SUP

DEC 2016

PROJECT ID: 8680-00-71

WITH: 8680-00-72,8998-00-24

COUNTY:

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
~~Section No. 8~~	~~Structure Plans~~
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 1038

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8680-00-71	WISC 2016503	1
8680-00-72		
8998-00-24	WISC 2016506	1

CITY OF SUPERIOR, BELKNAP STREET
BANKS AVENUE - HILL AVENUE
UTILITIES/ SUPERIOR , WATER, LIGHT, & POWER COMPANY
DOUGLAS COUNTY

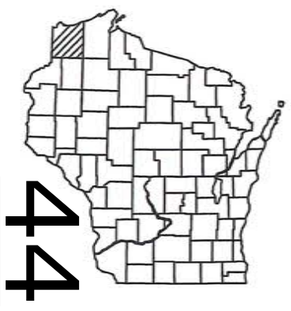
STATE PROJECT NUMBER
8680-00-72

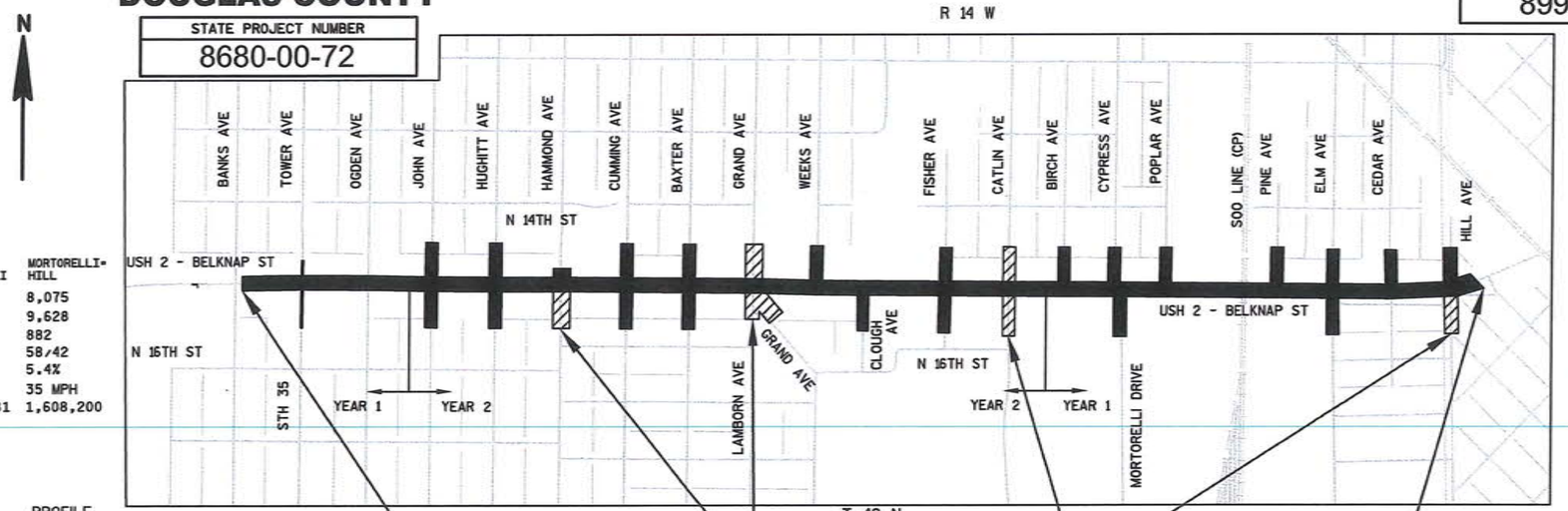
CITY OF SUPERIOR, BELKNAP STREET
BANKS AVENUE - HILL AVENUE
USH 2
DOUGLAS COUNTY

STATE PROJECT NUMBER
8680-00-71

CITY OF SUPERIOR
BELKNAP STREET SIDE STREETS
BANKS AVENUE - HILL AVENUE
LOCAL STREETS
DOUGLAS COUNTY

STATE PROJECT NUMBER
8998-00-24





DESIGN DESIGNATION			BANKS-GRAND	GRAND-MORTORELLI	MORTORELLI-HILL
A.A.D.T.	2017	=	17,183	15,325	8,075
A.A.D.T.	2037	=	19,230	17,878	9,628
D.H.V.		=	882	882	882
D.D.		=	58/42	58/42	58/42
T.		=	5.4%	5.4%	5.4%
DESIGN SPEED		=	35 MPH	35 MPH	35 MPH
ESALS		=	3,338,110	3,026,581	1,608,200

BEGIN PROJECT 8680-00-71
STA = 135+28.00
X=146418.164'
Y=305432.096'

END PROJECT 8680-00-71
STA = 210+18.00
X=152899.982'
Y=305383.496'

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

LAYOUT
SCALE 0 0.1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.419 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DOUGLAS COUNTY.

ACCEPTED FOR
CITY of SUPERIOR
DATE: 7/26/16

ORIGINAL PLANS PREPARED BY:
SHORT ELLIOTT HENDRICKSON, INC

WISCONSIN
JARROD S. STARREN
38465
EAU CLAIRE, WI
PROFESSIONAL ENGINEER
7-30-16

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor: WISDOT
Designer: STEPHANIE J. KING
Project Manager: BRENDAN D. DIRKES
Regional Examiner: ---- -----
Regional Supervisor: ANDREW STENSLAND

APPROVED FOR THE DEPARTMENT
DATE: 7/28/16 Cindy Stensland (Signature)

E

STANDARD ABBREVIATIONS

AGG	AGGREGATE
AECPRC	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
ASPH	ASPHALTIC
BM	BENCH MARK
CE	COMMERCIAL ENTRANCE
CL OR C/L OR ℄	CENTER LINE
△	CENTRAL ANGLE OR DELTA
CONC	CONCRETE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
DISCH	DISCHARGE
DWY	DRIVEWAY
EOR	END POINT OF RADIUS
ENT	ENTRANCE
FE	FIELD ENTRANCE
FO	FIBER OPTIC
CWT	HUNDREDWEIGHT
HDPE	HIGH DENSITY POLYTHENE PIPE
HYD	HYDRANT
INV	INVERT
IP	IRON PIPE ON PIN
L	LENGTH OF CURVE
LC	LONG CHORD OF CURVE
MOR	MID POINT OF RADIUS
NC	NORMAL CROWN
NOR	NORMAL
N.T.S.	NOT TO SCALE
PAVT	PAVEMENT
PE	PRIVATE ENTRANCE
PVRC	POINT OF VERTICAL REVERSE CURVE
QOR	QUARTER POINT OF RADIUS
R	RADIUS
RES	RESIDENCE OR RESIDENTIAL
R/W	RIGHT-OF-WAY
RDWY	ROADWAY
R/L OR ℄	REFERENCE LINE
SAN	SANITARY SEWER
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
SE	SUPERELEVATION RATE
TYP	TYPICAL
VAR	VARIABLE
VC	VERTICAL CURVE

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
SURVEY TIES
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL
STORM SEWER
SANITARY SEWER
WATERMAIN
PLANTING
PERMANENT SIGNING
LIGHTING
LIGHTING DETAILS
TRAFFIC SIGNAL PLAN
SEQUENCE OF OPERATIONS
PAVEMENT MARKING
TRAFFIC CONTROL
BUS DETOUR ROUTES
ALIGNMENT

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

LEGEND

- CONCRETE PAVEMENT
- BASE COURSE
- GRASS
- ASPHALT

GENERAL NOTES

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ALL UTILITIES WILL BE RELOCATED OR ADJUSTED BY THEIR OWNERS WHERE REQUIRED, MUNICIPAL WATER AND SANITARY SEWER ADJUSTMENTS WILL REQUIRE COORDINATION WITH THE CONTRACTOR.

THE ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE RIGHT OF WAY, AS SHOWN IN THE PLANS IS TO BE REMOVED. THE LOCATION AND AMOUNT WILL BE DETERMINED BY THE ENGINEER.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH TOPSOILED &HYDROSEEDED AS SHOWN IN THE PLANS. FINISHED SEEDED SURFACE SHALL BE 1-INCH BELOW THE TOP OF ADJACENT CONCRETE.

THE EXACT LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

CONSTRUCT INSIDE EDGE OF SIDEWALK .INCH HIGHER THAN THE TOP OF CURB, WHEN THEY ARE ADJACENT TO EACH OTHER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

TOP OF CASTING ELEVATIONS SHOWN FOR INLETS REFER TO THE NORMAL GUTTER FLOWLINE.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:

PAVEMENT THICKNESS (INCH)	LOWER (INCH)	NOM AGG SIZE (mm)	LOWER MIDDLE (INCH)	NOM AGG SIZE (mm)	MIDDLE (INCH)	NOM AGG SIZE (mm)	UPPER (INCH)	NOM AGG SIZE (mm)
4	2						2	
5	3						2	
6	4						2	
7	2				2.5		2.5	
10	3		2.5		2.5		2	

CURB RAMP TYPES ARE SHOWN ON THE PLAN AND PROFILE SHEETS.

UTILITY CONTACTS

CENTURYLINK - COMMUNICATION LINE
PO BOX 181
SOLON SPRINGS, WISCONSIN 54873
TELEPHONE: 715-378-2131
TELEPHONE- CELL: 715-566-3879
ATTENTION: ALAN NICKELL
EMAIL: ALAN.NICKELL@CENTURYLINK.COM

NORVADO - COMMUNICATION LINE
43750 USH 63
PO BOX 67
CABLE, WISCONSIN 54821
TELEPHONE: 715-798-7123/715-580-8123
ATTENTION: GUY FOLSOM
EMAIL: GFOLSOM@NORVADO.COM

CITY OF SUPERIOR
PUBLIC WORKS
51 EAST FIRST ST
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715.394-0392 EXT.1015
ATTENTION: ERIN ABRAMSON
EMAIL: ABRAMSONE@CI.SUPERIOR.WI.US

COMMUNITY AREA NETWORK (CAN)
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715-395-7232
ATTENTION: DAN SHEA
EMAIL: SHEADAN@CI.SUPERIOR.WI.US

SUPERIOR WATER, LIGHT & POWER CO.
2915 HILL AVENUE
P.O. BOX 519
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715-395-6315

TELEPHONE: 715.393-395-6210/218-220-8655
ATTENTION: JOSH GOUTERMONT - ELECTRIC
EMAIL: JGOUTERMONT@SWLP.COM

TELEPHONE: 715-395-6317/218-340-9408
ATTENTION: KEVIN DOUVILLE - GAS
EMAIL:KDOUVILLE@SWLP.COM

TELEPHONE: 715-395-6288
ATTENTION: JAMIE MEHLE - WATER
EMAIL: JMEHLE@SWLP.COM

EVENTIS TELECOM, DBA HICKORY TECH
4960 MILLER TRUNK HWY SUITE 500
HERMANTOWN MN, 55811
TELEPHONE:218-740-6146/218-393-9060
ATTENTION: JEFF BRIGHT
EMAIL:JEFFBRIGHT@CONSOLIDATED.COM

CHARTER COMMUNICATIONS - COMMUNICATION LINE
640 GARFIELD AVE.
DULUTH, MN 55802
TELEPHONE: 218-529-8042
ATTENTION: JOHN QUADE
EMAIL: JOHN.QUADE@CHARTER.COM

CALUMET - SUPERIOR REFINERY - GAS/PETROLEUM
2407 STINSON AVE
PO BOX 2066
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715-398-8264/218-340-9781
ATTENTION: SAMUEL TALARICO
EMAIL:SAMUEL.TALARICO@CALUMETSPECIALTY.COM

MERIT NETWORK - COMMUNICATION LINE
PO BOX 885
IRON MOUNTAIN, MI 49801
TELEPHONE: 906-282-3802
ATTENTION: RANDY SIMMS
EMAIL: RANDY.SIMMS@CCISYSTEMS.COM

WINDSTREAM KDL,INC-COMMUNICATION
13935 BISHOPS DRIVE
BROOKFIELD WI, 53005
TELEPHONE:608-512-5587
ATTENETION:DENNIS RUESS
EMAIL: DENNIS.RUESS@WINDSTREAM.COM

RAILROAD CONTACTS

CANADIAN PACIFIC RAILWAY
"CALL BEFORE YOU DIG"
1-800-291-0741

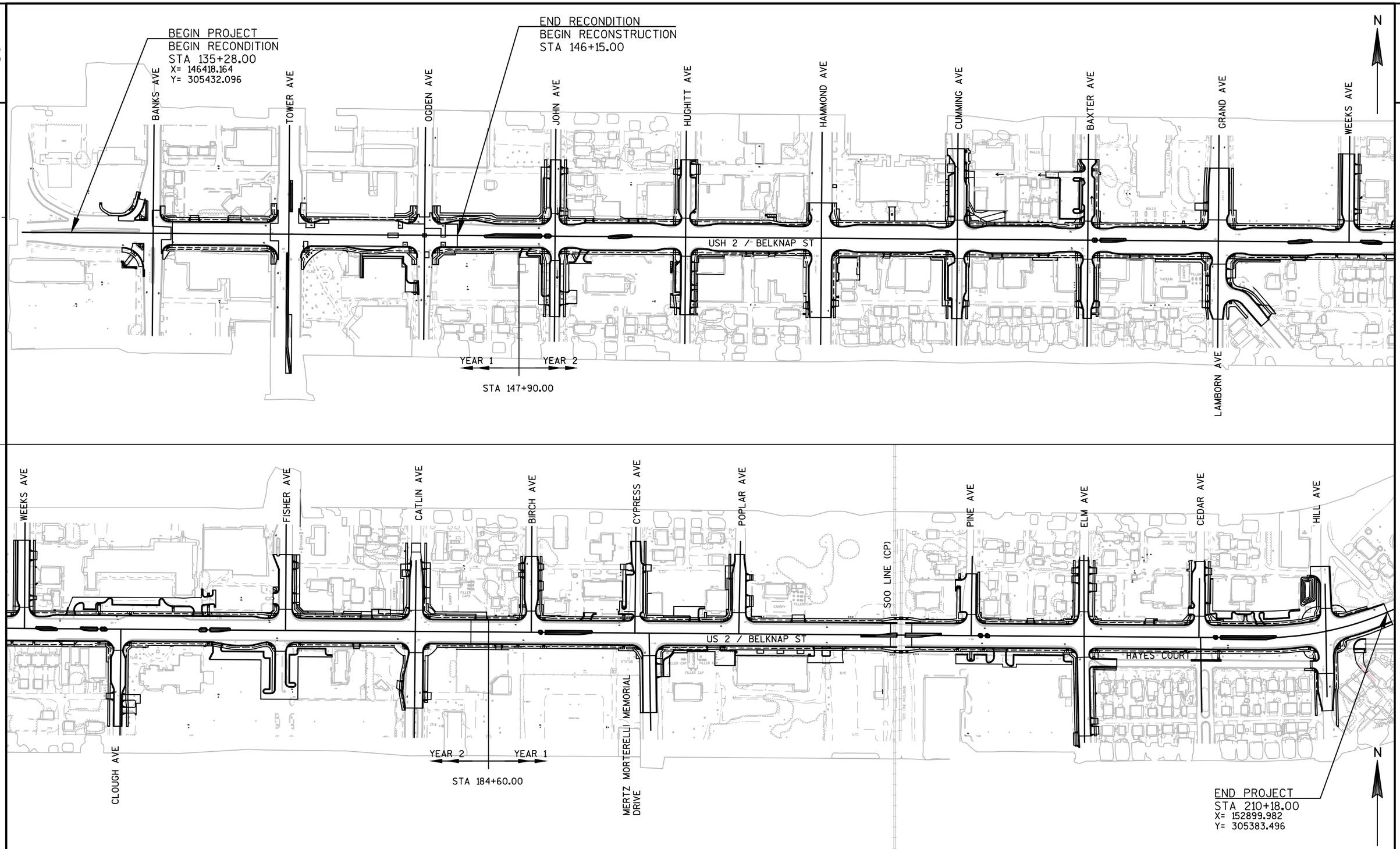
CANADIAN PACIFIC RAILWAY D/B/A SOO LINE
CANADIAN PACIFIC PLAZA
120 SOUTH 6TH STREET, SUITE 900
MINNEAPOLIS, MN 55402
TELEPHONE:612-330-4555
ATTN: JIM KRIEGER
E-MAIL: JIM.KRIEGER@CPR.CA

DESIGN CONTACT

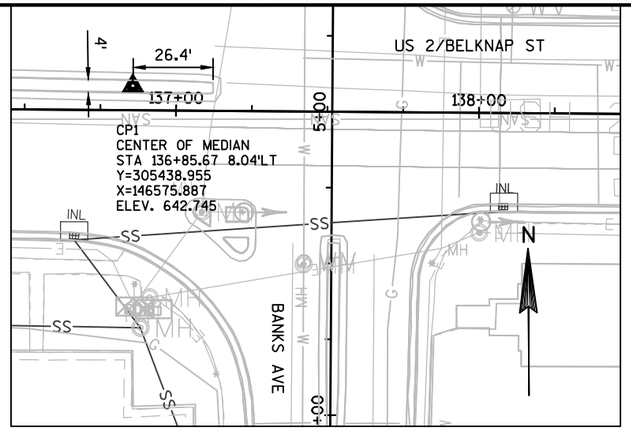
SEH INC.
10 NORTH BRIDGE STREET
CHIPPEWA FALLS, WI 54729
TELEPHONE: 715.720.6261
ATTENETION: JARROD STARREN
EMAIL: JSTARREN@SEHINC.COM

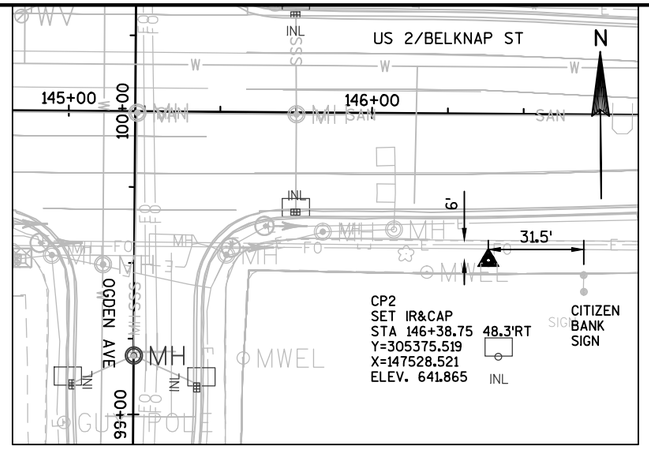
DNR CONTACT

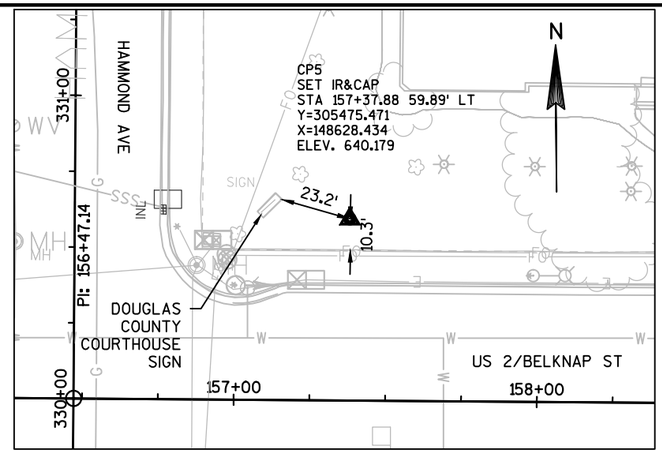
STATE OF WISCONSIN
NORTHWEST DISTRICT
HWY 70 WEST
P.O. BOX 309
SPOONER, WI 54801
TELEPHONE: 715.635.4229
ATTENTION: AMY CRONK
EMAIL: AMY.CRONK@WISCONSIN.GOV

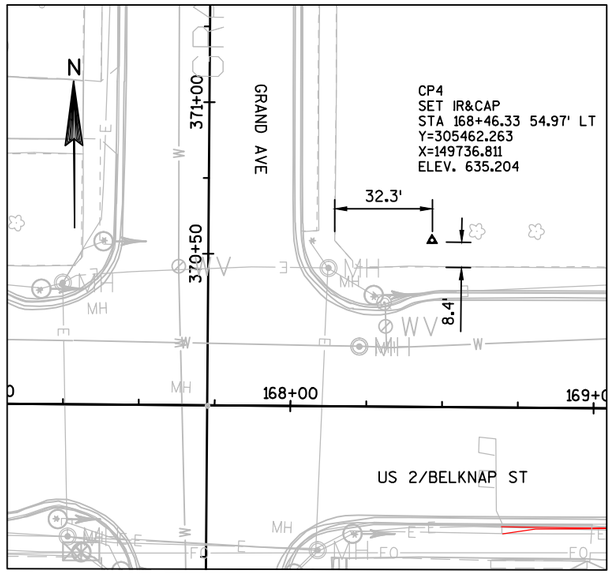


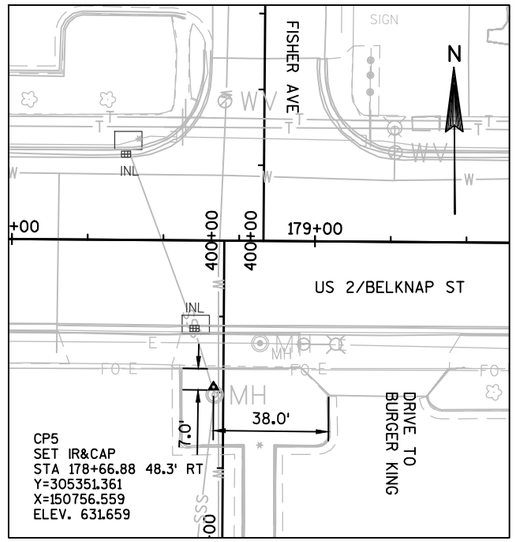
PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PROJECT OVERVIEW	SHEET 3	E

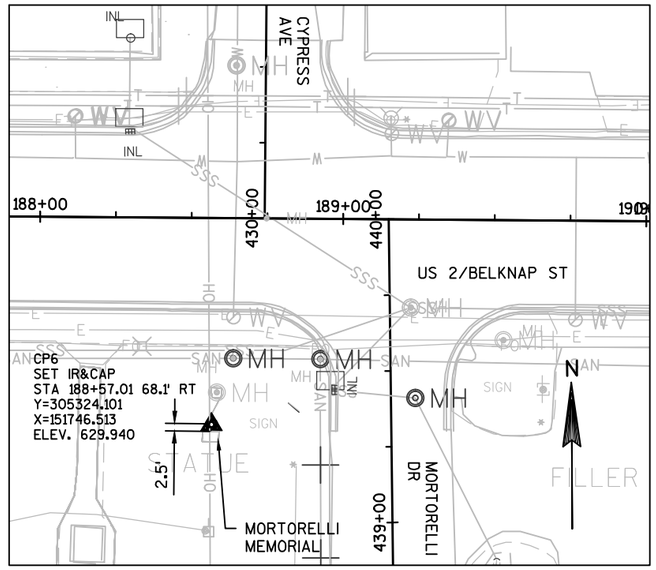


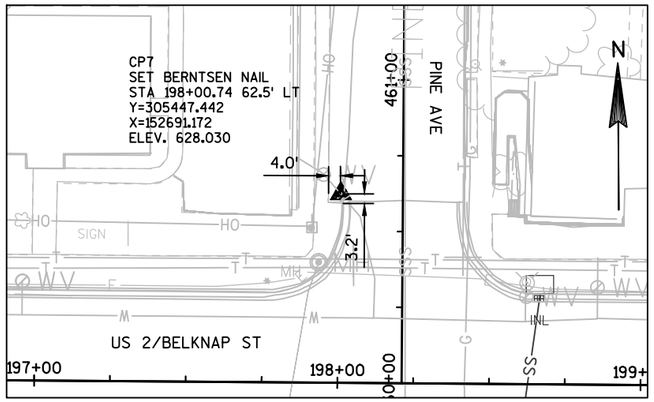


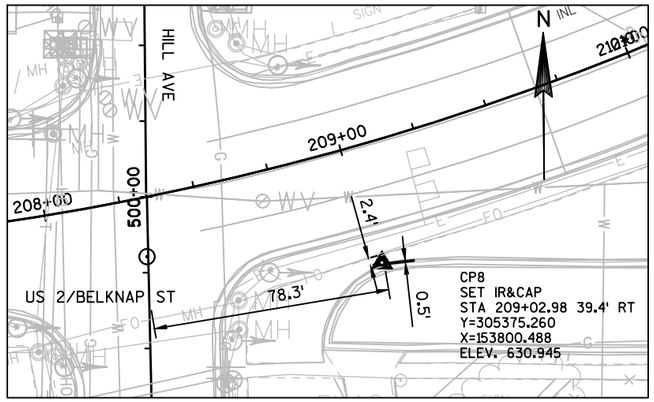




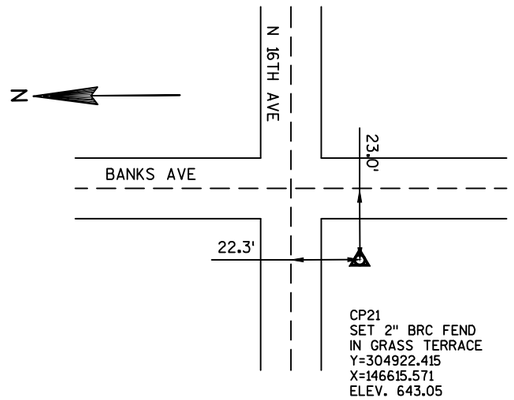




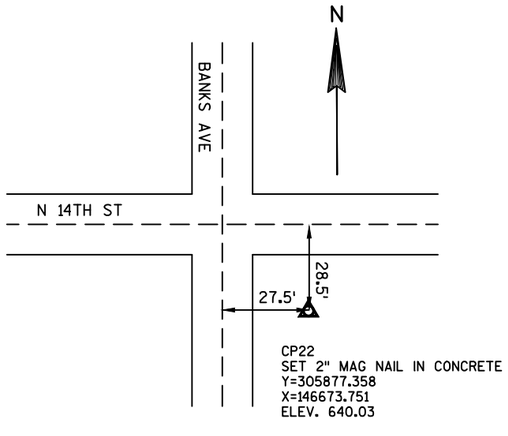




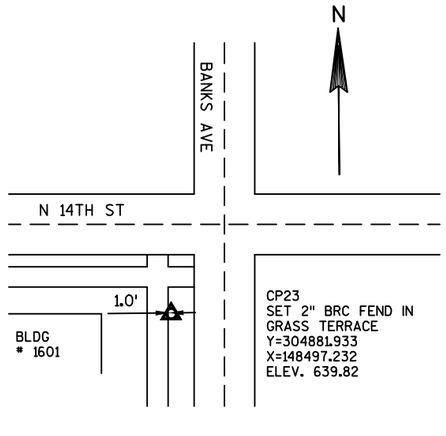
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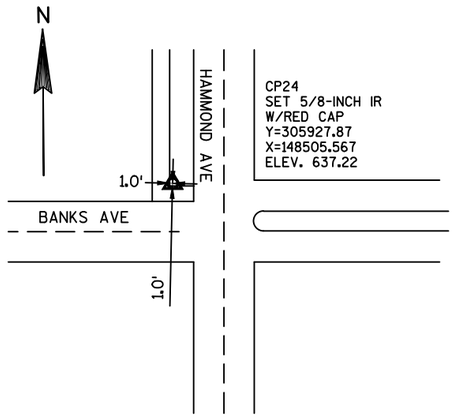
CP21
SET 2" BRC FEND
IN GRASS TERRACE
Y=304922.415
X=146615.571
ELEV. 643.05



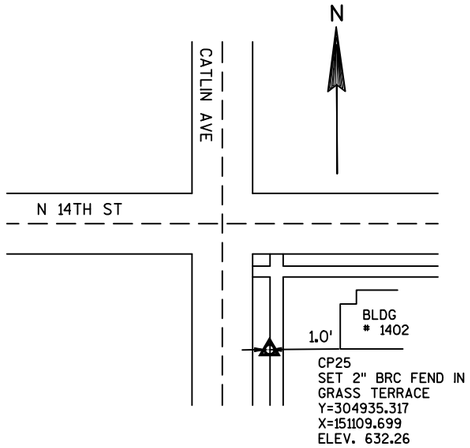
CP22
SET 2" MAG NAIL IN CONCRETE
Y=305877.358
X=146673.751
ELEV. 640.03



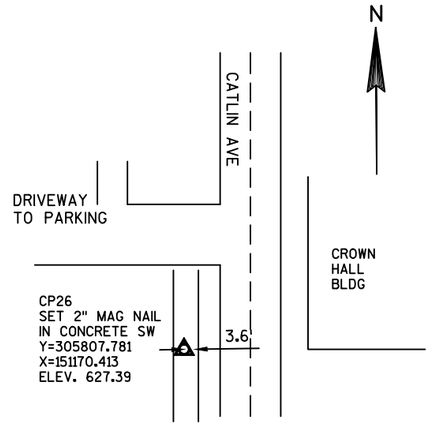
CP23
SET 2" BRC FEND IN
GRASS TERRACE
Y=304881.933
X=148497.232
ELEV. 639.82



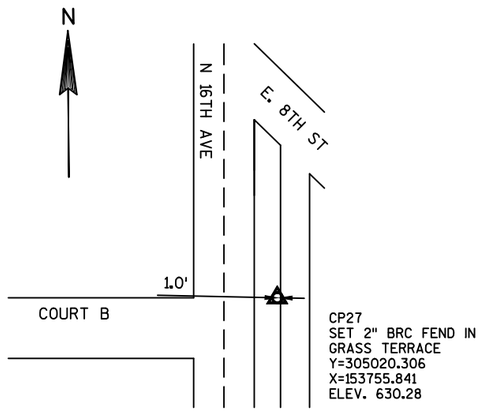
CP24
SET 5/8-INCH IR
W/RED CAP
Y=305927.87
X=148505.567
ELEV. 637.22



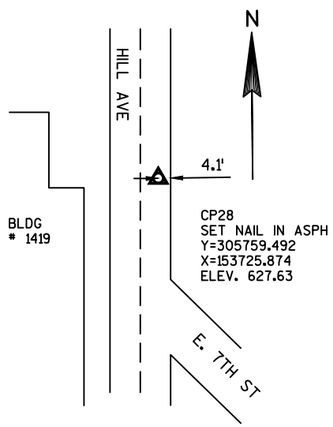
CP25
SET 2" BRC FEND IN
GRASS TERRACE
Y=304935.317
X=151109.699
ELEV. 632.26



CP26
SET 2" MAG NAIL
IN CONCRETE SW
Y=305807.781
X=151170.413
ELEV. 627.39

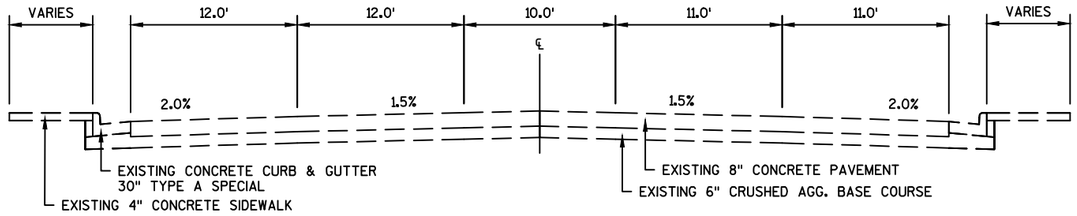


CP27
SET 2" BRC FEND IN
GRASS TERRACE
Y=305020.306
X=153755.841
ELEV. 630.28

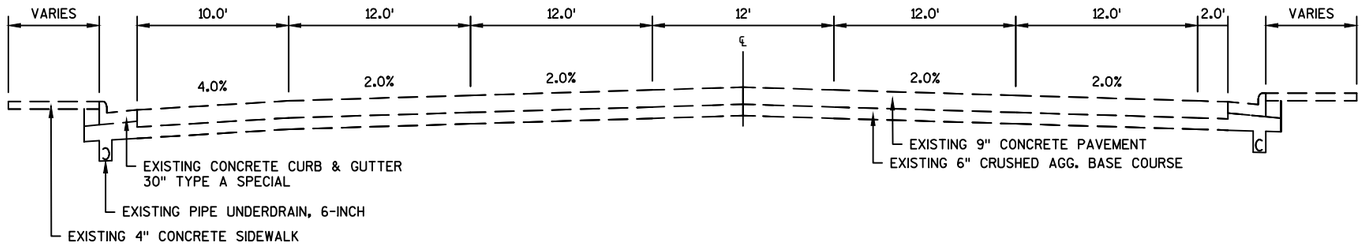


CP28
SET NAIL IN ASPH
Y=305759.492
X=153725.874
ELEV. 627.63

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	SURVEY TIES	SHEET 5	E

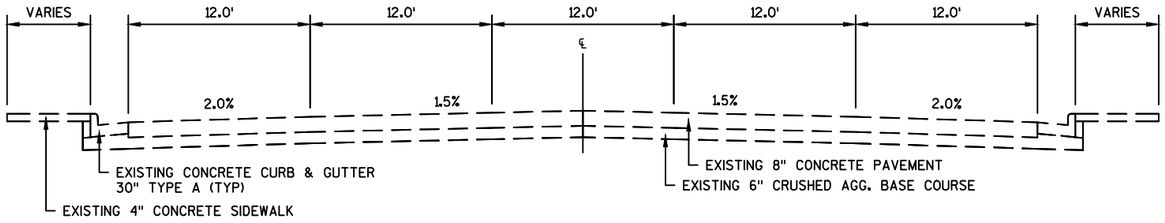


US 2 EXISTING TYPICAL SECTION
OGDEN TO JOHN
STA. 145+22 TO STA. 148+92



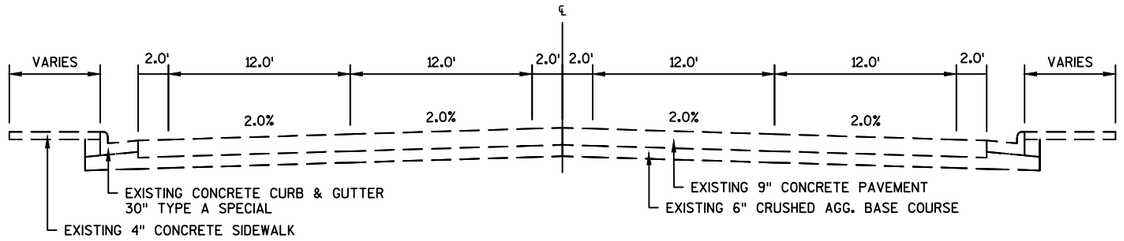
US 2 EXISTING TYPICAL SECTION
TOWER TO OGDEN
STA. 141+37 TO STA. 145+22

US 2 EXISTING TYPICAL SECTION
BANKS TO TOWER
STA. 138+07 TO STA. 141+37

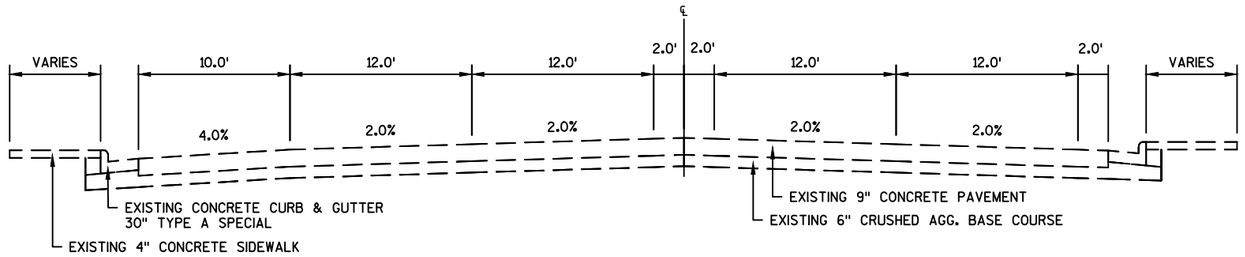


US 2 EXISTING TYPICAL SECTION
BANKS TO TOWER
STA. 137+52 TO STA. 138+07

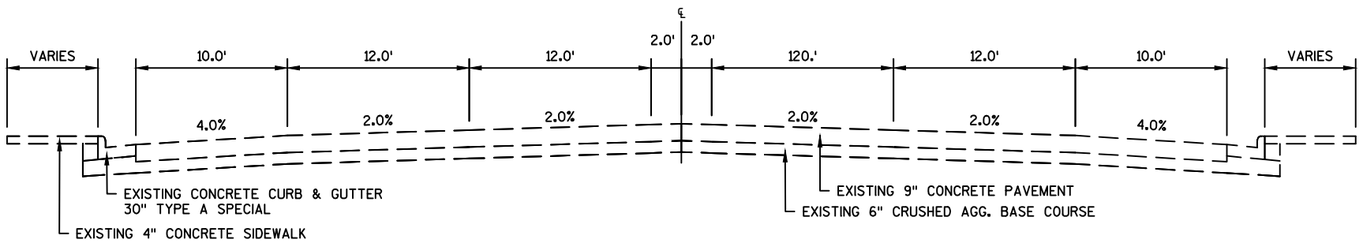
PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP STREET	COUNTY:DOUGLAS	PLAN: EXISTING ML TYPICAL SECTIONS	SHEET 6	E



USH 2 EXISTING TYPICAL SECTION
FISHER TO HILL
STA. 178+84 TO STA. 209+68

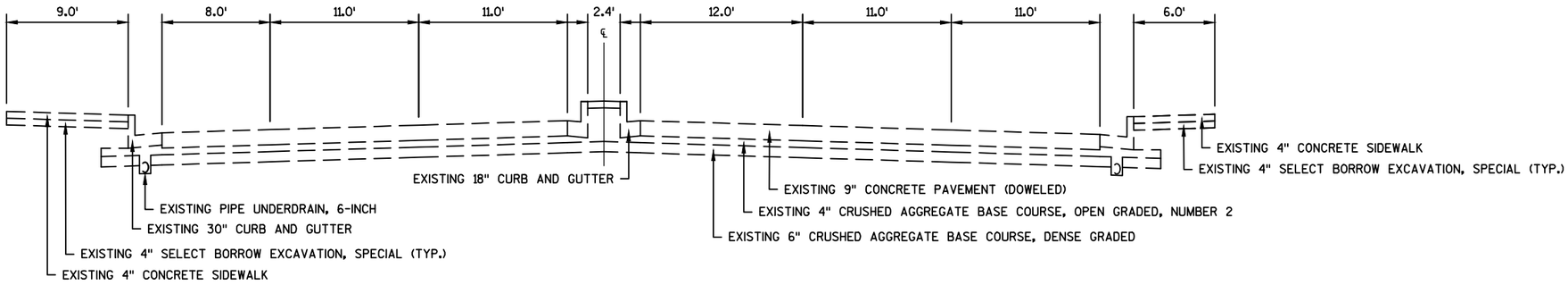


USH 2 EXISTING TYPICAL SECTION
WEEKS TO FISHER
STA. 172+44 TO STA. 176+18

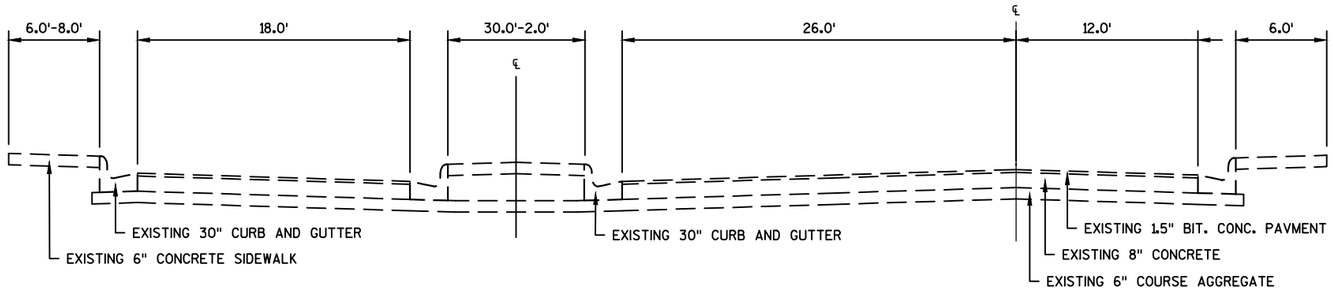


USH 2 EXISTING TYPICAL SECTION
JOHN TO WEEKS
STA 148+92 TO STA 172+44

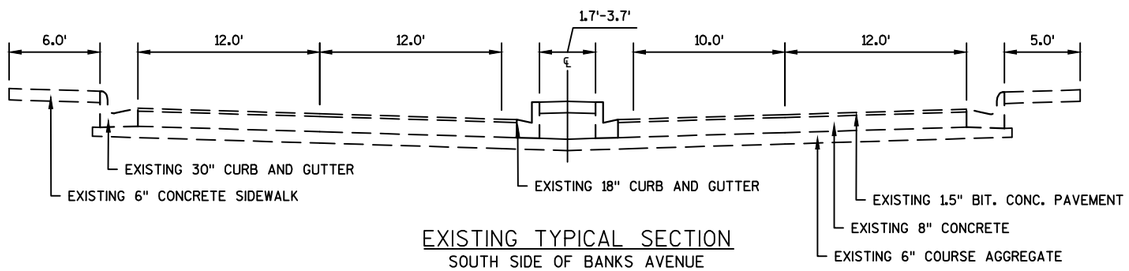
2



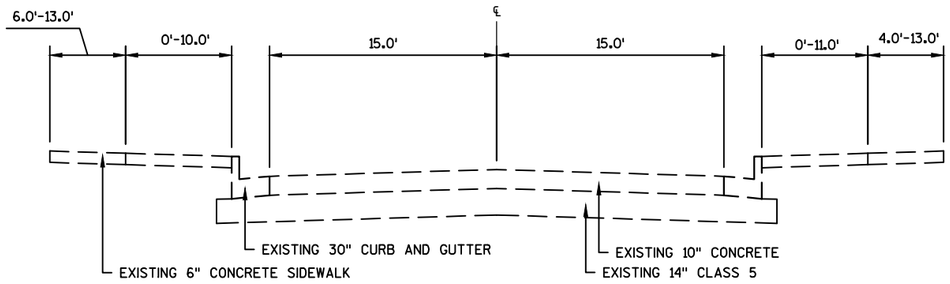
EXISTING TYPICAL SECTION
SOUTH SIDE OF TOWER
STA 685+75 TO STA 687+50



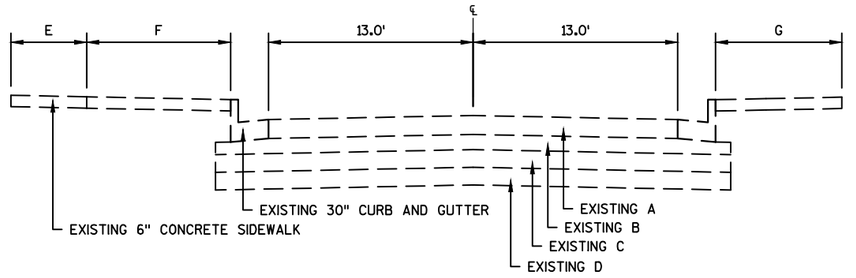
EXISTING TYPICAL SECTION
NORTH SIDE OF BANKS AVENUE
STA 3+75 TO STA 4+22



EXISTING TYPICAL SECTION
SOUTH SIDE OF BANKS AVENUE
STA 1+94 TO STA 2+85

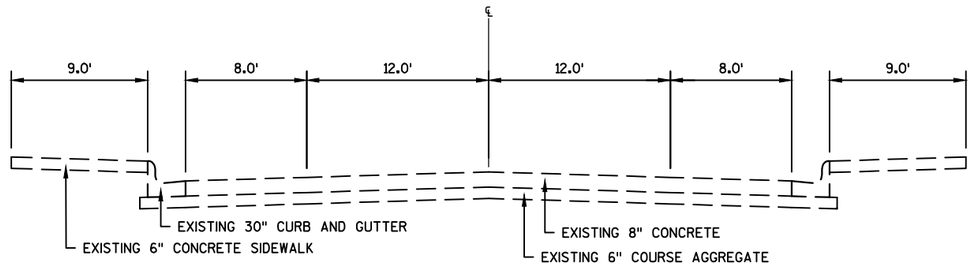


EXISTING TYPICAL SECTION
JOHN AVENUE
STA 298+90 TO STA 302+03

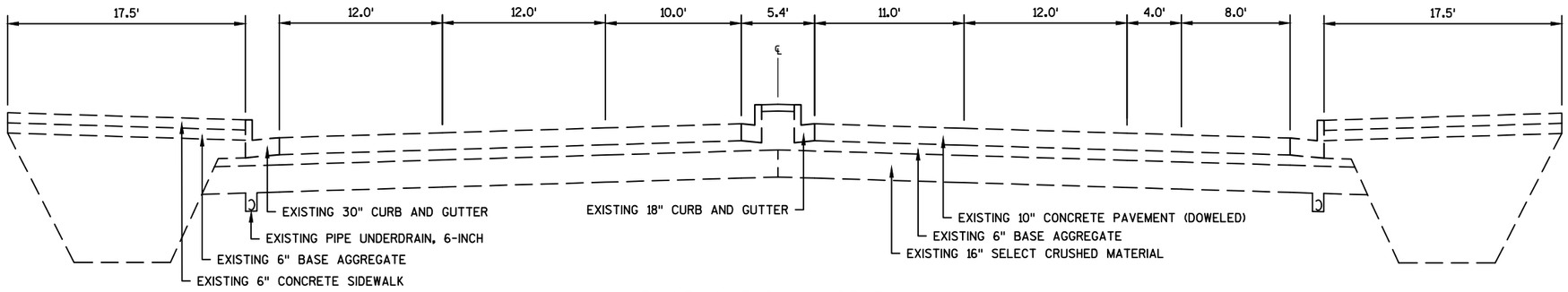


EXISTING TYPICAL SECTION
HUGHITT AVENUE

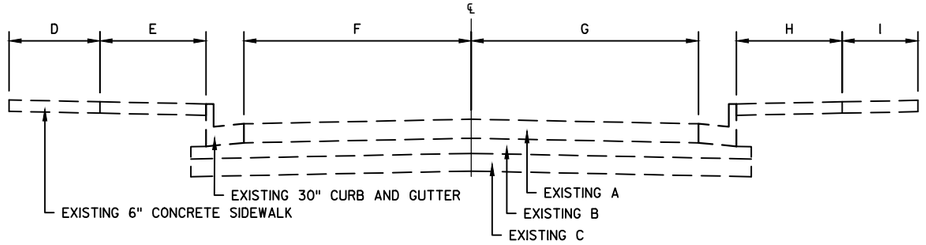
	A	B	C	D	E	F	G
STA 308+93 TO STA 339+40	5" ASPHALT	4" BASE COURSE	4" CONCRETE	5" BASE COURSE	6.0'	9.0'	15.0'
STA 309+40 TO STA 310+59	9" CONCRETE	6" CRUSHED BASE AGGREGATE			6.0'-14.0'	9.0'-0.0'	13.0'-18.0'
STA 310+59 TO STA 310+83	5.5" ASPHALT	10" BASE COURSE			5.0'	10.0'	15.0'



EXISTING TYPICAL SECTION
OGDEN AVENUE
STA 98+99 TO STA 101+00

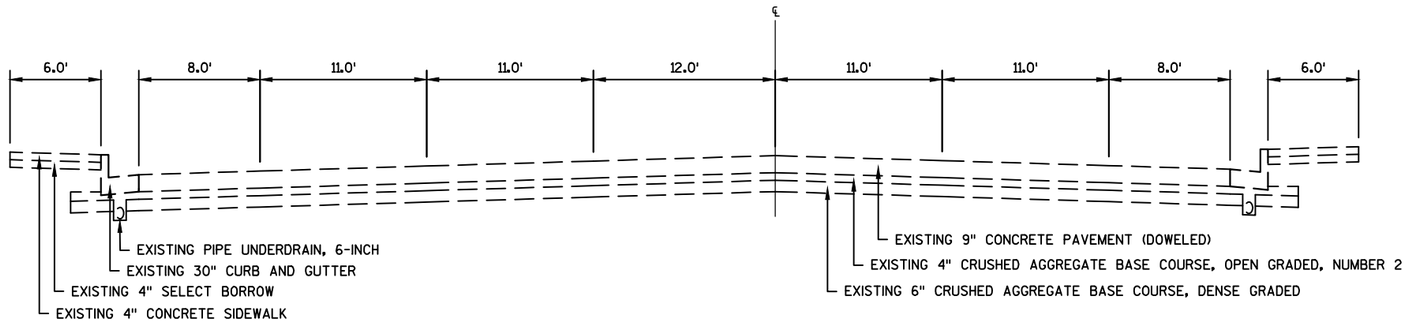


EXISTING TYPICAL SECTION
NORTH SIDE OF TOWER
STA 688+70 TO STA 689+34

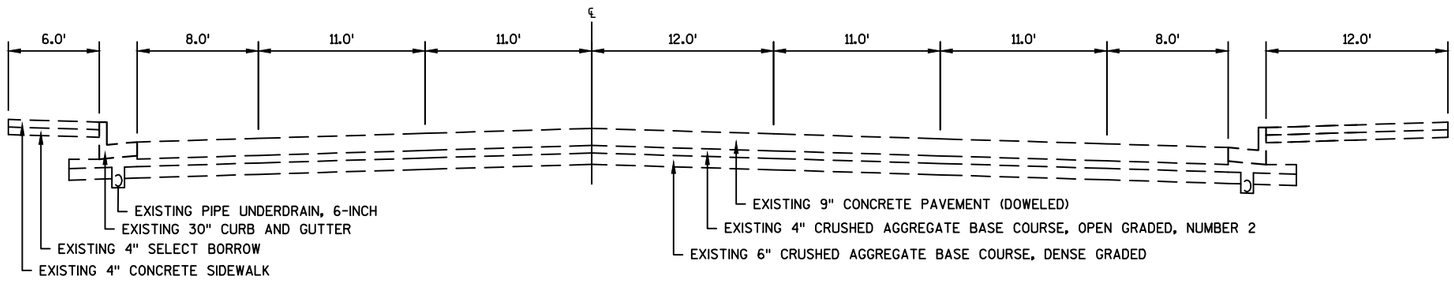


EXISTING TYPICAL SECTION
CUMMING AVENUE

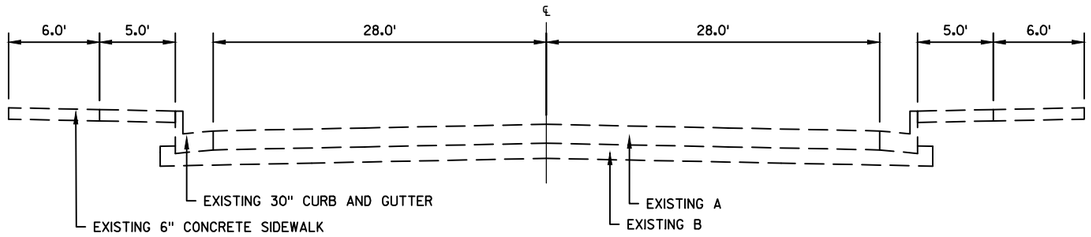
	A	B	C	D	E	F	G	H	I
STA 339+16 TO STA 339+40	4.5" ASPHALT	5" CONCRETE	5" BASE COURSE	6.0'	9.0'	13.0'	13.0'	10.0'	6.0'
STA 339+40 TO STA 340+50	9" CONCRETE	6" CRUSHED BASE AGGREGATE		6.0'-15.0'	8.0'-0.0'	13.0'-18.0'	13.0'-18.0'	0.0'-3.0'	0.0'
STA 340+50 TO STA 340+94	5.5" ASPHALT	11" BASE COURSE		6.0'	2.0'	18.0'-20.0'	18.0'	0.0'	10.0'



EXISTING TYPICAL SECTION
NORTH SIDE OF HAMMOND
STA 330+00 TO STA 330+83

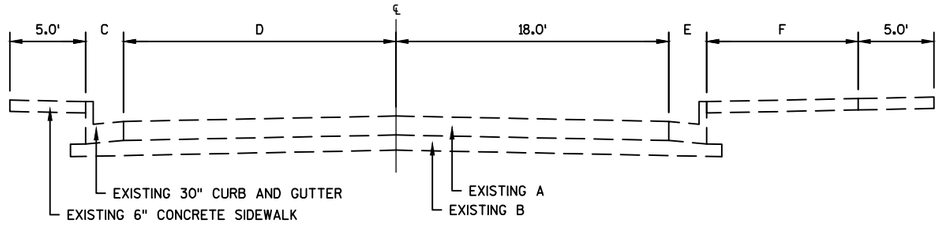


EXISTING TYPICAL SECTION
SOUTH SIDE OF HAMMOND
STA 329+10 TO STA 330+00



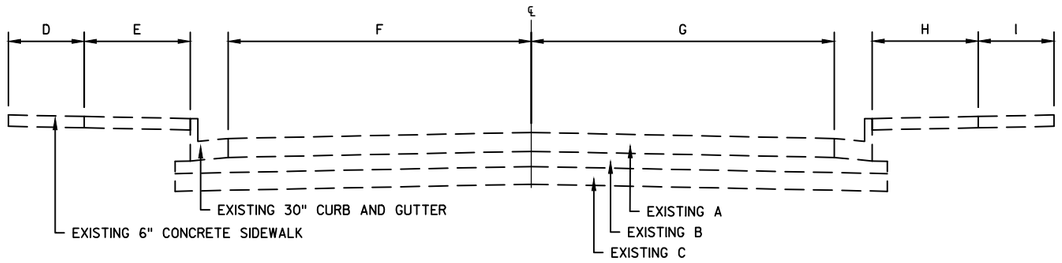
EXISTING TYPICAL SECTION
GRAND AVENUE

	A	B
STA 370+00 TO STA 370+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE
STA 370+60 TO STA 370+83	4.5" ASPHALT	12" BASE COURSE



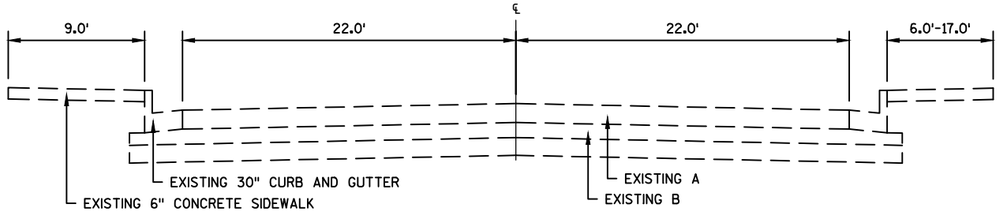
EXISTING TYPICAL SECTION
WEEKS AVENUE

	A	B	C	D	E	F
STA 380+00 TO STA 380+58	9" CONCRETE	6" CRUSHED BASE AGGREGATE	2.5'	12.0'	2.5'	0.0'-8.0'
STA 380+58 TO STA 380+66	6.25" ASPHALT	5.5" CONCRETE	0.0'	12.0'-20.0'	0.0'	8.0'-10.0'



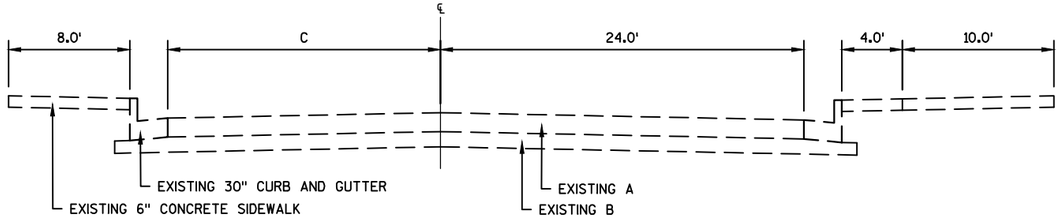
EXISTING TYPICAL SECTION
BAXTER AVENUE

	A	B	C	D	E	F	G	H	I
STA 349+17 TO STA 349+40	2.5" ASPHALT	9.5" CONCRETE	2" BASE COURSE	5.0'	5.0'	17.0'	17.0'	0.0'	5.0'
STA 349+40 TO STA 350+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE		5.0'-13.0'	5.0'-0.0'	17.0'-20.0'	17.0'-20.0'	0.0'-3.0'	0.0'
STA 350+60 TO STA 350+83	4.5" ASPHALT	5" CONCRETE		6.0'	2.0'	20.0'	20.0'	3.0'	5.0'



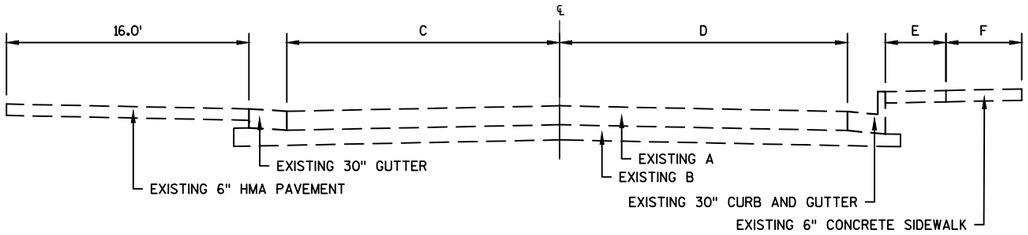
EXISTING TYPICAL SECTION
LAMBORN AVENUE

	A	B
STA 358+60 TO STA 300+00	9" CONCRETE	6" CRUSHED BASE AGGREGATE



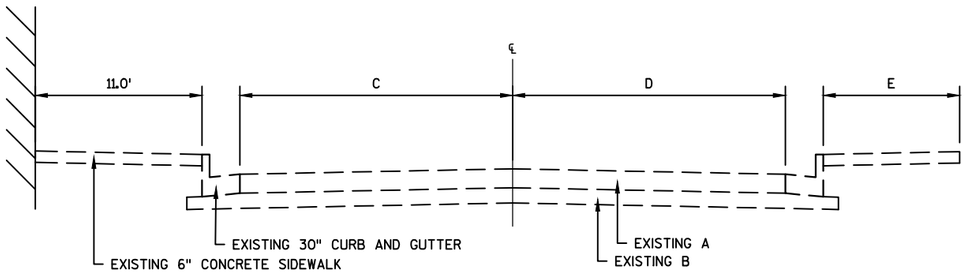
EXISTING TYPICAL SECTION
SOUTH SIDE OF CATLIN AVENUE

	A	B	C
STA 407+73 TO STA 409+41	7" ASPHALT	10" BASE COURSE	15.0'-24.0'
STA 409+41 TO STA 410+00	9" CONCRETE	6" CRUSHED BASE AGGREGATE	15.0'



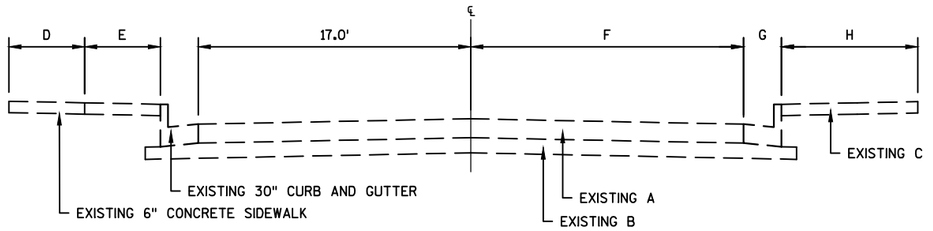
EXISTING TYPICAL SECTION
NORTH SIDE OF CATLIN AVENUE

	A	B	C	D	E	F
STA 410+00 TO STA 410+59	9" CONCRETE	6" CRUSHED BASE AGGREGATE	18.0'	19.0'	0.0'	10.0'
STA 410+59 TO STA 412+04	7" ASPHALT	24" SAND AND GRAVEL	18.0'-16.0'	19.0'-12.0'	3.0'-10.0'	5.0'



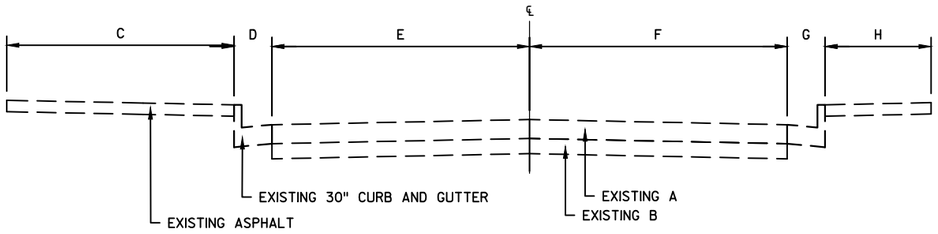
EXISTING TYPICAL SECTION
CLOUGH AVENUE

	A	B	C	D	E
STA 389+16 TO STA 389+40	2.5" ASPHALT	5.5" CONCRETE	17.0'	9.0'	5.0'
STA 489+40 TO STA 390+00	9" CONCRETE	6" CRUSHED BASE AGGREGATE	20.0'-26.0	0.0'	0.0'



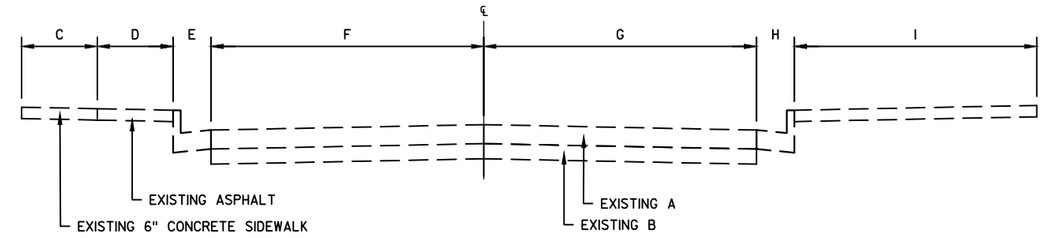
EXISTING TYPICAL SECTION
FISHER AVENUE

	A	B	C	D	E	F	G	H
STA 400+00 TO STA 400+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE	6" CONCRETE SIDEWALK	0.0'	8.0'	17.0'	2.5'	9.0'
STA 400+60 TO STA 400+77	6.75" ASPHALT	11" BASE COURSE	6" ASHALT	5.0'	5.0'	20.0'	0.0'	15.0'



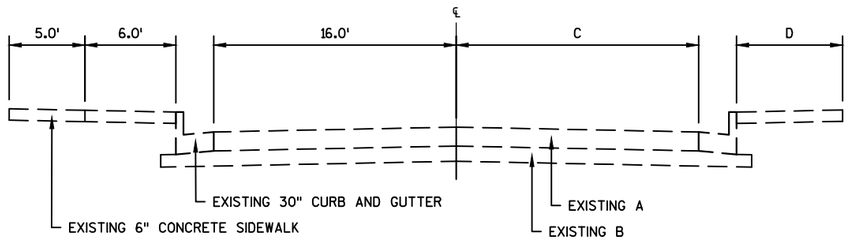
EXISTING TYPICAL SECTION
CYPRESS AVENUE

	A	B	C	D	E	F	G	H
STA 430+00 TO STA 430+59	9" CONCRETE	6" CRUSHED BASE AGGREGATE	15.0'	2.5"	17.0'	17.0'	2.5'	8.0'
STA 430+59 TO STA 431+81	6" ASPHALT	8" BASE COURSE	15.0'-24.0'	0.0'	17.0'-13.0'	17.0'-13.0'	0.0'	7.0'-14.0'



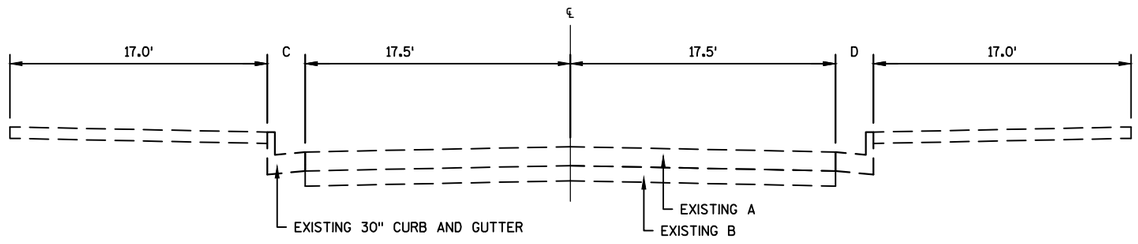
EXISTING TYPICAL SECTION
POPLAR AVENUE

	A	B	C	D	E	F	G	H	I
STA 450+00 TO STA 450+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE	10.0'	0.0'	2.5'	18.0'	18.0'	2.5'	14.0'
STA 450+60 TO STA 450+84	9" ASPHALT	7" CONCRETE	5.0'	5.0'-7.0'	0.0'	18.0'-19.0'	18.0'-19.0'	0.0'	16.0'



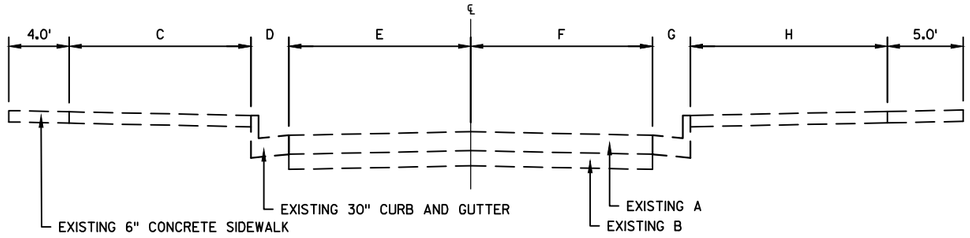
EXISTING TYPICAL SECTION
BIRCH AVENUE

	A	B	C	D
STA 420+00 TO STA 420+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE	16.0'	10.0'
STA 420+60 TO STA 420+82	6.5" ASPHALT	4.5" CONCRETE	16.0'-18.0'	7.0'



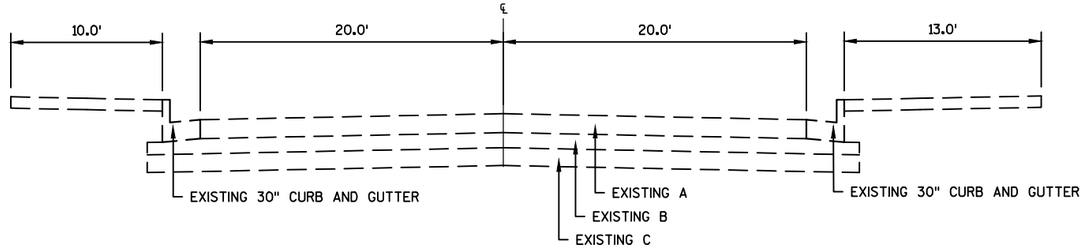
EXISTING TYPICAL SECTION
MORTORELLI MEMORIAL DRIVE

	A	B	C	D
STA 438+66 TO STA 4439+30	4.5" ASPHALT	13" BASE COURSE	0.0'	0.0'
STA 439+30 TO STA 440+00	9" CONCRETE	6" CRUSHED BASE AGGREGATE	2.5'	2.5'



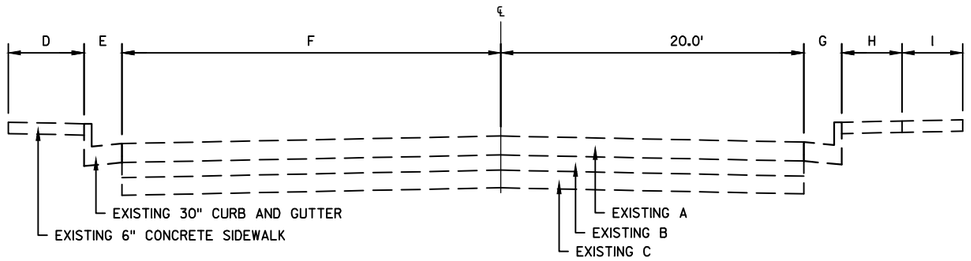
EXISTING TYPICAL SECTION
NORTH SIDE OF ELM AVENUE

	A	B	C	D	E	F	G	H
STA 470+00 TO STA 470+59	9" CONCRETE	6" CRUSHED BASE AGGREGATE	3.0'-7.0'	2.5"	19.0'	19.0'	2.5'	3.0'-7.0'
STA 470+59 TO STA 471+78	5" ASPHALT	6.5" CONCRETE	7.0'-12.0'	0.0'	19.0'-12.0'	19.0'-12.0'	0.0'	7.0'-14.0'



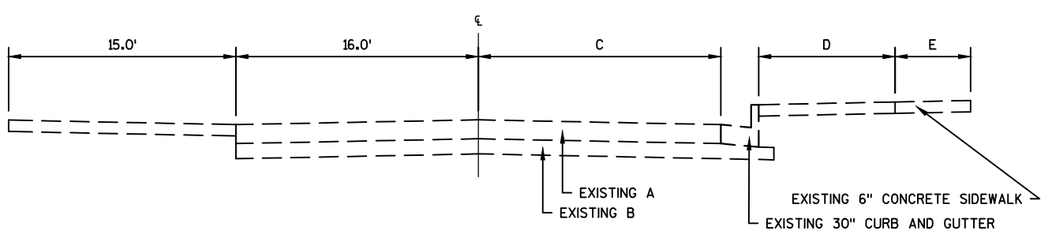
EXISTING TYPICAL SECTION
SOUTH SIDE OF CEDAR AVENUE

	A	B	C
STA 489+34 TO STA 489+50	2.5" ASPHALT	6" CONCRETE	15.5" BASE COURSE
STA 489+50 TO STA 490+00	9" CONCRETE	6" CRUSHED BASE AGGREGATE	



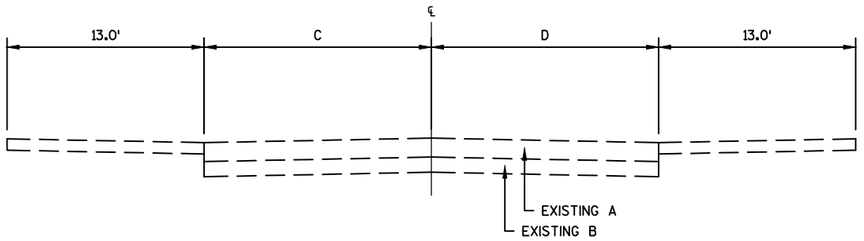
EXISTING TYPICAL SECTION
PINE AVENUE

	A	B	C	D	E	F	G	H	I
STA 460+00 TO STA 460+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE		9.0'	2.5"	20.0'	0.0'	2.5'	9.0'
STA 460+60 TO STA 460+84	5.75" ASPHALT	5" CONCRETE	3" BASE COURSE	5.0'	0.0'	25.0	0.0'-4.0'	0.0'	4.0'-9.0'



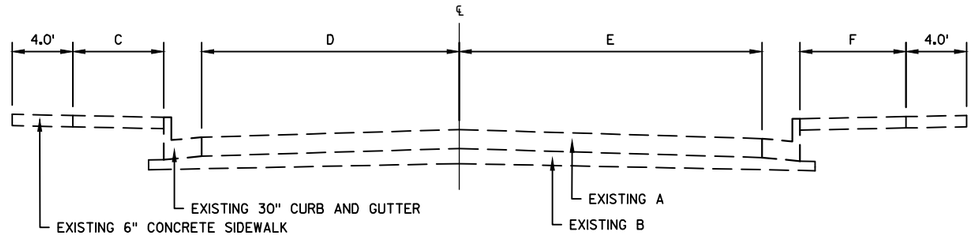
EXISTING TYPICAL SECTION
SOUTH SIDE OF ELM AVENUE

	A	B	C	D	E
STA 469+02 TO STA 469+40	6.5" ASPHALT	15.5" BASE COURSE	16.0'	9.0'	5.0'
STA 469+40 TO STA 470+00	9" CONCRETE	6" CRUSHED BASE AGGREGATE	16.0'-26.0'	0.0'	0.0'



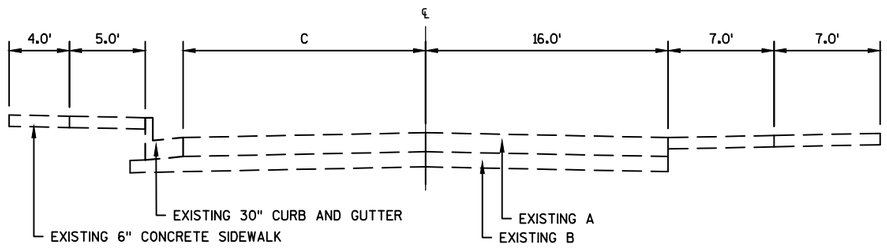
EXISTING TYPICAL SECTION
NORTH SIDE OF HILL AVENUE

	A	B	C	D
STA 500+00 TO STA 500+68	9" CONCRETE	6" CRUSHED BASE AGGREGATE	15.0'-20.0'	15.0'-20.0'
STA 500+68 TO STA 501+31	4" ASPHALT	2.67' SAND		



EXISTING TYPICAL SECTION
SOUTH SIDE OF HILL AVENUE

	A	B	C	D	E	F
STA 497+83 TO STA 498+94			0.0'-18.0'	26.0'-13.0'	20.0'-13.0'	4.0'-13.0'
STA 498+94 TO STA 500+00	8" CONCRETE	7.5" COURSE BASE AGGREGATE	0.0'-7.0'	20.0'-13.0'	20.0'	0.0'-4.0'



EXISTING TYPICAL SECTION
NORTH SIDE OF CEDAR AVENUE

	A	B	C
STA 480+00 TO STA 480+60	9" CONCRETE	6" CRUSHED BASE AGGREGATE	17.0'
STA 480+60 TO STA 481+66	3.5" ASPHALT	8" BASE COURSE	17.0'-22.0'

CROWN TRANSITION POINTS

Station	Left	Right	Remarks
BOP	-2.00%	-2.00%	Normal Crown
146+15.34	-2.00%	-2.00%	Begin Taper
146+51.89	2.00%	-2.00%	End Taper
148+57.91	2.00%	-2.00%	Begin Taper
148+92.03	-2.00%	-2.00%	Normal Crown
149+26.15	-2.00%	2.00%	End Taper
205+33.62	-2.00%	2.00%	Begin Taper
206+23.35	-2.00%	-2.00%	End Taper
EOP	-2.00%	-2.00%	Normal Crown

F.

NOTES:

① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

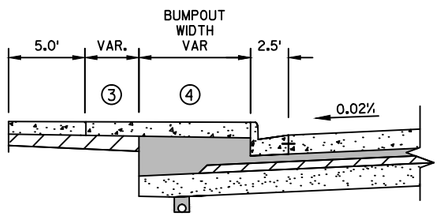
IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

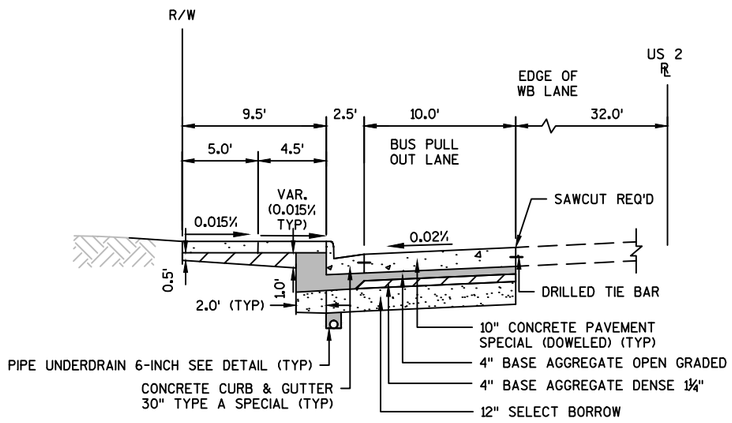
PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

② TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.

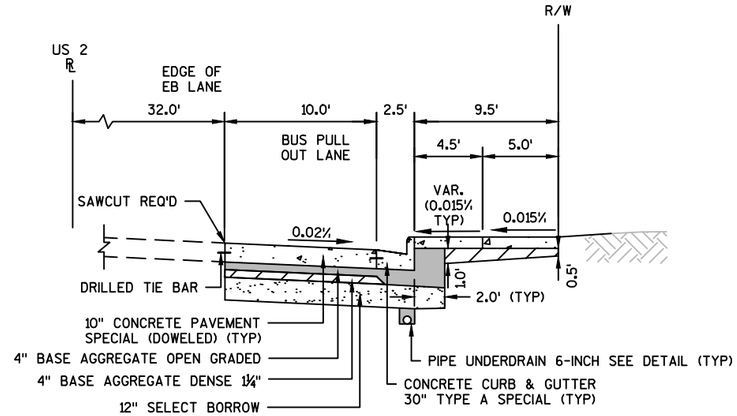
③ MAINTAIN ALIGNMENT OF SUBCUT OFFSET FROM ℄ THROUGH BUMPOUTS.

④ MAINTAIN ALIGNMENT OF PIPE UNDERDRAIN OFFSET FROM ℄ THROUGH BUMPOUTS - CONNECT TO INLET STRUCTURE AS REQUIRED.



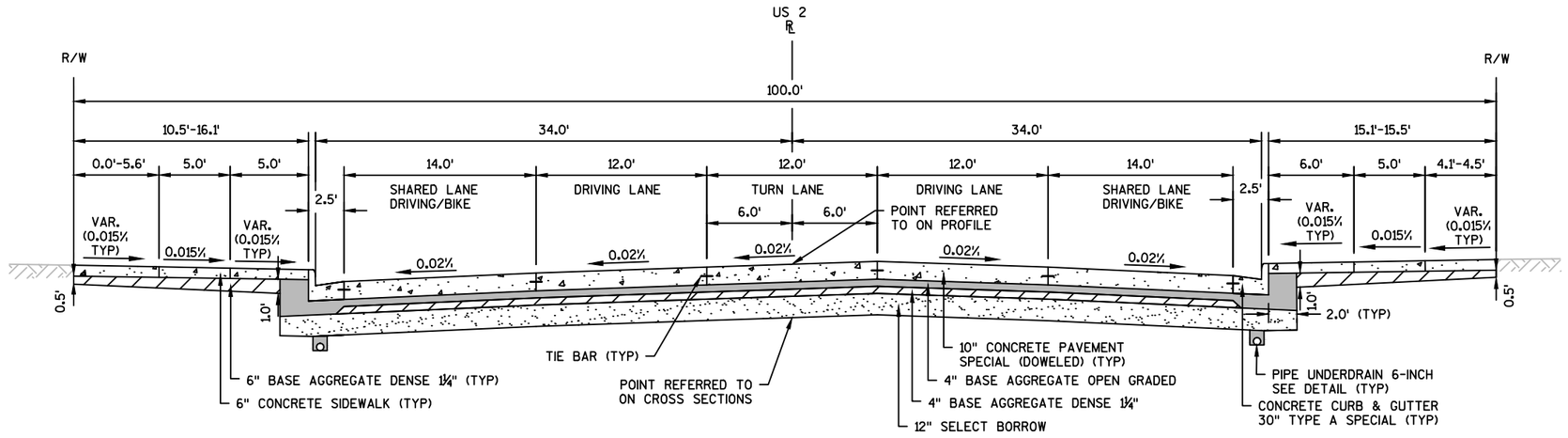


TYPICAL FINISHED SECTION (BUS PULL OUT, LEFT)
US 2
OGDEN AVENUE TO JOHN AVENUE
STA 145+77 TO STA 146+17 (40' TAPER)
STA 146+17 TO STA 146+67 (50' PULL OUT LANE)
STA 146+67 TO STA 147+27 (60' TAPER)



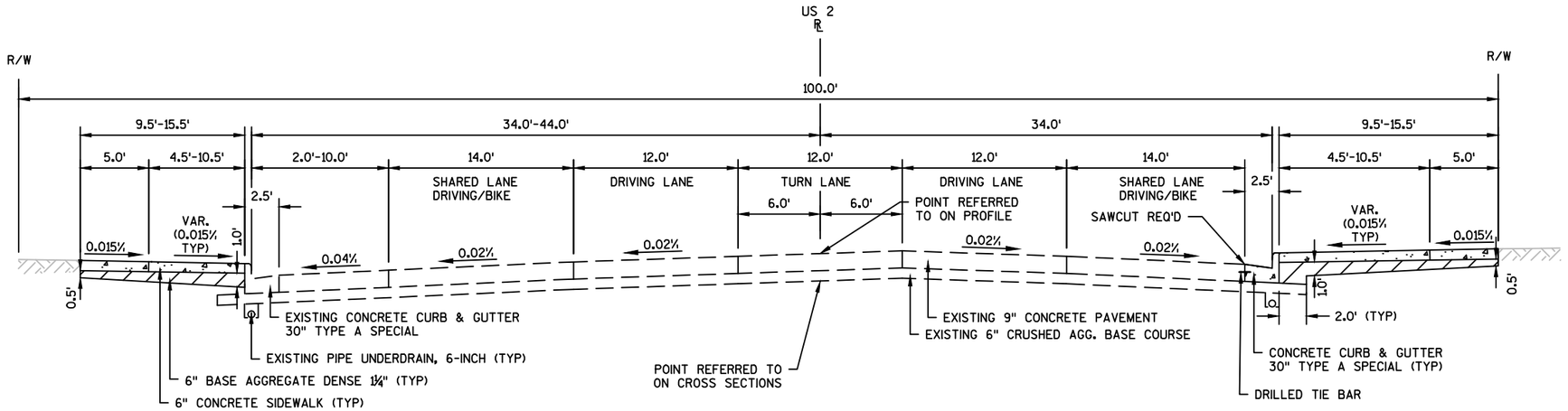
TYPICAL FINISHED SECTION (BUS PULL OUT, RIGHT)
US 2
TOWER AVENUE TO OGDEN AVENUE
STA 142+93 TO STA 143+53 (60' TAPER)
STA 143+53 TO STA 144+03 (50' PULL OUT LANE)
STA 144+03 TO STA 144+43 (40' TAPER)

CLOUGH AVENUE TO FISHER AVENUE
STA 176+75 TO STA 177+35 (60' TAPER)
STA 177+35 TO STA 177+85 (50' PULL OUT LANE)
STA 177+85 TO STA 178+25 (40' TAPER)



TYPICAL FINISHED SECTION
US 2
STA 137+52 TO STA 141+37 (BANKS AVENUE TO TOWER AVENUE)
STA 146+15 TO STA 147+24 (OGDEN AVENUE TO JOHN AVENUE)

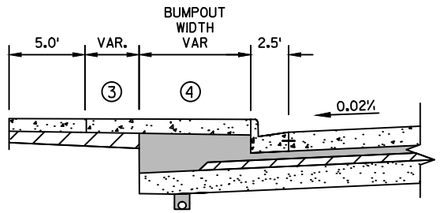
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TYPICAL FINISHED SECTION - RECONDITION

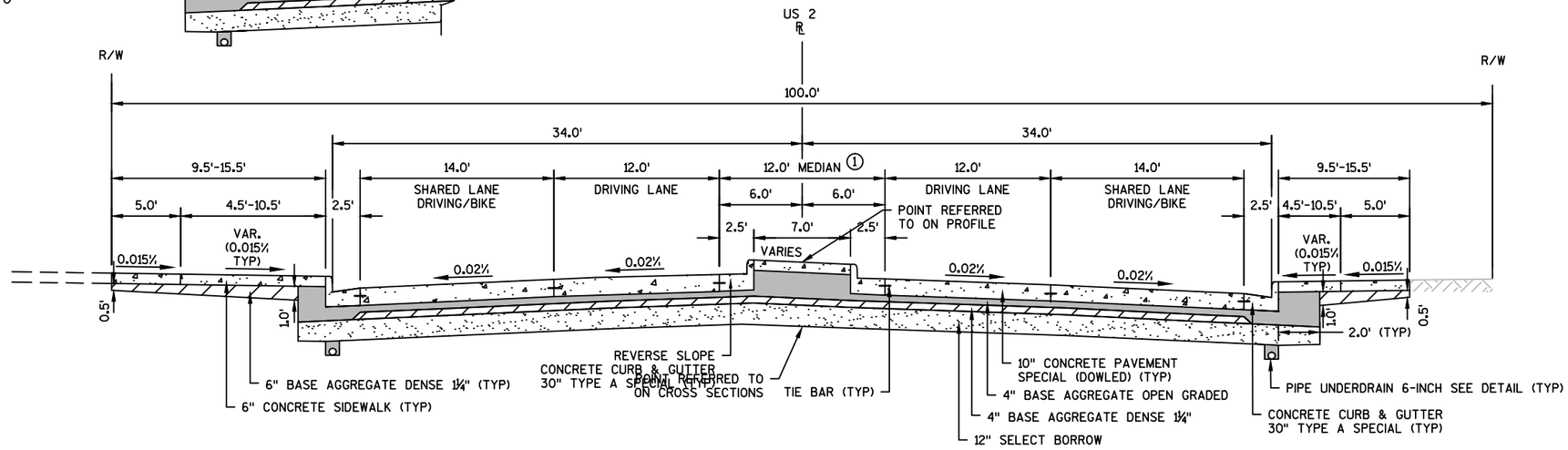
US 2

STA 141+37 TO STA 146+15 (TOWER AVENUE TO OGDEN AVENUE)



③ MAINTAIN ALIGNMENT OF SUBCUT OFFSET FROM ℄ THROUGH BUMPOUTS.

④ MAINTAIN ALIGNMENT OF PIPE UNDERDRAIN OFFSET FROM ℄ THROUGH BUMPOUTS - CONNECT TO INLET STRUCTURE AS REQUIRED.



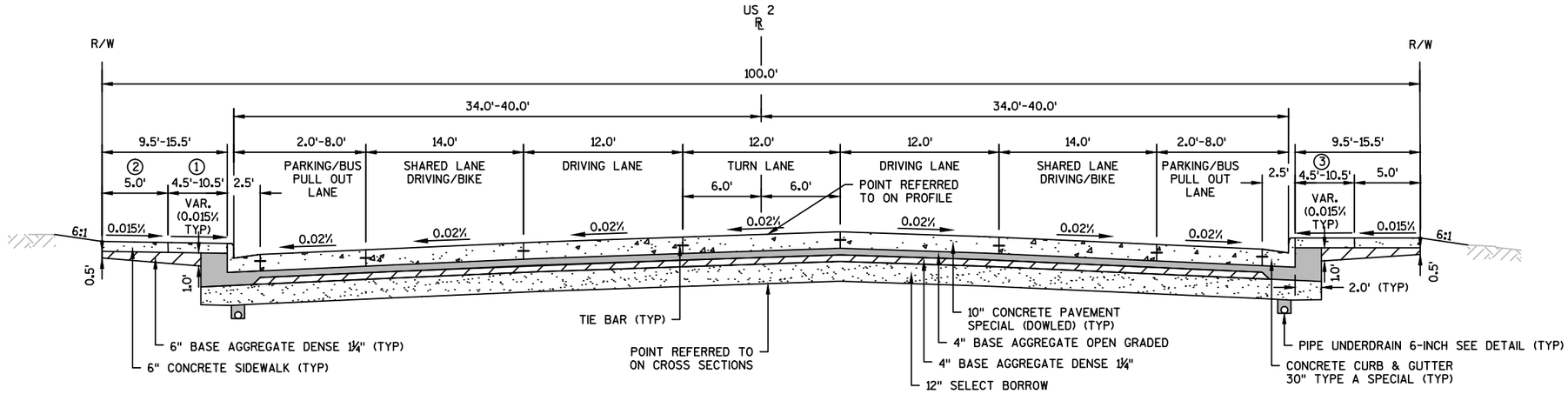
TYPICAL FINISHED SECTION

US 2

STA 147+24 TO STA 148+81 (OGDEN AVENUE TO JOHN AVENUE)

NOTES:

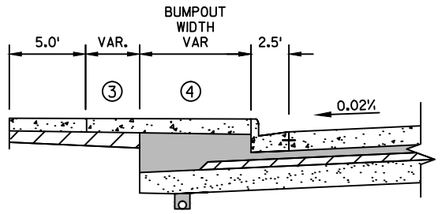
① SEE INTERSECTION DETAIL SHEETS FOR LOCATIONS OF MEDIANS.



TYPICAL FINISHED SECTION

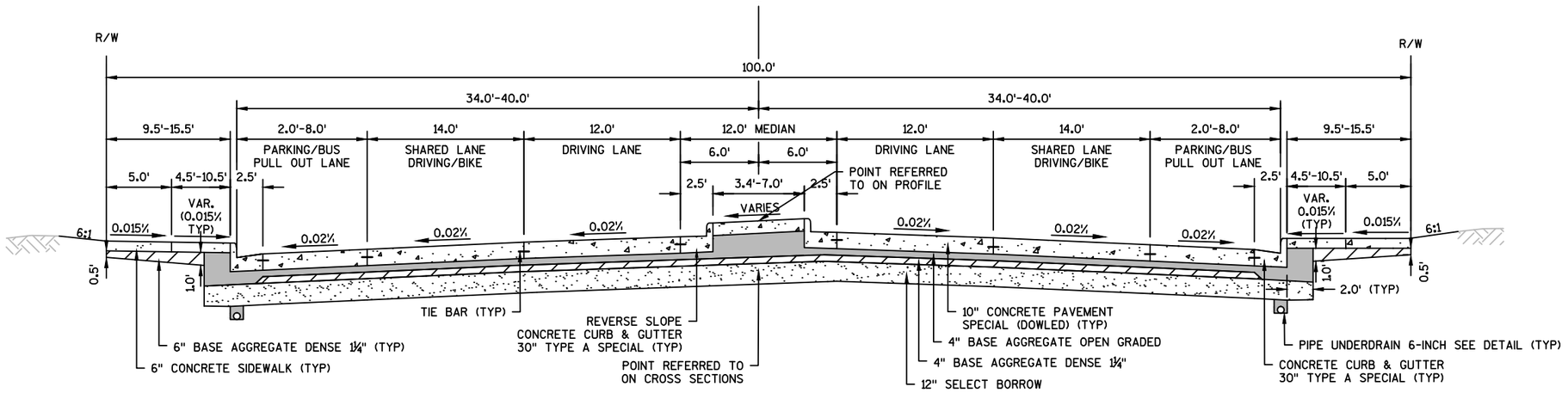
US 2

STA 148+81 TO STA 150+42 (JOHN AVENUE TO HUGHITT AVENUE)
STA 151+11 TO STA 164+15 (JOHN AVENUE TO BAXTER AVENUE)
STA 165+11 TO STA 167+73 (BAXTER AVENUE TO GRAND/LAMBORN AVENUE)



③ MAINTAIN ALIGNMENT OF SUBCUT OFFSET FROM ℄ THROUGH BUMPOUTS.

④ MAINTAIN ALIGNMENT OF PIPE UNDERDRAIN OFFSET FROM ℄ THROUGH BUMPOUTS - CONNECT TO INLET STRUCTURE AS REQUIRED.



TYPICAL FINISHED SECTION

US 2

STA 150+42 TO STA 151+11 (JOHN AVENUE TO HUGHITT AVENUE)
STA 164+15 TO STA 165+11 (BAXTER AVENUE TO GRAND/LAMBORN AVENUE)

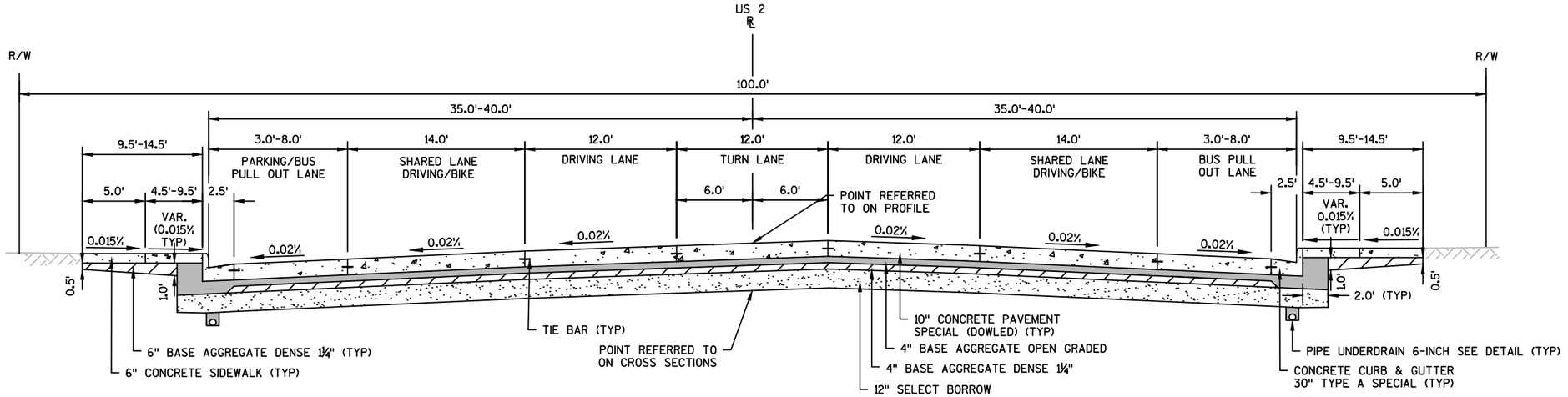
NOTES:

① TERRACE WIDTH VARIES FROM 4.5' TO 0.0'-4.0'
STA 154+91.70 TO STA 155+97.30 LT

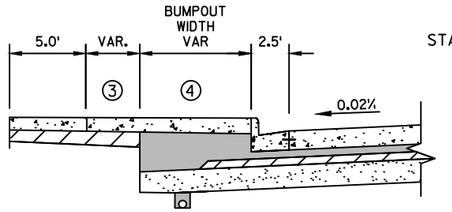
② SIDEWALK IS 6.0' AT STA 155+28.84

③ TERRACE WIDTH IS 4.0' HUGHITT AVE-HAMMOND AVE RT

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS MAINLINE	SHEET 18	E

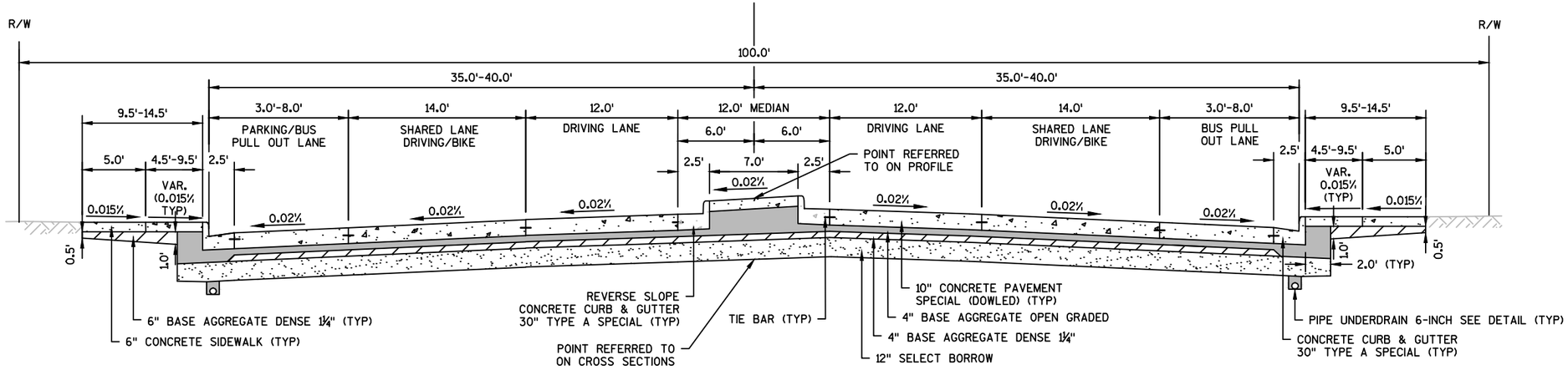


TYPICAL FINISHED SECTION
US 2
STA 167+73 TO STA 169+69 (GRAND/LAMBORN AVENUE TO WEEKS AVENUE)



③ MAINTAIN ALIGNMENT OF SUBCUT OFFSET FROM ℄ THROUGH BUMPOUTS.

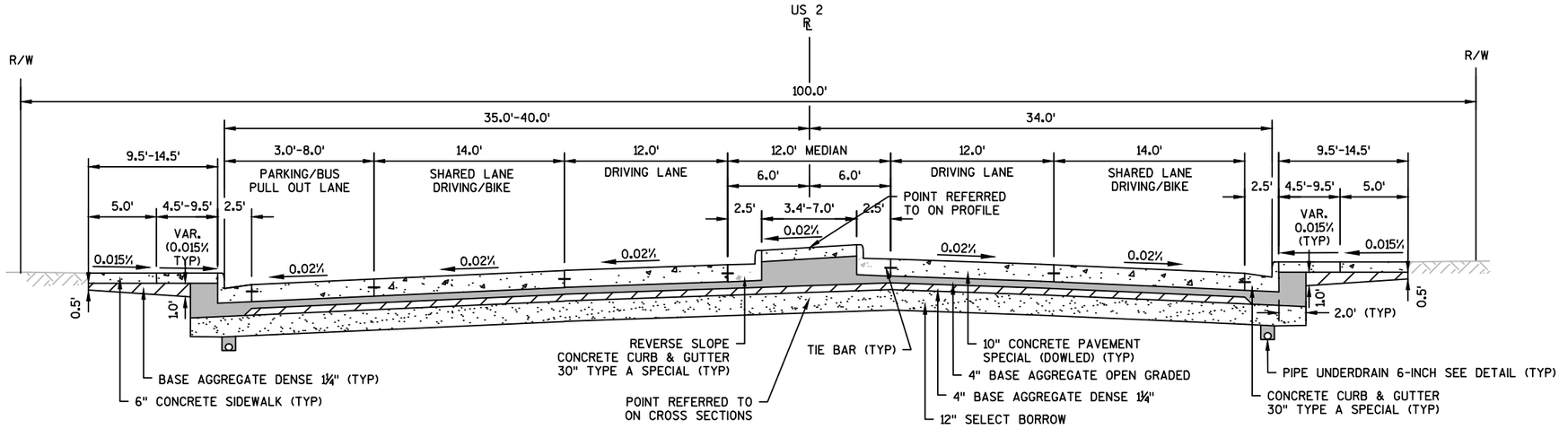
④ MAINTAIN ALIGNMENT OF PIPE UNDERDRAIN OFFSET FROM ℄ THROUGH BUMPOUTS - CONNECT TO INLET STRUCTURE AS REQUIRED.



TYPICAL FINISHED SECTION
US 2
STA 169+69 TO STA 171+43 (GRAND/LAMBORN AVENUE TO WEEKS AVENUE)

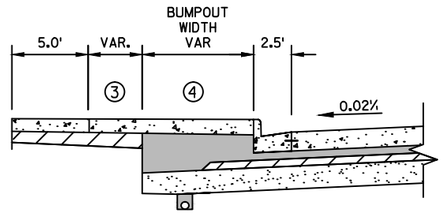
PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS MAINLINE	SHEET 19	E

2



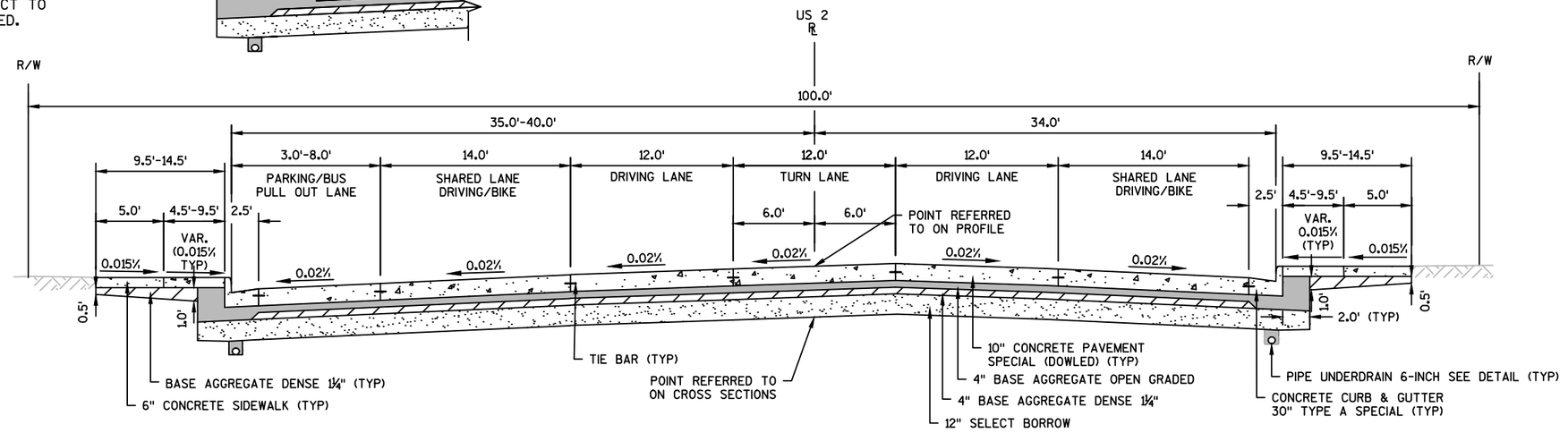
TYPICAL FINISHED SECTION

US 2
STA 171+43 TO STA 172+38 (GRAND/LAMBORN AVENUE TO WEEKS AVENUE)
STA 173+01 TO STA 173+78 (WEEKS AVENUE TO CLOUGH AVENUE)
STA 176+38 TO STA 177+28 (CLOUGH AVENUE TO FISHER AVENUE)



③ MAINTAIN ALIGNMENT OF SUBCUT OFFSET FROM ℄ THROUGH BUMPOUTS.

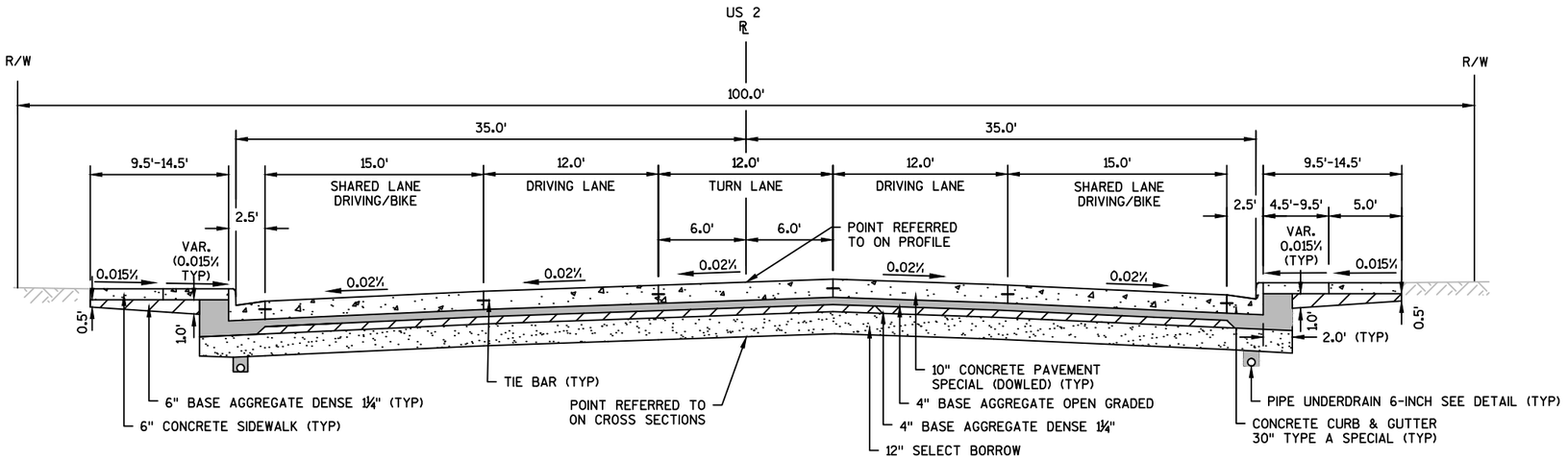
④ MAINTAIN ALIGNMENT OF PIPE UNDERDRAIN OFFSET FROM ℄ THROUGH BUMPOUTS - CONNECT TO INLET STRUCTURE AS REQUIRED.



TYPICAL FINISHED SECTION

US 2
STA 172+38 TO STA 173+01 (WEEKS AVENUE TO CLOUGH AVENUE)
STA 173+78 TO STA 176+38 (CLOUGH AVENUE TO FISHER AVENUE)
STA 177+28 TO STA 178+83 (CLOUGH AVENUE TO FISHER AVENUE)

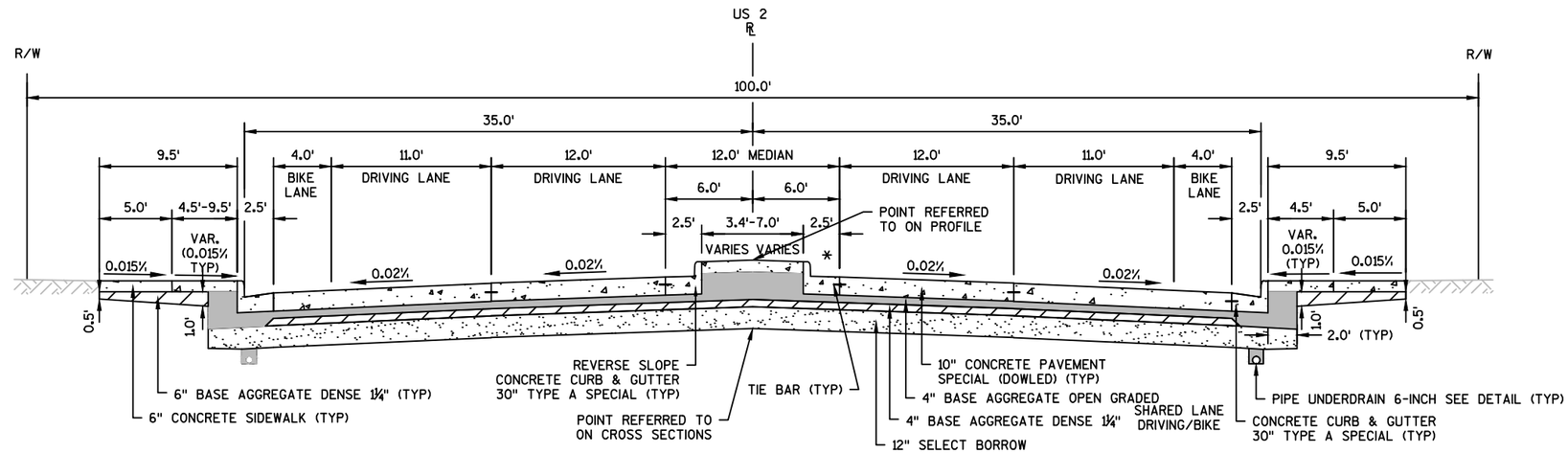
2



TYPICAL FINISHED SECTION

US 2

STA 178+83 TO STA 182+53 (FISHER AVENUE TO CATLIN AVENUE)



TYPICAL FINISHED SECTION

US 2

STA 186+00 TO STA 188+83 (BIRCH AVENUE TO MORTORELLI DRIVE)

STA 195+17 TO STA 195+99 (MORTORELLI DRIVE TO RR CROSSING) *

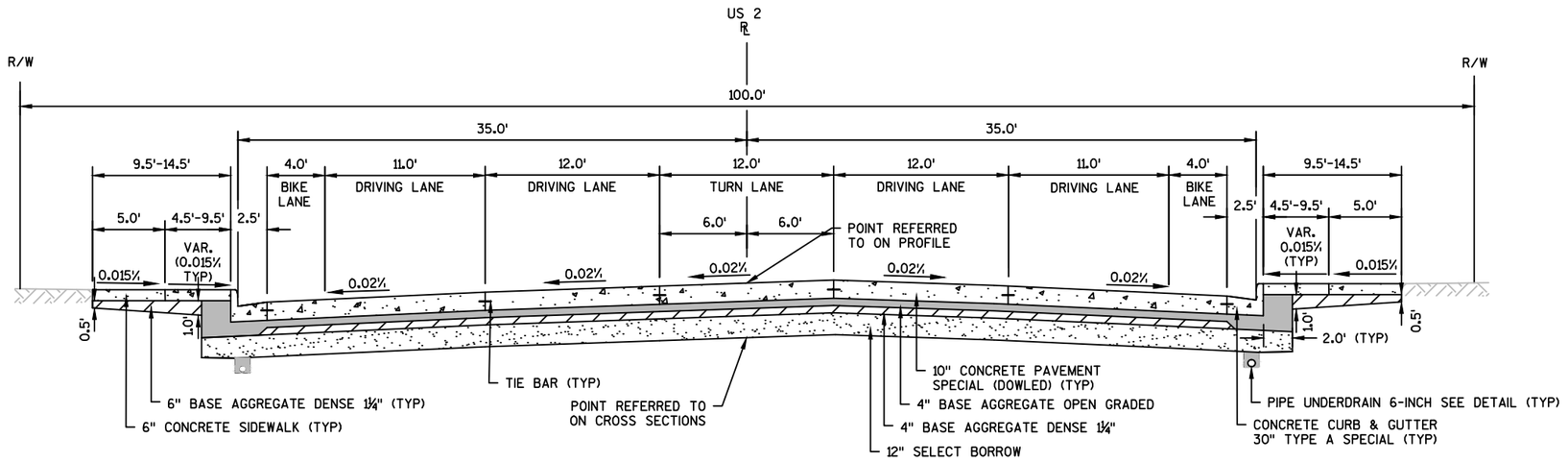
STA 196+59 TO STA 197+41 (RR CROSSING TO PINE AVENUE) *

STA 198+47 TO STA 198+81 (PINE AVENUE TO ELM AVENUE)

STA 205+14 TO STA 206+94 (CEDAR AVENUE TO HILL AVENUE)

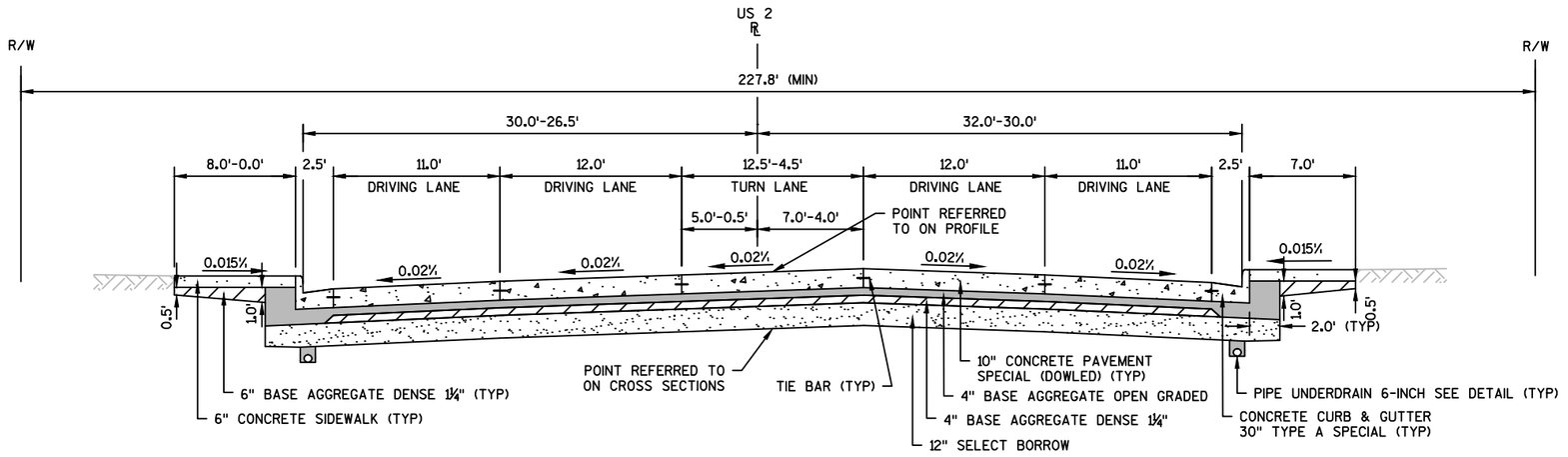
* CONCRETE (CURB & GUTTER 18" SPECIAL AT RR MEDIAN, (1.0' to 9.0' BACK OF CURB TO BACK OF CURB)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS MAINLINE	SHEET 21	E



TYPICAL FINISHED SECTION

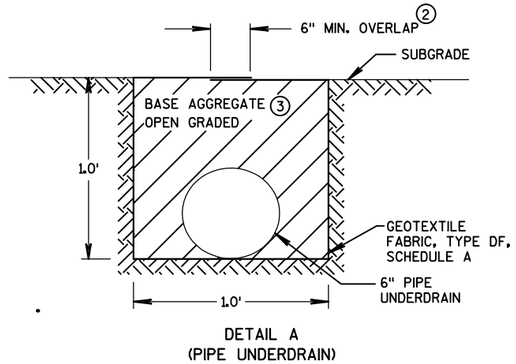
US 2
STA 182+53 TO STA 186+00 (CATLIN AVENUE TO BIRCH AVENUE)
STA 188+83 TO STA 195+17 (MORTORELLI DRIVE TO RR CROSSING)
STA 197+41 TO STA 198+47 (RR CROSSING TO PINE AVENUE)
STA 198+81 TO STA 205+14 (PINE AVENUE TO CEDAR AVENUE)
STA 206+94 TO STA 208+34 (CEDAR AVENUE TO HILL AVENUE)



TYPICAL FINISHED SECTION

US 2
STA 208+34 TO STA 210+18 (HILL AVENUE TO END OF PROJECT)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS MAINLINE	SHEET 22	E



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

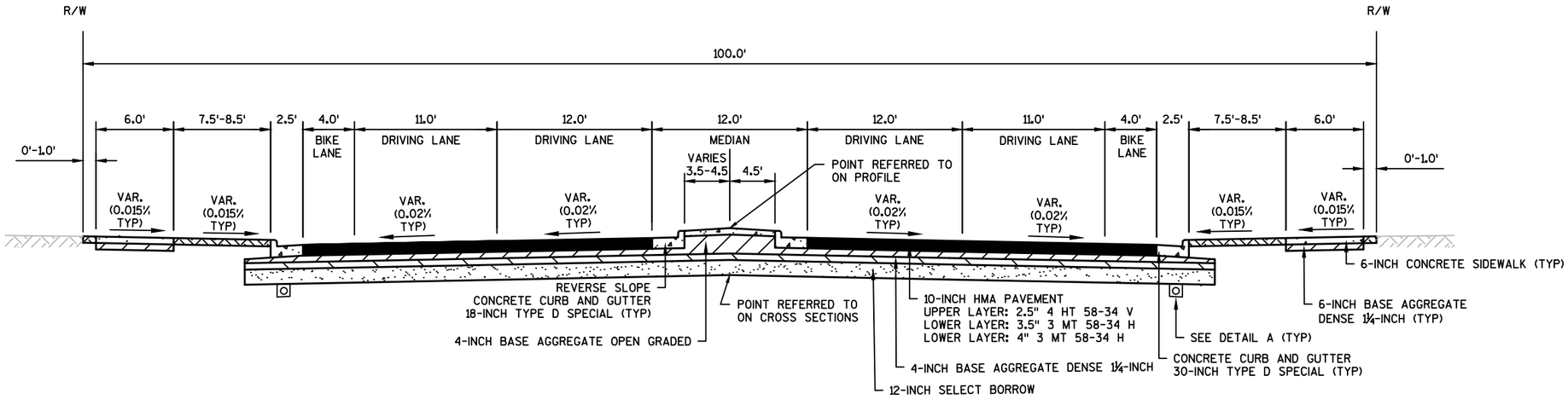
① RAILROAD CROSSING FROM STA 196+24 TO STA 196+34

② FABRIC SHALL OVERLAP AT TOP OF SUBGRADE.
6-INCH MINIMUM OVERLAP

PIPE UNDERDRAIN SHALL BE LAID
PARALLEL TO THE GRADE OF
THE ROADWAY.

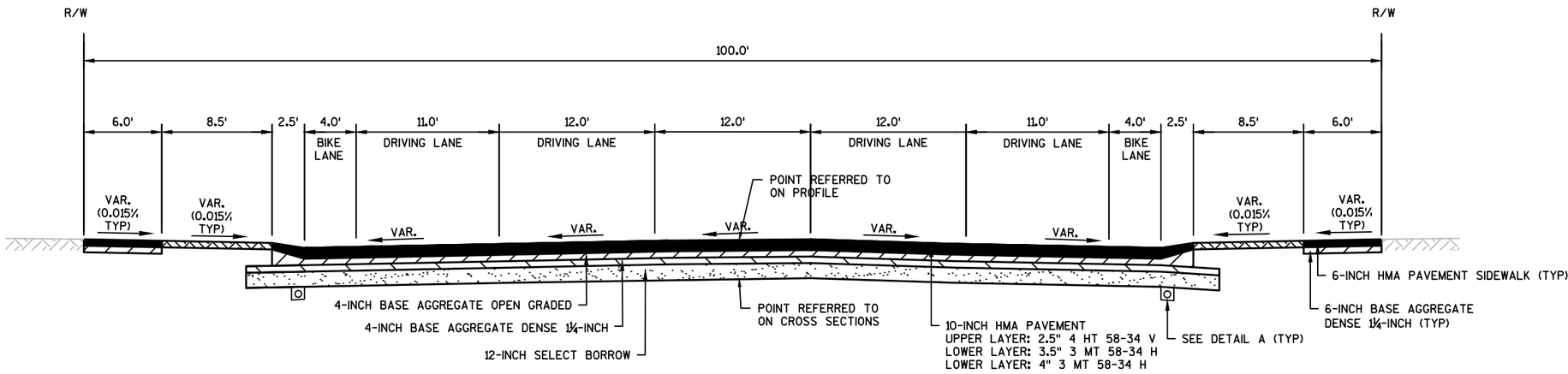
PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE
AND PRIOR TO THE PLACEMENT OF BASE LAYERS.

③ TRENCH BACKFILL WILL BE PAID FOR AS
BASE AGGREGATE OPEN GRADED, OR IN
LIEU OF USE WELL GRADED COURSE AGGREGATE
SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4
OF THE STANDARD SPECIFICATIONS.



TYPICAL FINISHED SECTION

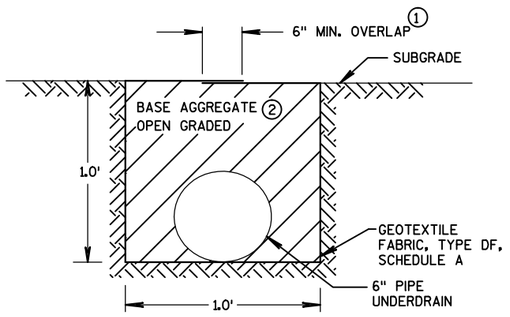
① STA 195+99 TO STA 196+16 (POPLAR AVENUE TO RR CROSSING)
STA 196+41 TO STA 196+59 (RR CROSSING TO PINE AVENUE)



TYPICAL FINISHED SECTION

① STA 196+16 TO STA 196+24 (POPLAR AVENUE TO RR CROSSING)
STA 196+34 TO STA 196+41 (RR CROSSING TO PINE AVENUE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	RAILROAD TYPICAL SECTIONS	SHEET 23	E



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

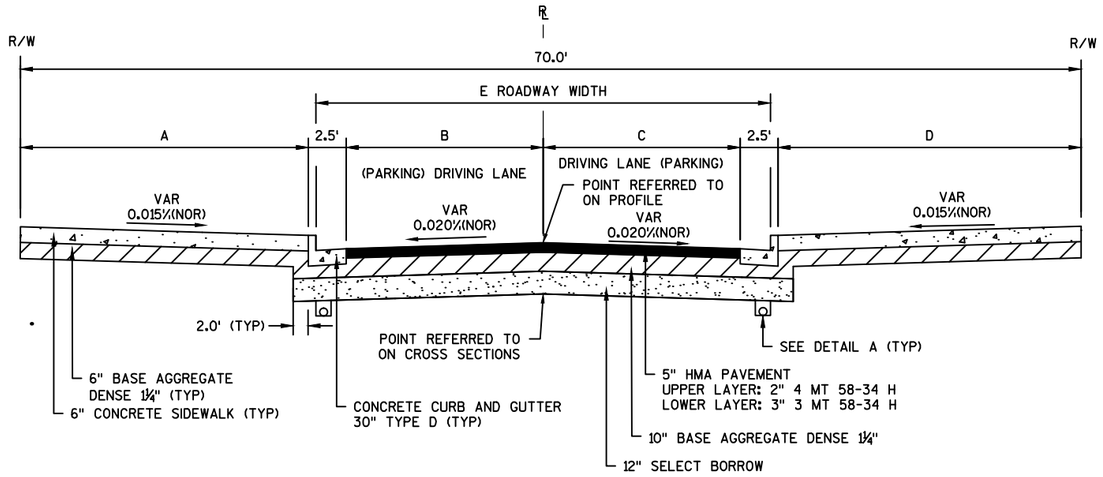
① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

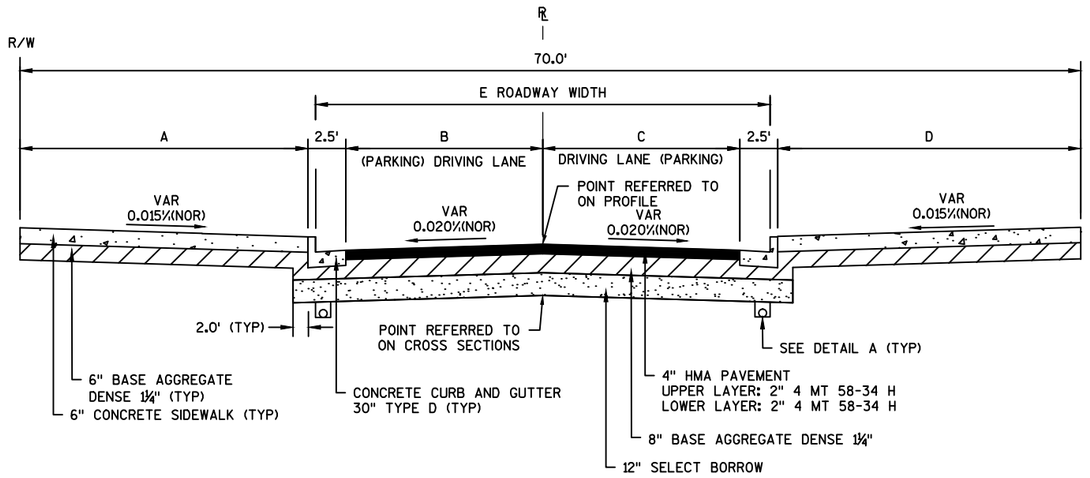
PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

② TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.



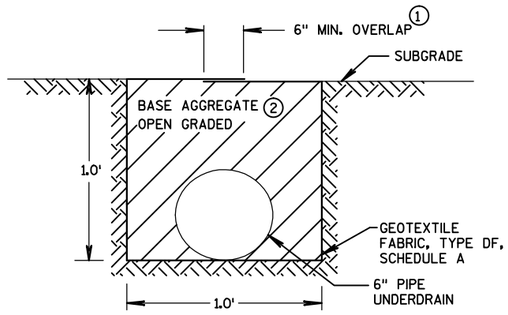
FINISHED TYPICAL SECTION

	A	B	C	D	E	COMMENTS
JOHN AVENUE STA 299+22 TO STA 299+31	19.5'-22.2'	10.2'-13.0'	13.0'	19.5'	27.2'-30.0'	
JOHN AVENUE STA 300+64 TO STA 300+80	20.3'-22.5'	10.0'-12.1'	10.0'-12.1'	19.9'-22.0'	24.0'-28.3'	
HUGHITT AVENUE STA 309+22 TO STA 309+46	19.5'	13.0'	13.0'	19.5'	30.0'	
HUGHITT AVENUE STA 310+54 TO STA 310+78	13.4'-21.3'	11.0' (0.0'-8.0')	11.0' (0.0'-13.2')	6.9'-21.0'	26.0'-48.0'	
CUMMING AVENUE STA 338+11 TO STA 339+46	19.5'-22.5'	10.0'-13.0'	10.0'-13.0'	19.5'-22.5'	24.0'-30.0'	
BAXTER AVENUE STA 349+22 TO STA 349+46	13.7'-19.7'	12.0' (0.0'-6.0')	12.0' (0.0'-6.0')	14.5'-20.5'	28.0'-40.0'	
BAXTER AVENUE STA 350+54 TO STA 350+69	0.0'-23.5'	10.0'	10.0' (0.0'-6.9')	14.8'-22.0'	24.0'-31.1'	
BAXTER AVENUE STA 351+86 TO STA 352+29	7.8'-17.5'	10.0' (0.0'-9.7')	10.0' (0.0'-9.6')	7.9'-17.5'	24.0'-43.3'	A-SIDEWALK BACK 5.0' FROM R/W D-SIDEWALK BACK 5.0' FROM R/W



FINISHED TYPICAL SECTION

	A	B	C	D	E	COMMENTS
CLOUGH AVENUE STA 389+07 TO STA 389+40	10.7'-18.2'	12.0' (0.0'-7.5')	12.0' (0.0'-8.0')	6.0'-14.0'	28.0'-43.5'	D-SIDEWALK BACK 6.1'-6.4' FROM R/W
BIRCH AVENUE STA 420+60 TO STA 420+79	12.8'-15.5'	11.5' (0.0'-7.8')	12.5' (0.0'-7.8')	17.1'-20.0'	28.0'-33.7'	A-SIDEWALK BACK 5.5' FROM R/W



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

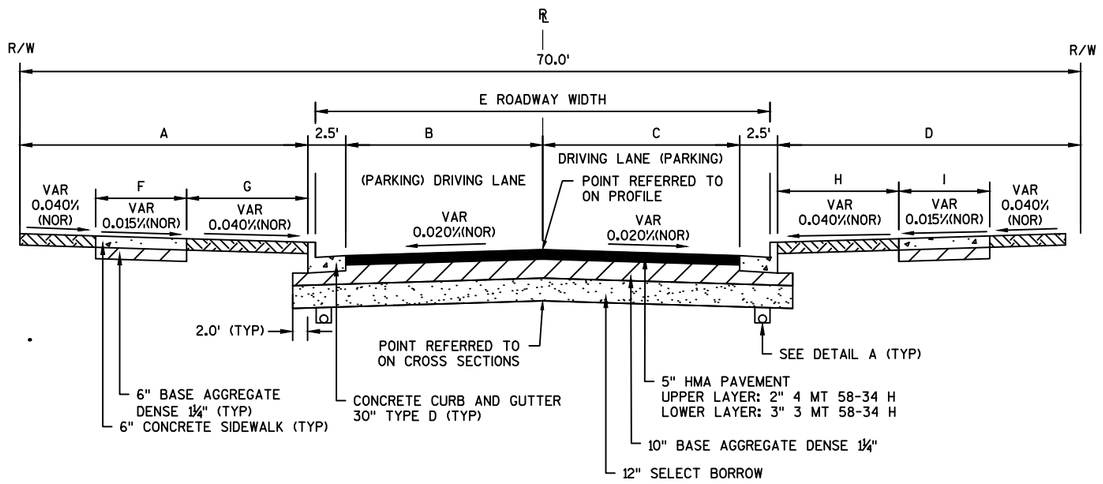
① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

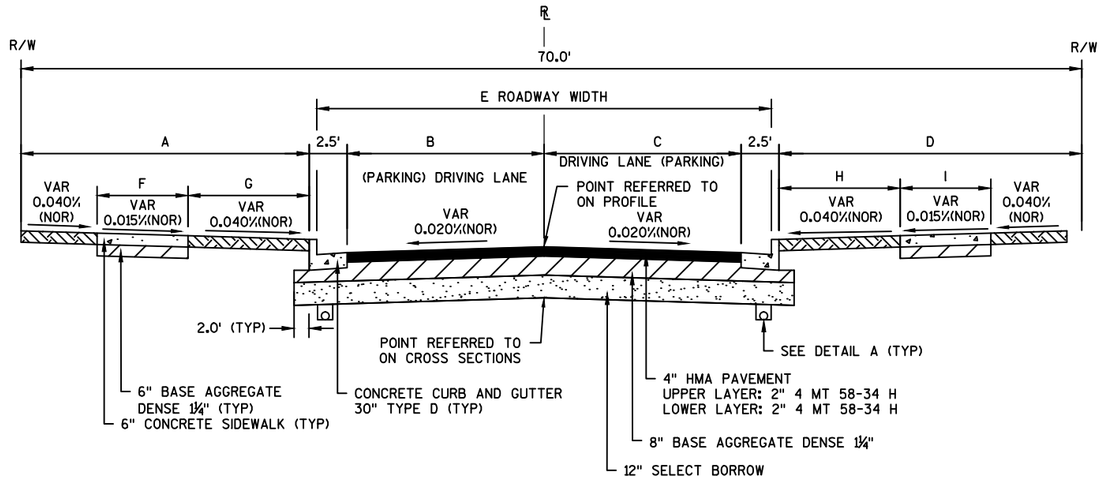
PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

② TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.



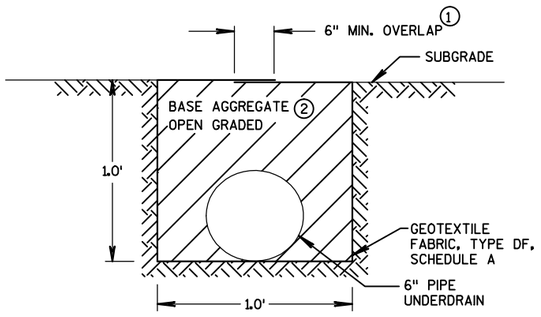
FINISHED TYPICAL SECTION

	A	B	C	D	E	F	G	H	I	COMMENTS
JOHN AVENUE STA 297+72 TO STA 299+22	20.0'-19.5'	12.5'-13.0'	13.0'	19.5'	29.5'-30.0'	5.5'-6.0'	8.5'-10.5'	9.5'-10.0'	6.0'	
JOHN AVENUE STA 300+80 TO STA 302+16.5	19.5'-20.4'	12.1'-13.0'	12.1'-13.0'	20.4'-19.5'	28.3'-30.0'	6.0'	9.5'-10.3'	9.5'-10.3'	6.0'	
HUGHITT AVENUE STA 307+80 TO STA 309+22	19.5'	13.0'	13.0'	19.5'	30.0'	5.5'-6.0'	9.0'-9.5'	9.5'	5.0'-6.0'	
HUGHITT AVENUE STA 310+78 TO STA 312+20	13.5'-19.5'	11.0'-13.0' (6.0'-8.0')	11.0' (16.0')	5.5'-21.5'	26.0'-50.0'	5.0'	3.5'-9.5'	0.0'-16.0'	5.0'-7.0'	
CUMMING AVENUE STA 337+75 TO STA 338+11	19.5'	13.0'	13.0'	19.5'	30.0'	5.0'-6.0'	9.5'	9.5'	5.0-6.0'	
BAXTER AVENUE STA 347+79 TO STA 349+22	14.5'-22.0'	10.5'-12.0' (0.0'-6.0')	10.0'-12.0' (0.0'-6.0')	14.5'-22.5'	24.5'-40.0'	5.0'-6.0'	4.0'-12.0'	4.5'-13.0'	5.0'-6.0'	
BAXTER AVENUE STA 350+69 TO STA 351+86	14.5'-22.5'	10.0' (0.0'-8.5')	10.0' (0.0'-9.5')	13.0'-22.5'	33.5'-41.5'	6.0'	0.0'-8.0'	0.0'	8.0'-17.5'	
WEEKS AVENUE STA 380+60 TO STA 382+50	13.5'-19.5'	13.0' (6.0')'	13.0'	19.5'	30.0'-36.0'	5.0'	5.0'-11.0'	9.5'	5.0'	
CYPRESS AVENUE STA 430+48 TO STA 432+60	0.0'-26.0'	11.0'-12.5' (16.5'-18.0')	7.5'-14.0' (0.0'-10.5')	10.0'-20.5'	28.0'-51.0'	0.0'-9.0'	0.0'-18.0'	0.0'-10.5'	5.0'-7.1'	CROWN VARIES FROM 1.0' TO 4.5' RT OF ℄
CEDAR AVENUE STA 480+60 TO STA 482+15	12.5'-22.5'	12.0'-14.0' (0.0'-8.0')	12.0'-14.0'	16.5'-18.5'	28.0'-40.0'	6.0'-19.2'	0.0'-10.0'	0.0'-9.0'	5.0'-20.6'	



FINISHED TYPICAL SECTION

	A	B	C	D	E	F	G	H	I	COMMENTS
CLOUGH AVENUE STA 387+25 TO STA 389+07	11.0'-20.5'	10.0'-12.0' (7.5'-9.5')	10.0'-12.0' (8.0'-10.0')	11.8'-20.8'	24.0'-43.5'	5.0'-7.8'	0.0'-10.5'	0.0'-12.5'	5.0'-7.8'	
BIRCH AVENUE STA 420+79 TO STA 422+15	15.0'-21.0'	11.5'-15.6' (0.0'-6.0')	12.5'-16.4' (0.0'-6.0')	14.0'-20.0'	28.0'-40.0	5.0'	4.5'-7.6'	4.5'-7.6'	5.0'	
PINE AVENUE STA 460+60 TO STA 461+75	8.5'-27.4'	12.0'-14.0' (0.0'-19.0')	12.0'	13.5'	28.0'-47.0'	5.0'-27.0'	0.0'-15.0'	0.0'-3.0'	5.0'-13.5'	CROWN 7.0' RT OF ℄ LANE WIDTH MEASURED FROM CROWN



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

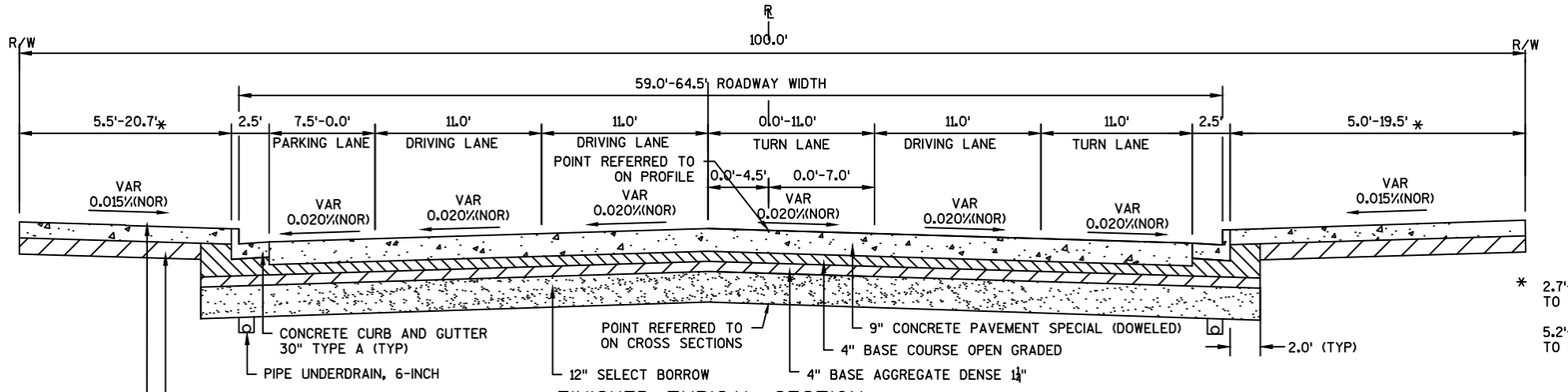
1. FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

   PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

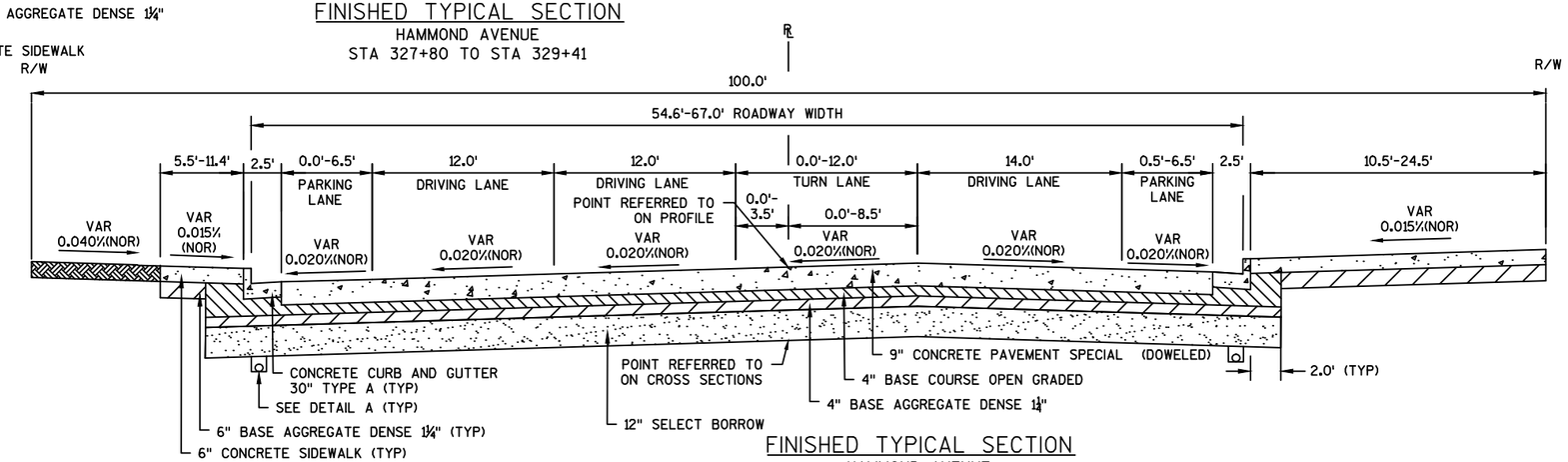
   IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

   PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

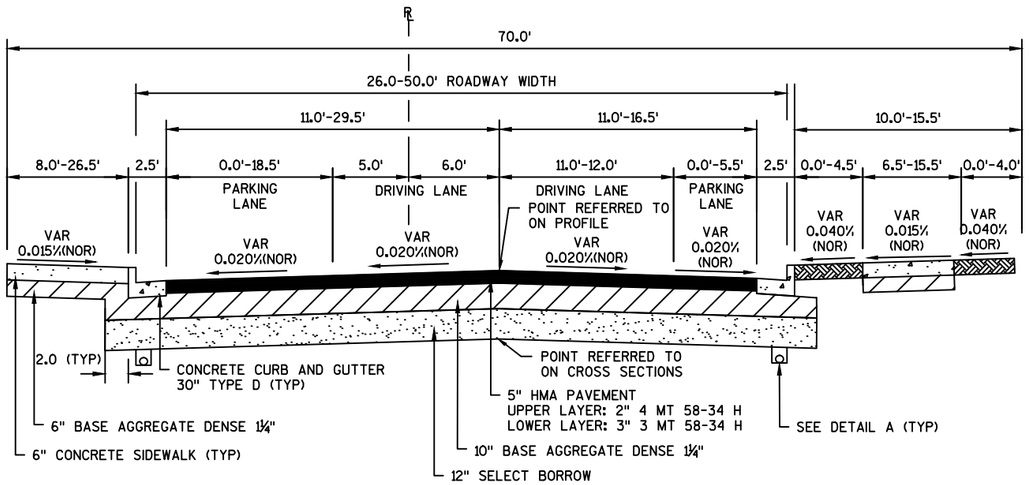
2. TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.



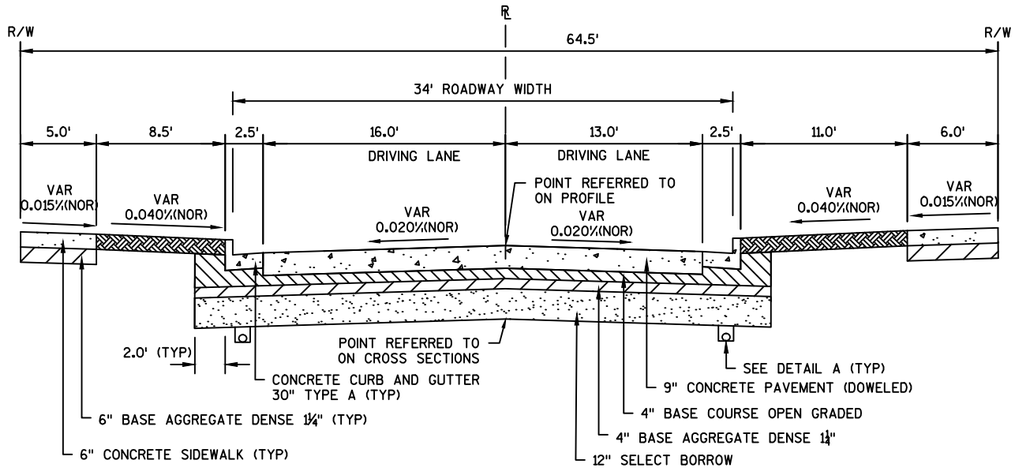
FINISHED TYPICAL SECTION
HAMMOND AVENUE
STA 327+80 TO STA 329+41



FINISHED TYPICAL SECTION
HAMMOND AVENUE
STA 330+59 TO STA 331+00

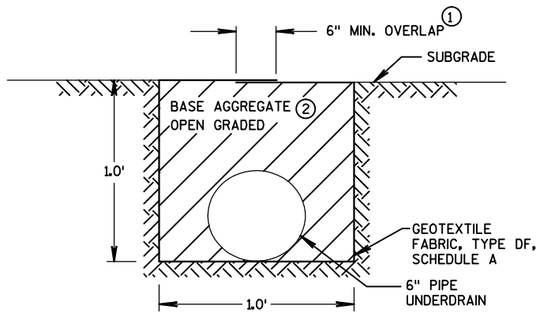


FINISHED TYPICAL SECTION
CUMMING AVENUE
STA 340+54 TO STA 342+57



FINISHED TYPICAL SECTION
GRAND AVENUE SOUTH
STA 100+00 TO STA 101+67

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS SIDE STREETS	SHEET 26	E



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

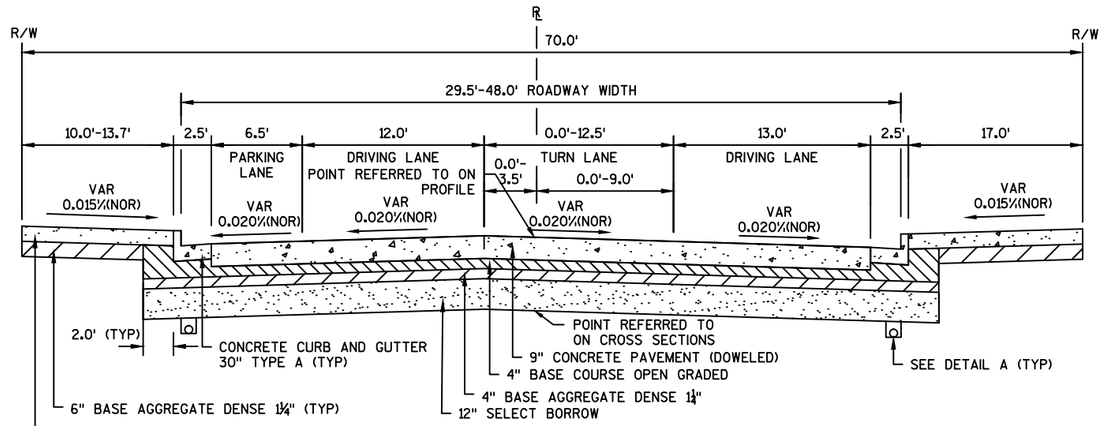
① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

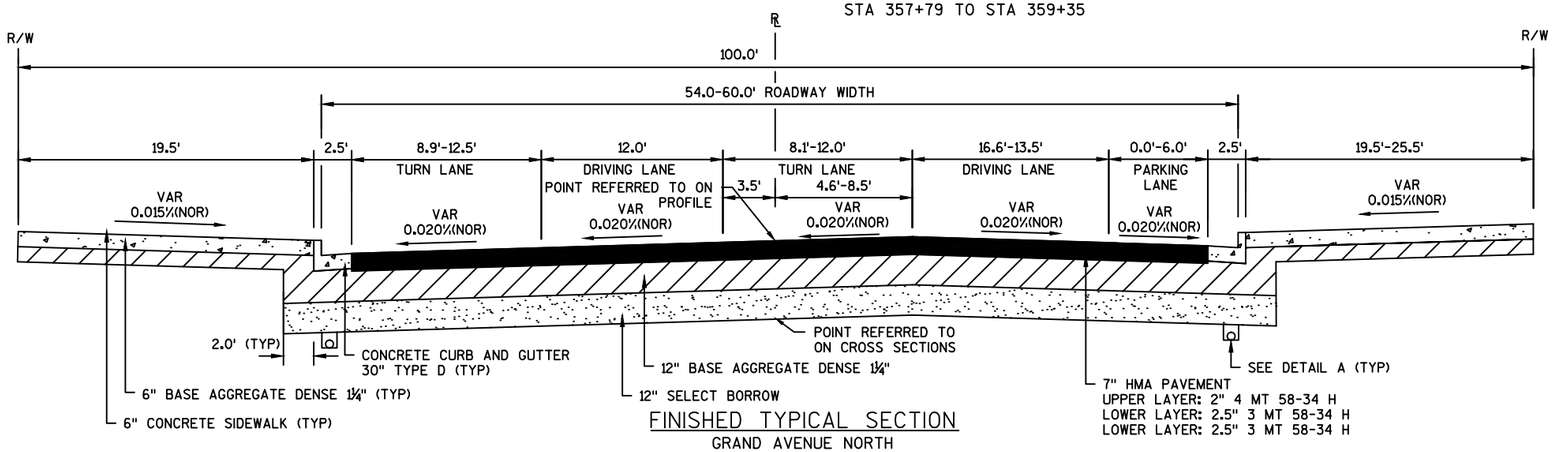
IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

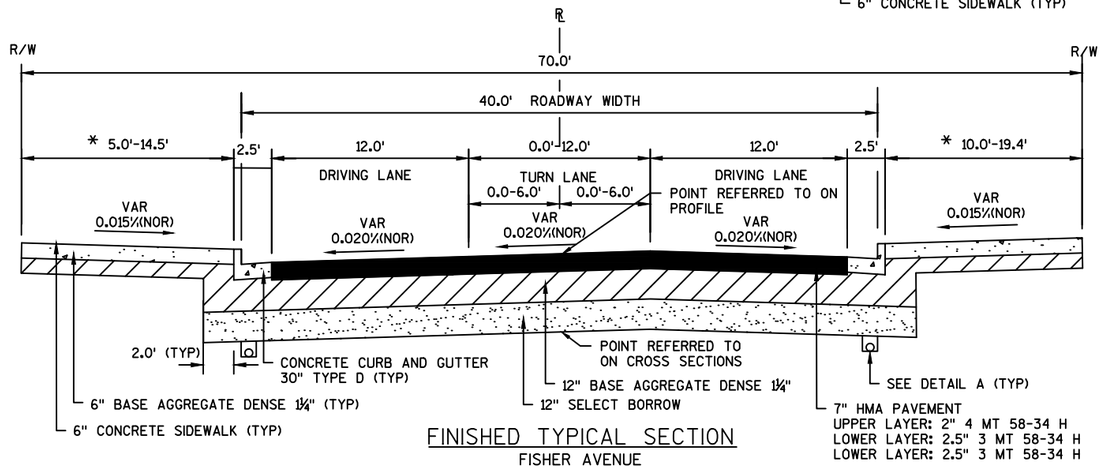
② TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.



FINISHED TYPICAL SECTION
LAMBORN AVENUE
STA 357+79 TO STA 359+35

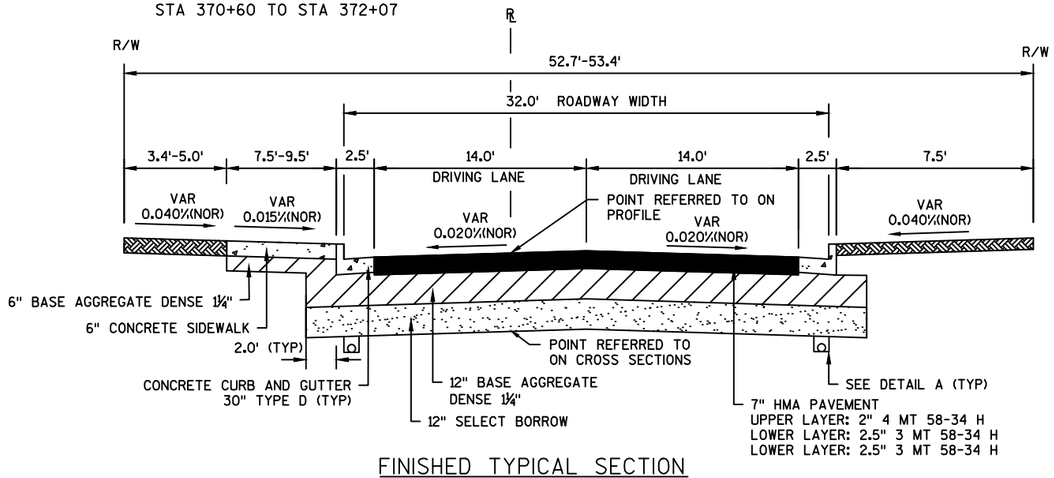


FINISHED TYPICAL SECTION
GRAND AVENUE NORTH
STA 370+60 TO STA 372+07



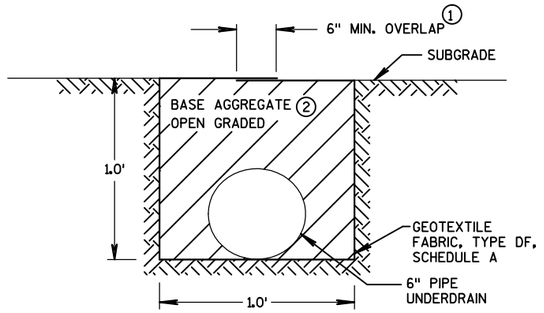
FINISHED TYPICAL SECTION
FISHER AVENUE
STA 400+60 TO STA 402+15

* LT SIDEWALK ENDS AT STA 401+23. RT SIDEWALK CONTINUES 5.0' WIDE FROM STA 400+78 WITH A 5.0' BOULEVARD TO STA 401+96



FINISHED TYPICAL SECTION
FISHER AVENUE
STA 398+23 TO STA 399+41

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS SIDE STREETS	SHEET 27	E



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

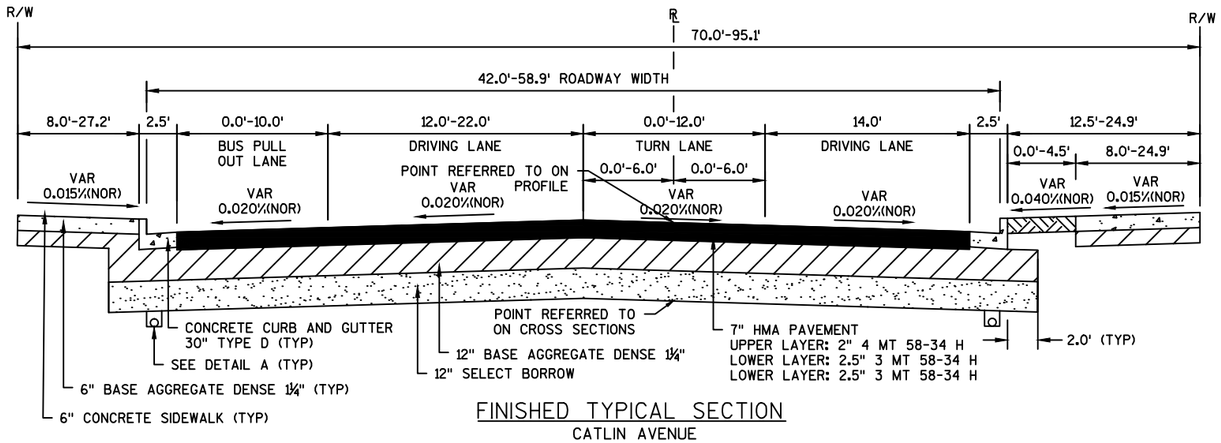
① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

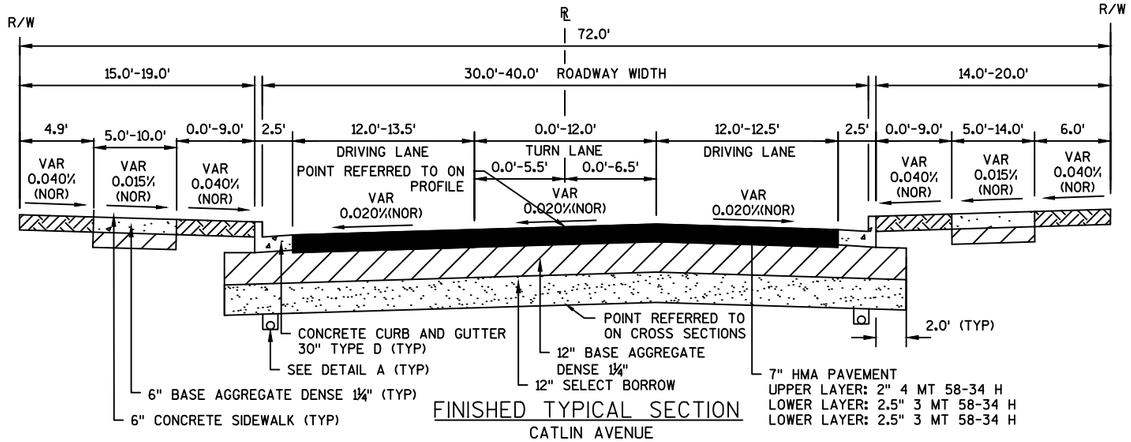
IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

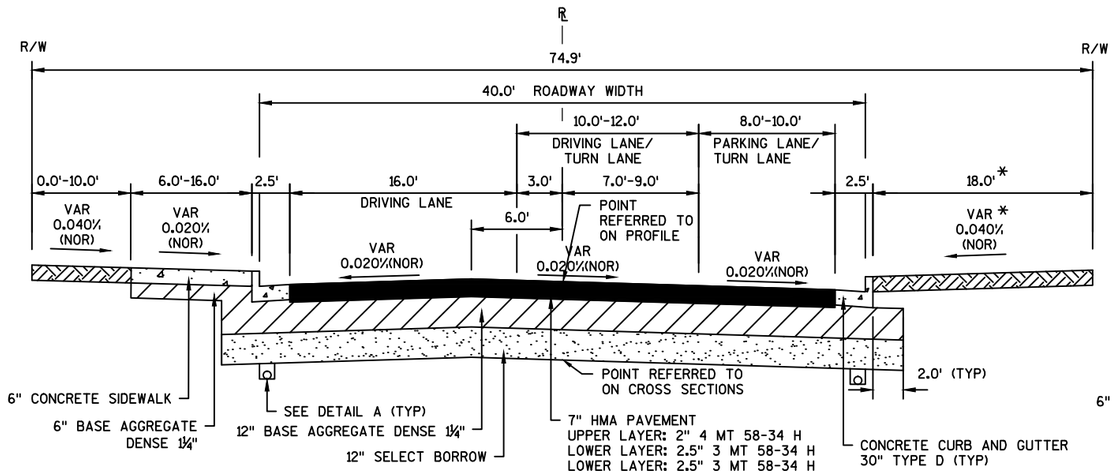
② TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.



FINISHED TYPICAL SECTION
CATLIN AVENUE
STA 407+83 TO STA 409+40

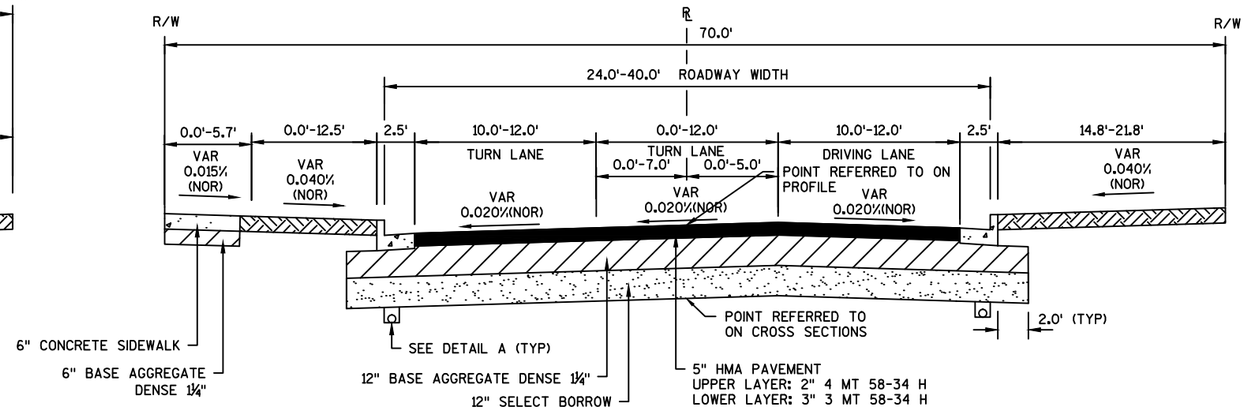


FINISHED TYPICAL SECTION
CATLIN AVENUE
STA 410+60 TO STA 412+50



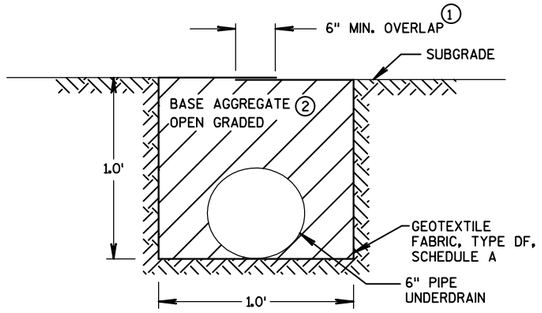
FINISHED TYPICAL SECTION
MORTORELLI MEMORIAL DRIVE
STA 437+75 TO STA 439+36

* STA 439+28 TO STA 439+36
6" CONCRETE SIDEWALK SLOPE VAR 0.015% (NOR)



FINISHED TYPICAL SECTION
POPLAR AVENUE
STA 450+60 TO STA 452+30

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS SIDE STREETS	SHEET 28	E



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

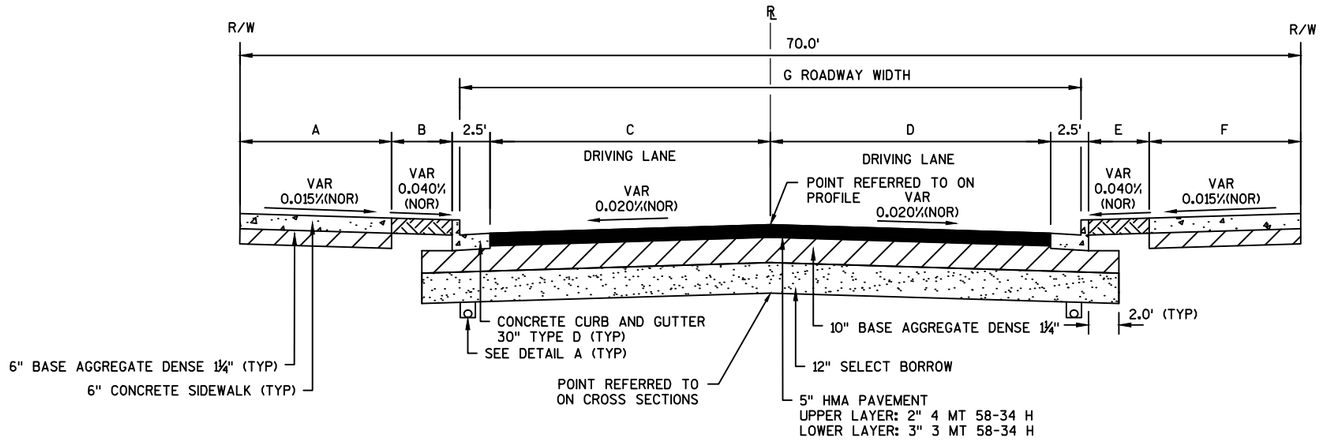
① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

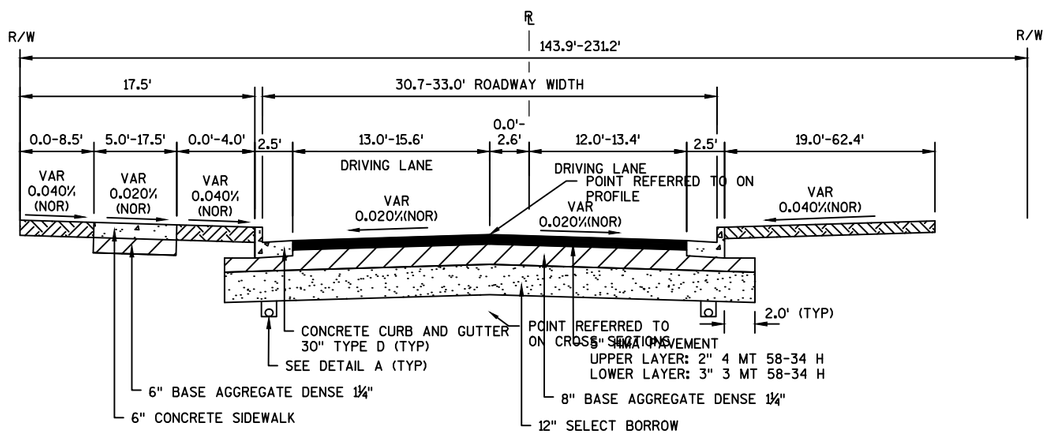
PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

② TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.

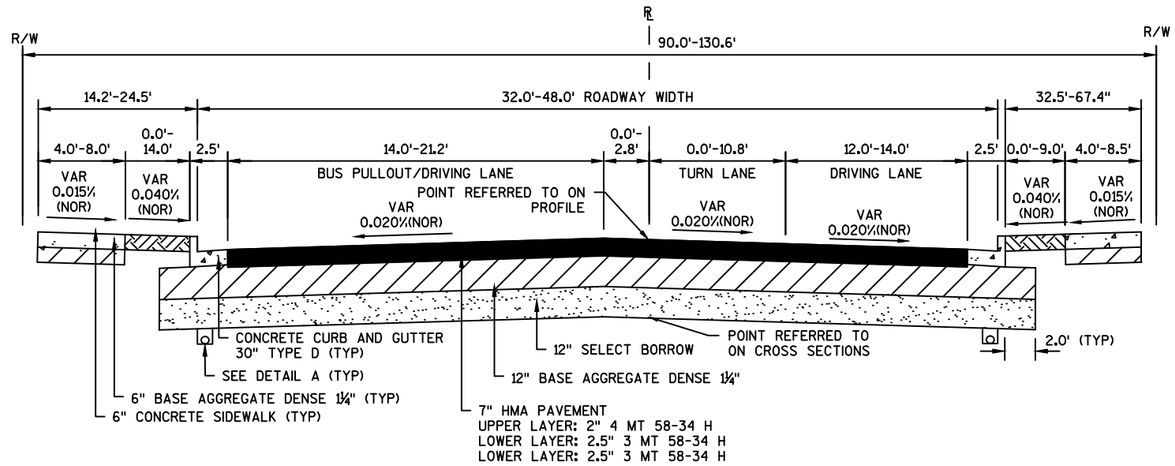


FINISHED TYPICAL SECTION

	A	B	C	D	E	F	G
ELM AVENUE STA 467+18 TO STA 469+41	5.0'	4.0'	15.7'-16.0'	16.0'	0.0'-9.0'	5.0'-22.3'	35.7'-36.0'
ELM AVENUE STA 470+70 TO STA 472+15	5.0'	10.5'	12.0'	12.0'	11.5'	5.0'	28.0'

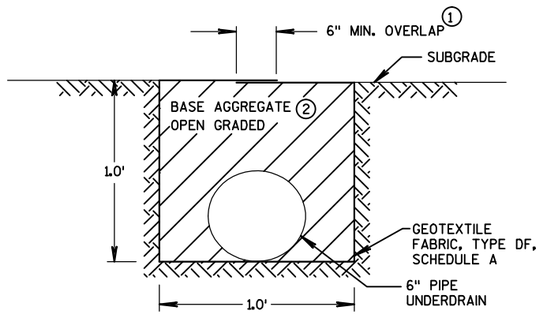


FINISHED TYPICAL SECTION
HILL AVENUE
STA 500+65 TO STA 501+84



FINISHED TYPICAL SECTION
HILL AVENUE
STA 497+75 TO STA 498+81

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS SIDE STREETS	SHEET 29	E



DETAIL A
(PIPE UNDERDRAIN)

NOTES:

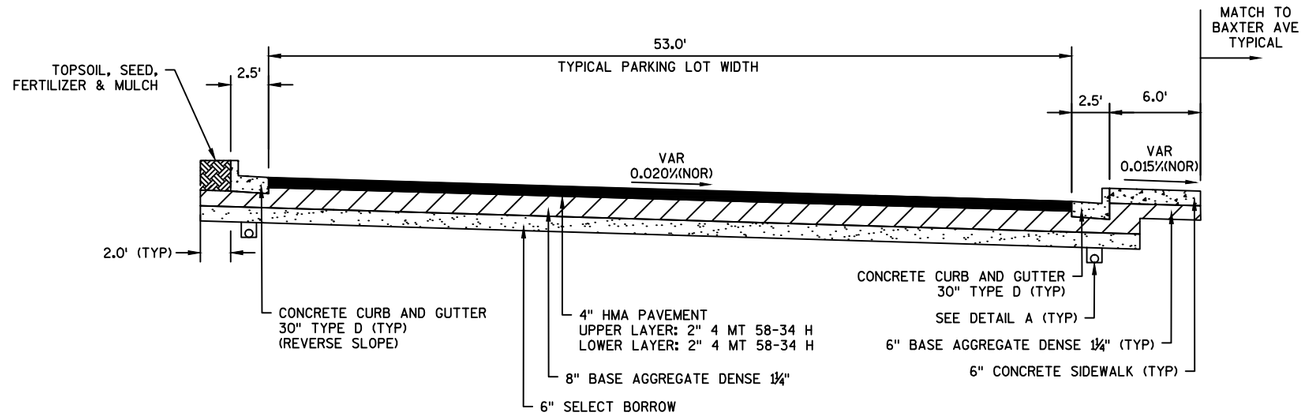
① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

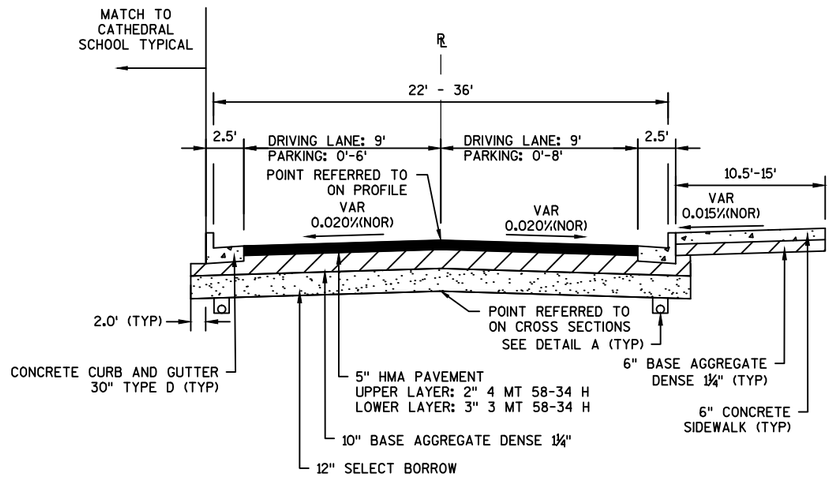
IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.

PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

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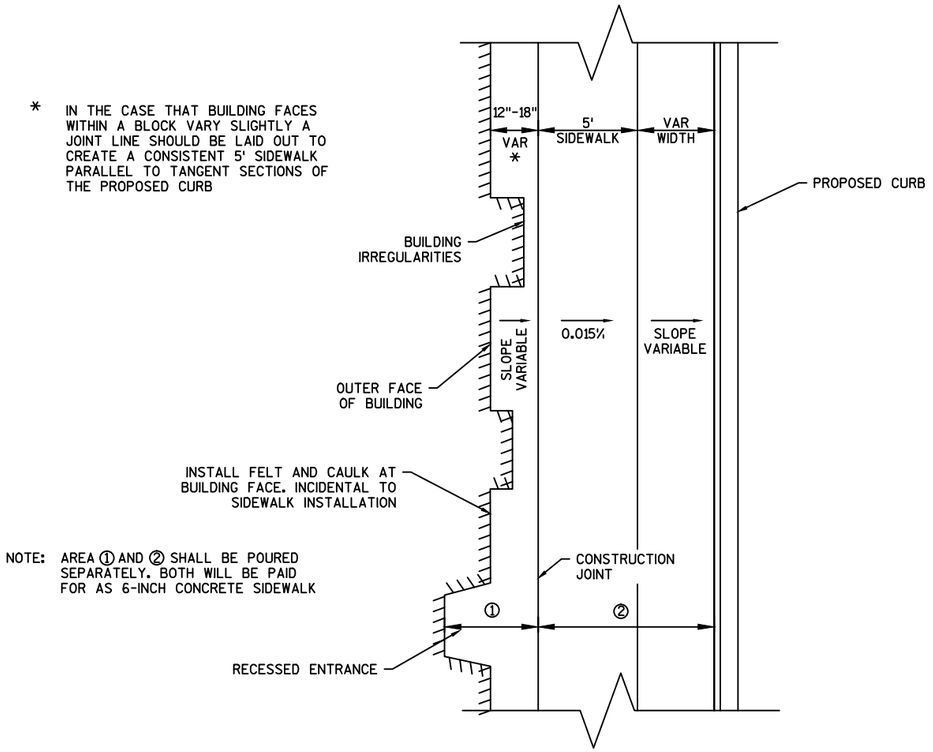
FINISHED TYPICAL SECTION
CATHEDRAL SCHOOL PARKING LOT
STA 350+61 - 351+77 LT 'BAXTER'



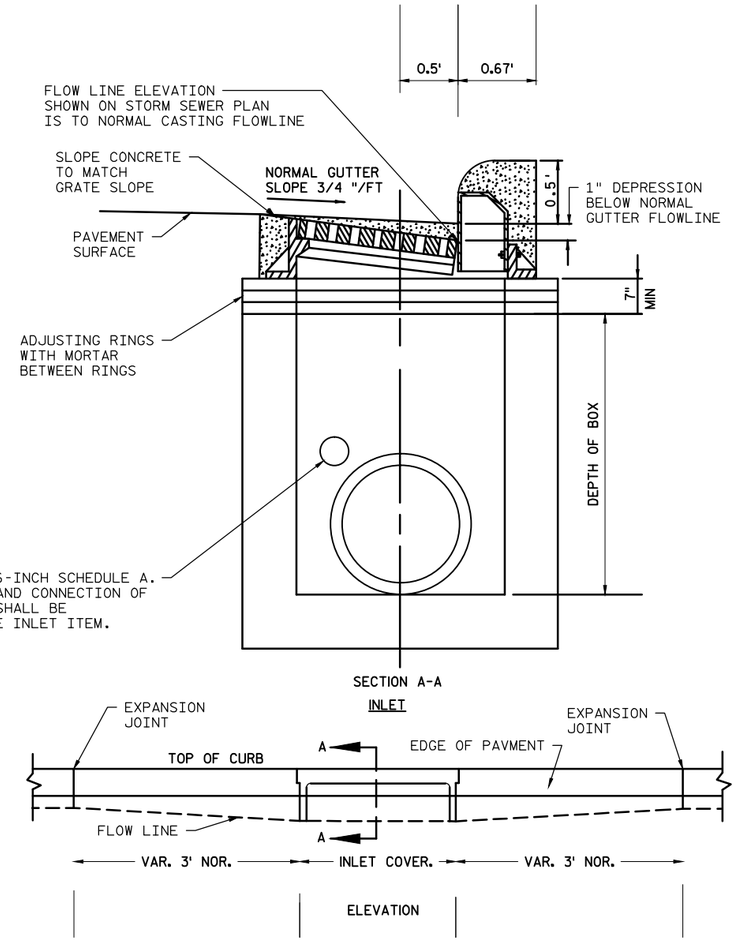
FINISHED TYPICAL SECTION
BAXTER AVE
350+69 - 351+86

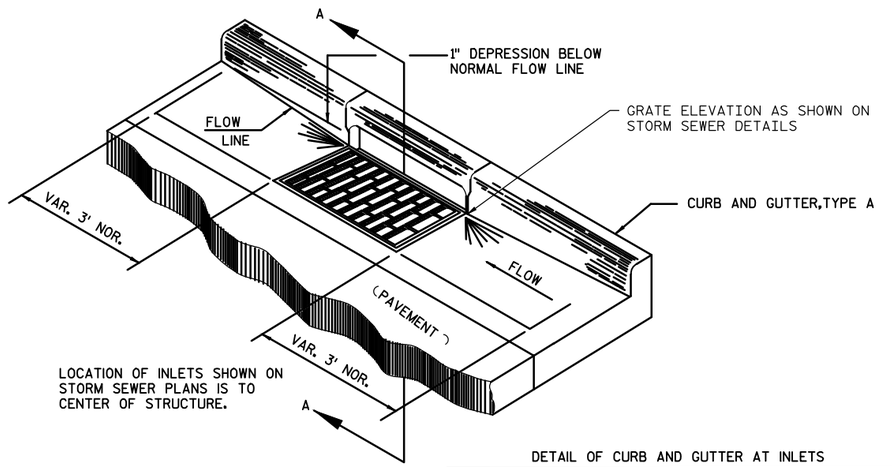
PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP STREET	COUNTY:DOUGLAS	PLAN: PROPOSED TYPICAL SECTIONS PARKING LOTS	SHEET 30	E

* IN THE CASE THAT BUILDING FACES WITHIN A BLOCK VARY SLIGHTLY A JOINT LINE SHOULD BE LAID OUT TO CREATE A CONSISTENT 5' SIDEWALK PARALLEL TO TANGENT SECTIONS OF THE PROPOSED CURB



JOINT LOCATION DETAIL
ADJACENT TO BUILDINGS

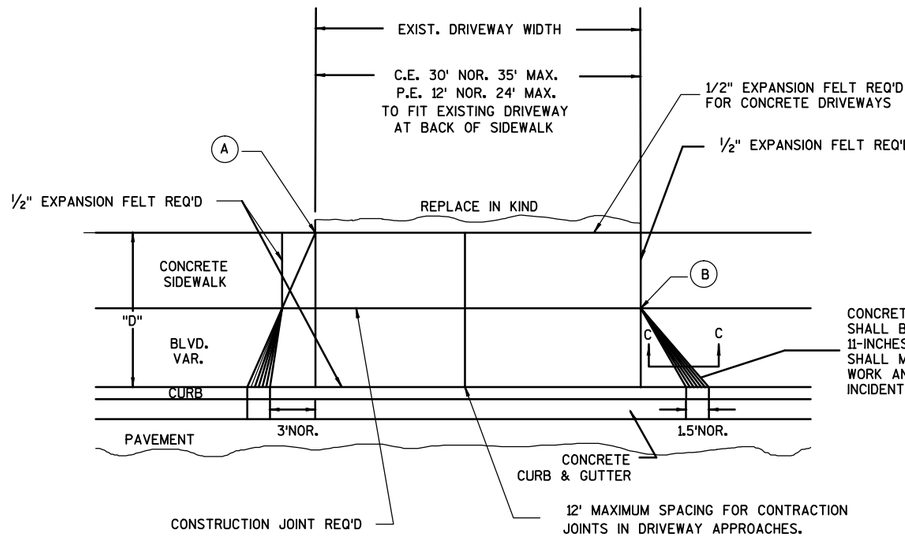




DETAIL OF CURB AND GUTTER AT INLETS

2

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER

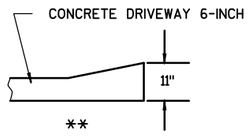


CONCRETE IN THE 1.5' TAPER AREA SHALL BE TAPERED TO A DEPTH OF 11-INCHES AND THE EXPANSION FELT SHALL MATCH THIS DEPTH. THIS WORK AND MATERIAL WILL BE INCIDENTAL TO THE BID ITEM.

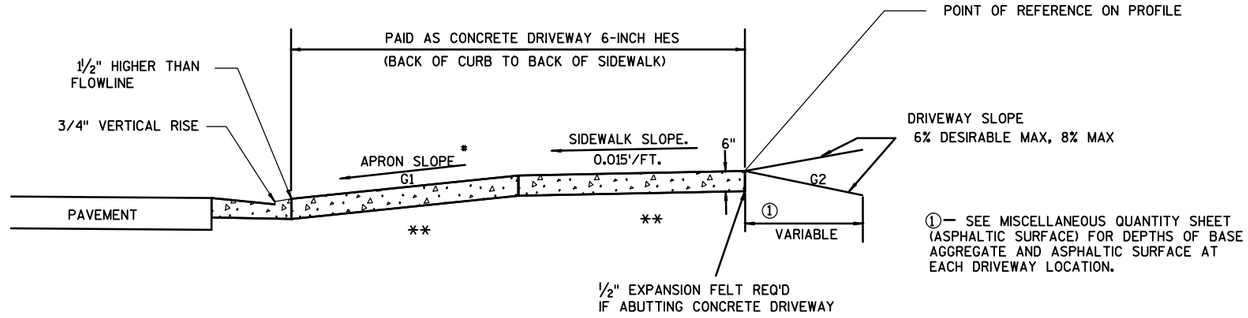
PLAN VIEW

Ⓐ WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK

Ⓑ WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF SIDEWALK



SECTION C-C



① — SEE MISCELLANEOUS QUANTITY SHEET (ASPHALTIC SURFACE) FOR DEPTHS OF BASE AGGREGATE AND ASPHALTIC SURFACE AT EACH DRIVEWAY LOCATION.

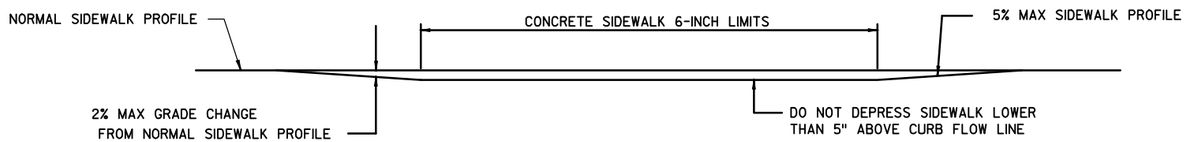
TYPICAL SIDEWALK SECTION

*

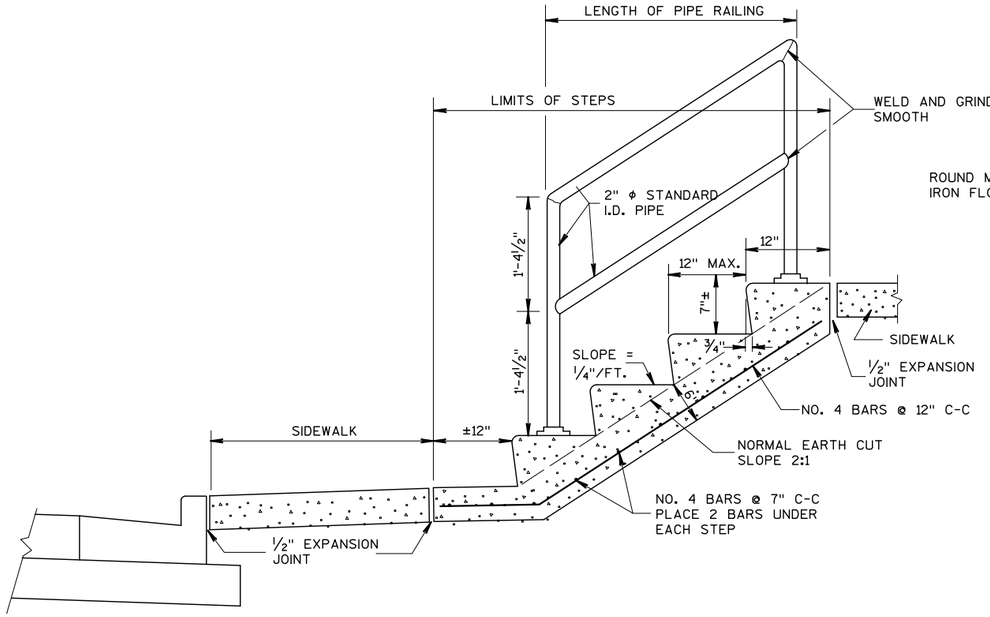
TERRACE WIDTH	APRON SLOPE (G1) MIN %	DESIRABLE %	MAX %
3 FT	7.0	8.5	9.0
4 FT	5.0	7.0	9.0
5 FT	4.0	7.0	9.0
6 FT	4.0	7.0	9.0
7 FT	3.5	7.0	9.0
8 FT	3.0	7.0	9.0

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

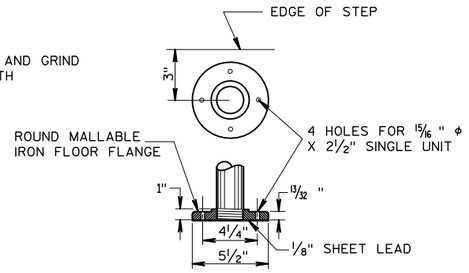
DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE



DEPRESSED SIDEWALK PROFILE DETAIL



CONCRETE STEPS DETAIL



FLANGE DETAIL

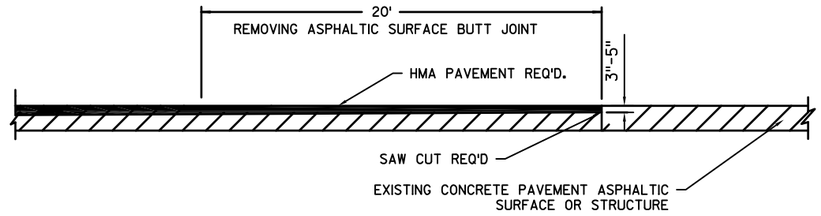
NOTE:

THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STEEL REINFORCEMENT AND PIPE RAILING NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.

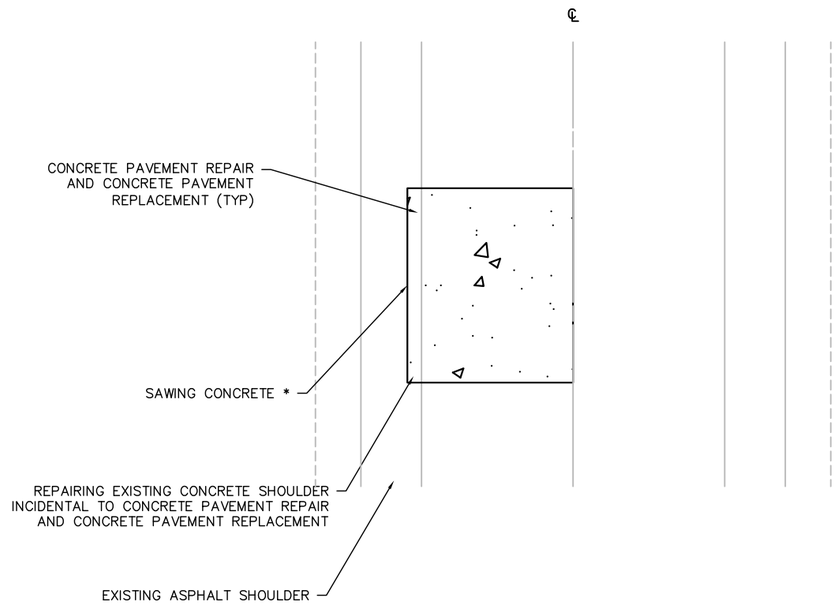
MINIMUM WIDTH OF STEP EQUALS 4 FEET.

RAILING TO BE PLACED ON LEFT ASCENDING SIDE OF STEPS ONLY.



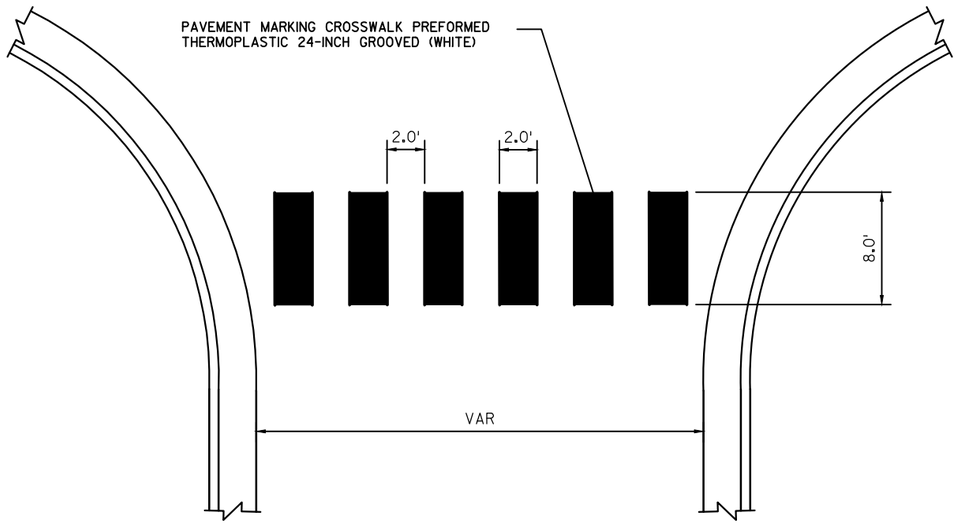
DETAIL OF BUTTED JOINT

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.



CONCRETE PAVEMENT REPAIR/REPLACEMENT DETAIL

* IF CONTRACTOR CANNOT PROTECT EXISTING SHOULDER DURING CONCRETE REMOVAL . CONTRACTOR SHOULD PROVIDE CLEAN SAWED EDGE FOR REPAIR.



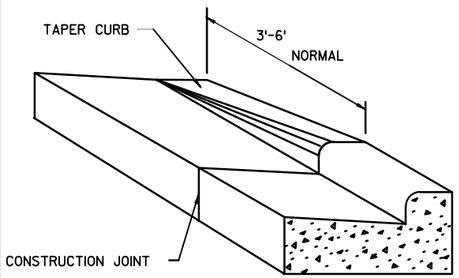
PAVEMENT MARKING CROSSWALK DETAIL

1. PAINTED AREAS TO BE CENTERED ON CENTERLINE AND LANE LINES.
2. A MINIMUM OF 1.5 FEET CLEAR DISTANCE SHALL BE LEFT ADJACENT TO THE CURB. IF THE LAST PAINTED AREA FALLS INTO THIS DISTANCE, IT MUST BE OMITTED.
3. THE BLOCKS SHALL BE PLACED SO THAT THEY ARE NOT LOCATED IN THE WHEEL PATH OF THE VEHICLES.

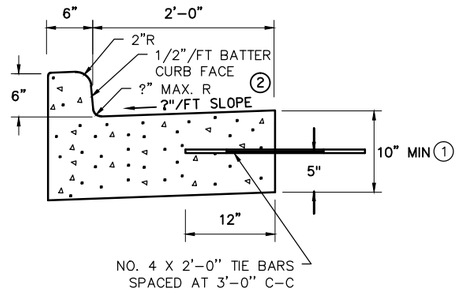
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 20.96 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 18.17 ACRES



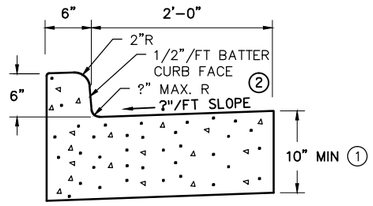
CURB & GUTTER TERMINI



CONCRETE CURB & GUTTER
30" TYPE A SPECIAL

NOTES:

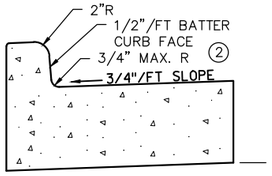
1. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 10" MINIMUM GUTTER THICKNESS IS MAINTAINED.
2. REVERSE SLOPE IN MEDIAN LOCATIONS.



CONCRETE CURB & GUTTER
30" TYPE D SPECIAL

NOTES:

1. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 10" MINIMUM GUTTER THICKNESS IS MAINTAINED.
2. REVERSE SLOPE IN MEDIAN LOCATIONS.

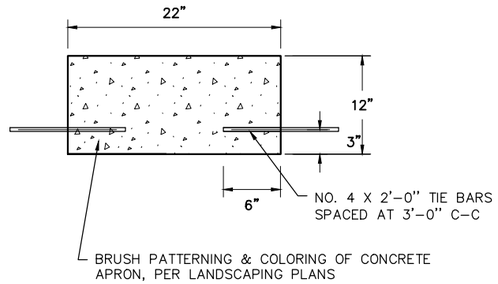


CONCRETE CURB & GUTTER 30–INCH TYPE D SPECIAL

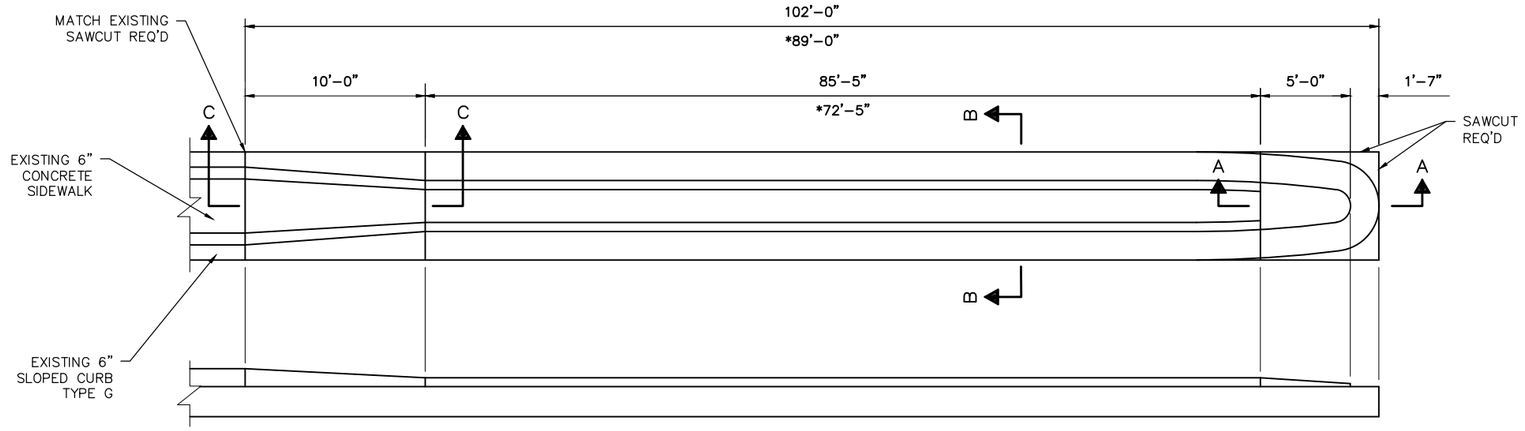
NOTES:

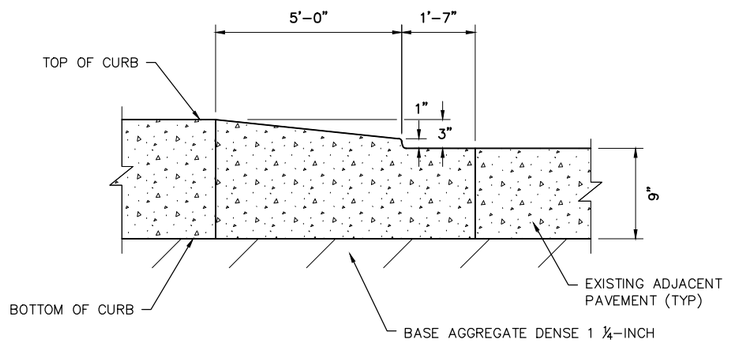
① THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 10" MINIMUM GUTTER THICKNESS IS MAINTAINED.

② REVERSE SLOPE IN MEDIAN LOCATIONS.

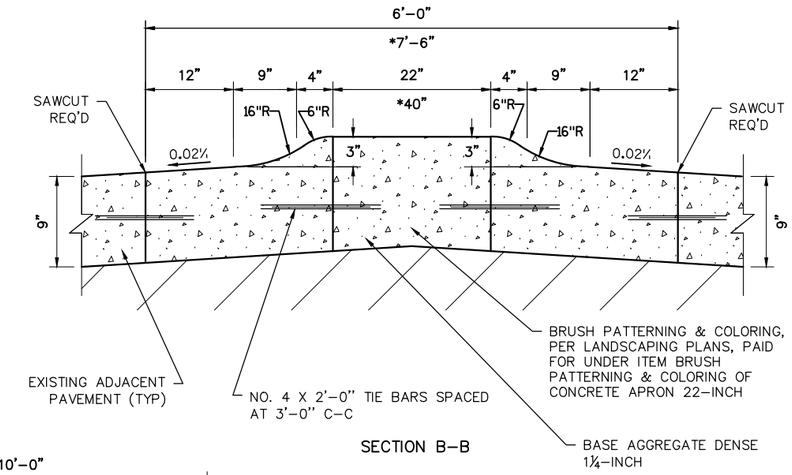


CONCRETE APRON 22–INCH

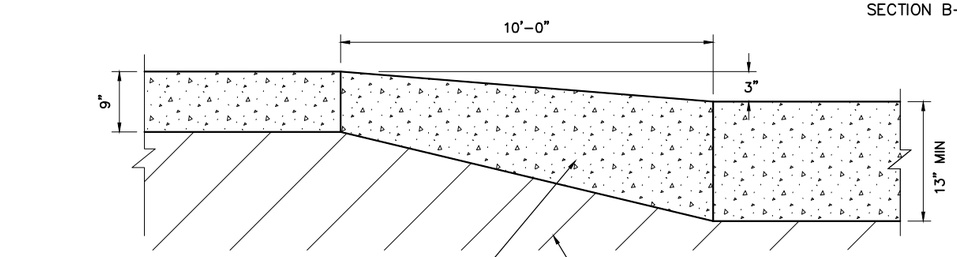




SECTION A–A



SECTION B–B

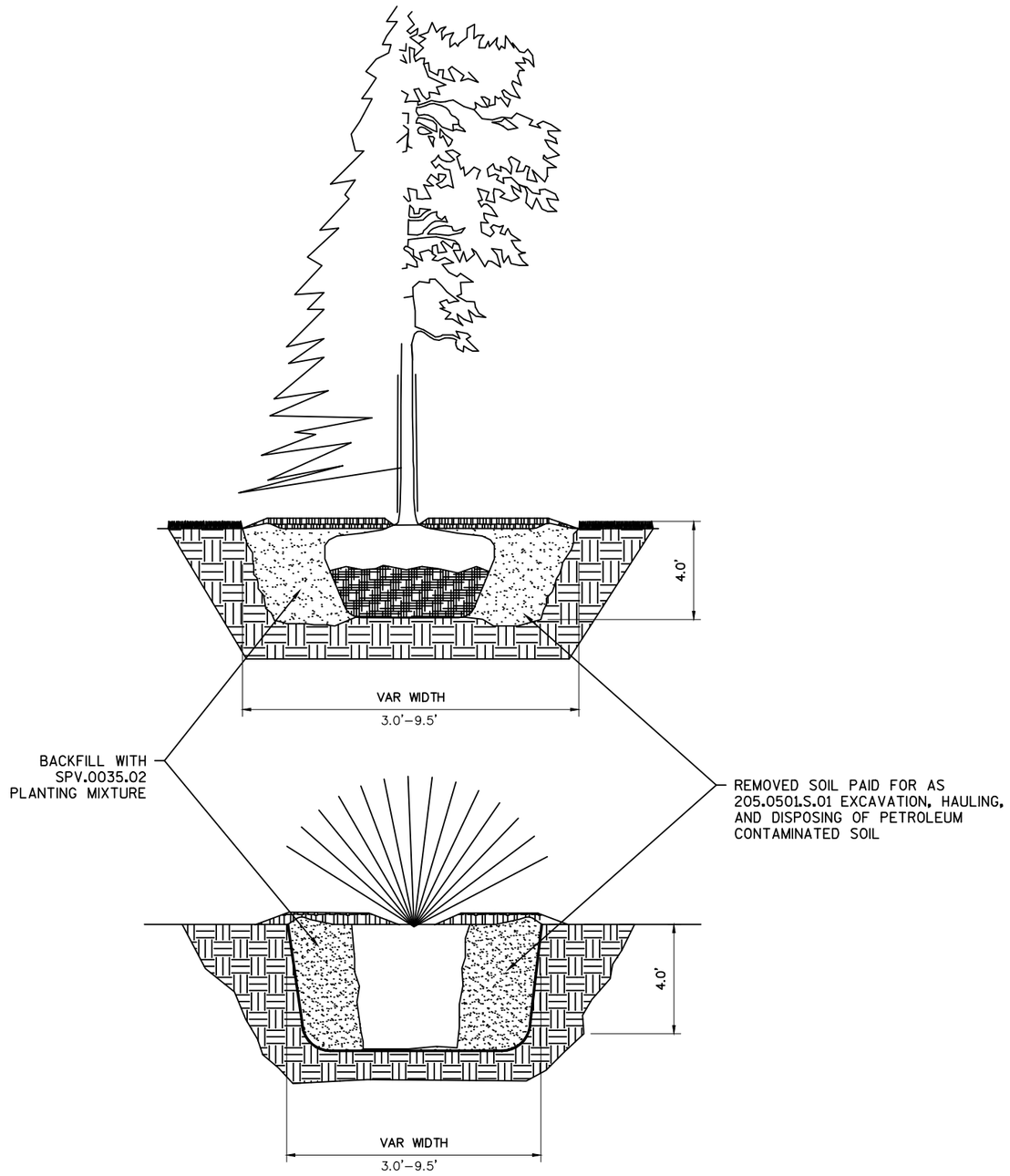


SECTION C–C

* NORTH SIDE OF BELKNAP

CONCRETE CURB MEDIAN 3–INCH SLOPED

2

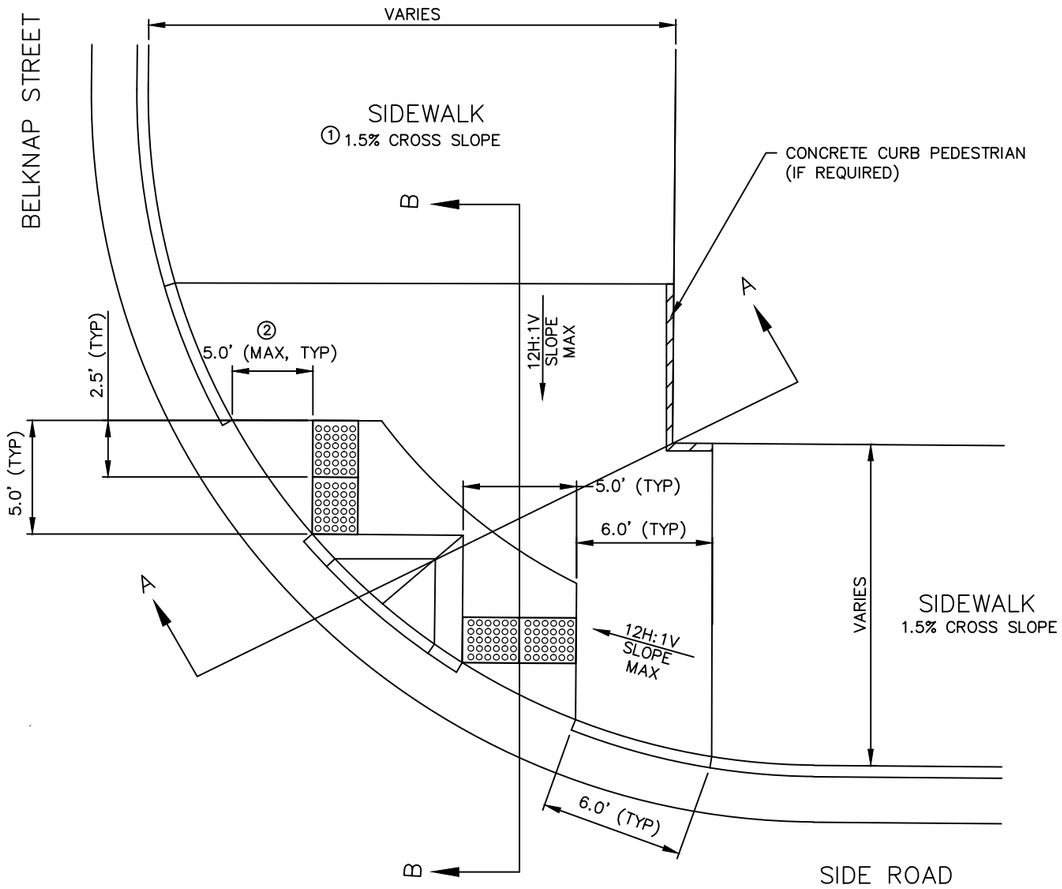


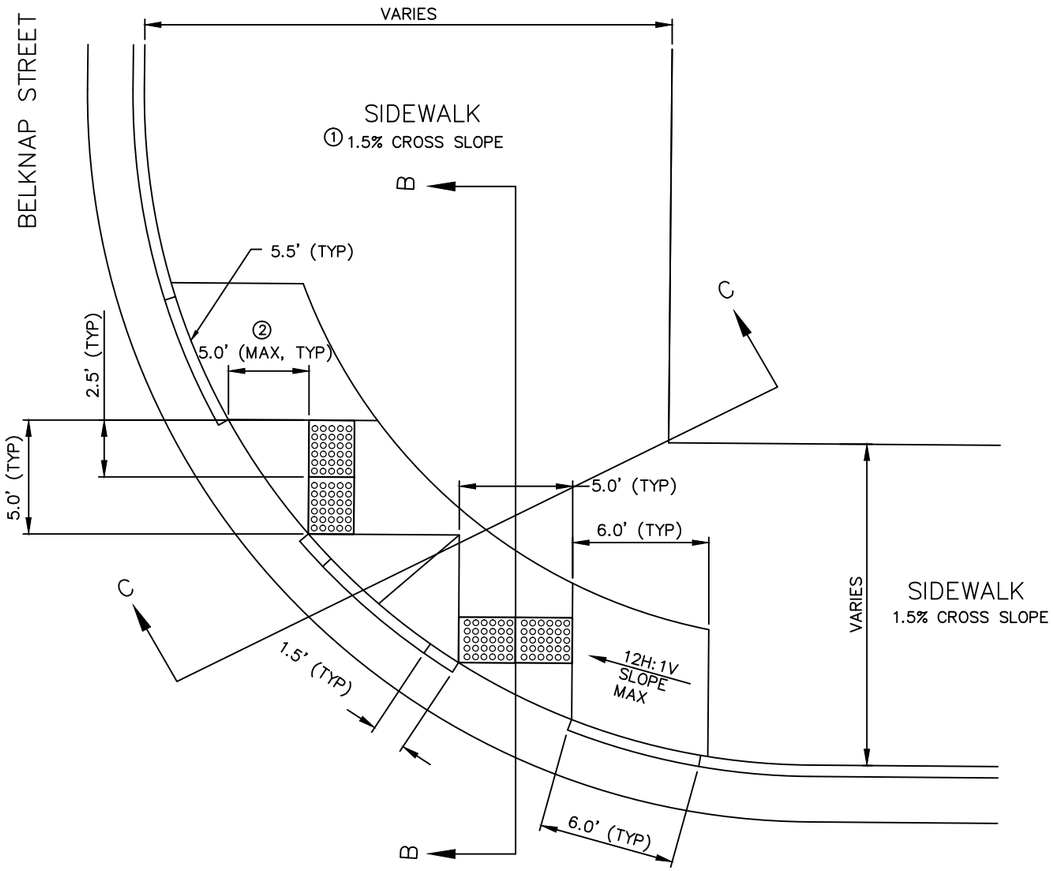
EXCAVATION FOR CONTAMINATED MATERIALS IN LANDSCAPING BEDS

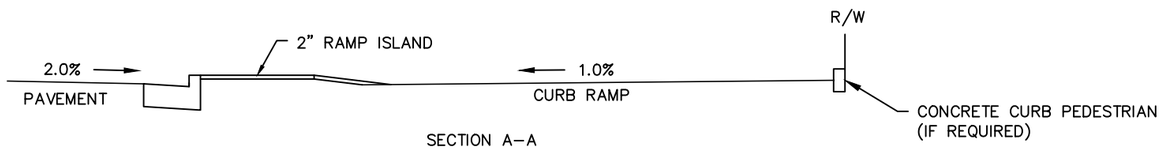
STA	STA		LOCATION	TYPE	DEPTH	WIDTH
143+40	144+65	RT	Library	Trees and Shrubs	4'	9.5'
144+60	145+00	LT	NW Ogden	Shrubs	4'	3'
145+45	146+75	RT	SE Ogden- First Merit	Trees and Shrubs	4'	6'
298+50	299+50	RT	John-Hardees	Shrubs	4'	5'
149+20	150+25	RT	John-Hardees	Trees and Shrubs	4'	4.5'
166+00	167+40	RT	SW Grand/Lamborn	Trees and Shrubs	4'	3'
168+00	169+35	RT	SE Grand/Lamborn	Trees and Shrubs	4'	3'
179+25	180+20	LT	NE Fisher Sportmans Choice	Trees and Shrubs	4'	5'
180+00	180+75	RT	BK	Trees and Shrubs	4'	4.5'
181+15	182+15	RT	SW Catlin - UWS	Trees and Shrubs	4'	14'
192+15	192+70	LT	NE Poplar- Freedom Gas	Trees and Shrubs	4'	5'
500+60	500+85	LT	NW Hill Ave	Trees and Shrubs	4'	9'

NOTE: REMOVE CONTAMINATED SOILS DURING EARTHWORK PHASE OF EACH STAGE OF CONSTRUCTION, BACKFILL WITH CLEAN PLANTING MIXTURE PER SPECIAL PROVISION

EXCAVATION FOR CONTAMINATED MATERIALS
IN LANDSCAPING BEDS DETAIL



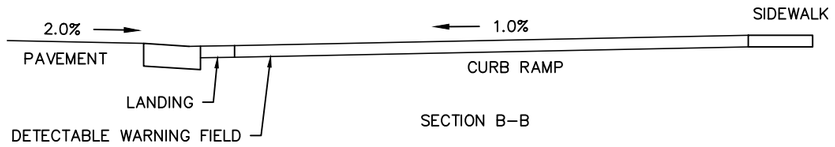




SECTION A–A



SECTION C–C



SECTION B–B

TYPE 2 MODIFIED

OPTION 1

NOTES:

① ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

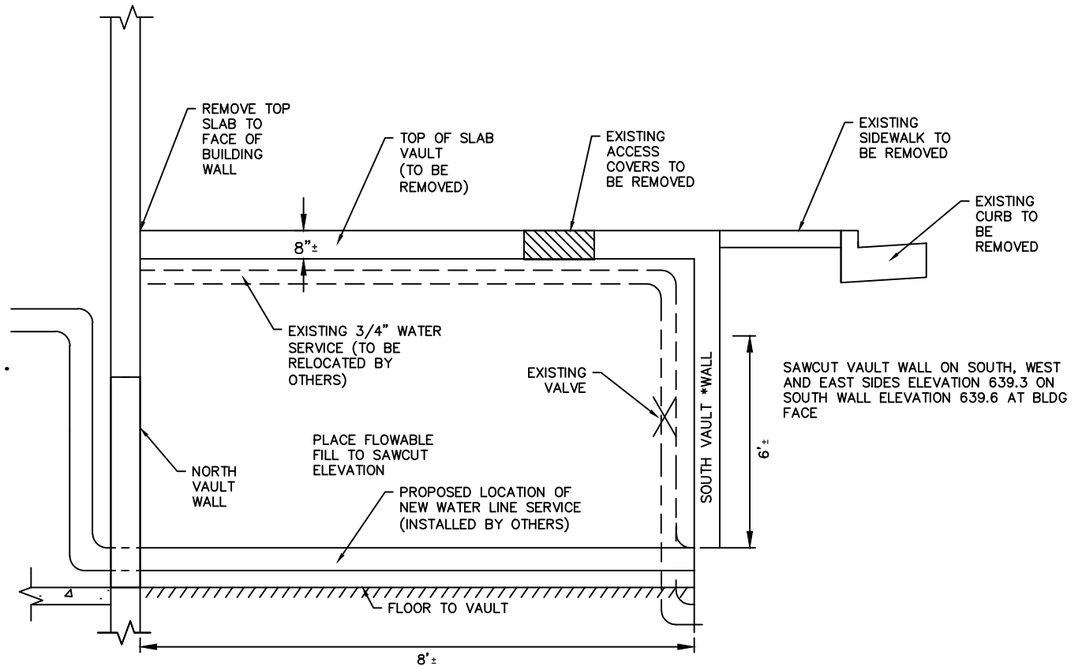
② WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

SECTION D–D

TYPE 2 MODIFIED

OPTION 2

PROJECT NO:8680–00–71	HWY:US 2 – BELKNAP STREET	COUNTY:DOUGLAS	PLAN: CONSTRUCTION DETAIL	SHEET 37	E

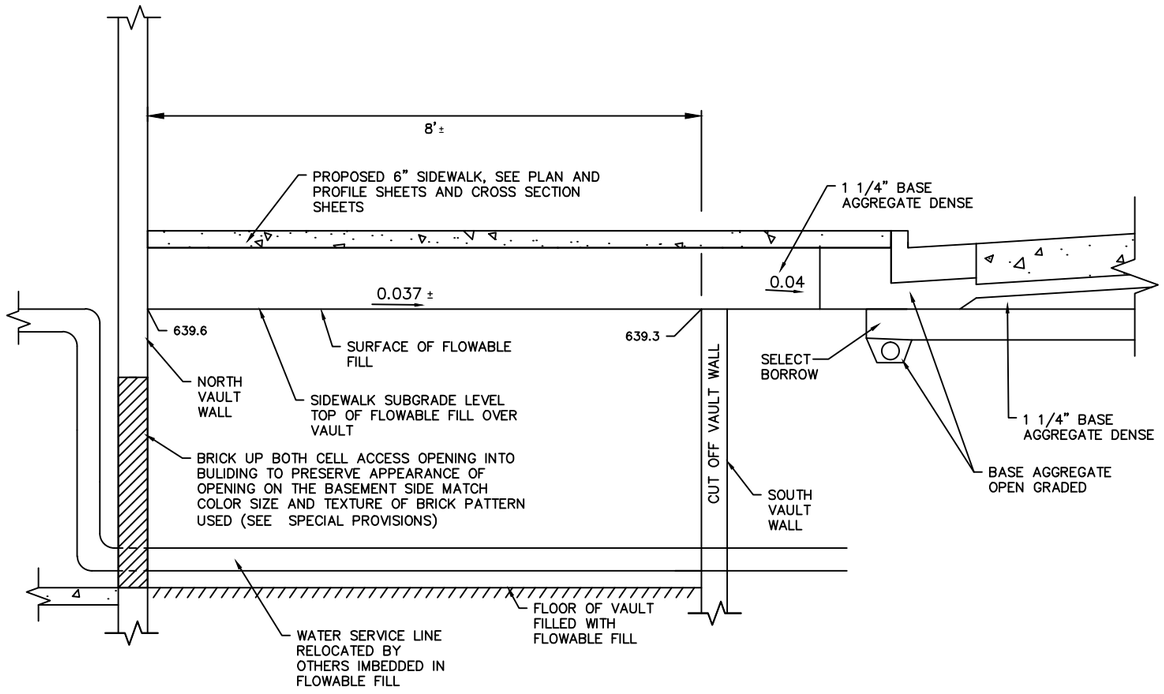


*TO REMAIN BELOW SAWCUT ELEVATIONS

NOTE: TWO ADJACENT VAULT CELLS APPROXIMATELY 17' LONG IN TOTAL SHARE A COMMON WALL AND ARE PARALLEL TO BELKNAP STREET

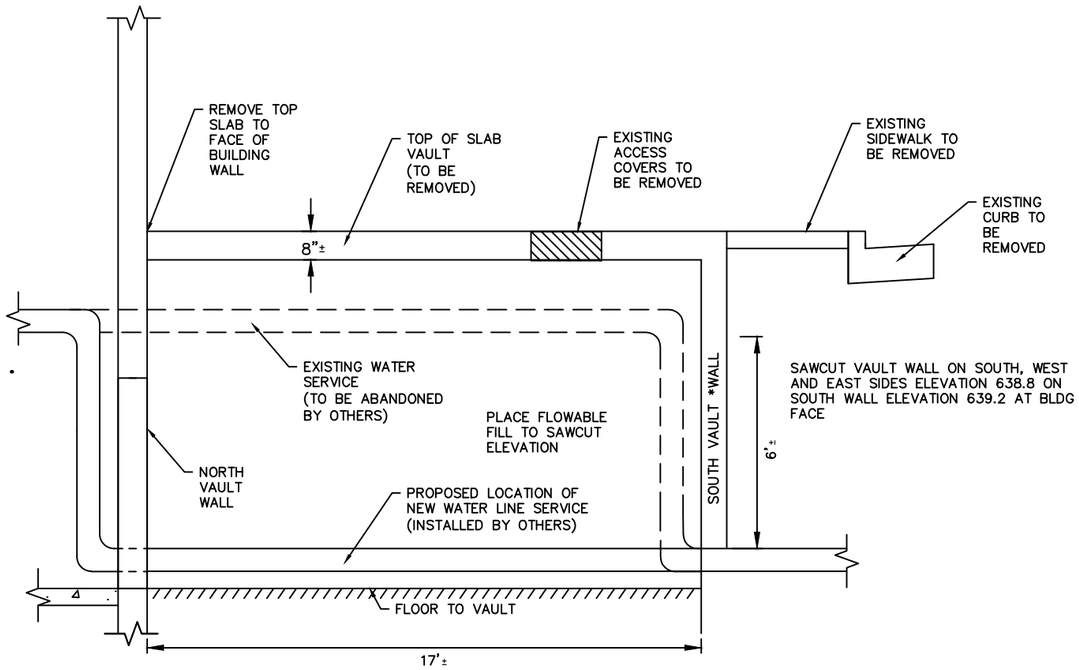
VAULT ABANDONMENT AND STABILIZATION

STA 150+50± LT



RECONSTRUCTION OVER VAULT

STA 150+50± LT

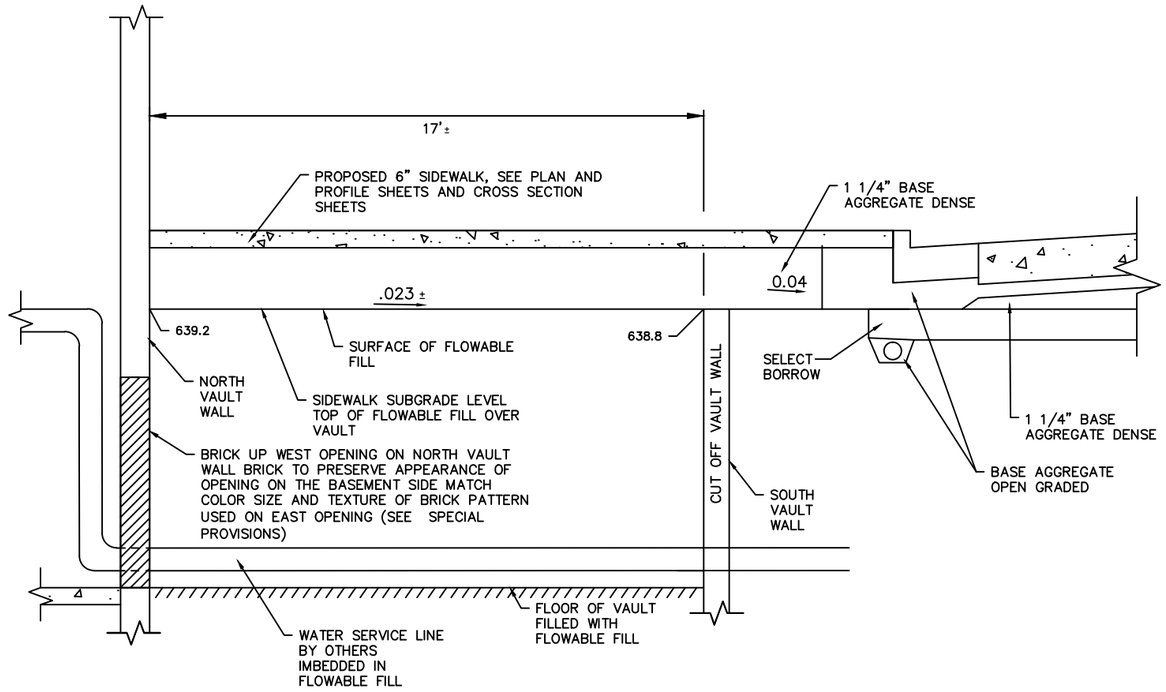


*TO REMAIN

NOTE: VAULT IS APPROXIMATELY 24' LONG PARALLEL TO BELKNAP STREET

VAULT ABANDONMENT AND STABILIZATION

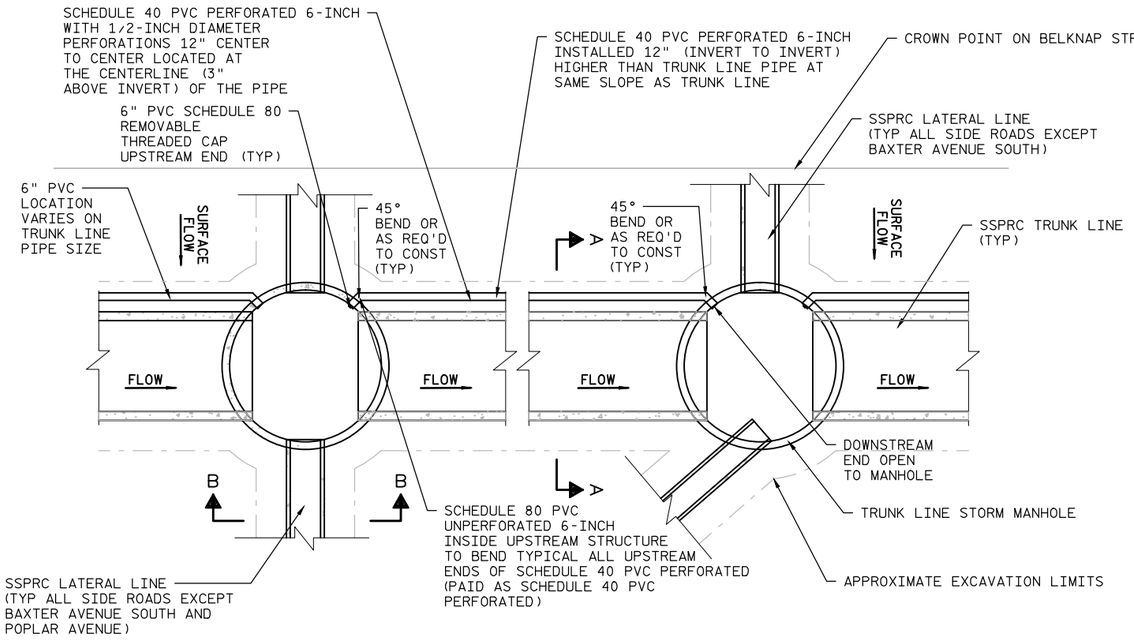
STA 151+60



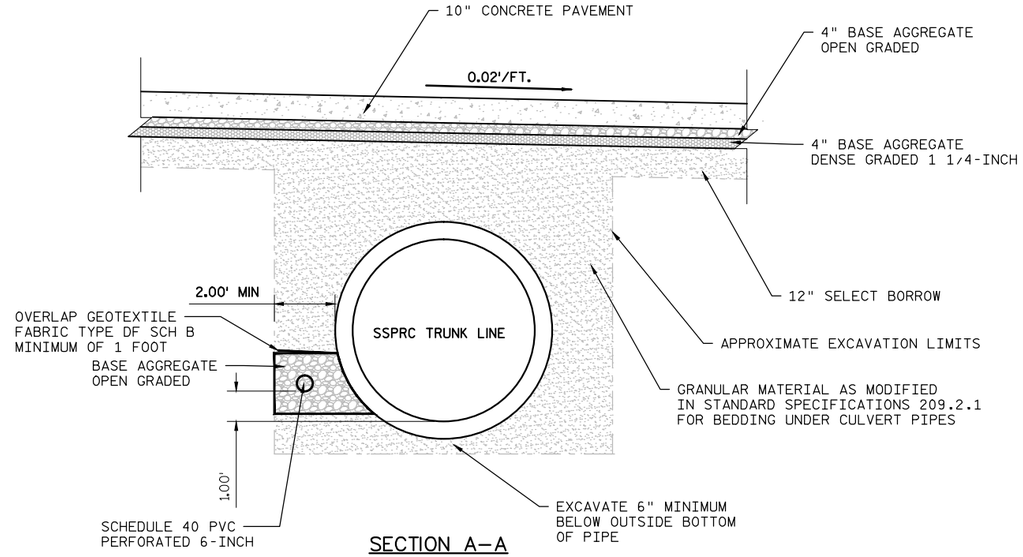
RECONSTRUCTION OVER VAULT

STA 151+60

SCHEDULE 40 PVC PERFORATED 6-INCH BID ITEM
TO BE MEASURED BY THE LINEAL FOOT FROM CENTER
OF STRUCTURE TO CENTER OF STRUCTURE. PAYMENT
FOR SCHEDULE 80 PVC PERFORATED 6-INCH IS FULL
COMPENSATION FOR PROVIDING ALL MATERIALS, INCLUDING
FITTINGS AND PLUGS, CONNECTIONS REQUIRED, FOR EXCAVATING,
FOR PROVIDING GRANULAR BACKFILL MATERIAL, GEOTEXTILE FABRIC
TYPE DF SCHEDULE B, COMPACTING MATERIAL, AND BASE
AGGREGATE OPEN GRADED.



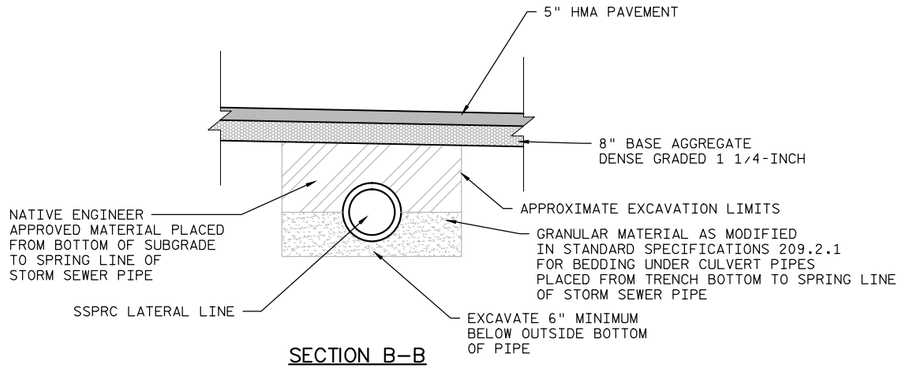
STORM SEWER TRENCH DRAIN PLAN VIEW



SECTION A–A

TYPICAL TRUNK LINE INSTALLATIONS

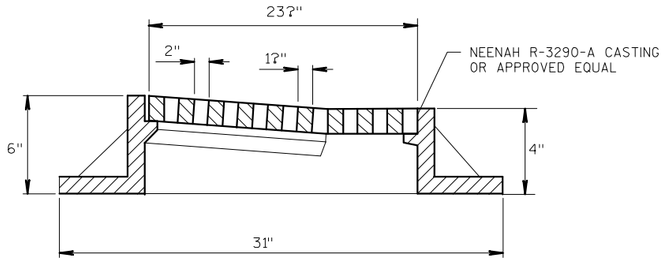
BELKNAP STREET STORM MANHOLE 1 - STORM MANHOLE 25
POPLAR AVENUE STORM MANHOLE 25 - STORM MANHOLE 26
BAXTER AVENUE STORM MANHOLE 14E - STORM MANHOLE 14

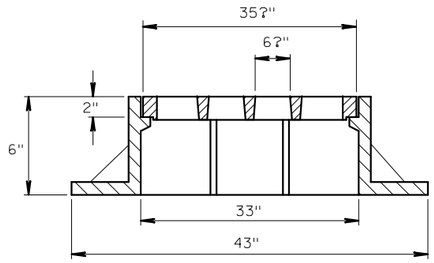


SECTION B–B

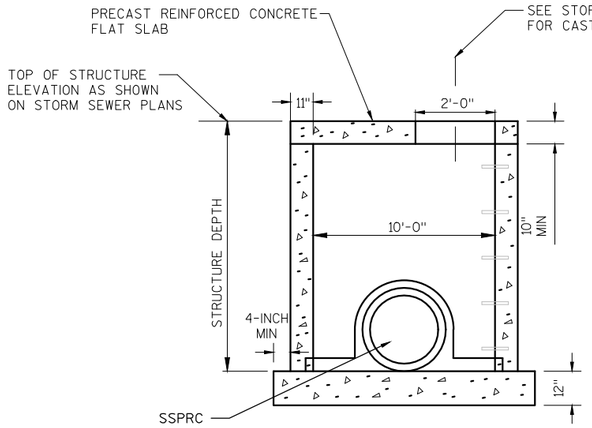
TYPICAL LATERAL LINE INSTALLATIONS

ALL STORM SEWER PIPE INSTALLED NOT LISTED IN
AS TRUNK LINE BEING INSTALLED AS SHOWN
IN SECTION A-A ABOVE





INLET COVERS TYPE H-D DETAIL



STATIONS AND OFFSETS ARE SHOWN IN STORM SEWER PLANS ARE TO THE CENTER OF STRUCTURE. THESE OFFSETS COULD CHANGE TO AVOID CASTING PLACEMENT IN THE TRAVEL LANE WHEEL PATHS.

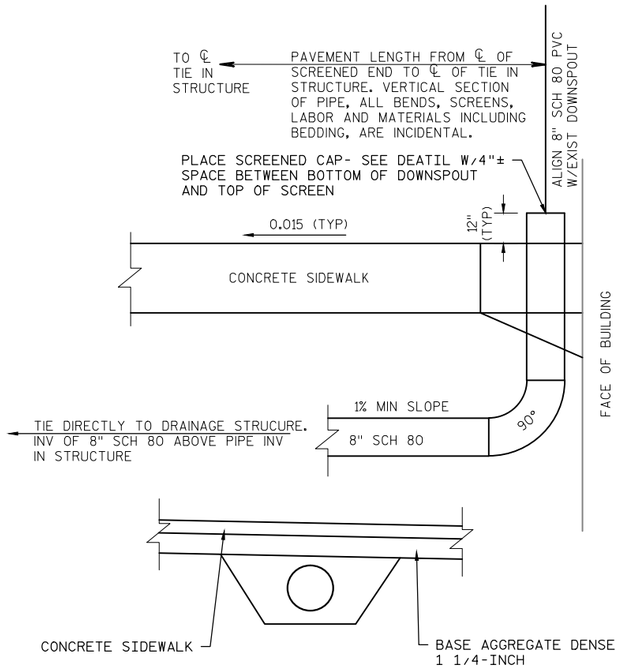
STRUCTURES TO BE DESIGNED TO MEET ALL APPLICABLE ASTM AND WISDOT REQUIREMENTS.

SEE STANDARD DETAIL DRAWING MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT & 8-FT DIAMETER FOR ADDITIONAL STUCTURE INFORMATION.

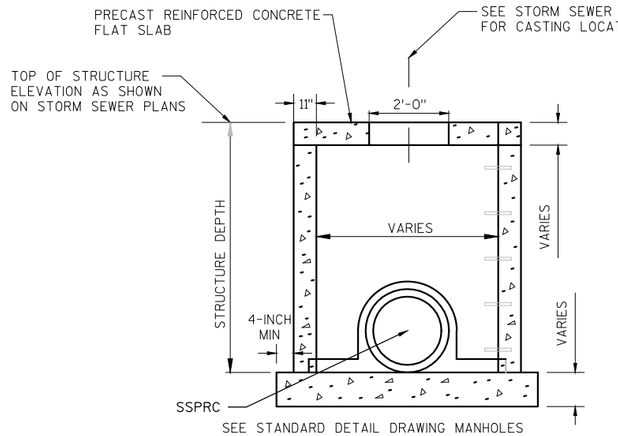
LOCATE MANHOLE TOP SO OPENING ALLOWS FOR EASY ACCESS TO THE STEPS AND OUT OF TRAVEL WHEEL PATH.

SEE STORM SEWER TRENCH DRAIN DETAIL.

MANHOLES 10-FT DIAMETER



ROOF DRAIN



STATIONS AND OFFSETS ARE SHOWN IN STORM SEWER PLANS ARE TO THE CENTER OF STRUCTURE, 1.0' FROM BACK OF CURB (TOWARDS CENTERLINE). THESE OFFSETS COULD CHANGE TO DEPENDING ON OPENING LOCATION ON FLAT SLAB COVER. ADJUST STRUCTURE LOCATION TO ENSURE CENTER OF FLAT SLAB COVER OPENING IS 1.0' TOWARDS THE STREET FROM FINISHED BACK OF CURB.

STRUCTURES TO BE DESIGNED TO MEET ALL APPLICABLE ASTM AND WISDOT REQUIREMENTS.

SEE STANDARD DETAIL DRAWING MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT & 8-FT DIAMETER AND MANHOLES 10-FT DIAMETER DETAIL ABOVE FOR ADDITIONAL STUCTURE INFORMATION. STRUCTURES TO BE BUILT AS MANHOLES OF THE SAME DIAMETER WITH A 2'x3' OPENING AS SHOWN ON THE STANDARD DETAIL DRAWING FOR INLETS 4-FT DIAMETER.

SEE STORM SEWER TRENCH DETAIL.

INLETS 5, 6, 7, 8, & 10-FT DIAMETER

STA 501+54.10, 34.4' LT
MATCH EXISTING GROUND
X=153686.809
Y=305550.695

STA 501+54.60, 62.6' LT
MATCH EXISTING GROUND
X=153658.592
Y=305550.907

STA 501+48.10, 28.5' LT
MATCH EXISTING GROUND
X=153692.763
Y=305544.756

STA 501+48.70, 68.7' LT
MATCH EXISTING GROUND
X=153652.547
Y=305544.952

629
628
627
626

4:1

INLET 45F

STA 501+40.50, 56.4' LT
1.0' RADIUS TO 626 CONTOUR
X=153664.962
Y=305536.899

SEE STORM SEWER PLANS
FOR MORE INFORMATION

INLET 45H

STA 501+40.30, 43.8' LT
1.0' RADIUS TO 626 CONTOUR
X=153677.496
Y=305536.804

STA 501+33.37, 37.1' LT
END OF PIPE
INVERT 12" RCP = 625.70
5 CY RIPRAP MEDIUM
10 SY GEOTEXTILE FABRIC TYPE HR

COVER BOTTOM AND SIDE SLOPES OF STORM WATER BASIN WITH 6 INCHES OF TOPSOIL. SEED, FERTILIZE, AND MULCH BASIN.

FINISHED GRADE CONTOUR

BOTTOM OF STORM WATER
BASIN ELEVATION = 625.70

4:1

3:1

STA 500+95.00, 55.1' LT
1.0' RADIUS TO 626 CONTOUR
X=153666.694
Y=305491.343

626
627
628
629
630

STA 500+92.80, 28.5' LT
MATCH EXISTING GROUND
X=153693.279
Y=305489.505

501+00

HILL AVENUE

STA 500+78.30, 69.9' LT
MATCH EXISTING GROUND
X=153652.018
Y=305474.533

3:1

STA 500+90.72, 41.0' LT
END OF PIPE
INVERT 12" RCP = 626.45

STA 500+85.30, 33.6' LT
MATCH EXISTING GROUND
X=153688.331
Y=305481.909

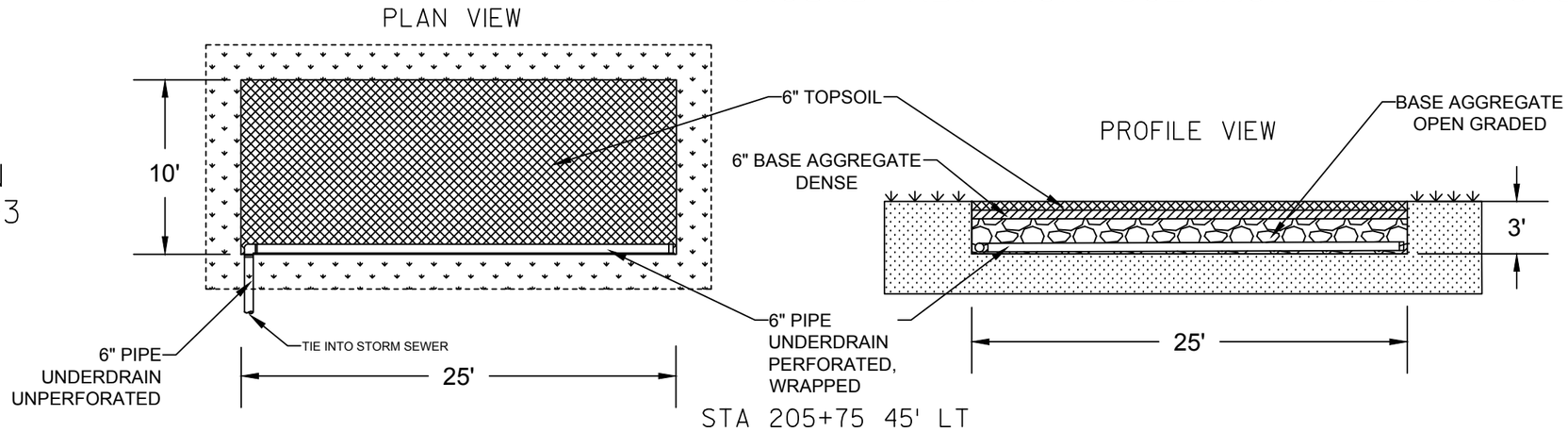
STA 500+73.50, 60.2' LT
MATCH EXISTING GROUND
X=153661.831
Y=305469.855

STA 500+98.60, 45.3' LT
1.0' RADIUS TO 626 CONTOUR
X=153676.419
Y=305495.130

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP STREET	COUNTY:DOUGLAS	CONSTRUCTION DETAIL	SHEET 42	E

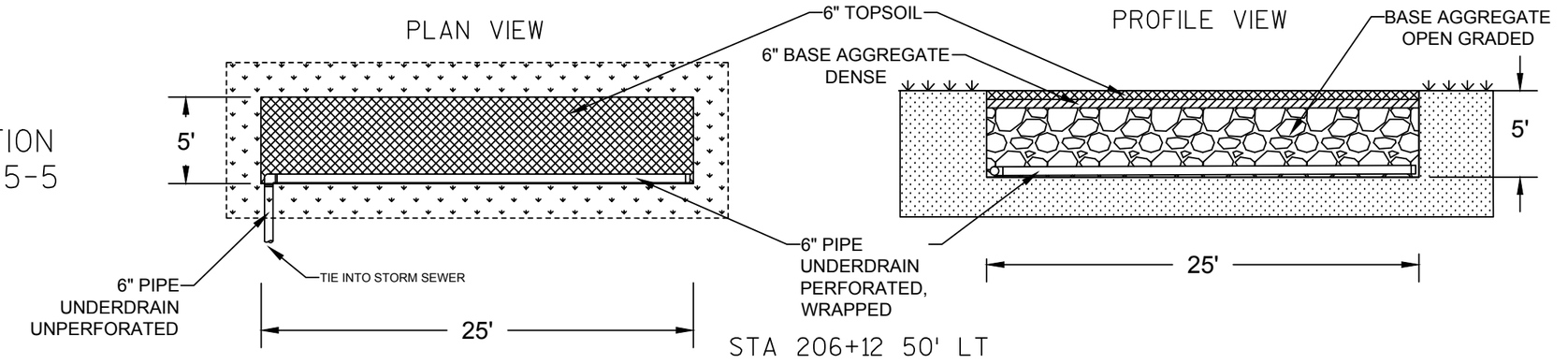
GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION DETAIL

OPTION BA-10-3



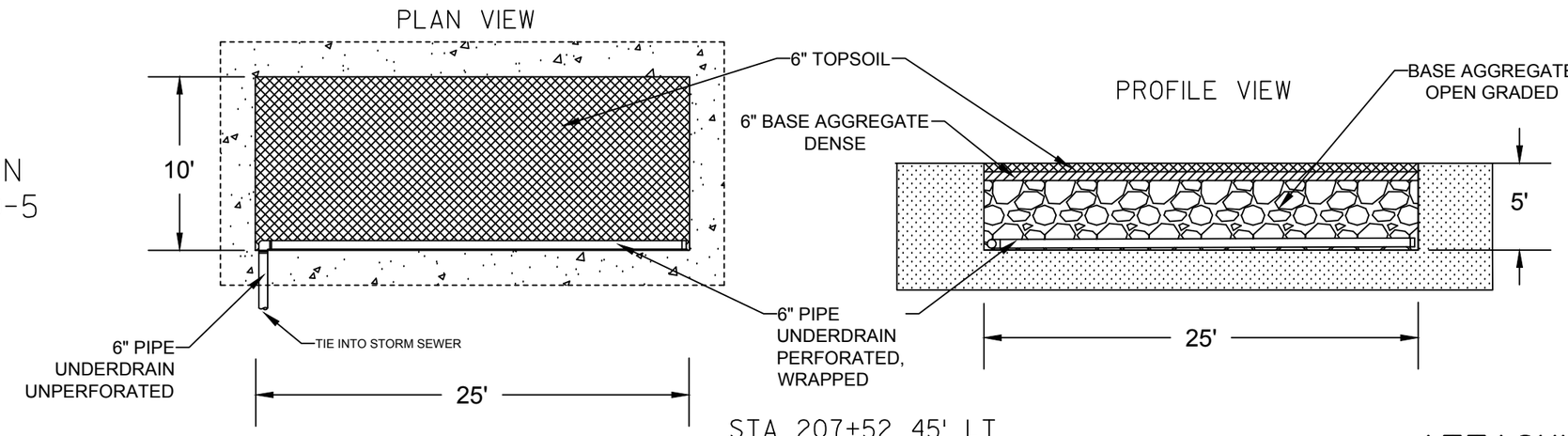
STA 205+75 45' LT

OPTION BA-5-5



STA 206+12 50' LT

OPTION BA-10-5



STA 207+52 45' LT

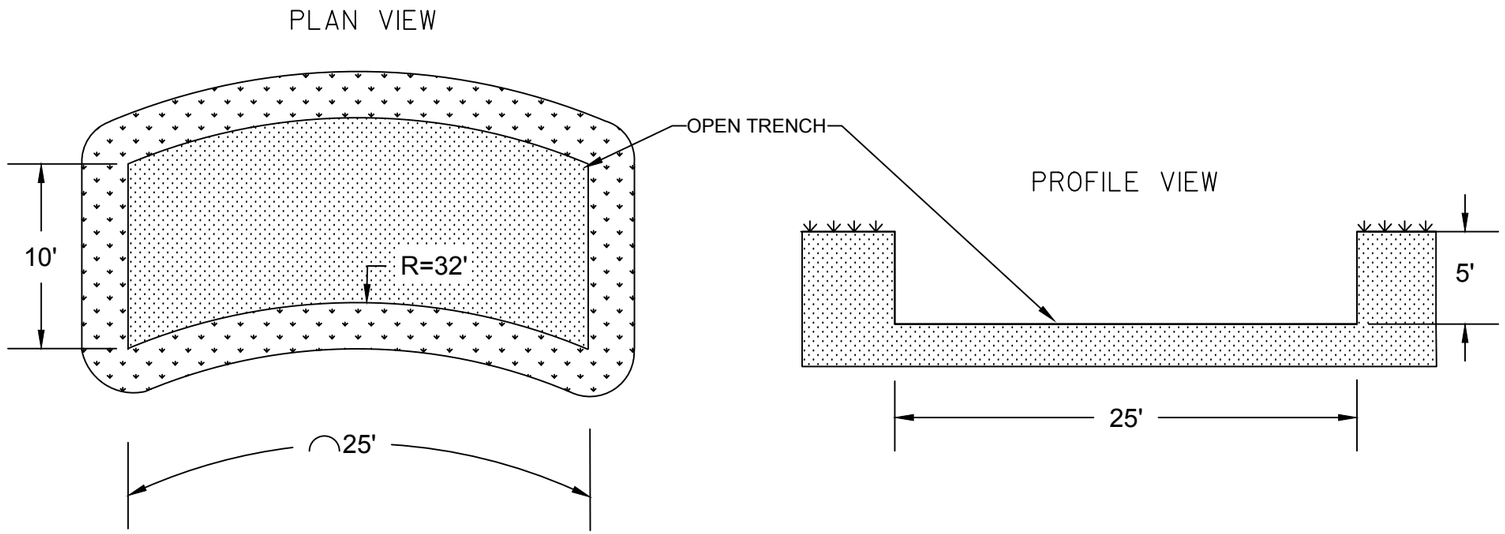
ATTACHMENT 1 PAGE 1/7

PROJECT NO: 8680-00-71	HWY: USH 2, BELKNAP STREET	COUNTY: DOUGLAS	CONSTRUCTION DETAIL: VIBRATION ABATEMENT	SHEET 43	E

FILE NAME : N:\PDS\C3D\86800001\SHEETSPLAN\CONSTRUCTION-DETAILS\021010_VIB_RESEARCH.DWG
LAYOUT NAME - 021010_VIB_RESEARCH - PLAN 1 IN 10 FT
PLOT DATE : 5/26/2016 12:28 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

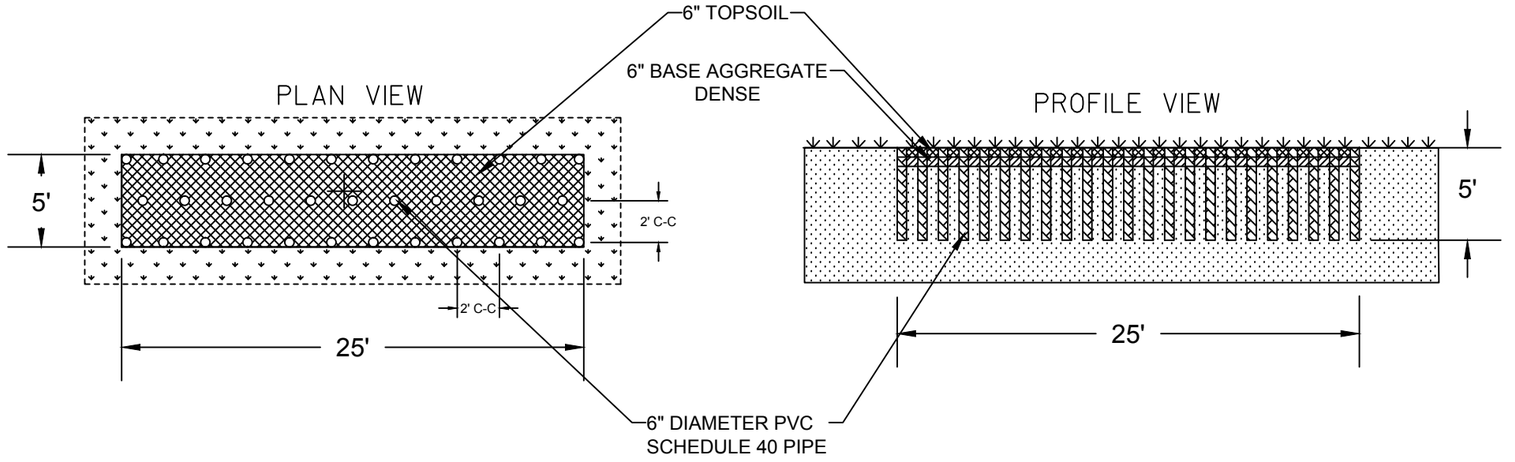
GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION DETAIL

OPTION
T-10-5



STA 208+82 65' LT

OPTION
PA-5-5



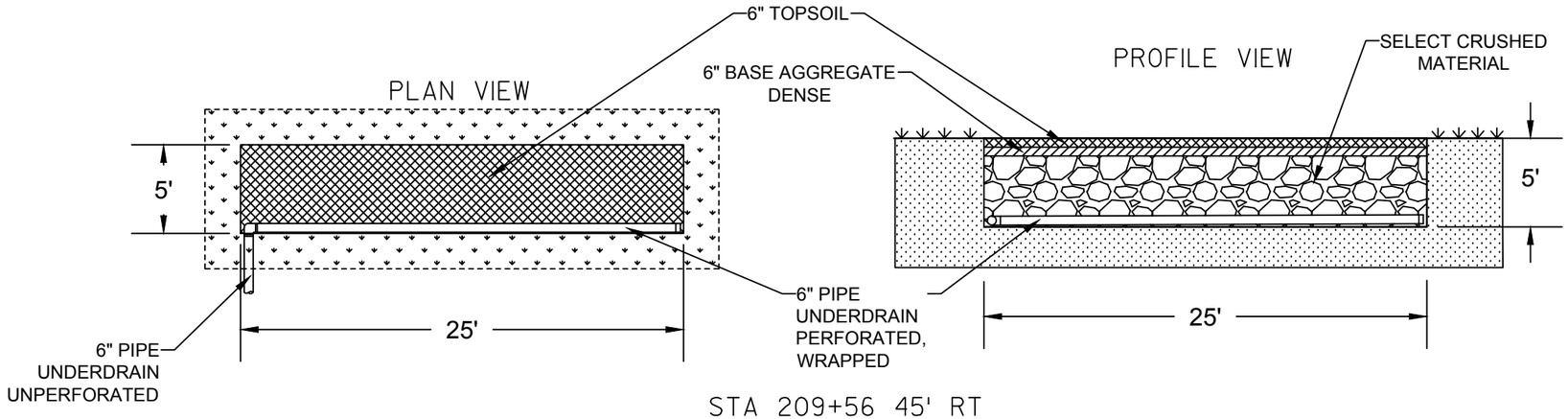
STA 209+33 39' LT

ATTACHMENT 1 PAGE 2/7

PROJECT NO:8680-00-71	HWY:USH 2, BELKNAP STREET	COUNTY:DOUGLAS	CONSTRUCTION DETAIL: VIBRATION ABATEMENT	SHEET 44	E

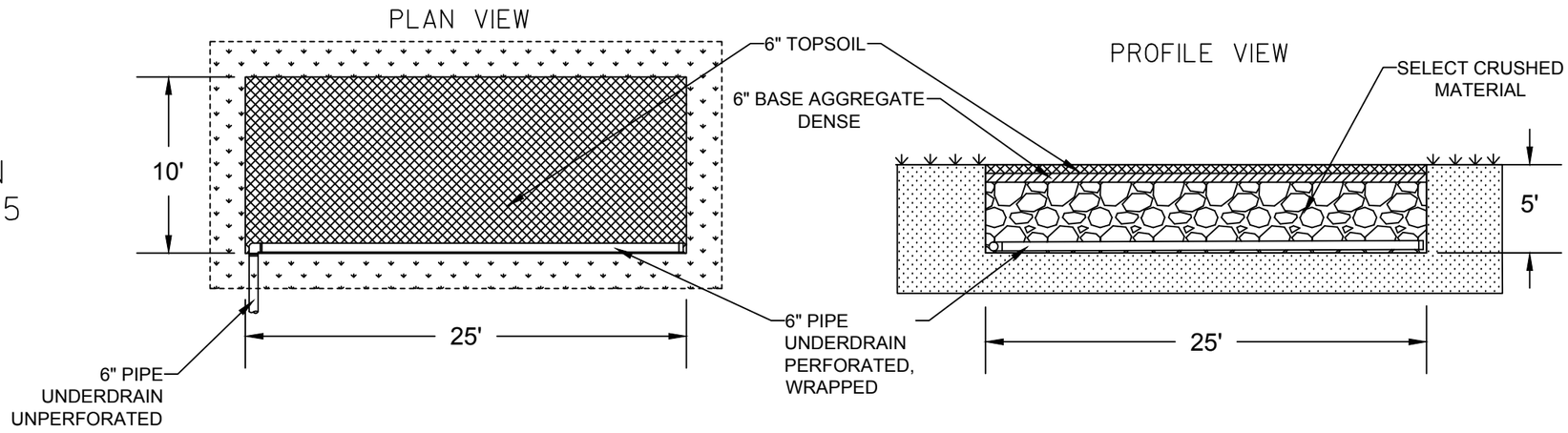
GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION DETAIL

OPTION
SC-5-5



STA 209+56 45' RT

OPTION
SC-10-5



STA 210+03 40' RT

ATTACHMENT 1 PAGE 3/7

PROJECT NO: 8680-00-71	HWY: USH 2, BELKNAP STREET	COUNTY: DOUGLAS	CONSTRUCTION DETAIL: VIBRATION ABATEMENT	SHEET 45	E

FILE NAME : N:\PDS\C3D\86800001\SHEETSPLAN\CONSTRUCTION-DETAILS\021010_VIB_RESEARCH.DWG
LAYOUT NAME - 021010_VIB_RESEARCH - PLAN 1 IN 10 FT (3)
PLOT DATE : 5/26/2016 12:28 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION LAYOUT

2

2

N

SEISMOGRAPHS

OPTION BA-10-3
STA 205+75 45' LT
10'x25'x3' TRENCH
BASE AGGREGATE
OPEN GRADED
(SEE CONST. DETAIL)

OPTION BA-5-5
STA 206+12 50' LT
5'x25'x5' TRENCH
BASE AGGREGATE
OPEN GRADED
(SEE CONST. DETAIL)

25'

5'

5'

25'

13.7'

27.4'

17.4'

12.3'

CONSTRUCTION EQUIPMENT TEST ZONE

205+50.00

206+00.00

PC: 206+43.92

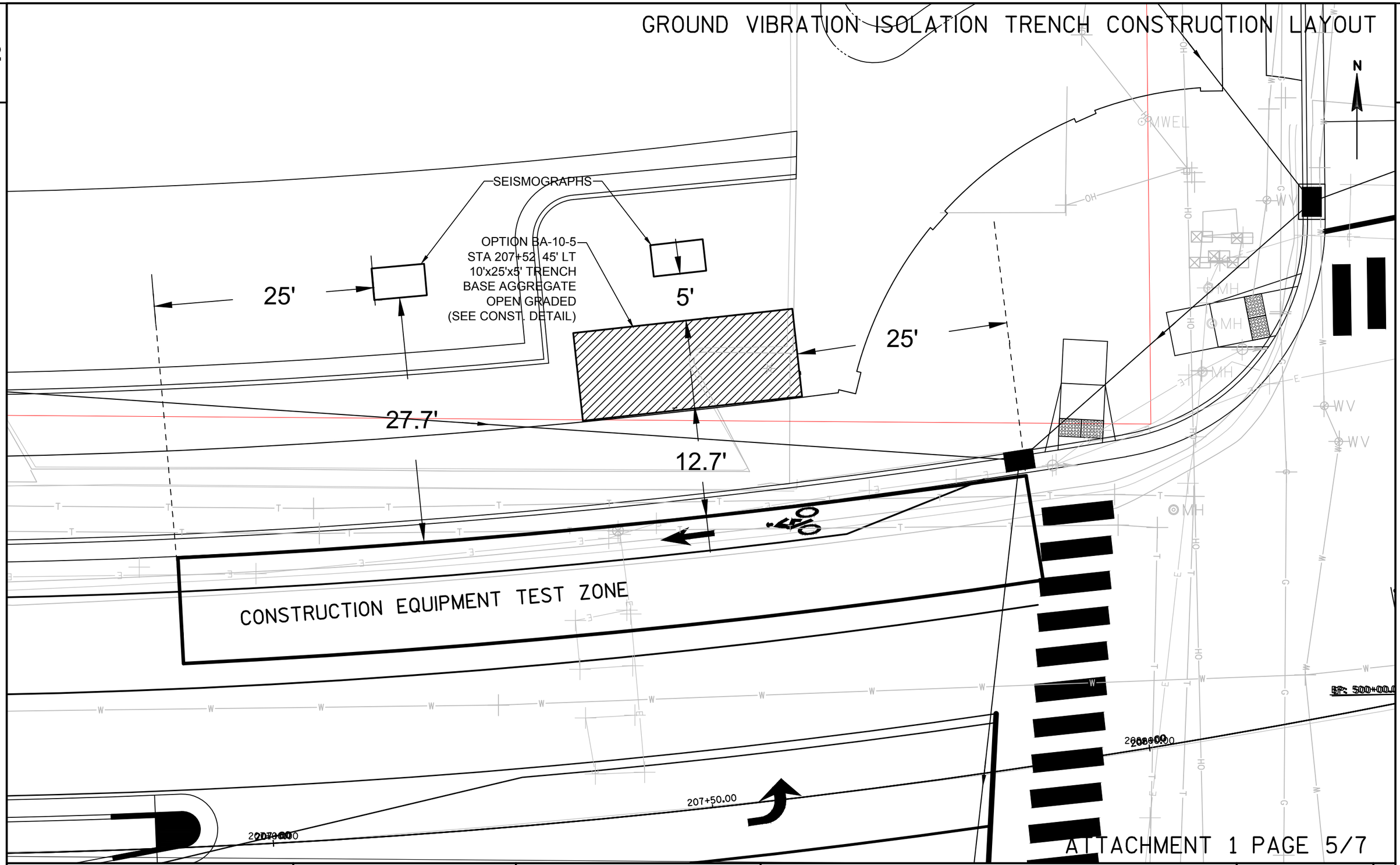
206+50.00

ATTACHMENT 1 PAGE 4/7

PROJECT NO:8680-00-71	HWY:USH 2, BELKNAP STREET	COUNTY:DOUGLAS	VIBRATION ABATEMENT RESEARCH	SHEET	E

FILE NAME : N:\PDS\C3D\86800001\SHEETSPLAN\CONSTRUCTION-DETAILS\TRENCH TEST ZONES.DWG
LAYOUT NAME - TRENCH TEST ZONES - 020101
PLOT DATE : 5/26/2016 11:58 AM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION LAYOUT



ATTACHMENT 1 PAGE 5/7

PROJECT NO:8680-00-71	HWY:USH 2, BELKNAP STREET	COUNTY:DOUGLAS	VIBRATION ABATEMENT RESEARCH	SHEET 47	E

GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION LAYOUT

2

2

N

5'

SEISMOGRAPHS

5'

OPTION PA-5-5
STA 209+33 39' LT
5'x25'x5' TRENCH
PIPE ARRAY
(SEE CONST. DETAIL)

25'

R=32.6

OPTION T-10-5
STA 208+82 65' LT
10'x25'x5' TRENCH
NO BACKFILL
(SEE CONST. DETAIL)

25'

21'

11'

501+00.00

500+50.00

CONSTRUCTION EQUIPMENT TEST ZONE

209+50.00

208+30.39

CONSTRUC

ATTACHMENT 1 PAGE 6/7

PROJECT NO:8680-00-71	HWY:USH 2, BELKNAP STREET	COUNTY:DOUGLAS	VIBRATION ABATEMENT RESEARCH	SHEET 48	E

FILE NAME : N:\PDS\C3D\86800001\SHEETSPLAN\CONSTRUCTION-DETAILS\TRENCH TEST ZONES.DWG
LAYOUT NAME - TRENCH TEST ZONES - 020103

PLOT DATE : 5/26/2016 12:01 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

GROUND VIBRATION ISOLATION TRENCH CONSTRUCTION LAYOUT

EQUIPMENT TEST ZONE

209+50.00

CONSTRUCTION EQUIPMENT TEST ZONE

10'

25'

25'

15'

25'

5'

25'

5'

OPTION SC-10-5
STA 210+03 40' RT
10'x25'x5' TRENCH
SELECT CRUSHED
MATERIAL
(SEE CONST. DETAIL)

OPTION SC-5-5
STA 209+56 45' RT
5'x25'x5' TRENCH
SELECT CRUSHED
MATERIAL
(SEE CONST. DETAIL)

SEISMOGRAPHS

N

ATTACHMENT 1 PAGE 7/7

PROJECT NO:8680-00-71	HWY:USH 2, BELKNAP STREET	COUNTY:DOUGLAS	VIBRATION ABATEMENT RESEARCH	SHEET 49	E

FILE NAME : N:\PDS\C3D\86800001\SHEETSPLAN\CONSTRUCTION-DETAILS\TRENCH TEST ZONES.DWG
LAYOUT NAME - TRENCH TEST ZONES - 020104

PLOT DATE : 5/26/2016 12:02 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

CURVE POINT TABLE		
POINT	STATION	OFFSET
A	STA 137+71.58 US 2 STA 5+57.00 BANKS AVE	57.0'LT 20.0'RT
B	STA 137+78.68 US 2 STA 5+39.32 BANKS AVE	39.5'LT 27.3'RT
C	STA 137+96.58 US 2 STA 5+32.00 BANKS AVE	32.0'LT 45.0' RT

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

SEE INTERSECTION DETAIL
BANKS AVE - NW QUADRANT

640.75
641.03
640.30
640.51
640.91
640.87
643.10
641.23
641.22
641.57
641.86
641.51
641.21
641.34
641.52

US 2 - (BELKNAP ST)

SAWCUT REQ'D

PI: 5+00.00

136+50 137+00 137+50 138+00 138+50 139+00

STA 137+51.58 US 2 =
STA 5+00.00 BANKS AVE

SAWCUT REQ'D

+77.00
640.90
641.01
20.0'
+49.6
641.05
A
CC1
2M2
641.16
B
641.25
C
2M2
17.7'
+03.00
32.0'
32.0'
5.0'
5.5'
CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL
CONCRETE SIDEWALK 6"

+18.10
24.5'
641.20
2M2
640.93
CC2
26.5'
+42.5
640.68
6.0'
5.0'
CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL
CONCRETE SIDEWALK 6"

641.75
641.23
641.22
640.91
640.74

SEE INTERSECTION DETAIL
BANKS AVE - SW QUADRANT

BANKS AVE

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 137+96.58 US 2 STA 5+57.00 BANKS AVE	57.0'LT 45.0'RT	25.0'R	Y= 305487.088 X= 1466867.160
CC2	STA 138+03.11 US 2 STA 4+42.98 BANKS AVE	57.0'RT 51.5'RT	25.0'R	Y= 305373.042 X= 146692.838

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - BANKS AVE - NE & SE QUADRANT	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 1:03 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1" = 20'_XREF_XREF
WISDOT/CADDS SHEET 42

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 136+20.00 US 2 STA 5+78.23 BANKS AVE	78.2'LT 131.6'LT	14.0'R	Y = 305509.634 X = 146510.746
CC2	STA 136+35.88 US 2 STA 5+79.45 BANKS AVE	79.4'LT 115.7'LT	24.0'R	Y = 305510.737 X = 146526.633
CC3	STA 136+55.83 US 2 STA 5+97.07 BANKS AVE	97.1' LT 95.7' LT	70.0'R	Y = 305528.200 X = 146546.718
CC4	STA 136+57.73 US 2 STA 5+96.57 BANKS AVE	96.6'LT 93.8'LT	50.0'R	Y= 305527.692 X= 146548.613
CC5	STA 137+02.81 US 2 STA 5+39.89 BANKS AVE	39.9'LT 48.8'LT	4.0'R	Y= 305470.674 X= 146593.267
CC6	STA 137+28.08 US 2 STA 5+40.57 BANKS AVE	40.6'LT 23.5'LT	5.0'R	Y= 305471.170 X= 146618.540

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

N

BANKS AVE

CONCRETE CURB AND GUTTER 30" TYPE D

SAWCUT REQ'D

640.18

+14.85

SAWCUT REQ'D

640.75

641.03

CONCRETE MEDIAN SLOPED NOSE TYPE 1

CC3

CC4

640.30

8.6'

640.51

640.91

18.5'

14.8'

640.87

640.90

641.01

4B

642.08

CC1

CC2

643.10

1

641.23

6

12.8'

641.05

2M2

6.0'

+24.59

6.0'

641.22

641.57

641.86

641.51

CC5

CC6

641.21

6

641.52

641.34

641.16

641.25

2M2

+54.00

SAWCUT REQ'D

SAWCUT REQ'D

SAWCUT REQ'D

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

US 2 - (BELKNAP ST)

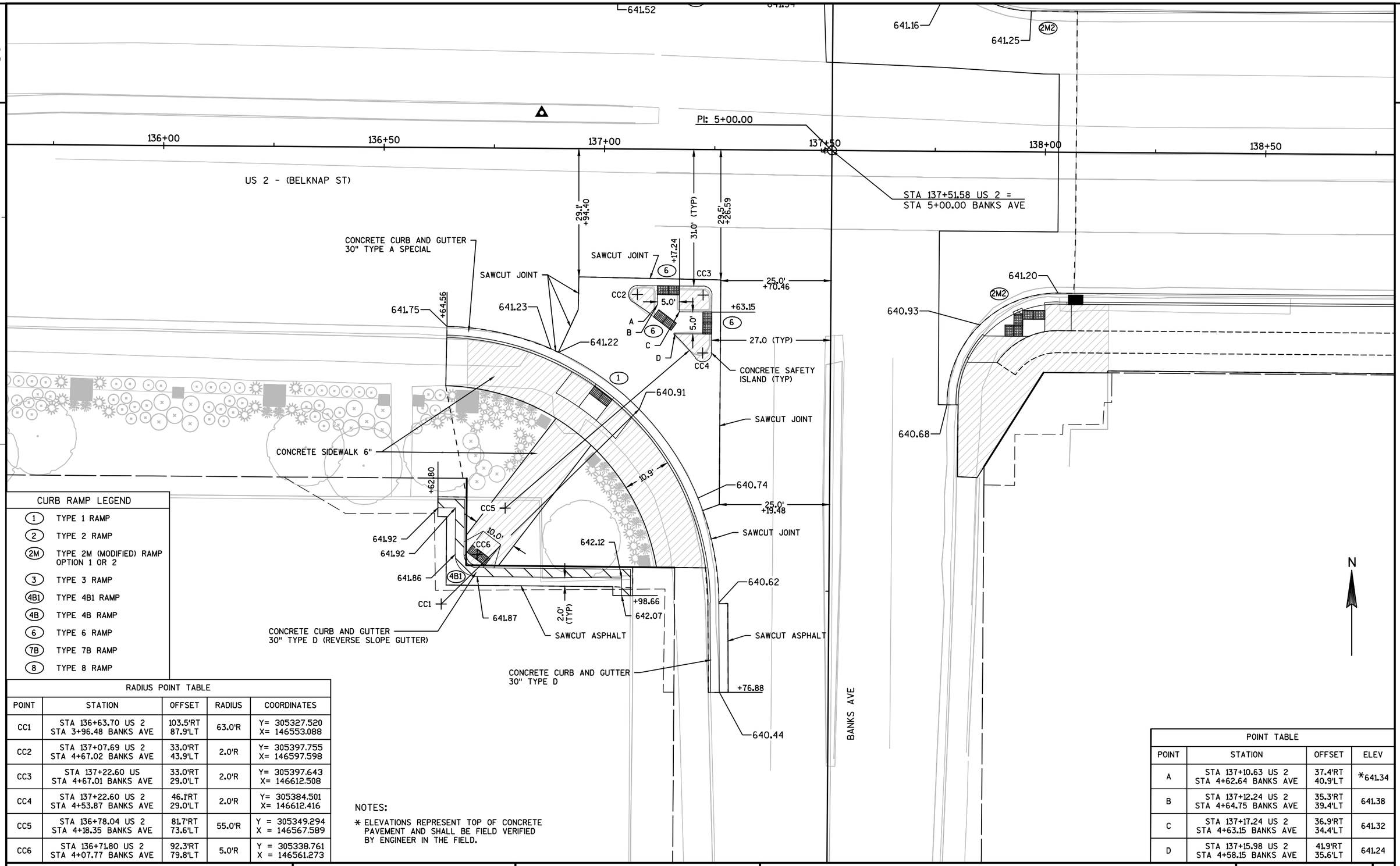
PI: 5+00.00

135+50 136+00 136+50 137+00 137+50 138+00 138+50

STA 137+51.58 US 2 =
STA 5+00.00 BANKS AVE

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - BANKS AVE - NW QUADRANT	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:52 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1" = 20'_XREF_XREF
WISDOT/CADDS SHEET 42



CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 136+63.70 US 2 STA 3+96.48 BANKS AVE	103.5'RT 87.9'LT	63.0'R	Y= 305327.520 X= 146553.088
CC2	STA 137+07.69 US 2 STA 4+67.02 BANKS AVE	33.0'RT 43.9'LT	2.0'R	Y= 305397.755 X= 146597.598
CC3	STA 137+22.60 US STA 4+67.01 BANKS AVE	33.0'RT 29.0'LT	2.0'R	Y= 305397.643 X= 146612.508
CC4	STA 137+22.60 US 2 STA 4+53.87 BANKS AVE	46.1'RT 29.0'LT	2.0'R	Y= 305384.501 X= 146612.416
CC5	STA 136+78.04 US 2 STA 4+18.35 BANKS AVE	81.7'RT 73.6'LT	55.0'R	Y = 305349.294 X = 146567.589
CC6	STA 136+71.80 US 2 STA 4+07.77 BANKS AVE	92.3'RT 79.8'LT	5.0'R	Y = 305338.761 X = 146561.273

NOTES:

* ELEVATIONS REPRESENT TOP OF CONCRETE PAVEMENT AND SHALL BE FIELD VERIFIED BY ENGINEER IN THE FIELD.

POINT TABLE

POINT	STATION	OFFSET	ELEV
A	STA 137+10.63 US 2 STA 4+62.64 BANKS AVE	37.4'RT 40.9'LT	*641.34
B	STA 137+12.24 US 2 STA 4+64.75 BANKS AVE	35.3'RT 39.4'LT	641.38
C	STA 137+17.24 US 2 STA 4+63.15 BANKS AVE	36.9'RT 34.4'LT	641.32
D	STA 137+15.98 US 2 STA 4+58.15 BANKS AVE	41.9'RT 35.6'LT	641.24

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - BANKS AVE SW QUADRANT	SHEET 52 E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:52 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1" = 20'_XREF_XREF

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 140+69.45 US 2 STA 687+35.26 TOWER AVE	69.0'RT 67.5'LT	37.0'R	Y= 305359.052 X= 146959.087
CC2	STA 140+74.42 US 2 STA 688+66.23 TOWER AVE	62.0'LT 62.5'LT	30.0'R	Y= 305490.012 X= 146965.029
CC3	STA 142+02.95 US 2 STA 687+40.20 TOWER AVE	64.0'RT 66.0'RT	37.0'R	Y= 305363.055 X= 147092.618
CC4	STA 142+01.68 US 2 STA 688+71.23 TOWER AVE	67.0'LT 64.8'RT	35.0'R	Y= 305494.060 X= 147092.325
CC5	STA 142+00.21 US 2 STA 688+78.40 TOWER AVE	74.2'LT 63.3'RT	42.0'R	Y= 305501.240 X= 147090.910
CC6	STA 142+36.00 US 2 STA 688+11.88 TOWER AVE	7.7'LT 99.1'RT	33.0'R	Y= 305434.457 X= 147126.197
CC7	STA 140+79.31 US 2 STA 687+36.97 TOWER AVE	67.3'RT 57.6'LT	27.0'R	Y= 305360.690 X= 146968.952

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

N

STH 35 - (TOWER AVE)

US 2 - (BELKNAP ST)

CONCRETE CURB AND GUTTER 18" TYPE G SPECIAL

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

CONCRETE SIDEWALK 6"

BEGIN PROJECT RECONDITION
STA 140+66.08
MATCH EXISTING
SAWCUT REQ'D

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

SAWCUT REQ'D

CONCRETE CURB MEDIAN 3-INCH

SAWCUT REQ'D

CONCRETE CURB MEDIAN 3-INCH

REPLACE MEDIAN AND CONCRETE
STA 684+10.19 TO STA 685+76.25

MATCH EXISTING C & G TO PAVEMENT

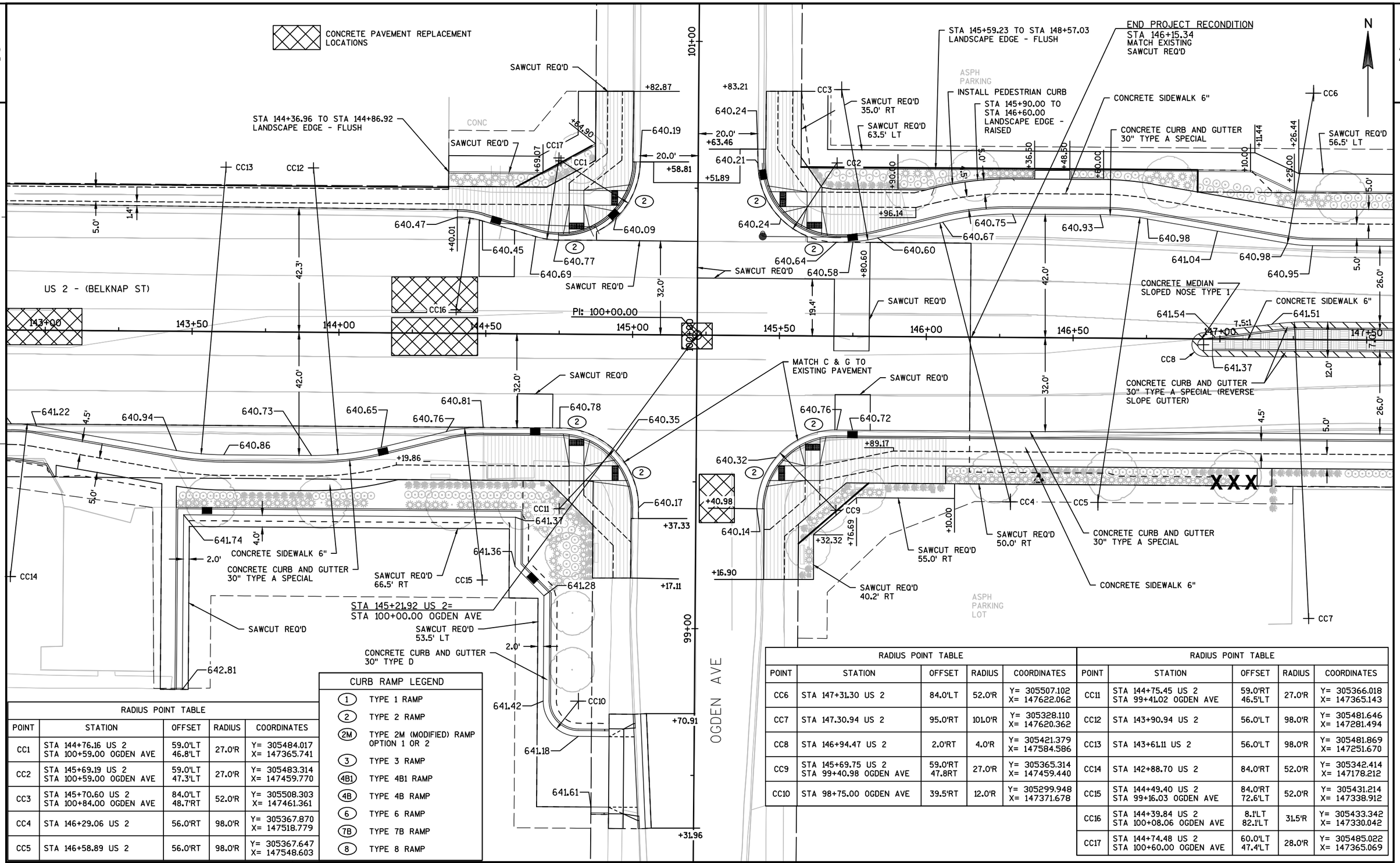
STA 141+36.92 US 2 =
STA 688+04.23 STH 35

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

CONCRETE PAVEMENT REPLACEMENT LOCATIONS

CURVE POINT TABLE		
POINT	STATION	OFFSET
A	STA 141+05.90 US 2 STA 687+41.60 TOWER AV	62.6'RT 31.0'LT
B	STA 141+01.39 US 2 STA 687+53.47 TOWER AV	50.3'RT 35.3'LT
C	STA 140+93.36 US 2 STA 687+63.57 TOWER AV	40.8'LT 43.7' LT
D	STA 140+82.52 US 2 STA 687+69.87 TOWER AV	34.4'RT 54.4'LT
E	STA 140+69.45 US 2 STA 687+72.26 TOWER AV	32.0'RT 68.0'LT

PROJECT NO:8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - TOWER AVE	SHEET 53 E



CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 144+76.16 US 2 STA 100+59.00 OGDEN AVE	59.0'LT 46.8'LT	27.0'R	Y= 305484.017 X= 147365.741
CC2	STA 145+69.19 US 2 STA 100+59.00 OGDEN AVE	59.0'LT 47.3'LT	27.0'R	Y= 305483.314 X= 147459.770
CC3	STA 145+70.60 US 2 STA 100+84.00 OGDEN AVE	84.0'LT 48.7'RT	52.0'R	Y= 305508.303 X= 147461.361
CC4	STA 146+29.06 US 2	56.0'RT	98.0'R	Y= 305367.870 X= 147518.779
CC5	STA 146+58.89 US 2	56.0'RT	98.0'R	Y= 305367.647 X= 147548.603

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC6	STA 147+31.30 US 2	84.0'LT	52.0'R	Y= 305507.102 X= 147622.062
CC7	STA 147.30.94 US 2	95.0'RT	101.0'R	Y= 305328.110 X= 147620.362
CC8	STA 146+94.47 US 2	2.0'RT	4.0'R	Y= 305421.379 X= 147584.586
CC9	STA 145+69.75 US 2 STA 99+40.98 OGDEN AVE	59.0'RT 47.8RT	27.0'R	Y= 305365.314 X= 147459.440
CC10	STA 98+75.00 OGDEN AVE	39.5'RT	12.0'R	Y= 305299.948 X= 147371.678

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC11	STA 144+75.45 US 2 STA 99+41.02 OGDEN AVE	59.0'RT 46.5'LT	27.0'R	Y= 305366.018 X= 147365.143
CC12	STA 143+90.94 US 2	56.0'LT	98.0'R	Y= 305481.646 X= 147281.494
CC13	STA 143+61.11 US 2	56.0'LT	98.0'R	Y= 305481.869 X= 147251.670
CC14	STA 142+88.70 US 2	84.0'RT	52.0'R	Y= 305342.414 X= 147178.212
CC15	STA 144+49.40 US 2 STA 99+16.03 OGDEN AVE	84.0'RT 72.6'LT	52.0'R	Y= 305431.214 X= 147338.912
CC16	STA 144+39.84 US 2 STA 100+08.06 OGDEN AVE	8.1'LT 82.1'LT	31.5'R	Y= 305433.342 X= 147330.042
CC17	STA 144+74.48 US 2 STA 100+60.00 OGDEN AVE	60.0'LT 47.4'LT	28.0'R	Y= 305485.022 X= 147365.069

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - OGDEN AVE	SHEET 54 E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 148+92.06 US 2 STA 299+20.37 JOHN AVE	79.6'RT 0.0'	13.0'R	Y= 305342.272 X= 147781.596
CC2	STA 148+65.06 US 2 STA 299+33.54 JOHN AVE	66.5'RT 27.0'LT	17.0'R	Y= 305355.633 X= 147754.689
CC3	STA 148+50.06 US 2 STA 299+36.02 JOHN AVE	64.0'RT 42.0'LT	32.0'R	Y= 305358.219 X= 147739.707
CC4	STA 148+17.26 US 2	50.5'RT	7.0'R	Y= 305371.964 X= 147707.009
CC5	STA 148+53.56 US 2 STA 299+23.00 JOHN AVE	77.0'RT 38.5'LT	4.0'R	Y= 305345.175 X= 147743.115
CC6	STA 298+35.00 JOHN AVE	31.0'LT	7.0'R	Y= 305257.124 X= 147749.996
CC7	STA 148+10.09 US 2	58.9'RT	17.0'R	Y= 305363.598 X= 147699.776
CC8	STA 148+50.91 US 2 STA 299+98.02 JOHN AVE	2.0'RT 41.1'LT	4.0'R	Y= 305420.211 X= 147741.026

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC17	STA 149+24.03 US 2 STA 300+54.00 JOHN AVE	54.0'LT 32.0'RT	22.0'R	Y= 305475.663 X= 147814.559
CC18	STA 149+46.14 US 2 STA 300+84.00 JOHN AVE	84.0'LT 54.1'RT	52.0'R	Y= 305505.497 X= 147836.897
CC19	STA 149+88.70 US 2	60.0'RT	98.0'R	Y= 305361.829 X= 147878.375
CC20	STA 149+83.99 US 2	62.0'RT	12.0'R	Y= 305359.218 X= 147873.649
CC21	STA 149+44.73 US 2 STA 299+31.98 JOHN AVE	68.0'RT 52.7'RT	7.0'R	Y= 305353.512 X= 147834.345
CC22	STA 149+89.54 US 2	60.0'LT	98.0'R	Y= 305481.173 X= 147880.114
CC23	STA 149+47.09 US 2 STA 299+15.98 JOHN AVE	84.0'RT 55.0'RT	52.0'R	Y= 305337.495 X= 147836.586
CC24	STA 149+24.05 US 2 STA 299+45.99 JOHN AVE	54.0'RT 32.0'RT	22.0'R	Y= 305367.666 X= 147813.775
CC25	STA 148+88.06 US 2 STA 299+30.85 JOHN AVE	69.2'RT 4.0'LT	17.0'R	Y= 305352.780 X= 147777.669

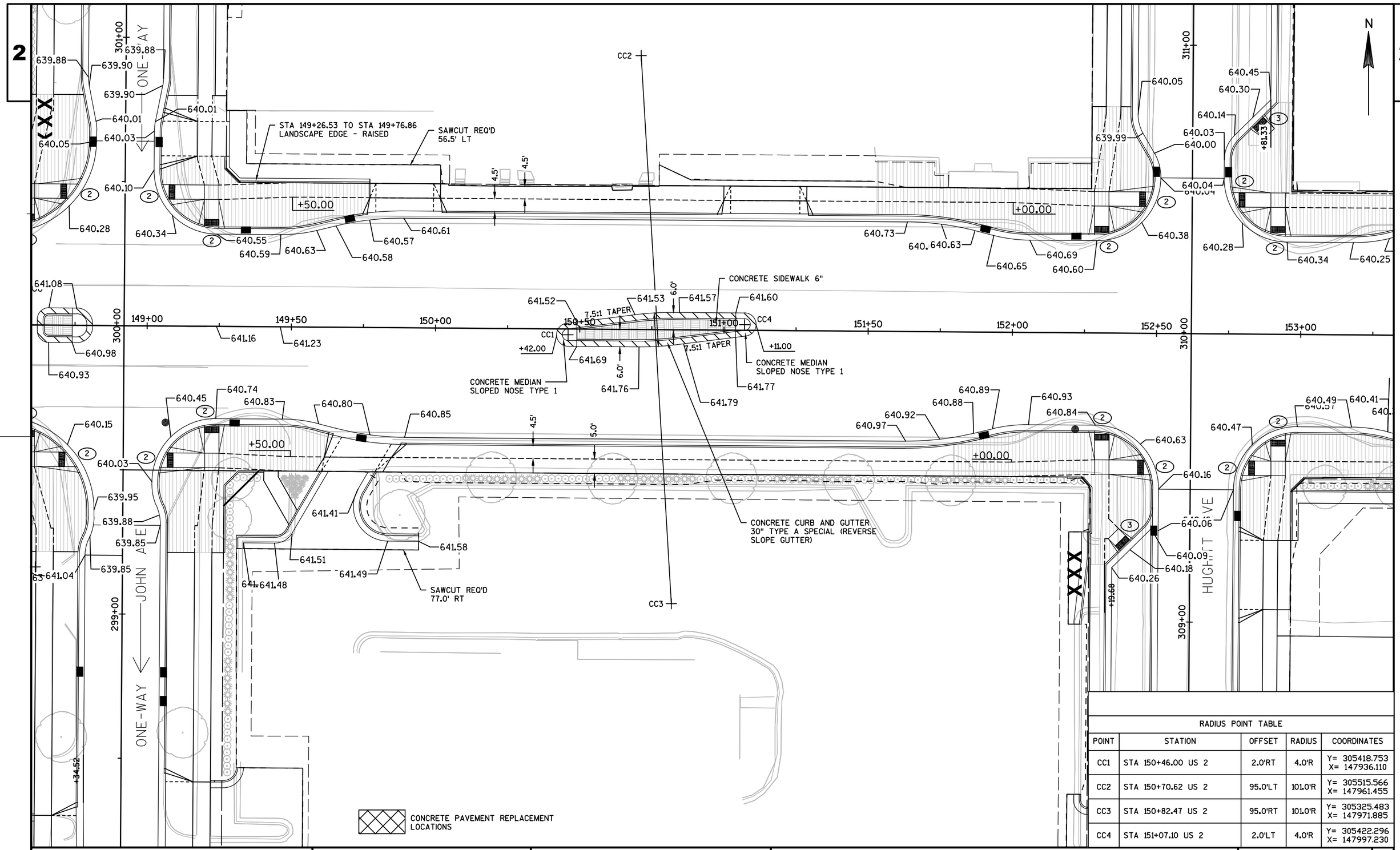
RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC9	STA 148+50.91 US 2 STA 300+02.00 JOHN AVE	2.0' LT 41.1' LT	4.0'R	Y= 305424.211 X= 147740.056
CC10	STA 148+65.91 US 2 STA 299+98.01 JOHN AVE	2.0'RT 26.1'LT	4.0'R	Y= 305420.099 X= 147756.027
CC11	STA 148+75.55 US 2 STA 299+99.51 JOHN AVE	0.5'RT 16.5'LT	5.5'R	Y= 305421.527 X= 147765.669
CC12	STA 149+75.55 US 2 STA 300+00.50 JOHN AVE	0.5'LT 16.5'LT	5.5'R	Y= 305422.527 X= 147765.677
CC13	STA 148+65.91 US 2 STA 300+02.00 JOHN AVE	2.0'LT 26.1'LT	4.0'R	Y= 305424.099 X= 147756.056
CC14	STA 148+50.03 US 2 STA 300+64.00 JOHN AVE	64.0'LT 42.0'LT	32.0'R	Y= 305486.216 X= 147740.636
CC15	STA 148+94.03 US 2 STA 300+86.08 JOHN AVE	86.1'LT 2.0'RT	15.0'R	Y= 305507.968 X= 147784.799
CC16	STA 148+92.03 US 2 STA 300+85.98 JOHN AVE	85.9'LT 0.0'RT	13.0'R	Y= 305507.791 X= 147782.798

CURVE POINT TABLE		
POINT	STATION	OFFSET
A	STA 149+46.14 US 2	32.0'LT
B	STA 149+52.41 US 2	32.4'LT
C	STA 149+58.59 US 2	33.5'LT

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC26	STA 298+47.00 JOHN AVE	35.4'RT	7.0'R	Y= 305268.657 X= 147816.479
CC27	STA 149+19.05 US STA 299+44.81 JOHN AVE	55.2'RT 27.0' RT	17.0'R	Y= 305366.526 X= 147808.767
CC28	STA 149+19.03 US 2 STA 300+67.57 JOHN AVE	67.6'LT 27.0' RT	17.0'R	Y= 305489.267 X= 147809.660
CC29	STA 148+65.03 US 2 STA 300+67.57 JOHN AVE	67.6' LT 27.0' LT	17.0'R	Y= 305489.671 X= 147755.662

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - JOHN AVE	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:53 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:30 FT_XREF



RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 150+46.00 US 2	2.0'RT	4.0'R	Y= 305418.753 X= 147936.110
CC2	STA 150+70.62 US 2	95.0'LT	101.0'R	Y= 305515.566 X= 147961.455
CC3	STA 150+82.47 US 2	95.0'RT	101.0'R	Y= 305325.483 X= 147971.885
CC4	STA 151+07.10 US 2	2.0'LT	4.0'R	Y= 305422.296 X= 147997.230

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - JOHN AVE	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:53 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:30 FT_XREF

WISDOT/CADDS SHEET 42

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 308+39.15 HUGHITT AVE	17.0'LT	6.0'R	Y= 305258.409 X= 148134.034
CC2	STA 152+39.08 US 2 STA 309+39.66 HUGHITT AVE	60.4'RT 23.0'LT	12.0'R	Y= 305358.958 X= 148128.742
CC3	STA 152+29.07 US 2 STA 309+46.01 HUGHITT AVE	54.0'RT 33.0'LT	22.0'R	Y= 305365.386 X= 148118.787
CC4	STA 152+05.85 US 2 STA 309+16.02 HUGHITT AVE	84.0'RT 56.2'LT	52.0'R	Y= 305335.561 X= 148095.335
CC5	STA 151+63.31 US 2	60.0'LT	98.0'R	Y= 305479.875 X= 148053.874
CC6	STA 151+63.31 US 2	60.0'RT	98.0'R	Y= 305359.878 X= 148052.978
CC7	STA 152+29.05 US 2 STA 310+54.00 HUGHITT AVE	54.0'LT 33.0'LT	22.0'R	Y= 305473.384 X= 148119.570
CC8	STA 152+34.05 US 2 STA 310+53.98 HUGHITT AVE	54.0'LT 28.0'LT	17.0'R	Y= 305473.330 X= 148124.570

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC9	STA 152+56.05 US 2 STA 310+75.88 HUGHITT AVE	75.9'LT 6.0'LT	13.0'R	Y= 305495.060 X= 148146.733
CC10	STA 311+59.11 HUGHITT AVE	6.0'LT	13.0'R	Y= 305578.292 X= 148147.355
CC11	STA 311+77.11 HUGHITT AVE	30.0'LT	17.0'R	Y= 305596.470 X= 148123.490
CC12	STA 311+73.60 HUGHITT AVE	17.0'RT	6.0'R	Y= 305592.605 X= 148170.462
CC13	STA 152+85.05 US 2 STA 310+60.36 HUGHITT AVE	60.4'LT 23.0'RT	12.0'R	Y= 305479.326 X= 148175.616
CC14	STA 152+95.05 US 2 STA 310+54.00 HUGHITT AVE	54.0'LT 33.0'RT	22.0'R	Y= 305472.890 X= 148185.568
CC15	STA 153+18.01 US 2 STA 310+84.00 HUGHITT AVE	84.0'LT 56.0'RT	52.0'R	Y= 305502.718 X= 148208.754
CC16	STA 153+60.54 US 2	60.0'RT	98.0'R	Y= 305358.404 X= 148250.202
CC17	STA 153+60.34 US 2	60.0'LT	98.0'R	Y= 305478.402 X= 148250.905
CC18	STA 152+99.07 US 2 STA 309+45.98 HUGHITT AVE	54.0'RT 37.0'RT	22.0'R	Y= 305364.863 X= 148188.785

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC19	STA 153+17.86 US 2 STA 309+15.98 HUGHITT AVE	84.0'RT 55.8'RT	52.0'R	Y= 305334.724 X= 148207.347
CC20	STA 152+05.85 US 2 STA 310+84.00 HUGHITT AVE	84.0'LT 56.2'LT	52.0'R	Y= 305503.556 X= 148096.590
CC21	STA 312+10.99 HUGHITT AVE	17.0'RT	4.0'R	Y= 305629.996 X= 148170.742
CC22	STA 308+38.00 HUGHITT AVE	34.7' LT	5.0'R	Y= 305257.390 X= 148116.327

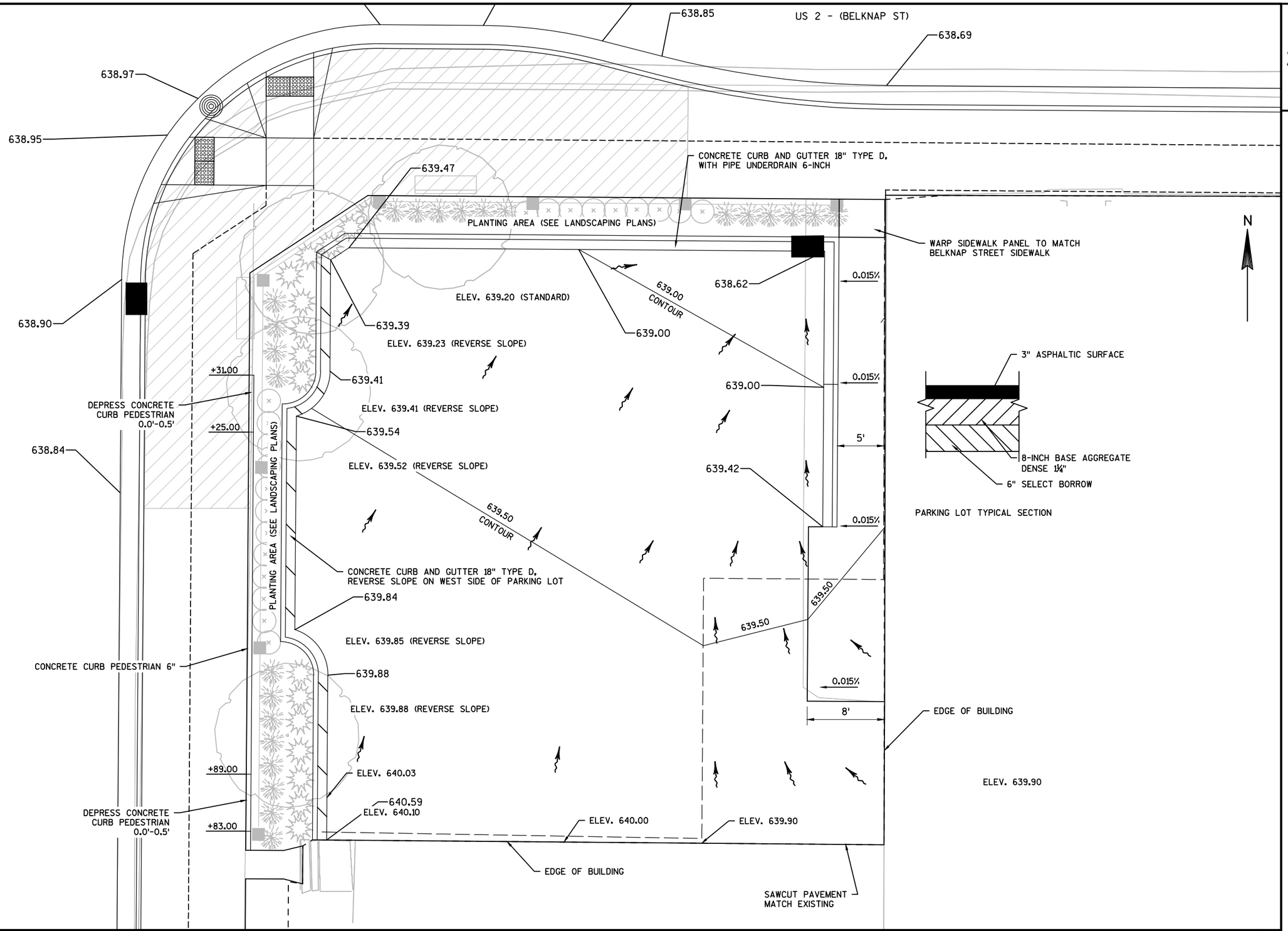
RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC21	STA 154+89.33 US 2	57.8LT	7.0'R	Y= 305475.219 X= 148379.871
CC22	STA 155+23.30 US 2	50.4'LT	5.0'R	Y= 305467.620 X= 148413.787
CC23	STA 156+00.13 US 2 STA 330+49.01 HAMMOND AVE	49.0'LT 47.0'LT	5.5'R	Y= 305465.611 X= 148490.605

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 155+05.84 US 2	60.0'RT	98.0'R	Y= 305357.318 X= 148395.505
CC2	STA 155+48.82 US 2	84.5'LT	52.5'R	Y= 305501.493 X= 148439.562
CC3	STA 155+97.63 US 2 STA 330+54.01 HAMMOND AVE	54.0'LT 49.5'LT	22.0'R	Y= 305470.629 X= 148488.142
CC4	STA 156+02.63 US 2 STA 330+57.17 HAMMOND AVE	57.2'LT 44.5'LT	17.0'R	Y= 305473.759 X= 148493.165
CC5	STA 156+26.13 US 2 STA 330+77.76 HAMMOND AVE	77.8'LT 21.0'LT	13.0'R	Y= 305494.174 X= 148516.818
CC6	STA 156+63.13 US 2 STA 330+80.19 HAMMOND AVE	80.2'LT 16.0'RT	13.0'R	Y= 305496.328 X= 148553.834
CC7	STA 156+87.13 US 2 STA 330+60.67 HAMMOND AVE	60.7'LT 40.0'RT	17.0'R	Y= 305476.632 X= 148577.689
CC8	STA 56+97.13 US 2 STA 330+59.00 HAMMOND AVE	59.0'LT 50.0'RT	27.0'R	Y= 305474.885 X= 148587.676

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC9	STA 157+13.56 US 2 STA 330+84.00 HAMMOND AVE	84.0'LT 66.4'RT	52.0'R	Y= 305499.764 X= 148604.286
CC10	STA 157+56.04 US 2	60.0'RT	98.0'R	Y= 305355.449 X= 148645.696
CC11	STA 157+56.04 US 2	60.0'LT	98.0'R	Y= 305475.446 X= 148646.593
CC12	STA 157+13.55 US 2 STA 329+15.97 HAMMOND AVE	84.0'RT 66.4'RT	52.0'R	Y= 305331.767 X= 148603.024
CC13	STA 157+02.61 US 2 STA 329+40.98 HAMMOND AVE	58.9'RT 55.5'RT	27.0'R	Y= 305356.920 X= 148592.277
CC14	STA 156+26.18 US 2	85.3'RT	13.0'R	Y= 305331.154 X= 148515.645
CC15	STA 156+03.66 US 2 STA 329+40.64 HAMMOND AVE	59.4'RT 43.5'LT	17.0'R	Y= 305357.206 X= 148493.327
CC16	STA 155+98.66 US 2 STA 329+46.03 HAMMOND AVE	54.0'RT 48.5'LT	22.0'R	Y= 305362.625 X= 148488.364
CC17	STA 155+77.14 US 2 STA 329+16.04 HAMMOND AVE	84.0'RT 70.0'LT	52.0'R	Y= 305332.786 X= 148466.618
CC18	STA 155+34.66 US 2	60.0'LT	98.0'R	Y= 305477.100 X= 148425.213
CC19	STA 329+31.48 HAMMOND AVE	45.5'RT	5.0'R	Y= 305347.423 X= 148582.260
CC20	STA 328+99.48 HAMMOND AVE	45.5'RT	5.0'R	Y= 305315.416 X= 148582.037

PROJECT NO: 8680-00-71 | HWY: US 2 - BELKNAP ST | COUNTY: DOUGLAS | INTERSECTION DETAIL - HAMMOND AVE | SHEET 58 E



PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - HAMMOND AVE PARKING DETAIL	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:54 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1" = 10'_XREF_XREF
WISDOT/CADDS SHEET 42

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 159+34.08 US 2	60.0'RT	98.0'R	Y= 305354.118 X= 148823.731
CC2	STA 159+76.55 US 2 STA 340+84.00 CUMMING AVE	84.0'LT 55.7'LT	52.0'R	Y= 305497.797 X= 148867.274
CC3	STA 159+98.78 US STA 340+59.00 CUMMING AVE	59.0'LT 33.5'LT	27.0'R	Y= 305472.632 X= 148889.311
CC4	STA 160+21.78 US STA 340+61.50 CUMMING AVE	61.5'LT 10.5'LT	4.0'R	Y= 305474.960 X= 148912.329
CC5	STA 341+93.00 CUMMING AVE	13.5'LT	7.0'R	Y= 305606.482 X= 148910.312
CC6	STA 342+02.40 CUMMING AVE	38.5'LT	32.0'R	Y= 305616.069 X= 148885.383
CC7	STA 342+31.51 CUMMING AVE	28.5'LT	7.0'R	Y= 305645.103 X= 148895.569
CC8	STA 341+69.76 CUMMING AVE	35.5'RT	17.0'R	Y= 305582.877 X= 148959.137
CC9	STA 341+48.32 CUMMING AVE	6.5'RT	18.0'R	Y= 305561.647 X= 148929.977
CC10	STA 160+38.78 US 2 STA 340+77.80 CUMMING AVE	77.8'LT 6.5'RT	18.0'R	Y= 305491.134 X= 148929.450

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC11	STA 160+67.84 US 2 STA 340+57.84 CUMMING AVE	57.8'LT 35.5'RT	17.0'R	Y= 305470.955 X= 148958.367
CC12	STA 160+71.57 US 2 STA 340+53.06 CUMMING AVE	53.1'LT 39.3'RT	27.0'R	Y= 305466.148 X= 148962.061
CC13	STA 160+88.27 US 2 STA 340+84.00 CUMMING AVE	84.0'LT 56.0'RT	52.0'R	Y= 305496.962 X= 148978.992
CC14	STA 161+30.77 US 2	60.0'RT	98.0'R	Y= 305352.649 X= 149020.412
CC15	STA 161+31.26 US 2	64.0'LT	102.0'R	Y= 305476.642 X= 149021.829
CC16	STA 160+88.27 US 2 STA 339+15.97 CUMMING AVE	84.0'RT 56.0'RT	52.0'R	Y= 305328.967 X= 148977.736
CC17	STA 160+72.80 US STA 339+45.98 CUMMING AVE	54.0'RT 40.5'RT	22.0'R	Y= 305359.082 X= 148962.491
CC18	STA 160+67.80 US 2 STA 339+44.39 CUMMING AVE	55.6'RT 35.5'RT	17.0'R	Y= 305357.529 X= 148957.480
CC19	STA 160+38.81 US 2 STA 339+22.94 CUMMING AVE	77.1'RT 6.5'RT	18.0'R	Y= 305336.285 X= 148928.331
CC20	STA 338+55.40 CUMMING AVE	6.5'RT	18.0'R	Y= 305268.737 X= 148927.859

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC21	STA 338+35.28 CUMMING AVE	35.5'RT	17.0'R	Y= 305248.424 X= 148956.705
CC22	STA 338+28.00 CUMMING AVE	19.0'LT	6.0'R	Y= 305241.521 X= 148902.169
CC23	STA 160+19.81 US 2 STA 339+37.86 CUMMING AVE	62.1'RT 12.5'LT	7.0'R	Y= 305351.334 X= 148909.436
CC24	STA 160+04.80 US 2 STA 339+46.01 CUMMING AVE	54.0'RT 27.5'LT	22.0'R	Y= 305359.590 X= 148894.493
CC25	STA 159+76.55 US 2 STA 339+16.03 CUMMING AVE	84.0'RT 55.8'LT	52.0'R	Y= 305329.802 X= 148866.019
CC26	STA 159+34.08 US 2	60.0'LT	98.0'R	Y= 305474.115 X= 148824.628

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - CUMMING AVE	SHEET 60 E

2

N

CUMMING AVE

637.40 CONTOUR

637.20 CONTOUR

SAWCUT REQ'D

637.50

637.50

637.10

END FLUSH CURB

637.20 CONTOUR

A

A

99.9'

HIGH POINT 637.30
STA 160+89.60
64.20' LT

637.30 TC (FLUSH)

5' TAPER CURB
6"-0" (FLUSH)

637.2

637.92 TC

637.42 TS

637.40 TC (FLUSH)

637.45 TC (FLUSH)

637.65 TC (FLUSH)

+92.3

53.5' LT

637.3

637.3 TC (FLUSH)

END FLUSH CURB

638.15 TC
637.65 TS
+75

637.4

5.0'

637.2

637.95 TC
637.45 TS
+87

637.25 TC
637.25 TS
+00

5' TAPER CURB
6"-0" (FLUSH)

9.5'

6" UNDERDRAIN

637.40 CONTOUR

637.20 CONTOUR

637.30

637.20 CONTOUR

637.20 CONTOUR

31.7'

637.10

SAWCUT REQ'D

637.00

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 30"
TYPE A SPECIAL

636.93

636.81

5.0'

3.5'

US 2 - (BELKNAP ST)

0

340+00

160+50

161+00

4" ASPHALT

8" BASE AGGREGATE
DENSE 1 /14-INCH

SAS FABRIC

6" UNDERDRAIN

DF FABRIC

A-A

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - CUMMING AVE PARKING DETAIL	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:54 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1" = 10'_XREF_XREF

WISDOT/CADDS SHEET 42

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 162+83.59 US 2	60.0' LT	102.0'R	Y= 305471.503 X= 149174.128
CC2	STA 163+26.00 US 2	84.0'LT	52.0'R	Y= 305495.212 X= 149216.714
CC3	STA 163+61.41 US 2 STA 350+83.00 BAXTER AVE	83.0'LT 37.0'LT	6.0'R	Y= 305493.887 X= 149256.116
CC4	STA 163+66.41 US 2 STA 350+82.00 BAXTER AVE	82.0'LT 36.0'LT	7.0'R	Y= 305492.884 X= 149257.108
CC5	STA 163+69.37 US 2 STA 350+89.00 BAXTER AVE	89.0'LT 33.0'LT	28.0'R	Y= 305499.862 X= 149260.118
CC6	STA 163+76.41 US 2 STA 350+92.00 BAXTER AVE	92.0'LT 26.0'LT	17.0'R	Y= 305502.809 X= 149267.182
CC7	STA 163+86.41 US 2 STA 350+93.99 BAXTER AVE	94.0'LT 16.0'LT	7.0'R	Y= 305504.719 X= 149277.197
CC8	STA 163+71.41 US 2 STA 350+54.00 BAXTER AVE	54.0'LT 31.0'LT	22.0'R	Y= 305464.847 X= 149261.900
CC9	STA 163+89.41 US 2 STA 350+63.66 BAXTER AVE	63.7'LT 13.0'LT	4.0'R	Y= 305474.376 X= 149279.972
CC10	STA 351+61.88 BAXTER AVE	14.1'RT	5.0'R	Y= 305572.594 X= 149279.621

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC11	STA 164+06.41 US 2 STA 350+76.06 BAXTER AVE	76.1'LT 4.0'RT	13.0'R	Y= 305486.643 X= 149297.063
CC12	STA 164+28.41 US 2 STA 350+55.30 BAXTER AVE	55.3'LT 26.0'RT	17.0'R	Y= 305465.722 X= 149318.909
CC13	STA 164+33.41 US 2 STA 350+54.00 BAXTER AVE	54.0'LT 31.0'RT	22.0'R	Y= 305464.385 X= 149323.899
CC14	STA 164+56.57 US 2 STA 350+84.00 BAXTER AVE	84.0'LT 54.2'RT	52.0'R	Y= 305494.209 X= 149347.280
CC15	STA 164+99.08 US 2	60.0'LT	98.0'R	Y= 305469.893 X= 149389.610
CC16	STA 165+07.44 US 2	2.0'LT	4.0'R	Y= 305411.832 X= 149397.531
CC17	STA 164+40.41 US 2 STA 350+02.00 BAXTER AVE	2.0'LT 38.0'RT	4.0'R	Y= 305412.333 X= 149330.513
CC18	STA 164+40.42 US 2 STA 349+98.00 BAXTER AVE	2.0'RT 38.0'RT	4.0'R	Y= 305408.333 X= 149330.483
CC19	STA 164+25.41 US 2 STA 350+02.00 BAXTER AVE	2.0'LT 23.0'RT	4.0'R	Y= 305412.445 X= 149315.513
CC20	STA 164+20.17 US 2 STA 350+00.50 BAXTER AVE	0.5'LT 17.8'RT	5.5'R	Y= 305410.984 X= 149310.261
CC21	STA 164+20.17 US 2 STA 349+99.50 BAXTER AVE	0.5'RT 17.8'RT	5.5'R	Y= 305409.984 X= 149310.253
CC22	STA 164+25.80 US 2 STA 349+98.00 BAXTER AVE	2.0'RT 23.0'RT	4.0'R	Y= 305408.445 X= 149315.483

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC23	STA 164+99.08 US 2	60.0'RT	98.0'R	Y= 305349.896 X= 149388.713
CC24	STA 164+36.42 US 2 STA 349+46.00 BAXTER AVE	54.0'RT 34.0'RT	22.0'R	Y= 305356.365 X= 149326.094
CC25	STA 164+31.42 US 2 STA 349+43.91 BAXTER AVE	56.1'RT 29.0'RT	17.0'R	Y= 305354.315 X= 149321.079
CC26	STA 164+56.58 US 2 STA 349+16.00 BAXTER AVE	84.0'RT 54.2'RT	52.0'R	Y= 305326.219 X= 149346.031
CC27	STA 164+07.42 US 2 STA 349+23.23 BAXTER AVE	76.8'RT 5.0'RT	13.0'R	Y= 305333.813 X= 149296.925
CC28	STA 163+97.42 US 2 STA 349+23.23 BAXTER AVE	76.8'RT 5.0'LT	13.0'R	Y= 305333.888 X= 149286.925
CC29	STA 163+73.42 US 2 STA 349+43.91 BAXTER AVE	56.1'RT 29.0'LT	17.0'R	Y= 305354.749 X= 149263.081
CC30	STA 163+68.42 US 2 STA 349+46.00 BAXTER AVE	54.0'RT 34.0'LT	22.0'R	Y= 305356.873 X= 149258.096

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC31	STA 163+26.10 US 2	84.0'RT	52.0'R	Y= 305327.190 X= 149215.562
CC32	STA 162+83.59 US 2	60.0'RT	98.0'R	Y= 305351.507 X= 149173.231
CC33	STA 164+71.00 US 2 STA 350+95.00 BAXTER AVE	95.0'LT 68.6'RT	101.0'R	Y= 305505.102 X= 149361.792

CURB RAMP LEGEND	
(1)	TYPE 1 RAMP
(2)	TYPE 2 RAMP
(2M)	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
(3)	TYPE 3 RAMP
(4B1)	TYPE 4B1 RAMP
(4B)	TYPE 4B RAMP
(6)	TYPE 6 RAMP
(7B)	TYPE 7B RAMP
(8)	TYPE 8 RAMP

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - BAXTER AVE	SHEET 62	E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 9+74.00 ALLEY STA 351+60.50 BAXTER AVE	24.5'RT 26.0'LT	17.0'R	Y= 305571.303 X= 149267.690
CC2	STA 9+62.00 ALLEY STA 351+71.00 BAXTER AVE	14.0'RT 38.0'LT	5.0'R	Y= 305581.892 X= 149255.769
CC3	STA 9+62.00 ALLEY STA 351+72.50 BAXTER AVE	12.5'RT 38.0'LT	5.0'R	Y= 305583.392 X= 149255.780
CC4	STA 9+81.00 ALLEY STA 352+02.50 BAXTER AVE	17.5'LT 19.0'LT	10.0'R	Y= 305613.250 X= 149275.002
CC5	STA 9+84.00 ALLEY STA 352+07.05 BAXTER AVE	22.1'LT 16.0'LT	7.0'R	Y= 305617.782 X= 149278.036
CC6	STA 9+88.00 ALLEY STA 352+29.95 BAXTER AVE	41.0'LT 12.0'LT	8.0'R	Y= 305636.647 X= 149282.176
CC7	STA 351+71.18 BAXTER AVE	9.0'RT	8.0'R	Y= 305581.725 X= 149302.769
CC8	STA 351+85.39 BAXTER AVE	16.0'RT	7.0'R	Y= 305595.886 X= 149309.874
CC9	STA 352+05.34 BAXTER AVE	16.0'RT	7.0'R	Y= 305615.833 X= 149310.022
CC10	STA 352+22.55 BAXTER AVE	12.0'RT	8.0'R	Y= 305633.076 X= 149306.150
CC11	STA 9+16.00 ALLEY	12.5'RT	5.0'R	Y= 305583.733 X= 149209.781

BEGIN CONSTRUCTION
STA 8+90.00
MATCH EXISTING
SAWCUT REQ'D

END CONSTRUCTION
STA 352+29.00
MATCH EXISTING
SAWCUT REQ'D

US 2 - (BELKNAP ST)

BAXTER AVE

CONCRETE CURB AND GUTTER 30" TYPE D (REVERSE SLOPE GUTTER) (TYP)

CONCRETE CURB AND GUTTER 30" TYPE D

REMOVAL AND BACKFILL OF WOOD PILES (8 TOTAL)

2X3 FT INLET TYPE H-S COVER

STA 162+92.47 US2CL -177.5 LT=
STA 351+77.50 Baxter CL BF -109.9 LT
ELEVATION 635.22 (REVERSE SLOPE GUTTER)

STA 162+92.35 US2CL -192.6 LT=
STA 351+92.57 Baxter CL BF -110.1 LT
ELEVATION 635.00

STA 163+18.41 US2CL -177.5 LT=
STA 351+77.50 Baxter CL BF -84.0 LT

STA 163+23.41 US2CL -61.0 LT=
STA 350+61.00 Baxter CL BF -79.0 LT
ELEVATION 635.25

STA 163+23.41 US2CL -172.5 LT=
STA 351+72.50 Baxter CL BF -79.0 LT

STA 163+17.42 US2CL -192.5 LT=
STA 351+92.50 Baxter CL BF -85.0 LT
ELEVATION 635.75

STA 163+64.41 US2CL -177.5 LT=
STA 351+77.50 Baxter CL BF -38.0 LT
ELEVATION 635.22

STA 163+64.41 US2CL -166.0 LT=
STA 351+66.00 Baxter CL BF -38.0 LT

STA 163+65.41 US2CL -89.0 LT=
STA 350+89.00 Baxter CL BF -37.0 LT
ELEVATION 635.73

STA 163+66.41 US2CL -75.0 LT=
STA 350+75.00 Baxter CL BF -36.0 LT
ELEVATION 635.83

STA 163+69.37 US2CL -61.0 LT=
STA 350+61.00 Baxter CL BF -33.0 LT
ELEVATION 635.93

STA 163+76.41 US2CL -89.0 LT=
STA 350+89.00 Baxter CL BF -26.0 LT

STA 163+76.41 US2CL -75.0 LT=
STA 350+75.02 Baxter CL BF -26.0 LT

STA 163+76.41 US2CL -177.5 LT=
STA 351+77.50 Baxter CL BF -26.0 LT

STA 163+76.41 US2CL -166.0 LT=
STA 351+66.00 Baxter CL BF -26.0 LT
ELEVATION 635.15

STA 163+83.40 US2CL -192.5 LT=
STA 351+92.50 Baxter CL BF -19.0 LT
ELEVATION 635.53

637.00 TC
636.64 TC
636.32 TC
635.74 TC
635.38 TC
636.14
636.00
636.50
635.82
635.53
635.37
635.77
636.14
635.83
635.73
635.66
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634.94
634.98
634.99
634.88
634.82
634.66
634.95
634.56

CC1 CC2 CC3 CC4 CC5 CC6 CC7 CC8 CC9 CC10 CC11

7.5' 7.5' 124.0' 53.0' 6.0' 48.0' 20.0' 20.0'

9+00 10+00 163+50 164+00 164+50 350+00 351+00 352+00

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - BAXTER AVE - NW PARKING LOT	SHEET 63	E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 166+70.87 US 2	60.0'RT	98.0'R	Y= 305348.613 X= 149560.500
CC2	STA 167+17.55 US 2 STA 370+59.00 GRAND AVE	59.0'LT 55.0'LT	27.0'R	Y= 305467.261 X= 149608.068
CC3	STA 167+87.55 US 2 STA 370+79.76 GRAND AVE	79.8'LT 15.0'RT	13.0'R	Y= 305487.503 X= 149678.220
CC4	STA 168+21.55 US 2 STA 370+60.00 GRAND AVE	60.0'LT 49.0'RT	27.0'R	Y= 305467.483 X= 149712.072
CC5	STA 168+77.16 US 2	60.0'LT	98.0'R	Y= 305467.068 X= 149767.681
CC6	STA 169+73.18 US 2	2.0'RT	4.0'R	Y= 305404.352 X= 149863.233
CC7	STA 168+77.16 US 2	60.0'RT	98.0'R	Y= 305347.071 X= 149766.785
CC8	STA 168+26.56 US 2 STA 359+35.00 LAMBORN AVE	65.0'RT 54.0'RT	32.0'R	Y= 305342.450 X= 149716.141

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC9	STA 358+99.04 LAMBORN AVE STA 100+50.82 GRAND AVE	59.0'RT 53.3'LT	37.0'R	Y= 305306.457 X= 149720.873
CC10	STA 167+63.56 US 2 STA 359+23.74 LAMBORN AVE	76.3'RT 9.0'LT	13.0'R	Y= 305331.656 X= 149653.059
CC11	STA 167+35.06 US 2 STA 359+46.00 LAMBORN AVE	54.0'LT 37.5'LT	22.0'R	Y= 305354.133 X= 149624.726
CC12	STA 167+13.37 US 2 STA 359+16.00 LAMBORN AVE	84.0'RT 59.2'LT	52.0'R	Y= 305324.296 X= 149602.816
CC13	STA 166+70.87 US 2	60.0'LT	98.0'R	Y= 305468.609 X= 149561.397
CC14	STA 357+97.33 LAMBORN AVE STA 100+41.92 GRAND AVE	42.8'RT 49.7'RT	66.0'R	Y= 305204.866 X= 149703.896
CC15	STA 358+07.00 LAMBORN AVE STA 100+43.97 GRAND AVE	43.2'RT 40.0'RT	27.0'R	Y= 305214.534 X= 149704.436
CC16	STA 358+90.30 LAMBORN AVE STA 100+52.83 GRAND AVE	61.5'RT 45.1'LT	20.0'R	Y= 305297.692 X= 149723.307
CC17	STA 359+15.00 LAMBORN AVE STA 168+38.58 US 2	66.0'RT 85.0'RT	52.0'R	Y= 305322.360 X= 149728.019
CC18	STA 370+85.00 GRAND AVE STA 168+38.58 US 2	66.0'RT 85.0' LT	52.0'R	Y= 305492.356 X= 149729.289
CC19	STA 370+84.00 GRAND AVE STA 167+13.37 US 2	59.2'LT 84.0'LT	52.0'R	Y= 305492.291 X= 149604.072
CC20	STA 359+44.33 LAMBORN AVE STA 167+40.06 US 2	32.5'LT 55.7'RT	17.0'R	Y= 305352.421 X= 149629.714
CC21	STA 370+60.54 GRAND AVE STA 168+11.55 US 2	39.0'RT 60.5'LT	17.0'R	Y= 305468.097 X= 149702.077

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - GRAND AVE & LAMBORN AVE	SHEET 64 E

2

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 170+44.11 US 2	60.0'RT	98.0'R	Y= 305345.824 X= 149934.728
CC2	STA 170+82.69 US 2 STA 380+85.00 WEEKS AVE	85.0'LT 60.0'LT	52.0'R	Y= 305490.531 X= 149973.392
CC3	STA 171+02.69 US 2 STA 380+60.00 WEEKS AVE	60.0'LT 40.0'LT	27.0'R	Y= 305465.383 X= 149993.205
CC4	STA 171+12.69 US 2 STA 380+60.58 WEEKS AVE	60.6'LT 30.0'LT	17.0'R	Y= 305465.891 X= 150003.209
CC5	STA 380+81.27 WEEKS AVE	6.0'LT	13.0'R	Y= 305486.394 X= 150027.361
CC6	STA 171+82.69 US 2 STA 380+60.00 WEEKS AVE	60.0'LT 40.0'RT	27.0'R	Y= 305464.785 X= 150073.202
CC7	STA 172+02.36 US 2 STA 380+85.00 WEEKS AVE	85.0'LT 59.7'RT	52.0'R	Y= 305489.637 X= 150093.058
CC8	STA 172+40.83 US 2	60.0'RT	98.0'R	Y= 305344.354 X= 150130.445
CC9	STA 172+33.56 US 2	2.0'RT	4.0'R	Y= 305402.406 X= 150123.610

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC10	STA 172+12.40 US 2	56.0'RT	62.0'R	Y= 305348.566 X= 150102.041
CC11	STA 171+78.34 US 2 STA 380+02.00 WEEKS AVE	2.0'LT 35.6'RT	4.0'R	Y= 305406.819 X= 150068.415
CC12	STA 171+99.50 US 2 STA 380+56.00 WEEKS AVE	56.0'LT 56.8'RT	62.0'R	Y= 305460.569 X= 150089.984
CC13	STA 170+35.18 US 2	2.0'LT	4.0'R	Y= 305407.889 X= 149925.262
CC14	STA 171+10.31 US 2	95.0'RT	101.0'R	Y= 305311.077 X= 149899.666
CC15	STA 169+73.18 US 2	2.0'RT	4.0'R	Y= 305404.352 X= 149863.233
CC16	STA 169+98.05 US 2	95.0'LT	101.0'R	Y= 305501.164 X= 149888.828

2

N

WEEKS AVE

381+00

CONCRETE CURB AND GUTTER 30" TYPE D

STA 380+60.00
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL (REVERSE SLOPE GUTTER) (TYP)

CONCRETE MEDIAN NOSE TYPE 1 (TYP)

CONCRETE SIDEWALK 6" (TYP)

US 2 - (BELKNAP ST)

BP: 380+00.00

STA 171+42.70 US 2 =
STA 380+00.00 WEEKS AVE

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

SLOPE INTERCEPT (TYP)

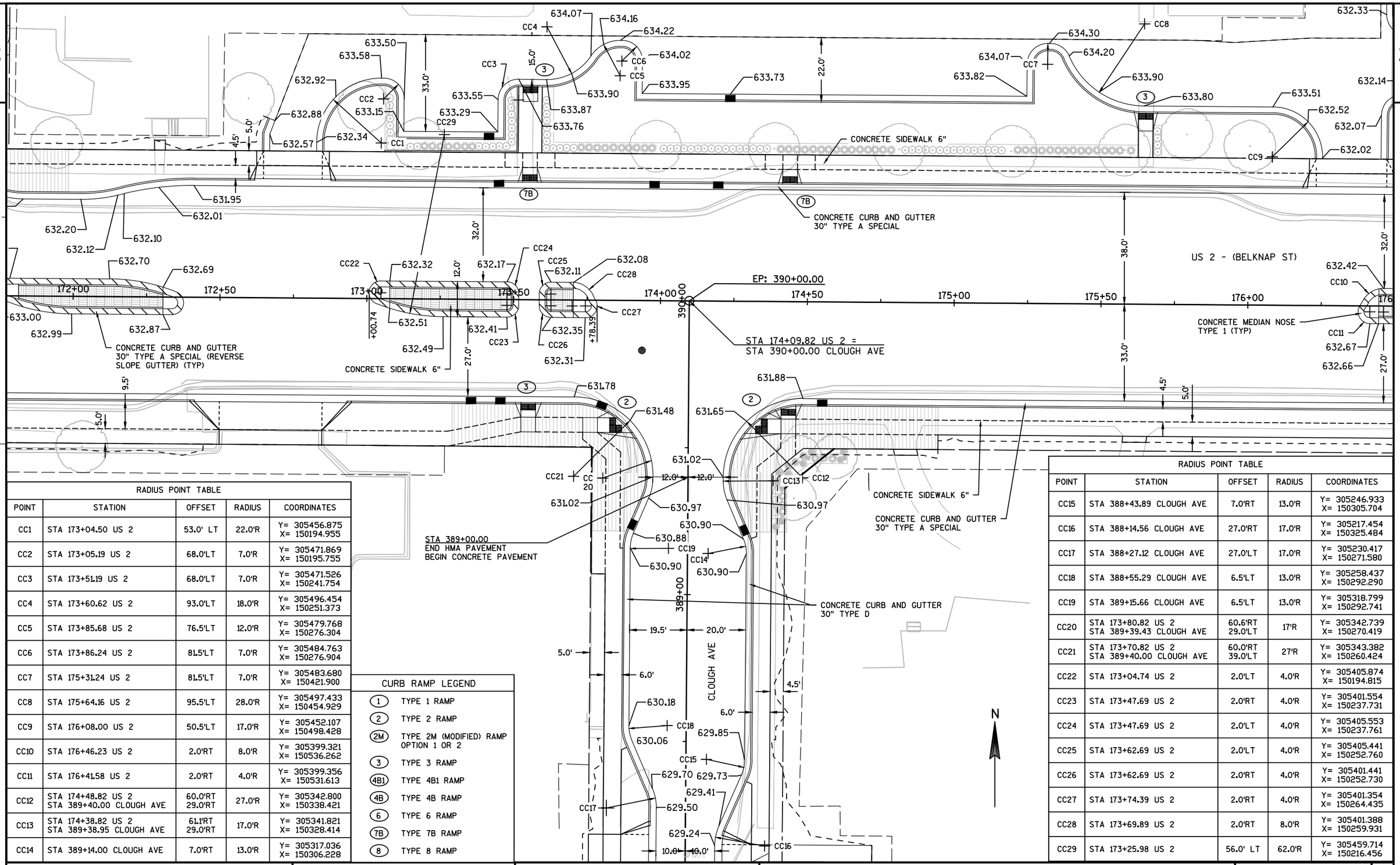
XXX

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC17	STA 170+21.51 US 2	60.0'LT	98.0'R	Y= 305465.989 X= 149912.029
CC18	STA 170+59.80 US 2	82.5'RT	49.5'R	Y= 305323.207 X= 149949.248

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - WEEKS AVE	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:55 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:30 FT_XREF

WISDOT/CADDS SHEET 42



RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 173+04.50 US 2	53.0' LT	22.0'R	Y= 305456.875 X= 150194.955
CC2	STA 173+05.19 US 2	68.0'LT	7.0'R	Y= 305471.869 X= 150195.755
CC3	STA 173+51.19 US 2	68.0'LT	7.0'R	Y= 305471.526 X= 150241.754
CC4	STA 173+60.62 US 2	93.0'LT	18.0'R	Y= 305496.454 X= 150251.373
CC5	STA 173+85.68 US 2	76.5'LT	12.0'R	Y= 305479.768 X= 150276.304
CC6	STA 173+86.24 US 2	81.5'LT	7.0'R	Y= 305484.763 X= 150276.904
CC7	STA 175+31.24 US 2	81.5'LT	7.0'R	Y= 305483.680 X= 150421.900
CC8	STA 175+64.16 US 2	95.5'LT	28.0'R	Y= 305497.433 X= 150454.929
CC9	STA 176+08.00 US 2	50.5'LT	17.0'R	Y= 305452.107 X= 150498.428
CC10	STA 176+46.23 US 2	2.0'RT	8.0'R	Y= 305399.321 X= 150536.262
CC11	STA 176+41.58 US 2	2.0'RT	4.0'R	Y= 305399.356 X= 150531.613
CC12	STA 174+48.82 US 2 STA 389+40.00 CLOUGH AVE	60.0'RT 29.0'RT	27.0'R	Y= 305342.800 X= 150338.421
CC13	STA 174+38.82 US 2 STA 389+38.95 CLOUGH AVE	61.1'RT 29.0'RT	17.0'R	Y= 305341.821 X= 150328.414
CC14	STA 389+14.00 CLOUGH AVE	7.0'RT	13.0'R	Y= 305317.036 X= 150306.228

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC15	STA 388+43.89 CLOUGH AVE	7.0'RT	13.0'R	Y= 305246.933 X= 150305.704
CC16	STA 388+14.56 CLOUGH AVE	27.0'RT	17.0'R	Y= 305217.454 X= 150325.484
CC17	STA 388+27.12 CLOUGH AVE	27.0'LT	17.0'R	Y= 305230.417 X= 150271.580
CC18	STA 388+55.29 CLOUGH AVE	6.5'LT	13.0'R	Y= 305258.437 X= 150292.290
CC19	STA 389+15.66 CLOUGH AVE	6.5'LT	13.0'R	Y= 305318.799 X= 150292.741
CC20	STA 173+80.82 US 2 STA 389+39.43 CLOUGH AVE	60.6'RT 29.0'LT	17'R	Y= 305342.739 X= 150270.419
CC21	STA 173+70.82 US 2 STA 389+40.00 CLOUGH AVE	60.0'RT 39.0'LT	27'R	Y= 305343.382 X= 150260.424
CC22	STA 173+04.74 US 2	2.0'LT	4.0'R	Y= 305405.874 X= 150194.815
CC23	STA 173+47.69 US 2	2.0'RT	4.0'R	Y= 305401.554 X= 150237.731
CC24	STA 173+47.69 US 2	2.0'LT	4.0'R	Y= 305405.553 X= 150237.761
CC25	STA 173+62.69 US 2	2.0'LT	4.0'R	Y= 305405.441 X= 150252.760
CC26	STA 173+62.69 US 2	2.0'RT	4.0'R	Y= 305401.441 X= 150252.730
CC27	STA 173+74.39 US 2	2.0'RT	4.0'R	Y= 305401.354 X= 150264.435
CC28	STA 173+69.89 US 2	2.0'RT	8.0'R	Y= 305401.388 X= 150259.931
CC29	STA 173+25.98 US 2	56.0' LT	62.0'R	Y= 305459.714 X= 150216.456

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - CLOUGH AVE	SHEET 66 E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 176+57.37 US 2	2.0'LT	4.0'R	Y= 305403.238 X= 150547.431
CC2	STA 176+72.37 US 2	2.0'LT	4.0'R	Y= 305403.127 X= 150562.430
CC3	STA 177+23.79 US 2	2.0'LT	4.0'R	Y= 305402.744 X= 150613.857
CC4	STA 176+72.37 US 2	2.0'RT	4.0'R	Y= 305399.127 X= 150562.400
CC5	STA 176+57.37 US 2	2.0'RT	4.0'R	Y= 305399.238 X= 150547.401
CC6	STA 177+43.11 US 2	55'LT	98.0'R	Y= 305455.597 X= 150633.568
CC7	STA 177+73.00 US 2	55'LT	98.0'R	Y= 305455.374 X= 150663.458
CC8	STA 178+37.97 US 2 STA 400+60.00 FISHER AVE	60.0'LT 45.0'LT	27.0'R	Y= 305459.888 X= 150728.464
CC9	STA 178+52.97 US 2 STA 400+64.45 FISHER AVE	64.5'LT 30.0'LT	12.0'R	Y= 305464.226 X= 150743.497

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC10	STA 401+15.95 FISHER AVE	30.0'LT	12.0'R	Y= 305515.723 X= 150743.879
CC11	STA 401+69.67 FISHER AVE	35.0'LT	17.0'R	Y= 305569.567 X= 150739.278
CC12	STA 179+27.97 US 2 STA 400+60.00 FISHER AVE	60.0'LT 45.0'RT	27.0'R	Y= 305459.216 X= 150818.461
CC13	STA 176+52.00 US 2	65.0'LT	7.0'R	Y= 305466.241 X= 150542.535
CC14	STA 176+76.63 US 2	67.3'LT	7.0'R	Y= 305468.438 X= 150567.181
CC15	STA 176+70.69 US 2	101.0'LT	7.0'R	Y= 305502.065 X= 150561.493
CC16	STA 176+53.54 US 2	99.3'LT	7.0'R	Y= 305500.536 X= 150544.328
CC17	STA 178+21.14 US 2 STA 400+85.00 FISHER AVE	85.0'LT 61.83'LT	52.0'R	Y= 305485.013 X= 150711.819

N

FISHER AVE

END CONSTRUCTION
STA 402+15.00
MATCH EXISTING
SAWCUT REQ'D

CONCRETE CURB AND GUTTER
30" TYPE D

STA 400+60.00
BEGIN CONCRETE PAVEMENT
END HMA PAVEMENT

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL

CONCRETE SIDEWALK 6"

SAWCUT REQ'D

SAWCUT REQ'D 35.0' LT

CONCRETE SIDEWALK 6"

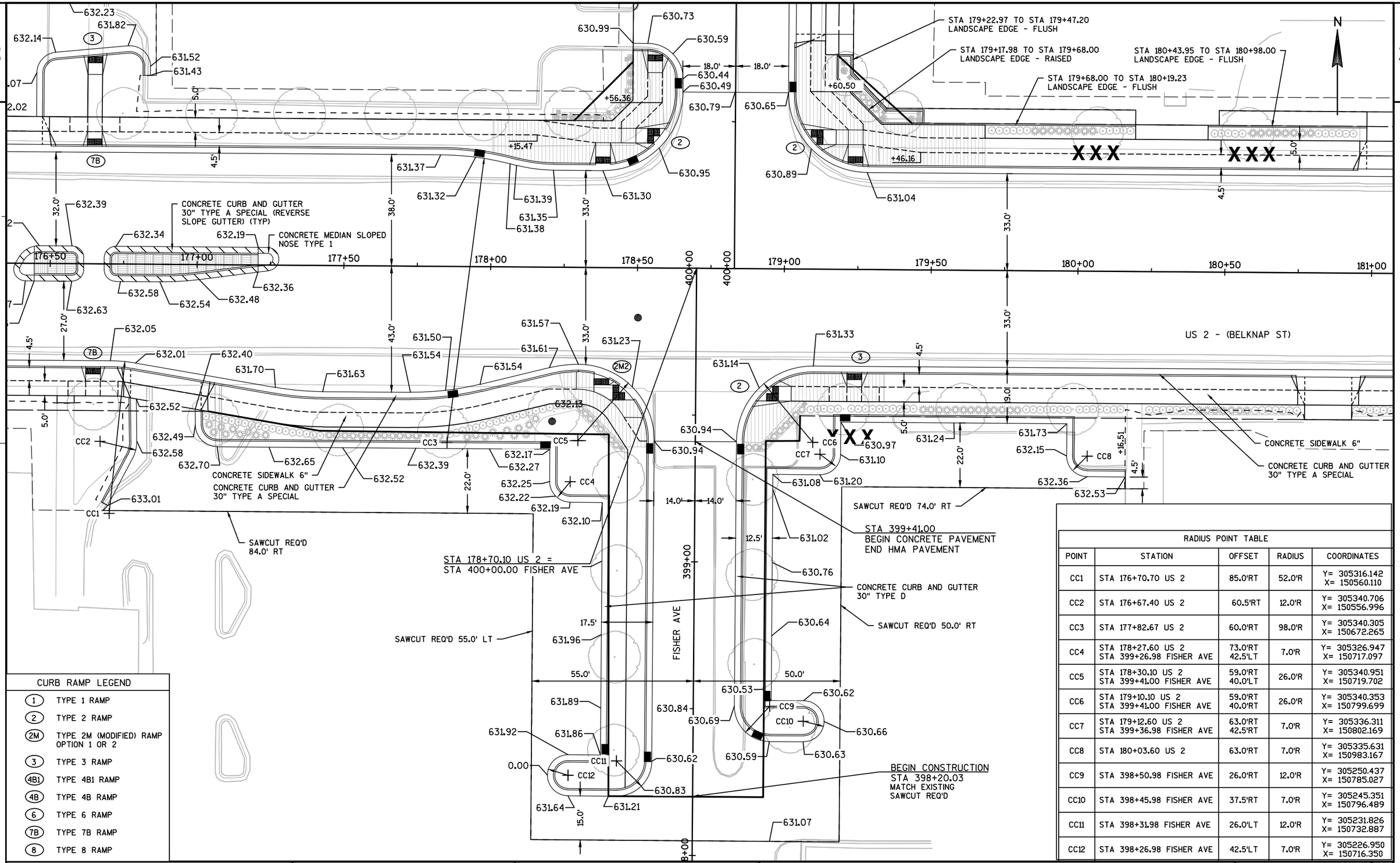
CONCRETE MEDIAN NOSE
TYPE 1

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL (REVERSE
SLOPE GUTTER) (TYP)

STA 178+82.98 US 2 =
STA 400+00.00 FISHER AVE

US 2 - (BELKNAP ST)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - FISHER AVE	SHEET 67 E

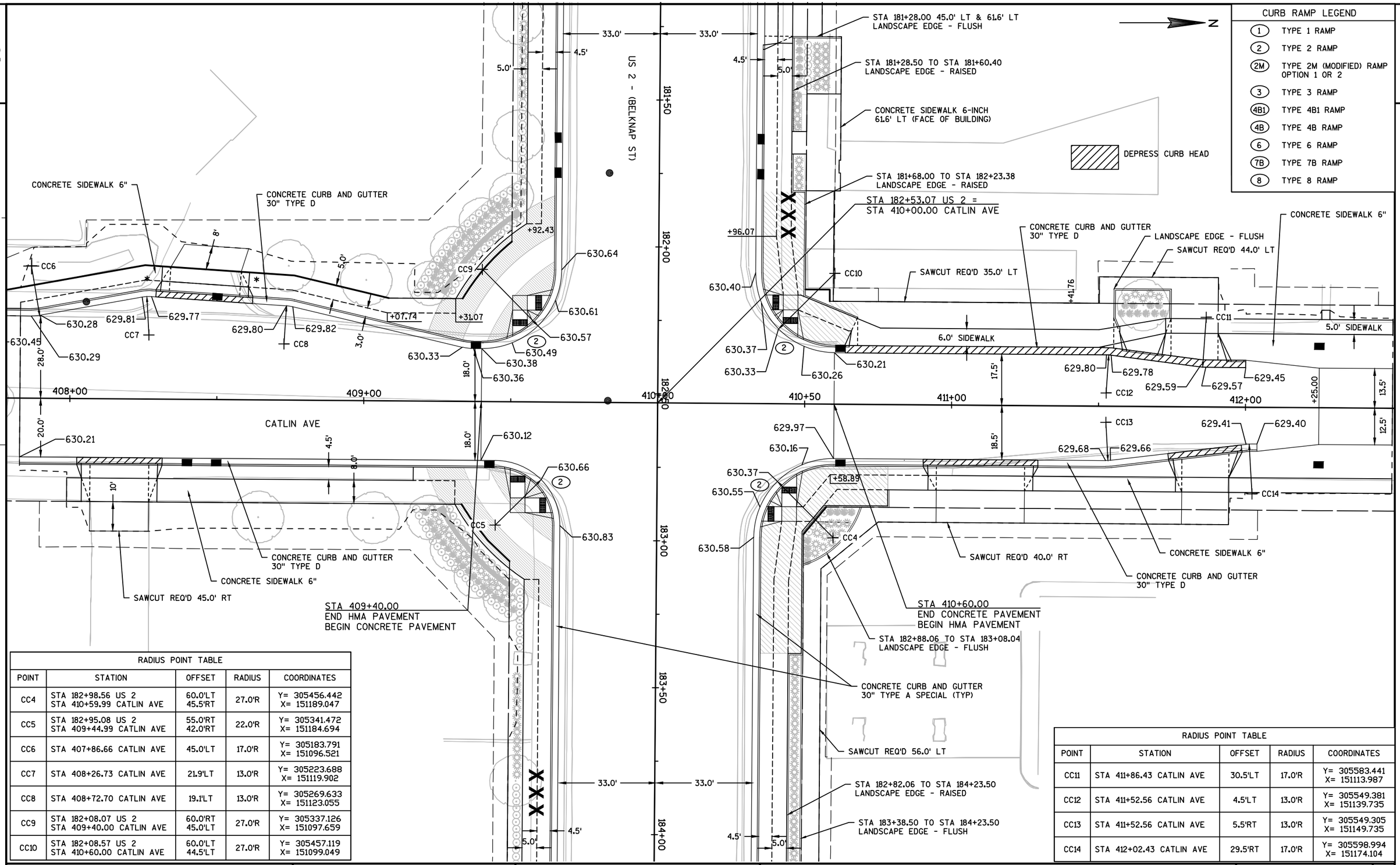


CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 176+70.70 US 2	85.0'RT	52.0'R	Y= 305316.142 X= 150560.110
CC2	STA 176+67.40 US 2	60.5'RT	12.0'R	Y= 305340.706 X= 150556.996
CC3	STA 177+82.67 US 2	60.0'RT	98.0'R	Y= 305340.305 X= 150672.265
CC4	STA 178+27.60 US 2 STA 399+26.98 FISHER AVE	73.0'RT 42.5'LT	7.0'R	Y= 305326.947 X= 150717.097
CC5	STA 178+30.10 US 2 STA 399+41.00 FISHER AVE	59.0'RT 40.0'LT	26.0'R	Y= 305340.951 X= 150719.702
CC6	STA 179+10.10 US 2 STA 399+41.00 FISHER AVE	59.0'RT 40.0'RT	26.0'R	Y= 305340.353 X= 150799.699
CC7	STA 179+12.60 US 2 STA 399+36.98 FISHER AVE	63.0'RT 42.5'RT	7.0'R	Y= 305336.311 X= 150802.169
CC8	STA 180+03.60 US 2	63.0'RT	7.0'R	Y= 305335.631 X= 150983.167
CC9	STA 398+50.98 FISHER AVE	26.0'RT	12.0'R	Y= 305250.437 X= 150785.027
CC10	STA 398+45.98 FISHER AVE	37.5'RT	7.0'R	Y= 305245.351 X= 150796.489
CC11	STA 398+31.98 FISHER AVE	26.0'LT	12.0'R	Y= 305231.826 X= 150732.887
CC12	STA 398+26.98 FISHER AVE	42.5'LT	7.0'R	Y= 305226.950 X= 150716.350

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - FISHER AVE	SHEET 68 E



RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC4	STA 182+98.56 US 2 STA 410+59.99 CATLIN AVE	60.0'LT 45.5'RT	27.0'R	Y= 305456.442 X= 151189.047
CC5	STA 182+95.08 US 2 STA 409+44.99 CATLIN AVE	55.0'RT 42.0'RT	22.0'R	Y= 305341.472 X= 151184.694
CC6	STA 407+86.66 CATLIN AVE	45.0'LT	17.0'R	Y= 305183.791 X= 151096.521
CC7	STA 408+26.73 CATLIN AVE	21.9'LT	13.0'R	Y= 305223.688 X= 151119.902
CC8	STA 408+72.70 CATLIN AVE	19.1'LT	13.0'R	Y= 305269.633 X= 151123.055
CC9	STA 182+08.07 US 2 STA 409+40.00 CATLIN AVE	60.0'RT 45.0'LT	27.0'R	Y= 305337.126 X= 151097.659
CC10	STA 182+08.57 US 2 STA 410+60.00 CATLIN AVE	60.0'LT 44.5'LT	27.0'R	Y= 305457.119 X= 151099.049

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC11	STA 411+86.43 CATLIN AVE	30.5'LT	17.0'R	Y= 305583.441 X= 151113.987
CC12	STA 411+52.56 CATLIN AVE	4.5'LT	13.0'R	Y= 305549.381 X= 151139.735
CC13	STA 411+52.56 CATLIN AVE	5.5'RT	13.0'R	Y= 305549.305 X= 151149.735
CC14	STA 412+02.43 CATLIN AVE	29.5'RT	17.0'R	Y= 305598.994 X= 151174.104

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - CATLIN AVE	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:57 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:30 FT_XREF
WISDOT/CADDS SHEET 42

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 185+40.64 US 2 STA 420+60.00 BIRCH AVE	60.0'LT 38.5'LT	27.0'R	Y= 305454.611 X= 151431.115
CC2	STA 420+95.50 BIRCH AVE	4.5'LT	13.0'R	Y= 305489.852 X= 151465.381
CC3	STA 420+95.50 BIRCH AVE	5.5'RT	13.0'R	Y= 305489.779 X= 151475.381
CC4	STA 186+18.64 US 2 STA 420+60.00 BIRCH AVE	60.0'LT 39.5'RT	27.0'R	Y= 305454.021 X= 151509.113
CC5	STA 186+04.30 US 2 STA 420+02.00 BIRCH AVE	2.0'LT 25.2'RT	4.0'R	Y= 305396.131 X= 151494.340
CC6	STA 186+08.64 US 2 STA 420+02.00 BIRCH AVE	2.0'LT 29.7'RT	4.0'R	Y= 305396.098 X= 151498.678
CC7	STA 186+23.64 US 2 STA 420+02.00 BIRCH AVE	2.0'LT 44.5'RT	4.0'R	Y= 305395.985 X= 151513.677
CC8	STA 186+23.64 US 2	2.0'RT	4.0'R	Y= 305391.985 X= 151513.647
CC9	STA 186+08.64 US 2	2.0'RT	4.0'R	Y= 305392.098 X= 151498.648
CC10	STA 186+07.31 US 2 STA 420+01.00 BIRCH AVE	1.0'LT 28.2'RT	7.0'R	Y= 305395.108 X= 151497.340
CC11	STA 187+17.49 US 2 STA 420+95.99 BIRCH AVE	96.0'LT 138.4'RT	102.0'R	Y= 305489.272 X= 151608.235
CC12	STA 187+50.28 US 2	2.0'LT	4.0'R	Y= 305395.026 X= 151640.313

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC13	STA 422+12.75 BIRCH AVE	32.6'LT	17.0'R	Y= 305607.311 X= 151438.163
CC14	STA 422+00.66 BIRCH AVE	4.5'LT	13.0'R	Y= 305595.008 X= 151466.171
CC15	STA 421+99.04 BIRCH AVE	5.5'RT	13.0'R	Y= 305593.318 X= 151476.159
CC16	STA 422+12.08 BIRCH AVE	33.4'RT	17.0'R	Y= 305606.141 X= 151504.156
CC17	STA 186+08.64 US 2 STA 420+62.99 BIRCH AVE	63.0'LT 29.5'RT	17.0'R	Y= 305457.087 X= 151499.136

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

N

628.78 628.88 CC13 628.82 CC16 628.84 422+00 CC14 CC15 628.85 628.84

END CONSTRUCTION
STA 422+15.00
MATCH EXISTING
SAWCUT REQ'D

SAWCUT REQ'D 35.0' LT
SAWCUT REQ'D 35.0' LT
SAWCUT REQ'D 35.0' RT
SAWCUT REQ'D 35.0' RT
CONCRETE CURB AND GUTTER
30" TYPE D

BIRCH AVE
4.5' 5.0' 17.5' 18.5' 4.5' 5.0'

STA 420+60.00
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

629.12 629.09 421+00 CC3 CC2 629.07 629.09

629.02 629.00 CC1 13.0' CC17 CC4 11.5' 12.5' 629.02 629.06 629.56 629.47 629.67 629.86

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL
CONCRETE SIDEWALK 6"
SAWCUT REQ'D 56.0' LT
SAWCUT REQ'D 50.0' RT
TLE

+31.30 +38.64

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL (REVERSE
SLOPE GUTTER) (TYP)
CONCRETE SIDEWALK 6"
CONCRETE MEDIAN SLOPED
NOSE TYPE 1 (TYP)

630.48 630.40 630.39 CC6 CC5 630.48 CC7 630.06 +54.28 186+00 186+50 187+00 187+50 CC10 CC9 630.63 630.56 630.64 CC8 CC12 7.5:1 630.23 630.39

184+00 184+50 185+00 185+50 420+00 186+00 188+00

STA 185+79.14 US 2 =
STA 420+00.00 BIRCH AVE

US 2 - (BELKNAP ST)

33.0' 27.0' 12.0'

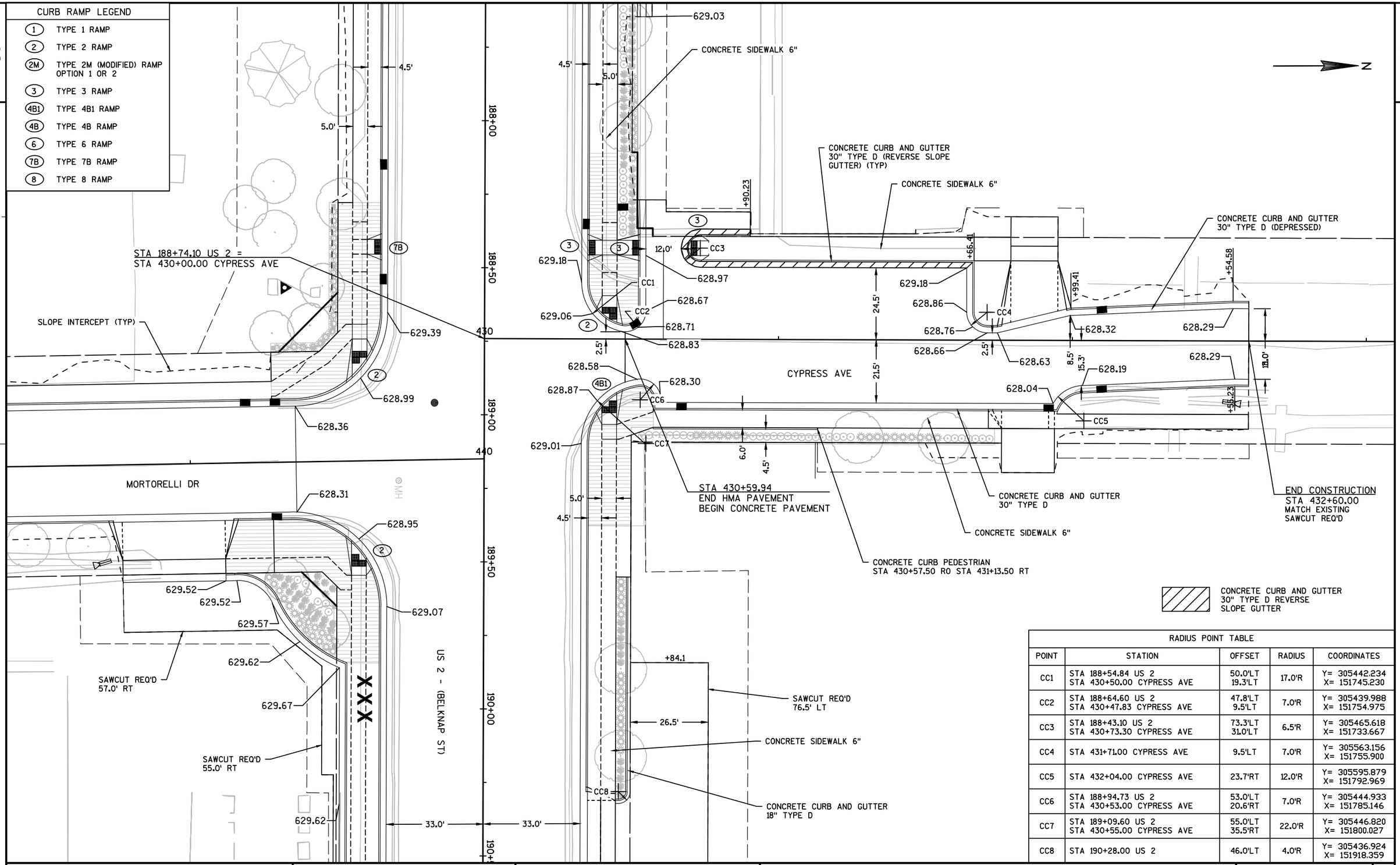
CC11 629.03 CONCRETE SIDEWALK 6" 629.13 629.07 CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL 629.24 629.09

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL
CONCRETE SIDEWALK 6"

7B 7B

PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - BIRCH AVE	SHEET 70	E

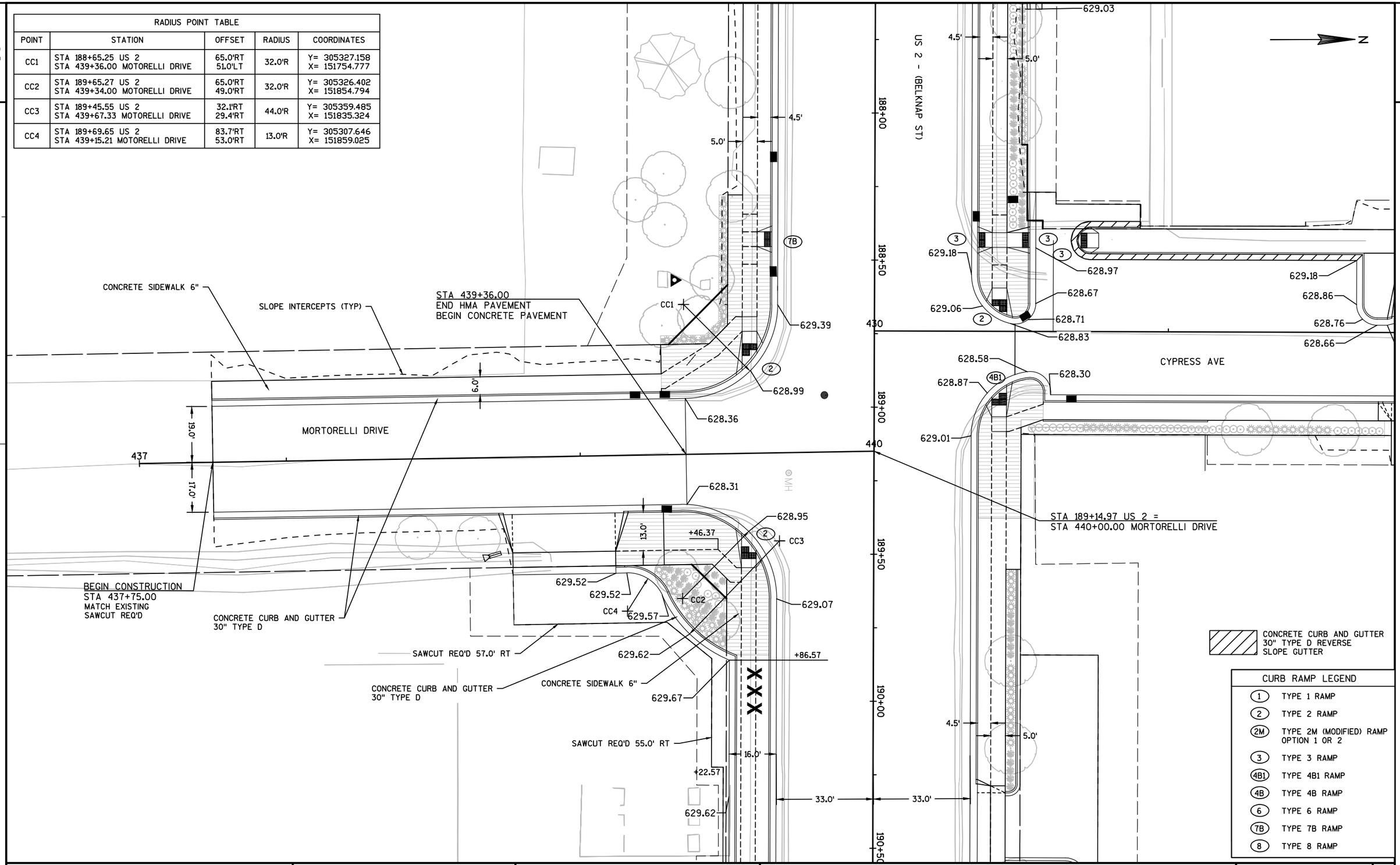
CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP



RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 188+54.84 US 2 STA 430+50.00 CYPRESS AVE	50.0'LT 19.3'LT	17.0'R	Y= 305442.234 X= 151745.230
CC2	STA 188+64.60 US 2 STA 430+47.83 CYPRESS AVE	47.8'LT 9.5'LT	7.0'R	Y= 305439.988 X= 151754.975
CC3	STA 188+43.10 US 2 STA 430+73.30 CYPRESS AVE	73.3'LT 31.0'LT	6.5'R	Y= 305465.618 X= 151733.667
CC4	STA 431+71.00 CYPRESS AVE	9.5'LT	7.0'R	Y= 305563.156 X= 151755.900
CC5	STA 432+04.00 CYPRESS AVE	23.7'RT	12.0'R	Y= 305595.879 X= 151792.969
CC6	STA 188+94.73 US 2 STA 430+53.00 CYPRESS AVE	53.0'LT 20.6'RT	7.0'R	Y= 305444.933 X= 151785.146
CC7	STA 189+09.60 US 2 STA 430+55.00 CYPRESS AVE	55.0'LT 35.5'RT	22.0'R	Y= 305446.820 X= 151800.027
CC8	STA 190+28.00 US 2	46.0'LT	4.0'R	Y= 305436.924 X= 151918.359

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - CYPRESS AVE & MORTORELLI DRIVE	SHEET 71 E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 188+65.25 US 2 STA 439+36.00 MOTORELLI DRIVE	65.0'RT 51.0'LT	32.0'R	Y= 305327.158 X= 151754.777
CC2	STA 189+65.27 US 2 STA 439+34.00 MOTORELLI DRIVE	65.0'RT 49.0'RT	32.0'R	Y= 305326.402 X= 151854.794
CC3	STA 189+45.55 US 2 STA 439+67.33 MOTORELLI DRIVE	32.1'RT 29.4'RT	44.0'R	Y= 305359.485 X= 151835.324
CC4	STA 189+69.65 US 2 STA 439+15.21 MOTORELLI DRIVE	83.7'RT 53.0'RT	13.0'R	Y= 305307.646 X= 151859.025

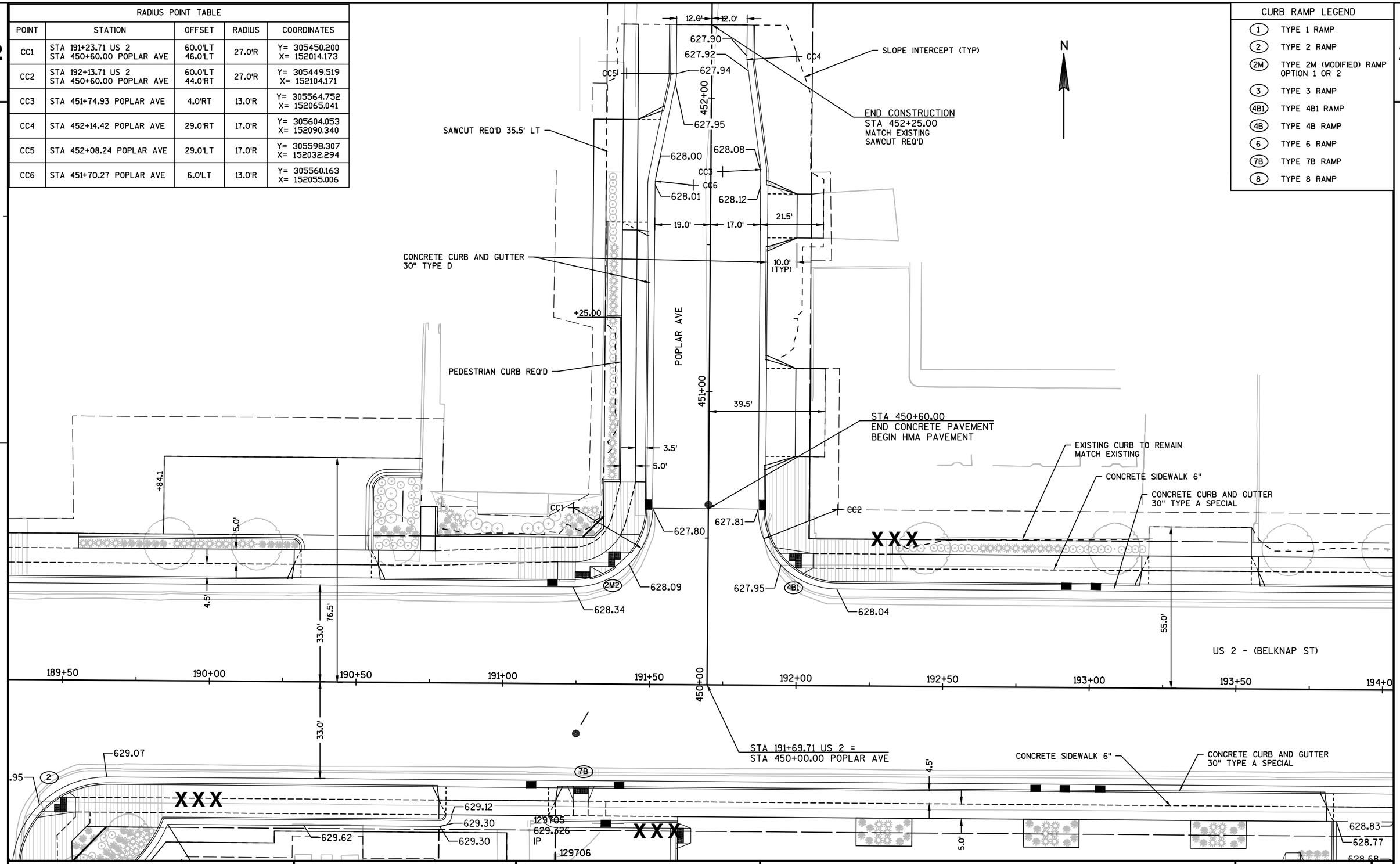


PROJECT NO:8680-00-71	HWY:US 2 - BELKNAP ST	COUNTY:DOUGLAS	INTERSECTION DETAIL - CYPRESS AVE & MORTORELLI DRIVE	SHEET 72	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG
PLOT DATE : 10/24/2016 12:57 PM
PLOT BY : SCOTT WAHLER
PLOT NAME :
PLOT SCALE : 1 IN:30 FT_XREF
WISDOT/CADDS SHEET 42

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 191+23.71 US 2 STA 450+60.00 POPLAR AVE	60.0'LT 46.0'LT	27.0'R	Y= 305450.200 X= 152014.173
CC2	STA 192+13.71 US 2 STA 450+60.00 POPLAR AVE	60.0'LT 44.0'RT	27.0'R	Y= 305449.519 X= 152104.171
CC3	STA 451+74.93 POPLAR AVE	4.0'RT	13.0'R	Y= 305564.752 X= 152065.041
CC4	STA 452+14.42 POPLAR AVE	29.0'RT	17.0'R	Y= 305604.053 X= 152090.340
CC5	STA 452+08.24 POPLAR AVE	29.0'LT	17.0'R	Y= 305598.307 X= 152032.294
CC6	STA 451+70.27 POPLAR AVE	6.0'LT	13.0'R	Y= 305560.163 X= 152055.006

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP



PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - POPLAR AVE	SHEET 73 E

2

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 461+73.50 PINE AVE	24.0'LT	17.0'R	Y= 305558.600 X= 152688.492
CC2	STA 461+36.50 PINE AVE	33.0'LT	4.0'R	Y= 305521.669 X= 152679.214
CC3	STA 461+36.50 PINE AVE	28.0'LT	4.0'R	Y= 305521.631 X= 152684.214
CC4	STA 197+89.20 US 2 STA 460+60.00 PINE AVE	60.0'LT 32.0'LT	27.0'R	Y= 305445.165 X= 152679.640
CC5	STA 198+09.20 US 2 STA 460+61.00 PINE AVE	61.0'LT 12.0'LT	7.0'R	Y= 305446.015 X= 152699.647
CC6	STA 198+67.20 US 2 STA 460+60.00 PINE AVE	60.0'LT 46.0'RT	27.0'R	Y= 305444.575 X= 152757.638
CC7	STA 198+72.35 US 2	2.0'RT	8.0'R	Y= 305382.538 X= 152762.322
CC8	STA 198+71.49 US 2	2.0'LT	4.0'R	Y= 305386.544 X= 152761.495
CC9	STA 198+56.49 US 2	2.0'LT	4.0'R	Y= 305386.658 X= 152746.495
CC10	STA 198+51.39 US 2	2.0'LT	4.0'R	Y= 305386.696 X= 152741.391
CC11	STA 198+55.67 US 2	2.0'LT	8.0'R	Y= 305386.664 X= 152745.669
CC12	STA 198+56.52 US 2	2.0'RT	4.0'R	Y= 305382.657 X= 152746.495
CC13	STA 198+71.52 US 2	2.0'RT	4.0'R	Y= 305382.544 X= 152761.495

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC14	STA 198+76.63 US 2	2.0'RT	4.0'R	Y= 305382.505 X= 152766.600
CC15	STA 196+74.94 US 2	95.0'LT	101.0'R	Y= 305481.028 X= 152565.654
CC16	STA 196+43.50 US 2	3.0'LT	3.0'R	Y= 305389.269 X= 152533.511
CC17	STA 196+15.00 US 2	3.0'LT	3.0'R	Y= 305389.485 X= 152505.014
CC18	STA 196+15.00 US 2	3.0'RT	3.0'R	Y= 305383.485 X= 152504.968
CC19	STA 196+43.50 US 2	3.0'RT	3.0'R	Y= 305383.268 X= 152533.465
CC20	STA 198+23.37 US 2	66.0'RT	7.0'R	Y= 305318.910 X= 152712.855
CC21	STA 198+31.37 US 2	66.0'RT	7.0'R	Y= 305318.850 X= 152720.855
CC22	STA 198+77.40 US 2	70.0'RT	7.0'R	Y= 305314.502 X= 152766.853
CC23	STA 198+77.53 US 2	60.0'RT	17.0'R	Y= 305324.500 X= 152767.062
CC24	STA 199+42.60 US 2	69.5'RT	17.0'R	Y= 305314.479 X= 152832.060
CC25	STA 199+42.74 US 2	79.5'RT	7.0'R	Y= 305304.478 X= 152832.118

2

END CONSTRUCTION
STA 461+75.00
MATCH EXISTING
SAWCUT REQ'D

SAWCUT REQ'D 39.0' LT

CONCRETE CURB AND GUTTER
30" TYPE D

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 18"
TYPE D SPECIAL (REVERSE SLOPE
GUTTER)

CONCRETE MEDIAN
SLOPED NOSE TYPE 2

CONCRETE CURB AND
GUTTER 18" TYPE D
SPECIAL (REVERSE SLOPE
GUTTER)

CONCRETE CURB AND GUTTER
18" TYPE A SPECIAL (REVERSE
SLOPE GUTTER) (TYP)

CONCRETE MEDIAN
SLOPED NOSE TYPE 2

STA 198+21.20 US 2 =
STA 460+00.00 PINE AVE

CONCRETE MEDIAN
SLOPED NOSE
TYPE 1

SLOPE INTERCEPT (TYP)

CONCRETE SIDEWALK 6"

CONCRETE
SIDEWALK 6"

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL (REVERSE
SLOPE GUTTER)

CONCRETE SIDEWALK 6"

CONCRETE MEDIAN
SLOPED NOSE
TYPE 1

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL

CONCRETE SIDEWALK 6"

SAWCUT REQ'D 80.0' RT

PINE AVE

US 2 - (BELKNAP ST)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - PINE AVE	SHEET 74 E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 201+07.27 US 2 STA 470+70.00 ELM AVE	70.0'LT 39.0'LT	27.0'R	Y= 305452.755 X= 152997.776
CC2	STA 201+05.27 US 2 STA 470+60.00 ELM AVE	60.0'LT 41.0'LT	27.0'R	Y= 305442.774 X= 152995.702
CC3	STA 201+85.27 US 2 STA 470+70.00 ELM AVE	70.0'LT 39.0'RT	27.0'R	Y= 305452.169 X= 153075.774
CC4	STA 201+87.27 US 2 STA 470+60.00 ELM AVE	60.0'LT 41.0'RT	27.0'R	Y= 305442.154 X= 153077.699
CC5	STA 201+78.66 US 2 STA 469+49.07 ELM AVE	50.0'RT 33.0'RT	17.0'R	Y= 305332.222 X= 153068.256
CC6	STA 201+73.73 US 2 STA 469+46.51 ELM AVE	52.7'RT 28.0'RT	12.0'R	Y= 305329.559 X= 153063.308
CC7	STA 469+03.49 ELM AVE	28.0'RT	12.0'R	Y= 305286.549 X= 153064.165
CC8	STA 201+02.90 US 2 STA 469+41.16 ELM AVE	60.0'RT 43.0'LT	27.0'R	Y= 305322.795 X= 152992.429
CC9	STA 199+42.60 US 2	69.5'RT	17.0'R	Y= 305314.479 X= 152832.060
CC10	STA 199+42.74 US 2	79.5'RT	7.0'R	Y= 305304.478 X= 152832.118
CC11	STA 200+96.36 US 2 STA 469+35.34 ELM AVE	66.0'RT 49.7'LT	7.0'R	Y= 305316.845 X= 152985.845

CURB RAMP LEGEND

1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

N

ELM AVE

CONCRETE CURB AND GUTTER 30" TYPE D

STA 470+70.00
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CONCRETE SIDEWALK 6"

CONCRETE CURB AND GUTTER 30" TYPE A SPECIAL

SLOPE INTERCEPT (TYP)

CC1 627.52 CC3 627.52
CC2 627.62 627.84 627.62 CC4
627.83
628.21 628.32
628.38 628.62
+89.15 +95.78

STA 201+46.27 US 2 =
STA 470+00.00 ELM AVE

STA 201+44.27 US 2 =
STA 470+00.00 ELM AVE

US 2 - (BELKNAP ST)

199+50 200+00 200+50 201+00 201+50 202+00 202+50 203+00 203+50

470+00 471+00 471+50 469+50 469+00

628.61 628.46 628.56 628.84 628.60 628.32 628.28 628.25 628.30 628.27 628.46 628.60 628.48 628.89 628.82 628.73 628.64 628.76 629.24 628.27 629.36 629.65 629.02 628.91

CC5 CC6 CC7 CC8 CC9 CC10 CC11

A HAYES CT

ONE-WAY

TLE

SAWCUT REQ'D 80.0' RT

STA 469+41.00
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

BP: 510+00.00

EP: 511+00.00

END CONSTRUCTION
STA 510+95.00
MATCH EXISTING
SAWCUT REQ'D

PEDESTRIAN CURB REQ'D
STA 468+30.00 TO STA 469+39.21 LT

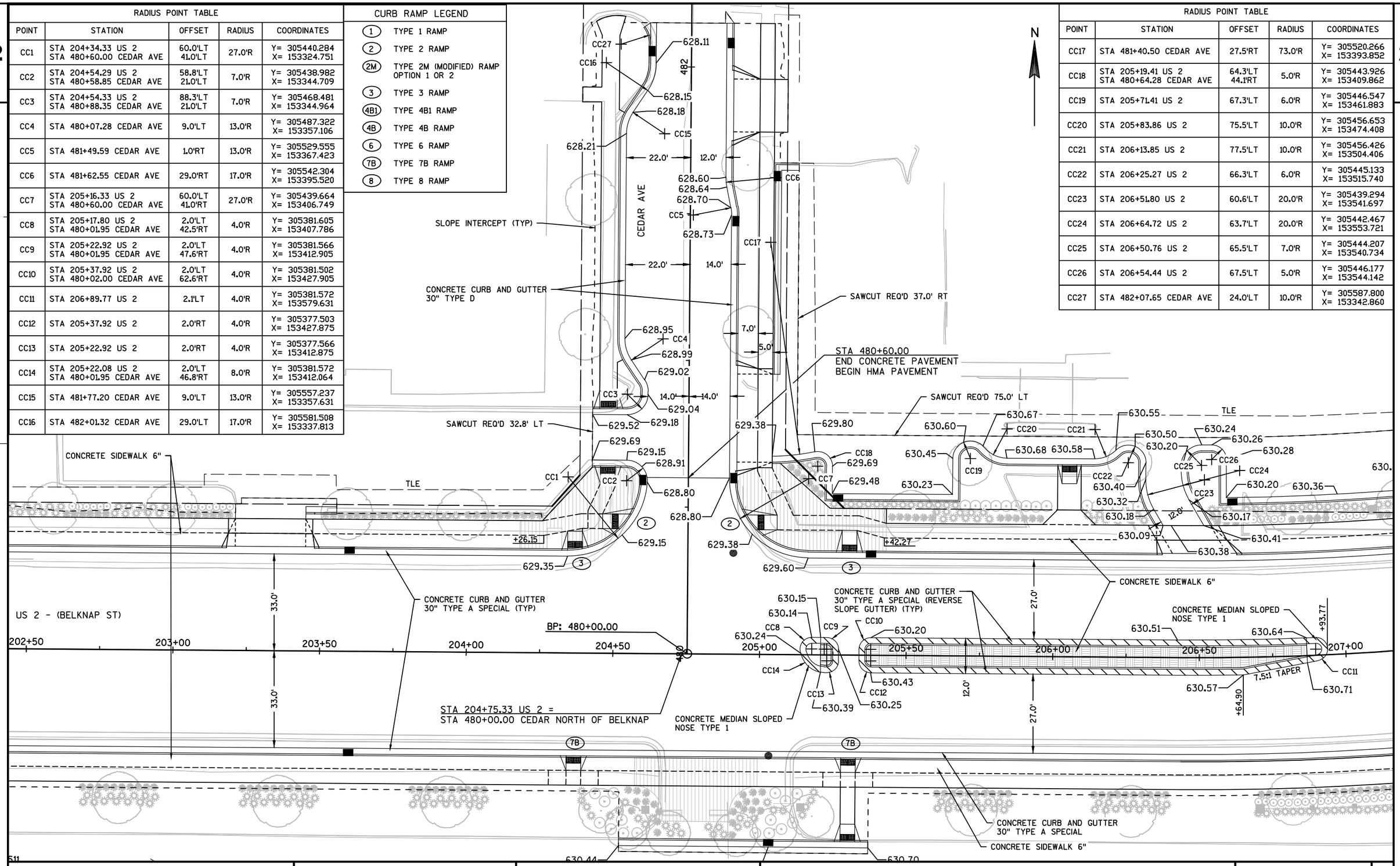
33.0' 5.0' 4.5' 22.0' 10.5' 12.0' 16.0' 31.8' 19.0'

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - ELM AVE	SHEET 75 E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 204+34.33 US 2 STA 480+60.00 CEDAR AVE	60.0'LT 41.0'LT	27.0'R	Y= 305440.284 X= 153324.751
CC2	STA 204+54.29 US 2 STA 480+58.85 CEDAR AVE	58.8'LT 21.0'LT	7.0'R	Y= 305438.982 X= 153344.709
CC3	STA 204+54.33 US 2 STA 480+88.35 CEDAR AVE	88.3'LT 21.0'LT	7.0'R	Y= 305468.481 X= 153344.964
CC4	STA 480+07.28 CEDAR AVE	9.0'LT	13.0'R	Y= 305487.322 X= 153357.106
CC5	STA 481+49.59 CEDAR AVE	1.0'RT	13.0'R	Y= 305529.555 X= 153367.423
CC6	STA 481+62.55 CEDAR AVE	29.0'RT	17.0'R	Y= 305542.304 X= 153395.520
CC7	STA 205+16.33 US 2 STA 480+60.00 CEDAR AVE	60.0'LT 41.0'RT	27.0'R	Y= 305439.664 X= 153406.749
CC8	STA 205+17.80 US 2 STA 480+01.95 CEDAR AVE	2.0'LT 42.5'RT	4.0'R	Y= 305381.605 X= 153407.786
CC9	STA 205+22.92 US 2 STA 480+01.95 CEDAR AVE	2.0'LT 47.6'RT	4.0'R	Y= 305381.566 X= 153412.905
CC10	STA 205+37.92 US 2 STA 480+02.00 CEDAR AVE	2.0'LT 62.6'RT	4.0'R	Y= 305381.502 X= 153427.905
CC11	STA 206+89.77 US 2	2.1'LT	4.0'R	Y= 305381.572 X= 153579.631
CC12	STA 205+37.92 US 2	2.0'RT	4.0'R	Y= 305377.503 X= 153427.875
CC13	STA 205+22.92 US 2	2.0'RT	4.0'R	Y= 305377.566 X= 153412.875
CC14	STA 205+22.08 US 2 STA 480+01.95 CEDAR AVE	2.0'LT 46.8'RT	8.0'R	Y= 305381.572 X= 153412.064
CC15	STA 481+77.20 CEDAR AVE	9.0'LT	13.0'R	Y= 305557.237 X= 153357.631
CC16	STA 482+01.32 CEDAR AVE	29.0'LT	17.0'R	Y= 305581.508 X= 153337.813

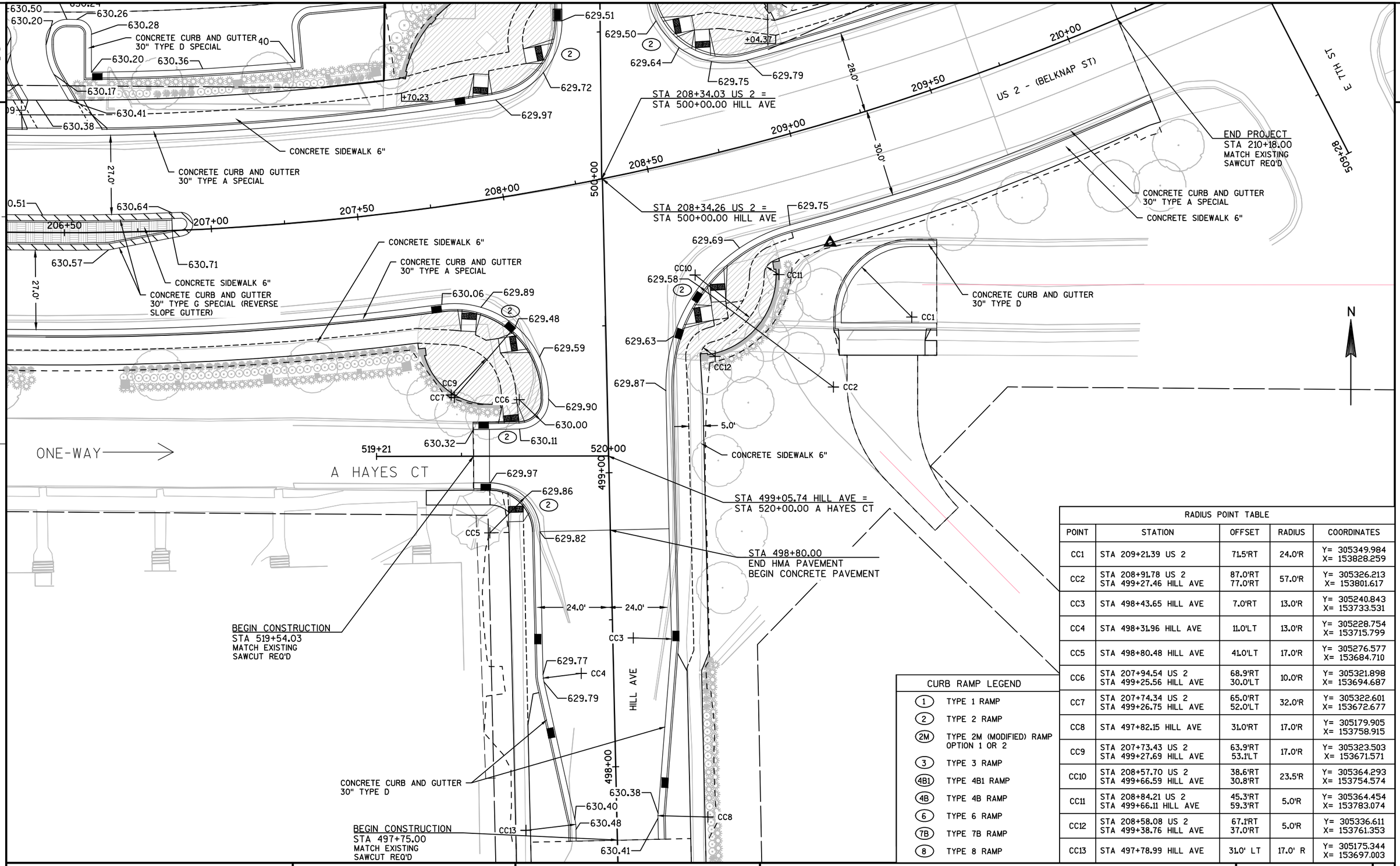
CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC17	STA 481+40.50 CEDAR AVE	27.5'RT	73.0'R	Y= 305520.266 X= 153393.852
CC18	STA 205+19.41 US 2 STA 480+64.28 CEDAR AVE	64.3'LT 44.1'RT	5.0'R	Y= 305443.926 X= 153409.862
CC19	STA 205+71.41 US 2	67.3'LT	6.0'R	Y= 305446.547 X= 153461.883
CC20	STA 205+83.86 US 2	75.5'LT	10.0'R	Y= 305456.653 X= 153474.408
CC21	STA 206+13.85 US 2	77.5'LT	10.0'R	Y= 305456.426 X= 153504.406
CC22	STA 206+25.27 US 2	66.3'LT	6.0'R	Y= 305445.133 X= 153515.740
CC23	STA 206+51.80 US 2	60.6'LT	20.0'R	Y= 305439.294 X= 153541.697
CC24	STA 206+64.72 US 2	63.7'LT	20.0'R	Y= 305442.467 X= 153553.721
CC25	STA 206+50.76 US 2	65.5'LT	7.0'R	Y= 305444.207 X= 153540.734
CC26	STA 206+54.44 US 2	67.5'LT	5.0'R	Y= 305446.177 X= 153544.142
CC27	STA 482+07.65 CEDAR AVE	24.0'LT	10.0'R	Y= 305587.800 X= 153342.860



PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - CEDAR AVE	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:58 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:30 FT_XREF WISDOT/CADDS SHEET 42



CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 209+21.39 US 2	71.5'RT	24.0'R	Y= 305349.984 X= 153828.259
CC2	STA 208+91.78 US 2 STA 499+27.46 HILL AVE	87.0'RT 77.0'RT	57.0'R	Y= 305326.213 X= 153801.617
CC3	STA 498+43.65 HILL AVE	7.0'RT	13.0'R	Y= 305240.843 X= 153733.531
CC4	STA 498+31.96 HILL AVE	11.0'LT	13.0'R	Y= 305228.754 X= 153715.799
CC5	STA 498+80.48 HILL AVE	41.0'LT	17.0'R	Y= 305276.577 X= 153684.710
CC6	STA 207+94.54 US 2 STA 499+25.56 HILL AVE	68.9'RT 30.0'LT	10.0'R	Y= 305321.898 X= 153694.687
CC7	STA 207+74.34 US 2 STA 499+26.75 HILL AVE	65.0'RT 52.0'LT	32.0'R	Y= 305322.601 X= 153672.677
CC8	STA 497+82.15 HILL AVE	31.0'RT	17.0'R	Y= 305179.905 X= 153758.915
CC9	STA 207+73.43 US 2 STA 499+27.69 HILL AVE	63.9'RT 53.1'LT	17.0'R	Y= 305323.503 X= 153671.571
CC10	STA 208+57.70 US 2 STA 499+66.59 HILL AVE	38.6'RT 30.8'RT	23.5'R	Y= 305364.293 X= 153754.574
CC11	STA 208+84.21 US 2 STA 499+66.11 HILL AVE	45.3'RT 59.3'RT	5.0'R	Y= 305364.454 X= 153783.074
CC12	STA 208+58.08 US 2 STA 499+38.76 HILL AVE	67.1'RT 37.0'RT	5.0'R	Y= 305336.611 X= 153761.353
CC13	STA 497+78.99 HILL AVE	31.0' LT	17.0' R	Y= 305175.344 X= 153697.003

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - HILL AVE	SHEET 77	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\021101_ID.DWG PLOT DATE : 10/24/2016 12:59 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:30 FT_XREF
WISDOT/CADDS SHEET 42

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	STA 207+41.02 US 2 500+52.55 HILL AVE	65.7'LT 97.9'LT	7.0'R	Y= 305448.494 X= 153624.372
CC2	STA 208+02.89 US 2 500+53.91 HILL AVE	60.0'LT 40.0'LT	27.0'R	Y= 305450.451 X= 153682.227
CC3	STA 208+92.23 US 2 500+66.04 HILL AVE	55.0'LT 43.0'RT	27.0'R	Y= 305463.427 X= 153765.058
CC4	STA 501+32.48 HILL AVE	40.0'LT	27.0'R	Y= 305529.020 X= 153681.424
CC5	STA 208+31.55 US 2 STA 500+47.23 HILL AVE	48.5'LT 11.5' LT	15.0'R	Y= 305444.062 X= 153710.820
CC6	STA 208+05.84 US 2 STA 500+68.20 HILL AVE	74.0'LT 39.5'LT	15.0'R	Y= 305464.746 X= 153682.585

CURB RAMP LEGEND	
1	TYPE 1 RAMP
2	TYPE 2 RAMP
2M	TYPE 2M (MODIFIED) RAMP OPTION 1 OR 2
3	TYPE 3 RAMP
4B1	TYPE 4B1 RAMP
4B	TYPE 4B RAMP
6	TYPE 6 RAMP
7B	TYPE 7B RAMP
8	TYPE 8 RAMP

END CONSTRUCTION
STA 501+71.25
MATCH EXISTING
SAWCUT REQ'D

END CONSTRUCTION
STA 501+84.21
MATCH EXISTING
SAWCUT REQ'D

502+00

629.17
628.96
628.91
628.94
CC4
SEE DETAIL
630
SLOPE INTERCEPT (TYP)

501+00
HILL AVE

CONCRETE CURB AND GUTTER
30" TYPE D

STA 500+65.05
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

629.46
CC6
CC3
629.51
CC2
CC5
629.50
629.64
629.75
629.79
629.72
629.97
+48.92
+68.00
+04.37
5.0'
3.0'
4.5'
+70.23

630.55 TLE
630.50
630.24
630.26
630.20
630.28
630.40
CC1
630.20
630.36
630.32
630.18
630.17
630.09
630.41
630.38
CONCRETE SIDEWALK 6"
CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL

211+00
210+50
210+00
209+50
209+00
208+50
208+00
207+50
207+00
206+50
500+00

US 2 - (BELKNAP ST)

E 7TH ST

STA 208+34.03 US 2 =
STA 500+00.00 HILL AVE

STA 208+34.26 US 2 =
STA 500+00.00 HILL AVE

END PROJECT
STA 210+18.00
MATCH EXISTING
SAWCUT REQ'D

CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL
CONCRETE SIDEWALK 6"

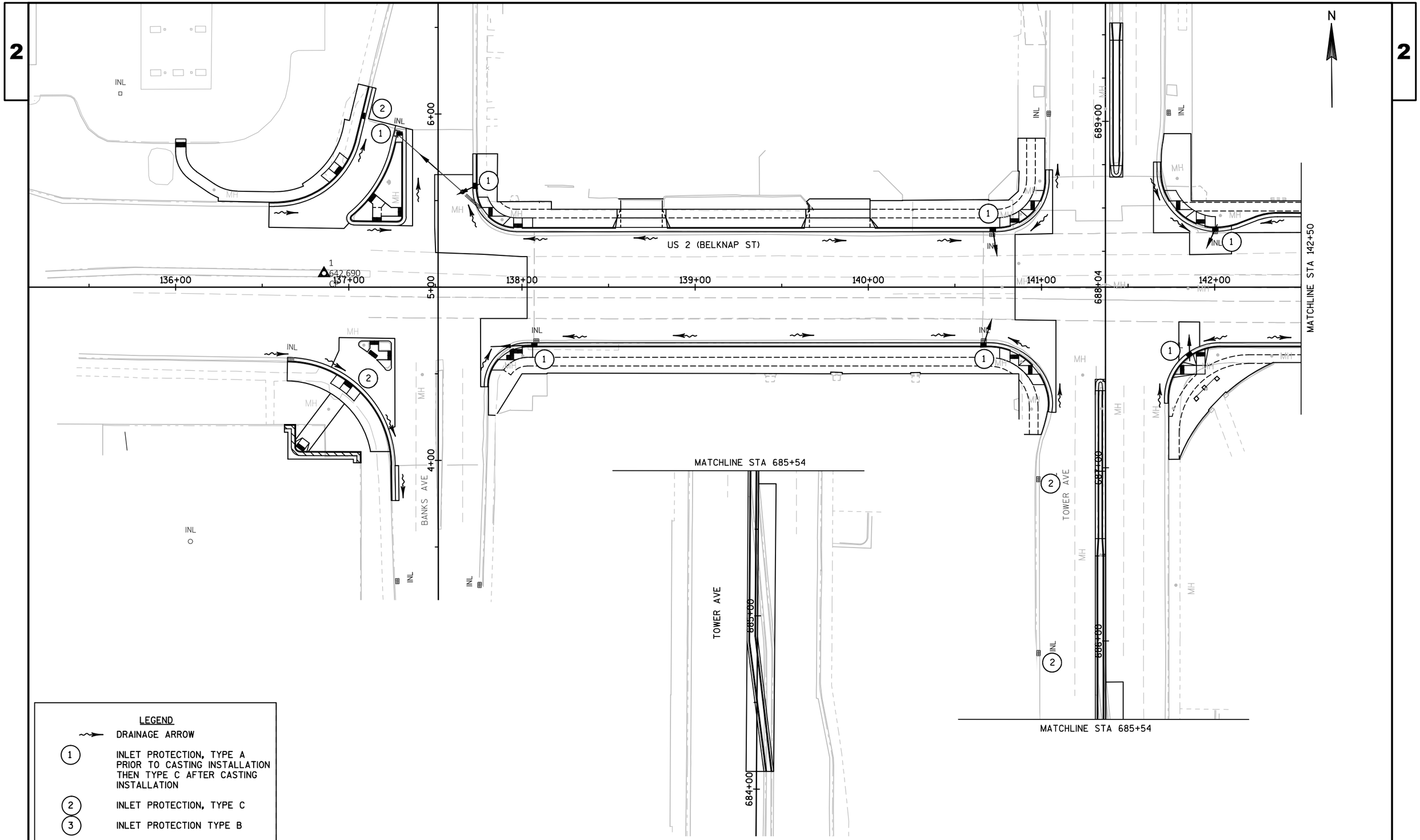
CONCRETE SIDEWALK 6"
630.51
630.64
630.57
630.71
CONCRETE CURB AND GUTTER
30" TYPE G SPECIAL (REVERSE
SLOPE GUTTER)

CONCRETE SIDEWALK 6"
CONCRETE CURB AND GUTTER
30" TYPE A SPECIAL
630.06
629.89
629.48
629.59
629.90

629.75
629.69
629.58
629.63
629.87

N

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP ST	COUNTY: DOUGLAS	INTERSECTION DETAIL - HILL AVE	SHEET 78	E



LEGEND

DRAINAGE ARROW

(1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION

(2) INLET PROTECTION, TYPE C

(3) INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 79	E

2

N

MATCHLINE STA 142+50

MATCHLINE STA 149+50

US 2 (BELKNAP ST)

OGDEN AVE

JOHN AVE

ONE-WAY

ONE-WAY

2
641.870
CP

LEGEND

DRAINAGE ARROW

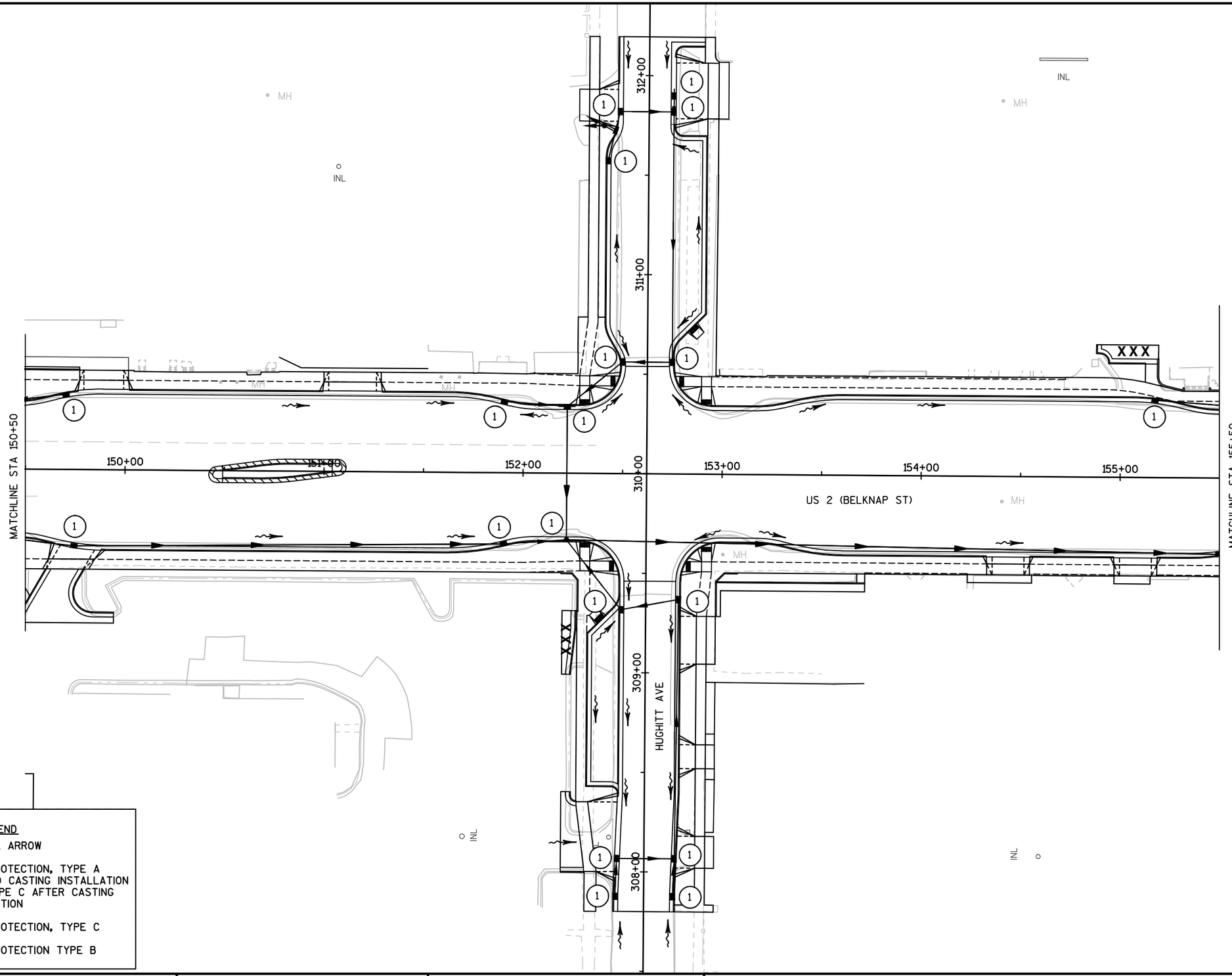
(1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION

(2) INLET PROTECTION, TYPE C

(3) INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 80	E

2



LEGEND

- DRAINAGE ARROW
- (1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION
- (2) INLET PROTECTION, TYPE C
- (3) INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 81	E

2

N

ONE-WAY

ONE-

CUMMING AVE

HAMMOND AVE

US 2 (BELKNAP ST)

MATCHLINE STA 155+50

MATCHLINE STA 163+00

332+00
331+00
330+00
329+00
328+00
342+00
341+00
340+00
339+00
338+00

156+00
157+00
158+00
159+00
160+00
161+00
162+00
163+

3
640.180
CP

INL
MH
HW

LEGEND

DRAINAGE ARROW

(1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION

(2) INLET PROTECTION, TYPE C

(3) INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022001_EC.DWG PLOT DATE : 10/20/2016 11:36 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

MATCHLINE STA 163+00

MATCHLINE STA 170+50

352+00

351+00

350+50

349+00

348+00

372+00

371+00

370+00

359+00

358+00

100+00

101+00

164+00

165+00

166+00

167+00

168+00

169+00

170+00

ONE-WAY

ONE-WAY

GRAND AVE

BAXTER AVE

LAMBORN AVE

INL

MH

XXX

LEGEND

DRAINAGE ARROW

(1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION

(2) INLET PROTECTION, TYPE C

(3) INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 83	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022001_EC.DWG PLOT DATE : 10/20/2016 11:37 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

382+00

381+00

380+00

390+00

389+00

388+00

WEEKS AVE

CLOUGH AVE

USH 2

MATCHLINE STA 170+50

MATCHLINE STA 177+50

171+00

172+00

173+00

174+00

175+00

176+00

177+00

INL

MH

1

LEGEND

DRAINAGE ARROW

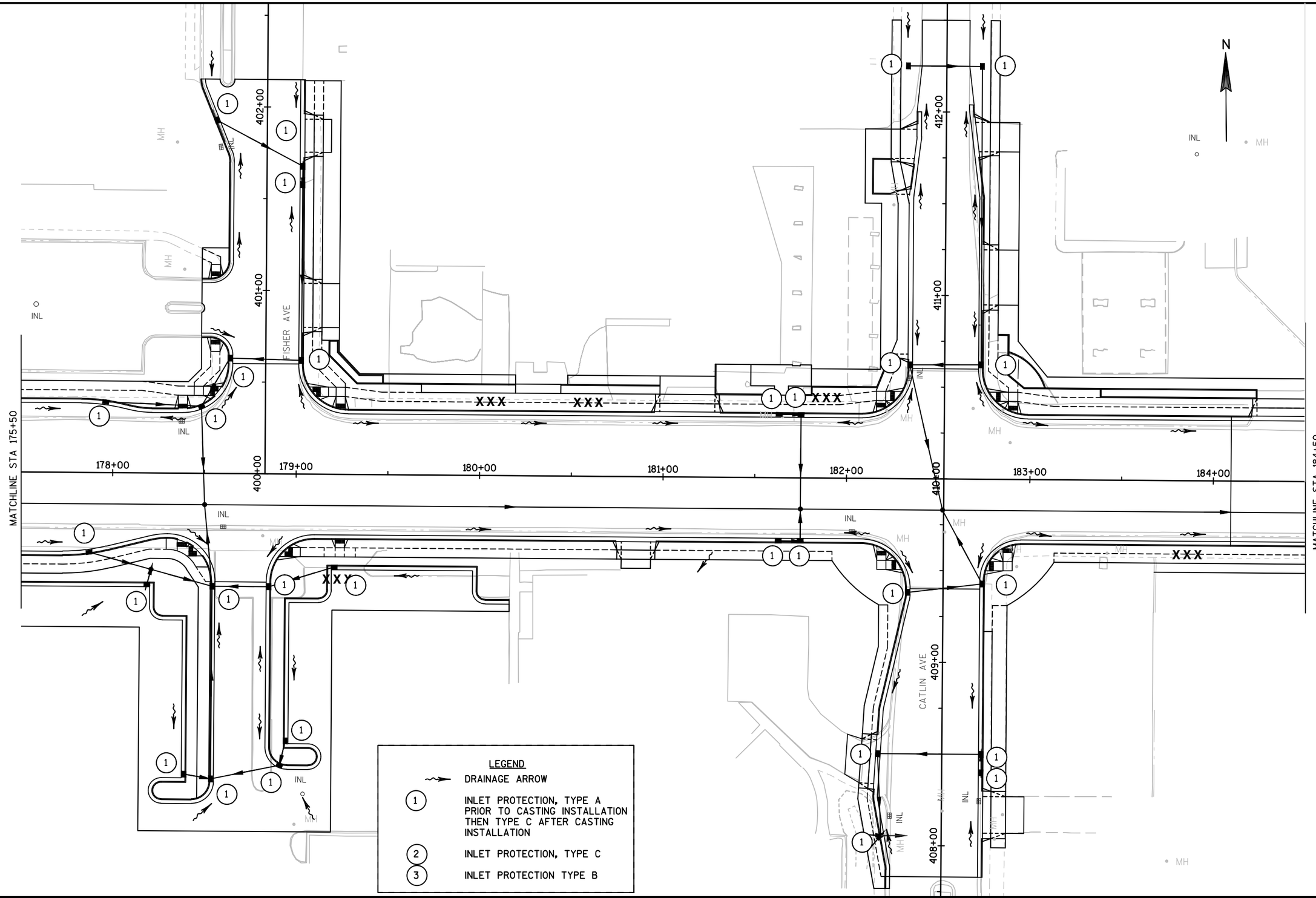
1 INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION

2 INLET PROTECTION, TYPE C

3 INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 84	E

2



PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022001_EC.DWG PLOT DATE : 10/20/2016 11:37 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

MATCHLINE STA 184+50

185+00

186+00

187+00

188+00

189+00

190+00

MATCHLINE STA 191+00

420+00

421+00

422+00

430+00

431+00

432+00

439+00

440+00

438+00

BIRCH AVE

CYPRESS AVE

MORTORELLI DRIVE

INL

MH

SS

XXX

6
629.940
CP

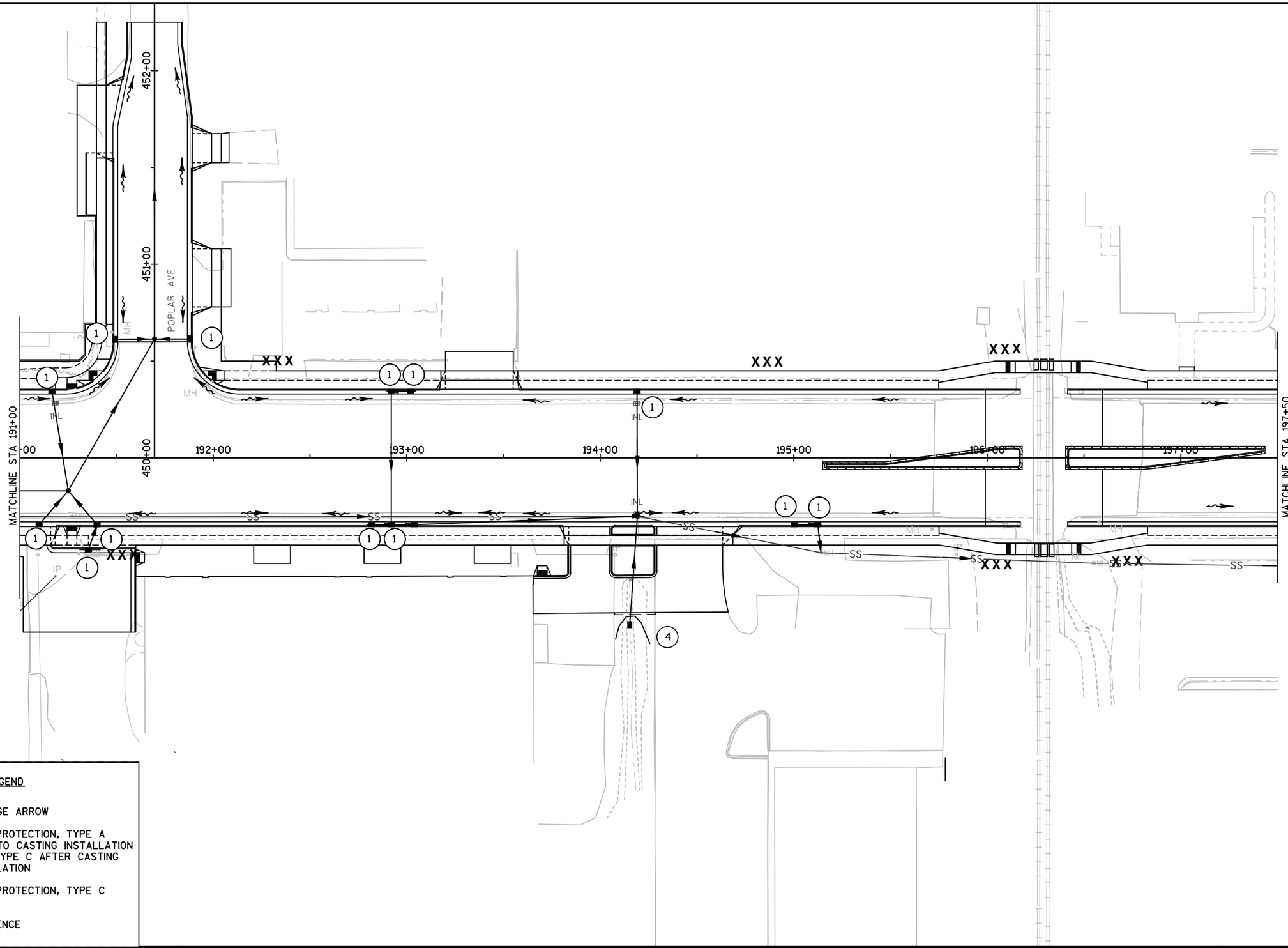
LEGEND

~~→	DRAINAGE ARROW
1	INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION
2	INLET PROTECTION, TYPE C
4	SILT FENCE

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 86	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022001_EC.DWG PLOT DATE : 10/20/2016 11:38 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1:50_XREF

2



LEGEND

- DRAINAGE ARROW
- (1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION
- (2) INLET PROTECTION, TYPE C
- (4) SILT FENCE

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 87	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022001_EC.DWG PLOT DATE : 10/20/2016 11:38 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

MATCHLINE STA 197+50

MATCHLINE STA 204+00

198+00 199+00 200+00 201+00 202+00 203+00 204

460+00 461+00 470+00 471+00

PINE AVE

ELM AVE

A HAYES CT

ONE-WAY

628.130
CP

INL

MH

SS

XXX

469+00 468+00 +00

LEGEND

~~→	DRAINAGE ARROW
1	INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION
2	INLET PROTECTION, TYPE C
3	INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 88	E

2

N

MATCHLINE STA 205+50

MATCHLINE STA 204+00

CEDAR AVE

A HAYES CT

HILL AVE

ONE-WAY

EP: 510+00.00

BP: 509+27.52

530.950
CP

MH

INL

LEGEND

DRAINAGE ARROW

(1) INLET PROTECTION, TYPE A PRIOR TO CASTING INSTALLATION THEN TYPE C AFTER CASTING INSTALLATION

(2) INLET PROTECTION, TYPE C

(3) INLET PROTECTION TYPE B

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	EROSION CONTROL	SHEET 89	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022001_EC.DWG PLOT DATE : 10/20/2016 11:39 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1:50_XREF

2

N

STA 137+09, 99.4' LT
ADJUSTING INLET COVERS

60 STA 137+27, 88.8' LT
RECONSTRUCTING INLETS

DURING EXISTING INLET REMOVAL AND INL 60 INSTALLATION PIPE AND COLLARS MAY BE REQ'D
2-EACH CULVERT PIPE CONCRETE COLLAR
5LF- 15" SSPRC CL IV
5LF- 12: SSPRC CL IV
RECONNECT UNDERDRAIN
(INCIDENTAL TO STRUCTURE 60)

STA 137+29.20, 88.3' LT
REMOVING INLETS

EXISTING STORM SEWER TO REMAIN

61 STA 137+66, 55.0' LT
MANHOLES 4-J

61A STA 137+73, 58.5' LT
INLETS 2x3-H

STA 137+76.13, 43.6' LT
REMOVING INLETS

EX61

61A

REMOVING STORM SEWER 12-INCH

MATCHLINE STA 134+00.00

MATCHLINE STA 139+00.00

1
642.690
CP

136+00

137+00

138+00

US 2 BELKNAP ST

STA 136+66.70, 41.7' RT
ADJUSTING INLET COVERS

STA 136+88.40, 70.6' RT
ADJUSTING MANHOLE COVERS

62 STA 138+08, 31.2' RT
REMOVING INLETS

62 STA 138+07, 33.5' RT
INLETS 2x3-H-S

REMOVING STORM SEWER 15-INCH

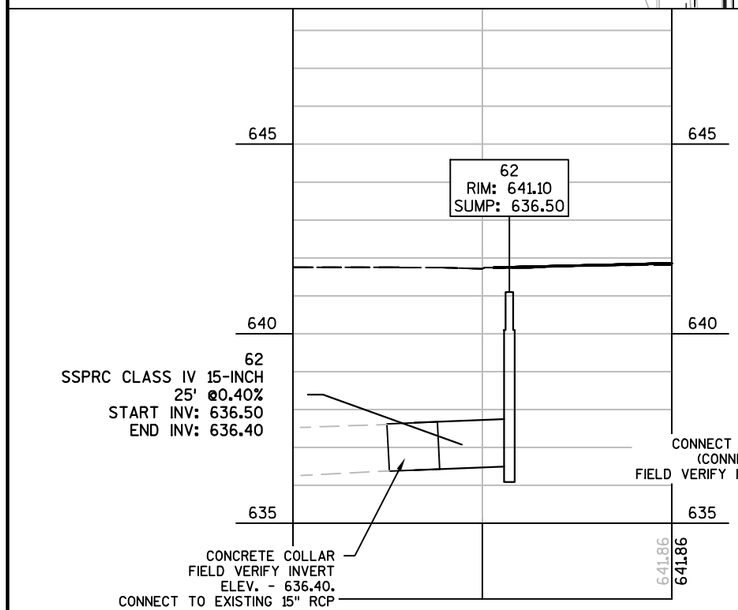
EXISTING STORM SEWER TO REMAIN

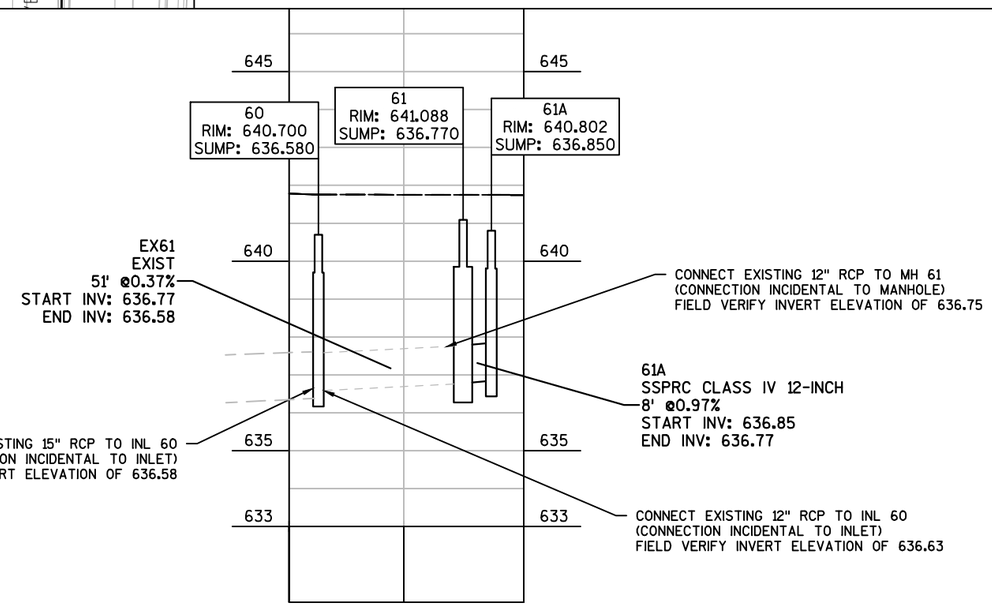
BANKS AVE

6+00

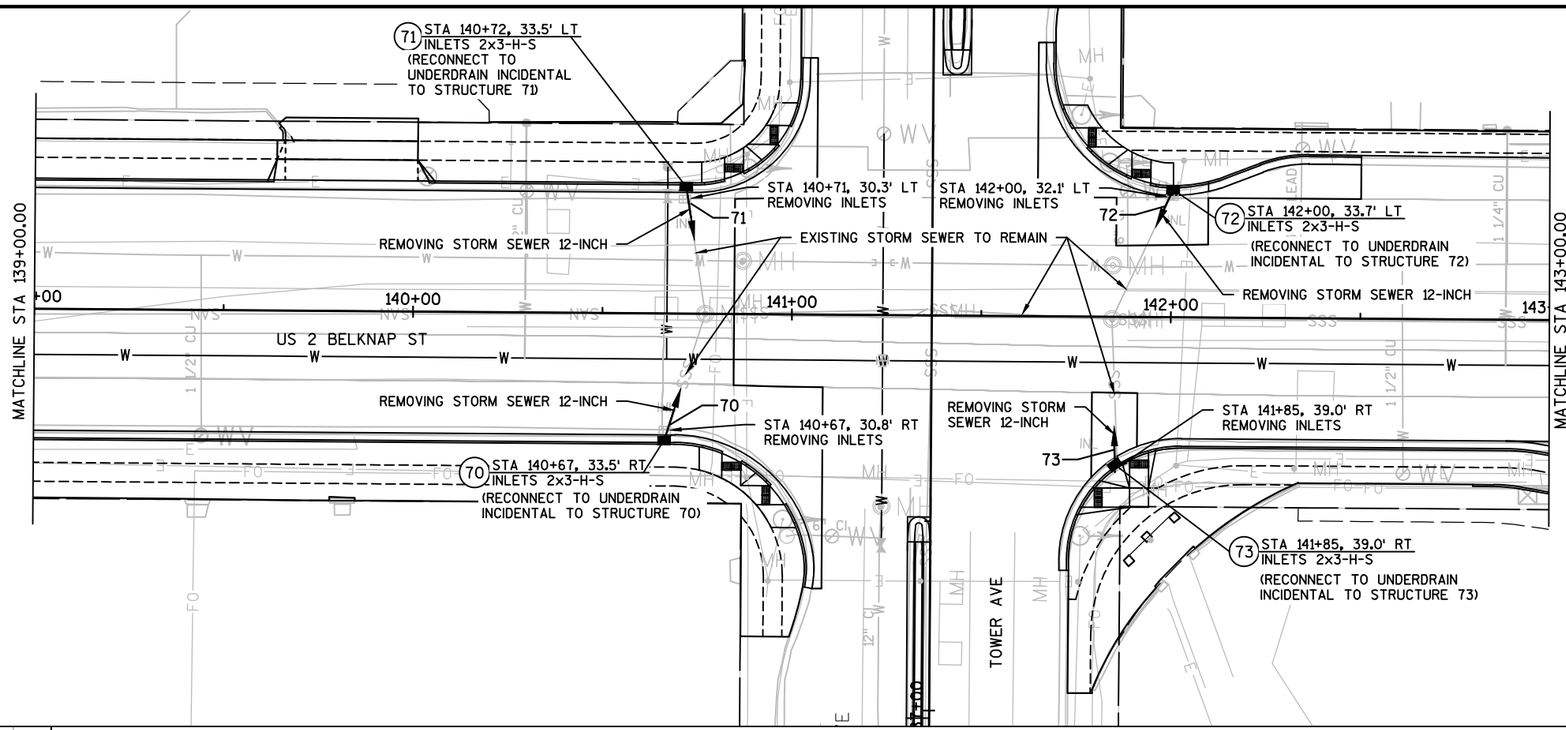
5+50

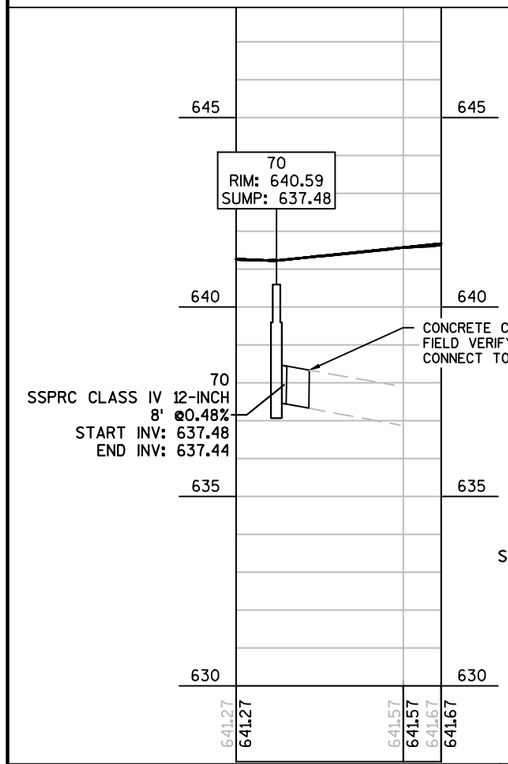
4+00

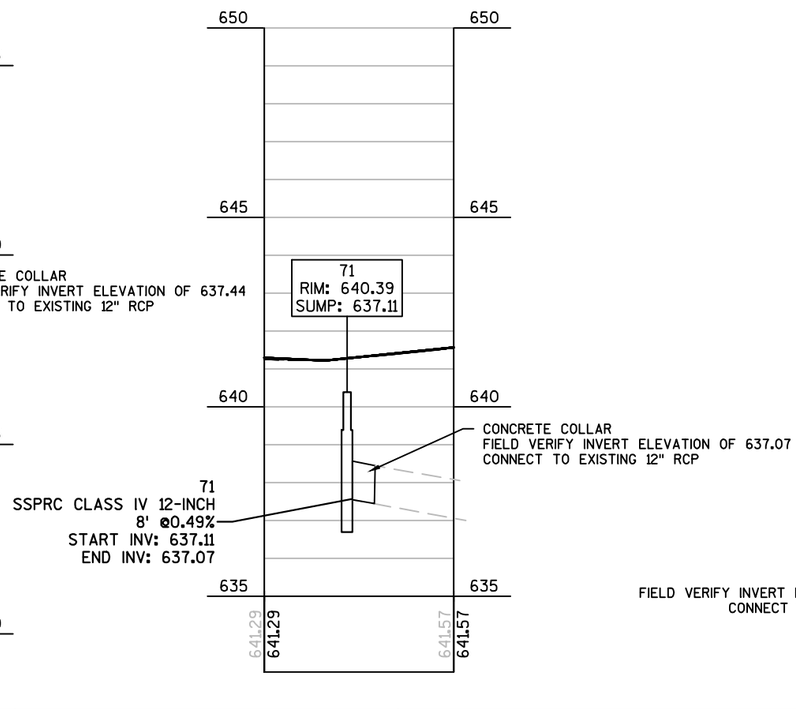


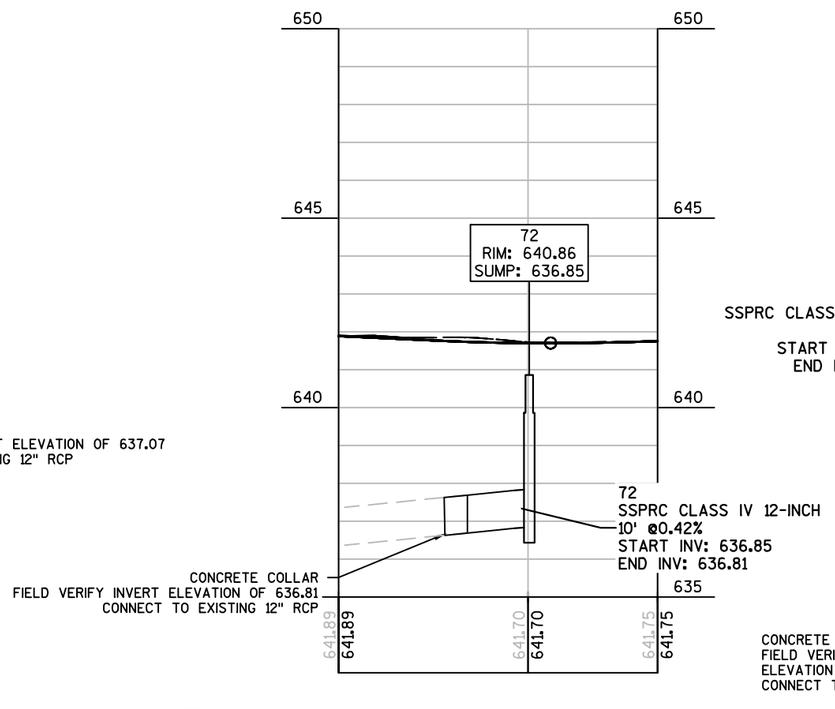


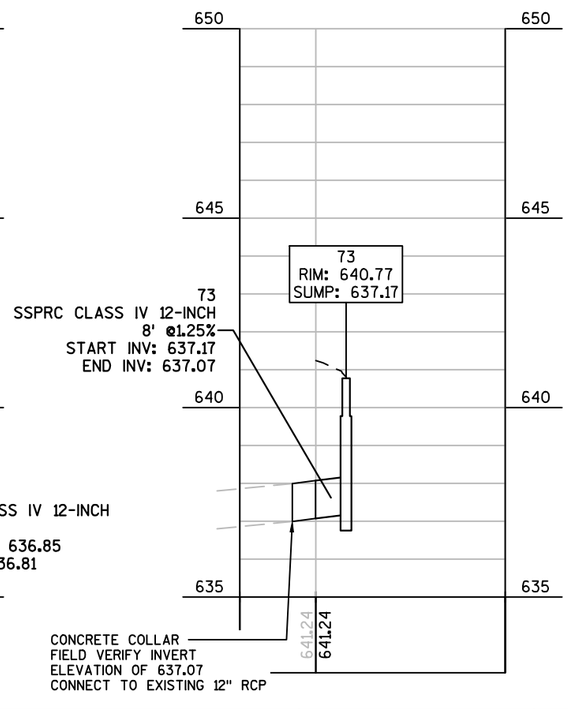
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 90	E











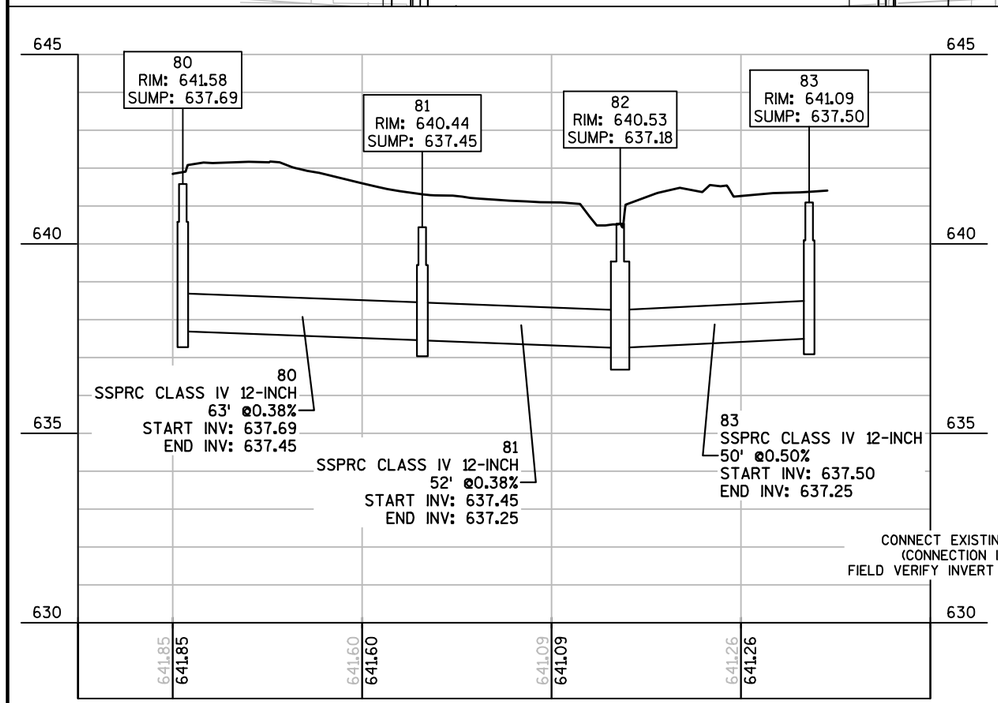
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 91	E

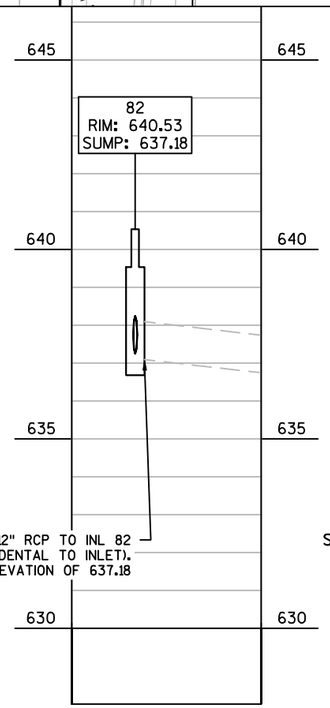
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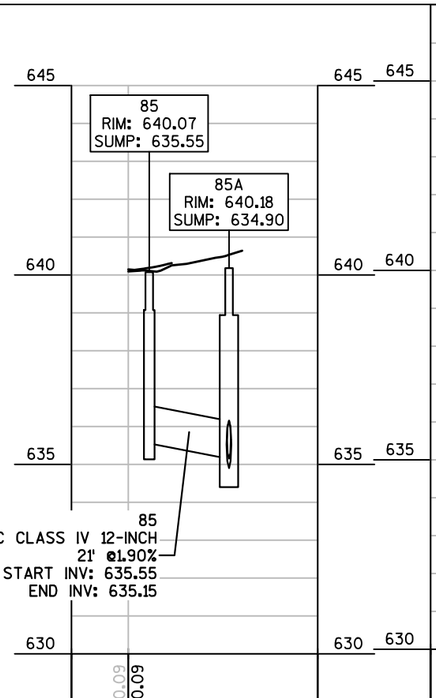
REMOVING INLETS
REMOVING STORM SEWER
REMOVING INLETS
85 STA 145+44, 54.8' LT
INLETS 2x3-H-S
(RECONNECT TO UNDERDRAIN
INCIDENTAL TO STRUCTURE 85)
85A STA 145+44, 33.8' LT
MANHOLES 4-J
100+50
STA 144+53, 38.5' LT
INLETS 2x3-H
86
REMOVING INLETS
(RECONNECT TO UNDERDRAIN
INCIDENTAL TO STRUCTURE 86)
86B
STA 144+93, 40.9' LT
INLETS 2x3-H-S
84
(RECONNECT TO UNDERDRAIN
INCIDENTAL TO STRUCTURE 84)
EXISTING STORM
SEWER TO REMAIN
STA 145+75, 33.7' LT
INLETS 4-H-S
87
REMOVING INLETS
(RECONNECT TO UNDERDRAIN
INCIDENTAL TO STRUCTURE 87)
STA 145+75.00, 0.9' RT
SEALING PIPES
AT EXISTING MANHOLE
US 2 BELKNAP ST
MATCHLINE STA 143+00.00
+00
144+00
145+00
146+00
147+00
148
MATCHLINE STA 148+00.00
STA 144+67, 33.3' RT
INLETS 4-H-S
82
EXISTING STORM
SEWER TO REMAIN
(RECONNECT TO
UNDERDRAIN INCIDENTAL
TO STRUCTURE 82)
STA 144+15, 40.5' RT
INLETS 2x3-H-S
81
REMOVING INLETS
88
EXISTING 12" COMBINED STORM & SANITARY PIPE
TO BE ABANDONED IN PLACE FILL PIPE WITH
FLOWABLE FILL.
641.870
CP
XXX
80
81
83
80 STA 143+56, 61.0' RT
INLETS 2x3-H-S
88 STA 145+75, 33.5' RT
INLETS 2x3-H-S
REMOVING INLETS
(RECONNECT TO UNDERDRAIN
INCIDENTAL TO STRUCTURE 88)
STA 144+67, 83.2' RT
INLETS 2x3-H-S
83
OGDEN AVE
99+00
N

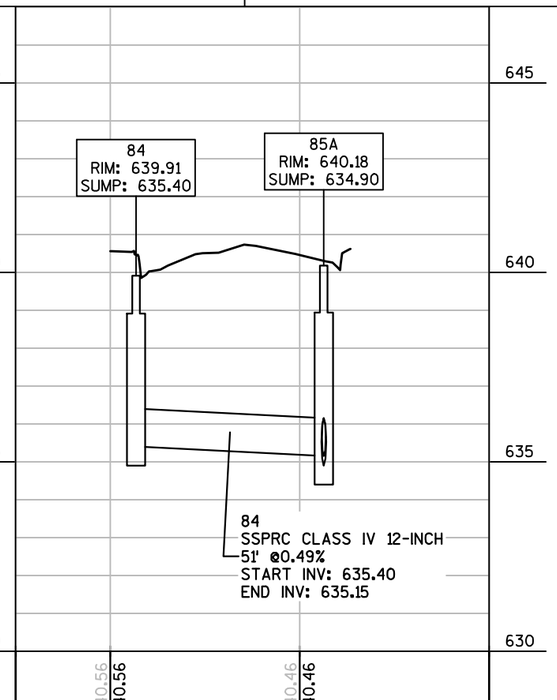
LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

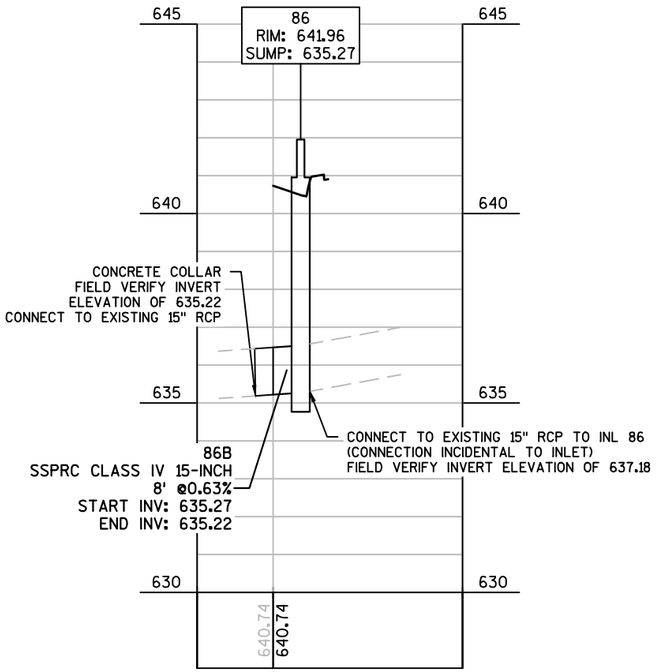


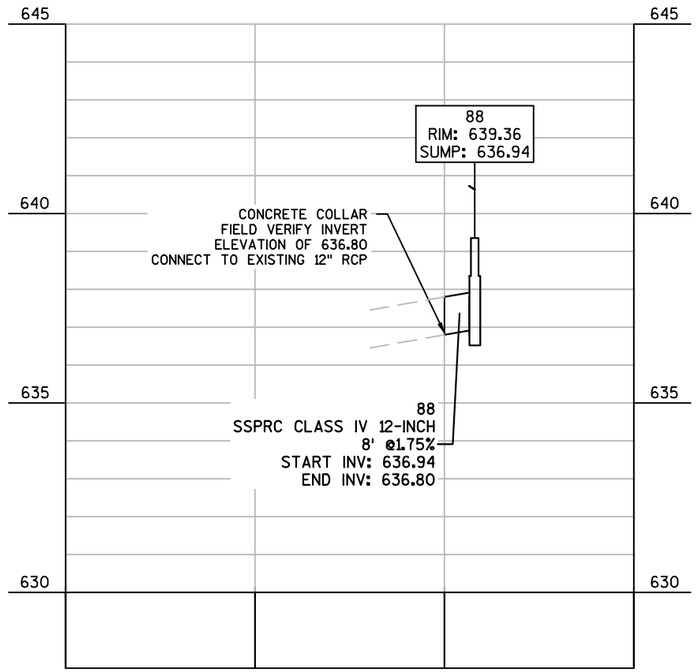


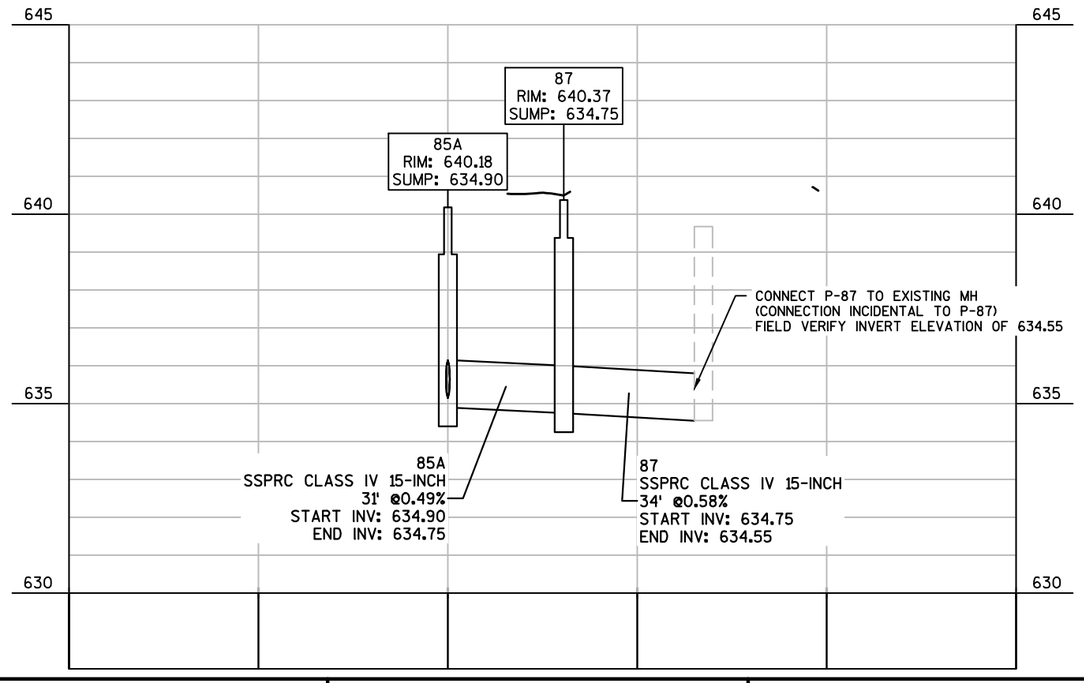




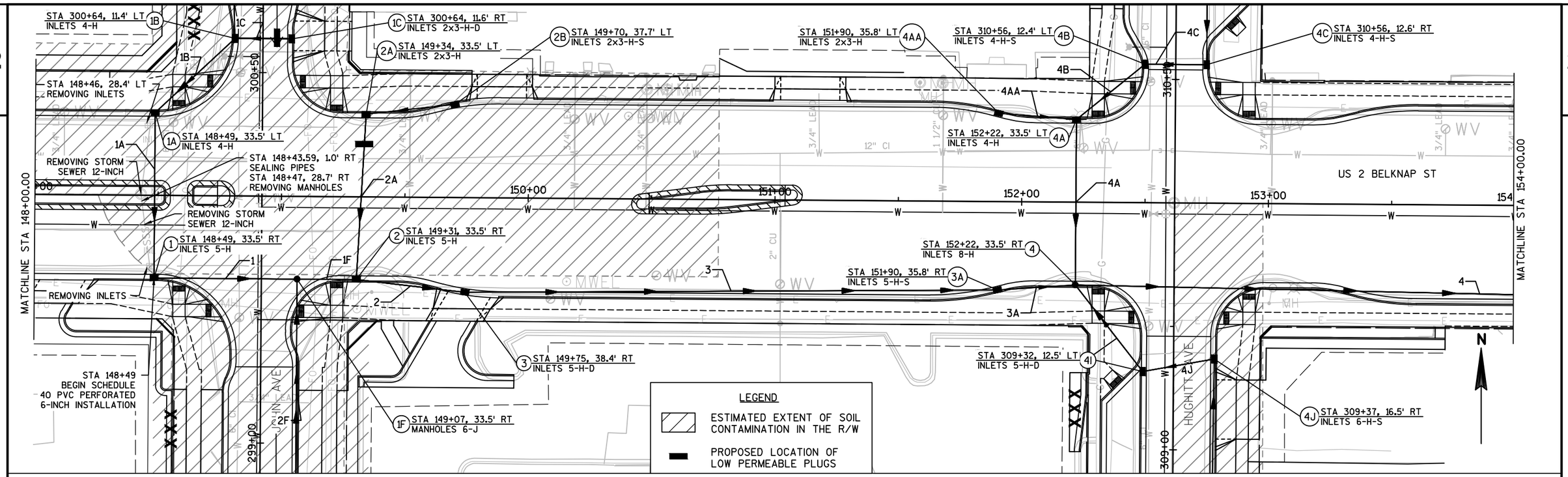
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 92	E

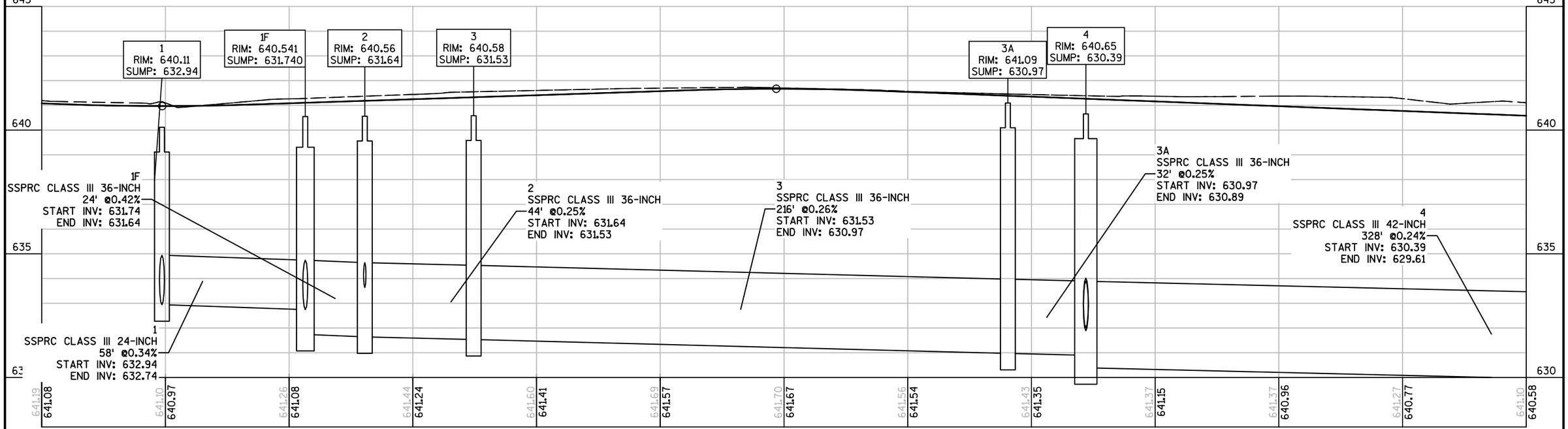




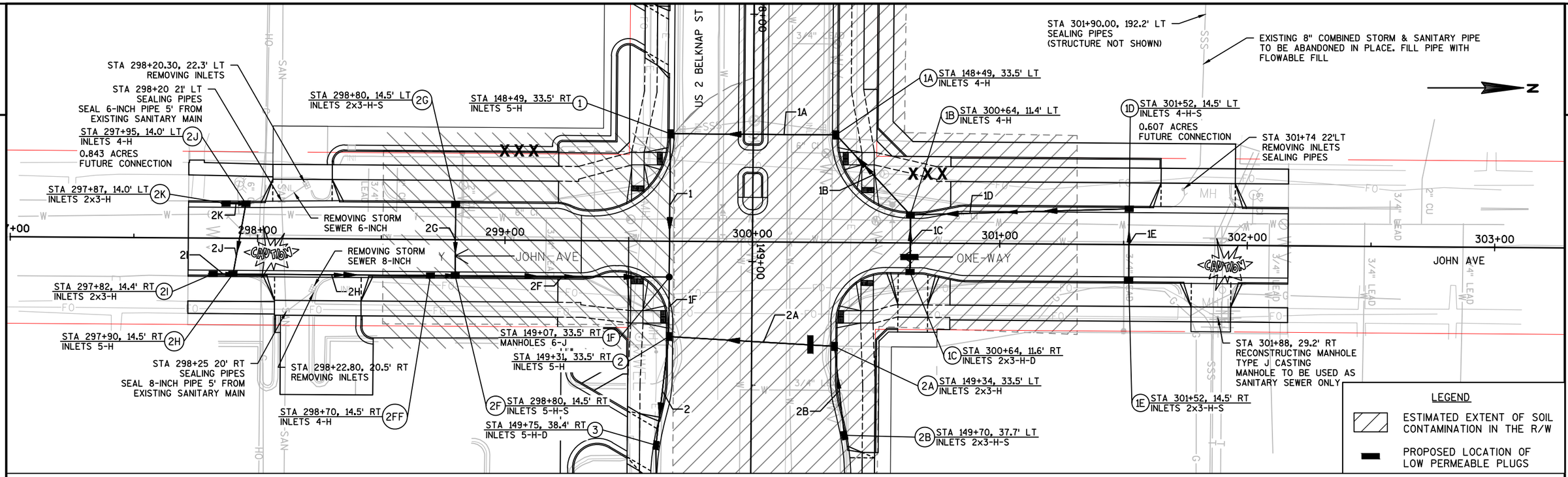


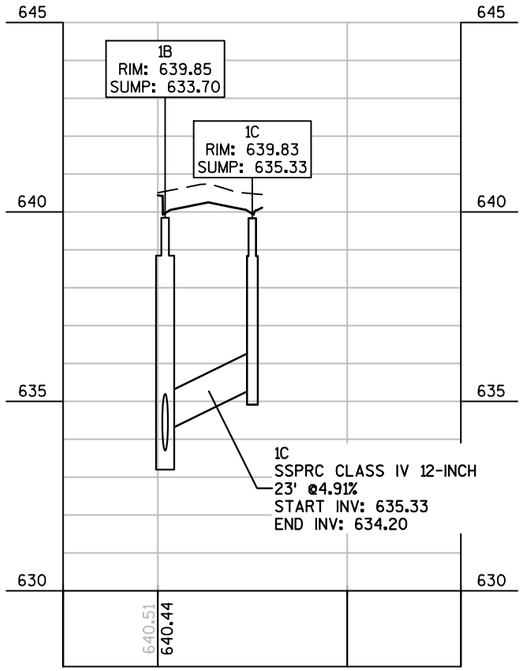
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 93	E

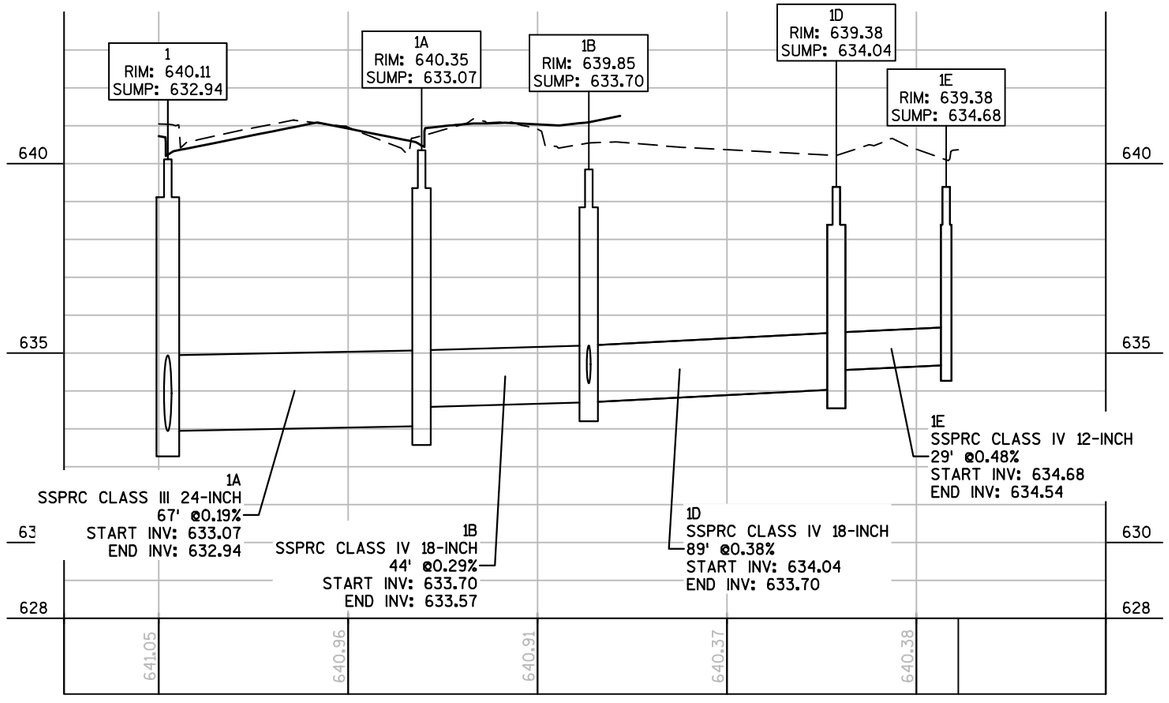




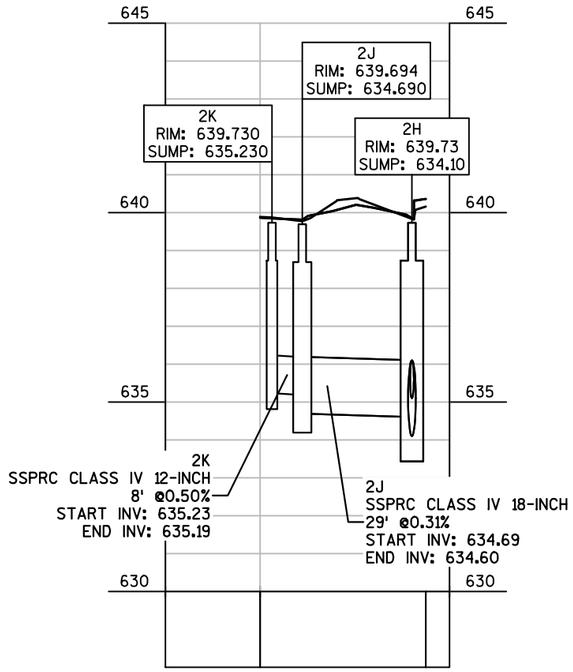
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 94	E

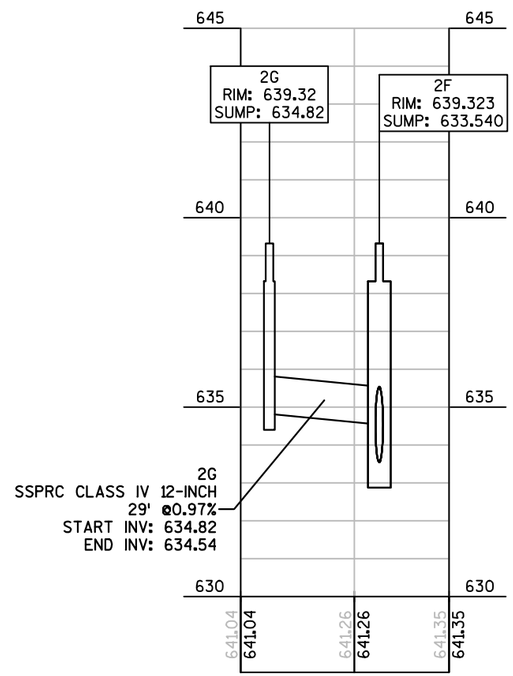


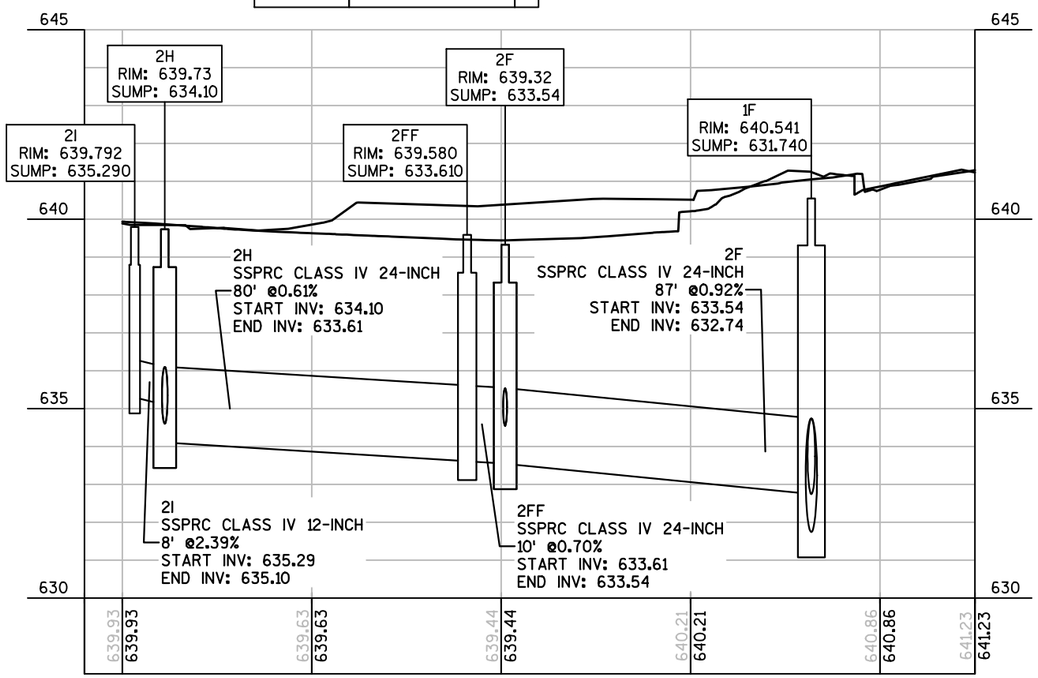


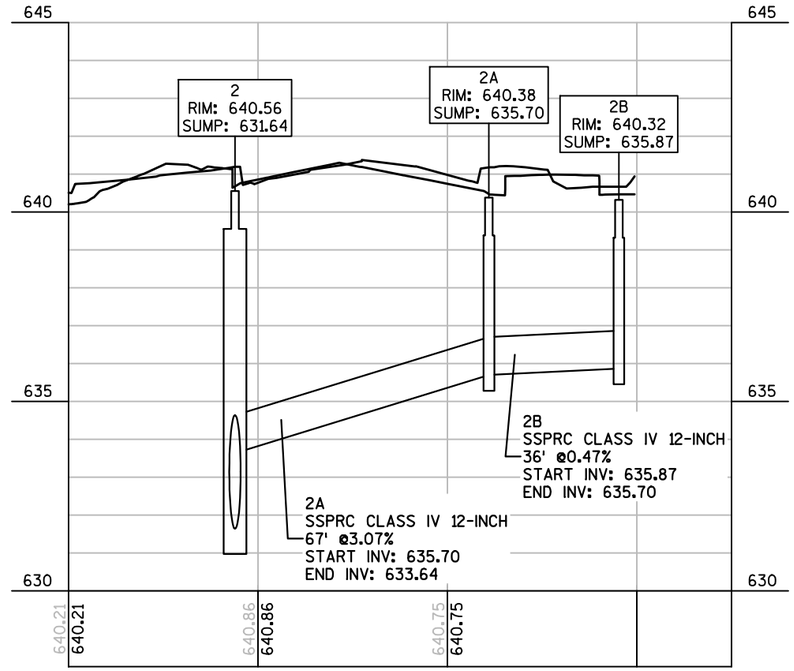


PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 95	E


645
640
635
630
2J
RIM: 639.694
SUMP: 634.690
2K
RIM: 639.730
SUMP: 635.230
2H
RIM: 639.73
SUMP: 634.10
2K
SSPRC CLASS IV 12-INCH
8' @0.50%
START INV: 635.23
END INV: 635.19
2J
SSPRC CLASS IV 18-INCH
29' @0.31%
START INV: 634.69
END INV: 634.60


645
640
635
630
2G
RIM: 639.32
SUMP: 634.82
2F
RIM: 639.323
SUMP: 633.540
2G
SSPRC CLASS IV 12-INCH
29' @0.97%
START INV: 634.82
END INV: 634.54
641.04
641.26
641.35


645
640
635
630
2H
RIM: 639.73
SUMP: 634.10
2I
RIM: 639.792
SUMP: 635.290
2FF
RIM: 639.580
SUMP: 633.610
2F
RIM: 639.32
SUMP: 633.54
1F
RIM: 640.541
SUMP: 631.740
2H
SSPRC CLASS IV 24-INCH
80' @0.61%
START INV: 634.10
END INV: 633.61
2F
SSPRC CLASS IV 24-INCH
87' @0.92%
START INV: 633.54
END INV: 632.74
2I
SSPRC CLASS IV 12-INCH
8' @2.39%
START INV: 635.29
END INV: 635.10
2FF
SSPRC CLASS IV 24-INCH
10' @0.70%
START INV: 633.61
END INV: 633.54
639.93
639.63
639.44
640.21
640.86
641.23


645
640
635
630
2
RIM: 640.56
SUMP: 631.64
2A
RIM: 640.38
SUMP: 635.70
2B
RIM: 640.32
SUMP: 635.87
2B
SSPRC CLASS IV 12-INCH
36' @0.47%
START INV: 635.87
END INV: 635.70
2A
SSPRC CLASS IV 12-INCH
67' @3.07%
START INV: 635.70
END INV: 633.64
640.21
640.86
640.75

2

STA 308+22 20' LT
REMOVING INLETS
SEALING PIPES
SEAL 8-INCH PIPE 5' FROM
EXISTING SANITARY MAIN TO
AVOID DAMAGE TO BRICK PIPE

STA 307+88, 14.5' LT
INLETS 2x3-H (4M)

STA 152+22, 33.5' RT
INLETS 8-H (4)

STA 309+32, 12.5' LT
INLETS 5-H-D (4I)

REMOVING STORM SEWER 8-INCH

STA 308+07, 13.8' LT
INLETS 4-H-D (4L)
0.625 ACRES
FUTURE CONNECTION

STA 307+88, 14.5' RT
INLETS 2x3-H (4N)

STA 308+07, 15.2' RT
INLETS 4-H-D (4K)

REMOVING STORM SEWER 6-INCH

STA 308+20 22' RT
REMOVING INLETS
SEALING PIPES
SEAL 6-INCH PIPE 5' FROM
EXISTING SANITARY MAIN TO
AVOID DAMAGE TO BRICK PIPE

STA 309+37, 16.5' RT
INLETS 6-H-S (4J)

US 2 BELKNAP ST

HUGHITT AVE

STA 151+90, 35.8' LT
INLETS 2x3-H (4AA)

STA 152+22, 33.5' LT
INLETS 4-H (4A)

STA 311+75, 22.5' LT
MANHOLES 4-J (4P)
REMOVING INLETS
MANHOLE FOR
COMBINED SEWER

STA 311+57, 20.5' LT
INLETS 2x3-H (4G)

STA 311+82, 14.5' LT
INLETS 4-H-D (4F)
0.950 ACRES
FUTURE CONNECTION

STA 310+56, 12.4' LT
INLETS 4-H-S (4B)

STA 310+56, 12.6' RT
INLETS 4-H-S (4C)

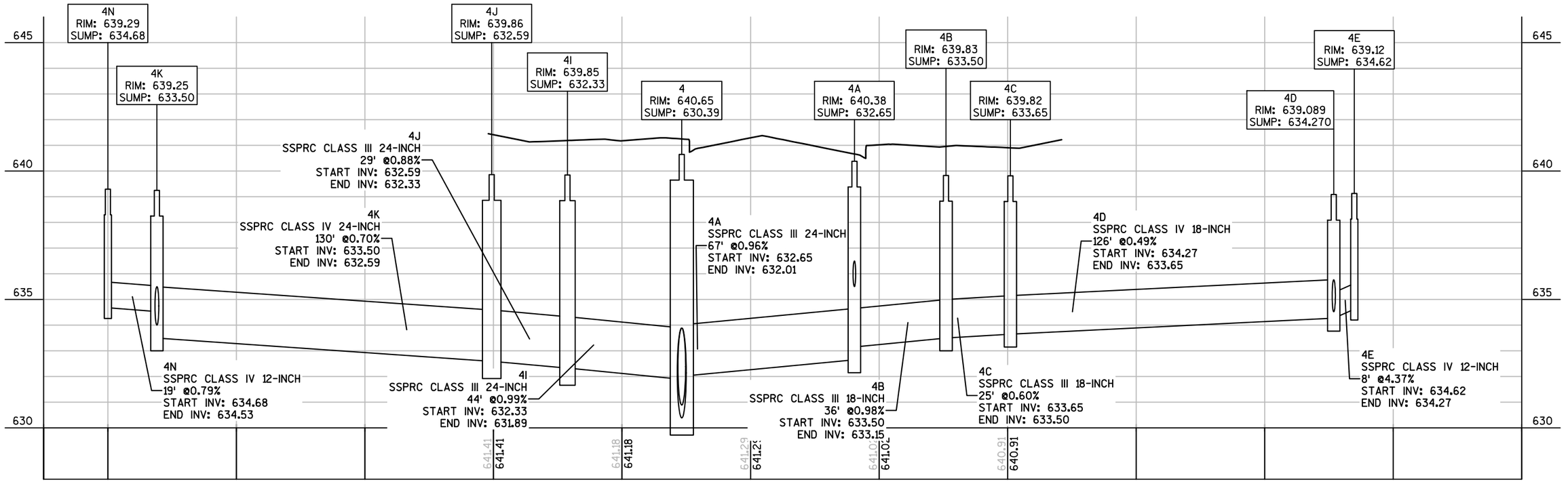
STA 311+77 22' RT
RECONSTRUCTING MANHOLES
TYPE J CASTING
MANHOLE TO BE USED AS
SANITARY SEWER ONLY

STA 311+82, 12.5' RT
INLETS 4-H-D (4D)

STA 311+90, 12.5' RT
INLETS 2x3-H-D (4E)

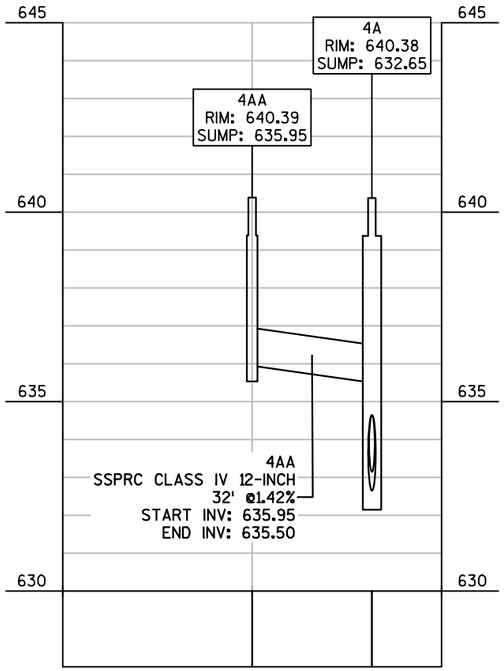
LEGEND

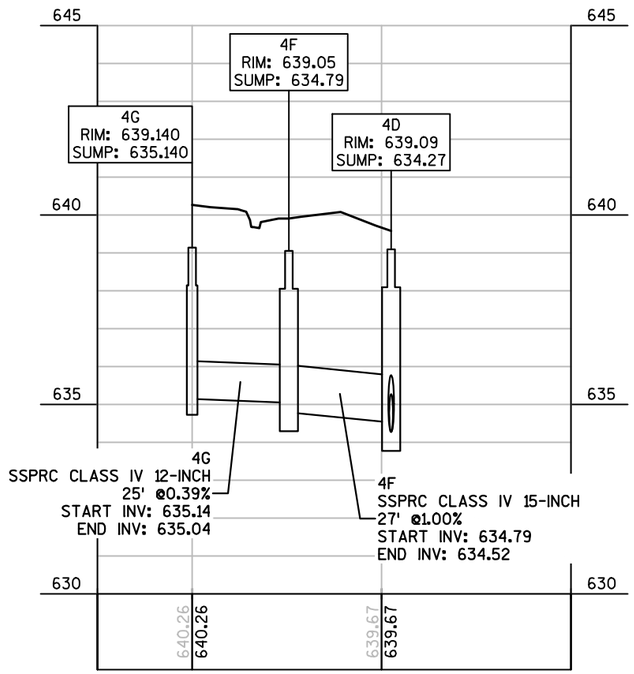
ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

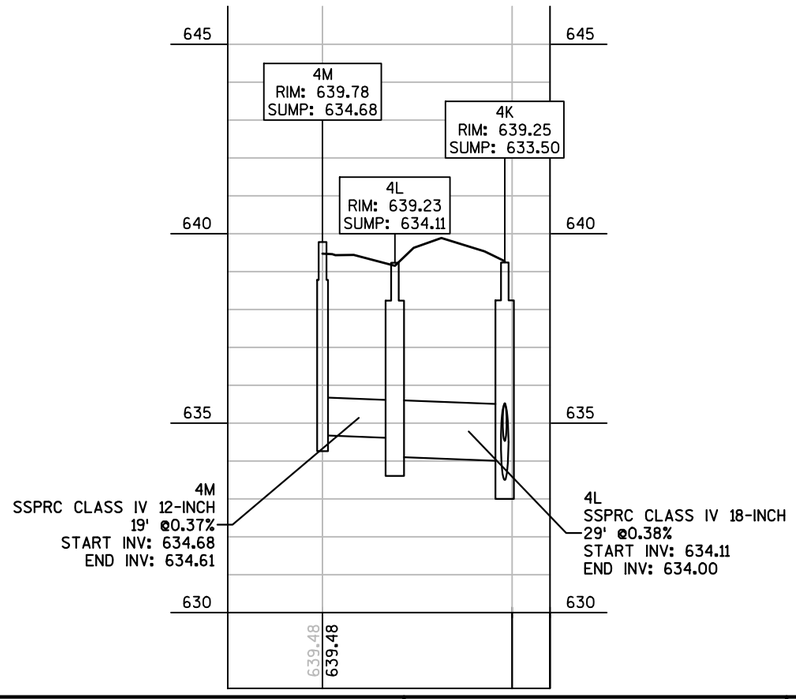


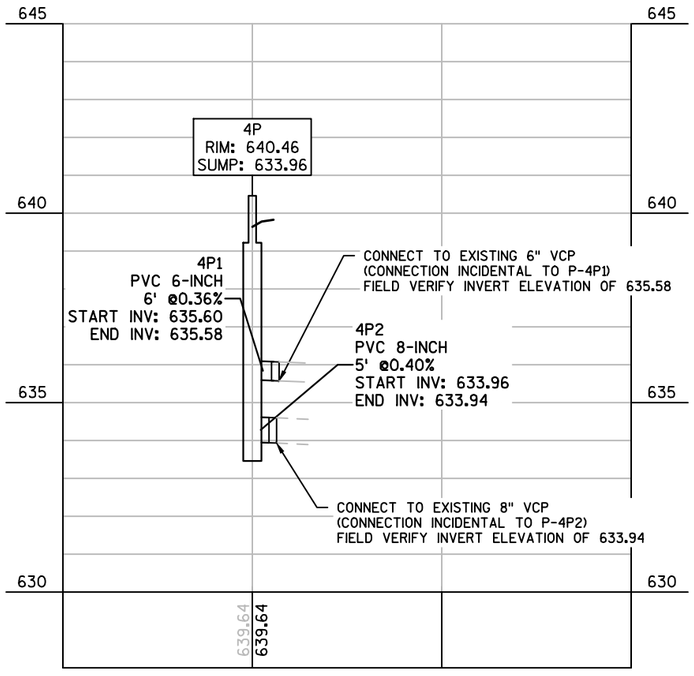
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 97	E

FILE NAME : O:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022514_SS.DWG
LAYOUT NAME - 022507_SS
PLOT DATE : 10/19/2016 2:43 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41


645
640
635
630
4A
RIM: 640.38
SUMP: 632.65
4AA
RIM: 640.39
SUMP: 635.95
4AA
SSPRC CLASS IV 12-INCH
32' @1.42%
START INV: 635.95
END INV: 635.50


645
640
635
630
4F
RIM: 639.05
SUMP: 634.79
4G
RIM: 639.140
SUMP: 635.140
4D
RIM: 639.09
SUMP: 634.27
4G
SSPRC CLASS IV 12-INCH
25' @0.39%
START INV: 635.14
END INV: 635.04
4F
SSPRC CLASS IV 15-INCH
27' @1.00%
START INV: 634.79
END INV: 634.52
640.26
640.26
639.67
639.67


645
640
635
630
4M
RIM: 639.78
SUMP: 634.68
4K
RIM: 639.25
SUMP: 633.50
4L
RIM: 639.23
SUMP: 634.11
4M
SSPRC CLASS IV 12-INCH
19' @0.37%
START INV: 634.68
END INV: 634.61
4L
SSPRC CLASS IV 18-INCH
29' @0.38%
START INV: 634.11
END INV: 634.00
639.48
639.48


645
640
635
630
4P
RIM: 640.46
SUMP: 633.96
4P1
PVC 6-INCH
6' @0.36%
START INV: 635.60
END INV: 635.58
CONNECT TO EXISTING 6" VCP
(CONNECTION INCIDENTAL TO P-4P1)
FIELD VERIFY INVERT ELEVATION OF 635.58
4P2
PVC 8-INCH
5' @0.40%
START INV: 633.96
END INV: 633.94
CONNECT TO EXISTING 8" VCP
(CONNECTION INCIDENTAL TO P-4P2)
FIELD VERIFY INVERT ELEVATION OF 633.94
639.64
639.64

2

N

MATCHLINE STA 154+00.00

MATCHLINE STA 159+00.00

HAMMOND AVE

US 2 BELKNAP ST

STA 330+80, 35.5' LT
INLETS 2x3-H (8D)

STA 155+17, 38.8' LT
INLETS 2x3-H-S (6B)

STA 155+92, 33.5' LT
INLETS 2x3-H (6A)

STA 330+82, 30.1' RT
INLETS 2x3-H (8C)

STA 330+55, 24.8' RT
INLETS 4-H-S (8B)

STA 156+81, 39.0' LT
INLETS 4-H-S (8A)

STA 155+92, 33.5' RT
INLETS 6-H (6)

STA 156+13, 39.5' RT
INLETS 7-H (7)

STA 156+85, 40.7' RT
INLETS 7-H (8)

STA 158+40, 39.5' RT
INLETS 7-H-D (9A)

STA 155+50, 38.3' RT
INLETS 6-H (5)

STA 329+42, 27.9' LT
INLETS 4-H-S (7A)

STA 329+39, 30.1' RT
INLETS 2x3-H (8G)

STA 157+48, 55.0' RT
INLETS 2x3-H-S (8GG)

STA 158+40, 49.7' RT
ROOF DRAIN (9AA)

CAUTION

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

5	6	7	8	9A
RIM: 639.245	RIM: 639.227	RIM: 638.97	RIM: 638.75	RIM: 637.95
SUMP: 629.610	SUMP: 629.510	SUMP: 628.96	SUMP: 628.79	SUMP: 628.42

4
SSPRC CLASS III 42-INCH
328' @0.24%
START INV: 630.39
END INV: 629.61

5
SSPRC CLASS III 42-INCH
42' @0.24%
START INV: 629.61
END INV: 629.51

6
SSPRC CLASS III 42-INCH
22' @0.23%
START INV: 629.51
END INV: 629.46

EXISTING 12"
DUCTILE IRON
GAS MAIN

7
SSPRC CLASS III 48-INCH
72' @0.24%
START INV: 628.96
END INV: 628.79

8
SSPRC CLASS III 48-INCH
155' @0.24%
START INV: 628.79
END INV: 628.42

9A
SSPRC CLASS III 48-INCH
92' @0.25%
START INV: 628.42
END INV: 628.19

640 635 630 625

641.10 640.58 640.76 640.38 640.41 640.19 640.17 640.00 639.94 639.81 639.78 639.62 639.52 639.44 639.21 639.26 638.98 639.07 638.89 638.89 638.71 638.71

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 99	E

FILE NAME : O:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022508-SS

PLOT DATE : 10/19/2016 2:44 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

REMOVING STORM SEWER 15-INCH

STA 327+86, 32.3' LT
INLETS 2x3-H
(RECONNECT TO UNDERDRAIN INCIDENTAL TO STRUCTURE 7C)

7C

7B STA 327+95, 32.5' LT
INLETS 4-H-S
0.927 ACRES
FUTURE CONNECTION

STA 155+92, 33.5' RT
INLETS 6-H

6

STA 156+13, 39.5' RT
INLETS 7-H

7

6B STA 155+17, 38.8' LT
INLETS 2x3-H-S
(NOT SHOWN)

US 2 BELKNAP ST

6A STA 155+92, 33.5' LT
INLETS 2x3-H

8D STA 330+80, 35.5' LT
INLETS 2x3-H

EXISTING 12" STORM PIPE
TO BE ABANDONING IN PLACE. FILL
PIPE WITH FLOWABLE FILL

EXISTING 15" STORM SEWER PIPE
TO BE ABANDONED IN PLACE.
FILL PIPE WITH FLOWABLE FILL

7A

STA 330+90 35.8' LT
SEALING PIPES

STA 331+84 35' LT
SEALING PIPES

STA 327+59, 0.5' RT
SEALING PIPE

STA 327+94, 33' LT
REMOVING INLETS

STA 329+42, 27.9' LT
INLETS 4-H-S

7B

EXISTING 12" DUCTILE
IRON GAS MAIN

STA 330+82 36' LT
REMOVING INLETS
RECONNECT UNDERDRAIN
(INCIDENTAL TO STRUCTURE 8D)

8D

327+00

328+00

329+00

330+00

331+00

332+00

CAUTION

7D

REMOVING STORM SEWER 12-INCH

7D STA 327+95, 29.7' RT
INLETS 2x3-H-S

7E

8G

8 STA 156+85, 40.7' RT
INLETS 7-H

REMOVING STORM SEWER 12-INCH

8B STA 330+55, 24.8' RT
INLETS 4-H-S

HAMMOND AVE

8A

8B

8C

8C STA 330+82, 30.1' RT
INLETS 2x3-H
0.392 ACRES
FUTURE CONNECTION
RECONNECT UNDERDRAIN
(INCIDENTAL TO STRUCTURE 8C)

STA 327+86, 29.6' RT
INLETS 2x3-H
(RECONNECT TO UNDERDRAIN
INCIDENTAL TO STRUCTURE 7E)

7E

STA 327+93, 29' RT
REMOVING INLETS

STA 329+39, 30.1' RT
INLETS 2x3-H

8G

STA 157+48, 55.0' RT
INLETS 2x3-H-S
(NOT SHOWN)

8GG

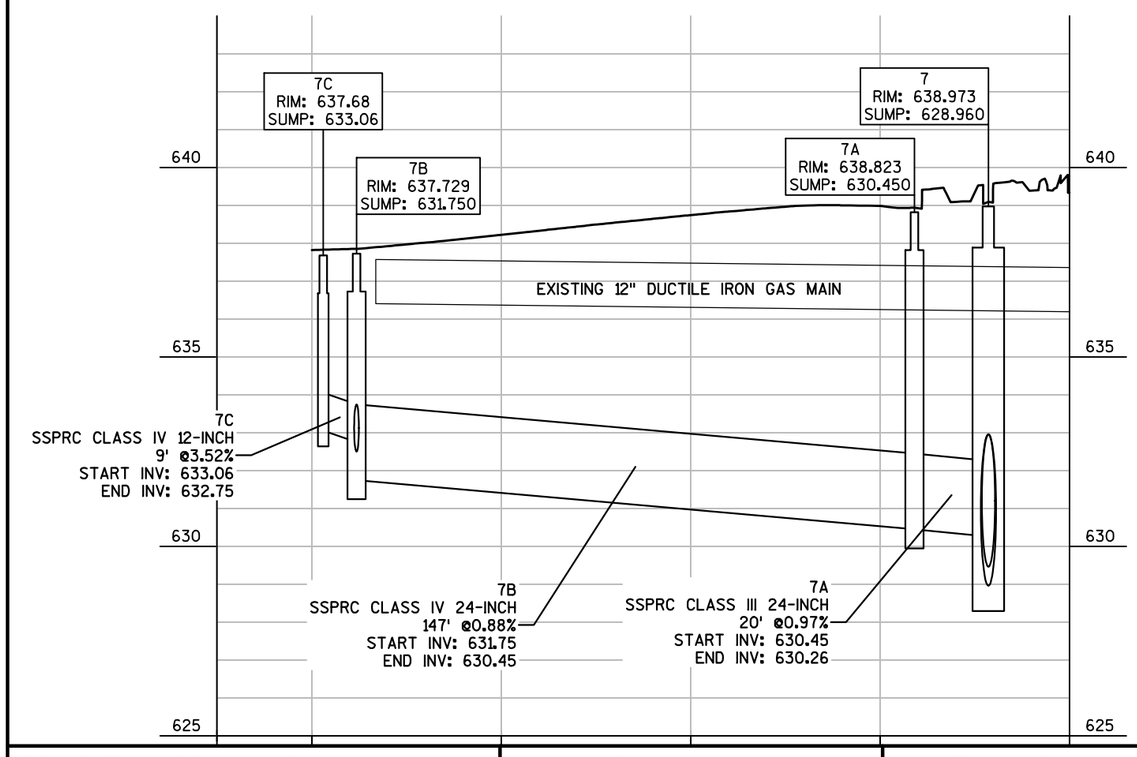
STA 156+81, 39.0' LT
INLETS 4-H-S

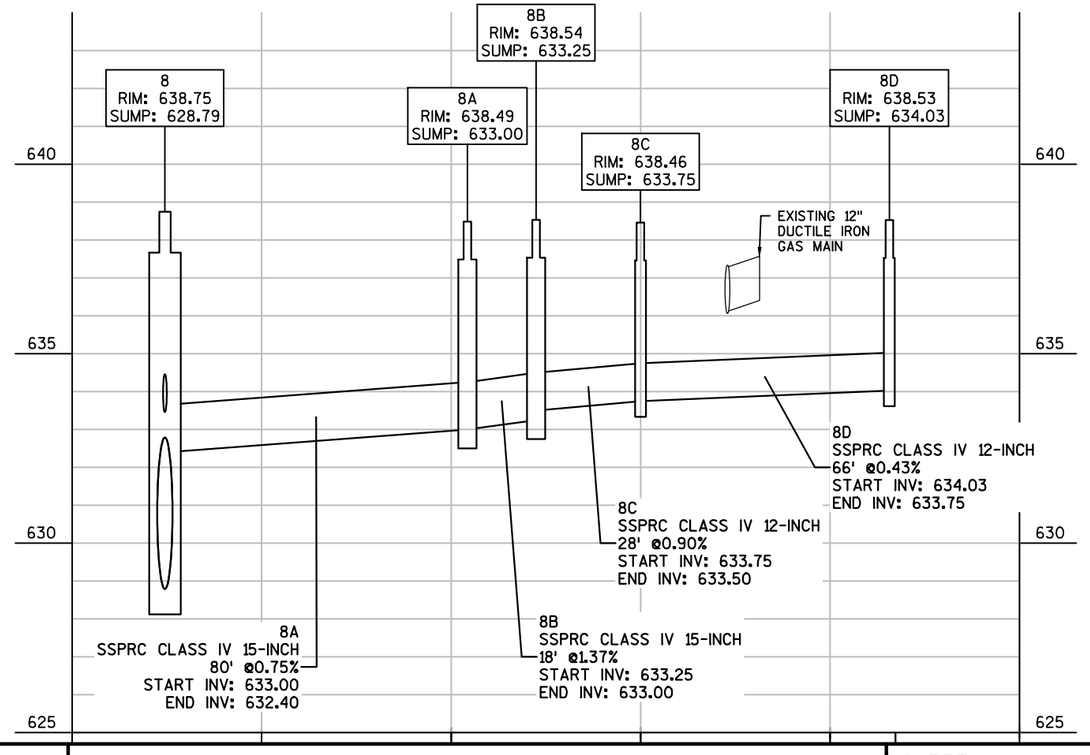
8A

STA 330+65 31'RT
REMOVING INLETS

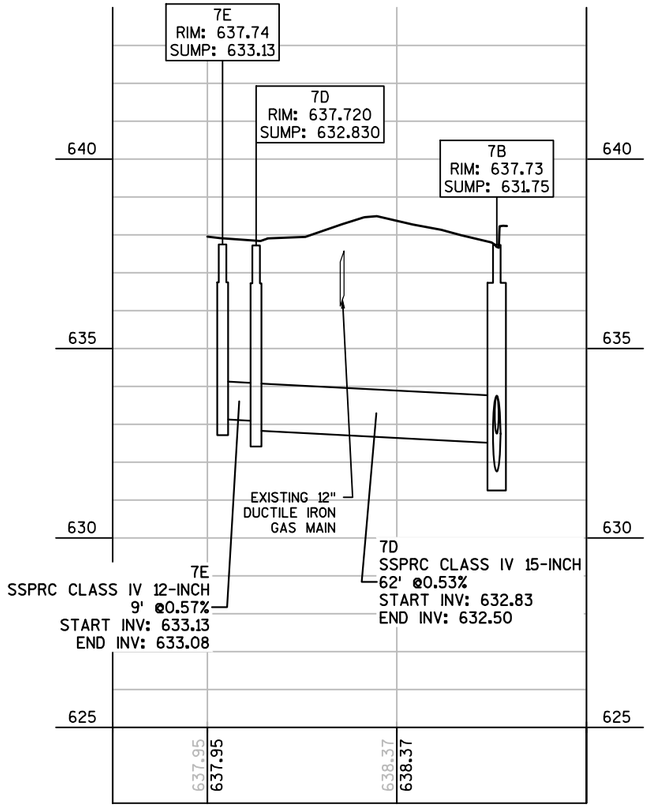
LEGEND

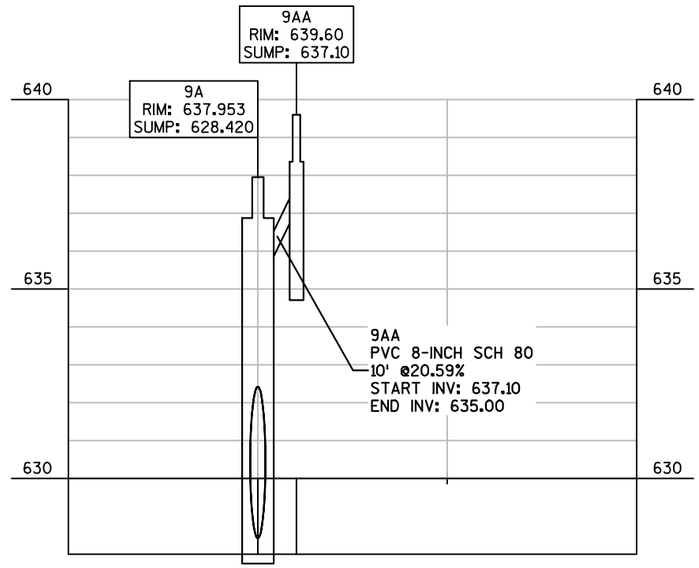
ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

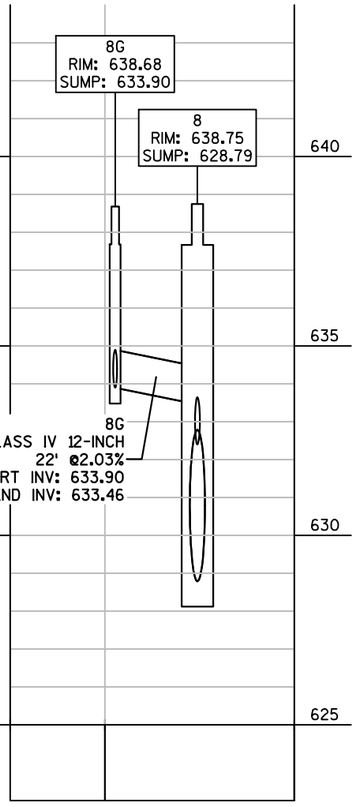


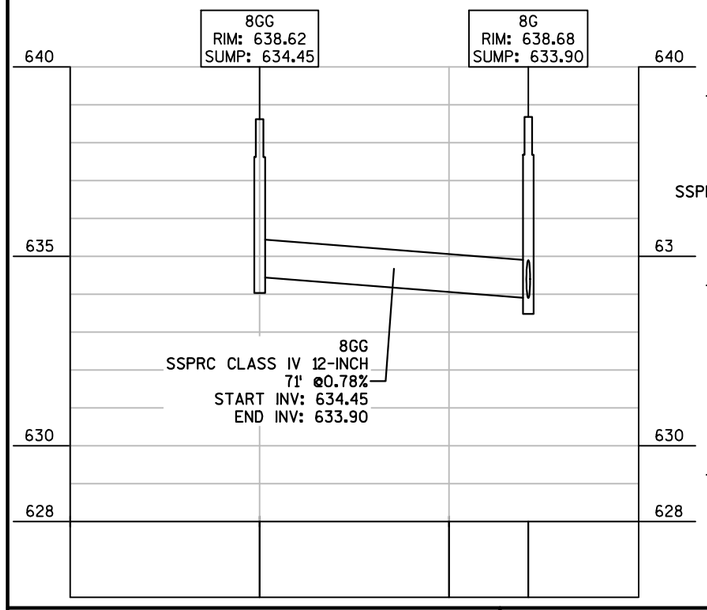


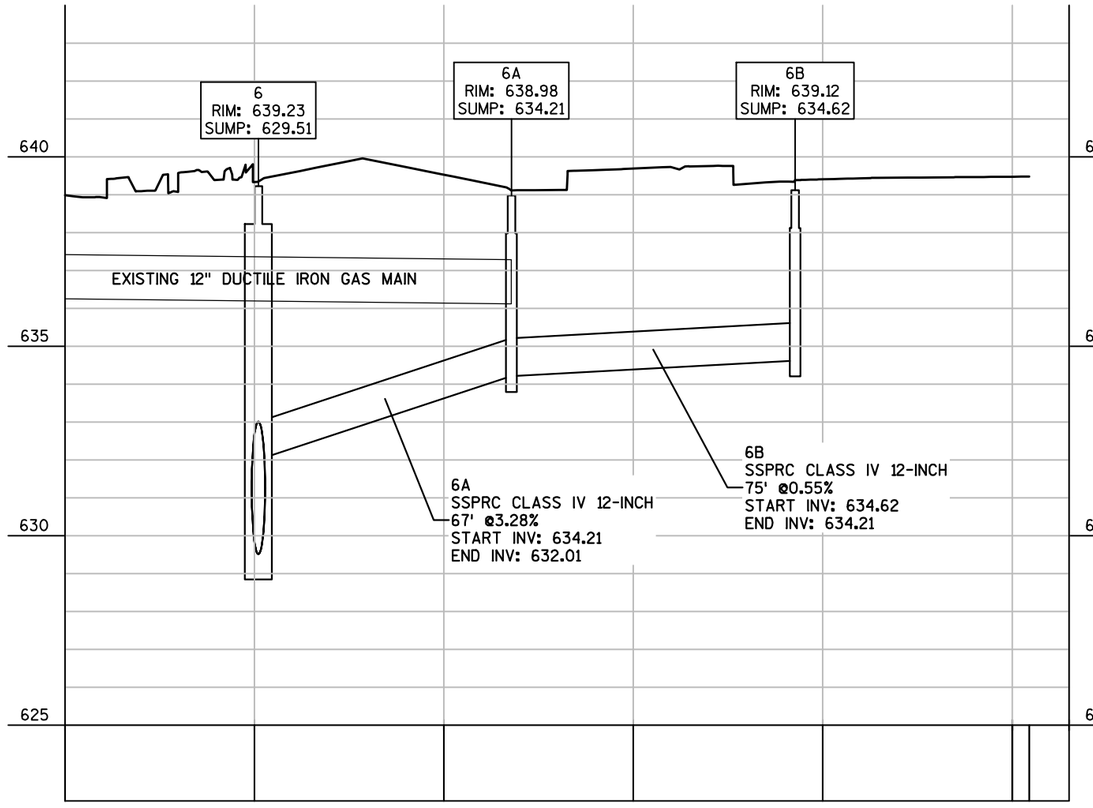
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 100	E

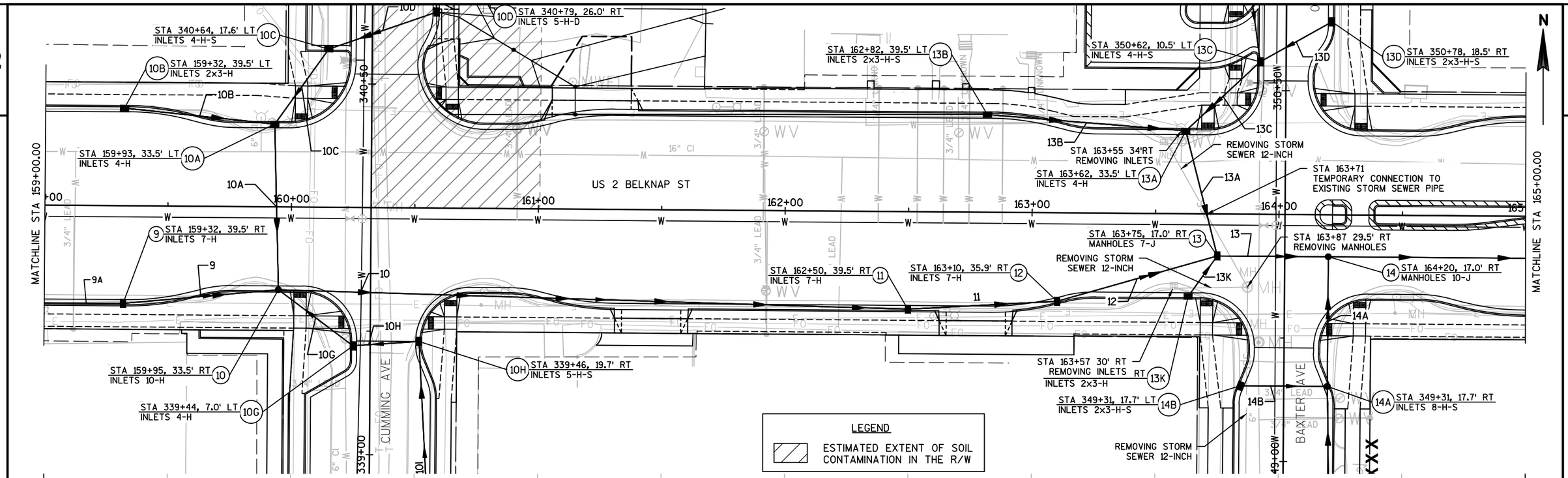

7E
RIM: 637.74
SUMP: 633.13
7D
RIM: 637.720
SUMP: 632.830
7B
RIM: 637.73
SUMP: 631.75
640
635
630
625
637.95
638.37
EXISTING 12" DUCTILE IRON GAS MAIN
7E
SSPRC CLASS IV 12-INCH
9' @0.57%
START INV: 633.13
END INV: 633.08
7D
SSPRC CLASS IV 15-INCH
62' @0.53%
START INV: 632.83
END INV: 632.50

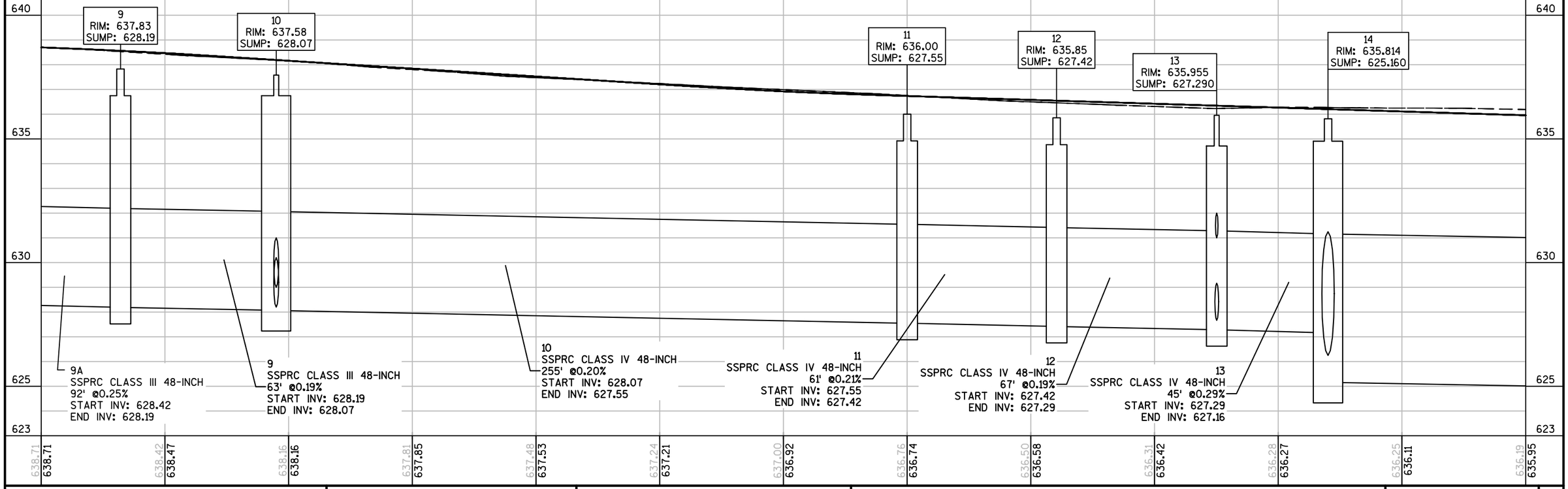

9AA
RIM: 639.60
SUMP: 637.10
9A
RIM: 637.953
SUMP: 628.420
640
635
630
9AA
PVC 8-INCH SCH 80
10' @20.59%
START INV: 637.10
END INV: 635.00


8G
RIM: 638.68
SUMP: 633.90
8
RIM: 638.75
SUMP: 628.79
640
635
630
625
8G
SSPRC CLASS IV 12-INCH
22' @2.03%
START INV: 633.90
END INV: 633.46


8GG
RIM: 638.62
SUMP: 634.45
8G
RIM: 638.68
SUMP: 633.90
640
635
630
628
8GG
SSPRC CLASS IV 12-INCH
71' @0.78%
START INV: 634.45
END INV: 633.90


6
RIM: 639.23
SUMP: 629.51
6A
RIM: 638.98
SUMP: 634.21
6B
RIM: 639.12
SUMP: 634.62
640
635
630
625
EXISTING 12" DUCTILE IRON GAS MAIN
6A
SSPRC CLASS IV 12-INCH
67' @3.28%
START INV: 634.21
END INV: 632.01
6B
SSPRC CLASS IV 12-INCH
75' @0.55%
START INV: 634.62
END INV: 634.21





PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 102	E

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

N

US 2 BELKNAP ST

CUMMING AVE

10K STA 338+36, 25.5' LT
INLETS 2x3-H-S

STA 338+25, 14.5' LT
INLETS 4-H-D (10J)

STA 338+17 15.5'LT
REMOVING INLETS

STA 159+95, 33.5' RT
INLETS 10-H (10)

STA 339+44, 7.0' LT
INLETS 4-H (10G)

10M STA 338+05, 14.5' LT
INLETS 2x3-H

REMOVING STORM
SEWER 8-INCH

337+00

339+00

340+00

341+00

342+00

343+00

STA 338+17, 0' LT/RT
RECONSTRUCTING MANHOLES
SEAL EXISTING 8" PIPES IN THE MANHOLE.
MANHOLE TO BE USED AS SANITARY
SEWER ONLY

REMOVING STORM
SEWER 8-INCH

STA 338+19, 16' RT
REMOVING INLETS

STA 338+25, 18.9' RT
INLETS 4-H-D (10L)

10I STA 338+50, 25.3' RT
INLETS 4-H-S

STA 339+46, 19.7' RT
INLETS 5-H-S (10H)

10B STA 159+32, 39.5' LT
INLETS 2x3-H

10A STA 159+93, 33.5' LT
INLETS 4-H

10C STA 340+64, 17.6' LT
INLETS 4-H-S

10FF STA 341+95, 8.0' LT
INLETS 2x3-H

10F STA 342+21, 14.5' LT
INLETS 2x3-H-S

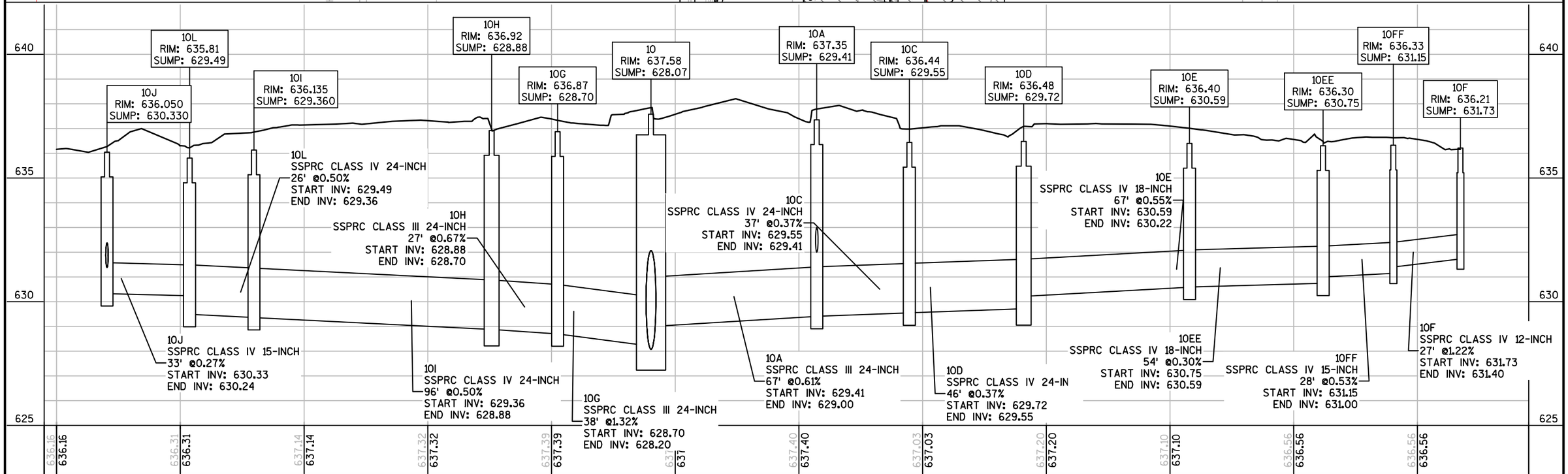
STA 341+76, 18.7' RT
REMOVING INLETS

10EE STA 342+00, 20.0' RT
INLETS 4-H

10D STA 340+79, 26.0' RT
INLETS 5-H-D

10E STA 341+46, 26.0' RT
INLETS 4-H-S

10P STA 341+84, 33.4' RT
MANHOLES 4-J
MANHOLE FOR SANITARY SEWER



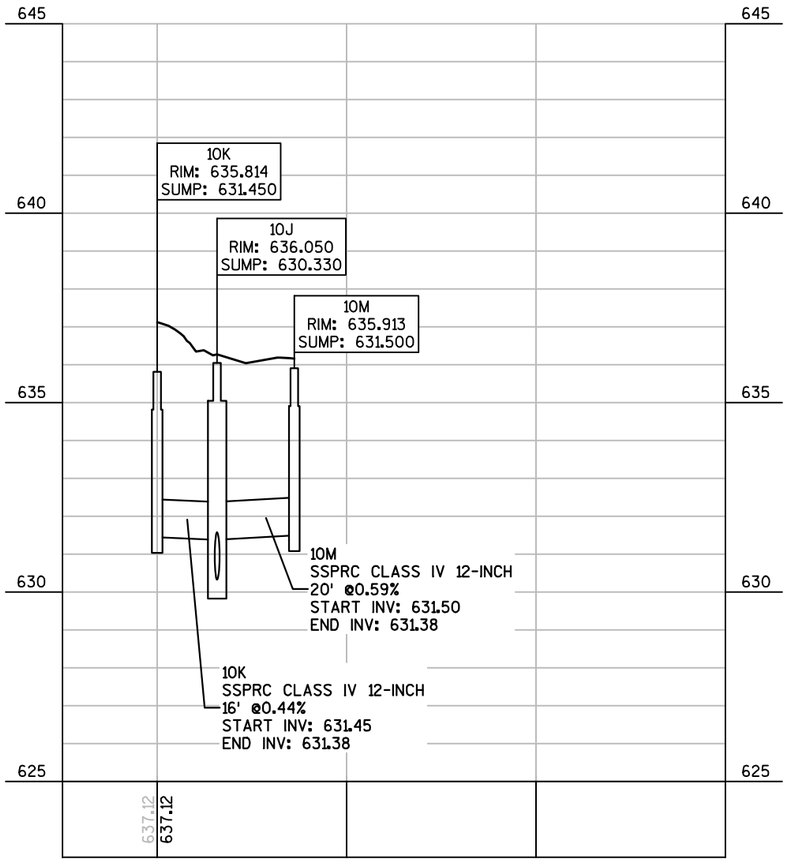
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 103	E

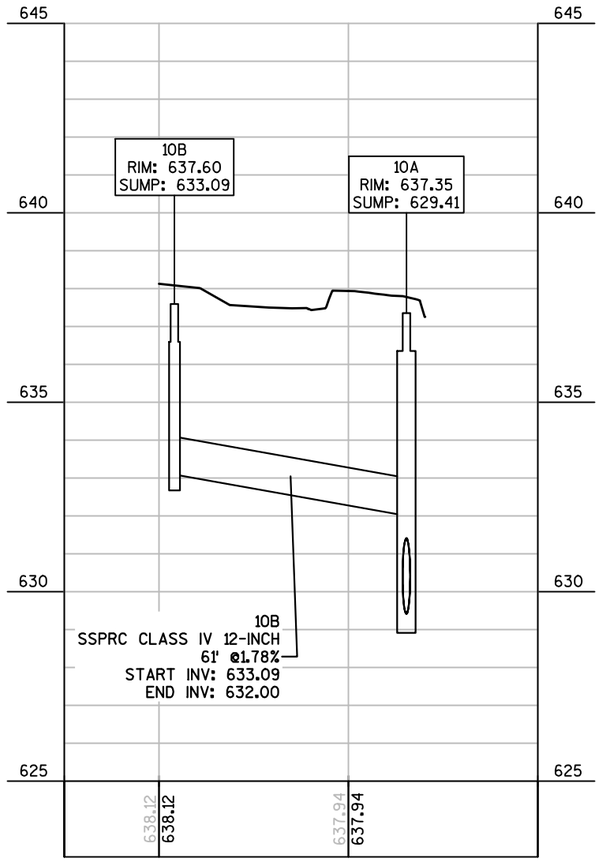
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LAYOUT NAME - 022512_SS

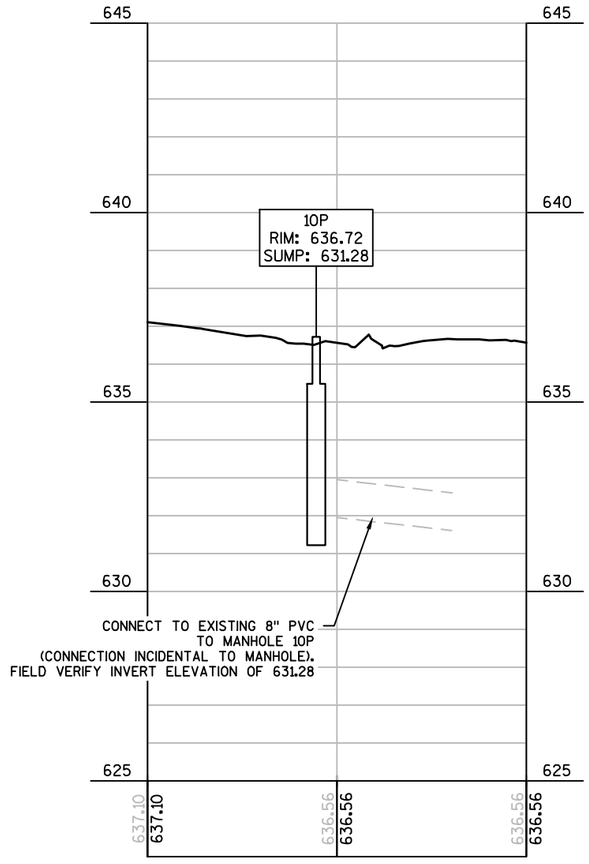
PLOT DATE : 10/19/2016 2:49 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2


645
640
635
630
625
10K
RIM: 635.814
SUMP: 631.450
10J
RIM: 636.050
SUMP: 630.330
10M
RIM: 635.913
SUMP: 631.500
10M
SSPRC CLASS IV 12-INCH
20' @0.59%
START INV: 631.50
END INV: 631.38
10K
SSPRC CLASS IV 12-INCH
16' @0.44%
START INV: 631.45
END INV: 631.38
637.12
637.12


645
640
635
630
625
10B
RIM: 637.60
SUMP: 633.09
10A
RIM: 637.35
SUMP: 629.41
10B
SSPRC CLASS IV 12-INCH
61' @1.78%
START INV: 633.09
END INV: 632.00
638.12
638.12
637.94
637.94


645
640
635
630
625
10P
RIM: 636.72
SUMP: 631.28
CONNECT TO EXISTING 8" PVC
TO MANHOLE 10P
(CONNECTION INCIDENTAL TO MANHOLE).
FIELD VERIFY INVERT ELEVATION OF 631.28
637.10
637.10
636.56
636.56
636.56
636.56

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

N

STA 348+26, 15.3' LT
MANHOLES 4-L
REMOVING MANHOLES
14P

STA 348+33, 19.5' LT
INLETS 2x3-H-S
14D

STA 349+31, 17.7' LT
INLETS 2x3-H-S
14B

STA 348+00, 11.5' LT
INLETS 2x3-H
14F

14P2

14P1

14P3

14D

REMOVING STORM SEWER 12-INCH

347+25

348+00

349+00

14F

14B

CAUTION

STA 348+19 17'/RT
REMOVING INLETS

14E

14C

STA 348+17.00, 0.0' LT
RECONSTRUCTING MANHOLES

STA 348+00, 11.5' RT
INLETS 8-H
FUTURE CONNECTION
14E

STA 348+00
BEGIN SCHEDULE 40 PVC PERFORATED
6-INCH INSTALLATION

REMOVING STORM
SEWER 6-INCH

14C STA 348+33, 19.5' RT
INLETS 8-H-S

STA 349+31, 17.7' RT
INLETS 8-H-S
14A

STA 349+83
END SCHEDULE 40
PVC PERFORATED
6-INCH INSTALLATION

BAXTER AVE

US 2 BELKNAP ST

STA 163+75, 17.0' RT
MANHOLES 7-J
13

STA 163+63, 33.5' RT
INLETS 2x3-H
13K

STA 163+62, 33.5' LT
INLETS 4-H
13A

12

163+00

13K

13A

CAUTION

160+00

350+00

13

14A

14 STA 164+20, 17.0' RT
MANHOLES 10-J

13B STA 162+82, 39.5' LT
INLETS 2x3-H-S

13B

UNKNOWN

ONE-WAY

130 STA 351+94, 110.0' LT
INLETS 2x3-H-S

130

STA 351+76, 21' LT
REMOVING INLETS

13P STA 351+80, 32.6' LT
MANHOLES 4-J
MANHOLE FOR SANITARY SEWER

13C STA 350+62, 10.5' LT
INLETS 4-H-S

STA 351+60, 24.5' LT
INLETS 2x3-H-S
13L

13N STA 351+94, 36.5' LT
INLETS 2x3-H

13E STA 351+04, 16.5' LT
INLETS 6-H-S

REMOVING STORM SEWER 10-INCH

13L

13C

13G

13N

13I

13I STA 352+24, 21.1' LT
INLETS 2x3-H

13E

13M

351+00

352+00

353+00

CAUTION

13D

STA 351+52, 16.5' LT
INLETS 6-H-S
13G

13GG

13J

13M STA 351+96, 13.0' LT
INLETS 4-H

13D STA 350+78, 18.5' RT
INLETS 2x3-H-S

13GG STA 351+69, 18.5' RT
INLETS 2x3-H-S

13J STA 352+23, 21.0' RT
INLETS 2x3-H

14E	14C	14A	14	13	13A	13C	13E	13G	13I	13J
RIM: 635.097	RIM: 634.992	RIM: 635.040	RIM: 635.81	RIM: 635.96	RIM: 635.75	RIM: 635.05	RIM: 635.26	RIM: 634.94	RIM: 634.38	RIM: 634.40
SUMP: 626.720	SUMP: 626.650	SUMP: 626.440	SUMP: 625.16	SUMP: 627.29	SUMP: 628.19	SUMP: 628.45	SUMP: 628.75	SUMP: 628.97	SUMP: 629.69	SUMP: 629.90

635 / 630 / 625 / 621

14E
SSPRC CLASS IV 60-INCH
34' @0.21%
START INV: 626.72
END INV: 626.65

14C
SSPRC CLASS IV 60-INCH
98' @0.22%
START INV: 626.65
END INV: 626.44

14A
SSPRC CLASS IV 60-INCH
52' @0.36%
START INV: 626.44
END INV: 626.25

13A
SSPRC CLASS III 18-INCH
52' @1.00%
START INV: 628.19
END INV: 627.67

13C
SSPRC CLASS III 18-INCH
41' @0.63%
START INV: 628.45
END INV: 628.19

13E
SSPRC CLASS III 18-INCH
43' @0.70%
START INV: 628.75
END INV: 628.45

13G
SSPRC CLASS IV 18-INCH
48' @0.46%
START INV: 628.97
END INV: 628.75

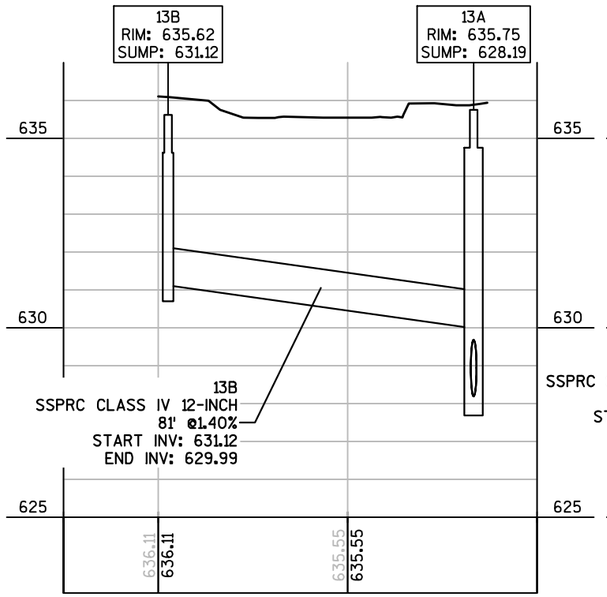
13M
SSPRC CLASS IV 18-INCH
44' @0.18%
START INV: 629.05
END INV: 628.97

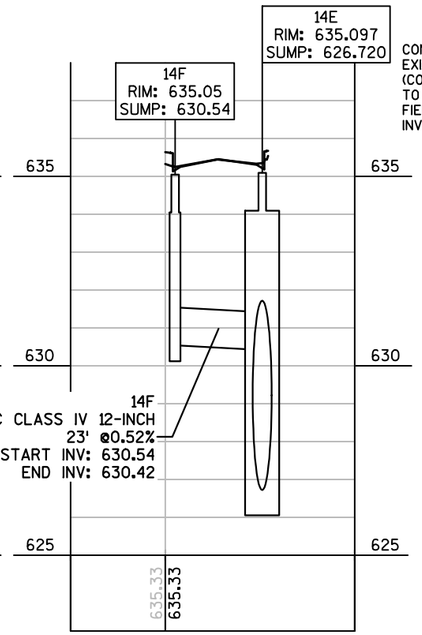
13I
SSPRC CLASS IV 12-INCH
29' @0.49%
START INV: 629.69
END INV: 629.55

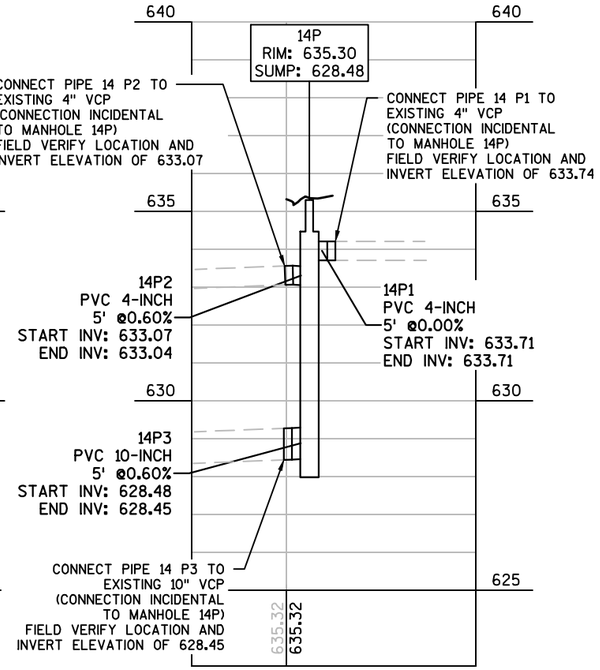
13J
SSPRC CLASS IV 12-INCH
42' @0.50%
START INV: 629.90
END INV: 629.69

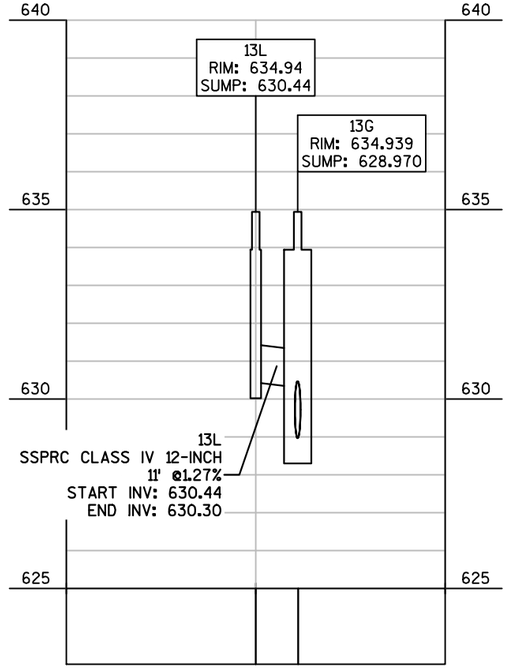
635.36 635.36 635.39 635.39 635.61 635.61 635.57 635.57 635.97 635.97 636.22 636.22 636.06 636.06 635.54 635.54 635.19 635.19 634.73 634.73 634.73 634.73

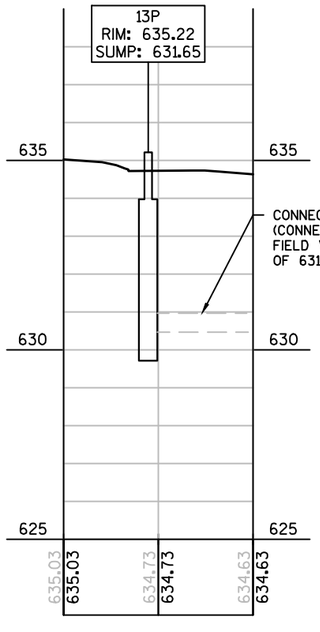
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 105	E

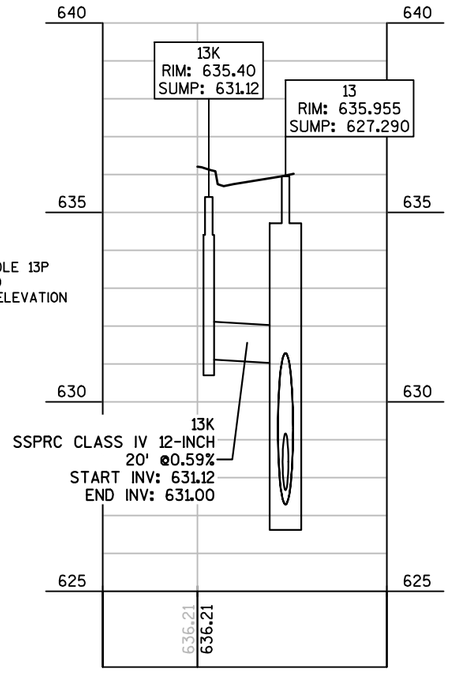

13B
RIM: 635.62
SUMP: 631.12
13A
RIM: 635.75
SUMP: 628.19
635
630
625
13B
SSPRC CLASS IV 12-INCH
81' @1.40%
START INV: 631.12
END INV: 629.99
636.11
636.11
635.55
635.55

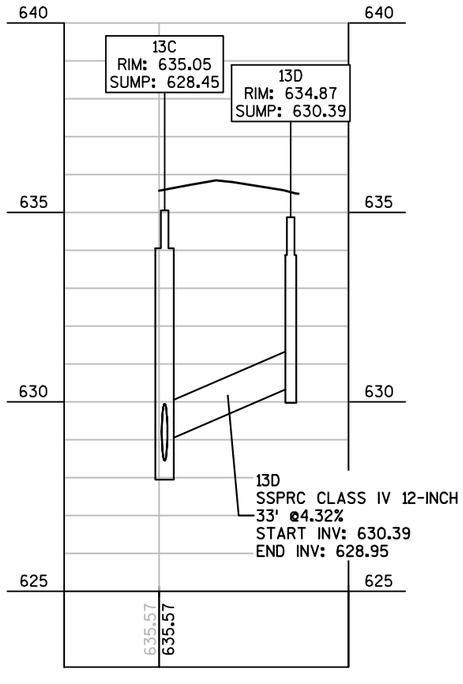

14E
RIM: 635.097
SUMP: 626.720
14F
RIM: 635.05
SUMP: 630.54
635
630
625
14F
SSPRC CLASS IV 12-INCH
23' @0.52%
START INV: 630.54
END INV: 630.42
635.33
635.33

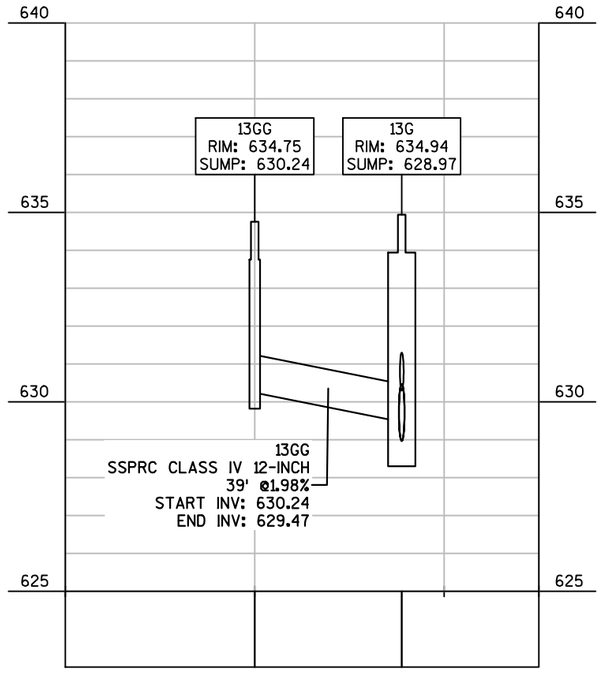

640
14P
RIM: 635.30
SUMP: 628.48
CONNECT PIPE 14 P2 TO
EXISTING 4" VCP
(CONNECTION INCIDENTAL
TO MANHOLE 14P)
FIELD VERIFY LOCATION AND
INVERT ELEVATION OF 633.07
CONNECT PIPE 14 P1 TO
EXISTING 4" VCP
(CONNECTION INCIDENTAL
TO MANHOLE 14P)
FIELD VERIFY LOCATION AND
INVERT ELEVATION OF 633.74
635
630
625
14P2
PVC 4-INCH
5' @0.60%
START INV: 633.07
END INV: 633.04
14P1
PVC 4-INCH
5' @0.00%
START INV: 633.71
END INV: 633.71
14P3
PVC 10-INCH
5' @0.60%
START INV: 628.48
END INV: 628.45
CONNECT PIPE 14 P3 TO
EXISTING 10" VCP
(CONNECTION INCIDENTAL
TO MANHOLE 14P)
FIELD VERIFY LOCATION AND
INVERT ELEVATION OF 628.45
635.32
635.32

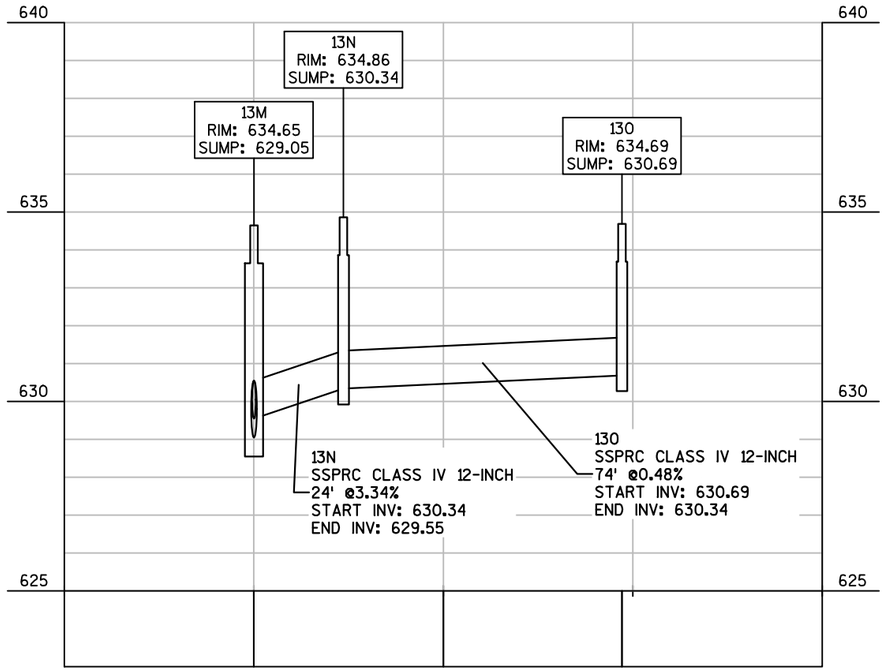

13L
RIM: 634.94
SUMP: 630.44
13G
RIM: 634.939
SUMP: 628.970
635
630
625
13L
SSPRC CLASS IV 12-INCH
11' @1.27%
START INV: 630.44
END INV: 630.30

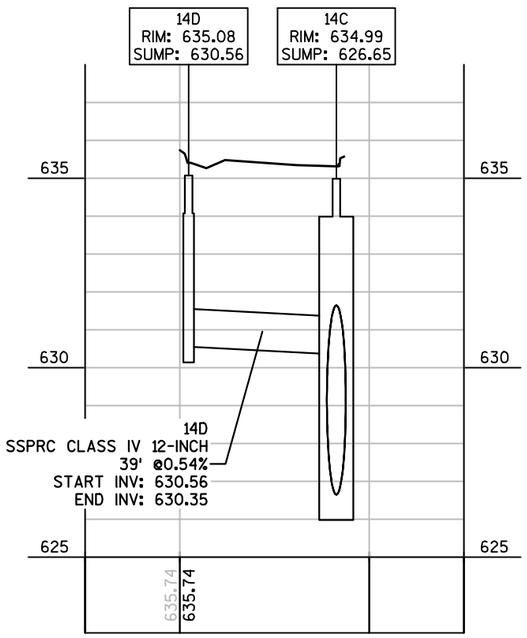

13P
RIM: 635.22
SUMP: 631.65
635
630
625
CONNECT EXISTING 10" VCP TO MANHOLE 13P
(CONNECTION INCIDENTAL TO MANHOLE)
FIELD VERIFY LOCATION AND INVERT ELEVATION
OF 631.65
635.03
635.03
634.73
634.73
634.63
634.63

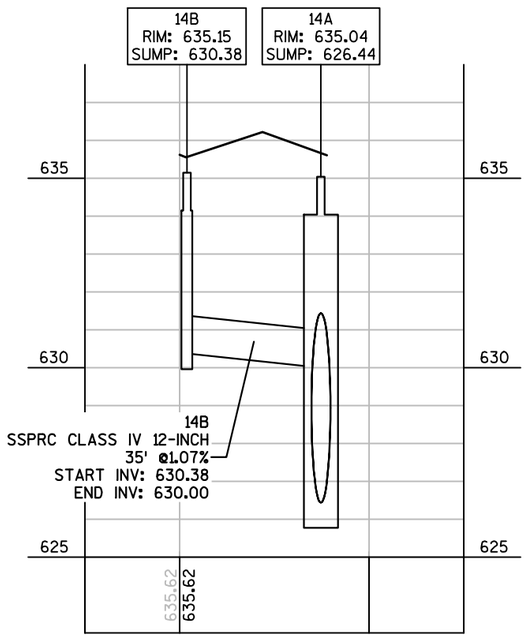

640
13K
RIM: 635.40
SUMP: 631.12
13
RIM: 635.955
SUMP: 627.290
635
630
625
13K
SSPRC CLASS IV 12-INCH
20' @0.59%
START INV: 631.12
END INV: 631.00
636.21
636.21


640
13C
RIM: 635.05
SUMP: 628.45
13D
RIM: 634.87
SUMP: 630.39
635
630
625
13D
SSPRC CLASS IV 12-INCH
33' @4.32%
START INV: 630.39
END INV: 628.95
635.57
635.57


640
13GG
RIM: 634.75
SUMP: 630.24
13G
RIM: 634.94
SUMP: 628.97
635
630
625
13GG
SSPRC CLASS IV 12-INCH
39' @1.98%
START INV: 630.24
END INV: 629.47


640
635
630
625
13N
RIM: 634.86
SUMP: 630.34
13M
RIM: 634.65
SUMP: 629.05
130
RIM: 634.69
SUMP: 630.69
13N
SSPRC CLASS IV 12-INCH
24' @3.34%
START INV: 630.34
END INV: 629.55
130
SSPRC CLASS IV 12-INCH
74' @0.48%
START INV: 630.69
END INV: 630.34


635
630
625
14D
RIM: 635.08
SUMP: 630.56
14C
RIM: 634.99
SUMP: 626.65
14D
SSPRC CLASS IV 12-INCH
39' @0.54%
START INV: 630.56
END INV: 630.35
635.74
635.74


635
630
625
14B
RIM: 635.15
SUMP: 630.38
14A
RIM: 635.04
SUMP: 626.44
14B
SSPRC CLASS IV 12-INCH
35' @1.07%
START INV: 630.38
END INV: 630.00
635.62
635.62

2

N

MATCHLINE STA 165+00.00

MATCHLINE STA 170+50.00

US 2 BELKNAP ST

GRAND AVE

LAMBORN AVE

370+50

359+00

166+00

167+00

168+00

169+00

170+00

STA 166+55, 39.5' LT
INLETS 2x3-H
15B

STA 167+15, 33.5' LT
INLETS 4-H
15A

STA 370+82, 29.5' RT
INLETS 2x3-H-S
15D

STA 170+42, 39.5' LT
INLETS 2x3-H
17B

STA 167+48, 17.0' RT
MANHOLES 10-J
15

STA 166+69, 39.5' RT
INLETS 2x3-H-S
15H

STA 167+34, 33.5' RT
INLETS 4-H
15G

STA 359+22, 23.5' LT
INLETS 4-H-S
15I

STA 359+32, 23.5' RT
INLETS 4-H-S
15J

STA 170+33, 38.8' RT
INLETS 2x3-H-D
17G

15B 15C 15AA 14 15G 15H 15I 15J

XXX

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

15
RIM: 635.03
SUMP: 624.58

14
SSPRC CLASS IV 72-INCH
328' @0.18%
START INV: 625.16
END INV: 624.58

15
SSPRC CLASS IV 72-INCH
353' @0.20%
START INV: 624.58
END INV: 623.88

635
630
625
620

636.19 635.95
636.02 635.80
635.80 635.64
635.69 635.48
635.51 635.33
635.36 635.17
635.25 635.01
635.00 634.86
634.70 634.70
634.44 634.42
634.08 634.04
633.77 633.66

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 108	E

FILE NAME : O:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022516-SS
PLOT DATE : 10/19/2016 2:53 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

STA 166+69, 39.5' RT
INLETS 2x3-H-S
15H

STA 167+34, 33.5' RT
INLETS 4-H
15G

STA 359+22, 23.5' LT
INLETS 4-H-S
15I

STA 359+33.51 21.6 LT
REMOVING INLETS

STA 358+36, 23.2' LT
INLETS 2x3-H
15M

STA 358+23, 18.8' LT
RECONSTRUCTING MANHOLES
TYPE J CASTING

REMOVING STORM SEWER 12-INCH

REMOVING STORM SEWER 12-INCH

STA 359+32, 23.5' RT
INLETS 4-H-S
15J

STA 358+91 25.6' RT
REMOVING INLETS

STA 100+59, 14.5' RT
INLETS 2x3-H-S
15L

STA 100+60, 17.7' LT
INLETS 2x3-H-S
15K

STA 166+55, 39.5' LT
INLETS 2x3-H
15B

STA 167+15, 33.5' LT
INLETS 4-H
15A

STA 167+43, 33.5' LT
MANHOLES 4-J
15AA

STA 167+48, 17.0' RT
MANHOLES 10-J
15

STA 370+72, 29.5' LT
INLETS 4-H-S
15C

STA 372+00, 26.5' LT
INLETS 4-H
RECONNECT UNDERDRAIN
(INCIDENTAL TO INLET 15E)
15E

STA 370+82, 29.5' RT
INLETS 2x3-H-S
15D

STA 372+00, 29.1' RT
INLETS 2x3-H-S
RECONNECT UNDERDRAIN
(INCIDENTAL TO INLET 15F)
15F

LAMBORN AVE

GRAND AVE

US 2 BELKNAP ST

358+00 359+00 360+00 370+00 371+00 372+00 373+00

100+00 167+00 168+00

CAUTION

15M
RIM: 634.46
SUMP: 630.04

15L
RIM: 633.49
SUMP: 629.76

15K
RIM: 633.40
SUMP: 629.62

15J
RIM: 633.72
SUMP: 628.81

15I
RIM: 633.88
SUMP: 628.70

15G
RIM: 634.59
SUMP: 628.31

15M
SSPRC CLASS IV 12-INCH
77' @0.36%
START INV: 630.04
END INV: 629.76

15L
SSPRC CLASS IV 12-INCH
32' @0.43%
START INV: 629.76
END INV: 629.62

15K
SSPRC CLASS IV 12-INCH
83' @0.38%
START INV: 629.62
END INV: 629.31

15J
SSPRC CLASS IV 18-INCH
48' @0.23%
START INV: 628.81
END INV: 628.70

15I
SSPRC CLASS IV 18-INCH
47' @0.82%
START INV: 628.70
END INV: 628.31

635 630 625 623

634.67 634.67 634.68 634.68 634.47 634.47 634.65 634.65 634.36 634.36 634.77 634.77 635.08 635.08 634.76 634.76

15C
RIM: 633.59
SUMP: 627.03

15D
RIM: 633.50
SUMP: 629.01

15D
SSPRC CLASS IV 12-INCH
60' @1.64%
START INV: 629.01
END INV: 628.03

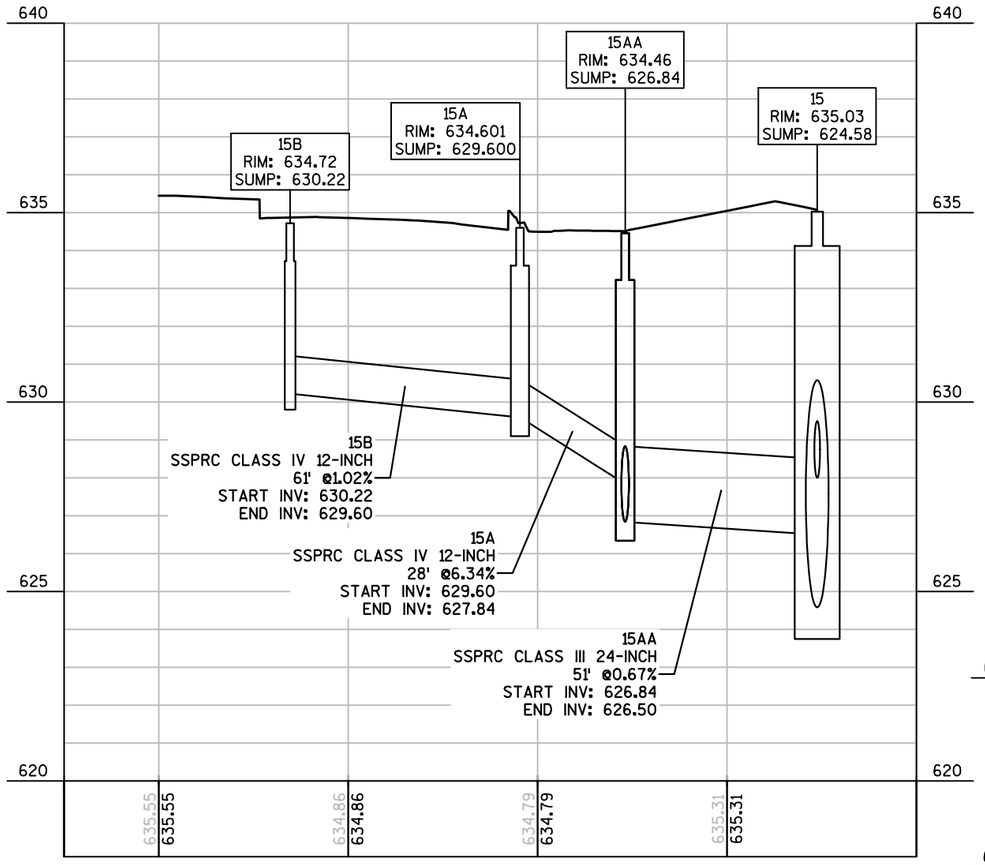
635 630 625

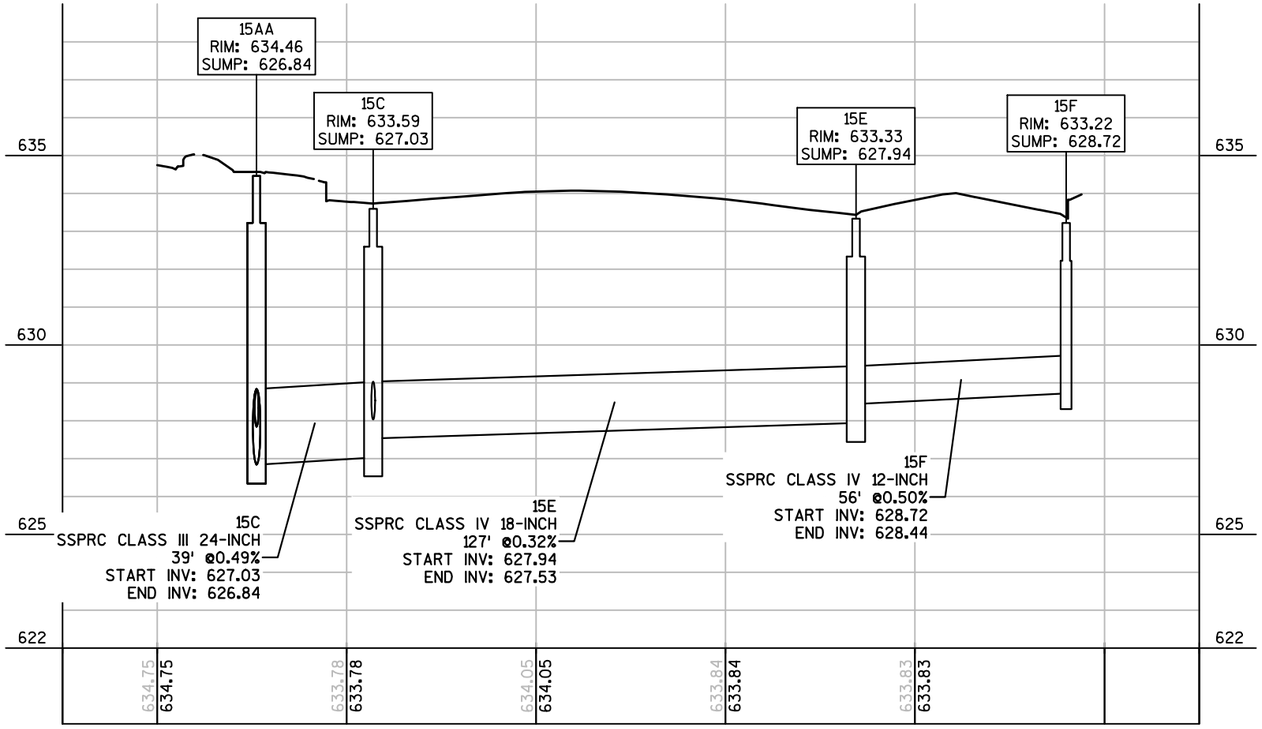
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 109	E

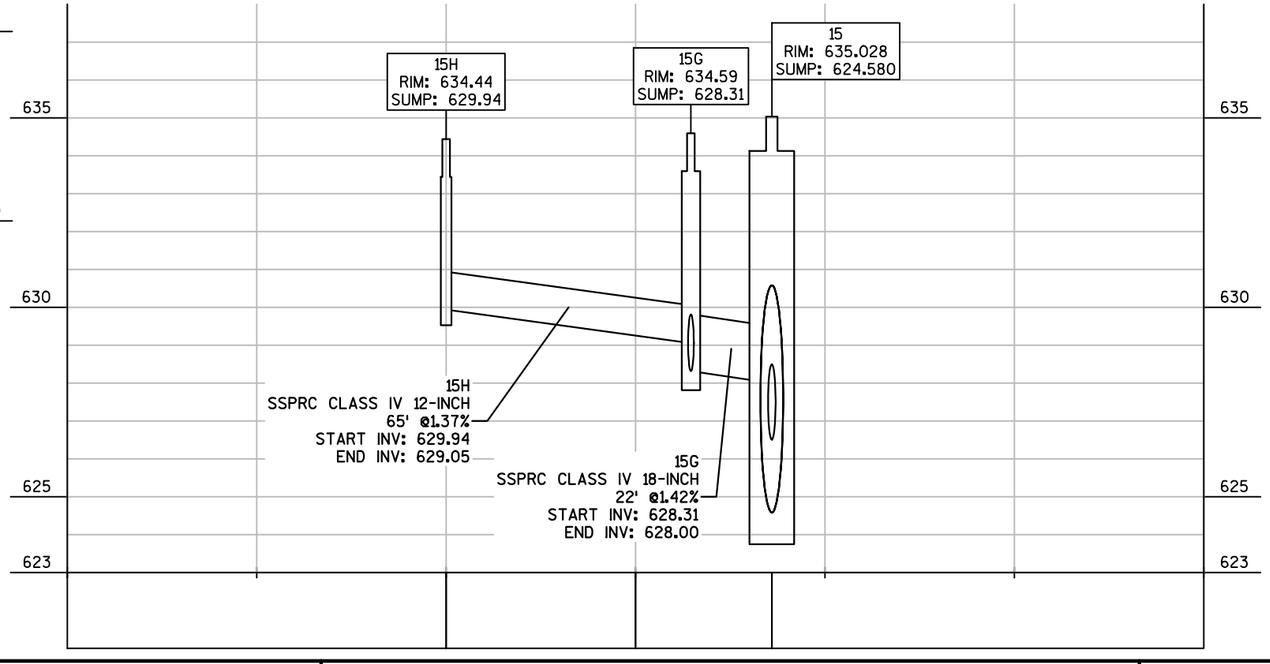
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LAYOUT NAME - 022517_SS

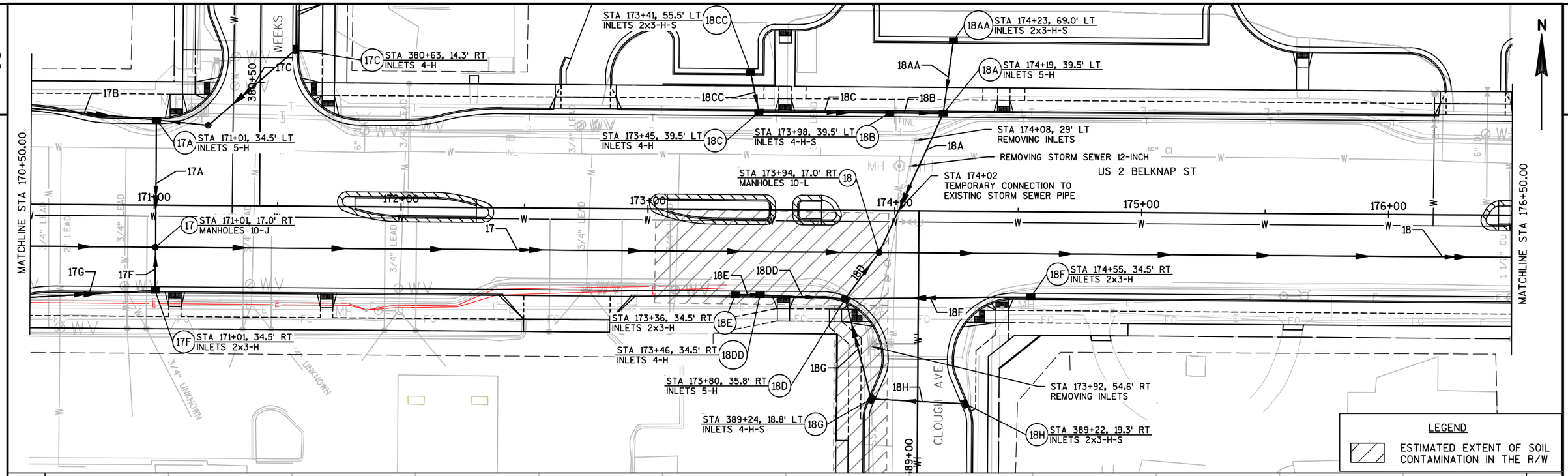
PLOT DATE : 10/19/2016 2:54 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT

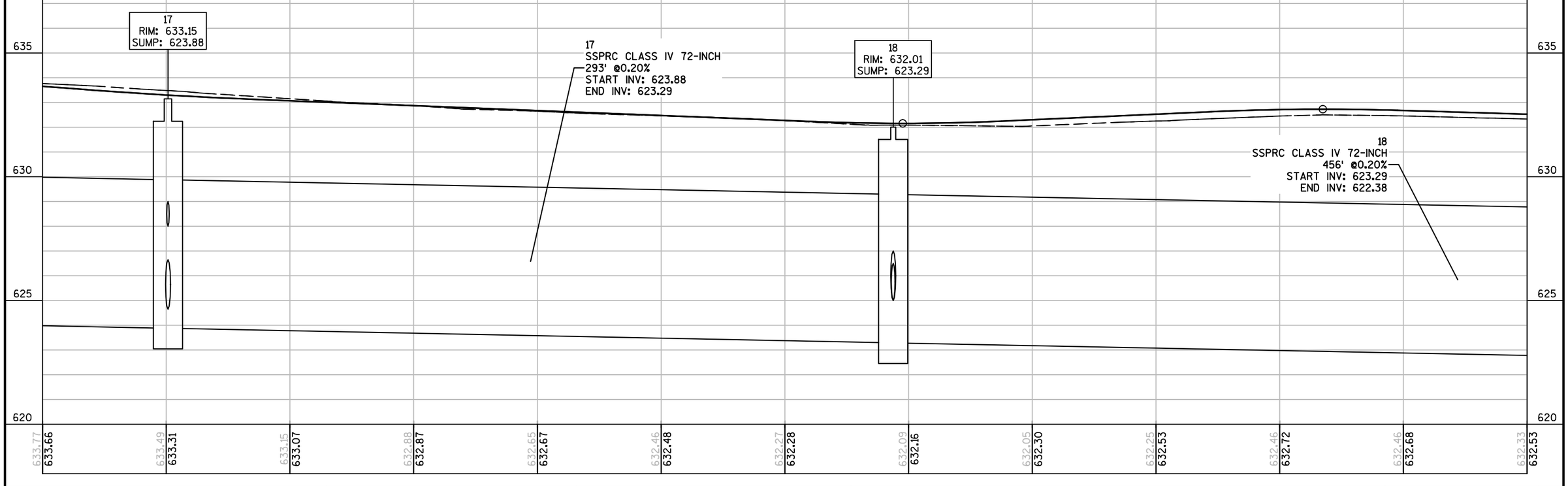
WISDOT/CADDS SHEET 41


640
635
630
625
620
15B
RIM: 634.72
SUMP: 630.22
15A
RIM: 634.601
SUMP: 629.600
15AA
RIM: 634.46
SUMP: 626.84
15
RIM: 635.03
SUMP: 624.58
15B
SSPRC CLASS IV 12-INCH
61' @1.02%
START INV: 630.22
END INV: 629.60
15A
SSPRC CLASS IV 12-INCH
28' @6.34%
START INV: 629.60
END INV: 627.84
15AA
SSPRC CLASS III 24-INCH
51' @0.67%
START INV: 626.84
END INV: 626.50
635.55
635.55
634.86
634.86
634.79
634.79
635.31
635.31

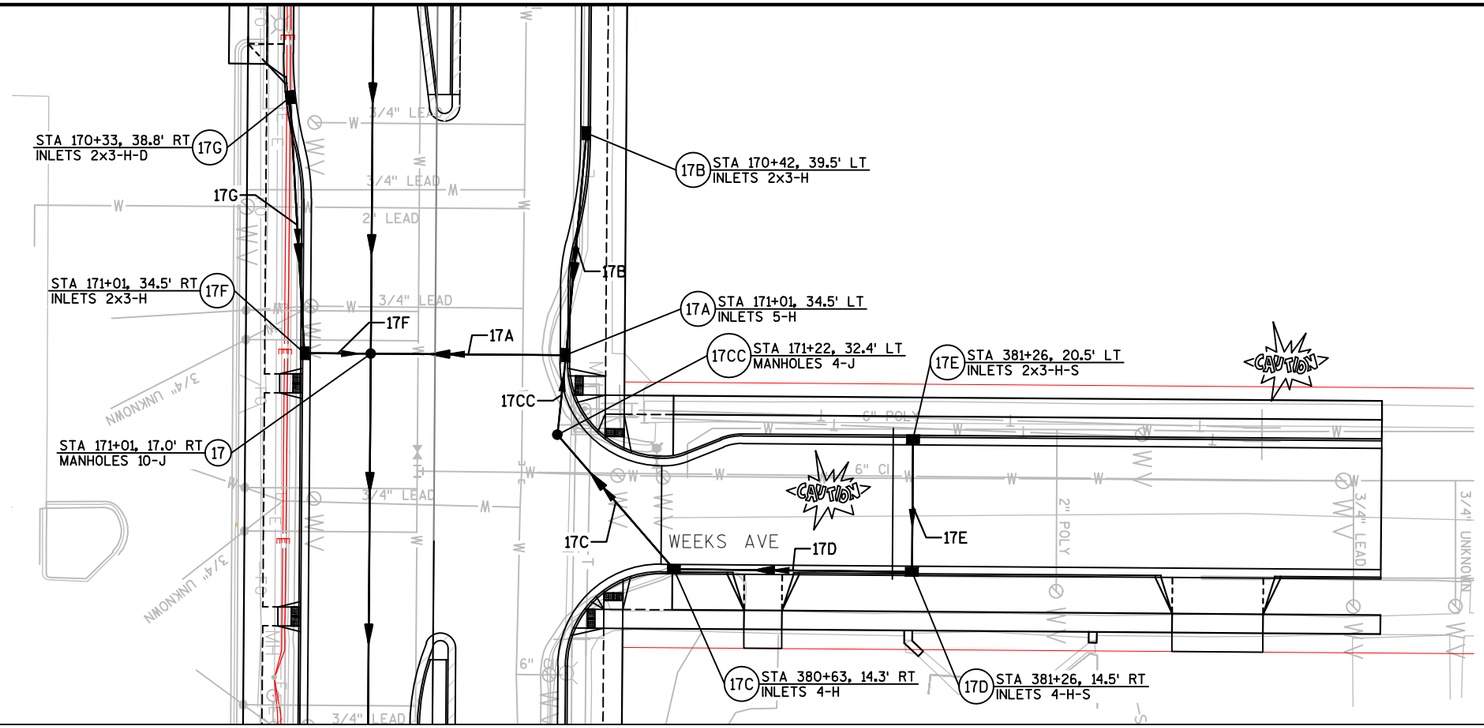

635
630
625
622
15AA
RIM: 634.46
SUMP: 626.84
15C
RIM: 633.59
SUMP: 627.03
15E
RIM: 633.33
SUMP: 627.94
15F
RIM: 633.22
SUMP: 628.72
15C
SSPRC CLASS III 24-INCH
39' @0.49%
START INV: 627.03
END INV: 626.84
15E
SSPRC CLASS IV 18-INCH
127' @0.32%
START INV: 627.94
END INV: 627.53
15F
SSPRC CLASS IV 12-INCH
56' @0.50%
START INV: 628.72
END INV: 628.44
634.75
634.75
633.78
633.78
634.05
634.05
633.84
633.84
633.83
633.83

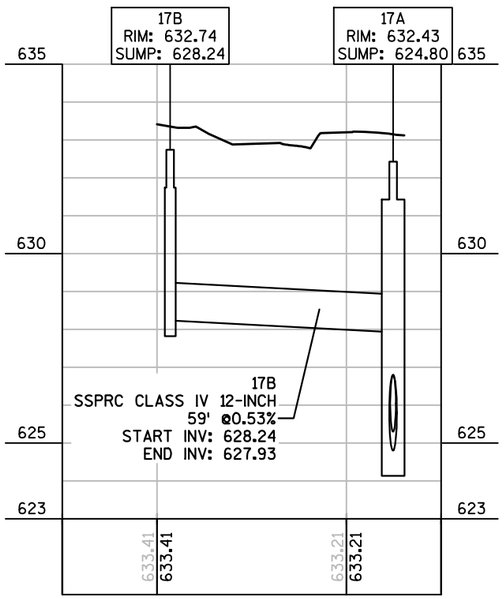

635
630
625
623
15H
RIM: 634.44
SUMP: 629.94
15G
RIM: 634.59
SUMP: 628.31
15
RIM: 635.028
SUMP: 624.580
15H
SSPRC CLASS IV 12-INCH
65' @1.37%
START INV: 629.94
END INV: 629.05
15G
SSPRC CLASS IV 18-INCH
22' @1.42%
START INV: 628.31
END INV: 628.00

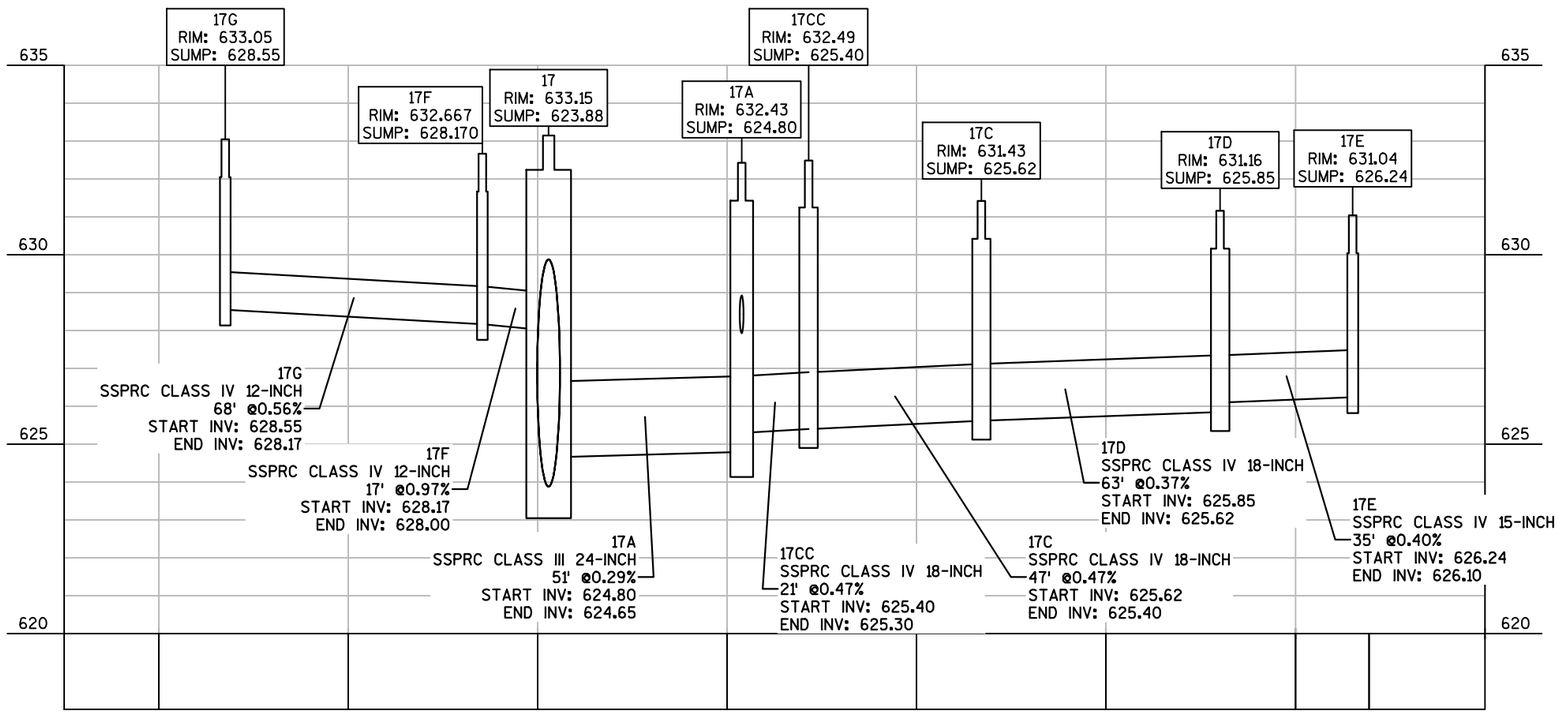




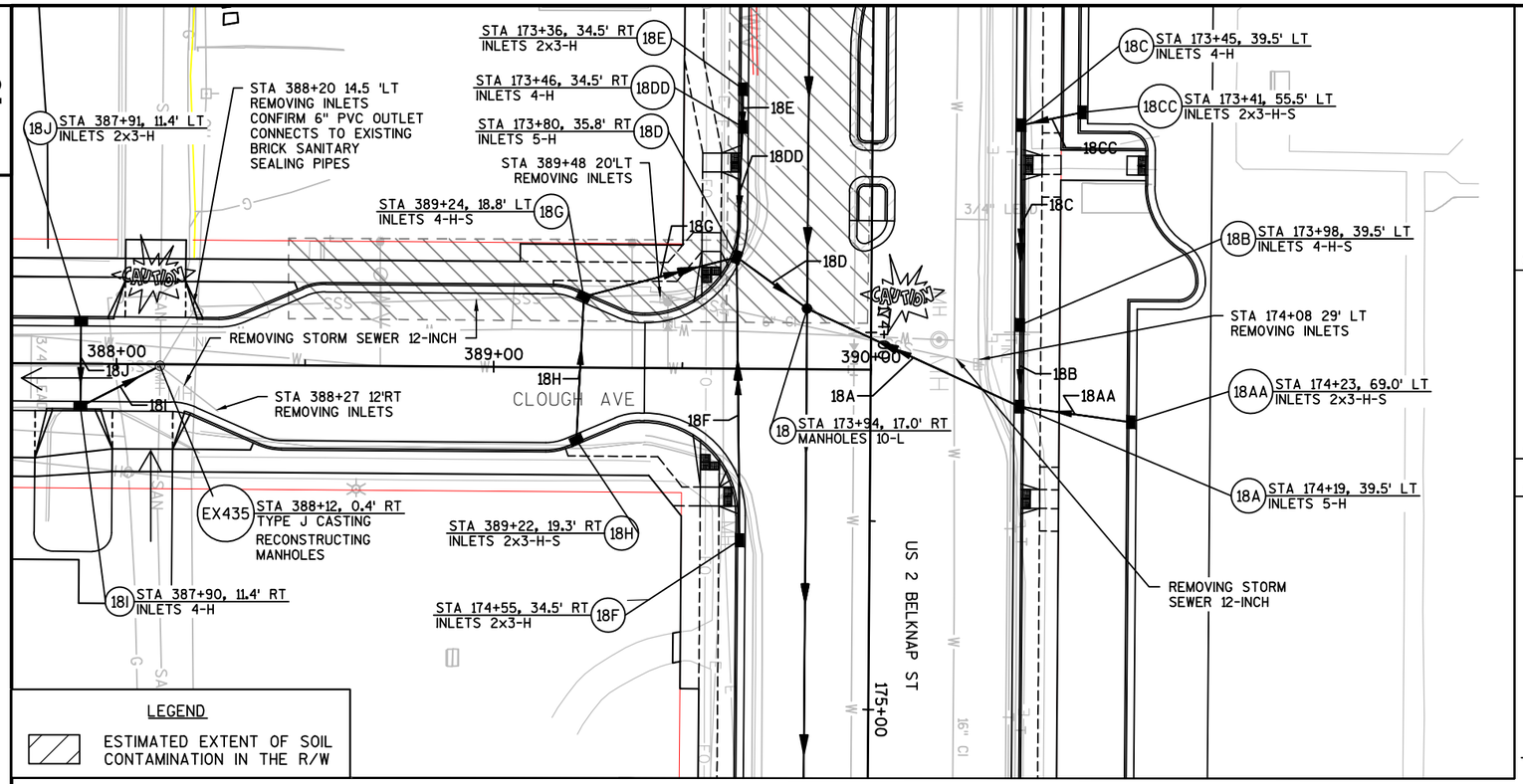
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 111	E

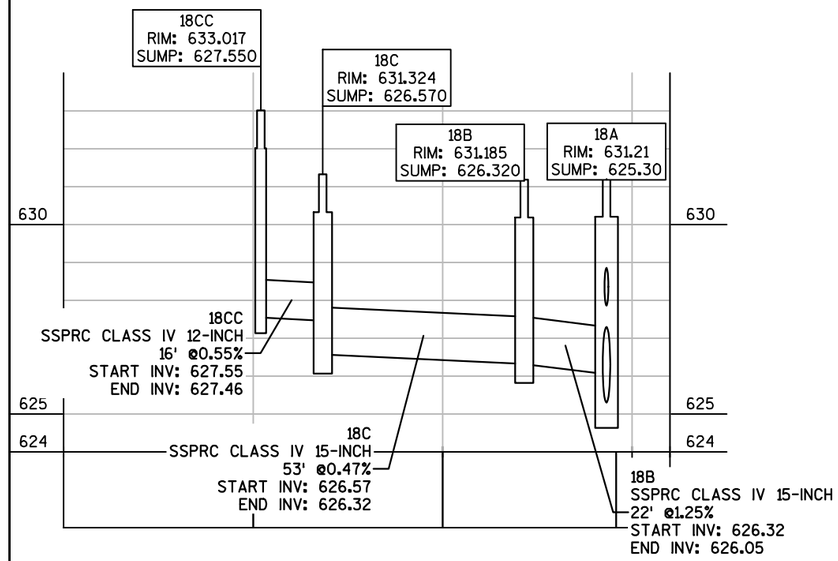


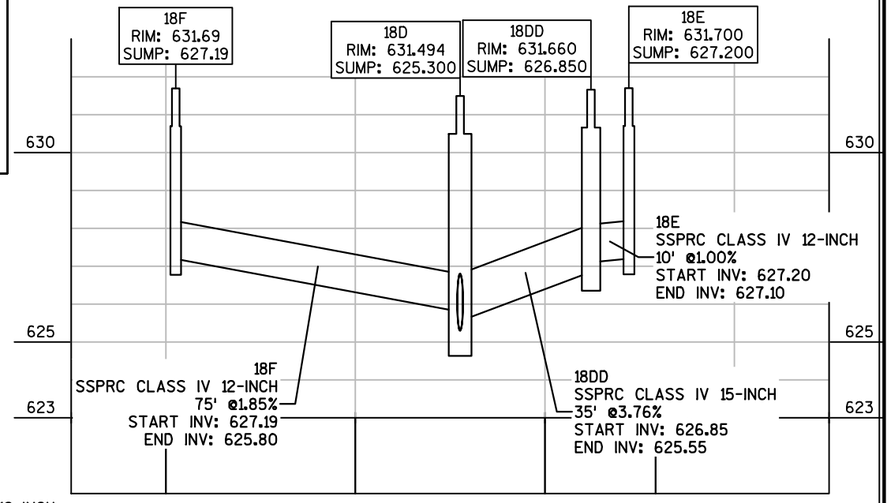


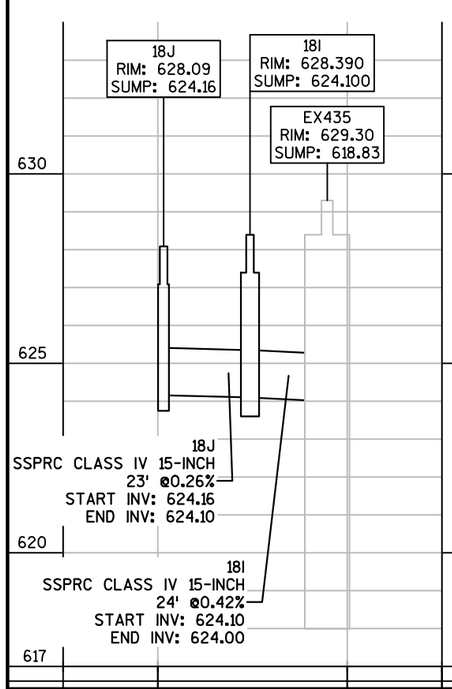


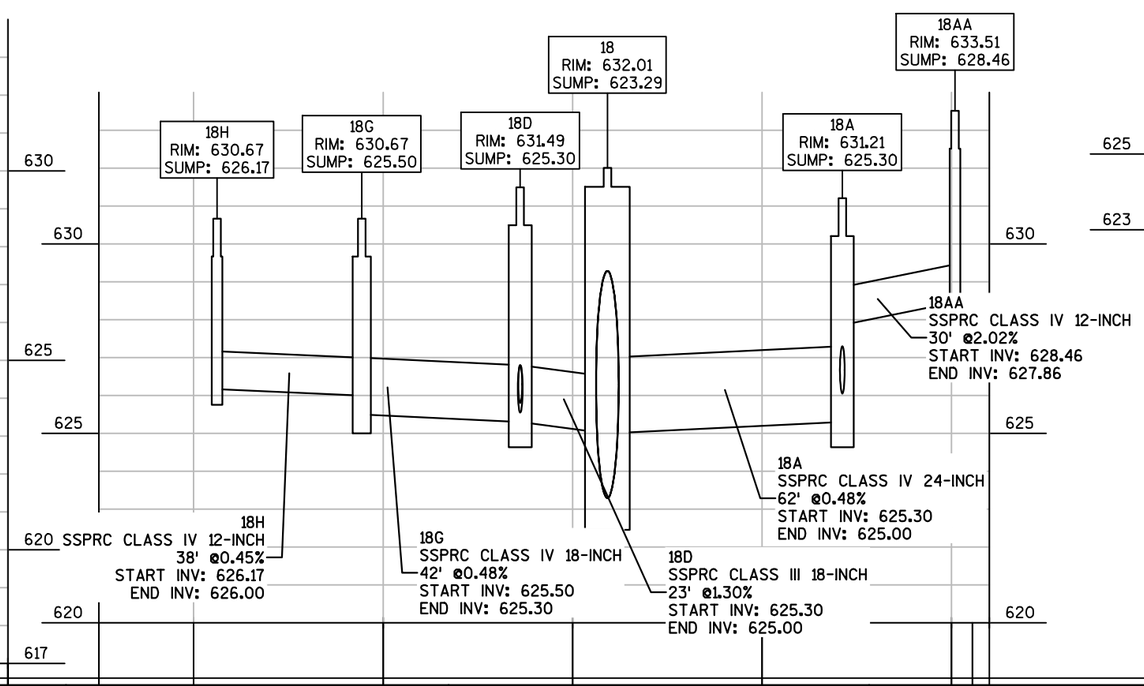
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 112	E



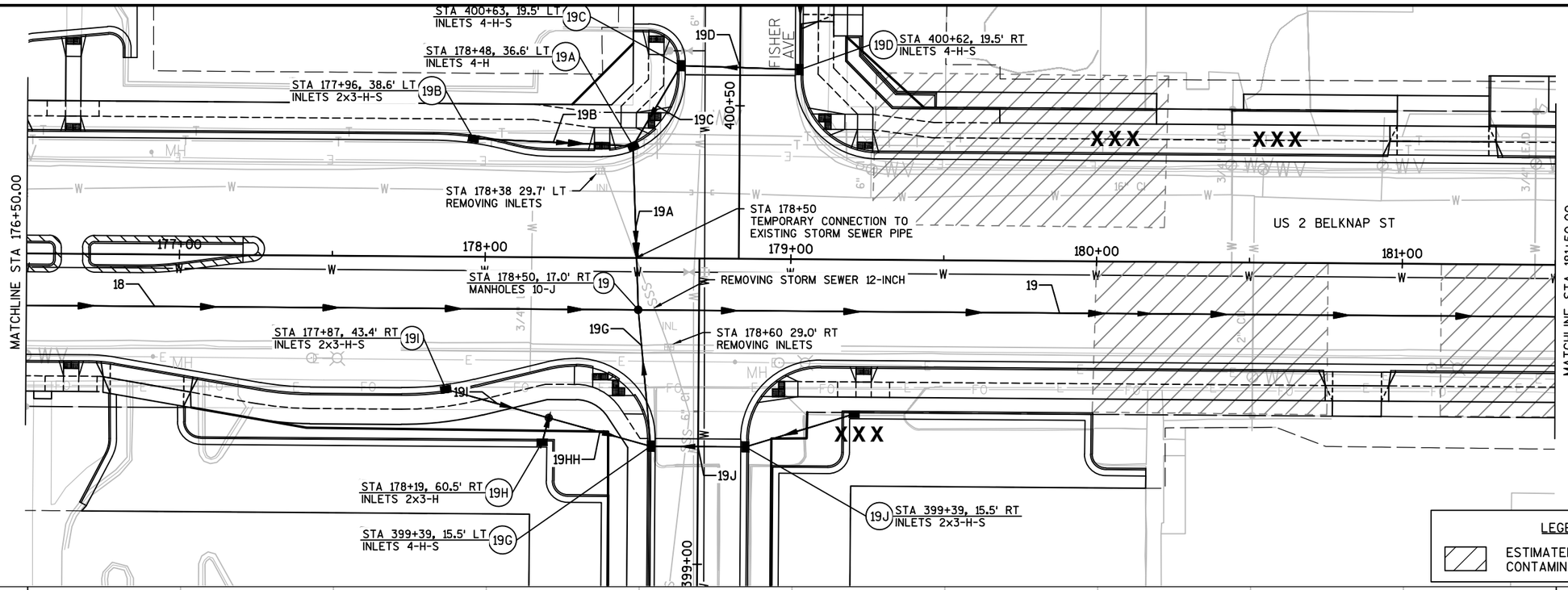


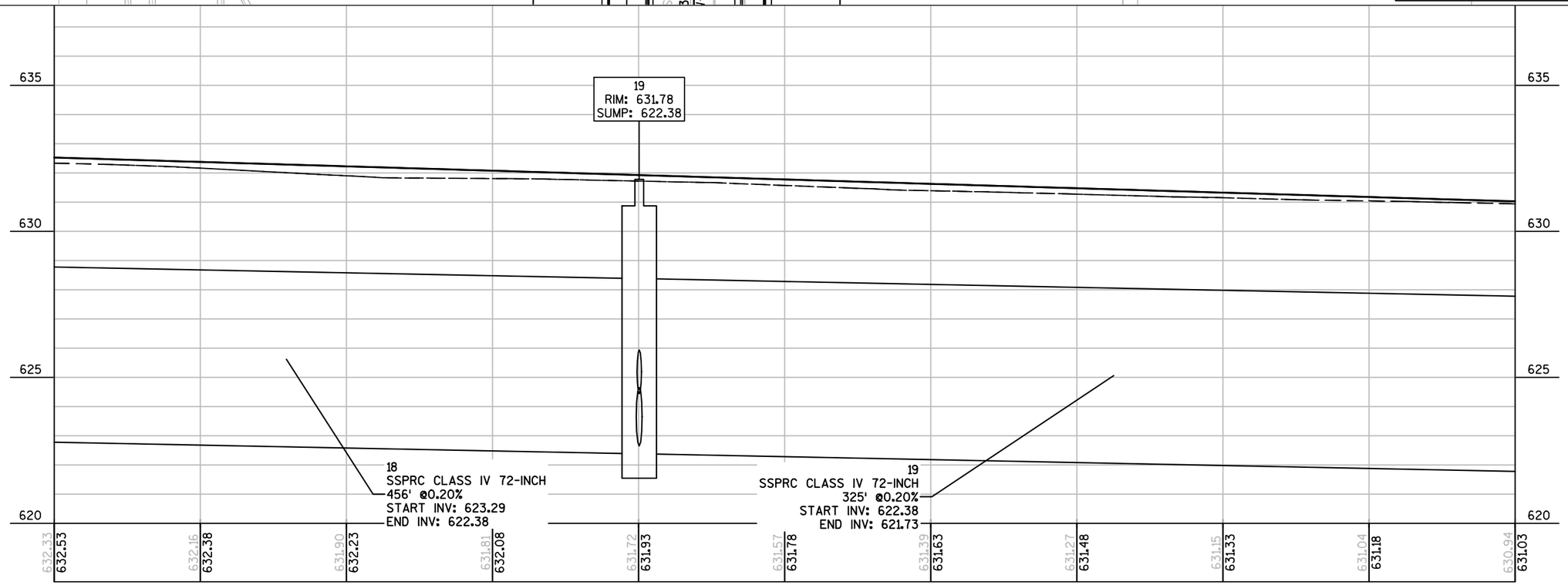




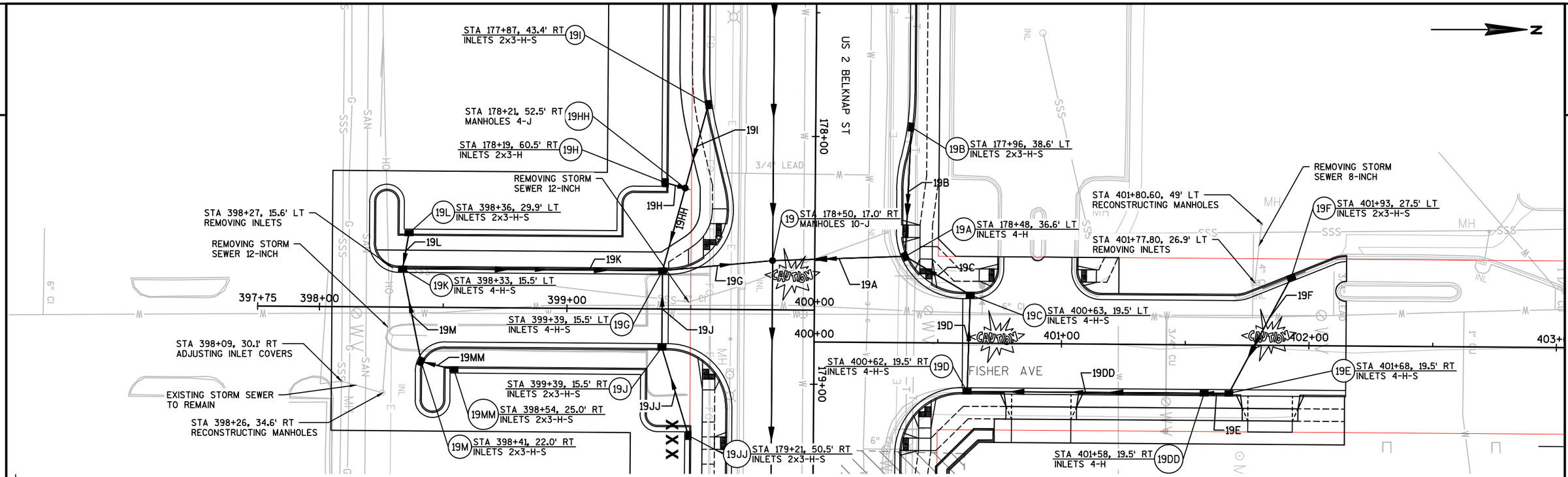


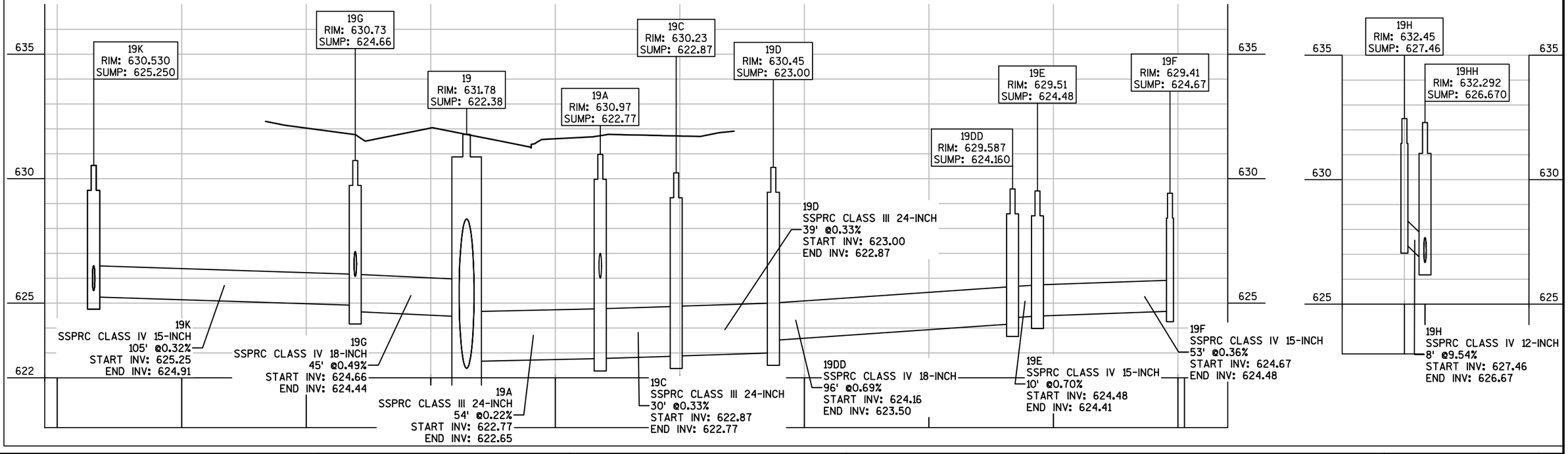
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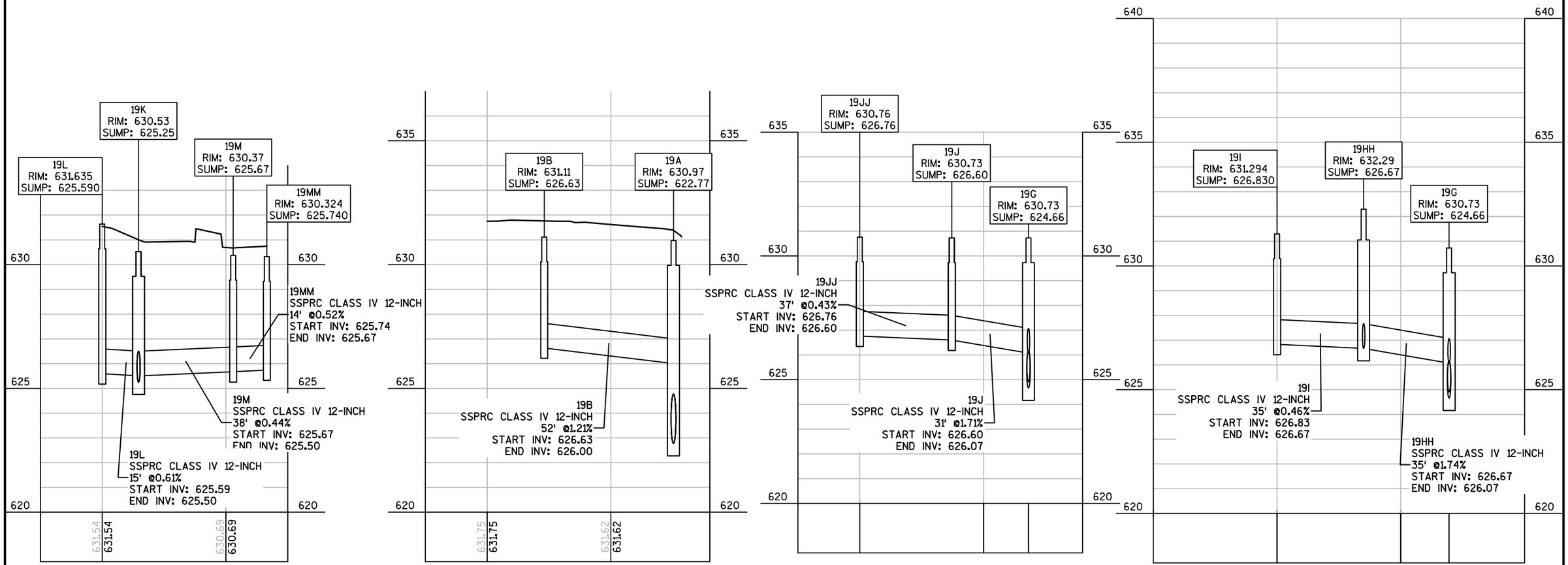


PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 114 E





PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 115	E



PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 116	E

2

STA 410+62, 19.0' LT
INLETS 4-H-S
21A

STA 410+62, 20.0' RT
INLETS 4-H-S
21C

20B STA 181+63, 34.5' LT
INLETS 2x3-H

STA 182+34 55.0' LT
REMOVING INLETS

410+50

20B

20A STA 181+75, 34.5' LT
INLETS 2x3-H-S

REMOVING STORM
SEWER 10-INCH

21A

STA 182+48
TEMPORARY CONNECTION TO
EXISTING STORM SEWER PIPE

184+25, 17.0' RT
END STORM SEWER INSTALLATION YEAR 1
END AT NEAREST BELL END
TEMPORARY STORM SEWER PLUG
PLUG TO BE SOIL TIGHT AND
HAVE MATERIAL AND METHOD APPROVED
BY THE ENGINEER IN THE FIELD

STA 184+84, 34.5' LT
INLETS 4-H-S
22B

STA 420+64, 13.1' LT
INLETS 4-H-S
22D

22E STA 420+64, 14.1' RT
INLETS 4-H-S

MATCHLINE STA 181+50.00

20A

20 STA 181+75, 17.0' RT
MANHOLES 10-L

182+00

183+00

184+00

185+00

186+00

187+00

21 STA 182+52, 17.0' RT
MANHOLES 10-J

STA 184+74, 34.5' LT
INLETS 2x3-H
22C

22C 22B

STA 185+34, 34.5' LT
INLETS 4-H
22A

22A

STA 185+35 28.3' LT
REMOVING INLETS

REMOVING STORM
SEWER 12-INCH

US 2 BELKNAP ST

MATCHLINE STA 187+50.00

STA 185+47
TEMPORARY CONNECTION TO
EXISTING STORM SEWER PIPE

22 STA 185+53, 17.0' RT
MANHOLES 10-L

20C STA 182+04 29.4' RT
REMOVING INLETS

20D

STA 182+55.50 29.7' RT
REMOVING MANHOLES

21G

22J

22I STA 184+84, 34.5' RT
INLETS 4-H-D

22H

STA 185+58 29.7' RT
REMOVING INLETS

REMOVING STORM
SEWER 10-INCH

22JJ

22I

22K

REMOVING STORM
SEWER 12-INCH

20C STA 181+75, 34.5' RT
INLETS 2x3-H-S

20D STA 181+63, 34.5' RT
INLETS 2x3-H

21H

21G STA 409+43, 21.3' RT
INLETS 4-H

STA 184+64, 34.5' RT
INLETS 2x3-H
22JJ

22J STA 184+74, 34.5' RT
INLETS 2x3-H

22H STA 185+59, 34.5' RT
INLETS 4-H

STA 186+23 56.6' RT
SEALING PIPES

REMOVING STORM
SEWER 10-INCH

22K STA 185+59, 59.8' RT
APRON ENDWALLS FOR CPRC 15-INCH

STA 409+38, 19.1' LT
INLETS 2x3-H
21H

CATLIN AVE

409+00

LEGEND

ESTIMATED EXTENT OF SOIL
CONTAMINATION IN THE R/W

20
RIM: 630.80
SUMP: 621.73

21
RIM: 631.06
SUMP: 621.57

22
RIM: 630.22
SUMP: 620.97

630
625
620
616

20
SSPRC CLASS IV 72-INCH
77' @0.21%
START INV: 621.73
END INV: 621.57

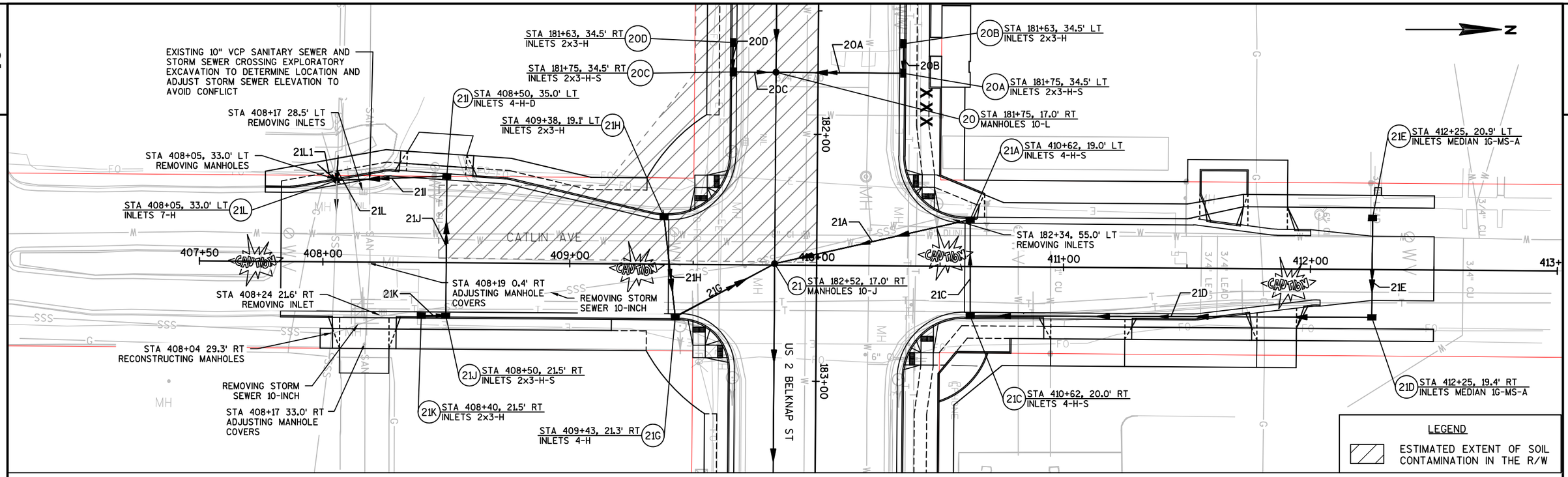
21
SSPRC CLASS IV 72-INCH
300' @0.20%
START INV: 621.57
END INV: 620.97

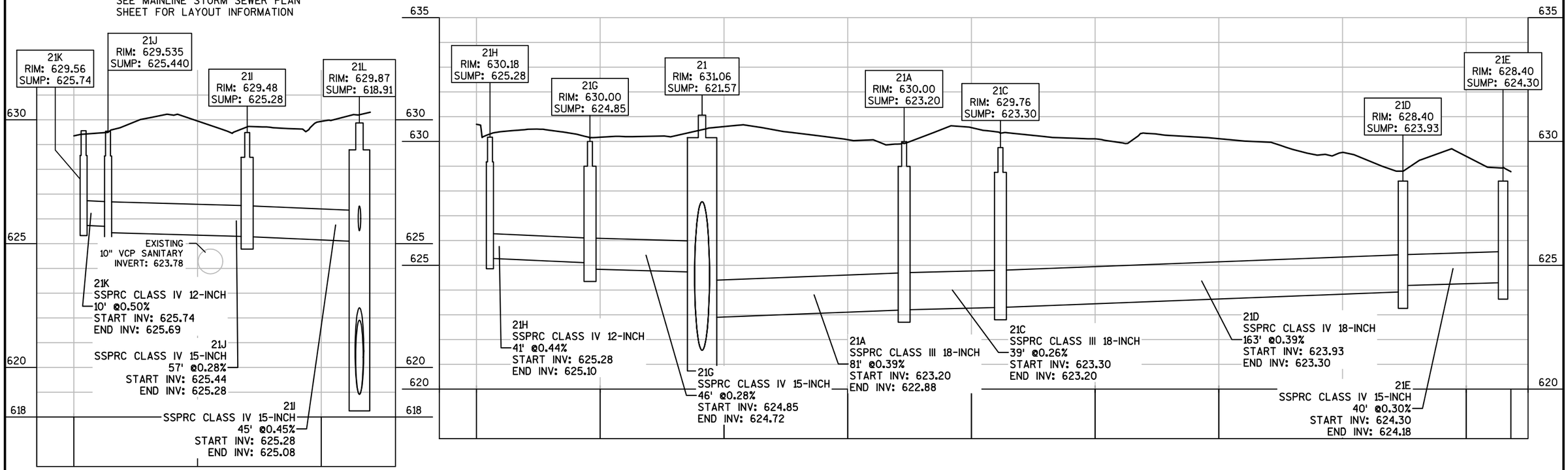
EXISTING SANITARY MAIN

22
SSPRC CLASS IV 72-INCH
343' @0.36%
START INV: 620.97
END INV: 619.75

630.94	630.83	630.66	630.68	630.53	630.37	630.22	630.08	630.00	629.93	629.83	629.71	629.62
631.03	631.03	631.20	631.24	630.96	630.61	630.27	630.21	630.36	630.50	630.48	630.33	630.17

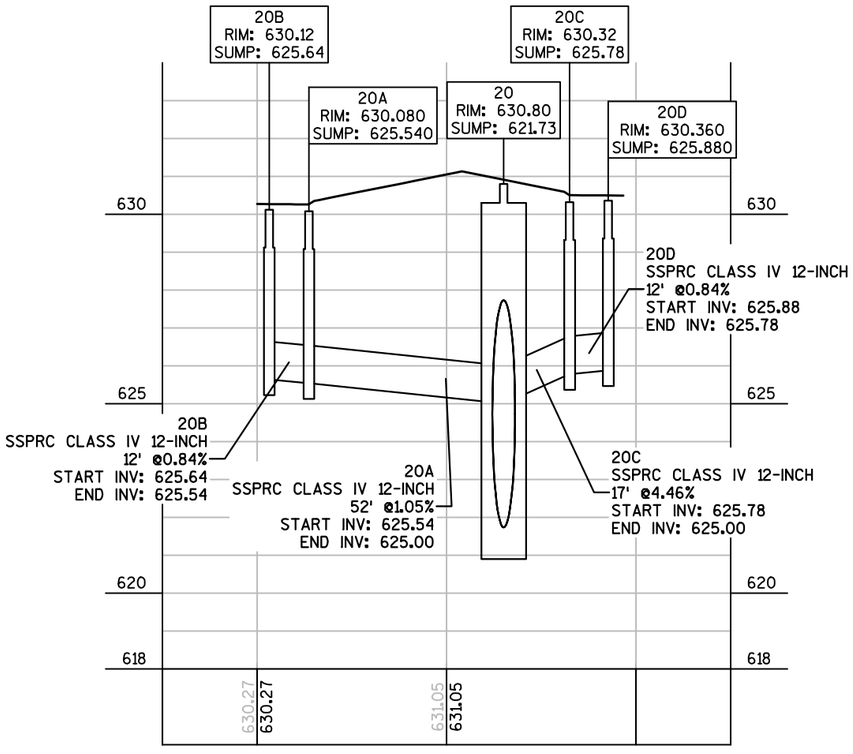
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 117	E

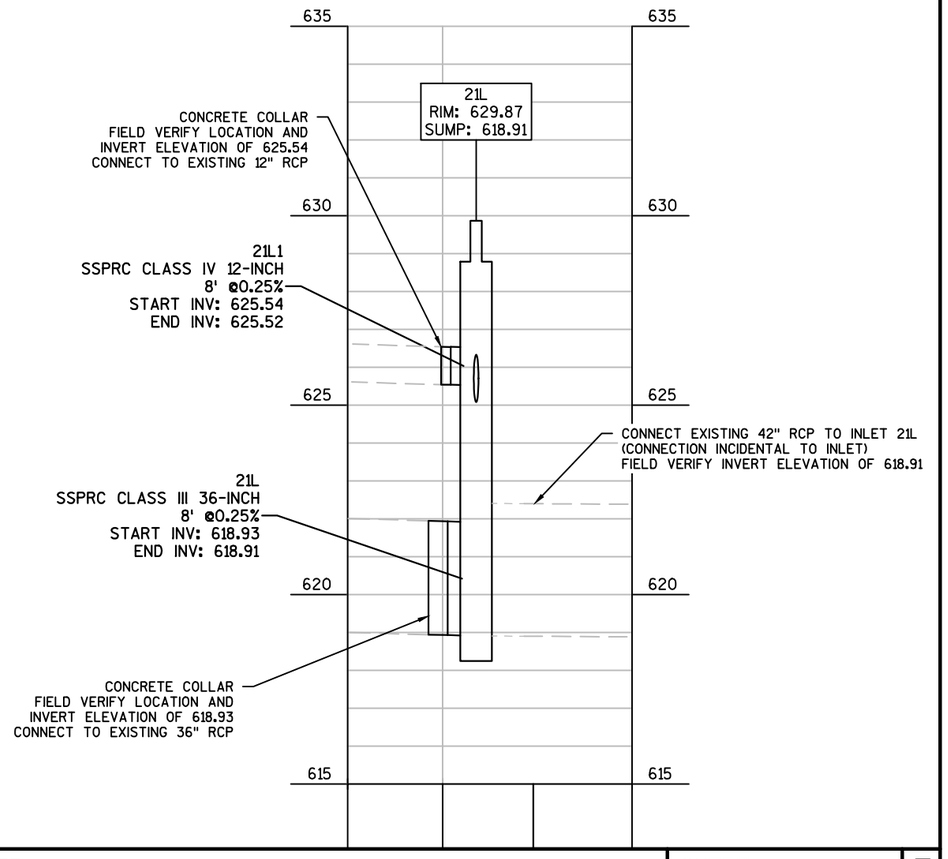


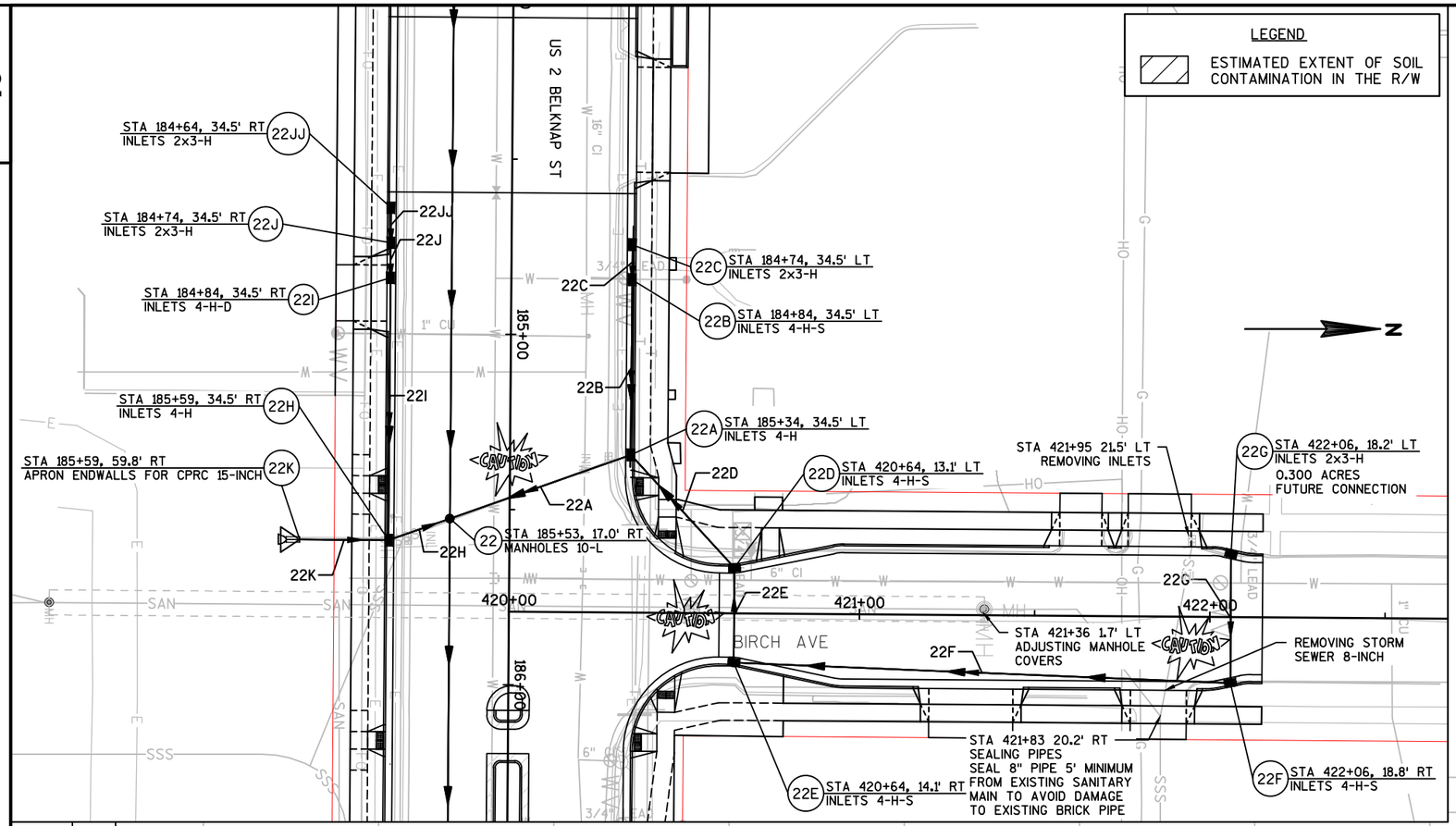


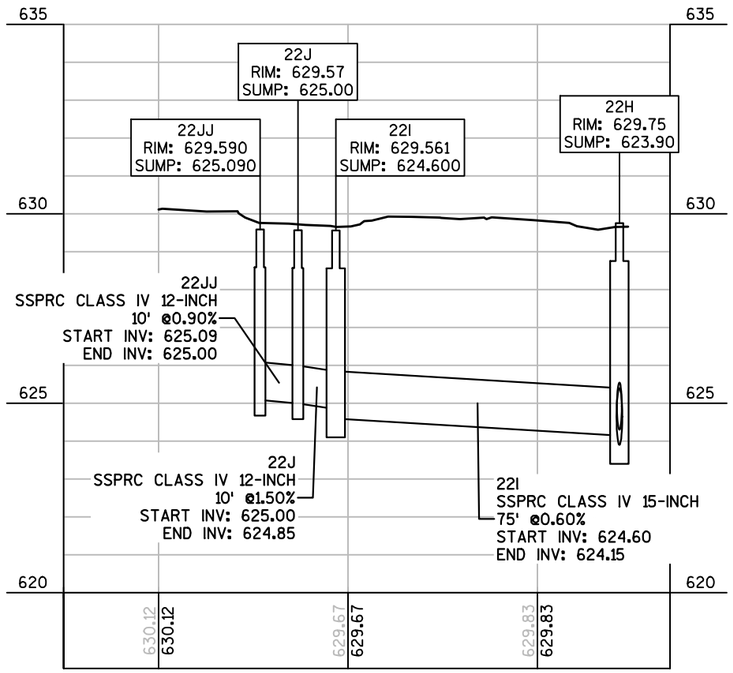
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 118	E

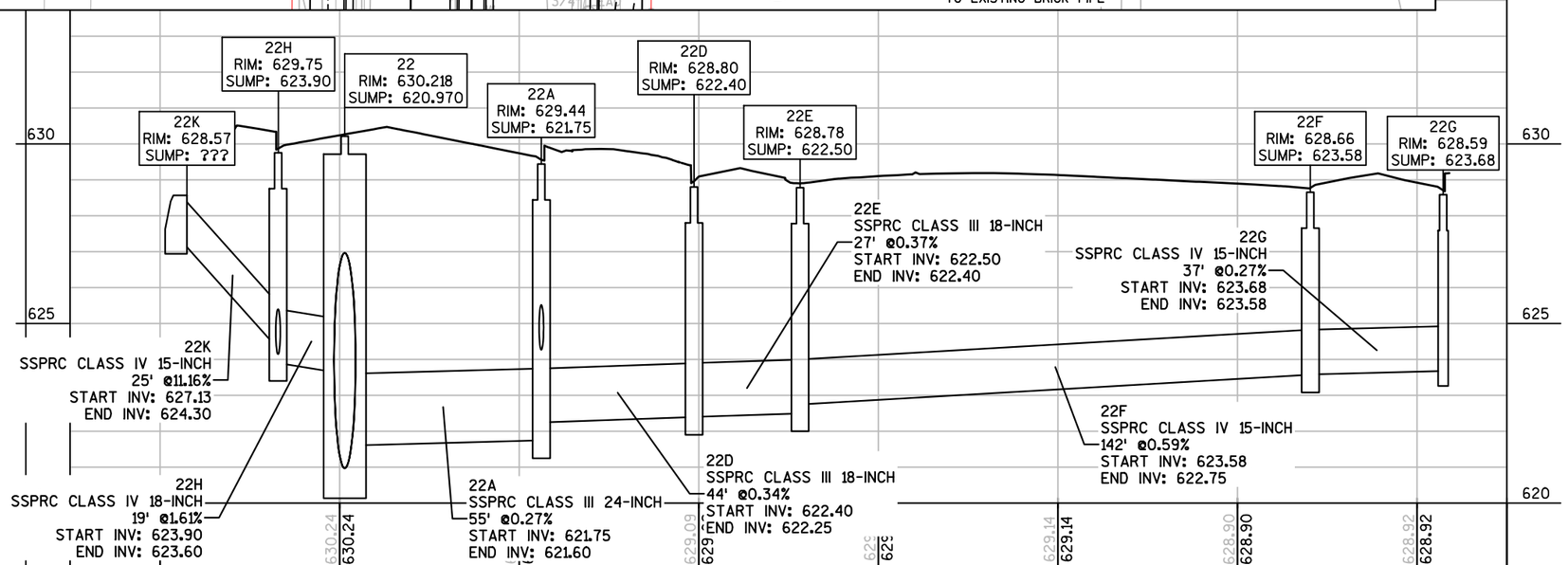
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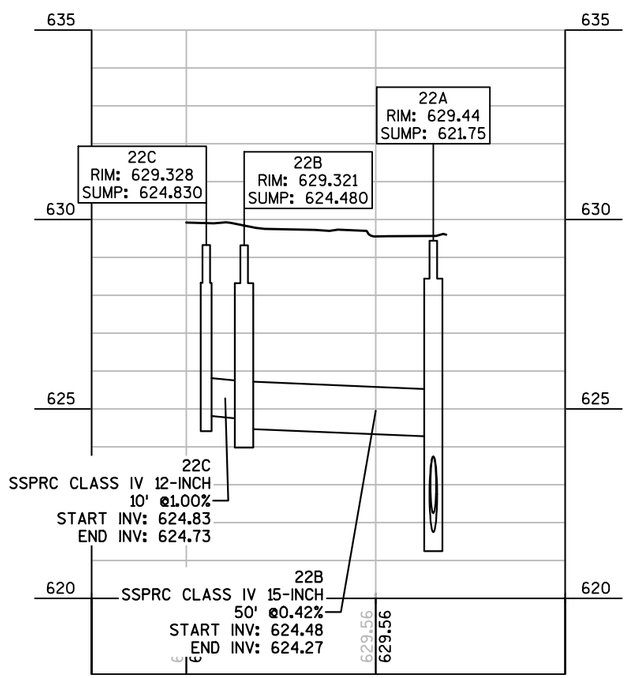

20B
RIM: 630.12
SUMP: 625.64
20C
RIM: 630.32
SUMP: 625.78
20A
RIM: 630.080
SUMP: 625.540
20
RIM: 630.80
SUMP: 621.73
20D
RIM: 630.360
SUMP: 625.880
630
625
620
618
20D
SSPRC CLASS IV 12-INCH
12' @0.84%
START INV: 625.88
END INV: 625.78
20B
SSPRC CLASS IV 12-INCH
12' @0.84%
START INV: 625.64
END INV: 625.54
20A
SSPRC CLASS IV 12-INCH
52' @1.05%
START INV: 625.54
END INV: 625.00
20C
SSPRC CLASS IV 12-INCH
17' @4.46%
START INV: 625.78
END INV: 625.00
630.27
630.27
631.05
631.05


635
21L
RIM: 629.87
SUMP: 618.91
CONCRETE COLLAR
FIELD VERIFY LOCATION AND
INVERT ELEVATION OF 625.54
CONNECT TO EXISTING 12" RCP
630
625
620
615
21L1
SSPRC CLASS IV 12-INCH
8' @0.25%
START INV: 625.54
END INV: 625.52
CONNECT EXISTING 42" RCP TO INLET 21L
(CONNECTION INCIDENTAL TO INLET)
FIELD VERIFY INVERT ELEVATION OF 618.91
21L
SSPRC CLASS III 36-INCH
8' @0.25%
START INV: 618.93
END INV: 618.91
CONCRETE COLLAR
FIELD VERIFY LOCATION AND
INVERT ELEVATION OF 618.93
CONNECT TO EXISTING 36" RCP


LEGEND
ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W
US 2 BELKNAP ST
BIRCH AVE
N
STA 184+64, 34.5' RT
INLETS 2x3-H
22JJ
STA 184+74, 34.5' RT
INLETS 2x3-H
22J
STA 184+84, 34.5' RT
INLETS 4-H-D
22I
STA 185+59, 34.5' RT
INLETS 4-H
22H
STA 185+59, 59.8' RT
APRON ENDWALLS FOR CPRC 15-INCH
22K
STA 185+53, 17.0' RT
MANHOLES 10-L
22
22C
STA 184+74, 34.5' LT
INLETS 2x3-H
22B
STA 184+84, 34.5' LT
INLETS 4-H-S
22A
STA 185+34, 34.5' LT
INLETS 4-H
22D
STA 420+64, 13.1' LT
INLETS 4-H-S
22E
STA 421+95 21.5' LT
REMOVING INLETS
22G
STA 422+06, 18.2' LT
INLETS 2x3-H
0.300 ACRES
FUTURE CONNECTION
STA 421+36 1.7' LT
ADJUSTING MANHOLE COVERS
22F
REMOVING STORM SEWER 8-INCH
STA 421+83 20.2' RT
SEALING PIPES
SEAL 8" PIPE 5' MINIMUM FROM EXISTING SANITARY MAIN TO AVOID DAMAGE TO EXISTING BRICK PIPE
STA 420+64, 14.1' RT
INLETS 4-H-S
STA 422+06, 18.8' RT
INLETS 4-H-S
CAUTION
185+00
186+00
420+00
421+00
422+00


22J
RIM: 629.57
SUMP: 625.00
22JJ
RIM: 629.590
SUMP: 625.090
22I
RIM: 629.561
SUMP: 624.600
22H
RIM: 629.75
SUMP: 623.90
22JJ
SSPRC CLASS IV 12-INCH
10' @0.90%
START INV: 625.09
END INV: 625.00
22J
SSPRC CLASS IV 12-INCH
10' @1.50%
START INV: 625.00
END INV: 624.85
22I
SSPRC CLASS IV 15-INCH
75' @0.60%
START INV: 624.60
END INV: 624.15
635
630
625
620
630.12
629.67
629.83


22H
RIM: 629.75
SUMP: 623.90
22
RIM: 630.218
SUMP: 620.970
22A
RIM: 629.44
SUMP: 621.75
22D
RIM: 628.80
SUMP: 622.40
22E
RIM: 628.78
SUMP: 622.50
22F
RIM: 628.66
SUMP: 623.58
22G
RIM: 628.59
SUMP: 623.68
22K
RIM: 628.57
SUMP: ???
22K
SSPRC CLASS IV 15-INCH
25' @11.16%
START INV: 627.13
END INV: 624.30
22H
SSPRC CLASS IV 18-INCH
19' @1.61%
START INV: 623.90
END INV: 623.60
22A
SSPRC CLASS III 24-INCH
55' @0.27%
START INV: 621.75
END INV: 621.60
22D
SSPRC CLASS III 18-INCH
44' @0.34%
START INV: 622.40
END INV: 622.25
22E
SSPRC CLASS III 18-INCH
27' @0.37%
START INV: 622.50
END INV: 622.40
22G
SSPRC CLASS IV 15-INCH
37' @0.27%
START INV: 623.68
END INV: 623.58
22F
SSPRC CLASS IV 15-INCH
142' @0.59%
START INV: 623.58
END INV: 622.75
635
630
625
620
630.24
629.09
629.14
628.90
628.92


22A
RIM: 629.44
SUMP: 621.75
22C
RIM: 629.328
SUMP: 624.830
22B
RIM: 629.321
SUMP: 624.480
22C
SSPRC CLASS IV 12-INCH
10' @1.00%
START INV: 624.83
END INV: 624.73
22B
SSPRC CLASS IV 15-INCH
50' @0.42%
START INV: 624.48
END INV: 624.27
635
630
625
620
629.56

STA 430+51, 5.2' LT
INLETS 4-H-S
23C
STA 188+29, 47.0' LT
INLETS 3-C
23B
REMOVING STORM SEWER 8-INCH
STA 188+35, 34.5' LT
INLETS 5-H
23A
STA 188+29 29.1' LT
REMOVING INLETS
23E
CYPRESS AVE
STA 430+67, 22.9' RT
INLETS 4-H-S
STA 450+61, 20.5' LT
INLETS 2x3-H-S
25A
STA 191+18 28.5' LT
REMOVING INLETS
POPLAR AVE
25B
STA 450+61, 18.5' RT
INLETS 2x3-H-S
30D
STA 193+02, 34.5' LT
INLETS 2x3-H
25
STA 450+61, 0.0' LT
MANHOLES 10-J
STA 192+92, 34.5' LT
INLETS 2x3-H-S
30C
30D
MATCHLINE STA 187+50.00
MATCHLINE STA 193+50.00
STA 188+76
TEMPORARY CONNECTION TO
EXISTING STORM SEWER PIPE
US 2 BELKNAP ST
STA 191+17, 34.5' LT
INLETS 2x3-H
24A
REMOVING STORM SEWER 12-INCH
STA 191+22
TEMPORARY CONNECTION TO
EXISTING STORM SEWER PIPE
188+00
189+00
190+00
191+00
192+00
193+00
440+00
450+00
REMOVING STORM SEWER 12-INCH
STA 188+96, 17.0' RT
MANHOLES 10-J
23
REMOVING STORM SEWER 12-INCH
STA 191+25, 17.0' RT
MANHOLES 10-J
24
STA 188+15, 34.5' RT
INLETS 2x3-H
23I
EXISTING STORM SEWER TO REMAIN
EX550
STA 191+10, 34.5' RT
INLETS 2x3-H-D
24C
24B
EX580
30B
30A
30
STA 188+54, 34.5' RT
INLETS 2x3-H
23H
STA 188+92.70, 46.4' RT
ADJUSTING MANHOLE COVERS
STA 439+44 18.4' LT
REMOVING INLETS
55A
55B
55C
55D
MORTORELLI DRIVE
439+00
STA 439+29, 20.5' LT
INLETS 4-H-S
55B
STA 439+19, 20.5' LT
INLETS 2x3-H
55C
EX550
STA 189+22, 29.1' RT
TYPE J CASTING
RECONSTRUCTING MANHOLES
55A
STA 439+29, 18.5' RT
INLETS 4-H-S
STA 191+27, 30.4' RT
TYPE J CASTING
RECONSTRUCTING MANHOLES
EX580
STA 191+30.40, 49.5' RT
ADJUSTING MANHOLE COVERS
24D
129706
629.624
IP
129707
629.484
129708
629.000
BY AKA 67202
STA 191+77.43, 48.7' RT
ADJUSTING MANHOLE COVERS
24B
STA 191+40, 34.5' RT
INLETS 2x3-H
24D
STA 191+36, 47.5' RT
INLETS 2x3-H-S
STA 192+82, 34.5' RT
INLETS 2x3-H
30B
30
STA 193+04, 34.5' RT
INLETS 4-H
30A
STA 192+92, 34.5' RT
INLETS 4-H

LEGEND
ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

23
RIM: 629.66
SUMP: 619.75
EX550
RIM: 629.234
SUMP: 617.200
EX580
RIM: 628.56
SUMP: 617.20
24
RIM: 628.835
SUMP: 618.930
25
RIM: 627.961
SUMP: 618.500
30A
RIM: 627.88
SUMP: 622.35
30B
RIM: 627.884
SUMP: 623.380
30
RIM: 627.885
SUMP: 622.000

23
SSPRC CLASS IV 72-INCH
229' @0.36%
START INV: 619.75
END INV: 618.93

24
SSPRC CLASS IV 72-INCH
90' @0.48%
START INV: 618.93
END INV: 618.50

30B
SSPRC CLASS IV 12-INCH
10' @7.80%
START INV: 623.38
END INV: 622.60

30A
SSPRC CLASS IV 15-INCH
12' @1.25%
START INV: 622.40
END INV: 622.25

22
SSPRC CL IV 72-INCH
343' @0.36%
START INV: 620.97
END INV: 619.75

EX550
SSPRC CLASS III 48-INCH
205' @0.00%
START INV: 617.20
END INV: 617.20

EX580
SSPRC CLASS III 48-INCH
292' @0.23%
START INV: 617.20
END INV: 616.53

30
SSPRC CLASS IV 18-INCH
115' @0.43%
START INV: 622.00
END INV: 621.50

630
625
620
615

629.62 630.17 629.56 630.01 629.38 629.86 629.35 629.70 629.18 629.54 629.12 629.38 629.00 629.22 628.89 629.06 628.85 628.91 628.77 628.75 628.68 628.59 628.61 628.51 628.53 628.65

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2

N

STA 188+15, 34.5' RT
INLETS 2x3-H
23I

STA 188+54, 34.5' RT
INLETS 2x3-H
23H

STA 439+55 51.1' LT
ADJUSTING MANHOLE COVERS

STA 439+54 23.2' LT
ADJUSTING MANHOLE COVERS

STA 439+44 19.7' LT
REMOVING INLETS

STA 439+29, 20.5' LT
INLETS 4-H-S
55B

STA 439+19, 20.5' LT
INLETS 2x3-H
55C

STA 188+96, 17.0' RT
MANHOLES 10-J
23

REMOVING STORM SEWER 12-INCH

MORTORELLI DRIVE

STA 439+41 8.0' RT
REMOVING MANHOLES
55A

55D

STA 438+72, 32.5' RT
APRON ENDWALLS FOR CPRC 12-INCH
55D

STA 439+29, 18.5' RT
INLETS 4-H-S
55A

REMOVING STORM SEWER 12-INCH

US 2 BELKNAP ST

188+00
430+00
437+50
438+00
439+00
440+00

REMOVING STORM SEWER 12-INCH

EX550
STA 189+22, 29.1' RT
TYPE J CASTING
RECONSTRUCTING MANHOLES

STA 188+35, 34.5' LT
INLETS 5-H
23A

STA 188+29, 47.0' LT
INLETS 3-C
23B

STA 430+59, 44.8' 'LT
ADJUSTING INLET COVERS
LOWER CASTING TO DRAIN AREA

STA 430+51, 5.2' LT
INLETS 4-H-S
23C

CAUTION

CYPRESS AVE

431+00

STA 431+92, 23.0' RT
INLETS 4-H-S
23EE

STA 431+75 21.5' RT
REMOVING INLET

23E

STA 430+67, 22.9' RT
INLETS 4-H-S

REMOVING STORM SEWER 6-INCH

23F

STA 431+84, 44.7' RT
RECONSTRUCTING MANHOLES

432+00

STA 432+10, 10.5' LT
INLETS 2x3-H-S
23G

23J

STA 432+51, 20.6' RT
APRON ENDWALLS FOR CPRC 12-INCH

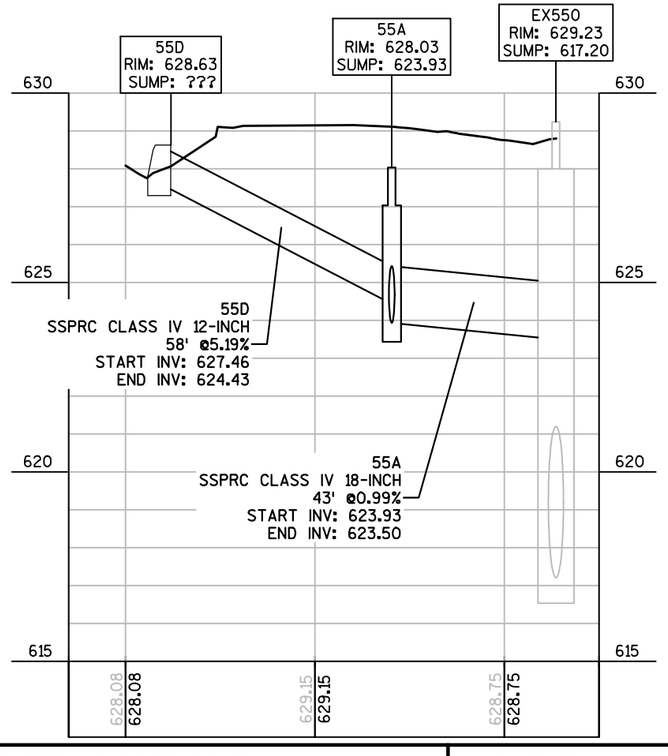
STA 432+10, 16.5' RT
INLETS 4-H-S
23F

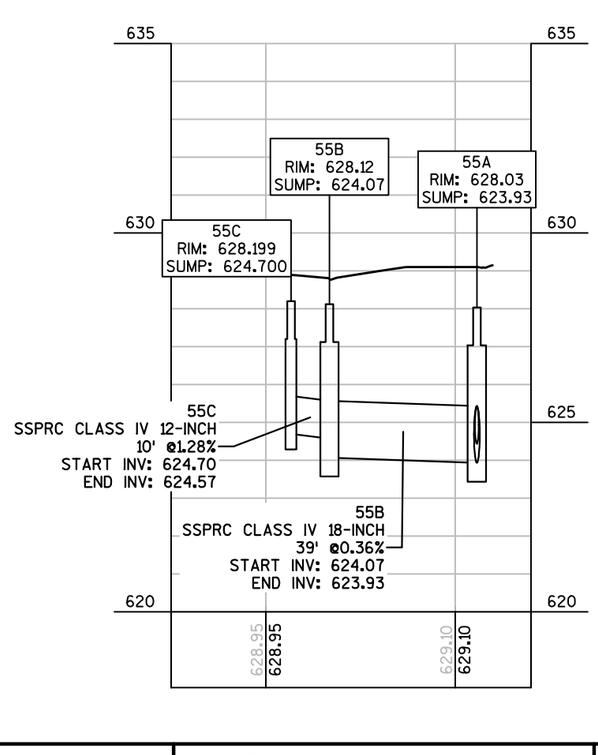
REMOVING STORM SEWER 10-INCH

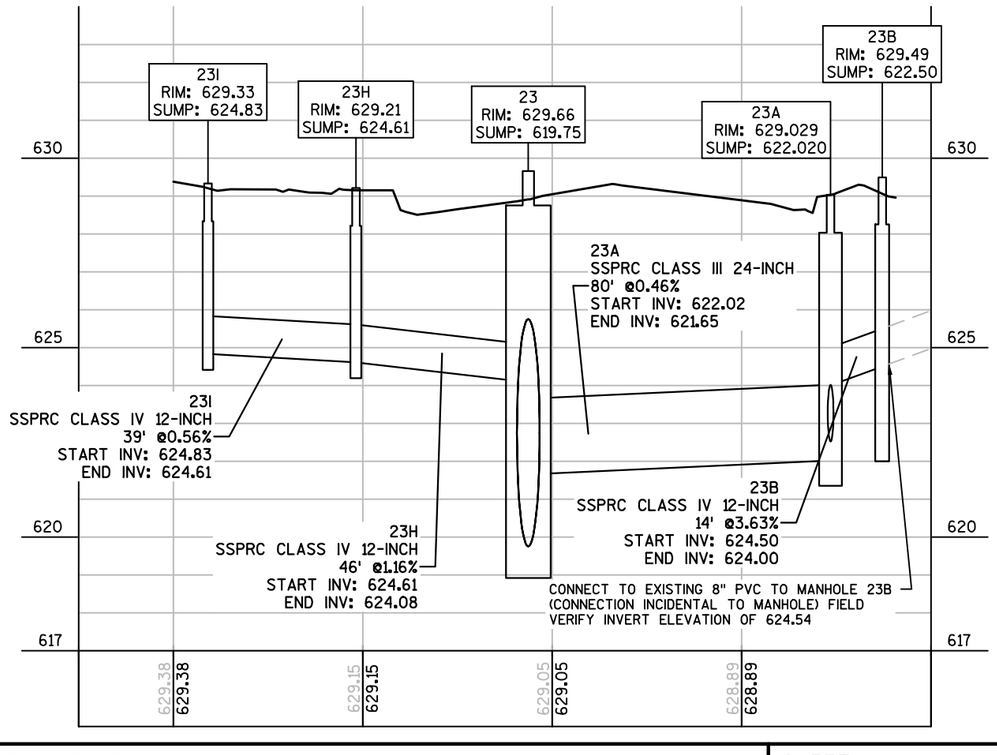
433+00

LEGEND

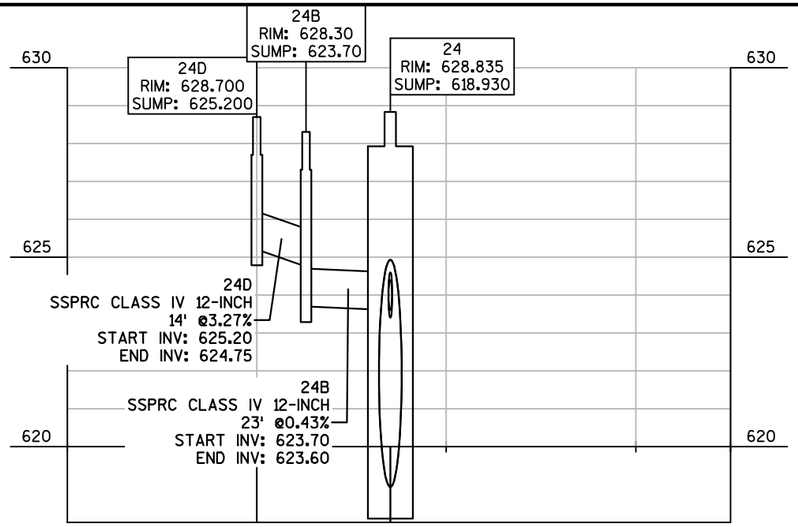
ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

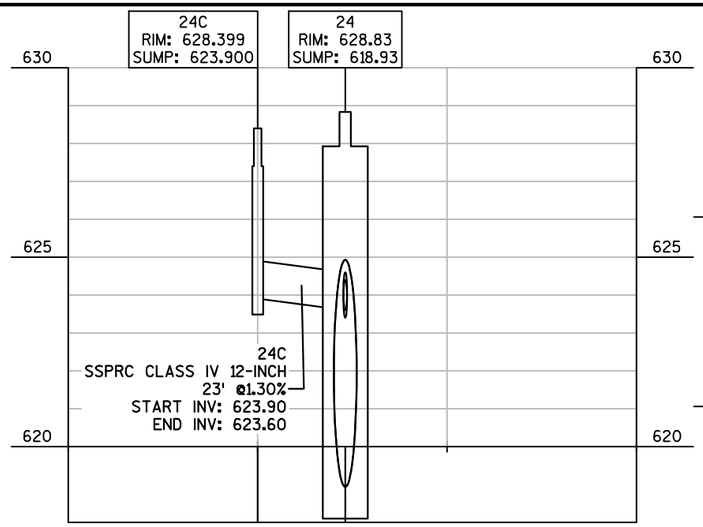


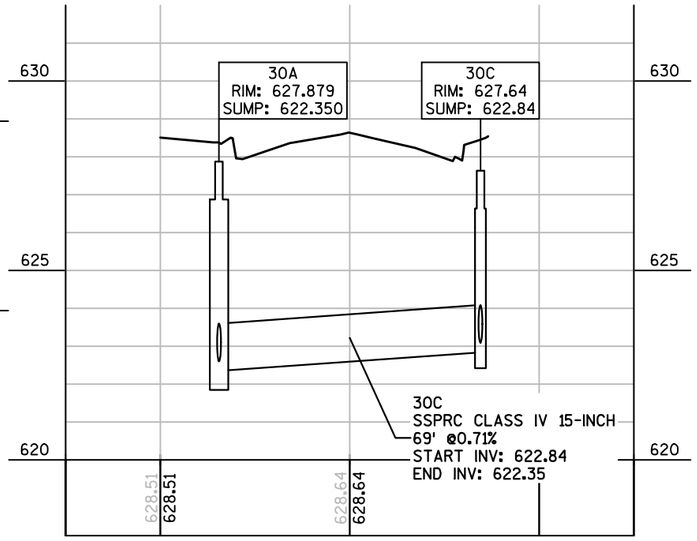


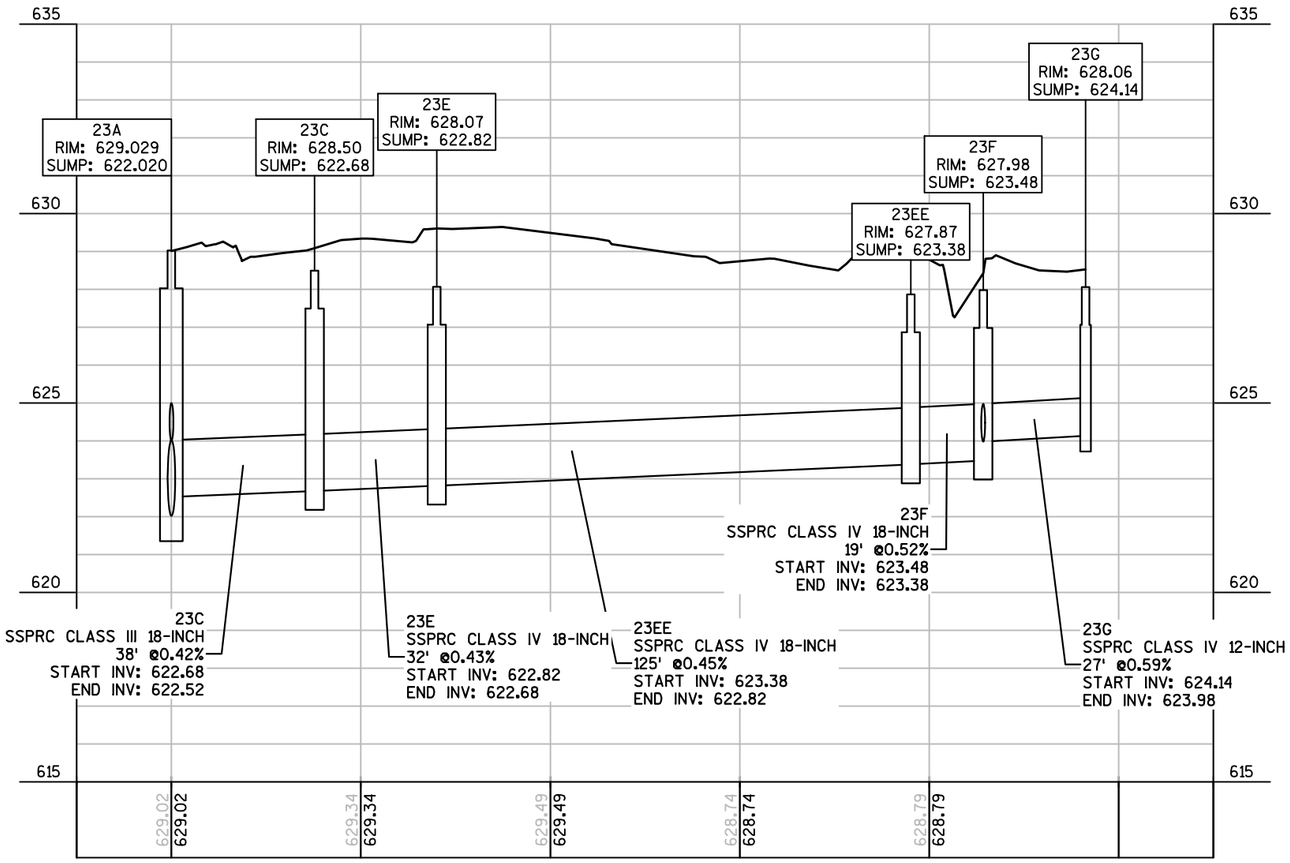


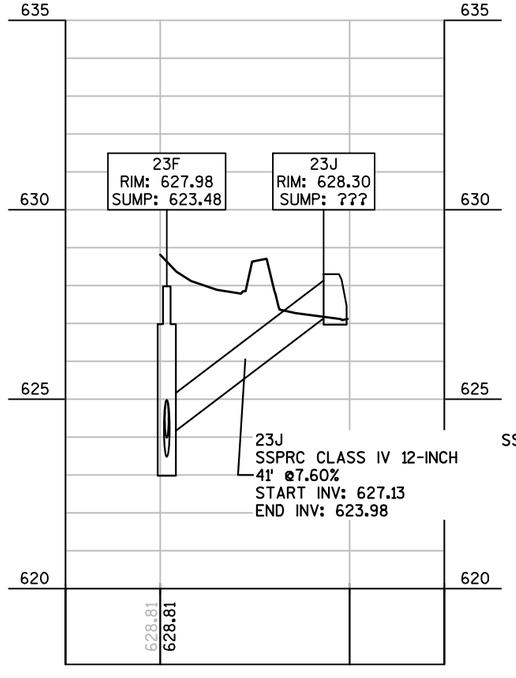
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 122	E

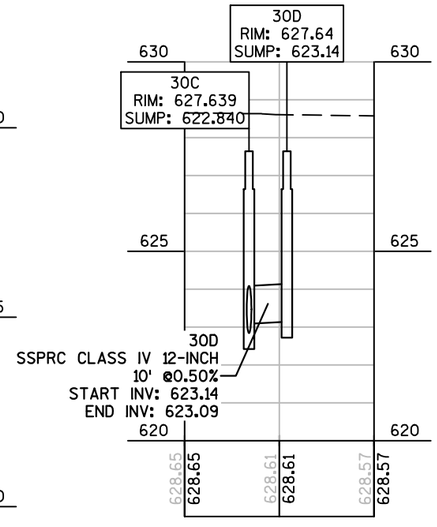

24B
RIM: 628.30
SUMP: 623.70
24D
RIM: 628.700
SUMP: 625.200
24
RIM: 628.835
SUMP: 618.930
630
625
620
24D
SSPRC CLASS IV 12-INCH
14' @3.27%
START INV: 625.20
END INV: 624.75
24B
SSPRC CLASS IV 12-INCH
23' @0.43%
START INV: 623.70
END INV: 623.60


24C
RIM: 628.399
SUMP: 623.900
24
RIM: 628.83
SUMP: 618.93
630
625
620
24C
SSPRC CLASS IV 12-INCH
23' @1.30%
START INV: 623.90
END INV: 623.60

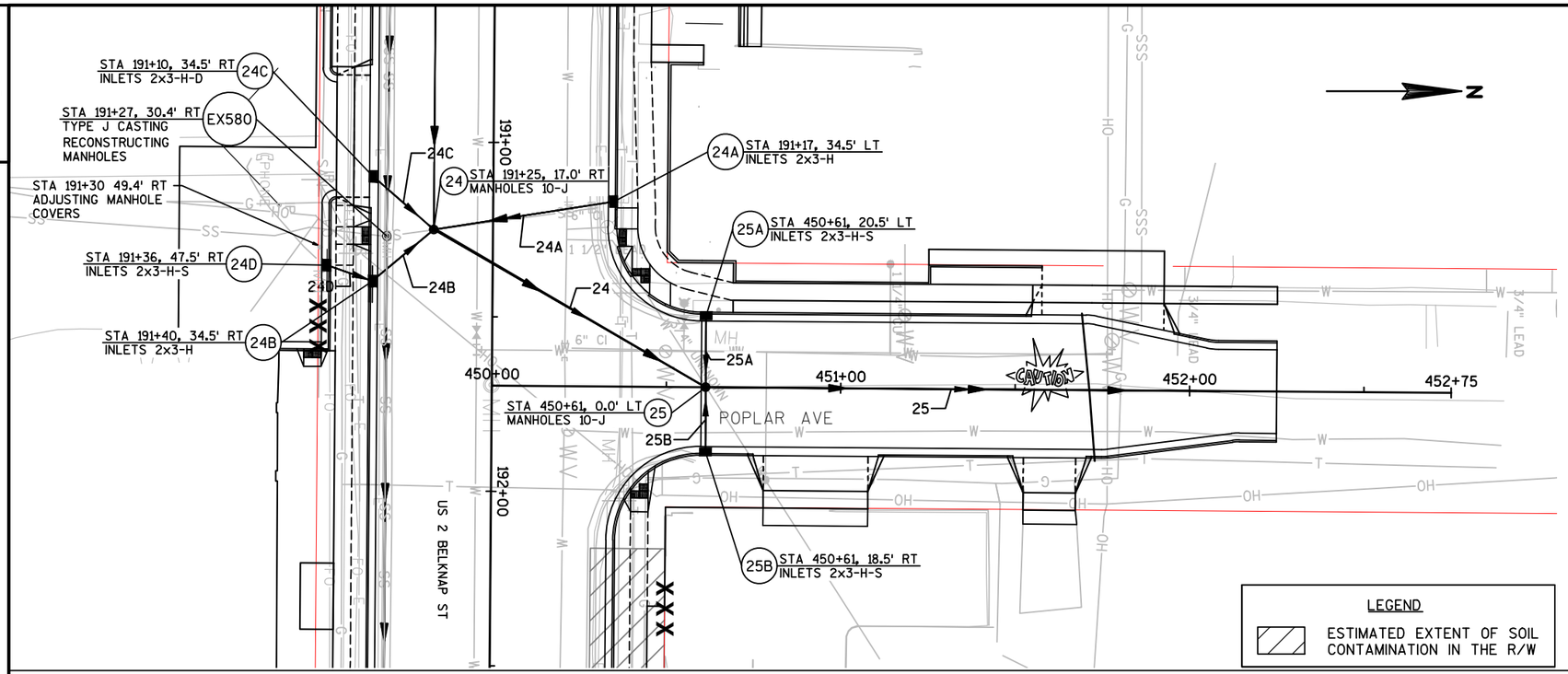

30A
RIM: 627.879
SUMP: 622.350
30C
RIM: 627.64
SUMP: 622.84
630
625
620
30C
SSPRC CLASS IV 15-INCH
69' @0.71%
START INV: 622.84
END INV: 622.35
628.51
628.51
628.64
628.64

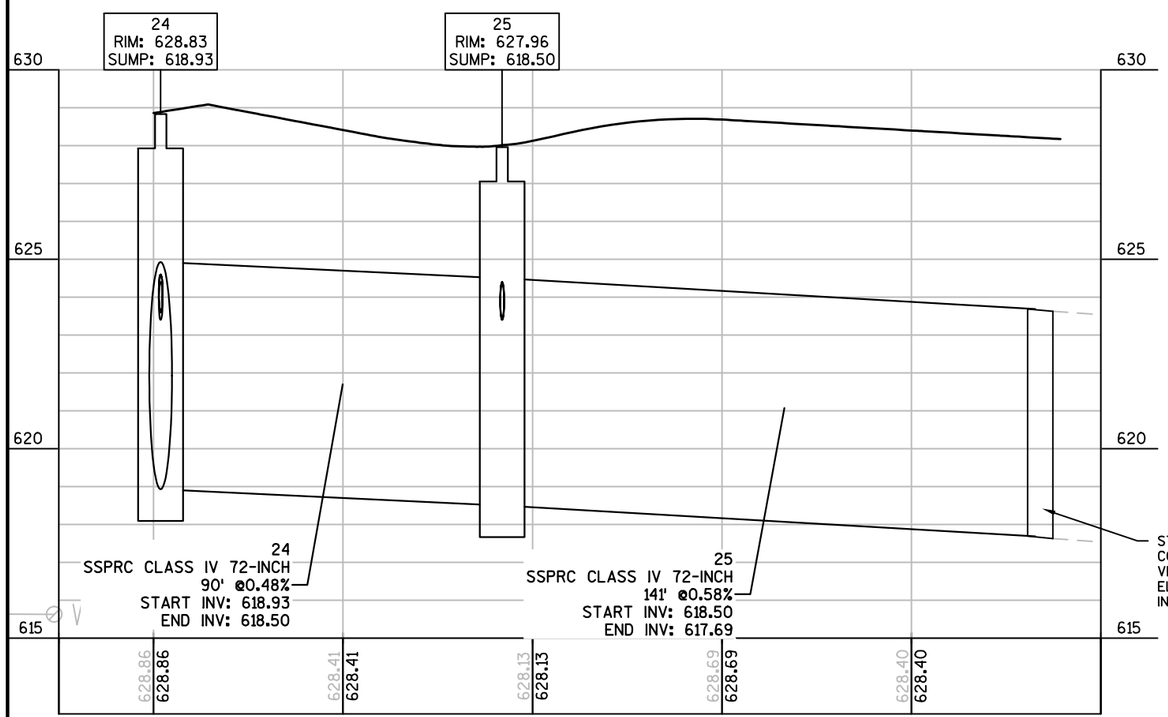

23A
RIM: 629.029
SUMP: 622.020
23C
RIM: 628.50
SUMP: 622.68
23E
RIM: 628.07
SUMP: 622.82
23G
RIM: 628.06
SUMP: 624.14
23F
RIM: 627.98
SUMP: 623.48
23EE
RIM: 627.87
SUMP: 623.38
635
630
625
620
615
23C
SSPRC CLASS III 18-INCH
38' @0.42%
START INV: 622.68
END INV: 622.52
23E
SSPRC CLASS IV 18-INCH
32' @0.43%
START INV: 622.82
END INV: 622.68
23EE
SSPRC CLASS IV 18-INCH
125' @0.45%
START INV: 623.38
END INV: 622.82
23F
SSPRC CLASS IV 18-INCH
19' @0.52%
START INV: 623.48
END INV: 623.38
23G
SSPRC CLASS IV 12-INCH
27' @0.59%
START INV: 624.14
END INV: 623.98
629.02
629.02
629.34
629.34
629.49
629.49
628.74
628.74
628.79
628.79

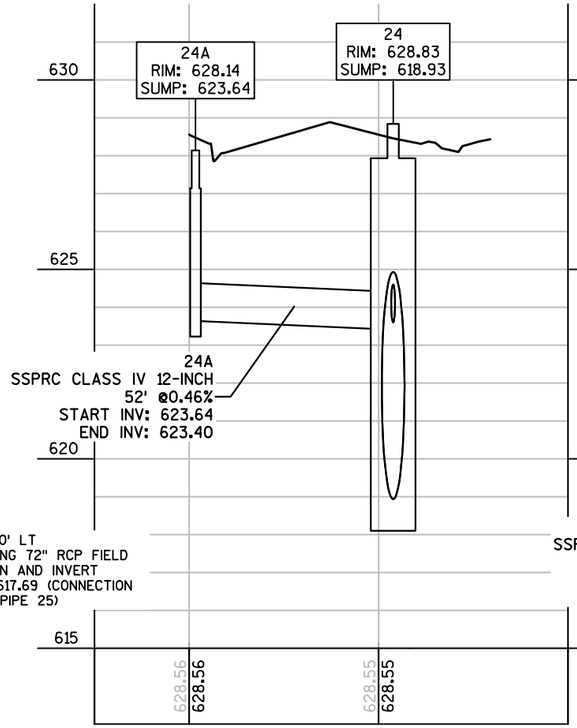

23F
RIM: 627.98
SUMP: 623.48
23J
RIM: 628.30
SUMP: ???
635
630
625
620
23J
SSPRC CLASS IV 12-INCH
41' @7.60%
START INV: 627.13
END INV: 623.98
628.81
628.81

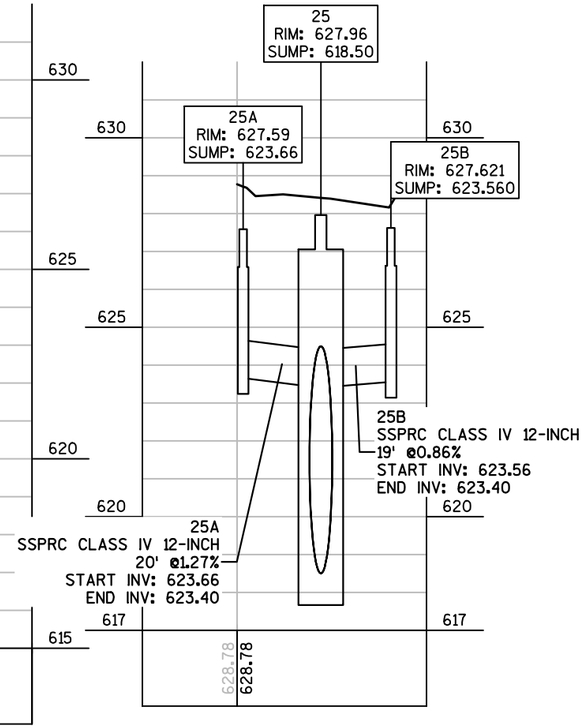

30D
RIM: 627.64
SUMP: 623.14
30C
RIM: 627.639
SUMP: 622.840
630
625
620
30D
SSPRC CLASS IV 12-INCH
10' @0.50%
START INV: 623.14
END INV: 623.09
628.65
628.65
628.61
628.61
628.57
628.57

2









PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 124	E

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

MATCHLINE STA 193+50.00

MATCHLINE STA 199+50.00

194+19 30.1' LT
REMOVING INLETS

STA 194+09
TEMPORARY CONNECTION
TO EXISTING STORM
SEWER PIPE

31 STA 194+19, 34.5' LT
INLETS 2x3-H
0.768 ACRES FUTURE CONNECTION

REMOVING STORM
SEWER 12-INCH

US 2 BELKNAP ST

REMOVING STORM
SEWER 48-INCH

590 STA 194+19, 30.1' RT
MANHOLES 7-J
REMOVING MANHOLES

32A STA 195+00, 34.5' RT
INLETS 2x3-H

32 STA 195+12, 34.5' RT
INLETS 2x3-H

EX590

EX605 STA 195+14, 49.0' RT
RECONSTRUCTING MANHOLES

EX610 STA 196+55, 54.4' RT
ADJUSTING MANHOLE COVERS

STA 460+67, 22.4' LT
INLETS 5-H

33F

33G

33G STA 460+62, 20.5' RT
INLETS 2x3-H-S

STA 197+78, 34.5' LT
INLETS 2x3-H

33E

628.00
CP

STA 198+62
TEMPORARY CONNECTION TO
EXISTING STORM SEWER PIPE

33J

33D

33J STA 198+95, 34.5' LT
INLETS 2x3-H-S

STA 198+11, 34.5' LT
MANHOLES 4-J

STA 198+66 28.3' LT
REMOVING INLETS

33C STA 198+76, 34.5' LT
INLETS 5-H

EXISTING 20"X30" SANITARY
SEWER TO REMAIN

STA 198+22.49, 10.6' RT
ADJUSTING MANHOLE COVERS

REMOVING STORM SEWER 12-INCH

STA 198+58, 28.6' RT
REMOVING INLETS

STA 198+50, 34.5' RT
INLETS 4-H

33A

33B STA 198+95, 34.5' RT
INLETS 4-H-D

33B

33M

STA 198+22, 43.7' RT
ADJUSTING MANHOLE COVERS

STA 198+12, 53.5' RT
INLETS 2x3-H-S

33K

STA 199+37, 34.5' RT
INLETS 2x3-H

33M

REMOVING STORM SEWER 12-INCH

EX630 STA 198+45, 57.0' RT
RECONSTRUCTING MANHOLES

STA 198+40, 53.5' RT
INLETS 2x3-H-S

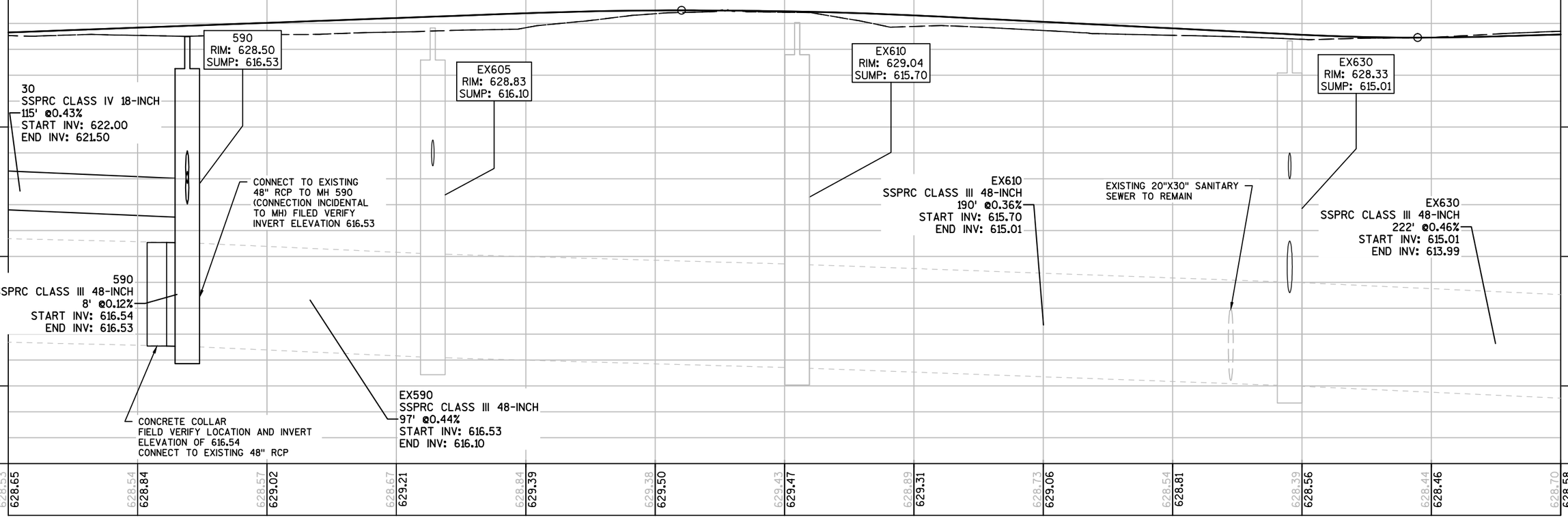
33L

REMOVING STORM
SEWER 12-INCH

31A STA 194+15, 86.2' RT
INLETS MEDIAN 1G-MS

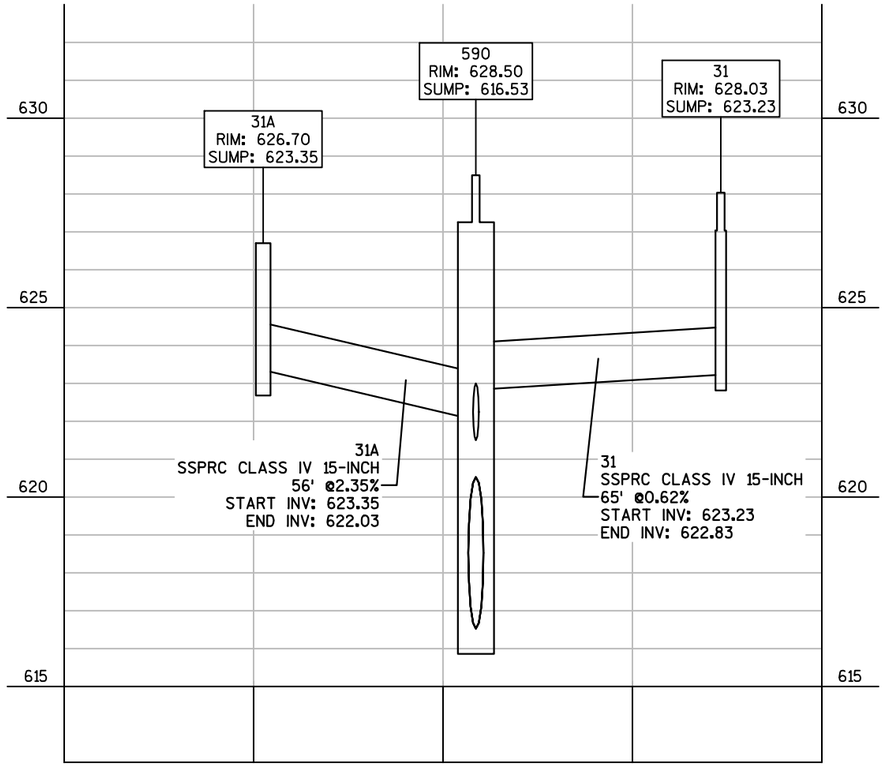
WETLAND AREA

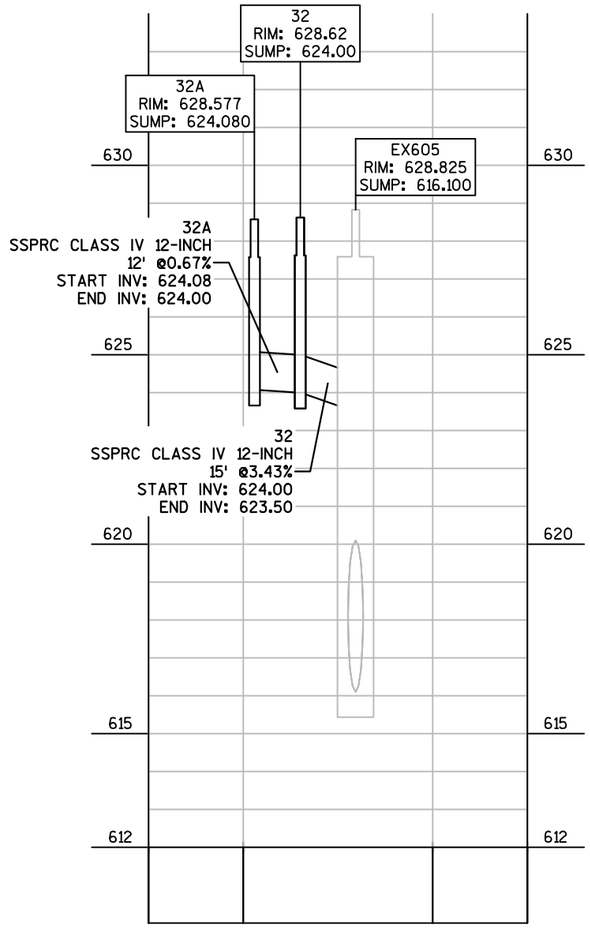
CAUTION

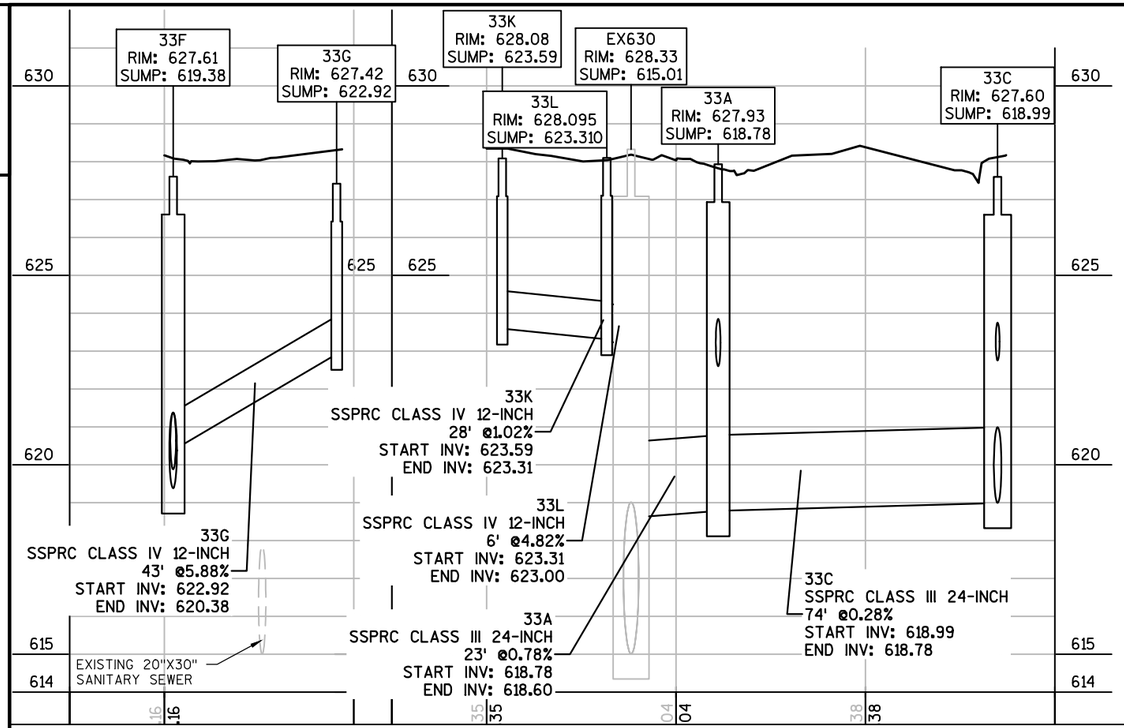


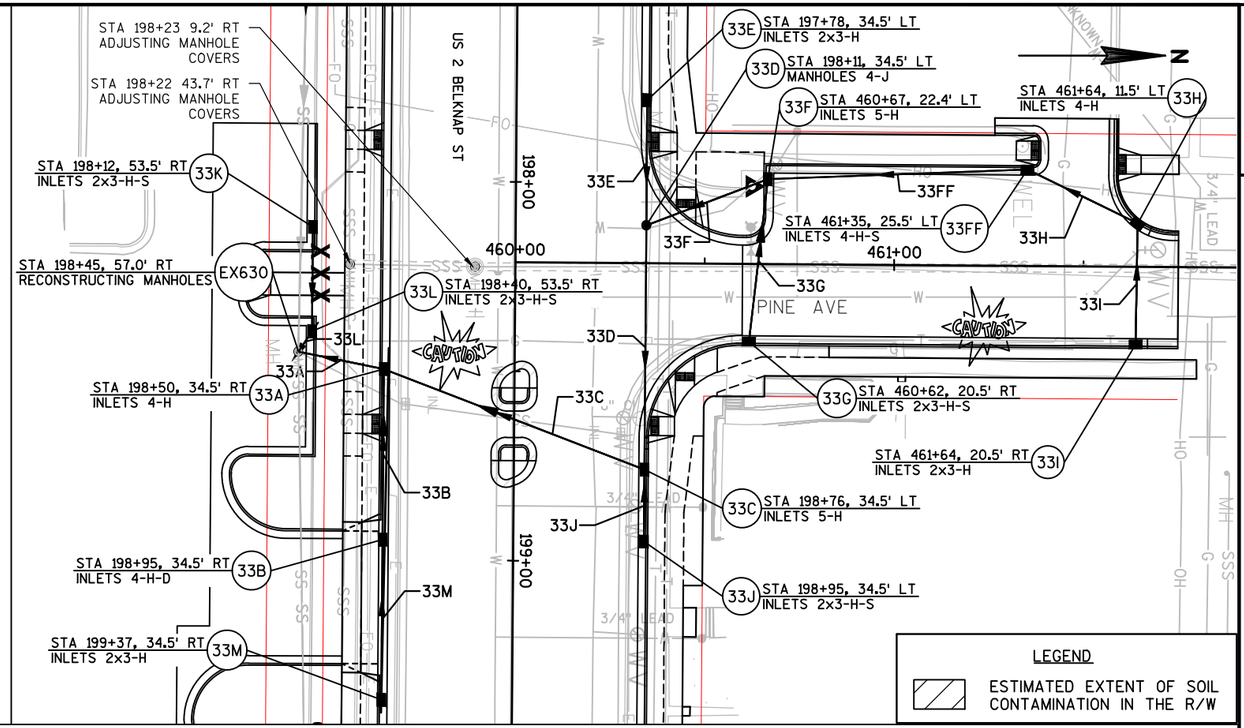
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 125	E

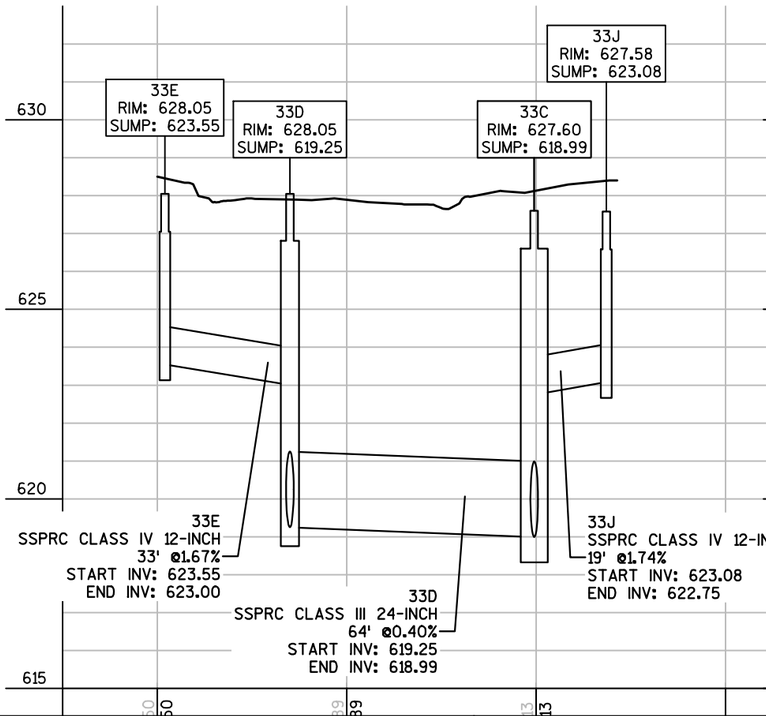
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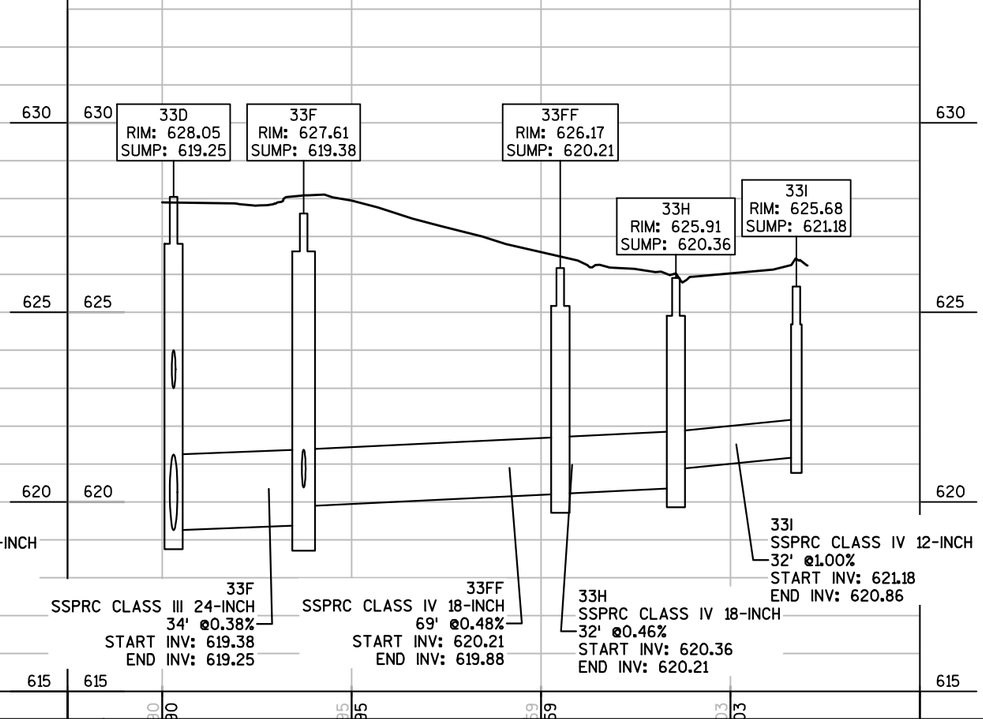

630
625
620
615
31A
RIM: 626.70
SUMP: 623.35
590
RIM: 628.50
SUMP: 616.53
31
RIM: 628.03
SUMP: 623.23
31A
SSPRC CLASS IV 15-INCH
56' @2.35%
START INV: 623.35
END INV: 622.03
31
SSPRC CLASS IV 15-INCH
65' @0.62%
START INV: 623.23
END INV: 622.83

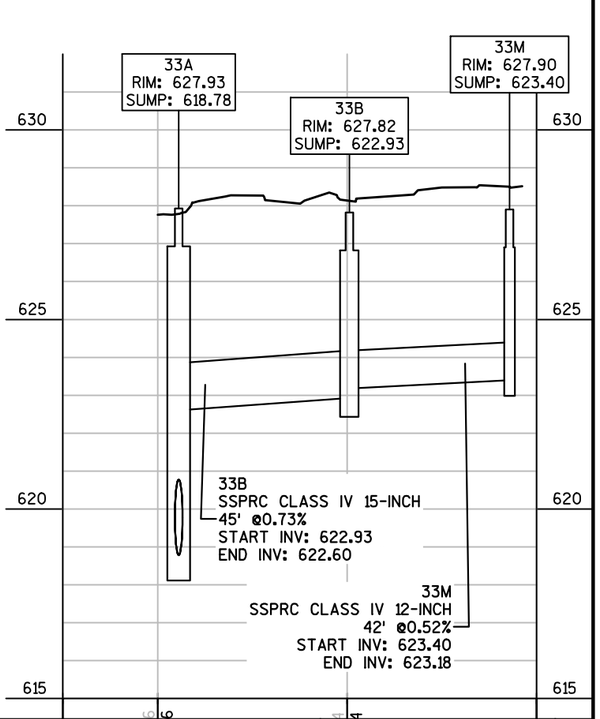

32
RIM: 628.62
SUMP: 624.00
32A
RIM: 628.577
SUMP: 624.080
EX605
RIM: 628.825
SUMP: 616.100
630
625
620
615
612
32A
SSPRC CLASS IV 12-INCH
12' @0.67%
START INV: 624.08
END INV: 624.00
32
SSPRC CLASS IV 12-INCH
15' @3.43%
START INV: 624.00
END INV: 623.50

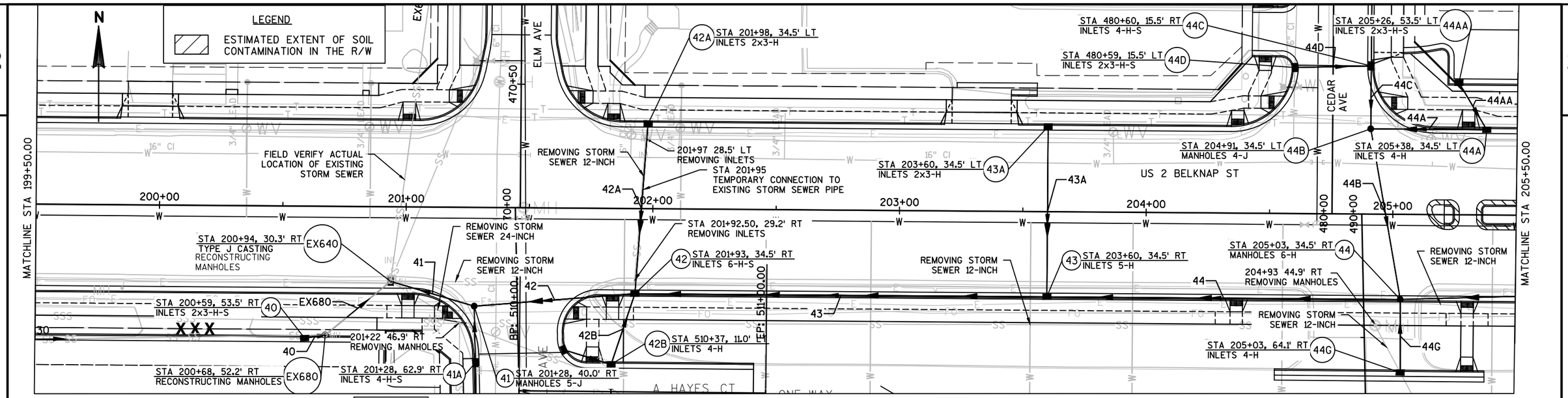

33F
RIM: 627.61
SUMP: 619.38
33G
RIM: 627.42
SUMP: 622.92
33K
RIM: 628.08
SUMP: 623.59
33L
RIM: 628.095
SUMP: 623.310
EX630
RIM: 628.33
SUMP: 615.01
33A
RIM: 627.93
SUMP: 618.78
33C
RIM: 627.60
SUMP: 618.99
630
625
620
615
614
33G
SSPRC CLASS IV 12-INCH
43' @5.88%
START INV: 622.92
END INV: 620.38
EXISTING 20"X30"
SANITARY SEWER
33K
SSPRC CLASS IV 12-INCH
28' @1.02%
START INV: 623.59
END INV: 623.31
33L
SSPRC CLASS IV 12-INCH
6' @4.82%
START INV: 623.31
END INV: 623.00
33A
SSPRC CLASS III 24-INCH
23' @0.78%
START INV: 618.78
END INV: 618.60
33C
SSPRC CLASS III 24-INCH
74' @0.28%
START INV: 618.99
END INV: 618.78

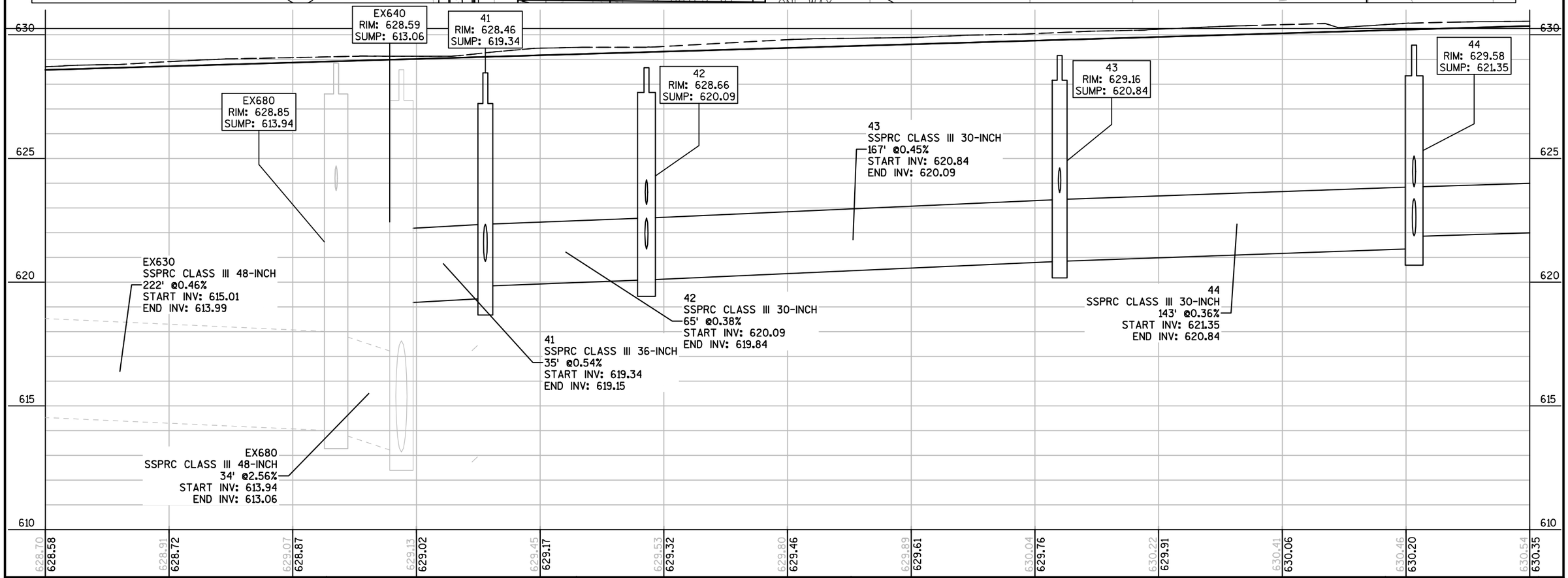

STA 198+23 9.2' RT
ADJUSTING MANHOLE
COVERS
STA 198+22 43.7' RT
ADJUSTING MANHOLE
COVERS
US 2 BELKNAP ST
STA 198+12, 53.5' RT
INLETS 2x3-H-S
33K
STA 198+45, 57.0' RT
RECONSTRUCTING MANHOLES
EX630
33L
STA 198+40, 53.5' RT
INLETS 2x3-H-S
33A
STA 198+50, 34.5' RT
INLETS 4-H
33B
STA 198+95, 34.5' RT
INLETS 4-H-D
33M
STA 199+37, 34.5' RT
INLETS 2x3-H
198+00
199+00
460+00
461+00
CAUTION
33E
STA 197+78, 34.5' LT
INLETS 2x3-H
33D
STA 198+11, 34.5' LT
MANHOLES 4-J
33F
STA 460+67, 22.4' LT
INLETS 5-H
33FF
STA 461+35, 25.5' LT
INLETS 4-H-S
33H
STA 461+64, 11.5' LT
INLETS 4-H
33G
STA 460+62, 20.5' RT
INLETS 2x3-H-S
33I
STA 461+64, 20.5' RT
INLETS 2x3-H
33C
STA 198+76, 34.5' LT
INLETS 5-H
33J
STA 198+95, 34.5' LT
INLETS 2x3-H-S
PINE AVE
N
LEGEND
ESTIMATED EXTENT OF SOIL
CONTAMINATION IN THE R/W


33E
RIM: 628.05
SUMP: 623.55
33D
RIM: 628.05
SUMP: 619.25
33C
RIM: 627.60
SUMP: 618.99
33J
RIM: 627.58
SUMP: 623.08
630
625
620
615
33E
SSPRC CLASS IV 12-INCH
33' @1.67%
START INV: 623.55
END INV: 623.00
33D
SSPRC CLASS III 24-INCH
64' @0.40%
START INV: 619.25
END INV: 618.99
33J
SSPRC CLASS IV 12-INCH
19' @1.74%
START INV: 623.08
END INV: 622.75


33D
RIM: 628.05
SUMP: 619.25
33F
RIM: 627.61
SUMP: 619.38
33FF
RIM: 626.17
SUMP: 620.21
33H
RIM: 625.91
SUMP: 620.36
33I
RIM: 625.68
SUMP: 621.18
630
625
620
615
33F
SSPRC CLASS III 24-INCH
34' @0.38%
START INV: 619.38
END INV: 619.25
33FF
SSPRC CLASS IV 18-INCH
69' @0.48%
START INV: 620.21
END INV: 619.88
33H
SSPRC CLASS IV 18-INCH
32' @0.46%
START INV: 620.36
END INV: 620.21
33I
SSPRC CLASS IV 12-INCH
32' @1.00%
START INV: 621.18
END INV: 620.86

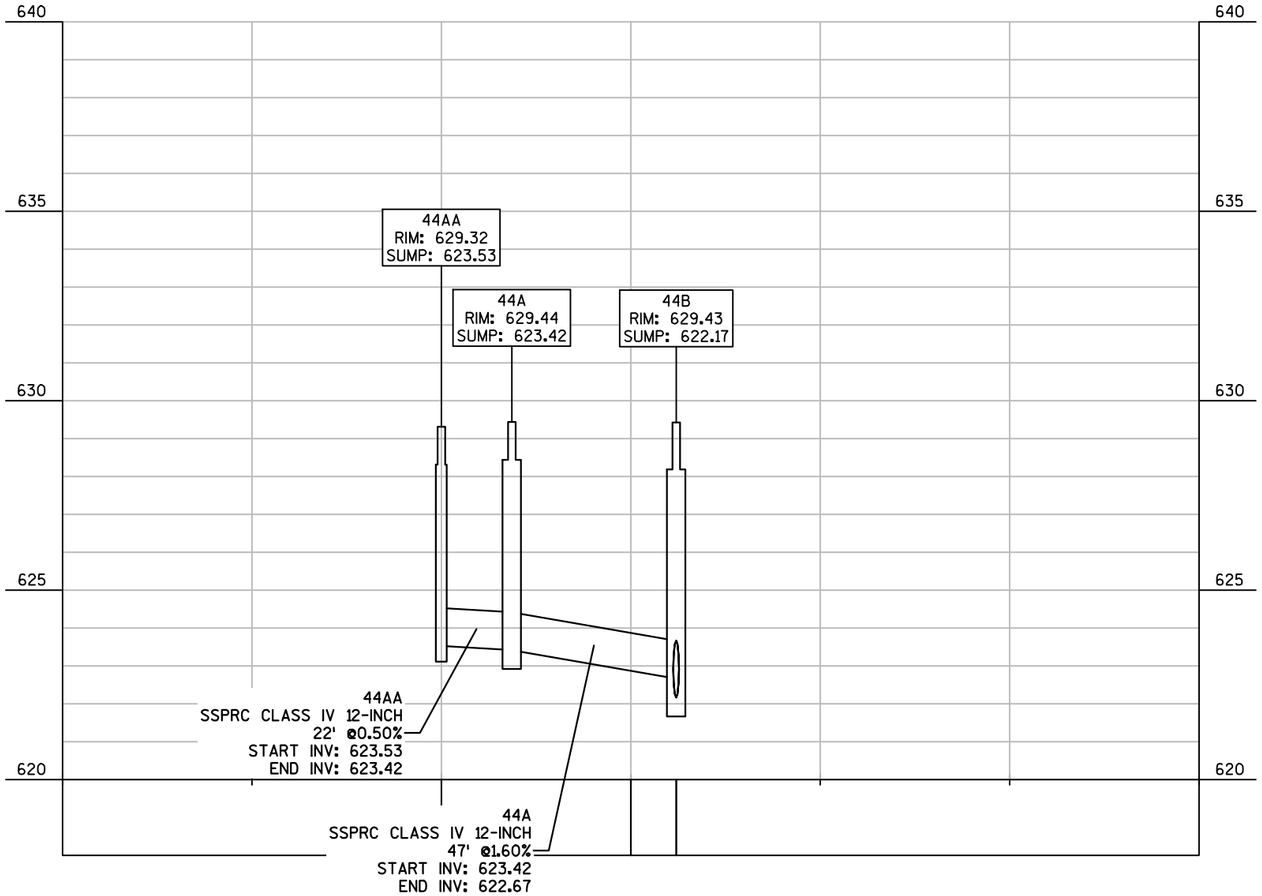

33A
RIM: 627.93
SUMP: 618.78
33B
RIM: 627.82
SUMP: 622.93
33M
RIM: 627.90
SUMP: 623.40
630
625
620
615
33B
SSPRC CLASS IV 15-INCH
45' @0.73%
START INV: 622.93
END INV: 622.60
33M
SSPRC CLASS IV 12-INCH
42' @0.52%
START INV: 623.40
END INV: 623.18





PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 128	E

2


640
635
630
625
620
44AA
RIM: 629.32
SUMP: 623.53
44A
RIM: 629.44
SUMP: 623.42
44B
RIM: 629.43
SUMP: 622.17
44AA
SSPRC CLASS IV 12-INCH
22' @0.50%
START INV: 623.53
END INV: 623.42
44A
SSPRC CLASS IV 12-INCH
47' @1.60%
START INV: 623.42
END INV: 622.67

STA 200+68, 52.2' RT
RECONSTRUCTING MANHOLES
EX680

STA 200+94, 30.3' RT
TYPE J CASTING
RECONSTRUCTING
MANHOLES
EX640

STA 201+25 45.6' RT
STA 469+54 17.5' RT
POSSIBLE EXISTING SANITARY SEWER AND STORM SEWER
CROSSING EXPLORATORY EXCAVATION TO DETERMINE
TOP OF SANITARY ELEVATION AND LOCATION
TOP OF SANITARY SEWER PIPE 619.06 COMPUTED
ADJUST STORM SEWER TO AVOID CONFLICT

41B STA 467+78, 17.5' LT
INLETS 4-H

STA 467+72, 21.9' LT
MANHOLES 4-J
41D

REMOVING STORM SEWER 18-INCH

REMOVING STORM SEWER 12-INCH
41

STA 469+34 17.4' LT
REMOVING INLETS

41 STA 201+28, 40.0' RT
MANHOLES 5-J

STA 469+38, 17.5' LT
INLETS 4-H-S
41A

41B

41D

41C

466+85467+00

468+00

469+00

BP: 510+00.00

470+00

REMOVING STORM SEWER 12-INCH

470+50

471+00

STA 469+00, 17.5' RT
INLETS 2x3-H
42D

STA 469+32 30.3' RT
REMOVING INLETS

ELM AVE

42

42BB STA 469+42, 18.5' RT
INLETS 2x3-H-S

42D

42BB

42A

42B

42C

42E

STA 467+67 18.5' RT
ADJUSTING MANHOLE
COVERS

41C STA 467+77, 17.5' RT
INLETS 2x3-H
0.896 ACRES
FUTURE CONNECTION

STA 510+37, 11.0' RT
INLETS 4-H-S
42C

STA 510+47, 11.0' RT
INLETS 2x3-H
42E

HAYES CT

42 STA 201+93, 34.5' RT
INLETS 6-H-S

42B STA 510+37, 11.0' LT
INLETS 4-H

EP: 511+00.00

42A STA 201+98, 34.5' LT
INLETS 2x3-H

STA 472+07, 21.6' LT
MANHOLES 8-J
34

REMOVE STORM SEWER 54-INCH

EX640

STA 471+44, 13.5' LT
INLETS 2x3-H
34C

34A STA 472+07, 13.5' LT
INLETS 2x3-H

34C

34A

STA 472+01, 13.5' LT
INLETS 2x3-H
34B

34B

472+00

472+50

STA 471+99 12.9' LT
REMOVING INLETS
SEALING PIPES
34E

34D

REMOVING SMALL
PIPE CULVERTS

STA 472+01, 13.5' RT
INLETS 2x3-H
34E

34D STA 472+07, 13.5' RT
INLETS 2x3-H
0.458 ACRES
FUTURE CONNECTION

ONE-WAY

LEGEND

ESTIMATED EXTENT OF SOIL CONTAMINATION IN THE R/W

41D
RIM: 630.387
SUMP: 622.940

41B
RIM: 629.652
SUMP: 622.900

41A
RIM: 628.07
SUMP: 621.10

41
RIM: 628.46
SUMP: 619.34

40
RIM: 628.31
SUMP: 623.81

EX680
RIM: 628.85
SUMP: 613.94

EX640
RIM: 628.59
SUMP: 613.06

34
RIM: 626.43
SUMP: 612.94

41B
SSPRC CLASS III 18-INCH
159' @1.13%
START INV: 622.90
END INV: 621.10

41A
SSPRC CLASS III 18-INCH
23' @1.14%
START INV: 621.10
END INV: 620.84

40
SSPRC CLASS IV 12-INCH
8' @1.31%
START INV: 623.81
END INV: 623.70

EX680
SSPRC CLASS III 48-INCH
34' @2.56%
START INV: 613.94
END INV: 613.06

EX640
SSPRC CLASS III 54-INCH
239' @0.08%
START INV: 613.13
END INV: 612.94

EX34
SSPRC CLASS III 54-INCH
256' @0.08%
START INV: 612.94
END INV: 612.73

34
SSPRC CLASS III 54-INCH
8' @0.13%
START INV: 612.94
END INV: 612.93

41D
SSPRC CLASS III 18-INCH
8' @0.51%
START INV: 622.94
END INV: 622.90

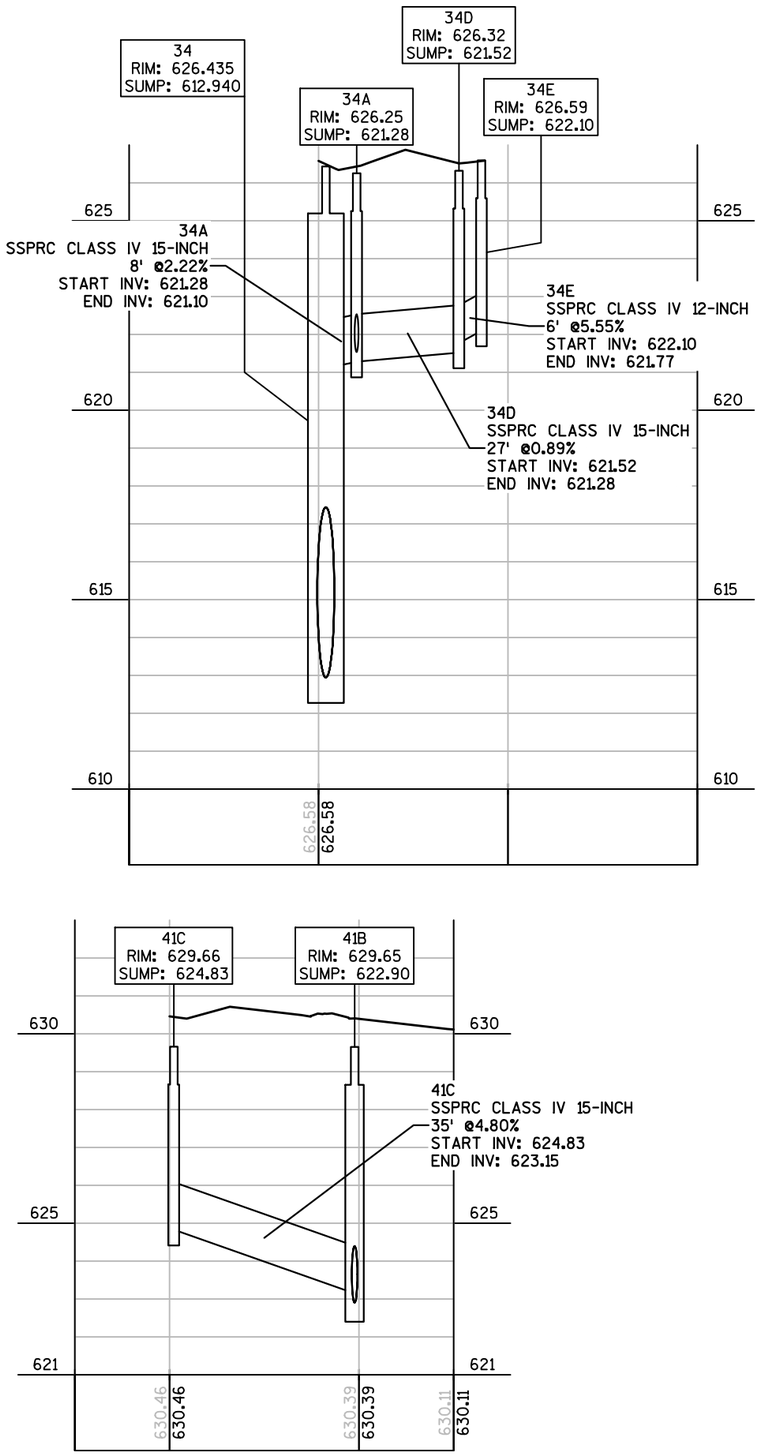
CONNECT TO EXISTING 18" RCP TO MANHOLE 41D
(CONNECTION INCIDENTAL TO MANHOLE)
FIELD VERIFY INVERT ELEVATION OF 622.94

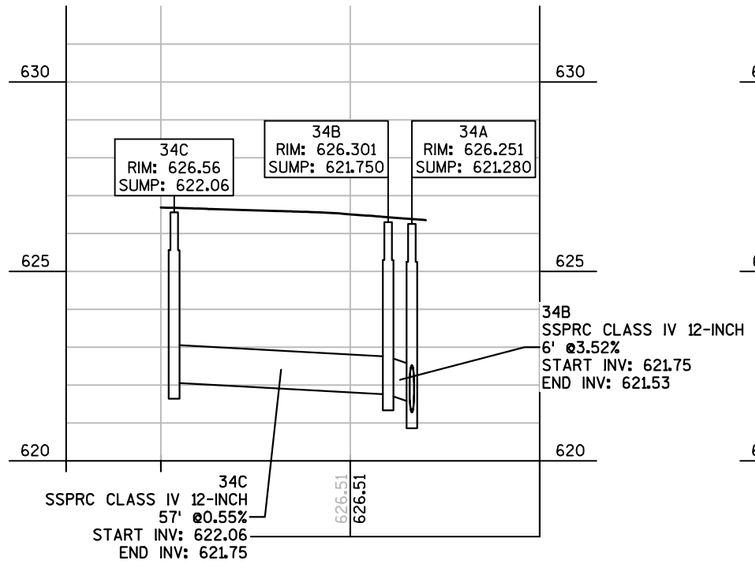
CONCRETE COLLAR FIELD VERIFY LOCATION AND
INVERT ELEVATION OF 612.93 CONNECT TO
EXISTING 54" RCP

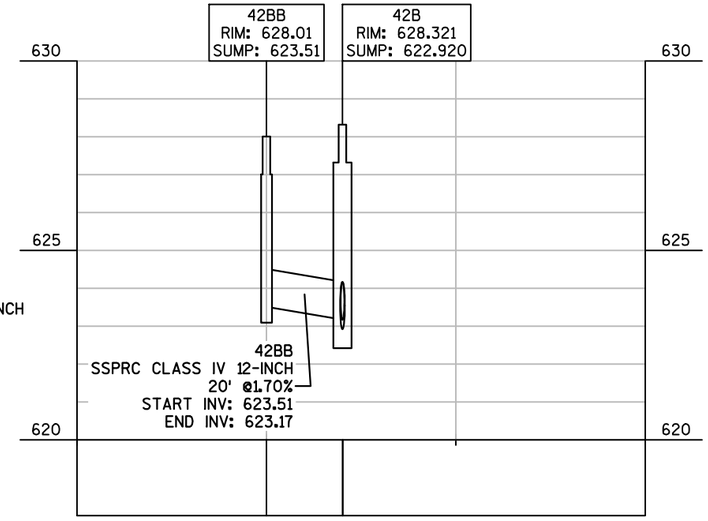
635 630 625 620 618 615 612

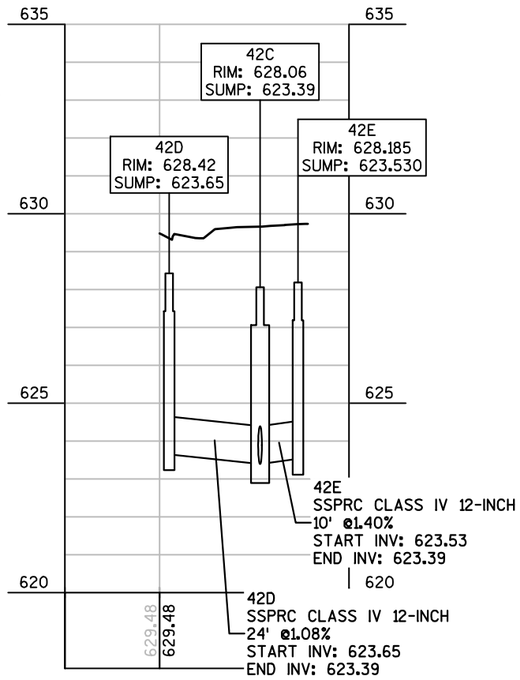
630.61 630.39 629.88 629.30 628.84 628.89 628.50 628.70 628.58 627.60 626.90

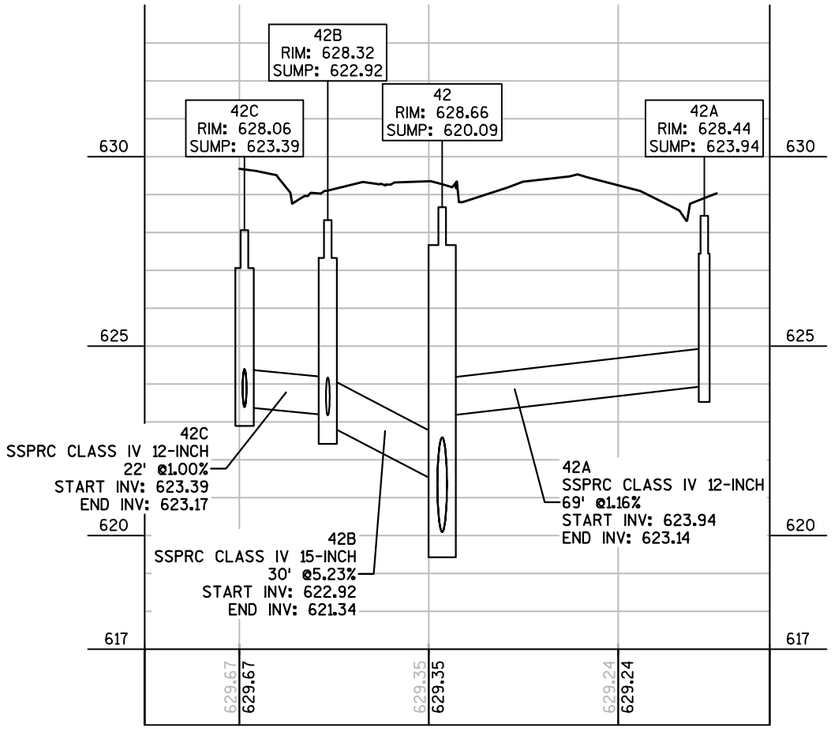
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 130	E



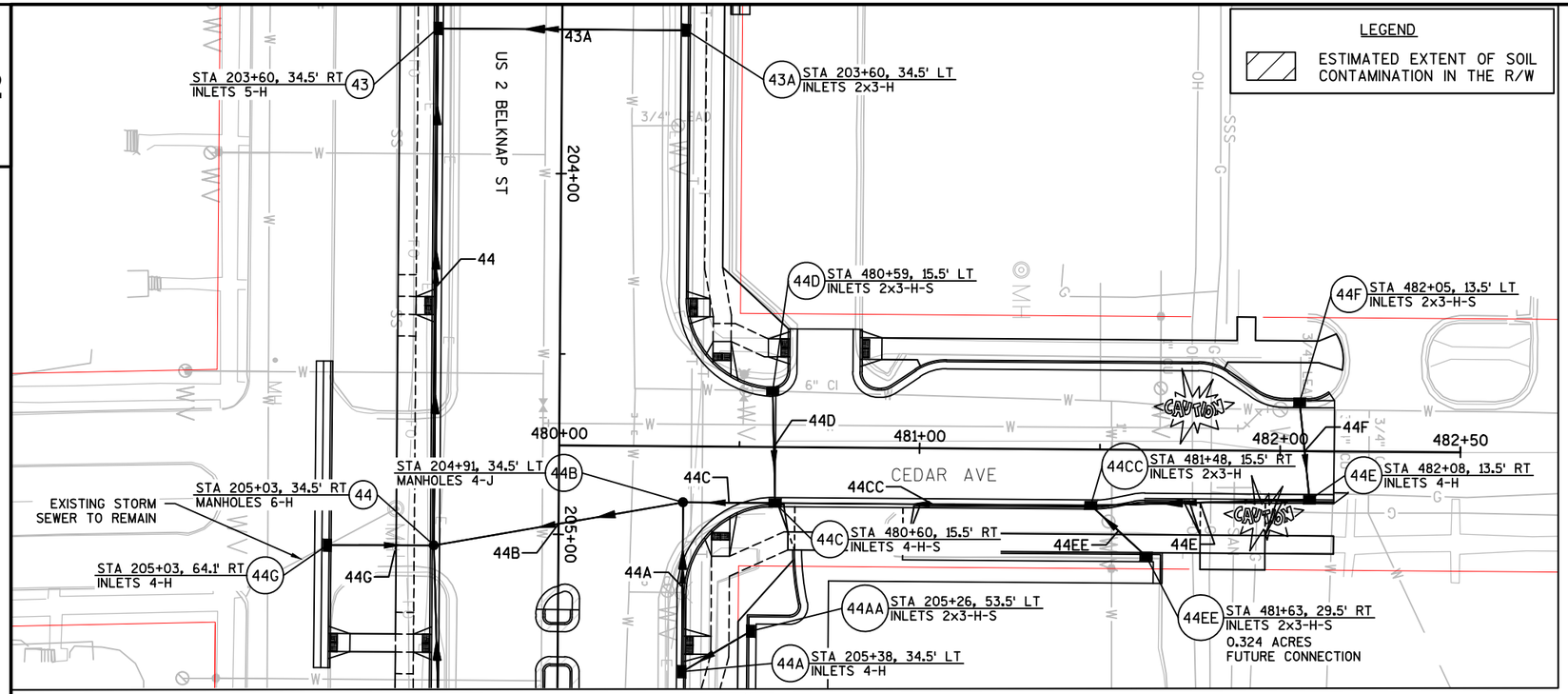


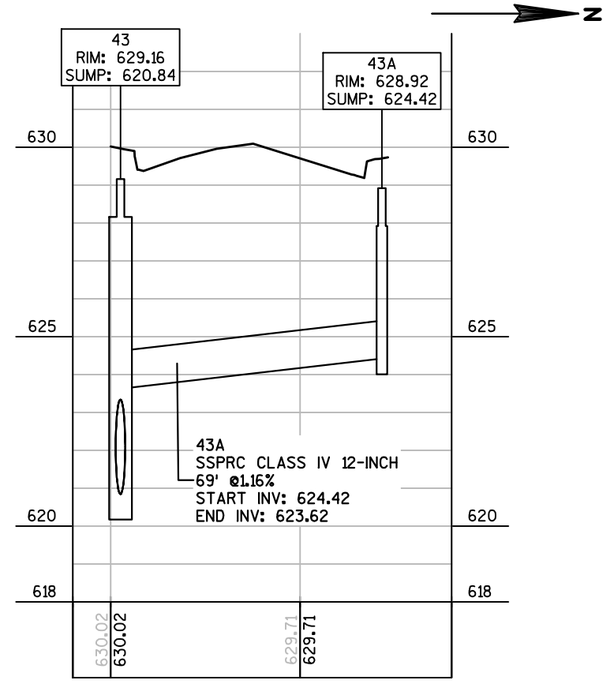


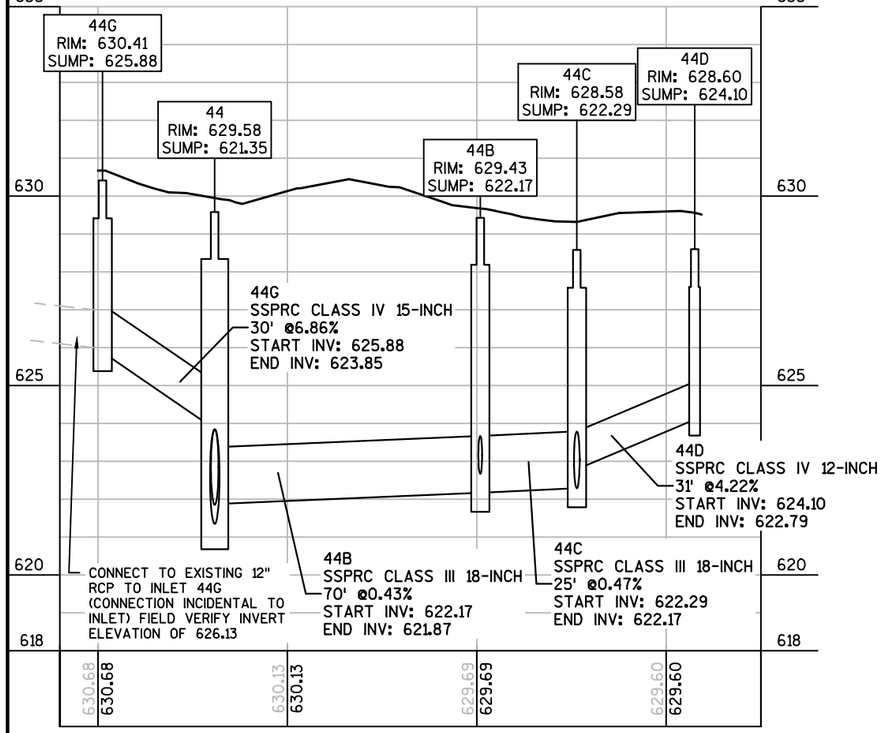


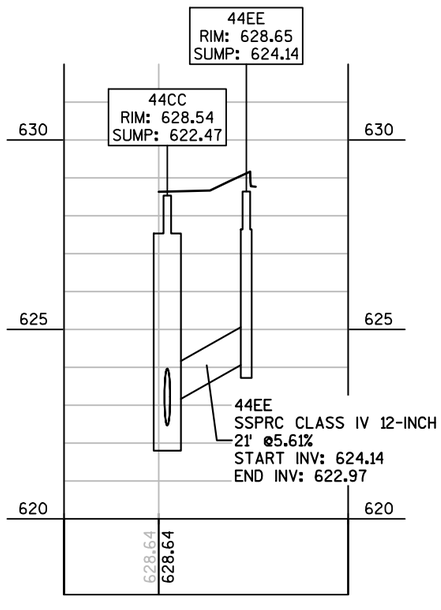


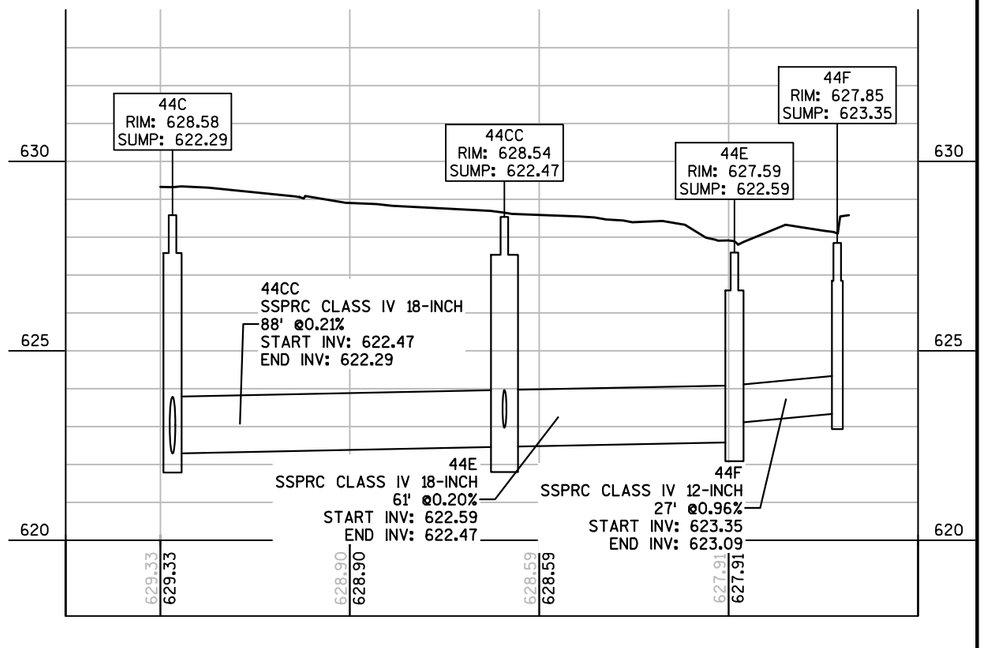
PROJECT NO: 8680-00-71	HWY: US 2	COUNTY: DOUGLAS	STORM SEWER	SHEET 131	E



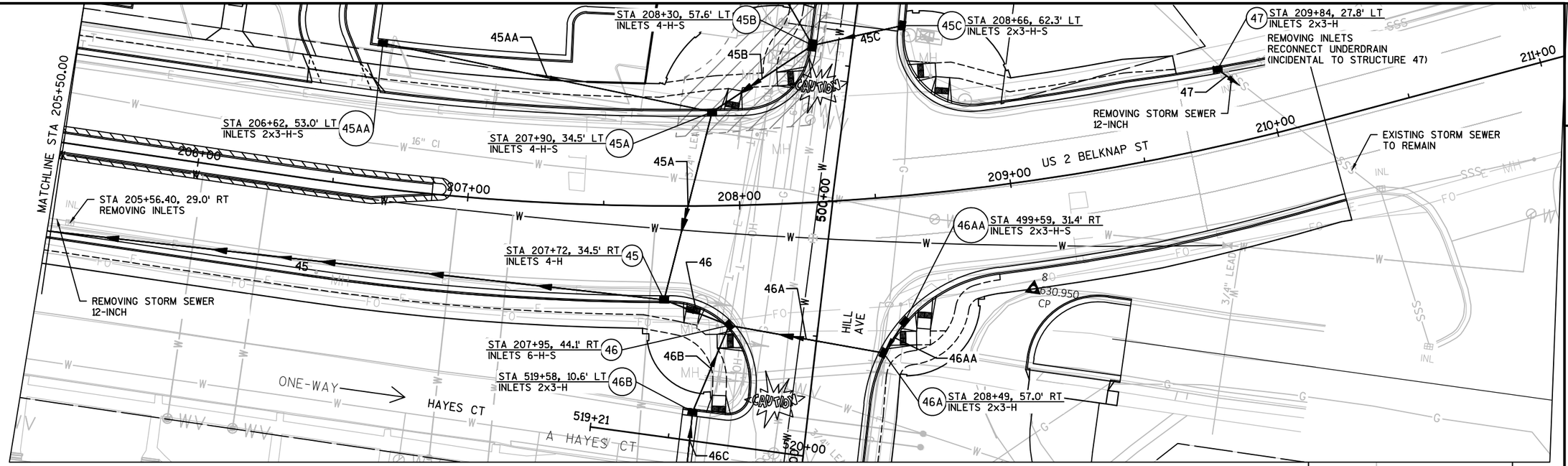


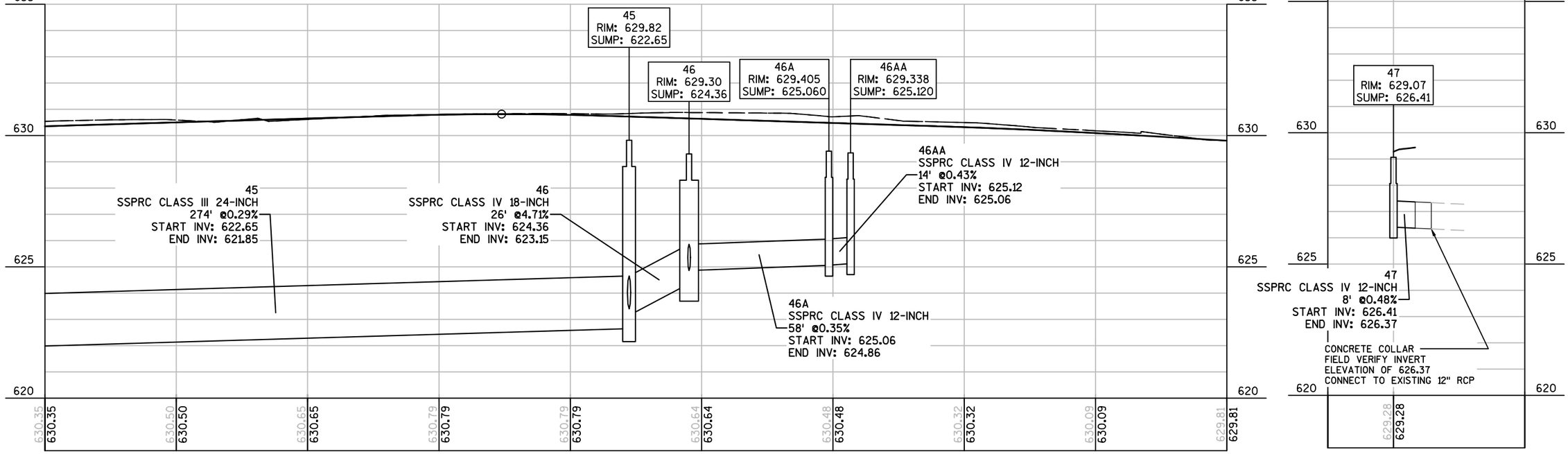




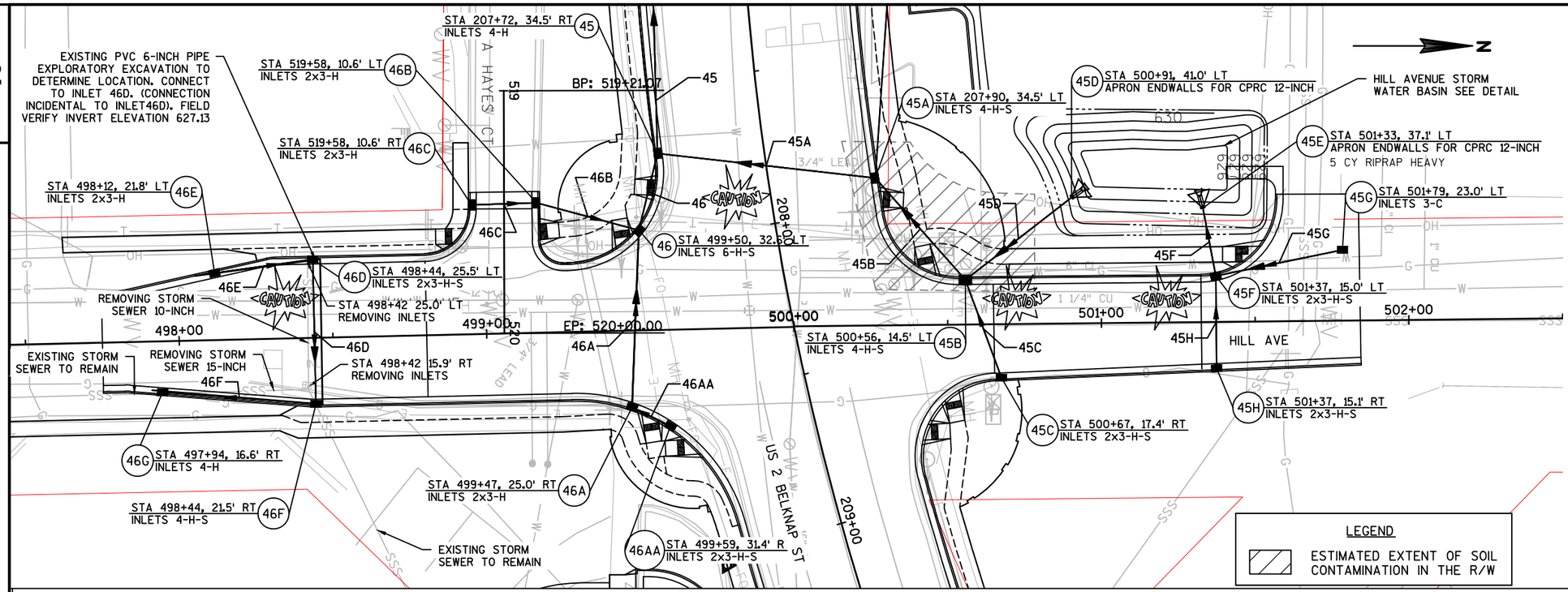


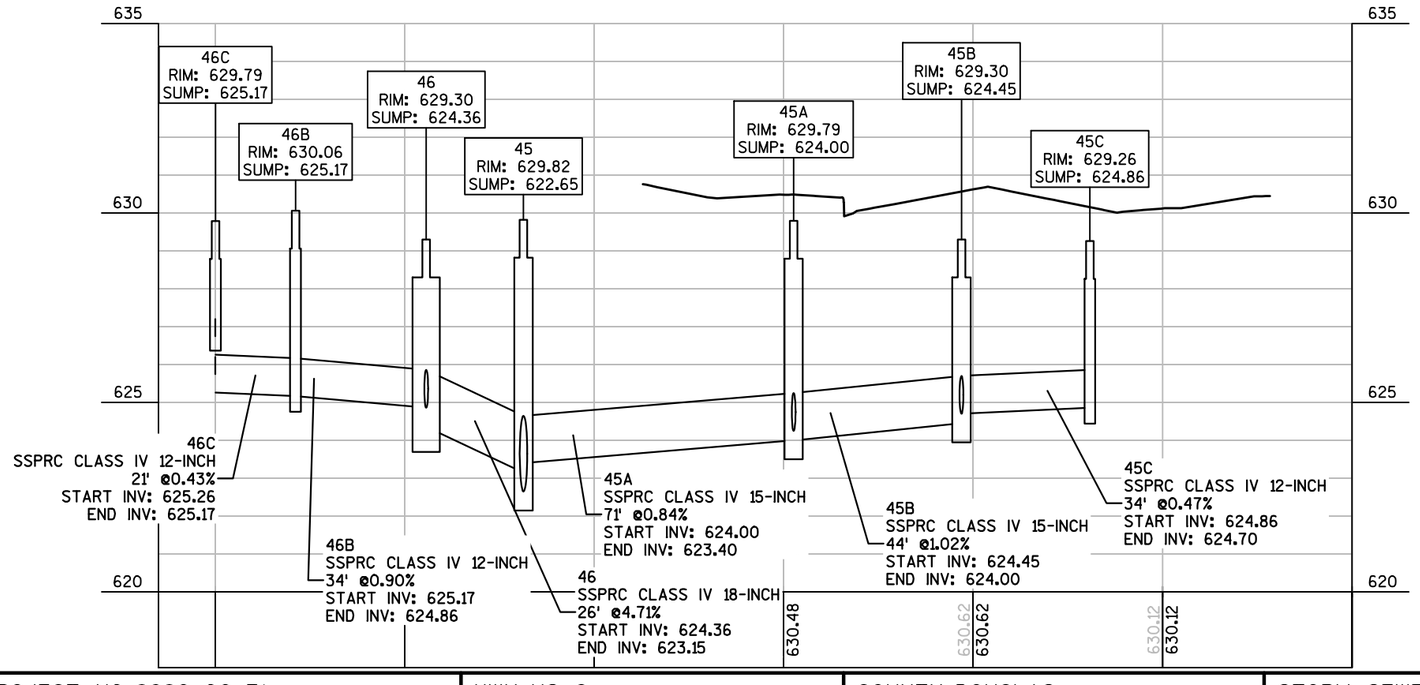
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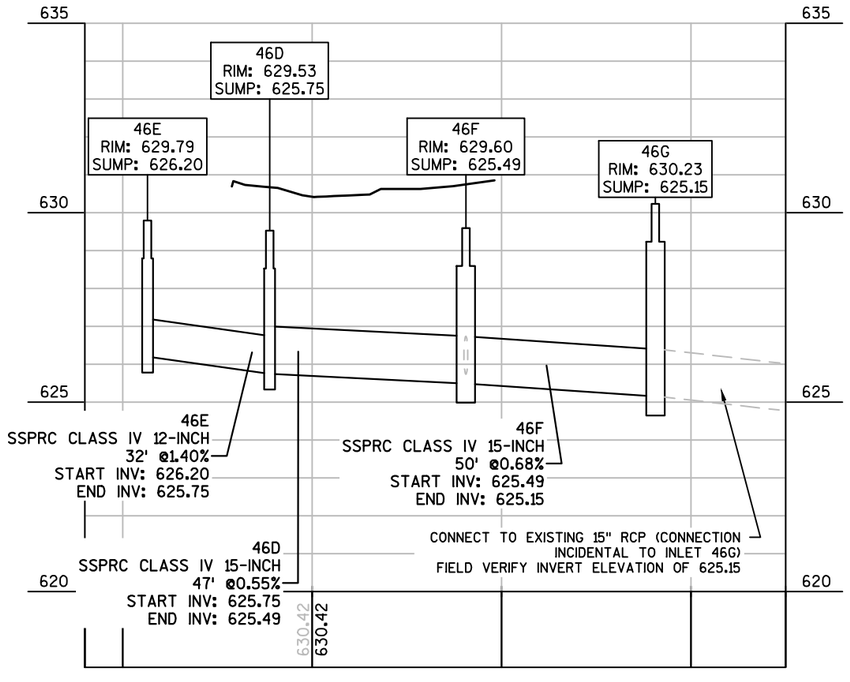




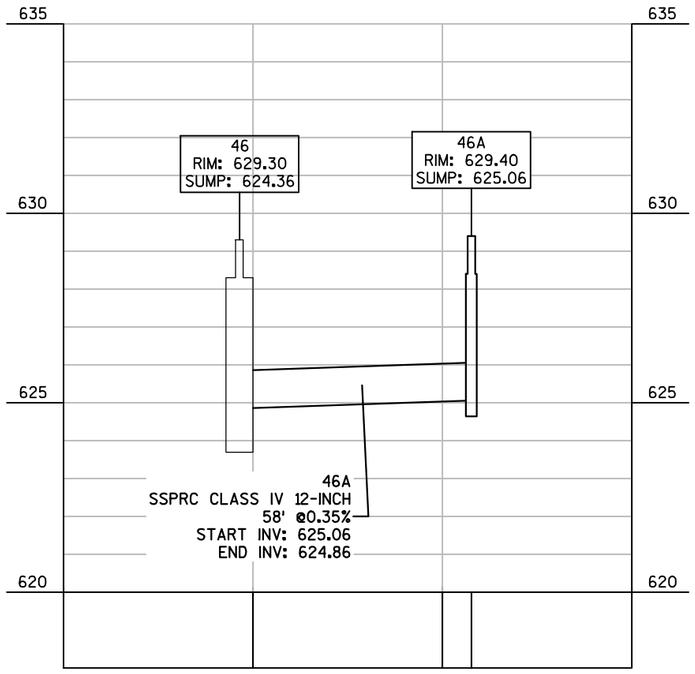
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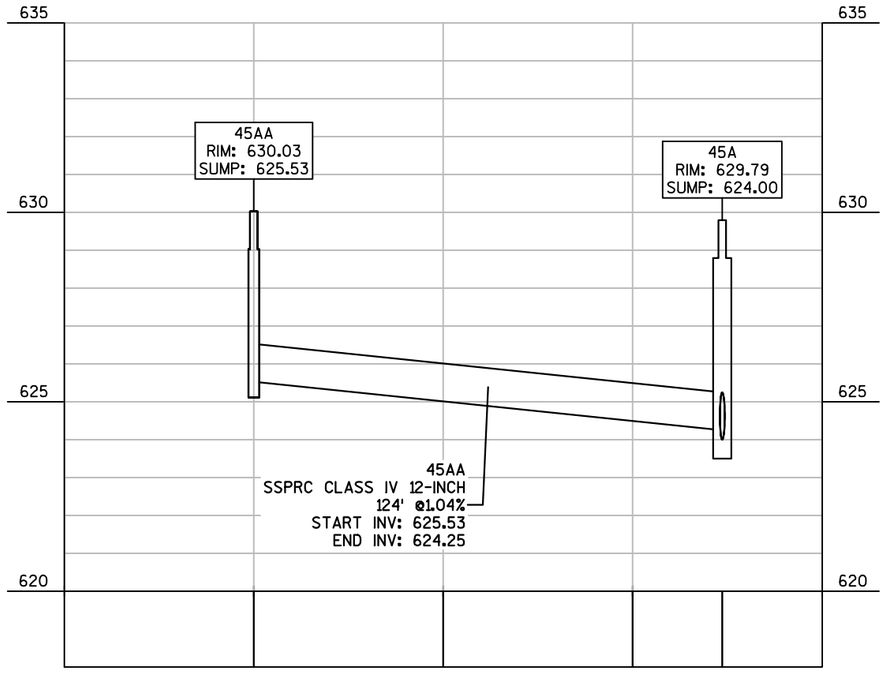


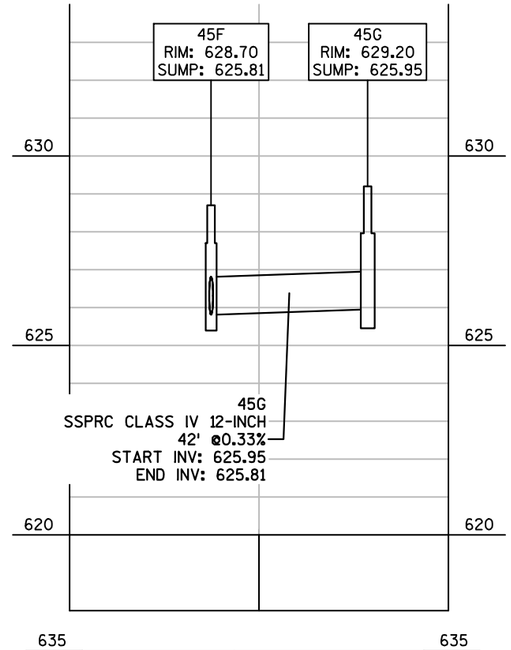


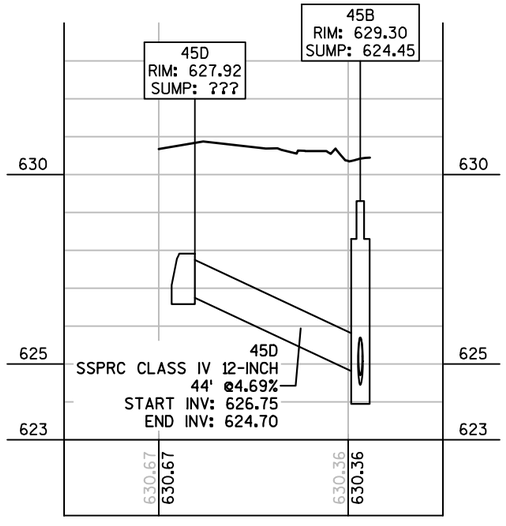


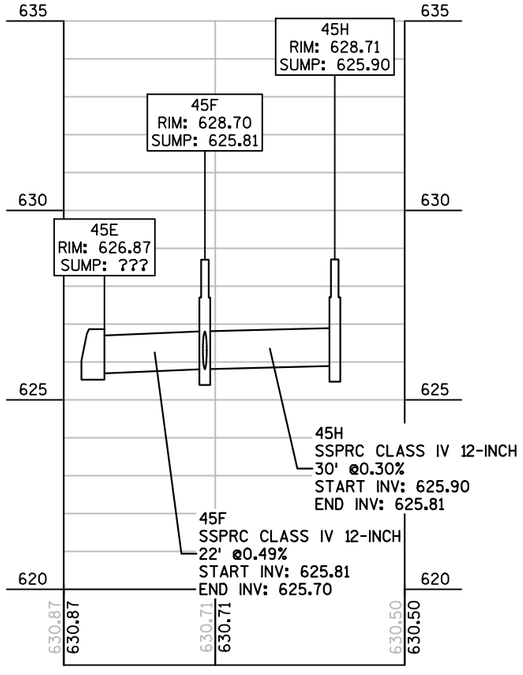
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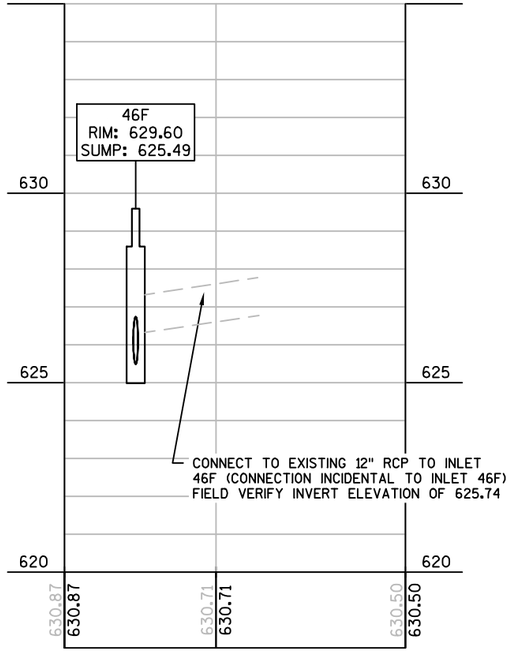

635
630
625
620
46
RIM: 629.30
SUMP: 624.36
46A
RIM: 629.40
SUMP: 625.06
46A
SSPRC CLASS IV 12-INCH
58' @0.35%
START INV: 625.06
END INV: 624.86

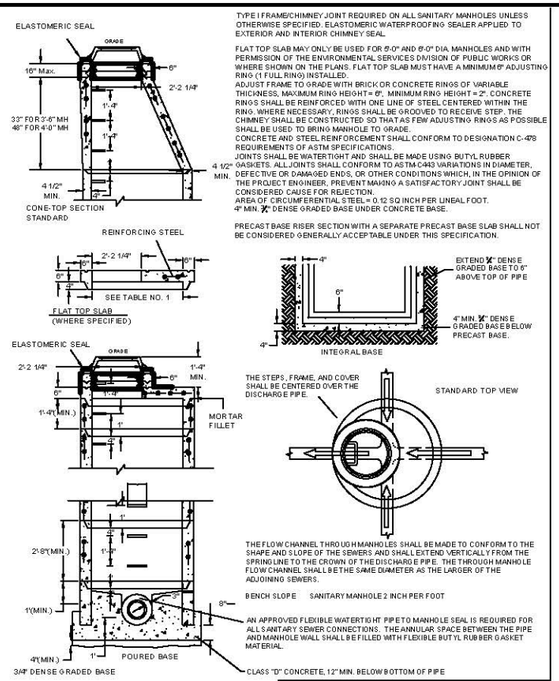

635
630
625
620
45AA
RIM: 630.03
SUMP: 625.53
45A
RIM: 629.79
SUMP: 624.00
45AA
SSPRC CLASS IV 12-INCH
124' @1.04%
START INV: 625.53
END INV: 624.25


630
625
620
45F
RIM: 628.70
SUMP: 625.81
45G
RIM: 629.20
SUMP: 625.95
45G
SSPRC CLASS IV 12-INCH
42' @0.33%
START INV: 625.95
END INV: 625.81


630
625
623
45B
RIM: 629.30
SUMP: 624.45
45D
RIM: 627.92
SUMP: ???
45D
SSPRC CLASS IV 12-INCH
44' @4.69%
START INV: 626.75
END INV: 624.70
630.67
630.67
630.36
630.36


635
630
625
620
45H
RIM: 628.71
SUMP: 625.90
45F
RIM: 628.70
SUMP: 625.81
45E
RIM: 626.87
SUMP: ???
45H
SSPRC CLASS IV 12-INCH
30' @0.30%
START INV: 625.90
END INV: 625.81
45F
SSPRC CLASS IV 12-INCH
22' @0.49%
START INV: 625.81
END INV: 625.70
630.87
630.87
630.71
630.71
630.50
630.50


635
630
625
620
46F
RIM: 629.60
SUMP: 625.49
CONNECT TO EXISTING 12" RCP TO INLET
46F (CONNECTION INCIDENTAL TO INLET 46F)
FIELD VERIFY INVERT ELEVATION OF 625.74
630.87
630.87
630.71
630.71
630.50
630.50



TYPE I FRAME/CHIMNEY JOINT REQUIRED ON ALL SANITARY MANHOLES UNLESS OTHERWISE SPECIFIED. ELASTOMERIC WATERPROOFING SEALER APPLIED TO EXTERIOR AND INTERIOR CHIMNEY SEAL.

FLAT TOP SLAB MAY ONLY BE USED FOR 5'-0" AND 6'-0" DIA. MANHOLES AND WITH PERMISSION OF THE ENVIRONMENTAL SERVICES DIVISION OF PUBLIC WORKS OR WHERE SHOWN ON THE PLANS. FLAT TOP SLAB MUST HAVE A MINIMUM 6" ADJUSTING RING (1 FULL RING) INSTALLED.

ADJUST FRAME TO GRADE WITH BRICK OR CONCRETE RINGS OF VARIABLE THICKNESS, MAXIMUM RING HEIGHT = 6", MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP. THE CHIMNEY SHALL BE CONSTRUCTED SO THAT AS FEW ADJUSTING RINGS AS POSSIBLE SHALL BE USED TO BRING MANHOLE TO GRADE.

CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING BUTYL RUBBER GASKETS. ALL JOINTS SHALL CONFORM TO ASTM C-443 VARIATIONS IN DIAMETER, DEFECTIVE OR DAMAGED ENDS, OR OTHER CONDITIONS WHICH, IN THE OPINION OF THE PROJECT ENGINEER, PREVENT MAKING A SATISFACTORY JOINT SHALL BE CONSIDERED CAUSE FOR REJECTION.

AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ INCH PER LINEAL FOOT.

4" MIN. ¾" DENSE GRADED BASE UNDER CONCRETE BASE.

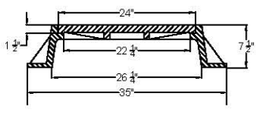
PRECAST BASE RISER SECTION WITH A SEPARATE PRECAST BASE SLAB SHALL NOT BE CONSIDERED GENERALLY ACCEPTABLE UNDER THIS SPECIFICATION.

THE FLOW CHANNEL THROUGH MANHOLES SHALL BE MADE TO CONFORM TO THE SHAPE AND SLOPE OF THE SEWERS AND SHALL EXTEND VERTICALLY FROM THE SPRING LINE TO THE CROWN OF THE DISCHARGE PIPE. THE THROUGH MANHOLE FLOW CHANNEL SHALL BE THE SAME DIAMETER AS THE LARGER OF THE ADJOINING SEWERS.

BENCH SLOPE SANITARY MANHOLE 2 INCH PER FOOT

SANITARY PRECAST MANHOLE

SANITARY MANHOLE CASTING DIMENSIONS



GENERAL

The Contractor shall comply with the following. In case of conflict, the first listed standard shall take precedence.

1. *Comply with all applicable Sections of Wisconsin Administrative Code.*
2. *Comply with all applicable Sections of City of Superior Administrative Code.*
3. *Public Works Industry Improvement Program, 2835 North Mayfair Road, Milwaukee, Wisconsin 53222 or requested by telephone at (414) 778-1050.*
4. *[illegible]*

SANITARY PIPE AND JOINT MATERIALS

All material used for sanitary sewer construction shall be free from defects that impair service. Each length of pipe and fitting used in a sanitary sewer shall be stamped or indelibly marked with the manufacturer's name or mark. The substitution of any other type of pipe, or monolithic section, may only be used with the approval of the ESD.

FITTINGS FOR ALL BUILDING SEWER (LATERAL) CONNECTIONS

Fittings for all building sewers shall be factory-fabricated wyes, unless otherwise specified on the plans. These fittings shall be placed at an angle of 45 degrees above the horizontal unless otherwise specified. On sewers 12 inches or larger in diameter, tees may be substituted for wyes. The wye or tee shall have a diameter of 6 inches unless otherwise specified. Fittings on the main sewer for the construction of risers shall be in-line, factory fabricated tees placed with the branch vertical. The Contractor shall not connect any building sewers or drains to new sewers or manholes prior to their acceptance by the ESD, except in relay work.

REJECTION OF PIPE MATERIALS

Pipe shall be subject to rejection for failure to conform to any requirement of the specifications or for any of the following reasons:

1. Fractures or cracks passing through the pipe wall or socket, except that a single crack not exceeding 2 inches in length at either end of the pipe or a single fracture in the socket not exceeding 3 inches in width nor 2 inches in length shall not be considered cause for rejection unless these defects exist in more than 5% of the entire shipment or delivery.
2. Chips or fractures on the interior of the pipe exceeding 2 inches in length, 1 inch in width, or a depth more than 1/4 the barrel thickness.
3. Cracks sufficient to impair the strength, durability, or serviceability of the pipe.
4. Defects that indicate imperfect proportioning, mixing, and molding.
5. Variations of more than 1/8 inch per linear foot in alignment of a pipe intended to be straight.
6. Insecure attachment of spurs.
7. Damaged ends, where such damage would prevent making a satisfactory joint.
8. Cracks, splits, or damage of any kind which may impair the watertight integrity of plastic pipe.

ALIGNMENT

All pipes shall be laid uniformly to line and grade so that the finished sewer will present a uniform bore. Noticeable variations from true alignment and grade will be considered sufficient cause for rejection of the Work.

JOINT ASSEMBLY OF POLYETHYLENE AND POLYVINYL CHLORIDE PIPING

Lubricated spigot end shall be inserted into receiving pipe bell until marked line is even with edge of bell. Assembly resulting in over-insertion, rolled gaskets, split bells, failure to pass acceptance testing or damage to previously assembled joints will be considered sufficient cause for rejection of the Work.

COUPLINGS

Where pipe couplings are required to join pipes of dissimilar material, they shall be fully stainless steel shielded rubber couplings intended for underground use. Couplings shall be rubber underground sewer coupling with rubber conforming to ASTM C 425, ASTM C 1173 and 316 series stainless steel clamps with nut and bolt or worm drive take-up.

BEDDING

Lift thickness for bedding materials shall not exceed 12 inches. Bedding shall be compacted by hand, or mechanically compacted by equally careful means, to a minimum of 90% of Standard Proctor Density. Pipe bedding shall be as follows:

1. Plastic Pipe Plastic pipe, including but not limited to PVC and PE, shall be laid with bedding material of ¾" dense graded base placed below and around the pipe up to the spring line in such a manner as to provide adequate side support and to prevent lateral movement of the pipe. A layer of ¾" dense graded base shall be spread over the bottom of the trench so that after the pipe has been placed thereon, embedded to grade, and aligned, there remains a 4 inch minimum depth of ¾" dense graded base below the pipe barrel and a minimum of 3 inches below the bell for pipe 36 inches in diameter or smaller and a minimum of 6 inches below the pipe for diameters 36 inches or larger. If excavation has been carried deeper than 6 inches below the pipe barrel, the excess depth shall be filled with aggregate. Care shall be taken to insure that the pipe does not rest directly on the bell but is uniformly supported through its entire length. Wood foot blocks of 2-inch minimum thickness may be used at joints of pipe 36 inches in diameter and larger provided that the bedding material is mechanically compacted under the lower 90 degree quadrant of the pipe. Supporting blocks are not permitted under pipe less than 36 inches in diameter .
2. RCP RCP pipe shall be bedded according to the specifications for plastic pipe.

BEDDING MATERIAL

Bedding material shall consist of durable particles ranging in size from fine to course in substantially uniform combination. DOT 3/4 Inch Dense Graded Base Course Subsection 305.2.2.1 is generally acceptable under this specification. Sand does not meet the gradation requirements under this specification.

Bedding Material	
Sieve Size	Percent Passing
1"	100
3/4"	85-100
3/8"	50-80
No. 4	35-65
No. 40	15-30
No. 200	5-15

COVER

Lift thickness for pipe cover shall not exceed 12 inches. Cover shall be mechanically tamped to a minimum of 90% of Standard Proctor Density.

1. Plastic Pipe Plastic pipe, including but not limited to PVC and PE, shall be laid with Cover Material or ¾" dense graded base placed in not less than two stages, one to the top of the pipe and the other to a level at least 6 inches above the pipe for sizes 36 inches in diameter or smaller and to a level at least 12 inches above the pipe where the pipe is larger than 36 inches in diameter. Material shall be placed by hand or equally careful means. In order to provide lateral support for the pipe, each stage of cover shall be compacted by hand or mechanical tamping to a minimum of 90% Standard Proctor Density. If the remaining backfill material contains large rocks or boulders, the second stage of cover shall be increased to a level 12 inches above the pipe.
2. RCP RCP shall be covered according to the specifications for plastic pipe, except where pipe 36 inches in diameter or larger is installed, Granular Backfill may be used as cover.

COVER MATERIAL

Cover material shall consist of durable particles ranging in size from fine to course in substantially uniform combination. DOT 3/4 Inch Dense Graded Base Course Subsection 305.2.2.1 is generally acceptable under this specification. Sand does not meet the gradation requirements under this specification.

Cover Material	
Sieve Size	Percent Passing
1"	100
3/4"	85-100
3/8"	50-80
No. 4	35-65
No. 40	15-30
No. 200	5-15

PREPARATION OF SUBGRADE

All undesirable material such as organic soils, etc., which cannot adequately support the manhole shall be removed below the normal manhole bottom and replaced with Crushed Stone.

Where distance to stable ground is excessive, the ESD reserves the right to order other types of foundation such as an additional poured base as deemed necessary.

MANHOLE BASES

Concrete manhole bases shall be as follows:

1. Precast Manhole With Integral Base The excavation shall be made deep enough so that after the bottom manhole barrel section with the integral base has been placed thereon, set to grade, and plumbed, there remains a minimum depth of bedding material below the bottom of the base equal to the depth of bedding material of the adjacent sewers. The annular space between the manhole excavation and the outside manhole wall shall be backfilled with bedding material up to the spring line of the incoming pipe.
2. Field Poured Base For Precast Manhole The precast manhole bottom barrel shall be set on concrete brick or solid block so that the bottom of this section is below the spring line of the outlet pipe, set for proper location and plumbed. The concrete base of class D concrete shall have a minimum thickness of 12 inches below the invert of the outlet sewer. The manhole base shall substantially conform to the required shape and dimensions; the excavation shall be back formed, if necessary, to achieve this end. If excavation in stable soil has been carried below the required depth, such excess depth shall be filled with concrete. Excess concrete shall not be deposited around the manhole in such a manner that will interfere with possible future connections. The pipe shall be supported on brick or solid concrete blocks for the pouring of the concrete base. The concrete support for rigid pipe shall end in a vertical plane flush with the face of the pipe bell.
3. Separate Concrete Base Slab Separate concrete base slabs shall not generally be acceptable under these specifications.

Flow Channel

The flow channel through manholes shall be made to conform to the shape of the connecting sewers and shall extend vertically from the springline to the crown of the discharge pipe. A minimum uniform drop of 0.10 feet shall be provided in the flow channel between the entering sewer and the discharge sewer. The through manhole flow channel shall be the same diameter as the larger of the adjoining sewers.

DROP PIPE

An outside drop pipe shall be provided for a sewer entering a manhole where the invert elevation of the entering sewer is 2 feet or more above the springline of the outgoing sewer. The entire drop pipe connection shall be encased in concrete. The drop pipe shall be the same diameter as the incoming sewer unless otherwise specified. An inside drop pipe shall not be used without the approval of the ESD.

PIPE TO MANHOLE CONNECTION

Connection shall be water tight in all manholes. Penetrations in manholes shall be cored or preformed.

The manhole connection of pipe sewers shall be accomplished by one of the following:

1. Nonflexible Connections of Rigid Pipe When rigid pipe is connected to a concrete brick, block, or precast manhole within the manhole base, it shall be supported on brick or solid concrete clocks for the pouring of the concrete base. The concrete of the base shall be extended under the pipe and end in a vertical plane flush with the face of the pipe bell. Where pipe enters the manhole above the manhole base, it shall be supported from the wall of the manhole to the face of the first pipe joint bell with a wall of backfill concrete, brick, or solid concrete block columns. Connections shall be as follows:
   a. Sanitary When connecting rigid pipe to a precast manhole the connection shall be by means of an approved flexible watertight pipe to manhole seal for pipe diameters up to 24 inches in 48-inch manholes. This seal shall meet the physical requirements of ASTM C923. Larger diameter pipe connections shall be as shown on the Contract Drawings.
   Connections of rigid pipe to brick or block manholes shall be by means of brick and mortar. A minimum of water shall be added to the mortar to produce a lumpy texture. Mortar shall be packed in and troweled off.
2. Flexible Connection of Pipe All plastic pipe shall be connected to Precast Manholes by means of an approved flexible watertight pipe to manhole seal. This seal shall meet the physical requirements of ASTM C-443 and the performance requirements of ASTM C-425 and C-433. Pipe entering a manhole through this seal shall be laid in accordance with the bedding section requirements and shall not be rigidly supported as required for nonflexible connections. To maintain the seal flexibility that portion of the annular space between the pipe and the manhole wall shall be plugged with butyl rubber gasket material prior to the placing of concrete in the manhole.

BULKHEAD

Unless otherwise specified, bulkheads shall be constructed to form a watertight 8-inch thick wall of mortar and of either clay brick or concrete brick.

MANHOLE MATERIALS

Sanitary manholes shall be precast concrete. Risers and tops shall conform to ASTM C-478.

REJECTION MANHOLE RISERS AND TOPS

Precast manhole risers and tops shall be subject to rejection for failure to conform to any of the specification requirements. In addition, individual sections of manhole risers and tops may be rejected because of any of the following reasons:

1. Fracture or cracks passing through the wall, except for a single end crack that does not exceed the depth of the joint.
2. Defects that indicate imperfect proportioning, mixing, and molding.
3. Surface defects indicating honeycombed or open texture.
4. Defective or damaged ends, where such defect or damage would prevent making a satisfactory joint.
5. Manhole steps out of line or not properly spaced.
6. Defects allowing infiltration.
7. The internal diameter of the manhole section shall not vary more than one percent from the nominal diameter. Any variation in diameter which would prevent making a satisfactory joint shall be considered cause for rejection.
8. Any continuous crack having surface width of 0.01-inch or more and extending for a length of 12 inches or more regardless of position in the section wall.

MANHOLE DIAMETER

The minimum diameter of manholes shall be 48 inches. Larger diameter manholes shall be used as indicated on the plan and profile drawings.

MANHOLE STEP ALIGNMENT, SPACING, AND PROJECTION

Manhole Steps shall be installed in all manholes and structures in excess of 4 feet deep, and be aligned so as to form a continuous ladder with the Manhole Steps equally spaced vertically in the completed manhole at a design distance of 16 inches on center and shall be centered over the discharge pipe.
The steps shall project a minimum clear distance of 4 inches from the wall of the riser or cone section measured from the point of embedment.

MANHOLE STEPS

Steps shall be Steel Reinforced Plastic Manhole Steps or Gray Cast Iron Manhole Steps.

1. Steel Reinforced Plastic Manhole Steps shall be made with an approved plastic such as copolymer polypropylene reinforced with a 1/2-inch diameter deformed reinforcing bar.
2. Gray Cast Iron Manhole Steps shall be made of gray cast iron and shall have minimum cross sectional dimension (diameter) of 1 inch in any direction.

GRADES FOR SETTING MANHOLE FRAMES

The manhole frame shall be set at the elevation given on the plan or, when no such elevation is given, they shall be set as follows:

1. Within A Traveled Roadway Within a traveled roadway or in the shoulders of a highway, the top of the manhole frame shall be set 1/2-inch below the shoulder or pavement surface.
2. In Other Locations In other locations, the top of the frame shall be set at the proposed or established grade, whichever is higher.

CHIMNEY

A chimney having a minimum height of 6 inches and a maximum height of 16 inches, constructed of precast concrete adjusting rings shall be built on top of the corbel section or flat slab up to the elevation at which the frame is set. The chimney shall be constructed so that as few adjusting rings as possible shall be used to bring the manhole to grade.

ADJUSTING RINGS

Concrete adjusting rings shall substantially conform to the diameter dimensions of the respective manhole corbel and shall have height of 2 to 6 inches. Concrete adjusting rings shall be reinforced with No. 2 reinforcing rod centered within the ring. Cracks, exposed bar, or other damage or defect, shall be considered cause for rejection of adjusting rings. The contractor shall wire brush and wipe clean adjusting rings to remove surface contaminants prior to placement and shall moisten the adjusting rings to receive mortar.

CASTINGS

Conform to requirements of ASTM A48, Class 30-B, and be free from cracks, holes, swells, and cold shuts.

The manhole casting shall conform to Chapter 3.5.4(e) of the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition with Addendum No. 1 and No. 2

Assembly, dimensions, details, weight, and class: as indicated in the plan detail drawings.

The casting cover to frame surfaces shall be machine milled to provide true bearing around the entire circumference. The casting shall be "self-sealing," stamped "Sanitary Sewer" with two (2) inch letters, contain two (2) concealed pick holes, and be non-rocking.

FRAME / CHIMNEY JOINTS

All manhole chimneys shall be constructed with flexible watertight frame/ chimney joints. All frame / chimney joints for sanitary sewer manholes shall be Type I Chimney Joints.

1. Type I Chimney Joint Type I Chimney Joint shall be a Type III Chimney Joint and an internal chimney seal.
2. Type II Chimney Joint Type II Chimney Joint omitted.
3. Type III Chimney Joint Type III Chimney Joint shall be a butyl rubber gasket material. The butyl rubber gasket Frame / Chimney joint and typical joints between concrete adjusting rings shall be a maximum 3/8 inch in thickness and a minimum width of 2 inches with a minimum of 50% compression. An Elastomeric Waterproof Seal shall be applied to the exterior of the chimney.

INTERNAL CHIMNEY SEAL

Chimney Seals shall be manufactured seals installed on new or existing sanitary manholes. The flexible portion of the seal shall be natural or synthetic rubber conforming to applicable requirements of ASTM C-923. All metal parts shall be Type 304 stainless steel. The seal shall prevent leakage of water into the manhole at the area of the joint between the manhole frame, chimney, and corbel continuously throughout a 20-year design life. The seal shall remain flexible while allowing repeated vertical movements of the frame of up to two inches occurring at rates not less than 0.10 inches per minute.

ELASTOMERIC WATERPROOFING SEAL

All masonry work shall be cured a minimum of 24 hours prior to applying an elastomeric waterproofing seal. All surfaces shall be cleaned and primed in accordance with the manufacturer's recommendation. Elastomeric Waterproofing Sealer shall be applied so that it forms a continuous membrane, 100-mil thick, extending from a point 4 inches below the chimney to a point 2 inches above the frame flange. The ESD reserves the right to require bond breaker (duct tape) be placed completely around the manhole circumference and centered over the mortar joint between the frame and chimney or cone. Adjacent backfill shall not be placed within 24 hours of applying the sealer.

MORTAR

Mortar used in connection of rigid pipe to manholes not in active service, for construction of chimney joints, and for backplastering shall be 2 1/4 to 3 parts sand and one part of either a mixture of 50 percent Portland Cement/ 50 percent masonry cement or a mixture of 75 percent Portland Cement/ 25 percent hydrated lime and shall be carefully proportioned by volume. Prepackaged completely blended mortar meeting ASTM C-270 property Type M may be substituted for site mixed component mortar. Mortar shall be machine mixed for 3 to 5 minutes, except that manufacturers mixing instructions shall supercede this specification. Speed Crete Blue Line, or approved equal cement material intended for underwater use, shall be used for non-flexible connection of rigid pipe to manholes in service. All mortar shall be smooth trowel finished.

CONCRETE

Portland Cement Concrete shall be composed of a mixture of Portland Cement, fine and course aggregates, and water. The air content shall be between 4% and 7%. Aggregate gradations shall meet ASTM C-33 Size 67 or Size 467.

1. Class A Concrete Class A Concrete shall contain a minimum of 7.0 bags of cement per cubic yard. Maximum allowable slump shall be 3". A minimum of 3 cylinders shall be made by the Contractor in accordance with ASTM C-31 for each pour. Not less than 2 cylinders shall be tested for 28-day compressive strength in accordance with ASTM C-39 for each pour. Class A Concrete shall have a minimum 28-day compressive strength of 4,000 PSI.
2. Class C Concrete Class A Concrete shall be substituted for Class C Concrete.
3. Class D Concrete Class A Concrete shall be substituted for Class D Concrete.

PHASING & CONSTRUCTION SCHEDULE

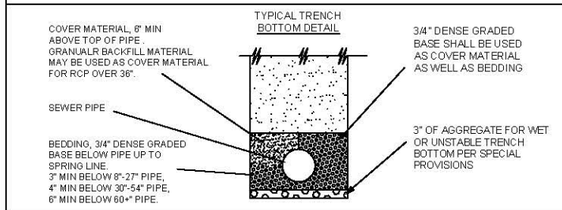
A Phasing & Construction Schedule shall be submitted to the ESD upon request. The Phasing & Construction Schedule shall indicate the Contractor's plan for progression of the Work.

CONSTRUCTION QUALITY TESTING

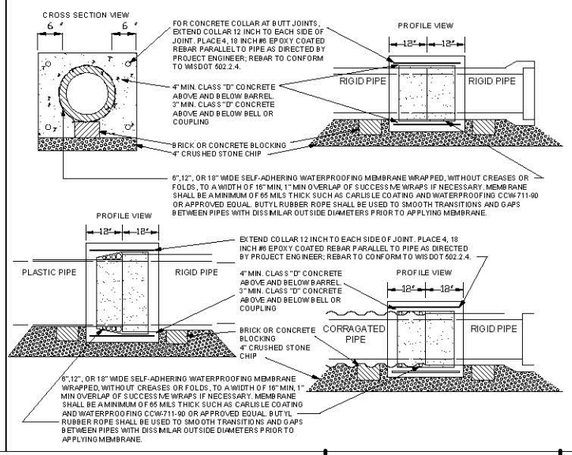
Project acceptance shall not occur until all of the Construction Quality Testing reports have been delivered and approved by the ESD. Personnel certified for the applicable class of testing shall perform construction quality testing. All construction quality testing must be performed under the observation of the ESD (this requirement does not apply to materials testing such as gradation testing, concrete compressive strength testing, and other laboratory testing) and written notice must be provided to the ESD 3 business days prior to testing. All construction quality testing reports shall include testing methods and results of the testing. The reports shall clearly indicate any deficiencies observed.

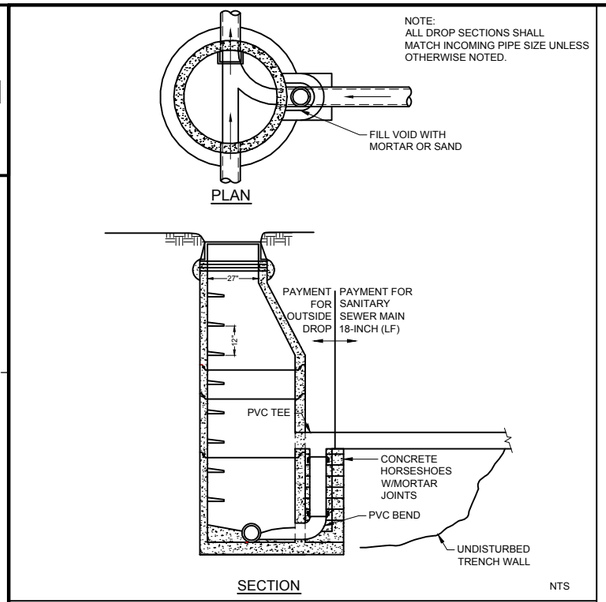
1. Deflection Testing Deflection tests shall be performed for flexible pipe installations. The deflection test shall be performed using a rigid ball or a mandrel and shall be performed without mechanical pulling devices. If deflection testing occurs within 30 days of placement of the final backfill, deflection may not exceed 5%. Maximum deflection may not exceed 7.5% when testing occurs more than 30 days after placement of the final backfill.
2. Televising Televising inspection shall be performed for all sewer installations. Digital video and a televising report shall be submitted for each inspection. Analog video is generally not acceptable under this specification. The video shall be produced such that the display indicates the date of televising, line number, direction of travel, and relative position (footage count) of the camera for the duration of televising. The video shall be produced with a "crawler" or "tractor" type camera, or other device approved by the ESD, so that the camera retains a generally vertical alignment. The device shall maintain the camera near the center of the pipe being inspected. The resolution, lighting, and contrast shall be adequate to capture details within the pipe. The use of "pan and tilt" is required for all inspections. Black and white video does not meet the requirements of this specification.
3. Leakage Testing Groundwater infiltration into gravity sewer systems shall be minimized. All sanitary sewers, except relays with active connected building sewers, shall be leakage tested in accordance with Chapter 3.7.0 of the most current edition of Standard Specifications for Sewer & Water Construction in Wisconsin.

TYPICAL TRENCH BOTTOM DETAIL



CONCRETE COLLAR DETAIL 8"-42" PIPE

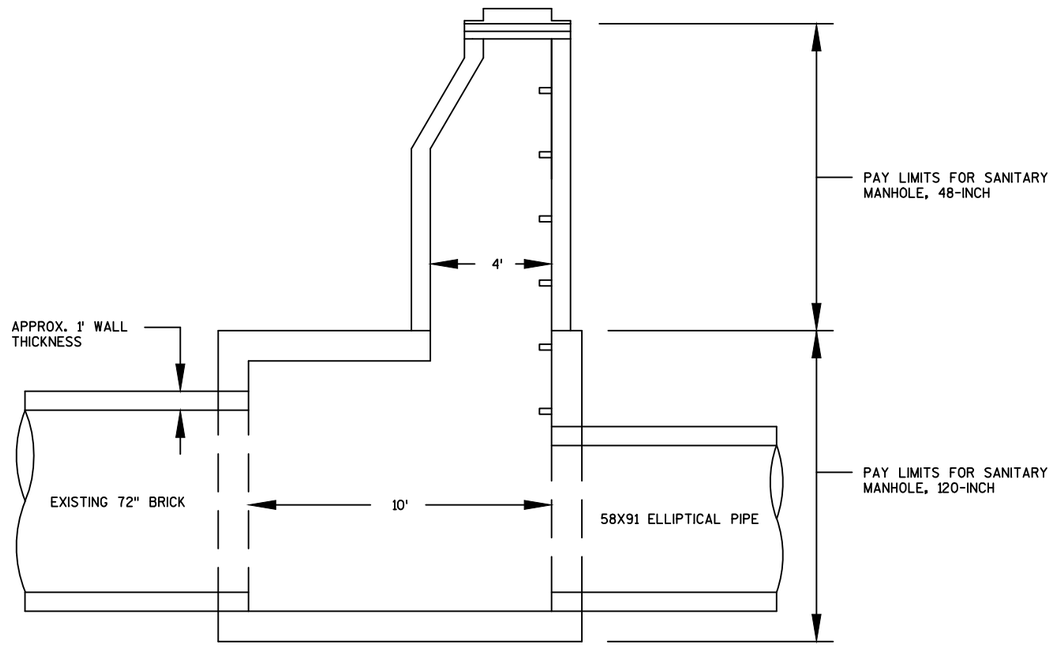




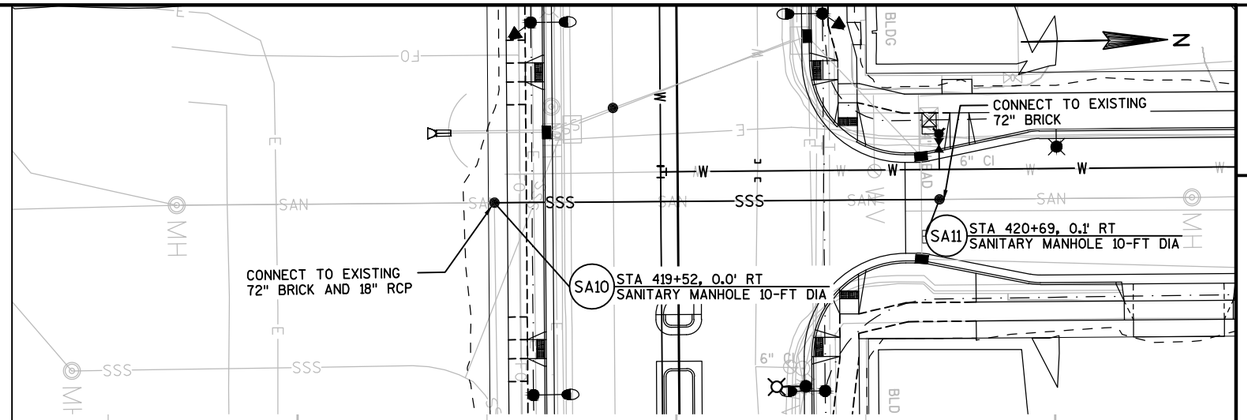
SANITARY SEWER OUTSIDE DROP MANHOLE

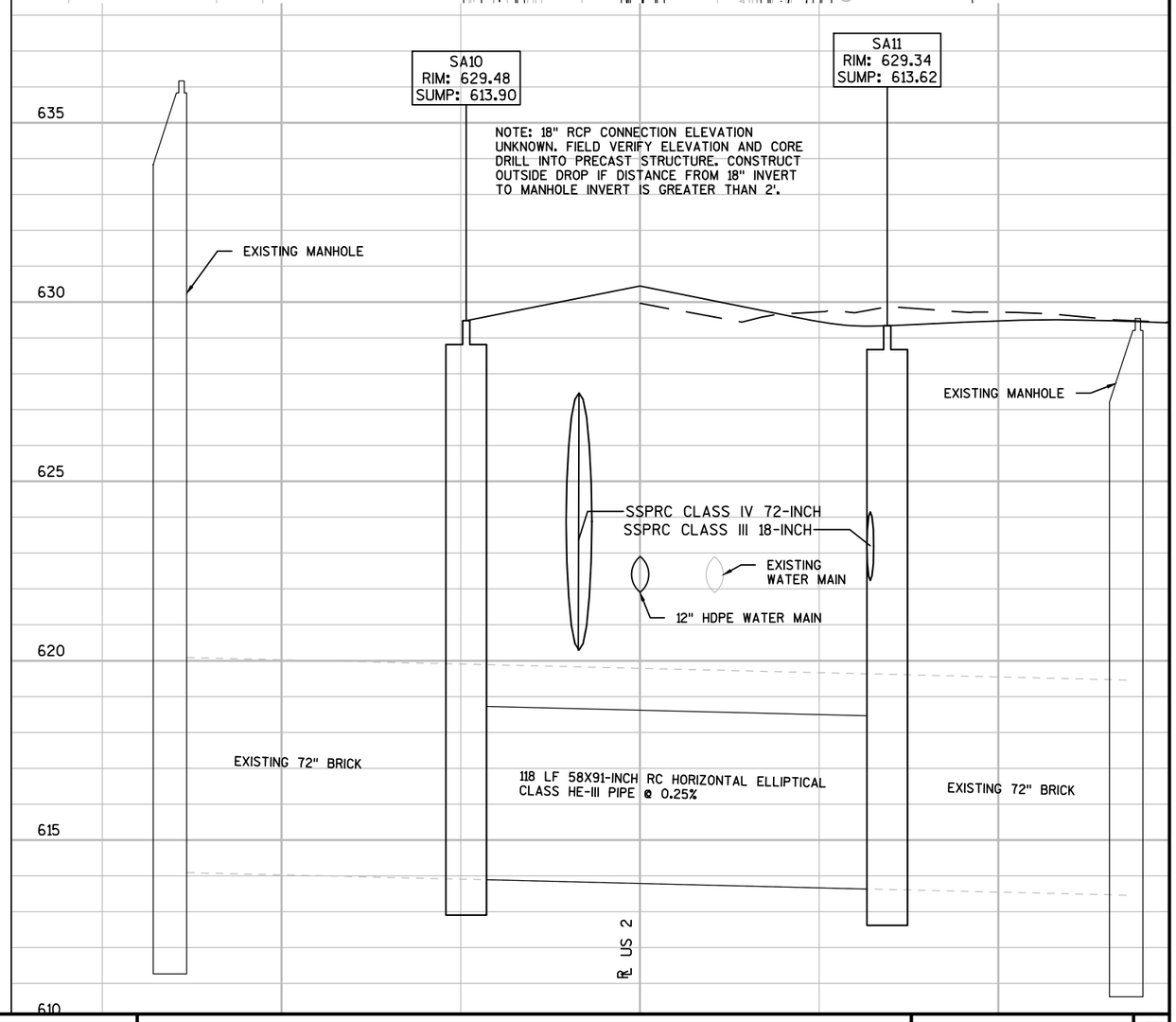


08/01/2016

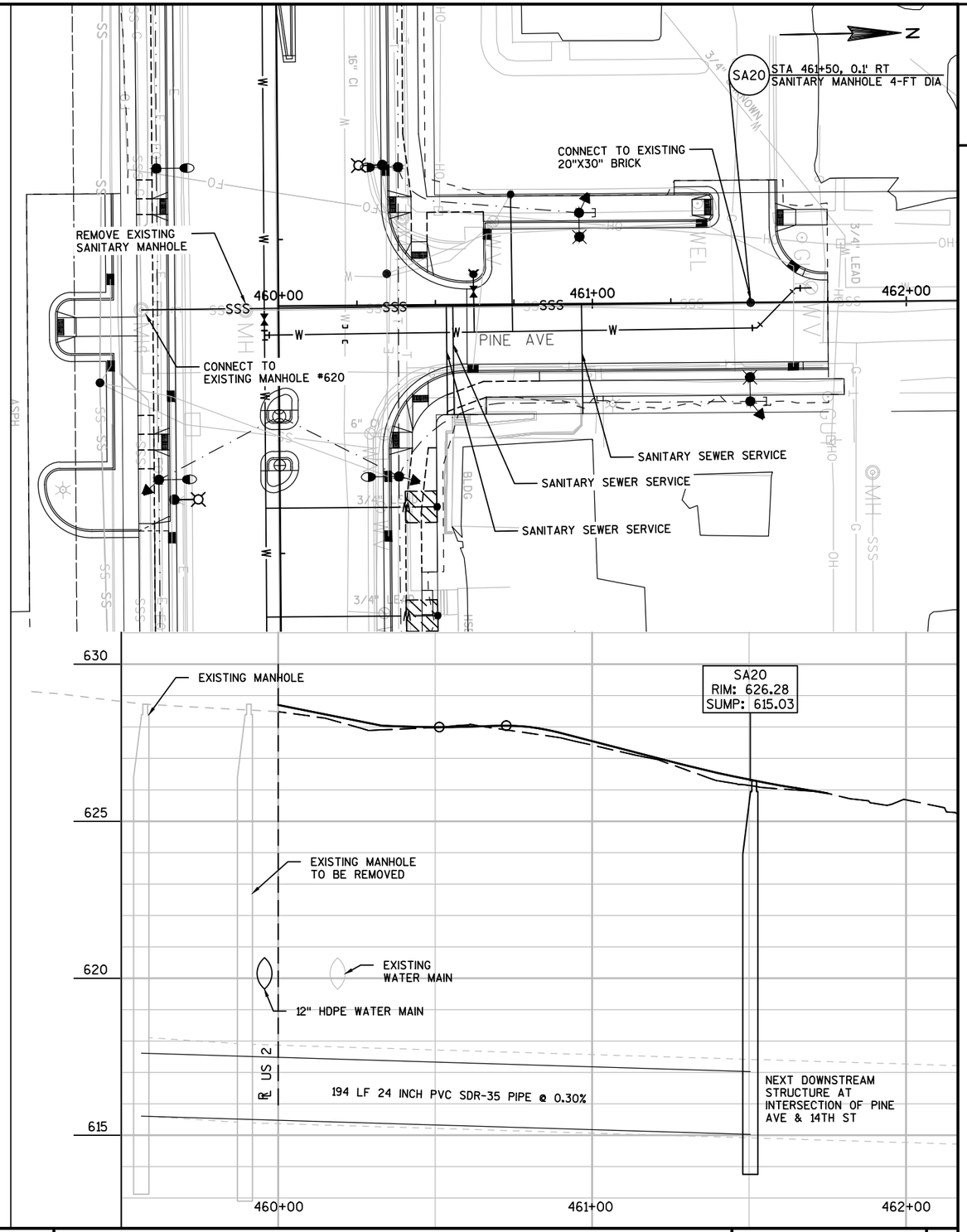


120" SANITARY MANHOLE DETAIL
N.T.S.

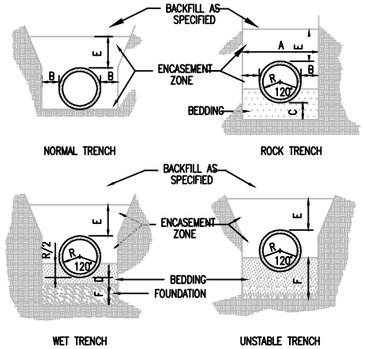




PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: BIRCH AVENUE	SHEET 137	E

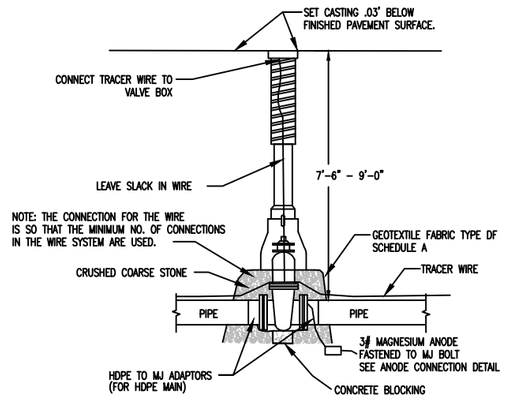


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: PINE AVENUE	SHEET 138	E



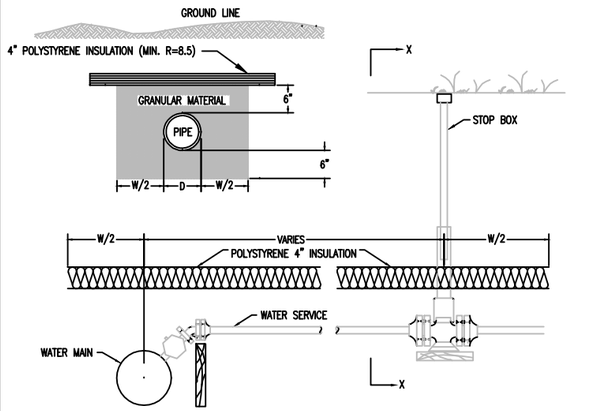
1. DIMENSIONS: A. MAXIMUM PAY WIDTH – O.D. PIPE +24"
   B. MINIMUM – 6"
   C. 6" BELOW BARREL
   D. 3" BELOW BARREL
   E. MINIMUM 12"
   F. DETERMINED BY THE ENGINEER
2. ENCASEMENT ZONE SHALL BE EXCAVATED MATERIALS THAT ARE CLASSIFIED SUITABLE, OR GRANULAR BACKFILL MATERIAL.
3. FOUNDATION MATERIAL – 3" CRUSHED STONE FOR WET OR UNSTABLE TRENCH BOTTOM.
4. BEDDING MATERIAL – CRUSHED STONE CHIPS

TRENCH SECTION FOR WATER MAIN
NTS



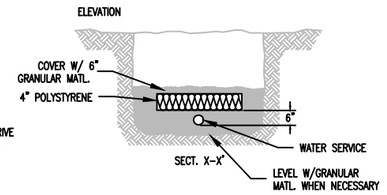
NOTES:
1. VALVES SHALL BE CONNECTED DIRECTLY TO HDPE WITH HDPE TO MECHANICAL JOINT ADAPTERS ON HDPE MAINS.
2. USE EPOXY COATING ON EXTERIOR OF VALVES.
3. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL WITH 6 OUNCE ZINC ANODE CAPS CONFORMING TO ASTM B-418 FOR ALL MECHANICAL FITTINGS.
4. FOR OPEN CUT PIPE INSTALLATIONS, ELECTROFUSION COUPLINGS ARE NOT ALLOWED FOR CONNECTION OF HDPE TO MJ ADAPTERS. FOR DIRECTIONAL DRILLED INSTALLATIONS, ONE ELECTROFUSION COUPLING MAY BE USED PER VALVE.

WATER MAIN VALVE DETAIL
NTS

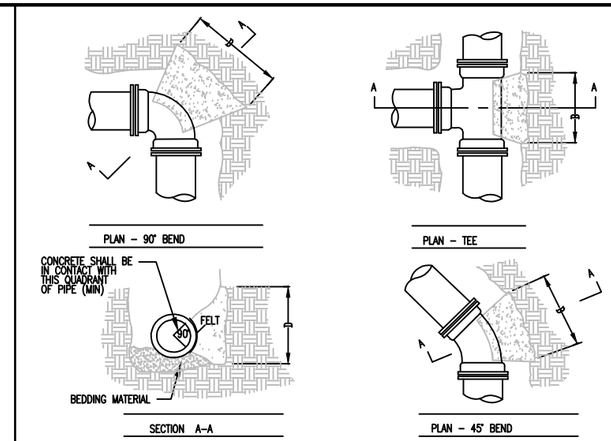


DEPTH (D)	WIDTH (W)
7.5' OR MORE	NONE
5.2' TO 7.4'	4 FEET
4.3' TO 5.1'	6 FEET
3.0' TO 4.2'	8 FEET

NOTES:
1. LAYERING OF 1", 1 1/2", 2" TO ARRIVE AT 4" IS PERMITTED. OFFSET JOINTS.
2. POLYSTYRENE SHALL BE HI DENSITY DOW HI 40 OR CERTIFOAM 40



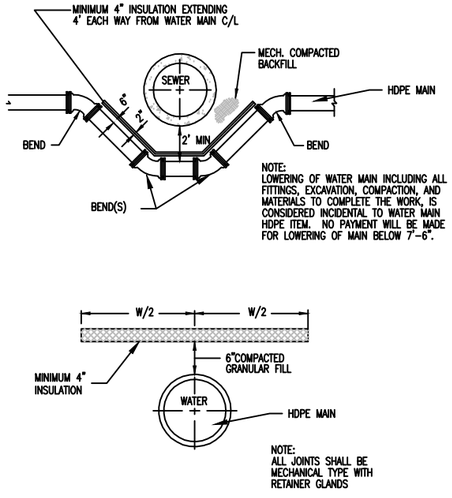
WATER MAIN & SERVICE INSULATION DETAIL
NTS



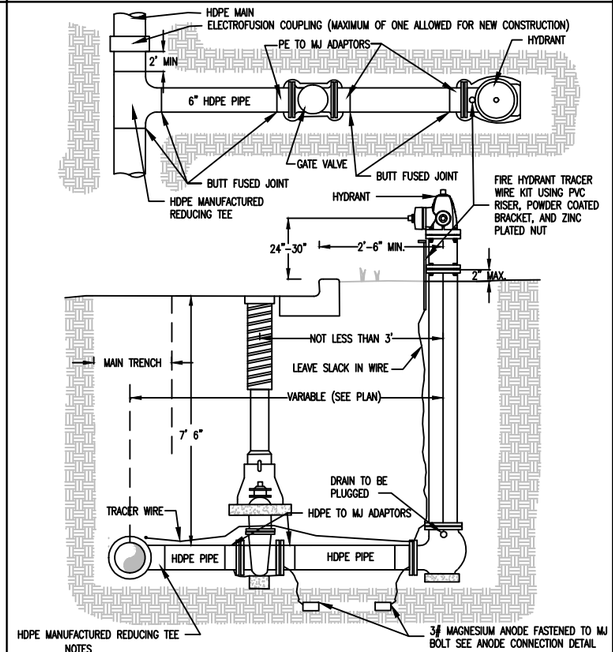
BEND OR BRANCH SIZE	22 1/2° BENDS		45° BENDS		90° BENDS		TEES	
	B	D	B	D	B	D	B	D
6"	1'–0"	1'–0"	1'–0"	1'–0"	1'–4"	1'–2"	1'–3"	1'–0"
8"	1'–0"	1'–0"	1'–4"	1'–2"	1'–10"	1'–6"	1'–6"	1'–4"
12"	1'–4"	1'–4"	1'–10"	1'–10"	2'–8"	2'–3"	2'–3"	2'–0"
16"	1'–10"	1'–8"	2'–6"	2'–4"	3'–10"	2'–10"	3'–2"	2'–4"
20"	2'–4"	2'–0"	3'–3"	2'–10"	5'–0"	3'–4"	4'–0"	3'–0"
24"	2'–10"	2'–4"	4'–0"	3'–3"	6'–4"	3'–10"	5'–3"	3'–4"
30"	3'–6"	3'–0"	5'–4"	3'–10"	8'–0"	4'–8"	6'–3"	4'–3"

NOTES
1. DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FOOT
2. BLOCKING TO BE SET AGAINST UNDISTURBED SOIL.
3. CONCRETE SHALL BE CLASS "1F". CONCRETE SHALL NOT INTERFERE WITH MECHANICAL JOINTS.

THRUST BLOCKING FOR WATER MAIN
NTS

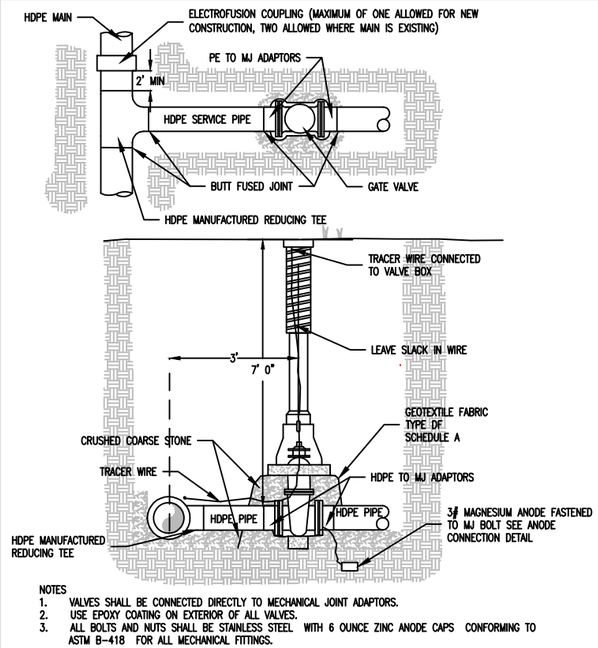


LOWER WATER MAIN W/INSULATION
NTS



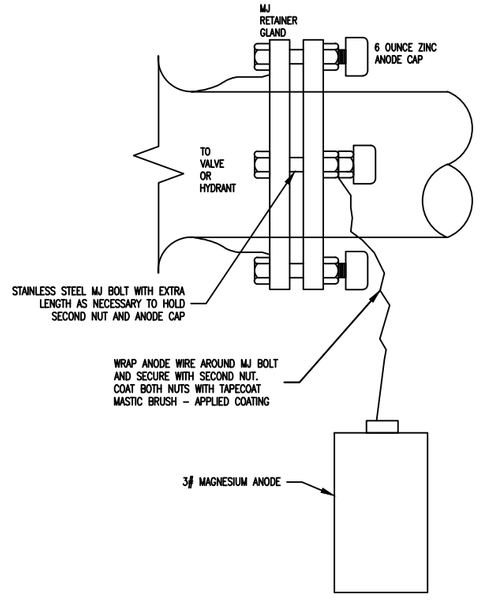
NOTES
1. VALVES SHALL BE CONNECTED DIRECTLY TO MECHANICAL JOINT ADAPTORS.
2. USE EPOXY COATING ON VALVE AND HYDRANT BASE
3. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL WITH 6 OUNCE ZINC ANODE CAPS CONFORMING TO ASTM B-418 FOR ALL MECHANICAL FITTINGS.

FIRE HYDRANT SETTING DETAIL
NTS



NOTES
1. VALVES SHALL BE CONNECTED DIRECTLY TO MECHANICAL JOINT ADAPTORS.
2. USE EPOXY COATING ON EXTERIOR OF ALL VALVES.
3. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL WITH 6 OUNCE ZINC ANODE CAPS CONFORMING TO ASTM B-418 FOR ALL MECHANICAL FITTINGS.
4. FOR OPEN CUT PIPE INSTALLATIONS, ELECTROFUSION COUPLINGS ARE NOT ALLOWED FOR CONNECTION OF HDPE TO MJ ADAPTERS. FOR DIRECTIONAL DRILLED INSTALLATIONS, ONE ELECTROFUSION COUPLING MAY BE USED PER VALVE.

COMMERCIAL/INDUSTRIAL WATER SERVICE CONNECTION
NTS

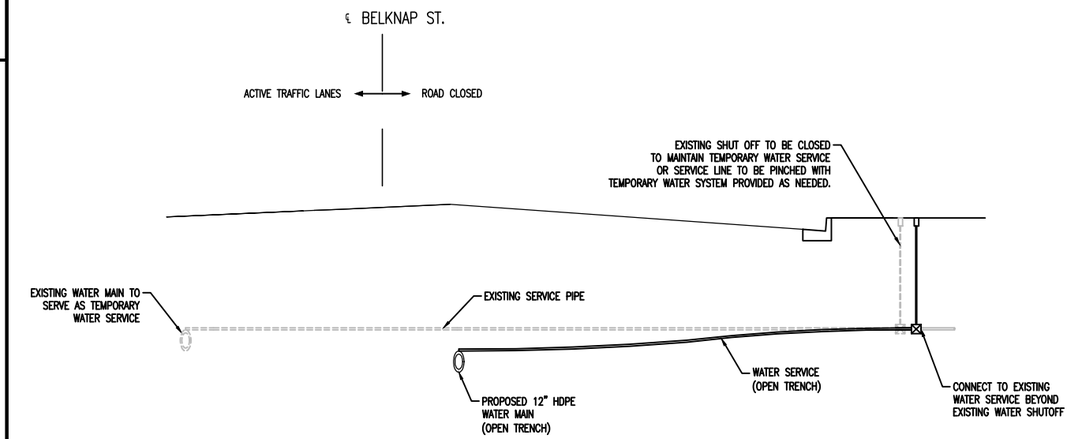


ANODE CONNECTION DETAIL
NTS

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	CONSTRUCTION DETAILS - WATER MAIN	SHEET 139	E

NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

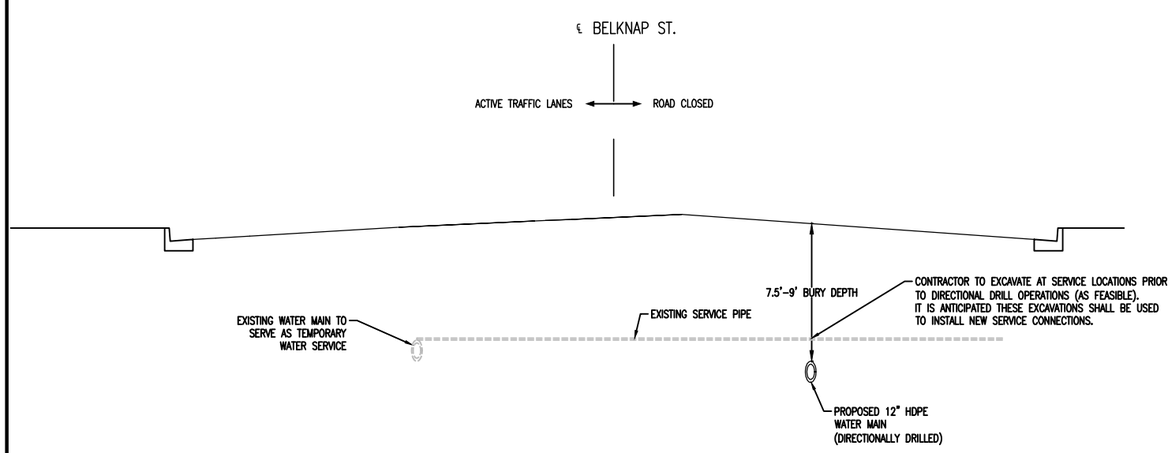


NTS

US2 – TYPICAL SERVICE CROSSING RT
STA 149+00 – STA 164+00
STA 191+50 – STA 209+00

NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

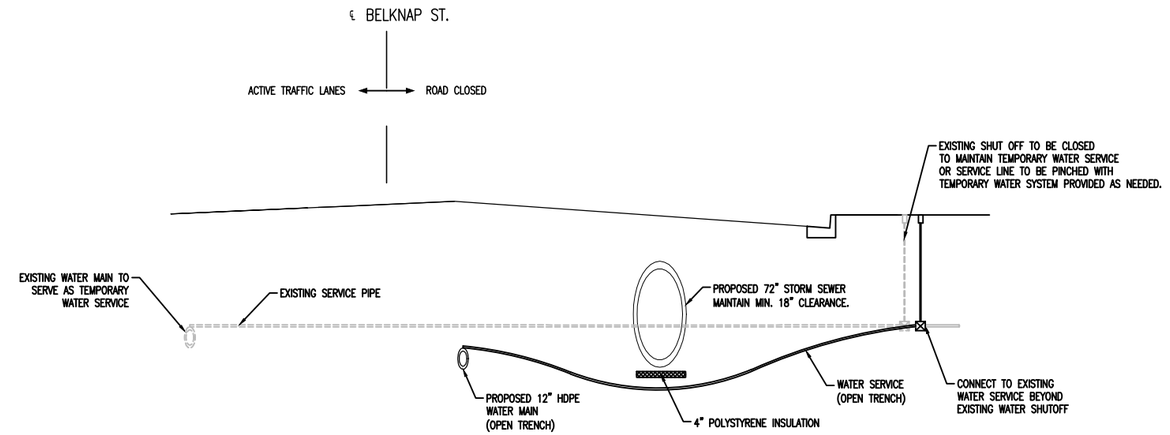


NTS

US2 – MAINLINE INSTALLATION
DIRECTIONALLY DRILLED AREAS

NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

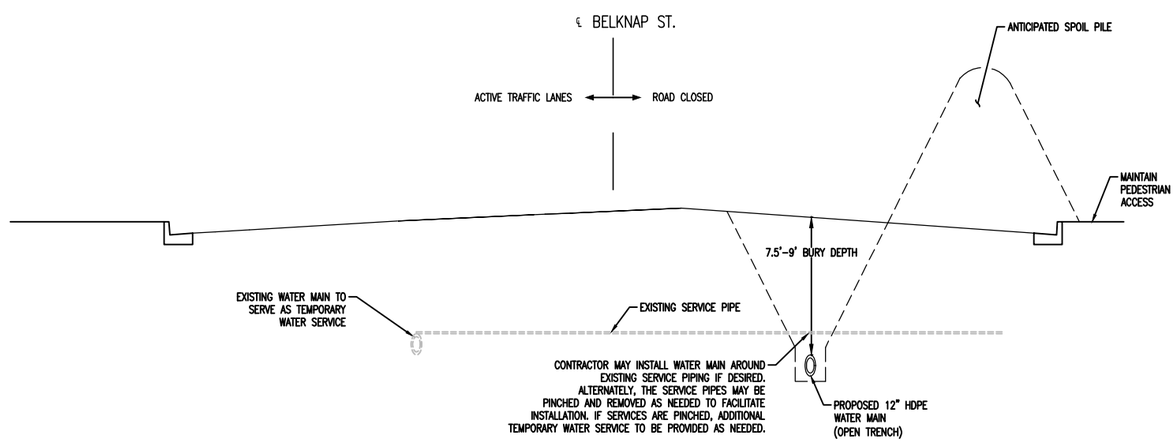


NTS

US2 – TYPICAL SERVICE CROSSING RT
STA 164+00 – STA 191+50

NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

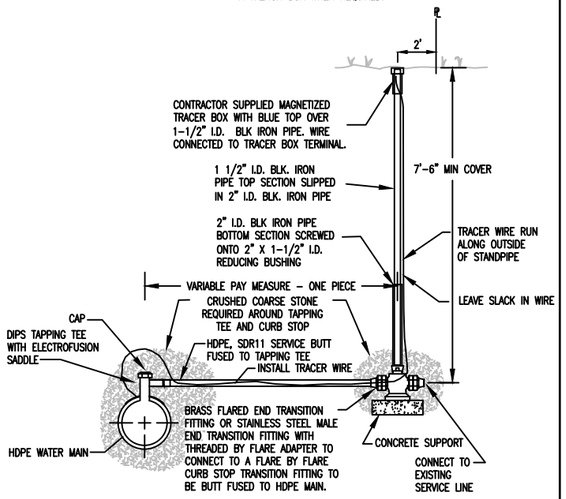
ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.



NTS

US2 – MAINLINE INSTALLATION
OPEN TRENCH AREAS

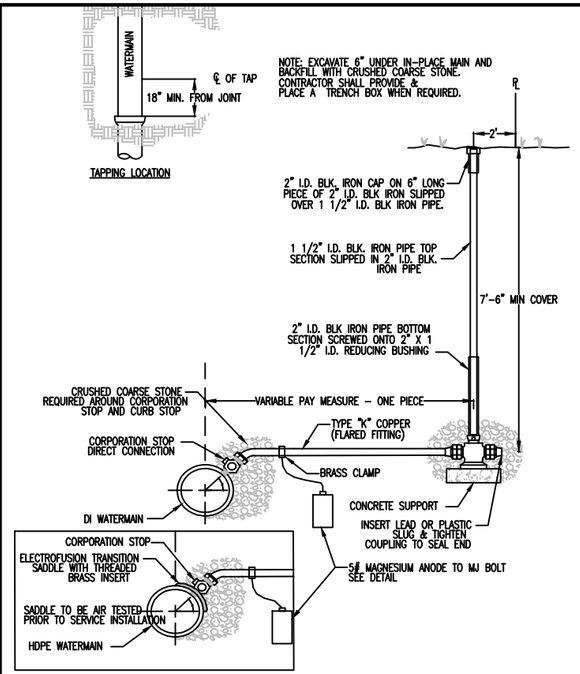
NOTE: EXCAVATE 6" UNDER IN-PLACE MAIN AND BACKFILL WITH CRUSHED COARSE STONE. CONTRACTOR SHALL PROVIDE & PLACE A TRENCH BOX WHEN REQUIRED.



NOTE: SERVICE TO BE AIR TESTED PRIOR TO TAPPING MAIN

THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT OR COMPRESSION TYPE CONNECTORS. WIRE NUTS OR CLIP TYPE CONNECTOR SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

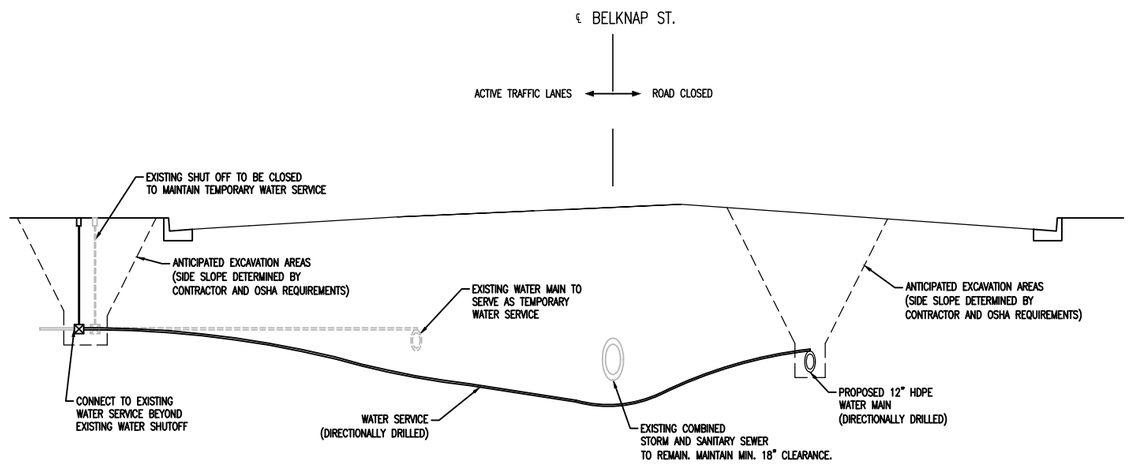
TYPICAL HDPE WATER SERVICE – 1", 1-1/4", 1-1/2", AND 2"
NTS



TYPICAL COPPER WATER SERVICE – 1", 1-1/4", 1-1/2", AND 2"
NTS

NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

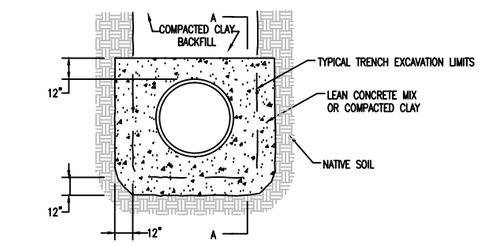
ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

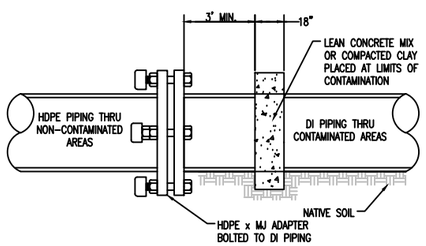


NTS

US2 – TYPICAL SERVICE CROSSING LT
STA 137+00 – STA 149+00

NOTES:
FORMS (IF USED) MAY BE LEFT IN PLACE
TRENCH DAMS SHALL BE INCIDENTAL, NO DIRECT PAYMENT SHALL BE MADE.



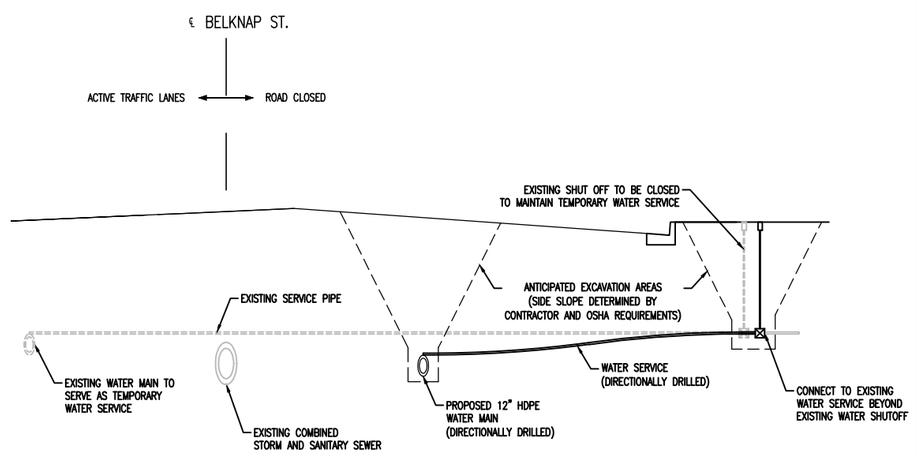


SECTION A-A
N.T.S.

TRENCH DAM
NTS

NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

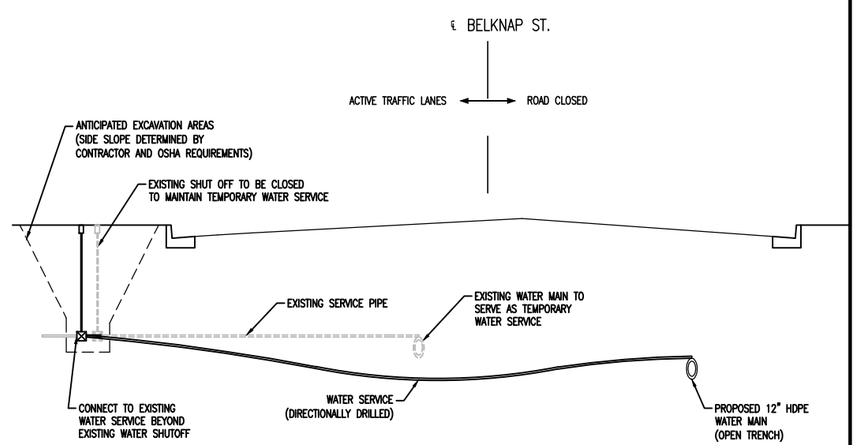


NTS

US2 – TYPICAL SERVICE CROSSING RT
STA 137+00 – STA 149+00

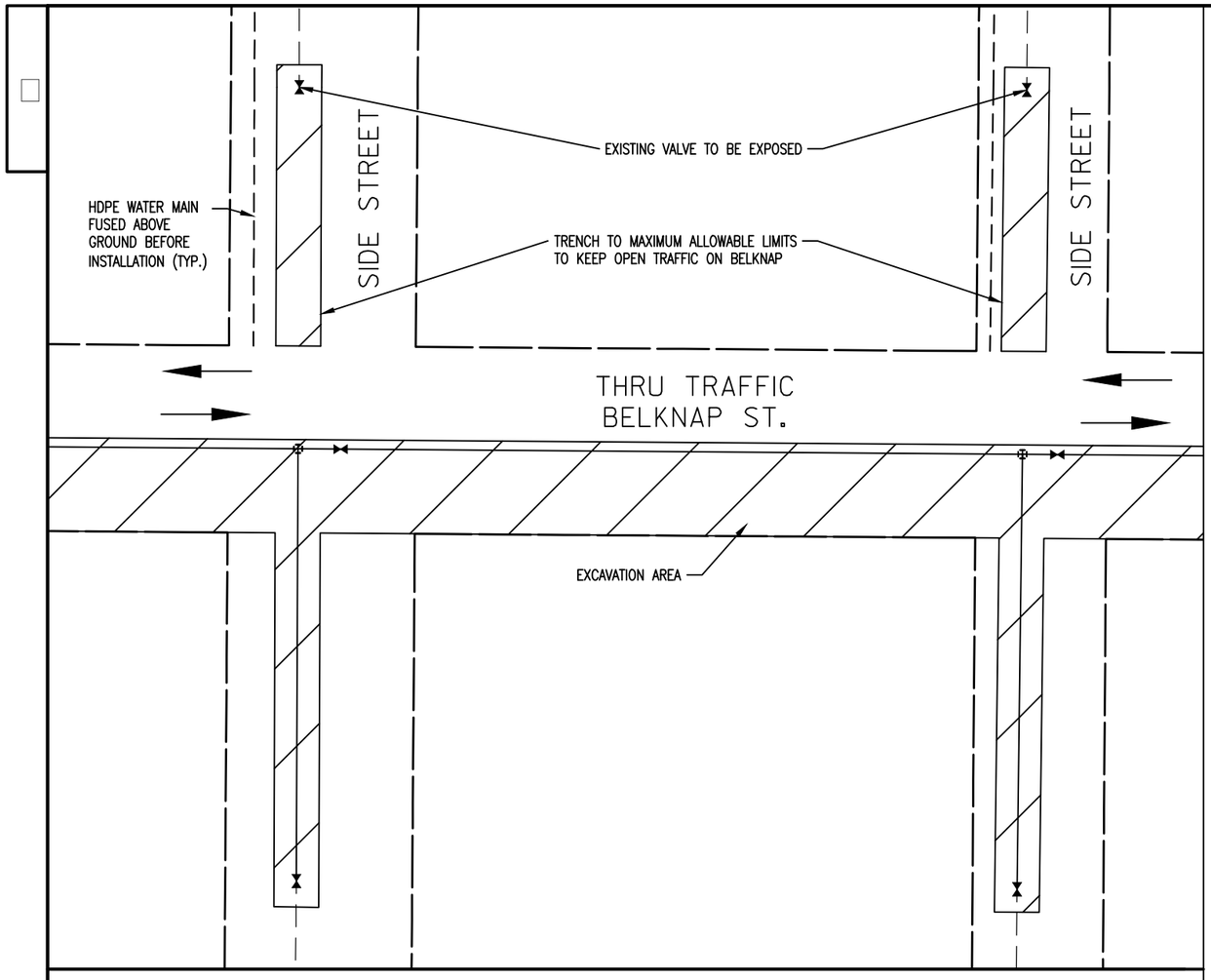
NOTES:
OTHER UTILITY CROSSINGS MAY EXIST THAT ARE NOT SHOWN IN THIS DETAIL. SEE PLAN AND PROFILE SHEETS.

ALTERNATIVE OPTIONS FOR TEMPORARY WATER AND INSTALLATION OF WATER SYSTEM MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

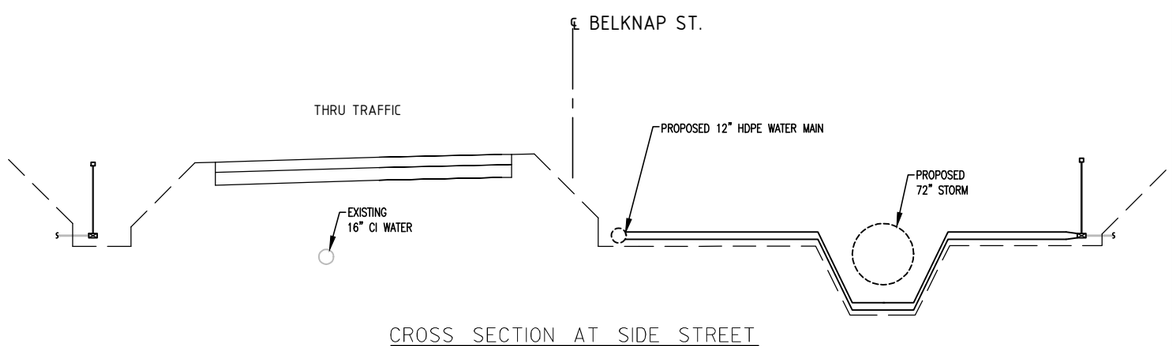


NTS

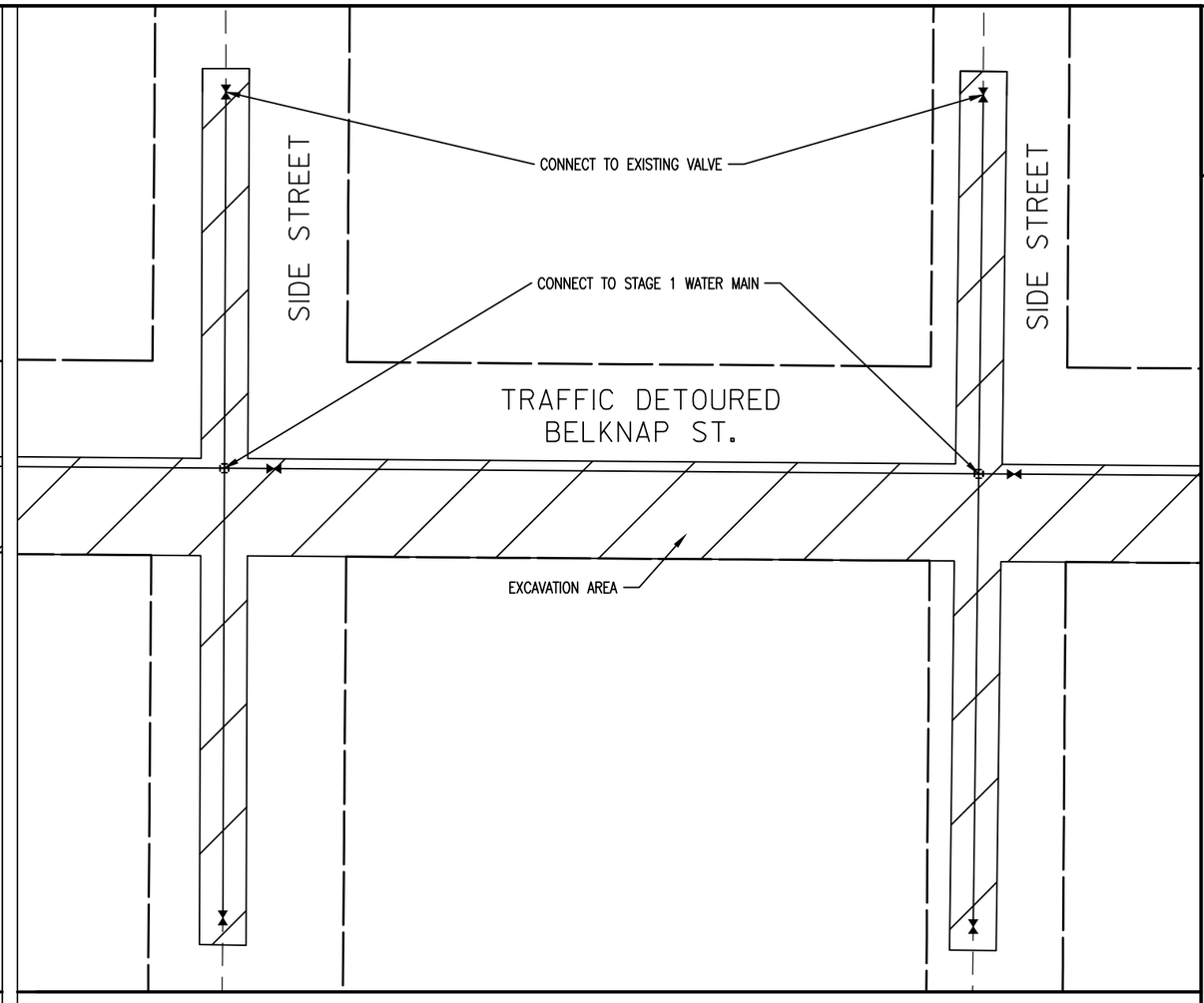
US2 – TYPICAL SERVICE CROSSING LT
STA 149+00 – STA 209+00



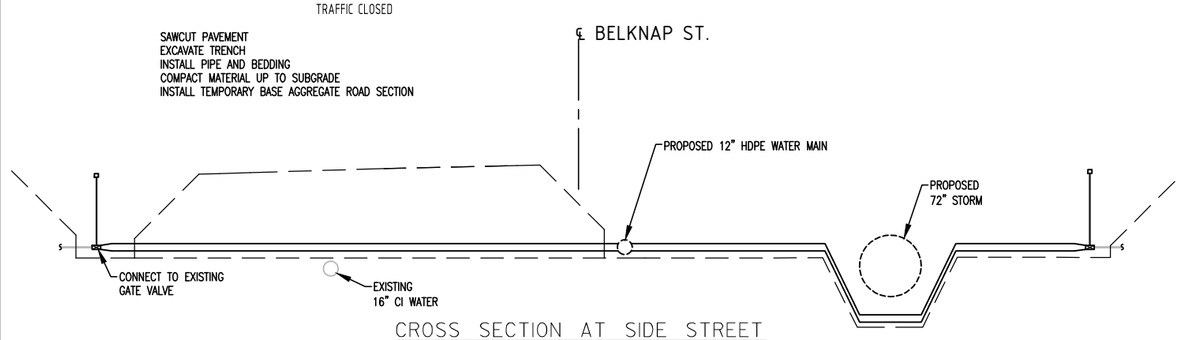
STAGE 1



CROSS SECTION AT SIDE STREET

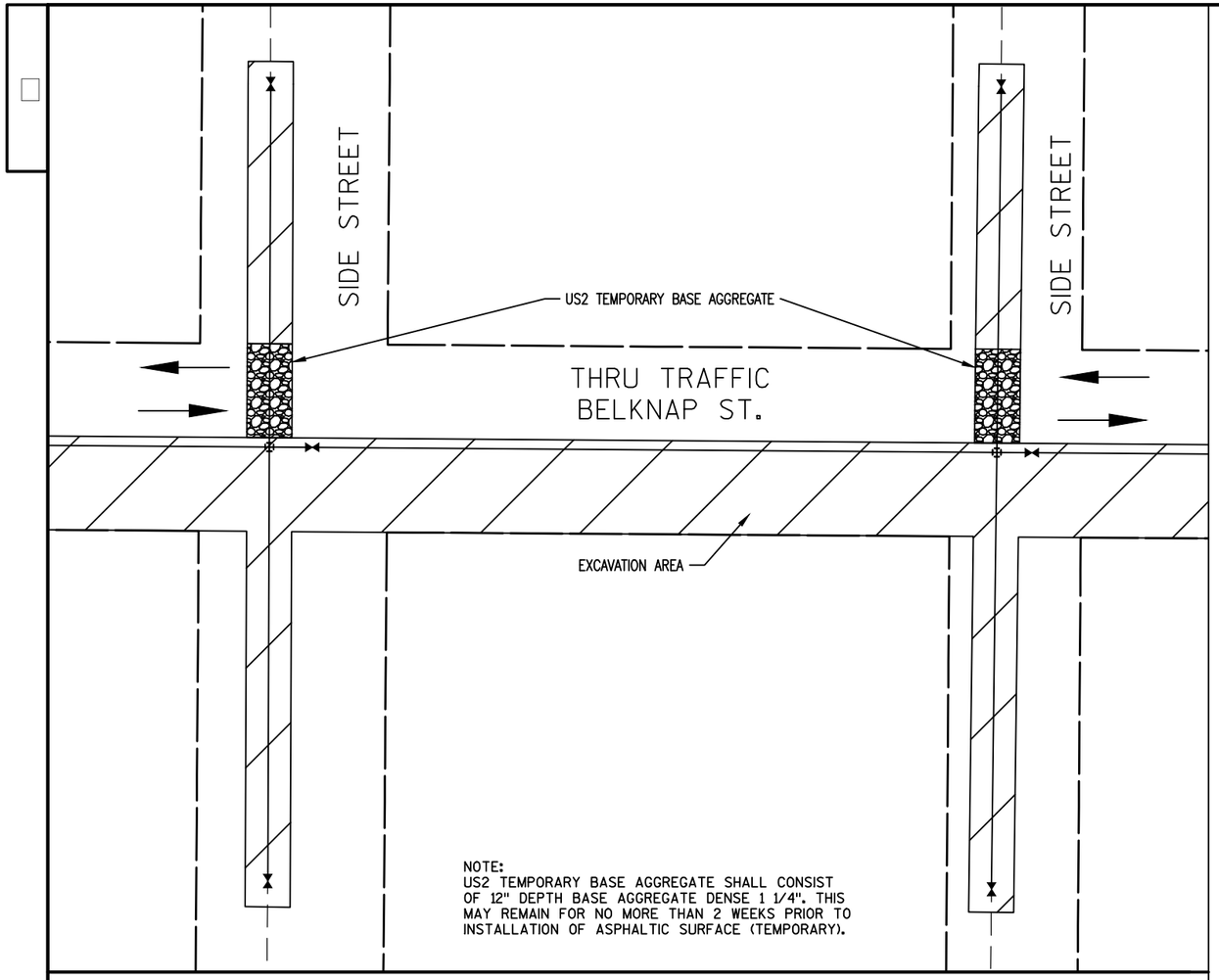


STAGE 2

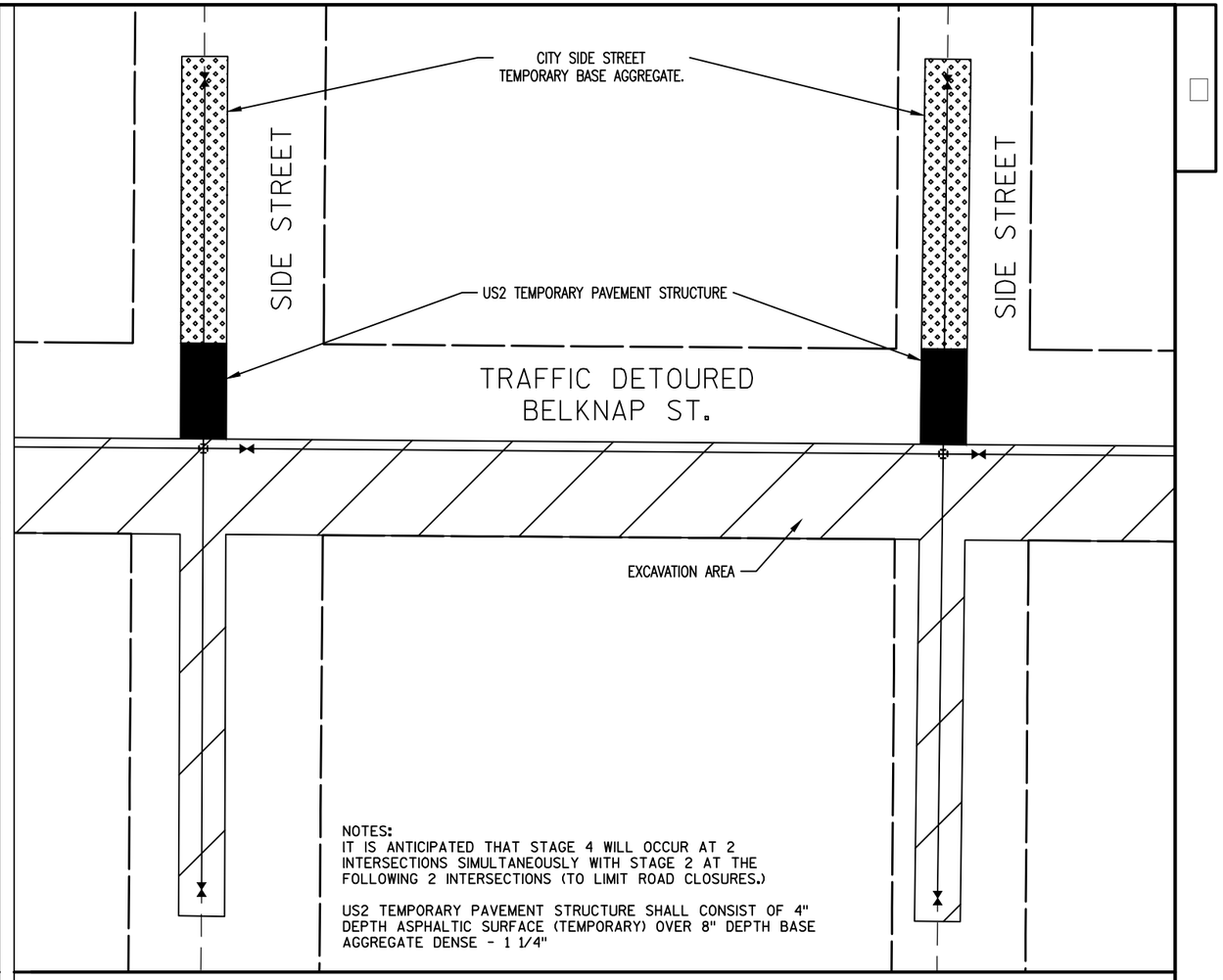


CROSS SECTION AT SIDE STREET

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	CONSTRUCTION DETAILS - WATER MAIN SIDE STREET CONNECTIONS	SHEET 142	E



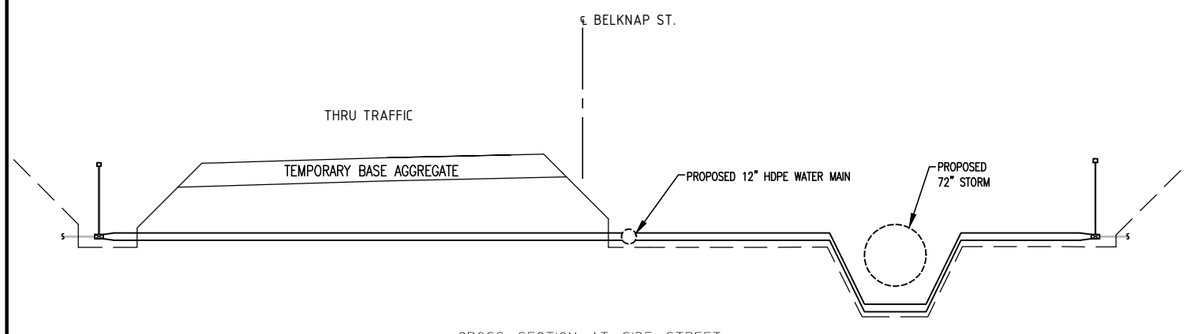
NOTE:
US2 TEMPORARY BASE AGGREGATE SHALL CONSIST OF 12" DEPTH BASE AGGREGATE DENSE 1 1/4". THIS MAY REMAIN FOR NO MORE THAN 2 WEEKS PRIOR TO INSTALLATION OF ASPHALTIC SURFACE (TEMPORARY).



NOTES:
IT IS ANTICIPATED THAT STAGE 4 WILL OCCUR AT 2 INTERSECTIONS SIMULTANEOUSLY WITH STAGE 2 AT THE FOLLOWING 2 INTERSECTIONS (TO LIMIT ROAD CLOSURES.)

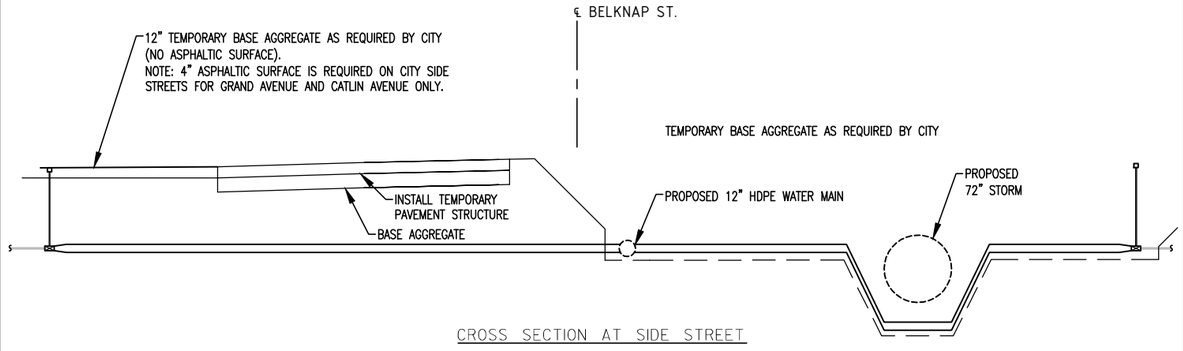
US2 TEMPORARY PAVEMENT STRUCTURE SHALL CONSIST OF 4" DEPTH ASPHALTIC SURFACE (TEMPORARY) OVER 8" DEPTH BASE AGGREGATE DENSE - 1 1/4"

STAGE 3



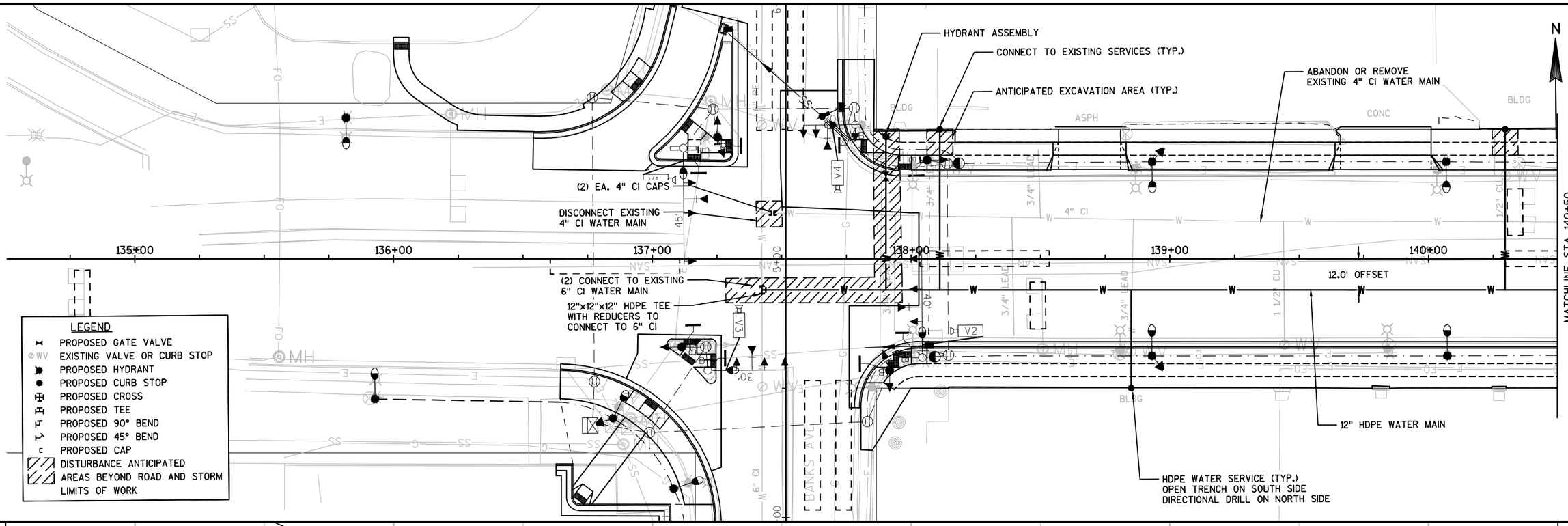
CROSS SECTION AT SIDE STREET

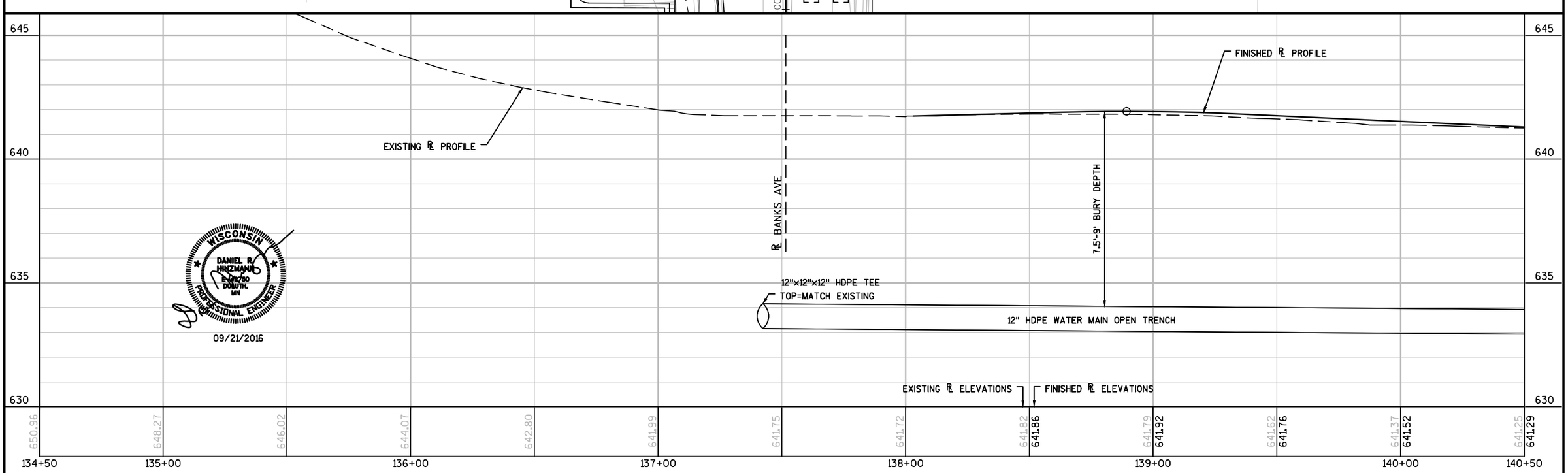
STAGE 4



CROSS SECTION AT SIDE STREET

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	CONSTRUCTION DETAILS - WATER MAIN SIDE STREET CONNECTIONS	SHEET 143	E





WISCONSIN
DANIEL R HINZMANN
E-28750
DULUTH, MN
PROFESSIONAL ENGINEER
09/21/2016

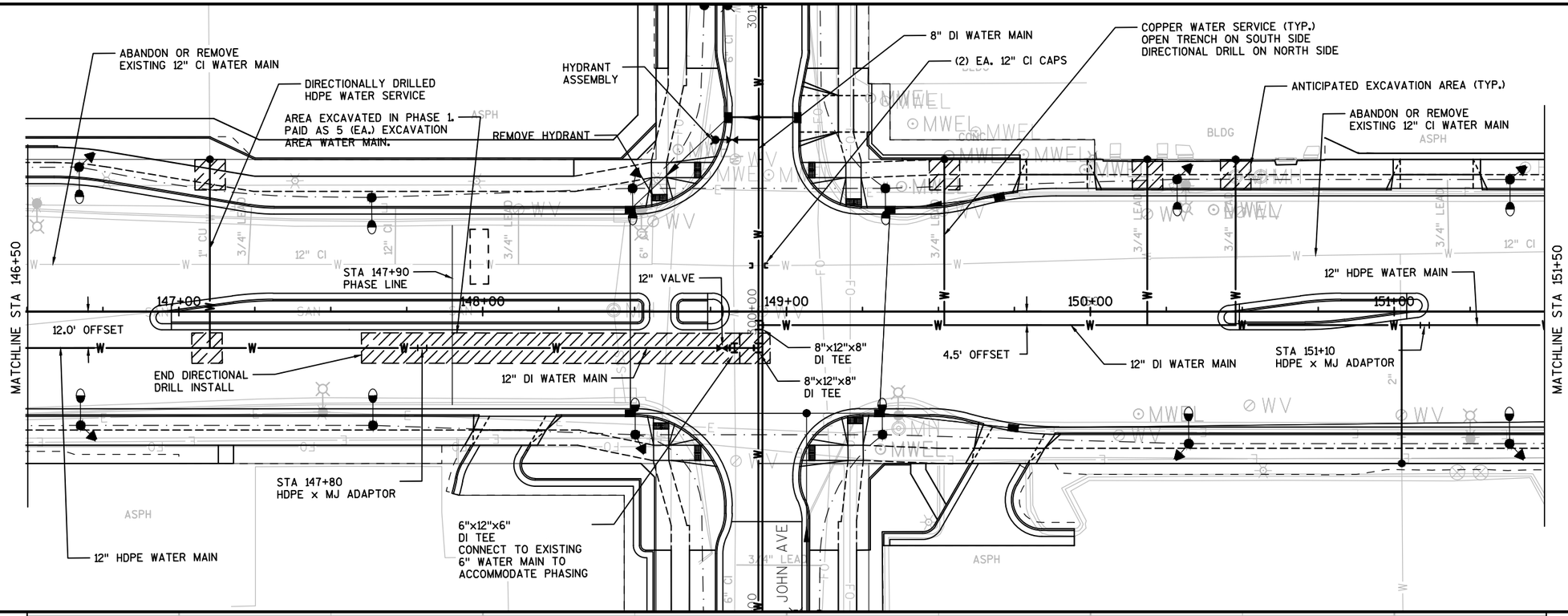
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 144	E

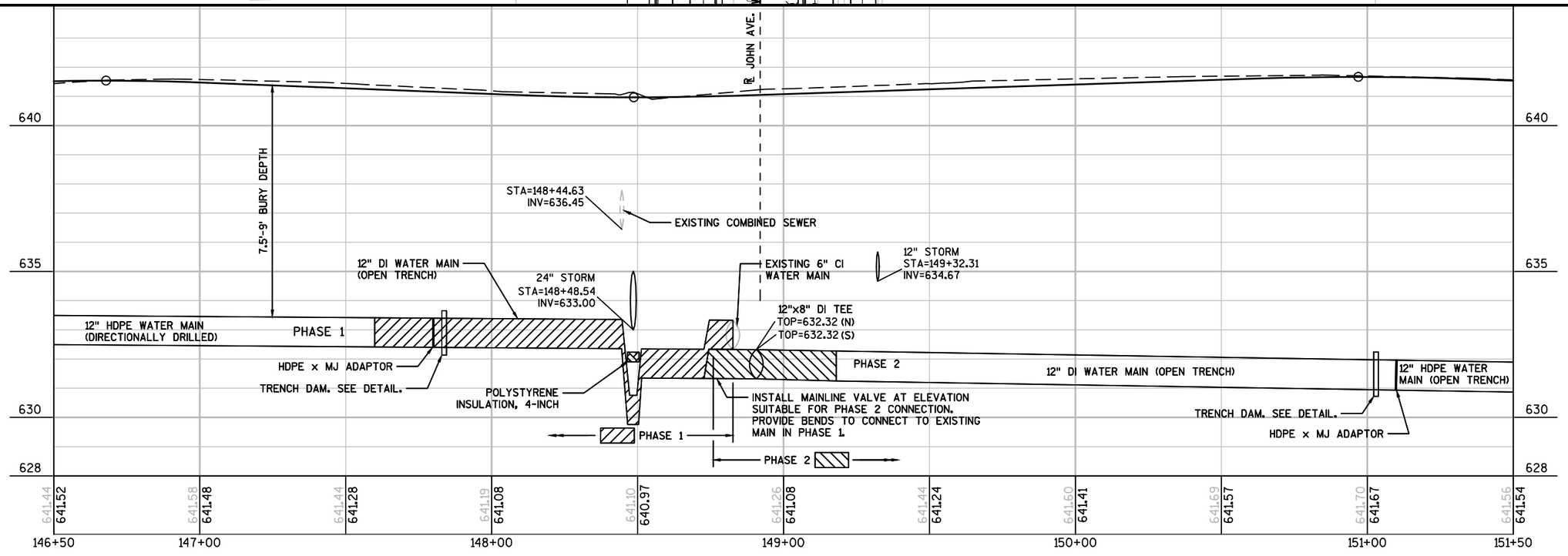
ABANDON OR REMOVE EXISTING 4" CI WATER MAIN
HYDRANT ASSEMBLY (DIRECTIONALLY DRILLED)
4" CI CAP
12" CI CAP
REMOVE OR ABANDON VALVE VAULT
CONNECT TO EXISTING WATER VALVE
12" HDPE WATER MAIN
REMOVE HYDRANT
ABANDON OR REMOVE EXISTING 12" CI WATER MAIN
DIRECTIONALLY DRILLED HDPE WATER SERVICE (TYP.)
ANTICIPATED EXCAVATION AREA (TYP.)
CONNECT TO EXISTING WATER VALVE
HYDRANT ASSEMBLY
REMOVE HYDRANT
8" DI WATER MAIN
(2) EA. 12" CI CAPS
ABANDON OR REMOVE EXISTING 12" CI WATER MAIN
MATCHLINE STA 140+50
MATCHLINE STA 146+50
141+00
142+00
143+00
144+00
145+00
146+00
12.0' OFFSET
REMOVE OR ABANDON VALVE VAULT
12"x12" HDPE CROSS
REMOVE VALVE VAULT
12" VALVE
12"x8" DI CROSS
REMOVE HYDRANT
INSTALL 12" VALVE
12" HDPE WATER MAIN
REMOVE VALVE VAULT
INSTALL 8" GATE VALVE
CONNECT TO EXISTING 6" CI USING REDUCER
STA 145+17
HDPE x MJ ADAPTOR
TOWER AVE
OGDEN AVE
BLDG
ASPH
CONC
N

℄ TOWER AVE.
7.5'-9' BURY DEPTH
℄ OGDEN AVE.
12"x12" HDPE CROSS
TOP=633.88
12" HDPE WATER MAIN (DIRECTIONALLY DRILLED)
12"x8" DI CROSS
TOP=633.60
TRENCH DAM. SEE DETAIL.
HDPE x MJ ADAPTOR

640
635
630
629

140+50	141+00	142+00	143+00	144+00	145+00	146+00	146+50
641.25 / 641.29	641.56 / 641.57	641.90 / 641.89	641.73 / 641.70	641.76 / 641.80	641.72 / 641.75	641.66 / 641.60	641.44 / 641.45	641.36 / 641.30	641.18 / 641.15	641.17 / 641.12	641.40 / 641.31	641.44 / 641.52





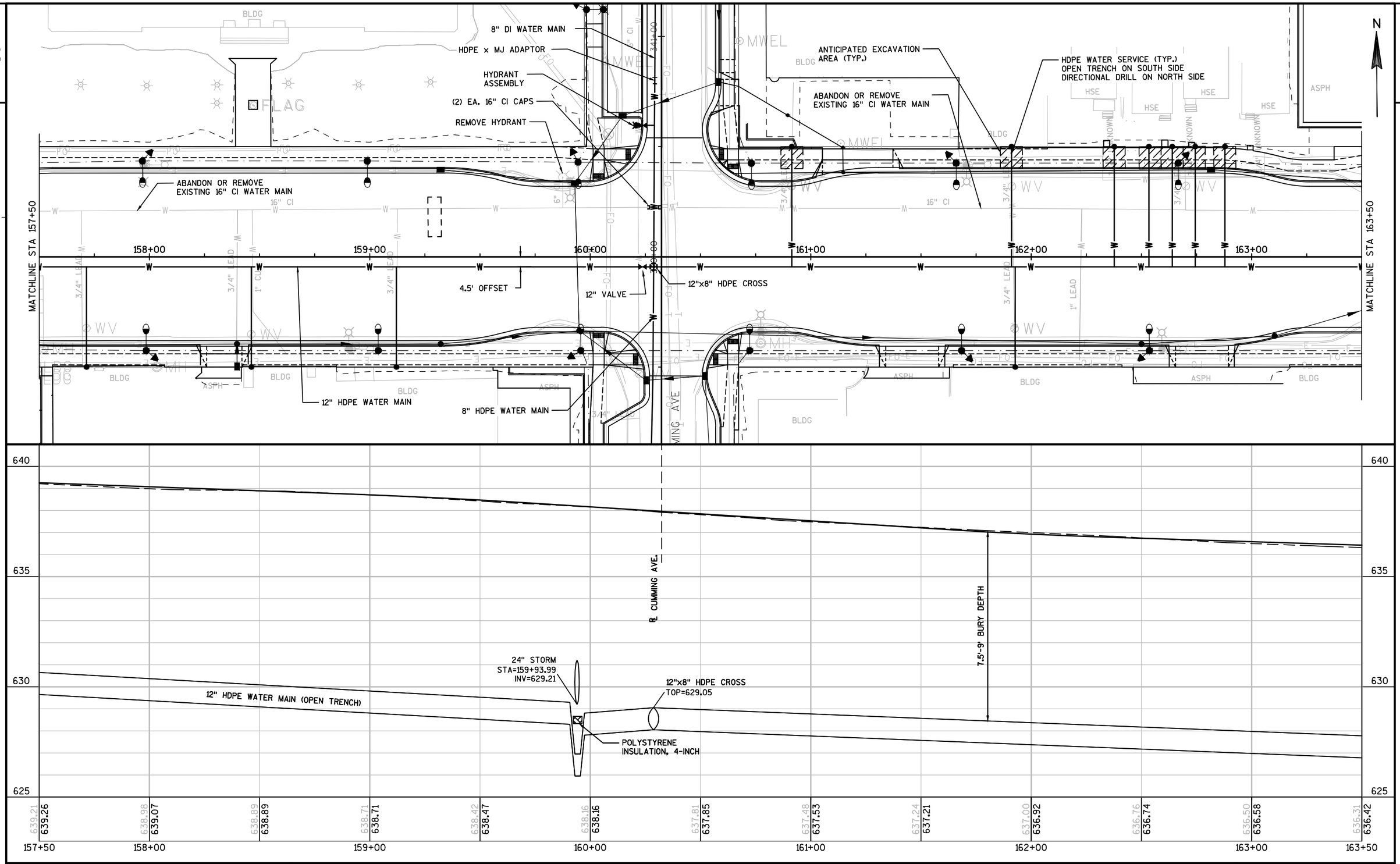
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 146	E

2

8" HDPE WATER MAIN
HYDRANT ASSEMBLY
ABANDON OR REMOVE EXISTING 12" CI WATER MAIN
REMOVE HYDRANT
NOTE: SERVICE PENETRATES THROUGH EXISTING VAULT. (INCIDENTAL) SERVICE TO BE REPLACED INSIDE BUILDING BY OTHERS. SEE DETAIL.
MATCHLINE STA 151+50
12" VALVE
12"x8" HDPE CROSS
8" DI WATER MAIN
HUGHITT AVE
(2) EA. 12" CI CAPS
HDPE WATER SERVICE (TYP.) OPEN TRENCH ON SOUTH SIDE DIRECTIONAL DRILL ON NORTH SIDE
ABANDON OR REMOVE EXISTING 12" CI WATER MAIN
ANTICIPATED EXCAVATION AREA (TYP.)
STA 153+75 HDPE x MJ ADAPTOR
12" HDPE WATER MAIN
COPPER WATER SERVICE OPEN TRENCH ON SOUTH SIDE DIRECTIONAL DRILL ON NORTH SIDE
COPPER WATER SERVICE DIRECTIONAL DRILL ON NORTH SIDE
4.5' OFFSET
12" DI WATER MAIN
HYDRANT ASSEMBLY
16" CI CAP
12" CI CAP
ABANDON OR REMOVE VALVE VAULT
12" VALVE
12"x12" DI CROSS
12" HDPE WATER MAIN
HAMMOND AVE
REMOVE HYDRANT
STA 157+05 HDPE x MJ ADAPTOR
MATCHLINE STA 157+50
152+00 153+00 154+00 155+00 156+00 157+00
ASPH BLDG 12" CI 6" CI 3/4" LEAD 12" HDPE
V1 V2 V3 V4
PI: 156+47.14

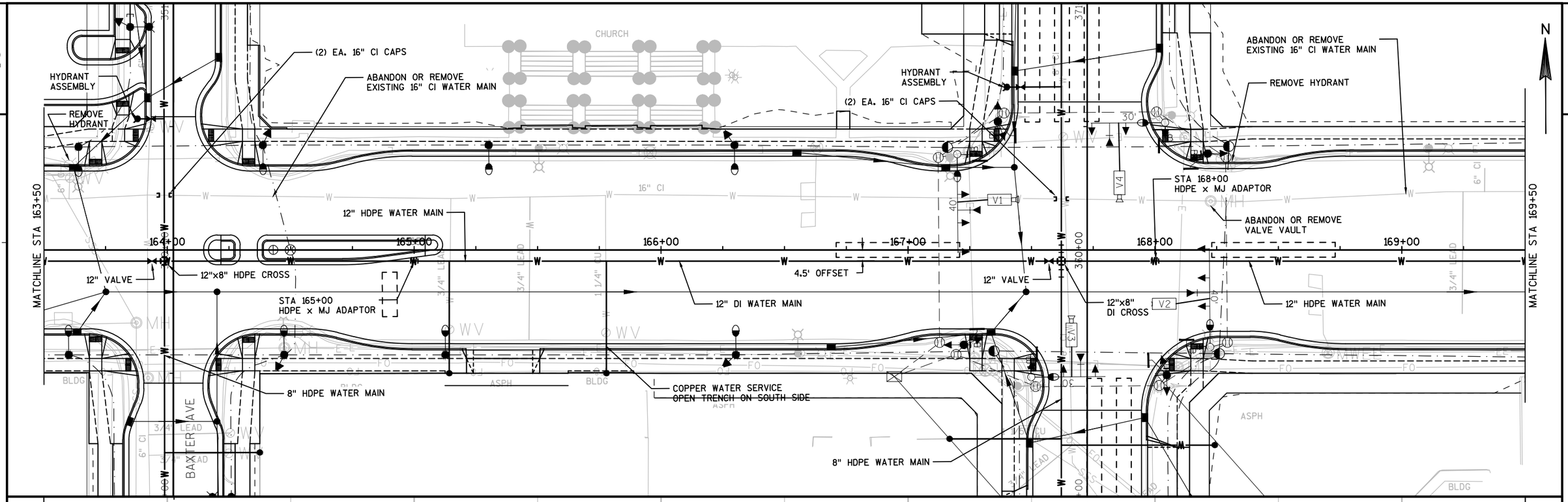
640
635
630
627
R HUGHITT AVE.
R HAMMOND AVE.
7.5'-9' BURY DEPTH
24" STORM STA=152+22.00 INV=632.33
12"x8" HDPE CROSS TOP=632.83
12" HDPE WATER MAIN (OPEN TRENCH)
POLYSTYRENE INSULATION, 4-INCH
HDPE x MJ ADAPTOR
TRENCH DAM. SEE DETAIL.
12" DI WATER MAIN (OPEN TRENCH)
12" STORM STA=155+92.00 INV=633.11
12"x12" DI CROSS TOP=631.10
15" STORM STA=156+82.98 INV=632.71
641.56 641.54 641.43 641.35 641.37 641.15 641.37 640.96 641.27 640.77 641.10 640.58 640.76 640.38 640.41 640.19 640.17 640.00 639.94 639.81 639.78 639.62 639.52 639.44 639.21 639.26
151+50 152+00 153+00 154+00 155+00 156+00 157+00 157+50

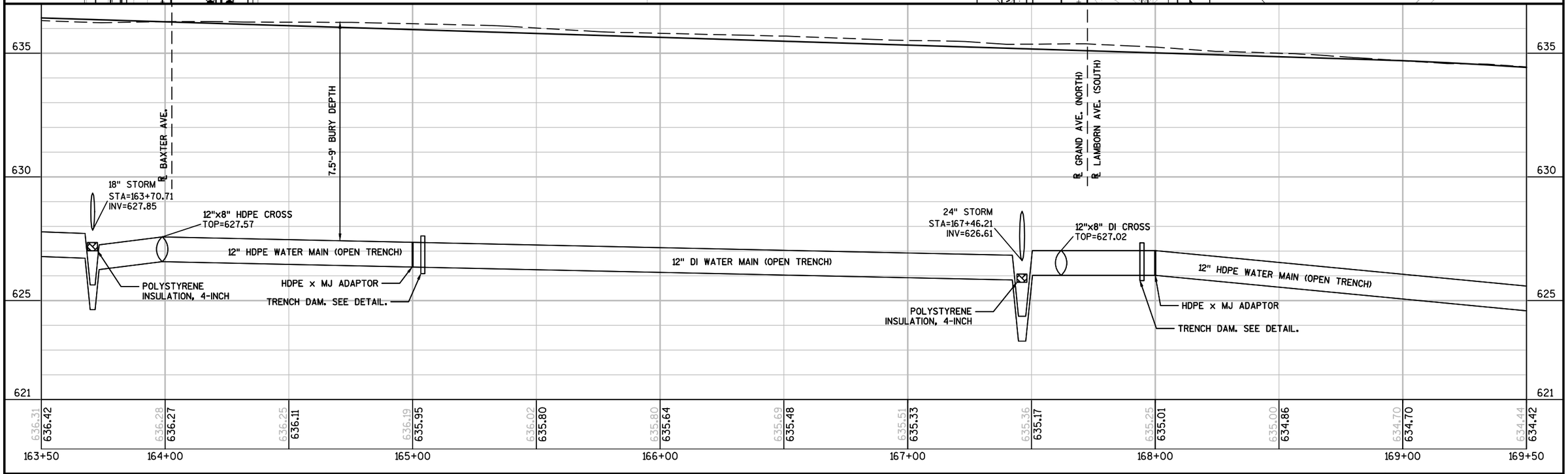
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 147	E



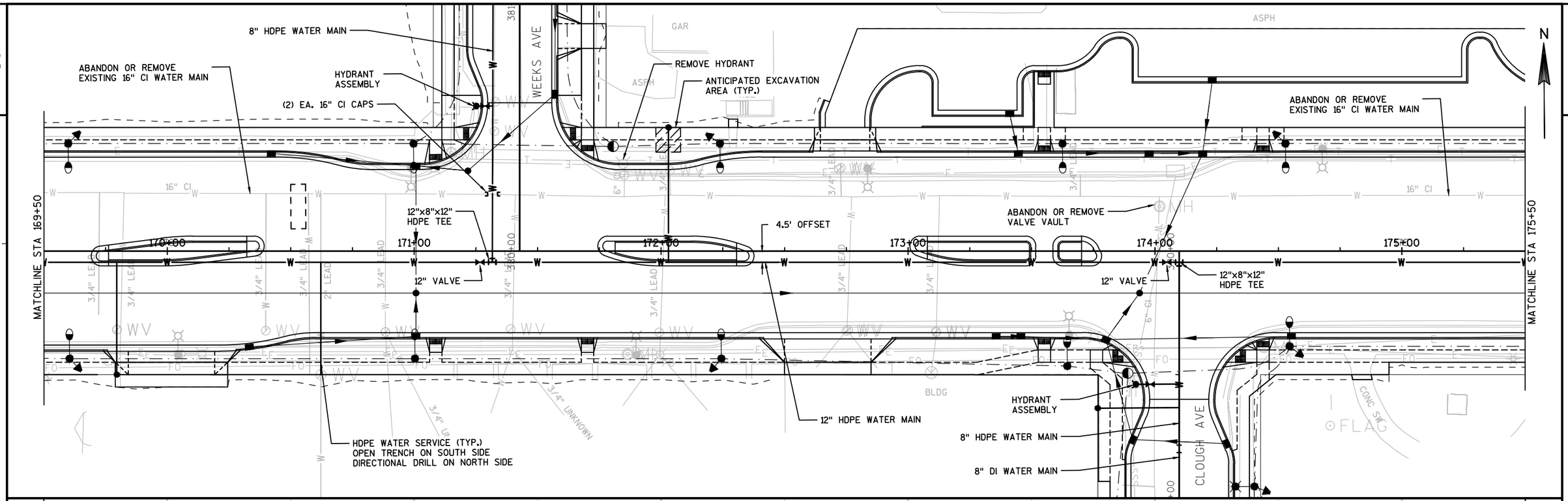
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET	E

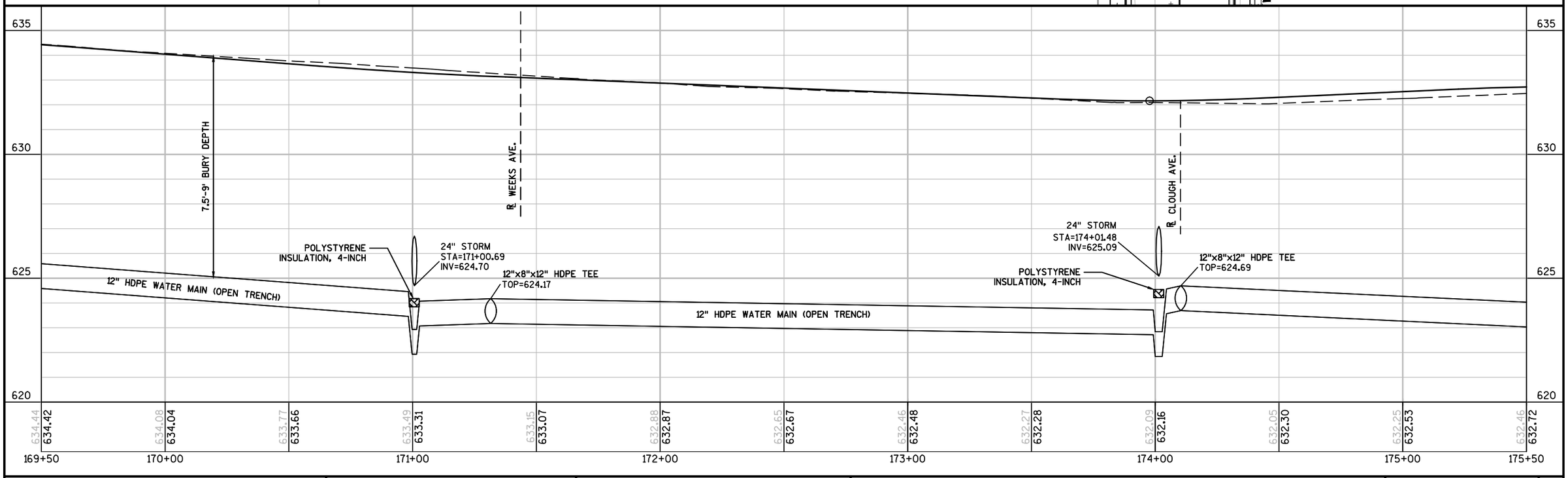
FILE NAME : S:\PT\S\SWLP0\133566\5-FINAL-DGN\51-DRAWINGS (FINAL)\10-CIVIL\CAD\DWG\PLNSHTS\SW133566_U01.DWG PLOT DATE : 10/20/2016 9:59 AM PLOT BY : ADAM ORLESKIE PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF WISDOT/CADDS SHEET 44



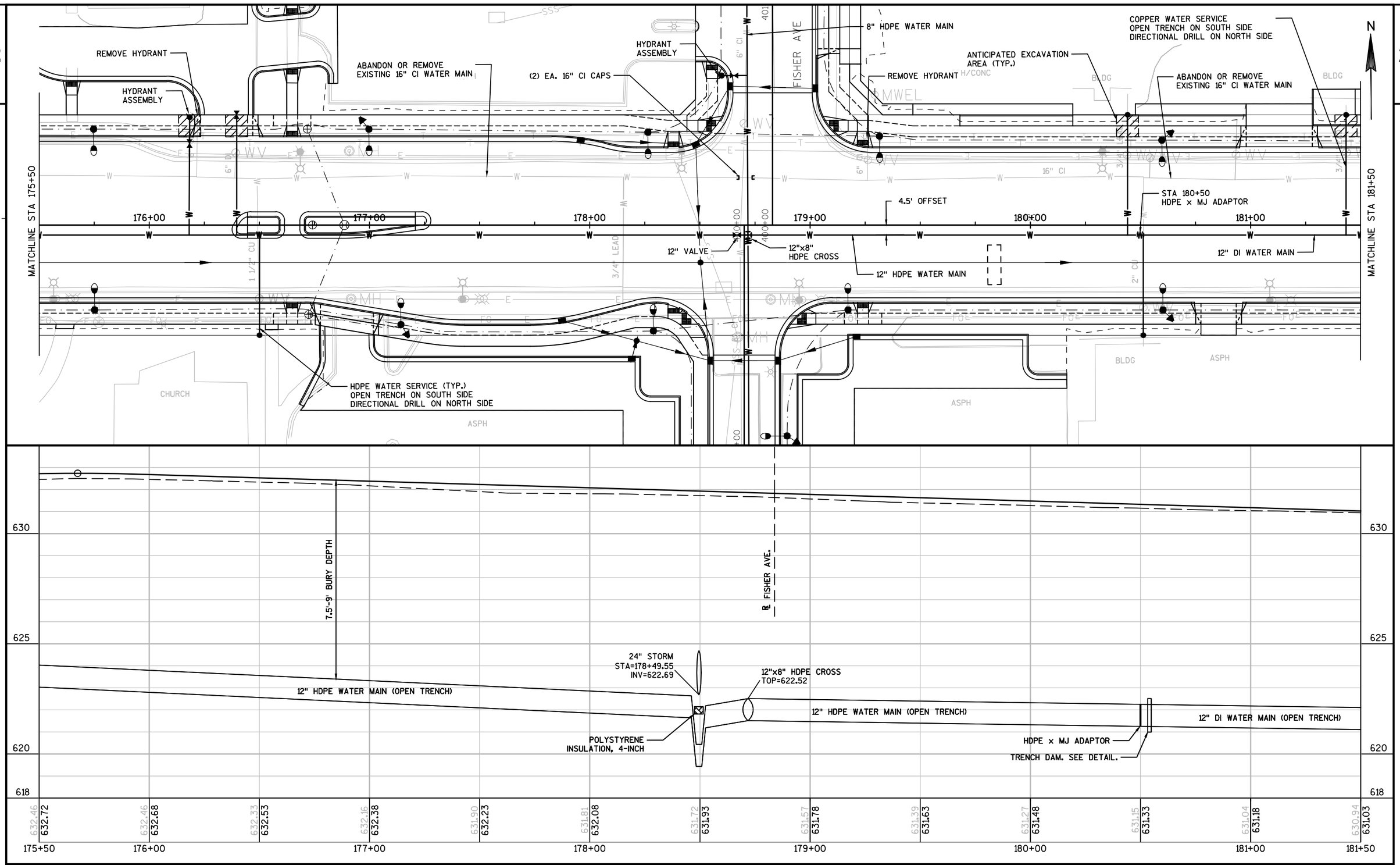


PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 149	E



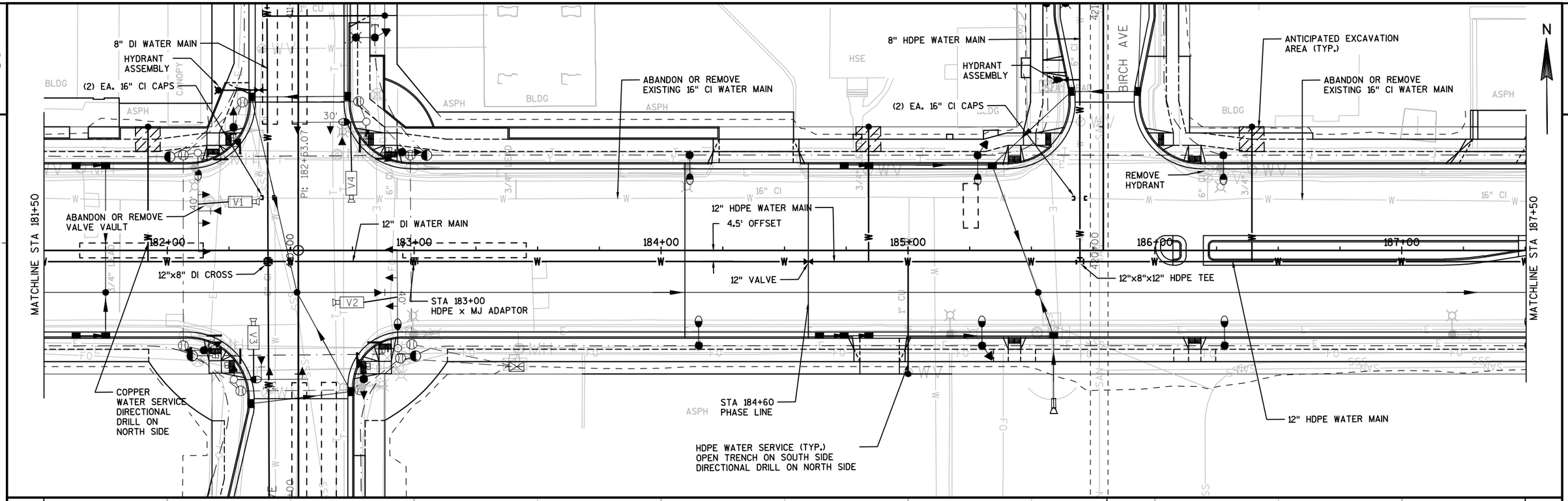


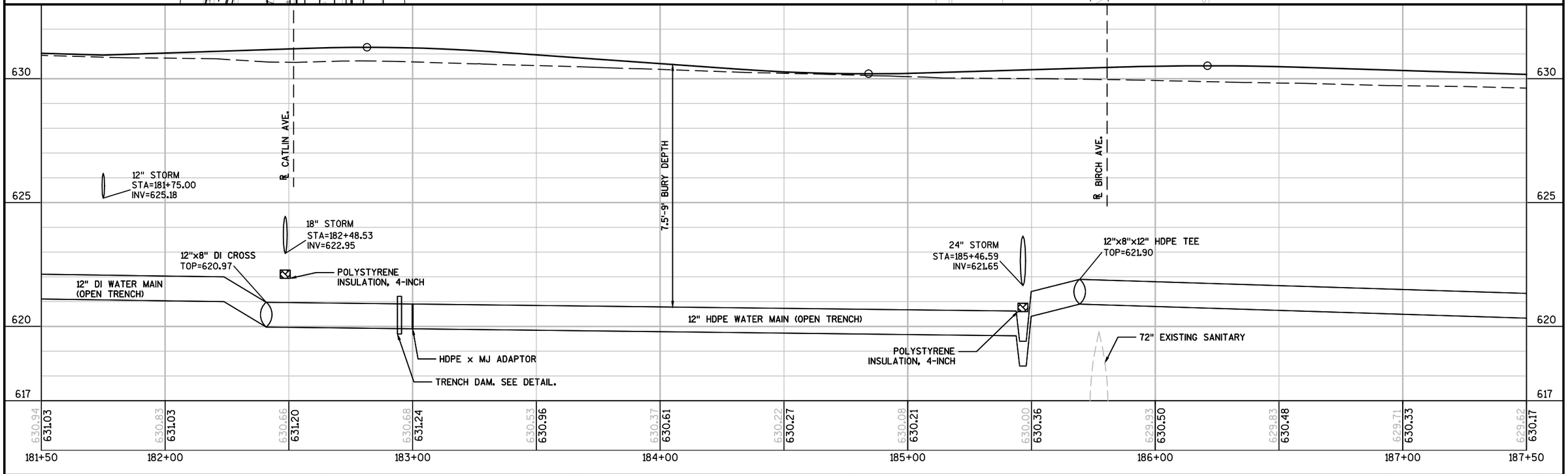
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 150	E



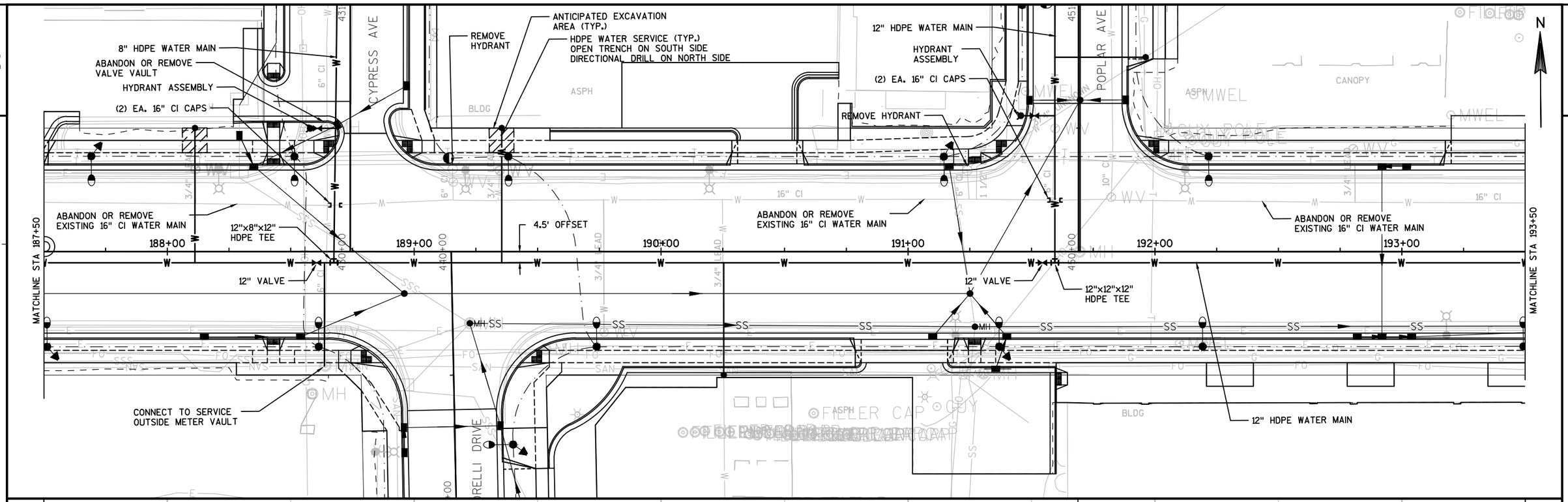
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET	E

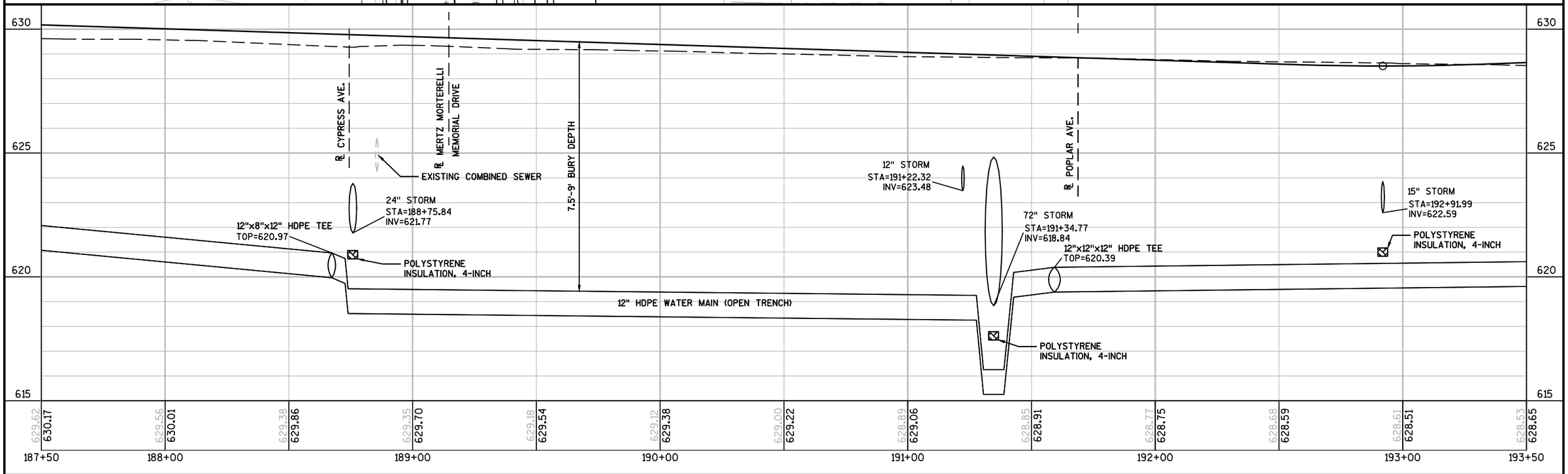
FILE NAME : S:\PT\S\SWLP0\133566\5-FINAL-DGN\51-DRAWINGS (FINAL)\10-CIVIL\CAD\DWG\PLNSHTS\SW133566_U01.DWG PLOT DATE : 10/20/2016 10:02 AM PLOT BY : ADAM ORLESKIE PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF WISDOT/CADDS SHEET 44



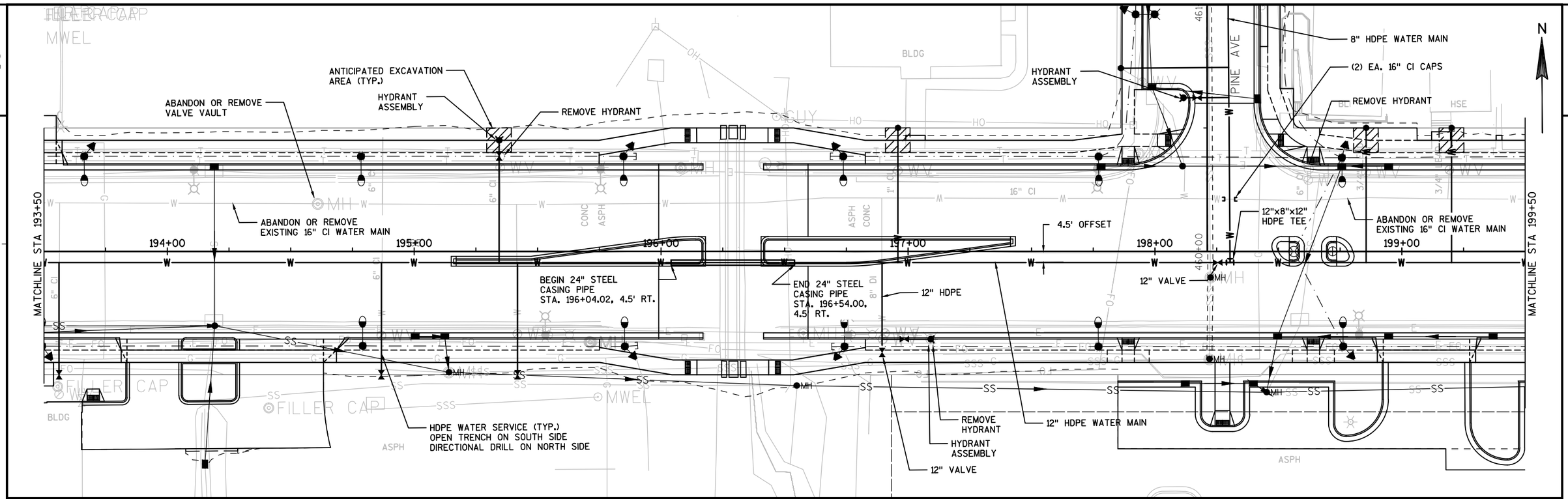


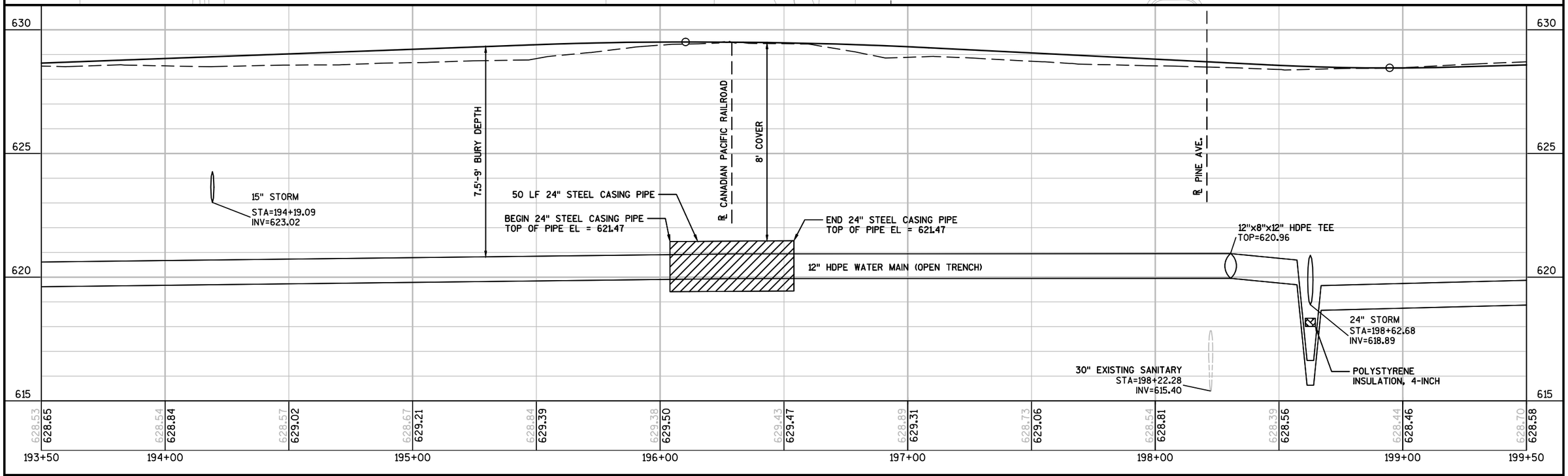
PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 152	E





PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 153	E





PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 154	E

2

ABANDON OR REMOVE VALVE VAULT

HYDRANT ASSEMBLY

8" HDPE WATER MAIN

(2) EA. 16" CI CAPS

REMOVE HYDRANT

ANTICIPATED EXCAVATION AREA (TYP.)

HDPE WATER SERVICE (TYP.) OPEN TRENCH ON SOUTH SIDE DIRECTIONAL DRILL ON NORTH SIDE

ABANDON OR REMOVE EXISTING 16" CI WATER MAIN

12" VALVE

12"x8" HDPE CROSS

4.5' OFFSET

12" HDPE WATER MAIN

12"x8"x12" HDPE TEE

MATCHLINE STA 199+50

MATCHLINE STA 205+50

N

200+00 201+00 202+00 203+00 204+00 205+00

469+00 470+00 480+00 490+00

510+00 511+00

ELM AVE

CEDAR AVE.

EP: 511+00.00

630 625 620 615

12" STORM
STA=201+95.41
INV=623.54

7.5'-9' BURY DEPTH

12" STORM
STA=203+60.00
INV=624.02

12"x8"x12" HDPE TEE
TOP=621.99

12"x8" HDPE CROSS
TOP=620.55

12" HDPE WATER MAIN (OPEN TRENCH)

POLYSTYRENE INSULATION, 4-INCH

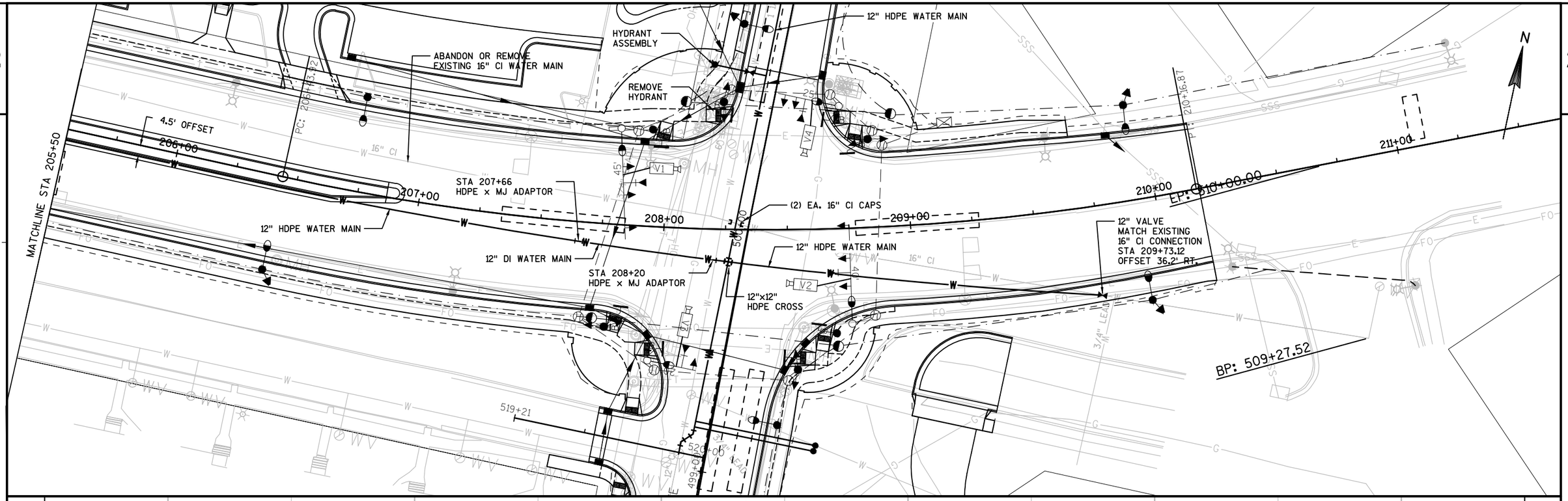
54" STORM

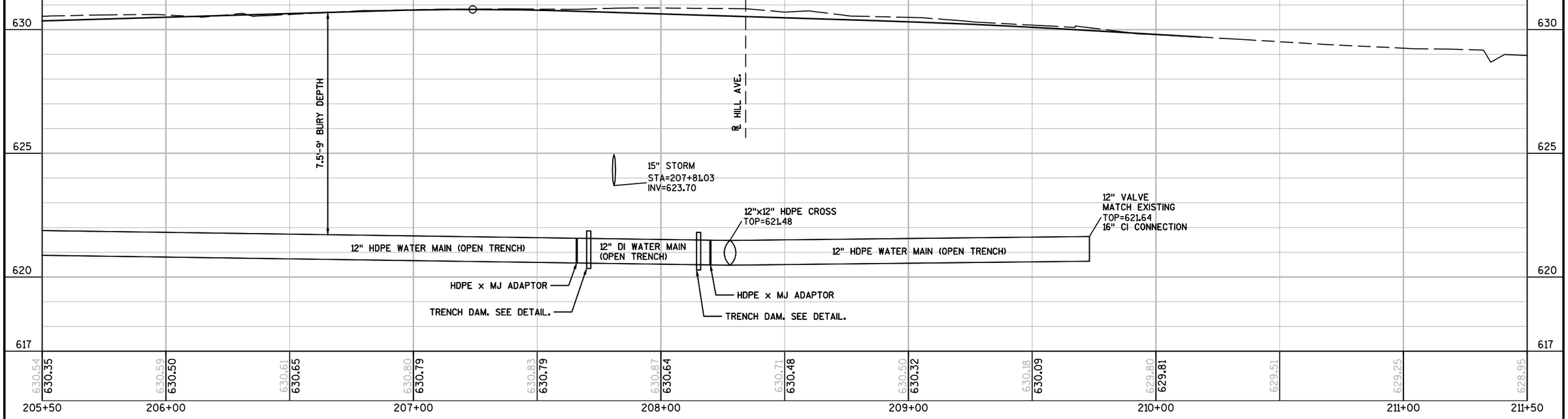
628.70	628.91	629.07	629.13	629.45	629.53	629.80	629.89	630.04	630.22	630.41	630.46	630.54
628.58	628.72	628.87	629.02	629.17	629.32	629.46	629.61	629.76	629.91	630.06	630.20	630.35

199+50 200+00 201+00 202+00 203+00 204+00 205+00 205+50

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 155	E

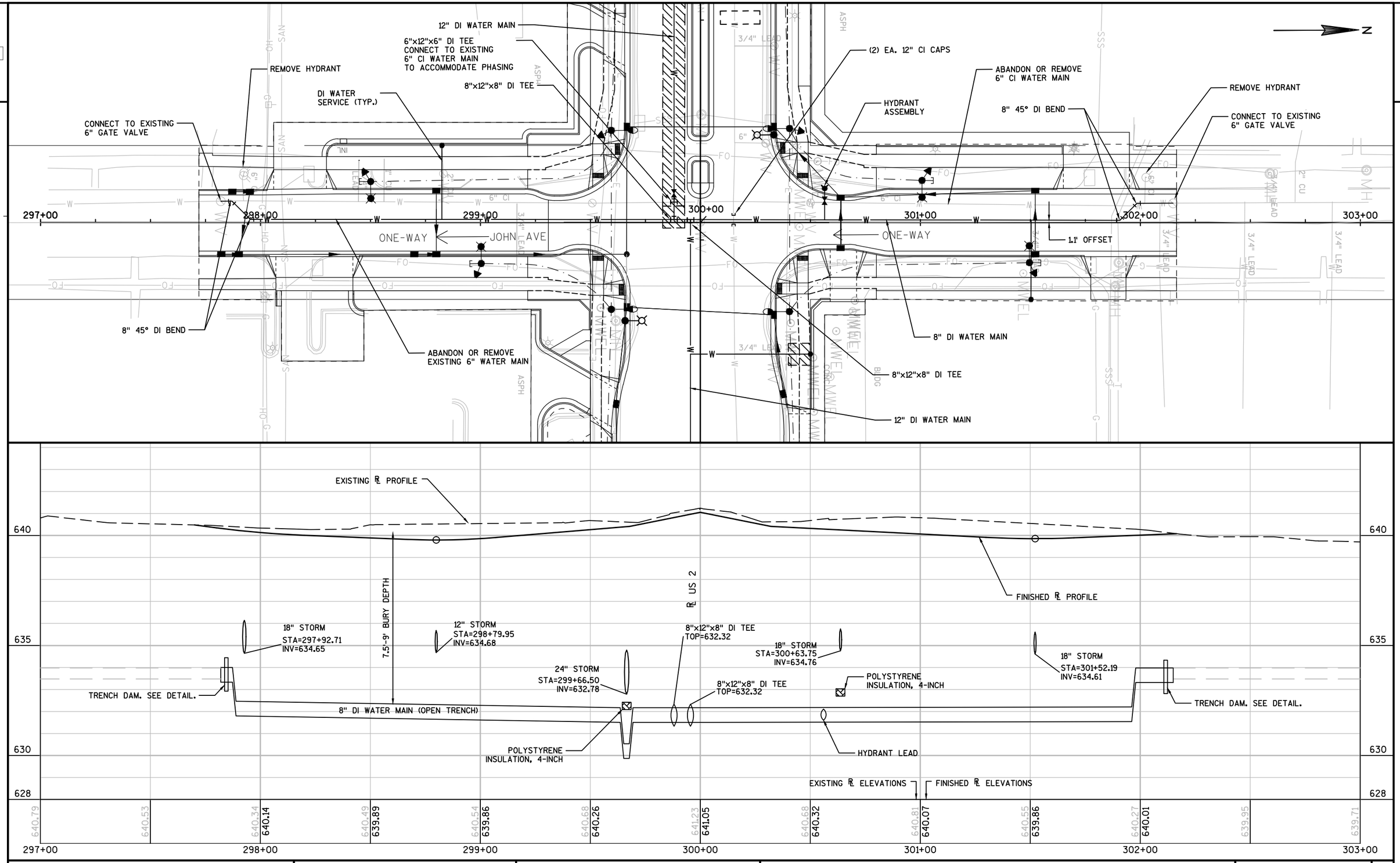
2





PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 156	E

FILE NAME : S:\PT\S\SWLP0\133566\5-FINAL-DGN\51-DRAWINGS (FINAL)\10-CIVIL\CAD\DWG\PLNSHTS\SW133566_U01.DWG PLOT DATE : 10/20/2016 10:07 AM PLOT BY : ADAM ORLESKIE PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF WISDOT/CADDS SHEET 44



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: JOHN AVENUE	SHEET 157	E

N

CONNECT TO EXISTING 6" GATE VALVE

REMOVE HYDRANT

ABANDON OR REMOVE 6" CI WATER MAIN

12"x8" HDPE CROSS

(2) EA. 12" CI CAPS

HYDRANT ASSEMBLY

ABANDON OR REMOVE 6" CI WATER MAIN

8" 45° HDPE BEND

REMOVE HYDRANT

CONNECT TO EXISTING 6" GATE VALVE

307+00 308+00 309+00 310+00 311+00 312+00 313+00

HUGHITT AVE

3.8' OFFSET

8" 45° DI BEND

COPPER WATER SERVICE (TYP.)

STA 309+75 HDPE x MJ ADAPTOR

8" DI WATER MAIN

8" HDPE WATER MAIN

12" HDPE WATER MAIN

640 635 630 627

7.5'-9' BURY DEPTH

℄ US 2

18" STORM
STA=308+06.66
INV=634.06

24" STORM
STA=309+33.90
INV=632.44

15" STORM
STA=311+81.88
INV=634.64

18" STORM
STA=310+56.06
INV=633.57

12"x8" HDPE CROSS
TOP=632.83

TRENCH DAM. SEE DETAIL.

8" DI WATER MAIN (OPEN TRENCH)

POLYSTYRENE INSULATION, 4-INCH

POLYSTYRENE INSULATION, 4-INCH

POLYSTYRENE INSULATION, 4-INCH

POLYSTYRENE INSULATION, 4-INCH

8" HDPE WATER MAIN (OPEN TRENCH)

HDPE x MJ ADAPTOR

TRENCH DAM. SEE DETAIL.

HYDRANT LEAD

42" STORM
STA=309+65.72
INV=630.29

640.10 639.99 639.83 639.72 639.78 640.00 640.57 640.34 640.44 640.44 641.35 641.11 640.77 640.29 640.78 640.58 640.41 639.90 639.95 639.69 639.98 639.80

307+00 308+00 309+00 310+00 311+00 312+00 313+00

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: HUGHITT AVENUE	SHEET 158	E

CONNECT TO EXISTING
12" GATE VALVE

ABANDON OR REMOVE
12" CI WATER MAIN

20.3' OFFSET

12"x12" DI CROSS

STA 329+90
HDPE x MJ ADAPTOR

ABANDON OR REMOVE
VALVE VAULT

HDPE WATER
SERVICE (TYP.)

HAMMOND AVE

327+00 328+00 329+00 330+00 331+00 332+00 333

PI: 156+47.14

STA 330+00
HDPE x MJ ADAPTOR

12" CI CAP

ABANDON OR REMOVE
VALVE VAULT

HYDRANT
ASSEMBLY

CONNECT TO EXISTING
12" GATE VALVE

12" HDPE WATER MAIN

16" CI CAP

12" HDPE WATER MAIN

N

640
635
630
625

7.5'-9' BURY DEPTH

℄ US 2

TRENCH DAM. SEE DETAIL.

HDPE x MJ ADAPTOR

15" STORM
STA=327+94.74
INV=632.67

POLYSTYRENE
INSULATION, 4-INCH

12" HDPE WATER MAIN (OPEN TRENCH)

48" STORM
STA=329+59.92
INV=628.88

POLYSTYRENE
INSULATION, 4-INCH

12"x12" DI CROSS
TOP=631.10

12" HDPE WATER MAIN
(OPEN TRENCH)

HDPE x MJ ADAPTOR

TRENCH DAM. SEE DETAIL.

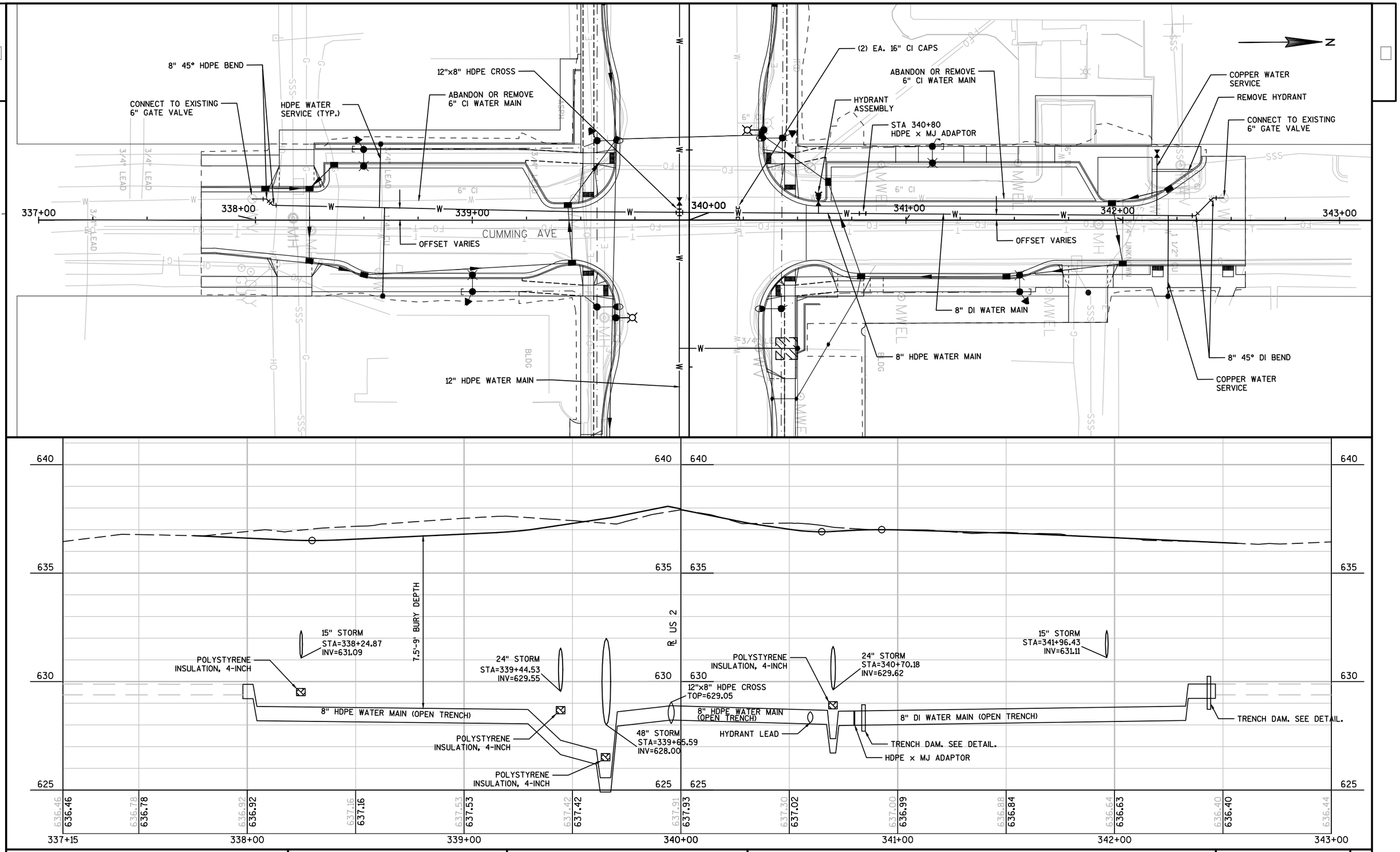
12" STORM
STA=330+81.03
INV=633.88

HYDRANT LEAD

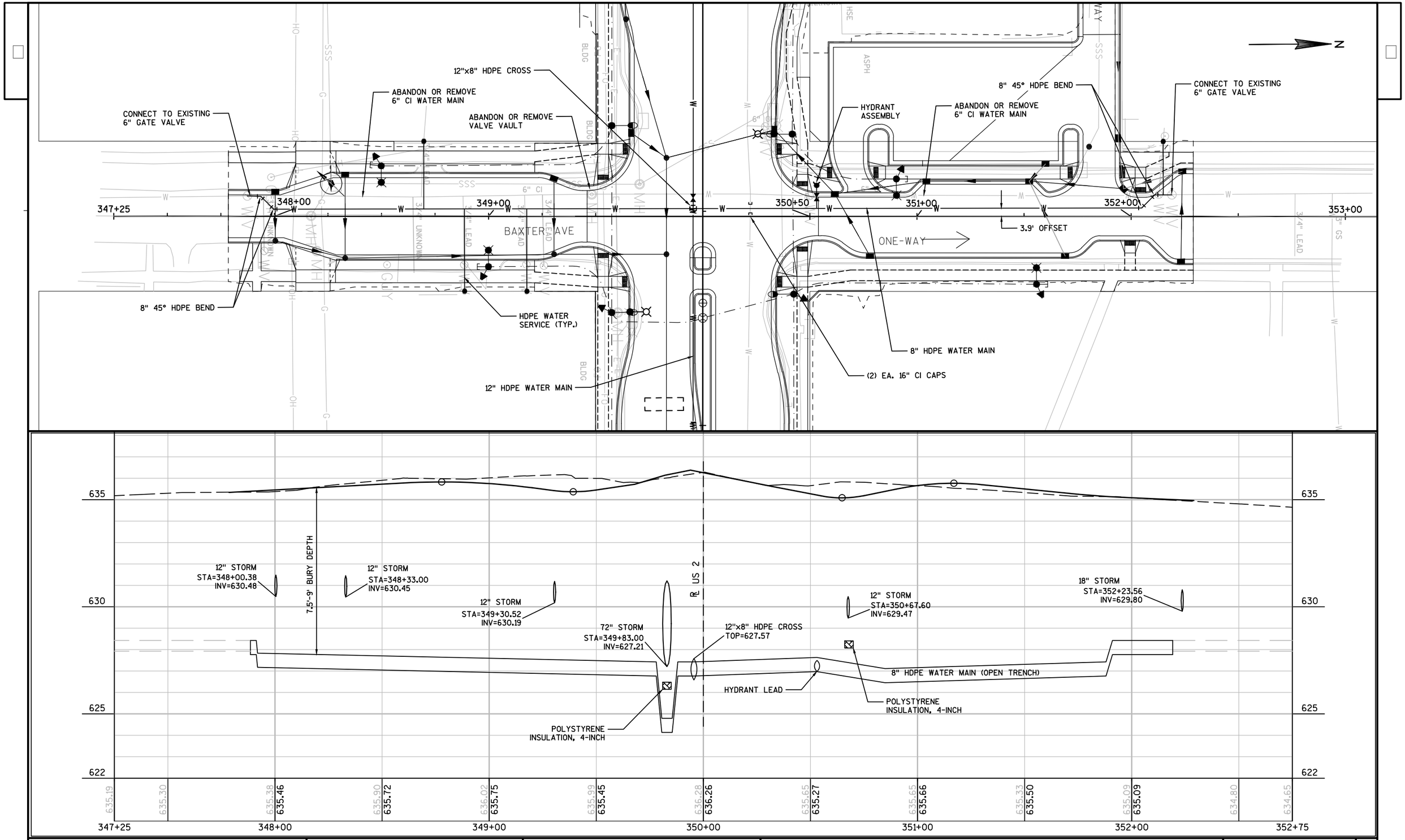
639.43 638.68 638.48 638.50 638.86 638.88 639.27 639.31 639.27 639.14 639.79 639.63 639.08 638.96 639.21 639.21 639.05 638.84 638.48 638.30

327+00 328+00 329+00 330+00 331+00 332+00 333+00

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: HAMMOND AVENUE	SHEET 159	E



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CUMMING AVENUE	SHEET 160	E



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: BAXTER AVENUE	SHEET 161	E

FILE NAME : S:\PT\S\SWLP0\133566\5-FINAL-DGN\51-DRAWINGS (FINAL)\10-CIVIL\CAD\DWG\PLNSHTS\SW133566_U02.DWG PLOT DATE : 10/21/2016 10:32 AM PLOT BY : ADAM ORLESKIE PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF WISDOT/CADDS SHEET 44

STA 359+90
HDPE x MJ ADAPTOR

ABANDON OR REMOVE
6" CI WATER MAIN

8" 90° HDPE BEND

12"x8" DI CROSS

STA 370+00
HDPE x MJ ADAPTOR

HYDRANT
ASSEMBLY

ABANDON OR REMOVE
6" CI WATER MAIN

CONNECT TO EXISTING
6" GATE VALVE

W LAMBORN AVE

GRAND AVE

10.5' OFFSET

8" HDPE WATER MAIN

(2) EA. 16" CI CAPS

12" HDPE WATER MAIN

357+00 358+00 359+00 370+50 371+00 372+00 373+00

100+00

101+00

V2 V3 V4

40' 30'

N

635
630
625
622

12" STORM
STA=358+34.38
INV=629.96

7.5'-9' BURY DEPTH

18" STORM
STA=359+26.90
INV=628.75

℄ US 2
℄ GRAND AVE SOUTH

12" STORM
STA=370+77.13
INV=628.52

7.5'-9' BURY DEPTH

12" STORM
STA=371+99.93
INV=628.57

POLYSTYRENE
INSULATION, 4-INCH

℄ GRAND AVE SOUTH

8" 90° HDPE BEND
TOP=626.75

12"x8" DI CROSS
TOP=627.02

POLYSTYRENE
INSULATION, 4-INCH

8" HDPE WATER MAIN (OPEN TRENCH)

8" HDPE WATER MAIN (OPEN TRENCH)

POLYSTYRENE
INSULATION, 4-INCH

HYDRANT LEAD
HDPE x MJ ADAPTOR

72" STORM
STA=359+83.00
INV=624.54

TRENCH DAM. SEE DETAIL.

HDPE x MJ ADAPTOR

POLYSTYRENE
INSULATION, 4-INCH

635.81 635.21 635.19 634.99 634.86 634.96 634.54 634.84 634.46 635.37 635.10 635.18 634.22 634.71 634.40 634.27 634.38 633.99 634.00 633.63 633.26

+00 358+00 359+00 360+00 LAMBORN AVE (SOUTH)
370+00 GRAND AVE (NORTH) 371+00 372+00 373

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: LAMBORN AVE (SOUTH) & GRAND AVE (NORTH)	SHEET 162	E

ABANDON OR REMOVE
EXISTING 8" CI WATER MAIN

CONNECT TO EXISTING
8" GATE VALVE

HYDRANT ASSEMBLY

REMOVE HYDRANT

8" 45° HDPE BEND

8" 90° HDPE BEND

101+00

102+00

102+25

370+50

359+00

358+00

100+00

LAMBORN AVE

ASPH

BLDG

3/4" UNKNOWN

8" CI

N

635

630

625

622

℄ LAMBORN AVE

12" STORM
STA=100+59.41
INV=629.70

7.5'-9' BURY DEPTH

8" 90° HDPE BEND
TOP=626.75

8" HDPE WATER MAIN (OPEN TRENCH)

HYDRANT LEAD

634.89

633.98

634.11

634.30

99+50

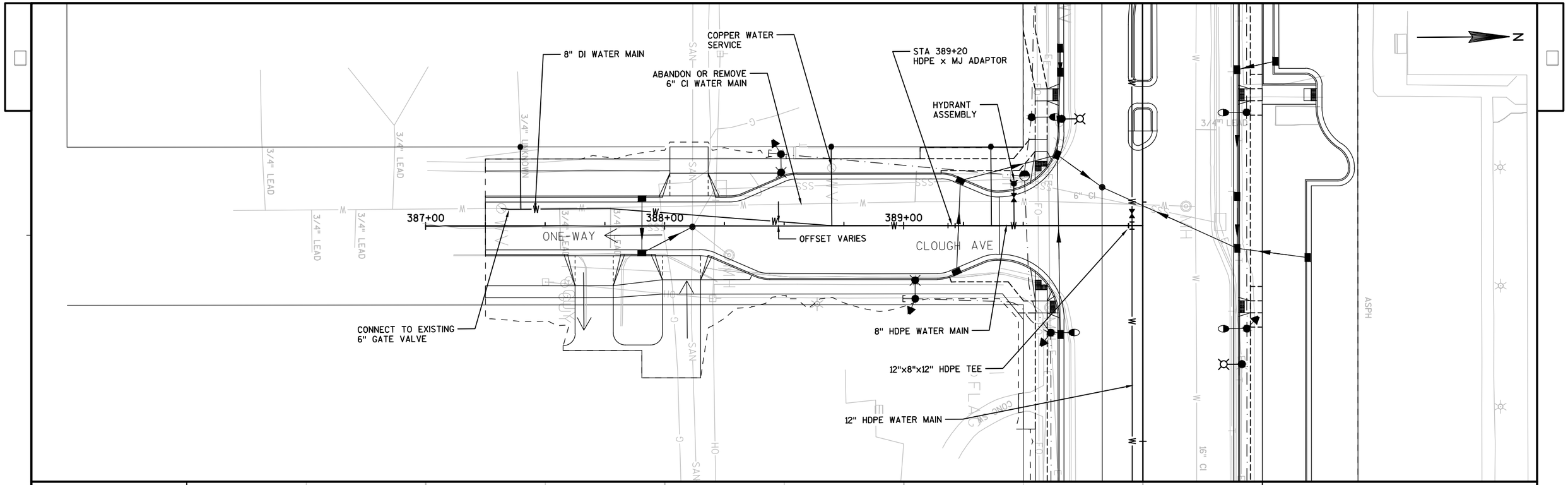
100+00

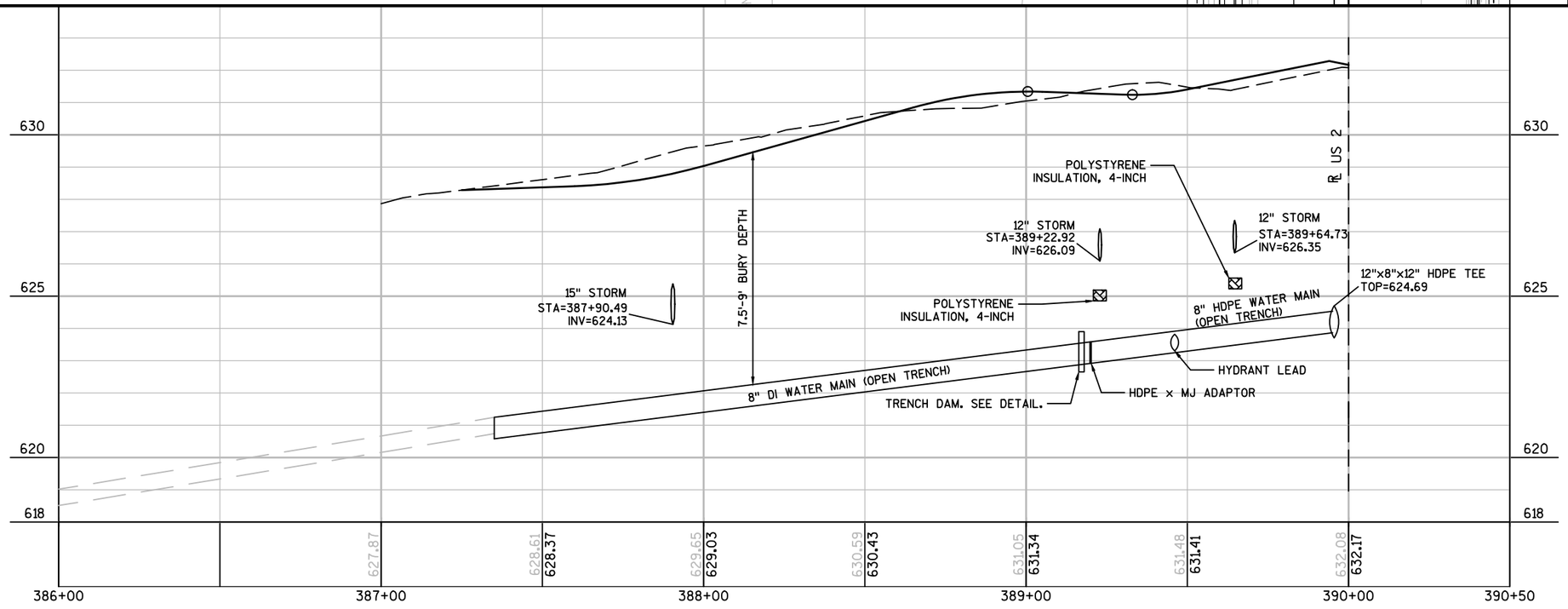
101+00

102+00

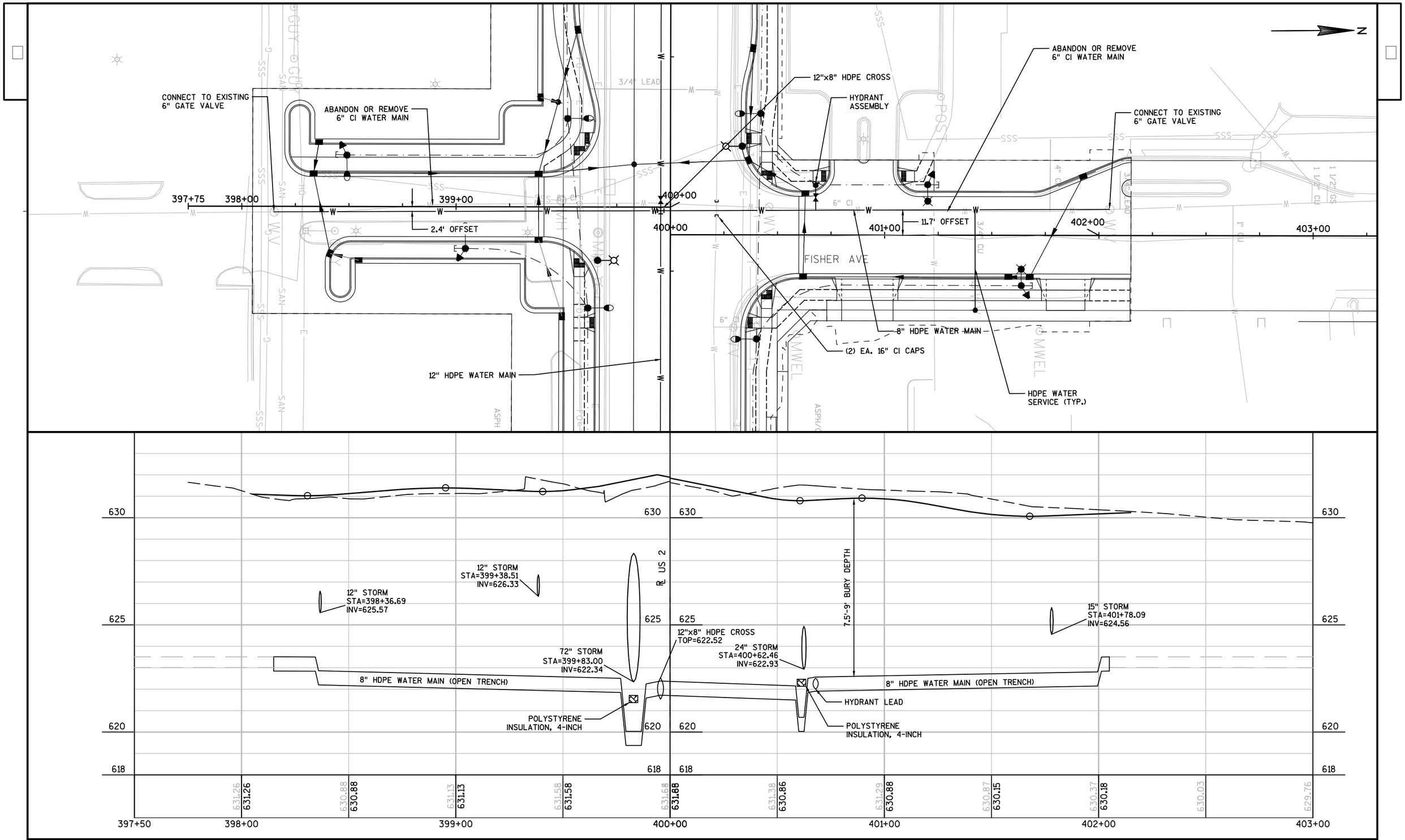
103+00

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: GRAND AVENUE SOUTH	SHEET 163	E





PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CLOUGH AVENUE	SHEET 164	E



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: FISHER AVENUE	SHEET 165	E

COPPER WATER SERVICE
ABANDON OR REMOVE 6" CI WATER MAIN
CONNECT TO EXISTING 6" GATE VALVE
12" DI WATER MAIN
8" DI WATER MAIN
12"x8" DI CROSS
(2) EA. 16" CI CAPS
HYDRANT ASSEMBLY
STA 411+00 HDPE x MJ ADAPTOR
8" HDPE WATER MAIN
ABANDON OR REMOVE 6" CI WATER MAIN
REMOVE HYDRANT
HDPE WATER SERVICE (TYP.)
CONNECT TO EXISTING 6" GATE VALVE
CATLIN AVE
407+50
408+00
409+00
410+00
411+00
412+00
413+00
PI: 182+53.07
12.7' OFFSET
8" DI WATER MAIN
12" HDPE WATER MAIN
N

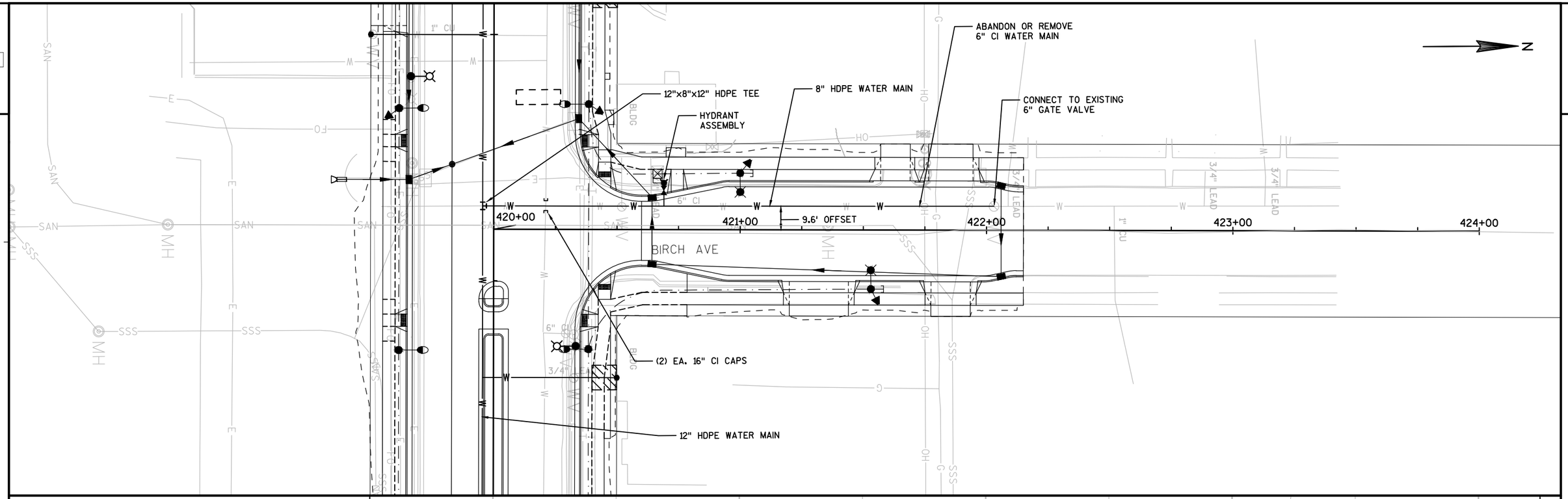
630
625
620
618
7.5'-9' BURY DEPTH
℄ US 2
15" STORM STA=408+49.94 INV=625.38
12" STORM STA=409+40.33 INV=625.19
72" STORM STA=409+83.00 INV=621.57
15" STORM STA=410+40.28 INV=624.54
18" STORM STA=410+62.18 INV=623.25
15" STORM STA=412+25.00 INV=624.24
8" DI WATER MAIN (OPEN TRENCH)
TRENCH DAM. SEE DETAIL.
POLYSTYRENE INSULATION, 4-INCH
12"x8" DI CROSS TOP=620.97
8" DI WATER MAIN (OPEN TRENCH)
POLYSTYRENE INSULATION, 4-INCH
8" HDPE WATER MAIN (OPEN TRENCH)
HDPE x MJ ADAPTOR
TRENCH DAM. SEE DETAIL.
HYDRANT LEAD

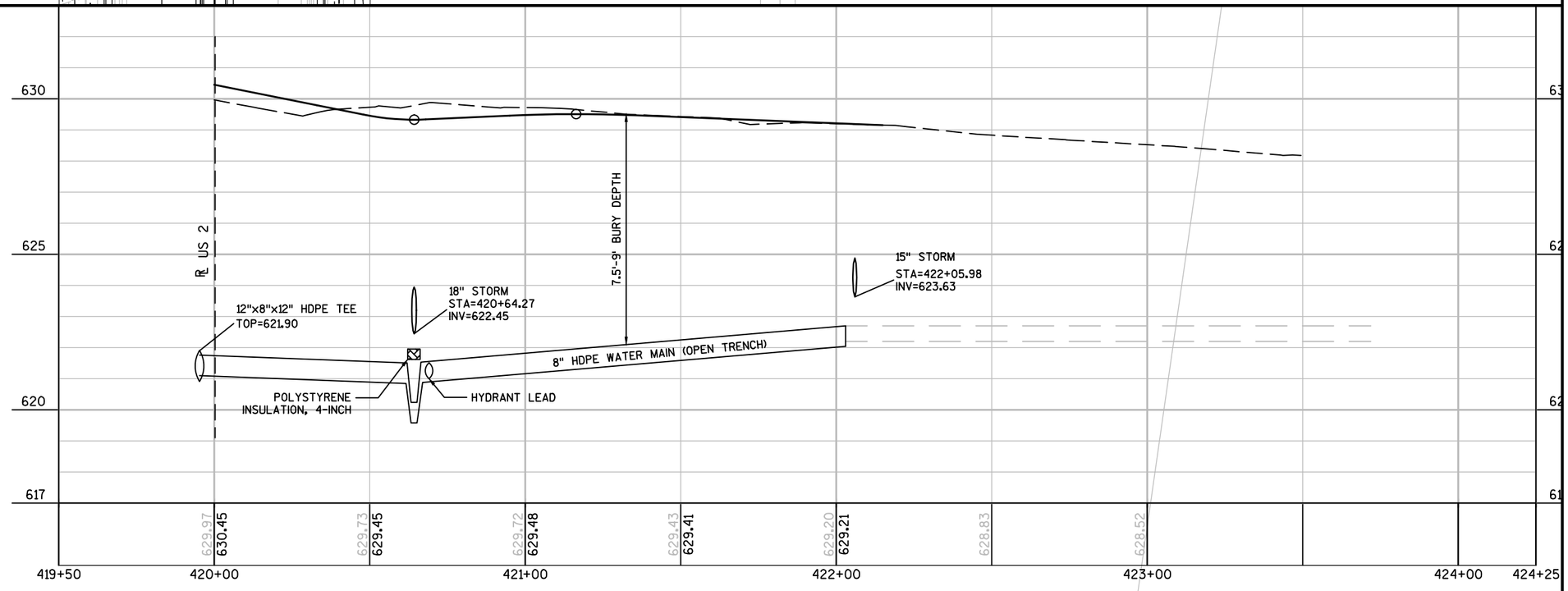
631.41 630.55 630.57 630.17 630.15 630.29 630.33 630.41 630.62 630.66 631.21 630.48 630.38 630.56 630.63 630.21 630.09 629.76 629.66 629.49 629.49 629.09

407+50 408+00 409+00 410+00 411+00 412+00 413+00

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CATLIN AVENUE	SHEET	E

FILE NAME : S:\PT\S\SWLP0\133566\5-FINAL-DGN\51-DRAWINGS (FINAL)\10-CIVIL\CAD\DWG\PLNSHTS\SW133566_U02.DWG PLOT DATE : 10/21/2016 10:38 AM PLOT BY : ADAM ORLESKIE PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF WISDOT/CADDS SHEET 44





PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: BIRCH AVENUE	SHEET 167	E

N

8" 45° HDPE BEND

HDPE WATER SERVICE (TYP.)

CONNECT TO EXISTING 6" GATE VALVE

HYDRANT ASSEMBLY

ABANDON OR REMOVE 6" CI WATER MAIN

ABANDON OR REMOVE VALVE VAULT

OFFSET VARIES

CYPRESS AVE

(2) EA. 16" CI CAPS

12"x8"x12" HDPE TEE

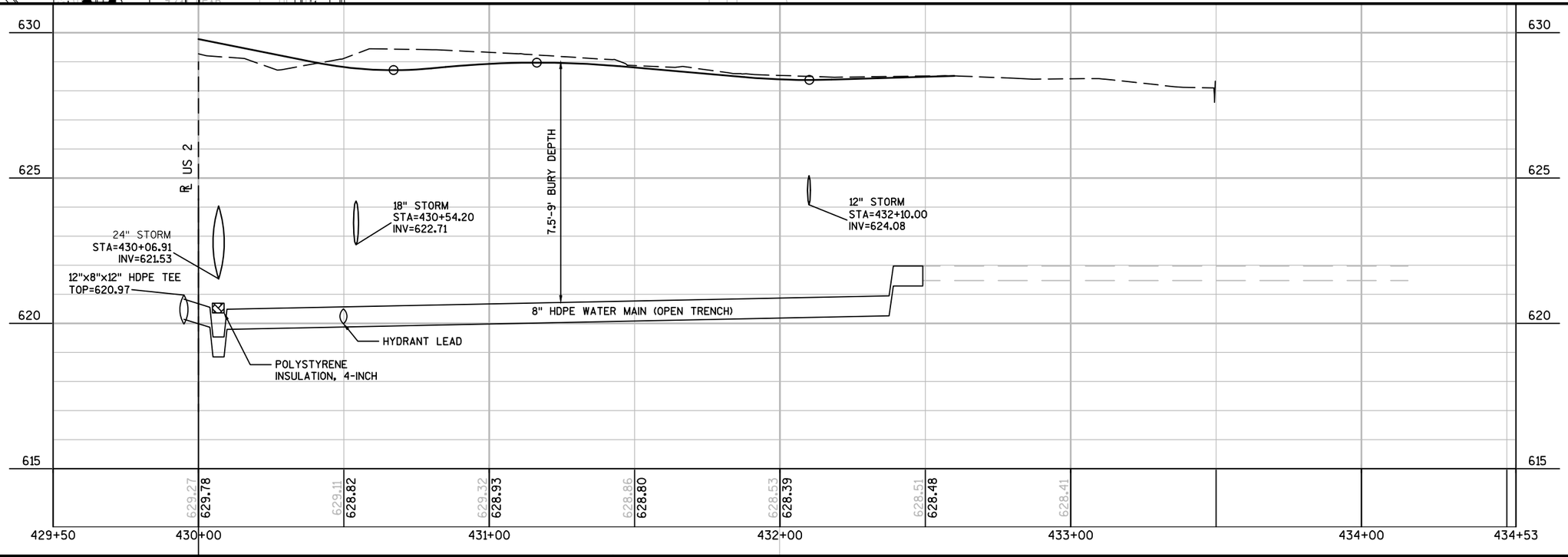
8" HDPE WATER MAIN

12" HDPE WATER MAIN

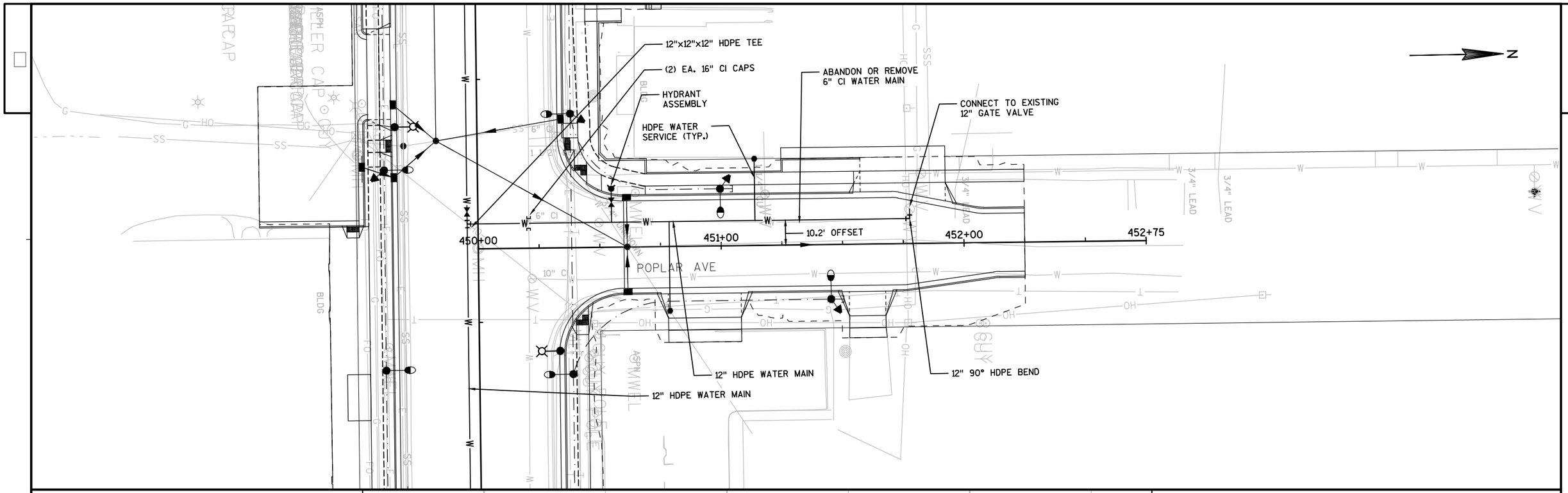
430+00 431+00 432+00 433+00 434+00 434+53

440+00

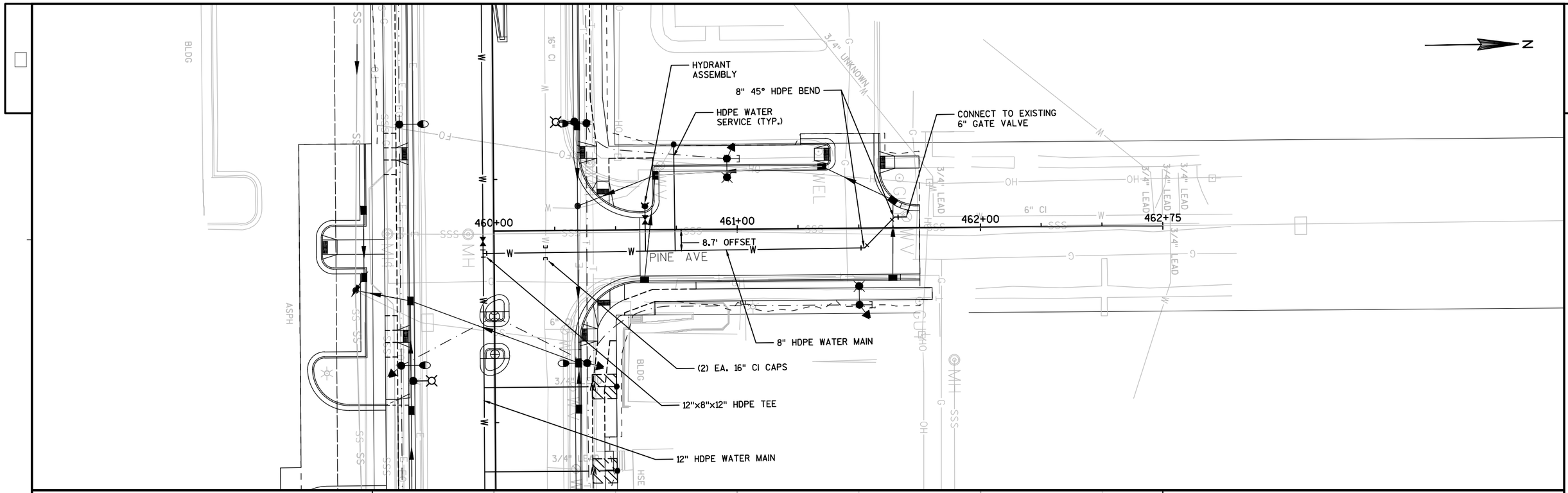
LI DRIVE



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CYPRESS AVENUE	SHEET 168	E



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: POPLAR AVENUE	SHEET 169	E



PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: PINE AVENUE	SHEET 170	E

ABANDON OR REMOVE 6" CI WATER MAIN
8" 45° HDPE BEND
CONNECT TO EXISTING 6" GATE VALVE
12"x8" HDPE CROSS
(2) EA. 16" CI CAPS
HYDRANT ASSEMBLY
HDPE WATER SERVICE (TYP.)
ABANDON OR REMOVE 6" CI WATER MAIN
CONNECT TO EXISTING 6" GATE VALVE
N
466+85467+00
468+00
469+00
470+50
471+00
472+00
472+50
OFFSET VARIES
OFFSET VARIES
ELM AVE
A HAYES CT
FLAG BLDG
8" 45° HDPE BEND
8" HDPE WATER MAIN
12" HDPE WATER MAIN
ONE-WAY

630
625
620
616

15" STORM
STA=467+77.82
INV=623.99

30" STORM
STA=469+61.42
INV=619.91

8" HDPE WATER MAIN (OPEN TRENCH)

POLYSTYRENE INSULATION, 4-INCH

RL US 2

12"x8" HDPE CROSS
TOP=620.55

7.5'-9' BURY DEPTH

HYDRANT LEAD

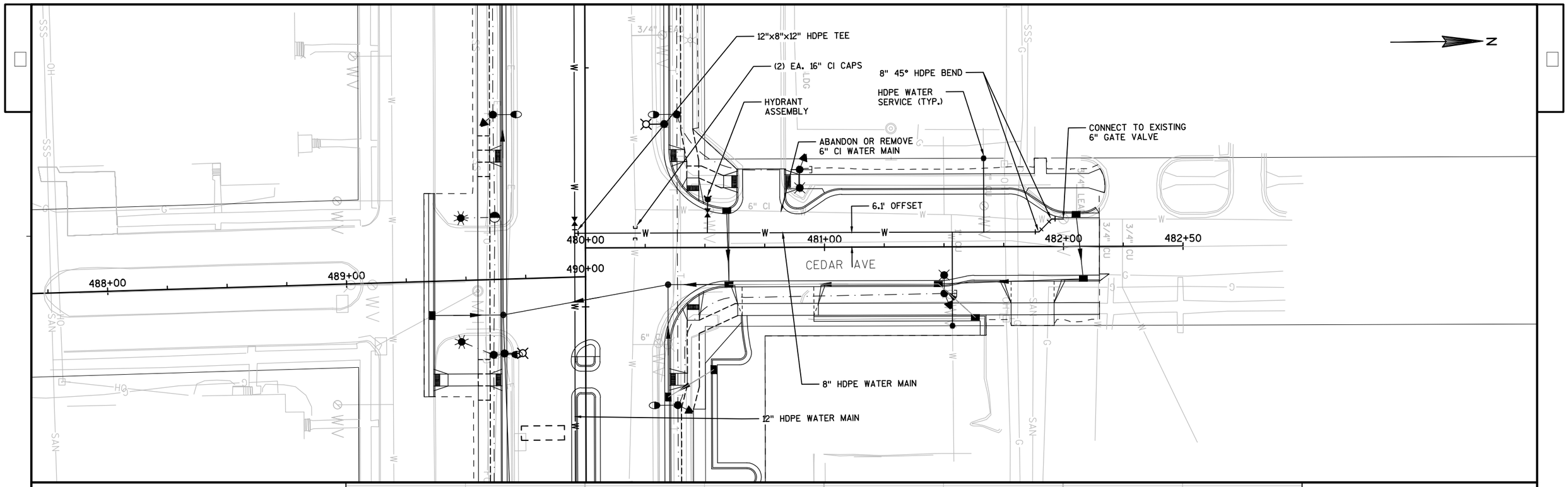
15" STORM
STA=472+06.85
INV=621.40

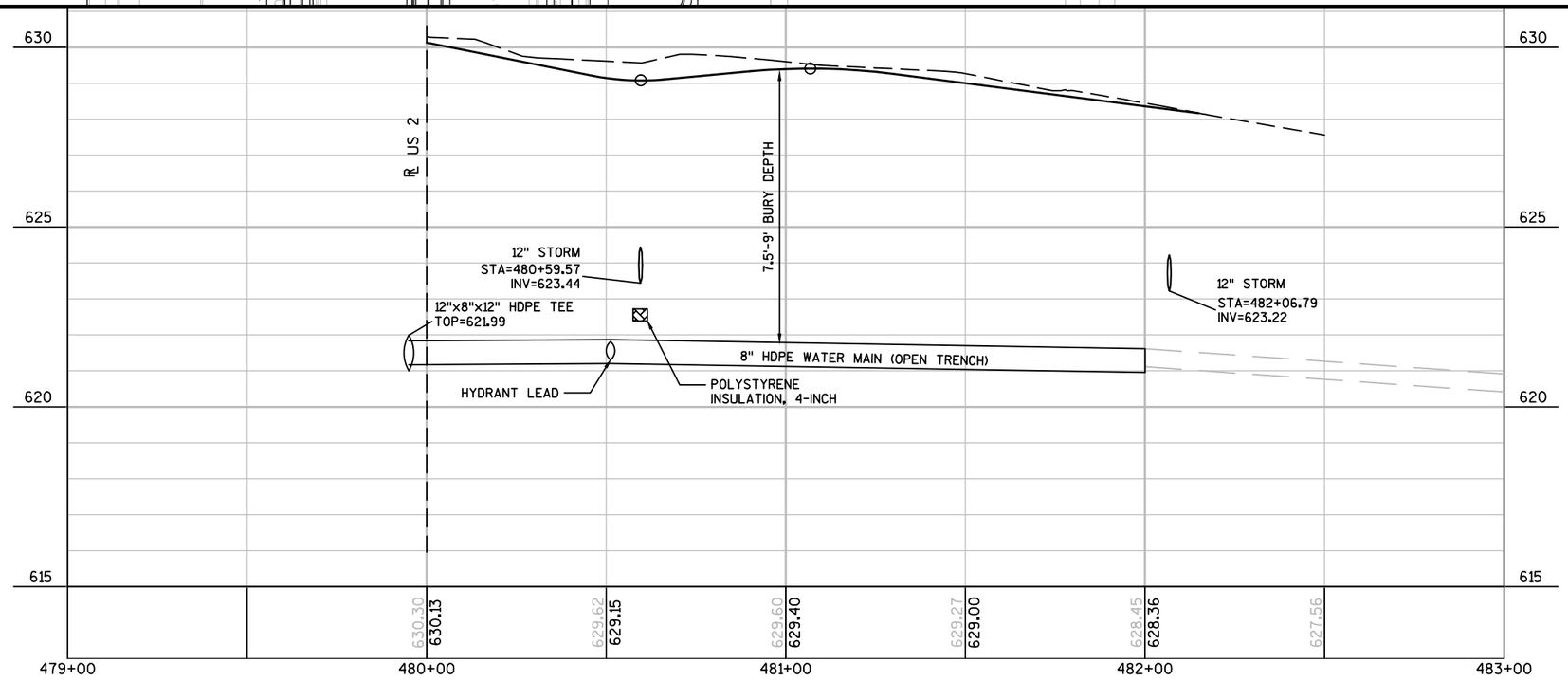
POLYSTYRENE INSULATION, 4-INCH

631.60 631.44 630.87 630.57 630.49 629.97 630.00 629.46 629.59 628.95 629.05 628.62 629.48 629.16 628.69 628.16 628.15 627.24 627.45 627.00 626.91 626.83

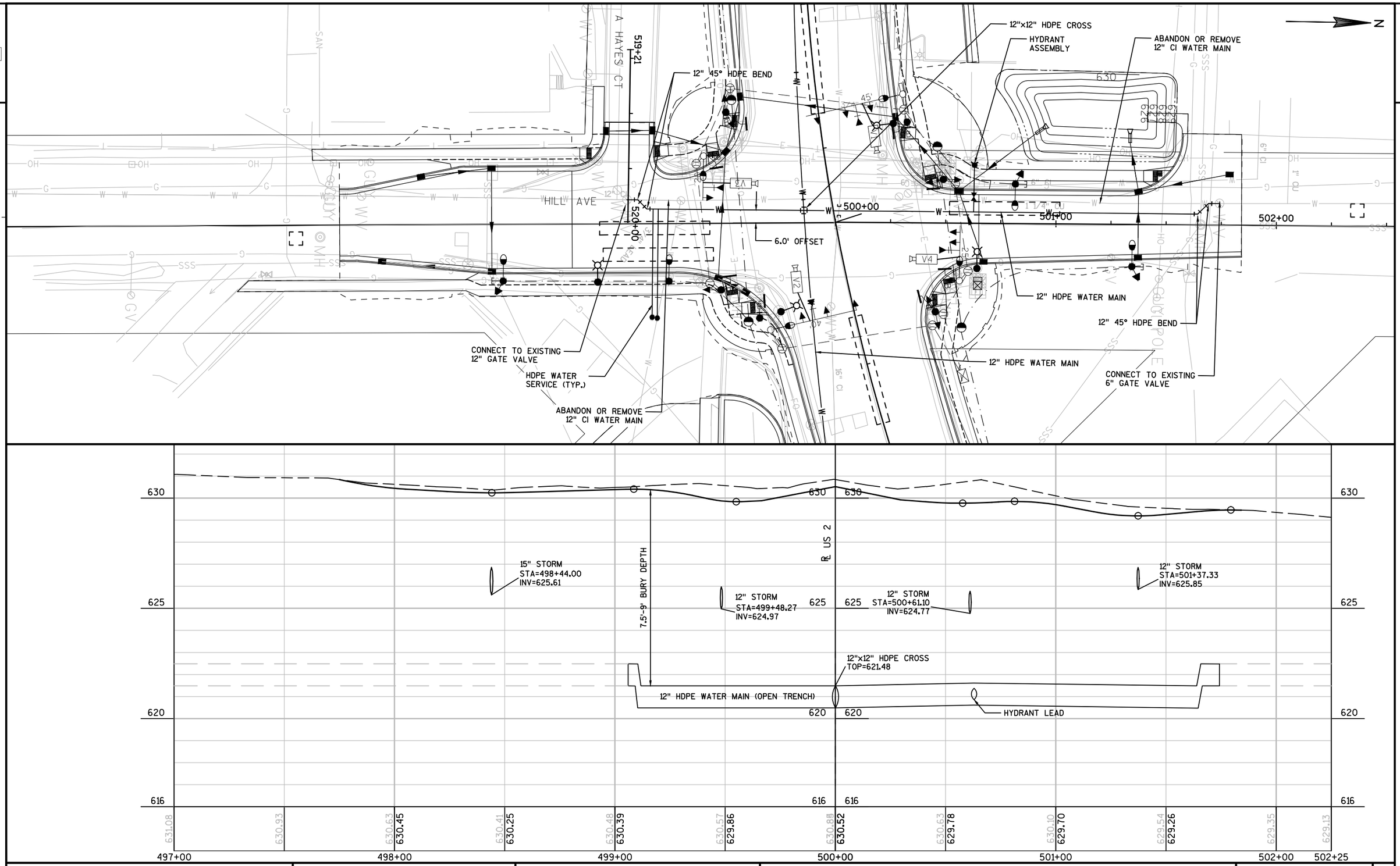
466+85467+00 468+00 469+00 470+00 471+00 472+00 472+50

PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: ELM AVENUE	SHEET 171	E





PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CEDAR AVENUE (NORTH)	SHEET 172	E

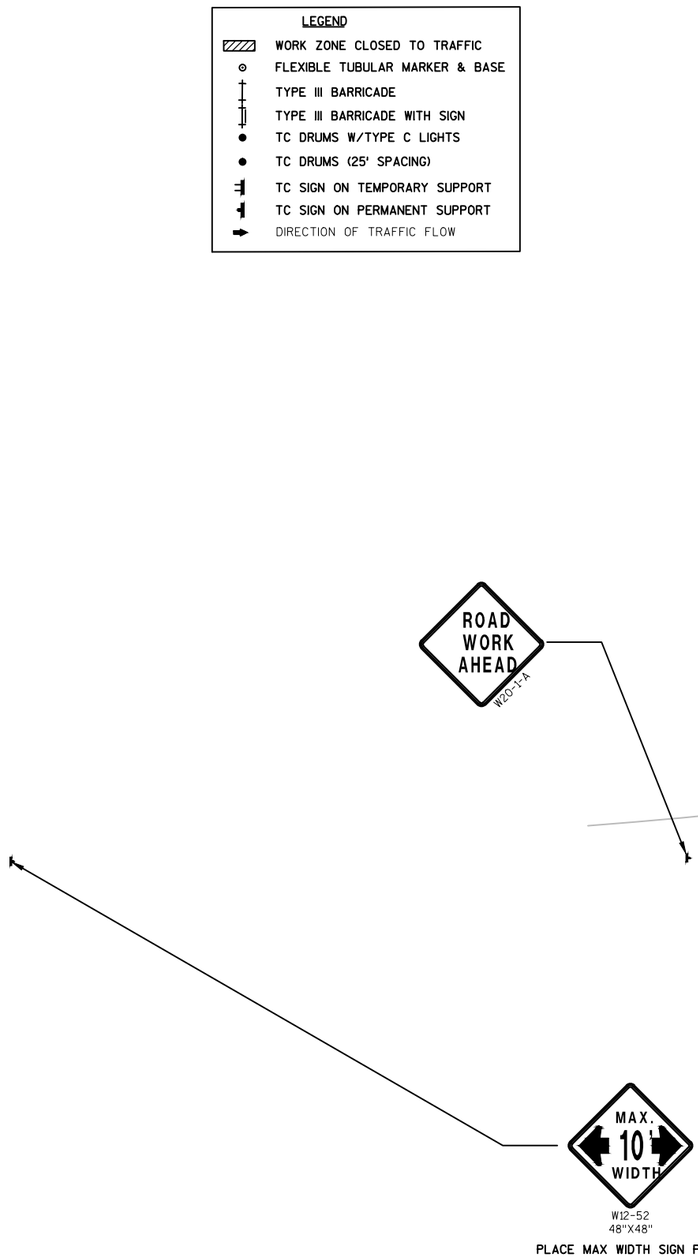


PROJECT NO: 8680-00-72	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: HILL AVENUE	SHEET 173	E

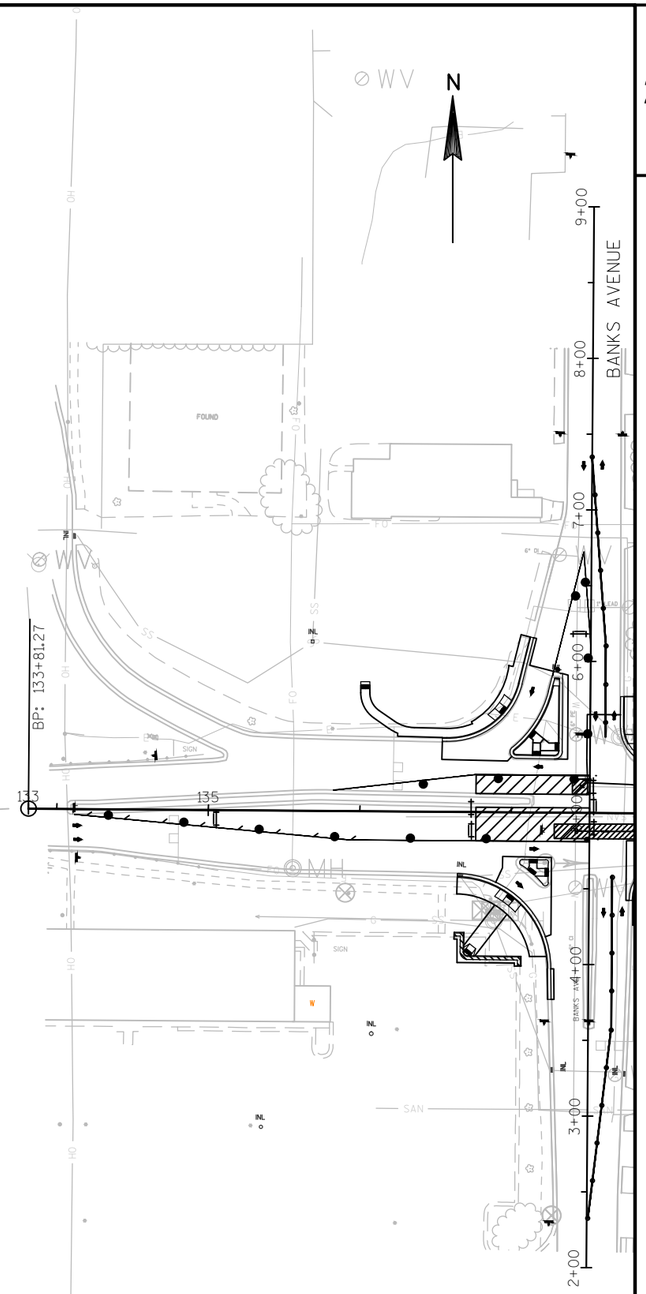
2

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW



PLACE MAX WIDTH SIGN PRIOR TO GARFIELD AVENUE



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1A - WATER MAIN INSTALLATION	SHEET 174	E

2

R3-8
36"X30"

END ROAD WORK
G20-2A
48"X24"

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4–INCH YELLOW

STOP
R1-1
30"X30"

W01-6
48"X24"

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4–INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS AND BASES

R3-2
24"X24"

TEMPORARY PAVEMENT MARKING PAINT 4–INCH YELLOW

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4–INCH WHITE

W1-6
48"X24"

BP: 133+81.27

BELKNAP STREET

TOWER AVENUE

7+00

6+00

680+00

689+00

688+00

135

140

R3-8-D
36"X30"

W1-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4–INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4–INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS AND BASES

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2-L
48"X30"

R3-2
24"X24"

TO TRAFFIC FROM LEFT
R1-54
24"X15"

YIELD
R1-2
36"X31"

W04-1R

BANKS AVENUE

3+00

2+00

687+00

686+00

TOWER AVE

END ROAD WORK
G20-2A
48"X24"

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

PROJECT NO:8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1A - WATER MAIN INSTALLATION	SHEET 175 E

2

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

W04-2L

MAX. 10' WIDTH
W12-52
48"X48"

LEFT LANE CLOSED AHEAD
W20-5-A

ROAD WORK AHEAD
W20-1-A

TOWER AVENUE

OGDEN AVENUE

BELKNAP STREET

JOHN-AVE ONE-WAY

HUGHITT AVE

689+00 690+00 691+00 692+00 693+00 694+00

101+00 100+00 99+00

301+00 300+00 299+00

145 150 155

N

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1A - WATER MAIN INSTALLATION	SHEET 176 E

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

BANKS AVENUE

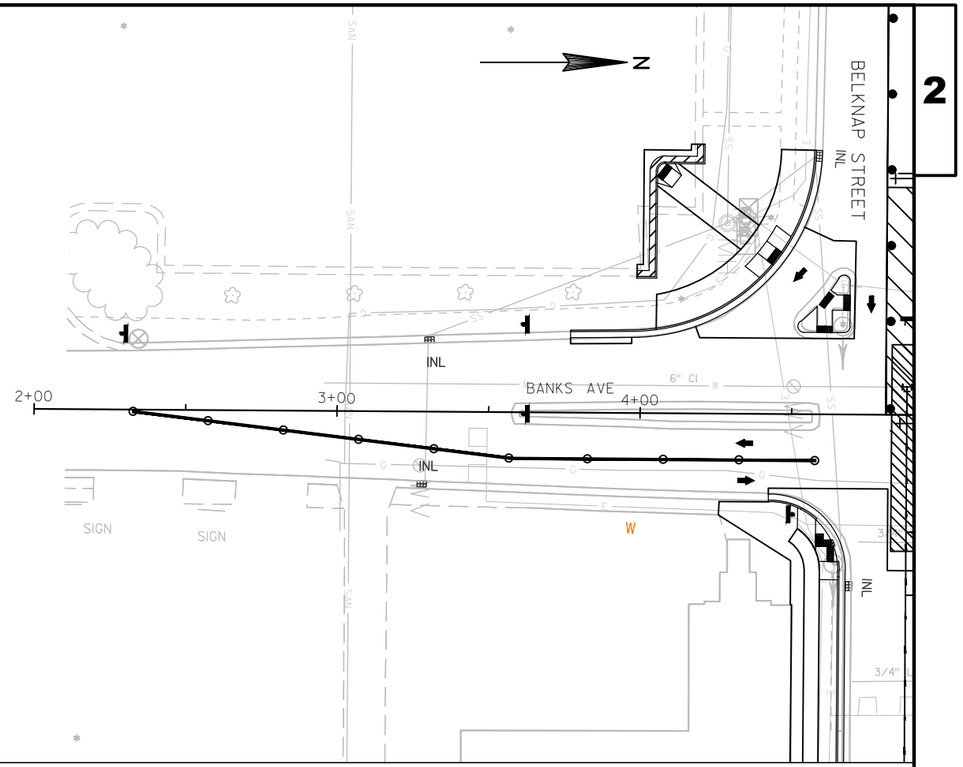
200'-250' 200'-250'

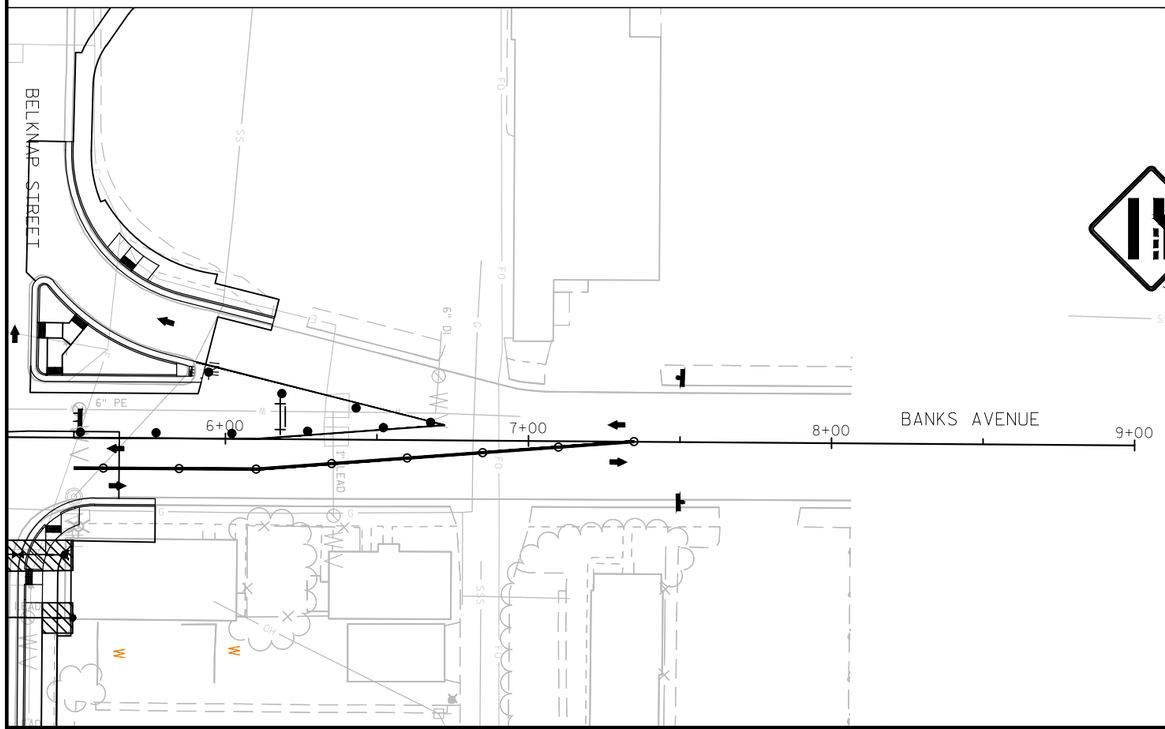
ROAD WORK AHEAD W20-1-A

MAX. 10' WIDTH W12-52 48"X48"

LEFT LANE CLOSED AHEAD W20-5-A

W04-2L





W04-2R

MAX. 10' WIDTH W12-52 48"X48"

RIGHT LANE CLOSED AHEAD W20-5-A

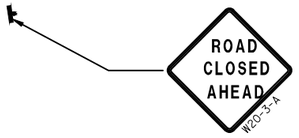
ROAD WORK AHEAD W20-1-A

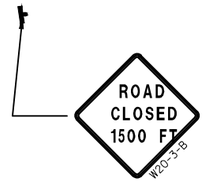
NOTE: TRAFFIC TO UTILIZE THE ALTERNATE ROUTE/TRUCK DETOUR DURING THIS STAGE.
SEE ALTERNATE ROUTE/.TRUCK DETOUR ROUTE PLAN SHEET FOR DETOUR ROUTE SIGNING INFORMATION.

2

N

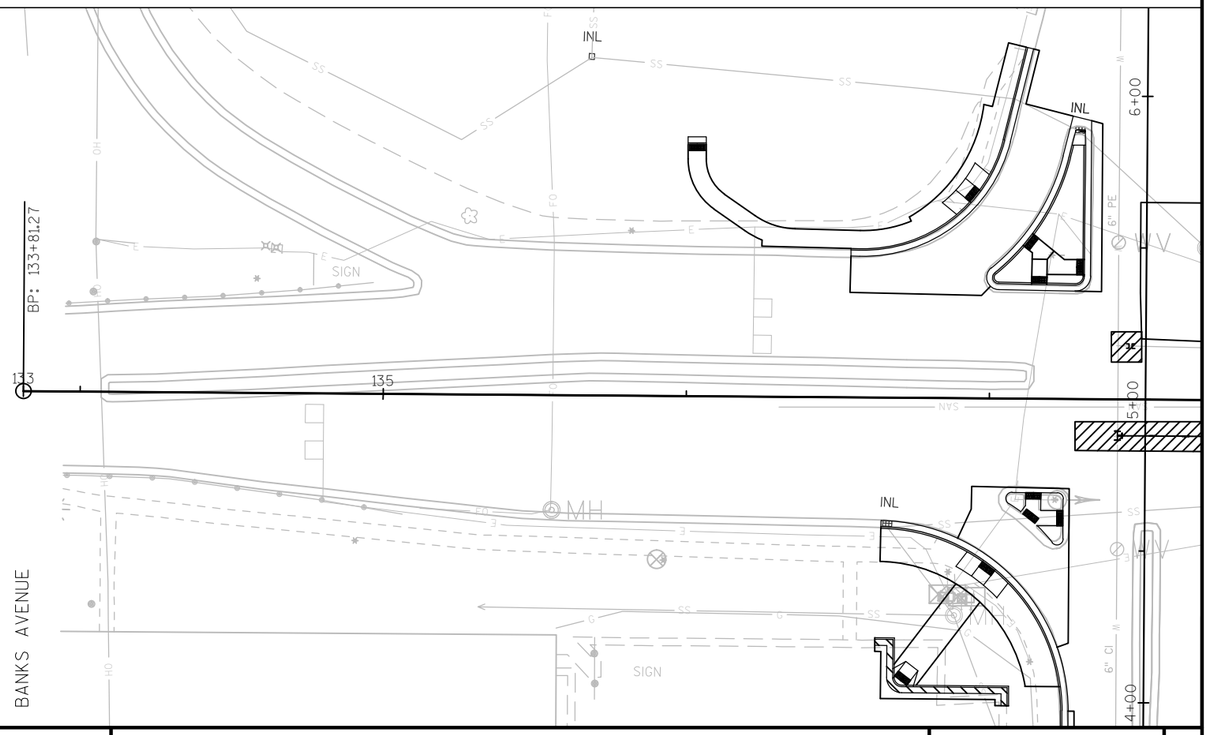
BELKNAP STREET



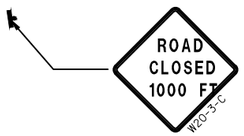


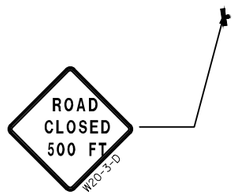
LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW



BELKNAP STREET





PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1B - WATER MAIN INSTALLATION	SHEET 178 E

2

BANKS AVENUE

TOWER AVENUE

OGDEN AVENUE

BELKNAP STREET

BANKS AVE

TOWER AVE

7+00
6+00
5+00
4+00
3+00
690+00
689+00
688+00
687+00
102+00
101+00
100+00
99+00
98+00

140
145

N

W1-6
48"X24"

R3-1
24"X24"

LANE CLOSED
R11-2-L
48"X30"

NO PARKING BETWEEN SIGNS
R7-52-R
18"X24"

NO PARKING BETWEEN SIGNS
R7-52-L
18"X24"

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS AND BASES

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH WHITE (OVERLAP TO CREATE
STOP LINE)

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

ROAD CLOSED
R11-2
48"X30"

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS AND BASES

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH WHITE

REMOVE AND REPLACE CONCRETE CURB & GUTTER
AND CONCRETE MEDIAN

TEMPORARY PAVEMENT MARKING REMOVABLE
TAPE 4-INCH YELLOW

R3-2
24"X24"

W1-6
48"X24"

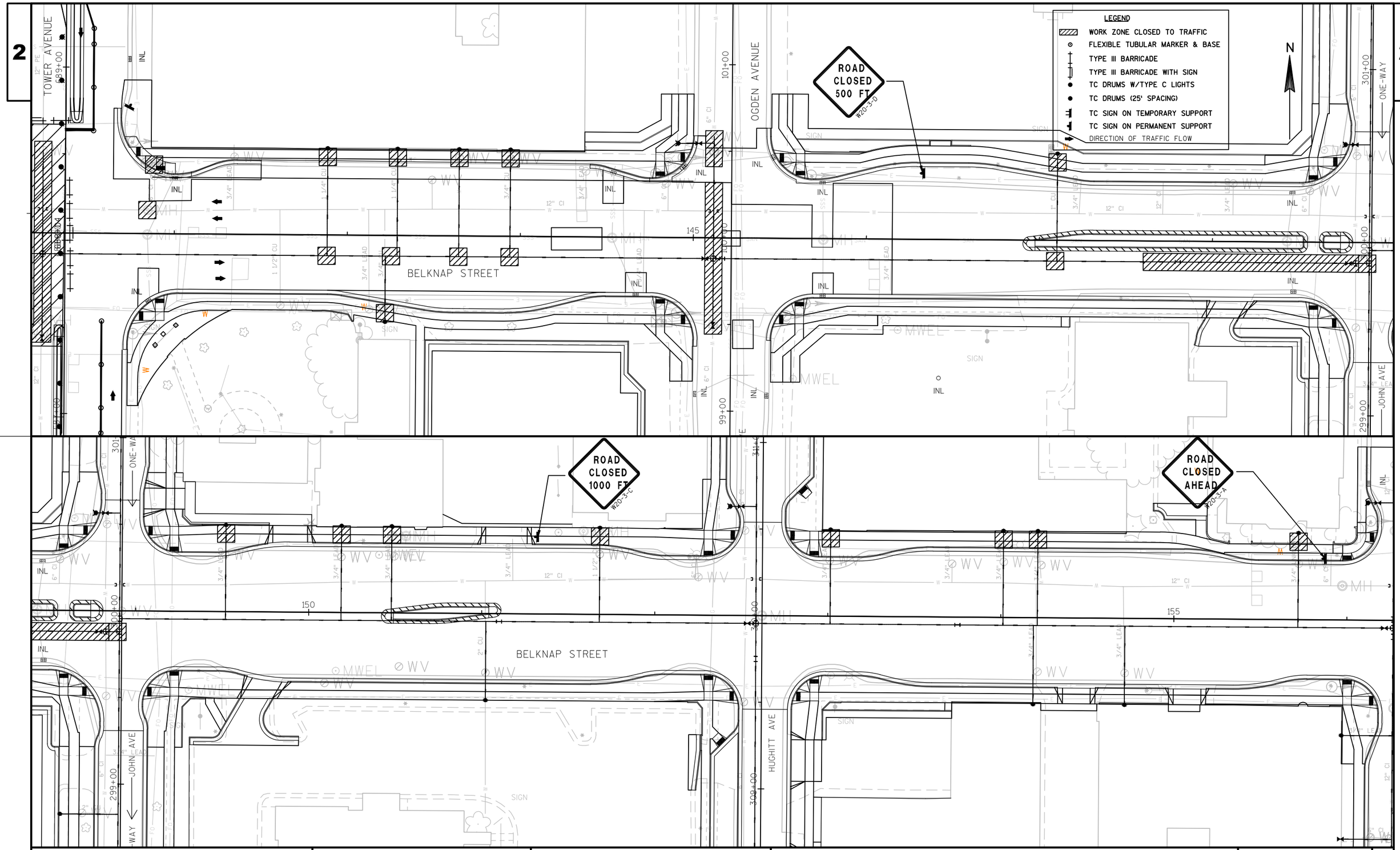
END
ROAD WORK
G20-2A
48"X24"

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1B - WATER MAIN INSTALLATION	SHEET 179	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\025001_TC WM 2.DWG
PLOT DATE : 10/24/2016 8:48 AM
PLOT BY : NICK ENGH
PLOT NAME :
PLOT SCALE : 1 IN : 60 FT_XREF



2

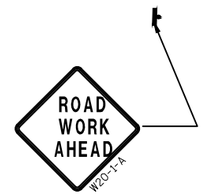
PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1B - WATER MAIN INSTALLATION	SHEET 180 E

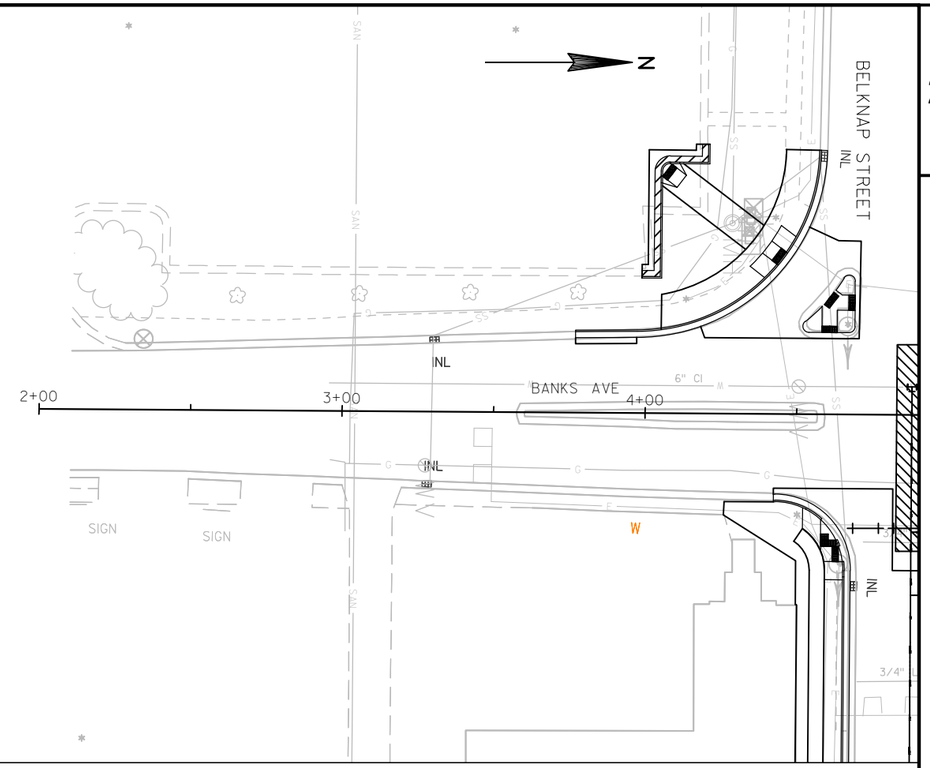
2

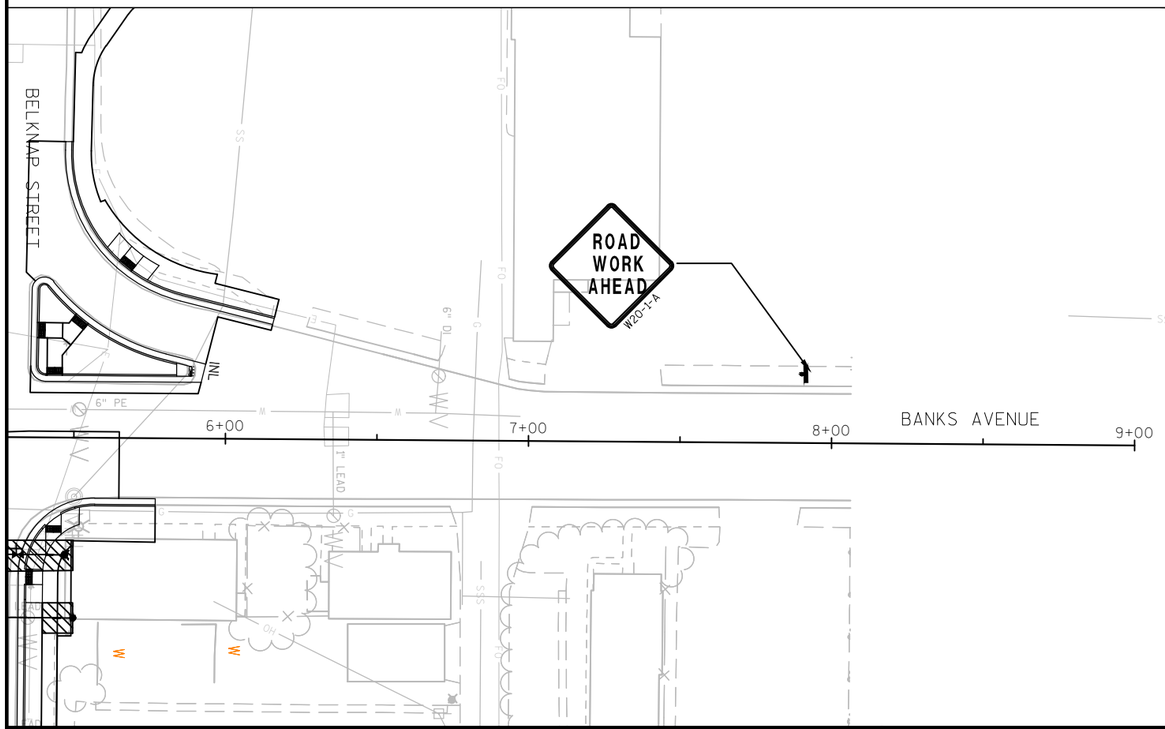
LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

BANKS AVENUE





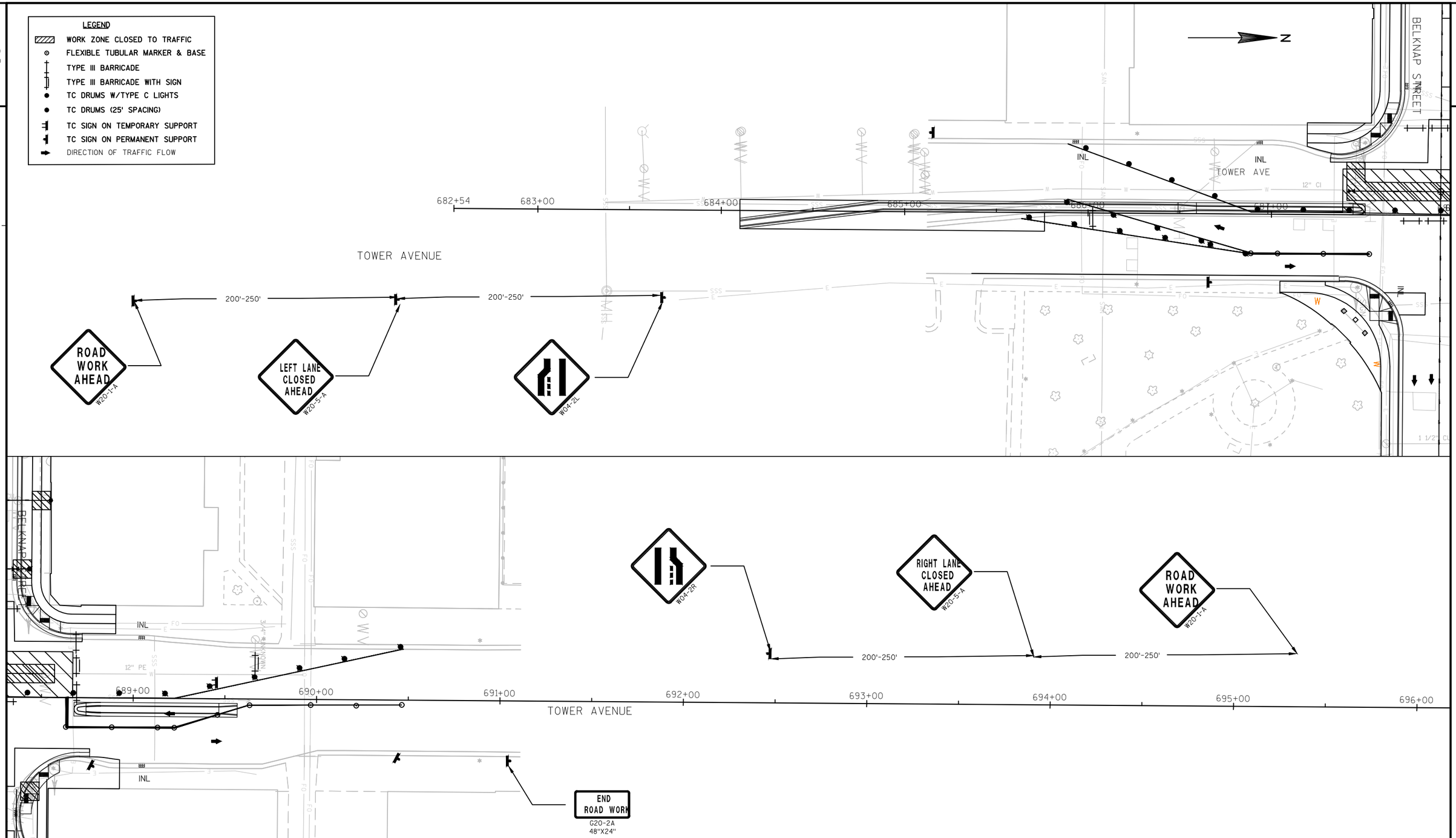


PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1B - WATER MAIN INSTALLATION	SHEET 181	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\025001_TC WM 2.DWG PLOT DATE : 10/24/2016 8:50 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 44

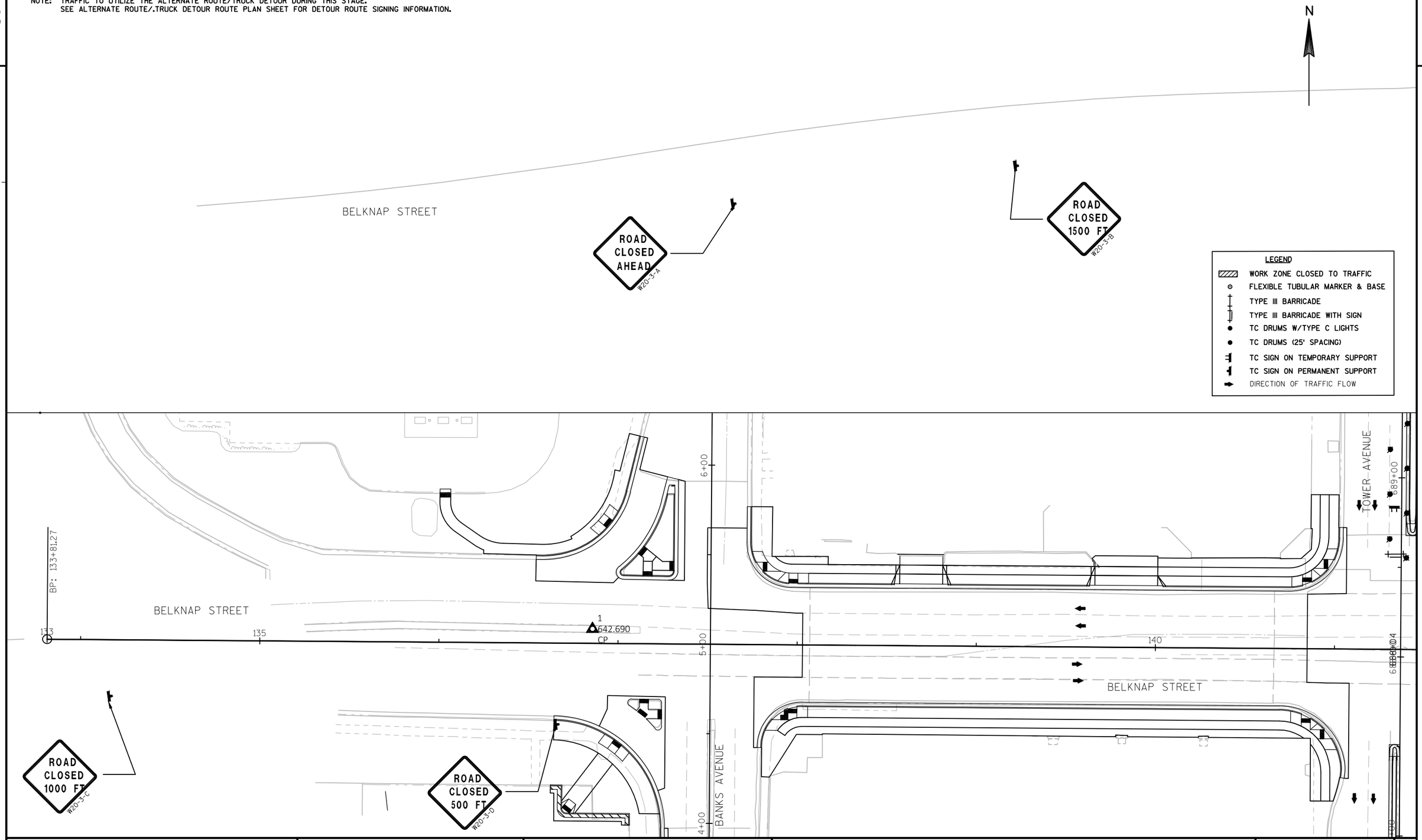
LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1B - WATER MAIN INSTALLATION	SHEET 182	E

NOTE: TRAFFIC TO UTILIZE THE ALTERNATE ROUTE/TRUCK DETOUR DURING THIS STAGE.
SEE ALTERNATE ROUTE/.TRUCK DETOUR ROUTE PLAN SHEET FOR DETOUR ROUTE SIGNING INFORMATION.



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1C - WATER MAIN INSTALLATION	SHEET 183 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\025001_TC WM 3.DWG PLOT DATE : 10/24/2016 8:52 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

2

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

N

END ROAD WORK
G20-2A
48"X24"

NO PARKING BETWEEN SIGNS
R7-52-R
18"X24"

W1-6
48"X24"

R3-1
24"X24"

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS AND BASES

LANE CLOSED
R11-2-L
48"X30"

STOP
R1-1
30"X30"

NO PARKING BETWEEN SIGNS
R7-52-L
18"X24"

691+00
690+00
689+00
688+04
688+00
687+00
686+00
103+00
102+00
101+00
100+00
99+00
98+00
303+00
302+00
301+00
300+00
299+00
298+00

TOWER AVENUE
TOWER AVE
OGDEN AVENUE
JOHN AVENUE
JOHN AVE
ONE-WAY
BELKNAP STREET

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS AND BASES

R3-2
24"X24"

END ROAD WORK
G20-2A
48"X24"

2
641.870
CP

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1C - WATER MAIN INSTALLATION	SHEET 184 E

2

JOHN AVENUE

ONE-WAY

301+00

ROAD CLOSED 500 FT
W20-3-D

300+00

150

HUGHITT AVENUE

311+00

N

ROAD CLOSED 1000 FT
W20-3-C

310+00

155

BELKNAP STREET

299+00

JOHN AVE

ONE-WAY

331

HAMMOND AVENUE

PI: 156+47.14

3
640.180
CP

ROAD WORK AHEAD
W20-1-A

330+00

160

HAMMOND AVE

329+00

HUGHITT AVE

309+00

341+

CUMMING AVENUE

340+00

BELKNAP STREET

CUMMING AVE

339+00

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

2

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1C - WATER MAIN INSTALLATION	SHEET 185	E

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

N

BELKNAP STREET

END ROAD WORK
G20-2A
48"X24"

TOWER AVE

TOWER AVENUE

682+54 683+00 684+00 685+00 686+00 687+00 68

200'-250' 200'-250'

ROAD WORK AHEAD
W20-1-A

RIGHT LANE CLOSED AHEAD
W20-5-A

W04-2R

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE

LANE CLOSED
R11-2-L
48"X30"

R3-1
24"X24"

BELKNAP STREET

W1-6
48"X24"

ROAD WORK AHEAD
W20-1-A

689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00

TOWER AVENUE

LANE CLOSED
R11-2-L
48"X30"

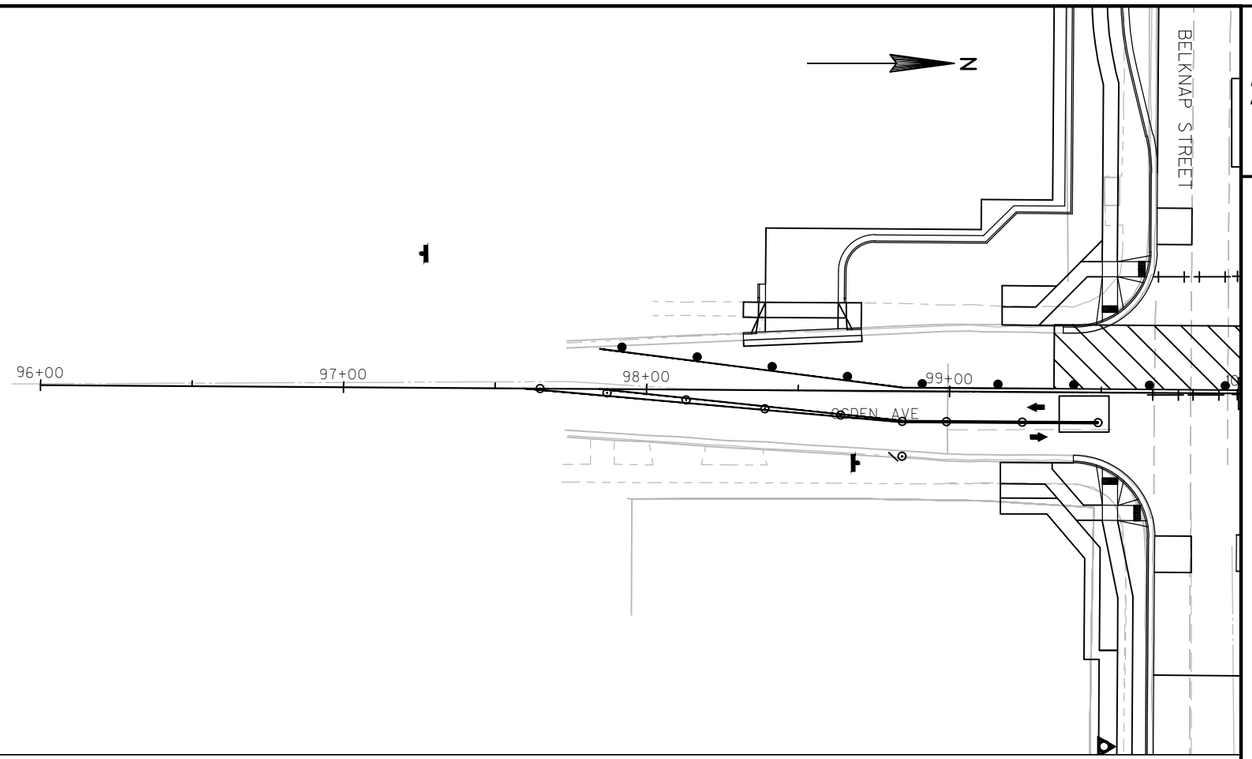
R3-2
24"X24"

END ROAD WORK
G20-2A
48"X24"

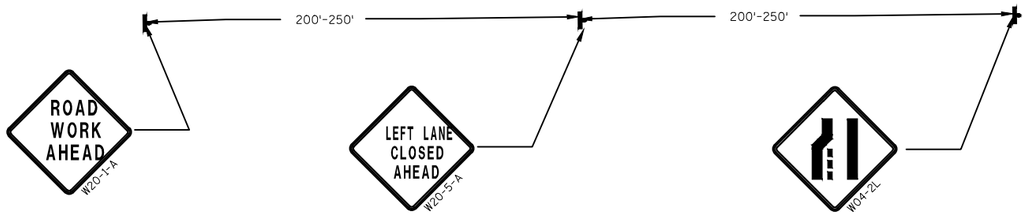
PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1C - WATER MAIN INSTALLATION	SHEET 186	E

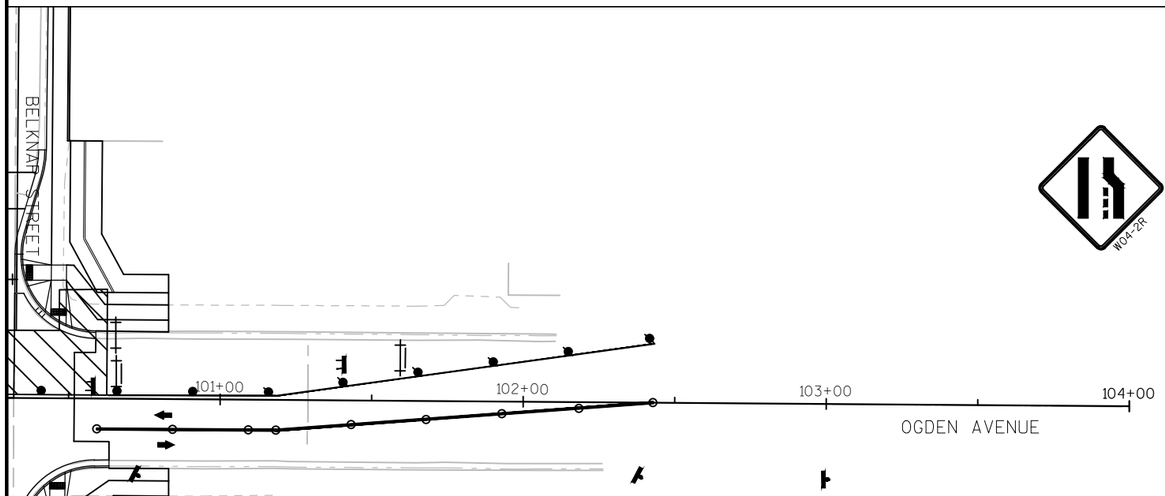
LEGEND

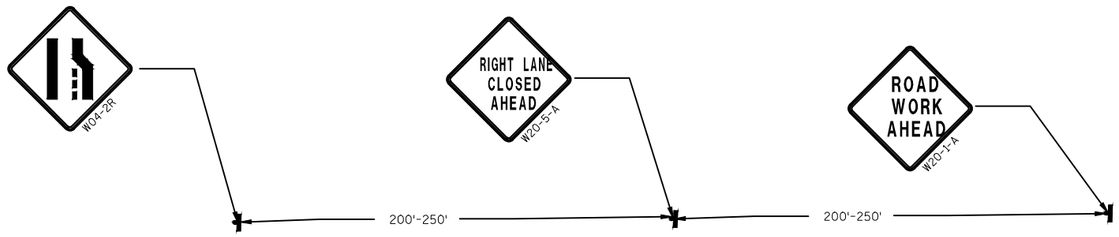
- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW



OGDEN AVENUE







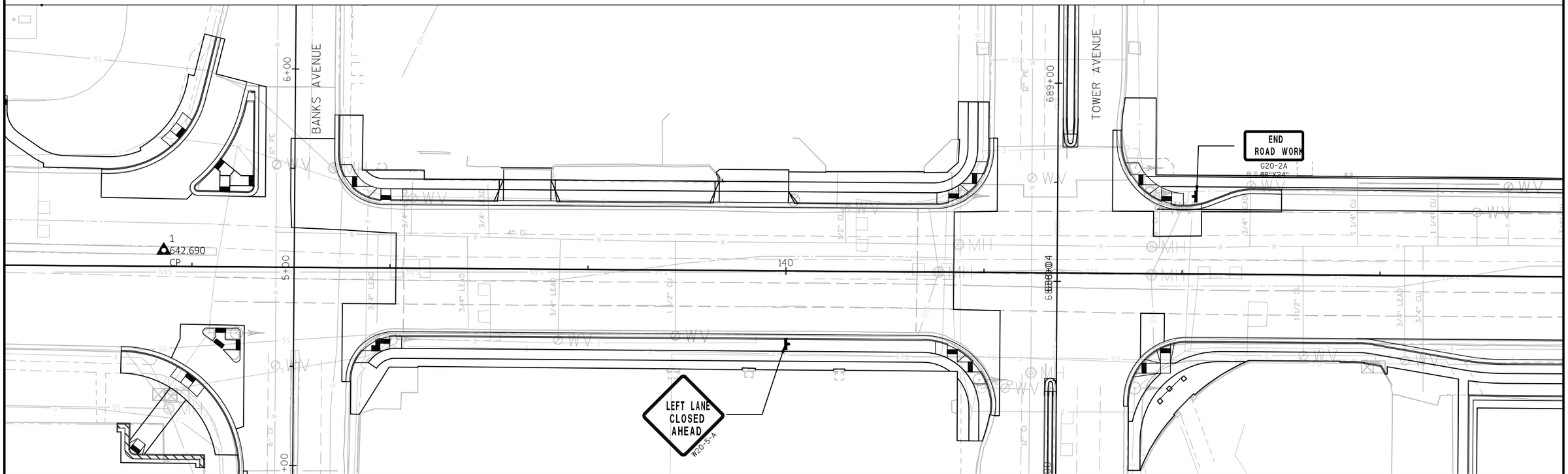
2

NOTE: ALL TRUCK TRAFFIC TO UTILIZE THE ALTERNATE ROUTE/TRUCK DETOUR DURING THIS STAGE.
SEE ALTERNATE ROUTE/.TRUCK DETOUR ROUTE PLAN SHEET FOR DETOUR ROUTE SIGNING INFORMATION.

2

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1D - WATER MAIN INSTALLATION	SHEET 188 E

2

LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- FLEXIBLE TUBULAR MARKER & BASE
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TC DRUMS W/TYPE C LIGHTS
- TC DRUMS (25' SPACING)
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC FLOW

ROAD WORK AHEAD
W20-1-A

JOHN AVENUE

OGDEN AVENUE

HUCHITT AVENUE

ONLY
R3-50-R
30"X36"

R3-27 24"X24"
R3-2 24"X24"

ONE-WAY

W1-6
48"X24"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1-A

R3-27 24"X24"
R3-2 24"X24"

BELKNAP STREET

2
641.870
CP

W1-6
48"X24"

R3-2
24"X24"

LANE CLOSED
R11-2-L
48"X30"

W04-2L

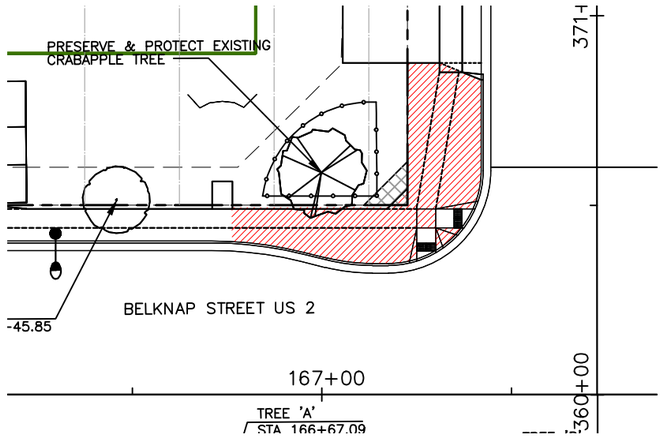
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW

END ROAD WORK
G20-2A
48"X24"

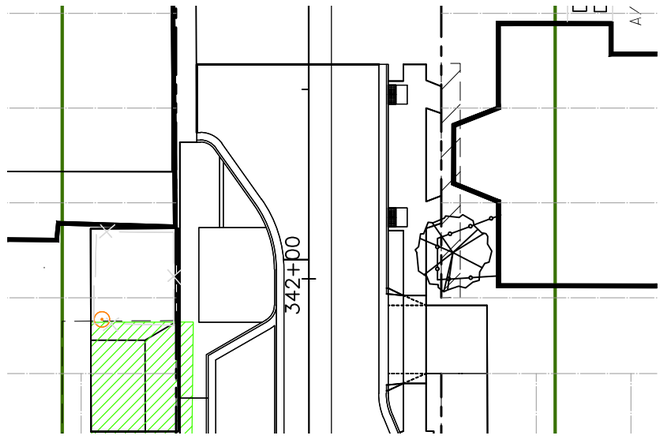
N

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1D - WATER MAIN INSTALLATION	SHEET	E

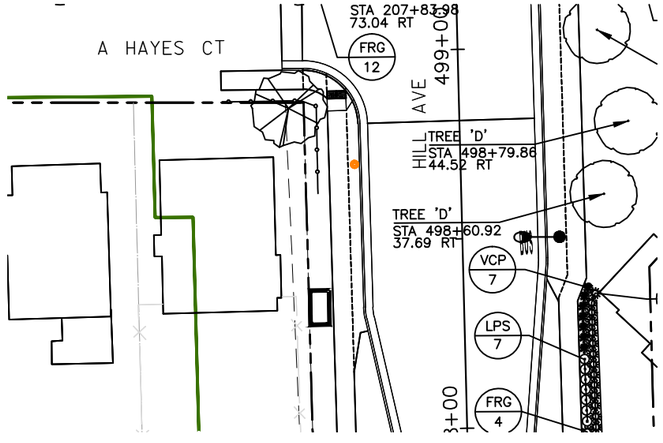
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\025001_TC WM 4.DWG PLOT DATE : 10/24/2016 8:58 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : **********

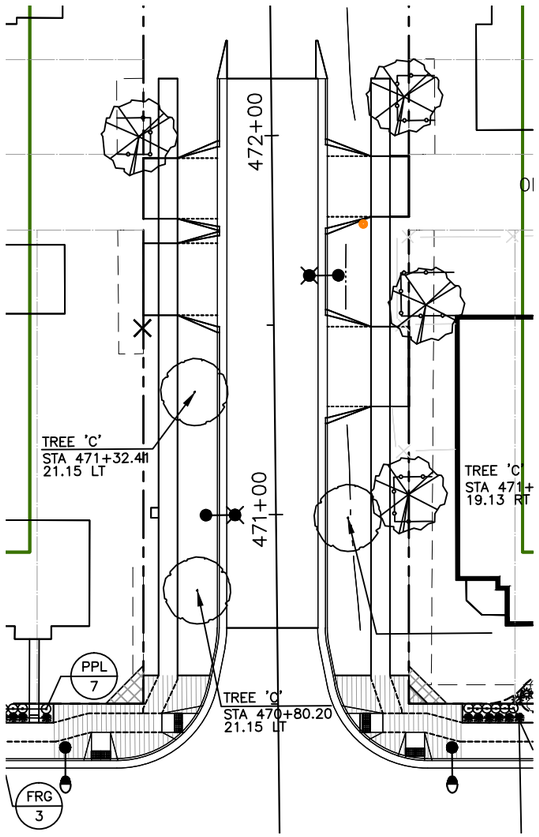


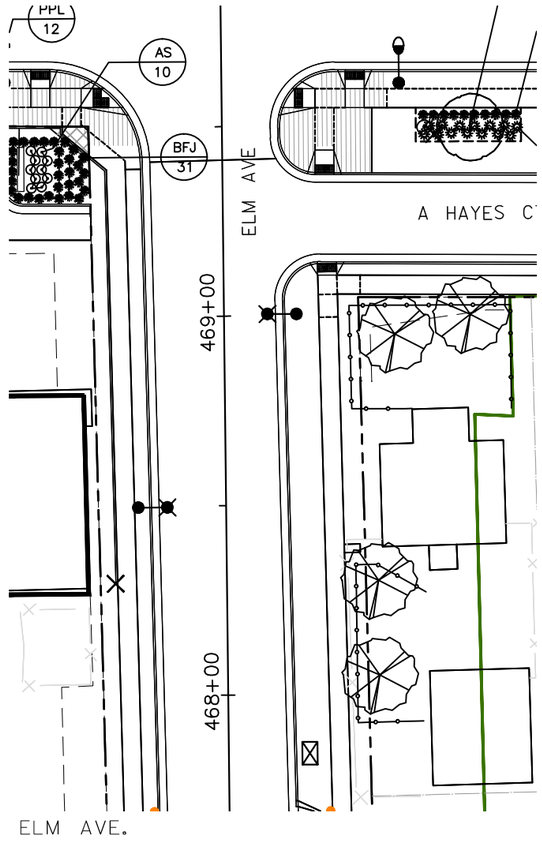
BELKNAP & LAMBORN

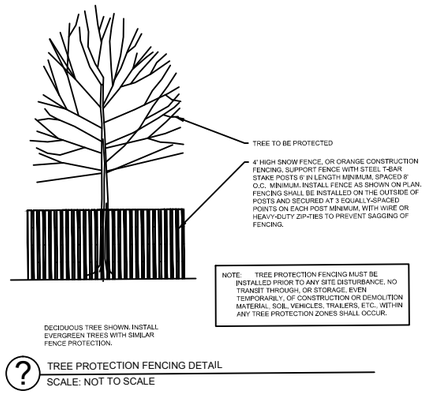


CUMMING AVE.









? TREE PROTECTION FENCING DETAIL
SCALE: NOT TO SCALE

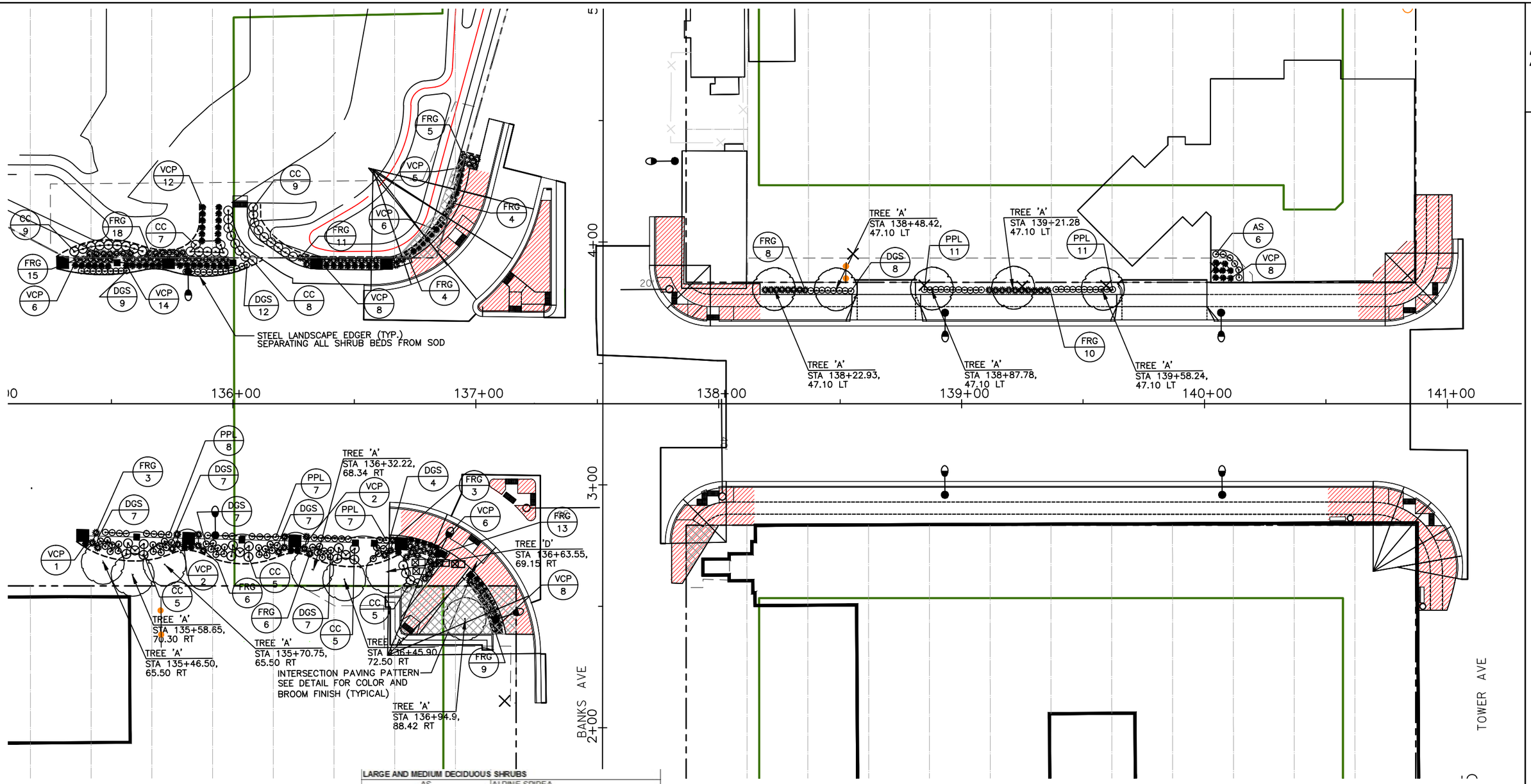
Protecting Trees

Project 8680-00-71			
CAT 0010			
STATION	LOCATION	SPV. 0060.83 Each	REMARKS
167+10	Belknap St. 60 LT	1	Crab tree
	CAT 0010 TOTAL	1	
PROJECT 8680-00-71			
CAT 0080			
STATION	LOCATION	SPV. 0060.84 Each	REMARKS
468+05	Elm Ave. 40 RT	1	Pine
468+30	Elm Ave. 40 RT	1	Pine
468+95	Elm Ave. 45 RT	1	Red maple
469+00	Elm Ave. 65 RT	1	Birch Trees
471+05	Elm Ave. 35 RT	1	Maple
471+55	Elm Ave. 40 RT	1	Maple
472+00	Elm Ave. 35 LT	1	Crimson King Maple
472+10	Elm Ave. 35 RT	1	Maple
342+07	Cumming Ave. 38 RT	1	Crab tree
	CAT 0080 TOTAL	9	
	PROJECT 8680-00-71 TOTAL	10	
PROJECT 8998-00-24			
CAT 0010			
STATION - STATION	LOCATION	SPV. 0060.84 Each	REMARKS
498+85	Hill Ave. 45 LT	1	Red maple
	PROJECT 8998-00-24 TOTAL	1	

ORIGINAL PLANS PREPARED BY
WISCONSIN
LUKE W. SYDOW
L-495-014
DULUTH
MN
LANDSCAPE ARCHITECT
1 AUG. 2016

20 0 20 40
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E



TREE PLANT LIST	
SYMBOL	COMMON NAME
TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST
TREE 'B'	IVORY SILK LILAC TREE
TREE 'C'	HARVEST GOLD LINDEN
TREE 'D'	SIENNA GLEN MAPLE
TREE 'E'	DISCOVERY ELM
TREE 'F'	COMMON HACKBERRY
TREE 'G'	SPRING SNOW CRABAPPLE
TREE 'H'	PRAIRIE ROSE CRABAPPLE

LARGE AND MEDIUM DECIDUOUS SHRUBS	
AS	ALPINE SPIREA
CC	CRANBERRY COTONEASTER
DGS	DAKOTA GOLDCHARM SPIREA
LPS	LITTLE PRINCESS SPIREA
PPL	PRAIRIE PETITE LILAC
AP	ABBOTSWOOD POTENTILLA
GP	GOLDFINGER POTENTILLA
LARGE AND MEDIUM EVERGREEN SHRUBS	
BFJ	BLUE FOREST JUNIPER
DNS	DWARF NORWAY SPRUCE
VCP	VALLEY CUSHION MUGHO PINE
SCS	SHERWOOD COMPACT SPRUCE
ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

LEGEND

OVERSTORY TREE

ORIGINAL PLANS PREPARED BY
WISCONSIN
LUKE W. SYDOW
L-485-014
DULUTH
MN
LANDSCAPE ARCHITECT
1 AUG. 2016

20 0 20 40
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E

2

689+00

688+04

101+00

100+00

99+00

141+00

142+00

143+00

144+00

145+00

146+00

147+00

TOWER AVE

GOLDEN AVE

TREE 'A'
STA 143+56.55,
57.75 RT

TREE 'A'
STA 143+94.43,
57.75 RT

TREE 'A'
STA 144+39.00,
57.75 RT

TREE 'B'
STA 144+61.89,
57.75 RT

BENCH AND TRASH RECEPTACLE

BENCH AND TRASH RECEPTACLE, TYP

TREE 'A'
STA 144+79.49
58.85 LT

TREE 'A'
STA 146+16.53
54.98 LT

TREE 'A'
STA 146+82.48,
53.13 LT

TREE 'A'
STA 145+94.64
54.03 LT

TREE 'B'
STA 144+74.10
63.03 RT

TREE 'B'
STA 145+60.31,
72.07 RT

TREE 'B'
STA 144+77.66
75.15 RT

TREE 'B'
STA 145+79.07
52.70 RT

TREE 'A'
STA 146+23.55
47.48 RT

TREE 'A'
STA 146+63.78
47.48 RT

TREE 'B'
STA 145+66.06
59.15 RT

TREE 'B'
STA 99+04.55
41.58 LT

TREE 'B'
STA 98+85.24,
41.58 LT

INTERSECTION BUMP-OUT

INTERSECTION PAVING PATTERN SEE DETAIL FOR COLOR AND BROOM FINISH (TYPICAL)

DECORATIVE BOLLARD (TYPICAL)

STEEL EDGER (TYPICAL)

DGS 5 · PPL 7 · FRG 9 · VCP 7 · VCP 12 · DGS 11 · FRG 9 · PPL 12 · DGS 18 · FRG 8

AS 9 · VCP 9 · DGS 11 · VCP 16 · AS 10 · FRG 21 · DGS 9 · FRG 15 · FRG 13 · FRG 12 · PPL 10 · AS 9 · VCP 2 · PPL 12 · VCP 9 · PPL 12 · VCP 6 · VCP 4 · FRG 3 · VCP 7 · FRG 34 · FRG 6 · FRG 2 · VCP 2 · VCP 13

TREE PLANT LIST	
SYMBOL	COMMON NAME
TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST
TREE 'B'	IVORY SILK LILAC TREE
TREE 'C'	HARVEST GOLD LINDEN
TREE 'D'	SIENNA GLEN MAPLE
TREE 'E'	DISCOVERY ELM
TREE 'F'	COMMON HACKBERRY
TREE 'G'	SPRING SNOW CRABAPPLE
TREE 'H'	PRAIRIE ROSE CRABAPPLE

LARGE AND MEDIUM DECIDUOUS SHRUBS	
AS	ALPINE SPIREA
CC	CRANBERRY COTONEASTER
DGS	DAKOTA GOLDCHARM SPIREA
LPS	LITTLE PRINCESS SPIREA
PPL	PRAIRIE PETITE LILAC
AP	ABBOTSWOOD POTENTILLA
GP	GOLDFINGER POTENTILLA
LARGE AND MEDIUM EVERGREEN SHRUBS	
BFJ	BLUE FOREST JUNIPER
DNS	DWARF NORWAY SPRUCE
VCP	VALLEY CUSHION MUGHO PINE
SCS	SHERWOOD COMPACT SPRUCE
ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

LEGEND

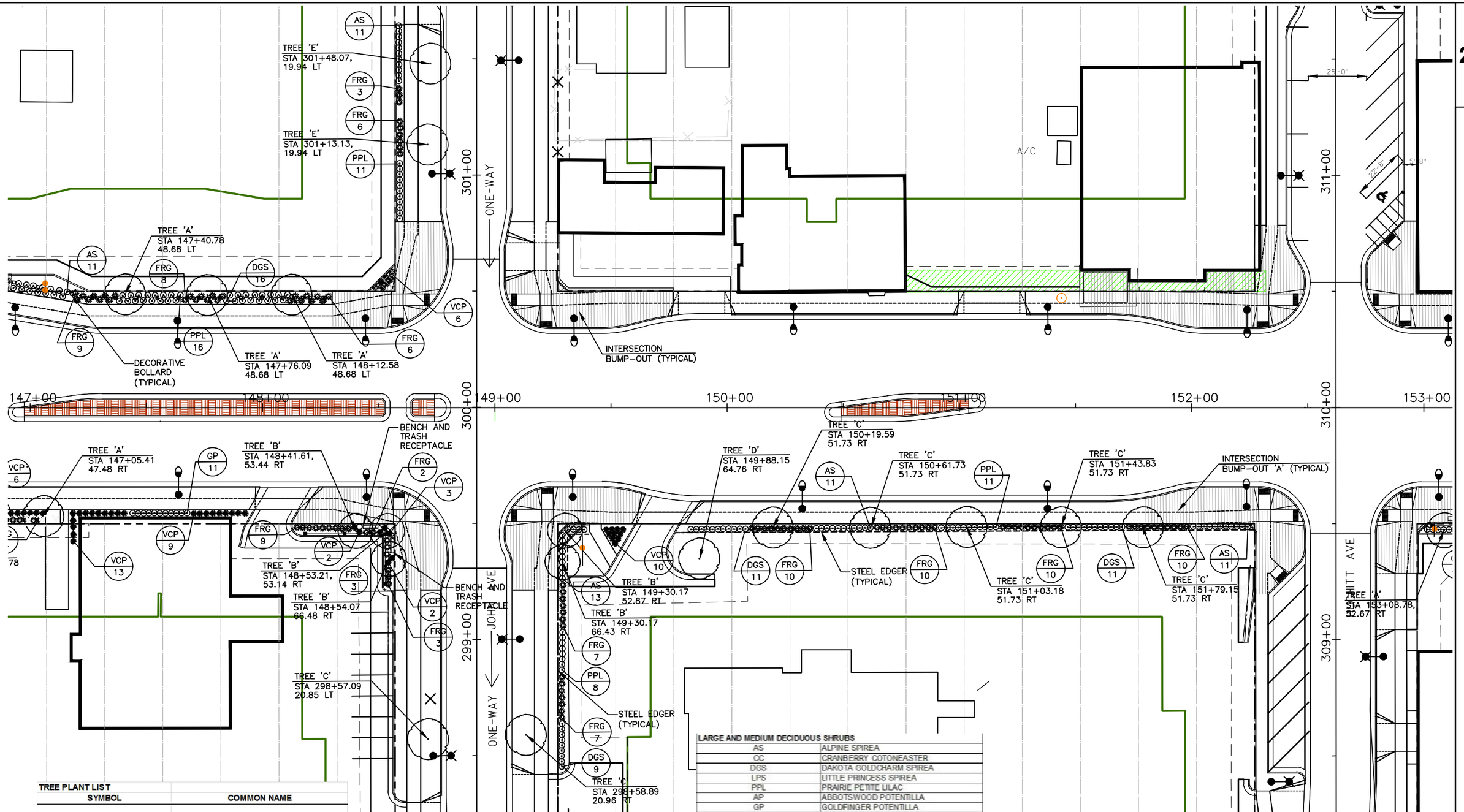
OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71 | HWY: USH 2 | COUNTY: DOUGLAS | LANDSCAPE PLAN | SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 4:59 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF WISDOT/CADI



TREE PLANT LIST	
SYMBOL	COMMON NAME
TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST
TREE 'B'	IVORY SILK LILAC TREE
TREE 'C'	HARVEST GOLD LINDEN
TREE 'D'	SIENNA GLEN MAPLE
TREE 'E'	DISCOVERY ELM
TREE 'F'	COMMON HACKBERRY
TREE 'G'	SPRING SNOW CRABAPPLE
TREE 'H'	PRAIRIE ROSE CRABAPPLE

LARGE AND MEDIUM DECIDUOUS SHRUBS	
AS	ALPINE SPIREA
CC	CRANBERRY COTONEASTER
DGS	DAKOTA GOLDCHARM SPIREA
LPS	LITTLE PRINCESS SPIREA
PPL	PRAIRIE PETITE LILAC
AP	ABBOTSWOOD POTENTILLA
GP	GOLDFINGER POTENTILLA
LARGE AND MEDIUM EVERGREEN SHRUBS	
BFJ	BLUE FOREST JUNIPER
DNS	DWARF NORWAY SPRUCE
VCP	VALLEY CUSHION MUGHO PINE
SCS	SHERWOOD COMPACT SPRUCE
ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

LEGEND

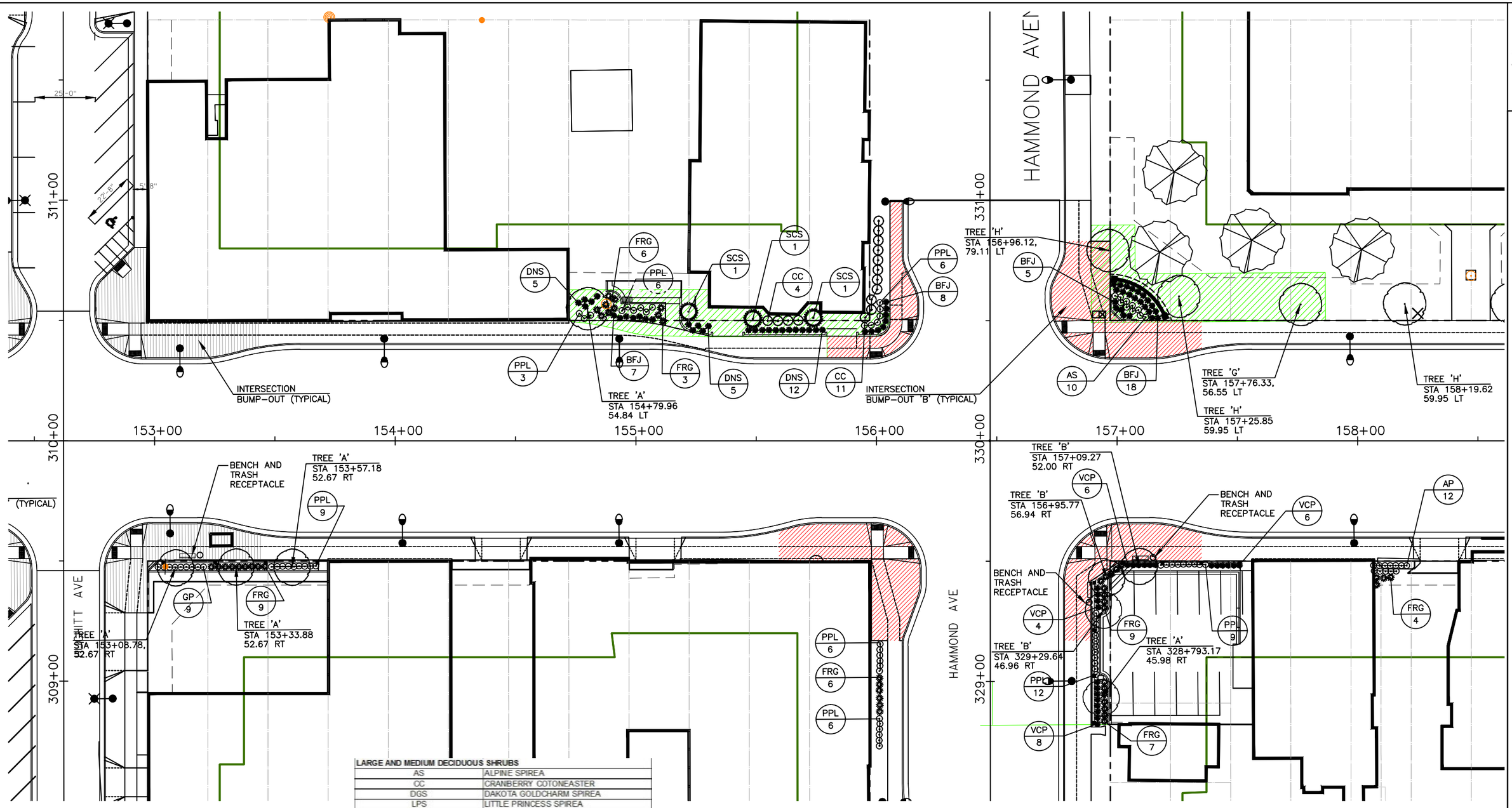
OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 4:59 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF WISDOT/CADI



TREE PLANT LIST	
SYMBOL	COMMON NAME
TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST
TREE 'B'	IVORY SILK LILAC TREE
TREE 'C'	HARVEST GOLD LINDEN
TREE 'D'	SIENNA GLEN MAPLE
TREE 'E'	DISCOVERY ELM
TREE 'F'	COMMON HACKBERRY
TREE 'G'	SPRING SNOW CRABAPPLE
TREE 'H'	PRAIRIE ROSE CRABAPPLE

LARGE AND MEDIUM DECIDUOUS SHRUBS	
AS	ALPINE SPIREA
CC	CRANBERRY COTONEASTER
DGS	DAKOTA GOLDCHARM SPIREA
LPS	LITTLE PRINCESS SPIREA
PPL	PRAIRIE PETITE LILAC
AP	ABBOTSWOOD POTENTILLA
GP	GOLDFINGER POTENTILLA
LARGE AND MEDIUM EVERGREEN SHRUBS	
BFJ	BLUE FOREST JUNIPER
DNS	DWARF NORWAY SPRUCE
VCP	VALLEY CUSHION MUGHO PINE
SCS	SHERWOOD COMPACT SPRUCE
ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

LEGEND

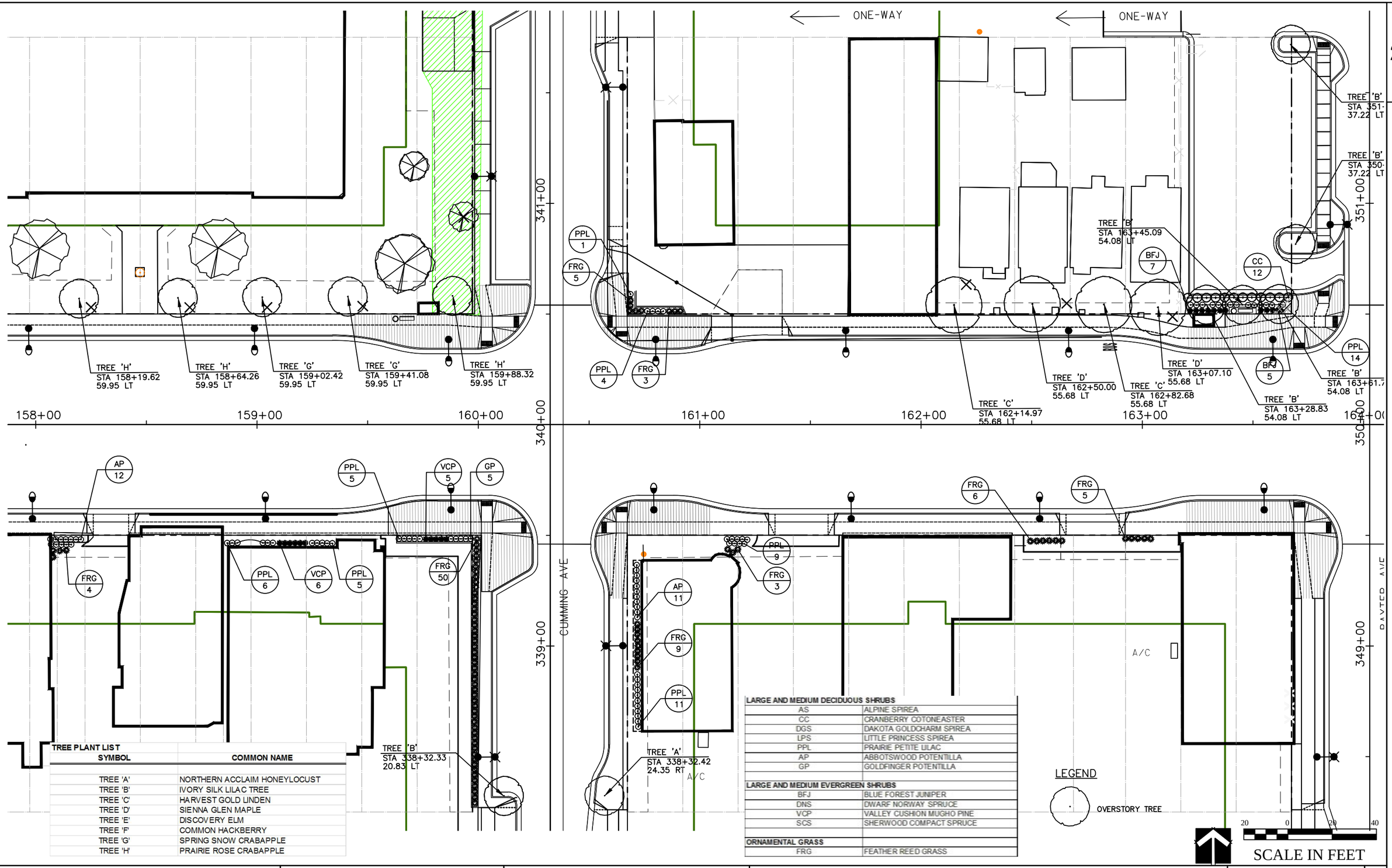
OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 4:59 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF WISDOT/CADI



TREE PLANT LIST

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CC	CRANBERRY COTONEASTER
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ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

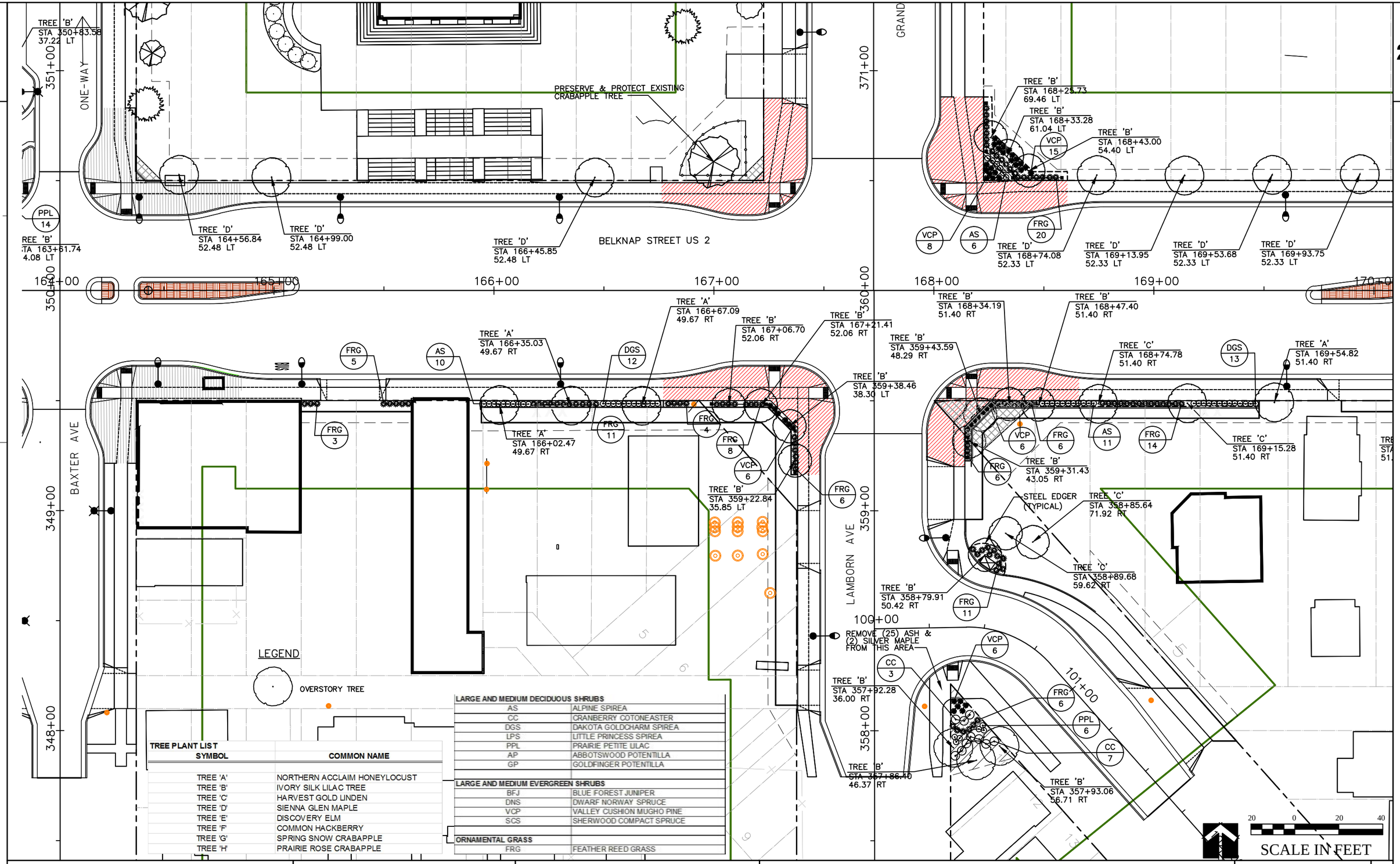
LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E

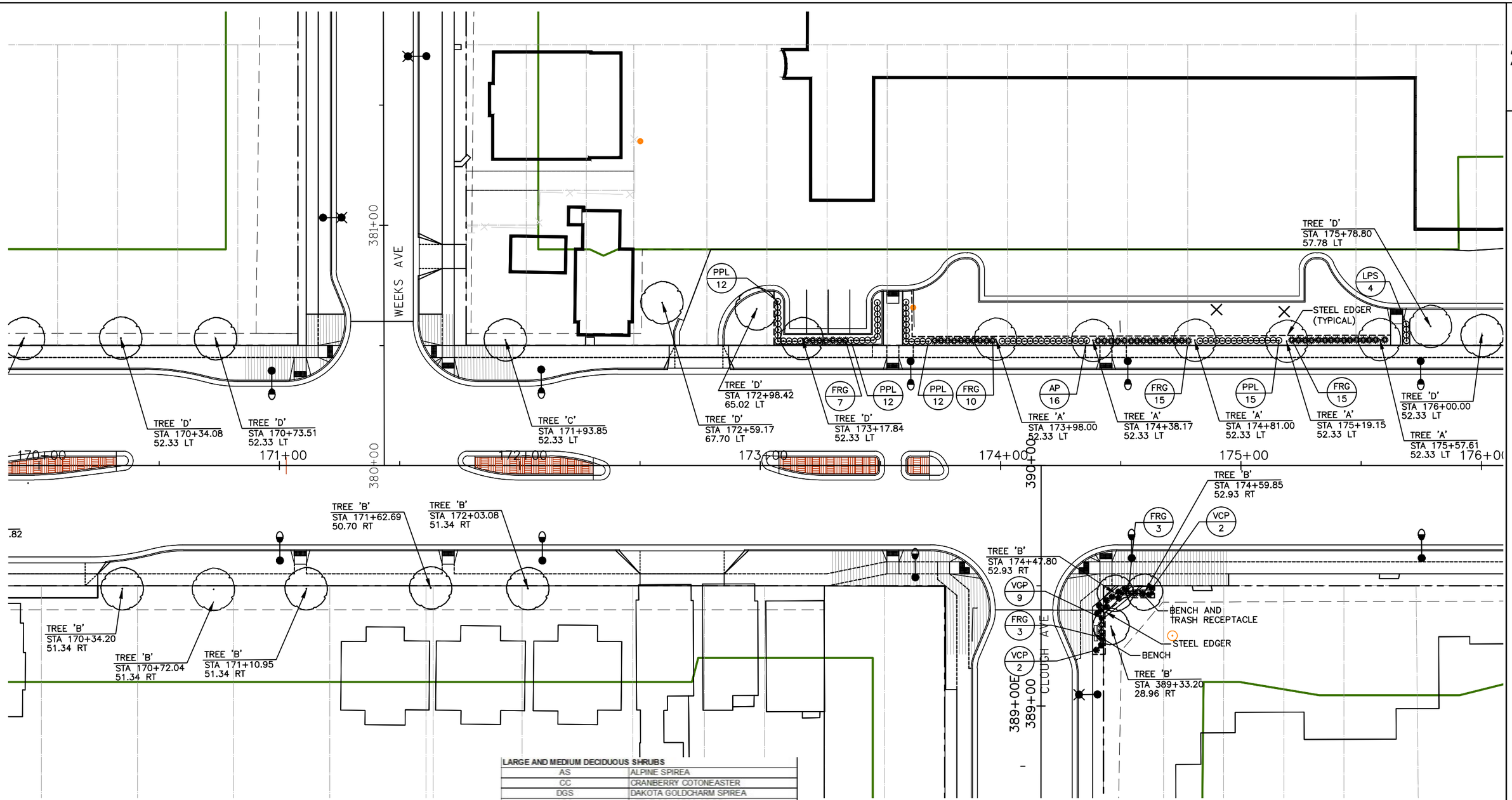


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SCS	SHERWOOD COMPACT SPRUCE
ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

PROJECT NO: 8680-00-71 | HWY: USH 2 | COUNTY: DOUGLAS | LANDSCAPE PLAN | SHEET _____ E



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ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET ----- E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:00 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1:40_XREF_XREF WISDOT/CADI

2

TREE 'C'
STA 401+52.37
21.68 RT

TREE 'C'
STA 401+16.13
21.68 RT

PPL 7

FRG 11

PPL 7

TREE 'B'
STA 179+20.34
66.72 LT

TREE 'B'
STA 179+27.73
57.72 LT

TREE 'B'
STA 179+39.47
53.49 LT

VCP 2

FRG 5

VCP 3

FRG 8

FRG 8

FRG 12

VCP 4

STEEL EDGER (TYPICAL)

FRG 6

VCP 6

AP 6

PPL 5

PPL 5

GP 6

PPL 7

VCP 6

FRG 5

FRG 4

TREE 'A'
STA 180+57.65
47.08 LT

TREE 'A'
STA 180+06.20
47.08 LT

FISHER AVE

401+00

400+00

400+00

399+00

176+00

177+00

178+00

179+00

180+00

181+00

182+00

TREE 'E'
STA 176+74.42
52.33 LT

TREE 'E'
STA 177+04.77
52.33 LT

TREE 'E'
STA 177+34.69
52.33 LT

TREE 'E'
STA 177+65.72
52.33 LT

TREE 'E'
STA 177+97.25
52.33 LT

TREE 'E'
STA 178+26.73
52.33 LT

TREE 'E'
STA 176+64.93
47.42 RT

TREE 'E'
STA 177+01.09
50.93 RT

TREE 'E'
STA 177+43.47
57.21 RT

TREE 'E'
STA 177+84.37
57.21 RT

TREE 'E'
STA 178+23.07
48.58 RT

TREE 'D'
STA 399+28.75
26.01 LT

DGS 18

FRG 9

FRG 15

PPL 19

FRG 11

FRG 8

FRG 10

AS 15

FRG 13

TREE 'A'
STA 179+20.60
47.37 RT

TREE 'A'
STA 179+60.73
47.37 RT

TREE 'A'
STA 179+97.26
47.37 RT

DGS 14

PPL 7

FRG 7

PPL 7

AS 12

TREE 'A'
STA 181+62.70
47.37 RT

DGS 12

FRG 10

VCP 19

TREE 'A'
STA 181+22.73
47.37 RT

FRG 17

LPS 20

PROTECT UTILITY PULL BOX DURING CONSTRUCTION

TREE 'C'
STA 398+96.81
26.01 LT

TREE 'D'
STA 399+67.31
26.01 LT

TREE 'C'
STA 398+35.88
26.01 LT

TREE 'D'
STA 399+28.17
20.38 RT

TREE 'C'
STA 398+95.68
20.38 RT

TREE 'D'
STA 398+65.29
20.38 RT

TREE 'C'
STA 398+43.73
32.92 RT

LARGE AND MEDIUM DECIDUOUS SHRUBS	
AS	ALPINE SPIREA
CC	CRANBERRY COTONEASTER
DGS	DAKOTA GOLDCHARM SPIREA
LPS	LITTLE PRINCESS SPIREA
PPL	PRAIRIE PETITE LILAC
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SCS	SHERWOOD COMPACT SPRUCE
ORNAMENTAL GRASS	
FRG	FEATHER REED GRASS

LEGEND

OVERSTORY TREE

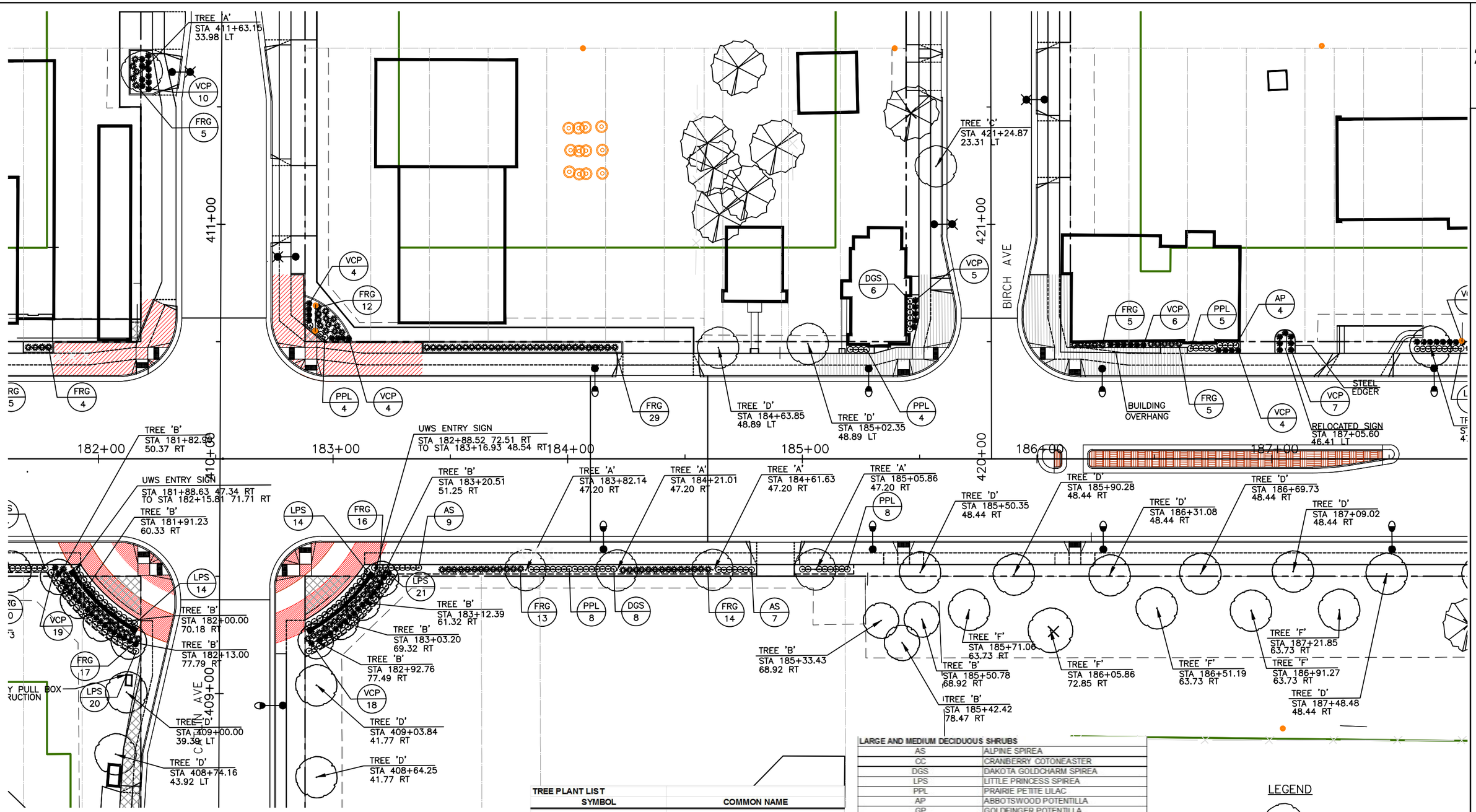
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20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:00 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF WISDOT/CADI



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LEGEND

OVERSTORY TREE

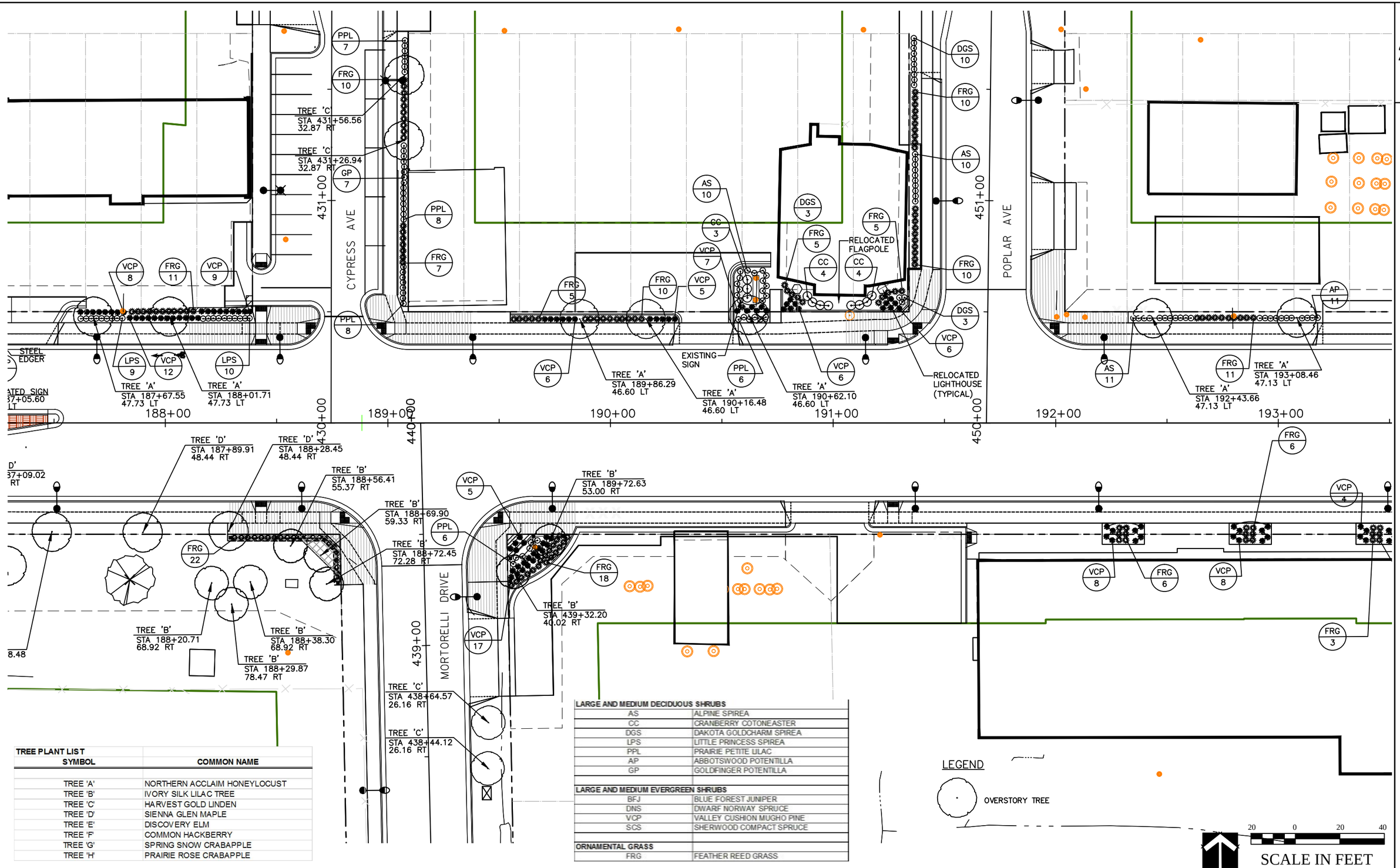
0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE PLAN	SHEET _____ E

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2



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ORNAMENTAL GRASS	
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LEGEND

OVERSTORY TREE

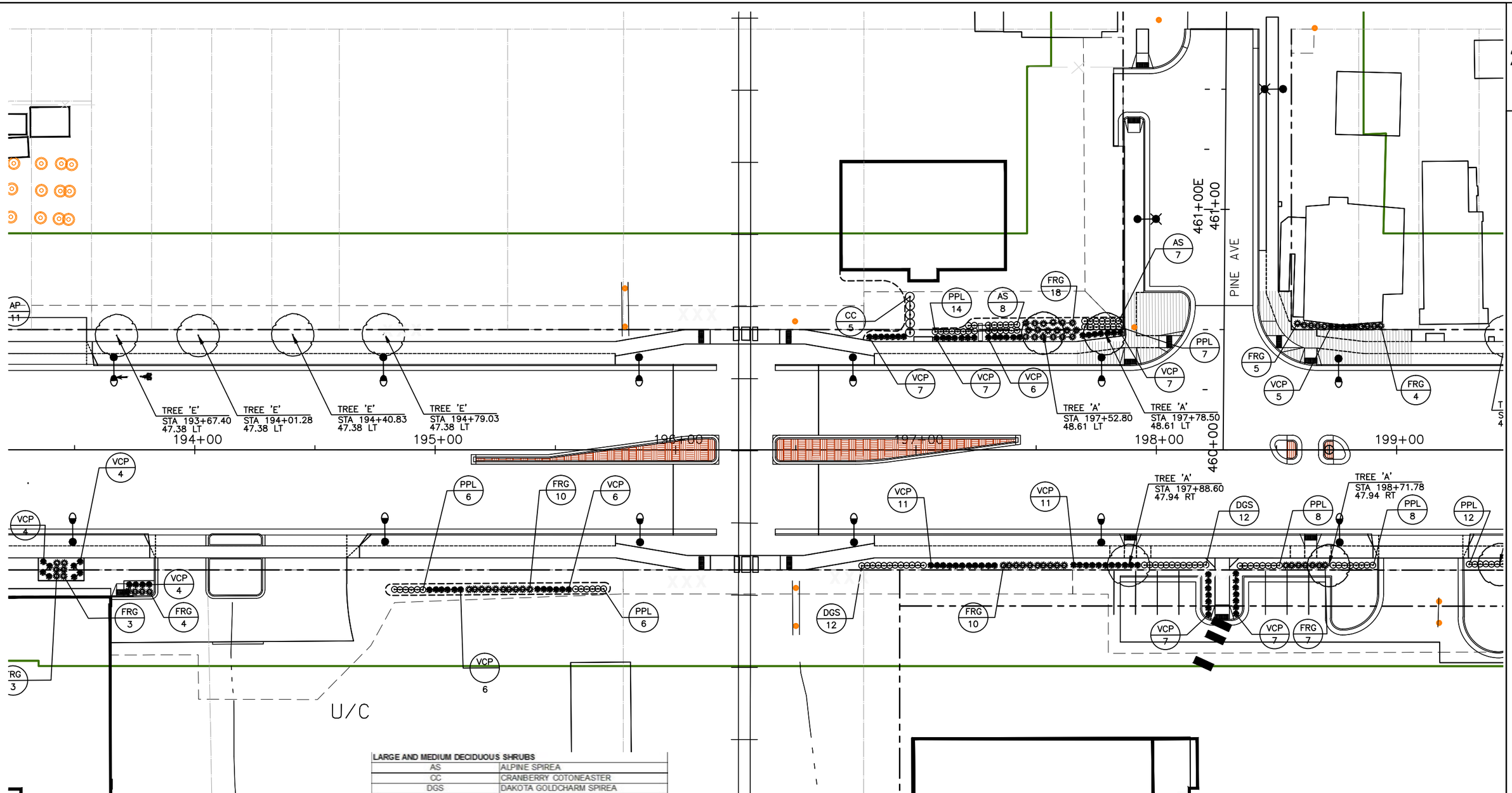
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SCALE IN FEET

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2



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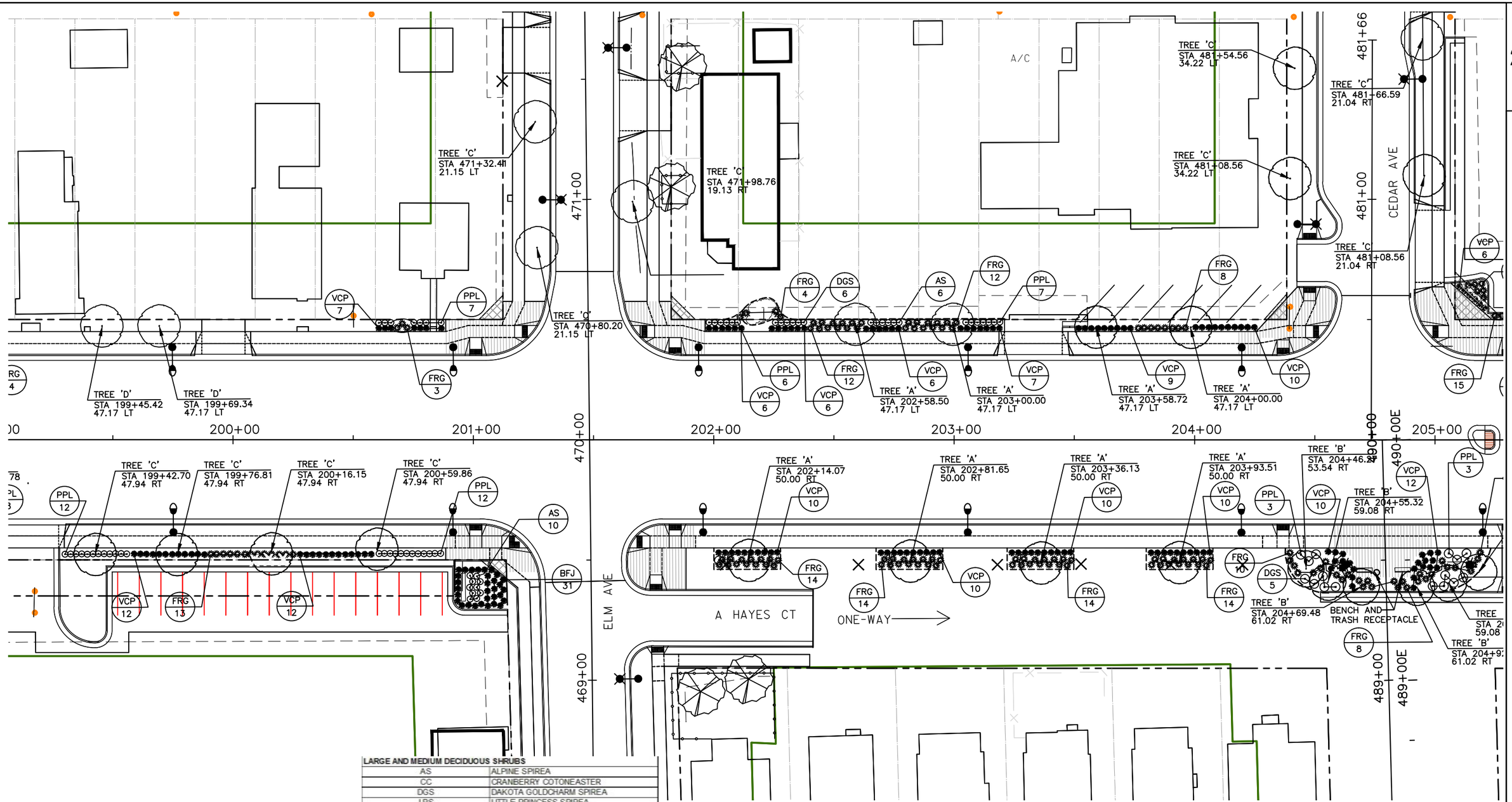
OVERSTORY TREE

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SCALE IN FEET

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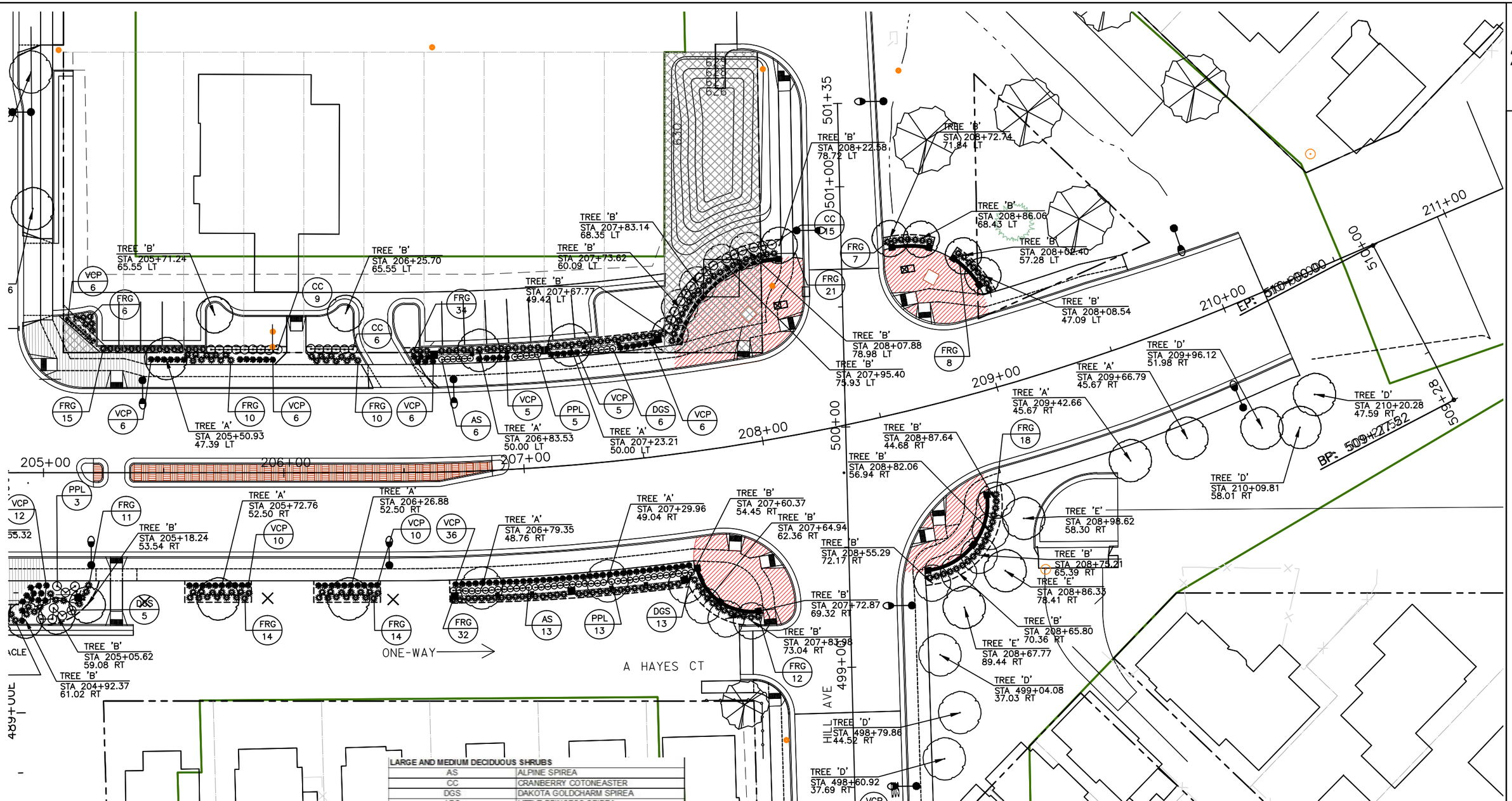
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2

ORNAMENTAL FENCE AND COLUMN
STA 135+32.43
TO STA 136+01.00
58.10 LT TO 58.10 LT

ENTRY COLUMN
STA 135+30.00
55.65 LT

ENTRY COLUMN
STA 135+73.51
55.65 LT

ENTRY COLUMN
STA 136+34.41
55.65 LT

ORNAMENTAL FENCE AND COLUMN
STA 136+36.90
TO STA 136+60.71
57.95 LT TO 57.95 LT

ENTRY COLUMN
STA 136+63.22
55.65 LT

ORNAMENTAL FENCE AND COLUMN
STA 136+65.71
TO STA 4+33.63
57.95 LT TO 57.80 LT

4+00

136+00 137+00 138+00 139+00 140+00 141+00

ENTRY COLUMN
STA 135+38.35
51.50 RT

ORNAMENTAL FENCE AND COLUMN
STA 135+40.72
TO STA 136+51.68
54.30 RT TO 57.20 RT

ENTRY COLUMN
STA 135+81.90
53.00 RT

ENTRY COLUMN
STA 136+25.65
54.00 RT

ENTRY COLUMN
STA 136+69.30
55.00 RT

ORNAMENTAL FENCE AND COLUMN
STA 136+57.00
TO STA 136+86.69
57.32 RT TO 57.51 RT

3+00

ORNAMENTAL FENCE AND COLUMN
STA 2+38.89
TO STA 2+62.53
45.40 LT TO 57.87 LT

BANKS AVE

2+00

TOWER AVE

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- BANKS TO TOWER	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:00 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF WISDOT/CADI

2

689+00

688+04

101+00

100+00

99+00

141+00

142+00

143+00

144+00

145+00

146+00

147+00

DECORATIVE BOLLARD (TYPICAL)

ORNAMENTAL FENCE
AND COLUMN
STA 144+25.93 TO STA 144+70.29, 51.18 RT
STA 144+70.29 TO STA 144+84.70, 64.05 RT
STA 99+35.98 TO STA 99+15.45, 37.37 LT

ORNAMENTAL FENCE
AND COLUMN
STA 99+17.51 TO STA 99+38.12 38.71 RT
STA 145+60.00 62.16 LT TO STA 145+69.71, 53.71 RT
STA 145+69.71 TO STA 146+03.26, 53.71 RT

PROTECT AND RESET PLAQUES

PROTECT EXISTING ARCH FEATURE

PROTECT EXISTING FREESTANDING WALLS

TREE 'B'

TOWER AVE

OGDEN AVE

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- TOWER TO OGDEN	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF

2

2

301+00

ONE-WAY

311+00

25'-0"

22'-8"

5'-8"

A/C

147+00

148+00

149+00

150+00

151+00

152+00

153+00

300+00

310+00

71 RT

ORNAMENTAL FENCE
AND COLUMN
STA 148+17.80 TO STA 144+51.76 53.37 RT
STA 144+51.76 53.37 RT TO STA 299+43.50, 38.49 LT
STA 299+43.50 TO STA 299+23.42, 38.49 LT

ORNAMENTAL FENCE
AND COLUMN
STA 153+02.90
TO STA 153+68.30
50.63 RT

299+00

JOHN AVE

ONE-WAY

309+00

HUGHITT AVE

NOTE: ANY EXISTING IRRIGATION LINES DAMAGED DURING CONSTRUCTION TO BE REPAIRED BY CONTRACTOR

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- OGDEN TO HUGHITT	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF

2

25'-0"

22'-8"

1'-3"

311+00

310+00

153+00

154+00

155+00

156+00

ORNAMENTAL FENCE
AND COLUMN
STA 153+02.90
TO STA 153+68.30
50.63 RT

HUGHITT AVE

309+00

ORNAMENTAL FENCE AND COLUMN
STA 328+82.27 TO STA 329+41.65 43.15 RT
STA 329+41.65 43.15 RT TO STA 157+02.11 50.65 RT
STA 157+02.11 TO STA 157+51.61 50.65 RT

331+00

330+00

157+00

158+00

HAMMOND AVE

DOUGLAS COUNTY ENTRY SIGN
STA 156+97.82 66.18 LT
TO STA 157+21.46 91.01 LT

HAMMOND AVE

329+00

2

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- HUGHITT TO HAMMOND	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1:40_XREF_XREF

2

ONE-WAY

351+00

BELKNAP STREET US 2

GRAND

371+00

ORNAMENTAL FENCE
AND COLUMN
STA 370+63.85 TO STA 370+85.79 49.92 RT
STA 370+63.85 49.92 RT TO STA 168+35.87 50.00 LT
STA 168+35.87 TO STA 168+58.80 50.00 LT

2

164+00

165+00

166+00

167+00

168+00

169+00

350+00

ORNAMENTAL FENCE
AND COLUMN
STA 166+98.49 TO STA 167+23.47 51.61 RT
STA 167+23.47 51.61 RT TO STA 359+36.48 35.90 LT
STA 359+36.48 TO STA 359+17.90 35.90 LT

ORNAMENTAL FENCE
AND COLUMN
STA 359+23.81 TO STA 359+36.83 42.41 RT
STA 359+36.83 42.41 RT TO STA 168+26.41 51.46 RT
STA 168+26.41 TO STA 168+45.95 51.46 RT

BAXTER AVE

349+00

348+00

LAMBORN AVE

359+00

358+00

100+00

101+00

LEGEND

OVERSTORY TREE

20 0 20 40

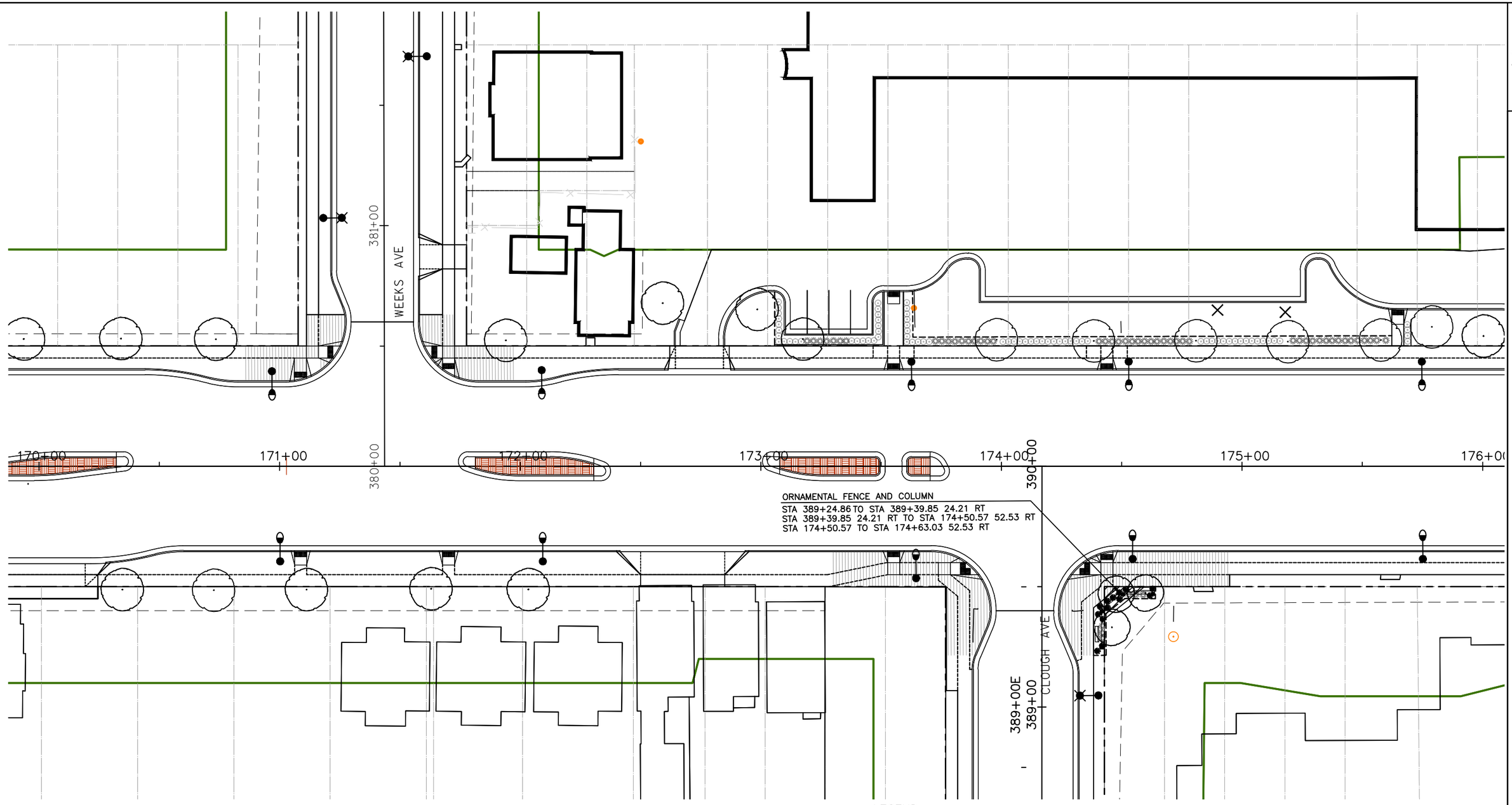
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- BAXTER TO GRAND	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF

WISDOT/CADI ET 42

2



PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- GRAND TO CLOUGH	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS-ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF

2

2

A/C

FLAG

ORNAMENTAL FENCE AND COLUMN
STA 178+22.66 TO STA 178+39.69 52.23 LT
STA 178+39.69 52.23 LT TO STA 400+60.40 37.35 LT
STA 400+60.40 TO STA 400+71.12 37.35 LT

FISHER AVE

ORNAMENTAL FENCE AND COLUMN
STA 400+63.74 TO STA 400+70.98 36.47 RT
STA 400+63.74 36.47 RT TO STA 179+31.03 52.45 LT
STA 179+31.03 TO STA 179+45.44 52.45 LT

ORNAMENTAL FENCE AND COLUMN
STA 181+48.65 TO STA 181+59.26 46.22 LT

176+00 177+00 178+00 179+00 180+00 181+00 182+00

401+00 400+00 400+00

ORNAMENTAL FENCE AND COLUMN
STA 178+29.44 46.19 RT TO STA 178+44.56 61.49 RT

ORNAMENTAL FENCE AND COLUMN
STA 178+91.55 61.29 RT TO STA 179+06.82 45.97 RT

399+00

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- CLOUGH TO CATLIN	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF

WISDOT/CADI

2

CYPRESS AVE

POPLAR AVE

MORTORELLI DRIVE

188+00 189+00 190+00 191+00 192+00 193+00

430+00 431+00 440+00 439+00 450+00 451+00

ORNAMENTAL FENCE AND COLUMN
STA 188+29.23 TO STA 188+60.65 50.41 RT
STA 188+60.65 50.41 RT TO STA 439+43.46 38.73 LT
STA 439+43.46 TO STA 439+28.43 38.73 LT

ORNAMENTAL FENCE AND COLUMN
STA 189+75.51 TO STA 189+60.65 50.91 RT
STA 189+60.65 50.91 RT TO STA 439+42.67 38.73 RT
STA 439+42.67 TO STA 439+31.10 37.89 RT

LEGEND

OVERSTORY TREE

20 0 20 40

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- BIRCH TO ERLANSON	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF

2

ORNAMENTAL FENCE AND COLUMN
STA 206+63.70 TO STA 207+60.70 48.26 RT

ENTRY COLUMN
STA 207+12.20
46.83 LT

ENTRY COLUMN
STA 207+62.20
46.83 LT

ENTRY COLUMN
STA 206+62.20
46.83 LT

SCREEN WALL WITH COLUMNS
ARC CENTER PT: STA 208+70.70 33.40 LT
STA 208+70.62 67.81 LT
TO STA 208+89.97 64.10 LT

SCREEN WALL WITH COLUMNS
ARC CENTER PT: STA 208+14.36 30.92 LT
STA 207+69.95 45.47 LT
TO STA 208+22.11 71.75 LT

SCREEN WALL WITH COLUMNS
ARC CENTER PT: STA 208+70.70 33.40 LT
STA 208+95.37 56.77 LT
TO STA 209+06.67 42.11 LT

SCREEN WALL WITH COLUMNS
ARC CENTER PT: STA 208+58.11 38.65 RT
STA 208+53.46 66.38 RT
TO STA 208+84.33 40.78 RT

ENTRY COLUMN
STA 206+70.00
50.95 RT

ENTRY COLUMN
STA 207+15.00
50.95 RT

ENTRY COLUMN
STA 207+60.00
50.95 RT

ORNAMENTAL FENCE AND COLUMN
STA 206+71.50 TO STA 207+58.50 51.68 RT

SCREEN WALL WITH COLUMNS
ARC CENTER PT: STA 207+87.84 46.44 RT
STA 207+66.04 47.00 RT
TO STA 207+88.38 68.35 RT

ONE-WAY

A HAYES CT

HILL AVE

205+00 206+00 207+00 208+00 209+00 210+00 211+00

501+35 501+00 500+00 499+00 498+00

509+28

EP: 510+00.00

BP: 509+27.52

LEGEND

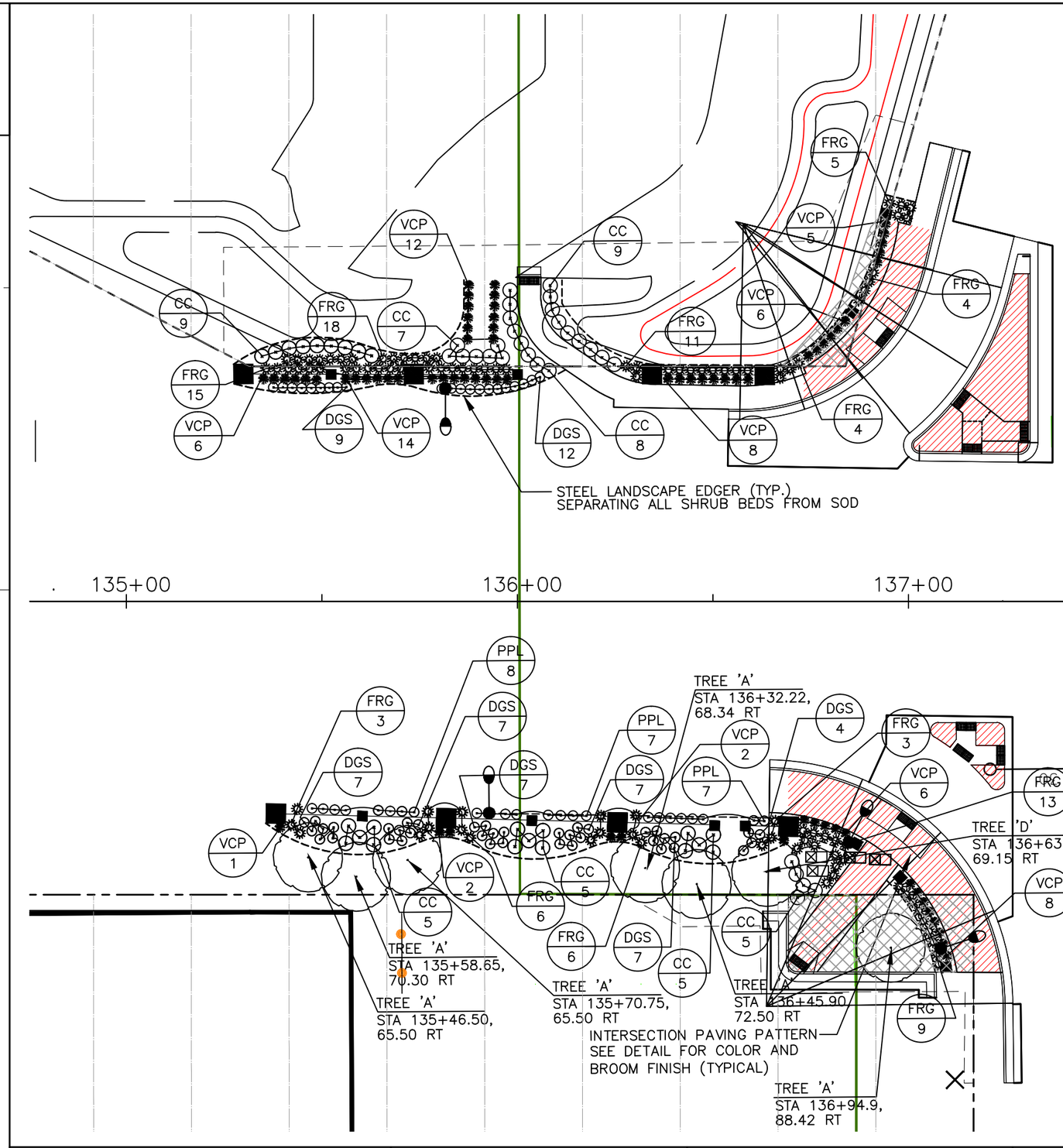
OVERSTORY TREE

20 0 20 40

SCALE IN FEET

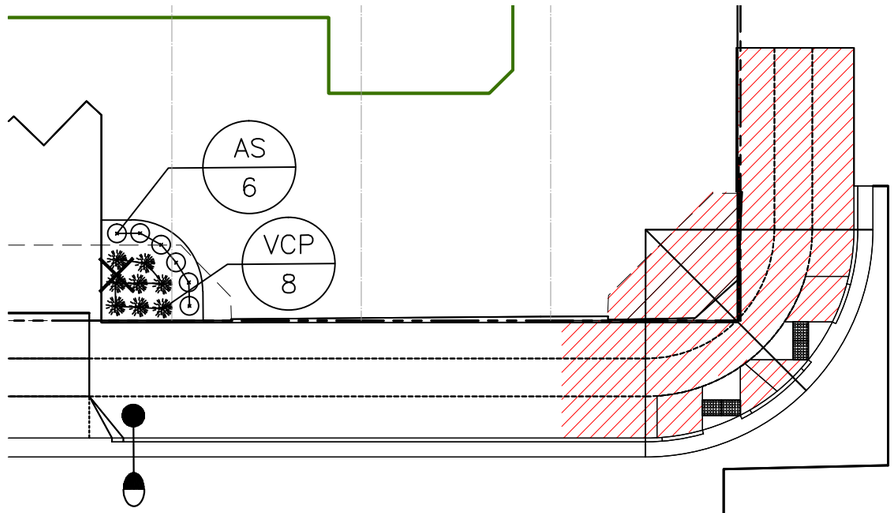
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	FENCE, COLUMN & SIGN PLAN- CEDAR TO HILL	SHEET _____ E

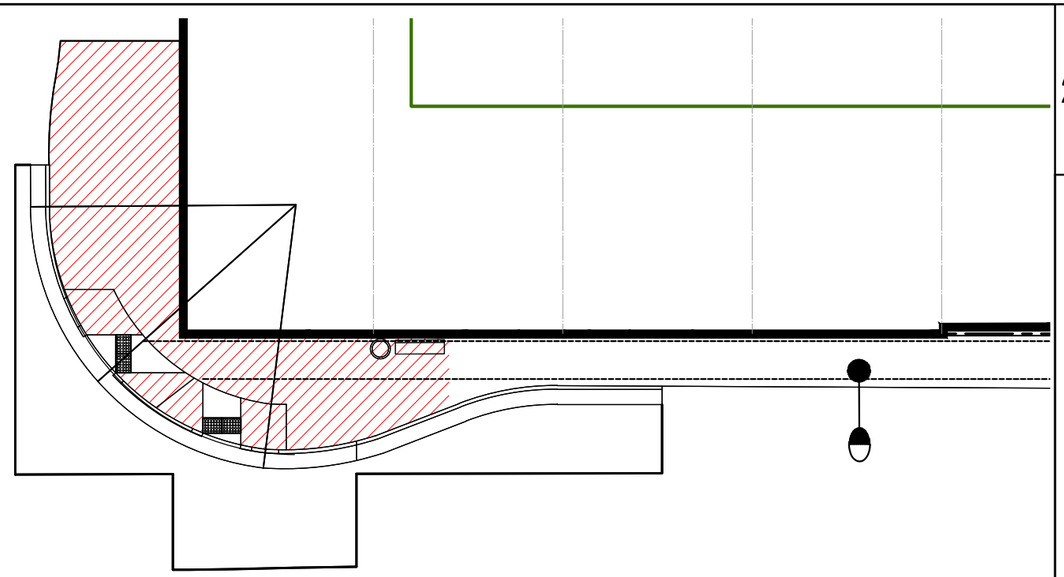
FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1:40_XREF_XREF



PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL BANKS INTERSECTION	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:01 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1IN:75 FT_XREF WISDOT/CADI





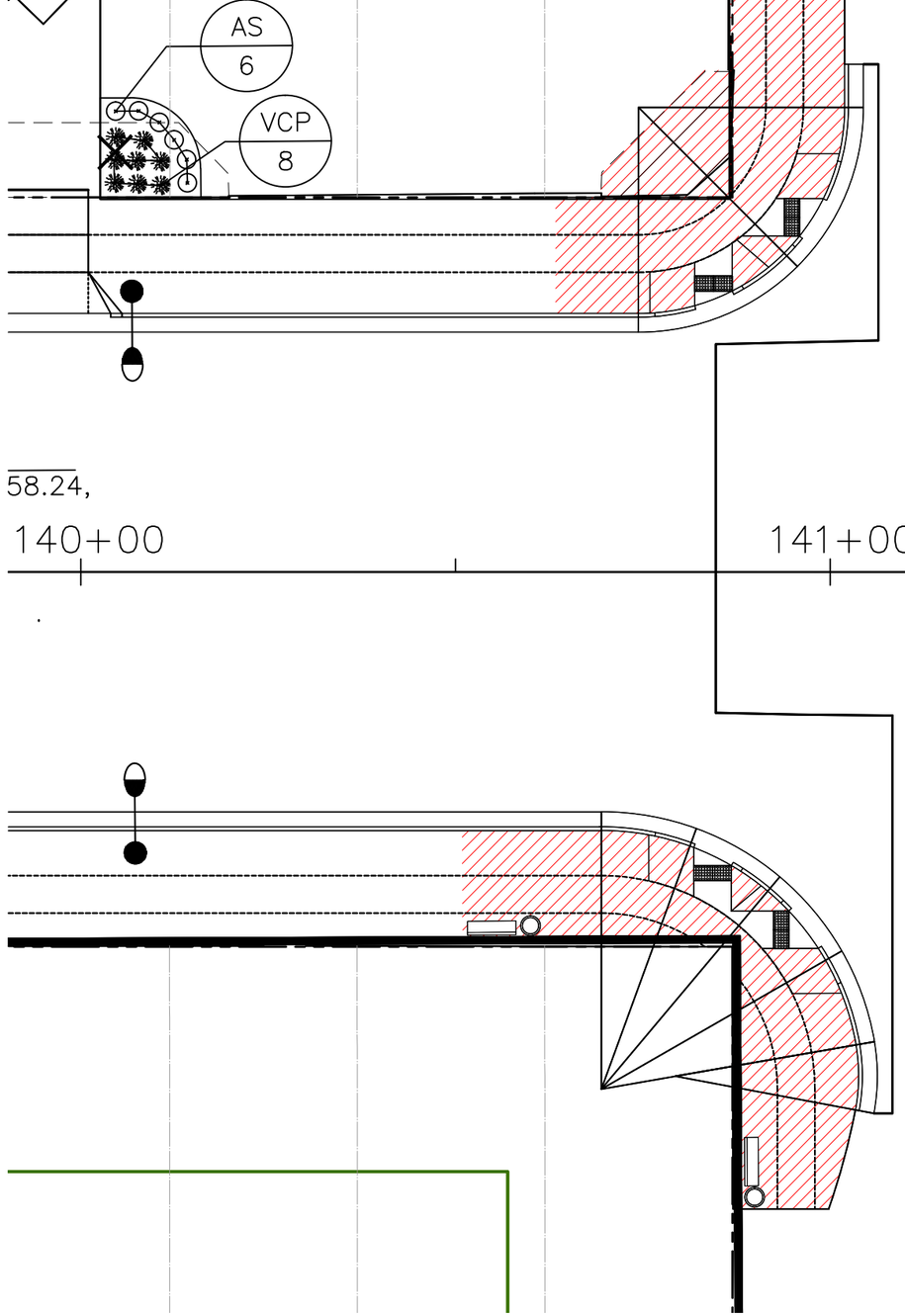
58.24,

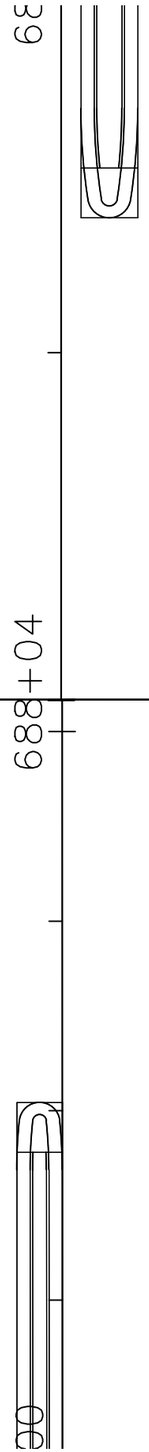
140+00

141+00

142+00

143







PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL TOWER INTERSECTION	SHEET ----- E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI ET 42

2

DGS 5

PPL 7

FRG 9

TREE 'A'
STA 144+79.49
58.85 LT

VCP 7

INTERSECTION
BUMP-OUT

VCP 12

DGS 11

FRG 9

STA 146+16.53
54.98 LT

TREE 'A'
STA 146+82.48,
53.13 LT

PPL 12

DGS 18

FRG 8

TREE 'A'
STA 145+94.64
54.03 LT

DECORAT
BOLLARD
(TYPICAL

144+00

145+00

146+00

100

TREE 'A'
STA 144+39.00,
57.75 RT

TREE 'B'
STA 144+61.89,
57.75 RT

BENCH AND
TRASH
RECEPTACLE

AS 10

3+94.43,
RT

DGS 11

VCP 16

VCP 9

TREE 'B'
STA 144+74.10
63.03 RT

TREE 'B'
STA 145+60.31,
72.07 RT

TREE 'B'
STA 144+77.66
75.15 RT

VCP 13

FRG 15

DGS 9

INTERSECTION PAVING PATTERN
SEE DETAIL FOR COLOR AND

FRG 12

VCP 4

VCP

BENCH AND TRASH
RECEPTACLE, TYP

VCP 2

PPL 12

VCP 9

PPL 12

STEEL EDGER
(TYPICAL)

FRG 3

VCP 7

FRG 6

TREE 'B'
STA 145+79.07
52.70 RT

TREE 'A'
STA 146+23.55
47.48 RT

TREE 'B'
STA 145+66.06
59.15 RT

FRG 2

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL OGDEN INTERSECTION	SHEET _____	E

2

TREE 'A'
STA 147+40.78
48.68 LT

FRG 8

DGS 16

VCP 6

PPL 16

FRG 6

—DECORATIVE BOLLARD (TYPICAL)

TREE 'A'
STA 147+76.09
48.68 LT

TREE 'A'
STA 148+12.58
48.68 LT

3

ONE-

INTERSECTION BUMP—OUT (TYPICAL)

148+00

149+00

150+00

300+00

BENCH AND TRASH RECEPTACLE

TREE 'B'
STA 148+41.61,
53.44 RT

-05.41

GP 11

FRG 2

VCP 3

VCP 9

FRG 9

VCP 2

TREE 'B'
STA 148+53.21,
53.14 RT

FRG 3

TREE 'B'
STA 148+54.07
66.48 RT

VCP 2

BENCH AND TRASH RECEPTACLE

00

JOHA AVE

TREE 'D'
STA 149+88.15
64.76 RT

TREE
STA
51.73

AS 11

VCP 10

DGS 11

FRG 10

AS 13

TREE 'B'
STA 149+30.17
52.87 RT

TREE 'B'
STA 149+30.17

2

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL JOHN INTERSECTION	SHEET -----	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI ET 42

2

2

INTERSECTION
BUMP–OUT (TYPICAL)

152+00

153+00

154+00

310+00

HUGHITT AVE

TREE 'C'
STA 151+43.83
51.73 RT

INTERSECTION
BUMP–OUT 'A' (TYPICAL)

PPL
11

FRG
10

TREE 'C'
STA 151+03.18
51.73 RT

DGS
11

FRG
10

AS
11

TREE 'C'
STA 151+79.15
51.73 RT

BENCH AND
TRASH
RECEPTACLE

TREE 'A'
STA 153+57.18
52.67 RT

PPL
9

GP
9

FRG
9

TREE 'A'
STA 153+33.88
52.67 RT

TREE 'A'
STA 153+08.78,
52.67 RT

10 0 10 20
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL HUGHITT INTERSECTION	SHEET -----	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI ET 42

FRG 6
PPL 6
SCS 1
SCS 1
CC 4
SCS 1
PPL 6
BFJ 8
BFJ 7
FRG 3
DNS 5
DNS 12
CC 11
TREE 'A'
STA 154+79.96
54.84 LT
INTERSECTION
BUMP–OUT 'B' (TYPICAL)
331
TREE 'H'
STA 156+96.12,
79.11 LT
BFJ 5
AS 10
BFJ 18
TREE 'G'
STA 157+76.33,
56.55 LT
TREE 'H'
STA 157+25.85
59.95 LT
155+00
156+00
330+00
157+00
15
TREE 'B'
STA 157+09.27
52.00 RT
VCP 6
TREE 'B'
STA 156+95.77
56.94 RT
BENCH AND TRASH RECEPTACLE
VCP 6
BENCH AND TRASH RECEPTACLE
VCP 4
FRG 9
PPL 9
TREE 'B'
STA 329+29.64
TREE 'A'
STA 328+793.17
PPL 6
AMOND AVE
10 0 10 20
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL HAMMOND INTERSECTION	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1" = 20'-XREF_XREF WISDOT/CADI ET 42

2

'H'
158+64.26
5 LT

TREE 'G'
STA 159+02.42
59.95 LT

TREE 'G'
STA 159+41.08
59.95 LT

TREE 'H'
STA 159+88.32
59.95 LT

PPL 1

FRG 5

PPL 4

FRG 3

159+00

160+00

340+00

161+00

PPL 5

VCP 5

GP 5

PPL 6

VCP 6

PPL 5

FRG 50

-00

CUMMING AVE

PPL 9

FRG 3

AP 11

FRG

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL CUMMING INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI ET 42

2

TREE 'B'
STA 163+45.09
54.08 LT

BFJ
7

CC
12

PPL
14

BFJ
5

TREE 'D'
STA 162+50.00
55.68 LT

TREE 'C'
STA 162+82.68
55.68 LT

TREE 'D'
STA 163+07.10
55.68 LT

TREE 'B'
STA 163+28.83
54.08 LT

TREE 'B'
STA 163+61.74
54.08 LT

163+00

164+00

165+00

351+

350+00

ONE-WA

TREE 'D'
STA 164+56.84
52.48 LT

TREE 'D'
STA 164+99.00
52.48 LT

BUS

FRG
5

FRG
5

FRG
3

BUS

AXTER AVE

10 0 10 20

SCALE IN FEET

2

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL BAXTER INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF

WISDOT/CADI

2

PRESERVE & PROTECT EXISTING CRABAPPLE TREE

'D'
66+45.85
LT

BELKNAP STREET US 2

37

TREE 'B'
STA 168+25.73
69.46 LT

TREE 'B'
STA 168+33.28
61.04 LT

TREE 'B'
STA 168+43.00
54.40 LT

VCP
15

VCP
8

AS
6

FRG
20

TREE 'D'
STA 168+74.08
52.33 LT

TREE 'D'
STA 169+13.95
52.33 LT

TREE 'D'
STA 16
52.33 L

2

167+00

168+00

169+00

360+00

TREE 'A'
STA 166+67.09
49.67 RT

TREE 'B'
STA 167+06.70
52.06 RT

TREE 'B'
STA 167+21.41
52.06 RT

-35.03

DGS
12

FRG
11

FRG
4

FRG
8

VCP
6

REE 'A'
TA 166+02.47
9.67 RT

TREE 'B'

FRG

TREE 'B'
STA 359+38.46
38.30 LT

TREE 'B'
STA 168+34.19
51.40 RT

TREE 'B'
STA 168+47.40
51.40 RT

TREE 'B'
STA 359+43.59
48.29 RT

TREE 'C'
STA 168+74.78
51.40 RT

VCP
6

FRG
6

AS
11

FRG
14

FRG
6

TREE 'B'
STA 359+31.43
43.05 RT

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL GRAND/LAMBORN INTERSECTION	SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI

2

2

381+00

WEEKS AVE

PPL
12

TREE 'D'
STA 172
65.02 L

TREE 'D'
STA 172+59.
67.70 LT

TREE 'C'
STA 171+93.85
52.33 LT

TREE 'D'
STA 170+34.08
52.33 LT

TREE 'D'
STA 170+73.51
52.33 LT

170+00

171+00

380+00

172+00

173

TREE 'B'
STA 171+62.69
50.70 RT

TREE 'B'
STA 172+03.08
51.34 RT

32

TREE 'B'

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL WEEKS INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:02 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI ET 42

2

57.78 LT

PPL 12

LPS 4

STEEL EDGER (TYPICAL)

TREE 'D'
STA 172+98.42
65.02 LT

TREE 'D'
STA 172+59.17
67.70 LT

FRG 7

TREE 'D'
STA 173+17.84
52.33 LT

PPL 12

PPL 12

FRG 10

AP 16

TREE 'A'
STA 173+98.00
52.33 LT

FRG 15

TREE 'A'
STA 174+38.17
52.33 LT

PPL 15

TREE 'A'
STA 174+81.00
52.33 LT

FRG 15

TREE 'A'
STA 175+19.15
52.33 LT

TREE
STA
52.3

TR
ST
52

173+00

174+00

175+00

390+00

TREE 'B'
STA 174+59.85
52.93 RT

FRG 3

VCP 2

TREE 'B'
STA 174+47.80
52.93 RT

VCP 9

FRG 3

VCP 2

BENCH AND
TRASH RECEPTACLE

STEEL EDGER

BENCH

TREE 'B'
STA 389+33.20
28.96 RT

00E

-00

CLOUGH AVE

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL CLOUGH INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI

2

2

VCP 4

STEEL EDGER (TYPICAL)

FRG 6

VCP 6

FISHER AVE

66.72 LT

TREE 'B'
STA 179+27.73
57.72 LT

VCP 2

TREE 'B'
STA 179+39.47
53.49 LT

FRG 5

VCP 3

FRG 8

AP 6

PPL 5

TREE 'A'
STA 180+
47.08 LT

7+04.77
_T

TREE 'E'
STA 177+34.69
52.33 LT

TREE 'E'
STA 177+65.72
52.33 LT

TREE 'E'
STA 177+97.25
52.33 LT

TREE 'E'
STA 178+26.73
52.33 LT

178+00

400+00

400+00

179+00

180+00

EE' 'E'
A 177+01.09
.93 RT

TREE 'E'
STA 177+43.47
57.21 RT

TREE 'E'
STA 177+84.37
57.21 RT

TREE 'E'
STA 178+23.07
48.58 RT

FRG 9

FRG 15

PPL 19

FRG 11

FRG 8

TREE 'D'
STA 399+28.75
26.01 LT

FRG 10

AS 15

TREE 'A'
STA 179+20.60
47.37 RT

FRG 13

TREE 'A'
STA 179+60.73
47.37 RT

TREE 'A'
STA 179+97.2
47.37 RT

DGS 14

TREE 'D'
STA 399+28.17
20.38 RT

TREE 'C'
STA 398+96.81
26.01 LT

400+00

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL FISHER INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ----------PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI

2

FRG 12

GP 6

PPL 7

VCP 6

FRG 5

FRG 4

CE AND COLUMN
STA 181+59.26 46.22 LT

31+00

182+00

TREE 'B'
STA 181+82.99
50.37 RT

AVE 10+00

183+00

UWS ENTRY SIGN
STA 182+88.52 72.51 RT
TO STA 183+16.93 48.54 RT

184+0

VCP 4

FRG 12

PPL 4

VCP 4

2

TREE 'A'
STA 181+62.70
47.37 RT

AS 12

DGS 12

UWS ENTRY SIGN
STA 181+88.63 47.34 RT
TO STA 182+15.81 71.71 RT

TREE 'B'
STA 181+91.23
60.33 RT

LPS 14

FRG 10

VCP 19

TREE 'A'
STA 181+22.73
47.37 RT

TREE 'B'
STA 182+00.00
70.18 RT

TREE 'B'
STA 182+13.00
77.79 RT

FRG 17

PROTECT UTILITY PULL BOX
DURING CONSTRUCTION

LPS 20

AVE 09+00

LPS 14

FRG 16

AS 9

TREE 'B'
STA 183+20.51
51.25 RT

LPS 21

TREE 'B'
STA 183+12.39
61.32 RT

TREE 'B'
STA 183+03.20
69.32 RT

TREE 'B'
STA 182+92.76
77.49 RT

VCP 18

FRG 13

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL CATLIN INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF

WISDOT/CADI

2

2

BIRCH AVE

421+00

420+00

185+00

186+00

187+00

DGS 6

VCP 5

FRG 5

VCP 6

PPL 5

AP 4

VCP 7

VCP 4

FRG 5

PPL 4

FRG 29

FRG 14

AS 7

PPL 8

TREE 'D'
STA 184+63.85
48.89 LT

TREE 'D'
STA 185+02.35
48.89 LT

BUILDING
OVERHANG

STEE
EDGE

RELOCATED SI
STA 187+05.6
46.41 LT

TREE 'A'
STA 184+21.01
47.20 RT

TREE 'A'
STA 184+61.63
47.20 RT

TREE 'A'
STA 185+05.86
47.20 RT

TREE 'D'
STA 185+50.35
48.44 RT

TREE 'D'
STA 185+90.28
48.44 RT

TREE 'D'
STA 186+31.08
48.44 RT

TREE 'D'
STA 186+69.73
48.44 RT

TREE 'D'
STA 187+09.0
48.44 RT

TREE 'B'
STA 185+33.43

TREE 'F'
STA 185+71.06
63.73 RT

TREE 'F'
STA 187+21.85
63.73 RT

TREE 'F'

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL BIRCH INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF

2

CYPRESS AV

VCP 8 | FRG 11 | VCP 9 | FRG 7 | PPL 8 | FRG 5 | FRG 10 | VCP 7 | VCP 5

STEEL
EDGER

LPS 9 | VCP 12 | LPS 10 | VCP 6

TREE 'A'
STA 187+67.55
47.73 LT

TREE 'A'
STA 188+01.71
47.73 LT

TREE 'A'
STA 189+86.29
46.60 LT

EXISTING
SIGN

SIGN
05.60

188+00 | 430+00 | 189+00 | 440+00 | 190+00

TREE 'D'
STA 187+89.91
48.44 RT

TREE 'D'
STA 188+28.45
48.44 RT

TREE 'B'
STA 188+56.41
55.37 RT

TREE 'B'
STA 188+69.90
59.33 RT

TREE 'B'
STA 188+72.45
72.28 RT

TREE 'B'
STA 189+72.63
53.00 RT

TREE 'B'
STA 439+32.20
40.02 RT

09.02

FRG 22 | FRG 18

TREE 'B'
STA 188+20.71

TREE 'B'
STA 188+38.30

+00 | ORELLI DRIVE

VCP 5 | PPL 6 | VCP

10 0 10 20
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL MORTORELLI/CYPRESS INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF

WISDOT/CADI

AS 10
DGS 3
CC 3
FRG 5
FRG 5
RELOCATED FLAGPOLE
VCP 7
CC 4
CC 4
FRG 10
RG 10
VCP 5
DGS 3
VCP 6
EXISTING SIGN
PPL 6
VCP 6
6.29
TREE 'A'
STA 190+16.48
46.60 LT
TREE 'A'
STA 190+62.10
46.60 LT
RELOCATED LIGHTHOUSE (TYPICAL)
451+00
POPLAR AVE
AP 11
AS 11
FRG 11
TREE 'A'
STA 193+08.46
47.13 LT
TREE 'A'
STA 192+43.66
47.13 LT
191+00
450+00
192+00
193+00
LT
FRG 6
VCP 4
VCP 8
FRG 6
VCP 8
10 0 10 20
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL POPLAR INTERSECTION	SHEET -----	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI

2

461+00E
461+00

PINE AVE

AS
7

FRG
18

PPL
14

AS
8

CC
5

PPL
7

VCP
7

VCP
7

VCP
6

VCP
7

FRG
5

VCP
5

FRG
4

TREE 'A'
STA 197+52.80
48.61 LT

TREE 'A'
STA 197+78.50
48.61 LT

TREE 'D'
STA 199+45.42
47.17 LT

197+00

198+00

460+00

199+00

VCP
11

VCP
11

TREE 'A'
STA 197+88.60
47.94 RT

DGS
12

PPL
8

TREE 'A'
STA 198+71.78
47.94 RT

PPL
8

PPL
12

TREE 'C'
STA 199+42.70
47.94 RT

FRG

10 0 10 20
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL PINE INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF

WISDOT/CADI

ET 42

2

VCP 7

PPL 7

FRG 3

TREE 'C'
STA 470+80.20
21.15 LT

471+

FRG 4

DGS 6

AS 6

PPL 6

FRG 12

VCP 6

VCP 6

TREE 'A'
STA 202+58.50
47.17 LT

VCP 6

+69.34

00+00

201+00

202+00

203+(

470+00

TREE 'C'
199+76.81
94 RT

TREE 'C'
STA 200+16.15
47.94 RT

TREE 'C'
STA 200+59.86
47.94 RT

PPL 12

AS 10

BFJ 31

VCP 12

ELM AVE

TREE 'A'
STA 202+14.07
50.00 RT

VCP 10

FRG 14

A HAYES CT

FRG 14

ONE-WAY

TREE '
STA 2(
50.00

10 0 10 20

SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL ELM INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF WISDOT/CADI ET 42

2

TREE 'C'
STA 481+08.56
21.04 RT

TREE 'B'
STA 205+71.24
65.55 LT

TREE
STA
65.55

PL
7

FRG
8

VCP
9

VCP
10

TREE 'A'
STA 203+58.72
47.17 LT

TREE 'A'
STA 204+00.00
47.17 LT

VCP
6

FRG
6

CC
9

CC
6

FRG
15

VCP
6

FRG
10

VCP
6

FRG
10

TREE 'A'
STA 205+50.93
47.39 LT

ENTRY
STA 2(
46.83

204+00

205+00

206+00

TREE 'A'
STA 203+36.13
50.00 RT

VCP
10

TREE 'A'
STA 203+93.51
50.00 RT

VCP
10

PPL
3

TREE 'B'
STA 204+46.27
53.54 RT

VCP
10

VCP
12

TREE 'B'
STA 204+55.32
59.08 RT

PPL
3

FRG
11

TREE 'B'
STA 205+18.24
53.54 RT

TREE 'A'
STA 205+72.76
52.50 RT

VCP
10

TRE
STA
52.

FRG
10

DGS
5

FRG
14

FRG
14

TREE 'B'
STA 204+69.48
61.02 RT

BENCH AND
TRASH RECEPTACLE

FRG
8

DGS
5

FRG
14

TREE 'B'
STA 205+05.62
59.08 RT

TREE 'B'
STA 204+92.37
61.02 RT

FI
1

ON

00

00E

00

00E

10 0 10 20
SCALE IN FEET

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL CEDAR INTERSECTION	SHEET _____ E

2

TREE 'B'
STA 207+83.14
68.35 LT

TREE 'B'
STA 207+73.62
60.09 LT

TREE 'B'
STA 207+67.77
49.42 LT

CC
15

FRG
7

FRG
21

TREE 'B'
STA 208+86.06
68.43 LT

TREE 'B'
STA 208+02.40
57.28 LT

TREE 'B'
STA 208+08.54
47.09 LT

TREE 'B'
STA 208+07.88
78.98 LT

TREE 'B'
STA 207+95.40
75.93 LT

FRG
8

TREE 'D'
STA 209+96.12
51.98 RT

TREE 'A'
STA 209+66.79
45.67 RT

TREE 'A'
STA 209+42.66
45.67 RT

FRG
18

VCP
5

PPL
5

VCP
5

DGS
6

VCP
6

AS
6

TREE 'A'
STA 206+83.53
50.00 LT

TREE 'A'
STA 207+23.21
50.00 LT

207+00

208+00

209+00

210

TREE 'B'
STA 208+87.64
44.68 RT

TREE 'B'
STA 208+82.06
56.94 RT

TREE 'E'
STA 208+98.62
58.30 RT

TREE 'B'
STA 208+75.21
65.39 RT

TREE 'E'
STA 208+86.33
78.41 RT

TREE 'B'
STA 208+65.80
70.36 RT

TREE 'E'

TREE 'A'
STA 206+79.35
48.76 RT

TREE 'A'
STA 207+29.96
49.04 RT

TREE 'B'
STA 207+60.37
54.45 RT

TREE 'B'
STA 207+64.94
62.36 RT

TREE 'B'
STA 208+55.29
72.17 RT

TREE 'B'
STA 207+72.87
69.32 RT

TREE 'B'
STA 207+83.98

AS
13

PPL
13

DGS
13

10 0 10 20
SCALE IN FEET

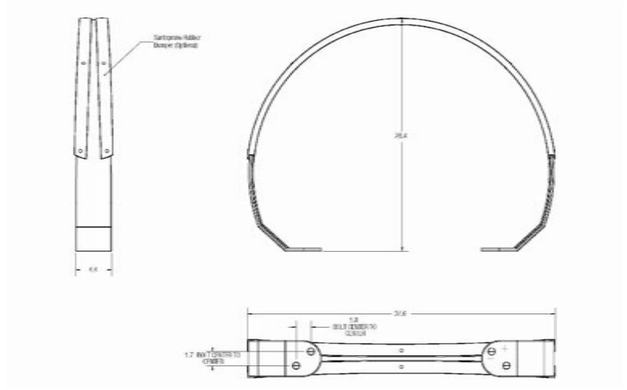
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAIL HILL INTERSECTION	SHEET _____	E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:03 PM PLOT BY : SAS-ASSOCIATES PLOT NAME : _____ PLOT SCALE : 1" = 20'_XREF_XREF



Fremont Bike Rack

BIKE RACKS ARE TO BE BLACK IN COLOR



BIKE RACKS

NOT TO SCALE



Rio 40 Gallon Trash Receptacle

TRASH RECEPTACLES ARE TO BE BLACK IN COLOR

TRASH RECEPTACLES

NOT TO SCALE

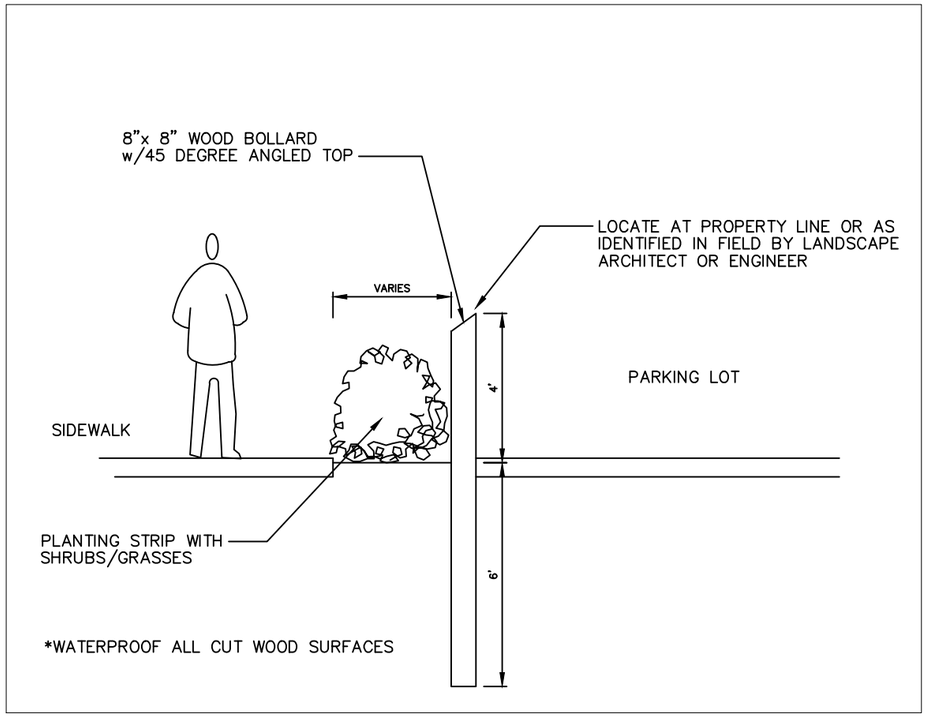
DuMor 165 Series Bench (6' Length)
MODEL #165-601

BENCHES ARE TO BE BLACK IN COLOR WITH
IPE WOOD SLATS



BENCHES

NOT TO SCALE

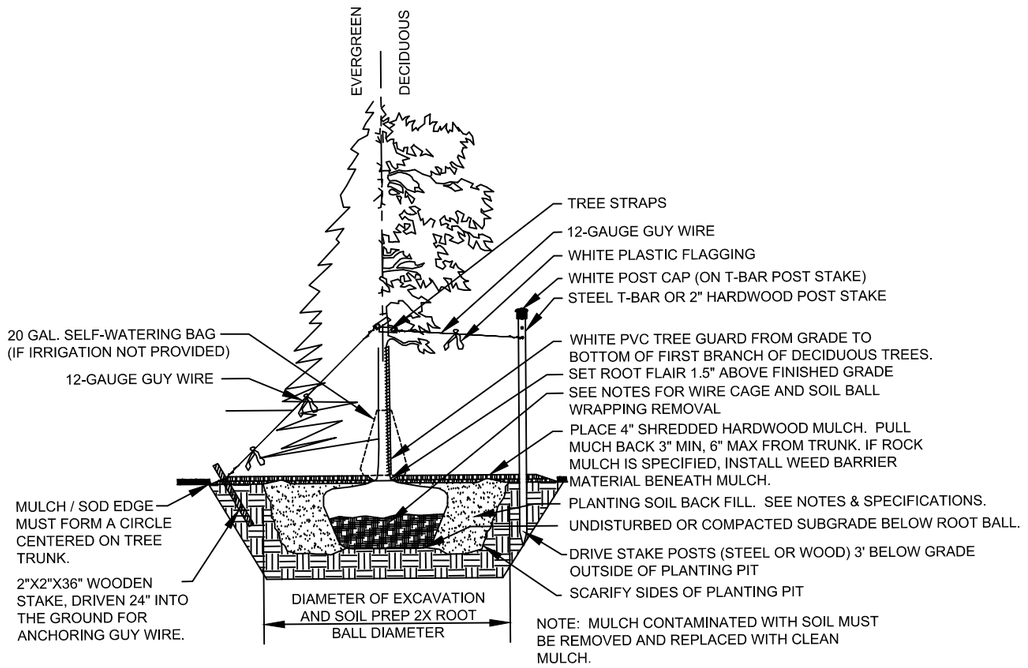


DECORATIVE BOLLARDS

NOT TO SCALE

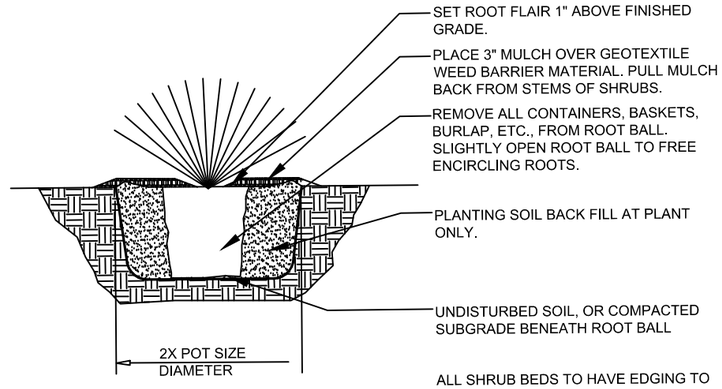
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETIALS	SHEET _____	E

2



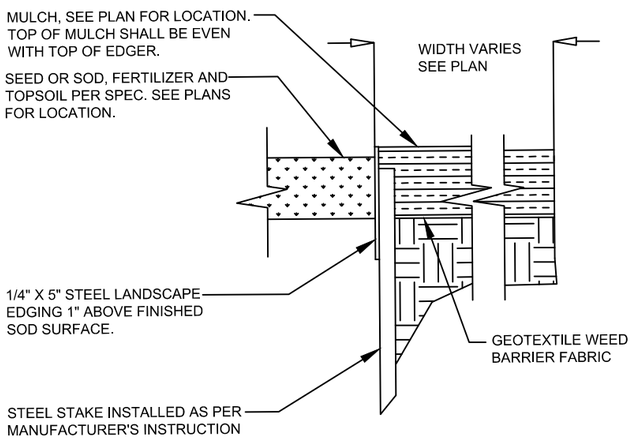
DECIDUOUS/EVERGREEN TREE DETAIL

NOT TO SCALE



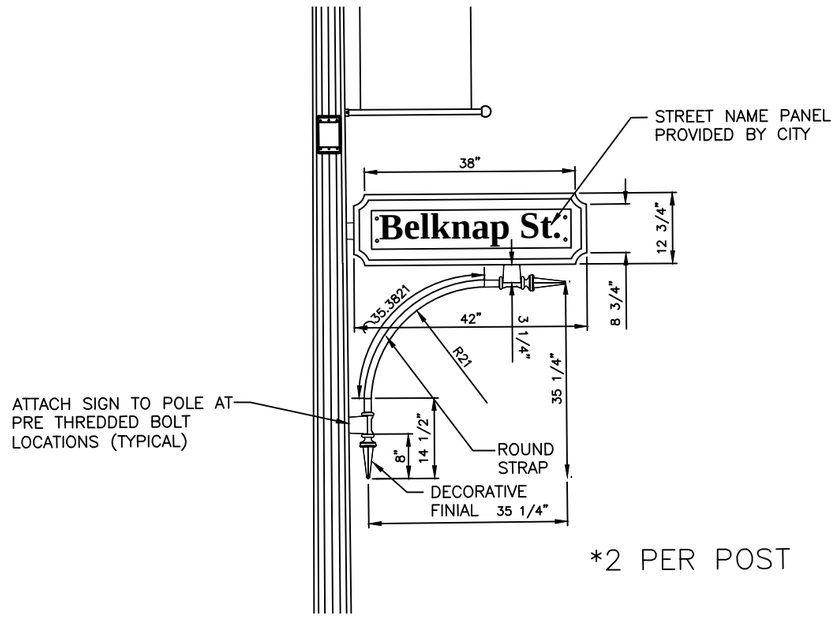
DECIDUOUS/EVERGREEN SHRUB DETAIL

NOT TO SCALE



STEEL EDGER DETAIL

NOT TO SCALE

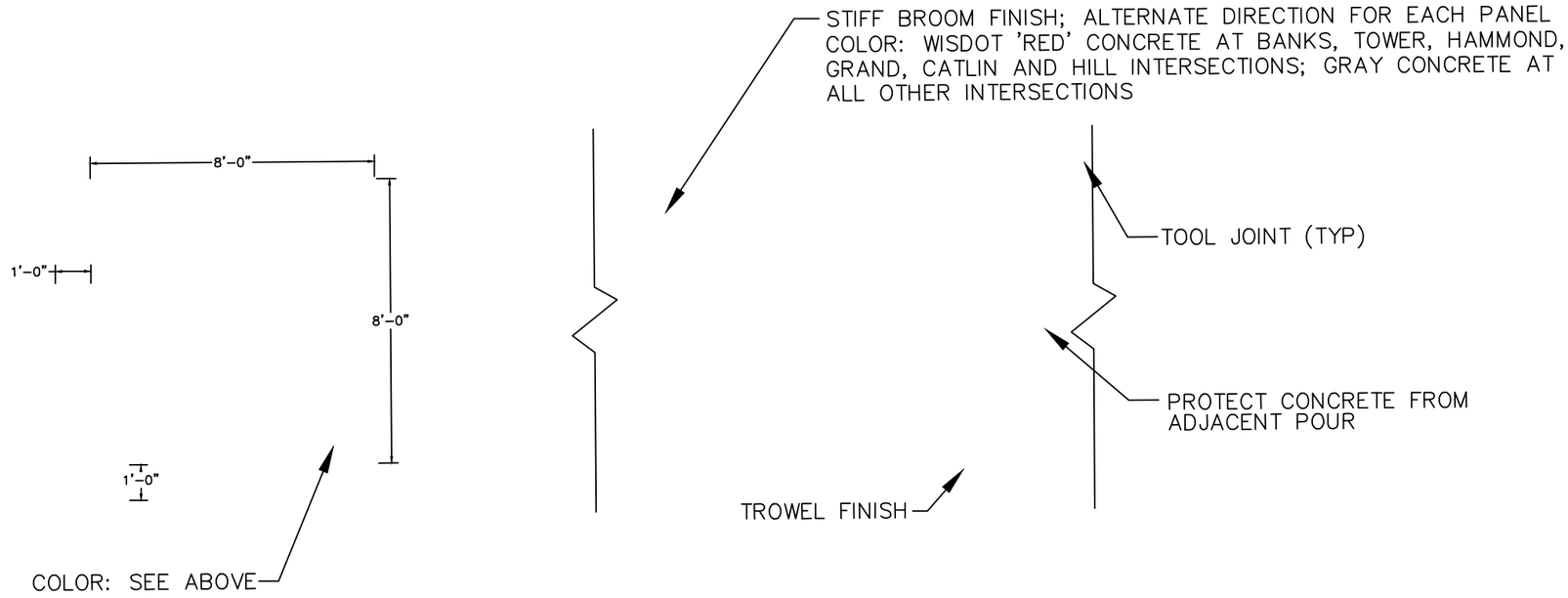


STREET SIGN DETAIL

NOT TO SCALE

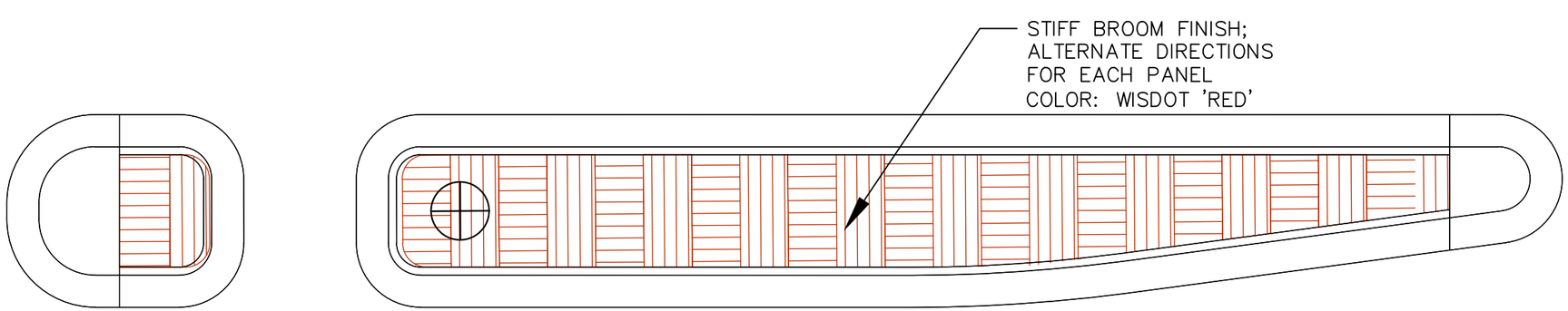
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E

2



CONCRETE INTERSECTION TREATMENT

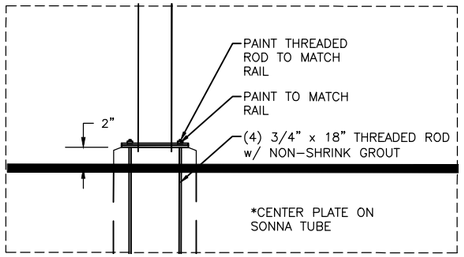
NOT TO SCALE



CONCRETE MEDIAN TREATMENT

NOT TO SCALE

2

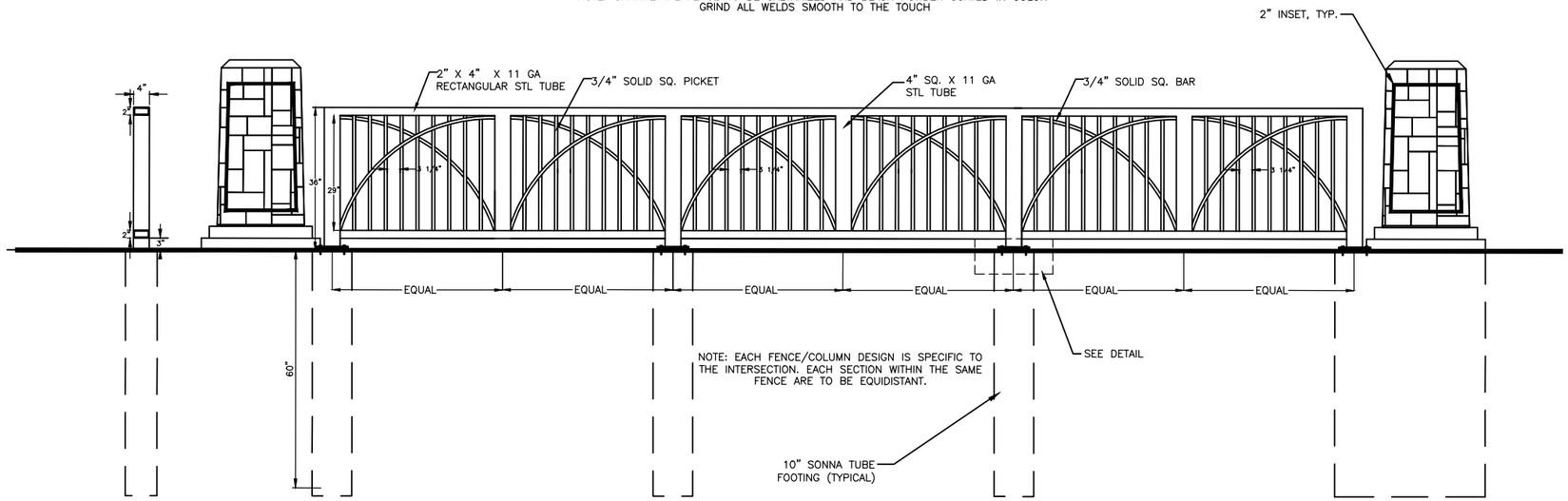


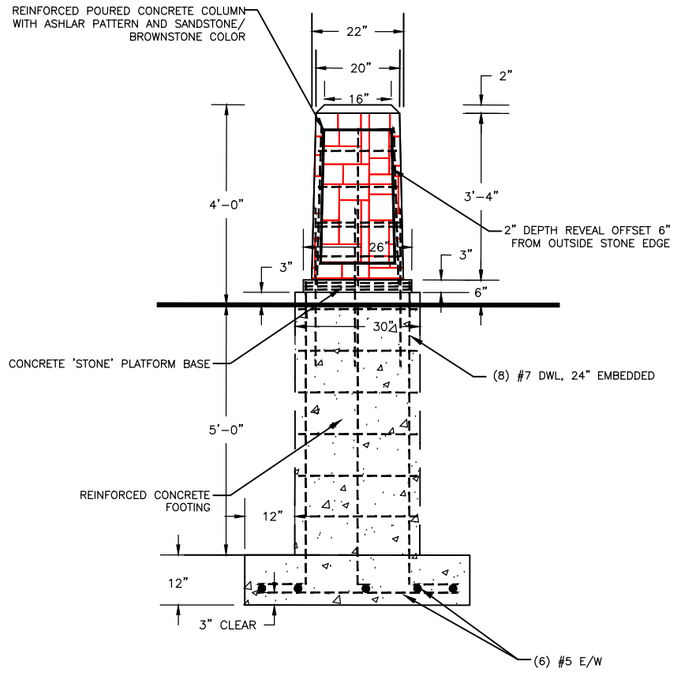
BOLT & PLATE DETAIL

COLUMNS MAY BE FORMED/ MANUFACTURED OFF SITE AND PLACED ON POURED FOUNDATIONS.

NOTE: CONTRACTOR TO PROVIDE ENGINEERING SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

NOTE: ORNAMENTAL FENCE TO BE GALVANIZED AND BLACK POWDER COATED IN COLOR GRIND ALL WELDS SMOOTH TO THE TOUCH





ORNAMENTAL FENCE AND COLUMN DETAIL

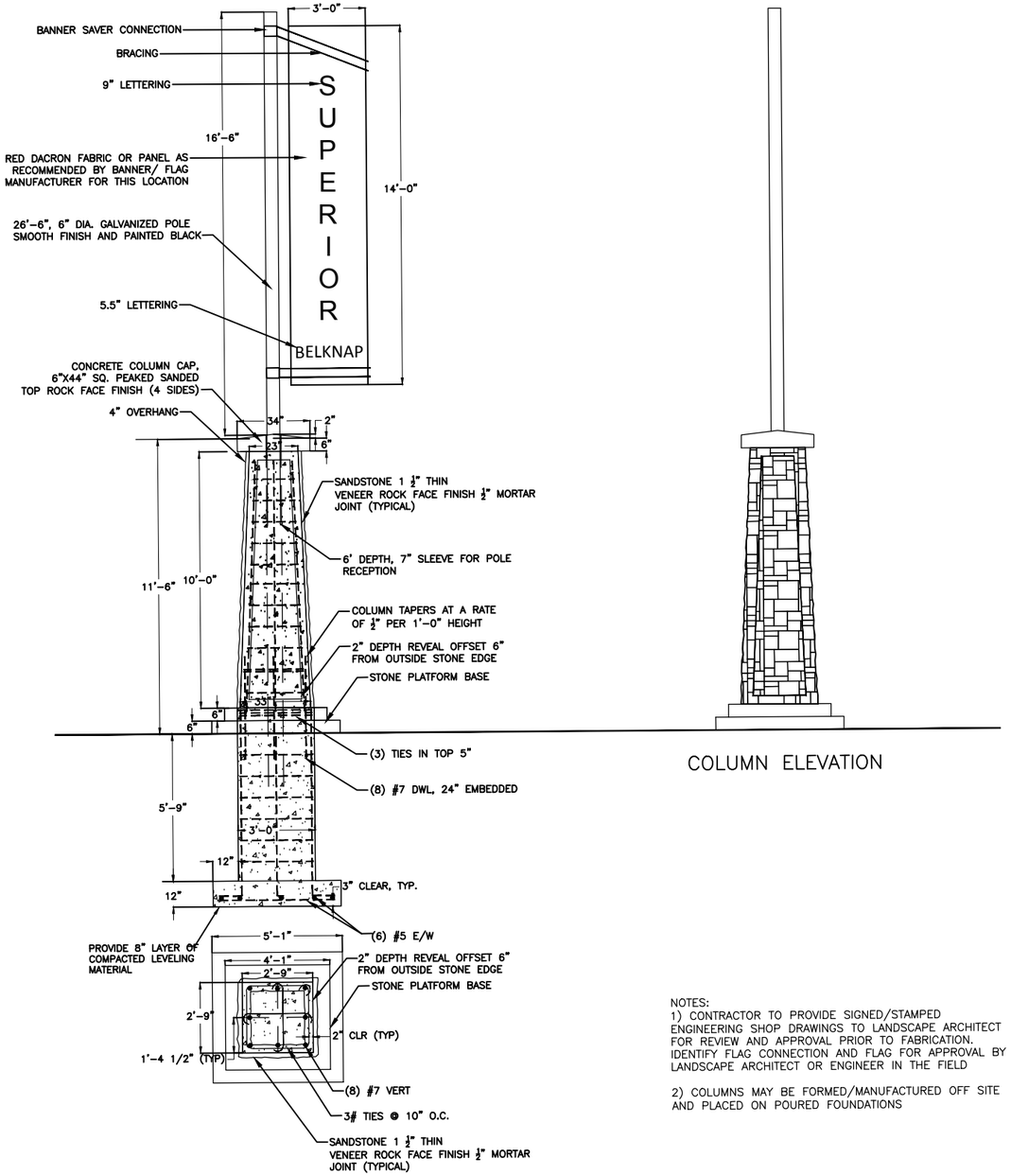
NOT TO SCALE



ORNAMENTAL FENCE AND COLUMN IMAGE

NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E



COLUMN ELEVATION

NOTES:
1) CONTRACTOR TO PROVIDE SIGNED/STAMPED ENGINEERING SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. IDENTIFY FLAG CONNECTION AND FLAG FOR APPROVAL BY LANDSCAPE ARCHITECT OR ENGINEER IN THE FIELD

2) COLUMNS MAY BE FORMED/MANUFACTURED OFF SITE AND PLACED ON POURED FOUNDATIONS

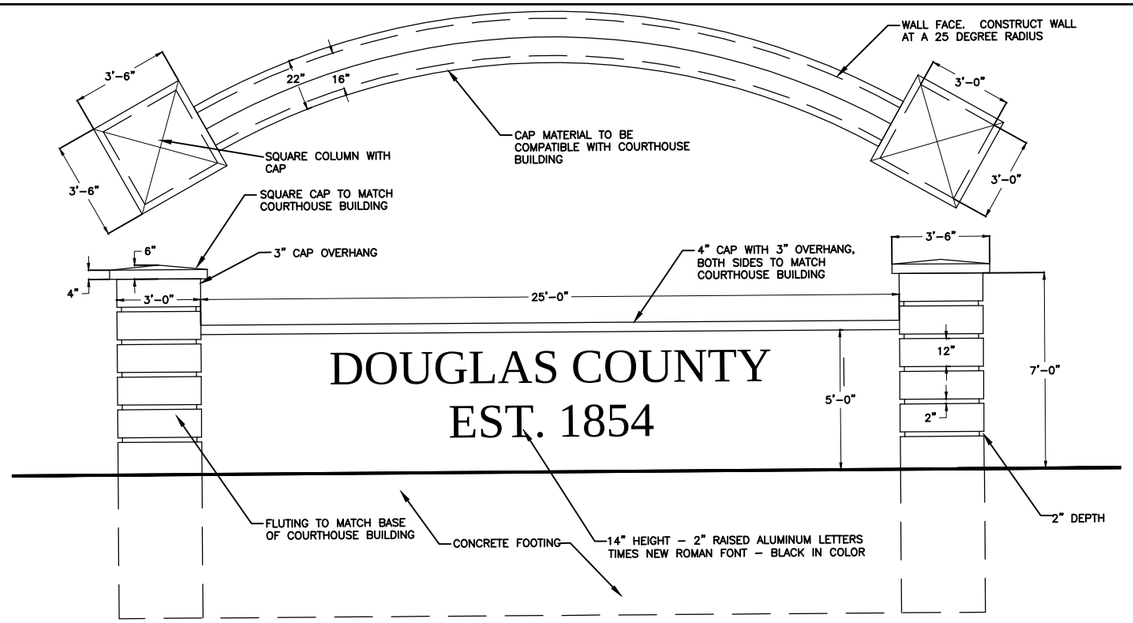
ENTRY COLUMN DETAIL

NOT TO SCALE



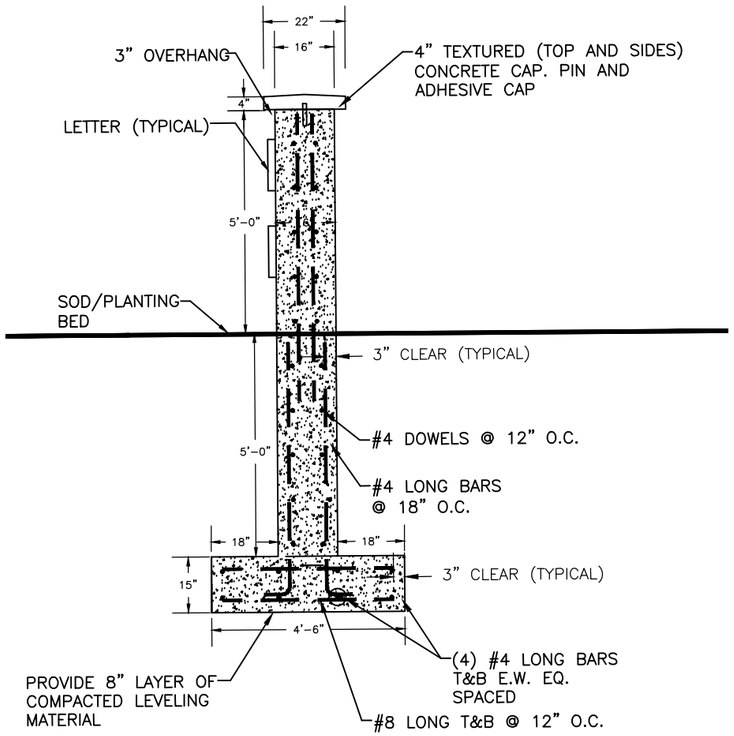
ENTRY COLUMN IMAGE

NOT TO SCALE



DOUGLAS COUNTY COURTHOUSE SIGN ELEVATION

NOT TO SCALE



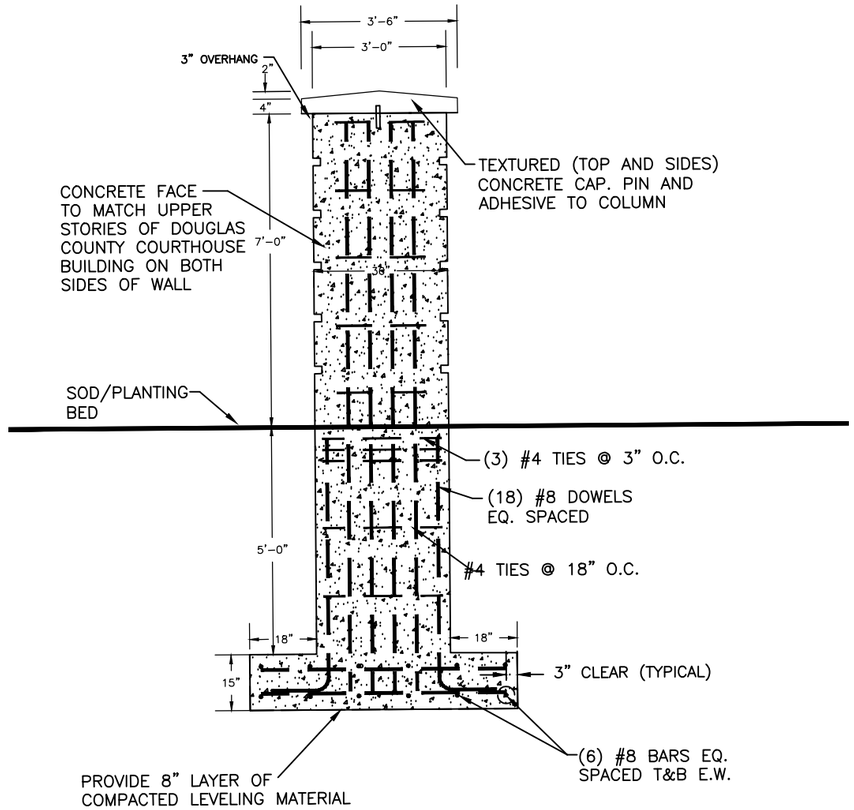
DOUGLAS COUNTY COURTHOUSE SIGN SECTION

NOT TO SCALE

NOTES:
1) CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

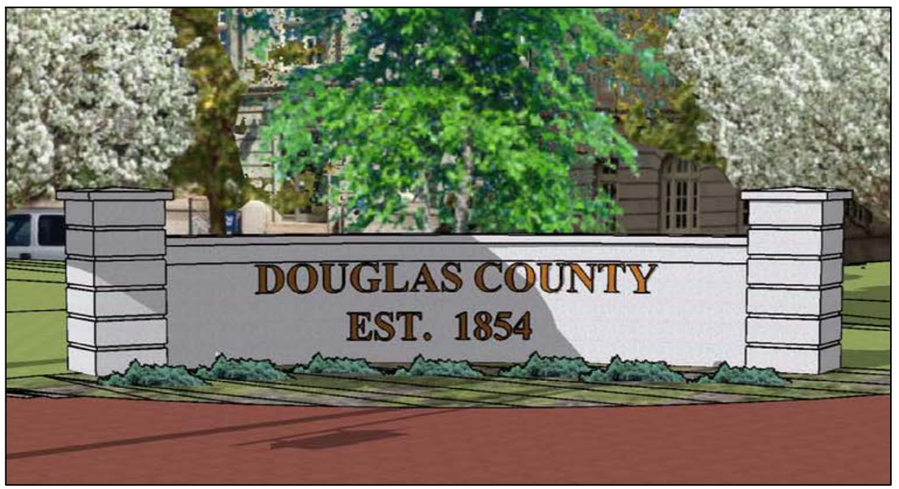
2) COLUMNS MAY BE FORMED/ MANUFACTURED OFF SITE AND PLACED IN POURED FOUNDATIONS

3) CONTRACTOR TO COORDINATE SIGN LIGHT LOCATIONS TO BEST LIGHT SIGN WALL



DOUGLAS COUNTY COURTHOUSE SIGN COLUMN SECTION

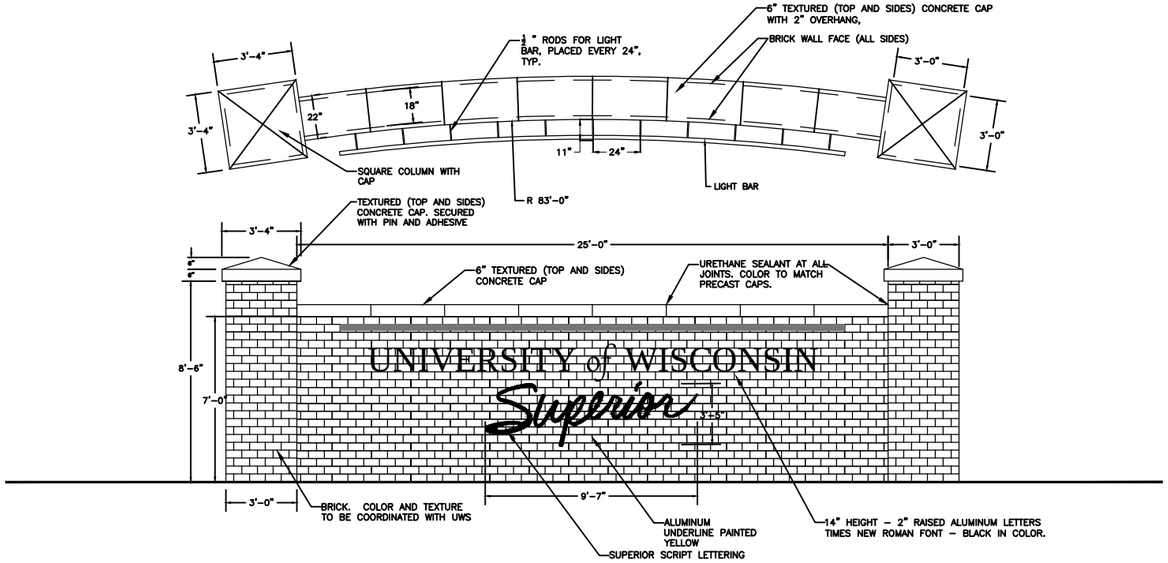
NOT TO SCALE



DOUGLAS COUNTY COURTHOUSE SIGN IMAGE

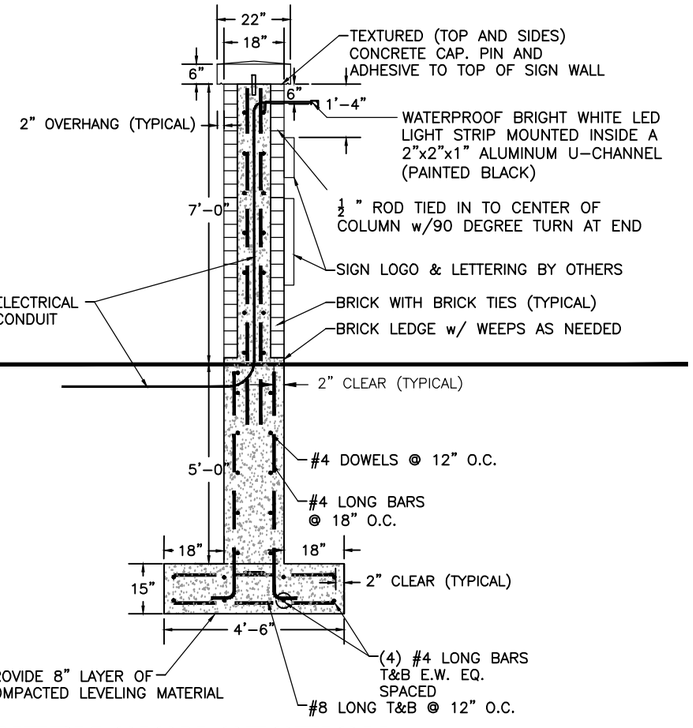
NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E



UWS ENTRY SIGN ELEVATION

NOT TO SCALE



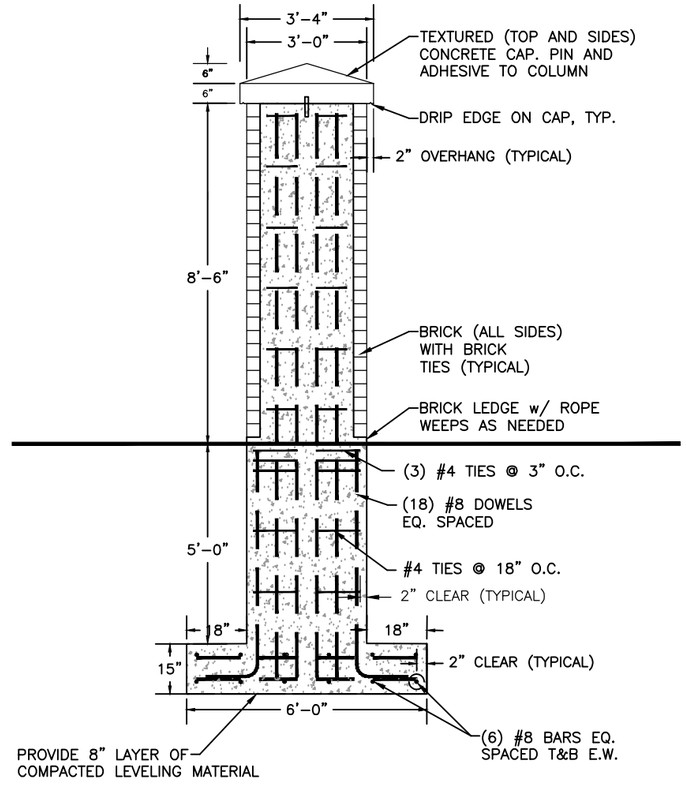
UWS ENTRY SIGN SECTION

NOT TO SCALE

NOTES:
1) CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

2) CONTRACTOR TO COORDINATE SIGN LIGHT LOCATIONS TO BEST LIGHT SIGN WALL

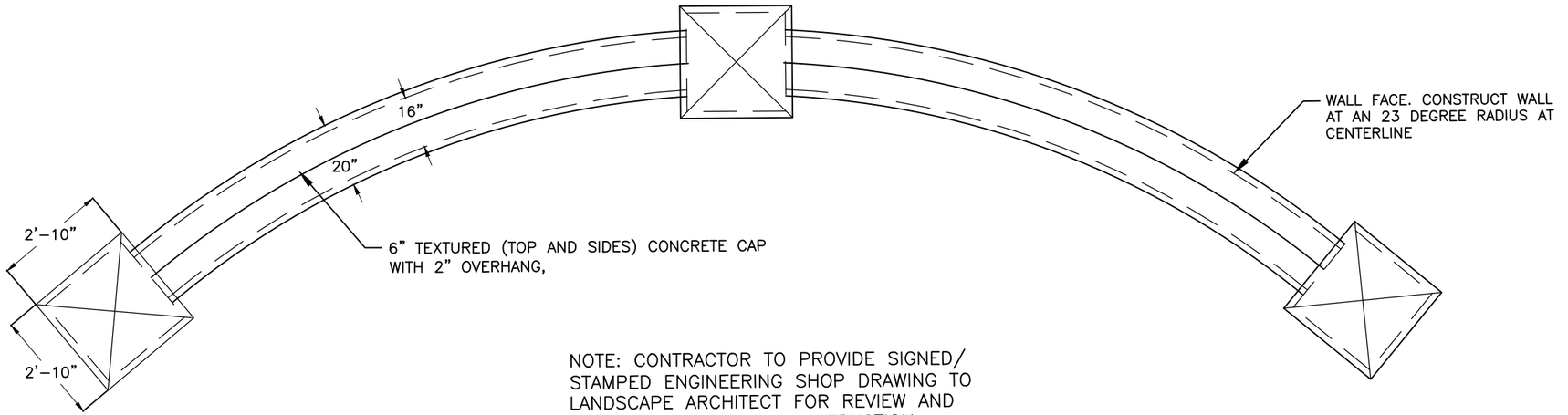
3) LOGO/ FONTS/COLORS CAN BE OBTAINED FROM UWS. ALL LETTERING AND UNDERLINE SHALL BE PAINTED POWDER-COATED ALUMINUM SIGNATURE LOGO



UWS ENTRY SIGN COLUMN SECTION

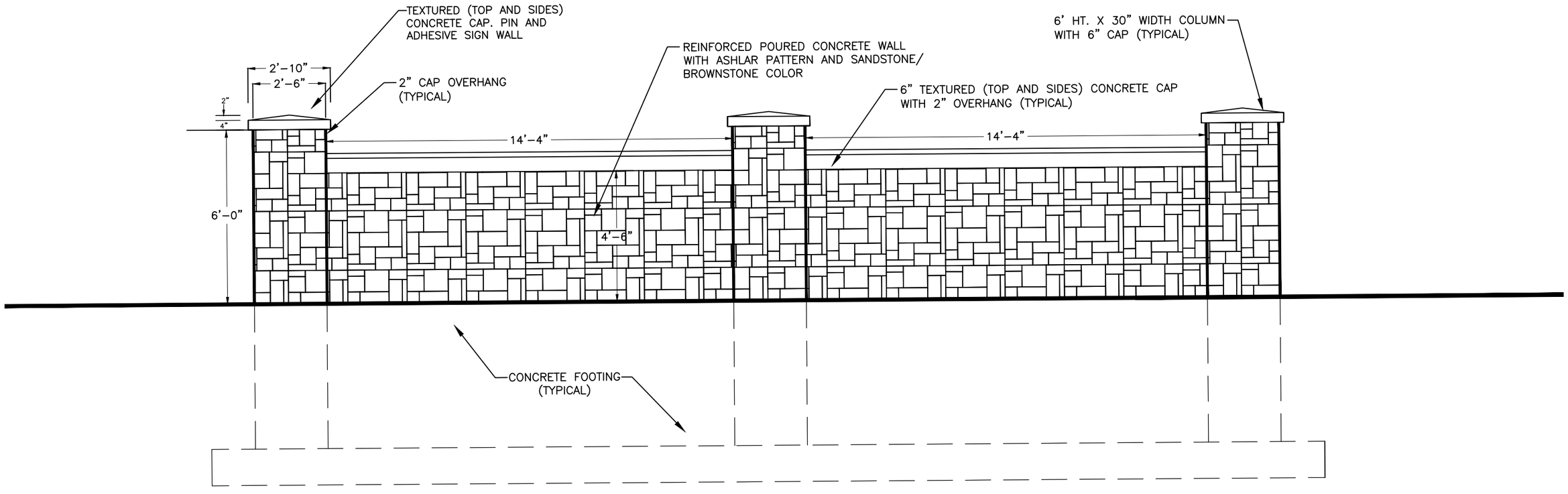
NOT TO SCALE

2



NOTE: CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

WALL ELEVATION SHOWN AS A STRAIGHT LINE FOR GRAPHIC PURPOSES

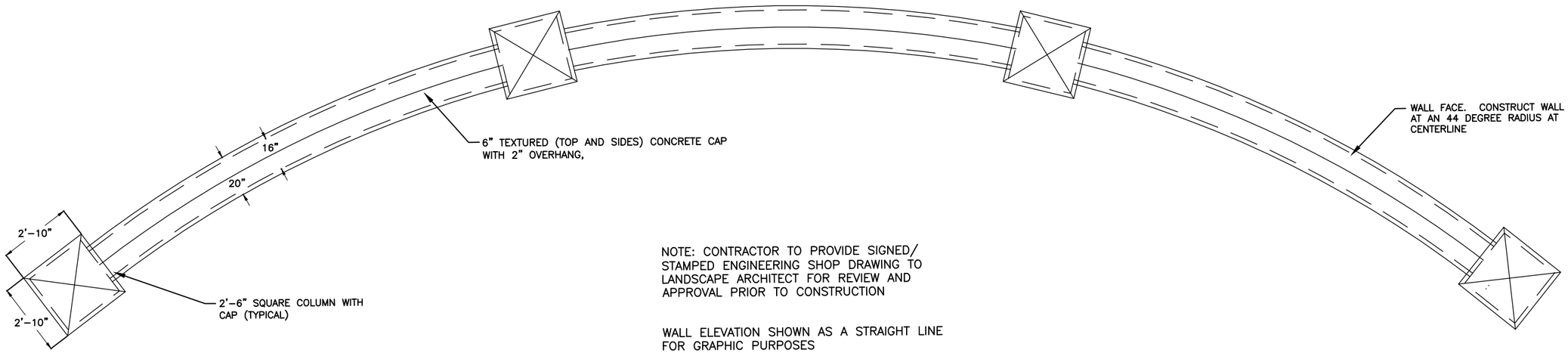


SW HILL AVENUE SCREEN WALL ELEVATION

NOT TO SCALE

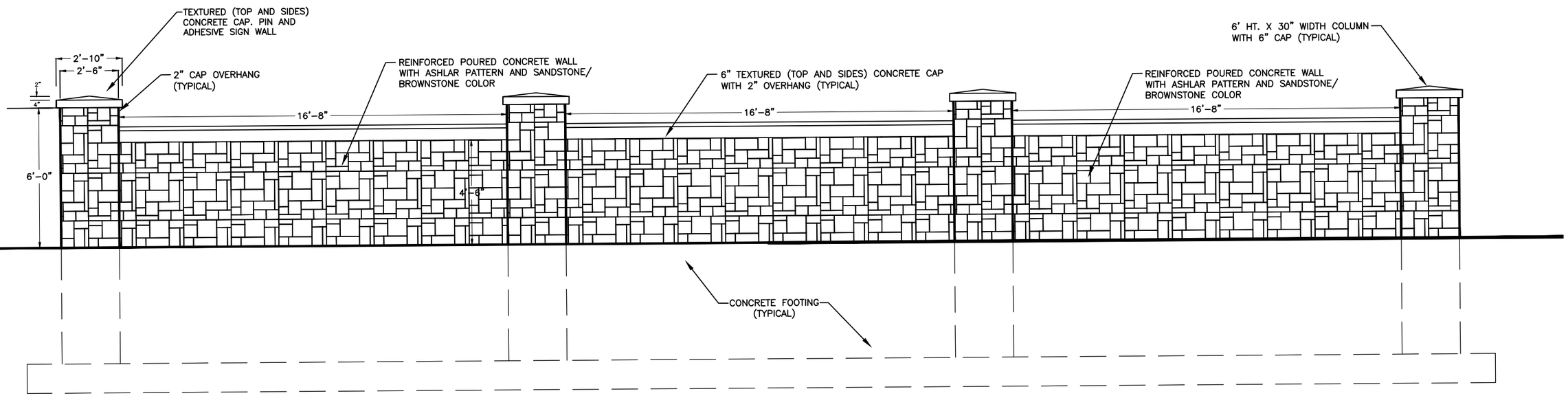
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E

2



NOTE: CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

WALL ELEVATION SHOWN AS A STRAIGHT LINE FOR GRAPHIC PURPOSES

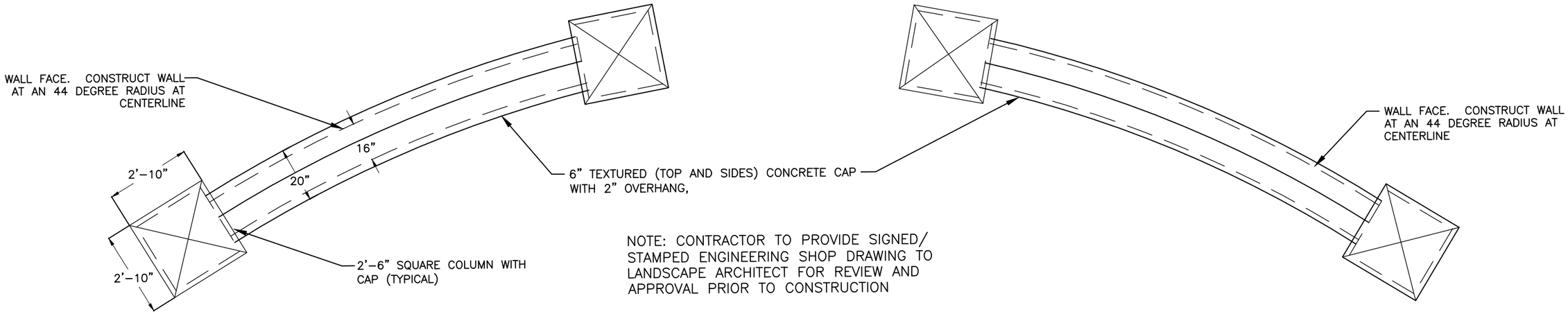


NW HILL AVENUE SCREEN WALL ELEVATION

NOT TO SCALE

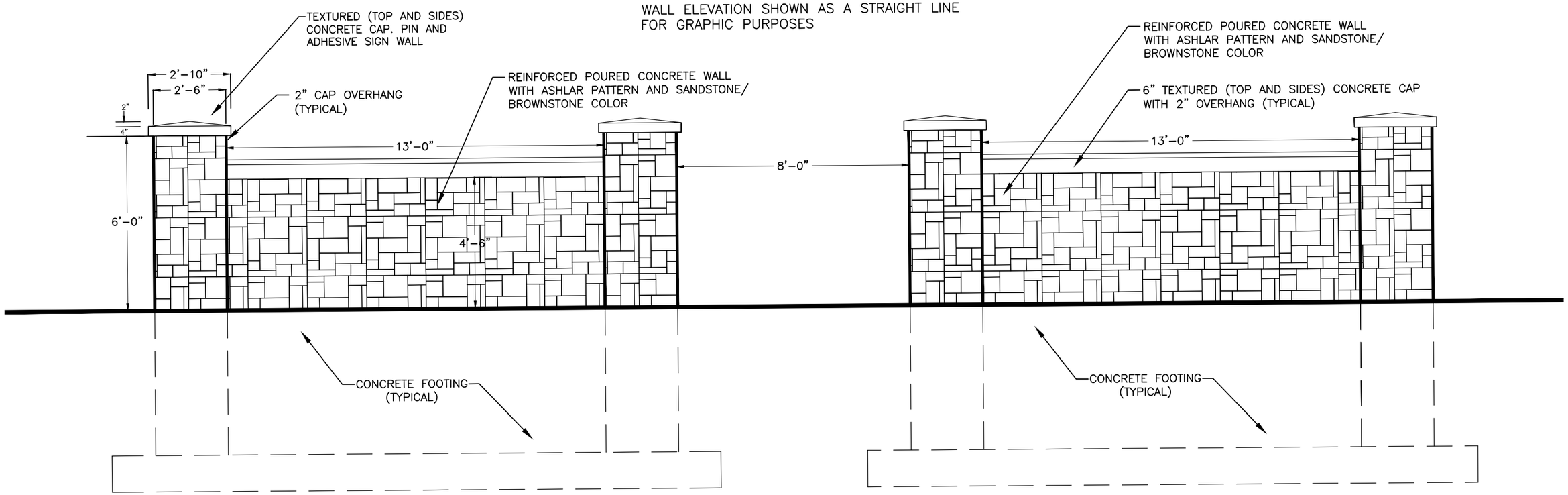
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E

2



NOTE: CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

WALL ELEVATION SHOWN AS A STRAIGHT LINE FOR GRAPHIC PURPOSES

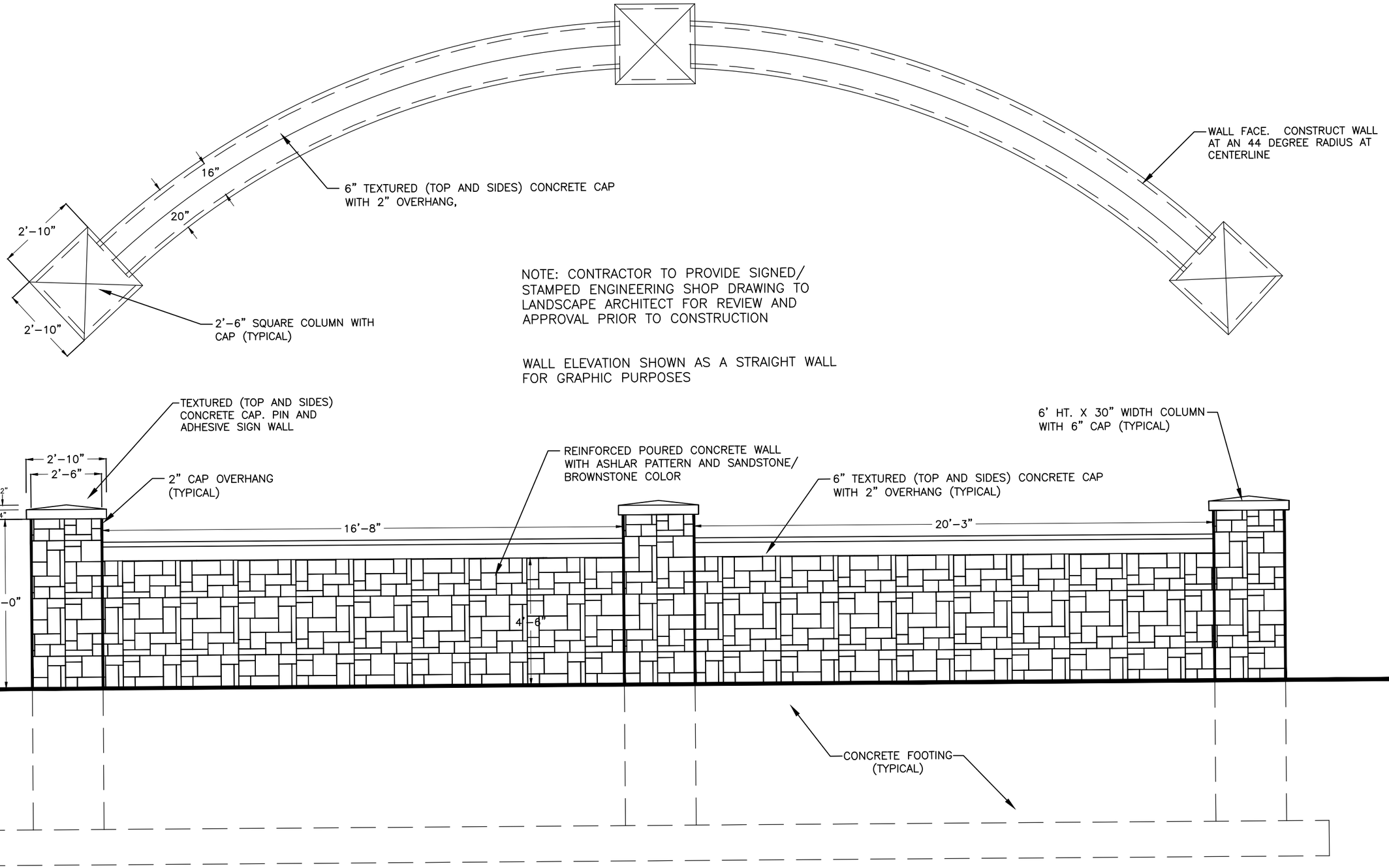


NE HILL AVENUE SCREEN WALL ELEVATION

NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E

2



NOTE: CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION

WALL ELEVATION SHOWN AS A STRAIGHT WALL FOR GRAPHIC PURPOSES

SE HILL AVENUE ENTRY SIGN ELEVATION

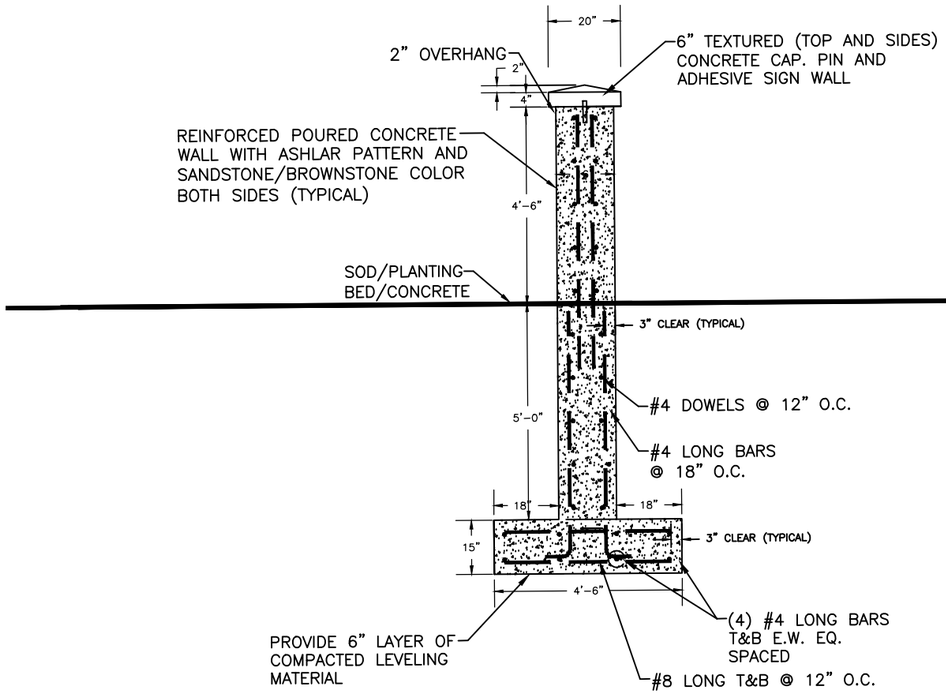
NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E

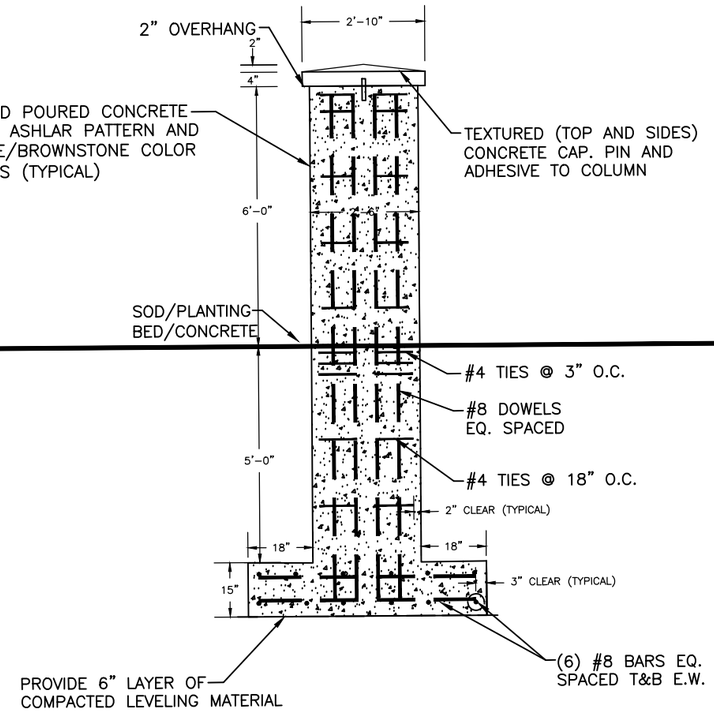
FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:05 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : 0.023837

2

NOTE: CONTRACTOR TO PROVIDE SIGNED/ STAMPED ENGINEERING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION



HILL AVENUE ENTRY
SIGN WALL SECTION

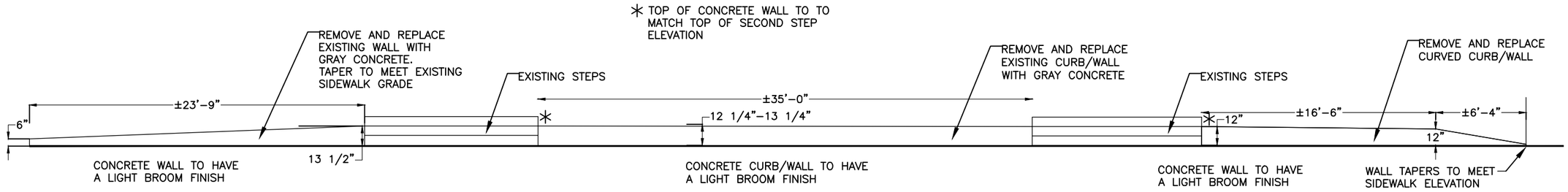


HILL AVENUE ENTRY
SIGN WALL - COLUMN SECTION

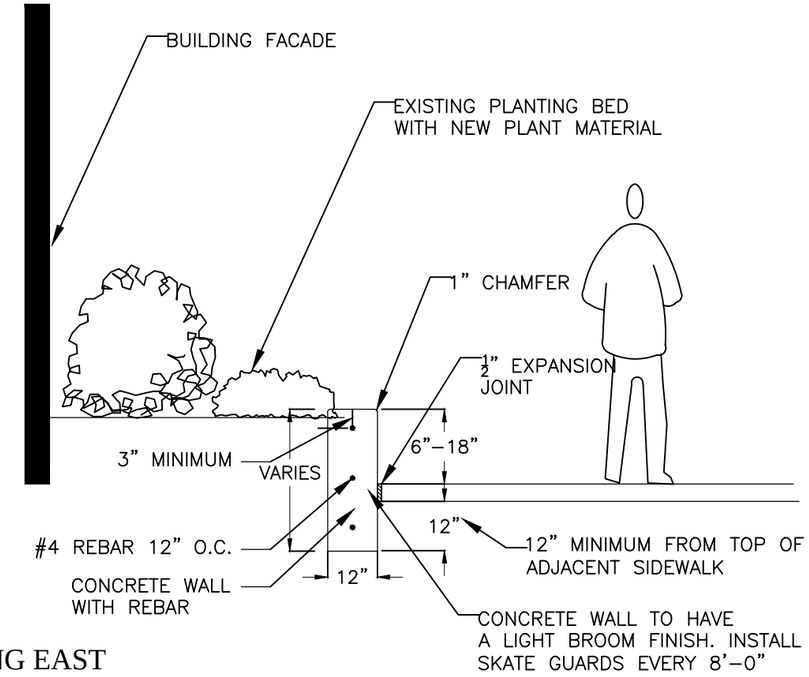
HILL AVENUE SCREEN WALL SECTIONS

NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE DETAILS	SHEET _____	E



CONCRETE WALL ELEVATION LOOKING NORTH



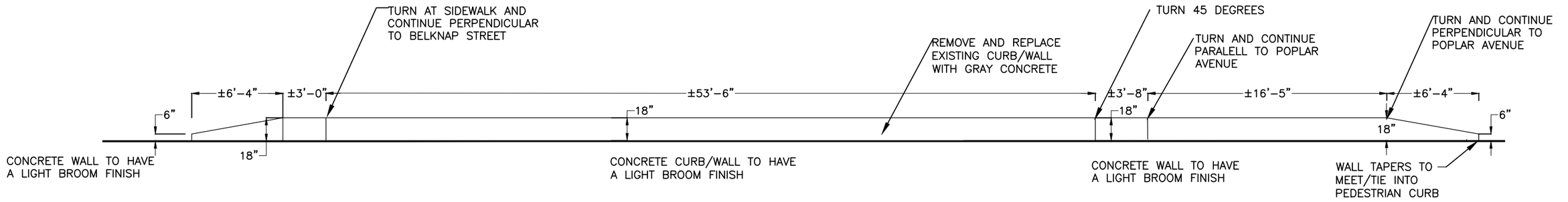
CONCRETE WALL DETAIL LOOKING EAST

HAMMOND AVENUE PRESBYTERIAN CHURCH CONCRETE WALL DETAILS

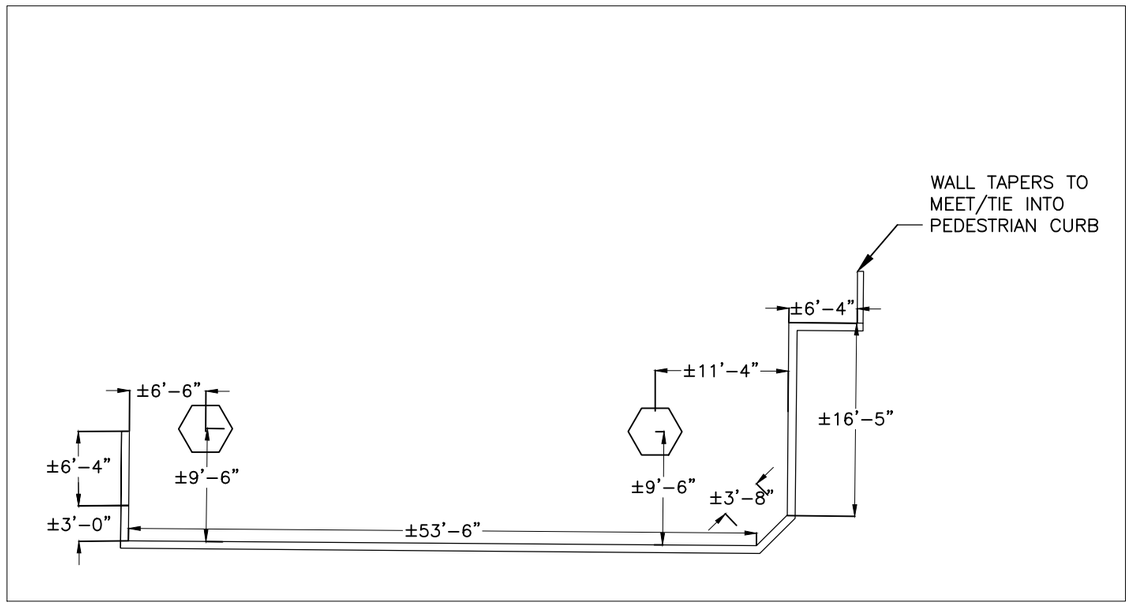
NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	PLAN: 1401 BELKNAP ST.: HAMMOND AVE PRESBYTERIAN CHURCH	SHEET _____	E

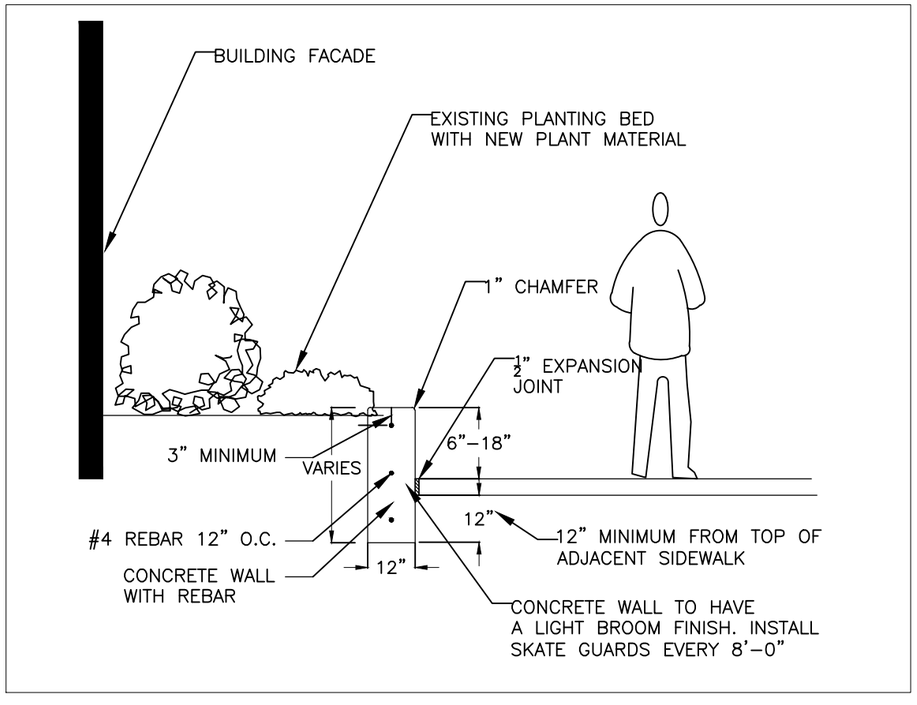
2



CONCRETE WALL ELEVATION LOOKING NORTH



CONCRETE WALL PLAN



CONCRETE WALL DETAIL LOOKING EAST

POPLAR AVENUE- JULIE'S RESTAURANT CONCRETE WALL DETAILS

NOT TO SCALE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	PLAN: 403 BELKNAP ST.: POPLAR AVENUE- JULIE'S RESTAURANT	SHEET _____	E

LANDSCAPE - NOTES

1) ALL SHRUBS TO BE A MINIMUM OF 3'-0" FROM ALL WALKS OR CURBS (MEASURED FROM THE CENTER OF THE PLANT)

2) ALL PLANTING BEDS TO BE EDGED WITH 5" TALL X 1/4" WIDE STEEL EDGER (BLACK) OR SPADE DUG EDGE.

3) EROSION CONTROL NETTING SHALL BE USED ON ALL SLOPES GREATER THAN 3:1

4) SOIL AMENDMENTS TO BE SPREAD EVENLY OVER AREA AT A RATE OF 4 CY./1,000 SF AND MIXED THOROUGHLY INTO SOIL SURFACE. PROVIDE OWNER/ LANDSCAPE ARCHITECT PROPOSED PRODUCT PRIOR TO INSTALLATION; INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5) VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE

6) GENERAL CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) AND COMPLIANCE WITH ALL STATE OF MINNESOTA SEDIMENT CONTROL REQUIREMENTS.

7) PERIMETER SEDIMENT BMP'S SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITY. STORM INLET PROTECTION SHALL BE MAINTAINED ON ALL STORM DRAINAGE STRUCTURES.

8) ALL EROSION CONTROL AND SEDIMENT BMP'S SHALL REMAIN IN PLACE AND BE MAINTAINED AS OPERATIONAL UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED AND ALL PAVING IS COMPLETE. CONTRACTOR TO REMOVE ALL EROSION CONTROL PROTECTION ITEMS (SILT FENCE, HAY BALES, ETC.)

9) ALL HORIZONTAL AND VERTICAL CONTROL AND LAYOUT TO BE ESTABLISHED AND MAINTAINED BY THE GENERAL CONTRACTOR UNDER THIS CONTRACT.

10) ALL GRADES AND ELEVATIONS SHOWN ARE FINISHED GRADES AND ELEVATIONS.

11) ALL GRADES SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT 2% MINIMUM SLOPE.

12) IN THE EVENT OF A DISCREPANCY WITH PLANT QUANTITIES, THE PLAN, NOT THE PLANT LIST, SHALL GOVERN THE REQUIRED QUANTITIES. COORDINATE ALL WORK BETWEEN TRADES. NOTIFY THE PROJECT MANAGER OF ANY CONFLICTS AND DISCREPANCIES IMMEDIATELY THAT AFFECT THIS SITE WORK.

13) THE CONTRACTOR SHALL MAINTAIN A CLEAN SITE AT ALL TIMES AND SHALL BE RESPONSIBLE FOR REMOVING TRASH AND CONSTRUCTION DEBRIS FROM THE SITE ON A DAILY BASIS. THE TRACKING OF SOIL ONTO ADJOINING ROADWAYS, WALKS AND PARKING AREAS SHALL NOT BE ALLOWED.

14) ADD 3" OF SELECT PLANTING SOIL TO AREAS TO RECEIVE SOD. TILL PLANTING SOIL INTO EXISTING SOILS TO A DEPTH OF 6" PRIOR TO PLACEMENT OF PLANTING SOIL. REMOVE ALL STONES, STICKS AND OTHER DEBRIS MEASURING MORE THAN 1" FROM AREAS TO RECEIVE SOD.

15) CONTRACTOR TO APPLY FOR ALL NECESSARY PERMITS TO WORK WITHIN THE PUBLIC RIGHT OF WAY.

16) THE TREES/SHRUBS AND SOD/SEED AREAS ARE TO BE MAINTAINED (WATERING, MOWING, FERTILIZING) UNTIL THE OWNER ACCEPTANCE AND THE WARRANTY PERIOD BEGINS.

THESE PLANTING NOTES APPLY TO ALL PLANT AND PLANT-RELATED ASPECTS OF THIS PROJECT. IF THIS PLAN SET CONTAINS A SEPARATE SET OF SPECIFICATIONS, THOSE SEPARATE SPECIFICATIONS SHALL GOVERN.

17) EVERGREEN AND DECIDUOUS TREES SHALL BE SUPPORTED WITH A SYSTEM OF HEAVY DUTY T-BAR STEEL POST STAKES, MINIMUM OF 6' IN LENGTH, WITH WHITE T-POST CAPS AND WITH 17-GAUGE GALVANIZED STEEL WIRE GUYS SECURED TO TREE WITH PROFESSIONAL-GRADE STRAPS (DARK GREEN OR BEIGE IN COLOR), SPECIFICALLY DESIGNED FOR TREE GUYING, ABOVE THE FIRST BRANCH OF DECIDUOUS TREES (4' ABOVE GRADE MINIMUM), 4' ABOVE TOP OF ROOT BALL ON EVERGREEN TREES. STAKES SHALL BE 3' MIN, 5' MAXIMUM FROM TRUNK OF TREE. TREE STRAPS TO BE USED SHALL BE SELECTED BASED ON MANUFACTURER'S RECOMMENDATION FOR THE SIZE TREE RECEIVING THE STRAPS. RUBBER HOSE SHALL NOT BE USED. WIRE TO BE TAUT BUT NOT OVER-TIGHT. TREE GUYING SHALL NOT PREVENT TREE FROM SLIGHT SWAYING UNDER NORMAL ENVIRONMENTAL CONDITIONS, WHICH HELPS DEVELOP ROOT AND TRUNK STRUCTURE. FLAG EACH WIRE WITH WHITE PLASTIC FLAGGING TAPE CENTERED ON WIRE. ADD ADDITIONAL FLAG ON WIRES GUYING EVERGREENS 12" ABOVE IN-GROUND STAKE.

18) CONFERS TO HAVE 2 STEEL POST STAKES, WIRES AND STRAPS FOR TREES 6' IN HEIGHT AND LESS, 3 STEEL POST STAKES, WIRES AND STRAPS FOR TREES ABOVE 6' IN HEIGHT. DECIDUOUS TREES TO HAVE 2 STEEL POST STAKES, WIRES AND STRAPS FOR TREES 2-1/2" CALIPER AND LESS, 3 STAKES, WIRES AND STRAPS ABOVE 2-1/2" CALIPER. ONE STAKE SHALL BE ORIENTATED IN THE DIRECTION OF THE PREVAILING WINDS. REMOVE STAKES, GUY WIRES, STRAPS, AND FLAGGING AFTER 1 YEAR FROM DATE OF INITIAL ACCEPTANCE, OR WHEN DIRECTED BY OWNER OR OWNER REPRESENTATIVE.

19) EACH TREE OR SHRUB, WHETHER CONTAINERIZED OR BALLED AND BURLAPPED, SHALL HAVE THE ROOT FLAIR EXPOSED AND SOIL ABOVE THE LEVEL OF THE ROOT FLAIR REMOVED. SET TREE IN PLANTING PIT WITH ROOT FLAIR 1" ABOVE SURROUNDING SOIL SURFACE. THE PLANTING PIT FOR EACH TREE OR PLANT SHALL BE MEASURED, DUG, VERIFIED AND MODIFIED AS NEEDED TO OBTAIN THE PROPER DEPTH FOR EACH INDIVIDUAL PLANT.

20) TREE SHALL ONLY BE MOVED BY THE BALL / WIRE BASKET. PLUMB TREE ONLY BY THE ROOT BALL. DO NOT PLUMB TREE BY OVERLY / AGGRESSIVELY PULLING OR PUSHING ON TRUNK OR BRANCHES.

21) AFTER TREE HAS BEEN SET IN THE PLANTING PIT TO PROPER GRADE AND PLUMBED, REMOVE TOP $\frac{1}{2}$ OF WIRE BASKET. REMOVE TWINE OR ROPE HOLDING BURLAP OR PLASTIC AROUND ROOT BALL. REMOVE AS MUCH PLASTIC WRAPPING OR TREATED BURLAP AS POSSIBLE. IF REGULAR BURLAP CONTAINS THE ROOT BALL, BACKFILL $\frac{1}{2}$ OF PIT, REMOVE TOP $\frac{1}{2}$ OF BURLAP AND COMPLETE BACKFILL. SOIL SHALL BE SETTLED AROUND ROOT BALL TO REMOVE LARGE AIR VOIDS WITH WATER. BACKFILL SHALL NOT BE PLACED ON TOP OF ROOTBALL.

22) CARE SHALL BE TAKEN TO INSURE BALL REMAINS INTACT WITH MINIMAL DISTURBANCE TO THE INTEGRITY OF THE SOIL BALL AND / OR TREE ROOTS. SOIL BALLS OF TREES WHICH ARE DEEMED BY THE OWNER OR OWNERS REPRESENTATIVE TO NOT BE OF ADEQUATE INTEGRITY, OR TRUNKS WHICH ARE LOOSE FROM THEIR SOIL BALLS, BEFORE OR AFTER BEING PLACED INTO THE PLANTING PIT, MAY BE REJECTED. CONTRACTOR SHALL PROMPTLY REMOVE REJECTED PLANT MATERIAL FROM SITE AND REPLACE WITH PLANT MATERIAL ORIGINALLY SCHEDULED. INSTALL AS ORIGINALLY SPECIFIED.

23) FABRIC WEED BARRIER - SHALL BE A 4 OZ. SPUNBONDED NON-WOVEN POLYESTER FABRIC, MIRAFI, INC. - MIRASCAPE LANDSCAPE FABRIC OR APPROVED EQUAL. PROVIDE SAMPLE TO OWNERS REPRESENTATIVE FOR APPROVAL. PERENNIAL AND GROUND COVER BEDS DO NOT RECEIVE WEED CONTROL FABRIC.

24) MULCH SHALL BE SHREDDED HARDWOOD MULCH AS NOTED ON PLAN AND/ OR DETAILS. SUBMIT SAMPLE FOR APPROVAL.

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

N

BANKS AVE

TOWER AVE

1-0 W3-3 36"X36" — BAND TO EXISTING LIGHT POLE (500' WEST OF BANKS AVE INTERSECTION)

1-1 BEGIN LEFT TURN LANE R3-20-L 24"X36"

1-2 LEFT TURN LANE REMOVE

1-3 R4-7 24"X30"

1-4 Banks Ave M1-94-H 78"X18"

1-5 YIELD R1-2 36"X31"

1-6 STOP R1-1F 36"X36"

1-7 STOP R1-1F 30"X30"

1-8 STOP R1-1F 36"X36"

1-9 Belknap St M1-94-H 90"X18"

1-10 R4-7 24"X30"

1-11 Belknap St M1-94-H 90"X18"

1-12 NO PARKING ANY TIME R7-1-L 18"X24"

1-13 STOP R1-1F 30"X30"

1-14 Banks Ave M1-94-H 78"X18"

1-15 STOP R1-1F 36"X36"

1-16 UW Superior Wessman Arena 54"X30"

1-17 NO PARKING ANY TIME R7-1-D 18"X24"

1-19 REMOVE

1-20 NO PARKING ANY TIME R7-1-D 18"X24"

1-21 DO NOT ENTER R5-1 30"X30"

1-22 TO INTERSTATE 35 WEST 2 NO PARKING ANY TIME REMOVE

1-23 SAHA ICE ARENA MOVE

1-23 TRUCKS USE LEFT LANE R4-5L 24"X30"

1-24 NO PARKING ANY TIME R7-1-D 18"X24"

1-25 NO PARKING ANY TIME R7-1-D 18"X24"

1-26 LAKE SUPERIOR M1-91 24"X24"

1-27 STOP R1-1F 36"X36"

1-28 2 J13-1 24"X45"

1-30 Tower Ave M1-94-H 78"X18"

1-31 STOP R1-1F 36"X36"

1-32 35 J13-1 24"X45"

1-33 SOUTH 35 J4-1 24"X36"

1-34 Belknap St M1-94-H 90"X18"

1-35 R4-7 24"X30"

1-36 R4-7 24"X30"

1-37 ONLY ONLY ONLY REMOVE

1-38 Belknap St M1-94-H 90"X18"

1-39 NORTH 35 J4-1 24"X36"

1-40 STOP R1-1F 36"X36"

1-41 35 J13-1 24"X45"

1-42 Tower Ave M1-94-H 78"X18"

1-43 2 J13-1 24"X45"

1-44 STOP R1-1F 36"X36"

1-45 DO NOT ENTER R5-1 30"X30"

1-46 ONLY ONLY ONLY R3-8-W 54"X30" — INSTALL ON NEXT LIGHT POLE (280' SOUTH OF INTERSECTION)

1-47 EAST 2 J4-1 24"X36"

136+00 137+00 138+00 139+00 USH 2 / BELKNAP ST 140+00 141+00 142+00

MATCHLINE STA 142+50

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 248	E

2

*R7-200 SIGNS SHALL HAVE NO PARKING 3:00 AM TO 6:00 AM, AND TWO HOUR PARKING FROM 7:00 AM TO 7:00 PM (ARROWS VARY)

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

N

OGDEN AVE

JOHN AVE

ONE-WAY

MATCHLINE STA 142+50

MATCHLINE STA 149+50

143+00 144+00 145+00 146+00 147+00 148+00 149+00

USH 2 / BELKNAP ST

2-0 TRUCKS USE LEFT LANE R4-5L 24"X30"

2-1 R7-200 20"X18" *

2-2 NO PARKING ANY TIME R7-1-D 18"X24"

2-3 R7-200 20"X18" *

2-4 Ogden Ave M1-94-H 78"X18"

2-5 JCT 35 J1-1 24"X39"

2-6 STOP R1-1F 30"X30"

2-7 REMOVE

2-8 STOP R1-1F 36"X36"

2-9 Belknap St M1-94-H 90"X18"

2-10 REMOVE

2-11 Belknap St M1-94-H 90"X18"

2-12 STOP R1-1F 36"X36"

2-13 Ogden Ave M1-94-H 78"X18"

2-14 STOP R1-1F 30"X30"

2-15 REMOVE

2-16 REMOVE

2-17 NO PARKING ANY TIME R7-1-D 18"X24"

2-18 REMOVE

2-19 DO NOT ENTER R5-1 30"X30" / ONE WAY R6-2-L 24"X30"

2-20 REMOVE

2-21 ONE WAY R6-2-R 24"X30"

2-22 ONE WAY R6-2-L 24"X30"

2-23 R4-7 24"X30"

2-24 STOP R1-1 30"X30"

2-25 ONE WAY R6-2-R 24"X30"

2-26 ONE WAY R6-2-L 24"X30"

2-27 DO NOT ENTER R5-1 30"X30"

2-28 R6-2-R 24"X30" ONE WAY

2-29 ONE WAY R6-2-L 24"X30"

2-30 J4-1 24"X36" EAST 2 M1-91 24"X24"

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 249	E

2

2

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

N

HUGHITT AVE

R7-200 20"X18" — NO PARKING 3:00 AM TO 6:00 AM — TWO HOUR PARKING 7AM-7PM — 3-3

REMOVE: NO PARKING 3:00 AM TO 6:00 AM; TWO HOUR PARKING 8AM-6PM

STOP R1-1 30"X30" — 3-6

R7-200 20"X18" — 3-12

REMOVE: NO PARKING 3:00 AM TO 6:00 AM; TWO HOUR PARKING 8AM-6PM

WEST 2 LAKE SUPERIOR — J4-1 24"X36"; M1-91 24"X24" — 3-13

R7-200 20"X18" — NO PARKING 3:00 AM TO 6:00 AM — TWO HOUR PARKING 7AM-7PM

R7-51-R 18"X24" — NO PARKING HERE TO CORNER — 3-14

REMOVE: NO PARKING 3:00 AM TO 6:00 AM; TWO HOUR PARKING 8AM-6PM

3-18 — TRUCKS USE LEFT LANE — R4-5L 24"X30"

3-17

MATCHLINE STA 149+50

150+00 | 151+00 | 152+00 | 153+00 | USH 2 / BELKNAP ST | 154+00 | 155+00 | Hammond Ave | 156

M1-94-H 108"X18"

MATCHLINE STA 156+00

REMOVE: NO PARKING 3:00 AM TO 6:00 AM; TWO HOUR PARKING 8AM-6PM — 3-4

R7-200 20"X18" — NO PARKING 3:00 AM TO 6:00 AM — TWO HOUR PARKING 7AM-7PM

3-2 — R7-200 20"X18" — NO PARKING 3:00 AM TO 6:00 AM — TWO HOUR PARKING 7AM-7PM

REMOVE: NO PARKING 3:00 AM TO 6:00 AM; TWO HOUR PARKING 8AM-6PM

REMOVE: NO NIGHT PARKING — 3-7

REMOVE: NO NIGHT PARKING — 3-8

HUGHITT AVE

3-11 — NO TRUCKS ON HAMMOND AVE 42"X24"

3-9

STOP R1-1 30"X30"

3-10 — M4-8 24"X12" — DETOUR EAST — M4-8 24"X12" — DETOUR SOUTH — M3-2 24"X12" — M3-3 24"X12" — 2 53 — M50-2 48"X24" — M50-2A 48"X21"

3-15 — M4-8 24"X12" — DETOUR EAST — M4-8 24"X12" — DETOUR SOUTH — M3-2 24"X12" — M3-3 24"X12" — 2 53 — M50-2 48"X24" — M50-2A 48"X21"

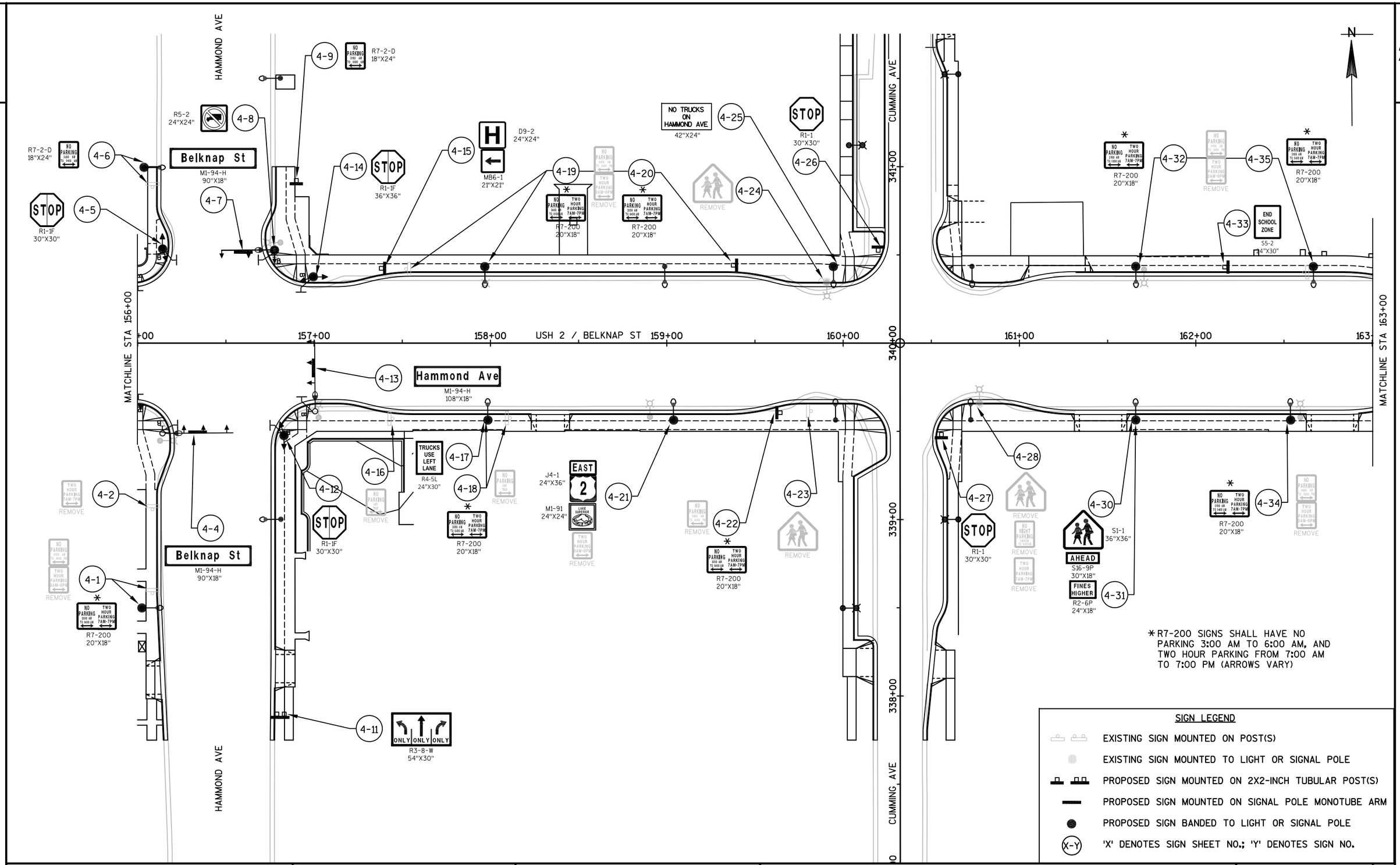
3-16

STOP R1-1F 36"X36"

* R7-200 SIGNS SHALL HAVE NO PARKING 3:00 AM TO 6:00 AM, AND TWO HOUR PARKING FROM 7:00 AM TO 7:00 PM (ARROWS VARY)

** SNOW EMERGENCY SIGNS ARE HINGED FOR FOLDING ABOVE AND BELOW THE ROUTE MARKER M50-2 SIGN.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 250	E

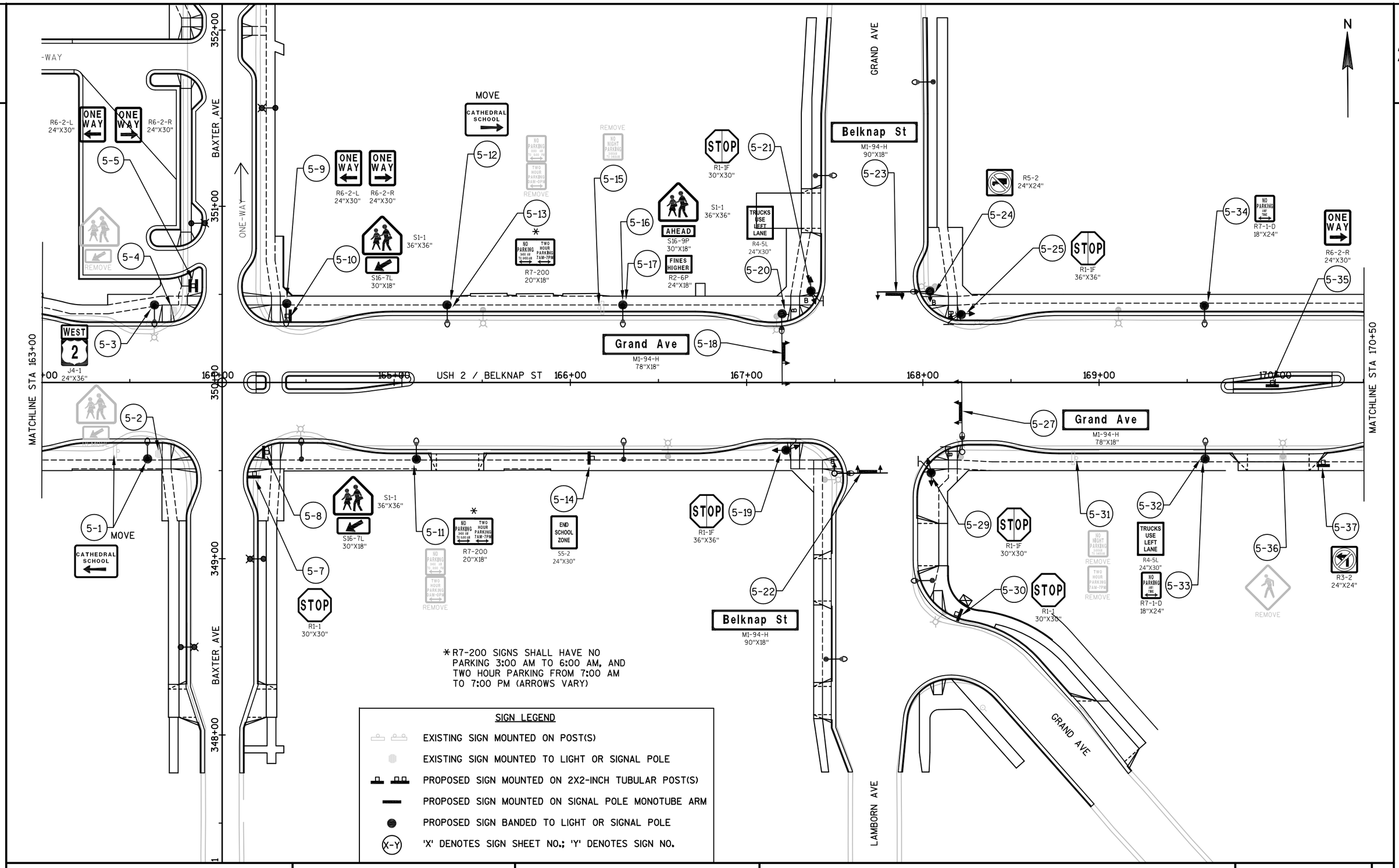


* R7-200 SIGNS SHALL HAVE NO PARKING 3:00 AM TO 6:00 AM, AND TWO HOUR PARKING FROM 7:00 AM TO 7:00 PM (ARROWS VARY)

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 251	E



*R7-200 SIGNS SHALL HAVE NO PARKING 3:00 AM TO 6:00 AM, AND TWO HOUR PARKING FROM 7:00 AM TO 7:00 PM (ARROWS VARY)

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 252	E

2

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

N

WEEKS AVE

MATCHLINE STA 170+50

171+00 172+00 173+00 174+00 USH 2 / BELKNAP ST 175+00 176+00 177+00

MATCHLINE STA 177+50

CLOUGH AVE

6-1 J4-1 24"X36" WEST 2 M1-91 24"X24"

6-2 R1-1 30"X30" STOP

6-3 R4-7 24"X30"

6-4 W11-2 30"X30" W16-7L 24"X12"

6-5 NO NIGHT PARKING 2AM TO 10AM REMOVE; TWO HOUR PARKING 7AM-7PM REMOVE

6-6 NO PARKING ANY TIME REMOVE

6-7 R7-1-R 18"X24"

6-8 R7-1-D 18"X24" NO PARKING ANY TIME

6-9 R4-7 24"X30"

6-10 SPEED LIMIT 30 REMOVE; NO PARKING ANY TIME REMOVE

6-11 R4-7 24"X30"

6-12 W11-2 30"X30" W16-7L 24"X12"

6-13 R4-7 24"X30"

6-14 ONE WAY REMOVE

6-15 ONE WAY REMOVE

6-16 ONE WAY REMOVE; ONE WAY REMOVE

6-17 ONE WAY REMOVE

6-18 ONE WAY REMOVE

6-19 PERMIT PARKING ONLY 12 Hours 8 AM to 8 PM MOVE

6-20 R1-1 30"X30" STOP

6-21 J4-1 24"X36" EAST 2 M1-91 24"X24"

6-22 SPEED LIMIT 30 R2-1 24"X30"; NO PARKING ANY TIME R7-1-D 18"X24"

6-23 REMOVE

6-24 LAKE SUPERIOR DRIVE REMOVE; EAST 2 REMOVE; NO PARKING ANY TIME REMOVE

6-25 SPEED LIMIT 30 R2-1 24"X30"; NO PARKING ANY TIME R7-1-D 18"X24"

6-26 W11-2 30"X30" W16-7L 24"X12"

6-27 R1-1 30"X30" STOP

6-28 W11-2 30"X30" W16-7L 24"X12"

6-29 CHURCH ENTRANCE ONLY EXISTING; SPEED LIMIT 30 REMOVE

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 253	E

2

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

N

FISHER AVE

CATLIN AVE

7-1 R7-1-L 18"X24"

7-2 REMOVE NO PARKING ANY TIME REMOVE

7-3 REMOVE ONE PERMIT PARKING ONLY

7-4 STOP R1-1 30"X30"

7-6 STOP R1-1 30"X30"

7-7 NO PARKING ANY TIME R7-1-L 18"X24"

7-8 NO PARKING ANY TIME R7-1-R 18"X24"

7-9 REMOVE NO PARKING ANY TIME 9th-10th GRADE BASKETBALL SUPERIOR SENIOR HIGH SCHOOL Sponsored by Hardees KBJR - TV 3 REMOVE

7-10 NO PARKING ANY TIME R7-1-D 18"X24"

7-11 NO PARKING ANY TIME R7-1-D 18"X24"

7-12 REMOVE NO PARKING ANY TIME

7-13 Catlin Ave M1-94-H 78"X18"

7-14 NO PARKING ANY TIME R7-1-R 18"X24"

7-15 STOP R1-1F 36"X36"

7-16 NO PARKING ANY TIME R7-1-L 18"X24"

7-17 STOP R1-1F 30"X30"

7-19 Belknap St M1-94-H 90"X18"

7-20 R5-2 24"X24"

7-21 Belknap St M1-94-H 90"X18"

7-23 STOP R1-1F 36"X36"

7-24 Catlin Ave M1-94-H 78"X18"

7-25 STOP R1-1F 30"X30"

7-27 NO PARKING ANY TIME R7-1-L 18"X24"

7-28 STOP REMOVE UNIVERSITY of WISCONSIN SUPERIOR PARKING LOT REMOVE

7-29 NO PARKING ANY TIME REMOVE

7-30 NO PARKING ANY TIME R7-1-D 18"X24"

MATCHLINE STA 177+50

178+00 179+00 USH 2/ BELKNAP ST 180+00 181+00 182+00 183+00 184+00

MATCHLINE STA 184+50

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\023201_PS.DWG PLOT DATE : 7/20/2016 3:44 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

N

BIRCH AVE

CYPRESS AVE

CYPRESS AVENUE IS ONE-WAY (NORTH)
FROM BELKNAP STREET TO 1ST ALLEY

MATCHLINE STA 184+50

MATCHLINE STA 191+00

185+00 186+00 187+00 188+00 189+00 190+00 191+00

USH 2/ BELKNAP ST

MORTORELLI DR

8-1 STOP REMOVE
8-2 NO PARKING ANY TIME REMOVE
8-3 NO PARKING ANY TIME R7-1-D 18"X24"
8-4 NO PARKING ANY TIME R7-1-L 18"X24"
8-5 R1-1 30"X30" STOP
8-6 NO PARKING HERE TO CORNER R7-51-L 18"X24"
8-7 NO PARKING HERE TO CORNER R7-51-R 18"X24"
8-8 R4-7 24"X30"
8-9 W11-2 30"X30" W16-7L 24"X12"
8-10 NO PARKING ANY TIME R7-1-R 18"X24"
8-11 WI Indianhead Tech College 54"X30"
8-12 NO PARKING ANY TIME REMOVE
8-13 ONE WAY R6-2-R 24"X30"
8-14 R4-7 24"X30"
8-15 J4-1 24"X36" WEST 2 M1-91 24"X24" LAKE SUPERIOR NO PARKING ANY TIME R7-1-D 18"X24"
8-16 W11-2 30"X30" W16-7L 24"X12"
8-17 NO PARKING ANY TIME R7-1-R 18"X24"
8-18 R3-1 24"X24"
8-19 DO NOT ENTER R5-1 30"X30"
8-21 R5-2 24"X24"
8-22 R5-2 24"X24"
8-23 R3-2 24"X24"
8-24 ONE WAY R6-2-L 24"X30" ONE WAY R6-2-R 24"X30"
8-25 NO PARKING ANY TIME REMOVE
8-26 NO PARKING THIS PM TO 4:00 PM R7-2-D 18"X24"
8-27 NO PARKING HERE TO CORNER R7-51-L 18"X24"
8-28 STOP R1-1 30"X30"
8-29 SPEED LIMIT 30 R2-1 24"X30" NO PARKING ANY TIME R7-1-D 18"X24"
8-30 NO PARKING ANY TIME R7-1-L 18"X24"
8-31 SPEED LIMIT 30 REMOVE
8-32 TRUCKS USE LEFT LANE R4-5L 24"X30"

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 255	E

2

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

N

POPLAR AVE

MATCHLINE STA 191+00

192+00

193+00

USH 2/ BELKNAP ST

194+00

195+00

196+00

197+00

MATCHLINE STA 197+50

9-1 WI Indianhead Tech College, 54"X30"

9-2 REMOVE: LAKE SUPERIOR TRAIL; EAST 2; NO PARKING ANY TIME

9-3 STOP, R1-1, 30"X30"

9-4 NO PARKING HERE TO CORNER, R7-51-L, 18"X24"

9-5 NO PARKING HERE TO CORNER, R7-51-R, 18"X24"

9-6 NO PARKING ANY TIME, R7-1-R, 18"X24"

9-7 J4-1, 24"X36"; EAST 2; M1-91, 24"X24"; LAKE SUPERIOR TRAIL; NO PARKING ANY TIME, R7-1-D, 18"X24"

9-8 REMOVE: NO PARKING ANY TIME

9-9 W10-1, 36"X36"

9-10 NO TRAIN HORN, MOVE

9-11 TRUCKS USE LEFT LANE, R4-5L, 24"X30"

9-12 NO PARKING ANY TIME, R7-1-D, 18"X24"

9-13 NO PARKING ANY TIME, R7-1-D, 18"X24"

9-14 REMOVE: NO PARKING ANY TIME

9-15 NO PARKING ANY TIME, R7-1-D, 18"X24"

9-16 SPEED LIMIT 30, R2-1, 24"X30"; NO PARKING ANY TIME, R7-1-D, 18"X24"

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 256	E

2

N

PINE AVE

ELM AVE

ELM AVE

ONE-WAY

"A" HAYES CT ONE-WAY

SEE NEW LOCATION STA. 204+20

MATCHLINE STA 197+50

MATCHLINE STA 204+00

198+00 199+00 200+00 USH 2/ BELKNAP ST 201+00 202+00 203+00 204

10-1 NO PARKING ANY TIME R7-1-D 18"X24" REMOVE

10-2 NO PARKING ANY TIME R7-1-D 18"X24"

10-3 NO PARKING ANY TIME R7-1-L 18"X24"

10-4 STOP R1-1 30"X30"

10-5 DEAD END W14-1 30"X30"

10-6 R4-7 24"X30"

10-7 STOP REMOVE

10-8 W11-2 30"X30" W16-7L 24"X12"

10-9 R4-7 24"X30"

10-10 NO PARKING ANY TIME R7-1-R 18"X24"

10-11 STOP R1-1 30"X30"

10-12 NO TRAIN HORN MOVE

10-13 R R W10-1 36"X36"

10-14 REMOVE WEST 2 REMOVE

10-15 STOP REMOVE

10-16 W3-3 36"X36" NO PARKING ANY TIME R7-1-R 18"X24"

10-17 NO PARKING ANY TIME R7-1-D 18"X24"

10-18 R1-1 30"X30" STOP

10-19 ONE WAY R6-2-L 24"X30" ONE WAY R6-2-R 24"X30"

10-20 R5-2 24"X24"

10-21 STOP R1-1 30"X30"

10-22 ONE WAY R6-2-R 24"X30" ONE WAY R6-2-L 24"X30"

10-23 SLOW CHILDREN REMOVE

10-24 NO PARKING ANY TIME R7-1-L 18"X24"

10-25 NO PARKING ANY TIME REMOVE

10-26 NO PARKING ANY TIME REMOVE

10-27 DO NOT ENTER R5-1 30"X30"

10-28 NO PARKING ANY TIME R7-1-D 18"X24"

10-29 REMOVE EAST 2 REMOVE

10-30 DO NOT ENTER R5-1 30"X30"

10-31 NO PARKING ANY TIME REMOVE

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 257	E

2

N

CEDAR AVE

HILL AVE

MATCHLINE STA 204+00

USH 2/ BELKNAP ST

"A" HAYES CT

"A" HAYES CT

HILL AVE

11-1 NO PARKING R7-1-D 18"X24"

11-2 J4-1 WEST 2 LAKE SUPERIOR 24"X36"; M1-91 24"X24"

11-3 STOP R1-1 30"X30"

11-4 ONE WAY R6-2-R 24"X30"

11-5 W11-2 30"X30"; W16-7L 24"X12"

11-6 R4-7 24"X30"

11-7 W11-2 30"X30"; W16-7L 24"X12"

11-8 SPEED LIMIT 30 R2-1 24"X30"; NO PARKING R7-1-D 18"X24"

11-9 MOVE MARINER MALL SHOPPING CENTER 1 MILE AHEAD; National Guard Armory D1-55-R 60"X21"

11-10 MOVE MARINER MALL SHOPPING CENTER 1 MILE AHEAD; National Guard Armory D1-55-R 60"X21"

11-11 NO PARKING R7-1-D 18"X24" REMOVE

11-12 STOP R1-1F 36"X36"; NO PARKING R7-1-R 18"X24"

11-13 REMOVE

11-14 DO NOT ENTER R5-1 30"X30"

11-15 STOP R1-1 30"X30"

11-16 Belknap St M1-94-H 90"X18"

11-17 R5-2 24"X24"

11-18 Hill Ave M1-94-H 60"X18"

11-19 TRUCKS USE LEFT LANE R4-5L 24"X30"

11-20 STOP R1-1F 30"X30"

11-21 Belknap St M1-94-H 90"X18"

11-22 DEAD END REMOVE

11-23 W14-1 30"X30" DEAD END

11-24 WEST 2 EAST 2 J3-2 48"X57"

11-25

11-26 WEST 2 REMOVE; EAST 2 REMOVE

11-27

11-28 STOP R1-1F 30"X30"

11-29

11-30 Hill Ave M1-94-H 60"X18"

11-31 NO PARKING R7-1-R 18"X24"

11-32 MOVE MARINER MALL SHOPPING CENTER 1 MILE AHEAD; National Guard Armory D1-55-L 60"X21"

11-33 STOP R1-1F 36"X36"

205+00 206+00 207+00 208+00 209+00 210+00 211+00

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET 258	E

2

N

337+00 CUMMING AVE 338+00 339+00 340+00 341+00 342+00 CUMMING AVE 343+00 343+84

CUMMING AVE

158+00 159+00 USH 2 / BELKNAP ST 160+00 161+00 162+00

REMOVE
12-2

REMOVE
12-3

R7-8-R
12"X18"
R7-8-V
12"X6"
12-1

R7-8-A
12"X18"
R7-8-V
12"X6"
12-10

R7-8-A
12"X18"
R7-8-V
12"X6"
12-4

R7-8-A
12"X18"
R7-8-V
12"X6"
12-11

R7-8-A
12"X18"
R7-8-V
12"X6"
12-12

R7-8-L
12"X18"
R7-8-V
12"X6"
12-6

12-5

REMOVE

DO NOT ENTER
R5-1
30"X30"
12-7

12-8
R7-8-A
12"X18"

12-9
NO PARKING
R7-1-L
18"X24"

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING - CUMMING AVENUE	SHEET 259	E

2

N

ONE-WAY

ONE-WAY

162+00

163+00

USH 2 / BELKNAP ST

165+00

166+00

347+21

348+00

BAXTER AVE

349+00

350+00

351+00

352+00

BAXTER AVE

353+00

354+00

BAXTER AVE

MOVE

13-1

ONE WAY
R6-2-R
24"X30"

ONE WAY
R6-2-L
24"X30"

ONE-WAY

13-3

13-4

13-5

13-6

13-7

13-8

13-9

ONE WAY
R6-2-L
24"X30"

ONE WAY
R6-2-R
24"X30"

DO NOT ENTER
R5-1
30"X30"

ONE WAY
R6-2-L
24"X30"

S1-1
36"X36"
AHEAD
S16-9P
30"X18"

DO NOT ENTER
R5-1
30"X30"

S1-1
36"X36"
S16-7R
30"X18"

S1-1
36"X36"
S16-7L
30"X18"

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED TO LIGHT OR SIGNAL POLE
- PROPOSED SIGN MOUNTED ON 2X2-INCH TUBULAR POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE MONOTUBE ARM
- PROPOSED SIGN BANDED TO LIGHT OR SIGNAL POLE
- (X-Y) 'X' DENOTES SIGN SHEET NO.; 'Y' DENOTES SIGN NO.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	PERMANENT SIGNING - BAXTER AVENUE	SHEET 260	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\023201_PS.DWG PLOT DATE : 7/18/2016 10:31 AM PLOT BY : USER PLOT NAME : PLOT SCALE : 1:50_XREF

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

X-1-(-,-)
STA 135+82, 54.5' LT
129-24-6

INSTALL LIGHTING UNIT TYPE SPECIAL 1 ON EXISTING CONCRETE LIGHT BASE

SALVAGE EXISTING LIGHTING UNIT. CONCRETE BASE SHALL REMAIN INPLACE

USH 2

1
642.690
CP

INSTALL LIGHTING UNIT TYPE SPECIAL 1 ON EXISTING CONCRETE LIGHT BASE

X-3-(-,-)
STA 136+85, 61.7' RT
129-24-6

X-2-(-,-)
STA 135+93, 54.1' RT
129-24-6

COUPLE TO EXISTING 2" NMC, ROUTE NEW CONDUCTORS INTO EXISTING LIGHTING UNIT X-2. CONNECT TO EXISTING CIRCUITRY.

X-4-(-,-)
STA 4+11, 43.4' LT
129-24-6

X-5-(-,-)
STA 3+28, 35.2' LT
129-24-6

M BANKS AVE

A-1-(1,3)(2)
STA 6+67, 30.7' RT
129-24-6

2" NMC (DIRECTIONAL BORE), (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND

A-2-(1,3)(4)
STA 6+00, 30.4' RT
129-24-6

2" NMC (DIRECTIONAL BORE), (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND

A-4-(1,3)(2)
STA 138+93, 37.5' LT
129-24-6

PB-1
STA 138+19, 36.9 LT

A-6-(1,3)(4)
STA 140+07, 37.5' LT
129-24-6

2" NMC,
#12 LOCATOR WIRE W/ PULL STRING

A-5-(5,7)(8)
STA 140+07, 37.5' RT
129-24-6

A-3-(5,7)(6)
STA 138+93, 37.5' RT
129-24-6

PB-2
STA 138+09, 37.9 RT

MATCHLINE STA 140+25

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 261 E

2

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

N

MATCHLINE STA 140+25

MATCHLINE STA 687+25

MATCHLINE STA 146+25

USH 2

OGDEN AVE

PB-3
STA 140+72, 37.1 LT

STA 140+71, 37.2 RT
PB-4

PB-5
STA 142+04, 40.5 LT

STA 142+03, 38.5 RT
PB-6

A-8-(1,3)(2)
STA 142+76, 45.1' LT
129-24-6

A-7-(5,7)(6)
STA 142+80, 37.4' RT
129-24-6

STA 143+92, 47.5' RT
129-24-6
A-9-(5,7)(8)

A-10-(1,3)(4)
STA 143+87, 44.7' LT
129-24-6

STA 144+71, 40.9 LT
PB-7

STA 144+71, 42.3 RT
PB-8

A-13-(1,3)(2)
STA 101+00, 25.0' LT
129-24-6

2" NMC (DIRECTIONAL BORE),
(4)#6, (6)#4, & (2)#6 GND

A-14-(9,11)(10)
STA 101+67, 25.2' RT
129-24-6

STA 145+75, 41.3 LT
PB-9

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

STA 145+73, 39.7 RT
PB-10

2" NMC (DIRECTIONAL BORE),
(4)#6, (6)#4, & (2)#6 GND

A-12-(13,15)(14)
STA 99+06, 31.9' RT
129-24-6

2" NMC (DIRECTIONAL BORE),
(4)#6, (6)#4, & (2)#6 GND

A-11-(5,7)(6)
STA 98+27, 20.9' LT
129-24-6

STA 97+92, 20.9' LT
LIGHTING CONTROL CABINET
120/240 VOLT, 1Φ

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

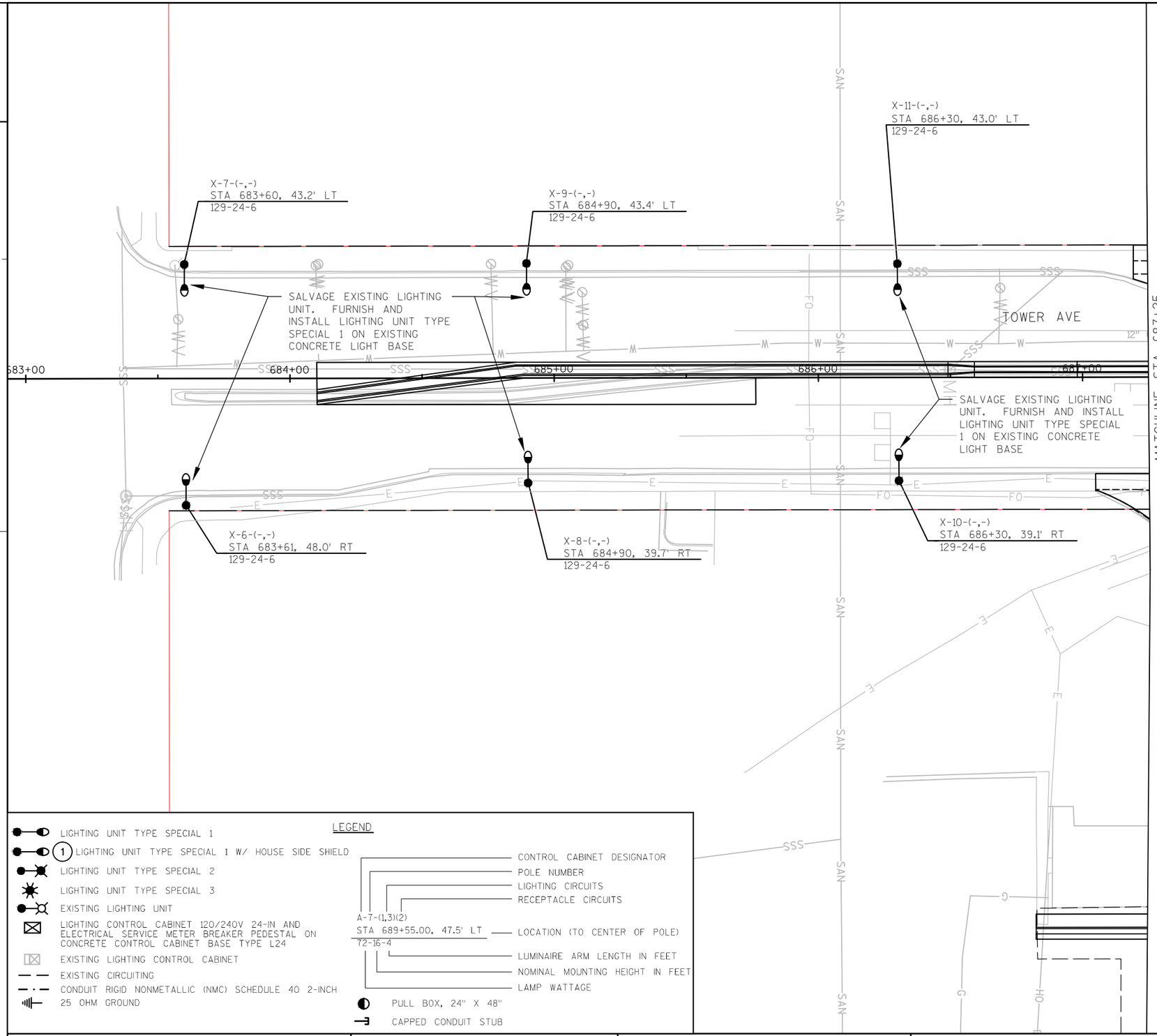
LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 262	E



N

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
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4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

N

MATCHLINE STA 146+25

MATCHLINE STA 151+50

USH 2

JOHN AVE

A-16-(9,11)(12)
STA 146+67, 47.5' LT
129-24-6

A-18-(9,11)(10)
STA 147+63, 37.5' LT
129-24-6

A-20-(9,11)(12)
STA 148+44, 38.5' LT
129-24-6

A-23-(9,11)(10)
STA 301+01, 19.1' LT
52-16-4

A-24-(9,11)(12)
STA 301+50, 18.3' RT
52-16-4

A-26-(9,11)(10)
STA 149+34, 38.5' LT
129-24-6

A-28-(9,11)(12)
STA 150+28, 43.5' LT
129-24-6

B-2-(1,3)(2)
STA 151+38, 43.4' LT
129-24-6

2" NMC,
#12 LOCATOR WIRE W/ PULL STRING

A-15-(13,15)(16)
STA 146+68, 37.5' RT
129-24-6

A-17-(13,15)(16)
STA 147+64, 37.5' RT
129-24-6

A-19-(13,15)(14)
STA 148+45, 38.5' RT
129-24-6

A-21-(13,15)(14)
STA 298+50, 18.6' LT
52-16-4

A-22-(13,15)(16)
STA 299+00, 18.7' RT
52-16-4

A-25-(13,15)(14)
STA 149+34, 38.5' RT
129-24-6

A-27-(13,15)(16)
STA 150+32, 43.5' RT
129-24-6

B-1-(5,7)(6)
STA 151+38, 43.5' RT
129-24-6

2
641.870
CP

300+00

301+00

299+00

147+00

148+00

149+00

150+00

151+00

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
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   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

(1) SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE

(2) REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE

(3) EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 264	E

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
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   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

(1) SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE

(2) REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE

(3) EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

B-5-(1,3)(2)
STA 311+00, 23.6' LT
52-16-4

B-4-(1,3)(4)
STA 152+24, 42.2' LT
129-24-6

B-6-(1,3)(4)
STA 311+74, 26.5' RT
52-16-4

B-10-(1,3)(2)
STA 153+10, 38.5' LT
129-24-6

B-12-(1,3)(4)
STA 153+95, 42.5' LT
129-24-6

B-14-(1,3)(2)
STA 154+93, 41.8' LT
129-24-6

B-15-(1,3)(4)
STA 330+99, 43.5' LT
129-24-6

B-16-(9,11)(10)
STA 331+50, 33.7' RT
129-24-6

CONNECT TO EXISTING GROUND MOUNTED FLOOD LIGHT. ROUTE CONDUIT INTO EXISTING JUNCTION BOX AND SPLICE TO EXISTING CIRCUITRY

2" NMC (DIRECTIONAL BORE), (4)#6, (6)#4, & (2)#6 GND

2" NMC, (4)#6, (6)#4, & (2)#6 GND

PB-33
STA 330+72, 51.7 RT

3/4" NMC, (2)#10 & (1)#10 GND

SEE LANDSCAPE PLANS FOR CONNECTION TO MONUMENT FLOOD LIGHTS

1" NMC, (2)#8 & (1)#8 GND

RRFB EQUIPPED POLE. SEE SIGNING PLANS

USH 2

PB-11
STA 155+81, 37.5 LT

PB-13
STA 157+04, 41.9 LT

PB-14
STA 157+07, 41.6 RT

PB-12
STA 155+82, 41.3 RT

2" NMC, (2)#6, (3)#4), (2)#8, & (1)#6 GND

2" NMC, (4)#6, (6)#4, & (2)#6 GND

2" NMC, (4)#6, (6)#4, (2)#8, & (2)#6 GND

2" NMC, (4)#6, (6)#4, & (2)#6 GND

EXISTING LIGHTING CONTROL CABINET LCC-X-1

B-3-(5,7)(8)
STA 152+24, 42.7' RT
129-24-6

B-9-(5,7)(6)
STA 153+06, 38.5' RT
129-24-6

B-11-(5,7)(8)
STA 154+03, 42.5' RT
129-24-6

B-13-(5,7)(6)
STA 154+93, 42.5' RT
129-24-6

B-8-(5,7)(8)
STA 308+93, 20.5' RT
52-16-4

B-7-(5,7)(6)
STA 308+39, 27.8' LT
52-16-4

B-17-(5,7)(8)
STA 328+50, 44.7' LT
129-24-6

B-18-(13,15)(14)
STA 329+00, 34.0' RT
129-24-6

STA 328+28, 44.8' LT
LIGHTING CONTROL CABINET "B"
120/240 VOLT, 1Φ

HUGHITT AVE

HAMMOND AVE

MATCHLINE STA 151+50

MATCHLINE STA 157+50

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 265	E

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2) — CONTROL CABINET DESIGNATOR
STA 689+55.00, 47.5' LT — POLE NUMBER
72-16-4 — LIGHTING CIRCUITS, RECEPTACLE CIRCUITS
LOCATION (TO CENTER OF POLE)
LUMINAIRE ARM LENGTH IN FEET
NOMINAL MOUNTING HEIGHT IN FEET
LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

B-19-(9,11)(12)
STA 157+97, 43.5' LT
129-24-6

B-22-(9,11)(10)
STA 158+99, 43.5' LT
129-24-6

B-23-(9,11)(10)
STA 341+12, 34.0' LT
52-16-4

B-24-(9,11)(12)
STA 159+86, 38.5' LT
129-24-6

B-25-(13,15)(16)
STA 159+88, 38.5' RT
129-24-6

B-20-(13,15)(16)
STA 157+99, 42.5' RT
129-24-6

B-21-(13,15)(14)
STA 159+04, 42.5' RT
129-24-6

B-30-(9,11)(12)
STA 341+52, 33.0' RT
52-16-4

B-29-(9,11)(10)
STA 160+80, 38.5' LT
129-24-6

B-31-(9,11)(12)
STA 161+66, 42.5' LT
129-24-6

C-1-(1,3)(2)
STA 162+67, 42.5' LT
129-24-6

2" NMC,
#12 LOCATOR WIRE W/ PULL STRING

B-28-(13,15)(14)
STA 160+79, 38.5' RT
129-24-6

B-32-(13,15)(16)
STA 161+69, 42.5' RT
129-24-6

C-2-(5,7)(6)
STA 162+54, 42.5' RT
129-24-6

B-27-(13,15)(16)
STA 339+00, 33.0' RT
52-16-4

B-26-(13,15)(14)
STA 338+50, 32.5' LT
52-16-4

USH 2

MATCHLINE STA 157+50

MATCHLINE STA 163+25

CUMMING AVE

158+00 159+00 160+00 161+00 162+00 163+00

341+00 340+00 339+00

N

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

(1) SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE

(2) REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE

(3) EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 266 E

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
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KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

C-8-(1,3)(4)
STA 351+56, 31.6' RT
52-16-4

C-7-(1,3)(2)
STA 350+90, 17.5' LT
52-16-4

C-15-(1,3)(4)
STA 371+17, 33.5' LT
129-24-6

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

C-11-(1,3)(4)
STA 165+30, 42.5' LT
129-24-6

C-13-(1,3)(2)
STA 166+30, 42.5' LT
129-24-6

C-9-(1,3)(2)
STA 164+39, 42.5' LT
129-24-6

C-17-(9,11)(10)
STA 371+71, 33.3' RT
129-24-6

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

RRFB EQUIPPED POLE.
SEE SIGNING PLANS

C-3-(1,3)(4)
STA 163+59, 38.5' LT
129-24-6

PB-15
STA 167+16, 41.6 LT

PB-17
STA 168+30, 42.0 LT

RRFB.
SEE SIGNING PLANS

1" NMC,
(2)#8 & (1)#8 GND

PULL BOX,
SEE SIGNING PLANS

C-4-(5,7)(8)
STA 163+55, 38.5' RT
129-24-6

1" NMC,
(4)#8 &
(2)#8 GND

C-10-(5,7)(6)
STA 164+47, 42.5' RT
129-24-6

2" NMC,
(2)#6, (3)#4, (2)#8, & (1)#6 GND

C-14-(5,7)(6)
STA 166+30, 42.5' RT
129-24-6

PB-16
STA 167+35, 41.0 RT

2" NMC,
(2)#6, (3)#4, (2)#8, & (1)#6 GND

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

RRFB EQUIPPED POLE.
SEE SIGNING PLANS

C-12-(5,7)(8)
STA 165+13, 42.5' RT
129-24-6

C-6-(5,7)(8)
STA 349+00, 23.5' RT
52-16-4

2" NMC,
(4)#6, (6)#4,
& (2)#6 GND

PB-18
STA 168+26, 42.1 RT

C-18-(13,15)(14)
STA 358+88, 32.9' RT
129-24-6

STA 100+49, 29.8' LT
LIGHTING CONTROL CABINET "C"
120/240 VOLT, 1φ

EXISTING LIGHTING
CONTROL CABINET LCC-X-2

2" NMC,
(4)#6, (6)#4, (2)#8, & (2)#6 GND

C-5-(5,7)(6)
STA 348+50, 23.5' LT
52-16-4

C-16-(5,7)(8)
STA 358+43, 27.5' LT
129-24-6

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE

MATCHLINE STA 163+25

MATCHLINE STA 169+00

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 267 E

GENERAL LIGHTING NOTES:

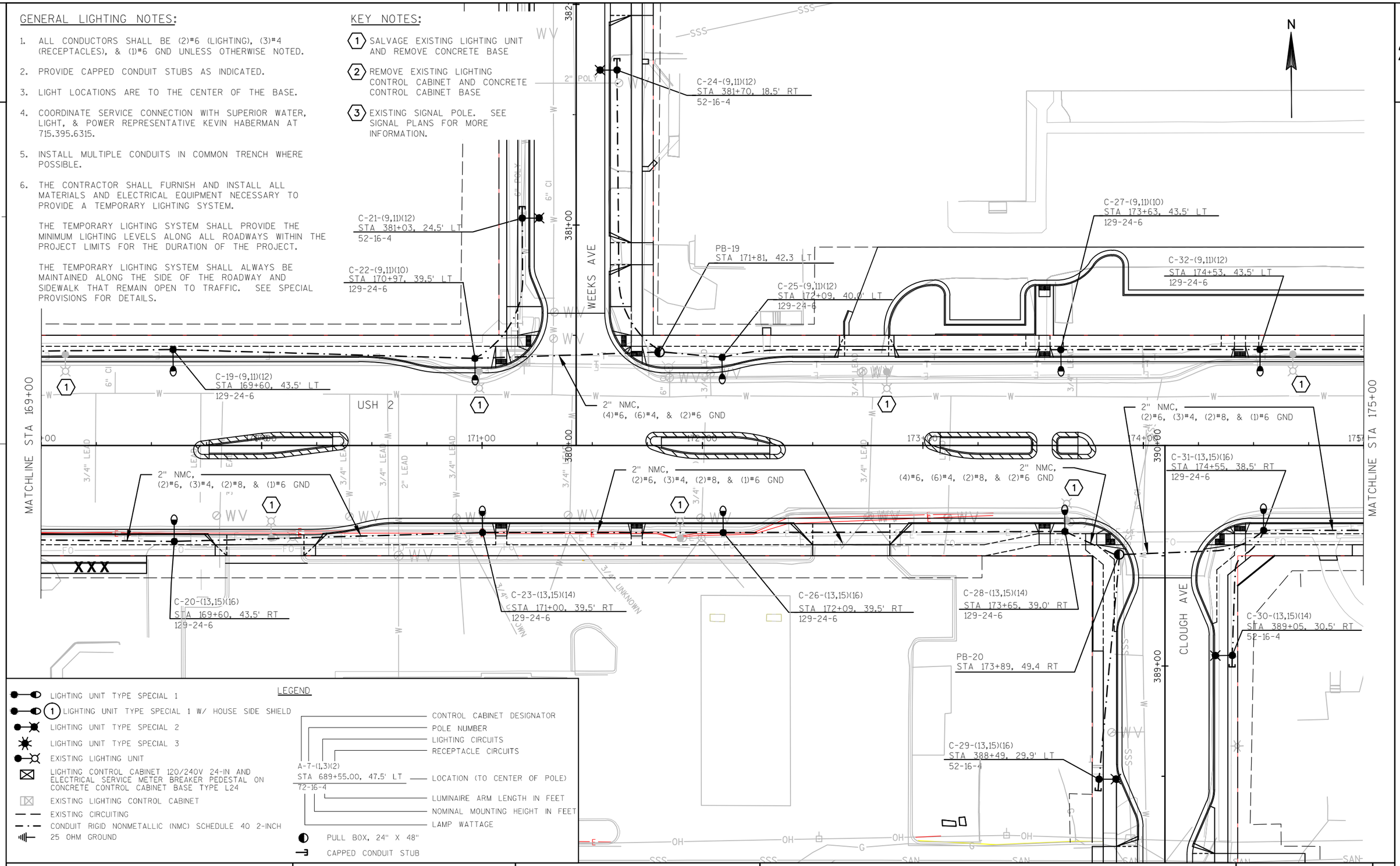
1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.



LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2) — CONTROL CABINET DESIGNATOR
STA 689+55.00, 47.5' LT — POLE NUMBER, LOCATION (TO CENTER OF POLE)
72-16-4 — LIGHTING CIRCUITS, RECEPTACLE CIRCUITS, LUMINAIRE ARM LENGTH IN FEET, NOMINAL MOUNTING HEIGHT IN FEET, LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 268 E

GENERAL LIGHTING NOTES:

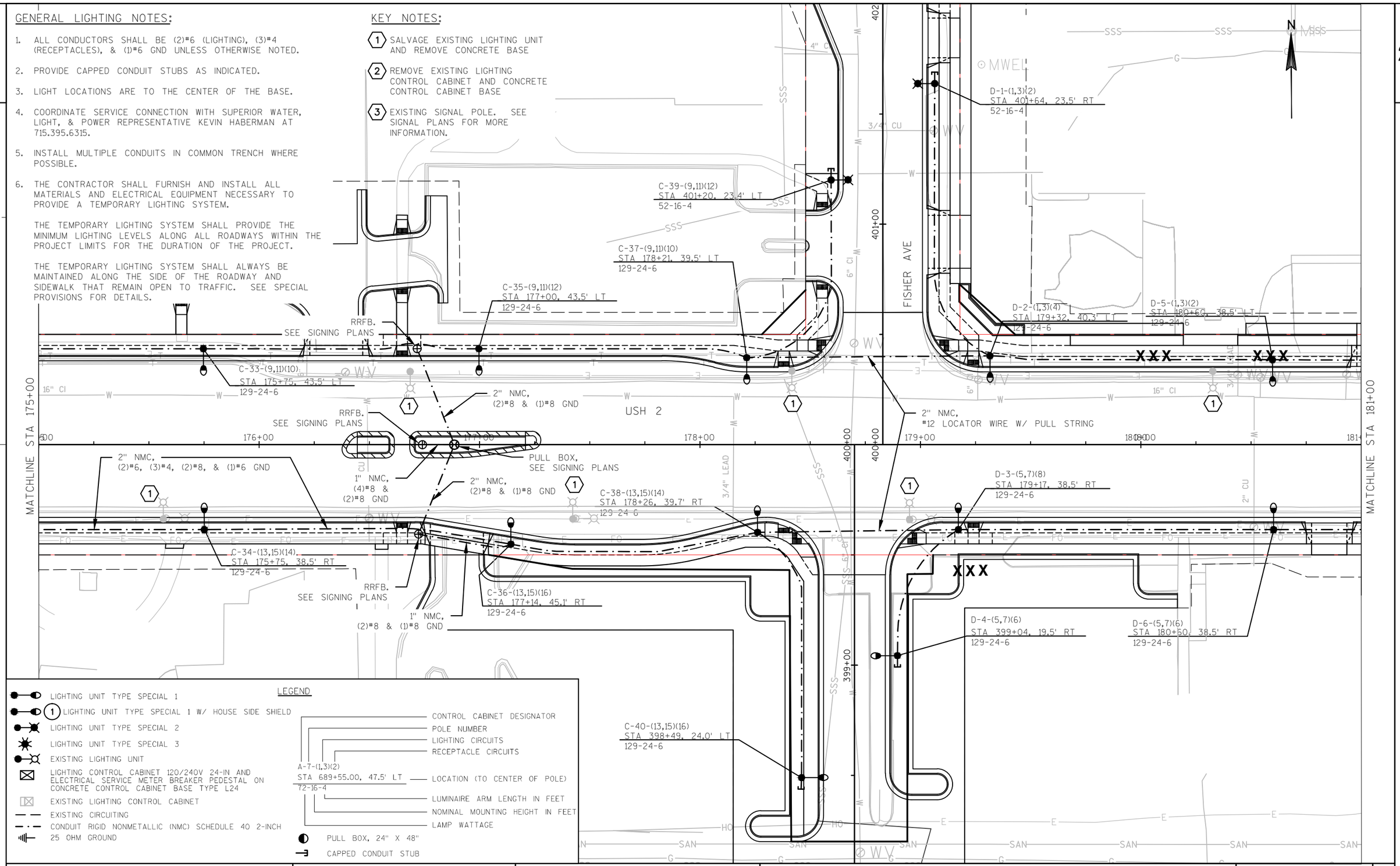
1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.



LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023501_LP.DWG
PLOT DATE : 11/7/2013 1:35 PM
PLOT BY : NICK ENGH
PLOT NAME : ---------- PLOT SCALE : 1 IN = 40FT_XREF_XREF
WISDOT/CADDS SHEET 42

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

D-7-(1,3)(2)
STA 411+65, 21.6' LT
52-16-4

D-9-(1,3)(4)
STA 410+86, 31.0' RT
52-16-4

PB-21
STA 182+01, 37.9 LT

3" NMC,
(6)#6,
(9)#4, &
(3)#6 GND

PB-23
STA 183+05, 38.5 LT

D-11-(1,3)(2)
STA 184+12, 38.6' LT
129-24-6

D-15-(1,3)(2)
STA 421+00, 23.0' LT
52-16-4

EXISTING LIGHTING
CONTROL CABINET LCC-X-3

D-13-(1,3)(4)
STA 185+28, 38.5' LT
129-24-6

D-16-(1,3)(4)
STA 421+53, 24.0' RT
52-16-4

D-17-(1,3)(2)
STA 186+28, 38.5' LT
129-24-6

USH 2

BIRCH AVE

CATLIN AVE

MATCHLINE STA 181+00

MATCHLINE STA 187+00

BP: 410+00.00

BP: 420+00.00

182+00 183+00 184+00 185+00 186+00

410+00 411+00 421+00

PI: 182+63.07

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

PB-22
STA 182+10, 42.6 RT

SEE LANDSCAPE PLANS FOR
CONNECTION TO UWS SIGN

1" NMC,
(2)#10 & (1)#10 GND

PB-32
STA 409+14, 37.3 LT

2" NMC,
(2)#10 & (1)#10 GND

INSTALL SALVAGED LIGHTING UNIT ON NEW CONCRETE LIGHT BASE TYPE SPECIAL. COORDINATE INSTALLATION SCHEDULE AND LOCATION WITH UWS STAFF

D-8-(5,7)(6)
STA 408+11, 44.0' LT
129-24-6

PB-24
STA 183+01, 42.7 RT

3" NMC,
(6)#6, (9)#4, & (3)#6 GND

D-10-(5,7)(8)
STA 408+95, 25.5' RT
129-24-6

D-12-(5,7)(6)
STA 184+15, 38.5' RT
129-24-6

D-14-(5,7)(8)
STA 185+30, 38.7' RT
129-24-6

D-18-(5,7)(6)
STA 186+28, 38.5' RT
129-24-6

409+00 408+00

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 270	E

GENERAL LIGHTING NOTES:

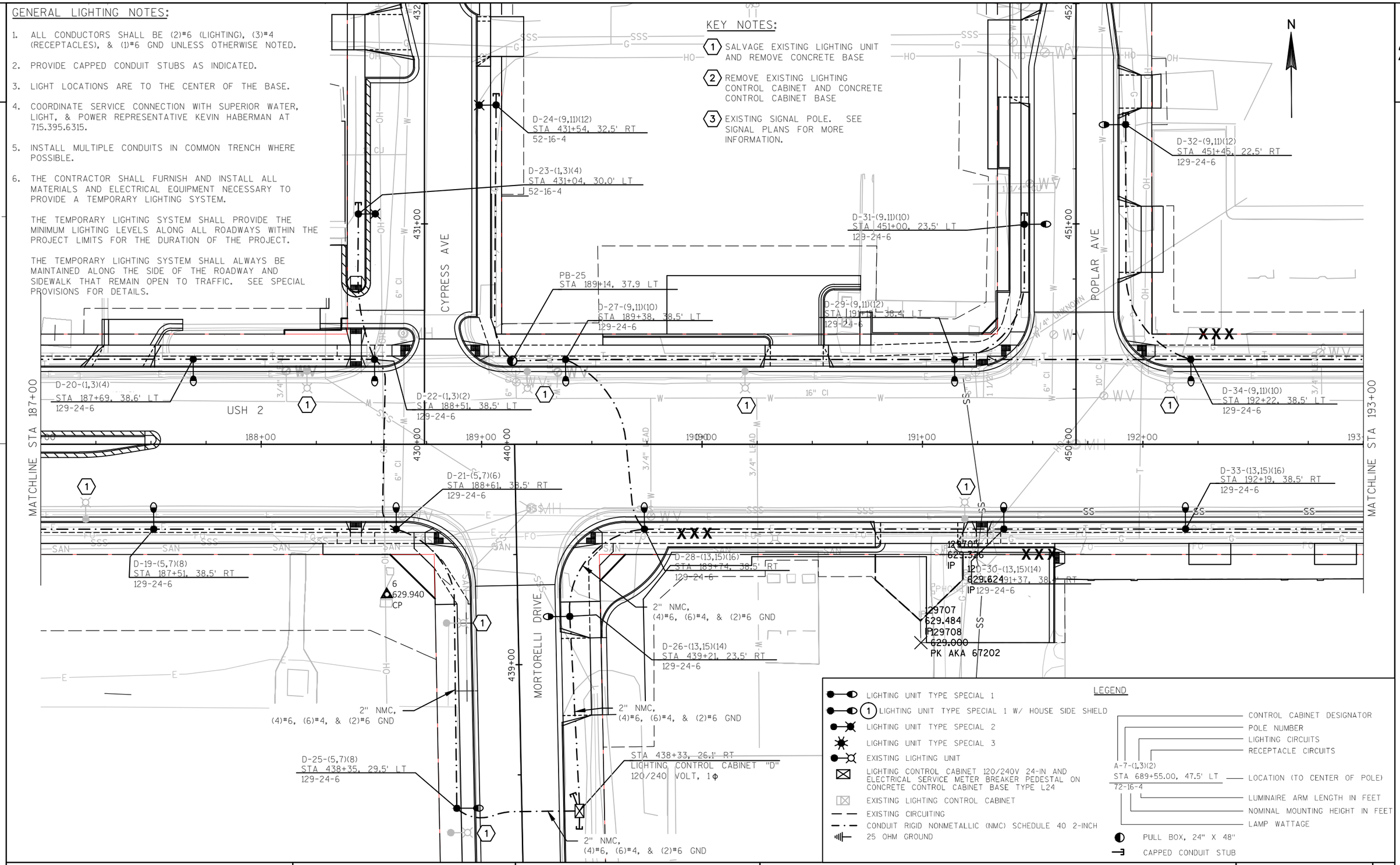
1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.



LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2) — CONTROL CABINET DESIGNATOR, POLE NUMBER, LIGHTING CIRCUITS, RECEPTACLE CIRCUITS
STA 689+55.00, 47.5' LT — LOCATION (TO CENTER OF POLE)
T2-16-4 — LUMINAIRE ARM LENGTH IN FEET, NOMINAL MOUNTING HEIGHT IN FEET, LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

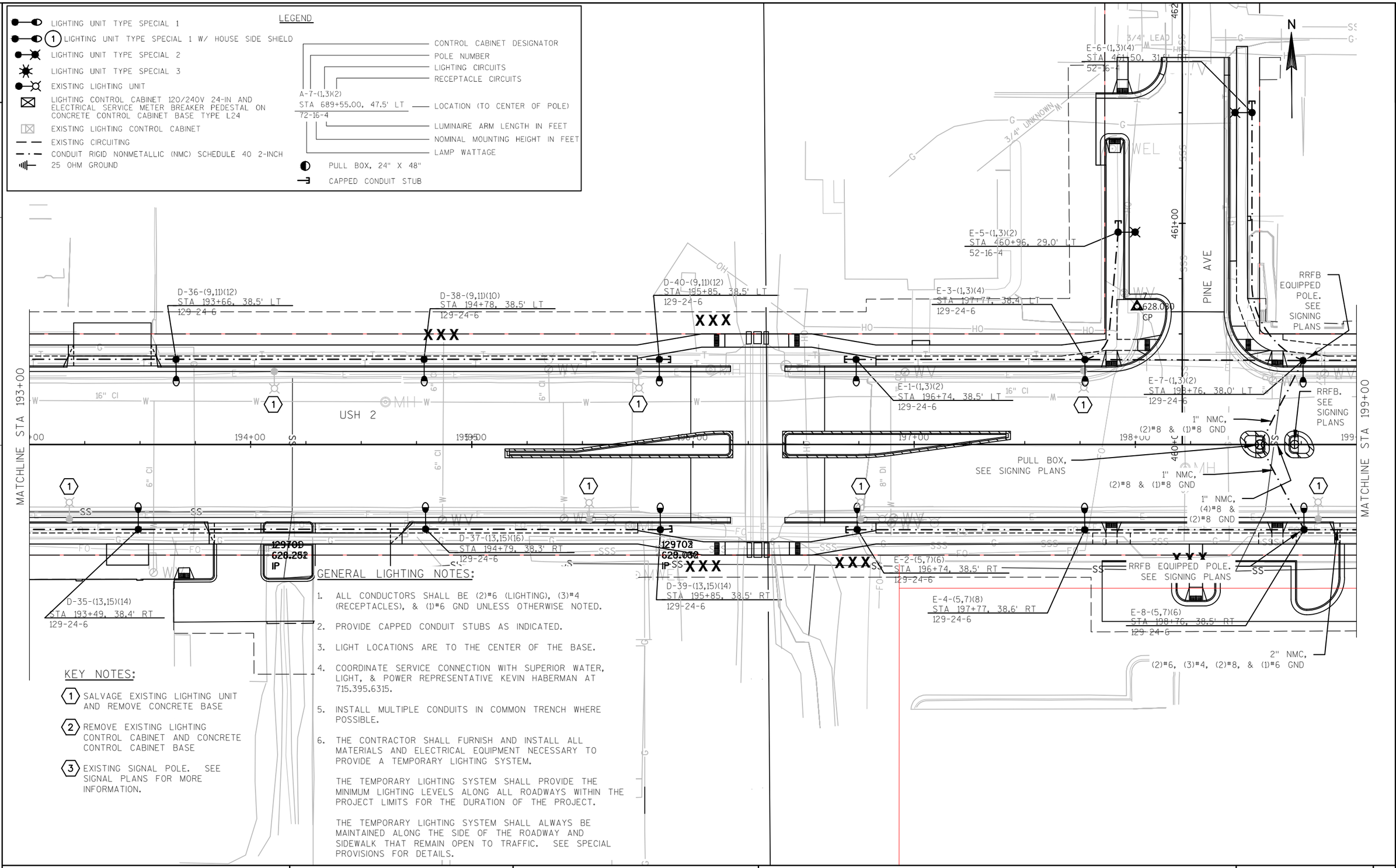
PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 271	E

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB



GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

KEY NOTES:

(1) SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE

(2) REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE

(3) EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 272	E

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

N

E-9-(1,3)(4)
STA 199+75, 38.5' LT
129-24-6

E-10-(5,7)(8)
STA 199+75, 38.5' RT
129-24-6

E-11-(1,3)(2)
STA 200+92, 38.5' LT
129-24-6

E-12-(5,7)(6)
STA 200+92, 38.5' RT
129-24-6

E-17-(1,3)(4)
STA 471+00, 17.5' LT
52-16-4

E-18-(9,11)(12)
STA 471+63, 17.5' RT
52-16-4

E-16-(9,11)(10)
STA 201+94, 38.5' LT
129-24-6

E-15-(13,15)(16)
STA 201+94, 38.5' RT
129-24-6

E-19-(9,11)(12)
STA 203+06, 38.5' LT
129-24-6

E-20-(13.15)(14)
STA 203+06, 38.5' RT
129-24-6

E-14-(13,15)(14)
STA 469+00, 21.6' RT
52-16-4

E-13-(5,7)(8)
STA 468+50, 21.5' LT
52-16-4

PB-26
STA 467+85, 20.8 LT

STA 467+84, 22.0' RT
LIGHTING CONTROL CABINET "E"
120/240 VOLT, 1ϕ

2" NMC,
(2)#6, (3)#4, (2)#8, & (1)#6 GND

2" NMC,
(4)#6, (6)#4, (2)#8, & (2)#6 GND

2" NMC,
(4)#6, (6)#4, (2)#8, & (2)#6 GND

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

MATCHLINE STA 199+00

MATCHLINE STA 204+00

USH 2

ELM AVE

199+00 200+00 201+00 202+00 203+00 204+00

510+00 511+00

469+00 468+00

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 273	E

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
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KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

E-24-(9,11)(10)
STA 481+50, 19.8' RT
52-16-4

E-23-(9,11)(12)
STA 480+90, 32.5' LT
52-16-4

CEDAR AVE

E-22-(9,11)(10)
STA 204+20, 38.4' LT
129-24-6

2" NMC,
(2)#6, (3)#4, (2)#10, (1)#6 GND & (1)#10 GND

E-28-(9,11)(12)
STA 205+41, 38.5' LT
129-24-6

E-30-(9,11)(10)
STA 206+72, 38.5' LT
129-24-6

PB-27
STA 204+62, 37.9 RT

E-27-(13,15)(14)
STA 205+20, 38.5' RT
129-24-6

E-29-(13,15)(16)
STA 206+44, 38.5' RT
129-24-6

PB-28
STA 207+73, 38.5' RT
129-24-6

E-21-(13,15)(16)
STA 204+20, 38.6' RT
129-24-6

E-26-(13,15)
STA 489+47, 25.7' RT
36-7-N/A

3/4" NMC,
(2)#10 & (1)#10 GND

E-25-(13,15)
STA 489+49, 26.1' LT
36-7-N/A

REMOVE EXISTING LUMINAIRE. FURNISH AND INSTALL NEW LIGHTING UNIT TYPE SPECIAL 3 ON EXISTING MONUMENT

E-31-(9,11)(12)
STA 500+81, 17.9' LT
129-24-6

3" NMC,
(6)#6, (9)#4, & (3)#6 GND

PB-29
STA 208+07, 51.3 LT

E-32-(9,11)(10)
STA 501+35, 19.2' RT
129-24-6

E-36-(9,11)(10)
STA 209+93, 38.7' LT
129-24-6

EXISTING LIGHTING CONTROL CABINET LCC-X-4

PB-31
STA 208+94, 45.6 LT

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

MATCHLINE STA 210+00

E-35-(13,15)(16)
STA 209+92, 41.2' RT
129-24-6

PB-30
STA 208+69, 47.7 RT

2" NMC,
(4)#6, (6)#4, & (2)#6 GND

E-34-(13,15)(16)
STA 499+24, 26.2' RT
129-24-6

E-33-(13,15)(14)
STA 498+49, 25.7' RT
129-24-6

MATCHLINE STA 204+00

HILL AVE

519+21

LEGEND

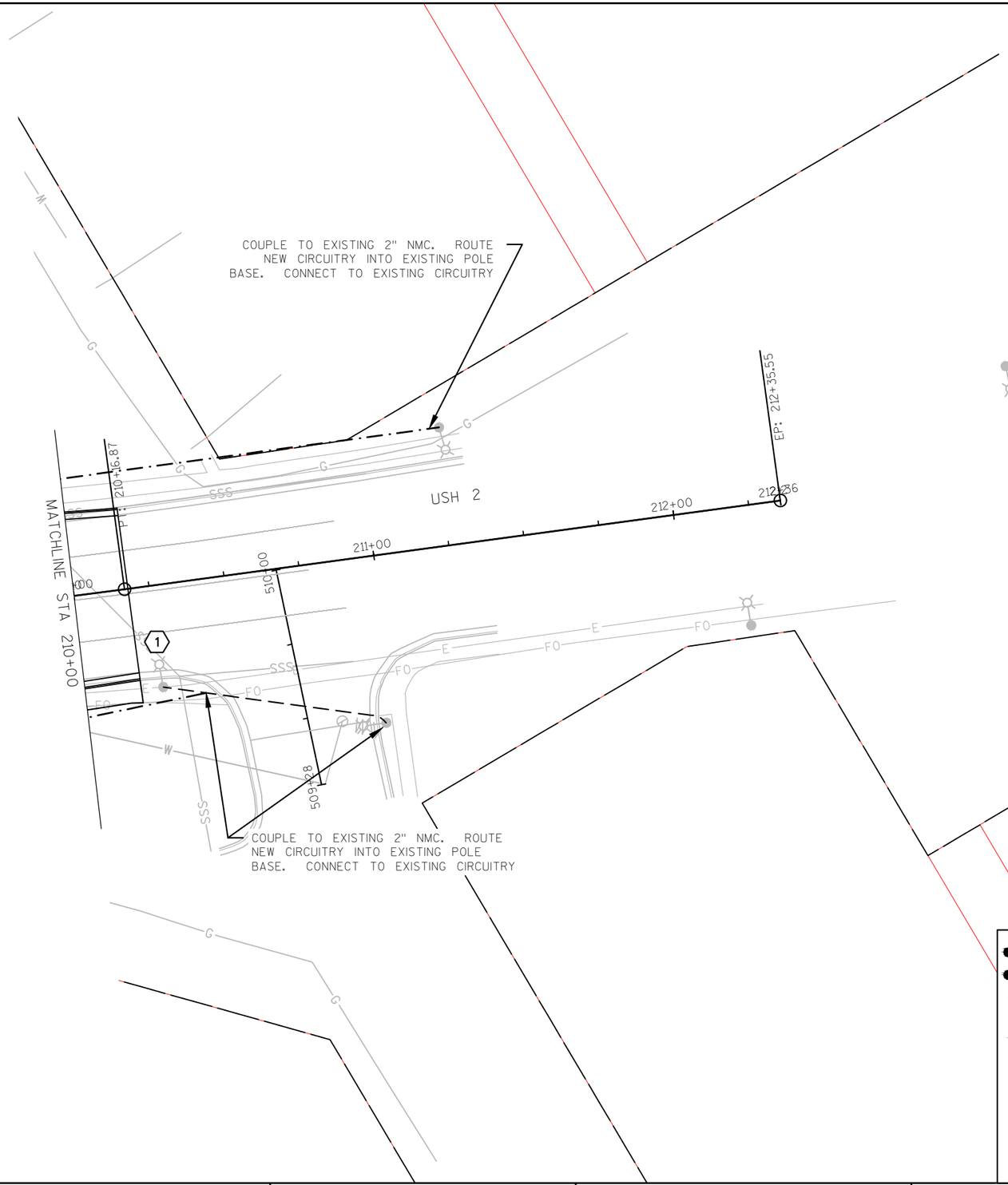
- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE

- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 274	E



N

KEY NOTES:

1. SALVAGE EXISTING LIGHTING UNIT AND REMOVE CONCRETE BASE
2. REMOVE EXISTING LIGHTING CONTROL CABINET AND CONCRETE CONTROL CABINET BASE
3. EXISTING SIGNAL POLE. SEE SIGNAL PLANS FOR MORE INFORMATION.

GENERAL LIGHTING NOTES:

1. ALL CONDUCTORS SHALL BE (2)#6 (LIGHTING), (3)#4 (RECEPTACLES), & (1)#6 GND UNLESS OTHERWISE NOTED.
2. PROVIDE CAPPED CONDUIT STUBS AS INDICATED.
3. LIGHT LOCATIONS ARE TO THE CENTER OF THE BASE.
4. COORDINATE SERVICE CONNECTION WITH SUPERIOR WATER, LIGHT, & POWER REPRESENTATIVE KEVIN HABERMAN AT 715.395.6315.
5. INSTALL MULTIPLE CONDUITS IN COMMON TRENCH WHERE POSSIBLE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND ELECTRICAL EQUIPMENT NECESSARY TO PROVIDE A TEMPORARY LIGHTING SYSTEM.

   THE TEMPORARY LIGHTING SYSTEM SHALL PROVIDE THE MINIMUM LIGHTING LEVELS ALONG ALL ROADWAYS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

   THE TEMPORARY LIGHTING SYSTEM SHALL ALWAYS BE MAINTAINED ALONG THE SIDE OF THE ROADWAY AND SIDEWALK THAT REMAIN OPEN TO TRAFFIC. SEE SPECIAL PROVISIONS FOR DETAILS.

LEGEND

- LIGHTING UNIT TYPE SPECIAL 1
- (1) LIGHTING UNIT TYPE SPECIAL 1 W/ HOUSE SIDE SHIELD
- LIGHTING UNIT TYPE SPECIAL 2
- LIGHTING UNIT TYPE SPECIAL 3
- EXISTING LIGHTING UNIT
- LIGHTING CONTROL CABINET 120/240V 24-IN AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE TYPE L24
- EXISTING LIGHTING CONTROL CABINET
- EXISTING CIRCUITING
- CONDUIT RIGID NONMETALLIC (NMC) SCHEDULE 40 2-INCH
- 25 OHM GROUND

A-7-(1,3)(2)
STA 689+55.00, 47.5' LT
72-16-4

- CONTROL CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUITS
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH IN FEET
- NOMINAL MOUNTING HEIGHT IN FEET
- LAMP WATTAGE
- PULL BOX, 24" X 48"
- CAPPED CONDUIT STUB

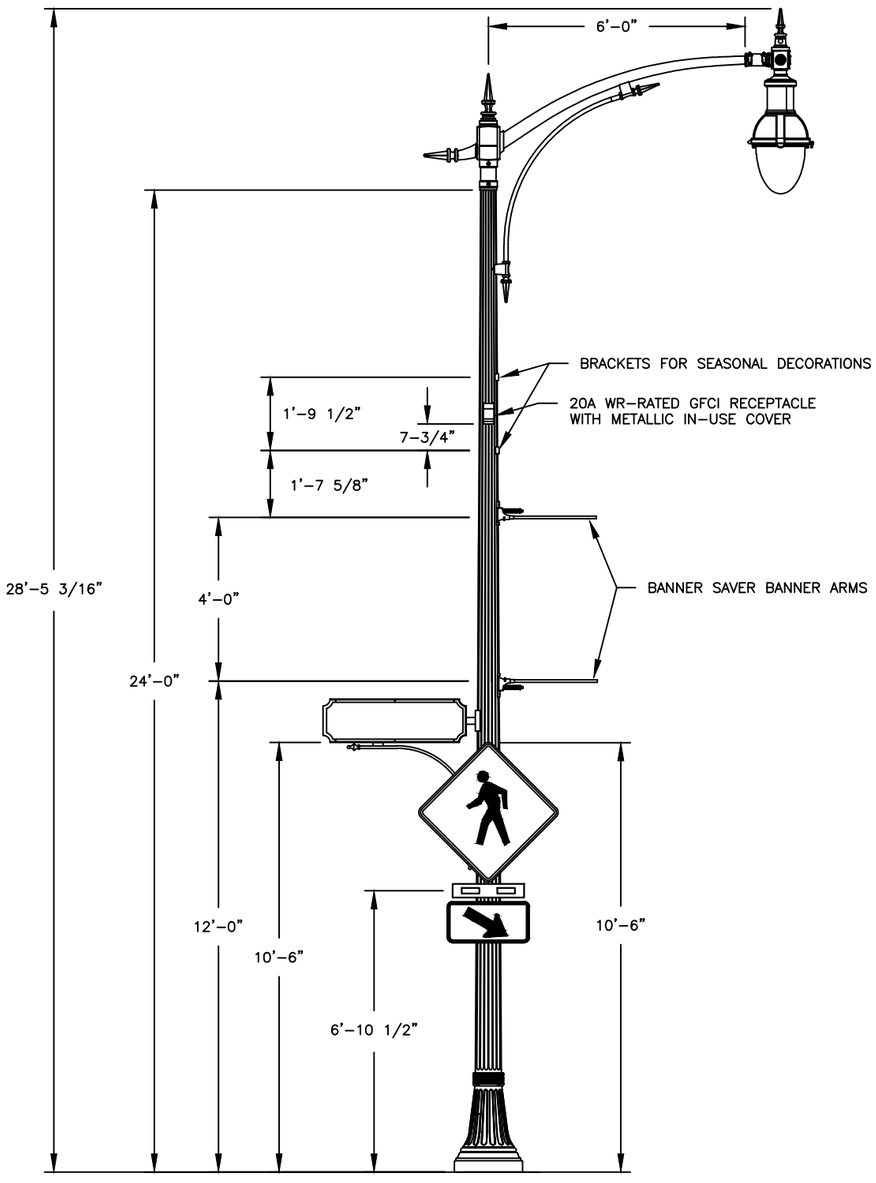
PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	LIGHTING PLAN	SHEET 275	E

2

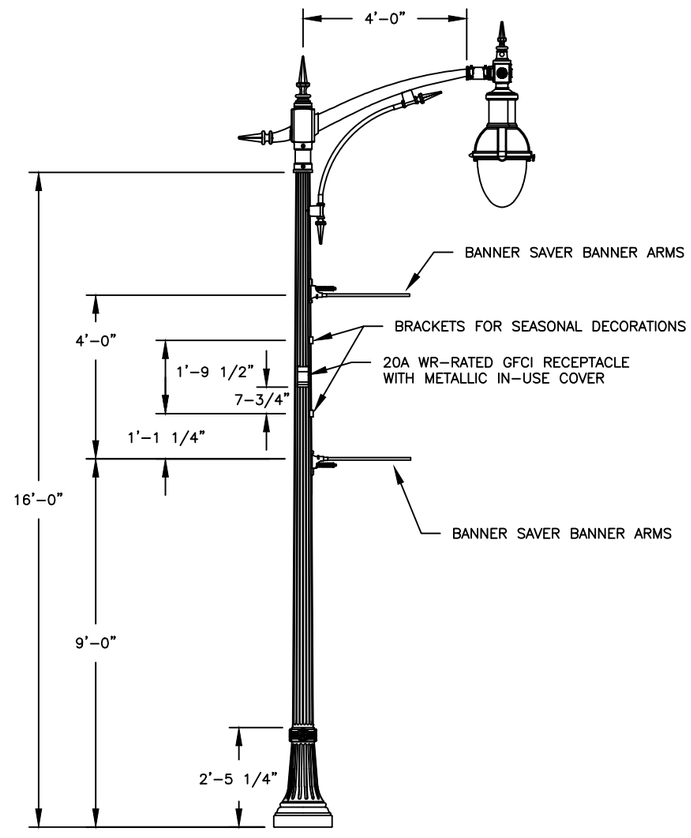
EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	LAMP SOURCE	MOUNTING	OPTICS	MANUFACTURER & SERIES #
	LIGHTING UNIT TYPE SPECIAL 1 TEARDROP STYLE LED LUMINAIRE ON TAPERED FLUTED ALUMINUM POLE W/ BANNER ARMS AND 20A WR-RATED GFCI RECEPTACLE W/ METTALLIC IN-USE COVER	129 WATT 80 LED 4000K	24' POLE ON LIGHT FOUNDATION TYPE SPECIAL	TYPE III	LUMEC – LUMINAIRE: RN20-135W80LED4K-R-GL-LE3R-240-SMA-BKTX LUMINAIRE: RN20-135W80LED4K-R-GL-LE3R-240-SMA-HS-BKTX* ARM: AR6-1-BKTX HAPCO – POLE: B27023-BA
	LIGHTING UNIT TYPE SPECIAL 2 TEARDROP STYLE LED LUMINAIRE ON TAPERED FLUTED ALUMINUM POLE W/ BANNER ARMS AND 20A WR-RATED GFCI RECEPTACLE W/ METTALLIC IN-USE COVER	52 WATT 32 LED 4000K	16' POLE ON LIGHT FOUNDATION TYPE SPECIAL	TYPE III	LUMEC – LUMINAIRE: RN20-55W32LED4K-R-GL-LE3R-240-SMA-BKTX ARM: AR4-1-BKTX HAPCO – POLE: B27024-BA
	LIGHTING UNIT TYPE SPECIAL 3 ACORN STYLE LED LUMINAIRE MOUNTED ON EXISTING MONUMENT	36 WATT 32 LED 4000K	ON EXISTING MONUMENT	TYPE V	LUMEC – LUMINAIRE: S55-35W32LED4K-R-GL-LE5-240-SFX-FN10-BKTX

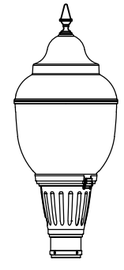
*NOTE: LUMINAIRE IS EQUIPPED WITH HOUSE-SIDE SHIELD. INSTALL AT LOCATIONS AS DESIGNATED IN THE PLANS WITH A (1).



LIGHTING UNIT TYPE SPECIAL 1 DETAIL



LIGHTING UNIT TYPE SPECIAL 2 DETAIL



LIGHTING UNIT TYPE SPECIAL 3 DETAIL

GENERAL NOTES

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER EXCEPT WHEN EXCAVATING WITHIN 18–INCHES OF UNDERGROUND UTILITIES. WHEN EXCAVATING WITHIN 18–INCHES OF UTILITIES THE BASE SHALL BE DUG BY HAND.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE PROVIDED BY POLE SUPPLIER. TWO GALVANIZED HEX NUTS & WASHERS PER ANCHOR BOLT.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) ANCHOR RODS BY POLE SUPPLIER. TWO GALVANIZED HEX NUTS & WASHERS PER ANCHOR BOLT.

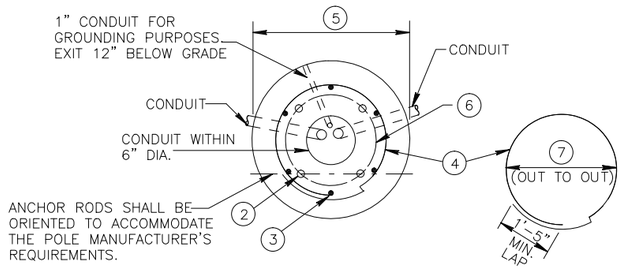
(3) (6) NO. 4 X 4'–8" BAR STEEL REINFORCEMENT.

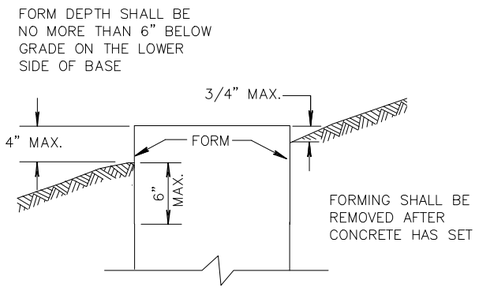
(4) (5) NO. 4 X 6'–2" BAR STEEL REINFORCEMENT @ 1'–0" C–C.

(5) 2'–0".

(6) BOLT CIRCLE PER POLE MANUFACTURER'S REQUIREMENTS.

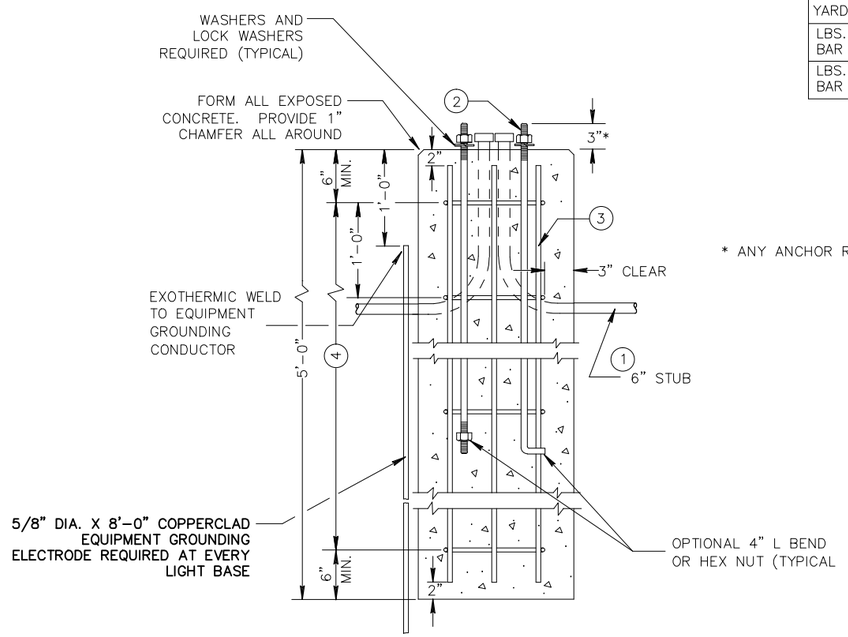
(7) 1'–6".





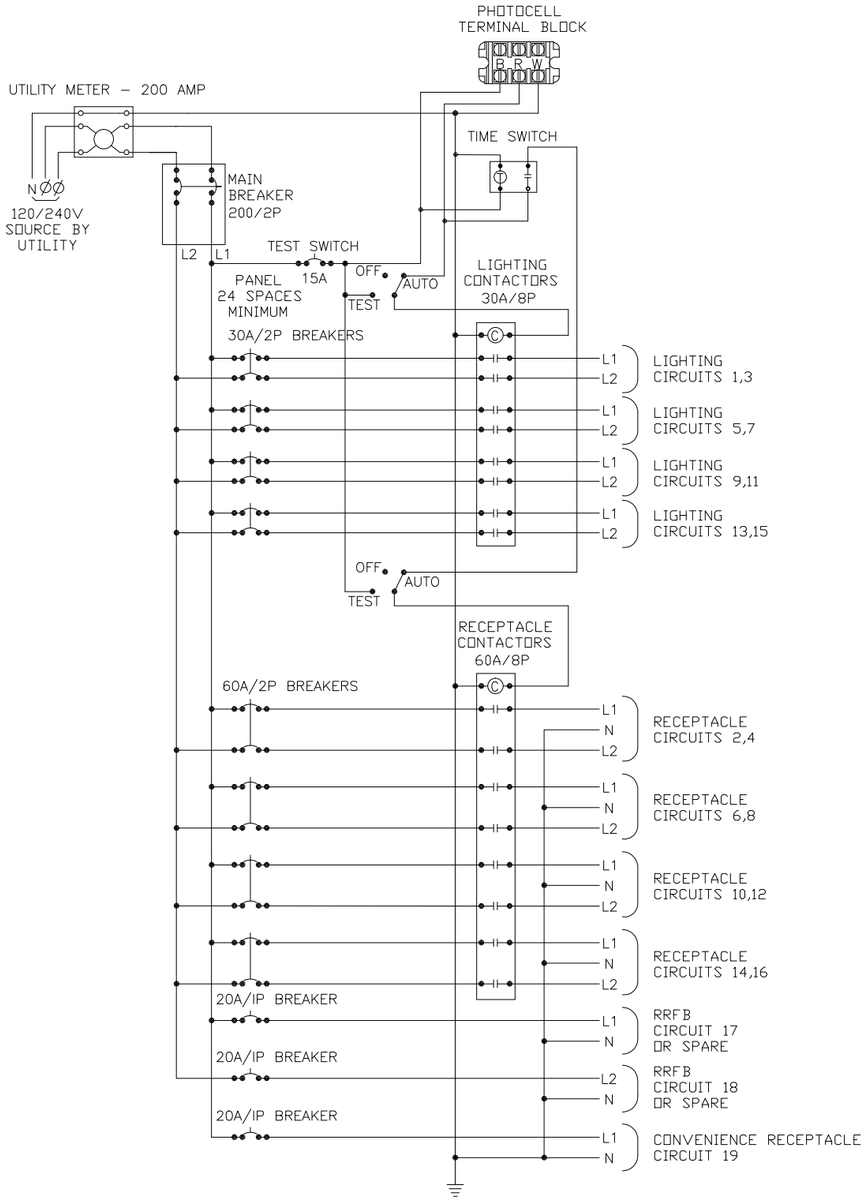
FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.6
LBS. OF HOOP BAR STEEL	21
LBS. OF VERTICAL BAR STEEL	18

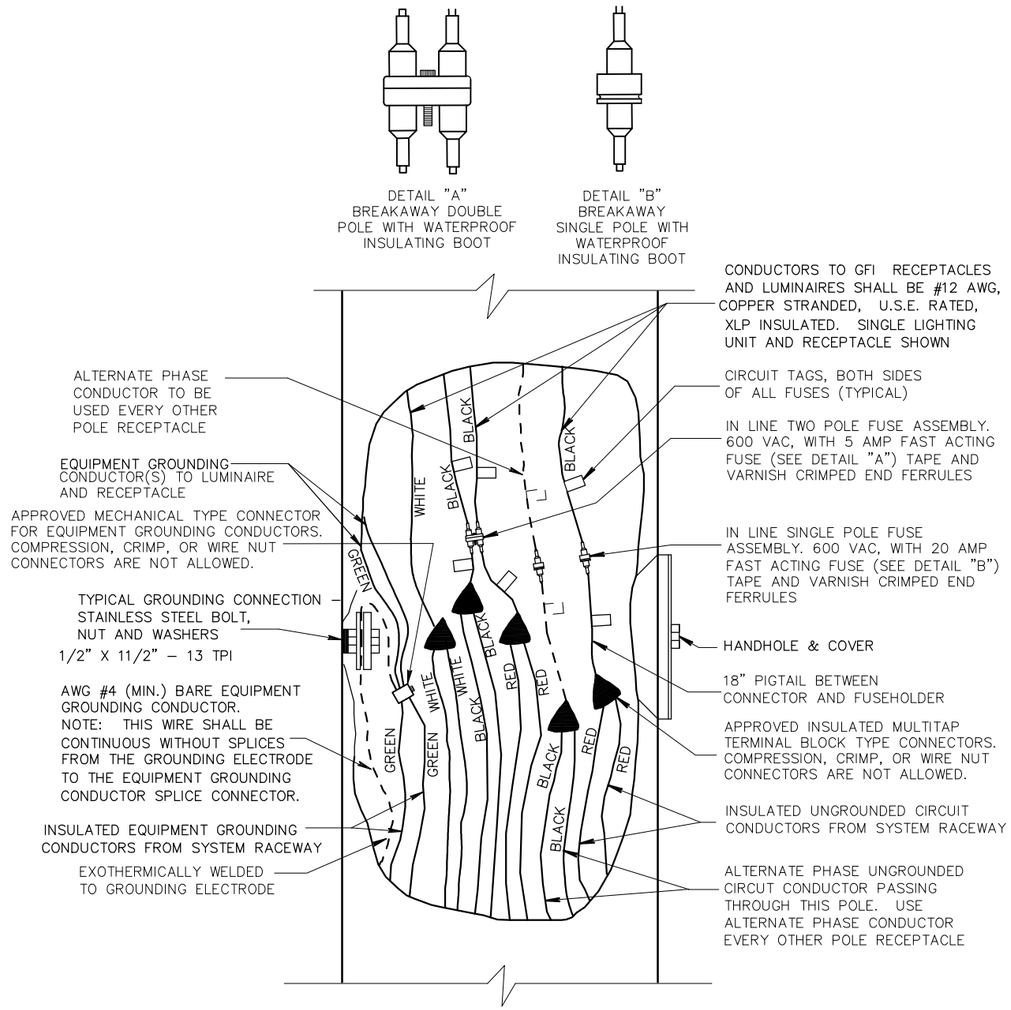


* ANY ANCHOR ROD PROJECTION SHALL BE PER MANUFACTURER'S REQUIREMENTS.

CONCRETE BASE TYPE SPECIAL

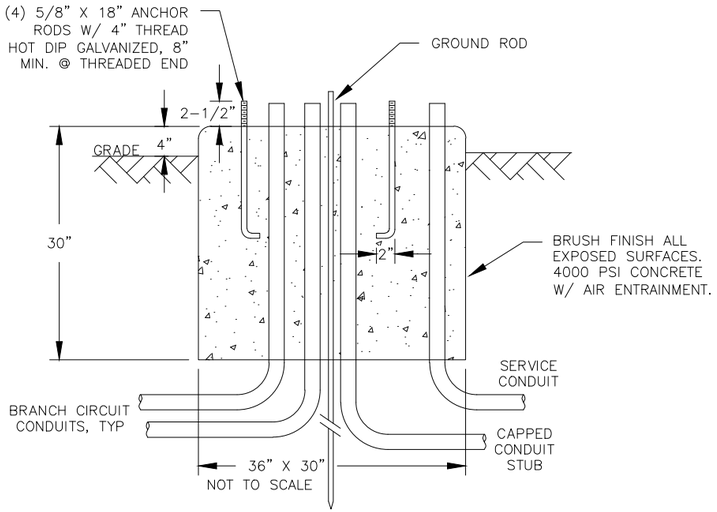


SERVICE CABINET "A", "B", "C", "D", & "E" SCHEMATIC

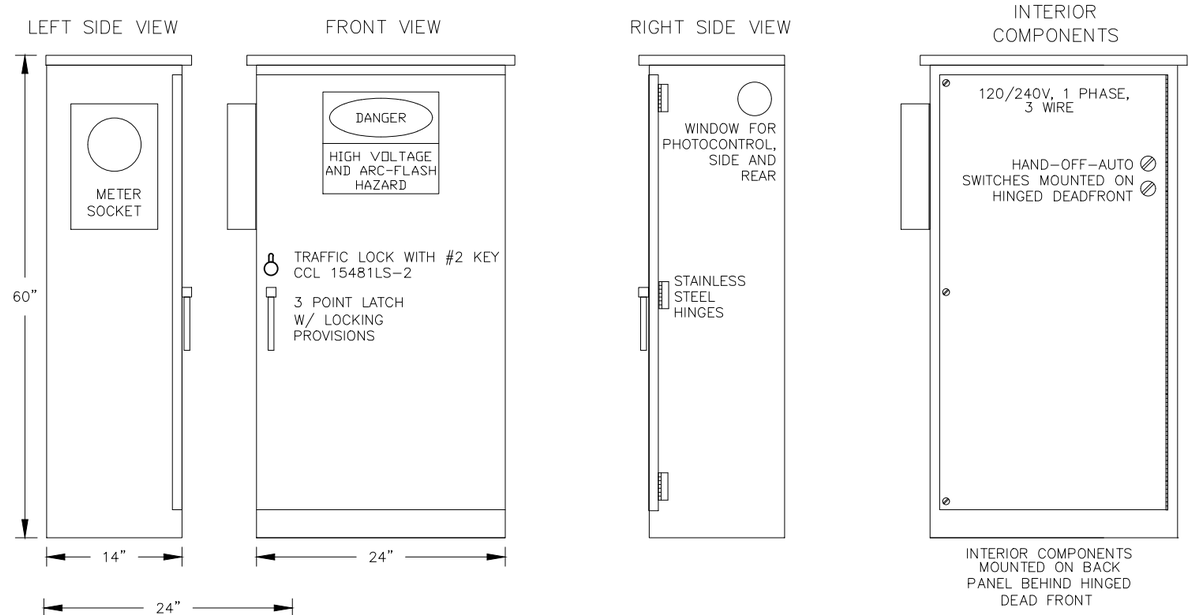


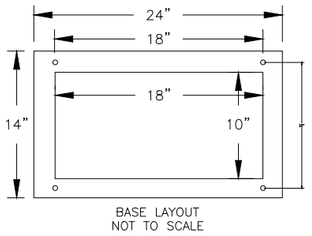
2 WIRE – 240 VAC (UNGROUNDED CONDUCTOR)
AND
3 WIRE – 120 VAC (UNGROUNDED CONDUCTOR)
WITH GROUNDED CONDUCTOR AND
WITH EQUIPMENT GROUNDING CONDUCTOR
FOR GFI RECEPTACLES

NOTE: REFER TO S.D.D. "NON–FREEWAY LIGHTING UNIT POLE WIRING" FOR FUSING INFORMATION



CONCRETE CONTROL CABINET BASE TYPE SPECIAL





CABINET CONSTRUCTION

- –NEMA 3R
- –INTERIOR COMPONENTS MOUNTED ON BACK PANEL BEHIND DEAD FRONT
- –1/8" ANODIZED ALUMINUM (DURANODIC BLACK)
- –NEOPRENE GASKETED DOORS
- –STAINLESS STEEL HARDWARE
- –ETL LISTED IN ACCORDANCE WITH UL508A

SERVICE CABINET NOTES:

A. PROVIDE METER SOCKET PER UTILITY COMPANY REQUIREMENTS.

B. CIRCUIT BREAKERS SHALL BE 120/240 VOLT AC, 60Hz AND SHALL BE CLEARLY MARKED WITH THE "ON" AND "OFF" POSITIONS AND IDENTIFIED WITH THE LOAD WHICH IT IS CARRYING.

C. SHORT CIRCUIT RATING – 22,000 AIC SYMMETRICAL.

D. 3–POSITION SELECTOR SWITCH ALLEN BRADLEY #800T–J2A.

E. CIRCUIT CONTACTORS SHALL HAVE A 240 VOLT RATING, WITH 120 VOLT COIL.

F. PROVIDE PANEL WITH DIMENSIONS AS REQUIRED TO FIT EQUIPMENT PROPOSED.

G. PROVIDE A 25–OHM GROUND AT CABINET AS PER NEC.

H. TIME CLOCK SHALL BE NEMA 3R WITH A CAPACITOR BACK–UP, AUTOMATIC DAYLIGHT SAVINGS TIME, AND LEAP YEAR ADJUSTMENTS. TORK, MODEL E101B.

I. PROVIDE 20A WR–RATED GFCI RECEPTACLE MOUNTED TO CABINET DEAD–FRONT.

J. BOTH PHOTOCONTROL AND ITS SOCKET SHALL BE 3 TERMINAL, POLARIZED, TWIST–LOCK TYPE. IT SHALL BE EQUIPPED WITH A MOVRO TYPE LIGHTNING ARRESTER.

K. CABINET SHALL BE MANUFACTURED BY POVOLNY SPECIALTIES INC. 651.452.7335.

L. COORDINATE SUPERIOR WATER LIGHT AND POWER SERVICE CONNECTIONS WITH KEVIN HABERMAN AT 715.395.6315.

LIGHTING CONTROL CABINET TYPE SPECIAL DETAILS

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

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USH 2 (BELKNAP STREET)

BANKS AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10

135+00 136+00 137+00 138+00 139+00 4+00 5+00 6+00 7+00

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 280	E

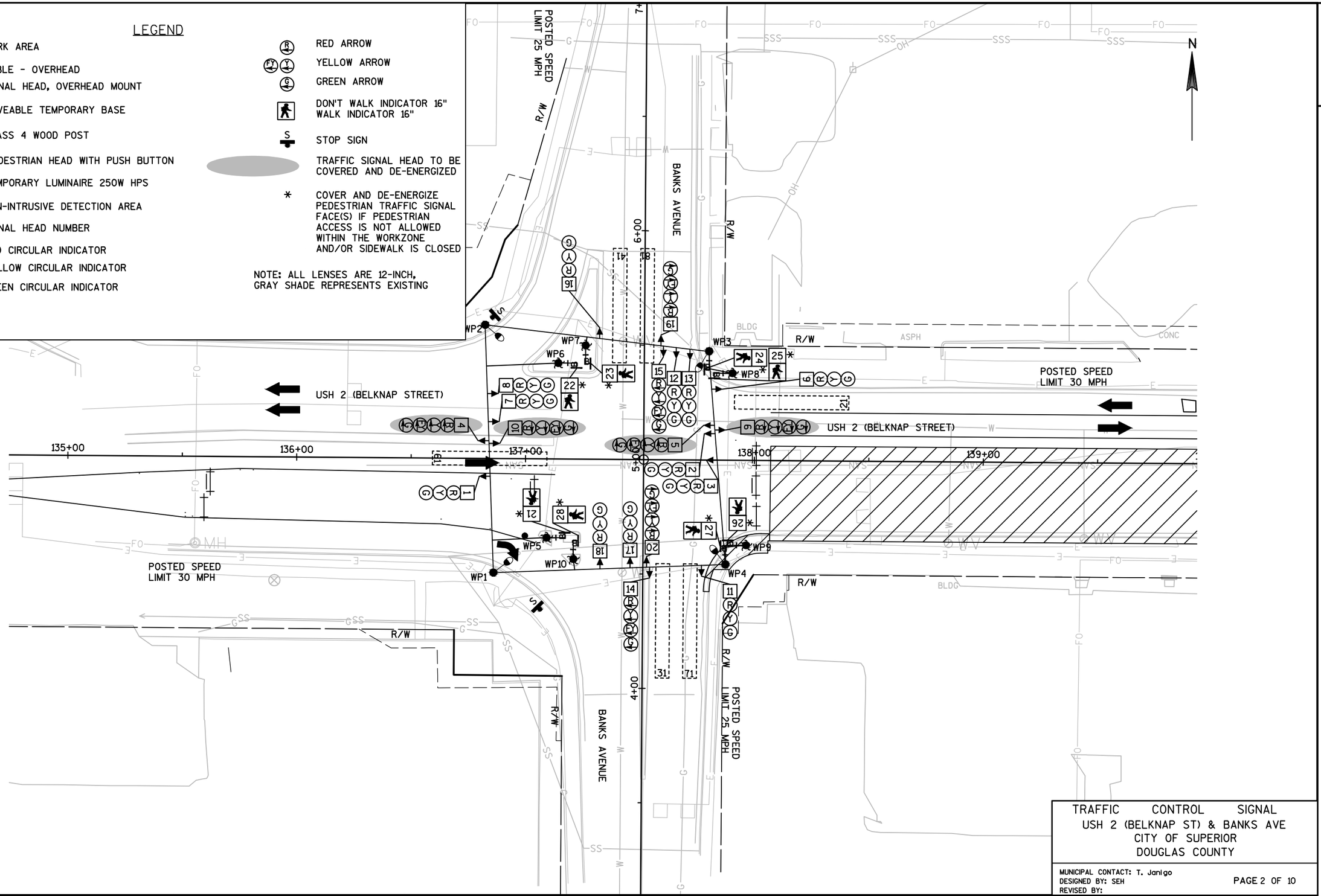
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 281	E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

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USH 2 (BELKNAP STREET)

BANKS AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10

135+00 136+00 137+00 138+00 139+00 4+00 5+00 6+00 7+00

R/W BLDG ASPH CONC

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 3 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 282	E

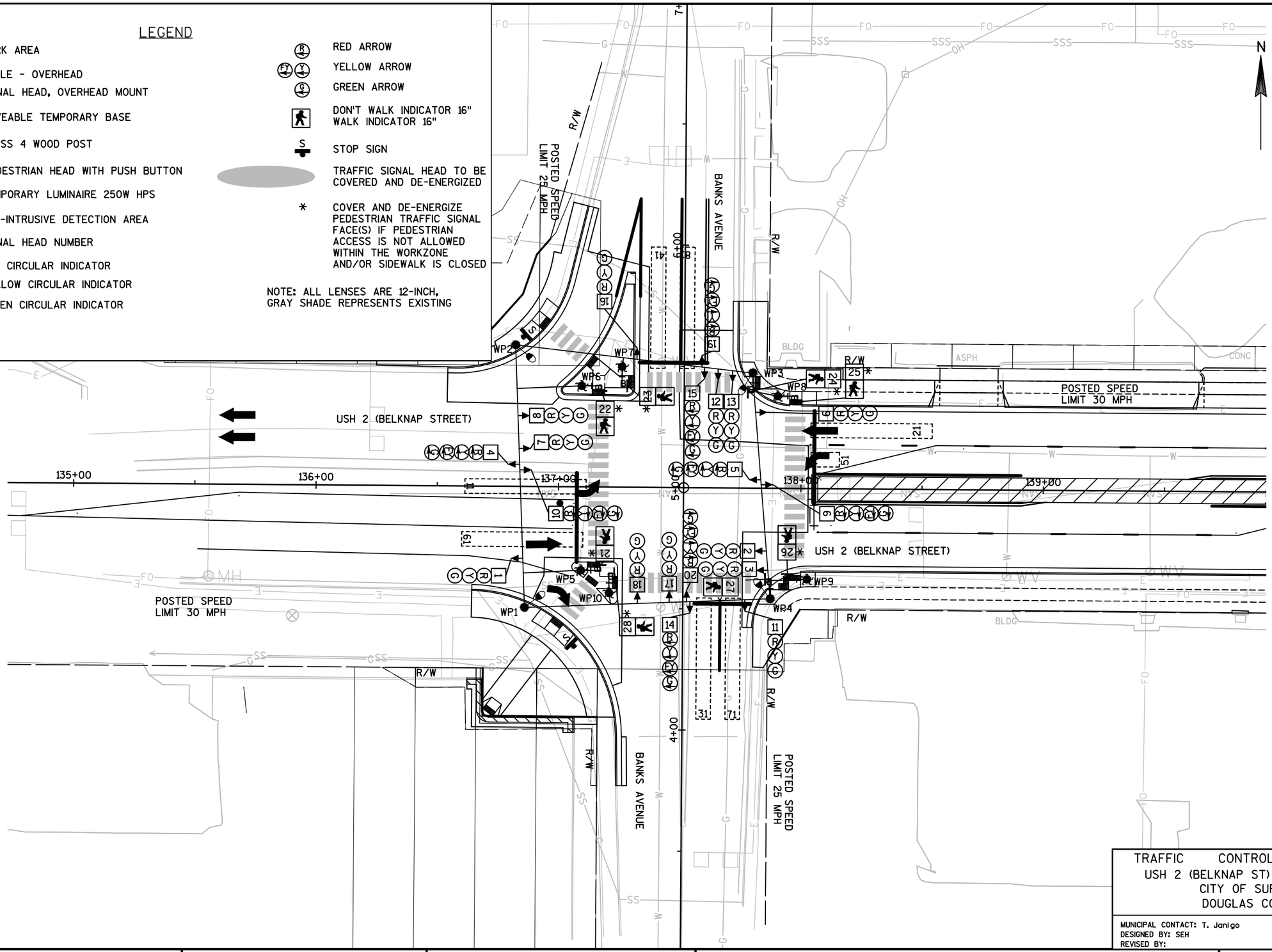
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- S STOP SIGN
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 4 OF 10

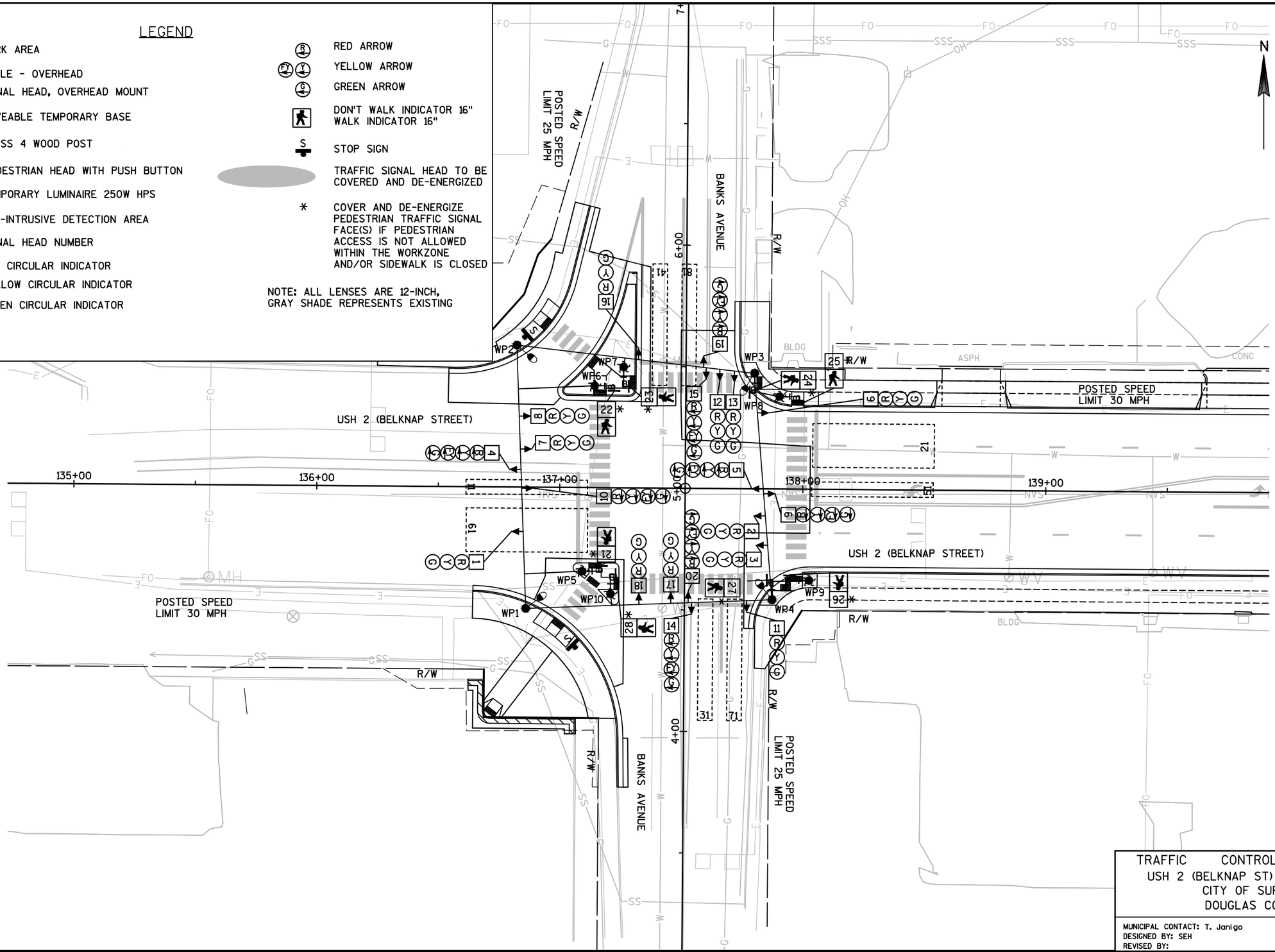
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 283	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023913_TS.DWG
PLOT DATE : 7/29/2016 9:03 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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- (Y) YELLOW CIRCULAR INDICATOR
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 5 OF 10

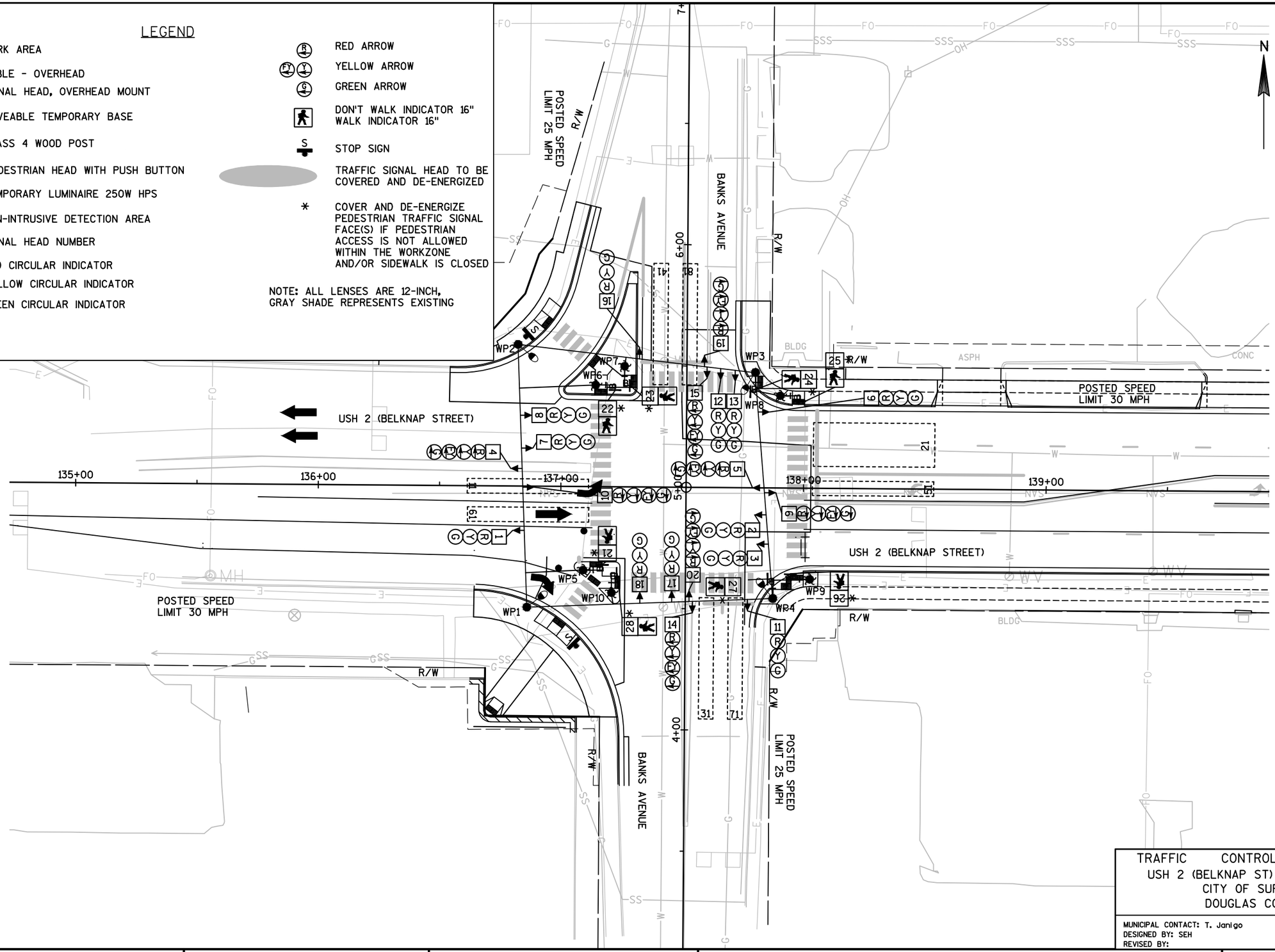
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 284	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023914_TS.DWG PLOT DATE : 7/29/2016 9:14 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 6 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 285	E

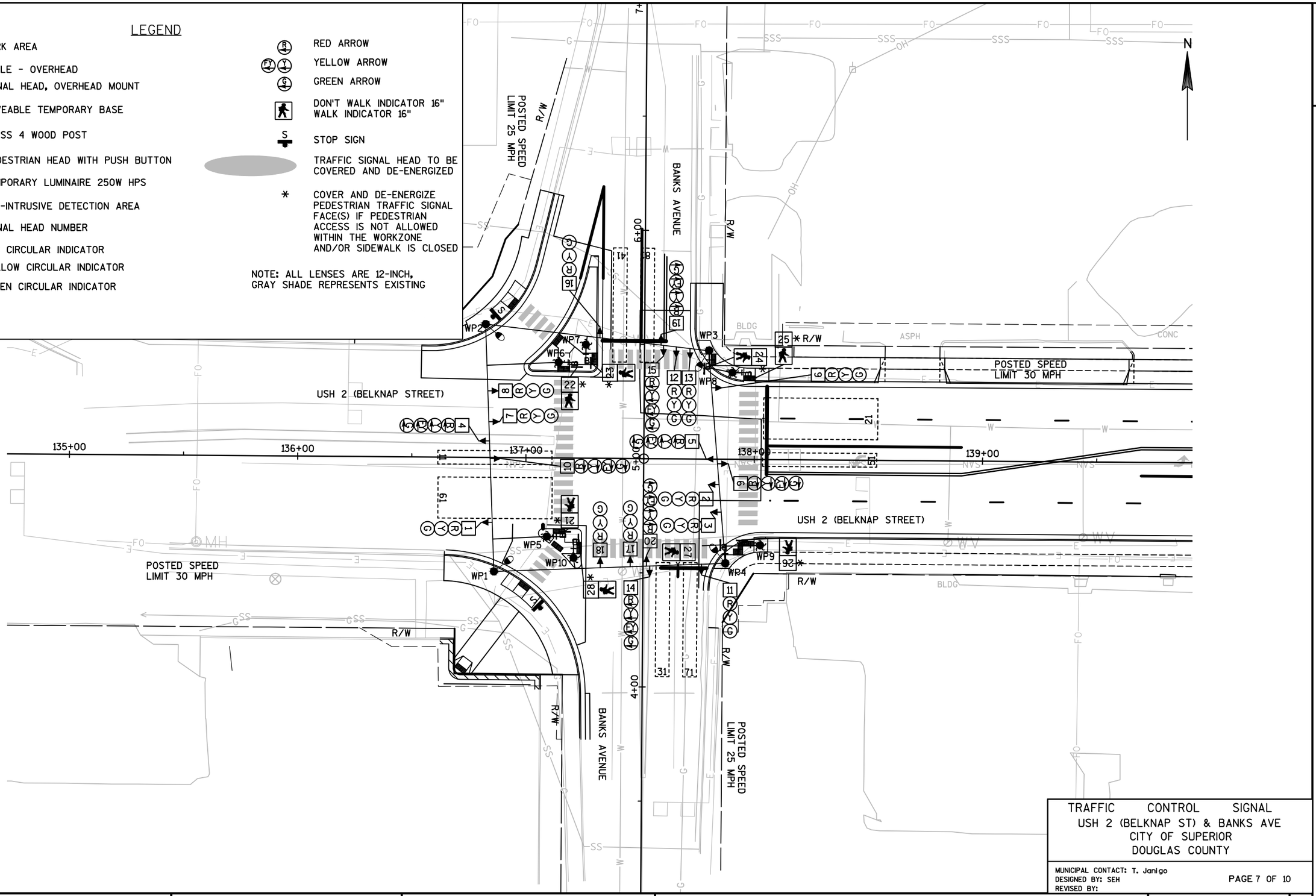
FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023915_TS.DWG PLOT DATE : 7/29/2016 8:28 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 7 OF 10

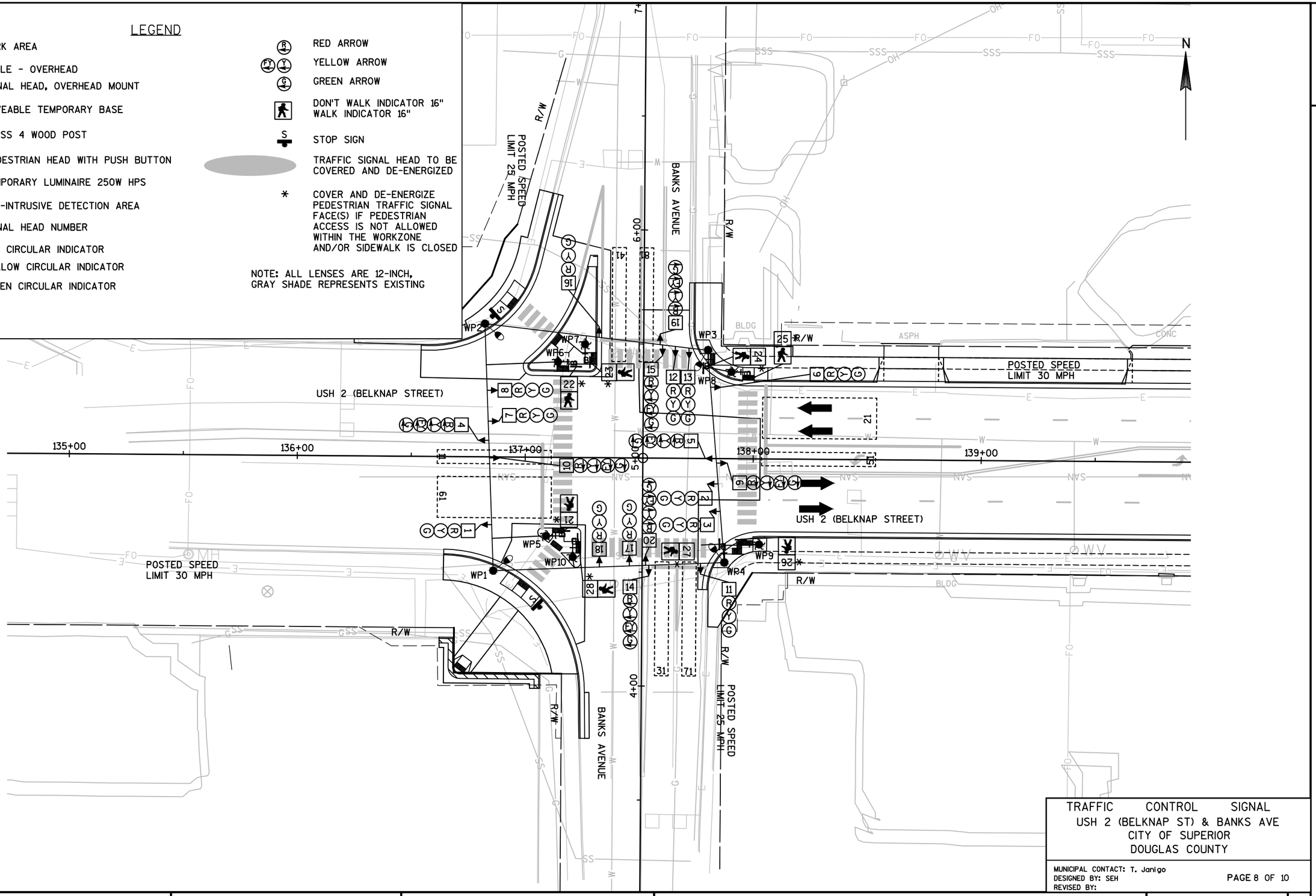
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023916_TS.DWG PLOT DATE : 7/29/2016 9:38 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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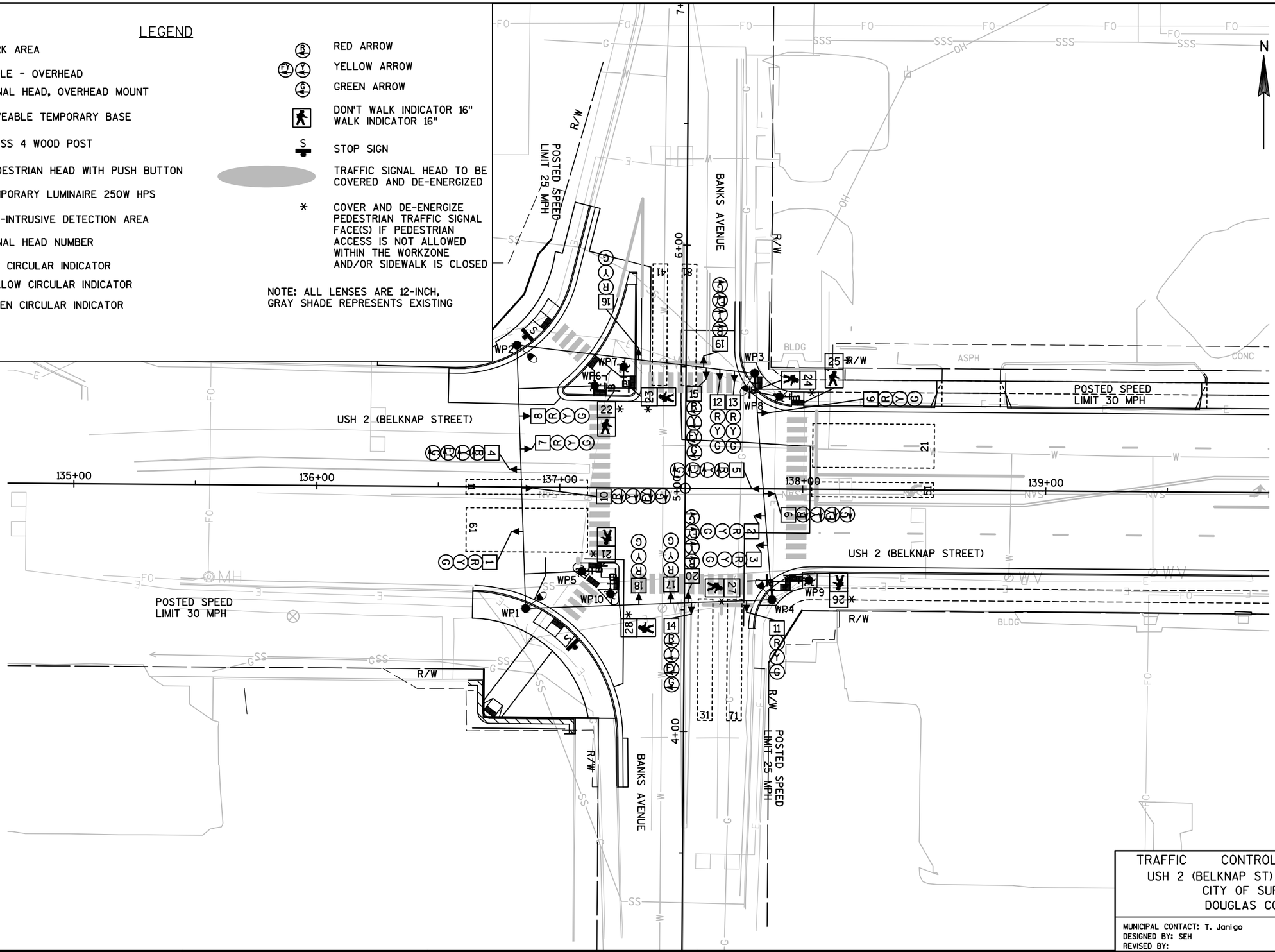
PAGE 8 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET 287 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 9 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET 288	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023918_TS.DWG PLOT DATE : 7/29/2016 9:25 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	- -	-	- -	-	- -	-	- -	-
Ø2	6,7,8	R	R R	G	Y R	R	R R	R	R R	R
Ø3	14,15	-	- -	-	- -	G ←	- -	-	- -	-
Ø4	16,17,18	R	R R	R	R R	R	R R	G	Y R	R
Ø5	9,10	-	- -	-	- -	-	- -	-	- -	-
Ø6	1,2,3	R	R R	R	R R	R	R R	R	R R	R
Ø7	11,12,13	R	R R	R	R R	R	R R	R	R R	R
Ø8	19,20	-	- -	-	- -	-	- -	-	- -	-
OLA	4,5	-	Y R	FY	Y R	R ←	R R ←	R ←	R R ←	R ←
OLB	14,15	R ←	R R ←	R ←	R R ←	-	Y R ←	FY ←	Y R ←	R ←
OLC	9,10	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←
OLD	11,12,13	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←
Ø2P	23,24	D	D D	*	D D	D	D D	D	D D	
Ø4P	21,22	D	D D	D	D D	D	D D	*	D D	
Ø6P	27,28	D	D D	D	D D	D	D D	D	D D	
Ø7P	25,26	D	D D	D	D D	D	D D	D	D D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	4,5	-	- -	-	- -	-	- -	-	- -
Ø2	6,7,8	R	R R	R	R R	R	R R	R	R R
Ø3	14,15	R	R R	R	R R	R	R R	R	R R
Ø4	16,17,18	R	R R	R	R R	R	R R	R	R R
Ø5	9,10	G ←	- -	-	- -	-	- -	-	- -
Ø6	1,2,3	R	R R	G	Y R	R	R R	R	R R
Ø7	11,12,13	R	R R	R	R R	G	Y R	R	R R
Ø8	19,20		- -	-	- -	-	- -	G ←	- -
OLA	4,5	R ←	R R ←	R ←	R R ←	R	R R	R ←	R R ←
OLB	14,15	R ←	R R ←	R ←	R R ←	R	R R	R ←	R R ←
OLC	9,10	-	Y R ←	FY ←	Y R ←	R	R R	R ←	R R ←
OLD	11,12,13	R ←	R R ←	R ←	R R ←	FY ←	Y R ←	-	Y R ←
Ø2P	23,24	D	D D	D	D D	D	D D	D	D D
Ø4P	21,22	D	D D	D	D D	D	D D	D	D D
Ø6P	27,28	D	D D	*	D D	D	D D	D	D D
Ø7P	25,26	D	D D	D	D D	*	D D	D	D D

FY=FLASHING YELLOW

BARRIER

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
31		X			3	3			
41		X			4	4			
51		X			5	5			
61		X			6	6			
71		X			7	7			
81		X			8	8			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3		7		X
4		7		X
5		2		X
6		2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB	3	4
OLC	5	6
OLD	8	7

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7	1,2,4,5,6,8
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	4	1,2,3,5,6,7

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE Ø6/16

FILE NAME : ...\Temp S00\023929_Temp_SP_PH.dgn PLOT DATE : 5/27/2016 11:20:09 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

N

USH 2 (BELKNAP STREET)
STH 35 (TOWER AVENUE)
POSTED SPEED LIMIT 30 MPH
POSTED SPEED LIMIT 35 MPH
R/W
BLDG
CONC
139+00
140+00
141+00
142+00
143+00
00+689
00+889
00+089
00+189
WP1
WP2
WP3
WP4
WP5
WP6
WP7
WP8
WP9
WP10

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:
PAGE 1 OF 10

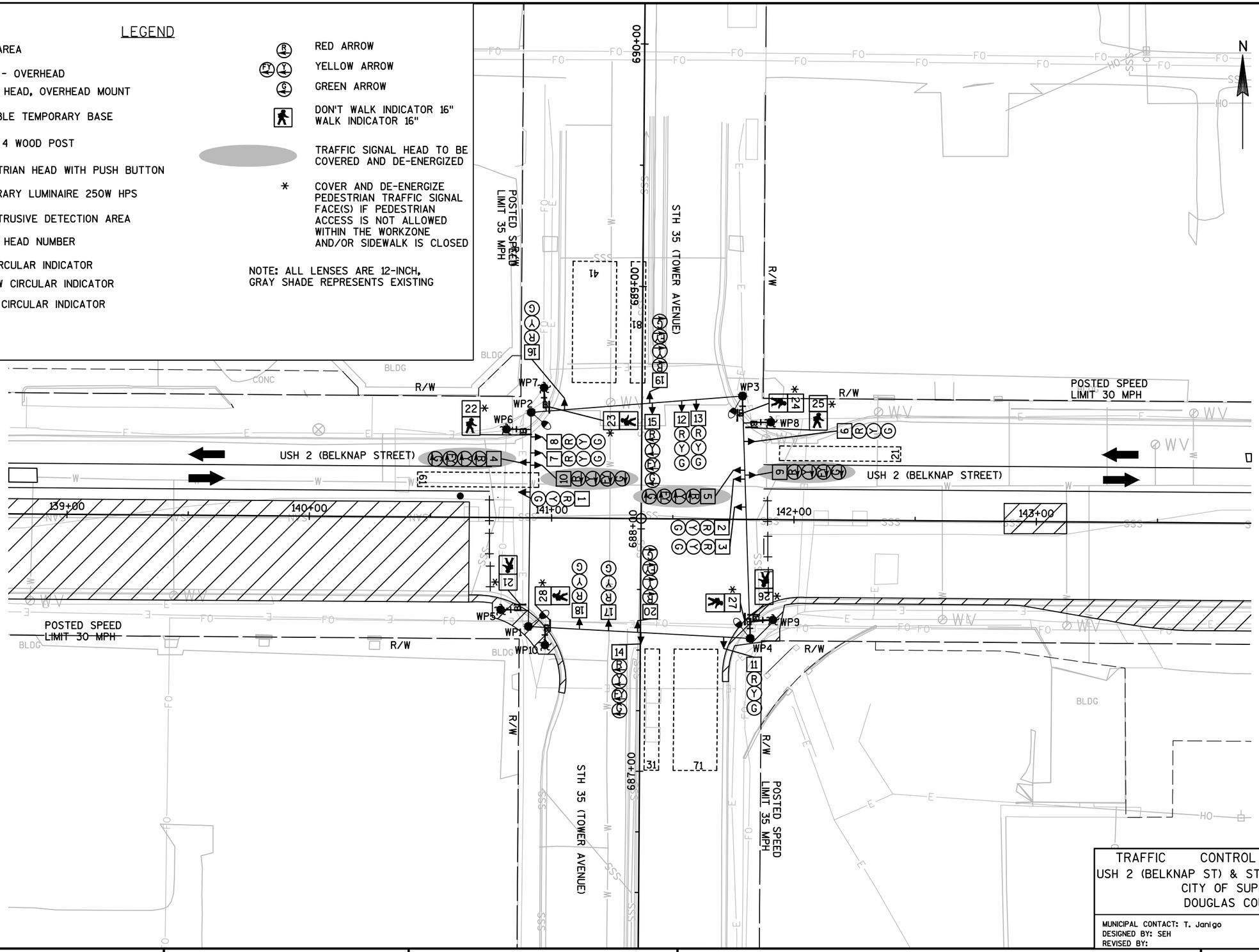
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 290	E

FILE NAME : Y:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023910_TS.DWG
PLOT DATE : 7/28/2016 4:44 PM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 291 E

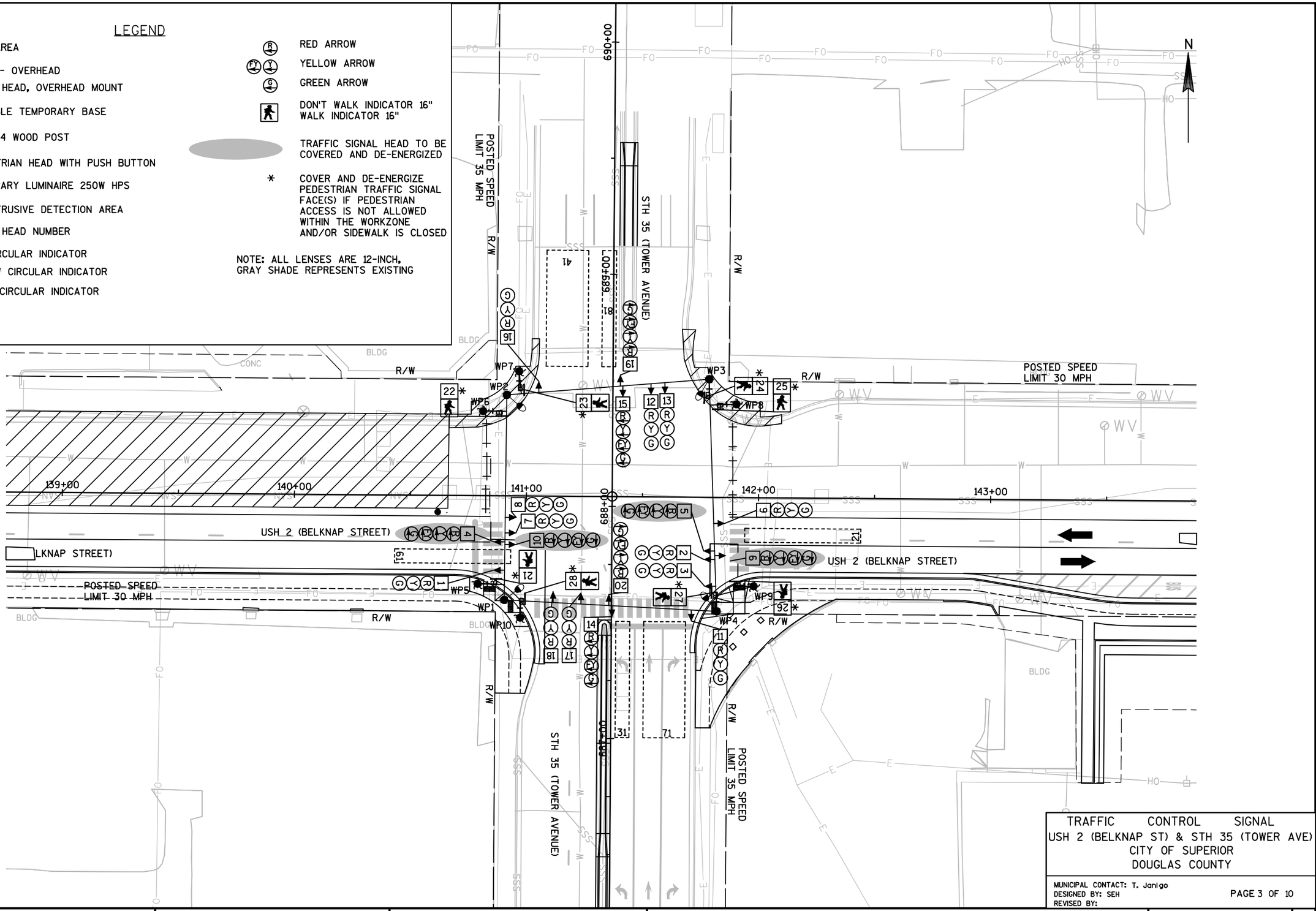
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PLOT DATE : 7/29/2016 8:40 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 3 OF 10

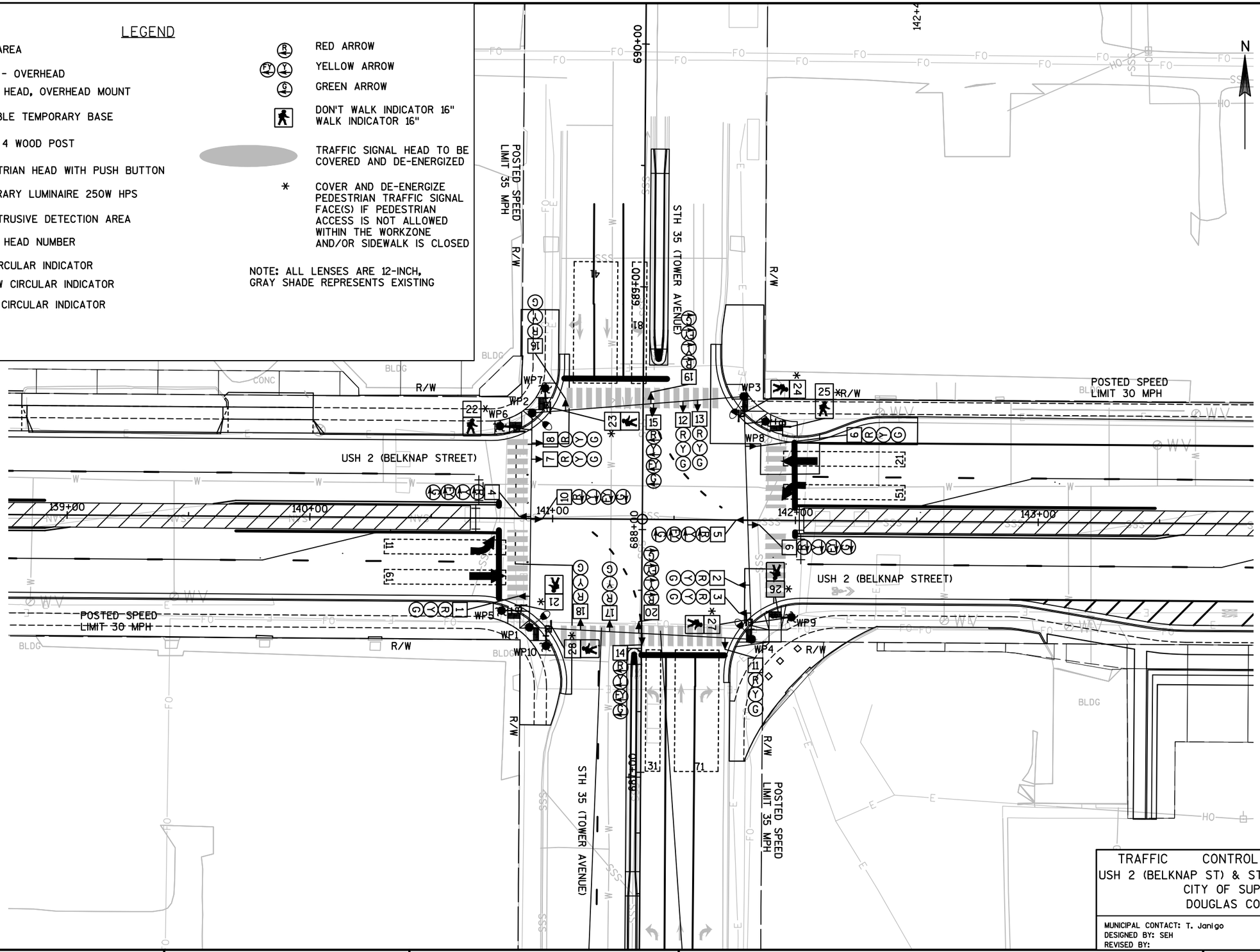
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FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023912_TS.DWG PLOT DATE : 7/29/2016 8:51 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 4 OF 10

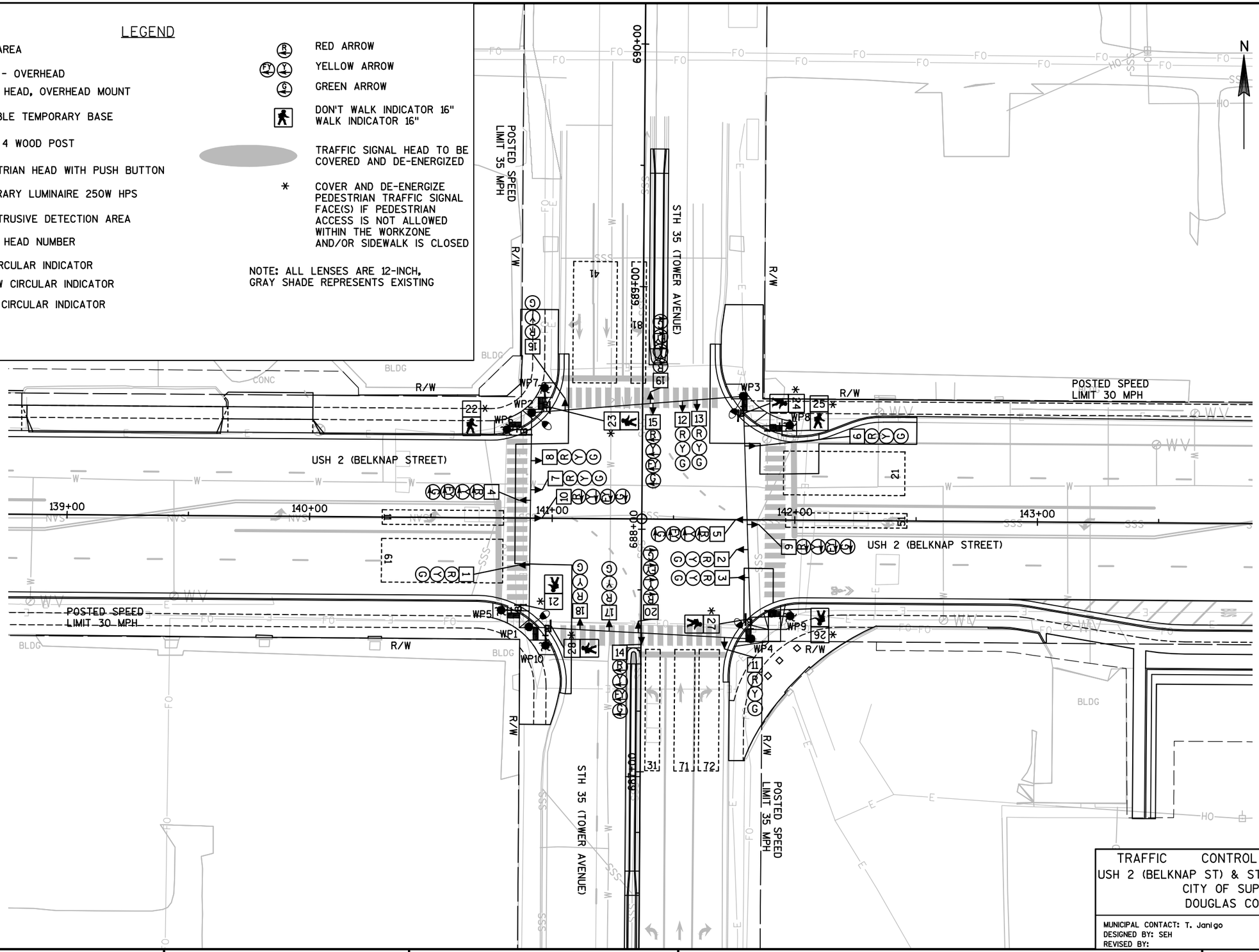
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 293	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023913_TS.DWG
PLOT DATE : 7/29/2016 9:04 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

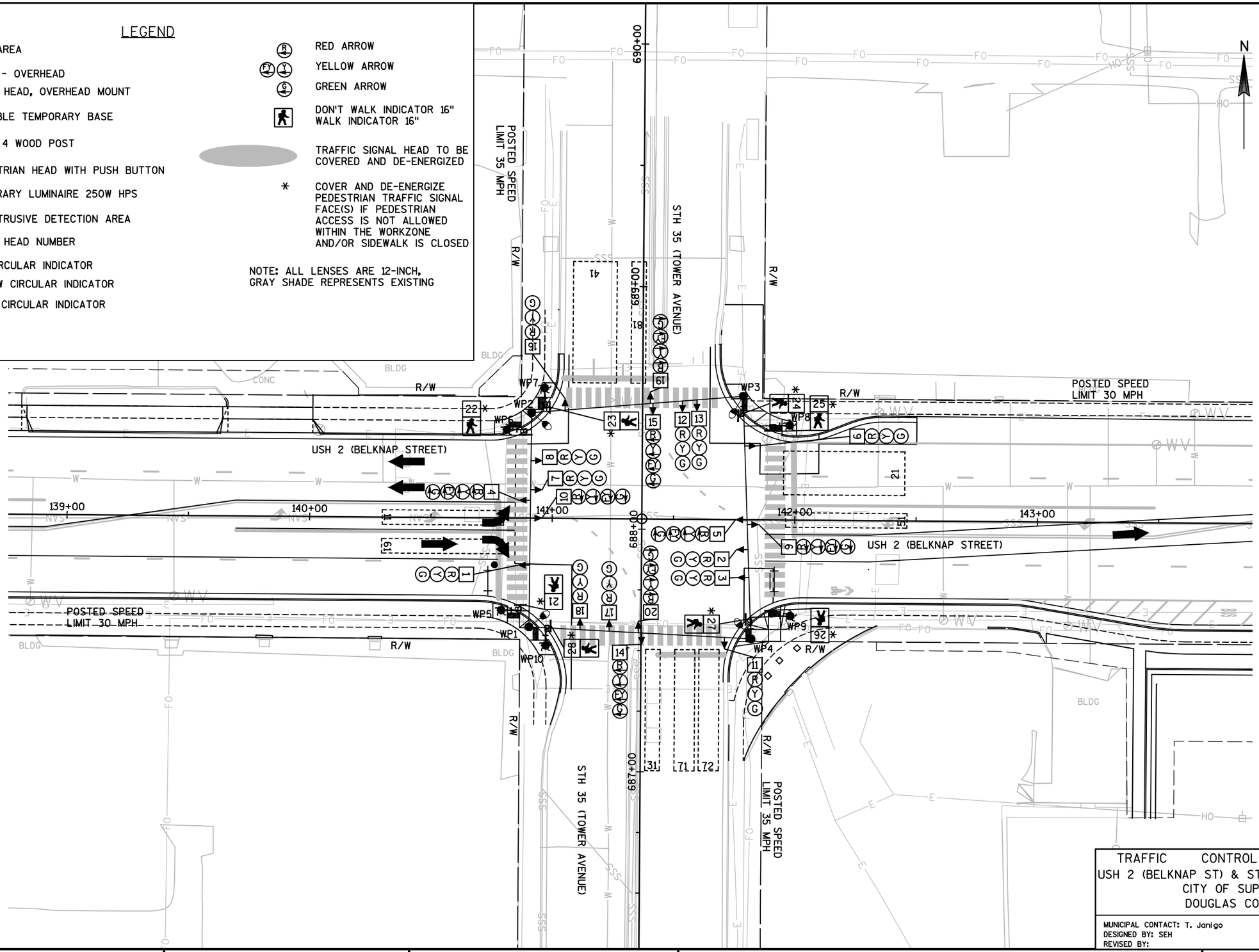
PAGE 5 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 294 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
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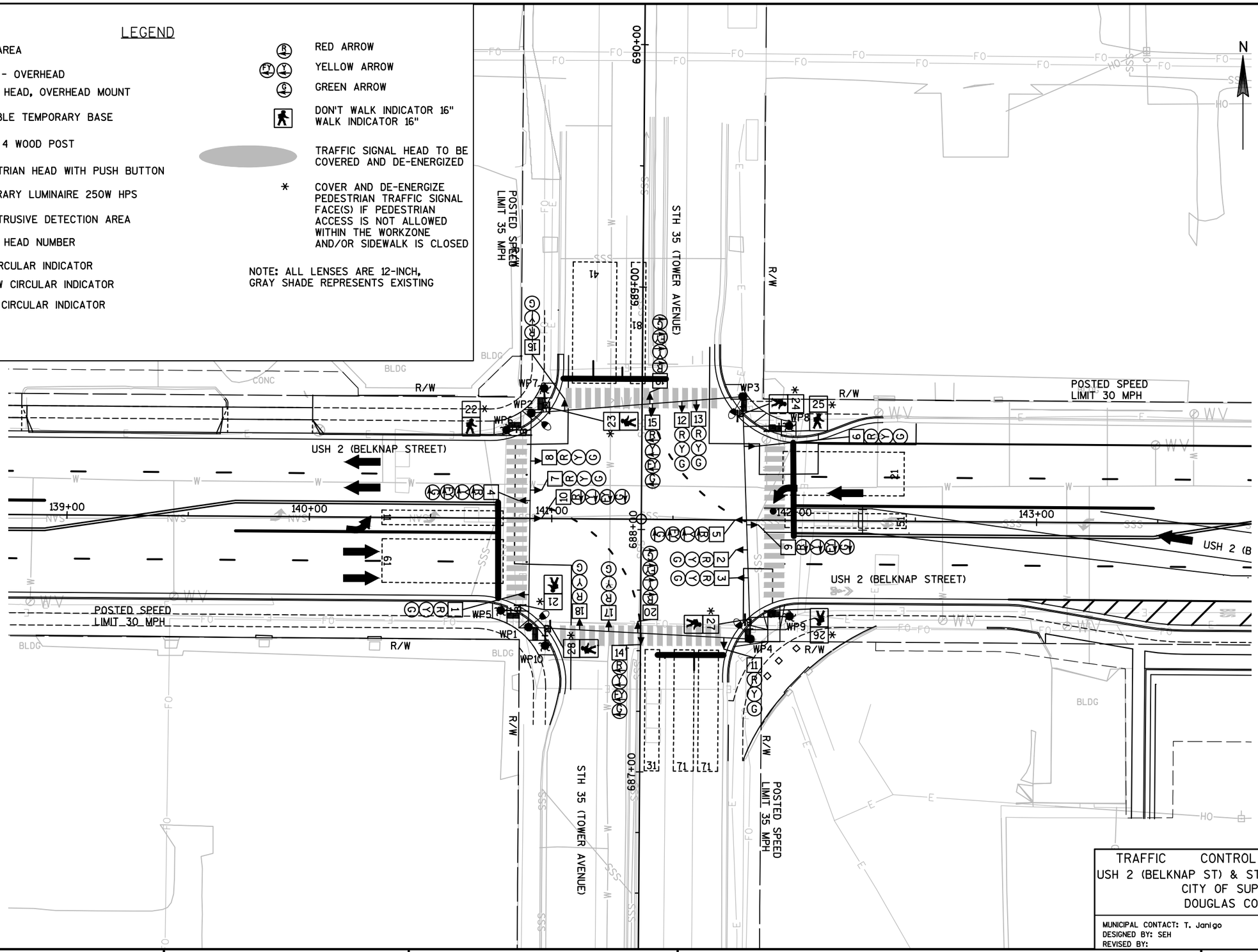
PAGE 6 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 295 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

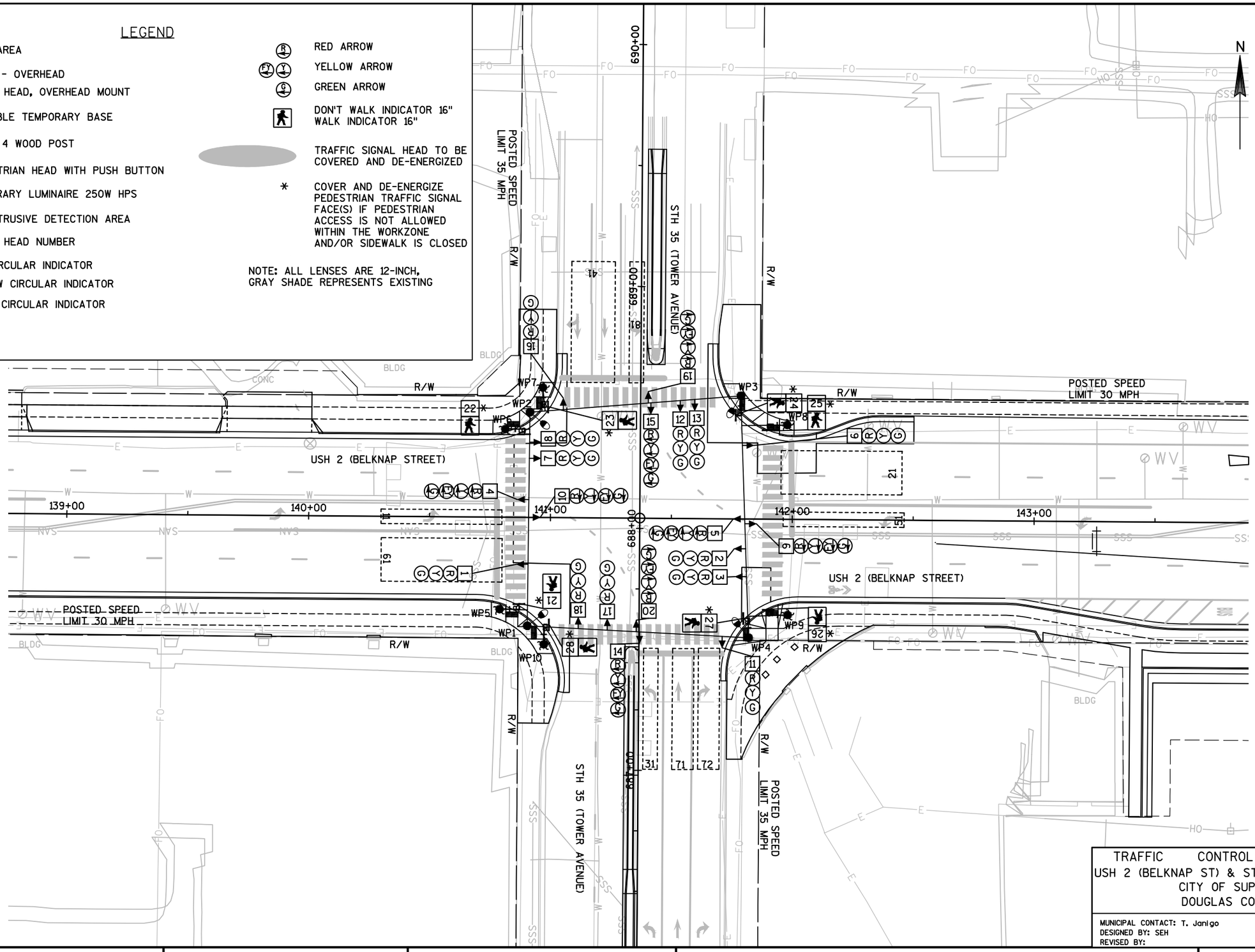
PAGE 7 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET 296 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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- (Y) YELLOW CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

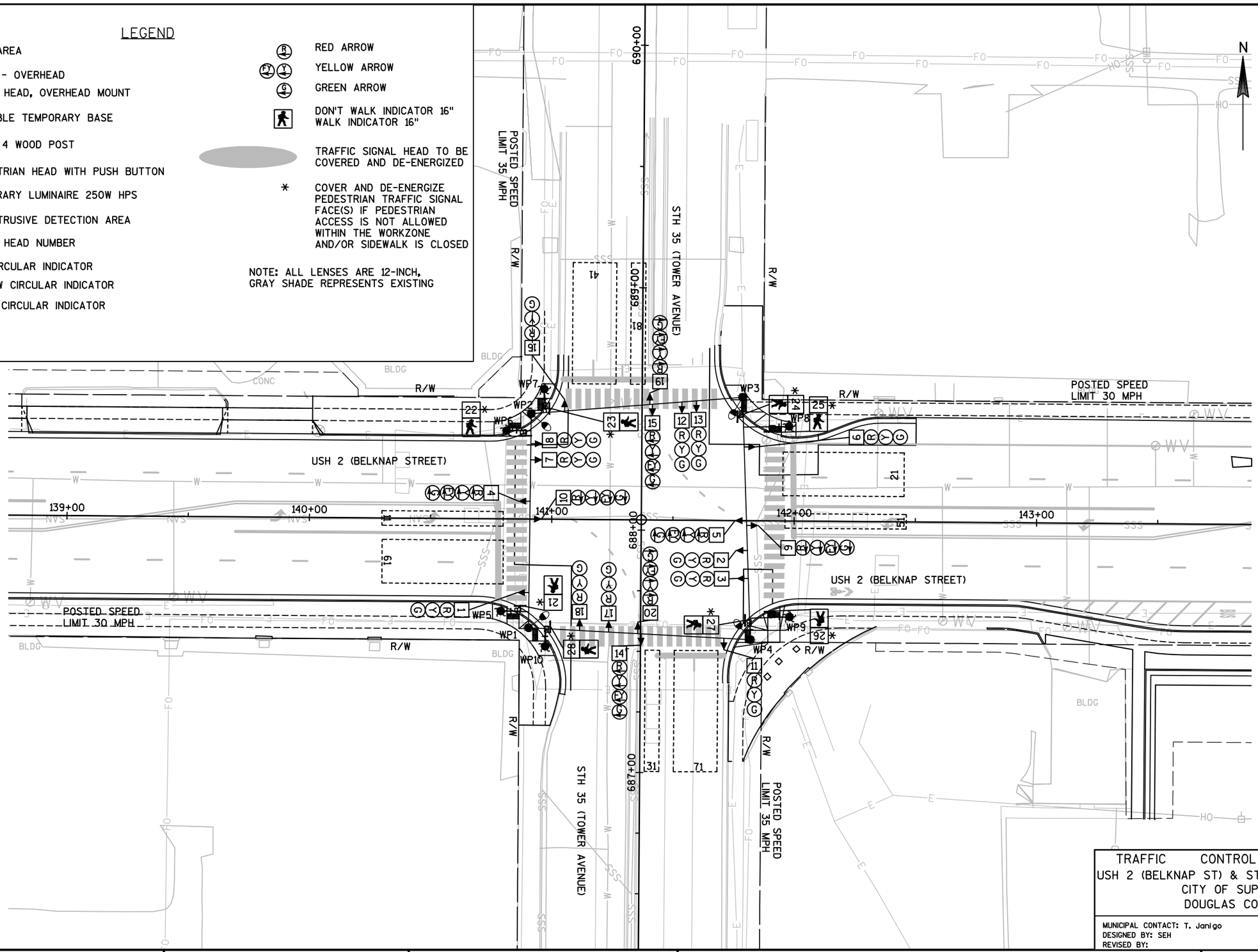
PAGE 8 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET 297 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET 298	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023918_TS.DWG
PLOT DATE : 7/29/2016 9:25 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	- -	-	- -	-	- -	-	- -	-
Ø2	6,7,8	R	R R	G	Y R	R	R R	R	R R	R
Ø3	14,15	-	- -	-	- -	G ←	- -	-	- -	-
Ø4	16,17,18	R	R R	R	R R	R	R R	G	Y R	R
Ø5	9,10	-	- -	-	- -	-	- -	-	- -	-
Ø6	1,2,3	R	R R	R	R R	R	R R	R	R R	R
Ø7	11,12,13	R	R R	R	R R	R	R R	R	R R	R
Ø8	19,20	-	- -	-	- -	-	- -	-	- -	-
OLA	4,5	-	Y R	FY ←	Y R	R ←	R R	R ←	R R	R ←
OLB	14,15	R ←	R R	R ←	R R	-	Y R	FY ←	Y R	R ←
OLC	9,10	R ←	R R	R ←	R R	R ←	R R	R ←	R R	R ←
OLD	11,12,13	R ←	R R	R ←	R R	R ←	R R	R ←	R R	R ←
Ø2P	23,24	D	D D	*	D D	D	D D	D	D D	
Ø4P	21,22	D	D D	D	D D	D	D D	*	D D	
Ø6P	27,28	D	D D	D	D D	D	D D	D	D D	
Ø7P	25,26	D	D D	D	D D	D	D D	D	D D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	4,5	-	- -	-	- -	-	- -	-	- -
Ø2	6,7,8	R	R R	R	R R	R	R R	R	R R
Ø3	14,15	R	R R	R	R R	R	R R	R	R R
Ø4	16,17,18	R	R R	R	R R	R	R R	R	R R
Ø5	9,10	G ←	- -	-	- -	-	- -	-	- -
Ø6	1,2,3	R	R R	G	Y R	R	R R	R	R R
Ø7	11,12,13	R	R R	R	R R	G	Y R	R	R R
Ø8	19,20		- -	-	- -	-	- -	G ←	- -
OLA	4,5	R ←	R R	R ←	R R	R ←	R R	R ←	R R
OLB	14,15	R ←	R R	R ←	R R	R ←	R R	R ←	R R
OLC	9,10	-	Y R	FY ←	Y R	R ←	R R	R ←	R R
OLD	11,12,13	R ←	R R	R ←	R R	FY ←	Y R	-	Y R
Ø2P	23,24	D	D D	D	D D	D	D D	D	D D
Ø4P	21,22	D	D D	D	D D	D	D D	D	D D
Ø6P	27,28	D	D D	*	D D	D	D D	D	D D
Ø7P	25,26	D	D D	D	D D	*	D D	D	D D

FY=FLASHING YELLOW

BARRIER

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
31		X			3	3			
41		X			4	4			
51		X			5	5			
61		X			6	6			
71		X			7	7			
72		X			7	7		X	
81		X			8	8			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3		7		X
4		7		X
5		2		X
6		2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB	3	4
OLC	5	6
OLD	8	7

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7	1,2,4,5,6,8
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	4	1,2,3,5,6,7

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

USH 2 (BELKNAP ST)
& STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE 06/16

FILE NAME : ...\Temp S00\023939_Temp_SP_PH.dgn PLOT DATE : 7/29/2016 10:18:29 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

N

OGDEN AVENUE
POSTED SPEED LIMIT 25 MPH
USH 2 (BELKNAP STREET)
POSTED SPEED LIMIT 30 MPH
WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8
143+00 144+00 145+00 146+00 147+00 148+00
100+00 101+00 102+00 99+00
R/W
BLDG
ASPH
CONC
MWEL

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

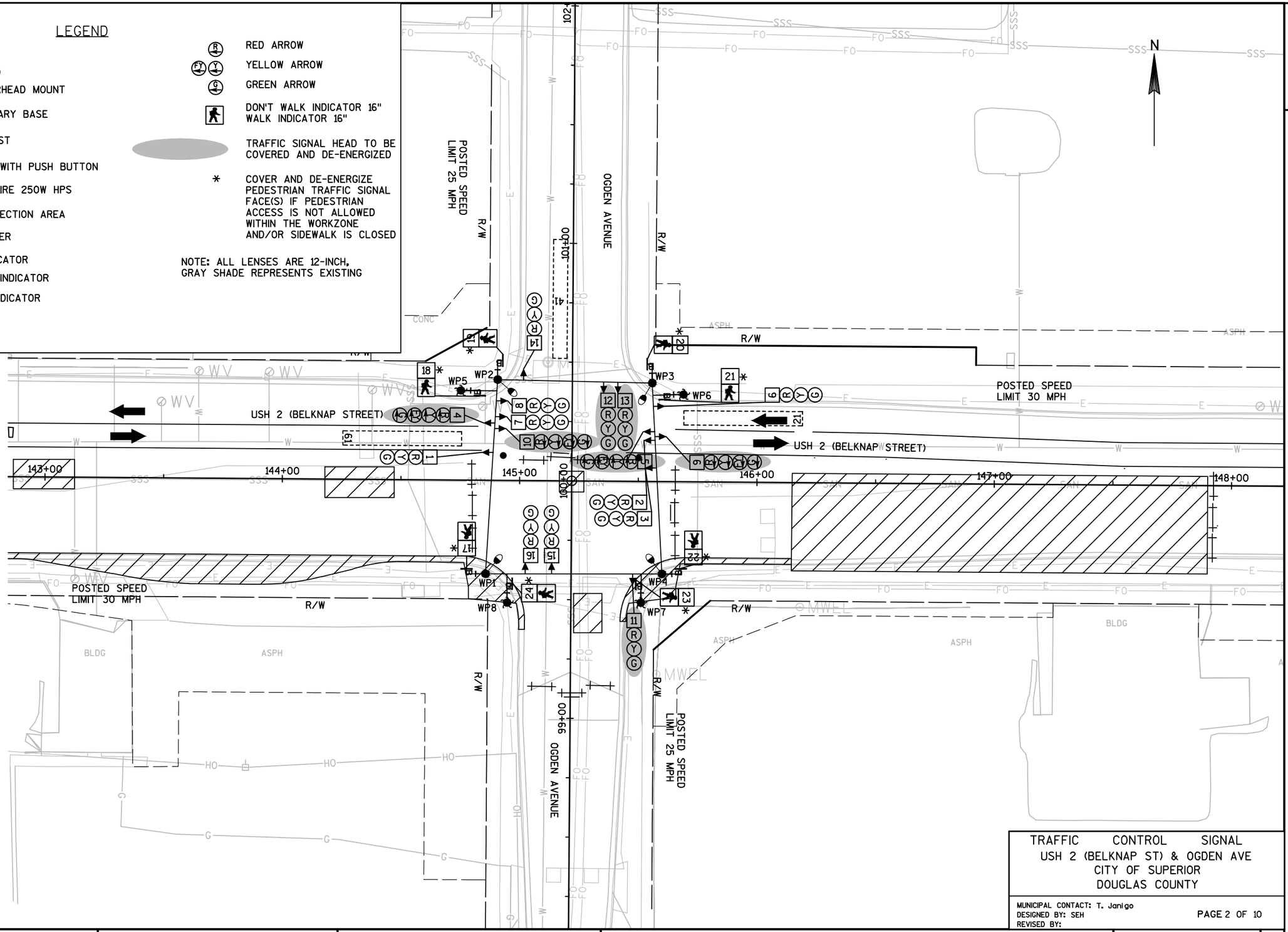
MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:
PAGE 1 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 300	E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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- (Y) YELLOW CIRCULAR INDICATOR
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

PAGE 2 OF 10

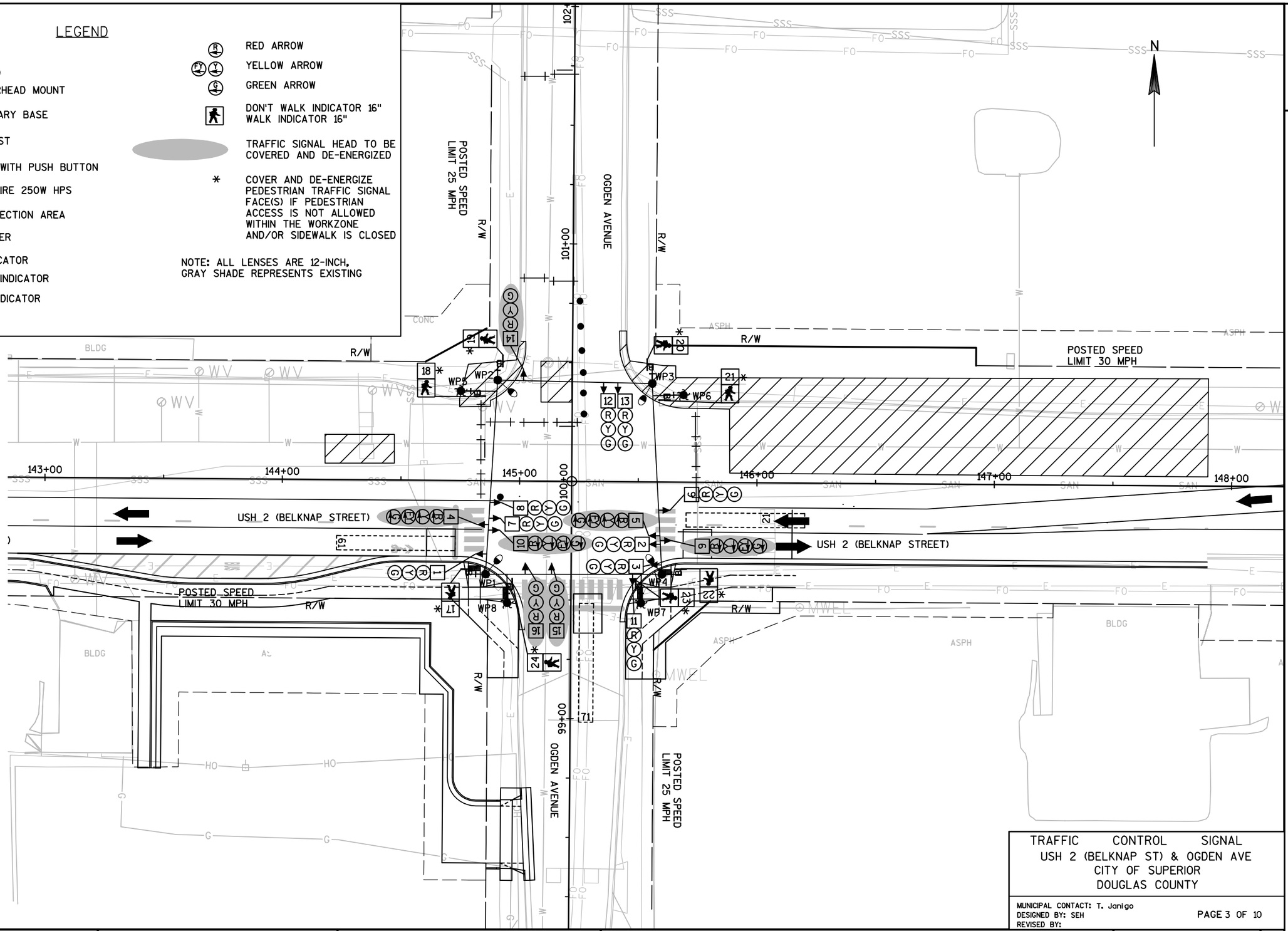
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 301	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023911_TS.DWG PLOT DATE : 7/29/2016 8:41 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

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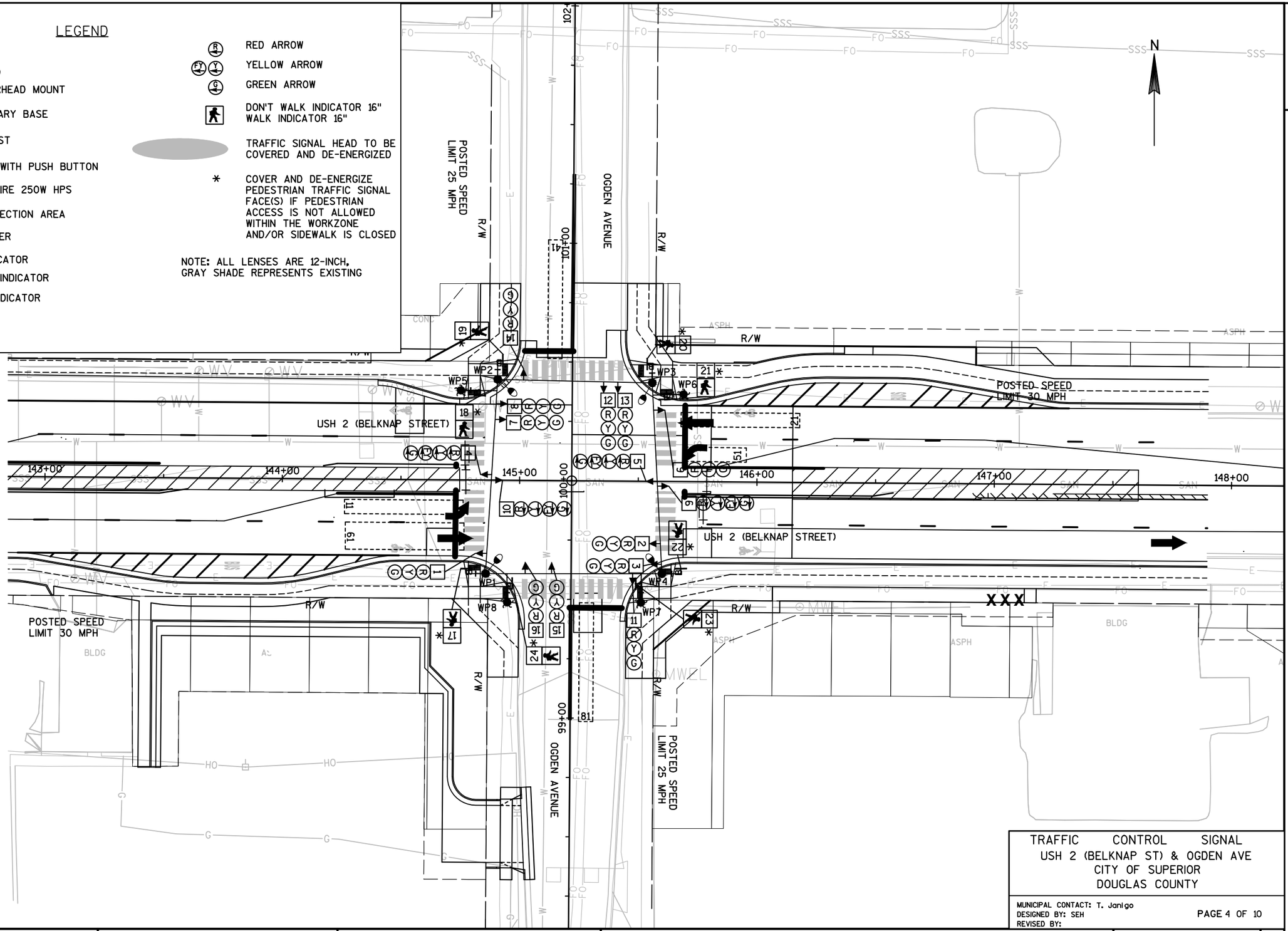
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023912_TS.DWG
PLOT DATE : 7/29/2016 8:52 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
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USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

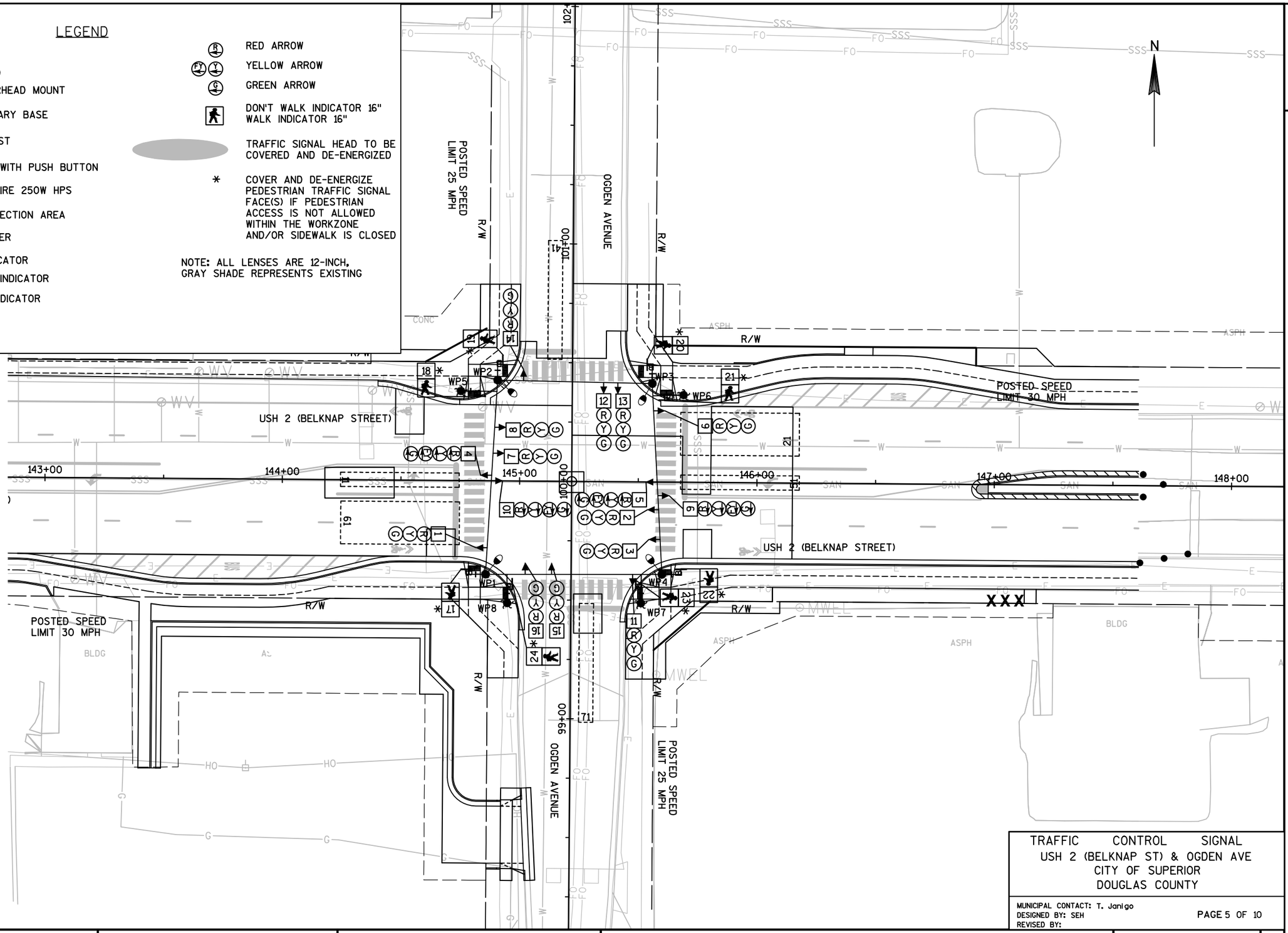
PAGE 4 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 303	E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
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PAGE 5 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 304 E

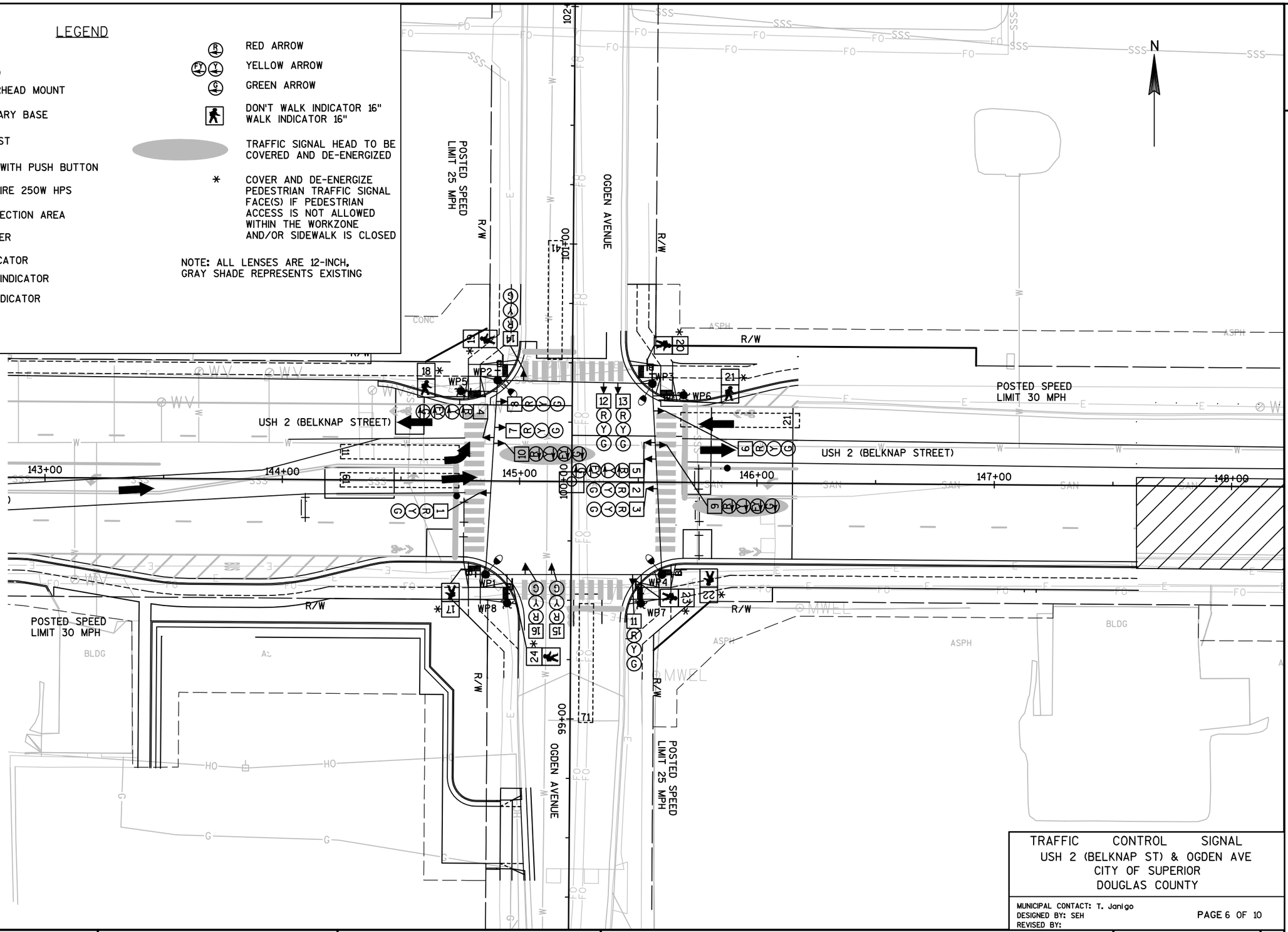
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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PAGE 6 OF 10

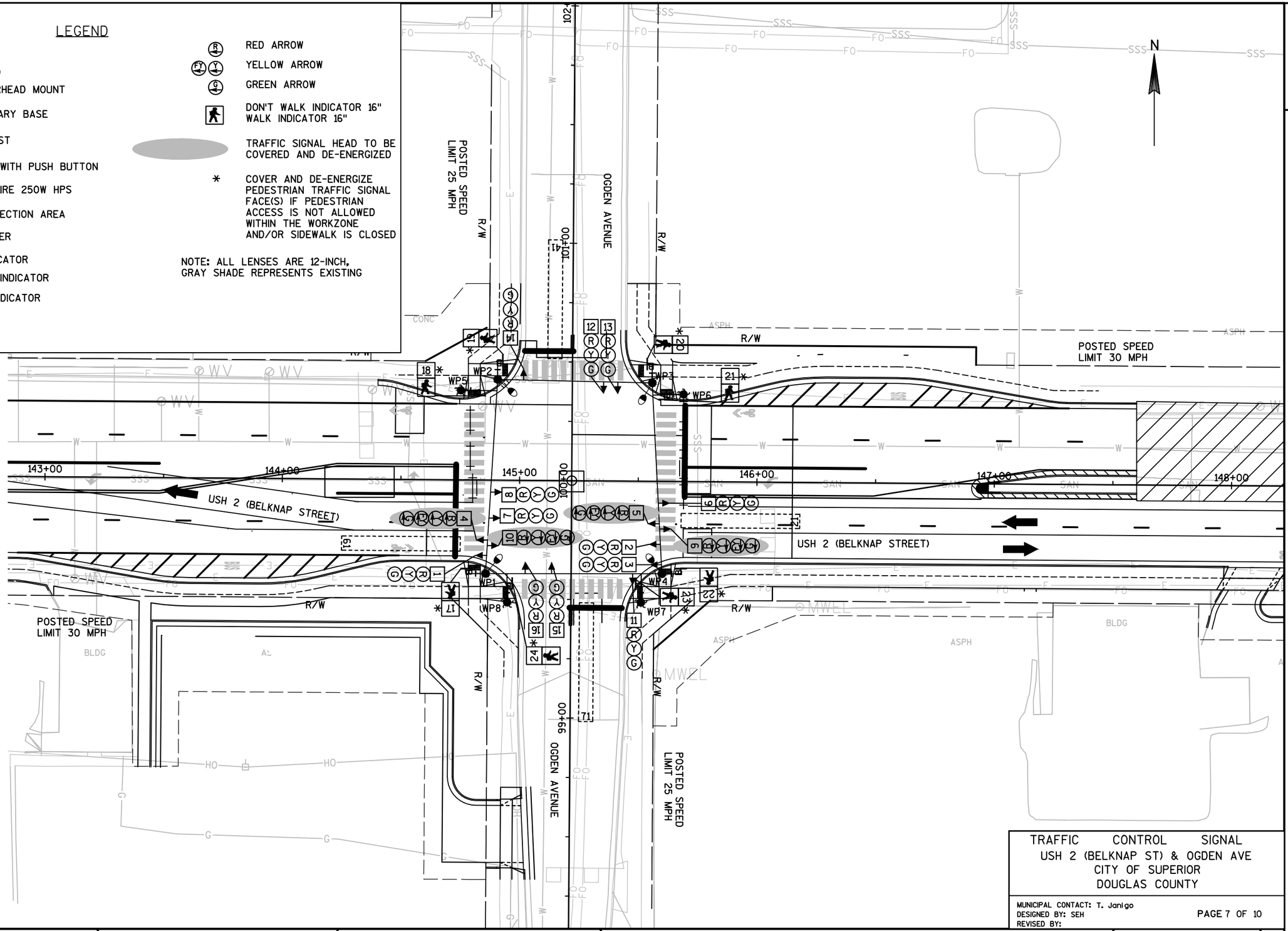
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 305	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023915_TS.DWG PLOT DATE : 7/29/2016 8:29 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

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PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET 306 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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N

OGDEN AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

USH 2 (BELKNAP STREET)

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

143+00 144+00 145+00 146+00 147+00 148+00

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 8 OF 10

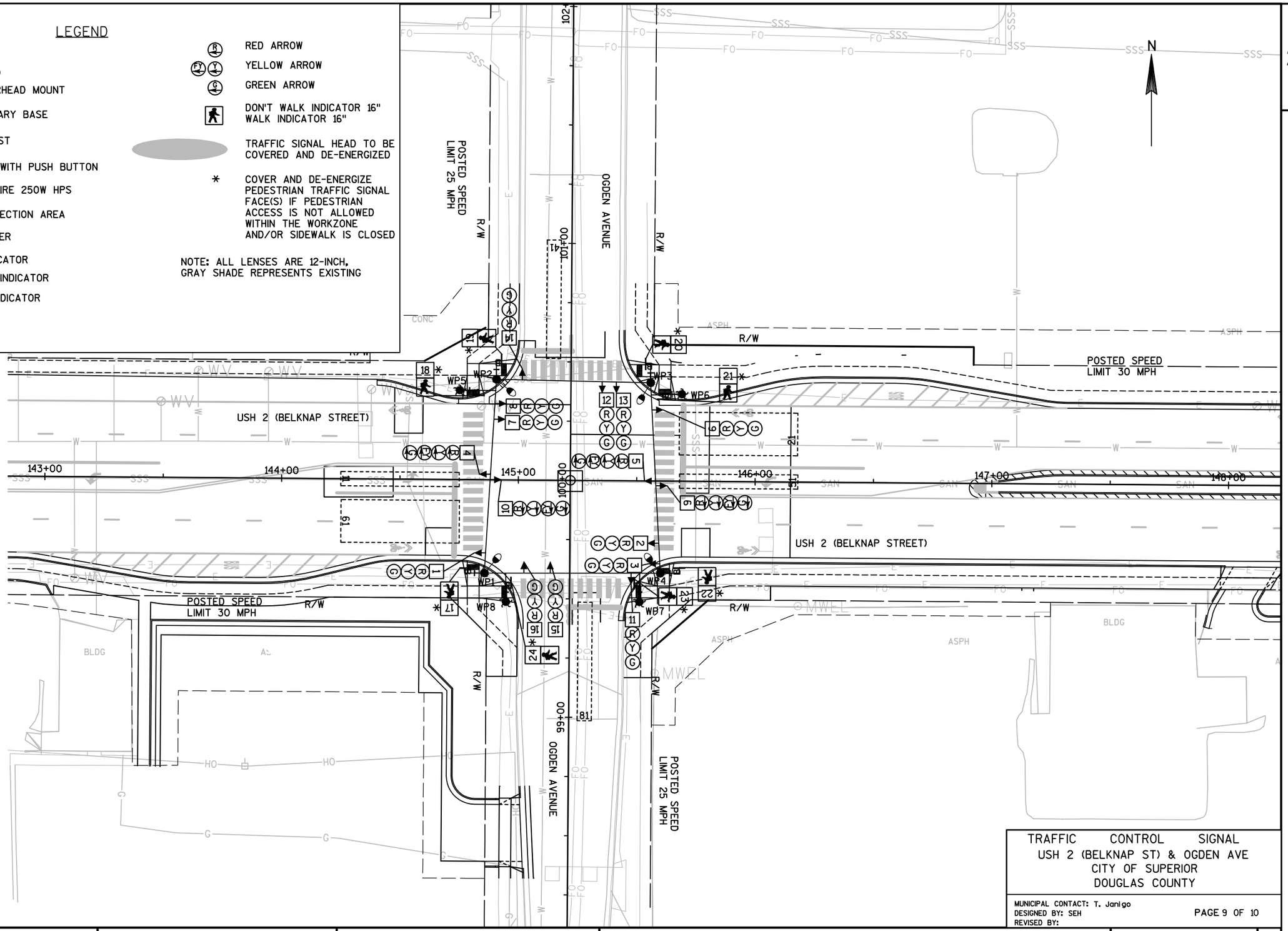
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023917_TS.DWG PLOT DATE : 7/29/2016 10:00 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

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PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET 308 E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	- -	-	- -			-	- -	-
Ø2	6,7,8	R	R R	G	Y R			R	R R	R
Ø3										
Ø4	14,15,16	R	R R	R	R R			G	Y R	R
Ø5	9,10	-	- -	-	- -			-	- -	-
Ø6	1,2,3	R	R R	R	R R			R	R R	R
Ø7										
Ø8	11,12,13	R	R R	R	R R			R	R R	R
OLA	4,5	-	Y R	FY	Y R			R ←	R R ←	R ←
OLB										
OLC	9,10	R ←	R R ←	R	R R			R ←	R R ←	R ←
OLD										
Ø2P	19,20	D	D D	*	D D			D	D D	
Ø4P	17,18	D	D D	D	D D			*	D D	
Ø6P	23,24	D	D D	D	D D			D	D D	
Ø8P	21,22	D	D D	D	D D			D	D D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	4,5	-	- -	-	- -			-	- -
Ø2	6,7,8	R	R R	R	R R			R	R R
Ø3									
Ø4	14,15,16	R	R R	R	R R			R	R R
Ø5	9,10	G ←	- -	-	- -			-	- -
Ø6	1,2,3	R	R R	G	Y R			R	R R
Ø7									
Ø8	19,20	R	R R	R	R R			G	Y R
OLA	4,5	R ←	R R ←	R ←	R R ←			R ←	R R ←
OLB									
OLC	9,10	-	Y R ←	FY ←	Y R ←			R ←	R R ←
OLD									
Ø2P	19,20	D	D D	D	D D			D	D D
Ø4P	17,18	D	D D	D	D D			D	D D
Ø6P	23,24	D	D D	*	D D			D	D D
Ø8P	21,22	D	D D	D	D D			*	D D

FY=FLASHING YELLOW

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
41		X			4	4			
51		X			5	5			
61		X			6	6			
81		X			8	8			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3				
4		8		X
5		2		X
6		2	MIN.	X
7				
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB		
OLC	5	6
OLD		

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,4,8
2	5 OR 6	1,4,8
3		
4	8	1,2,5,6
5	1 OR 2	4,6,8
6	1 OR 2	4,5,8
7		
8	4	1,2,5,6

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE Ø6/16

FILE NAME : ...\Temp S00\023949_Temp_SP_PH.dgn PLOT DATE : 5/27/2016 11:20:14 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

N

USH 2 (BELKNAP STREET)

HAMMOND AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

154+00 155+00 156+00 157+00 158+00 159+00

330+00 331+00 332+00

R/W

BLDG ASPH WV

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 10

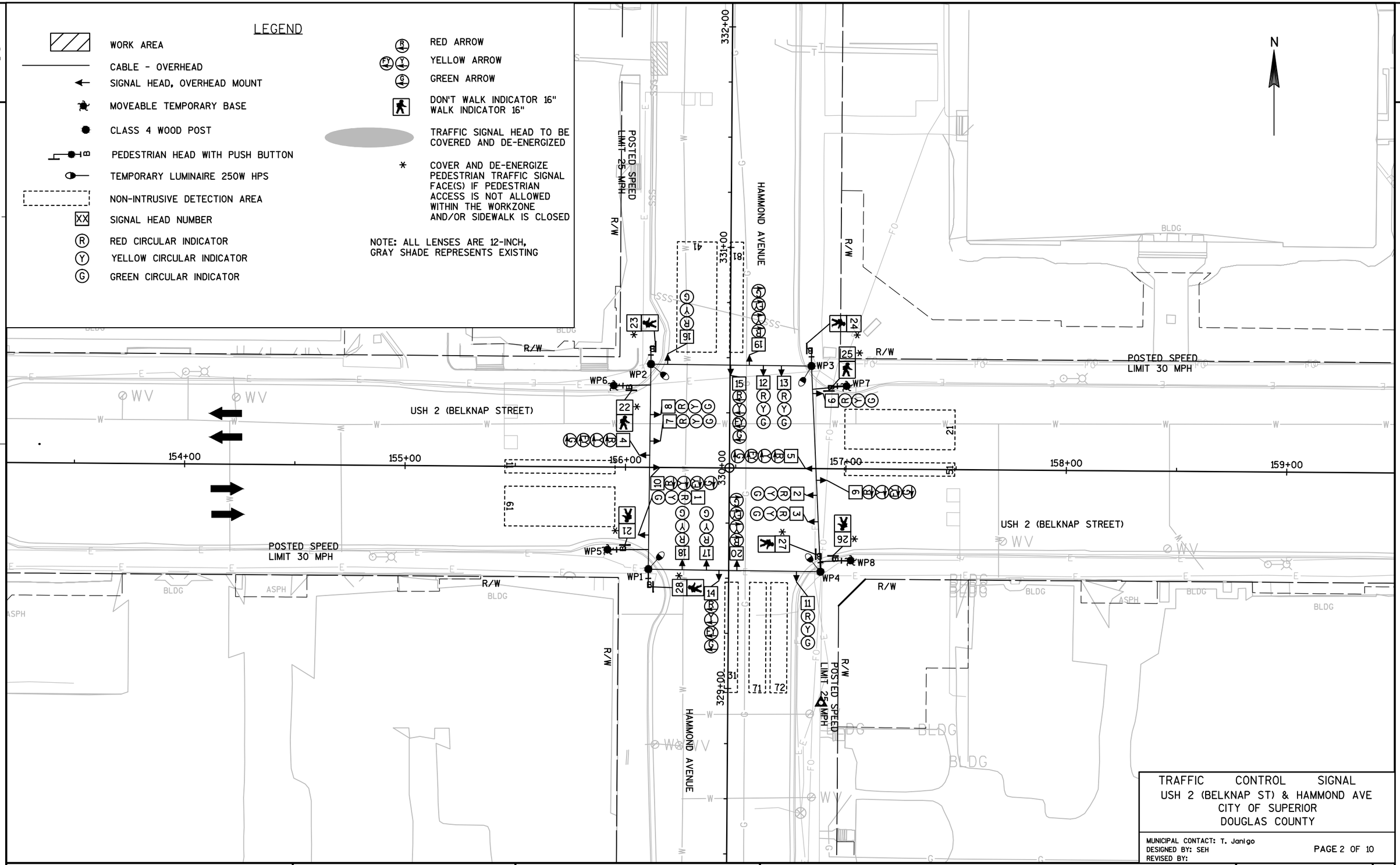
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 310	E

FILE NAME : Y:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023910_TS.DWG PLOT DATE : 7/28/2016 4:45 PM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

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USH 2 (BELKNAP ST) & HAMMOND AVE
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DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

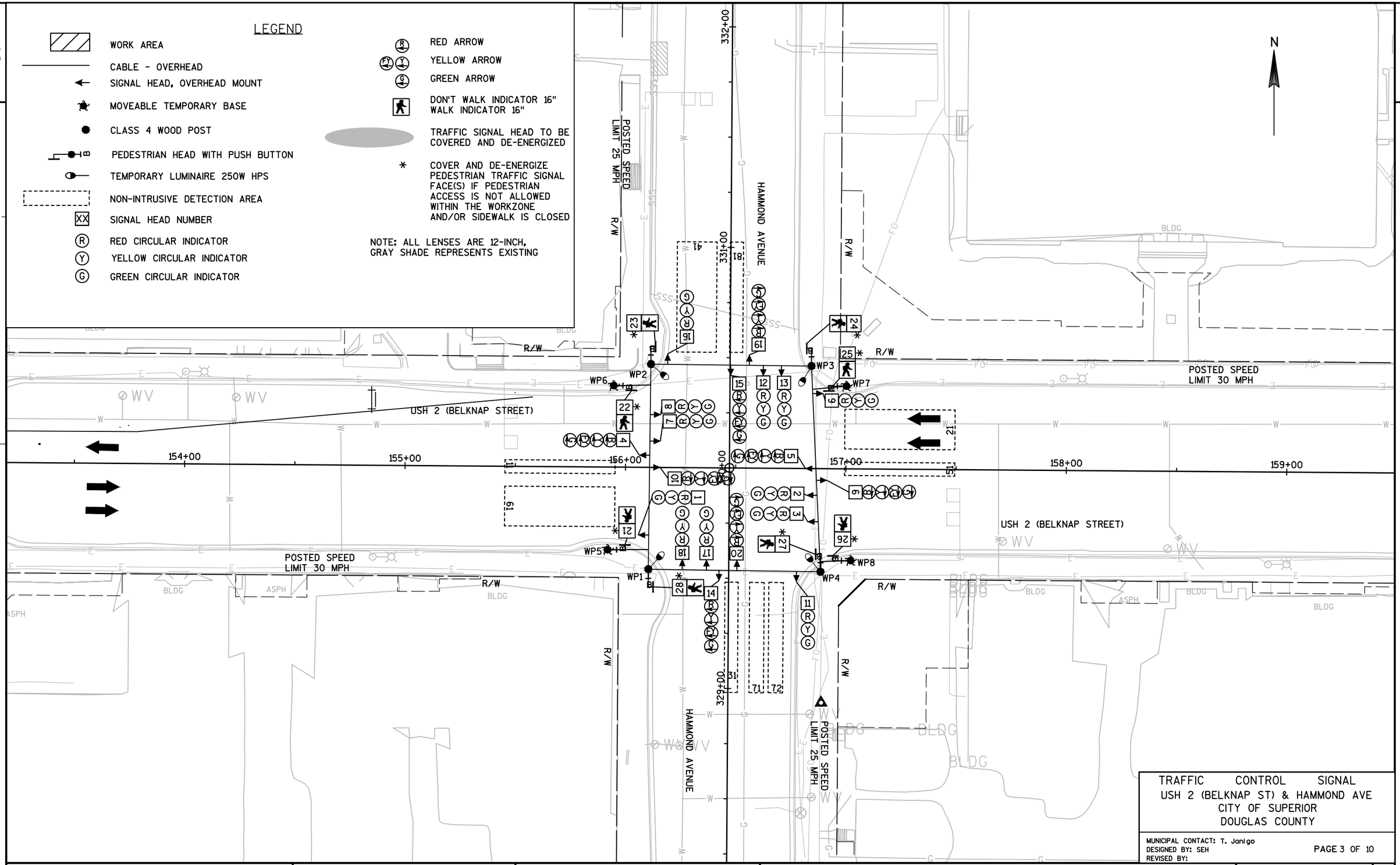
PAGE 2 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 311	E

LEGEND

- WORK AREA
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- MOVEABLE TEMPORARY BASE
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 3 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET E

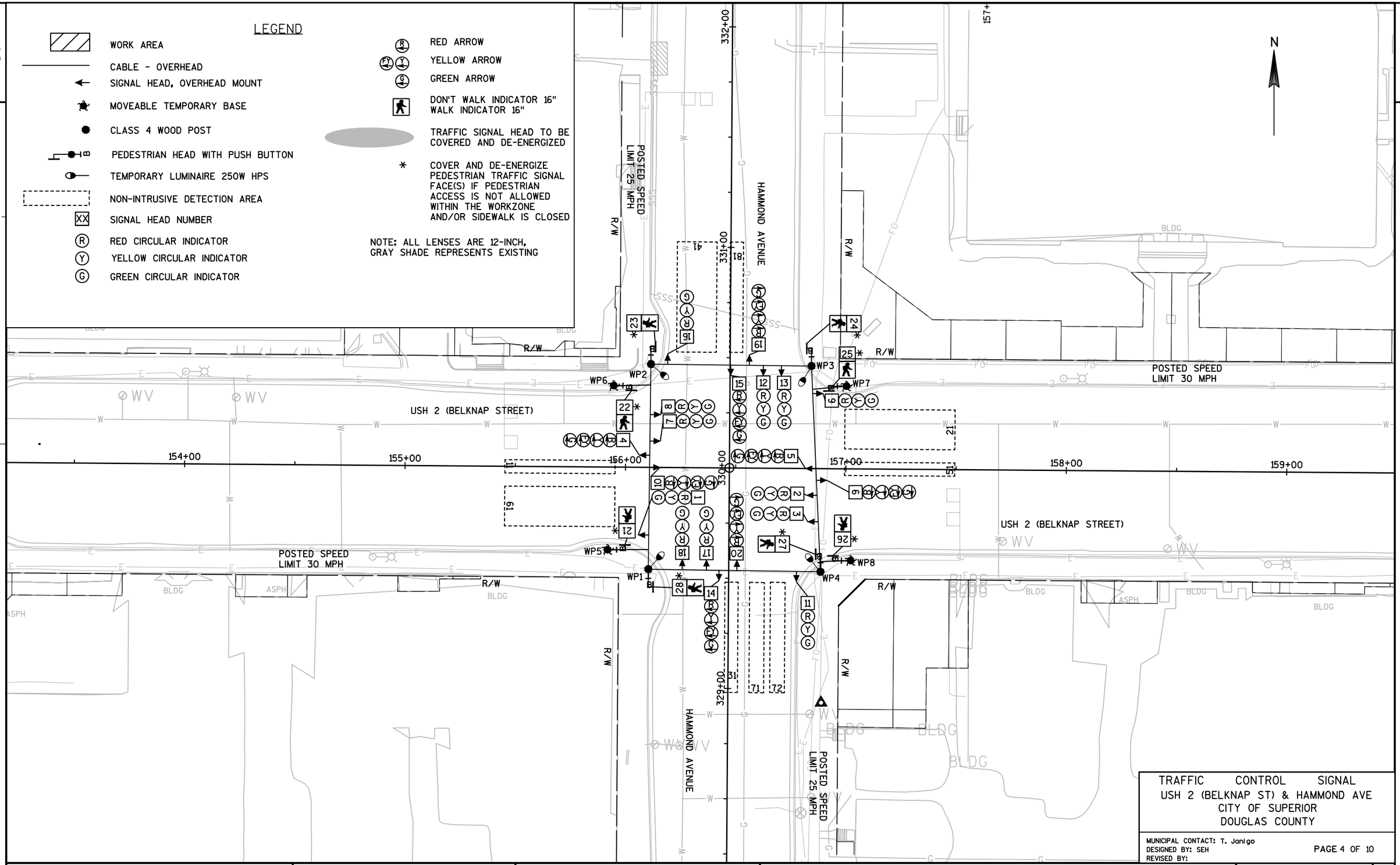
FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023912_TS.DWG
PLOT DATE : 7/29/2016 8:52 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 4 OF 10

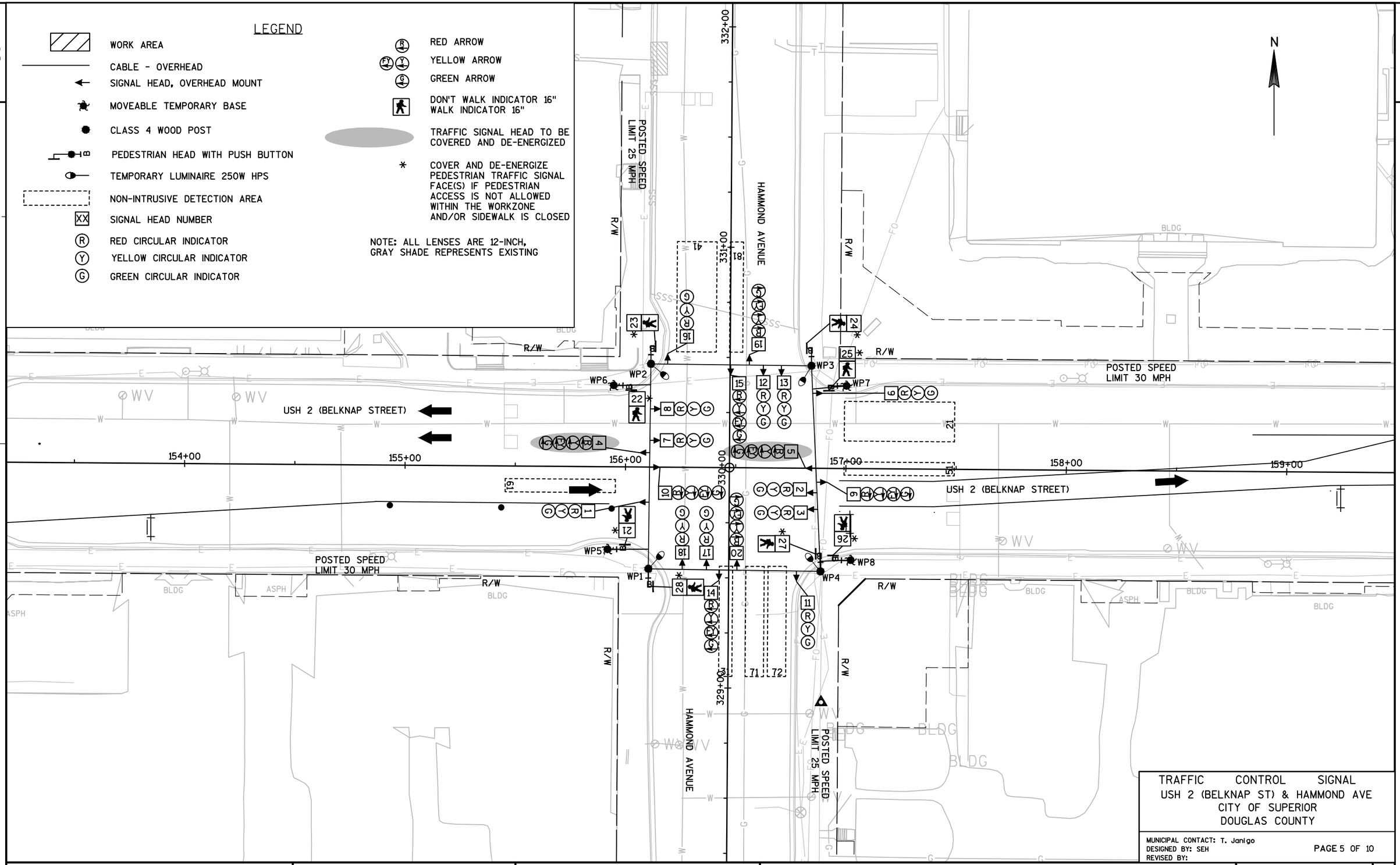
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023913_TS.DWG PLOT DATE : 7/29/2016 9:04 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 5 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023914_TS.DWG
PLOT DATE : 7/29/2016 9:15 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

N

USH 2 (BELKNAP STREET)

HAMMOND AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

154+00 155+00 156+00 157+00 158+00 159+00

326+00 329+00 330+00 331+00 332+00

BLDG ASPH WV

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 6 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 315 E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023915_TS.DWG PLOT DATE : 7/29/2016 8:29 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
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N

USH 2 (BELKNAP STREET)

HAMMOND AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

R/W

BLDG

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

154+00 155+00 156+00 157+00 158+00 159+00

331+00 332+00 333+00 334+00

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

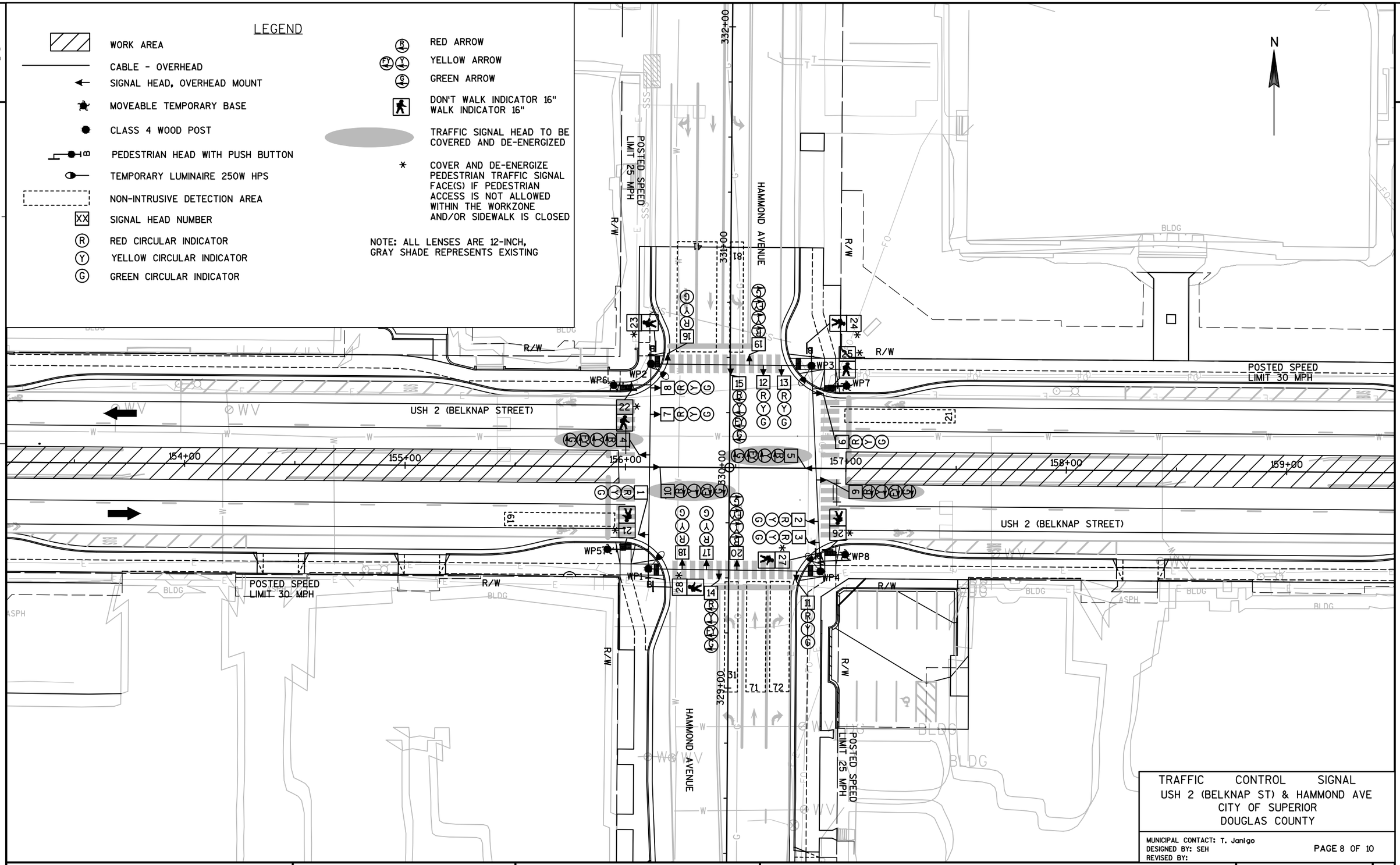
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET 316 E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023916_TS.DWG
PLOT DATE : 7/29/2016 9:39 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

PAGE 8 OF 10

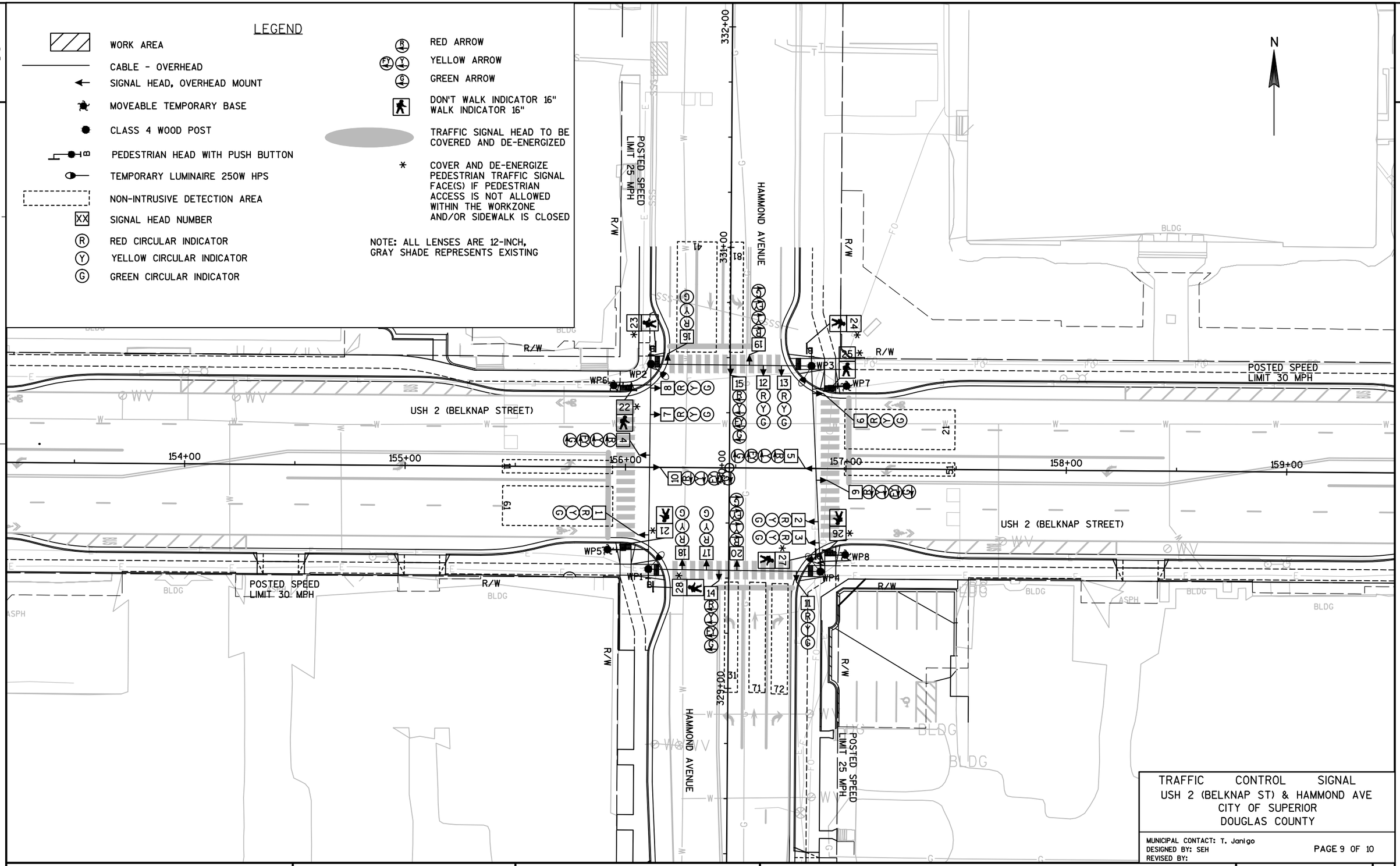
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023917_TS.DWG PLOT DATE : 7/29/2016 10:01 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 9 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET 318 E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1	Ø1	Ø2 R/W	Ø2 **	Ø2	Ø2	Ø3 R/W	Ø3 **	Ø3	Ø3	Ø4 R/W	Ø4 **	Ø4	Ø4	FLASH
			CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO			
Ø1	4,5	G ←	-	-		-	-	-		-	-	-		-	-	-		-
Ø2	6,7,8	R	R	R		G	Y	R		R	R	R		R	R	R		R
Ø3	14,15	-	-	-		-	-	-		G ←	-	-		-	-	-		-
Ø4	16,17,18	R	R	R		R	R	R		R	R	R		G	Y	R		R
Ø5	9,10	-	-	-		-	-	-		-	-	-		-	-	-		-
Ø6	1,2,3	R	R	R		R	R	R		R	R	R		R	R	R		R
Ø7	11,12,13	R	R	R		R	R	R		R	R	R		R	R	R		R
Ø8	19,20	-	-	-		-	-	-		-	-	-		-	-	-		-
OLA	4,5	-	Y	R		FY	Y	R		R	R	R		R	R	R		R
OLB	14,15	R	R	R		R	R	R		-	Y	R		FY	Y	R		R
OLC	9,10	R	R	R		R	R	R		R	R	R		R	R	R		R
OLD	11,12,13	R	R	R		R	R	R		R	R	R		R	R	R		R
Ø2P	23,24	D	D	D		*	D	D		D	D	D		D	D	D		
Ø4P	21,22	D	D	D		D	D	D		D	D	D		*	D	D		
Ø6P	27,28	D	D	D		D	D	D		D	D	D		D	D	D		
Ø7P	25,26	D	D	D		D	D	D		D	D	D		D	D	D		

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5	Ø5	Ø6 R/W	Ø6 **	Ø6	Ø6	Ø7 R/W	Ø7 **	Ø7	Ø7	Ø8 R/W	Ø8 **	Ø8	Ø8
			CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO		
Ø1	4,5	-	-	-		-	-	-		-	-	-		-	-	-	
Ø2	6,7,8	R	R	R		R	R	R		R	R	R		R	R	R	
Ø3	14,15	R	R	R		R	R	R		R	R	R		R	R	R	
Ø4	16,17,18	R	R	R		R	R	R		R	R	R		R	R	R	
Ø5	9,10	G ←	-	-		-	-	-		-	-	-		-	-	-	
Ø6	1,2,3	R	R	R		G	Y	R		R	R	R		R	R	R	
Ø7	11,12,13	R	R	R		R	R	R		G	Y	R		R	R	R	
Ø8	19,20		-	-		-	-	-		-	-	-		G ←	-	-	
OLA	4,5	R ←	R	R		R ←	R	R		R ←	R	R		R ←	R	R	
OLB	14,15	R ←	R	R		R ←	R	R		R ←	R	R		R ←	R	R	
OLC	9,10	-	Y	R		FY ←	Y	R		R ←	R	R		R ←	R	R	
OLD	11,12,13	R ←	R	R		R ←	R	R		FY ←	Y	R		-	Y	R	
Ø2P	23,24	D	D	D		D	D	D		D	D	D		D	D	D	
Ø4P	21,22	D	D	D		D	D	D		D	D	D		D	D	D	
Ø6P	27,28	D	D	D		*	D	D		D	D	D		D	D	D	
Ø7P	25,26	D	D	D		D	D	D		*	D	D		D	D	D	

FY=FLASHING YELLOW

BARRIER

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
31		X			3	3			
41		X			4	4			
51		X			5	5			
61		X			6	6			
71		X			7	7			
72		X			7	7		X	
81		X			8	8			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3		7		X
4		7		X
5		2		X
6		2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB	3	4
OLC	5	6
OLD	8	7

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7	1,2,4,5,6,8
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	4	1,2,3,5,6,7

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

USH 2 (BELKNAP ST)
& HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE Ø6/16

FILE NAME : ...\Temp S00\023959_Temp_SP_PH.dgn PLOT DATE : 7/29/2016 10:20:21 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

N

USH 2 (BELKNAP STREET)

GRAND AVENUE

LAMBORN AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

165+00 166+00 167+00 168+00 169+00 170+00

372+00 371+00 360+00 359+00

R/W ASPH BLDG OH SSS FO W E G WV

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 320	E

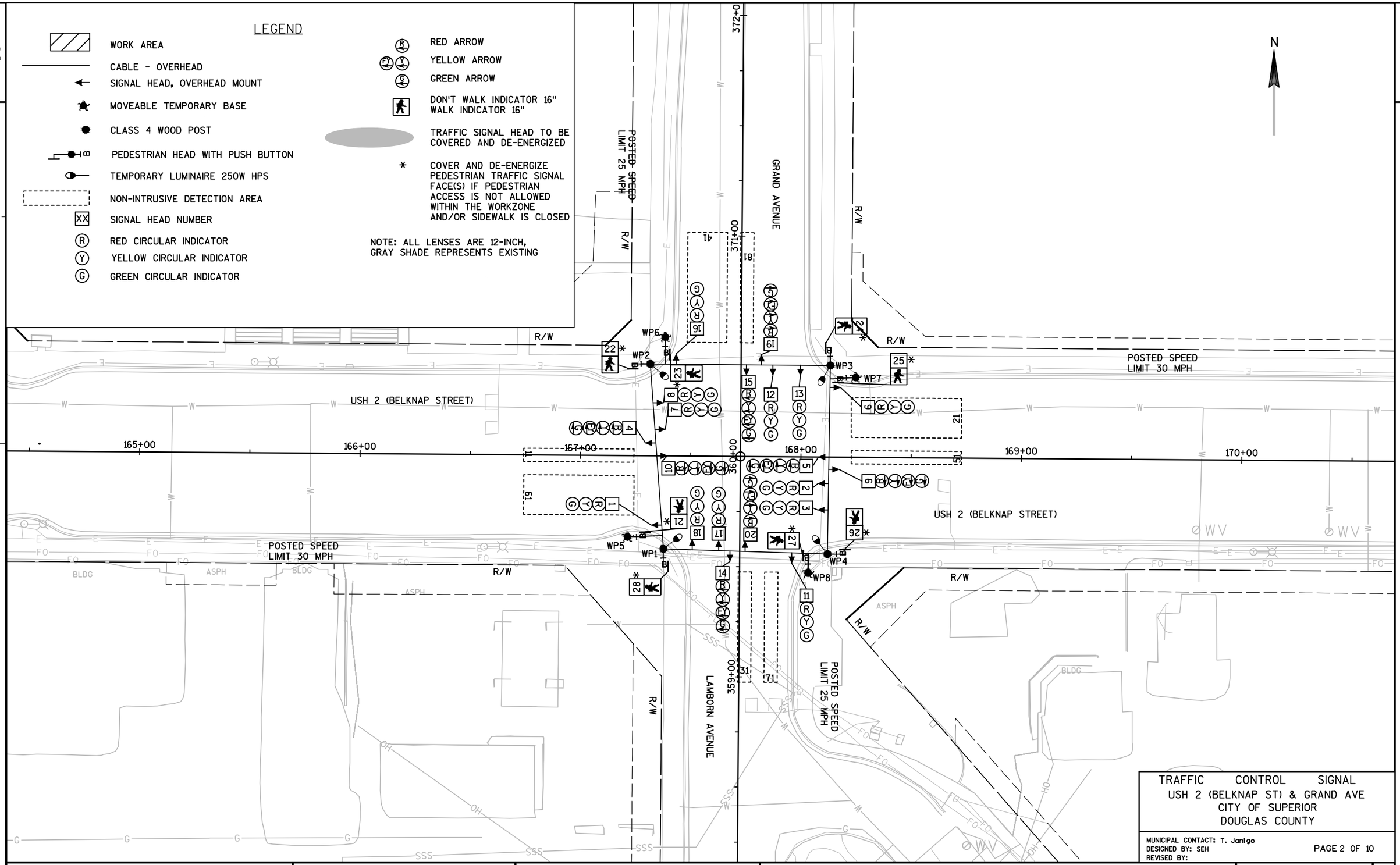
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

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DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET	E

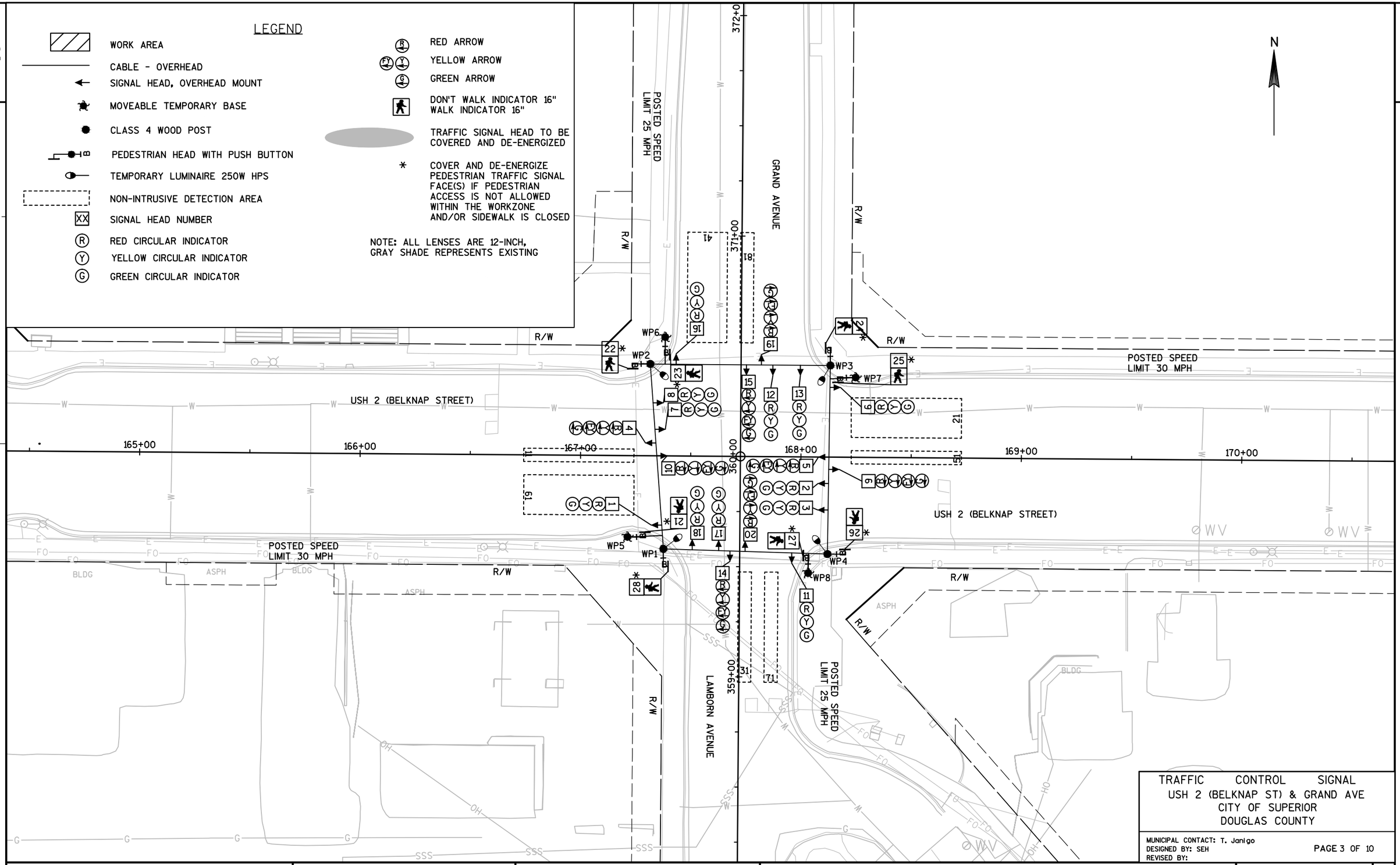
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 3 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET	E

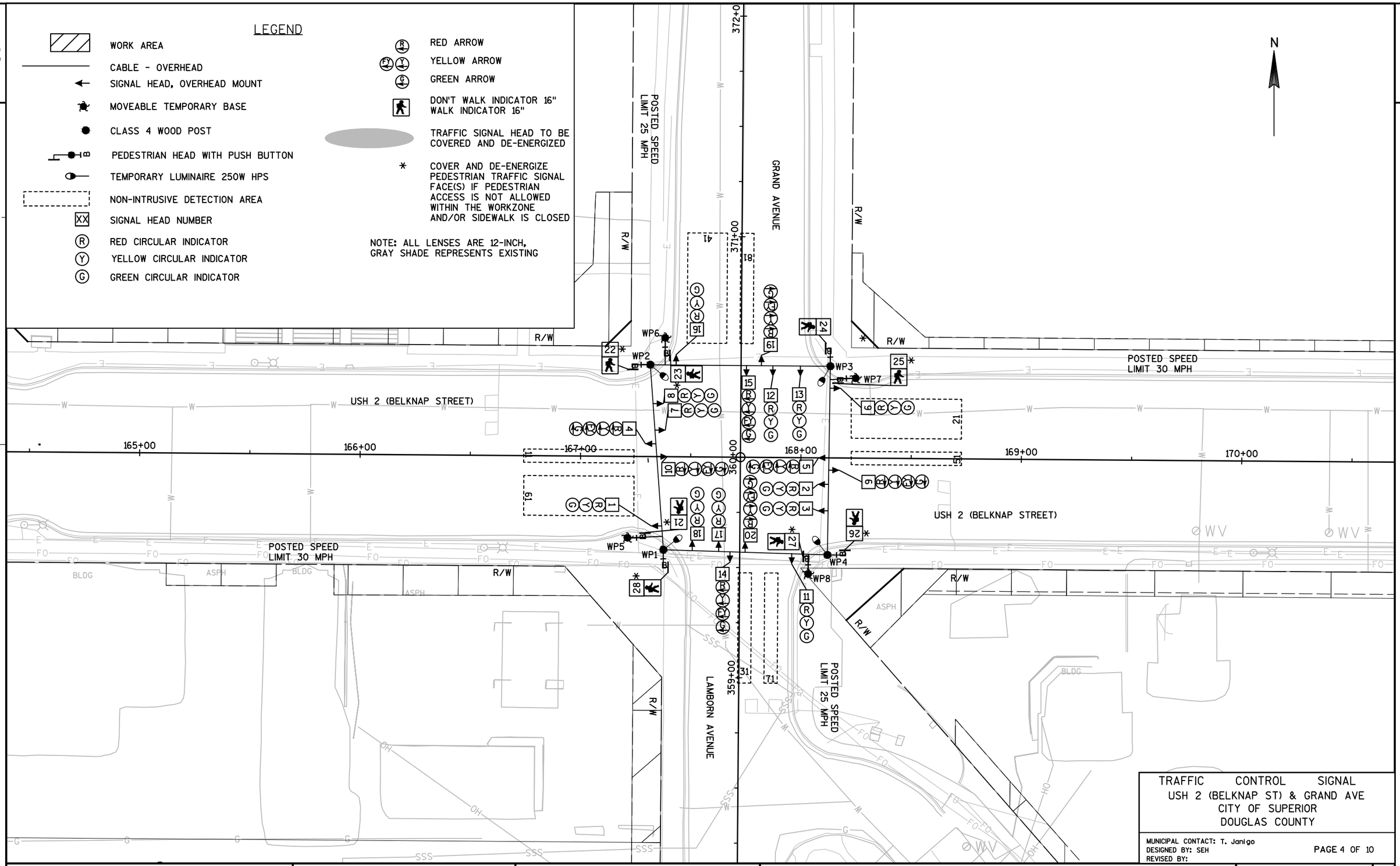
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 4 OF 10

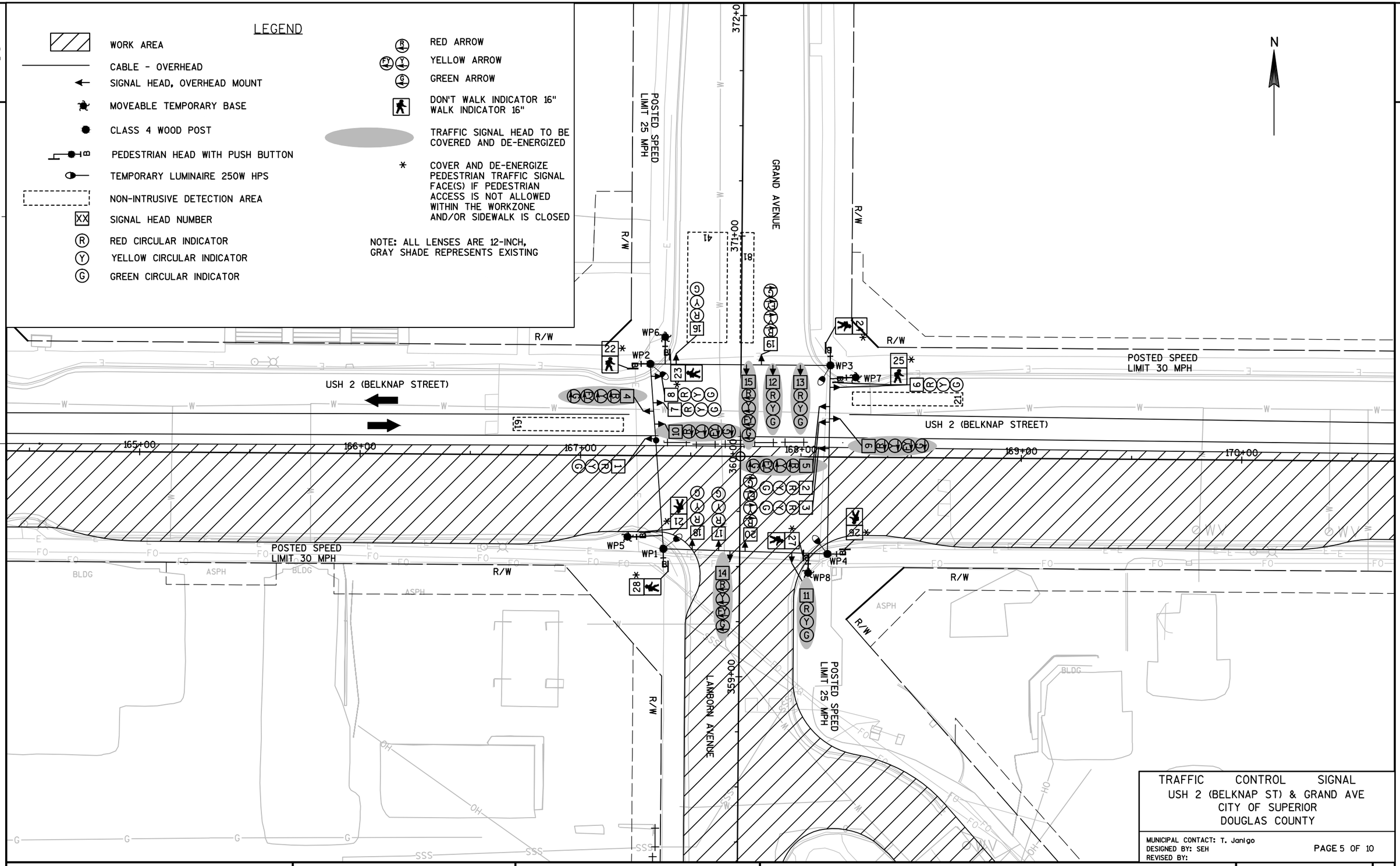
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023913_TS.DWG
PLOT DATE : 7/29/2016 9:05 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 5 OF 10

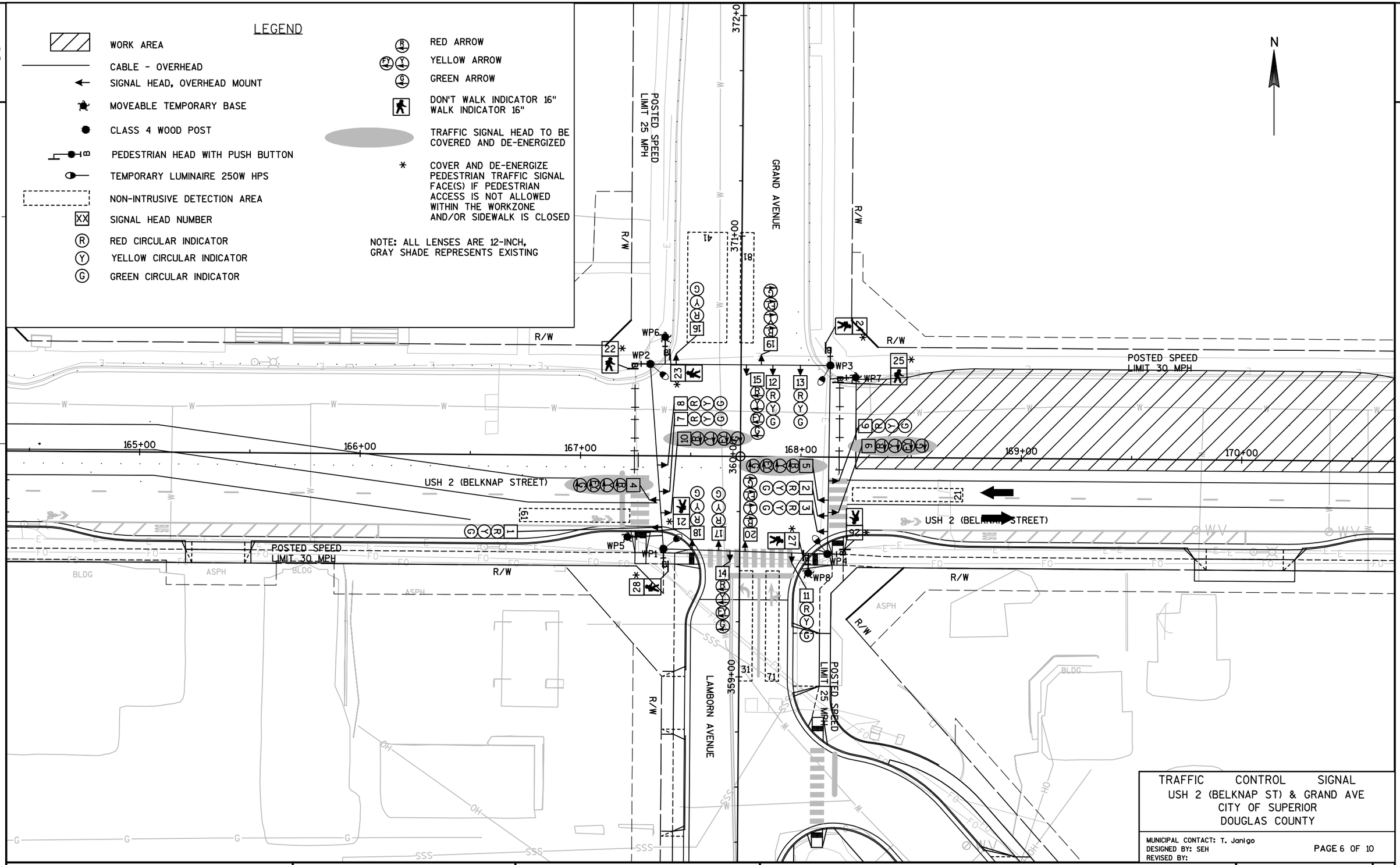
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023914_TS.DWG PLOT DATE : 7/29/2016 9:15 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
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- TEMPORARY LUMINAIRE 250W HPS
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

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PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023915_TS.DWG PLOT DATE : 7/29/2016 8:29 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
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N

POSTED SPEED LIMIT 25 MPH

GRAND AVENUE

R/W

POSTED SPEED LIMIT 30 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

165+00 166+00 167+00 168+00 169+00 170+00

USH 2 (BELKNAP STREET)

LAMBORN AVENUE

ASPH BLDG OH SSS

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

PAGE 7 OF 10

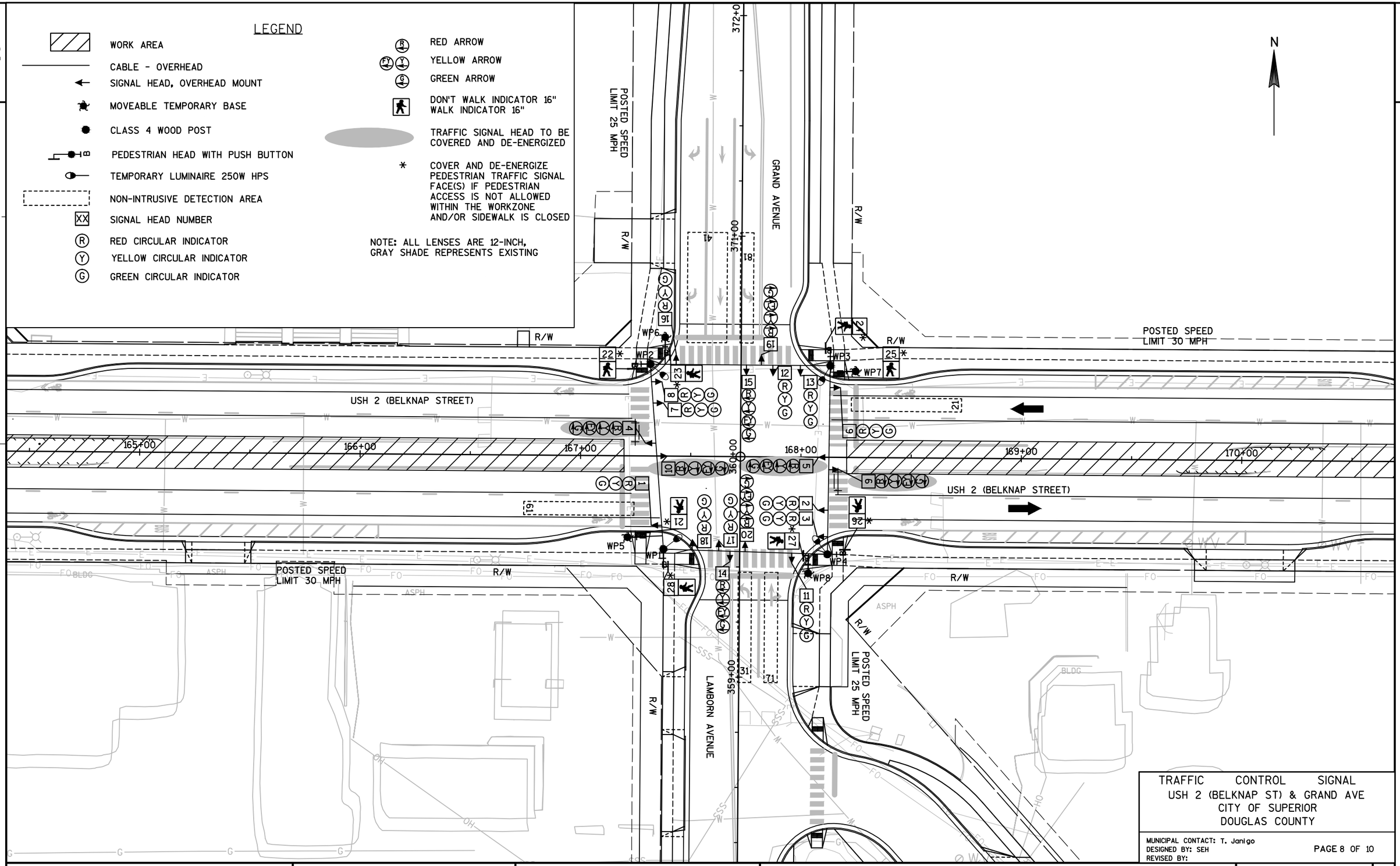
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023916_TS.DWG PLOT DATE : 7/29/2016 9:40 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

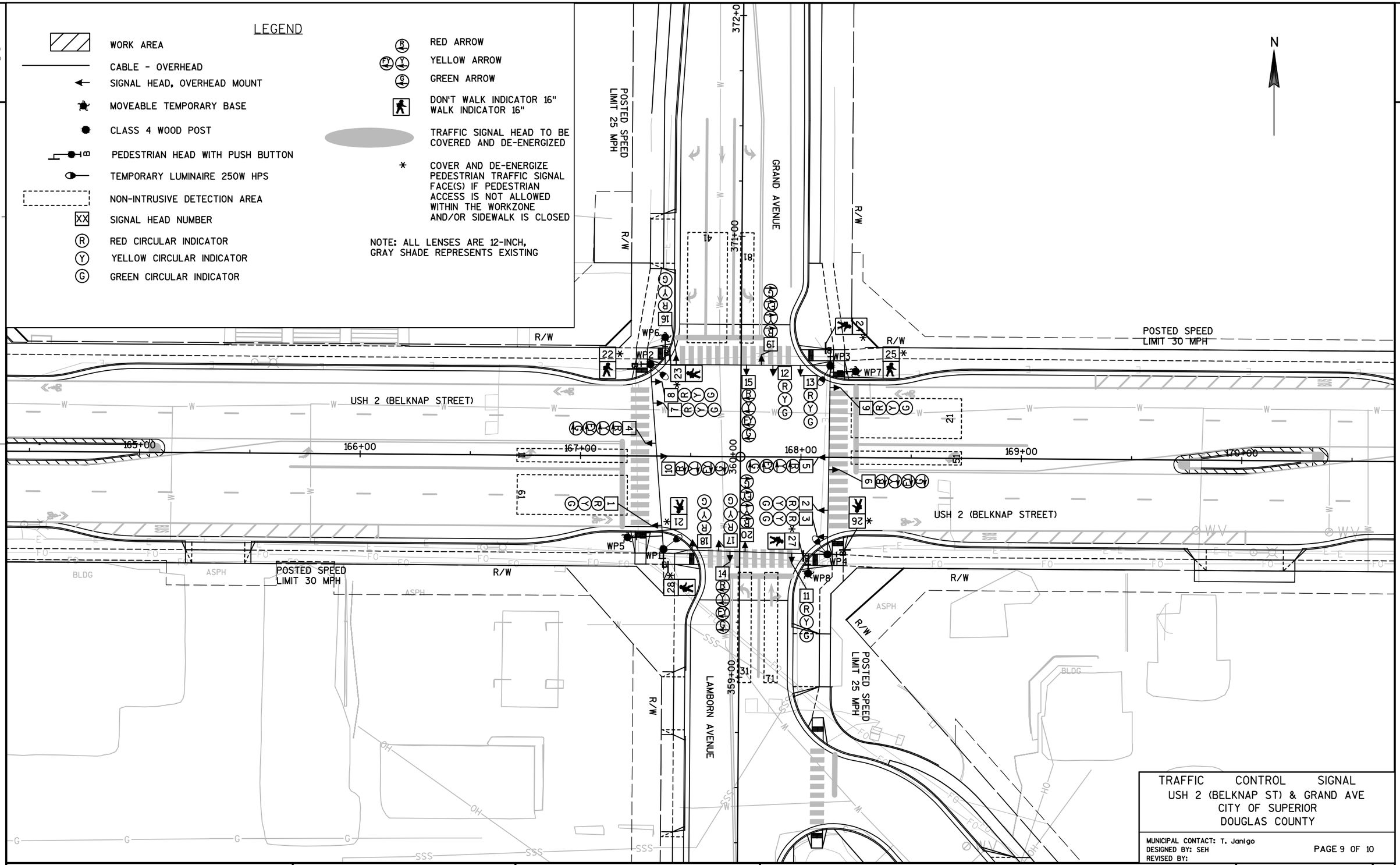
PAGE 8 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET 327	E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

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PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023918_TS.DWG PLOT DATE : 7/29/2016 9:27 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO		Ø2 R/W	Ø2 CLEAR TO		Ø3 R/W	Ø3 CLEAR TO		Ø4 R/W	Ø4 CLEAR TO		FLASH
Ø1	4,5	G	-	-	-	-	-	-	-	-	-	-	-	-
Ø2	6,7,8	R	R	R	G	Y	R	R	R	R	R	R	R	R
Ø3	14,15	-	-	-	-	-	-	G	-	-	-	-	-	-
Ø4	16,17,18	R	R	R	R	R	R	R	R	R	G	Y	R	R
Ø5	9,10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø6	1,2,3	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø7	11,12,13	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø8	19,20	-	-	-	-	-	-	-	-	-	-	-	-	-
OLA	4,5	-	Y	R	FY	Y	R	R	R	R	R	R	R	R
OLB	14,15	R	R	R	R	R	R	-	Y	R	FY	Y	R	R
OLC	9,10	R	R	R	R	R	R	R	R	R	R	R	R	R
OLD	11,12,13	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø2P	23,24	D	D	D	*	D	D	D	D	D	D	D	D	
Ø4P	21,22	D	D	D	D	D	D	D	D	D	*	D	D	
Ø6P	27,28	D	D	D	D	D	D	D	D	D	D	D	D	
Ø7P	25,26	D	D	D	D	D	D	D	D	D	D	D	D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO		Ø6 R/W	Ø6 CLEAR TO		Ø7 R/W	Ø7 CLEAR TO		Ø8 R/W	Ø8 CLEAR TO	
Ø1	4,5	-	-	-	-	-	-	-	-	-	-	-	-
Ø2	6,7,8	R	R	R	R	R	R	R	R	R	R	R	R
Ø3	14,15	R	R	R	R	R	R	R	R	R	R	R	R
Ø4	16,17,18	R	R	R	R	R	R	R	R	R	R	R	R
Ø5	9,10	G	-	-	-	-	-	-	-	-	-	-	-
Ø6	1,2,3	R	R	R	G	Y	R	R	R	R	R	R	R
Ø7	11,12,13	R	R	R	R	R	R	G	Y	R	R	R	R
Ø8	19,20		-	-	-	-	-	-	-	-	G	-	-
OLA	4,5	R	R	R	R	R	R	R	R	R	R	R	R
OLB	14,15	R	R	R	R	R	R	R	R	R	R	R	R
OLC	9,10	-	Y	R	FY	Y	R	R	R	R	R	R	R
OLD	11,12,13	R	R	R	R	R	R	FY	Y	R	-	Y	R
Ø2P	23,24	D	D	D	D	D	D	D	D	D	D	D	D
Ø4P	21,22	D	D	D	D	D	D	D	D	D	D	D	D
Ø6P	27,28	D	D	D	*	D	D	D	D	D	D	D	D
Ø7P	25,26	D	D	D	D	D	D	*	D	D	D	D	D

FY=FLASHING YELLOW

BARRIER

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
31		X			3	3			
41		X			4	4			
51		X			5	5			
61		X			6	6			
71		X			7	7			
81		X			8	8			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3		7		X
4		7		X
5		2		X
6		2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB	3	4
OLC	5	6
OLD	8	7

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7	1,2,4,5,6,8
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	4	1,2,3,5,6,7

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE Ø6/16

FILE NAME : ...\Temp S00\023969_Temp_SP_PH.dgn PLOT DATE : 5/27/2016 11:20:20 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

N

USH 2 (BELKNAP STREET)

CATLIN AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

R/W

ASPH

BLDG

CANOPY

180+00 181+00 182+00 183+00 184+00 185+00

410+00 411+00 412+00 409+00

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 330	E

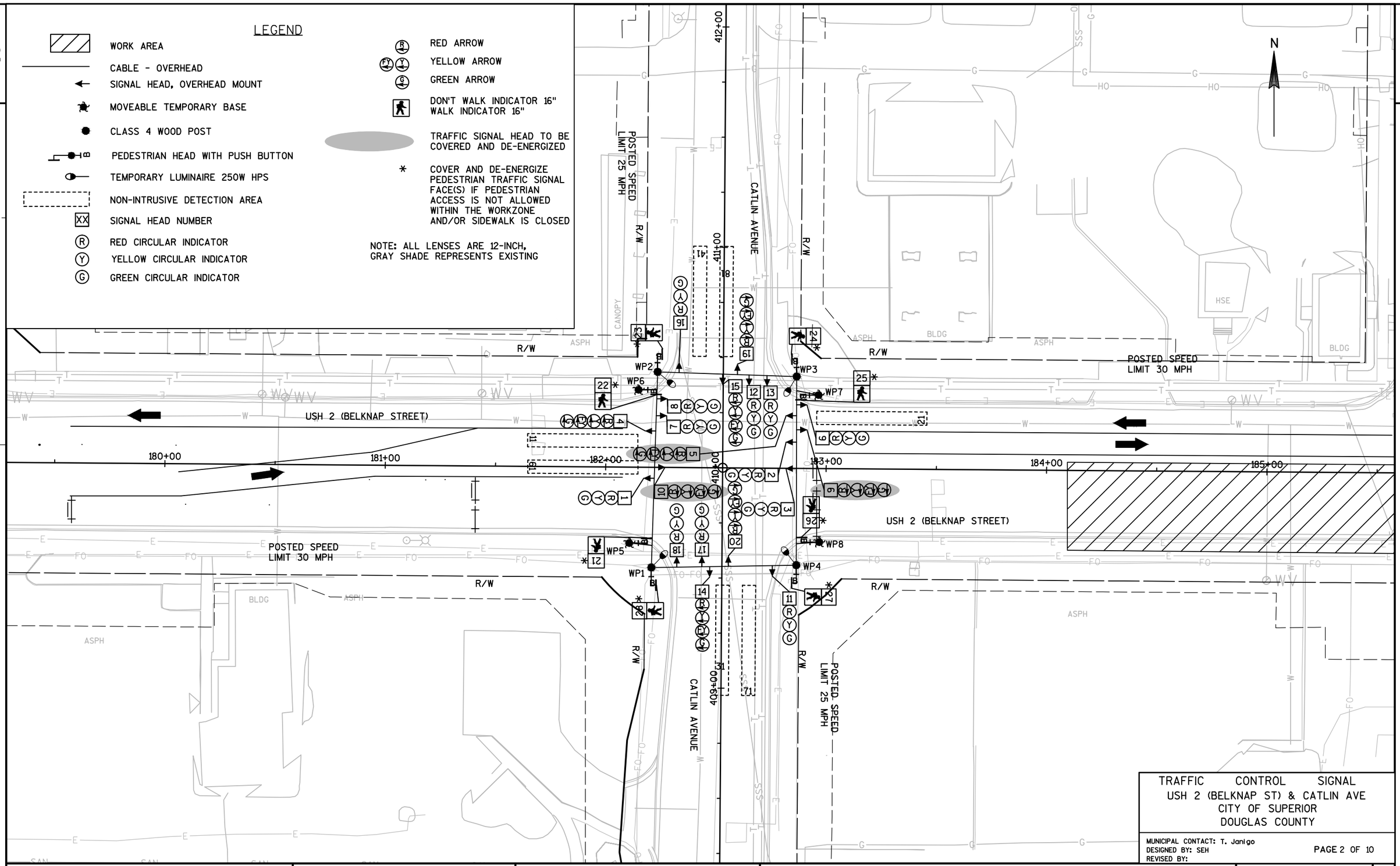
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
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- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023911_TS.DWG
PLOT DATE : 7/29/2016 8:41 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

N

USH 2 (BELKNAP STREET)

CATLIN AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

412+00 411+00 410+00 409+00

180+00 181+00 182+00 183+00 184+00 185+00

R/W ASPH BLDG HSE CANOPY

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 3 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 332	E

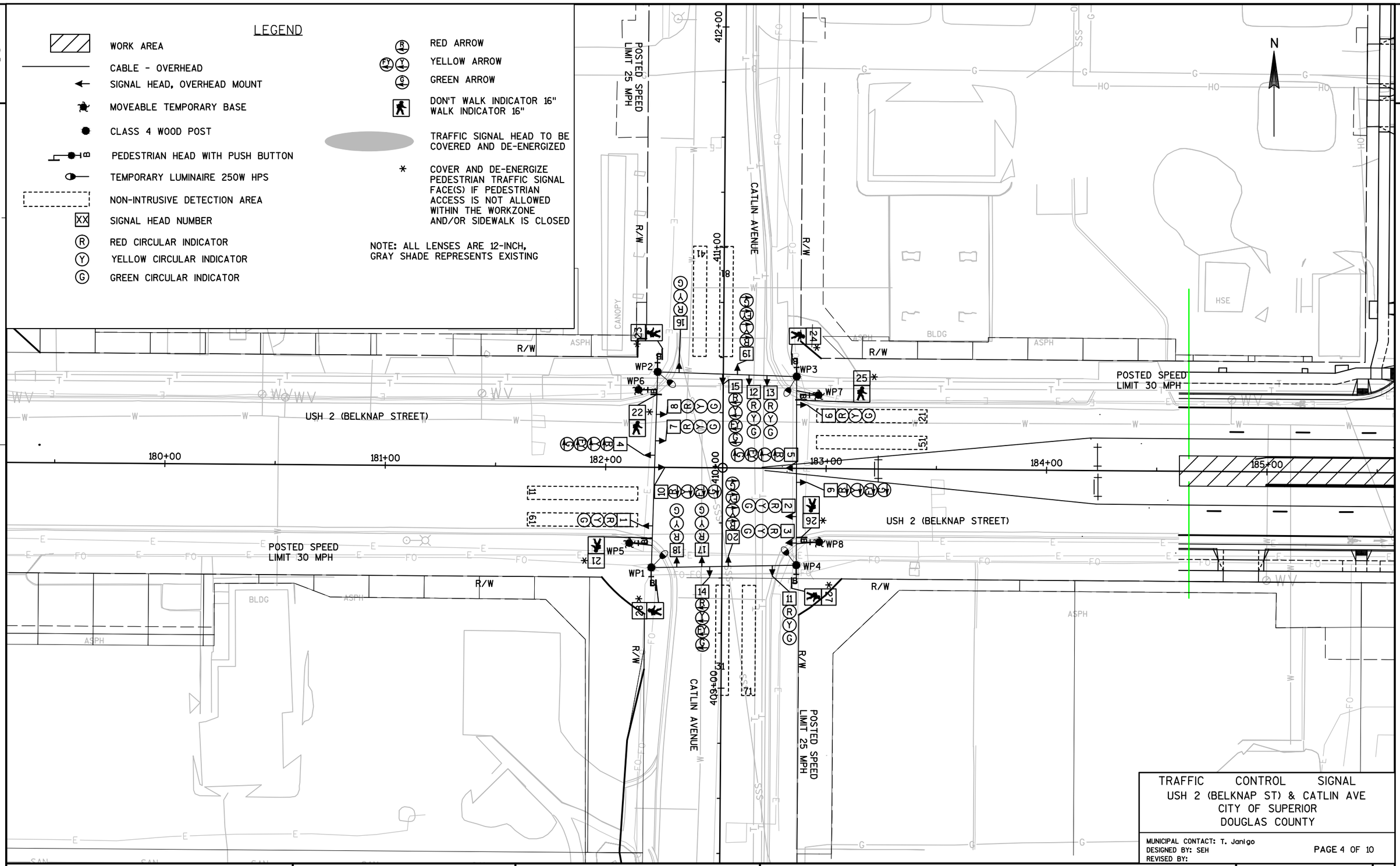
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

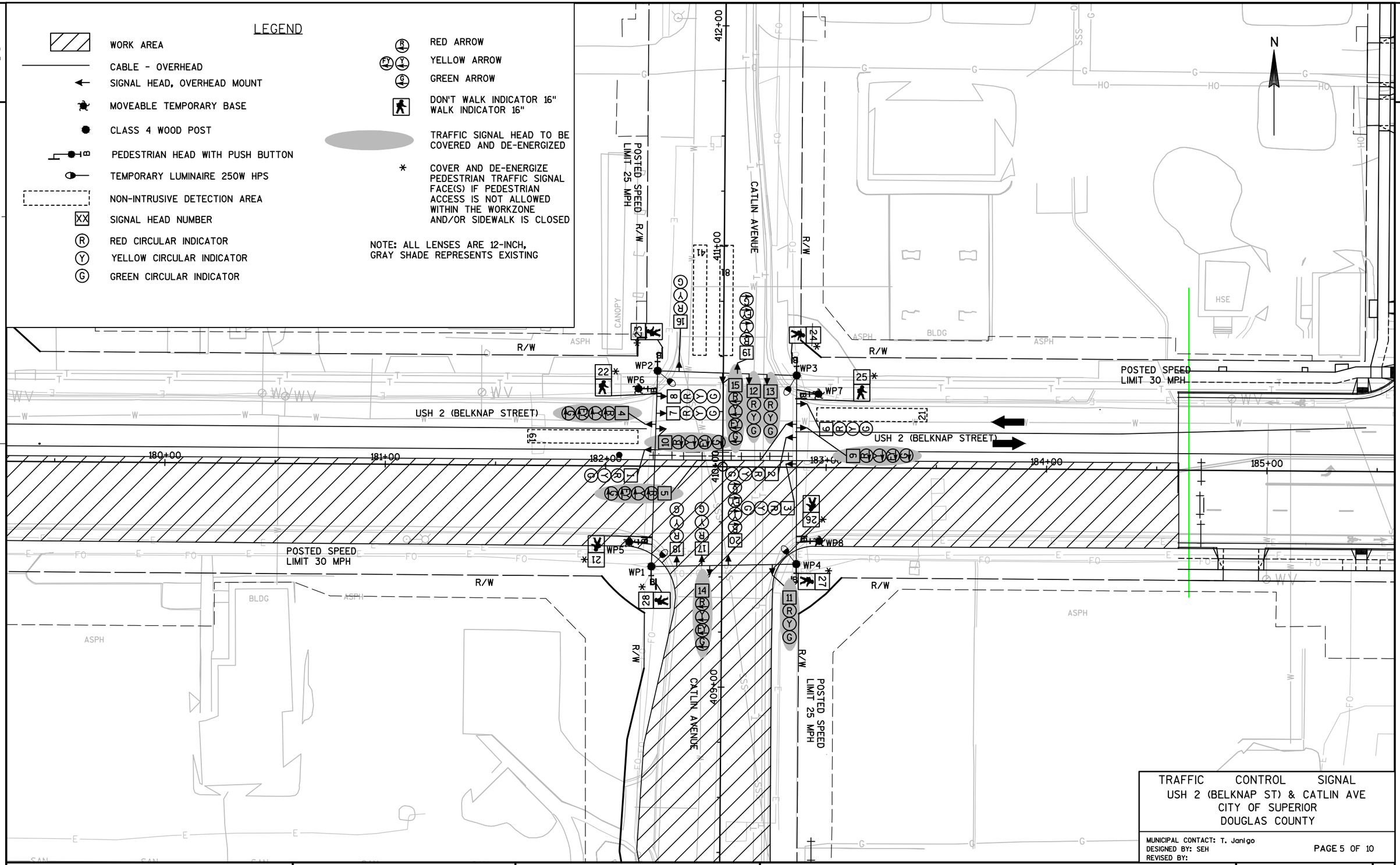
PAGE 4 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 333 E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 5 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 334 E

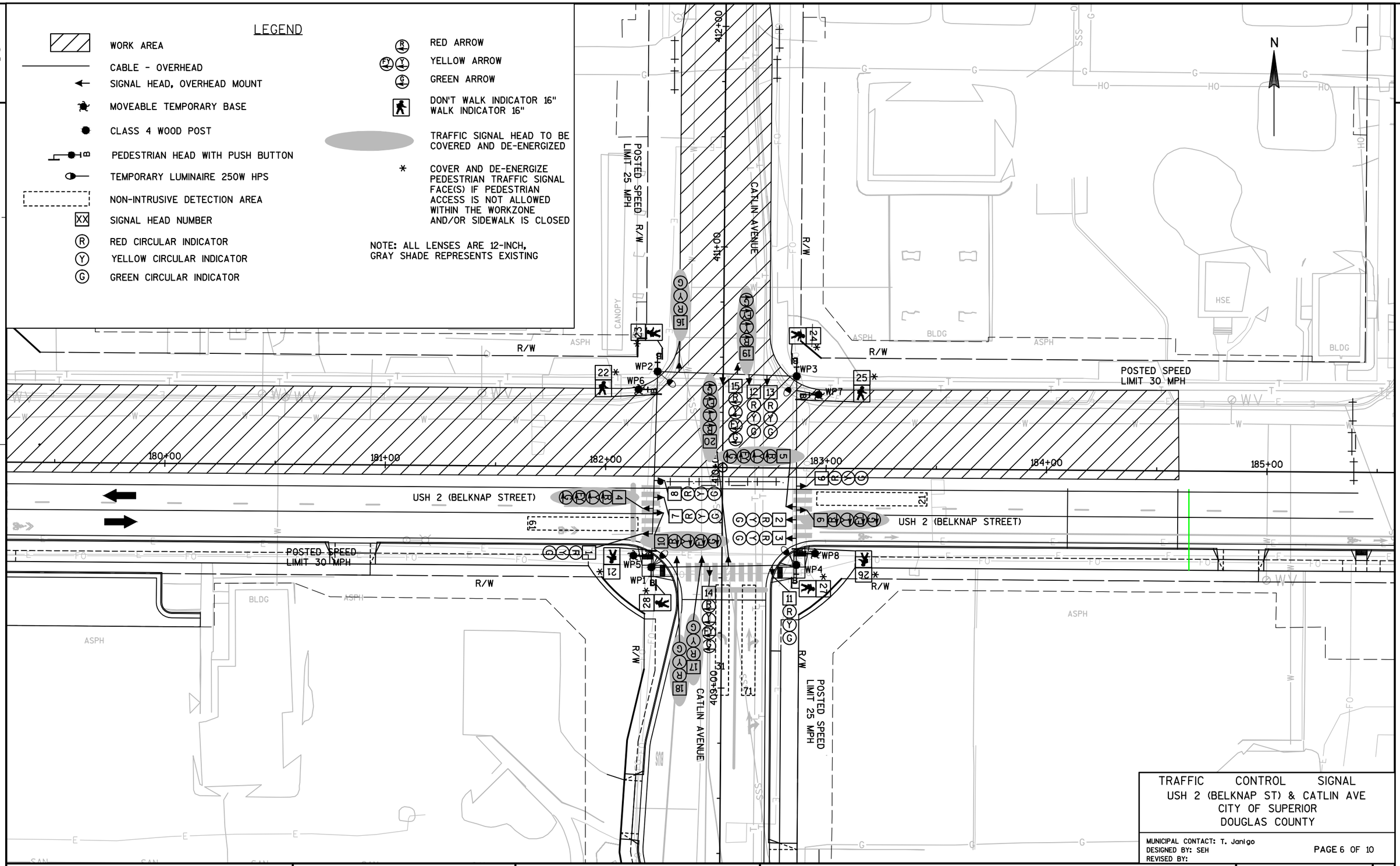
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WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 6 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 335	E

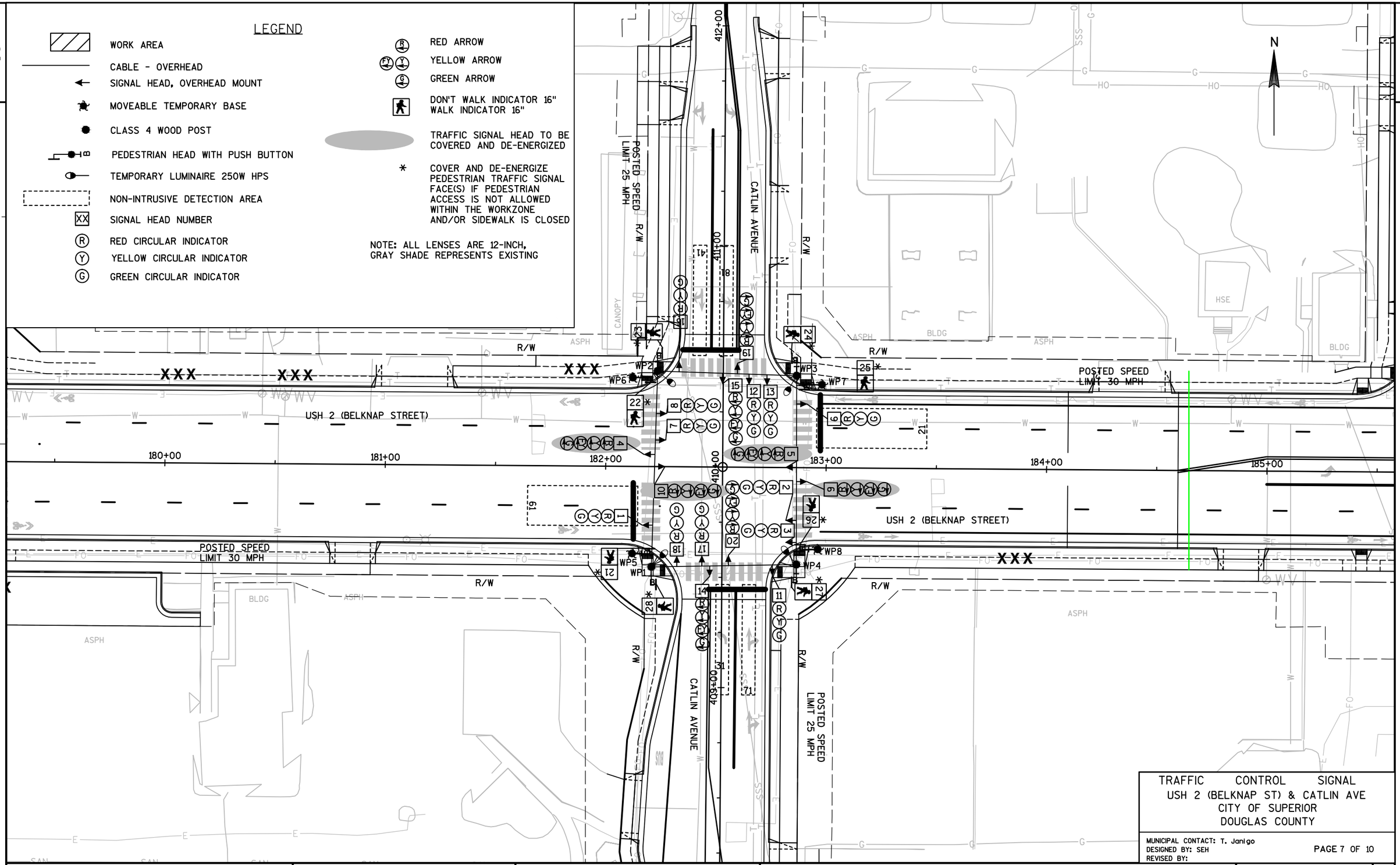
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PLOT DATE : 7/29/2016 8:30 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 7 OF 10

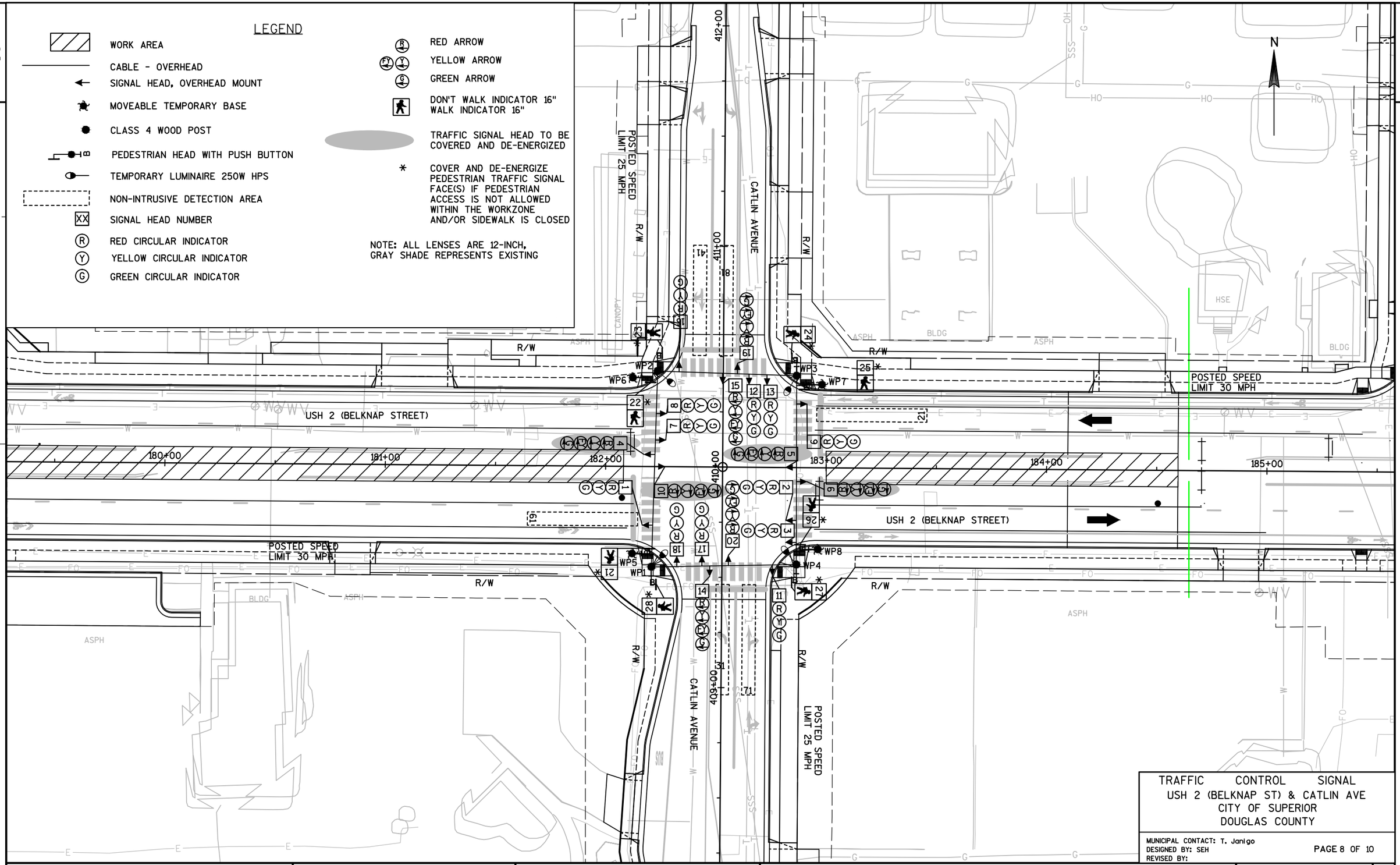
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023916_TS.DWG PLOT DATE : 7/29/2016 9:41 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 8 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET 337	E

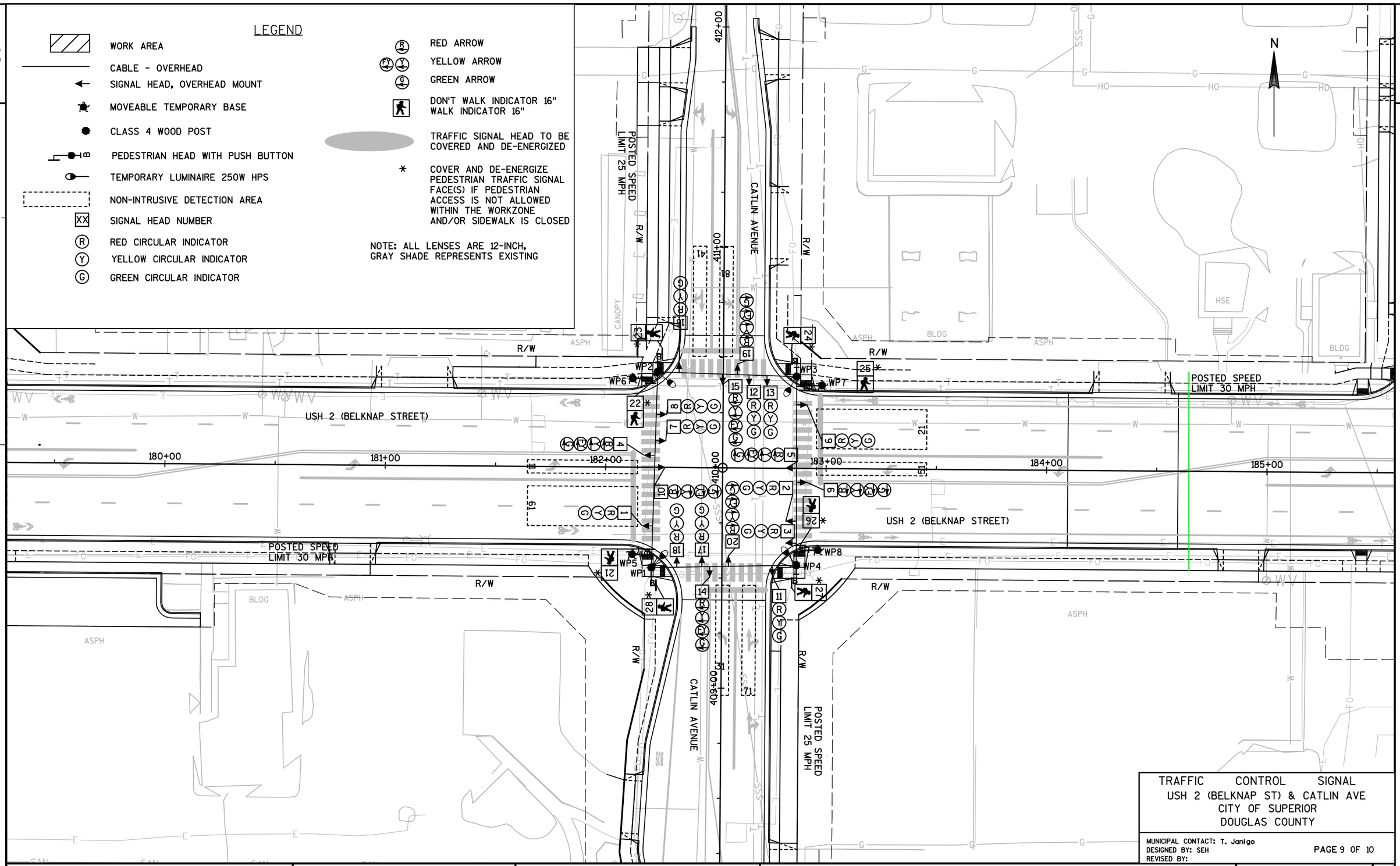
FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023917_TS.DWG PLOT DATE : 7/29/2016 10:01 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 9 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023918_TS.DWG PLOT DATE : 7/29/2016 9:28 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	- -	-	- -	-	- -	-	- -	-
Ø2	6,7,8	R	R R	G	Y R	R	R R	R	R R	R
Ø3	14,15	-	- -	-	- -	G ←	- -	-	- -	-
Ø4	16,17,18	R	R R	R	R R	R	R R	G	Y R	R
Ø5	9,10	-	- -	-	- -	-	- -	-	- -	-
Ø6	1,2,3	R	R R	R	R R	R	R R	R	R R	R
Ø7	11,12,13	R	R R	R	R R	R	R R	R	R R	R
Ø8	19,20	-	- -	-	- -	-	- -	-	- -	-
OLA	4,5	-	Y R	FY	Y R	R ←	R R ←	R ←	R R ←	R ←
OLB	14,15	R ←	R R ←	R ←	R R ←	-	Y R	FY ←	Y R ←	R ←
OLC	9,10	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←
OLD	11,12,13	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←
Ø2P	23,24	D	D D	*	D D	D	D D	D	D D	
Ø4P	21,22	D	D D	D	D D	D	D D	*	D D	
Ø6P	27,28	D	D D	D	D D	D	D D	D	D D	
Ø7P	25,26	D	D D	D	D D	D	D D	D	D D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	4,5	-	- -	-	- -	-	- -	-	- -
Ø2	6,7,8	R	R R	R	R R	R	R R	R	R R
Ø3	14,15	R	R R	R	R R	R	R R	R	R R
Ø4	16,17,18	R	R R	R	R R	R	R R	R	R R
Ø5	9,10	G ←	- -	-	- -	-	- -	-	- -
Ø6	1,2,3	R	R R	G	Y R	R	R R	R	R R
Ø7	11,12,13	R	R R	R	R R	G	Y R	R	R R
Ø8	19,20	-	- -	-	- -	-	- -	G ←	- -
OLA	4,5	R ←	R R ←	R ←	R R ←	R	R R	R ←	R R ←
OLB	14,15	R ←	R R ←	R ←	R R ←	R	R R	R ←	R R ←
OLC	9,10	-	Y R	FY ←	Y R ←	R	R R	R ←	R R ←
OLD	11,12,13	R ←	R R ←	R ←	R R ←	FY ←	Y R ←	-	Y R ←
Ø2P	23,24	D	D D	D	D D	D	D D	D	D D
Ø4P	21,22	D	D D	D	D D	D	D D	D	D D
Ø6P	27,28	D	D D	*	D D	D	D D	D	D D
Ø7P	25,26	D	D D	D	D D	*	D D	D	D D

FY=FLASHING YELLOW

BARRIER

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
31		X			3	3			
41		X			4	4			
51		X			5	5			
61		X			6	6			
71		X			7	7			
81		X			8	8			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3		7		X
4		7		X
5		2		X
6		2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB	3	4
OLC	5	6
OLD	8	7

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

N

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7	1,2,4,5,6,8
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,7,8
8	4	1,2,3,5,6,7

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE Ø6/16

FILE NAME : ...\Temp S00\023979_Temp_SP_PH.dgn PLOT DATE : 5/27/2016 11:20:22 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET, & HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
4. DETECTION AREAS ARE APPROXIMATE. ZONES SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH FIELD CONDITIONS.
5. TEMPORARY DETECTORS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE MANUFACTURER IN THE SPECIFICATIONS.
6. THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT (715-394-0244) SHALL BE NOTIFIED 5 WORKING DAYS BEFORE SWITCH TO TEMPORARY TRAFFIC SIGNALS.
7. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
9. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POLE OR POST.
10. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
11. MAINTAIN 12 FOOT VERTICAL CLEARANCE BETWEEN SIDEWALK AND OVERHEAD LINES

N

USH 2 (BELKNAP STREET)
HILL AVENUE
POSTED SPEED LIMIT 25 MPH
POSTED SPEED LIMIT 30 MPH
206+00
207+00
208+00
209+00
210+00
494+00
495+00
502+00
R/W
WP1
WP2
WP3
WP4
WP5
WP6
WP7
WP8
WP9
WP10
WP11

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-CONSTRUCTION	SHEET 340 E

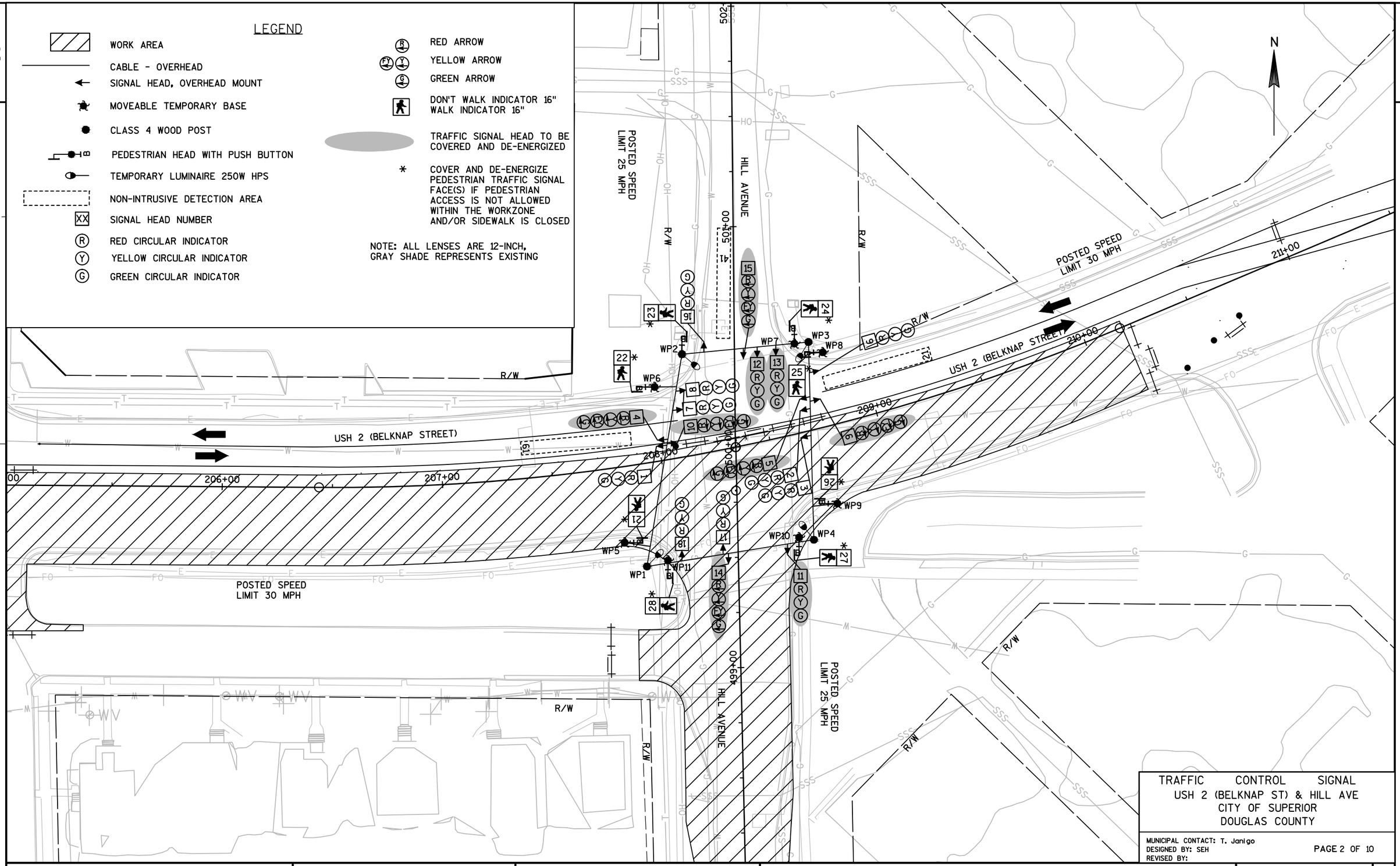
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PLOT DATE : 7/28/2016 4:45 PM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- * COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORKZONE AND/OR SIDEWALK IS CLOSED

NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 341	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023911_TS.DWG PLOT DATE : 7/29/2016 8:42 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
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NOTE: ALL LENSES ARE 12-INCH, GRAY SHADE REPRESENTS EXISTING

N

HILL AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

USH 2 (BELKNAP STREET)

A HAYES CT

ONE-WAY

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WR1 WR11

206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 3 OF 10

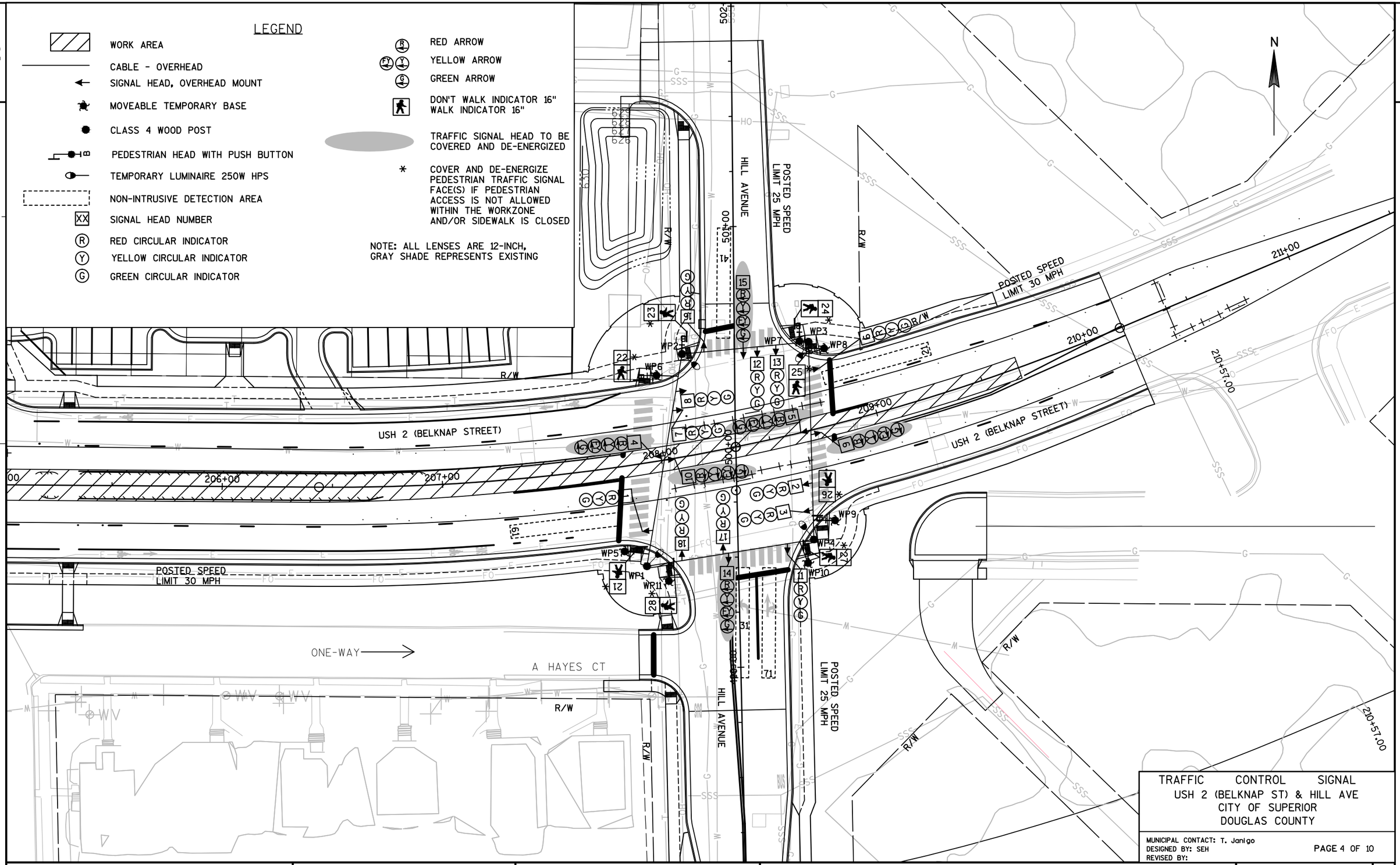
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 342 E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023912_TS.DWG PLOT DATE : 7/29/2016 8:53 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
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REVISED BY:

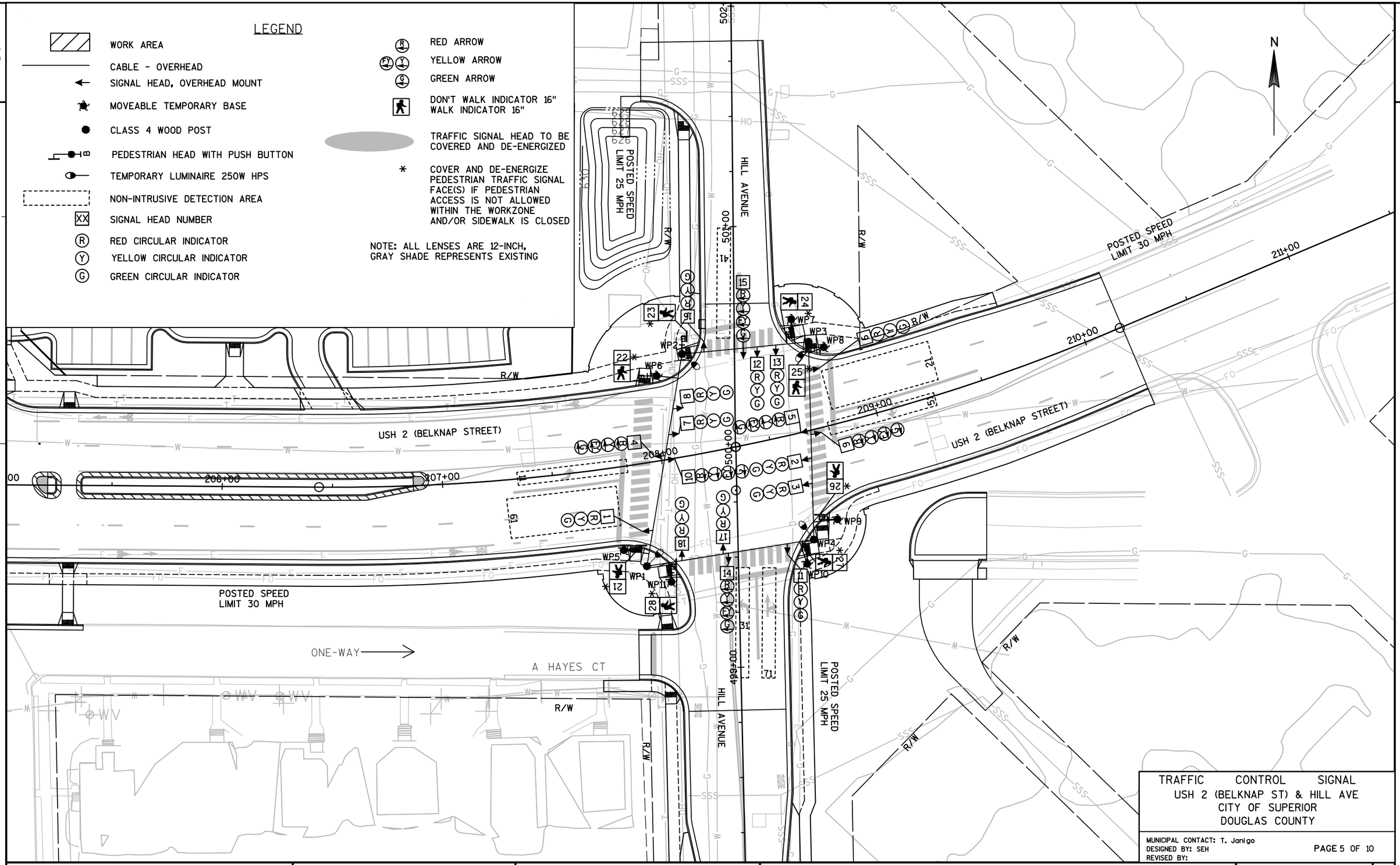
PAGE 4 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 343	E

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
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PAGE 5 OF 10

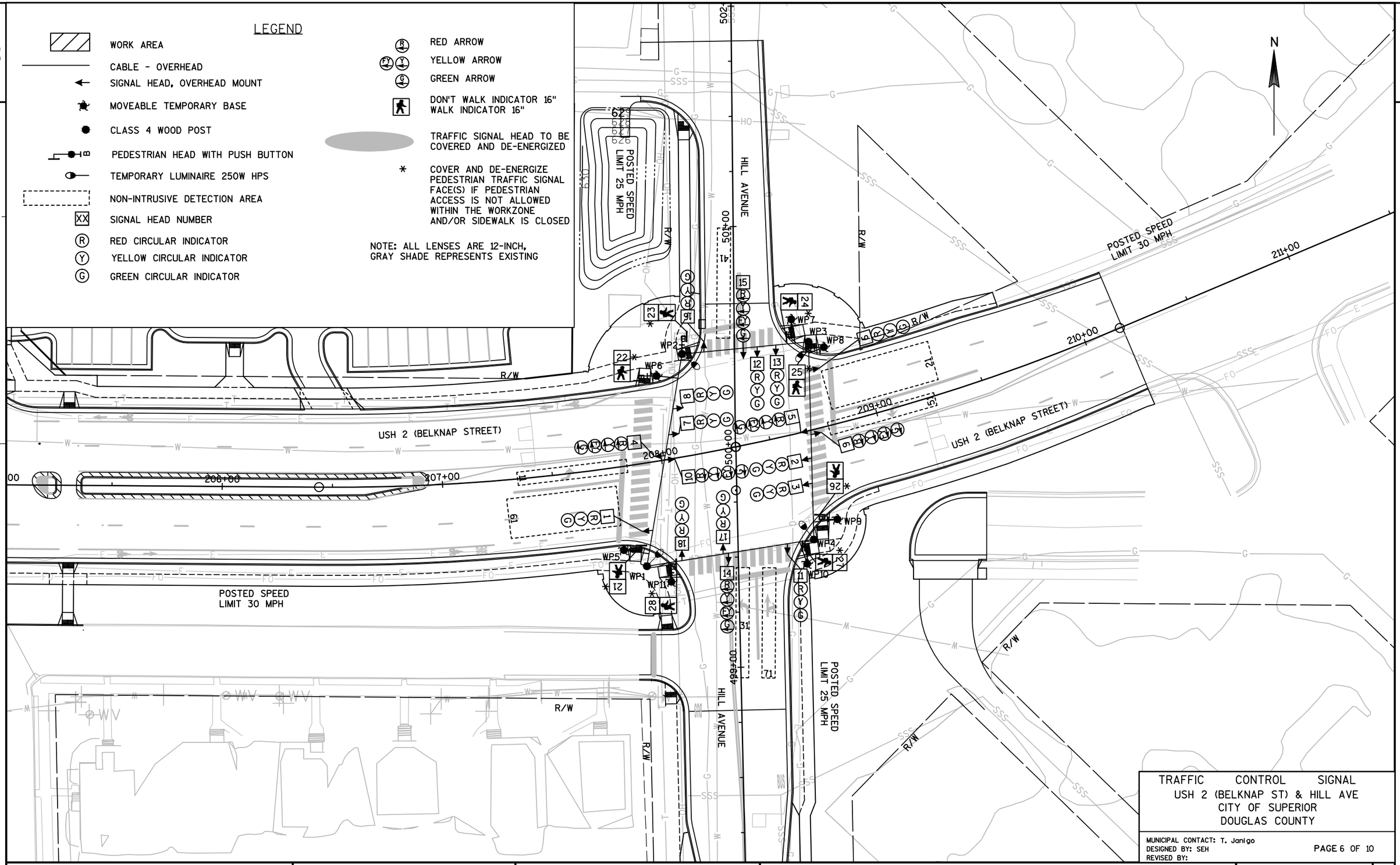
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 344 E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023914_TS.DWG
PLOT DATE : 7/29/2016 9:16 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 6 OF 10

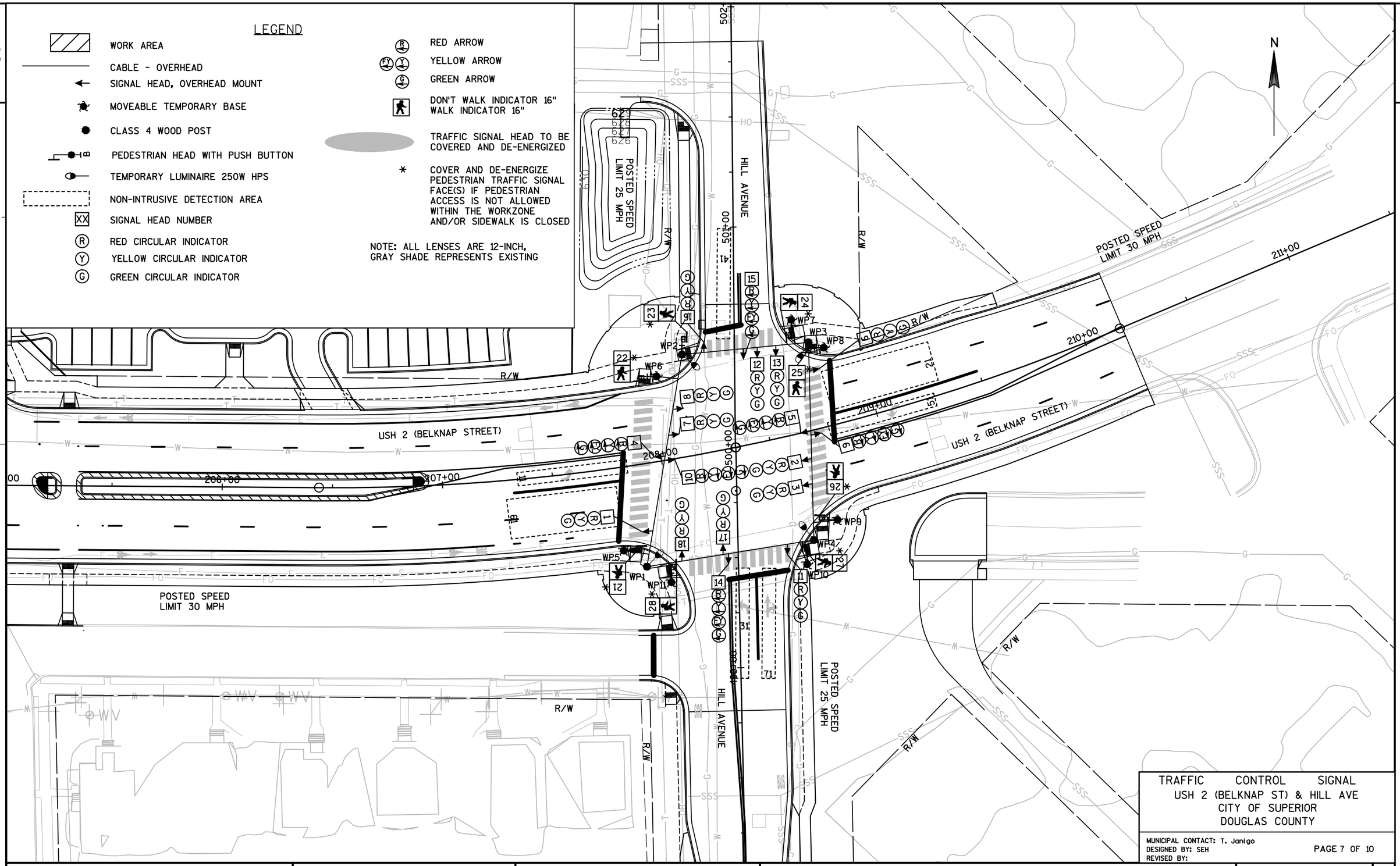
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023915_TS.DWG PLOT DATE : 7/29/2016 8:30 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

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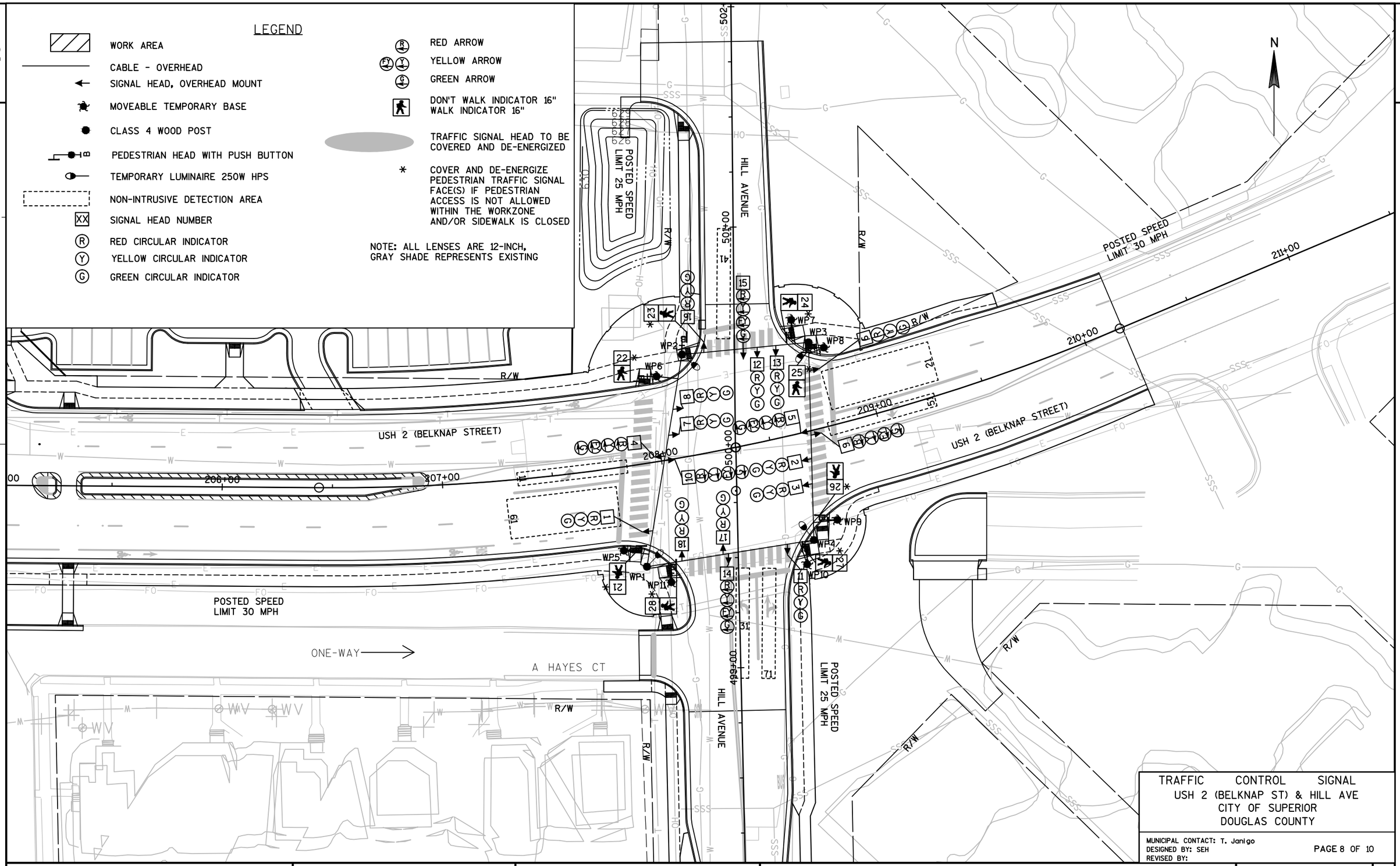
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FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\023916_TS.DWG
PLOT DATE : 7/29/2016 9:41 AM
PLOT BY : GINA SHOWERS
PLOT NAME :
PLOT SCALE : 1 IN = 40 FT
WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
- XX SIGNAL HEAD NUMBER
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- (G) GREEN CIRCULAR INDICATOR
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 8 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 7	SHEET 347 E

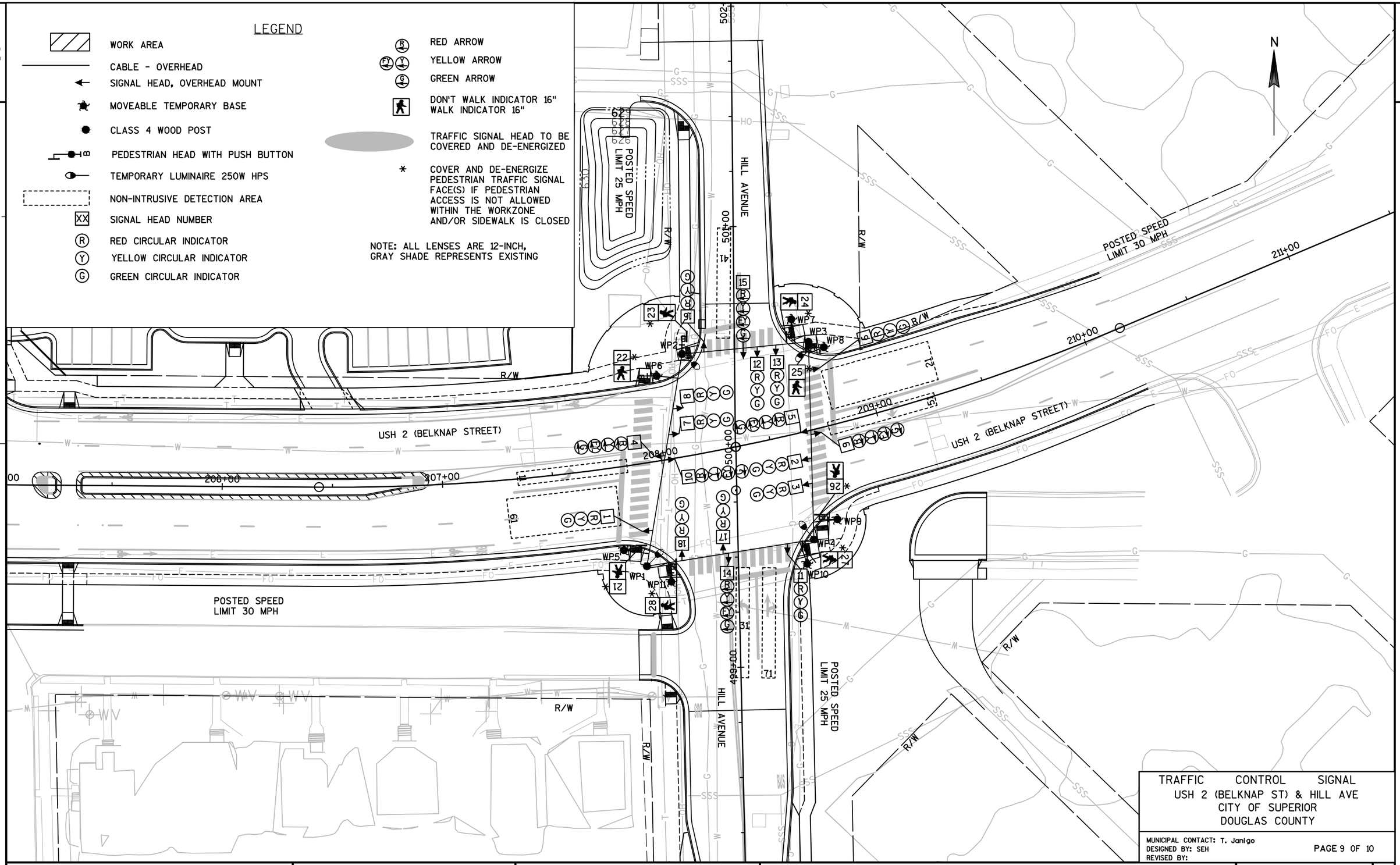
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PLOT DATE : 7/29/2016 10:02 AM PLOT BY : GINA SHOWERS PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK AREA
- CABLE - OVERHEAD
- SIGNAL HEAD, OVERHEAD MOUNT
- MOVEABLE TEMPORARY BASE
- CLASS 4 WOOD POST
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE 250W HPS
- NON-INTRUSIVE DETECTION AREA
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TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 9 OF 10

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TEMPORARY TRAFFIC SIGNAL PLAN - POST-CONSTRUCTION	SHEET 348 E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	- -	-	- -	-	- -	-	- -	-
Ø2	6,7,8	R	R R	G	Y R	R	R R	R	R R	R
Ø3	14,15	-	- -	-	- -	G ←	- -	-	- -	-
Ø4	16,17,18	R	R R	R	R R	R	R R	G	Y R	R
Ø5	9,10	-	- -	-	- -	-	- -	-	- -	-
Ø6	1,2,3	R	R R	R	R R	R	R R	R	R R	R
Ø7	11,12,13	R	R R	R	R R	R	R R	R	R R	R
Ø8										
OLA	4,5	-	Y R ←	FY ←	Y R ←	R ←	R R ←	R ←	R R ←	R ←
OLB	14,15	R ←	R R ←	R ←	R R ←	-	Y R ←	FY ←	Y R ←	R ←
OLC	9,10	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←	R R ←	R ←
OLD										
Ø2P	23,24	D	D D	*	D D	D	D D	D	D D	
Ø4P	21,22	D	D D	D	D D	D	D D	*	D D	
Ø6P	27,28	D	D D	D	D D	D	D D	D	D D	
Ø7P	25,26	D	D D	D	D D	D	D D	D	D D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	4,5	-	- -	-	- -	-	- -		
Ø2	6,7,8	R	R R	R	R R	R	R R		
Ø3	14,15	R	R R	R	R R	R	R R		
Ø4	16,17,18	R	R R	R	R R	R	R R		
Ø5	9,10	G ←	- -	-	- -	-	- -		
Ø6	1,2,3	R	R R	G	Y R	R	R R		
Ø7	11,12,13	R	R R	R	R R	G	Y R		
Ø8									
OLA	4,5	R ←	R R ←	R ←	R R ←	R ←	R R ←		
OLB	14,15	R ←	R R ←	R ←	R R ←	R ←	R R ←		
OLC	9,10	-	Y R ←	FY ←	Y R ←	R ←	R R ←		
OLD									
Ø2P	23,24	D	D D	D	D D	D	D D		
Ø4P	21,22	D	D D	D	D D	D	D D		
Ø6P	27,28	D	D D	*	D D	D	D D		
Ø7P	25,26	D	D D	D	D D	*	D D		

FY=FLASHING YELLOW

BARRIER

NOT USED

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21		X			2	2			
31		X			3	3			
41		X			4	4			
51		X			5	5			
61		X			6	6			
71		X			7	7			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN.	X
3		7		X
4		7		X
5		2		X
6		2	MIN.	X
7		4		X
8				

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OLA	1	2
OLB	3	4
OLC	5	6

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	X
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
QUEUE DETECTOR	
LIFT BRIDGE	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7
2	5 OR 6	1,3,4,7
3	7	1,2,4,5,6
4	7	1,2,3,5,6
5	1 OR 2	3,4,6,7
6	1 OR 2	3,4,5,7
7	3 OR 4	1,2,5,6
8		

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. WHEN OPPOSING THRU PHASES ARE TIMING CONCURRENTLY THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE 06/16

FILE NAME : ...\Temp S00\023989_Temp_SP_PH.dgn PLOT DATE : 5/27/2016 11:20:26 AM PLOT BY : SEH INC PLOT NAME : PLOT SCALE : Invalid expression

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER. CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

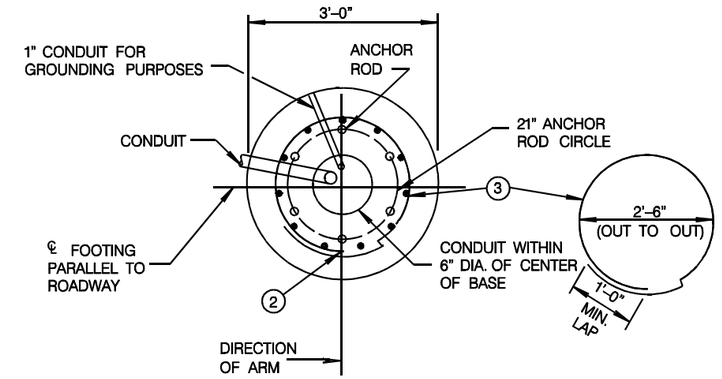
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

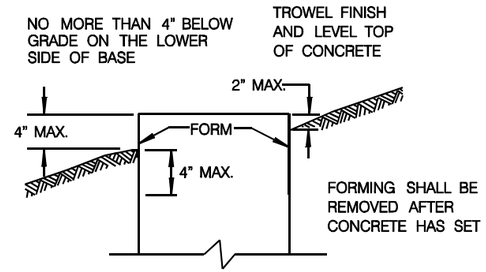
(2) (11) NO. 8 X 16'-1" BAR STEEL REINFORCEMENT.

(3) (17) NO. 4 X 9'-0" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

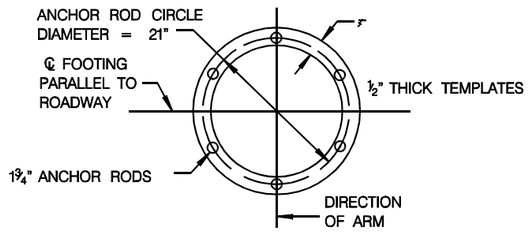
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, AASHTO M314 GRADE 55	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.



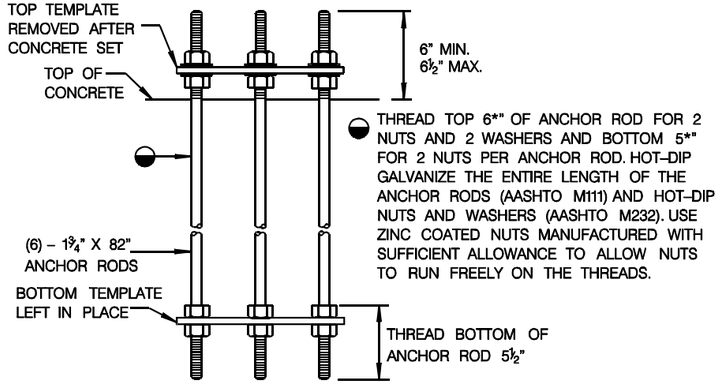
CONCRETE BASE TYPE 10 SPECIAL



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 SPECIAL

ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	4.32
LBS. OF HOOP BAR STEEL	103
LBS. OF VERTICAL BAR STEEL	473

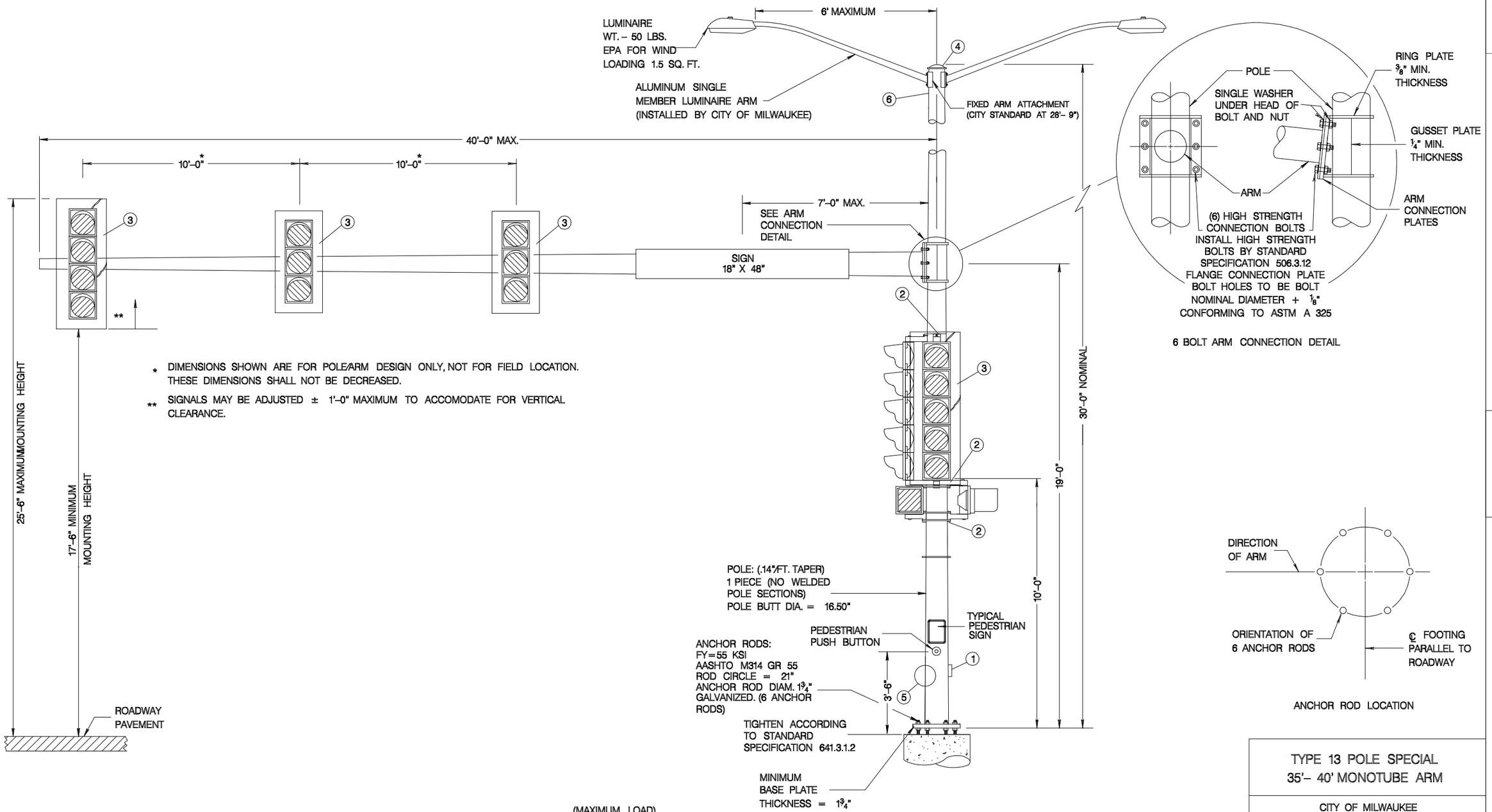
CONCRETE BASE TYPE 10 SPECIAL

CITY OF MILWAUKEE
DEPARTMENT OF PUBLIC WORKS

APPROVED

DATE

FHWA



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'–0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

6 BOLT ARM CONNECTION DETAIL

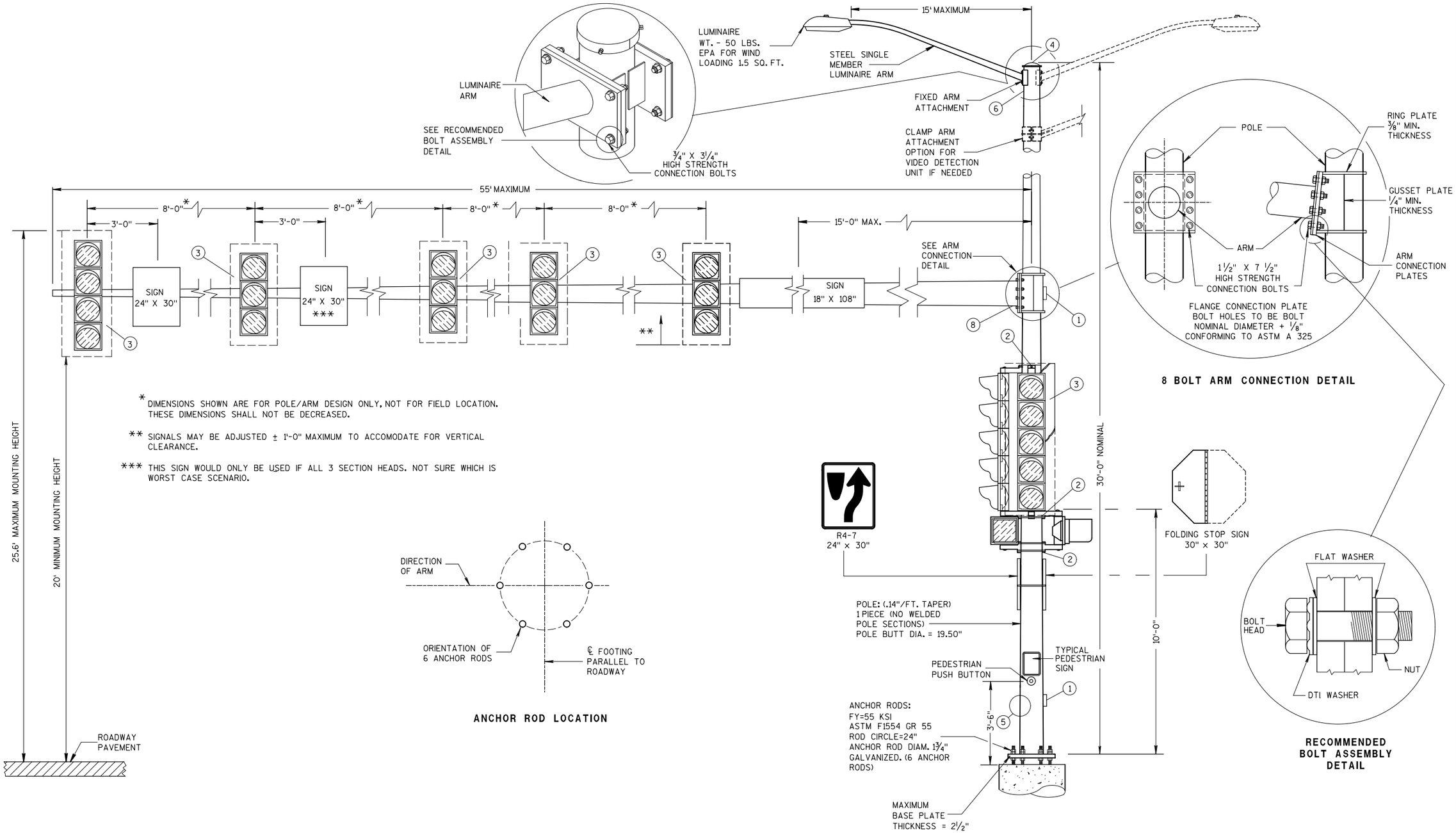
ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 13 POLE SPECIAL
35'– 40' MONOTUBE ARM

TYPE 13 POLE SPECIAL 35'– 40' MONOTUBE ARM
CITY OF MILWAUKEE DEPARTMENT OF PUBLIC WORKS
APPROVED DATE FHWA

2



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

*** THIS SIGN WOULD ONLY BE USED IF ALL 3 SECTION HEADS. NOT SURE WHICH IS WORST CASE SCENARIO.

ANCHOR ROD LOCATION

8 BOLT ARM CONNECTION DETAIL

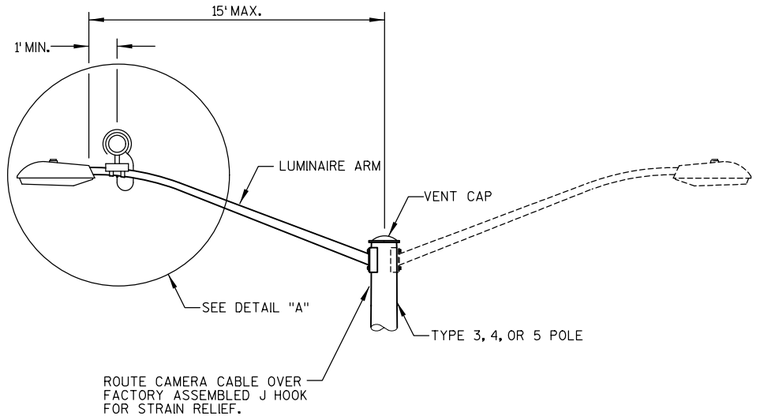
RECOMMENDED BOLT ASSEMBLY DETAIL

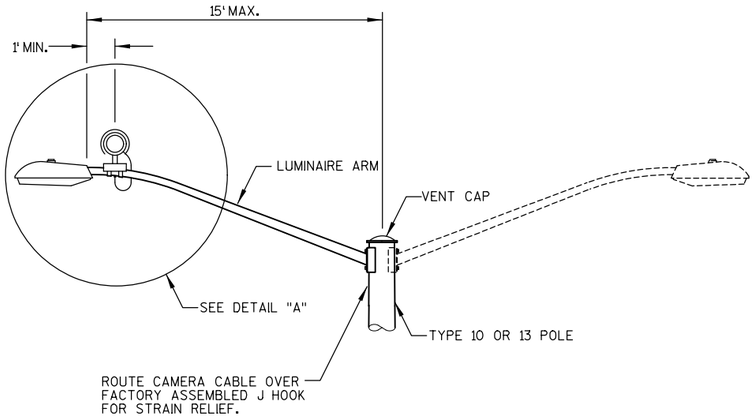
(MAXIMUM LOAD)

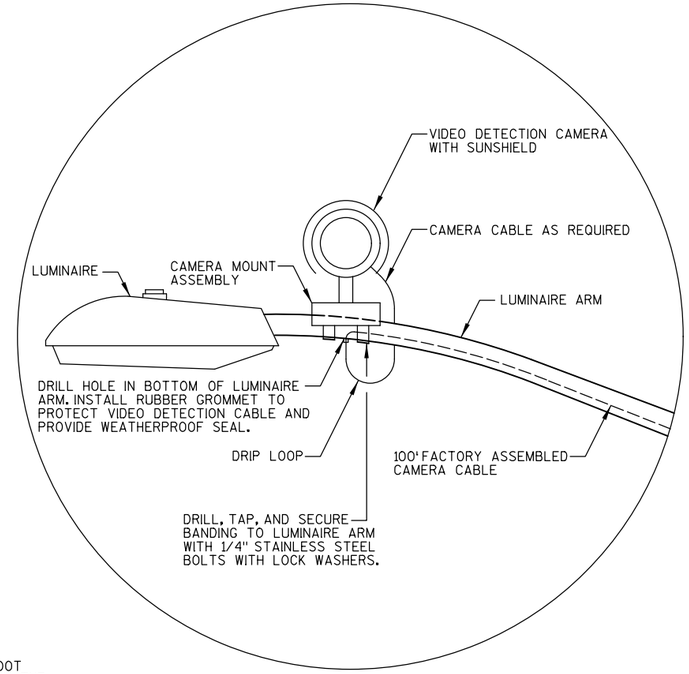
TYPE 13 POLE 35'- 55' MONOTUBE ARM

USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE) - SB2 AND SB7

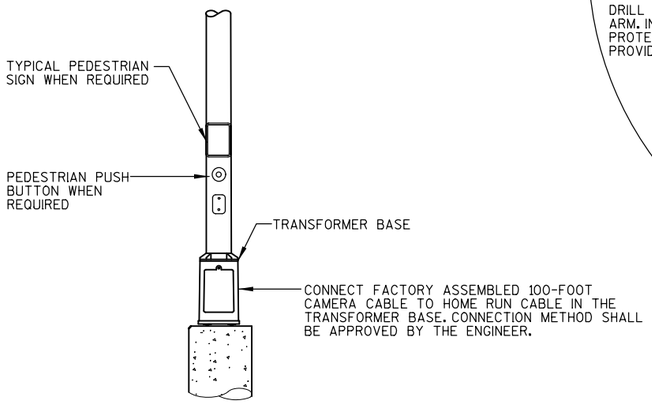
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL DETAILS	SHEET 352	E



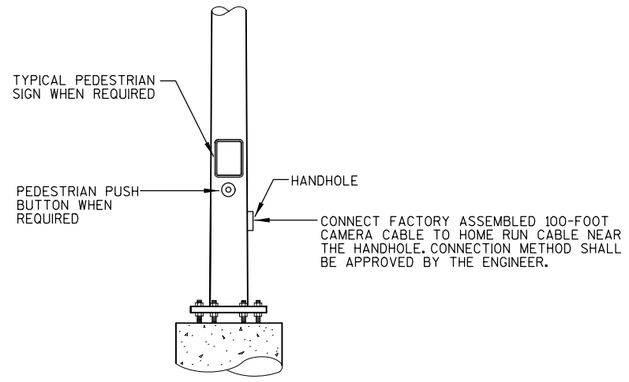




DETAIL "A"

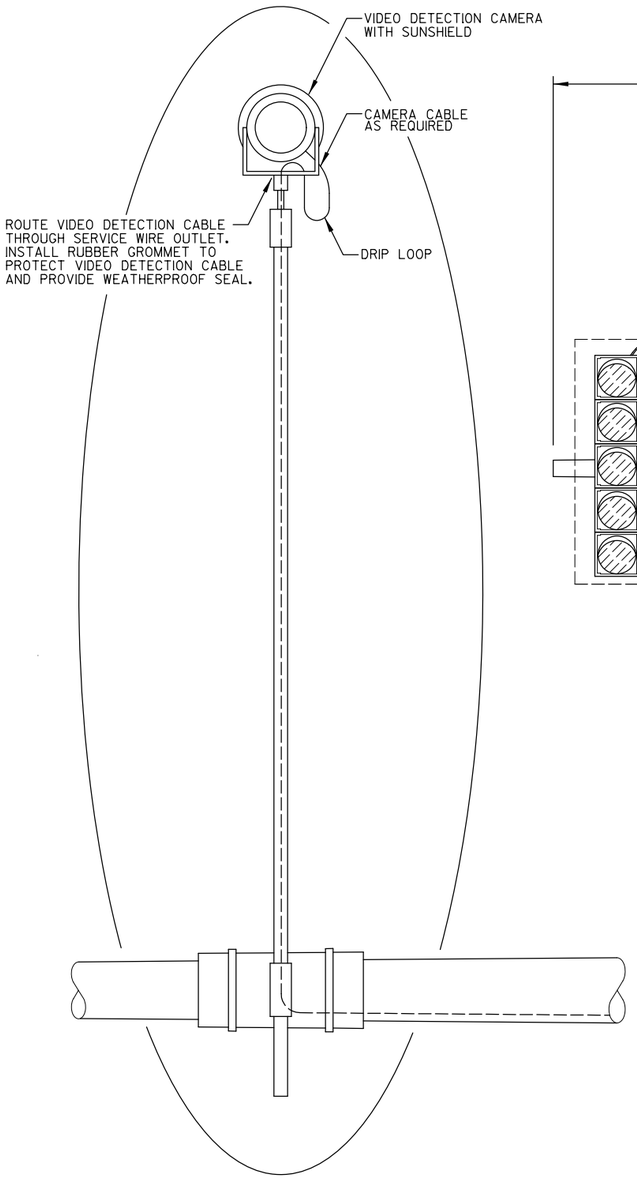


TYPE 3, 4, OR 5
MOUNTING CONFIGURATION

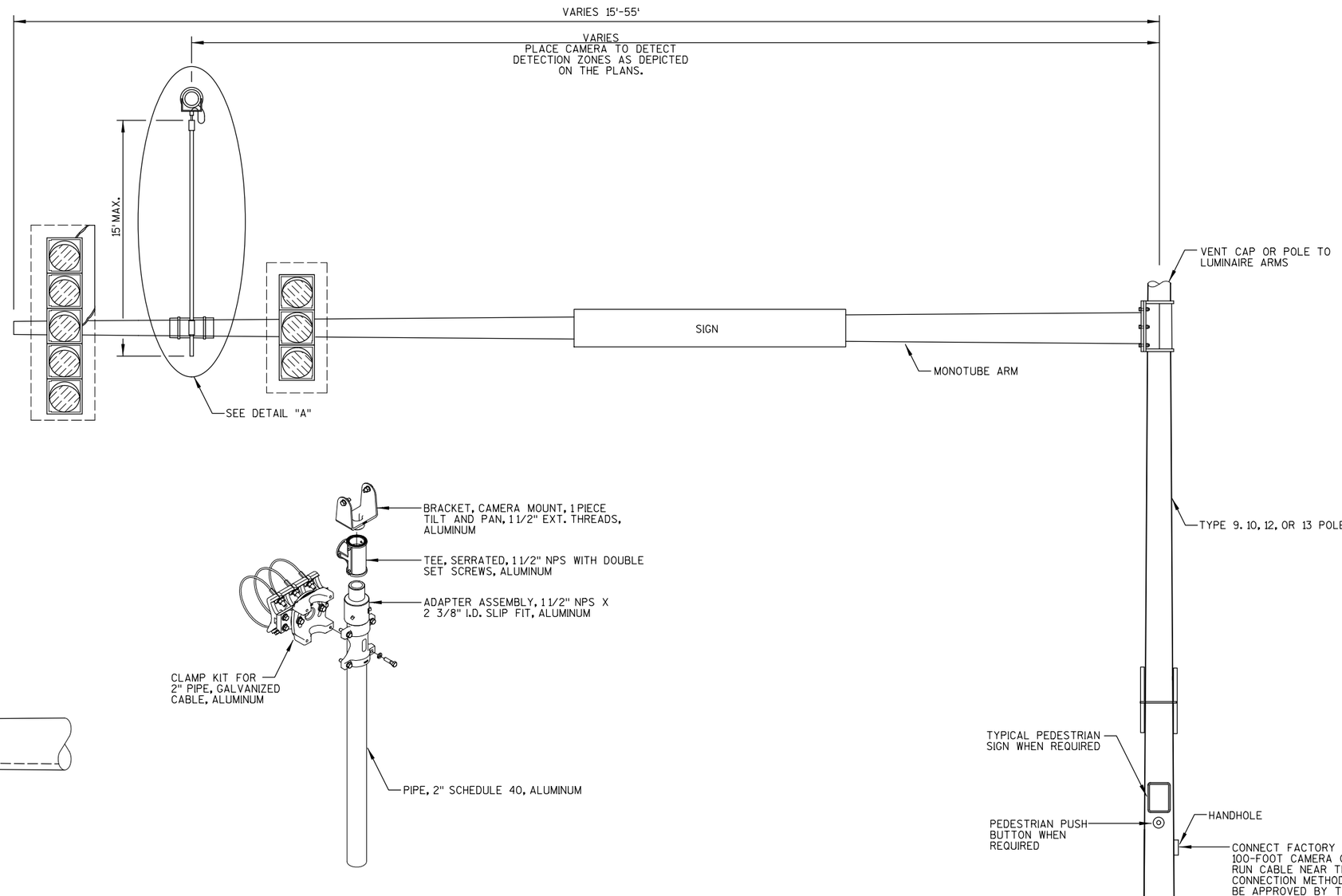


TYPE 10 OR 13
MOUNTING CONFIGURATION

VIDEO DETECTION MOUNTING DETAIL
(LUMINAIRE ARM MOUNT)



DETAIL "A"



EXTENSION ARM

VIDEO DETECTION MOUNTING DETAIL (MAST ARM MOUNT)

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL DETAILS	SHEET 354	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

USH 2 (BELKNAP STREET)

BANKS AVENUE

135+00 136+00 137+00 138+00 139+00 140+00

7+00 6+00 5+00 4+00

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8

SB1 SB2 SB3 SB4 SB5 SB6

CB1

R/W

ABANDON

BLDG

CONC

ASPH

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 355	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024011_SP.DWG PLOT DATE : 7/28/2016 4:24 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1:40_XREF

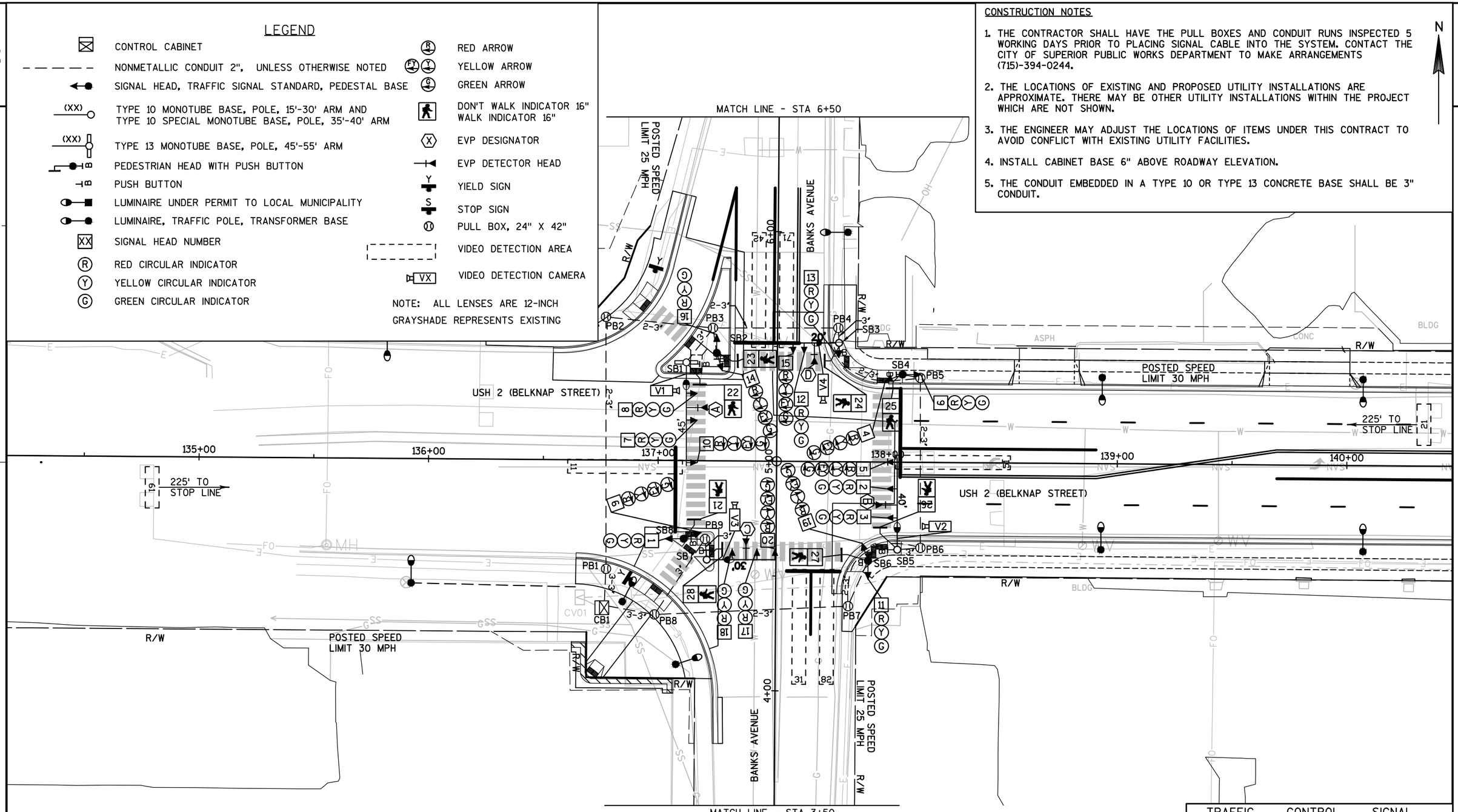
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- (XX) TYPE 13 MONOTUBE BASE, POLE, 45'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN
- S STOP SIGN
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.



TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

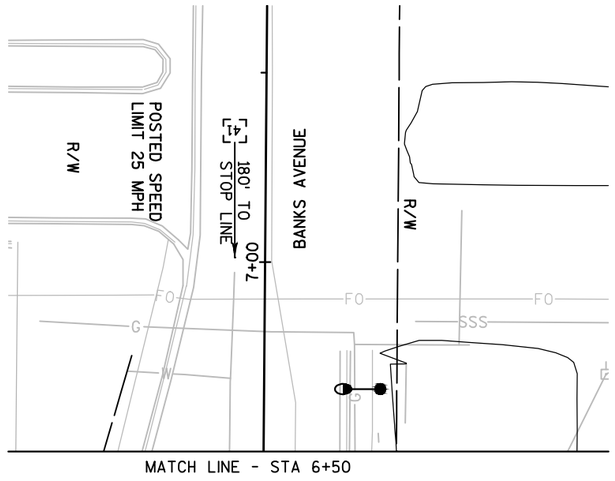
PAGE 1 OF 3

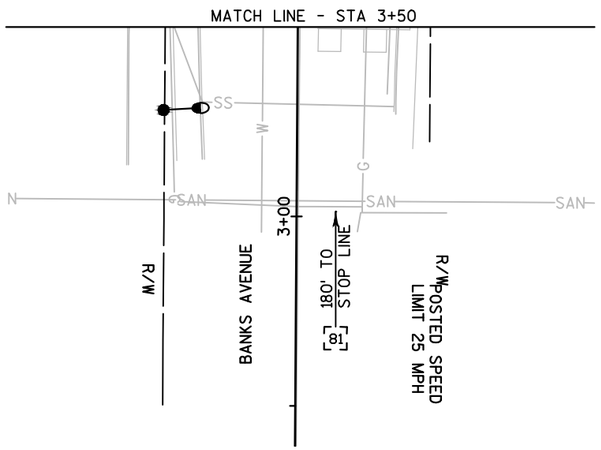
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 356	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024015_SP.DWG PLOT DATE : 7/28/2016 4:36 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF

2

N





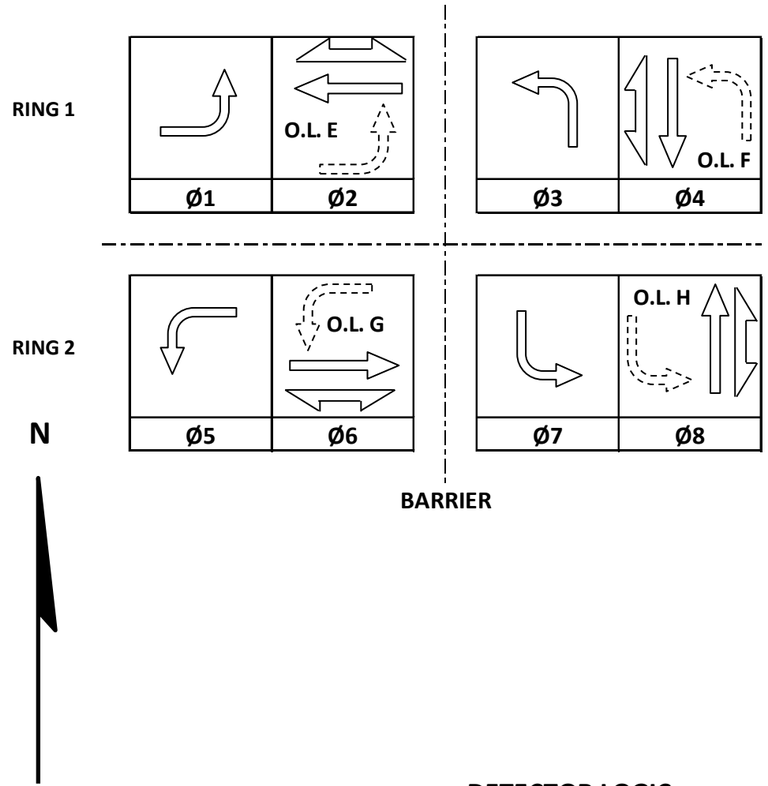
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & BANKS AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 357	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P	23,24	
Ø4P	21,22	
Ø6P	27,28	
Ø8P	25,26	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	31	42	61	81											
CALLED PHASE	1	3	4	6	8											
CALL OPTION	X	X	X	X												
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X											
EXTEND TIME																
USE ADDED INITIAL				X												
CROSS SWITCH PHASE	2	4														

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	21	41	51	71	82											
CALLED PHASE	2	4	5	7	8											
CALL OPTION	X		X	X	X											
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X											
EXTEND TIME																
USE ADDED INITIAL	X															
CROSS SWITCH PHASE			6	8												

USH 2 (BELKNAP STREET) & BANKS AVENUE
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

FILE NAME : 024019_sp_ph.ppt PLOT DATE : 3/11/2015 PLOT BY : SEH INC PLOT NAME : 024019_sp_ph PLOT SCALE : 1:1

PROJECT ID:	8680-00-71
INTERSECTION:	USH 2 (BELKNAP AVENUE) & BANKS AVENUE

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_ TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	15	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB2	15	14				RED	ORG	GRN	BLU/BLK				
		16	RED/BLK	ORG/BLK	GRN/BLK								
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB3	15	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		26								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	15	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		27								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB7	15	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		28								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB8	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	SB2
PB3	SB2
PB4	SB3
PB5	SB4
PB6	SB5
PB7	SB6
PB8	CB1
PB9	SB7

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB3
CB1	SB7
SB7	SB5

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB1 (HEAD A)
CB1	SB5 (HEAD B)
CB1	SB7 (HEAD C)
CB1	SB3 (HEAD D)

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB1 (V1)
CB1	SB5 (V2)
CB1	SB7 (V3)
CB1	SB3 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

USH 2 (BELKNAP STREET)
STH 35 (TOWER AVENUE)
R/W
BLDG
CONC
ASPH
ABANDON
PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13
SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8
CB1
138+00 139+00 140+00 141+00 142+00 143+00 144+00
687+00 688+00 689+00

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 360	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024021_SP.DWG
PLOT DATE : 7/28/2016 4:44 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- (XX) TYPE 13 MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.
6. SB2 AND SB7 SHALL HAVE A MINIMUM 20-FOOT VERTICAL CLEARANCE BETWEEN THE ROADWAY AND MONOTUBE ARM AND SIGNAL INDICATIONS.

N

MATCH LINE - STA 689+50

MATCH LINE - STA 686+50

STH 35 (TOWER AVENUE)

POSTED SPEED LIMIT 35 MPH

POSTED SPEED LIMIT 30 MPH

USH 2 (BELKNAP STREET)

225' TO STOP LINE

R/W

BLDG

ASPH

CONC

139+00 140+00 141+00 142+00 143+00 144+00

688+00 687+00

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9

V1 V2 V3 V4

CB1 CV02

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

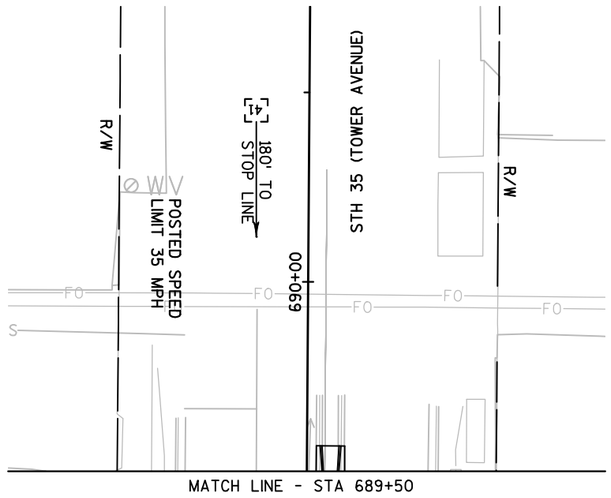
PAGE 1 OF 3

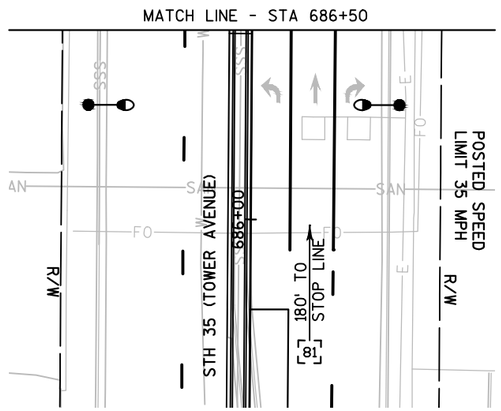
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024025_SP.DWG PLOT DATE : 7/28/2016 4:54 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF
WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & STH 35 (TOWER AVE)
CITY OF SUPERIOR
DOUGLAS COUNTY

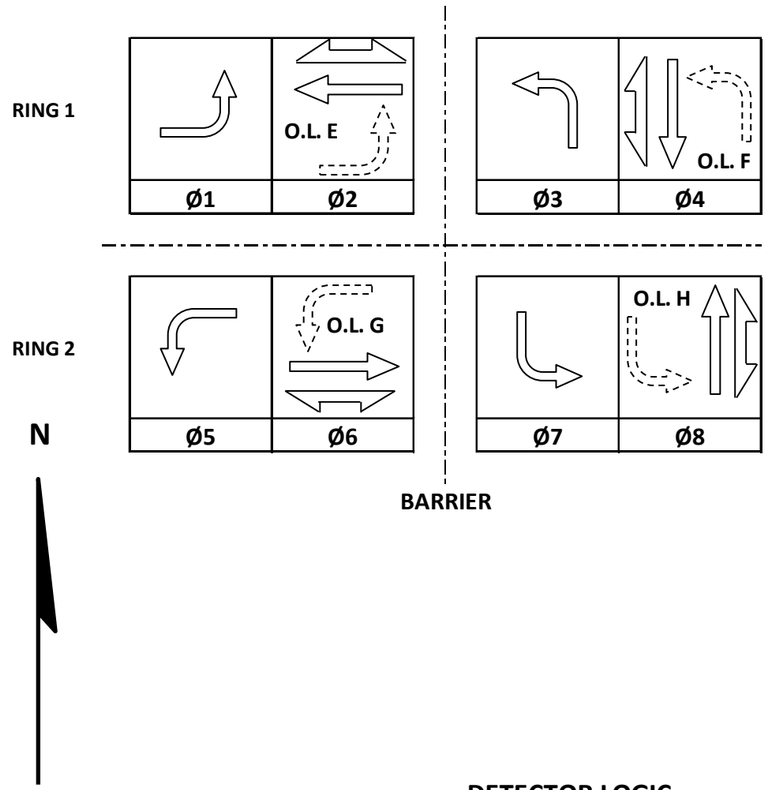
MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024025_SP.DWG PLOT DATE : 7/28/2016 4:55 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P	25,26	
Ø4P	23,24	
Ø6P	21,22	
Ø8P	27,28	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	31	42	51	71	82										
CALLED PHASE	1	3	4	5	7	8										
CALL OPTION	X	X	X	X	X	X										
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X	X										
EXTEND TIME																
USE ADDED INITIAL																
CROSS SWITCH PHASE	2	4		6	8											

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	21	41	43	61	81	83										
CALLED PHASE	2	4	4	6	8	8										
CALL OPTION	X		X	X		X										
DELAY TIME			X			X										
EXTENTION OPTION	X	X	X	X	X	X										
EXTEND TIME																
USE ADDED INITIAL	X			X												
CROSS SWITCH PHASE																

USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

FILE NAME : 024019_sp_ph.ppt PLOT DATE : 3/11/2015 PLOT BY : SEH INC PLOT NAME : 024019_sp_ph PLOT SCALE : 1:1

PROJECT ID:	8680-00-71
INTERSECTION:	SH 2 (BELKNAP AVENUE) & STH 35 (TOWER AVENU

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_ TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	15	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB2	12	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB3	7	22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	15	14				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		16	RED	ORG	GRN								
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB7	12	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB8	7	26								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB9	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB10	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		28								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	SB1
PB3	SB3
PB4	SB4
PB5	SB5
PB6	SB6
PB7	SB8
PB8	SB9
PB9	SB10

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB2
SB2	SB5
CB1	SB10
SB10	SB7

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB5 (HEAD A)
CB1	SB10 (HEAD B)
CB1	SB2 (HEAD C)
CB1	SB7 (HEAD D)

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB5 (V1)
CB1	SB10 (V2)
CB1	SB2 (V3)
CB1	SB7 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

OGDEN AVENUE
USH 2 (BELKNAP STREET)
R/W
BLDG
ASPH
CONC
142+00
143+00
144+00
145+00
146+00
147+00
101+00
100+00
99+00
98+00
PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10
SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8
CB1
ABANDON
25'
20'

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:
PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 365	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024031_SP.DWG
PLOT DATE : 7/28/2016 5:02 PM
PLOT BY : JOSHUA WOLLER
PLOT NAME :
PLOT SCALE : 1" = 40'_XREF

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.

N

MATCH LINE - STA 101+50

POSTED SPEED LIMIT 25 MPH

OGDEN AVENUE

101+00

USH 2 (BELKNAP STREET)

POSTED SPEED LIMIT 30 MPH

225' TO STOP LINE

142+00 143+00 144+00 145+00 146+00 147+00 148+00

99+00

MATCH LINE - STA 98+50

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

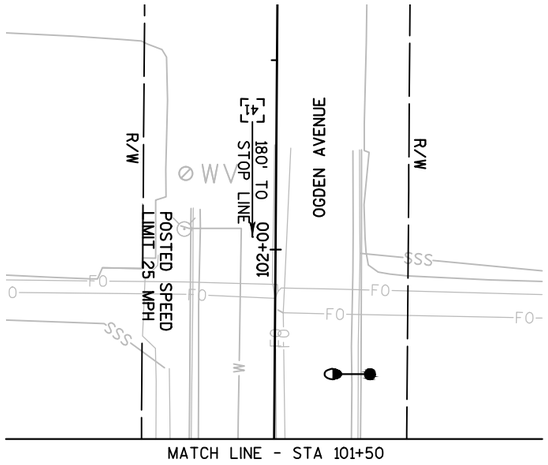
PAGE 1 OF 3

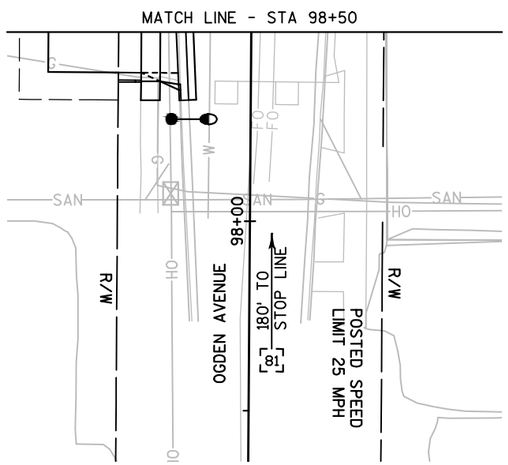
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024035_SP.DWG PLOT DATE : 7/28/2016 5:11 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF
WISDOT/CADDS SHEET 42

2

N





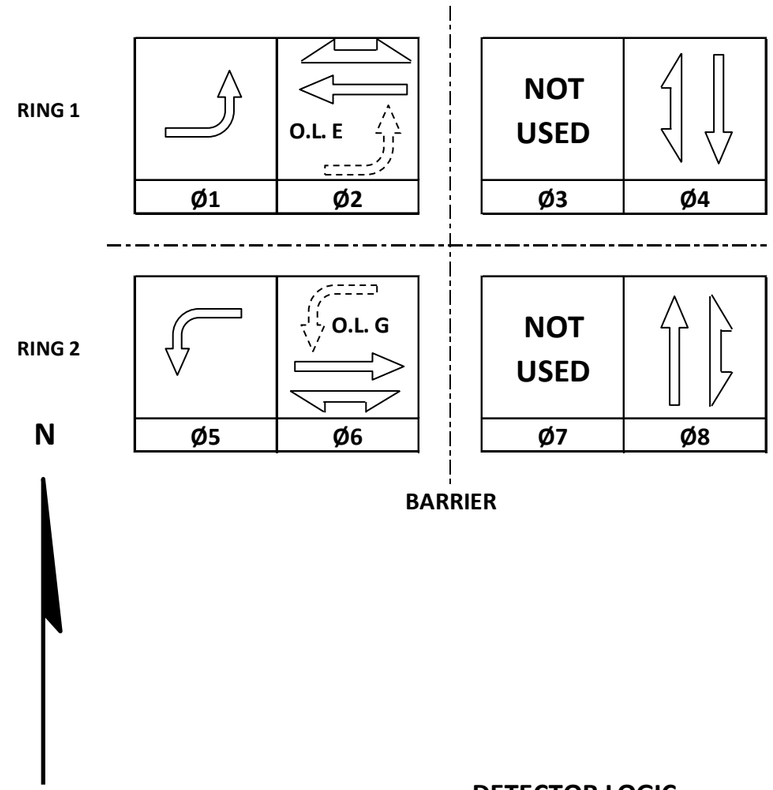
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & OGDEN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 367	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3		
Ø4	15,16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7		
Ø8	11,12,13,14	R
Ø2P	21,22	
Ø4P	19,20	
Ø6P	25,26	
Ø8P	23,24	
OLE	4,5	-
OLF		
OLG	9,10	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	41	51	81				
CALLED PHASE	1	4	5	8				
CALL OPTION	X		X					
DELAY TIME								
EXTENTION OPTION	X	X	X	X				
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2		6					

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	21	42	61	82				
CALLED PHASE	2	4	6	8				
CALL OPTION	X	X	X	X				
DELAY TIME								
EXTENTION OPTION	X	X	X	X				
EXTEND TIME								
USE ADDED INITIAL	X		X					
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

USH 2 (BELKNAP STREET) & OGDEN AVENUE
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

FILE NAME : 024019_sp_ph.ppt PLOT DATE : 3/11/2015 PLOT BY : SEH INC PLOT NAME : 024019_sp_ph PLOT SCALE : 1:1

PROJECT ID:	8680-00-71
INTERSECTION:	USH 2 (BELKNAP AVENUE) & OGDEN AVENUE

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		17								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB2	15	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		18								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB3	12	12	RED	ORG	GRN								
		14	RED/BLK	ORG/BLK	GRN/BLK								
		19								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	12	13	RED	ORG	GRN								
		20								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB7	12	11	RED	ORG	GRN								
		15	RED/BLK	ORG/BLK	GRN/BLK								
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB8	12	16	RED	ORG	GRN								
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	SB1
PB2	SB2
PB3	SB3
PB4	SB4
PB5	SB5
PB6	SB6
PB7	SB7
PB8	SB8

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB2
SB2	SB4
CB1	SB8
SB8	SB6

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB2 (HEAD A)
CB1	SB6 (HEAD B)
CB1	SB8 (HEAD C)
CB1	SB4 (HEAD D)

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB2 (V1)
CB1	SB6 (V2)
CB1	SB8 (V3)
CB1	SB4 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

USH 2 (BELKNAP STREET)

HAMMOND AVENUE

153+00 154+00 155+00 156+00 157+00 158+00

330+00 331+00 329+00

PB8 ABANDON
SB7 PB6 PB7 SB6 20' ABANDON
SB8 CB1 PB1 SB1 20'
SB5 PB5 SB4 .02 SB3 PB2 SB2 PB3 20'
ABANDON PB4

R/W ASPH BLDG WV SAN OH SSS FO

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:
PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024041_SP.DWG PLOT DATE : 7/28/2016 5:19 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.

N

MATCH LINE - STA 331+50

MATCH LINE - STA 328+50

HAMMOND AVENUE

USH 2 (BELKNAP STREET)

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

225' TO STOP LINE

154+00 155+00 156+00 157+00 158+00 159+00

330+00 325+00

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

CB1 HCPB01 CV04

BLDG ASPH R/W

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

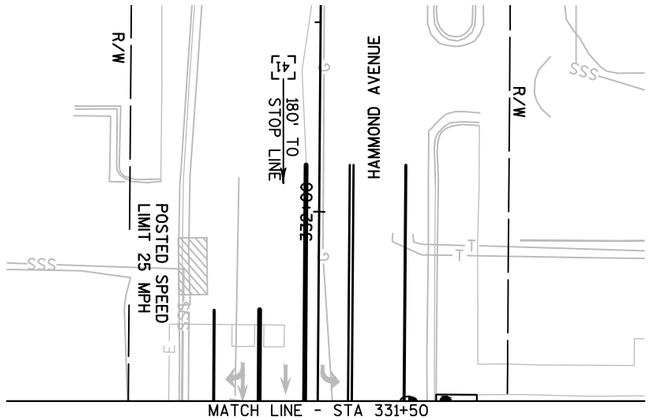
PAGE 1 OF 3

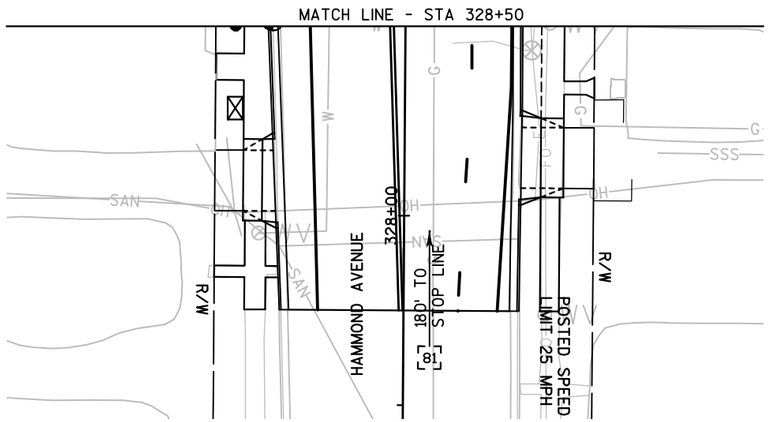
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 371	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024045_SP.DWG PLOT DATE : 7/29/2016 7:09 AM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

N





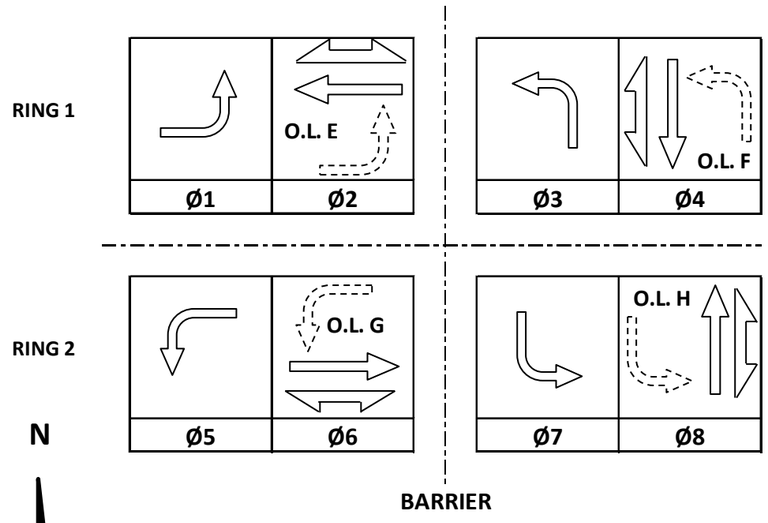
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HAMMOND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 372	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P	25,26	
Ø4P	23,24	
Ø6P	21,22	
Ø8P	27,28	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	31	42	51	71	82		
CALLED PHASE	1	3	4	5	7	8		
CALL OPTION	X	X	X	X	X	X		
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2	4		6	8			

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	21	41	43	61	81	83		
CALLED PHASE	2	4	4	6	8	8		
CALL OPTION	X		X	X		X		
DELAY TIME			X			X		
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME								
USE ADDED INITIAL	X			X				
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

USH 2 (BELKNAP STREET) & HAMMOND AVENUE
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

PROJECT ID:	8680-00-71
INTERSECTION:	USH 2 (BELKNAP AVENUE) & HAMMOND AVENUE

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_ TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	15	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		28								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB2	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB3	15	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	15	14				RED	ORG	GRN	BLU/BLK				
		16	RED/BLK	ORG/BLK	GRN/BLK								
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB7	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		26								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB8	15	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		27								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB3	SB1
PB4	SB2
PB5	SB3
PB6	SB4
PB7	SB5
PB8	SB6
PB9	SB7
PB10	SB8
PB11	CB1

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB3
CB1	SB7
SB7	SB5

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB3 (HEAD A)
CB1	SB7 (HEAD B)
CB1	SB1 (HEAD C)
CB1	SB5 (HEAD D)

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB3 (V1)
CB1	SB7 (V2)
CB1	SB1 (V3)
CB1	SB5 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

USH 2 (BELKNAP STREET)
GRAND AVENUE
LAMBORN AVENUE
ABANDON
PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8
SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8
CB1
R/W
BLDG
ASPH
164+00 165+00 166+00 167+00 168+00 169+00 170+00
371+00 360+00 359+00 358+00 350+00 349+00 348+00

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 375 E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024051_SP.DWG
PLOT DATE : 7/28/2016 5:36 PM
PLOT BY : JOSHUA WOLLER
PLOT NAME :
PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.

N

MATCH LINE - STA 371+50

POSTED SPEED LIMIT 25 MPH

GRAND AVENUE

371+00

R/W

USH 2 (BELKNAP STREET)

POSTED SPEED LIMIT 30 MPH

225' TO STOP LINE

165+00 166+00 167+00 168+00 169+00 170+00

370+00

LAMBORN AVENUE

359+00

MATCH LINE - STA 358+50

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

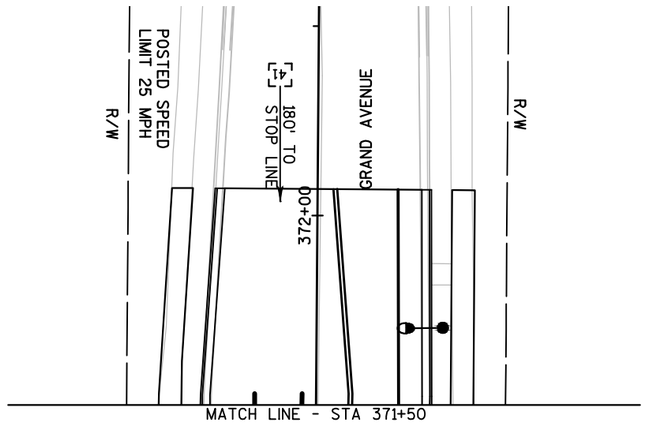
MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

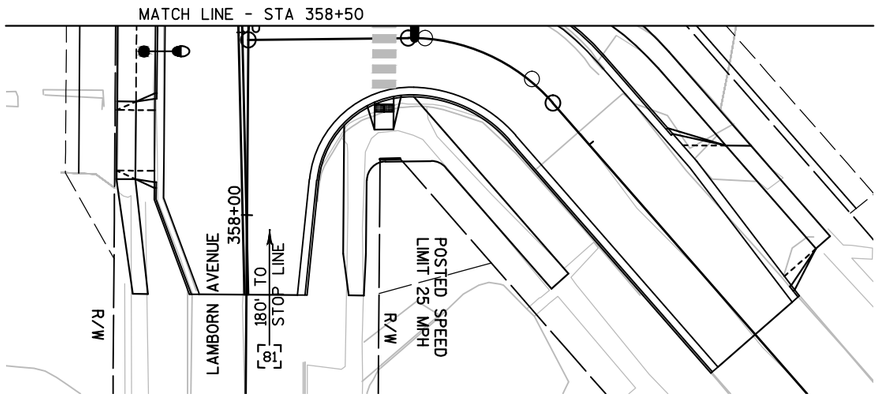
PAGE 1 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 376 E

2

N





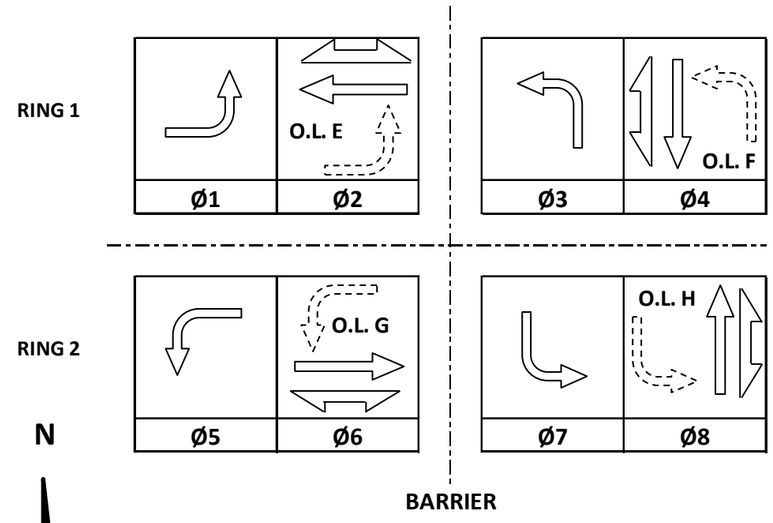
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & GRAND AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 377	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P	27,28	
Ø4P	25,26	
Ø6P	23,24	
Ø8P	21,22	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	31	42	51	71	82										
CALLED PHASE	1	3	4	5	7	8										
CALL OPTION	X	X	X	X	X	X										
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X	X										
EXTEND TIME																
USE ADDED INITIAL																
CROSS SWITCH PHASE	2	4		6	8											

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	21	41	43	61	81											
CALLED PHASE	2	4	4	6	8											
CALL OPTION	X		X	X												
DELAY TIME			X													
EXTENTION OPTION	X	X	X	X	X											
EXTEND TIME																
USE ADDED INITIAL	X			X												
CROSS SWITCH PHASE																

USH 2 (BELKNAP STREET) & GRAND AVENUE
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

PROJECT ID:	8680-00-71
INTERSECTION:	USH 2 (BELKNAP AVENUE) & GRAND AVENUE

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_ TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	15	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB2	15	14				RED	ORG	GRN	BLU/BLK				
		16	RED/BLK	ORG/BLK	GRN/BLK								
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB3	15	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		26								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	15	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		27								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB7	15	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		28								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB8	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	SB1
PB3	SB2
PB4	SB3
PB5	SB4
PB6	SB5
PB7	SB6
PB8	SB7
PB9	SB8

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB3
CB1	SB7
SB7	SB5

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB1 (HEAD A)
CB1	SB5 (HEAD B)
CB1	SB7 (HEAD C)
CB1	SB3 (HEAD D)

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB1 (V1)
CB1	SB5 (V2)
CB1	SB7 (V3)
CB1	SB3 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

USH 2 (BELKNAP STREET)

CATLIN AVENUE

180+00 181+00 182+00 183+00 184+00 185+00 BP

410+00 411+00 409+00 408+00

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8
SB1 SB2 SB3 SB4 SB5 SB6 SB7
CB1
ABANDON
R/W
BLDG
ASPH
CANOPY
HSE

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:
PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 380	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.

N

MATCH LINE - STA 411+50

MATCH LINE - STA 408+50

USH 2 (BELKNAP STREET)

CATLIN AVENUE

POSTED SPEED LIMIT 25 MPH

POSTED SPEED LIMIT 30 MPH

225' TO STOP LINE

R/W

ASPH

BLDG

CANOPY

HSE

CV07

CB1

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

V1 V2 V3 V4

180+00 181+00 182+00 183+00 184+00 185+00

410+00 411+00 405+00

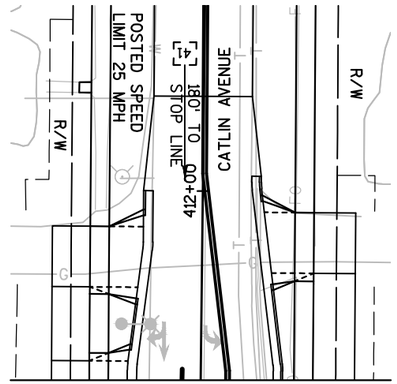
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 381	E

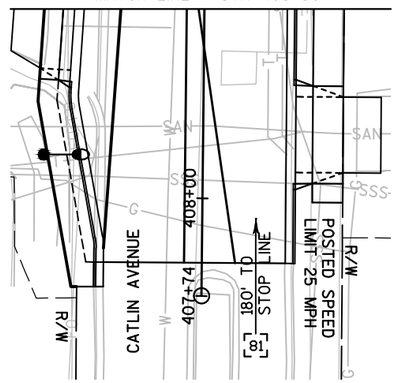
2



MATCH LINE - STA 411+50

N

MATCH LINE - STA 408+50



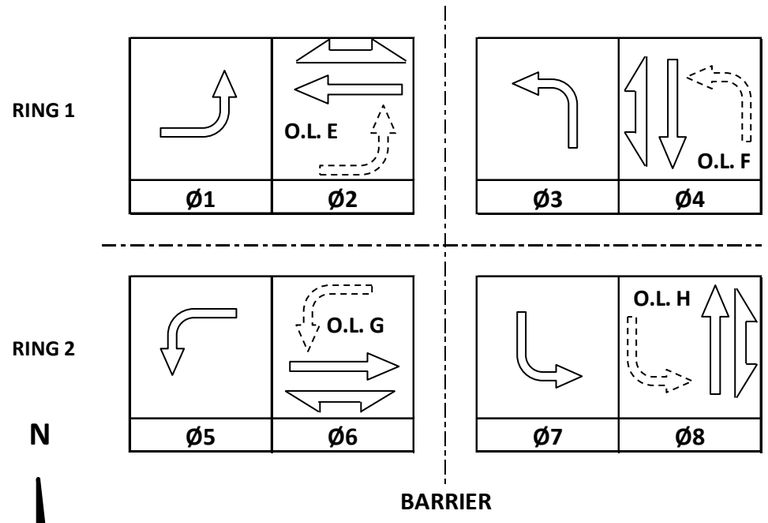
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & CATLIN AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 382	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P	25,26	
Ø4P	23,24	
Ø6P	21,22	
Ø8P	27,28	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	31	42	61	81			
CALLED PHASE	1	3	4	6	8			
CALL OPTION	X	X	X	X				
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL				X				
CROSS SWITCH PHASE	2	4						

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	21	41	51	71	82			
CALLED PHASE	2	4	5	7	8			
CALL OPTION	X		X	X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL	X							
CROSS SWITCH PHASE			6	8				

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

USH 2 (BELKNAP STREET) & CATLIN AVENUE
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

PROJECT ID:	8680-00-71
INTERSECTION:	USH 2 (BELKNAP AVENUE) & CATLIN AVENUE

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_ TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		28								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB2	15	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB3	15	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	15	14				RED	ORG	GRN	BLU/BLK				
		16	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB7	15	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		26								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB8	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	SB1
PB2	SB2
PB3	SB3
PB4	SB4
PB5	SB5
PB6	SB6
PB7	SB7
PB8	SB8
PB9	CB1

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB3
CB1	SB7
SB7	SB5

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB5 (HEAD A)
CB1	SB1 (HEAD B)
CB1	SB3 (HEAD C)
CB1	SB7 (HEAD D)

VIDEO DETECTION CABLE	
FROM	TO
CB1	SB5 (V1)
CB1	SB1 (V2)
CB1	SB3 (V3)
CB1	SB7 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 12" X 24"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- S STOP SIGN

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.

N

USH 2 (BELKNAP STREET)
HILL AVENUE
R/W
205+00
206+00
207+00
208+00
209+00
210+00
211+00
500+00
501+00
499+00
498+00
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
SB1
SB2
SB3
SB4
SB5
SB6
SB7
SB8
CB1
ABANDON
LP: 510+06.00
BP: 509+27.52
FLAG
SIGN

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:
PAGE 1 OF 1

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 385	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024071_SP.DWG
PLOT DATE : 7/28/2016 6:09 PM
PLOT BY : JOSHUA WOLLER
PLOT NAME :
PLOT SCALE : 1:40_XREF_XREF

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) TYPE 10 MONOTUBE BASE, POLE, 15'-30' ARM AND TYPE 10 SPECIAL MONOTUBE BASE, POLE, 35'-40' ARM
- (XX) TYPE 13 MONOTUBE BASE, POLE, 45'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" WALK INDICATOR 16"
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR PUBLIC WORKS DEPARTMENT TO MAKE ARRANGEMENTS (715)-394-0244.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. THE CONDUIT EMBEDDED IN A TYPE 10 OR TYPE 13 CONCRETE BASE SHALL BE 3" CONDUIT.

N

USH 2 (BELKNAP STREET)
HILL AVENUE
A HAYES CT
POSTED SPEED LIMIT 25 MPH
POSTED SPEED LIMIT 30 MPH
225' TO STOP LINE
ONE-WAY
R/W
ICPB04
CV08
CB1
PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10
SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10
BP: 509+27.52
FP: 510+00.00
MATCH LINE - STA 498+50

TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 1 OF 3

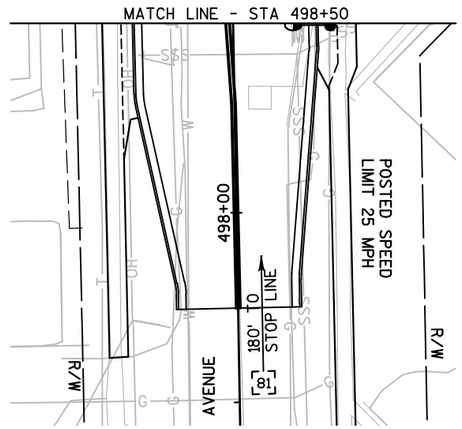
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 386	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024075_SP.DWG PLOT DATE : 7/28/2016 6:18 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

N



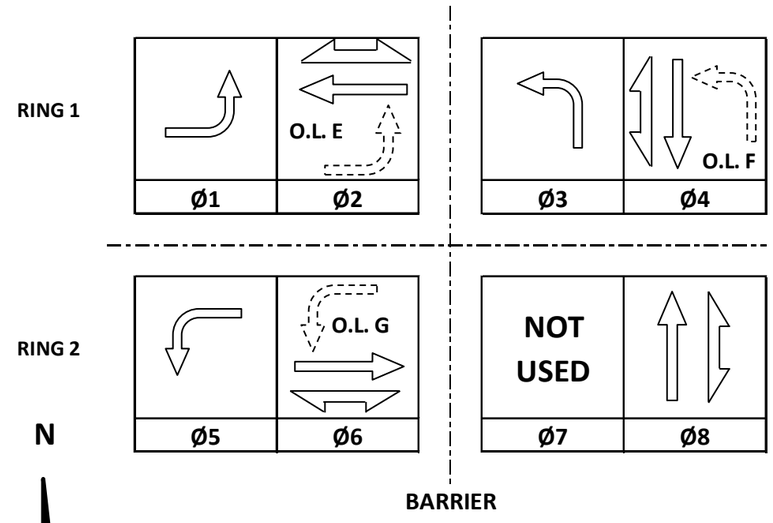
TRAFFIC CONTROL SIGNAL
USH 2 (BELKNAP ST) & HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. Janigo
DESIGNED BY: SEH
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	TRAFFIC SIGNAL PLAN	SHEET 387	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7		
Ø8	11,12,13	R
Ø2P	19,20	
Ø4P	25,26	
Ø6P	23,24	
Ø8P	21,22	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	31	51	81												
CALLED PHASE	1	3	5	8												
CALL OPTION	X	X	X													
DELAY TIME																
EXTENTION OPTION	X	X	X	X												
EXTEND TIME																
USE ADDED INITIAL																
CROSS SWITCH PHASE	2	4	6													

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	21	41	61	82												
CALLED PHASE	2	4	6	8												
CALL OPTION	X	X	X	X												
DELAY TIME																
EXTENTION OPTION	X	X	X	X												
EXTEND TIME																
USE ADDED INITIAL	X		X													
CROSS SWITCH PHASE																

USH 2 (BELKNAP STREET) & HILL AVENUE
CITY OF SUPERIOR
DOUGLAS COUNTY
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 04/16 PAGE NO. 3 OF 3

FILE NAME : 024019_sp_ph.ppt PLOT DATE : 3/11/2015 PLOT BY : SEH INC PLOT NAME : 024019_sp_ph PLOT SCALE : 1:1

PROJECT ID:	8680-00-71
INTERSECTION:	USH 2 (BELKNAP AVENUE) & HILL AVENUE

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB_ TO	AWG 14 # OF	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING> <YELLOW>	D/WALK	WALK	WIRE 1	WIRE 2
SB1	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB2	7	20								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB3	15	11	RED	ORG	GRN								
		18	RED/BLK	ORG/BLK	GRN/BLK								
		21								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB4	12	17	RED	ORG	GRN								
		22								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB5	15	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		23								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB6	12	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB7	7	24								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB8	15	14				RED	ORG	GRN	BLU/BLK				
		16	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB9	15	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		26								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT
SB10	15	4				RED	ORG	GRN	BLU/BLK				
		6	RED/BLK	ORG/BLK	GRN/BLK								
		19								BLK	BLU		
		BUTTON										WHT/BLK	BLK/WHT

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	SB1
PB3	SB3
PB4	SB4
PB5	SB5
PB6	SB6
PB7	SB8
PB8	SB9
PB9	SB10

LIGHTING UF 2-10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB4
CB1	SB9
SB9	SB6

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB6 (V1)
CB1	SB1 (V2)
CB1	SB4 (V3)
CB1	SB9 (V4)

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LEGEND

- 3.5' TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- RECTANGULAR RAPID FLASHING BEACON (RRFB), TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- RRFB MOUNTED ON LIGHT POLE
- PUSH BUTTON

CONSTRUCTION NOTES

1. SEE SIGNING PLANS FOR ADDITIONAL DETAILS.
2. SEE STREET LIGHTING PLAN FOR SYSTEM POWER INFORMATION

N

2

312+00
311+00
310+00
309+00
HUGHITT AVENUE
R/W
BLDG
CONC
ASPH
RRFB 2
RRFB 1
USH 2 (BELKNAP STREET)
150+00
151+00
152+00
153+00
154+00
155+00

PROJECT NO:8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	RECTANGULAR RAPID FLASH BEACON (RRFB) PLAN	SHEET 390	E

LEGEND

- 3.5' TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- RECTANGULAR RAPID FLASHING BEACON (RRFB), TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- RRFB MOUNTED ON LIGHT POLE
- PUSH BUTTON

CONSTRUCTION NOTES

1. SEE SIGNING PLANS FOR ADDITIONAL DETAILS.
2. SEE STREET LIGHTING PLAN FOR SYSTEM POWER INFORMATION
3. REMOVE AND SALVAGE EXISTING RRFB SYSTEM.

N

ONE-WAY

BAXTER AVENUE

ONE-WAY

R/W

BLDG

HSE

ASPH

CHURCH

EXISTING RRFB TO BE REMOVED

C-9

RRFB 3

RRFB 2

PB 1

RRFB 1

C-10

SB1

USH 2 (BELKNAP STREET)

161+00

162+00

163+00

164+00

165+00

166+00

167+00

352+

351+00

350+00

349+00

CVO6

PROJECT NO:8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	RECTANGULAR RAPID FLASH BEACON (RRFB) PLAN	SHEET 391	E

FILE NAME : H:\UZW\WITNW\122503\C3D\86800071\SHEETSPLAN\024085_RRFB.DWG PLOT DATE : 7/27/2016 4:06 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- 3.5' TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- RECTANGULAR RAPID FLASHING BEACON (RRFB), TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- RRFB MOUNTED ON LIGHT POLE
- PUSH BUTTON

CONSTRUCTION NOTES

1. SEE SIGNING PLANS FOR ADDITIONAL DETAILS.
2. SEE STREET LIGHTING PLAN FOR SYSTEM POWER INFORMATION

N

2

2

ASPH

R/W

SB3

RRFB 3

C-35

R/W

POSTED SPEED LIMIT 30 MPH

401+00

FISHER AVENUE

USH 2 (BELKNAP STREET)

174+00

175+00

176+00

SB4

PB2

177+00

178+00

400+00

179+00

RRFB 2

USH 2 (BELKNAP STREET)

SB5

RRFB 1

R/W

R/W

CONC SW

CHURCH

ASPH

CLOUGH AVENUE

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	RECTANGULAR RAPID FLASH BEACON (RRFB) PLAN	SHEET E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024085_RRFB.DWG PLOT DATE : 7/27/2016 4:06 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- 3.5' TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- RECTANGULAR RAPID FLASHING BEACON (RRFB), TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- RRFB MOUNTED ON LIGHT POLE
- PUSH BUTTON

CONSTRUCTION NOTES

1. SEE SIGNING PLANS FOR ADDITIONAL DETAILS.
2. SEE STREET LIGHTING PLAN FOR SYSTEM POWER INFORMATION

N

2

2

462+00
461+00
460+00
PINE AVENUE
R/W
BLDG
HSE
USH 2 (BELKNAP STREET)
CONC
ASPH
196+00
197+00
198+00
199+00
200+00
201+00
PB3
SB7
RRFB 2
SB6
E-7
RRFB 3
SB8
E-8
RRFB 1
ICPB02
ICPB03

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	RECTANGULAR RAPID FLASH BEACON (RRFB) PLAN	SHEET 393 E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024085_RRFB.DWG PLOT DATE : 7/27/2016 4:07 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- COMMUNICATIONS VAULT
- TRAFFIC SIGNAL INTERCONNECT CONDUIT, UNLESS OTHERWISE NOTED
- PULL BOX 24"X42"
- CONTROL CABINET

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING FIBER OPTIC INTERCONNECT CABLE INTO THE SYSTEM. CONTACT THE CITY OF SUPERIOR DEPARTMENT OF PUBLIC WORKS, (715)-394-0244, TO MAKE ARRANGEMENTS .
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
5. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.

N

7+00
6+00
5+00
4+00
BANKS AVENUE
USH 2 (BELKNAP STREET)
135+00
136+00
137+00
138+00
139+00
MATCH LINE - STA 139+50
BLDG
ASPH
MH
WV
FIBER OPTIC SPLICE (8)
FIBER OPTIC SPLICE ENCLOSURE
CV01
FO CABLE PIGTAIL 8-CT
FIBER OPTIC TRACER CABLE
CB1 (BANKS)
INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

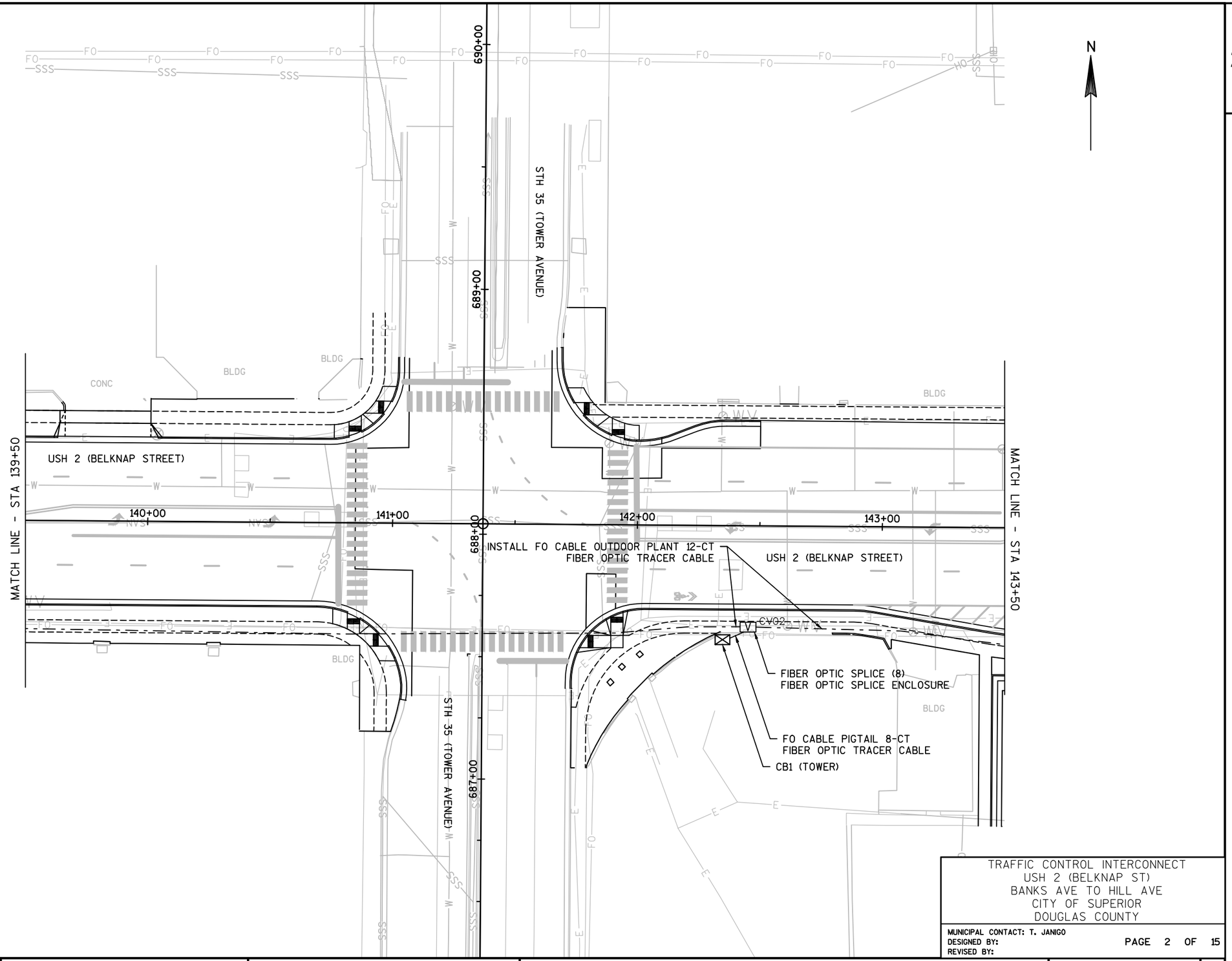
TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 1 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 394	E

2



TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 395	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:18 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

MATCH LINE - STA 143+50

USH 2 (BELKNAP STREET)

144+00

145+00

100+00

OGDEN AVENUE

101+00

102+00

CONC

ASPH

146+00

147+00

USH 2 (BELKNAP STREET)

MATCH LINE - STA 147+50

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

OVC3

FIBER OPTIC SPLICE (8)
FIBER OPTIC SPLICE ENCLOSURE

FO CABLE PIGTAIL 8-CT
FIBER OPTIC TRACER CABLE

CB1 (OGDEN)

OGDEN AVENUE

99+00

MWEL

ASPH

ASPH

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 396	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:19 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE - STA 147+50

MATCH LINE - STA 153+50

JOHN AVENUE

ONE-WAY

HUGHITT AVENUE

USH 2 (BELKNAP STREET)

148+00

149+00

150+00

151+00

152+00

153+00

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

ASPH

CONC

BLDG

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 4 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 397	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:21 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

MATCH LINE - STA 332+00

N

HAMMOND AVENUE

BLDG

ASPH

USH 2 (BELKNAP STREET)

MATCH LINE - STA 153+50

MATCH LINE - STA 159+00

154+00 155+00 156+00 157+00 158+00

332 331+00 330+00 329+00

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

ICPB01

CV04

FIBER OPTIC SPLICE (8)
FIBER OPTIC SPLICE ENCLOSURE

FO CABLE PIGTAIL 8-CT
FIBER OPTIC TRACER CABLE

CB1 (HAMMOND)

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 5 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 398	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:22 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

MATCH LINE - STA 159+00

MATCH LINE - STA 164+50

USH 2 (BELKNAP STREET)

INSTALL FIBER IN EXISTINGCAN FIBER DUCT

CAN FIBER PULL BOX

CV05

INSTALL FO CABLE OUTDOOR PLANT 12-CT FIBER OPTIC TRACER CABLE

CUMMING AVENUE

BAXTER AVENUE

ONE-WAY

ONE-WAY

342+00

341+00

340+00

339+00

160+00

161+00

162+00

163+00

164+00

151050
635.740
IN
15229
635.796
PPOL

BLDG

HSE

ASPH

MWEL

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 6 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 399	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:23 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

2

N

MATCH LINE - STA 164+50

MATCH LINE - STA 170+00

USH 2 (BELKNAP STREET)

USH 2 (BELKNAP STREET)

GRAND AVENUE

LAMBORN AVENUE

165+00

166+00

167+00

168+00

169+00

170

372+00

371+00

360+00

359+00

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

FIBER OPTIC SPLICE (8)
FIBER OPTIC SPLICE ENCLOSURE

FO CABLE PIGTAIL 8-CT
FIBER OPTIC TRACER CABLE

CB1 (GRAND)

CV06

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 7 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 400	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 10/24/2016 12:10 PM PLOT BY : BILL MCELROY PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

WEEKS AVENUE

GAR

ASPH

HSE

ASPH

MATCH LINE - STA 170+00

USH 2 (BELKNAP STREET)

170+00

171+00

172+00

173+00

174+00

175+00

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

USH 2 (BELKNAP STREET)

MATCH LINE - STA 175+00

BLDG

CLOUGH AVENUE

CONC SW

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

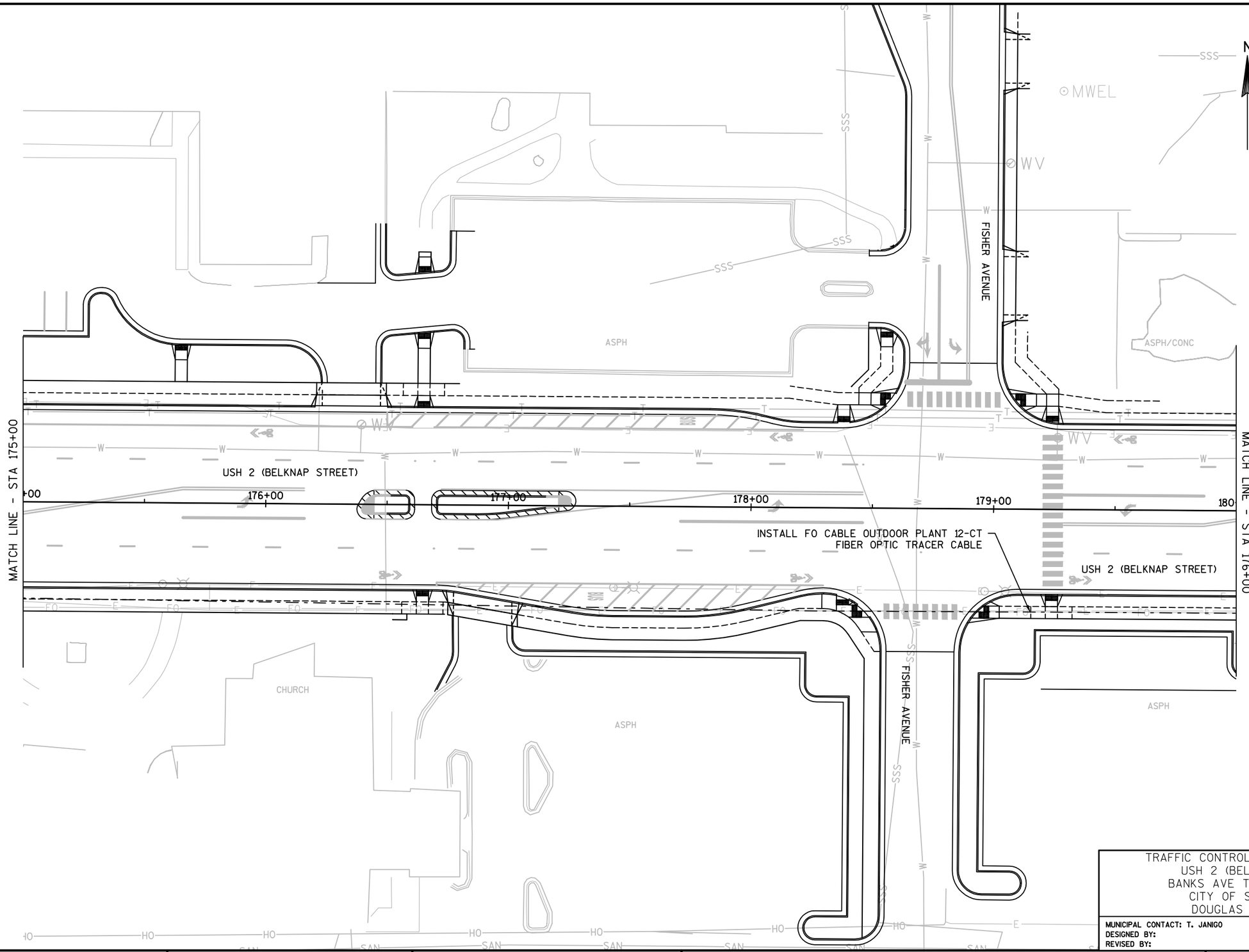
MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 8 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 401	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:26 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2



TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 9 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 402	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:27 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

2

N

MATCH LINE - STA 180+00

MATCH LINE - STA 185+00

180+00

181+00

182+00

183+00

184+00

185

410+00

411+00

412+00

USH 2 (BELKNAP STREET)

CATLIN AVENUE

CATLIN AVENUE

BLDG

BLDG

BLDG

BLDG

BLDG

CANOPY

ASPH

ASPH

ASPH

ASPH

HSE

SSS

G

W

T

E

FO

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

CV07

CB1 (CATLIN)

FIBER OPTIC SPLICE (8)
FIBER OPTIC SPLICE ENCLOSURE

FO CABLE PIGTAIL 8-CT
FIBER OPTIC TRACER CABLE

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 10 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 403	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:28 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

BIRCH AVENUE

CYPRESS AVENUE

BLDG

ASPH

USH 2 (BELKNAP STREET)

186+00

187+00

188+00

189+00

190

MATCH LINE - STA 185+00

MATCH LINE - STA 190+00

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

MERTZ MORTORELLI
MEMORIAL DRIVE

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 11 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 404	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:29 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

MATCH LINE - STA 190+00

USH 2 (BELKNAP STREET)

191+00

192+00

193+00

194+00

195

MATCH LINE - STA 195+00

POPLAR AVENUE

BLDG

ASPH

CANOPY

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

RR

USH 2 (BELKNAP STREET)

129403
629.180
PED

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 12 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 405	E

2

N

PINE AVENUE

BLDG

BLDG

HSE

MATCH LINE - STA 195+00

USH 2 (BELKNAP STREET)

196+00

197+00

198+00

199+00

200

MATCH LINE - STA 200+00

USH 2 (BELKNAP STREET)

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

ICPB02

ICPB03

406
3.320

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 406	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:32 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

WISDOT/CADDS SHEET 42

2

N

ELM AVENUE

CEDAR AVENUE

BLDG

BLDG

BLDG

BLDG

ASPH

USH 2 (BELKNAP STREET)

MATCH LINE - STA 200+00

MATCH LINE - STA 205+50

201+00

202+00

203+00

204+00

205+00

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

USH 2 (BELKNAP STREET)

A HAYES CT

ONE-WAY

ELM AVENUE

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 407	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:33 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

MATCH LINE - STA 205+50

USH 2 (BELKNAP STREET)

208+00

207+00

208+00

209+00

210+00

211+00

HILL AVENUE

501+00

500+00

499+00

HILL AVENUE

FIBER OPTIC SPLICE (8)
FIBER OPTIC SPLICE ENCLOSURE

CB1 (HILL)

CV08

FO CABLE PIGTAIL 8-CT
FIBER OPTIC TRACER CABLE

ICPB04

INSTALL FO CABLE OUTDOOR PLANT 12-CT
FIBER OPTIC TRACER CABLE

TRAFFIC CONTROL INTERCONNECT
USH 2 (BELKNAP ST)
BANKS AVE TO HILL AVE
CITY OF SUPERIOR
DOUGLAS COUNTY

MUNICIPAL CONTACT: T. JANIGO
DESIGNED BY:
REVISED BY:

PAGE 15 OF 15

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	COMMUNICATIONS PLAN	SHEET 408	E

FILE NAME : H:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024311_CO.DWG PLOT DATE : 7/27/2016 4:34 PM PLOT BY : JOSHUA WOLLER PLOT NAME : PLOT SCALE : 1 IN = 40 FT

2

N

6+19

6+00

5+00

4+00

4+25

BANKS AVE

136+00

137+00

138+00

US 2 (BELKNAP ST)

138+91

139+00

139+70

140+00

141+00

142+00

689+34

689+00

688+04

MATCHLINE STA 142+50

MATCHLINE STA 685+54

685+54

TOWER AVE

685+00

684+00

687+00

686+00

685+92

MATCHLINE STA 685+54

PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (D) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (E) PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- (F) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- (H) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- (J) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (K) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (L) PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- (M) PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- (N) PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- (O) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (P) PAVEMENT MARKING CURB EPOXY (YELLOW)
- (Q) PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- (R) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (S) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 409	E

2

N

MATCHLINE STA 142+50

143+48

143+00

144+00

144+23

145+00

146+00

146+46

147+00

148+00

149+00

MATCHLINE STA 149+50

102+00

101+29

101+00

100+00

99+00

98+99

98+00

302+00

301+00

300+00

299+00

298+00

45°, 7.0' SPACING (TYP)

ONE-WAY

US 2 (BELKNAP ST)

OGDEN AVE

JOHN AVE

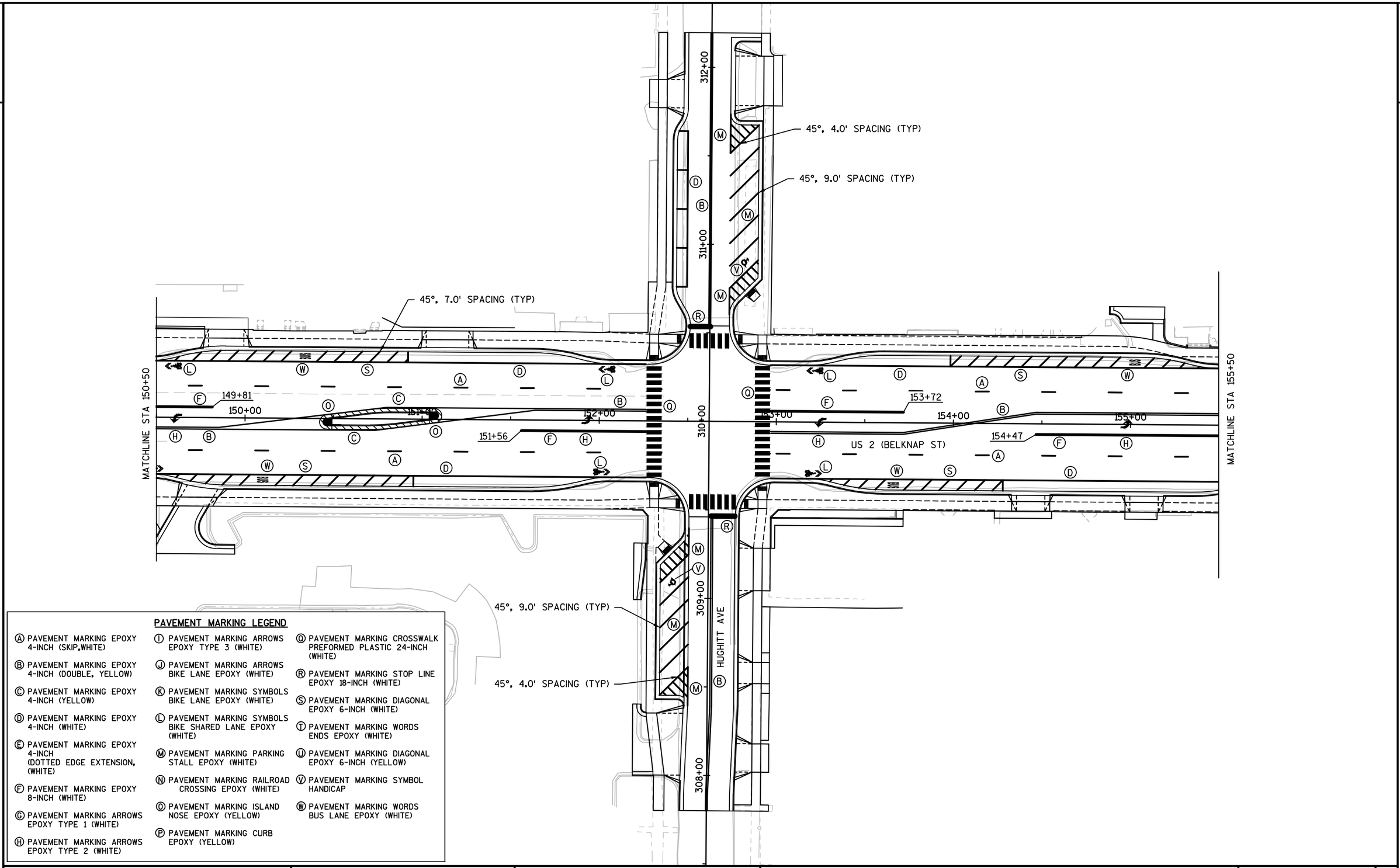
ONE-WAY

PAVEMENT MARKING LEGEND

- Ⓐ PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- Ⓑ PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- Ⓒ PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- Ⓓ PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- Ⓔ PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- Ⓕ PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- Ⓖ PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- Ⓗ PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- Ⓘ PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- Ⓙ PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- Ⓚ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- Ⓛ PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- Ⓜ PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- Ⓝ PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- Ⓞ PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- Ⓟ PAVEMENT MARKING CURB EPOXY (YELLOW)
- Ⓠ PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- Ⓡ PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- Ⓢ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- Ⓣ PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- Ⓤ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- Ⓥ PAVEMENT MARKING SYMBOL HANDICAP
- Ⓦ PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 410	E

2



PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (D) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (E) PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- (F) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- (H) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- (J) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (K) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (L) PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- (M) PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- (N) PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- (O) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (P) PAVEMENT MARKING CURB EPOXY (YELLOW)
- (Q) PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- (R) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (S) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 411	E

2

N

ONE-WAY

ONE-

CUMMING AVE

332+12

331+74

332+00

331+00

330+00

329+00

328+00

328+73

MATCHLINE STA 155+50

MATCHLINE STA 163+00

158+44

159+00

159+19

160+00

161+50

161+00

162+00

162+25

163+

340+00

341+00

342+00

339+00

338+00

US 2 (BELKNAP ST)

HAMMOND AVE

45°, 4.0' SPACING (TYP)

60°, 9.0' SPACING (TYP)

45°, 7.0' SPACING (TYP)

9.0'

45°, 4.0' SPACING

60°, 9.0' SPACING (TYP)

45°, 4.0' SPACING

PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (D) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (E) PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- (F) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- (H) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- (J) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (K) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (L) PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- (M) PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- (N) PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- (O) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (P) PAVEMENT MARKING CURB EPOXY (YELLOW)
- (Q) PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- (R) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (S) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 412	E

2

N

45°, 4.0' SPACING

9.0'

ONE-WAY

BAXTER AVE

GRAND AVE

LAMBORN AVE

US 2 (BELKNAP ST)

45°, 7.0' SPACING (TYP)

MATCHLINE STA 163+00

MATCHLINE STA 170+50

352+00
351+00
350+50
349+00
348+00
164+00
165+00
165+68
166+00
167+00
168+00
169+00
169+03
170+00
371+53
372+00
371+00
360+00
359+00
358+00
100+00
101+00

PAVEMENT MARKING LEGEND

- Ⓐ PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- Ⓑ PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- Ⓒ PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- Ⓓ PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- Ⓔ PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- Ⓕ PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- Ⓖ PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- Ⓗ PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- Ⓘ PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- Ⓙ PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- Ⓚ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
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- Ⓝ PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- Ⓞ PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- Ⓟ PAVEMENT MARKING CURB EPOXY (YELLOW)
- Ⓠ PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- Ⓡ PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- Ⓢ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- Ⓣ PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- Ⓤ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- Ⓥ PAVEMENT MARKING SYMBOL HANDICAP
- Ⓦ PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 413	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024501_PM.DWG PLOT DATE : 10/20/2016 3:46 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

CONTINUES TO STA 382+50

382+00

381+00

WEEKS AVE

45°, 7.0' SPACING (TYP)

US 2 (BELKNAP ST)

MATCHLINE STA 170+50

171+00

172+00

173+00

174+00

380+00

390+00

175+00

176+00

177+00

MATCHLINE STA 177+50

389+00

388+00

CLOUGH AVE

E-WAY

PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (D) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (E) PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- (F) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- (H) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- (J) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (K) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (L) PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- (M) PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- (N) PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- (O) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (P) PAVEMENT MARKING CURB EPOXY (YELLOW)
- (Q) PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- (R) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (S) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 414	E

2

2

N

FISHER AVE

CATLIN AVE

US 2 (BELKNAP ST)

45°, 7.0' SPACING (TYP)

MATCHLINE STA 175+50

MATCHLINE STA 184+50

175+50 177+71 178+00 179+00 179+87 180+00 180+62 181+00 182+00 184+00 184+25

400+00 401+00 402+00 399+00 398+00 397+75 410+00 411+00 411+53 412+00 409+00 408+64 408+00

PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (D) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (E) PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- (F) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- (H) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- (J) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (K) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (L) PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- (M) PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- (N) PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- (O) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (P) PAVEMENT MARKING CURB EPOXY (YELLOW)
- (Q) PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- (R) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (S) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 415	E

2

N

BIRCH AVE

CYPRESS AVE

MORTORELLI DRIVE

US 2 (BELKNAP ST)

45°, 4.0' SPACING

9.0'

422+00

421+00

420+00

432+00

431+00

430+00

440+00

439+00

438+00

MATCHLINE STA 184+50

MATCHLINE STA 191+00

184+50

185+00

186+00

187+00

187+99

188+00

189+00

190+00

190+10

190+85

191+00

PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (D) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (E) PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- (F) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- (H) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- (J) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (K) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (L) PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- (M) PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- (N) PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- (O) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- (P) PAVEMENT MARKING CURB EPOXY (YELLOW)
- (Q) PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- (R) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (S) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 416	E

2

N

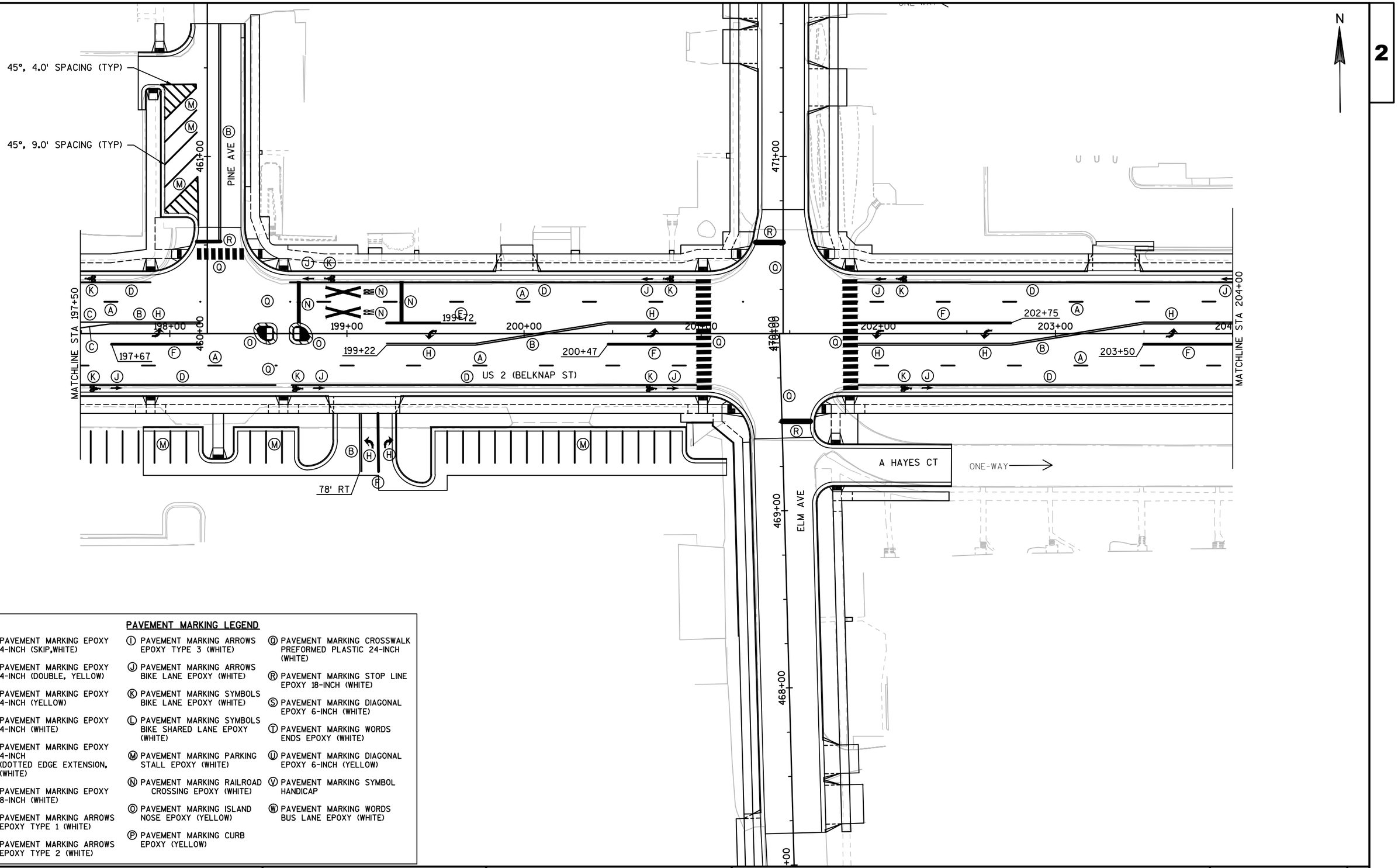
452+00
451+49
POPLAR AVE
451+00
450+00
MATCHLINE STA 191+00
MATCHLINE STA 197+50
US 2 (BELKNAP ST)
191+41
192+00
192+75
193+00
193+27
194+00
194+05
195+00
195+47
196+00
197+00
129705
629.326
IP
129706
629.624
IP
129707
629.484
IP
129708
629.000
PK AKA 67202
129700
628.282
IP
129702
628.060
IP
45°, 10.0' SPACING

PAVEMENT MARKING LEGEND

- Ⓐ PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- Ⓑ PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- Ⓒ PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- Ⓓ PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- Ⓔ PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
- Ⓕ PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- Ⓖ PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
- Ⓗ PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
- Ⓘ PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- Ⓙ PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- Ⓚ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- Ⓛ PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY (WHITE)
- Ⓜ PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- Ⓝ PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- Ⓞ PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- Ⓟ PAVEMENT MARKING CURB EPOXY (YELLOW)
- Ⓠ PAVEMENT MARKING CROSSWALK PREFORMED PLASTIC 24-INCH (WHITE)
- Ⓡ PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- Ⓢ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
- Ⓣ PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- Ⓤ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- Ⓥ PAVEMENT MARKING SYMBOL HANDICAP
- Ⓦ PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 417	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\024501_PM.DWG
PLOT DATE : 10/20/2016 3:46 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42



PAVEMENT MARKING LEGEND

- Ⓐ PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- Ⓑ PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- Ⓒ PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- Ⓓ PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- Ⓔ PAVEMENT MARKING EPOXY 4-INCH (DOTTED EDGE EXTENSION, (WHITE)
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- Ⓖ PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
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- Ⓘ PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
- Ⓙ PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- Ⓚ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
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- Ⓜ PAVEMENT MARKING PARKING STALL EPOXY (WHITE)
- Ⓝ PAVEMENT MARKING RAILROAD CROSSING EPOXY (WHITE)
- Ⓞ PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
- Ⓟ PAVEMENT MARKING CURB EPOXY (YELLOW)
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- Ⓢ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)
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- Ⓤ PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- Ⓥ PAVEMENT MARKING SYMBOL HANDICAP
- Ⓦ PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MARKING	SHEET 418	E

2

N

CEDAR AVE

482+00

481+00

480+00

490+00

489+00

488+00

487+50

502+00

501+00

500+00

MATCHLINE STA 204+00

MATCHLINE STA 205+50

205+00

206+00

207+00

207+32

207+21

208+00

500+79

209+49

209+69

210+00

211+00

510+00

509+28

499+04

499+00

498+00

A HAYES CT ONE-WAY

HILL AVE

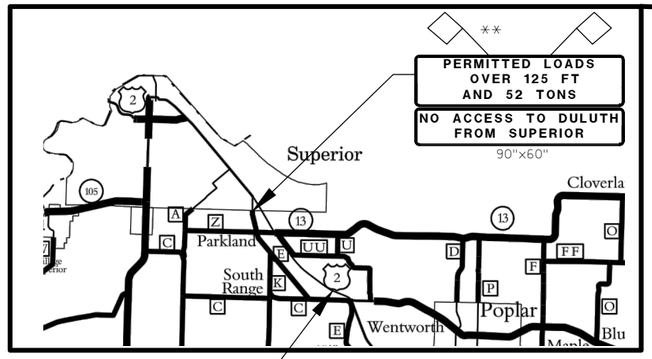
PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING EPOXY 4-INCH (SKIP,WHITE)
- (B) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (C) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
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- (T) PAVEMENT MARKING WORDS ENDS EPOXY (WHITE)
- (U) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (V) PAVEMENT MARKING SYMBOL HANDICAP
- (W) PAVEMENT MARKING WORDS BUS LANE EPOXY (WHITE)

PROJECT NO: 8680-00-71	HWY: US 2 - BELKNAP STREET	COUNTY: DOUGLAS	PAVEMENT MAKRING	SHEET 419	E

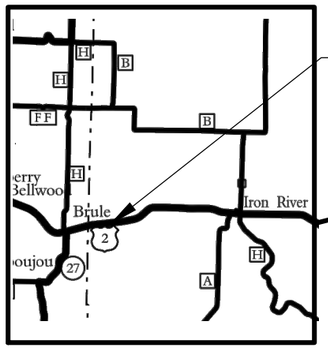
**FLAGS ARE INCIDENTAL TO ITEM 643.1000

2

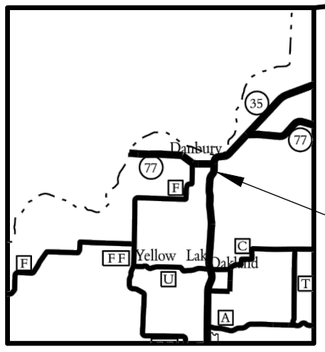


**
PERMITTED LOADS OVER 125 FT AND 52 TONS
NO ACCESS TO DULUTH FROM SUPERIOR
90"x60"

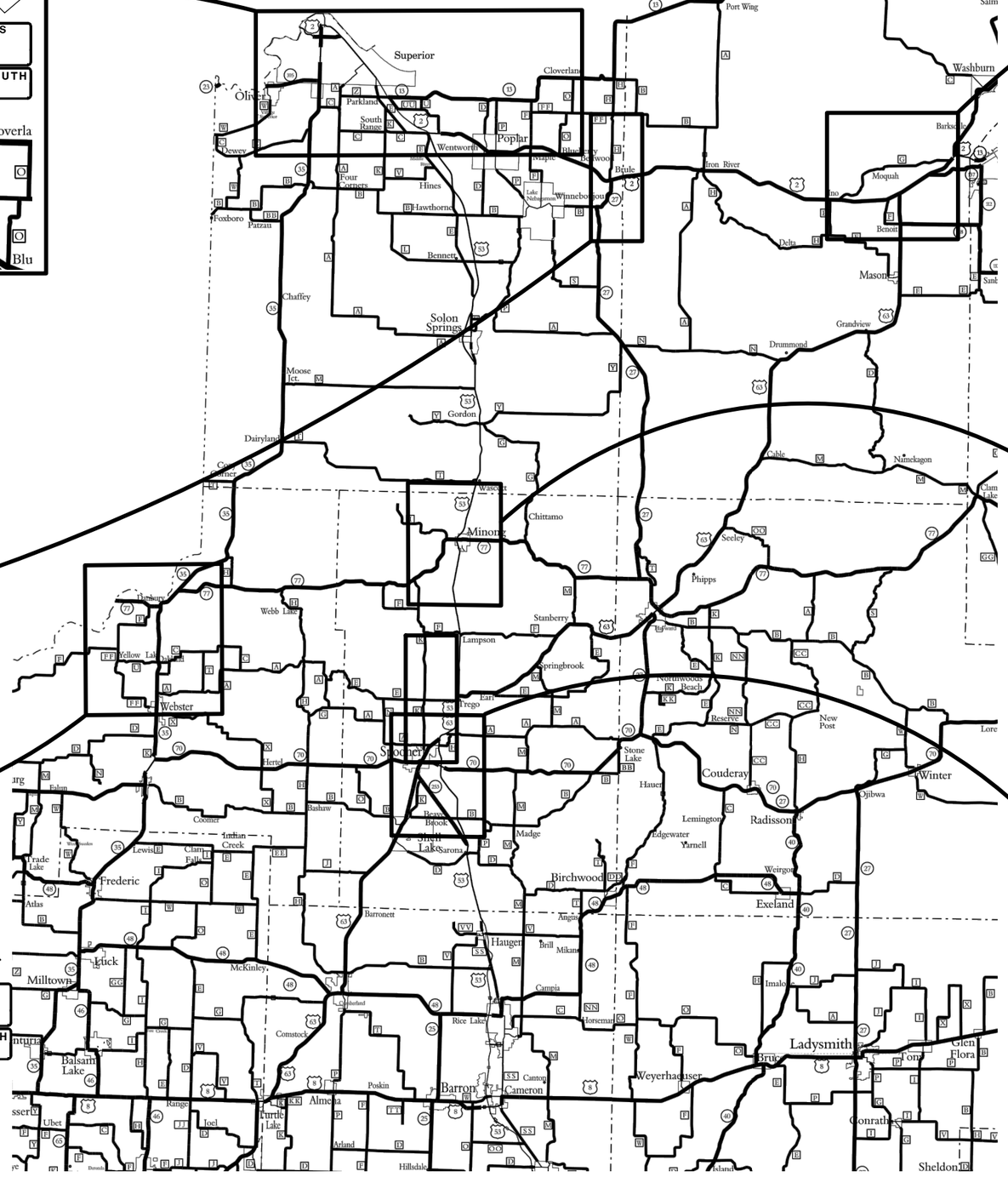
**
PERMITTED LOADS OVER 125 FT AND 52 TONS
NO ACCESS TO DULUTH FROM SUPERIOR
120"x78"



**
PERMITTED LOADS OVER 125 FT AND 52 TONS
NO ACCESS TO DULUTH FROM SUPERIOR
120"x78"



**
PERMITTED LOADS OVER 125 FT AND 52 TONS
NO ACCESS TO DULUTH FROM SUPERIOR
90"x60"



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	ALTERNATE ROUTE / TRUCK DETOUR ROUTE	SHEET 420	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\027006_DT.DWG
LAYOUT NAME - ####
PLOT DATE : 10/21/2016 1:08 PM PLOT BY : NICK ENGH PLOT NAME : ---------- PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

GENERAL TRAFFIC CONTROL NOTES:

REFER TO SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" FOR ADDITIONAL GENERAL NOTES. PLACE SIDE STREET ADVANCE WARNING SIGNS APPROXIMATELY 350 FEET IN ADVANCE OF THE STREET CONSTRUCTION, OR AT LAST INTERSECTION WHEN POSSIBLE. SEE TRAFFIC CONTROL DETAIL SHEET FOR 'CONSECUTIVE SIDE STREETS' ALTERNATING OPEN AND CLOSED SIDE STREETS.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

ALL TYPE III BARRICADES SHALL HAVE AN EQUIVALENT WIDTH OF 8 FEET.

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS, AND DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH TYPE "C" (STEADY BURN) LIGHTS.

PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH SHALL BE REMOVED. SEE MISCELLANEOUS QUANTITY TABLE FOR REMOVING PAVEMENT MARKINGS.

CONSTRUCTION WORK MAY NOT TAKE PLACE CONCURRENTLY ON BOTH SIDES OF THE ACTIVE-STAGE THROUGH TRAFFIC LANES WITHIN THE SAME BLOCK. CONSTRUCTION TRAFFIC WILL BE ALLOWED TO ACCESS WORKING AREAS FROM BOTH SIDES OF THE ACTIVE-STAGE THROUGH TRAFFIC LANES.

NOTES:

EACH W20-1A SIGN SHALL BE REPLACED WITH A W20-3A SIGN (ROAD CLOSED AHEAD) WHEN CONSTRUCTION REQUIRES A STREET CLOSURE.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR WARNING SIGNS ON SIDE STREETS THAT ARE OPEN TO TRAFFIC AND FOR OTHER NOTES REGARDING SIGNS.

SEE TEMPORARY TRAFFIC SIGNAL PLAN DETAIL SHEETS FOR EXISTING SIGNALIZED INTERSECTIONS.

INSTALL SIGNS PCMS (MESSAGE BOARD) 7 DAYS IN ADVANCE OF CONSTRUCTION STARTING DATE FOR EACH YEAR.

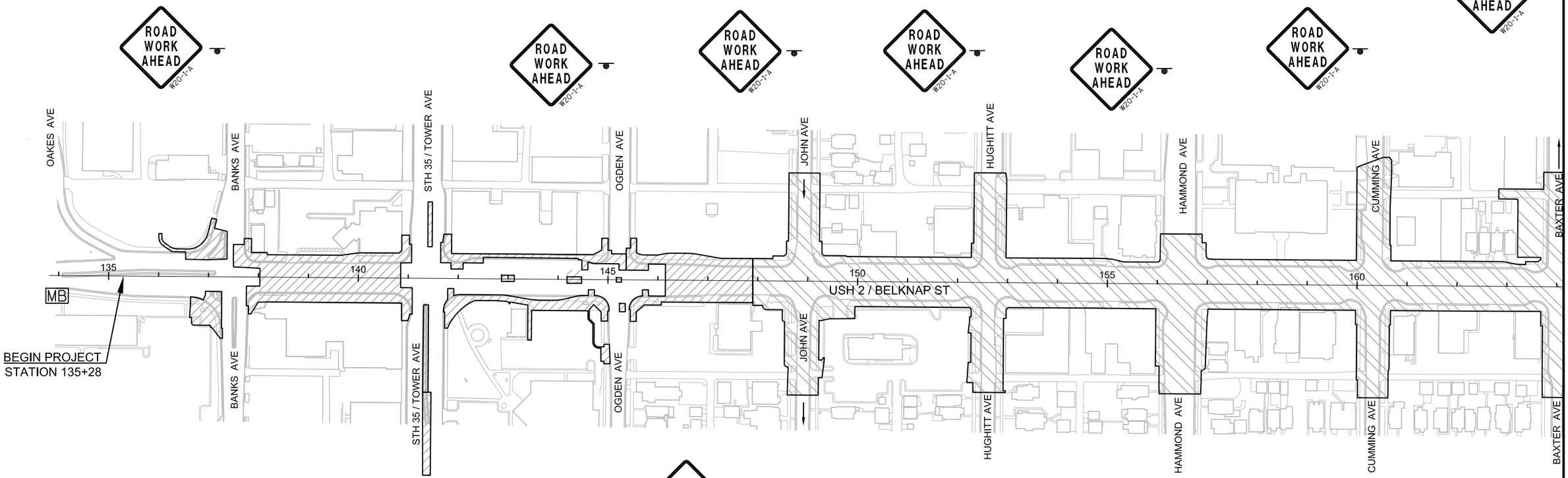
LEGEND

WORK ZONE YEAR ONE

WORK ZONE YEAR TWO

MB PORTABLE CHANGEABLE MESSAGE SIGN

N



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL - OVERVIEW SHEET 1	SHEET 421	E

GENERAL TRAFFIC CONTROL NOTES:

REFER TO SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" FOR ADDITIONAL GENERAL NOTES. PLACE SIDE STREET ADVANCE WARNING SIGNS APPROXIMATELY 350 FEET IN ADVANCE OF THE STREET CONSTRUCTION, OR AT LAST INTERSECTION WHEN POSSIBLE. SEE TRAFFIC CONTROL DETAIL SHEET FOR 'CONSECUTIVE SIDE STREETS' ALTERNATING OPEN AND CLOSED SIDE STREETS.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

ALL TYPE III BARRICADES SHALL HAVE AN EQUIVALENT WIDTH OF 8 FEET.

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS, AND DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH TYPE "C" (STEADY BURN) LIGHTS.

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CONSTRUCTION WORK MAY NOT TAKE PLACE CONCURRENTLY ON BOTH SIDES OF THE ACTIVE-STAGE THROUGH TRAFFIC LANES WITHIN THE SAME BLOCK. CONSTRUCTION TRAFFIC WILL BE ALLOWED TO ACCESS WORKING AREAS FROM BOTH SIDES OF THE ACTIVE-STAGE THROUGH TRAFFIC LANES.

NOTES:

EACH W20-1A SIGN SHALL BE REPLACED WITH A W20-3A SIGN (ROAD CLOSED AHEAD) WHEN CONSTRUCTION REQUIRES A STREET CLOSURE.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR WARNING SIGNS ON SIDE STREETS THAT ARE OPEN TO TRAFFIC AND FOR OTHER NOTES REGARDING SIGNS.

SEE TEMPORARY TRAFFIC SIGNAL PLAN DETAIL SHEETS FOR EXISTING SIGNALIZED INTERSECTIONS.

INSTALL SIGNS PCMS (MESSAGE BOARD) 7 DAYS IN ADVANCE OF CONSTRUCTION STARTING DATE FOR EACH YEAR.

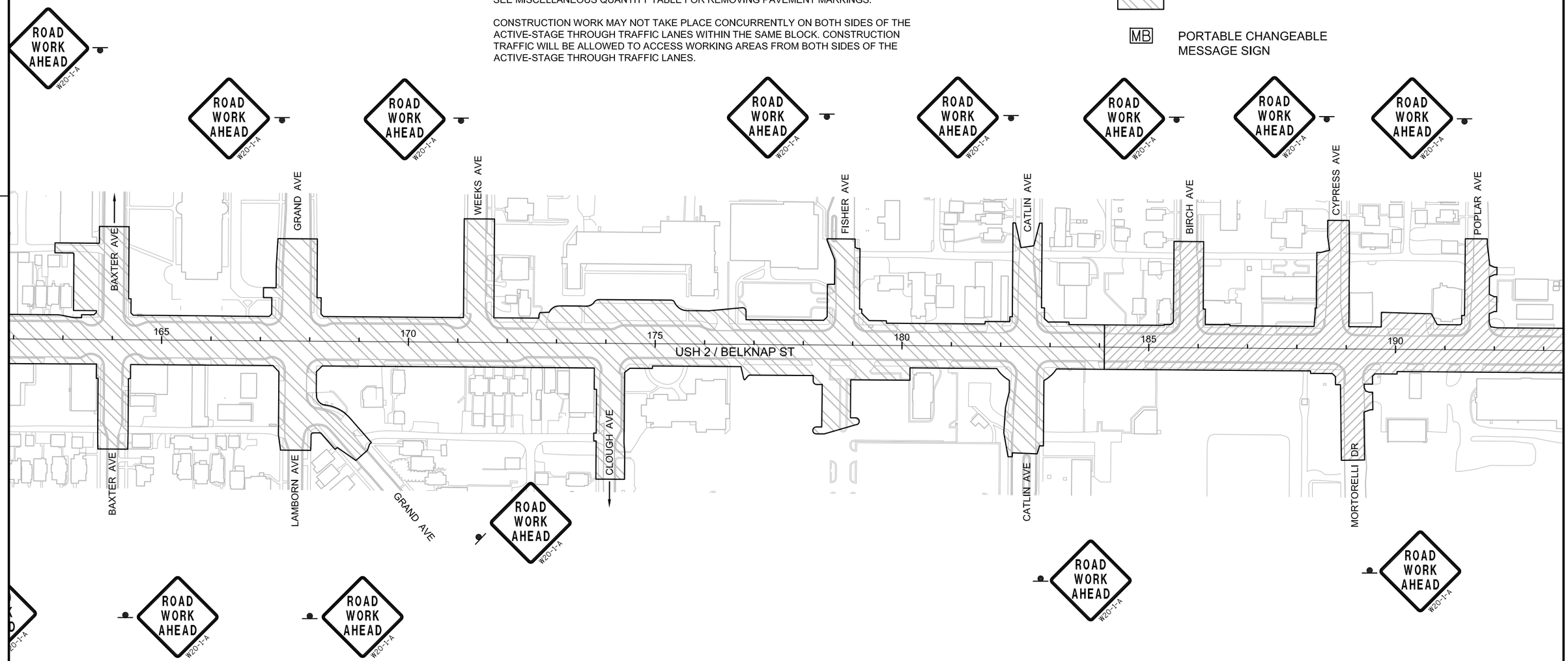
LEGEND

WORK ZONE YEAR ONE

WORK ZONE YEAR TWO

MB PORTABLE CHANGEABLE MESSAGE SIGN

N



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL - OVERVIEW SHEET 2	SHEET 422 E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/22/2016 5:38 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1:200_XREF

WISDOT/CADDS SHEET 42

GENERAL TRAFFIC CONTROL NOTES:

REFER TO SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" FOR ADDITIONAL GENERAL NOTES. PLACE SIDE STREET ADVANCE WARNING SIGNS APPROXIMATELY 350 FEET IN ADVANCE OF THE STREET CONSTRUCTION, OR AT LAST INTERSECTION WHEN POSSIBLE. SEE TRAFFIC CONTROL DETAIL SHEET FOR 'CONSECUTIVE SIDE STREETS' ALTERNATING OPEN AND CLOSED SIDE STREETS.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

ALL TYPE III BARRICADES SHALL HAVE AN EQUIVALENT WIDTH OF 8 FEET.

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS, AND DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH TYPE "C" (STEADY BURN) LIGHTS.

PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH SHALL BE REMOVED. SEE MISCELLANEOUS QUANTITY TABLE FOR REMOVING PAVEMENT MARKINGS.

CONSTRUCTION WORK MAY NOT TAKE PLACE CONCURRENTLY ON BOTH SIDES OF THE ACTIVE-STAGE THROUGH TRAFFIC LANES WITHIN THE SAME BLOCK. CONSTRUCTION TRAFFIC WILL BE ALLOWED TO ACCESS WORKING AREAS FROM BOTH SIDES OF THE ACTIVE-STAGE THROUGH TRAFFIC LANES.

NOTES:

EACH W20-1A SIGN SHALL BE REPLACED WITH A W20-3A SIGN (ROAD CLOSED AHEAD) WHEN CONSTRUCTION REQUIRES A STREET CLOSURE.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR WARNING SIGNS ON SIDE STREETS THAT ARE OPEN TO TRAFFIC AND FOR OTHER NOTES REGARDING SIGNS.

SEE TEMPORARY TRAFFIC SIGNAL PLAN DETAIL SHEETS FOR EXISTING SIGNALIZED INTERSECTIONS.

INSTALL SIGNS PCMS (MESSAGE BOARD) 7 DAYS IN ADVANCE OF CONSTRUCTION STARTING DATE FOR EACH YEAR.

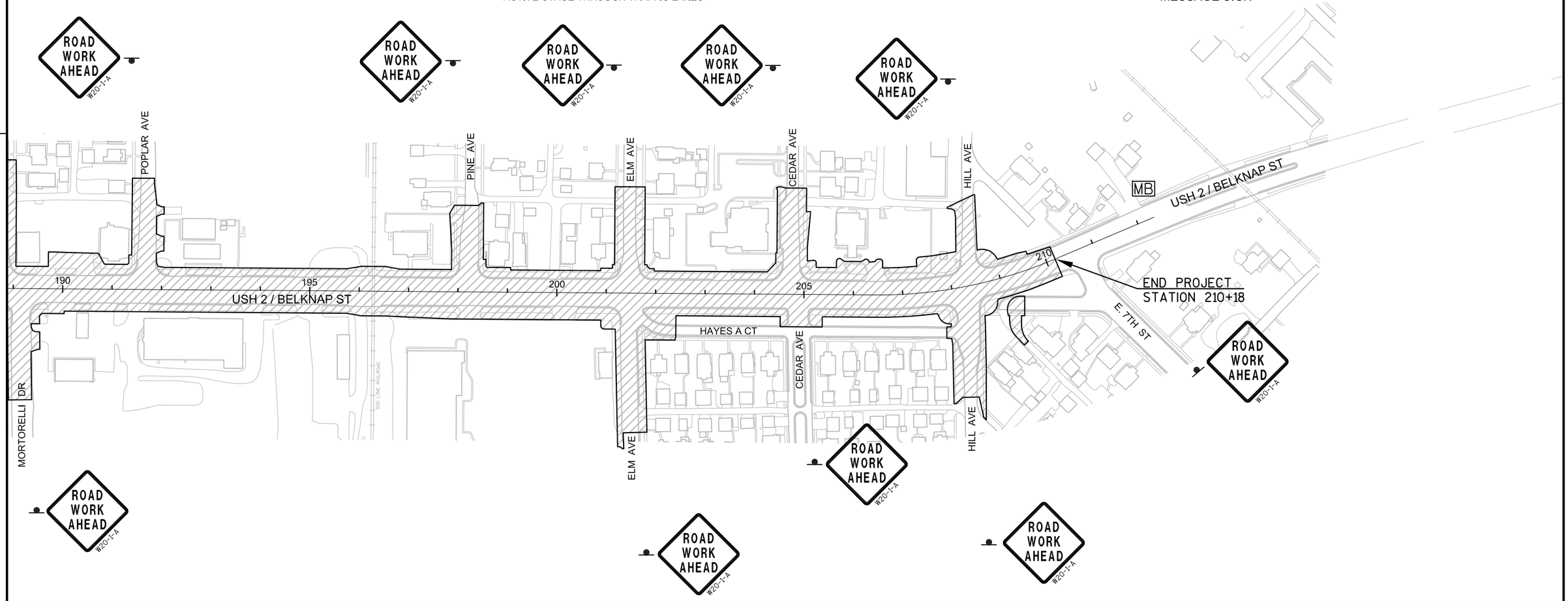
LEGEND

WORK ZONE YEAR ONE

WORK ZONE YEAR TWO

MB PORTABLE CHANGEABLE MESSAGE SIGN

N



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL - OVERVIEW SHEET 3	SHEET 423	E

2

GENERAL DETOUR NOTES:

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, "TYPE A".

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

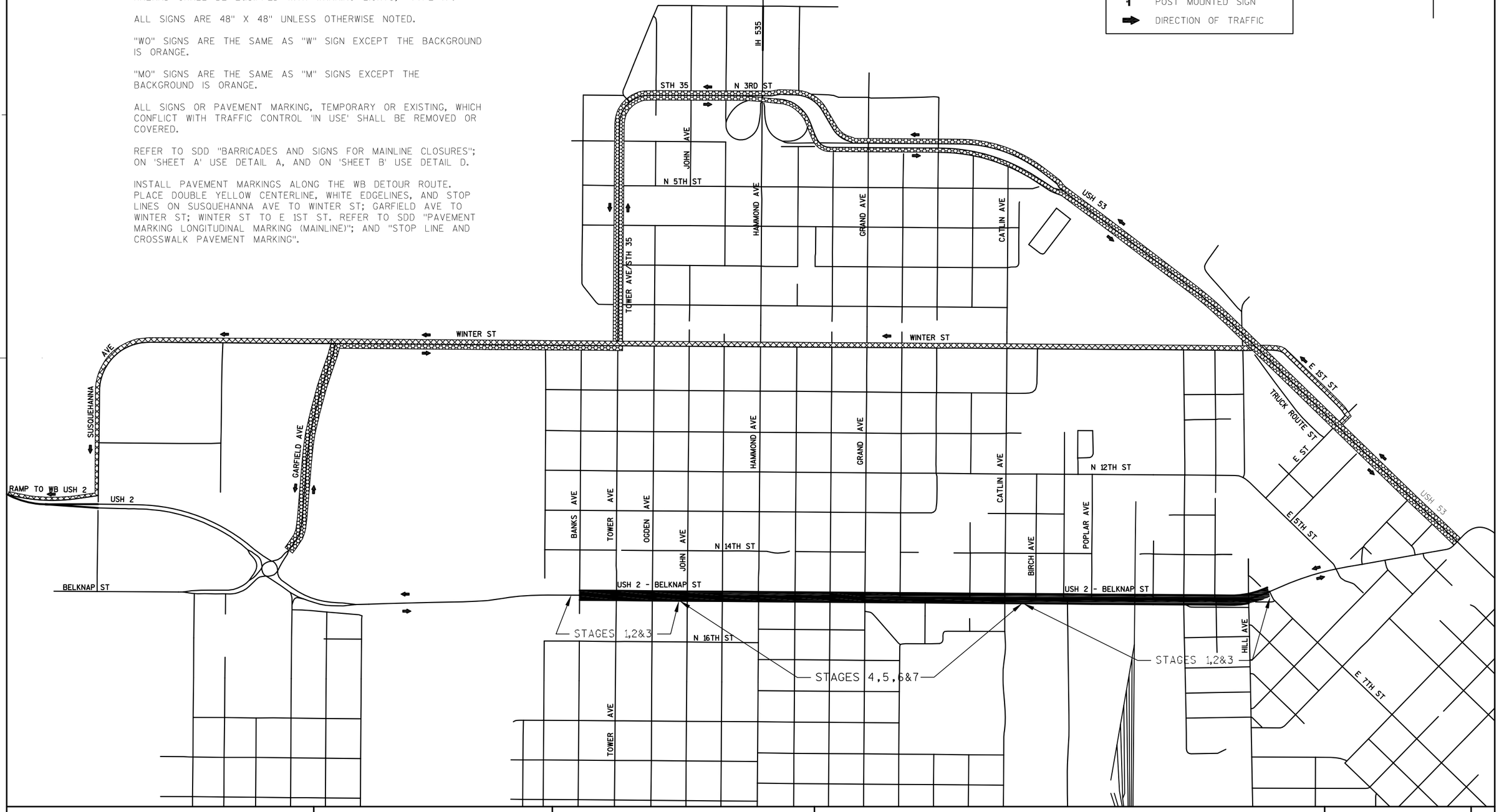
ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL 'IN USE' SHALL BE REMOVED OR COVERED.

REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"; ON 'SHEET A' USE DETAIL A, AND ON 'SHEET B' USE DETAIL D.

INSTALL PAVEMENT MARKINGS ALONG THE WB DETOUR ROUTE. PLACE DOUBLE YELLOW CENTERLINE, WHITE EDGELINES, AND STOP LINES ON SUSQUEHANNA AVE TO WINTER ST; GARFIELD AVE TO WINTER ST; WINTER ST TO E 1ST ST. REFER TO SDD "PAVEMENT MARKING LONGITUDINAL MARKING (MAINLINE)"; AND "STOP LINE AND CROSSWALK PAVEMENT MARKING".

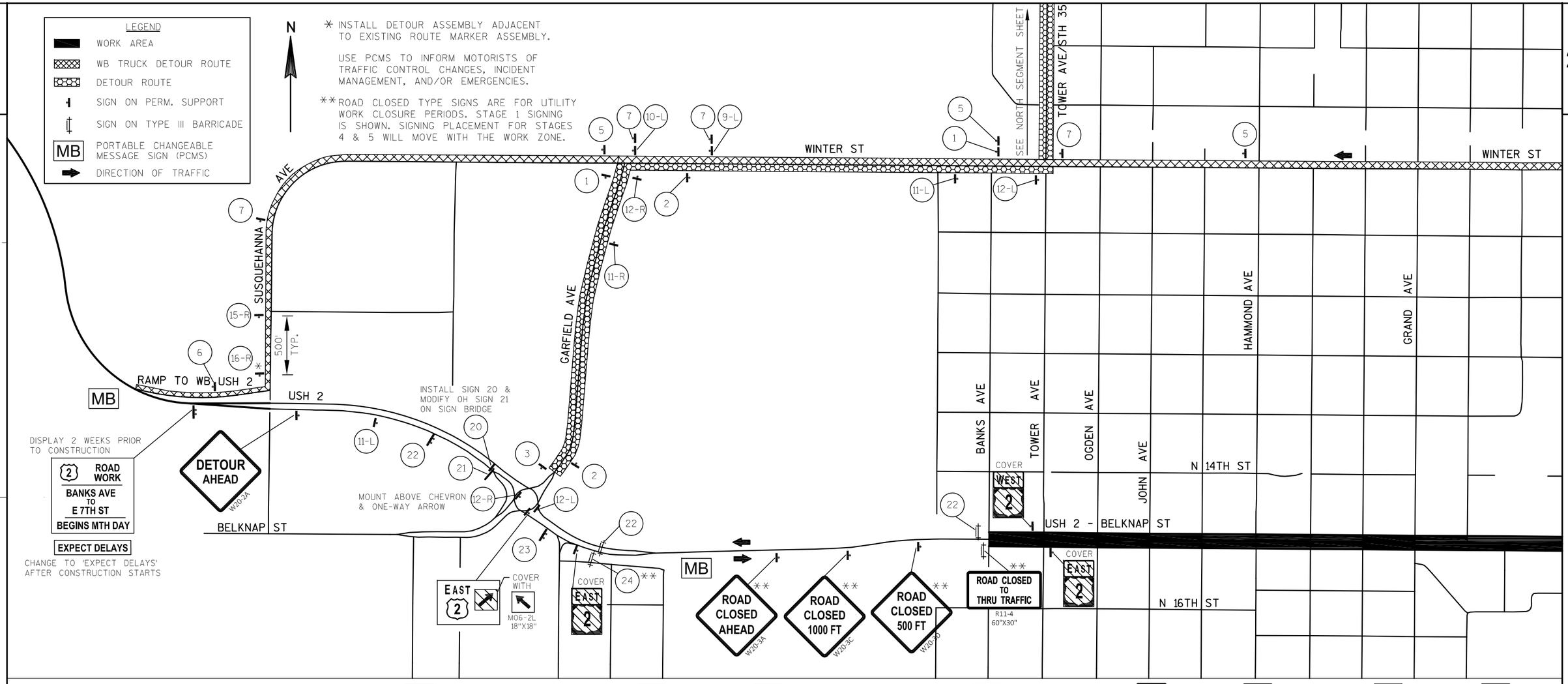
LEGEND
- WORK AREA
- WB TRUCK DETOUR ROUTE
- DETOUR ROUTE
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC

N



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	DETOUR ROUTE OVERVIEW	SHEET 424	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\027000_DT.DWG PLOT DATE : 10/21/2016 11:47 AM PLOT BY : USER PLOT NAME : ---------- PLOT SCALE : 1" = 1000'_XREF
WISDOT/CADDS SHEET 42



GENERAL DETOUR NOTES:

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, "TYPE A".

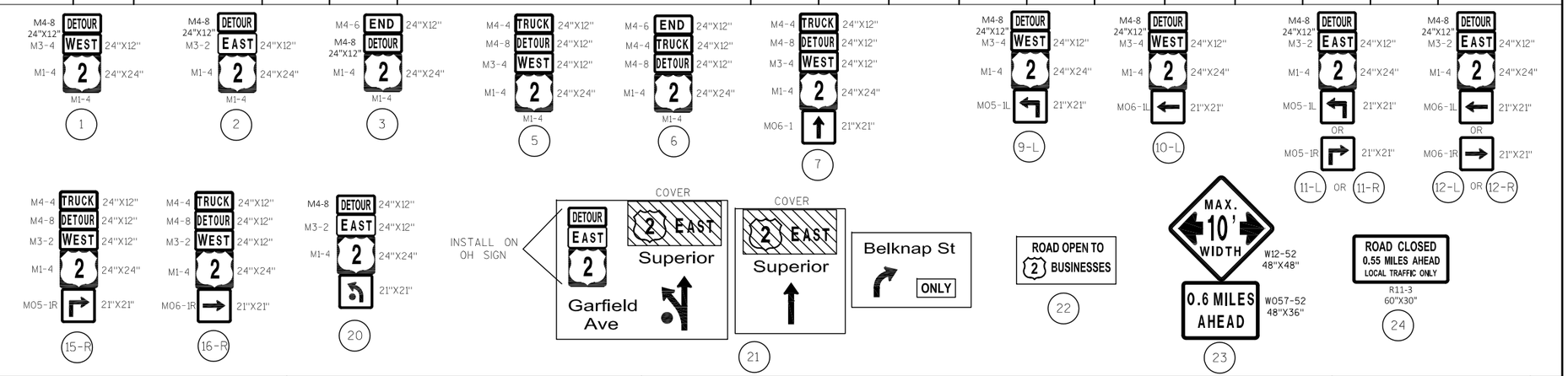
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

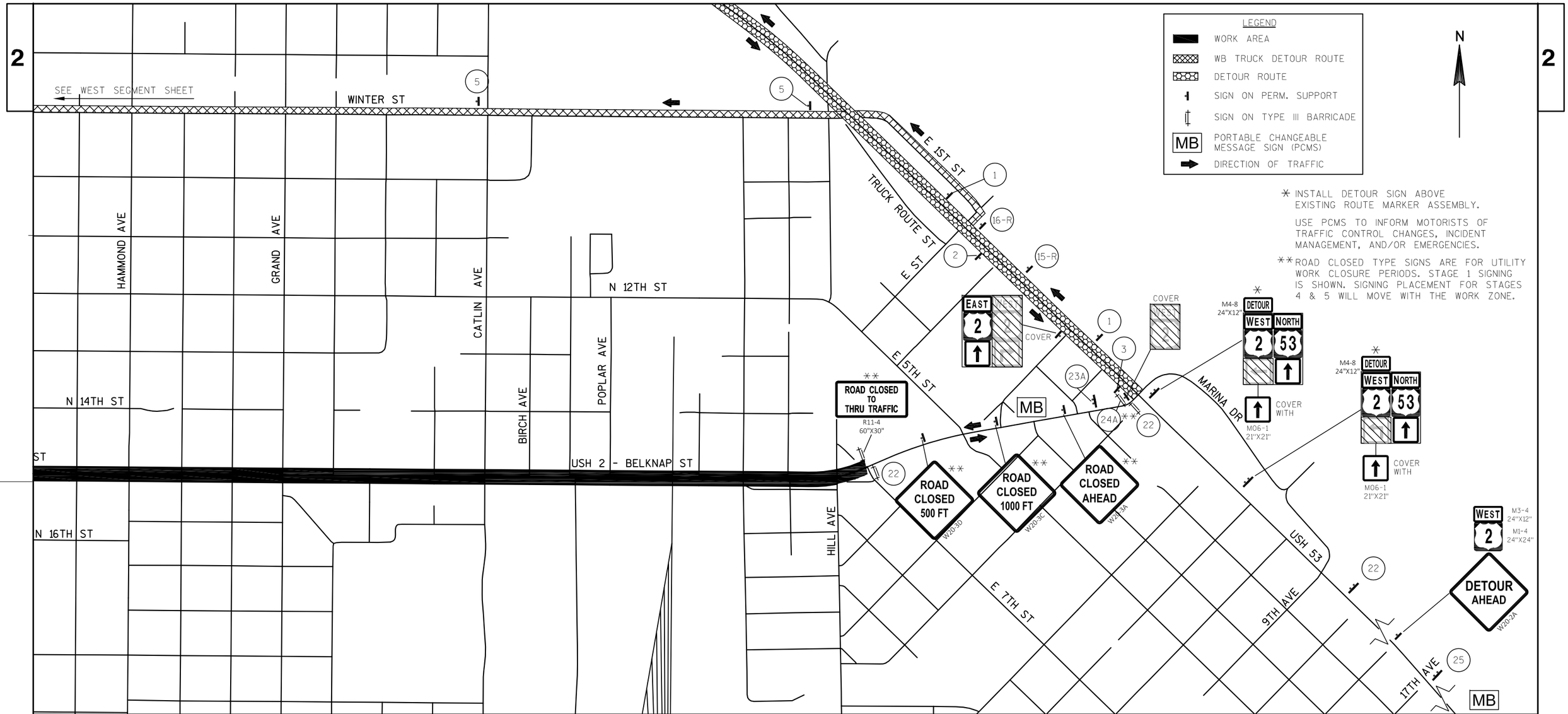
"WO" SIGNS ARE THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	DETOUR ROUTE (WEST SEGMENT)	SHEET 425	E



GENERAL DETOUR NOTES:

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, "TYPE A".

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

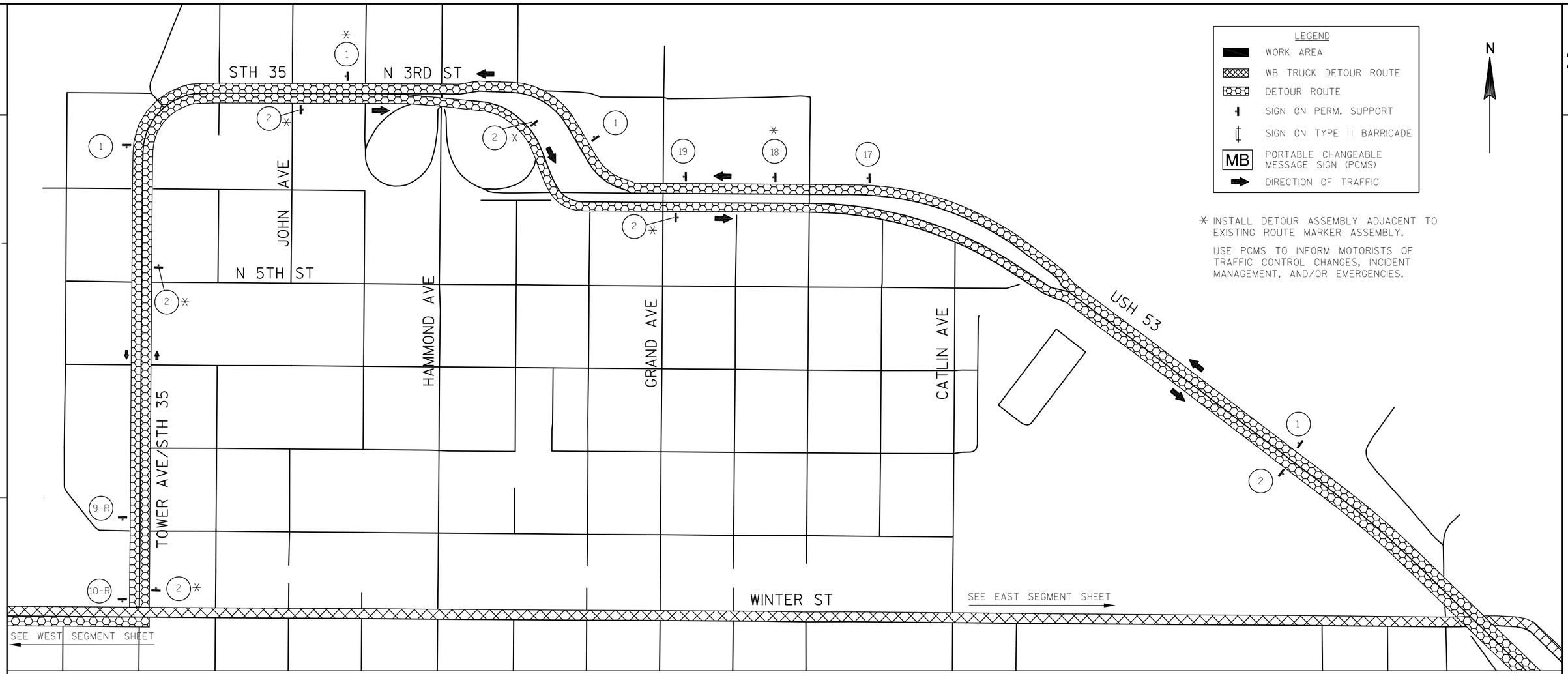
"WO" SIGNS ARE THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

1: M4-8 24"X12" DETOUR; M3-4 WEST 24"X12"; M1-4 2 24"X24"; M1-4
2: M4-8 24"X12" DETOUR; M3-2 EAST 24"X12"; M1-4 2 24"X24"; M1-4
3: M4-6 END 24"X12"; M4-8 24"X12" DETOUR; M1-4 2 24"X24"; M1-4
5: M4-4 TRUCK 24"X12"; M4-8 DETOUR 24"X12"; M3-4 WEST 24"X12"; M1-4 2 24"X24"; M1-4
15-R: M4-4 TRUCK 24"X12"; M4-8 DETOUR 24"X12"; M3-4 WEST 24"X12"; M1-4 2 24"X24"; MO5-1R 21"X21"
16-R: M4-4 TRUCK 24"X12"; M4-8 DETOUR 24"X12"; M3-4 WEST 24"X12"; M1-4 2 24"X24"; MO6-1R 21"X21"
22: ROAD OPEN TO 2 BUSINESSES
23A: MAX. 10' WIDTH W12-52 48"X48"; 0.4 MI. AHEAD W057-52 48"X36"
24A: ROAD CLOSED 0.4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"
25: DISPLAY 2 WEEKS PRIOR TO CONSTRUCTION — 2 ROAD WORK E 7TH ST TO BANKS AVE BEGINS MTH DAY; EXPECT DELAYS; CHANGE TO 'EXPECT DELAYS' AFTER CONSTRUCTION STARTS

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	DETOUR ROUTE (EAST SEGMENT)	SHEET 426	E



GENERAL DETOUR NOTES:

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, "TYPE A".

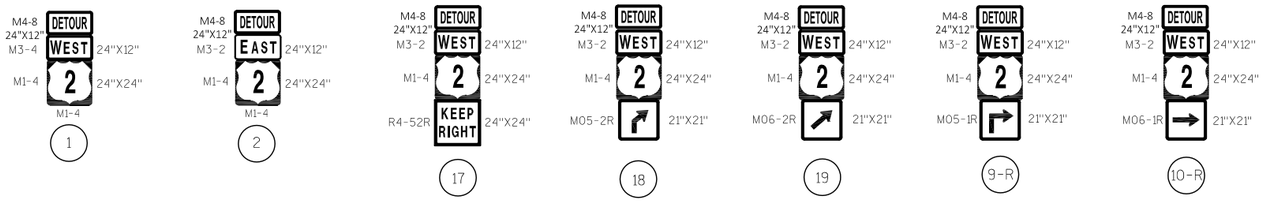
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

"WO" SIGNS ARE THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	DETOUR ROUTE (NORTH SEGMENT)	SHEET 427	E

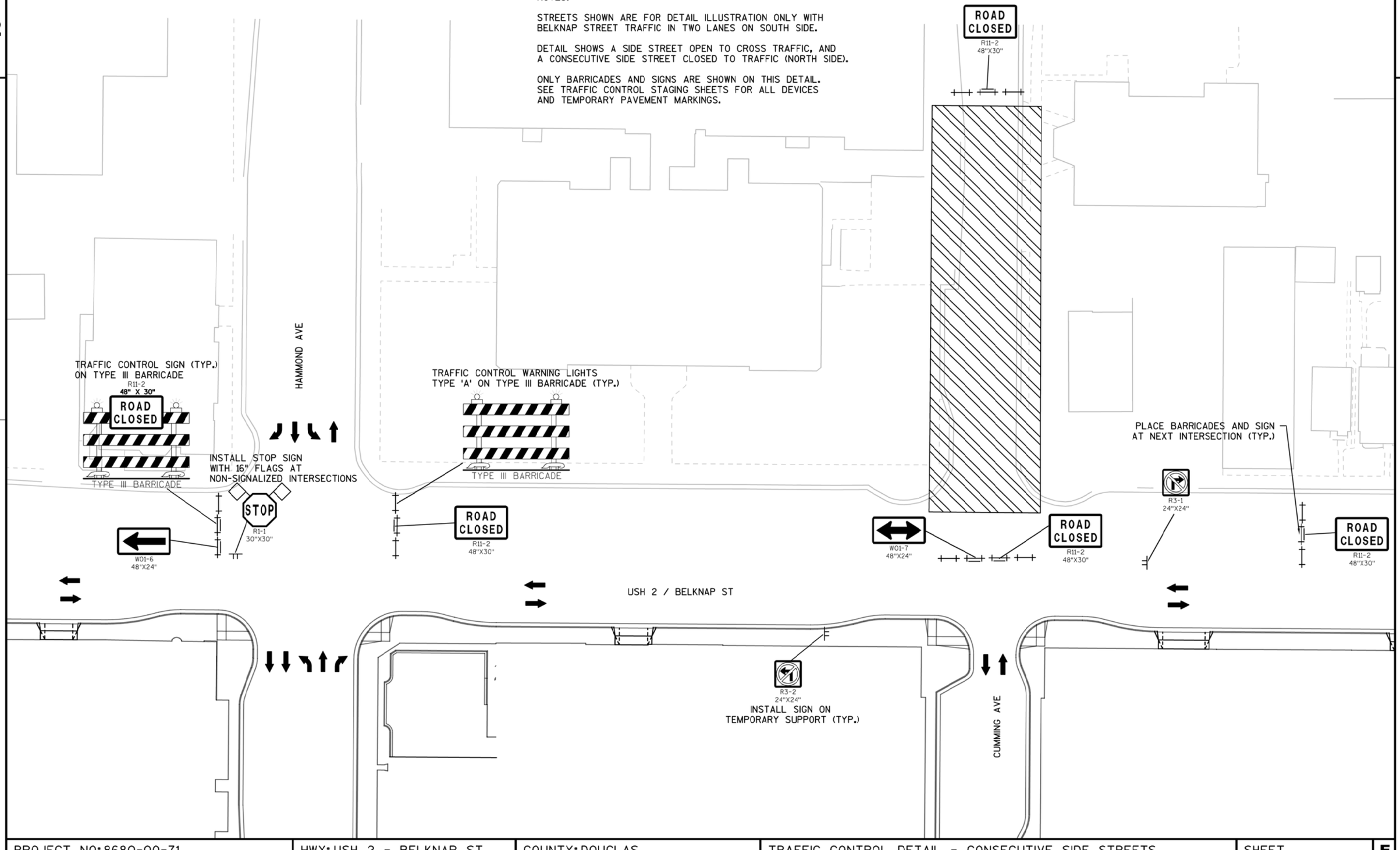
FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\027000_DT.DWG PLOT DATE : 9/14/2016 9:06 AM PLOT BY : USER PLOT NAME : ---------- PLOT SCALE : 1" = 500'_XREF
WISDOT/CADDS SHEET 42

NOTES:

STREETS SHOWN ARE FOR DETAIL ILLUSTRATION ONLY WITH BELKNAP STREET TRAFFIC IN TWO LANES ON SOUTH SIDE.

DETAIL SHOWS A SIDE STREET OPEN TO CROSS TRAFFIC, AND A CONSECUTIVE SIDE STREET CLOSED TO TRAFFIC (NORTH SIDE).

ONLY BARRICADES AND SIGNS ARE SHOWN ON THIS DETAIL. SEE TRAFFIC CONTROL STAGING SHEETS FOR ALL DEVICES AND TEMPORARY PAVEMENT MARKINGS.



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL DETAIL - CONSECUTIVE SIDE STREETS	SHEET E

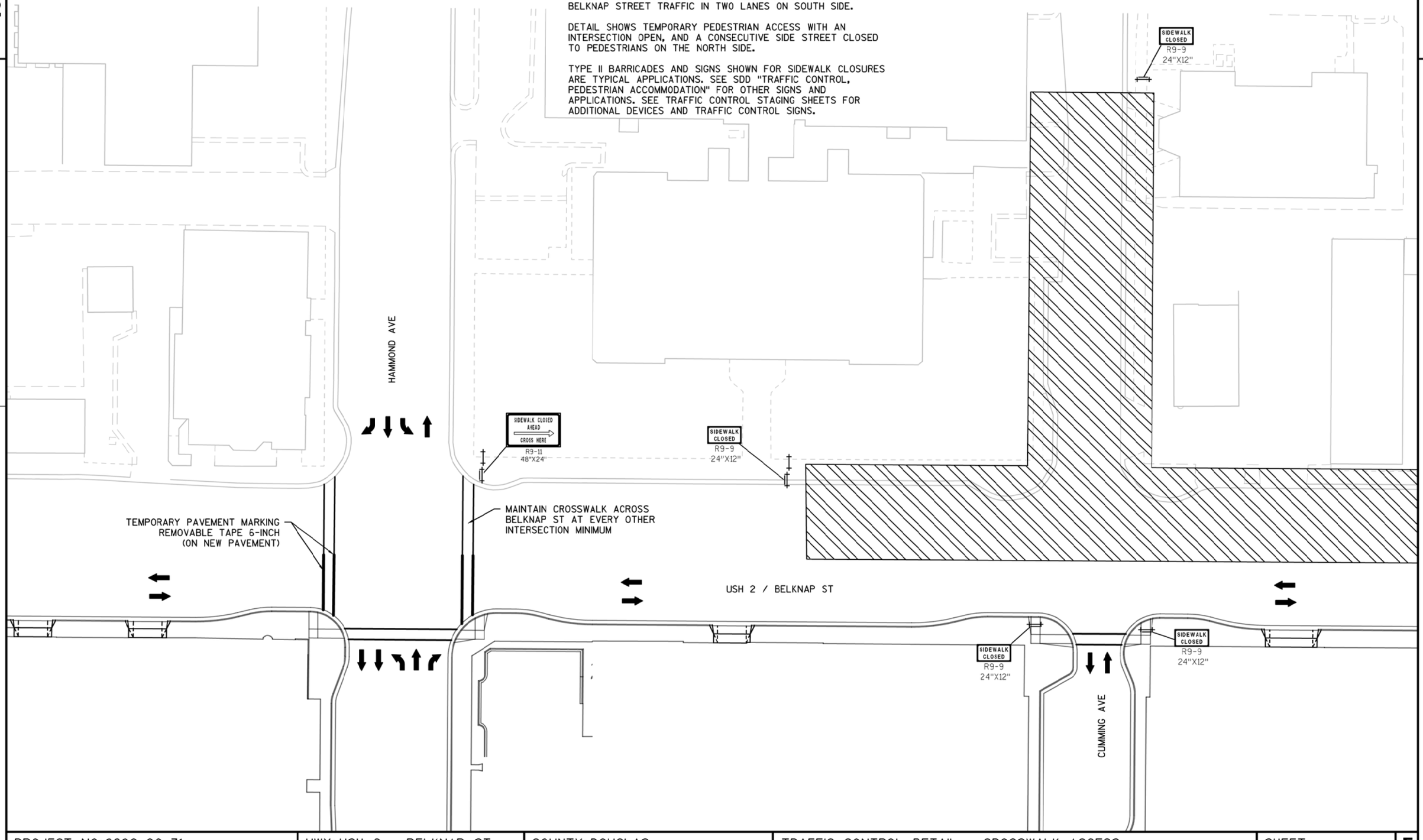
FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\021001_CD_TC.DWG
1505_021001_CD - 01
PLOT DATE : 7/8/2016 3:35 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

NOTES:

STREETS SHOWN ARE FOR DETAIL ILLUSTRATION ONLY WITH BELKNAP STREET TRAFFIC IN TWO LANES ON SOUTH SIDE.

DETAIL SHOWS TEMPORARY PEDESTRIAN ACCESS WITH AN INTERSECTION OPEN, AND A CONSECUTIVE SIDE STREET CLOSED TO PEDESTRIANS ON THE NORTH SIDE.

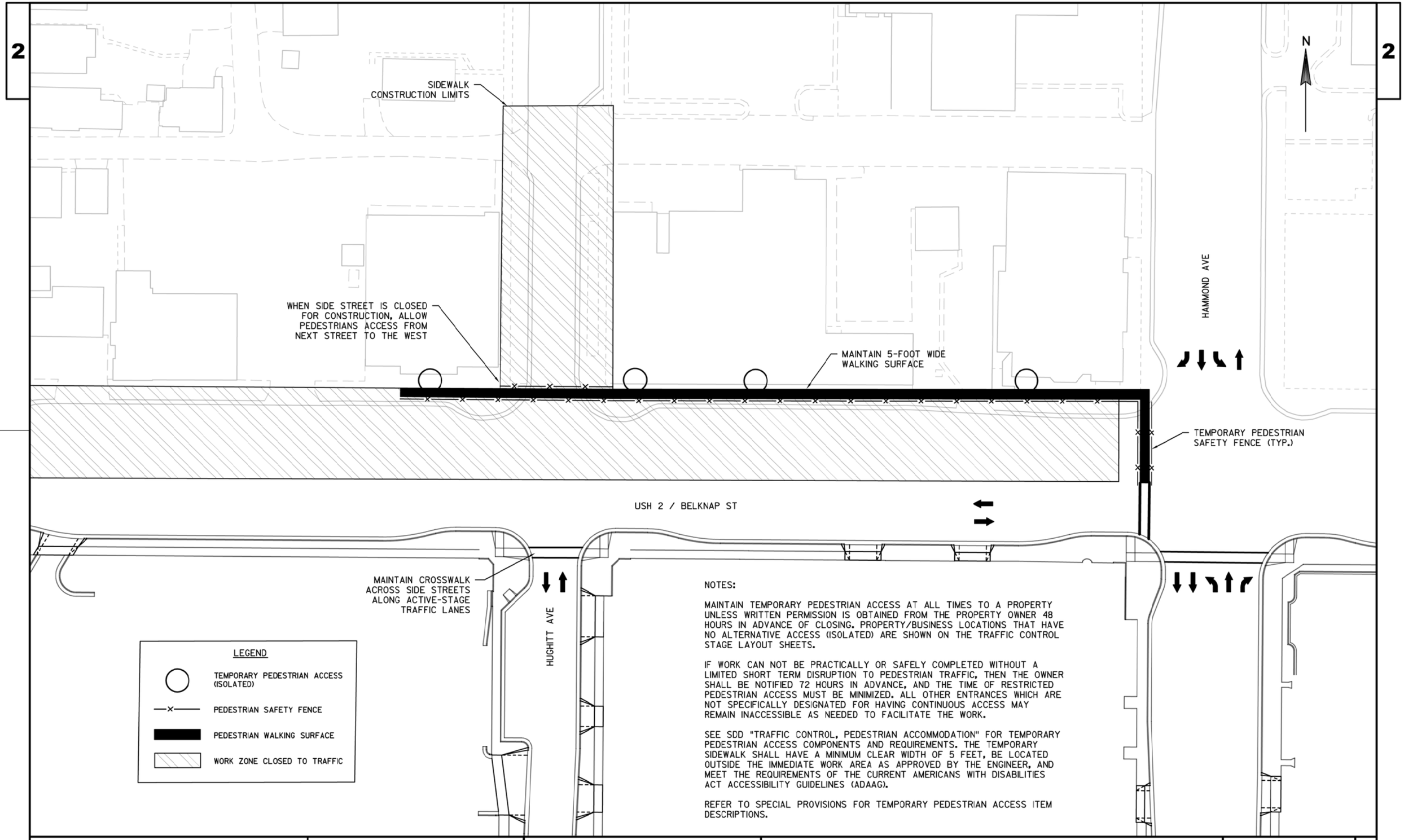
TYPE II BARRICADES AND SIGNS SHOWN FOR SIDEWALK CLOSURES ARE TYPICAL APPLICATIONS. SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR OTHER SIGNS AND APPLICATIONS. SEE TRAFFIC CONTROL STAGING SHEETS FOR ADDITIONAL DEVICES AND TRAFFIC CONTROL SIGNS.



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL DETAIL - CROSSWALK ACCESS	SHEET E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\021001_CD_TC.DWG
1505_021001_CD - 01
PLOT DATE : 7/8/2016 3:36 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



NOTES:

MAINTAIN TEMPORARY PEDESTRIAN ACCESS AT ALL TIMES TO A PROPERTY UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE PROPERTY OWNER 48 HOURS IN ADVANCE OF CLOSING. PROPERTY/BUSINESS LOCATIONS THAT HAVE NO ALTERNATIVE ACCESS (ISOLATED) ARE SHOWN ON THE TRAFFIC CONTROL STAGE LAYOUT SHEETS.

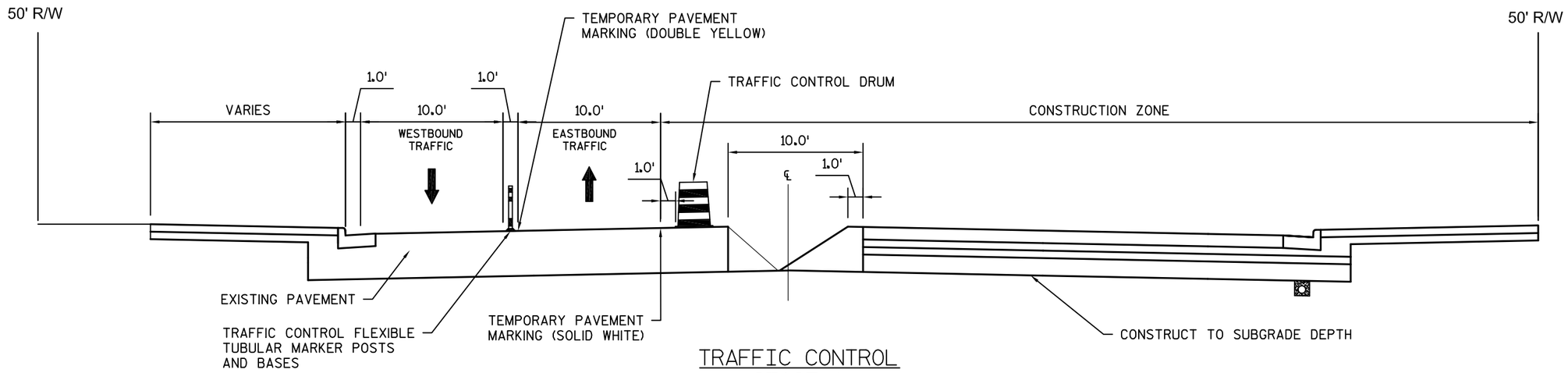
IF WORK CAN NOT BE PRACTICALLY OR SAFELY COMPLETED WITHOUT A LIMITED SHORT TERM DISRUPTION TO PEDESTRIAN TRAFFIC, THEN THE OWNER SHALL BE NOTIFIED 72 HOURS IN ADVANCE, AND THE TIME OF RESTRICTED PEDESTRIAN ACCESS MUST BE MINIMIZED. ALL OTHER ENTRANCES WHICH ARE NOT SPECIFICALLY DESIGNATED FOR HAVING CONTINUOUS ACCESS MAY REMAIN INACCESSIBLE AS NEEDED TO FACILITATE THE WORK.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

REFER TO SPECIAL PROVISIONS FOR TEMPORARY PEDESTRIAN ACCESS ITEM DESCRIPTIONS.

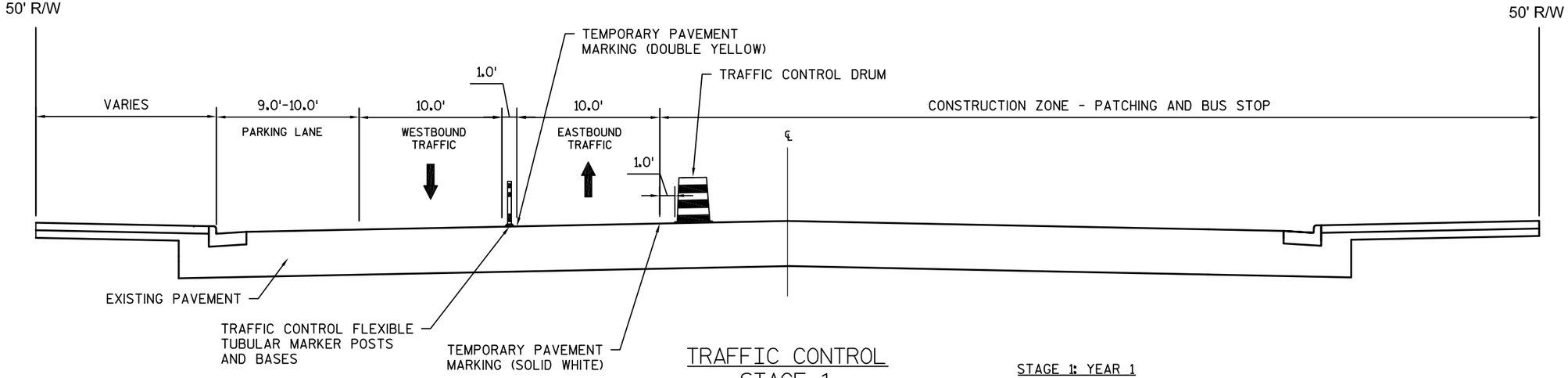
PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL DETAIL - PEDESTRIAN ACCESS	SHEET	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\021001_CD_TC.DWG
1505_021001_CD - 02
PLOT DATE : 7/8/2016 3:36 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL
STAGE 1

A. BANKS AVE TO TOWER AVE
STA 138+07 TO 141+37
B. OGDEN AVE TO JOHN AVE
STA 146+15 TO 147+90
C. BIRCH AVE TO HILL AVE
STA 184+10 TO STA 210+18



TRAFFIC CONTROL
STAGE 1

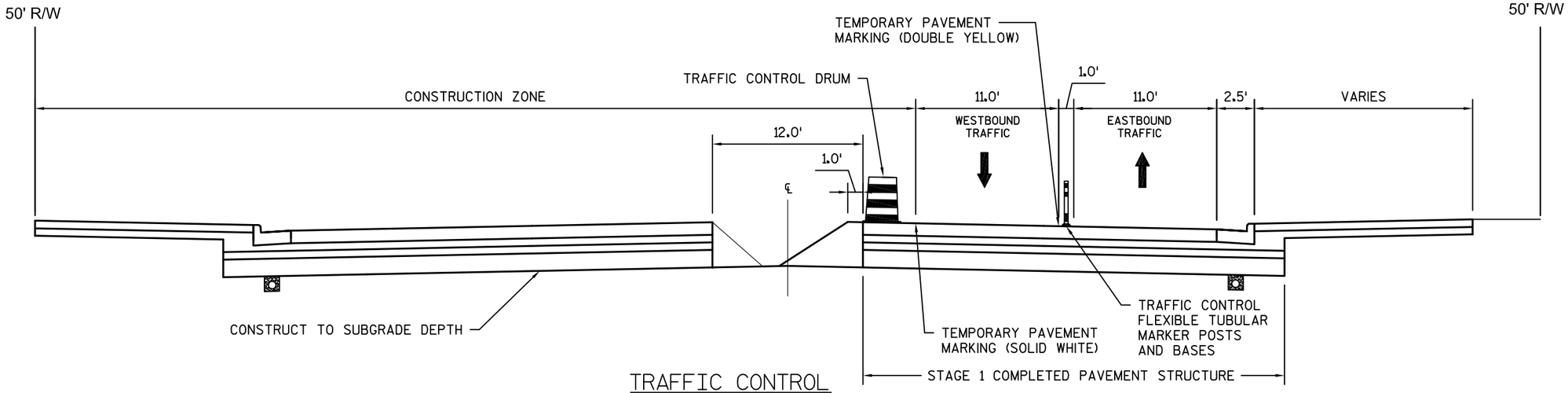
D. TOWER AVE TO OGDEN AVE
STA 141+37 TO STA 146+15

STAGE 1: YEAR 1

BOOKENDING THE PROJECT, STAGE 1 TRAFFIC USES THE NORTHERN HALF OF BELKNAP STREET WITH ONE LANE IN EACH DIRECTION BEGINNING AT BANKS AVE AND ENDING AT JOHN AVENUE. EASTBOUND TRAFFIC MERGES INTO THE LEFT TURN LANE AT BANKS AVE, WHILE THE RIGHT TURN LANE ONTO BANKS AVE REMAINS OPEN. EASTBOUND TRAFFIC SHIFTS BACK TO THE SOUTHERN HALF EAST OF JOHN AVENUE. WESTBOUND TRAFFIC MERGES TO THE FAR RIGHT LANE WEST OF HUGHITT AVE, AND IT REMAINS THERE TO BANKS AVE.

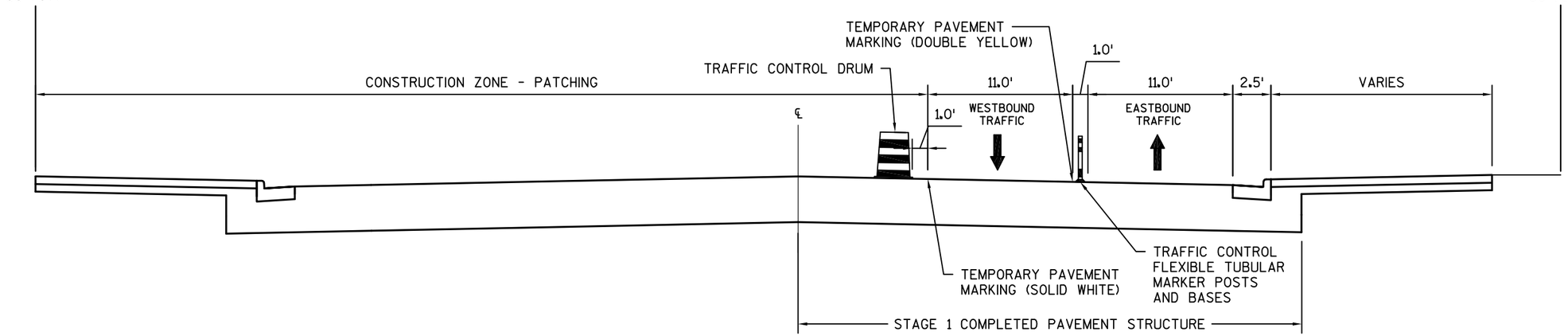
THE EASTERN BOOKEND HAS EASTBOUND TRAFFIC MERGING TO ONE LANE AFTER CLOUGH AVE, AND THEN SHIFTING TO THE NORTHERN HALF OF BELKNAP STREET BETWEEN FISHER AVE AND CATLIN AVENUE. TRAFFIC IS ONE LANE IN EACH DIRECTION FROM CATLIN AVE TO E. 7TH ST, WHERE EASTBOUND TRAFFIC SHIFTS BACK TO THE SOUTHERN HALF. WESTBOUND TRAFFIC MERGES TO THE FAR RIGHT LANE EAST OF 7TH ST, AND IT REMAINS THERE TO FISHER AVENUE.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL STAGE 1 CROSS SECTION VIEW	SHEET 431	E



TRAFFIC CONTROL
STAGE 2

A. BANKS AVE TO TOWER AVE
STA 138+07 TO STA 141+37
B. OGDEN AVE TO JOHN AVE
STA 145+88 TO 147+90
C. BIRCH AVE TO HILL AVE
STA 184+10 TO STA 210+18



TRAFFIC CONTROL
STAGE 2

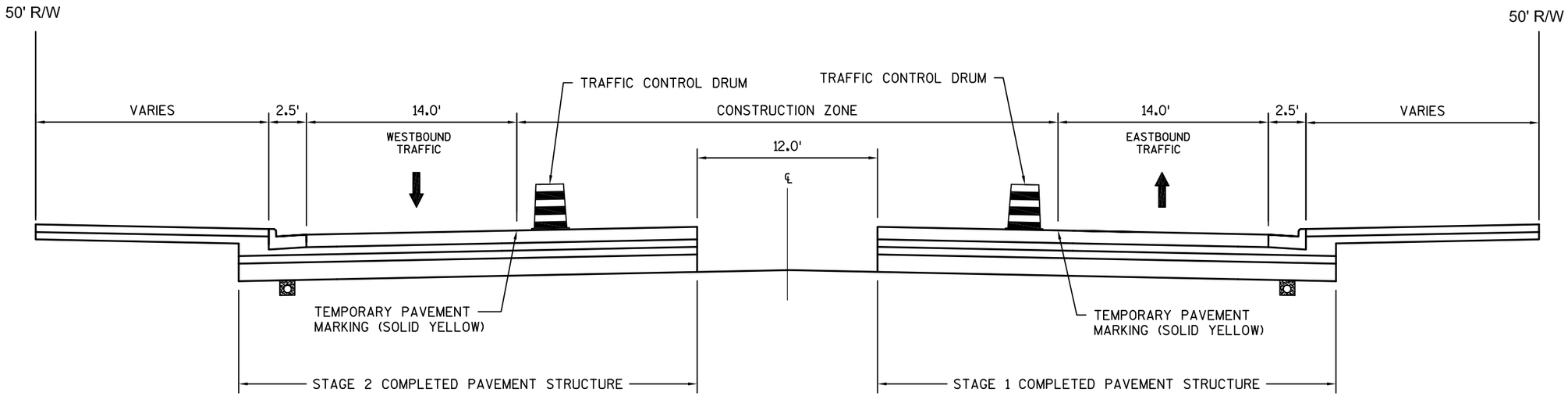
D. TOWER AVE TO OGDEN AVE
STA 141+37 TO STA 145+88

STAGE 2: YEAR 1

BOOKENDING THE PROJECT, STAGE 2 TRAFFIC USES THE SOUTHERN HALF OF BELKNAP STREET WITH ONE LANE IN EACH DIRECTION BEGINNING AT BANKS AVE AND ENDING AT JOHN AVENUE. EASTBOUND TRAFFIC MERGES INTO THE RIGHT LANE AT BANKS AVE, WHILE THE RIGHT & LEFT TURN LANES ONTO BANKS AVE REMAIN OPEN. WESTBOUND TRAFFIC MERGES INTO THE LEFT LANE WEST OF HAMMOND AVE, THEN SHIFTS TO LEFT OF CENTERLINE AFTER HUGHITT AVE, AND SHIFTS TO THE SOUTHERN HALF JUST WEST OF JOHN AVENUE. WESTBOUND TRAFFIC SHIFTS BACK TO THE NORTHERN HALF AT THE INTERSECTION OF BANKS AVE AND BELKNAP STREET.

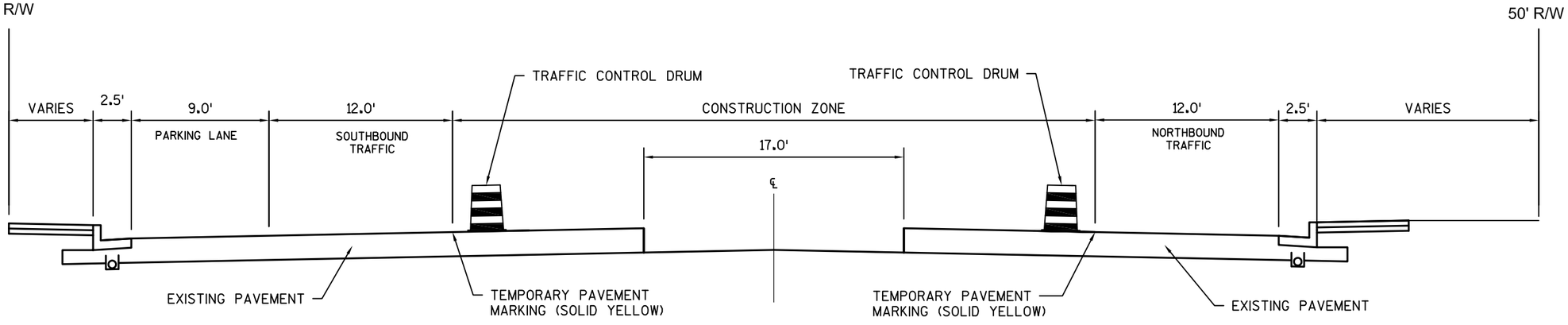
THE EASTERN BOOKEND HAS EASTBOUND TRAFFIC MERGING INTO THE FAR RIGHT LANE EAST OF FISHER AVE, AND IT REMAINS THERE TO E. 7TH STREET. TRAFFIC IS ONE LANE IN EACH DIRECTION ON THE SOUTHERN HALF FROM CATLIN AVE TO E. 7TH STREET. WESTBOUND TRAFFIC MERGES INTO THE LEFT LANE AFTER E. 5TH ST, AND IT SHIFTS TO THE SOUTHERN HALF EAST OF E. 7TH STREET. WESTBOUND TRAFFIC SHIFTS BACK TO THE NORTHERN HALF BETWEEN CATLIN AVENUE AND BIRCH AVENUE.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL STAGE 2 CROSS SECTION VIEW	SHEET 432	E



TRAFFIC CONTROL
STAGE 3

A. BANKS AVE TO OGDEN AVE
STA 138+07 TO STA 146+87
B. BIRCH AVE TO HILL AVE
STA 184+60 TO STA 210+18



TRAFFIC CONTROL
STAGE 3 - TOWER AVE

A. N. 16TH ST TO BELKNAP ST
STA 678+94 TO STA 688+04

STAGE 3: YEAR 1

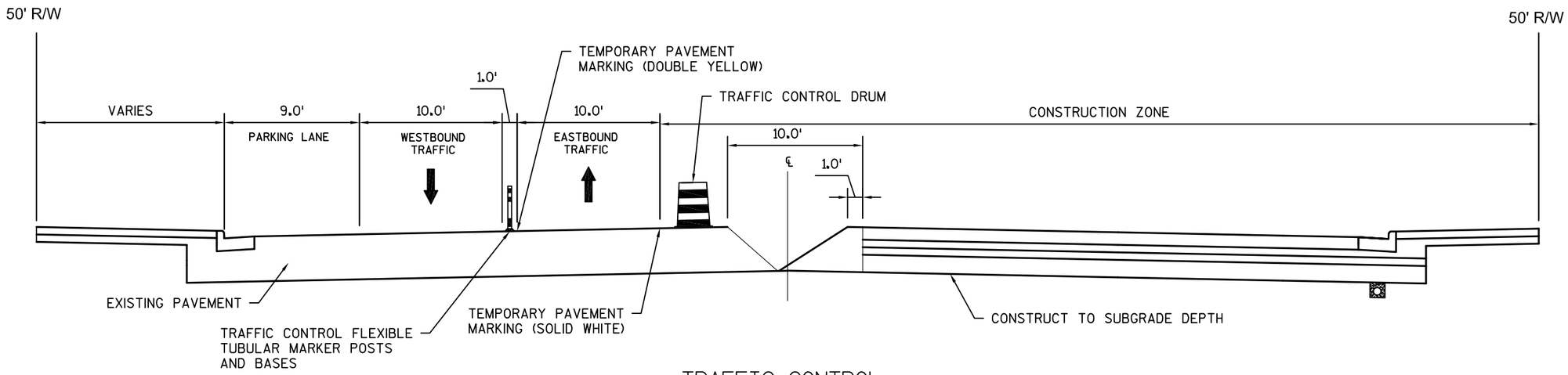
STAGE 3 TRAFFIC SHIFTS TO THE OUTSIDE LANES BETWEEN BANKS AVE AND JOHN AVE ON WESTERN SEGMENT. EASTBOUND TRAFFIC MERGES INTO THE RIGHT LANE AT BANKS AVE, WHILE THE RIGHT & LEFT TURN LANES ONTO BANKS AVE REMAIN OPEN. WESTBOUND TRAFFIC MERGES INTO THE RIGHT LANE WEST OF JOHN AVE, AND IT REMAINS THERE TO BANKS AVE.

EASTERN SEGMENT STAGE 3 TRAFFIC SHIFTS TO THE OUTSIDE LANES BETWEEN CATLIN AVE AND E. 7TH STREET. EASTBOUND TRAFFIC MERGES INTO THE RIGHT LANE EAST OF CATLIN AVE, AND IT REMAINS THERE TO E. 7TH STREET. WESTBOUND TRAFFIC MERGES INTO THE RIGHT LANE AT E. 7TH STREET.

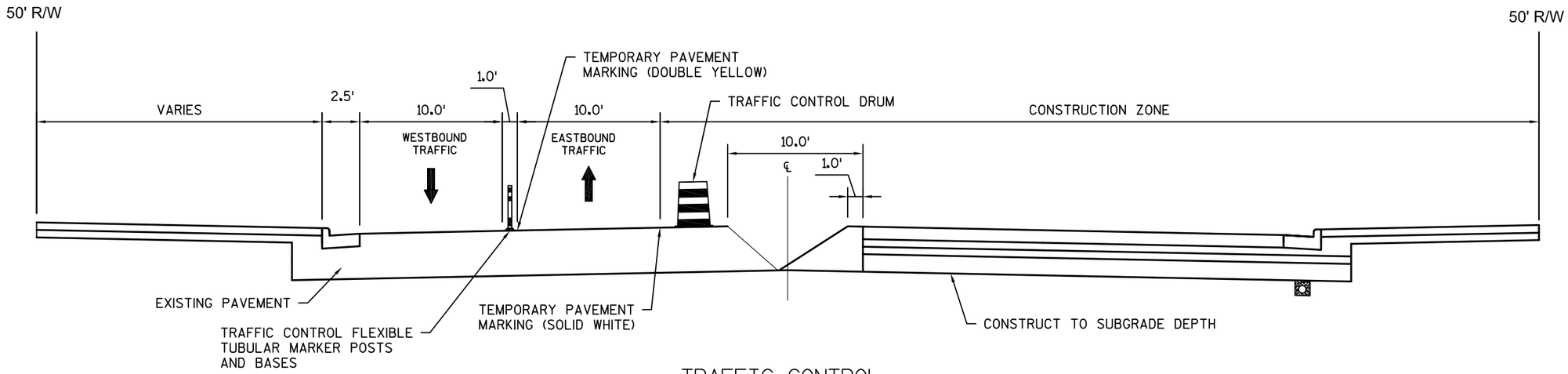
ALSO DURING STAGE 3, NORTHBOUND AND SOUTHBOUND TRAFFIC ON TOWER AVE SHIFTS TO THE OUTSIDE LANES FROM JUST SOUTH OF BELKNAP STREET TO N. 16TH STREET.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	TRAFFIC CONTROL STAGE 3 CROSS SECTION VIEW	SHEET 433	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025501_TC_TYPICALS.DWG PLOT DATE : 7/29/2016 10:43 AM PLOT BY : USER PLOT NAME : PLOT SCALE : 0.127172
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL
STAGE 4
A. CUMMING AVE TO FISHER AVE
STA 161+25 TO STA 176+15

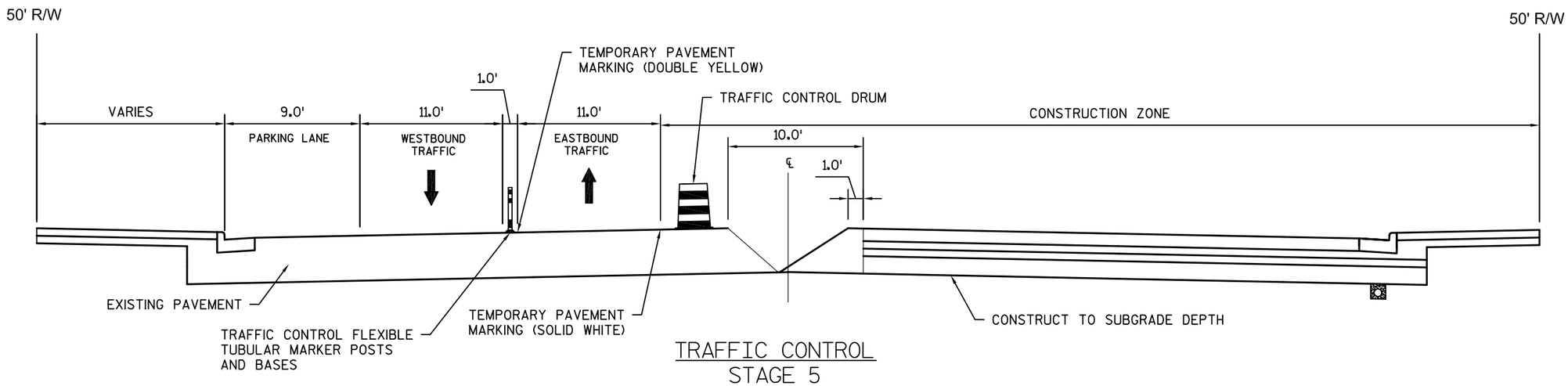


TRAFFIC CONTROL
STAGE 4
B. FISHER AVE TO BIRCH AVE
STA 176+15 TO STA 184+60

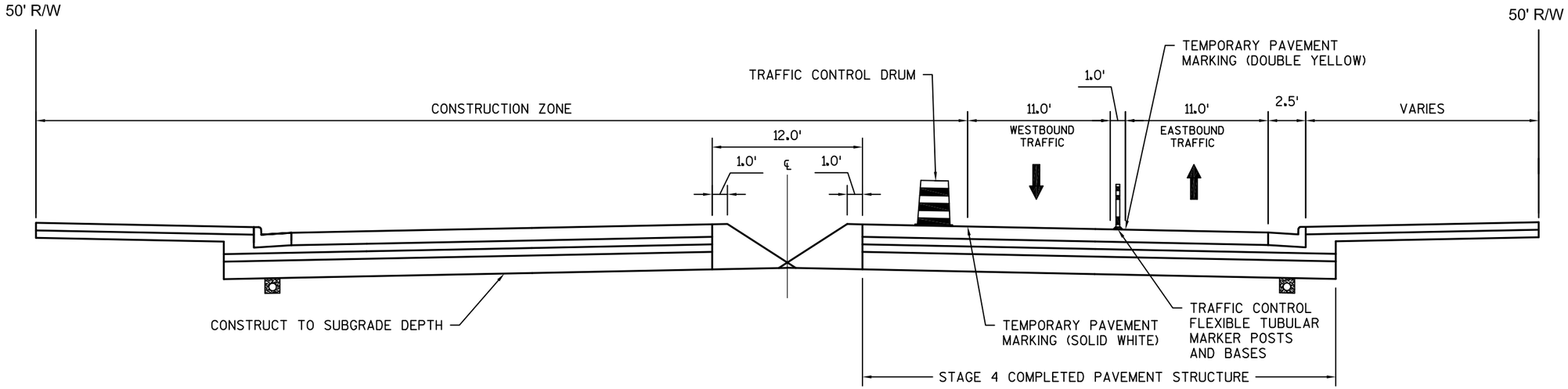
STAGE 4: YEAR 2

STAGE 4 TRAFFIC USES THE NORTHERN HALF OF BELKNAP STREET WITH ONE LANE IN EACH DIRECTION BEGINNING AT CUMMING AVE AND ENDING WEST OF BIRCH AVENUE. EASTBOUND TRAFFIC MERGES INTO THE LEFT LANE EAST OF HUGHITT AVENUE. EASTBOUND TRAFFIC SHIFTS LEFT TO CENTERLINE BETWEEN HAMMOND AVE & CUMMING AVE, AND SHIFTS BACK TO THE SOUTHERN HALF EAST OF CYPRESS AVENUE. WESTBOUND TRAFFIC MERGES TO THE RIGHT LANE WEST OF POPLAR AVE, AND IT REMAINS THERE TO JUST WEST OF CUMMING AVENUE.

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 4 TRAFFIC CONTROL CROSS SECTION VIEW	SHEET 434	E



TRAFFIC CONTROL
STAGE 5
A. JOHN AVE TO CUMMING AVE
STA 147+60 TO STA 161+25

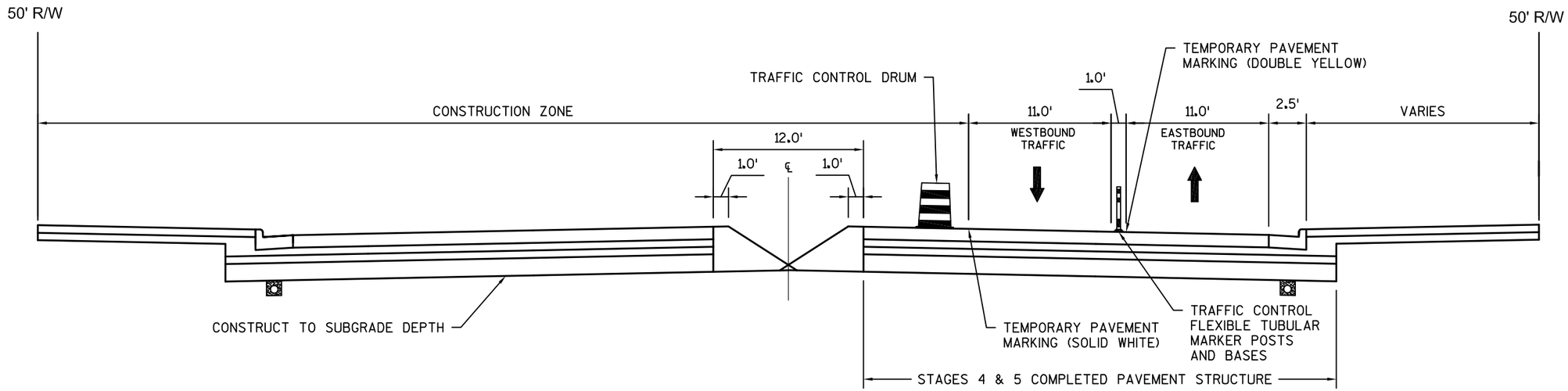


TRAFFIC CONTROL
STAGE 5
B. GRAND AVE TO BIRCH AVE
STA 168+25 TO STA 184+60

STAGE 5: YEAR 2

STAGE 5 TRAFFIC USES THE NORTHERN HALF OF BELKNAP STREET WITH ONE LANE IN EACH DIRECTION BEGINNING JUST WEST OF OGDEN AVE AND ENDING AT CUMMING AVENUE. EASTBOUND TRAFFIC MERGES INTO THE LEFT LANE WEST OF BANKS AVE, AND SHIFTS TO LEFT OF CENTERLINE AT OGDEN AVENUE. TRAFFIC REMAINS IN NORTHERN HALF UNTIL BAXTER AVE, AND THEN SHIFTS BACK TO FAR SOUTHERN LANE UNTIL REACHING CYPRESS AVENUE. WESTBOUND TRAFFIC MOVES FROM THE SOUTHERN HALF AT GRAND AVE, AND SHIFTS TO THE NORTHERN HALF JUST EAST OF BAXTER AVENUE. WESTBOUND TRAFFIC REMAINS IN THE FAR NORTHERN LANE TO WEST OF OGDEN AVENUE.

STAGE 5 TRAFFIC USES THE SOUTHERN HALF OF BELKNAP STREET WITH ONE LANE IN EACH DIRECTION BEGINNING JUST EAST OF CUMMING AVE AND ENDING AT CYPRESS AVENUE. EASTBOUND TRAFFIC SHIFTS BACK TO FAR SOUTHERN LANE EAST OF BAXTER AVE, AND IT REMAINS THERE TO CYPRESS AVENUE. WESTBOUND TRAFFIC MERGES INTO THE LEFT LANE EAST OF POPLAR AVE, AND SHIFTS TO THE SOUTHERN HALF JUST WEST OF CYPRESS AVENUE REMAINING THERE UNTIL WEST OF GRAND AVENUE.

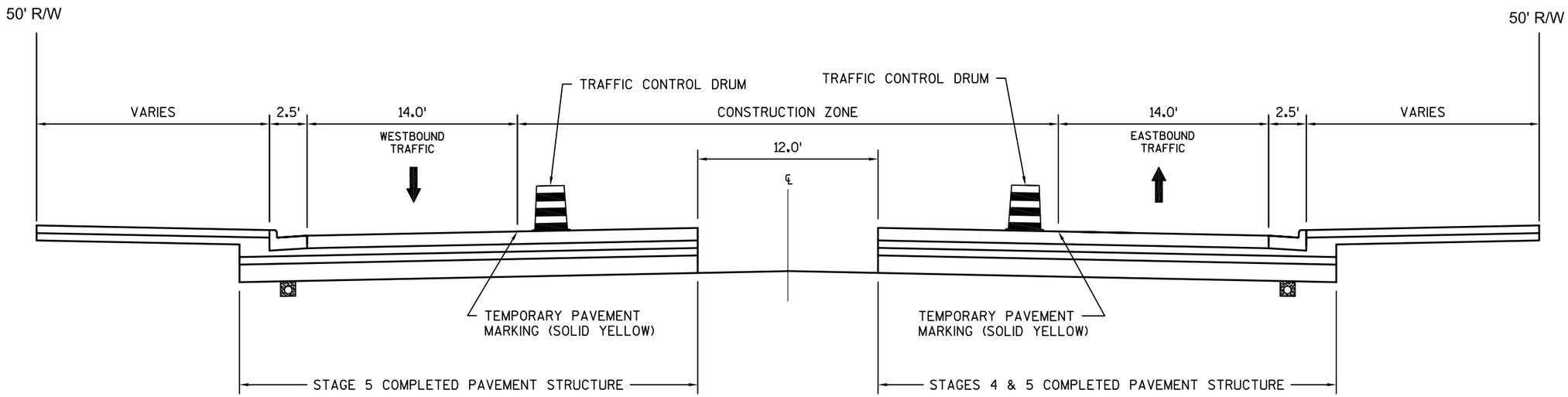


TRAFFIC CONTROL
STAGE 6

A. JOHN AVE TO GRAND AVE
STA 147+60 TO STA 168+25

STAGE 6: YEAR 2

STAGE 6 TRAFFIC USES THE SOUTHERN HALF OF BELKNAP STREET WITH ONE LANE IN EACH DIRECTION BEGINNING JUST WEST OF OGDEN AVE AND ENDING AT WEEKS AVENUE. EASTBOUND TRAFFIC MERGES INTO THE RIGHT LANE EAST OF TOWER AVE, AND IT REMAINS THERE TO WEEKS AVENUE. WESTBOUND TRAFFIC MERGES INTO THE LEFT LANE BETWEEN WEEKS AVE & FISHER AVE, AND SHIFTS TO THE SOUTHERN HALF WEST OF WEEKS AVENUE. WESTBOUND TRAFFIC SHIFTS BACK TO THE NORTHERN HALF WEST OF OGDEN AVENUE.



TRAFFIC CONTROL
STAGE 7

A. JOHN AVE TO BIRCH AVE
STA 146+87 TO STA 184+60

STAGE 7: YEAR 2

STAGE 7 TRAFFIC SHIFTS TO THE OUTSIDE LANES BETWEEN OGDEN AVENUE AND BIRCH AVENUE. EASTBOUND TRAFFIC MERGES INTO THE RIGHT LANE EAST OF TOWER AVE, AND IT REMAINS THERE TO BIRCH AVENUE. WESTBOUND TRAFFIC MERGES INTO THE RIGHT LANE WEST OF CYPRESS AVE, AND IT REMAINS THERE TO OGDEN AVENUE.

2

ADVANCE SIGNING INSET

N

0 100'

SCALE, FEET

USH 2 / Belknap Street

ROAD WORK AHEAD
W20-1-A
BAND SIGN TO LIGHT POLE

MAX. 10' WIDTH
W12-52
48"X48"
BAND SIGN TO LIGHT POLE

RIGHT LANE CLOSED AHEAD
W20-5-A
BAND SIGN TO LIGHT POLE

W04-2R
BAND SIGN TO LIGHT POLE

USH 2 / Belknap Street

180' MERGING TAPER
TYPICAL LENGTH FOR 30 MPH

250'

W01-6
48"X24"

TEMP PM REMOVABLE TAPE
4-INCH WHITE

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

W01-3L

END ROAD WORK
G20-2A
48"X24"

20 M.P.H.
W013-1
36"X36"

BANKS AVE

TEMP PM REMOVABLE TAPE
4-INCH YELLOW 4-FT SKIPS

TEMPORARY PM PAINT 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

TEMP PM REMOVABLE TAPE
4-INCH WHITE

25'

TEMP PM REMOVABLE TAPE
4-INCH WHITE

134+00 135+00 136+00 137+00 138+00 139+00

W01-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

RIGHT LANE MUST TURN RIGHT
R3-7-R
30"X30"

JOIN PAVEMENT MARKING LINES, COVER R3-7R & R3-20R SIGNS, AND ADD DRUMS/BARRICADES UNTIL BANKS AVE SOUTHWEST QUADRANT WORK IS COMPLETE

BEGIN RIGHT TURN LANE
R3-20-RR
24"X36"

EXISTING PAVEMENT MARKINGS FOR TURN LANES

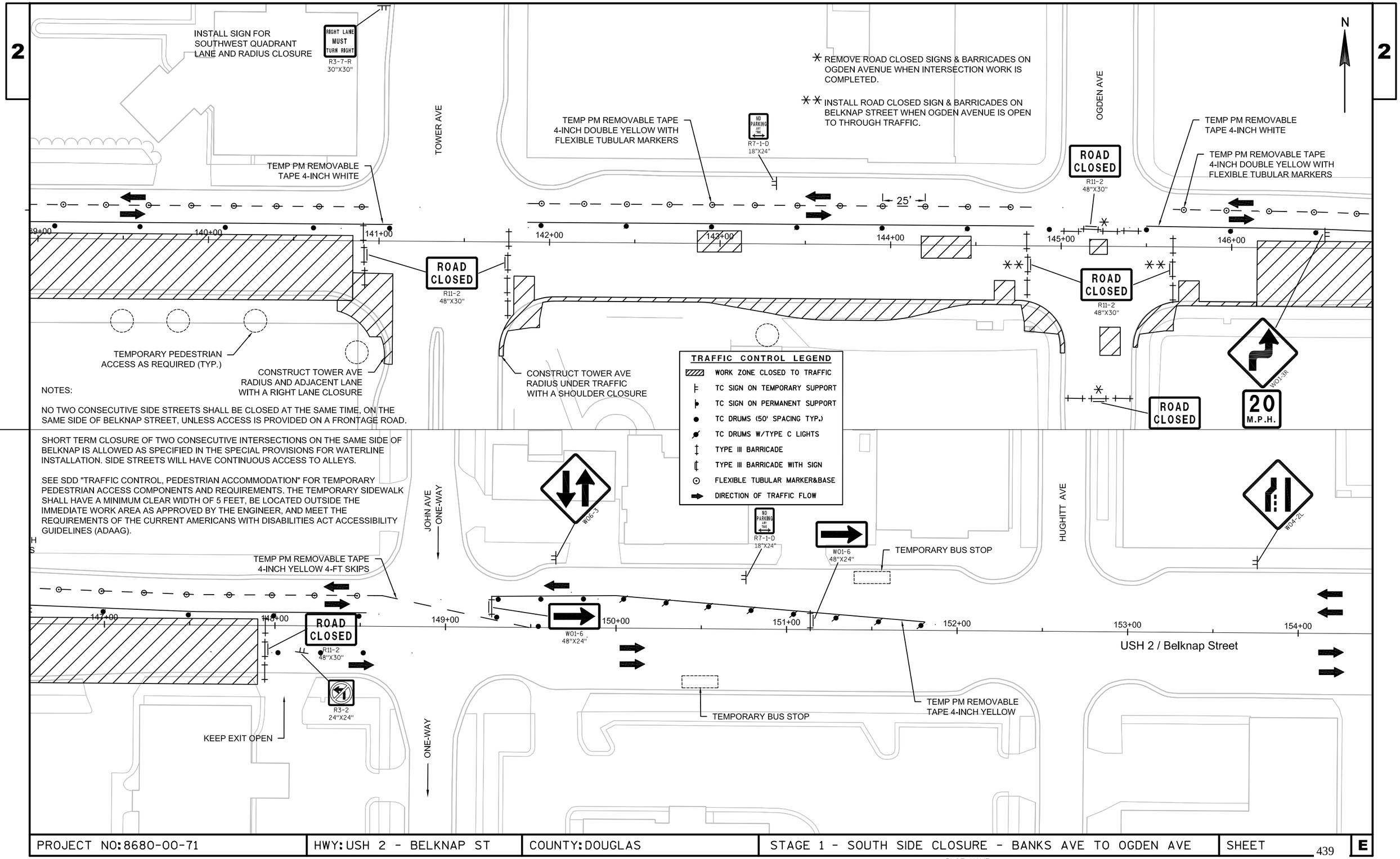
W06-5

CONSTRUCT BANKS AVE ISLAND, TURN LANE, AND RADIUS WITH A USH 2 EB 'TURN LANE' CLOSURE. PULL DRUMS ALONG BANKS AVE WHEN WORK IS COMPLETE.

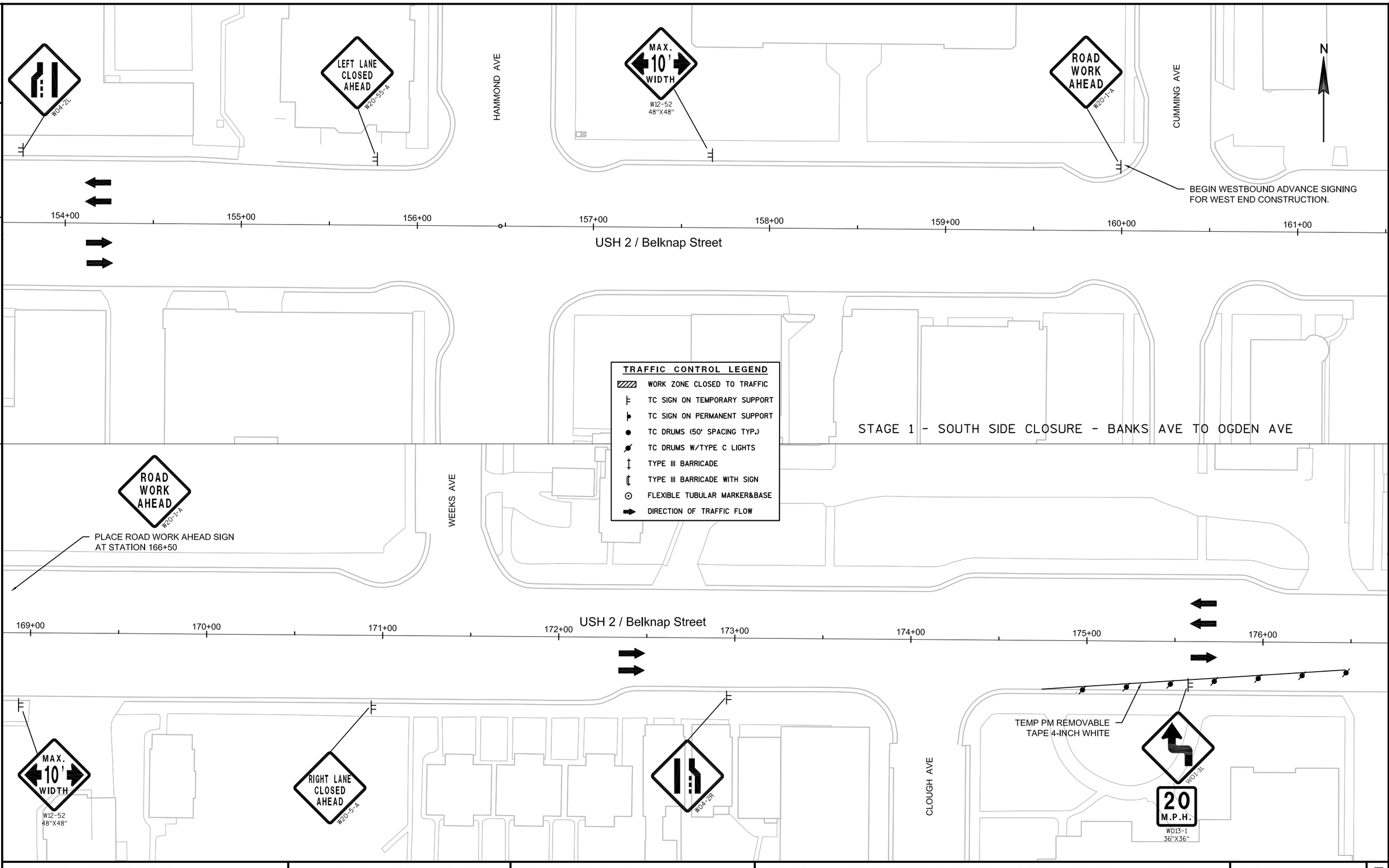
BANKS AVE

CONSTRUCT BANKS AVE RADIUS AND ADJACENT LANE WITH A RIGHT LANE CLOSURE ON NORTHBOUND BANKS AVE

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BANKS AVE TO OGDEN AVE	SHEET 438	E



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BANKS AVE TO OGDEN AVE	SHEET 439	E



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 440	E

2

2

N

FISHER AVE

CATLIN AVE

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

BEGIN TEMPORARY PM PAINT 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

BEGIN TEMPORARY PM PAINT 4-INCH WHITE

USH 2 / Belknap Street

177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00

TEMP PM REMOVABLE TAPE 4-INCH WHITE

LANE CLOSED
R11-2-L
48"X30"

KEEP ENTRANCE OPEN UNTIL NEW ENTRANCE IS CONSTRUCTED

W01-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

W06-3

KEEP DRIVE THRU EXIT OPEN

STOP
R1-1
30"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

KEEP ONE ENTRANCE OPEN TO PILGRIM LUTHERAN, UWS, AND BURGER KING AT ALL TIMES

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

BIRCH AVE

CYPRESS AVE

POPLAR AVE

MORTORELLI DR

W01-7
48"X24"

TEMPORARY PM PAINT 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

W01-6
48"X24"

TEMPORARY PM PAINT 4-INCH WHITE

USH 2 / Belknap Street

185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00

ROAD CLOSED
R11-2
48"X30"

STOP
R1-1
30"X30"

ROAD CLOSED
R11-2
48"X30"

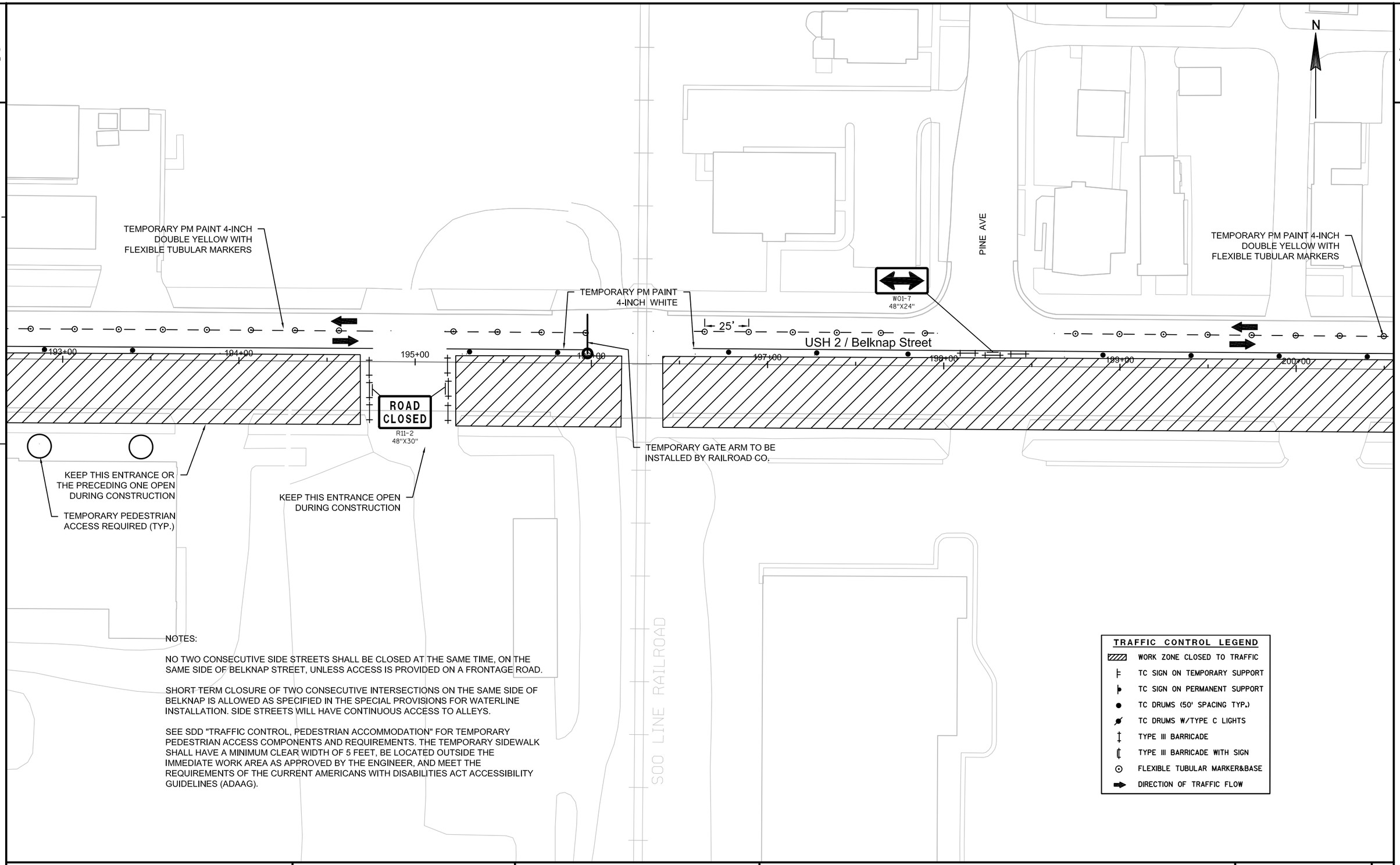
ROAD CLOSED
R11-2
48"X30"

CONSTRUCT MORTORELLI DRIVE HALF AT A TIME. ONE ENTRANCE TO GAS STATION MUST REMAIN OPEN DURING CONSTRUCTION.

KEEP THIS ENTRANCE OR THE NEXT ONE OPEN DURING CONSTRUCTION

TEMPORARY PEDESTRIAN ACCESS REQUIRED (TYP.)

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 441	E



NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

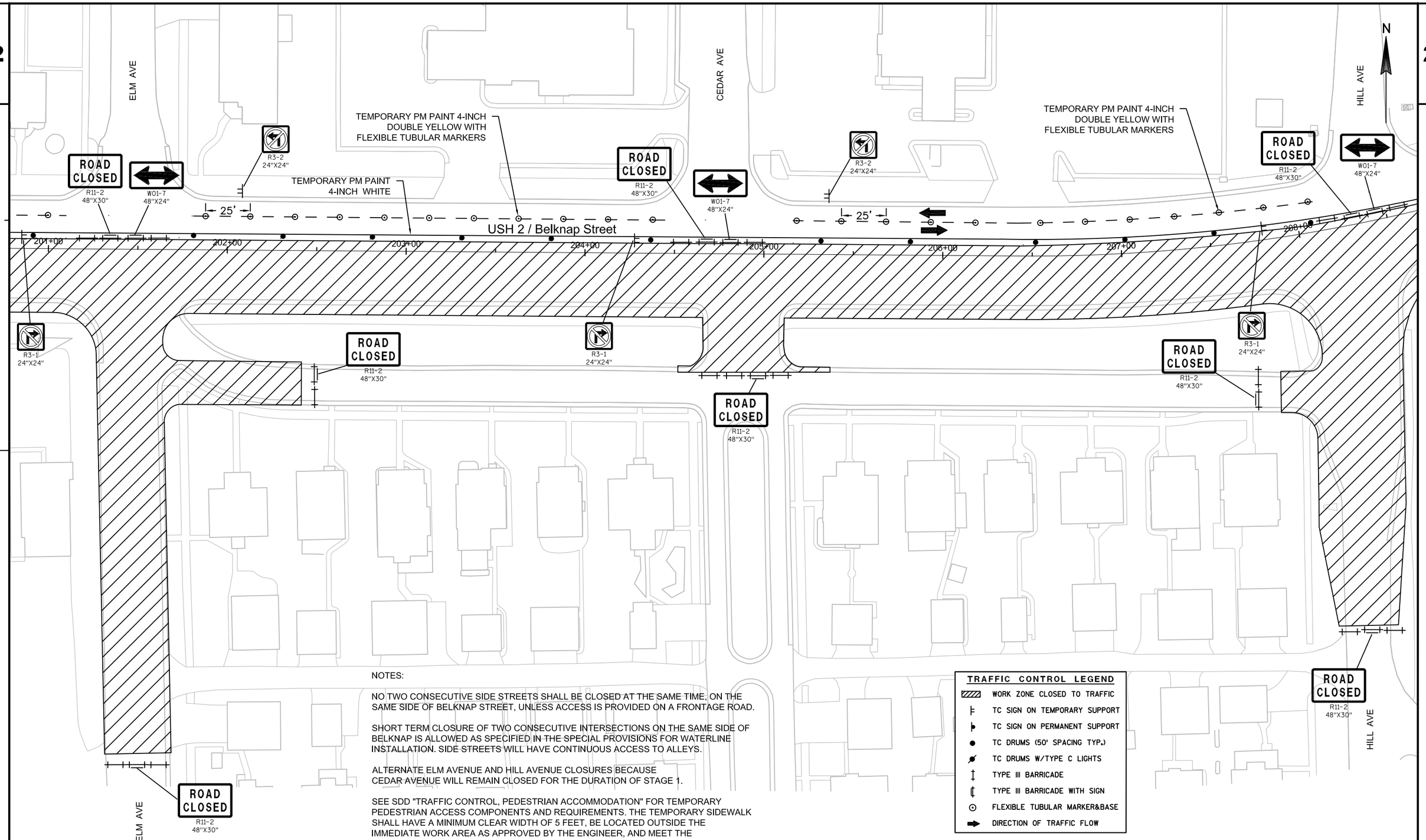
SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 442	E



NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

ALTERNATE ELM AVENUE AND HILL AVENUE CLOSURES BECAUSE CEDAR AVENUE WILL REMAIN CLOSED FOR THE DURATION OF STAGE 1.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

	WORK ZONE CLOSED TO TRAFFIC
	TC SIGN ON TEMPORARY SUPPORT
	TC SIGN ON PERMANENT SUPPORT
	TC DRUMS (50' SPACING TYP.)
	TC DRUMS W/TYPE C LIGHTS
	TYPE III BARRICADE
	TYPE III BARRICADE WITH SIGN
	FLEXIBLE TUBULAR MARKER&BASE
	DIRECTION OF TRAFFIC FLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 443	E

2

2

TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

R3-2
24"X24"

W06-3

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

210+00

211+00

212+00

W01-3R

20 M.P.H.
W013-1
36"X36"

ROAD CLOSED
R11-2
48"X30"

E. 7TH ST

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

W01-6
48"X24"

USH 2 / Belknap Street

W04-2L

SIGN

N

END ROAD WORK
G20-2A
48"X24"

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

LEFT LANE CLOSED AHEAD
W20-5-A

E. 5TH ST

MAX. 10' WIDTH
W12-52
48"X48"

2ND AVE E.

USH 2 / Belknap Street

N

ROAD WORK AHEAD
W20-1-A

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 1 - SOUTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 444	E

2

ADVANCE SIGNING INSET

N

0 100'

SCALE, FEET

USH 2 / Belknap Street

W01-6
48"X24"

250'

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

ROAD WORK AHEAD
W20-1-A

BAND SIGN TO LIGHT POLE

MAX. 10' WIDTH
W12-52
48"X48"

BAND SIGN TO LIGHT POLE

LEFT LANE CLOSED AHEAD
W20-55-A

BAND SIGN TO LIGHT POLE

W04-2L

BAND SIGN TO LIGHT POLE

N

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

✳ REMOVE DRUMS, ROAD CLOSED SIGNS, AND BARRICADES ON BANKS AVENUE WHEN INTERSECTION WORK IS COMPLETED.

ROAD CLOSED
R11-2
48"X30"

END ROAD WORK
G20-2A
48"X24"

BANKS AVE

LEFT LANE MUST TURN LEFT
R3-7-L
30"X30"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

TEMP PM REMOVABLE TAPE
4-INCH YELLOW 4-FT SKIPS

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

134+00 135+00 136+00 137+00 138+00

25'

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

ROAD CLOSED
R11-2
48"X30"

TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

EXISTING PAVEMENT MARKINGS
FOR TURN LANES

W06-3

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BANKS AVE TO OGDEN AVE	SHEET 445	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

✳ REMOVE ROAD CLOSED SIGNS & BARRICADES ON OGDEN AVENUE WHEN INTERSECTION WORK IS COMPLETED.

✳✳ INSTALL ROAD CLOSED SIGNS & BARRICADES ON BELKNAP STREET WHEN OGDEN AVENUE IS OPEN TO THROUGH TRAFFIC.

2

2

N

CONSTRUCT TOWER AVE RADIUS ONE AT A TIME UNDER TRAFFIC WITH A SHOULDER CLOSURE

TOWER AVE

TEMPORARY PEDESTRIAN ACCESS REQUIRED (TYP.)

OGDEN AVE

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

TEMPORARY BUS STOP

139+00 140+00 141+00 142+00 143+00 144+00 145+00 146+00

25'

TEMP PM REMOVABLE TAPE 4-INCH WHITE

W01-3R

20 M.P.H.
W013-1
36"X36"

NO PARKING ANY TIME
R7-1-D
18"X24"

TEMPORARY BUS STOP

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

JOHN AVE ONE-WAY

HUGHITT AVE

W06-3

TEMP PM REMOVABLE TAPE 4-INCH WHITE

ROAD CLOSED
R11-2
48"X30"

STOP
R1-1
30"X30"

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

TEMPORARY BUS STOP

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

STOP
R1-1
30"X30"

W01-4L

TEMP PM R
TAPE 4-INC

147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

R3-2
24"X24"

KEEP EXIT OPEN

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY BUS STOP

ONE-WAY

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BANKS AVE TO OGDEN AVE	SHEET 446	E

2

W01-4L

W01-6
48"X24"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

HAMMOND AVE

W04-2R

RIGHT LANE
CLOSED
AHEAD
W20-5-A

CUMMING AVE

N

2

154+00 155+00 156+00 157+00 158+00 159+00 160+00 161+00

USH 2 / Belknap Street

MAX.
10'
WIDTH
W12-52
48"X48"

BAXTER AVE

ROAD
WORK
AHEAD
W20-1-A

BEGIN WESTBOUND ADVANCE SIGNING
FOR WEST END CONSTRUCTION.

GRAND AVE

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00

BEGIN EASTBOUND ADVANCE SIGNING
FOR EAST END CONSTRUCTION.

LAMBORN AVE

ROAD
WORK
AHEAD
W20-1-A

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BANKS AVE TO OGDEN AVE	SHEET 447	E

WEEKS AVE

171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00

USH 2 / Belknap Street

MAX. 10' WIDTH
W12-52
48"X48"

LEFT LANE CLOSED AHEAD
W20-55-A

CLOUGH AVE

W04-2L

N

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

FISHER AVE

CATLIN AVE

CATLIN AVE

TEMPORARY PEDESTRIAN ACCESS REQUIRED (TYP.)

ROAD CLOSED
R11-2
48"X30"

TEMP PM REMOVABLE TAPE 4-INCH WHITE

W01-6
48"X24"

179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00

USH 2 / Belknap Street

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

LANE CLOSED
R11-2-L
48"X30"

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

W06-3

R3-2
24"X24"

ROAD CLOSED
R11-2
48"X30"

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

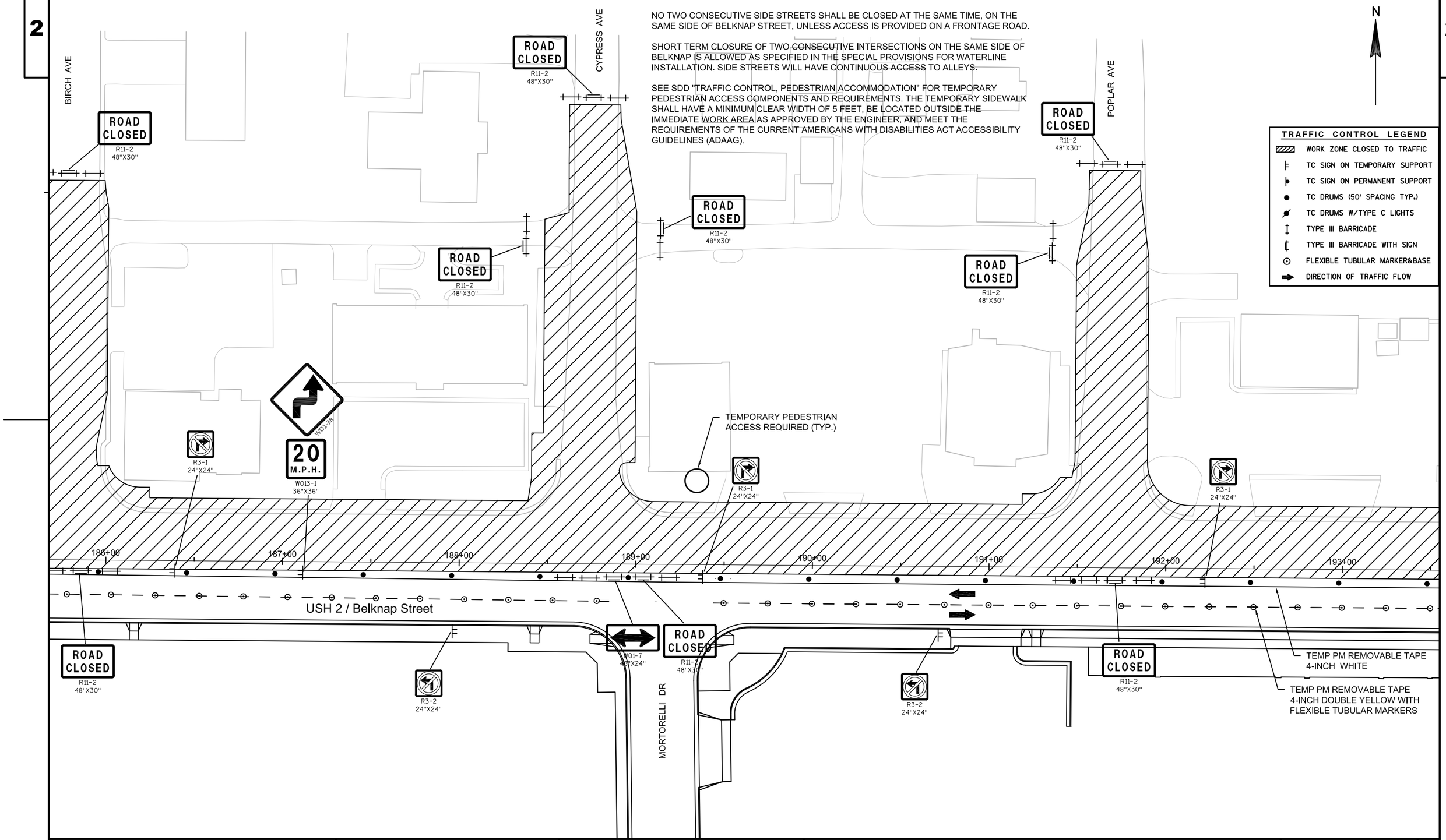
PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 448	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).



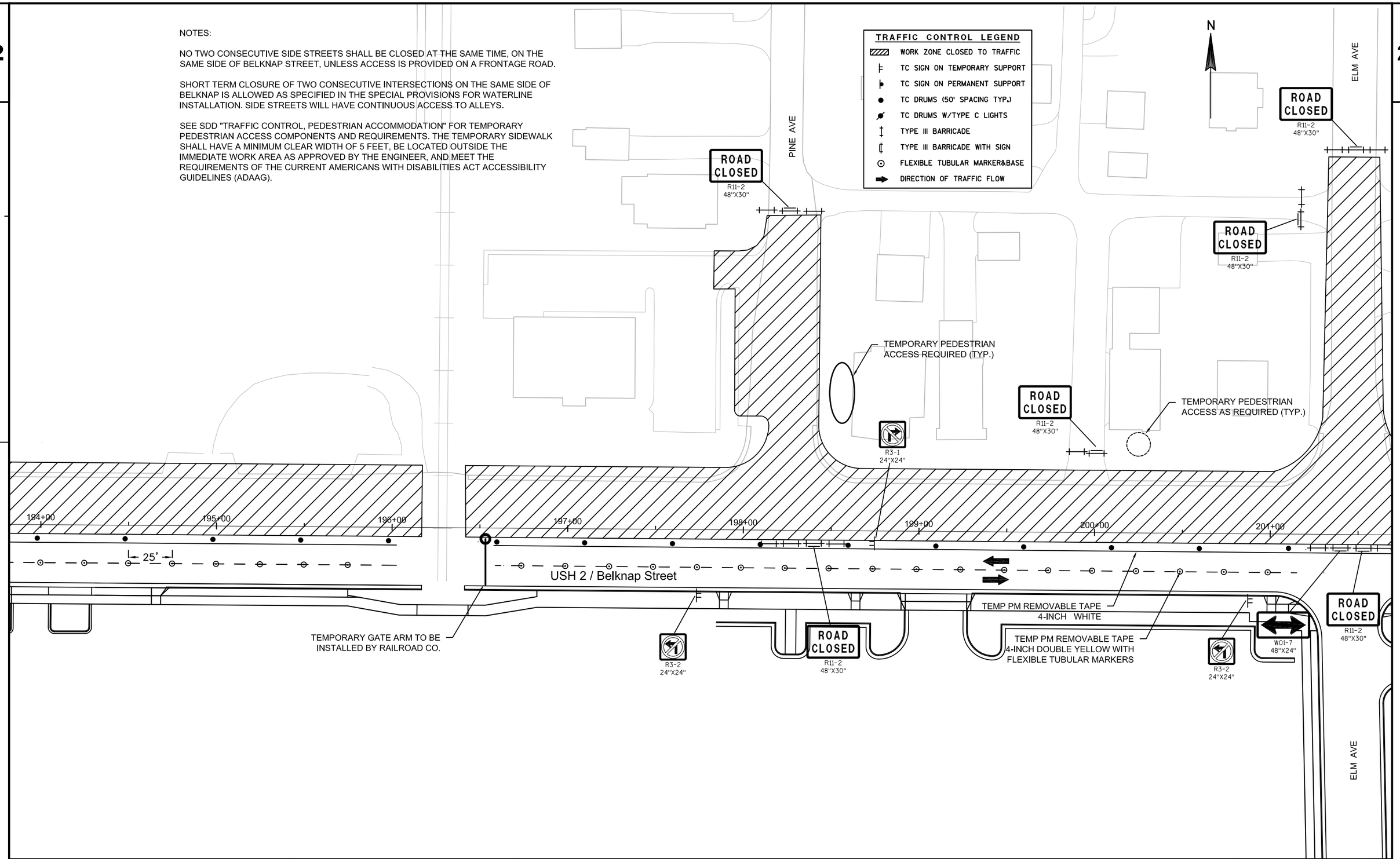
PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 449	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

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PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 450 E

2

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

N

CEDAR AVE

HILL AVE

ROAD CLOSED
R11-2
48"X30"

TEMPORARY PEDESTRIAN ACCESS AS REQUIRED (TYP.)

R3-1
24"X24"

R3-2
24"X24"

202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00

25'

USH 2 / Belknap Street

TEMP PM REMOVABLE TAPE
4-INCH WHITE

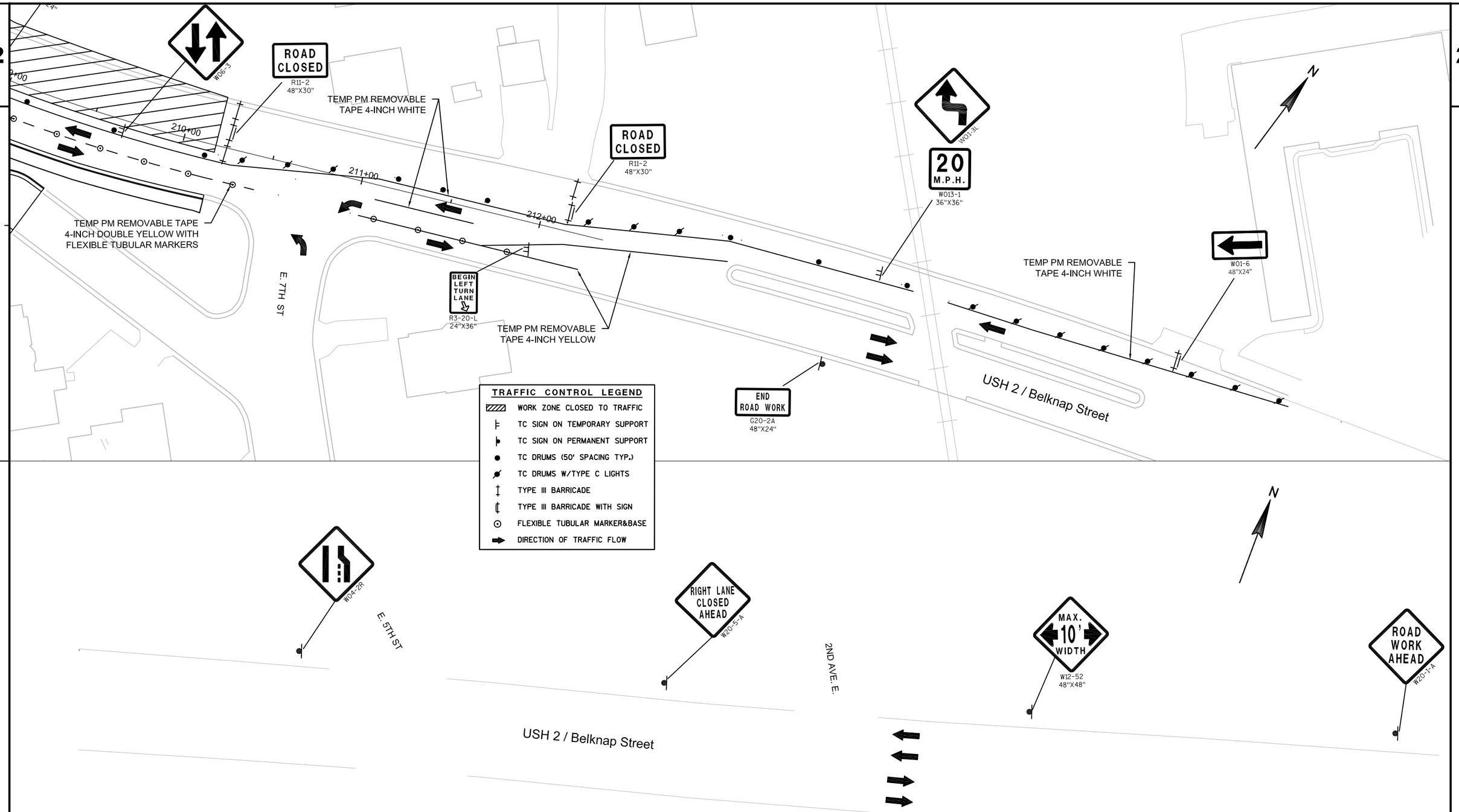
TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

A HAYES CT

ONE-WAY

W01-7
48"X24"

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 451 E



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 2 - NORTH SIDE CLOSURE - BIRCH AVE TO HILL AVE	SHEET 452	E

2

N

USH 2 / Belknap Street

ROAD WORK AHEAD
W20-1-A
BAND SIGN TO LIGHT POLE

MAX. 10' WIDTH
W12-52
48"X48"
BAND SIGN TO LIGHT POLE

LEFT LANE CLOSED AHEAD
W20-55-A
BAND SIGN TO LIGHT POLE

W04-2L
BAND SIGN TO LIGHT POLE

W01-6
48"X24"

250'

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

N

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED. REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

END ROAD WORK
G20-2A
48"X24"

BANKS AVE

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

LEFT LANE MUST TURN LEFT
R3-7-L
30"X30"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

134+00 135+00 136+00 137+00 138+00 139+00

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

EXISTING PAVEMENT MARKINGS
FOR TURN LANES

LANE CLOSED
R11-2-L
48"X30"

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 3 - MEDIAN CLOSURE - BANKS AVE TO OGDEN AVE	SHEET	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/13/2016 2:45 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1" = 50'_XREF_XREF

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED. REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

TOWER AVE

OGDEN AVE

JOHN AVE

HUGHITT AVE

ALLOW NORMAL TURNING LANES/MOVEMENTS DURING THIS STAGE

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

LANE CLOSED
R11-2-L
48"X30"

OPEN TURN LANE WHEN POSSIBLE

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

139+00 140+00 141+00 142+00 143+00 144+00 145+00 146+00

LANE CLOSED
R11-2-L
48"X30"

LANE CLOSED
R11-2-L
48"X30"

LANE CLOSED
R11-2-L
48"X30"

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

N

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

W04-2L

ROAD WORK AHEAD
W20-1-A

PLACE ROAD WORK AHEAD SIGN ON TEMPORARY SUPPORT AT STA. 155+64

LEFT LANE CLOSED AHEAD
W20-55-A

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

W01-6
48"X24"

147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 3 - MEDIAN CLOSURE - BANKS AVE TO OGDEN AVE	SHEET 454	E

2

FISHER AVE

N

175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+

USH 2 / Belknap Street

CLOUGH AVE

ROAD WORK AHEAD
W20-1-A

LEFT LANE CLOSED AHEAD
W20-5S-A

W04-2L

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED. REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

CATLIN AVE

BIRCH AVE

CYPRESS AVE

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

R3-2 24"X24"

182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00

W01-6 48"X24"

LANE CLOSED
R11-2-L 48"X30"

R3-2 24"X24"

R3-2 24"X24"

R3-2 24"X24"

CATLIN AVE

MORTORELLI DR

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 3 - MEDIAN CLOSURE - BIRCH AVE TO HILL AVE	SHEET 455	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/29/2016 2:25 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1" = 50'_XREF_XREF

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED.
REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND
INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

N

POPLAR AVE

R3-2
24"X24"

LANE CLOSED
R11-2-L
48"X30"

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00

USH 2 / Belknap Street

KEEP ENTRANCE OPEN

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

PINE AVE

ELM AVE

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

USH 2 / Belknap Street

197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 3 - MEDIAN CLOSURE - BIRCH AVE TO HILL AVE	SHEET E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/29/2016 2:24 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1" = 50'_XREF_XREF
WISDOT/CADDS SHEET 44

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED.
REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND
INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

CEDAR AVE

HILL AVE

HILL AVE

E. 7TH ST

E. 5TH ST

USH 2 / Belknap Street

R3-2
24"X24"

R3-2
24"X24"

R3-2
24"X24"

R3-2
24"X24"

205+00

206+00

207+00

208+00

209+00

210+00

211+00

212+00

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

LANE
CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

N

N

W04-2L

LEFT LANE
CLOSED
AHEAD
W20-5S-A

ROAD
WORK
AHEAD
W20-1-A

END
ROAD WORK
G20-2A
48"X24"

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

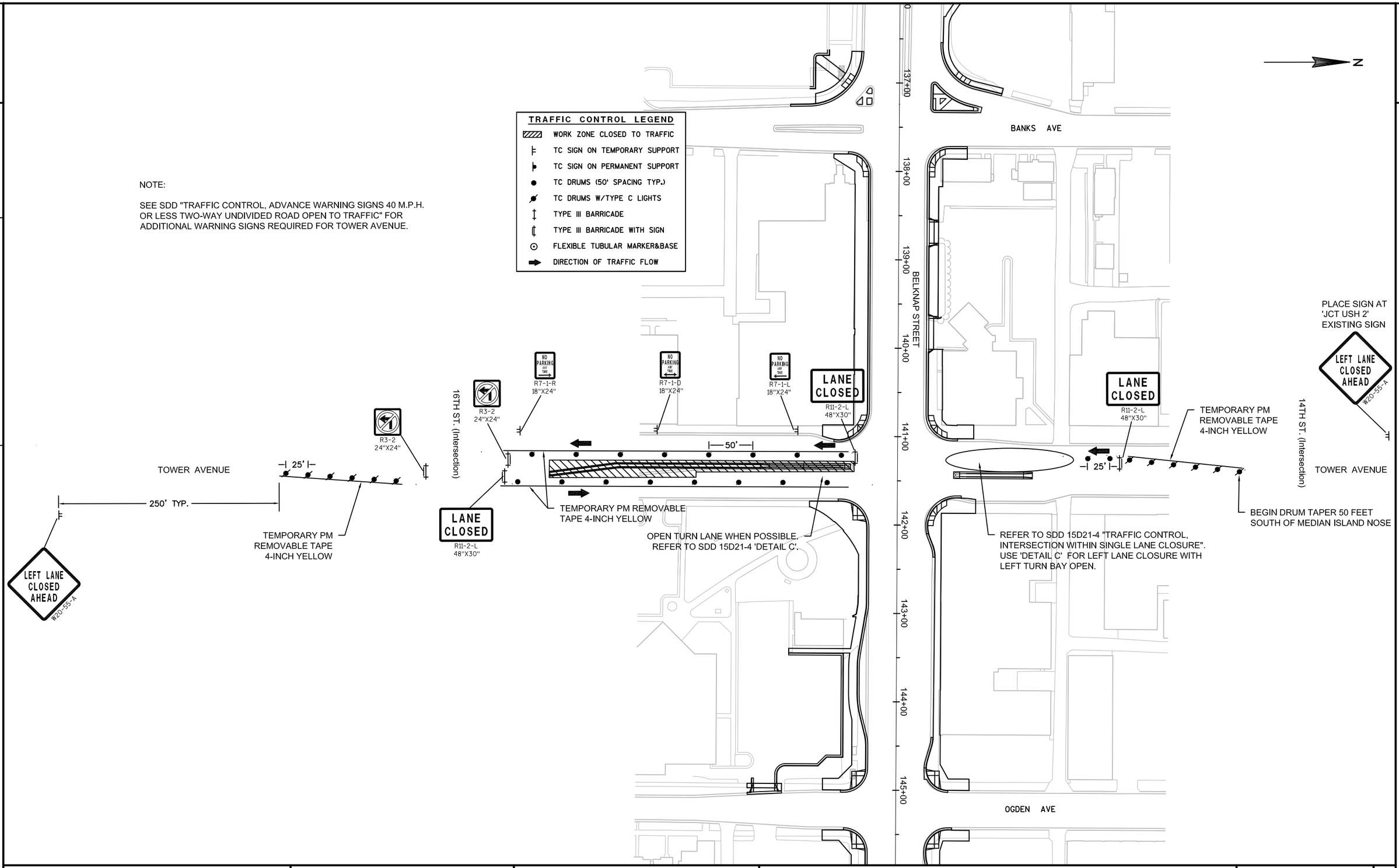
PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 3 - MEDIAN CLOSURE - BIRCH AVE TO HILL AVE	SHEET 457	E

NOTE:

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL WARNING SIGNS REQUIRED FOR TOWER AVENUE.

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 3 - MEDIAN CLOSURE - TOWER AVENUE	SHEET 458 E

2

OGDEN AVE

JOHN AVE

N

2

USH 2 / BELKNAP ST

143+00 144+00 145+00 146+00 147+00 148+00 149+00 150+00

ROAD WORK AHEAD
W20-1-A

MAX. 10' WIDTH
W12-52
48"X48"

RIGHT LANE CLOSED AHEAD
W20-5-A

JOHN AVE

HUGHITT AVE

END ROAD WORK
G20-2A
48"X24"

NO PARKING ANY TIME
R7-1-D
18"X24"

HAMMOND AVE

KEEP DEDICATED TURN LANES OPEN AT THIS INTERSECTION

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

USH 2 / BELKNAP ST

151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00

TEMP PM PAINT 4-INCH YELLOW

LANE CLOSED
R11-2-L
48"X30"

TEMP PM PAINT 4-INCH WHITE

TEMP PM PAINT 4-INCH WHITE

W04-2R

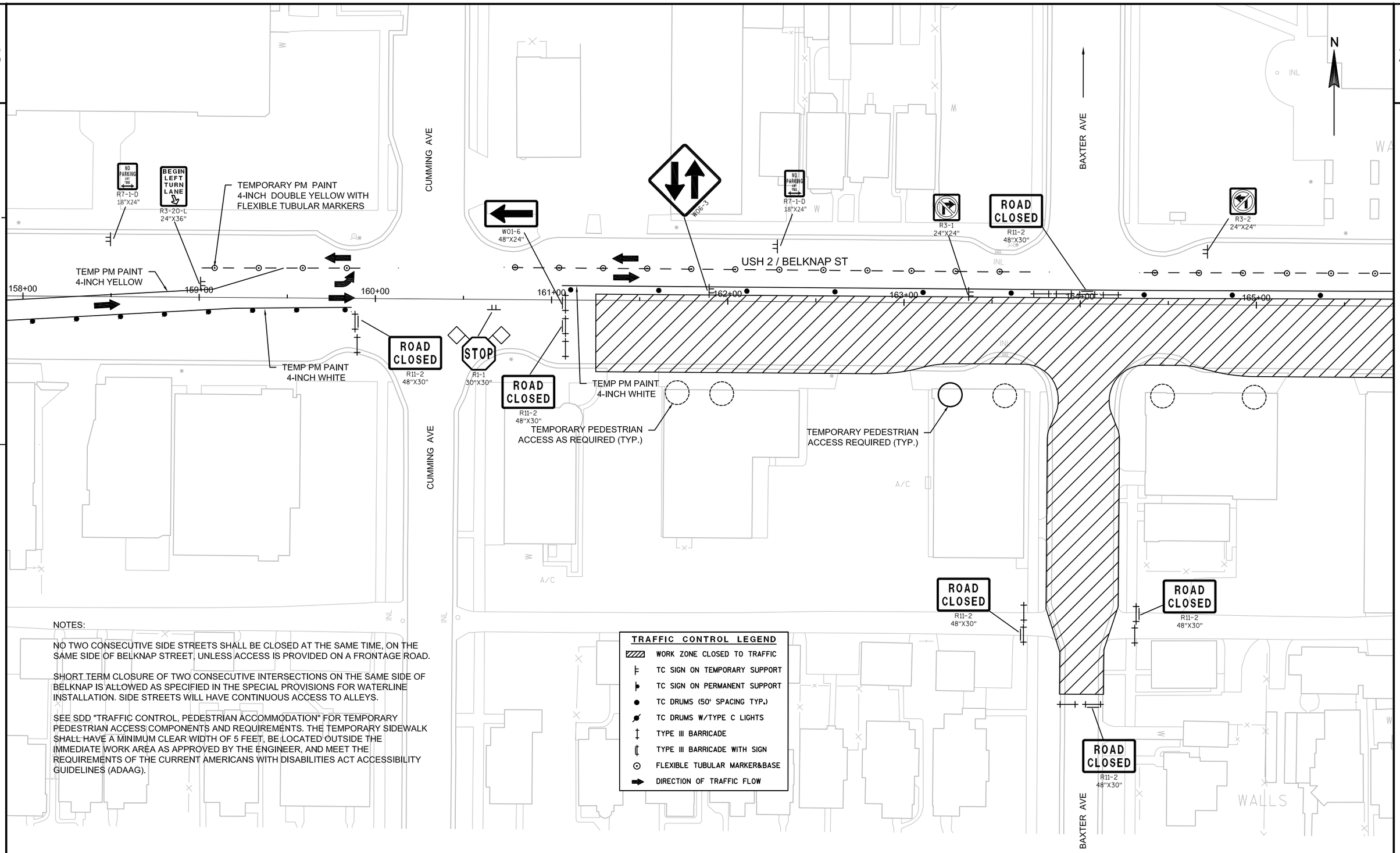
W01-6
48"X24"

W01-4L

HUGHITT AVE

HAMMOND AVE

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 4 - SOUTH SIDE CLOSURE - CUMMING AVE TO BIRCH AVE	SHEET 459	E



NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

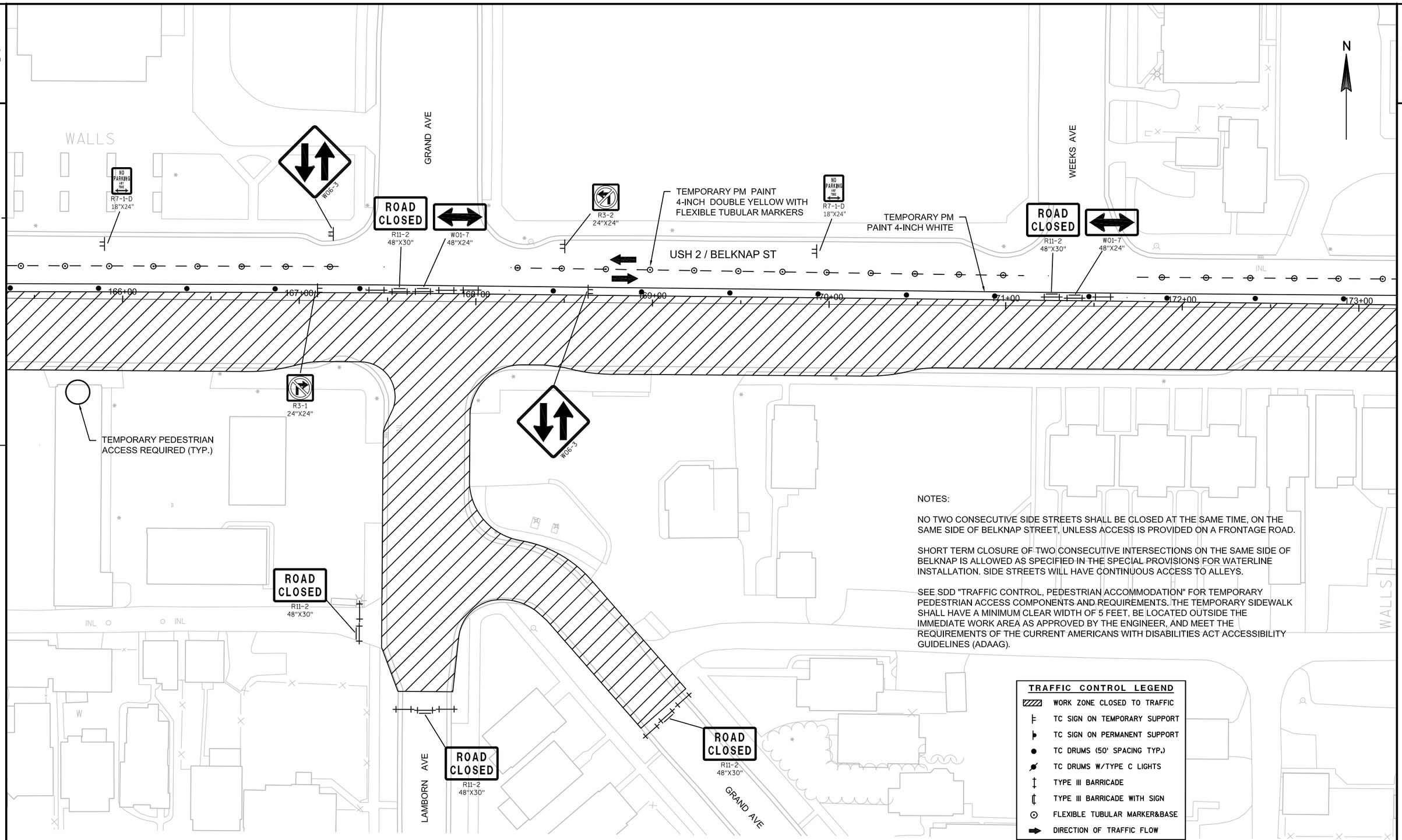
SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

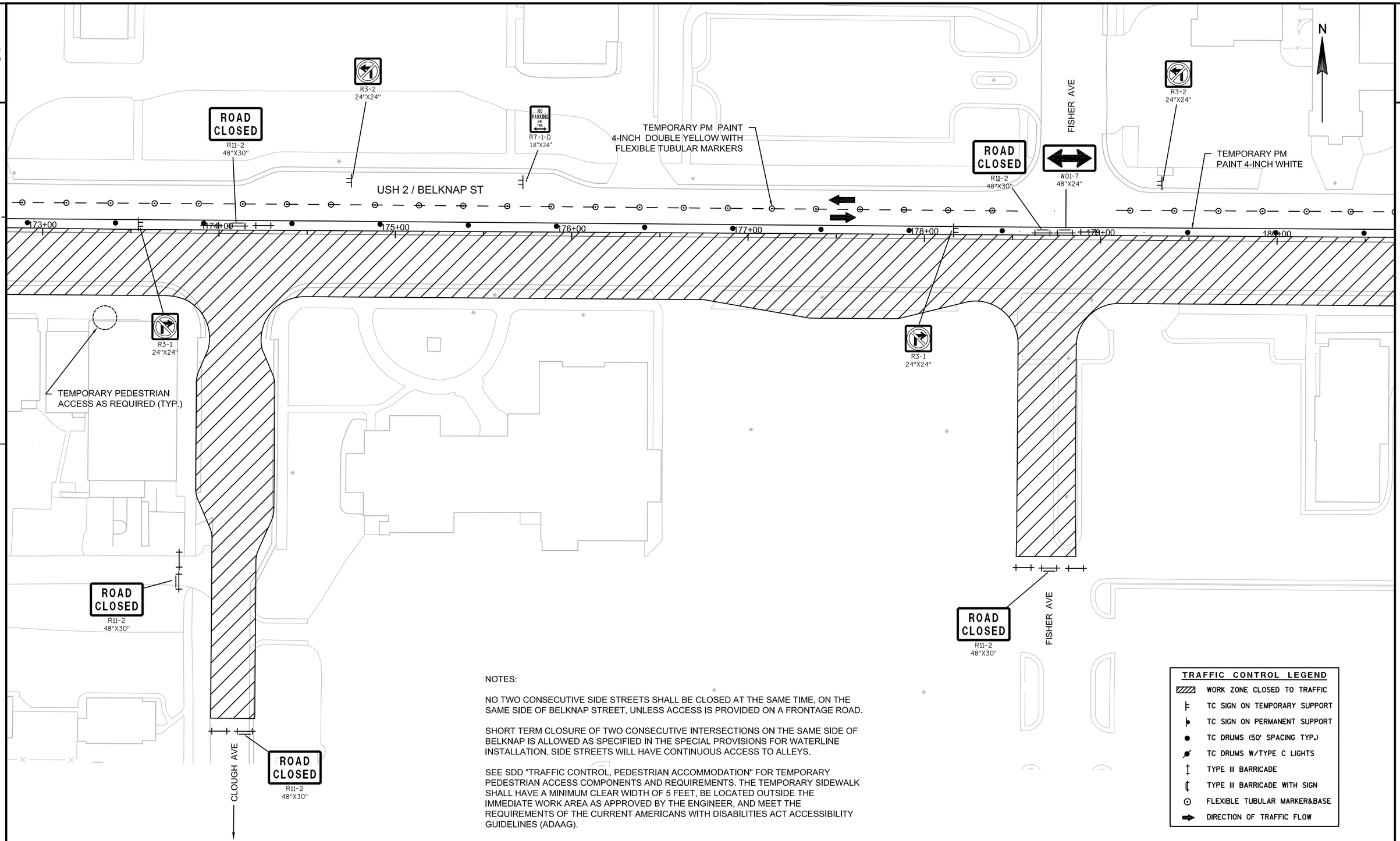
TRAFFIC CONTROL LEGEND

▨	WORK ZONE CLOSED TO TRAFFIC
⊢	TC SIGN ON TEMPORARY SUPPORT
⊢●	TC SIGN ON PERMANENT SUPPORT
●	TC DRUMS (50' SPACING TYP.)
●	TC DRUMS W/TYPE C LIGHTS
↕	TYPE III BARRICADE
↕	TYPE III BARRICADE WITH SIGN
⊙	FLEXIBLE TUBULAR MARKER&BASE
➡	DIRECTION OF TRAFFIC FLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 4 - SOUTH SIDE CLOSURE - CUMMING AVE TO BIRCH AVE	SHEET 460	E



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 4 - SOUTH SIDE CLOSURE - CUMMING AVE TO BIRCH AVE	SHEET 461	E



NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

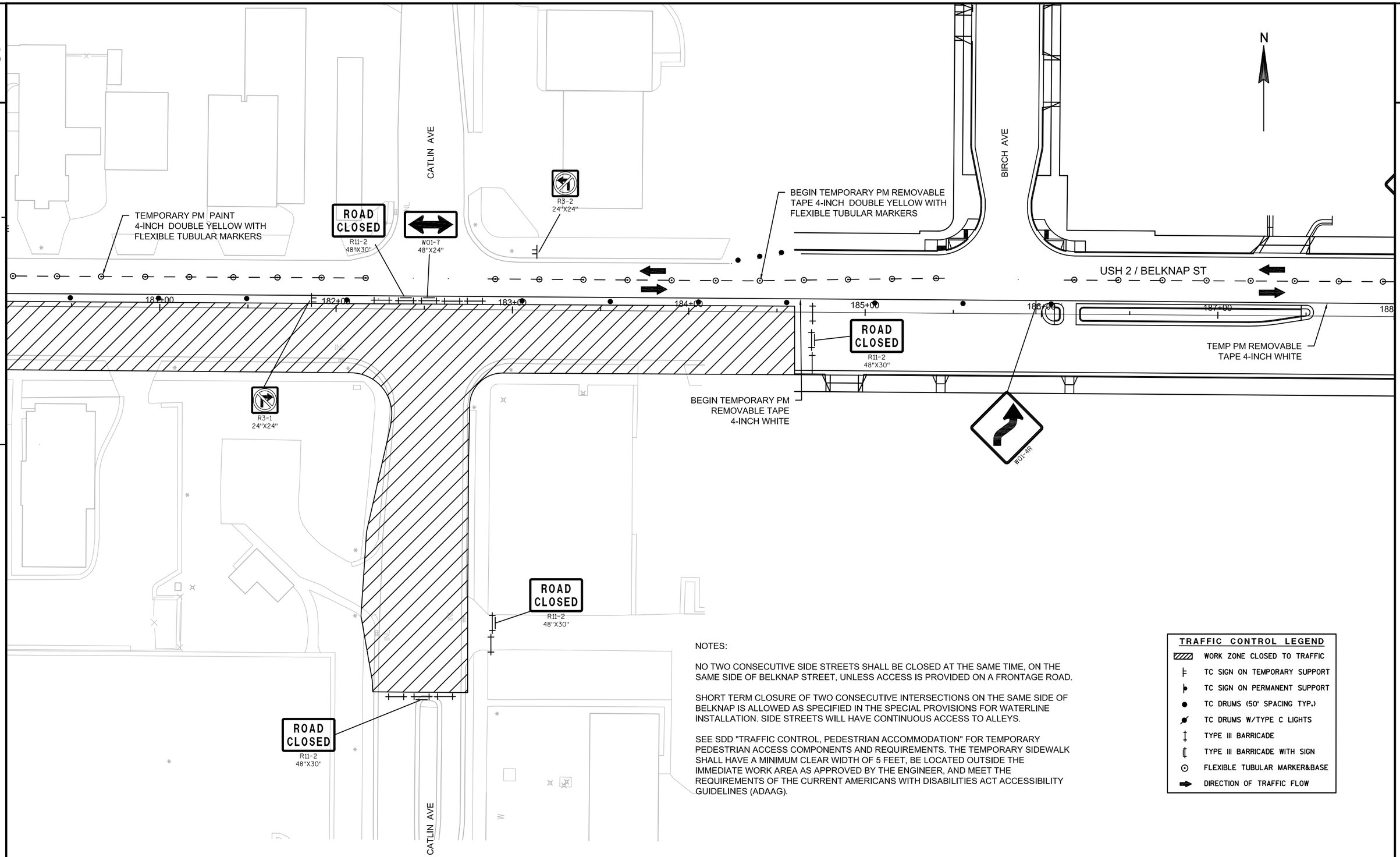
SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 4 - SOUTH SIDE CLOSURE - CUMMING AVE TO BIRCH AVE	SHEET 462	E



NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 4 - SOUTH SIDE CLOSURE - CUMMING AVE TO BIRCH AVE	SHEET 463	E

2

CYPRESS AVE

W06-3

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

R3-2
24"X24"

W01-6
48"X24"

POPLAR AVE

W04-2L

N

2

188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00

USH 2 / BELKNAP ST

TEMPORARY PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

MORTORELLI DR

R3-2
24"X24"

PLACE ADJACENT
TO STOP SIGN.

END
ROAD WORK
G20-2A
48"X24"

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

LEFT LANE
CLOSED
AHEAD
W20-5S-A

PINE AVE

MAX.
10'
WIDTH
W12-52
48"X48"

ELM AVE

ROAD
WORK
AHEAD
W20-1-A

195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00

A HAYES CT

ONE-WA

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 4 - SOUTH SIDE CLOSURE - CUMMING AVE TO BIRCH AVE	SHEET 464	E

ADVANCE SIGNING INSET

N

0 100'

SCALE, FEET

USH 2 / BELKNAP ST

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

250'

W01-6
48"X24"

ROAD WORK AHEAD
W20-1-A

BAND SIGN TO LIGHT POLE

MAX. 10' WIDTH
W12-52
48"X48"

BAND SIGN TO LIGHT POLE

RIGHT LANE CLOSED AHEAD
W20-5-A

BAND SIGN TO LIGHT POLE

W04-2R

BAND SIGN TO LIGHT POLE

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

END ROAD WORK
G20-2A
48"X24"

BANKS AVE

USH 2 / BELKNAP ST

134+00 135+00 136+00 137+00 138+00 139+00

RIGHT LANE MUST TURN RIGHT
R3-7-R
30"X30"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

BEGIN RIGHT TURN LANE
R3-20-RR
24"X36"

EXISTING PAVEMENT MARKINGS
FOR TURN LANES

LANE CLOSED
R11-2-L
48"X30"

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - SOUTH SIDE CLOSURE - OGDEN AVE TO CUMMING AVE	SHEET	E

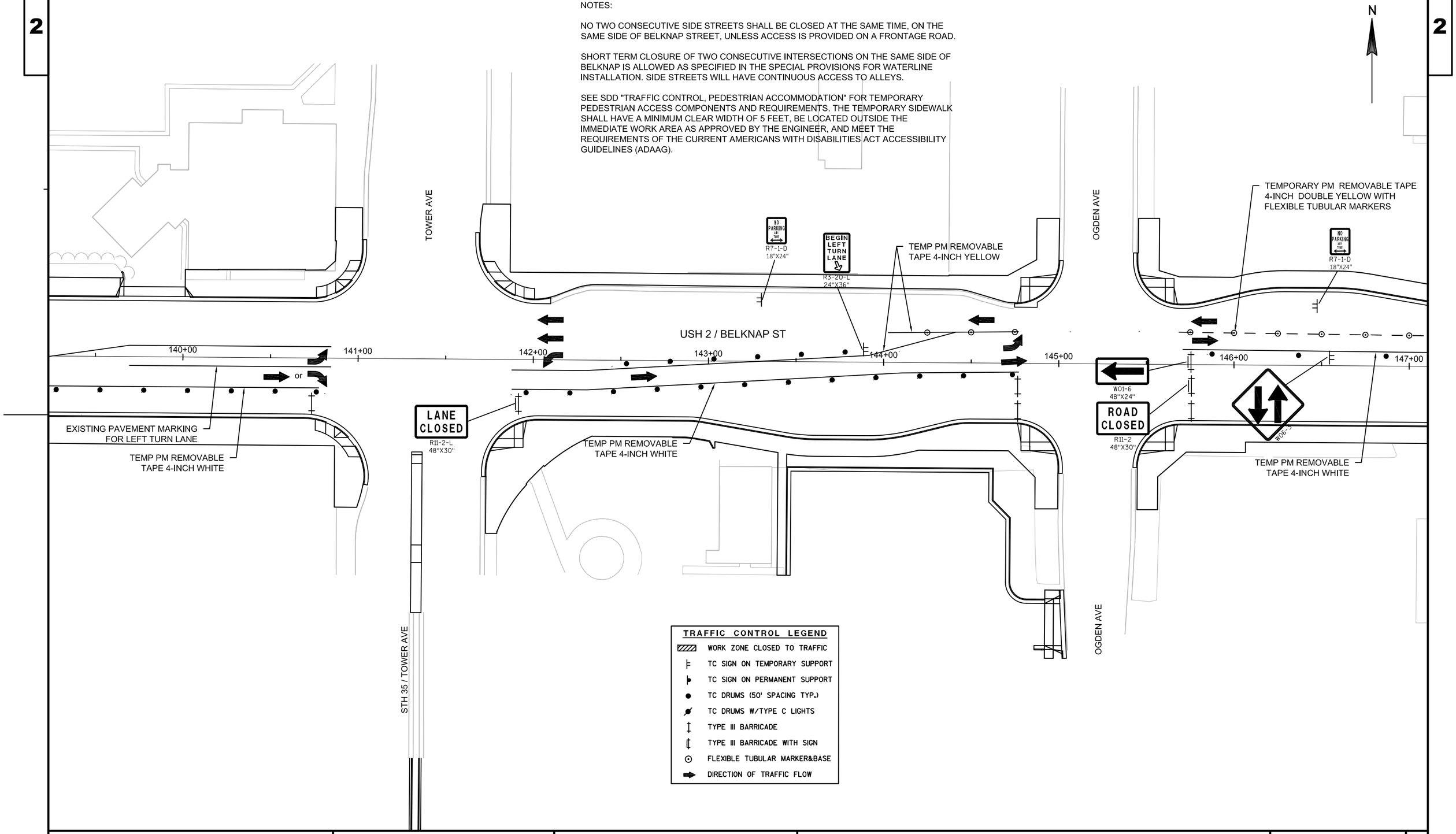
FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/12/2016 2:15 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1 IN: 50 FT_XREF
WISDOT/CADDS SHEET 44

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - SOUTH SIDE CLOSURE - OGDEN AVE TO CUMMING AVE	SHEET 466	E

2

N

JOHN AVE

HUGHITT AVE

BEGIN TEMPORARY PM
PAINT 4-INCH WHITE &
DOUBLE YELLOW

ROAD CLOSED
R11-2
48"X30"

W01-7
48"X24"

R3-2
24"X24"

NO PARKING
ANY TIME
R7-1-D
18"X24"

TEMPORARY PM
PAINT 4-INCH WHITE

USH 2 / BELKNAP ST

148+00

149+00

150+00

151+00

152+00

153+00

154+00

TEMPORARY PM PAINT
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

R3-1
24"X24"

TEMPORARY PEDESTRIAN
ACCESS AS REQUIRED (TYP.)

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

HAMMOND AVE

CUMMING AVE

N

R3-1
24"X24"

ROAD CLOSED
R11-2
48"X30"

W01-7
48"X24"

R3-2
24"X24"

NO PARKING ANY TIME
R7-1-D
18"X24"

TEMPORARY PM PAINT
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

TEMPORARY PM
PAINT 4-INCH WHITE

USH 2 / BELKNAP ST

155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00

TEMPORARY PM
PAINT 4-INCH WHITE

BEGIN TEMP PM
REMOVABLE TAPE
4-INCH WHITE

W01-3R

20
M.P.H.
W013-1
36"X36"

TEMPORARY PEDESTRIAN
ACCESS REQUIRED (TYP.)

TEMPORARY PEDESTRIAN
ACCESS AS REQUIRED (TYP.)

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

ROAD CLOSED
R11-2
48"X30"

HAMMOND AVE

CUMMING AVE

TRAFFIC CONTROL LEGEND

	WORK ZONE CLOSED TO TRAFFIC
	TC SIGN ON TEMPORARY SUPPORT
	TC SIGN ON PERMANENT SUPPORT
	TC DRUMS (50' SPACING TYP.)
	TC DRUMS W/TYPE C LIGHTS
	TYPE III BARRICADE
	TYPE III BARRICADE WITH SIGN
	FLEXIBLE TUBULAR MARKER&BASE
	DIRECTION OF TRAFFIC FLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - SOUTH SIDE CLOSURE - OGDEN AVE TO CUMMING AVE	SHEET 468	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

ROAD CLOSED
R11-2
48"X30"

ONE-WAY

BAXTER AVE

GRAND AVE

R3-1
24"X24"

W01-7
48"X24"

TEMPORARY PM PAINT
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

BEGIN TEMPORARY PM REMOVABLE
TAPE 4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

W01-3R

20
M.P.H.
W013-1
36"X36"

BEGIN TEMP PM
REMOVABLE TAPE
4-INCH WHITE

ROAD CLOSED
R11-2
48"X30"

163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00

ROAD CLOSED
R11-2
48"X30"

USH 2 / BELKNAP ST

R3-2
24"X24"

STOP
R1-1
30"X30"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

CONSTRUCT MEDIAN WITH TEMPORARY PAVEMENT
AFTER STAGE 4 COMPLETION BY MOVING EACH
DIRECTION OF TRAFFIC TO AN OUTSIDE LANE

BAXTER AVE

LAMBORN AVE

W06-3

NO PARKING 4PM TIME
R7-1-D
18"X24"

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - NORTH SIDE CLOSURE - GRAND AVE TO BIRCH AVE	SHEET 469	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

ROAD CLOSED
R11-2
48"X30"

WEEKS AVE

TEMPORARY PEDESTRIAN ACCESS AS REQUIRED (TYP.)

R3-1
24"X24"

170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00

USH 2 / BELKNAP ST

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

TEMP PM REMOVABLE TAPE 4-INCH WHITE

NO PARKING HR TIME
R7-1-D
18"X24"

CLOUGH AVE

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - NORTH SIDE CLOSURE - GRAND AVE TO BIRCH AVE	SHEET 470	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

2

FISHER AVE

CATLIN AVE

ROAD CLOSED
R11-2
48"X30"

R3-1
24"X24"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00

USH 2 / BELKNAP ST

TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

NO PARKING ANY TIME
R7-1-D
18"X24"

R3-2
24"X24"

W01-7
48"X24"

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - NORTH SIDE CLOSURE - GRAND AVE TO BIRCH AVE	SHEET 471	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

BIRCH AVE

CYPRESS AVE

POPLAR AVE

MORTORELLI DR

ROAD CLOSED
R11-2
48"X30"

STOP
R1-1
30"X30"

W01-3L

20 M.P.H.
W013-1
36"X36"

LANE CLOSED
R11-2-L
48"X30"

W01-3

W01-6
48"X24"

TEMP PM REMOVABLE TAPE 4-INCH WHITE

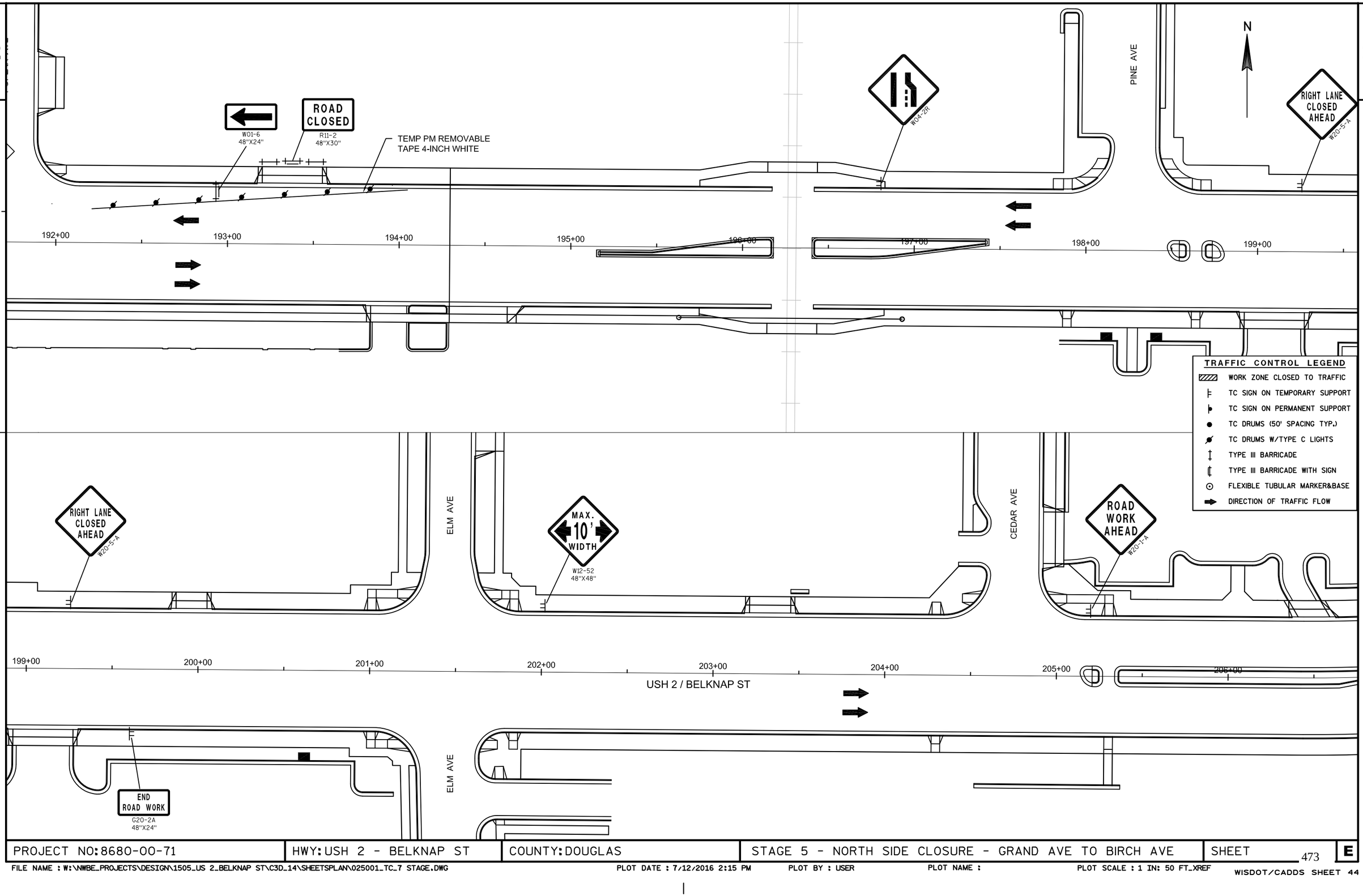
TEMP PM REMOVABLE TAPE 4-INCH YELLOW

USE EXISTING PAVEMENT MARKINGS

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - NORTH SIDE CLOSURE - GRAND AVE TO BIRCH AVE	SHEET 472	E



2

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 5 - NORTH SIDE CLOSURE - GRAND AVE TO BIRCH AVE	SHEET 473	E

2

END ROAD WORK
G20-2A
48"X24"

BANKS AVE

TOWER AVE

N

USH 2 / BELKNAP ST

134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00

TEMP PM REM
TAPE 4-INCH

ROAD WORK AHEAD
W20-1-A

MAX. 10' WIDTH
W12-52
48"X48"

BANKS AVE

LEFT LANE CLOSED AHEAD
W20-5S-A

W04-2L

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

TOWER AVE

OGDEN AVE

W01-4R

ROAD CLOSED
R11-2
48"X30"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

or

141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00

W012-1-L
48"X48"

W01-6
48"X24"

TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

TOWER AVE

OGDEN AVE

W06-3

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 6 - NORTH SIDE CLOSURE - OGDEN AVE TO GRAND AVE	SHEET 474	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

2

JOHN AVE

HUGHITT AVE

ROAD CLOSED R11-2 48"X30"

TEMPORARY PEDESTRIAN ACCESS AS REQUIRED (TYP.)

TEMPORARY PEDESTRIAN ACCESS REQUIRED (TYP.)

MAINTAIN HANDICAP ACCESS TO ENTRANCE

R3-1 24"X24"

149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00

USH 2 / BELKNAP ST

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

NO PARKING ANY TIME R7-1-D 18"X24"

R3-2 24"X24"

W01-7 48"X24"

TEMP PM REMOVABLE TAPE 4-INCH WHITE

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 6 - NORTH SIDE CLOSURE - OGDEN AVE TO GRAND AVE	SHEET 475	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

2

HAMMOND AVE

CUMMING AVE

ROAD CLOSED
R11-2
48"X30"

R3-1
24"X24"

156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00

USH 2 / BELKNAP ST

W01-7
48"X24"

TEMP PM REMOVABLE TAPE
4-INCH DOUBLE YELLOW WITH
FLEXIBLE TUBULAR MARKERS

NO PARKING ANY TIME
R7-1-D
18"X24"

R3-2
24"X24"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 6 - NORTH SIDE CLOSURE - OGDEN AVE TO GRAND AVE	SHEET 476	E

NOTES:

NO TWO CONSECUTIVE SIDE STREETS SHALL BE CLOSED AT THE SAME TIME, ON THE SAME SIDE OF BELKNAP STREET, UNLESS ACCESS IS PROVIDED ON A FRONTAGE ROAD.

SHORT TERM CLOSURE OF TWO CONSECUTIVE INTERSECTIONS ON THE SAME SIDE OF BELKNAP IS ALLOWED AS SPECIFIED IN THE SPECIAL PROVISIONS FOR WATERLINE INSTALLATION. SIDE STREETS WILL HAVE CONTINUOUS ACCESS TO ALLEYS.

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR TEMPORARY PEDESTRIAN ACCESS COMPONENTS AND REQUIREMENTS. THE TEMPORARY SIDEWALK SHALL HAVE A MINIMUM CLEAR WIDTH OF 5 FEET, BE LOCATED OUTSIDE THE IMMEDIATE WORK AREA AS APPROVED BY THE ENGINEER, AND MEET THE REQUIREMENTS OF THE CURRENT AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

N

2

2

GRAND AVE

ROAD CLOSED
R11-2
48"X30"

BAXTER AVE ONE-WAY

ROAD CLOSED
R11-2
48"X30"

INSTALL TEMPORARY PEDESTRIAN SAFETY FENCE ON EACH SIDE OF CROSSWALK

W1-3

ROAD CLOSED
R11-2
48"X30"

W01-6
48"X24"

TEMP PM REMOVABLE TAPE 4-INCH WHITE

ROAD CLOSED
R11-2
48"X30"

R3-1
24"X24"

164+00 165+00 166+00 167+00 168+00 169+00 170+00 171+00

USH 2 / BELKNAP ST

TEMP PM REMOVABLE TAPE 4-INCH DOUBLE YELLOW WITH FLEXIBLE TUBULAR MARKERS

NO PARKING ANY TIME
R7-1-D
18"X24"

R3-2
24"X24"

BAXTER AVE

LAMBORN AVE

W01-7
48"X24"

ROAD CLOSED
R11-2
48"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 6 - NORTH SIDE CLOSURE - OGDEN AVE TO GRAND AVE	SHEET 477	E

2

WEEKS AVE

W01-3L

20 M.P.H.
W013-1
36"X36"

W01-6
48"X24"

TEMP PM REMOVABLE
TAPE 4-INCH WHITE

W04-2R

FISHER AVE

N

2

STOP
R1-1
30"X30"

172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+

CLOUGH AVE

FISHER AVE

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

RIGHT LANE
CLOSED
AHEAD
W20-5-A

CATLIN AVE

MAX.
10'
WIDTH
W12-52
48"X48"

BIRCH AVE

ROAD
WORK
AHEAD
W20-1-A

179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00

END
ROAD WORK
G20-2A
48"X24"

CATLIN AVE

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 6 - NORTH SIDE CLOSURE - OGDEN AVE TO GRAND AVE	SHEET	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/22/2016 3:50 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1" = 50'_XREF_XREF
WISDOT/CADDS SHEET 44

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED.
REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND
INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

2

END ROAD WORK
G20-2A
48"X24"

BANKS AVE

TOWER AVE

N

2

136+00 137+00 138+00 139+00 USH 2 / BELKNAP ST 140+00 141+00 142+00 143+00

ROAD WORK AHEAD
W20-1-A

BANKS AVE

LEFT LANE CLOSED AHEAD
W20-5S-A

W04-2L

TOWER AVE

W01-6
48"X24"

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

OGDEN AVE

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

JOHN AVE
ONE-WAY

R3-2
24"X24"

R3-2
24"X24"

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

LANE CLOSED
R11-2-L
48"X30"

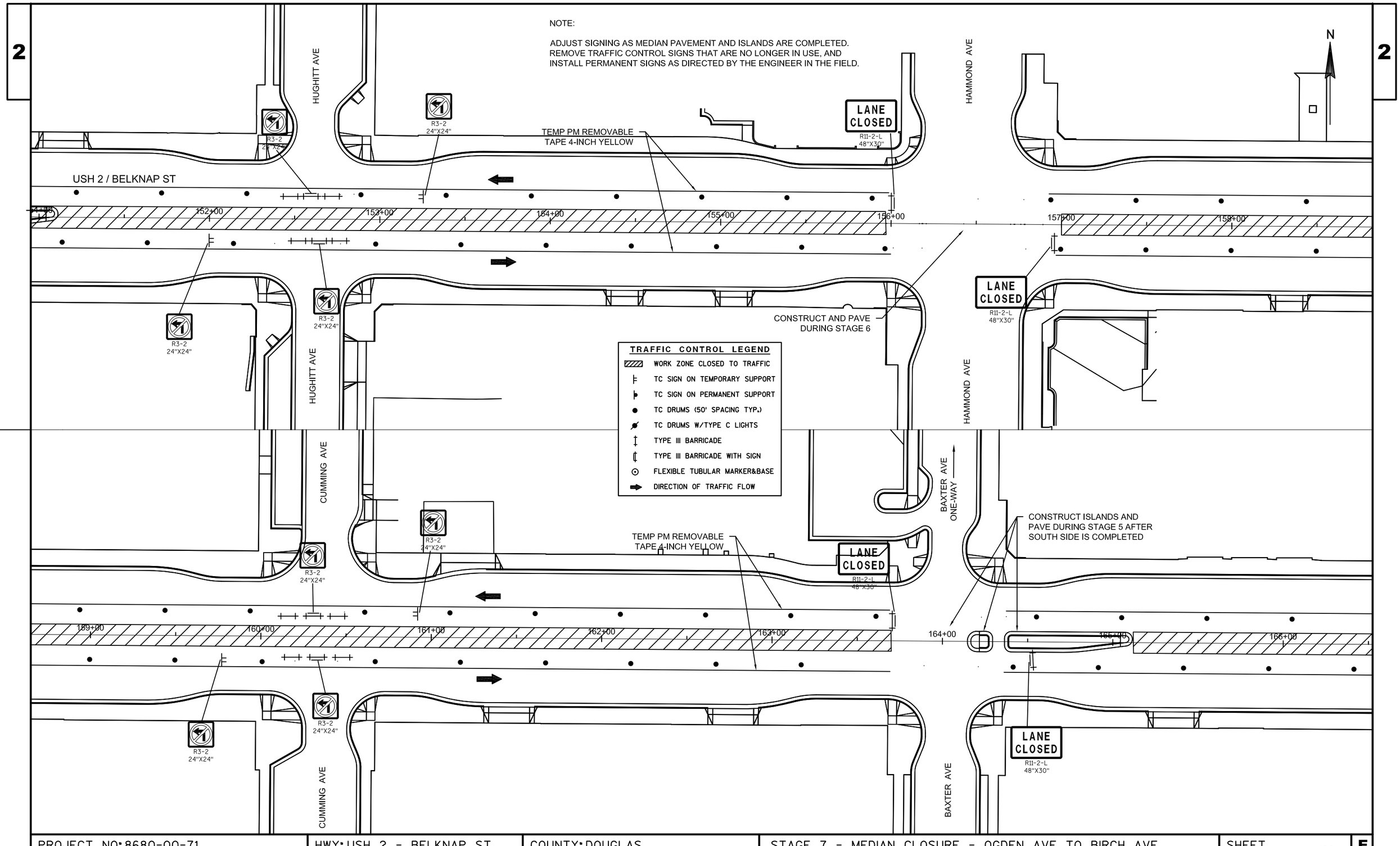
OGDEN AVE

JOHN AVE
ONE-WAY

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 7 - MEDIAN CLOSURE - OGDEN AVE TO BIRCH AVE	SHEET 479	E

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED.
REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND
INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.



PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 7 - MEDIAN CLOSURE - OGDEN AVE TO BIRCH AVE	SHEET 480	E

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED. REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

2

2

GRAND AVE

WEEKS AVE

N

LANE CLOSED
R11-2-L
48"X30"

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

R3-2
24"X24"

USH 2 / BELKNAP ST

167+00 168+00 169+00 170+00 171+00 173+00 174+00

CONSTRUCT AND PAVE
DURING STAGE 6

LANE CLOSED
R11-2-L
48"X30"

LAMBORN AVE

CLOUGH AVE
ONE-WAY

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

FISHER AVE

R3-2
24"X24"

TEMP PM REMOVABLE
TAPE 4-INCH YELLOW

LANE CLOSED
R11-2-L
48"X30"

175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00

FISHER AVE

PROJECT NO:8680-00-71	HWY:USH 2 - BELKNAP ST	COUNTY:DOUGLAS	STAGE 7 - MEDIAN CLOSURE - OGDEN AVE TO BIRCH AVE	SHEET	E

FILE NAME : W:\NWBE_PROJECTS\DESIGN\1505_US 2_BELKNAP ST\C3D_14\SHEETSPLAN\025001_TC_7 STAGE.DWG PLOT DATE : 7/29/2016 12:23 PM PLOT BY : USER PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 44

NOTE:

ADJUST SIGNING AS MEDIAN PAVEMENT AND ISLANDS ARE COMPLETED. REMOVE TRAFFIC CONTROL SIGNS THAT ARE NO LONGER IN USE, AND INSTALL PERMANENT SIGNS AS DIRECTED BY THE ENGINEER IN THE FIELD.

2

CATLIN AVE

CONSTRUCT AND PAVE DURING STAGE 5

LANE CLOSED
R11-2-L
48"X30"

BIRCH AVE

CYPRESS AVE

N

183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00

USH 2 / BELKNAP ST

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

W1-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

TEMP PM REMOVABLE TAPE 4-INCH YELLOW

CATLIN AVE

MORTORELLI DR

TRAFFIC CONTROL LEGEND

- WORK ZONE CLOSED TO TRAFFIC
- TC SIGN ON TEMPORARY SUPPORT
- TC SIGN ON PERMANENT SUPPORT
- TC DRUMS (50' SPACING TYP.)
- TC DRUMS W/TYPE C LIGHTS
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- FLEXIBLE TUBULAR MARKER&BASE
- DIRECTION OF TRAFFIC FLOW

W04-2L

POPLAR AVE

LEFT LANE CLOSED AHEAD
W20-55-A

ROAD WORK AHEAD
W20-1-A

190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00

USH 2 / BELKNAP ST

END ROAD WORK
G20-2A
48"X24"

2

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	STAGE 7 - MEDIAN CLOSURE - OGDEN AVE TO BIRCH AVE	SHEET 482	E

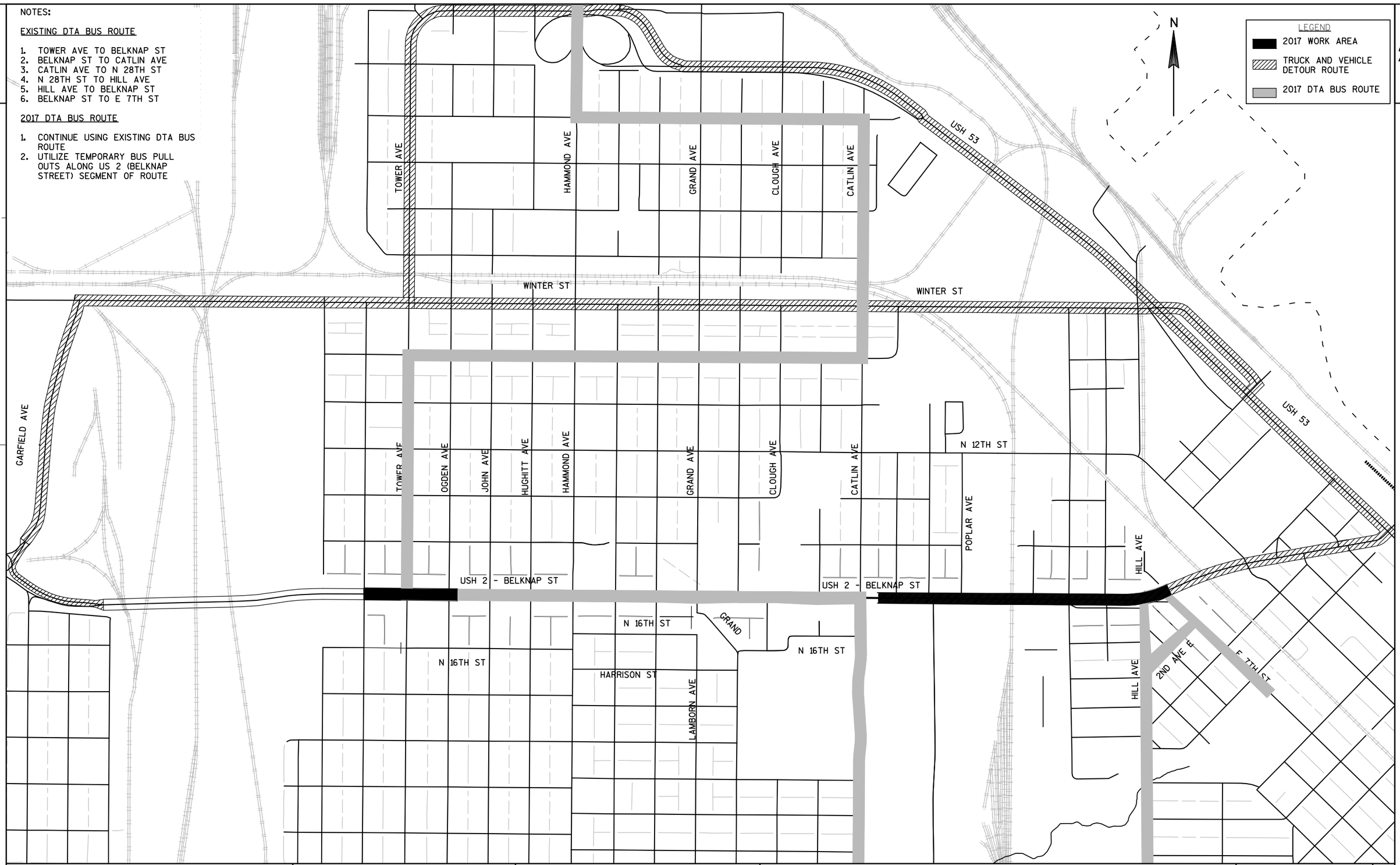
NOTES:

EXISTING DTA BUS ROUTE

1. TOWER AVE TO BELKNAP ST
2. BELKNAP ST TO CATLIN AVE
3. CATLIN AVE TO N 28TH ST
4. N 28TH ST TO HILL AVE
5. HILL AVE TO BELKNAP ST
6. BELKNAP ST TO E 7TH ST

2017 DTA BUS ROUTE

1. CONTINUE USING EXISTING DTA BUS ROUTE
2. UTILIZE TEMPORARY BUS PULL OUTS ALONG US 2 (BELKNAP STREET) SEGMENT OF ROUTE



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	2017 DETOUR / BUS ROUTE - OVERVIEW	SHEET 483	E

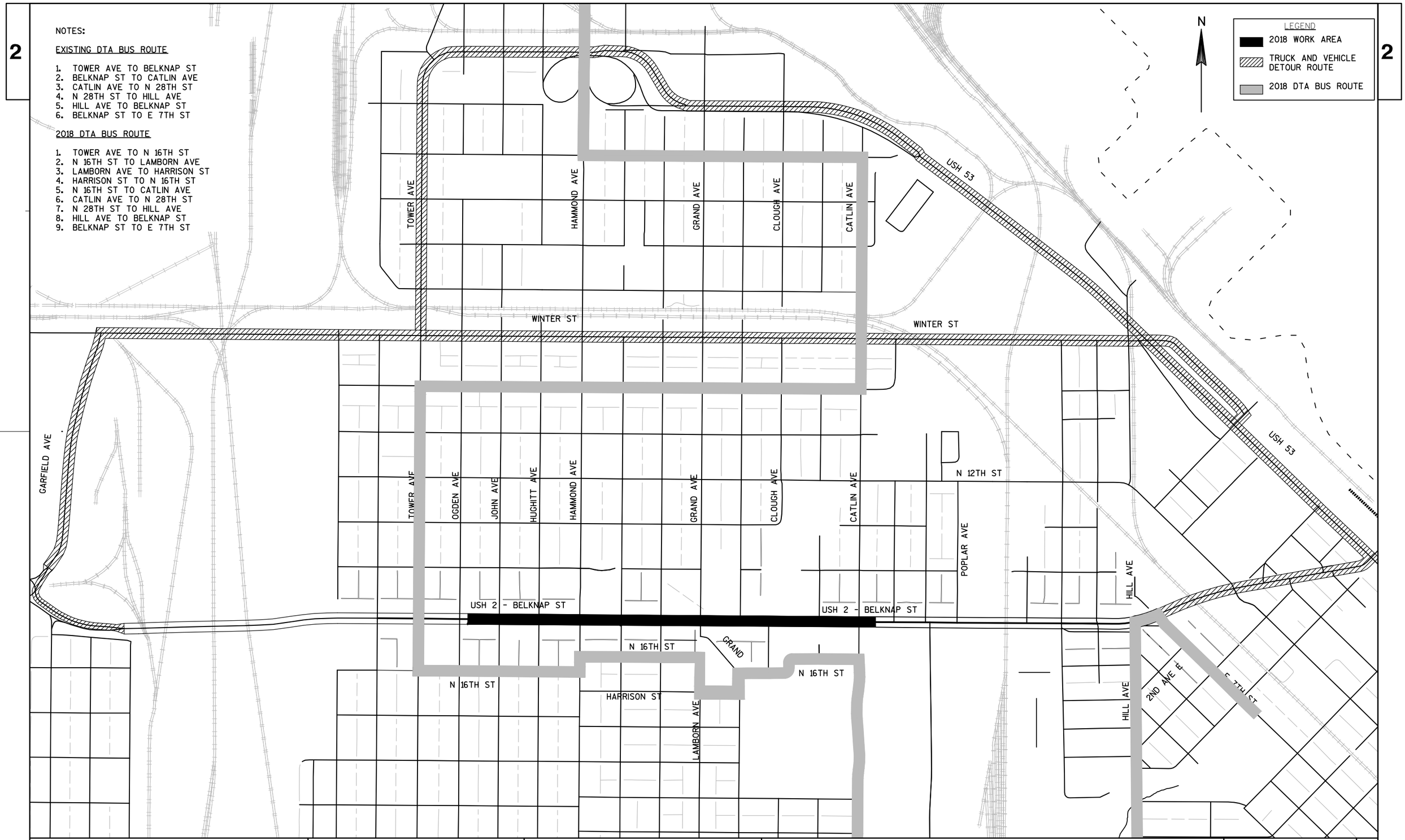
NOTES:

EXISTING DTA BUS ROUTE

1. TOWER AVE TO BELKNAP ST
2. BELKNAP ST TO CATLIN AVE
3. CATLIN AVE TO N 28TH ST
4. N 28TH ST TO HILL AVE
5. HILL AVE TO BELKNAP ST
6. BELKNAP ST TO E 7TH ST

2018 DTA BUS ROUTE

1. TOWER AVE TO N 16TH ST
2. N 16TH ST TO LAMBORN AVE
3. LAMBORN AVE TO HARRISON ST
4. HARRISON ST TO N 16TH ST
5. N 16TH ST TO CATLIN AVE
6. CATLIN AVE TO N 28TH ST
7. N 28TH ST TO HILL AVE
8. HILL AVE TO BELKNAP ST
9. BELKNAP ST TO E 7TH ST



PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	2018 DETOUR / BUS ROUTE - OVERVIEW	SHEET 484	E

2

N

EP: 13+33.29
Y = 306747.464
X = 147036.871

STA AHEAD = 13+33.29
STA BACK = 701+24.18

TOWER AVE
N00°25'32"E

STA 141+36.92 US 2 =
STA 688+04.23 TOWER AVE
Y= 305427.546
X= 147027.067

EP: 9+00.00
Y = 305830.415
X = 146644.709

BANKS AVE
N00°25'32"E

STA 145+21.92 US 2 =
STA 100+00.00 ODGEN AVE
Y= 305424.669
X= 147412.056

EP: 104+00.00
Y = 305824.662
X = 147415.045

ODGEN AVE
N00°25'41"E

EP: 304+00.00
Y = 305821.891
X = 147785.145

JOHN AVE

EP: 314+00.00
Y = 305819.129
X = 148155.155

HUGHITT AVE
N00°25'41"E

STA 152+62.05 US 2 =
STA 310+00.00 HUGHITT AVE
Y= 305419.139
X= 148152.166

EP: 335+35.68
Y = 305951.919
X = 148541.214

HAMMOND AVE
N00°25'30"E

EP: 343+75.00
Y = 305788.373
X = 148925.171

CUMMING AVE
N00°25'41"E

STA 60+32.28 US 2 =
STA 340+00.00 CUMMING AVE
Y = 305413.383
X = 148922.369

EP: 354+00.00
Y = 305810.604
X = 149295.467

BAXTER AVE
N00°25'30"E

MATCHLINE STA 165+00

135 S89°34'19"E 140 S89°34'19"E 145 150 155 160

700 695 690 685 300 310 330 350 325

N00°24'02"E N00°25'32"E N00°24'11"E N00°24'00"E N00°25'41"E

PI: 300+00.00
Y = 305421.904
X = 147782.156

US 2 - BELKNAP ST

STA 137+51.58 US 2 =
STA 5+00.00 BANKS AVE
Y= 305430.426
X= 146641.738

BP: 2+00.00
Y = 305130.433
X = 146639.641

BP: 682+54.23
Y = 304877.560
X = 147023.222

STA 148+92.03 US 2 =
STA 300+00.00 JOHN AVE
Y= 305421.904
X= 147782.156

BP: 96+00.00
Y = 305024.679
X = 147409.242

BP: 297+00.00
Y = 305121.909
X = 147780.045

BP: 306+50.00
Y = 305069.150
X = 148149.703

STA 156+47.14 US 2 =
STA 330+00.00 HAMMOND AVE
Y= 305416.261
X= 148537.240

BP: 323+62.10
Y = 304778.372
X = 148532.786

BP: 337+00.00
Y = 305113.391
X = 148920.274

BP: 347+25.00
Y = 305135.625
X = 149290.444

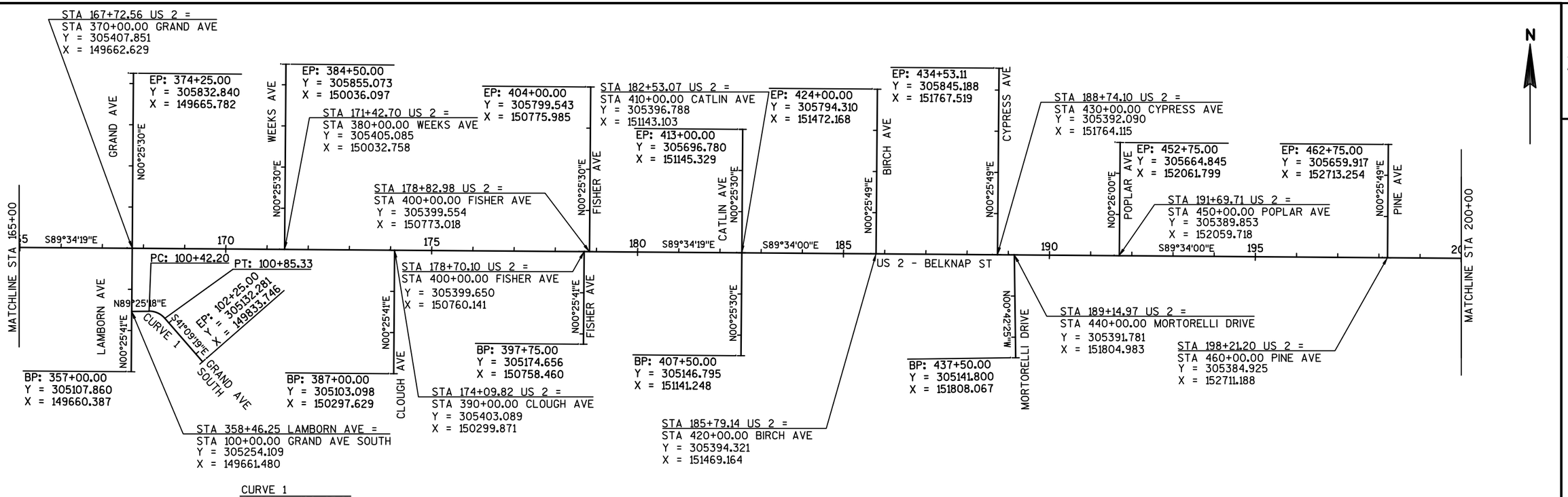
STA 164+02.42 US 2 =
STA 350+00.00 BAXTER AVE
Y= 305410.617
X= 149292.499

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	ALIGNMENT	SHEET 485	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027201_AD - 027201-AD

PLOT DATE : 10/19/2016 10:56 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN: 250 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	ALIGNMENT	SHEET 486	E

Estimate Of Quantities

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0010	108.3100.S	Incentive/Disincentive for Interim Completion of Work 001. Stages 1 through 3	CD	180,000.000	180,000.000		
0020	108.3100.S	Incentive/Disincentive for Interim Completion of Work 002. Stages 4 Through 7	CD	180,000.000	180,000.000		
0030	201.0120	Clearing	ID	764.000	614.000		150.000
0040	201.0205	Grubbing	STA	30.000	28.000		2.000
0050	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000		
0060	204.0100	Removing Pavement	SY	64,256.000	62,222.000		2,034.000
0070	204.0150	Removing Curb & Gutter	LF	21,860.000	21,364.000		496.000
0080	204.0155	Removing Concrete Sidewalk	SY	19,469.000	18,684.000		785.000
0090	204.0195	Removing Concrete Bases	EACH	142.000	140.000		2.000
0100	204.0210	Removing Manholes	EACH	10.000	9.000		1.000
0110	204.0220	Removing Inlets	EACH	64.000	58.000		6.000
0120	204.0230	Removing Building (station) 001. 207+75	LS	1.000	1.000		
0130	204.0245	Removing Storm Sewer (size) 001. 4-Inch	LF	10.000	10.000		
0140	204.0245	Removing Storm Sewer (size) 002. 6-Inch	LF	78.000	73.000		5.000
0150	204.0245	Removing Storm Sewer (size) 003. 8-Inch	LF	159.000	159.000		
0160	204.0245	Removing Storm Sewer (size) 004. 10-Inch	LF	444.000	404.000		40.000
0170	204.0245	Removing Storm Sewer (size) 005. 12-Inch	LF	2,490.000	2,347.000		143.000
0180	204.0245	Removing Storm Sewer (size) 006. 15-Inch	LF	148.000	89.000		59.000
0190	204.0245	Removing Storm Sewer (size) 007. 18-Inch	LF	182.000	182.000		
0200	204.0245	Removing Storm Sewer (size) 008. 24-Inch	LF	32.000	32.000		
0210	204.0245	Removing Storm Sewer (size) 009. 36-Inch	LF	8.000	8.000		
0220	204.0245	Removing Storm Sewer (size) 010. 48-Inch	LF	8.000	8.000		
0230	204.0245	Removing Storm Sewer (size) 011. 54-Inch	LF	8.000	8.000		
0240	204.0280	Sealing Pipes	EACH	16.000	14.000		2.000
0250	204.9060.S	Removing (item description) 001. Concrete Parking Blocks	EACH	12.000	12.000		
0260	204.9060.S	Removing (item description) 002. Lighting Control Cabinet	EACH	4.000	2.000		2.000
0270	204.9060.S	Removing (item description) 003. Existing Flag Pole and Base	EACH	2.000	2.000		
0280	204.9060.S	Removing (item description) 004. Wood Piling	EACH	8.000	8.000		
0290	204.9090.S	Removing (item description) 001. Retaining Wall	LF	88.000	88.000		
0300	205.0100	Excavation Common	CY	77,902.000	74,014.000		3,888.000
0310	208.1100	Select Borrow	CY	28,254.000	26,938.000		1,316.000
0320	211.0100	Prepare Foundation for Asphaltic Paving (project) 001. 8680-00-71	LS	1.000	1.000		
0330	211.0200	Prepare Foundation for Concrete Pavement (project) 001. 8680-00-71	LS	1.000	1.000		
0340	213.0100	Finishing Roadway (project) 001. 8680-00-71	EACH	1.000	1.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0350	305.0115	Base Aggregate Dense 3/4-Inch	CY	21.000	21.000		
0360	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	49,718.000	43,549.000	3,502.000	2,667.000
0370	310.0110	Base Aggregate Open-Graded	TON	18,049.000	17,489.000		560.000
0380	310.0115	Base Aggregate Open-Graded	CY	74.000	74.000		
0390	312.0115	Select Crushed Material	CY	56.000	56.000		
0400	415.0210	Concrete Pavement Gaps	EACH	20.000	20.000		
0410	416.0260	Concrete Driveway HES 6-Inch	SY	3,212.000	3,015.000		197.000
0420	416.0610	Drilled Tie Bars	EACH	502.000	502.000		
0430	416.0620	Drilled Dowel Bars	EACH	518.000	398.000		120.000
0440	416.1710	Concrete Pavement Repair	SY	50.000	50.000		
0450	416.1720	Concrete Pavement Replacement	SY	714.000	714.000		
0460	455.0605	Tack Coat	GAL	12,709.000	11,224.000		1,485.000
0470	460.6443	HMA Pavement 3 MT 58-34 H	TON	2,808.000	2,424.000		384.000
0480	460.6444	HMA Pavement 4 MT 58-34 H	TON	2,066.000	1,913.000		153.000
0490	460.7644	HMA Pavement 4 HT 58-34 V	TON	72.000	72.000		
0500	465.0105	Asphaltic Surface	TON	1,855.000	1,790.000		65.000
0510	465.0125	Asphaltic Surface Temporary	TON	774.000	500.000	274.000	
0520	520.8000	Concrete Collars for Pipe	EACH	14.000	14.000		
0530	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	4.000	4.000		
0540	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000		
0550	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	120.000	120.000		
0560	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	810.000	173.000		637.000
0570	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	11,366.000	10,888.000		478.000
0580	601.0600	Concrete Curb Pedestrian	LF	1,224.000	1,144.000		80.000
0590	602.0415	Concrete Sidewalk 6-Inch	SF	210,689.000	202,495.000		8,194.000
0600	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	2,415.000	2,385.000		30.000
0610	602.1500	Concrete Steps	SF	14.000	14.000		
0620	602.2400	Concrete Safety Islands	SF	110.000	110.000		
0630	603.8000	Concrete Barrier Temporary Precast Delivered	LF	10,880.000	6,400.000	4,480.000	
0640	603.8125	Concrete Barrier Temporary Precast Installed	LF	10,880.000	6,400.000	4,480.000	
0650	606.0300	Riprap Heavy	CY	5.000	5.000		
0660	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	734.000	734.000		
0670	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,285.000	1,285.000		
0680	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	375.000	375.000		
0690	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	359.000	359.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0700	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	392.000	392.000		
0710	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	390.000	390.000		
0720	608.0354	Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	LF	8.000	8.000		
0730	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	4,271.000	3,846.000		425.000
0740	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	1,812.000	1,613.000		199.000
0750	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	1,919.000	1,629.000		290.000
0760	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	721.000	574.000		147.000
0770	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	LF	428.000	428.000		
0780	608.0460	Storm Sewer Pipe Reinforced Concrete Class IV 60-Inch	LF	184.000	184.000		
0790	608.0472	Storm Sewer Pipe Reinforced Concrete Class IV 72-Inch	LF	2,935.000	2,935.000		
0800	611.0420	Reconstructing Manholes	EACH	17.000	16.000		1.000
0810	611.0530	Manhole Covers Type J	EACH	31.000	30.000		1.000
0820	611.0545	Manhole Covers Type L	EACH	4.000	4.000		
0830	611.0612	Inlet Covers Type C	EACH	2.000	2.000		
0840	611.0624	Inlet Covers Type H	EACH	123.000	116.000		7.000
0850	611.0639	Inlet Covers Type H-S	EACH	120.000	113.000		7.000
0860	611.0645	Inlet Covers Type MS-A	EACH	3.000	1.000		2.000
0870	611.2004	Manholes 4-FT Diameter	EACH	12.000	12.000		
0880	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000		
0890	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000		
0900	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000		
0910	611.2008	Manholes 8-FT Diameter	EACH	1.000	1.000		
0920	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000		
0930	611.3004	Inlets 4-FT Diameter	EACH	85.000	81.000		4.000
0940	611.3230	Inlets 2x3-FT	EACH	139.000	129.000		10.000
0950	611.3901	Inlets Median 1 Grate	EACH	3.000	1.000		2.000
0960	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000		
0970	611.8115	Adjusting Inlet Covers	EACH	4.000	4.000		
0980	611.9800.S	Pipe Grates	EACH	4.000	4.000		
0990	612.0106	Pipe Underdrain 6-Inch	LF	22,893.000	21,734.000		1,159.000
1000	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	168.000	168.000		
1010	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	125.000	125.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
1020	612.0902.S	Insulation Board Polystyrene (inch) 001. 4-Inch	SY	238.000		238.000	
1030	614.0700	Sand Barrels Arrays	EACH	16.000	8.000	8.000	
1040	618.0100	Maintenance And Repair of Haul Roads (project) 001. 8680-00-71	EACH	1.000	1.000		
1050	619.1000	Mobilization	EACH	1.000	0.820	0.180	
1060	620.0300	Concrete Median Sloped Nose	SF	1,168.000	1,168.000		
1070	621.1100	Landmark Reference Monuments and Cast Iron Covers	EACH	3.000	3.000		
1080	623.0200	Dust Control Surface Treatment	SY	277,476.000	271,996.000		5,480.000
1090	625.0100	Topsoil	SY	2,568.000	2,181.000		387.000
1100	625.0105	Topsoil	CY	21.000	21.000		
1110	628.1504	Silt Fence	LF	1,200.000	1,200.000		
1120	628.1520	Silt Fence Maintenance	LF	1,200.000	1,200.000		
1130	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000		
1140	628.1910	Mobilizations Emergency Erosion Control	EACH	12.000	12.000		
1150	628.7005	Inlet Protection Type A	EACH	315.000	299.000		16.000
1160	628.7010	Inlet Protection Type B	EACH	20.000	20.000		
1170	628.7015	Inlet Protection Type C	EACH	265.000	249.000		16.000
1180	628.7560	Tracking Pads	EACH	10.000	10.000		
1190	632.0101	Trees (species) (size) (root) 001. Common Hackberry 3" Cal B&B	EACH	5.000	5.000		
1200	632.0101	Trees (species) (size) (root) 002. Discovery Elm 3" Cal B&B	EACH	19.000	19.000		
1210	632.0101	Trees (species) (size) (root) 003. Harvest Gold Linden 3" Cal B&B	EACH	32.000	32.000		
1220	632.0101	Trees (species) (size) (root) 004. Ivory Silk Lilac Tree 2" Cal B&B	EACH	99.000	99.000		
1230	632.0101	Trees (species) (size) (root) 005. Northern Acclaim Honeylocust 3" Cal B&B	EACH	77.000	77.000		
1240	632.0101	Trees (species) (size) (root) 006. Sienna Glen Maple 3" Cal B&B	EACH	43.000	43.000		
1250	632.0101	Trees (species) (size) (root) 007. Spring Snow Crabapple 2" Cal B&B	EACH	3.000	3.000		
1260	632.0101	Trees (species) (size) (root) 008. Prairie Rose Crabapple 2" Cal B&B	EACH	5.000	5.000		
1270	632.0201	Shrubs (species) (size) (root) 001. Alpine Spirea #3 CG	EACH	267.000	267.000		
1280	632.0201	Shrubs (species) (size) (root) 002. Cranberry Cotoneaster #3 CG	EACH	136.000	136.000		
1290	632.0201	Shrubs (species) (size) (root) 003. Dakota Goldcharm Spirea #3 CG	EACH	357.000	357.000		
1300	632.0201	Shrubs (species) (size) (root) 004. Little Princess Spirea #3 CG	EACH	92.000	92.000		
1310	632.0201	Shrubs (species) (size) (root) 005. Prairie Petite Lilac #3	EACH	520.000	520.000		

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Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
		CG					
1320	632.0201	Shrubs (species) (size) (root) 006. Blue Forest Juniper #3 CG	EACH	50.000	50.000		
1330	632.0201	Shrubs (species) (size) (root) 007. Dwarf Norway Spruce #3 CG	EACH	22.000	22.000		
1340	632.0201	Shrubs (species) (size) (root) 008. Valley Cushion Pine #3 CG	EACH	805.000	805.000		
1350	632.0201	Shrubs (species) (size) (root) 009. Sherwood Compact Spruce #15 CG	EACH	3.000	3.000		
1360	632.0201	Shrubs (species) (size) (root) 010.Abbotswood Potentilla	EACH	43.000	43.000		
1370	632.0201	Shrubs (species) (size) (root) 011. Goldfinger Potentilla	EACH	42.000	42.000		
1380	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	20.000	20.000		
1390	633.5200	Markers Culvert End	EACH	5.000	5.000		
1400	637.2210	Signs Type II Reflective H	SF	1,276.720	1,276.720		
1410	637.2215	Signs Type II Reflective H Folding	SF	227.520	227.520		
1420	637.2230	Signs Type II Reflective F	SF	192.390	192.390		
1430	638.2102	Moving Signs Type II	EACH	9.000	9.000		
1440	638.2602	Removing Signs Type II	EACH	218.000	218.000		
1450	638.3000	Removing Small Sign Supports	EACH	111.000	111.000		
1460	642.5401	Field Office Type D	EACH	1.000	1.000		
1470	643.0200.S	Traffic Control Surveillance and Maintenance (project) 001. 8680-00-71	DAY	367.000	367.000		
1480	643.0300	Traffic Control Drums	DAY	57,311.000	57,311.000		
1490	643.0410	Traffic Control Barricades Type II	DAY	4,880.000	4,880.000		
1500	643.0420	Traffic Control Barricades Type III	DAY	34,337.000	34,337.000		
1510	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	706.000	706.000		
1520	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	706.000	706.000		
1530	643.0705	Traffic Control Warning Lights Type A	DAY	68,674.000	68,674.000		
1540	643.0715	Traffic Control Warning Lights Type C	DAY	10,364.000	10,364.000		
1550	643.0900	Traffic Control Signs	DAY	41,134.000	41,134.000		
1560	643.0920	Traffic Control Covering Signs Type II	EACH	44.000	44.000		
1570	643.1000	Traffic Control Signs Fixed Message	SF	472.000	472.000		
1580	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	762.000	762.000		
1590	643.2000	Traffic Control Detour (project) 001. 8680-00-71	EACH	1.000	1.000		
1600	643.3000	Traffic Control Detour Signs	DAY	102,760.000	102,760.000		
1610	645.0111	Geotextile Type DF Schedule A	SY	11,486.000	10,903.000	583.000	
1620	645.0120	Geotextile Type HR	SY	10.000	10.000		
1630	646.0106	Pavement Marking Epoxy 4-Inch	LF	100,986.000	99,044.000	1,942.000	
1640	646.0126	Pavement Marking Epoxy 8-Inch	LF	4,879.000	4,510.000	369.000	

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Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
1650	646.0600	Removing Pavement Markings	LF	4,837.000	4,837.000		
1660	647.0110	Pavement Marking Railroad Crossings Epoxy	EACH	4.000	4.000		
1670	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	9.000	7.000		2.000
1680	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	69.000	65.000		4.000
1690	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	9.000	9.000		
1700	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	28.000	28.000		
1710	647.0256	Pavement Marking Symbols Epoxy	EACH	11.000	11.000		
1720	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	28.000	28.000		
1730	647.0336	Pavement Marking Symbols Bike Shared Lane Epoxy	EACH	42.000	42.000		
1740	647.0356	Pavement Marking Words Epoxy	EACH	16.000	16.000		
1750	647.0456	Pavement Marking Curb Epoxy	LF	198.000	198.000		
1760	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	1,175.000	1,175.000		
1770	647.0606	Pavement Marking Island Nose Epoxy	EACH	22.000	22.000		
1780	647.0656	Pavement Marking Parking Stall Epoxy	LF	3,195.000	3,070.000		125.000
1790	647.0706	Pavement Marking Diagonal Epoxy 6-Inch	LF	1,417.000	1,417.000		
1800	647.0773	Pavement Marking Crosswalk Paint 12-Inch	LF	40.000	40.000		
1810	647.0799	Pavement Marking Crosswalk Preformed Plastic 24-Inch	LF	6,080.000	6,080.000		
1820	647.0955	Removing Pavement Markings Arrows	EACH	7.000	7.000		
1830	647.0965	Removing Pavement Markings Words	EACH	7.000	7.000		
1840	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	58,670.000	58,670.000		
1850	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	19,159.000	19,159.000		
1860	649.0600	Temporary Pavement Marking Removable Tape 6-Inch	LF	752.000	752.000		
1870	650.4000	Construction Staking Storm Sewer	EACH	298.000	282.000		16.000
1880	650.4500	Construction Staking Subgrade	LF	24,538.000	23,178.000		1,360.000
1890	650.5000	Construction Staking Base	LF	4,145.000	3,948.000		197.000
1900	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	31,028.000	29,730.000		1,298.000
1910	650.7000	Construction Staking Concrete Pavement	LF	8,124.000	7,641.000		483.000
1920	650.8500	Construction Staking Electrical Installations (project) 001. 8680-00-71	LS	1.000	1.000		
1930	650.9910	Construction Staking Supplemental Control (project) 001. 8680-00-71	LS	1.000	1.000		
1940	652.0205	Conduit Rigid Nonmetallic Schedule 40 3/4-Inch	LF	29.000	29.000		
1950	652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	LF	258.000	258.000		
1960	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	26,919.000	25,436.000		1,483.000
1970	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	5,546.000	5,450.000		96.000
1980	652.0605	Conduit Special 2-Inch	LF	2,341.000	2,291.000		50.000
1990	652.0615	Conduit Special 3-Inch	LF	1,928.000	1,928.000		
2000	653.0140	Pull Boxes Steel 24x42-Inch	EACH	71.000	71.000		
2010	653.0145	Pull Boxes Steel 24x48-Inch	EACH	31.000	31.000		

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Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
2020	653.0905	Removing Pull Boxes	EACH	65.000	65.000		
2030	654.0101	Concrete Bases Type 1	EACH	40.000	40.000		
2040	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	7.000	7.000		
2050	655.0230	Cable Traffic Signal 5-14 AWG	LF	3,730.000	3,730.000		
2060	655.0240	Cable Traffic Signal 7-14 AWG	LF	2,965.000	2,965.000		
2070	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,754.000	1,754.000		
2080	655.0270	Cable Traffic Signal 15-14 AWG	LF	9,614.000	9,614.000		
2090	655.0320	Cable Type UF 2-10 AWG Grounded	LF	4,468.000	4,468.000		
2100	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	9,057.000	9,057.000		
2110	655.0610	Electrical Wire Lighting 12 AWG	LF	30,930.000	28,690.000		2,240.000
2120	655.0615	Electrical Wire Lighting 10 AWG	LF	3,786.000	3,786.000		
2130	655.0620	Electrical Wire Lighting 8 AWG	LF	6,994.000	6,430.000		564.000
2140	655.0625	Electrical Wire Lighting 6 AWG	LF	78,195.000	69,006.000		9,189.000
2150	655.0630	Electrical Wire Lighting 4 AWG	LF	78,195.000	69,006.000		9,189.000
2160	655.0900	Traffic Signal EVP Detector Cable	LF	7,541.000	7,541.000		
2170	656.0200	Electrical Service Meter Breaker Pedestal (location) 001. Signals US 2 Belknap St & Banks Ave	LS	1.000	1.000		
2180	656.0200	Electrical Service Meter Breaker Pedestal (location) 002. Signals US 2 Belknap St & STH 35 Tower Ave	LS	1.000	1.000		
2190	656.0200	Electrical Service Meter Breaker Pedestal (location) 003. Signals US 2 Belknap St & Ogden Ave	LS	1.000	1.000		
2200	656.0200	Electrical Service Meter Breaker Pedestal (location) 004. Signals US 2 Belknap St & Hammond Ave	LS	1.000	1.000		
2210	656.0200	Electrical Service Meter Breaker Pedestal (location) 005. Signals US 2 Belknap St & Grand Ave	LS	1.000	1.000		
2220	656.0200	Electrical Service Meter Breaker Pedestal (location) 006. Signals US 2 Belknap St & Catlin Ave	LS	1.000	1.000		
2230	656.0200	Electrical Service Meter Breaker Pedestal (location) 007. Signals US 2 & Hill Ave	LS	1.000	1.000		
2240	656.0200	Electrical Service Meter Breaker Pedestal (location) 008. Lighting US 2 Belknap St & Ogden Ave	LS	1.000	1.000		
2250	656.0200	Electrical Service Meter Breaker Pedestal (location) 009. US 2 (Belknap St) & Hammond Ave Lighting	LS	1.000		1.000	
2260	656.0200	Electrical Service Meter Breaker Pedestal (location) 010. US 2 (Belknap St) & STH 35 Grand Ave South Lighting	LS	1.000		1.000	
2270	656.0200	Electrical Service Meter Breaker Pedestal (location) 011. Lighting US 2 Belknap St & Mortorelli Drive	LS	1.000	1.000		
2280	656.0200	Electrical Service Meter Breaker Pedestal (location) 012. Lighting US 2 Belknap St & STH 35 Elm Ave	LS	1.000	1.000		
2290	657.0100	Pedestal Bases	EACH	40.000	40.000		
2300	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	3.000	3.000		

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Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
2310	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	33.000	33.000		
2320	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	4.000	4.000		
2330	658.0110	Traffic Signal Face 3-12 Inch Vertical	EACH	84.000	84.000		
2340	658.0115	Traffic Signal Face 4-12 Inch Vertical	EACH	53.000	53.000		
2350	658.0215	Backplates Signal Face 3 Section 12-Inch	EACH	84.000	84.000		
2360	658.0220	Backplates Signal Face 4 Section 12-Inch	EACH	53.000	53.000		
2370	658.0416	Pedestrian Signal Face 16-Inch	EACH	59.000	59.000		
2380	658.0600	Led Modules 12-Inch Red Ball	EACH	84.000	84.000		
2390	658.0605	Led Modules 12-Inch Yellow Ball	EACH	84.000	84.000		
2400	658.0610	Led Modules 12-Inch Green Ball	EACH	84.000	84.000		
2410	658.0615	Led Modules 12-Inch Red Arrow	EACH	53.000	53.000		
2420	658.0620	Led Modules 12-Inch Yellow Arrow	EACH	103.000	103.000		
2430	658.0625	Led Modules 12-Inch Green Arrow	EACH	53.000	53.000		
2440	658.0635	Led Modules Pedestrian Countdown Timer 16-Inch	EACH	50.000	50.000		
2450	658.5069	Signal Mounting Hardware (location) 001. US 2 (Belknap St) & Banks Ave	LS	1.000	1.000		
2460	658.5069	Signal Mounting Hardware (location) 002. US 2 (Belknap St) & STH 35 (Tower Ave)	LS	1.000	1.000		
2470	658.5069	Signal Mounting Hardware (location) 003. US 2 (Belknap St) & Ogden Ave	LS	1.000	1.000		
2480	658.5069	Signal Mounting Hardware (location) 004. US 2 (Belknap St) & Hammond Ave	LS	1.000	1.000		
2490	658.5069	Signal Mounting Hardware (location) 005. US 2 (Belknap St) & Grand Ave	LS	1.000	1.000		
2500	658.5069	Signal Mounting Hardware (location) 006. US 2 (Belknap St) & Catlin Ave	LS	1.000	1.000		
2510	658.5069	Signal Mounting Hardware (location) 007. US 2 & Hill Ave	LS	1.000	1.000		
2520	659.1120	Luminaires Utility LED B	EACH	28.000	28.000		
2530	661.0200	Temporary Traffic Signals for Intersections (location) 001. US 2 (Belknap St) & Banks Ave	LS	1.000	1.000		
2540	661.0200	Temporary Traffic Signals for Intersections (location) 002. US 2 (Belknap St) & STH 35 (Tower Ave)	LS	1.000	1.000		
2550	661.0200	Temporary Traffic Signals for Intersections (location) 003. US 2 (Belknap St) & Ogden Ave	LS	1.000	1.000		
2560	661.0200	Temporary Traffic Signals for Intersections (location) 004. US 2 (Belknap St) & Hammond Ave	LS	1.000	1.000		
2570	661.0200	Temporary Traffic Signals for Intersections (location) 005. US 2 (Belknap St) & Grand Ave	LS	1.000	1.000		
2580	661.0200	Temporary Traffic Signals for Intersections (location) 006. US 2 (Belknap St) & Catlin Ave	LS	1.000	1.000		
2590	661.0200	Temporary Traffic Signals for Intersections (location)	LS	1.000	1.000		

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Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
		007. US 2 & Hill Ave					
2600	661.0300	Generators	DAY	14.000	14.000		
2610	670.0100	Field System Integrator	LS	1.000	1.000		
2620	670.0200	ITS Documentation	LS	1.000	1.000		
2630	673.0105	Communication Vault Type 1	EACH	8.000	8.000		
2640	678.0200	Fiber Optic Splice Enclosure	EACH	10.000	10.000		
2650	678.0300	Fiber Optic Splice	EACH	84.000	84.000		
2660	678.0500	Communication System Testing	LS	1.000	1.000		
2670	690.0150	Sawing Asphalt	LF	4,839.000	4,516.000		323.000
2680	690.0250	Sawing Concrete	LF	152,083.000	146,003.000		6,080.000
2690	999.1500.S	Crack and Damage Survey	LS	1.000	1.000		
2700	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000		
2710	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,400.000	2,400.000		
2720	SPV.0035	Special 001. Flowable Fill	CY	135.000	133.000		2.000
2730	SPV.0045	Special 002. Seismograph/Vibration Monitoring	DAY	500.000	500.000		
2740	SPV.0060	Special 001. Concrete Bases Type 10, Contractor Supplied Anchor Bolts & Rod Template	EACH	11.000	11.000		
2750	SPV.0060	Special 002. Concrete Bases Type 10 Special Contractor Supplied Anchor Bolts & Rod Temp	EACH	13.000	13.000		
2760	SPV.0060	Special 003. Concrete Bases Type 13 Contractor Supplied Anchor Bolts & Rod Template	EACH	4.000	4.000		
2770	SPV.0060	Special 004. Poles Type 10	EACH	11.000	11.000		
2780	SPV.0060	Special 005. Poles Type 13	EACH	4.000	4.000		
2790	SPV.0060	Special 006. Poles Type 13 Special	EACH	13.000	13.000		
2800	SPV.0060	Special 007. Monotube Arms 20-ft	EACH	3.000	3.000		
2810	SPV.0060	Special 008. Monotube Arms 25-Ft	EACH	3.000	3.000		
2820	SPV.0060	Special 009. Monotube Arms 30-ft	EACH	6.000	6.000		
2830	SPV.0060	Special 010. Monotube Arms 35-ft	EACH	2.000	2.000		
2840	SPV.0060	Special 011. Monotube Arms 40-ft	EACH	13.000	13.000		
2850	SPV.0060	Special 012. Monotube Arms 45-ft	EACH	2.000	2.000		
2860	SPV.0060	Special 013. Luminaire Arms Steel 8-foot	EACH	28.000	28.000		
2870	SPV.0060	Special 014. APS Pedestrian Push Buttons	EACH	56.000	56.000		
2880	SPV.0060	Special 015. EVP Detector Type 1	EACH	28.000	28.000		
2890	SPV.0060	Special 016. EVP Discriminator Type IV	EACH	7.000	7.000		
2900	SPV.0060	Special 017. Ethernet Switch	EACH	8.000	8.000		
2910	SPV.0060	Special 018. Wall-Mountable Interconnect Center	EACH	1.000	1.000		
2920	SPV.0060	Special 020. Salvage Lighting Unit	EACH	76.000	74.000		2.000
2930	SPV.0060	Special 021. Lighting Unit Type Special 1	EACH	149.000	135.000		14.000
2940	SPV.0060	Special 022. Lighting Unit Type Special 2	EACH	36.000	34.000		2.000
2950	SPV.0060	Special 023. Concrete Bases Type Special	EACH	179.000	161.000		18.000

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Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
2960	SPV.0060	Special 024. Lighting Control Cabinet Base Type Special	EACH	5.000	3.000		2.000
2970	SPV.0060	Special 025. Lighting Control Cabinet Type Special	EACH	5.000	3.000		2.000
2980	SPV.0060	Special 026. Lighting Unit Type Special 3	EACH	2.000	2.000		
2990	SPV.0060	Special 027. Install Salvaged Lighting Unit	EACH	2.000			2.000
3000	SPV.0060	Special 028. Remove Luminaire	EACH	2.000	2.000		
3010	SPV.0060	Special 029. Manholes 10-ft Diameter	EACH	11.000	11.000		
3020	SPV.0060	Special 030. Inlet Covers Type H-D	EACH	17.000	17.000		
3030	SPV.0060	Special 031. Inlets 5-ft Diameter	EACH	16.000	16.000		
3040	SPV.0060	Special 032. Inlets 6-ft Diameter	EACH	8.000	8.000		
3050	SPV.0060	Special 033. Inlets 7-ft Diameter	EACH	7.000	7.000		
3060	SPV.0060	Special 034. Inlets 8-ft Diameter	EACH	4.000	4.000		
3070	SPV.0060	Special 035. Inlets 10-ft Diameter	EACH	1.000	1.000		
3080	SPV.0060	Special 037. Temporary Connection To Existing Storm Sewer Pipe	EACH	10.000	10.000		
3090	SPV.0060	Special 039. Low Permeable Plug	EACH	2.000	2.000		
3100	SPV.0060	Special 040. Removing Sanitary Manholes	EACH	1.000	1.000		
3110	SPV.0060	Special 041. Sanitary Sewer Casting	EACH	3.000	3.000		
3120	SPV.0060	Special 042. Connect to ExistingSanitary Service	EACH	3.000	3.000		
3130	SPV.0060	Special 043. Connect to Existing Sanitary Main, 18-Inch	EACH	1.000	1.000		
3140	SPV.0060	Special 044. Connect to Existing Sanitary Main, 20x30-Inch	EACH	1.000	1.000		
3150	SPV.0060	Special 045. Connect to Existing Sanitary Main, 72-Inch	EACH	2.000	2.000		
3160	SPV.0060	Special 046. Connect to ExistingSanitary Manhole	EACH	1.000	1.000		
3170	SPV.0060	Special 047. Construction Staking Sanitary Sewer	EACH	3.000	3.000		
3180	SPV.0060	Special 048. Adjust Sanitary Manhole Covers	EACH	11.000	11.000		
3190	SPV.0060	Special 050. Remove Water Valve	EACH	16.000		16.000	
3200	SPV.0060	Special 051. Remove Water Valve Box	EACH	9.000		9.000	
3210	SPV.0060	Special 052. Remove Curb Stop	EACH	52.000		52.000	
3220	SPV.0060	Special 053. Remove Curb Stop Box	EACH	37.000		37.000	
3230	SPV.0060	Special 054. Remove Hydrant	EACH	28.000		28.000	
3240	SPV.0060	Special 055. Remove or Abandon Valve Vault	EACH	14.000		14.000	
3250	SPV.0060	Special 056. Hydrant Assembly	EACH	24.000		24.000	
3260	SPV.0060	Special 057. Tapping Tee with Electrofusion Saddle, 1-Inch	EACH	59.000		59.000	
3270	SPV.0060	Special 058. Tapping Tee with Electrofusion Saddle, 1.25-Inch	EACH	5.000		5.000	
3280	SPV.0060	Special 059. Tapping Tee with Electrofusion Saddle, 1.5-Inch	EACH	3.000		3.000	
3290	SPV.0060	Special 060. Tapping Tee with Electrofusion Saddle, 2-Inch	EACH	1.000		1.000	

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Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
3300	SPV.0060	Special 061. Curb Stop and Box, 1-inch	EACH	75.000		75.000	
3310	SPV.0060	Special 062. Curb Stop and Box, 1.25-inch	EACH	6.000		6.000	
3320	SPV.0060	Special 063. Curb Stop and Box, 1.5-inch	EACH	4.000		4.000	
3330	SPV.0060	Special 064. Curb Stop and Box, 2-inch	EACH	4.000		4.000	
3340	SPV.0060	Special 065. Gate Valve & Box 6-inch	EACH	6.000		6.000	
3350	SPV.0060	Special 066. Gate Valve & Box 8-inch	EACH	1.000		1.000	
3360	SPV.0060	Special 067. Gate Valve & Box 12-inch	EACH	19.000		19.000	
3370	SPV.0060	Special 068. Connect to Existing Water Main	EACH	32.000		32.000	
3380	SPV.0060	Special 069. Connect to Existing Water Service	EACH	97.000		97.000	
3390	SPV.0060	Special 070. Water Excavation Area, Water Main	EACH	18.000		18.000	
3400	SPV.0060	Special 071. Water Excavation Area, Service Smaller than 2-Inches	EACH	41.000		41.000	
3410	SPV.0060	Special 072. Water Excavation Area, Service Larger than 2-Inches	EACH	1.000		1.000	
3420	SPV.0060	Special 073. Construct Outside Drop	EACH	1.000	1.000		
3430	SPV.0060	Special 074. Core Drilling	EACH	2.000	2.000		
3440	SPV.0060	Special 075. Bench	EACH	35.000	35.000		
3450	SPV.0060	Special 076. Trash Receptacle	EACH	30.000	30.000		
3460	SPV.0060	Special 077. Bike Rack	EACH	25.000	25.000		
3470	SPV.0060	Special 078. Feather Reed Grass #1 CG	EACH	1,436.000	1,436.000		
3480	SPV.0060	Special 079. Bollard	EACH	41.000	41.000		
3490	SPV.0060	Special 080. Street Sign Bracket	EACH	66.000	66.000		
3500	SPV.0060	Special 081. Entry Column	EACH	14.000	14.000		
3510	SPV.0060	Special 082. Fence Column	EACH	84.000	84.000		
3520	SPV.0060	Special 083. Protecting Trees	EACH	10.000	9.000		1.000
3530	SPV.0060	Special 084. Vault Abandonment & Stabilization Station 150+50 LT	EACH	1.000	1.000		
3540	SPV.0060	Special 085. Vault Abandonment & Stabilization Station 151+60 LT	EACH	1.000	1.000		
3550	SPV.0060	Special 086. Temporary Pedestrian Access - Isolated	EACH	48.000	48.000		
3560	SPV.0060	Special 090. Exploratory Excavation	EACH	10.000	8.000		2.000
3570	SPV.0060	Special 091. Utility Line Opening (ULO)	EACH	60.000	60.000		
3580	SPV.0060	Special 092. Sign Post, Black, 8-ft	EACH	7.000	7.000		
3590	SPV.0060	Special 093. Sign Post, Black, 9.5-ft	EACH	24.000	24.000		
3600	SPV.0060	Special 094. Sign Post, Black,11-ft	EACH	60.000	60.000		
3610	SPV.0060	Special 095. Sign Post, Black, 12-ft	EACH	25.000	25.000		
3620	SPV.0060	Special 096. Corporation Stop, 1-Inch	EACH	16.000		16.000	
3630	SPV.0060	Special 097. Corporation Stop, 1.25-Inch	EACH	1.000		1.000	
3640	SPV.0060	Special 098. Corporation Stop, 1.5-Inch	EACH	1.000		1.000	
3650	SPV.0060	Special 099. Corporation Stop, 2-Inch	EACH	3.000		3.000	
3660	SPV.0075	Special 001. Street Sweeping	HRS	344.000	344.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
3670	SPV.0075	Special 002. Construction Equipment Test Zone	HRS	24.000	24.000		
3680	SPV.0090	Special 001. Dielectric 12-Count Fiber Optic Cable	LF	9,565.000	9,565.000		
3690	SPV.0090	Special 002. Schedule 40 PVC Pipe Perforated 6-Inch	LF	4,913.000	4,913.000		
3700	SPV.0090	Special 003. Schedule 80 PVC Peforated 8-inch	LF	10.000	10.000		
3710	SPV.0090	Special 005. Removing Sanitary Sewer Pipe 4-Inch to 30-Inch	LF	304.000	304.000		
3720	SPV.0090	Special 006. Removing Sanitary Sewer Pipe, 72-Inch	LF	118.000	118.000		
3730	SPV.0090	Special 007. Sanitary Manhole, 48-Inch	LF	12.800	12.800		
3740	SPV.0090	Special 008. Sanitary Manhole, 120-Inch	LF	20.500	20.500		
3750	SPV.0090	Special 009. Sanitary Sewer Service 6-Inch	LF	102.000	102.000		
3760	SPV.0090	Special 010. Sanitary Sewer Main 18-Inch	LF	8.000	8.000		
3770	SPV.0090	Special 011. Sanitary Sewer Main 24-Inch	LF	194.000	194.000		
3780	SPV.0090	Special 012. Sanitary Sewer Main RCHorizontal Elliptical Class HE-III 58x91-Inch	LF	118.000	118.000		
3790	SPV.0090	Special 013. Sewer Field Quality Control - Deflection Test	LF	202.000	202.000		
3800	SPV.0090	Special 014. Sewer Field Quality Control - Televising	LF	320.000	320.000		
3810	SPV.0090	Special 015. PVC Pipe 4-Inch	LF	10.000	10.000		
3820	SPV.0090	Special 016. PVC Pipe 6-Inch	LF	11.000	6.000	5.000	
3830	SPV.0090	Special 017. PVC Pipe 8-Inch	LF	5.000	5.000		
3840	SPV.0090	Special 018. PVC Pipe 10-Inch	LF	5.000	5.000		
3850	SPV.0090	Special 020. Concrete Curb and Gutter Cure and Seal Treatment	LF	31,028.000	29,730.000	1,298.000	
3860	SPV.0090	Special 021. Concrete Cure and Seal PCC Saw Cuts	LF	59,180.000	58,500.000	680.000	
3870	SPV.0090	Special 022. Concrete Curb and Gutter 18-Inch Type G Special	LF	483.000	483.000		
3880	SPV.0090	Special 023. Concrete Curb and Gutter 30-Inch Type A Special	LF	14,963.000	14,963.000		
3890	SPV.0090	Special 024. Concrete Curb and Gutter 18-Inch Type D Special	LF	94.000	94.000		
3900	SPV.0090	Special 025. Concrete Curb and Gutter 30-Inch Type D Special	LF	72.000	72.000		
3910	SPV.0090	Special 026. Concrete Curb and Gutter 18-Inch Type A Special	LF	328.000	328.000		
3920	SPV.0090	Special 027. Concrete Curb & Gutter 30 Inch Type A HES Special	LF	1,384.000	1,255.000	129.000	
3930	SPV.0090	Special 028. Concrete Curb & Gutter 30 Inch Type D HES	LF	1,408.000	1,354.000	54.000	
3940	SPV.0090	Special 040. Steel Landscape Edging	LF	3,691.500	3,691.500		
3950	SPV.0090	Special 041. Concrete Wall	LF	163.000	163.000		
3960	SPV.0090	Special 042. Concrete Sign Wall Foundation	LF	261.000	261.000		
3970	SPV.0090	Special 043. Hill Avenue Screen Walls	LF	136.020	136.020		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
3980	SPV.0090	Special 044. Landscape Edging Flush	LF	1,143.000	1,143.000		
3990	SPV.0090	Special 045. Landscape Edging Raised	LF	41.000	41.000		
4000	SPV.0090	Special 047. Ornamental Fence	LF	1,513.000	1,513.000		
4010	SPV.0090	Special 050. Remove or Abandon Water Main	LF	13,012.000		13,012.000	
4020	SPV.0090	Special 051. Water Main and Fittings 8-inch HDPE DR-11	LF	3,348.000		3,348.000	
4030	SPV.0090	Special 052. Water Main and Fittings, 12-inch HDPE DR-11	LF	7,045.000		7,045.000	
4040	SPV.0090	Special 053. Water Service, 1-inch HDPE	LF	2,800.000		2,800.000	
4050	SPV.0090	Special 054. Water Service, 1.25-inch HDPE	LF	237.000		237.000	
4060	SPV.0090	Special 055. Water Service, 1.5-inch HDPE	LF	132.000		132.000	
4070	SPV.0090	Special 056. Water Service, 2-inch HDPE	LF	27.000		27.000	
4080	SPV.0090	Special 057. Water Service, 6-inch HDPE	LF	265.000		265.000	
4090	SPV.0090	Special 058. Water Service, 12-inch HDPE	LF	41.000		41.000	
4100	SPV.0090	Special 059. Steel Casing Pipe, 24-inch (Jacked)	LF	50.000		50.000	
4110	SPV.0090	Special 060. Water Service, 1-inch Copper	LF	725.000		725.000	
4120	SPV.0090	Special 061. Water Service, 1.25-inch Copper	LF	46.000		46.000	
4130	SPV.0090	Special 062. Water Service, 1.5-inch Copper	LF	38.000		38.000	
4140	SPV.0090	Special 063. Water Service, 2-inch Copper	LF	126.000		126.000	
4150	SPV.0090	Special 064. Water Service, 6-inch DI CL 52	LF	29.000		29.000	
4160	SPV.0090	Special 065. Water Main and Fittings, 8-inch DI CL 52	LF	1,244.000		1,244.000	
4170	SPV.0090	Special 066. Water Main and Fittings, 12-inch DI CL 52	LF	1,059.000		1,059.000	
4180	SPV.0105	Special 001. Remove Traffic Signals US 2 (Belknap St) & Banks Ave	LS	1.000	1.000		
4190	SPV.0105	Special 002. Remove Traffic Signals US 2 (Belknap St) & Tower Ave	LS	1.000	1.000		
4200	SPV.0105	Special 003. Remove Traffic Signals US 2 (Belknap St) & Ogden Ave	LS	1.000	1.000		
4210	SPV.0105	Special 004. Remove Traffic Signals US 2 (Belknap St) & Hammond Ave	LS	1.000	1.000		
4220	SPV.0105	Special 005. Remove Traffic Signals US 2 (Belknap St) & Grand Ave	LS	1.000	1.000		
4230	SPV.0105	Special 006. Remove Traffic Signals US 2 (Belknap St) & Catlin Ave	LS	1.000	1.000		
4240	SPV.0105	Special 007. Remove Traffic Signals USH 2 (Belknap St) & Hill Ave	LS	1.000	1.000		
4250	SPV.0105	Special 008. Remove Traffic Signals US 2 (Belknap St) & Baxter Ave	LS	1.000	1.000		
4260	SPV.0105	Special 009. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Banks Ave	LS	1.000	1.000		
4270	SPV.0105	Special 010. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Tower Ave	LS	1.000	1.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
4280	SPV.0105	Special 011. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Ogden Ave	LS	1.000	1.000		
4290	SPV.0105	Special 012. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Hammond Ave	LS	1.000	1.000		
4300	SPV.0105	Special 013. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Grand Ave	LS	1.000	1.000		
4310	SPV.0105	Special 014. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Catlin Ave	LS	1.000	1.000		
4320	SPV.0105	Special 015. Remove Loop Detector Wire and Lead-in Cable US 2 Belknap St & Hill Ave	LS	1.000	1.000		
4330	SPV.0105	Special 016. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Banks Avenue	LS	1.000	1.000		
4340	SPV.0105	Special 017. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Tower Avenue	LS	1.000	1.000		
4350	SPV.0105	Special 018. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Ogden Avenue	LS	1.000	1.000		
4360	SPV.0105	Special 019. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Hammond Ave	LS	1.000	1.000		
4370	SPV.0105	Special 020. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Grand Ave	LS	1.000	1.000		
4380	SPV.0105	Special 021. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Catlin Ave	LS	1.000	1.000		
4390	SPV.0105	Special 022. Traffic Signal Controller & Cabinet US 2 (Belknap St) & Hill Ave	LS	1.000	1.000		
4400	SPV.0105	Special 023. Video Vehicle Detection System, US 2 (Belknap St) & Banks Ave	LS	1.000	1.000		
4410	SPV.0105	Special 024. Video Vehicle Detection System, US 2 (Belknap St) & Tower Ave	LS	1.000	1.000		
4420	SPV.0105	Special 025. Video Vehicle Detection System, US 2 (Belknap St) & Ogden Ave	LS	1.000	1.000		
4430	SPV.0105	Special 026. Video Vehicle Detection System, US 2 (Belknap St) & Hammond Ave	LS	1.000	1.000		
4440	SPV.0105	Special 027. Video Vehicle Detection System, US 2 (Belknap St) & Grand Ave	LS	1.000	1.000		
4450	SPV.0105	Special 028. Video Vehicle Detection System, US 2 (Belknap St) & Catlin Ave	LS	1.000	1.000		
4460	SPV.0105	Special 029. Video Vehicle Detection System, USH 2 (Belknap St) & Hill Ave	LS	1.000	1.000		
4470	SPV.0105	Special 030. RRFB System US 2 (Belknap St) & Hughitt	LS	1.000	1.000		
4480	SPV.0105	Special 031. RRFB System US 2 (Belknap St) & Baxter	LS	1.000	1.000		
4490	SPV.0105	Special 032. RRFB System US 2 (Belknap St) & Pil Lut	LS	1.000	1.000		
4500	SPV.0105	Special 033. RRFB System US 2 (Belknap St) & Pine	LS	1.000	1.000		
4510	SPV.0105	Special 034. Fiber Optic Communications in Cabinet US	LS	1.000	1.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
		2 (Belknap St) & Banks Ave					
4520	SPV.0105	Special 035. Fiber Optic Communications in Cabinet US 2 (Belknap St) & STH 35 Tower Ave	LS	1.000	1.000		
4530	SPV.0105	Special 036. Fiber Optic Communications in Cabinet US 2 (Belknap St) & Ogden	LS	1.000	1.000		
4540	SPV.0105	Special 037. Fiber Optic Communications in Cabinet US 2 (Belknap St) & Hammond Ave	LS	1.000	1.000		
4550	SPV.0105	Special 038. Fiber Optic Communications in Cabinet US 2 (Belknap St) & Grand Ave	LS	1.000	1.000		
4560	SPV.0105	Special 039. Fiber Optic Communications in Cabinet US 2 (Belknap St) & Catlin Ave	LS	1.000	1.000		
4570	SPV.0105	Special 040. Fiber Optic Communications in Cabinet US 2 (Belknap St) & Hill Ave	LS	1.000	1.000		
4580	SPV.0105	Special 041. Temp Non-Intrusive Vehicle Detection Sys For Intersections US 2 Belknap St & Banks Ave	LS	1.000	1.000		
4590	SPV.0105	Special 042. Temp Non-Intrusive Vehicle Detection Sys For Intersections US 2 Belknap St & STH 35 Tower Ave	LS	1.000	1.000		
4600	SPV.0105	Special 043. Temp Non-Intrusive Vehicle Detection Sys For Intersections US 2 Belknap St & Ogden Ave	LS	1.000	1.000		
4610	SPV.0105	Special 044. Temp Non-Intrusive Vehicle Detection Sys For Intersections US 2 Belknap St & Hammond Ave	LS	1.000	1.000		
4620	SPV.0105	Special 045. Temp Non-Intrusive Vehicle Detection Sys For Intersections US 2 Belknap St & Grand Ave	LS	1.000	1.000		
4630	SPV.0105	Special 046. Temp Non-Intrusive Vehicle Detection Sys For Intersections US 2 Belknap St & Catlin Ave	LS	1.000	1.000		
4640	SPV.0105	Special 047. Temp Non-Intrusive Vehicle Detection Sys For Intersection US 2 Belknap St & Hill Ave	LS	1.000	1.000		
4650	SPV.0105	Special 050. Temporary Water Service	LS	1.000		1.000	
4660	SPV.0105	Special 051. Construction Staking Water Main	LS	1.000		1.000	
4670	SPV.0105	Special 052. Construction Staking Storm Water Basin	LS	1.000	1.000		
4680	SPV.0105	Special 054. Construction Staking Landscaping	LS	1.000	1.000		
4690	SPV.0105	Special 060. Construction Staking Concrete Pavement Joint Layout	LS	1.000	1.000		
4700	SPV.0105	Special 061. Project Concrete Crack Mitigation and Repair Special	LS	1.000	1.000		
4710	SPV.0105	Special 070. Installing Temp Lighting System	LS	1.000	1.000		
4720	SPV.0105	Special 071. Remove and Reset Existing Compass	LS	1.000	1.000		
4730	SPV.0105	Special 072. UWS Entry Sign Wall	LS	1.000	1.000		
4740	SPV.0105	Special 073. Douglas County Sign	LS	1.000	1.000		
4750	SPV.0120	Special 001. Water For Seeded Areas	MGAL	6.000	6.000		
4760	SPV.0165	Special 001. Brush Pattern and Coloring of Concrete Sidewalk 6-Inch	SF	76,649.000	76,649.000		

					8680-00-71	8680-00-72	8998-00-24
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
4770	SPV.0165	Special 002. Cure and Seal Treatment Concrete Safety Islands	SF	110.000	110.000		
4780	SPV.0165	Special 003. Cure and Seal Treatment Concrete Sidewalk	SF	159,512.000	151,318.000		8,194.000
4790	SPV.0165	Special 004. Cure and Seal Treatment Concrete Curb Median	SF	1,146.000	1,146.000		
4800	SPV.0165	Special 005. Cure and Seal Treatment Patterned Concrete Sidewalk	SF	76,649.000	76,649.000		
4810	SPV.0165	Special 006. Temporary Pedestrian Access-Belknap	SF	78,740.000	78,740.000		
4820	SPV.0165	Special 007. Temporary Pedestrian Access - Intersection	SF	17,815.000	17,815.000		
4830	SPV.0165	Special 008. Concrete Sidewalk HES 6-Inch	SF	2,500.000	2,500.000		
4840	SPV.0165	Special 009. Concrete Curb Median 3-Inch Sloped	SF	1,146.000	1,146.000		
4850	SPV.0180	Special 001. Concrete Pavement 10-Inch Special	SY	53,060.000	53,060.000		
4860	SPV.0180	Special 002. Concrete Pavement 9-Inch Special	SY	2,577.000	686.000		1,891.000
4870	SPV.0180	Special 003. Hydroseeding	SY	2,568.000	2,181.000		387.000
4880	SPV.0195	Special 002. Over Excavation Hauling And Disposal Of Contaminated Soil	TON	773.000	773.000		
4890	SPV.0195	Special 003. Excavation, Hauling, and Disposal of Contaminated Soil	TON	24,405.000	21,164.000	2,966.000	275.000
4900	SPV.0195	Special 004. HMA Pavement 3 MT 58-28 H	TON	108.000	108.000		

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CLEARING

STATION	LOCATION	201.0120 ID	REMARKS
PROJECT 8680-00-71			
CAT 0010			
YEAR 1			
STA 138+85	Belknap St. 48' LT	12	Ash
STA 139+25	Belknap St. 48' LT	14	Ash
STA 139+60	Belknap St. 48' LT	18	Ash
STA 140+05	Belknap St. 56' LT	10	Flowering Crab
STA 187+84	Belknap St. 70' RT	10	Ash
STA 190+68	Belknap St. 47' LT	8	Flowering Crab
STA 471+00	Elm Ave. 35' RT	14	Maple
STA 202+05	Belknap St. 52' RT	14	Crabapple
STA 202+60	Belknap St. 52' RT	14	Crabapple
STA 203+18	Belknap St. 52' RT	16	Spruce
STA 203+55	Belknap St. 52' RT	4	Japanese Tree Lilac
STA 203+90	Belknap St. 52' RT	4	Japanese Tree Lilac
STA 204+20	Belknap St. 52' RT	8	Elm
STA 205+43	Belknap St. 51' RT	12	Crabapple
STA 205+93	Belknap St. 51' RT	7	Ash
STA 206+45	Belknap St. 53' RT	10	Crabapple
	CAT 0010 YEAR 1 TOTAL	175	

STATION	LOCATION	201.0120 ID	REMARKS
YEAR 2			
STA 301+10	John Ave. 35' RT	22	Ash
STA 311+00	John Ave. 23' LT	3	Linden
STA 157+00	Belknap St. 54' LT	10	Crabapple
STA 158+10	Belknap St. 70' LT	12	Crabapple
STA 158+25	Belknap St. 53' LT	12	Crabapple
STA 158+70	Belknap St. 53' LT	12	Crabapple
STA 158+85	Belknap St. 70' LT	12	Crabapple
STA 159+05	Belknap St. 53' LT	12	Crabapple
STA 159+50	Belknap St. 53' LT	12	Crabapple
STA 162+20	Belknap St. 63' LT	7	Crabapple
STA 162+65	Belknap St. 53' LT	7	Crabapple
STA 163+15	Belknap St. 46' LT	28	Maple
STA 174+90	Belknap St. 65' LT	4	Crabapple
STA 175+20	Belknap St. 65' LT	14	Ash
STA 176+55	Belknap St. 68' LT	8	Ash
STA 176+80	Belknap St. 46' LT	10	Hackberry
STA 177+05	Belknap St. 46' LT	10	Hackberry
STA 177+57	Belknap St. 46' LT	10	Hackberry
STA 177+80	Belknap St. 46' LT	10	Hackberry
STA 178+05	Belknap St. 46' LT	10	Hackberry
STA 178+31	Belknap St. 46' LT	10	Hackberry
STA 186+07	Belknap St. 73' RT	10	Ash
	CAT 0010 YEAR 2 TOTAL	245	
PROJECT 8680-00-71 CAT 0010 TOTAL		420	

STATION	LOCATION	201.0120 ID	REMARKS
PROJECT 8680-00-71			
CAT 0080			
YEAR 1			
STA 0+98	Banks Ave. 38' LT	8	Ash
STA 1+38	Banks Ave. 39' LT	8	Ash
STA 1+75	Banks Ave. 45' LT	8	Ash
STA 2+10	Banks Ave. 40' LT	8	Ash
STA 421+45	Birch Ave. 32' LT	24	Elm-Save if Possible
STA 468+35	Elm Ave. 30' LT	5	Arborvitae
STA 471+45	Elm Ave. 35' LT	16	Maple
STA 471+60	Elm Ave. 35' RT	14	Maple
	CAT 0080 YEAR 1 TOTAL	91	

CONT. CLEARING

STATION	LOCATION	201.0120 ID	REMARKS
YEAR 2			
STA 298+70	John Ave. 20' LT	12	Ash
STA 301+40	John Ave. 35' RT	24	Birch Clump
STA 311+32	John Ave. 22' RT	3	Linden
STA 340+94	Cumming Ave. 39' LT	8	Crabapple
STA 387+70	Clough Ave. 20' LT	24	Maple
STA 387+90	Clough Ave. 20' LT	24	Maple
STA 387+35	Clough Ave. 26' RT	4	Crabapple
STA 387+50	Clough Ave. 26' RT	4	Linden
	CAT 0080 YEAR 2 TOTAL	103	
ECT 8680-00-71 CAT 0080 TOTAL		194	
	PROJECT 8680-00-71 TOTAL	614	

STATION	LOCATION	201.0120 ID	REMARKS
PROJECT 8998-00-24			
CAT 0010			
YEAR 1			
STA 497+45 - STA 498+40	Hill Ave. 40' RT	10	3 Ash
	CAT 0010 YEAR 1 TOTAL	10	
YEAR 2			
STA 357+80 - STA 358+35	Lamborn Ave. 27' RT	100	25 Ash (~4in each)
STA 357+80 - STA 358+36	Lamborn Ave. 27' RT	40	2 Silver Maple (20in each)
	CAT 0010 YEAR 2 TOTAL	140	
	PROJECT 8998-00-24 TOTAL	150	

GRUBBING

STATION - STATION	LOCATION	201.0205 STA	REMARKS
Project 8680-00-71			
CAT 0010			
STAGE 1			
STA 147+00 - STA 148+00	Belknap St. RT	1	14 Shrubs
STA 185+00 - STA 186+00	Belknap St. RT	1	3x Juniper Shrub
STA 201+00 - STA 202+00	Belknap St. RT	1	3 Shrub
	CAT 0010 STAGE 1 TOTAL	3	

STATION - STATION	LOCATION	STA	REMARKS
STAGE 2			
STA 5+00 - STA 6+00	Banks Ave. RT	1	4x Arborvitae shrubs
STA 138+00 - STA 139+00	Belknap St. LT	1	arborvitae, 3 misc Shrubs, 8x juniper shrubs
STA 185+00 - STA 186+00	Belknap St. LT	1	arborvitae Shrub
STA 420+00 - STA 421+00	Belknap St. RT	1	5 Evergreen Shrubs, 4 Potentilla Shrubs
STA 187+00 - STA 188+00	Belknap St. LT	1	5 Shrubs/20+ perennials
STA 190+00 - STA 191+00	Belknap St. LT	1	20+ Shrubs
STA 450+00 - STA 451+00	Belknap St. LT	1	4 Shrubs
STA 196+00 - STA 197+00	Belknap St. LT	1	7 Shrubs,20+ Perennials
STA 198+00 - STA 200+00	Belknap St. LT	2	7 Arborvitea Shrubs/2 shrubs
STA 202+00 - STA 203+00	Belknap St. LT	1	2 Shrubs/8 perennials
	CAT 0010 STAGE 2 TOTAL	11	

STATION - STATION	LOCATION	STA	REMARKS
STAGE 4			
STA 161+00 - STA 163+00	Belknap St. LT	2	13x shrubs
STA 179+00 - STA 180+00	Belknap St. RT	1	3x Purpleleaf Sandcherry
STA 183+00 - STA 184+00	Belknap St. RT	1	4x Juniper Shrub
	CAT 0010 STAGE 4 TOTAL	4	

STATION - STATION	LOCATION	STA	REMARKS
STAGE 5			
STA 149+00 - STA 150+00	Belknap St. RT	1	4 Shrubs
STA 173+00 - STA 174+00	Belknap St. LT	1	Juniper Shrubs
STA 176+00 - STA 177+00	Belknap St. LT	1	Shrub Clump
STA 183+00 - STA 184+00	Belknap St. LT	1	6 Spirea shrubs
	CAT 0010 STAGE 5 TOTAL	4	

STATION - STATION	LOCATION	STA	REMARKS
STAGE 6			
STA 154+00 - STA 156+00	Belknap St. LT	1	Remove all shrubs in front of Hammond Pines
STA 330+00 - STA 331+00	Hammond Ave. LT	1	Remove 5 shrubs closest to Belknap
STA 166+00 - STA 167+00	Belknap St. LT	1	Mugo Pine
	CAT 0010 STAGE 6 TOTAL	3	
	PROJECT 8680-00-71 CAT 0010 TOTAL	25	

STATION - STATION	LOCATION	201.0205 STA	REMARKS
Project 8680-00-71			
CAT 0080			
STAGE 1			
STA 468+00 - STA 469+00	Elm Ave. LT	1	2 Arborvitae
	CAT 0080 STAGE 1 TOTAL	1	
STAGE 2			
STA 430+00 - STA 431+00	Cypress Ave. LT	1	5 Shrubs
	CAT 0080 STAGE 2 TOTAL	1	
STAGE 6			
STA 301+00 - STA 302+00	John Ave. RT	1	Lilac Hedge
	CAT 0080 STAGE 6 TOTAL	1	
	CAT 0080 TOTAL	3	
	PROJECT 8680-00-71 TOTAL	28	

STATION - STATION	LOCATION	201.0205 STA	REMARKS
PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
STA 497+00 - STA 499+00	Hill RT	2	Lilac Hedge
	CAT 0010 STAGE 1 TOTAL	2	
	PROJECT 8998-00-24 TOTAL	2	

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REMOVING CONCRETE PAVEMENT

STATION - STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
MAINLINE & SIDEROADS*			
STA 136+94 - STA 137+27	RT	124	
STA 138+07 - STA 140+66	RT	686	
STA 146+15 - STA 147+90	RT	454	
STA 146+90 - STA 147+17	RT	37	DRIVEWAY
STA 184+10 - STA 189+15	RT	1323	
STA 189+15 - STA 195+77	RT	1695	
STA 189+71 - STA 190+23	RT	69	DRIVEWAY
STA 190+58 - STA 191+07	RT	63	DRIVEWAY
STA 191+31 - STA 191+75	RT	57	DRIVEWAY
STA 193+64 - STA 194+06	RT	56	DRIVEWAY
STA 196+46 - STA 201+44	RT	1274	
STA 198+03 - STA 198+45	RT	99	DRIVEWAY
STA 199+95 - STA 200+34	RT	113	DRIVEWAY
STA 201+44 - STA 204+88	RT	973	
STA 204+88 - STA 208+33	RT	1129	
STA 208+33 - STA 210+18	RT	625	
CAT 0010 STAGE 1 TOTAL		8777	
STAGE 2			
MAINLINE & SIDEROADS*			
STA 136+54 - STA 137+37	LT	318	
STA 138+07 - STA 140+66	LT	666	
STA 138+57 - STA 138+81	LT	54	
STA 139+69 - STA 140+01	LT	45	
STA 146+15 - STA 147+90	LT	441	
STA 184+10 - STA 185+79	LT	524	
STA 184+23 - STA 184+53	LT	44	DRIVEWAY
STA 185+79 - STA 188+74	LT	922	
STA 187+28 - STA 187+58	LT	39	DRIVEWAY
STA 188+74 - STA 191+70	LT	982	
STA 189+48 - STA 189+83	LT	50	DRIVEWAY
STA 190+29 - STA 190+64	LT	49	DRIVEWAY
STA 450+63 - STA 450+97	LT	73	POPLAR AVE N DRIVEWAY
STA 191+70 - STA 195+77	LT	1178	
STA 192+18 - STA 192+49	LT	43	DRIVEWAY
STA 193+19 - STA 193+58	LT	55	DRIVEWAY
STA 194+72 - STA 195+09	LT	53	DRIVEWAY
STA 196+46 - STA 198+21	LT	588	
STA 198+21 - STA 201+46	LT	1084	
STA 199+85 - STA 200+05	LT	30	DRIVEWAY
STA 201+46 - STA 204+75	LT	1135	
STA 203+22 - STA 203+52	LT	77	DRIVEWAY
STA 204+75 - STA 208+33	LT	1093	
STA 480+58 - STA 480+93	RT	64	CEDAR AVE N DRIVEWAY
STA 206+26 - STA 206+63	LT	103	
STA 208+33 - STA 210+18	LT	483	
CAT 0010 STAGE 2 TOTAL		10193	
STAGE 3			
USH 2 - MEDIAN			
STA 138+07 - STA 140+55	CL	345	
STA 146+15 - STA 147+90	CL	233	
STA 184+10 - STA 185+79	CL	226	
STA 185+79 - STA 188+74	CL	393	
STA 188+74 - STA 191+70	CL	394	
STA 191+70 - STA 195+77	CL	544	
STA 196+46 - STA 198+21	CL	234	
STA 198+21 - STA 201+44	CL	431	
STA 201+44 - STA 204+88	CL	457	
STA 204+88 - STA 208+33	CL	462	
STA 208+33 - STA 210+18	CL	245	
CAT 0010 STAGE 3 TOTAL		3964	

CONT. REMOVING CONCRETE PAVEMENT

STATION - STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 4			
MAINLINE & SIDEROADS*			
STA 147+90 - STA 148+92	RT	413	
STA 147+92 - STA 148+19	RT	43	DRIVEWAY
STA 298+97 - STA 299+16	LT	35	JOHN AVE S DRIVEWAY
STA 148+92 - STA 152+62	RT	1409	
STA 149+50 - STA 149+80	RT	44	DRIVEWAY
STA 152+62 - STA 156+47	RT	1494	
STA 308+91 - STA 309+32	LT	71	HUGHITT AVE S DRIVEWAY
STA 308+99 - STA 309+32	RT	76	HUGHITT AVE S DRIVEWAY
STA 154+26 - STA 154+57	RT	41	DRIVEWAY
STA 154+93 - STA 155+23	RT	39	DRIVEWAY
STA 156+47 - STA 160+32	RT	1543	
STA 158+12 - STA 158+42	RT	38	DRIVEWAY
STA 160+32 - STA 164+02	RT	1435	
STA 161+32 - STA 161+61	RT	34	DRIVEWAY
STA 162+61 - STA 163+05	RT	51	DRIVEWAY
STA 164+02 - STA 167+73	RT	1537	
STA 165+12 - STA 165+59	RT	54	DRIVEWAY
STA 166+01 - STA 166+50	RT	65	DRIVEWAY
STA 167+73 - STA 174+10	RT	2310	
STA 168+99 - STA 169+46	RT	72	DRIVEWAY
STA 174+10 - STA 182+53	RT	2675	
STA 176+52 - STA 176+79	RT	41	DRIVEWAY
STA 178+19 - STA 178+53	RT	44	DRIVEWAY
STA 179+05 - STA 179+37	RT	108	DRIVEWAY
STA 180+74 - STA 180+96	RT	33	DRIVEWAY
STA 182+53 - STA 184+10	RT	770	
STA 408+00 - STA 408+38	RT	36	CATLIN AVE S DRIVEWAY
CAT 0010 STAGE 4 TOTAL		14511	
STAGE 5			
MAINLINE & SIDEROADS*			
STA 147+90 - STA 148+92	LT	423	
STA 148+92 - STA 152+62	LT	1408	
STA 300+56 - STA 300+84	LT	43	JOHN AVE N DRIVEWAY
STA 300+59 - STA 300+94	RT	42	JOHN AVE N DRIVEWAY
STA 149+73 - STA 150+01	LT	39	DRIVEWAY
STA 150+97 - STA 151+23	LT	36	DRIVEWAY
STA 152+62 - STA 156+47	LT	1515	
STA 154+99 - STA 155+21	LT	19	DRIVEWAY
STA 156+47 - STA 160+32	LT	1477	
STA 160+32 - STA 164+02	LT	1335	
STA 160+92 - STA 161+21	LT	34	DRIVEWAY
STA 161+27 - STA 161+55	LT	32	DRIVEWAY
STA 164+02 - STA 167+73	LT	1559	
STA 167+73 - STA 171+43	LT	1527	
STA 171+43 - STA 178+83	LT	2191	
STA 172+59 - STA 172+79	LT	32	DRIVEWAY
STA 176+25 - STA 176+50	LT	43	DRIVEWAY
STA 178+83 - STA 182+53	LT	1339	
STA 400+64 - STA 401+00	RT	41	FISHER AVE N DRIVEWAY
STA 179+91 - STA 180+23	LT	45	DRIVEWAY
STA 180+45 - STA 180+72	LT	38	DRIVEWAY
STA 181+00 - STA 181+31	LT	46	DRIVEWAY
STA 181+74 - STA 182+02	LT	42	DRIVEWAY
STA 182+53 - STA 184+10	LT	666	
STA 410+69 - STA 411+00	RT	28	CATLIN AVE N DRIVEWAY
CAT 0010 STAGE 5 TOTAL		14000	

CONT. REMOVING CONCRETE PAVEMENT

STATION - STATION	LOCATION	204.0100 SY	REMARKS
STAGE 6			
USH 2 - MEDIAN			
STA 147+90 - STA 148+92	LT/RT	136	
STA 148+92 - STA 152+62	LT/RT	493	
STA 152+62 - STA 156+47	LT/RT	509	
STA 156+47 - STA 160+32	LT/RT	514	
STA 160+32 - STA 164+02	LT/RT	493	
STA 164+02 - STA 167+73	LT/RT	491	
STA 167+73 - STA 171+43	LT/RT	490	
STA 171+43 - STA 174+10	LT/RT	356	
STA 174+10 - STA 178+70	LT/RT	614	
STA 178+70 - STA 182+53	LT/RT	510	
STA 182+53 - STA 184+10	LT/RT	209	
CAT 0010 STAGE 6 TOTAL		4815	
PROJECT 8680-00-71			
CAT 0010 TOTAL		56260	

*MAINLINE QUANTITIES INCLUDE SIDEROADS TO THE CATEGORY/PROJECT SPLIT LINE

PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
STA 98+38 - STA 98+66	LT	30	OGDEN AVE DRIVEWAY
CAT 0080 STAGE 1 TOTAL		30	
STAGE 2			
STA 420+90 - STA 422+15	LT/RT	542	BIRCH AVE
STA 421+13 - STA 421+44	RT	22	BIRCH AVE DRIVEWAY
STA 421+58 - STA 421+69	LT	20	BIRCH AVE DRIVEWAY
STA 421+79 - STA 421+91	LT	23	BIRCH AVE DRIVEWAY
STA 421+80 - STA 421+92	RT	22	BIRCH AVE DRIVEWAY
STA 451+25 - STA 452+25	LT/RT	435	POPLAR AVE
STA 451+52 - STA 451+67	RT	31	POPLAR AVE DRIVEWAY
STA 451+75 - STA 451+93	LT	35	POPLAR AVE DRIVEWAY
STA 461+05 - STA 461+75	LT/RT	307	PINE AVE
STA 471+00 - STA 472+15	LT/RT	324	ELM AVE N
CAT 0080 STAGE 2 TOTAL		1761	
STAGE 4			
STA 297+72 - STA 298+80	LT/RT	359	JOHN AVE S
STA 298+03 - STA 298+17	LT/RT	25	JOHN AVE S DRIVEWAY
STA 298+07 - STA 298+23	RT	33	JOHN AVE S DRIVEWAY
STA 298+31 - STA 298+51	LT	32	JOHN AVE S DRIVEWAY
STA 308+93 - STA 309+05	LT/RT	36	HUGHITT AVE S
STA 307+99 - STA 308+20	LT	38	HUGHITT AVE S DRIVEWAY
STA 308+02 - STA 308+18	RT	26	HUGHITT AVE S DRIVEWAY
STA 337+75 - STA 339+00	LT/RT	421	CUMMING AVE S
STA 338+11 - STA 338+32	LT	35	CUMMING AVE S DRIVEWAY
STA 338+12 - STA 338+28	RT	37	CUMMING AVE S DRIVEWAY
STA 347+78 - STA 348+95	LT/RT	440	BAXTER AVE S
STA 348+09 - STA 348+25	RT	17	BAXTER AVE S DRIVEWAY
STA 348+10 - STA 348+25	LT	32	BAXTER AVE S DRIVEWAY
STA 348+67 - STA 348+78	LT	10	BAXTER AVE S DRIVEWAY
STA 387+25 - STA 389+10	LT/RT	768	CLOUGH AVE
STA 387+67 - STA 387+82	RT	53	CLOUGH AVE
CAT 0080 STAGE 4 TOTAL		2362	
STAGE 5			
STA 301+25 - STA 302+17	LT/RT	329	JOHN AVE N
STA 301+78 - STA 301+93	LT/RT	29	JOHN AVE N DRIVEWAY
STA 301+82 - STA 301+93	RT	15	JOHN AVE N DRIVEWAY
STA 311+72 - STA 312+07	RT	72	HUGHITT AVE N DRIVEWAY
STA 311+77 - STA 311+95	LT	34	HUGHITT AVE N DRIVEWAY
STA 340+95 - STA 341+60	LT	40	CUMMING AVE N PARKING
STA 351+00 - STA 352+29	LT/RT	568	BAXTER AVE N
STA 351+73 - STA 351+96	LT	20	BAXTER AVE N DRIVEWAY
STA 380+82 - STA 382+50	LT/RT	618	WEEKS AVE
STA 381+16 - STA 381+24	RT	15	WEEKS AVE DRIVEWAY
STA 381+78 - STA 382+19	RT	69	WEEKS AVE DRIVEWAY
CAT 0080 STAGE 4 TOTAL		1809	
PROJECT 8680-00-71 CAT 0080 TOTAL		5962	
PROJECT 8680-00-71 TOTAL		62222	

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CONT. REMOVING CONCRETE PAVEMENT

STATION - STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
STA 498+88 - STA 498+97	LT/RT	66	HILL AVE S
PROJECT 8998-00-24 STAGE 1 TOTAL		66	
STAGE 4			
STA 327+80 - STA 329+15	LT/RT	902	HAMMOND AVE S
STA 328+02 - STA 328+15	LT	28	HAMMOND AVE S DRIVEWAY
STA 328+07+ STA 328+23	RT	23	HAMMOND AVE S DRIVEWAY
STA 357+79 - STA 358+85	LT/RT	547	LAMBORN AVE
STA 358+07 - STA 358+27	LT	30	LAMBORN AVE DRIVEWAY
STA 100+39 - STA 101+37	LT/RT	304	GRAND AVE S
STA 100+83 - STA 101+21	LT	62	GRAND AVE S DRIVEWAY
STA 101+37 - STA 101+56	LT	40	GRAND AVE S DRIVEWAY
PROJECT 8998-00-24 STAGE 4 TOTAL		1936	
STAGE 5			
STA 411+78 - STA 411+93	RT	32	CATLIN AVE N DRIVEWAY
PROJECT 8998-00-24 STAGE 5 TOTAL		32	
PROJECT 8998-00-24 TOTAL		2034	
COMBINED TOTAL (BOTH PROJECTS)		64256	

REMOVING BUILDING

STATION - STATION	LOCATION	204.0230.S REMOVING BUILDING LS
PROJECT 8680-00-71		
CAT 0010		
207+75	60' LT	1
CAT 0010 TOTAL		1
PROJECT 8680-00-71 CAT 0010 TOTAL		1

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
STA 136+65 - STA 137+18	RT	64	BANKS AVE
STA 137+03 - STA 137+27	RT	72	BANKS AVE PORKCHOP ISLAND
STA 137+81 - STA 141+04	RT	358	BANKS AVE - TOWER AVE*
STA 141+73 - STA 145+00	RT	368	TOWER AVE - OGDEN AVE*
STA 145+45 - STA 147+90	RT	259	OGDEN AVE - END STAGE 1
STA 184+10 - STA 188+95	RT	516	BEGIN STAGE 1 - MORTORELLI AV
STA 189+36 - STA 195+77	RT	669	MORTORELLI AVE - RR TRACKS*
STA 196+47 - STA 201+31	RT	509	RR TRACKS - ELM AVE*
STA 197+01 - STA 198+03	RT	102	PARKING LOT ENTRANCE
STA 198+45 - STA 199+95	RT	151	PARKING LOT ENTRANCE
STA 200+34 - STA 200+95	RT	62	PARKING LOT ENTRANCE
STA 202+21 - STA 204+66	RT	533	ELM AVE - CEDAR AVE*
STA 205+11 - STA 208+00	RT	398	CEDAR AVE - HILL AVE*
STA 208+36 - STA 210+18	RT	244	HILL AVE - PROJECT END*
CAT 0010 STAGE 1 TOTAL		4305	

CONT. REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
STAGE 2			
STA 136+54 - STA 137+12	LT	100	BANKS AVE
STA 136+98 - STA 137+34	LT	156	BANKS AVE PORKCHOP ISLAND
STA 137+74 - STA 141+02	LT	389	BANKS AVE - TOWER AVE*
STA 141+75 - STA 145+00	LT	394	TOWER AVE - OGDEN AVE*
STA 145+44 - STA 147+90	LT	265	OGDEN AVE - END STAGE 2
STA 184+10 - STA 185+60	LT	202	BEGIN STAGE 2 - BIRCH AVE
STA 186+02 - STA 188+55	LT	325	BIRCH AVE - CYPRESS AVE*
STA 188+94 - STA 191+49	LT	293	CYPRESS AVE - POPLAR AVE*
STA 191+90 - STA 195+77	LT	407	POPLAR AVE - RR TRACKS*
STA 196+47 - STA 198+01	LT	178	RR TRACKS - PINE AVE*
STA 198+39 - STA 201+30	LT	330	PINE AVE - ELM AVE*
STA 201+65 - STA 204+41	LT	378	ELM AVE - CEDAR AVE*
STA 204+94 - STA 208+27	LT	356	CEDAR AVE - HILL AVE*
STA 204+94 - STA 206+28	LT	183	PARKING LOT
STA 206+63 - STA 208+17	LT	152	PARKING LOT
STA 208+65 - STA 210+18	LT	170	HILL AVE - END OF PROJECT*
CAT 0010 STAGE 2 TOTAL		4278	
STAGE 4			
STA 147+90 - STA148+76	RT	162	BEGIN STAGE 4 - JOHN AVE*
STA 149+07 - STA 152+48	RT	471	JOHN AVE - HUGHITT AVE*
STA 149+50	RT	33	PARKING LOT ENTRANCE
STA 149+80	RT	40	PARKING LOT ENTRANCE
STA 152+77 - STA 156+19	RT	440	HUGHITT AVE - HAMMOND AVE*
STA 156+79 - STA 160+17	RT	431	HAMMOND AVE - CUMMING AVE*
STA 160+48 - STA 163+82	RT	457	CUMMING AVE - BAXTER AVE*
STA 164+23 - STA 167+48	RT	462	BAXTER AVE - LAMBORN AVE*
STA 167+97 - STA 173+88	RT	712	LAMBORN AVE - CLOUGH AVE*
STA 168+66 - STA 168+99	RT	32	PARKING LOT ENTRANCE
STA 174+31 - STA 182+23	RT	961	CLOUGH AVE - CATLIN AVE*
STA 178+53 - STA 179+05	RT	298	PARKING LOT ENTRANCE
STA 179+37 - STA 180+17	RT	93	PARKING LOT ENTRANCE
STA 182+76 - STA 188+96	RT	294	CATLIN AVE - END STAGE 4*
CAT 0010 STAGE 4 TOTAL		4886	
STAGE 5			
STA 147+90 - STA148+77	LT	167	BEGIN STAGE 4 - JOHN AVE*
STA 149+08 - STA 152+47	LT	484	JOHN AVE - HUGHITT AVE*
STA 152+77 - STA 156+11	LT	460	HUGHITT AVE - HAMMOND AVE*
STA 156+78 - STA 160+06	LT	447	HAMMOND AVE - CUMMING AVE*
STA 160+52 - STA 163+81	LT	446	CUMMING AVE - BAXTER AVE*
STA 164+24 - STA 167+42	LT	423	BAXTER AVE - GRAND AVE*
STA 168+03 - STA 171+24	LT	408	GRAND AVE - WEEKS AVE*
STA 171+58 - STA 178+63	LT	774	WEEKS AVE - FISHER AVE*
STA 179+04 - STA 182+32	LT	368	FISHER AVE - CATLIN AVE
STA 182+67 - STA 185+60	LT	202	CATLIN AVE - END STAGE 5*
CAT 0010 STAGE 5 TOTAL		4179	
PROJECT 8680-00-71 CAT 0010 TOTAL		17648	

*MAINLINE REMOVING CURB & GUTTER QUANTITIES INCLUDE REMOVALS TO 8680-00-71 LIMITS ON SIDE STREETS

STATION - STATION	LOCATION	LF	REMARKS
STAGE 5			
PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
STA 3+77 - STA 4+26	LT	50	BANKS AVE
STA 684+10 - STA 687+51	LT/RT	684	TOWER AVE
STA 468+98 - STA 467+99	LT	101	ELM AVE
STA 468+98 - STA 467+79	RT	121	ELM AVE
CAT 0080 STAGE 1 TOTAL		956	
STAGE 2			
STA 420+90 - STA 422+15	LT	125	BIRCH AVE
STA 420+90 - STA 422+15	RT	126	BIRCH AVE
STA 431+98 - STA 432+60	RT	72	CYPRESS AVE
STA 461+26 - STA 461+57	LT	18	PINE AVE
STA 481+81 - STA 482+15	LT	39	CEDAR AVE
CAT 0080 STAGE 2 TOTAL		380	

CONT. REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
STAGE 4			
STA 297+72 - STA 298+80	LT	87	JOHN AVE
STA 297+72 - STA 298+80	RT	104	JOHN AVE
STA 307+80 - STA 309+05	LT	169	HUGHITT AVE
STA 307+80 - STA 309+05	RT	60	HUGHITT AVE
STA 337+75 - STA 339+00	LT	107	CUMMING AVE
STA 337+90 - STA 339+00	RT	97	CUMMING AVE
STA 347+78 - STA 348+95	LT	106	BAXTER AVE
STA 347+78 - STA 348+95	RT	108	BAXTER AVE
STA 388+25 - STA 389+10	LT	102	CLOUGH AVE
STA 387+25 - STA 389+10	RT	251	CLOUGH AVE
CAT 0080 STAGE 4 TOTAL		1191	
STAGE 5			
STA 301+25 - STA 302+17	LT	91	JOHN AVE
STA 301+25 - STA 302+17	RT	91	JOHN AVE
STA 311+00 - STA 311+76	LT	77	HUGHITT AVE
STA 311+00 - STA 311+72	RT	72	HUGHITT AVE
STA 340+95 - STA 342+38	LT	185	CUMMING AVE
STA 340+95 - STA 342+56	RT	162	CUMMING AVE
STA 351+00 - STA 352+29	LT	129	BAXTER AVE
STA 351+00 - STA 352+29	RT	129	BAXTER AVE
STA 381+24 - STA 382+50	RT	95	WEEKS AVE
STA 401+06 - STA 402+15	LT	100	FISHER AVE
STA 401+00 - STA 401+58	RT	58	FISHER AVE
CAT 0080 STAGE 5 TOTAL		1189	
PROJECT 8680-00-71 CAT 0080 TOTAL		3716	
PROJECT 8680-00-71 TOTAL		21364	

STATION - STATION	LOCATION	LF	REMARKS
PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
STA 498+50 - STA 498+98	LT	66	HILL AVE
STA 498+22 - STA 498+97	RT	77	HILL AVE
PROJECT 8998-00-24 STAGE 1 TOTAL		143	
STAGE 4			
STA 327+80 - STA 329+15	LT	135	HAMMOND AVE
STA 327+80 - STA 329+15	RT	135	HAMMOND AVE
STA 101+41 - STA 101+66	LT	139	SOUTH GRAND AVE
STA 100+37 - STA 101+66	RT	118	SOUTH GRAND AVE
STA 357+79 - STA 358+85	LT	108	LAMBORN AVE
STA 357+79 - STA 358+31	RT	63	LAMBORN AVE
STA 358+64 - STA 358+85	RT	30	LAMBORN AVE
STA 407+77 - STA 408+00	LT	23	CATLIN AVE
STA 407+83 - STA 408+00	RT	17	CATLIN AVE
PROJECT 8998-00-24 STAGE 4 TOTAL		133	
STAGE 5			
STA 371+10 - STA 372+07	LT	97	GRAND AVE
STA 371+10 - STA 372+07	RT	97	GRAND AVE
STA 411+75 - STA 412+01	RT	26	CATLIN AVE
PROJECT 8998-00-24 STAGE 5 TOTAL		220	
PROJECT 8998-00-24 TOTAL		496	
COMBINED TOTAL (BOTH PROJECTS)		21860	

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REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
STA 136+64 - STA 137+17	RT	48	BEGIN PROJECT - BANKS AVE*
STA 131+80 - STA 141+04	RT	579	BANKS AVE - TOWER AVE*
STA 141+73 - STA 145+01	RT	523	TOWER AVE - OGDEN AVE*
STA 145+44 - STA 147+90	RT	225	OGDEN AVE - END STAGE 1
STA 184+01 - STA 188+95	RT	576	BEGIN STAGE 1 - MORTORELLI DR*
STA 189+38 - STA 195+83	RT	563	MORTORELLI DR - RR TRACKS*
STA 196+34 - STA 201+25	RT	501	RR TRACKS - ELM AVE*
STA 201+62 - STA 207+97	RT	769	ELM AVE - HILL AVE*
STA 208+46 - STA 210+18	RT	209	HILL AVE - END OF PROJECT*
CAT 0010 STAGE 1 TOTAL		3993	
STAGE 2			
STA 5+59 - STA 5+69	RT	27	BANKS AVE
STA 137+74 - STA 140+90	RT	478	BANKS AVE - TOWER AVE*
STA 141+75 - STA 145+00	RT	381	TOWER AVE - OGDEN AVE
STA 145+44 - STA 148+72	RT	273	OGDEN AVE - END STAGE 2
STA 184+53 - STA 185+60	LT	165	BEGIN STAGE 2 - BIRCH AVE*
STA 186+02 - STA 188+50	LT	308	BIRCH AVE - CYPRESS AVE*
STA 188+94 - STA 191+49	LT	329	CYPRESS AVE - POPLAR AVE*
STA 191+94 - STA 196+20	LT	376	POPLAR AVE - RR TRACKS
STA 196+34 - STA 198+01	LT	249	RR TRACKS - PINE AVE*
STA 198+40 - STA 201+25	LT	401	PINE AVE - ELM AVE*
STA 201+72 - STA 204+51	LT	361	ELM AVE - CEDAR AVE*
STA 204+94 - STA 208+17	LT	346	CEDAR AVE - HILL AVE*
STA 208+70 - STA 209+68	LT	56	HILL AVE - PROJECT END
CAT 0010 STAGE 2 TOTAL		3750	
STAGE 4			
STA 148+19 - STA 148+74	RT	94	BEGIN STAGE 4-JOHN AVE*
STA 149+12 - STA 152+45	RT	447	JOHN AVE - HUGHITT AVE*
STA 152+77 - STA 156+19	RT	444	HUGHITT AVE - HAMMOND AVE*
STA 156+79 - STA 160+10	RT	193	HAMMOND AVE - CUMMING AVE*
STA 160+56 - STA 163+84	RT	398	CUMMING AVE - BAXTER AVE*
STA 164+24 - STA 167+48	RT	416	BAXTER AVE - LAMBORN AVE*
STA 167+98 - STA 173+90	RT	736	LAMBORN AVE - CLOUGH AVE
STA 174+31 - STA 182+31	RT	958	CLOUGH AVE - CATLIN AVE
STA 182+79 - STA 188+95	RT	836	CATLIN AVE - END STAGE 4*
CAT 0010 STAGE 4 TOTAL		4522	
STAGE 5			
STA 147+90 - STA 148+71	LT	137	BEGIN STAGE 5 - JOHN AVE*
STA 149+09 - STA 152+45	LT	556	JOHN AVE - HUGHITT AVE*
STA 152+75 - STA 156+20	LT	497	HUGHITT AVE - HAMMOND AVE*
STA 156+79 - STA 160+12	LT	616	HAMMOND AVE - CUMMING AVE*
STA 160+54 - STA 163+80	LT	345	CUMMING AVE - BAXTER AVE*
STA 164+24 - STA 167+36	LT	406	BAXTER AVE - GRAND AVE*
STA 168+03 - STA 171+24	LT	439	GRAND AVE - WEEKS AVE*
STA 171+65 - STA 178+61	LT	811	WEEKS AVE - FISHER AVE*
STA 179+04 - STA 182+32	LT	262	FISHER AVE - CATLIN AVE*
STA 182+76 - STA 184+23	LT	238	CATLIN AVE - END STAGE 5*
CAT 0010 STAGE 5 TOTAL		4307	
PROJECT 8680-00-71 CAT 0010 TOTAL		16572	

*MAINLINE REMOVING CURB & GUTTER QUANTITIES INCLUDE REMOVALS TO 8680-00-71 LIMITS ON SIDE STREETS

PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
STA 4+05 - STA 4+26	LT	17	BANKS AVE
STA 687+19 - STA 687+35	LT	23	TOWER AVE
STA 687+05 - STA 687+35	RT	22	TOWER AVE
STA 98+32 - STA 99+35	LT	20	ODGEN AVE
STA 99+17- STA 99+35	RT	14	ODGEN AVE
STA 467+18 - STA 468+99	RT	82	ELM AVE
CAT 0080 STAGE 1 TOTAL		178	

CONT. REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS
STAGE 2			
STA 5+96 - STA 6+15	LT	14	BANKS AVE
STA 100+63 - STA 100+83	LT	19	ODGEN AVE
STA 100+63 - STA 100+83	RT	20	ODGEN AVE
STA 420+90 - STA 422+15	LT	56	BIRCH AVE
STA 420+90 - STA 422+15	RT	43	BIRCH AVE
STA 430+60 - STA 432+60	RT	45	CYPRESS AVE
STA 451+25 - STA 452+25	LT	14	POPLAR AVE
STA 461+05 - STA 461+75	LT	24	PINE AVE
STA 461+05 - STA 461+75	RT	33	PINE AVE
STA 471+00 - STA 472+15	LT	45	ELM AVE
STA 471+00 - STA 472+15	RT	49	ELM AVE
STA 481+00 - STA 482+15	LT	57	CEDAR AVE
STA 481+00 - STA 482+15	RT	60	CEDAR AVE
CAT 0080 STAGE 2 TOTAL		479	
STAGE 4			
STA 297+72 - STA 298+80	LT	59	JOHN AVE
STA 297+72 - STA 298+80	RT	48	JOHN AVE
STA 307+80 - STA 309+05	LT	61	HUGHITT AVE
STA 307+80 - STA 309+05	RT	65	HUGHITT AVE
STA 337+75 - STA 339+00	LT	52	CUMMING AVE
STA 337+75 - STA 339+00	RT	56	CUMMING AVE
STA 347+78 - STA 348+95	LT	53	BAXTER AVE
STA 347+78 - STA 348+95	RT	68	BAXTER AVE
STA 387+25 - STA 389+10	LT	100	CLOUGH AVE
STA 388+21 - STA 389+10	RT	96	CLOUGH AVE
CAT 0080 STAGE 4 TOTAL		658	
STAGE 5			
STA 301+25 - STA 302+16	LT	47	JOHN AVE
STA 301+25 - STA 302+16	RT	42	JOHN AVE
STA 311+00 - STA 312+20	LT	51	HUGHITT AVE
STA 311+00 - STA 312+20	RT	70	HUGHITT AVE
STA 331+44 - STA 331+52	RT	10	HAMMOND AVE
STA 340+95 - STA 342+36	LT	87	CUMMING AVE
STA 340+95 - STA 342+56	RT	119	CUMMING AVE
STA 351+00 - STA 352+29	LT	73	BAXTER AVE
STA 351+00 - STA 352+29	RT	76	BAXTER AVE
STA 380+85 - STA 382+50	LT	102	WEEKS AVE
STA 380+85 - STA 382+50	RT	69	WEEKS AVE
STA 401+06 - STA 401+23	LT	10	FISHER AVE
STA 401+06 - STA 401+73	RT	41	FISHER AVE
CAT 0080 STAGE 5 TOTAL		797	
PROJECT 8680-00-71 CAT 0080 TOTAL		2112	
PROJECT 8680-00-71 TOTAL		18684	

PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
STA 497+65 - STA 498+94.	LT	53	HILL AVE
STA 497+17 - STA 498+98	RT	79	HILL AVE
PROJECT 8998-00-24 STAGE 1 TOTAL		132	
STAGE 4			
STA 327+80 - STA 329+15	RT	140	HAMMOND AVE
STA 327+80 - STA 329+15	LT	106	HAMMOND AVE
STA 100+36 - STA 101+22	RT	45	SOUTH GRAND AVE
STA 100+25 - STA 101+60	LT	69	SOUTH GRAND AVE
STA 357+79 - STA 358+28	RT	36	LAMBOURN AVE
STA 358+32 - STA 358+74	LT	51	LAMBOURN AVE
STA 407+76 - STA 408+00	LT	17	CATILIN AVE
PROJECT 8998-00-24 STAGE 1 TOTAL		464	

CONT. REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS
STAGE 5			
STA 371+10 - STA 372+07	LT	64	GRAND AVE
STA 371+10 - STA 372+07	RT	65	GRAND AVE
STA 411+93 - STA 412+50	LT	29	CATILIN AVE
STA 411+94 - STA 412+50	RT	31	CATILIN AVE
PROJECT 8998-00-24 STAGE 1 TOTAL		189	
PROJECT 8998-00-24 TOTAL		785	
COMBINED TOTAL (BOTH PROJECTS)		**19469**	

REMOVING CONCRETE PARKING BLOCKS

STATION	LOCATION	204.9060.S.001 EACH
PROJECT 8680-00-71		
CAT 0010		
STAGE 2		
163+50	LT - BAXTER AVENUE PARKING LOT	12
PROJECT 8680-00-71 CAT 0010 TOTAL		**12**

REMOVING EXISTING FLAG POLE AND BASE

STATION	LOCATION	204.9060.S.003 EACH
PROJECT 8680-00-71		
CAT 0010		
STAGE 2		
191+07.5	48.3' LT	1
STAGE 5		
151+43.1	47.4' LT	1
PROJECT 8680-00-71 CAT 0010 TOTAL		**2**

REMOVING WOOD PILING

STATION	LOCATION	204.9060.S.004 EACH
PROJECT 8680-00-71		
CAT 0010		
STAGE 2		
163+50	LT - BAXTER AVENUE PARKING LOT	8
PROJECT 8680-00-71 CAT 0010 TOTAL		**8**

REMOVING RETAINING WALL

STATION - STATION	LOCATION	204.9090.S REMOVING RETAINING WALL LF	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 5			
STA 155+18 - STA 155+32	LT	28	MAINLINE WEST OF HAMMOND AVE N
STA 155+44 - STA 155+79	LT	36	MAINLINE WEST OF HAMMOND AVE N
STA 155+92 - STA 156+06	LT	24	MAINLINE WEST OF HAMMOND AVE N
CAT 0010 STAGE 5 TOTAL		88	
PROJECT 8680-00-71 CAT 0010 TOTAL		88	

8680-00-71 EARTHWORK DATA SUMMARY TABLE

DIVISION	STAGE	CATEGORY CODE	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT	PULVERIZED MATERIAL	EBS EXCAVATION (2)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (3)	REDUCED EBS IN FILL FACTOR 0.80	EXPANDED EBS BACKFILL FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL (4) FACTOR 1.30	MASS ORDINATE +/- (5)	DIVISION WASTE	208.0100 DIVISION BORROW
1	1	0010	138+07 - 210+18	USH 2 Mainline	53337				53337	0	0	181	235	53102		
			298+00 - 299+45	John (South)	535				535			2	3	532		
			300+54 - 301+25	John (North)	325				325			2	2	323		
			309+00 - 309+45	Hughitt (South)	226				226	0	0	1	1	225		
			310+54 - 311+00	Hughitt (North)	232				232			0	0	232		
			329+15 - 329+45	Hammond (South)	234				234	0	0	0	0	234		
			330+54 - 331+00	Hammond (North)	333				333			1	1	332		
			339+00 - 339+45	Cumming (South)	282				282	0	0	0	0	282		
			340+54 - 340+95	Cumming (North)	218				218			1	1	217		
			348+95 - 349+45	Baxter (South)	262				262			0	0	262		
			350+54 - 351+00	Baxter (North)	496				496			0	0	496		
			370+59 - 371+10	Grand (North)	438				438			0	0	438		
			358+85 - 359+35	Lamborn (South)	337				337			0	0	337		
			380+60 - 380+85	Weeks (North)	136				136			0	0	136		
			389+00 - 389+40	Clough (South)	166				166			0	0	166		
			398+51 - 399+41	Fisher (South)	533				533			18	23	510		
			400+60 - 401+00	Fisher (North)	290				290			0	0	290		
			408+00 - 409+40	Caitlin (South)	775				775			0	0	775		
			410+60 - 411+75	Caitlin (North)	491				491			0	0	491		
			420+60 - 420+75	Birch (North)	75				75			0	0	75		
			430+50 - 430+51	Cypress (North)	69				69			1	1	68		
			438+50 - 439+34	Mertz (South)	546				546			32	42	504		
			450+60 - 451+25	Poplar (North)	386				386			6	8	378		
			460+60 - 461+00	Pine (North)	192				192			0	0	192		
			469+00 - 469+41	Elm (South)	380				380			1	1	379		
			470+58 - 471+00	Elm (North)	173				173			9	12	161		
			480+60 - 481+00	Cedar (North)	219				219			1	1	218		
			499+00 - 499+27	Hill (South)	167				167			0	0	167		
			500+65 - 501+00	Hill (North)	152				152			0	0	152		
				8680-00-71 CAT 0010 TOTAL	62005											
									0				0	0		
		0080	297+72 - 298+00	John (South)	93				93			3	4	89		
			301+25 - 302+15	John (North)	371				371			2	3	368		
			307+80 - 309+00	Hughitt (South)	498				498			12	15	483		
			311+00 - 312+20	Hughitt (North)	568				568			5	7	562		
			337+90 - 339+00	Cumming (South)	592				592			6	8	584		
			340+95 - 342+57	Cumming (North)	755				755			2	3	752		
			347+79 - 348+95	Baxter (South)	471				471			2	3	468		
			351+00 - 352+28	Baxter (North)	1114				1114			0	0	1114		
			380+85 - 382+50	Weeks (North)	844				844			0	0	844		
			387+25 - 389+00	Clough (South)	699				699			13	17	682		
			401+00 - 402+15	Fisher (North)	699				699			0	0	699		
			420+75 - 422+15	Birch (North)	646				646			2	2	644		
			430+61 - 432+50	Cypress (North)	1110				1110			14	18	1092		
			437+75 - 438+50	Mertz (South)	335				335			32	42	293		
			451+25 - 452+30	Poplar (North)	515				515			7	9	506		
			461+00 - 461+75	Pine (North)	370				370			1	1	369		
			467+20 - 469+30	Elm (South)	860				860			1	1	859		
			471+00 - 472+15	Elm (North)	413				413			13	17	396		
			481+00 - 482+15	Cedar (North)	496				496			8	10	486		
			501+00 - 501+84	Hill (North)	342				342			2	2	340		
				8680-00-71 CAT 0080 TOTAL	11791											
	STAGE 1 SUBTOTAL				73796		0	0	73796	0	0	378	492	73304	0	0
DIVISION 1 SUBTOTAL					73796		0	0	73796	0	0	378	492	73304	0	0
ITEM TOTALS					73796		0	0	73796	0	0	378	492	73304	0	0
					TOTAL COMMON EXC		73796		73796			CY				

1) COMMON EXCAVATION IS THE SUM OF THE CUT LESS PULVERIZED MATERIAL VOLUME, ITEM NUMBER 205.0100.
2) EBS EXCAVATION TO BE BACKFILLED WITH BORROW OR CUT MATERIAL
3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
4) EXPANDED FILL FACTOR = 1.25
5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE STAGE. PLUS QUANTITY INDICATES EXCESS OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AT DIVISION WASTE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AS DIVISION BORROW. MASS ORDINATE IS AVAILABLE MATERIAL PLUS REDUCED EBS IN FILL, LESS ROCK EXCAVATION AND LESS EXPANDED FILL, ITEM NUMBER 208.0100.

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8998-00-24 EARTHWORK DATA SUMMARY TABLE

DIVISION	STAGE	CATEGORY CODE	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1)	PULVERIZED MATERIAL	EBS EXCAVATION (2)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (3)	REDUCED EBS IN FILL	EXPANDED EBS BACKFILL	UNEXPANDED FILL	EXPANDED FILL (4)	MASS ORDINATE +/- (5)	DIVISION WASTE	208.0100 DIVISION BORROW
					CUT					FACTOR 0.80	FACTOR 1.30		FACTOR 1.30			
1	1	0010	327+75 - 329+15	Hammond (South)	928				928	0	0	0	0	928		
			100+51 - 101+67	Grand (South)	522				522			5	7	516		
			371+10 - 372+07	Grand (North)	617				617			1	1	616		
			357+79 - 358+85	Lamborn (South)	844				844	0	0	3	4	840		
			407+83 - 408+00	Caitlin (South)	95				95			0	0	95		
			411+75 - 412+50	Caitlin (North)	224				224	0	0	4	5	219		
			497+75 - 499+00	Hill (South)	658				658			5	6	652		
	STAGE 1 SUBTOTAL				3888		0	0	3888	0	0	17	23	3865	0	3865
DIVISION 1 SUBTOTAL					3888		0	0	3888	0	0	17	23	3865	0	3865
ITEM TOTALS					3888		0	0	3888	0	0	17	23	3865	0	3865
	TOTAL COMMON EXC				3888				3888			CY				

1) COMMON EXCAVATION IS THE SUM OF THE CUT LESS PULVERIZED MATERIAL VOLUME, ITEM NUMBER 205.0100.
2) EBS EXCAVATION TO BE BACKFILLED WITH BORROW OR CUT MATERIAL
3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
4) EXPANDED FILL. FACTOR = 1.25
5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE STAGE. PLUS QUANTITY INDICATES EXCESS OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AT DIVISION WASTE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AS DIVISION BORROW. MASS ORDINATE IS AVAILABLE MATERIAL PLUS REDUCED EBS IN FILL, LESS ROCK EXCAVATION AND LESS EXPANDED FILL, ITEM NUMBER 208.0100.

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\030201_MQ.DWG
LAYOUT NAME - 030201_MQ - 030206_MQ
PLOT DATE : 10/24/2016 2:54 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

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EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL

STATION	TO	STATION		LOCATION	SPV.0195.003 TON
PROJECT 8680-00-71					
CAT 0010					
143+40	-	144+85	RT	Site 3	111
145+40	-	146+65	RT	Site 5	400
147+50	-	150+65	LT & RT	Site 6,7,8	5180
	-			Site 8 - low level	1004
152+50	-	153+15	RT	Site 10	86
160+00	-	161+00	LT	Site 17	550
165+50	-	167+40	RT	Site 19	1850
168+10	-	169+40	RT	Site 20	583
173+00	-	174+25	RT	Site 22	78
179+30	-	180+30	LT	Site 26	783
180+00	-	180+65	RT	Site 27	411
181+15	-	182+80	LT & RT	Site 28	3000
192+20	-	192+70	LT	Site 33	56
203+20	-	204+50	LT	Site 35	20
207+75	-	208+25	LT & RT	Site 36	24
				Undistributed	1414
		PROJECT 8680-00-71 CAT 0010 TOTAL			15550

STATION	TO	STATION		LOCATION	SPV.0195.003 TON
PROJECT 8680-00-71					
CAT 0060				Storm Water ML	
144+60	-	145+35	LT	Site 4	27
147+50	-	150+65	LT & RT	Site 6,7,8	583
152+50	-	153+15	RT	Site 10	114
154+25	-	156+35	RT	SITE 11,12	115
160+00	-	161+00	LT	Site 17	45
165+50	-	167+40	RT	Site 19	667
173+00	-	174+25	RT	Site 22	530
179+30	-	180+30	LT	SITE 26	0
180+00	-	180+65	RT	Site 27	188
181+15	-	182+80	LT & RT	Site 28	553
207+75	-	208+25	LT & RT	Site 36	322
				Undistributed	314
		PROJECT 8680-00-71 CAT 0060 TOTAL			3458

STATION	TO	STATION	LOCATION	SPV.0195.003 TON
PROJECT 8680-00-71				
CAT 0070			City Storm Water	
300+65	-	301+35	Site 6,7,8	115
298+50	-	299+65	Site 8 - low level	104
308+40	-	309+37	Site 10	178
340+67	-	341+60	Site 17	78
388+50	-	389+50	Site 22	53
400+65	-	401+75	Site 26	33
408+48	-	409+35	Site 28	29
	-		Site 36	67
	-		Undistributed	66
		PROJECT 8680-00-71 CAT 0070 TOTAL		723

STATION	TO	STATION	LOCATION	SPV.0195.003 TON
PROJECT 8680-00-71				
CAT 0080			Non-Participating	
298+50	-	298+80	Site 8 - low level	335
308+30	-	309+10	Site 10	86
340+90	-	341+65	Site 17	550
388+15	-	389+15	Site 22	117
500+50	-	500+90	Site 36	215
			Undistributed	131
		PROJECT 8680-00-71 CAT 0080 TOTAL		1433

CONT. EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL

STATION	TO	STATION		LOCATION	SPV.0195.003 TON
PROJECT 8680-00-72					
CAT 0010				Water Main	
144+60	-	145+35	LT	Site 4	35
145+40	-	146+65	RT	Site 5	28
147+50	-	150+65	LT & RT	Site 6,7,8	1164
				Site 8 - low level	121
152+50	-	153+15	RT	Site 10	181
154+25	-	156+35	RT	Site 11, 12	217
160+00	-	161+00	LT	Site 17	140
165+50	-	167+40	RT	Site 19	264
173+00	-	174+25	RT	Site 22	231
180+00	-	180+65	RT	Site 27	56
181+15	-	182+80	LT & RT	Site 28	406
207+75	-	208+25	LT & RT	Site 36	125
		PROJECT 8680-00-72 CAT 0010 TOTAL			2966

STATION	TO	STATION		LOCATION	SPV.0195.003 TON
PROJECT 8998-00-24					
CAT 0010				STP Urban	
165+50	-	167+40	RT	Site 19	275
		PROJECT 8998-00-24 CAT 0010 TOTAL			275

OVER EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL

STATION	TO	STATION	LOCATION	SPV.0195.002 TON
PROJECT 8680-00-71				
CAT 0080				
YEAR 1 (2017)			Non-Participating	
500+50	-	500+90	Site 36	450
			Undistributed	100
YEAR 2 (2018)				
308+30	-	309+10	Site 10	86
388+15	-	389+15	Site 22	117
			Undistributed	20
		PROJECT 8680-00-71 CAT 0080 TOTAL		773

SELECT BORROW

STATION - STATION	LOCATION	208.1100 CY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 - MAINLINE			
STA 136+90 - STA 137+27	RT	55	BANKS AVE S TURN LANE
STA 138+07 - STA 140+55	RT	293	
STA 142+93 - STA 144+43	RT	64	BUS PULL OUT
STA 146+15 - STA 147+60	RT	164	
STA 184+60 - STA 189+15	RT	559	
STA 189+15 - STA 196+24	RT	850	
STA 196+34 - STA 201+44	RT	616	
STA 201+44 - STA 208+33	RT	901	
STA 208+33 - STA 210+18	RT	273	
SIDE ROADS			
STA 438+64 - STA 439+36	LT/RT	118	MORTORELLI DR S
STA 469+00 - STA 469+41	LT/RT	141	ELM AVE S / A HAYES CT
CAT 0010 STAGE 1 TOTAL		4035	
STAGE 2			
USH 2 - MAINLINE			
STA 136+54 - STA 137+37	LT	106	
STA 138+07 - STA 140+55	LT	292	
STA 146+15 - STA 147+60	LT	208	
STA 184+60 - STA 185+79	LT	157	
STA 185+79 - STA 188+74	LT	369	
STA 188+74 - STA 191+70	LT	379	
STA 191+70 - STA 196+24	LT	551	
STA 196+34 - STA 198+21	LT	230	
STA 198+21 - STA 201+46	LT	429	
STA 201+46 - STA 204+75	LT	429	
STA 204+75 - STA 208+33	LT	458	
STA 208+33 - STA 210+18	LT	198	
SIDE ROADS			
STA 420+60 - STA 420+90	LT/RT	42	BIRCH AVE
STA 430+49 - STA 430+60	LT/RT	24	CYPRESS AVE
STA 450+60 - STA 451+25	LT/RT	108	POPLAR AVE
STA 460+60 - STA 461+05	LT/RT	84	PINE AVE N
STA 470+70 - STA 471+00	LT/RT	35	ELM AVE N
STA 480+60 - STA 480+97	LT/RT	70	CEDAR AVE N
STA 500+65 - STA 500+78	LT/RT	20	HILL AVE N
CAT 0010 STAGE 2 TOTAL		4190	
STAGE 3			
USH 2 - MEDIAN			
STA 138+07 - STA 140+55	CL	76	
STA 146+15 - STA 147+60	CL	64	
STA 184+60 - STA 185+79	CL	53	
STA 185+79 - STA 188+74	CL	131	
STA 188+74 - STA 191+70	CL	131	
STA 191+70 - STA 194+24	CL	203	
STA 196+34 - STA 198+21	CL	83	
STA 198+21 - STA 201+46	CL	144	
STA 201+46 - STA 204+75	CL	146	
STA 204+75 - STA 208+33	CL	159	
STA 208+33 - STA 210+18	CL	82	
CAT 0010 STAGE 3 TOTAL		1275	

CONT. SELECT BORROW

STATION - STATION	LOCATION	208.1100 CY	REMARKS
STAGE 4			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	RT	173	
STA 148+92 - STA 152+62	RT	500	
STA 152+62 - STA 156+47	RT	527	
STA 156+47 - STA 160+32	RT	525	
STA 160+32 - STA 164+02	RT	493	
STA 164+02 - STA 167+73	RT	509	
STA 167+73 - STA 174+10	RT	829	
STA 174+10 - STA 178+70	RT	611	
STA 178+70 - STA 182+53	RT	487	
STA 182+53 - STA 184+60	RT	264	
SIDE ROADS			
STA 298+80 - STA 299+31	LT/RT	65	JOHN AVE S
STA 309+05 - STA 309+46	LT/RT	67	HUGHITT AVE S
STA 329+15 - STA 329+41	LT/RT	65	HAMMOND AVE S
STA 339+00 - STA 339+46	LT/RT	85	CUMMING AVE S
STA 348+95 - STA 349+46	LT/RT	80	BAXTER AVE S
STA 358+85 - STA 359+35	LT/RT	98	LAMBORN AVE S
STA 389+10 - STA 389+40	LT/RT	47	CLOUGH AVE S
STA 398+20 - STA 399+41	LT/RT	166	FISHER AVE S
STA 408+00 - STA 409+40	LT/RT	301	CATILIN AVE S
CAT 0010 STAGE 4 TOTAL		5894	
STAGE 5			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	LT	170	
STA 148+92 - STA 152+62	LT	498	
STA 152+62 - STA 156+47	LT	519	
STA 156+47 - STA 160+32	LT	523	
STA 160+32 - STA 164+02	LT	491	
STA 164+02 - STA 167+73	LT	511	
STA 167+73 - STA 171+43	LT	516	
STA 171+43 - STA 178+83	LT	1013	
STA 178+83 - STA 182+53	LT	476	
STA 182+53 - STA 184+60	LT	264	
SIDE ROADS			
STA 300+64 - STA 301+25	LT/RT	76	JOHN AVE N
STA 310+54 - STA 311+00	LT/RT	81	HUGHITT AVE N
STA 330+59 - STA 331+00	LT/RT	105	HAMMOND AVE N
STA 340+55 - STA 340+95	LT/RT	81	CUMMING AVE N
STA 350+54 - STA 351+00	LT/RT	62	BAXTER AVE N
STA 370+60 - STA 371+10	LT/RT	118	GRAND AVE N
STA 380+60 - STA 380+85	LT/RT	36	WEEKS AVE N
STA 400+60 - STA 401+00	LT/RT	80	FISHER AVE N
STA 410+60 - STA 411+75	LT/RT	189	CATLIN AVE N
CAT 0010 STAGE 5 TOTAL		5807	
STAGE 6			
USH 2 - MEDIAN			
STA 147+60 - STA 148+92	LT/RT	59	
STA 148+92 - STA 152+62	LT/RT	164	
STA 152+62 - STA 156+47	LT/RT	171	
STA 156+47 - STA 160+32	LT/RT	171	
STA 160+32 - STA 164+02	LT/RT	164	
STA 164+02 - STA 167+73	LT/RT	164	
STA 167+73 - STA 171+43	LT/RT	164	
STA 171+43 - STA 174+10	LT/RT	119	
STA 174+10 - STA 178+83	LT/RT	211	
STA 178+83 - STA 182+53	LT/RT	164	
STA 182+53 - STA 184+60	LT/RT	92	
CAT 0010 STAGE 6 TOTAL		1644	
PROJECT 8680-00-71 CAT 0010 TOTAL		22845	

CONT. SELECT BORROW

STATION - STATION	LOCATION	208.1100 CY	REMARKS
CAT 0080			
STAGE 1			
STA 437+75 - STA 438+64	LT/RT	150	MORTORELLI DR
STA 467+18 - 469+00	LT/RT	275	ELM AVE S
CAT 0080 STAGE 1 TOTAL		425	
STAGE 2			
STA 420+90 - STA 422+15	LT/RT	207	BIRCH AVE
STA 430+60 - STA 432+60	LT/RT	357	CYPRESS AVE
STA 451+25 - STA 452+25	LT/RT	151	POPLAR AVE
STA 461+05 - STA 461+75	LT/RT	140	PINE AVE N
STA 471+00 - STA 472+15	LT/RT	141	ELM AVE N
STA 481+00 - STA 482+15	LT/RT	178	CEDAR AVE N
STA 500+79 - STA 501+89	LT/RT	178	HILL AVE N
CAT 0080 STAGE 2 TOTAL		1352	
STAGE 4			
STA 297+72 - STA 298+80	LT/RT	139	JOHN AVE S
STA 307+80 - STA 309+05	LT/RT	200	HUGHITT AVE S
STA 337+75 - STA 339+00	LT/RT	221	CUMMING AVE S
STA 347+78 - STA 348+95	LT/RT	172	BAXTER AVE S
STA 387+25 - STA 389+10	LT/RT	253	CLOUGH AVE S
STA 398+05 - STA 398+20	LT/RT	57	FISHER AVE S
CAT 0080 STAGE 4 TOTAL		1044	
STAGE 5			
STA 301+25 - STA 302+17	LT/RT	118	JOHN AVE N
STA 311+00 - STA 312+20	LT/RT	208	HUGHITT AVE N
STA 340+95 - STA 342+56	LT/RT	291	CUMMING AVE N
STA 351+00 - STA 352+29	LT/RT	192	BAXTER AVE N
STA 380+85 - STA 382+50	LT/RT	250	WEEKS AVE
STA 401+00 - STA 402+15	LT/RT	211	FISHER AVE N
CAT 0080 STAGE 5 TOTAL		1271	
PROJECT 8680-00-71 CAT 0080 TOTAL		4093	
PROJECT 8680-00-71 TOTAL		26938	

PROJECT 8998-00-24

CAT 0010

STAGE 1			
STA 497+75 - STA 498+80	LT/RT	187	HILL ST S
PROJECT 8998-00-24 STAGE 1 TOTAL		187	
STAGE 4			
STA 327+80 - STA 329+15	LT/RT	351	HAMMOND S
STA 100+41 - STA 101+66	LT/RT	179	GRAND AVE SOUTH
STA 357+79 - STA 358+85	LT/RT	219	LAMBORN S
STA 407+83 - STA 408+00	LT/RT	37	CATLIN S
PROJECT 8998-00-24 STAGE 4 TOTAL		787	
STAGE 5			
STA 371+10 - STA 372+07	LT/RT	229	GRAND AVE N
STA 411+75 - STA 412+50	LT/RT	112	CATLIN N
PROJECT 8998-00-24 STAGE 5 TOTAL		342	
PROJECT 8998-00-24 TOTAL		1316	
COMBINED TOTAL (BOTH PROJECTS)		**28253**	

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PREPARING FOUNDATIONS FOR ASPHALTIC PAVING

STATION - STATION	LOCATION	211.0100 PREPARING FOUNDATION FOR ASPHALTIC PAVING LS
PROJECT 8680-00-71		
CAT 0010		
		1
	CAT 0010 TOTAL	1
PROJECT 8680-00-71 CAT 0010 TOTAL		1

PREPARING FOUNDATION FOR CONCRETE PAVEMENT

STATION - STATION	LOCATION	211.0200 PREPARING FOUNDATION FOR CONCRETE PAVEMENT LS
PROJECT 8680-00-71		
CAT 0010		
		1
	CAT 0010 TOTAL	1
PROJECT 8680-00-71 CAT 0010 TOTAL		1

FINISHING ROADWAY

STATION - STATION	LOCATION	213.0100 FINSHING ROADWAY LS
PROJECT 8680-00-71		
CAT 0010		
		1
	CAT 0010 TOTAL	1
PROJECT 8680-00-71 CAT 0010 TOTAL		1

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120* 1 1/4-INCH TON	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 - MAINLINE			
STA 136+90 - STA 137+27	RT	28	BANKS AVE S TURN LANE
STA 136+64 - STA 137+24	RT	67	SIDEWALK AT BANKS SW RAD
STA 136+64 - STA 137+25	RT	23	PARKING LOT AT BANKS SW RAD
STA 138+07 - STA 140+55	RT	166	
STA 137+80 - STA 141+04	RT	289	MAINLINE SIDEWALK
STA 142+93 - STA 144+43	RT	25	BUS PULL OUT
STA 143+50 - STA 145+00	RT	147	PARKING LOT
STA 141+73 - STA 145+01	RT	268	MAINLINE SIDEWALK
STA 146+15 - STA 147+60	RT	93	
STA 146+15 - STA 147+60	RT	121	MAINLINE SIDEWALK
STA 184+60 - STA 189+15	RT	323	
STA 184+60 - STA 189+15	RT	202	MAINLINE SIDEWALK
STA 189+15 - STA 196+24	RT	495	
STA 189+15 - STA 196+24	RT	457	MAINLINE SIDEWALK
STA 196+34 - STA 201+44	RT	359	
STA 196+34 - STA 201+44	RT	210	MAINLINE SIDEWALK
STA 201+44 - STA 208+33	RT	520	
STA 201+44 - STA 208+33	RT	320	MAINLINE SIDEWALK
STA 208+33 - STA 210+18	RT	157	
STA 208+33 - STA 210+18	RT	91	MAINLINE SIDEWALK
SIDE ROADS			
STA 438+64 - STA 439+36	LT/RT	237	MORTORELLI DR
STA 438+64 - STA 439+36	LT	19	MORTORELLI DR - SIDEWALK
STA 438+73 - STA 439+15	RT	26	MORTORELLI DR - DRIVEWAY
STA 469+00 - STA 469+41	LT/RT	234	ELM AVE S / A HAYES CT
STA 469+00 - STA 469+41	LT	7	ELM AVE S - SIDEWALK
STA 469+00 - STA 469+11	RT	13	ELM AVE S - SIDEWALK
		703	UNDISTRIBUTED - STAGING
CAT 0010 STAGE 1 TOTAL		5600	
STAGE 2			
STA 136+54 - STA 136+98	LT	42	BANKS AVE N TURN LANE
STA 136+98 - STA 137+34	LT	45	BANKS AVE N ISLAND
STA 136+00 - STA 137+06	LT	63	SIDEWALK AT BANKS NW RAD
STA 138+07 - STA 140+55	LT	166	
STA 137+74 - STA 141+02	LT	277	MAINLINE SIDEWALK
STA 138+57	LT	7	DRIVEWAY
STA 141+71 - STA 145+00	LT	203	MAINLINE SIDEWALK
STA 146+15 - STA 147+60	LT	118	
STA 146+15 - STA 147+60	LT	107	MAINLINE SIDEWALK
STA 184+60 - STA 185+79	LT	91	
STA 184+60 - STA 185+79	LT	51	MAINLINE SIDEWALK
STA 185+79 - STA 188+74	LT	213	
STA 185+79 - STA 188+74	LT	132	MAINLINE SIDEWALK
STA 188+74 - STA 191+70	LT	222	
STA 188+74 - STA 191+70	LT	165	MAINLINE SIDEWALK
STA 191+70 - STA 196+24	LT	321	
STA 191+70 - STA 196+24	LT	172	MAINLINE SIDEWALK
STA 196+34 - STA 198+21	LT	136	
STA 196+34 - STA 198+21	LT	85	MAINLINE SIDEWALK
STA 198+21 - STA 201+46	LT	250	
STA 198+21 - STA 201+46	LT	151	MAINLINE SIDEWALK
STA 201+46 - STA 204+75	LT	249	
STA 201+46 - STA 204+75	LT	152	MAINLINE SIDEWALK
STA 204+75 - STA 208+33	LT	265	
STA 204+75 - STA 208+33	LT	224	MAINLINE SIDEWALK
STA 208+33 - STA 210+18	LT	114	
STA 208+33 - STA 210+18	LT	67	MAINLINE SIDEWALK
SIDE ROADS			
STA 420+60 - STA 420+90	LT/RT	57	BIRCH AVE
STA 420+60 - STA 420+90	LT	12	BIRCH AVE - SIDEWALK
STA 420+60 - STA 420+90	RT	15	BIRCH AVE - SIDEWALK
STA 430+49 - STA 430+60	LT/RT	41	CYPRESS AVE
STA 430+49 - STA 430+60	RT	5	CYPRESS AVE - SIDEWALK
STA 450+60 - STA 451+25	LT/RT	216	POPLAR AVE
STA 450+60 - STA 451+25	LT	15	POPLAR AVE - SIDEWALK
STA 450+60 - STA 451+25	RT	18	POPLAR AVE - DRIVEWAY
STA 460+60 - STA 461+05	LT/RT	112	PINE AVE N
STA 460+60 - STA 461+05	LT	17	PINE AVE N - SIDEWALK
STA 460+60 - STA 461+05	RT	12	PINE AVE N - SIDEWALK
SUBTOTAL		4608	

CONT. BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120* 1 1/4-INCH TON	REMARKS
STAGE 2			
SIDE ROADS CONT.			
STA 470+70 - STA 471+00	LT/RT	59	ELM AVE N
STA 470+70 - STA 471+00	LT	6	ELM AVE N - SIDEWALK
STA 470+70 - STA 471+00	RT	6	ELM AVE N - SIDEWALK
STA 480+60 - STA 480+97	LT/RT	116	CEDAR AVE N
STA 480+84 - STA 481+00	LT	3	CEDAR AVE N - SIDEWALK
STA 480+60 - STA 480+97	RT	18	CEDAR AVE N - SIDEWALK
STA 500+65 - STA 500+78	LT/RT	40	HILL AVE N
STA 500+65 - STA 500+78	LT	3	HILL AVE N - SIDEWALK
		841	UNDISTRIBUTED - STAGING
CAT 0010 STAGE 2 TOTAL		5700	
STAGE 3			
USH 2 - MEDIAN			
STA 138+07 - STA 140+55	CL	77	
STA 146+15 - STA 147+60	CL	43	
STA 184+60 - STA 185+79	CL	35	
STA 185+79 - STA 188+74	CL	87	
STA 188+74 - STA 191+70	CL	88	
STA 191+70 - STA 196+24	CL	136	
STA 196+34 - STA 198+21	CL	56	
STA 198+21 - STA 201+46	CL	96	
STA 201+46 - STA 204+75	CL	97	
STA 204+75 - STA 208+33	CL	106	
STA 208+33 - STA 210+18	CL	54	
		125	UNDISTRIBUTED - STAGING
CAT 0010 STAGE 3 TOTAL		1000	
STAGE 4			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	RT	99	
STA 147+60 - STA 148+92	RT	89	MAINLINE SIDEWALK
STA 147+50 - STA 148+50	RT	75	PARKING LOT
STA 148+92 - STA 152+62	RT	291	
STA 148+92 - STA 152+62	RT	206	MAINLINE SIDEWALK
STA 149+50	RT	49	PARKING LOT
STA 152+62 - STA 156+47	RT	311	
STA 152+62 - STA 156+47	RT	179	MAINLINE SIDEWALK
STA 156+47 - STA 160+32	RT	309	
STA 156+47 - STA 160+32	RT	182	MAINLINE SIDEWALK
STA 160+32 - STA 164+02	RT	289	
STA 160+32 - STA 164+02	RT	180	MAINLINE SIDEWALK
STA 160+32 - STA 164+03	RT	40	DRIVEWAY/PARKING
STA 164+02 - STA 167+73	RT	295	
STA 164+02 - STA 167+73	RT	191	MAINLINE SIDEWALK
STA 165+30	RT	14	DRIVEWAY
STA 166+50	RT	95	PARKING
STA 167+73 - STA 174+10	RT	483	
STA 167+73 - STA 174+10	RT	374	MAINLINE SIDEWALK
STA 174+10 - STA 178+70	RT	356	
STA 174+10 - STA 178+70	RT	207	MAINLINE SIDEWALK
STA 178+70 - STA 182+53	RT	284	
STA 178+70 - STA 182+53	RT	166	MAINLINE SIDEWALK
STA 182+53 - STA 184+60	RT	154	
STA 182+53 - STA 184+60	RT	103	MAINLINE SIDEWALK
SIDE ROADS			
STA 298+80 - STA 299+31	LT/RT	109	JOHN AVE S
STA 298+80 - STA 299+31	LT	16	JOHN AVE S - SIDEWALK
STA 298+80 - STA 299+31	RT	16	JOHN AVE S - SIDEWALK
STA 309+05 - STA 309+46	LT/RT	112	HUGHITT AVE S
STA 309+05 - STA 309+46	LT	18	HUGHITT AVE S - SIDEWALK
STA 309+05 - STA 309+46	RT	23	HUGHITT AVE S - SIDEWALK
STA 309+05 - STA 309+31	LT/RT	13	HUGHITT AVE S - DRIVEWAY/PARKING
STA 329+15 - STA 329+41	LT/RT	44	HAMMOND AVE S
STA 329+15 - STA 329+42	LT/RT	111	HAMMOND AVE S - PARKING
STA 329+15 - STA 329+41	LT	15	HAMMOND AVE S - SIDEWALK
STA 329+15 - STA 329+41	RT	11	HAMMOND AVE S - SIDEWALK
STA 339+00 - STA 339+46	LT/RT	142	CUMMING AVE S
STA 339+00 - STA 339+46	LT	23	CUMMING AVE S - SIDEWALK
STA 339+00 - STA 339+46	RT	15	CUMMING AVE S - SIDEWALK
SUBTOTAL		5689	

CONT. BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120* 1 1/4-INCH TON	REMARKS
STA 348+95 - STA 349+46	LT/RT	133	BAXTER AVE S
STA 348+95 - STA 349+46	LT	21	BAXTER AVE S - SIDEWALK
STA 348+95 - STA 349+46	RT	22	BAXTER AVE S - SIDEWALK
STA 358+85 - STA 359+35	LT/RT	65	LAMBORN AVE S
STA 358+85 - STA 359+35	LT	19	LAMBORN AVE S - SIDEWALK
STA 358+85 - STA 359+35	RT	31	LAMBORN AVE S - SIDEWALK
STA 389+10 - STA 389+40	LT/RT	62	CLOUGH AVE S
STA 389+10 - STA 389+40	LT	15	CLOUGH AVE S - SIDEWALK
STA 389+10 - STA 389+40	RT	11	CLOUGH AVE S - SIDEWALK
SUBTOTAL		379	
SIDE ROADS			
STA 398+20 - STA 399+41	LT/RT	333	FISHER AVE S
STA 398+20 - STA 399+41	LT	32	FISHER AVE S - SIDEWALK
STA 408+00 - STA 409+40	LT/RT	603	CATILIN AVE S
STA 408+00 - STA 409+40	LT	44	CATLIN AVE S - SIDEWALK
STA 408+00 - STA 409+40	RT	56	CATLIN AVE S - SIDEWALK
		1064	UNDISTRIBUTED - STAGING
CAT 0010 STAGE 4 TOTAL		8200	
STAGE 5			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	LT	98	
STA 147+60 - STA 148+92	LT	74	MAINLINE SIDEWALK
STA 148+92 - STA 152+62	LT	289	
STA 148+92 - STA 152+62	LT	193	MAINLINE SIDEWALK
STA 152+62 - STA 156+47	LT	305	
STA 152+62 - STA 156+47	LT	159	MAINLINE SIDEWALK
STA 156+47 - STA 160+32	LT	307	
STA 156+47 - STA 160+32	LT	225	MAINLINE SIDEWALK
STA 160+32 - STA 164+02	LT	287	
STA 160+32 - STA 164+02	LT	175	MAINLINE SIDEWALK
STA 164+02 - STA 167+73	LT	301	
STA 164+02 - STA 167+73	LT	170	MAINLINE SIDEWALK
STA 167+73 - STA 171+43	LT	304	
STA 167+73 - STA 171+43	LT	174	MAINLINE SIDEWALK
STA 171+43 - STA 178+83	LT	594	
STA 171+43 - STA 178+83	LT	346	MAINLINE SIDEWALK
STA 178+83 - STA 182+53	LT	278	
STA 178+83 - STA 182+53	LT	178	MAINLINE SIDEWALK
STA 182+53 - STA 184+60	LT	154	
STA 182+53 - STA 184+60	LT	96	MAINLINE SIDEWALK
SIDE ROADS			
STA 300+64 - STA 301+25	LT/RT	127	JOHN AVE N
STA 300+64 - STA 301+25	LT	23	JOHN AVE N - SIDEWALK
STA 300+64 - STA 301+25	RT	45	JOHN AVE N - SIDEWALK/DRIVEWAY
STA 310+54 - STA 311+00	LT/RT	135	HUGHITT AVE N
STA 310+54 - STA 311+00	LT	19	HUGHITT AVE N - SIDEWALK
STA 310+54 - STA 311+00	RT	20	HUGHITT AVE N - SIDEWALK
STA 330+59 - STA 331+00	LT/RT	70	HAMMOND AVE N
STA 330+59 - STA 331+00	LT	10	HAMMOND AVE N - SIDEWALK
STA 330+59 - STA 331+00	RT	25	HAMMOND AVE N - SIDEWALK
STA 340+55 - STA 340+95	LT/RT	134	CUMMING AVE N
STA 340+55 - STA 340+95	LT	17	CUMMING AVE N -SIDEWALK
STA 340+55 - STA 340+95	RT	14	CUMMING AVE N -SIDEWALK
STA 350+54 - STA 351+00	LT/RT	102	BAXTER AVE N
STA 350+54 - STA 351+00	LT	5	BAXTER AVE N - SIDEWALK
STA 350+54 - STA 351+00	RT	26	BAXTER AVE N - SIDEWALK
STA 370+60 - STA 371+10	LT/RT	236	GRAND AVE N
STA 370+60 - STA 371+10	LT	48	GRAND AVE N - SIDEWALK
STA 370+60 - STA 371+10	RT	27	GRAND AVE N - SIDEWALK
STA 380+60 - STA 380+85	LT/RT	59	WEEKS AVE N
STA 380+60 - STA 380+85	LT	5	WEEKS AVE N - SIDEWALK
STA 380+60 - STA 380+85	RT	6	WEEKS AVE N - SIDEWALK
STA 400+60 - STA 401+00	LT/RT	160	FISHER AVE N
STA 400+60 - STA 401+00	LT	7	FISHER AVE N - SIDEWALK
STA 400+60 - STA 401+00	RT	17	FISHER AVE N - SIDEWALK
STA 410+60 - STA 411+75	LT/RT	377	CATLIN AVE N
STA 410+60 - STA 411+75	LT	40	CATLIN AVE N - SIDEWALK
STA 410+60 - STA 411+75	RT	33	CATLIN AVE N - SIDEWALK
		1006	UNDISTRIBUTED - STAGING
CAT 0010 STAGE 5 TOTAL		7500	

CONT. BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120* 1 1/4-INCH TON	REMARKS
STAGE 6			
USH 2 - MEDIAN			
STA 147+60 - STA 148+92	LT/RT	39	
STA 148+92 - STA 152+62	LT/RT	110	
STA 152+62 - STA 156+47	LT/RT	114	
STA 156+47 - STA 160+32	LT/RT	114	
STA 160+32 - STA 164+02	LT/RT	109	
STA 164+02 - STA 167+73	LT/RT	109	
STA 167+73 - STA 171+43	LT/RT	110	
STA 171+43 - STA 174+10	LT/RT	79	
SUBTOTAL		784	
SIDE ROADS			
STA 174+10 - STA 178+83	LT/RT	140	
STA 178+83 - STA 182+53	LT/RT	110	
STA 182+53 - STA 184+60	LT/RT	61	
		205	UNDISTRIBUTED - STAGING
CAT 0010 STAGE 6 TOTAL		1300	
PROJECT 8680-00-71 CAT 0010 TOTAL		29300	
PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
STA 687+19 - STA 687+35	LT	9	TOWER S - SIDEWALK
STA 687+05 - STA 687+36	RT	16	TOWER S - SIDEWALK
STA 98+32 - STA 99+35	LT	28	OGDEN S - SIDEWALK
STA 99+17 - STA 99+35	RT	8	OGDEN S - SIDEWALK
STA 437+75 - STA 438+64	LT/RT	300	MORTORELLI DR
STA 437+75 - STA 438+64	LT	20	MORTORELLLI DR - SIDEWALK
STA 467+18 - 469+00	LT/RT	458	ELM AVE S
STA 467+18 - 469+00	LT	46	ELM AVE S - SIDEWALK
STA 467+18 - 469+00	RT	49	ELM AVE S - SIDEWALK
		166	UNDISTRIBUTED - STAGING
CAT 0080 STAGE 1 TOTAL		1100	
STAGE 2			
STA 100+63 - STA 100+83	LT	9	OGDEN N - SIDEWALK
STA 100+63 - STA 100+83	RT	9	OGDEN N - SIDEWALK
STA 420+90 - STA 422+15	LT/RT	276	BIRCH AVE
STA 420+90 - STA 422+15	LT	30	BIRCH AVE - SIDEWALK
STA 420+90 - STA 422+15	RT	32	BIRCH AVE - SIDEWALK
STA 430+60 - STA 432+60	LT/RT	596	CYPRESS AVE
STA 430+60 - STA 431+95	LT	51	CYPRESS AVE - SIDEWALK
STA 430+60 - STA 432+60	RT	43	CYPRESS AVE - SIDEWALK
STA 451+25 - STA 452+25	LT/RT	303	POPLAR AVE
STA 451+25 - STA 452+25	LT	26	POPLAR AVE - SIDEWALK
STA 451+52 - STA 451+68	RT	10	POPLAR AVE - DRIVEWAY
STA 461+05 - STA 461+75	LT/RT	186	PINE AVE N
STA 461+05 - STA 461+75	LT	13	PINE AVE N - SIDEWALK
STA 461+05 - STA 461+75	RT	14	PINE AVE N - SIDEWALK
STA 471+00 - STA 472+15	LT/RT	235	ELM AVE N
STA 471+00 - STA 472+15	LT	38	ELM AVE N - SIDEWALK
STA 471+00 - STA 472+15	RT	41	ELM AVE N - SIDEWALK
STA 481+00 - STA 482+15	LT/RT	296	CEDAR AVE N
STA 481+00 - STA 482+15	LT	28	CEDAR AVE N - SIDEWALK
STA 481+00 - STA 482+15	RT	29	CEDAR AVE N - SIDEWALK
STA 500+79 - STA 501+89	LT/RT	238	HILL AVE N
STA 500+79 - STA 501+50	LT	13	HILL AVE N - SIDEWALK
		384	UNDISTRIBUTED - STAGING
CAT 0080 STAGE 2 TOTAL		2900	
STAGE 4			
STA 297+72 - STA 298+80	LT/RT	232	JOHN AVE S
STA 297+72 - STA 298+80	LT	32	JOHN AVE S - SIDEWALK
STA 297+72 - STA 298+80	RT	37	JOHN AVE S - SIDEWALK
STA 298+00 - STA 298+80	LT	54	PARKING LOT
SUBTOTAL		355	

CONT. BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120* 1 1/4-INCH TON	REMARKS
STA 298+23	RT	58	PARKING LOT
STA 307+80 - STA 309+05	LT/RT	334	HUGHITT AVE S
STA 307+80 - STA 309+05	LT	44	HUGHITT AVE S - SIDEWALK
STA 307+80 - STA 309+05	RT	37	HUGHITT AVE S - SIDEWALK
STA 307+80 - STA 309+05	LT/RT	22	HUGHITT AVE S - DRIVEWAY/PARKING
STA 337+75 - STA 339+00	LT/RT	369	CUMMING AVE S
STA 337+75 - STA 339+00	LT	35	CUMMING AVE S - SIDEWALK
STA 337+75 - STA 339+00	RT	35	CUMMING AVE S - SIDEWALK
STA 338+10- STA 338+25	LT/RT	4	CUMMING AVE S - DRIVEWAY
STA 347+78 - STA 348+95	LT/RT	287	BAXTER AVE S
STA 347+78 - STA 348+95	LT	30	BAXTER AVE S - SIDEWALK
STA 347+78 - STA 348+95	RT	34	BAXTER AVE S - SIDEWALK
STA 348+10 - STA 348+25	LT/RT	5	BAXTER AVE S - DRIVEWAY
STA 387+25 - STA 389+10	LT/RT	338	CLOUGH AVE S
STA 387+25 - STA 389+10	LT	49	CLOUGH AVE S - SIDEWALK
STA 387+25 - STA 389+10	RT	56	CLOUGH AVE S - SIDEWALK
STA 398+05 - STA 398+20	LT/RT	115	FISHER AVE S
		393	UNDISTRIBUTED - STAGING
CAT 0080 STAGE 4 TOTAL		2600	
STAGE 5			
STA 301+25 - STA 302+17	LT/RT	197	JOHN AVE N
STA 301+25 - STA 302+17	LT	32	JOHN AVE N - SIDEWALK
STA 301+25 - STA 302+17	RT	28	JOHN AVE N - SIDEWALK
STA 311+00 - STA 312+20	LT/RT	346	HUGHITT AVE N
STA 311+00 - STA 312+20	LT	29	HUGHITT AVE N - SIDEWALK
STA 311+00 - STA 312+20	RT	43	HUGHITT AVE N - SIDEWALK
STA 340+95 - STA 342+56	LT/RT	485	CUMMING AVE N
STA 340+95 - STA 342+37	LT	43	CUMMING AVE N - SIDEWALK
STA 340+95 - STA 342+56	RT	48	CUMMING AVE N - SIDEWALK
STA 351+00 - STA 352+29	LT/RT	320	BAXTER AVE N
STA 351+00 - STA 352+29	LT	34	BAXTER AVE N - SIDEWALK
STA 351+00 - STA 352+29	RT	58	BAXTER AVE N - SIDEWALK
STA 380+85 - STA 382+50	LT/RT	417	WEEKS AVE
STA 380+85 - STA 382+50	LT	31	WEEKS AVE - SIDEWALK
STA 380+85 - STA 382+50	RT	46	WEEKS AVE - SIDEWALK
STA 401+00 - STA 402+15	LT/RT	423	FISHER AVE N
STA 401+06 - STA 401+23	LT	8	FISHER AVE N - SIDEWALK
STA 401+00 - STA 402+86	RT	21	FISHER AVE N - SIDEWALK
		391	UNDISTRIBUTED - STAGING
CAT 0080 STAGE 5 TOTAL		3000	
PROJECT 8680-00-71 CAT 0080 TOTAL		9600	
PROJECT 8680-00-71 TOTAL		38900	

CONT. BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120* 1 1/4-INCH TON	REMARKS
PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
STA 497+75 - STA 498+80	LT/RT	374	HILL ST S
STA 497+63 - STA 498+94.	LT	31	SIDEWALK - HILL ST S
STA 497+75 - STA 498+98	RT	43	SIDEWALK - HILL ST S
		102	UNDISTRIBUTED - STAGING
PROJECT 8998-00-24 STAGE 1 TOTAL		550	
STAGE 4			
STA 327+80 - STA 329+15	LT/RT	234	HAMMOND S
STA 327+80 - STA 329+15	LT	38	HAMMOND S - SIDEWALK
STA 327+80 - STA 329+15	RT	52	HAMMOND S - SIDEWALK
STA 328+85 - STA 329+15	RT	99	HAMMOND S - PARKING
STA 328+00 - STA 328+25	LT/RT	12	HAMMOND S - DRIVEWAY
STA 100+39 - STA 101+67	LT/RT	119	GRAND AVE SOUTH
STA 100+43 - STA 101+66	LT	51	GRAND AVE S - SIDEWALK
STA 100+40 - STA 101+22	RT	16	GRAND AVE S - SIDEWALK
STA 357+79 - STA 358+85	LT/RT	146	LAMBORN S
STA 357+79 - STA 358+85	LT	33	LAMBORN S - SIDEWALK
STA 357+79 - STA 358+31	RT	16	LAMBORN S - SIDEWALK
STA 407+83 - STA 408+00	LT/RT	73	CATLIN AVE S
STA 407+77 - STA 408+00	LT	7	CATLIN AVE S - SIDEWALK
		154	UNDISTRIBUTED - STAGING
PROJECT 8998-00-24 STAGE 4 TOTAL		1050	
STAGE 5			
STA 371+10 - STA 372+07	LT/RT	459	GRAND AVE N
STA 371+10 - STA 372+07	LT	21	GRAND AVE N - SIDEWALK
STA 371+10 - STA 372+07	RT	22	GRAND AVE N - SIDEWALK
STA 411+75 - STA 412+50	LT/RT	224	CATLIN AVE N
STA 411+94 - STA 412+50	LT	18	CATLIN AVE N - SIDEWALK
STA 411+94 - STA 412+50	RT	16	CATLIN AVE N - SIDEWALK
		140	UNDISTRIBUTED - STAGING
PROJECT 8998-00-24 STAGE 5 TOTAL		900	
PROJECT 8998-00-24 TOTAL		2500	
COMBINED TOTAL (BOTH PROJECTS)		41400	

*SHOWN ELSEWHERE (DRIVEWAYS & PARKING LOTS)

3

BASE AGGREGATE OPEN GRADED

STATION - STATION	LOCATION	310.0110* TON	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 - MAINLINE			
STA 136+90 - STA 137+27	RT	41	BANKS AVE S TURN LANE
STA 138+07 - STA 140+55	RT	234	
STA 142+93 - STA 144+43	RT	71	BUS PULL OUT
STA 146+15 - STA 147+60	RT	131	
STA 184+60 - STA 189+15	RT	440	
STA 189+15 - STA 196+24	RT	669	
STA 196+34 - STA 201+44	RT	481	
STA 201+44 - STA 208+33	RT	703	
STA 208+33 - STA 210+18	RT	217	
CAT 0010 STAGE 1 TOTAL		2987	
STAGE 2			
USH 2 - MAINLINE			
STA 136+54 - STA 137+37	LT	79	BANKS AVE N TURN LANE
STA 138+07 - STA 140+55	LT	234	
STA 146+15 - STA 147+60	LT	169	
STA 184+60 - STA 185+79	LT	122	
STA 185+79 - STA 188+74	LT	289	
STA 188+74 - STA 191+70	LT	293	
STA 191+70 - STA 196+24	LT	429	
STA 196+34 - STA 198+21	LT	178	
STA 198+21 - STA 201+46	LT	333	
STA 201+46 - STA 204+75	LT	335	
STA 204+75 - STA 208+33	LT	360	
STA 208+33 - STA 210+18	LT	157	
CAT 0010 STAGE 2 TOTAL		2978	
STAGE 3			
USH 2 - MEDIAN			
STA 138+07 - STA 140+55	CL	73	
STA 146+15 - STA 147+60	CL	56	
STA 184+60 - STA 185+79	CL	34	
STA 185+79 - STA 188+74	CL	117	
STA 188+74 - STA 191+70	CL	83	
STA 191+70 - STA 196+24	CL	143	
STA 196+34 - STA 198+21	CL	76	
STA 198+21 - STA 201+46	CL	98	
STA 201+46 - STA 204+75	CL	93	
STA 204+75 - STA 208+33	CL	141	
STA 208+33 - STA 210+18	CL	52	
CAT 0010 STAGE 3 TOTAL		966	
STAGE 4			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	RT	136	
STA 148+92 - STA 152+62	RT	390	
STA 152+62 - STA 156+47	RT	404	
STA 156+47 - STA 160+32	RT	404	
STA 160+32 - STA 164+02	RT	380	
STA 164+02 - STA 167+73	RT	390	
STA 167+73 - STA 174+10	RT	644	
STA 174+10 - STA 178+70	RT	474	
STA 178+70 - STA 182+53	RT	380	
STA 182+53 - STA 184+60	RT	205	
SIDEROADS			
STA 329+15 - STA 329+41	LT/RT	51	HAMMOND AVE S
STA 358+85 - STA 359+35	LT/RT	81	LAMBORN S
CAT 0010 STAGE 4 TOTAL		3939	

CONT. BASE AGGREGATE OPEN GRADED

STATION - STATION	LOCATION	310.0110* TON	REMARKS
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	LT	133	
STA 148+92 - STA 152+62	LT	386	
STA 152+62 - STA 156+47	LT	399	
STA 156+47 - STA 160+32	LT	402	
STA 160+32 - STA 164+02	LT	380	
STA 164+02 - STA 167+73	LT	391	
STA 167+73 - STA 171+43	LT	395	
STA 171+43 - STA 178+83	LT	781	
STA 178+83 - STA 182+53	LT	370	
STA 182+53 - STA 184+60	LT	205	
SIDEROADS			
STA 330+59 - STA 331+00	LT/RT	82	HAMMOND AVE N
CAT 0010 STAGE 5 TOTAL		3924	
STAGE 6			
USH 2 - MEDIAN			
STA 147+60 - STA 148+92	LT/RT	68	
STA 148+92 - STA 152+62	LT/RT	118	
STA 152+62 - STA 156+47	LT/RT	108	
STA 156+47 - STA 160+32	LT/RT	108	
STA 160+32 - STA 164+02	LT/RT	104	
STA 164+02 - STA 167+73	LT/RT	124	
STA 167+73 - STA 171+43	LT/RT	118	
STA 171+43 - STA 174+10	LT/RT	106	
STA 174+10 - STA 178+83	LT/RT	151	
STA 178+83 - STA 182+53	LT/RT	104	
STA 182+53 - STA 184+60	LT/RT	58	
CAT 0010 STAGE 6 TOTAL		1167	
PROJECT 8680-00-71 CAT 0010 TOTAL		15961	
PROJECT 8998-00-24			
STAGE 4			
STA 327+80 - STA 329+15	LT/RT	223	HAMMOND S
STA 100+39 - STA 101+67	LT/RT	115	GRAND AVE SOUTH
STA 357+79 - STA 358+85	LT/RT	139	LAMBORN S
PROJECT 8998-00-24 STAGE 4 TOTAL		477	
PROJECT 8998-00-24 TOTAL		477	
COMBINED TOTAL (BOTH PROJECTS)		**16438**	

*SHOWN ELSEWHERE IN PLAN (UNDERDRAIN TRENCH)

3

CONCRETE PAVMENT GAPS

STATION	LOCATION	415.0210 EACH
PROJECT 8680-00-71		
CAT 0010		
STAGE 1-3		
135+28 - 147+90	LT/RT	5
184+60 - 210+18	LT/RT	5
STAGE 4-7		
147+90 - 184+60	LT/RT	10
ROJECT 8680-00-71 CAT 0010 TOTAL		20

CONCRETE PAVEMENT REPLACEMENT

STATION	LOCATION	416.1720 SY
PROJECT 8680-00-71		
CAT 0010		
STAGE 1		
141+79 - 141+91	RT	24
144+61 - 144+73	RT	15
145+23 - 145+35	RT	22
145+96 - 145+82	RT	16
STAGE 2		
141+65 - 142+50	LT	107
144+48 - 144+60	LT	23
144+87 - 145+81	LT	270
STAGE 3		
144+18 - 144+47	LT/RT	42
145+17 - 145+27	LT/RT	10
PROJECT 8680-00-71 CAT 0010 TOTAL		**530**
PROJECT 8680-00-71		
CAT 0080		
STA 684+10 - STA 685+76	LT/RT	184
PROJECT 8680-00-71 CAT 0080 TOTAL		**184**
COMBINED PROJECT TOTAL		**714**

CONCRETE DRIVEWAY HES, 6-INCH

STATION - STATION	LOCATION	416.0260 SY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 - MAINLINE			
STA 184+76 - STA 185+01	RT	23	
STA 190+76 - STA 191+20	RT	42	
STA 193+79 - STA 194+73	RT	92	
STA 198+88 - STA 199+32	RT	43	
STA 208+97 - STA 209+26	RT	28	
CAT 0010 STAGE 1 TOTAL		228	
STAGE 2			
USH 2 - MAINLINE			
STA 138+52 - STA 138+86	LT	34	
STA 139+62 - STA 140+01	LT	65	
STA 187+18 - STA 187+52	LT	31	
STA 190+26 - STA 190+59	LT	31	
STA 193+16 - STA 193+60	LT	43	
STA 199+82 - STA 200+10	LT	25	
STA 203+16 STA 203+50	LT	31	
STA 206+35 - STA 206+65	LT	26	
SIDE ROADS			
STA 450+73 - STA 451+13	RT	55	POPLAR AVE N
STA 480+60 - STA 480+97	RT	47	CEDAR AVE N
CAT 0010 STAGE 2 TOTAL		388	
STAGE 4			
USH 2 - MAINLINE			
STA 147+97 - STA 148+26	RT	27	
STA 149+63 - STA 149+90	RT	29	
STA 154+32 - STA 154+56	RT	22	
STA 154+96 - STA 155+20	RT	22	
STA 158+22 - STA 158+46	RT	23	
STA 161+30 - STA 161+62	RT	31	
STA 162+61 - STA 162+94	RT	32	
STA 165+20 - STA 165+52	RT	31	
STA 169+74 - STA 170+29	RT	51	
STA 172+40 - STA 172+95	RT	67	
STA 180+73 - STA 180+98	RT	23	
SIDE ROADS			
STA 309+00 - STA 309+33	RT	39	HUGHITT AVE S
STA 358+72 - STA 359+04	LT	33	LAMBORN AVE
STA 358+91 - STA 359+24	RT	51	LAMBORN AVE
STA 408+29 - STA 408+62	LT	27	CATLIN AVE S
STA 408+02 - STA 408+31	RT	59	CATLIN AVE S
CAT 0010 STAGE 4 TOTAL		567	
STAGE 5			
USH 2 - MAINLINE			
STA 149+28 - STA 150+01	LT	56	
STA 149+74 - STA 150+04	LT	27	
STA 150+98 - STA 151+31	LT	31	
STA 161+01 - STA 161+42	LT	39	
STA 172+60 - STA 172+89	LT	27	
STA 176+18 - STA 176+52	LT	31	
STA 180+93 - STA 181+32	LT	38	
STA 184+19 - STA 184+58	LT	38	
SIDE ROADS			
STA 300+55 - STA 300+76	RT	37	JOHN AVE S
STA 340+64 - STA 340+85	RT	15	CUMMING AVE N
STA 370+83 - STA 371+12	LT	88	GRAND AVE
STA 380+78 - STA 380+96	RT	21	WEEKS AVE N
STA 400+76 - STA 401+08	RT	33	FISHER AVE N
STA 410+90 - STA 411+30	RT	32	CATLIN AVE N
CAT 0010 STAGE 5 TOTAL		513	
PROJECT 8680-00-71 CAT 0010 TOTAL		1696	

CONT. CONCRETE DRIVEWAY HES, 6-INCH

STATION - STATION	LOCATION	416.0260 SY	REMARKS
PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
STA 98+35 - STA 99+68	LT	30	ODGEN AVE S
STA 466+88 - STA 467+32	LT	43	ELM AVE S
STA 467+18 -STA 467+47	RT	38	ELM AVE S
STA 467+48 - STA 467+72	RT	29	ELM AVE S
CAT 0080 STAGE 1 TOTAL		140	
STAGE 2			
STA 421+16 - STA 421+48	RT	31	BIRCH AVE N
STA 421+52 - STA 421+72	LT	18	BIRCH AVE N
STA 421+73 - STA 421+99	LT	24	BIRCH AVE N
STA 421+73 - STA 421+98	RT	23	BIRCH AVE N
STA 431+72 - STA 431+98	RT	18	CYPRESS AVE N
STA 431+74 - STA 432+00	LT	55	CYPRESS AVE N
STA 451+48 - STA 451+72	RT	30	POPLAR AVE N
STA 451+70 - STA 451+97	LT	43	POPLAR AVE N
STA 471+24 - STA 471+54	RT	44	ELM AVE N
STA 471+48 - STA 471+74	LT	37	ELM AVE N
STA 471+75 - STA 471+98	LT	32	ELM AVE N
STA 471+74 - STA 471+99	RT	35	ELM AVE N
STA 481+73 - STA 482+00	RT	33	CEDAR AVE N
CAT 0080 STAGE 2 TOTAL		423	
STAGE 4			
STA 298+01 - STA 298+34	LT	44	JOHN AVE S
STA 298+03 - STA 298+46	RT	65	JOHN AVE S
STA 307+96 - STA 308+40	LT	76	HUGHITT AVE S
STA 307+98 - STA 308+23	RT	30	HUGHITT AVE S
STA 308+48 - STA 308+69	RT	21	HUGHITT AVE S
STA 338+05 - STA 338+31	RT	24	CUMMING AVE S
STA 338+11 - STA 338+27	LT	35	CUMMING AVE S
STA 348+06 - STA 348+30	LT	29	BAXTER AVE S
STA 348+06 - STA 348+30	RT	31	BAXTER AVE S
STA 387+58 - STA 387+83	RT	37	CLOUGH AVE S
STA 387+94 - STA 388+20	RT	33	CLOUGH AVE S
STA 387+98 - STA 388+23	LT	41	CLOUGH AVE S
CAT 0080 STAGE 4 TOTAL		466	
STAGE 5			
STA 301+60 - STA 301+99	LT	56	JOHN AVE N
STA 301+73 - STA 301+98	RT	32	JOHN AVE N
STA 311+72 - STA 311+98	LT	31	HUGHITT AVE N
STA 311+74 - STA 312+11	RT	75	HUGHITT AVE N
STA 341+71 - STA 341+98	RT	27	CUMMING AVE N
STA 381+90 - STA 382+23	RT	43	WEEKS AVE N
STA 401+71 - STA 401+96	RT	26	FISHER AVE N
CAT 0080 STAGE 5 TOTAL		290	
PROJECT 8680-00-71 CAT 0080 TOTAL		1319	
PROJECT 8680-00-71 TOTAL		3015	
PROJECT 8998-00-24			
CAT 0010			
STAGE 4			
STA 327+96 - STA 328+21	LT	20	HAMMOND AVE
STA 328+03 - STA 328+28	RT	27	HAMMOND AVE
STA 101+10 - STA 101+64	LT	69	SOUTH GRAND AVE
STA 358+07 - STA 358+32	LT	24	LAMBORN AVE
PROJECT 8998-00-24 STAGE 4 TOTAL		140	
STAGE 5			
STA 411+70 - STA 411+95	LT	30	CATILIN AVE
STA 411+74 - STA 411+99	RT	27	CATILIN AVE
PROJECT 8998-00-24 STAGE 5 TOTAL		57	
PROJECT 8998-00-24 TOTAL		197	
COMBINED TOTAL (BOTH PROJECTS)		**3212**	

DRILLED TIE AND DOWEL BARS

STATION - STATION	LOCATION	416.0610 TIE BARS EACH	416.0620 DOWEL BARS EACH	REMARKS
PROJECT 8680-00-71				
CAT 0010				
STAGE 1				
USH 2 - MAINLINE				
STA 136+90 - STA 137+24	RT	52	17	SW QUAD BANKS AVE - TURN LANE
STA 137+80 - STA 138+07	RT	18	0	SE QUAD BANKS AVE - CURB
STA 138+07	RT	0	25	ML CONNECT TO EXIST
STA 140+66	RT	0	25	ML CONNECT TO EXIST
STA 140+66 - STA 141+04	RT	26	0	SW QUAD TOWER AVE - CURB
STA 141+73 - STA 145+01	RT	149	0	CURB AND BUS TURNOUT (TOWER - OGDEN)
STA 145+44 - STA 146+15	RT	35	0	SE QUAD OGDEN AVE - CURB
STA 146+15	RT	0	25	ML CONNECT TO EXIST (BEGIN YR 1 PAVEMENT)
STA 210+18	RT	0	21	ML CONNECT TO EXIST (END YR 1 PAVEMENT)
CAT 0010 STAGE 1 TOTAL		280	113	
STAGE 2				
USH 2 - MAINLINE				
STA 136+54 - STA 137+37	LT	63	25	NW QUAD BANKS AVE - ISLAND
STA 137+74 - STA 138+07	LT	28	0	NE QUAD BANKS AVE - CURB
STA 138+07	LT	0	25	ML CONNECT TO EXIST
STA 140+66	LT	0	25	ML CONNECT TO EXIST
STA 104+66 - STA 141+02	LT	24	0	NW QUAD TOWER AVE - CURB
STA 141+69 - STA 142+36	LT	38	0	NE QUAD TOWER AVE - CURB
STA 144+40 - STA 145+00	LT	32	0	NW QUAD OGDEN AVE - CURB
STA 145+44 - STA 145+69	LT	37	0	NE QUAD OGDEN AVE - CURB
STA 146+15	LT	0	25	ML CONNECT TO EXIST (BEGIN YR 1 PAVEMENT)
STA 210+18	LT	0	17	ML CONNECT TO EXIST (END YR 1 PAVEMENT)
CAT 0010 STAGE 2 TOTAL		222	117	
STAGE 3				
USH 2 - MEDIAN				
STA 138+07	CL	0	11	ML CONNECT TO EXIST
STA 140+66	CL	0	11	ML CONNECT TO EXIST
STA 146+15	CL	0	11	ML CONNECT TO EXIST (BEGIN YR 1 PAVEMENT)
STA 210+18	CL	0	11	ML CONNECT TO EXIST (END YR 1 PAVEMENT)
CAT 0010 STAGE 3 TOTAL		0	44	
STAGE 4				
USH 2 - MAINLINE				
STA 147+60	RT	0	25	TEMP ASPHALT (END YR 1 PAVEMENT)
STA 184+60	RT	0	26	TEMP ASPHALT (END YR 1 PAVEMENT)
CAT 0010 STAGE 4 TOTAL		0	51	
STAGE 5				
USH 2 - MAINLINE				
STA 147+60	LT	0	25	TEMP ASPHALT (END YR 1 PAVEMENT)
STA 184+60	LT	0	26	TEMP ASPHALT (END YR 1 PAVEMENT)
CAT 0010 STAGE 5 TOTAL		0	51	
STAGE 6				
USH 2 - MEDIAN				
STA 147+60	CL	0	11	TEMP ASPHALT (END YR 1 PAVEMENT)
STA 184+60	CL	0	11	TEMP ASPHALT (END YR 1 PAVEMENT)
CAT 0010 STAGE 6 TOTAL		0	22	
PROJECT 8680-00-71 CAT 0010 TOTAL		502	398	
PROJECT 8998-00-24				
CAT 0010				
STAGE 4				
STA 327+80		0	58	HAMMOND STREET (CONNECT TO EXIST)
PROJECT 8998-00-24 STAGE 4 TOTAL		0	58	
STAGE 5				
STA 331+00		0	62	HAMMOND STREET (CONNECT TO EXIST)
PROJECT 8998-00-24 STAGE 5 TOTAL		0	62	
PROJECT 8998-00-24 CAT 0010 TOTAL		0	120	
COMBINED TOTAL (BOTH PROJECTS)		502	518	

ASPHALTIC PAVEMENT ITEMS

STATION - STATION	LOCATION	* 455.0605 TACK COAT GAL	460.6443 HMA PAVEMENT 3 MT 58-34 H TON	460.6444 HMA PAVEMENT 4 MT 58-34 H TON	SPV.0195.004 HMA PAVEMENT 3 MT 58-28 H TON	460.7644 HMA PAVEMENT 4 HT 58-34 V TON	REMARKS
PROJECT 8680-00-71							
CAT 0010							
STAGE 1							
USH 2 - MAINLINE							
STA 195+99 - STA 196+24	RT	130			27		RAILROAD APPROACH - LOWER LAYER
STA 195+99 - STA 196+24	RT					18	RAILROAD APPROACH - UPPER LAYER
STA 196+34 - STA 196+60	RT	129			27		RAILROAD APPROACH - LOWER LAYER
STA 196+34 - STA 196+60	RT					18	RAILROAD APPROACH - UPPER LAYER
SIDE ROADS							
STA 438+64 - STA 439+36	LT/RT	307	80				MORTORELLI DR - LOWER LAYERS
STA 438+64 - STA 439+36	LT/RT			32			MORTORELLI DR - UPPER LAYER
STA 469+00 - STA 469+41	LT/RT	173	54				ELM AVE S / A HAYES CT - LOWER LAYE
STA 469+00 - STA 469+41	LT/RT			36			ELM AVE S / A HAYES CT - UPPER LAYEI
CAT 0010 STAGE 1 TOTAL		739	134	68	54	36	
STAGE 2							
USH 2 - MAINLINE							
STA 195+99 - STA 196+24	LT	130			27		RAILROAD APPROACH - LOWER LAYER
STA 195+99 - STA 196+24	LT					18	RAILROAD APPROACH - UPPER LAYER
STA 196+34 - STA 196+60	LT	130			27		RAILROAD APPROACH - LOWER LAYER
STA 196+34 - STA 196+60	LT					18	RAILROAD APPROACH - UPPER LAYER
SIDE ROADS							
STA 420+60 - STA 420+90	LT/RT	51		11			BIRCH AVE - LOWER LAYER
STA 420+60 - STA 420+90	LT/RT			11			BIRCH AVE - UPPER LAYER
STA 430+49 - STA 430+60	LT/RT	24	8				CYPRESS AVE - LOWER LAYER
STA 430+49 - STA 430+60	LT/RT			5			CYPRESS AVE - UPPER LAYER
STA 450+60 - STA 451+25	LT/RT	140	44				POPLAR AVE - LOWER LAYERS
STA 450+60 - STA 451+25	LT/RT			29			POPLAR AVE - UPPER LAYER
STA 460+60 - STA 461+05	LT/RT	108		22			PINE AVE N - LOWER LAYER
STA 460+60 - STA 461+05	LT/RT			22			PINE AVE N - UPPER LAYER
STA 470+70 - STA 471+00	LT/RT	43	13				ELM AVE N - LOWER LAYER
STA 470+70 - STA 471+00	LT/RT			9			ELM AVE N - UPPER LAYER
STA 480+60 - STA 480+97	LT/RT	87	27				CEDAR AVE N - LOWER LAYER
STA 480+60 - STA 480+97	LT/RT			18			CEDAR AVE N - UPPER LAYER
STA 500+65 - STA 500+78	LT/RT	25		5			HILL AVE N - LOWER LAYER
STA 500+65 - STA 500+78	LT/RT			5			HILL AVE N - UPPER LAYER
CAT 0010 STAGE 2 TOTAL		738	92	137	54	36	
STAGE 4							
SIDE ROADS							
STA 298+80 - STA 299+31	LT/RT	78	24				JOHN AVE S - LOWER LAYER
STA 298+80 - STA 299+31	LT/RT			16			JOHN AVE S - UPPER LAYER
STA 309+05 - STA 309+46	LT/RT	85	26				HUGHITT AVE S - LOWER LAYER
STA 309+05 - STA 309+46	LT/RT			18			HUGHITT AVE S - UPPER LAYER
STA 339+00 - STA 339+46	LT/RT	110	34				CUMMING AVE S - LOWER LAYER
STA 339+00 - STA 339+46	LT/RT			23			CUMMING AVE S - UPPER LAYER
STA 348+95 - STA 349+46	LT/RT	101	31				BAXTER AVE S - LOWER LAYER
STA 348+95 - STA 349+46	LT/RT			21			BAXTER AVE S - UPPER LAYER
STA 389+10 - STA 389+40	LT/RT	59		12			CLOUGH AVE S - LOWER LAYER
STA 389+10 - STA 389+40	LT/RT			12			CLOUGH AVE S - UPPER LAYER
STA 398+20 - STA 399+41	LT/RT	407	106				FISHER AVE S - LOWER LAYERS
STA 398+20 - STA 399+41	LT/RT			42			FISHER AVE S - UPPER LAYER
STA 408+00 - STA 409+40	LT/RT	825	214				CATLIN AVE S - LOWER LAYERS
STA 408+00 - STA 409+40	LT/RT			86			CATLIN AVE S - UPPER LAYER
CAT 0010 STAGE 4 TOTAL		1665	435	230	0	0	

*QUANTITIES SHOWN ELSEWHERE. (ASPHALTIC SURFACE, ASPHALTIC SURFACE TEMPORARY)

CONT. ASPHALTIC PAVEMENT ITEMS

STATION - STATION	LOCATION	* 455.0605 TACK COAT GAL	460.6443 HMA PAVEMENT 3 MT 58-34 H TON	460.6444 HMA PAVEMENT 4 MT 58-34 H TON	SPV.0195.004 HMA PAVEMENT 3 MT 58-28 H TON	460.7644 HMA PAVEMENT 4 HT 58-34 V TON	REMARKS
STAGE 5							
SIDE ROADS							
STA 300+64 - STA 301+25	LT/RT	91		19			JOHN AVE N - LOWER LAYER
STA 300+64 - STA 301+25	LT/RT			19			JOHN AVE N - UPPER LAYER
STA 310+54 - STA 311+00	LT/RT	103	32				HUGHITT AVE N - LOWER LAYER
STA 310+54 - STA 311+00	LT/RT			21			HUGHITT AVE N - UPPER LAYER
STA 340+55 - STA 340+95	LT/RT	103	32				CUMMING AVE N - LOWER LAYER
STA 340+55 - STA 340+95	LT/RT			21			CUMMING AVE N - UPPER LAYER
STA 350+54 - STA 351+00	LT/RT	74	23				BAXTER AVE N - LOWER LAYER
STA 350+54 - STA 351+00	LT/RT			15			BAXTER AVE N - UPPER LAYER
STA 370+60 - STA 371+10	LT/RT	328	85				GRAND AVE N - LOWER LAYER
STA 370+60 - STA 371+10	LT/RT			34			GRAND AVE N - UPPER LAYER
STA 380+60 - STA 380+85	LT/RT	44	14				WEEKS AVE N - LOWER LAYER
STA 380+60 - STA 380+85	LT/RT			9			WEEKS AVE N - UPPER LAYER
STA 400+60 - STA 401+00	LT/RT	224	58				FISHER AVE N - LOWER LAYERS
STA 400+60 - STA 401+00	LT/RT			23			FISHER AVE N - UPPER LAYER
STA 410+60 - STA 411+75	LT/RT	489	127				CATLIN AVE N - LOWER LAYERS
STA 410+60 - STA 411+75	LT/RT			51			CATLIN AVE N - UPPER LAYER
CAT 0010 STAGE 5 TOTAL		1456	371	212	0	0	
PROJECT 8680-00-71 CAT 0010 TOTAL		4598	1032	647	108	72	
PROJECT 8680-00-71							
CAT 0080							
STAGE 1							
STA 437+75 - STA 438+64	LT/RT	389	101				MORTORELLI DR - LOWER LAYERS
STA 437+75 - STA 438+64	LT/RT			40			MORTORELLI DR - UPPER LAYER
STA 467+18 - STA 469+00	LT/RT	348	108				ELM AVE S - LOWER LAYER
STA 467+18 - STA 469+00	LT/RT			72			ELM AVE S - UPPER LAYER
CAT 0080 STAGE 1 TOTAL		737	209	112	0	0	
STAGE 2							
STA 420+90 - STA 422+15	LT/RT	268		56			BIRCH AVE - LOWER LAYER
STA 420+90 - STA 422+15	LT/RT			56			BIRCH AVE - UPPER LAYER
STA 430+60 - STA 432+60	LT/RT	442	138				CYPRESS AVE - LOWER LAYER
STA 430+60 - STA 432+60	LT/RT			92			CYPRESS AVE - UPPER LAYER
STA 451+25 - STA 452+25	LT/RT	192	60				POPLAR AVE - LOWER LAYER
STA 451+25 - STA 452+25	LT/RT			40			POPLAR AVE - UPPER LAYER
STA 461+05 - STA 461+75	LT/RT	182		38			PINE AVE N - LOWER LAYER
STA 461+05 - STA 461+75	LT/RT			38			PINE AVE N - UPPER LAYER
STA 471+00 - STA 472+15	LT/RT	165	51				ELM AVE N - LOWER LAYER
STA 471+00 - STA 472+15	LT/RT			34			ELM AVE N - UPPER LAYER
STA 481+00 - STA 482+15	LT/RT	226	70				CEDAR AVE N - LOWER LAYER
STA 481+00 - STA 482+15	LT/RT			47			CEDAR AVE N - UPPER LAYER
STA 500+79 - STA 501+89	LT/RT	219		45			HILL AVE N - LOWER LAYER
STA 500+79 - STA 501+89	LT/RT			45			HILL AVE N - UPPER LAYER
CAT 0080 STAGE 2 TOTAL		1694	319	491	0	0	
STAGE 4							
STA 297+72 - STA 298+80	LT/RT	167	52				JOHN AVE S - LOWER LAYER
STA 297+72 - STA 298+80	LT/RT			35			JOHN AVE S - UPPER LAYER
STA 307+80 - STA 309+05	LT/RT	253	79				HUGHITT AVE S - LOWER LAYER
STA 307+80 - STA 309+05	LT/RT			52			HUGHITT AVE S - UPPER LAYER
STA 337+75 - STA 339+00	LT/RT	289	90				CUMMING AVE S - LOWER LAYER
STA 337+75 - STA 339+00	LT/RT			60			CUMMING AVE S - UPPER LAYER
STA 347+78 - STA 348+95	LT/RT	216	67				BAXTER AVE S - LOWER LAYER
STA 347+78 - STA 348+95	LT/RT			45			BAXTER AVE S - UPPER LAYER
STA 387+25 - STA 389+10	LT/RT	309		64			CLOUGH AVE S - LOWER LAYER
STA 387+25 - STA 389+10	LT/RT			64			CLOUGH AVE S - UPPER LAYER
STA 398+05 - STA 398+20	LT/RT	50	13				FISHER AVE S - LOWER LAYERS
STA 398+05 - STA 398+20	LT/RT			5			FISHER AVE S - UPPER LAYER
CAT 0080 STAGE 4 TOTAL		1284	301	325	0	0	

*QUANTITIES SHOWN ELSEWHERE. (ASPHALTIC SURFACE, ASPHALTIC SURFACE TEMPORARY)

CONT. ASPHALTIC PAVEMENT ITEMS

STATION - STATION	LOCATION	* 455.0605 TACK COAT GAL	460.6443 HMA PAVEMENT 3 MT 58-34 H TON	460.6444 HMA PAVEMENT 4 MT 58-34 H TON	SPV.0195.004 HMA PAVEMENT 3 MT 58-28 H TON	460.7644 HMA PAVEMENT 4 HT 58-34 V TON	REMARKS
STAGE 5							
STA 301+25 - STA 302+17	LT/RT	142	44				JOHN AVE N - LOWER LAYER
STA 301+25 - STA 302+17	LT/RT			30			JOHN AVE N - UPPER LAYER
STA 311+00 - STA 312+20	LT/RT	264	82				HUGHITT AVE N - LOWER LAYER
STA 311+00 - STA 312+20	LT/RT			55			HUGHITT AVE N - UPPER LAYER
STA 340+95 - STA 342+56	LT/RT	402	125				CUMMING AVE N - LOWER LAYER
STA 340+95 - STA 342+56	LT/RT			83			CUMMING AVE N - UPPER LAYER
STA 351+00 - STA 352+29	LT/RT	228	71				BAXTER AVE N - LOWER LAYER
STA 351+00 - STA 352+29	LT/RT			47			BAXTER AVE N - UPPER LAYER
STA 380+85 - STA 382+50	LT/RT	317	98				WEEKS AVE - LOWER LAYER
STA 380+85 - STA 382+50	LT/RT			66			WEEKS AVE - UPPER LAYER
STA 401+00 - STA 402+15	LT/RT	551	143				FISHER AVE N - LOWER LAYERS
STA 401+00 - STA 402+15	LT/RT			57			FISHER AVE N - UPPER LAYER
CAT 0080 STAGE 5 TOTAL		1904	563	338	0	0	
PROJECT 8680-00-71 CAT 0080 TOTAL		5619	1392	1266	0	0	
PROJECT 8680-00-71 TOTAL		10217	2424	1913	108	72	
PROJECT 8998-00-24							
CAT 0010							
STAGE 1							
STA 497+75 - STA 498+80	LT/RT	492	128				HILL AVE S - LOWER LAYERS
STA 497+75 - STA 498+80	LT/RT			51			HILL AVE S - UPPER LAYER
PROJECT 8998-00-24 STAGE 1 TOTAL		492	128	51	0	0	
STAGE 4							
STA 407+83 - STA 408+00	LT/RT	99	26				CATLIN AVE S - LOWER LAYERS
STA 407+83 - STA 408+00	LT/RT			10			CATLIN AVE S - UPPER LAYER
PROJECT 8998-00-24 STAGE 4 TOTAL		99	26	10	0	0	
STAGE 5							
STA 371+10 - STA 372+07	LT/RT	639	166				GRAND AVE N - LOWER LAYERS
STA 371+10 - STA 372+07	LT/RT			66			GRAND AVE N - UPPER LAYER
STA 411+75 - STA 412+50	LT/RT	247	64				CATLIN AVE N - LOWER LAYER
STA 411+75 - STA 412+50	LT/RT			26			CATLIN AVE N - UPPER LAYER
PROJECT 8998-00-24 STAGE 5 TOTAL		886	230	92	0	0	
PROJECT 8998-00-24 TOTAL		1477	384	153	0	0	
COMBINED TOTAL (BOTH PROJECTS)		**11694**	**2808**	**2066**	**108**	**72**	

*QUANTITIES SHOWN ELSEWHERE. (ASPHALTIC SURFACE, ASPHALTIC SURFACE TEMPORARY)

ASPHALTIC SURFACE & BASE AGGREGATE DENSE FOR DRIVEWAYS AND PARKING LOTS

STATION - STATION	LOCATION	BASE AGGREGATE DEPTH (IN)	ASPHALTIC SURFACE DEPTH (IN)	* 305.0120 BASE AGG 1 1/4-INCH TON	465.0105 ASPHALTIC SURFACE TON	* 455.0605 TACK COAT GAL	REMARKS
PROJECT 8680-00-71							
CAT 0010							
STAGE 1							
STA 145+62 - STA 147+18	RT	8	4	52	26	6	
STA 184+80 - STA 184+96	RT	9	3	4	1	0	PARKING ENTRANCE
STA 189+55 - STA 191+47	RT	8	4	209	84	19	HOLIDAY STATION
STA 193+65 - STA 194+63	RT	8	4	143	67	15	ERLANSON STRIP MALL
STA 197+85 - STA 201+15	RT	8	4	443	174	39	BELKNAP PLAZA
STA 208+95 - STA 209+36	RT	8	4	116	46	10	
CAT 0010 STAGE 1 TOTAL				967	398	89	
STAGE 2							
STA 138+57 - STA 138+81	LT	9	3	7	2	0	PARKING ENTRANCE
STA 144+37 - STA 144+81	LT	8	4	18	9	2	
STA 145+66 - STA 147+60	LT	8	4	69	35	8	
STA 187+31 - STA 187+64	LT	9	3	24	5	0	BMO PARKING
STA 189+54 - STA 190+72	LT	8	4	156	72	16	JULIES RESTAURANT
STA 193+20 - STA 193+55	LT	8	4	17	9	2	FREEDOM GAS
STA 199+87 - STA 200+05	LT	9	3	5	2	0	SERVICE ELECTRIC
STA 203+21 - STA 203+56	LT	9	3	11	4	0	METRO CREDIT
STA 205+04 - STA 207+69	LT	8	4	256	87	19	CHINA INN
CAT 0010 STAGE 1 TOTAL				563	225	47	
STAGE 4							
STA 147+88 - STA 148+59	RT	9	3	75	14	0	FIRST MERIT
STA 149+32 - STA 149+95	RT	8	4	49	15	3	HARDEES
STA 308+99 - STA 309+31	LT	8	4	12	3	1	HUGHITT AVE S
STA 309+05 - STA 309+29	RT	8	4	5	3	1	HUGHITT AVE S
STA 153+00 - STA 153+72	RT	8	4	16	8	2	
STA 156+93 - STA 157+51	RT	9	3	111	29	0	CHINESE RESTAURANT
STA 159+58 - STA 159+91	RT	8	4	25	12	3	
STA 161+24 - STA 161+63	RT	9	3	11	4	0	BIG APPLE BAGELS
STA 162+46 - STA 163+14	RT	8	4	26	13	3	DOMINOS
STA 165+12 - STA 165+59	RT	9	3	14	5	0	PEOPLES DRUG STORE
STA 165+94 - STA 167+38	RT	8	4	96	48	11	WI TITLE LOAN
STA 168+14 - STA 169+46	RT	9	3	77	26	0	USA CASH SERVICES
STA 169+79 - STA 170+24	RT	8	4	11	6	1	
STA 176+81 - STA 178+44	RT	9	3	398	98	0	
STA 178+95 - STA 180+17	RT	8	4	278	110	25	
STA 180+75 - STA 180+96	RT	8	4	4	2	0	
STA 408+39 - STA 408+60	LT	9	3	10	3	0	CATLIN AVE S
CAT 0010 STAGE 4 TOTAL				1218	399	50	
STAGE 5							
STA 147+60 - STA 148+51	LT	8	4	47	24	5	
STA 154+44 - STA 154+60	RT	8	4	3	2	0	
STA 154+79 - STA 155+19	LT	9	3	25	4	0	
STA 158+34 - STA 158+50	RT	8	4	5	2	1	
STA 160+66 - STA 161+67	LT	8	4	36	18	4	
STA 163+21 - STA 163+85	LT	8	4	73	29	7	
STA 172+64 - STA 176+82	LT	8	4	564	222	49	
STA 380+87 - STA 380+97	RT	6	3	2	1	0	WEEKS AVE
STA 382+07 - STA 382+31	RT	8	4	6	3	1	WEEKS AVE
STA 400+80 - STA 401+04	RT	9	3	6	2	0	FISHER AVE N
STA 179+47 - STA 181+28	LT	8	4	45	23	5	
STA 410+60 - STA 411+75	LT	8	4	36	18	4	CATLIN AVE N
STA 182+82 - STA 184+54	LT	8	4	121	61	14	
CAT 0010 STAGE 5 TOTAL				969	409	90	
PROJECT 8680-00-71 CAT 0010 TOTAL				3717	1431	276	

*QUANTITY SHOWN ELSEWHERE

ASPHALTIC SURFACE & BASE AGGREGATE DENSE FOR DRIVEWAYS AND PARKING LOTS

STATION - STATION	LOCATION	BASE AGGREGATE DEPTH (IN)	ASPHALTIC SURFACE DEPTH (IN)	* 305.0120 BASE AGG 1 1/4-INCH TON	465.0105 ASPHALTIC SURFACE TON	* 455.0605 TACK COAT GAL	REMARKS
PROJECT 8680-00-71							
CAT 0080							
STAGE 1							
STA 3+99 - 4+23	LT	9	3	23	2	0	BANKS AVE
STA 143+43 - STA 144+93	RT	9	3	147	26	0	
STA 466+92 - STA 467+27	LT	8	4	8	4	1	ELM AVE S
STA 467+22 - STA 467+44	RT	9	3	9	3	0	ELM AVE S
STA 467+51 - STA 467+67	RT	8	4	4	2	0	ELM AVE S
CAT 0080 STAGE 1 TOTAL				191	37	1	
STAGE 2							
STA 421+57 - STA 421+69	LT	9	3	4	1	0	BIRCH AVE N
STA 421+77 - STA 421+94	LT	9	3	6	2	0	BIRCH AVE N
STA 421+32 - STA 421+56	RT	9	3	6	2	0	BIRCH AVE N
STA 421+78 - STA 421+92	RT	9	3	4	1	0	BIRCH AVE N
STA 431+76 - STA 431+94	RT	8	4	12	6	1	CYPRESS AVE N
STA 431+76 - STA 431+94	LT	8	4	8	3	1	CYPRESS AVE N
STA 451+75 - STA 451+92	LT	8	4	10	5	1	POPLAR AVE N
STA 450+93 - STA 451+23	RT	6	3	6	3	0	POPLAR AVE N
STA 451+60 - STA 451+75	RT	6	3	2	1	0	POPLAR AVE N
STA 471+52 - STA 471+72	LT	9	3	4	1	0	ELM AVE N
STA 471+78 - STA 471+94	LT	8	4	3	2	0	ELM AVE N
STA 471+28 - STA 471+50	RT	9	3	6	2	0	ELM AVE N
STA 471+79 - STA 471+95	RT	8	4	4	2	0	ELM AVE N
STA 481+00 - STA 481+67	RT	8	4	19	10	2	CEDAR AVE N
STA 481+78 - STA 481+96	RT	8	4	4	2	0	CEDAR AVE N
CAT 0080 STAGE 2 TOTAL				98	43	5	
STAGE 4							
STA 298+06 - STA 298+80	LT	9	3	54	14	0	JOHN AVE S
STA 298+07 - STA 298+46	RT	8	4	58	28	6	JOHN AVE S
STA 308+00 - STA 308+40	LT	8	4	18	8	2	HUGHITT AVE S
STA 308+02 - STA 308+18	RT	8	4	4	2	0	HUGHITT AVE S
STA 308+52 - STA 308+64	RT	8	4	3	1	0	HUGHITT AVE S
STA 338+11 - STA 339+00	LT	8	4	11	6	1	CUMMING AVE S
STA 338+10 - STA 338+26	RT	8	4	3	2	0	CUMMING AVE S
STA 348+10 - STA 348+25	LT	8	4	4	2	0	BAXTER AVE S
STA 348+09 - STA 348+25	RT	8	4	3	2	0	BAXTER AVE S
STA 387+57 - STA 388+15	RT	9	3	60	20	0	CLOUGH AVE
CAT 0080 STAGE 4 TOTAL				218	85	9	
STAGE 5							
STA 301+25 - STA 301+95	LT	8	4	27	13	3	JOHN AVE N
STA 301+77 - STA 301+93	RT	8	4	3	2	0	JOHN AVE N
STA 311+73 - STA 311+93	LT	8	4	4	2	0	HUGHITT AVE N
STA 340+95 - STA 341+93	RT	8	4	37	19	4	CUMMING AVE N
STA 350+69 - STA 351+75	LT	8	4	167	78	17	CATHEDRAL SCHOOL
STA 351+00 - STA 351+95	LT	8	4	183	78	17	CATHEDRAL SCHOOL ALLEY& LOT
STA 401+75 - STA 401+94	RT	8	4	4	2	0	FISHER AVE N
CAT 0080 STAGE 5 TOTAL				425	194	41	
ROJECT 8680-00-71 CAT 0080 TOTAL				932	359	56	
PROJECT 8680-00-71 TOTAL				4649	1790	332	
PROJECT 8998-00-24							
CAT 0010							
STAGE 4							
STA 328+01 - STA 328+17	LT	8	4	6	3	1	HAMMOND AVE S
STA 328+07 - STA 328+23	RT	8	4	6	3	1	HAMMOND AVE S
STA 156+93 - STA 157+51	RT	9	3	99	31	0	CHINESE RESTAURANT
STA 358+11 - STA 358+85	LT	8	4	37	19	4	LAMBORN AVE
8998-00-24 STAGE 4 TOTAL				148	56	6	
STAGE 5							
STA 411+75 - STA 411+90	LT	8	4	8	4	1	CATLIN AVE N
STA 411+75 - STA 411+90	RT	8	4	11	5	1	CATLIN AVE N
8998-00-24 STAGE 5 TOTAL				19	9	2	
PROJECT 8998-00-24 TOTAL				167	65	8	
COMBINED TOTAL (BOTH PROJECTS)				**4816**	**1855**	**340**	

*QUANTITY SHOWN ELSEWHERE

ASPHALTIC SURFACE TEMPORARY

STATION - STATION	LOCATION	DEPTH (IN)	* 455.0605 TACK COAT GAL	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1					
STA 147+60 - STA 147+90	RT	6	103	32	EB MAINLINE TEMP TIE IN TO EXISTING
STA 184+10 - STA 184+60	RT	6	177	55	EB MAINLINE TEMP TIE IN TO EXISTING
CAT 0010 STAGE 1 TOTAL			280	87	
STAGE 2					
STA 147+60 - STA 147+90	LT	6	103	32	WB MAINLINE TEMP TIE IN TO EXISTING
STA 184+10 - STA 184+60	LT	6	177	55	WB MAINLINE TEMP TIE IN TO EXISTING
CAT 0010 STAGE 2 TOTAL			280	87	
STAGE 3					
STA 147+60 - STA 147+90	LT/RT	6	43	13	MEDIAN TEMP TIE IN TO EXISTING
STA 184+10 - STA 184+60	LT/RT	6	72	22	MEDIAN TEMP TIE IN TO EXISTING
CAT 0010 STAGE 3 TOTAL			115	35	
UNDISTRIBUTED				291	
PROJECT 8680-00-71 CAT 0010 TOTAL			675	500	

*QUANTITY SHOWN ELSEWHERE

3

CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
PROJECT 8680-00-71														
CAT 0010														
STAGE 1														
USH 2 - MAINLINE														
STA 137+80 - STA 141+04	RT				361							361	361	BANKS AVE - TOWER AVE
STA 141+73 - STA 145+01	RT				367							367	367	TOWER AVE - OGDEN AVE
STA 145+44 - STA 147+60	RT				230							230	230	OGDEN AVE - END STAGE 1
STA 184+60 - STA 189+15	RT				427							427	427	BEGIN STAGE 1 - MORTORELLI DR
STA 189+15 - STA 195+99	RT				541							541	541	MORTORELLI DR - RR TRACKS
STA 195+99 - STA 196+17	RT					18						18	18	RR TRACKS, HMA
STA 196+41 - STA 196+60	RT					18						18	18	RR TRACKS, HMA
STA 196+60 - STA 201+44	RT				438							438	438	RR TRACKS - ELM AVE S
STA 201+44 - STA 208+33	RT				713							713	713	ELM AVE S - HILL AVE S
STA 208+33 - STA 210+18	RT				204							204	204	HILL AVE S - PROJECT END
SIDE ROADS														
STA 3+77 - STA 4+57	LT/RT				115							115	115	BANKS AVE S (WEST RADIUS)
STA 438+64 - STA 439+36	LT/RT			142								142	142	MORTORELLI DR S
STA 469+00 - STA 469+41	LT/RT			204								204	204	ELM AVE S / A HAYES CT
PARKING LOTS														
STA 143+46 - STA 144+63	RT			117								117	117	PUBLIC LIBRARY PARKING LOT
STA 189+55 - STA 191+56	RT			234								234	234	HOLIDAY STATION PARKING LOT
STA 193+65 - STA 194+26	RT	120										120	120	STRIP MALL ENTRANCE
STA 197+85 - STA 201+14	RT			445								445	445	MALL ENTRANCE AND PARKING LOT
STA 208+97 - STA 209+26	RT			53								53	53	1ST AVE EAST ALLEY ENTRANCE
DRIVEWAYS														
STA 184+76 - STA 185+01	RT									25		25	25	
STA 190+76 - STA 191+20	RT									44		44	44	
STA 193+79 - STA 194+73	RT									94		94	94	
STA 198+88 - STA 199+32	RT									44		44	44	
STA 208+97 - STA 209+26	RT									29		29	29	
CAT 0010 STAGE 1 TOTAL		120	0	1195	3396	36	0	0	0	236	0	4983	4983	

CONT. CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
STAGE 2														
USH 2 - MAINLINE														
STA 137+74 - STA 141+02	LT				311							311	311	BANKS AVE N - TOWER AVE N
STA 141+69 - STA 142+36	LT				93							93	93	TOWER AVE N (EAST RAD)
STA 144+40 - STA 145+00	LT				75							75	75	OGDEN AVE N (WEST RAD)
STA 145+44 - STA 147+60	LT				236							236	236	OGDEN AVE N - END STAGE 2
STA 184+60 - STA 185+79	LT				120							120	120	BEGIN STAGE 2 - BIRCH AVE
STA 185+79 - STA 188+74	LT				259							259	259	BIRCH AVE - CYPRESS AVE
STA 188+74 - STA 191+70	LT				245							245	245	CYPRESS AVE - POPLAR AVE
STA 191+70 - STA 196+24	LT				381							381	381	POPLAR AVE - RR TRACKS
STA 195+99 - STA 196+17	LT					18						18	18	RR TRACKS HMA
STA 196+41 - STA 196+60	LT					18						18	18	RR TRACKS HMA
STA 196+60 - STA 198+21	LT				169							169	169	RR TRACKS - PINE AVE
STA 198+21 - STA 201+46	LT				299							299	299	PINE AVE - ELM AVE N
STA 201+46 - STA 204+75	LT				302							302	302	ELM AVE N - CEDAR AVE
STA 204+75 - STA 208+33	LT				336							336	336	CEDAR AVE - HILL AVE N
STA 208+33 - STA 210+18	LT				167							167	167	HILL AVE N - PROJECT END
SIDE ROADS														
STA 5+49 - STA 6+16	LT				99							99	99	BANKS AVE N (WEST RADIUS)
STA 5+38 - STA 5+89	LT				142							142	142	BANKS AVE N PORKCHOP ISLAND
STA 420+60 - STA 420+90	LT/RT			60								60	60	BIRCH AVE
STA 430+49 - STA 430+60	LT/RT			51								51	51	CYPRESS AVE
STA 450+60 - STA 451+25	LT/RT			90								90	90	POPLAR AVE
STA 460+60 - STA 461+05	LT/RT			107								107	107	PINE AVE
STA 470+70 - STA 471+00	LT/RT			60								60	60	ELM AVE N
STA 480+60 - STA 481+00	LT/RT			54								54	54	CEDAR AVE N
STA 500+65 - STA 500+78	LT/RT			29								29	29	HILL AVE N
PARKING LOTS														
STA 136+00 - STA 136+06	LT							6				6	6	KWIK TRIP PARKING LOT
STA 187+28 - STA 187+64	LT			28								28	28	VIANT CRANE ENTRANCE
STA 189+54 - STA 190+72	LT			136								136	136	JULIE'S RESTAUARANT PARKING LOT
STA 203+45 - STA 203+56	LT			11								11	11	METRO CREDIT UNION ENTRANCE
STA 205+04 - STA 207+69	LT			356								356	356	CHINA INN PARKING LOT
DRIVEWAYS														
STA 138+52 - STA 138+86	LT									34		34	34	
STA 139+62 - STA 140+01	LT									39		39	39	
STA 187+18 - STA 187+52	LT									34		34	34	
STA 190+26 - STA 190+59	LT									33		33	33	
STA 193+16 - STA 193+60	LT									44		44	44	
STA 199+82 - STA 200+10	LT									28		28	28	
STA 203+16 - STA 203+50	LT									34		34	34	
STA 206+35 - STA 206+65	LT									30		30	30	
STA 450+73 - STA 451+13	RT										40	40	40	POPLAR AVE N
STA 480+60 - STA 480+97	RT										37	37	37	CEDAR AVE N
CAT 0010 STAGE 2 TOTAL		0	0	982	3234	36	0	6	0	276	77	4611	4611	
STAGE 3														
USH 2 - MEDIAN														
STA 186+07 - STA 187+47	CL				271							271	271	MEDIAN ISLAND
STA 195+17 - STA 196+18	CL						164	44				208	208	MEDIAN ISLAND - RR TRACKS
STA 196+40 - STA 197+41	CL						164	44				208	208	MEDIAN ISLAND - RR TRACKS
STA 198+54 - STA 198+74	CL				28							28	28	MEDIAN ISLAND
STA 205+21 - STA 206+87	CL				322							322	322	
CAT 0010 STAGE 3 TOTAL		0	0	0	621	0	328	88	0	0	0	1037	1037	

CONT. CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
STAGE 4														
USH 2 - MAINLINE														
STA 147+60 - STA 148+92	RT				113							113	113	
STA 148+92 - STA 152+62	RT				358							358	358	
STA 152+62 - STA 156+47	RT				321							321	321	
STA 156+47 - STA 160+32	RT				350							350	350	
STA 160+32 - STA 164+02	RT				295							295	295	
STA 164+02 - STA 167+73	RT				342							342	342	
STA 167+73 - STA 174+10	RT				522							522	522	
STA 174+10 - STA 178+70	RT				460							460	460	
STA 178+70 - STA 182+53	RT				350							350	350	
STA 182+53 - STA 184+60	RT				201							201	201	
SIDE ROADS														
STA 298+80 - STA 299+31	LT/RT			102								102	102	JOHN AVE S
STA 309+05 - STA 309+46	LT/RT			83								83	83	HUGHITT AVE S
STA 329+15 - STA 329+41	LT/RT		53									53	53	HAMMOND AVE S
STA 339+00 - STA 339+46	LT/RT			130								130	130	CUMMING AVE S
STA 348+95 - STA 349+46	LT/RT			104								104	104	BAXTER AVE S
STA 358+85 - STA 359+35	LT/RT		36									36	36	LAMBORN AVE S
STA 389+10 - STA 389+40	LT/RT			62								62	62	CLOUGH AVE S
STA 398+20 - STA 399+41	LT/RT			231								231	231	FISHER AVE S
STA 408+00 - STA 409+40	LT/RT			220								220	220	CATILIN AVE S
PARKING LOTS														
STA 147+97 - STA 148+56	RT			134								134	134	CITIZENS BANK PARKING LOT
STA 149+32 - STA 149+95	RT			86								86	86	HARDEE'S ENTRANCE
STA 152+24 - STA 152+27	RT			32								32	32	HARDEE'S ENTRANCE
STA 156+93 - STA 157+51	RT			115								115	115	CHINESE RESTAURANT PARKING LOT
STA 176+81 - STA 178+44	RT			316								316	316	PILGRIM LUTHERAN CHURCH LOT
STA 178+95 - STA 180+17	RT			275								275	275	BURGER KING PARKING LOT
DRIVEWAYS														
STA 147+97 - STA 148+26	RT									29		29	29	
STA 149+63 - STA 149+90	RT									27		27	27	
STA 154+32 - STA 154+56	RT									24		24	24	
STA 154+96 - STA 155+20	RT									24		24	24	
STA 158+22 - STA 158+46	RT									24		24	24	
STA 161+30 - STA 161+62	RT									32		32	32	
STA 162+61 - STA 162+94	RT									33		33	33	
STA 165+20 - STA 165+52	RT									32		32	32	
STA 169+74 - STA 170+29	RT									55		55	55	
STA 172+40 - STA 172+95	RT									55		55	55	
STA 180+73 - STA 180+98	RT									25		25	25	
STA 309+00 - STA 309+33	RT										33	33	33	HUGHITT AVE S
STA 358+72 - STA 359+04	LT									32		32	32	LAMBORN AVE
STA 358+91 - STA 359+24	RT									33		33	33	LAMBORN AVE
STA 408+29 - STA 408+62	LT										33	33	33	CATLIN AVE S
STA 408+02 - STA 408+31	RT										29	29	29	CATLIN AVE S
CAT 0010 STAGE 4 TOTAL		0	89	1890	3312	0	0	0	0	425	95	5811	5811	

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CONT. CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
STAGE 5														
USH 2 - MAINLINE														
STA 147+60 - STA 148+92	LT				137							137	137	
STA 148+92 - STA 152+62	LT				243							243	243	
STA 152+62 - STA 156+47	LT				371							371	371	
STA 156+47 - STA 160+32	LT				376							376	376	
STA 160+32 - STA 164+02	LT				322							322	322	
STA 164+02 - STA 167+73	LT				357							357	357	
STA 167+73 - STA 171+43	LT				361							361	361	
STA 171+43 - STA 178+83	LT				672							672	672	
STA 178+83 - STA 182+53	LT				320							320	320	
STA 182+53 - STA 184+60	LT				161							161	161	
SIDE ROADS														
STA 300+64 - STA 301+25	LT/RT			101								101	101	JOHN AVE N
STA 310+54 - STA 311+00	LT/RT			100								100	100	HUGHITT AVE N
STA 330+59 - STA 331+00	LT/RT		84									84	84	HAMMOND AVE N
STA 340+55 - STA 340+95	LT/RT			79								79	79	CUMMING AVE N
STA 350+54 - STA 351+00	RT			78								78	78	BAXTER AVE N
STA 370+60 - STA 371+10	LT/RT			72								72	72	GRAND AVE N
STA 380+60 - STA 380+85	LT/RT			33								33	33	WEEKS AVE N
STA 400+60 - STA 401+00	LT/RT			33								33	33	FISHER AVE N
STA 410+60 - STA 411+75	LT/RT			191								191	191	CATLIN AVE N
PARKING LOTS														
STA 149+27 - STA 149+77	LT			56								56	56	LAW FIRM PARKING LOT
STA 154+79 - STA 155+18	LT			45								45	45	ARTS CENTER PARKING LOT
STA 163+21 - STA 163+91	LT			177								177	177	SCHOOL/CHURCH PARKING LOT
STA 172+64 - STA 176+82	LT			569								569	569	BUSINESS PARKING PARKING LOT
DRIVEWAYS														
STA 149+28 - STA 150+01	LT									73		73	73	
STA 149+74 - STA 150+04	LT									30		30	30	
STA 150+98 - STA 151+31	LT									33		33	33	
STA 161+01 - STA 161+42	LT									41		41	41	
STA 172+60 - STA 172+89	LT									29		29	29	
STA 176+18 - STA 176+52	LT									34		34	34	
STA 180+93 - STA 181+32	LT									39		39	39	
STA 184+19 - STA 184+58	LT									39		39	39	
STA 300+55 - STA 300+76	RT										21	21	21	JOHN AVE S
STA 340+64 - STA 340+85	RT										21	21	21	CUMMING AVE N
STA 370+83 - STA 371+12	LT										29	29	29	GRAND AVE
STA 380+78 - STA 380+96	RT										18	18	18	WEEKS AVE N
STA 400+76 - STA 401+08	RT										32	32	32	FISHER AVE N
STA 410+90 - STA 411+30	RT										40	40	40	CATLIN AVE N
CAT 0010 STAGE 5 TOTAL		0	84	1534	3320	0	0	0	0	318	161	5417	5417	
STAGE 6														
USH 2 - MEDIAN														
STA 146+97 - STA 148+74	LT/RT				341							341	341	MEDIAN ISLAND
STA 150+49 -STA 151+04	LT/RT				110							110	110	MEDIAN ISLAND
STA 164+22 - STA 165+04	LT/RT				157							157	157	MEDIAN ISLAND
STA 169+76 - STA 170+32	LT/RT				112							112	112	MEDIAN ISLAND
STA 171+81 - STA 172+31	LT/RT				100							100	100	MEDIAN ISLAND
STA 173+08 - STA 173+70	LT/RT				116							116	116	MEDIAN ISLAND
STA 176+45 - STA 177+21	LT/RT				144							144	144	MEDIAN ISLAND
CAT 0010 STAGE 6 TOTAL		0	0	0	1080	0	0	0	0	0	0	1080	1080	
PROJECT 8680-00-71 CAT 0010 TOTAL		120	173	5601	14963	72	328	94	0	1255	333	22939	22939	

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\030201_MQ.DWG
LAYOUT NAME - 030201_MQ - 030219_MQ
PLOT DATE : 10/24/2016 2:56 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

CONT. CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
PROJECT 8680-00-71														
CAT 0080														
STAGE 1														
STA 684+10 - STA 686+49	LT/RT								483			483	483	TOWER AVE S - MEDIAN
STA 437+75 - STA 438+64	LT/RT			180								180	180	MORTORELLI DR
STA 466+86 - STA 469+00	LT/RT			299								299	299	ELM AVE S
STA 204+52 - STA 205+37	RT			85								85	85	ACROSS EXISTING CEDAR AVE
PARKING LOTS														
STA 3+99 - STA 4+20	LT			64								64	64	BANKS AVE - SUPERONE PARKING LOT
STA 98+32 - STA 99+40	LT			163								163	163	OGDEN AVE - LIBRARY PARKING LOT
DRIVEWAYS														
STA 98+35 - STA 99+68	LT										33	33	33	ODGEN AVE S
STA 466+88 - STA 467+32	LT										44	44	44	ELM AVE S
STA 467+18 -STA 467+47	RT										29	29	29	ELM AVE S
STA 467+48 - STA 467+72	RT										24	24	24	ELM AVE S
CAT 0080 STAGE 1 TOTAL		0	0	791	0	0	0	0	483	0	130	1404	1404	
STAGE 2														
STA 420+90 - STA 422+15	LT/RT			147								147	147	BIRCH AVE
STA 430+60 - STA 432+60	LT/RT			375								375	375	CYPRESS AVE
STA 451+25 - STA 452+25	LT/RT			150								150	150	POPLAR AVE
STA 461+05 - STA 461+75	LT/RT			163								163	163	PINE AVE N
STA 471+00 - STA 472+15	LT/RT			126								126	126	ELM AVE N
STA 481+00 - STA 482+15	LT/RT			206								206	206	CEDAR AVE N
STA 500+79 - STA 501+89	LT/RT			199								199	199	HILL AVE N
PARKING LOTS														
STA 480+95 - STA 481+67	RT			80								80	80	CEDAR AVE - CHINA INN PARKING LOT
DRIVEWAYS														
STA 421+16 - STA 421+48	RT										32	32	32	BIRCH AVE N
STA 421+52 - STA 421+72	LT										20	20	20	BIRCH AVE N
STA 421+73 - STA 421+99	LT										26	26	26	BIRCH AVE N
STA 421+73 - STA 421+98	RT										25	25	25	BIRCH AVE N
STA 431+72 - STA 431+98	RT										26	26	26	CYPRESS AVE N
STA 431+74 - STA 432+00	LT										26	26	26	CYPRESS AVE N
STA 451+48 - STA 451+72	RT										24	24	24	POPLAR AVE N
STA 451+70 - STA 451+97	LT										27	27	27	POPLAR AVE N
STA 471+24 - STA 471+54	RT										30	30	30	ELM AVE N
STA 471+48 - STA 471+74	LT										26	26	26	ELM AVE N
STA 471+75 - STA 471+98	LT										23	23	23	ELM AVE N
STA 471+74 - STA 471+99	RT										25	25	25	ELM AVE N
STA 481+73 - STA 482+00	RT										27	27	27	CEDAR AVE N
CAT 0080 STAGE 2 TOTAL		0	0	1446	0	0	0	0	0	0	337	1783	1783	

CONT. CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
STAGE 4														
STA 297+72 - STA 298+80	LT/RT			140								140	140	JOHN AVE S
STA 307+80 - STA 309+05	LT/RT			235								235	235	HUGHITT AVE S
STA 337+75 - STA 339+00	LT/RT			364								364	364	CUMMING AVE S
STA 347+78 - STA 348+95	LT/RT			188								188	188	BAXTER AVE S
STA 387+25 - STA 389+10	LT/RT			298								298	298	CLOUGH AVE S
PARKING LOTS														
STA 298+30 - STA 298+80	LT			50								50	50	JOHN AVE - CITIZENS BANK PARKING LOT
STA 298+07 - STA 298+46	RT			19								19	19	JOHN AVE - HARDEES PARKING LOT
STA 308+00 - STA 308+40	LT			19								19	19	HUGHITT AVE - HARDEES ENTRANCE
DRIVEWAYS														
STA 298+01 - STA 298+34	LT										33	33	33	JOHN AVE S
STA 298+03 - STA 298+46	RT										43	43	43	JOHN AVE S
STA 307+96 - STA 308+40	LT										44	44	44	HUGHITT AVE S
STA 307+98 - STA 308+23	RT										25	25	25	HUGHITT AVE S
STA 308+48 - STA 308+69	RT										21	21	21	HUGHITT AVE S
STA 338+05 - STA 338+31	RT										26	26	26	CUMMING AVE S
STA 338+11 - STA 338+27	LT										26	26	26	CUMMING AVE S
STA 348+06 - STA 348+30	LT										24	24	24	BAXTER AVE S
STA 348+06 - STA 348+30	RT										24	24	24	BAXTER AVE S
STA 387+58 - STA 387+83	RT										25	25	25	CLOUGH AVE S
STA 387+94 - STA 388+20	RT										26	26	26	CLOUGH AVE S
STA 387+98 - STA 388+23	LT										25	25	25	CLOUGH AVE S
CAT 0080 STAGE 4 TOTAL		0	0	1313	0	0	0	0	0	0	342	1655	1655	
STAGE 5														
STA 301+25 - STA 302+17	LT/RT			118								118	118	JOHN AVE N
STA 311+00 - STA 312+20	LT/RT			200								200	200	HUGHITT AVE N
STA 340+95 - STA 342+56	LT/RT			296								296	296	CUMMING AVE N
STA 351+00 - STA 352+29	LT/RT			395								395	395	BAXTER AVE N
STA 380+85 - STA 382+50	LT/RT			297								297	297	WEEKS AVE
STA 401+00 - STA 402+15	LT/RT			213								213	213	FISHER AVE N
PARKING LOTS														
STA 351+00 - STA 351+75				218								218	218	BAXTER AVE - CHURCH/SCHOOL
DRIVEWAYS														
STA 301+60 - STA 301+99	LT										39	39	39	JOHN AVE N
STA 301+73 - STA 301+98	RT										25	25	25	JOHN AVE N
STA 311+72 - STA 311+98	LT										26	26	26	HUGHITT AVE N
STA 311+74 - STA 312+11	RT										37	37	37	HUGHITT AVE N
STA 341+71 - STA 341+98	RT										27	27	27	CUMMING AVE N
STA 381+90 - STA 382+23	RT										33	33	33	WEEKS AVE N
STA 401+71 - STA 401+96	RT										25	25	25	FISHER AVE N
CAT 0080 STAGE 5 TOTAL		0	0	1737	0	0	0	0	0	0	212	1949	1949	
PROJECT 8680-00-71 CAT 0080 TOTAL		0	0	5287	0	0	0	0	483	0	1021	6791	6791	
PROJECT 8680-00-71 TOTAL		120	173	10888	14963	72	328	94	483	1255	1354	29730	29730	

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CONT. CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.023 30-INCH TYPE A SPECIAL LF	SPV.0090.025 30-INCH TYPE D SPECIAL LF	SPV.0090.026 18-INCH TYPE A SPECIAL LF	SPV.0090.024 18-INCH TYPE D SPECIAL LF	SPV.0090.022 18-INCH 6-IN SLOPED TYPE G SPECIAL LF	SPV.0090.027 30-INCH TYPE A HES SPECIAL LF	SPV.0090.028 30-INCH TYPE D HES LF	SPV.0090.020 CURE & SEAL LF	650.5500 STAKING CURB & GUTTER LF	REMARKS
PROJECT 8998-00-24														
CAT 0010														
STAGE 1														
STA 497+75 - STA 498+80	LT/RT		47	212								259	259	HILL ST S
PROJECT 8998-00-24 STAGE 1 TOTAL		0	47	212	0	0	0	0	0	0	0	259	259	
STAGE 4														
STA 327+80 - STA 329+15	LT/RT		220									220	220	HAMMOND S
STA 100+39 - STA 101+67	LT/RT		205									205	205	GRAND AVE SOUTH
STA 357+79 - STA 358+85	LT/RT		165									165	165	LAMBORN S
STA 407+83 - STA 408+00	LT/RT			41								41	41	CATLIN AVE S
PARKING LOTS														
STA 328+85 - STA 329+15	RT			31								31	31	HAMMOND AVE - CHINESE RESTAURANT LOT
DRIVEWAYS														
STA 327+96 - STA 328+21	LT									25		25	25	HAMMOND AVE
STA 328+03 - STA 328+28	RT									25		25	25	HAMMOND AVE
STA 101+10 - STA 101+64	LT									54		54	54	SOUTH GRAND AVE
STA 358+07 - STA 358+32	LT									25		25	25	LAMBORN AVE
PROJECT 8998-00-24 STAGE 4 TOTAL		0	590	72	0	0	0	0	0	129	0	791	791	
STAGE 5														
STA 371+10 - STA 372+07	LT/RT			194								194	194	GRAND AVE N
DRIVEWAYS														
STA 411+75 - STA 412+50	LT/RT										54	54	54	CATLIN AVE N
PROJECT 8998-00-24 STAGE 5 TOTAL		0	0	194	0	0	0	0	0	0	54	248	248	
PROJECT 8998-00-24 TOTAL		0	637	478	0	0	0	0	0	129	54	1298	1298	
COMBINED TOTAL (BOTH PROJECTS)		**120**	**810**	**11366**	**14963**	**72**	**328**	**94**	**483**	**1384**	**1408**	**31028**	**31028**	

CONCRETE STEPS

STATION	LOCATION	602.1500 SF	REMARKS
PROJECT 8680-00-71			
CATEGORY 0080			
HUGHITT			
311+46	RT	14	
PROJECT 8680-00-71 ITEM TOTA		14	

CONCRETE CURB PEDESTRIAN

STATION - STATION	LOCATION	601.0600 LF	SPV 0090.041 CONCRETE WALL LF	REMARKS
PROJECT 8680-00-71				
CAT 0010				
STAGE 1				
STA 142+80 - STA 143+03	RT	25		MAINLINE - BEHIND S/W
STA 468+30 - STA 469+46	LT	116		ELM - SOUTH / WEST SIDE
CAT 0010 STAGE 1 TOTAL		141		
STAGE 2				
STA 145+90 - STA 146+60	LT	76		MAINLINE - BEHIND S/W
STA 430+57.5 - STA 431+ 13.5	RT	56		CYPRESS
STA 450+69 - STA 451+25	LT	56		POPLAR AVE N
STA 450+50 - STA 450+69	LT		73	POPLAR AVE N
CAT 0010 STAGE 2 TOTAL		188	73	
STAGE 4				
STA 299+21 - STA 299+49	RT	39		JOHN AVE S
STA 309+22 - STA 309+50	LT	35		HUGHITT AVE S
STA 309+29 - STA 309+50	RT	30		HUGHITT AVE S
STA 328+81 - STA 329+31	RT	50		HAMMOND AVE S
STA 329+17 - STA 329+51	LT	41		HAMMOND AVE S
STA 338+27 - STA 339+24.5	LT	98		CUMMING AVE S
CAT 0010 STAGE 4 TOTAL		293	0	
STAGE 5				
STA 155+19 - STA 155+31	LT		28	ML WEST OF HAMMOND AVE N
STA 155+44 - STA 155+79	LT		38	ML WEST OF HAMMOND AVE N
STA 155+92 - STA 156+04	LT		24	ML WEST OF HAMMOND AVE N
STA 160+68 - STA 161+05	LT	56		USH 2/CUMMING AVE NE QUAD
STA 173+06 - STA 173+51	LT	68		MAINLINE
STA 179+18 - STA 179+68	LT	64		USH 2/FISHER AVE NE QUAD
STA 181+28 - STA 181+60	LT	32		MAINLINE
STA 181+68 - STA 182+23	LT	71		MAINLINE
STA 182+82 - STA 184+23	LT	170		MAINLINE
STA 330+50 - STA 330+61	RT	19		HAMMOND AVE N
STA 350+49 - STA 350+83	RT	42		BAXTER AVE N
CAT 0010 STAGE 5 TOTAL		522	90	
PROJECT 8680-00-71 CAT 0010 TOTAL		1144	163	
PROJECT 8998-00-24				
CAT 0010				
STAGE 4				
STA 100+43 - STA 100+83	LT	80		GRAND AVE S
PROJECT 8998-00-24 STAGE 4 TOTAL		80	0	
PROJECT 8998-00-24 TOTAL		80	0	
COMBINED TOTAL (BOTH PROJECTS)		**1224**	**163**	

CONCRETE SIDEWALK

STATION - STATION	LOCATION	602.0415 6-INCH SF	SPV.0165.003 CURE AND SEAL SF	REMARKS
PROJECT 8680-00-71				
CAT 0010				
STAGE 1				
USH 2 - MAINLINE				
STA 136+00 - STA 137+52	RT	735	0	
STA 137+52 - STA 141+37	RT	5196	2869	
STA 141+37 - STA 145+22	RT	4814	2494	
STA 145+22 - STA 147+60	RT	2562	1479	
STA 184+99 - STA 189+16	RT	4149	3041	
STA 189+16 - STA 196+16	RT	8602	7494	
STA 196+42 - STA 201+46	RT	4236	3756	
STA 201+46 - STA 208+34	RT	7237	5707	
STA 208+34 - STA 210+18	RT	2124	1072	
SIDE ROADS				
STA 438+64 - STA 439+36	LT	506	506	MORTORELLI AVE
STA 468+98 - STA 469+41	LT	203	203	ELM AVE
STA 468+98 - STA 469+12	RT	375	375	ELM AVE/HAYES CT
CAT 0010 STAGE 1 TOTAL		40739	28996	
STAGE 2				
USH 2 - MAINLINE				
STA 136+00 - STA 137+52	LT	1112	0	
STA 137+52 - STA 141+37	LT	4055	2105	
STA 141+37 - STA 145+22	LT	3655	1335	
STA 145+22 - STA 147+60	LT	2379	1296	
STA 184+60 - STA 185+79	LT	1209	162	
STA 185+79 - STA 188+74	LT	2730	1043	
STA 188+74 - STA 191+70	LT	3516	2115	
STA 191+70 - STA 196+16	LT	3421	2662	
STA 196+42 - STA 198+21	LT	1764	903	
STA 198+21 - STA 201+46	LT	3141	1800	
STA 201+46 - STA 204+75	LT	3208	1629	
STA 204+75 - STA 208+33	LT	4652	2500	
STA 208+33 - STA 210+18	LT	1456	405	
SIDE ROADS				
STA 420+60 - STA 420+90	LT	355	355	BIRCH AVE
STA 420+60 - STA 420+90	RT	404	404	BIRCH AVE
STA 450+60 - STA 451+25	LT	408	408	POPLAR AVE
STA 460+60 - STA 461+05	LT	463	463	PINE AVE
STA 460+60 - STA 461+06	RT	329	329	PINE AVE
STA 471+70 - STA 471+00	LT	150	150	ELM AVE
STA 470+70 - STA 471+00	RT	152	152	ELM AVE
STA 480+84 - STA 481+00	LT	91	91	CEDAR AVE
CAT 0010 STAGE 2 TOTAL		38650	20307	
STAGE 3				
USH 2 - MEDIAN				
STA 148+64 - STA 148+74	CL	66	66	
STA 186+07 - STA 186+10	CL	19	19	
STA 186+22 - STA 187+47	CL	835	835	
STA 195+17 - STA 196+16	CL	410	410	
STA 196+42 - STA 197+41	CL	654	654	
STA 198+54 - STA 198+58	CL	24	24	
STA 198+70 - STA 198+74	CL	24	24	
STA 205+21 - STA 205+24	CL	24	24	
STA 205+36 - STA 206+87	CL	1011	1011	
CAT 0010 STAGE 3 TOTAL		3067	3067	
STAGE 4				
USH 2 - MAINLINE				
STA 147+60 - STA 148+92	RT	1554	362	
STA 148+92 - STA 152+62	RT	4180	1572	
STA 152+62 - STA 156+47	RT	3483	954	
STA 156+47 - STA 160+32	RT	3802	1635	
STA 160+32 - STA 164+02	RT	3386	1062	
STA 164+02 - STA 167+73	RT	3879	1216	
STA 167+73 - STA 174+10	RT	6875	4252	
STA 174+10 - STA 178+70	RT	4665	3435	
STA 178+70 - STA 182+53	RT	3381	2375	
STA 182+79 - STA 184+78	RT	2315	1309	
CAT 0010 STAGE 4 SUBTOTAL		37520	18172	

CONCRETE SIDEWALK (CONT)

STATION - STATION	LOCATION	602.0415 6-INCH SF	SPV.0165.003 CURE AND SEAL SF	REMARKS
SIDE ROADS				
STA 299+31 - STA 298+80	LT	446	446	JOHN AVE
STA 298+80 - STA 299+31	RT	430	430	JOHN AVE
STA 309+05 - STA 309+46	LT	480	480	HUGHITT AVE
STA 309+05 - STA 309+46	RT	290	290	HUGHITT AVE
STA 329+15 - STA 329+41	LT	415	415	HAMMOND AVE
STA 329+15 - STA 329+41	RT	287	287	HAMMOND AVE
STA 339+00 - STA 339+46	LT	632	632	CUMMING AVE
STA 339+00 - STA 339+46	RT	396	396	CUMMING AVE
STA 348+95 - STA 349+46	LT	567	567	BAXTER AVE S
STA 348+95 - STA 349+46	RT	591	591	BAXTER AVE S
STA 389+10 - STA 389+40	LT	411	411	CLOUGH AVE
STA 389+10 - STA 389+40	RT	288	288	CLOUGH AVE
STA 358+85 - STA 359+35	LT	336	336	LAMBORN AVE
STA 358+85 - STA 359+35	RT	377	377	LAMBORN AVE
STA 398+22 - STA 399+41	LT	756	756	FISHER AVE S
STA 408+00 - STA 409+40	LT	1311	1311	CATLIN AVE S
STA 408+00 - STA 409+40	RT	1085	1085	CATLIN AVE S
CAT 0010 STAGE 4 TOTAL		46618	46618	
STAGE 5				
USH 2 - MAINLINE				
STA 147+60 - STA 148+92	LT	1604	413	
STA 148+92 - STA 152+62	LT	3525	916	
STA 152+62 - STA 156+47	LT	3532	1003	
STA 156+47 - STA 160+32	LT	4781	2614	
STA 160+32 - STA 164+02	LT	3566	1242	
STA 164+02 - STA 167+73	LT	3789	1126	
STA 167+73 - STA 171+43	LT	3811	1824	
STA 171+43 - STA 178+83	LT	7106	5004	
STA 178+83 - STA 182+53	LT	4172	1659	
STA 182+53 - STA 184+60	LT	1749	743	
SIDE ROADS				
STA 300+64 - STA 301+25	LT	621	621	JOHN AVE
STA 300+64 - STA 301+25	RT	438	438	JOHN AVE
STA 390+05 - STA 309+46	LT	525	525	HUGHITT AVE
STA 390+05 - STA 309+46	RT	527	527	HUGHITT AVE
STA 330+59 - STA 331+00	LT	260	260	HAMMOND AVE
STA 330+59 - STA 331+00	RT	691	691	HAMMOND AVE
STA 340+55 - STA 340+95	LT	451	451	CUMMING AVE
STA 340+55 - STA 340+95	RT	242	242	CUMMING AVE
STA 350+54 - STA 351+00	LT	127	127	BAXTER AVE
STA 350+54 - STA 351+00	RT	706	706	BAXTER AVE
STA 370+60 - STA 371+10	LT	506	506	GRAND AVE
STA 370+60 - STA 371+10	RT	738	738	GRAND AVE
STA 380+60 - STA 380+85	LT	125	125	WEEKS AVE
STA 380+60 - STA 380+85	RT	109	109	WEEKS AVE
STA 400+60 - STA 401+00	LT	183	183	FISHER AVE
STA 400+60 - STA 401+01	RT	242	242	FISHER AVE
STA 410+60 - STA 411+75	LT	77	77	CATLIN AVE
STA 410+60 - STA 411+75	RT	603	603	CATLIN AVE
CAT 0010 STAGE 5 TOTAL		44806	23715	
STAGE 6				
USH 2 - MEDIAN				
STA 146+97 - STA 148+52	CL	1034	1034	
STA 150+49 - STA 151+04	CL	287	287	
STA 164+22 - STA 164+27	CL	36	36	
STA 164+39 - STA 165+04	CL	408	408	
STA 169+76 - STA 170+32	CL	290	290	
STA 171+81 - STA 172+31	CL	311	311	
STA 173+08 - STA 173+49	CL	272	272	
STA 173+61 - STA 173+70	CL	63	63	
STA 176+45 - STA 176+59	CL	99	99	
STA 176+71 - STA 177+21	CL	299	299	
CAT 0010 STAGE 6 TOTAL		3099	3099	
PROJECT 8680-00-71 CAT 0010 TOTAL		176979	125802	

CONCRETE SIDEWALK

STATION - STATION	LOCATION	602.0415 6-INCH SF	SPV.0165.003 CURE AND SEAL SF	REMARKS
PROJECT 8680-00-71				
CAT 0080				
STAGE 1				
SIDE ROADS				
STA 4+05 - STA 4+26	LT	476	476	BANKS AVE
STA 687+19 - STA 687+35	LT	237	237	TOWER AVE
STA 687+05 - STA 687+35	RT	444	444	TOWER AVE
STA 98+32 - STA 99+35	LT	297	297	ODGEN AVE
STA 99+17- STA 99+35	RT	219	219	ODGEN AVE
STA 437+75 - STA 438+65	LT	543	543	MORTORELLI AVE
STA 467+30 -STA 469+00	LT	855	855	ELM AVE
STA 467+30 -STA 469+00	RT	724	724	ELM AVE
STA 205+31 'USH 2'	RT	43	43	SIDEWALK PATH
CAT 0080 STAGE 1 TOTAL		3838	3838	
STAGE 2				
SIDE ROADS				
STA 5+95 - STA 6+15	LT	139	139	BANKS AVE
STA 100+63 - STA 100+83	LT	253	253	ODGEN AVE
STA 100+63 - STA 100+83	RT	235	235	ODGEN AVE
STA 461+05 - STA 461+75	LT	358	358	PINE AVE
STA 461+05 - STA 461+75	RT	375	375	PINE AVE
STA 420+90 - STA 422+15	LT	432	432	BIRCH AVE
STA 420+90 - STA 422+15	RT	378	378	BIRCH AVE
STA 430+60 - STA 431+79	LT	871	871	CYPRESS AVE
STA 430+60 - STA 432+60	RT	989	989	CYPRESS AVE
STA 451+25 - STA 452+25	LT	397	397	POPLAR AVE
STA 471+00 - STA 472+15	LT	406	406	ELM AVE
STA 471+00 - STA 472+15	RT	386	386	ELM AVE
STA 481+00 - STA 482+15	LT	732	732	CEDAR AVE
STA 481+00 - STA 482+15	RT	497	497	CEDAR AVE
STA 500+80 - STA 501+53	LT	363	363	HILL AVE
CAT 0080 STAGE 2 TOTAL		6811	6811	
STAGE 4				
SIDE ROADS				
STA 297+72 - STA 298+80	LT	469	469	JOHN AVE
STA 297+72 - STA 298+80	RT	309	309	JOHN AVE
STA 307+80 - STA 309+05	LT	486	486	HUGHITT AVE
STA 307+80 - STA 309+05	RT	581	581	HUGHITT AVE
STA 337+75 - STA 339+00	LT	685	685	CUMMING AVE
STA 337+75 - STA 339+00	RT	718	718	CUMMING AVE
STA 347+78 - STA 348+95	LT	556	556	BAXTER AVE
STA 347+78 - STA 348+95	RT	626	626	BAXTER AVE
STA 387+25 - STA 389+10	LT	957	957	CLOUGH AVE
STA 387+25 - STA 389+10	RT	876	876	CLOUGH AVE
CAT 0080 STAGE 4 TOTAL		6263	6263	
STAGE 5				
SIDE ROADS				
STA 301+25 - STA 302+16	LT	367	367	JOHN AVE
STA 301+25 - STA 302+16	RT	455	455	JOHN AVE
STA 311+00 - STA 312+20	LT	518	518	HUGHITT AVE
STA 311+00 - STA 312+20	RT	472	472	HUGHITT AVE
STA 331+44	RT	85	85	HAMMOND AVE
STA 340+95-STA 342+37	LT	1073	1073	CUMMING AVE
STA 340+95-STA 342+56	RT	1063	1063	CUMMING AVE
STA 351+00-STA 352+29	LT	886	886	BAXTER AVE
STA 351+00-STA 352+29	RT	1608	1608	BAXTER AVE
STA 380+85 - STA 382+50	LT	831	831	WEEKS AVE
STA 380+85 - STA 382+50	RT	691	691	WEEKS AVE
STA 401+06 - STA 401+23	LT	220	220	FISHER AVE
STA 401+06 - STA 401+73	RT	335	335	FISHER AVE
CAT 0080 STAGE 5 TOTAL		8604	8604	
PROJECT 8680-00-71 CAT 0080 TOTAL		25516	25516	
PROJECT 8680-00-71 TOTAL		202495	202495	

CONT. CONCRETE SIDEWALK

STATION - STATION	LOCATION	602.0415 6-INCH SF	SPV.0165.003 CURE AND SEAL SF	REMARKS
PROJECT 8998-00-24				
CAT 0010				
STAGE 1				
STA 498+94.-STA 497+65	LT	979	979	HILL AVE
STA 498+98 - STA 497+17	RT	1157	1157	HILL AVE
PROJECT 8998-00-24 STAGE 1 TOTAL		2136	2136	
STAGE 4				
STA 327+80 - STA 329+15	LT	838	838	HAMMOND AVE
STA 327+80 - STA 329+15	RT	1148	1148	HAMMOND AVE
STA 100+22 - STA 101+42	RT	434	434	SOUTH GRAND AVE
STA 100+28 - STA 101+28	LT	776	776	SOUTH GRAND AVE
STA 357+79 - STA 358+31	RT	421	421	LAMBORN AVE
STA 357+79 - STA 358+74	LT	565	565	LAMBORN AVE
STA 407+76 - STA 408+00	LT	178	178	CATLIN AVE
PROJECT 8998-00-24 STAGE 4 TOTAL		4360	4360	
STAGE 5				
STA 371+10 - STA 372+07	LT	558	558	GRAND AVE
STA 371+10 - STA 372+07	RT	582	582	GRAND AVE
STA 411+93 - STA 412+50	LT	295	295	CATLIN AVE
STA 411+97 - STA 412+50	RT	263	263	CATLIN AVE
PROJECT 8998-00-24 STAGE 5 TOTAL		1698	1698	
PROJECT 8998-00-24 TOTAL		8194	8194	
COMBINED TOTAL (BOTH PROJECTS)		**210689**	**210689**	

CURB RAMP DETECTABLE WARNING FIELD

STATION - STATION	LOCATION	602.0515 NATURAL PATINA SF	COMMENT
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 - MAINLINE			
BANKS AVE	LT/RT	75	
TOWER AVE	LT/RT	40	
OGDEN AVE	LT/RT	40	
BIRCH AVE	RT	20	
CYPRESS/MORTOTELLI DRIVE	LT/RT	40	
POPLAR	LT/RT	10	STA 191+27 (USH 2)
RR CROSSING	LT/RT	20	
PINE AVE		30	BELKNAP PLAZA
ELM AVE		45	
CEDAR AVE	RT	10	STA 204+37-STA 205+31
HILL AVE	LT/RT	40	.
SIDEROAD			
HAYES CT/ELM AVE	LT/RT	20	
HAYES CT/HILL AVE		20	
CAT 0010 STAGE 1 TOTAL		410	
STAGE 2			
USH 2 - MAINLINE			
BANKS AVE	LT/RT	70	
TOWER AVE	LT/RT	40	
OGDEN AVE	LT/RT	40	
BIRCH AVE	LT/RT	40	
CYPRESS AVE	LT/RT	40	
POPLAR	LT/RT	40	
RR CROSSING	LT/RT	20	
PINE AVE	LT/RT	40	
ELM AVE	LT/RT	40	
CEDAR AVE	LT/RT	60	
HILL AVE	LT/RT	30	
TOTAL		460	
SIDEROAD			
CYPRESS	LT	10	VIANT CRANE
CAT 0010 STAGE 2 TOTAL		930	
STAGE 4			
USH 2 - MAINLINE			
JOHN AVE	LT/RT	40	
HUGHITT AVE	LT/RT	40	
HAMMOND	LT/RT	40	
CUMMING AVE	LT/RT	40	
BAXTER AVE	LT/RT	40	
LAMBORN AVE	LT/RT	40	
171+09 - 171+70	RT	20	
CLOUGH AVE	LT/RT	50	
FISHER AVE	LT/RT	50	PARKING LOT
CATLIN AVE	LT/RT	40	
SIDEROAD			
HUGGITT AVE	LT	10	STA 307+27
CAT 0010 STAGE 4 TOTAL		410	
STAGE 5			
USH 2 - MAINLINE			
JOHN AVE		40	
HUGHITT AVE		40	
HAMMOND		40	
CUMMING AVE		40	
BAXTER AVE		60	
GRAND AVE		40	
WEEKS AVE		40	
WEEKS AVE-FISHER AVE		70	STA 173+55-STA 176+65
FISHER AVE		70	
CATLIN AVE		40	
SIDEROAD			
HUGHITT AVE	RT	10	STA 310+72
CAT 0010 STAGE 4 TOTAL		490	
PROJECT NO. 8680-00-71 CAT 0010 TOTAL		2240	

CONT. CURB RAMP DETECTABLE WARNING FIELD

STATION - STATION	LOCATION	602.0515 NATURAL PATINA SF	COMMENT
PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
HAYES	LT	20	STA 205+31 (USH 2)
CAT 0080 STAGE 1 TOTAL		20	
STAGE 2			
CYPRESS AVE		20	
PINE		20	
HILL AVE	LT	15	STA 501+50
CAT 0080 STAGE 2 TOTAL		55	
STAGE 5			
CUMMING	RT	20	
BAXTER		40	
HILL N		10	
CAT 0080 STAGE 4 TOTAL		70	
PROJECT NO. 8680-00-71 CAT 0080 TOTAL		145	
PROJECT NO. 8998-00-24			
CAT 10			
STAGE 5			
GRAND AVE SOUTH/LAMBORN	RT	20	
HILL SOUTH		10	
CAT 0010 STAGE 2 TOTAL		30	
PROJECT NO. 8998-00-24 TOTAL		30	

CONCRETE SAFETY ISLANDS

STATION	LOCATION	602.2400 SF	SPV.0165.002 CURE AND SEAL TREATMENT SF
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
137+05 - 137+24	BANKS AVE SOUTH (SW)	110	110
PROJECT 8680-00-71 CAT 0010 TOTAL		**110**	**110**

LANDSCAPE EDGING

STATION - STATION	LOCATION	FLUSH SPV.0090.044 LF	RAISED SPV.0090.045 LF	REMARKS
PROJECT 8680-00-71				
CAT 0010				
STAGE 2				
STA 145+59 - STA 146+36	LT	77		MAINLINE ALONG PLANTER
STA 144+34 - STA 144+87	LT	52		MAINLINE ALONG PLANTER
CAT 0010 STAGE 2 TOTAL		129	0	
STAGE 4				
STA 152+98 - STA 153+72	RT	74		MAINLINE ALONG PLANTER
STA 168+14 - STA 169+48	RT	152		MAINLINE ALONG PLANTER
STA 338+27 - STA 339+50	LT	158		CUMMING AVE ALONG PLANTER
CAT 0010 STAGE 4 TOTAL		384	0	
STAGE 5				
STA 146+49 - STA 148+57	LT	214		MAINLINE ALONG PLANTER
STA 160+68 - STA 160+91	LT	36		USH 2/CUMMING AVE NE QUAD
STA 179+22 - STA 179+47	LT	44		USH 2/FISHER AVE NE QUAD
STA 179+68 - STA 180+19	LT	51		MAINLINE ALONG PLANTER
STA 180+44 - STA 180+98	LT	54		MAINLINE ALONG PLANTER
STA 181+28	LT	17		ALONG DRIVEWAY PLANTER
STA 182+88 - STA 184+23	LT	89		MAINLINE ALONG PLANTER
STA 300+80 - STA 301+65	LT	88		JOHN AVE ALONG PLANTER
STA 411+56 - STA 411+74	LT		41	CATLIN AVE PLANTER
CAT 0010 STAGE 5 TOTAL		593	41	
PROJECT 8680-00-71 CAT 0010 TOTAL		1106	41	
PROJECT 8680-00-71				
CAT 0080				
STAGE 2				
STA 451+25 - 451+58	LT	37	0	POPLAR AVE
PROJECT 8680-00-71 STAGE 2 TOTAL		37	0	
PROJECT 8680-00-71 CAT 0080 TOTAL		37	0	
ITEM TOTAL		**1143**	**41**	

CONCRETE BARRIER

STATION - STATION	603.8000 CONCRETE BARRIER TEMPOPRAR` PRECAST LF	603.8125 CONCRETE BARRIER TEMPOPRARY INSTALLED LF	614.0700 SAND BARREL ARRAYS EACH
PROJECT 8680-00-72			
CAT 0010			
146+15 210+80	4480	4480	8
PROJECT 8680-00-72 CAT 0010 TOTAL	4480	4480	8
PROJECT 8680-00-71			
CAT 0010			
146+15 210+80	1920	1920	0
ROJECT 8680-00-71 CAT 0010 TOTAL	1920	1920	0
PROJECT TOTAL	6400	6400	8

PIPE UNDERDRAIN

STATION - STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	310.0110* BASE AGGREGATE OPEN GRADED TON	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1					
USH 2 - MAINLINE					
STA 138+07 - STA 140+66	RT	259	130	18	BANKS AVE - TOWER AVE
STA 145+15 - STA 147+60	RT	145	73	10	OGDEN AVE - END STAGE 1
STA 184+60 - STA 189+15	RT	455	228	32	BEGIN STAGE 1 - MORTORELLI AVE
STA 189+15 - STA 196+16	RT	701	351	49	MORTORELLI AVE - RR TRACKS
STA 196+42 - STA 201+44	RT	503	252	35	RR TRACKS - ELM AVE
STA 201+44 - STA 208+33	RT	723	362	51	ELM AVE - HILL AVE
STA 208+33 - STA 210+18	RT	235	118	17	HILL AVE - PROJECT END
SIDE ROADS					
STA 438+64 - STA 189+33	RT	71	36	5	MORTORELLI AVE
STA 438+64 - STA 189+33	RT	71	36	5	MORTORELLI AVE
STA 468+99 - STA 469+41	RT	41	21	3	ELM AVE
STA 468+99 - STA 469+41	LT	170	85	12	ELM AVE
CAT 0010 STAGE 1 TOTAL		3374	1692	237	
STAGE 2					
USH 2 - MAINLINE					
STA 137+52 - STA 141+37	LT	259	130	18	BANKS AVE - TOWER AVE
STA 145+69 - STA 147+60	LT	333	167	23	OGDEN AVE - END STAGE 2
STA 184+60 - STA 185+79	LT	123	62	9	BEGIN STAGE 2 - BIRCH AVE
STA 185+79 - STA 188+74	LT	336	168	24	BIRCH AVE - CYPRESS AVE
STA 188+74 - STA 191+70	LT	302	151	21	CYPRESS AVE - POPLAR AVE
STA 191+70 - STA 196+16	LT	446	223	31	POPLAR - RR TRACKS
STA 196+42 - STA 198+21	LT	190	95	13	RR TRACKS - PINE AVE
STA 198+21 - STA 201+46	LT	333	167	23	PINE AVE - ELM AVE
STA 201+46 - STA 204+75	LT	342	171	24	ELM AVE - CEDAR AVE
STA 204+75 - STA 208+33	LT	372	186	26	CEDAR AVE - HILL AVE
STA 208+33 - STA 210+18	LT	171	86	12	HILL AVE - PROJECT END
SIDE ROADS					
STA 420+60 - STA 420+90	LT	30	15	2	BIRCH AVE
STA 420+60 - STA 420+90	RT	30	15	2	BIRCH AVE
STA 450+60 - STA 451+25	LT	65	33	5	POPLAR AVE
STA 450+60 - STA 451+25	RT	65	33	5	POPLAR AVE
STA 460+60 - STA 461+05	LT	61	31	4	PINE AVE
STA 460+60 - STA 461+05	RT	45	23	3	PINE AVE
STA 470+70 - STA 471+00	LT	30	15	2	ELM AVE
STA 470+70 - STA 471+00	RT	30	15	2	ELM AVE
STA 480+60 - STA 481+00	LT	58	29	4	CEDAR AVE
STA 480+60 - STA 481+00	RT	40	20	3	CEDAR AVE
STA 500+65 - STA 500+80	LT	15	8	1	HILL AVE
STA 500+65 - STA 500+80	RT	14	7	1	HILL AVE
CAT 0010 STAGE 2 TOTAL		3690	1850	258	
STAGE 4					
USH 2 - MAINLINE					
STA 147+60 - STA 148+92	RT	145	73	10	BEGIN STAGE 4 - JOHN AVE
STA 148+92 - STA 152+62	RT	391	196	28	JOHN AVE - HUGHITT AVE
STA 152+62 - STA 156+47	RT	375	188	26	HUGHITT AVE - HAMMOND AVE
STA 156+47 - STA 160+32	RT	380	190	27	HAMMOND AVE - CUMMING AVE
STA 160+32 - STA 164+02	RT	366	183	26	CUMMING AVE - BAXTER AVE
STA 164+02 - STA 167+73	RT	380	190	27	BAXTER AVE - LAMBORN AVE
STA 167+73 - STA 174+10	RT	638	319	45	LAMBORN AVE - CLOUGH AVE
STA 174+10 - STA 178+70	RT	466	233	33	CLOUGH AVE - FISHER AVE
STA 178+70 - STA 182+53	RT	381	191	27	FISHER AVE - CATLIN AVE
STA 182+53 - STA 184+60	RT	204	102	14	CATLIN AVE - END STAGE 4
SIDE ROADS					
STA 298+80 - STA 299+31	LT	51	26	4	JOHN AVE
STA 298+80 - STA 299+31	RT	51	26	4	JOHN AVE
STA 309+05 - STA 309+46	LT	47	24	3	HUGHITT AVE
STA 309+05 - STA 309+46	RT	41	21	3	HUGHITT AVE
STA 329+15 - STA 329+41	LT	27	14	2	HAMMOND AVE
SUBTOTAL		3943	1976	279	

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PIPE UNDERDRAIN

STATION - STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	310.0110* BASE AGGREGATE OPEN GRADED TON	REMARKS
STA 329+15 - STA 329+41	RT	26	13	2	HAMMOND AVE
STA 339+00 - STA 339+46	LT	56	28	4	CUMMING AVE
STA 399+00-STA 339+46	RT	47	24	3	CUMMING AVE
STA 348+95 - STA 349+46	LT	52	26	4	BAXTER AVE
STA 348+95 - STA 349+46	RT	52	26	4	BAXTER AVE
STA 358+85 - STA 359+35	LT	51	26	4	LAMBORN AVE
STA 358+85 - STA 359+35	RT	60	30	4	LAMBORN AVE
STA 389+10 - STA 389+40	LT	31	16	2	CLOUGH AVE
STA 389+10 - STA 389+40	RT	31	16	2	CLOUGH AVE
STA 393+20 - STA 399+41	LT	126	63	9	FISHER AVE
STA 393+20 - STA 399+41	RT	109	55	8	FISHER AVE
STA 408+00 - STA 409+40	LT	142	71	10	CATLIN AVE
STA 408+00 - STA 409+40	RT	140	70	10	CATLIN AVE
CAT 0010 STAGE 4 TOTAL		4866	2440	345	
STAGE 5					
USH 2 - MAINLINE					
STA 147+60 - STA 148+92		140	70	10	BEGIN STAGE 5 - JOHN AVE
STA 148+92 - STA 152+62	LT	385	193	27	JOHN AVE - HUGHITT AVE
STA 152+62 - STA 156+47	LT	378	189	27	HUGHITT AVE - HAMMOND AVE
STA 156+47 - STA 160+32	LT	386	193	27	HAMMOND AVE - CUMMING AVE
STA 160+32 - STA 164+02	LT	369	185	26	CUMMING AVE - BAXTER AVE
STA 164+02 - STA 167+73	LT	363	182	26	BAXTER AVE - GRAND AVE
STA 167+73 - STA 171+43	LT	367	184	26	GRAND AVE - WEEKS AVE
STA 171+43 - STA 178+61	LT	741	371	52	WEEKS AVE - FISHER AVE
STA 178+83 - STA 182+53	LT	365	183	26	FISHER AVE - CATILIN AVE
STA 182+83 - STA 184+60	LT	203	102	14	CATLIN AVE - END STAGE 5
SIDE ROADS					
STA 300+64 - STA 301+25	LT	61	31	4	JOHN AVE
STA 300+64 - STA 301+25	RT	61	31	4	JOHN AVE
STA 310+54 - STA 311+00	LT	48	24	3	HUGHITT AVE
STA 310+54 - STA 311+00	RT	52	26	4	HUGHITT AVE
STA 330+59 - STA 331+00	LT	42	21	3	HAMMOND AVE
STA 330+59 - STA 331+00	RT	42	21	3	HAMMOND AVE
STA 340+54 - STA 340+95	LT	57	29	4	CUMMING AVE
STA 340+54 - STA 340+95	RT	42	21	3	CUMMING AVE
STA 350+54 - STA 351+00	LT	46	23	3	BAXTER AVE
STA 350+54 - STA 351+00	RT	48	24	3	BAXTER AVE
STA 370+60 - STA 371+10	LT	50	25	4	GRAND AVE
STA 370+60 - STA 371+10	RT	51	26	4	GRAND AVE
STA 380+60 - STA 380+85	RT	26	13	2	WEEKS AVE
STA 380+60 - STA 380+85	LT	25	13	2	WEEKS AVE
STA 400+60 - STA 401+00	LT	28	14	2	FISHER AVE
STA 400+60 - STA 401+00	RT	40	20	3	FISHER AVE
STA 410+60 - STA 411+75	LT	115	58	8	CATLIN AVE
STA 410+60 - STA 411+75	RT	115	58	8	CATLIN AVE
CAT 0010 STAGE 5 TOTAL		4646	2330	328	
PROJECT 8680-00-71 CAT 0010 TOTAL		16576	8312	1168	

PIPE UNDERDRAIN

STATION - STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	310.0110* BASE AGGREGATE OPEN GRADED TON	REMARKS
PROJECT 8680-00-71					
CAT 0080					
STAGE 1					
STA 437+75 - STA 438+64	LT	90	45	6	MORTORELLI AVE
STA 437+75 - STA 438+64	RT	90	45	6	MORTORELLI AVE
STA 467+18 - STA 468+98	LT	182	91	13	ELM AVE
STA 467+18 - STA 468+98	RT	181	91	13	ELM AVE
CAT 0080 STAGE 1 TOTAL		543	272	38	
STAGE 2					
STA 420+90 - STA 422+15	LT	125	63	9	BIRCH AVE
STA 420+90 - STA 422+15	RT	125	63	9	BIRCH AVE
STA 430+60 - STA 432+60	LT	215	108	15	CYPRESS AVE
STA 430+60 - STA 432+60	RT	201	101	14	CYPRESS AVE
STA 451+25 - STA 452+25	LT	101	51	7	POPLAR AVE
STA 451+25 - STA 452+25	RT	100	50	7	POPLAR AVE
STA 461+05 - STA 461+75	LT	74	37	5	PINE AVE
STA 461+05 - STA 461+75	RT	70	35	5	PINE AVE
STA 471+00 - STA 472+15	LT	115	58	8	ELM AVE
STA 471+00 - STA 472+15	RT	115	58	8	ELM AVE
STA 481+00 - STA 482+15	LT	118	59	8	CEDAR AVE
STA 481+00 - STA 482+15	RT	115	58	8	CEDAR AVE
STA 500+78 - STA 501+85	LT	105	53	7	HILL AVE
STA 500+78 - STA 501+85	RT	105	53	7	HILL AVE
CAT 0080 STAGE 2 TOTAL		1684	847	117	
STAGE 4					
STA 297+72 - STA 298+80	LT	108	54	8	JOHN AVE
STA 297+72 - STA 298+80	RT	108	54	8	JOHN AVE
STA 307+80 - STA 309+05	LT	136	68	10	HUGHITT AVE
STA 307+80 - STA 309+05	RT	125	63	9	HUGHITT AVE
STA 337+90 - STA 339+00	LT	137	69	10	CUMMING AVE
STA 337+90 - STA 339+00	RT	111	56	8	CUMMING AVE
STA 347+78 - STA 348+95	LT	118	59	8	BAXTER AVE
STA 347+78 - STA 348+95	RT	118	59	8	BAXTER AVE
STA 387+25 - STA 389+10	LT	187	94	13	CLOUGH AVE
STA 387+25 - STA 389+10	RT	187	94	13	CLOUGH AVE
CAT 0080 STAGE 4 TOTAL		1335	670	95	
STAGE 5					
STA 301+25 - STA 302+17	LT	91	46	6	JOHN AVE
STA 301+25 - STA 302+17	RT	91	46	6	JOHN AVE
STA 311+00 - STA 312+20	LT	120	60	8	HUGHITT AVE
STA 311+00 - STA 312+20	RT	133	67	9	HUGHITT AVE
STA 340+95 - STA 342+56	LT	171	86	12	CUMMING AVE
STA 340+95 - STA 342+56	RT	162	81	11	CUMMING AVE
STA 351+00 - STA 352+29	LT	132	66	9	BAXTER AVE
STA 351+00 - STA 352+29	RT	133	67	9	BAXTER AVE
STA 380+85 - STA 382+50	LT	165	83	12	WEEKS AVE
STA 380+85 - STA 382+50	RT	165	83	12	WEEKS AVE
STA 401+00 - STA 402+15	LT	118	59	8	FISHER AVE
STA 401+00 - STA 402+15	RT	115	58	8	FISHER AVE
CAT 0080 STAGE 5 TOTAL		1596	802	110	
PROJECT 8680-00-71 CAT 0080 TOTAL		5158	2591	360	
PROJECT 8680-00-71 TOTAL		21734	10903	1528	

PIPE UNDERDRAIN

STATION - STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	310.0110* BASE AGGREGATE OPEN GRADED TON	REMARKS
PROJECT 8998-00-24					
CAT 0010					
STAGE 1					
STA 497+75 - STA 498+97	LT	126	63	9	HILL AVE
STA 497+75 - STA 498+97	LT	124	62	9	HILL AVE
PROJECT 8998-00-24 STAGE 1 TOTAL		250	125	18	
STAGE 4					
STA 327+80 - STA 329+15	LT	135	68	10	HAMMOND AVE
STA 327+80 - STA 329+15	RT	135	68	10	HAMMOND AVE
STA 357+79 - STA 358+85	LT	108	54	8	LAMBORN AVE
STA 357+79 - STA 358+33	RT	64	32	5	LAMBORN AVE
STA 100+26 - STA 101+66	LT	165	83	12	SOUTH GRAND AVE
STA 100+37 - STA 101+66	RT	118	59	8	SOUTH GRAND AVE
STA 407+83 - STA 408+00	LT	17	9	1	CATLIN AVE
STA 407+83 - STA 408+00	RT	17	9	1	CATLIN AVE
PROJECT 8998-00-24 STAGE 4 TOTAL		759	382	55	
STAGE 5					
STA 411+75 - STA 412+50	LT	75	38	5	CATLIN AVE
STA 411+75 - STA 412+50	RT	75	38	5	CATLIN AVE
PROJECT 8998-00-24 STAGE 5 TOTAL		150	76	10	
PROJECT 8998-00-24 TOTAL		1159	583	83	
COMBINED TOTAL (BOTH PROJECTS)		**22893**	**11486**	**1611**	

*SHOWN ELSEWHERE IN PLAN

MOBILIZATION

PROJECT/CATEGORY	619.1000 EACH
8680-00-71 CAT 0010	0.46
8680-00-71 CAT 0020	0.12
8680-00-71 CAT 0030	0.04
8680-00-71 CAT 0040	0.08
8680-00-71 CAT 0060	0.04
8680-00-71 CAT 0070	0.08
8680-00-72 CAT 0010	0.18
ITEM TOTAL	1

CONCRETE MEDIAN SLOPED NOSE

STATION - STATION	LOCATION	620.0300 SF	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 3			
USH 2 - MEDIAN			
STA 186+07	CL	70	TYPE 1
STA 187+47	CL	50	TYPE 1
STA 195+17	CL	8	TYPE 2
STA 197+41	CL	8	TYPE 2
STA 198+54	CL	65	TYPE 1
STA 198+74	CL	65	TYPE 1
STA 205+21	CL	65	TYPE 1
STA 206+87	CL	50	TYPE 1
CAT 0010 STAGE 3 TOTAL		381	
STAGE 6			
USH 2 - MEDIAN			
STA 146+97	CL	50	TYPE 1
STA 148+74	CL	71	TYPE 1
STA 150+49	CL	50	TYPE 1
STA 151+04	CL	50	TYPE 1
STA 164+02	CL	71	TYPE 1
STA 165+04	CL	50	TYPE 1
STA 169+76	CL	50	TYPE 1
STA 170+32	CL	50	TYPE 1
STA 171+81	CL	51	TYPE 1
STA 172+31	CL	52	TYPE 1
STA 173+08	CL	52	TYPE 1
STA 173+70	CL	77	TYPE 1
STA 176+45	CL	63	TYPE 1
STA 177+21	CL	50	TYPE 1
CAT 0010 STAGE 6 TOTAL		787	
PROJECT 8680-00-71 CAT 0010 TOTAL		1168	

LANDMARK REFERENCE MONUMENTS AND CAST IRON COVERS

STATION - STATION	LOCATION	621.1100 EACH	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STA 156+47	CL	1	BELKNAP & HAMMOND
STA 182+53	CL	1	BELKNAP & CATLIN
STA 208+34	CL	1	BELKNAP & HILL
CAT 0010 TOTAL		3	
PROJECT 8680-00-71 CAT 0010 TOTAL		3	

DUST CONTROL SURFACE TREATMENT

STATION	PAVED AREA (SY)	APPLICATIONS	623.0200 SY
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 MAINLINE	9921	4	39680
MORTORELLI DR	251	4	1000
ELM AVE S / A HAYES CT	319	4	1280
8680-00-71 STAGE 1 TOTAL			41960
STAGE 2			
USH 2 MAINLINE	10079	4	40310
BIRCH AVE	94	4	380
CYPRESS AVE	45	4	180
POPLAR AVE	260	4	1040
PINE AVE N	199	4	800
ELM AVE N	80	4	320
CEDAR AVE N	162	4	650
HILL AVE N	46	4	180
8680-00-71 STAGE 2 TOTAL			43860
STAGE 3			
USH 2 MEDIAN	3003	4	12010
8680-00-71 STAGE 3 TOTAL			12010
STAGE 4			
USH 2 MAINLINE	12915	4	51660
JOHN AVE S	145	4	580
HUGHITT AVE S	157	4	630
CUMMING AVE S	204	4	820
BAXTER AVE S	187	4	750
CLOUGH AVE S	109	4	430
FISHER AVE S	377	4	1510
CATLIN AVE S	764	4	3060
8680-00-71 STAGE 4 TOTAL			59440
STAGE 5			
USH 2 MAINLINE	13129	4	52520
JOHN AVE N	168	4	670
HUGHITT AVE N	192	4	770
CUMMING AVE N	191	4	760
BAXTER AVE N	136	4	550
GRAND AVE N	308	4	1230
WEEKS AVE N	81	4	320
FISHER AVE N	207	4	830
CATLIN AVE N	453	4	1810
8680-00-71 STAGE 5 TOTAL			59460
STAGE 6			
USH 2 MEDIAN	4334	4	17336
8680-00-71 STAGE 6 TOTAL			17336
PROJECT 8680-00-71 CAT 0010 TOTAL			**234066**

DUST CONTROL SURFACE TREATMENT

STATION	PAVED AREA (SY)	APPLICATIONS	623.0200 SY
PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
MORTORELLI DR	360	4	1440
ELM AVE S / A HAYES CT	644	4	2570
8680-00-71 STAGE 1 TOTAL			4010
STAGE 2			
BIRCH AVE	496	4	1980
CYPRESS AVE	819	4	3280
POPLAR AVE	355	4	1420
PINE AVE N	337	4	1350
ELM AVE N	306	4	1230
CEDAR AVE N	418	4	1670
HILL AVE N	406	4	1620
8680-00-71 STAGE 2 TOTAL			12550
STAGE 4			
JOHN AVE S	309	4	1240
HUGHITT AVE S	469	4	1870
CUMMING AVE S	535	4	2140
BAXTER AVE S	399	4	1600
CLOUGH AVE S	573	4	2290
FISHER AVE S	46	4	180
8680-00-71 STAGE 4 TOTAL			9320
STAGE 5			
JOHN AVE N	264	4	1050
HUGHITT AVE N	489	4	1960
CUMMING AVE N	744	4	2970
BAXTER AVE N	422	4	1690
WEEKS AVE N	586	4	2340
FISHER AVE N	510	4	2040
8680-00-71 STAGE 5 TOTAL			12050
PROJECT 8680-00-71 CAT 0080 TOTAL			**37930**
PROJECT 8680-00-71 TOTAL			**271996**
PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
HILL AVE S	455	4	1820
8680-00-71 STAGE 1 TOTAL			1820
STAGE 4			
CATLIN AVE S	92	4	370
8680-00-71 STAGE 4 TOTAL			370
STAGE 5			
GRAND AVE N	592	4	2370
CATLIN AVE N	229	4	920
8680-00-71 STAGE 5 TOTAL			3290
PROJECT 8998-00-24 CAT 0010 TOTAL			**5480**
ITEM TOTAL			**277476**

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FINISHING ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	SPV.0180.003 HYDROSEEDING SY
PROJECT 8680-00-71			
CAT 0010			
UNDISTRIBUTED	MAINLINE	500	500
PROJECT 8680-00-71 CAT 0010 TOTALS		**500**	**500**
PROJECT 8680-00-71			
CAT 0080			
STAGE 1			
STA 467+18 - STA 468+98	ELM AVE	206	206
STAGE 2			
STA 461+05 - STA 461+75	PINE AVE	45	45
STA 471+00 - STA 472+15	ELM AVE	168	168
STA 481+00 - STA 482+15	CEDAR AVE	80	80
STA 500+78 - STA 501+85	HILL AVE	27	27
STAGE 4			
STA 297+72 - STA 298+80	JOHN AVE	157	157
STA 307+80 - STA 309+05	HUGHITT AVE	103	103
STA 347+78 - STA 348+95	BAXTER AVE	62	62
STA 387+25 - STA 389+10	CLOUGH AVE	190	190
STAGE 5			
STA 301+25 - STA 302+17	JOHN AVE	134	134
STA 311+00 - STA 312+20	HUGHITT AVE	79	79
STA 380+65 - STA 382+50	WEEKS AVE	226	226
STA 401+00 - STA 402+15	FISHER AVE	36	36
STA 420+90 - STA 422+15	BIRCH AVE	81	81
STA 430+60 - STA 432+60	CYPRESS AVE	35	35
STA 451+25 - STA 452+25	POPLAR AVE	52	52
PROJECT 8680-00-71 CAT 0080 TOTALS		**1681**	**1681**
PROJECT 8998-00-24			
CAT 0010			
STAGE 1			
STA 497+75 - STA 498+98	HILL AVE	91	91
STAGE 4			
STA 357+79 - STA 358+85	LAMBORN AVE	58	58
STA 100+26 - STA 101+66	SOUTH GRAND AVE	113	113
STA 407+83 - STA 408+00	CATLIN AVE	43	43
STAGE 5			
STA 411+75 - STA 412+50	CATLIN AVE	82	82
PROJECT 8898-00-24 CAT 0010 TOTALS		**387**	**387**
ITEM TOTALS		**2568**	**2568**

EROSION CONTROL ITEMS

STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	REMARKS
8680-00-71 CAT 0010				
BELKNAP ST				
194+00	RT	100	100	
MORTORELLI AVE				
438+60	RT	100	100	
UNDISTRUBUTED				
WASTE SITE		1000	1000	
TOTALS		1200	1200	

WATER FOR SEEDED AREAS

STATION	SPV.0120.001 MGAL
8680-00-71 CAT 0010	
CAT 0010	
STA 136+54 - STA 210+18	6
ITEM TOTAL	6

3

MOBILIZATIONS FOR EROSION CONTROL

STATION	LOCATION	628.1905 EACH	628.1910 EMERGENCY EACH
PROJECT 8680-00-71			
CAT 0010			
STAGE 1-3			
135+28 - 147+90	LT/RT	1	2
184+60 - 210+18	LT/RT	3	4
STAGE 4-7			
147+90 - 184+60	LT/RT	4	6
PROJECT 8680-00-71 CAT 0010 TOTAL		8	12

TRACKING PAD

STATION	628.7560 EACH
PROJECT 8680-00-71	
CAT 0010	
STAGE 1-3	
135+28 - 147+90	3
184+60 - 210+18	3
STAGE 4-7	
147+90 - 184+60	4
PROJECT 8680-00-71 CAT 0010 TOTAL	**10**

INLET PROTECTION

STATION*	STRUCTURE	LOCATION*	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
PROJECT 8680-00-71					
CATEGORY 0060					
STAGE 1 YEAR 1					
BELKNAP STREET					
138+07	62	33.5' RT	1		1
140+67	70	33.5' RT	1		1
141+85	73	39.0' RT	1		1
143+56	80	61.0' RT	1		1
144+15	81	40.5' RT	1		1
144+67	82	33.3' RT	1		1
144+67	83	83.2' RT	1		1
145+77	88	33.5' RT	1		1
184+64	22JJ	34.5' RT	1		1
184+74	22J	34.5' RT	1		1
184+84	22I	34.5' RT	1		1
185+59	22H	34.5' RT	1		1
188+15	23I	34.5' RT	1		1
188+54	23H	34.5' RT	1		1
191+10	24C	34.5' RT	1		1
191+36	24D	47.5' RT	1		1
191+40	24B	34.5' RT	1		1
192+82	30B	34.5' RT	1		1
192+92	30A	34.5' RT	1		1
193+04	30	34.5' RT	1		1
194+15	31A	86.2' RT	1		1
195+00	32A	34.5' RT	1		1
195+12	32	34.5' RT	1		1
198+12	33K	53.5' RT	1		1
198+40	33L	53.5' RT	1		1
198+50	33A	34.5' RT	1		1
198+95	33B	34.5' RT	1		1
199+37	33M	34.5' RT	1		1
200+59	40	53.5' RT	1		1
201+93	42	34.5' RT	1		1
203+60	43	34.5' RT	1		1
205+03	44	34.5' RT	1		1
205+03	44G	64.1' RT	1		1
207+72	45	34.5' RT	1		1
MORTORELLI DRIVE					
439+19	55C	20.5' LT	1		1
439+29	55B	20.5' LT	1		1
439+29	55A	18.5' RT	1		1
POPLAR AVENUE					
450+61	25A	20.5' LT	1		1
450+61	25B	18.5' RT	1		1
ELM AVENUE					
469+00	42D	17.5' RT	1		1
469+38	41A	17.5' LT	1		1
469+42	42AA	18.5' RT	1		1
A HAYES CT					
510+37	42C	11.0' RT	1		1
510+37	42B	11.0' LT	1		1
510+47	42E	11.0' RT	1		1
HILL AVENUE					
499+47	46A	25' RT	1		1
499+50	46	32.6' LT	1		1
499+59	46AA	31.4' RT	1		1
A HAYES CT					
519+58	46B	10.6' LT	1		1
PROJECT 8680-00-71					
CATEGORY 0070					
ELM AVENUE					
467+77	41C	17.5' RT	1		1
467+78	41B	17.5' LT	1		1
PROJECT 8998-00-24					
CATEGORY 0010					
HILL AVENUE					
497+94	46G	16.6' RT	1		1
498+12	46E	21.8' LT	1		1
498+44	46D	25.5' LT	1		1
498+44	46F	21.5' RT	1		1
A HAYES CT					
519+58	46C	10.6' RT	1		1
STAGE 1 YEAR 1 SUBTOTALS			56		56

INLET PROTECTION (CONT)

STATION*	STRUCTURE	LOCATION*	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
PROJECT 8680-00-71					
CATEGORY 0060					
STAGE 2 YEAR 1					
BELKNAP STREET					
137+73	61A	58.5' LT	1		1
140+72	71	33.5' LT	1		1
142+00	72	33.7' LT	1		1
144+53	86	38.5' LT	1		1
144+93	84	40.9' LT	1		1
145+44	85	54.8 LT	1		1
145+75	87	33.7' LT	1		1
184+74	22C	34.5' LT	1		1
184+84	22B	34.5' LT	1		1
185+34	22A	34.5' LT	1		1
188+29	23B	47' LT	1		1
188+35	23A	34.5' LT	1		1
191+17	24A	34.5' LT	1		1
192+92	30C	34.5' LT	1		1
193+02	30D	34.5' LT	1		1
194+19	31	34.5' LT	1		1
197+78	33E	34.5' LT	1		1
198+76	33C	34.5' LT	1		1
198+95	33J	34.5' LT	1		1
201+98	42A	34.5' LT	1		1
203+60	43A	34.5' LT	1		1
205+38	44A	34.5' LT	1		1
205+26	44AA	53.5' LT	1		1
206+62	45AA	53.0' LT	1		1
207+90	45A	34.5' LT	1		1
209+84	47	27.8' LT	1		1
BIRCH AVENUE					
420+64	22D	13.0' LT	1		1
420+64	22E	14.0' RT	1		1
CYPRESS AVENUE					
430+51.30	23C	5.2' LT	1		1
PINE AVENUE					
460+67	33F	22.4' LT	1		1
460+62	33G	20.5' RT	1		1
CEDAR AVENUE					
480+59	44D	15.5' LT	1		1
480+60	44C	15.5' RT	1		1
HILL AVENUE					
500+56	45B	14.5' LT	1		1
500+67	45C	17.4' RT	1		1
PROJECT 8680-00-71					
CATEGORY 0070					
BIRCH AVENUE					
422+06	22F	18.8' RT	1		1
422+06	22G	18.2' LT	1		1
CYPRESS AVENUE					
430+67	23E	22.9' RT	1		1
431+92	23EE	23.0' RT	1		1
432+10	23F	16.5' RT	1		1
432+10	23G	10.5' LT	1		1
PINE AVENUE					
461+64	33H	11.5' LT	1		1
461+64	33I	20.5' RT	1		1
461+35	33FF	25.5' LT	1		1
ELM AVENUE					
471+44	34C	13.5' LT	1		1
472+01	34B	13.5' LT	1		1
472+01	34E	13.5' RT	1		1
472+07	34A	13.5' LT	1		1
472+07	34D	13.5' RT	1		1
CEDAR AVENUE					
481+48	44CC	15.5' RT	1		1
481+63	44EE	29.5' RT	1		1
482+05	44F	13.5' LT	1		1
482+08	44E	13.5' RT	1		1
HILL AVENUE					
501+37	45F	15.0' LT	1		1
501+37	45H	15.1' RT	1		1
501+79	45G	23' LT	1	1	
STAGE 2 YEAR 1 SUBTOTALS			56	1	55

INLET PROTECTION (CONT)

STATION*	STRUCTURE	LOCATION*	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
PROJECT 8680-00-71					
CATEGORY 0060					
STAGE 5 YEAR 2					
BELKNAP STREET					
148+49	1	33.5' RT	1		1
149+31	2	33.5' RT	1		1
149+75	3	38.4' RT	1		1
151+90	3A	35.8' RT	1		1
152+22	4	33.5' RT	1		1
155+50	5	38.3' RT	1		1
155+92	6	33.5' RT	1		1
156+13	7	39.5' RT	1		1
156+85	8	40.7' RT	1		1
157+48	8GG	55.0' RT	1		1
158+40	9A	39.5' RT	1		1
159+32	9	39.5' RT	1		1
159+95	10	33.5' RT	1		1
162+50	11	39.5' RT	1		1
163+10	12	35.9' RT	1		1
163+63	13K	33.5' RT	1		1
167+34	15G	33.5' RT	1		1
166+69	15H	39.5' RT	1		1
170+33	17G	38.8' RT	1		1
171+01	17F	34.5' RT	1		1
173+36	18E	34.5' RT	1		1
173+46	18DD	34.5' RT	1		1
173+80	18D	35.8' RT	1		1
174+55	18F	34.5' RT	1		1
177+87	19I	43.4' RT	1		1
178+19	19H	60.5' RT	1		1
179+21	19JJ	50.5' RT	1		1
181+63	20D	34.5' RT	1		1
181+73	20C	34.5' RT	1		1
JOHN AVENUE					
298+80	2G	14.5' LT	1		1
298+80	2F	14.5' RT	1		1
HUGHITT AVENUE					
309+32	4I	12.5' LT	1		1
309+37	4J	16.5' RT	1		1
HAMMOND AVENUE					
329+39	8G	30.1' RT	1		1
329+42	7A	27.9' LT	1		1
CUMMING AVENUE					
339+44	10G	7' LT	1		1
339+46	10H	19.7' RT	1		1
BAXTER AVENUE					
349+31	14A	17.7' RT	1		1
349+31	14B	17.7' LT	1		1
LAMBORN AVENUE					
359+32	15J	23.5' RT	1		1
359+22	15I	23.5' LT	1		1
CLOUGH AVENUE					
389+22	18H	19.3' RT	1		1
389+24	18G	18.8' LT	1		1
FISHER AVENUE					
398+36	19L	29.9' LT	1		1
398+41	19M	22' RT	1		1
398+33.50	19K	15.5' LT	1		1
398+54.50	19MM	25.0' RT	1		1
399+39	19J	15.5' RT	1		1
399+39	19G	15.5' LT	1		1
CATLIN AVENUE					
408+05	21L	33' LT	1		1
408+40	21K	21.5' RT	1		1
408+50	21J	21.5' RT	1		1
408+50	21I	35' LT	1		1
409+38	21H	19.1' LT	1		1
409+43	21G	21.3' RT	1		1

INLET PROTECTION (CONT)

STATION*	STRUCTURE	LOCATION*	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
PROJECT 8680-00-71					
CATEGORY 0070					
JOHN AVENUE					
297+82	2I	14.4' RT	1		1
297+87	2K	14' LT	1		1
297+90	2H	14.5' RT	1		1
297+95	2J	14' LT	1		1
298+70	2FF	14.5' RT	1		1
HUGHITT AVENUE					
307+88	4M	14.5' LT	1		1
307+88	4N	14.5' RT	1		1
308+07	4L	13.8' LT	1		1
308+07	4K	15.2' RT	1		1
CUMMING AVENUE					
338+04	10M	14.5' LT	1		1
338+25	10J	14.5' LT	1		1
338+25	10L	18.9' RT	1		1
338+36	10K	25.5' LT	1		1
338+50	10I	25.3' RT	1		1
BAXTER AVENUE					
348+00	14E	11.5' RT	1		1
348+00	14F	11.5' LT	1		1
348+33	14C	19.5' RT	1		1
348+33	14D	19.5' LT	1		1
CLOUGH AVENUE					
387+90	18I	11.4' RT	1		1
387+91	18J	11.4' LT	1		1
PROJECT 8998-00-24					
CATEGORY 0010					
HAMMOND AVENUE					
327+86	7C	32.3' LT	1		1
327+86	7E	29.6' RT	1		1
327+95	7B	32.5' LT	1		1
327+95	7D	29.7' RT	1		1
LAMBORN AVENUE					
358+36	15M	23.2' LT	1		1
GRAND AVENUE					
100+59	15L	14.5' RT	1		1
100+60	15K	17.7' LT	1		1
STAGE 5 YEAR 2 SUBTOTAL			711	629	711

INLET PROTECTION (CONT)

STATION*	STRUCTURE	LOCATION*	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
PROJECT 8680-00-71					
CATEGORY 0060					
STAGE 6 YEAR 2					
BELKNAP STREET					
148+49	1A	33.5' LT	1		1
149+34	2A	33.5' LT	1		1
149+70	2B	37.7' LT	1		1
151+90	4AA	35.8' LT	1		1
152+22	4A	33.5' LT	1		1
155+17	6B	38.8' LT	1		1
155+92	6A	33.5' LT	1		1
156+81	8A	39.0' LT	1		1
159+32	10B	39.5' LT	1		1
159+93	10A	33.5' LT	1		1
162+82	13B	39.5' LT	1		1
163+62	13A	33.5' LT	1		1
166+55	15B	39.5' LT	1		1
167+15	15A	33.5' LT	1		1
170+42	17B	39.5' LT	1		1
171+01	17A	34.5' LT	1		1
173+41	18CC	55.5' LT	1		1
173+45	18C	39.5' LT	1		1
173+98	18B	39.5' LT	1		1
174+19	18A	39.5' LT	1		1
174+23	18AA	69' LT	1		1
177+96	19B	38.6' LT	1		1
178+48	19A	36.6' LT	1		1
181+63	20B	34.5' LT	1		1
181+73	20A	34.5' LT	1		1
JOHN AVENUE					
300+64	1B	11.4' LT	1		1
300+64	1C	11.6' RT	1		1
HUGHITT AVENUE					
310+56	4B	12.4' LT	1		1
310+56	4C	12.6' RT	1		1
HAMMOND AVENUE					
330+55	8B	24.8' RT	1		1
330+80	8D	35.5' LT	1		1
330+82	8C	30.1' RT	1		1
CUMMING AVENUE					
340+64	10C	17.6' LT	1		1
340+79	10D	26.0' RT	1		1
BAXTER AVENUE					
350+62	13C	10.5' LT	1		1
350+78	13D	18.5' RT	1		1
GRAND AVENUE					
370+72	15C	29.5' LT	1		1
370+82	15D	29.5' RT	1		1
WEEKS AVENUE					
380+63	17C	14.3' RT	1		1
FISHER AVENUE					
400+63	19C	19.5' LT	1		1
400+62	19D	19.5' RT	1		1
CATLIN AVENUE					
410+62	21A	19' LT	1		1
410+62	21C	20' RT	1		1

INLET PROTECTION (CONT)

STATION*	STRUCTURE	LOCATION*	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
PROJECT 8680-00-71					
CATEGORY 0070					
JOHN AVENUE					
301+52	1D	14.5' LT	1		1
301+52	1E	14.5' RT	1		1
HUGHITT AVENUE					
311+57	4G	20.5' LT	1		1
311+82	4D	12.5' RT	1		1
311+82	4F	14.5' LT	1		1
311+90	4E	12.5' RT	1		1
CUMMING AVENUE					
341+46	10E	26' RT	1		1
341+95	10FF	8.0' LT	1		1
342+00	10EE	20' RT	1		1
342+21	10F	14.5' LT	1		1
BAXTER AVENUE					
351+04	13E	16.5' LT	1		1
351+52	13G	16.5' LT	1		1
351+60	13L	24.5' LT	1		1
351+69	13GG	18.5' RT	1		1
351+94	13O	110.0' LT	1		1
351+94	13N	36.5' LT	1		1
351+96	13M	13.0' LT	1		1
352+23	13J	21' RT	1		1
352+24	13I	21.1' LT	1		1
WEEKS AVENUE					
381+26	17D	14.5' RT	1		1
381+26	17E	20.5' LT	1		1
FISHER AVENUE					
401+58	19DD	19.5' RT	1		1
401+68	19E	19.5' RT	1		1
401+93	19F	27.5' LT	1		1
PROJECT 8998-00-24					
CATEGORY 0010					
GRAND AVENUE					
372+00	15E	26.5' LT	1		1
372+00	15F	29.1' RT	1		1
CATLIN AVENUE					
412+25	21D	19.4' RT	1		1
412+25	21E	20.9' LT	1		1
STAGE 6 YEAR 2 SUBTOTALS			700	629	700
PROJECT 8680-00-71					
CATEGORY 0060					
UNDISTRIBUTED/EXISTING INLETS			34	10	1
PROJECT 8680-00-71					
CATEGORY 0070					
UNDISTRIBUTED/EXISTING INLETS			17	9	1
SUBTOTALS			51	19	2
PROJECT 8680-00-71 CATEGORY 0060 TOTALS			215	10	182
PROJECT 8680-00-71 CATEGORY 0070 TOTALS			84	10	67
PROJECT 8998-00-24 CATEGORY 0010 TOTALS			16	0	16
PROJECT ITEM TOTALS			315	20	265

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
CAT. 0010															
133+00	RT	1-0	W3-3	Traffic Signals Ahead Symbol	36 X 36	---	---	9.00	---	---	1	---	---	---	ATTACH TO LIGHT POLE ON VIADUCT
135+68	MEDIAN	1-1	R3-20L	BEGIN LEFT TURN LANE	24 X 36	6.00	---	---	---	---	1	---	---	---	
135+88	MEDIAN	1-2	---	LEFT TURN LANE	---	---	---	---	---	---	---	---	1	1	
137+08	MEDIAN	1-3	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	1	1	
137+14	LT	1-4	M1-94H	Banks Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
136+98	LT	1-5	R1-2	YIELD	36 X 31	3.88	---	---	---	---	---	---	1	1	
137+28	LT	1-7	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO ISLAND TRAFFIC SIGNAL POLE
137+09	RT	1-8	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO ISLAND TRAFFIC SIGNAL POLE
137+42	RT	1-9	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
137+52	RT	1-10	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	1	1	BANKS AVE MEDIAN FACING NORTH
137+65	LT	1-11	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
137+88	LT	1-12	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	1	---	1	1	
137+87	RT	1-13	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
138+03	RT	1-14	M1-94H	Banks Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
138+02	LT	1-15	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
138+54	RT	1-16	---	UW Superior Wessman Arena (ahead arrow)	54 X 30	11.25	---	---	---	---	---	2	1	2	
138+92	RT	1-17	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
138+94	LT	1-19	---	LAKE SUPERIOR CIRCLE TOUR	---	---	---	---	---	---	---	---	1	---	
138+92	LT	1-20	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
139+61	LT	1-21	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	1	---	1	1	LOCATED ON ENTRANCE FACING SOUTH
140+07	LT	1-23	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE ABOVE NO PARKING SIGN
140+07	RT	1-24	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE
140+10	LT	1-25	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
140+98	LT	1-27	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
140+98	LT	1-28	J13-1	2 (USH Route Marker) Double Arrow	24 X 45	7.50	---	---	---	---	---	---	1	---	ATTACH TO SAME POLE ABOVE STOP SIGN
140+83	LT	1-29	J4-1	WEST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	1	---	---	
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---		---	---	
140+82	LT	1-30	M1-94H	Tower Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
140+79	RT	1-31	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
140+79	RT	1-32	J13-1	35 (STH Route Marker) Double Arrow	24 X 45	7.50	---	---	---	---	---	---	1	---	ATTACH TO SAME POLE ABOVE STOP SIGN
140+97	RT	1-33	J4-1	SOUTH 35 (STH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE FACING NORTH
141+18	RT	1-34	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
141+33	RT	1-35	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	1	1	TOWER AVE MEDIAN FACING NORTH
141+43	LT	1-36	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	1	1	TOWER AVE MEDIAN FACING SOUTH
141+34	LT	1-37	---	Lane Control Arrows	---	---	---	---	---	---	---	---	1	---	
141+57	LT	1-38	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
141+75	LT	1-39	J4-1	NORTH 35 (STH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE FACING SOUTH
141+98	LT	1-40	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
141+98	LT	1-41	J13-1	35 (STH Route Marker) Double Arrow	24 X 45	7.50	---	---	---	---	---	---	1	---	ATTACH TO SAME POLE ABOVE STOP SIGN
141+97	RT	1-42	M1-94H	Tower Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
141+78	RT	1-43	J13-1	2 (USH Route Marker) Double Arrow	24 X 45	7.50	---	---	---	---	---	---	1	---	ATTACH TO SIGNAL POLE ABOVE STOP SIGN
141+78	RT	1-44	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO SAME POLE BELOW ROUTE MARKER
141+82	RT	1-45	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	1	---	1	1	TOWER AVE SIGN FACING NORTH
141+78	RT	1-46	R3-8W	Left ONLY Ahead ONLY Right ONLY	54 X 30	11.25	---	---	---	---	---	---	---	---	ATTACH TO NEW LIGHT POLE ON TOWER AVE
142+30	RT	1-47	J4-1	EAST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	1	---	1	---	
142+80	RT	2-0	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
142+85	LT	2-1	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Right arrow)	20 X 18	2.50	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	1	--- ---	ATTACH TO LIGHT POLE
143+85	RT	2-2	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
142+85	LT	2-3	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Right arrow)	20 X 18	2.50	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	1	1	ATTACH TO LIGHT POLE
144+76	LT	2-4	M1-94H	Ogden Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
144+76	LT	2-5	J1-1	JCT 35 (STH Route Marker)	24 X 39	6.50	---	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
SUBTOTAL						256.13	55.12	9.00	0	0	10	3	42	13	

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
144+95	LT	2-6	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
144+76	RT	2-8	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
145+08	RT	2-9	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
145+33	LT	2-11	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
145+67	LT	2-12	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
145+67	RT	2-13	M1-94H	Ogden Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
145+51	RT	2-14	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
146+54	LT	2-16	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	
147+64	LT	2-17	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
148+57	RT	2-19	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	---	1	1	2	LOCATED AT ENTRANCE FACING EAST
			R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	---				
148+50	RT	2-21	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	---	---	---	1	1	ATTACH TO TRAFFIC SIGNAL POLE
148+50	RT	2-22	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	---	---			ATTACH TO TRAFFIC SIGNAL POLE FACING EAST
148+79	MEDIAN	2-23	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
148+80	LT	2-24	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH JOHN AVE
148+80	LT	2-25	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	1	---	---	1	1	LOCATED AT ENTRANCE FACING WEST
149+12	LT	2-26	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	1	---	---	1	1	LOCATED AT ENTRANCE FACING EAST
149+13	LT	2-27	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	1	---	---	1	1	
148+50	RT	2-28	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	---	---	---	1	1	ATTACH TO TRAFFIC SIGNAL POLE
148+50	RT	2-29	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	---	---			ATTACH TO TRAFFIC SIGNAL POLE FACING EAST
		2-30	J4-1	EAST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---	---	---	
149+94	RT	3-2	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---			
				TWO HOUR PARKING 7 AM - 7 PM (Left arrow)			---	---	---	1	---	---	1	1	
150+29	LT	3-3	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---			
				TWO HOUR PARKING 7 AM - 7 PM (Double arrow)			---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
151+93	RT	3-4	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---			
				TWO HOUR PARKING 7 AM - 7 PM (Right arrow)			---	---	---	1	---	---	1	1	
152+45	LT	3-6	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH HUGHITT AVE
152+41	RT	3-7	---	NO NIGHT PARKING 3 AM - 6 AM	---	---	---	---	---	---	---	---	1	1	
152+42	RT	3-8	---	NO NIGHT PARKING 3 AM - 6 AM	---	---	---	---	---	---	---	---	1	1	
152+82	RT	3-9	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING SOUTH HUGHITT AVE
			M4-8	DETOUR	24 X 12		2.00								
			M3-2	EAST	24 X 12		2.00								
			M4-8	DETOUR	24 X 12		2.00								
153+02	RT	3-10	M3-3	SOUTH	24 X 12	---	2.00	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			M50-2	2(USH Route Marker) 53(Interstate Route Marker)	48 X 24		8.00								ROUTE MARKERS ON ONE BOARD
			M50-2A	Advance Right Arrows	48 X 21		7.00								ARROWS ON ONE BOARD (ORANGE)
153+02	RT	3-11	---	NO TRUCKS ON HAMMOND AVE	42 X 24	7.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE ABOVE SIGN NO. 3-10
153+44	LT	3-12	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---			
				TWO HOUR PARKING 7 AM - 7 PM (Right arrow)			---	---	---	---	---	---	1	1	
153+95	LT	3-13	J4-1	WEST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---		---	
154+94	LT	3-14	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---			
				TWO HOUR PARKING 7 AM - 7 PM (Left arrow)			---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE
			R7-S1R	NO PARKING HERE TO CORNER (Right arrow)	18 X 24	3.00	---	---	---	---	---	---			
			M4-8	DETOUR	24 X 12		2.00								
			M3-2	EAST	24 X 12		2.00								
			M4-8	DETOUR	24 X 12		2.00								
155+70	RT	3-15	M3-3	SOUTH	24 X 12	---	2.00	---	---	---	---	2	1	1	
			M50-2	2(USH Route Marker) 53(Interstate Route Marker)	48 X 24		8.00								ROUTE MARKERS ON ONE BOARD
			M50-2A	Right Arrows	48 X 21		7.00								ARROWS ON ONE BOARD (ORANGE)
155+96	RT	3-16	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
155+96	LT	3-17	M1-94H	Hammond Ave	108 X 18	13.50	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
155+95	LT	3-18	R4-SL	TRUCKS USE LEFT LANE	24 X 30	5	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
156+02	RT	4-1	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---			
				TWO HOUR PARKING 7 AM - 7 PM (Double arrow)			---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE ON HAMMOND AVE
156+05	RT	4-2	---	TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	---	---	---	---	---	---	---	---	1	1	
156+33	RT	4-4	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
156+14	LT	4-5	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
156+04	LT	4-6	R7-2D	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE
156+60	LT	4-7	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
156+78	LT	4-8	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE FACING SOUTH
156+90	LT	4-9	R7-2D	NO PARKING 3:00 AM TO 6:00 AM (Double arrow)	18 X 24	3.00	---	---	---	1	---	---	1	1	
156+79	RT	4-11	R3-8W	Left ONLY Ahead ONLY Right ONLY	54 X 30	11.25	---	---	---	---	2	---	1	2	
SUBTOTAL						210.54	83.92	0.00	0	6	6	3	40	23	

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
156+86	RT	4-12	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
157+00	RT	4-14	M1-94H	Hammond Ave	108 X 18	13.50	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
156+99	LT	4-15	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
157+39	LT	4-16	D9-2	Hospital Symbol	24 X 24	4.00	---	---	---	---	1	---	1	1	WHITE ON BLUE BACKGROUND
			M86-1	Left Arrow	21 X 21	3.06									
157+97	RT	4-17	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE ABOVE NO PARKING SIGN
157+44	RT	4-18	---	NO PARKING ANY TIME (Double arrow)	---	---	---	---	---	---	---	---	1	1	
157+97	RT	4-19	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
157+97	LT	4-20	---	NO PARKING ANY TIME (Double arrow)	---	---	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE
			R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	1	1	
159+38	LT	4-21	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	1	---	---	1	1	
159+05	RT	4-22	J4-1	EAST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---			
159+38	LT	4-23	---	TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	---	---	---	---	---	---	---	---	1	1	
			R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	1	---	---			
159+80	RT	4-24	---	School Crossing symbol	---	---	---	---	---	---	---	---	1	1	
159+91	LT	4-25	---	School Crossing symbol	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
159+95	LT	4-26	---	NO TRUCKS ON HAMMOND AVE	42 X 24	7.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
160+21	LT	4-27	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH CUMMING AVE
160+49	RT	4-28	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING SOUTH CUMMING AVE
			---	School Crossing symbol	---	---	---								
160+77	RT	4-29	---	NO NIGHT PARKING 3 AM - 6 AM	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
			---	TWO HOUR PARKING 7 AM - 7 PM	---	---	---								
161+65	RT	4-30	S1-1	School Zone symbol	36 X 36	---	---	6.75	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			S16-9P	AHEAD	30 X 18	---	---	3.75							
161+65	RT	4-31	R2-6P	FINES HIGHER	24 X 18	3.00	---	---	---	---	---	---	---	---	MOUNT SIGN BELOW SCHOOL SIGNS
161+67	LT	4-32	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
162+18	LT	4-33	S5-2	END SCHOOL ZONE	24 X 30	5.00	---	---	---	---	1	---	---	---	
162+53	RT	4-34	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
162+67	LT	4-35	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE
163+65	RT	5-2	---	School Crossing symbol w/down left arrow	---	---	---	---	---	---	---	---	1	---	REMOVE FROM SOLAR PANEL POLE
163+64	LT	5-3	J4-1	WEST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
163+75	LT	5-4	---	School Crossing symbol w/down left arrow	---	---	---	---	---	---	---	---	1	---	REMOVE FROM SOLAR PANEL POLE
163+86	LT	5-5	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	1	---	---	1	1	ATTACH TO SAME POST OPPOSITE R6-2L SIGN
			R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00									
164+20	RT	5-7	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING SOUTH BAXTER AVE
164+29	RT	5-8	S1-1	School Zone symbol	36 X 36	---	---	6.75	---	---	---	1	---	---	
			S16-7L	Left Down Arrow	30 X 18	---	---	3.75							
164+38	LT	5-9	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE ATTACH TO SAME POLE OPPOSITE R6-2L SIGN
			R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00									
164+40	LT	5-10	S1-1	School Zone symbol	36 X 36	---	---	6.75	---	---	---	1	---	---	
			S16-7L	Left Down Arrow	30 X 18			3.75							
165+11	RT	5-11	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
165+30	LT	5-13	R7-200	NO PARKING 3:00 AM TO 6:00 AM (Double arrow) TWO HOUR PARKING 7 AM - 7 PM (Double arrow)	20 X 18	2.50	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE BELOW SCHOOL SIGN
166+12	RT	5-14	S5-2	END SCHOOL ZONE	24 X 30	5.00	---	---	---	---	1	---	---	---	
166+16	LT	5-15	---	NO NIGHT PARKING 3 AM - 6 AM	---	---	---	---	---	---	---	---	1	1	
166+30	LT	5-16	S1-1	School Zone symbol	36 X 36	---	---	6.75	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			S16-9P	AHEAD	30 X 18			3.75							
166+30	LT	5-17	R2-6P	FINES HIGHER	24 X 18	3.00	---	---	---	---	---	---	---	---	MOUNT SIGN BELOW SIGN NO. 5-16
167+20	LT	5-18	M1-94H	Grand Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
167+22	RT	5-19	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO SIGNAL POLE
167+22	LT	5-20	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5	---	---	---	---	---	---	---	---	ATTACH TO SIGNAL POLE
167+36	LT	5-21	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
167+65	RT	5-22	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
167+84	LT	5-23	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
168+04	LT	5-24	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE FACING SOUTH
168+22	LT	5-25	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
SUBTOTAL						163.85	32.74	42.00	0	3	6	2	35	14	

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
168+21	RT	5-27	M1-94H	Grand Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
168+05	RT	5-29	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
168+21	RT	5-30	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING SOUTHEAST GRAND AVE
168+87	RT	5-31	---	NO NIGHT PARKING 3 AM - 6 AM	---	---	---	---							
			---	TWO HOUR PARKING 7 AM - 7 PM	---	---	---	---	---	---	---	---	1	1	
169+58	RT	5-32	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE ABOVE NO PARKING SIGN
169+59	RT	5-33	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
169+60	LT	5-34	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
169+98	MEDIAN	5-35	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	1	---	---	---	---	SIGN FACING SOUTH TOWARD ENTRANCE
170+04	RT	5-36	---	Pedestrian Crossing symbol	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
170+26	RT	5-37	R3-2	No Left Turn symbol	24 X 24	4.00	---	---	---	1	---	---	---	---	
				WEST 2 (USH Route Marker)									1		
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---		---	
171+24	LT	6-2	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH WEEKS AVE
171+82	MEDIAN	6-3	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
171+65	RT	6-4	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25							
			W16-7L	Left Down Arrow	24 X 12	---	---	2.00	---	---	---	1	---	---	
171+90	RT	6-5	---	NO NIGHT PARKING 3 AM - 6 AM	---	---	---	---							
			---	TWO HOUR PARKING 7 AM - 7 PM	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
171+96	LT	6-6	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
172+24	LT	6-7	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
172+24	RT	6-8	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
172+26	MEDIAN	6-9	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
172+84	LT	6-10	---	SPEED LIMIT 30	---										
			---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
173+14	MEDIAN	6-11	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
173+63	LT	6-12	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25							
			W16-7L	Left Down Arrow	24 X 12	---	---	2.00	---	---	---	---	---	---	ATTACH TO LIGHT POLE
173+70	MEDIAN	6-13	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
173+65	RT	6-14	---	ONE WAY (RIGHT Arrow)	---	---									
			---	ONE WAY (LEFT Arrow)	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
173+65	RT	6-15	---	Pedestrian Crossing symbol	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
173+89	RT	6-16	---	ONE WAY (RIGHT Arrow)	---	---									
			---	ONE WAY (LEFT Arrow)	---	---	---	---	---	---	---	---	1	1	
174+24	RT	6-17	---	ONE WAY (LEFT Arrow)	---	---	---	---	---	---	---	---	1	1	
174+44	RT	6-18	---	ONE WAY (RIGHT Arrow)	---	---	---	---	---	---	---	---	1	1	
174+32	RT	6-20	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	---	---	FACING SOUTH CLOUGH AVE
				EAST 2 (USH Route Marker)											
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---	---	---	
174+53	LT	6-22	R2-1	SPEED LIMIT 30	24 X 30	5.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00									
175+30	LT	6-23	---	Pedestrian Crossing symbol	---	---	---	---	---	---	---	---	1	1	
			---	LAKE SUPERIOR CIRCLE TOUR	---										
175+56	RT	6-24	---	EAST 2	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
			---	NO PARKING ANY TIME	---										
175+75	RT	6-25	R2-1	SPEED LIMIT 30	24 X 30	5.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00									
176+60	RT	6-26	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25							
			W16-7L	Left Down Arrow	24 X 12	---	---	2.00	---	---	---	1	---	---	
171+24	LT	6-27	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	---	---	FACING EAST
176+70	LT	6-28	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25							
			W16-7L	Left Down Arrow	24 X 12	---	---	2.00	---	---	---	1	---	---	
177+42	RT	6-29	---	SPEED LIMIT 30	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
177+83	LT	7-1	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	1	---	---	---	
177+97	LT	7-2	---	Pedestrian Crossing symbol	---										
			---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
178+52	RT	7-3	---	UWS PERMIT PARKING ONLY	---	---	---	---	---	---	---	---	1	1	SIGN BELONGS TO UW-SUPERIOR
178+57	LT	7-4	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH FISHER AVE
178+92	RT	7-6	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	---	---	FACING SOUTH FISHER AVE
179+17	RT	7-7	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
179+32	LT	7-8	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
180+10	RT	7-9	---	NO PARKING ANY TIME	---										
			---	9th-10th Grade Basketball Superior SHS	---	---	---	---	---	---	---	---	1	1	
180+60	RT	7-10	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
180+62	LT	7-11	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
181+67	LT	7-12	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
182+13	LT	7-13	M1-94H	Catlin Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
SUBTOTAL						135.58	5.18	33.00	0	2	11	3	24	13	

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
181+87	RT	7-14	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	1	---	---	---	
182+15	RT	7-15	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO SIGNAL POLE
182+13	LT	7-16	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO TRAFFIC SIGNAL POLE
182+27	LT	7-17	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
182+46	RT	7-19	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
182+75	LT	7-20	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	1	---	---	1	1	
182+60	LT	7-21	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
182+95	LT	7-23	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
182+93	RT	7-24	M1-94H	Catl'n Ave	78 X 18	9.75	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
182+79	RT	7-25	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO SIGNAL POLE
183+25	RT	7-27	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	1	---	---	---	---	
184+02	RT	7-28	---	STOP	---	---	---	---	---	---	---	---	1	1	SIGNS BELONG TO UW-SUPERIOR
			---	UNIVERSITY OF WISCONSIN PARKING LOT	---										
184+10	RT	7-29	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
184+11	LT	7-30	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
185+01	RT	8-1	---	STOP	---	---	---	---	---	---	---	---	1	1	
185+16	RT	8-2	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
185+30	RT	8-3	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
185+30	LT	8-4	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
185+60	LT	8-5	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH BIRCH AVE
185+57	LT	8-6	R7-51L	NO PARKING HERE TO CORNER (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
186+02	LT	8-7	R7-51R	NO PARKING HERE TO CORNER (Right arrow)	18 X 24	3.00	---	---	---	1	---	---	---	---	
186+08	MEDIAN	8-8	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
186+10	RT	8-9	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25	---	---	---	1	---	---	
			W16-7L	Left Down Arrow	24 X 12			2.00							
186+28	LT	8-10	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
186+88	RT	8-11	---	WI Indianhead Tech College (Right Arrow)	54 X 30	11.25	---	---	---	---	---	2	1	2	
187+20	RT	8-12	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
187+38	MEDIAN	8-13	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	---	1	---	---	---	SIGN FACING NORTH TOWARD ENTRANCE
187+46	MEDIAN	8-14	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
187+68	LT	8-15	J4-1	WEST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---		---	
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---		---	
188+52	LT	8-16	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			W16-7L	Left Down Arrow	24 X 12			2.00							
188+60	RT	8-17	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
188+58	LT	8-18	R3-1	No Right Turn symbol	24 X 24	4.00	---	---	---	1	---	---	---	---	
188+62	LT	8-19	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	1	---	---	---	---	SIGN FACING NORTH ON CYPRESS AVE
188+85	RT	8-21	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	1	---	---	1	1	SIGN FACING NORTH ON MORTORELLI DR
188+98	LT	8-22	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	1	---	---	1	1	SIGN FACING SOUTH ON CYPRESS AVE
189+05	LT	8-23	R3-2	No Left Turn symbol	24 X 24	4.00	---	---	---	1	---	---	---	---	
189+08	LT	8-24	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	1	---	---	---	
			R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	---		---	---	---	
189+20	LT	8-25	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
189+43	RT	8-26	R7-2D	NO PARKING 7:00 PM TO 6:00 AM (Double arrow)	18 X 24	3.00	---	---	---	1	---	---		---	SIGN FACING SOUTH ON MORTORELLI DR
189+43	RT	8-27	R7-51L	NO PARKING HERE TO CORNER (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE ON MORTORELLI DR
189+43	RT	8-28	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING SOUTH MORTORELLI DR
189+60	LT	8-29	R2-1	SPEED LIMIT 30	24 X 30	5.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00								---	ATTACH TO LIGHT POLE BELOW SPEED LIMIT SIGN
189+67	RT	8-30	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
190+20	LT	8-31	---	SPEED LIMIT 30	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
190+62	LT	8-32	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5	---	---	---	---	1	---	---	---	
191+03	LT	9-1	---	WI Indianhead Tech College (Left Arrow)	54 X 30	11.25	---	---	---	---	---	2	1	2	
			---	LAKE SUPERIOR CIRCLE TOUR											
191+19	RT	9-2	---	EAST 2 (USH Route Marker)	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
			---	NO PARKING ANY TIME											
191+43	LT	9-3	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH POPLAR AVE
191+44	LT	9-4	R7-51L	NO PARKING HERE TO CORNER (Left arrow)	18 X 24	3.00	---	---	---	1	---	---	---	---	SIGN FACING NORTH ON POPLAR AVE
191+91	LT	9-5	R7-51R	NO PARKING HERE TO CORNER (Right arrow)	18 X 24	3.00	---	---	---	1	---	---	---	---	SIGN FACING SOUTH ON POPLAR AVE
192+20	LT	9-6	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
SUBTOTAL						195.54	25.28	16.50	0	11	9	5	25	13	

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
			J4-1	EAST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	---	---	
192+20	RT	9-7	M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	
193+18	RT	9-8	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
193+49	RT	9-9	W10-1	RR Track Symbol	36 X 36	---	---	7.07	---	---	---	---	1	---	ATTACH TO LIGHT POLE
194+78	RT	9-11	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE ABOVE NO PARKING SIGN
194+79	RT	9-12	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
194+79	LT	9-13	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
195+76	LT	9-14	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
196+74	LT	9-15	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
196+74	RT	9-16	R2-1	SPEED LIMIT 30	24 X 30	5.00							1		ATTACH TO LIGHT POLE
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00									
197+73	RT	10-1	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
197+77	RT	10-2	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
197+77	LT	10-3	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
198+09	LT	10-4	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH PINE AVE
198+44	LT	10-5	W14-1	DEAD END	30 X 30	---	---	6.25	---	---	1	---	1	1	
198+55	MEDIAN	10-6	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
198+49	RT	10-7	---	STOP	---	---	---	---	---	---	---	---	1	1	
198+58	RT	10-8	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25	---	---	---	1	---	---	
			W16-7L	Left Down Arrow	24 X 12			2.00							
198+74	MEDIAN	10-9	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
198+76	LT	10-10	R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
199+33	RT	10-11	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	---	---	SIGN FACING SOUTH ON ENTRANCE
199+75	LT	10-13	W10-1	RR Track Symbol	36 X 36	---	---	7.07	---	---	---	---	1	1	ATTACH TO LIGHT POLE
199+78	LT	10-14	---	LAKE SUPERIOR CIRCLE TOUR	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
			---	WEST 2 (USH Route Marker)	---										
200+42	RT	10-15	---	STOP	---	---	---	---	---	---	---	---	1	1	
200+91	RT	10-16	W3-3	Traffic Signals Ahead Symbol	36 X 36	---	---	9.00	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---	---							
200+91	LT	10-17	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
201+27	LT	10-18	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH ELM AVE
201+63	LT	10-19	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE FACING SOUTH
			R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00									ATTACH TO SAME POLE OPPOSITE R6-2L SIGN
201+62	LT	10-20	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	1	---	---	1	1	
201+68	RT	10-21	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING SOUTH ELM AVE
201+69	RT	10-22	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE FACING SOUTH
			R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00									ATTACH TO SAME POLE OPPOSITE R6-2R SIGN
201+93	RT	10-23	---	SLOW CHILDREN	---	---	---	---	---	---	---	---	1	1	
201+94	RT	10-24	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
202+12	RT	10-25	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
202+29	LT	10-26	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
203+06	LT	10-27	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	---	---	1	1	ATTACH TO LIGHT POLE FACING SOUTH
203+06	LT	10-28	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
203+15	RT	10-29	---	LAKE SUPERIOR CIRCLE TOUR EAST 2 (USH Route Marker)	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
203+55	LT	10-30	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	1	---	1	1	LOCATED AT ENTRANCE FACING SOUTH
203+62	RT	10-31	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	1	
204+20	RT	11-1	R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
204+20	LT	11-2	J4-1	WEST 2 (USH Route Marker)	24 X 36	6.00	---	---	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			M1-91	LAKE SUPERIOR CIRCLE TOUR	24 X 24	4.00	---	---	---	---	---	---	---	---	
204+52	LT	11-3	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	FACING NORTH CEDAR AVE
205+03	RT	11-4	R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---	---	---	1	---	---	---	INSTALL BEHIND CURB ON NORTH SIDE OF HAYES CT
205+20	RT	11-5	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			W16-7L	Left Down Arrow	24 X 12			2.00							
205+21	MEDIAN	11-6	R4-7	Keep Right Symbol	24 X 30	5.00	---	---	---	---	1	---	---	---	
205+41	LT	11-7	W11-2	Pedestrian Crossing symbol	30 X 30	---	---	6.25	---	---	---	---	---	---	ATTACH TO LIGHT POLE
			W16-7L	Left Down Arrow	24 X 12			2.00							
206+70	LT	11-8	R2-1	SPEED LIMIT 30	24 X 30	5.00	---	---	---	---	---	---	1	---	ATTACH TO LIGHT POLE
			R7-1D	NO PARKING ANY TIME (Double arrow)	18 X 24	3.00									
206+87	RT	11-10	D1-55R	National Guard Armory (Right arrow)	60 X 21	8.75	---	---	---	---	---	2	1	2	
207+19	RT	11-11	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	1	---	REMOVE FROM LIGHT POLE
207+73	RT	11-12	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
			R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---						---		
SUBTOTAL						171.15	7.46	54.14	0	1	11	3	28	20	

3

PERMANENT SIGNING ITEMS

USH 2 APPROX. STATION	LOCATION	SIGN NO.	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.092 SIGN POST BLACK 8-FOOT EACH	SPV.0060.093 SIGN POST BLACK 9.5-FOOT EACH	SPV.0060.094 SIGN POST BLACK 11-FOOT EACH	SPV.0060.095 SIGN POST BLACK 12-FOOT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
207+90	RT	11-13	---	Pedestrian Crossing symbol	---	---	---	---	---	---	---	---	1	1	
207+77	RT	11-14	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	1	---	1	1	LOCATED ON HAYES CT FACING EAST
207+80	RT	11-15	R1-1	STOP	30 X 30	5.18	---	---	---	---	1	---	1	1	LOCATED ON HAYES CT
208+12	RT	11-16	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
207+95	RT	11-17	R5-2	No Trucks symbol	24 X 24	4.00	---	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
207+82	LT	11-18	M1-94H	Hill Ave	60 X 18	7.50	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
207+78	LT	11-19	R4-5L	TRUCKS USE LEFT LANE	24 X 30	5	---	---	---	---	---	---	---	---	ATTACH TO SIGNAL POLE
208+25	LT	11-20	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
208+48	LT	11-21	M1-94H	Belknap St	90 X 18	11.25	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
208+65	LT	11-22	---	DEAD END	---	---	---	---	---	---	---	---	1	---	REMOVE UPPER SIGN FROM LIGHT POLE
208+72	LT	11-23	W14-1	DEAD END	30 X 30	---	---	6.25	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
208+20	RT	11-24	J3-2	WEST 2 Left Arrow EAST 2 Right Arrow (USH Route Marker)	48 X 57	19.00	---	---	---	---	---	1	---	---	
208+30	RT	11-25	---	EAST 2 Right Arrow	---	---	---	---	---	---	---	---	1	1	
208+30	RT	11-26	---	WEST 2 Left Arrow	---	---	---	---	---	---	---	---	1	1	
208+55	RT	11-28	R1-1F	STOP (Folding)	30 X 30	---	5.18	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
208+74	RT	11-30	M1-94H	Hill Ave	60 X 18	7.50	---	---	---	---	---	---	1	---	OVERHEAD SIGN MOUNTED TO MONOTUBE ARM
208+84	LT	11-31	R1-1F	STOP (Folding)	36 X 36	---	7.46	---	---	---	---	---	1	---	ATTACH TO TRAFFIC SIGNAL POLE
			R7-1R	NO PARKING ANY TIME (Right arrow)	18 X 24	3.00	---						---		
209+47	LT	11-32	D1-55L	National Guard Armory (Left arrow)	60 X 21	8.75	---	---	---	---	---	2	1	2	
CUMMING AVE															
340+90	LT	12-1	R7-8R	RESERVED PARKING (Right Arrow)	12 X 18	1.50	---	---	1	---	---	---	---	---	
			R7-8V	VAN ACCESSIBLE	12 X 6	0.50									
340+90	LT	12-2	---	RESERVED PARKING ... THIS SPACE	---	---	---	---	---	---	---	---	1	1	
341+15	LT	12-3	---	RESERVED PARKING ... THIS SPACE	---	---	---	---	---	---	---	---	1	1	
341+22	LT	12-4	R7-8A	RESERVED PARKING ... THIS SPACE	12 X 18	1.50	---	---	1	---	---	---	---	---	
			R7-8V	VAN ACCESSIBLE	12 X 6	0.50									
341+45	LT	12-5	---	RESERVED PARKING ... THIS SPACE	---	---	---	---	---	---	---	---	1	1	
341+72	LT	12-6	R7-8L	RESERVED PARKING (Left Arrow)	12 X 18	1.50	---	---	1	---	---	---	---	---	
			R7-8V	VAN ACCESSIBLE	12 X 6	0.50									
342+00	RT	12-7	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	1	---	1	1	LOCATED ON ALLEY FACING WEST
342+11	RT	12-8	R7-8A	RESERVED PARKING ... THIS SPACE	12 X 18	1.50	---	---	1	---	---	---	1	1	
342+55	RT	12-9	R7-1L	NO PARKING ANY TIME (Left arrow)	18 X 24	3.00	---	---	---	1	---	---	---	---	
341+10	LT	12-10	R7-8A	RESERVED PARKING ... THIS SPACE	12 X 18	1.50	---	---	1	---	---	---	---	---	
			R7-8V	VAN ACCESSIBLE	12 X 6	0.50									
341+40	LT	12-11	R7-8A	RESERVED PARKING ... THIS SPACE	12 X 18	1.50	---	---	1	---	---	---	---	---	
			R7-8V	VAN ACCESSIBLE	12 X 6	0.50									
341+50	LT	12-12	R7-8A	RESERVED PARKING ... THIS SPACE	12 X 18	1.50	---	---	1	---	---	---	---	---	
			R7-8V	VAN ACCESSIBLE	12 X 6	0.50									
BAXTER AVE															
350+59	RT	13-3	S1-1	School Zone symbol	36 X 36	---	---	6.75							
			S16-9P	AHEAD	30 X 18	---	---	3.75	---	---	---	1	---	---	
			R5-1	DO NOT ENTER	30 X 30	6.25	---	---							ATTACH TO SAME POST OPPOSITE S1-1 SIGN
350+60	LT	13-4	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	---	---	1	---	---	---	
350+76	RT	13-5	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	1	---	---	---	SIGN FACING WEST ACROSS FROM SCHOOL LOT
351+65	LT	13-6	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	1	---	1	1	LOCATED ON ALLEY/ENTRANCE FACING SOUTH
			R6-2R	ONE WAY (RIGHT Arrow)	24 X 30	5.00	---	---							ATTACH TO SAME POST OPPOSITE R6-2L SIGN
351+82	RT	13-7	R6-2L	ONE WAY (LEFT Arrow)	24 X 30	5.00	---	---	---	---	1	---	1	1	SIGN FACING WEST ACROSS FROM SCHOOL LOT
351+92	RT	13-8	S1-1	School Zone symbol	36 X 36	---	---	6.75	---	---	---	1	1	1	
			S16-7L	Left Down Arrow	30 X 18	---	---	3.75					---	---	
351+99	LT	13-9	S1-1	School Zone symbol	36 X 36	---	---	6.75	---	---	---	1	---	---	
			S16-7R	Right Down Arrow	30 X 18			3.75							
				SUBTOTAL		143.93	17.82	37.75	7	1	7	6	24	15	
				PROJECT TOTALS		1276.72	227.52	192.39	7	24	60	25	218	111	

3

MOVING SIGNS TYPE II

SIGN NO.	USH 2 (APPROX.) STATION	SIGN MESSAGE	638.2102 MOVING SIGNS TYPE II EACH	COMMENT
CAT. 0010				
1-23	138+94 LT	SAHA ICE ARENA	1	MOVE TO LIGHT POLE
5-1	163+62 RT	CATHEDRAL SCHOOL (Left Arrow)	1	MOVE TO LIGHT POLE
5-12	165+30 LT	CATHEDRAL SCHOOL (Right Arrow)	1	MOVE TO LIGHT POLE
6-18	174+41 RT	PERMIT PARKING ONLY "Times / Days"	1	MOVE TO LIGHT POLE
9-10	193+49 RT	NO TRAIN HORN	1	MOVE TO LIGHT POLE BELOW W10-1
10-12	199+75 LT	NO TRAIN HORN	1	MOVE TO LIGHT POLE BELOW W10-1
11-9	206+87 RT	MARINER MALL... (RA) 1 MILE AHEAD	1	ON SAME POSTS AS SIGN NO. 11-10
11-33	209+47 LT	MARINER MALL... (LA) 1 MILE AHEAD	1	ON SAME POSTS AS SIGN NO. 11-32
13-1	348+02 RT (BAXTER AVE)	ONE WAY (RT ARROW) ONE WAY (LT ARROW)	1	MOVE BOTH WITH EXISTING POST
		PROJECT TOTAL	9	

FIELD OFFICE TYPE D

STATION	LOCATION	642.5401 FIELD OFFICE TYPE D EACH
PROJECT 8680-00-71 CAT 0010		0.550
PROJECT 8680-00-71 CAT 0010		
COMBINED PROJECT TOTAL		0.55

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE

LOCATION	NUMBE	643.0200.S TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE DAY	COMMENT
CAT. 0010			
YEAR 1	180	180	TIME ESTIMATE
YEAR 2	187	187	TIME ESTIMATE
PROJECT TOTAL		367	

TRAFFIC CONTROL DRUMS & WARNING LIGHTS TYPE C

STATION	- STATION	LOCATION		NUMBER OF DRUMS REQ'D	DAYS IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	COMMENT
CAT. 0010								
STAGE 1								
129+60	- 131+40	USH 2	RT	7	91	637	637	EB MERGING TAPER
131+40	- 132+35	USH 2	RT	4	91	364	---	LANE CLOSURE-25' SPACING
134+50	- 137+00	USH 2	RT	10	91	910	---	RT TURN LANE DELINEATION
134+50	- 137+25	USH 2	RT	11	91	1001	---	THRU LANE DELINEATION
	-	BANKS	AVE	8	14	112	---	BANKS AVE SB - 15' SPACING
138+00	- 140+75	USH 2	LT	6	91	546	---	LANE CLOSURE-50' SPACING
141+75	- 148+50	USH 2	LT	14	91	1274	---	LANE CLOSURE-50' SPACING
147+80	- 148+50	USH 2	RT	3	91	273	---	BUS. EXIT LANE DELINEATION
149+25	- 150+00	USH 2	LT	5	91	455	---	LANE DELINEATION (BOTH WAYS)
150+00	- 151+80	USH 2	LT	8	91	728	728	WB MERGING TAPER
174+85	- 176+70	USH 2	RT	7	91	637	637	EB MERGING TAPER
177+25	- 179+50	USH 2	RT	5	91	455	---	LANE CLOSURE-50' SPACING
179+55	- 181+20	USH 2	RT	4	91	364	364	EB SHIFTING TAPER
183+00	- 210+20	USH 2	LT	52	91	4732	---	LANE CLOSURE-50' SPACING
210+90	- 211+30	USH 2	RT	2	91	182	---	E 7TH ST RT TURN ONLY
210+50	- 211+25	USH 2	LT	3	91	273	---	WB LANE DELINEATION
212+45	- 213+10	USH 2	LT	3	91	273	273	WB MERGING TAPER
UNDISTRIBUTED				10	91	910	---	
			STAGE 1 TOTALS			14126	2639	
STAGE 2								
128+60	- 130+40	USH 2	RT	7	70	490	490	EB MERGING TAPER
130+40	- 132+30	USH 2	RT	8	70	560	---	LANE CLOSURE-25' SPACING
134+90	- 137+05	USH 2	RT	9	70	630	---	THRU LANE DELINEATION
135+00	- 137+00	USH 2	RT	8	70	560	---	LT TURN LANE DELINEATION
135+95	- 137+50	USH 2	LT	10	21	210	---	BANKS AVE CLOSURE - 15' SPACING
138+00	- 140+75	USH 2	RT	6	70	420	---	WB LANE DELINEATION
141+75	- 145+00	USH 2	RT	7	70	490	---	WB LANE DELINEATION
146+60	- 148+50	USH 2	LT	10	70	700	---	WB SHIFTING TAPER
147+65	- 148+55	USH 2	RT	4	70	280	---	BUS. EXIT LANE DELINEATION
150+00	- 151+40	USH 2	RT	8	70	560	---	EB DOWNSTREAM TAPER
149+25	- 150+00	USH 2	LT	3	70	210	---	WB LANE DELINEATION
150+00	- 151+70	USH 2	LT	7	70	490	490	MAIN WB SHIFTING TAPER
151+70	- 152+30	USH 2	LT	3	70	210	---	WB LANE DELINEATION
153+00	- 153+75	USH 2	LT	3	70	210	---	WB LANE DELINEATION
153+85	- 155+50	USH 2	LT	7	70	490	490	WB MERGING TAPER
179+00	- 180+80	USH 2	RT	7	70	490	490	EB MERGING TAPER
180+85	- 181+80	USH 2	RT	4	70	280	---	EB LANE DELINEATION
183+00	- 184+25	USH 2	RT	5	70	350	350	WB DOWNSTREAM TAPER
184+40	- 210+20	USH 2	LT	51	70	3570	---	WB LANE DELINEATION
210+25	- 211+00	USH 2	LT	3	70	210	210	MAIN WB SHIFTING TAPER
211+00	- 212+20	USH 2	LT	4	70	280	---	WB LANE DELINEATION
212+25	- 213+00	USH 2	LT	3	70	210	210	MAIN WB SHIFTING TAPER
213+00	- 214+10	USH 2	RT	3	70	210	---	LANE CLOSURE-50' SPACING
214+30	- 216+25	USH 2	LT	8	70	560	560	WB MERGING TAPER
UNDISTRIBUTED				10	70	700	---	
			STAGE 2 TOTALS			13370	3290	

CONT. TRAFFIC CONTROL DRUMS & WARNING LIGHTS TYPE C

STATION	- STATION	LOCATION		NUMBER OF DRUMS REQ'D	DAYS IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	COMMENT
STAGE 3								
128+60	- 130+40	USH 2	RT	7	19	133	133	EB MERGING TAPER
130+40	- 132+30	USH 2	RT	8	19	152	---	LANE CLOSURE-25' SPACING
134+80	- 137+00	USH 2	RT	9	19	171	---	RT TURN LANE DELINEATION
135+00	- 137+00	USH 2	RT	8	19	152	---	LT TURN LANE DELINEATION
138+00	- 139+75	USH 2	RT	4	19	76	---	EB LANE DELINEATION
138+00	- 138+50	USH 2	LT	4	19	76	---	LEFT TURN LANE DELINEATION
138+50	- 140+75	USH 2	LT	5	19	95	---	WB LANE DELINEATION
139+75	- 140+70	USH 2	RT	8	19	152	---	LEFT TURN LANE DELINEATION
142+00	- 143+25	USH 2	RT	3	19	57	---	EB LANE DELINEATION
143+50	- 144+75	USH 2	LT	3	19	57	---	WB LANE DELINEATION
145+75	- 147+75	USH 2	RT	8	19	152	---	EB LANE DELINEATION
145+80	- 146+30	USH 2	LT	4	19	76	---	LEFT TURN LANE DELINEATION
146+30	- 147+00	USH 2	LT	3	19	57	---	WB LANE DELINEATION
147+00	- 148+70	USH 2	LT	7	19	133	133	WB MERGING TAPER
182+65	- 184+20	USH 2	RT	6	19	114	114	EB MERGING TAPER
183+00	- 184+20	USH 2	LT	5	19	95	---	WB DOWNSTREAM TAPER
184+20	- 193+50	USH 2	LT	19	19	361	---	WB LANE DELINEATION
184+30	- 193+60	USH 2	RT	19	19	361	---	EB LANE DELINEATION
194+50	- 210+50	USH 2	LT	28	19	532	---	WB LANE DELINEATION
194+40	- 210+40	USH 2	RT	31	19	589	---	EB LANE DELINEATION
210+80	- 211+70	USH 2	RT	4	19	76	---	EB DOWNSTREAM TAPER
210+80	- 211+70	USH 2	LT	4	19	76	76	WB MERGING TAPER
	-	TOWER	AVE	6	19	114	114	NB STH 35 MERGING TAPER
	-	TOWER	AVE	8	19	152	---	NB STH 35 LANE CLOSURE
	-	TOWER	AVE	6	19	114	114	SB STH 35 MERGING TAPER
	-	TOWER	AVE	8	19	152	---	SB STH 35 LANE CLOSURE
UNDISTRIBUTED				30	19	570	---	
			STAGE 3 TOTALS			4845	684	
STAGE 4								
153+00	- 154+75	USH 2	RT	7	91	637	637	EB MERGING TAPER
154+75	- 156+00	USH 2	RT	3	91	273	---	EB LANE CLOSURE
157+00	- 160+00	USH 2	RT	12	91	1092	---	EB LANE & SHIFT TAPER @ 25'
161+10	- 186+25	USH 2	LT	47	91	4277	---	EB LANE DELINEATION
189+50	- 190+40	USH 2	LT	4	91	364	364	EB DOWNSTREAM TAPER
189+60	- 191+50	USH 2	LT	8	91	728	728	WB MERGING TAPER
UNDISTRIBUTED				15	91	1365	---	
			STAGE 4 TOTALS			8736	1729	
STAGE 5								
129+60	- 131+40	USH 2	RT	7	62	434	434	EB MERGING TAPER
131+40	- 132+35	USH 2	RT	4	62	248	---	LANE CLOSURE-25' SPACING
134+60	- 137+00	USH 2	RT	10	62	620	---	RT TURN LANE DELINEATION
134+70	- 137+10	USH 2	RT	10	62	620	---	LANE CLOSURE-25' SPACING
138+00	- 140+90	USH 2	RT	12	62	744	---	LANE CLOSURE-25' SPACING
141+85	- 144+75	USH 2	RT	12	62	744	---	EB LANE & SHIFT TAPER @ 25'
145+70	- 161+50	USH 2	LT	28	62	1736	---	EB LANE DELINEATION
161+50	- 166+50	USH 2	RT	19	62	1178	---	EB SHIFT TAPERS/LANE @ 25'
161+50	- 167+20	USH 2	LT	23	62	1426	---	WB SHIFT TAPERS/LANE @ 25'
168+25	- 185+50	USH 2	RT	35	62	2170	---	WB LANE DELINEATION
187+00	- 188+50	USH 2	RT	6	62	372	372	MAIN WB SHIFTING TAPER
189+20	- 191+50	USH 2	LT	5	62	310	---	WB LANE CLOSURE
192+20	- 194+00	USH 2	LT	7	62	434	434	WB MERGING TAPER
UNDISTRIBUTED				15	62	930	---	
			STAGE 5 TOTALS			11966	1240	

CONT. TRAFFIC CONTROL DRUMS & WARNING LIGHTS TYPE C

STATION	- STATION	LOCATION		NUMBER OF DRUMS REQ'D	DAYS IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	COMMENT
STAGE 6								
141+75	- 142+35	USH 2	RT	2	22	44	---	EB LANE DELINEATION
142+35	- 143+80	USH 2	RT	6	22	132	132	EB MERGING TAPER
143+80	- 144+75	USH 2	RT	4	22	88	---	LANE DELINEATION (BOTH WAYS)
142+30	- 144+00	USH 2	RT	7	22	154	154	WB DOWNSTREAM TAPER
145+70	- 169+00	USH 2	RT	45	22	990	---	WB LANE DELINEATION
169+00	- 171+10	USH 2	LT	8	22	176	176	MAIN WB SHIFTING TAPER
173+00	- 173+75	USH 2	LT	2	22	44	---	WB LANE CLOSURE
174+00	- 175+90	USH 2	RT	8	22	176	176	WB MERGING TAPER
UNDISTRIBUTED				10	22	220	---	
		STAGE 6 TOTALS				2024	638	
STAGE 7								
142+60	- 143+75	USH 2	RT	5	12	60	60	EB MERGING TAPER
146+00	- 156+00	USH 2	RT	20	12	240	---	EB LANE DELINEATION
146+50	- 156+00	USH 2	LT	19	12	228	---	WB LANE DELINEATION
157+00	- 167+00	USH 2	RT	19	12	228	---	EB LANE DELINEATION
156+90	- 167+25	USH 2	LT	20	12	240	---	WB LANE DELINEATION
168+30	- 181+70	USH 2	RT	27	12	324	---	EB LANE DELINEATION
168+20	- 182+10	USH 2	LT	28	12	336	---	WB LANE DELINEATION
183+00	- 184+50	USH 2	RT	4	12	48	---	EB LANE DELINEATION
183+00	- 185+25	USH 2	LT	5	12	60	---	WB LANE DELINEATION
184+70	- 185+40	USH 2	RT	3	12	36	---	EB DOWNSTREAM TAPER
186+50	- 188+25	USH 2	LT	7	12	84	84	WB MERGING TAPER
UNDISTRIBUTED				30	12	360	---	
		STAGE 7 TOTALS				2244	144	
		PROJECT TOTALS				57311	10364	

TRAFFIC CONTROL BARRICADES TYPE II

STAGE	LOCATION		TYPE II REQ'D	NUMBER OF DAYS IN SERVICE	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAY
CAT. 0010					
STAGE 1					
---	BELKNAP ST	RT	10	77	770
---	BELKNAP ST	LT	8	77	616
	STAGE 1 TOTAL				1386
STAGE 2					
---	BELKNAP ST	LT	10	56	560
---	BELKNAP ST	RT	8	56	448
	STAGE 2 TOTAL				1008
STAGE 3					
---	BELKNAP ST	LT	6	14	84
---	BELKNAP ST	RT	6	14	84
	STAGE 3 TOTAL				168
STAGE 4					
---	BELKNAP ST	LT	6	77	462
---	BELKNAP ST	RT	8	77	616
	STAGE 4 TOTAL				1078
STAGE 5					
---	BELKNAP ST	RT	10	48	480
---	BELKNAP ST	LT	10	48	480
	STAGE 5 TOTAL				960
STAGE 6					
---	BELKNAP ST	LT	8	16	128
---	BELKNAP ST	RT	6	16	96
	STAGE 6 TOTAL				224
STAGE 7					
---	BELKNAP ST	LT	4	7	28
---	BELKNAP ST	RT	4	7	28
	STAGE 7 TOTAL				56
	PROJECT TOTAL				4880

TRAFFIC CONTROL BARRICADES TYPE III & WARNING LIGHTS TYPE A

STATION	LOCATION		NUMBER OF BARRICADES REQ'D	DAYS IN SERVICE	643.0420 TC BARRICADES TYPE III DAY	643.0705 TC WARNING LIGHTS TYPE A DAY	COMMENT
CAT. 0010							
STAGE 1							
130+95	USH 2	RT	1	91	91	182	EB SIGN ON TYPE III
132+35	USH 2	RT	1	91	91	182	EB SIGN ON TYPE III
135+60	USH 2	RT	2	91	182	364	EB SIGN ON TYPE III
136+88	USH 2	RT	1	91	91	182	EB SIGN ON TYPE III
138+00	USH 2	RT	3	91	273	546	EB LANE CLOSURES
140+90	USH 2	RT	3	91	273	546	EB LANE CLOSURES
141+75	USH 2	RT	3	91	273	546	EB LANE CLOSURES
144+80	USH 2	RT	3	91	273	546	EB LANE CLOSURES
145+22	OGDEN	AVE	7	21	147	294	OGDEN AVE TEMP. CLOSURES
145+65	USH 2	RT	3	91	273	546	EB LANE CLOSURES
147+94	USH 2	RT	3	91	273	546	EB LANE CLOSURES
149+27	USH 2	LT	1	91	91	182	EB SIGN ON TYPE III
151+15	USH 2	LT	1	91	91	182	WB SIGN ON TYPE III
176+85	USH 2	RT	1	91	91	182	EB LANE CLOSURE
179+45	USH 2	RT	2	91	182	364	EB ROAD CLOSED
181+12	USH 2	RT	3	91	273	546	EB ROAD CLOSED
182+20	USH 2	RT	3	91	273	546	EB ROAD CLOSED
182+96	USH 2	RT	3	91	273	546	EB ROAD CLOSED
185+82	BIRCH	AVE	3	91	273	546	MEDIAN CROSSING CLOSURE
188+80	USH 2	RT	3	91	273	546	EB ROAD CLOSED
189+48	USH 2	RT	3	91	273	546	EB ROAD CLOSED
191+36	USH 2	RT	3	91	273	546	EB ROAD CLOSED
191+80	USH 2	RT	3	91	273	546	EB ROAD CLOSED
194+75	USH 2	RT	3	91	273	546	EB ROAD CLOSED
195+20	USH 2	RT	3	91	273	546	EB ROAD CLOSED
198+28	PINE	AVE	3	91	273	546	MEDIAN CROSSING CLOSURE
201+48	ELM	AVE	4	91	364	728	MEDIAN CROSSING CLOSURE
	ELM	AVE	3	91	273	546	ELM AVE CLOSURE
	"A" HAYES	CT	2	91	182	364	WEST END CLOSURE
	CEDAR	AVE	4	91	364	728	CEDAR AVE CLOSURE
204+81	CEDAR	AVE	4	91	364	728	MEDIAN CROSSING CLOSURE
	"A" HAYES	CT	2	91	182	364	EAST END CLOSURE
	HILL	AVE	3	91	273	546	HILL AVE CLOSURE
208+38	HILL	AVE	4	91	364	728	MEDIAN CROSSING CLOSURE
210+30	USH 2	RT	3	91	273	546	EB ROAD CLOSED
212+50	USH 2	LT	1	91	91	182	WB SIGN ON TYPE III
	UNDISTRIBUTED		5	91	455	910	
	STAGE 1 TOTALS				8883	17766	
STAGE 2							
129+82	USH 2	RT	1	70	70	140	EB SIGN ON TYPE III
135+98	USH 2	RT	1	70	70	140	EB SIGN ON TYPE III
137+50	BANKS	AVE	9	21	189	378	BANKS AVE TEMP. CLOSURES
138+00	USH 2	LT	3	70	210	420	WB ROAD CLOSED
140+90	USH 2	LT	3	70	210	420	WB ROAD CLOSED
141+83	USH 2	LT	3	70	210	420	WB ROAD CLOSED
144+84	USH 2	LT	3	70	210	420	WB ROAD CLOSED
145+25	OGDEN	AVE	9	21	189	378	OGDEN AVE TEMP. CLOSURES
145+72	USH 2	LT	3	70	210	420	WB ROAD CLOSED
148+54	USH 2	LT/RT	3	70	210	420	WB ROAD CLOSED
149+25	USH 2	LT	2	70	140	280	WB ROAD CLOSED
149+40	USH 2	RT	1	70	70	140	WB SIGN ON TYPE III
150+42	USH 2	LT	1	70	70	140	WB SIGN ON TYPE III
152+28	USH 2	LT	1	70	70	140	WB LANE CLOSURE
153+00	USH 2	LT	1	70	70	140	WB LANE CLOSURE
154+85	USH 2	LT	1	70	70	140	WB SIGN ON TYPE III
180+10	USH 2	RT	1	70	70	140	EB SIGN ON TYPE III
182+88	USH 2	RT	1	70	70	140	EB LANE CLOSURE
184+55	USH 2	LT	3	70	210	420	WB ROAD CLOSED
185+78	BIRCH	AVE	4	70	280	560	MEDIAN CROSSING CLOSURE
	BIRCH	AVE	3	70	210	420	BIRCH AVE CLOSURE
	BIRCH	AVE	2	70	140	280	BIRCH AVE ALLEY CLOSURE
	CYPRESS	AVE	3	70	210	420	CYPRESS AVE CLOSURE
	CYPRESS	AVE	4	70	280	560	CYPRESS AVE ALLEY CLOSURES
188+88	CYPRESS	AVE	5	70	350	700	MEDIAN CROSSING CLOSURE
SUBTOTAL STAGE 2					4088	8176	

CONT. TRAFFIC CONTROL BARRICADES TYPE III & WARNING LIGHTS TYPE A

STATION	LOCATION		NUMBER OF BARRICADES REQ'D	DAYS IN SERVICE	643.0420 TC BARRICADES TYPE III DAY	643.0705 TC WARNING LIGHTS TYPE A DAY	COMMENT
191+65	POPLAR	AVE	4	70	280	560	MEDIAN CROSSING CLOSURE
	POPLAR	AVE	3	70	210	420	POPLAR AVE CLOSURE
	POPLAR	AVE	2	70	140	280	POPLAR AVE ALLEY CLOSURE
	PINE	AVE	3	70	210	420	PINE AVE CLOSURE
198+33	PINE	AVE	4	70	280	560	MEDIAN CROSSING CLOSURE
199+95	USH 2	LT	2	70	140	280	ENTRANCE CLOSURE
201+48	ELM	AVE	4	70	280	560	MEDIAN CROSSING CLOSURE
	ELM	AVE	3	70	210	420	ELM AVE CLOSURE
	ELM	AVE	4	70	280	560	ELM AVE ALLEY CLOSURES
203+35	USH 2	LT	3	70	210	420	ENTRANCE CLOSURE
	CEDAR	AVE	3	70	210	420	CEDAR AVE CLOSURE
	CEDAR	AVE	2	70	140	280	CEDAR AVE ALLEY CLOSURE
204+77	CEDAR	AVE	3	70	210	420	MEDIAN CROSSING CLOSURE
206+45	USH 2	LT	2	70	140	280	ENTRANCE CLOSURE
208+34	HILL	AVE	4	70	280	560	MEDIAN CROSSING CLOSURE
	HILL	AVE	3	70	210	420	HILL AVE CLOSURE
	HILL	AVE	2	70	140	280	HILL AVE ALLEY CLOSURE
210+23	USH 2	LT	3	70	210	420	WB ROAD CLOSED
212+15	USH 2	LT	2	70	140	280	WB SIGN ON TYPE III
214+25	USH 2	LT	1	70	70	140	WB SIGN ON TYPE III
	UNDISTRIBUTED		5	70	350	700	
	STAGE 2 TOTALS				8428	16856	
STAGE 3							
129+82	USH 2	RT	1	19	19	38	EB SIGN ON TYPE III
138+05	USH 2	RT	2	19	38	76	EB LANE CLOSURE
140+70	USH 2	LT	2	19	38	76	WB LANE CLOSURE
142+00	USH 2	RT	1	19	19	38	EB LANE CLOSURE
	TOWER	AVE	2	19	38	76	NB LANE CLOSURE
	TOWER	AVE	2	19	38	76	SB LANE CLOSURE
144+77	USH 2	LT	1	19	19	38	WB LANE CLOSURE
145+78	USH 2	RT	2	19	38	76	EB LANE CLOSURES
148+44	USH 2	CL	1	19	19	38	WB LANE CLOSURE
183+23	USH 2	CL	1	19	19	38	EB SIGN ON TYPE III
184+23	USH 2	LT/RT	2	19	38	76	LANE CLOSURE (BOTH WAYS)
185+78	BIRCH	AVE	3	19	57	114	MEDIAN CROSSING CLOSURE
188+75	CYPRESS	AVE	3	19	57	114	MEDIAN CROSSING CLOSURE
189+10	)RTOR ELLI	DR	4	19	76	152	MEDIAN CROSSING CLOSURE
191+68	POPLAR	AVE	4	19	76	152	MEDIAN CROSSING CLOSURE
193+68	USH 2	LT	1	19	19	38	WB LANE CLOSURE
194+13	USH 2	RT	1	19	19	38	EB LANE CLOSURE
198+25	PINE	AVE	3	19	57	114	MEDIAN CROSSING CLOSURE
201+48	ELM	AVE	4	19	76	152	MEDIAN CROSSING CLOSURE
201+48	ELM	AVE	4	19	76	152	MEDIAN CROSSING CLOSURE
204+77	CEDAR	AVE	4	19	76	152	MEDIAN CROSSING CLOSURE
208+34	HILL	AVE	4	19	76	152	MEDIAN CROSSING CLOSURE
208+37	HILL	AVE	4	19	76	152	MEDIAN CROSSING CLOSURE
210+40	USH 2	LT/RT	2	19	38	76	LANE CLOSURE (BOTH WAYS)
211+76	USH 2	CL	1	19	19	38	WB SIGN ON TYPE III
	TOWER	AVE	5	19	95	190	LANE CLOSURES
	UNDISTRIBUTED		5	19	95	190	
	STAGE 3 TOTALS				1311	2622	
STAGE 4							
153+84	USH 2	RT	1	91	91	182	EB SIGN ON TYPE III
157+02	USH 2	RT	2	91	182	364	EB LANE CLOSURE
159+90	USH 2	RT	2	91	182	364	EB ROAD CLOSED
161+08	USH 2	RT	3	91	273	546	EB ROAD CLOSED
163+98	BAXTER	AVE	4	91	364	728	MEDIAN CROSSING CLOSURE
	BAXTER	AVE	2	91	182	364	BAXTER AVE CLOSURE
	BAXTER	AVE	4	91	364	728	BAXTER AVE ALLEY CLOSURES
	LAMBORN	AVE	3	91	273	546	LAMBORN AVE CLOSURE
	LAMBORN	AVE	2	91	182	364	LAMBORN AVE ALLEY CLOSURES
	GRAND	AVE	3	91	273	546	GRAND AVE CLOSURE
167+70	AND - LAMBORN	AVE	5	91	455	910	MEDIAN CROSSING CLOSURE
171+40	WEEKS	AVE	3	91	273	546	MEDIAN CROSSING CLOSURE
	STAGE 4 SUBTOTALS				3094	6188	

CONT. TRAFFIC CONTROL BARRICADES TYPE III & WARNING LIGHTS TYPE A

STATION	LOCATION		NUMBER OF BARRICADES REQ'D	DAYS IN SERVICE	643.0420 TC BARRICADES TYPE III DAY	643.0705 TC WARNING LIGHTS TYPE A DAY	COMMENT
174+04	CLOUGH	AVE	3	91	273	546	MEDIAN CROSSING CLOSURE
	CLOUGH	AVE	2	91	182	364	CLOUGH AVE ALLEY CLOSURE
	CLOUGH	AVE	2	91	182	364	CLOUGH AVE CLOSURE
178+79	FISHER AVE S.		3	91	273	546	MEDIAN CROSSING CLOSURE
	FISHER AVE S.		3	91	273	546	NEW ENTRANCE CLOSURE
	CATLIN	AVE	3	91	273	546	CATLIN AVE CLOSURE
	CATLIN	AVE	2	91	182	364	CATLIN AVE ALLEY CLOSURE
182+52	CATLIN	AVE	5	91	455	910	MEDIAN CROSSING CLOSURE
184+70	USH 2	RT	3	91	273	546	EB LANE CLOSURES
190+56	USH 2	LT	1	91	91	182	WB SIGN ON TYPE III
	UNDISTRIBUTED		5	91	455	910	
	STAGE 4 TOTALS				6006	12012	
STAGE 5							
130+90	USH 2	RT	1	91	91	182	EB SIGN ON TYPE III
132+35	USH 2	RT	1	62	62	124	EB SIGN ON TYPE III
138+00	USH 2	RT	1	62	62	124	EB LANE CLOSURE
140+80	USH 2	RT	1	62	62	124	EB LANE CLOSURE
141+92	USH 2	RT	1	62	62	124	EB LANE CLOSURE
144+76	USH 2	RT	2	62	124	248	EB LANE CLOSURES
145+75	USH 2	RT	3	62	186	372	EB ROAD CLOSED
148+90	JOHN	AVE	4	62	248	496	MEDIAN CROSSING CLOSURE
	JOHN	AVE	3	62	186	372	JOHN AVE CLOSURE
	JOHN	AVE	2	62	124	248	JOHN AVE ALLEY CLOSURE
	HUGHITT	AVE	3	62	186	372	HUGHITT AVE CLOSURE
	HUGHITT	AVE	2	62	124	248	HUGHITT AVE ALLEY CLOSURE
152+57	HUGHITT	AVE	4	62	248	496	MEDIAN CROSSING CLOSURE
156+48	HAMMOND	AVE	5	62	310	620	MEDIAN CROSSING CLOSURE
	HAMMOND	AVE	4	62	248	496	HAMMOND AVE ALLEY CLOSURES
	HAMMOND	AVE	5	62	310	620	HAMMOND AVE CLOSURE
	CUMMING	AVE	3	62	186	372	CUMMING AVE CLOSURE
	CUMMING	AVE	4	62	248	496	CUMMING AVE ALLEY CLOSURES
160+25	CUMMING	AVE	4	62	248	496	MEDIAN CROSSING CLOSURE
161+33	USH 2	RT	3	62	186	372	EB SIGN ON TYPE III
162+98	USH 2	LT	2	62	124	248	WB LANE CLOSURES
163+76	USH 2	RT	2	62	124	248	EB ROAD CLOSED
164+02	BAXTER	AVE	3	62	186	372	MEDIAN CROSSING CLOSURE
	BAXTER	AVE	3	62	186	372	BAXTER AVE CLOSURE
	BAXTER	AVE	2	62	124	248	BAXTER AVE ALLEY CLOSURE
164+39	USH 2	RT	2	62	124	248	EB LANE CLOSURES
167+25	USH 2	LT	3	62	186	372	WB ROAD CLOSED
168+20	USH 2	LT	3	62	186	372	WB ROAD CLOSED
171+52	WEEKS	AVE	4	62	248	496	MEDIAN CROSSING CLOSURE
	WEEKS	AVE	3	62	186	372	WEEKS AVE CLOSURE
178+75	FISHER	AVE	4	62	248	496	MEDIAN CROSSING CLOSURE
	FISHER	AVE	4	62	248	496	FISHER AVE CLOSURE
	FISHER	AVE	2	62	124	248	FISHER AVE ALLEY CLOSURE
	CATLIN	AVE	3	62	186	372	CATLIN AVE CLOSURE
	CATLIN	AVE	4	62	248	496	CATLIN AVE ALLEY CLOSURES
182+52	CATLIN	AVE	4	62	248	496	MEDIAN CROSSING CLOSURE
185+40	USH 2	LT	3	62	186	372	WB ROAD CLOSED
188+45	USH 2	LT	2	62	124	248	WB SIGN ON TYPE III
190+45	USH 2	LT	1	62	62	124	WB SIGN ON TYPE III
191+30	USH 2	LT	1	62	62	124	WB LANE CLOSURE
192+93	USH 2	LT	1	62	62	124	WB SIGN ON TYPE III
193+38	USH 2	LT	3	62	186	372	ENTRANCE CLOSURE
	UNDISTRIBUTED		5	62	310	620	
	STAGE 5 TOTALS				7469	14938	
STAGE 6							
142+27	USH 2	CL	1	22	22	44	EB SIGN ON TYPE III
144+80	USH 2	LT	3	22	66	132	WB ROAD CLOSED
145+70	USH 2	LT	4	22	88	176	WB ROAD CLOSED
148+95	JOHN	AVE	3	22	66	132	MEDIAN CROSSING CLOSURE
	JOHN	AVE	3	22	66	132	JOHN AVE CLOSURE
	JOHN	AVE	4	22	88	176	JOHN AVE ALLEY CLOSURES
	HUGHITT	AVE	3	22	66	132	HUGHITT AVE CLOSURE
	HUGHITT	AVE	5	22	110	220	HUGHITT AVE ALLEY CLOSURES
152+60	HUGHITT	AVE	4	22	88	176	MEDIAN CROSSING CLOSURE
	STAGE 6 SUBTOTALS				660	1320	

CONT. TRAFFIC CONTROL BARRICADES TYPE III & WARNING LIGHTS TYPE A

STATION	LOCATION		NUMBER OF BARRICADES REQ'D	DAYS IN SERVICE	643.0420 TC BARRICADES TYPE III DAY	643.0705 TC WARNING LIGHTS TYPE A DAY	COMMENT
156+48	HAMMOND	AVE	5	22	110	220	MEDIAN CROSSING CLOSURE
	HAMMOND	AVE	5	22	110	220	HAMMOND AVE CLOSURE
	CUMMING	AVE	3	22	66	132	CUMMING AVE CLOSURE
	CUMMING	AVE	2	22	44	88	CUMMING AVE ALLEY CLOSURE
160+34	CUMMING	AVE	4	22	88	176	MEDIAN CROSSING CLOSURE
163+58	USH 2	LT	3	22	66	132	WB ROAD CLOSED
	GRAND	AVE	4	22	88	176	GRAND AVE CLOSURE
167+70	GRAND	AVE	5	22	110	220	MEDIAN CROSSING CLOSURE
168+86	USH 2	LT	4	22	88	176	WB ROAD CLOSED
169+90	USH 2	LT	1	22	22	44	WB SIGN ON TYPE III
171+06	USH 2	LT	1	22	22	44	WB SIGN ON TYPE III
173+00	USH 2	LT	1	22	22	44	WB SIGN ON TYPE III
174+74	USH 2	LT	1	22	22	44	WB SIGN ON TYPE III
	UNDISTRIBUTED		5	22	110	220	
	STAGE 6 TOTALS				1628	3256	
STAGE 7							
143+25	USH 2	RT	1	12	12	24	EB SIGN ON TYPE III
146+08	USH 2	RT	2	12	24	48	EB LANE CLOSURE
148+88	JOHN	AVE	3	12	36	72	WB MEDIAN CROSSING
152+60	HUGHITT	AVE	3	12	36	72	WB MEDIAN CROSSING
152+65	HUGHITT	AVE	3	12	36	72	EB MEDIAN CROSSING
156+00	USH 2	LT	1	12	12	24	WB LANE CLOSURE
156+95	USH 2	RT	1	12	12	24	EB LANE CLOSURE
160+30	CUMMING	AVE	3	12	36	72	WB MEDIAN CROSSING
160+33	CUMMING	AVE	3	12	36	72	EB MEDIAN CROSSING
163+72	USH 2	LT	1	12	12	24	WB LANE CLOSURE
164+52	USH 2	RT	1	12	12	24	EB LANE CLOSURE
167+25	USH 2	LT	1	12	12	24	WB LANE CLOSURE
168+16	USH 2	RT	1	12	12	24	EB LANE CLOSURE
171+35	WEEKS	AVE	3	12	36	72	WB MEDIAN CROSSING
171+40	WEEKS	AVE	3	12	36	72	EB MEDIAN CROSSING
174+15	CLOUGH	AVE	3	12	36	72	WB MEDIAN CROSSING
178+72	FISHER	AVE	3	12	36	72	EB MEDIAN CROSSING
178+80	FISHER	AVE	3	12	36	72	WB MEDIAN CROSSING
182+12	USH 2	LT	1	12	12	24	WB LANE CLOSURE
182+96	USH 2	RT	1	12	12	24	EB LANE CLOSURE
184+70	USH 2	LT/RT	2	12	24	48	LANE CLOSURE (BOTH WAYS)
185+29	USH 2	LT	1	12	12	24	WB LANE CLOSURE
186+10	USH 2	LT	1	12	12	24	WB LANE CLOSURE
188+20	USH 2	LT	1	12	12	24	WB SIGN ON TYPE III
	UNDISTRIBUTED		5	12	60	120	
	STAGE 7 TOTALS				612	1224	
	PROJECT TOTALS				34337	68674	

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER ITEMS

STATION	- STATION	LOCATION	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH
CAT. 0010				
STAGE 1				
138+00	- 140+88	NORTH LT	12	12
141+87	- 144+85	NORTH LT	12	12
145+65	- 148+47	NORTH LT	12	12
179+70	- 182+08	NORTH LT	10	10
182+95	- 185+56	NORTH LT	10	10
186+12	- 188+56	NORTH LT	10	10
189+35	- 191+27	NORTH LT	8	8
191+90	- 196+05	NORTH LT	17	17
196+55	- 197+95	NORTH LT	6	6
198+68	- 201+10	NORTH LT	10	10
201+80	- 204+45	NORTH LT	11	11
205+16	- 208+10	NORTH LT	12	12
208+85	- 210+15	NORTH LT	5	5
UNDISTRIBUTED			20	20
STAGE 1 TOTALS			155	155
STAGE 2				
138+00	- 140+85	SOUTH RT	12	12
141+88	- 144+85	SOUTH RT	12	12
145+65	- 147+55	SOUTH RT	9	9
182+91	- 188+88	SOUTH RT	24	24
189+44	- 196+02	SOUTH RT	26	26
196+58	- 201+15	SOUTH RT	18	18
201+75	- 207+85	SOUTH RT	25	25
208+55	- 210+45	SOUTH RT	8	8
211+00	- 212+00	SOUTH RT	4	4
UNDISTRIBUTED			21	21
STAGE 2 TOTALS			159	159
STAGE 4				
159+00	- 159+95	NORTH LT	4	4
160+68	- 163+70	NORTH LT	12	12
164+30	- 167+22	NORTH LT	12	12
168+22	- 171+10	NORTH LT	12	12
171+75	- 178+53	NORTH LT	27	27
179+05	- 182+20	NORTH LT	13	13
182+85	- 185+45	NORTH LT	11	11
186+10	- 188+50	NORTH LT	10	10
189+11	- 189+50	NORTH LT	2	2
UNDISTRIBUTED			15	15
STAGE 4 TOTALS			118	118
STAGE 5				
144+00	- 144+80	NORTH LT	3	3
145+65	- 148+55	NORTH LT	12	12
149+18	- 152+32	NORTH LT	13	13
152+91	- 156+04	NORTH LT	13	13
156+85	- 160+00	NORTH LT	13	13
160+58	- 163+78	NORTH LT	13	13
164+30	- 167+35	SOUTH RT	12	12
168+20	- 173+92	SOUTH RT	23	23
174+46	- 178+46	SOUTH RT	16	16
179+00	- 182+20	SOUTH RT	13	13
182+95	- 185+50	SOUTH RT	10	10
186+08	- 188+48	SOUTH RT	10	10
UNDISTRIBUTED			23	23
STAGE 5 TOTALS			174	174
STAGE 6				
143+80	- 144+80	SOUTH RT	4	4
145+70	- 148+70	SOUTH RT	12	12
149+20	- 152+30	SOUTH RT	12	12
152+95	- 156+00	SOUTH RT	12	12
157+00	- 160+05	SOUTH RT	12	12
160+65	- 163+70	SOUTH RT	12	12
164+38	- 167+38	SOUTH RT	12	12
168+20	- 170+96	SOUTH RT	11	11
UNDISTRIBUTED			13	13
STAGE 6 TOTALS			100	100
PROJECT TOTALS			706	706

TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	NUMBER OF DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
CAT. 0010							
STAGE 1							
---	BELKNAP ST	RT	BARRICADE (II)	6	77	462	SIDEWALK CLOSED
---	BELKNAP ST	RT	BARRICADE (II)	3	77	231	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	BELKNAP ST	LT	BARRICADE (II)	6	77	462	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS		TEMP. POSTS	7	91	637	ROAD WORK AHEAD (WEST END)
---	SIDE ROADS		TEMP. POSTS	11	91	1001	ROAD WORK AHEAD (EAST END)
---	SIDE ROADS	S.	TEMP. POSTS	3	91	273	ROAD WORK / CLOSED AHEAD
---	USH 2 EB	RT	LIGHT POLES	4	91	364	ADVANCE SIGNING
130+90	USH 2 EB	RT	BARRICADE	1	91	91	NIGHT ARROW (LEFT)
132+35	USH 2 EB	RT	BARRICADE	1	77	77	RIGHT LANE MUST TURN RIGHT
134+62	USH 2 EB	RT	TEMP. POST	1	77	77	BEGIN RIGHT TURN LANE
135+62	USH 2 EB	RT	BARRICADE	2	91	182	REVERSE CURVE LT & 20 MPH WARNING
135+93	USH 2 WB	LT	PERM. POST	1	91	91	END ROAD WORK
136+88	USH 2 EB	RT	BARRICADE	1	91	91	TWO-WAY TRAFFIC
138+00	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
138+00	USH 2 EB	CL	BARRICADE	1	91	91	NIGHT ARROW (LEFT)
140+90	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
141+02	TOWER AVE	SB	TEMP. POST	1	14	14	RIGHT LANE MUST TURN RIGHT
141+75	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
143+30	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
144+80	USH 2	RT	BARRICADE	1	63	63	ROAD CLOSED
145+20	OGDEN AVE		BARRICADES	2	28	56	ROAD CLOSED (FACING NORTH & SOUTH)
145+66	USH 2 EB	RT	BARRICADE	1	63	63	ROAD CLOSED
146+55	USH 2 EB	LT	TEMP. POST	2	91	182	REVERSE CURVE RT & 20 MPH WARNING
147+95	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
148+29	ENTRANCE	RT	TEMP. POST	1	91	91	NO LEFT TURN FACING BUSINESS EXIT
149+27	USH 2 EB	LT	BARRICADE	1	91	91	NIGHT ARROW (RIGHT)
149+64	USH 2 WB	LT	TEMP. POST	1	91	91	TWO-WAY TRAFFIC
150+75	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
151+14	USH 2 WB	LT	BARRICADE	1	91	91	NIGHT ARROW (RIGHT)
---	USH 2 WB	LT	TEMP. POSTS	4	91	364	ADVANCE SIGNING W/LT LANE CLOSURE
---	USH 2 EB	RT	TEMP. POSTS	4	91	364	ADVANCE SIGNING W/RT LANE CLOSURE
175+58	USH 2 EB	RT	TEMP. POST	2	91	182	REVERSE CURVE RT & 20 MPH WARNING
176+87	USH 2 EB	RT	BARRICADE	1	91	91	LANE CLOSED
179+45	USH 2 EB	RT	BARRICADE	1	91	91	NIGHT ARROW (LEFT)
179+45	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
180+28	USH 2 EB	LT	TEMP. POST	1	91	91	TWO-WAY TRAFFIC
181+07	EXIT		TEMP. POST	1	91	91	STOP (FACING DRIVE THRU EXIT)
181+12	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
182+20	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
182+94	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
185+82	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
188+80	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
189+40	USH 2 MED.		TEMP. POST	1	91	91	STOP FOR MORTORELLI DR., ADD FLAGS
189+48	USH 2 EB	RT	BARRICADE	1	91	91	NIGHT ARROW (LEFT)
189+48	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
191+37	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
191+80	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
194+75	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
195+18	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
198+28	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
200+85	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO ELM AVE.
201+35	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
201+48	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
201+50	ELM AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
202+07	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO ELM AVE.
202+50	HAYES CT		BARRICADE	1	91	91	ROAD CLOSED
204+28	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO CEDAR AVE.
204+68	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
204+81	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
204+97	CEDAR AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
205+36	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO CEDAR AVE.
207+67	HAYES CT		BARRICADE	1	91	91	ROAD CLOSED
207+82	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO HILL AVE.
208+01	HILL AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
208+32	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
SUBTOTAL STAGE 1CAT 0010						9331	

CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	NUMBER OF DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
CAT. 0010							
STAGE 1							
208+46	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
208+90	USH 2 EB	LT	TEMP. POST	2	91	182	REVERSE CURVE RT & 20 MPH WARNING
209+10	USH 2 WB	LT	PERM. POST	1	91	91	NO LEFT TURN TO HILL AVE.
210+14	USH 2 WB	LT	PERM. POST	1	91	91	TWO-WAY TRAFFIC
210+26	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
212+27	USH 2 WB	LT	TEMP. POST	1	91	91	BEGIN LEFT TURN LANE
212+42	USH 2 WB	LT	BARRICADE	1	91	91	NIGHT ARROW (RIGHT)
213+65	USH 2 EB	RT	PERM. POST	1	91	91	END ROAD WORK
---	USH 2 WB	LT	TEMP. POSTS	4	91	364	ADVANCE SIGNING W/LT LANE CLOSURE
UNDISTRIBUTED				5	91	455	
STAGE 1 TOTAL						10969	
STAGE 2							
---	BELKNAP ST	LT	BARRICADE	6	56	336	SIDEWALK CLOSED
---	BELKNAP ST	LT	BARRICADE (II)	3	56	168	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	BELKNAP ST	RT	BARRICADE (II)	6	56	336	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS		TEMP. POSTS	7	70	490	ROAD WORK AHEAD (WEST END)
---	SIDE ROADS		TEMP. POSTS	5	70	350	ROAD WORK AHEAD (EAST END)
---	SIDE ROADS		TEMP. POSTS	7	70	490	ROAD WORK / CLOSED AHEAD
---	USH 2 EB	RT	LIGHT POLES	4	70	280	ADVANCE SIGNING
129+82	USH 2 EB	RT	BARRICADE	1	70	70	NIGHT ARROW (RIGHT)
133+82	USH 2 EB	CL	TEMP. POST	1	70	70	LEFT LANE MUST TURN LEFT
135+14	USH 2 EB	RT	TEMP. POST	1	70	70	BEGIN LEFT TURN LANE
135+93	USH 2 WB	LT	PERM. POST	1	70	70	END ROAD WORK
137+40	BANKS AVE		BARRICADE	1	21	21	ROAD CLOSED (FACING NORTH)
137+65	USH 2 MED.		BARRICADE	1	21	21	ROAD CLOSED (FACING SOUTH)
138+00	USH 2 EB	LT	BARRICADE	1	70	70	ROAD CLOSED
138+05	USH 2 EB	RT	TEMP. POST	1	70	70	TWO-WAY TRAFFIC
140+90	USH 2 WB	RT	BARRICADE	2	70	140	REVERSE CURVE RT & 20 MPH WARNING
140+90	USH 2 WB	LT	BARRICADE	1	70	70	ROAD CLOSED
141+83	USH 2	LT	BARRICADE	1	70	70	ROAD CLOSED
143+50	USH 2 EB	RT	TEMP. POST	1	91	91	NO PARKING ANY TIME
144+80	USH 2 WB	LT	BARRICADE	1	49	49	ROAD CLOSED
145+18	OGDEN AVE		BARRICADE	1	21	21	ROAD CLOSED (FACING NORTH)
145+24	USH 2 MED.		BARRICADE	1	21	21	ROAD CLOSED (FACING SOUTH)
145+85	USH 2	LT	BARRICADE	1	49	49	ROAD CLOSED
146+65	USH 2 WB	RT	TEMP. POST	1	70	70	TWO-WAY TRAFFIC
148+29	ENTRANCE		TEMP. POST	1	70	70	NO LEFT TURN FACING BUSINESS EXIT
148+53	USH 2 WB	LT	BARRICADE	1	70	70	ROAD CLOSED
148+61	JOHN AVE		TEMP. POST	1	70	70	STOP FACING JOHN AVE., ADD FLAGS
149+25	USH 2	LT	BARRICADE	1	70	70	ROAD CLOSED
149+40	USH 2 WB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO JOHN AVE.
150+42	USH 2 WB	LT	BARRICADE	1	70	70	NIGHT ARROW (LEFT)
152+28	USH 2 WB	LT	BARRICADE	1	70	70	LANE CLOSED
152+35	HUGHITT AVE		TEMP. POST	1	70	70	STOP FACING HUGHITT AVE., ADD FLAGS
153+52	USH 2 WB	LT	TEMP. POST	1	70	70	REVERSE CURVE LEFT
154+86	USH 2 WB	LT	BARRICADE	1	70	70	NIGHT ARROW (LEFT)
---	USH 2 WB	LT	TEMP. POSTS	4	70	280	ADVANCE SIGNING W/RT LANE CLOSURE
---	USH 2 EB	RT	TEMP. POSTS	4	70	280	ADVANCE SIGNING W/LT LANE CLOSURE
180+11	USH 2 EB	RT	BARRICADE	1	70	70	NIGHT ARROW (RIGHT)
181+28	USH 2 EB	RT	TEMP. POST	1	70	70	BEGIN LEFT TURN LANE
182+90	USH 2 EB	RT	BARRICADE	1	70	70	LANE CLOSED
184+16	USH 2 EB	RT	BARRICADE	1	70	70	TWO-WAY TRAFFIC
184+55	USH 2	LT	BARRICADE	1	70	70	ROAD CLOSED
185+18	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO BIRCH AVE.
185+85	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
185+85	BIRCH AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
186+38	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO BIRCH AVE.
187+12	USH 2 WB	RT	TEMP. POST	2	70	140	REVERSE CURVE LT & 20 MPH WARNING
187+97	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO CYPRESS AVE.
188+74	CYPRESS AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
---	CYPRESS AVE		BARRICADES	2	70	140	ROAD CLOSED ON ALLEYS
188+88	USH 2 MED.		BARRICADE	1	70	70	DOUBLE NIGHT ARROW (FACING SOUTH)
189+04	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
189+38	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO CYPRESS AVE.
190+72	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO POPLAR AVE.
191+68	POPLAR AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
---	POPLAR AVE		BARRICADE	1	70	70	ROAD CLOSED ON ALLEY
191+70	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
SUBTOTAL STAGE 2 CAT 0010						6293	

CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	NUMBER OF DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
192+22	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO POPLAR AVE.
197+75	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO PINE AVE.
198+25	PINE AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
198+40	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
198+75	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO PINE AVE.
200+00	ENTRANCE	LT	BARRICADE	1	70	70	ROAD CLOSED
200+87	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO ELM AVE.
201+40	USH 2 MED.		BARRICADE	1	70	70	DOUBLE NIGHT ARROW (FACING SOUTH)
201+52	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
201+48	ELM AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
---	ELM AVE		BARRICADES	2	70	140	ROAD CLOSED ON ALLEYS
201+53	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
202+03	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO ELM AVE.
203+37	ENTRANCE	LT	BARRICADE	1	70	70	ROAD CLOSED
204+15	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO CEDAR AVE.
204+75	CEDAR AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
---	CEDAR AVE		BARRICADE	1	70	70	ROAD CLOSED ON ALLEY
204+78	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
205+26	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO CEDAR AVE.
206+45	ENTRANCE	LT	BARRICADE	1	70	70	ROAD CLOSED
207+66	USH 2 EB	RT	TEMP. POST	1	70	70	NO LEFT TURN TO HILL AVE.
208+28	USH 2 MED.		BARRICADE	1	70	70	DOUBLE NIGHT ARROW (FACING SOUTH)
208+42	USH 2 MED.		BARRICADE	1	70	70	ROAD CLOSED (FACING SOUTH)
208+78	HILL AVE		BARRICADE	1	70	70	ROAD CLOSED (FACING NORTH)
---	HILL AVE		BARRICADE	1	70	70	ROAD CLOSED ON ALLEY
208+86	USH 2 WB	RT	TEMP. POST	1	70	70	NO RIGHT TURN TO HILL AVE.
209+66	USH 2 WB	RT	TEMP. POST	1	70	70	TWO-WAY TRAFFIC
210+25	USH 2 WB	LT	BARRICADE	1	70	70	ROAD CLOSED
211+97	USH 2 WB	RT	TEMP. POST	1	70	70	BEGIN LEFT TURN LANE
212+15	USH 2 WB	LT	BARRICADE	1	70	70	ROAD CLOSED
213+70	USH 2 EB	RT	PERM. POST	1	70	70	END ROAD WORK
213+85	USH 2 WB	LT	BARRICADE	2	70	140	REVERSE CURVE LT & 20 MPH WARNING
215+55	USH 2 WB	LT	BARRICADE	1	70	70	NIGHT ARROW (LEFT)
---	USH 2 WB	LT	PERM. POSTS	4	70	280	ADVANCE SIGNING W/RT LANE CLOSURE
UNDISTRIBUTED				5	70	350	
STAGE 2 TOTAL						9373	
STAGE 3							
---	BELKNAP ST	LT	BARRICADE (II)	6	14	84	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	BELKNAP ST	RT	BARRICADE (II)	6	14	84	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS		TEMP. POSTS	11	19	209	ROAD WORK AHEAD
---	USH 2 EB	RT	LIGHT POLES	4	19	76	ADVANCE SIGNING W/LT LANE CLOSURE
129+82	USH 2 EB	RT	BARRICADE	1	19	19	NIGHT ARROW (RIGHT)
133+82	USH 2 EB	CL	TEMP. POST	1	19	19	LEFT LANE MUST TURN LEFT
135+14	USH 2 EB	RT	TEMP. POST	1	19	19	BEGIN LEFT TURN LANE
135+93	USH 2 WB	LT	PERM. POST	1	19	19	END ROAD WORK
138+05	USH 2 EB	RT	BARRICADE	1	19	19	LANE CLOSED
138+58	USH 2 WB	LT	TEMP. POST	1	19	19	BEGIN LEFT TURN LANE
139+62	USH 2 EB	RT	TEMP. POST	1	19	19	BEGIN LEFT TURN LANE
140+70	USH 2 WB	LT	BARRICADE	1	19	19	LANE CLOSED
142+00	USH 2 EB	RT	BARRICADE	1	19	19	LANE CLOSED
144+77	USH 2 WB	LT	BARRICADE	1	19	19	LANE CLOSED
145+77	USH 2 EB	RT	BARRICADE	1	19	19	LANE CLOSED
146+35	USH 2 WB	LT	TEMP. POST	1	19	19	BEGIN LEFT TURN LANE
148+44	USH 2 WB	CL	BARRICADE	1	19	19	NIGHT ARROW (RIGHT)
---	USH 2 WB	LT	TEMP. POSTS	3	19	57	ADVANCE SIGNING W/LT LANE CLOSURE
---	USH 2 EB	RT	TEMP. POSTS	3	19	57	ADVANCE SIGNING W/LT LANE CLOSURE
183+23	USH 2 EB	CL	BARRICADE	1	19	19	NIGHT ARROW (RIGHT)
184+22	USH 2 EB	RT	BARRICADE	1	19	19	LANE CLOSED
185+20	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO BIRCH AVE.
185+77	BIRCH AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
188+17	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO CYPRESS AVE.
188+74	CYPRESS AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
189+15	MORTORELLI	DR	BARRICADE	1	19	19	NO LEFT TURN (FACING SOUTH)
189+80	USH 2 WB	LT	TEMP. POST	1	19	19	NO LEFT TURN TO MORTORELLI DR.
191+17	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO POPLAR AVE.
191+61	POPLAR AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
193+65	USH 2 WB	LT	BARRICADE	1	19	19	LANE CLOSED
SUBTOTAL STAGE 3 CAT 0010						1023	

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CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
194+15	USH 2 EB	RT	BARRICADE	1	19	19	LANE CLOSED
197+76	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO PINE AVE.
198+24	PINE AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
200+67	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO ELM AVE.
201+43	ELM AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
201+54	ELM AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING SOUTH)
202+15	USH 2 WB	LT	TEMP. POST	1	19	19	NO LEFT TURN TO ELM AVE.
204+05	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO CEDAR AVE.
204+71	CEDAR AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
207+61	USH 2 EB	RT	TEMP. POST	1	19	19	NO LEFT TURN TO HILL AVE.
208+34	HILL AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING SOUTH)
208+44	HILL AVE		BARRICADE	1	19	19	NO LEFT TURN (FACING NORTH)
209+03	USH 2 WB	LT	TEMP. POST	1	19	19	NO LEFT TURN TO HILL AVE.
210+40	USH 2 WB	LT	BARRICADE	1	19	19	LANE CLOSED
211+76	USH 2 WB	CL	BARRICADE	1	19	19	NIGHT ARROW (RIGHT)
213+70	USH 2 EB	RT	PERM. POST	1	19	19	END ROAD WORK
---	USH 2 WB	LT	PERM. POSTS	3	19	57	ADVANCE SIGNING W/LT LANE CLOSURE
---	TOWER AVE	NB	TEMP. POSTS	3	19	57	ADVANCE SIGNING W/LT LANE CLOSURE
---	TOWER AVE	NB	BARRICADE	1	19	19	NO LEFT TURN TO N. 16TH ST.
---	TOWER AVE	NB	BARRICADE	1	19	19	LANE CLOSED
---	TOWER AVE	NB	TEMP. POST	1	19	19	END ROAD WORK
---	TOWER AVE	SB	TEMP. POSTS	3	19	57	ADVANCE SIGNING W/LT LANE CLOSURE
---	TOWER AVE	SB	BARRICADE	2	19	38	LANE CLOSED
---	TOWER AVE	SB	TEMP. POSTS	3	19	57	NO PARKING SIGNS
---	TOWER AVE	SB	BARRICADE	1	19	19	NO LEFT TURN TO N. 16TH ST.
---	TOWER AVE	SB	TEMP. POST	1	19	19	END ROAD WORK
UNDISTRIBUTED				3	19	57	
STAGE 3 TOTAL						1745	

CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
CAT. 0010							
STAGE 4							
---	BELKNAP ST	RT	BARRICADE (II)	6	77	462	SIDEWALK CLOSED
---	BELKNAP ST	LT	BARRICADE (II)	6	77	462	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS	N.	TEMP. POSTS	7	91	637	ROAD WORK AHEAD
---	SIDE ROADS	S.	TEMP. POSTS	5	91	455	ROAD WORK / CLOSED AHEAD
---	USH 2 EB	RT	TEMP. POSTS	4	91	364	ADVANCE SIGNING W/RT LANE CLOSURE
152+22	USH 2 WB	LT	TEMP. POST	1	91	91	END ROAD WORK
153+85	USH 2 EB	RT	BARRICADE	1	91	91	NIGHT ARROW (LEFT)
154+35	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
155+30	USH 2 EB	RT	TEMP. POST	1	91	91	REVERSE CURVE LEFT
157+00	USH 2 EB	RT	BARRICADE	1	91	91	LANE CLOSED
158+50	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
159+00	USH 2 EB	LT	TEMP. POST	1	91	91	BEGIN LEFT TURN LANE
159+90	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
160+68	CUMMING AVE	RT	BARRICADE	1	91	91	STOP (FACING SOUTH, ADD FLAGS)
161+08	USH 2 EB	CL	BARRICADE	1	91	91	NIGHT ARROW (LEFT)
161+08	USH 2 EB	RT	BARRICADE	1	91	91	ROAD CLOSED
161+90	USH 2 EB	RT	BARRICADE	1	91	91	TWO-WAY TRAFFIC
162+25	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
163+36	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO BAXTER AVE.
164+04	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
164+09	BAXTER AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
---	BAXTER AVE		BARRICADES	2	91	182	ROAD CLOSED ON ALLEYS
164+73	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO BAXTER AVE.
165+90	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
167+10	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO LAMBORN AVE.
167+16	USH 2 WB	LT	TEMP. POST	1	91	91	TWO-WAY TRAFFIC
167+57	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
167+70	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
167+73	LAMBORN AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
---	LAMBORN AVE		BARRICADE	1	91	91	ROAD CLOSED ON ALLEY
168+44	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO LAMBORN AVE.
168+63	USH 2 EB	LT	TEMP. POST	1	91	91	TWO-WAY TRAFFIC
169+09	GRAND AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
169+90	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
171+26	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
171+39	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
173+54	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO CLOUGH AVE.
174+10	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
174+17	CLOUGH AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
---	CLOUGH AVE		BARRICADE	1	91	91	ROAD CLOSED ON ALLEY
174+82	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO CLOUGH AVE.
175+72	USH 2 WB	LT	TEMP. POST	1	91	91	NO PARKING ANY TIME
178+17	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO FISHER AVE. S.
178+66	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
178+80	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
178+72	FISHER AVE (NEW)		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
179+33	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO FISHER AVE. S.
181+87	USH 2 EB	LT	TEMP. POST	1	91	91	NO RIGHT TURN TO CATLIN AVE.
182+39	USH 2 MED.		BARRICADE	1	91	91	ROAD CLOSED (FACING NORTH)
182+52	USH 2 MED.		BARRICADE	1	91	91	DOUBLE NIGHT ARROW (FACING NORTH)
182+50	CATLIN AVE		BARRICADE	1	91	91	ROAD CLOSED (FACING SOUTH)
---	CATLIN AVE		BARRICADE	1	91	91	ROAD CLOSED ON ALLEY
183+13	USH 2 WB	LT	TEMP. POST	1	91	91	NO LEFT TURN TO CATLIN AVE.
184+70	USH 2	RT	BARRICADE	1	91	91	ROAD CLOSED
185+97	USH 2 EB	RT	TEMP. POST	1	91	91	REVERSE CURVE RT
188+35	USH 2 WB	LT	TEMP. POST	1	91	91	TWO-WAY TRAFFIC
189+43	MORTORELLI	DR	TEMP. POST	1	91	91	NO LEFT TURN (FACING SOUTH)
190+38	ENTRANCE		TEMP. POST	1	91	91	NO LEFT TURN FACING BUSINESS EXIT
190+57	USH 2 WB	LT	BARRICADE	1	91	91	NIGHT ARROW (RIGHT)
192+96	USH 2 EB	RT	TEMP. POST	1	91	91	END ROAD WORK
---	USH 2 WB	LT	TEMP. POSTS	4	91	364	ADVANCE SIGNING W/LT LANE CLOSURE
UNDISTRIBUTED				5	91	455	
STAGE 4 TOTAL						8295	

CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
STAGE 5							
---	BELKNAP ST	RT	BARRICADE (II)	5	48	240	SIDEWALK CLOSED
---	BELKNAP ST	RT	BARRICADE (II)	4	48	192	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	BELKNAP ST	LT	BARRICADE (II)	5	48	240	SIDEWALK CLOSED
---	BELKNAP ST	LT	BARRICADE (II)	4	48	192	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS	N.	TEMP. POSTS	7	62	434	ROAD WORK AHEAD
---	SIDE ROADS	S.	TEMP. POSTS	4	62	248	ROAD WORK / CLOSED AHEAD
---	SIDE ROADS	S.	TEMP. POSTS	6	62	372	ROAD WORK AHEAD
---	SIDE ROADS	N.	TEMP. POSTS	3	62	186	ROAD WORK / CLOSED AHEAD
---	USH 2 EB	RT	LIGHT POLES	4	62	248	ADVANCE SIGNING W/RT LANE CLOSURE
130+90	USH 2 EB	RT	BARRICADE	1	62	62	NIGHT ARROW (LEFT)
132+35	USH 2 EB	RT	BARRICADE	1	62	62	RIGHT LANE MUST TURN RIGHT
134+77	USH 2 EB	RT	TEMP. POST	1	62	62	BEGIN RIGHT TURN LANE
135+93	USH 2 WB	LT	PERM. POST	1	62	62	END ROAD WORK
138+02	USH 2 EB	RT	BARRICADE	1	62	62	LANE CLOSED
141+92	USH 2 EB	RT	BARRICADE	1	62	62	LANE CLOSED
143+30	USH 2 WB	LT	TEMP. POST	1	62	62	NO PARKING ANY TIME
143+89	USH 2 EB	LT	TEMP. POST	1	62	62	BEGIN LEFT TURN LANE
144+09	USH 2 EB	RT	BARRICADE	1	62	62	TWO-WAY TRAFFIC
145+75	USH 2 EB	LT	BARRICADE	1	62	62	NIGHT ARROW (LEFT)
145+75	USH 2 EB	RT	BARRICADE	1	62	62	ROAD CLOSED
146+45	USH 2 WB	LT	TEMP. POST	1	62	62	NO PARKING ANY TIME
148+44	USH 2 EB	LT	TEMP. POST	1	62	62	NO RIGHT TURN TO JOHN AVE.
---	JOHN AVE		BARRICADE	1	62	62	ROAD CLOSED ON ALLEY
148+79	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
148+92	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING NORTH)
149+63	USH 2 WB	LT	TEMP. POST	1	62	62	NO LEFT TURN TO JOHN AVE.
150+75	USH 2 WB	LT	TEMP. POST	1	62	62	NO PARKING ANY TIME
152+18	USH 2 EB	LT	TEMP. POST	1	62	62	NO RIGHT TURN TO HUGHITT AVE.
152+50	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
152+64	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING NORTH)
152+62	HUGHITT AVE		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
---	HUGHITT AVE		BARRICADE	1	62	62	ROAD CLOSED ON ALLEY
153+20	USH 2 WB	LT	TEMP. POST	1	62	62	NO LEFT TURN TO HUGHITT AVE.
154+20	USH 2 WB	LT	TEMP. POST	1	62	62	NO PARKING ANY TIME
155+88	USH 2 EB	LT	TEMP. POST	1	62	62	NO RIGHT TURN TO HAMMOND AVE.
156+34	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
156+48	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING NORTH)
156+48	HAMMOND AVE		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
---	HAMMOND AVE		BARRICADES	2	62	124	ROAD CLOSED ON ALLEYS
157+17	USH 2 WB	LT	TEMP. POST	1	62	62	NO LEFT TURN TO HAMMOND AVE.
158+28	USH 2 WB	LT	TEMP. POST	1	62	62	NO PARKING ANY TIME
159+75	USH 2 EB	LT	TEMP. POST	1	62	62	NO RIGHT TURN TO CUMMING AVE.
160+18	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
160+32	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING NORTH)
160+33	CUMMING AVE		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
---	CUMMING AVE		BARRICADES	2	62	124	ROAD CLOSED ON ALLEYS
160+89	USH 2 WB	LT	TEMP. POST	1	62	62	NO LEFT TURN TO CUMMING AVE.
161+33	USH 2 EB	CL	BARRICADE	2	62	124	REVERSE CURVE RT & 20 MPH WARNING
---	BAXTER AVE		BARRICADE	1	62	62	ROAD CLOSED ON ALLEY
163+30	USH 2 EB	RT	TEMP. POST	1	62	62	NO LEFT TURN TO BAXTER AVE.
163+78	USH 2	RT	BARRICADE	1	62	62	ROAD CLOSED
163+90	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING SOUTH)
164+02	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
164+31	BAXTER AVE		TEMP. POST	1	62	62	STOP (FACING SOUTH, ADD FLAGS)
164+60	USH 2 WB	LT	TEMP. POST	1	62	62	NO RIGHT TURN TO BAXTER AVE.
167+24	USH 2 WB	CL	BARRICADE	2	62	124	REVERSE CURVE RT & 20 MPH WARNING
167+24	USH 2 WB	LT	BARRICADE	1	62	62	ROAD CLOSED
168+20	USH 2	LT	BARRICADE	1	62	62	ROAD CLOSED
168+42	USH 2 EB	RT	TEMP. POST	1	62	62	TWO-WAY TRAFFIC
169+55	USH 2 EB	RT	TEMP. POST	1	62	62	NO PARKING ANY TIME
170+74	USH 2 EB	RT	TEMP. POST	1	62	62	NO LEFT TURN TO WEEKS AVE.
171+38	WEEKS AVE		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
171+48	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
172+00	USH 2 WB	RT	TEMP. POST	1	62	62	NO RIGHT TURN TO WEEKS AVE.
177+52	USH 2 EB	RT	TEMP. POST	1	62	62	NO PARKING ANY TIME
STAGE 5 SUBTOTAL						6072	

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CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
STAGE 5							
178+18	USH 2 EB	RT	TEMP. POST	1	62	62	NO LEFT TURN TO FISHER AVE.
178+68	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING SOUTH)
178+81	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
178+85	FISHER AVE		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
---	FISHER AVE		BARRICADE	1	62	62	ROAD CLOSED ON ALLEY
179+40	USH 2 WB	RT	TEMP. POST	1	62	62	NO RIGHT TURN TO FISHER AVE.
181+84	USH 2 EB	RT	TEMP. POST	1	62	62	NO LEFT TURN TO CATLIN AVE.
182+47	USH 2 MED.		BARRICADE	1	62	62	DOUBLE NIGHT ARROW (FACING SOUTH)
182+60	USH 2 MED.		BARRICADE	1	62	62	ROAD CLOSED (FACING SOUTH)
182+54	CATLIN AVE		BARRICADE	1	62	62	ROAD CLOSED (FACING NORTH)
---	CATLIN AVE		BARRICADES	2	62	124	ROAD CLOSED ON ALLEYS
183+11	USH 2 WB	RT	TEMP. POST	1	62	62	NO RIGHT TURN TO CATLIN AVE.
185+33	USH 2 WB	LT	BARRICADE	1	62	62	ROAD CLOSED
185+44	BIRCH AVE		TEMP. POST	1	62	62	STOP (FACING NORTH, ADD FLAGS)
186+52	USH 2 WB	RT	TEMP. POST	1	62	62	TWO-WAY TRAFFIC
188+45	USH 2 WB	LT	BARRICADE	1	62	62	NIGHT ARROW (LEFT)
188+52	CYPRESS AVE		TEMP. POST	1	62	62	STOP (FACING NORTH, ADD FLAGS)
190+35	ENTRANCE	LT	BARRICADE	1	62	62	ROAD CLOSED
190+45	USH 2 WB	LT	BARRICADE	2	62	124	REVERSE CURVE LT & 20 MPH WARNING
191+30	USH 2 WB	LT	BARRICADE	1	62	62	LANE CLOSED
191+38	POPLAR AVE		TEMP. POST	1	62	62	STOP (FACING NORTH, ADD FLAGS)
192+94	USH 2 WB	LT	BARRICADE	1	62	62	NIGHT ARROW (LEFT)
193+36	ENTRANCE	LT	BARRICADE	1	62	62	ROAD CLOSED
199+60	USH 2 EB	RT	TEMP. POST	1	62	62	END ROAD WORK
---	USH 2 WB	LT	TEMP. POSTS	4	62	248	ADVANCE SIGNING W/RT LANE CLOSURE
UNDISTRIBUTED				5	62	310	
			STAGE 5 TOTAL			8242	
STAGE 6							
---	BELKNAP ST	LT	BARRICADE	5	16	80	SIDEWALK CLOSED
---	BELKNAP ST	LT	BARRICADE (II)	3	16	48	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	BELKNAP ST	RT	BARRICADE (II)	4	16	64	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS		TEMP. POSTS	8	22	176	ROAD WORK AHEAD
---	SIDE ROADS		TEMP. POSTS	5	22	110	ROAD CLOSED AHEAD
---	USH 2 EB	RT	PERM. POST	4	22	88	ADVANCE SIGNING W/LT LANE CLOSURE
135+93	USH 2 WB	LT	PERM. POST	1	22	22	END ROAD WORK
142+28	USH 2 EB	CL	BARRICADE	1	22	22	NIGHT ARROW (RIGHT)
144+81	USH 2 WB	CL	BARRICADE	1	22	22	DOWN ARROW (LEFT)
145+68	USH 2 EB	LT	BARRICADE	1	22	22	ROAD CLOSED
145+70	USH 2 EB	RT	TEMP. POST	1	22	22	TWO-WAY TRAFFIC
147+05	USH 2 WB	RT	TEMP. POST	1	22	22	REVERSE CURVE RT
148+92	USH 2 MED.		BARRICADE	1	22	22	ROAD CLOSED (FACING SOUTH)
148+92	JOHN AVE		BARRICADE	1	22	22	ROAD CLOSED (FACING NORTH)
---	JOHN AVE		BARRICADES	2	22	44	ROAD CLOSED ON ALLEYS
150+70	USH 2 EB	RT	TEMP. POST	1	22	22	NO PARKING ANY TIME
152+00	USH 2 EB	RT	TEMP. POST	1	22	22	NO LEFT TURN TO HUGHITT AVE.
152+53	USH 2 MED.		BARRICADE	1	22	22	DOUBLE NIGHT ARROW (FACING SOUTH)
152+65	USH 2 MED.		BARRICADE	1	22	22	ROAD CLOSED (FACING SOUTH)
152+67	HUGHITT AVE		BARRICADE	1	22	22	ROAD CLOSED (FACING NORTH)
---	HUGHITT AVE		BARRICADES	2	22	44	ROAD CLOSED ON ALLEYS
153+17	USH 2 WB	RT	TEMP. POST	1	22	22	NO RIGHT TURN TO HUGHITT AVE.
154+76	USH 2 EB	RT	TEMP. POST	1	22	22	NO PARKING ANY TIME
155+70	USH 2 EB	RT	TEMP. POST	1	22	22	NO LEFT TURN TO HAMMOND AVE.
156+48	USH 2 MED.		BARRICADE	1	22	22	DOUBLE NIGHT ARROW (FACING SOUTH)
156+59	USH 2 MED.		BARRICADE	1	22	22	ROAD CLOSED (FACING SOUTH)
156+45	HAMMOND AVE		BARRICADE	1	22	22	ROAD CLOSED (FACING NORTH)
157+07	USH 2 WB	RT	TEMP. POST	1	22	22	NO RIGHT TURN TO HAMMOND AVE.
158+55	USH 2 EB	RT	TEMP. POST	1	22	22	NO PARKING ANY TIME
159+74	USH 2 EB	RT	TEMP. POST	1	22	22	NO LEFT TURN TO CUMMING AVE.
160+34	USH 2 MED.		BARRICADE	1	22	22	DOUBLE NIGHT ARROW (FACING SOUTH)
160+46	USH 2 MED.		BARRICADE	1	22	22	ROAD CLOSED (FACING SOUTH)
160+30	CUMMING AVE		BARRICADE	1	22	22	ROAD CLOSED (FACING NORTH)
---	CUMMING AVE		BARRICADE	1	22	22	ROAD CLOSED ON ALLEY
160+88	USH 2 WB	RT	TEMP. POST	1	22	22	NO RIGHT TURN TO CUMMING AVE.
161+97	USH 2 EB	RT	TEMP. POST	1	22	22	NO PARKING ANY TIME
163+58	USH 2 WB	LT	BARRICADE	1	22	22	ROAD CLOSED
164+90	USH 2 EB	LT	BARRICADE	1	22	22	ROAD CLOSED
STAGE 5 SUBTOTAL						1314	

CONT. TRAFFIC CONTROL SIGNS

STATION	LOCATION		SUPPORT	NUMBER OF SIGNS REQ'D	DAYS IN SERVICE	643.0900 TRAFFIC CONTROL SIGNS DAY	COMMENT
165+90	USH 2 EB	RT	TEMP. POST	1	22	22	NO PARKING ANY TIME
166+96	USH 2 EB	RT	TEMP. POST	1	22	22	NO LEFT TURN TO GRAND AVE.
167+71	USH 2 MED.		BARRICADE	1	22	22	DOUBLE NIGHT ARROW (FACING SOUTH)
167+83	USH 2 MED.		BARRICADE	1	22	22	ROAD CLOSED (FACING SOUTH)
167+66	GRAND AVE		BARRICADE	1	22	22	ROAD CLOSED (FACING NORTH)
168+10	USH 2 WB	RT	TEMP. POST	1	22	22	TWO-WAY TRAFFIC
168+88	USH 2 WB	RT	BARRICADE	1	22	22	NO RIGHT TURN TO GRAND AVE.
168+88	USH 2 WB	LT	BARRICADE	1	22	22	ROAD CLOSED
169+40	USH 2 EB	RT	TEMP. POST	1	22	22	NO PARKING ANY TIME
171+05	USH 2 WB	LT	BARRICADE	1	22	22	NIGHT ARROW (LEFT)
171+20	WEEKS AVE		TEMP. POST	1	22	22	STOP (FACING NORTH, ADD FLAGS)
173+00	USH 2 WB	LT	BARRICADE	2	22	44	REVERSE CURVE LT & 20 MPH WARNING
174+73	USH 2 WB	LT	BARRICADE	1	22	22	NIGHT ARROW (LEFT)
181+03	USH 2 EB	RT	TEMP. POST	1	22	22	END ROAD WORK
---	USH 2 WB	LT	TEMP. POSTS	4	22	88	ADVANCE SIGNING W/RT LANE CLOSURE
UNDISTRIBUTED				5	22	110	
			STAGE 6 TOTAL			1842	
STAGE 7							
---	BELKNAP ST	LT	BARRICADE (II)	4	7	28	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	BELKNAP ST	RT	BARRICADE (II)	4	7	28	SIDEWALK CLOSED AHEAD (L/R) CROSS HERE
---	SIDE ROADS		TEMP. POSTS	9	12	108	ROAD WORK AHEAD
---	USH 2 EB	RT	TEMP. POSTS	3	12	36	ADVANCE SIGNING W/LT LANE CLOSURE
135+93	USH 2 WB	LT	PERM. POST	1	12	12	END ROAD WORK
143+25	USH 2 WB	RT	BARRICADE	1	12	12	NIGHT ARROW (RIGHT)
143+88	USH 2 EB	RT	TEMP. POST	1	12	12	BEGIN LEFT TURN LANE
146+07	USH 2 EB	RT	BARRICADE	1	12	12	LANE CLOSED
146+50	USH 2 WB	LT	TEMP. POST	1	12	12	BEGIN LEFT TURN LANE
148+88	JOHN AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING NORTH)
149+56	USH 2 WB	LT	TEMP. POST	1	12	12	NO LEFT TURN TO JOHN AVE. S.
152+00	USH 2 EB	RT	TEMP. POST	1	12	12	NO LEFT TURN TO HUGHITT AVE. N.
			STAGE 7 SUBTOTAL			296	
STAGE 7							
152+60	HUGHITT AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING NORTH)
152+64	HUGHITT AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING SOUTH)
153+25	USH 2 WB	LT	TEMP. POST	1	12	12	NO LEFT TURN TO HUGHITT AVE. S.
156+02	USH 2 WB	LT	BARRICADE	1	12	12	LANE CLOSED
156+96	USH 2 EB	RT	BARRICADE	1	12	12	LANE CLOSED
159+77	USH 2 EB	RT	TEMP. POST	1	12	12	NO LEFT TURN TO CUMMING AVE. N.
160+31	CUMMING AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING NORTH)
160+33	CUMMING AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING SOUTH)
160+91	USH 2 WB	LT	TEMP. POST	1	12	12	NO LEFT TURN TO CUMMING AVE. S.
163+72	USH 2 WB	LT	BARRICADE	1	12	12	LANE CLOSED
164+52	USH 2 EB	RT	BARRICADE	1	12	12	LANE CLOSED
167+25	USH 2 WB	LT	BARRICADE	1	12	12	LANE CLOSED
168+17	USH 2 EB	RT	BARRICADE	1	12	12	LANE CLOSED
170+80	USH 2 EB	RT	TEMP. POST	1	12	12	NO LEFT TURN TO WEEKS AVE.
171+36	WEEKS AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING NORTH)
174+75	USH 2 WB	LT	TEMP. POST	1	12	12	NO LEFT TURN TO CLOUGH AVE.
178+18	USH 2 EB	RT	TEMP. POST	1	12	12	NO LEFT TURN TO FISHER AVE. N.
178+74	FISHER AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING SOUTH)
178+82	FISHER AVE		BARRICADE	1	12	12	NO LEFT TURN (FACING NORTH)
179+40	USH 2 WB	LT	TEMP. POST	1	12	12	NO LEFT TURN TO FISHER AVE. S.
182+12	USH 2 WB	LT	BARRICADE	1	12	12	LANE CLOSED
182+96	USH 2 EB	RT	BARRICADE	1	12	12	LANE CLOSED
185+28	USH 2 WB	LT	BARRICADE	1	12	12	LANE CLOSED
188+20	USH 2 WB	LT	BARRICADE	1	12	12	NIGHT ARROW (RIGHT)
192+70	USH 2 EB	RT	TEMP. POST	1	12	12	END ROAD WORK
---	USH 2 WB	LT	TEMP. POSTS	3	12	36	ADVANCE SIGNING W/LT LANE CLOSURE
UNDISTRIBUTED				3	12	36	
			STAGE 7 TOTAL			668	
PROJECT TOTAL						41134	

TRAFFIC CONTROL COVERING SIGNS TYPE II

STATION	LOCATION		643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	COMMENT
CAT. 0010				
STAGE 1				
135+88	EB	LT	1	LEFT TURN LANE
143+78	WB	LT	1	TWO HOUR PARKING
150+30	WB	LT	1	TWO HOUR PARKING
153+25	WB	LT	1	TWO HOUR PARKING
UNDISTRIBUTED			3	DETOUR ROUTE
		STAGE 1 TOTAL	7	
STAGE 4				
161+70	WB	LT	1	TWO HOUR PARKING
162+60	WB	LT	1	TWO HOUR PARKING
UNDISTRIBUTED			3	DETOUR ROUTE
		STAGE 4 TOTAL	5	
STAGE 5				
150+30	WB	LT	1	TWO HOUR PARKING
153+25	WB	LT	1	TWO HOUR PARKING
154+94	WB	LT	1	TWO HOUR PARKING
157+52	WB	LT	1	TWO HOUR PARKING
159+38	WB	LT	1	TWO HOUR PARKING
		STAGE 5 TOTAL	5	
STAGE 6				
149+94	EB	RT	1	TWO HOUR PARKING
151+93	EB	RT	1	TWO HOUR PARKING
158+98	EB	RT	1	TWO HOUR PARKING
162+53	EB	RT	1	TWO HOUR PARKING
165+11	EB	RT	1	TWO HOUR PARKING
		STAGE 6 TOTAL	5	
		PROJECT TOTAL	22	

NOTE: STAGES 2 & 3 IN YEAR 1 & STAGES 5, 6 & 7 IN YEAR 2 WILL HAVE SAME DETOUR ROUTE SIGNS COVERED.

3

TRAFFIC CONTROL SIGNS FIXED MESSAGE

643.1000

TRAFFIC CONTROL SIGNS FIXED MESSAGE

LOCATION		SF	MESSAGE
CAT. 0010			
STAGE 1,2,4,5&6			
EB USH 2	850 FT. WEST OF RAB	44	WIDE LOADS EXCEEDING 10 FT MUST EXIT AT GARFIELD AVE
NB USH 53	350 FT. S. OF 9TH AVE	28	WIDE LOADS FOLLOW TRUCK DETOUR
STAGE 1,2,4,5&6 - ALTERNATE ROUTE / TRUCK DETOUR ROUTE			
WB/NB USH 2/53	0.5 MI W OF USH 2/53 INTERCHANGE	65.0	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
NB CTH E	CTH E & CITY LIMITS RD	37.5	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
WB USH 2	1.5 MI EAST OF STH 27	65.0	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
NB STH 35	0.5 MI SOUTH OF STH 77	37.5	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
WB USH 2	1.5 MI EAST OF USH 63	65.0	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
NB USH 53	2.0 MI SOUTH OF STH 77	65.0	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
NB USH 53	3.0 MI NORTH OF CTH B	65.0	PERMMITED LOADS OVER 125 FT AND 52 TONS NO ACCESS TO DULUTH FROM SUPERIOR
	TOTAL	472	

TRAFFIC CONTROL SIGNS PCMS

643.1051

TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS

LOCATION		NUMBER OF SIGNS REQ'D	DAYS IN SERVICE	DAY	MESSAGE
CAT. 0010					
YEAR 1					
USH 2 EB	RT	1	7	7	BELKNAP
USH 2 WB	LT	1	7	7	STREET
* USH 2 EB	RT	1	180	180	VARIES
*USH 53 NB	RT	1	180	180	VARIES
YEAR 1 TOTAL				374	
CAT. 0010					
YEAR 2					
USH 2 EB	RT	1	7	7	BELKNAP
USH 2 WB	LT	1	7	7	STREET
* USH 2 EB	RT	1	187	187	VARIES
*USH 53 NB	RT	1	187	187	VARIES
YEAR 2 TOTAL				388	
PROJECT TOTAL				762	

NOTE: ACTUAL MESSAGE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
* SEE DETOUR LAYOUT SHEETS FOR SUGGESTED LOCATIONS.

TRAFFIC CONTROL DETOUR PROJECT

643.2000
TRAFFIC CONTROL DETOUR
PROJECT 01. 8680-00-71

LOCATION	EACH
CAT. 0010	
PROJECT	1
PROJECT TOTAL	1

TRAFFIC CONTROL DETOUR SIGNS

643.3000
TRAFFIC CONTROL DETOUR SIGNS

LOCATION		NUMBER OF SIGNS REQ'D	DAYS IN SERVICE YEAR 1	DAYS IN SERVICE YEAR 2	DAY	COMMENT
CAT. 0010						
ALL STAGES						
USH 2	EB	4	180	187	1468	ADV. WIDTH RESTRICTION ASSEMBLY
USH 2	EB	9	180	187	3303	ALTERNATE ROUTE/TRUCK DETOUR
USH 2	EB	9	180	187	3303	ALTERNATE ROUTE/TRUCK DETOUR
GARFIELD AVE	NB	2	180	187	734	WIDE LOADS EXCEED. & AHEAD ARROV
GARFIELD AVE	NB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
GARFIELD AVE	NB	9	180	187	3303	ALTERNATE ROUTE/TRUCK DETOUR
GARFIELD AVE	NB	9	180	187	3303	ALTERNATE ROUTE/TRUCK DETOUR
WINTER ST	EB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
WINTER ST	EB	10	180	187	3670	ALTERNATE ROUTE/TRUCK DETOUR
WINTER ST	EB	10	180	187	3670	ALTERNATE ROUTE/TRUCK DETOUR
TOWER AVE	NB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
TOWER AVE	NB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
STH 35/N 3RD ST	EB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
RAMP TO USH 53	EB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
USH 53	SB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
USH 53	SB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
USH 53	SB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
USH 53	SB	7	180	187	2569	ALT. ROUTE/TRUCK DETOUR (END)
USH 53	NB	4	180	187	1468	ADV. WIDTH RESTRICTION ASSEMBLY
USH 53	NB	9	180	187	3303	ALT. ROUTE/TRUCK DETOUR
USH 53	NB	9	180	187	3303	ALT. ROUTE/TRUCK DETOUR
USH 53	NB	2	180	187	734	WIDE LOADS EXCEED. & AHEAD ARROV
USH 53	NB	7	180	187	2569	ALT. ROUTE/TRUCK DETOUR
USH 53	NB	5	180	187	1835	WEST 2 TRUCK DETOUR
USH 53	NB	5	180	187	1835	WEST 2 TRUCK DETOUR
WINTER ST	WB	4	180	187	1468	WEST 2 TRUCK DETOUR
WINTER ST	WB	4	180	187	1468	WEST 2 TRUCK DETOUR
WINTER ST	WB	4	180	187	1468	WEST 2 TRUCK DETOUR
WINTER ST	WB	5	180	187	1835	WEST 2 TRUCK DETOUR
WINTER ST	WB	7	180	187	2569	ALTERNATE ROUTE/TRUCK DETOUR
WINTER ST	WB	5	180	187	1835	WEST 2 TRUCK DETOUR
SUSQUEHANNA	SB	5	180	187	1835	WEST 2 TRUCK DETOUR
SUSQUEHANNA	SB	5	180	187	1835	WEST 2 TRUCK DETOUR
SUSQUEHANNA	SB	5	180	187	1835	WEST 2 TRUCK DETOUR
RAMP TO USH 2	WB	4	180	187	1468	WEST 2 TRUCK DETOUR (END)
USH 53	NB	3	180	187	1101	ALTERNATE ROUTE (N. OF 'E' ST)
USH 53	NB	3	180	187	1101	ALTERNATE ROUTE
USH 53	NB	4	180	187	1468	ALTERNATE ROUTE (KEEP RIGHT)
USH 53	NB	4	180	187	1468	ALT. ROUTE (ADVANCE ARROW RT)
USH 53	NB	4	180	187	1468	ALT. ROUTE (ARROW TILT RT)
RAMP TO STH 35	WB	3	180	187	1101	ALTERNATE ROUTE
N. 3RD ST/STH 35	WB	3	180	187	1101	ALTERNATE ROUTE
TOWER AVE	SB	3	180	187	1101	ALTERNATE ROUTE
TOWER AVE	SB	4	180	187	1468	ALTERNATE ROUTE
TOWER AVE	SB	4	180	187	1468	ALTERNATE ROUTE
WINTER ST	WB	4	180	187	1468	ALTERNATE ROUTE
WINTER ST	WB	4	180	187	1468	ALTERNATE ROUTE
GARFIELD AVE	SB	3	180	187	1101	ALTERNATE ROUTE
GARFIELD AVE	SB	3	180	187	1101	ALTERNATE ROUTE (END)
UNDISTRIBUTED		10	180	187	3670	PROJECT
PROJECT TOTAL					102760	

TEMPORARY CURB RAMP *

644.1601.S

LOCATION		EACH
CAT. 0010		
STAGE 1		
CROSSWALK CHANGES		4
UNDISTRIBUTED		4
STAGE 1 TOTAL		8
STAGE 2		
CROSSWALK CHANGES		8
UNDISTRIBUTED		4
STAGE 2 TOTAL		12
STAGE 4		
CROSSWALK CHANGES		4
UNDISTRIBUTED		4
STAGE 4 TOTAL		8
STAGE 5		
CROSSWALK CHANGES		8
UNDISTRIBUTED		6
STAGE 5 TOTAL		14
STAGE 6		
CROSSWALK CHANGES		6
UNDISTRIBUTED		4
STAGE 6 TOTAL		10
PROJECT TOTAL	*	52

* FOR INFORMATION ONLY - ITEM IS INCIDENTAL TO TEMPORARY PEDESTRIAN ACCESS ITEMS.

*

TEMPORARY PEDESTRIAN SAFETY FENCE

644.1616.S

STATION	LOCATION	LF	COMMENT
CAT. 0010			
STAGE 1			
188+53	USH 2 SOUTH SIDE	84	W. SIDE OF CYPRESS AVE
198+52	USH 2 SOUTH SIDE	84	E. SIDE OF PINE AVE
201+75	USH 2 SOUTH SIDE	84	E. SIDE OF ELM AVE
208+02	USH 2 SOUTH SIDE	100	W. SIDE OF HILL AVE
208+66	USH 2 SOUTH SIDE	106	E. SIDE OF HILL AVE
	UNDISTRIBUTED	115	
	STAGE 1 TOTAL	573	
STAGE 2			
189+47	USH 2 NORTH SIDE	82	E. SIDE OF CYPRESS AVE
198+64	USH 2 NORTH SIDE	82	E. SIDE OF PINE AVE
201+84	USH 2 NORTH SIDE	84	E. SIDE OF ELM AVE
205+30	USH 2 NORTH SIDE	84	E. SIDE OF CEDAR AVE
207+88	USH 2 NORTH SIDE	86	W. SIDE OF HILL AVE
208+66	USH 2 NORTH SIDE	82	E. SIDE OF HILL AVE
	UNDISTRIBUTED	125	
	STAGE 2 TOTAL	625	
STAGE 3			
188+53	USH 2 MEDIAN	30	W. SIDE OF CYPRESS AVE
191+27	USH 2 MEDIAN	30	W. SIDE OF POPLAR AVE
197+87	USH 2 MEDIAN	30	W. SIDE OF PINE AVE
201+75	USH 2 MEDIAN	30	E. SIDE OF ELM AVE
207+90	USH 2 MEDIAN	34	W. SIDE OF HILL AVE
	UNDISTRIBUTED	39	
	STAGE 3 TOTAL	193	
STAGE 4			
164+32	USH 2 SOUTH SIDE	82	E. SIDE OF BAXTER AVE
168+11	USH 2 SOUTH SIDE	86	E. SIDE OF GRAND AVE
173+82	USH 2 SOUTH SIDE	80	W. SIDE OF CLOUGH AVE
182+25	USH 2 SOUTH SIDE	80	W. SIDE OF CATLIN AVE
	UNDISTRIBUTED	82	
	STAGE 4 TOTAL	410	
STAGE 5			
149+18	USH 2 SOUTH SIDE	80	E. SIDE OF JOHN AVE
152+86	USH 2 SOUTH SIDE	80	E. SIDE OF HUGHITT AVE
156+10	USH 2 SOUTH SIDE	86	W. SIDE OF HAMMOND AVE
160+05	USH 2 SOUTH SIDE	84	W. SIDE OF CUMMING AVE
171+70	USH 2 NORTH SIDE	88	E. SIDE OF WEEKS AVE
179+24	USH 2 NORTH SIDE	80	E. SIDE OF FISHER AVE
182+88	USH 2 NORTH SIDE	84	E. SIDE OF CATLIN AVE
	UNDISTRIBUTED	146	
	STAGE 5 TOTAL	728	
STAGE 6			
148+58	USH 2 NORTH SIDE	84	W. SIDE OF JOHN AVE
152+32	USH 2 NORTH SIDE	84	W. SIDE OF HUGHITT AVE
156+03	USH 2 NORTH SIDE	84	W. SIDE OF HAMMOND AVE
160+64	USH 2 NORTH SIDE	84	E. SIDE OF CUMMING AVE
164+32	USH 2 NORTH SIDE	56	E. SIDE OF BAXTER AVE
	UNDISTRIBUTED	98	
	STAGE 6 TOTAL	490	
STAGE 7			
152+32	USH 2 MEDIAN	30	W. SIDE OF HUGHITT AVE
160+64	USH 2 MEDIAN	30	E. SIDE OF CUMMING AVE
171+70	USH 2 MEDIAN	30	E. SIDE OF WEEKS AVE
178+32	USH 2 MEDIAN	30	W. SIDE OF FISHER AVE
	UNDISTRIBUTED	30	
	STAGE 7 TOTAL	150	
	PROJECT TOTAL	3168	*

* FOR INFORMATION ONLY - ITEM IS INCIDENTAL TO TEMPORARY PEDESTRIAN ACCESS ITEMS.

3

PAVEMENT MARKING

STATION - STATION	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	646.0126 EPOXY 8-INCH WHITE LF	647.0110 RAILROAD CROSSING EPOXY EACH	647.0156 ARROWS EPOXY TYPE I EACH	647.0166 ARROWS EPOXY TYPE II EACH	647.0176 ARROWS EPOXY TYPE III EACH	647.0206 ARROWS BIKE LANE EPOXY EACH	647.0256 SYMBOLS EPOXY EACH	647.0306 SYMBOLS BIKE LANE EPOXY EACH	647.0336 SYMBOLS BIKE SHARED LANE EPOXY EACH	647.0356 EPOXY WORDS EPOXY EACH	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0656 PARKING STALL EPOXY LF	647.0706 DIAGONAL EPOXY 6-INCH LF	647.0773 CROSSWALK EPOXY 12-INCH LF	647.0799 CROSSWALK PERFORMED PLASTIC 24-INCH LF	REMARKS
PROJECT 8680-00-71 CAT 10																				
STAGE 1 - DETOUR ROUTE																				
SUSQUEHANNA AVENUE/WINTER STREI	13730	13730																		USH 2 RAMP - TOWER AVE
GARFIELD AVENUE	4900	4900												20						ROUNDABOUT - WINTER ST
WINTER ST/ E 1ST STREET	16370	16370												20						TOWER AVE - USH 53
PROJECT 8680-00-71 CAT 0010 TOTAL	35,000	35,000	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	
PROJECT 8680-00-71 CAT 10																				
STAGE 3																				
USH 2 - MAINLINE																				
STA 134+00-STA 137+50	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	128	
STA 137+50-STA 141+37	155	546	193	-	-	3	-	-	-	-	-	-	-	78	-	-	-	-	256	
STA 141+37-STA 145+22	714	548	198	-	-	3	-	-	-	-	3	1	-	78	-	-	-	-	248	
STA 145+22-STA 147+60	380	379	75	-	-	1	-	-	-	-	2	1	10	39	1	-	-	-	120	
STA 184+60-STA 185+75	265	196	58	-	-	1	-	2	-	2	-	-	-	-	-	-	-	-	-	
STA 185+75- STA 189+25	618	457	51	-	-	1	-	5	-	4	-	-	13	-	2	-	-	-	240	
STA 189+25-STA 191+75	563	384	116	-	-	2	-	4	-	4	-	-	-	-	-	-	-	-	-	
STA 191+75-STA 196+25	1,126	551	231	2	-	2	-	4	-	4	-	-	-	-	-	-	101	-	-	
STA 196+25-STA 198+50	483	369	50	-	-	2	-	2	-	2	-	-	-	-	-	290	-	-	-	
STA 198+50-STA 201+50	572	416	133	2	-	2	-	4	-	4	-	-	10		2	270	-	-	232	
STA 201+50-STA 205+00	139	508	179	-	-	2	-	4		4		-	-	-	-	-	-	-	128	
STA 205+00-STA 208+50	369	443	49	-	-	1	-	3	-	4	-	1	10	40	2	198	-	-	240	
STA 208+50-STA 210+17	69	282	68	-	-	1	-	-	-	-	-	-	-	37	-	-	-	-	128	
SIDE ROADS																				
STA 4+26-STA 5+96	-	90	106	-	-	-	-	-	-	-	-	-	-	51	-	-	-	-	240	BANKS AVE
STA 687+36-STA 688+93	52	-	88	-	1	1	1	-	-	-	-	-	20	76	2	-	-	-	264	TOWER AVE
STA 99+36-STA 100+63	-	42	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-	-	176	OGDEN AVE
STA 420+00-STA 420+90	-	20	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	56	BIRCH AVE
STA 438+65-STA 440+00	-	172	40	-	-	2	-	-	-	-	-	-	-	25	-	-	-	-	96	MORTORELLI AVE
STA 430+00-STA 430+60	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CYPRESS AVE
STA 450+00-STA 451+25	-	150	75	-	-	2	-	-	-	-	-	-	-	26	-	-	-	-	88	POPLAR AVE
STA 460+00-STA 461+05	-	106	-	-	-	-	-	-	-	-	-	-	-	14	-	108	-	-	56	PINE AVE
STA 481+00-STA 482+15	104	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ELM AVE
PROJECT 8680-00-71 CAT 0010 TOTAL	5,609	5,889	1,710	4	1	26	1	28	0	28	5	3	63	557	9	866	101	0	2,696	
PROJECT 8680-00-71 CAT 80																				
STA 3+77-STA 4+26	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STA 5+96-STA 6+19	-	46	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BANKS AVE
STA 685+54-STA 687+36	57	-	286	-	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	TOWER AVE
STA 688+93-STA 689+34	82	-	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TOWER AVE
STA 98+99-STA 99+35	-	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	OGDEN AVE
STA 100+63-STA 101+29	-	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	OGDEN AVE
STA 420+90 - STA 422+20	-	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BIRCH AVE
STA 430+60-STA 432+60	153	122	-	-	-	-	-	-	1	-	-	-	-	-	-	169	-	-	-	CYPRESS AVE
STA 437+75-STA 438+65	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MORTORELLI DR
STA 451+25-STA 542+25	-	200	25	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	POPLAR AVE
STA 461+05-STA 461+75	-	140	25	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	PINE AVE
STA 481+00-STA 482+15	-	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CEDAR AVE
PROJECT 8680-00-71 CAT 0080 TOTAL	292	2,465	489	0	2	6	0	0	1	0	0	0	0	0	0	206	0	0	0	

CONT. PAVEMENT MARKING

STATION - STATION	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	646.0126 EPOXY 8-INCH WHITE LF	647.011 RAILROAD CROSSING EPOXY EACH	647.0156 ARROWS EPOXY TYPE I EACH	647.0166 ARROWS EPOXY TYPE II EACH	647.0176 ARROWS EPOXY TYPE III EACH	647.0206 ARROWS BIKE LANE EPOXY EACH	647.0256 SYMBOLS EPOXY EACH	647.0306 SYMBOLS BIKE LANE EPOXY EACH	647.0336 SYMBOLS BIKE SHARED LANE EPOXY EACH	647.0356 EPOXY WORDS EACH	647.0456 CURB EPOXY LF	647.0556 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0656 PARKING STALL EPOXY LF	647.0706 DIAGONAL EPOXY 6-INCH LF	647.0773 CROSSWALK EPOXY 12-INCH LF	647.0799 CROSSWALK PERFORMED PLASTIC 24-INCH LF	REMARKS
PROJECT 8680-00-71 CAT 10																				
STAGE 6																				
USH 2 - MAINLINE																				
STA 147+60-STA 149+00	47	201	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	96	
STA 149+00-STA 152+50	749	607	126	-	-	2	-	-	-	-	4	2	20	-	2	-	205	-	248	
STA 152+50-STA 156+50	738	590	221	-	-	3	-	-	-	-	4	2	-	39	-	-	186	-	256	
STA 156+50-STA 160+50	746	600	224	-	-	3	-	-	-	-	4	2	-	39	-	85	167	-	304	
STA 160+50-STA 164+00	744	596	221	-	-	3	-	-	-	-	4	2	-	-	-	-	207	-	256	
STA 164+00-STA 167+50	686	558	150	-	-	2	-	-	-	-	4	1	20	39	2	-	106	-	224	
STA 167+50-STA 174+00	862	750	105	-	-	2	-	-	-	-	4	2	75	39	6	48	200	-	456	
STA 174+00-STA 179+00	837	-	179	-	-	3	-	-	-	-	5	2	20	-	2	224	245	-	104	
STA 179+00-STA 182+50	142	570	209	-	-	3	-	-	-	-	4	-	-	38	-	-	-	-	264	
STA182+50-STA 184+60	418	336	127	-	-	2	-	-	-	-	2	-	-	39	-	-	-	-	128	
SIDE ROADS																				
STA 298+80-STA 301+25	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	96	JOHN AVE
STA 309+05-STA 311+00	-	186	-	-	-	-	-	-	2	-	-	-	-	26	-	212	-	-	88	HUGHITT AVE
STA 329+75-STA 330+59	122	152	152	-	2	3	1	-	-	-	-	-	-	71	-	85	-	-	216	HAMMOND AVE
STA 339+00-STA 340+50	44	176	-	-	-	-	-	-	-	-	-	-	-	27	-	100	-	-	96	CUMMING AVE
STA 348+36-STA 350+54	233	-	-	-	-	-	-	-	1	-	-	-	-	30	-	75	-	-	80	BAXTER AVE
STA 358+85-STA 371+10	33	234	192	-	1	2	1	-	-	-	-	-	-	66	-	-	-	-	184	LAMBORN/GRAND AVE
STA 380+00-STA 380+85	-	62	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	56	WEEKS AVE
STA 398+05-STA 401+00	-	386	48	-	-	1	1	-	-	-	-	-	-	42	-	-	-	-	80	FISHER AVE
STA 408+00-STA 411+75	-	490	171	-	-	3	4	-	-	-	-	-	-	51	-	-	-	-	152	CATLIN AVE
PROJECT 8680-00-71 CAT 0010 TOTAL	6,399	6,494	2,125	0	3	32	7	0	3	0	37	13	135	578	13	829	1,316	0	3,384	
SIDE ROADS																				
CAT 0080																				
STA 307+80-STA 309+00	-	240	-	-	-	-	-	-	-	-	-	-	-	-	-	204	-		-	HUGHITT AVE
STA 311+00-STA 312+20	-	238	-	-	-	-	-	-	-	-	-	-	-	-	-	207	-		-	HUGHITT AVE
STA 331+00-STA 332+15	186	-	186	-	1	1	1	-	-	-	-	-	-	-	-	-	-		-	HAMMOND AVE
STA 337+90-STA 342+50	54	764	-	-	-	-	-	-	6	-	-	-	-	-	-	382	-		-	CUMMING AVE
STA 351+00-STA 352+29	85	-	-	-	-	-	-	-	1	-	-	-	-	-	-	376	-	40	-	BAXTER AVE
STA 380+85-STA 382+50	-	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	WEEKS AVE
PROJECT 8680-00-71 CAT 0080 TOTAL	325	1572	186	0	1	1	1	0	7	0	0	0	0	0	0	1169	0	40	0	
PROJECT 8998-00-24 CAT 0010																				
STAGE 1																				
SIDE ROADS																				
STA 497+75 - STA 498+98	-	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HILL AVE
CAT 0010 STAGE 1 TOTAL	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
STAGE 4																				
SIDE ROADS																				
STA 326+50 - STA 329+15	419	372	66	-	1	2	-	-	-	-	-	-	-	-	-	125	-	-	-	HAMMOND AVE
STA 357+79 - STA 358+85	131	212	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LAMBORN AVE
STA 101+67-STA 100+00	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GRAND AVE
STA 407+83-STA 408+00	14	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CATLIN AVE
CAT 0010 STAGE 4 TOTAL	633	603	152	0	1	2	0	0	0	0	0	0	0	0	0	125	0	0	0	
STAGE 5																				
SIDE ROADS																				
STA 371+10-STA 372+00	-	306	217	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	GRAND AVE
STA 411+75 - STA 412+50	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CATLIN AVE
CAT 0010 STAGE 5 TOTAL	0	456	217	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
PROJECT 8680-00-71 CAT 0010 TOTAL	47,007	47,383	3,835	4	4	58	8	28	3	28	42	16	198	1,175	22	1,695	1,417	0	6,080	
PROJECT 8680-00-71 CAT 0080 TOTAL	617	4,037	675	0	3	7	1	0	8	0	0	0	0	0	0	1,375	0	40	0	
PROJECT 8998-00-24 CAT 0010 TOTAL	633	1,309	369	0	2	4	0	0	0	0	0	0	0	0	0	125	0	0	0	
TOTALS	48,257	52,729	4,879	4	9	69	9	28	11	28	42	16	198	1,175	22	3,195	1,417	40	6,080	

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REMOVING PAVEMENT MARKINGS

STATION	-	STATION	LOCATION	646.0600 REMOVING PAVEMENT MARKINGS LF	TYPE
CAT. 0010					
STAGE 1					
149+20	-	150+00	USH 2 CL	160	DOUBLE YELLOW
179+50	-	181+00	USH 2 CL	300	DOUBLE YELLOW
181+00	-	181+65	USH 2 CL	65	SOLID YELLOW
210+50	-	212+00	USH 2 CL	300	DOUBLE YELLOW
		UNDISTRIBUTED		124	
			STAGE 1 TOTAL	949	
STAGE 2					
147+50	-	148+55	USH 2 CL	210	DOUBLE YELLOW
149+25	-	151+50	USH 2 CL	450	DOUBLE YELLOW
182+85	-	183+85	USH 2 CL	200	DOUBLE YELLOW
211+00	-	212+25	USH 2 CL	250	DOUBLE YELLOW
		UNDISTRIBUTED		167	
			STAGE 2 TOTAL	1277	
STAGE 4					
142+50	-	144+80	USH 2 CL	460	DOUBLE YELLOW
157+50	-	160+00	USH 2 CL	500	DOUBLE YELLOW
189+50	-	190+25	USH 2 CL	150	DOUBLE YELLOW
		UNDISTRIBUTED		167	
			STAGE 4 TOTAL	1277	
STAGE 5					
142+75	-	144+75	USH 2 CL	400	DOUBLE YELLOW
161+55	-	162+65	USH 2 CL	220	DOUBLE YELLOW
186+20	-	187+80	USH 2 CL	160	SOLID YELLOW
187+80	-	188+40	USH 2 CL	120	DOUBLE YELLOW
		UNDISTRIBUTED		135	
			STAGE 5 TOTAL	1035	
STAGE 6					
142+50	-	143+75	USH 2 CL	250	DOUBLE YELLOW
		UNDISTRIBUTED		50	
			STAGE 6 TOTAL	300	
			PROJECT TOTAL	4837	

REMOVING PAVEMENT MARKINGS ARROWS & WORDS

STATION	LOCATION	647.0955 REMOVING PAVEMENT MARKINGS ARROWS EACH	647.0965 REMOVING PAVEMENT MARKINGS WORDS EACH	COMMENT
CAT. 0010				
STAGE 1				
135+80	EB	1	---	LEFT TURN ARROW
136+40	EB	---	1	'ONLY'
UNDISTRIBUTED		1	1	---
STAGE 2				
UNDISTRIBUTED		1	1	---
STAGE 3				
UNDISTRIBUTED		1	1	---
STAGE 4				
UNDISTRIBUTED		1	1	---
STAGE 5				
UNDISTRIBUTED		1	1	---
STAGE 6				
UNDISTRIBUTED		1	1	---
PROJECT TOTALS		7	7	

TEMPORARY PAVEMENT MARKING ITEMS

STATION	- STATION	LOCATION		649.0400 REMOVABLE TAPE 4-INCH WHITE LF	649.0400 REMOVABLE TAPE 4-INCH YELLOW LF	649.0402 PAINT 4-INCH WHITE LF	649.0402 PAINT 4-INCH YELLOW LF	COMMENT
CAT. 0010								
STAGE 1								
129+60	- 132+35	USH 2	RT	275	---	---	---	EB TAPER & LANE CLOSURE
133+40	- 135+70	USH 2	RT	230	---	---	---	EB LANE DELINEATION
134+34	- 135+52	USH 2	RT	118	---	---	---	EB LANE DELINEATION
138+07	- 140+75	USH 2	LT	268	---	---	---	EB EDGELINE
137+16	- 138+07	USH 2	LT	---	29	---	---	4-FT SKIPS EVERY 12.5'
138+07	- 140+75	USH 2	LT	---	536	---	---	DOUBLE YELLOW
141+87	- 144+82	USH 2	LT	---	590	---	---	DOUBLE YELLOW
141+87	- 144+82	USH 2	LT	295	---	---	---	EB EDGELINE
145+45	- 148+51	USH 2	LT	306	---	---	---	EB EDGELINE
145+65	- 148+63	USH 2	LT	---	596	---	---	DOUBLE YELLOW
148+63	- 149+48	USH 2	LT	---	28	---	---	4-FT SKIPS EVERY 12.5'
149+26	- 151+80	USH 2	LT	---	254	---	---	WB LANE CLOSURE & TAPER
174+70	- 176+50	USH 2	RT	180	---	---	---	EB TAPER
176+85	- 178+50	USH 2	RT	165	---	---	---	EB LANE CLOSURE & TAPER
177+25	- 178+55	USH 2	LT	---	130	---	---	EB TAPER (LEFT)
177+25	- 178+55	USH 2	LT	---	130	---	---	SOLID YELLOW
179+45	- 182+10	USH 2	RT	265	---	---	---	EB LANE DELINEATION
179+40	- 180+65	USH 2	LT	---	250	---	---	DOUBLE YELLOW
179+95	- 182+15	USH 2	LT	---	440	---	---	DOUBLE YELLOW
182+92	- 184+10	USH 2	LT	---	236	---	---	DOUBLE YELLOW
184+10	- 185+56	USH 2	LT	---	---	---	292	DOUBLE YELLOW
182+95	- 184+10	USH 2	LT	115	---	---	---	EB EDGELINE
184+10	- 188+73	USH 2	LT	---	---	463	---	EB EDGELINE
186+10	- 188+58	USH 2	LT	---	---	---	496	DOUBLE YELLOW
189+35	- 191+27	USH 2	LT	---	---	---	384	DOUBLE YELLOW
189+35	- 191+32	USH 2	LT	---	---	197	---	EB EDGELINE
192+00	- 195+97	USH 2	LT	---	---	---	794	DOUBLE YELLOW
191+85	- 195+97	USH 2	LT	---	---	412	---	EB EDGELINE
196+58	- 197+94	USH 2	LT	---	---	---	272	DOUBLE YELLOW
196+58	- 210+20	USH 2	LT	---	---	1362	---	EB EDGELINE
198+68	- 201+10	USH 2	LT	---	---	---	484	DOUBLE YELLOW
201+80	- 204+45	USH 2	LT	---	---	---	530	DOUBLE YELLOW
205+16	- 208+10	USH 2	LT	---	---	---	588	DOUBLE YELLOW
208+77	- 210+15	USH 2	LT	---	276	---	---	DOUBLE YELLOW
210+55	- 212+00	USH 2	RT	145	---	---	---	EB EDGELINE
210+52	- 212+25	USH 2	LT/RT	---	173	---	---	EB EDGELINE (LEFT)
210+52	- 211+85	USH 2	LT	---	133	---	---	WB LANE DELINEATION
211+15	- 213+02	USH 2	LT	---	187	---	---	WB TAPER & TURN LANE
UNDISTRIBUTED				236	---	246	---	
			STAGE 1 TOTALS	2598	3988	2680	3840	
STAGE 2								
128+60	- 132+30	USH 2	RT	---	370	---	---	EB TAPER & LANE CLOSURE
133+40	- 137+06	USH 2	RT	---	366	---	---	LANE DELINEATION
134+79	- 135+68	USH 2	RT	89	---	---	---	LANE DELINEATION
137+15	- 138+04	USH 2	LT	---	31	---	---	4-FT SKIPS EVERY 12.5'
138+00	- 140+85	USH 2	RT	285	---	---	---	WB EDGELINE
138+00	- 140+85	USH 2	RT	---	570	---	---	DOUBLE YELLOW
141+88	- 144+85	USH 2	RT	---	594	---	---	DOUBLE YELLOW
141+88	- 145+00	USH 2	RT	312	---	---	---	WB EDGELINE
145+75	- 148+55	USH 2	RT	280	---	---	---	WB EDGELINE
145+65	- 146+74	USH 2	RT	---	218	---	---	DOUBLE YELLOW
146+74	- 148+52	USH 2	RT	---	178	---	---	WB EDGELINE (LEFT)
146+74	- 148+52	USH 2	RT	---	178	---	---	EB EDGELINE (LEFT)
149+25	- 151+57	USH 2	RT	---	232	---	---	WB EDGELINE (LEFT)
149+25	- 151+57	USH 2	RT	---	232	---	---	EB EDGELINE (LEFT)
149+25	- 152+27	USH 2	RT	302	---	---	---	WB EDGELINE
153+00	- 155+58	USH 2	RT	258	---	---	---	WB TAPER & LANE DELINEATION
179+05	- 181+85	USH 2	RT	---	280	---	---	EB TAPER & LANE DELINEATION
182+91	- 188+85	USH 2	RT	---	1188	---	---	DOUBLE YELLOW
182+86	- 184+34	USH 2	RT	---	148	---	---	WB EDGELINE (LEFT)
182+91	- 196+02	USH 2	RT	1311	---	---	---	WB EDGELINE
189+44	- 196+02	USH 2	RT	---	1316	---	---	DOUBLE YELLOW
			STAGE 2 SUBTOTALS	2837	5901	0	0	

TEMPORARY PAVEMENT MARKING ITEMS

STATION	- STATION	LOCATION		649.0400 REMOVABLE TAPE 4-INCH WHITE LF	649.0400 REMOVABLE TAPE 4-INCH YELLOW LF	649.0402 PAINT 4-INCH WHITE LF	649.0402 PAINT 4-INCH YELLOW LF	COMMENT
196+58	- 201+15	USH 2	RT	---	914	---	---	DOUBLE YELLOW
196+58	- 210+28	USH 2	RT	1370	---	---	---	WB EDGELINE
201+75	- 207+90	USH 2	RT	---	1230	---	---	DOUBLE YELLOW
208+55	- 210+44	USH 2	RT	---	378	---	---	DOUBLE YELLOW
210+28	- 212+92	USH 2	RT/LT	264	---	---	---	WB SHIFTING TAPER
211+70	- 212+95	USH 2	RT/LT	---	125	---	---	WB SHIFTING TAPER (LEFT)
211+08	- 211+65	USH 2	RT	57	---	---	---	WB TURN LANE LINE
211+02	- 212+26	USH 2	RT	---	124	---	---	SOLID YELLOW
214+28	- 216+23	USH 2	LT	195	---	---	---	WB TAPER
UNDISTRIBUTED				472	---	---	---	
			STAGE 2 TOTALS	5195	8672	0	0	
STAGE 3								
	-	TOWER	NB	---	130	---	---	NB TOWER AVE MERGING TAPER
	-	TOWER	NB	---	395	---	---	NB TOWER AVE LANE DELINEATION
	-	TOWER	SB	---	130	---	---	SB TOWER AVE MERGING TAPER
	-	TOWER	SB	---	390	---	---	SB TOWER AVE LANE DELINEATION
128+60	- 132+30	USH 2	RT	---	370	---	---	EB TAPER & LANE DELINEATION
133+48	- 137+06	USH 2	RT	---	358	---	---	LANE DELINEATION
134+79	- 135+68	USH 2	RT	89	---	---	---	TURN LANE DELINEATION
138+05	- 140+70	USH 2	RT	---	265	---	---	EB EDGELINE (LEFT)
138+10	- 140+68	USH 2	LT	---	258	---	---	WB EDGELINE (LEFT)
142+00	- 143+25	USH 2	RT	---	125	---	---	EB EDGELINE (LEFT)
143+50	- 144+75	USH 2	LT	---	125	---	---	WB EDGELINE (LEFT)
145+75	- 147+85	USH 2	RT	---	210	---	---	EB EDGELINE (LEFT)
145+84	- 148+54	USH 2	LT	---	270	---	---	WB EDGELINE (LEFT)
182+82	- 184+22	USH 2	RT	---	140	---	---	EB TAPER (LEFT)
184+22	- 196+17	USH 2	RT	---	1195	---	---	EB EDGELINE (LEFT)
182+82	- 184+22	USH 2	LT	---	140	---	---	WB DOWNSTREAM TAPER (LEFT)
184+22	- 196+17	USH 2	LT	---	1195	---	---	WB EDGELINE (LEFT)
196+41	- 210+45	USH 2	RT	---	1404	---	---	EB EDGELINE (LEFT)
196+41	- 210+36	USH 2	LT	---	1395	---	---	WB EDGELINE (LEFT)
210+85	- 211+77	USH 2	LT	---	92	---	---	WB TAPER (LEFT)
210+85	- 211+72	USH 2	RT	---	87	---	---	EB DOWNSTREAM TAPER (LEFT)
UNDISTRIBUTED				9	859	---	---	
			STAGE 3 TOTALS	98	9533	0	0	
STAGE 4								
153+07	- 155+93	USH 2	RT	---	---	286	---	EB TAPER & LANE DELINEATION
156+96	- 159+86	USH 2	RT	---	---	290	---	EB EDGELINE
156+96	- 159+58	USH 2	RT/LT	---	---	---	262	LANE DELINEATION (LEFT)
159+01	- 159+91	USH 2	LT	---	---	---	180	DOUBLE YELLOW
160+66	- 163+72	USH 2	LT	---	---	---	612	DOUBLE YELLOW
164+21	- 167+24	USH 2	LT	---	---	---	606	DOUBLE YELLOW
168+22	- 171+10	USH 2	LT	---	---	---	576	DOUBLE YELLOW
171+75	- 178+53	USH 2	LT	---	---	---	1356	DOUBLE YELLOW
179+08	- 182+20	USH 2	LT	---	---	---	624	DOUBLE YELLOW
182+85	- 184+40	USH 2	LT	---	---	---	310	DOUBLE YELLOW
184+40	- 185+45	USH 2	LT	---	210	---	---	DOUBLE YELLOW
186+12	- 188+48	USH 2	LT	---	472	---	---	DOUBLE YELLOW
161+05	- 184+60	USH 2	LT	---	---	2355	---	EB EDGELINE
184+60	- 188+50	USH 2	LT	390	---	---	---	EB EDGELINE
189+11	- 191+54	USH 2	LT	---	243	---	---	LANE DELINEATION & WB TAPER
189+25	- 190+25	USH 2	LT	---	100	---	---	EB DOWNSTREAM TAPER (LEFT)
UNDISTRIBUTED				39	---	292	---	
			STAGE 4 TOTALS	429	1025	3223	4526	
STAGE 5								
129+60	- 132+35	USH 2	RT	275	---	---	---	EB TAPER & LANE DELINEATION
133+40	- 137+13	USH 2	RT	373	---	---	---	LANE DELINEATION
134+34	- 135+52	USH 2	RT	118	---	---	---	TURN LANE DELINEATION
138+00	- 140+78	USH 2	RT	278	---	---	---	EB EDGELINE
139+70	- 140+85	USH 2	RT	115	---	---	---	TURN LANE DELINEATION
141+87	- 144+77	USH 2	RT	290	---	---	---	EB EDGELINE
141+87	- 144+42	USH 2	RT/LT	---	255	---	---	EB EDGELINE (LEFT)
144+02	- 144+77	USH 2	LT	---	75	---	---	SOLID YELLOW
145+70	- 147+60	USH 2	LT	190	---	---	---	EB EDGELINE
			STAGE 5 SUBTOTALS	1639	330	0	0	

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TEMPORARY PAVEMENT MARKING ITEMS

STATION	- STATION	LOCATION		649.0400 REMOVABLE TAPE 4-INCH WHITE LF	649.0400 REMOVABLE TAPE 4-INCH YELLOW LF	649.0402 PAINT 4-INCH WHITE LF	649.0402 PAINT 4-INCH YELLOW LF	COMMENT
147+60	- 161+55	USH 2	LT	---	---	1395	---	EB EDGELINE
161+55	- 163+78	USH 2	LT/RT	223	---	---	---	EB EDGELINE
145+68	- 147+60	USH 2	LT	---	384	---	---	DOUBLE YELLOW
147+60	- 148+55	USH 2	LT	---	---	---	190	DOUBLE YELLOW
149+19	- 152+33	USH 2	LT	---	---	---	628	DOUBLE YELLOW
152+90	- 156+04	USH 2	LT	---	---	---	628	DOUBLE YELLOW
156+92	- 159+98	USH 2	LT	---	---	---	612	DOUBLE YELLOW
160+58	- 163+77	USH 2	LT	---	---	---	638	DOUBLE YELLOW
161+55	- 166+12	USH 2	LT	---	---	457	---	WB EDGELINE
164+29	- 165+08	USH 2	LT	---	---	---	158	DOUBLE YELLOW
165+08	- 167+35	USH 2	RT	---	454	---	---	DOUBLE YELLOW
164+34	- 166+52	USH 2	RT	218	---	---	---	EB EDGELINE
166+12	- 167+28	USH 2	RT	116	---	---	---	WB EDGELINE
168+20	- 173+92	USH 2	RT	---	1144	---	---	DOUBLE YELLOW
174+46	- 178+46	USH 2	RT	---	800	---	---	DOUBLE YELLOW
179+00	- 182+22	USH 2	RT	---	644	---	---	DOUBLE YELLOW
182+95	- 185+50	USH 2	RT	---	510	---	---	DOUBLE YELLOW
186+18	- 188+50	USH 2	RT	---	464	---	---	DOUBLE YELLOW
168+20	- 185+42	USH 2	RT	1722	---	---	---	WB EDGELINE
186+20	- 188+44	USH 2	RT	224	---	---	---	WB EDGELINE & SHIFTING TAPER
187+10	- 188+40	USH 2	RT	---	130	---	---	WB SHIFTING TAPER (LEFT)
189+13	- 191+37	USH 2	LT	224	---	---	---	WB EDGELINE
192+20	- 194+00	USH 2	LT	180	---	---	---	WB TAPER
UNDISTRIBUTED				455	486	184	---	
STAGE 5 TOTALS				5001	5346	2036	2854	
STAGE 6								
141+88	- 144+30	USH 2	RT	---	242	---	---	LANE DELINEATION & EB TAPER
141+88	- 144+30	USH 2	RT	---	242	---	---	WB DOWNSTREAM TAPER (LEFT)
143+26	- 144+81	USH 2	RT	155	---	---	---	WB EDGELINE
144+30	- 144+81	USH 2	RT	---	102	---	---	DOUBLE YELLOW
145+71	- 148+71	USH 2	RT	---	600	---	---	DOUBLE YELLOW
149+23	- 152+28	USH 2	RT	---	610	---	---	DOUBLE YELLOW
152+97	- 156+02	USH 2	RT	---	610	---	---	DOUBLE YELLOW
156+99	- 160+05	USH 2	RT	---	612	---	---	DOUBLE YELLOW
160+65	- 163+70	USH 2	RT	---	610	---	---	DOUBLE YELLOW
164+38	- 167+38	USH 2	RT	---	600	---	---	DOUBLE YELLOW
168+20	- 170+97	USH 2	RT	---	554	---	---	DOUBLE YELLOW
145+71	- 163+70	USH 2	RT	1799	---	---	---	WB EDGELINE
164+38	- 169+02	USH 2	RT	464	---	---	---	WB EDGELINE
169+02	- 171+10	USH 2	RT	208	---	---	---	WB SHIFTING TAPER
172+95	- 174+00	USH 2	LT	105	---	---	---	WB EDGELINE
174+00	- 175+85	USH 2	LT	185	---	---	---	WB TAPER
UNDISTRIBUTED				291	478	---	---	
STAGE 6 TOTALS				3207	5260	0	0	
STAGE 7								
142+60	- 144+44	USH 2	RT	---	184	---	---	EB TAPER & LANE DELINEATION
146+04	- 156+00	USH 2	RT	---	996	---	---	EB EDGELINE (LEFT)
145+95	- 156+00	USH 2	LT	---	1005	---	---	WB EDGELINE (LEFT)
156+97	- 163+70	USH 2	RT	---	673	---	---	EB EDGELINE (LEFT)
156+92	- 163+70	USH 2	LT	---	678	---	---	WB EDGELINE (LEFT)
164+36	- 167+23	USH 2	RT	---	287	---	---	EB EDGELINE (LEFT)
164+36	- 167+23	USH 2	LT	---	287	---	---	WB EDGELINE (LEFT)
168+16	- 182+13	USH 2	RT	---	1397	---	---	EB EDGELINE (LEFT)
168+14	- 182+13	USH 2	LT	---	1399	---	---	WB EDGELINE (LEFT)
182+95	- 184+70	USH 2	RT	---	175	---	---	EB EDGELINE (LEFT)
182+95	- 185+43	USH 2	LT	---	248	---	---	WB EDGELINE (LEFT)
186+04	- 188+37	USH 2	LT	---	233	---	---	WB TAPER & LANE DELINEATION
UNDISTRIBUTED				---	756	---	---	
STAGE 7 TOTALS				0	8318	0	0	
ITEM SUB-TOTALS				16528	42142	7939	11220	
PROJECT TOTALS				58670		19159		

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH

STATION	LOCATION	649.0600 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH LF	COMMENT
CAT. 0010			
STAGE 2			
189+47	USH 2 SOUTH SIDE	54	E. SIDE OF CYPRESS AVE
198+64	USH 2 SOUTH SIDE	54	E. SIDE OF PINE AVE
201+84	USH 2 SOUTH SIDE	54	E. SIDE OF ELM AVE
205+30	USH 2 SOUTH SIDE	50	E. SIDE OF CEDAR AVE
207+88	USH 2 SOUTH SIDE	60	W. SIDE OF HILL AVE
208+66	USH 2 SOUTH SIDE	68	E. SIDE OF HILL AVE
	UNDISTRIBUTED	51	
	STAGE 2 TOTAL	391	
STAGE 5			
168+16	USH 2 SOUTH SIDE	50	E. SIDE OF GRAND AVE
171+70	USH 2 SOUTH SIDE	50	E. SIDE OF WEEKS AVE
182+20	USH 2 SOUTH SIDE	54	W. SIDE OF CATLIN AVE
	UNDISTRIBUTED	23	
	STAGE 5 TOTAL	177	
STAGE 6			
152+32	USH 2 SOUTH SIDE	52	W. SIDE OF HUGHITT AVE
156+01	USH 2 SOUTH SIDE	52	W. SIDE OF HAMMOND A
160+64	USH 2 SOUTH SIDE	56	E. SIDE OF CUMMING AVE
	UNDISTRIBUTED	24	
	STAGE 6 TOTAL	184	
	PROJECT TOTAL	752	

CONSTRUCTION STAKING

STATION - STATION	650.4500* SUBGRADE LF	650.5000** BASE LF	650.7000 CONCRETE PAVEMENT LF	650.8500 ELECTRICAL INSTALLATIONS (PROJECT) LS	650.9910 SUPPLEMENTAL CONTROL (PROJECT) LS	REMARKS
PROJECT 8680-00-71						
CAT 0010						
USH 2 - MAINLINE						
STA 135+28 - STA 210+18	0	0	0	1	1	PROJECT
STA 137+08 - STA 140+66	716		358			
STA 146+15 - STA 210+18	12806		6403			
SIDEROADS						
STA 298+80 - STA 299+68	176	51	37			JOHN AVE S
STA 300+32 - STA 301+25	186	61	32			JOHN AVE N
STA 309+05 - STA 309+68	126	41	22			HUGHITT AVE S
STA 310+32 - STA 311+00	136	46	22			HUGHITT AVE S
STA 329+15 - STA 329+68	106	0	53			HAMMOND AVE S
STA 330+32 - STA 331+00	136	0	68			HAMMOND AVE N
STA 339+00 - STA 339+68	136	46	22			CUMMING AVE S
STA 340+32 - STA 340+95	126	41	22			CUMMING AVE N
STA 348+95 - STA 349+68	146	51	22			BAXTER AVE S
STA 350+32 - STA 351+00	136	46	22			BAXTER AVE N
STA 358+85 - STA 359+68	166	50	33			LAMBORN AVE
STA 370+32 - STA 371+10	156	50	28			GRAND AVE N
STA 380+32 - STA 380+85	106	25	28			WEEKS AVE
STA 389+10 - STA 389+68	116	30	28			CLOUGH AVE
STA 398+20 - STA 399+68	296	121	27			FISHER AVE S
STA 400+32 - STA 401+00	136	40	28			FISHER AVE N
STA 408+00 - STA 409+68	336	140	28			CATLIN AVE S
STA 410+32 - STA 411+75	286	115	28			CATLIN AVE N
STA 420+32 - STA 420+92	116	30	28			BIRCH AVE
STA 430+32 - STA 430+60	56	11	17			CYPRESS AVE
STA 438+64 - STA 439+68	208	72	32			MORTORELLI DR
STA 450+32 - STA 451+25	186	65	28			POPLAR AVE
STA 460+32 - STA 461+05	166	55	28			PINE AVE
STA 468+99 - STA 469+68	322	134	27			ELM AVE S
STA 470+32 - STA 471+00	136	30	38			ELM AVE N
STA 480+32 - STA 481+00	136	40	28			CEDAR AVE
STA 498+97 - STA 499+68	142	0	71			HILL AVE S
STA 500+32 - STA 500+78	92	13	33			HILL AVE N
PROJECT 8680-00-71 CAT 0010 TOTAL	18090	1404	7641	1	1	
PROJECT 8680-00-71						
CAT 0080						
SIDEROADS						
STA 297+72 - STA 298+80	216	108				JOHN AVE S
STA 301+25 - STA 302+17	184	92				JOHN AVE N
STA 307+80 - STA 309+05	250	125				HUGHITT AVE S
STA 311+00 - STA 312+20	240	120				HUGHITT AVE S
STA 337+75 - STA 339+00	250	125				CUMMING AVE S
STA 340+95 - STA 342+56	322	161				CUMMING AVE N
STA 347+78 - STA 348+95	234	117				BAXTER AVE S
STA 351+00 - STA 352+29	258	129				BAXTER AVE N
STA 380+85 - STA 382+50	330	165				WEEKS AVE
STA 387+25 - STA 389+10	370	185				CLOUGH AVE
STA 401+00 - STA 402+15	230	115				FISHER AVE N
STA 420+90 - STA 422+15	250	125				BIRCH AVE
STA 430+60 - STA 432+60	400	200				CYPRESS AVE
STA 437+75 - STA 438+64	178	89				MORTORELLI DR
STA 451+25 - STA 452+25	200	100				POPLAR AVE
STA 461+05 - STA 461+75	140	70				PINE AVE
STA 467+18 - STA 468+99	362	181				ELM AVE S
STA 471+00 - STA 472+15	230	115				ELM AVE N
STA 481+00 - STA 482+15	230	115				CEDAR AVE
STA 500+78 - STA 501+85	214	107				HILL AVE N
PROJECT 8680-00-71 CAT 0080 TOTAL	5088	0 2544				

CONT. CONSTRUCTION STAKING

STATION - STATION	650.4500* SUBGRADE LF	650.5000** BASE LF	650.7000 CONCRETE PAVEMENT LF	650.8500 ELECTRICAL INSTALLATIONS (PROJECT) LS	650.9910 SUPPLEMENTAL CONTROL (PROJECT) LS	REMARKS
PROJECT 8998-00-24						
CAT 0010						
SIDEROADS						
STA 327+80 - STA 329+15	270	0	135			HAMMOND AVE S
STA 357+79 - STA 358+85	212	0	106			LAMBORN AVE
STA 100+39 - STA 101+67	256	0	128			GRAND AVE S
STA 371+12 - STA 372+07	194	0	97			GRAND AVE N
STA 407+83 - STA 408+00	34	17	0			CATLIN AVE S
STA 411+75 - STA 412+50	150	75	0			CATLIN AVE N
STA 497+75 - STA 498+97	244	105	17			HILL AVE S
PROJECT 8998-00-24 CAT 0010 TOTAL	1360	197	483	0	0	
COMBINED TOTAL (BOTH PROJECTS)	**24538**	**4145**	**8124**	**1**	**1**	

*SUBGRADE QUANTITIES ARE DOUBLED TO ALLOW FOR STAKING OF THE SUBGRADE AND THE SELECT BORROW SUBBASE LAYER
**STAKING BASE IS ONLY PAID FOR BASE PLACED UNDER ASPHALT PAVEMENT, PER SPEC 650.4 (1)

SAWING

STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
PROJECT 8680-00-71				
CAT 0010				
STAGE 1				
USH 2 - MAINLINE				
STA 136+54-STA 137+27	RT	61	365	LEFT TURN ISLAND/PARKING LOT
STA 138+07-STA 140+66	RT		1960	ROADWAY
STA 138+07-STA 140+66	RT		295	SIDEWALK ALONG BUILDING
STA 142+50	RT	293	390	SIDEWALK, CURB & PARKING LOT
STA 146+15-STA 147+60	RT	27	1110	ROAD/PARKING ENT.
STA 184+10.00-STA 185+80	RT	107	1040	
STA 185+80-STA 188+74	RT		1775	
STA 188+75-STA 191+70	RT		1860	
STA 189+74-STA 191+47	RT	288		PARKING LOT
STA 191+50-STA 194+09	RT	267		ALONG BUILDING
STA 191+70-STA 196+10	RT		2570	
STA 196+40-STA 198+22	RT		1105	
STA 198+22-STA 201+45	RT		1960	
STA 201+45-STA 204+73	RT		1955	
STA 204+73-STA 208+34	RT		2146	
STA 208+24-STA 210+18	RT		1053	
SIDEROADS				
STA 438+65-STA 439+70	LT/RT		940	MORTORELLI DRIVE
STA 468+99-STA 469+70	LT/RT		975	ELM AVE-HAYES CT
STA 489+33-STA 489+70	LT/RT		340	CEDAR AVE
STA 498+99-STA 499+70	LT/RT		720	HILL AVE
STAGE 2				
USH 2 - MAINLINE				
STA 138+07-STA 140+66	LT		1960	
STA 146+15-STA 147+60	LT	264	1215	
STA 184+10.00-STA 185+80	LT		1004	
STA 185+80-STA 188+74	LT		1700	
STA 188+75-STA 191+70	LT		1675	
STA 191+70-STA 196+10	LT		2540	
STA 196+40-STA 198+22	LT		1095	
STA 198+22-STA 201+45	LT		1945	
STA 201+45-STA 204+73	LT		1955	
STA 204+73-STA 208+34	LT		2142	
STA 208+24-STA 210+18	LT		1053	
SIDEROADS				
STA 420+30-STA 420+90	LT/RT		525	BIRCH AVE
STA 430+30-STA 430+60	LT/RT		288	CYPRESS AVE
STA 450+30-STA 451+25	LT/RT		800	POPLAR AVE
STA 460+38-STA 461+05	LT/RT		650	PINE AVE
STA 470+34-STA 471+00	LT/RT		475	ELM AVE
STA 480+35-STA 481+00	LT/RT		625	CEDAR AVE
STA 500+31-STA 500+80	LT/RT		350	HILL AVE
STAGE 3				
USH 2 - MAINLINE				
STA 138+07-STA 140+66	LT		655	
STA 146+15-STA 147+60	LT		375	
STA 184+10.00-STA 185+80	LT		422	
STA 185+80-STA 188+74	LT		739	
STA 188+75-STA 191+70	LT		739	
STA 191+70-STA 196+10	LT		1120	
STA 196+40-STA 198+22	LT		460	
STA 198+22-STA 201+45	LT		820	
STA 201+45-STA 204+73	LT		1480	
STA 204+73-STA 208+34	LT		888	
STA 208+24-STA 210+18	LT		814	
SHEET SUBTOTAL		1307	53068	

SAWING

STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
STAGE 4				
USH 2 - MAINLINE				
STA 147+60-STA 148+92	RT		975	
STA 148+92-STA 152+61	RT		2985	
STA 152+61-STA 156+47	RT	32	3180	
STA 156+48-STA 160+31	RT	245	3116	
STA 160+31-STA 164+02	RT		2990	
STA 164+02-STA 167+74	RT	185	2860	
STA 167+74-STA 171+41	RT	173	2985	
STA 171+41-STA 174+12	RT		1815	
STA 174+12-STA 178+80	RT	261	1935	
STA 178+80-STA 182+55	RT	225	2165	
STA 182+54-STA 184+10	RT	107	950	
SIDEROADS				
STA 298+80-STA 299+70	LT/RT	113	628	JOHN AVE
STA 309+05-STA 309+70	LT/RT	35	420	HUGITT AVE
STA 329+15-STA 329+62	LT/RT		810	HAMMOND AVE
STA 339+00-STA 339+64	LT/RT		530	CUMMING AVE
STA 348+95-STA 349+62	LT/RT		575	BAXTER AVE
STA 358+80-STA 359+60	LT/RT		890	LAMBORN AVE
STA 389+10-STA 389+76	LT/RT		488	CLOUGH AVE
STA 407+99-STA 409+62	LT/RT	20	1910	CATLIN AVE
STAGE 5				
USH 2 - MAINLINE				
STA 147+60-STA 148+92	LT		800	
STA 148+92-STA 152+61	LT		3235	
STA 148+92-STA 152+61	LT	75	275	SIDEWALK,DRIVEWAY ENT.
STA 152+61-STA 156+47	LT		3100	
STA 152+61-STA 156+47	LT		175	ALONG BUILDINGS
STA 156+48-STA 160+31	LT		3350	
STA 160+31-STA 164+02	LT	146	2860	
STA 164+02-STA 167+74	LT		1950	
STA 165+43-STA 166+22	LT		90	
STA 167+74-STA 171+41	LT		2975	
STA 167+74-STA 171+41	LT	433		PARKING LOT
STA 171+41-STA 174+12	LT		1625	
STA 174+12-STA 178+80	LT		2965	
STA 174+12-STA 178+80	LT	306		PARKING LOT
STA 178+80-STA 182+55	LT		2150	
STA 182+54-STA 184+10	LT		985	
STA 182+54-STA 184+11	LT	278		PARKING LOT
SIDEROADS				
STA 300+30-STA 301+25	LT/RT		837	JOHN AVE
STA 310+37-STA 311+00	LT/RT		425	HUGITT AVE
STA 330+37-STA 331+00	LT/RT		1105	HAMMOND AVE
STA 340+30-STA 340+95	LT/RT		650	CUMMING AVE
STA 350+38-STA 351+00	LT/RT		645	BAXTER AVE
STA 370+38-STA 371+10	LT/RT		1020	GRAND AVE
STA 380+37-STA 380+82	LT/RT		450	WEEKS AVE
STA 400+30-STA 401+00	LT/RT		670	FISHER AVE
STA 410+45-STA 411+75	LT/RT		1210	CATLIN AVE
STAGE 6				
USH 2 - MAINLINE				
STA 147+60-STA 148+92	LT/RT		325	
STA 148+92-STA 152+61	LT/RT		935	
STA 152+61-STA 156+47	LT/RT		1050	
STA 156+48-STA 160+31	LT/RT		964	
STA 160+31-STA 164+02	LT/RT		920	
STA 165+43-STA 166+22	LT/RT		915	
STA 167+74-STA 171+41	LT/RT		930	
STA 171+41-STA 174+12	LT/RT		392	
STA 174+12-STA 178+80	LT/RT		915	
STA 178+80-STA 182+55	LT/RT		920	
STA 182+54-STA 184+10	LT/RT		396	
SHEET SUBTOTAL		2634	74416	
8680-00-71 CAT 0010 TOTAL		**3941**	**127484**	

SAWING

STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
PROJECT 8680-00-71				
CAT 0080				
STAGE 1				
SIDEROADS				
STA 437+75-STA 438+65	LT/RT		875	MORTORELLI DRIVE
STA 467+18-STA 469+00	LT/RT		1375	ELM AVE
STA 498+80-STA 499+00	LT/RT		200	HILL AVE
STAGE 2				
SIDEROADS				
STA 420+90-STA 422+14	LT/RT		1140	BIRCH AVE
STA 430+60-STA 432+60	LT/RT		1080	CYPRESS AVE
STA 451+25-STA 452+25	LT/RT		705	POPLAR AVE
STA 461+05-STA 461+74	LT/RT		575	PINE AVE
STA 481+00-STA 4852+15	LT/RT		1050	CEDAR AVE
STA 500+80-STA 501+85	LT/RT		600	HILL AVE
STAGE 4				
SIDEROADS				
STA 297+72-STA 298+80	LT/RT	150	760	JOHN AVE
STA 307+78-STA 309+05	LT/RT	40	875	HUGHITT AVE
STA 337+88-STA 339+00	LT/RT	90	570	CUMMING AVE
STA 347+78-STA 348+95	LT/RT	50	800	BAXTER AVE
STA 387+25-STA 389+10	LT/RT	125	1400	CLOUGH AVE
STA 407+83-STA 408+00	LT/RT		246	CATLIN AVE
STAGE 5				
SIDEROADS				
STA 301+25-STA 302+17	LT/RT		708	JOHN AVE
STA 311+00-STA 312+19	LT/RT	20	810	HUGITT AVE
STA 340+95-STA 342+54	LT/RT	100	1300	CUMMING AVE
STA 351+00-STA 352+30	LT/RT		1110	BAXTER AVE
STA 380+85-STA 382+50	LT/RT		1500	WEEKS AVE
STA 401+00-STA 402+15	LT/RT		840	FISHER AVE
8680-00-71 CAT 0080 TOTAL		**575**	**18519**	
PROJECT 8998-00-24				
CAT 0010				
STAGE 4				
STA 327+80 - STA 329+15	LT&RT	115	2087	HAMMOND AVE
STA 375+79 - STA 358+85	LT&RT	125	2270	LAMBORN AND S GRAND AVE
STA 407+83 - STA 408+00	LT&RT	3	18	CATLIN AVE SOUTH
STA 497+29 - STA 498+99	LT&RT	44	5	HILL AVE SOUTH
STAGE 5				
STA 371+10 - STA 372+07	LT&RT		1250	GRAND AVE NORTH
STA 411+75 - STA 412+50	LT&RT	36	450	CATLIN AVE NORTH
8998-00-24 CAT 0010 TOTAL		**323**	**6080**	
COMBINED PROJECT TOTAL		**4839**	**152083**	

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VAULT ABANDONMENT AND STABILIZATION

STATION	LOCATION	* SPV.0035.001 FLOWABLE FILL CY	SPV.0060.084 150+50 LT EACH	SPV.0060.085 151+60 LT EACH
PROJECT 8680-00-71				
CAT 0010				
150+50	LT - BELKNAP ELECTRIC	29	1	
151+60	LT - ELKS LODGE	90		1
PROJECT 8680-00-71 CAT 0010 TOTAL		**119**	**1**	1

* QUANTITY ALSO SHOWN ELSEWHERE.

SEISMOGRAPH / VIBRATION MONITORING

STATION	LOCATION	SPV.0045.002 DAY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1-3			
135+28 - 147+90	LT/RT	180	UNDISTRIBUTED
184+60 - 210+18			
STAGE 4-7			
147+90 - 184+60	LT/RT	320	UNDISTRIBUTED
PROJECT 8680-00-71 CAT 0010 TOTAL		**500**	

TEMPORARY PEDESTRIAN ACCESS - ISOLATED

STATION		LOCATION	SPV.0060.086 TEMPORARY PEDESTRIAN ACCESS - ISOLATED EACH
CAT. 0010			
STAGE 1			
139+50	RT	BELKNAP ST	1
139+82	RT	BELKNAP ST	1
140+28	RT	BELKNAP ST	1
140+87	RT	TOWER AVE	1
143+28	RT	BELKNAP ST	1
191+68	RT	BELKNAP ST	1
192+30	RT	BELKNAP ST	1
192+87	RT	BELKNAP ST	1
193+45	RT	BELKNAP ST	1
		UNDISTRIBUTED	1
		STAGE 1 TOTAL	10
STAGE 2			
142+55	LT	BELKNAP ST	1
142+79	LT	BELKNAP ST	1
143+73	LT	BELKNAP ST	1
185+35	LT	BELKNAP ST	1
189+35	LT	BELKNAP ST	1
198+55	LT	PINE AVE	1
200+25	LT	BELKNAP ST	1
201+90	LT	ELM AVE	1
		UNDISTRIBUTED	1
		STAGE 2 TOTAL	9
STAGE 4			
161+72	RT	BELKNAP ST	1
161+97	RT	BELKNAP ST	1
163+26	RT	BELKNAP ST	1
163+57	RT	BELKNAP ST	1
164+47	RT	BELKNAP ST	1
164+99	RT	BELKNAP ST	1
165+75	RT	BELKNAP ST	1
173+35	RT	BELKNAP ST	1
		UNDISTRIBUTED	1
		STAGE 4 TOTAL	9
STAGE 5			
153+26	RT	HUGHITT AVE	1
153+64	RT	HUGHITT AVE	1
153+96	RT	BELKNAP ST	1
155+78	RT	BELKNAP ST	1
155+92	RT	BELKNAP ST	1
156+02	RT	HAMMOND AVE	2
157+55	RT	BELKNAP ST	1
157+94	RT	BELKNAP ST	1
158+53	RT	BELKNAP ST	1
159+70	RT	BELKNAP ST	1
171+75	LT	WEEKS AVE	1
172+27	LT	BELKNAP ST	1
		UNDISTRIBUTED	1
		STAGE 5 TOTAL	14
STAGE 6			
149+60	LT	BELKNAP ST	1
151+89	LT	BELKNAP ST	1
153+08	LT	BELKNAP ST	1
153+82	LT	BELKNAP ST	1
155+30	LT	BELKNAP ST	1
		UNDISTRIBUTED	1
		STAGE 6 TOTAL	6
		PROJECT TOTAL	48

UTILITY LINE OPENING (ULO)

STATION	LOCATION	SPV.0060.091 EACH	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1-3			
135+28 - 147+90	LT/RT	30	UNDISTRIBUTED
184+60 - 210+18			
STAGE 4-7			
147+90 - 184+60	LT/RT	30	UNDISTRIBUTED
PROJECT 8680-00-71 CAT 0010 TOTAL		**60**	

STREET SWEEPING

STATION TO STATION	LOCATION	SPV.0075.001 HRS
PROJECT 8680-00-71		
CAT 0010		
STAGE 1-3		
135+28 - 210+18	LT/RT	160
STAGE 4-7		
135+28 - 210+18	LT/RT	160
UNDISTRIBUTED		24
PROJECT 8680-00-71 CAT 0010 TOTA		**344**

STREET SIGN BRACKET*

STATION	LOCATION	SPV.0060.080 EACH
PROJECT 8680-00-71		
CAT 0080		
BANKS AVE INTERSECTION	NW/SE QUADRANT	4
TOWER AVE INTERSECTION	NW/SE QUADRANT	4
OGDEN AVE INTERSECTION	NW/SE QUADRANT	4
JOHN AVE INTERSECTION	NW/SE QUADRANT	4
HUGHITT AVE INTERSECTION	NW/SE QUADRANT	4
HAMMOND AVE INTERSECTION	NW/SE QUADRANT	4
CUMMING AVE INTERSECTION	NW/SE QUADRANT	4
BAXTER AVE INTERSECTION	NW/SE QUADRANT	4
GRAND/LAMBORN AVE INTERSECTION	NW/SE QUADRANT	4
WEEKS AVE INTERSECTION	NW QUADRANT	2
CLOUGH AVE INTERSECTION	SE QUADRANT	2
FISHER AVE INTERSECTION	NW QUADRANT	2
CATLIN AVE INTERSECTION	NW/SE QUADRANT	4
BIRCH AVE INTERSECTION	NW QUADRANT	2
CYPRESS AVE INTERSECTION	NW QUADRANT	2
MORTERELLI DRIVE INTERSECTION	SE QUADRANT	2
POPLAR AVE INTERSECTION	NW QUADRANT	2
PINE AVE INTERSECTION	NW QUADRANT	2
ELM AVE INTERSECTION	NW/SE QUADRANT	4
CEDAR AVE INTERSECTION	NW QUADRANT	2
HILL AVE INTERSECTION	NW/SE QUADRANT	4
PROJECT 8680-00-71 CAT 0080 TOTAL		**66**

*MOUNTED ON LIGHT POLE IN CORNER OF INTERSECTION

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PROTECTING TREES

STATION	LOCATION	SPV. 0060.083 EACH	REMARKS
PROJECT 8680-00-71			
CAT 0010			
167+10	Belknap St. 60 LT	1	Crab tree
	CAT 0010 TOTAL	1	

STATION	LOCATION	EACH	REMARKS
PROJECT 8680-00-71			
CAT 0080			
468+05	Elm Ave. 40 RT	1	Pine
468+30	Elm Ave. 40 RT	1	Pine
468+95	Elm Ave. 45 RT	1	Red maple
469+00	Elm Ave. 65 RT	1	Birch Trees
471+05	Elm Ave. 35 RT	1	Maple
471+55	Elm Ave. 40 RT	1	Maple
472+10	Elm Ave. 35 RT	1	Maple
342+07	Cumming Ave. 38 RT	1	Crab tree
	CAT 0080 TOTAL	8	
	PROJECT 8680-00-71 TOTAL	9	

STATION	LOCATION	SPV. 0060.083 EACH	REMARKS
PROJECT 8998-00-24			
CAT 0010			
498+85	Hill Ave. 45 LT	1	Red maple
	PROJECT 8998-00-24 TOTAL	1	

REMOVE AND RESET EXISTING COMPASS

STATION	LOCATION	SPV.0105.071 LS
PROJECT 8680-00-71		
CAT 0010		
STAGE 1		
141+94	58' RT	1
PROJECT 8680-00-71 CAT 0010 TOTAL		**1**

CONCRETE CURB MEDIAN 3-INCH SLOPED

STATION	LOCATION	SPV.0165.009 SF	SPV.0165.004 CURE AND SEAL TREATMENT SF
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
686+49 - 687+51	TOWER AVE SOUTH	612	612
STAGE 2			
688+68 - 689+57	TOWER AVE NORTH	534	534
PROJECT 8680-00-71 CAT 0010 TOTAL		**1146**	**1146**

CONCRETE CURE AND SEAL PCC SAW CUTS

STATION - STATION	LOCATION	SPV.0090.021 LF
PROJECT 8680-00-71		
CAT 0010		
STAGE 1		
USH 2 - MAINLINE		
STA 138+03 - STA 140+85	RT	880
STA 146+15 - STA 147+60	RT	510
STA 184+60 - STA 189+15	RT	1830
STA 189+15 - STA 195+99	RT	2720
STA 196+60 - STA 201+44	RT	1940
STA 201+44 - STA 208+33	RT	2730
STA 208+33 - STA 210+18	RT	800
PROJECT 8680-00-71 CAT 0010 STAGE 1 TOTAL		11410
STAGE 2		
USH 2 - MAINLINE		
STA 138+03 - STA 140+85	LT	880
STA 146+15 - STA 147+60	LT	510
STA 184+60 - STA 185+79	LT	560
STA 185+79 - STA 188+74	LT	1240
STA 188+74 - STA 191+70	LT	1240
STA 191+70 - STA 195+99	LT	1750
STA 196+60 - STA 198+21	LT	730
STA 198+21 - STA 201+46	LT	1350
STA 201+46 - STA 204+75	LT	1360
STA 204+75 - STA 208+33	LT	1470
STA 208+33 - STA 210+18	LT	800
PROJECT 8680-00-71 CAT 0010 STAGE 2 TOTAL		11890
STAGE 3		
USH 2 - MEDIAN		
STA 138+03 - STA 140+85	CL	230
STA 184+60 - STA 186+00	CL	110
STA 187+50 - STA 188+74	CL	100
STA 188+74 - STA 191+70	CL	240
STA 191+70 - STA 195+15	CL	280
STA 197+43 - STA 198+21	CL	60
STA 198+21 - STA 201+46	CL	260
STA 201+46 - STA 205+15	CL	300
STA 206+90 - STA 208+33	CL	120
STA 208+33 - STA 210+18	CL	140
PROJECT 8680-00-71 CAT 0010 STAGE 3 TOTAL		1840
STAGE 4		
USH 2 - MAINLINE		
STA 147+60 - STA 148+92	RT	470
STA 148+92 - STA 152+62	RT	1520
STA 152+62 - STA 156+47	RT	1580
STA 156+47 - STA 160+32	RT	1580
STA 160+32 - STA 164+02	RT	1520
STA 164+02 - STA 167+73	RT	1530
STA 167+73 - STA 174+10	RT	2520
STA 174+10 - STA 178+70	RT	1870
STA 178+70 - STA 182+53	RT	1580
STA 182+53 - STA 184+60	RT	900
HAMMOND AVE S		
STA 329+15 - STA 329+41	LT/RT	260
LAMBORN AVE S		
STA 358+85 - STA 359+35	LT/RT	380
PROJECT 8680-00-71 CAT 0010 STAGE 4 TOTAL		15710

CONCRETE CURE AND SEAL PCC SAW CUTS

STATION - STATION	LOCATION	SPV.0090.021 LF
STAGE 5		
USH 2 - MAINLINE		
STA 147+60 - STA 148+92	LT	470
STA 148+92 - STA 152+62	LT	1520
STA 152+62 - STA 156+47	LT	1580
STA 156+47 - STA 160+32	LT	1580
STA 160+32 - STA 164+02	LT	1520
STA 164+02 - STA 167+73	LT	1530
STA 167+73 - STA 171+43	LT	1520
STA 171+43 - STA 178+83	LT	2910
STA 178+83 - STA 182+53	LT	1520
STA 182+53 - STA 184+60	LT	900
PROJECT 8680-00-71 CAT 0010 STAGE 5 TOTAL		15050
PROJECT 8680-00-71		
CAT 0010		
STAGE 6		
USH 2 - MEDIAN		
STA 146+15 - STA 146+95	LT/RT	60
STA 148+76 - STA 150+49	LT/RT	140
STA 151+08 - STA 156+47	LT/RT	430
STA 156+47 - STA 160+32	LT/RT	310
STA 160+32 - STA 164+18	LT/RT	310
STA 165+08 - STA 167+73	LT/RT	220
STA 167+73 - STA 169+72	LT/RT	160
STA 170+36 - STA 171+78	LT/RT	110
STA 172+35 - STA 173+02	LT/RT	50
STA 173+75 - STA 176+40	LT/RT	220
STA 177+25 - STA 184+60	LT/RT	590
PROJECT 8680-00-71 CAT 0010 STAGE 6 TOTAL		2600
PROJECT 8680-00-71 CAT 0010 TOTAL		58500
PROJECT 8998-00-24		
CAT 0010		
STAGE 4		
HAMMOND AVE S		
STA 327+80 - STA 329+15	LT/RT	310
GRAND AVE S		
STA 100+39 - STA 101+67	LT/RT	150
LAMBORN AVE S		
STA 357+79 - STA 358+85	LT/RT	220
PROJECT 8998-00-24 CAT 0010 STAGE 4 TOTAL		680
PROJECT 8998-00-24 CAT 0010 TOTAL		680
ITEM TOTAL		59180

BRUSH PATTERN AND COLORING OF CONCRETE SIDEWALK 6-INCH

STATION - STATION	SPV.0165.001 BRUSH AND COLOR SF	SPV.0165.005 CURE & SEAL SF
PROJECT 8680-00-71		
CAT 0080		
STAGE 1		
BANKS AVE INTERSECTION SOUTH	1826	1826
TOWER AVE INTERSECTION SOUTH	2472	2472
OGDEN AVE INTERSECTION SOUTH	2167	2167
MORTORELLI DR INTERSECTION SOUTH	2216	2216
ELM AVE INTERSECTION SOUTH	959	959
HILL AVE SOUTH	2103	2103
CAT 0080 STAGE 1 TOTAL	11743	11743
STAGE 2		
BANKS AVE INTERSECTION NORTH	1826	1826
TOWER AVE INTERSECTION NORTH	2472	2472
OGDEN AVE INTERSECTION NORTH	2167	2167
BIRCH AVE INTERSECTION NORTH	2093	2093
CYPRESS AVE INTERSECTION NORTH	1282	1282
POPLAR AVE INTERSECTION NORTH	1519	1519
PINE AVE INTERSECTION NORTH	1722	1722
ELM AVE INTERSECTION NORTH	959	959
CEDAR AVE INTERSECTION NORTH	2200	2200
HILL AVE INTERSECTION NORTH	2103	2103
CAT 0080 STAGE 2 TOTAL	18343	18343
STAGE 3		
USH 2 - MEDIAN		
STA 186+07 - STA 187+47	845	845
STA 195+17 - STA 196+16	410	410
STA 196+42 - STA 197+41	654	654
STA 198+54 - STA 198+74	48	48
STA 205+21 - STA 206+87	1035	1035
CAT 0080 STAGE 3 TOTAL	2992	2992
STAGE 4		
JOHN AVE INTERSECTION SOUTH	2383	2383
HUGHITT AVE INTERSECTION SOUTH	2834	2834
HAMMOND AVE INTERSECTION SOUTH	2225	2225
CUMMING AVE INTERSECTION SOUTH	2108	2108
BAXTER AVE INTERSECTION SOUTH	2540	2540
LAMBORN AVE INTERSECTION SOUTH	2786	2786
CLOUGH AVE INTERSECTION SOUTH	2459	2459
CATLIN AVE INTERSECTION SOUTH	2011	2011
CAT 0080 STAGE 4 TOTAL	19346	19346
STAGE 5		
JOHN AVE INTERSECTION NORTH	2383	2383
HUGHITT AVE INTERSECTION NORTH	2834	2834
HAMMOND AVE INTERSECTION NORTH	2225	2225
CUMMING AVE INTERSECTION NORTH	2108	2108
BAXTER AVE INTERSECTION NORTH	2540	2540
GRAND AVE INTERSECTION NORTH	2786	2786
WEEKS AVE INTERSECTION NORTH	1188	1188
FISHER AVE INTERSECTION NORTH	3016	3016
CATLIN AVE INTERSECTION NORTH	2011	2011
CAT 0080 STAGE 5 TOTAL	21091	21091
STAGE 6		
USH 2 - MEDIAN		
STA 146+97 - STA 148+52	1092	1092
STA 150+49 - STA 151+04	275	275
STA 164+22 - STA 165+04	445	445
STA 169+76 - STA 170+32	290	290
STA 171+81 - STA 172+31	311	311
STA 173+08 - STA 173+70	339	339
STA 176+45 - STA 177+21	382	382
CAT 0080 STAGE 6 TOTAL	3134	3134
PROJECT 8680-00-71 CAT 0080 TOTAL	**76649**	**76649**

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TEMPORARY PEDESTRIAN ACCESS - BELKNAP

STATION	STATION	LOCATION	SPV.0165.006 TEMPORARY PEDESTRIAN ACCESS - BELKNAP SF
CAT. 0010			
STAGE 1			
137+75 -	141+00	USH 2 NORTH SIDE	1625
141+75 -	145+00	USH 2 NORTH SIDE	1625
145+45 -	148+70	USH 2 NORTH SIDE	1625
182+75 -	185+55	USH 2 NORTH SIDE	1400
186+04 -	188+46	USH 2 NORTH SIDE	1210
189+00 -	191+40	USH 2 NORTH SIDE	1200
191+98 -	197+92	USH 2 NORTH SIDE	2970
198+48 -	201+22	USH 2 NORTH SIDE	1370
201+75 -	204+45	USH 2 NORTH SIDE	1350
205+00 -	208+15	USH 2 NORTH SIDE	1575
208+70 -	210+20	USH 2 NORTH SIDE	750
		UNDISTRIBUTED	500
		STAGE 1 TOTAL	17200
STAGE 2			
137+80 -	141+00	USH 2 SOUTH SIDE	1600
141+75 -	145+00	USH 2 SOUTH SIDE	1625
145+45 -	148+70	USH 2 SOUTH SIDE	1625
182+80 -	188+82	USH 2 SOUTH SIDE	3010
189+48 -	201+22	USH 2 SOUTH SIDE	5870
201+66 -	207+96	USH 2 SOUTH SIDE	3150
205+00 -	208+15	USH 2 SOUTH SIDE	1575
208+54 -	210+20	USH 2 SOUTH SIDE	830
		UNDISTRIBUTED	500
		STAGE 2 TOTAL	19785
STAGE 3			
		UNDISTRIBUTED	500
		STAGE 3 TOTAL	500
STAGE 4			
160+55	163+75	USH 2 NORTH SIDE	1600
164+25	167+40	USH 2 NORTH SIDE	1575
168+05	171+20	USH 2 NORTH SIDE	1575
171+70	178+55	USH 2 NORTH SIDE	3425
179+15	182+30	USH 2 NORTH SIDE	1575
182+80	185+40	USH 2 NORTH SIDE	1300
		UNDISTRIBUTED	500
		STAGE 4 TOTAL	11550
STAGE 5			
147+50	148+65	USH 2 NORTH SIDE	575
149+15	152+45	USH 2 NORTH SIDE	1650
152+80	156+10	USH 2 NORTH SIDE	1650
156+82	160+10	USH 2 NORTH SIDE	1640
160+55	163+85	USH 2 SOUTH SIDE	1650
164+20	167+50	USH 2 SOUTH SIDE	1650
168+05	173+85	USH 2 SOUTH SIDE	2900
174+35	178+50	USH 2 SOUTH SIDE	2075
178+95	182+25	USH 2 SOUTH SIDE	1650
182+80	185+40	USH 2 SOUTH SIDE	1300
		UNDISTRIBUTED	500
		STAGE 5 TOTAL	17240
STAGE 6			
145+50	148+70	USH 2 SOUTH SIDE	1600
149+10	152+45	USH 2 SOUTH SIDE	1675
152+80	156+15	USH 2 SOUTH SIDE	1675
156+82	160+20	USH 2 SOUTH SIDE	1690
160+55	163+85	USH 2 SOUTH SIDE	1650
164+20	167+50	USH 2 SOUTH SIDE	1650
168+05	171+10	USH 2 SOUTH SIDE	1525
		UNDISTRIBUTED	500
		STAGE 6 TOTAL	11965
STAGE 7			
		UNDISTRIBUTED	500
		STAGE 7 TOTAL	500
PROJECT TOTAL			78740

TEMPORARY PEDESTRIAN ACCESS - INTERSECTION

LOCATION	SPV.0165.007 TEMPORARY PEDESTRIAN ACCESS - INTERSECTION SF	COMMENT
CAT. 0010		
YEAR 1		
BANKS AVE	470	WEST SIDE
BANKS AVE	370	EAST SIDE
BANKS AVE	325	SOUTH SIDE
BANKS AVE	200	NORTH SIDE (EAST OF ISLAND)
TOWER AVE	375	WEST SIDE
TOWER AVE	375	EAST SIDE
TOWER AVE	375	SOUTH SIDE
TOWER AVE	375	NORTH SIDE
OGDEN AVE	325	WEST SIDE
OGDEN AVE	325	EAST SIDE
OGDEN AVE	225	SOUTH SIDE
OGDEN AVE	225	NORTH SIDE
JOHN AVE	325	WEST SIDE
CATLIN AVE	325	EAST SIDE
BIRCH AVE	210	NORTH SIDE
CYPRESS AVE	275	WEST SIDE
CYPRESS AVE	240	NORTH SIDE
MORTORELLI DR	200	SOUTH SIDE
POPLAR AVE	250	NORTH SIDE
PINE AVE	250	NORTH SIDE
PINE AVE	285	EAST SIDE
ELM AVE	250	NORTH SIDE
ELM AVE	300	EAST SIDE
ELM AVE	170	SOUTH SIDE
CEDAR AVE	225	NORTH SIDE
CEDAR AVE	300	EAST SIDE
HILL AVE	300	WEST SIDE
HILL AVE	265	EAST SIDE
HILL AVE	275	SOUTH SIDE
HILL AVE	225	NORTH SIDE
UNDISTRIBUTED	300	
YEAR 1 TOTAL	8935	
YEAR 2		
JOHN AVE	310	EAST SIDE
JOHN AVE	225	SOUTH SIDE
JOHN AVE	250	NORTH SIDE
HUGHITT AVE	300	WEST SIDE
HUGHITT AVE	300	EAST SIDE
HUGHITT AVE	150	SOUTH SIDE
HUGHITT AVE	150	NORTH SIDE
HAMMOND AVE	325	WEST SIDE
HAMMOND AVE	375	EAST SIDE
HAMMOND AVE	350	SOUTH SIDE
HAMMOND AVE	325	NORTH SIDE
CUMMING AVE	325	WEST SIDE
CUMMING AVE	325	EAST SIDE
CUMMING AVE	225	SOUTH SIDE
CUMMING AVE	200	NORTH SIDE
BAXTER AVE	325	WEST SIDE
BAXTER AVE	325	EAST SIDE
BAXTER AVE	200	SOUTH SIDE
BAXTER AVE	210	NORTH SIDE
LAMBORN-GRAND AVE	325	WEST SIDE
LAMBORN-GRAND AVE	350	EAST SIDE
LAMBORN AVE	275	SOUTH SIDE
GRAND AVE	315	NORTH SIDE
WEEKS AVE	325	WEST SIDE
WEEKS AVE	210	NORTH SIDE
CLOUGH AVE	300	WEST SIDE
CLOUGH AVE	210	SOUTH SIDE
FISHER AVE	250	NORTH SIDE
CATLIN AVE	325	WEST SIDE
CATLIN AVE	250	SOUTH SIDE
CATLIN AVE	250	NORTH SIDE
UNDISTRIBUTED	300	
YEAR 2 TOTAL	8880	
PROJECT TOTAL	17815	

CONCRETE PAVEMENT 10-INCH SPECIAL

STATION - STATION	LOCATION	SPV.0180.001 SY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 1			
USH 2 - MAINLINE			
STA 136+90 - STA 137+27	RT	130	BANKS AVE S TURN LANE
STA 137+76 - STA 141+08	RT	951	
STA 142+93 - STA 144+43	RT	110	BUS PULL OUT
STA 146+15 - STA 147+60	RT	419	
STA 184+60 - STA 189+15	RT	1455	
STA 189+15 - STA 195+99	RT	2135	
STA 196+60 - STA 201+44	RT	1519	
STA 201+44 - STA 208+33	RT	2338	
STA 208+33 - STA 210+18	RT	704	
CAT 0010 STAGE 1 TOTAL		9761	
STAGE 2			
USH 2 - MAINLINE			
STA 136+54 - STA 137+37	LT	189	BANKS AVE N TURN LANE
STA 137+50 - STA 141+06	LT	1017	
STA 146+15 - STA 147+60	LT	529	
STA 184+60 - STA 185+79	LT	410	
STA 185+79 - STA 188+74	LT	959	
STA 188+74 - STA 191+70	LT	997	
STA 191+70 - STA 195+99	LT	1352	
STA 196+60 - STA 198+21	LT	517	
STA 198+21 - STA 201+46	LT	1123	
STA 201+46 - STA 204+75	LT	1120	
STA 204+75 - STA 208+33	LT	1193	
STA 208+33 - STA 210+18	LT	512	
CAT 0010 STAGE 2 TOTAL		9918	
STAGE 3			
USH 2 - MEDIAN			
STA 138+03 - STA 140+85	CL	376	
STA 184+60 - STA 185+79	CL	159	
STA 185+79 - STA 188+74	CL	208	
STA 188+74 - STA 191+70	CL	394	
STA 191+70 - STA 195+99	CL	515	
STA 196+60 - STA 198+21	CL	132	
STA 198+21 - STA 201+46	CL	403	
STA 201+46 - STA 204+75	CL	439	
STA 204+75 - STA 208+33	CL	132	
STA 208+33 - STA 210+18	CL	245	
CAT 0010 STAGE 3 TOTAL		3003	
STAGE 4			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	RT	447	
STA 148+92 - STA 152+62	RT	1310	
STA 152+62 - STA 156+47	RT	1399	
STA 156+47 - STA 160+32	RT	1391	
STA 160+32 - STA 164+02	RT	1300	
STA 164+02 - STA 167+73	RT	1325	
STA 167+73 - STA 174+10	RT	2172	
STA 174+10 - STA 178+70	RT	1603	
STA 178+70 - STA 182+53	RT	1277	
STA 182+53 - STA 184+60	RT	691	
CAT 0010 STAGE 4 TOTAL		12915	
STAGE 5			
USH 2 - MAINLINE			
STA 147+60 - STA 148+92	LT	441	
STA 148+92 - STA 152+62	LT	1302	
STA 152+62 - STA 156+47	LT	1373	
STA 156+47 - STA 160+32	LT	1382	
STA 160+32 - STA 164+02	LT	1293	
STA 164+02 - STA 167+73	LT	1353	
STA 167+73 - STA 171+43	LT	1367	
STA 171+43 - STA 178+83	LT	2673	
STA 178+83 - STA 182+53	LT	1252	
STA 182+53 - STA 184+60	LT	693	
CAT 0010 STAGE 5 TOTAL		13129	

CONT. CONCRETE PAVEMENT 10-INCH SPECIAL

STATION - STATION	LOCATION	SPV.0180.001 SY	REMARKS
STAGE 6			
USH 2 - MEDIAN			
STA 146+15 - STA 148+92	LT/RT	137	
STA 148+92 - STA 152+62	LT/RT	420	
STA 152+62 - STA 156+47	LT/RT	513	
STA 156+47 - STA 160+32	LT/RT	514	
STA 160+32 - STA 164+02	LT/RT	494	
STA 164+02 - STA 167+73	LT/RT	386	
STA 167+73 - STA 171+43	LT/RT	419	
STA 171+43 - STA 174+10	LT/RT	150	
STA 174+10 - STA 178+83	LT/RT	533	
STA 178+83 - STA 182+53	LT/RT	493	
STA 182+53 - STA 184+60	LT/RT	275	
CAT 0010 STAGE 6 TOTAL		4334	
PROJECT 8680-00-71 CAT 0010 TOTAL		53060	

CONCRETE PAVEMENT 9-INCH SPECIAL

STATION - STATION	LOCATION	SPV.0180.002 SY	REMARKS
PROJECT 8680-00-71			
CAT 0010			
STAGE 4			
STA 329+15 - STA 329+41	LT/RT	169	HAMMOND AVE S
STA 358+85 - STA 359+35	LT/RT	244	LAMBORN S
CAT 0010 STAGE 4 TOTAL		413	
STAGE 5			
STA 330+59 - STA 331+00	LT/RT	273	HAMMOND AVE N
CAT 0010 STAGE 5 TOTAL		273	
PROJECT 8680-00-71 CAT 0010 TOTAL		686	
PROJECT 8998-00-24			
STAGE 4			
STA 327+80 - STA 329+15	LT/RT	920	HAMMOND S
STA 100+39 - STA 101+67	LT/RT	410	GRAND AVE S
STA 357+79 - STA 358+85	LT/RT	561	LAMBORN S
PROJECT 8998-00-24 STAGE 4 TOTAL		1891	
PROJECT 8998-00-24 TOTAL		1891	
COMBINED TOTAL (BOTH PROJECTS)		**2577**	

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VIBRATION ABATEMENT QUANTITIES

EXCAVATION COMMON

STATION	TO	STATION	LOCATION	* 205.0100 CY	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
205+63	-	205+88	LT	28	OPTION BA-10-3
206+00	-	206+25	LT	23	OPTION BA-5-5
207+40	-	207+65	LT	46	OPTION BA-10-5
209+44	-	209+69	RT	23	OPTION SC-5-5
209+91	-	210+16	RT	46	OPTION SC-10-5
208+70	-	208+95	LT	46	OPTION T-10-5
209+21	-	209+46	LT	5	OPTION PA-5-5
PROJECT 8680-00-71 CAT 0010 TOTAL				218	

QUANTITY ALSO SHOWN ELSEWHERE.

SELECT CRUSHED MATERIAL

STATION	TO	STATION	LOCATION	312.0115 CY	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
209+44		209+69	RT	19	OPTION SC-5-5
209+91		210+16	RT	37	OPTION SC-10-5
PROJECT 8680-00-71 CAT 0010 TOTAL				56	

QUANTITY ALSO SHOWN ELSEWHERE.

TOPSOIL

STATION	STATION	LOCATION	625.0105 CY	REMARKS
PROJECT 8680-00-71				
CAT 0010				
STAGE 1-2				
205+63	205+88	LT	5	OPTION BA-10-3
206+00	206+25	LT	2	OPTION BA-5-5
207+40	207+65	LT	5	OPTION BA-10-5
209+21	209+46	LT	2	OPTION PA-5-5
209+44	209+69	RT	2	OPTION SC-5-5
209+91	210+16	RT	5	OPTION SC-10-5
PROJECT 8680-00-71 CAT 0010 TOTAL			21	

QUANTITY ALSO SHOWN ELSEWHERE.

BASE AGGREGATE DENSE 3/4-INCH

STATION	TO	STATION	LOCATION	305.0115 CY	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
205+63	-	205+88	LT	5	OPTION BA-10-3
206+00	-	206+25	LT	2	OPTION BA-5-5
207+40	-	207+65	LT	5	OPTION BA-10-5
209+21	-	209+46	LT	2	OPTION PA-5-5
209+44	-	209+69	RT	2	OPTION SC-5-5
209+91	-	210+16	RT	5	OPTION SC-10-5
PROJECT 8680-00-71 CAT 0010 TOTAL				21	

QUANTITY ALSO SHOWN ELSEWHERE.

PIPE UNDERDRAIN UNPERFORATED 6-INCH

STATION	TO	STATION	LOCATION	612.0206 LF	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
205+63	-	205+88	LT	36	OPTION BA-10-3
206+00	-	206+25	LT	75	OPTION BA-5-5
207+40	-	207+65	LT	27	OPTION BA-10-5
209+44	-	209+69	RT	15	OPTION SC-5-5
209+91	-	210+16	RT	15	OPTION SC-10-5
PROJECT 8680-00-71 CAT 0010 TOTAL				168	

QUANTITY ALSO SHOWN ELSEWHERE.

CONSTRUCTION EQUIPMENT TEST ZONE

STATION	TO	STATION	LOCATION	SPV.0075.002 HRS	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
205+05	-	206+50	LT	6	OPTIONS BA-10-3,BA-5-5
206+91	-	207+92	LT	6	OPTION BA-10-5
208+43	-	209+72	LT	6	OPTIONS T-10-5,PA-5-5
209+20	-	210+41	RT	6	OPTIONS SC-5-5,SC10-5
PROJECT 8680-00-71 CAT 0010 TOTAL				24	

BASE AGGREGATE OPEN GRADED

STATION	TO	STATION	LOCATION	310.0115 CY	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
205+63		205+88	LT	19	OPTION BA-10-3
206+00		206+25	LT	19	OPTION BA-5-5
207+40		207+65	LT	37	OPTION BA-10-5
PROJECT 8680-00-71 CAT 0010 TOTAL				74	

QUANTITY ALSO SHOWN ELSEWHERE.

PIPE UNDERDRAIN WRAPPED 6-INCH

STATION	TO	STATION	LOCATION	612.0406 LF	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
205+63		205+88	LT	25	OPTION BA-10-3
206+00		206+25	LT	25	OPTION BA-5-5
207+40		207+65	LT	25	OPTION BA-10-5
209+44		209+69	RT	25	OPTION SC-5-5
209+91		210+16	RT	25	OPTION SC-10-5
PROJECT 8680-00-71 CAT 0010 TOTAL				125	

QUANTITY ALSO SHOWN ELSEWHERE.

SCHEDULE 40 PVC PIPE PERFORATED 6-INCH

STATION	TO	STATION	LOCATION	* SPV.0090.002 LF	REMARKS
PROJECT 8680-00-71					
CAT 0010					
STAGE 1-2					
209+21	-	209+46	LT	360	OPTION PA-5-5
PROJECT 8680-00-71 CAT 0010 TOTAL				360	

* QUANTITY ALSO SHOWN ELSEWHERE.

3

SANITARY SEWER ITEMS				
	SPV.0060.040	REMOVING SANITARY MANHOLES	1	EACH
	SPV.0060.041	SANITARY SEWER CASTING	3	EACH
	SPV.0060.042	CONNECT TO EXISTING SANITARY SERVICE	3	EACH
	SPV.0060.043	CONNECT TO EXISTING SANITARY MAIN 18-INCH	1	EACH
	SPV.0060.044	CONNECT TO EXISTING SANITARY MAIN 20 X 30-INCH	1	EACH
	SPV.0060.045	CONNECT TO EXISTING SANITARY MAIN 72-INCH	2	EACH
	SPV.0060.046	CONNECT TO EXISTING SANITARY MANHOLE	1	EACH
	SPV.0090.005	REMOVING SANITARY SEWER PIPE 4-INCH TO 30-INCH	304	LF
	SPV.0090.006	REMOVING SANITARY SEWER PIPE 72-INCH	118	LF
	SPV.0090.007	SANITARY MANHOLE, 48-INCH	12.8	LF
	SPV.0090.008	SANITARY MANHOLE, 120-INCH	20.5	LF
	SPV.0090.009	SANITARY SEWER SERVICE 6-INCH	102	LF
	SPV.0090.010	SANITARY SEWER MAIN 18-INCH	8	LF
	SPV.0090.011	SANITARY SEWER MAIN 24-INCH	194	LF
	SPV.0090.012	SANITARY SEWER MAIN RC HORIZONTAL ELLIPTICAL CLASS HE-III 58X91-INCH	118	LF
	SPV.0090.014	SEWER FIELD QUALITY CONTROL - TELEVISING	320	LF
	SPV.0090.013	SEWER FIELD QUALITY CONTROL - DEFLECTION TEST	202	LF
	SPV.0060.074	CORE DRILL	2	EACH
	SPV.0060.073	OUTSIDE DROP	1	EACH
	SPV.0060.047	CONSTRUCTION STAKING SANITARY SEWER	3	EACH

SANITARY SERVICES					
		SPV.0090.005	SPV.0090.009	(INCID)	SPV.0060.042
STATION	LOCATION	REMOVING SANITARY SEWER PIPE 4-INCH TO 30-INCH	SANITARY SEWER SERVICE 6-INCH	24" X 6" PVC WYE	CONNECT TO EXISTING SANITARY SERVICE
		LIN FT	LIN FT	EACH	EACH
PINE AVE					
460+53	1.0' RT	34	34	1	1
460+56	1.0' RT	34	34	1	1
460+97	1.0' RT	34	34	1	1
PROJECT ITEM TOTALS		102	102	3	3

3

SANITARY SEWER MAIN											
						SPV.0060.041	SPV.0060.040	SPV.0090.007	SPV.0090.008	SPV.0090.005	SPV.0060.047
STR. NO.	TYPE	LOCATION		TOP OF CASTING	OUTLET	SANITARY SEWER CASTING	REMOVING SANITARY MANHOLES	SANITARY MANHOLE, 48-INCH	SANITARY MANHOLE, 120-INCH	REMOVING SANITARY SEWER PIPE 4-INCH TO 30-INCH	CONSTRUCTION STAKING SANITARY SEWER
		STATION	OFSET	ELEV	ELEV	EACH	EACH	LIN FT	LIN FT	LIN FT	EACH
		BIRCH AVE									
SA10	SAN	419+52	0' RT.	629.48	613.90	1		6.33	10.25	8	1
SA11	SAN	420+69	0.1' RT.	629.34	613.62	1		6.47	10.25		1
		PINE AVE									
620	EX SAN	459+56	0.9' RT.	628.73	615.61		1			194	1
SA20	SAN	461+50	0.1' RT.	626.28	614.92	1					
PROJECT ITEM TOTALS						3	1	12.8	20.5	202	3

SANITARY SEWER MAIN (Continued)										
	SPV.0090.006	SPV.0090.010	SPV.0090.011	SPV.0090.012	SPV.0060.043	SPV.0060.044	SPV.0060.045	SPV.0060.046	SPV.0060.074	SPV.0060.073
STR. NO.	REMOVING SANITARY SEWER PIPE 72-INCH	SANITARY SEWER MAIN 18-INCH	SANITARY SEWER MAIN 24-INCH	SANITARY SEWER MAIN RC HORIZONTAL ELLIPTICAL CLASS HE-III 58X91-INCH	CONNECT TO EXISTING SANITARY MAIN 18-INCH	CONNECT TO EXISTING SANITARY MAIN 20 X 30-INCH	CONNECT TO EXISTING SANITARY MAIN 72-INCH	CONNECT TO EXISTING SANITARY MANHOLE	CORE DRILL	OUTSIDE DROP
	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH
SA10	118	8		118	1		1		1	1
SA11							1			
620			194					1		
SA20						1				
PROJECT ITEM TOTALS	118	8	194	118	1	1	2	1	2	1

3

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH
PROJECT 8680-00-71		
CATEGORY 0070		
STAGE 2 YEAR 1		
ELM AVENUE		
471+38	19.9' RT	1
471+87	22.2' RT	1
STAGE 2 YEAR 1 SUBTOTAL		2
PROJECT 8680-00-71 CATEGORY 0070 TOTAL		2
PROJECT ITEM TOTAL		2

REMOVING MANHOLES

STATION	LOCATION	204.0210 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 1 YEAR 1		
BELKNAP STREET		
194+19	30.1' RT	1
201+22	46.9' RT	1
204+93	44.9' RT	1
MORTORELLI DRIVE		
439+41.00	8.0' RT	1
STAGE 1 YEAR 1 SUBTOTAL		4
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 5 YEAR 2		
BELKNAP STREET		
163+87	29.5' RT	1
182+55.50	29.7' RT	1
PROJECT 8680-00-71		
CATEGORY 0070		
STAGE 5 YEAR 2		
BAXTER AVENUE		
348+26	15.3' LT	1
PROJECT 8998-00-24		
CATEGORY 0010		
STAGE 5 YEAR 2		
CATLIN AVENUE		
408+05	33.0' RT	1
STAGE 5 YEAR 2 SUBTOTAL		4
PROJET 8680-00-71		
CATEGORY 0060		
STAGE 6 YEAR 2		
BELKNAP STREET		
148+43.59	1.0' RT	1
182+34	55.0' LT	1
STAGE 6 YEAR 2 SUBTOTAL		2
PROJECT 8680-00-71 CATEGORY 0060 TOTAL		8
PROJECT 8680-00-71 CATEGORY 0070 TOTAL		1
PROJECT 8998-00-24 CATEGORY 0010 TOTAL		1
PROJECT ITEM TOTAL		10

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 1 YEAR 1		
BELKNAP STREET		
138+08	31.2' RT	1
140+67	30.8' RT	1
141+85	39.0' RT	1
144+67	33.3' RT	1
145+77	33.5' RT	1
185+58	29.7' RT	1
198+58	28.6' RT	1
201+92.50	29.2' RT	1
205+56.40	29.0' RT	1
MORTORELLI DRIVE		
439+44	19.7' LT	1
ELM AVENUE		
469+32	30.3' RT	1
469+34	17.4' LT	1
PROJECT 8998-00-24		
CATEGORY 0010		
HILL AVENUE		
498+42	25.0' LT	1
498+42	15.9' RT	1
STAGE 1 YEAR 1 SUBTOTAL		14
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 2 YEAR 1		
BELKNAP STREET		
137+29.20	88.3' LT	1
137+76.13	43.6' LT	1
140+71	30.3' LT	1
142+00	32.1' LT	1
144+53	38.5' LT	1
144+94	42.3' LT	1
145+46	47.7' LT	1
145+77	33.9' LT	1
185+35	28.3' LT	1
188+29	29.1' LT	1
191+18	28.5' LT	1
194+19	30.1' LT	1
198+66	28.3' LT	1
201+97	28.5' LT	1
209+84	27.8' LT	1
PROJECT 8680-00-71		
CATEGORY 0070		
BIRCH AVENUE		
421+95	21.5' LT	1
CYPRESS AVENUE		
431+75	21.5' RT	1
ELM AVENUE		
471+99	12.9' LT	1
STAGE 2 YEAR 1 SUBTOTAL		18

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 5 YEAR 2		
BELKNAP STREET		
148+47	28.7' RT	1
163+57	30.0' RT	1
173+92	54.6' RT	1
178+60	29.0' RT	1
182+04	29.4' RT	1
LAMBORN AVENUE		
358+91	25.6' RT	1
359+33.51	21.6' LT	1
FISHER AVENUE		
398+27	15.6' LT	1
PROJECT 8680-00-71		
CATEGORY 0070		
JOHN AVENUE		
298+20.30	22.3' LT	1
298+22.80	20.5' RT	1
HUGHITT AVENUE		
308+20	22.0' RT	1
308+22	20.0' LT	1
CUMMING AVENUE		
338+17	15.5' LT	1
338+19	16.0' RT	1
BAXTER AVENUE		
348+19	17.0' RT	1
CLOUGH AVENUE		
388+20	14.5' LT	1
388+27	12.0' RT	1
PROJECT 8998-00-24		
CATEGORY 0010		
HAMMOND AVENUE		
327+93	29.0' RT	1
327+94	33.0' LT	1
CATLIN AVENUE		
408+17	28.5' LT	1
408+24	21.6' RT	1
STAGE 5 YEAR 2 SUBTOTAL		21
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 6 YEAR 2		
BELKNAP STREET		
148+46	28.4' LT	1
163+55	34.0' RT	1
174+08	29.0' LT	1
178+38	29.7' LT	1
HAMMOND AVENUE		
330+65	31.0' RT	1
330+82	36.0' LT	1
PROJECT 8680-00-71		
CATEGORY 0070		
JOHN AVENUE		
301+74	22.0' LT	1
HUGHITT AVENUE		
311+75	22.5' LT	1
CUMMING AVENUE		
341+76	18.7' RT	1
BAXTER AVENUE		
351+76	21.0' LT	1
FISHER AVENUE		
401+77.80	26.9' LT	1
STAGE 6 YEAR 2 SUBTOTAL		11
PROJECT 8680-00-71 CATEGORY 0060 TOTAL		41
PROJECT 8680-00-71 CATEGORY 0070 TOTAL		17
PROJECT 8998-00-24 CATEGORY 0010 TOTAL		6
PROJECT ITEM TOTAL		64

REMOVING STORM SEWER

STATION	LOCATION	204.0245.01 4-INCH LF	204.0245.02 6-INCH LF	204.0245.03 8-INCH LF	204.0245.04 10-INCH LF	204.0245.05 12-INCH LF	204.0245.06 15-INCH LF	204.0245.07 18-INCH LF	204.0245.08 24-INCH LF	204.0245.09 36-INCH LF	204.0245.10 48-INCH LF	204.0245.11 54-INCH LF	COMMENT
PROJECT 8680-00-71													
CATEGORY 0060													
STAGE 1 YEAR 1													
BELKNAP STREET													
137+82 - 138+08	RT						27						
140+67 - 140+69	RT					7							
141+85	RT					8							
145+77	RT					8							
185+47 - 185+58	RT					31							
185+58	RT				32								
185+58 - 186+23	RT				71								
188+76 - 189+22	RT					44							
191+22 - 191+27	RT					31							
194+10 - 194+18	RT										8		
194+18	RT					29							
194+15 - 194+18	RT					35							
198+45 - 198+58	RT					31							
198+58 - 198+62	RT					29							
200+94 - 201+22	RT								32				
200+94 - 201+92.50	RT					100							
201+93 - 201+95	RT					29							
201+22 - 204+93	RT					372							
204+93 - 205+03	RT					22							
204+93 - 205+56.40	RT					65							
MORTORELLI DRIVE													
438+88 - 439+31	RT					69							
439+41 - 439+44	LT & RT					23							
439+44 - 439+71	LT & RT					37							
ELM AVENUE													
469+34 - 469+54	LT					21							
469+32 - 469+34	LT					48							
PROJECT 8680-00-71													
CATEGORY 0070													
ELM AVENUE													
467+72 - 469+54	LT							182					
PROJECT 8998-00-24													
CATEGORY 0010													
HILL AVENUE	LT												
497+94 - 498+44	LT						47						
498+12	LT		5										
498+46	LT				40								
STAGE 1 YEAR 1 SUBTOTALS		0	5	0	143	1039	74	182	32	0	8	0	
PROJECT 8680-00-71													
CATEGORY 0060													
STAGE 2 YEAR 1													
BELKNAP STREET													
137+25 - 137+29	LT						5						
137+29 - 137+32	LT					5							
137+63 - 137+76	LT					17							
140+71 - 140+73	LT					7							
141+96 - 142+00	LT					8							
144+53	LT						8						
144+53 - 144+94	LT						49						
144+94 - 145+46	LT					45							
145+77	LT					33							
185+35 - 185+47	LT					31							
188+29	LT			19									
188+29 - 188+76	LT					55							
191+18 - 191+22	LT					29							
194+18	LT					29							
198+62 - 198+66	LT					29							
201+95 - 201+98	LT					29							
209+84	LT					8							
SUBTOTAL		0	0	19	0	325	62	0	0	0	0	0	

CONT. REMOVING STORM SEWER

STATION	LOCATION	204.0245.01 4-INCH LF	204.0245.02 6-INCH LF	204.0245.03 8-INCH LF	204.0245.04 10-INCH LF	204.0245.05 12-INCH LF	204.0245.06 15-INCH LF	204.0245.07 18-INCH LF	204.0245.08 24-INCH LF	204.0245.09 36-INCH LF	204.0245.10 48-INCH LF	204.0245.11 54-INCH LF	COMMENT
PROJECT 8680-00-71													
CATEGORY 0070													
BIRCH AVENUE													
421+83 - 421+95	LT & RT			40									
CYPRESS AVENUE													
431+75 - 421+84	RT		26										
431+84 - 432+06	RT				32								
ELM AVENUE													
471+99	LT		5										
472+07 - 472+15	LT											8	
STAGE 2 YEAR 1 SUBTOTALS		0	31	59	32	325	62	0	0	0	0	8	
PROJECT 8680-00-71													
CATEGORY 0060													
STAGE 5 YEAR 2													
BELKNAP STREET													
148+43.59 - 148+47	RT					28							
163+57 - 163+87	RT					30							
163+71 - 163+87	RT					33							
173+92 - 174+02	RT					56							
178+50 - 178+60	RT					31							
182+04 - 182+55.50	RT					51							
182+48 - 182+55.50	RT				30								
FISHER AVENUE													
398+20 - 398+27	LT & RT					51							
398+27 - 399+71	LT					145							
CATLIN AVENUE													
408+04 - 408+24	RT				15								
408+05 - 408+17	LT					12							
408+24 - 409+71	RT				148								
408+05	LT					8				8			
PROJECT 8680-00-71													
CATEGORY 0070													
JOHN AVENUE													
298+20	LT		10										
298+25	RT			12									
HUGHITT AVENUE													
308+20	RT		8										
308+22	LT			10									
CUMMING AVENUE													
338+17	LT			17									
338+17 - 338+19	LT & RT			15									
BAXTER AVENUE													
348+17 - 348+19	RT		18										
348+26	LT	10			5								
348+26 - 349+70	LT					144							
LAMBORN AVENUE													
358+91 - 359+33.51	LT & RT					56							
CLOUGH AVENUE													
388+12 - 388+27	RT					19							
388+20 - 389+48	LT					128							
PROJECT 8998-00-24													
CATEGORY 0010													
HAMMOND AVENUE													
327+81 - 327+94	LT						12						
327+94	LT & RT					61							
LAMBORN AVENUE													
358+25 - 358+91	LT & RT					82							
STAGE 5 YEAR 2 SUBTOTALS		10	36	54	198	935	12	0	0	8	0	0	

3

CONT. REMOVING STORM SEWER

STATION	LOCATION	204.0245.01 4-INCH LF	204.0245.02 6-INCH LF	204.0245.03 8-INCH LF	204.0245.04 10-INCH LF	204.0245.05 12-INCH LF	204.0245.06 15-INCH LF	204.0245.07 18-INCH LF	204.0245.08 24-INCH LF	204.0245.09 36-INCH LF	204.0245.10 48-INCH LF	204.0245.11 54-INCH LF	COMMENT
PROJECT 8680-00-71													
CATEGORY 0060													
STAGE 6 YEAR 2													
BELKNAP STREET													
148+43.59 - 148+46	LT					30							
163+55 - 163+71	LT					34							
174+02 - 174+08	LT					29							
178+38 - 178+50	LT					31							
182+34 - 182+48	LT				57								
HAMMOND AVENUE													
330+65 - 330+80	LT & RT					67							
PROJECT 8680-00-71													
CATEGORY 0070													
HUGHITT AVENUE													
312+00	LT		6	5									
CUMMING AVENUE													
341+76 - 341+84	RT			17									
BAXTER AVENUE													
351+76 - 351+80	LT & RT				14								
FISHER AVENUE													
401+77.80 - 401+80.60	LT			24									
STAGE 6 YEAR 2 SUBTOTALS		0	6	46	71	191	0	0	0	0	0	0	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		0	0	19	353	2000	89	0	32	8	8	0	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		10	73	140	51	347	0	182	0	0	0	8	
PROJECT 8998-00-24 CATEGORY 0010 TOTALS		0	5	0	40	143	59	0	0	0	0	0	
PROJECT ITEM TOTALS		10	78	159	444	2490	148	182	32	8	8	8	

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\030200_MQ(STORM SEWER0).DWG
LAYOUT NAME - ****
PLOT DATE : 10/20/2016 1:28 PM PLOT BY : BILL MCELROY PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

3

SEALING PIPES

STATION	LOCATION	204.0280 EACH	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 1 YEAR 1			
BELKNAP STREET			
186+23	56.6' RT	1	AT EXISTING MANHOLE
STAGE 1 YEAR 1 SUBTOTAL		1	
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 2 YEAR 1			
BIRCH AVENUE			
421+83	20.2' RT	1	5' FROM EXIST BRICK SANITARY
ELM AVENUE			
471+99	12.9' LT	1	SEAL PIPE AT STORM MAIN
STAGE 2 YEAR 1 SUBTOTAL		2	
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 5 YEAR 2			
JOHN AVENUE			
298+20	21' LT	1	5' FROM EXIST BRICK SANITARY
298+25	20' RT	1	5' FROM EXIST BRICK SANITARY
HUGHITT AVENUE			
308+20	22' RT	1	5' FROM EXIST BRICK SANITARY
308+22	20' LT	1	5' FROM EXIST BRICK SANITARY
CLOUGH AVENUE			
388+20	14.5' LT	1	5' FROM EXIST BRICK SANITARY
PROJECT 8998-00-24			
CATEGORY 0010			
HAMMOND AVENUE			
327+81	27.1' LT	1	EXISTING 15" STORM SEWER
327+59	0.5' RT	1	EXISTING 15" STORM SEWER
STAGE 5 YEAR 2 SUBTOTAL		7	
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 6 YEAR 2			
BELKNAP STREET			
145+75	0.9' RT	1	INSIDE EXISTING MANHOLE
148+43.59	1.0' RT	1	
PROJECT 8680-00-71			
CATEGORY 0070			
JOHN AVENUE			
301+74	22' LT	1	EXISTING 8" COMBINED SEWER
301+90	192.2' LT	1	EXISTING 8" COMBINED SEWER
HAMMOND AVENUE			
330+90	35.8' LT	1	EXISTING 12" STORM SEWER
331+84	35.0' LT	1	EXISTING 12" STORM SEWER
STAGE 6 YEAR 2 SUBTOTAL		6	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		3	
PROJECT 8998-00-24 CATEGORY 0010 TOTALS		2	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		11	
PROJECT ITEM TOTAL		16	

CONCRETE COLLAR FOR PIPE

STATION	LOCATION	520.8000 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 1 YEAR 1		
BELKNAP STREET		
137+82	34.3' RT	1
145+77	33.5' RT	1
194+11	30.1' RT	1
STAGE 1 YEAR 1 SUBTOTAL		3
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 2 YEAR 1		
BELKNAP STREET		
137+25	91' LT	1
137+32	86' LT	1
144+53	38.5' LT	2
144+94	42.3' LT	2
145+46	47.7' LT	1
145+77	33.9' LT	1
PROJECT 8680-00-71		
CATEGORY 0070		
ELM AVENUE		
472+15	21.6' LT	1
STAGE 2 YEAR 1 SUBTOTAL		9
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 5 YEAR 2		
CATLIN AVENUE		
408+05	33.0' LT	2
STAGE 5 YEAR 2 SUBTOTAL		2
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		13
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		1
PROJECT ITEM TOTAL		14

RIPRAP HEAVY

STATION	LOCATION	606.0300 CY
PROJECT 8680-00-71		
CATEGORY 0070		
STAGE 2 YEAR 1		
HILL AVENUE		
501+33	37.1' LT	5
STAGE 2 YEAR 1 SUBTOTAL		5
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		5
PROJECT ITEM TOTAL		5

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STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
PROJECT 8680-00-71																						
CATEGORY 0060																						
STAGE 1 YEAR 1																						
BELKNAP STREET																						
138+07	62	EX	62	33.5' RT									25							636.50	636.40	0.0040
140+67	70	EX	70	33.5' RT								8								637.48	637.44	0.0050
141+85	73	EX	73	39.0' RT								8								637.17	637.07	0.0125
143+56	80	81	80	61.0' RT								63								637.69	637.45	0.0038
144+15	81	82	81	40.5' RT								52								637.45	637.25	0.0038
144+67	83	82	83	83.2' RT								50								637.50	637.25	0.0050
145+77	88	EX	88	33.5' RT								8								636.94	636.80	0.0175
184+25 - 185+53	21	22	21 (PARTIAL)	17.0' RT														128		621.23	620.97	0.0020
184+64	22JJ	22J	22JJ	34.5' RT								10								625.09	625.00	0.0090
184+74	22J	22I	22J	34.5' RT								10								625.00	624.85	0.0150
184+84	22I	22H	22I	34.5' RT									75							624.60	624.15	0.0060
185+47	22A	22	22A (PARTIAL)	CL		18													1	621.65	621.60	0.0028
185+58	22H	22	22H	34.5' RT										19						623.90	623.60	0.0158
185+59	22K	22H	22K	59.8' RT									25						3	627.13	624.30	0.1132
185+53 - 188+96	22	23	22	17.0' RT														343		620.97	619.75	0.0036
188+15	23I	23H	23I	34.5' RT								39								624.83	624.61	0.0056
188+54	23H	23	23H	34.5' RT								46								624.61	624.08	0.0115
188+76	23A	23	23A (PARTIAL)	CL		26													1	621.77	621.65	0.0046
188+96	23	24	23	17.0' RT														229		619.75	618.93	0.0036
191+10	24C	24	24C	34.5' RT								23								623.90	623.60	0.0130
191+22	24A	24	24A (PARTIAL)	CL								17							1	623.48	623.40	0.0047
191+25	24	25	24	17.0' RT														90		618.93	618.50	0.0048
191+36	24D	24B	24D	47.5' RT								14								625.20	624.75	0.0321
191+40	24B	24	24B	34.5' RT								23								623.70	623.60	0.0043
192+82	30B	30A	30B	34.5' RT								10								623.38	622.60	0.0780
192+92	30A	30	30A	34.5' RT									12							622.40	622.25	0.0125
192+92	30C	30A	30C (PARTIAL)	CL									35						1	622.60	622.35	0.0071
193+04 - 194+19	30	590	30	34.5' RT										115						622.00	621.50	0.0043
194+11 - 194+19	EX580	590	590	30.1' RT						8										616.54	616.53	0.0012
194+15	31A	590	31A	86.2' RT									56							623.35	622.03	0.0236
194+19	31	590	31 (PARTIAL)	CL									30						1	623.01	622.83	0.0060
195+00	32A	32	32A	34.5' RT								12								624.08	624.00	0.0067
195+12	32	EX605	32	34.5' RT								15								624.00	623.50	0.0333
198+12	33K	33L	33K	53.5' RT								28								623.59	623.31	0.0100
198+40	33L	EX630	33L	53.5' RT								6								623.31	623.00	0.0517
198+50	33A	EX630	33A	34.5' RT		23														618.78	618.60	0.0078
198+50 - 198+62	33C	33A	33C (PARTIAL)	CL		37														618.88	618.78	0.0027
198+95	33B	33A	33B	34.5' RT									45							622.93	622.60	0.0073
199+37	33M	33B	33M	34.5' RT								42								623.40	623.18	0.0052
200+59	40	EX680	40	53.5' RT								8								623.81	623.70	0.0137
200+94 - 201+28	41	EX640	41	40.0' RT				35												619.34	619.15	0.0054
201+28 - 201+93	42	41	42	34.5' RT			65													620.09	619.84	0.0038
201+93 - 201+95	42A	42	42A (PARTIAL)	CL								35							1	623.54	623.14	0.0114
201+93 - 203+60	43	42	43	34.5' RT			167													620.84	620.09	0.0045
203+60	43A	43	43A (PARTIAL)	CL								35							1	624.01	623.62	0.0116
203+60 - 205+03	44	43	44	34.5' RT			143													621.35	620.84	0.0036
204+97 - 205+03	44B	44	44B (PARTIAL)	CL	35														1	622.02	621.87	0.0043
205+03	44G	44	44G	64.1' RT									30							625.88	623.85	0.0677
205+03 - 207+72	45	44	45	34.5' RT		274														622.65	621.85	0.0029
207+72 - 207+81	45A	45	45A (PARTIAL)	CL									35						1	623.70	623.40	0.0086
207+72 - 208+02	46	45	46	57.2' RT										26						624.36	623.15	0.0465
CATEGORY 0060 SHEET SUBTOTAL					35	378	375	35	0	8	0	562	368	160	0	0	0	790	12			

CONT. STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
MORTORELLI DRIVE																						
438+72	55D	55A	55D	32.5' RT								58							3	627.46	624.43	0.0522
439+19	55C	55B	55C	20.5' LT								10								624.70	624.57	0.0130
439+29	55B	55A	55B	20.5' LT										39						624.07	623.93	0.0036
439+29	55A	EX550	55A	18.5' RT										43						623.93	623.50	0.0100
POPLAR AVENUE																						
450+61	25A	25	25A	20.5' LT								20								623.66	623.40	0.0130
450+61	25B	25	25B	18.5' RT								19								623.56	623.40	0.0084
450+61 - 452+00	25	26	25	CL														141		618.50	617.69	0.0057
ELM AVENUE																						
467+72	41D	41B	41D	21.9' LT	8															622.94	622.90	0.0050
467+77	41C	41B	41C	17.5' RT									35							624.83	623.15	0.0480
467+78	41B	41A	41B	17.5' LT	159															622.90	621.10	0.0113
469+00	42D	42C	42D	17.5' RT								24								623.65	623.39	0.0108
469+38	41A	41	41A	17.5' LT	23															621.10	620.84	0.0113
469+42	42BB	42B	42BB	18.5' LT								20								623.51	623.17	0.0170
A HAYES CT																						
510+37	42C	42B	42C	11.0' RT								22								623.39	623.17	0.0100
510+37	42B	42	42B	11.0' LT									30							622.92	621.34	0.0527
510+47	42E	42C	42E	11.0' RT								10								623.53	623.39	0.0140
STAGE 1 YEAR 1 CATEGORY 0060 SUBTOTAL					225	378	375	35	0	8	0	745	433	242	0	0	0	931	15			
PROJECT 8998-00-24																						
CATEGORY 0010																						
HILL AVENUE																						
498+12	46E	46D	46E	21.8' LT								32								626.20	625.75	0.0141
498+44	46D	46F	46D	25.5' LT									47							625.75	625.49	0.0055
498+44	46F	46G	46F	21.5' RT									50							625.49	625.15	0.0068
499+47	46A	46	46A	25.0' RT								58								625.06	624.86	0.0034
499+59	46AA	46A	46AA	31.4' RT								14								625.12	625.06	0.0043
A HAYES CT																						
519+58	46C	46B	46C	10.6' RT								21								625.26	625.17	0.0043
519+58	46B	46	46B	10.6' LT								34								625.17	624.86	0.0091
STAGE 1 YEAR 1 CAT 0010 SUBTOTALS					0	0	0	0	0	0	0	159	97	0	0	0	0	0	0			
PROJECT 8680-00-71																						
CATEGORY 0060																						
STAGE 2 YEAR 1																						
BELKNAP STREET																						
137+73	61A	61	61A	58.5' LT								8								636.85	636.77	0.0100
140+72	71	EX	71	33.5' LT								8								637.11	637.07	0.0050
142+00	72	EX	72	33.7' LT								10								636.85	636.81	0.0040
144+93	84	85A	84	40.9' LT								51								635.40	635.15	0.0049
144+53	86	EX	86B	38.5' LT									8							635.27	635.22	0.0062
145+44	85	85A	85	54.8' LT								21								635.55	635.15	0.0190
145+44	85A	87	85A	33.8' LT									31							634.90	634.75	0.0048
145+75	87	EX	87	33.7' LT									34							634.75	634.55	0.0059
184+74	22C	22B	22C	34.5' LT								10								624.83	624.73	0.0100
184+84	22B	22A	22B	34.5' LT									50							624.48	624.27	0.0042
185+34	22A	22	22A (PARTIAL)	34.5' LT		37													2	621.75	621.65	0.0027
188+29	23B	23A	23B	47.0' LT								14								624.50	624.00	0.0357
188+35	23A	23	23A (PARTIAL)	34.5' LT		54													2	622.02	621.77	0.0046
191+17	24A	24	24A (PARTIAL)	34.5' LT								35							2	623.64	623.48	0.0046
192+92	30C	30A	30C (PARTIAL)	34.5' LT									34						2	622.84	622.60	0.0071
193+02	30D	30C	30D	34.5' LT								10								623.14	623.09	0.0050
194+19	31	590	31 (PARTIAL)	34.5' LT									35						2	623.23	623.01	0.0063
197+78	33E	33D	33E	34.5' LT								33								623.55	623.00	0.0167
198+11	33D	33C	33D	34.5' LT		64														619.25	618.99	0.0041
198+62 - 198+76	33C	33A	33C (PARTIAL)	34.5' LT		37													2	618.99	618.88	0.0030
198+95	33J	33C	33J	34.5' LT								19								623.08	622.75	0.0174
201+95 - 201+98	42A	42	42A (PARTIAL)	34.5' LT								34							2	623.94	623.54	0.0118
STAGE 2 YEAR 1 CATEGORY 0060 SHEET SUBTOTAL					0	192	0	0	0	0	0	253	192	0	0	0	0	0	14			

CONT. STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
BELKNAP STREET (CONT)																						
203+60	43A	43	43A (PARTIAL)	34.5' LT								34							2	624.42	624.01	0.0116
204+91 - 204+97	44B	44	44B (PARTIAL)	34.5' LT	35														2	622.17	622.02	0.0043
205+26	44AA	44A	44AA	53.5' LT								22								623.53	623.42	0.0050
205+38	44A	44B	44A	34.5' LT								47								623.42	622.67	0.0160
206+62	45AA	45A	45AA	53.0' LT								124								625.53	624.25	0.0104
207+81 - 207+90	45A	45	45A (PARTIAL)	34.5' LT									36						2	624.00	623.70	0.0083
209+84	47	EX	47	27.8' LT								8								626.41	626.37	0.0048
BIRCH AVENUE																						
420+62	22D	22A	22D	13.1' LT	44															622.40	622.25	0.0034
420+62	22E	22D	22E	13.9' RT	27															622.50	622.40	0.0037
CYPRESS AVENUE																						
430+51.30	23C	23A	23C	5.2' LT	38															622.68	622.52	0.0042
PINE AVENUE																						
460+62	33G	33F	33G	20.5' RT								43								622.92	620.38	0.0591
460+67	33F	33D	33F	22.4' LT		34														619.38	619.25	0.0038
CEDAR AVENUE																						
480+59	44D	44C	44D	15.5' LT								31								624.10	622.79	0.0423
480+60	44C	44B	44C	15.5' RT	25															622.29	622.17	0.0048
HILL AVENUE																						
500+56	45B	45A	45B	14.5' LT									44							624.45	624.00	0.0102
500+67	45C	45B	45C	17.4' RT								34								624.86	624.70	0.0047
STAGE 2 YEAR 1 CATEGORY 0060 SUBTOTAL					169	226	0	0	0	0	0	596	272	0	0	0	0	0	20			
PROJECT 8680-00-71																						
CATEGORY 0070																						
BIRCH AVENUE																						
422+06	22F	22E	22F	18.8' RT									142							623.58	622.75	0.0058
422+06	22G	22F	22G	18.2' LT									37							623.68	623.58	0.0027
CYPRESS AVENUE																						
430+67	23E	23C	23E	22.9' RT										32						622.82	622.68	0.0044
431+92	23EE	23E	23EE	23.0' RT										125						623.38	622.82	0.0045
432+10	23F	23EE	23F	16.5' RT										19						623.48	623.38	0.0053
432+10	23G	23F	23G	10.5' LT								27								624.14	623.98	0.0059
432+51	23J	23F	23J	20.6' RT								41							3	627.13	623.98	0.0768
PINE AVENUE																						
461+35	33FF	33F	33FF	25.5' LT										69						620.21	619.88	0.0048
461+64	33H	33FF	33H	11.5' LT										32						620.36	620.21	0.0047
461+64	33I	33H	33I	20.5' RT								32								621.18	620.86	0.0100
ELM AVENUE																						
471+44	34C	34B	34C	13.5' LT								57								622.06	621.75	0.0054
472+01	34B	34A	34B	13.5' LT								6								621.75	621.53	0.0367
472+01	34E	34D	34E	13.5' RT								6								622.10	621.77	0.0550
472+07	34A	34	34A	13.5' LT									8							621.28	621.10	0.0225
472+07	34D	34A	34D	13.5' RT									27							621.52	621.28	0.0089
472+07 472+15	34	EX	34	21.6' LT							8									612.94	612.93	0.0013
CEDAR AVENUE																						
481+48	44CC	44C	44CC	15.5' RT										88						622.47	622.29	0.0020
481+63	44EE	44CC	44EE	29.5' RT								21								624.14	622.97	0.0557
482+05	44F	44E	44F	13.5' LT								27								623.35	623.09	0.0096
482+08	44E	44CC	44E	13.5' RT										61						622.59	622.47	0.0020
HILL AVENUE																						
500+91	45D	45B	45D	41.0' LT								44							3	626.75	624.70	0.0466
501+37	45F	45E	45F	15.0' LT								22							3	625.81	625.70	0.0050
501+37	45H	45F	45H	15.1' RT								30								625.90	625.81	0.0030
501+79	45G	45F	45G	23.0' LT								42								625.95	625.81	0.0033
STAGE 2 YEAR 1 CAT 0070 SUBTOTALS					0	0	0	0	0	0	8	355	214	426	0	0	0	0	9			

CONT. STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
PROJECT 8680-00-71																						
CATEGORY 0060																						
STAGE 5 YEAR 2																						
BELKNAP STREET																						
148+49	1A	1	1A (PARTIAL	CL		33													1	633.00	632.94	0.0019
148+49 - 149+07	1	1F	1	33.5' RT		58														632.94	632.74	0.0034
149+07 - 149+31	1F	2	1F	33.5' RT				24												631.74	631.64	0.0042
149+42	2A	2	2A (PARTIAL)	CL								34							1	634.68	633.64	0.0307
149+31 - 149+75	2	3	2	33.5' RT				44												631.64	631.53	0.0025
149+75 - 151+90	3	3A	3	38.4' RT				216												631.53	630.97	0.0026
151+90 - 152+22	3A	4	3A	35.8' RT				32												630.97	630.89	0.0025
152+22	4A	4	4A (PARTIAL)	CL		34													1	632.34	632.01	0.0096
152+22 - 155+50	4	5	4	33.5' RT					328											630.39	629.61	0.0024
155+50 - 155+92	5	6	5	38.3' RT					42											629.61	629.51	0.0024
155+92	6A	6	6A (PARTIAL)	CL								34							1	633.12	632.01	0.0328
155+92 - 156+13	6	7	6	33.5' RT					22											629.51	629.46	0.0023
156+13 - 156+85	7	8	7	39.5' RT						72										628.96	628.79	0.0024
156+83 - 156+85	8A	8	8A (PARTIAL)	CL									41						1	632.71	632.40	0.0075
156+85 - 158+40	8	9A	8	40.7' RT						155										628.79	628.42	0.0024
157+48	8GG	8G	8GG	55.0' RT								71								634.45	633.90	0.0077
158+40 - 159+32	9A	9	9A	39.5' RT						92										628.42	628.19	0.0025
159+32 - 159+95	9	10	9	39.5' RT						63										628.19	628.07	0.0019
159+94	10A	10	10A (PARTIAL)	CL		34													1	629.21	629.00	0.0061
159+95 - 161+79	10	11	10	33.5' RT												255				628.07	627.55	0.0020
161+79 - 163+10	11	12	11	39.5' RT												61				627.55	627.42	0.0021
163+10 - 163+75	12	13	12	35.9' RT												67				627.42	627.29	0.0019
163+63	13K	13	13K	33.5' RT								20								631.12	631.00	0.0060
163+71	13A	13	13A (PARTIAL)	CL	18															627.85	627.67	0.0100
163+75 - 164+20	13	14	13	17.0' RT												45				627.29	627.16	0.0029
164+20 - 167+48	14	15	14	17.0' RT														328		625.16	624.58	0.0018
166+69	15H	15G	15H	39.5' RT								65								629.94	629.05	0.0137
167+34	15G	15	15G	33.5' RT										22						628.31	628.00	0.0141
167+48 - 171+01	15	17	15	17.0' RT														353		624.58	623.88	0.0020
167+46 - 167+48	15AA	15	15AA (PARTIAL	CL		17													1	626.61	626.50	0.0065
170+33	17G	17F	17G	38.8' RT								68								628.55	628.17	0.0056
171+01	17F	17	17F	34.5' RT								17								628.17	628.00	0.0100
171+01	17A	17	17A (PARTIAL)	CL		17													1	624.70	624.65	0.0029
171+01 - 173+94	17	18	17	17.0' RT														293		623.88	623.29	0.0020
173+36	18E	18DD	18E	34.5' RT								10								627.20	627.10	0.0100
173+46	18DD	18D	18DD	34.5' RT									35							626.85	625.55	0.0371
173+80	18D	18	18D	35.8' RT	23															625.30	625.00	0.0130
173+94 - 178+50	18	19	18	17.0' RT														456		623.29	622.38	0.0020
174+02	18A	18	18A (PARTIAL)	CL											19				1	625.09	625.00	0.0048
174+55	18F	18D	18F	34.5' RT								75								627.19	625.80	0.0185
177+87	19I	19H	19I	43.4' RT								35								626.83	626.67	0.0046
178+19	19H	19H	19H	60.5' RT								8								627.46	626.67	0.0988
178+21	19HH	19G	19HH	52.5' RT								35								626.67	626.07	0.0171
178+50	19A	19	19A (PARTIAL)	CL		17													1	622.69	622.65	0.0022
178+50 - 181+73	19	20	19	17.0' RT														325		622.38	621.73	0.0020
179+21	19JJ	19J	19JJ	50.5' RT								37								626.76	626.60	0.0043
181+63	20D	20C	20D	34.5' RT								12								625.88	625.78	0.0083
181+73	20C	20	20C	34.5' RT								17								625.78	625.00	0.0459
181+73 - 182+52	20	21	20	17.0' RT														77		621.73	621.57	0.0021
181+73	20A	20	20A (PARTIAL)	CL								17							1	625.18	625.00	0.0105
182+48	21A	21	21A (PARTIAL)	CL	18														1	622.95	622.88	0.0039
182+52 - 184+25	21	22	21 (PARTIAL)	17.0' RT														172		621.57	621.23	0.0020
JOHN AVENUE																						
298+80	2G	2F	2G	14.5' LT								29								634.82	634.54	0.0097
298+80	2F	1F	2F	14.5' RT											87					633.54	632.74	0.0092
HUGHITT AVENUE																						
309+32	4I	4	4I	12.5' LT		44														632.33	631.89	0.0100
309+37	4J	4I	4J	16.5' RT		29														632.59	632.33	0.0090
STAGE 5 YEAR 2 CAT 0060 SHEET SUBTOTALS					59	283	0	316	392	382	0	584	76	22	106	428	0	2004	12			

CONT. STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
HAMMOND AVENUE																						
329+39	8G	8	8G	30.1' RT								22								633.90	633.46	0.0200
329+42	7A	7	7A	27.9' LT		20														630.45	630.26	0.0095
CUMMING AVENUE																						
339+44	10G	10	10G	7.0' LT		38														628.70	628.20	0.0132
339+46	10H	10G	10H	19.7' RT		27														628.88	628.70	0.0067
BAXTER AVENUE																						
349+31	14B	14A	14B	17.7' LT								35								630.38	630.00	0.0109
349+31	14A	14	14A	17.7' RT													52			626.44	626.25	0.0037
LAMBORN AVENUE																						
359+22	15I	15	15I	23.5' LT										47						628.70	628.31	0.0083
359+32	15J	15I	15J	23.5' LT										48						628.81	628.70	0.0023
CLOUGH AVENUE																						
389+22	18H	18G	18H	19.3' RT								38								626.17	626.00	0.0045
389+24	18G	18D	18G	18.8' LT										42						625.50	625.30	0.0048
FISHER AVENUE																						
398+36	19L	19K	19L	29.9' LT								15								625.59	625.50	0.0060
398+41	19M	19K	19M	22.0' RT								38								625.67	625.50	0.0045
398+33.50	19K	19G	19K	15.5' LT									105							625.25	624.91	0.0032
398+54.50	19MM	19M	19MM	25.0' RT								14								625.74	625.67	0.0050
399+39	19J	19G	19J	15.5' RT								31								626.60	626.07	0.0171
399+39	19G	19	19G	15.5' LT										45						624.66	624.44	0.0049
CATLIN AVENUE																						
408+05	EX	21L	21L	33.0' LT				8												618.93	618.91	0.0025
408+05	EX	21L	21L1	33.0' LT								8								625.54	625.52	0.0025
408+40	21K	21J	21K	21.5' RT								10								625.74	625.69	0.0050
408+50	21J	21I	21J	21.5' RT									57							625.44	625.28	0.0028
408+50	21I	21L	21I	35.0' LT									45							625.28	625.08	0.0044
409+38	21H	21G	21H	19.1' RT								41								625.28	625.10	0.0044
409+43	21G	21	21G	21.3' RT									46							624.85	624.72	0.0028
STAGE 5 YEAR 2 CAT 0060 SUBTOTALS					59	368	0	324	392	382	0	836	329	204	106	428	52	2004	12			
PROJECT 8680-00-71																						
CATEGORY 0070																						
JOHN AVENUE																						
297+82	2I	2H	2I	14.4' RT								8								635.29	635.10	0.0237
297+87	2K	2J	2K	14.0' LT								8								635.23	635.19	0.0050
297+90	2H	2FF	2H	14.5' RT											80					634.10	633.61	0.0061
297+95	2J	2H	2J	14.0' LT										29						634.69	634.60	0.0031
298+70	2FF	2F	2FF	14.5' RT											10					633.61	633.54	0.0070
HUGHITT AVENUE																						
307+88	4M	4L	4M	14.5' LT								19								634.68	634.61	0.0037
307+88	4N	4K	4N	14.5' RT								19								634.68	634.53	0.0079
308+07	4L	4K	4L	13.8' LT										29						634.11	634.00	0.0038
308+07	4K	4I	4K	15.2' RT											130					633.50	632.59	0.0070
CUMMING AVENUE																						
338+04	10M	10J	10M	14.5' LT								20								631.50	631.38	0.0060
338+25	10J	10L	10J	14.5' LT									33							630.33	630.24	0.0027
338+25	10L	10I	10L	18.9' RT											26					629.49	629.36	0.0050
338+36	10K	10J	10K	25.5' LT								16								631.45	631.38	0.0044
338+50	10I	10H	10I	25.3' RT											96					629.36	628.88	0.0050
BAXTER AVENUE																						
348+00	14F	14E	14F	11.5' LT								23								630.54	630.42	0.0052
348+00	14E	14C	14E	11.5' RT													34			626.72	626.65	0.0021
348+33	14D	14C	14D	19.5' LT								39								630.56	630.35	0.0054
348+33	14C	14A	14C	19.5' RT													98			626.65	626.44	0.0021
CLOUGH AVENUE																						
387+90	18I	EX435	18I	11.4' RT									24							624.10	624.00	0.0042
387+91	18J	18I	18J	11.4' LT									23							624.16	624.10	0.0026
CAT 0070 SUBTOTAL					0	0	0	0	0	0	0	152	80	58	342	0	132	0	0			

CONT. STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
PROJECT 8998-00-24																						
CATEGORY 0010																						
HAMMOND AVENUE																						
327+86	7C	7B	7C	32.3' LT								9								633.06	632.75	0.0344
327+86	7E	7D	7E	29.6' RT								9								633.13	633.08	0.0056
327+95	7D	7B	7D	29.7' RT									62							632.83	632.50	0.0053
327+95	7B	7A	7B	32.5' LT											147					631.75	630.45	0.0088
LAMBORN AVENUE																						
358+36	15M	15L	15M	23.2' LT								77								630.04	629.76	0.0036
GRAND AVENUE																						
100+59	15L	15K	15L	14.5' RT								32								629.76	629.62	0.0044
100+60	15K	15J	15K	17.7' RT								83								629.62	629.31	0.0037
STAGE 5 YEAR 2 CAT 0010 SUBTOTALS					0	0	0	0	0	0	0	210	62	0	147	0	0	0	0			
PROJECT 8680-00-71																						
CATEGORY 0060																						
STAGE 6 YEAR 2																						
BELKNAP STREET																						
149+49	1A	1	1A (PARTIAL)	33.5' LT		34													2	633.07	633.00	0.0019
149+34	2A	2	2A (PARTIAL)	33.5' LT								33							2	635.70	634.68	0.0307
149+70	2B	2A	2B	37.7' LT								36								635.87	635.70	0.0047
151+90	4AA	4A	4AA	35.8' LT								32								635.95	635.50	0.0141
152+22	4A	4	4A (PARTIAL)	33.5' LT		33													2	632.65	632.34	0.0096
155+17	6B	6A	6B	38.8' LT								75								634.62	634.21	0.0055
155+92	6A	6	6A (PARTIAL)	33.5' LT								33							2	634.21	633.12	0.0328
165+81	8A	8	8A (PARTIAL)	39.0' LT									39						2	633.00	632.71	0.0075
159+32	10B	10A	10B	39.5' LT								61								633.09	632.00	0.0179
159+93	10A	10	10A (PARTIAL)	33.5' RT		33													2	629.41	629.21	0.0061
162+82	13B	13A	13B	39.5' LT								81								631.12	629.99	0.0140
163+62	13A	13	13A (PARTIAL)	33.5' RT	34															628.19	627.85	0.0100
166+55	15B	15A	15B	39.5' LT								61								630.22	629.60	0.0102
167+43	15AA	15	15AA (PARTIAL	33.5' LT		34													2	626.84	626.61	0.0057
167+15	15A	15AA	15A	33.5' LT								28								629.60	627.84	0.0629
170+42	17B	17A	17B	39.5' LT								59								628.24	627.93	0.0053
171+01	17A	17	17A (PARTIAL)	34.5' LT		34													2	624.80	624.70	0.0029
171+22	17CC	17A	17CC	32.4' LT										21						625.40	625.30	0.0047
173+41	18CC	18C	18CC	55.5' LT								16								627.55	627.46	0.0056
173+45	18C	18B	18C	39.5' LT									53							626.57	626.32	0.0047
173+98	18B	18A	18B	39.5' LT									22							626.32	626.05	0.0123
174+19	18A	18	18A (PARTIAL)	39.5' LT											43				2	625.30	625.09	0.0048
174+23	18AA	18A	18AA	69.0' LT								30								628.46	627.86	0.0200
177+96	19B	19A	19B	38.6' LT								52								626.63	626.00	0.0121
178+48	19A	19	19A (PARTIAL)	36.6' LT		37													2	622.77	622.69	0.0022
181+63	20B	20A	20B	34.5' LT								12								625.64	625.54	0.0083
181+73	20A	20	20A (PARTIAL)	34.5' LT								35							2	625.54	625.18	0.0105
182+34	21A	21	21A (PARTIAL)	62.0' LT	63														2	623.20	622.95	0.0039
JOHN AVENUE																						
300+64	1B	1A	1B	11.4' LT										44						633.70	633.57	0.0030
300+64	1C	1B	1C	11.6' RT								23								635.33	634.20	0.0491
HUGHITT AVENUE																						
310+56	4B	4A	4B	12.4' LT	36															633.50	633.15	0.0097
310+56	4C	4B	4C	12.6' RT	25															633.65	633.50	0.0060
HAMMOND AVENUE																						
330+55	8B	8A	8B	24.8' RT									18							633.25	633.00	0.0139
330+80	8D	8C	8D	35.5' LT								66								634.03	633.75	0.0042
330+82	8C	8B	8C	30.1' RT								28								633.75	633.50	0.0089
CUMMING AVENUE																						
340+64	10C	10A	10C	17.6' LT											37					629.55	629.41	0.0038
340+79	10D	10C	10D	26.0' RT											46					629.72	629.55	0.0037
BAXTER AVENUE																						
350+62	13C	13A	13C	10.5' LT	41															628.45	628.19	0.0063
350+78	13D	13C	13D	18.5' RT								33								630.39	628.95	0.0436
GRAND AVENUE																						
370+72	15C	15A	15C	29.5' LT		39														627.03	626.84	0.0049
370+82	15D	15C	15D	29.5' RT								60								629.01	628.03	0.0163
WEEKS AVENUE																						
380+63	17C	17CC	17C	14.3' RT										47						625.62	625.40	0.0047
FISHER AVENUE																						
400+63	19C	19A	19C	19.5' LT		30														622.87	622.77	0.0033
400+62	19D	19C	19D	19.5' RT		39														623.00	622.87	0.0033
CATLIN AVENUE																						
410+62	21C	21A	21C	20.0' RT	39															623.30	623.20	0.0026
STAGE 6 YEAR 2 CAT 0060 SUBTOTALS					238	313	0	0	0	0	0	854	132	112	126	0	0	0	24			

CONT. STORM SEWER PIPE REINFORCED CONCRETE

STATION	FROM STRUCTURE	TO STRUCTURE	PIPE	LOCATION	608.0318 SSPRC CLASS III 18-INCH LF	608.0324 SSPRC CLASS III 24-INCH LF	608.0330 SSPRC CLASS III 30-INCH LF	608.0336 SSPRC CLASS III 36-INCH LF	608.0342 SSPRC CLASS III 42-INCH LF	608.0348 SSPRC CLASS III 48-INCH LF	608.0354 SSPRC CLASS III 54-INCH LF	608.0412 SSPRC CLASS IV 12-INCH LF	608.0415 SSPRC CLASS IV 15-INCH LF	608.0418 SSPRC CLASS IV 18-INCH LF	608.0424 SSPRC CLASS IV 24-INCH LF	608.0448 SSPRC CLASS IV 48-INCH LF	608.0460 SSPRC CLASS IV 60-INCH LF	608.0472 SSPRC CLASS IV 72-INCH LF	* JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
PROJECT 8680-00-71																						
CATEGORY 0070																						
JOHN AVENUE																						
301+52	1D	1B	1D	14.5' LT										89						634.04	633.70	0.0038
301+52	1E	1D	1E	14.5' RT								29								634.68	634.54	0.0048
HUGHITT AVENUE																						
311+57	4G	4F	4G	20.5' LT								25								635.14	635.04	0.0040
311+82	4F	4D	4F	14.5' LT									27							634.79	634.52	0.0100
311+82	4D	4C	4D	12.5' RT										126						634.27	633.65	0.0049
311+90	4E	4D	4E	12.5' RT								8								634.62	634.27	0.0438
CUMMING AVENUE																						
341+46	10E	10D	10E	26.0' RT										67						630.59	630.22	0.0055
341+95	10F	10FF	10F	8.0' LT								27								631.73	631.40	0.0122
342+00	10EE	10E	10EE	20.0' RT										54						630.75	630.59	0.0030
342+21	10FF	10EE	10FF	14.5' LT									28							631.15	631.00	0.0054
BAXTER AVENUE																						
351+04	13E	13C	13E	16.5' LT	43															628.75	628.45	0.0070
351+52	13G	13E	13G	16.5' LT										48						628.98	628.75	0.0048
351+60	13L	13G	13L	24.5' LT								11								630.44	630.30	0.0127
351+69	13GG	13G	13GG	18.5' RT								39								630.24	629.47	0.0197
351+94	13O	13N	13O	110.0' LT								74								630.69	630.34	0.0047
351+94	13N	13M	13N	36.5' LT								24								630.34	629.55	0.0343
351+96	13M	13G	13M	13.0' LT										44						629.05	628.97	0.0016
352+23	13J	13I	13J	21.0' RT								42								629.90	629.69	0.0050
352+24	13I	13M	13I	21.1' LT								29								629.69	629.55	0.0052
WEEKS AVENUE																						
381+26	17D	17C	17D	14.5' RT										63						625.85	625.62	0.0037
381+26	17E	17D	17E	20.5' LT									35							626.24	626.10	0.0040
FISHER AVENUE																						
401+58	19DD	19D	19DD	19.5' RT										96						624.16	623.50	0.0069
401+68	19E	19DD	19E	19.5' RT									10							624.48	624.41	0.0070
401+93	19F	19E	19F	27.5' LT									53							624.67	624.48	0.0036
CAT 0070 SUBTOTALS					43	0	0	0	0	0	0	308	153	587	0	0	0	0	0			
PROJECT 8998-00-24																						
CATEGORY 0010																						
GRAND AVENUE																						
372+00	15E	15C	15E	26.5' LT										127						627.94	627.53	0.0032
372+00	15F	15E	15F	29.1' RT								56								628.72	628.44	0.0050
CATLIN AVENUE																						
412+25	21D	21C	21D	19.4' RT										163						623.93	623.30	0.0039
412+25	21E	21D	21E	20.9' LT									40							624.30	624.18	0.0030
CAT 0010 SUBTOTALS					0	0	0	0	0	0	0	56	40	290	0	0	0	0	0			
PROJECT 8680-00-71 CATEGORY 0060 TOTALS					691	1285	375	359	392	390	0	3031	1166	558	232	428	52	2935	71			
PROJECT 8680-00-71 CATEGORY 0070 TOTALS					43	0	0	0	0	0	8	815	447	1071	342	0	132	0	9			
PROJECT 8998-00-24 CATEGORY 0010 TOTALS					0	0	0	0	0	0	0	425	199	290	147	0	0	0	0			
PROJECT ITEM TOTALS					734	1285	375	359	392	390	8	4271	1812	1919	721	428	184	2935	80			

* SEE JOINT TIE LOCATION DETAIL AND TRAFFIC CONTROL PLANS FOR LOCATIONS REQUIRING JOINT TIES.
ALL JOINT TIES ARE INCIDENTAL.

STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	SPV.0060.030 INLET COVERS TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.029 MANHOLES 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 INLETS 4-FT DIA EACH	SPV.0060.031 INLETS 5-FT DIA SPECIAL EACH	SPV.0060.032 INLETS 6-FT DIA SPECIAL EACH	SPV.0060.033 INLETS 7-FT DIA SPECIAL EACH	SPV.0060.034 INLETS 8-FT DIA SPECIAL EACH	SPV.0060.035 INLETS 10-FT DIA SPECIAL EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
PROJECT 8680-00-71																															
CATEGORY 0060																															
STAGE 1 YEAR 1																															
BELKNAP STREET																															
138+07	62	33.5' RT								1																	1		1	641.10	636.50	3.96
140+67	70	33.5' RT								1																	1		1	640.59	637.48	2.45
141+85	73	39.0' RT								1																	1		1	640.77	637.17	2.94
143+56	80	61.0' RT								1																	1		1	641.58	637.69	3.23
144+15	81	40.5' RT								1																	1		1	640.44	637.45	2.35
144+67	82	33.3' RT								1										1									1	640.53	637.18	2.66
144+67	83	83.2' RT								1																	1		1	641.09	637.50	2.93
145+75	88	33.5' RT								1																	1		1	639.36	636.94	2.91
184+64	22JJ	34.5' RT							1																		1		1	629.59	625.09	3.84
184+74	22J	34.5' RT							1																		1		1	629.57	625.00	3.91
184+84	22I	34.5' RT										1								1									1	629.56	624.60	4.32
185+53	22	17' RT					1											1											1	630.22	620.97	9.00
185+59	22H	34.5' RT							1											1									1	629.75	623.90	5.02
185+59	22K	59.8' RT		1																									1	AEW	627.13	AEW
188+15	23I	34.5' RT							1																		1		1	629.33	624.83	3.84
188+54	23H	34.5' RT							1																		1		1	629.21	624.61	3.94
188+96	23	17' RT				1												1											1	629.66	619.75	9.60
189+22	EX550	29.1' RT			1	1																								629.23	EX	-
191+10	24C	34.5' RT										1															1		1	628.40	623.90	3.84
191+25	24	17' RT				1												1											1	628.83	618.93	9.65
191+27	EX580	30.4' RT			1	1																								628.56	EX	-
191+36	24D	47.5' RT								1																	1		1	628.70	625.20	2.84
191+40	24B	34.5' RT							1																		1		1	628.30	623.70	3.94
192+82	30B	34.5' RT							1																		1		1	627.88	623.38	3.84
192+92	30A	34.5' RT							1											1									1	627.88	622.35	4.89
193+04	30	34.5' RT							1											1									1	627.89	622.00	5.27
194+15	31A	86.2' RT									1																	1	1	626.70	623.35	3.54
194+19	590	30.1' RT				1										1													1	628.50	616.53	11.13
195+00	32A	34.5' RT							1																		1		1	628.58	624.08	3.84
195+12	32	34.5' RT							1																		1		1	628.62	624.00	3.96
195+14	EX605	49' RT			1																									628.80	EX	-
198+12	33K	53.5' RT								1																	1		1	628.08	623.59	3.83
198+40	33L	53.5' RT								1																	1		1	628.10	623.31	4.13
198+45	EX630	57' RT			1																									628.33	EX	-
198+50	33A	34.5' RT							1											1									1	627.93	618.78	8.57
198+95	33B	34.5' RT										1								1									1	627.82	622.93	4.25
199+37	33M	34.5' RT							1																		1		1	627.90	623.40	3.84
200+59	40	53.5' RT								1																	1		1	628.31	623.81	3.84
200+68	EX680	52.2' RT			1																									628.85	EX	-
200+94	EX640	30.3' RT			1	1																								628.59	EX	-
201+28	41	40.0' RT				1									1														1	628.46	619.34	8.20
201+93	42	34.5' RT								1													1						1	628.66	620.09	8.11
203+60	43	34.5' RT							1												1								1	629.16	620.84	7.86
205+03	44	34.5' RT							1														1						1	629.58	621.35	7.77
205+03	44G	64.1' RT							1											1									1	630.41	625.88	3.89
207+72	45	34.5' RT							1											1									1	629.82	622.65	6.59
MORTORELLI DRIVE																															
438+72	55D	32.5' RT	1																										1	AEW	628.63	AEW
439+19	55C	20.5' LT							1																		1		1	628.20	624.70	2.84
439+29	55B	20.5' LT								1										1									1	628.12	624.07	3.43
439+29	55A	18.5' RT								1										1									1	628.03	623.93	3.48
POPLAR AVENUE																															
450+61	25	0' LT				1												1											1	627.96	618.50	9.21
450+61	25A	20.5' LT								1																	1		1	627.59	623.66	3.27
450+61	25B	18.5' RT								1																	1		1	627.62	623.56	3.40
STAGE 1 YEAR 1 SHEET SUBTOTAL			1	1	6	8	1	0	18	17	1	3	0	1	0	1	0	4	0	11	1	2	0	0	0	24	1	47			

CONT. STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	SPV.0060.030 TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.029 MANHOLES 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 INLETS 4-FT DIA EACH	SPV.0060.031 INLETS 5-FT DIA SPECIAL EACH	SPV.0060.032 INLETS 6-FT DIA SPECIAL EACH	SPV.0060.033 INLETS 7-FT DIA SPECIAL EACH	SPV.0060.034 INLETS 8-FT DIA SPECIAL EACH	SPV.0060.035 INLETS 10-FT DIA SPECIAL EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
ELM AVENUE																															
469+00	42D	17.5' RT							1																	1		1	628.42	623.65	4.11
469+38	41A	17.5' LT								1										1								1	628.07	621.10	6.35
469+42	42BB	18.5' RT								1																1		1	628.01	623.51	3.84
A HAYES CT																															
510+37	42C	11.0' RT								1										1								1	628.06	623.39	4.01
510+37	42B	11.0' LT							1											1								1	628.32	622.92	4.76
510+47	42E	11.0' RT							1																	1		1	628.19	623.53	4.00
HILL AVENUE																															
499+47	46A	25' RT							1																	1		1	629.40	625.06	3.68
499+50	46	32.6' LT								1														1				1	629.30	624.36	4.32
499+59	46AA	31.4' RT								1																1		1	629.34	625.12	3.56
A HAYES CT																															
519+58	46B	10.6' LT							1																	1		1	630.06	625.17	4.23
PROJECT 8680-00-71																															
CATEGORY 0070																															
ELM AVENUE																															
467+72	41D	21.9' LT				1							1															1	630.39	622.94	6.71
467+77	41C	17.5' RT							1																	1		1	629.66	624.83	4.19
467+78	41B	17.5' LT							1											1								1	629.65	622.90	6.13
PROJECT 8998-00-24																															
CATEGORY 0010																															
HILL AVENUE																															
497+94	46G	16.6' RT							1											1								1	630.23	625.15	4.44
498+12	46E	21.8' LT							1																	1		1	629.79	626.20	2.93
498+44	46D	25.5' LT								1																1		1	629.53	625.75	3.14
498+44	46F	21.5' RT								1										1								1	629.60	625.49	3.47
A HAYES CT																															
519+58	46C	10.6' RT							1																	1		1	629.79	625.17	3.96
STAGE 1 YEAR 1 SUBTOTALS			1	1	6	9	1	0	28	24	1	3	1	1	0	1	0	4	0	17	1	3	0	0	0	34	1	65			
PROJECT 8680-00-71																															
CATEGORY 0060																															
STAGE 2 YEAR 1																															
BELKNAP STREET																															
137+27	EX	88.8' LT			1																								640.70	EX	-
137+66	61	55.0' LT				1							1															1	641.09	636.77	3.24
137+73	61A	58.5' LT							1																	1		1	640.80	636.85	3.29
140+72	71	33.5' LT								1																1		1	640.39	637.11	2.62
142+00	72	33.7' LT								1																1		1	640.86	636.85	3.35
144+53	86	38.5' LT							1																	1		1	641.96	635.27	6.05
144+93	84	40.9' LT								1																1		1	639.91	635.40	3.85
145+44	85A	33.8' LT				1							1															1	640.18	634.90	4.22
145+44	85	54.8 LT								1																1		1	640.07	635.55	3.86
145+75	87	33.7' LT								1										1								1	640.38	634.75	4.99
184+74	22C	34.5' LT							1																	1		1	629.33	624.83	3.84
184+84	22B	34.5' LT								1										1								1	629.32	624.48	4.20
185+34	22A	34.5' LT							1											1								1	629.44	621.75	7.11
188+29	23B	47' LT						1											1									1	629.49	622.50	5.91
188+35	23A	34.5' LT							1												1							1	629.03	622.02	6.43
191+17	24A	34.5' LT							1																	1		1	628.14	623.64	3.84
192+92	30C	34.5' LT								1																1		1	627.64	622.84	4.16
193+02	30D	34.5' LT							1																	1		1	627.64	623.14	3.84
194+19	31	34.5' LT							1																	1		1	628.03	623.23	4.16
197+78	33E	34.5' LT							1																	1		1	628.05	623.55	3.84
198+11	33D	34.5' LT				1							1															1	628.05	619.25	7.80
STAGE 2 YEAR 1 SHEET SUBTOTAL			0	0	1	3	0	1	9	7	0	0	3	0	0	0	0	0	1	3	1	0	0	0	0	12	0	20			

CONT. STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	SPV.0060.030 TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.029 MANHOLES 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 INLETS 4-FT DIA EACH	SPV.0060.031 INLETS 5-FT DIA SPECIAL EACH	SPV.0060.032 INLETS 6-FT DIA SPECIAL EACH	SPV.0060.033 INLETS 7-FT DIA SPECIAL EACH	SPV.0060.034 INLETS 8-FT DIA SPECIAL EACH	SPV.0060.035 INLETS 10-FT DIA SPECIAL EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
198+76	33C	34.5' LT							1												1							1	627.60	618.99	8.03
198+95	33J	34.5' LT								1																1		1	627.58	623.08	3.84
201+98	42A	34.5' LT							1																	1		1	628.44	623.94	3.83
203+60	43A	34.5' LT							1																	1		1	628.92	624.42	3.83
204+91	44B	34.5' LT				1							1															1	629.43	622.17	6.22
205+38	44A	34.5' LT							1											1								1	629.44	623.42	5.36
205+26	44AA	53.5' LT								1																1		1	629.32	623.53	5.13
206+62	45AA	53.0' LT								1																1		1	630.02	625.53	3.84
207+90	45A	34.5' LT								1										1								1	629.79	624.00	5.15
209+84	47	27.8' LT							1																	1		1	629.07	626.41	2.00
BIRCH AVENUE																															
420+64	22D	13.0' LT								1										1								1	628.82	622.40	5.80
420+64	22E	14.0' RT								1										1								1	628.81	622.50	5.69
CYPRESS AVENUE																															
430+51.30	23C	5.2' LT								1										1								1	628.50	622.68	5.20
PINE AVENUE																															
460+67	33F	22.4' LT							1													1						1	627.61	619.38	7.65
460+62	33G	20.5' RT								1																1		1	627.42	622.92	3.84
CEDAR AVENUE																															
480+59	44D	15.5' LT								1																1		1	628.60	624.10	3.84
480+60	44C	15.5' RT								1										1								1	628.58	622.29	5.67
HILL AVENUE																															
500+56	45B	14.5' LT								1										1								1	629.30	624.45	4.21
500+67	45C	17.4' RT								1																1		1	629.26	624.86	3.74
PROJECT 8680-00-71																															
CATEGORY 0070																															
BIRCH AVENUE																															
422+06	22F	18.8' RT								1										1								1	628.63	623.58	4.41
422+06	22G	18.2' LT							1																	1		1	628.59	623.68	4.27
CYPRESS AVENUE																															
430+67	23E	22.9' RT								1										1								1	628.07	622.82	4.63
431+84	EX	44.7' RT			1																								-	-	-
431+92	23EE	23.0' RT								1										1								1	627.84	623.38	3.84
432+10	23F	16.5' RT								1										1								1	627.93	623.48	3.83
432+10	23G	10.5' LT								1																1		1	628.06	624.14	3.27
432+51	23J	20.6' RT	1																									1	AEW	628.30	AEW
PINE AVENUE																															
461+64	33H	11.5' LT							1											1								1	625.91	620.36	4.93
461+64	33I	20.5' RT							1																	1		1	625.68	621.18	3.84
461+35	33FF	25.5' LT								1										1								1	626.16	620.21	5.33
ELM AVENUE																															
471+44	34C	13.5' LT							1																	1		1	626.56	622.06	3.84
472+01	34B	13.5' LT							1																	1		1	626.30	621.75	3.89
472+01	34E	13.5' RT							1																	1		1	626.59	622.10	3.83
472+07	34A	13.5' LT							1																	1		1	626.25	621.28	4.33
472+07	34D	13.5' RT							1																	1		1	626.32	621.52	4.15
472+07	34	21.6' LT				1												1										1	626.43	612.94	12.70
CEDAR AVENUE																															
481+48	44CC	15.5' RT							1																	1		1	628.54	622.47	5.45
481+63	44EE	29.5' RT								1																1		1	628.65	624.14	3.84
482+05	44F	13.5' LT								1																1		1	627.85	623.35	3.83
482+08	44E	13.5' RT							1											1								1	627.59	622.59	4.38
HILL AVENUE																															
500+91	45D	41' LT	1																									1	AEW	627.92	AEW
501+37	45F	15.0' LT								1																1		1	628.70	625.81	2.23
501+33	45E	37.1' LT	1																									1	AEW	626.87	AEW
501+37	45H	15.1' RT								1																1		1	628.71	625.90	2.15
501+79	45G	23' LT						1											1									1	629.20	625.95	2.17
STAGE 2 YEAR 1 SUBTOTALS			3	0	2	5	0	2	25	29	0	0	4	0	0	0	1	0	2	17	3	0	0	0	0	34	0	64			

CONT. STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 TYPE H EACH	611.0639 TYPE H-S EACH	611.0645 TYPE MS-A EACH	SPV.0060.030 TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 5-FT DIA EACH	611.2006 6-FT DIA EACH	611.2007 7-FT DIA EACH	611.2008 8-FT DIA EACH	SPV.0060.029 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 4-FT DIA EACH	SPV.0060.031 5-FT DIA SPECIAL EACH	SPV.0060.032 6-FT DIA SPECIAL EACH	SPV.0060.033 7-FT DIA SPECIAL EACH	SPV.0060.034 8-FT DIA SPECIAL EACH	SPV.0060.035 10-FT DIA SPECIAL EACH	611.3230 2x3-FT EACH	611.3901 MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
PROJECT 8680-00-71																														
CATEGORY 0060																														
STAGE 5 YEAR 2																														
BELKNAP STREET																														
148+49	1	33.5' RT							1												1							1	640.11	632.94	6.59
149+07	1F	33.5' RT				1									1													1	640.54	631.74	7.88
149+31	2	33.5' RT							1												1							1	640.56	631.64	8.09
149+75	3	38.4' RT										1									1							1	640.61	631.53	8.58
151+90	3A	35.8' RT								1											1							1	640.67	630.97	9.20
152+22	4	33.5' RT							1															1				1	640.65	630.39	9.81
155+50	5	38.3' RT							1														1					1	639.27	629.61	9.21
155+92	6	33.5' RT							1														1					1	639.23	629.51	9.27
156+13	7	39.5' RT							1															1				1	638.97	628.96	9.59
156+85	8	40.7' RT							1															1				1	638.75	628.79	9.54
157+48	8GG	55.0' RT								1																	1	1	638.62	634.45	3.51
158+40	9A	39.5' RT										1												1				1	637.95	628.42	9.11
159+32	9	39.5' RT							1															1				1	637.83	628.19	9.14
159+95	10	33.5' RT							1																	1		1	637.58	628.07	9.27
162+50	11	39.5' RT							1															1				1	636.00	627.55	7.96
163+10	12	35.9' RT							1															1				1	635.86	627.42	7.94
163+63	13K	33.5' RT							1																		1	1	635.40	631.12	3.62
163+75	13	17' RT				1											1											1	635.96	627.29	7.83
164+20	14	17' RT				1													1									1	635.81	625.16	10.33
167+34	15G	33.5' RT							1											1								1	634.61	628.31	5.66
166+69	15H	39.5' RT								1																	1	1	634.44	629.94	3.84
167+48	15	17' RT				1													1									1	635.03	624.58	10.12
170+33	17G	38.8' RT										1															1	1	633.05	628.55	3.84
171+01	17	17' RT				1													1									1	633.15	623.88	9.02
171+01	17F	34.5' RT							1																		1	1	632.67	628.17	3.84
173+36	18E	34.5' RT							1																		1	1	631.70	627.20	3.84
173+46	18DD	34.5' RT							1											1								1	631.66	626.85	4.17
173+80	18D	35.8' RT							1												1							1	631.49	625.30	5.57
173+94	18	17' RT					1												1									1	632.01	623.29	8.47
174+55	18F	34.5' RT							1																		1	1	631.69	627.19	3.84
177+87	19I	43.4' RT								1																	1	1	631.30	626.83	3.81
178+19	19H	60.5' RT							1																		1	1	632.45	627.46	4.33
178+21	19HH	52.5' RT				1								1														1	632.29	626.67	4.54
178+50	19	17' RT				1													1									1	631.78	622.38	9.15
179+21	19JJ	50.5' RT								1																	1	1	630.76	626.76	3.34
181+63	20D	34.5' RT							1																		1	1	630.36	625.88	3.82
181+75	20C	34.5' RT								1																	1	1	630.32	625.78	3.87
181+75	20	17' RT					1												1									1	630.80	621.73	8.82
182+52	21	17' RT				1													1									1	631.06	621.57	9.24
JOHN AVENUE																														
298+80	2G	14.5' LT								1																	1	1	639.32	634.82	3.84
298+80	2F	14.5' RT								1											1							1	639.32	633.54	5.20
HUGHITT AVENUE																														
309+32	4I	12.5' LT										1									1							1	639.85	632.33	6.94
309+37	4J	16.5' RT								1													1					1	639.86	632.59	6.69
HAMMOND AVENUE																														
329+39	8G	30.1' RT							1																		1	1	638.68	633.90	4.12
329+42	7A	27.9' LT								1										1								1	638.82	630.45	7.79
CUMMING AVENUE																														
339+44	10G	7' LT							1											1								1	636.87	628.70	7.59
339+46	10H	19.7' RT								1											1							1	636.92	629.88	7.46
BAXTER AVENUE																														
349+31	14A	17.7' RT								1															1			1	635.04	626.44	8.27
349+31	14B	17.7' LT								1																	1	1	635.11	630.38	4.06
LAMBORN AVENUE																														
359+32	15J	23.5' RT								1										1								1	633.72	628.81	4.29
359+22	15I	23.5' LT								1										1								1	633.88	628.70	4.55
STAGE 5 YEAR 2 SHEET SUBTOTAL			0	0	0	8	2	0	22	15	0	4	1	0	1	1	0	7	0	6	8	3	6	2	1	15	0	51			

CONT. STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	SPV.0060.030 TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.029 MANHOLES 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 INLETS 4-FT DIA EACH	SPV.0060.031 INLETS 5-FT DIA SPECIAL EACH	SPV.0060.032 INLETS 6-FT DIA SPECIAL EACH	SPV.0060.033 INLETS 7-FT DIA SPECIAL EACH	SPV.0060.034 INLETS 8-FT DIA SPECIAL EACH	SPV.0060.035 INLETS 10-FT DIA SPECIAL EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
CLOUGH AVENUE																															
389+22	18H	19.3' RT								1																			1	630.67	626.17	3.84
389+24	18G	18.8' LT								1										1									1	630.67	625.50	4.55
FISHER AVENUE																															
398+20	EX	34.6' RT			1																									630.96	EX	-
398+36	19L	29.9' LT								1																			1	631.63	625.59	5.37
398+41	19M	22' RT								1																			1	630.37	625.67	4.14
398+33.50	19K	15.5' LT								1										1									1	630.53	625.25	4.64
398+54.50	19MM	25.0' RT								1																			1	630.24	625.74	3.84
399+39	19J	15.5' RT								1																			1	630.73	626.60	3.47
399+39	19G	15.5' LT								1										1									1	630.73	624.66	5.45
CATLIN AVENUE																															
408+04	EX	29.3' RT			1																										
408+05	21L	33' LT							1																1				1	629.87	618.91	10.42
408+40	21K	21.5' RT							1																				1	629.56	625.74	3.16
408+50	21J	21.5' RT								1																			1	629.53	625.44	3.45
408+50	21I	35' LT										1								1									1	629.48	625.28	3.56
409+38	21H	19.1' LT							1																				1	630.18	625.28	4.23
409+43	21G	21.3' RT							1											1									1	630.00	624.85	4.51
PROJECT 8680-00-71																															
CATEGORY 0070																															
JOHN AVENUE																															
297+82	2I	14.4' RT							1																				1	639.79	635.29	3.84
297+87	2K	14' LT							1																				1	639.73	635.23	3.84
297+90	2H	14.5' RT							1												1									1	639.73	634.10	5.05
297+95	2J	14' LT							1											1										1	639.69	634.69	4.38
298+70	2FF	14.5' RT							1											1										1	639.58	633.61	5.39
HUGHITT AVENUE																															
307+88	4M	14.5' LT							1																				1	639.78	634.68	4.44
307+88	4N	14.5' RT							1																				1	639.29	634.68	3.95
308+07	4L	13.8' LT										1								1									1	639.23	634.11	4.50
308+07	4K	15.2' RT										1								1									1	639.25	633.50	5.17
CUMMING AVENUE																															
338+04	10M	14.5' LT							1																				1	635.91	631.50	3.75
338+19	EX	0.0' LT			1																									636.46	EX	-
338+25	10J	14.5' LT										1								1									1	636.05	630.33	5.08
338+25	10L	18.9' RT										1								1									1	635.81	629.49	5.90
338+36	10K	25.5' LT								1																			1	635.81	631.45	3.70
338+50	10I	25.3' RT								1										1									1	636.13	629.36	6.19
BAXTER AVENUE																															
348+00	14E	11.5' RT							1																	1			1	635.10	626.72	8.05
348+00	14F	11.5' LT							1																			1	1	635.05	630.54	3.84
348+17	EX	0.0' LT			1																									635.50	EX	-
348+26	14P	15.3' LT					1						1																1	635.30	628.48	5.99
348+33	14C	19.5' RT								1																1			1	634.98	626.65	7.90
348+33	14D	19.5' LT								1																		1	1	635.05	630.56	3.82
CLOUGH AVENUE																															
387+90	18I	11.4' RT							1											1									1	628.39	624.10	3.65
387+91	18J	11.4' LT							1																			1	1	628.09	624.16	3.28
388+12	EX435	0.4' RT			1	1																								629.30	EX	-
PROJECT 8998-00-24																															
CATEGORY 0010																															
HAMMOND AVENUE																															
327+86	7C	32.3' LT							1																				1	637.68	633.06	3.96
327+86	7E	29.6' RT							1																				1	637.74	633.13	3.95
327+95	7B	32.5' LT								1										1									1	637.73	631.75	5.40
327+95	7D	29.7' RT								1																			1	637.72	632.83	4.25
LAMBORN AVENUE																															
358+23	EX	18.8' LT			1	1																								634.74	EX	-
358+36	15M	23.2' LT							1																				1	634.46	630.04	3.76
GRAND AVENUE																															
100+59	15L	14.5' RT								1																			1	633.49	629.76	3.06
100+60	15K	17.7' LT								1																			1	633.40	629.62	3.11
STAGE 5 YEAR 2 SUBTOTAL			0	0	6	10	3	0	41	32	0	9	2	0	1	1	0	7	0	20	9	3	7	4	1	38	0		93			

CONT. STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	SPV.0060.030 INLET COVERS TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.029 MANHOLES 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 INLETS 4-FT DIA EACH	SPV.0060.031 INLETS 5-FT DIA SPECIAL EACH	SPV.0060.032 INLETS 6-FT DIA SPECIAL EACH	SPV.0060.033 INLETS 7-FT DIA SPECIAL EACH	SPV.0060.034 INLETS 8-FT DIA SPECIAL EACH	SPV.0060.035 INLETS 10-FT DIA SPECIAL EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
PROJECT 8680-00-71																														
CATEGORY 0060																														
STAGE 6 YEAR 2																														
BELKNAP STREET																														
148+49	1A	33.5' LT							1											1								1	640.35	633.07	6.70
149+34	2A	33.5' LT							1																		1		1	640.38	635.70	4.02
149+70	2B	37.7' LT								1																	1		1	640.32	635.87	3.79
151+90	4AA	35.8' LT							1																		1		1	640.39	635.95	3.78
152+22	4A	33.5' LT							1											1									1	640.38	632.65	7.15
155+17	6B	38.8' LT								1																	1		1	639.12	634.62	3.84
155+92	6A	33.5' LT							1																		1		1	638.98	634.21	4.11
156+81	8A	39.0' LT								1										1									1	638.49	633.00	4.85
159+32	10B	39.5' LT							1																		1		1	637.59	633.09	3.84
159+93	10A	33.5' LT							1											1									1	637.35	629.41	7.36
162+82	13B	39.5' LT								1																	1		1	635.62	631.12	3.84
163+62	13A	33.5' LT							1											1									1	635.75	628.19	6.94
166+55	15B	39.5' LT							1																		1		1	634.72	630.22	3.84
167+15	15A	33.5' LT							1											1									1	634.60	629.60	4.34
167+43	15AA	33.5' LT				1							1																1	634.46	626.84	6.62
170+42	17B	39.5' LT							1																		1		1	632.74	628.24	3.84
171+01	17A	34.5' LT							1													1							1	632.43	624.80	6.05
171+21	17CC	32.4' LT				1							1																1	632.49	625.40	7.09
173+41	18CC	55.5' LT								1																	1		1	633.02	627.55	4.80
173+45	18C	39.5' LT							1											1									1	631.32	626.57	4.11
173+98	18B	39.5' LT								1										1									1	631.18	626.32	4.22
174+19	18A	39.5' LT							1													1							1	631.21	625.30	5.33
174+23	18AA	69' LT								1																	1		1	633.51	628.46	4.39
177+96	19B	38.6' LT								1																	1		1	631.13	626.63	3.84
178+48	19A	36.6' LT							1											1									1	630.97	622.77	7.62
181+63	20B	34.5' LT							1																		1		1	630.12	625.64	3.82
181+73	20A	34.5' LT								1																	1		1	630.08	625.54	3.87
JOHN AVENUE																														
300+64	1B	11.4' LT							1											1									1	639.85	633.70	5.53
300+64	1C	11.6' RT										1															1		1	639.83	635.33	3.84
HUGHITT AVENUE																														
310+56	4B	12.4' LT								1										1									1	639.83	633.50	5.75
310+56	4C	12.6' RT								1										1									1	639.82	633.65	5.55
HAMMOND AVENUE																														
330+55	8B	24.8' RT								1										1									1	638.54	633.25	4.64
330+80	8D	35.5' LT							1																		1		1	638.53	634.03	3.83
330+82	8C	30.1' RT							1																		1		1	638.46	633.75	4.05
CUMMING AVENUE																														
340+64	10C	17.6' LT								1										1									1	636.44	629.55	6.31
340+79	10D	26.0' RT										1										1							1	636.48	629.72	6.18
BAXTER AVENUE																														
350+62	13C	10.5' LT								1										1									1	635.05	628.45	5.98
350+78	13D	18.5' RT								1																	1		1	634.89	630.39	3.84
GRAND AVENUE																														
370+72	15C	29.5' LT								1										1									1	633.59	627.03	5.98
370+82	15D	29.5' RT								1																	1		1	633.50	629.01	3.83
WEEKS AVENUE																														
380+63	17C	14.3' RT							1											1									1	631.43	625.62	5.18
FISHER AVENUE																														
400+63	19C	19.5' LT								1										1									1	630.23	622.87	6.78
400+62	19D	19.5' RT								1										1									1	630.45	623.00	6.87
CATLIN AVENUE																														
410+62	21A	19' LT								1										1									1	630.00	623.20	6.17
410+62	21C	20' RT								1										1									1	629.76	623.30	5.84
STAGE 6 YEAR 2 SHEET SUBTOTAL			0	0	0	2	0	0	20	21	0	2	2	0	0	0	0	0	0	21	3	0	0	0	0	19	0	45			

CONT. STORM SEWER STRUCTURE ITEMS

STATION*	STRUCTURE	LOCATION*	522.1012 APRON ENDWALLS RCP 12-INCH EACH	522.1015 APRON ENDWALLS RCP 15-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	SPV.0060.030 INLET COVERS TYPE H-D EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.029 MANHOLES 10-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	611.3004 INLETS 4-FT DIA EACH	SPV.0060.031 INLETS 5-FT DIA SPECIAL EACH	SPV.0060.032 INLETS 6-FT DIA SPECIAL EACH	SPV.0060.033 INLETS 7-FT DIA SPECIAL EACH	SPV.0060.034 INLETS 8-FT DIA SPECIAL EACH	SPV.0060.035 INLETS 10-FT DIA SPECIAL EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	TOP OF CASTING/RIM ELEVATION	INVERT OUT ELEVATION	DEPTH OF STRUCTURE**
PROJECT 8680-00-71																															
CATEGORY 0070																															
JOHN AVENUE																															
301+52	1D	14.5' LT								1										1									1	639.38	634.04	4.72
301+52	1E	14.5' RT								1																		1	1	639.38	634.68	4.04
301+88	EX	29.2' RT			1	1																								639.82	EX	-
HUGHITT AVENUE																															
311+57	4G	20.5' LT							1																			1	1	639.14	635.14	3.34
311+75	4P	22.5' LT				1							1																1	640.46	633.96	5.35
311+82	4D	12.5' RT										1								1									1	639.09	634.27	4.20
311+82	4F	14.5' LT										1								1									1	639.05	634.79	3.62
311+77	EX	22.0' RT			1	1																								EX	EX	-
311+90	4E	12.5' RT										1																1	1	639.12	634.62	3.84
CUMMING AVENUE																															
341+46	10E	26' RT								1										1									1	636.41	630.59	5.19
341+95	10FF	8.0' LT							1																			1	1	636.33	631.15	4.54
341+84	10P	33.4' RT				1							1																1	636.72	631.28	4.20
342+00	10EE	20' RT							1											1									1	636.30	630.75	4.93
342+21	10F	14.5' LT								1																		1	1	636.23	631.73	3.84
BAXTER AVENUE																															
351+04	13E	16.5' LT								1												1							1	635.26	628.75	5.89
351+52	13G	16.5' LT								1												1							1	634.94	628.97	5.34
351+60	13L	24.5' LT								1																		1	1	634.94	630.44	3.84
351+69	13GG	18.5' RT								1																		1	1	634.74	630.24	3.84
351+80	13P	32.6' LT				1							1																1	635.22	631.65	2.33
351+94	13O	110.0' LT								1																		1	1	634.69	630.69	3.34
351+94	13N	36.5' LT							1																			1	1	634.86	630.34	3.86
351+96	13M	13.0' LT							1											1									1	634.65	629.05	4.98
352+23	13J	21' RT							1																			1	1	634.40	629.90	3.84
352+24	13I	21.1' LT							1																			1	1	634.38	629.69	3.97
WEEKS AVENUE																															
381+26	17D	14.5' RT								1										1									1	631.16	625.85	4.69
381+26	17E	20.5' LT								1																		1	1	631.04	626.24	4.16
FISHER AVENUE																															
401+58	19DD	19.5' RT							1											1									1	629.58	624.16	4.80
401+68	19E	19.5' RT								1										1									1	629.50	624.48	4.38
401+80.60	EX	49.0' LT			1																									-	EX	-
401+93	19F	27.5' LT								1																		1	1	629.41	624.67	4.10
PROJECT 8998-00-24																															
CATEGORY 0010																															
GRAND AVENUE																															
372+00	15E	26.5' LT							1											1									1	633.33	627.94	4.77
372+00	15F	29.1' RT								1																		1	1	633.22	628.72	3.83
CATLIN AVENUE																															
412+25	21D	19.4' RT									1																	1	1	628.40	623.93	4.85
412+25	21E	20.9' LT									1																	1	1	628.40	624.30	4.46
STAGE 6 YEAR 2 SUBTOTALS			0	0	3	7	0	0	29	35	2	5	5	0	0	0	0	0	0	31	3	2	0	0	0	33	2	76			
PROJECT 8680-00-71 CATEGORY 0060 TOTALS			1	1	9	22	3	1	84	86	1	10	7	1	1	2	0	11	1	56	15	6	7	2	1	93	1	206			
PROJECT 8680-00-71 CATEGORY 0070 TOTALS			3	0	7	8	1	1	32	27	0	7	5	0	0	0	1	0	1	25	1	2	0	2	0	36	0	76			
PROJECT 8998-00-24 CATEGORY 0010 TOTALS			0	0	1	1	0	0	7	7	2	0	0	0	0	0	0	0	0	4	0	0	0	0	0	10	2	16			
PROJECT ITEM TOTALS			4	1	17	31	4	2	123	120	3	17	12	1	1	2	1	11	2	85	16	8	7	4	1	139	3	298			

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE. DEPENDING ON MANHOLE BUILD ADJUST OFFSET TO KEEP CENTER OF MANHOLE COVER AT THE PLAN OFFSET AND OUT OF WHEEL PATH.
**DEPTH = RIM ELEVATION - LOWEST PIPE OUT INVERT ELEVATION + PIPE THICKNESS - COVER HEIGHT - 6" ADJUSTMENT

3

ADJUSTING MANHOLE COVERS

STATION	LOCATION	611.8110 EACH	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 1 YEAR 1			
BELKNAP STREET			
136+88.40	70.6' RT	1	EXISTING STORM
196+55.00	54.4' RT	1	EXISTING STORM
STAGE 1 YEAR 1 SUBTOTAL		2	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		2	
PROJECT ITEM TOTAL		2	

ADJUSTING INLET COVERS

STATION	LOCATION	611.8115 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 1 YEAR 1		
BELKNAP STREET		
136+66.70	41.7' RT	1
STAGE 1 YEAR 1 SUBTOTAL		1
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 2 YEAR 1		
BELKNAP STREET		
137+09	99.4' LT	1
PROJECT 8680-00-71		
CATEGORY 0070		
CYPRESS AVENUE		
430+59	8' LT	1
STAGE 2 YEAR 1 SUBTOTAL		2
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 5 YEAR 2		
FISHER AVENUE		
398+09	30.1' RT	1
STAGE 5 YEAR 2 SUBTOTAL		1
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		3
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		1
PROJECT ITEM TOTAL		4

PIPE GRATES

STATION	LOCATION	611.9800.S EACH	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 1 YEAR 1			
BELKNAP STREET			
185+59	59.8' RT	1	15-INCH
MORTORELLI DRIVE			
438+72	32.5' RT	1	12-INCH
STAGE 1 YEAR 1 SUBTOTALS		2	
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 2 YEAR 1			
CYPRESS DRIVE			
432+51	20.6' RT	1	12-INCH
HILL AVENUE			
500+91	41.0' RT	1	12-INCH
STAGE 2 YEAR 1 SUBTOTALS		2	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		2	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		2	
PROJECT ITEM TOTAL		4	

3

3

MARKERS CULVERT END

STATION	LOCATION	633.5200 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 1 YEAR 1		
BELKNAP STREET		
185+59	59.8' RT	1
MORTORELLI DRIVE		
438+72	32.5' RT	1
STAGE 1 YEAR SUBTOTALS		2
PROJECT 8680-00-71		
CATEGORY 0070		
STAGE 2 YEAR 1		
CYPRESS DRIVE		
432+61	20.6' RT	1
HILL AVENUE		
500+91	41.0' LT	1
501+33	37.1' LT	1
STAGE 2 YEAR 1 SUBTOTALS		3
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		2
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		3
PROJECT ITEM TOTAL		5

GEOTEXTILE FABRIC TYPE HR

STATION	LOCATION	645.0120 SY
PROJECT 8680-00-71		
CATEGORY 0070		
STAGE 2 YEAR 1		
HILL AVENUE		
501+33	37.1' LT	10
STAGE 2 YEAR 1 SUBTOTAL		10
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		10
PROJECT ITEM TOTAL		10

FLOWABLE FILL

STATION - STATION	LOCATION	SPV.0035.001 * CY	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 2 YEAR 1			
BELKNAP STREET			
145+75 - 148+43.59	CL	8	EXISTING 12" COMBINED SEWER
STAGE 2 YEAR 1 SUBTOTAL		8	
PROJECT 8998-00-24			
CATEGORY 0010			
STAGE 5 YEAR 2			
HAMMOND AVENUE			
327+59 - 327+81	LT & RT	2	EXISTING 15" STORM SEWER
STAGE 5 YEAR 2 SUBTOTAL		2	
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 6 YEAR 2			
JOHN AVENUE			
301+52 - 301+90	LT	3	EXISTING 8" COMBINED SEWER
HAMMOND AVENUE			
330+90 - 331+84	LT	3	EXISTING 12" STORM SEWER
STAGE 6 YEAR 2 SUBTOTAL		6	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		8	
PROJECT 8998-00-24 CATEGORY 0010 TOTALS		2	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		6	
PROJECT ITEM TOTAL		16	* QUANTITIES ALSO SHOWN ELSEWHERE.

ADJUST SANITARY MANHOLE COVERS

STATION	LOCATION	SPV.0060.048 EACH	COMMENT
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 1 YEAR 1			
BELKNAP STREET			
188+92.70	46.4' RT	1	EXISTING SANITARY
191+30.40	30.4' RT	1	EXISTING SANITARY
191+77.43	48.7' RT	1	EXISTING SANITARY
198+22.00	34.5' RT	1	EXISTING SANITARY
198+22.49	10.6' RT	1	EXISTING SANITARY
MORTORELLI DRIVE			
439+54.00	23.2' LT	1	EXISTING SANITARY
439+55.00	51.1' LT	1	EXISTING SANITARY
ELM DRIVE			
467+67	18.5' RT	1	EXISTING SANITARY
STAGE 1 YEAR 1 SUBTOTAL		8	
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 2 YEAR 1			
BIRCH AVENUE			
421+36	1.7' LT	1	EXISTING SANITARY
STAGE 2 YEAR 1 SUBTOTAL		1	
PROJECT 8680-00-71			
CATEGORY 0070			
STAGE 5 YEAR 2			
CATLIN AVENUE			
408+17	33.0 RT	1	EXISTING SANITARY
408+19	0.4' RT	1	EXISTING SANITARY
STAGE 5 YEAR 2 SUBTOTAL		2	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		11	
PROJECT ITEM TOTAL		11	

TEMPORARY CONNECTION TO EXISTING STORM SEWER PIPE

STATION	LOCATION	SPV.0060.037 EACH
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 1 YEAR 1		
BELKNAP STREET		
185+47	CL	1
188+76	CL	1
191+22	CL	1
194+19	CL	1
198+62	CL	1
201+95	CL	1
STAGE 1 YEAR 1 SUBTOTAL		6
PROJECT 8680-00-71		
CATEGORY 0060		
STAGE 5 YEAR 2		
BELKNAP STREET		
163+71	CL	1
174+02	CL	1
178+50	CL	1
182+48	CL	1
STAGE 5 YEAR 2 SUBTOTAL		4
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		10
PROJECT ITEM TOTAL		10

3

EXPLORATORY EXCAVATION

STATION	LOCATION	SPV.0060.090 EACH	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 1 YEAR 1			
BELKNAP STREET			
201+25	45.6' RT	1	EXISTING SANITARY CROSSING
UNDISTRIBUTED		2	
PROJECT 8998-00-24			
CATEGORY 0010			
HILL AVENUE			
498+46	25.5' LT	1	EXISTING 6-INCH PVC PIPE
UNDISTRIBUTED	RT	1	
STAGE 1 YEAR 1 SUBTOTAL		5	
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 5 YEAR 2			
CATLIN AVNEUE			
408+19	33.5' LT	1	EXISTING SANITARY CROSSING
UNDISTRIBUTED	RT	4	
STAGE 5 YEAR 2 SUBTOTAL		5	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		8	
PROJECT 8998-00-24 CATEGORY 0010 TOTALS		2	
PROJECT ITEM TOTAL		10	

LOW PERMEABLE PLUG

STATION - STATION	LOCATION	SPV.0060.039 EACH	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 6 YEAR 2			
BELKNAP STREET			
149+33	20.0' LT	1	
JOHN AVENUE			
300+64	6.0' RT	1	
STAGE 6 YEAR 2 SUBTOTAL		2	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		2	
PROJECT ITEM TOTAL		2	

SCHEDULE 40 PVC PERFORATED 6-INCH

STATION	LOCATION	SPV.0090.002 LF	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 5 YEAR 2			
BELKNAP STREET			
148+49 - 191+25	RT	4279	MEASURED CENTER TO CENTER MH 1 - MH 24
449+83 - 450+61	LT & CL	90	MEASURED CENTER TO CENTER MH 24 - MH 25
PROJECT 8680-00-71			
CATEGORY 0070			
BAXTER AVENUE			
348+00 - 349+83	RT	184	MEASURED CENTER TO CENTER INL 14E - MH 14
STAGE 5 YEAR 2 SUBTOTAL		4553	
PROJECT 8680-00-71 CATEGORY 0060 TOTALS		4369	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		184	
PROJECT ITEM TOTAL		4553	

PVC PIPE

STATION	LOCATION	SPV.0090.015 4-INCH LF	SPV.0090.016 6-INCH LF	SPV.0090.017 8-INCH LF	SPV.0090.018 10-INCH LF	COMMENT
PROJECT 8998-00-24						
CATEGORY 0010						
STAGE 1 YEAR 1						
HILL AVENUE						
498+12	LT		5			INLET 46D
STAGE 1 YEAR 1 SUBTOTALS		0	5	0	0	
PROJECT 8680-00-71						
CATEGORY 0070						
STAGE 5 YEAR 2						
BAXTER AVENUE						
348+26	LT	5				PIPE 14P1
348+26	LT	5				PIPE 14P2
348+26	LT				5	PIPE 14P3
STAGE 5 YEAR 2 SUBTOTALS		10	0	0	5	
PROJECT 8680-00-71						
CATEGORY 0070						
STAGE 6 YEAR 2						
HUGHITT AVENUE						
312+00	LT		6			PIPE 4P1
312+00	LT			5		PIPE 4P2
STAGE 6 YEAR 2 SUBTOTALS		0	6	5	0	
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		10	6	5	5	
PROJECT 8998-00-24 CATEGORY 0010 TOTALS		0	5	0	0	
PROJECT ITEM TOTAL		10	11	5	5	

SCHEDULE 80 PVC PERFORATED

STATION	LOCATION	SPV.0090.003 8-INCH LF	COMMENT
PROJECT 8680-00-71			
CATEGORY 0060			
STAGE 5 YEAR 2			
BELKNAP STREET			
158+40	49.7' RT	10	9AA TO 9A ROOF DRAIN
STAGE 5 YEAR 2 SUBTOTALS		10	
PROJECT 8680-00-71 CATEGORY 0060 TOTAL		10	
PROJECT ITEM TOTAL		10	

CONSTRUCTION STAKING STORM WATER BASIN

STATION	LOCATION	SPV.0105.052 LS
PROJECT 8680-00-71		
CATEGORY 0070		
STAGE 2 YEAR 1		
HILL AVENUE		
501+20	LT	1
STAGE 2 YEAR 1 SUBTOTAL		1
PROJECT 8680-00-71 CATEGORY 0070 TOTALS		1
PROJECT ITEM TOTAL		1

3

PULL BOX ITEMS

NO.	LOCATION	653.0145 PULL BOXES STEEL 24" X 48" EACH
PROJECT 8680-00-71		
CAT 0040		
STAGE 1-3 (YEAR 1)		
PB-1	138+19, 36.9 LT	1
PB-2	138+09, 37.9 RT	1
PB-3	140+72, 37.1 LT	1
PB-4	140+71, 37.2 RT	1
PB-5	142+04, 40.5 LT	1
PB-6	142+03, 38.5 RT	1
PB-7	144+71, 40.9 LT	1
PB-8	144+71, 42.3 RT	1
PB-9	145+75, 41.3 LT	1
PB-10	145+73, 39.7 RT	1
PB-25	189+14, 37.9 LT	1
PB-26	467+85, 20.8 LT	1
PB-27	204+62, 37.9 RT	1
PB-28	207+73, 38.5 RT	1
PB-29	208+07, 51.3 LT	1
PB-30	208+69, 47.7 RT	1
PB-31	208+94, 45.6 LT	1
CAT 0040 STAGE 1-3 SUBTOTAL		**17**
PROJECT 8680-00-71		
CAT 0040		
STAGE 4-7 (YEAR 2)		
PB-11	155+81, 37.5 LT	1
PB-12	155+82, 41.3 RT	1
PB-13	157+04, 41.9 LT	1
PB-14	157+07, 41.6 RT	1
PB-15	167+16, 41.6 LT	1
PB-16	167+35, 41.0 RT	1
PB-17	168+30, 42.0 LT	1
PB-18	168+26, 42.1 RT	1
PB-19	171+81, 42.3 LT	1
PB-20	173+89, 49.4 RT	1
PB-21	182+01, 37.9 LT	1
PB-22	182+10, 42.6 RT	1
PB-23	183+05, 38.5 LT	1
PB-24	183+01, 42.7 RT	1
CAT 0040 STAGE 4-7 SUBTOTAL		**14**
PROJECT 8680-00-71 CAT 0040 TOT/		**31**

LIGHTING UNIT ITEMS

LIGHTING UNIT NO.	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.028 REMOVE LUMINAIRE EACH	SPV.0060.020 SALVAGE LIGHTING UNIT EACH	SPV.0060.021 LIGHTING UNIT TYPE SPECIAL 1 EACH	SPV.0060.022 LIGHTING UNIT TYPE SPECIAL 2 EACH	SPV.0060.026 LIGHTING UNIT TYPE SPECIAL 3 EACH	SPV.0060.023 CONCRETE BASES TYPE SPECIAL EACH	SPV.0060.027 INSTALL SALVAGED LIGHTING UNIT EACH
PROJECT 8680-00-71								
CAT 0040								
STAGE 1-3 (YEAR 1)								
EXISTING LIGHTING UNITS	41		41					
LCC-X-3	1							
LCC-X-4	1							
X-1				1				
X-2				1				
X-3				1			1	
X-4				1			1	
X-5				1			1	
X-6				1				
X-7				1				
X-8				1				
X-9				1				
X-10				1				
X-11				1				
A-1				1			1	
A-2				1			1	
A-3				1			1	
A-4				1			1	
A-5				1			1	
A-6				1			1	
A-7				1			1	
A-8				1			1	
A-9				1			1	
A-10				1			1	
A-11				1			1	
A-12				1			1	
A-13				1			1	
A-14				1			1	
A-15				1			1	
A-16				1			1	
A-17				1			1	
A-18				1			1	
D-11				1			1	
D-12				1			1	
D-13				1			1	
D-14				1			1	
D-15					1		1	
D-16					1		1	
D-17				1			1	
D-18				1			1	
D-19				1			1	
D-20				1			1	
D-21				1			1	
D-22				1			1	
D-23					1		1	
D-24					1		1	
D-25				1			1	
D-26				1			1	
D-27				1			1	
D-28				1			1	
D-29				1			1	
D-30				1			1	
D-31				1			1	
D-32				1			1	
D-33				1			1	
D-34				1			1	
CAT 0040 STAGE 1-3 SUBTOTAL	**43**		**41**	**49**	**4**		**45**	

3

CONT. LIGHTING UNIT ITEMS

LIGHTING UNIT NO.	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.028 REMOVE LUMINAIRE EACH	SPV.0060.020 SALVAGE LIGHTING UNIT EACH	SPV.0060.021 LIGHTING UNIT TYPE SPECIAL 1 EACH	SPV.0060.022 LIGHTING UNIT TYPE SPECIAL 2 EACH	SPV.0060.026 LIGHTING UNIT TYPE SPECIAL 3 EACH	SPV.0060.023 CONCRETE BASES TYPE SPECIAL EACH	SPV.0060.027 INSTALL SALVAGED LIGHTING UNIT EACH
D-35				1			1	
D-36				1			1	
D-37				1			1	
D-38				1			1	
D-39				1			1	
D-40				1			1	
E-1				1			1	
E-2				1			1	
E-3				1			1	
E-4				1			1	
E-5					1		1	
E-6					1		1	
E-7				1			1	
E-8				1			1	
E-9				1			1	
E-10				1			1	
E-11				1			1	
E-12				1			1	
E-13					1		1	
E-14					1		1	
E-15				1			1	
E-16				1			1	
E-17					1		1	
E-18					1		1	
E-19				1			1	
E-20				1			1	
E-21				1			1	
E-22				1			1	
E-23					1		1	
E-24					1		1	
E-25		1				1		
E-26		1				1		
E-27				1			1	
E-28				1			1	
E-29				1			1	
E-30				1			1	
E-35				1			1	
E-36				1			1	
CAT 0040 STAGE 1-3 TOTAL	**43**	**2**	**41**	**77**	**12**	**2**	**81**	

CONT. LIGHTING UNIT ITEMS

LIGHTING UNIT NO.	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.028 REMOVE LUMINAIRE EACH	SPV.0060.020 SALVAGE LIGHTING UNIT EACH	SPV.0060.021 LIGHTING UNIT TYPE SPECIAL 1 EACH	SPV.0060.022 LIGHTING UNIT TYPE SPECIAL 2 EACH	SPV.0060.026 LIGHTING UNIT TYPE SPECIAL 3 EACH	SPV.0060.023 CONCRETE BASES TYPE SPECIAL EACH	SPV.0060.027 INSTALL SALVAGED LIGHTING UNIT EACH
PROJECT 8680-00-71								
CAT 0040								
STAGE 4-7 (YEAR 2)								
EXISTING LIGHTING UNITS	33		33					
LCC-X-1	1							
LCC-X-2	1							
A-19				1			1	
A-20				1			1	
A-21					1		1	
A-22					1		1	
A-23					1		1	
A-24					1		1	
A-25				1			1	
A-26				1			1	
A-27				1			1	
A-28				1			1	
B-1				1			1	
B-2				1			1	
B-3				1			1	
B-4				1			1	
B-5					1		1	
B-6					1		1	
B-7					1		1	
B-8					1		1	
B-9				1			1	
B-10				1			1	
B-11				1			1	
B-12				1			1	
B-13				1			1	
B-14				1			1	
B-19				1			1	
B-20				1			1	
B-21				1			1	
B-22				1			1	
B-23					1		1	
B-24				1			1	
B-25				1			1	
B-26					1		1	
B-27					1		1	
B-28				1			1	
B-29				1			1	
B-30					1		1	
B-31				1			1	
B-32				1			1	
C-1				1			1	
C-2				1			1	
C-3				1			1	
C-4				1			1	
C-5					1		1	
C-6					1		1	
C-7					1		1	
C-8					1		1	
C-9				1			1	
C-10				1			1	
C-11				1			1	
C-12				1			1	
CAT 0040 STAGE 4-7 SUBTOTAL	**35**		**33**	**34**	**16**		**50**	

3

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\030200_MQ(LIGHTING).DWG
LAYOUT NAME - ****
PLOT DATE : 10/19/2016 7:37 PM PLOT BY : BILL MCELROY PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

CONT. LIGHTING UNIT ITEMS

LIGHTING UNIT NO.	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.028 REMOVE LUMINAIRE EACH	SPV.0060.020 SALVAGE LIGHTING UNIT EACH	SPV.0060.021 LIGHTING UNIT TYPE SPECIAL 1 EACH	SPV.0060.022 LIGHTING UNIT TYPE SPECIAL 2 EACH	SPV.0060.026 LIGHTING UNIT TYPE SPECIAL 3 EACH	SPV.0060.023 CONCRETE BASES TYPE SPECIAL EACH	SPV.0060.027 INSTALL SALVAGED LIGHTING UNIT EACH
C-13				1			1	
C-14				1			1	
C-19				1			1	
C-20				1			1	
C-21					1		1	
C-22				1			1	
C-23				1			1	
C-24					1		1	
C-25				1			1	
C-26				1			1	
C-27				1			1	
C-28				1			1	
C-29					1		1	
C-30					1		1	
C-31				1			1	
C-32				1			1	
C-33				1			1	
C-34				1			1	
C-35				1			1	
C-36				1			1	
C-37				1			1	
C-38				1			1	
C-39					1		1	
C-40				1			1	
D-1					1		1	
D-2				1			1	
D-3				1			1	
D-4				1			1	
D-5				1			1	
D-6				1			1	
CAT 0040 STAGE 4-7 TOTAL	**35**		**33**	**58**	**22**		**80**	
PROJECT 8998-00-24								
CAT 0010								
STAGE 1-3 (YEAR 1)								
E-31				1			1	
E-32				1			1	
E-33				1			1	
E-34				1			1	
CAT 0010 STAGE 1-3 SUBTOTAL				**4**			**4**	
STAGE 4-7 (YEAR 2)								
B-15				1			1	
B-16				1			1	
B-17				1			1	
B-18				1			1	
C-15				1			1	
C-16				1			1	
C-17				1			1	
C-18				1			1	
UWS LIGHTING UNITS	2		2				2	2
D-7					1		1	
D-8				1			1	
D-9					1		1	
D-10				1			1	
CAT 0010 STAGE 4-7 SUBTOTAL	**2**		**2**	**10**	**2**		**14**	**2**
PROJECT 8998-00-24 0010 TOTAL	**2**		**2**	**14**	**2**		**18**	**2**
PROJECT 8680-00-71 0040 TOTAL	**78**	**2**	**74**	**135**	**34**	**2**	**161**	
TOTAL (BOTH PROJECTS)	**80**	**2**	**76**	**149**	**36**	**2**	**179**	**2**

LIGHTING ELECTRICAL WIRE AND CONDUIT ITEMS

LIGHT POLE NUMBER	LIGHT POLE NUMBER	652.0205 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3/4-INCH LF	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
PROJECT 8680-00-71											
CAT 0040											
STAGE 1-3 (YEAR 1)											
X-2	X-3			22			174			282	282
X-3	X-4			37			174			141	141
X-4	X-5			86			348			288	288
A-1	A-2					67	174			231	231
A-2	PB-1			65		23	174			294	294
PB-1	A-4			75						255	255
A-4	A-6			114			174			372	372
A-6	PB-3			66			174			228	228
PB-3	PB-5			132						426	426
PB-5	A-8			73						249	249
A-8	A-10			111			174			363	363
A-10	PB-7			85			174			285	285
A-13	PB-7			51		18	174			237	237
PB-7	PB-8			83						558	558
PB-8	LCC-A			82		77				1014	1014
A-20	A-18			26							
A-18	A-16			97			174			321	321
A-16	PB-9			93			174			309	309
A-14	PB-9			55		84	174			894	894
PB-9	PB-7			104						342	342
PB-2	A-3			84			84				
A-3	A-5			114			174			372	372
A-5	PB-4			63			174			219	219
PB-4	PB-6			133						429	429
PB-6	A-7			77						261	261
A-7	A-9			114			174			372	372
A-9	PB-8			80			174			270	270
PB-8	A-11			142						912	912
A-11	LCC-A			20			174			180	180
A-19	A-17			26							
A-17	A-15			96			174			318	318
A-15	PB-10			95			174			315	315
A-12	PB-10			51		11	174			432	432
PB-10	PB-8			102						336	336
D-11	D-13			119			174			387	387
D-15	D-13			82			125			276	276
D-13	D-17			100			174			330	330
D-16	D-17			126			125			408	408
D-17	D-20			142			174			456	456
D-20	D-22			82			174			276	276
D-23	D-22			67			125			231	231
D-22	D-21			82			174			276	276
D-12	D-14			115			174			375	375
D-14	D-18			98			174			324	324
D-18	D-19			123			174			399	399
D-19	D-21			110			174			360	360
D-21	D-25			139			174			894	894
D-25	LCC-D			57			174			402	402
D-40	D-38			107			174			351	351
D-38	D-36			112			174			366	366
D-36	D-34			145			174			465	465
D-32	D-34			120			174			390	390
D-34	D-29			107			174			351	351
CAT 0040 STAGE 1-3 SUBTOTAL				4687		280	7071			18822	18822

CONT. LIGHTING ELECTRICAL WIRE AND CONDUIT ITEMS

LIGHT POLE NUMBER	LIGHT POLE NUMBER	652.0205 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3/4-INCH LF	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
PROJECT 8680-00-71											
CAT 0040											
STAGE 1-3 (YEAR 1)											
D-31	D-29			78			174			264	264
D-29	D-27			177			174			561	561
D-24	PB-25			118			125			384	384
PB-25	D-27			24						102	102
D-27	D-28			90			174			300	300
D-39	D-37			106			174			348	348
D-37	D-35			130			174			420	420
D-35	D-33			130			174			420	420
D-33	D-30			83			174			279	279
D-30	D-28			163			174			519	519
D-28	D-26			58			174			408	408
D-26	LCC-D			89			174			594	594
E-1	E-3			104			174			342	342
E-5	E-3			63			125			219	219
E-3	E-7			99			174			327	327
E-6	E-7			122			125			396	396
E-8	PB		43						159		
PB	RRFB		16						156		
PB	E-7		43						159		
E-7	E-9			99			174			327	327
E-9	E-11			117			174			381	381
E-17	E-11			81			125			273	273
E-11	E-12			81			174			273	273
E-2	E-4			103			174			339	339
E-4	E-8			99			174			327	327
E-8	E-10			99			174		218	327	327
E-10	E-12			117			174		254	381	381
E-12	E-13			130			174		280	840	840
E-13	PB-26			66			125		152	456	456
PB-26	LCC-E			42					104	312	312
EXISTING LIGHTING UNIT	E-36			133						429	429
E-36	PB-31			94			174			312	312
PB-31	E-28			130			174			420	420
E-24	E-28			145			125			465	465
E-28	E-22			122			174			396	396
E-23	E-22			63			125			219	219
E-22	E-19			114			174			372	372
E-19	E-16			112			174			366	366
E-18	E-16			137			125			441	441
E-16	E-15			81			174			273	273
EXISTING LIGHTING UNIT	E-35			48						357	357
E-35	PB-30			129			174			417	417
PB-30	PB-28			101						333	333
PB-28	E-29			135						435	435
E-29	E-27			124			174			402	402
E-26	E-27	15						93			
E-27	PB-27			58			174			204	204
E-25	PB-27	14						90			
PB-27	E-21			43				159		159	159
E-21	E-20			114			174			372	372
E-20	E-15			112			174			366	366
E-15	E-14			72			174			492	492
E-14	LCC-E			116			125			756	756
X-6	X-6						174				
X-7	X-7						174				
X-8	X-8						174				
X-9	X-9						174				
X-10	X-10						174				
X-11	X-11						174				
CAT 0040 STAGE 1-3 TOTAL		29	102	9538	280		14808	342	1482	36927	36927

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CONT. LIGHTING ELECTRICAL WIRE AND CONDUIT ITEMS

LIGHT POLE NUMBER	LIGHT POLE NUMBER	652.0205 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3/4-INCH LF	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
PROJECT 8680-00-71											
CAT 0040											
STAGE 4-7 (YEAR 2)											
A-18	A-20			55						273	273
A-23	A-20			75			174			30	30
A-20	A-26			90			174			30	30
A-24	A-26			119			125			30	30
A-26	A-28			95			174			30	30
A-28	B-2			110			284				
A-17	A-19			55						273	273
A-21	A-19			127			125			30	30
A-19	A-25			89			174			30	30
A-22	A-25			69			125			30	30
A-25	A-27			99			174			30	30
A-27	B-1			106			290				
B-2	B-4			86			174			288	288
B-5	B-4			64			125			222	222
B-4	B-10			87			174			291	291
B-6	B-10			148			125			474	474
B-10	B-12			85			174			285	285
B-12	B-14			98			174			324	324
B-14	PB-11			88			174			294	294
C-1	B-31			101			111				
B-31	B-29			86			174			288	288
B-30	B-29			119			125			387	387
B-29	B-24			94			174			312	312
B-23	B-24			78			125			264	264
B-24	B-22			88			174			294	294
B-22	B-19			102			174			336	336
B-19	PB-13			93			174			309	309
PB-13	PB-11			124						402	402
PB-11	PB-12			79						534	534
PB-12	LCC-B			137						882	882
B-1	B-3			86			174			288	288
B-7	B-3			123			125			399	399
B-3	B-4		89						297		
B-3	B-9			83			174		186	279	279
B-8	B-9			80			125			270	270
B-9	B-11			97			174		214	321	321
B-11	B-13			90			174		200	300	300
B-13	PB-12			89			174		198	297	297
C-2	B-32			85			85				
B-32	B-28			90			174			300	300
B-27	B-28			67			125			231	231
B-28	B-25			92			174			306	306
B-26	B-25			116			125			378	378
B-25	B-21			84			174			282	282
B-21	B-20			106			174			348	348
B-20	PB-14			92			174			306	306
C-1	C-3			93			174			309	309
C-7	C-3			63			125			219	219
C-3	C-9			80			174			270	270
C-8	C-9			115			125			375	375
C-9	C-11			92			174			306	306
C-11	C-13			100			174			330	330
CAT 0040 STAGE 4-7 SUBTOTAL		0		4769		0	7441		1095	13086	13086

CONT. LIGHTING ELECTRICAL WIRE AND CONDUIT ITEMS

LIGHT POLE NUMBER	LIGHT POLE NUMBER	652.0205 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3/4-INCH LF	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
PROJECT 8680-00-71											
CAT 0040											
STAGE 4-7 (YEAR 2)											
C-13	PB-15			86			174			288	288
PB-15	PB-17			114						372	372
D-2	C-37			110			120				
C-39	C-37			102			125			336	336
C-37	C-35			122			174			396	396
C-35	C-33			126			174			408	408
C-33	C-32			122			174			396	396
C-32	C-27			91			174			303	303
C-27	C-25			154			174			492	492
C-25	PB-19			29			174			117	117
C-24	PB-19			134			125			432	432
PB-19	C-22			82						552	552
C-21	C-22			72			125			246	246
C-22	C-19			137			174			441	441
C-19	PB-17			130			174			420	420
PB-17	PB-18			84						564	564
PB-18	LCC-C			93						618	618
C-2	C-4			102			174			336	336
C-5	C-4			123			125			399	399
C-4	C-10			93			174			309	309
C-6	C-10			70			125			240	240
C-9	PB		44						162		
PB	RRFB		7						102		
PB	C-10		45						165		
C-10	C-12			66			174		152	228	228
C-12	C-14			118			174		256	384	384
C-14	PB-16			105			174		230	345	345
PB-16	PB-18			91					202	303	303
D-3	C-38			91			101				
C-40	C-38			119			174			387	387
C-38	C-36			113			174			369	369
RRFB	PB			43					159		
RRFB	PB		15						150		
PB	RRFB			44					162		
RRFB	C-36		45						165		
C-36	C-34			140			174		300	450	450
C-34	C-31			121			174		262	393	393
C-30	C-31			62			125			216	216
C-31	PB-20			68			174		156	234	234
C-29	PB-20			102			125			336	336
PB-20	C-28			25					70	210	210
C-28	C-26			156			174		332	498	498
C-26	C-23			109			174		238	357	357
C-23	C-20			140			174		300	450	450
C-20	PB-18			135			174		290	435	435
D-1	D-2			134			125			432	432
D-2	D-5			129			174			417	417
D-5	PB-21			141			174			453	453
PB-21	PB-23			104						684	684
PB-23	D-11			107						351	351
D-4	D-3			67			174			231	231
D-3	D-6			143			174			459	459
D-6	PB-22			151			174			483	483
D-8	PB-22			154			174			492	492
PB-22	PB-24			91						606	606
D-10	PB-24				73		174			747	747
PB-24	D-12			116						378	378
CAT 0040 STAGE 4-7 TOTAL		0	156	10130	73		13882		4948	32079	32079

CONT. LIGHTING ELECTRICAL WIRE AND CONDUIT ITEMS

LIGHT POLE NUMBER	LIGHT POLE NUMBER	652.0205 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3/4-INCH LF	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
PROJECT 8998-00-24											
CAT 0010											
STAGE 1-3 (YEAR 1)											
E-32	PB-31			89			174			297	297
PB-31	PB-29			83						558	558
E-31	PB-29				42		174			468	468
PB-29	E-30			131						423	423
E-33	E-34			75			174			255	255
E-34	PB-30			43			174			318	318
CAT 0010 STAGE 1-3 TOTAL				421	42		696			2319	2319
PROJECT 8998-00-24											
CAT 0010											
STAGE 4-7 (YEAR 2)											
B-15	PB-11			77			174			30	30
B-16	PB-13			67		50	174			1104	1104
B-18	PB-14			70			174			480	480
PB-14	PB-12			125						405	405
PB-12	B-17			117					254	762	762
B-17	LCC-B			22			174		64	96	96
C-15	PB-15			86			125			576	576
C-17	PB-17			137			125			882	882
C-16	PB-16			119			174			774	774
PB-18	C-18			80					180	540	540
C-18	LCC-C			23			174		66	198	198
D-7	PB-21			139			125			447	447
D-9	PB-23				54		125			576	576
*** CAT 0010 STAGE 4-7 TOTAL**				1062	54	50	1544		564	6870	6870
PROJECT 8998-00-24 CAT 0010 TOTAL				1483	96	50	2240		564	9189	9189
PROJECT 8680-00-71 CAT 0040 TOTAL		29	258	19668	73	280	28690	342	6430	69006	69006
COMBINED TOTAL (BOTH PROJECTS)		29	258	21151	169	330	30930	342	6994	78195	78195

LIGHTING CONTROL CABINET

CABINET	STATION	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION)	SPV.0060.024 LIGHTING CONTROL CABINET BASES TYPE SPECIAL EACH	SPV.0060.025 LIGHTING CONTROL CABINET TYPE SPECIAL EACH	204.9060.S.002 REMOVING LIGHTING CONTROL CABINET EACH
PROJECT 8680-00-71					
CAT 0040					
STAGE 1-3 (YEAR 1)					
LCC-A	98+07, 21.0 LT	1	1	1	
LCC-D	438+33, 26.1 RT	1	1	1	
LCC-E	467+84, 21.4 RT	1	1	1	
LCC-X-3					1
LCC-X-4					1
PROJECT 8680-00-71 CAT 0040 TOTAL		3	3	3	2
PROJECT 8998-00-24					
CAT 0010					
STAGE 4-7 (YEAR 2)					
LCC-B	328+28, 44.8 LT	1	1	1	
LCC-C	100+49, 29.8 LT	1	1	1	
LCC-X-1					1
LCC-X-2					1
PROJECT 8998-00-24 CAT 0010 TOTAL		2	2	2	2
PROJECT TOTAL (BOTH PROJECTS)		5	5	5	4

INSTALLING TEMPORARY LIGHTING

LOCATION	SPV.105.070 INSTALLING TEMPORARY LIGHTING LS
PROJECT 8680-00-71	
CAT 0040	
PROJECT	1
TOTAL	1

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CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BANKS AVENUE	
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
CB1	1
***TOTAL	7

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF	652.0615 CONDUIT SPECIAL 3 INCH LF
PROJECT 8680-00-71, CAT 0020				
USH 2 (BELKNAP STREET) & BANKS AVENUE				
CB1	PB1		51	
PB1	PB2			220
PB2	PB3			94
PB3	PB4			110
PB4	PB5		106	
PB5	PB6			148
PB6	PB7		102	
PB7	PB8			168
PB8	PB9			40
PB8	CB1		66	
PB3	SB1		19	
PB3	SB2	11		
PB4	SB3		7	
PB5	SB4	8		
PB6	SB5		10	
PB7	SB6	22		
PB9	SB7		9	
PB9	SB8	9		
***TOTAL		50	370	780

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & BANKS AVENUE			
PB1	136+77.57	47.44' RT	1
PB2	136+76.76	62.27' LT	1
PB3	137+23.43	57.81' LT	1
PB4	137+78.03	58.22' LT	1
PB5	138+13.94	36.71' LT	1
PB6	138+14.49	37.27' RT	1
PB7	137+83.09	62.91' RT	1
PB8	136+98.83	67.15' RT	1
PB9	137+20.65	34.14' RT	1
		***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BANKS AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
***TOTAL	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.001 CONCRETE BASES TYPE 10 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.003 CONCRETE BASES TYPE 13 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
PROJECT 8680-00-71, CAT 0020							
USH 2 (BELKNAP STREET) & BANKS AVENUE							
SB1	137+11.93	42.74' LT	--	--	--	1	--
SB2	137+25.18	46.93' LT	1	--	--	--	--
SB3	137+78.42	51.71' LT	--	1	--	--	--
SB4	138+06.14	38.16' LT	1	--	--	--	--
SB5	138+04.37	38.17' RT	--	--	1	--	--
SB6	137+91.71	43.07' RT	1	--	--	--	--
SB7	137+21.45	43.14' RT	--	1	--	--	--
SB8	137+11.34	34.08' RT	1	--	--	--	--
CB1	136+76.91	64.38' RT	--	--	--	--	1
		***TOTAL	4	2	1	1	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 - 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & BANKS AVENUE			
SB1	HEAD 7	53	
SB1	HEAD 8	41	
SB1	HEAD 10		74
SB1	HEAD 22	15	
SB2	HEAD 14		22
SB2	HEAD 16	19	
SB2	HEAD 23	15	
SB3	HEAD 12	43	
SB3	HEAD 13	19	
SB3	HEAD 15		50
SB3	HEAD 24	15	
SB4	HEAD 4		22
SB4	HEAD 6	19	
SB4	HEAD 25	15	
SB5	HEAD 2	55	
SB5	HEAD 3	47	
SB5	HEAD 5		68
SB5	HEAD 26	15	
SB6	HEAD 11	19	
SB6	HEAD 19		22
SB6	HEAD 27	15	
SB7	HEAD 17	50	
SB7	HEAD 18	39	
SB7	HEAD 20		60
SB7	HEAD 28	15	
SB8	HEAD 1	19	
SB8	HEAD 9		22
SB8	HEAD 21	15	
	***TOTAL	538	340

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND)

FROM	TO	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & BANKS AVENUE		
CB1	SB1	252
CB1	SB2	244
CB1	SB3	311
CB1	SB4	314
CB1	SB5	226
CB1	SB6	171
CB1	SB7	114
CB1	SB8	114
	***TOTAL	1746

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & BANKS AVENUE			
CB1	SB1	252	--
SB1	LUMIN	--	123
SB1	SB3	121	--
SB3	LUMIN	--	123
CB1	SB7	114	--
SB7	LUMIN	--	123
SB7	SB5	266	--
SB5	LUMIN	--	123
	***TOTAL	753	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & BANKS AVENUE		
CB1	SB1	252
SB1	SB2	54
SB2	SB3	119
SB3	SB4	108
SB4	SB5	132
SB5	SB6	123
SB6	SB7	211
SB7	SB8	42
SB8	CB1	114
PB1	CB1	40
PB2	SB2	94
PB3	SB2	31
PB4	SB3	27
PB5	SB4	28
PB6	SB5	30
PB7	SB6	42
PB8	CB1	45
PB9	SB7	20
***TOTAL		1515

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & BANKS AVENUE		
CB1	SB1 (HEAD A)	328
CB1	SB5 (HEAD B)	297
CB1	SB7 (HEAD C)	175
CB1	SB3 (HEAD D)	362
***TOTAL		1162

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	SPV.0060.004 POLES TYPE 10 EACH	SPV.0060.005 POLES TYPE 13 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.007 MONOTUBE ARMS 20-FT EACH	SPV.0060.009 MONOTUBE ARMS 30-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.012 MONOTUBE ARMS 45-FT EACH	SPV.0060.013 LUMINAIRE ARMS STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0020												
USH 2 (BELKNAP STREET) & BANKS AVENUE												
SB1	--	--	--	1	--	--	--	--	1	1	1	1
SB2	1	1	--	--	--	--	--	--	--	--	1	--
SB3	--	--	1	--	--	1	--	--	--	1	1	1
SB4	1	1	--	--	--	--	--	--	--	--	1	--
SB5	--	--	--	--	1	--	--	1	--	1	1	1
SB6	1	1	--	--	--	--	--	--	--	--	1	--
SB7	--	--	1	--	--	--	1	--	--	1	1	1
SB8	1	1	--	--	--	--	--	--	--	--	1	--
***TOTAL	4	4	2	1	1	1	1	1	1	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0020													
USH 2 (BELKNAP STREET) & BANKS AVENUE													
1	SB8	1	--	1	--	--	1	1	1	--	--	--	--
2	SB5	1	--	1	--	--	1	1	1	--	--	--	--
3	SB5	1	--	1	--	--	1	1	1	--	--	--	--
4	SB4	--	1	--	1	--	--	--	--	1	2	1	--
5	SB5	--	1	--	1	--	--	--	--	1	2	1	--
6	SB4	1	--	1	--	--	1	1	1	--	--	--	--
7	SB1	1	--	1	--	--	1	1	1	--	--	--	--
8	SB1	1	--	1	--	--	1	1	1	--	--	--	--
9	SB8	--	1	--	1	--	--	--	--	1	2	1	--
10	SB1	--	1	--	1	--	--	--	--	1	2	1	--
11	SB6	1	--	1	--	--	1	1	1	--	--	--	--
12	SB3	1	--	1	--	--	1	1	1	--	--	--	--
13	SB3	1	--	1	--	--	1	1	1	--	--	--	--
14	SB2	--	1	--	1	--	--	--	--	1	2	1	--
15	SB3	--	1	--	1	--	--	--	--	1	2	1	--
16	SB2	1	--	1	--	--	1	1	1	--	--	--	--
17	SB7	1	--	1	--	--	1	1	1	--	--	--	--
18	SB7	1	--	1	--	--	1	1	1	--	--	--	--
19	SB6	--	1	--	1	--	--	--	--	1	2	1	--
20	SB7	--	1	--	1	--	--	--	--	1	2	1	--
21	SB6	--	--	--	--	1	--	--	--	--	--	--	1
22	SB1	--	--	--	--	1	--	--	--	--	--	--	1
23	SB2	--	--	--	--	1	--	--	--	--	--	--	1
24	SB3	--	--	--	--	1	--	--	--	--	--	--	1
25	SB4	--	--	--	--	1	--	--	--	--	--	--	1
26	SB5	--	--	--	--	1	--	--	--	--	--	--	1
27	SB6	--	--	--	--	1	--	--	--	--	--	--	1
28	SB7	--	--	--	--	1	--	--	--	--	--	--	1
	***TOTAL	12	8	12	8	8	12	12	12	8	16	8	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
USH 2 (BELKNAP STREET) & BANKS AVENUE

LOCATION	656.0200.001 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
PROJECT 8680-00-71, CAT 0020	
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.001 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BANKS AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.001 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & BANKS AVENUE	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & BANKS AVENUE		
CB1	--	1
SB1 (HEAD A)	1	--
SB5 (HEAD B)	1	--
SB7 (HEAD C)	1	--
SB3 (HEAD D)	1	--
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.001 REMOVE TRAFFIC SIGNALS LS	SPV.0105.009 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & BANKS AVENUE	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.041 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BANKS AVENUE	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.016 TRAFFIC SIGNAL CONTROLLER AND CABINET LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BANKS AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.023 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BANKS AVENUE	1
TOTAL	1

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)	
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
CB1	1
***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 CONDUIT SPECIAL 3-INCH LF
PROJECT 8680-00-71, CAT 0020				
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)				
CB1	PB1	--	51	--
PB1	PB2	--	88	--
PB2	PB3	--	--	156
PB3	PB4	--	94	--
PB4	PB5	--	--	148
PB5	PB6	--	102	--
PB6	PB7	--	--	150
PB7	PB8	--	104	--
PB8	PB9	--	--	154
PB8	CB1	--	81	--
PB2	SB1	7	--	--
PB3	SB2	--	7	--
PB3	SB3	5	--	--
PB4	SB4	17	--	--
PB5	SB5	--	17	--
PB6	SB6	5	--	--
PB7	SB7	--	6	--
PB7	SB8	3	--	--
PB8	SB9	12	--	--
PB9	SB10	--	12	--
***TOTAL		49	562	608

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)			
PB1	142+18.13	43.00' RT	1
PB2	141+75.56	60.96' RT	1
PB3	141+01.20	61.52' RT	1
PB4	140+62.64	36.64' RT	1
PB5	140+62.09	36.86' LT	1
PB6	140+99.61	65.11' LT	1
PB7	141+71.12	65.65' LT	1
PB8	142+08.29	37.12' LT	1
PB9	142+08.86	40.02' RT	1
***TOTAL			9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
***TOTAL	13

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.003 CONCRETE BASES TYPE 13 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
PROJECT 8680-00-71, CAT 0020						
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)						
SB1	141+80.91	52.48' RT	1	--	--	--
SB2	141+00.24	64.27' RT	--	--	1	--
SB3	140+96.29	53.77' RT	1	--	--	--
SB4	140+79.39	39.70' RT	1	--	--	--
SB5	140+78.97	38.72' LT		1	--	--
SB6	140+97.25	54.99' LT	1	--	--	--
SB7	141+72.57	65.58' LT	--	--	1	--
SB8	141+74.16	56.84' LT	1	--	--	--
SB9	141+96.66	38.81' LT	1	--	--	--
SB10	141+97.27	39.31' RT	--	1	--	--
CB1	142+35.06	46.59' RT	--	--	--	1
***TOTAL			6	2	2	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 - 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)			
SB1	HEAD 11	19	--
SB1	HEAD 19	--	22
SB1	HEAD 21	15	--
SB2	HEAD 17	53	--
SB2	HEAD 18	41	--
SB2	HEAD 20		64
SB3	HEAD 22	15	--
SB4	HEAD 1	19	--
SB4	HEAD 9	--	22
SB4	HEAD 23	15	--
SB5	HEAD 7	55	
SB5	HEAD 8	43	--
SB5	HEAD 10		69
SB5	HEAD 24	15	--
SB6	HEAD 14	--	22
SB6	HEAD 16	19	
SB6	HEAD 25	15	--
SB7	HEAD 12	48	
SB7	HEAD 13	19	--
SB7	HEAD 15		61
SB8	HEAD 26	15	
SB9	HEAD 4	--	22
SB9	HEAD 6	19	
SB9	HEAD 27	15	--
SB10	HEAD 2	55	
SB10	HEAD 3	44	
SB10	HEAD 5		69
SB10	HEAD 28	15	
***TOTAL		554	351

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND)

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12 - 14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020				
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)				
CB1	SB1	--	--	111
CB1	SB2	--	205	--
CB1	SB3	203	--	--
CB1	SB4	--	--	278
CB1	SB5	--	--	368
CB1	SB6	--	--	311
CB1	SB7	--	221	--
CB1	SB8	218	--	--
CB1	SB9	--	--	159
CB1	SB10	--	--	66
***TOTAL		421	426	1293

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)			
CB1	SB2	205	--
SB2	LUMIN	--	123
SB2	SB5	201	--
SB5	LUMIN	--	123
CB1	SB10	66	--
SB10	LUMIN	--	123
SB10	SB7	203	--
SB7	LUMIN	--	123
***TOTAL		675	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0615 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE		
CB1	SB1	111
SB1	SB2	132
SB2	SB3	36
SB3	SB4	109
SB4	SB5	121
SB5	SB6	113
SB6	SB7	126
SB7	SB8	33
SB8	SB9	107
SB9	SB10	141
SB10	CB1	66
PB1	CB1	40
PB2	SB1	27
PB3	SB3	25
PB4	SB4	37
PB5	SB5	37
PB6	SB6	25
PB7	SB8	23
PB8	SB9	32
PB9	SB10	32
***TOTAL		1373

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE		
CB1	SB5 (HEAD A)	439
CB1	SB10 (HEAD B	137
CB1	SB2 (HEAD C)	271
CB1	SB7 (HEAD D)	287
***TOTAL		1134

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10 - FT EACH	SPV.0060.005 POLES TYPE 13 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.010 MONOTUBE ARMS 35-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.013 LUMINAIRE ARM STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0020										
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)										
SB1	1	1	--	--	--	--	--	--	1	--
SB2	--	--	--	1	--	1	--	1	--	1
SB3	1	--	1	--	--	--	--	--	1	--
SB4	1	1	--	--	--	--	--	--	1	--
SB5	--	--	--	--	1	--	1	1	1	1
SB6	1	1	--	--	--	--	--	--	1	--
SB7	--	--	--	1	--	1	--	1	--	1
SB8	1	--	1	--	--	--	--	--	1	--
SB9	1	1	--	--	--	--	--	--	1	--
SB10	--	--	--	--	1	--	1	1	1	1
***TOTAL	6	4	2	2	2	2	2	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0020													
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)													
1	SB4	1	--	1	--	--	1	1	1	--	--	--	--
2	SB10	1	--	1	--	--	1	1	1	--	--	--	--
3	SB10	1	--	1	--	--	1	1	1	--	--	--	--
4	SB9	--	1	--	1	--	--	--	--	1	2	1	--
5	SB10	--	1	--	1	--	--	--	--	1	2	1	--
6	SB9	1	--	1	--	--	1	1	1	--	--	--	--
7	SB5	1	--	1	--	--	1	1	1	--	--	--	--
8	SB5	1	--	1	--	--	1	1	1	--	--	--	--
9	SB4	--	1	--	1	--	--	--	--	1	2	1	--
10	SB5	--	1	--	1	--	--	--	--	1	2	1	--
11	SB1	1	--	1	--	--	1	1	1	--	--	--	--
12	SB7	1	--	1	--	--	1	1	1	--	--	--	--
13	SB7	1	--	1	--	--	1	1	1	--	--	--	--
14	SB6	--	1	--	1	--	--	--	--	1	2	1	--
15	SB7	--	1	--	1	--	--	--	--	1	2	1	--
16	SB6	1	--	1	--	--	1	1	1	--	--	--	--
17	SB2	1	--	1	--	--	1	1	1	--	--	--	--
18	SB2	1	--	1	--	--	1	1	1	--	--	--	--
19	SB1	--	1	--	1	--	--	--	--	1	2	1	--
20	SB2	--	1	--	1	--	--	--	--	1	2	1	--
21	SB1	--	--	--	--	1	--	--	--	--	--	--	1
22	SB3	--	--	--	--	1	--	--	--	--	--	--	1
23	SB4	--	--	--	--	1	--	--	--	--	--	--	1
24	SB5	--	--	--	--	1	--	--	--	--	--	--	1
25	SB6	--	--	--	--	1	--	--	--	--	--	--	1
26	SB8	--	--	--	--	1	--	--	--	--	--	--	1
27	SB9	--	--	--	--	1	--	--	--	--	--	--	1
28	SB10	--	--	--	--	1	--	--	--	--	--	--	1
***TOTAL		12	8	12	8	8	12	12	12	8	16	8	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)

LOCATION	656.0200.002 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
PROJECT 8680-00-71, CAT 0020	
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.002 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.002 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)		
CB1	–	1
SB4 (HEAD A)	1	–
SB8 (HEAD B)	1	–
SB2 (HEAD C)	1	–
SB6 (HEAD D)	1	–
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.002 REMOVE TRAFFIC SIGNALS LS	SPV.0105.010 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.042 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE)	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.017 TRAFFIC SIGNAL CONTROLLER AND CABINET LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.024 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & STH 35 (TOWER AVENUE	1
TOTAL	1

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & OGDEN AVENUE	
SB1	1
	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
CB1	1
***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 CONDUIT SPECIAL 3-INCH LF
PROJECT 8680-00-71, CAT 0020				
USH 2 (BELKNAP STREET) & OGDEN AVENUE				
CB1	PB1	--	99	--
PB1	PB2	--	--	172
PB2	PB3	--	82	--
PB3	PB4	--	--	104
PB4	PB5	--	78	--
PB5	PB6	--	--	150
PB6	PB7	--	80	--
PB7	PB8	--	--	114
PB8	CB1	--	33	--
		--	--	--
PB1	SB1	16	--	--
PB2	SB2	--	17	--
PB3	SB3	5	--	--
PB4	SB4	--	8	--
PB5	SB5	13	--	--
PB6	SB6	--	14	--
PB7	SB7	8	--	--
PB8	SB8	--	8	--
***TOTAL		42	419	540

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.001 CONCRETE BASES TYPE 10 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
PROJECT 8680-00-71, CAT 0020						
USH 2 (BELKNAP STREET) & OGDEN AVENUE						
SB1	144+76.00	38.53' RT	1	--	--	--
SB2	144+75.60	39.27' LT	--	--	1	--
SB3	144+94.47	52.41' LT	1	--	--	--
SB4	145+51.84	51.45' LT	--	1	--	--
SB5	145+68.40	38.11' LT	1	--	--	--
SB6	145+68.09	39.34' RT	--	--	1	--
SB7	145+51.07	51.65' RT	1	--	--	--
SB8	144+93.88	52.42' RT	--	1	--	--
CB1	144+84.37	67.14' RT	--	--	--	1
		***TOTAL	4	2	2	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & OGDEN AVENUE			
PB1	144+61.25	44.15' RT	1
PB2	144+58.52	41.62' LT	1
PB3	144+96.21	57.62' LT	1
PB4	145+48.16	58.01' LT	1
PB5	145+81.07	38.02' LT	1
PB6	145+81.64	37.20' RT	1
PB7	145+48.64	59.36' RT	1
PB8	144+91.88	59.78' RT	1
PB9			1
		***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 - 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & OGDEN AVENUE			
SB1	HEAD 1	19	
SB1	HEAD 9	--	22
SB1	HEAD 17	15	--
SB2	HEAD 7	55	
SB2	HEAD 8	43	--
SB2	HEAD 10	--	69
SB2	HEAD 18	15	--
SB3	HEAD 12	19	--
SB3	HEAD 14	19	--
SB3	HEAD 19	15	--
SB4	HEAD 13	47	--
SB4	HEAD 20	15	--
SB5	HEAD 4	--	22
SB5	HEAD 6	19	--
SB5	HEAD 21	15	--
SB6	HEAD 2	56	--
SB6	HEAD 3	43	
SB6	HEAD 5	--	69
SB6	HEAD 22	15	--
SB7	HEAD 11	19	
SB7	HEAD 15	19	--
SB7	HEAD 23	15	--
SB8	HEAD 16	46	--
SB8	HEAD 24	15	--
	***TOTAL	524	182

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & OGDEN AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
***TOTAL	11

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND)

FROM	TO	655.0260 CABLE TRAFFIC SIGNAL 12 - 14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & OGDEN AVENUE			
CB1	SB1	--	76
CB1	SB2	--	179
CB1	SB3	224	--
CB1	SB4	295	--
CB1	SB5	--	271
CB1	SB6	--	181
CB1	SB7	119	--
CB1	SB8	46	--
	***TOTAL	684	707

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & OGDEN AVENUE			
CB1	SB1	76	--
SB1	LUMIN	--	123
SB1	SB3	204	--
SB3	LUMIN	--	123
CB1	SB7	119	--
SB7	LUMIN	--	123
SB7	SB5	192	--
SB5	LUMIN	--	123
	***TOTAL	591	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & OGDEN AVENUE		
CB1	SB1	76
SB1	SB2	159
SB2	SB3	103
SB3	SB4	105
SB4	SB5	100
SB5	SB6	142
SB6	SB7	102
SB7	SB8	113
SB8	CB1	46
PB1	SB1	36
PB2	SB2	37
PB3	SB3	25
PB4	SB4	28
PB5	SB5	33
PB6	SB6	34
PB7	SB7	28
PB8	SB8	28
***TOTAL		1195

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
USH 2 (BELKNAP STREET) & OGDEN AVENUE

LOCATION	656.0200.003 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
PROJECT 8680-00-71, CAT 0020	
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & OGDEN AVENUE		
CB1	SB2 (HEAD A)	250
CB1	SB6 (HEAD B)	252
CB1	SB8 (HEAD C)	97
CB1	SB4 (HEAD D)	351
***TOTAL		950

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	SPV.0060.004 POLES TYPE 10 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.007 MONOTUBE ARMS 20-FT EACH	SPV.0060.008 MONOTUBE ARMS 25-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.013 LUMINAIRE ARMS STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0020										
USH 2 (BELKNAP STREET) & OGDEN AVENUE										
SB1	1	1	--	--	--	--	--	--	1	--
SB2	--	--	--	1	--	--	1	1	1	1
SB3	1	1	--	--	--	--	--	--	1	--
SB4	--	--	1	--	--	1	--	1	1	1
SB5	1	1	--	--	--	--	--	--	1	--
SB6	--	--	--	1	--	--	1	1	1	1
SB7	1	1	--	--	--	--	--	--	1	--
SB8	--	--	1	--	1	--	--	1	1	1
***TOTAL	4	4	2	2	1	1	2	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

HEAD NUMBER	BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0020													
USH 2 (BELKNAP STREET) & OGDEN AVENUE													
1	SB1	1	--	1	--	--	1	1	1	--	--	--	--
2	SB6	1	--	1	--	--	1	1	1	--	--	--	--
3	SB6	1	--	1	--	--	1	1	1	--	--	--	--
4	SB5	--	1	--	1	--	--	--	--	1	2	1	--
5	SB6	--	1	--	1	--	--	--	--	1	2	1	--
6	SB5	1	--	1	--	--	1	1	1	--	--	--	--
7	SB2	1	--	1	--	--	1	1	1	--	--	--	--
8	SB2	1	--	1	--	--	1	1	1	--	--	--	--
9	SB1	--	1	--	1	--	--	--	--	1	2	1	--
10	SB2	--	1	--	1	--	--	--	--	1	2	1	--
11	SB7	1	--	1	--	--	1	1	1	--	--	--	--
12	SB3	1	--	1	--	--	1	1	1	--	--	--	--
13	SB4	1	--	1	--	--	1	1	1	--	--	--	--
14	SB3	1	--	1	--	--	1	1	1	--	--	--	--
15	SB7	1	--	1	--	--	1	1	1	--	--	--	--
16	SB8	1	--	1	--	--	1	1	1	--	--	--	--
17	SB1	--	--	--	--	1	--	--	--	--	--	--	--
18	SB2	--	--	--	--	1	--	--	--	--	--	--	--
19	SB3	--	--	--	--	1	--	--	--	--	--	--	--
20	SB4	--	--	--	--	1	--	--	--	--	--	--	--
21	SB5	--	--	--	--	1	--	--	--	--	--	--	1
22	SB6	--	--	--	--	1	--	--	--	--	--	--	1
23	SB7	--	--	--	--	1	--	--	--	--	--	--	1
24	SB8	--	--	--	--	1	--	--	--	--	--	--	1
***TOTAL		12	4	12	4	8	12	12	12	4	8	4	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.003 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & OGDEN AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.003 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & OGDEN AVENUE	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & OGDEN AVENUE		
CB1	--	1
SB2 (HEAD A)	1	--
SB6 (HEAD B)	1	--
SB8 (HEAD C)	1	--
SB4 (HEAD D)	1	--
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.003 REMOVE TRAFFIC SIGNALS LS	SPV.0105.011 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & OGDEN AVENUE	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.043 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & OGDEN AVENUE	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.018 TRAFFIC SIGNAL CONTROLLER AND CABINET LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & OGDEN AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.025 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & OGDEN AVENUE	1
TOTAL	1

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
CB1	1
***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & HAMMOND AVENUE			
CB1	PB1	--	21
PB1	PB2	--	74
PB2	PB3	--	130
PB3	PB4		76
PB4	PB5		150
PB5	PB6		80
PB6	PB7	--	126
PB7	PB8	--	88
PB8	PB9	--	150
PB9	PB10	--	54
PB10	PB11	--	72
PB11	CB1	--	39
PB3	SB1	--	11
PB4	SB2	10	
PB5	SB3	--	9
PB6	SB4	8	
PB7	SB5	--	10
PB8	SB6	12	--
PB9	SB7	--	12
PB10	SB8	9	--
***TOTAL		39	1102

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & HAMMOND AVENUE			
PB1	156+81.24	61.06' RT	1
PB2	156+15.57	61.76' RT	1
PB3	155+86.16	37.01' RT	1
PB4	155+85.62	37.49' LT	1
PB5	156+13.00	62.13' LT	1
PB6	156+75.58	62.60' LT	1
PB7	157+12.07	37.47' LT	1
PB8	157+12.63	37.50' RT	1
PB9	156+91.61	54.40' RT	1
PB10			1
PB11			1
***TOTAL			11

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
***TOTAL	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHER

3

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & HAMMOND AVENUE			
SB1	HEAD 17	51	--
SB1	HEAD 18	40	
SB1	HEAD 20		66
SB1	HEAD 28	15	--
SB2	HEAD 1	19	--
SB2	HEAD 9	--	22
SB2	HEAD 21	15	--
SB3	HEAD 7	55	--
SB3	HEAD 8	43	--
SB3	HEAD 10		69
SB3	HEAD 22	15	
SB4	HEAD 14	--	22
SB4	HEAD 16	19	--
SB4	HEAD 23	15	--
SB5	HEAD 12	43	--
SB5	HEAD 13	19	--
SB5	HEAD 15	--	60
SB5	HEAD 24	15	
SB6	HEAD 4		22
SB6	HEAD 6	19	--
SB6	HEAD 25	15	--
SB7	HEAD 2	56	--
SB7	HEAD 3	44	--
SB7	HEAD 5	--	69
SB7	HEAD 26	15	--
SB8	HEAD 11	19	
SB8	HEAD 19		22
SB8	HEAD 27	15	--
***TOTAL		547	352

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND

FROM	TO	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & HAMMOND AVENUE		
CB1	SB1	179
CB1	SB2	232
CB1	SB3	322
CB1	SB4	377
CB1	SB5	296
CB1	SB6	238
CB1	SB7	147
CB1	SB8	101
***TOTAL		1892

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.001 CONCRETE BASES TYPE 10 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
PROJECT 8680-00-71, CAT 0020						
USH 2 (BELKNAP STREET) & HAMMOND AVENUE						
SB1	156+12.57	51.78' RT	--	--	1	--
SB2	155+96.17	38.09' RT	1	--	--	--
SB3	155+94.11	38.00' LT	--	--	1	--
SB4	156+11.59	51.63' LT	1	--	--	--
SB5	156+77.62	52.84' LT	--	1	--	--
SB6	156+99.62	37.56' LT	1	--	--	--
SB7	157+00.61	38.54' RT	--	--	1	--
SB8	156+89.68	50.13' RT	1	--	--	--
CB1	156+93.17	103.43' RT	--	--	--	1
***TOTAL			4	1	3	1

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & HAMMOND AVENUE			
CB1	SB1	179	--
SB1	LUMIN	--	123
SB1	SB3	189	--
SB3	LUMIN	--	123
CB1	SB7	147	--
SB7	LUMIN	--	123
SB7	SB5	197	--
SB5	LUMIN	--	123
***TOTAL		712	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & HAMMOND AVENUE		
CB1	SB1	179
SB1	SB2	99
SB2	SB3	104
SB3	SB4	97
SB4	SB5	121
SB5	SB6	106
SB6	SB7	139
SB7	SB8	88
SB8	CB1	101
PB1	CB1	30
PB2	CB1	80
PB3	SB1	31
PB4	SB2	30
PB5	SB3	29
PB6	SB4	28
PB7	SB5	30
PB8	SB6	32
PB9	SB7	32
PB10	SB8	29
PB11	CB1	36
***TOTAL		1386

***ADDITIONAL QUANTITIES SHOWN ELSEWHER

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & HAMMOND AVENUE		
CB1	SB3 (HEAD A)	393
CB1	SB7 (HEAD B)	218
CB1	SB1 (HEAD C)	250
CB1	SB5 (HEAD D)	351
***TOTAL		1212

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	SPV.0060.004 POLES TYPE 10 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.009 MONOTUBE ARMS 30-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.013 LUMINAIRE ARMS STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0020									
USH 2 (BELKNAP STREET) & HAMMOND AVENUE									
SB1	--	--	--	1	--	1	1	1	1
SB2	1	1	--	--	--	--	--	1	--
SB3	--	--	--	1	--	1	1	1	1
SB4	1	1	--	--	--	--	--	1	--
SB5	--	--	1	--	1	--	1	1	1
SB6	1	1	--	--	--	--	--	1	--
SB7	--	--	--	1	--	1	1	1	1
SB8	1	1	--	--	--	--	--	1	--
			--						
***TOTAL	4	4	1	3	1	3	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0020													
USH 2 (BELKNAP STREET) & HAMMOND AVENUE													
1	SB2	1	--	1	--	--	1	1	1	--	--	--	--
2	SB7	1	--	1	--	--	1	1	1	--	--	--	--
3	SB7	1	--	1	--	--	1	1	1	--	--	--	--
4	SB6	--	1	--	1	--	--	--	--	1	2	1	--
5	SB7	--	1	--	1	--	--	--	--	1	2	1	--
6	SB6	1	--	1	--	--	1	1	1	--	--	--	--
7	SB3	1	--	1	--	--	1	1	1	--	--	--	--
8	SB3	1	--	1	--	--	1	1	1	--	--	--	--
9	SB2	--	1	--	1	--	--	--	--	1	2	1	--
10	SB3	--	1	--	1	--	--	--	--	1	2	1	--
11	SB8	1	--	1	--	--	1	1	1	--	--	--	--
12	SB5	1	--	1	--	--	1	1	1	--	--	--	--
13	SB5	1	--	1	--	--	1	1	1	--	--	--	--
14	SB4	--	1	--	1	--	--	--	--	1	2	1	--
15	SB5	--	1	--	1	--	--	--	--	1	2	1	--
16	SB4	1	--	1	--	--	1	1	1	--	--	--	--
17	SB1	1	--	1	--	--	1	1	1	--	--	--	--
18	SB1	1	--	1	--	--	1	1	1	--	--	--	--
19	SB8	--	1	--	1	--	--	--	--	1	2	1	--
20	SB1	--	1	--	1	--	--	--	--	1	2	1	--
21	SB2	--	--	--	--	1	--	--	--	--	--	--	1
22	SB3	--	--	--	--	1	--	--	--	--	--	--	1
23	SB4	--	--	--	--	1	--	--	--	--	--	--	1
24	SB5	--	--	--	--	1	--	--	--	--	--	--	1
25	SB6	--	--	--	--	1	--	--	--	--	--	--	1
26	SB7	--	--	--	--	1	--	--	--	--	--	--	1
27	SB8	--	--	--	--	1	--	--	--	--	--	--	1
28	SB1	--	--	--	--	1	--	--	--	--	--	--	1
	***TOTAL	12	8	12	8	8	12	12	12	8	16	8	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL USH 2 (BELKNAP STREET) & HAMMOND AVENUE

LOCATION	656.0200.004 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
PROJECT 8680-00-71, CAT 0020	
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.004 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.004 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & HAMMOND AVENUE		
CB1	--	1
SB3 (HEAD A)	1	–
SB7 (HEAD B)	1	–
SB1 (HEAD C)	1	–
SB5 (HEAD D)	1	–
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.004 REMOVE TRAFFIC SIGNALS LS	SPV.0105.012 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.044 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.019 TRAFFIC SIGNAL CONTROLLE AND CABINET LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.026 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & HAMMOND AVENUE	1
TOTAL	1

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & GRAND AVENUE	
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
CB1	1
***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PROJECT 8680 00 71, CAT 0020			
USH 2 (BELKNAP STREET) & GRAND AVENUE			
CB1	PB1	--	69
PB1	PB2	--	150
PB2	PB3		64
PB3	PB4		124
PB4	PB5	--	68
PB5	PB6	--	150
PB6	PB7	--	66
PB7	PB8		100
PB8	PB9		70
PB9	CB1		81
PB2	SB1	--	8
PB3	SB2	4	--
PB4	SB3	--	6
PB5	SB4	8	
PB6	SB5	--	8
PB7	SB6	5	--
PB8	SB7	--	4
PB9	SB8	6	--
***TOTAL		23	968

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.007 CONCRETE BASES TYPE 10 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE S SPECIAL EACH
PROJECT 8680-00-71, CAT 0020						
USH 2 (BELKNAP STREET) & GRAND AVENUE						
SB1	167+19.91	38.79' LT	--	--	1	--
SB2	167+35.38	52.03' LT	"	--	--	--
SB3	168+04.09	51.59' LT	--	1	--	--
SB4	168+21.35	39.06' LT	"	--	--	--
SB5	168+22.37	36.38' RT	--	--	1	--
SB6	168+04.81	50.73' RT	"	--	--	--
SB7	167+43.87	51.54' RT	--	--	--	--
SB8	167+22.62	38.45' RT	"	1	--	--
CB1	167+04.80	56.50' RT	--	--	--	"
***TOTAL			4	2	2	"

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & GRAND AVENUE			
PB1	167+12.77	37.53' RT	1
PB2	167+12.21	37.47' LT	1
PB3	167+38.92	55.47' LT	1
PB4	168+00.63	55.72' LT	1
PB5	168+28.80	37.50' LT	1
PB6	168+29.36	37.50' RT	1
PB7	168+01.72	55.01' RT	1
PB8	167+51.64	55.39' RT	1
PB9	167+19.45	42.37' RT	1
***TOTAL			9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & GRAND AVENUE			
SB1	HEAD 7	66	--
SB1	HEAD 8	44	--
SB1	HEAD 10	--	70
SB1	HEAD 22	15	
SB2	HEAD 14	"	22
SB2	HEAD 16	19	
SB2	HEAD 23	15	
SB3	HEAD 12	44	--
SB3	HEAD 13	19	--
SB3	HEAD 15	--	60
SB3	HEAD 24	15	--
SB4	HEAD 4	--	22
SB4	HEAD 6	19	"
SB4	HEAD 25	15	--
SB5	HEAD 2	57	"
SB5	HEAD 3	45	
SB5	HEAD 5	"	70
SB5	HEAD 26	15	--
SB6	HEAD 11	19	--
SB6	HEAD 19	--	22
SB6	HEAD 27	15	--
SB7	HEAD 17	41	--
SB7	HEAD 18	19	--
SB7	HEAD 20	--	58
SB7	HEAD 28	15	
SB8	HEAD 1	19	
SB8	HEAD 9	--	22
SB8	HEAD 21	15	--
***TOTAL		521	344

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & GRAND AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
***TOTAL	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND)

FROM	TO	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & GRAND AVENUE		
CB1	SB1	149
CB1	SB2	193
CB1	SB3	273
CB1	SB4	325
CB1	SB5	228
CB1	SB6	176
CB1	SB7	109
CB1	SB8	60
***TOTAL		1513

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & GRAND AVENUE			
CB1	SB1	149	--
SB1	LUMIN	--	123
SB1	SB3	164	--
SB3	LUMIN	--	123
CB1	SB7	109	--
SB7	LUMIN	--	123
SB7	SB5	151	--
SB5	LUMIN	--	123
***TOTAL		573	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & GRAND AVENUE		
CB1	SB1	149
SB1	SB2	84
SB2	SB3	112
SB3	SB4	88
SB4	SB5	131
SB5	SB6	86
SB6	SB7	99
SB7	SB8	85
SB8	CB1	60
PB1	CB1	46
PB2	SB1	28
PB3	SB2	24
PB4	SB3	26
PB5	SB4	29
PB6	SB5	29
PB7	SB6	25
PB8	SB7	24
PB9	SB8	26
***TOTAL		1149

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & GRAND AVENUE		
CB1	SB1 (HEAD A)	220
CB1	SB5 (HEAD B)	299
CB1	SB7 (HEAD C)	170
CB1	SB3 (HEAD D)	334
***TOTAL		1023

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	SPV.0060.004 POLES TYPE 10 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.009 MONOTUBE ARMS 30-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.013 LUMINAIRE ARMS STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0020									
USH 2 (BELKNAP STREET) & GRAND AVENUE									
SB1	--	--	--	1	--	1	1	1	1
SB2	1	1	--	--	--	--	--	1	--
SB3	--	--	1	--	1	--	1	1	1
SB4	1	1	--	--	--	--	--	1	--
SB5	--	--	--	1	--	1	1	1	1
SB6	1	1	--	--	--	--	--	1	--
SB7	--	--	1	--	1	--	1	1	1
SB8	1	1	--	--	--	--	--	1	--
***TOTAL	4	4	2	2	2	2	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0020													
USH 2 (BELKNAP STREET) & GRAND AVENUE													
1	SB8	1	--	1	--	--	1	1	1	--	--	--	--
2	SB5	1	--	1	--	--	1	1	1	--	--	--	--
3	SB5	1	--	1	--	--	1	1	1	--	--	--	--
4	SB4	--	1	--	1	--	--	--	--	1	2	1	--
5	SB5	--	1	--	1	--	--	--	--	1	2	1	--
6	SB4	1	--	1	--	--	1	1	1	--	--	--	--
7	SB1	1	--	1	--	--	1	1	1	--	--	--	--
8	SB1	1	--	1	--	--	1	1	1	--	--	--	--
9	SB8	--	1	--	1	--	--	--	--	1	2	1	--
10	SB1	--	1	--	1	--	--	--	--	1	2	1	--
11	SB6	1	--	1	--	--	1	1	1	--	--	--	--
12	SB3	1	--	1	--	--	1	1	1	--	--	--	--
13	SB3	1	--	1	--	--	1	1	1	--	--	--	--
14	SB2	--	1	--	1	--	--	--	--	1	2	1	--
15	SB3	--	1	--	1	--	--	--	--	1	2	1	--
16	SB2	1	1	1	1	1	1	1	1	1	1	1	--
17	SB7	1	1	1	1	1	1	1	1	1	1	1	--
18	SB7	1	1	1	1	1	1	1	1	1	1	1	--
19	SB6	--	1	--	1	--	--	--	--	1	2	1	--
20	SB7	--	1	--	1	--	--	--	--	1	2	1	--
21	SB8	--	--	--	--	1	--	--	--	--	--	--	1
22	SB1	--	--	--	--	1	--	--	--	--	--	--	1
23	SB2	--	--	--	--	1	--	--	--	--	--	--	1
24	SB3	--	--	--	--	1	--	--	--	--	--	--	1
25	SB4	--	--	--	--	1	--	--	--	--	--	--	1
26	SB5	--	--	--	--	1	--	--	--	--	--	--	1
27	SB6	--	--	--	--	1	--	--	--	--	--	--	1
28	SB7	--	--	--	--	1	--	--	--	--	--	--	1
	***TOTAL	12	11	12	11	11	12	12	12	11	19	11	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL USH 2 (BELKNAP STREET) & GRAND AVENUE

LOCATION	656.0200.005 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
PROJECT 8680-00-71, CAT 0020	
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.005 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & GRAND AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.005 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & GRAND AVENUE	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & GRAND AVENUE		
CB1	--	1
SB1 (HEAD A)	1	--
SB5 (HEAD B)	1	--
SB7 (HEAD C)	1	--
SB3 (HEAD D)	1	--
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.005 REMOVE TRAFFIC SIGNALS LS	SPV.0105.013 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & GRAND AVENUE	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.045 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & GRAND AVENUE	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.020 TRAFFIC SIGNAL CONTROLLE AND CABINET LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & GRAND AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.027 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & GRAND AVENUE	1
TOTAL	1

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & CATLIN AVENUE	
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
CB1	1
***TOTAL	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & CATLIN AVENUE			
CB1	PB1	--	141
PB1	PB2		42
PB2	PB3	--	96
PB3	PB4		60
PB4	PB5	--	154
PB5	PB6		64
PB6	PB7	--	94
PB7	PB8		60
PB8	PB9	--	154
PB9	CB1		132
PB1	SB1		4
PB2	SB2	5	--
PB3	SB3		5
PB4	SB4	9	--
PB5	SB5	--	6
PB6	SB6	11	
PB7	SB7		9
PB8	SB8	4	--
***TOTAL		29	1021

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.001 CONCRETE BASES TYPE 10 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
PROJECT 8680-00-71, CAT 0020						
USH 2 (BELKNAP STREET) & CATLIN AVENUE						
SB1	182+93.33	39.61' RT	--	--	1	--
SB2	182+79.54	51.99' RT	1	--	--	--
SB3	182+26.92	52.27' RT	--	1	--	--
SB4	182+14.93	40.43' RT	1	--	--	--
SB5	182+12.34	39.47' LT	--	--	1	--
SB6	182+26.80	49.75' LT	1	--	--	--
SB7	182+80.60	52.02' LT	--	1	--	--
SB8	182+95.02	39.73' LT	1	--	--	--
CB1	183+41.45	47.00' RT	--	--	--	1
***TOTAL			4	2	2	1

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & CATLIN AVENUE			
PB1	182+84.45	43.67' RT	1
PB2	182+77.88	56.46' RT	1
PB3	182+29.71	56.84' RT	1
PB4	182+06.45	38.50' RT	1
PB5	182+06.46	38.50' LT	1
PB6	182+30.42	59.92' LT	1
PB7	182+77.41	60.27' LT	1
PB8	182+98.37	38.51' LT	1
PB9	182+98.94	38.03' RT	1
***TOTAL			9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 - 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & CATLIN AVENUE			
SB1	HEAD 2	57	
SB1	HEAD 3	45	--
SB1	HEAD 5		70
SB1	HEAD 28	15	--
SB2	HEAD 11	19	
SB2	HEAD 19	--	22
SB2	HEAD 21	15	
SB3	HEAD 17	43	--
SB3	HEAD 18	19	
SB3	HEAD 20	--	58
SB3	HEAD 22	15	--
SB4	HEAD 1	19	--
SB4	HEAD 9	--	22
SB4	HEAD 23	15	
SB5	HEAD 7	56	--
SB5	HEAD 8	45	
SB5	HEAD 10	--	70
SB5	HEAD 24	15	
SB6	HEAD 14	--	22
SB6	HEAD 16	19	
SB6	HEAD 25	15	--
SB7	HEAD 12	43	
SB7	HEAD 13	19	--
SB7	HEAD 15	--	58
SB7	HEAD 26	15	
SB8	HEAD 4	--	22
SB8	HEAD 6	19	--
SB8	HEAD 27	15	--
***TOTAL		523	344

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & CATLIN AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
***TOTAL	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHER

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND

FROM	TO	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & CATLIN AVENUE		
CB1	SB1	78
CB1	SB2	116
CB1	SB3	180
CB1	SB4	230
CB1	SB5	320
CB1	SB6	284
CB1	SB7	219
CB1	SB8	168
***TOTAL		1595

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0020			
USH 2 (BELKNAP STREET) & CATLIN AVENUE			
CB1	SB1	78	--
SB1	LUMIN	--	123
SB1	SB3	134	--
SB3	LUMIN	--	123
CB1	SB7	219	--
SB7	LUMIN	--	123
SB7	SB5	150	--
SB5	LUMIN	--	123
***TOTAL		581	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHEF

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & CATLIN AVENUE		
CB1	SB1	78
SB1	SB2	70
SB2	SB3	98
SB3	SB4	84
SB4	SB5	132
SB5	SB6	89
SB6	SB7	107
SB7	SB8	83
SB8	CB1	168
PB1	SB1	24
PB2	SB2	25
PB3	SB3	25
PB4	SB4	29
PB5	SB5	26
PB6	SB6	31
PB7	SB7	29
PB8	SB8	24
PB9	CB1	67
***TOTAL		1189

***ADDITIONAL QUANTITIES SHOWN ELSEWHER

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & CATLIN AVENUE		
CB1	SB5 (HEAD A)	391
CB1	SB1 (HEAD B)	149
CB1	SB3 (HEAD C)	241
CB1	SB7 (HEAD D)	280
***TOTAL		1061

***ADDITIONAL QUANTITIES SHOWN ELSEWHER

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	SPV.0060.004 POLES TYPE 10 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.009 MONOTUBE ARMS 30-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.013 LUMINAIRE ARMS STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0020									
USH 2 (BELKNAP STREET) & CATLIN AVENUE									
SB1	--	--	--	1	--	1	1	1	1
SB2	1	1	--	--	--	--	--	1	--
SB3	--	--	1	--	1	--	1	1	1
SB4	1	1	--	--	--	--	--	1	--
SB5	--	--	--	1	--	1	1	1	1
SB6	1	1	--	--	--	--	--	1	--
SB7	--	--	1	--	1	--	1	1	1
SB8	1	1	--	--	--	--	--	1	--
***TOTAL	4	4	2	2	2	2	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0020													
USH 2 (BELKNAP STREET) & CATLIN AVENUE													
1	SB4	1	--	1	--	--	1	1	1	--	--	--	--
2	SB1	1	--	1	--	--	1	1	1	--	--	--	--
3	SB1	1	--	1	--	--	1	1	1	--	--	--	--
4	SB8	--	1	--	1	--	--	--	--	1	2	1	--
5	SB1	--	1	--	1	--	--	--	--	1	2	1	--
6	SB8	1	--	1	--	--	1	1	1	--	--	--	--
7	SB5	1	--	1	--	--	1	1	1	--	--	--	--
8	SB5	1	--	1	--	--	1	1	1	--	--	--	--
9	SB4	--	1	--	1	--	--	--	--	1	2	1	--
10	SB5	--	1	--	1	--	--	--	--	1	2	1	--
11	SB2	1	--	1	--	--	1	1	1	--	--	--	--
12	SB7	1	--	1	--	--	1	1	1	--	--	--	--
13	SB7	1	--	1	--	--	1	1	1	--	--	--	--
14	SB6	--	1	--	1	--	--	--	--	1	2	1	--
15	SB7	--	1	--	1	--	--	--	--	1	2	1	--
16	SB6	1	--	1	--	--	1	1	1	--	--	--	--
17	SB3	1	--	1	--	--	1	1	1	--	--	--	--
18	SB3	1	--	1	--	--	1	1	1	--	--	--	--
19	SB2	--	1	--	1	--	--	--	--	1	2	1	--
20	SB3	--	1	--	1	--	--	--	--	1	2	1	--
21	SB2	--	--	--	--	1	--	--	--	--	--	--	1
22	SB3	--	--	--	--	1	--	--	--	--	--	--	1
23	SB4	--	--	--	--	1	--	--	--	--	--	--	1
24	SB5	--	--	--	--	1	--	--	--	--	--	--	1
25	SB6	--	--	--	--	1	--	--	--	--	--	--	1
26	SB7	--	--	--	--	1	--	--	--	--	--	--	1
27	SB8	--	--	--	--	1	--	--	--	--	--	--	1
28	SB1					1							1
	***TOTAL	12	8	12	8	8	12	12	12	8	16	8	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL USH 2 (BELKNAP STREET) & CATLIN AVENUE

LOCATION	656.0200.006 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
PROJECT 8680-00-71, CAT 0020	
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.006 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & CATLIN AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.006 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & CATLIN AVENU	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & CATLIN AVENUE		
CB1	--	1
SB5 (HEAD A)	1	--
SB1 (HEAD B)	1	--
SB3 (HEAD C)	1	--
SB7 (HEAD D)	1	--
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.006 REMOVE TRAFFIC SIGNALS LS	SPV.0105.014 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0020		
USH 2 (BELKNAP STREET) & CATLIN AVENUE	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.046 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & CATLIN AVENUE	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.021 TRAFFIC SIGNAL CONTROLLE AND CABINET LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & CATLIN AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.028 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & CATLIN AVENUE	1
TOTAL	1

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0010	
USH 2 (BELKNAP STREET) & HILL AVENUE	
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
CB1	1
***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PROJECT 8680-00-71, CAT 0010			
USH 2 (BELKNAP STREET) & HILL AVENUE			
CB1	PB1	--	81
PB1	PB2	--	138
PB2	PB3	--	88
PB3	PB4	--	110
PB4	PB5	--	76
PB5	PB6	--	118
PB6	PB7	--	82
PB7	PB8	--	80
PB8	PB9	--	44
PB9	CB1	--	90
PB2	SB1	--	10
PB2	SB2	19	--
PB3	SB3	6	--
PB4	SB4	--	5
PB5	SB5	10	--
PB6	SB6	--	7
PB6	SB7	6	--
PB7	SB8	6	--
PB8	SB9	--	6
PB9	SB10	4	--
***TOTAL		51	935

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.001 CONCRETE BASES TYPE 10 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.002 CONCRETE BASES TYPE 10 SPECIAL CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	SPV.0060.003 CONCRETE BASES TYPE 13 CONTRACTOR SUPPLIED ANCHOR BOLTS & ROD TEMPLATE EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
PROJECT 8680-00-71, CAT 0010							
USH 2 (BELKNAP STREET) & HILL AVENUE							
SB1	208+75.04	38.75' RT	--	--	1	--	--
SB2	208+69.07	42.46' RT	1	--	--	--	--
SB3	208+53.64	56.87' RT	1	--	--	--	--
SB4	207+95.93	54.25' RT	--	1	--	--	--
SB5	207+78.48	41.66' RT	1	--	--	--	--
SB6	207+80.08	39.05' LT	--	--	--	1	--
SB7	207+93.44	39.35' LT	1	--	--	--	--
SB8	208+23.21	51.62' LT	1	--	--	--	--
SB9	208+72.43	49.62' LT	--	1	--	--	--
SB10	208+84.16	35.82' LT	1	--	--	--	--
CB1	209+16.99	40.60' LT	--	--	--	--	1
		***TOTAL	6	2	1	1	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0010			
USH 2 (BELKNAP STREET) & HILL AVENUE			
PB1	208+90.06	33.10' LT	1
PB2	208+84.16	35.69' RT	1
PB3	208+49.98	61.26' RT	1
PB4	207+98.78	58.04' RT	1
PB5	207+68.28	38.50' RT	1
PB6	207+87.48	38.55' LT	1
PB7	208+26.23	56.54' LT	1
PB8	208+68.83	54.41' LT	1
PB9	208+86.17	39.17' LT	1
		***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5 - 14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF
PROJECT 8680-00-71, CAT 0010			
USH 2 (BELKNAP STREET) & HILL AVENUE			
SB1	HEAD 2	55	--
SB1	HEAD 3	43	--
SB1	HEAD 5	--	70
SB2	HEAD 20	15	--
SB3	HEAD 11	19	--
SB3	HEAD 18	19	--
SB3	HEAD 21	15	--
SB4	HEAD 17	47	--
SB4	HEAD 22	15	--
SB5	HEAD 1	19	--
SB5	HEAD 9	--	22
SB5	HEAD 23	15	--
SB6	HEAD 7	55	--
SB6	HEAD 8	44	--
SB6	HEAD 10	--	71
SB7	HEAD 24	15	--
SB8	HEAD 14	--	22
SB8	HEAD 16	19	--
SB8	HEAD 25	15	--
SB9	HEAD 12	45	--
SB9	HEAD 13	19	--
SB9	HEAD 15	--	52
SB9	HEAD 26	15	--
SB10	HEAD 4		22
SB10	HEAD 6	19	--
SB10	HEAD 19	15	--
	***TOTAL	523	259

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOX REMOVALS

EXISTING PULL BOX NUMBER	653.0905 REMOVING PULL BOXES EACH
PROJECT 8680-00-71, CAT 0010	
USH 2 (BELKNAP STREET) & HILL AVENUE	
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
***TOTAL	9

***ADDITIONAL QUANTITIES SHOWN ELSEWHER

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND)

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12 - 14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF
PROJECT 8680-00-71, CAT 0010				
USH 2 (BELKNAP STREET) & HILL AVENUE				
CB1	SB1	--	149	--
CB1	SB2	158	--	--
CB1	SB3	--	--	210
CB1	SB4	--	280	--
CB1	SB5	--	--	339
CB1	SB6	--	215	--
CB1	SB7	214	--	--
CB1	SB8	--	--	157
CB1	SB9	--	--	101
CB1	SB10	--	--	61
	***TOTAL	372	644	868

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF
PROJECT 8680-00-71, CAT 0010			
USH 2 (BELKNAP STREET) & HILL AVENUE			
CB1	SB1	149	--
SB1	LUMIN	--	123
SB1	SB3	105	--
SB3	LUMIN	--	123
CB1	SB7	214	--
SB7	LUMIN	--	123
SB7	SB5	115	--
SB5	LUMIN	--	123
	***TOTAL	583	492

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRIC WIRE TRAFFIC SIGNALS, NO. 10

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PROJECT 8680-00-71, CAT 0010		
USH 2 (BELKNAP STREET) & HILL AVENUE		
CB1	SB1	149
SB1	SB2	53
SB2	SB3	114
SB3	SB4	106
SB4	SB5	93
SB5	SB6	116
SB6	SB7	37
SB7	SB8	93
SB8	SB9	92
SB9	SB10	72
SB10	CB1	61
PB1	CB1	50
PB2	SB1	30
PB3	SB3	26
PB4	SB4	25
PB5	SB5	30
PB6	SB6	27
PB7	SB8	26
PB8	SB9	26
PB9	SB10	24
	***TOTAL	1250

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL

PROJECT 8680-00-71, CAT 0010
USH 2 (BELKNAP STREET) & HILL AVENUE

LOCATION	656.0200.007 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
PROJECT 8680-00-71, CAT 0010		
USH 2 (BELKNAP STREET) & HILL AVENUE		
CB1	SB6 (HEAD A)	291
CB1	SB1 (HEAD B)	220
CB1	SB4 (HEAD C)	331
CB1	SB9 (HEAD D)	157
	***TOTAL	999

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10 - FT EACH	SPV.0060.004 POLES TYPE 10 EACH	SPV.0060.005 POLES TYPE 13 EACH	SPV.0060.006 POLES TYPE 13 SPECIAL EACH	SPV.0060.007 MONOTUBE ARMS 20-FT EACH	SPV.0060.008 MONOTUBE ARMS 25-FT EACH	SPV.0060.011 MONOTUBE ARMS 40-FT EACH	SPV.0060.012 MONOTUBE ARMS 45-FT EACH	SPV.0060.013 LUMINAIRE ARMS STEEL 8-FOOT EACH	SPV.0060.014 ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON STATION EACH	659.1120 LUMINAIRES UTILITY LED B EACH
PROJECT 8680-00-71, CAT 0010													
USH 2 (BELKNAP STREET) & HILL AVENUE													
SB1	--	--	--	--	--	1	--	--	1	--	1	--	1
SB2	1	--	1	--	--	--	--	--	--	--	--	1	--
SB3	1	1	--	--	--	--	--	--	--	--	--	1	--
SB4	--	--	--	1	--	--	1	--	--	--	1	1	1
SB5	1	1	--	--	--	--	--	--	--	--	--	1	--
SB6	--	--	--	--	1	--	--	--	--	1	1	--	1
SB7	1	--	1	--	--	--	--	--	--	--	--	1	--
SB8	1	1	--	--	--	--	--	--	--	--	--	1	--
SB9	--	--	--	1	--	--	--	1	--	--	1	1	1
SB10	1	1	--	--	--	--	--	--	--	--	--	1	--
***TOTAL	6	4	2	2	1	1	1	1	1	1	4	8	4

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN PUSH BUTTON 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
PROJECT 8680-00-71, CAT 0010													
USH 2 (BELKNAP STREET) & HILL AVENUE													
1	SB5	1	--	1	--	--	1	1	1	--	--	--	--
2	SB1	1	--	1	--	--	1	1	1	--	--	--	--
3	SB1	1	--	1	--	--	1	1	1	--	--	--	--
4	SB10	--	1	--	1	--	--	--	--	1	2	1	--
5	SB1	--	1	--	1	--	--	--	--	1	2	1	--
6	SB10	1	--	1	--	--	1	1	1	--	--	--	--
7	SB6	1	--	1	--	--	1	1	1	--	--	--	--
8	SB6	1	--	1	--	--	1	1	1	--	--	--	--
9	SB5	--	1	--	1	--	--	--	--	1	2	1	--
10	SB6	--	1	--	1	--	--	--	--	1	2	1	--
11	SB3	1	--	1	--	--	1	1	1	--	--	--	--
12	SB9	1	--	1	--	--	1	1	1	--	--	--	--
13	SB9	1	--	1	--	--	1	1	1	--	--	--	--
14	SB8	--	1	--	1	--	--	--	--	1	2	1	--
15	SB9	--	1	--	1	--	--	--	--	1	2	1	--
16	SB8	1	--	1	--	--	1	1	1	--	--	--	--
17	SB4	1	--	1	--	--	1	1	1	--	--	--	--
18	SB3	1	--	1	--	--	1	1	1	--	--	--	--
19	SB10	--	--	--	--	1	--	--	--	--	--	--	--
20	SB2	--	--	--	--	1	--	--	--	--	--	--	--
21	SB3	--	--	--	--	1	--	--	--	--	--	--	1
22	SB4	--	--	--	--	1	--	--	--	--	--	--	1
23	SB5	--	--	--	--	1	--	--	--	--	--	--	1
24	SB7	--	--	--	--	1	--	--	--	--	--	--	1
25	SB8	--	--	--	--	1	--	--	--	--	--	--	1
26	SB9	--	--	--	--	1	--	--	--	--	--	--	1
	***TOTAL	12	6	12	6	8	12	12	12	6	12	6	6

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

PROJECT NO: 8680-00-71	HWY: USH 2 - BELKNAP ST	COUNTY: DOUGLAS	SIGNAL QUANTITIES: HILL AVE	SHEET 610	E

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.007 SIGNAL MOUNTING HARDWARE LS
PROJECT 8680-00-71, CAT 0010	
USH 2 (BELKNAP STREET) & HILL AVENUE	1
***TOTAL	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.007 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300 GENERATORS DAY
PROJECT 8680-00-71, CAT 0010		
USH 2 (BELKNAP STREET) & HILL AVENUE	1	2
***TOTAL	1	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY VEHICLE PREEMPTION

LOCATION	SPV.0060.015 EVP DETECTOR TYPE I LS	SPV.0060.016 EVP DISCRIMINATOR TYPE IV LS
PROJECT 8680-00-71, CAT 0010		
USH 2 (BELKNAP STREET) & HILL AVENUE		
CB1	--	1
SB6 (HEAD A)	1	--
SB1 (HEAD B)	1	--
SB4 (HEAD C)	1	--
SB9 (HEAD D)	1	--
***TOTAL	4	1

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.007 REMOVE TRAFFIC SIGNALS LS	SPV.0105.015 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
PROJECT 8680-00-71, CAT 0010		
USH 2 (BELKNAP STREET) & HILL AVENUE	1	1
TOTAL	1	1

TEMPORARY NON-INTRUSIVE DETECTION

LOCATION	SPV.0105.047 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS LS
PROJECT 8680-00-71, CAT 0010	
USH 2 (BELKNAP STREET) & HILL AVENUE	1
TOTAL	1

TRAFFIC SIGNAL CABINET AND CONTROLLER

LOCATION	SPV.0105.022 TRAFFIC SIGNAL CONTROLLER AND CABINET LS
PROJECT 8680-00-71, CAT 0010	
USH 2 (BELKNAP STREET) & HILL AVENUE	1
TOTAL	1

VIDEO VEHICLE DETECTION SYSTEM

LOCATION	SPV.0105.029 VIDEO VEHICLE DETECTION SYSTEM LS
PROJECT 8680-00-71, CAT 0010	
USH 2 (BELKNAP STREET) & HILL AVENUE	1
TOTAL	1

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH LF	652.0605 CONDUIT SPECIAL 2 INCH LF
PROJECT 8680-00-71, CAT 0020			
CV01	CB1 (BANKS)	11	--
CV01	CV02	--	576
CV02	CB1 (TOWER)	12	--
CV02	CV03		235
CV03	CB1 (OGDEN)	10	--
CV03	ICPB01	--	1200
ICPB01	CV04	16	--
ICPB01	CV05	297	--
CV04	CB1 (HAMMOND)	24	--
CV05	CV06	730	--
CV05	CAN PB	33	--
CV06	CB1 (GRAND)	7	--
CV06	CV07	1655	--
CV07	CB1 (CATLIN)	10	--
CV07	ICPB02	1210	--
ICPB02	ICPB03	130	--
ICPB03	ICPB04	1255	--
ICPB04	CV08	75	--
CV08	CB1 (HILL)	10	--
	***TOTAL	5485	2011

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

STRUCTURE NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH	673.0105 COMMUNICATIONS VAULT TYPE 1 EACH
PROJECT 8680-00-71, CAT 0020				
CV01	136+65.8	59.4' RT	--	1
CV02	142+45.167	45.2' RT	--	1
CV03	144+83.2	58.0' RT	--	1
CV04	156+87.8	72.6' RT	--	1
ICPB01	156+85.2	56.1' RT	1	--
CV05	159+74.2	50.0' RT	--	1
CV06	166+87.0	45.7' RT	--	1
CV07	183+50.0	44.2' RT	--	1
ICPB02	195+63.0	41.0' RT	1	--
ICPB04	209+26.6	36.6' RT	1	--
CV08	209+26.6	39.3' LT	--	1
		***TOTAL	3	8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL INTERCONNECT

LOCATION	670.0100.01 FIELD SYSTEM INTEGRATOR LS	670.0200.01 ITS DOCUMENTATION LS	678.0500.01 COMMUNICATION SYSTEM TESTING LS
PROJECT 8680-00-71, CAT 0020			
(BELKNAP ST	1	1	1
TOTAL	1	1	1

ETHERNET SWITCH

LOCATION	SPV.0060.017 ETHERNET SWITCH LF
PROJECT 8680-00-71, CAT 0020	
CB1 (BANKS)	1
CB1 (TOWER)	1
CB1 (OGDEN)	1
CB1 (HAMMOND)	1
CB1 (GRAND)	1
CB1 (CATLIN)	1
CB1 (HILL)	1
CITY HALL	1
	8

3

WALL-MOUNTABLE INTERCONNECT CENTER

LOCATION	SPV.0060.018 WALL-MOUNTABLE INTERCONNECT CENTER EACH
PROJECT 8680-00-71, CAT 0020	
CITY HALL	1
	1

FIBER OPTIC CABLE

FROM	TO	SPV.0090.001 DIELECTRIC 12-COUNT FIBER OPTIC CABLE LF
PROJECT 8680-00-71, CAT 0020		
CV01	CV02	776
CV02	CV03	435
CV03	CV04	1446
CV04	CV05	543
CV05	CITY HALL	620
CV05	CV06	930
CV06	CV07	1855
CV07	CV08	2960
	TOTAL	9565

FIBER OPTIC

LOCATION	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
PROJECT 8680-00-71, CAT 0020		
CV01	1	4
CV02	1	8
CV03	1	8
CV04	1	8
CV05	1	12
CV06	1	8
CV07	1	8
CV08	1	4
UNDISTRIBUTED**	2	24
TOTAL	10	84

**UNDISTRIBUTED QUANTITY TO BE USED FOR MAINLINE FIBER SPLICES

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & TOWER AVENUE

LOCATION	SPV.0105.035 LS
CB1 (TOWER)	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
119	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
35	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

3

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & HAMMOND AVENUE
SPV.0105.037

LOCATION	LS
CB1 (HAMMOND)	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
131	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
47	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & BANKS AVENUE
SPV.0105.034

LOCATION	LS
CB1 (BANKS)	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
118	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
34	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & CATLIN AVENUE
SPV.0105.039

LOCATION	LS
CB1 (CATLIN	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
117	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
33	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

3

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & OGDEN AVENUE
SPV.0105.036

LOCATION	LS
CB1 (OGDEN)	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
117	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
33	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & GRAND AVENUE
SPV.0105.038

LOCATION	LS
CB1 (GRAND)	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
114	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
30	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

FIBER OPTIC COMMUNICATIONS IN CABINET

PROJECT 8680-00-71, CAT 0020
USH 2 (BELKNAP STREET) & HILL AVENUE
SPV.0105.040

LOCATION	LS
CB1 (HILL)	1
TOTAL	1

SUMMARY OF MATERIALS

QUANTITY	UNIT	DESCRIPTION
117	LF	PATCH PANEL WITH FIBER OPTIC CABLE PI
2	LF	ST-ST SINGLE MODE FIBER OPTIC JUMPER
33	LF	TRACER WIRE
2	EACH	CAT-5E CABLE 1-METER

3

CONCRETE BASE REMOVALS

EXISTING BASE NUMBER	204.0195 REMOVING CONCRETE BASES EACH
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BAXTER AVENUE	
SB1	1
SB2	1
***TOTAL	2

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.008 REMOVE TRAFFIC SIGNALS LS
PROJECT 8680-00-71, CAT 0020	
USH 2 (BELKNAP STREET) & BAXTER AVENUE	1
TOTAL	1

PULL BOXES STEEL

PULL BOX NUMBER	STATION	LOCATION	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH
PROJECT 8680-00-71, CAT 0020			
RRFB			
PB1	164+50	0.0	1
PB2	176+88.6	0.0	1
PB3	198+56.3	0.0	1
***TOTAL			3

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NUMBER	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH
PROJECT 8680-00-71, CAT 0020			
RRFB			
SB1	164+42.9	0.0	1
SB2	164+38.1	43.5' RT	1
SB3	176+72.0	43.5' LT	1
SB4	176+74.1	0.0	1
SB5	176+72.0	41.0' RT	1
SB6	198+69.1	38.0' LT	1
SB7	198+72.0	0.0	1
SB8	198+69.2	38.5' RT	1
***TOTAL			8

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CAST BASES AND POLES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5 - FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH
PROJECT 8680-00-71, CAT 0020			
RRFB			
SB1	1	--	1
SB2	1	1	--
SB3	1	--	1
SB4	1	--	1
SB5	1	--	1
SB6	1	1	--
SB7	1	--	1
SB8	1	1	--
***TOTAL	8	3	5

***ADDITIONAL QUANTITIES SHOWN ELSEWHERE

RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM

LOCATION	SPV.0105.030 RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM LS	SPV.0105.031 RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM LS	SPV.0105.032 RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM LS	SPV.0105.033 RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM LS
PROJECT 8680-00-71, CAT 0020				
USH 2 (BELKNAP STREET) & HUGHITT AVENUE	1	--	--	--
USH 2 (BELKNAP STREET) & BAXTER AVENUE	--	1	--	--
USH 2 (BELKNAP STREET) & PILGRIM LUTHERAN CHURCH	--	--	1	--
USH 2 (BELKNAP STREET) & PINE AVENUE	--	--	--	1
TOTAL	1	1	1	1

SUMMARY OF SWLP ITEMS				
NOTE	ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT
1,2	305.0120	BASE AGGREGATE DENSE 1-1/4"	3502	TON
1,3	465.0125	ASPHALTIC SURFACE TEMPORARY	274	TON
	612.0902.S	4-INCH POLYSTYRENE INSULATION	238	SY
	SPV.0060.050	REMOVE WATER VALVE	16	EACH
	SPV.0060.051	REMOVE WATER VALVE BOX	9	EACH
	SPV.0060.052	REMOVE CURB STOP	52	EACH
	SPV.0060.053	REMOVE CURB STOP BOX	37	EACH
	SPV.0060.054	REMOVE HYDRANT	28	EACH
	SPV.0060.055	REMOVE OR ABANDON VALVE VAULT	14	EACH
4	SPV.0060.056	HYDRANT ASSEMBLY	24	EACH
5	SPV.0060.057	TAPPING TEE WITH ELECTROFUSION SADDLE, 1-INCH	59	EACH
5	SPV.0060.058	TAPPING TEE WITH ELECTROFUSION SADDLE, 1.25-INCH	5	EACH
5	SPV.0060.059	TAPPING TEE WITH ELECTROFUSION SADDLE, 1.5-INCH	3	EACH
5	SPV.0060.060	TAPPING TEE WITH ELECTROFUSION SADDLE, 2-INCH	1	EACH
	SPV.0060.061	CURB STOP AND BOX, 1-INCH	75	EACH
	SPV.0060.062	CURB STOP AND BOX, 1.25-INCH	6	EACH
	SPV.0060.063	CURB STOP AND BOX, 1.5-INCH	4	EACH
	SPV.0060.064	CURB STOP AND BOX, 2-INCH	4	EACH
	SPV.0060.065	GATE VALVE AND BOX, 6-INCH	6	EACH
	SPV.0060.066	GATE VALVE AND BOX, 8-INCH	1	EACH
	SPV.0060.067	GATE VALVE AND BOX, 12-INCH	19	EACH
6	SPV.0060.096	CORPORATION STOP 1-INCH	16	EACH
6	SPV.0060.097	CORPORATION STOP 1.25-INCH	1	EACH
6	SPV.0060.098	CORPORATION STOP 1.5-INCH	1	EACH
6	SPV.0060.099	CORPORATION STOP 2-INCH	3	EACH
	SPV.0060.068	CONNECT TO EXISTING WATER MAIN	32	EACH
	SPV.0060.069	CONNECT TO EXISTING WATER SERVICE	97	EACH
	SPV.0060.070	EXCAVATION AREA - WATER MAIN	18	EACH
	SPV.0060.071	EXCAVATION AREA - SERVICE SMALLER THAN 2-INCHES	41	EACH
	SPV.0060.072	EXCAVATION AREA - SERVICE LARGER THAN 2-INCHES	1	EACH
	SPV.0090.050	REMOVE OR ABANDON WATER MAIN	13012	LF
5	SPV.0090.051	WATER MAIN AND FITTINGS, 8-INCH HDPE DR-11	3348	LF
5	SPV.0090.052	WATER MAIN AND FITTINGS, 12-INCH HDPE DR-11	7045	LF
6	SPV.0090.065	WATER MAIN AND FITTINGS, 8-INCH DI CL 52	1244	LF
6	SPV.0090.066	WATER MAIN AND FITTINGS, 12-INCH DI CL 52	1059	LF
5	SPV.0090.053	WATER SERVICE, 1-INCH HDPE	2800	LF
5	SPV.0090.054	WATER SERVICE, 1.25-INCH HDPE	237	LF
5	SPV.0090.055	WATER SERVICE, 1.5-INCH HDPE	132	LF
5	SPV.0090.056	WATER SERVICE, 2-INCH HDPE	27	LF
5	SPV.0090.057	WATER SERVICE, 6-INCH HDPE	265	LF
5	SPV.0090.058	WATER SERVICE, 12-INCH HDPE	41	LF
6	SPV.0090.060	WATER SERVICE, 1-INCH COPPER	725	LF
6	SPV.0090.061	WATER SERVICE, 1.25-INCH COPPER	46	LF
6	SPV.0090.062	WATER SERVICE, 1.5-INCH COPPER	38	LF
6	SPV.0090.063	WATER SERVICE, 2-INCH COPPER	126	LF
6	SPV.0090.064	WATER SERVICE, 6-INCH DI CL 52	29	LF
	SPV.0090.059	STEEL CASING PIPE, 24-INCH JACKED	50	LF
	SPV.0105.050	TEMPORARY WATER SERVICE	1	LS
	SPV.0105.051	CONSTRUCTION STAKING WATER MAIN	1	LS

NOTES	
1	TO BE USED FOR TEMPORARY ROADWAY AREAS AS SHOWN IN THE PLAN FOR SIDE STREET CONNECTIONS. RESTORATION AREAS FOR SERVICE CONNECTIONS, ETC. ARE INCLUDED IN EXCAVATION AREA BID ITEMS.
2	ASSUMES 16' UNIFORM WIDTH TRENCH FOR 14 SIDE STREETS.
3	ASSUMES 16' WIDTH x 33' LENGTH AREA FOR 14 SIDE STREETS AND LENGTH OF ROADWAY ON CATLIN AVENUE AND GRAND AVENUE.
4	INCLUDES BOTH DI AND HDPE PIPE LEADS. USE DI LEADS IN CONTAMINATED AREAS.
5	TO BE USED IN NON-CONTAMINATED AREAS.
6	TO BE USED IN CONTAMINATED AREAS.

NOTES:

EXACT ALIGNMENT OF ALL WATER SERVICES TO BE COORDINATED BY CONTRACTOR WITH EXISTING AND PROPOSED UTILITIES AS WELL AS PROPOSED LANDSCAPING FEATURES.

MINIMUM 18" CLEAR REQUIRED AT ALL STORM AND SANITARY CROSSINGS. PIPE INVERTS SHOWN ARE AT REFERENCE LINE OF ROADWAY AND DO NOT ACCOUNT FOR PIPE THICKNESS.

CONTRACTOR TO VERIFY ALL ANTICIPATED SERVICES CONNECTIONS SHOWN IN PLAN.

REMOVAL OR ABANDONMENT OF ALL PIPES 2-INCH AND SMALLER IS INCIDENTAL.

BENDS SHOWN, PREFERABLE TO DEFLECT HDPE PIPE AT BEND LOCATIONS IF FEASIBLE. NO PAYMENT SHALL BE MADE FOR METHOD SELECTED.

REMOVALS

STATION TO STATION	LOCATION	SPV.0060.050 REMOVE WATER VALVE EACH	SPV.0060.051 REMOVE WATER VALVE BOX EACH	SPV.0060.054 REMOVE HYDRANT EACH	SPV.0060.055 REMOVE OR ABANDON VALVE VAULT. EACH
US 2					
140+87.03	14.0' LT.				1
141+84.66	13.6' LT.				1
141+88.03	39.8' LT.			1	
144+85.27	43.7' LT.			1	
148+57.19	36.0' LT.			1	
152+24.05	35.0' LT.			1	
155+97.34	19.5' LT.				1
157+04.27	36.9' LT.			1	
159+87.49	36.1' LT.			1	
163+60.10	34.5' LT.			1	
168+22.57	19.9' LT.				1
168+30.65	34.3' LT.			1	
171+84.56	35.3' LT.			1	
174+01.74	18.0' LT.				1
176+21.65	48.2' LT.			1	
179+25.97	37.6' LT.			1	
182+17.04	19.9' LT.				1
186+21.80	32.5' LT.			1	
189+15.52	33.4' LT.			1	
191+24.04	32.9' LT.			1	
191+82.39	22.1' LT.	1			
194+60.97	19.0' LT.				1
195+34.59	38.4' LT.			1	
197+09.12	35.6' RT.			1	
198+62.31	33.3' LT.			1	
201+90.66	33.9' LT.			1	
205+15.81	34.3' LT.			1	
208+20.61	47.4' LT.			1	
TOWER AVE					
687+45.71	37.8' LT.			1	
687+53.80	12.9' LT.				1
OGDEN AVE					
99+49.49	10.2' LT.				1
JOHN AVE					
297+92.56	22.8' LT.			1	
299+50.98	8.8' LT.		1		
300+49.61	9.3' LT.		1		
302+02.26	20.8' LT.			1	
HUGHITT AVE					
308+28.79	20.8' LT.			1	
309+50.03	10.2' LT.		1		
310+49.13	10.1' LT.		1		
312+01.48	21.0' LT.			1	

REMOVALS (CONTINUED)

STATION TO STATION	LOCATION	SPV.0060.050 REMOVE WATER VALVE EACH	SPV.0060.051 REMOVE WATER VALVE BOX EACH	SPV.0060.054 REMOVE HYDRANT EACH	SPV.0060.055 REMOVE OR ABANDON VALVE VAULT. EACH
HAMMOND AVE					
329+49.19	19.7' LT.				1
330+51.52	19.9' LT.				1
CUMMING AVE					
339+46.80	10.2' LT.		1		
342+30.35	20.8' LT.			1	
BAXTER AVE					
349+48.14	10.3' LT.				1
350+49.87	9.3' LT.	1			
GRAND AVE SOUTH					
100+82.40	23.9' RT.			1	
GRAND AVE					
370+46.43	10.5' LT.	1			
WEEKS AVE					
380+48.44	10.3' LT.	1			
FISHER AVE					
400+45.74	12.6' LT.	1			
CATLIN AVE					
409+42.34	13.1' LT.	1			
410+81.57	14.7' LT.	1			
412+03.17	22.2' LT.			1	
BIRCH AVE					
420+51.96	9.6' LT.	1			
CYPRESS AVE					
430+50.44	9.8' LT.				1
POPLAR AVE					
450+49.73	10.3' LT.	1			
ELM AVE					
469+49.77	9.0' LT.		1		
470+49.06	9.6' LT.				1
CEDAR AVE					
480+51.90	15.7' LT.	1			
HILL AVE					
499+29.88			1		
500+28.80	11.5' LT.		1		
PROJECT ITEM TOTALS		10	8	28	14

HYDRANTS		
		SPV.0060.056
STATION TO STATION	LOCATION	HYDRANT ASSEMBLY
		EACH
US 2		
137+90.27	47.1' LT.	1
140+66.98	48.7' LT.	1
176+18.31	48.9' LT.	1
195+34.39	45.0' LT.	1
196+89.49	38.0' RT.	1
OGDEN AVE		
100+54.36	36.0' LT.	1
JOHN AVE		
300+56.45	15.5' LT.	1
HUGHITT AVE		
310+62.98	18.8' LT.	1
HAMMOND AVE		
330+67.75	35.3' LT.	1
CUMMING AVE		
340+59.63	11.5' LT.	1
BAXTER AVE		
350+53.11	14.5' LT.	1
GRAND AVE		
370+65.97	32.5' LT.	1
GRAND AVE SOUTH		
100+78.31	17.5' RT.	1
WEEKS AVE		
380+58.63	17.6' LT.	1
CLOUGH AVE		
389+46.05	17.5' LT.	1
FISHER AVE		
400+67.79	23.1' LT.	1
CATLIN AVE		
410+64.90	32.4' LT.	1
BIRCH AVE		
420+69.01	18.9' LT.	1
CYPRESS AVE		
430+49.85	13.7' LT.	1
POPLAR AVE		
450+54.98	24.0' LT.	1

HYDRANTS (CONTINUED)		
		SPV.0060.056
STATION TO STATION	LOCATION	HYDRANT ASSEMBLY
		EACH
PINE AVE		
460+62.16	9.6' LT.	1
ELM AVE		
470+59.38	18.1' LT.	1
CEDAR AVE		
480+51.19	20.1' LT.	1
HILL AVE		
500+62.86	25.6' LT.	1
PROJECT ITEM TOTALS		24

STEEL CASING PIPE, 24-INCH		
		SPV.0090.059
STATION TO STATION	LOCATION	STEEL CASING PIPE, 24-INCH JACKED
		LF
US 2		
196+04 - 195+54	4.5' RT.	50
PROJECT ITEM TOTALS		50

WATER MAIN AND VALVES									
		SPV.0090.050	SPV.0090.051	SPV.0090.052	SPV.0090.065	SPV.0090.066	SPV.0060.066	SPV.0060.067	SPV.0060.068
STATION TO STATION	LOCATION	ABANDON OR REMOVE WATER MAIN	WATER MAIN AND FITTINGS, 8-INCH HDPE DR-11	WATER MAIN AND FITTINGS, 12-INCH HDPE DR-11	WATER MAIN AND FITTINGS, 8-INCH DI CL 52	WATER MAIN AND FITTINGS, 12-INCH DI CL 52	GATE VALVE & BOX, 8-INCH	GATE VALVE & BOX, 12-INCH	CONNECT TO EXISTING WATER MAIN
		LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
US 2									
137+42 - 141+24	12.0' RT.	382		382					1
141+24 - 145+12	12.0' RT.	387		388					
145+07	12.0' RT.							1	
145+12 - 148+83	12.0' RT.	379		288		83			
148+83 - 148+91	12.0' RT.					8			
148+86	12.0' RT.							1	
148+91 - 152+58	4.5' RT.	367		149		219			
152+53	4.5' RT.							1	
152+58 - 156+27	4.5' RT.	369		169		200			
156+22	4.5' RT.							1	
156+27 - 160+29	4.5' RT.	401		324		77			
160+24	4.5' RT.							1	
160+29 - 163+99	4.5' RT.	368		370					
163+94	4.5' RT.							1	
163+99 - 167+62	4.5' RT.	363		173		190			
167+57	4.5' RT.							1	
167+62 - 171+32	4.5' RT.	368		332		38			
171+27	4.5' RT.							1	
171+32 - 174+10	4.5' RT.	740		278					
174+05	4.5' RT.							1	
174+10 - 178+72	4.5' RT.	462		462					
178+67	4.5' RT.							1	
178+72 - 182+41	4.5' RT.	371		238		131			
182+41 - 184+60	4.5' RT.	328		170		49			
184+60	4.5' RT.							1	
184+60 - 185+70	4.5' RT.	110		110					
185+70 - 188+67	4.5' RT.	298		298					
188+60	4.5' RT.							1	
188+67 - 191+59	4.5' RT.	292		292					
191+54	4.5' RT.							1	
191+59 - 198+30	4.5' RT.	670		671					
198+25	4.5' RT.							1	
198+30 - 201+48	4.5' RT.	317		318					
201+43	4.5' RT.							1	
201+48 - 204+49	4.5' RT.	324		301					
204+49	4.5' RT.							1	
204+49 - 208+28	4.5' RT. - 12.5' RT.	358		325		54			
208+28 - 209+73	4.5' RT.	151		146					
209+73	36.2' RT.							1	1
TOWER AVE									
687+44	12.9' LT.							1	1
687+44 - 688+52	12.9' LT.	109		109					1
OGDEN AVE									
99+49	10.3' LT.						1		1
99+49 - 100+58	10.3' LT.	109			109				1
JOHN AVE									
297+82 - 302+15	9.7' LT. - 1.3' LT.	433			433				2

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WATER MAIN AND VALVES (CONTINUED)

		SPV.0090.050	SPV.0090.051	SPV.0090.052	SPV.0090.065	SPV.0090.066	SPV.0060.066	SPV.0060.067	SPV.0060.068
STATION TO STATION	LOCATION	ABANDON OR REMOVE WATER MAIN	WATER MAIN AND FITTINGS, 8-INCH HDPE DR-11	WATER MAIN AND FITTINGS, 12-INCH HDPE DR-11	WATER MAIN AND FITTINGS, 8-INCH DI CL 52	WATER MAIN AND FITTINGS, 12-INCH DI CL 52	GATE VALVE & BOX, 8-INCH	GATE VALVE & BOX, 12-INCH	CONNECT TO EXISTING WATER MAIN
		LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
HUGHITT AVE									
307+90 - 312+10	9.3' LT. - 3.6' LT.	420	234		185				2
HAMMOND AVE									
327+85 - 330+90	20.3' LT.	300		300		10			2
CUMMING AVE									
337+98 - 342+47	9.7' LT. - 3.5' LT.	450	282		167				2
BAXTER AVE									
347+89 - 352+19	9.4' LT. - 3.6' LT.	429	434						2
GRAND AVE (NORTH)									
370+00 - 372+00	10.5' LT.	195	195		5				1
LAMBORN AVE									
358+46 - 360+00	10.5' LT.	176	154		5				
GRAND AVE SOUTH									
100+00 - 101+55	0' RT. - 7.3' RT.	155	155						1
CLOUGH AVE									
387+35 - 389+96	6.9' LT. - 0' LT.	287	161		100				1
FISHER AVE									
398+15 - 402+05	2.6' RT. - 12.2' LT.	390	390						2
CATLIN AVE									
407+86 - 412+40	11.4 LT. - 13.2' LT.	453	214		240				2
BIRCH AVE									
420+00 - 422+03	9.5' LT.	182	208						1
CYPRESS AVE									
430+00 - 432+50	6.6' LT. - 3.6' LT.	231	255						1
POPLAR AVE									
450+00 - 451+78	10.2' LT. - 14.2' LT.	157		183					1
PINE AVE									
460+00 - 461+70	9.3' RT. - 4.5' LT.		178						1
ELM AVE									
469+22 - 472+05	11.7' LT. - 8.9' LT.	283	283						2
CEDAR AVE									
480+00 - 482+00	6.1' LT. - 11.5' LT.	179	205						1
HILL AVE									
499+06 - 501+75	13.2' LT. - 9.8' LT.	269		269					2
PROJECT ITEM TOTALS		13012	3348	7045	1244	1059	1	18	32

TEES AND CROSSES					
STATION	LOCATION	HDPE CROSS OR TEE		DI CROSS OR TEE	
		EACH	TYPE	EACH	TYPE
US 2					
137+42.45	12.0' RT.	12"x12"x12"	TEE		
141+24.00	12.0' RT.	12"x12"	CROSS		
145+11.60	12.0' RT.			12"x8"	CROSS
148+82.82	12.0' RT.			6"x12"x6"	TEE
148+90.73	12.0' RT.			8"x12"x8"	TEE
148+90.73	4.5' RT.			8"x12"x8"	TEE
152+58.49	4.5' RT.	12"x8"	CROSS		
156+26.74	4.5' RT.			12"x12"	CROSS
160+28.73	4.5' RT.	12"x8"	CROSS		
163+98.77	4.5' RT.	12"x8"	CROSS		
167+62.07	4.5' RT.			12"x8"	CROSS
171+31.62	4.5' RT.	12"x8"x12"	TEE		
174+09.82	4.5' RT.	12"x8"x12"	TEE		
178+71.81	4.5' RT.	12"x8"	CROSS		
182+40.81	4.5' RT.			12"x8"	CROSS
185+69.65	4.5' RT.	12"x8"x12"	TEE		
188+67.45	4.5' RT.	12"x8"x12"	TEE		
191+59.47	4.5' RT.	12"x12"x12"	TEE		
198+30.46	4.5' RT.	12"x8"x12"	TEE		
201+48.47	4.5' RT.	12"x8"	CROSS		
204+49.20	4.5' RT.	12"x8"x12"	TEE		
208+27.89	4.5' RT.	12"x12"	CROSS		

WATER SERVICES - VALVES									
		SPV.0090.057	SPV.0090.058	SPV.0090.064	SPV.0060.050	SPV.0060.051	SPV.0060.065	SPV.0060.067	SPV.0060.069
STATION	LOCATION	WATER SERVICE, 6-INCH HDPE	WATER SERVICE, 12-INCH HDPE	WATER SERVICE, 6-INCH DI CL 52	REMOVE WATER VALVE	REMOVE WATER VALVE BOX	GATE VALVE & BOX, 6-INCH	GATE VALVE & BOX, 12-INCH	CONNECT TO EXISTING WATER SERVICE
		LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH
US 2									
176+39.67	50.0' LT.	55				1	1		1
188+63.79	46.3' RT.	42							1
193+56.13	50.0' RT.	46			1		1		1
194+86.68	50.0' RT.	46			1		1		1
195+41.86	50.0' RT.	46			1		1		1
196+89.49	41.0' RT.		41		1			1	1
HAMMOND AVE									
328+73.51	50.0' LT.	30			1		1		1
CUMMING AVE									
342+15.79	30.7' LT.			29	1		1		1
PROJECT ITEM TOTALS		265	41	29	6	1	6	1	8

WATER SERVICES (DI) - CURB STOPS

		SPV.0090.060	SPV.0090.061	SPV.0090.062	SPV.0090.063	SPV.0060.052	SPV.0060.053	SPV.0060.061	SPV.0060.062	SPV.0060.063	SPV.0060.064	SPV.0060.096	SPV.0060.097	SPV.0060.098	SPV.0060.099	SPV.0060.069
		WATER SERVICE						CURB STOP AND BOX				CORPORATION STOP				
STATION	LOCATION	1-INCH COPPER	1.25-INCH COPPER	1.5-INCH COPPER	2-INCH COPPER	REMOVE CURB STOP	REMOVE CURB STOP BOX	1-INCH	1.25-INCH	1.5-INCH	2-INCH	1-INCH	1.25-INCH	1.5-INCH	2-INCH	CONNECT TO EXISTING WATER SERVICE
		LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
US 2																
149+51.90	50.0' LT.	55					1	1				1				1
150+18.70	50.0' LT.	55					1	1				1				1
150+47.75	50.0' LT.	55					1	1				1				1
151+02.47	50.0' RT.				46	1					1				1	1
154+01.26	50.0' LT.	55					1	1				1				1
154+18.90	50.0' RT.	46				1		1				1				1
154+21.12	50.0' LT.	55					1	1				1				1
154+71.76	50.0' RT.	46				1		1				1				1
165+14.15	50.0' RT.	46				1		1				1				1
165+77.82	50.0' RT.		46			1			1				1			1
180+51.28	50.0' RT.				46	1					1				1	1
181+43.39	50.0' LT.	55					1	1				1				1
181+92.15	50.0' LT.	55					1	1				1				1
JOHN AVE																
298+82.52	35.0' LT.				34	1					1				1	1
301+50.31	35.0' RT.	37				1		1				1				1
HUGHITT AVE																
308+22.84	35.0' RT.	39				1		1				1				1
CUMMING AVE																
342+20.79	35.0' RT.			38		1				1				1		1
CLOUGH AVE																
387+39.63	33.0' LT.	27				1		1				1				1
388+69.69	33.0' LT.	27				1		1				1				1
CATLIN AVE																
408+44.85	35.0' LT.	24				1		1				1				1
410+94.94	35.0' RT.	48				1		1				1				1
PROJECT ITEM TOTALS		725	46	38	126	14	7	16	1	1	3	16	1	1	3	21

WATER SERVICES (HDPE) - CURB STOPS																
		SPV.0090.053	SPV.0090.054	SPV.0090.055	SPV.0090.056	SPV.0060.052	SPV.0060.053	SPV.0060.061	SPV.0060.062	SPV.0060.063	SPV.0060.064	SPV.0060.057	SPV.0060.058	SPV.0060.059	SPV.0060.060	SPV.0060.069
		WATER SERVICE						CURB STOP AND BOX				TAPPING TEE WITH ELECTROFUSION SADDLE				
STATION	LOCATION	1-INCH HDPE	1.25-INCH HDPE	1.5-INCH HDPE	2-INCH HDPE	REMOVE CURB STOP	REMOVE CURB STOP BOX	1-INCH	1.25-INCH	1.5-INCH	2-INCH	1-INCH	1.25-INCH	1.5-INCH	2-INCH	CONNECT TO EXISTING WATER SERVICE
		LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
US 2																
138+11.08	50.0' LT.	62					1	1				1				1
138+85.07	50.0' RT.	38					1	1				1				1
140+29.58	50.0' LT.	62					1	1				1				1
142+88.42	50.0' LT.		62				1		1				1			1
143+22.11	50.0' RT.	38					1	1				1				1
143+28.84	50.0' LT.		62				1		1				1			1
143+64.45	50.0' LT.	62					1	1				1				1
143+94.04	50.0' LT.	62					1	1				1				1
147+10.18	50.0' LT.	62					1	1				1				1
151+67.98	50.0' LT.			55			1			1				1		1
153+01.34	50.0' LT.	55					1	1				1				1
157+71.46	50.0' RT.	46				1		1				1				1
158+46.24	50.0' RT.	46				1		1				1				1
159+12.05	50.0' RT.	46				1		1				1				1
160+91.42	50.0' LT.	55					1	1				1				1
161+91.08	50.0' LT.	55					1	1				1				1
161+92.75	50.0' RT.	46				1		1				1				1
162+37.69	50.0' LT.	55					1	1				1				1
162+53.53	50.0' LT.	55					1	1				1				1
162+64.02	50.0' LT.	55					1	1				1				1
162+74.42	50.0' LT.	55					1	1				1				1
162+87.89	50.0' LT.	55					1	1				1				1
169+80.95	50.0' RT.	46				1		1				1				1
170+62+55	50.0' RT.	46				1		1				1				1
172+02.94	50.0' LT.	55					1	1				1				1
176+50.05	50.0' RT.			46		1				1				1		1
180+44.19	50.0' LT.	55					1	1				1				1
184+84.03	50.0' LT.	55					1	1				1				1
185+00.07	50.0' RT.	46				1		1				1				1
186+39.29	50.0' LT.	55					1	1				1				1
188+11.13	50.0' LT.	55					1	1				1				1
189+35.40	50.0' LT.	55					1	1				1				1

WATER SERVICES (HDPE) - CURB STOPS (CONTINUED)

		SPV.0090.053	SPV.0090.054	SPV.0090.055	SPV.0090.056	SPV.0060.052	SPV.0060.053	SPV.0060.061	SPV.0060.062	SPV.0060.063	SPV.0060.064	SPV.0060.057	SPV.0060.058	SPV.0060.059	SPV.0060.060	SPV.0060.069
		WATER SERVICE						CURB STOP AND BOX				TAPPING TEE WITH ELECTROFUSION SADDLE				
STATION	LOCATION	1-INCH HDPE	1.25-INCH HDPE	1.5-INCH HDPE	2-INCH HDPE	REMOVE CURB STOP	REMOVE CURB STOP BOX	1-INCH	1.25-INCH	1.5-INCH	2-INCH	1-INCH	1.25-INCH	1.5-INCH	2-INCH	CONNECT TO EXISTING WATER SERVICE
		LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
US 2	(CONTINUED)															
190+25.36	50.0' RT.	46				1		1				1				1
196+95.92	50.0' LT.	55					1	1				1				1
198+85.54	50.0' LT.	55					1	1				1				1
199+20.19	50.0' LT.	55					1	1				1				1
200+35.27	50.0' LT.	55					1	1				1				1
200+85.37	50.0' LT.	55					1	1				1				1
202+11.26	50.0' LT.	55					1	1				1				1
HAMMOND AVE																
327+94.76	50.0' LT.	30				1		1				1				1
328+50.99	50.0' RT.	70				1		1				1				1
328+88.77	50.0' RT.	70				1		1				1				1
329+33.34	50.0' LT.	30				1		1				1				1
CUMMING AVE																
338+57.74	35.0' LT.	30				1		1				1				1
338+58.64	35.0' RT.		41			1			1				1			1
BAXTER AVE																
348+69.69	35.0' LT.	32				1		1				1				1
348+88.81	35.0' RT.	39				1		1				1				1
349+17.89	35.0' RT.	39				1		1				1				1
352+14.94	35.0' LT.	25				1		1				1				1
LAMBORN AVE																
359+20.91	51.7' RT.	62				1		1				1				1
359+23.42	55.7' LT.		46			1			1				1			1
GRAND AVE SOUTH																
101+03.98	40.0' LT.	48				1		1				1				1
101+14.98	40.0' RT.	33				1		1				1				1
101+53.35	40.0' RT.	33				1		1				1				1
CLOUGH AVE																
389+36.45	33.0' LT.				27	1					1				1	1
FISHER AVE																
401+42.36	35.0' RT.	47				1		1				1				1
CATLIN AVE																
411+49.50	35.0' LT.	23				1		1				1				1
412+24.24	35.0' LT.	23				1		1				1				1
CYPRESS AVE																
432+12.69	35.0' RT.	39				1		1				1				1
432+18.40	35.0' LT.			31		1				1				1		1

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WATER SERVICES (HDPE) - CURB STOPS (CONTINUED)																
		SPV.0090.053	SPV.0090.054	SPV.0090.055	SPV.0090.056	SPV.0060.052	SPV.0060.053	SPV.0060.061	SPV.0060.062	SPV.0060.063	SPV.0060.064	SPV.0060.057	SPV.0060.058	SPV.0060.059	SPV.0060.060	SPV.0060.069
		WATER SERVICE						CURB STOP AND BOX				TAPPING TEE WITH ELECTROFUSION SADDLE				
STATION	LOCATION	1-INCH HDPE	1.25-INCH HDPE	1.5-INCH HDPE	2-INCH HDPE	REMOVE CURB STOP	REMOVE CURB STOP BOX	1-INCH	1.25-INCH	1.5-INCH	2-INCH	1-INCH	1.25-INCH	1.5-INCH	2-INCH	CONNECT TO EXISTING WATER SERVICE
		LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
POPLAR AVE																
450+78.65	26.5' RT.	26				1		1				1				1
451+14.02	35.7' LT.		26			1			1				1			1
PINE AVE																
460+74.24	35.1' LT.	44				1		1				1				1
ELM AVE																
471+88.44	34.0' LT.	34				1		1				1				1
CEDAR AVE																
481+53.46	33.0' RT.	40				1		1				1				1
481+66.66	37.0' LT.	31				1		1				1				1
HILL AVE																
499+13.90	42.5' RT.	49				1		1				1				1
499+18.91	42.9' RT.	49				1		1				1				1
PROJECT ITEM TOTALS		2800	237	132	27	38	30	59	5	3	1	59	5	3	1	68

INSULATION		
		612.0902.S
STATION TO STATION	LOCATION	INSULATION BOARD POLYSTYRENE (INCH), 4-INCH
		SQ YD
US 2		
148+48.58	12.0' RT.	3.6
152+21.97	4.5' RT.	3.6
155+92.02	4.5' RT.	3.6
156+83.15	4.5' RT.	3.6
159+92.98	4.5' RT.	3.6
163+71.76	4.5' RT.	3.6
165+14.15	16.8' RT.	3.6
165+77.82	16.8' RT.	3.6
167+39.77	4.5' RT.	3.6
169+80.95	16.8' RT.	3.6
170+62+55	16.8' RT.	3.6
171+00.81	4.5' RT.	3.6
174+01.45	4.5' RT.	3.6
176+50.05	16.8' RT.	3.6
178+49.69	4.5' RT.	3.6
180+51.28	16.8' RT.	3.6
182+49.62	4.5' RT.	3.6
185+00.07	16.8' RT.	3.6
185+48.24	4.5' RT.	3.6
188+11.13	16.8' RT.	3.6
188+81.18	4.5' RT.	3.6
190+25.36	16.8' RT.	3.6
191+32.42	4.5' RT.	7.1
192+91.99	4.5' RT.	3.6
198+60.95	4.5' RT.	3.6
200+97.29	4.5' RT.	7.1
TOWER AVE		
141+23.97	1.25' LT.	3.6
OGDEN AVE		
145+11.66	.52' RT	3.6
JOHN AVE		
299+66.50	1.3' LT.	3.6
300+63.75	1.3' LT.	3.6
HUGHITT AVE		
308+01.11	3.3' LT.	3.6
309+47.37	3.5' LT.	3.6
309+65.72	3.6' LT.	7.1
310+56.06	3.7' LT.	3.6
311+99.87	5.1' LT.	3.6
HAMMOND AVE		
327+94.74	20.5' LT.	3.6
329+60.28	20.4' LT.	3.6
CUMMING AVE		
338+24.87	4.0' LT.	3.6
339+44.24	3.9' LT.	3.6
339+65.28	3.7' LT.	7.1
340+64.48	3.1' LT.	3.6

INSULATION (CONTINUED)		
		612.0902.S
STATION TO STATION	LOCATION	INSULATION BOARD POLYSTYRENE (INCH), 4-INCH
		SQ YD
BAXTER AVE		
349+83.00	3.6' LT.	3.6
350+65.47	3.8' LT.	3.6
LAMBORN AVE		
359+31.31	10.5' LT.	3.6
359+82.88	10.5' LT.	3.6
GRAND AVE		
370+67.65	10.5' LT.	3.6
273+00	10.5' LT.	3.6
WEEKS AVE		
380+55.48	10.5' LT.	3.6
381+26.25	10.5' LT.	3.6
CLOUGH AVE		
389+22.92	0.0'	3.6
389+64.72	0.0'	3.6
FISHER AVE		
399+82.95	1.8' RT.	3.6
400+60.87	11.5' LT.	3.6
CATLIN AVE		
409+82.99	12.2' LT.	3.6
410+62.09	12.5' LT.	3.6
BIRCH AVE		
420+62.21	9.6' LT.	3.6
CYPRESS AVE		
430+06.98	6.5' LT.	3.6
POPLAR AVE		
450+43.35	10.2' LT.	3.6
PINE AVE		
460+64.05	9.0' RT.	3.6
461+64.09	9.0' RT.	3.6
ELM AVE		
469+61.42	4.5' RT.	3.6
472+06.85	4.5' RT.	3.6
CEDAR AVE		
480+59.57	6.1' LT.	3.6
PROJECT ITEM TOTALS		238.4

LANDSCAPE - QUANTITIES

PLANT DATA CHART

PROJECT 8680-00-71
CATEGORY 0030

ITEM NUMBER	SYMBOL	COMMON NAME	LATIN NAME	TYPE	AVG. MATURE HEIGHT	SIZE (CAL. OR HEIGHT) WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE BALL / POT DIAM	BALL / POT DEPTH	ROOT SPREAD	PLANT HOLE DIAM	PLANT HOLE DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECTION REQ'D.	MULCH RING DIA.	TREE GRATE
	LARGE DECIDUOUS TREES																
632.0101.001	TREE 'F'	COMMON HACKBERRY	CELTIS OCCIDENTALIS	1	55'	3" CALIPER	B& B	36"	24"	~	102"	24"	Brace	3	Yes	IN BED	NO
632.0101.002	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	1	40'	3" CALIPER	B& B	36"	24"	~	102"	24"	Brace	3	Yes	IN BED	NO
632.0101.003	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	1	35'	3" CALIPER	B& B	36"	24"	~	102"	24"	Brace	3	Yes	IN BED	NO
632.0101.004	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	1	25'	2" CALIPER	B& B	24"	24"	~	102"	24"	Brace	2	Yes	IN BED	NO
632.0101.005	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	1	30'	3" CALIPER	B& B	36"	30"	~	60"	30"	Brace	3	Yes	IN BED	NO
632.0101.006	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	1	40'	3" CALIPER	B& B	36"	24"	~	102"	24"	Brace	3	Yes	IN BED	NO
632.0101.007	TREE 'G'	SPRING SNOW CRABAPPLE	MALUS 'PRAIRIE ROSE'	1	20'	2" CALIPER	B& B	24"	24"	~	102"	24"	Brace	3	Yes	IN BED	NO
632.0101.008	TREE 'H'	PRAIRIE ROSE CRABAPPLE	MALUS 'SPRING SNOW'	1	30'	2" CALIPER	B& B	24"	24"	~	102"	24"	Brace	3	Yes	IN BED	NO
	LARGE AND MEDIUM DECIDUOUS SHRUBS																
632.0201.001	AS	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	2	12"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.002	CC	CRANBERRY COTONEASTER	COTONEASTER APICULULATUS	2	36"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	
632.0201.003	DGS	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	2	24"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.004	LPS	LITTLE PRINCESS SPIREA	SPIRAEA JAPONICA 'LITTLE PRINCESS'	2	24"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.005	PPL	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	2	36"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.010	AP	ABBOTSWOOD POTENTILLA	POTENTILLA FRUITICOSA 'ABBOTSWOOD'	2	24"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.011	GP	GOLDFINGER POTENTILLA	POTENTILLA FRUITICOSA 'GOLDFINGER'	2	36"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
	LARGE AND MEDIUM EVERGREEN SHRUBS																
632.0201.006	BFJ	BLUE FOREST JUNIPER	JUNIPERUS SABINA 'BLUE FOREST'	3	12"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.007	DNS	DWARF NORWAY SPRUCE	PICEA ABIES 'PUMILA'	3	24"	#3	CG	8"	8"		24"	8"	No	1	NO	IN BED	
632.0201.008	VCP	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3	18"	#3	CG	8"	8"	~	24"	8"	No	1	NO	IN BED	~
632.0201.009	SCS	SHERWOOD COMPACT SPRUCE	PICEA ABIES 'SHERWOOD COMPACT'	3	15'	#15	CG	24"	24"		60"	30"	Brace	3	NO	IN BED	
	ORNAMENTAL GRASS																
SPV.0060.078	FRG	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	4	36"	#1	CG	5"	5"	~	15"	5"	No	1	NO	IN BED	~

B&B: BALLED AND BURLAPPED
CG: CONTAINER GROWN

ITEM NUMBER	COMMON NAME	ITEM TOTALS EACH
	TREES	
632.0101.001	COMMON HACKBERRY	5
632.0101.002	DISCOVERY ELM	19
632.0101.003	HARVEST GOLD LINDEN	32
632.0101.004	IVORY SILK LILAC TREE	99
632.0101.005	NORTHERN ACCLAIM HONEYLOCUST	77
632.0101.006	SIENNA GLEN MAPLE	43
632.0101.007	SPRING SNOW CRABAPPLE	3
632.0101.008	PRAIRIE ROSE CRABAPPLE	5
	DECIDUOUS SHRUBS	
632.0201.001	ALPINE SPIREA	267
632.0201.010	ABBOTSWOOD POTENTILLA	43
632.0201.002	CRANBERRY COTONEASTER	136
632.0201.003	DAKOTA GOLDCHARM SPIREA	357
632.0201.011	GOLDFINGER POTENTILLA	42
632.0201.004	LITTLE PRINCESS SPIREA	92
632.0201.005	PRAIRIE PETITE LILAC	520
	EVERGREEN SHRUBS	
632.0201.006	BLUE FOREST JUNIPER	50
632.0201.007	DWARF NORWAY SPRUCE	22
632.0201.008	VALLEY CUSHION PINE	805
632.0201.009	SHERWOOD COMPACT SPRUCE	3
	SPV.0060.078	
	ORNAMENTAL GRASSES	
	FEATHER REED GRASS	1436

LANDSCAPE - TREE ITEMS

STATION POINT	OFFSET	OFFSET DIR	ITEM	COMMON NAME	LATIN NAME	SIZE	ROOT
135+46.50	65.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
135+58.65	70.3	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
135+70.75	65.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
135+32.22	68.3	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
135+45.50	72.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
135+63.55	69.2	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
135+94.90	88.4	RT	TREE 'A'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
138+22.93	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
138+48.42	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
138+87.78	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
139+21.28	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
139+58.24	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
143+56.55	57.8	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
143+94.43	57.8	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
144+39.00	57.8	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
144+61.89	59.1	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
144+74.10	63.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
144+77.66	75.2	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
144+82.63	90.2	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
145+00.31	72.1	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
145+66.06	59.2	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
145+79.07	52.7	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
145+94.37	54.0	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
146+18.50	55.0	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
146+23.55	47.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
146+63.78	47.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
146+82.48	53.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
147+05.41	46.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
147+40.78	48.7	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
147+76.09	48.7	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
148+12.58	48.7	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
148+41.61	53.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
148+53.21	53.1	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
148+54.07	66.5	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
149+30.17	66.4	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
149+30.17	52.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
149+88.15	54.8	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
150+19.59	51.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
150+61.73	51.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
151+03.18	51.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
151+43.83	51.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
151+79.15	51.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
153+08.78	52.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
153+33.88	52.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
153+57.18	52.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
154+79.99	54.8	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
156+95.77	56.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
156+96.12	79.1	LT	TREE 'H'	PRAIRIE ROSE CRABAPPLE	MALUS 'PRAIRIE ROSE'	2" CALIPER	B & B
157+09.27	52.0	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
157+25.85	60.0	LT	TREE 'H'	PRAIRIE ROSE CRABAPPLE	MALUS 'PRAIRIE ROSE'	2" CALIPER	B & B
157+76.33	56.6	LT	TREE 'G'	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	2" CALIPER	B & B
158+19.62	60.0	LT	TREE 'H'	PRAIRIE ROSE CRABAPPLE	MALUS 'PRAIRIE ROSE'	2" CALIPER	B & B
158+64.29	60.0	L1	TREE 'H'	PRAIRIE ROSE CRABAPPLE	MALUS 'PRAIRIE ROSE'	2" CALIPER	B & B
159+02.42	60.0	LT	TREE 'G'	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	2" CALIPER	B & B
159+41.08	60.0	LT	TREE 'G'	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	2" CALIPER	B & B
159+88.32	60.0	LT	TREE 'H'	PRAIRIE ROSE CRABAPPLE	MALUS 'PRAIRIE ROSE'	2" CALIPER	B & B
162+14.97	55.7	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
162+50.00	55.7	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
162+82.68	55.7	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
163+07.10	55.7	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
163+28.83	54.1	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
163+45.09	54.1	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
163+61.74	54.1	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
164+56.84	52.5	L1	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
164+99.00	52.5	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
165+02.47	49.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
166+35.03	49.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
166+45.85	52.5	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
166+67.09	49.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
167+06.70	52.1	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
167+21.41	52.1	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
168+25.73	69.5	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
168+33.28	61.0	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
168+34.19	51.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
168+43.00	54.4	L1	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
168+47.40	51.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
168+74.08	52.3	LT	TREE 'F'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
168+74.78	51.4	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
169+13.95	52.3	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
169+15.28	51.4	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
169+53.68	52.3	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
169+54.82	51.4	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
169+93.75	52.3	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
170+34.08	52.3	LT	TREE 'F'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
170+34.20	51.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
170+72.04	56.9	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
170+73.51	52.3	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
171+10.95	51.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
171+62.69	50.7	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
171+93.85	52.3	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
172+03.08	51.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
172+59.17	67.7	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
172+95.42	56.0	L1	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
173+17.84	52.3	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
173+58.00	52.3	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
174+38.17	52.3	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
174+47.80	52.9	R1	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
174+59.85	52.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
174+81.00	52.3	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
175+15.15	52.3	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
175+57.61	52.3	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
175+76.80	57.8	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
176+00.00	52.3	L1	TREE 'D'	SILNVA GLEN MAPLE	ACER X FREEMANI 'SILNVA'	3" CALIPER	B & B
176+04.03	47.4	RT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
176+77.79	52.3	LT	TREE 'F'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
177+01.09	50.9	RT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
177+16.30	52.3	L1	TREE 'L'	DISCOVLRY LUM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVLRY'	3" CALIPER	B & B
177+43.47	57.2	RT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
177+55.58	52.3	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
177+84.37	57.2	R1	TREE 'L'	DISCOVLRY LUM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVLRY'	3" CALIPER	B & B
177+95.92	52.3	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
178+23.07	48.6	RT	TREE 'F'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
178+26.73	52.3	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
179+20.34	66.7	LT	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
179+20.60	47.4	R1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
179+27.73	57.7	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
179+36.47	53.6	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
179+60.73	47.4	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
179+97.26	47.4	R1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
180+06.20	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
180+57.65	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
181+22.73	47.4	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
181+62.70	47.4	R1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
181+82.90	50.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
181+91.23	60.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
182+00.00	70.2	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
182+13.00	77.8	R1	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
182+92.76	77.5	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
183+03.20	69.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
183+12.39	61.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
183+20.51	51.3	R1	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
183+82.14	47.2	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
184+21.01	47.2	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
184+61.63	47.2	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
184+63.05	48.9	L1	TREE 'D'	SILNVA GLEN MAPLE	ACER X FREEMANI 'SILNVA'	3" CALIPER	B & B
185+02.35	48.9	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
185+05.86	47.2	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
185+33.43	68.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
185+42.42	78.5	R1	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
185+50.35	48.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
185+50.78	68.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
185+71.06	63.7	RT	TREE 'F'	COMMON HACKBERRY	CELTIS OCCIDENTALIS	3" CALIPER	B & B
185+90.28	48.4	R1	TREE 'D'	SILNVA GLEN MAPLE	ACER X FREEMANI 'SILNVA'	3" CALIPER	B & B
186+05.86	72.9	RT	TREE 'F'	COMMON HACKBERRY	CELTIS OCCIDENTALIS	3" CALIPER	B & B
186+31.08	48.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
186+51.19	63.7	RT	TREE 'F'	COMMON HACKBERRY	CELTIS OCCIDENTALIS	3" CALIPER	B & B
186+69.73	48.4	R1	TREE 'D'	SILNVA GLEN MAPLE	ACER X FREEMANI 'SILNVA'	3" CALIPER	B & B
186+91.27	63.7	RT	TREE 'F'	COMMON HACKBERRY	CELTIS OCCIDENTALIS	3" CALIPER	B & B
187+05.02	48.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
187+21.85	63.7	RT	TREE 'F'	COMMON HACKBERRY	CELTIS OCCIDENTALIS	3" CALIPER	B & B
187+48.40	48.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
187+67.55	47.7	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
187+85.91	48.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
188+01.71	47.7	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
188+20.71	68.9	R1	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
188+28.45	48.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
188+29.87	78.5	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
188+38.30	68.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
188+56.41	56.4	R1	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
188+66.90	59.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
188+79.45	72.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
189+72.63	53.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
189+86.29	46.6	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
190+16.48	46.6	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
190+62.10	46.6	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
192+24.21	49.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
192+36.92	49.9	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
192+43.06	47.1	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
192+80.90	49.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
192+93.54	49.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
193+08.46	47.1	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
193+29.71	49.9	R1	TREE 'U'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
193+41.42	49.9	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
193+67.40	47.4	LT	TREE 'F'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
194+01.28	47.4	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
194+40.83	47.4	L1	TREE 'L'	DISCOVLRY LUM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVLRY'	3" CALIPER	B & B
194+79.03	47.4	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
197+52.80	48.6	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
197+76.90	48.6	L1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
197+88.00	47.9	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
198+71.78	47.9	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
198+42.70	47.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
199+45.42	47.2	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
199+69.04	47.2	L1	TREE 'D'	SILNVA GLEN MAPLE	ACER X FREEMANI 'SILNVA'	3" CALIPER	B & B
199+76.81	47.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
200+16.15	47.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
200+59.86	47.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
202+14.07	50.0	R1	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
202+58.50	47.2	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3

LANDSCAPE - TREE ITEMS

STATION POINT	OFFSET	OFFSET DIR	ITEM	COMMON NAME	LATIN NAME	SIZE	ROOT
204+92.37	61.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
205+05.62	59.1	RT	TRLL 'D'	IVORY SILK LILAC TRLL	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
205+19.24	53.5	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
205+50.93	47.4	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
205+71.24	65.6	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
205+72.76	52.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
206+25.70	65.6	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
206+26.88	52.5	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
206+79.39	48.8	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
206+83.53	50.0	LT	TRLL 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
207+23.21	50.0	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
207+29.96	49.0	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
207+60.37	54.5	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+64.94	62.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+67.77	49.4	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+72.87	69.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+73.62	66.1	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+83.14	68.4	LT	TRLL 'D'	IVORY SILK LILAC TRLL	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+83.98	73.0	RT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
207+95.40	67.8	LT	TRLL 'D'	IVORY SILK LILAC TRLL	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+07.08	79.0	LT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+22.58	78.7	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+55.29	72.2	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+65.80	76.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+67.77	89.4	RT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
208+72.74	71.8	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+75.21	65.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+82.06	56.9	RT	TRLL 'D'	IVORY SILK LILAC TRLL	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+86.06	66.4	LT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+86.33	78.4	RT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
208+87.64	44.7	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
208+88.62	58.3	RT	TREE 'F'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
209+03.40	57.3	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
209+08.54	47.1	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
209+42.66	46.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
209+66.79	45.7	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
209+96.12	52.0	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
210+09.81	58.0	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
210+20.28	47.6	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
OGDEN AVE							
98+85.24	41.6	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
99+04.55	41.6	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
99+14.12	33.1	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
JOHN AVE							
298+57.09	20.9	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
299+58.89	21.0	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
301+13.13	19.9	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
301+48.07	19.9	LT	TREE 'E'	DISCOVERY ELM	ULUMUS DAVIDIANA VAR. JAPONICA 'DISCOVERY'	3" CALIPER	B & B
HAMMOND AVE							
328+793.17	46.0	RT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
329+29.64	47.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
BAXTER AVE							
350+83.58	37.2	LT	TRLL 'D'	IVORY SILK LILAC TRLL	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
351+71.70	37.2	LT	TREE 'D'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
LAMBORN AVE							
357+86.40	46.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
357+92.28	36.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
357+93.06	56.7	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
358+79.01	50.4	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
358+85.64	71.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
358+89.68	59.6	RT	TRLL 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
359+22.84	35.9	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
359+31.43	43.1	RT	TRLL 'D'	IVORY SILK LILAC TRLL	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
359+38.46	38.3	LT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
359+43.59	46.3	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
CLOUGH AVE							
389+33.20	29.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
FISHER AVE							
398+35.88	26.0	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
398+43.73	32.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
398+65.29	20.4	RT	TRLL 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
398+67.01	26.0	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
398+95.68	20.4	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
398+96.81	26.0	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
399+28.17	20.4	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
399+28.75	26.0	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
401+16.13	21.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
401+52.37	21.7	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
CATLIN AVE							
408+64.25	41.8	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
408+74.16	43.9	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
409+00.00	39.4	LT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
409+03.84	41.8	RT	TREE 'D'	SIENNA GLEN MAPLE	ACER X FREEMANI 'SIENNA'	3" CALIPER	B & B
411+63.15	34.0	LT	TREE 'A'	NORTHERN ACCLAIM HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HAVRE'	3" CALIPER	B & B
CYPRESS AVE							
431+26.84	32.9	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
431+56.96	32.9	RT	TRLL 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
MORTORELLI DRIVE							
438+44.12	26.2	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
438+64.57	26.2	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
439+32.20	40.0	RT	TREE 'B'	IVORY SILK LILAC TREE	SYRINGA RETICULATA 'IVORY SILK'	2" CALIPER	B & B
CEDAR AVE							
481+08.56	34.2	LT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
481+08.56	21.0	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
481+54.56	34.2	LT	TRLL 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B
481+54.56	21.0	RT	TREE 'C'	HARVEST GOLD LINDEN	TILIA MONGOLICA 'HARVEST GOLD'	3" CALIPER	B & B

LANDSCAPE - PLANTING BED STATIONING

STARTING STATION POINT	ENDING STATION POINT	OFFSET	ITEM	QUANTITY	COMMON NAME	LATIN NAME	SIZE	ROOT
135+34 8	136+08 28	98 18 LT	GRASS	33	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	32	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
			SHRUB	24	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	5 GALLON	POT
			SHRUB	21	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
135+38 83	136+83 42	57 87 RT	GRASS	31	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	20	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
			SHRUB	39	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			SHRUB	22	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	11	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
136+08 73	137+01 16	81 03 LT	GRASS	24	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		100 60 LT	SHRUB	19	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
				9	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
136+97 14	2+40 97	72 96 RT	GRASS	9	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		44 55 LT	SHRUB	8	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
138+19 53	138+34 80	46 37 LT	SHRUB	8	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			SHRUB	8	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
138+85 04	139+62 57	46 97 LT	SHRUB	22	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
				10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
140+05 06	140+14 63	56 81 LT	SHRUB	6	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	8	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
143+44 40	144+10 90	57 2 RT	SHRUB	9	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	9	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	21	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	9	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
144+29 70	99+14 02	55 14 RT	SHRUB	10	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		48 40 LT	SHRUB	11	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	40	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	10	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	29	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
144+30 11	144+85 24	53 17 LT	GRASS	9	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	7	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	5	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			SHRUB	7	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
145+58 80	146+29 35	59 20 LT	SHRUB	45	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	1 GALLON	POT
		47 07 LT	SHRUB	12	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
			SHRUB	11	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	28	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			GRASS	42	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
99+17 86	146+05 03	36 64 RT	GRASS	11	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		51 49 RT	SHRUB	15	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
146+07 98	147+05 41	46 97 RT	GRASS	34	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	21	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	15	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
147+16 11	147+92 27	95 14 RT	SHRUB	11	GOLDFINGER POTENTILLA	POTENTILLA FRUTICOSA 'GOLDFINGER'	3 GALLON	POT
		45 57 RT	SHRUB	22	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
148+14 58	148+52 88	51 53 RT	GRASS	11	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		54 43 RT	SHRUB	5	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
299+24 14	299+42 90	38 46 LT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	2	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
299+24 30	149+36 12	36 72 RT	SHRUB	13	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		52 51 RT	SHRUB	9	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	8	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
140+47 56	149+54 79	55 25 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
149+04 04	150+23 61	51 30 RT	SHRUB	22	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	22	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	40	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	11	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
153+01 05	153+66 61	52 03 RT	SHRUB	5	GOLDFINGER POTENTILLA	POTENTILLA FRUTICOSA 'GOLDFINGER'	3 GALLON	POT
			SHRUB	5	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	9	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
154+76 47	155+11 63	57 41 LT	SHRUB	7	BLUE FOREST JUNIPER	JUNIPERUS SABINA 'BLUE FOREST'	3 GALLON	POT
		52 36 LT	SHRUB	5	DWARF NORWAY SPRUCE	PICEA ABIES 'PUMILA'	3 GALLON	POT
			GRASS	9	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	9	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
155+22 20	155+30 44	53 00 LT	SHRUB	5	DWARF NORWAY SPRUCE	PICEA ABIES 'PUMILA'	3 GALLON	POT
		47 08 LT	SHRUB	1	SHERWOOD COMPACT SPRUCE	PICEA ABIES 'SHERWOOD COMPACT'	10 GALLON	POT
155+47 11	155+77 79	47 60 LT	SHRUB	4	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
			SHRUB	12	DWARF NORWAY SPRUCE	PICEA ABIES 'PUMILA'	3 GALLON	POT
				2	SHERWOOD COMPACT SPRUCE	PICEA ABIES 'SHERWOOD COMPACT'	15 GALLON	POT
155+85 40	300+01 62	47 03 LT	SHRUB	8	BLUE FOREST JUNIPER	JUNIPERUS SABINA 'BLUE FOREST'	3 GALLON	POT
		46 25 LT	SHRUB	11	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
			SHRUB	6	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
328+73 63	329+15 92	46 79 LT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	12	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
156+98 86	157+17 35	65 12 LT	SHRUB	10	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		51 17 LT	SHRUB	23	BLUE FOREST JUNIPER	JUNIPERUS SABINA 'BLUE FOREST'	3 GALLON	POT
328+82 14	157+50 46	46 95 RT	SHRUB	21	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
		51 63 RT	GRASS	16	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	24	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
158+08 20	158+20 02	55 60 RT	SHRUB	12	ARROTSWOOD POTENTILLA	POTENTILLA FRUITICOSA 'ARROTSWOOD'	1 GALLON	POT
		51 90 RT	GRASS	4	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
158+86 14	159+33 67	53 66 RT	SHRUB	11	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
159+63 75	338+32 10	51 61 RT	SHRUB	5	GOLDFINGER POTENTILLA	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
		32 75 LT	GRASS	40	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	5	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	5	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
340+66 70	161+03 44	35 16 RT	SHRUB	4	GOLDFINGER POTENTILLA	POTENTILLA FRUTICOSA 'GOLDFINGER'	3 GALLON	POT
		51 03 LT	GRASS	13	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	4	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
338+63 28	339+36 31	30 35 RT	SHRUB	11	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	11	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			GRASS	9	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
161+11 94	161+21 10	52 22 RT	SHRUB	5	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
		57 76 RT	GRASS	3	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
162+46 33	162+63 27	52 50 RT	SHRUB	8	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
162+92 08	163+03 42	52 50 RT	SHRUB	5	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
163+20 99	163+66 41	51 32 LT	SHRUB	12	BLUE FOREST JUNIPER	JUNIPERUS SABINA 'BLUE FOREST'	3 GALLON	POT
		57 26 LT	SHRUB	12	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
			SHRUB	14	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
165+14 46	165+20 17	51 50 RT	GRASS	3	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
165+50 21	165+61 45	51 50 RT	GRASS	5	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
165+89 66	166+74 03	49 20 RT	SHRUB	10	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	12	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	11	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
166+78 85	166+87 06	51 35 RT	SHRUB	4	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
167+00 94	359+19 28	61 81 RT	SHRUB	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		35 75 LT	SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
357+88 30	358+13 10	36 77 RT	SHRUB	10	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		36 07 RT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	6	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
358+72 51	358+82 94	55 08 RT	SHRUB	11	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		51 76 RT						
359+24 95	169+47 40	42 25 RT	SHRUB	11	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		50 03 RT	SHRUB	13	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	26	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
360+62 56	160+55 67	51 27 RT	SHRUB	6	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		51 35 LT	GRASS	20	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	23	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
173+07 81	173+49 19	51 77 LT	GRASS	7	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		67 74 LT	SHRUB	24	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
173+61 19	175+00 12	67 98 LT	SHRUB	16	ARROTSWOOD POTENTILLA	POTENTILLA FRUITICOSA 'ARROTSWOOD'	3 GALLON	POT
		52 83 LT	GRASS	40	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	27	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
300+20 09	174+62 56	20 11 RT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50 04 RT	SHRUB	13	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
176+69 27	X	51 89 LT	SHRUB	4	LITTLE PRINCESS SPIREA	SPIRAEA JAPONICA 'LITTLE PRINCESS'	3 GALLON	POT
		59 05 LT						
176+78 66	176+19 13	54 07 LT	GRASS	28	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		68 57 LT	SHRUB	10	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			SHRUB	17	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	8	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
177+01 90	300+30 27	47 07 RT	SHRUB	18	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
		26 52 RT	GRASS	43	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	19	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
178+22 22	400+71 85	51 12 LT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		36 68 LT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
399+38 99	180+14 41	18 37 RT	SHRUB	15	ALPINE SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
		46 94 RT	SHRUB	14	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	23	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
400+70 32	179+46 05	36 17 RT	SHRUB	5	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		51 26 LT	SHRUB	5	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
179+70 63	160+17 81	47 70 LT	SHRUB	5	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	6	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			GRASS	8	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
180+24 06	180+74 47	46 94 RT	GRASS	7	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	14	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
180+46 50	180+50 73	47 52 LT	SHRUB	6	GOLDFINGER POTENTILLA	POTENTILLA FRUTICOSA 'GOLDFINGER'	3 GALLON	POT
			SHRUB	5	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			GRASS	8	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
180+04 69	181+77 05	46 75 RT	SHRUB	12	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	12	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
181+31 04	181+60 07	46 80 LT	GRASS	17	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		46 18 LT	SHRUB	7	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
181+71 05	181+79 73	47 16 LT	GRASS	4	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
181+79 61	409+18 34	48 41 RT	GRASS	17	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		35 42 LT	SHRUB	34	LITTLE PRINCESS SPIREA	SPIRAEA JAPONICA 'LITTLE PRINCESS'	3 GALLON	POT
			SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
409+17 84	183+38 21	38 22 RT	SHRUB	9	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		46 41 RT	GRASS	16	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	35	LITTLE PRINCESS SPIREA	SPIRAEA JAPONICA 'LITTLE PRINCESS'	3 GALLON	POT
			SHRUB	18	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
410+69 96	183+08 92	37 60 RT	SHRUB	4	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
		51 33 LT	GRASS	12	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	8	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
411+56 26	411+70 54	31 00 LT	GRASS	5	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		37 72 LT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
183+40 27	184+17 37	47 04 LT	GRASS	29	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
183+46 22	184+78 00	47 21 RT	SHRUB	7	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	8	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	27	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	8	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
184+39 69	185+18 84	47 25 RT	SHRUB	8	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
185+20 80	185+27 71	46 98 LT	SHRUB	4	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
420+51 15	420+67 91	33 27 LT	SHRUB	6	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
		32 33 LT	SHRUB	5	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
185+16 24	186+85 97	48 38 LT	SHRUB	5	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
		46 16 LT	SHRUB	4	ABBOTSWOOD POTENTILLA	POTENTILLA FRUTICOSA 'ABBOTSWOOD'	3 GALLON	POT
			GRASS	10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
187+03 75	187+08 60	46 61 LT	SHRUB	7	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
		53 66 LT						
187+62 11	188+38 23	50 00 LT	GRASS	11	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		47 01 LT	SHRUB	19	LITTLE PRINCESS SPIREA			
			SHRUB	29	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
188+30 72	439+29 65	51 60 RT	GRASS	22	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		39 90 LT					1 GALLON	POT
430+50 00	431+71 08	32 95 RT	SHRUB	7	GOLDFINGER POTENTILLA	POTENTILLA FRUTICOSA 'GOLDFINGER'	3 GALLON	POT
			GRASS	17	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	24	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT

STARTING STATION POINT	ENDING STATION POINT	OFFSET	ITEM	QUANTITY	COMMON NAME	LATIN NAME	SIZE	ROOT
439+26 52	189+76 81	38 99 RT	GRASS	18	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	LANDSCAPE MISCELLANEOUS QUANTITIES

SHEET _____ E

FILE NAME : P:\12211 - BELKNAP DESIGN DEVELOPMENT\B44-12211 CD LINEWORK BELKNAP STREET.DWG PLOT DATE : 10/20/2016 5:05 PM PLOT BY : SAS+ASSOCIATES PLOT NAME : _____ PLOT SCALE : ********

LANDSCAPE - PLANTING BED STATIONING

		50.73 RT	SHRUB	6	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	22	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
189+69.97	190+29.86	50.00 LT	GRASS	15	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		47.01 LT	SHRUB	11	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
190+58.39	190+70.60	47.71 LT	SHRUB	3	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		56.31 LT	SHRUB	3	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			SHRUB	6	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
190+78.23	191+32.54	51.13 LT	SHRUB	8	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		56.40 LT	SHRUB	3	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	12	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
450+71.52	451+73.22	33.01 LT	SHRUB	10	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	10	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	20	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
192+20.91	192+39.57	51.20 RT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		46.70 RT	SHRUB	8	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
192+35.30	193+18.08	47.13 LT	SHRUB	11	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
			SHRUB	11	ABBOTSWOOD POTENTILLA	POTENTILLA FRUITICOSA 'ABBOTSWOOD'	3 GALLON	POT
			GRASS	11	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
192+77.57	192+96.57	51.20 RT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		46.70 RT	SHRUB	8	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
193+34.30	193+53.62	51.20 RT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		46.70 RT	SHRUB	8	VALLEY CUSHION MUGHO PINE			
194+82.78	195+69.78	64.41 RT	GRASS	10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	12	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	12	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
196+72.04	196+97.46	72.52 LT	SHRUB	5	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		50.80 LT						
196+77.10	198+21.70	48.22 RT	SHRUB	24	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
		66.10 RT	GRASS	10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	29	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
197+08.37	197+87.04	45.00 LT	SHRUB	15	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		55.17 LT	SHRUB	21	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	20	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
				18	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
198+32.63	198+89.70	48.22 RT	GRASS	7	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		66.10 RT	SHRUB	16	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	7	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
199+29.79	200+86.09	47.33 RT	GRASS	13	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	24	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	24	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
200+92.99	469+33.95	51.45 RT	SHRUB	16	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		37.20 LT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	13	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
201+98.30	203+19.41	46.06 LT	SHRUB	6	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		48.97 LT	SHRUB	6	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	28	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	13	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	25	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
202+01.56	202+26.45	47.13 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50.07 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
202+69.12	202+94.00	47.13 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50.07 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
203+23.50	203+48.50	47.13 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50.07 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
203+51.98	204+25.23	46.29 LT	GRASS	8	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	19	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
203+81.52	204+06.40	47.13 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50.07 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
204+39.36	204+73.35	47.13 RT	SHRUB	5	DAKOTA GOLDCHARM SPIREA	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
		61.19 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	3	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
204+82.59	205+18.52	58.88 RT	SHRUB	5	DAKOTA GOLDCHARM SPIREA	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
		46.93 RT	GRASS	15	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	3	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	12	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
480+63.49	205+20.75	36.55 RT	GRASS	6	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		54.87 LT	SHRUB	6	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
205+25.38	205+97.79	51.54 LT	SHRUB	9	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		51.27 LT	GRASS	25	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	12	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
205+60.39	205+85.26	47.04 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50.13 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
206+11.69	206+30.79	51.52 LT	SHRUB	6	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		46.58 LT	GRASS	10	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
206+14.05	206+38.93	47.04 RT	GRASS	14	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		50.13 RT	SHRUB	10	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
206+54.83	207+84.74	50.48 LT	SHRUB	6	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		50.37 LT	SHRUB	6	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	34	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	5	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	22	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
206+68.80	207+83.83	53.21 RT	SHRUB	13	ALPINE SPIREA	SPIRAEA JAPONICA 'ALPINA'	3 GALLON	POT
		49.76 RT	SHRUB	13	DAKOTA GOLDCHARM SPIREA	SPIRAEA JAPONICA 'MERTYANN'	3 GALLON	POT
			GRASS	32	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
			SHRUB	13	PRAIRIE PETITE LILAC	SYRINGA VULGARIS 'PRAIRIE PETITE'	3 GALLON	POT
			SHRUB	36	VALLEY CUSHION MUGHO PINE	PINUS MUGO 'VALLEY CUSHION'	3 GALLON	POT
207+64.74	499+21.29	53.13 RT	GRASS	12	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		38.18 LT						
207+67.87	500+76.12	46.80 LT	SHRUB	15	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	3 GALLON	POT
		28.68 LT	GRASS	21	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
499+37.08	208+87.84	33.52 RT	GRASS	18	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		42.89 RT						
208+72.46	208+89.57	70.52 LT	GRASS	7	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		65.89 LT						
208+99.61	209+07.92	57.91 LT	GRASS	8	FEATHER REED GRASS	CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	1 GALLON	POT
		39.90 LT						

LANDSCAPE - SITE AMENITY ITEMS

SITE AMENITIES										
CATEGORY 0080							CATEGORY 0050		CATEGORY 0090	CATEGORY 0100
SPV.0060.075	SPV.0060.076	SPV.0060.077	SPV.0060.079	SPV.0060.082	SPV.0090.047	SPV.0090.040	SPV.0090.042	SPV.0090.043	SPV.0105.072	SPV.0105.073
BENCH	TRASH RECEPTACLE**	BIKE RACK**	BOLLARD	FENCE COLUMN	ORNAMENTAL METAL FENCE	STEEL LANDSCAPE EDGING	CONCRETE WALL FOUNDATION	HILL AVENUE ENTRY SIGN	UWS ENTRY SIGN	DOUGLAS COUNTY COURTHOUSE SIGN
EACH	EACH	EACH	EACH	EACH	LF	LF	LF	LF	LS	LS
35	30	25	41	84	1513	3691.5	261	136.02	1	1

**FIELD LOCATE TRASH RECEPTACLES AND BIKE RACKS FOR APPROVAL

ENTRY COLUMN		
SPV.0060.082		
STATION	**LOCATION**	**COLUMNS**
135+30.00	55.65 LT	1
135+38.35	51.50 RT	1
135+73.51	55.65 LT	1
135+81.90	53.00 RT	1
136+25.65	54.00 RT	1
136+34.41	55.65 LT	1
136+63.22	55.65 LT	1
136+69.30	55.00 RT	1
206+62.20	46.83 LT	1
206+70.00	50.95 RT	1
207+12.20	46.83 LT	1
207+15.00	50.95 RT	1
207+60.00	50.95 RT	1
207+62.20	46.83 LT	1
Project Item Totals		14

STEEL LANDSCAPE EDGING				
SPV.0090.040				
STARTING STATION POINT	**ENDING STATION POINT**	**LF**	**OFFSET START**	**OFFSET END**
135+27.86	135+86.95	74.35	60.64 LT	82.17 LT
135+27.86	136+12.78	86.82	55.64 LT	59.23 LT
135+35.27	136+51.38	121.00	56.76 RT	67.01 RT
136+12.02	04+35.86	129.23	82.11 LT	50.71 LT
136+56.39	136+85.92	31.81	66.33 RT	65.27 RT
02+38.89	02+62.53	27.10	45.40 LT	57.87 LT
144+72.42	144+86.63	14.05	87.99 RT	
99+16.39	145+79.06	43.17	35.01 RT	53.62 RT
146+06.16	147+06.18	99.57	50.00 RT	
298+22.80	299+21.05	98.27	34.82 RT	34.85 RT
298+22.80	149+39.96	131.34	39.42 RT	54.53 RT
149+77.36	152+26.92	248.89	52.64 RT	
330+69.01	157+23.01	34.26	49.91 RT	50.00 LT
163+19.41	163+23.88	13.59	49.59 LT	
165+87.74	166+76.64	89.22	50.65 RT	
359+19.77	169+47.38	152.20	44.18 RT	52.53 RT
173+06.20		22.48	50.02 LT	72.49 LT
389+21.32	174+63.66	50.35	21.50 RT	50.00 RT
173+63.69	175+62.74	218.16	72.69 LT	54.22 LT
176+60.79	177+31.93	72.02	49.00 RT	58.73 RT
176+77.14		22.60	50.00 LT	72.59 LT
177+84.33	399+34.84	69.71	59.52 RT	24.00 RT
178+21.69	400+74.36	60.17	73.69 LT	39.87 LT
399+37.76	179+16.72	35.40	16.45 RT	50.44 RT
180+21.71	180+63.06	45.42	52.24 RT	55.63 RT
180+93.43	409+17.03	136.21	48.72 RT	36.21 LT
409+15.33	184+80.13	206.89	36.54 RT	49.00 RT
184+96.13	185+21.49	29.33	49.00 RT	45.00 RT
187+01.73	187+10.30	25.29	45.00 LT	
188+27.62	439+27.57	70.75	50.00 RT	37.52 LT
194+79.09	195+72.55	192.37	64.56 RT	
196+69.04	196+78.04	65.27	74.94 LT	45.80 LT
197+07.37	197+48.62	42.64	50.60 LT	54.88 LT
198+72.48	198+91.49	19.00	50.00 RT	
199+27.49	199+46.49	19.00	50.00 RT	
201+96.82	203+21.24	156.11	50.00 LT	
201+99.72	202+27.41	45.58	45.00 RT	
202+67.19	202+94.89	45.58	45.00 RT	
203+21.24	203+50.00	45.58	45.00 RT	
203+79.60	204+07.29	45.58	45.00 RT	
204+37.49	204+55.26	29.24	45.00 RT	63.67 RT
205+01.59	205+22.91	29.85	63.32 RT	45.00 RT
205+58.45	205+86.15	45.58	45.00 RT	
205+68.31	206+01.62	33.32	52.50 LT	
206+09.79	206+30.79	21.08	52.50 LT	
206+12.13	206+86.15	45.58	45.00 RT	
206+50.36	20+56.71	6.35	52.00 LT	
206+66.91	499+17.88	138.99	45.00 RT	43.74 LT
207+35.80	500+78.24	93.23	52.01 LT	24.96 LT
499+33.81	208+90.63	58.95	31.74 RT	39.53 RT
500+78.63	208+90.48	24.95	17.60 RT	64.09 LT
208+97.08	209+10.48	28.02	58.38 LT	38.42 LT
PROJECT ITEM TOTAL		3691.50		

DOUGLAS COUNTY COURTHOUSE SIGN		
*QUANTITIES PROVIDED ARE FOR INFORMATION ONLY; ITEM TO BE BID LUMP SUM		
DESCRIPTION	**QUANTITY**	**UNIT**
EXCAVATION COMMON	160	CY
Concrete Sign Wall, Douglas County, (above ground)	1	LS
Concrete Wall Foundation	32	LF
TEXTURED CONCRETE CAP	40	LF
SIGN LETTERS, Douglas County	1	LS
SIGN LIGHTING, Douglas County (INCLUDES WIRING)	1	LS

UWS CAMPUS ENTRY SIGN		
*QUANTITIES PROVIDED ARE FOR INFORMATION ONLY; ITEM TO BE BID LUMP SUM		
DESCRIPTION	**QUANTITY**	**UNIT**
EXCAVATION COMMON	320	CY
EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL**	191	TON
SIGN FOOTINGS	2	EA
BRICK/ MASONRY FOR SIGN & PILLARS	2	LS
SIGN LETTERS, UWS	2	LS
SIGN LIGHTING, UWS (INCLUDES WIRING)	2	LS
BUZZ EMBLEM (1 PER COLUMN)	4	EA
Concrete Sign Wall, UWS (Includes 7 items above in Sign Package)	2	EA

LANDSCAPE - MULCH AND PLANTING MIX QUANTITIES

PLANTING MIXTURE

SPV.0035.002

STARTING STATION POINT	ENDING STATION POINT	OFFSET	SQ. FT.	QUANTITY	UNIT
135+34.8	136+08.28	58.18 LT	1142	14.1	CY
135+38.83	136+83.42	57.87 RT	1205	14.9	CY
136+08.73	137+01.18	81.03 LT	576	7.1	CY
136+97.14	2+40.97	72.96 RT	147	1.8	CY
138+19.53	138+54.80	46.37 LT	178	2.2	CY
138+85.04	139+62.57	46.97 LT	592	7.3	CY
140+05.06	140+14.63	56.81 LT	160	2.0	CY
143+44.40	144+10.90	57.2 RT	430	5.3	CY
144+23.70	99+14.02	55.14 RT	1015	12.5	CY
144+39.11	144+49.28	53.17 LT	103	1.3	CY
144+60.02	100+99.58	53.18 LT	592	7.3	CY
145+58.80	148+29.35	59.20 LT	1460	18.0	CY
99+17.86	146+05.03	36.64 RT	310	3.8	CY
146+07.98	147+05.41	46.97 RT	598	7.4	CY
147+18.11	147+92.27	95.14 RT	542	6.7	CY
148+14.58	148+52.88	51.53 RT	275	3.4	CY
299+24.14	299+42.90	38.46 LT	93	1.1	CY
298+24.38	149+38.12	36.72 RT	557	6.9	CY
149+47.58	149+54.79	55.25 RT	105	1.3	CY
149+84.04	152+23.81	51.30 RT	790	9.7	CY
153+01.05	153+66.61	52.03 RT	297	3.7	CY
154+76.47	155+11.63	57.41 LT	401	4.9	CY
155+22.29	155+30.44	53.66 LT	132	1.6	CY
155+47.11	155+77.79	47.60 LT	328	4.0	CY
155+95.40	330+91.82	47.93 LT	495	6.1	CY
328+73.53	329+15.92	45.79 LT	309	3.8	CY
156+98.86	157+17.35	65.12 LT	305	3.8	CY
328+82.14	157+50.46	45.95 RT	572	7.1	CY
158+06.29	158+20.02	55.60 RT	129	1.6	CY
158+86.14	159+33.67	53.66 RT	280	3.5	CY
159+63.75	338+32.10	51.61 RT	529	6.5	CY
340+66.70	161+03.44	36.16 RT	180	2.2	CY
338+63.28	339+36.31	39.35 RT	308	3.8	CY
161+11.94	161+21.10	52.22 RT	103	1.3	CY
162+46.33	162+63.27	52.50 RT	95	1.2	CY
162+92.08	163+03.42	52.50 RT	46	0.6	CY
163+20.99	163+66.41	51.32 LT	362	4.5	CY
165+14.46	165+20.17	51.50 RT	35	0.4	CY
165+50.21	165+61.45	51.50 RT	45	0.6	CY
165+89.66	166+74.03	49.20 RT	200	2.5	CY
166+78.85	166+87.06	51.35 RT	36	0.4	CY
167+00.94	359+19.28	51.81 RT	190	2.3	CY
357+88.30	358+13.10	36.77 RT	1190	14.7	CY
358+72.51	358+82.94	55.68 RT	160	2.0	CY
359+24.95	169+47.40	42.25 RT	402	5.0	CY
360+82.56	168+55.87	51.27 RT	451	5.6	CY
173+07.81	173+49.19	51.77 LT	314	3.9	CY
173+61.19	175+60.12	67.98 LT	871	10.7	CY
389+23.09	174+62.56	23.11 RT	193	2.4	CY
175+69.27	X	51.89 LT	33	0.4	CY
176+78.88	178+19.13	54.07 LT	768	9.5	CY
177+01.90	399+39.27	47.07 RT	766	9.4	CY
178+22.22	400+71.85	51.12 LT	174	2.1	CY
399+38.99	180+14.41	18.37 RT	581	7.2	CY
400+70.32	179+46.05	36.17 RT	155	1.9	CY
179+70.63	180+17.81	47.70 LT	253	3.1	CY
180+24.06	180+74.47	46.94 RT	198	2.4	CY
180+24.06	180+61.64	53.72 RT	154	1.9	CY
180+46.50	180+93.72	47.52 LT	248	3.1	CY
180+94.69	181+77.05	46.75 RT	294	3.6	CY
181+31.04	181+60.07	46.80 LT	288	3.6	CY
181+71.05	181+79.73	47.16 LT	58	0.7	CY
181+79.61	409+18.34	48.41 RT	655	8.1	CY
409+17.84	183+36.21	38.22 RT	694	8.6	CY
410+65.96	183+06.92	37.60 RT	222	2.7	CY
411+56.28	411+70.54	31.09 LT	162	2.0	CY
183+40.27	184+17.37	47.04 LT	342	4.2	CY
183+46.22	184+78.00	47.21 RT	543	6.7	CY
184+99.69	185+18.84	47.25 RT	102	1.3	CY
185+20.80	185+27.71	46.58 LT	38	0.5	CY
420+51.15	420+67.91	33.27 LT	90	1.1	CY
186+16.24	186+85.97	48.38 LT	209	2.6	CY
187+03.75	187+08.50	46.51 LT	79	1.0	CY
187+62.11	188+38.23	50.00 LT	584	7.2	CY
188+30.72	439+29.65	51.60 RT	202	2.5	CY
431+71.68	189+35.93	32.95 RT	808	10.0	CY
439+26.52	189+76.81	38.99 RT	450	5.6	CY
189+69.97	190+29.86	50.00 LT	382	4.7	CY
190+58.39	190+70.60	47.71 LT	397	4.9	CY
450+71.52	451+73.22	33.01 LT	632	7.8	CY
190+78.23	191+32.54	51.13 LT	545	6.7	CY
192+20.91	192+39.57	51.20 RT	181	2.2	CY
192+35.30	193+18.08	47.13 LT	431	5.3	CY
192+77.57	192+96.57	51.20 RT	181	2.2	CY
193+34.30	193+53.62	51.20 RT	181	2.2	CY
194+82.78	195+69.78	64.41 RT	436	5.4	CY
196+72.04	196+97.46	72.52 LT	193	2.4	CY
196+77.10	198+21.70	48.22 RT	833	10.3	CY
197+08.37	197+87.04	45.00 LT	706	8.7	CY
198+32.63	198+89.70	48.22 RT	392	4.8	CY
199+29.79	200+86.05	47.33 RT	803	9.9	CY
200+92.99	469+33.95	51.45 RT	376	4.6	CY
201+98.30	203+19.41	46.06 LT	780	9.6	CY
202+01.56	202+26.45	47.13 RT	247	3.0	CY
202+69.12	202+94.00	47.13 RT	247	3.0	CY
203+23.50	203+48.50	47.13 RT	247	3.0	CY
203+51.98	204+25.23	46.29 LT	263	3.2	CY
203+81.52	204+06.40	47.13 RT	247	3.0	CY
204+39.36	204+73.35	47.13 RT	505	6.2	CY
204+82.59	205+18.52	58.88 RT	531	6.5	CY
480+63.49	205+20.75	36.55 RT	115	1.4	CY
205+25.38	205+97.79	51.54 LT	474	5.8	CY
205+60.39	205+85.26	47.04 RT	247	3.0	CY
206+11.69	206+30.79	51.52 LT	161	2.0	CY
206+14.05	206+38.93	47.04 RT	247	3.0	CY
206+54.83	207+64.74	50.48 LT	770	9.5	CY
206+68.80	207+63.83	53.21 RT	1018	12.6	CY
207+64.74	499+21.29	53.13 RT	175	2.2	CY
207+67.87	500+76.12	46.80 LT	459	5.7	CY
499+37.08	208+87.84	33.52 RT	286	3.5	CY
208+72.46	208+89.57	70.52 LT	79	1.0	CY
208+99.61	209+07.92	57.91 LT	80	1.0	CY
PROJECT QUANTITIES TOTAL				528.2	

MULCH AT PLANTING LOCATIONS

STARTING STATION POINT	ENDING STATION POINT	OFFSET	SQ. FT.	QUANTITY	UNIT
135+34.8	136+08.28	58.18 LT	1142	14.1	CY
135+38.83	136+83.42	57.87 RT	1205	14.9	CY
136+08.73	137+01.18	81.03 LT	576	7.1	CY
136+97.14	2+40.97	72.96 RT	147	1.8	CY
138+19.53	138+54.80	46.37 LT	178	2.2	CY
138+85.04	139+62.57	46.97 LT	592	7.3	CY
140+05.06	140+14.63	56.81 LT	160	2.0	CY
143+44.40	144+10.90	57.2 RT	430	5.3	CY
144+23.70	99+14.02	55.14 RT	1015	12.5	CY
144+39.11	144+49.28	53.17 LT	103	1.3	CY
144+60.02	100+99.58	53.18 LT	592	7.3	CY
145+58.80	148+29.35	59.20 LT	1460	18.0	CY
99+17.86	146+05.03	36.64 RT	310	3.8	CY
146+07.98	147+05.41	46.97 RT	598	7.4	CY
147+18.11	147+92.27	95.14 RT	542	6.7	CY
148+14.58	148+52.88	51.53 RT	275	3.4	CY
299+24.14	299+42.90	38.46 LT	93	1.1	CY
298+24.38	149+38.12	36.72 RT	557	6.9	CY
149+47.58	149+54.79	55.25 RT	105	1.3	CY
149+84.04	152+23.81	51.30 RT	790	9.7	CY
153+01.05	153+66.61	52.03 RT	297	3.7	CY
154+76.47	155+11.63	57.41 LT	401	4.9	CY
155+22.29	155+30.44	53.66 LT	132	1.6	CY
155+47.11	155+77.79	47.60 LT	328	4.0	CY
155+95.40	330+91.82	47.93 LT	495	6.1	CY
328+73.53	329+15.92	45.79 LT	309	3.8	CY
156+98.86	157+17.35	65.12 LT	305	3.8	CY
328+82.14	157+50.46	45.95 RT	572	7.1	CY
158+06.29	158+20.02	55.60 RT	129	1.6	CY
158+86.14	159+33.67	53.66 RT	280	3.5	CY
159+63.75	338+32.10	51.61 RT	529	6.5	CY
340+66.70	161+03.44	36.16 RT	180	2.2	CY
338+63.28	339+36.31	39.35 RT	308	3.8	CY
161+11.94	161+21.10	52.22 RT	103	1.3	CY
162+46.33	162+63.27	52.50 RT	95	1.2	CY
162+92.08	163+03.42	52.50 RT	46	0.6	CY
163+20.99	163+66.41	51.32 LT	362	4.5	CY
165+14.46	165+20.17	51.50 RT	35	0.4	CY
165+50.21	165+61.45	51.50 RT	45	0.6	CY
165+89.66	166+74.03	49.20 RT	200	2.5	CY
166+78.85	166+87.06	51.35 RT	36	0.4	CY
167+00.94	359+19.28	51.81 RT	190	2.3	CY
357+88.30	358+13.10	36.77 RT	1190	14.7	CY
358+72.51	358+82.94	55.68 RT	160	2.0	CY
359+24.95	169+47.40	42.25 RT	402	5.0	CY
360+82.56	168+55.87	51.27 RT	451	5.6	CY
173+07.81	173+49.19	51.77 LT	314	3.9	CY
173+61.19	175+60.12	67.98 LT	871	10.7	CY
389+23.09	174+62.56	23.11 RT	193	2.4	CY
175+69.27	X	51.89 LT	33	0.4	CY
176+78.88	178+19.13	54.07 LT	768	9.5	CY
177+01.90	399+39.27	47.07 RT	766	9.4	CY
178+22.22	400+71.85	51.12 LT	174	2.1	CY
399+38.99	180+14.41	18.37 RT	581	7.2	CY
400+70.32	179+46.05	36.17 RT	155	1.9	CY
179+70.63	180+17.81	47.70 LT	253	3.1	CY
180+24.06	180+74.47	46.94 RT	198	2.4	CY
180+24.06	180+61.64	53.72 RT	154	1.9	CY
180+46.50	180+93.72	47.52 LT	248	3.1	CY
180+94.69	181+77.05	46.75 RT	294	3.6	CY
181+31.04	181+60.07	46.80 LT	288	3.6	CY
181+71.05	181+79.73	47.16 LT	58	0.7	CY
181+79.61	409+18.34	48.41 RT	655	8.1	CY
409+17.84	183+36.21	38.22 RT	694	8.6	CY
410+65.96	183+06.92	37.60 RT	222	2.7	CY
411+56.28	411+70.54	31.09 LT	162	2.0	CY
183+40.27	184+17.37	47.04 LT	342	4.2	CY
183+46.22	184+78.00	47.21 RT	543	6.7	CY
184+99.69	185+18.84	47.25 RT	102	1.3	CY
185+20.80	185+27.71	46.58 LT	38	0.5	CY
420+51.15	420+67.91	33.27 LT	90	1.1	CY
186+16.24	186+85.97	48.38 LT	209	2.6	CY
187+03.75	187+08.50	46.51 LT	79	1.0	CY
187+62.11	188+38.23	50.00 LT	584	7.2	CY
188+30.72	439+29.65	51.60 RT	202	2.5	CY
431+71.68	189+35.93	32.95 RT	808	10.0	CY
439+26.52	189+76.81	38.99 RT	450	5.6	CY
189+69.97	190+29.86	50.00 LT	382	4.7	CY
190+58.39	190+70.60	47.71 LT	397	4.9	CY
450+71.52	451+73.22	33.01 LT	632	7.8	CY
190+78.23	191+32.54	51.13 LT	545	6.7	CY
192+20.91	192+39.57	51.20 RT	181	2.2	CY
192+35.30	193+18.08	47.13 LT	431	5.3	CY
192+77.57	192+96.57	51.20 RT	181	2.2	CY
193+34.30	193+53.62	51.20 RT	181	2.2	CY
194+82.78	195+69.78	64.41 RT	436	5.4	CY
196+72.04	196+97.46	72.52 LT	193	2.4	CY
196+77.10	198+21.70	48.22 RT	833	10.3	CY
197+08.37	197+87.04	45.00 LT	706	8.7	CY
198+32.63	198+89.70	48.22 RT	392	4.8	CY
199+29.79	200+86.05	47.33 RT	803	9.9	CY
200+92.99	469+33.95	51.45 RT	376	4.6	CY
201+98.30	203+19.41	46.06 LT	780	9.6	CY
202+01.56	202+26.45	47.13 RT	247	3.0	CY
202+69.12	202+94.00	47.13 RT	247	3.0	CY
203+23.50	203+48.50	47.13 RT	247	3.0	CY
203+51.98	204+25.23	46.29 LT	263	3.2	CY
203+81.52	204+06.40	47.13 RT	247	3.0	CY
204+39.36	204+73.35	47.13 RT	505	6.2	CY
204+82.59	205+18.52	58.88 RT	531	6.5	CY
480+63.49	205+20.75	36.55 RT	115	1.4	CY
205+25.38	205+97.79	51.54 LT	474	5.8	CY
205+60.39	205+85.26	47.04 RT	247	3.0	CY
206+11.69	206+30.79	51.52 LT	161	2.0	CY
206+14.05	206+38.93	47.04 RT	247	3.0	CY
206+54.83	207+64.74	50.48 LT	770	9.5	CY
206+68.80	207+63.83	53.21 RT	1018	12.6	CY
207+64.74	499+21.29	53.13 RT	175	2.2	CY
207+67.87	500+76.12	46.80 LT	459	5.7	CY
499+37.08	208+87.84	33.52 RT	286	3.5	CY
208+72.46	208+89.57	70.52 LT	79	1.0	CY
208+99.61	209+07.92	57.91 LT	80	1.0	CY
PROJECT QUANTITIES TOTAL				528.2	

ORNAMENTAL METAL FENCING AND WALL QUANTITIES

SPV.0090.047

ORNAMENTAL METAL FENCE

STARTING STATION POINT	ENDING STATION POINT	LF	OFFSET START	OFFSET END
135+32.43	136+01.00	68.57	58.10LT	
135+40.72	136+51.68	110.96	54.30RT	57.20RT
136+57.00	136+86.69	29.69	57.32RT	57.51RT
136+36.90	136+60.71	23.81	57.95LT	
136+65.71	4+33.63	51.48	57.95LT	57.80LT
0+65.05	2+63.35	198.30	36.96LT	54.37LT
144+37.09	144+51.50	14.41	55.65LT	
144+25.93	144+70.29	44.36	51.18RT	
144+70.29	144+84.70	14.41	64.05RT	
99+35.98	99+15.45	20.53	37.37LT	
99+17.15	99+38.12	20.97	38.71RT	
145+60.00	145+69.71	9.71	62.16RT	53.71RT
145+69.71	146+03.26	33.55	53.71RT	
148+17.80	148+51.76	33.96	53.37RT	
148+51.76	299+43.50	3.42	53.37RT	38.49LT
299+43.50	299+23.42	20.08	38.49LT	
153+02.90	153+68.30	65.40	50.63RT	
328+82.27	329+41.65	59.38	43.15RT	
329+41.65	157+02.11	13.85	43.15RT	50.65RT
157+02.11	157+51.61	49.50	50.65RT	
166+98.49	167+23.47	24.98	51.61RT	
167+23.47	359+36.48	17.02	51.61RT	35.90LT
359+36.48	359+17.90	18.58	35.90LT	
359+23.81	359+36.83	13.02	42.41 RT	
359+36.83	168+26.41	15.03	42.41 RT	51.46 RT
168+26.41	168+45.95	19.54	51.46 RT	
370+63.85	370+85.79	21.94	49.92RT	
370+63.85	168+35.87	13.54	49.92RT	50.00LT
168+35.87	168+58.80	22.93	50.00LT	
389+24.86	389+39.85	14.99	24.21RT	
389+39.85	174+50.57	10.48	24.21RT	52.53RT
174+50.57	174+63.03	12.46	52.53RT	
178+22.66	178+39.69	17.03	52.23LT	
178+39.69	400+60.40	8.82	52.23LT	37.35LT
400+60.40	400+71.12	10.72	37.35LT	
178+29.44	178+44.56	15.12	46.19RT	61.49RT
178+91.55	179+06.82	15.27	61.29RT	45.97RT
400+63.74	400+70.98	7.24	36.47RT	
400+63.74	179+31.03	13.73	36.47LT	52.45LT
179+31.03	179+45.44	14.41	52.45LT	
181+48.65	181+59.26	10.61	46.22LT	
188+29.23	188+60.65	31.42	50.41RT	
188+60.65	439+43.46	9.06	50.41RT	38.73LT
439+43.46	439+28.43	15.03	38.73LT	
189+75.51	189+60.65	14.86	50.91RT	
189+60.65	439+42.67	7.88	50.91RT	38.73RT
439+42.67	439+31.10	11.57	37.89RT	
191+18.66	191+52.70	34.04	48.25RT	
206+63.70	207+60.70	97	48.26LT	
206+71.50	207+58.50	87	51.68RT	

SPV.0090.042

CONCRETE WALL FOUNDATION

LF
261

SPV.0090.043

HILL AVENUE SCREEN WALL

STARTING STATION POINT	ENDING STATION POINT	LF	OFFSET START	OFFSET END
207+66.04	207+88.38	22.34	47.00RT	68.35RT
207+69.95	208+22.11	52.16	45.47LT	71.75LT
208+53.46	208+84.33	30.87	66.38RT	40.78RT
208+70.62	208+89.97	19.35	67.81LT	64.10LT
208+95.37	209+06.67	11.3	56.77LT	42.11LT

SPV.0105.072; *QUANTITIES PROVIDED ARE FOR INFORMATION ONLY; ITEM TO BE BID LUMP SUM

UWS ENTRY SIGN

STARTING STATION POINT	ENDING STATION POINT	LF	OFFSET START	OFFSET END
181+88.63	182+15.81	31	47.34 RT	71.71 RT
182+88.52	183+16.93	31	72.51 RT	48.54 RT

SPV.0105.073; *QUANTITIES PROVIDED ARE FOR INFORMATION ONLY; ITEM TO BE BID LUMP SUM

DOUGLAS COUNTY COURTHOUSE SIGN

STARTING STATION POINT	ENDING STATION POINT	LF	OFFSET START	OFFSET END
156+97.82	157+21.46	32	66.18 LT	51.01 LT

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.01

THAT PART OF LOTS 11 AND 12, BLOCK 144, WEST SUPERIOR 4TH DIVISION ALSO BEING PART OF PARCEL 2 OF DOC. 864988, AND THE SW-SE OF SECTION 15, THAT PART OF LOTS 11 AND 12, BLOCK 163, AND THAT PART OF LOT 1, BLOCK 164, WEST SUPERIOR 6TH DIVISION AND THE NW-NE OF SECTION 22 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:40P ON 01-04-2016 AS DOCUMENT # 878591 AND FILED IN Vol 2 pg 1
Cathryn M Salus
Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.01
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE		ACCESS POINT	AP
SECTION LINE		ACCESS RIGHTS	AR
QUARTER LINE		ACRES	AC.
SIXTEENTH LINE		AND OTHERS	ET.AL.
PROPOSED REFERENCE LINE		CENTERLINE	C/L
PROPOSED R/W LINE		CERTIFIED SURVEY MAP	CSM
EXISTING H.E. LINE		DOCUMENT	DOC.
PROPERTY LINE		HIGHWAY EASEMENT	H.E.
EASEMENT LINE		LAND CONTRACT	LC
CORPORATE LIMITS		MONUMENT	MON.
EXISTING CENTERLINE		PAGE	P.
LOT & TIE LINES		PROPERTY LINE	PL
UTILITIES (TELEPHONE,GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)	PERMANENT LIMITED EASEMENT	PLE
FIRE HYDRANT		RECORDED AS	(100')
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)		REFERENCE LINE	R/L
NO ACCESS (BY ACQUISITION)		REMAINING	REM.
NO ACCESS (BY STATUTORY AUTHORITY)		RIGHT-OF-WAY	R/W
FEE (HATCH VARIES)		SECTION	SEC.
TEMPORARY LIMITED EASEMENT		SQUARE FEET	SQ.FT.
		STATION	STA.
		TEMPORARY LIMITED EASEMENT	TLE
		VOLUME	V.

CURVE DATA	
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

		NON COMPENSABLE	COMPENSABLE
R/W BOUNDARY POINT	40000	POWER POLE	
TLE POINT	65000	TELEPHONE POLE	
PARCEL NUMBER	8	TELEPHONE PEDESTAL	
SIGN NUMBER (OFF PREMISE)	21-1	GUY POLE	N/A
BUILDING		SECTION CORNER	17 / 26,26 / 35,35 / 18
FOUND IRON PIPE/PIN	LS (1" UNLESS NOTED)	(FOR ILLUSTRATIVE PURPOSES ONLY. NO MONUMENT SET IN FIELD)	
R/W MONUMENT	○ ●		
R/W STANDARD	△ ▲ (SET)		
SIGN	SIGN SIGN		

ALIGNMENT DATA
USH 2/BELKNAP STREET

PISTA 133+81.27
Y = 305433.19
X = 146271.44
PISTA 156+47.14
Y = 305416.26
X = 148537.24

ALIGNMENT DATA
BANKS AVENUE

POB STA 1+66.60
Y = 305097.03
X = 146639.41
PISTA 5+00.00
Y = 305430.43
X = 146641.74
POE STA 9+34.49
Y = 305864.90
X = 146644.97

ALIGNMENT DATA
TOWER AVENUE N

POB STA 0+13.34
Y = 305427.55
X = 147027.07
POE STA 13+33.29
Y = 306747.46
X = 147036.87

ALIGNMENT DATA
TOWER AVENUE S

POB STA 685+54.23
Y = 305177.55
X = 147025.32
POE STA 688+04.23
Y = 305427.55
X = 147027.07

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65000	138+11.92	-50.00
65001	135+24.86	-90.50
65002	136+78.23	-92.16
65003	136+91.57	-124.33
65004	138+11.92	-60.00
65007	140+13.11	-60.00
65024	140+69.37	-50.00
65025	140+19.66	-53.20
65026	140+19.76	-50.00
65074	140+69.54	-53.35
65077	140+83.30	-66.81
65079	140+86.92	-66.80
65204	135+24.93	-63.46
65206	137+01.40	-121.78
67000	136+28.01	75.00
67001	136+41.87	83.19
67002	136+62.03	82.95
67010	137+86.62	75.61
67011	137+93.57	75.69
67016	137+93.58	72.22
67057	136+62.38	100.46
67087	137+14.46	99.77
67088	137+14.22	123.18
67128	137+16.64	123.16
67129	138+04.44	72.62
67133	138+04.44	61.83
67187	138+13.54	61.66
67188	138+13.78	56.71
67189	138+15.47	56.70
67190	138+15.44	50.00

TLE POINT TABLE - TOWER AVE N		
POINT	STATION	OFFSET
65024	0+63.34	-67.55
65074	0+66.69	-67.38
65077	0+80.15	-53.62
65079	0+80.14	-50.00

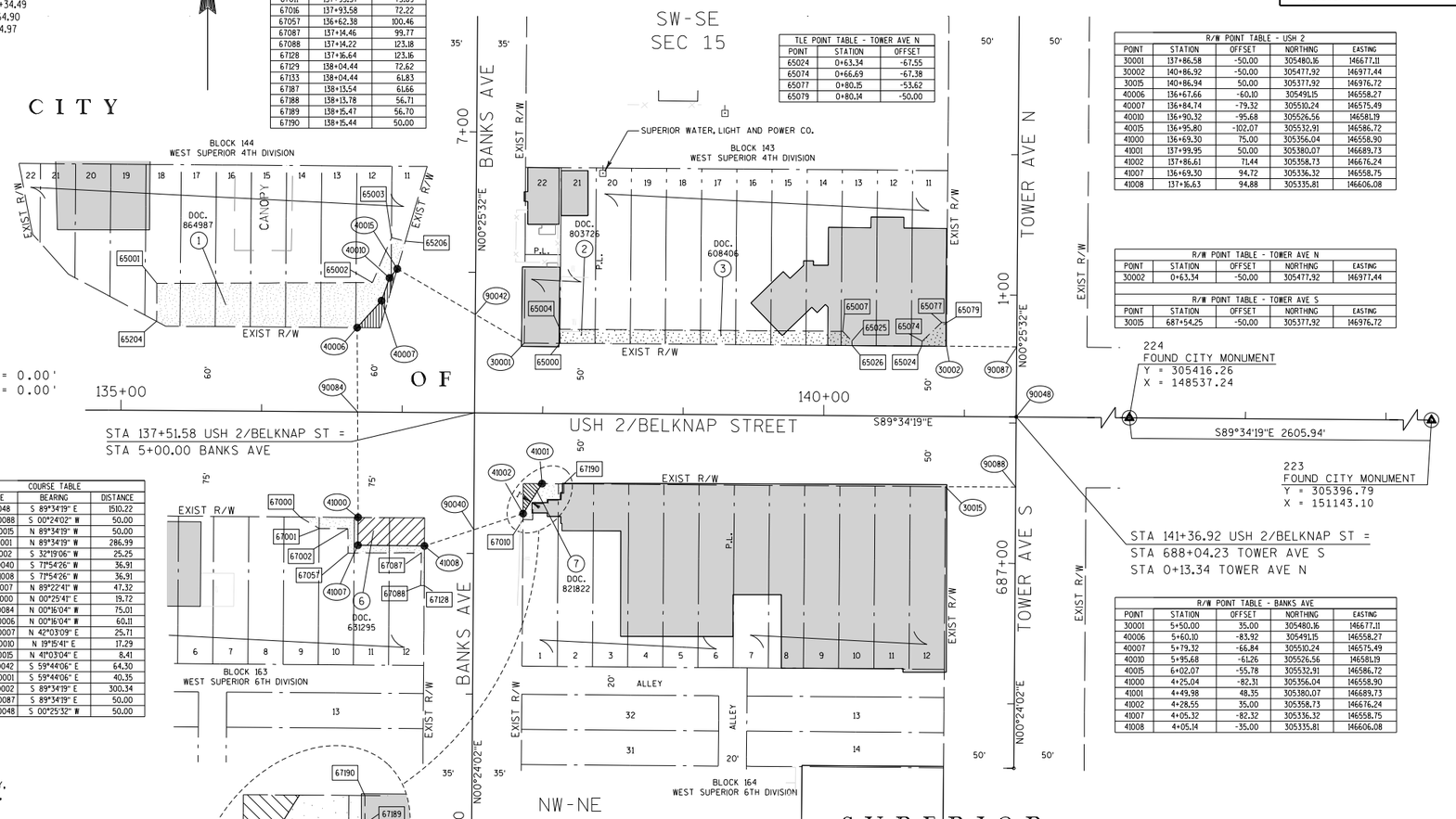
R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30001	137+86.58	-50.00	305480.16	146677.11
30002	140+86.92	-50.00	305477.92	146977.44
30015	140+86.94	50.00	305377.92	146976.72
40006	136+67.66	-60.10	305491.15	146558.27
40007	136+84.74	-79.32	305510.24	146575.49
40010	136+90.32	-95.68	305526.56	146581.19
40015	136+95.80	-102.07	305532.91	146586.72
41000	136+69.30	75.00	305356.04	146558.90
41001	137+99.95	50.00	305380.07	146689.73
41002	137+86.61	71.44	305358.73	146676.24
41007	136+69.30	94.72	305336.32	146558.75
41008	137+16.63	94.88	305335.81	146606.08

R/W POINT TABLE - TOWER AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
30002	0+63.34	-50.00	305477.92	146977.44

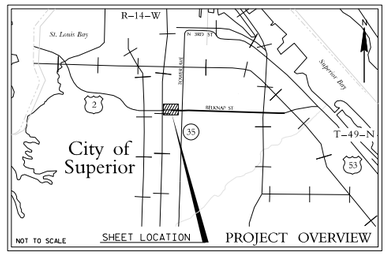
R/W POINT TABLE - TOWER AVE S				
POINT	STATION	OFFSET	NORTHING	EASTING
30015	687+54.25	-50.00	305377.92	146976.72

R/W POINT TABLE - BANKS AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30001	5+50.00	35.00	305480.16	146677.11
40006	5+60.10	-83.92	305491.15	146558.27
40007	5+79.32	-66.84	305510.24	146575.49
40010	5+95.68	-61.26	305526.56	146581.19
40015	6+02.07	-55.78	305532.91	146586.72
41000	4+25.04	-82.31	305356.04	146558.90
41001	4+49.98	48.35	305380.07	146689.73
41002	4+28.55	35.00	305358.73	146676.24
41007	4+05.32	-82.32	305336.32	146558.75
41008	4+05.14	-35.00	305335.81	146606.08

TLE POINT TABLE - BANKS AVE		
POINT	STATION	OFFSET
65000	5+50.00	60.34
65002	5+92.16	-73.35
65003	6+24.33	-60.00
65004	5+60.00	60.34
65206	6+21.78	-50.17
67010	4+24.37	35.00
67011	4+24.29	41.95
67016	4+35.87	42.00
67057	3+99.58	-89.25
67087	4+00.25	-37.17
67088	3+76.84	-37.42
67128	3+76.86	-35.00
67129	4+35.93	52.83
67133	4+38.14	52.83
67187	4+38.31	61.93
67188	4+43.26	62.17
67189	4+43.27	63.86
67190	4+49.97	63.84



ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'



COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90048	S 89°34'19" E	1510.22
90048-90088	S 00°24'02" W	50.00
90088-30015	N 89°34'19" W	50.00
30015-41001	N 89°34'19" W	286.99
41001-41002	S 32°19'06" W	25.25
41002-90040	S 71°54'26" W	36.91
90040-41008	S 71°54'26" W	36.91
41008-41007	N 89°22'41" W	47.32
41007-41000	N 00°25'41" E	19.72
41000-90084	N 00°16'04" W	75.01
90084-40006	N 00°16'04" W	60.11
40006-40007	N 42°13'09" E	25.71
40007-40010	N 19°15'41" E	17.29
40010-40015	N 41°03'04" E	8.41
40015-90042	S 59°44'06" E	64.30
90042-30001	S 59°44'06" E	40.35
30001-30002	S 89°34'19" E	300.34
30002-90087	S 89°34'19" E	50.00
90087-90048	S 00°25'32" W	50.00

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ.FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
1	CONVENIENCE STORE INVESTMENTS	FEE & TLE	278.98	0.00	278.98	5220.87
2	MARK C. BERQUIST	TLE	0.00	0.00	0.00	249.98
3	M&I FIRST NATIONAL BANK	TLE	0.00	0.00	0.00	2005.09
6	MINER'S INCORPORATED	FEE & TLE	936.99	0.00	936.99	703.35
7	DDM PROPERTIES, LLC	FEE & TLE	143.06	0.00	143.06	309.04

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/4/16
John T. Mueller

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/4/16
Todd Janigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.01.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 12/29/2015
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.02

THAT PART OF LOTS 11 AND 12, BLOCK 142, WEST SUPERIOR 4TH DIVISION AND THE SE-SE OF SECTION 15, AND THE NW-NE AND THE NE-NE OF SECTION 22 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:40P.M. ON 01-04-2016 AS DOCUMENT # 878592 AND FILED IN Vol 2 pg 2
Cathryn M Sallus Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.02
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER (8)
SIGN NUMBER (OFF PREMISE) (21-)
BUILDING
FOUND IRON PIPE/PIN LS (1" UNLESS NOTED) (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ● (SET)
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE	N/A	
SECTION CORNER		

ALIGNMENT DATA
USH 2/BELKNAP STREET

PISTA 133+81.27
Y = 305433.19
X = 146271.44
PISTA 156+47.14
Y = 305416.26
X = 148537.24

ALIGNMENT DATA
TOWER AVENUE N

POB STA 0+13.34
Y = 305427.55
X = 147027.07
POE STA 13+33.29
Y = 306747.46
X = 147036.87

ALIGNMENT DATA
TOWER AVENUE S

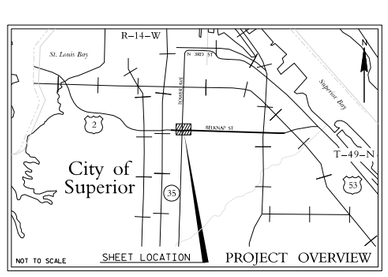
POB STA 685+54.23
Y = 305177.55
X = 147025.32
POE STA 688+04.23
Y = 305427.55
X = 147027.07

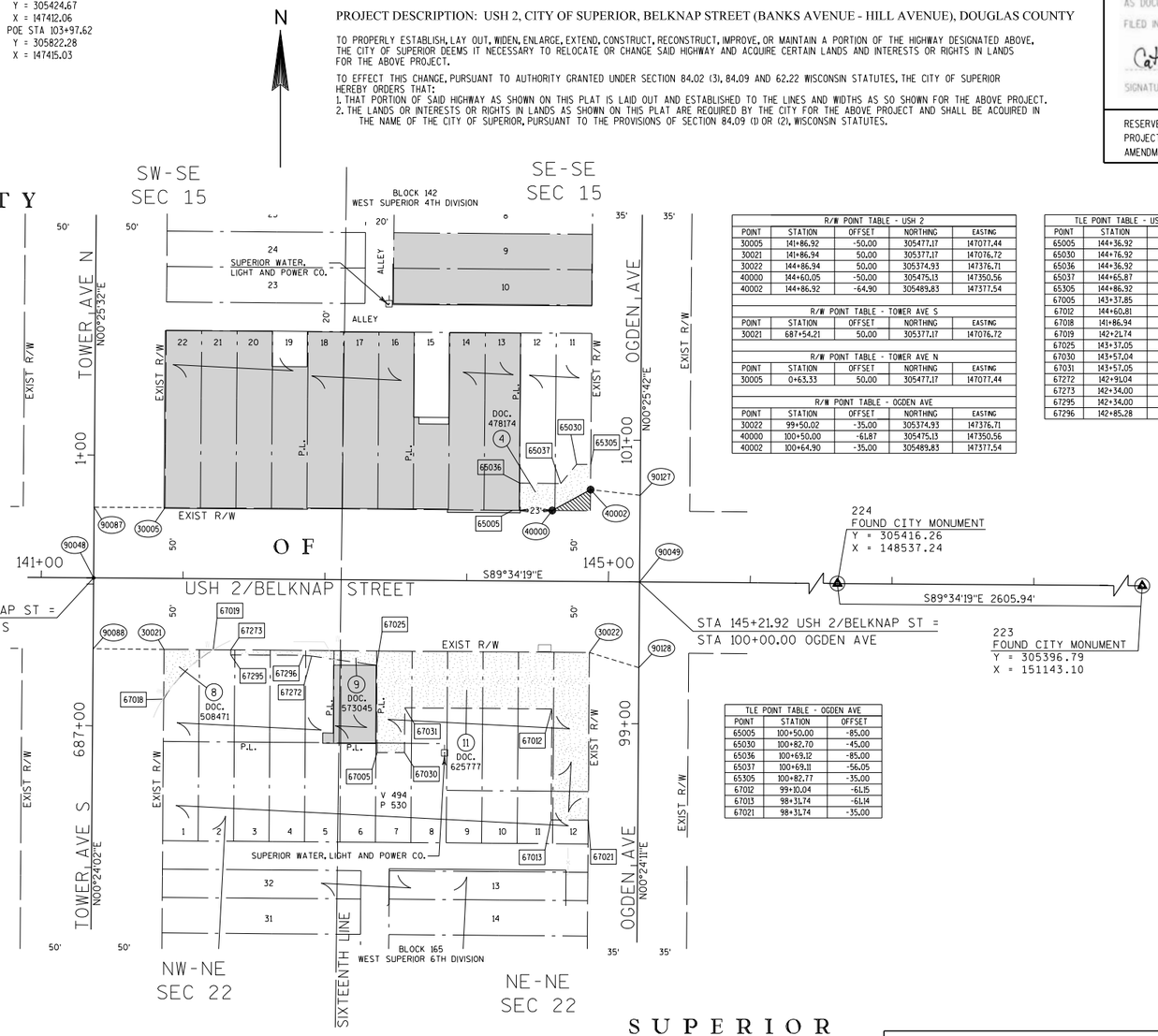
ALIGNMENT DATA
OGDEN AVENUE

POB STA 95+90.46
Y = 305015.14
X = 147409.17
PISTA 100+00.00
Y = 305424.67
X = 147412.06
POE STA 103+97.62
Y = 305822.28
X = 147415.03

COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90049	N 89°34'19" W	1125.22
90049-90128	S 00°24'11" W	60.41
90128-30022	N 73°01'02" W	36.52
30022-30021	N 89°34'19" W	300.00
30021-90088	N 89°34'19" W	50.00
90088-90048	N 00°24'02" E	50.00
90048-90087	N 00°25'32" E	50.00
90087-30005	S 89°34'19" E	50.00
30005-40000	S 89°34'19" E	273.13
40000-40002	N 61°24'47" E	30.72
40002-90127	S 83°32'13" E	35.20
90127-90049	S 00°25'42" W	61.20

ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'





R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30005	141+86.92	-50.00	305477.17	147077.44
30021	141+86.94	50.00	305377.17	147076.72
30022	144+86.94	50.00	305374.93	147376.71
40000	144+60.05	-50.00	305475.13	147350.56
40002	144+86.92	-64.90	305489.83	147377.54

R/W POINT TABLE - TOWER AVE S				
POINT	STATION	OFFSET	NORTHING	EASTING
30021	687+54.21	50.00	305377.17	147076.72

R/W POINT TABLE - TOWER AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
30005	0+63.33	50.00	305477.17	147077.44

R/W POINT TABLE - OGDEN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30022	99+50.02	-35.00	305374.93	147376.71
40000	100+50.00	-61.87	305475.13	147350.56
40002	100+64.90	-35.00	305489.83	147377.54

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65005	144+36.92	-50.00
65030	144+76.92	-82.70
65036	144+36.92	-69.12
65037	144+65.87	-69.11
65305	144+86.92	-82.77
67005	143+37.85	121.72
67012	144+60.81	89.99
67018	141+86.94	85.04
67019	142+21.74	50.00
67025	143+37.05	60.16
67030	143+57.04	121.51
67031	143+57.05	89.99
67272	142+91.04	53.98
67273	142+34.00	50.00
67295	142+34.00	53.50
67296	142+85.28	53.50

TLE POINT TABLE - TOWER AVE S		
POINT	STATION	OFFSET
67018	687+19.17	49.98
67019	687+54.19	84.79

TLE POINT TABLE - OGDEN AVE		
POINT	STATION	OFFSET
65005	100+50.00	-85.00
65030	100+82.70	-45.00
65036	100+69.12	-85.00
65037	100+69.11	-56.05
65305	100+82.77	-35.00
67012	99+10.04	-61.15
67013	98+31.74	-61.14
67021	98+31.74	-35.00

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY. SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

UTILITY INTERESTS REQUIRED			
UTILITY *	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	8, 11

UTILITY EASEMENT INFORMATION	
PARCEL 11	SUPERIOR WATER, LIGHT AND POWER COMPANY DOC. 446564
	SUPERIOR WATER, LIGHT AND POWER COMPANY DOC. 501008

SCHEDULE OF LANDS AND INTERESTS REQUIRED			R/W SQUARE FEET REQUIRED			
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	NEW	EXISTING H.E.	TOTAL	TLE SQ. FT. REQUIRED
4	LARSON CHEVROLET, INC.	FEE & TLE	200.16	0.00	200.16	966.43
8	CITY OF SUPERIOR	TLE	0.00	0.00	0.00	788.54
9	WILLIAM W. ECKMAN	TLE	0.00	0.00	0.00	244.90
11	CITY OF SUPERIOR	TLE	0.00	0.00	0.00	8655.35

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/4/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/4/16
Todd Jarrigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.02.dgn
PLOT DATE : 12/29/2015
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :
4.02

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.03

THAT PART OF LOTS 11 AND 17 THRU 22, BLOCK 141, WEST SUPERIOR 4TH DIVISION AND THE SE-SE OF SECTION 15, THAT PART OF LOT 1, BLOCK 166, WEST SUPERIOR 6TH DIVISION AND THE NE-NE OF SECTION 22 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:00 P.M. ON 01-11-2016 AS DOCUMENT # 878756 AND FILED IN Vol 2 pg 6

Pat Von Haden
Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.03
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT (40000)
TLE POINT 65000
PARCEL NUMBER (8)
SIGN NUMBER (OFF PREMISE) (21-1)
BUILDING
FOUND IRON PIPE/PIN ● (1" UNLESS NOTED) (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ●
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER		

ALIGNMENT DATA USH 2/BELKNAP STREET	ALIGNMENT DATA OGDEN AVENUE	ALIGNMENT DATA JOHN AVENUE
PISTA 137+51.57	POB STA 95+90.46	POB STA 296+30.80
Y = 305430.43	Y = 305015.14	Y = 305052.71
X = 146641.74	X = 147409.17	X = 147779.56
PISTA 156+47.12	PISTA 100+00.00	PISTA 300+00.00
Y = 305416.26	Y = 305424.67	Y = 305421.90
X = 148537.24	X = 147412.06	X = 147782.16
	POE STA 103+97.62	POE STA 304+33.37
	Y = 305822.28	Y = 305855.26
	X = 147415.03	X = 147785.39

N

CITY OF SUPERIOR

SE-SE SEC 15

BLOCK 141
WEST SUPERIOR 4TH DIVISION

OGDEN AVE — JOHN AVE — EXIST R/W — 35' — 20' ALLEY

N00°25'42"E — 101+00 — 301+00

S89°34'19"E — 145+00 — 150+00

USH 2/BELKNAP STREET

STA 145+21.92 USH 2/BELKNAP ST = STA 100+00.00 OGDEN AVE

STA 148+92.03 USH 2/BELKNAP ST = STA 300+00.00 JOHN AVE

224
FOUND CITY MONUMENT
Y = 305416.26
X = 148537.24

S89°34'19"E 2605.94'

223
FOUND CITY MONUMENT
Y = 305396.79
X = 151143.10

99+00 — 299+00

N00°24'11"E — N00°25'42"E

SUPERIOR WATER, LIGHT AND POWER CO.

DOC. 862190

BLOCK 166
WEST SUPERIOR 6TH DIVISION

NE-NE SEC 22

SUPERIOR

ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'

COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90050	N 89°34'19" W	755.11
90050-90044	S 00°24'12" W	59.69
90044-41016	N 85°40'27" W	35.08
41016-41017	N 44°35'04" W	10.33
41017-41014	N 89°34'19" W	269.01
41014-41013	S 49°14'35" W	31.60
41013-90128	N 73°01'02" W	36.52
90128-90049	N 00°24'11" E	60.41
90049-90127	N 00°25'42" E	61.20
90127-40008	S 83°32'13" E	35.20
40008-40009	S 89°34'19" E	135.07
40009-40047	S 00°25'38" W	7.50
40047-40017	S 89°34'19" E	153.00
40017-40018	N 45°08'39" E	17.11
40018-90045	S 83°35'51" E	35.19
90045-90050	S 89°34'19" E	58.49

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65008	145+66.92	-65.00
65011	148+47.03	-65.00
67039	145+87.27	67.71
67040	146+16.93	56.00
67045	147+25.19	56.00
67046	147+25.21	50.00
67060	147+86.63	50.00
67061	147+86.46	65.00
67062	148+41.27	65.00

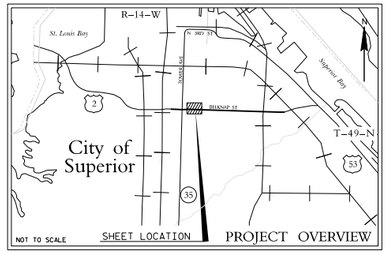
TLE POINT TABLE - OGDEN AVE		
POINT	STATION	OFFSET
65008	100+65.00	45.00
65041	100+83.37	45.00
65042	100+83.30	35.00
67007	98+96.98	44.99
67038	99+12.72	44.99
67039	99+32.26	65.32
67050	98+96.98	35.00

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
40008	145+56.32	-57.50	305481.91	147447.49
40009	146+91.99	-57.50	305480.90	147582.55
40017	148+44.99	-50.00	305472.25	147735.49
40018	148+57.03	-62.16	305484.32	147747.62
40047	146+91.99	-50.00	305473.40	147582.50
41013	145+56.95	70.81	305353.60	147446.56
41014	145+80.73	50.00	305374.23	147470.50
41016	148+57.06	57.30	305364.86	147746.75
41017	148+49.75	50.00	305372.22	147739.50

R/W POINT TABLE - OGDEN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40008	100+57.50	35.00	305481.91	147447.49
41013	99+29.17	35.00	305353.60	147446.56
41014	99+49.97	58.79	305374.23	147470.50

R/W POINT TABLE - JOHN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40017	300+50.00	-47.04	305472.25	147735.49
40018	300+62.16	-35.00	305484.32	147747.62
41016	299+42.71	-35.00	305364.86	147746.75
41017	299+50.02	-42.30	305372.22	147739.50

TLE POINT TABLE - JOHN AVE		
POINT	STATION	OFFSET
65011	300+65.00	-45.00
65053	301+75.00	-35.00
65054	301+75.00	-45.00
67003	298+00.02	-36.15
67006	298+00.02	-35.00
67053	298+20.02	-49.98
67054	298+20.04	-35.00
67062	299+35.02	-50.79
67065	297+78.70	-36.34
67066	297+78.65	-35.00



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
4	LARSON CHEVROLET, INC.	FEE & TLE	937.85	0.00	937.85	1121.17
13	RALPH KRIESEL, JR.	FEE & TLE	148.35	0.00	148.35	3577.31
24	THE WORKERS' MUTUAL SAVINGS BANK	FEE & TLE	274.24	0.00	274.24	4642.29
26	MARK A. AND SUSAN K. ANDERSON	TLE	0.00	0.00	0.00	26.53

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/8/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/8/16
Todd Jarrigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.03.dgn
PLOT DATE : 1/7/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.04

THAT PART OF LOT 22, BLOCK 140, WEST SUPERIOR 4TH DIVISION AND THE SE-SE OF SECTION 15, AND THAT PART OF LOTS 1 AND 12, BLOCK 167, WEST SUPERIOR 6TH DIVISION AND THE NE-NE OF SECTION 22 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:00 P.M. ON 01-11-2016 AS DOCUMENT # 878757 AND FILED IN Vol 2 pg 7

Pat Van Vollen
Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.04
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE)
(TELEPHONE,GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER 8
SIGN NUMBER (OFF PREMISE) 21-1
BUILDING
FOUND IRON PIPE/PIN ● (1" UNLESS NOTED)
R/W MONUMENT ○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD △ ▲ (SET)
SIGN SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26,26 / 35,35 / 18	

ALIGNMENT DATA
USH 2/BELKNAP STREET
PISTA 133+81.27
Y = 305433.19
X = 146271.44
PISTA 156+47.14
Y = 305416.26
X = 148537.24

ALIGNMENT DATA
JOHN AVENUE
POB STA 296+30.80
Y = 305052.71
X = 147779.56
PISTA 300+00.00
Y = 305421.90
X = 147782.16
POE STA 304+33.37
Y = 305855.26
X = 147785.39

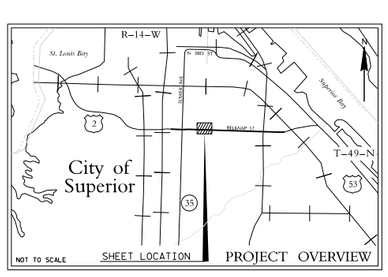
ALIGNMENT DATA
HUGHITT AVENUE
POB STA 306+18.62
Y = 305037.77
X = 148149.48
PISTA 310+00.00
Y = 305419.14
X = 148152.17
POE STA 313+96.69
Y = 305815.82
X = 148155.13

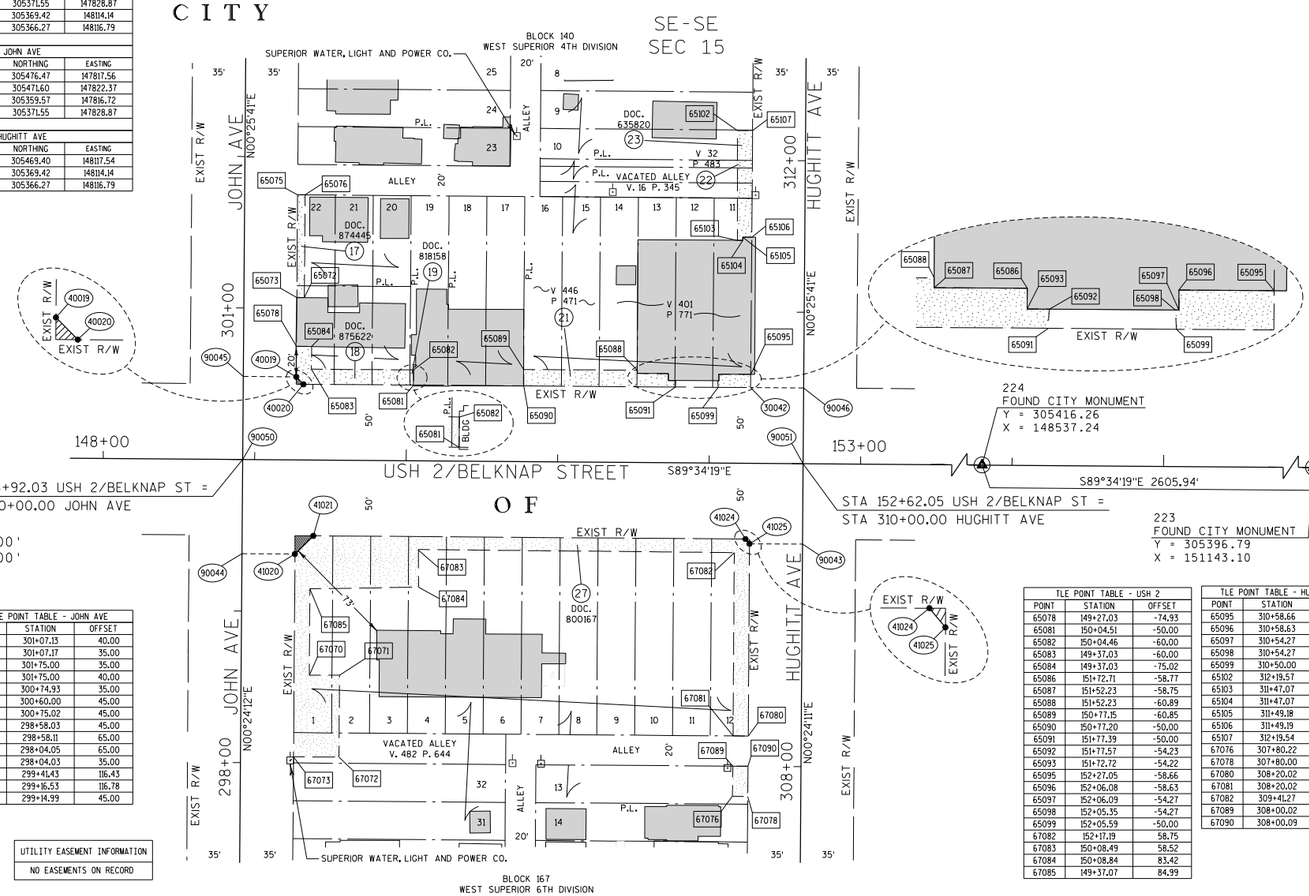
R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30042	152+27.05	-50.00	305469.40	148117.54
40019	149+27.03	-54.83	305476.47	147817.56
40020	149+31.87	-50.00	305471.60	147822.37
41020	149+27.06	62.07	305359.57	147816.72
41021	149+39.12	50.00	305371.55	147828.87
41024	152+24.40	50.00	305369.42	148114.14
41025	152+27.07	53.14	305366.27	148116.79

R/W POINT TABLE - JOHN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40019	300+54.83	35.00	305476.47	147817.56
40020	300+50.00	39.84	305471.60	147822.37
41020	299+37.91	35.00	305359.57	147816.72
41021	299+49.98	47.07	305371.55	147828.87

R/W POINT TABLE - HUGHITT AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30042	310+50.00	-35.00	305469.40	148117.54
41024	309+50.02	-37.67	305369.42	148114.14
41025	309+46.88	-35.00	305366.27	148116.79

COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90051	N 89°34'19" W	385.09
90051-90043	S 00°24'11" W	53.84
90043-41025	N 88°25'06" W	35.01
41025-41024	N 40°00'55" W	4.12
41024-41021	N 89°34'19" W	285.28
41021-41020	S 45°24'40" W	17.07
41020-90044	N 85°40'27" W	35.08
90044-90050	N 00°24'12" E	59.69
90050-90045	N 00°25'41" E	58.49
90045-40019	S 83°35'51" E	35.19
40019-40020	S 44°38'08" E	6.84
40020-30042	S 89°34'19" E	295.18
30042-90046	S 89°34'19" E	35.00
90046-90051	S 00°25'41" W	50.00





ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'

TLE POINT TABLE - JOHN AVE		
POINT	STATION	OFFSET
65073	301+07.17	35.00
65075	301+75.00	35.00
65076	301+75.00	40.00
65078	300+74.93	35.00
65083	300+60.00	45.00
65084	300+75.02	45.00
67070	298+58.03	45.00
67071	298+58.11	65.00
67072	298+04.05	65.00
67073	298+04.03	35.00
67083	299+41.43	116.43
67084	299+16.53	116.78
67085	299+14.99	45.00

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65078	149+27.03	-74.93
65081	150+04.51	-50.00
65082	150+04.46	-60.00
65083	149+37.03	-60.00
65084	149+37.03	-75.02
65086	151+72.71	-58.77
65087	151+52.23	-58.75
65088	151+52.23	-60.89
65089	150+77.15	-60.85
65090	150+77.20	-50.00
65091	151+77.39	-50.00
65092	151+77.57	-54.23
65093	151+72.72	-54.22
65095	152+27.05	-58.66
65096	152+06.08	-58.63
65097	152+06.09	-54.27
65098	152+05.35	-54.27
65099	152+05.59	-50.00
67082	152+17.19	58.75
67083	150+08.49	58.52
67084	150+08.84	83.42
67085	149+37.07	84.99

TLE POINT TABLE - HUGHITT AVE		
POINT	STATION	OFFSET
65095	310+58.66	-35.00
65096	310+58.63	-55.97
65097	310+54.27	-55.96
65098	310+54.27	-56.70
65099	310+50.00	-56.46
65102	312+19.57	-45.00
65103	311+47.07	-44.53
65104	311+47.07	-40.89
65105	311+49.18	-40.90
65106	311+49.19	-35.00
65107	312+19.54	-35.00
67076	307+80.22	-45.06
67078	307+80.00	-35.00
67080	308+20.02	-35.00
67081	308+20.02	-45.00
67082	309+41.27	-44.88
67089	308+00.02	-45.00
67090	308+00.09	-35.00

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
10	CITY OF SUPERIOR	RELEASE OF RIGHTS	22, 27
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	22, 27
30	CENTURYTEL OF THE MIDWEST - KEDALL, LLC	RELEASE OF RIGHTS	22

SCHEDULE OF LANDS AND INTERESTS REQUIRED

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PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
17	W.C.S.L. 1422, LLC	TLE	0.00	0.00	0.00	299.99
18	DONN W. AND LYDELLE M. BERQUIST	FEE & TLE	11.69	0.00	11.69	927.28
19	PAUL M. MOLDENHAUER	TLE	0.00	0.00	0.00	24.52
21	B.P.O.E. SUPERIOR LODGE NO. 403	TLE	0.00	0.00	0.00	1553.11
22	DOUGLAS COUNTY	TLE	0.00	0.00	0.00	147.38
23	PATRICIA M. PETERSON	TLE	0.00	0.00	0.00	194.35
27	NORTHLAND REAL ESTATE HOLDINGS, LLC	FEE & TLE	77.05	0.00	123.00	8238.59

SCALE, FEET
0 50 100

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

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EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

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FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/8/16
John T. Mueller

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/8/16
Todd Jurigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.04.dgn
PLOT DATE : 1/7/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.05

THAT PART OF THE SE-SE OF SECTION 15, AND THAT PART OF LOT 1, BLOCK 168, WEST SUPERIOR 6TH DIVISION AND THE NE-NE OF SECTION 22 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:00 P.M. ON 01-11-2016 AS DOCUMENT # 878758 AND FILED IN Vol 2 pg 8

Pat van Haren
Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.05
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE,GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)
FIRE HYDRANT	
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
HIGHWAY EASEMENT	
R/W BOUNDARY POINT	40000
TLE POINT	65000
PARCEL NUMBER	8
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
FOUND IRON PIPE/PIN	● LS (1" UNLESS NOTED)
R/W MONUMENT	○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD	△ ▲ (SET)
SIGN	| SIGN ⊧SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE	N/A	
SECTION CORNER	17 / 26,26 / 35,35 / 18	

ALIGNMENT DATA
USH 2/BELKNAP STREET

PISTA 133+81.27
Y = 305433.19
X = 146271.44
PISTA 156+47.14
Y = 305416.26
X = 148537.24
PISTA 182+53.07
Y = 305396.79
X = 151143.10

ALIGNMENT DATA
HUGHITT AVENUE

POB STA 306+18.62
Y = 305037.77
X = 148149.48
PISTA 310+00.00
Y = 305419.14
X = 148152.17
POE STA 313+96.69
Y = 305815.82
X = 148155.13

ALIGNMENT DATA
HAMMOND AVENUE

POB STA 323+62.10
Y = 304778.37
X = 148532.79
PISTA 330+00.00
Y = 305416.26
X = 148537.24
POE STA 335+35.67
Y = 305951.92
X = 148541.21

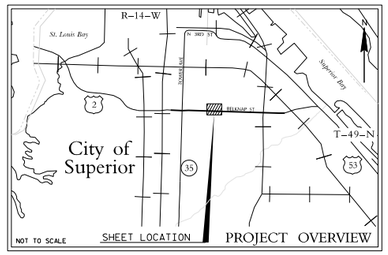
R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30043	152+97.05	-50.00	305468.88	148187.54
30057	155+97.16	50.00	305366.64	148486.89
30058	155+97.13	-50.00	305466.63	148487.61
41003	153+01.62	50.00	305368.84	148191.36
41004	152+97.07	54.54	305364.33	148186.78

R/W POINT TABLE - HUGHITT AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30043	310+50.00	35.00	305468.88	148187.54
41003	309+49.98	39.55	305368.84	148191.36
41004	309+45.44	35.00	305364.33	148186.78

R/W POINT TABLE - HAMMOND AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30057	329+50.02	-50.00	305366.64	148486.89
30058	330+50.00	-50.00	305466.63	148487.61

COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90066	S 00°26'40" W	56.03
90066-30057	N 82°47'20" W	50.32
30057-41003	N 89°34'19" W	295.54
41003-41004	S 45°26'08" W	6.43
41004-90043	N 88°25'06" W	35.01
90043-90051	N 00°24'11" E	53.84
90051-90046	N 00°25'41" E	50.00
90046-30043	S 89°34'19" E	35.00
30043-30058	S 89°34'19" E	300.08
30058-90068	S 89°34'19" E	50.00
90068-224	S 00°25'30" W	50.00





TLE POINT TABLE - HUGHITT AVE		
POINT	STATION	OFFSET
65033	311+95.00	45.00
65109	312+20.00	45.00
65112	312+20.00	35.00
65114	311+75.00	45.00
65116	311+49.39	45.00
65117	311+49.35	35.00
65118	311+75.00	35.00
65225	311+95.00	35.00
67091	307+78.24	35.00
67092	307+78.25	40.00
67097	307+99.98	40.00
67098	308+95.39	35.00
67099	308+95.39	45.22
67100	309+23.71	45.08
67101	309+39.97	60.00
67104	307+99.98	35.00

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65017	155+95.17	-53.76
65120	155+30.22	-69.57
65121	155+30.07	-55.27
65122	155+46.26	-55.63
65123	155+52.67	-55.03
65124	155+54.93	-52.52
65125	155+67.31	-52.56
65126	155+71.78	-57.00
65127	155+76.41	-56.96
65128	155+76.38	-53.70
65131	154+72.15	-50.00
65132	154+72.14	-70.02
67100	153+07.16	76.27
67101	153+22.08	60.00
67102	153+72.10	60.00
67103	153+72.09	50.00
67105	154+55.92	50.00
67106	154+55.92	60.00
67107	154+23.51	60.00
67108	154+23.51	50.00
67111	154+97.17	50.00
67112	154+97.17	57.09
67113	155+16.09	56.87
67114	155+15.97	51.31
67117	155+34.76	51.17
67118	155+34.76	50.00

TLE POINT TABLE - HAMMOND AVE		
POINT	STATION	OFFSET
65017	330+53.76	-51.97
65018	330+72.18	-51.77
65038	330+72.18	-52.37
65047	330+81.99	-52.27
65049	330+81.96	-50.00

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	36

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
28	A & L SUPERIOR CITY CENTER, LLC	TLE	0.00	0.00	0.00	249.99
29	BOXER INVESTMENTS, LLC	TLE	0.00	0.00	0.00	256.29
31	HELMISTRAHL HARRINGTON	TLE	0.00	0.00	0.00	1498.29
33	RANDY J. AND BETH A. SEVERIN	TLE	0.00	0.00	0.00	108.75
34	BRIAN J. AUGUSTINE	FEE & TLE	10.33	0.00	10.33	1636.98
36	BACHAND ESTATES, LLP	TLE	0.00	0.00	0.00	154.87

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2154 CHIPPEWA FALLS, WI LAND SURVEYOR

DATE 1/8/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/8/16
Todd Jonigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.05.dgn
PLOT DATE : 1/7/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.06

THAT PART OF THE SW-SW OF SECTION 14, AND THAT PART OF LOT 1, BLOCK 274, WEST SUPERIOR 14TH DIVISION AND THE NW-NW OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:00 P.M. ON 01-11-2016 AS DOCUMENT # 878759 AND FILED IN Vol 2 pg 9

Pat van Haren
Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.06
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER 8
SIGN NUMBER (OFF PREMISE) 21-1
BUILDING
FOUND IRON PIPE/PIN LS "1" UNLESS NOTED (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ● (SET)
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26,26 / 35,35 / 18	

ALIGNMENT DATA
USH 2/BELKNAP STREET

PI STA 133+81.27
Y = 305433.19
X = 146271.44
PI STA 156+47.14
Y = 305416.26
X = 148537.24
PI STA 182+53.07
Y = 305396.79
X = 151143.10

ALIGNMENT DATA
HAMMOND AVENUE

POB STA 323+62.10
Y = 304778.37
X = 148532.79
PI STA 330+00.00
Y = 305416.26
X = 148537.24
POE STA 335+35.67
Y = 305951.92
X = 148541.21

ALIGNMENT DATA
CUMMING AVENUE

POB STA 336+92.49
Y = 305105.88
X = 148920.22
PI STA 340+00.00
Y = 305413.38
X = 148922.37
POE STA 343+83.69
Y = 305797.07
X = 148925.24

N

CITY

SW-SW
SEC 14

BLOCK 270 WEST
SUPERIOR 13TH ADDITION

332+00 HAMMOND AVE N00°25'30"E
342+00 CUMMING AVE N00°25'41"E
EXIST R/W
50' 50' 35' 35'

VACATED ALLEY
DOC. 743568
DOC. 821037

224
FOUND CITY MONUMENT
Y = 305416.26
X = 148537.24

156+00
STA 156+47.14 USH 2/BELKNAP ST =
STA 330+00.00 HAMMOND AVE

USH 2/BELKNAP STREET
S89°34'19"E

S89°34'19"E 2605.94'

161+00
STA 160+32.28 USH 2/BELKNAP ST =
STA 340+00.00 CUMMING AVE

223
FOUND CITY MONUMENT
Y = 305396.79
X = 151143.10

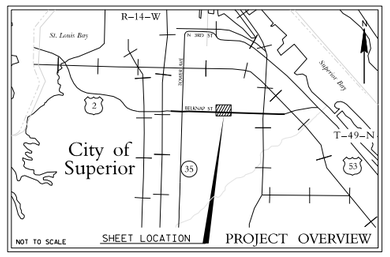
DOC. 832607
DOC. 862653
DOC. 861047
DOC. 870808
DOC. 803399
DOC. 728518

328+00 HAMMOND AVE N00°24'00"E
338+00 CUMMING AVE N00°24'00"E
ALLEY 20'

SUPERIOR WATER, LIGHT AND POWER CO.
BLOCK 274
WEST SUPERIOR 14TH DIVISION

NW-NW
SEC 23

SUPERIOR



R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30059	156+97.13	-50.00	305465.89	148587.61
30096	159+97.30	50.00	305363.65	148887.02
30097	159+97.28	-50.00	305463.64	148887.74
41028	156+97.17	62.07	305353.82	148586.81
41029	157+09.23	50.00	305365.8	148598.96

R/W POINT TABLE - HAMMOND AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30059	330+50.00	50.00	305465.89	148587.61
41028	329+37.90	50.00	305353.82	148586.81

R/W POINT TABLE - CUMMING AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30096	339+50.02	-35.00	305363.65	148887.02
30097	340+50.00	-35.00	305463.64	148887.74

COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90068	N 00°25'30" E	50.00
90068-30059	S 89°34'19" E	50.00
30059-30097	S 89°34'19" E	300.14
30097-90129	N 87°23'40" E	35.05
90129-90052	S 00°25'41" W	51.85
90052-90070	S 00°24'00" W	50.00
90070-30096	N 89°34'19" W	35.00
30096-41029	N 89°34'19" W	288.07
41029-41028	S 45°24'40" W	17.07
41028-90066	N 82°41'20" W	50.41
90066-2024	N 00°26'40" E	56.03

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65016	157+97.18	-65.29
65019	158+34.20	-65.29
65050	158+34.39	-84.82
65051	158+28.98	-90.00
65052	158+64.91	-90.00
65063	158+59.59	-85.11
65064	158+59.86	-65.29
65068	159+80.58	-64.69
65147	157+38.87	-67.87
65148	157+97.18	-67.87
67033	159+86.45	60.02
67048	159+58.25	60.26
67126	157+56.12	90.00
67127	157+55.94	50.00
67134	158+07.10	50.00
67135	158+07.15	60.00
67136	158+41.71	60.00
67137	158+41.72	50.00
67145	159+58.00	51.72
67146	159+35.78	51.66
67147	159+35.77	55.02
67148	158+86.67	54.87
67149	158+84.89	54.65
67150	158+84.83	50.00

TLE POINT TABLE - HAMMOND AVE		
POINT	STATION	OFFSET
65144	331+26.15	50.00
65145	331+26.09	60.00
65146	330+91.60	60.00
67004	328+04.27	50.00
67027	328+04.26	60.00
67029	328+09.97	60.00
67032	328+09.97	50.00
67035	328+24.97	57.41
67036	328+30.85	57.43
67120	328+24.98	50.00
67121	328+30.88	50.00
67126	329+09.95	108.94
67130	328+82.97	50.00
67131	328+82.57	90.00
67132	329+09.96	90.00

TLE POINT TABLE - CUMMING AVE		
POINT	STATION	OFFSET
65068	340+64.69	-51.69
65136	341+41.83	-52.27
65137	341+41.74	-65.00
65138	341+88.78	-65.00
65139	341+88.96	-35.00
67008	338+10.02	-45.00
67033	339+40.00	-45.85
67034	338+10.02	-35.00
67037	337+89.74	-45.00
67047	337+89.82	-35.00
67141	338+25.02	-35.00
67142	338+25.02	-45.00

ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
32	DOUGLAS COUNTY	TLE	0.00	0.00	0.00	9137.31
37	JAMES MAURICE KRAEMER	TLE	0.00	0.00	0.00	57.05
38	NAHN VAN VO	TLE	0.00	0.00	0.00	373.94
39	NHAN V. VO AND VU T. VO	FEE & TLE	72.86	0.00	72.86	3067.43
41	LINDA L. EMMERT	TLE	0.00	0.00	0.00	320.02
42	PLB LLC, VENDOR, LC TO OHANA HOLDINGS, LLC, PURCHASER	TLE	0.00	0.00	0.00	1895.65
43	JEFFREY C. REASBECK	TLE	0.00	0.00	0.00	100.37

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/8/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/8/16
Todd Jungo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.06.dgn
PLOT DATE : 1/7/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.07

THAT PART OF LOTS 11, 20, 21 AND 22, BLOCK 269, WEST SUPERIOR 13TH ADDITION AND THE SW-SW OF SECTION 14, AND THE NW-NW OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:15 PM ON 01-26-2016 AS DOCUMENT # 879007 AND FILED IN Vol 2 pg 11

Pat von Haden, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.07
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE,GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT (40000)
TLE POINT 65000
PARCEL NUMBER (8)
SIGN NUMBER (OFF PREMISE) (21-)
BUILDING
FOUND IRON PIPE/PIN ⌀ (1" UNLESS NOTED)
R/W MONUMENT ○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD △ ▲ (SET)
SIGN |SIGN ⊧SIGN

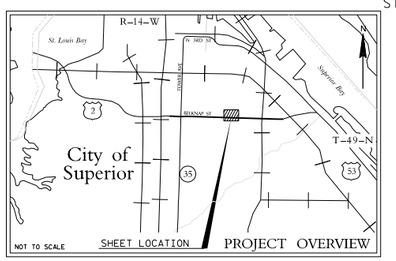
ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

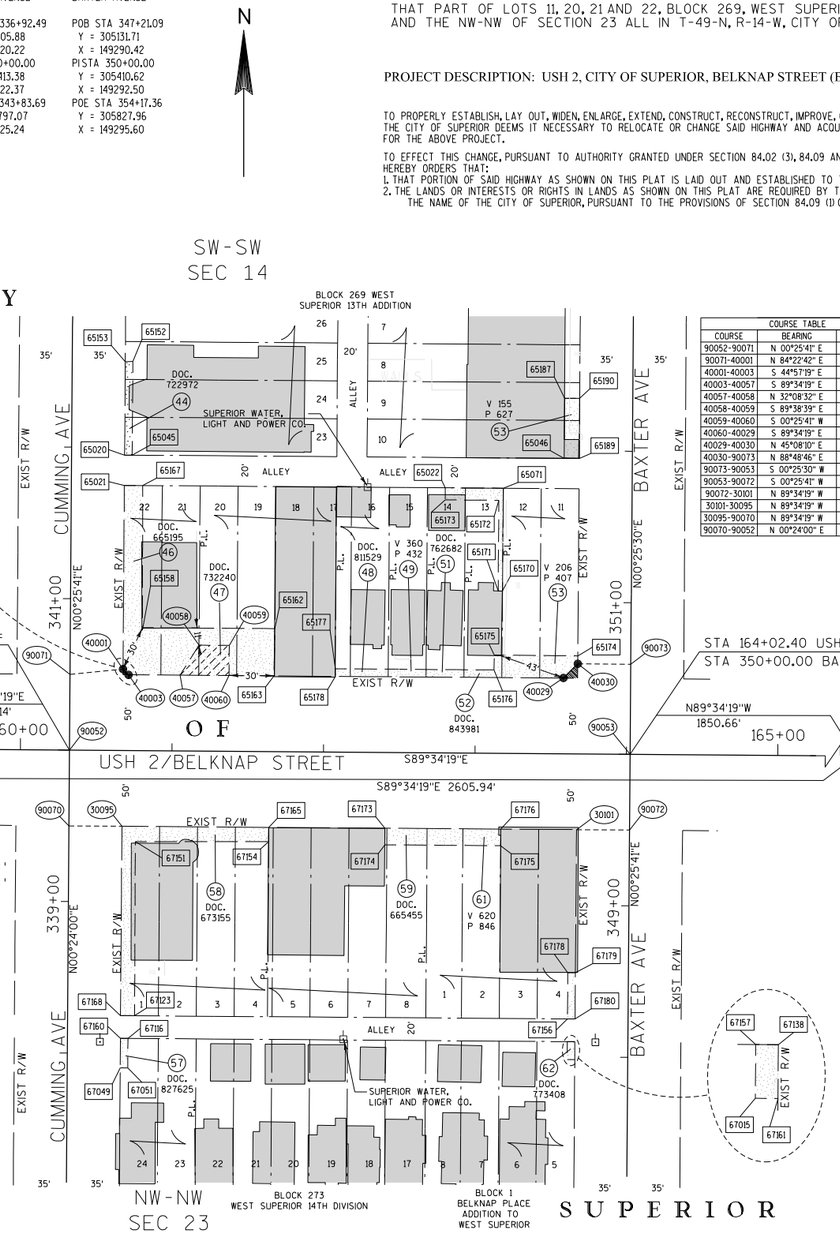
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE	⊕	■
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌘	■
GUY POLE	⊙	N/A
SECTION CORNER	17 / 26,26 / 35,35 / 18	

ALIGNMENT DATA USH 2/BELKNAP STREET	ALIGNMENT DATA CUMMING AVENUE	ALIGNMENT DATA BAXTER AVENUE
	POB STA 336+92.49	POB STA 347+21.09
	Y = 305105.88	Y = 305131.71
	X = 148920.22	X = 149290.42
PISTA 156+47.12	PISTA 340+00.00	PISTA 350+00.00
Y = 305416.26	Y = 305413.38	Y = 305410.62
X = 148537.24	X = 148922.37	X = 149292.50
PISTA 182+53.06	POE STA 343+83.69	POE STA 354+17.36
Y = 305396.79	Y = 305797.07	Y = 305827.96
X = 151143.10	X = 148925.24	X = 149295.60



ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'



COURSE TABLE		
COURSE	BEARING	DISTANCE
90052-90071	N 00°25'41" E	50.00
90071-40001	N 84°22'42" E	35.20
40001-40003	S 44°57'19" E	5.28
40003-40057	S 89°34'19" E	33.96
40057-40058	N 32°08'32" E	23.40
40058-40059	S 89°38'39" E	20.00
40059-40060	S 00°25'41" W	19.93
40060-40029	S 89°34'19" E	220.74
40029-40030	N 45°08'10" E	13.32
40030-90073	N 88°48'46" E	35.01
90073-90053	S 00°25'30" W	60.46
90053-90072	S 00°25'41" W	50.00
90072-30101	N 89°34'19" W	35.00
30101-30095	N 89°34'19" W	300.12
30095-90070	N 89°34'19" W	35.00
90070-90052	N 00°24'00" E	50.00

R/W POINT TABLE - USH 2

POINT	STATION	OFFSET	NORTHING	EASTING
30095	160+67.30	50.00	305363.12	148957.02
30101	163+67.42	50.00	305360.88	149257.13
40001	160+67.28	-53.71	305466.83	148957.77
40003	160+71.04	-50.00	305463.09	148961.51
40029	163+58.04	-50.00	305460.95	149248.50
40030	163+67.41	-59.47	305470.35	149257.94
40057	161+95.00	-50.00	305462.84	148995.47
40058	161+37.30	-69.90	305482.65	149007.91
40059	161+37.30	-69.93	305482.52	149027.91
40060	161+37.30	-50.00	305462.60	149027.76

R/W POINT TABLE - CUMMING AVE

POINT	STATION	OFFSET	NORTHING	EASTING
30095	339+49.98	35.00	305363.12	148957.02
40001	340+53.71	35.00	305466.83	148957.77
40003	340+50.00	38.76	305463.09	148961.51

R/W POINT TABLE - BAXTER AVE

POINT	STATION	OFFSET	NORTHING	EASTING
30101	349+50.00	-35.00	305360.88	149257.13
40029	350+50.00	-44.37	305460.95	149248.50
40030	350+59.47	-35.00	305470.35	149257.94

TLE POINT TABLE - USH 2

POINT	STATION	OFFSET
65158	160+79.81	-81.15
65162	161+67.32	-81.22
65163	161+66.93	-50.00
65174	163+67.41	-64.72
65175	163+12.24	-64.86
65176	163+12.25	-55.00
65177	162+07.50	-55.00
65178	162+07.50	-50.00
67151	160+76.24	60.13
67154	161+64.30	59.47
67165	161+64.30	50.00
67173	162+40.92	50.00
67174	162+40.99	61.00
67175	163+17.42	61.00
67176	163+17.42	50.00

TLE POINT TABLE - CUMMING AVE

POINT	STATION	OFFSET
65020	341+95.00	35.00
65021	341+75.00	35.00
65045	341+95.00	40.00
65152	342+56.77	40.00
65153	342+56.57	35.00
65158	340+81.15	47.54
65167	341+75.00	47.15
67049	337+90.38	35.00
67051	337+90.42	40.00
67116	338+09.98	40.00
67123	338+24.98	44.27
67151	339+39.85	43.94
67160	338+09.98	35.00
67168	338+24.98	35.00

TLE POINT TABLE - BAXTER AVE

POINT	STATION	OFFSET
65022	351+75.01	-123.35
65046	351+95.00	-45.00
65071	351+75.00	-85.01
65170	351+07.11	-85.04
65171	351+07.05	-87.86
65172	351+67.00	-87.86
65173	351+67.01	-123.29
65174	350+64.72	-35.00
65187	352+34.68	-44.91
65189	351+95.00	-35.00
65190	352+34.71	-35.00
67015	347+98.15	-40.00
67138	348+10.00	-35.00
67156	348+25.00	-40.00
67157	348+10.00	-40.00
67161	347+98.15	-35.00
67178	348+55.52	-40.00
67179	348+55.53	-35.00
67180	348+25.00	-35.00

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED NEW	R/W SQUARE FEET REQUIRED EXISTING H.E.	R/W SQUARE FEET REQUIRED TOTAL	HE SQ. FT. REQUIRED	TLE SQ. FT. REQUIRED
44	CATHOLIC CHARITIES BUREAU	TLE	0.00	0.00	0.00	0.00	308.34
46	MIKE D. PETCOFF	FEE, HE & TLE	6.98	0.00	6.98	122.38	2587.60
47	JAMES L. CIRILLI, VENDOR, L.C. TO RICHARD S. GONDIK, JR., PURCHASER	HE & TLE	0.00	0.00	0.00	398.29	1156.42
48	LINDA J. WESTMAN	TLE	0.00	0.00	0.00	0.00	174.28
49	DALE H. AND PATRICIA A. CARLSON	TLE	0.00	0.00	0.00	0.00	125.06
51	RAMONA JUNO	TLE	0.00	0.00	0.00	0.00	231.44
52	MATTHEW DIETSCHE	TLE	0.00	0.00	0.00	0.00	542.29
53	CATHEDRAL OF CHRIST THE KING	FEE & TLE	44.37	0.00	44.37	0.00	1090.22
57	ALLEN R. SHEPARD AND LISA M. MADEWELL	TLE	0.00	0.00	0.00	0.00	97.92
58	CLARENCE O. MATTSON, JR. AND SHERRY L. MATTSON	TLE	0.00	0.00	0.00	0.00	1999.74
59	TOBY E. MARCOVICH, ETAL	TLE	0.00	0.00	0.00	0.00	307.98
61	B.T. PROPERTIES OF SUPERIOR, L.L.P.	TLE	0.00	0.00	0.00	0.00	688.97
62	PHILIP M. STAURSETH	TLE	0.00	0.00	0.00	0.00	59.25

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/25/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/25/16
Todd Janigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.07.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 1/22/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.08

THAT PART OF LOTS 11, 12 AND 22, BLOCK 268, WEST SUPERIOR 13TH ADDITION AND THE SW-SW OF SECTION 14, AND THE NW-NW OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:00 P.M. ON 01-11-2016 AS DOCUMENT # 878760 AND FILED IN Vol 2 pg. 10

Pat van Haren
Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.08
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER 8
SIGN NUMBER (OFF PREMISE) 21-1
BUILDING
FOUND IRON PIPE/PIN ● 1" UNLESS NOTED (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ●
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE	N/A	
SECTION CORNER	17 / 26,26 / 35,35 / 18	

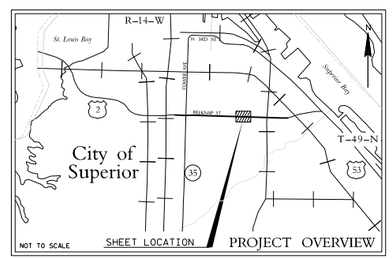
ALIGNMENT DATA USH 2/BELKNAP STREET
PISTA 156+47.12
Y = 305416.26
X = 148537.24
PISTA 182+53.06
Y = 305396.79
X = 151143.10

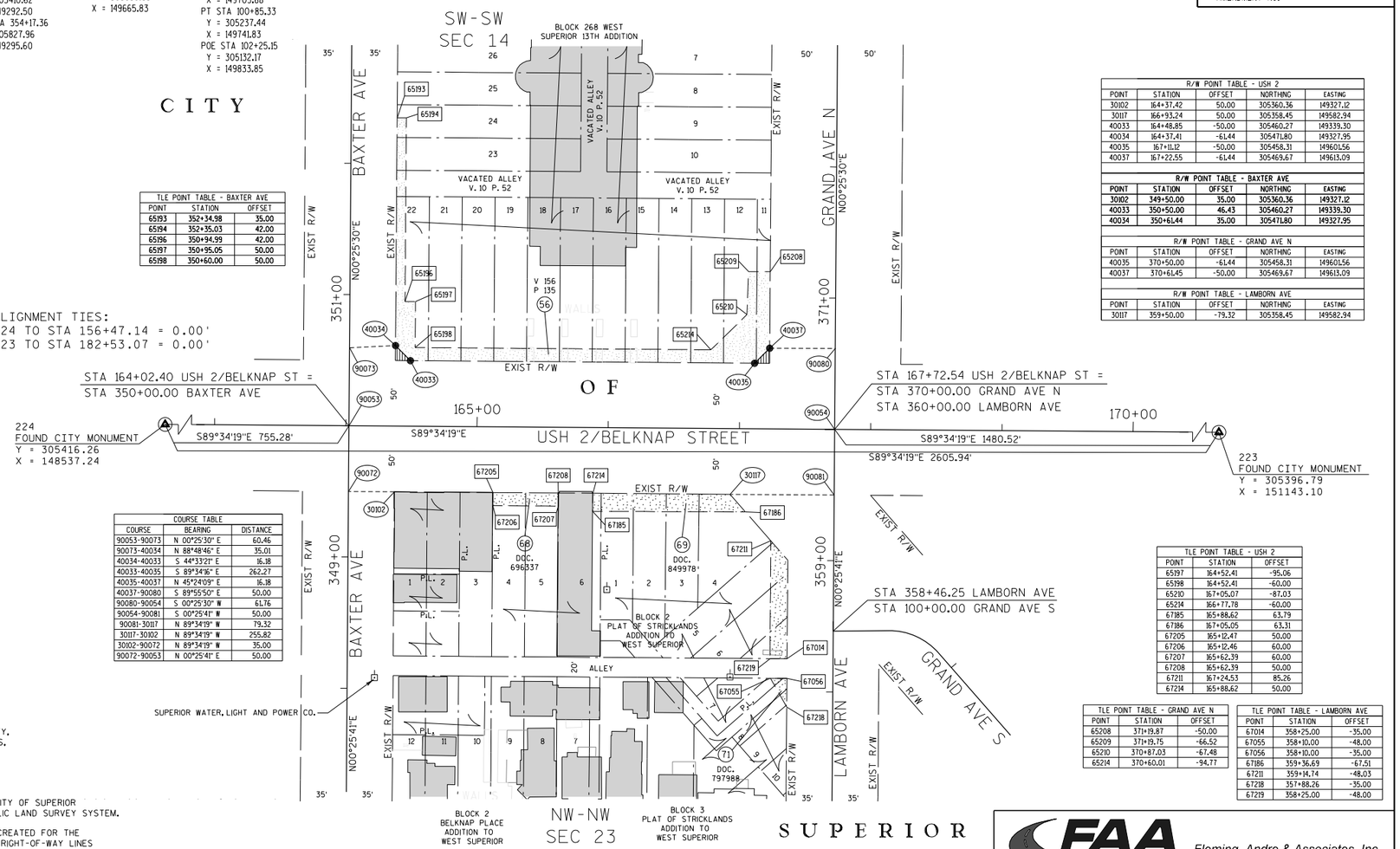
ALIGNMENT DATA BAXTER AVENUE
POB STA 347+21.09
Y = 305131.71
X = 149290.42
PISTA 350+00.00
Y = 305410.62
X = 149292.50
POE STA 354+17.36
Y = 305827.96
X = 149295.60

ALIGNMENT DATA LAMBORN AVENUE
POB STA 356+83.41
Y = 305091.27
X = 149660.26
POE STA 360+00.00
Y = 305407.85
X = 149662.63

ALIGNMENT DATA GRAND AVENUE
POB STA 370+00.00
Y = 305407.85
X = 149662.63
POE STA 374+31.51
Y = 305839.35
X = 149665.83

ALIGNMENT DATA GRAND AVENUE S
POB STA 100+00.00
Y = 305254.11
X = 149661.48
PISTA 100+65.21
Y = 305254.77
X = 149726.69
DELTA = 49°25'23"
D = 114°35'30"
T = 23.01'
L = 43.13'
R = 50.00'
LC = 41.81'
LCB = S 65°52'00" E
PC STA 100+42.20
Y = 305254.53
X = 149703.68
PT STA 100+85.33
Y = 305237.44
X = 149741.83
POE STA 102+25.15
Y = 305132.17
X = 149833.85





TLE POINT TABLE - BAXTER AVE		
POINT	STATION	OFFSET
65193	352+34.98	35.00
65194	352+35.03	42.00
65196	350+94.99	42.00
65197	350+95.05	50.00
65198	350+60.00	50.00

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30102	164+37.42	50.00	305360.36	149327.12
30117	166+93.24	50.00	305358.45	149582.94
40033	164+48.85	-50.00	305460.27	149339.30
40034	164+37.41	-61.44	305471.80	149327.95
40035	167+11.12	-50.00	305458.31	149601.56
40037	167+22.55	-61.44	305469.67	149613.09

R/W POINT TABLE - BAXTER AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30102	349+50.00	35.00	305360.36	149327.12
40033	350+50.00	46.43	305460.27	149339.30
40034	350+61.44	35.00	305471.80	149327.95

R/W POINT TABLE - GRAND AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
40035	370+50.00	-61.44	305458.31	149601.56
40037	370+61.45	-50.00	305469.67	149613.09

R/W POINT TABLE - LAMBORN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30117	359+50.00	-79.32	305358.45	149582.94

COURSE TABLE		
COURSE	BEARING	DISTANCE
90053-90073	N 00°25'30" E	60.46
90073-40034	N 88°48'46" E	35.01
40034-40033	S 44°33'21" E	16.38
40033-40035	S 89°34'16" E	262.27
40035-40037	N 45°24'09" E	16.38
40037-90080	S 89°55'50" E	50.00
90080-90054	S 00°25'30" W	61.76
90054-90081	S 00°25'41" W	50.00
90081-30117	N 89°34'19" W	79.32
30117-30102	N 89°34'19" W	255.82
30102-90072	N 89°34'19" W	35.00
90072-90053	N 00°25'41" E	50.00

TLE POINT TABLE - USH 2	
POINT	STATION	OFFSET
65197	164+52.41	-95.06
65198	164+52.41	-60.00
65210	167+05.07	-87.03
65214	166+77.78	-60.00
67185	165+88.62	63.79
67186	167+05.05	63.31
67205	165+12.47	50.00
67206	165+12.46	60.00
67207	165+62.39	60.00
67208	165+62.39	50.00
67211	167+24.53	85.26
67214	165+88.62	50.00

TLE POINT TABLE - GRAND AVE N		
POINT	STATION	OFFSET
65208	371+19.87	-50.00
65209	371+19.75	-66.52
65210	370+87.03	-67.48
65214	370+60.01	-94.77

TLE POINT TABLE - LAMBORN AVE		
POINT	STATION	OFFSET
67014	358+25.00	-35.00
67055	358+10.00	-48.00
67056	358+10.00	-35.00
67186	359+36.69	-67.51
67211	359+14.74	-48.03
67218	357+88.26	-35.00
67219	358+25.00	-48.00

NOTES:

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RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
56	CATHEDRAL OF CHRIST THE KING	FEE & TLE	130.85	0.00	130.85	5624.74
68	JACK E. AND MARJORIE PETERSON	TLE	0.00	0.00	0.00	586.69
69	BARBARA E. GRAHAM AND CLARA LEE BALKO	TLE	0.00	0.00	0.00	2511.08
71	GARY G. AND DALENE JO KITTELSON	TLE	0.00	0.00	0.00	109.45

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/8/16
John T. Mueller

WISCONSIN JOHN T. MUELLER 2464 CHIPPEWA FALLS W LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/8/16
Todd Jorrgo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.08.dgn
PLOT DATE : 1/7/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

4.08

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.09

THAT PART OF LOTS 21 AND 22, BLOCK 267, WEST SUPERIOR 13TH ADDITION AND THE SW-SW AND THE SE-SW OF SECTION 14, PART OF LOTS 1, 2 AND 10 OF BLOCK 1, PLAT OF STRICKLANDS ADDITION TO WEST SUPERIOR AND THE NW-NW AND THE NE-NW OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:15 P.M. ON 01-26-2016 AS DOCUMENT # 879008 AND FILED IN Vol 2 pg 12

Pat van Hollen, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.09
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT (40000)
TLE POINT 65000
PARCEL NUMBER (8)
SIGN NUMBER (OFF PREMISE) (21-1)
BUILDING
FOUND IRON PIPE/PIN ● (1" UNLESS NOTED) (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ●
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET. AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER		

ALIGNMENT DATA GRAND AVENUE S

POB STA 100+00.00
Y = 305254.11
X = 149661.48
PI STA 100+65.21
Y = 305254.77
X = 149726.69
DELTA = 49°25'23"
D = 114°35'30"
T = 23.01'
L = 43.13'
R = 50.00'
LC = 41.81'
LCB = S 65°52'00" E
PC STA 100+42.20
Y = 305254.53
X = 149703.68
PT STA 100+85.33
Y = 305237.44
X = 149741.83
POE STA 102+25.15
Y = 305132.17
X = 149833.85

ALIGNMENT DATA USH 2/BELKNAP STREET

P.I. STA 156+47.12
Y = 305416.26
X = 148537.24
P.I. STA 182+53.06
Y = 305396.79
X = 151143.10

ALIGNMENT DATA LAMBORN AVENUE

POB STA 356+83.41
Y = 305091.27
X = 149660.26
POE STA 360+00.00
Y = 305407.85
X = 149662.63

ALIGNMENT DATA GRAND AVENUE N

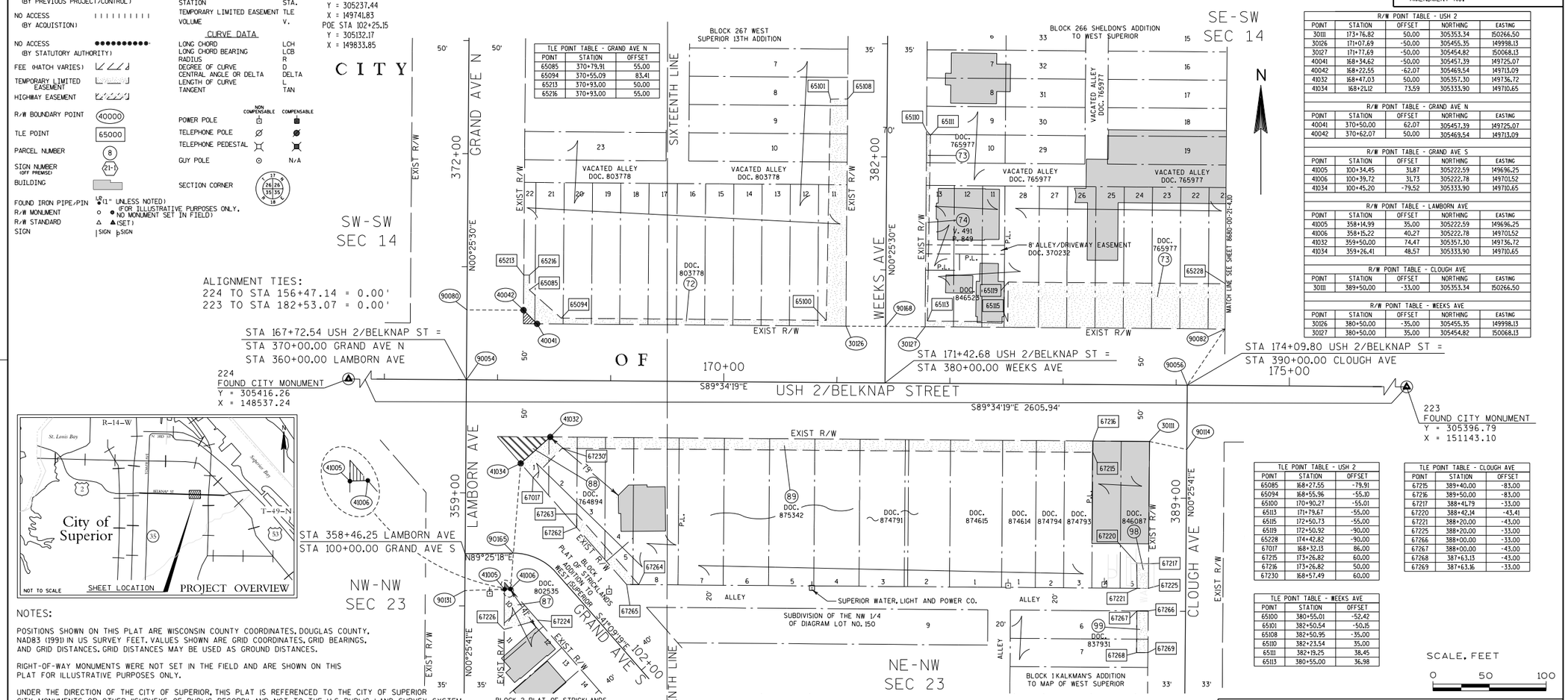
POB STA 370+00.00
Y = 305407.85
X = 149662.63
POE STA 374+31.51
Y = 305839.35
X = 149665.83

ALIGNMENT DATA WEEKS AVE

POB STA 380+00.00
Y = 305405.09
X = 150032.76
POE STA 385+14.30
Y = 305919.37
X = 150036.57

ALIGNMENT DATA CLOUGH AVE

POB STA 386+96.63
Y = 305099.73
X = 1502947.604
POE STA 390+00.00
Y = 305403.09
X = 150299.87



ALIGNMENT TIES:
224 TO STA 156+47.14 = 0.00'
223 TO STA 182+53.07 = 0.00'

STA 167+72.54 USH 2/BELKNAP ST =
STA 370+00.00 GRAND AVE N
STA 360+00.00 LAMBORN AVE

STA 171+42.68 USH 2/BELKNAP ST =
STA 380+00.00 WEEKS AVE

STA 174+09.80 USH 2/BELKNAP ST =
STA 390+00.00 CLOUGH AVE

224
FOUND CITY MONUMENT
Y = 305416.26
X = 148537.24

223
FOUND CITY MONUMENT
Y = 305396.79
X = 151143.10

STA 358+46.25 LAMBORN AVE
STA 100+00.00 GRAND AVE S

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

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FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

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TLE POINT TABLE - GRAND AVE N		
POINT	STATION	OFFSET
65085	370+79.91	55.00
65094	370+55.09	83.41
65213	370+93.00	50.00
65216	370+93.00	55.00

COURSE TABLE		
COURSE	BEARING	DISTANCE
224-90054	S 89°34'19" E	1125.42
90054-90080	N 00°25'30" E	61.76
90080-40042	S 89°55'50" E	50.00
40042-40041	S 44°34'27" E	17.07
40041-30126	S 89°34'19" E	273.07
30126-90168	S 89°34'19" E	35.00
90168-30127	S 89°34'19" E	35.00
30127-90082	S 89°34'19" E	265.12
90082-90056	S 33°51'11" W	59.91
90056-90114	S 00°25'41" W	56.77
90114-30111	N 77°59'08" W	33.69
30111-41032	N 89°34'19" W	529.79
41032-41034	S 48°06'10" W	35.03
41034-90165	S 04°47'40" W	79.63
90165-41006	S 04°47'40" W	31.87
41006-41005	S 87°57'23" W	5.28
41005-90131	S 87°57'23" W	35.03
90131-90054	N 00°25'41" E	186.52
225-90056	N 89°34'19" W	843.26

TLE POINT TABLE - GRAND AVE S		
POINT	STATION	OFFSET
67224	101+06.47	40.00
67262	100+75.43	-41.79
67263	100+71.96	-51.35
67264	101+41.58	-48.05
67265	101+34.44	-40.00

TLE POINT TABLE - LAMBORN AVE		
POINT	STATION	OFFSET
67017	359+14.00	59.58
67224	357+87.83	64.58
67226	357+79.57	35.00
67230	359+40.00	84.93

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30111	173+76.82	50.00	305353.34	150266.50
30126	171+07.69	-50.00	305455.35	149998.13
30127	171+77.69	-50.00	305454.82	150068.13
40041	168+34.62	-50.00	305457.39	149725.07
40042	168+22.55	-62.07	305469.54	149713.09
41032	168+47.03	50.00	305357.30	149736.72
41034	168+21.12	73.59	305333.90	149710.65

R/W POINT TABLE - GRAND AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
40041	370+50.00	62.07	305457.39	149725.07
40042	370+62.07	50.00	305469.54	149713.09

R/W POINT TABLE - GRAND AVE S				
POINT	STATION	OFFSET	NORTHING	EASTING
41005	100+34.45	31.87	305222.59	149696.25
41006	100+39.72	31.73	305222.78	149701.52
41034	100+45.20	-79.52	305333.90	149710.65

R/W POINT TABLE - LAMBORN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
41005	358+14.99	35.00	305222.59	149696.25
41006	358+15.22	40.27	305222.78	149701.52
41032	359+50.00	74.47	305357.30	149736.72
41034	359+26.41	48.57	305333.90	149710.65

R/W POINT TABLE - CLOUGH AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30111	389+50.00	-33.00	305353.34	150266.50

R/W POINT TABLE - WEEKS AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30126	380+50.00	-35.00	305455.35	149998.13
30127	380+50.00	35.00	305454.82	150068.13

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65085	168+27.55	-79.91
65094	168+55.96	-55.10
65100	170+90.27	-55.01
65113	171+79.67	-55.00
65115	172+50.73	-55.00
65119	172+50.92	-90.00
65228	174+42.82	-90.00
67017	168+32.13	86.00
67215	173+26.82	60.00
67216	173+26.82	50.00
67230	168+57.49	60.00

TLE POINT TABLE - CLOUGH AVE		
POINT	STATION	OFFSET
67215	389+40.00	-83.00
67216	389+50.00	-83.00
67217	388+41.79	-33.00
67220	388+42.14	-43.41
67221	388+20.00	-43.00
67225	388+20.00	-33.00
67266	388+00.00	-33.00
67267	388+00.00	-43.00
67268	387+63.13	-43.00
67269	387+63.16	-33.00

TLE POINT TABLE - WEEKS AVE		
POINT	STATION	OFFSET
65100	380+55.01	-52.42
65101	382+50.54	-50.15
65108	382+50.95	-35.00
65110	382+23.54	35.00
65111	382+19.25	38.45
65113	380+55.00	36.98

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	87, 98

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED NEW	EXISTING H.E.	TOTAL	TLE SQ. FT. REQUIRED
72	GRAND CENTRAL DEVELOPMENT, LLC	FEE & TLE	72.83	0.00	72.83	5098.17
73	BLAINE BUSINESS CENTER, LLC	TLE	0.00	0.00	0.00	8294.20
74	LESLIE E. SCHUMACHER	TLE	0.00	0.00	0.00	203.42
87	PATRICIA H. ELLS	FEE & TLE	16.28	0.00	16.28	599.05
88	COMO OIL COMPANY, VENDOR, L.C. TO EAGLES NEST RENTAL PROPERTIES, L.L.C., PURCHASER	FEE & TLE	552.41	0.00	552.41	2233.41
89	KWIK TRIP, INC.	TLE	0.00	0.00	0.00	3658.50
98	ZOE TEMPELIS, VENDOR, L.C. TO MARIA L. LETSOS, PURCHASER	TLE	0.00	0.00	0.00	224.10
99	ZOE TEMPELIS	TLE	0.00	0.00	0.00	368.55

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/25/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/25/16
Todd Janigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.09.dgn
PLOT DATE : 1/22/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 8680-00-21 - 4.10
AMENDMENT NO: 1

THAT PART OF LOT 11, BLOCK 265, WEST SUPERIOR 13TH DIVISION AND THE SE-SW OF SECTION 14, AND THAT PART OF LOT 1, BLOCK 2, KALKMAN'S ADDITION TO MAP OF WEST SUPERIOR AND THAT PART OF LOTS 7 THRU 12, BLOCK 272, WEST SUPERIOR 14TH DIVISION AND THE NE-NW OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 11:50 A.M. ON June 8, 2016 AS DOCUMENT # 881613 AND FILED IN Vol. 2 pg. 19

Patricia Nalen, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.10
AMENDMENT NO: 1

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE)
(TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER 8
SIGN NUMBER (OFF PREMISE) 21-1
BUILDING
FOUND IRON PIPE/PIN LS (1" UNLESS NOTED)
R/W MONUMENT ○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

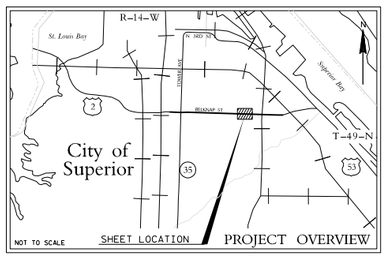
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26,26 / 35,35 / 18	

ALIGNMENT DATA USH 2/BELKNAP STREET
PISTA 156+47.12
Y = 305416.26
X = 148537.24
PISTA 182+53.06
Y = 305396.79
X = 151143.10

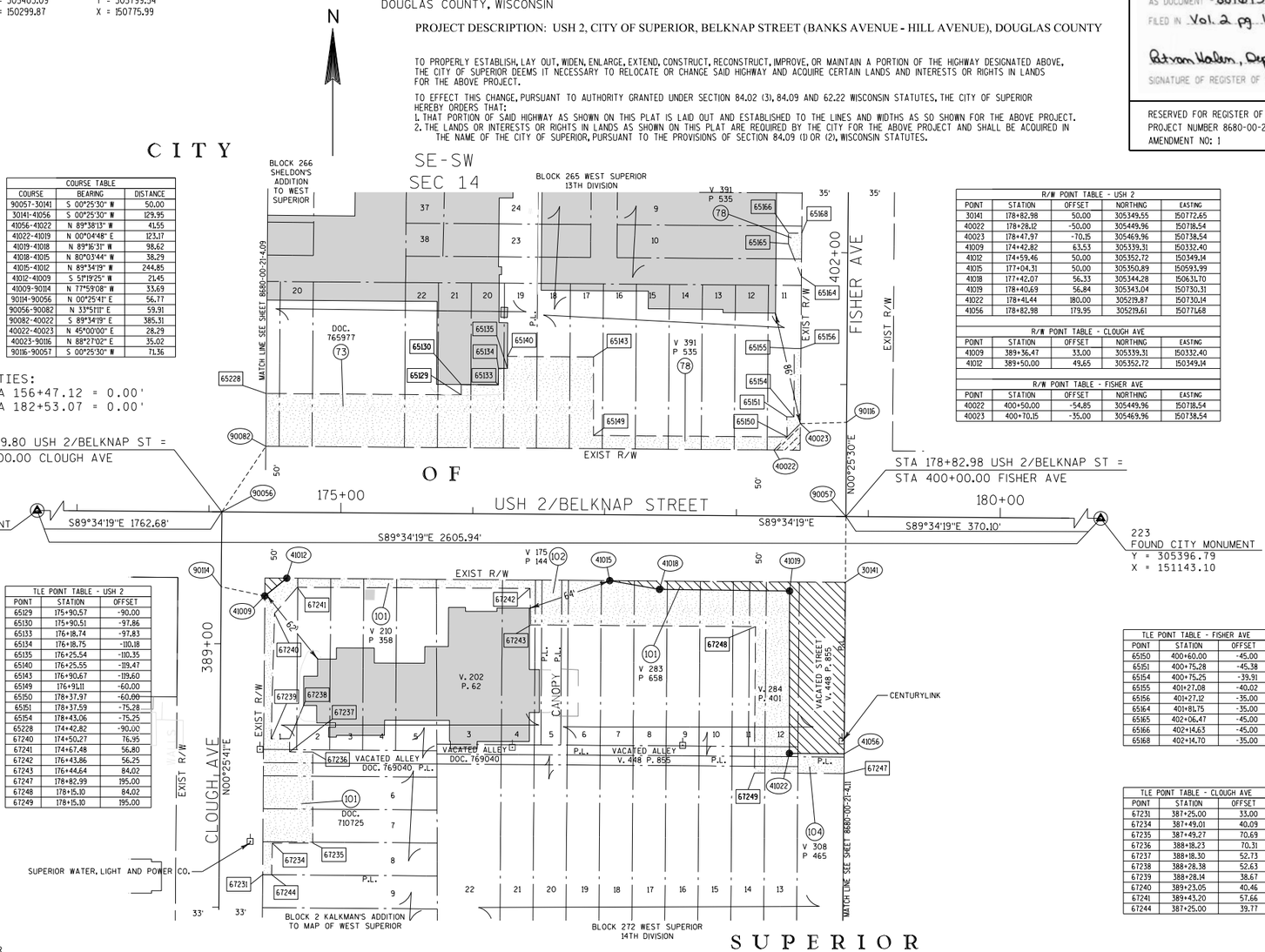
ALIGNMENT DATA CLOUGH AVE
POB STA 386+96.63
Y = 305099.73
X = 1502947.604
POE STA 390+00.00
Y = 305403.09
X = 150299.87

ALIGNMENT DATA FISHER AVE
POB STA 400+00.00
Y = 305399.55
X = 150773.02
POE STA 404+00.00
Y = 305799.54
X = 150775.99



COURSE TABLE		
COURSE	BEARING	DISTANCE
90057-30141	S 00°25'30" W	50.00
30141-41056	S 00°25'30" W	129.95
41056-41022	N 89°38'13" W	41.55
41022-41019	N 00°04'48" E	123.17
41019-41018	N 89°16'31" W	98.62
41018-41015	N 80°03'44" W	38.29
41015-41012	N 89°34'19" W	244.85
41012-41009	S 51°19'25" W	21.45
41009-90114	N 77°59'08" W	33.69
90114-90056	N 00°25'41" E	56.77
90056-90082	N 33°51'11" E	59.91
90082-40022	S 89°34'19" E	385.31
40022-40023	N 45°00'00" E	28.29
40023-90116	N 88°27'02" E	35.02
90116-90057	S 00°25'30" W	71.36

ALIGNMENT TIES:
2024 TO STA 156+47.12 = 0.00'
2023 TO STA 182+53.07 = 0.00'



TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65129	175+90.57	-90.00
65130	175+90.51	-97.86
65133	176+18.74	-97.83
65134	176+18.75	-110.18
65135	176+25.54	-110.35
65140	176+25.55	-119.47
65143	176+90.67	-119.60
65149	176+91.11	-60.00
65150	178+37.97	-60.00
65151	178+37.59	-75.28
65154	178+43.06	-75.25
65228	174+42.82	-90.00
67240	174+50.27	76.95
67241	174+67.48	56.80
67242	176+43.86	56.25
67243	176+44.64	84.02
67247	178+82.99	195.00
67248	178+15.10	84.02
67249	178+15.10	195.00

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30141	178+82.98	50.00	305349.55	150772.65
40022	178+28.12	-50.00	305449.96	150718.54
40023	178+47.97	-70.15	305469.96	150738.54
41009	174+42.82	63.53	305339.31	150332.40
41012	174+59.46	50.00	305352.72	150349.14
41015	177+04.31	50.00	305350.89	150593.99
41018	177+42.07	56.33	305344.28	150631.70
41019	178+40.69	56.84	305343.04	150730.31
41022	178+41.44	180.00	305219.87	150730.14
41056	178+82.98	179.95	305219.61	150771.68

R/W POINT TABLE - CLOUGH AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
41009	389+36.47	33.00	305339.31	150332.40
41012	389+50.00	49.65	305352.72	150349.14

R/W POINT TABLE - FISHER AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40022	400+50.00	-54.85	305449.96	150718.54
40023	400+70.15	-35.00	305469.96	150738.54

TLE POINT TABLE - FISHER AVE		
POINT	STATION	OFFSET
65150	400+60.00	-45.00
65151	400+75.28	-45.38
65154	400+75.25	-39.91
65155	401+27.08	-40.02
65156	401+27.12	-35.00
65164	401+81.75	-35.00
65165	402+06.47	-45.00
65166	402+14.63	-45.00
65168	402+14.70	-35.00

TLE POINT TABLE - CLOUGH AVE		
POINT	STATION	OFFSET
67231	387+25.00	33.00
67234	387+49.01	40.09
67235	387+49.27	70.69
67236	388+18.23	70.31
67237	388+18.30	52.73
67238	388+28.38	52.63
67239	388+28.14	38.67
67240	389+23.05	40.46
67241	389+43.20	57.66
67244	387+25.00	39.77

NOTES:

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UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

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EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

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UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
10	CITY OF SUPERIOR	RELEASE OF RIGHTS	101, 104
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	101, 104

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED			OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED NEW	EXISTING H.E.	TOTAL	H.E. SQ. FT. REQUIRED	TLE SQ. FT. REQUIRED
73	BLAINE BUSINESS CENTER, LLC	TLE	0.00	0.00	0.00	0.00	9219.80
78	U.S. POSTAL SERVICE	HE & TLE	0.00	0.00	0.00	200.01	4981.70
101	PILGRIM EVANGELICAL LUTHERAN CHURCH OF SUPERIOR	FEE & TLE	6331.84	0.00	6331.84	0.00	13,187.99
102	CITY OF SUPERIOR	TLE	0.00	0.00	0.00	0.00	510.34
104	BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SYSTEM	TLE	0.00	0.00	0.00	0.00	848.58

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS, WI LAND SURVEYOR

DATE 6/6/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR
DATE 6/6/16
Todd Janigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.10.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/3/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft

TRANSPORTATION PROJECT PLAT NO: 8680-00-21 - 4.11

THAT PART OF LOTS 11 AND 22, BLOCK 264, WEST SUPERIOR 13TH ADDITION AND THE SE-SW OF SECTION 14, AND THAT PART OF LOTS 12 AND 13, BLOCK 271, WEST SUPERIOR 14TH DIVISION AND THE NE-NW OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:15 P.M ON 01-26-2016 AS DOCUMENT # 879010 AND FILED IN Vol 2 pg 14
Pat Van Haren, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.11
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE) (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER 8
SIGN NUMBER (OFF PREMISE) 21-1
BUILDING
FOUND IRON PIPE/PIN LOCATED 1" UNLESS NOTED (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ● (SET)
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26 26 / 35 35 / 18	

ALIGNMENT DATA USH 2/BELKNAP STREET
PISTA 156+47.12
Y = 305416.26
X = 148537.24
PISTA 182+53.06
Y = 305396.79
X = 151143.10
PISTA 208+33.02
Y = 305377.27
X = 153722.98
DELTA = 23°2112" Left
D = 06°15'43"
T = 189.10'
L = 372.95'
R = 915.00'
LC = 370.37'
LCB = N 78°45'25" E
PC STA 206+43.92
Y = 305378.70
X = 153533.89
PT STA 210+16.87
Y = 305450.91
X = 153897.15

ALIGNMENT DATA FISHER AVE
POB STA 400+00.00
Y = 305399.55
X = 150773.02
POE STA 404+00.00
Y = 305799.54
X = 150775.99

ALIGNMENT DATA CATLIN AVE
POB STA 407+50.00
Y = 305146.80
X = 151141.25
PISTA 410+00.00
Y = 305396.79
X = 151143.10
POE STA 413+00.00
Y = 305696.78
X = 151145.33

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65195	179+50.20	-63.98
65201	179+67.99	-63.99
65202	179+67.99	-59.38
65203	181+59.39	-59.88
65204	181+59.17	-89.98
65206	181+86.76	-89.97
65207	181+86.98	-59.87
65215	182+13.49	-59.85
65217	182+13.49	-74.80
65218	182+18.07	-74.83
67247	178+82.99	195.00
67250	179+22.99	195.44
67251	179+22.98	82.50
67252	180+23.00	82.50
67253	180+22.86	54.24
67254	180+59.01	53.80
67255	180+75.46	59.94
67256	181+73.32	60.35
67257	181+91.37	78.37

TLE POINT TABLE - FISHER AVE		
POINT	STATION	OFFSET
65169	402+15.22	35.00
65179	402+15.22	65.00
65180	401+95.00	65.00
65181	401+95.00	35.00
65186	401+75.00	35.00
65188	401+75.00	65.00
65191	401+08.08	65.00
65192	401+08.10	67.69
65195	400+63.97	67.23

TLE POINT TABLE - CATLIN AVE		
POINT	STATION	OFFSET
65215	410+59.85	-39.58
65217	410+74.80	-39.58
65218	410+74.83	-35.00
65219	411+49.76	-35.00
65220	411+49.47	-49.44
65221	411+75.00	-49.14
65222	411+75.00	-35.00
65223	411+95.00	-35.00
65224	411+95.00	-47.04
65226	412+02.75	-47.23
65227	412+02.74	-41.00
65293	412+45.00	-41.00
65294	412+45.00	-35.00
67201	407+73.49	-35.00
67256	409+39.65	-79.75
67257	409+21.63	-61.70
67258	408+05.17	-60.84
67259	408+05.29	-51.70
67260	407+86.94	-51.44
67261	407+73.34	-45.62

ALIGNMENT TIES:
2024 TO STA 156+47.12 = 0.00'
2023 TO STA 182+53.07 = 0.00'

STA 178+82.98 USH 2/BELKNAP ST = STA 400+00.00 FISHER AVE

STA 182+53.06 USH 2/BELKNAP ST = STA 410+00.00 CATLIN AVE

224 FOUND CITY MONUMENT
Y = 305416.26
X = 148537.24

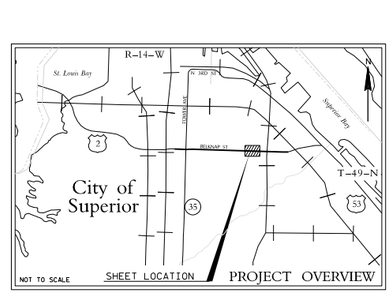
223 FOUND CITY MONUMENT
Y = 305396.79
X = 151143.10

COURSE TABLE		
COURSE	BEARING	DISTANCE
223-90113	S 00°25'30" W	144.99
90113-41039	S 24°27'10" W	85.96
41039-41038	N 89°34'30" W	1.51
41038-41037	N 10°04'30" W	49.62
41037-41036	N 03°55'30" E	50.89
41036-41035	N 13°25'30" E	33.08
41035-41042	N 00°25'30" E	25.06
41042-41041	N 57°50'00" W	5.43
41041-41040	N 51°41'55" W	6.99
41040-41033	N 47°02'06" W	6.70
41033-41031	N 41°35'20" W	6.66
41031-41030	N 89°34'19" W	292.80
41030-41027	S 01°17'25" W	8.55
41027-41026	S 89°45'46" W	11.51
41026-41023	S 00°25'41" W	121.25
41023-41056	N 89°38'13" W	11.11
41056-30141	N 00°25'30" E	129.95
30141-90057	N 00°25'30" E	50.00
90057-90116	N 00°25'30" E	71.36
90116-40024	N 88°27'02" E	35.02
40024-40027	S 47°30'34" E	33.69
40027-40028	S 89°34'19" E	271.10
40028-40031	N 00°30'29" E	8.25
40031-40032	S 89°56'33" E	3.97
40032-90115	S 89°01'57" E	35.00
90115-223	S 00°25'30" W	57.95

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30141	178+82.98	50.00	305349.55	150772.65
40024	179+17.97	-72.57	305471.86	150808.55
40027	179+42.98	-50.00	305449.10	150833.39
40028	182+14.08	-50.00	305447.08	151104.49
40031	182+14.09	-58.25	305455.33	151104.56
40032	182+18.07	-58.28	305455.33	151108.54
41023	178+94.10	179.94	305219.54	150782.80
41026	178+94.10	58.69	305340.79	150783.70
41027	179+05.61	58.55	305340.83	150795.21
41030	179+05.74	50.00	305349.38	150795.41
41031	181+98.54	50.00	305347.20	151088.20
41033	182+03.00	54.95	305342.21	151092.62
41040	182+07.93	59.48	305337.65	151097.52
41041	182+13.45	63.77	305333.32	151103.01
41042	182+18.07	66.63	305330.42	151107.61
41056	178+82.98	179.95	305219.61	150771.68

R/W POINT TABLE - FISHER AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40024	400+72.57	35.00	305471.86	150808.55
40027	400+50.00	60.01	305449.10	150833.39

R/W POINT TABLE - CATLIN AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40028	410+50.00	-38.99	305447.08	151104.49
40031	410+58.25	-38.97	305455.33	151104.56
40032	410+58.28	-35.00	305455.33	151108.54
41031	409+50.00	-54.53	305347.20	151088.20
41033	409+45.05	-50.08	305342.21	151092.62
41035	409+08.31	-35.00	305305.36	151107.42
41036	408+76.08	-42.44	305273.19	151099.74
41037	408+25.29	-45.55	305222.42	151096.26
41038	407+76.50	-36.51	305173.57	151104.94
41039	407+76.50	-35.00	305173.55	151106.45
41040	409+40.53	-45.14	305337.65	151097.52
41041	409+36.23	-39.62	305333.32	151103.01
41042	409+33.37	-35.00	305330.42	151107.61



NOTES:

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UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
10	CITY OF SUPERIOR	RELEASE OF RIGHTS	104, 106
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	104, 106

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED — OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED NEW	EXISTING H.E.	TOTAL	TLE SQ. FT. REQUIRED
79	TIMOTHY J. STEFFAN	TLE	0.00	0.00	0.00	606.62
81	SPORTSMAN'S CHOICE, INC.	FEE & TLE	282.17	0.00	282.17	4328.56
82	TIMOTHY J. STEFFAN	TLE	0.00	0.00	0.00	445.20
83	TIMOTHY J. STEFFAN	TLE	0.00	0.00	0.00	485.61
84	AVIS C. PHELPS	FEE & TLE	32.90	0.00	32.90	1383.74
86	RICHARD J. & DENISE M. KOLANEK	TLE	0.00	0.00	0.00	347.74
103	TIMOTHY J. STEFFAN	FEE & TLE	944.28	0.00	944.28	2303.38
104	BOARD OF REGENTS OF THE UNIVERSITY OF STATE COLLEGES	FEE & TLE	1051.86	0.00	1051.86	4629.59
106	GNT DEVELOPMENT, L.L.C.	FEE & TLE	600.16	0.00	600.16	4225.32

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.11 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/25/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/25/16
Todd Johnigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.11.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 1/21/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft

TRANSPORTATION PROJECT PLAT NO: 8680-00-21- 4.12

THAT PART OF LOT 20, BLOCK 2, ISAAC BERNHEIMER'S SUBDIVISION OF DIAGRAM LOT NO. 88, LOTS 11 AND 12, BLOCK 433, WEST SUPERIOR 18TH DIVISION AND THE SW-SE OF SECTION 14, AND THAT PART OF THE NW-NE OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:15 P.M. ON 01-26-2016 AS DOCUMENT # 879011 AND FILED IN Vol 2 pg 15
Pat VanHalem, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.12
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE		ACCESS POINT	AP
SECTION LINE		ACCESS RIGHTS	AR
QUARTER LINE		ACRES	AC.
SIXTEENTH LINE		AND OTHERS	ET. AL.
PROPOSED REFERENCE LINE		CENTERLINE	C/L
PROPOSED R/W LINE		CERTIFIED SURVEY MAP	CSM
EXISTING H.E. LINE		DOCUMENT	DOC.
PROPERTY LINE		HIGHWAY EASEMENT	H.E.
EASEMENT LINE		LAND CONTRACT	LC
CORPORATE LIMITS		MONUMENT	MON.
EXISTING CENTERLINE		PAGE	P.
LOT & TIE LINES		PROPERTY LINE	PL
UTILITIES (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)	PERMANENT LIMITED EASEMENT	PLE
FIRE HYDRANT		RECORDED AS	(100')
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)		REFERENCE LINE	R/L
NO ACCESS (BY ACQUISITION)		REMAINING	REM.
NO ACCESS (BY STATUTORY AUTHORITY)		RIGHT-OF-WAY	R/W
FEE (HATCH VARIES)		SECTION	SEC.
TEMPORARY LIMITED EASEMENT		SQUARE FEET	SQ.FT.
HIGHWAY EASEMENT		STATION	STA.
R/W BOUNDARY POINT	40000	TEMPORARY LIMITED EASEMENT	TLE
TLE POINT	65000	VOLUME	V.
PARCEL NUMBER	8		
SIGN NUMBER (OFF PREMISE)	21-1		
BUILDING			

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26,26 / 35,35 / 18	

FOUND IRON PIPE/PIN ● (1" UNLESS NOTED) (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W MONUMENT ○ ●
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65159	182+98.06	-74.06
65161	183+11.29	-58.11
65205	183+73.15	-57.96
65212	183+73.13	-60.00
65306	184+58.12	-60.00
65307	184+58.13	-52.81
65308	185+20.08	-52.50
65309	185+20.09	-50.00
65320	186+24.33	-95.76
65321	186+14.14	-95.85
65322	187+19.55	-50.00
65323	187+19.69	-61.65
65324	188+29.60	-61.65
65325	188+29.60	-90.54
65326	188+38.15	-90.59
67042	183+03.71	83.86
67043	183+33.58	55.00
67044	185+04.69	55.00
67052	185+04.51	70.72
67058	185+26.98	70.27
67059	185+27.09	84.81
67063	188+49.45	84.37
67064	188+79.43	97.65

TLE POINT TABLE - CATLIN AVE		
POINT	STATION	OFFSET
65065	412+04.42	35.00
65066	412+04.42	44.99
65067	411+94.99	44.98
65141	411+94.99	35.00
65142	411+74.99	35.00
65157	411+74.99	45.00
65159	410+74.06	45.00
65161	410+58.11	58.23
67024	407+89.88	35.00
67026	407+89.92	50.61
67028	408+07.86	50.35
67041	408+38.89	50.79
67042	409+16.13	50.63
67043	409+44.99	80.50

ALIGNMENT DATA
USH 2/BELKNAP STREET

PISTA 156+47.12
Y = 305416.26
X = 148537.24
PISTA 182+53.06
Y = 305396.79
X = 151143.10
PISTA 208+33.02
Y = 305377.27
X = 153722.98
DELTA = 23°21'12" Left
D = 06°15'43"
T = 189.10'
L = 372.95'
R = 915.00'
LC = 370.37'
LCB = N 78°45'25" E
PC STA 206+43.92
Y = 305378.70
X = 153533.89
PT STA 210+16.87
Y = 305450.91
X = 153897.15

ALIGNMENT DATA
CATLIN AVE

POB STA 407+50.00
Y = 305146.80
X = 151141.25
PISTA 410+00.00
Y = 305396.79
X = 151143.10
POE STA 413+00.00
Y = 305696.78
X = 151145.33

ALIGNMENT DATA
BIRCH AVE

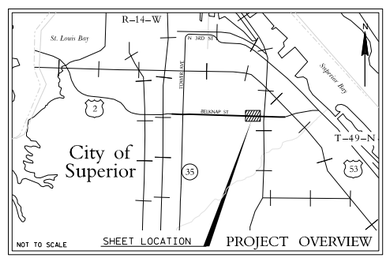
POB STA 420+00.00
Y = 305394.32
X = 151469.16
POE STA 424+30.24
Y = 305824.55
X = 151472.40

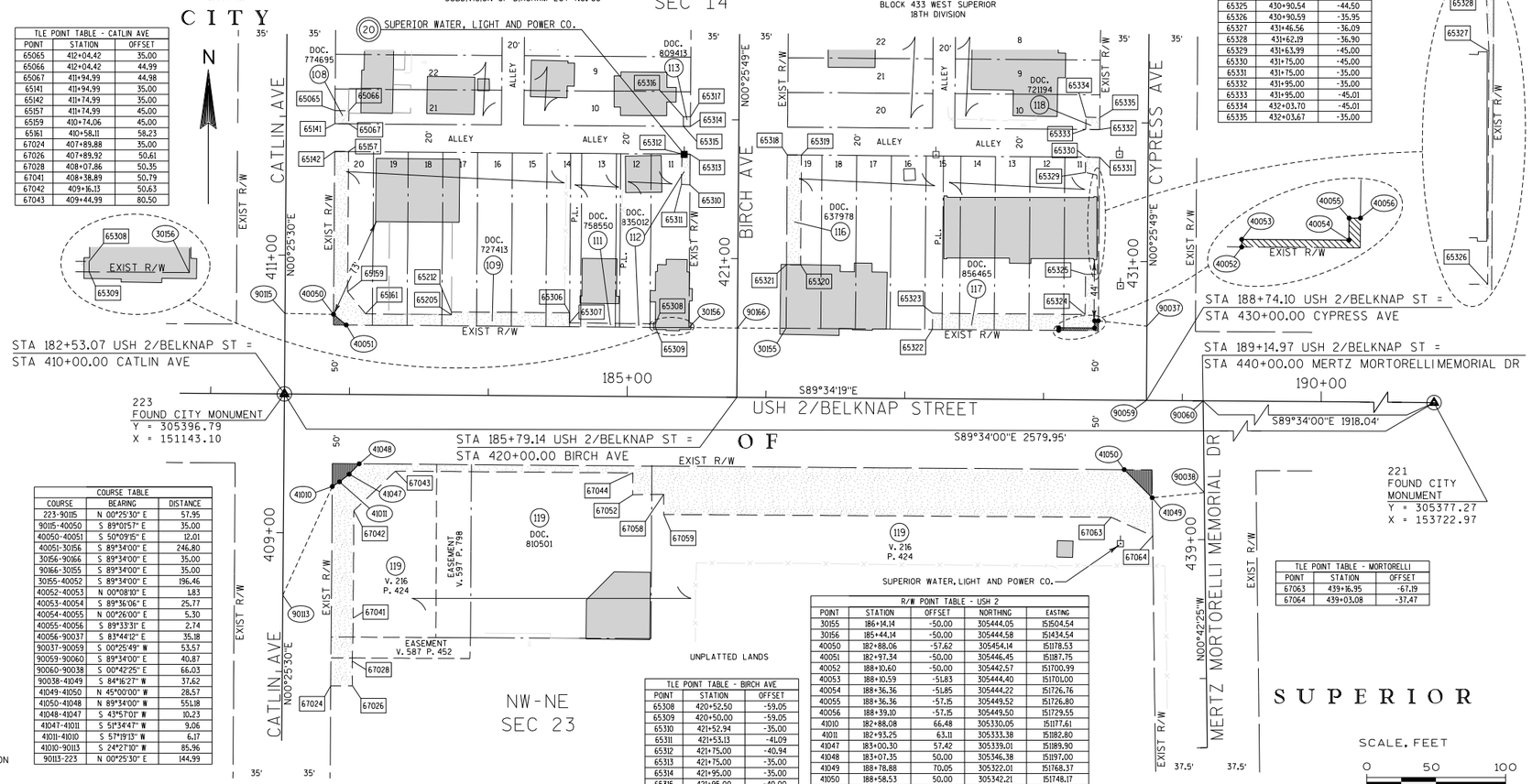
ALIGNMENT DATA
CYPRESS AVE

POB STA 430+00.00
Y = 305392.09
X = 151764.12
POE STA 434+53.11
Y = 305845.19
X = 151767.52

ALIGNMENT DATA
MERTZ MORTORELLI MEMORIAL DR

POB STA 437+49.99
Y = 305141.79
X = 151808.07
POE STA 440+00.00
Y = 305391.78
X = 151804.98





TLE POINT TABLE - CYPRESS AVE		
POINT	STATION	OFFSET
65324	430+61.65	-44.50
65325	430+90.54	-44.50
65326	430+90.59	-35.95
65327	431+46.56	-36.09
65328	431+62.19	-36.90
65329	431+63.99	-45.00
65330	431+75.00	-45.00
65331	431+75.00	-35.00
65332	431+95.00	-35.00
65333	431+95.00	-45.01
65334	432+03.70	-45.01
65335	432+03.67	-35.00

TLE POINT TABLE - MORTORELLI		
POINT	STATION	OFFSET
67063	439+16.95	-67.19
67064	439+03.08	-37.47

TLE POINT TABLE - BIRCH AVE		
POINT	STATION	OFFSET
65308	420+52.50	-59.05
65309	420+50.00	-59.05
65310	421+52.94	-35.00
65311	421+55.13	-41.09
65312	421+75.00	-40.94
65313	421+75.00	-35.00
65314	421+95.00	-35.00
65315	421+95.00	-40.00
65316	422+01.83	-40.05
65317	422+01.87	-35.00
65318	421+75.00	35.00
65319	421+75.00	45.18
65320	420+95.76	45.19
65321	420+95.85	35.00

COURSE TABLE		
COURSE	BEARING	DISTANCE
223-90115	N 00°25'30" E	57.95
90115-40050	S 89°01'57" E	35.00
40050-40051	S 50°09'15" E	12.01
40051-30156	S 89°34'00" E	246.80
30156-90166	S 89°34'00" E	35.00
90166-30155	S 89°34'00" E	35.00
30155-40052	S 89°34'00" E	196.46
40052-40053	N 00°08'10" E	1.83
40053-40054	S 89°36'06" E	25.77
40054-40055	N 00°26'00" E	5.30
40055-40056	S 89°33'31" E	2.74
40056-90037	S 83°44'12" E	35.18
90037-90059	S 00°25'49" W	53.57
90059-90060	S 89°34'00" E	40.87
90060-90038	S 00°42'25" E	66.03
90038-41049	S 84°16'27" W	37.62
41049-41050	N 45°00'00" W	28.57
41050-41048	N 89°34'00" W	55.18
41048-41047	S 43°57'01" W	10.23
41047-41011	S 51°34'47" W	9.06
41011-41010	S 57°19'13" W	6.17
41010-90113	S 24°27'10" W	85.96
90113-223	N 00°25'30" E	144.99

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30155	186+14.14	-50.00	305444.05	151504.54
30156	185+44.14	-50.00	305444.58	151434.54
40050	182+88.06	-57.62	305454.14	151178.53
40051	182+97.34	-50.00	305446.45	151187.75
40052	188+10.60	-50.00	305442.57	151700.99
40053	188+10.59	-51.83	305444.40	151701.00
40054	188+36.36	-51.85	305444.22	151726.76
40055	188+36.36	-57.15	305449.52	151726.80
40056	188+39.20	-57.15	305449.50	151729.55
41010	182+88.08	66.48	305330.05	151177.61
41011	182+93.25	63.11	305333.38	151182.80
41047	183+00.30	57.42	305339.01	151189.90
41048	183+07.35	50.00	305346.38	151197.00
41049	188+78.88	70.05	305322.01	151768.37
41050	188+58.53	50.00	305342.21	151748.17

R/W POINT TABLE - CATLIN AVENUE				
POINT	STATION	OFFSET	NORTHING	EASTING
40050	410+57.62	35.00	305454.14	151178.53
40051	410+49.99	44.27	305446.45	151187.75
41010	409+33.52	35.00	305330.05	151177.61
41011	409+36.89	40.17	305333.38	151182.80
41047	409+42.57	47.23	305339.01	151189.90
41048	409+49.99	54.27	305346.38	151197.00

R/W POINT TABLE - BIRCH AVENUE				
POINT	STATION	OFFSET	NORTHING	EASTING
30155	420+50.00	35.00	305444.05	151504.54
30156	420+50.00	-35.00	305444.58	151434.54

R/W POINT TABLE - CYPRESS AVENUE				
POINT	STATION	OFFSET	NORTHING	EASTING
40054	430+51.85	-37.74	305444.22	151726.76
40055	430+57.15	-37.74	305449.52	151726.80
40056	430+57.15	-35.00	305449.50	151729.55

R/W POINT TABLE - MERTZ MORTORELLI MEMORIAL DRIVE				
POINT	STATION	OFFSET	NORTHING	EASTING
41049	439+30.68	-37.47	305322.01	151768.37
41050	439+51.13	-57.42	305342.21	151748.17

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
10	CITY OF SUPERIOR	RELEASE OF RIGHTS	119
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	112

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED — OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
108	CLARENCE J. HILL, JR.	TLE	0.00	0.00	0.00	94.11
109	LAKEHEAD OIL COMPANY, INC.	FEE & TLE	35.35	0.00	35.35	2774.28
111	FRANK STOKES	TLE	0.00	0.00	0.00	97.91
112	MATTHEW J. THORESON	TLE	0.00	0.00	0.00	198.75
113	DAVID KEVIN LAMMI	TLE	0.00	0.00	0.00	34.42
116	FINN-NOR PROPERTIES	TLE	0.00	0.00	0.00	888.18
117	503 BELKNAP DEVELOPMENT, LLC	FEE & TLE	67.07	0.00	67.07	1719.42
118	CHALLENGE CENTER, INC.	TLE	0.00	0.00	0.00	86.90
119	BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SYSTEM	FEE & TLE	375.05	0.00	375.05	16,382.43

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.12 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 1/25/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/25/16
Todd Janigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.12.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 1/22/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
4.12

TRANSPORTATION PROJECT PLAT NO: 8680-00-21 - 4.13
AMENDMENT NO: 1

THAT PART OF LOT 11, BLOCK 432, WEST SUPERIOR 18TH DIVISION AND THE SW-SE OF SECTION 14,
THAT PART OF THE NW-NE OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:10P.M. ON July 18, 2016 AS DOCUMENT # 882643 AND FILED IN Vol 2 Page 20.

Pat van Valen, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.13
AMENDMENT NO: 1

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)
FIRE HYDRANT	
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
HIGHWAY EASEMENT	
R/W BOUNDARY POINT	40000
TLE POINT	65000
PARCEL NUMBER	8
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
FOUND IRON PIPE/PIN	IP ● (3/4" UNLESS NOTED)
R/W MONUMENT	○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD	△ ▲ (SET)
SIGN	|SIGN ⊧SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ETAL
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	S.F.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26 26 / 35 35 / 18	

ALIGNMENT DATA
USH 2/BELKNAP STREET

PISTA 182+53.06
Y = 305396.79
X = 151143.10
PISTA 208+33.02
Y = 305377.27
X = 153722.98
DELTA = 23°2'12" Left
D = 06°15'43"
T = 189.10'
L = 372.95'
R = 915.00'
LC = 370.37'
LCB = N 78°45'25" E
PC STA 206+43.92
Y = 305378.70
X = 153533.89
PT STA 210+16.87
Y = 305450.91
X = 153897.15

ALIGNMENT DATA
CYPRESS AVE

POB STA 430+00.00
Y = 305392.09
X = 151764.12
POE STA 434+53.11
Y = 305845.19
X = 151767.52

ALIGNMENT DATA
MERTZ MORTORELLI MEMORIAL DR

POB STA 437+50.00
Y = 305141.49
X = 151808.07
POE STA 440+00.00
Y = 305391.78
X = 151804.98

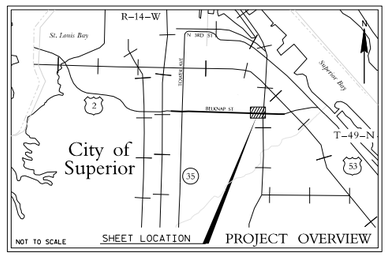
ALIGNMENT DATA
POPLAR AVE

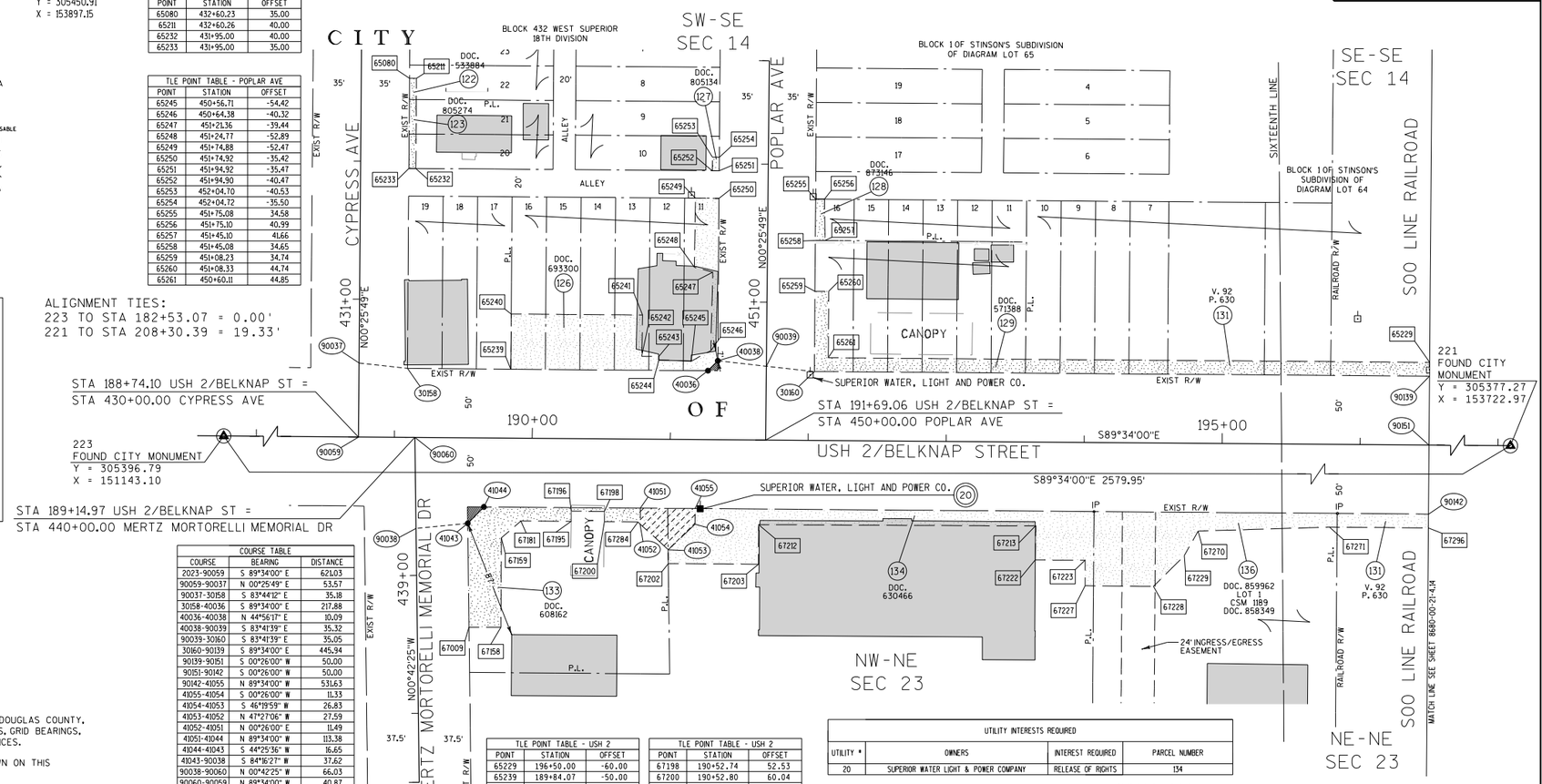
POB STA 450+00.00
Y = 305389.86
X = 152059.07
POE STA 452+75.00
Y = 305664.84
X = 152061.80

TLE POINT TABLE - CYPRESS AVE		
POINT	STATION	OFFSET
65080	432+60.23	35.00
65211	432+60.26	40.00
65232	431+95.00	40.00
65233	431+95.00	35.00

TLE POINT TABLE - POPLAR AVE		
POINT	STATION	OFFSET
65245	450+56.71	-54.42
65246	450+64.38	-40.32
65247	451+21.36	-39.44
65248	451+24.77	-52.89
65249	451+74.88	-52.47
65250	451+74.92	-35.42
65251	451+94.92	-35.47
65252	451+94.90	-40.47
65253	452+04.70	-40.53
65254	452+04.72	-35.50
65255	451+75.08	34.58
65256	451+75.10	40.99
65257	451+45.10	41.66
65258	451+45.08	34.65
65259	451+98.23	34.74
65260	451+08.33	44.74
65261	450+60.11	44.85

ALIGNMENT TIES:
223 TO STA 182+53.07 = 0.00'
221 TO STA 208+30.39 = 19.33'





COURSE TABLE		
COURSE	BEARING	DISTANCE
2023-90059	S 89°34'00" E	621.03
90059-90037	N 00°25'49" E	53.57
90037-30158	S 83°44'12" E	35.18
30158-40036	S 89°34'00" E	217.88
40036-40038	N 44°56'17" E	10.09
40038-90039	S 83°41'39" E	35.32
90039-30160	S 83°41'39" E	35.05
30160-90139	S 89°34'00" E	445.94
90139-90151	S 00°26'00" W	50.00
90151-90142	S 00°26'00" W	50.00
90142-41055	N 89°34'00" W	531.63
41055-41054	S 00°26'00" W	11.33
41054-41053	S 46°19'59" W	26.83
41053-41052	N 47°27'06" W	27.59
41052-41051	N 00°26'00" E	11.49
41051-41044	N 89°34'00" W	113.38
41044-41043	S 44°25'36" W	16.65
41043-90038	S 84°16'27" W	37.62
90038-90060	N 00°42'25" W	66.03
90060-90059	N 89°34'00" W	40.87

TLE POINT TABLE - MORTORELLI		
POINT	STATION	OFFSET
67009	438+61.84	37.47
67158	438+61.66	60.60
67159	439+26.38	61.72
67181	439+38.48	75.97

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65229	196+50.00	-60.00
65239	189+84.07	-50.00
65240	189+84.07	-90.00
65241	190+79.32	-90.00
65242	190+78.88	-60.00
65243	190+91.18	-60.00
65244	190+91.28	-57.45
65245	191+14.78	-56.84
65246	191+28.89	-64.47
65261	192+14.06	-60.00
67159	189+78.14	72.37
67181	189+92.15	60.00
67195	190+28.70	60.00
67196	190+28.73	52.62

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
67198	190+52.74	52.53
67200	190+52.80	60.04
67202	190+99.30	90.00
67203	191+64.70	90.00
67212	191+64.56	61.33
67213	193+65.18	60.79
67222	193+65.21	85.41
67223	194+01.44	85.34
67227	194+01.58	103.82
67228	194+51.04	103.92
67229	194+73.27	81.46
67270	194+83.08	63.58
67271	195+78.25	60.00
67284	190+76.98	60.00
67296	196+50.00	60.00

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
20	SUPERIOR WATER LIGHT & POWER COMPANY	RELEASE OF RIGHTS	134

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30158	189+09.10	-50.00	305441.82	151799.49
30160	192+04.06	-50.00	305439.59	152094.44
40036	191+26.98	-50.00	305440.18	152017.37
40038	191+34.06	-57.20	305447.32	152024.50
41043	189+53.68	61.98	305329.51	151843.23
41044	189+65.25	50.00	305341.40	151854.88
41051	190+78.63	50.00	305340.54	151968.26
41052	190+78.63	61.49	305329.05	151968.17
41053	190+99.10	80.00	305310.39	151988.50
41054	191+18.37	61.33	305328.92	152007.91
41055	191+18.37	50.00	305340.24	152008.00

R/W POINT TABLE - CYPRESS AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30158	430+50.00	35.00	305441.82	151799.49

R/W POINT TABLE - MERTZ MORTORELLI MEMORIAL DR				
POINT	STATION	OFFSET	NORTHING	EASTING
41043	439+37.26	37.47	305329.51	151843.23
41044	439+49.01	49.27	305341.40	151854.88

R/W POINT TABLE - POPLAR AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30160	450+50.08	34.88	305439.59	152094.44
40036	450+49.90	-42.20	305440.18	152017.37
40038	450+57.12	-35.14	305447.32	152024.50

SCHEDULE OF LANDS AND INTERESTS REQUIRED			R/W SQUARE FEET REQUIRED			H.E. SQ. FT. REQUIRED	TLE SQ. FT. REQUIRED
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	NEW	EXISTING H.E.	TOTAL		
122	JOHN M. AND JANICE M. LETSOS	TLE	0.00	0.00	0.00	0.00	76.24
123	WILLIAM F. SALMONSON	TLE	0.00	0.00	0.00	0.00	249.99
126	LEROY R. JOHNSON, JR. AND JULIE A. JOHNSON	FEE & TLE	25.47	0.00	25.47	0.00	5460.38
127	BRIAN MARVIN JOHNSON	TLE	0.00	0.00	0.00	0.00	49.16
128	PHILIP A. MATSON	TLE	0.00	0.00	0.00	0.00	201.40
129	ERICKSON OIL PRODUCTS, INC.	TLE	0.00	0.00	0.00	0.00	2011.89
131	SOO LINE RAILROAD COMPANY	TLE	0.00	0.00	0.00	0.00	3646.87
133	S.S.G. CORPORATION	FEE, PLE & TLE	70.67	0.00	70.67	415.72	2928.59
134	STEVEN M. AND CHERYL A. BENJAMINSON	PLE &TLE	0.00	0.00	0.00	407.09	5954.38
136	DGI-SUPERIOR, LLC	TLE	0.00	0.00	0.00	0.00	4730.45

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.13 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

JOHN T. MUELLER 2454 CHIPPEWA FALLS WI LAND SURVEYOR

DATE 7/14/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 7/14/16
Todd Jorgo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.13.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 7/14/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft

TRANSPORTATION PROJECT PLAT NO: 8680-00-21 - 4.14

THAT PART OF LOT 11, BLOCK 3, BURHAN'S SUBDIVISION OF DIAGRAM LOTS 58, 59, 62 & 63 AND THE SE-SE OF SECTION 14, THAT PART OF THE NE-NE OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:40 PM ON 01-04-2016 AS DOCUMENT # 878594 AND FILED IN Vol 2 pg 4

Cathryn M Salla Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.14
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)
FIRE HYDRANT	
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	40000
TLE POINT	65000
PARCEL NUMBER	8
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
FOUND IRON PIPE/PIN	● (1" UNLESS NOTED)
R/W MONUMENT	○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD	△ ▲ (SET)
SIGN	|SIGN ⊧SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26,26 / 35,35 / 18	

ALIGNMENT DATA
USH 2/BELKNAP STREET

PISTA 182+53.06
Y = 305396.79
X = 151143.10
PISTA 208+33.02
Y = 305377.27
X = 153722.98
DELTA = 23°21'12" Left
D = 06°15'43"
T = 189.10'
L = 372.95'
R = 915.00'
LC = 370.37'
LCB = N 78°45'25" E
PC STA 206+43.92
Y = 305378.70
X = 153533.89
PT STA 210+16.87
Y = 305450.91
X = 153897.15

ALIGNMENT DATA
PINE AVE

POB STA 460+00.00
Y = 305384.92
X = 152711.19
POE STA 462+75.00
Y = 305659.92
X = 152713.25

ALIGNMENT DATA
ELM AVE

POB STA 466+85.07
Y = 305067.54
X = 153040.52
PISTA 470+00.00
Y = 305382.46
X = 153037.25
POE STA 472+50.00
Y = 305632.45
X = 153039.13

N

SE-SE
SEC 14

CITY OF SUPERIOR

NE-NE
SEC 23

SUPERIOR

BLOCK 1 OF STINSON'S SUBDIVISION OF DIAGRAM LOT 64

BLOCK 3 OF BURHAN'S SUBDIVISION OF DIAGRAM LOTS 58, 59, 62 & 63

SOO LINE RAILROAD — RAILROAD R/W — P.L. — EXIST R/W

PINE AVE — 461+00 — N00°25'50"E

ELM AVE — 469+00 — 471+00 — N00°25'49"E

ALLEY

SUPERIOR WATER, LIGHT AND POWER CO.

DOC. 720279 (137) — DOC. 606157 (144) — DOC. 871057 (139) — DOC. 803695 (141) — DOC. 792487 (143)

ALIGNMENT TIES:
223 TO STA 182+53.07 = 0.00'
221 TO STA 208+30.39 = 19.33'

223
FOUND CITY MONUMENT
Y = 305396.79
X = 151143.10

197+00 — S89°34'00"E 2579.95' — 201+00 — S89°34'00"E

STA 198+21.19 USH 2/BELKNAP ST =
STA 460+00.00 PINE AVE

STA 201+47.26 USH 2/BELKNAP ST =
STA 470+00.00 ELM AVE

221
FOUND CITY MONUMENT
Y = 305377.27
X = 153722.97

OF USH 2/BELKNAP STREET

EASEMENT DOC. 539368

(30) CENTURYTEL OF THE MIDWEST - KENDALL, LLC — V. 92 P. 630

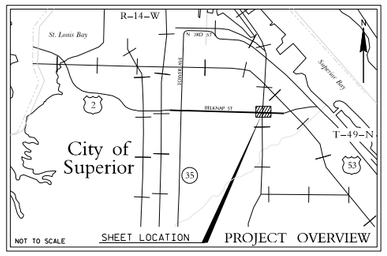
(10) CITY OF SUPERIOR — DOC. 494331

EASEMENT DOC. 649727

MATCH LINE SEE SHEET 8680-00-21-4.13

(20) SUPERIOR WATER, LIGHT AND POWER CO.

SUPERIOR WATER, LIGHT AND POWER CO.



R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30161	197+86.20	-50.00	305435.19	152676.56
30162	198+56.20	-50.00	305434.66	152746.56
40039	201+02.34	-50.00	305432.80	152992.70
40040	201+12.27	-60.08	305442.80	153002.70
41045	201+02.97	50.00	305332.79	152992.57
41046	201+13.88	59.04	305323.67	153003.41

R/W POINT TABLE - PINE AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30161	460+50.00	-35.00	305435.19	152676.56
30162	460+50.00	35.00	305434.66	152746.56

R/W POINT TABLE - ELM AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
40039	470+50.00	-44.93	305432.80	152992.70
40040	470+60.08	-35.00	305442.80	153002.70
41045	469+50.80	-45.20	305332.79	152992.57
41046	469+41.57	-34.44	305323.67	153003.41

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65229	196+50.00	-60.00
65262	196+78.30	-60.00
65263	196+78.31	-65.72
65264	197+70.32	-66.01
65271	198+56.20	-66.00
65272	198+59.04	-66.00
65274	201+08.40	-56.15
65275	201+09.44	-57.20
65276	201+09.43	-85.83
65277	201+12.27	-85.83
65303	198+94.10	-54.50
65304	198+94.05	-55.75
67275	197+80.00	60.07
67276	197+80.00	84.73
67277	201+04.55	83.51
67296	196+50.00	60.00

TLE POINT TABLE - PINE AVE		
POINT	STATION	OFFSET
65264	460+66.01	-50.88
65265	461+71.46	-51.58
65266	461+71.58	-35.00
65267	461+75.00	35.00
65268	461+75.00	44.42
65269	461+65.00	44.26
65270	461+65.00	35.00
65271	460+66.00	35.00
65272	460+66.00	37.84

TLE POINT TABLE - ELM AVE		
POINT	STATION	OFFSET
65274	470+56.16	-38.86
65275	470+57.20	-37.83
65276	470+85.83	-37.83
65277	470+85.83	-35.00
65278	471+42.38	-35.00
65279	471+42.33	-41.55
65280	471+75.00	-41.80
65281	471+75.00	-35.00
65282	471+95.00	-35.00
65283	471+95.00	-41.95
65284	472+14.99	-42.11
65285	472+15.03	-35.00
67277	469+17.27	-44.21
67278	468+79.64	-43.85
67279	468+79.68	-36.84
67280	468+03.01	-35.88
67281	468+02.79	-44.15
67282	466+86.90	-43.43
67283	466+86.76	-32.02

COURSE TABLE		
COURSE	BEARING	DISTANCE
221-90063	N 89°34'00" W	685.74
90063-90152	S 00°35'44" E	76.66
90152-41046	N 62°42'34" W	38.97
41046-41045	N 49°56'28" W	14.17
41045-90142	N 89°34'00" W	452.97
90142-90151	N 00°26'00" E	50.00
90151-90139	N 00°26'00" E	50.00
90139-30161	S 89°33'58" E	136.20
30161-90154	S 89°34'00" E	35.00
90154-30162	S 89°34'00" E	35.00
30162-40039	S 89°34'00" E	246.14
40039-40040	N 45°00'00" E	14.14
40040-90155	S 89°26'32" E	35.00
90155-90063	S 00°25'49" W	60.00
223-90151	S 89°34'00" E	1396.93

UTILITY EASEMENT INFORMATION		
PARCEL 146	CITY OF SUPERIOR	DOC 539368
	WISCONSIN BELL, INC.	DOC 649727

UTILITY INTERESTS REQUIRED			
UTILITY #	OWNERS	INTEREST REQUIRED	PARCEL NUMBER
10	CITY OF SUPERIOR	RELEASE OF RIGHTS	146
20	SUPERIOR WATER, LIGHT AND POWER COMPANY	RELEASE OF RIGHTS	131
30	CENTURYTEL OF THE MIDWEST - KENDALL, LLC	RELEASE OF RIGHTS	146

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ. FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
131	SOO LINE RAILROAD COMPANY	TLE	0.00	0.00	0.00	565.59
137	SUPERIOR-DOUGLAS COUNTY CHAMBER OF COMMERCE	TLE	0.00	0.00	0.00	3426.04
139	LARSON INVESTMENTS, LLC	TLE	0.00	0.00	0.00	403.58
141	EDE PROPERTYS, LLC	TLE	0.00	0.00	0.00	888.17
143	DANIEL W. AND JULIE F. BLAKE	FEE & TLE	50.00	0.00	50.00	576.79
144	RANDY J. TERRY	TLE	0.00	0.00	0.00	140.66
146	PORT ENTERPRISES, INC.	FEE & TLE	48.21	0.00	48.21	14263.94

SCALE, FEET
0 50 100

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.14 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN JOHN T. MUELLER 2454 CHIPPEWA FALLS, WI LAND SURVEYOR

DATE 1/4/16
John T. Mueller

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/4/16
Todd Jurigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.14.dgn
PLOT DATE : 12/29/2015
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 8680-00-21 - 4.15

THAT PART OF LOTS 11 AND 20, BLOCK 2, BURHAN'S SUBDIVISION OF DIAGRAM LOTS 58, 59, 62 & 63 AND THE SE-SE OF SECTION 14, THAT PART OF THE NE-NE OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:15 P.M. ON 01-26-2016 AS DOCUMENT # 879012 AND FILED IN Vol 2 pg 16

Pat VanValen, Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.15
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, OR TOWN LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
PROPOSED REFERENCE LINE
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
EASEMENT LINE
CORPORATE LIMITS
EXISTING CENTERLINE
LOT & TIE LINES
UTILITIES — FO (TYPE)
(TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)
FIRE HYDRANT
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
HIGHWAY EASEMENT
R/W BOUNDARY POINT 40000
TLE POINT 65000
PARCEL NUMBER 8
SIGN NUMBER (OFF PREMISE) 21-1
BUILDING
FOUND IRON PIPE/PIN ● LS (2 " UNLESS NOTED)
R/W MONUMENT ○ ● (FOR ILLUSTRATIVE PURPOSES ONLY, NO MONUMENT SET IN FIELD)
R/W STANDARD △ ▲ (SET)
SIGN | SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26 26 / 35 35 / 18	

ALIGNMENT DATA USH 2/BELKNAP STREET
PISTA 182+53.06
Y = 305396.79
X = 151143.10
PISTA 208+33.02
Y = 305377.27
X = 153722.98
DELTA = 23°2112" Left
D = 06°15'43"
T = 189.10'
L = 372.95'
R = 915.00'
LC = 370.37'
LCB = N 78°45'25" E
PC STA 206+43.92
Y = 305378.70
X = 153533.89
PT STA 210+16.87
Y = 305450.91
X = 153897.15

ALIGNMENT DATA ELM AVE
POB STA 466+85.07
Y = 305067.54
X = 153040.52
PISTA 470+00.00
Y = 305382.46
X = 153037.25
POE STA 472+50.00
Y = 305632.45
X = 153039.13

ALIGNMENT DATA CEDAR AVE N
POB STA 480+00.00
Y = 305379.99
X = 153363.30
POE STA 482+53.33
Y = 305633.29
X = 153367.20

ALIGNMENT DATA CEDAR AVE S
POB STA 487+50.00
Y = 305129.93
X = 153382.34
POE STA 490+00.00
Y = 305379.88
X = 153377.36

N

CITY OF SUPERIOR

SE-SE SEC 14

SUPERIOR WATER, LIGHT AND POWER CO.

BLOCK 2 OF BURHAN'S SUBDIVISION OF DIAGRAM LOTS 58, 59, 62 & 63

ELM AVE — EXIST R/W — N00°25'49"E — 471+00

CEDAR AVE N — EXIST R/W — N00°25'49"E — 482+00

ALLEY

VACATED ALLEY V. 543 P. 683

DOC. 838895

DOC. 600026

V. 570 P. 639

V. 398 P. 254

V. 398 P. 301

P.I.

65286, 65287, 65288, 65289, 65290, 65291, 65292, 65293, 65294, 65297, 65298, 65299, 65300, 65301, 65302

90155, 90063, 90064, 90065, 90132

40043, 40044, 40045, 40046

147, 148, 149

223
FOUND CITY MONUMENT
Y = 305396.79
X = 151143.10

ALIGNMENT TIES:
223 TO STA 182+53.07 = 0.00'
221 TO STA 208+30.39 = 19.33'

STA 201+47.26 USH 2/BELKNAP ST = STA 470+00.00 ELM AVE

STA 204+73.32 USH 2/BELKNAP ST = STA 480+00.00 CEDAR AVE N

STA 204+87.38 USH 2/BELKNAP ST = STA 490+00.00 CEDAR AVE S

200+00 — 205+00

USH 2/BELKNAP STREET

S89°34'00"E

S89°34'00"E 1894.20'

S89°34'00"E 2579.95'

S89°34'00"E 345.62'

221
FOUND CITY MONUMENT
Y = 305377.27
X = 153722.97

OF

469+00 — ELM AVE — EXIST R/W — N00°35'44"W

488+00 — CEDAR AVE S — EXIST R/W — N01°08'30"W

30' ALLEY

HAYES COURTS "A" AND "B" V. L P. 29

DOC. 653136

DOC. 641454

30196, 30207 (1½")

67287, 67288, 67289, 67290, 67291, 67292, 67293, 67294

151, 152

90152, 90159

SUPERIOR WATER, LIGHT AND POWER CO.

SUPERIOR

SE-SE SEC 14

NE-NE SEC 23

TLE POINT TABLE - ELM AVE		
POINT	STATION	OFFSET
65286	472+20.00	35.00
65287	472+20.00	41.75
65288	471+95.00	41.88
65289	471+95.00	35.00
65290	471+75.00	35.00
65291	471+75.00	41.70
65292	470+55.00	40.94
67285	467+20.54	37.66
67286	467+20.52	47.02
67287	467+42.66	46.61
67288	467+42.58	37.45
67289	468+82.24	36.12
67290	468+81.92	39.07
67291	468+96.32	38.90
67292	469+00.30	69.59
67293	469+00.23	75.95
67294	469+03.62	75.92

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30196	201+84.90	95.00	305287.18	153074.15
30207	204+54.99	95.00	305285.13	153344.24
40043	201+82.27	-59.93	305442.12	153072.70
40044	201+92.34	-50.00	305432.12	153082.70
40045	204+28.91	-50.00	305430.33	153319.25
40046	204+38.33	-60.63	305440.88	153328.76

R/W POINT TABLE - ELM AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30196	469+04.34	35.91	305287.18	153074.15
40043	470+59.92	35.00	305442.12	153072.70
40044	470+50.00	45.08	305432.12	153082.70

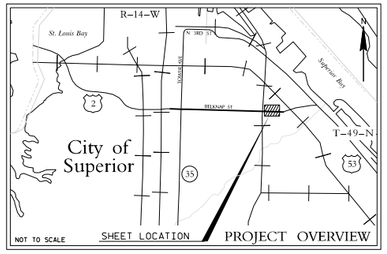
R/W POINT TABLE - CEDAR AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
40045	480+49.65	-44.82	305430.33	153319.25
40046	480+60.35	-35.48	305440.88	153328.76

R/W POINT TABLE - CEDAR AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
30207	489+05.93	-35.00	305285.13	153344.24

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65292	201+88.21	-55.00
65297	203+10.29	-55.57
65298	203+10.25	-60.00
65299	203+55.23	-60.00
65300	203+55.28	-55.07
65301	204+25.74	-55.52
65302	204+38.33	-67.50
67289	201+85.50	117.09
67290	201+88.46	117.35
67291	201+88.03	102.96
67292	202+18.64	98.43
67293	202+25.00	98.39
67294	202+24.91	95.00

TLE POINT TABLE - CEDAR AVE N		
POINT	STATION	OFFSET
65301	480+55.15	-48.03
65302	480+67.22	-35.53

COURSE TABLE		
COURSE	BEARING	DISTANCE
90065-90159	S 01°08'30" E	95.04
90159-30207	N 89°34'00" W	35.01
30207-30196	N 89°34'00" W	270.09
30196-90152	N 62°42'34" W	40.63
90152-90063	N 00°35'44" W	76.66
90063-90155	N 00°25'49" E	60.00
90155-40043	S 89°26'39" E	35.00
40043-40044	S 45°00'00" E	14.14
40044-40045	S 89°34'00" E	236.56
40045-40046	N 41°59'20" E	14.20
40046-90132	N 82°55'45" E	35.82
90132-90064	S 00°52'58" W	65.31
90064-90065	S 89°34'00" E	14.06



UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

SCHEDULE OF LANDS AND INTERESTS REQUIRED			OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT			
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ.FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
147	NANCY ANN GULLO TRUST	TLE	0.00	0.00	0.00	170.48
148	DONALD T. AND MYRNA L. STANSKY	FEE & TLE	50.00	0.00	50.00	975.75
149	METRO CREDIT UNION	FEE & TLE	50.08	0.00	50.08	1318.14
151	TIMOTHY J. AND MARGARET A. KIISKI	TLE	0.00	0.00	0.00	204.48
152	DARREN J. AND KAY M. GORDON	TLE	0.00	0.00	0.00	261.86

SCALE, FEET
0 50 100

NOTES:

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RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

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FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.15 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/25/16
John T. Mueller

WISCONSIN — JOHN T. MUELLER — 2414 — CHIPPEWA FALLS — WI — LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/25/16
Todd Janigo

FILE NAME : F:\Drawings\2012-100\0015\86800001_4.15.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 1/22/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : 1 in : 100 ft

4.15

TRANSPORTATION PROJECT PLAT NO: 8680-00-21 - 4.16

THAT PART OF LOTS 11 THRU 13 AND LOT 22, BLOCK 1, TENNIS AND CATLIN'S DIVISION OF WEST SUPERIOR AND THE SE-SE OF SECTION 14, THAT PART OF THE NE-NE OF SECTION 23 ALL IN T-49-N, R-14-W, CITY OF SUPERIOR, DOUGLAS COUNTY, WISCONSIN

PROJECT DESCRIPTION: USH 2, CITY OF SUPERIOR, BELKNAP STREET (BANKS AVENUE - HILL AVENUE), DOUGLAS COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SUPERIOR DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF SUPERIOR HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SUPERIOR, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Douglas COUNTY, WISCONSIN AT 1:40 P.M. ON 01-04-2016 AS DOCUMENT # 878595 AND FILED IN Vol 2 pg 5

Cathryn M Salus Deputy
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8680-00-21-4.16
AMENDMENT NO:

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)
FIRE HYDRANT	
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	40000
TLE POINT	65000
PARCEL NUMBER	8
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
FOUND IRON PIPE/PIN	● (1" UNLESS NOTED)
R/W MONUMENT	○ ● (FOR ILLUSTRATIVE PURPOSES ONLY. NO MONUMENT SET IN FIELD)
R/W STANDARD	△ ▲ (SET)
SIGN	|SIGN ⊧SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

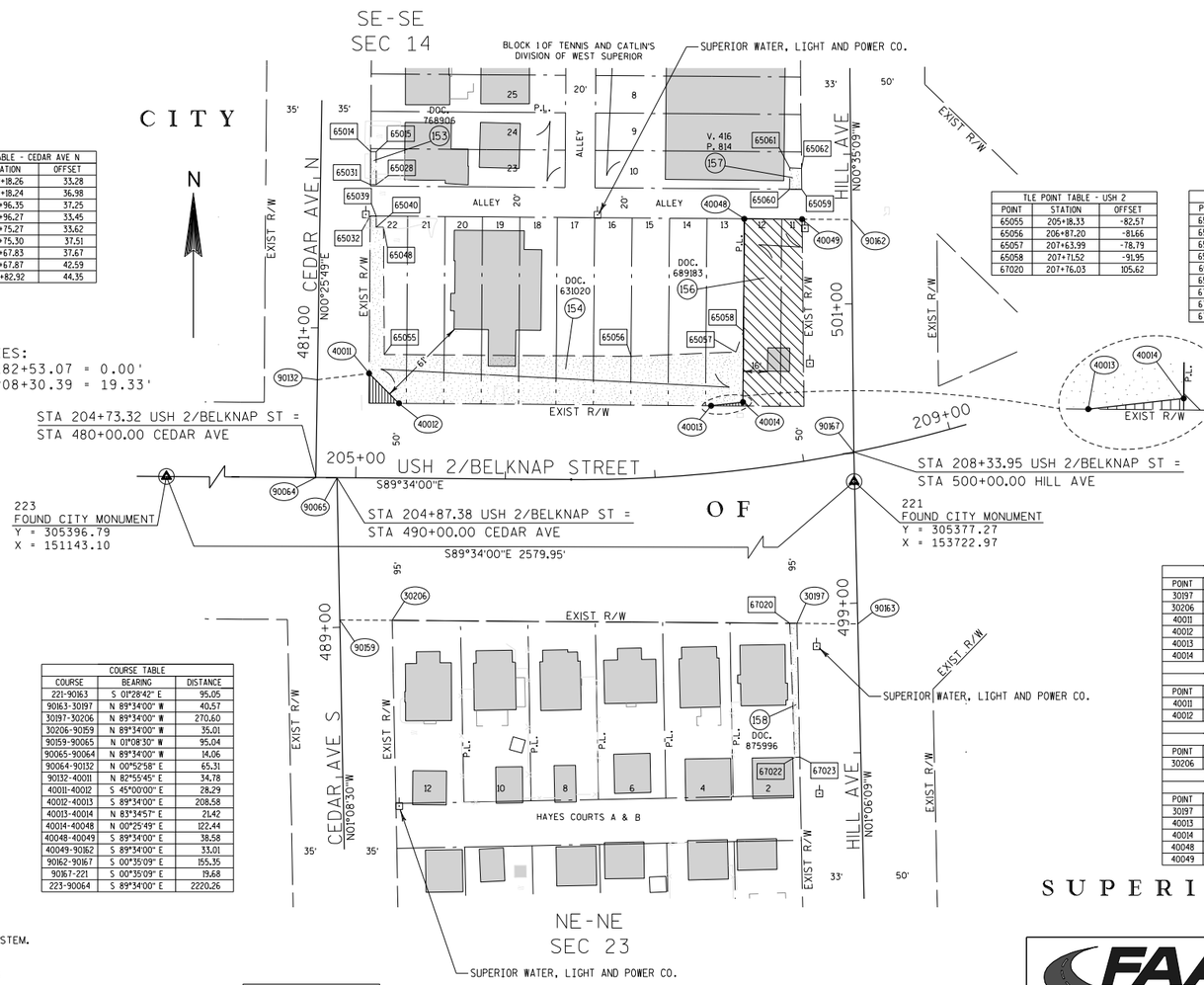
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
GUY POLE		N/A
SECTION CORNER	17 / 26 26 / 35 35 / 18	

ALIGNMENT DATA USH 2/BELKNAP STREET
PI STA 182+53.06
Y = 305396.79
X = 151143.10
PI STA 208+40.88
Y = 305377.21
X = 153730.85
DELTA = 23°47'58"
D = 06°15'43"
T = 192.82'
L = 380.07'
R = 915.00'
LC = 377.34'
LCB = N 78°32'02" E
PC STA 206+48.06
Y = 305378.67
X = 153538.04
PT STA 210+28.13
Y = 305453.68
X = 153907.85

ALIGNMENT DATA CEDAR AVE N
POB STA 480+00.00
Y = 305379.99
X = 153363.30
POE STA 482+53.33
Y = 305633.29
X = 153367.20

ALIGNMENT DATA CEDAR AVE S
POB STA 487+50.00
Y = 305129.93
X = 153382.34
POE STA 490+00.00
Y = 305379.88
X = 153377.36

ALIGNMENT DATA HILL AVE
POB STA 496+18.15
Y = 305014.34
X = 153731.65
PI STA 500+00.00
Y = 305396.09
X = 153722.78
POE STA 503+48.00
Y = 305744.07
X = 153719.23



TLE POINT TABLE - CEDAR AVE N		
POINT	STATION	OFFSET
65014	482+18.26	33.28
65015	482+18.24	36.98
65028	481+96.35	37.25
65031	481+96.27	33.45
65032	481+75.27	33.62
65039	481+75.30	37.51
65040	481+67.83	37.67
65048	481+67.87	42.59
65055	480+82.92	44.35

TLE POINT TABLE - USH 2		
POINT	STATION	OFFSET
65055	205+18.33	-82.57
65056	206+87.20	-81.66
65057	207+63.99	-78.79
65058	207+71.52	-91.95
67020	207+76.03	105.62

TLE POINT TABLE - HILL AVE		
POINT	STATION	OFFSET
65057	500+68.57	-78.14
65058	500+82.44	-72.30
65059	501+76.80	-33.00
65060	501+76.94	-41.21
65061	501+91.19	-40.80
65062	501+90.87	-33.00
67020	498+87.53	-45.40
67022	497+97.95	-44.20
67023	497+98.02	-40.85

COURSE TABLE		
COURSE	BEARING	DISTANCE
221-90163	S 01°28'42" E	95.05
90163-30197	N 89°34'00" W	40.57
30197-30206	N 89°34'00" W	270.60
30206-90159	N 89°34'00" W	35.01
90159-90065	N 01°08'30" W	95.04
90065-90064	N 89°34'00" W	14.06
90064-90132	N 00°52'58" E	65.31
90132-40011	N 82°55'45" E	34.78
40011-40012	S 45°00'00" E	28.29
40012-40013	S 89°34'00" E	208.58
40013-40014	N 83°34'57" E	21.42
40014-40048	N 00°25'49" E	122.44
40048-40049	S 89°34'00" E	38.58
40049-90162	S 89°34'00" E	33.01
90162-90167	S 00°35'09" E	155.35
90167-221	S 00°35'09" E	19.68
223-90064	S 89°34'00" E	2220.26

R/W POINT TABLE - USH 2				
POINT	STATION	OFFSET	NORTHING	EASTING
30197	207+80.33	106.33	305282.56	153684.86
30206	205+25.02	95.00	305284.60	153414.26
40011	205+08.33	-69.85	305449.57	153398.82
40012	205+28.48	-50.00	305429.57	153418.83
40013	207+42.07	-45.00	305427.99	153627.40
40014	207+64.60	-45.00	305430.39	153648.69

R/W POINT TABLE - CEDAR AVE N				
POINT	STATION	OFFSET	NORTHING	EASTING
40011	480+70.12	34.45	305449.57	153398.82
40012	480+50.43	54.76	305429.57	153418.83

R/W POINT TABLE - CEDAR AVE S				
POINT	STATION	OFFSET	NORTHING	EASTING
30206	489+04.00	35.00	305284.60	153414.26

R/W POINT TABLE - HILL AVE				
POINT	STATION	OFFSET	NORTHING	EASTING
30197	498+87.38	-40.55	305282.56	153684.86
40013	500+32.88	-95.05	305427.99	153627.40
40014	500+35.06	-73.74	305430.39	153648.69
40048	501+57.48	-71.57	305552.83	153649.61
40049	501+56.79	-33.00	305552.54	153688.18

UTILITY EASEMENT INFORMATION
NO EASEMENTS ON RECORD

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DOUGLAS COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS WERE NOT SET IN THE FIELD AND ARE SHOWN ON THIS PLAT FOR ILLUSTRATIVE PURPOSES ONLY.

UNDER THE DIRECTION OF THE CITY OF SUPERIOR, THIS PLAT IS REFERENCED TO THE CITY OF SUPERIOR CITY MONUMENTS OR OTHER "SURVEYS OF PUBLIC RECORD", AND NOT TO THE U.S. PUBLIC LAND SURVEY SYSTEM.

THE POINT OF INTERSECTIONS DESIGNATED WITH A 90000 SERIES NUMBER HAVE BEEN CREATED FOR THE PURPOSE OF SHOWING A CLOSED TRAVERSE. THE POINTS ARE INTENDED TO BE ON THE RIGHT-OF-WAY LINES BUT NOT NECESSARILY ON OR ANY PART OF A BOUNDARY, SIXTEENTH, QUARTER OR SECTION (P.L.S.S.) LINE. THESE POINTS WILL NOT BE MONUMENTED IN THE FIELD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 2/BELKNAP STREET AND SIDE ROADS ESTABLISHED FROM CITY OF SUPERIOR MONUMENTAL MAP DATED 1891, MAP OF FOURTH WARD DATED 1929 & WEST SUPERIOR FOURTH DIVISION MAP.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF SUPERIOR.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. SAID CONSTRUCTION PURPOSES INCLUDE LANDSCAPING, DRIVEWAY CONSTRUCTION, SLOPE WORK TO TIE INTO EXISTING SURFACES AND DRAINAGE. ALL TLES EXPIRE UPON COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

SCHEDULE OF LANDS AND INTERESTS REQUIRED			OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT			
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQ.FT. REQUIRED
			NEW	EXISTING H.E.	TOTAL	
153	ZHI TING WU	TLE	0.00	0.00	0.00	82.24
154	WAICHONG WONG	FEE & TLE	200.01	0.00	200.01	8922.28
156	TREELAND TREES, INC.	FEE	4960.91	0.00	4960.91	0.00
157	CHAFFEY NURSING HOME INC. N/K/A VILLA MARINA HEALTH AND REHABILITATION CENTER, INC.	TLE	0.00	0.00	0.00	113.37
158	JOSHUA J. AND BREANNA R. SCHUELLER	TLE	0.00	0.00	0.00	366.51

SCALE, FEET
0 50 100

FAA CONSULTING ENGINEERS
Fleming, Andre & Associates, Inc.
3615 N. Hastings Way • Suite 100
Eau Claire, WI 54703

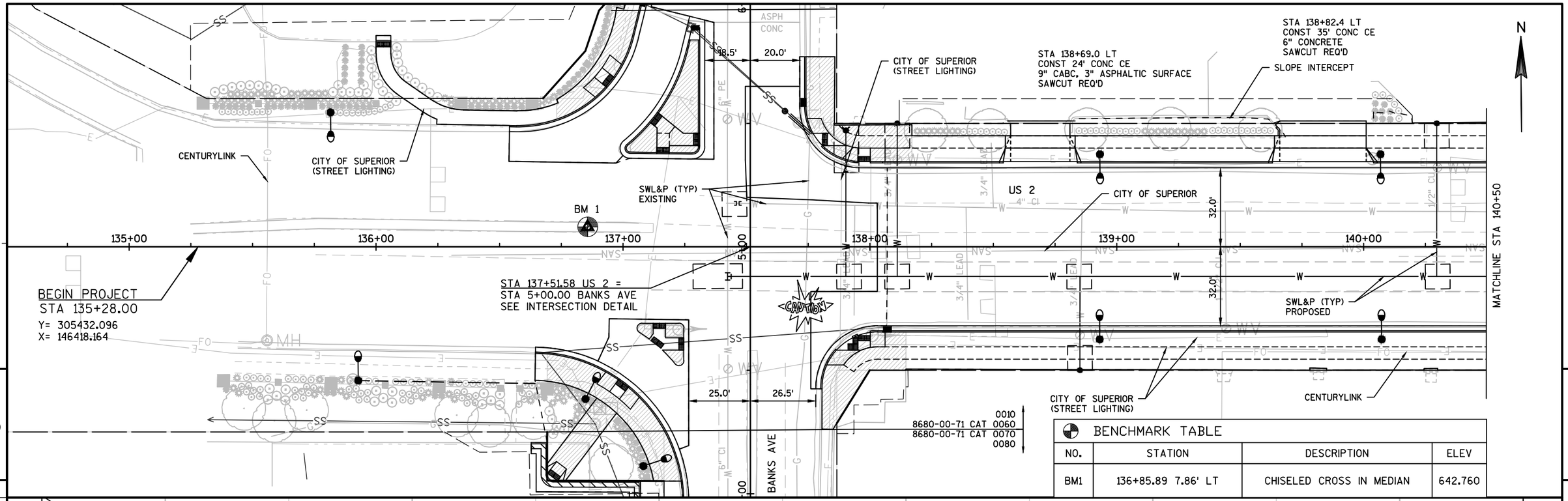
I, JOHN T. MUELLER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF SUPERIOR, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 8680-00-21-4.16 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 1/4/16
John T. Mueller

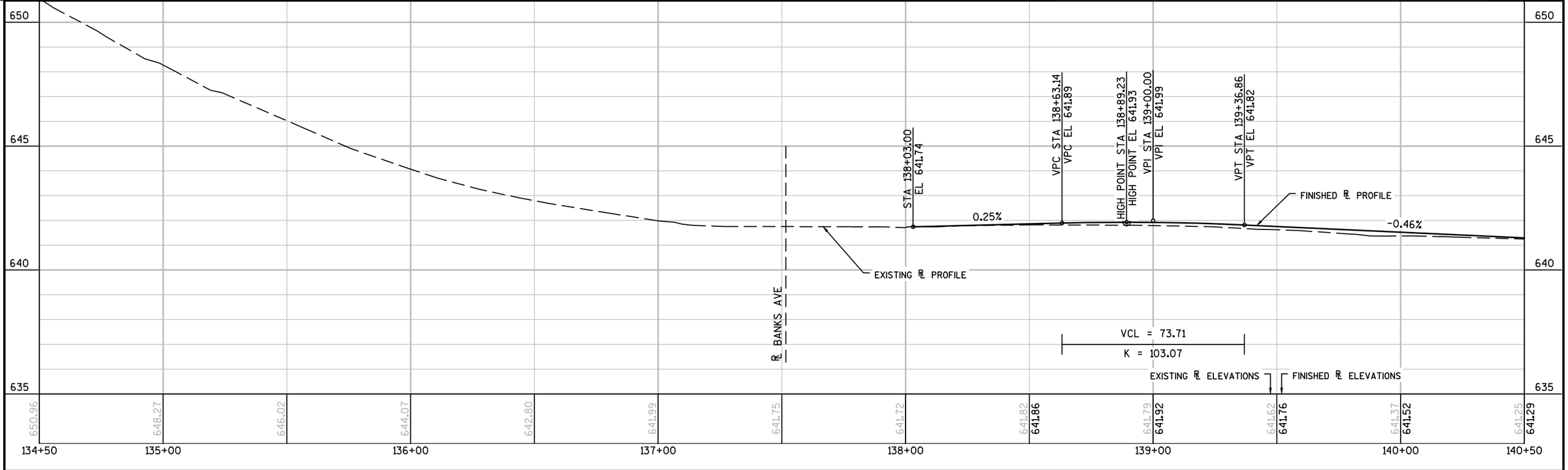
WISCONSIN JOHN T. MUELLER 2654 CHIPPEWA FALLS WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SUPERIOR

DATE 1/4/16
Todd Jorgo



BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEV
BM1	136+85.89 7.86' LT	CHISELED CROSS IN MEDIAN	642.760



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 649	E

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEV
BM2	146+38.75 48.28' RT	SET IR & CAP	641.87

0070
8680-00-71 CAT 0080
8680-00-71 CAT 0010
0060

CITY OF SUPERIOR
(STREET LIGHTING)

SOIL CONTAMINATION
SITE 4
5'-7.5'

SLOPE INTERCEPT

SWL&P (TYP)
EXISTING

SWL&P (TYP)
PROPOSED

US 2

40.0'

32.0'

42.0'

MATCHLINE STA 140+50

MATCHLINE STA 146+50

141+00 142+00 143+00 144+00 145+00 146+00

688+50

688+00

689+00

100+00

STA 141+36.92 US 2 =
STA 688+04.23 TOWER AVE
SEE INTERSECTION DETAIL

STA 145+21.92 US 2 =
STA 100+00.00 OGDEN AVE
SEE INTERSECTION DETAIL

CENTURYLINK

CITY OF SUPERIOR

WINDSTREAM KDL

CITY OF SUPERIOR
(STREET LIGHTING)

CITY OF SUPERIOR

SLOPE INTERCEPT

STA 141+94 RT
REMOVE AND RESET
EXISTING COMPASS

EXISTING SIGN BASE AND SIGN ARCH
TO REMAIN REMOVE AND REPLACE
CONCRETE SIDEWALK TO FACE OF
EXISTING WALL AND AROUND EXISTING
SIGN BASES

INSTALL PEDESTRIAN CURB
STA 142+80-STA 143+03 RT
(BACK OF EXISTING SIDEWALK
TO EXISTING WALL

0010
0060 8680-00-71 CAT
0070 8680-00-71 CAT
0080

BM 2

SOIL CONTAMINATION
SITE 5
0'-13'

TOWER AVE

OGDEN AVE

LEGEND
CONTAMINATED SOIL

N

5

5

VCL = 50.00
K = 64.00

VCL = 75.00
K = 98.33

VCL = 50.00
K = 82.12

VCL = 75.00
K = 86.68

645
640
635
634

STA 140+66.00
EL 641.22

1.03%

STA 141+37.00
EL 641.95

℄ TOWER AVE

-0.47%

VPC STA 141+76.00
VPC EL 641.77

VPI STA 142+01.00
VPI EL 641.65

LOW POINT STA 142+06.00
LOW POINT EL 641.70

0.31%

VPT STA 142+26.00
VPT EL 641.73

VPC STA 142+40.00
VPC EL 641.77

VPI STA 142+65.00
VPI EL 641.85

HIGH POINT STA 142+65.66
HIGH POINT EL 641.81

VPT STA 142+90.00
VPT EL 641.78

SOIL CONTAMINATION
SITE 3
0'-7'

-0.30%

FINISHED ℄ PROFILE

SOIL CONTAMINATION
SITE 4
5'-7.5'

VPC STA 145+02.50
VPC EL 641.15

℄ ODGEN AVE

LOW POINT STA 145+31.64
LOW POINT EL 641.10

SOIL CONTAMINATION
SITE 5
0'-13'

EXISTING ℄ PROFILE

0.47%

VPI STA 145+40.00
VPI EL 641.04

VPT STA 145+77.50
VPT EL 641.21

VPC STA 146+27.50
VPC EL 641.44

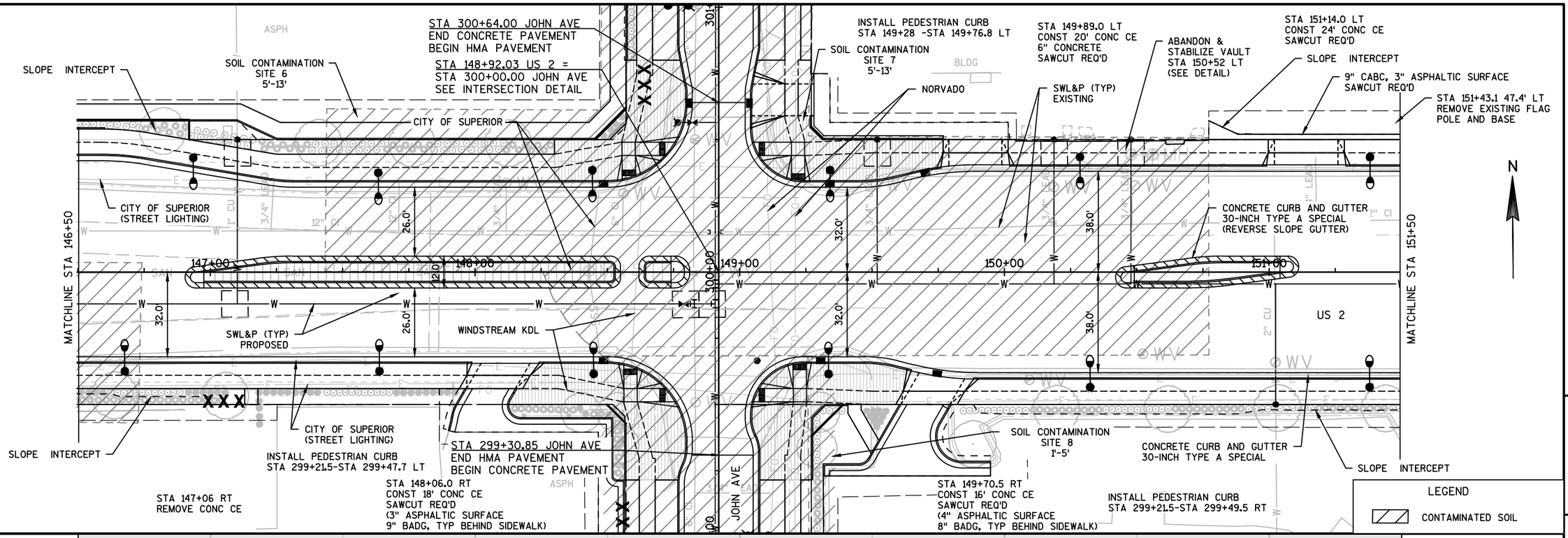
EXISTING ℄ ELEVATIONS

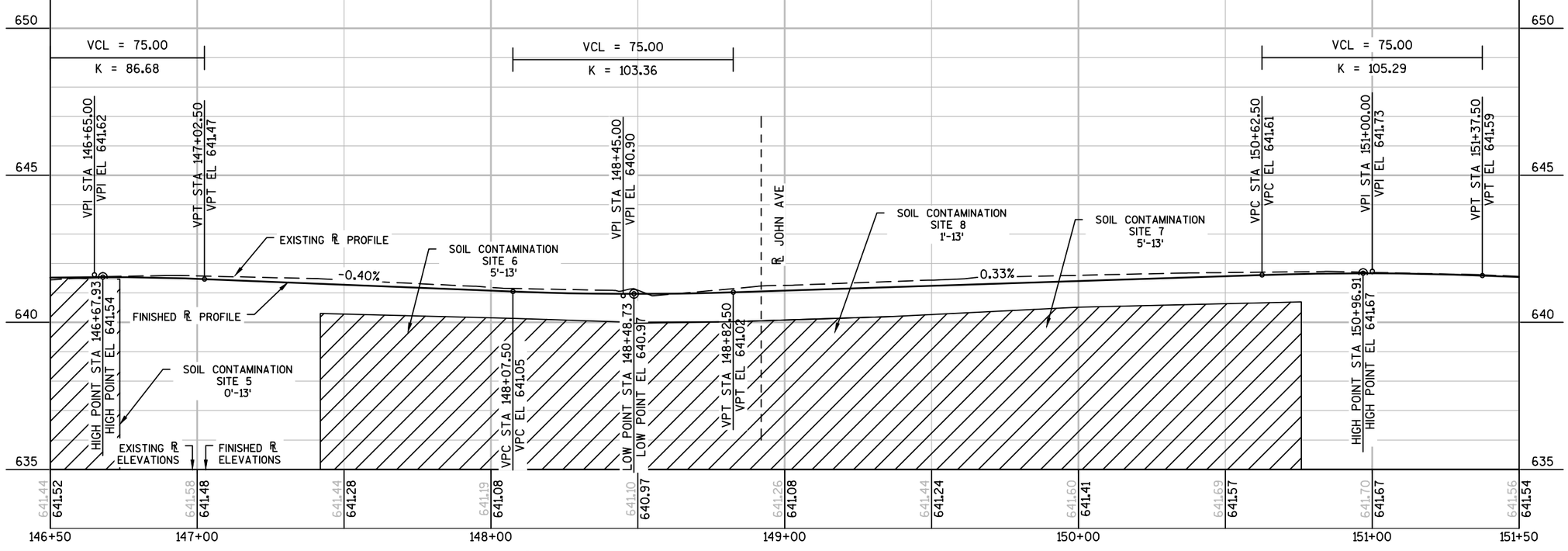
FINISHED ℄ ELEVATIONS

641.25 641.29 641.56 641.57 641.90 641.89 641.73 641.70 641.76 641.80 641.72 641.75 641.66 641.60 641.44 641.45 641.36 641.30 641.18 641.15 641.17 641.12 641.40 641.31 641.44 641.52

140+50 141+00 142+00 143+00 144+00 145+00 146+00 146+50

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 650	E





PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 651	E

LEGEND

CONTAMINATED SOIL

ABANDON & STABILIZE VAULT STA 151+60 LT (SEE DETAIL)

STA 310+53.93 HUGHITT AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 154+87 57' LT
EXISTING FLAG POLE AND BASE TO REMAIN

STA 155+07.2 LT
REMOVE CONC CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

REMOVING RETAINING WALL
INSTALL CONCRETE WALL
STA 155+18.3-STA 155+31.9
STA 155+44.5-STA 155+79.3
STA 155+91.7-STA 156+05.6
(SEE LANDSCAPING PLAN FOR DETAILS)

CITY OF SUPERIOR

BM 3

N

SLOPE INTERCEPT

SWL&P (TYP) EXISTING

STA 152+62.05 US 2 =
STA 310+00.00 HUGHITT AVE
SEE INTERSECTION DETAIL

CITY OF SUPERIOR (STREET LIGHTING)

SWL&P

CAN

MATCHLINE STA 151+50

MATCHLINE STA 157+50

US 2

152+00 153+00 154+00 155+00 156+00 157+00

310+00 330+00

38.0' 32.0'

SWL&P (TYP) PROPOSED

SOIL CONTAMINATION SITE 10 2.5'-10'

SOIL CONTAMINATION SITE 11 10'-13'

SOIL CONTAMINATION SITE 12 10'-13'

STA 156+47.14 US 2 =
STA 330+00.00 HAMMOND AVE
SEE INTERSECTION DETAIL

CAUTION

STA 309+46.00 HUGHITT AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 309+21 LT
REMOVE CONC CE
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

HUGHITT AVE

SLOPE INTERCEPT

CITY OF SUPERIOR (STREET LIGHTING)

STA 329+14.96 HAMMOND AVE
END 9" CONCRETE PAVEMENT
BEGIN 10" CONCRETE PAVEMENT

HAMMOND AVE

0010
8680-00-71 CAT 0060
8680-00-71 CAT 0070
0080

STA 309+16.5 RT
CONST 24' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 154+44.0 RT
CONST 16' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 155+08.0 RT
CONST 16' CONC CE

0010
8680-00-71 CAT 0060
8998-00-24 CAT 0010

5

5

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEV
BM 3	157+37.88 59.85' LT	SET IP & CAP	640.179

℄ HUGHITT AVE

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

-0.39%

-0.37%

STA 156+00.00
EL 639.81

℄ HAMMOND AVE

SOIL CONTAMINATION SITE 10 2.5'-10'

SOIL CONTAMINATION SITE 11,12 10'-13'

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

645 640 635 630

641.56 641.54 641.43 641.35 641.37 641.15 641.37 640.96 641.27 640.77 641.10 640.58 640.76 640.38 640.41 640.19 640.17 640.00 639.94 639.81 639.78 639.62 639.52 639.44 639.21 639.26

151+50 152+00 153+00 154+00 155+00 156+00 157+00 157+50

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 652	E

EXISTING FLAG POLE TO REMAIN
REPLACE SIDEWALK AROUND BASE

8680-00-71 CAT 0070 0080
8680-00-71 CAT 0010 0060

SLOPE INTERCEPT

STA 340+54.00 CUMMING AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 161+22.6 LT
CONST 24' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SOIL CONTAMINATION
SITE 17
2'-13'

SLOPE INTERCEPT

CAN

CITY OF SUPERIOR
(STREET LIGHTING)

SWL&P (TYP)
EXISTING

MATCHLINE STA 157+50

158+00 159+00 160+00 161+00 162+00 163+00

US 2

STA 160+32.28 US 2 =
STA 340+00.00 CUMMING AVE
SEE INTERSECTION DETAIL

CENTURYLINK

CITY OF SUPERIOR
(STREET LIGHTING)

CAN

SWL&P (TYP)
PROPOSED

MATCHLINE STA 163+50

SLOPE INTERCEPT

STA 158+34.0 RT
CONST 16' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 339+46.01 CUMMING AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

CUMMING AVE

SLOPE INTERCEPT

STA 161+46.0 RT
CONST 24' CONC CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

STA 162+77.5 RT
CONST 24' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

LEGEND
CONTAMINATED SOIL

N

5

5

VPC STA 158+97.50
VPC EL 638.71

VPI STA 159+35.00
VPI EL 638.58

VPT STA 159+72.50
VPT EL 638.34

VCL = 75.00
K = 232.88

FINISHED ℄ PROFILE

-0.64%

EXISTING ℄ PROFILE

℄ CUMMING AVE

SOIL CONTAMINATION
SITE 17
2'-13'

VPC STA 161+62.50
VPC EL 637.13

VPI STA 162+00.00
VPI EL 636.89

VPT STA 162+37.50
VPT EL 636.78

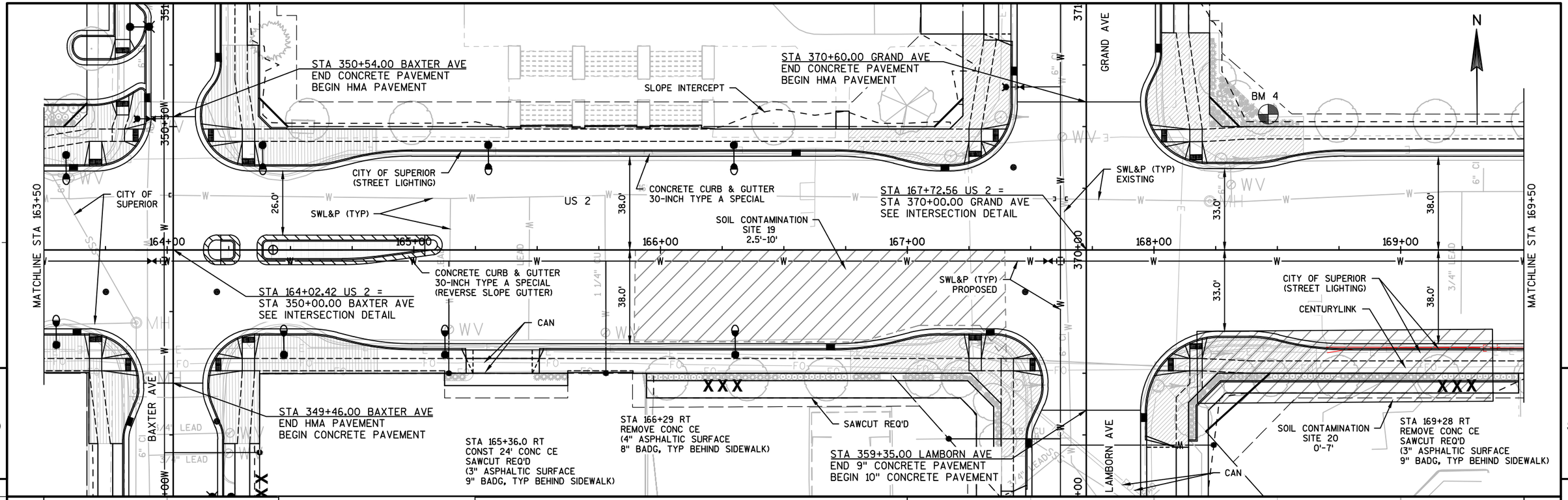
VCL = 75.00
K = 279.30

EXISTING ℄ ELEVATIONS
FINISHED ℄ ELEVATIONS

645 640 635 630

157+50	158+00	159+00	160+00	161+00	162+00	163+00	163+50
639.21 / 639.26	638.98 / 639.07	638.89 / 638.89	638.71 / 638.71	638.42 / 638.47	638.16 / 638.16	637.81 / 637.85	637.48 / 637.53
637.24 / 637.21	637.00 / 636.92	636.76 / 636.74	636.50 / 636.58	636.31 / 636.42			

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 653	E



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 654	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050101_PP.DWG PLOT DATE : 10/24/2016 2:34 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF

LEGEND

CONTAMINATED SOIL

STA 380+60.00 WEEKS AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

WEEKS AVE 381

SLOPE INTERCEPT

CENTURYLINK

CONCRETE CURB & GUTTER
30" TYPE A SPECIAL

STA 172+74.5 LT
CONST 20' CONC CE
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

SAWCUT REQ'D

CONCRETE CURB & GUTTER
30" TYPE D

INSTALL PEDESTRIAN CURB
STA 173+06-STA 173+51
(BACK OF SIDEWALK TO PARKING LOT

SWL&P (TYP)
EXISTING

MATCHLINE STA 169+50

US 2

STA 171+42.70 US 2 =
STA 380+00.00 WEEKS AVE
SEE INTERSECTION DETAIL

CITY OF SUPERIOR
(STREET LIGHTING)

CITY OF SUPERIOR

STA 174+09.82 US 2 =
STA 390+00.00 CLOUGH AVE
SEE INTERSECTION DETAIL

SWL&P (TYP)
EXISTING

MATCHLINE STA 175+50

CONCRETE CURB & GUTTER
30" TYPE A SPECIAL
(REVERSE SLOPE GUTTER)

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR
(STREET LIGHTING)

SOIL CONTAMINATION
SITE 22
0'-13'

STA 389+40.00 CLOUGH AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 170+01.7 RT
CONST 35' CONC CE
4" ASPHALTIC SURFACE
(8" BADG, TYP
BEHIND SIDEWALK)

CONCRETE CURB & GUTTER
30" TYPE A SPECIAL

STA 172+67.5 RT
CONST 35' CONC CE

0010
8680-00-71 CAT 0060
8680-00-71 CAT 0070
0080

CLOUGH AVE

VCL = 75.00
K = 199.48

VCL = 75.00
K = 88.57

VCL = 75.00
K = 163.06

VCL = 75.00
K = 99.98

VPT STA 169+62.50
VPT EL 634.33

EXISTING ℄ PROFILE

-0.77%

℄ WEEKS AVE

VPC STA 170+62.50
VPC EL 633.56

VPI STA 171+00.00
VPI EL 633.27

VPT STA 171+37.50
VPT EL 633.12

-0.40%

LOW POINT STA 173+97.67
LOW POINT EL 632.16

FINISHED ℄ PROFILE

0.45%

VPC STA 175+22.50
VPC EL 632.63

SOIL CONTAMINATION
SITE 22
0'-13'

VPC STA 173+62.50
VPC EL 632.23

VPT STA 174+00.00
VPI EL 632.08

℄ CLOUGH AVE

VPT STA 174+37.50
VPT EL 632.25

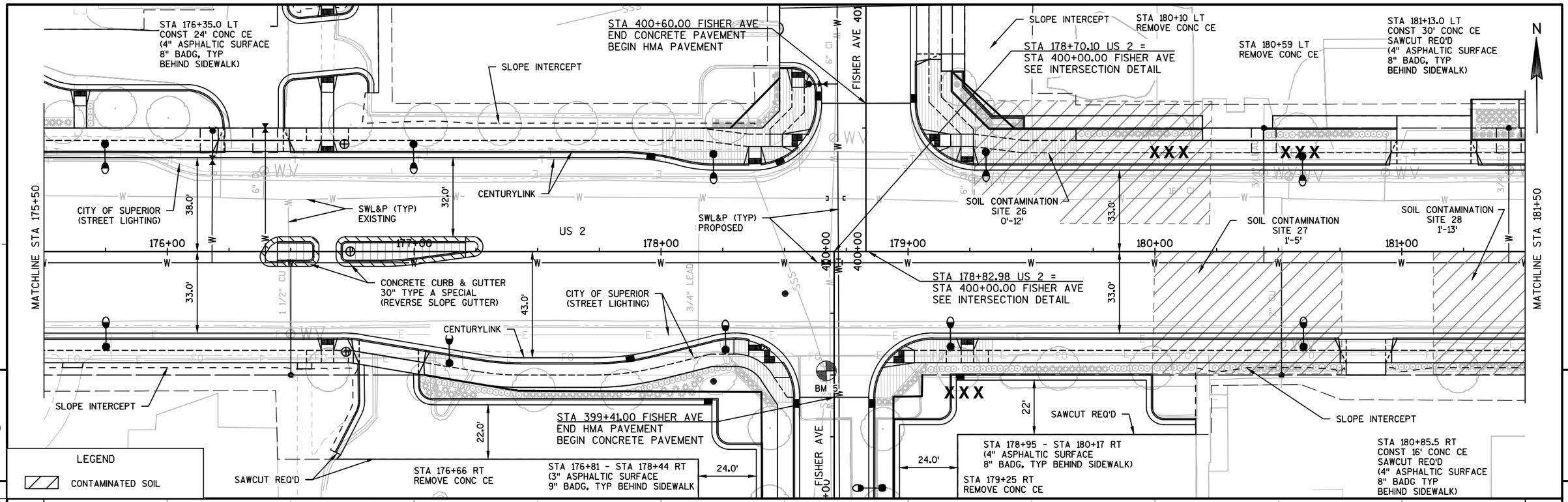
EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

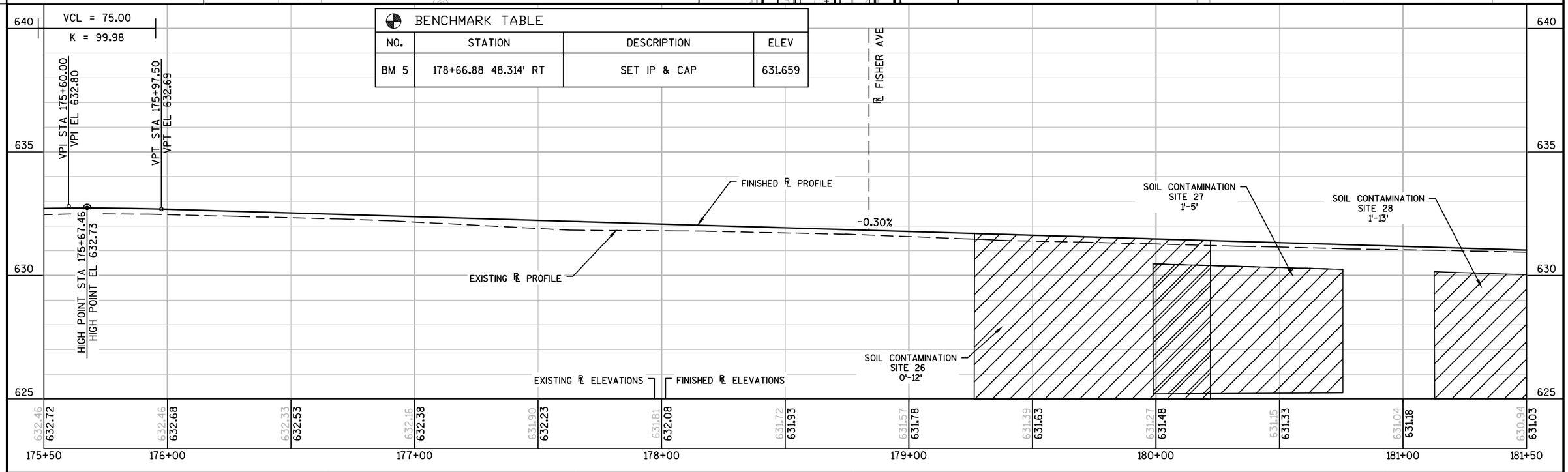
634.44	634.08	633.77	633.49	633.15	632.88	632.65	632.46	632.27	632.09	632.05	632.25	632.46
634.42	634.04	633.66	633.31	633.07	632.87	632.67	632.48	632.28	632.16	632.30	632.53	632.72
169+50	170+00		171+00		172+00		173+00		174+00		175+00	175+50

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 655	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050101_PP.DWG PLOT DATE : 10/24/2016 2:35 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF



BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEV
BM 5	178+66.88 48.314' RT	SET IP & CAP	631.659



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 656	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050101_PP.DWG PLOT DATE : 10/24/2016 2:36 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN = 40FT_XREF_XREF

STA 181+89 LT
REMOVE CONC CE

CATLIN AVE

STA 410+60.00 CATLIN AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 184+38.5 LT
CONST 30' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

CENTURYLINK

SLOPE INTERCEPT

BIRCH AVE

0070
8680-00-71 CAT 0080
8680-00-71 CAT 0010
0060

STA 420+60.00 BIRCH AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

N

STA 187+43.1 LT
CONST 28.5' CONC CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

MATCHLINE STA 181+50

CITY OF SUPERIOR

SWL&P (TYP)
PROPOSED

ENVENTIS TELECOM

CENTURYLINK

CITY OF SUPERIOR
(STREET LIGHTING)

SWL&P (TYP)
EXISTING

CITY OF SUPERIOR

CONCRETE CURB & GUTTER
30-INCH TYPE A SPECIAL
(REVERSE SLOPE GUTTER)

27.0'

182+00 | 183+00 | 184+00 | 185+00 | 186+00 | 187+00

US 2

410+00

420+00

STA 182+53.07 US 2 =
STA 410+00.00 CATLIN AVE
SEE INTERSECTION DETAIL

STA 185+79.14 US 2 =
STA 420+00.00 BIRCH AVE
SEE INTERSECTION DETAIL

CITY OF SUPERIOR
(STREET LIGHTING)

27.0'

CITY OF SUPERIOR

MATCHLINE STA 187+50

PACKERLAND

SLOPE INTERCEPT

CENTURYLINK

SOIL CONTAMINATION
SITE 28
1'-13'

UW-SUPERIOR

CATLIN AVE

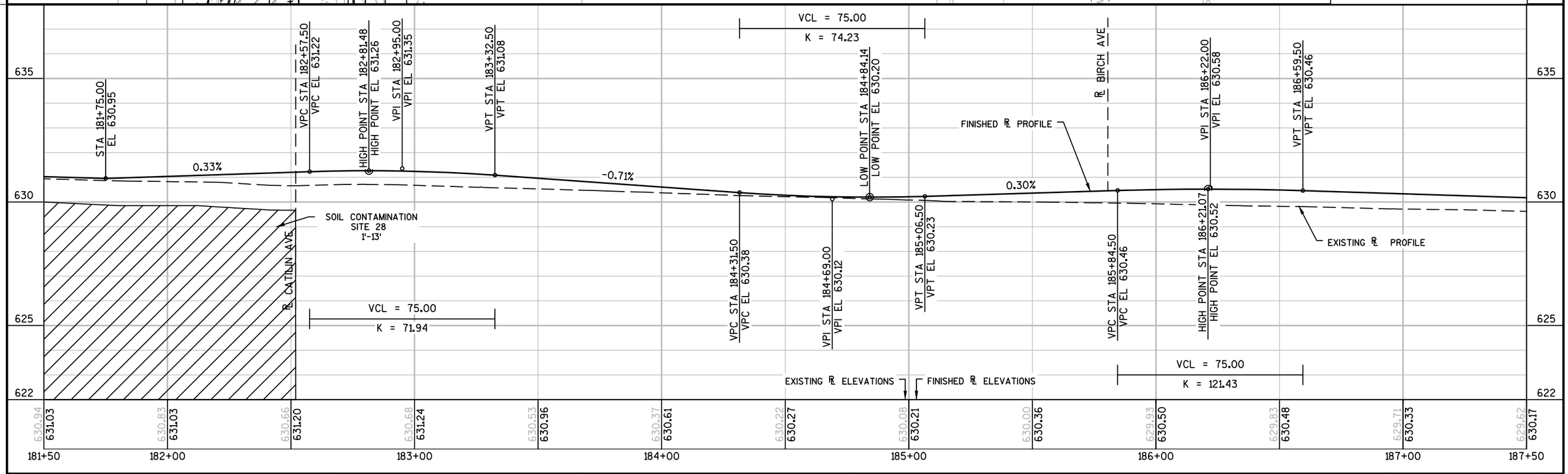
ENVENTIS TELECOM

STA 409+40.00 CATLIN AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 183+83 RT
REMOVE CONC CE

STA 184+88.5 RT
CONST 16' CONC CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" CABC)

LEGEND
CONTAMINATED SOIL



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 657	E

0070
8680-00-71 CAT 0080
8680-00-71 CAT 0010
0060

CYPRESS AVE 431

STA 430+59.94 CYPRESS AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 189+84 LT
REMOVE CONC CE

STA 190+43.0 LT
CONST 24' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

INSTALL CONCRETE WALL
STA 190+76-STA 191+39 LT
SEE LANDSCAPING PLAN
FOR DETAILS

INSTALL PEDESTIRAN CURB
STA 450+69-STA 451+25 LT

POPLAR AVE 451

STA 192+35 LT
REMOVE CONC CE

STA 450+60.00 POPLAR AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 193+37.5 LT
CONST 35' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

N

SLOPE INTERCEPT

SOIL CONTAMINATION
SITE 33
0'-5'

SWL&P

CAUTION

CENTURYLINK

CITY OF SUPERIOR
(STREET LIGHTING)

SWL&P

SWL&P (TYP)
EXISTING

CENTURYLINK

CONCRETE CURB & GUTTER
30" TYPE A SPECIAL

CENTURYLINK

MATCHLINE STA 187+50

188+00 | 189+00 | 190+00 | US 2 | 191+00 | 192+00 | 193+00

MATCHLINE STA 193+50

STA 188+74.10 US 2 =
STA 430+00.00 CYPRESS AVE
SEE INTERSECTION DETAIL

STA 189+14.97 US 2 =
STA 440+00.00 MORTORELLI MEMORIAL DR
SEE INTERSECTION DETAIL

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR

CHARTER
SWL&P

STA 191+69.71 US 2 =
STA 450+00.00 POPLAR AVE
SEE INTERSECTION DETAIL

PACKERLAND

SWL&P

CENTURYLINK

CITY OF SUPERIOR
(STREET LIGHTING)

BM 6

MORTORELLI
MEMORIAL DR
440+00

STA 189+96 RT
REMOVE CONC CE

STA 439+36.00 MORTORELLI DR
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 190+98.5 RT
CONST 35' CONC CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

CAUTION

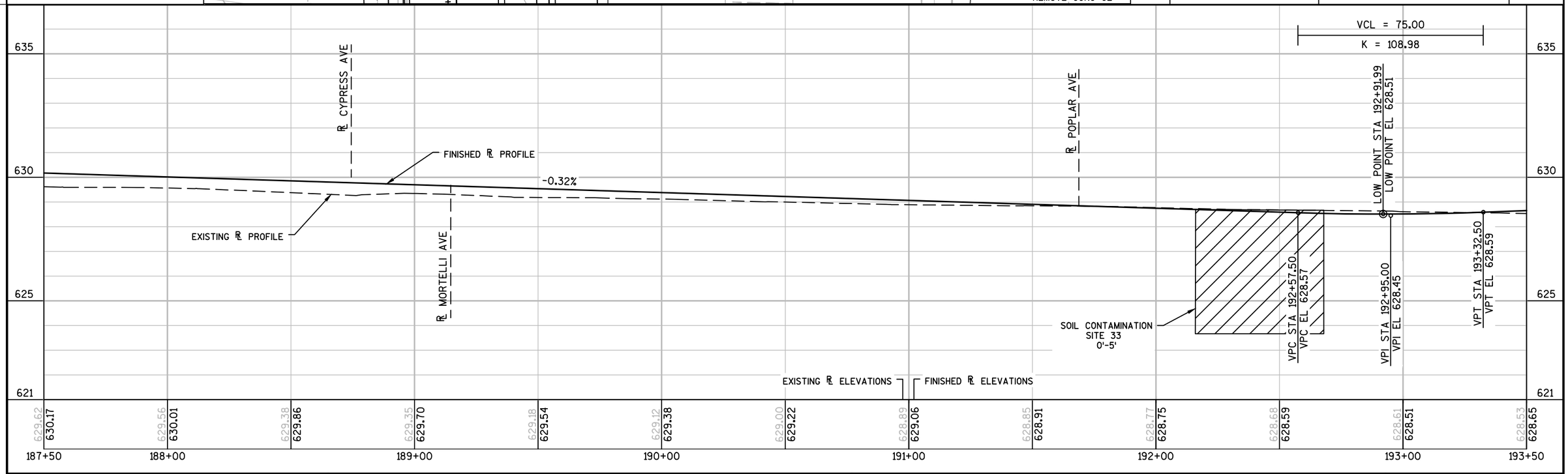
STA 191+52 RT
REMOVE CONC CE

LEGEND

CONTAMINATED SOIL

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEV
BM 6	188+57.01 68.12 RT	SET IR & CAP	629.94



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 658	E

LEGEND

CONTAMINATED SOIL

STA 194+92 LT
REMOVE CONC CE

STA 195+93 LT
REMOVE CONC CE

CONCRETE CURB & GUTTER
30" TYPE D (TYP)

CONCRETE CURB & GUTTER
18" TYPE D SPECIAL
(REVERSE SLOPE GUTTER)

SLOPE INTERCEPT

SWL&P
(TYP)

PINE AVE

STA 460+60.00 PINE AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CITY OF SUPERIOR
STREET LIGHTING

BM 7

MATCHLINE STA 193+50

194+00

US 2

195+00

196+00

197+00

198+00

460+00

199+00

MATCHLINE STA 199+50

SWL&P (TYP)
EXISTING

SWL&P

CENTURYLINK

SWL&P

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR
STREET LIGHTING

CONCRETE CURB & GUTTER
18" TYPE A SPECIAL
(REVERSE SLOPE GUTTER)

CITY OF
SUPERIOR

STA 198+21.20 US 2 =
STA 460+00.00 PINE AVE
SEE INTERSECTION DETAIL

PACKERLAND

CONCRETE CURB & GUTTER
18" TYPE A SPECIAL
(REVERSE SLOPE GUTTER)

CENTURYLINK

SAWCUT REQ'D

TRAFFIC SIGNAL PULL BOX
AND 3-INCH CONDUIT

CANADIAN PACIFIC RAILWAY

SLOPE INTERCEPT

SAWCUT REQ'D

WETLAND AREA

STA 194+46.2 RT
CONST 34' CONC CE
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

STA 196+02 RT
REMOVE CONC CE

STA 196+57 RT
REMOVE CONC CE

STA 198+23 RT
REMOVE CONC CE

STA 199+10.0 RT
CONST 35' CONC CE
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

STA 194+05.5 RT
CONST 35' CONC CE
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

33.0'

33.0'

35.0'

27.0'

27.0'

25

5

5

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEV
BM 7	198+00.71 62.36' LT	SET MAG NAIL	628.030

VPC STA 195+48.84
VPC EL 629.39

VPI STA 195+86.34
VPI EL 629.53

VPT STA 196+23.84
VPT EL 629.50

VPI STA 196+71.09
VPI EL 629.46

VPT STA 197+08.59
VPT EL 629.27

℄ PINE AVE

VCL = 75.00
K = 93.88

635

630

625

620

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

0.37%

-0.08%

-0.50%

HIGH POINT STA 196+10.21
HIGH POINT EL 629.50

VPC STA 196+33.59
VPC EL 629.49

VPC STA 198+47.50
VPC EL 628.57

VPI STA 198+85.00
VPI EL 628.38

LOW POINT STA 198+94.71
LOW POINT EL 628.45

VPT STA 199+22.50
VPT EL 628.50

VCL = 75.00
K = 165.08

VCL = 75.00
K = 178.47

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

628.53	628.65	628.54	628.84	628.57	629.02	628.67	629.21	628.84	629.39	629.38	629.50	629.43	629.47	628.89	629.31	628.73	629.06	628.54	628.81	628.39	628.56	628.44	628.46	628.70	628.58

193+50 194+00 195+00 196+00 197+00 198+00 199+00 199+50

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 659	E

LEGEND

CONTAMINATED SOIL

STA 199+96.0 LT
CONST 18' CONC CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

STA 470+70.00 ELM AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

ELM AVE

CENTURYLINK

STA 203+33.0 LT
CONST 24' CONC CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

STA 480+60.00 CEDAR AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CEDAR AVE

SAWCUT REQ'D

N

MATCHLINE STA 199+50

CITY OF SUPERIOR
(STREET LIGHTING)

STA 201+44.27 US 2 =
STA 470+00.00 ELM AVE
SEE INTERSECTION DETAIL

200+00 201+00 202+00 US 2 203+00 204+00 205+00

SWL&P (TYP
EXISTING)

STA 204+75.33 US 2 =
STA 480+00.00 CEDAR AVE
SEE INTERSECTION DETAIL

MATCHLINE STA 205+50

STA 201+46.27 US 2 =
STA 470+00.00 ELM AVE
SEE INTERSECTION DETAIL

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR
(STREET LIGHTING)

CITY OF SUPERIOR

PACKERLAND

33.0'

33.0'

27.0'

5.0'

BM 8

A HAYES CT

19.0'

END CONSTRUCTION
STA 510+95.00
SAWCUT REQ'D

25.0'

STA 200+13 RT
REMOVE CONC CE

STA 469+41.00 ELM AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

SAWCUT REQ'D

CONCRETE CURB & GUTTER
30" TYPE D

STA 204+88.1 RT
CLOSE CEDAR AVE CONNECTION
SOUTH OF BELKNAP STREET

2.0'

SAWCUT REQ'D

5

5

635

630

625

620

℄ ELM AVE

℄ CEDAR AVE

EXISTING ℄ PROFILE

0.30%

FINISHED ℄ PROFILE

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

199+50	200+00	201+00	202+00	203+00	204+00	205+00	205+50
628.70	628.91	629.07	629.13	629.45	629.53	629.80	629.89	630.04	630.22	630.41	630.46	630.54
628.58	628.72	628.87	629.02	629.17	629.32	629.46	629.61	629.76	629.91	630.06	630.20	630.35

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 660	E

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEV
BM 8	208+95.80 66.68' RT	SET IR & CAP	630.945

STA 206+43 LT
REMOVE CONC CE
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

SAWCUT REQ'D

CALUMET SUPERIOR LLC

SOIL CONTAMINATION
SITE 36
3'-10'

HILL AVE

STA 500+65.05 HILL AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

8680-00-71 CAT 0070
8680-00-71 CAT 0080
8680-00-71 CAT 0010
0060

STA 208+34.03 US 2 =
STA 500+00.00 HILL AVE
SEE INTERSECTION DETAIL

MATCHLINE STA 205+50

SWL&P (TYP)

CENTURYLINK

CONCRETE CURB & GUTTER
30" TYPE A SPECIAL
(REVERSE SLOPE GUTTER)

CITY OF SUPERIOR
(STREET LIGHTING)

CITY OF SUPERIOR

SWL&P

US 2

CAUTION

SWL&P (TYP)
PROPOSED

SWL&P (TYP)
EXISTING

PACKERLAND

STA 208+34.26 US 2 =
STA 500+00.00 HILL AVE
SEE INTERSECTION DETAIL

ONE-WAY

END PROJECT
STA 210+18.00
MATCH EXSITING
SAWCUT REQ'D

BM 8

LEGEND

CONTAMINATED SOIL

VPC STA 206+87.50
VPC EL 630.76

VPI STA 207+25.00
VPI EL 630.87

VPT STA 207+62.50
VPT EL 630.75

℄ HILL AVE

VPC STA 208+87.50
VPC EL 630.36

VPI STA 209+25.00
VPI EL 630.24

VPT STA 209+62.50
VPT EL 630.02

STA 210+18.00
EL 629.70

HIGH POINT STA 207+23.92
HIGH POINT EL 630.81

-0.31%

-0.58%

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

SOIL CONTAMINATION
SITE 36
3'-10'

VCL = 75.00
K = 123.05

VCL = 75.00
K = 276.30

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

630.54	630.59	630.61	630.80	630.83	630.87	630.71	630.50	630.18	629.80	629.51	629.25	628.95
630.35	630.50	630.65	630.79	630.79	630.64	630.48	630.32	630.09	629.81			

635 630 625 622

205+50 206+00 207+00 208+00 209+00 210+00 211+00 211+50

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: US 2 - BELKNAP STREET	SHEET 661	E

LEGEND

HAZARDOUS MATERIAL

STA 298+18.0 LT
CONSTRUCT 24' ALLEY
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

STA 299+07 LT
REMOVE CONC CE

STA 300+73 LT
REMOVE CONC CE

STA 301+80.0 LT
CONSTRUCT 30' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SWL&P

WINDSTREAM KDL

SWL&P (TYP)
EXISTING

SWL&P (TYP)
PROPOSED

STA 299+30.85 JOHN AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

SOIL CONTAMINATION
SITE 6
0'-13'

SLOPE INTERCEPT

WINDSTREAM KDL

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

CENTURYLINK

US 2

8680-00-71 CAT 0060 0070 0080

8680-00-71 CAT 0010

N

297+00 298+00 299+00 300+00 301+00 302+00 303+00

13.0'

JOHN AVE

ONE-WAY

CAUTION

STA 148+92.03 US 2 =
STA 300+00.00 JOHN AVE
SEE INTERSECTION DETAIL

BEGIN CONSTRUCTION
STA 297+72.00
MATCH EXISTING
SAWCUT REQ'D

CITY OF SUPERIOR

CONCRETE CURB &
GUTTER 30-INCH
TYPE D

SAWCUT REQ'D

NORVADO

STA 298+24.5 RT
CONSTRUCT 35' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

INSTALL PEDESTRIAN CURB
STA 299+21.5 35.5' RT JOHN AVE
STA 299+49.5 48.7' RT JOHN AVE

STA 300+64.00 JOHN AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

SWL&P

CENTURYLINK

CITY OF SUPERIOR

SLOPE INTERCEPT

STA 301+85.5 RT
CONSTRUCT 16' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND
SIDEWALK)

STA 300+71 LT
REMOVE CONC CE

INSTALL PEDESTRIAN CURB
STA 149+27.0 59.0' RT US 2
STA 149+76.8 50.5' RT US 2

END CONSTRUCTION
STA 302+16.50
MATCH EXISTING
SAWCUT REQ'D

5

5

VCL = 40.00
K = 44.45

K = 32.57
VCL = 40.00

VCL = 40.00
K = 43.81

645
640
635
633

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

℄ US 2 AVE

SOIL CONTAMINATION
SITE 5
0'-13'

STA 297+70.00
EL 640.48

VPC STA 297+80.03
VPC EL 640.35

VPI STA 298+00.03
VPI EL 640.09

VPT STA 298+20.03
VPT EL 640.01

VPC STA 298+66.93
VPC EL 639.82

VPI STA 298+86.93
VPI EL 639.74

LOW POINT STA 298+79.95
LOW POINT EL 639.80

VPT STA 299+06.93
VPT EL 639.91

STA 299+57.78
EL 640.33

STA 299+94.00
EL 641.05

STA 300+00.00
EL 641.05

STA 300+06.00
EL 641.05

STA 300+40.06
EL 640.37

VPC STA 301+29.85
VPC EL 639.91

LOW POINT STA 301+52.19
LOW POINT EL 639.86

VPT STA 301+69.85
VPT EL 639.89

STA 302+16.50
EL 640.08

1.30% -0.40% 0.83% 2.00% 0.00% -2.00% -0.51% 0.40%

EXISTING ℄ ELEVATIONS: 640.79 640.53 640.34 640.14

FINISHED ℄ ELEVATIONS: 640.49 639.89 640.54 639.86 640.68 640.26 641.23 641.05 640.68 640.32 640.81 640.07 640.55 639.86 640.27 640.01 639.95 639.71

297+00 298+00 299+00 300+00 301+00 302+00 303+00

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: JOHN AVENUE	SHEET 662	E

LEGEND

HAZARDOUS MATERIAL

INSTALL PEDESTRIAN CURB
STA 309+31.0 34.5' LT HUGHITT AVE
STA 309+49.5 42.7' LT HUGHITT AVE

STA 308+17.5 LT
CONSTRUCT 35' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 309+16 LT
REMOVE CONC CE

SWL&P

CITY OF SUPERIOR

CHARTER

CAUTION

STA 309+46.00 HUGHITT AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

SLOPE INTERCEPT

US 2

HUGHITT AVE

STA 311+85.0 LT
CONSTRUCT 16' CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SWL&P

CENTURYLINK

CHARTER

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

SWL&P (TYP) EXISTING

SWL&P (TYP) PROPOSED

8680-00-71 CAT 0010 0060 0070 0080

BEGIN CONSTRUCTION
STA 307+80.00
MATCH EXISTING
SAWCUT REQ'D

STA 308+10.0 RT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" CABC)

SOIL CONTAMINATION SITE 10
2.5'-10'

STA 308+58.0 RT
CONSTRUCT 12' PE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" CABC)

STA 309+16.5 RT
CONSTRUCT 24' CE
SAWCUT REQ'D

STA 310+53.93 HUGHITT AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 152+62.05 US 2 =
STA 310+00.00 HUGHITT AVE
SEE INTERSECTION DETAIL

STA 311+92.5 RT
CONSTRUCT 28' CE/ALLEY
SAWCUT REQ'D

END CONSTRUCTION
STA 312+19.50
MATCH EXISTING
SAWCUT REQ'D

307+00 308+00 309+00 310+00 311+00 312+00 313+00

152+00 153+00

5 5

VCL = 20.00 K = 16.64
VCL = 20.00 K = 10.53
VCL = 20.00 K = 7.90
VCL = 20.00 K = 9.51
VCL = 20.00 K = 14.18
VCL = 43.00 K = 35.74
VCL = 52.00 K = 15.56

FINISHED ℄ PROFILE
EXISTING ℄ PROFILE

-0.40% 0.80% -0.4 1.50% 2.00% -2.00% -1.00% 1.53% -1.81% -0.40% 1.71%

STA 307+80.00 EL 639.80
VPC STA 308+00.00 VPC EL 639.72
VPI STA 308+10.00 VPI EL 639.68
VPT STA 308+20.00 VPT EL 639.76
LOW POINT STA 308+06.66 LOW POINT EL 639.71
VPC STA 308+78.50 VPC EL 640.23
VPI STA 309+00.00 VPI EL 640.40
VPT STA 309+21.50 VPT EL 640.31
LOW POINT STA 309+31.62 LOW POINT EL 640.28
STA 309+68.00 EL 640.71
STA 309+94.00 EL 641.23
HIGH POINT STA 309+07.16 HIGH POINT EL 640.34
VPC STA 309+27.40 VPC EL 640.29
VPI STA 309+37.40 VPI EL 640.25
VPT STA 309+47.40 VPT EL 640.40
STA 310+32.00 EL 640.47
VPC STA 310+50.06 VPC EL 640.29
VPI STA 310+60.06 VPI EL 640.19
VPT STA 310+70.06 VPT EL 640.34
LOW POINT STA 310+57.96 LOW POINT EL 640.25
VPC STA 310+74.00 VPC EL 640.40
HIGH POINT STA 310+97.85 HIGH POINT EL 640.58
VPI STA 311+00.00 VPI EL 640.80
VPT STA 311+26.00 VPT EL 640.33
VPC STA 311+58.00 VPC EL 639.75
VPI STA 311+68.00 VPI EL 639.57
VPT STA 311+78.00 VPT EL 639.53
LOW POINT STA 311+81.88 LOW POINT EL 639.52
VPC STA 311+88.10 VPC EL 639.49
VPI STA 311+98.10 VPI EL 639.66
VPT STA 312+19.50 VPT EL 640.03

SOIL CONTAMINATION SITE 10
2.5'-10'

℄ US 2 AVE

EXISTING ℄ ELEVATIONS
FINISHED ℄ ELEVATIONS

640.10 639.99 639.83 639.72 639.78 640.00 640.57 640.34 640.44 640.44 641.35 641.11 640.77 640.29 640.78 640.58 640.41 639.90 639.95 639.69 639.98 639.80

645 640 635 632

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: HUGHITT AVENUE	SHEET 663	E

LEGEND

HAZARDOUS MATERIAL

STA 328+09.0 LT
CONSTRUCT 16' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 329+14.96 HAMMOND AVE
END 9" CONCRETE PAVEMENT
BEGIN 10" CONCRETE PAVEMENT

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

SLOPE INTERCEPT

CITY OF SUPERIOR

HAMMOND AVE

SWL&P (TYP) PROPOSED

SWL&P CHARTER

SWL&P

CITY OF SUPERIOR (STREET LIGHTING)

SLOPE INTERCEPT

CAN

BEGIN CONSTRUCTION
STA 327+75.00
MATCH EXISTING
SAWCUT REQ'D

STA 328+15.5 RT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

8998-00-24 CAT 0010
8680-00-71 CAT 0060

8680-00-71 CAT 0010
8680-00-71 CAT 0060
8680-00-71 CAT 0070
8680-00-71 CAT 0080

SLOPE INTERCEPT

CITY OF SUPERIOR (STREET LIGHTING)

SWL&P (TYP) EXISTING

CITY OF SUPERIOR

SLOPE INTERCEPT

CAN

STA 156+47.14 US 2 =
STA 330+00.00 HAMMOND AVE
SEE INTERSECTION DETAIL

END CONSTRUCTION
STA 331+00.00
MATCH EXISTING
SAWCUT REQ'D

N

327+00 328+00 329+00 330+00 331+00 332+00 333

156+00 157+00

US 2

30.0' 34.0' 28.0' 34.0' 29.0'

VCL = 30.00
K = 23.35

VCL = 20.00
K = 5.63

VCL = 20.00
K = 10.69

VCL = 45.00
K = 18.73

VCL = 20.00
K = 16.14

645 640 635 632

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

-0.43% 0.86% -1.55% 2.00% 2.00% -2.00% -1.01% 0.86% -0.38%

STA 327+75.00
EL 638.56

VPC STA 327+85.00
VPC EL 638.52

VPI STA 328+00.00
VPI EL 638.45

VPT STA 328+15.00
VPT EL 638.58

VPC STA 329+02.50
VPC EL 639.33

HIGH POINT STA 329+18.53
HIGH POINT EL 639.40

VPI EL 639.52

VPT STA 329+47.50
VPT EL 639.18

LOW POINT STA 329+56.21
LOW POINT EL 639.11

LOW POINT STA 327+95.01
LOW POINT EL 638.50

VPC STA 329+47.50
VPC EL 639.18

VPI STA 329+57.50
VPI EL 639.02

VPT STA 329+67.50
VPT EL 639.22

LOW POINT STA 329+68.00
EL 639.23

STA 329+94.00
EL 639.75

℄ US 2 AVE

VPC STA 330+32.00
VPC EL 638.99

VPI STA 330+42.00
VPI EL 638.89

VPT STA 330+52.00
VPT EL 638.98

LOW POINT STA 330+42.77
LOW POINT EL 638.94

VPC STA 330+75.00
VPC EL 639.18

VPI STA 330+85.00
VPI EL 639.26

VPT STA 330+95.00
VPT EL 639.23

HIGH POINT STA 330+88.95
HIGH POINT EL 639.24

STA 331+00.00
EL 639.21

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

639.43 638.68 638.48 638.50 638.86 638.88 639.27 639.31 639.27 639.14 639.79 639.63 639.08 638.96 639.21 639.21 639.05 638.84 638.48 638.30

327+00 328+00 329+00 330+00 331+00 332+00 333+00

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: HAMMOND AVENUE	SHEET 664	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 2:49 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF

LEGEND

HAZARDOUS MATERIAL

STA 338+19.0 LT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

CITY OF SUPERIOR
(STREET LIGHTING)

STA 339+46.01 CUMMING AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

SWL&P
CHARTER

SWL&P

SLOPE INTERCEPT

CITY OF SUPERIOR

STA 160+32.28 US 2 =
STA 340+00.00 CUMMING AVE
SEE INTERSECTION DETAIL

CAN

SLOPE INTERCEPT

STA 340+54.00 CUMMING AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

SWL&P (TYP)
PROPOSED

SWL&P (TYP)
EXISTING

18.0'

7.0'

15.0'

29.0'

CITY OF SUPERIOR

N

US 2

160+00

337+00 338+00 339+00 340+00 341+00 342+00 343+00

13.0'

13.0'

24.0'

24.0'

CUMMING AVE

CENTURYLINK

25.0'

18.0'

CUMMING AVE

CAUTION

CAUTION

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

SWL&P

SLOPE INTERCEPT

0070 0080 0010 0060

8680-00-71 CAT 0080
8680-00-71 CAT 0010

CAN

191+00

0010 0060

8680-00-71 CAT 0060
8680-00-71 CAT 0070
8680-00-71 CAT 0080

SWL&P

SLOPE INTERCEPT

SOIL CONTAMINATION
SITE 17
2'-13'

BEGIN CONSTRUCTION
STA 337+75.00
MATCH EXISTING
SAWCUT REQ'D

STA 338+18.0 RT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 341+84.0 RT
CONSTRUCT 18' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

END CONSTRUCTION
STA 342+56.50
MATCH EXISTING
SAWCUT REQ'D

5

5

VCL = 20.00
K = 21.93

VCL = 20.00
K = 19.27

VVCL = 20.00
K = 24.72

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

-0.45% 0.46% 1.50% 2.00% -2.00% -2.00% -1.50% 0.51% -0.30% -0.46%

STA 337+75.00
EL 636.72

VPC STA 338+20.00
VPC EL 636.52
LOW POINT STA 338+29.87
LOW POINT EL 636.50
VPT STA 338+40.00
VPT EL 636.52

VPC STA 339+15.00
VPC EL 636.87

VPI STA 339+25.00
VPI EL 636.91

VPT STA 339+35.00
VPT EL 637.06

STA 339+68.00
EL 637.56

STA 339+94.00
EL 638.08

STA 340+00.00
EL 637.96

STA 340+00.00
EL 637.93

STA 340+32.00
EL 637.29

VPC STA 340+50.00
VPC EL 637.02

LOW POINT STA 340+64.92
LOW POINT EL 636.91

VPI STA 340+60.00
VPI EL 636.87

VPC STA 340+80.00
VPC EL 636.97

VPT STA 340+70.00
VPT EL 636.92

HIGH POINT STA 340+92.58
HIGH POINT EL 637.00

VPI STA 340+90.00
VPI EL 637.02

VPT STA 341+00.00
VPT EL 636.99

STA 341+59.94
EL 636.81

STA 342+56.50
EL 636.37

SOIL CONTAMINATION
SITE 17
2'-13'

645 640 635 630

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

636.46 636.78 636.92 636.61 637.16 636.57 637.53 636.80 637.42 637.29 637.91 637.98 637.30 637.02 637.00 636.99 636.88 636.84 636.64 636.63 636.40 636.40 636.44

337+15 338+00 339+00 340+00 341+00 342+00 343+00

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CUMMING AVENUE	SHEET 665	E

LEGEND

HAZARDOUS MATERIAL

STA 348+18.0 LT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 348+73 LT
REMOVE CONC CE

SWL&P
CHARTER

CITY OF SUPERIOR

8680-00-71 CAT 0070 0080 0010 0060

CAN

SLOPE INTERCEPT

STA 164+02.42 US 2 =
STA 350+00.00 BAXTER AVE
SEE INTERSECTION DETAIL

STA 350+68.8 LT
CONSTRUCT 14' WIDE PE
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)
6" SELECT BORROW
SEE DETAIL

SLOPE INTERCEPT

SWL&P (TYP)
EXISTING

SWL&P (TYP)
PROPOSED

CONCRETE CURB & GUTTER 30-INCH
TYPE D (REVERSE SLOPE GUTTER) (TYP)

N

STA 351+85.0 LT
CONSTRUCT 17' PE/ALLEY
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)
SEE DETAIL

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

347+25 348+00 349+00 350+00 351+00 352+00 353+00

BAXTER AVE

US 2

10.0' +02.78 +37.40 635.22 635.26 635.24 18.0'

10.0' +04.31 +28.94 635.31 635.25 635.16 18.0'

CAUTION

SWL&P

SLOPE INTERCEPT

STA 349+46.00 BAXTER AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 348+98 RT
REMOVE CONC CE

CITY OF SUPERIOR
(STREET LIGHTING)

STA 348+18.0 RT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

CITY OF SUPERIOR
(STREET LIGHTING)

8680-00-71 CAT 0010 0060 0070 0080

SLOPE INTERCEPT

STA 350+54.00 BAXTER AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

INSTALL PEDESTRIAN CURB
STA 350+49.8 46.0' RT
STA 350+83.0 35.0' RT

BEGIN CONSTRUCTION
STA 347+78.50
MATCH EXISTING
SAWCUT REQ'D

END CONSTRUCTION
STA 352+29.00
MATCH EXISTING
SAWCUT REQ'D

5

5

VCL = 20.00
K = 55.11

VCL = 20.00
K = 6.83

VCL = 20.00
K = 44.62

VCL = 60.00
K = 47.69

VCL = 40.00
K = 19.06

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

0.54% 0.72% -0.36% 3.00% 2.00% -2.00% -1.73% 1.20% -0.90% -0.45%

VPC STA 348+60.00 VPC EL 635.78
HIGH POINT STA 348+85.66 HIGH POINT EL 635.85
VPT STA 349+20.00 VPT EL 635.72
STA 349+68.00 EL 635.48
STA 349+82.00 EL 635.90
STA 350+06.00 EL 636.38
STA 350+32.00 EL 635.86
VPI STA 350+65.00 VPI EL 635.29
VPC STA 350+90.00 VPC EL 635.59
HIGH POINT STA 351+12.88 HIGH POINT EL 635.73
VPT STA 351+30.00 VPT EL 635.65
STA 352+29.00 EL 634.96

STA 347+78.50 EL 635.34
VPI STA 348+90.00 VPI EL 635.94
VPC STA 349+30.00 VPC EL 635.65
VPI STA 349+40.00 VPI EL 635.58
VPT STA 349+50.00 VPT EL 635.54
℄ US 2 AVE
VPC STA 350+55.00 VPC EL 635.46
LOW POINT STA 350+66.80 LOW POINT EL 635.36
VPI STA 350+75.00 VPI EL 635.41
VPI STA 351+10.00 VPI EL 635.83
VPC STA 351+75.00 VPC EL 635.25
VPI STA 351+85.00 VPI EL 635.16
VPT STA 351+95.00 VPT EL 635.11

640 635 630 627

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

635.10 635.37 635.44 635.46 635.72 635.72 636.01 635.83 636.00 635.54 636.28 636.26 635.65 635.55 635.65 635.68 635.33 635.47 635.05 635.09 634.78 634.61

347+25 348+00 349+00 350+00 351+00 352+00 352+75

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: BAXTER AVENUE	SHEET 666	E

LEGEND

HAZARDOUS MATERIAL

STA 358+19.5 LT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)
CITY OF SUPERIOR

SLOPE INTERCEPT

8998-00-24 CAT 0010
8680-00-71 CAT 0060

STA 358+88.0 LT
CONSTRUCT 24' CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SWL&P
CHARTER

SWL&P (TYP)
PROPOSED

STA 358+46.25 LAMBORN AVE =
STA 100+00.00 S GRAND AVE
SEE INTERSECTION DETAIL

STA 359+35.00 LAMBORN AVE
END 9" CONCRETE PAVEMENT
BEGIN 10" CONCRETE PAVEMENT

STA 370+60.00 GRAND AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CITY OF SUPERIOR

N

US 2

167+00

168+00

357+00 358+00 359+00 370+50 371+00

LAMBORN AVE

GRAND AVE

SOUTH GRAND AVE

12.0'
13.0'
22.0'
22.0'
100+00

CAUTION

SWL&P (TYP)
EXISTING

SWL&P

CAN

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

STA 359+08.0 RT
CONSTRUCT 24' CE

BEGIN CONSTRUCTION
STA 357+79.00
MATCH EXISTING
SAWCUT REQ'D

SLOPE INTERCEPT

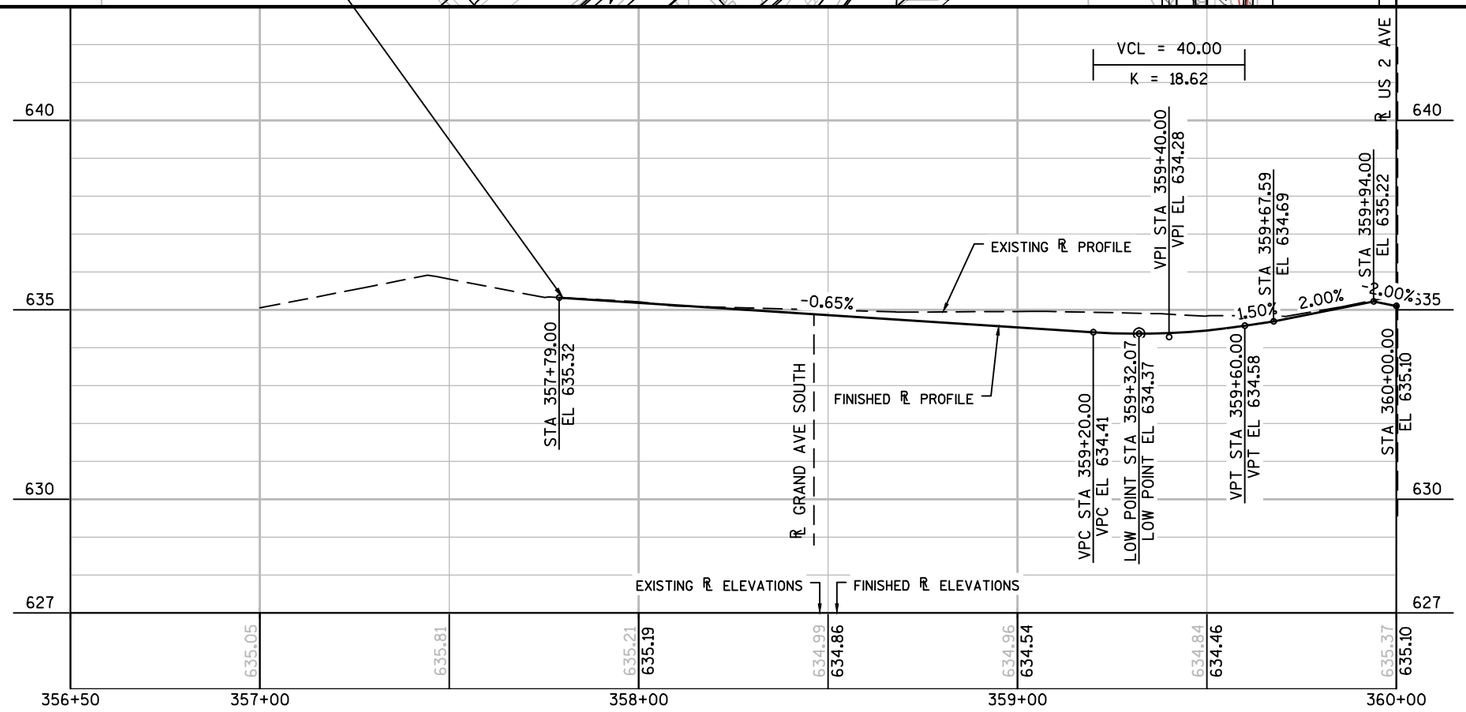
00+101

STA 167+72.56 US 2 =
STA 370+00.00 GRAND AVE
SEE INTERSECTION DETAIL

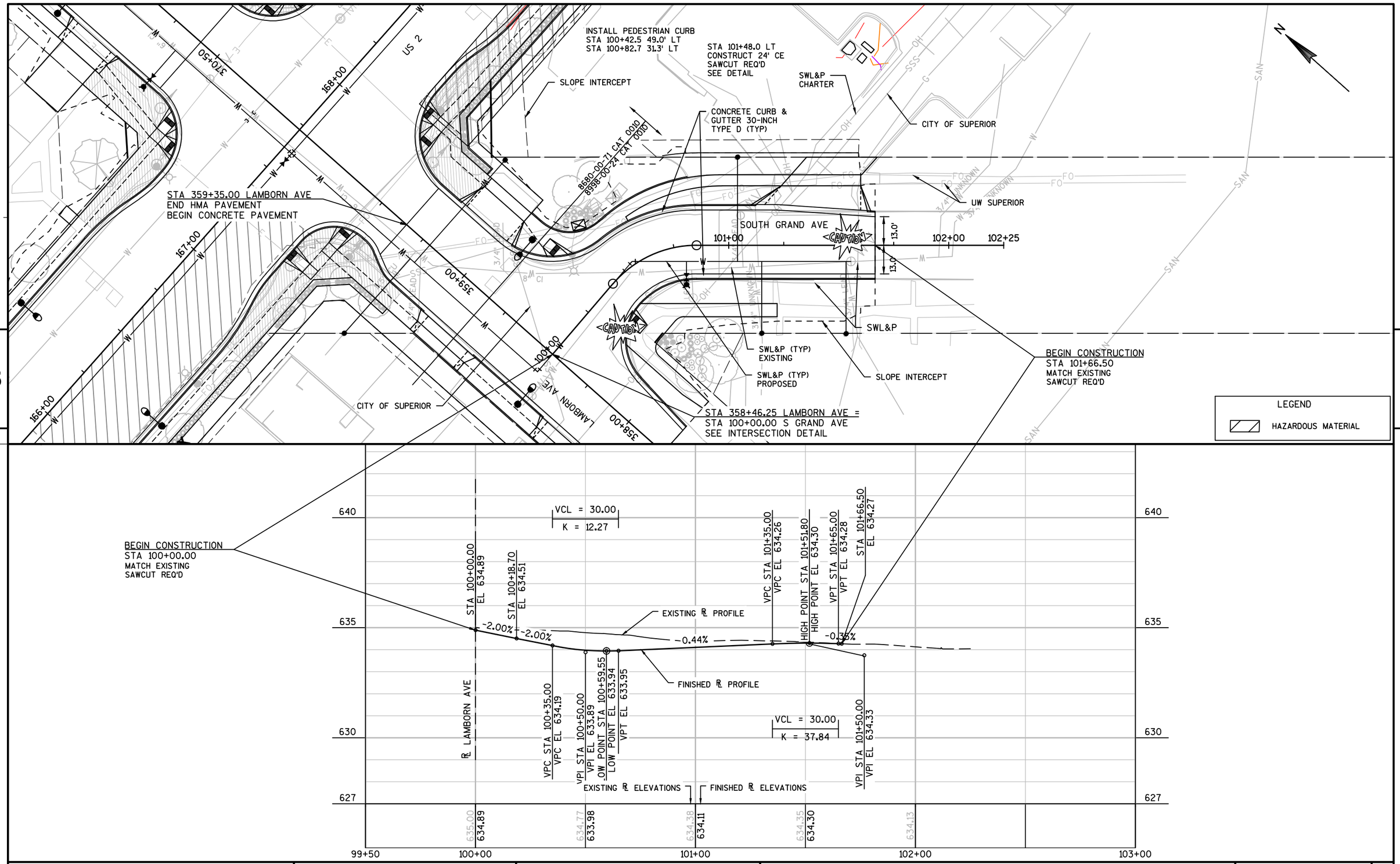
8680-00-71 CAT 0060
8998-00-24 CAT 0010

5

5



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: LAMBORN AVENUE (SOUTH)	SHEET 667	E



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: SOUTH GRAND AVENUE	SHEET 668	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 2:52 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF WISDOT/CADDS SHEET 44

STA 167+72.56 US 2 =
STA 370+00.00 GRAND AVE
SEE INTERSECTION DETAIL

STA 370+97.5 LT
CONSTRUCT 20' CE

STA 370+60.00 GRAND AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CITY OF SUPERIOR
(STREET LIGHTING)

SLOPE INTERCEPT

SWL&P (TYP)
EXISTING

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR
(STREET LIGHTING)

GRAND AVE

STA 359+35.00 LAMBORN AVE
END 9" CONCRETE PAVEMENT
BEGIN 10" CONCRETE PAVEMENT

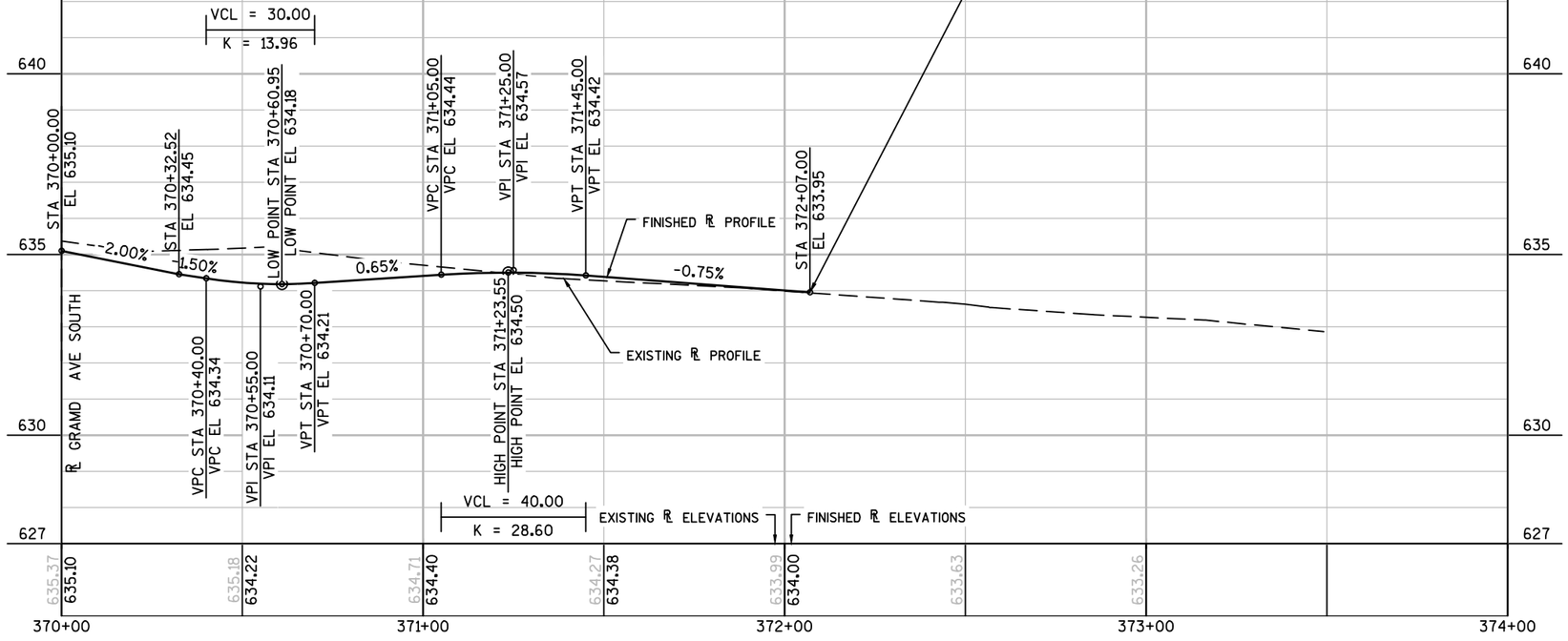
8680-00-71 CAT 0010
8998-00-24 CAT 0010

SLOPE INTERCEPT

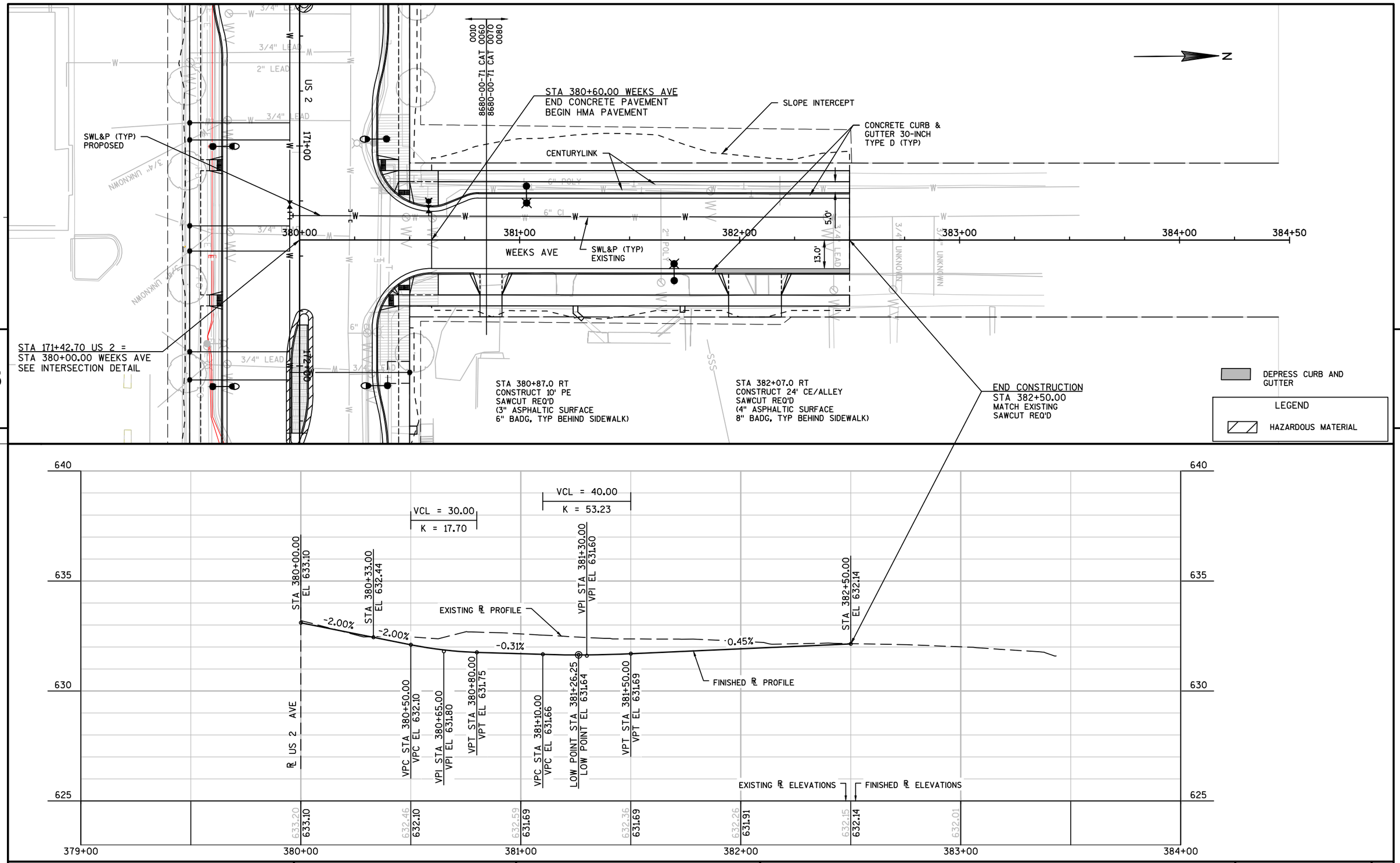
CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

END CONSTRUCTION
STA 372+07.00
MATCH EXISTING
SAWCUT REQ'D

LEGEND
HAZARDOUS MATERIAL



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: GRAND AVENUE (NORTH)	SHEET 669	E



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: WEEKS AVE	SHEET 670	E

LEGEND

HAZARDOUS MATERIAL

STA 388+10.2 LT
CONSTRUCT 24' CE/ALLEY

STA 389+40.00 CLOUGH AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

SOIL CONTAMINATION SITE 22 0'-13'

CITY OF SUPERIOR

SWL&P

SLOPE INTERCEPT

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

387+00

388+00

389+00

CLOUGH AVE

174+00

175+00

US 2

SWL&P (TYP) EXISTING

SWL&P (TYP) PROPOSED

SLOPE INTERCEPT

CAUTION

SWL&P CHARTER

SAWCUT REQ'D

STA 174+09.82 US 2 =
STA 390+00.00 CLOUGH AVE
SEE INTERSECTION DETAIL

BEGIN CONSTRUCTION
STA 387+25.00
MATCH EXISTING
SAWCUT REQ'D

STA 387+70.5 RT
CONSTRUCT 16' CE
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

STA 388+07.0 RT
CONSTRUCT 16' CE
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

8680-00-71 CAT 0070 0080 0010 0060

3/4" LEAD

3/4" UNKNOWN

16" CI

VCL = 20.00
K = 8.51

VPC STA 387+60.00
VPC EL 628.41

VPI STA 387+80.00
VPI EL 628.48

VPC STA 388+65.00
VPC EL 630.84

VPI STA 388+85.00
VPI EL 631.40

VPT STA 389+05.00
VPT EL 631.33

VPC STA 389+30.00
VPC EL 631.24

VPI STA 389+40.00
VPI EL 631.21

STA 389+67.55
EL 631.76

STA 389+94.00
EL 632.29

STA 390+00.00
EL 632.17

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

0.35%

2.78%

-0.35%

2.00%

2.00%

2.00%

STA 387+25.00
EL 628.29

VPT STA 388+00.00
VPT EL 629.03

HIGH POINT STA 389+00.53
HIGH POINT EL 631.34

LOW POINT STA 389+32.98
LOW POINT EL 631.24

VPT STA 389+50.00
VPT EL 631.41

VCL = 40.00
K = 16.45

VCL = 40.00
K = 12.78

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

SOIL CONTAMINATION SITE 22 0'-13'

℄ US 2

635
630
625
623

627.87
628.61 628.37
629.65 629.03
630.59 630.43
631.05 631.34
631.48 631.41
632.08 632.17

386+00
387+00
388+00
389+00
390+00
390+50

PROJECT NO: 8680-00-01	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CLOUGH AVENUE	SHEET 671	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 2:55 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF

WISDOT/CADDS SHEET 44

LEGEND

HAZARDOUS MATERIAL

STA 178+70.10 US 2 =
STA 400+00.00 FISHER AVE
SEE INTERSECTION DETAIL

SWL&P
CHARTER

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR

8680-00-71 CAT 0080
8680-00-71 CAT 0010
8680-00-71 CAT 0060
8680-00-71 CAT 0070

397+75 398+00 399+00 400+00

FISHER AVE

STA 399+41.00 FISHER AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

BEGIN CONSTRUCTION
STA 398+05.00
MATCH EXISTING
SAWCUT REQ'D

CAUTION

SWL&P

STA 178+82.98 US 2 =
STA 400+00.00 FISHER AVE
SEE INTERSECTION DETAIL

STA 400+90.2 LT
CONSTRUCT 27.5' CE

CITY OF SUPERIOR
(STREET LIGHTING)

CITY OF SUPERIOR

SWL&P (TYP)
EXISTING

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

N

CENTURYLINK

400+00 401+00 402+00 403+00

FISHER AVE

STA 400+60.00 FISHER AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

SAWCUT REQ'D

SLOPE INTERCEPT

STA 400+92.0 RT
CONSTRUCT 24' CE
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 401+84.5 RT
CONSTRUCT 18' CE/ALLEY
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

END CONSTRUCTION
STA 402+15.00
MATCH EXISTING
SAWCUT REQ'D

5

5

VCL = 20.00
K = 17.43

VCL = 20.00
K = 11.46

VCL = 20.00
K = 7.79

VCL = 40.00
K = 18.03

VCL = 40.00
K = 30.77

VCL = 40.00
K = 16.77

VPC STA 398+25.00
VPC EL 631.03
VPI STA 398+35.00
VPI EL 631.00

VPC STA 398+70.00
VPC EL 631.29
VPI STA 398+90.00
VPI EL 631.45
HIGH POINT STA 398+95.17
HIGH POINT EL 631.39
VPT STA 399+10.00
VPT EL 631.35

VPC STA 399+35.00
VPC EL 631.23
VPI STA 399+45.00
VPI EL 631.18
STA 399+67.00
EL 631.46
STA 399+94.00
EL 632.00

STA 400+00.00 (N)
EL 631.88
STA 400+32.51
EL 631.19

VPI STA 400+55.00
VPI EL 630.75
VPT STA 400+65.00
VPT EL 630.80

VPC STA 400+80.00
VPC EL 630.89
HIGH POINT STA 400+89.49
HIGH POINT EL 630.91
VPI STA 401+00.00
VPI EL 631.00

VPT STA 401+20.00
VPT EL 630.64

VPI STA 401+55.00
VPI EL 630.00
VPT STA 401+75.00
VPT EL 630.08

STA 398+05.00
EL 631.10

LOW POINT STA 398+30.74
LOW POINT EL 631.02
VPT STA 398+45.00
VPT EL 631.08

LOW POINT STA 399+40.52
LOW POINT EL 631.22
VPT STA 399+55.00
VPT EL 631.31

STA 400+00.00 (S)
EL 631.88

VPC STA 400+45.00
VPC EL 630.95

LOW POINT STA 400+60.59
LOW POINT EL 630.79

VPC STA 401+35.00
VPC EL 630.36

LOW POINT STA 401+67.79
LOW POINT EL 630.07

STA 402+15.00
EL 630.24

-0.33% 0.82% -0.48% 1.26% 2.00% 2.00% -2.00% -2.00% .57% -1.82% -0.40%

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

℄ US 2

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

635 630 625 623

631.26 630.88 631.12 631.13 631.39 631.58 631.26 631.68 631.88 631.38 630.86 631.29 630.88 630.87 630.15 630.37 630.18 630.03 629.76

397+50 398+00 399+00 400+00 401+00 402+00 403+00

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: FISHER AVENUE	SHEET 672	E

STA 408+46.0 LT
CONSTRUCT 24' CE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

8998-00-24 CAT 0010
8680-00-71 CAT 0060

CENTURYLINK

SOIL CONTAMINATION SITE 28 1'-13'

SLOPE INTERCEPT

UW-SUPERIOR

SWL&P

407+50 | 408+00 | 409+00 | 410+00 | 411+00 | 412+00 | 413+00

CATLIN AVE

EVENTIS TELECOM

CAUTION

SLOPE INTERCEPT

CITY OF SUPERIOR

BEGIN CONSTRUCTION
STA 407+83.00
MATCH EXISTING
SAWCUT REQ'D

STA 409+40.00 CATLIN AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 408+17.0 RT
CONSTRUCT 20' CE/ALLEY
SAWCUT CONC REQ'D

STA 182+53.07 US 2 =
STA 410+00.00 CATLIN AVE
SEE INTERSECTION DETAIL

182+00

183+00

US 2

CENTURYLINK

STA 411+11.5 LT
CONSTRUCT 87' CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SWL&P (TYP)
PROPOSED

CITY OF SUPERIOR
(STREET LIGHTING)

STA 411+82.5 LT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SWL&P

SLOPE INTERCEPT

SWL&P (TYP)
EXISTING

CATLIN AVE

SAWCUT REQ'D

EVENTIS TELECOM

CENTURYLINK

CAUTION

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

STA 410+60.00 CATLIN AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 411+10.0 RT
CONSTRUCT 30' CE
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 411+86.5 RT
CONSTRUCT 16' CE/ALLEY
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

8680-00-71 CAT 0060
8898-00-24 CAT 0010

END CONSTRUCTION
STA 412+50.00
MATCH EXISTING
SAWCUT REQ'D

LEGEND
HAZARDOUS MATERIAL
HAZARDOUS MATERIAL

N

5

5

VCL = 40.00
K = 25.02

VCL = 20.00
K = 33.46

VCL = 20.00
K = 9.09

VCL = 40.00
K = 40.13

VCL = 40.00
K = 15.71

VPI STA 408+40.00
VPI EL 630.09

VPI STA 409+35.00
VPI EL 630.47

STA 409+94.00
EL 631.33

STA 410+00.00
EL 631.21

VPI STA 410+60.00
VPI EL 630.28

VPC STA 410+80.00
VPC EL 630.52

HIGH POINT STA 410+98.85
HIGH POINT EL 630.63

VPT STA 411+20.00
VPT EL 630.49

STA 412+50.00
EL 629.49

STA 409+67.00
EL 630.79

STA 410+33.00
EL 630.55

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

-1.20% | 0.40% | 1.00% | 2.00% | 2.00% | -2.00% | -1.00% | 1.20% | -1.35% | -0.35%

STA 407+83.00
EL 630.77

VPC STA 408+20.00
VPC EL 630.33

LOW POINT STA 408+49.94
LOW POINT EL 630.15

VPT STA 408+60.00
VPT EL 630.17

VPC STA 409+25.00
VPC EL 630.43

VPT STA 409+45.00
VPT EL 630.57

SOIL CONTAMINATION SITE 28 1'-13'

VPC STA 410+50.00
VPC EL 630.38

LOW POINT STA 410+59.10
LOW POINT EL 630.33

VPT STA 410+70.00
VPT EL 630.40

VPI STA 411+00.00
VPI EL 630.76

VPC STA 411+55.00
VPC EL 630.02

VPI STA 411+75.00
VPI EL 629.75

VPT STA 411+95.00
VPT EL 629.68

635 | 630 | 625 | 623

631.41 | 630.55 630.57 | 630.17 630.15 | 630.29 630.33 | 630.41 630.62 | 630.66 631.21 | 630.48 630.38 | 630.56 630.63 | 630.21 630.09 | 629.76 629.66 | 629.49 629.49 | 629.09

EXISTING ℄ ELEVATIONS | FINISHED ℄ ELEVATIONS

407+50 | 408+00 | 409+00 | 410+00 | 411+00 | 412+00 | 413+00

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CATLIN AVENUE	SHEET 673	E

LEGEND

HAZARDOUS MATERIAL

CENTURYLINK

STA 420+60.00 BIRCH AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

SLOPE INTERCEPT

SWL&P (TYP)
EXISTING & PROPOSED

STA 421+63.0 LT
CONSTRUCT 12' WIDE PE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

STA 421+85.5 LT
CONSTRUCT 18' WIDE ALLEY
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP
BEHIND SIDEWALK)

N

185+00

US 2

186+00

420+00

421+00

422+00

423+00

424+00

BIRCH AVE

18.0'

16.0'

STA 185+79.14 US 2 =
STA 420+00.00 BIRCH AVE
SEE INTERSECTION DETAIL

CITY OF SUPERIOR

SAWCUT REQ'D

CAUTION

SLOPE INTERCEPT

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

00010 8680-00-71 CAT 0060
00020 8680-00-71 CAT 0070
00030 8680-00-71 CAT 0080

STA 421+32.0 RT
CONSTRUCT 24' PE
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

STA 421+85.5 RT
CONSTRUCT 16' CE/ALLEY
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

CHARTER

SWL&P

END CONSTRUCTION
STA 422+15.00
MATCH EXISTING
SAWCUT REQ'D

VCL = 20.00
K = 8.14

STA 420+00.00
EL 630.45

STA 420+33.00
EL 629.79

EXISTING ℄ PROFILE

VPC STA 420+95.00
VPC EL 629.46

HIGH POINT STA 421+16.31
HIGH POINT EL 629.51

VPT STA 421+35.00
VPT EL 629.47

STA 422+15.00
EL 629.15

-2.00%

-2.00%

0.46%

-0.40%

FINISHED ℄ PROFILE

VPC STA 420+48.00
VPC EL 629.49

VPI STA 420+58.00

LOW POINT STA 420+64.27
LOW POINT EL 629.33
VPI EL 629.35

℄ US 2

VCL = 40.00
K = 46.54

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

635
630
625
622

629.97 630.45
629.73 629.45
629.72 629.48
629.43 629.41
629.20 629.21
628.83
628.52

419+50
420+00
421+00
422+00
423+00
424+00
424+25

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: BIRCH AVENUE	SHEET 674	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 2:57 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF

WISDOT/CADDS SHEET 44

STA 188+74.10 US 2 =
STA 430+00.00 CYPRESS AVE
SEE INTERSECTION DETAIL

8680-00-71 CAT 0010
8680-00-71 CAT 0060
8680-00-71 CAT 0070
8680-00-71 CAT 0080

SWL&P (TYP)
PROPOSED

STA 431+87.00 LT
CONSTRUCT 16' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

SWL&P

SWL&P (TYP)
EXISTING

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

16.0'

24.0'

21.0'

11.0'

17.0'

18.0'

5.0'

CAUTION

CYPRESS AVE

188+00

189+00

430+00

431+00

432+00

433+00

434+00

434+53

440+00

US 2

SWL&P
CHARTER

SWL&P

CENTURYLINK

STA 430+59.94 CYPRESS AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 431+85.00 RT
CONSTRUCT 18' CE/ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

END CONSTRUCTION
STA 432+60.00
MATCH EXISTING
SAWCUT REQ'D

N

LEGEND
HAZARDOUS MATERIAL

5

5

VCL = 40.00
K = 13.54

VCL = 30.00
K = 25.60

VCL = 60.00
K = 32.84

STA 430+00.00
EL 629.78

STA 430+33.00
EL 629.12

VPC STA 430+40.00
VPC EL 628.98

VPI STA 430+60.00
VPI EL 628.58
LOW POINT STA 430+67.08
LOW POINT EL 628.71

VPT STA 430+80.00
VPT EL 628.77

VPC STA 430+85.00
VPC EL 628.82

HIGH POINT STA 431+16.34
HIGH POINT EL 628.97

VPT STA 431+45.00
VPT EL 628.84

VPC STA 431+87.75
VPC EL 628.47

VPI STA 432+02.75
VPI EL 628.27
LOW POINT STA 432+10.08
LOW POINT EL 628.37
VPT STA 432+17.13
VPT EL 628.38

STA 432+60.00
EL 628.51

-2.00%
-2.00%
0.95%
-0.87%
0.30%

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

℄ US 2

EXISTING ℄ ELEVATIONS
FINISHED ℄ ELEVATIONS

629.27	629.78	629.11	628.82	629.32	628.93	628.86	628.80	628.53	628.39	628.51	628.48	628.41

635
630
625
620

429+50
430+00
431+00
432+00
433+00
434+00
434+53

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CYPRESS AVENUE	SHEET 675	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG
PLOT DATE : 10/24/2016 2:58 PM
PLOT BY : NICK ENGH
PLOT NAME :
PLOT SCALE : 77/256" = 1'-0"_XREF

LEGEND

HAZARDOUS MATERIAL

N

STA 439+36.00 MORTORELLI DR
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

8680-00-71 CAT 0070 0080 0010 0060

STA 189+14.97 US 2 =
STA 440+00.00 MORTORELLI MEMORAIL DR
SEE INTERSECTION DETAIL

CITY OF SUPERIOR (STREET LIGHTING)

CYPRESS AVE

MORTORELLI MEMORIAL DRIVE

19'

17'

437+50 438+00 439+00 440+00

PACKERLAND

CITY OF SUPERIOR

SWL&P (TYP) PROPOSED

SWL&P (TYP) EXISTING

SLOPE INTERCEPT

SAWCUT REQ'D

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

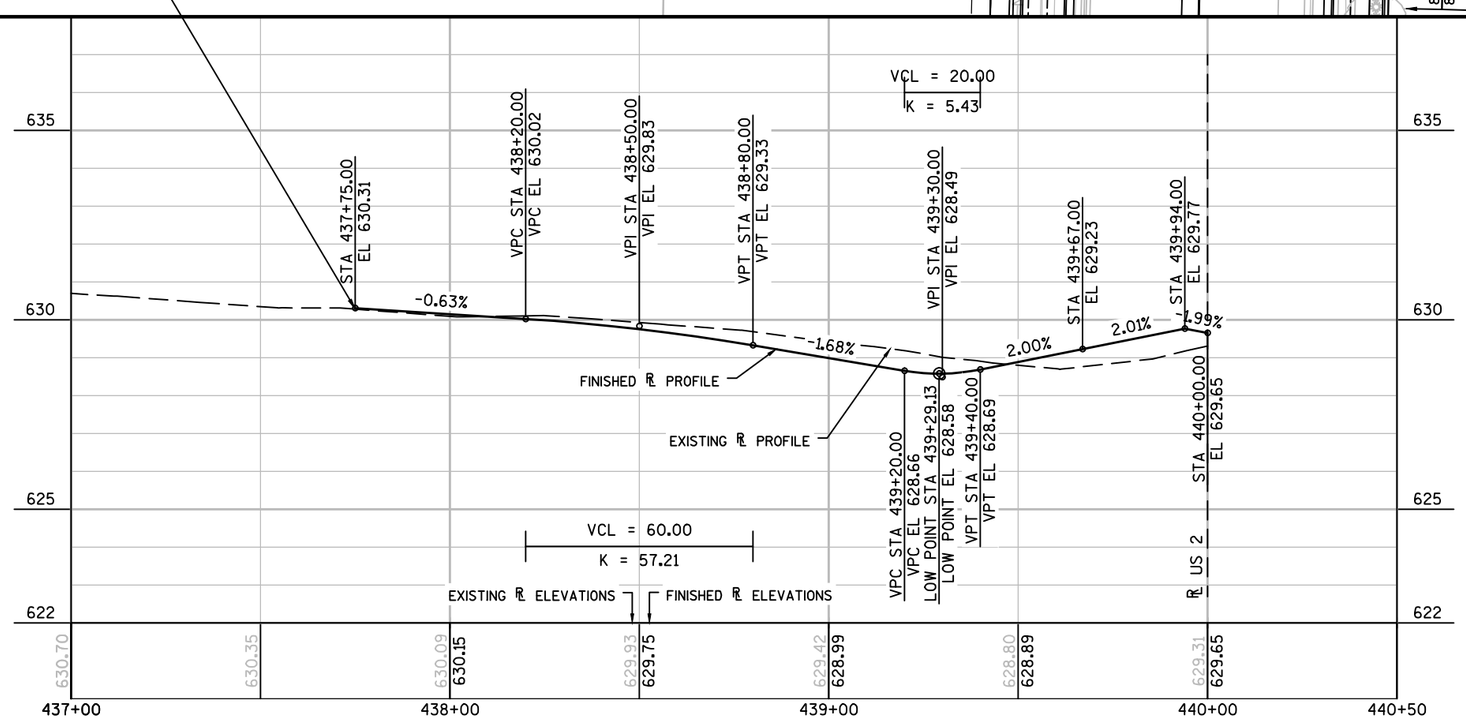
BEGIN CONSTRUCTION
STA 437+75.00
MATCH EXISTING
SAWCUT REQ'D

STA 438+94.00 LT
CONSTRUCT 35' CE
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

8680-00-71 CAT 0010 0060 0070 0080

5

5



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: MERTZ MORTORELLI DRIVE	SHEET 676	E

SLOPE INTERCEPT

SLOPE INTERCEPT

CENTURYLINK

SWL&P (TYP)
EXISTING

STA 451+83.5 LT
CONSTRUCT 18' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP
BEHIND SIDEWALK)

STA 450+60.00 POPLAR AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

N

191+00

US 2

192+00

450+00

451+00

452+00

452+75

POPLAR AVE

19.0'

17.0'

12.0'

13.0'

SWL&P
CHARTER

SWL&P
CHARTER

STA 191+69.71 US 2 =
STA 450+00.00 POPLAR AVE
SEE INTERSECTION DETAIL

SWL&P (TYP)
PROPOSED

PACKERLAND

CENTURYLINK

SLOPE INTERCEPT

SWL&P

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

END CONSTRUCTION
STA 452+37.00
MATCH EXISTING
SAWCUT REQ'D

STA 450+93.0 RT
CONSTRUCT 30' PE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
6" BADG, TYP BEHIND
SIDEWALK)

8680-00-71 CAT 0010
8680-00-71 CAT 0060
8680-00-71 CAT 0070
8680-00-71 CAT 0080

STA 451+60 RT
CONSTRUCT 15' PE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
6" BADG, TYP BEHIND SIDEWALK)

LEGEND
HAZARDOUS MATERIAL

5

5

635

630

625

620

VCL = 20.00
K = 6.26

VCL = 40.00
K = 14.41

STA 450+00.00
EL 628.85

STA 450+33.00
EL 628.19

VPC STA 450+50.00
VPC EL 628.02

VPI STA 450+60.00
VPI EL 627.92

VPC STA 450+80.00
VPC EL 628.36

HIGH POINT STA 451+11.69
HIGH POINT EL 628.71

VPI STA 451+20.00
VPT EL 628.68

STA 452+37.00
EL 628.01

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

-2.00%

-1.00%

2.20%

-0.58%

LOW POINT STA 450+56.25
LOW POINT EL 627.99

VPT STA 450+70.00
VPT EL 628.14

VPI STA 451+00.00
VPI EL 628.80

℄ US 2

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

628.83
628.85
628.30
628.02
628.56
628.66
628.45
628.51
628.16
628.22
627.99
627.83

449+50

450+00

451+00

452+00

452+75

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: POPLAR AVENUE	SHEET 677	E

SWL&P (TYP)
PROPOSED

SLOPE INTERCEPT

CENTURYLINK

STA 461+48.5 LT
CONSTRUCT 18' CE
SAWCUT REQ'D

SWL&P (TYP)
EXISTING

SWL&P

SWL&P
CENTURYLINK

CITY OF SUPERIOR

US 2

198+00

199+00

460+00

461+00

462+00

462+75

24.0'

16.0'

20.0'

CAUTION

CENTURYLINK

PINE AVE

SWL&P

STA 198+21.20 US 2
STA 460+00.00 PINE AVE
SEE INTERSECTIONS DETAIL

STA 460+60.00 PINE AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

END CONSTRUCTION
STA 461+75.00
MATCH EXISTING
SAWCUT REQ'D

SLOPE INTERCEPT

8680-00-71 CAT 0010 0060 0070 0080

SWL&P
CHARTER

LEGEND
HAZARDOUS MATERIAL

VCL = 20.00
K = 29.01

VCL = 40.00
K = 41.94

VCL = 18.56
K = 6.41

STA 460+00.00
EL 628.71

STA 460+33.00
EL 628.05

VPI STA 460+50.00
VPI EL 627.98

HIGH POINT STA 460+72.64
HIGH POINT EL 628.04

VPI STA 460+89.28
VPI EL 628.07

VPT STA 460+89.28
VPT EL 627.83

STA 461+75.00
EL 625.89

-2.00%

-0.39%

0.30%

-2.59%

-1.64%

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

VPC STA 460+40.00
VPC EL 628.02

LOW POINT STA 460+51.30
LOW POINT EL 628.00

VPT STA 460+60.00
VPT EL 628.01

VPC STA 460+70.72
VPC EL 628.04

VPC STA 461+25.00
VPC EL 626.90

VPI STA 461+45.00
VPI EL 626.38

VPT STA 461+65.00
VPT EL 626.05

℄ US 2

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

635
630
625
620

628.49 628.71 627.98 628.00 627.42 627.55 626.14 626.33 625.68 624.95 624.70

459+50 460+00 461+00 462+00 462+75

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: PINE AVENUE	SHEET 678	E

LEGEND

HAZARDOUS MATERIAL

STA 467+09.5 LT
CONSTRUCT 35' CE
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 201+44.27 US 2 =
STA 470+00.00 ELM AVE
SEE INTERSECTION DETAIL

8680-00-71 CAT 0070 0080
8680-00-71 CAT 0010 0060

CITY OF SUPERIOR (TYP)

SWL&P

CAUTION

466+85467+00

468+00

469+00

16.0'

16.0'

ELM AVE

CHARTER
CENTURYLINK

CITY OF SUPERIOR

SWL&P

SWL&P
CHARTER
CENTURYLINK

BEGIN CONSTRUCTION
STA 467+18.00
MATCH EXISTING
SAWCUT REQ'D

STA 467+33.5 RT
CONSTRUCT 22' PE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND
SIDEWALK)

STA 467+59.0 RT
CONSTRUCT 16' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

STA 469+25.82 ELM AVE =
STA 510+00.00 A HAYES CT
SEE INTERSECTION DETAIL

STA 469+41.00 ELM AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

STA 201+46.27 US 2 =
STA 470+00.00 ELM AVE
SEE INTERSECTION DETAIL

A HAYES CT

19.0'

US 2

201+00

202+00

CENTURYLINK

STA 471+62.0
CONSTRUCT 19' PE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

STA 470+70.00 ELM AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

SWL&P (TYP)
PROPOSED

SWL&P
CHARTER

STA 471+86.07
CONSTRUCT 16' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

CITY OF SUPERIOR (TYP)

SWL&P (TYP)
EXISTING

470+50

471+00

472+00

472+50

12.0'

12.0'

ELM AVE

CAUTION

SWL&P

CONCRETE CURB &
GUTTER 30-INCH
TYPE D (TYP)

8680-00-71 CAT 0010 0060
8680-00-71 CAT 0070 0080

STA 471+39.0
CONSTRUCT 21' PE
SAWCUT REQ'D
(3" ASPHALTIC SURFACE
9" BADG, TYP BEHIND SIDEWALK)

SWL&P

STA 471+86.5
CONSTRUCT 16' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

END CONSTRUCTION
STA 472+15.00
MATCH EXISTING
SAWCUT REQ'D

N

5

5

VCL = 20.00
K = 20.19

VCL = 20.00
K = 11.72

VCL = 40.00
K = 23.91

635
630
625
621

-2.00%
-1.01%
-0.70%
1.99%
-2.01%
-2.00%
-2.00%
-0.33%

EXISTING ℄ PROFILE
FINISHED ℄ PROFILE

STA 467+18.00
EL 631.21

VPC STA 467+50.00
VPC EL 630.57
VPI STA 467+60.00
VPI EL 630.37
VPT STA 467+70.00
VPT EL 630.27

VPC STA 469+30.00
VPC EL 628.65
VPI STA 469+40.00
VPI EL 628.55
VPT STA 469+50.00
VPT EL 628.62

LOW POINT STA 469+41.85
LOW POINT EL 628.59

STA 469+66.99
EL 628.74

STA 469+94.00
EL 629.28

STA 470+00.00
EL 629.16

STA 470+33.00
EL 628.50

VPC STA 470+80.00
VPC EL 627.56

VPI STA 471+00.00
VPI EL 627.16

VPT STA 471+20.00
VPT EL 627.10

STA 472+15.00
EL 626.78

℄ US 2

631.60 631.44 630.87 630.57 630.49 629.97 630.00 629.46 629.59 628.95 629.05 628.62 629.48 629.16 628.69 628.16 628.15 627.24 627.45 627.00 626.91 626.83

466+85467+00 468+00 469+00 470+00 471+00 472+00 472+50

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: ELM AVENUE	SHEET 679	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 3:01 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF WISDOT/CADDS SHEET 44

PACKERLAND

STA 204+75.33 US 2 =
STA 480+00.00 CEDAR AVE
SEE INTERSECTION DETAIL

SWL&P

CLOSE EXISTING STREET

SWL&P CHARTER

SWL&P

CENTURYLINK

STA 480+73.6 LT
CONST 15.5' CE

SLOPE INTERCEPT

STA 480+60.00 CEDAR AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

SWL&P (TYP)
PROPOSED

SWL&P (TYP)
EXISTING

SWL&P CHARTER

CEDAR AVE

SAWCUT REQ'D

SLOPE INTERCEPT

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

STA 480+80.5 RT
CONST 30' CE
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

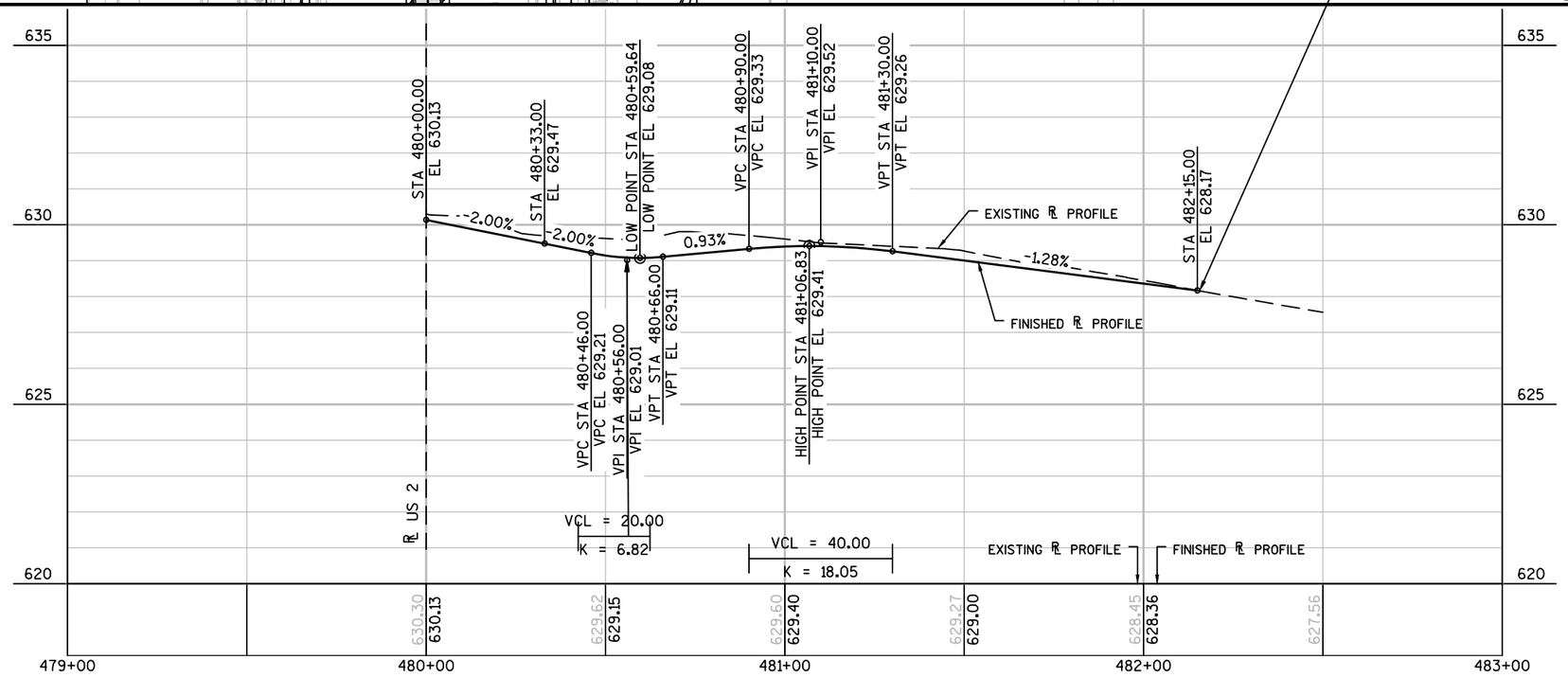
CAUTION

CITY OF SUPERIOR

STA 481+87.0 RT
CONST 18' ALLEY
SAWCUT REQ'D
(4" ASPHALTIC SURFACE
8" BADG, TYP BEHIND SIDEWALK)

END CONSTRUCTION
STA 482+15.00
MATCH EXISTING
SAWCUT REQ'D

LEGEND
HAZARDOUS MATERIAL



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: CEDAR AVENUE (NORTH)	SHEET 680	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 3:01 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF

LEGEND

HAZARDOUS MATERIAL

STA 498+80.00 HILL AVE
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

CALUMET SUPERIOR LLC

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

CENTURYLINK

8998-00-24 CAT 0010
8680-00-71 CAT 0060

SOIL CONTAMINATION SITE 36 2'-10'

STA 208+34.26 US 2 =
STA 500+00.00 HILL AVE
SEE INTERSECTION DETAIL

SWL&P (TYP) EXISTING

SWL&P

CHARTER SWL&P

SWL&P

496+17 497+00 498+00 499+00 500+00 501+00 502+00

HILL AVE

CITY OF SUPERIOR (STREET LIGHTING)

PACKERLAND

SWL&P (TYP) PROPOSED

CALUMET SUPERIOR LLC

HILL AVE

STA 500+65.05 HILL AVE
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

CITY OF SUPERIOR

CITY OF SUPERIOR

SWL&P

SWL&P

STA 208+34.03 US 2 =
STA 500+00.00 HILL AVE
SEE INTERSECTION DETAIL

CITY OF SUPERIOR (STREET LIGHTING)

BEGIN CONSTRUCTION
STA 497+75.00
MATCH EXISTING
SAWCUT REQ'D

STA 499+05.74 HILL AVE =
STA 520+00.00 HAYES A CT
SEE INTERSECTION DETAIL

SWL&P

8680-00-71 CAT 0060
8680-00-71 CAT 0070
8680-00-71 CAT 0080

US 2

END CONSTRUCTION
STA 501+85.00
MATCH EXISTING
SAWCUT REQ'D

5

5

635
630
625
621

VPC STA 497+75.00 VPC EL 630.84
VPI STA 497+75.00 EL 630.84
-0.30%
VPI STA 497+90.00 VPI EL 630.50
-0.58%
VPT STA 498+05.00 VPT EL 630.41
VPC STA 498+23.90 VPC EL 630.30
VPI STA 498+38.90 VPI EL 630.21
LOW POINT STA 498+44.08 LOW POINT EL 630.24
VPT STA 498+53.90 VPT EL 630.26
0.28%
VPC STA 499+05.00 VPC EL 630.40
HIGH POINT STA 499+08.53 HIGH POINT EL 630.41
VPI STA 499+20.00 VPI EL 630.44
VPT STA 499+35.00 VPT EL 630.13
2.11%
VPC STA 499+42.50 VPC EL 629.97
VPI STA 499+50.00 VPI EL 629.96
LOW POINT STA 499+54.96 LOW POINT EL 629.84
VPT STA 499+57.50 VPT EL 629.84
3%
STA 499+66.49 EL 629.88
1.92%
1.91%
STA 500+00.00 EL 630.52
-2.02%
STA 500+29.55 EL 629.92
-0.76%
VPC STA 500+41.00 VPC EL 629.83
VPI STA 500+56.00 VPI EL 629.72
LOW POINT STA 500+57.69 LOW POINT EL 629.77
VPC STA 500+74.00 VPC EL 629.81
VPT STA 500+71.00 VPT EL 629.81
0.61%
HIGH POINT STA 500+81.23 HIGH POINT EL 629.85
VPI STA 500+89.00 VPI EL 629.92
VPT STA 501+04.00 VPT EL 629.63
-1.91%
VPC STA 501+17.00 VPC EL 629.39
EXISTING ℄ PROFILE
VPI STA 501+32.00 VPI EL 629.10
LOW POINT STA 501+37.34 LOW POINT EL 629.19
VPT STA 501+47.00 VPT EL 629.24
-0.91%
VPC STA 501+64.00 VPC EL 629.39
VPI STA 501+74.00 VPI EL 629.48
HIGH POINT STA 501+79.41 HIGH POINT EL 629.46
-0.27%
VPT STA 501+84.00 VPT EL 629.45
STA 501+84.21 EL 629.45

FINISHED ℄ PROFILE

℄ US 2

VCL = 30.00
K = 17.41

VCL = 30.00
K = 34.97

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

VCL = 30.00
K = 12.57

VCL = 15.00
K = 5.91

SOIL CONTAMINATION SITE 36 2'-10'

VCL = 30.00
K = 21.96

VCL = 30.00
K = 11.94

VCL = 30.00
K = 10.66

VCL = 20.00
K = 17.01

631.08 630.93 630.63 630.45 630.41 630.25 630.48 630.39 630.57 629.86 630.88 630.52 630.63 629.78 630.10 629.70 629.54 629.26 629.35 629.13

497+00 498+00 499+00 500+00 501+00 502+00 502+25

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP STREET	COUNTY: DOUGLAS	PLAN AND PROFILE: HILL AVENUE	SHEET 681	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\050102_PP_SIDEROADS.DWG PLOT DATE : 10/24/2016 3:02 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 77/256" = 1'-0"_XREF

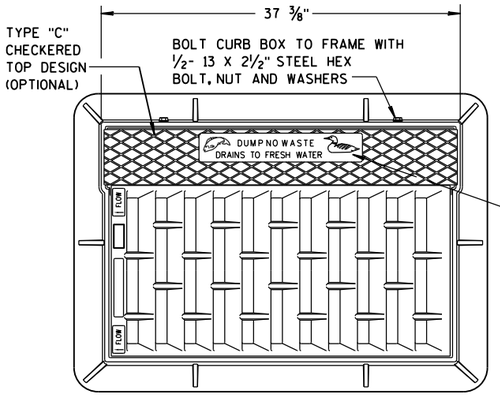
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-17A	CURB RAMPS TYPES 1 AND 1-A
08D05-17B	CURB RAMPS TYPES 2 AND 3
08D05-17C	CURB RAMPS TYPES 4A AND 4A1
08D05-17D	CURB RAMPS TYPE 4B AND 4B1
08D05-17E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-05B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D15-05C	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08D	TYPE 13 POLE 35'-55' MONOTBE ARM
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
10A01-03	ELECTRICAL HANDHOLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-13A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-13B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-13C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END

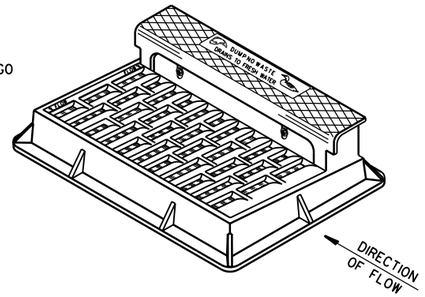
6

Standard Detail Drawing List

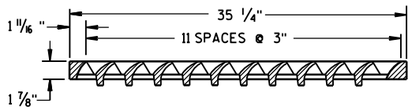
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C18-03	MEDIAN ISLAND MARKING
15C29-03A	BICYCLE LANE MARKING
15C29-03B	BICYCLE LANE MARKING
15C29-03C	URBAN BICYCLE LANE MARKING
15C29-03D	URBAN BICYCLE LANE MARKING
15C29-03E	PAVEMENT MARKING FOR BIKE LANES
15C29-03F	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D21-03	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-02	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-03	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-02A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-02B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-02C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

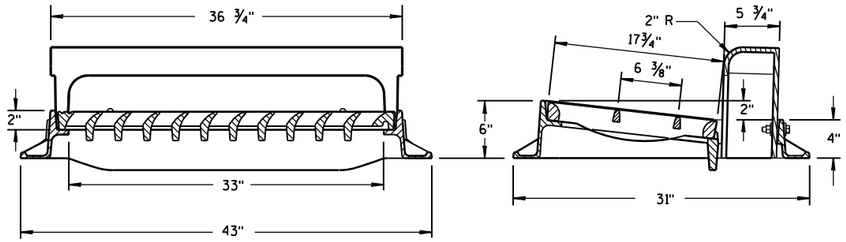


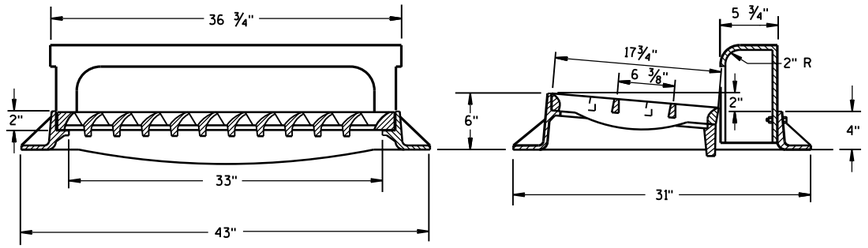
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

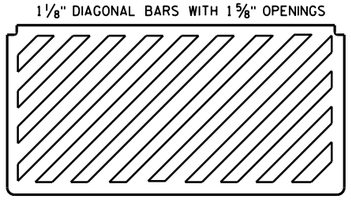






TYPE "H"

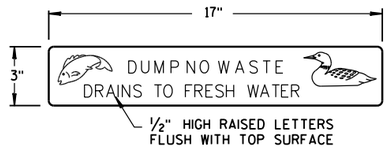
NOTE: EITHER CASTING IS ACCEPTABLE



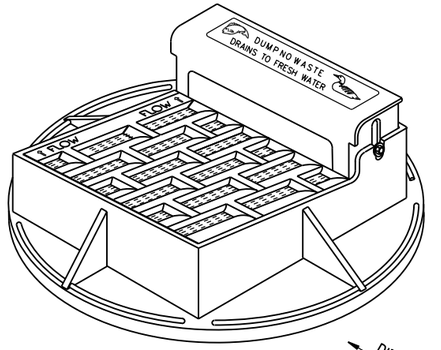
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

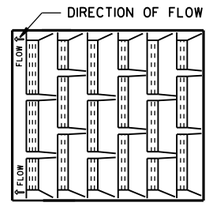
NOTE:
GRATE IS REVERSIBLE.

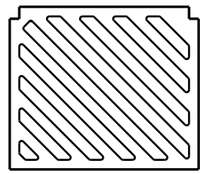
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

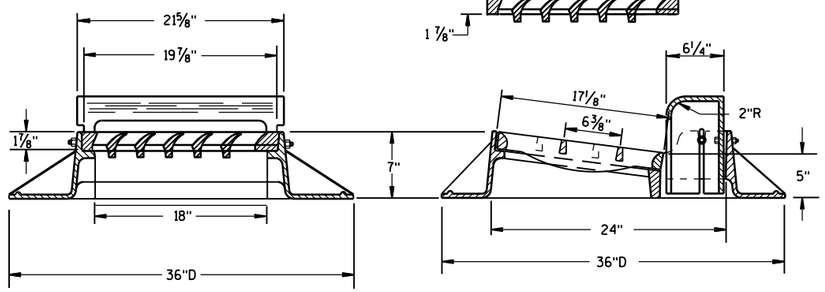




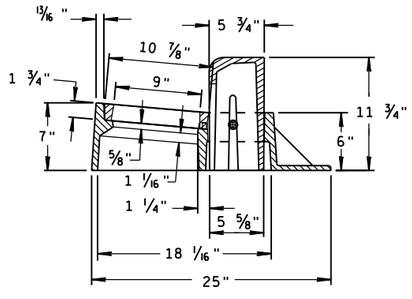
SPECIAL GRATE FOR TYPE "A" COVER

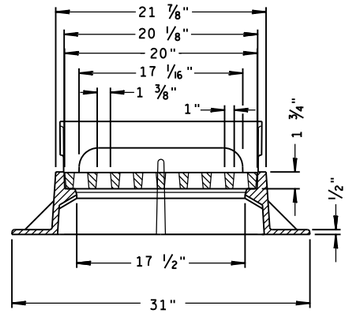
(MEASURES 19 3/4" X 17" X 1 7/8")

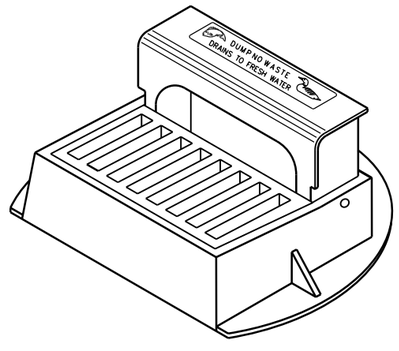
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

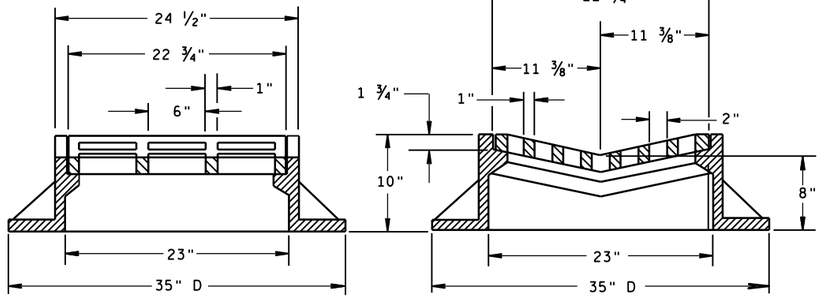
INLET COVERS
TYPE A, H, A-S, H-S & Z

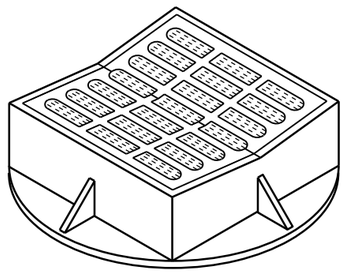
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

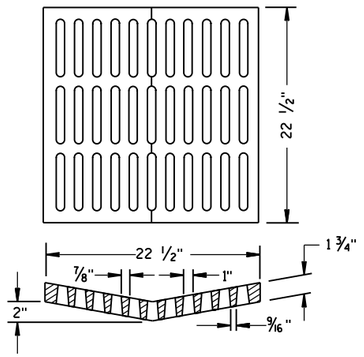
6

S.D.D. 8 A 5-19a



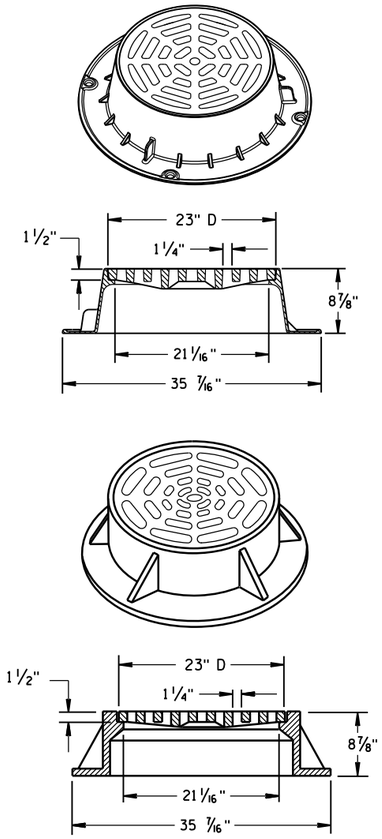


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

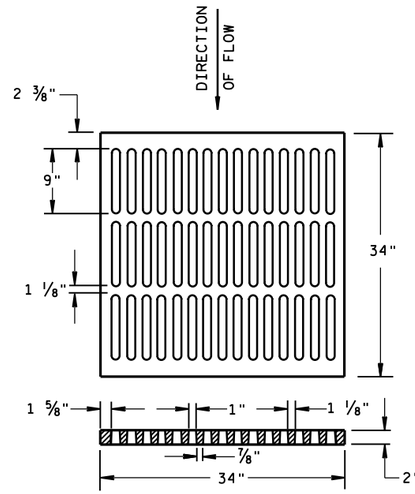
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

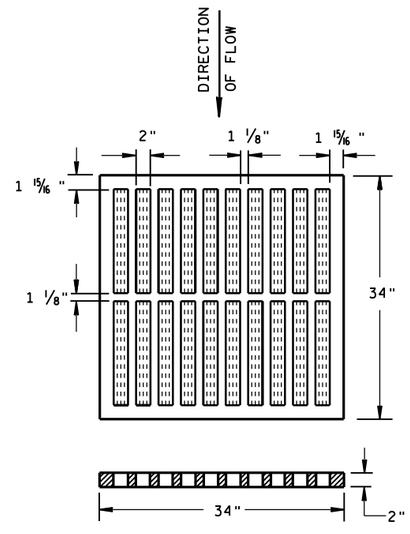
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



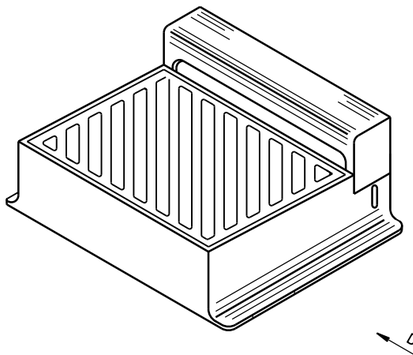
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

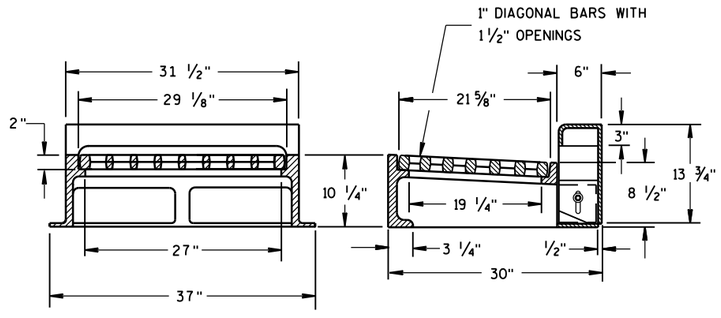


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

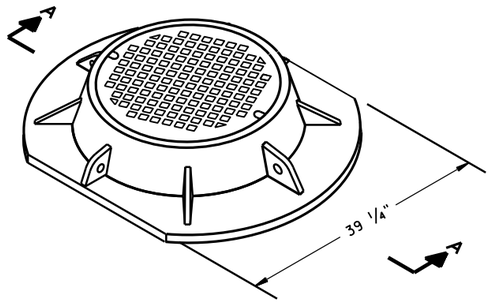
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

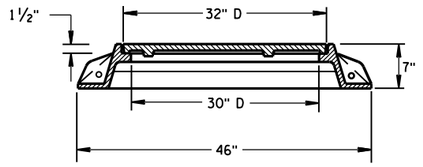
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

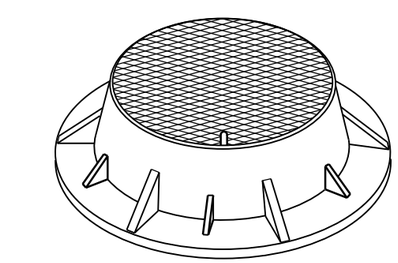
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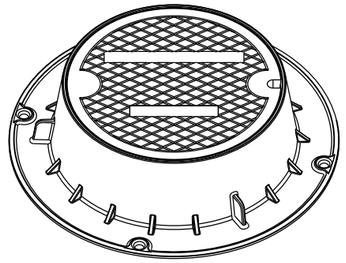
S.D.D. 8 A 5-19b

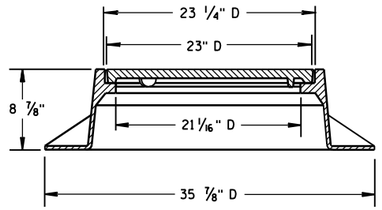


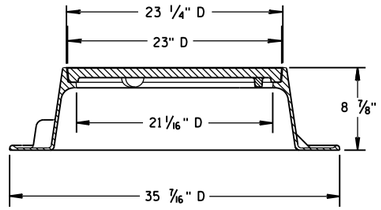


SECTION A-A
TYPE "K"









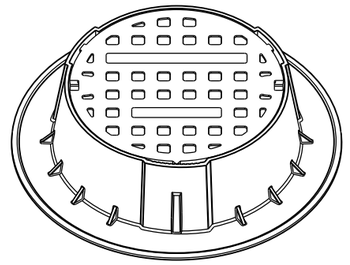
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

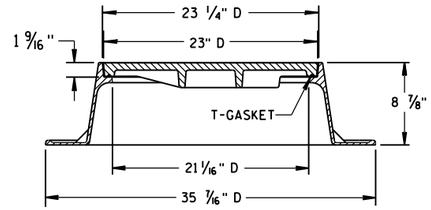
GENERAL NOTES

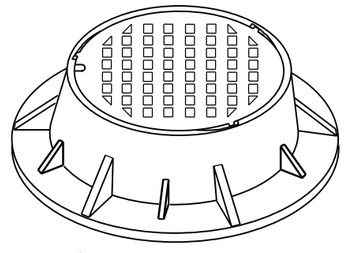
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

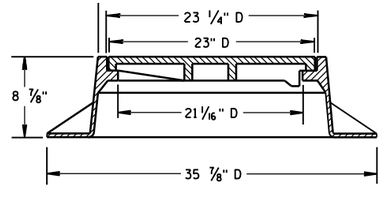
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

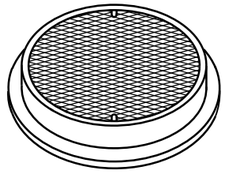


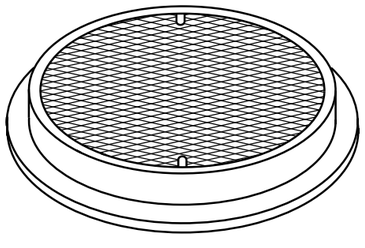


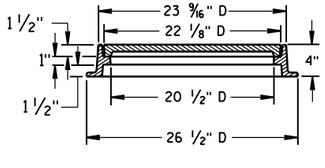




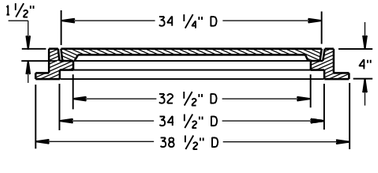
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



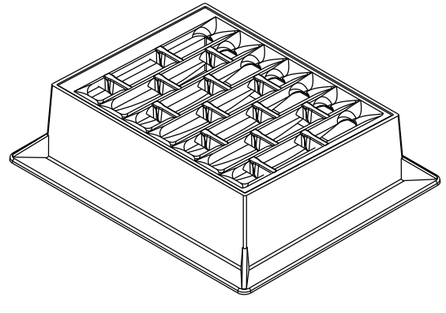


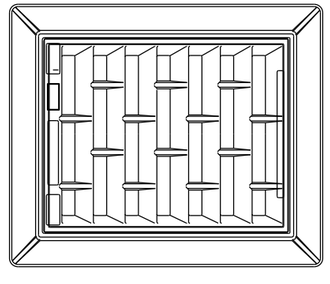


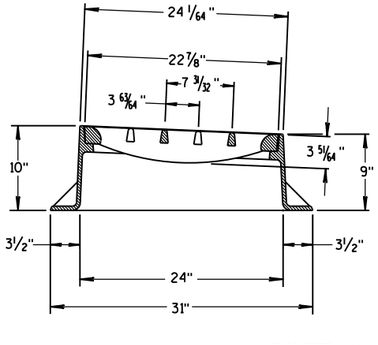
TYPE "L"

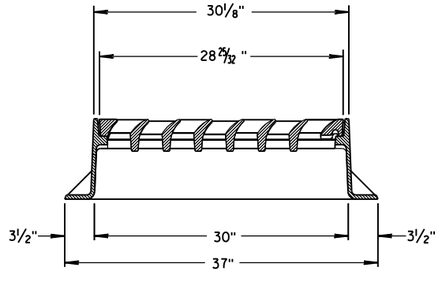


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

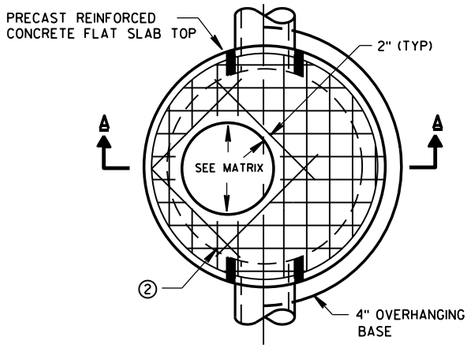
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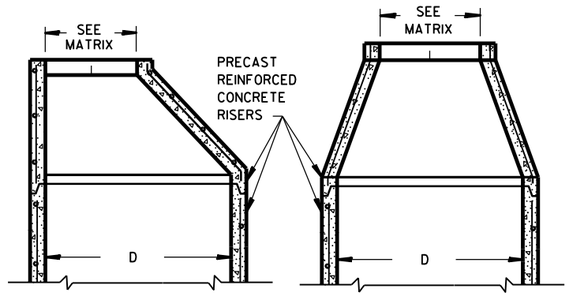
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

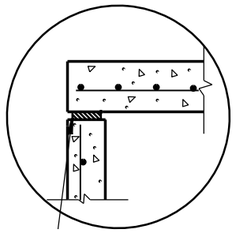


PLAN VIEW CIRCULAR OPENING

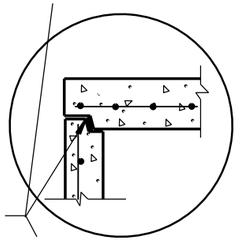


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

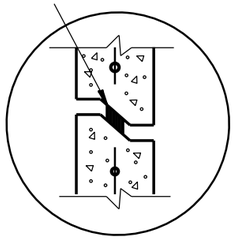


TOP WITH PLAIN END JOINT



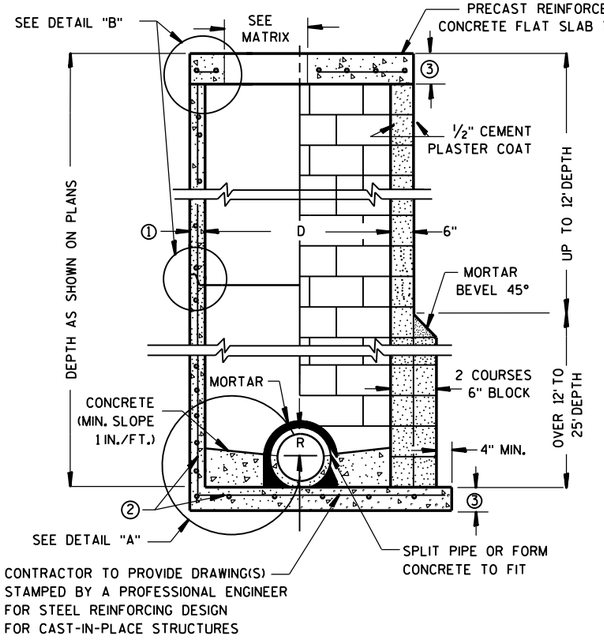
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



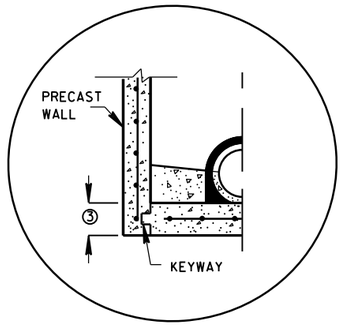
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

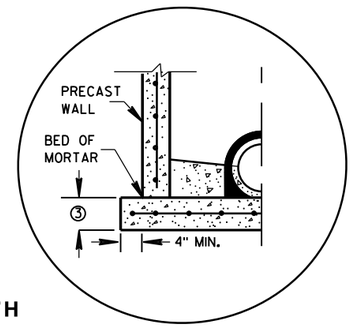


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

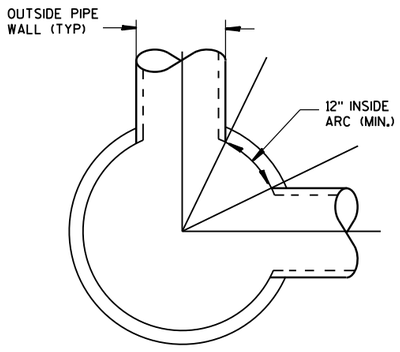


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

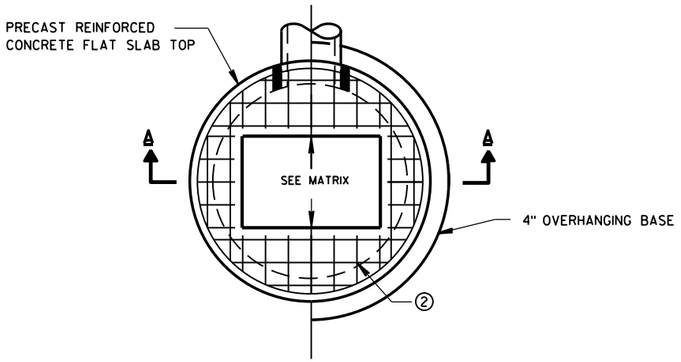
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

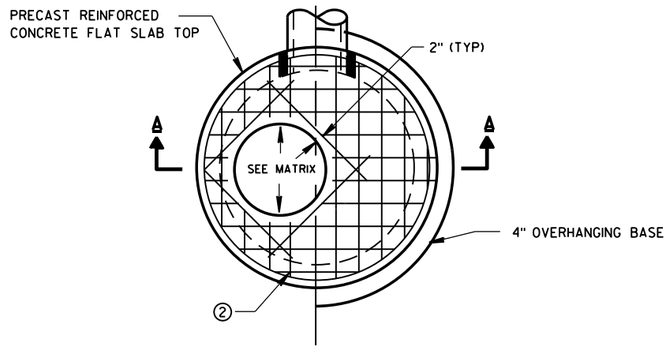
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

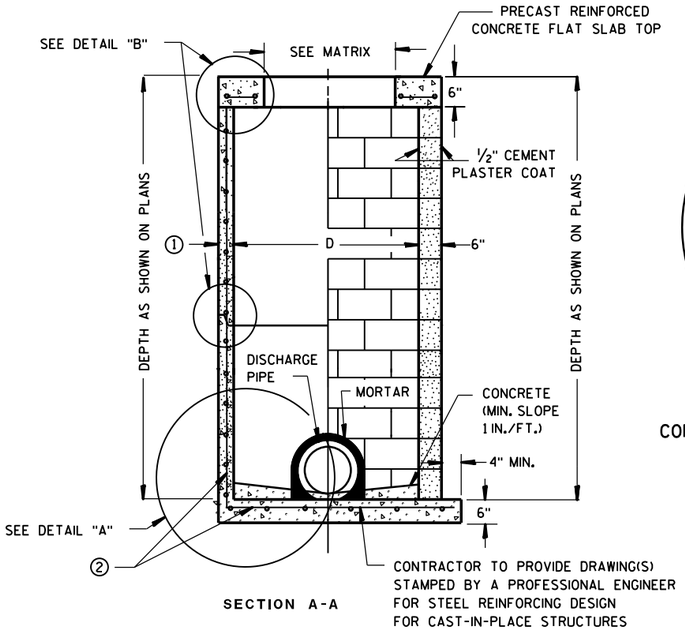
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S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

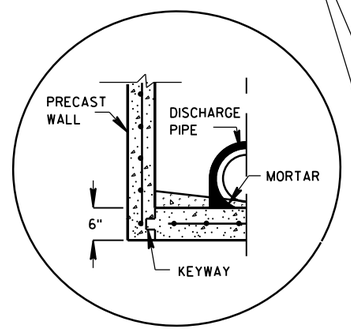


SECTION A-A

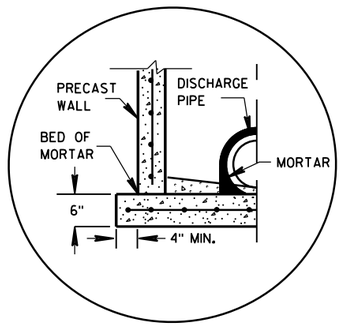
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

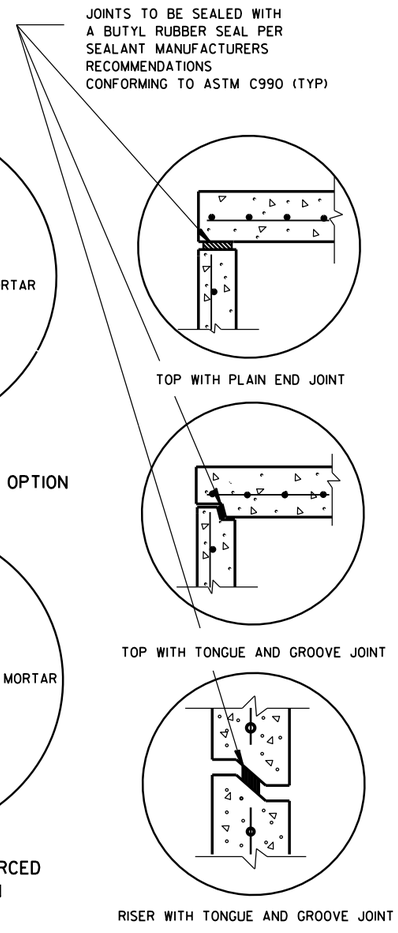


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

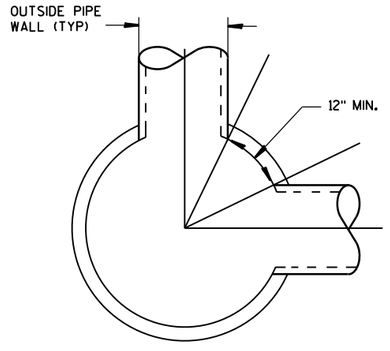
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

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6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

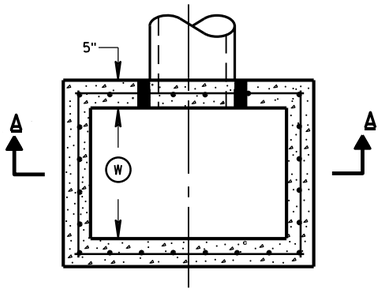
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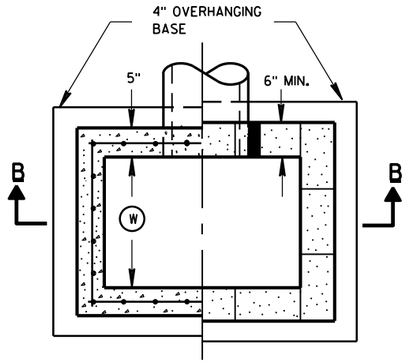
S.D.D. 8 C 6-1

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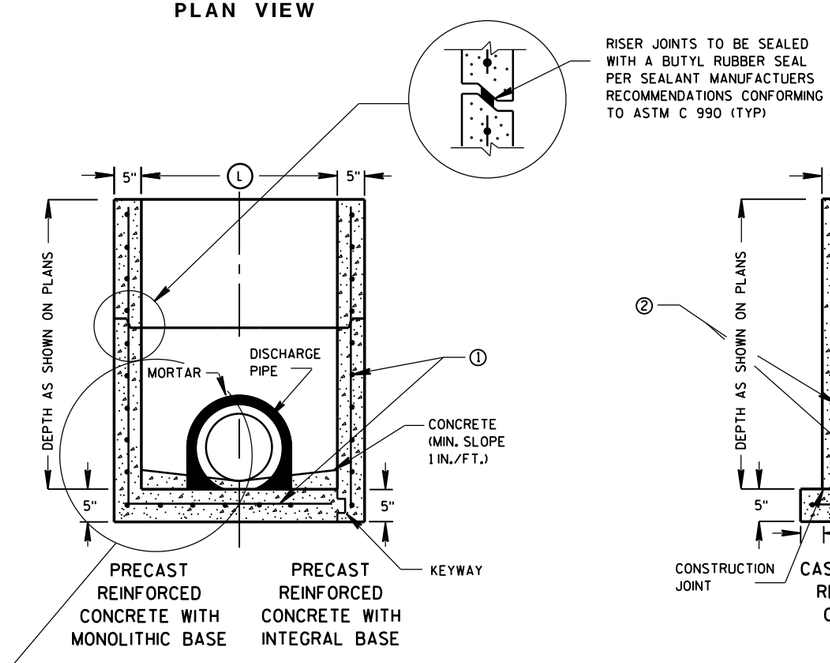
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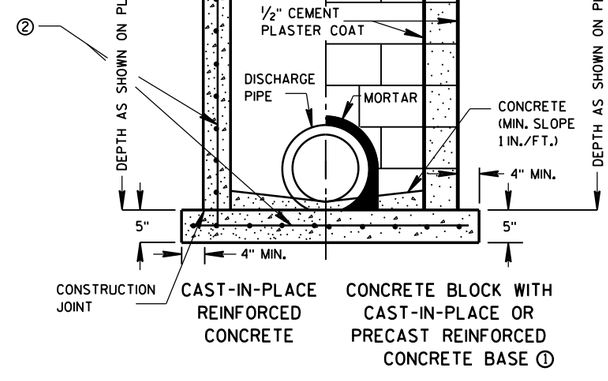
PLAN VIEW



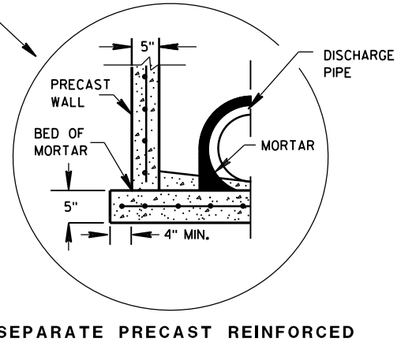
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

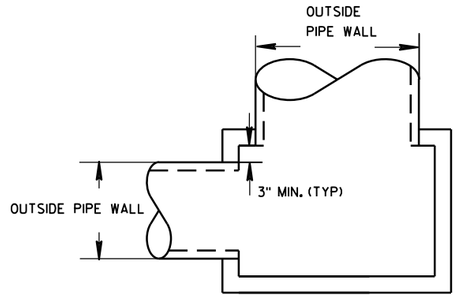
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

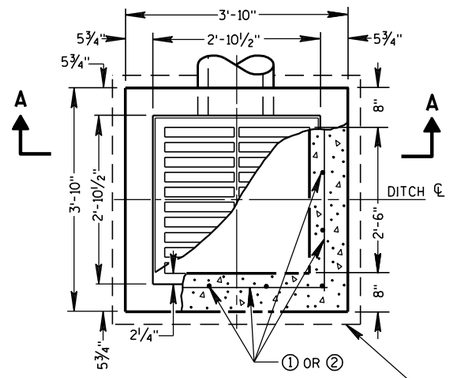
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
FHWA

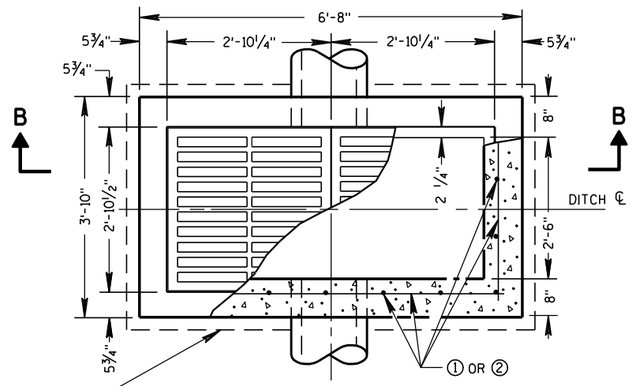
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

6
S.D.D. 8 C 7-1

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

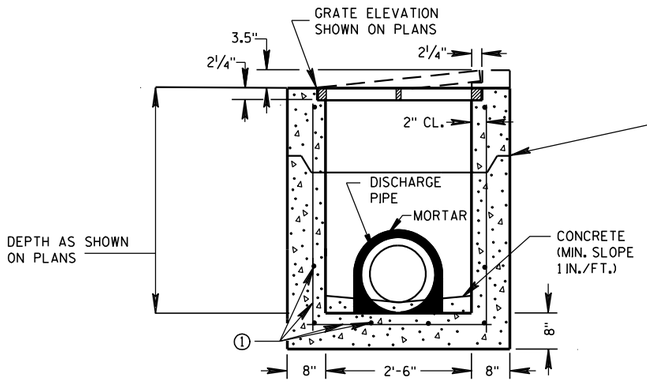


PLAN VIEW

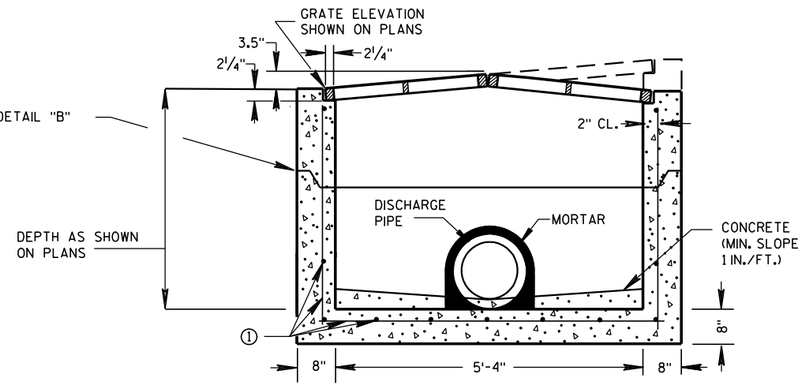


PLAN VIEW

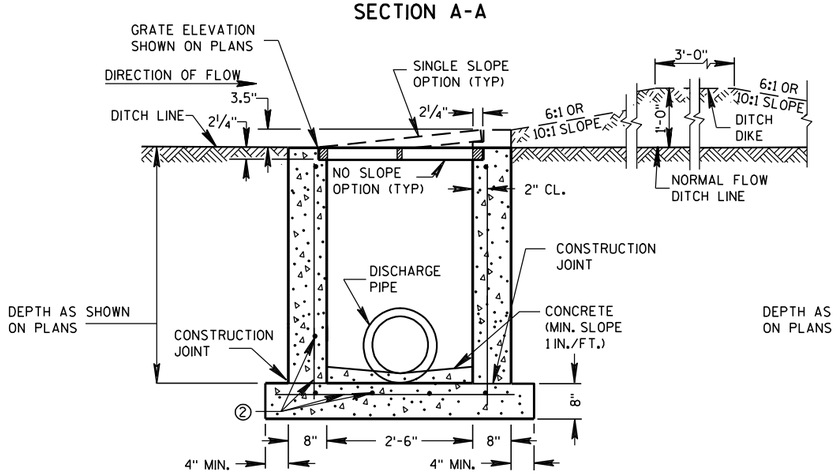
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



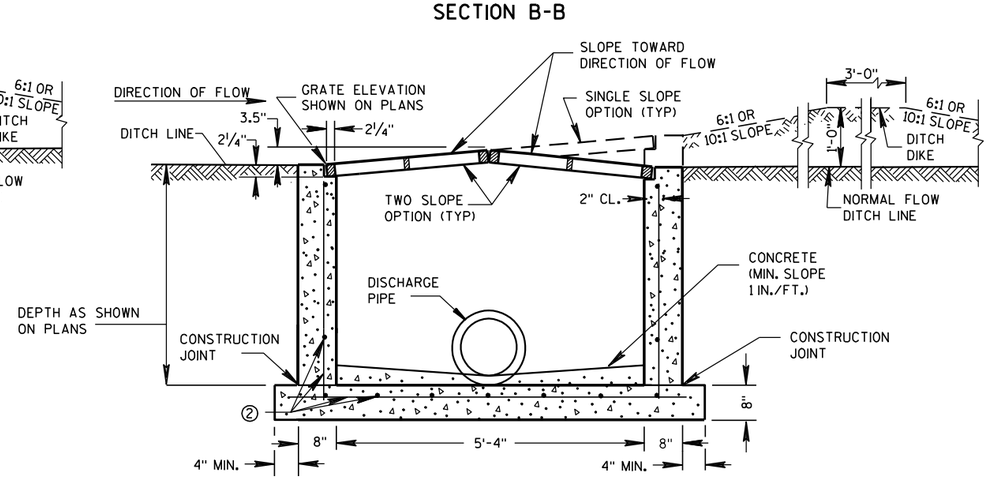
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

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ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

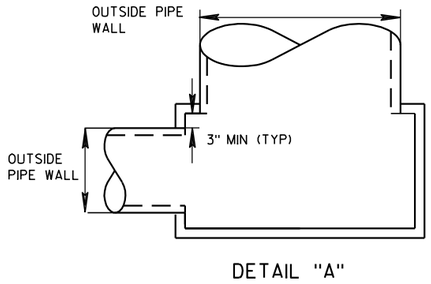
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

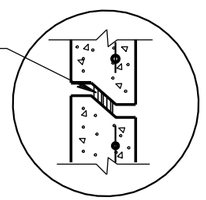
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

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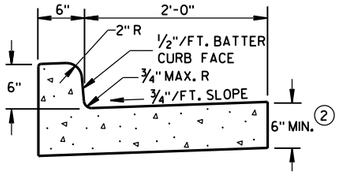
APPROVED

6/5/2012
DATE

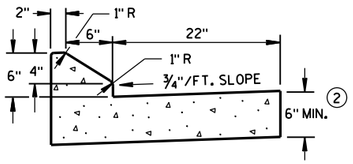
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

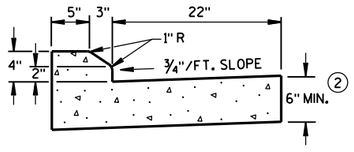
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S.D.D. 8 C 8-1



TYPES A & D ①

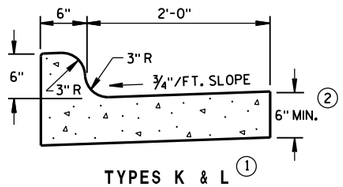


6" SLOPED CURB TYPES G & J ①

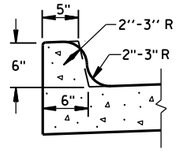


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

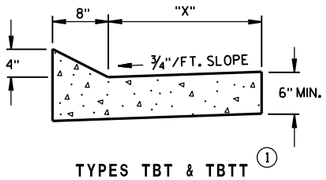


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

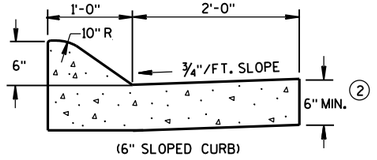
CONCRETE CURB & GUTTER 30"



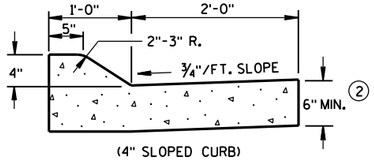
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

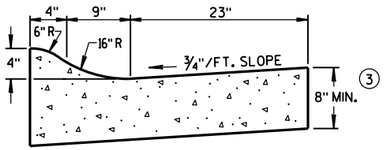


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

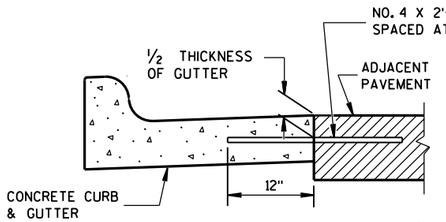
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

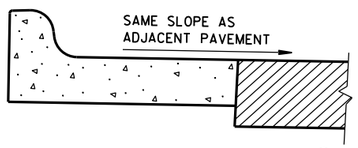
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

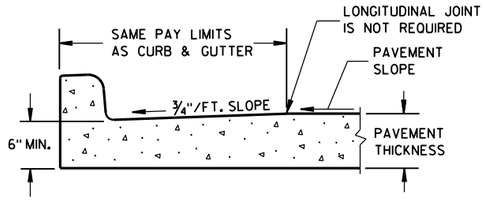
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



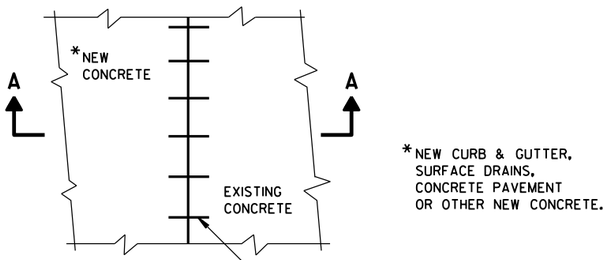
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

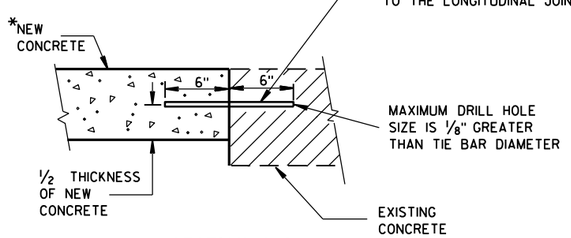


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



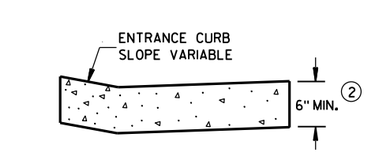
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

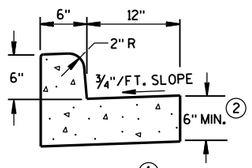


SECTION A-A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

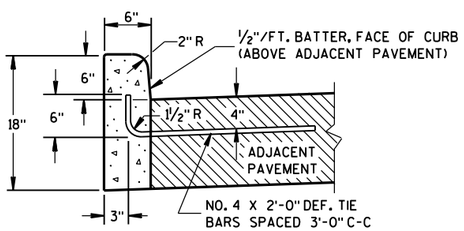


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

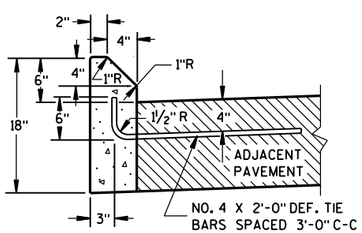


① TYPES A & D

CONCRETE CURB & GUTTER 18"

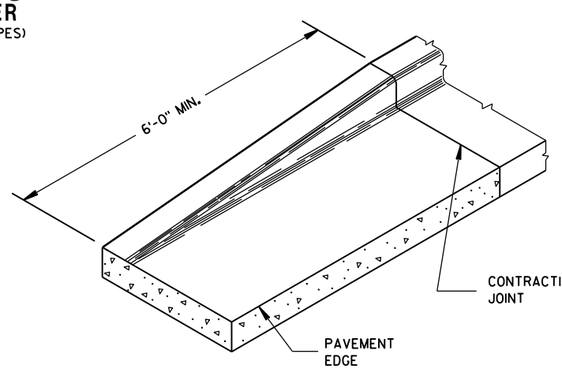


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

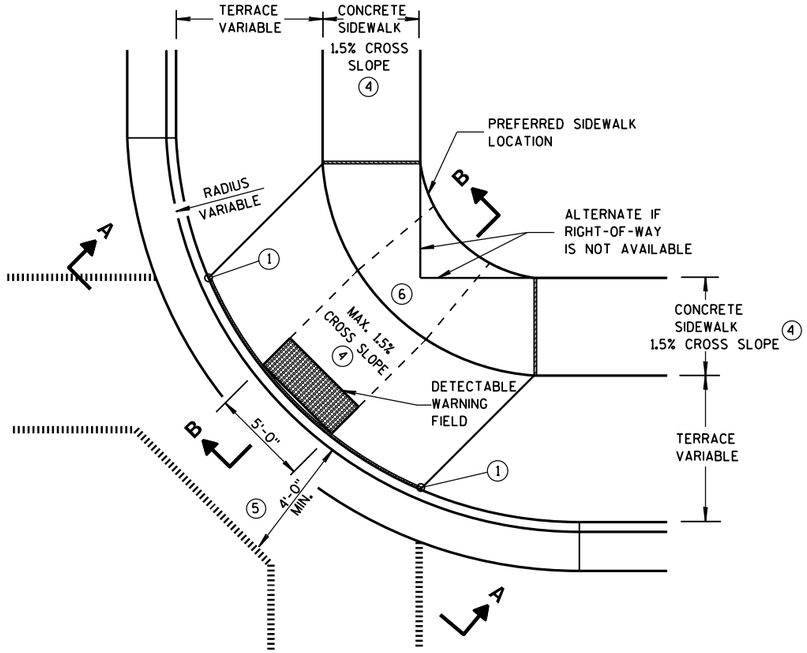
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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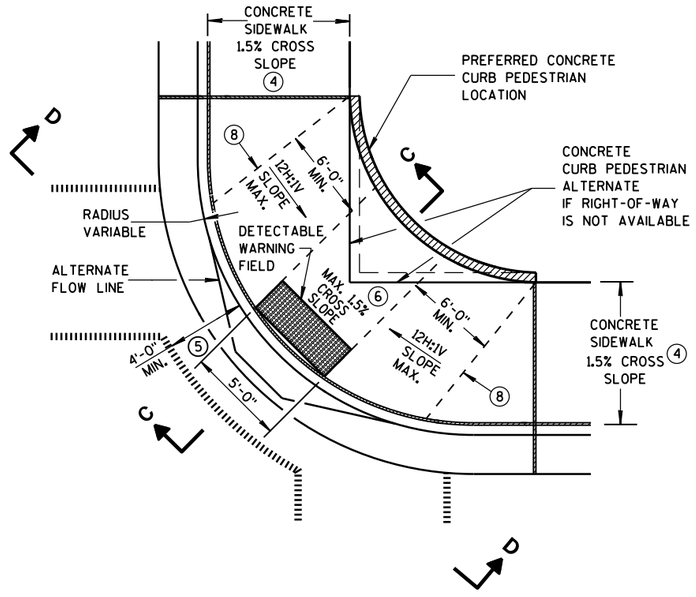
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

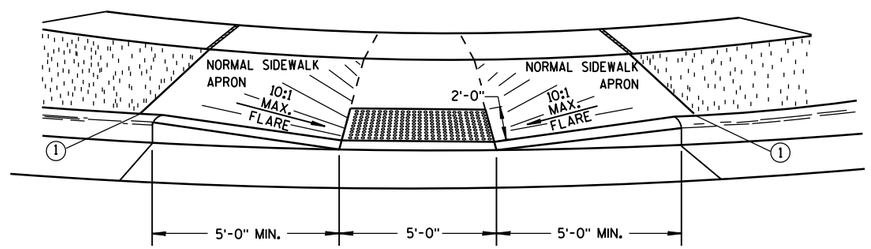
(CENTER OF CORNER RADIUS)



PLAN VIEW

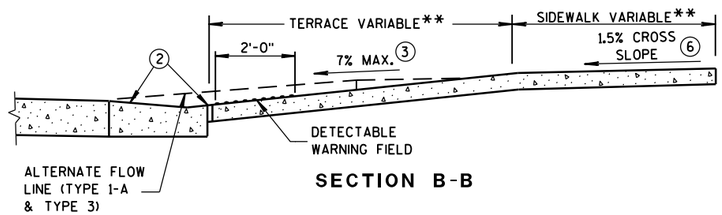
TYPE 1-A RAMP

(NO TERRACE)

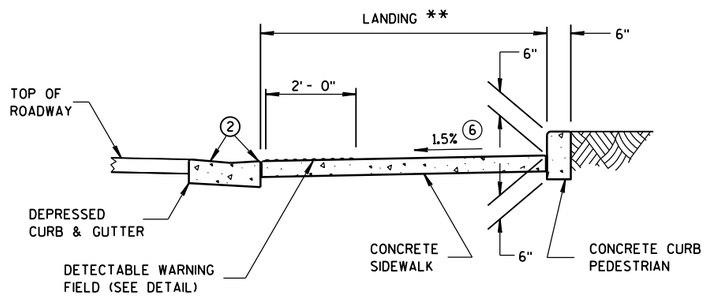


VIEW A-A

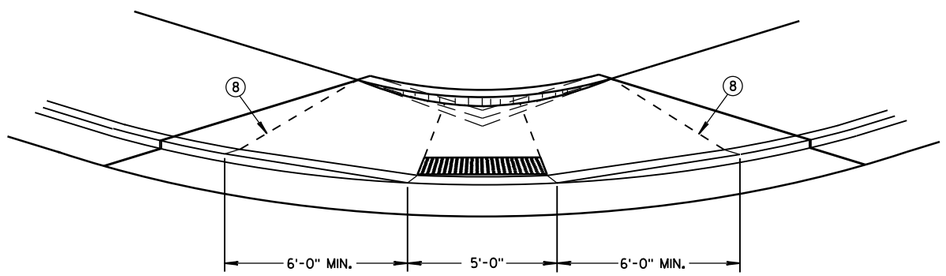
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

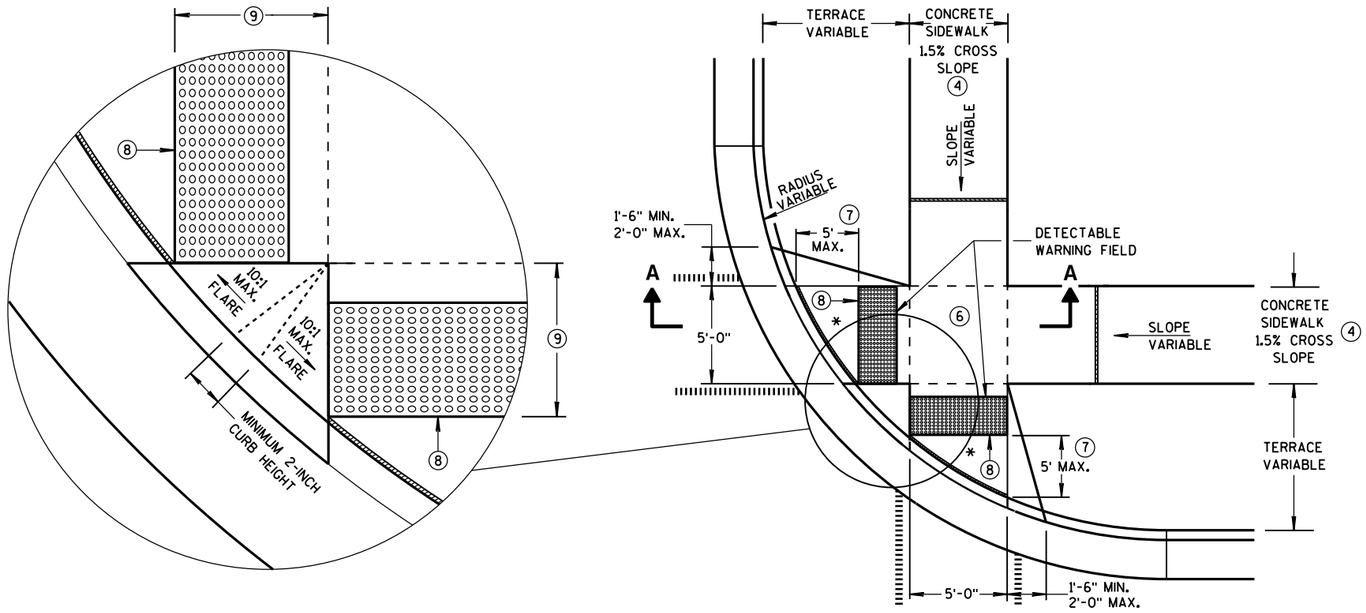
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-17a

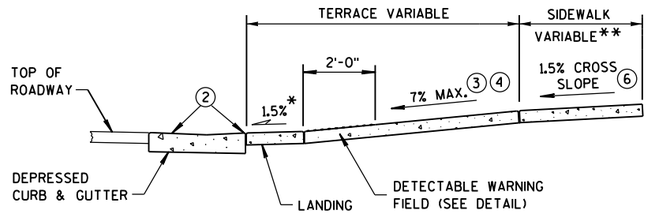


PLAN VIEW

TYPE 2 RAMP

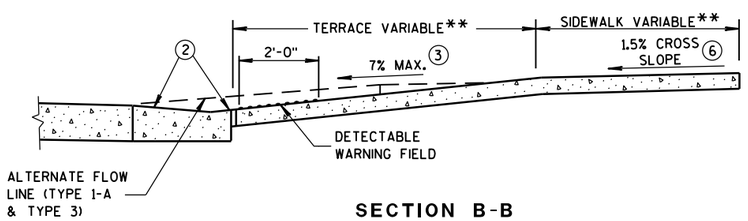
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

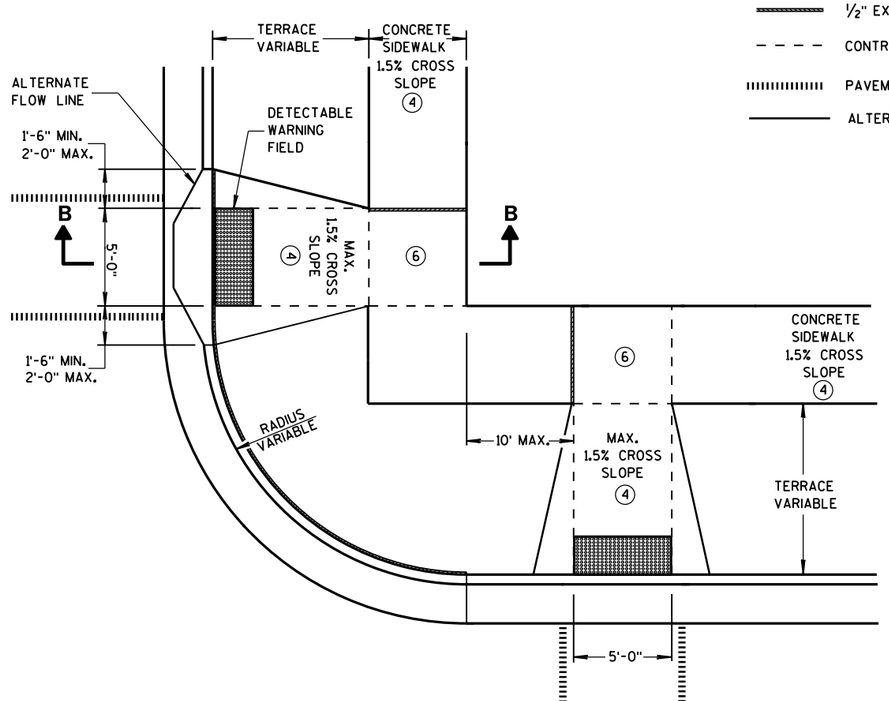
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

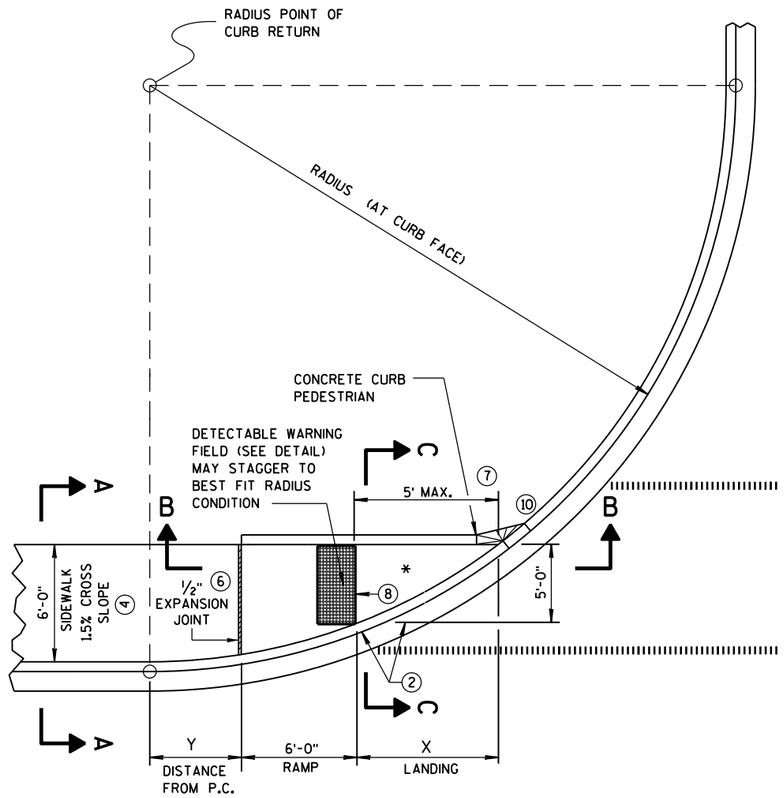
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

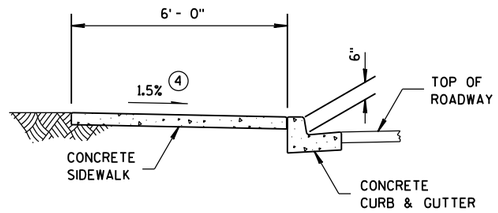
S.D.D. 8 D 5-17b



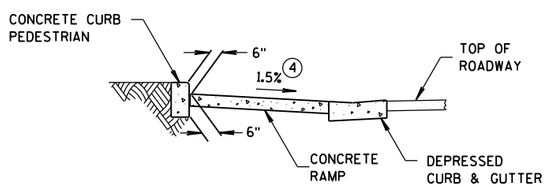
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	7'-11"	0'-2"
30 FEET	10'-2¾"	1'-7½"
40 FEET	12'-1¼"	2'-10"
50 FEET	13'-8¾"	3'-10¾"
60 FEET	15'-2"	4'-10¼"

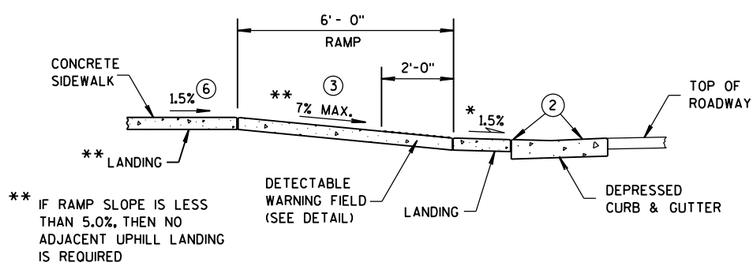
INTERMEDIATE RADII CAN BE INTERPOLATED



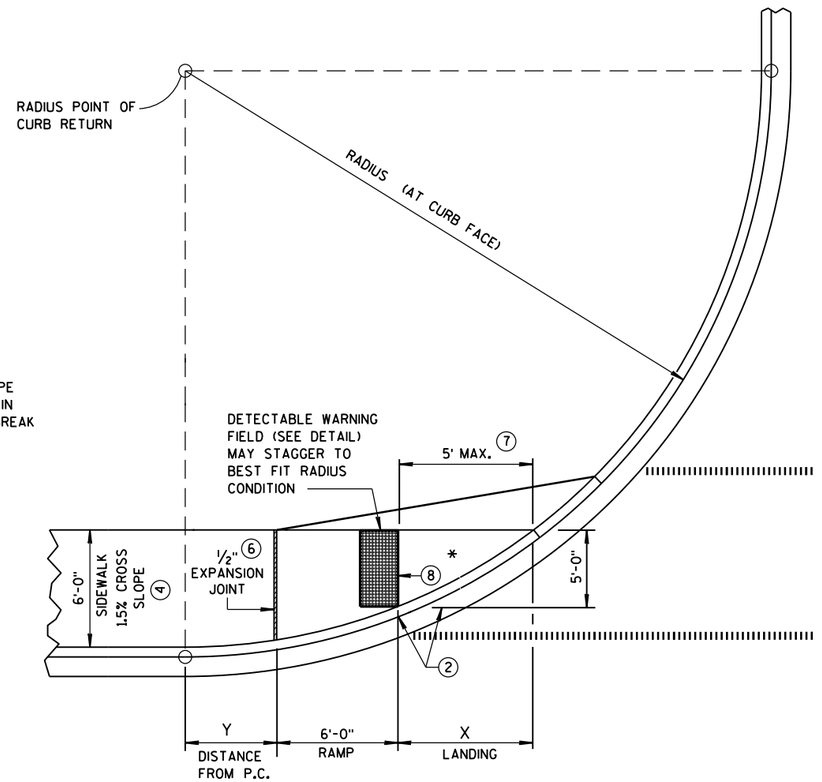
SECTION A-A FOR TYPE 4A



SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

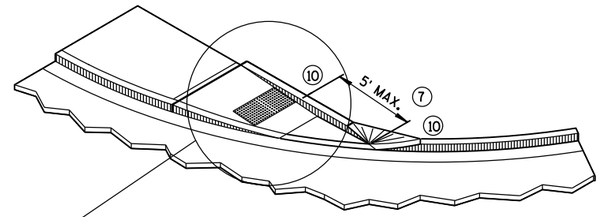
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

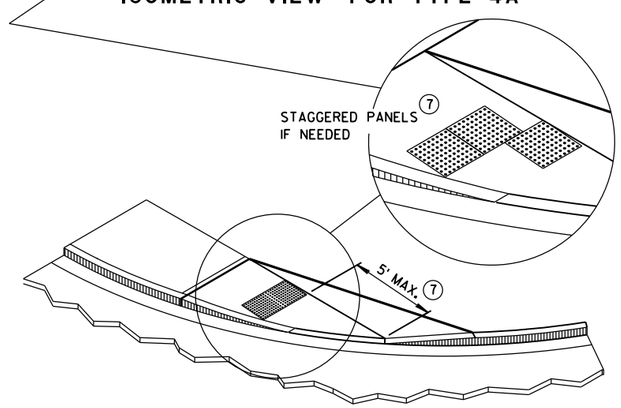
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

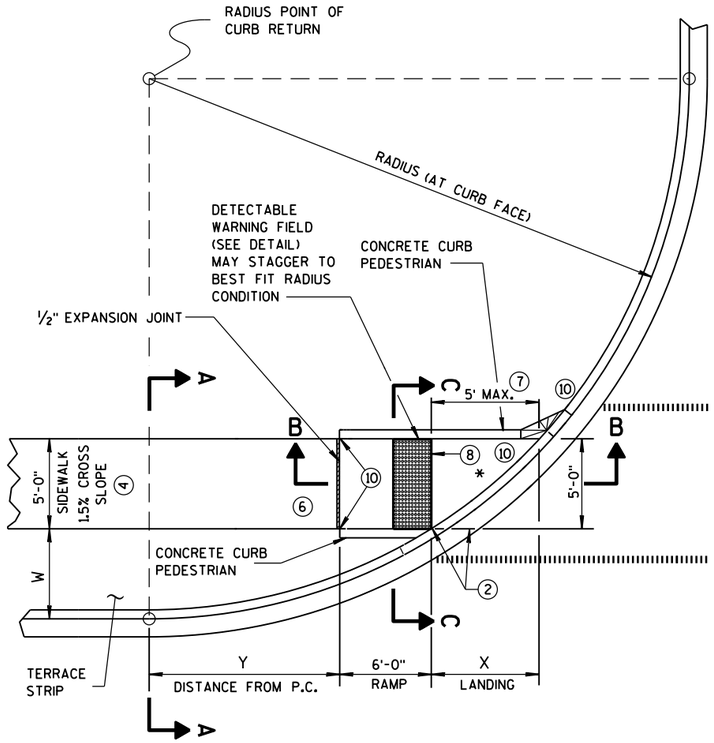
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 694

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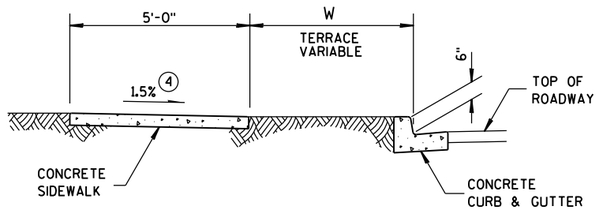
S.D.D. 8 D 5-17c

6

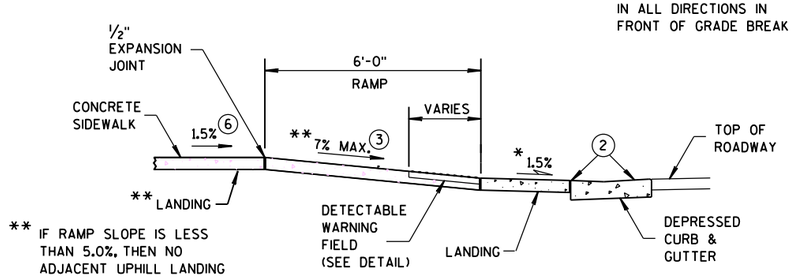
S.D.D. 8 D 5-17c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



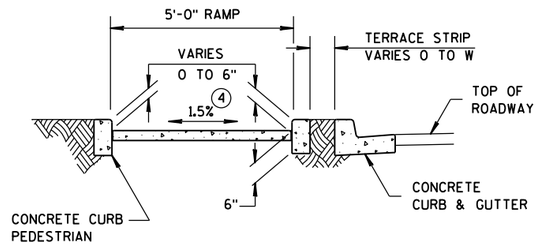
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-6¾"	3'-3"	8'-6¼"
30 FEET	7'-9¼"	5'-10½"	6'-9½"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"
40 FEET	9'-4"	7'-10"	8'-2¾"	10'-3"	7'-4¾"	12'-3¾"	6'-8½"	14'-1¼"	6'-1¾"	15'-8½"
50 FEET	10'-8"	9'-6½"	9'-5½"	12'-3¼"	8'-6½"	14'-7½"	7'-9¾"	16'-8¼"	7'-2½"	18'-6¼"
60 FEET	11'-10¼"	11'-0¾"	10'-6½"	14'-1¼"	9'-6½"	16'-8½"	8'-9¼"	18'-11¾"	8'-1½"	21'-0½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

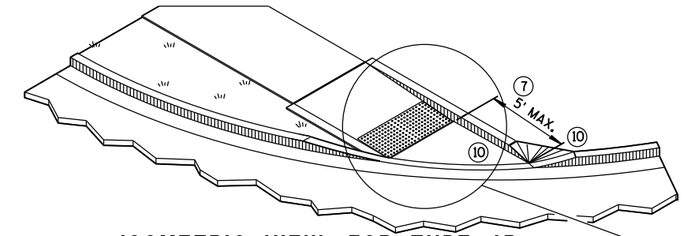
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

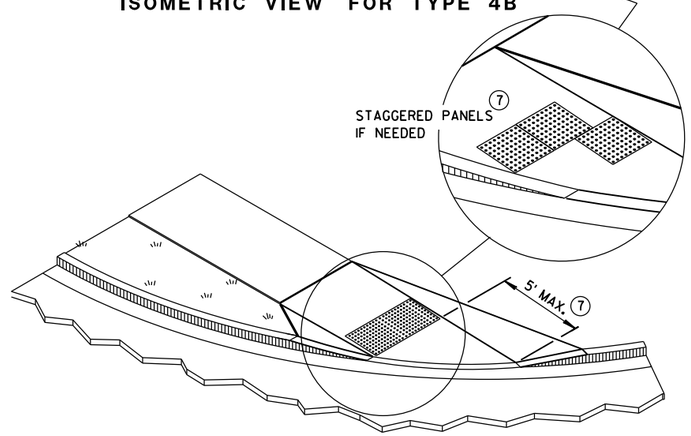
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

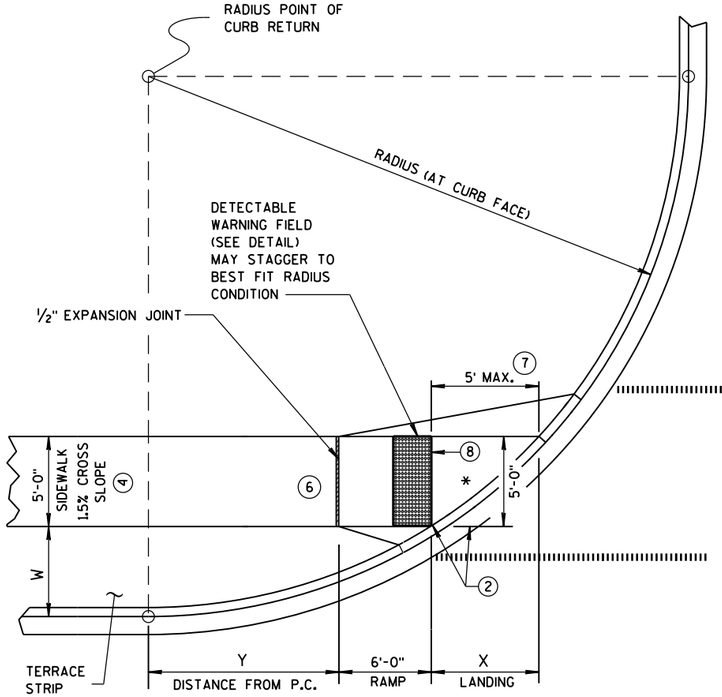
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



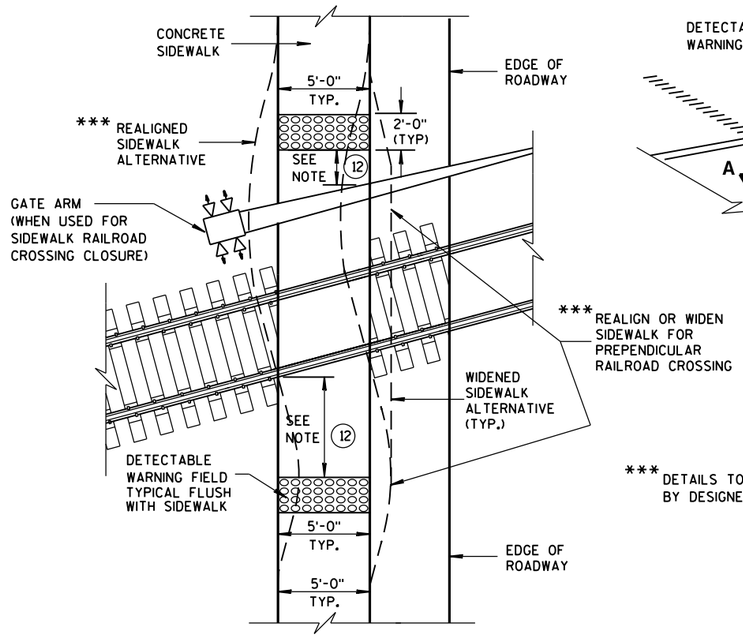
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

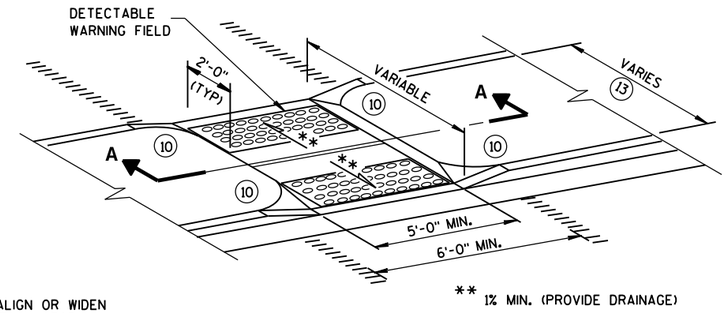
6

S.D.D. 8 D 5-17d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

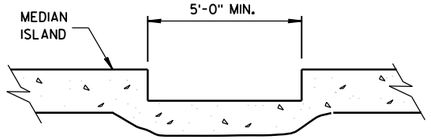
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

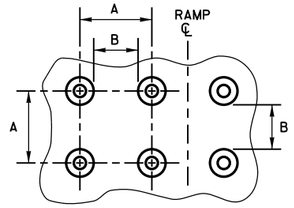
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



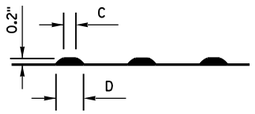
SECTION A-A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

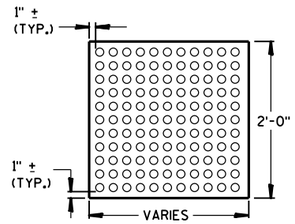


PLAN VIEW

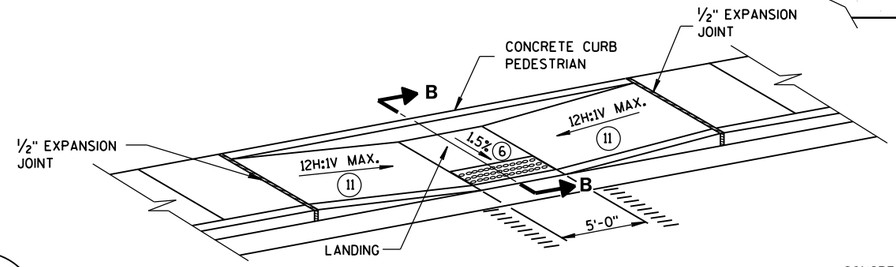


ELEVATION VIEW

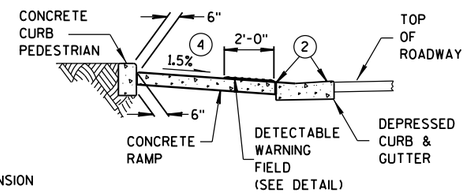
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

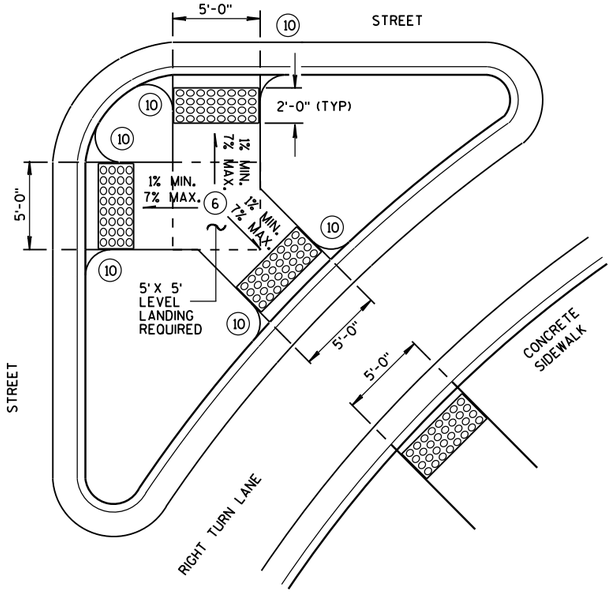


MID-BLOCK CROSSING
TYPE 7A

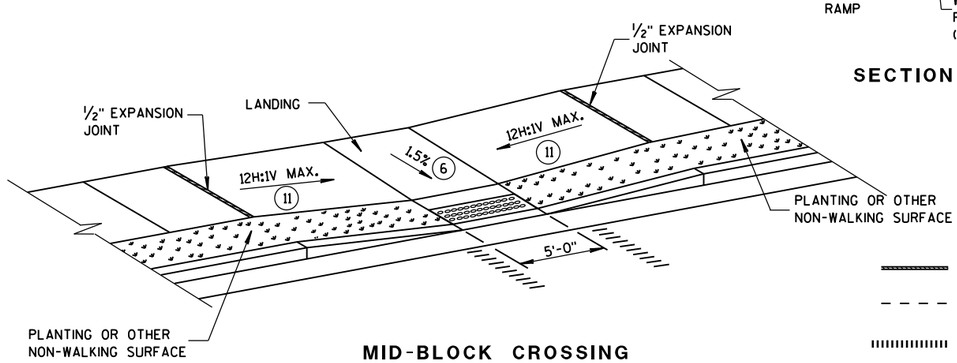


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 D 5-17e

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

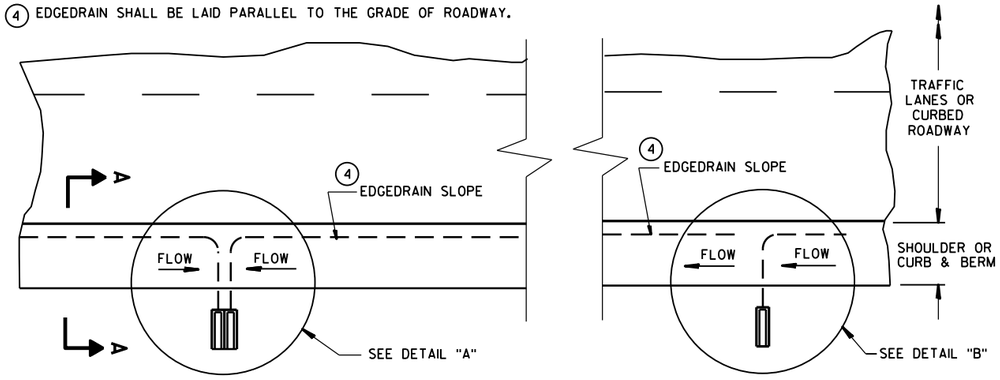
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

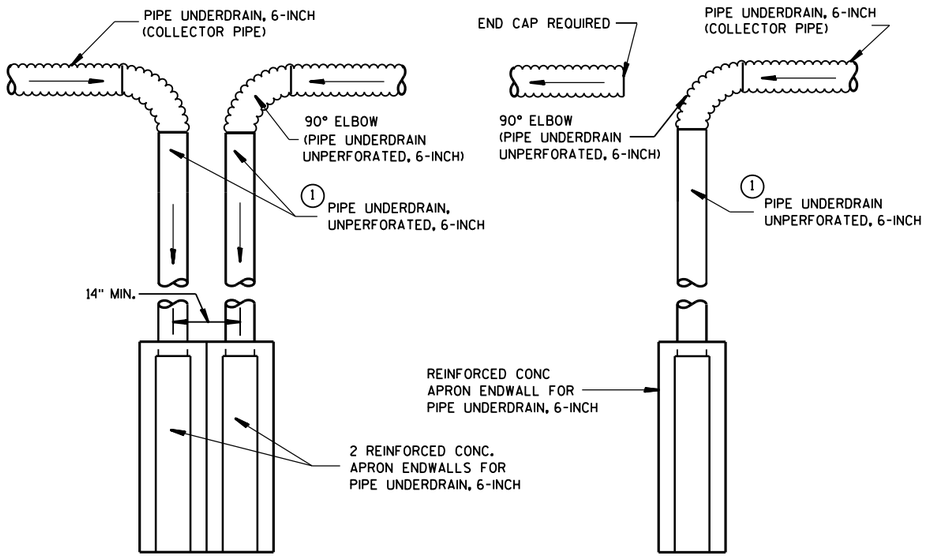
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

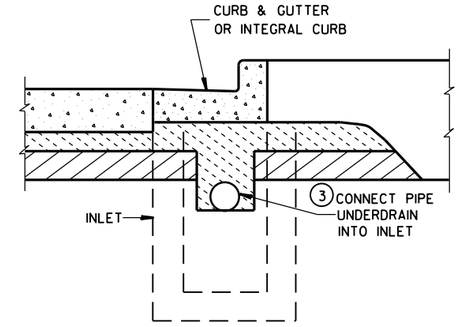
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

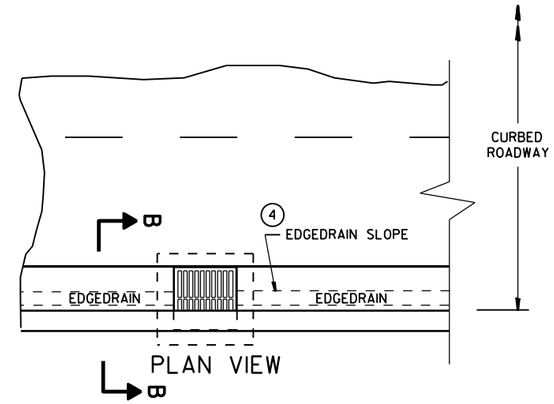
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

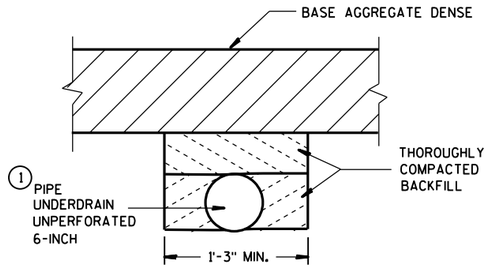
URBAN CROSS SECTION



PLAN VIEW

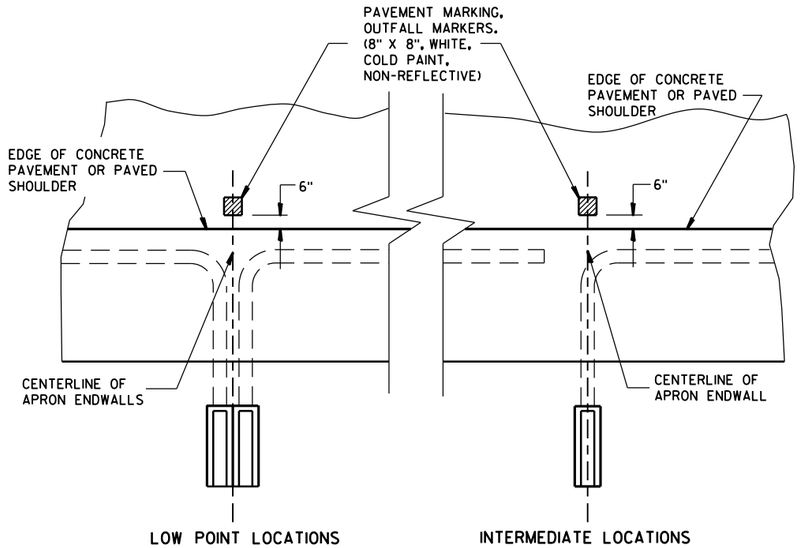
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



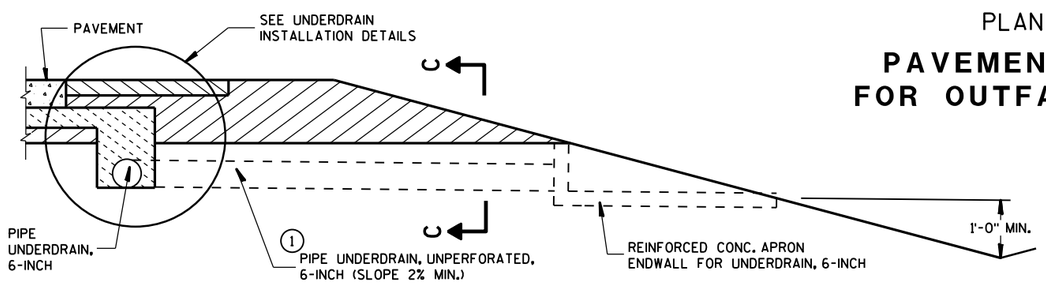
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

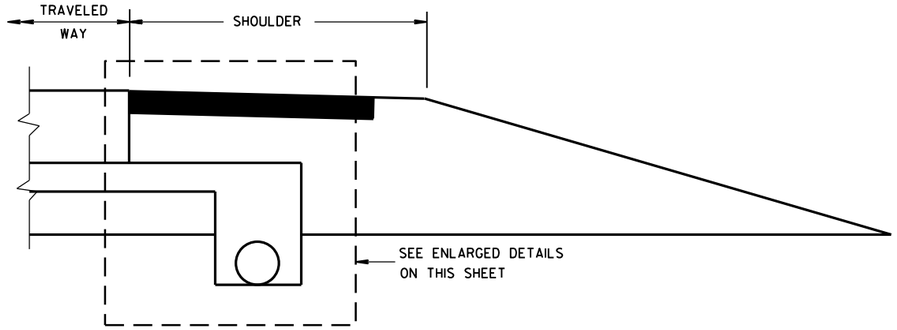
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 15-5a

6

S.D.D. 8 D 15-5a



RURAL CROSS SECTION

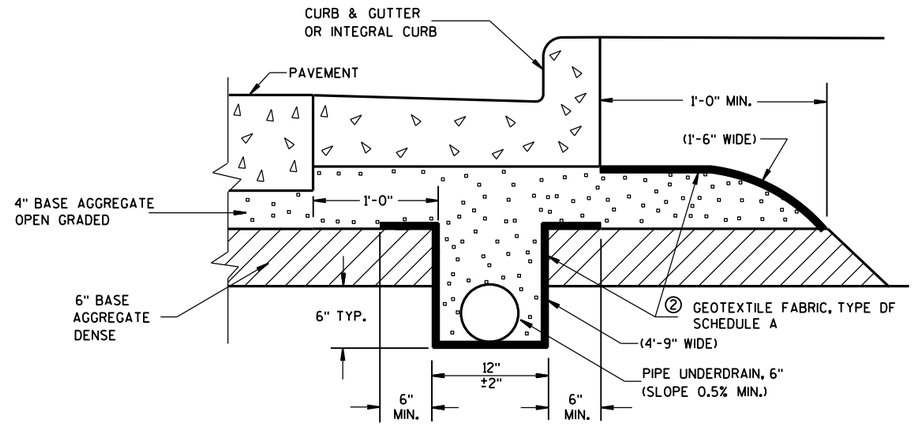
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

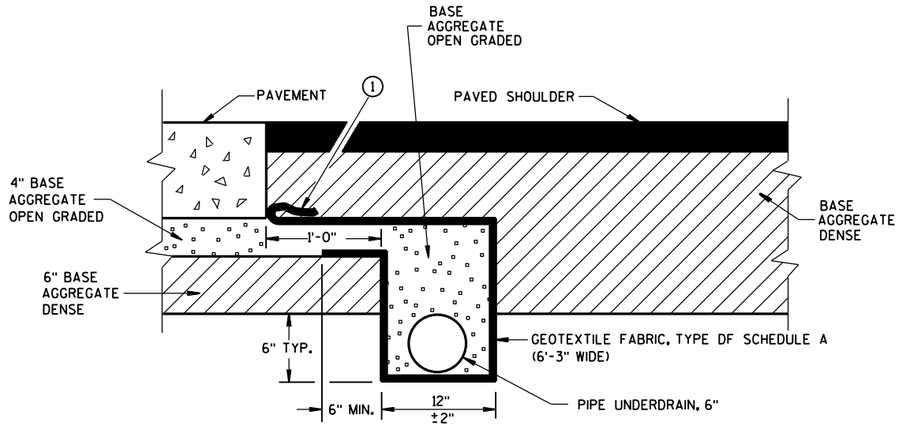
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

① FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

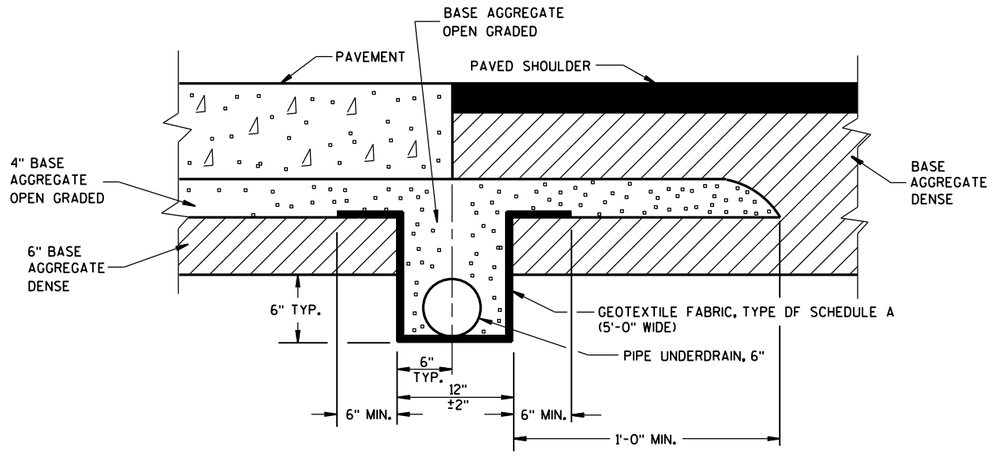
② TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

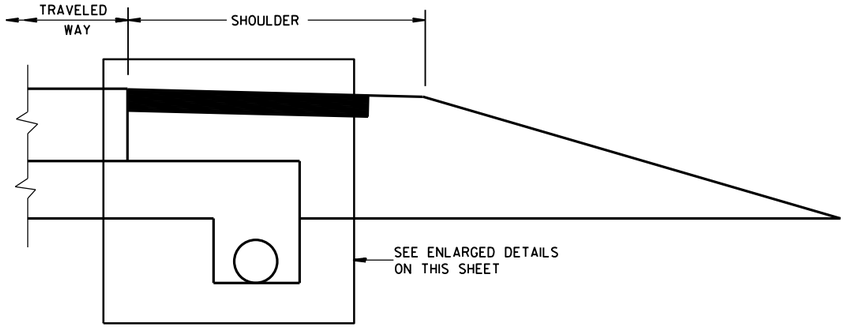
EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
FHWA

6

S.D.D. 8 D 15-5b

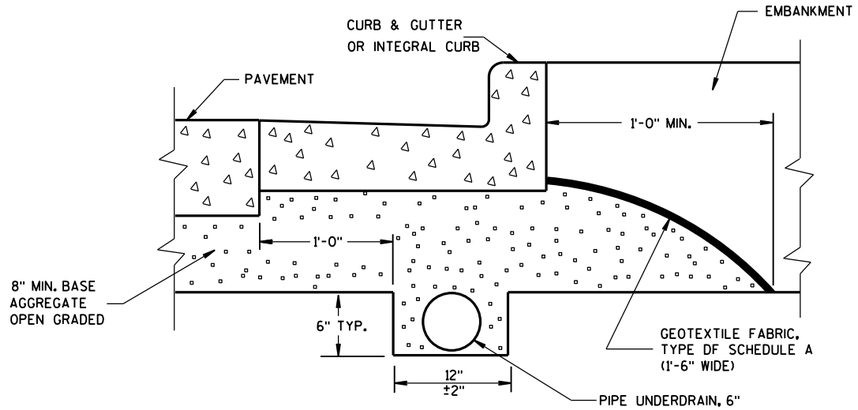


RURAL CROSS SECTION

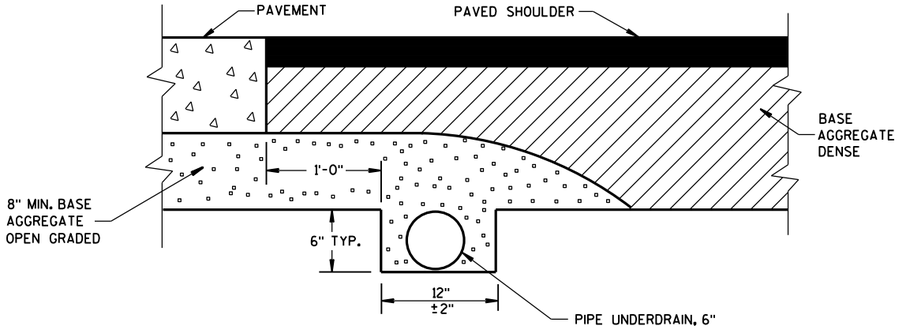
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

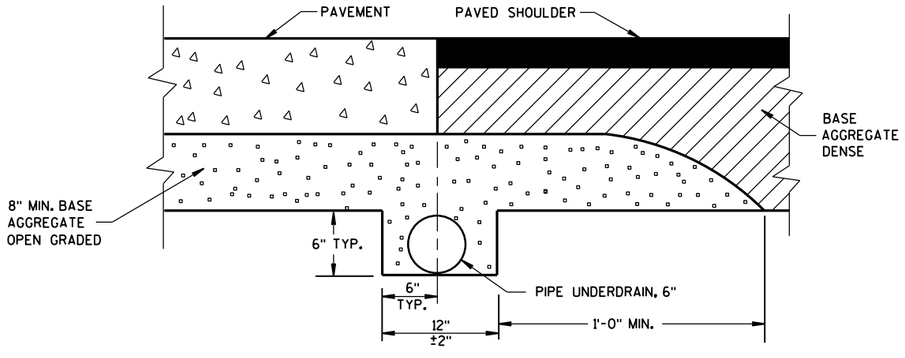
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



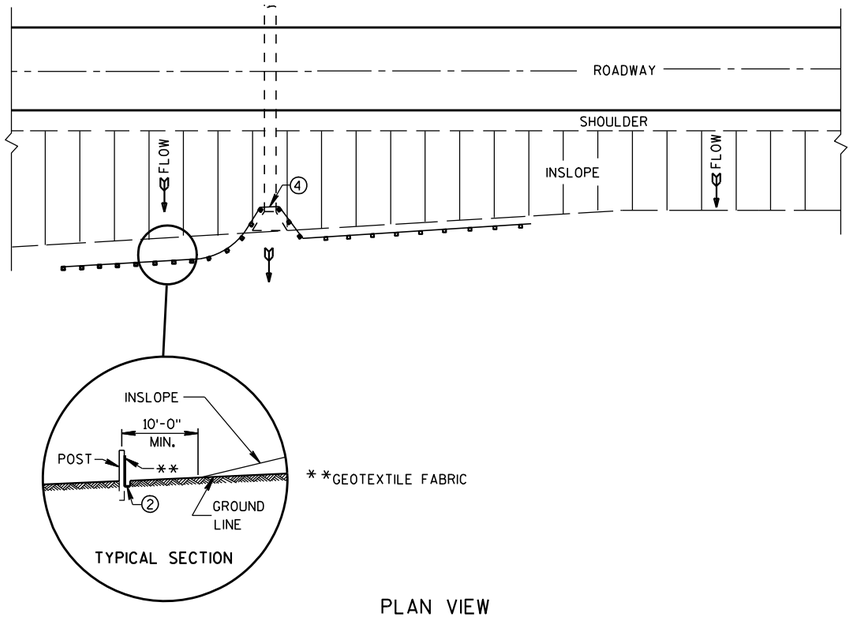
PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

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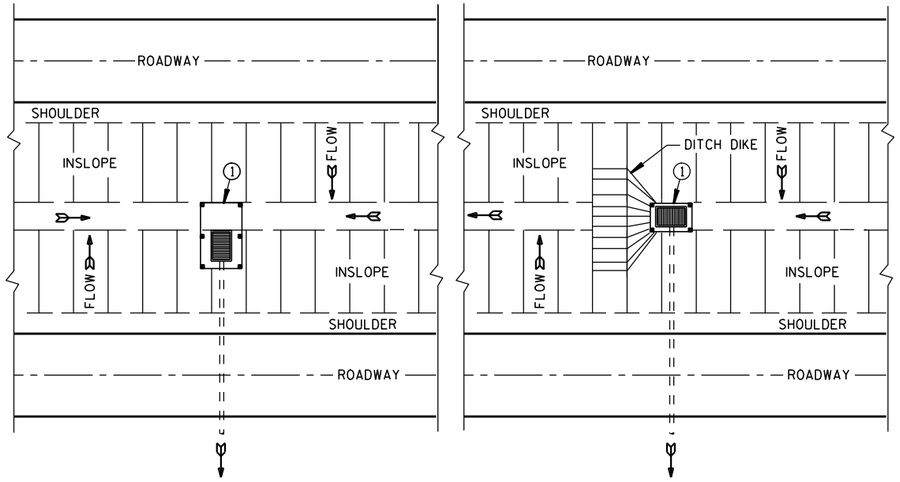
EDGEDRAIN AND BASE AGGREGATE OPEN GRADED	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept. 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPE
FHWA	

S.D.D. 8 D 15-5c



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



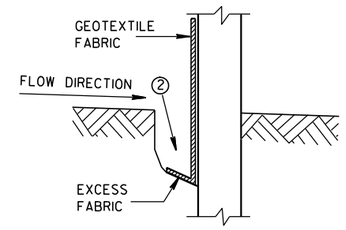
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

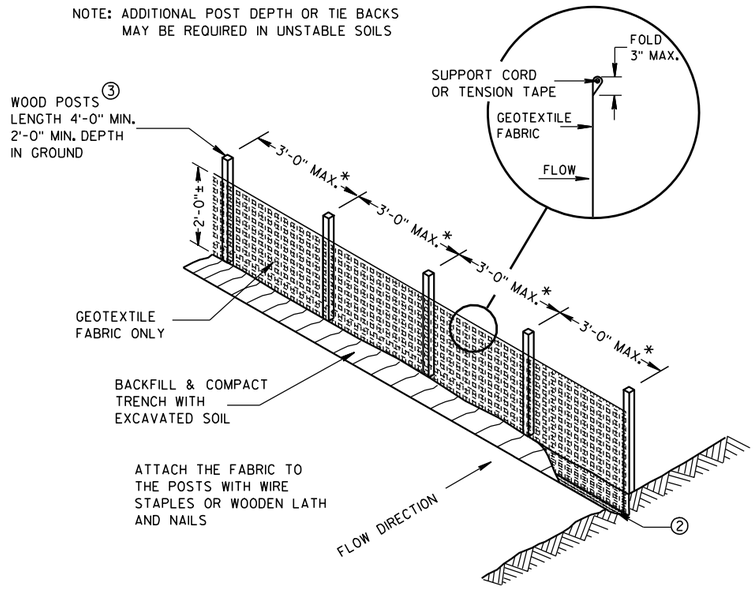
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

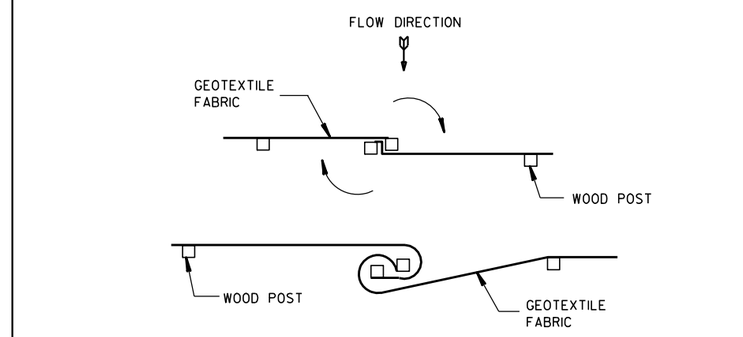


TRENCH DETAIL

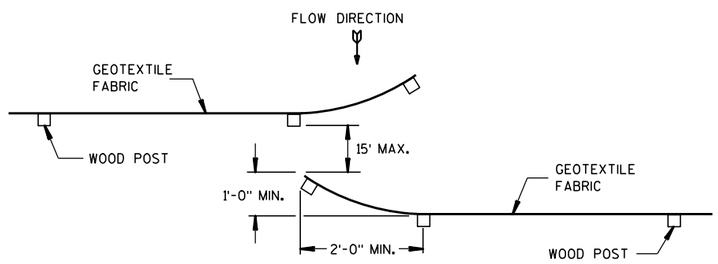


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

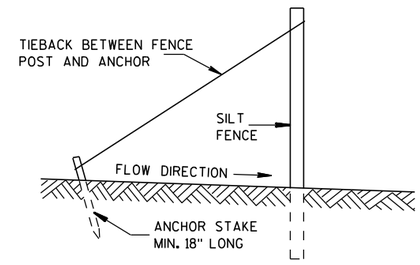


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

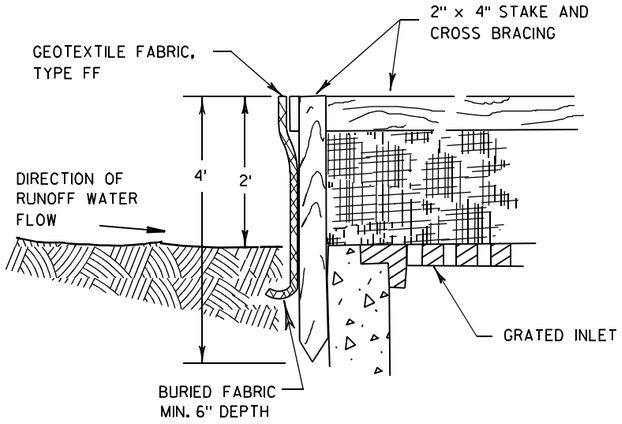
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

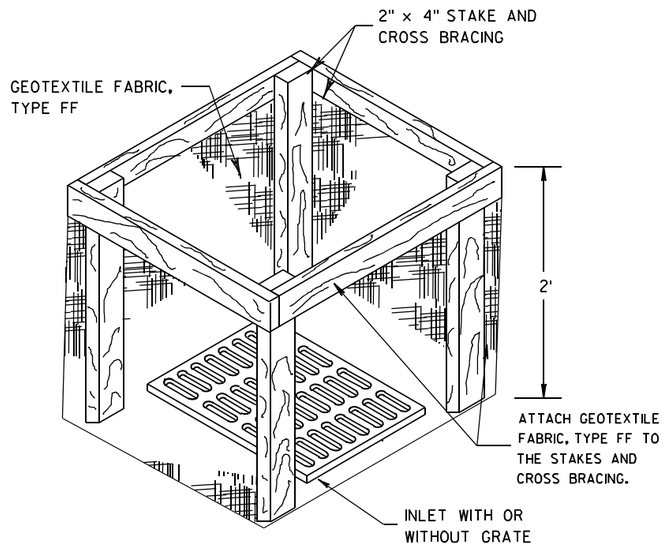
6

S.D.D. 8 E 9-6

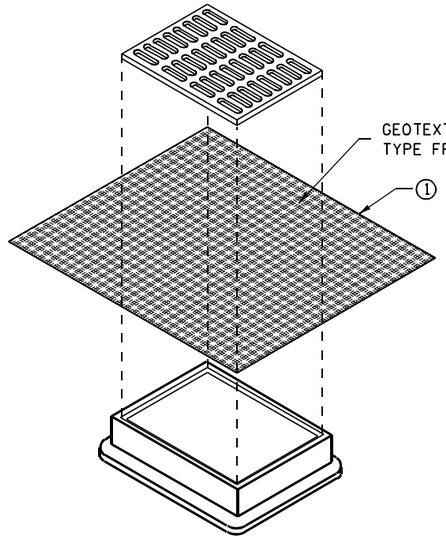
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S.D.D. 8 E 9-6



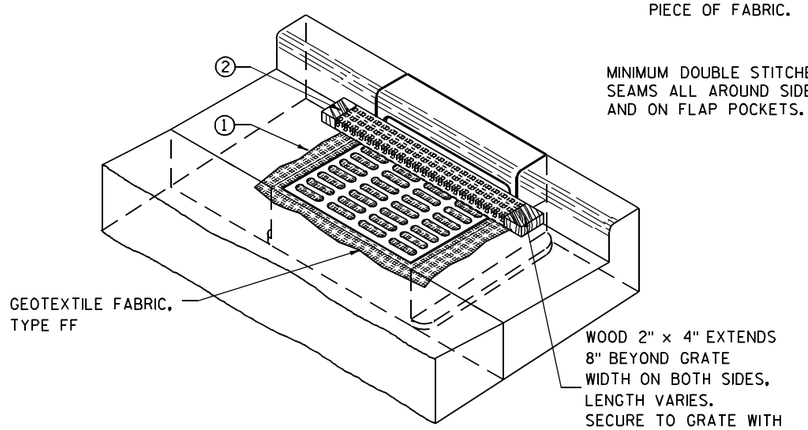


INLET PROTECTION, TYPE A

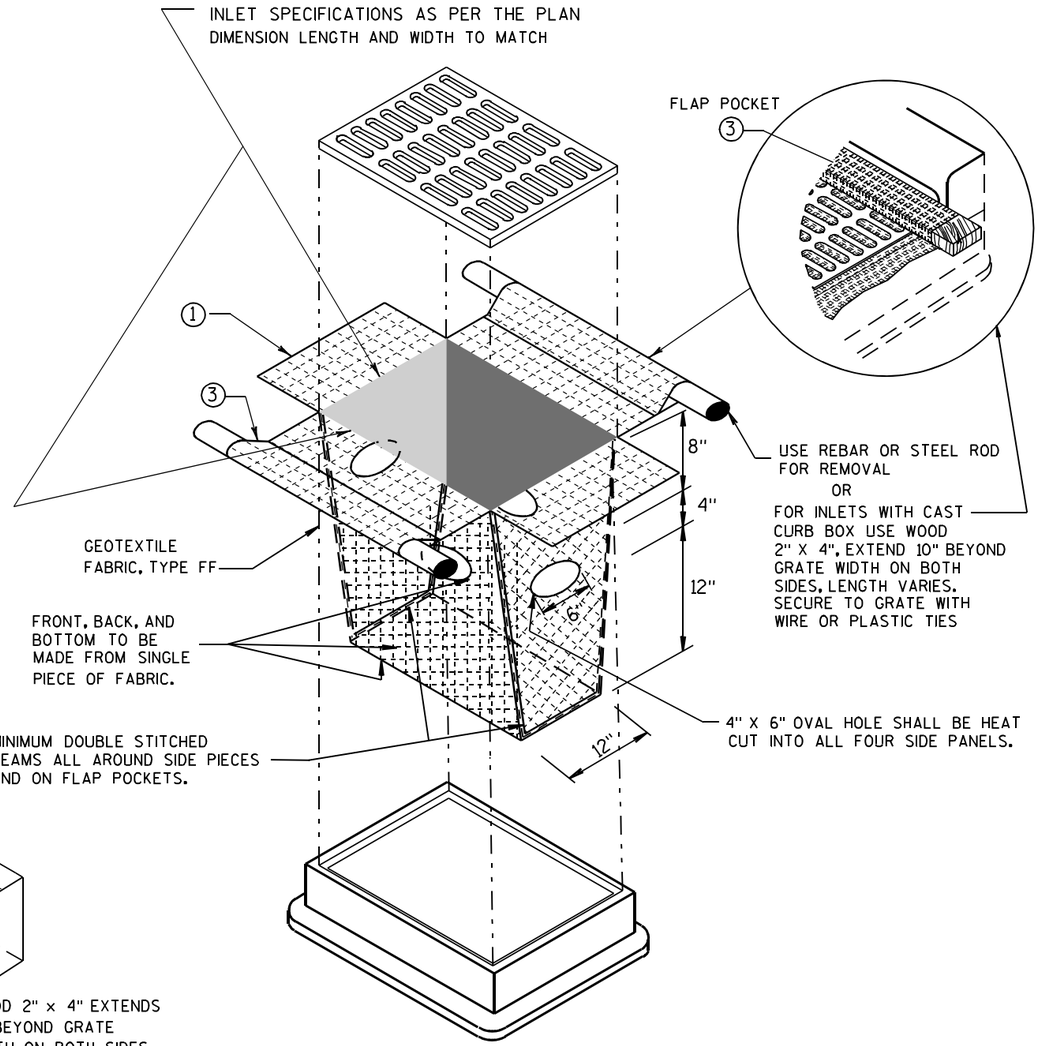


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

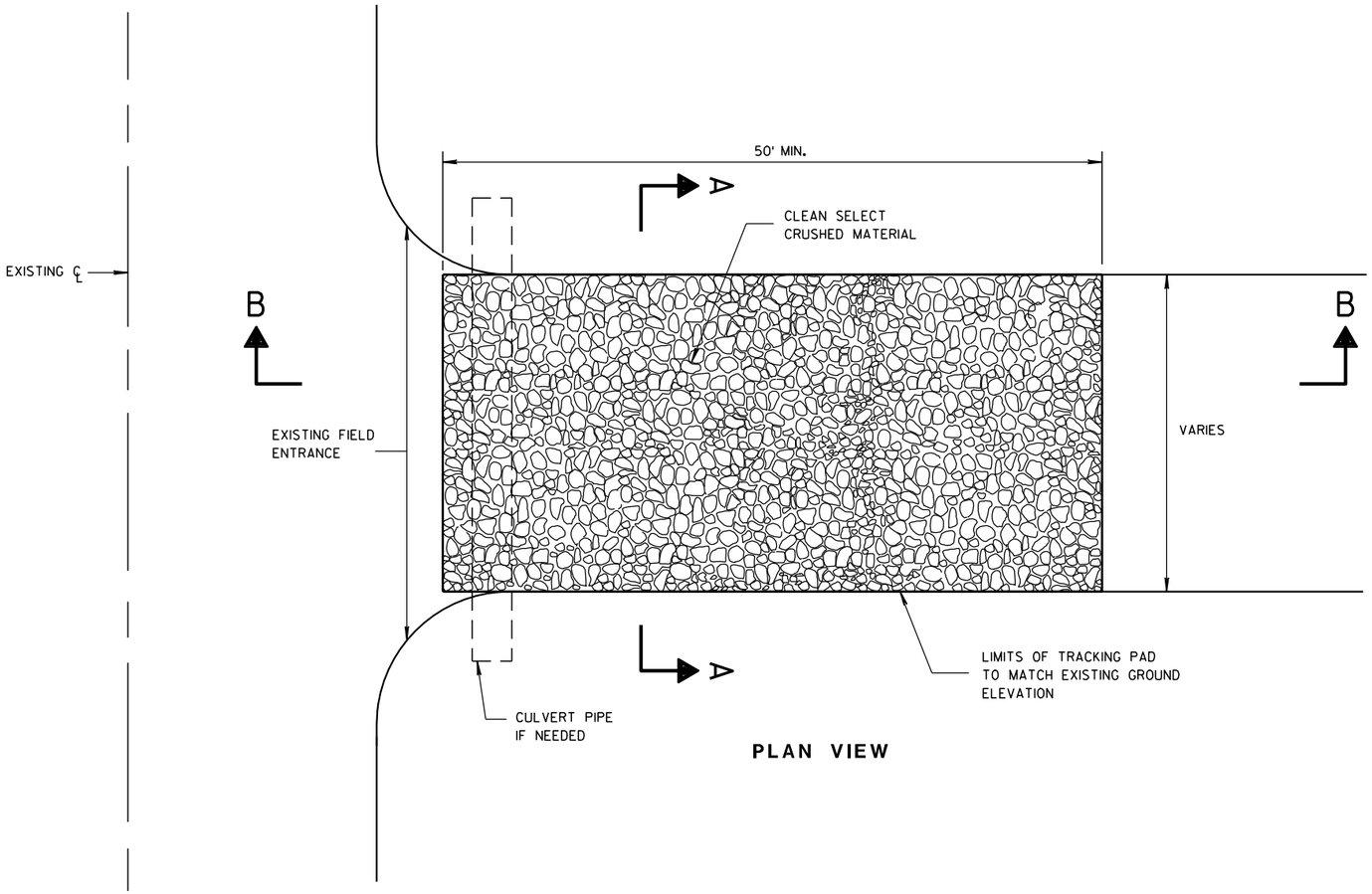
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

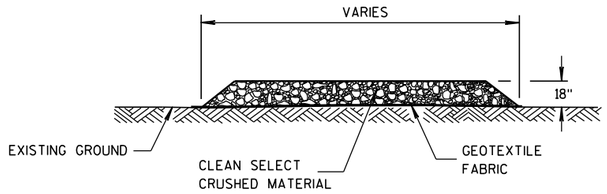
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

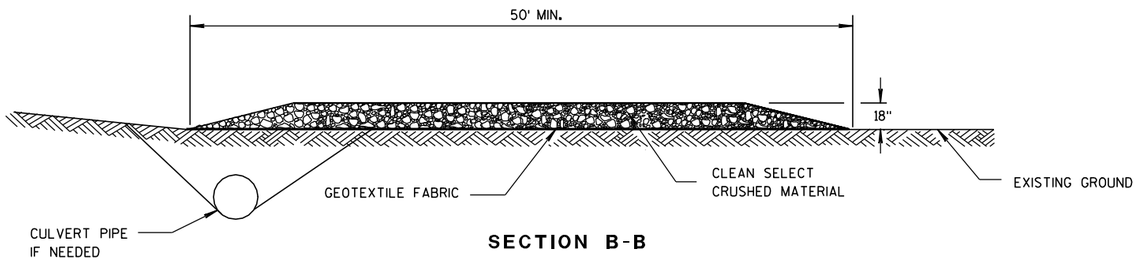
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



PLAN VIEW



SECTION A-A



SECTION B-B

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

METAL APRON ENDWALLS

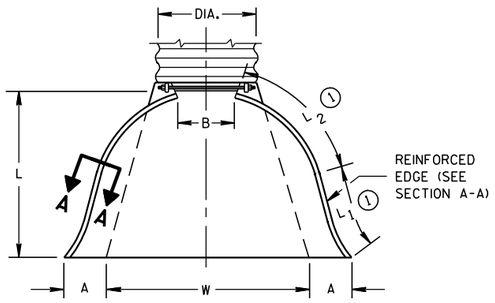
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

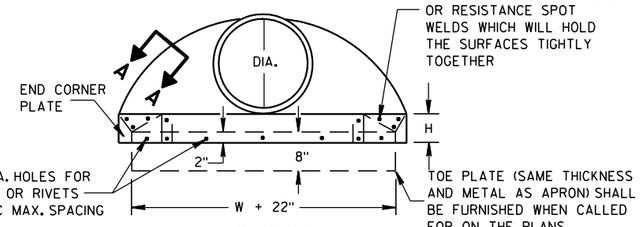
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

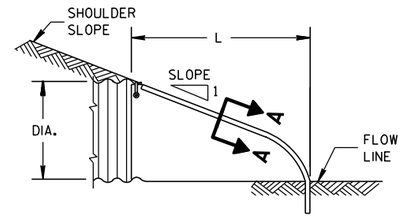
*MINIMUM
**MAXIMUM



PLAN VIEW

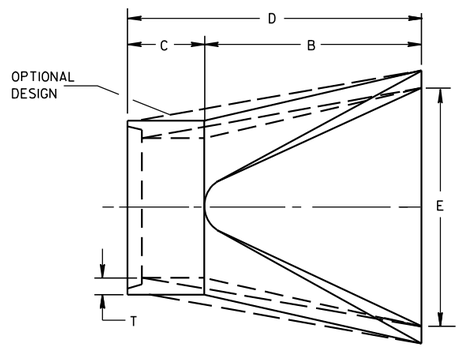


END VIEW

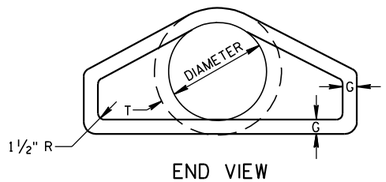


SIDE ELEVATION

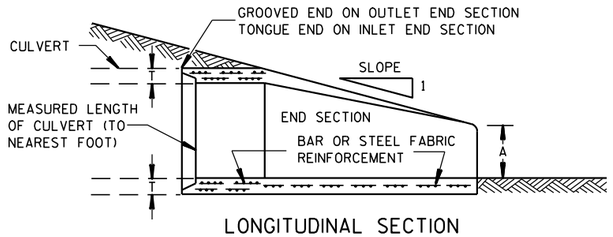
METAL ENDWALLS



PLAN

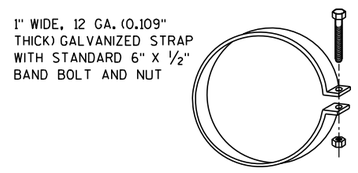


END VIEW



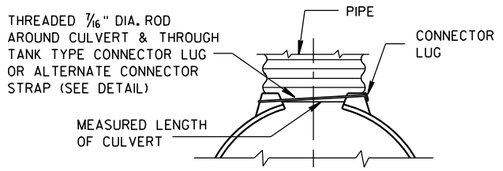
LONGITUDINAL SECTION

CONCRETE ENDWALLS

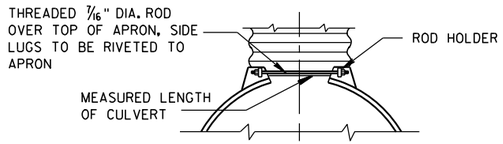


ALTERNATE FOR TYPE 1 CONNECTION

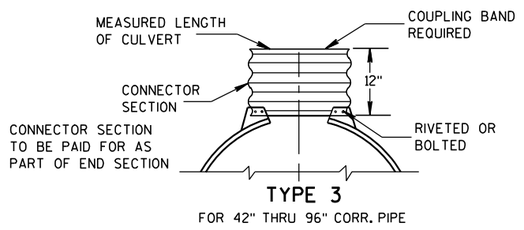
END SECTION CONNECTOR STRAP



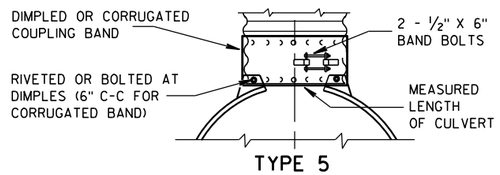
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

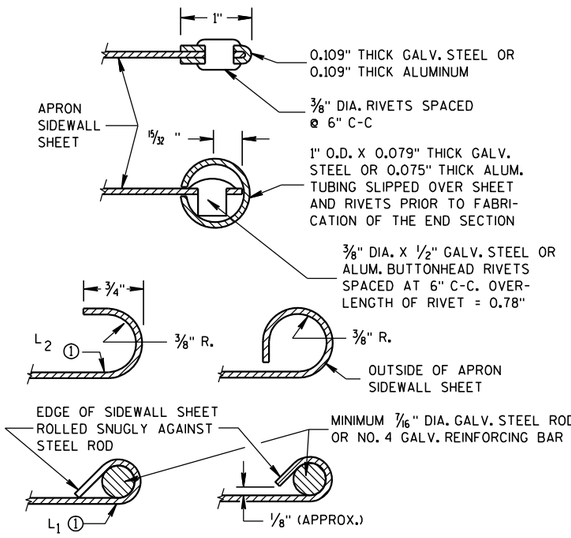
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

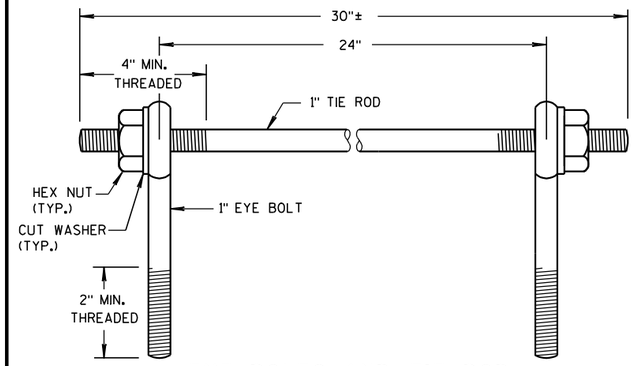
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

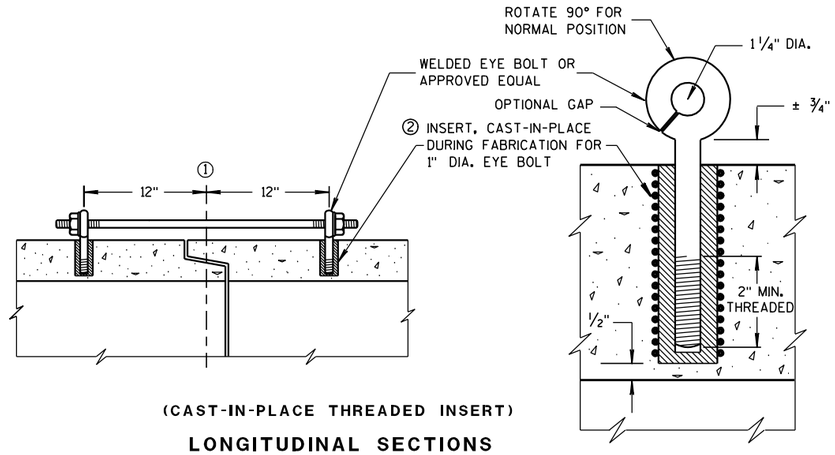
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 703 NEER
FHWA

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S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

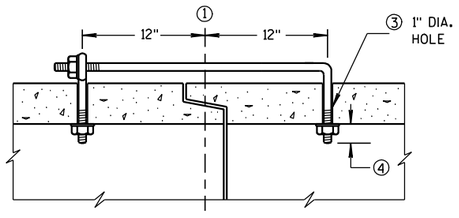
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

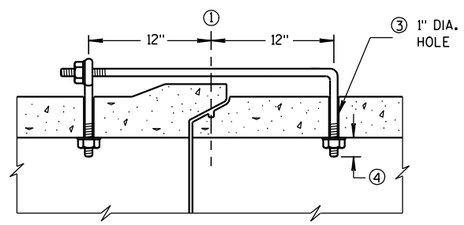
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

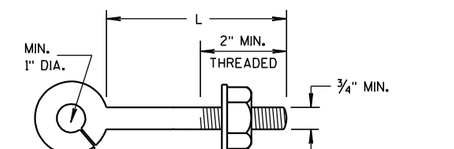


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

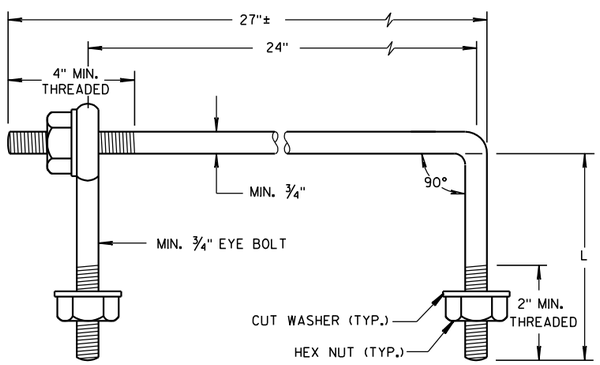
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

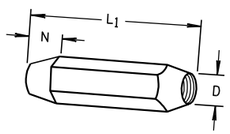
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

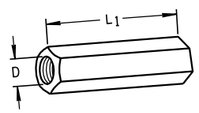
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



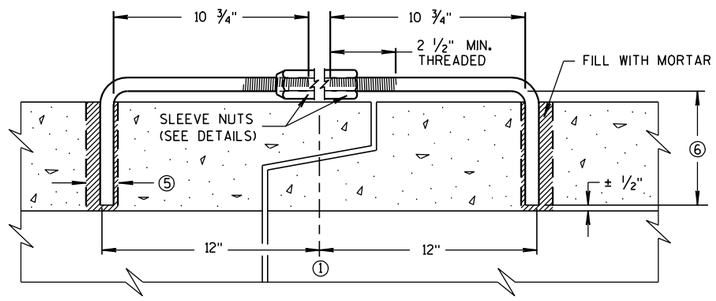
TAPERED



PLAIN

RIGHT AND LEFT THREADS

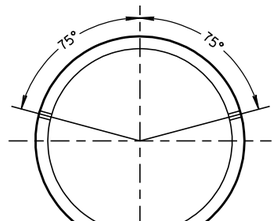
SLEEVE NUTS



LONGITUDINAL SECTION

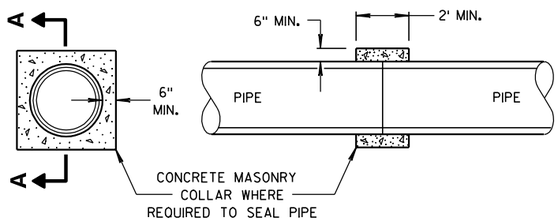
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
704 — [illegible]MENT

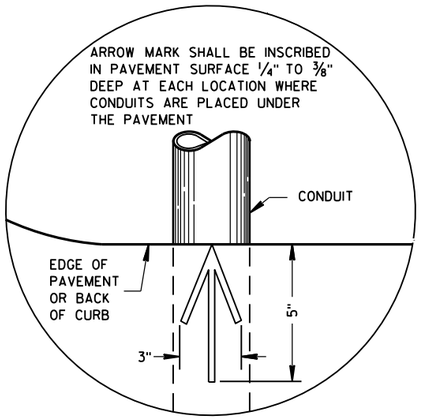
FHWA

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S.D.D. 8 F 4-7

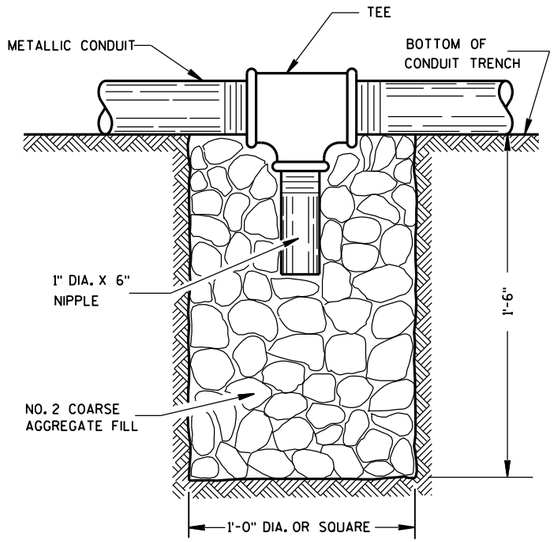
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S.D.D. 8 F 4-7



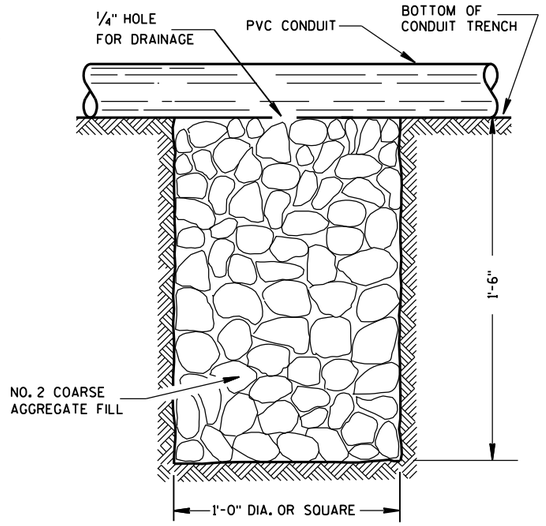
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

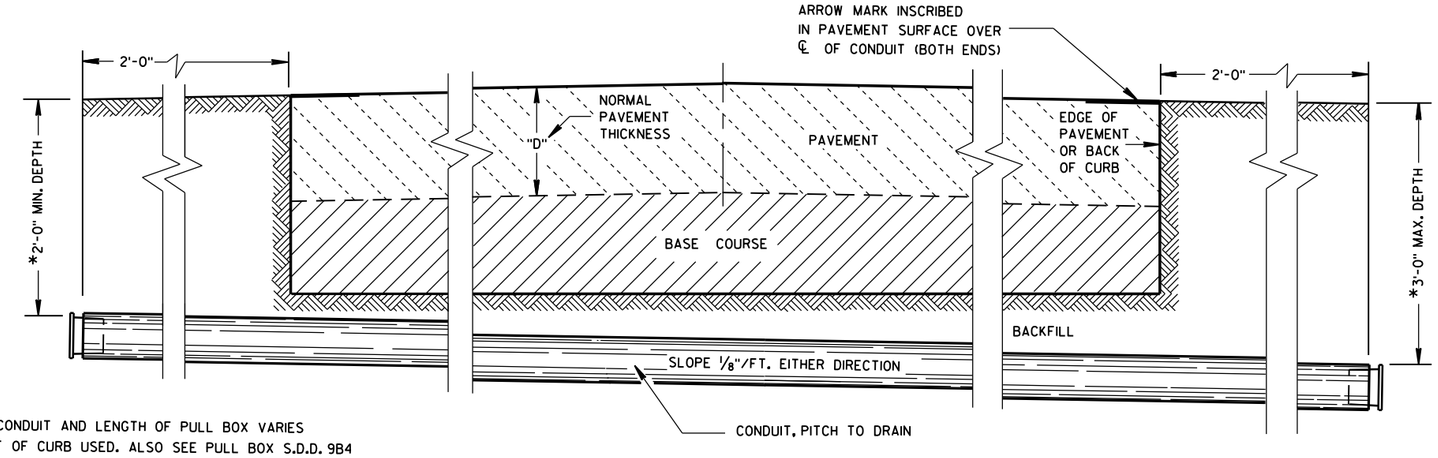
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 705
FHWA

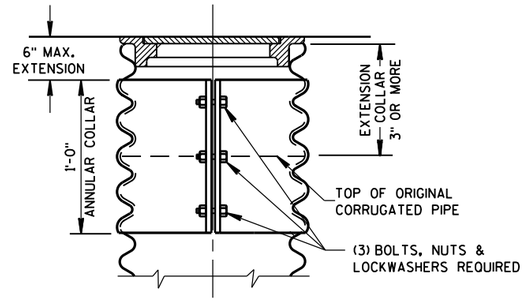
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S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

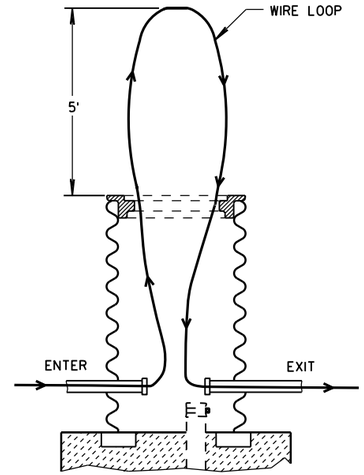
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

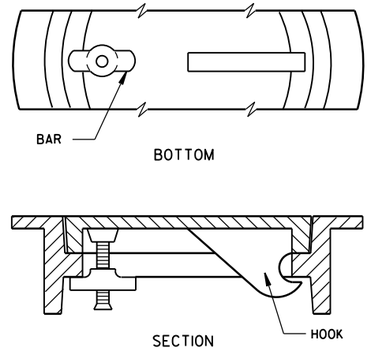
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

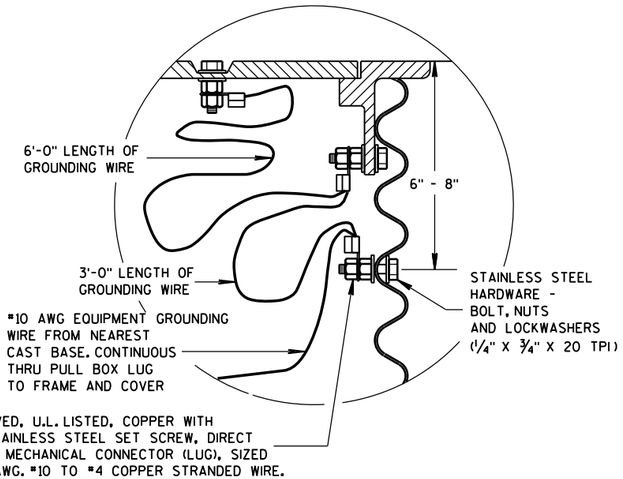


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

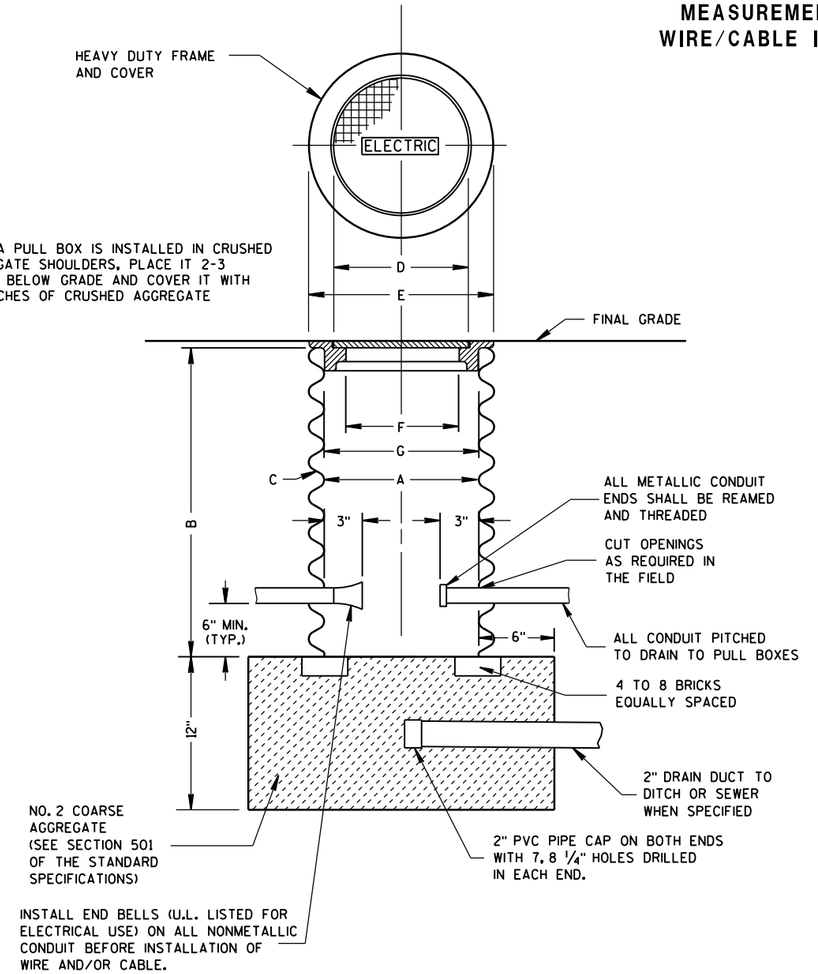
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

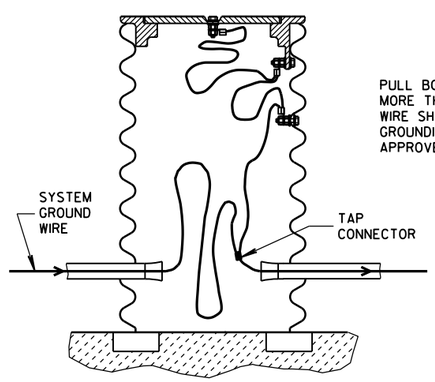
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

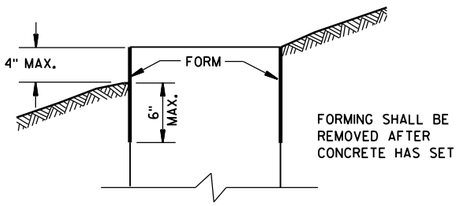
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 706
FHWA

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

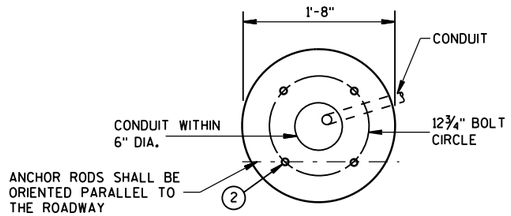
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

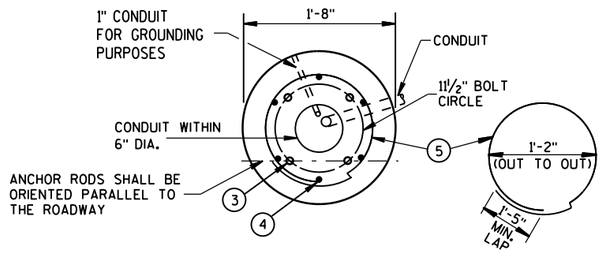
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

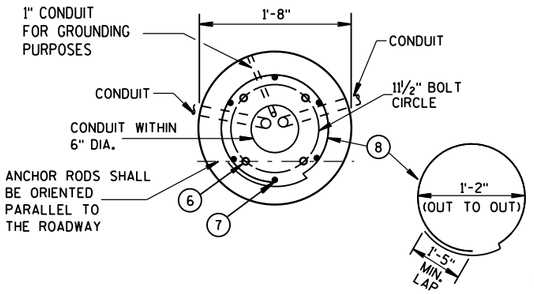
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



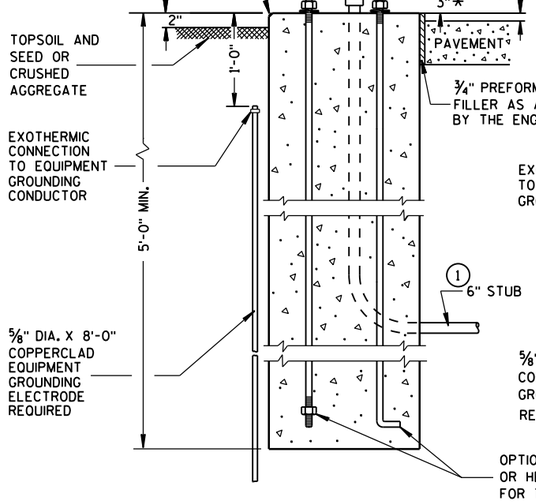




FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

HALF SECTION IN UNPAVED AREA

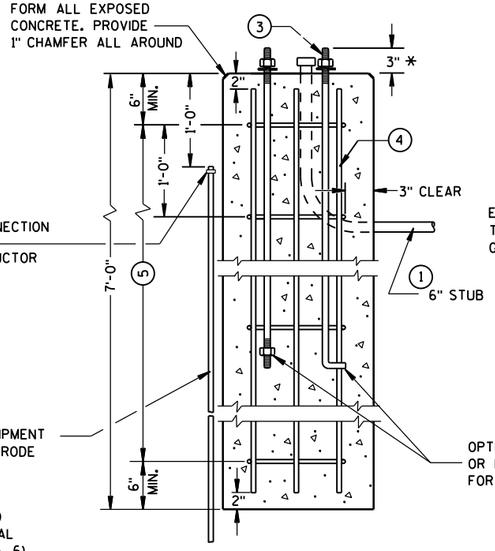
(TYPICAL FOR TYPES 1, 2, 5, & 6)



HALF SECTION IN PAVEMENT

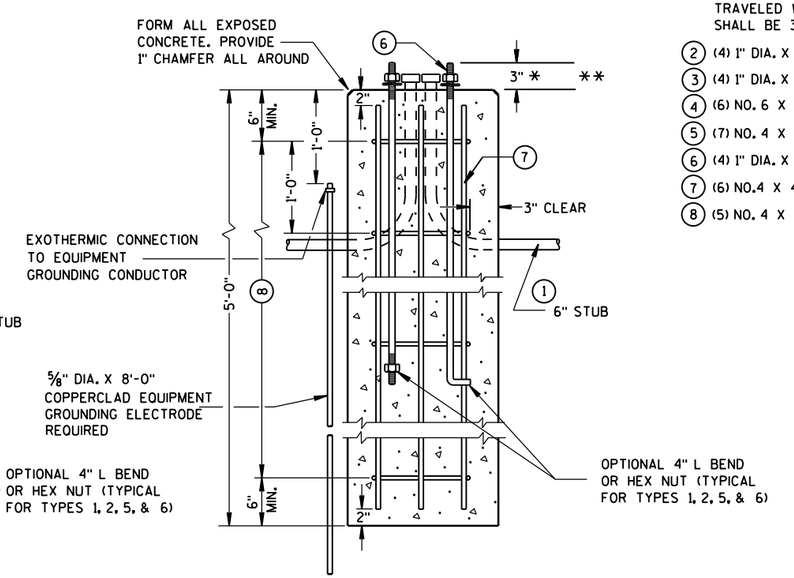
(TYPICAL FOR TYPES 1, 2, 5, & 6)

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 2

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 707
FHWA

6

S.D.D. 9 C 2-7

6

S.D.D. 9 C 2-7

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

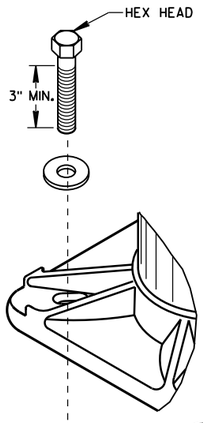
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

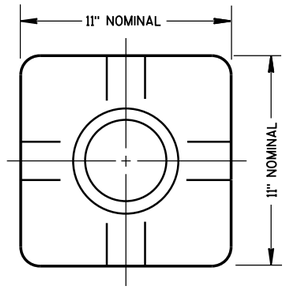
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

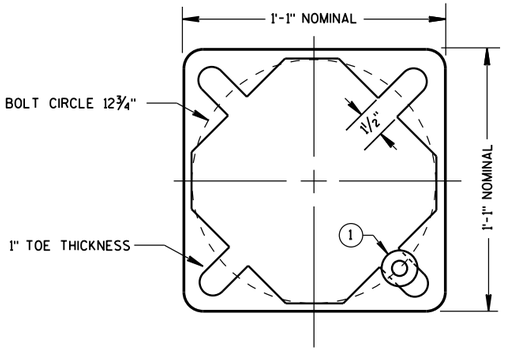
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

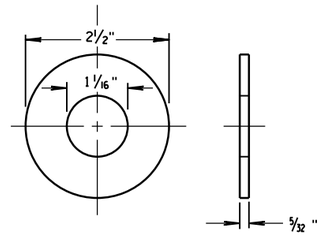




TOP VIEW
(PEDESTAL BASE)

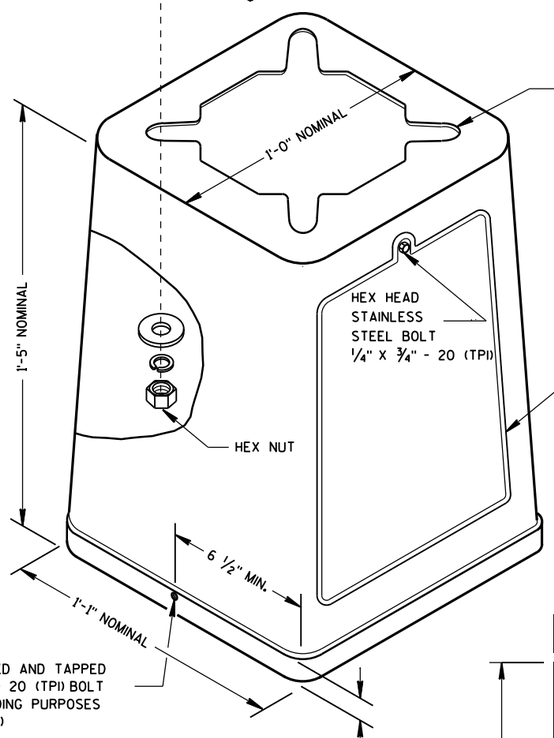


BOTTOM VIEW
(PEDESTAL BASE)

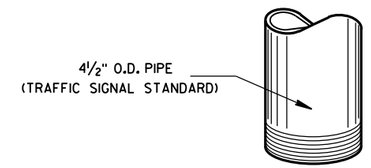


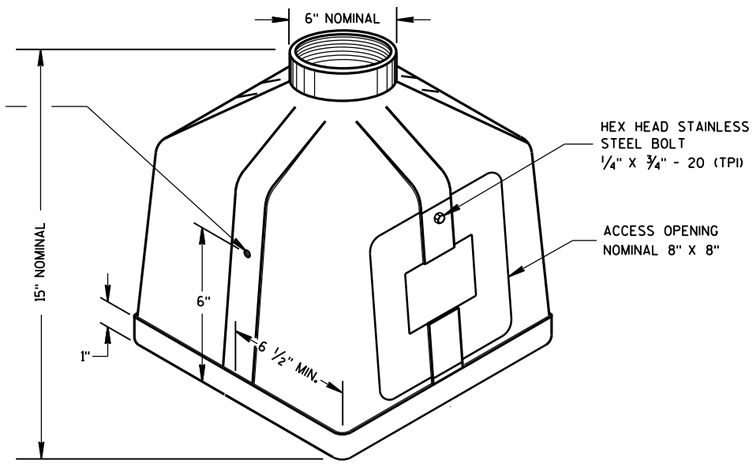
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



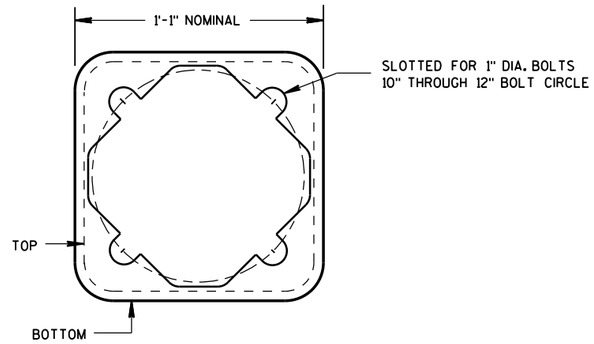
ISOMETRIC VIEW



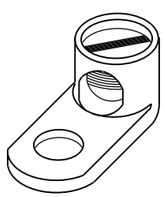


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

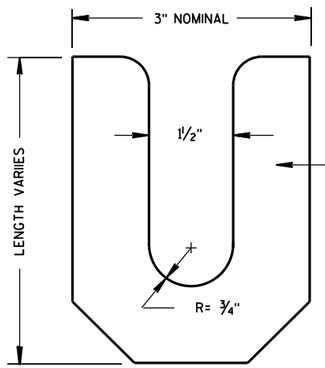


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

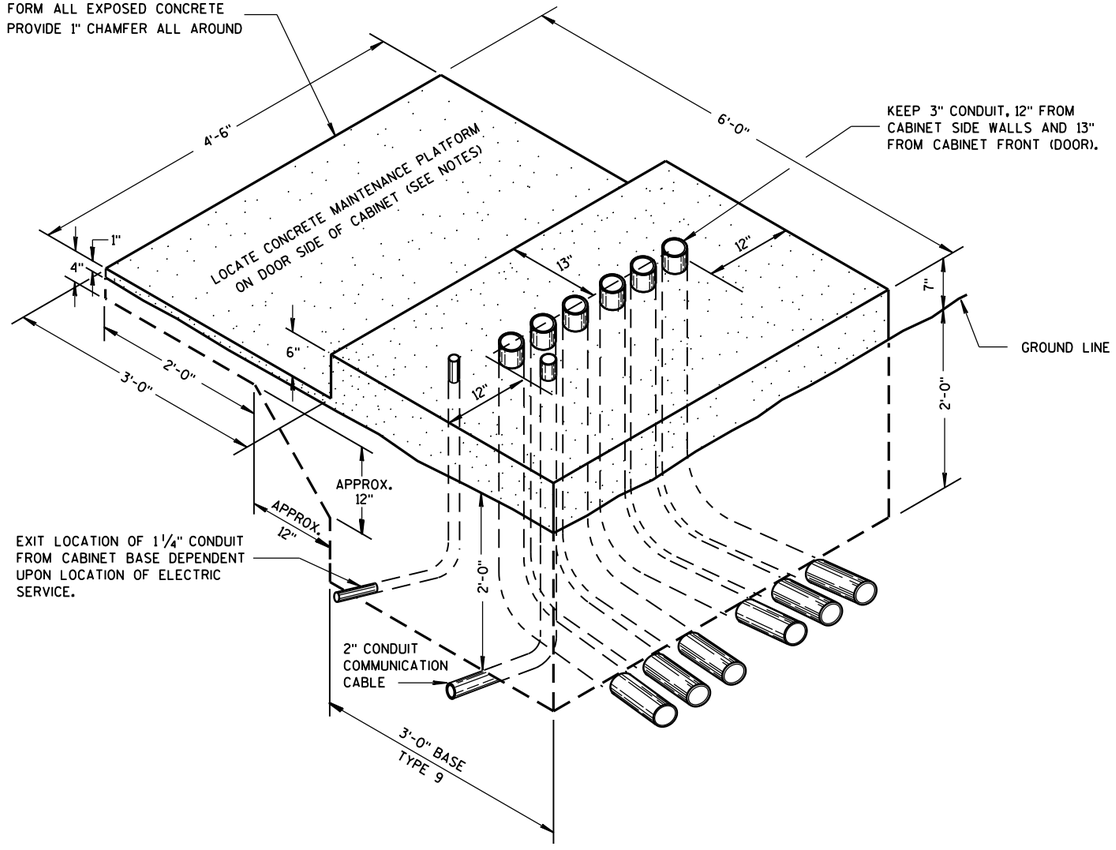
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708
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S.D.D. 9 C 3-4

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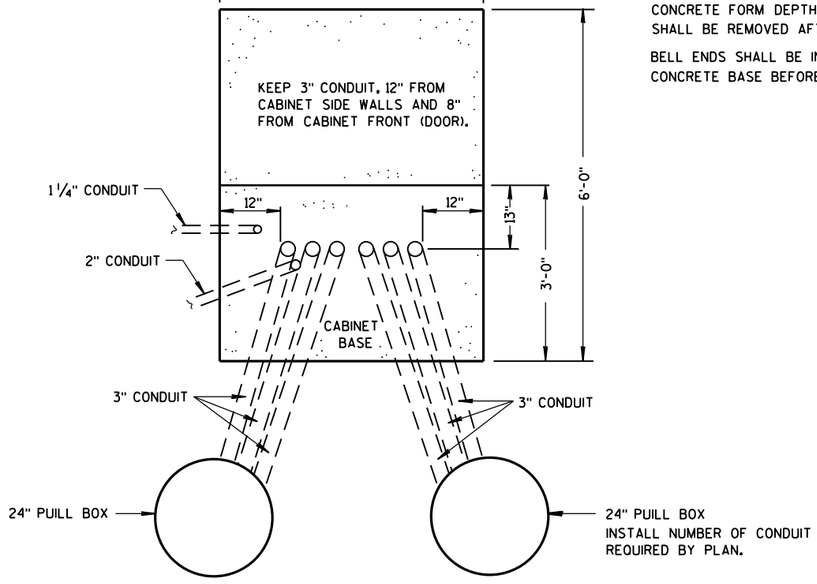
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

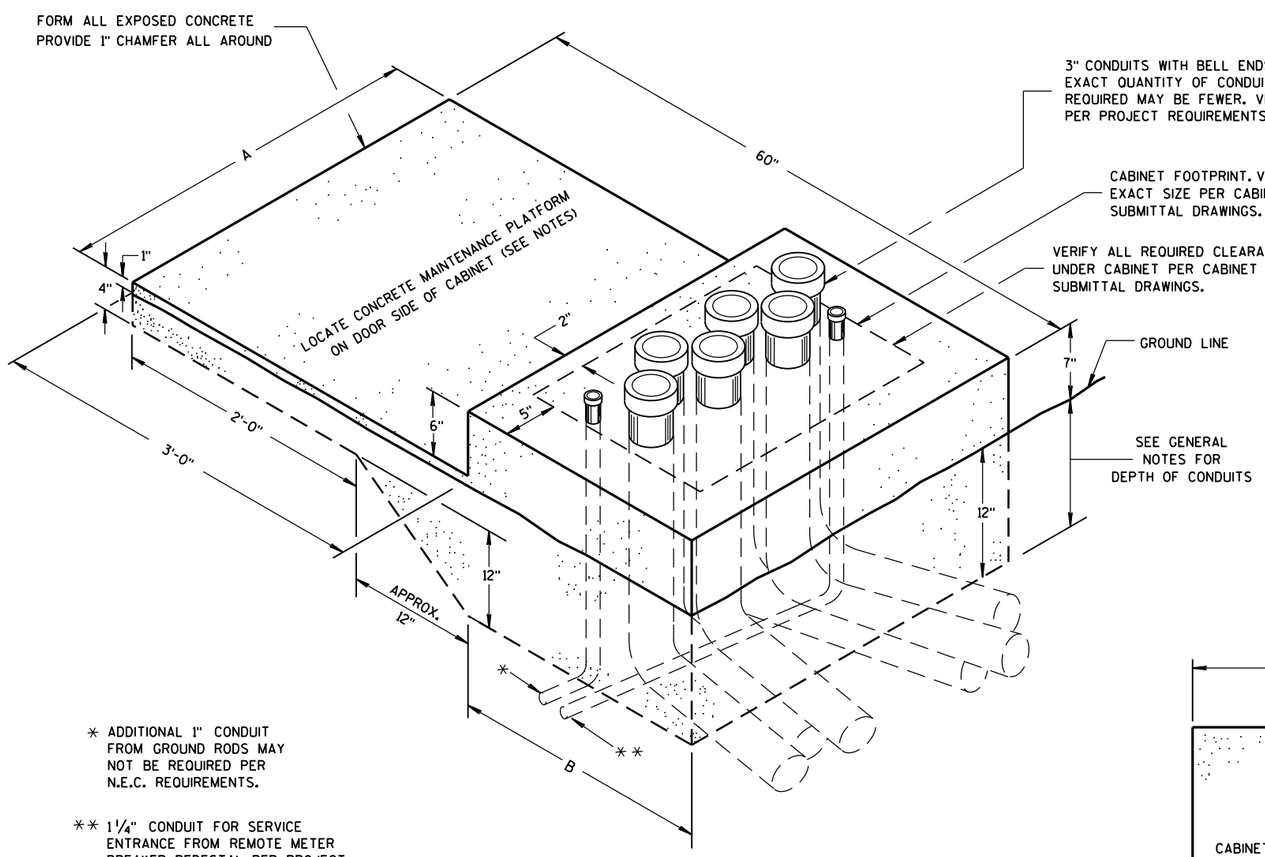
BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

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* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

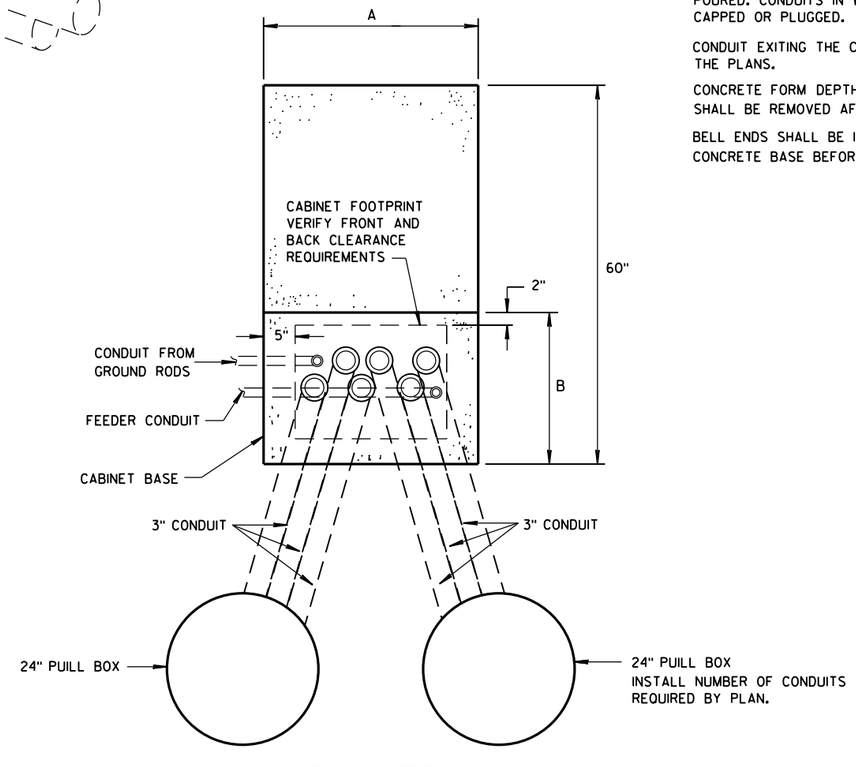
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

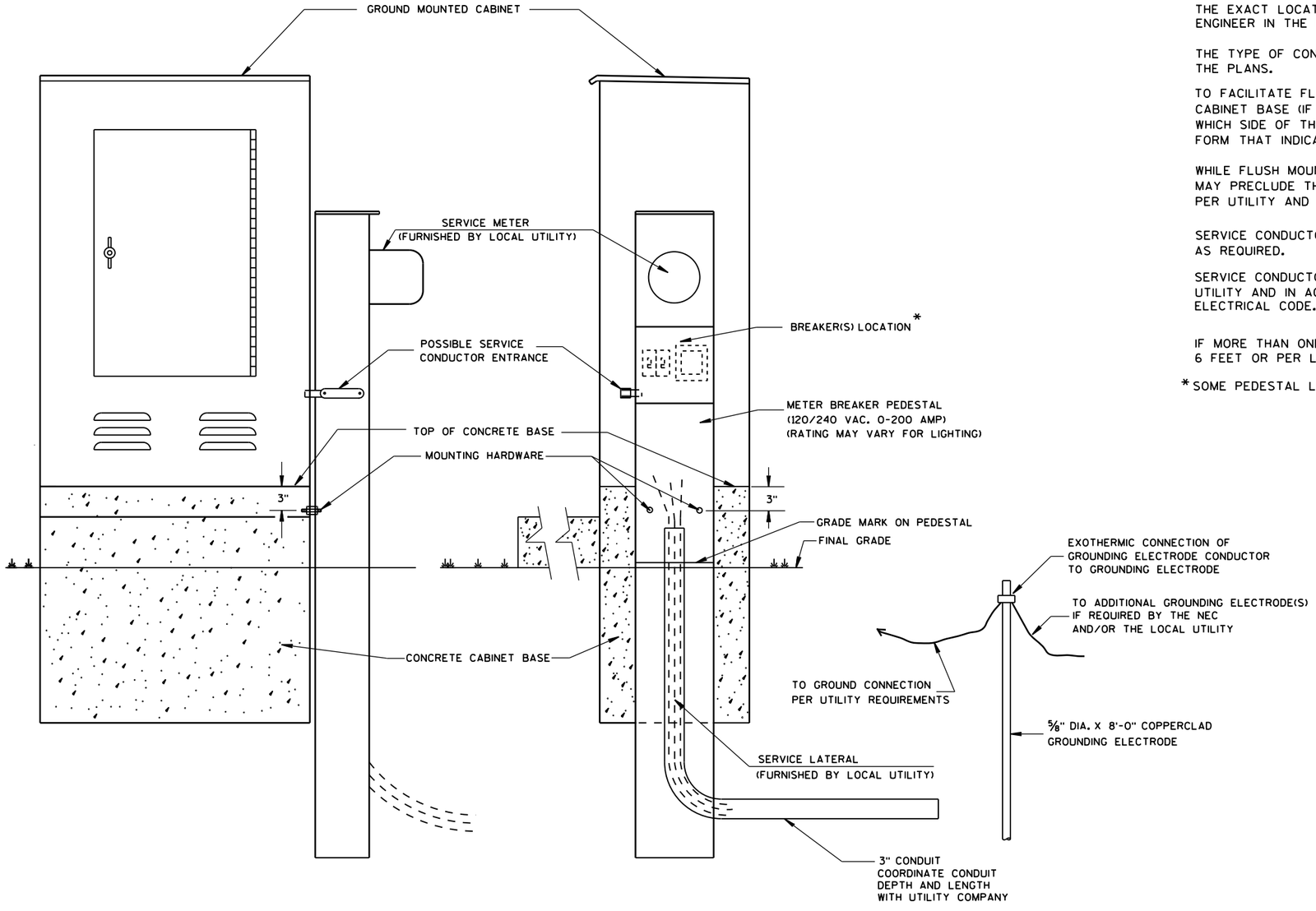
BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE
710
WYS
FHWA

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TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

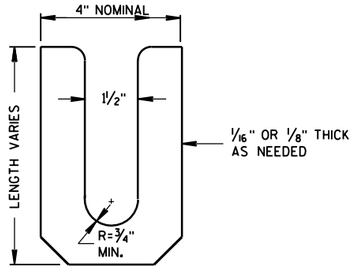
*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

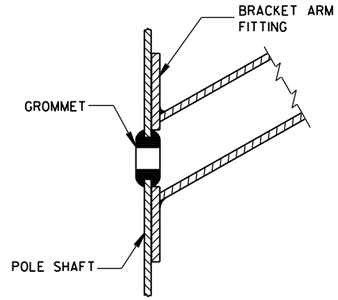
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 D 1-5

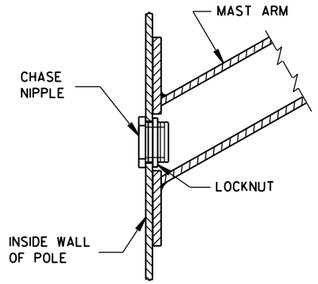


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

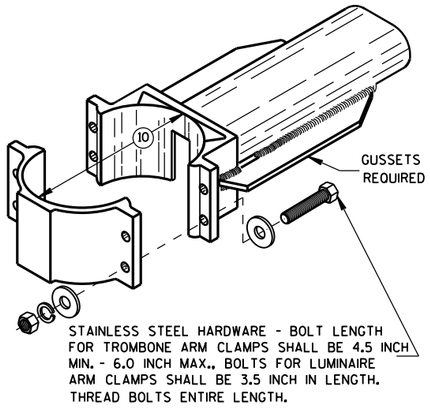
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

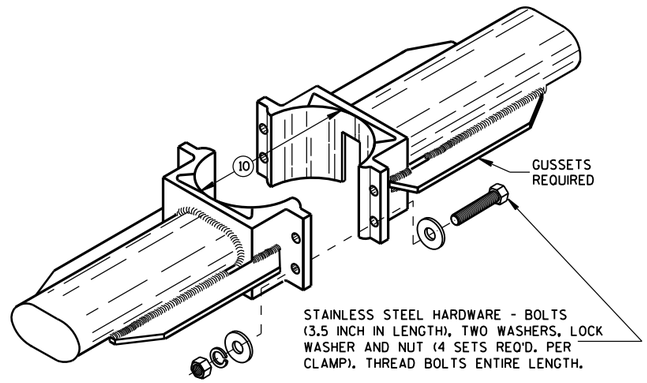
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

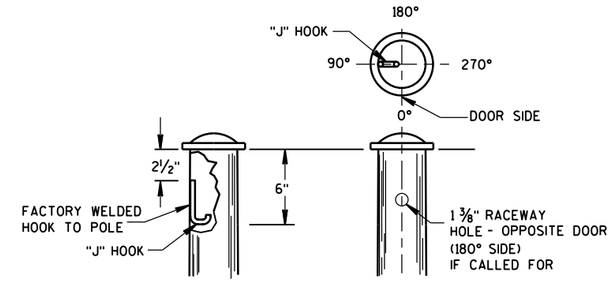
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



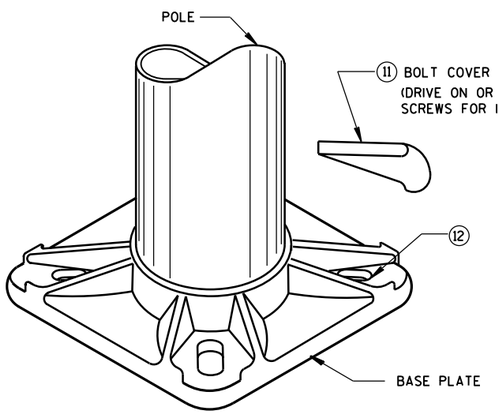
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



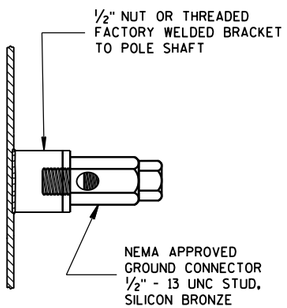
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

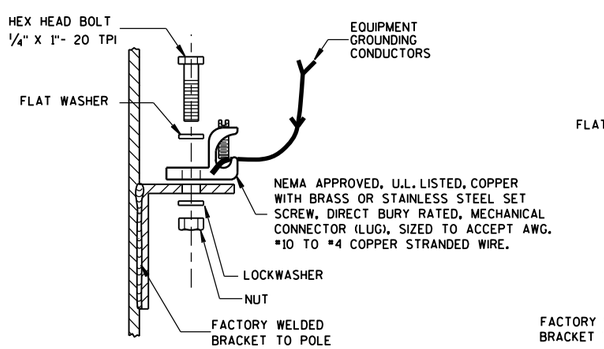


TYPICAL "J" HOOK LOCATION



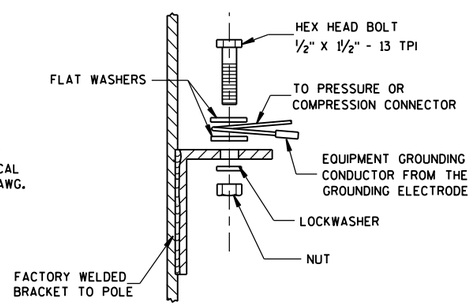
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

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DEPARTMENT OF TRANSPORTATION

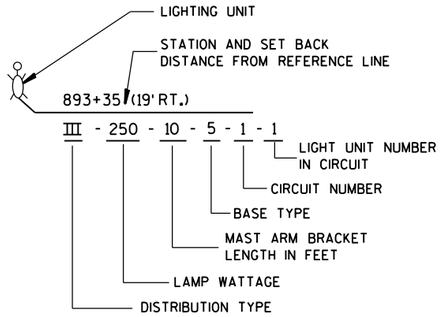
APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

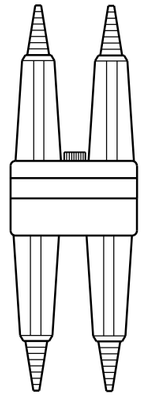
FHWA

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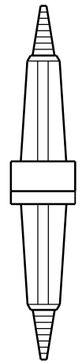
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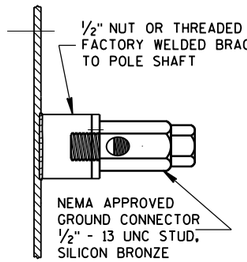
LIGHTING UNIT CODE
(TYPICAL)

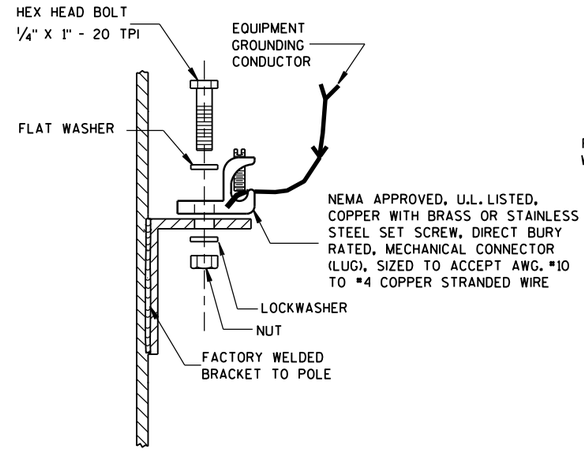


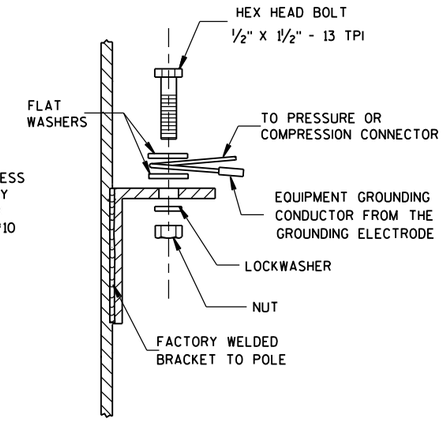
DETAIL "A"
BREAKAWY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT



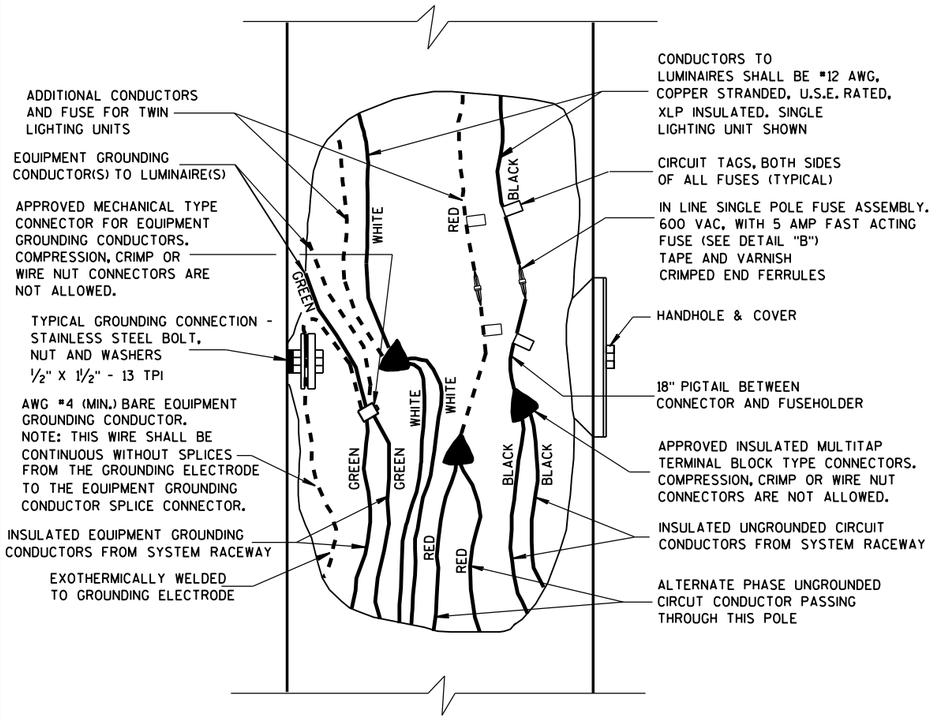
DETAIL "B"
BREAKAWY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



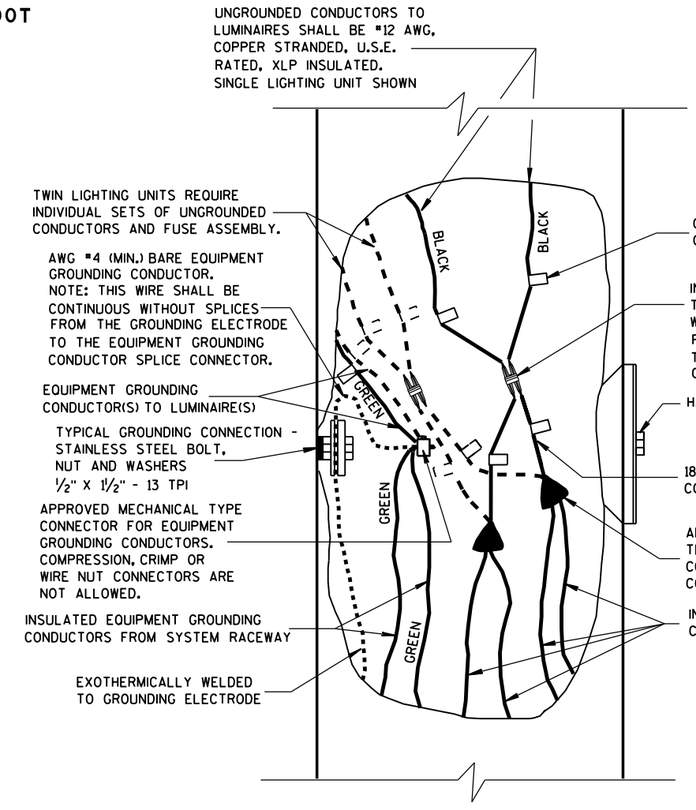




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

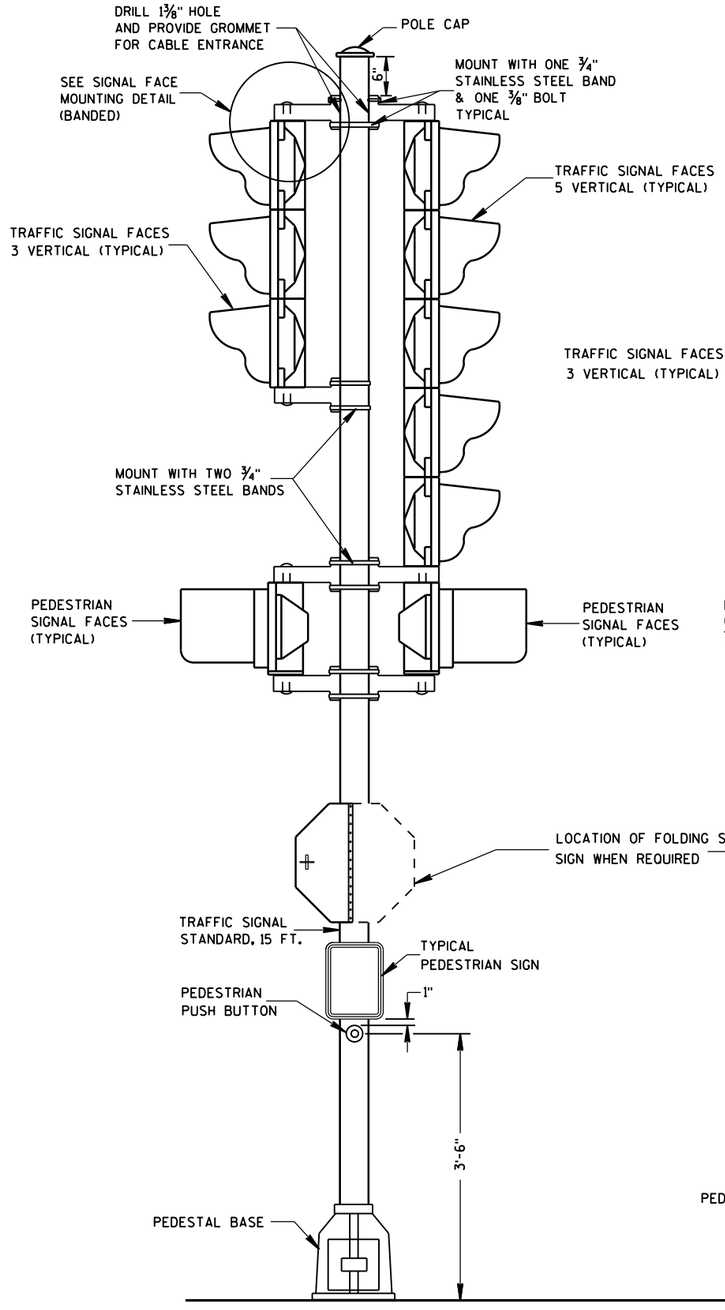
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

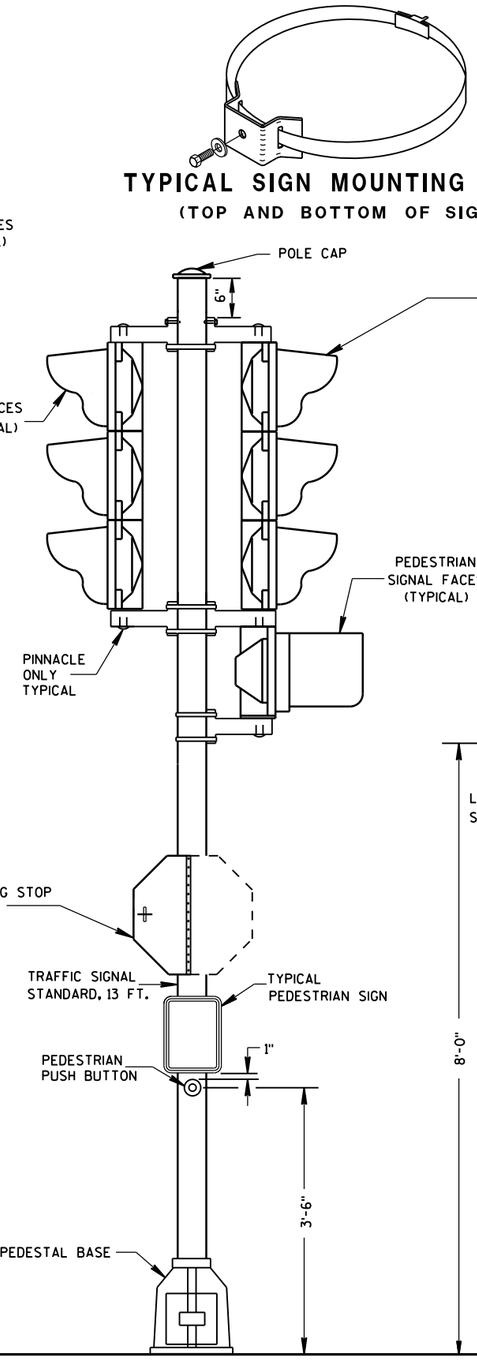
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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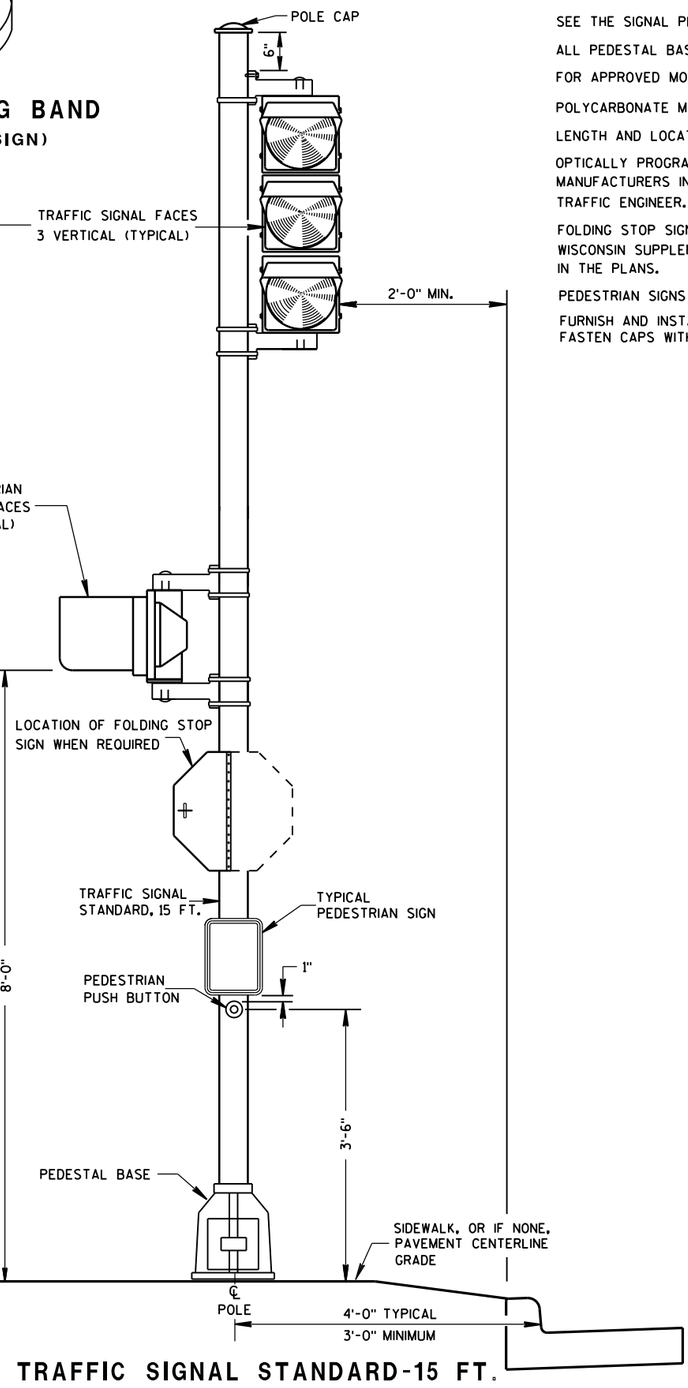


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

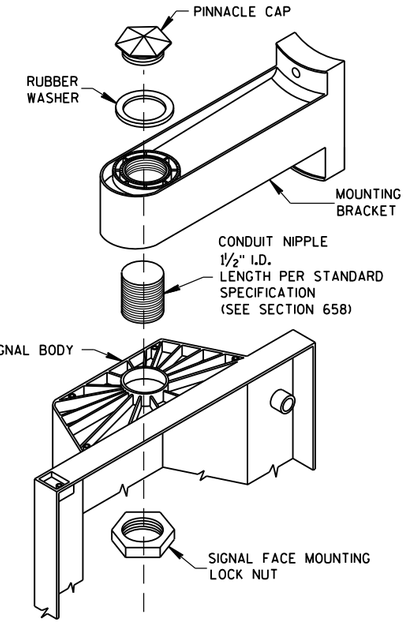
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



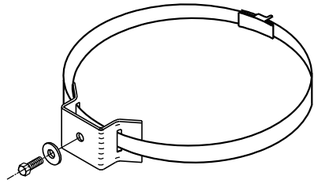
SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

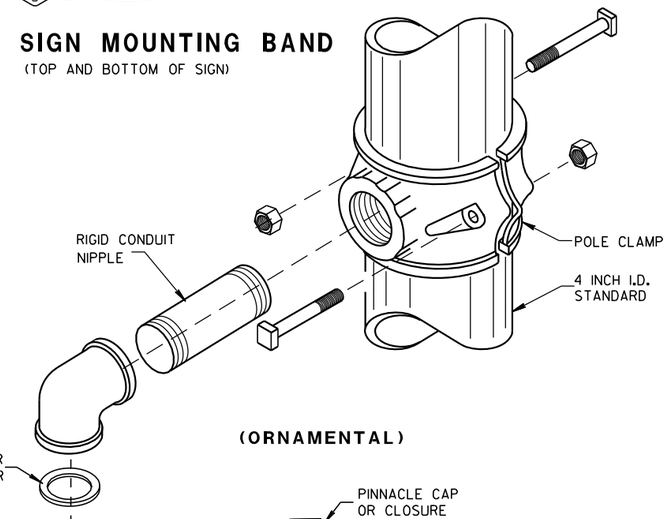
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

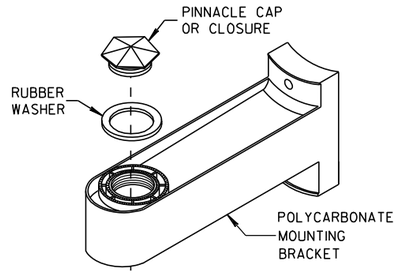
6
S.D.D. 9 E 6-5



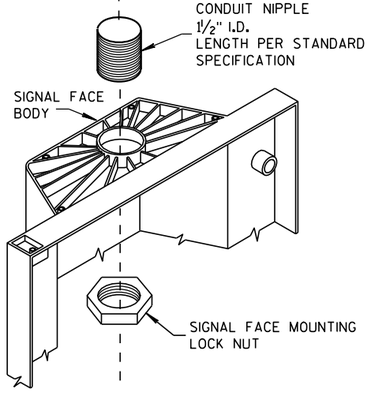
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



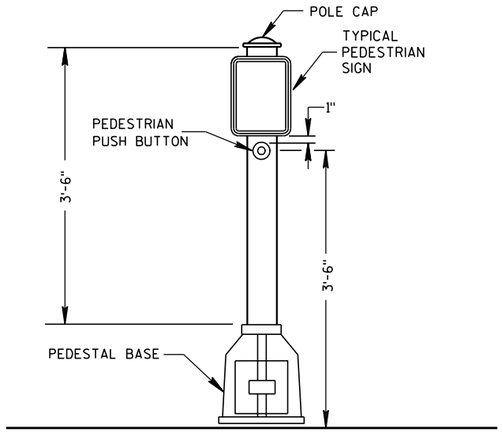
(ORNAMENTAL)



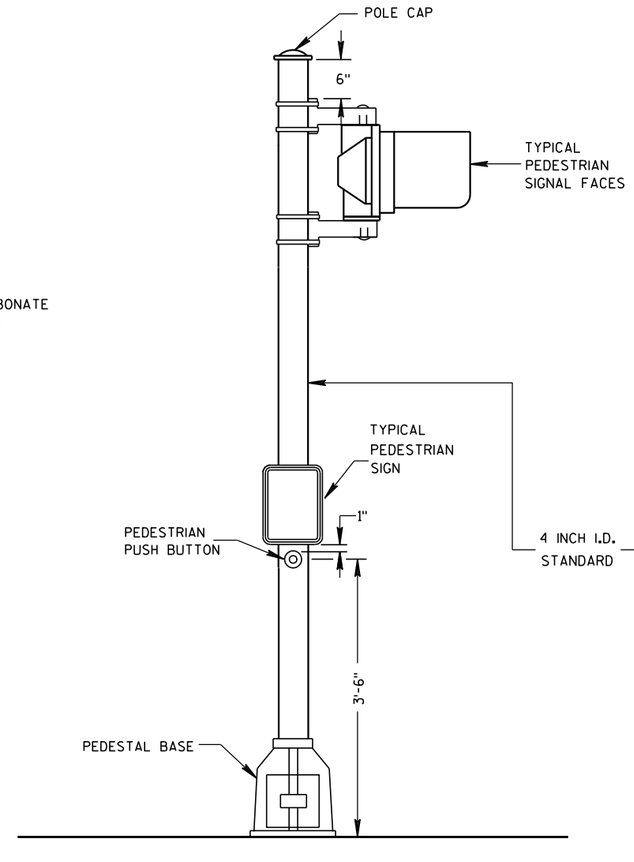
(BANDED)



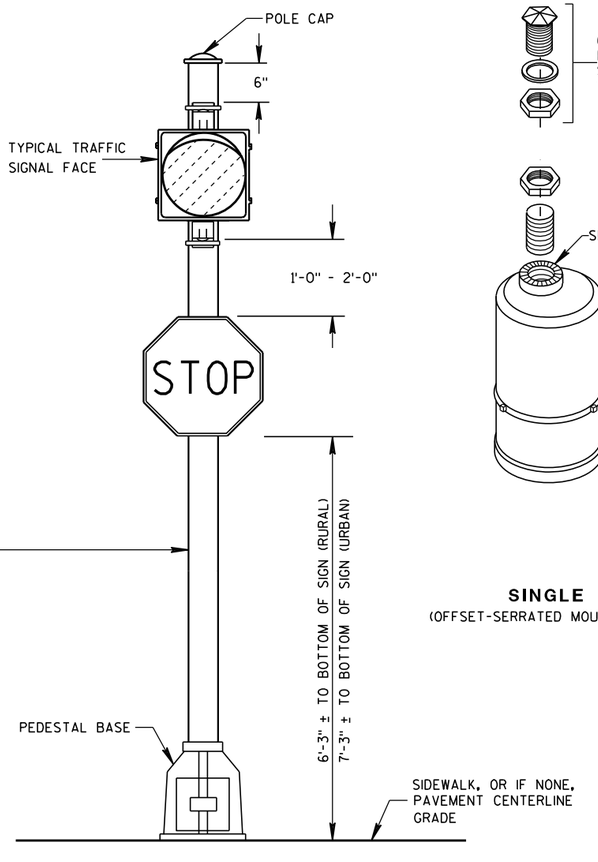
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

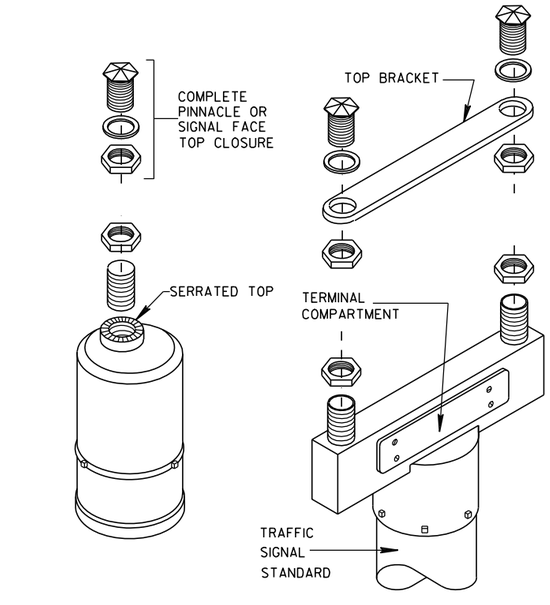
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI 715

HWYS

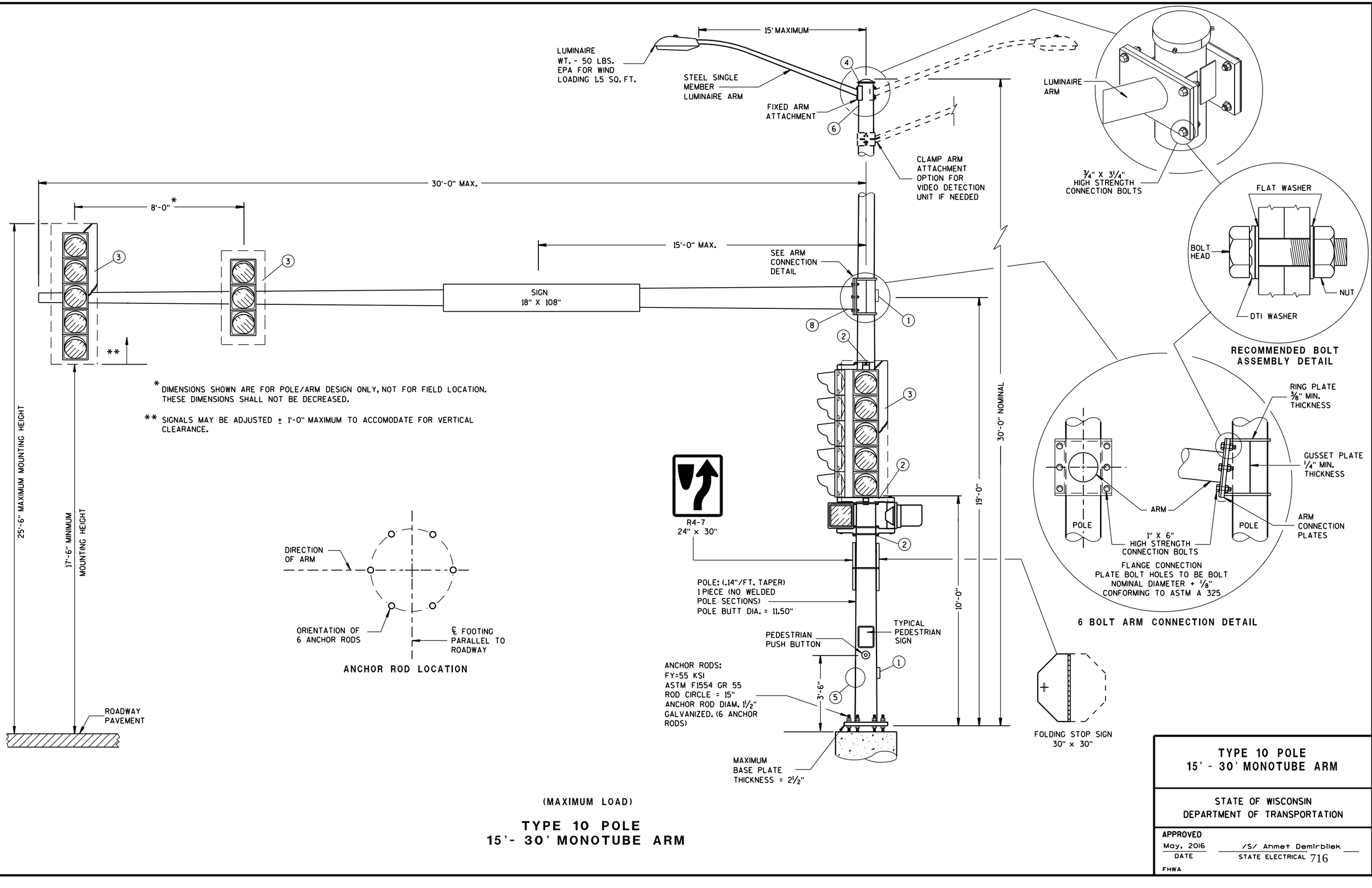
FHWA

6

S.D.D. 9 E 7-5

6

S.D.D. 9 E 7-5



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

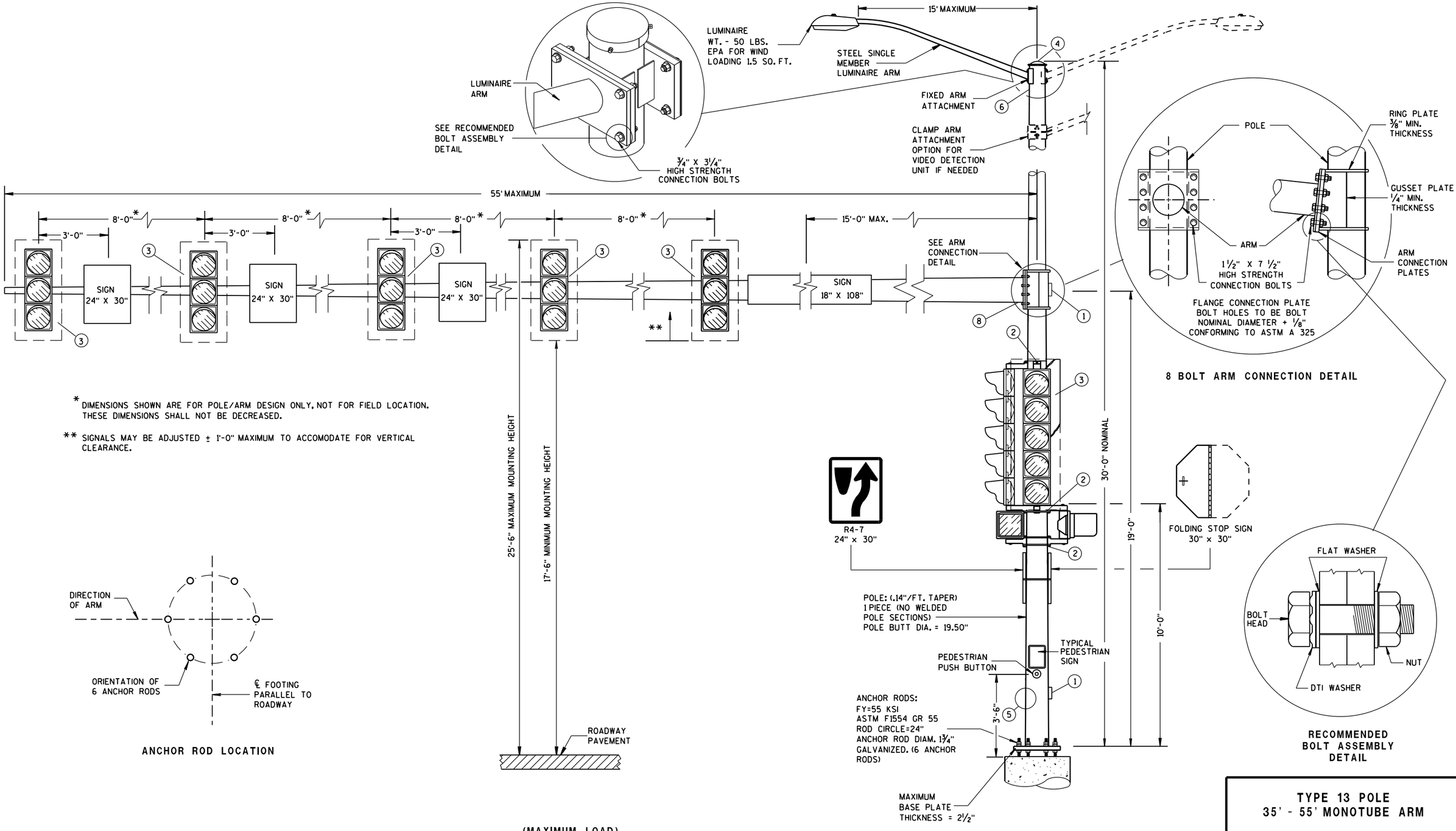
TYPE 10 POLE
15'- 30' MONOTUBE ARM

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 E 8-8b



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

8 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 13 POLE 35'- 55' MONOTUBE ARM

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 717
FHWA

6

S.D.D. 9 E 8-8d

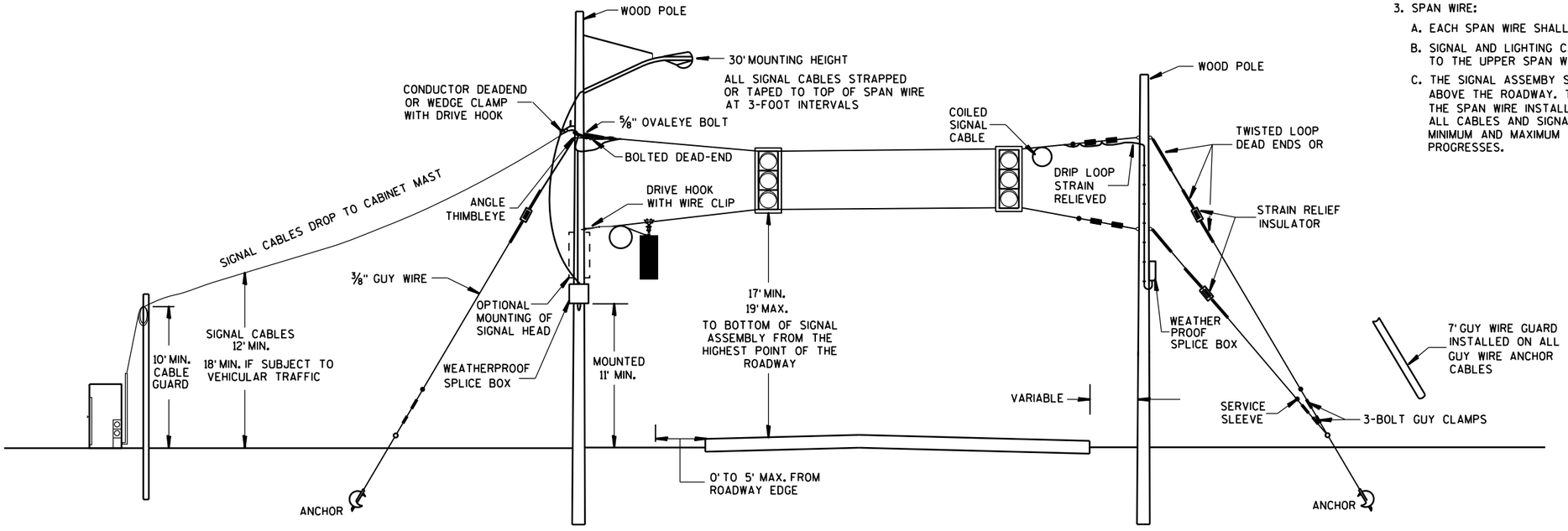
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



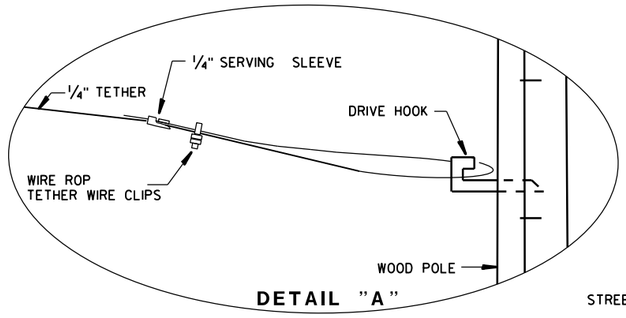
SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

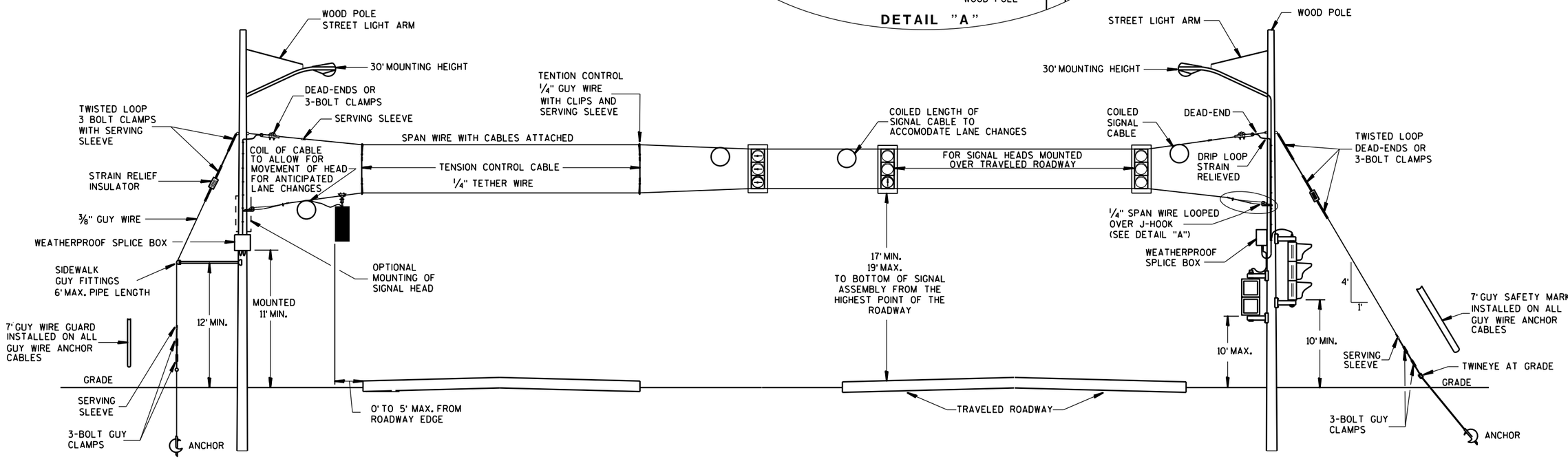
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 718
FHWA



DETAIL "A"



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
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   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

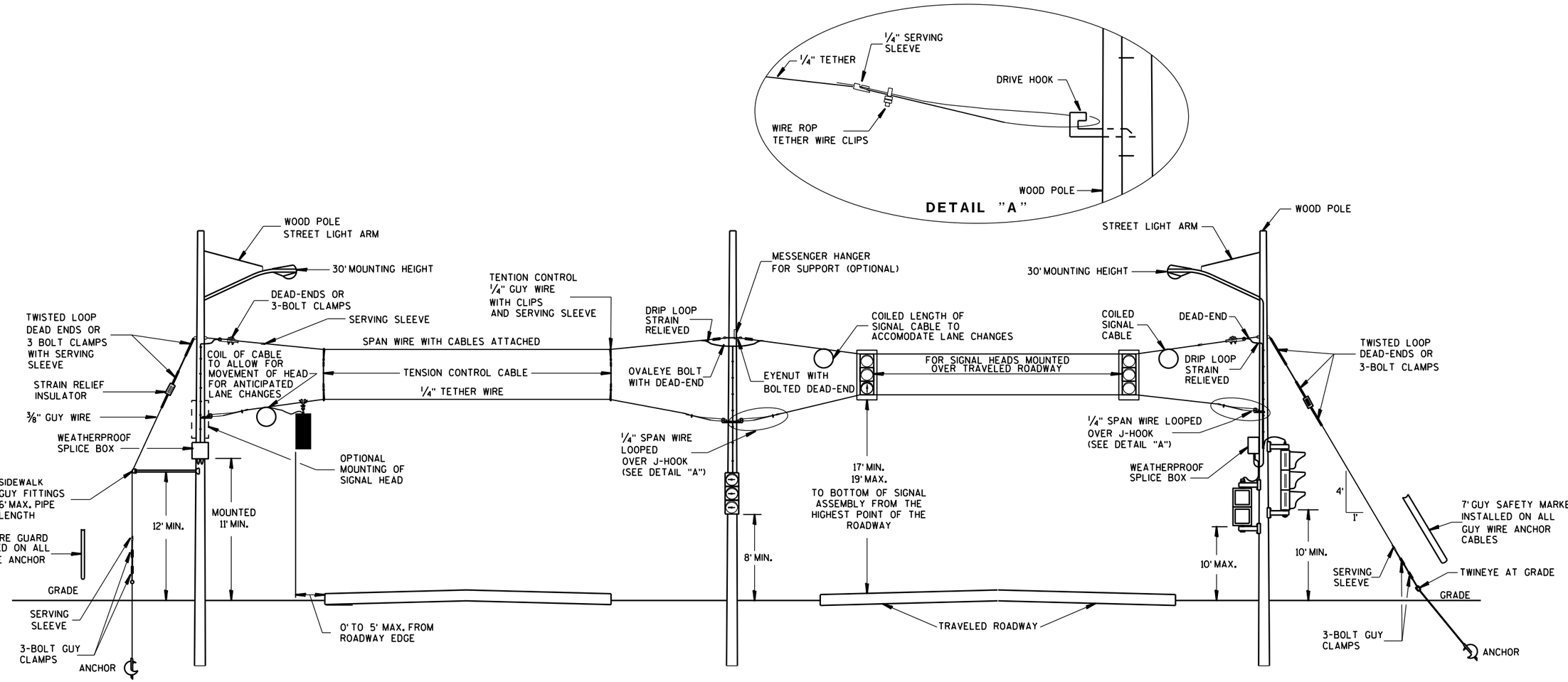
SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 719
FHWA



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
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   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

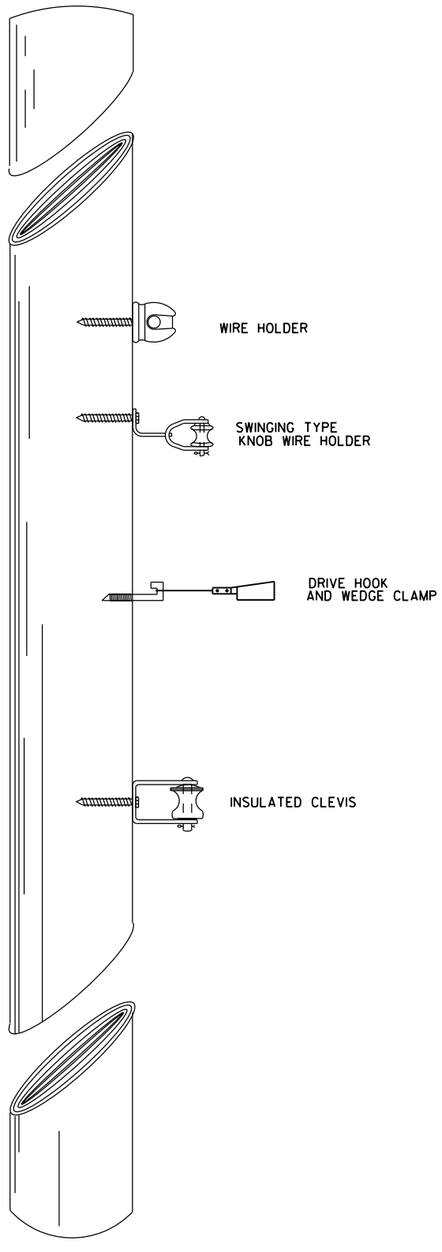
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

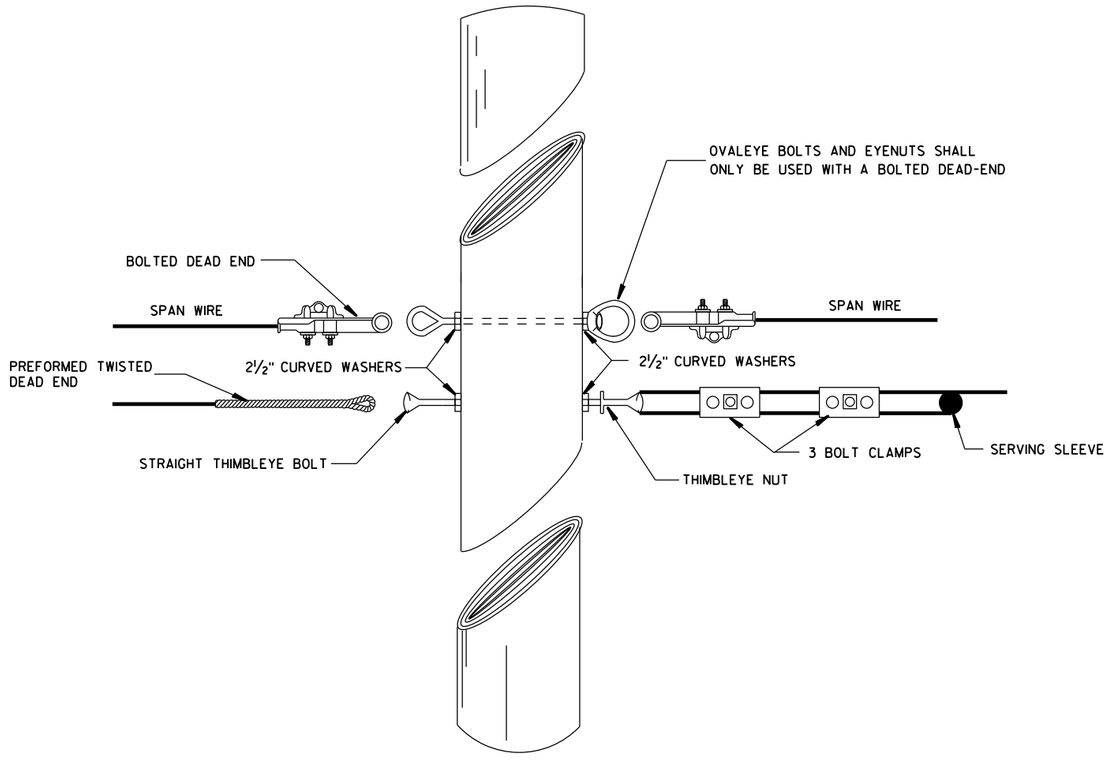
APPROVED
June. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 G 1-4c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

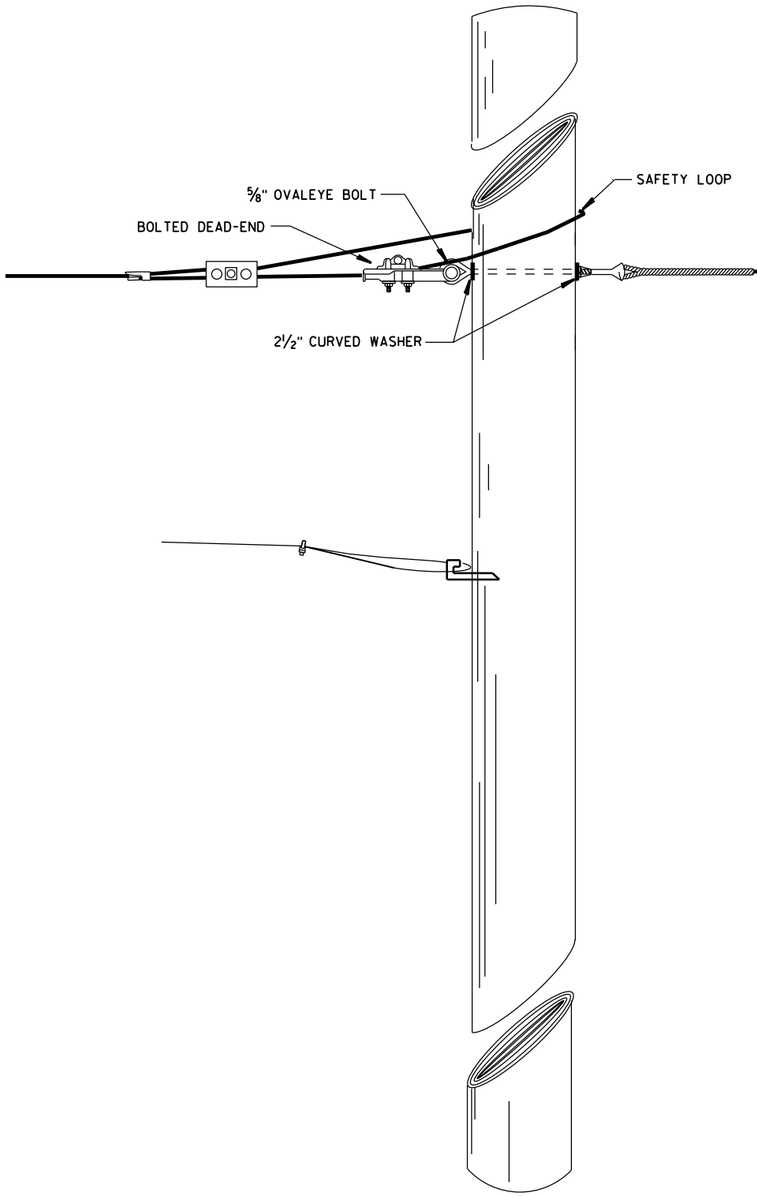
FHWA

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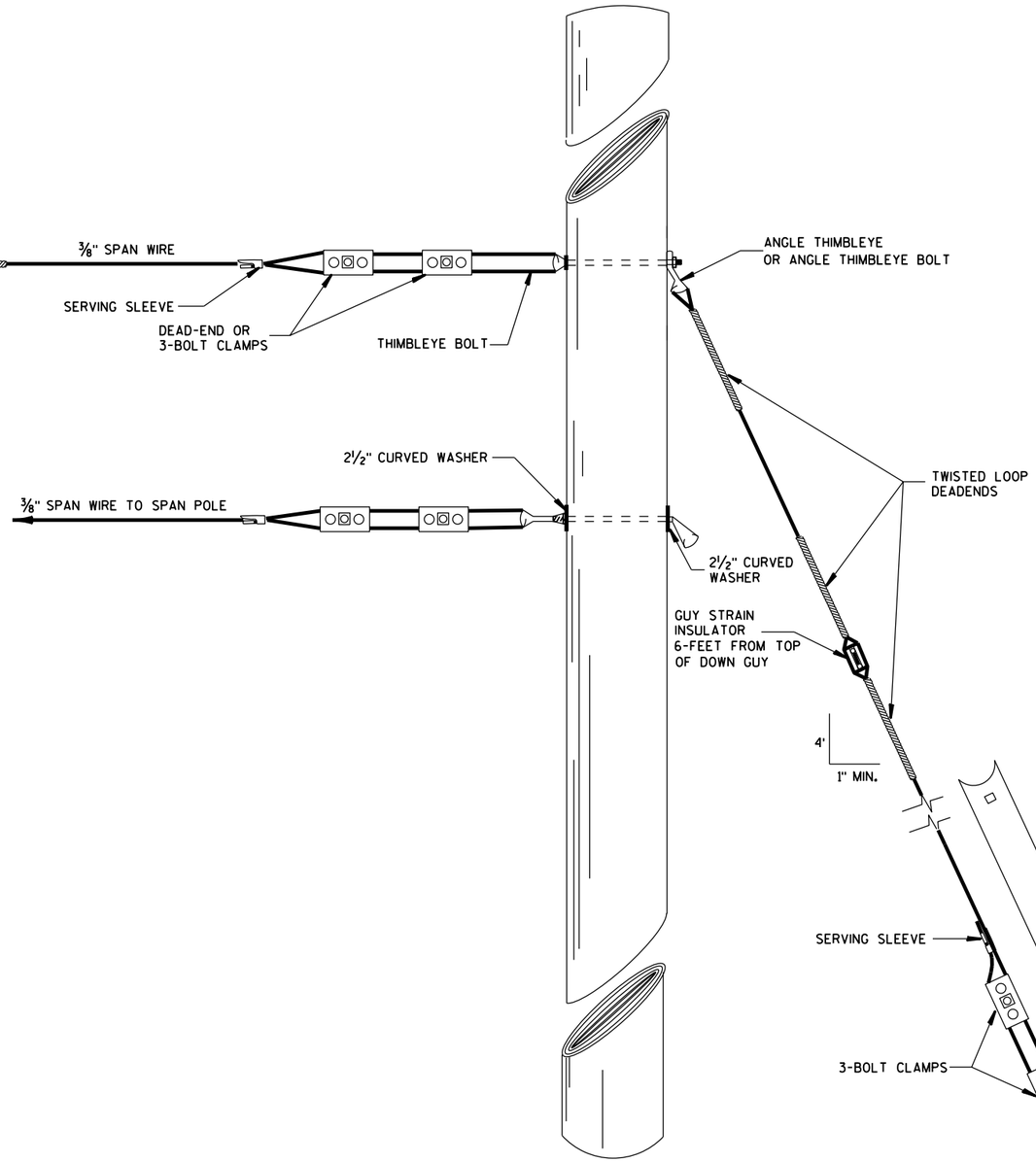
S.D.D. 9 G 1-4d

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

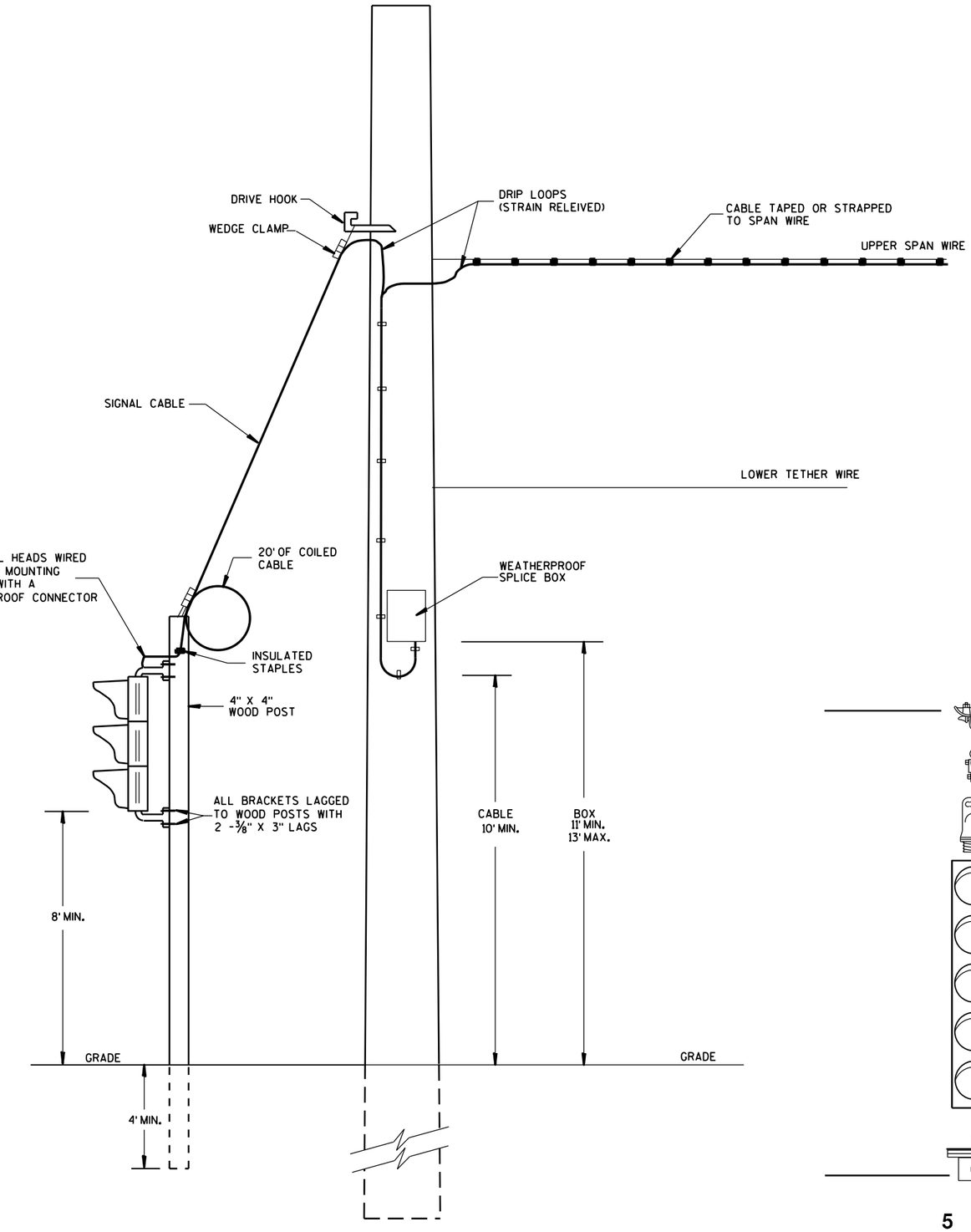


GUY POLE

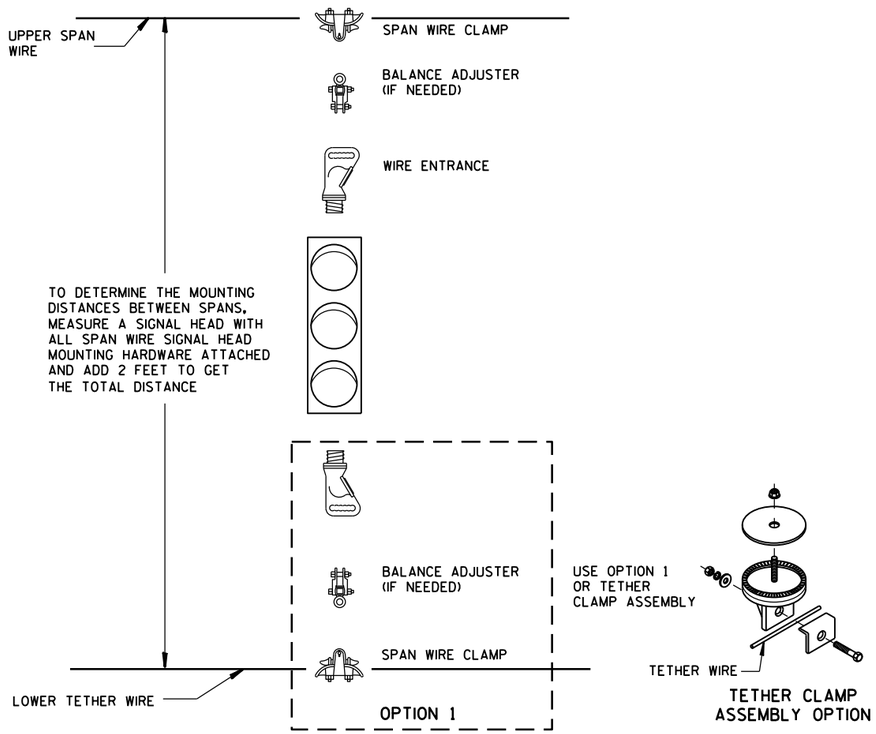
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June. 2015 DATE /S/ Ahmet Demirbilek STATE ELECTRICAL 722 FHWA

6
S.D.D. 9 G 1-4e

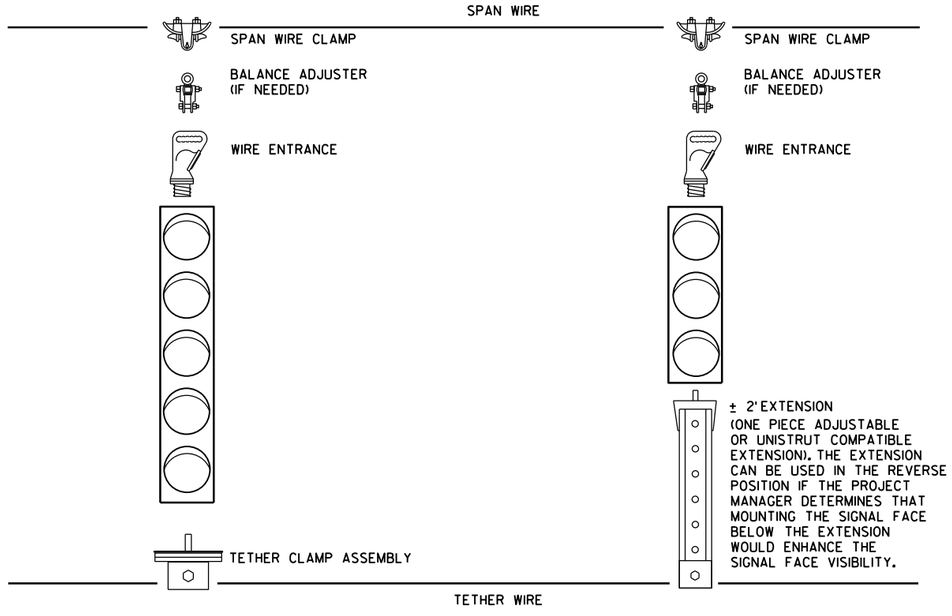


TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 723

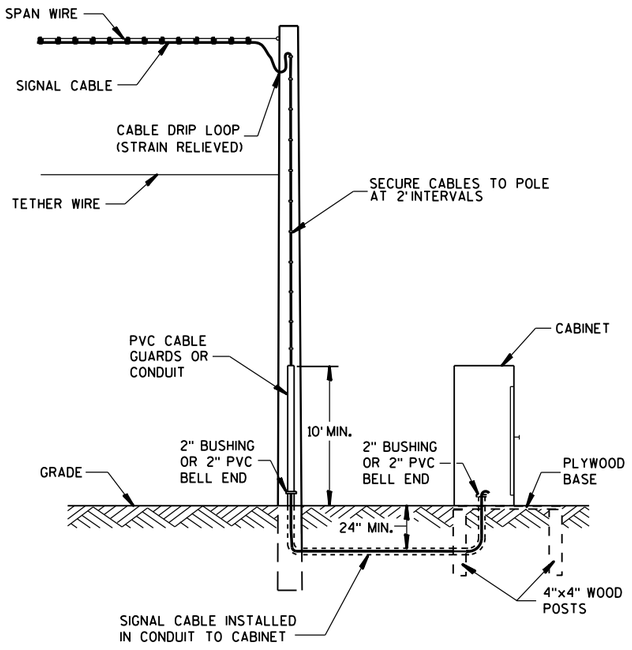
FHWA

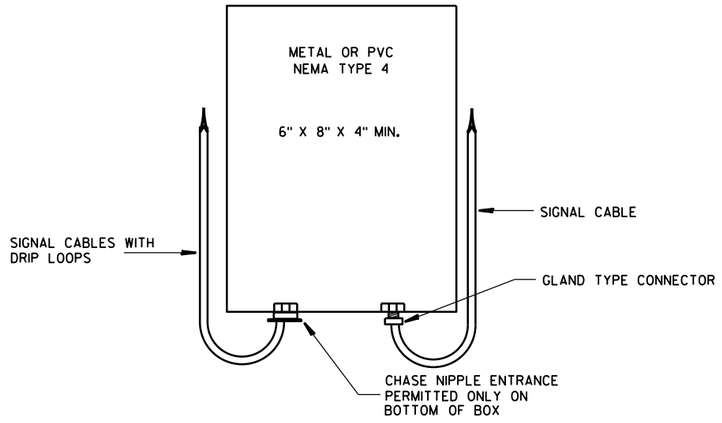
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S.D.D. 9 G 1-4f

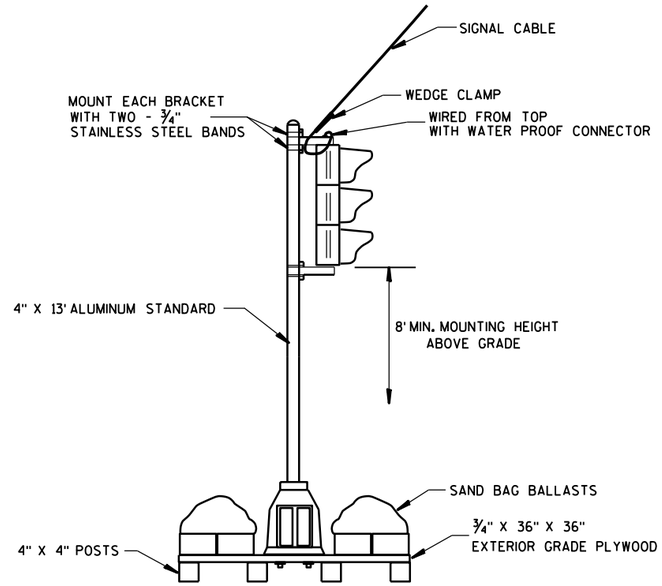
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S.D.D. 9 G 1-4f

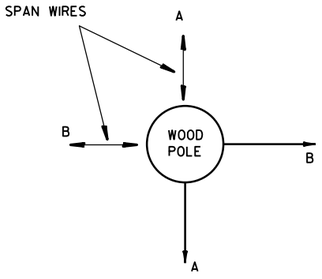




SPLICE BOX

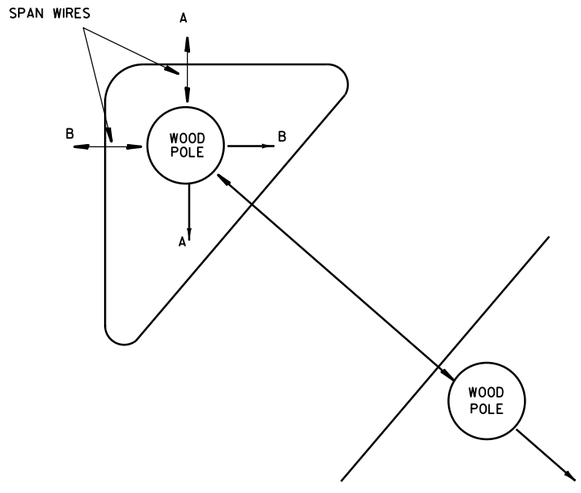


TYPICAL SKID TYPE TEMPORARY

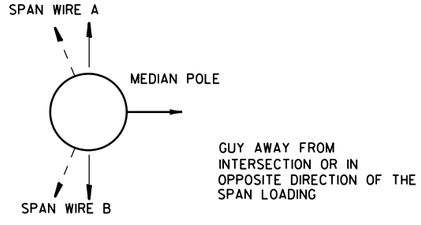


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

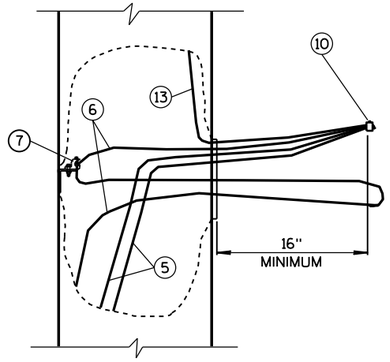
APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

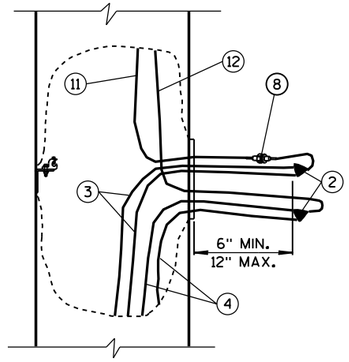
S.D.D. 9 G 1-4g

6

S.D.D. 9 G 1-4g

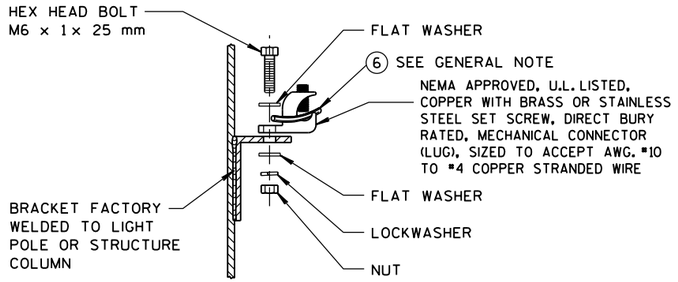


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



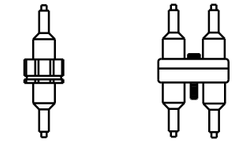
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



FUSE ASSEMBLIES

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

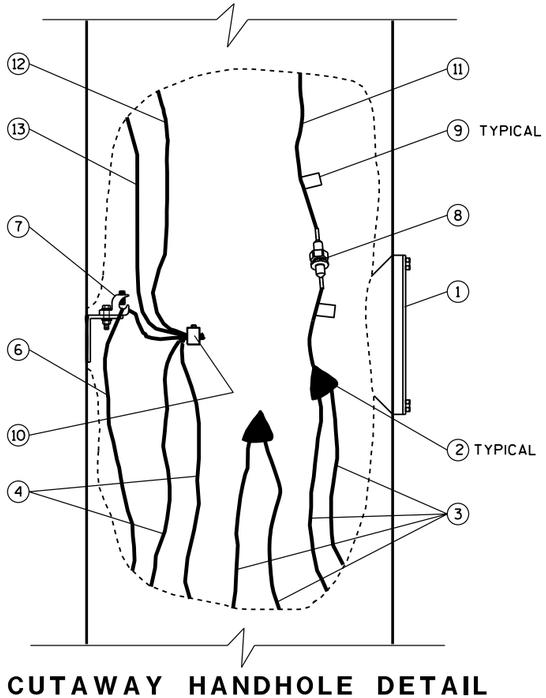
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

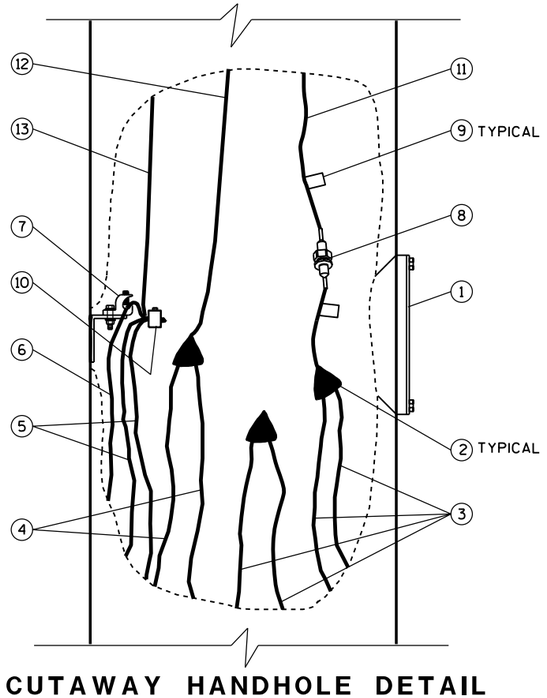
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



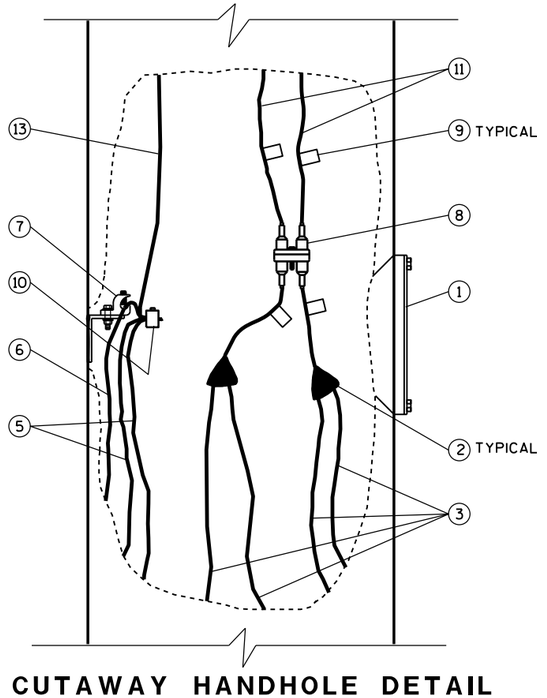
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

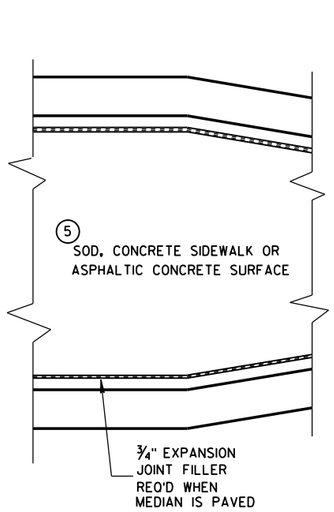
NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

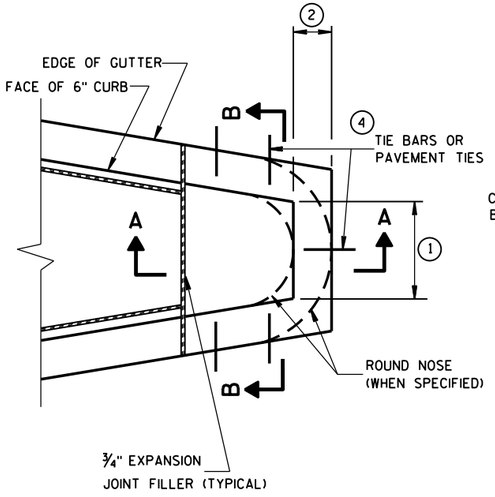
1. HANDHOLE AND COVER
2. INSULATED SPLICE
3. UNGROUNDED LINE WIRE
4. GROUNDED LINE WIRE
5. SYSTEM GROUNDING LINE WIRE
6. GROUNDING ELECTRODE CONDUCTOR
7. HANDHOLE GROUNDING LUG
8. FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9. CIRCUIT TAG (SEE GENERAL NOTE)
10. REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11. UNGROUNDED POLE WIRE
12. GROUNDED POLE WIRE
13. EQUIPMENT GROUNDING POLE WIRE

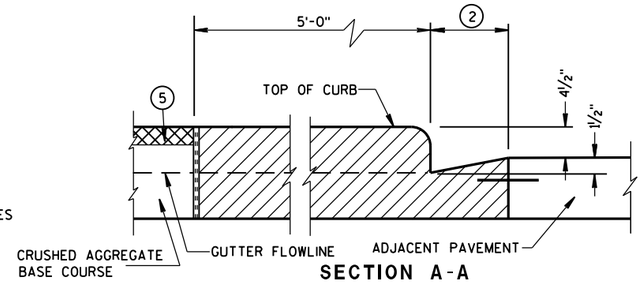
ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

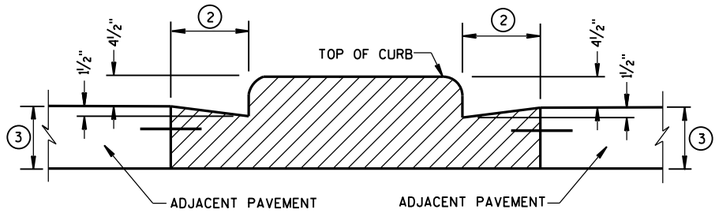
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 725
FHWA







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

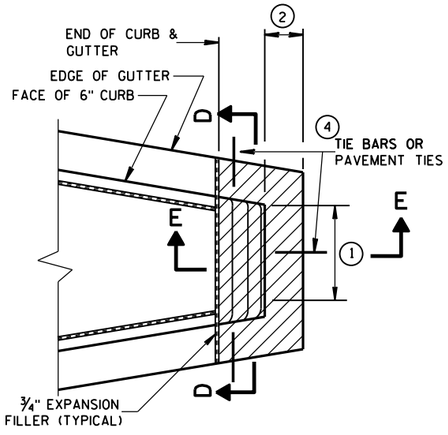
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

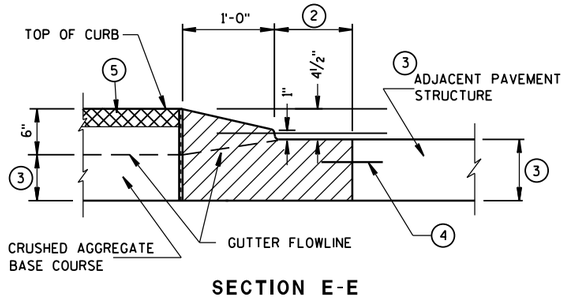
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

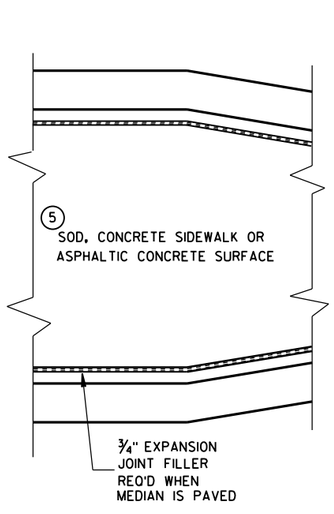
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

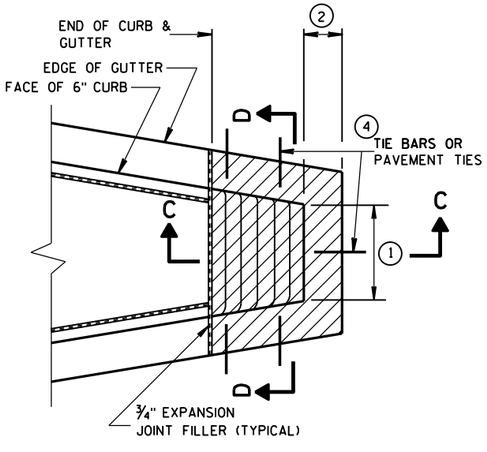


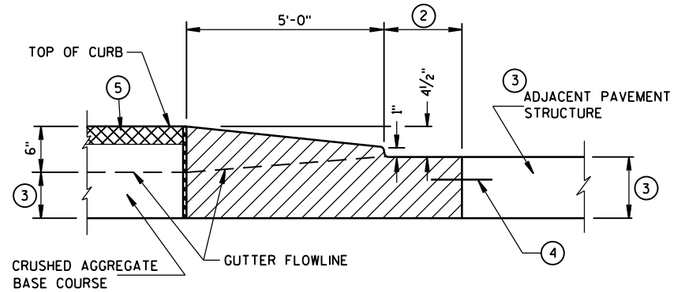


SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

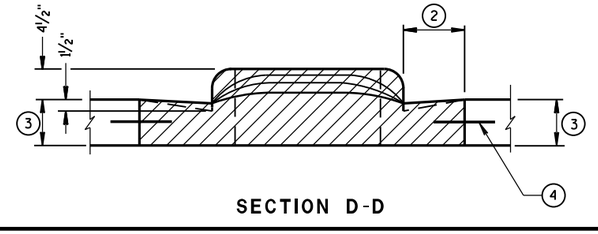






SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

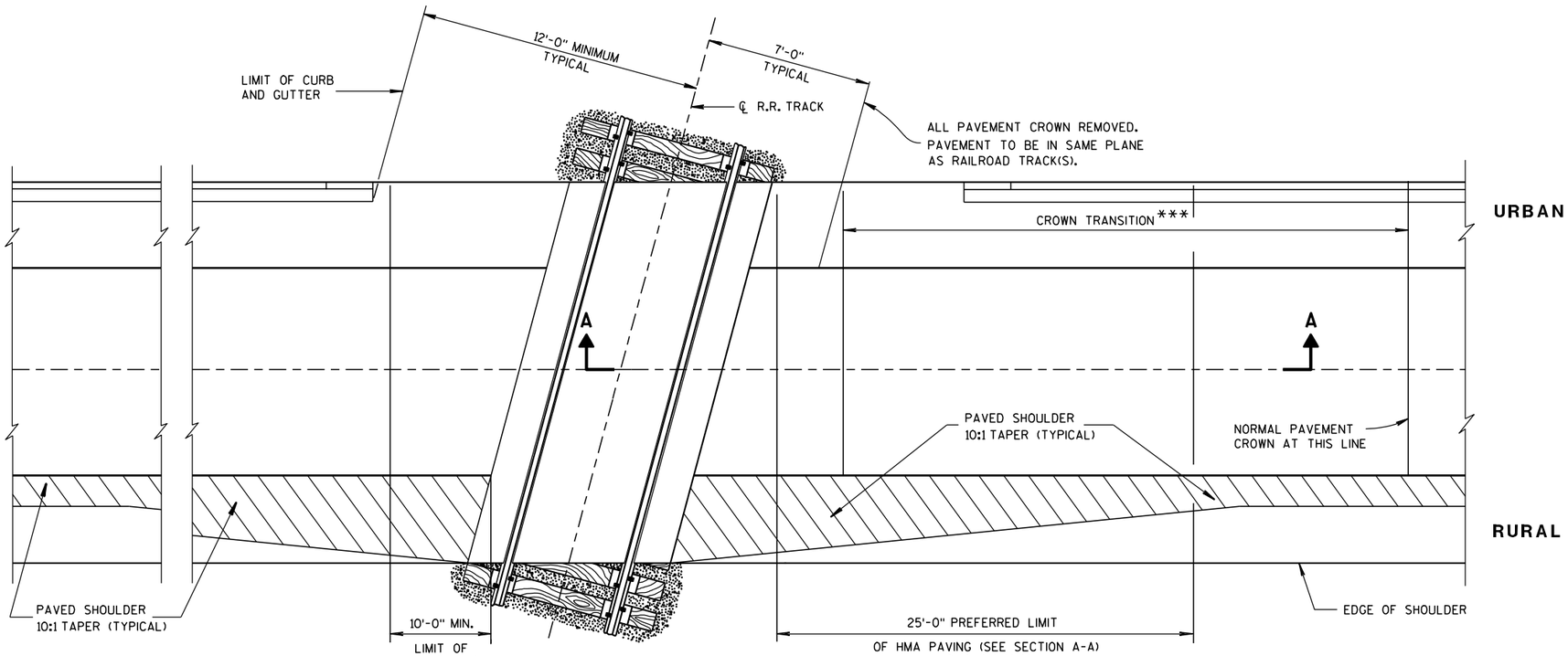
FHWA

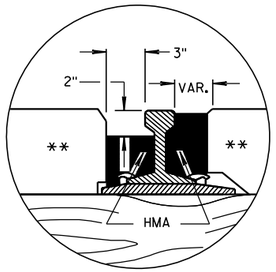
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S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

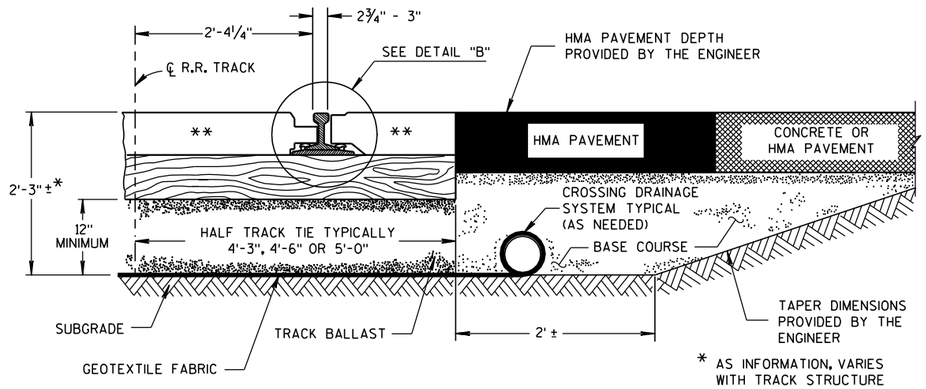
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

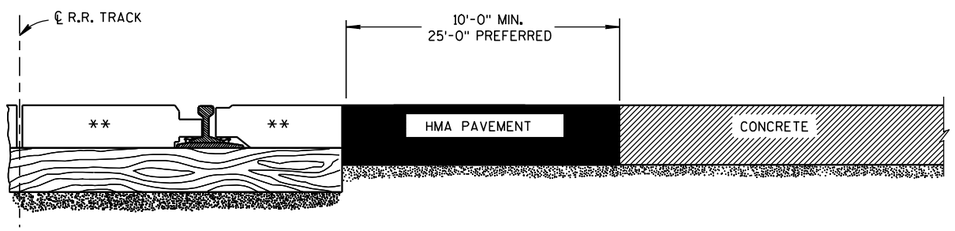
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

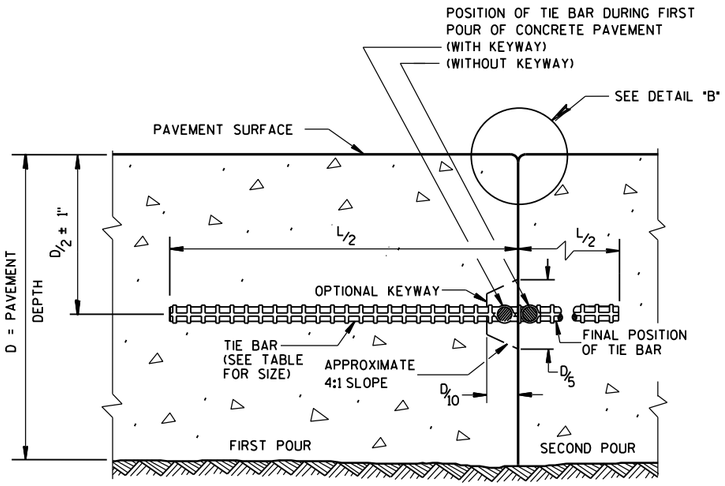
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI 727 CTION
FHWA

6

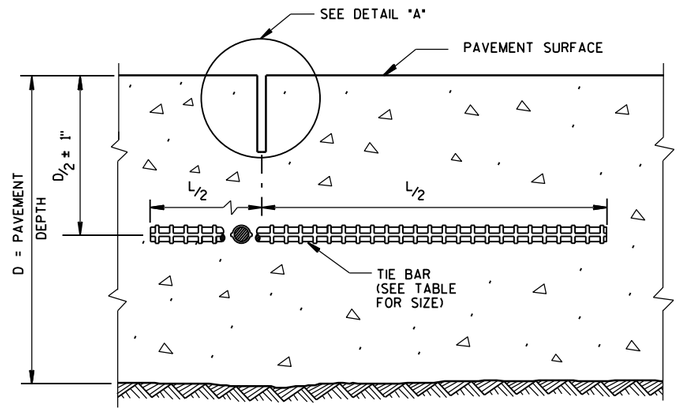
S.D.D. 13 B 1-10

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S.D.D. 13 B 1-10



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

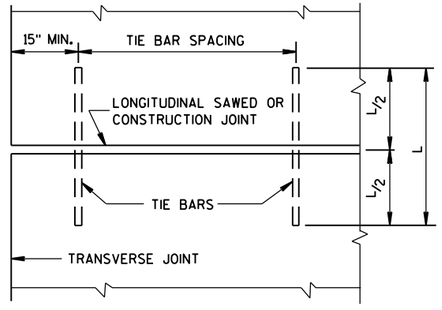
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 1-18

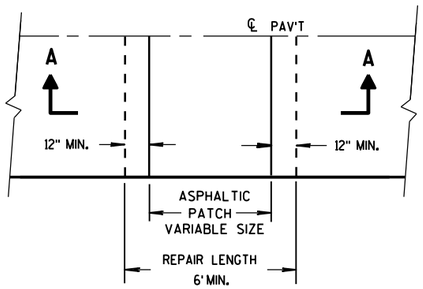
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

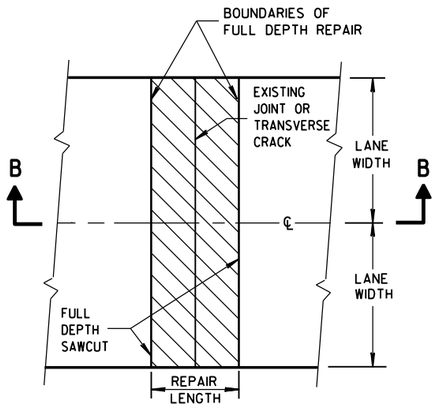
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

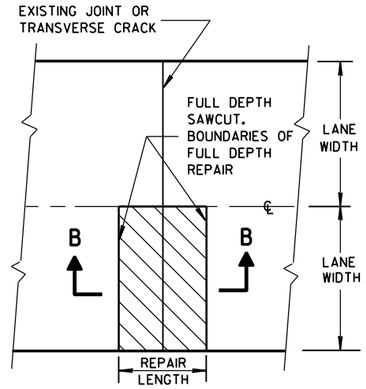
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

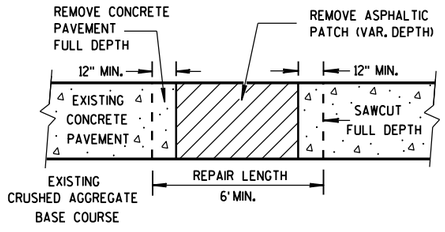


PLAN VIEW
(DOUBLE LANE REPAIR)



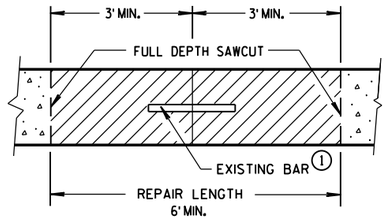
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

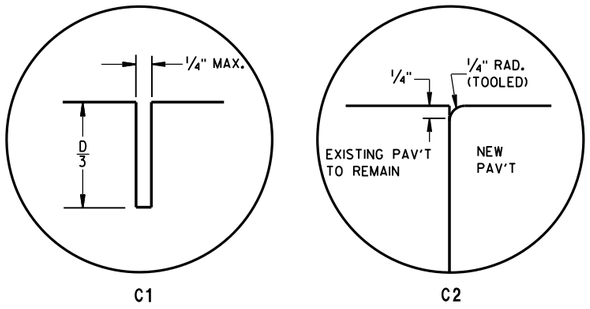
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 13 C 9-13a



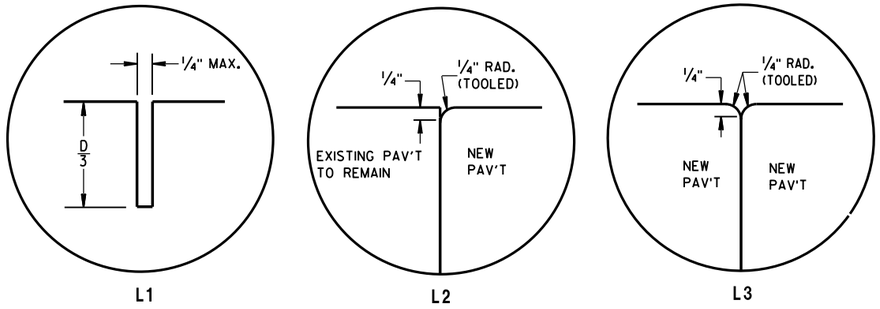
TRANSVERSE JOINTS

TIE BAR TABLE

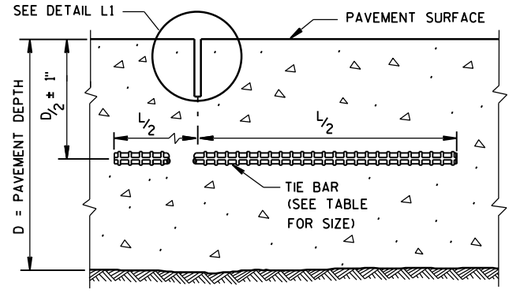
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

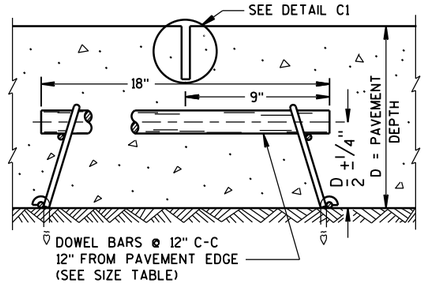
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

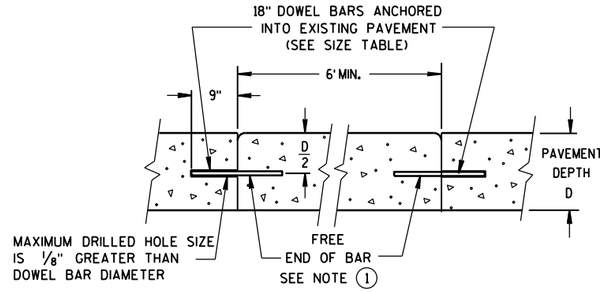
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

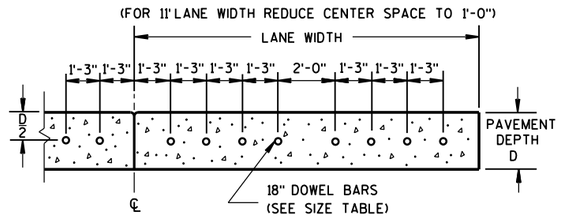


SECTION F-F

CONTRACTION JOINT



SECTION D-D

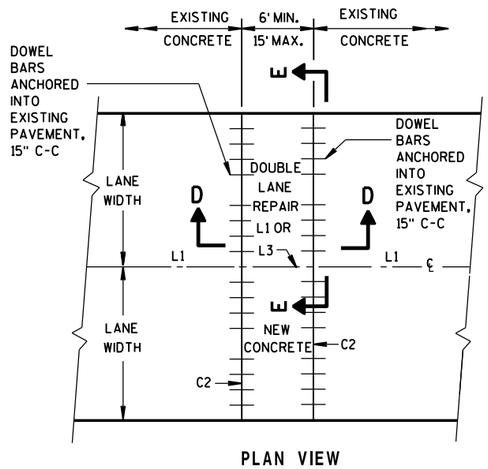


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

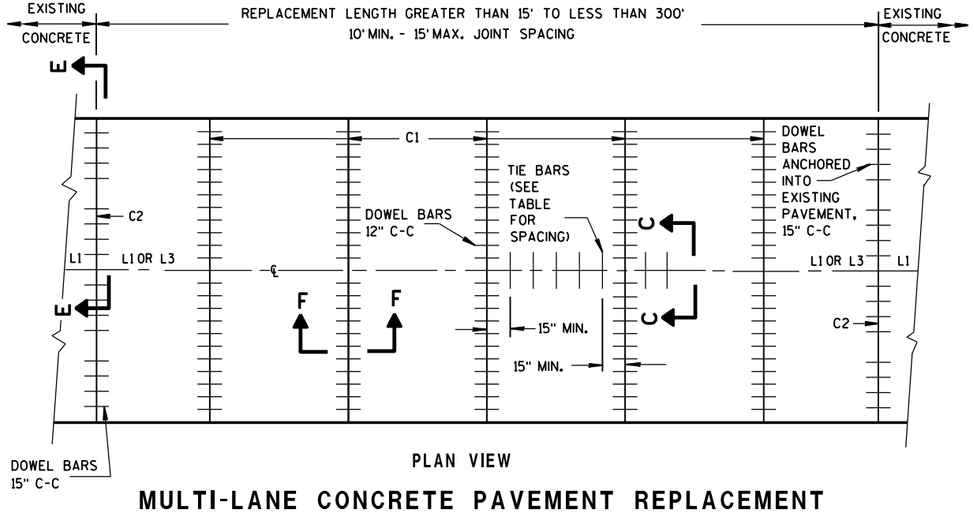
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6",6 ½"	NONE	12'
7",7 ½"	1"	14'
8",8 ½"	1 ¼"	15'
9",9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

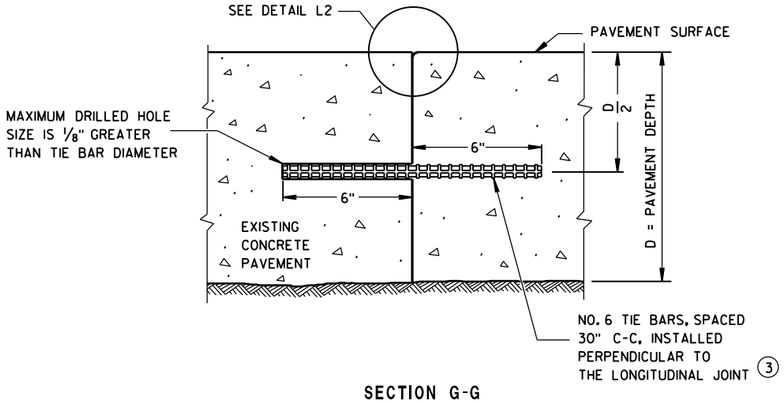
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 730

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S.D.D. 13 C 9-13b

6

S.D.D. 13 C 9-13b



SECTION G-G

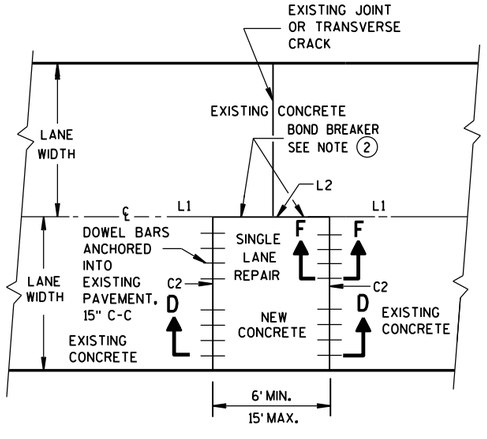
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

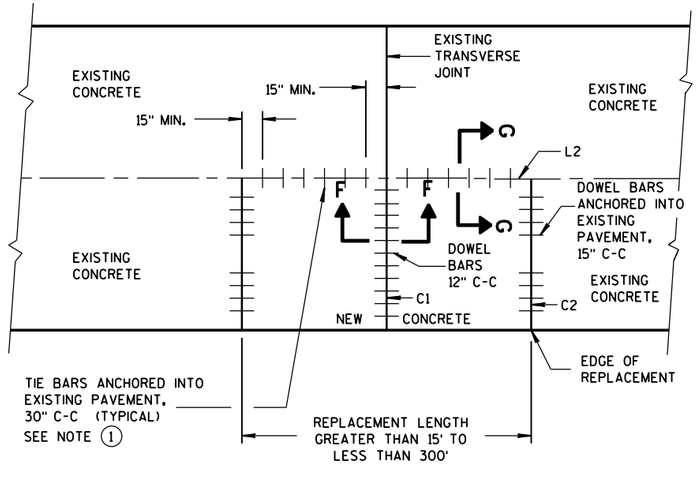
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

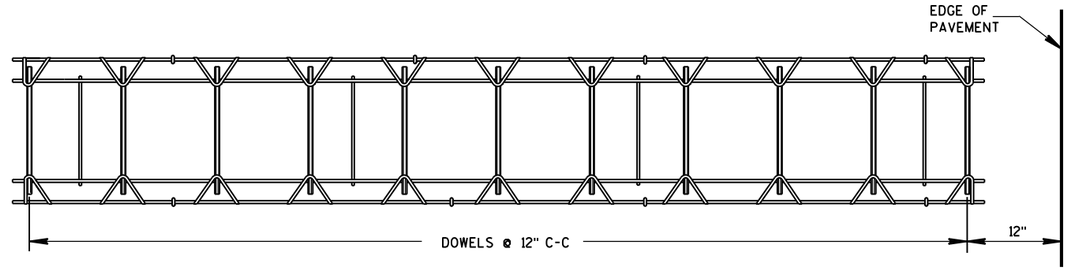
CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 9-13c

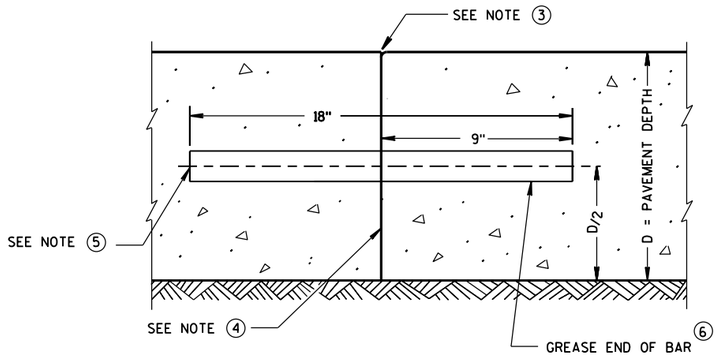


PLAN VIEW

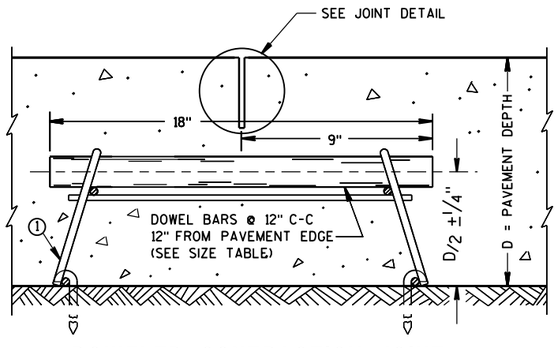


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



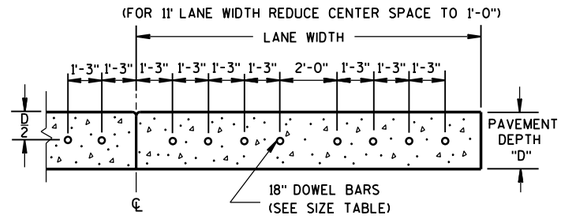
TRANSVERSE CONSTRUCTION JOINT



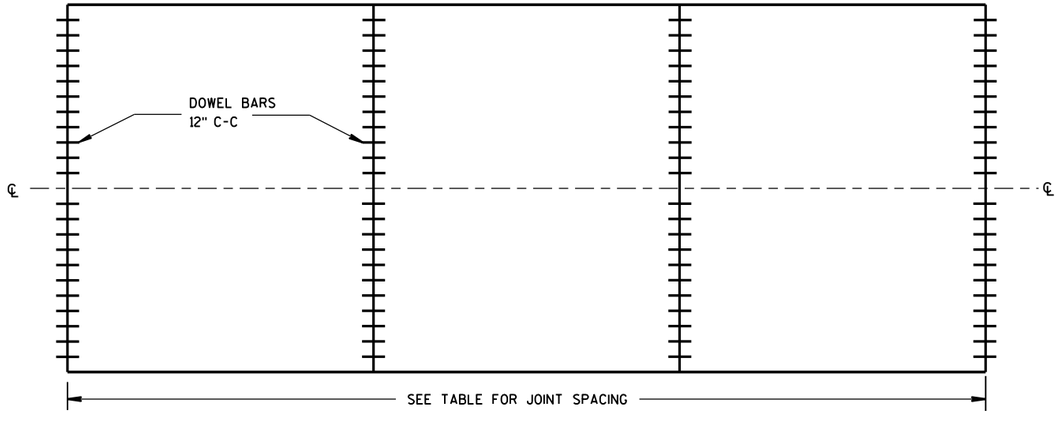
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

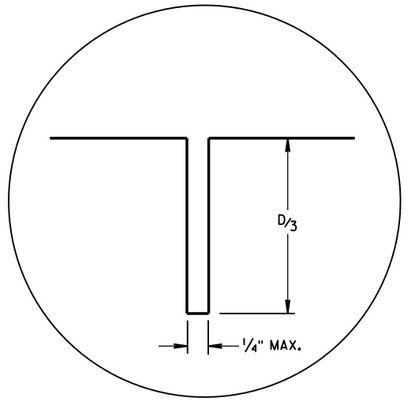
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

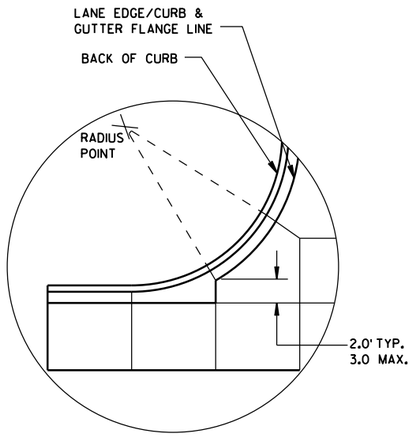
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

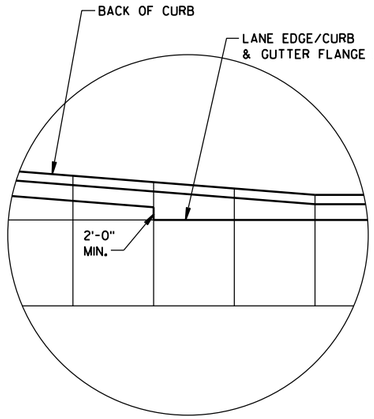
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

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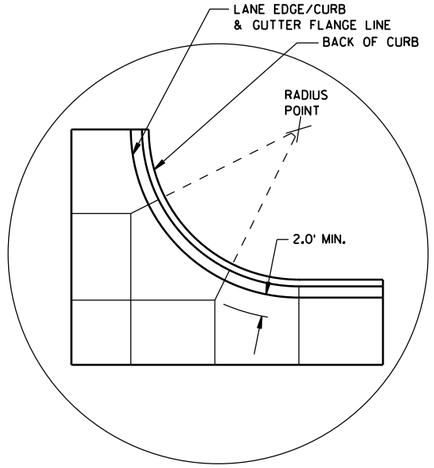
S.D.D. 13 C 13-8



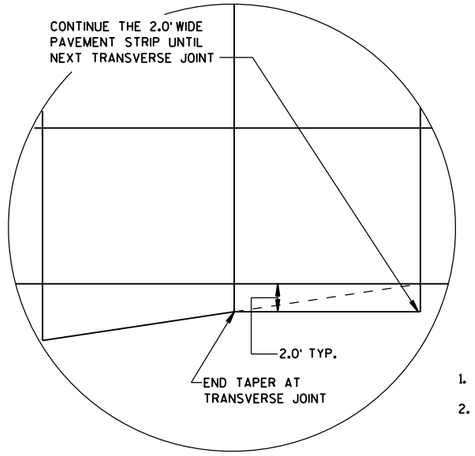
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

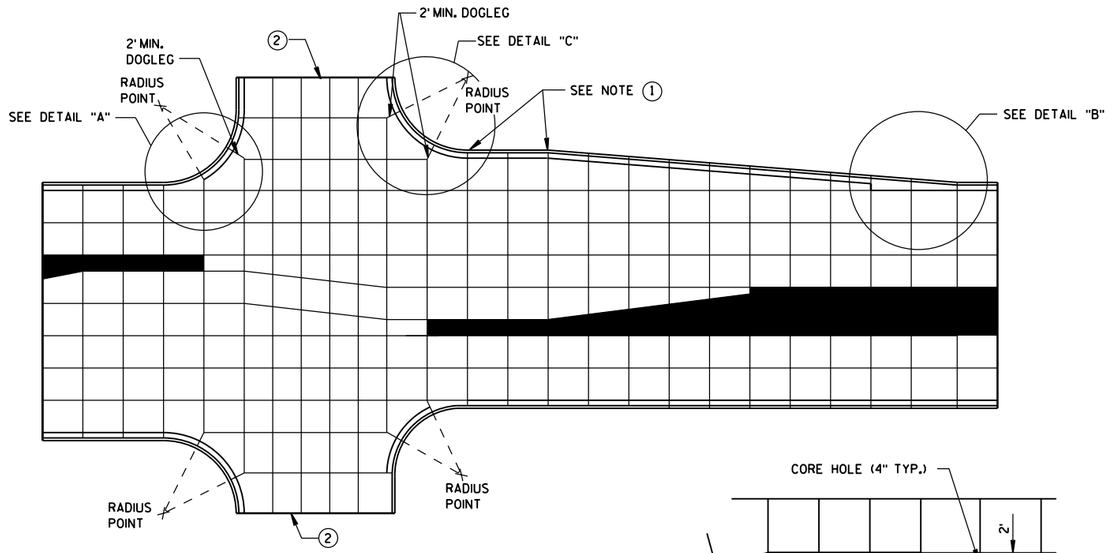
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

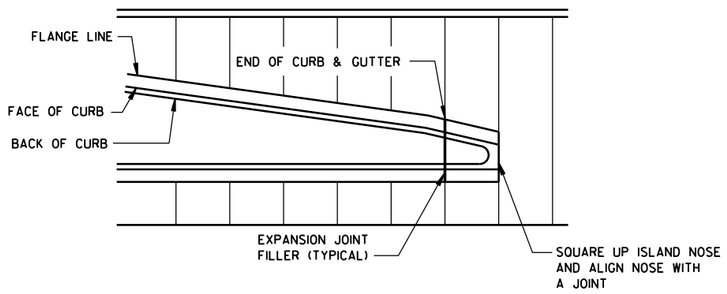
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



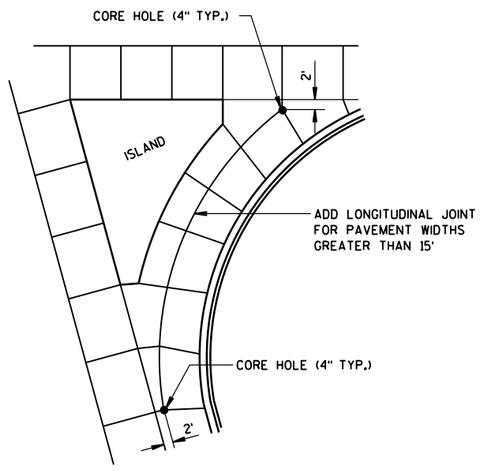
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

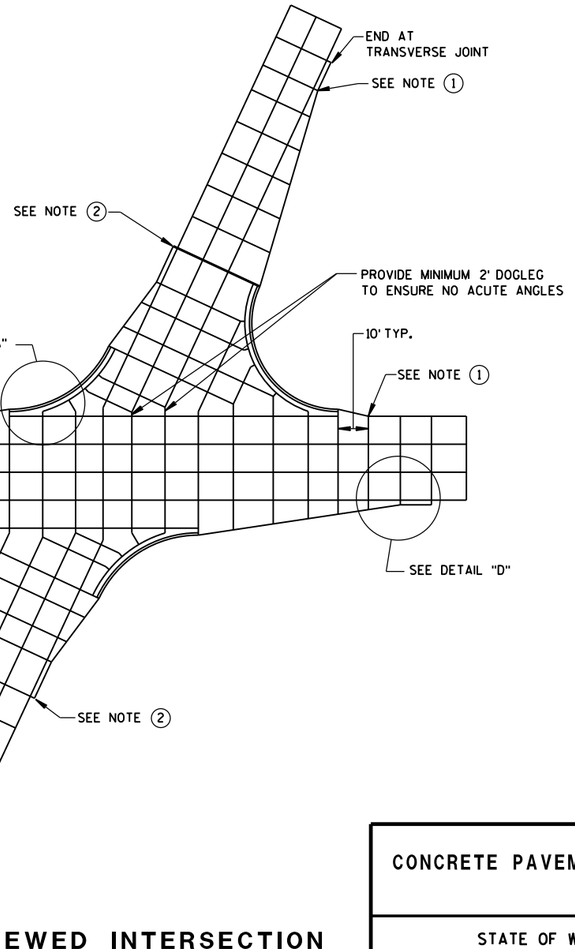
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

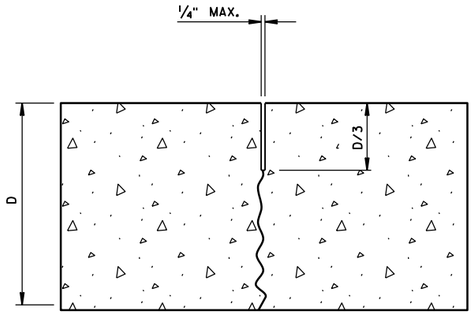
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 733

6

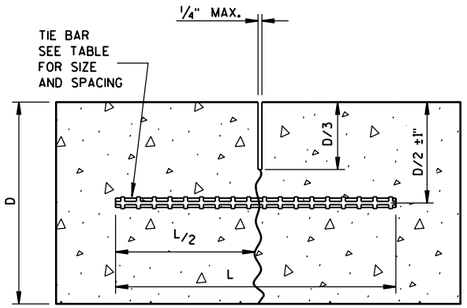
S.D.D. 13 C 18-3a

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S.D.D. 13 C 18-3a



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

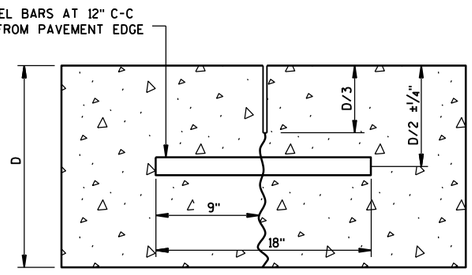
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

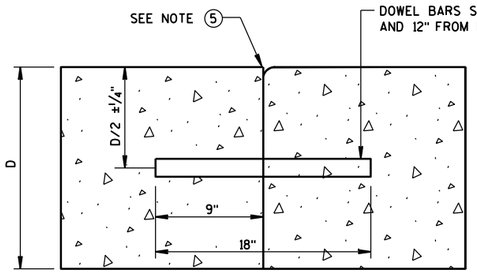
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



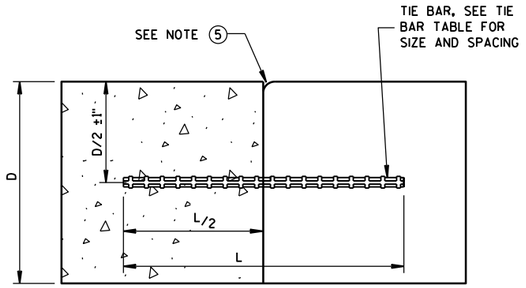
DOWELED-TRANSVERSE

CONTRACTION JOINTS

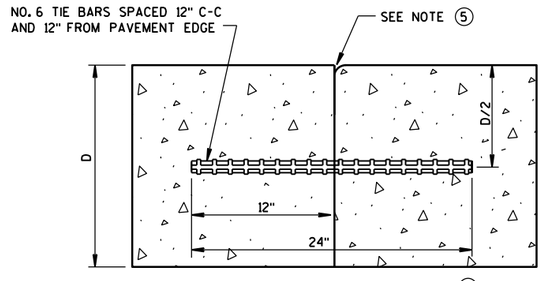
SEE NOTE (2)



DOWELED TRANSVERSE (3)

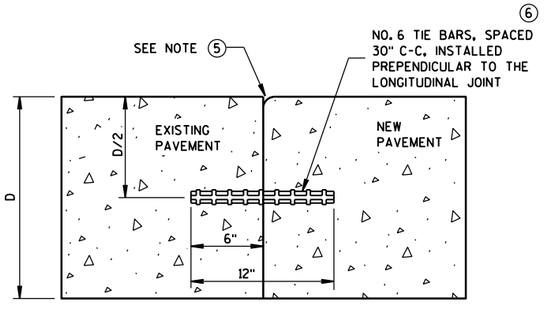


TIED LONGITUDINAL



TIED TRANSVERSE (3)

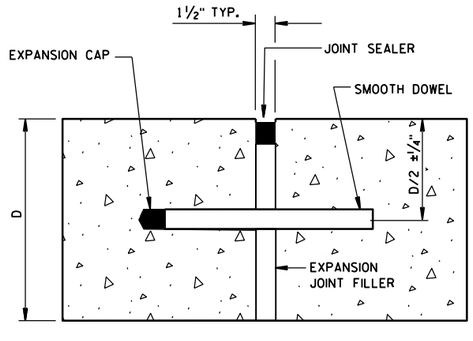
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

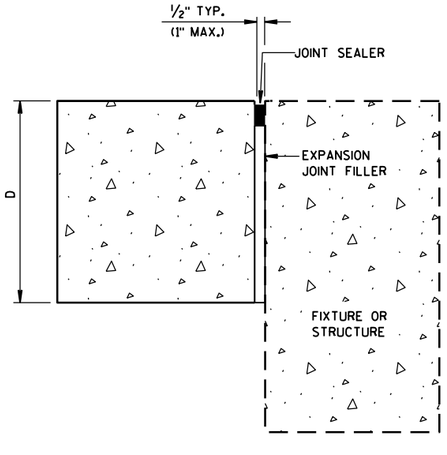
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

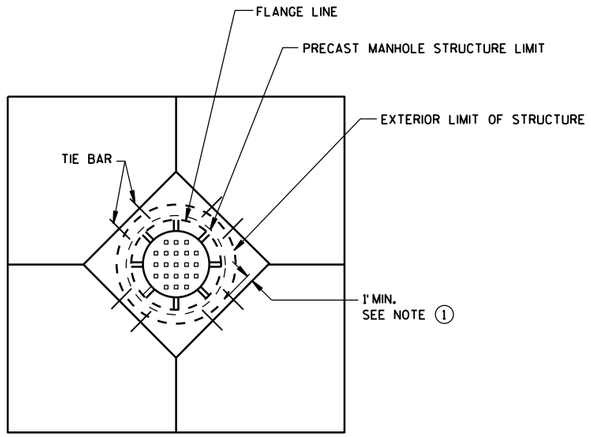
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 734

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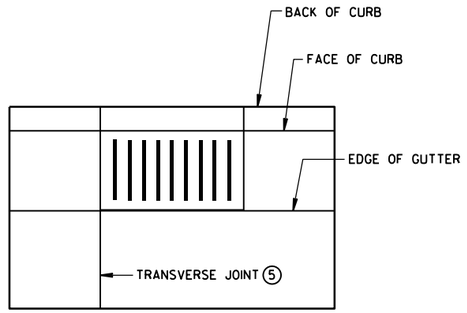
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S.D.D. 13 C 18-3c

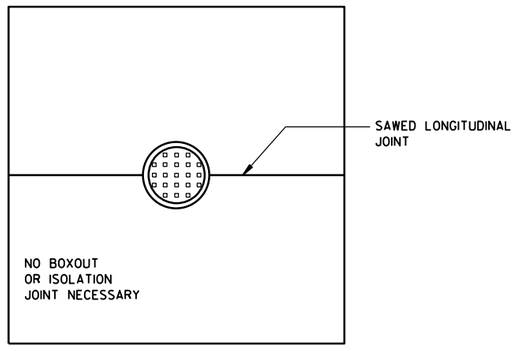
S.D.D. 13 C 18-3c



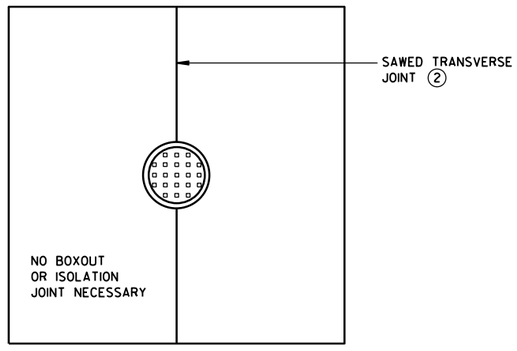
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



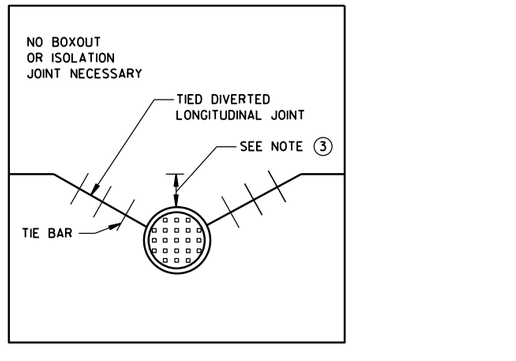
INLET WITH TRANSVERSE JOINT



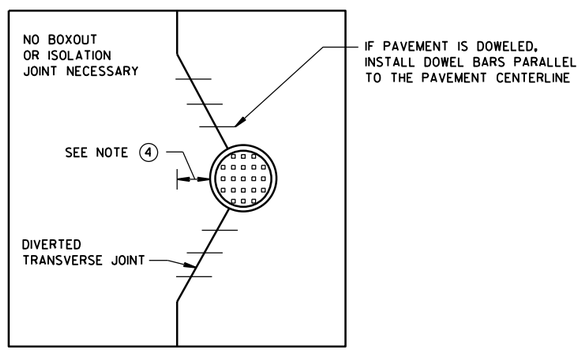
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

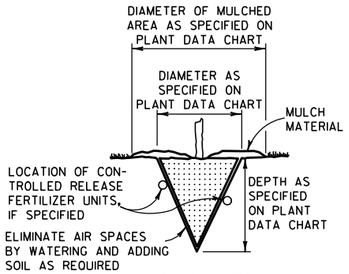
(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

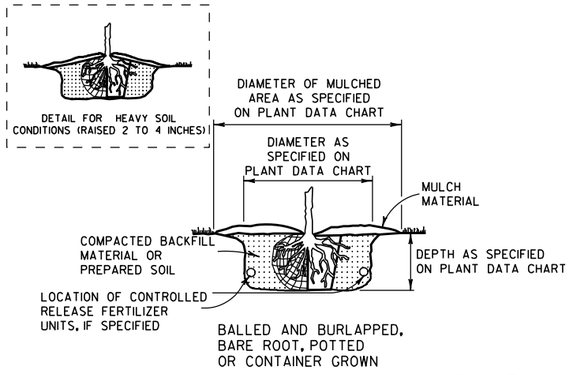
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER 735
FHWA

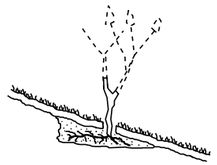
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S.D.D. 13 C 18-3d



MACHINE MOVED

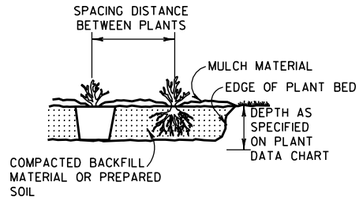


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



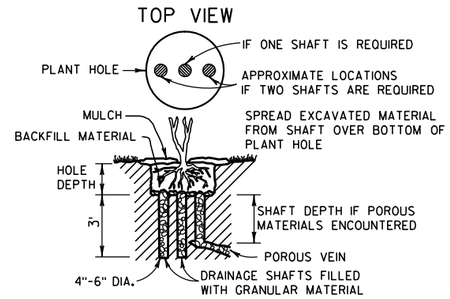
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



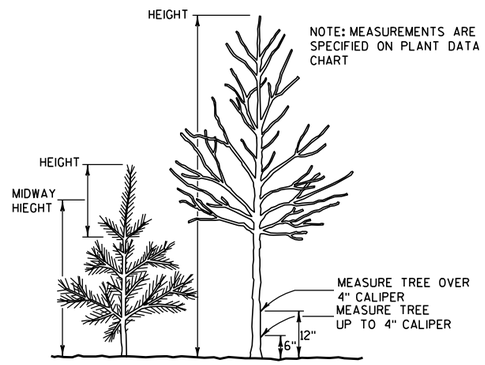
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

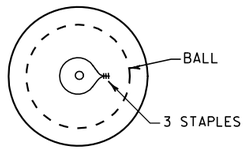


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

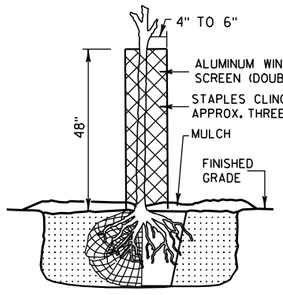
DRAINING



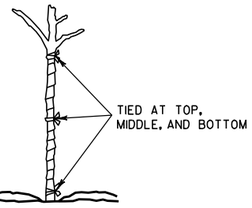
MEASURING



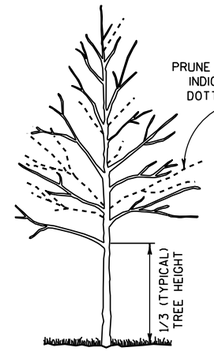
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

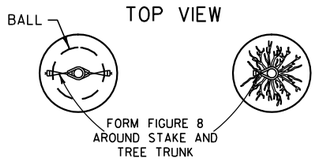


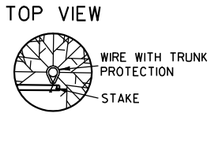
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

SUMAC

TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

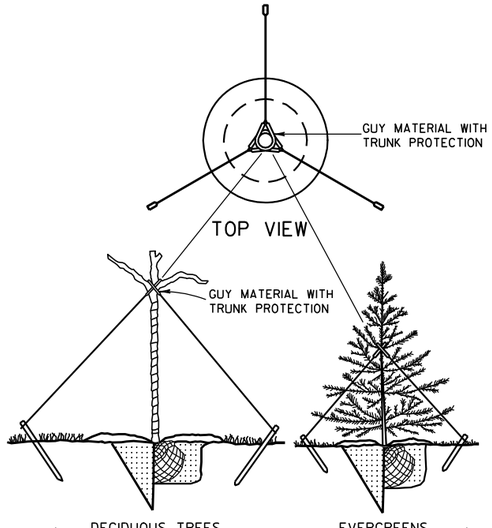
PRUNING





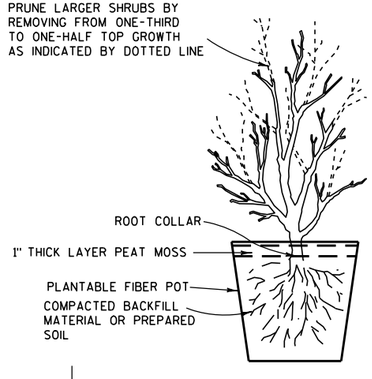
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

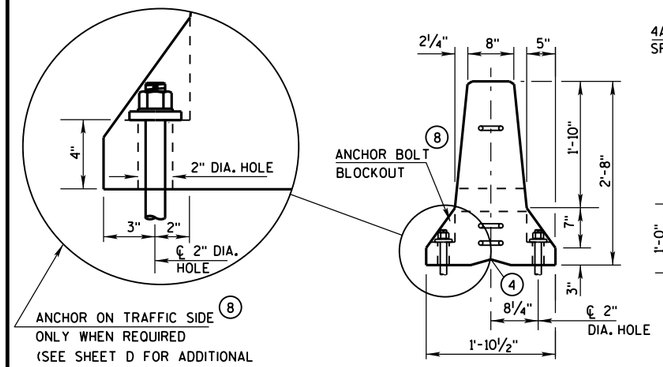
BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

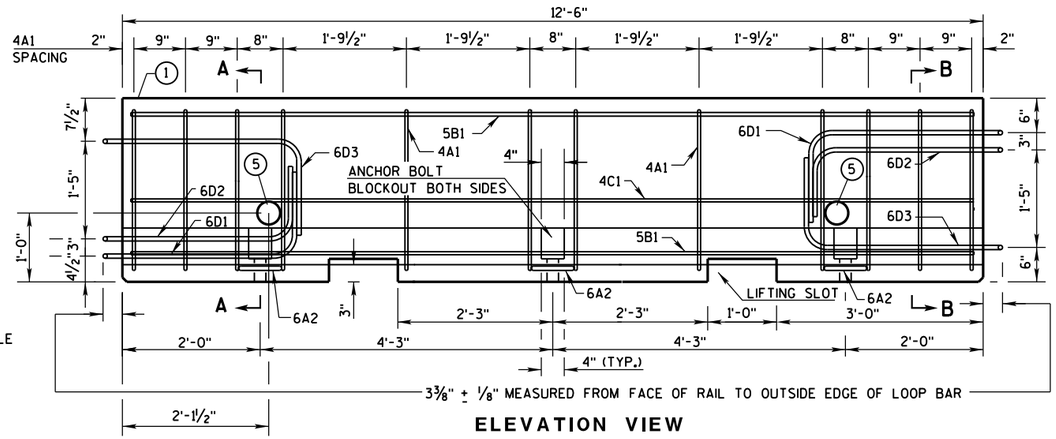
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

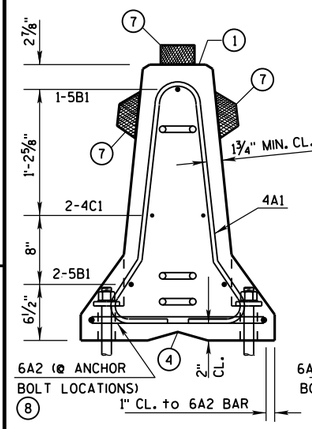
6
S.D.D. 14 A 2-1



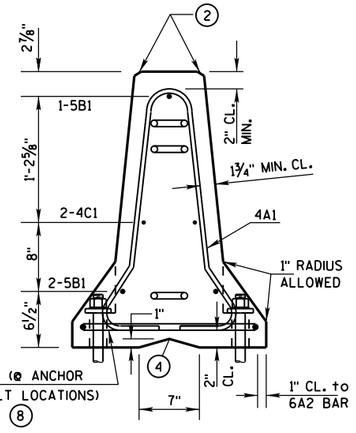
END VIEW



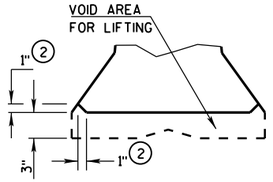
ELEVATION VIEW



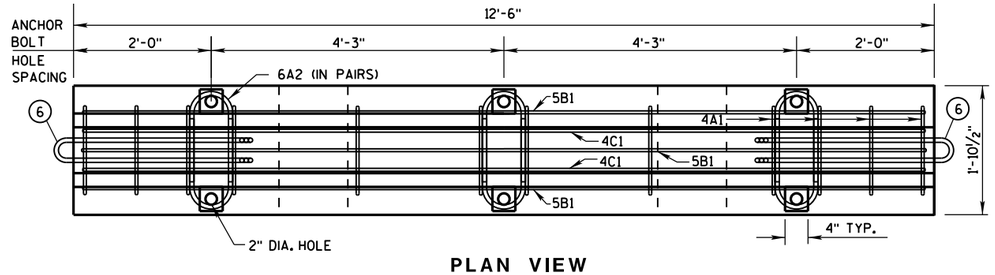
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

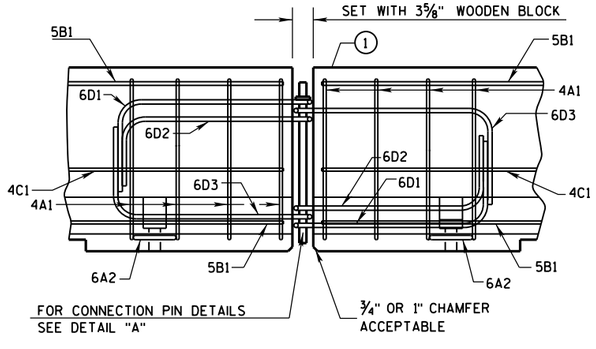


DETAIL "B"
LIFTING SLOT DETAIL

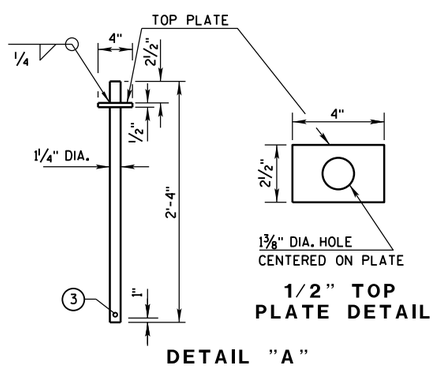


PLAN VIEW

DETAILS OF BARRIER SECTION

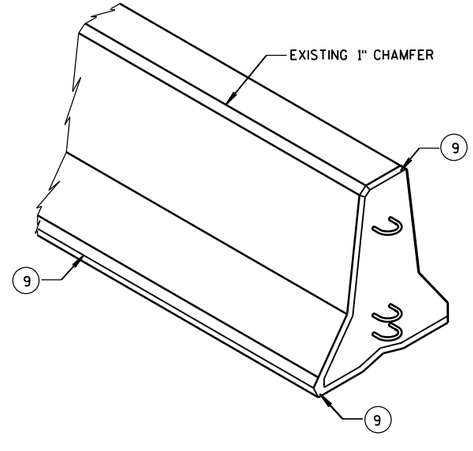


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

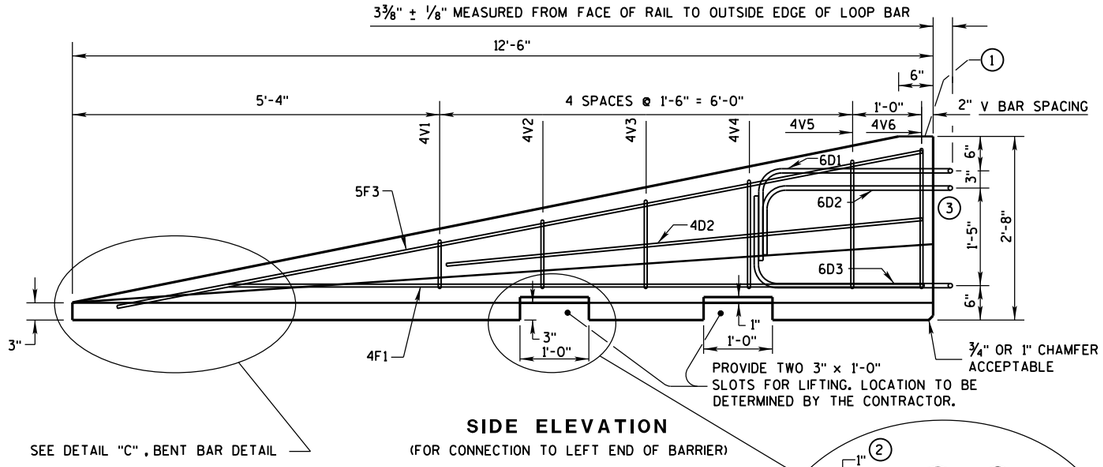
(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

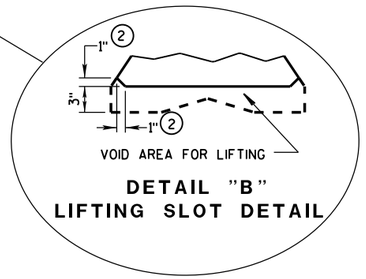
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

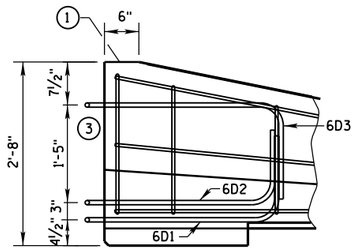
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 737



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



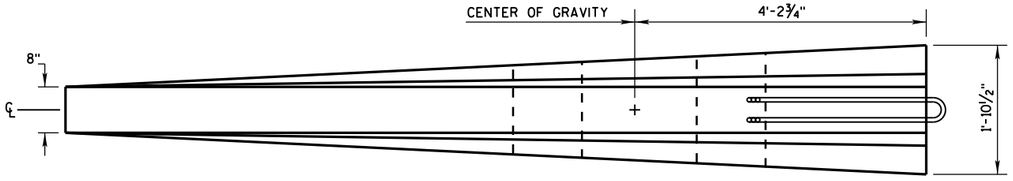
DETAIL "B"
LIFTING SLOT DETAIL



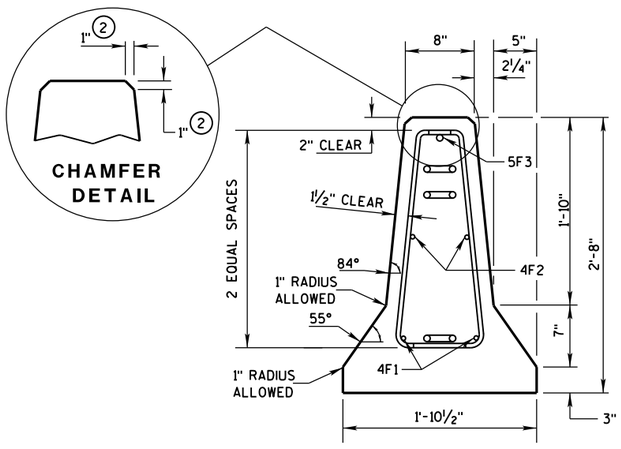
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

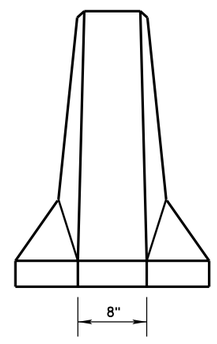
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



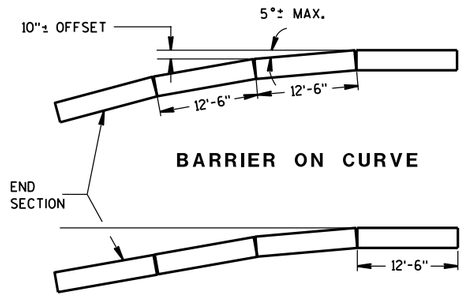
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 738

6

S.D.D. 14 B 7-14b

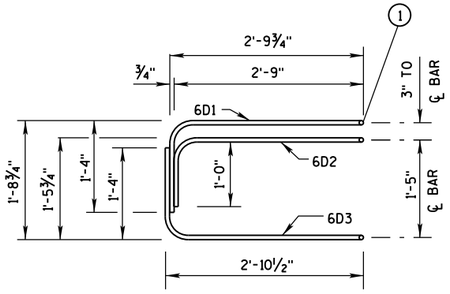
6

S.D.D. 14 B 7-14b

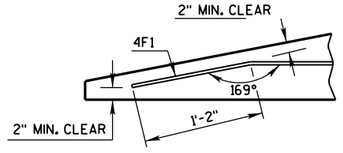
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

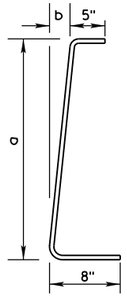
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

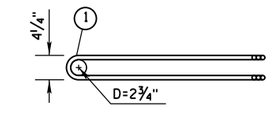
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

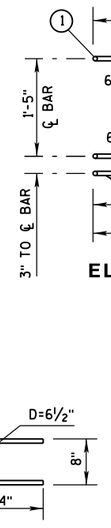
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

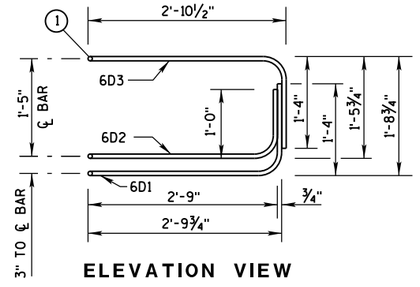
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



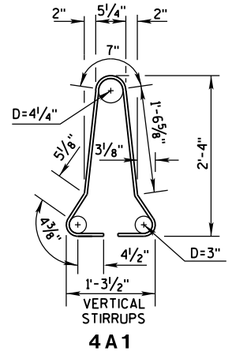
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



ELEVATION VIEW



4A1

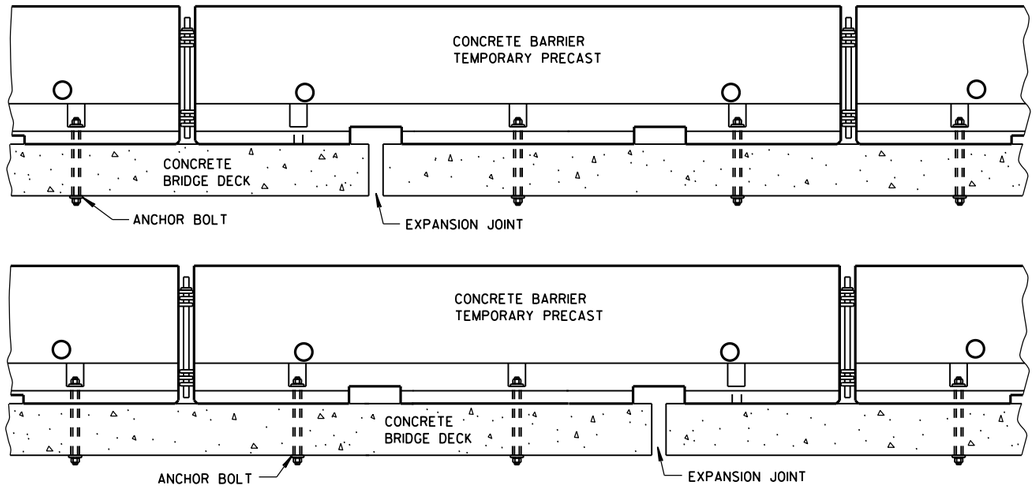
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

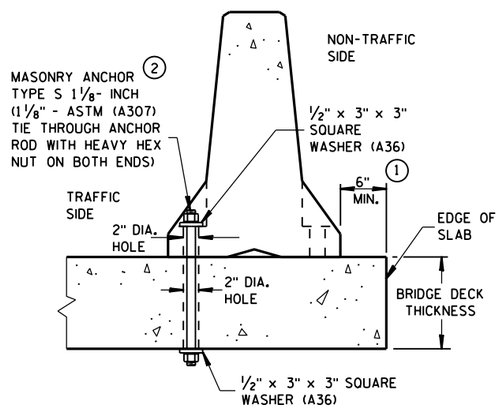
6

S.D.D. 14 B 7-14c



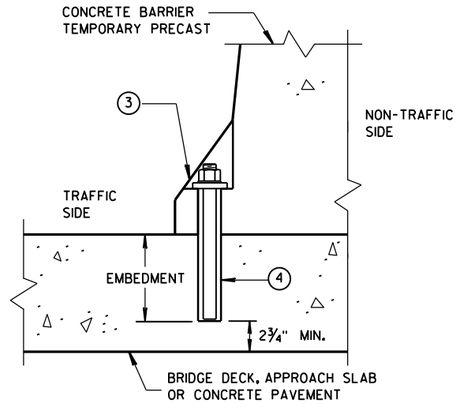
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



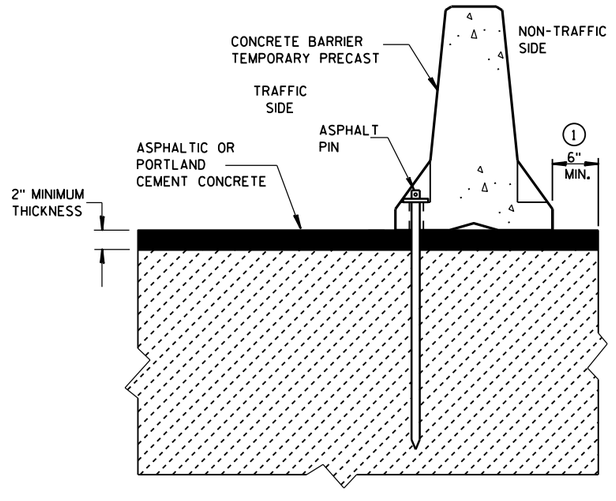
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



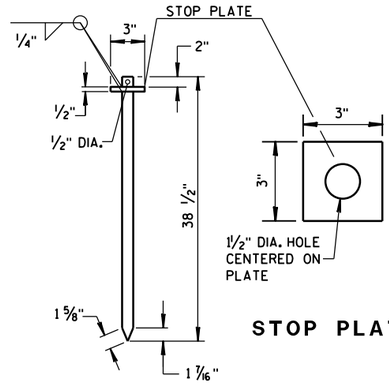
REMOVABLE ADHESIVE BONDED ANCHOR ② INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

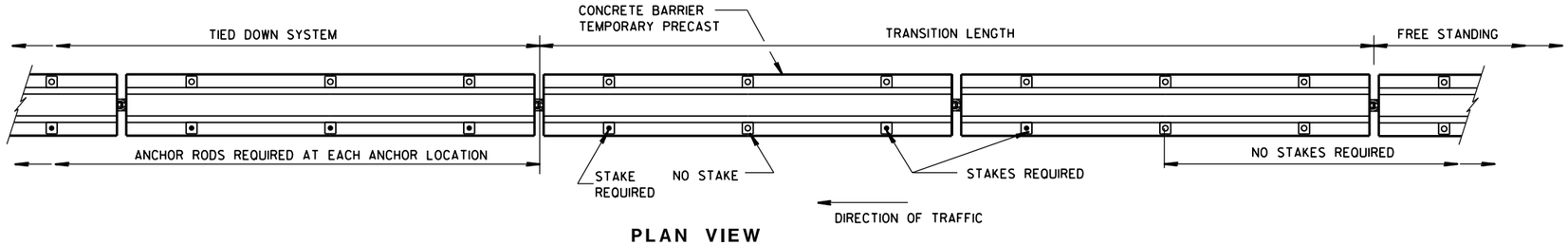
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

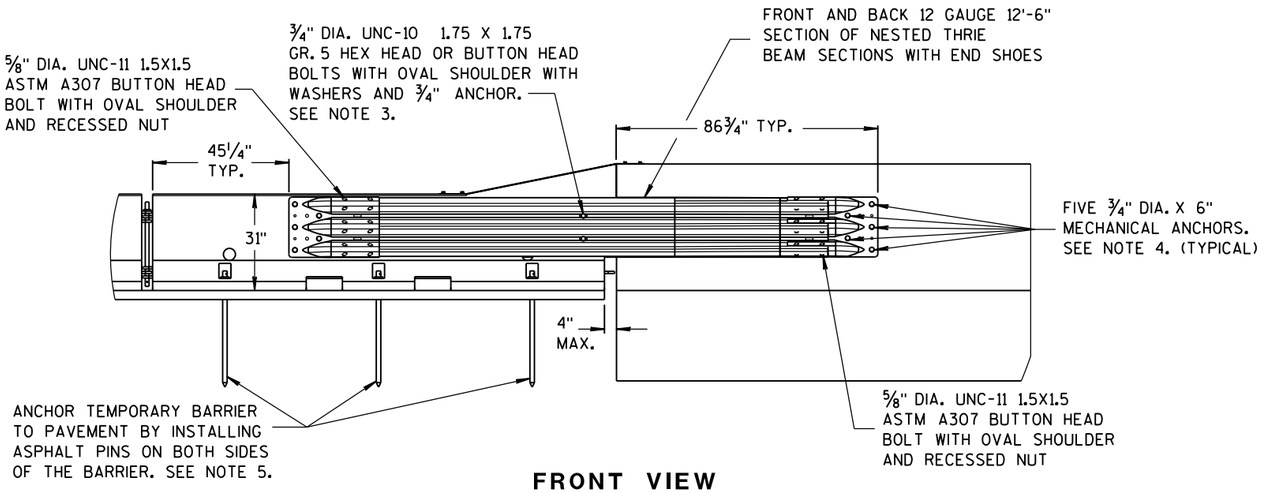
④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

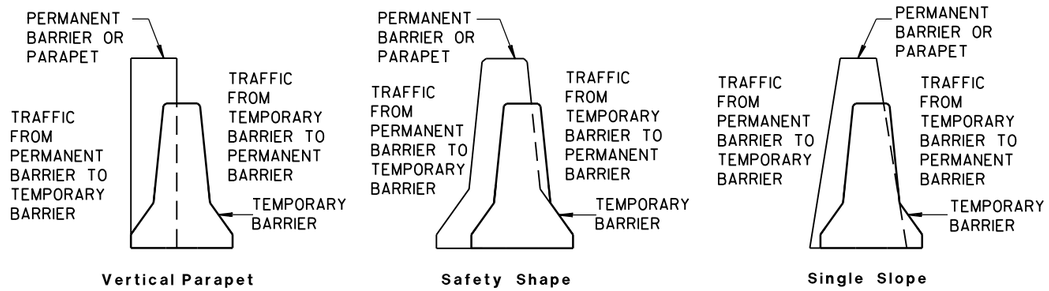
STATE OF WISCONSIN
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FRONT VIEW



TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

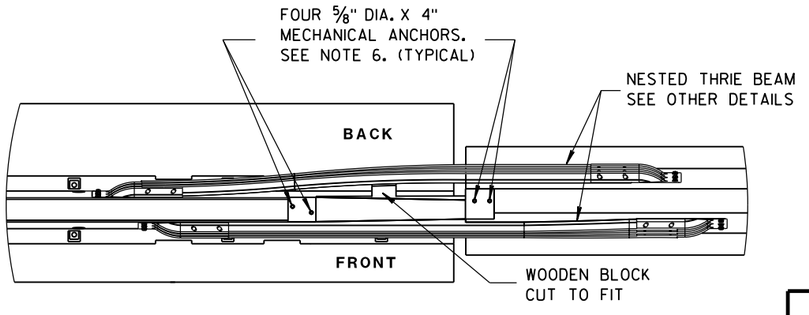
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.

BACK VIEW

FRONT VIEW



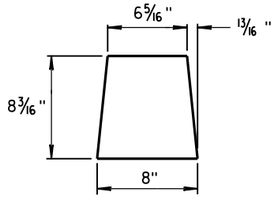
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

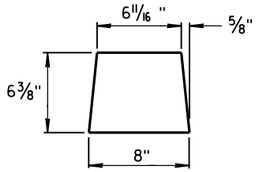
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

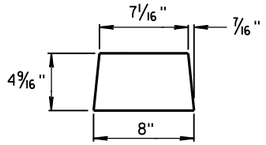
6
S.D.D. 14 B 7-14e



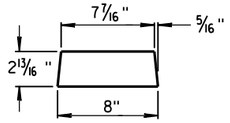
GUSSET 1



GUSSET 2

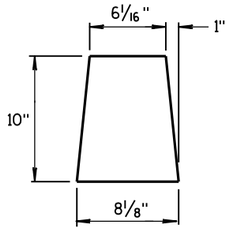


GUSSET 3

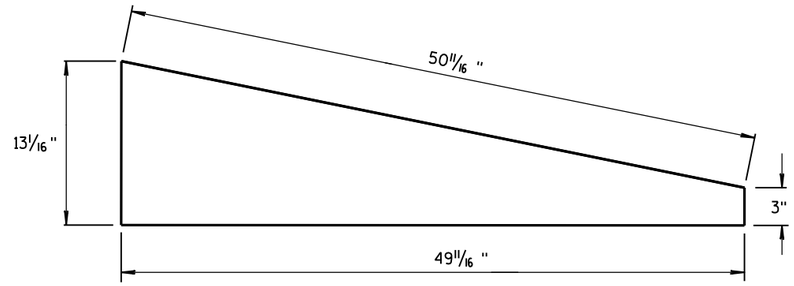


GUSSET 4

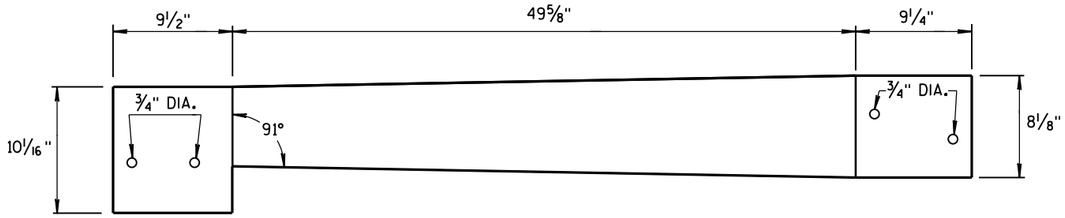
GUSSETS

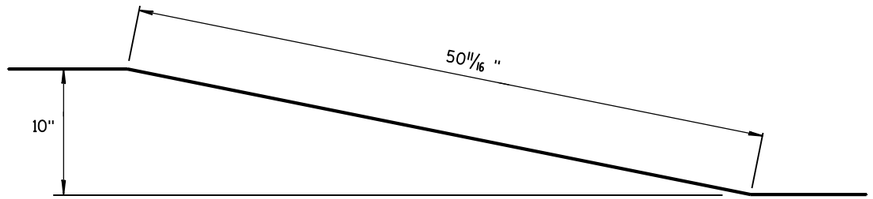


END PLATE



SIDE PLATE

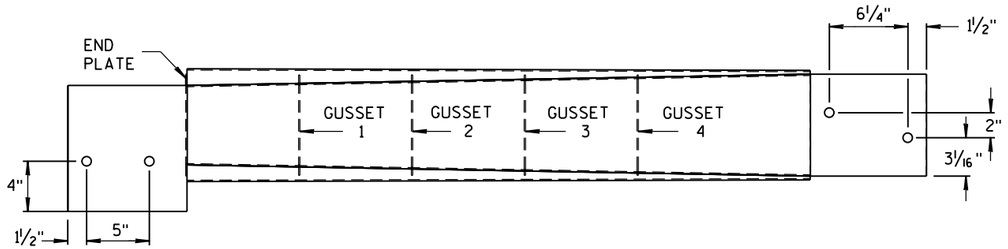


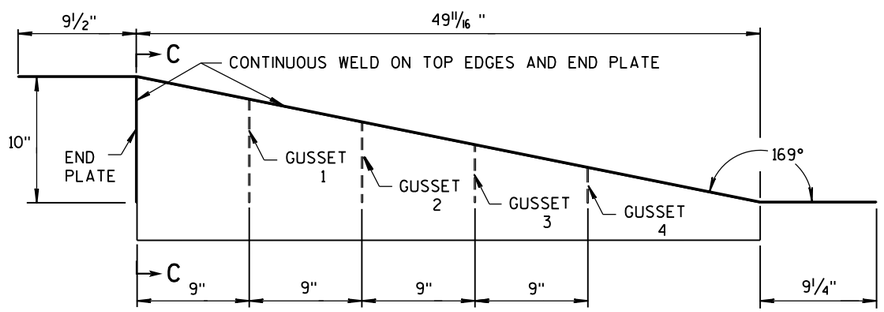


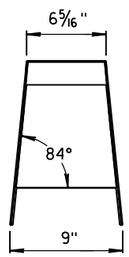
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

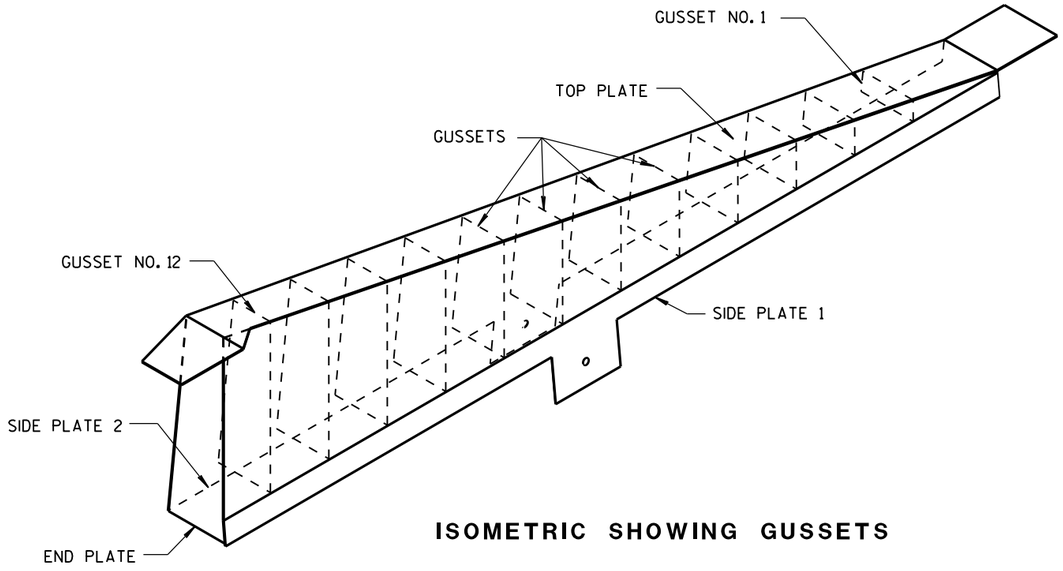
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

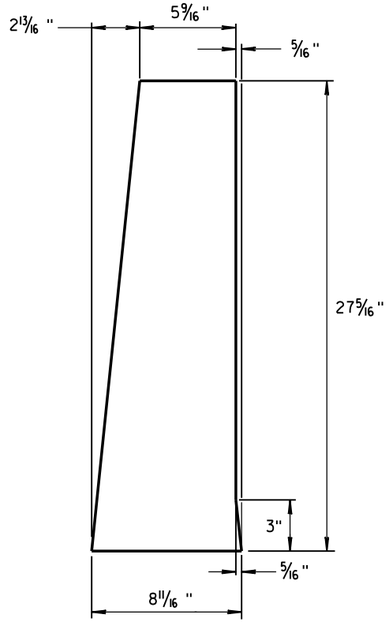
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 7-14f

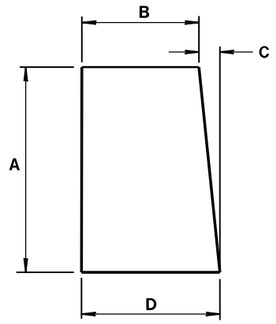


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



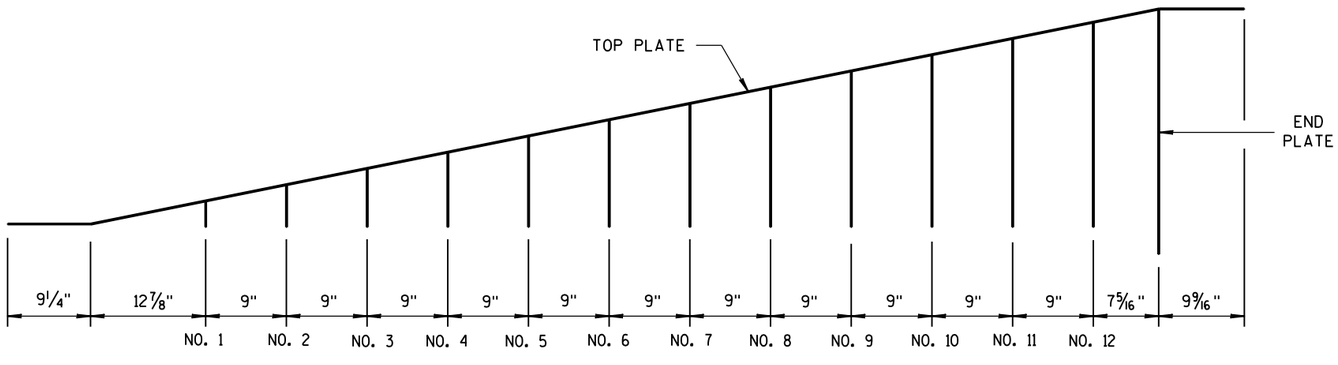
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

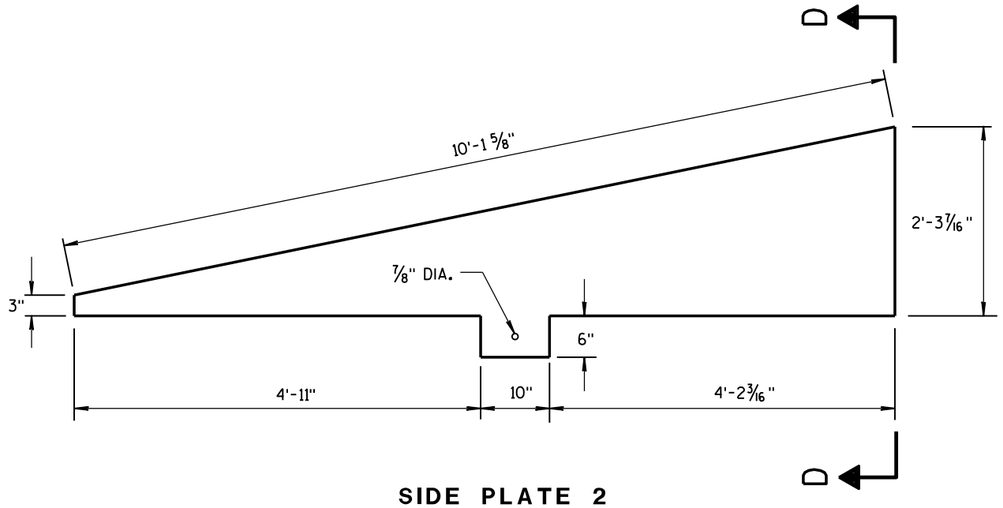
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

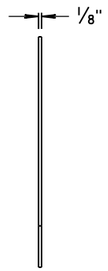
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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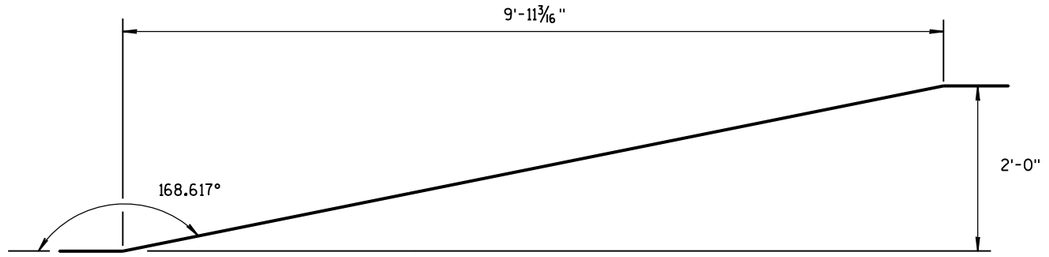
S.D.D. 14 B 7-14g



SIDE PLATE 2

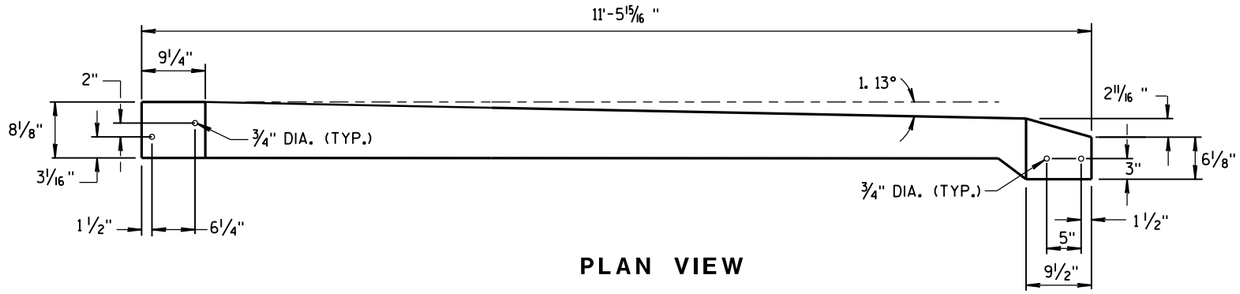


END VIEW



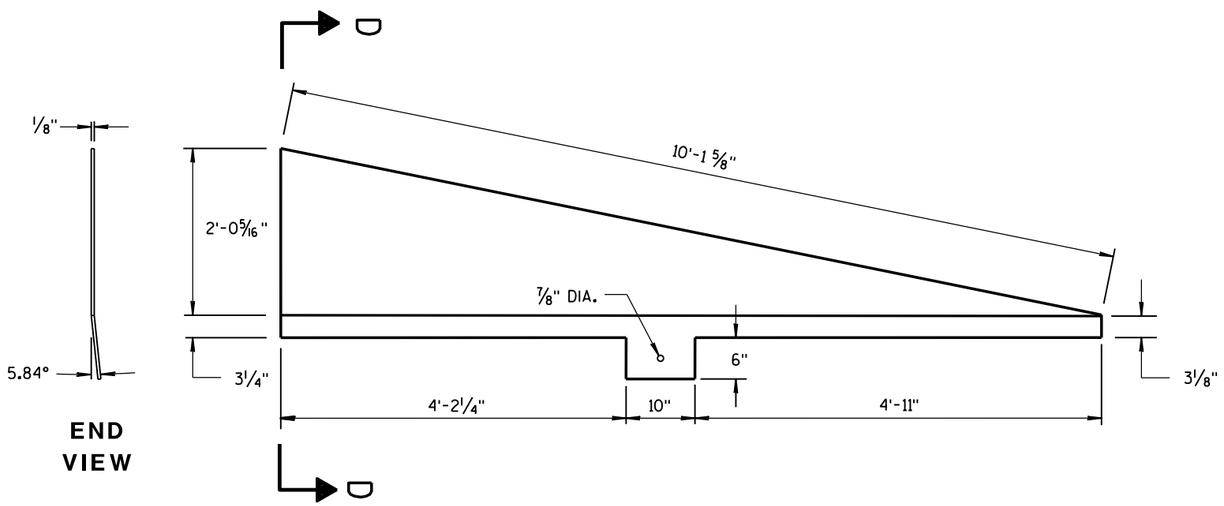
SIDE VIEW

TOP PLATE



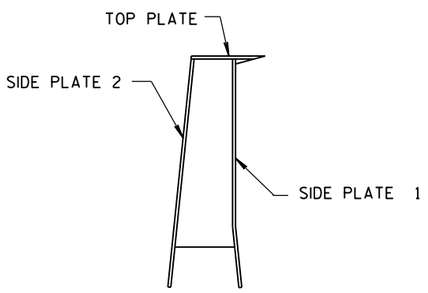
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

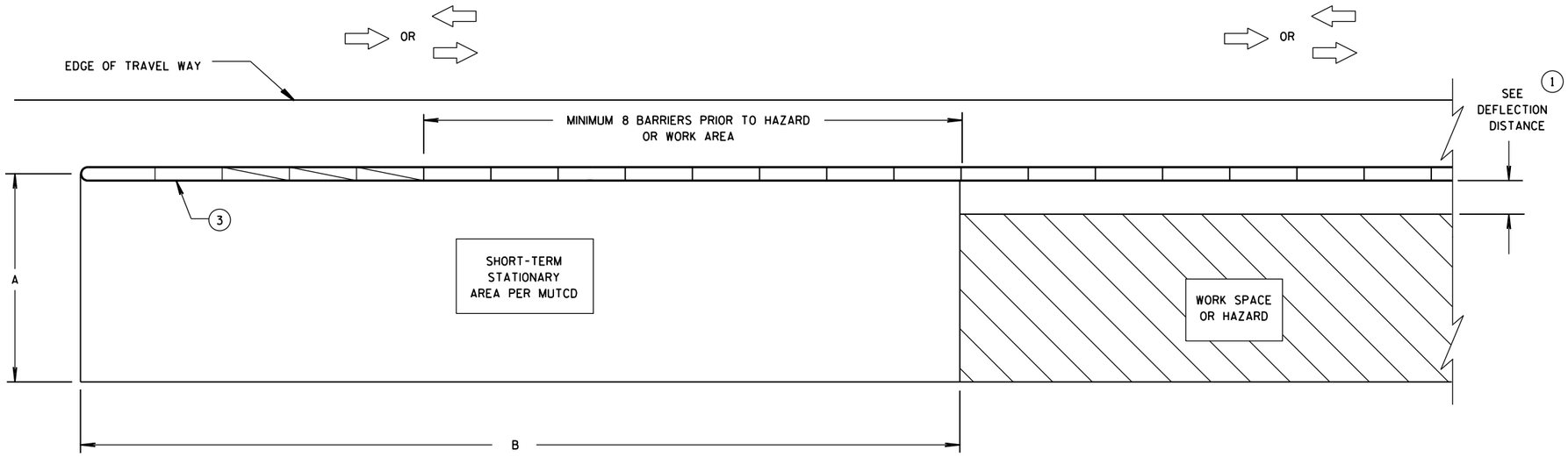
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S.D.D. 14 B 7-14h

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S.D.D. 14 B 7-14h



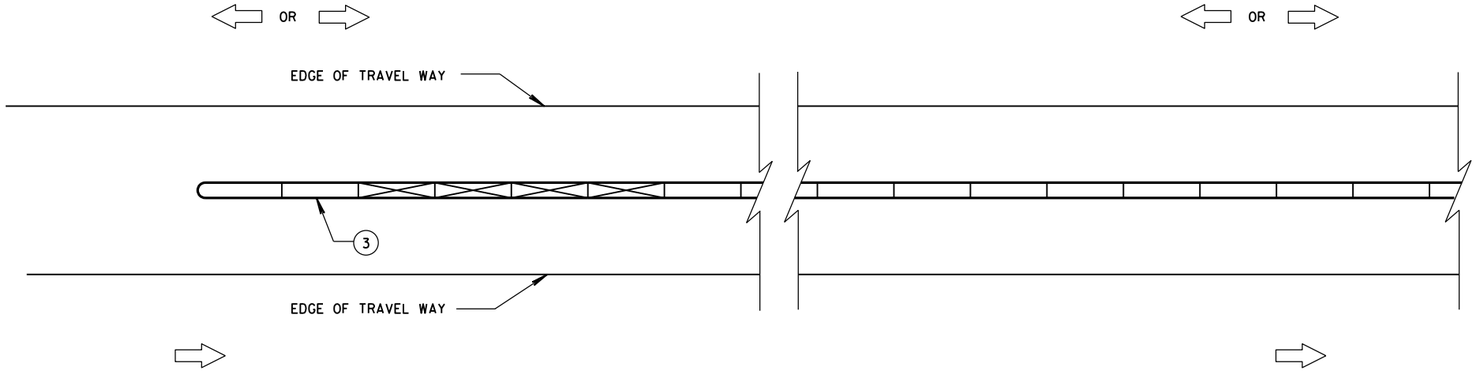
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

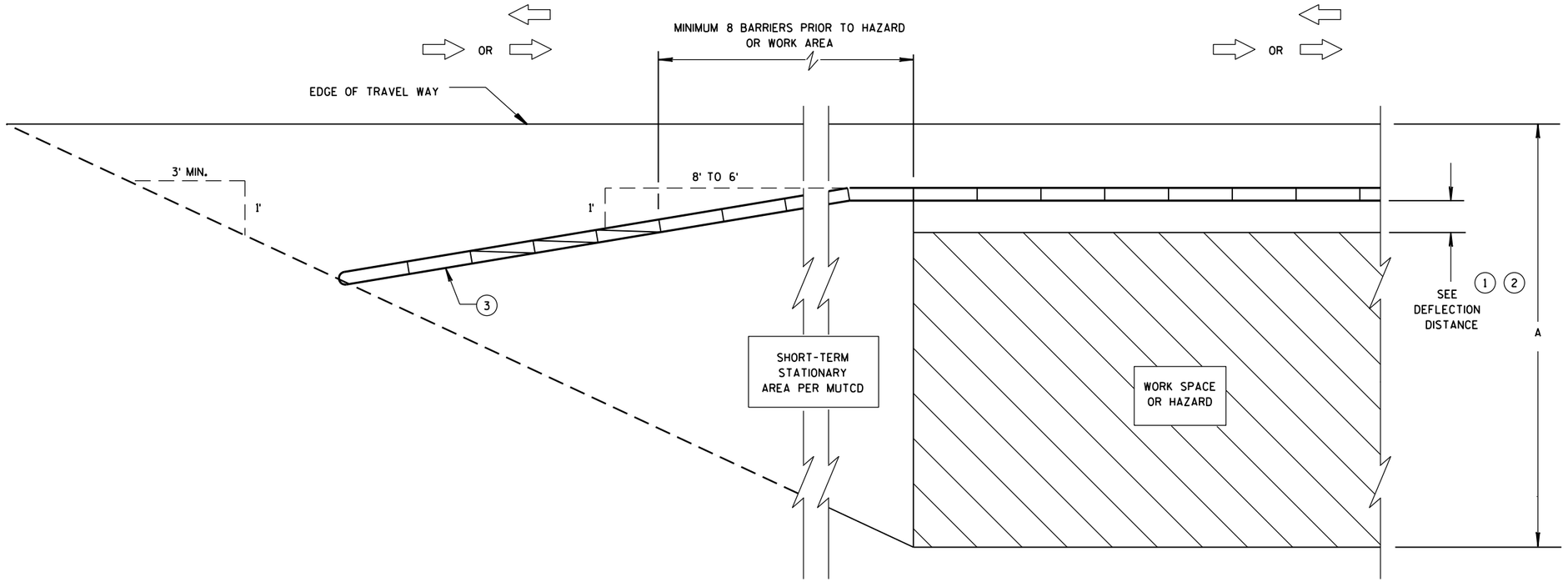
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

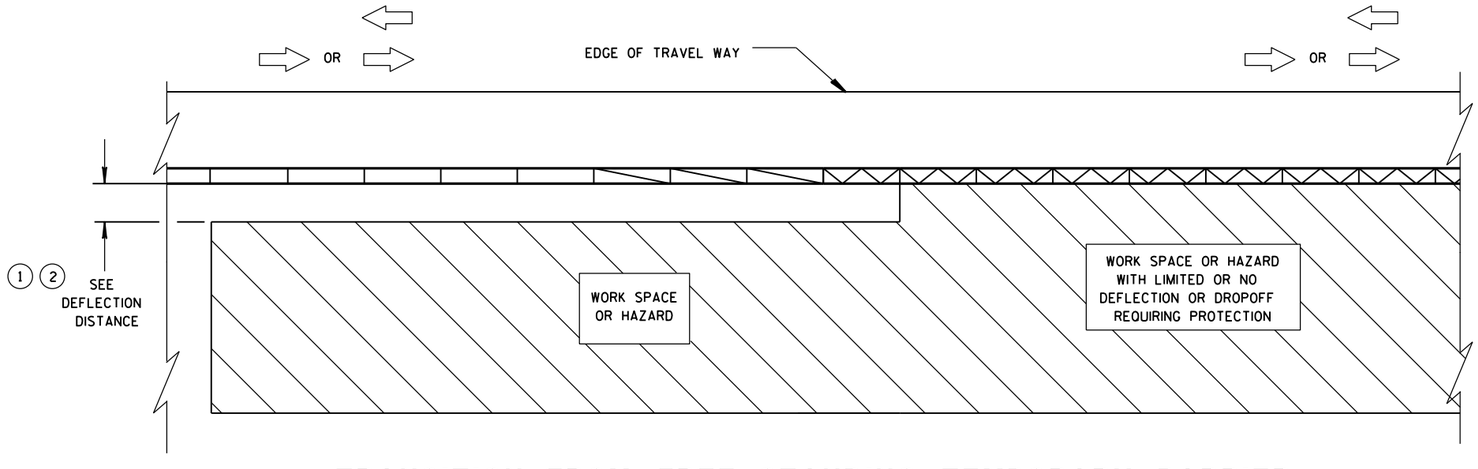
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

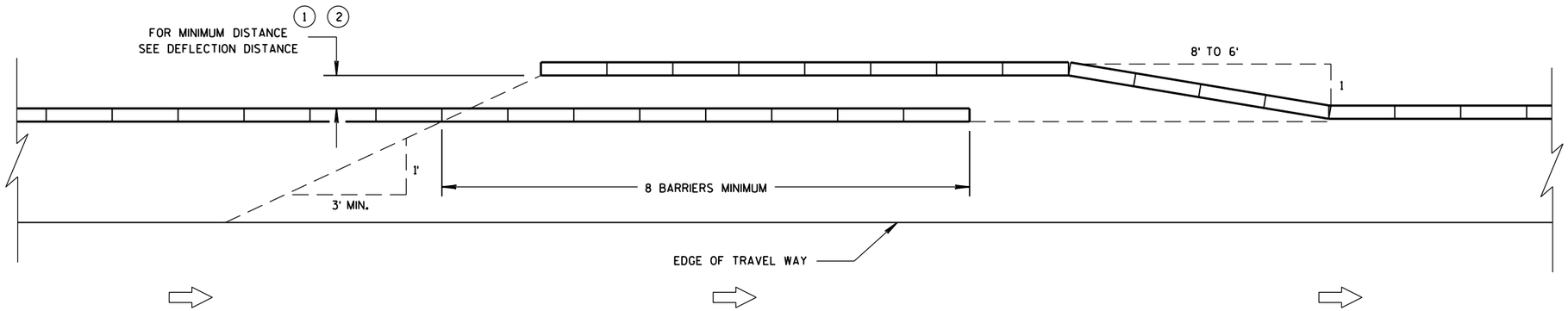
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

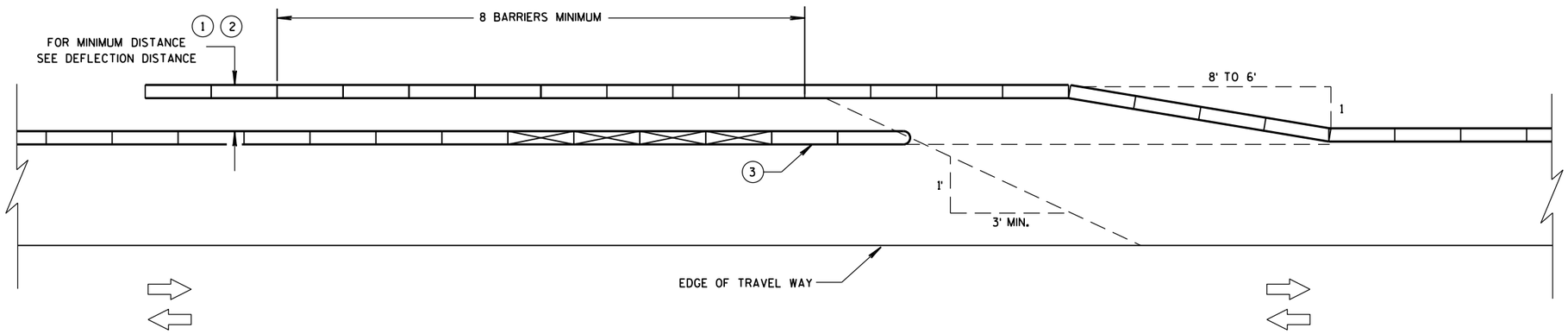
STATE OF WISCONSIN
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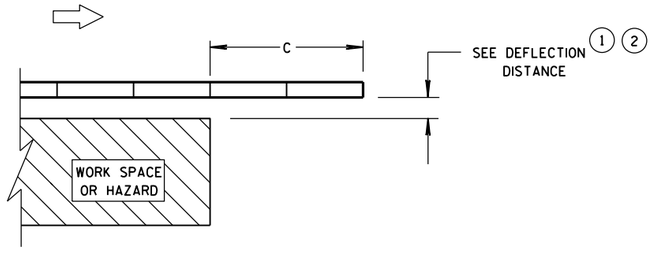
S.D.D. 14 B 8-2b



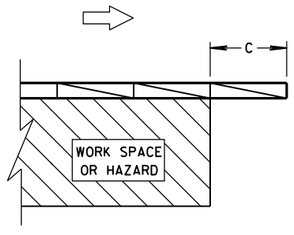
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

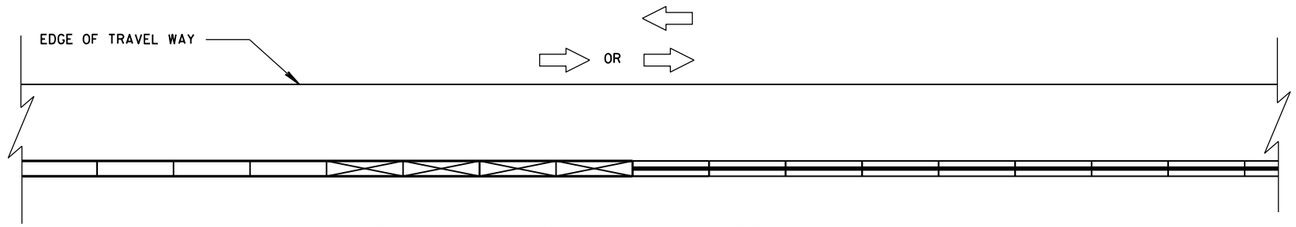
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 747

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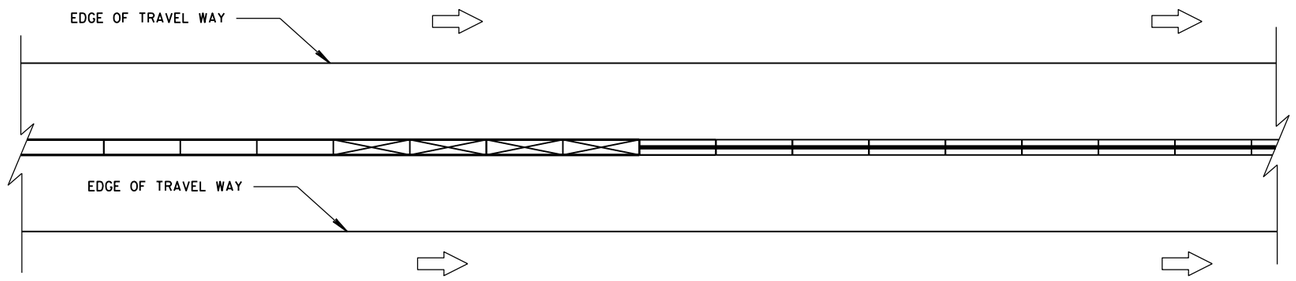
S.D.D. 14 B 8-2c

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S.D.D. 14 B 8-2c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

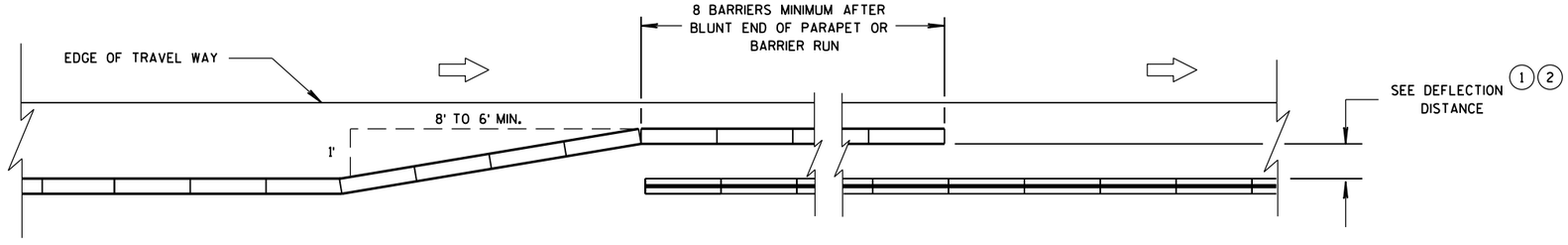
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

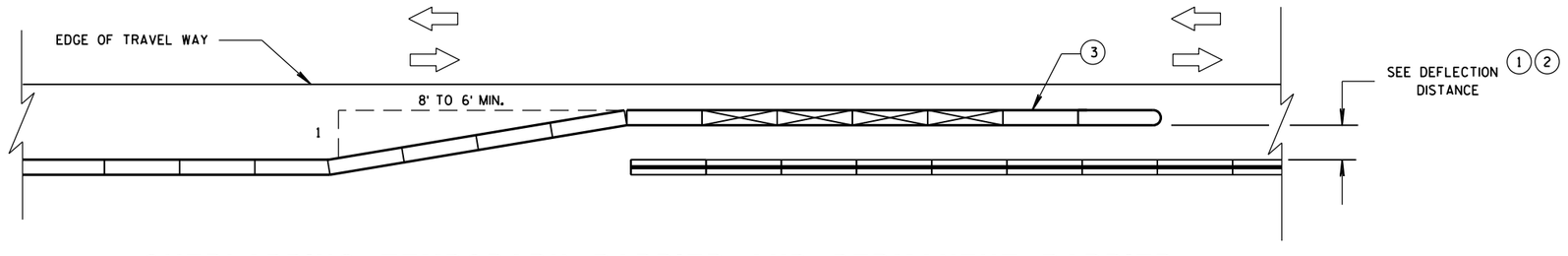
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

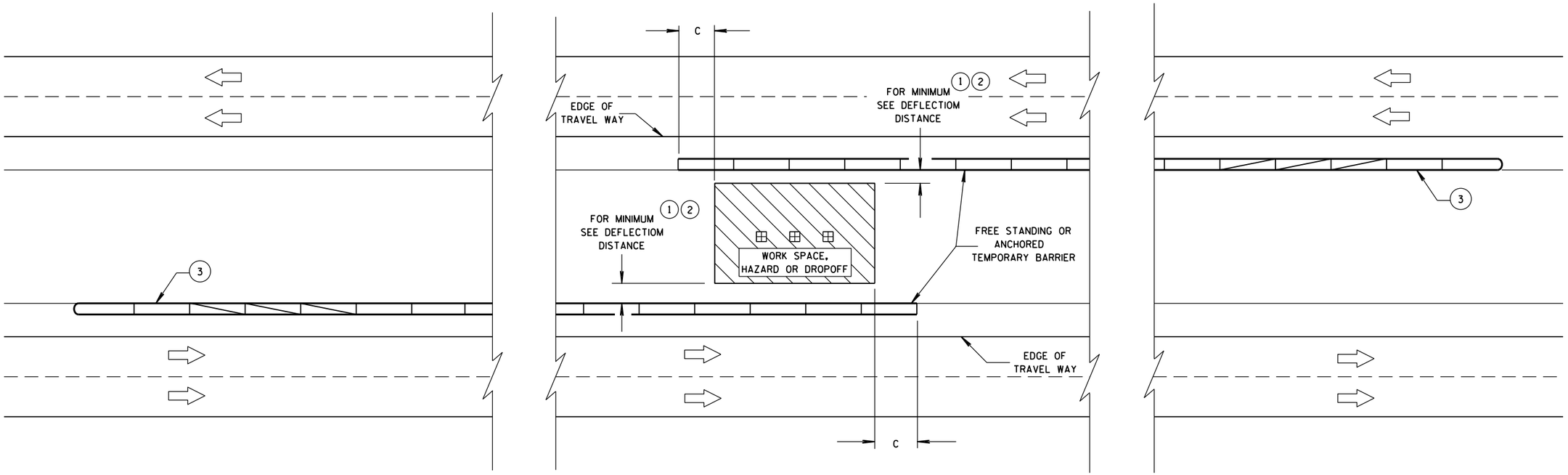
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



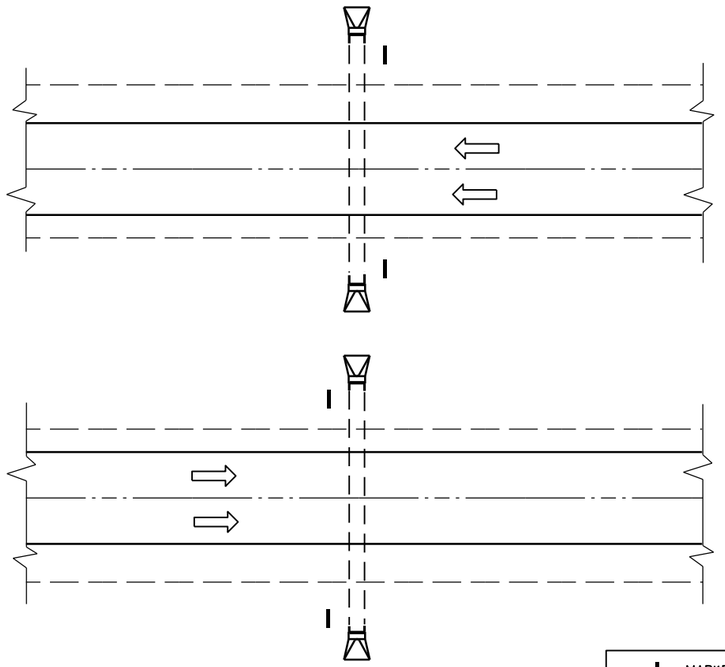
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA

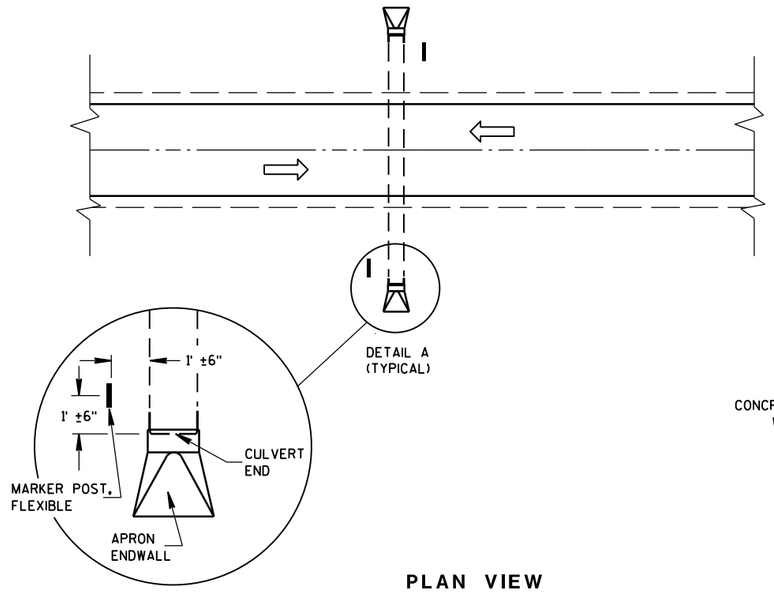
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S.D.D. 14 B 8-2e



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

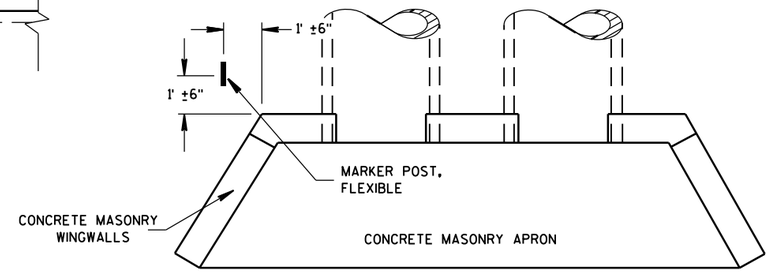
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

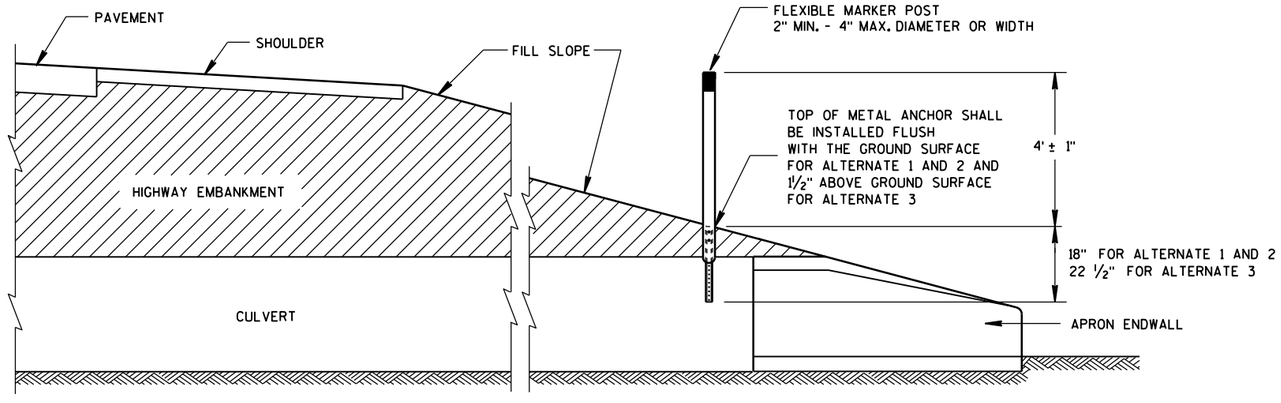
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

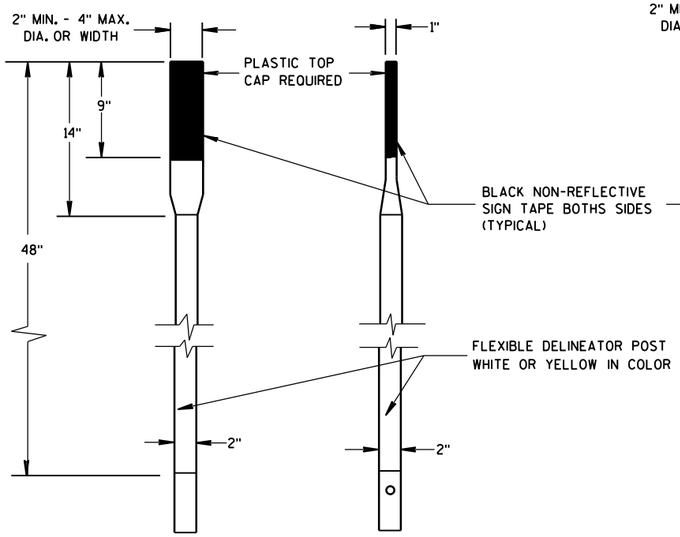
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 750

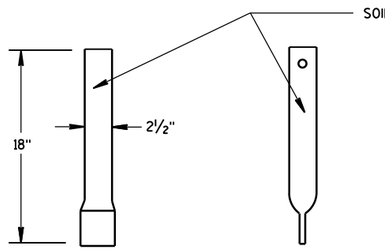
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S.D.D. 15 A 3-2a

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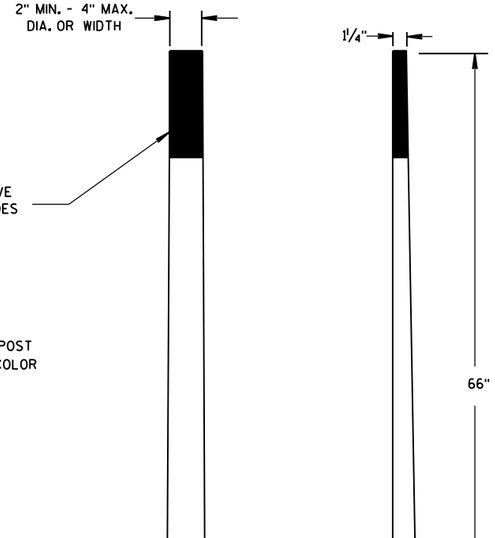
S.D.D. 15 A 3-2a





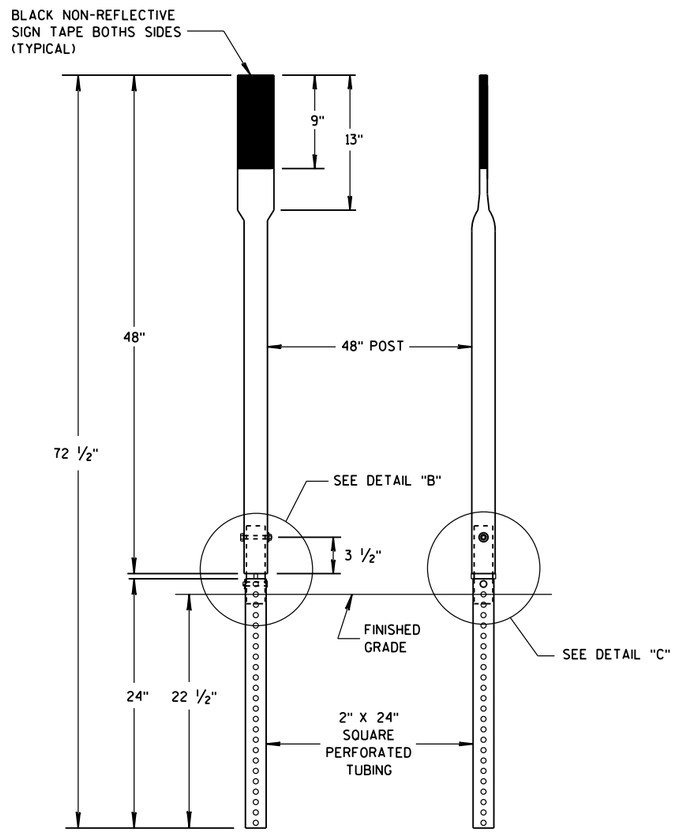
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

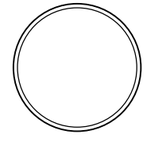
ALTERNATE 2



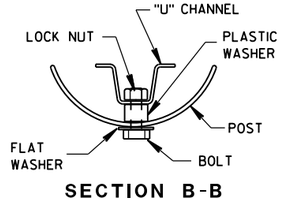
FRONT VIEW SIDE VIEW

ALTERNATE 3

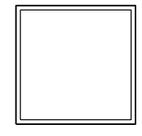
FLEXIBLE MARKER POSTS



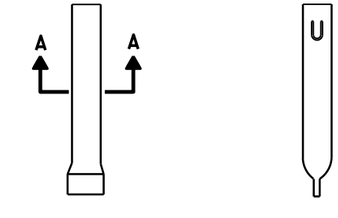
SECTION A-A



SECTION B-B

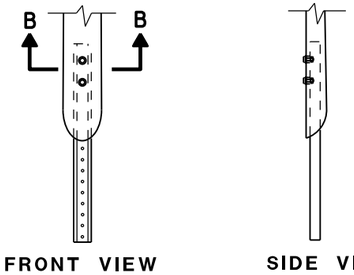


SECTION C-C



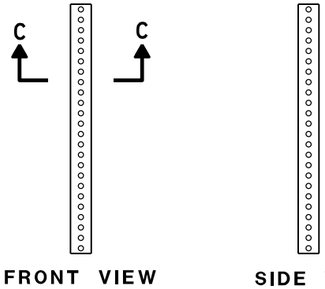
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

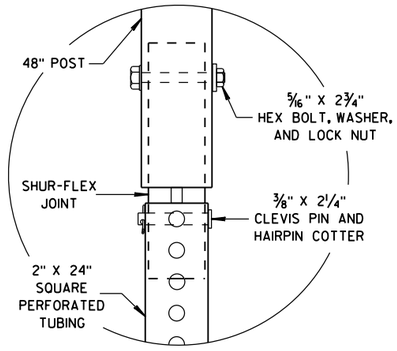
ALTERNATE 2



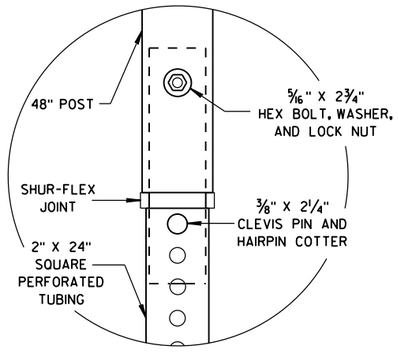
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

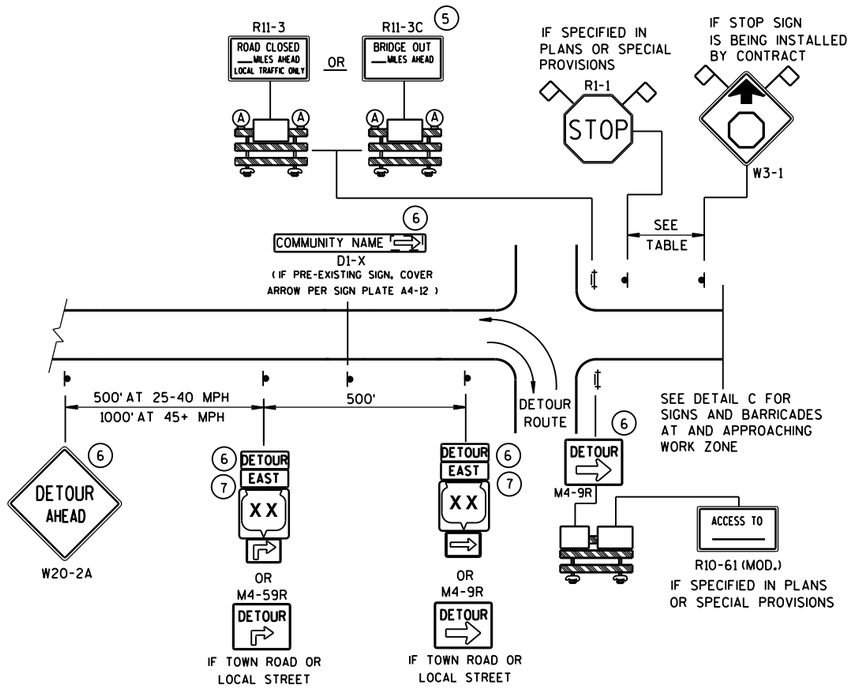
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
751
IGN
FHWA

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S.D.D. 15 A 3-2b

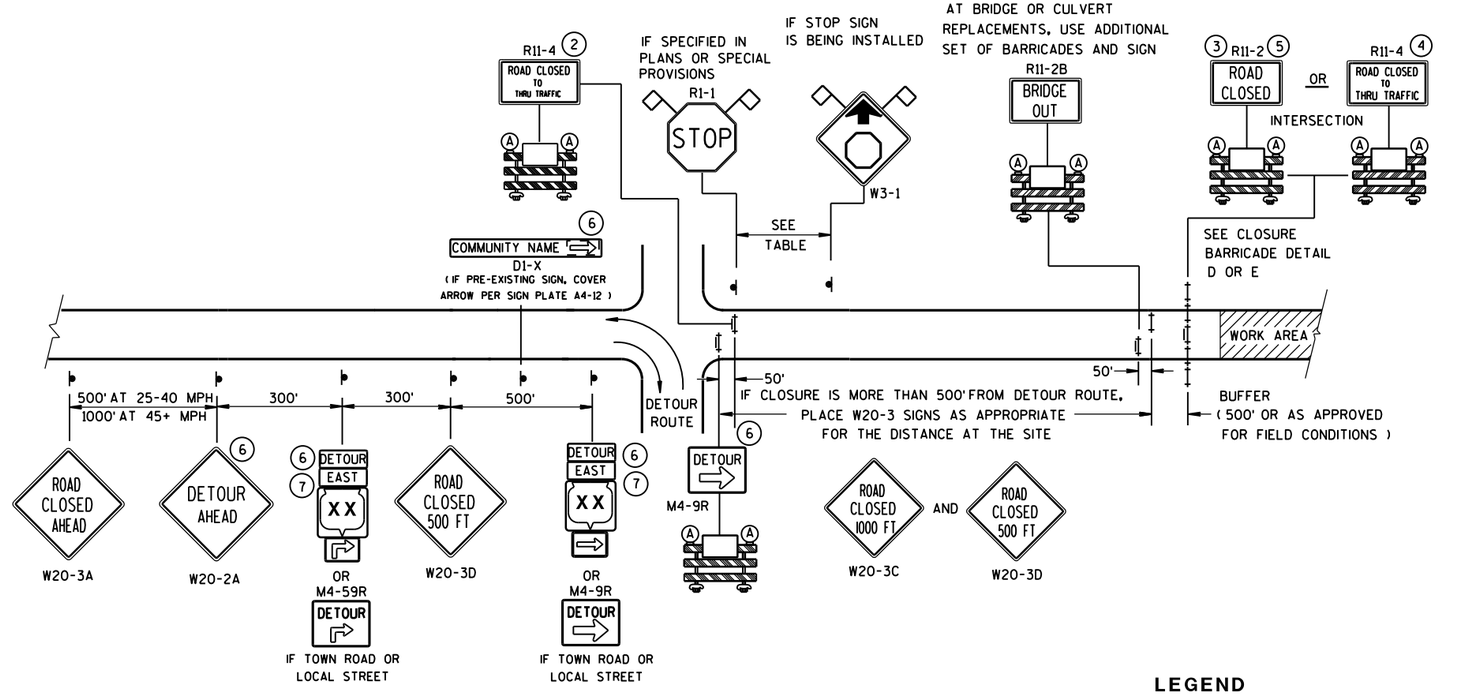
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S.D.D. 15 A 3-2b



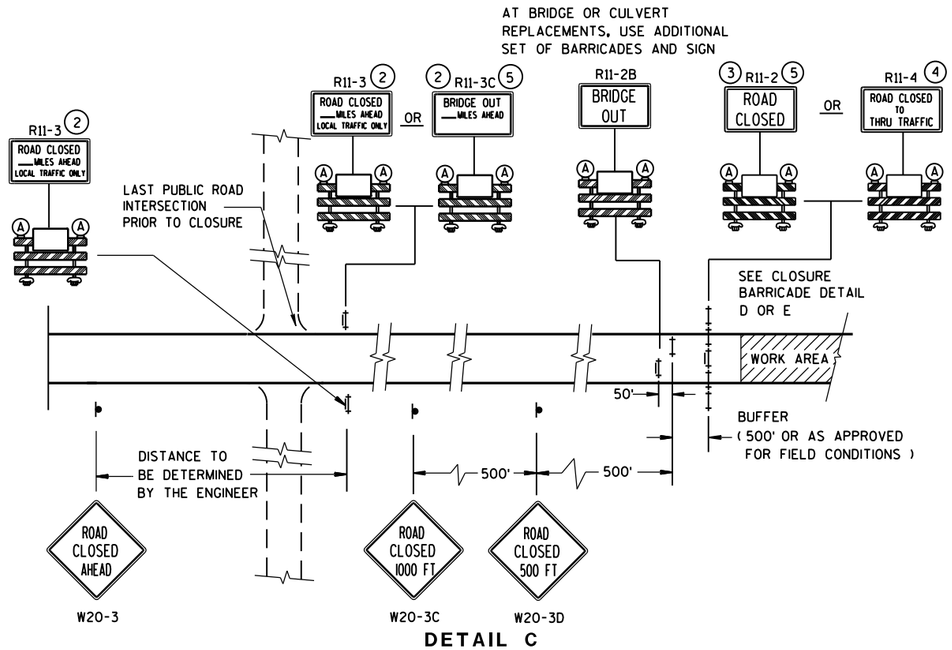
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

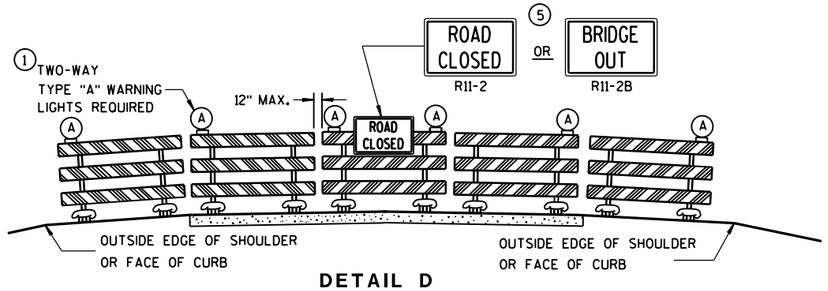
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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S.D.D. 15 C 2-6a

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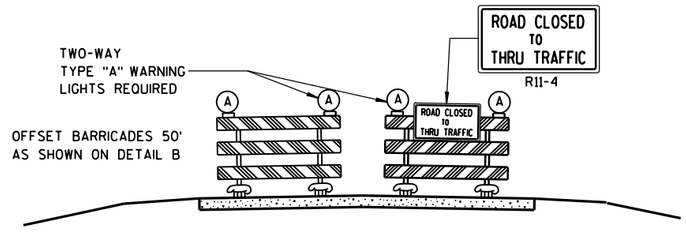
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

753

FHWA — FIC

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S.D.D. 15 C 2-6b

6

S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

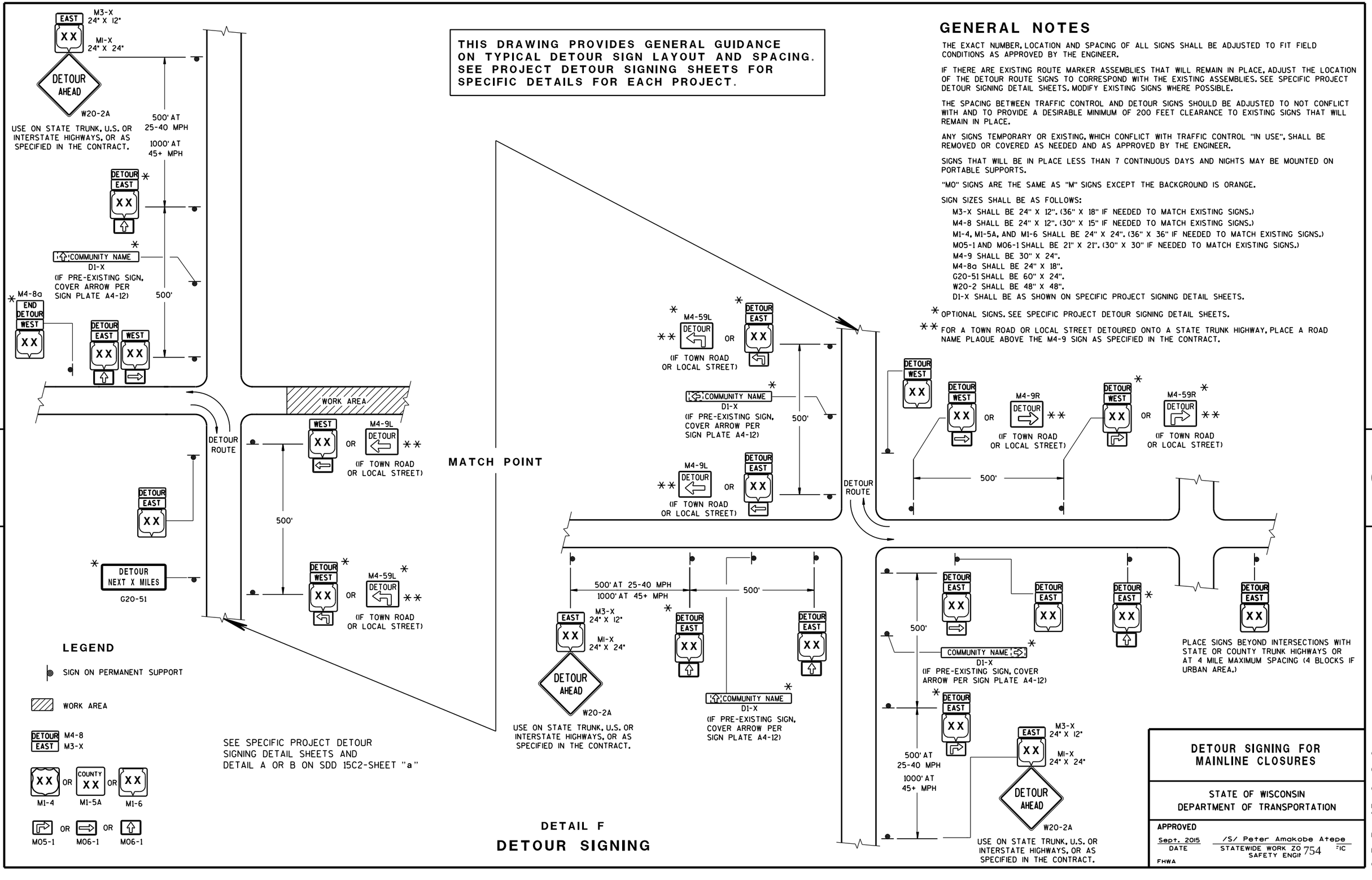
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

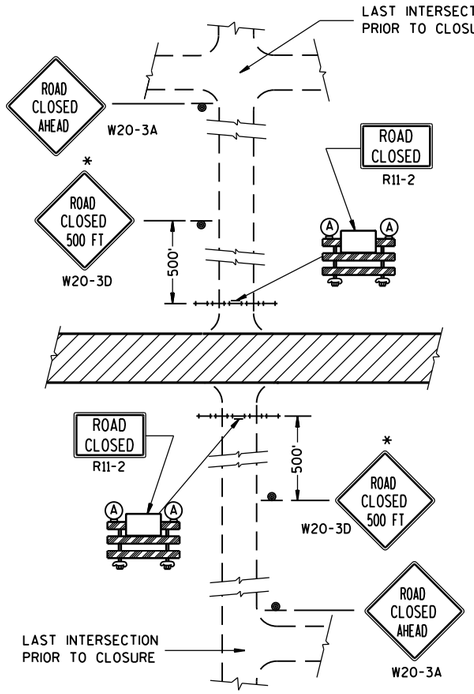
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... FIC

FHWA

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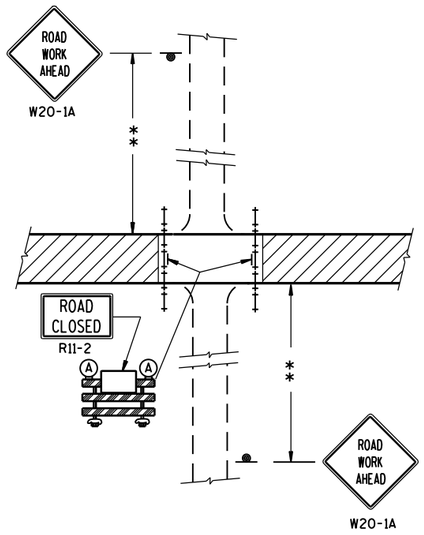
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S.D.D. 15 C 2-6c



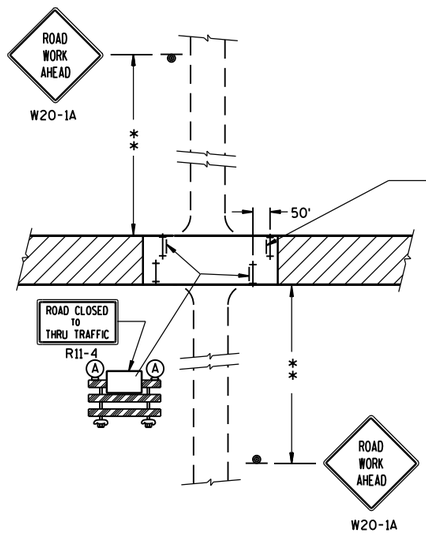
DETAIL 1

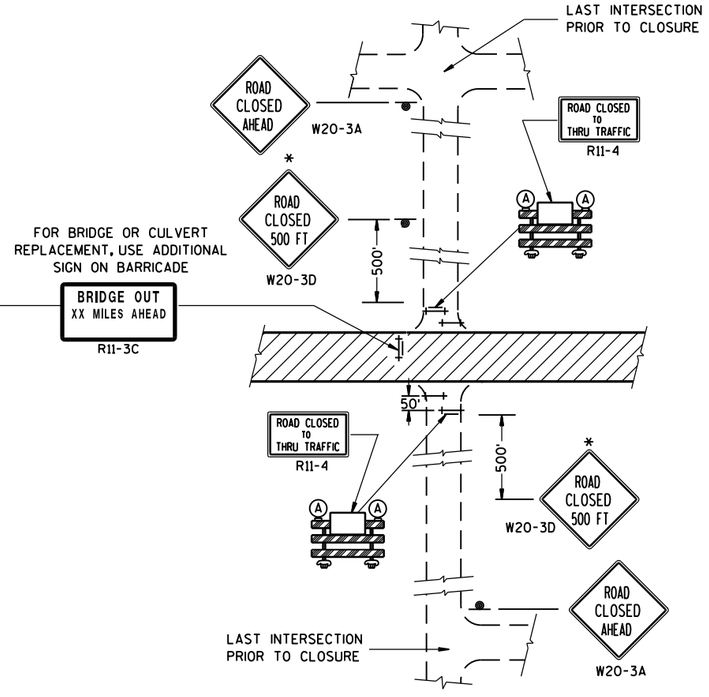
(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

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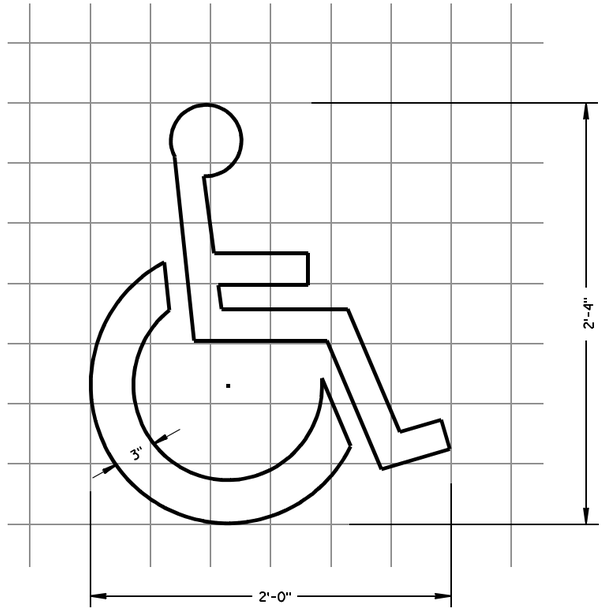
S.D.D. 15 C 3-3

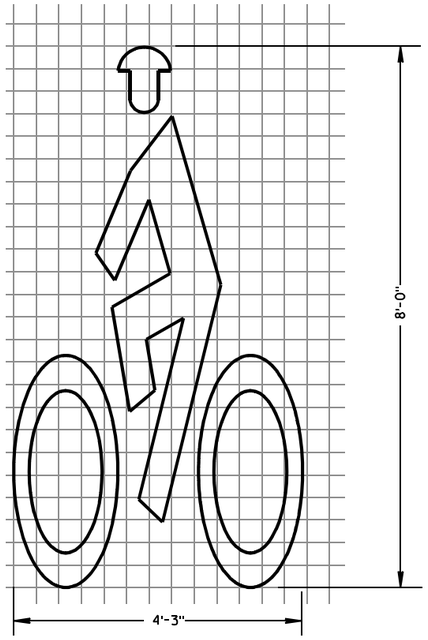
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

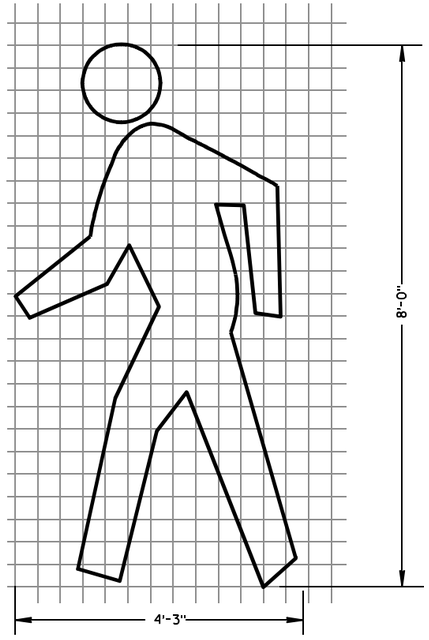
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A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

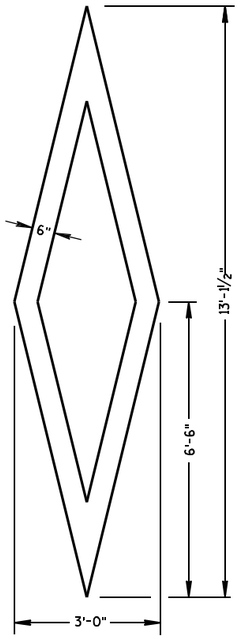




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

6

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S.D.D. 15 C 7-12a

S.D.D. 15 C 7-12a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11
DATE

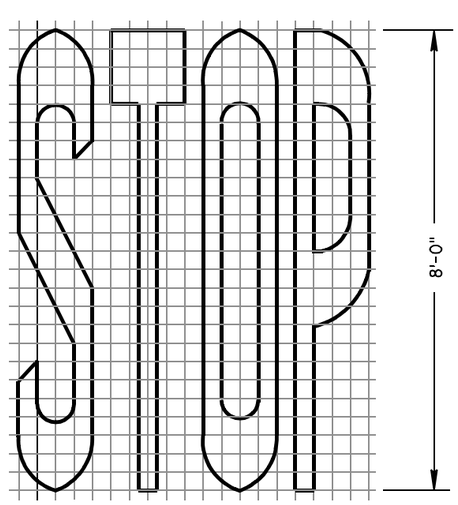
/S/ Thomas N Nathan
STATE TRAFFIC ENGINEER

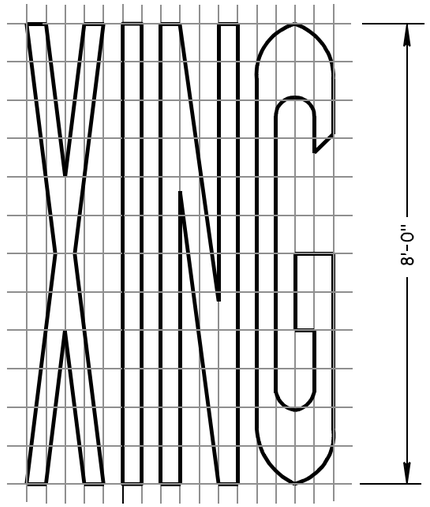
FHWA

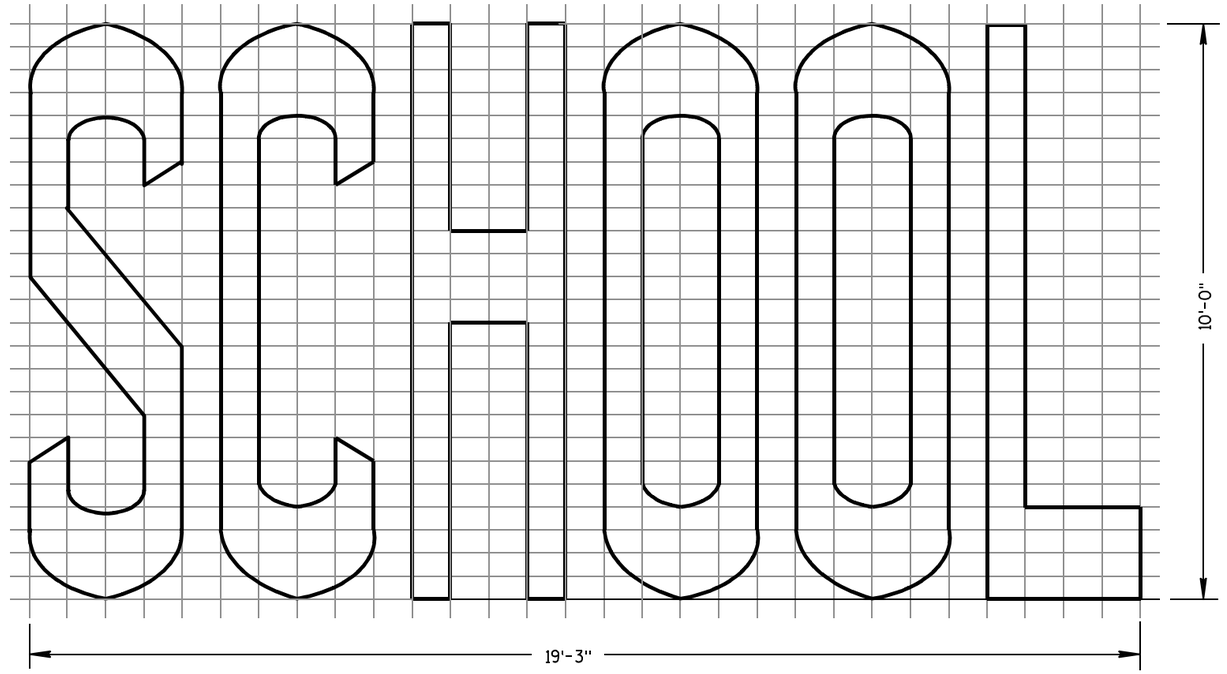
GENERAL NOTES

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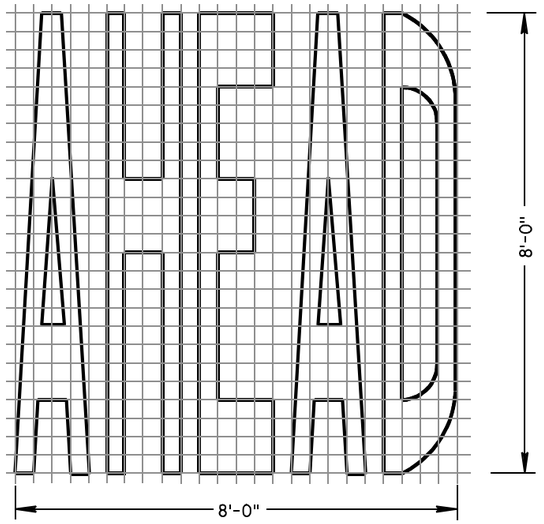
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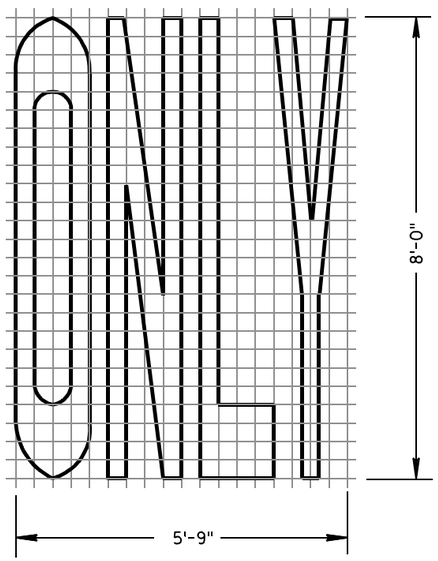


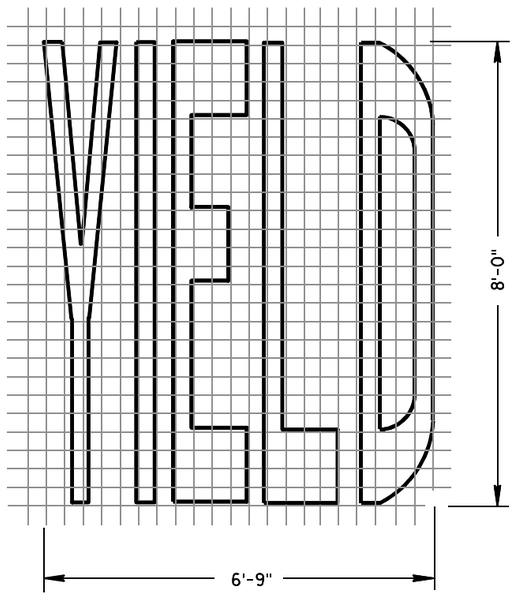


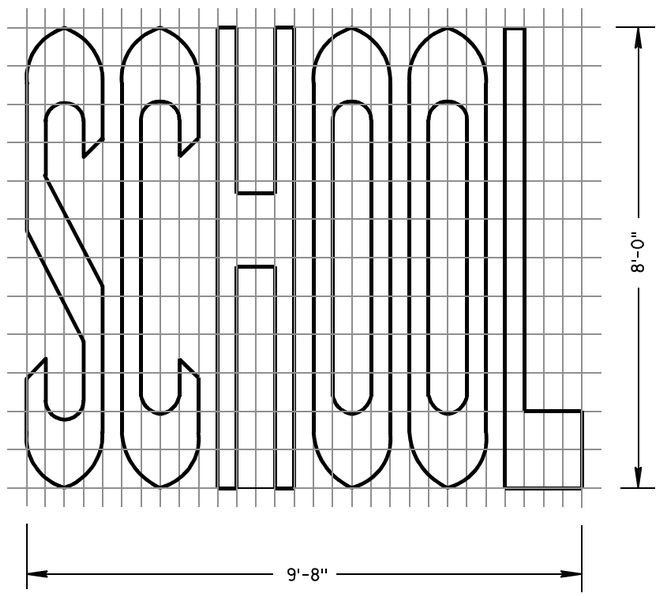


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

757 IGN

FHWA

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S.D.D. 15 C 7-12b

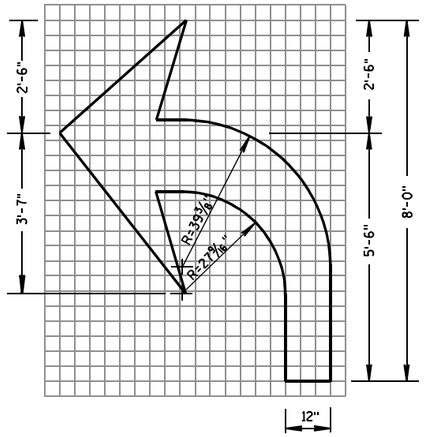
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S.D.D. 15 C 7-12b

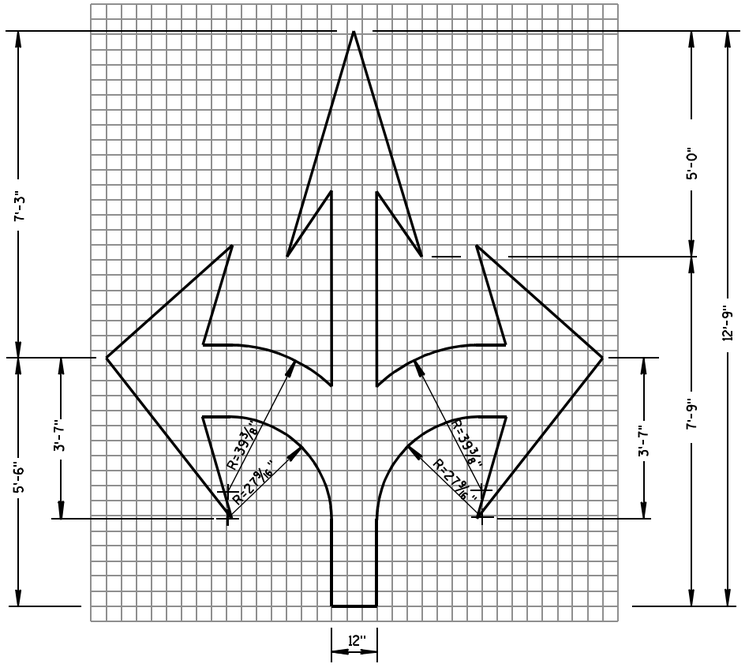
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

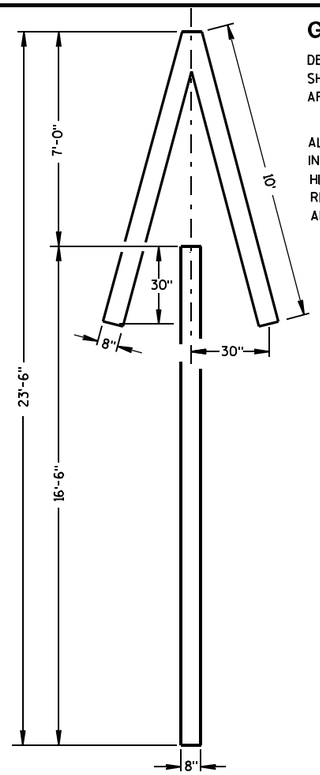
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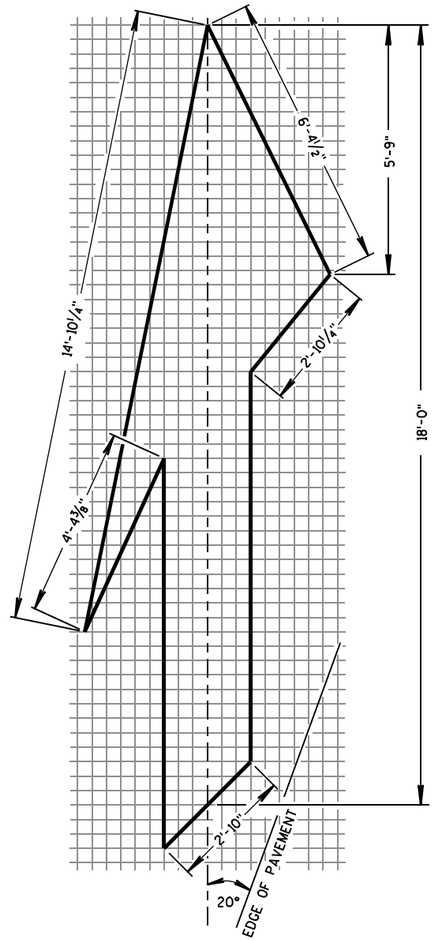
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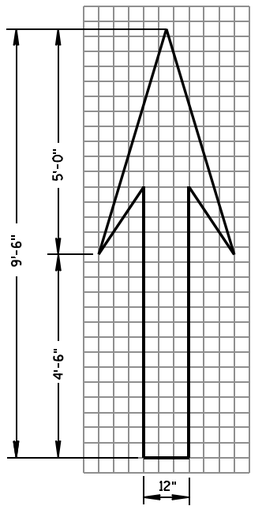
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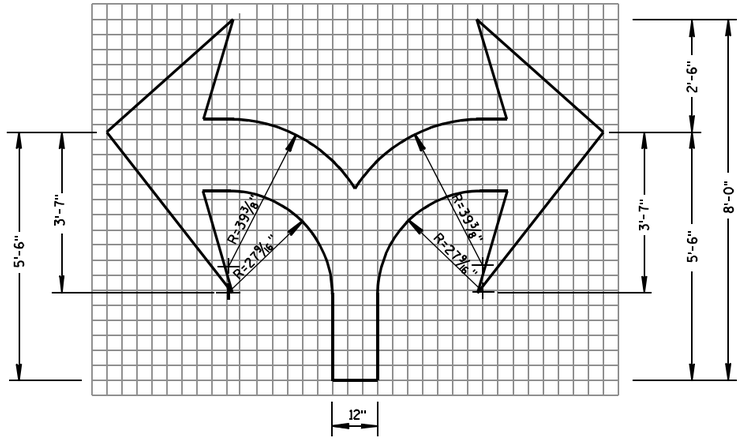
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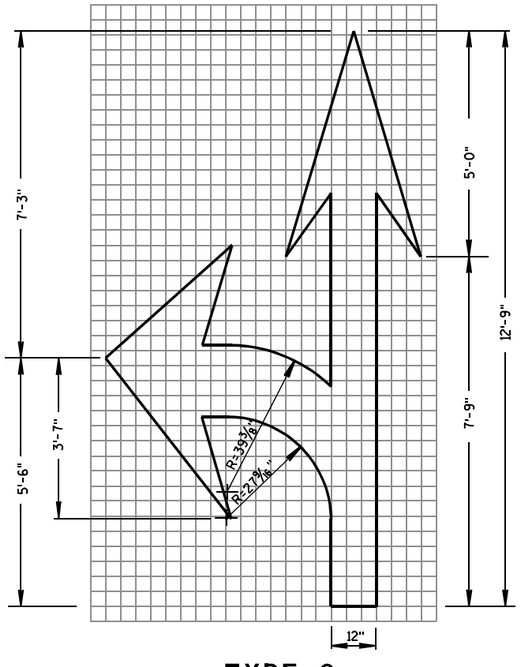
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

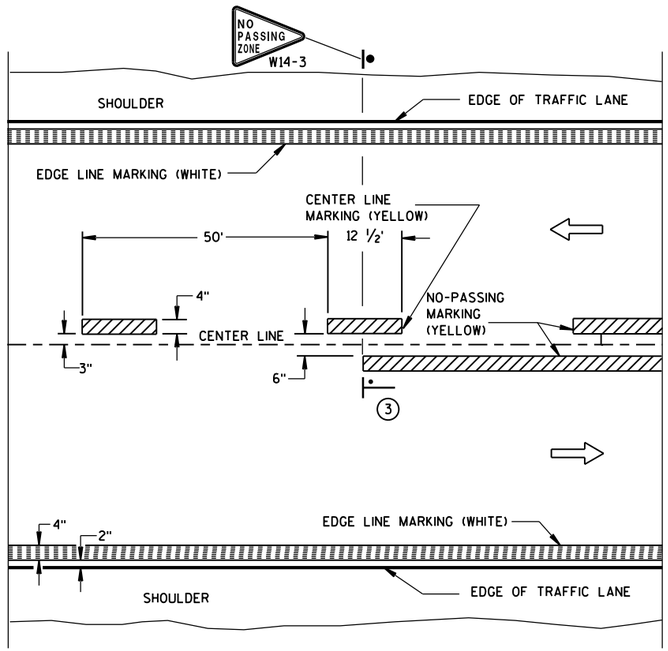
7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

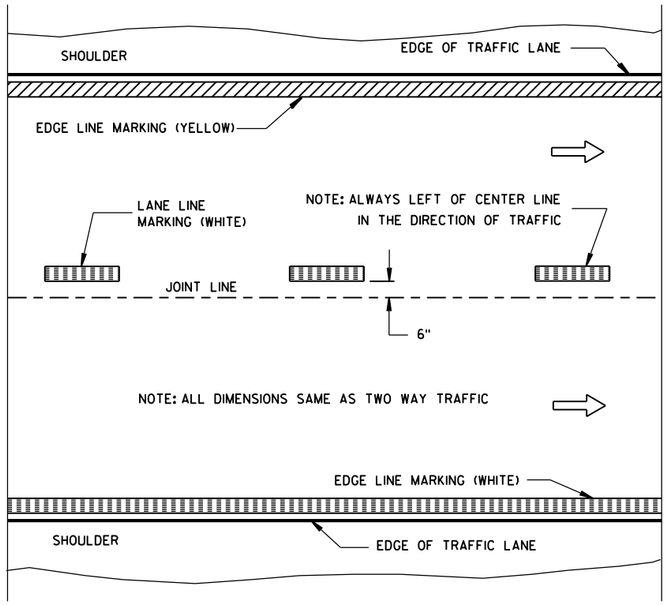
FHWA

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S.D.D. 15 C 7-12c

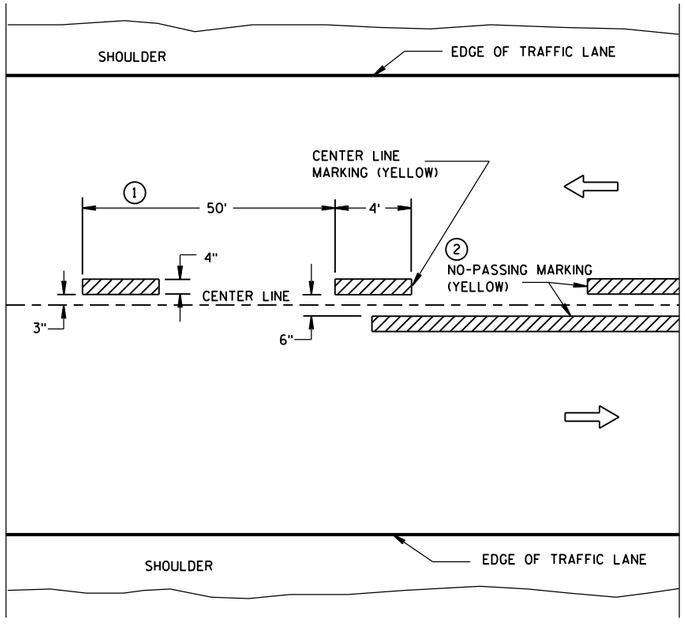


TWO WAY TRAFFIC

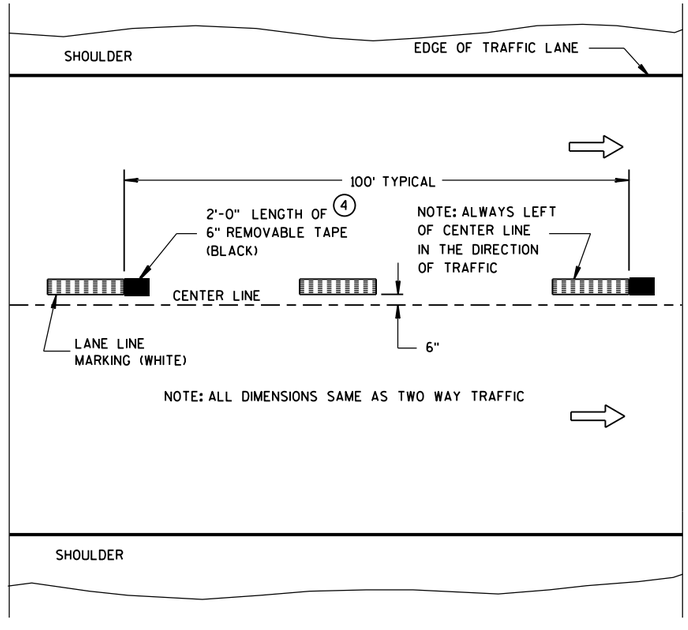


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

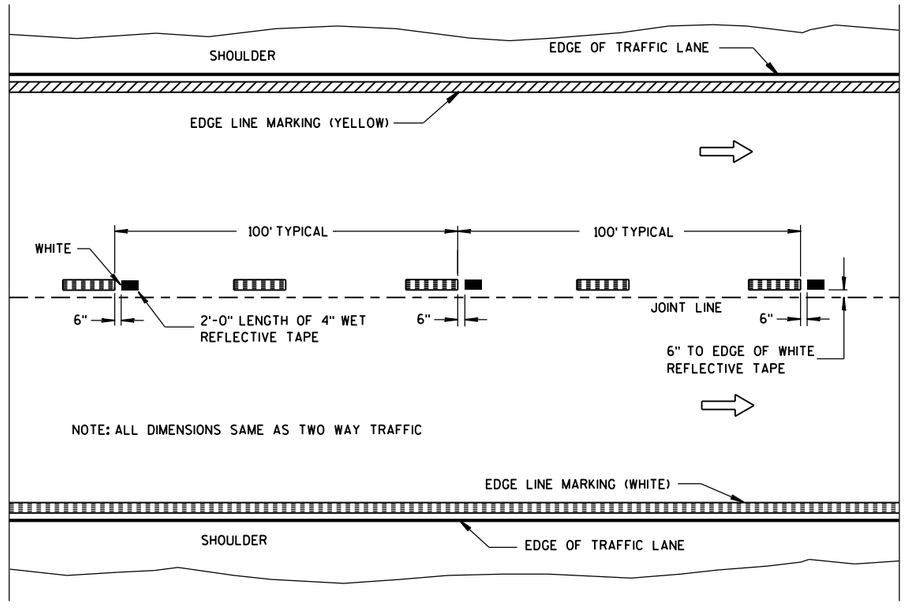
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

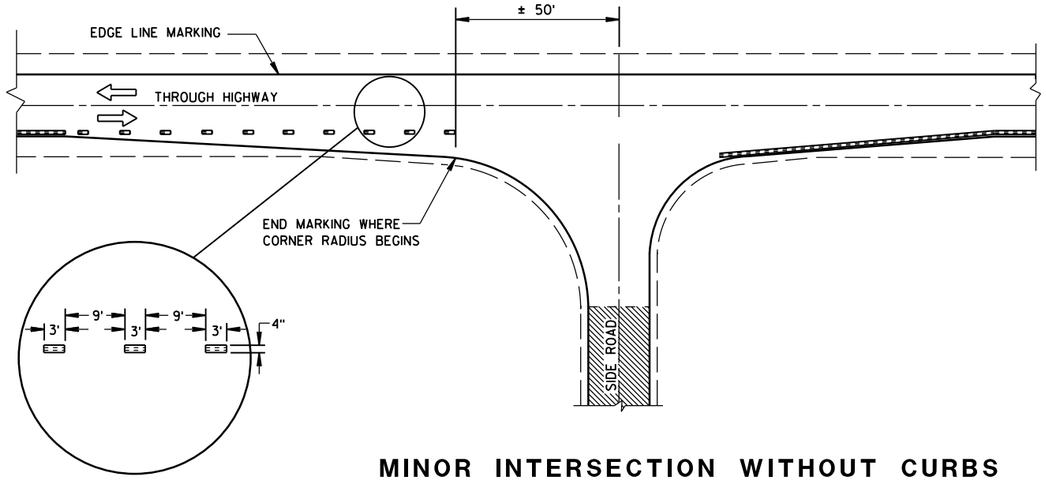
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E 759
FHWA

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S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

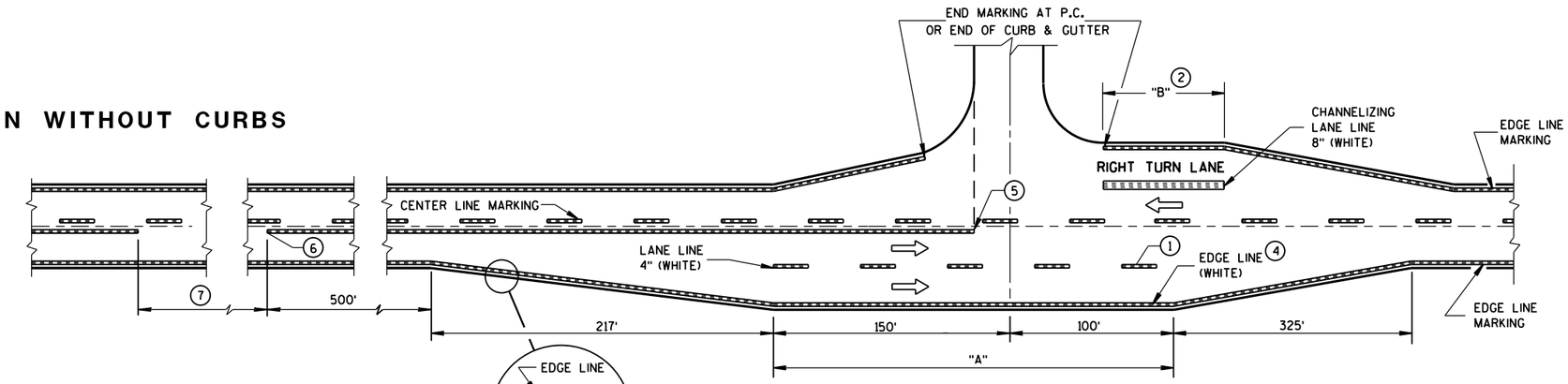
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

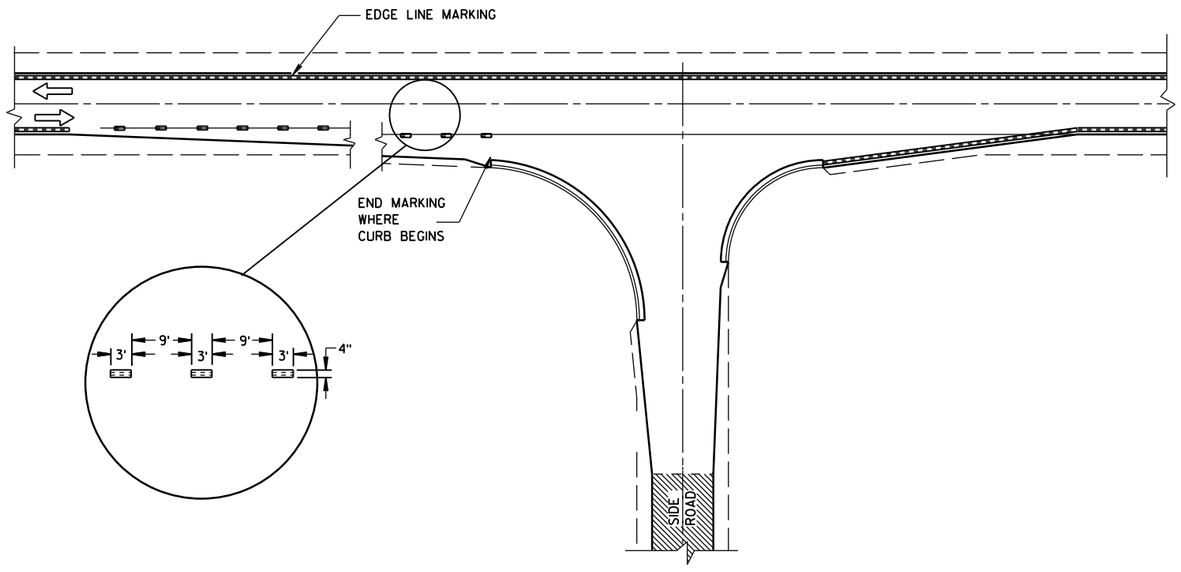
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



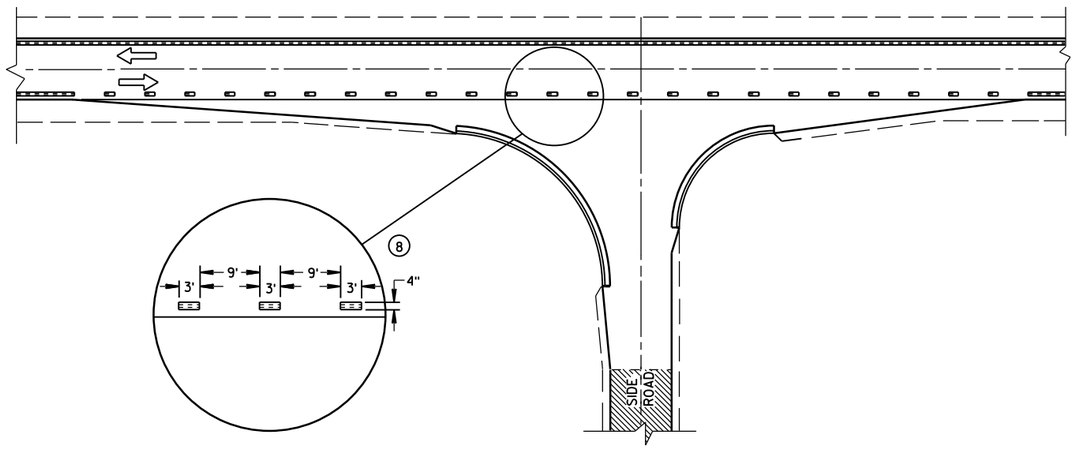
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

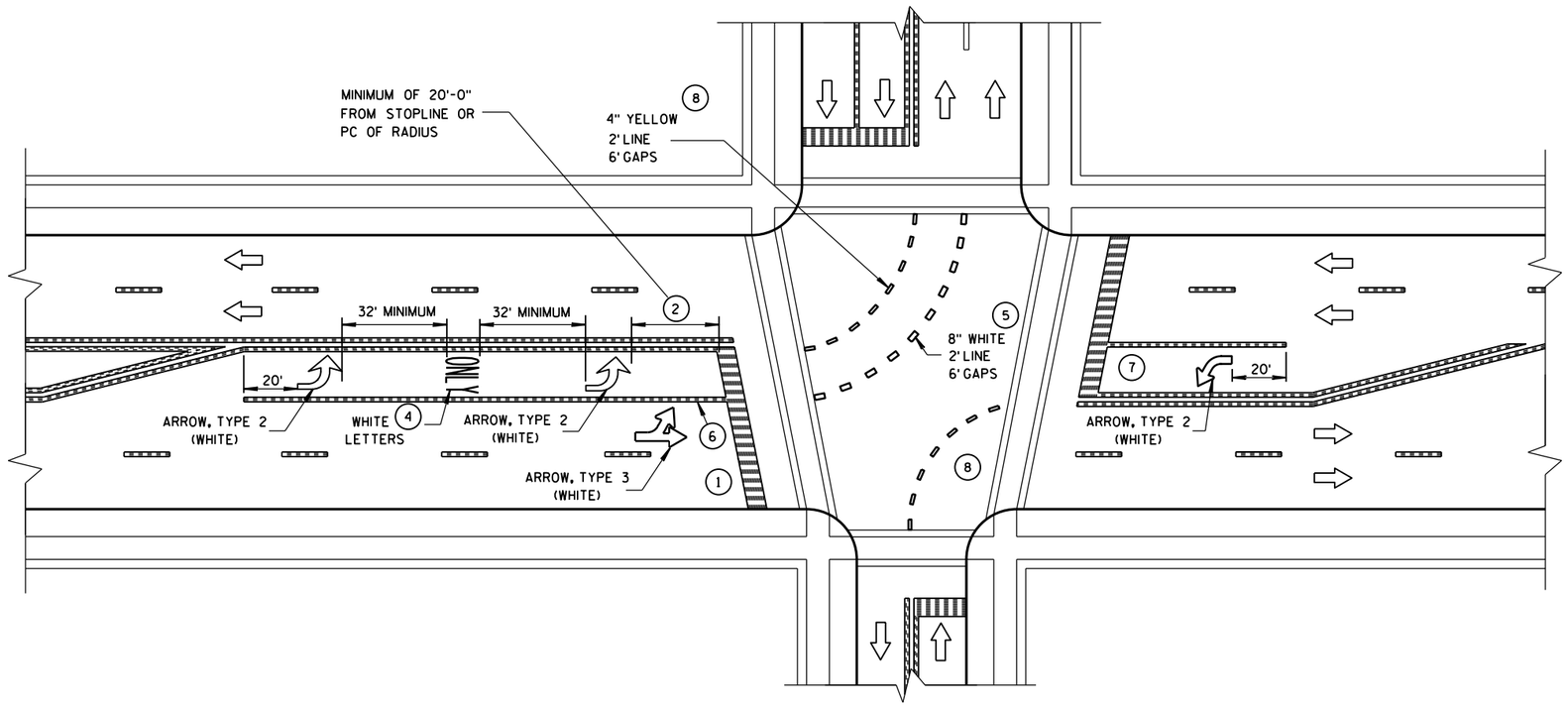
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 760

6

S.D.D. 15 C 8-16b

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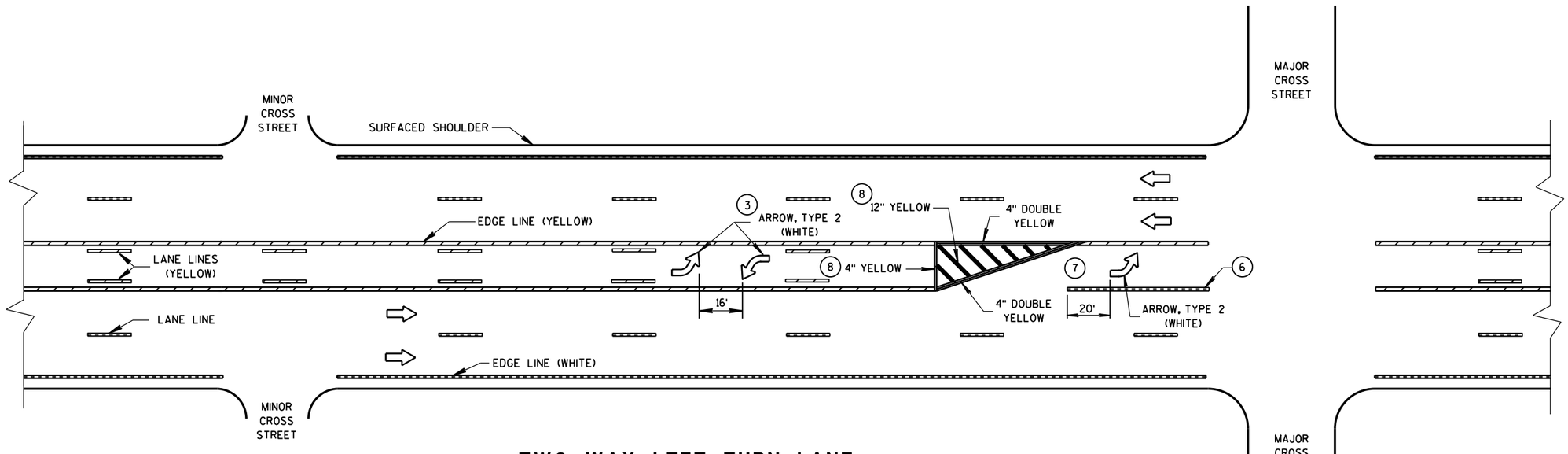
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



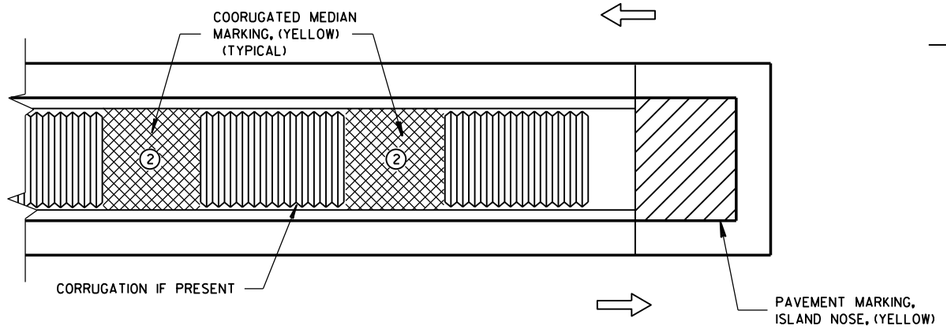
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

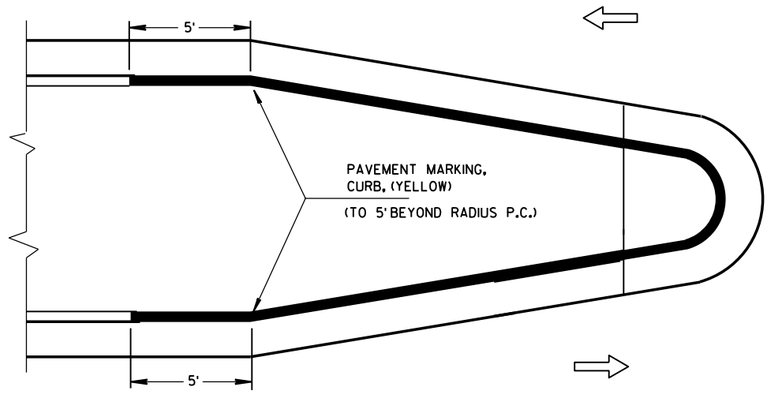
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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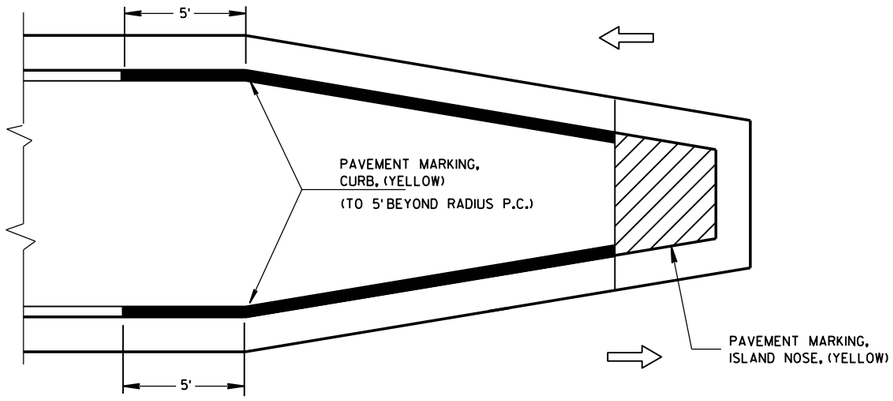
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

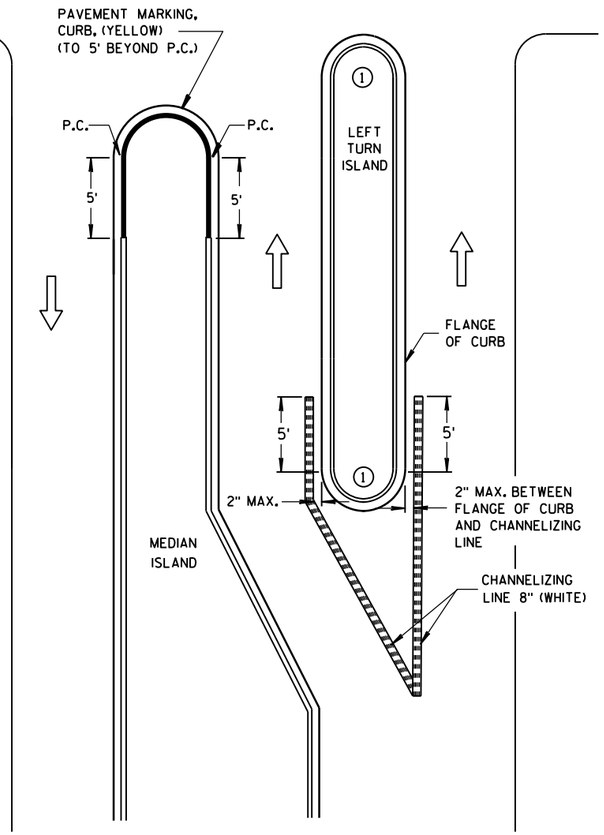


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

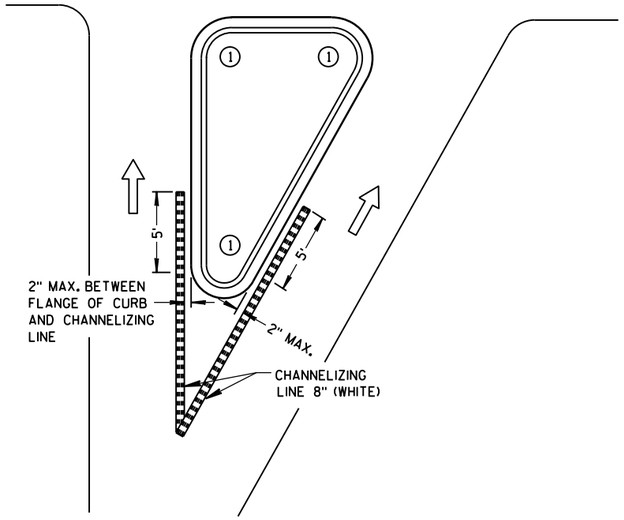


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

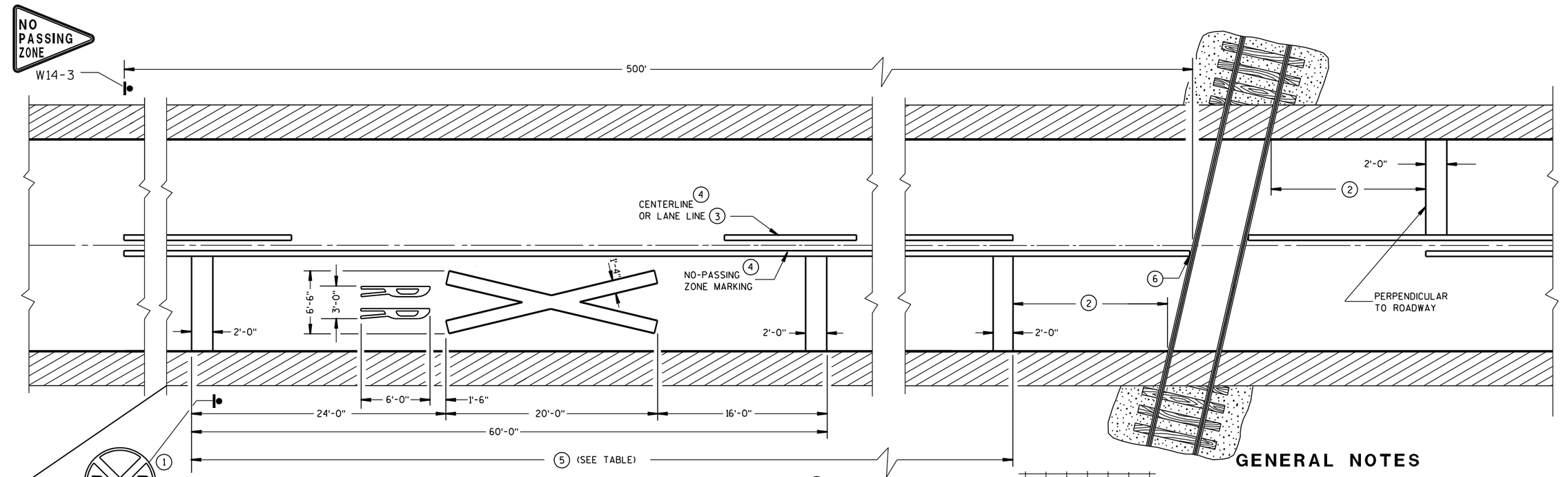
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

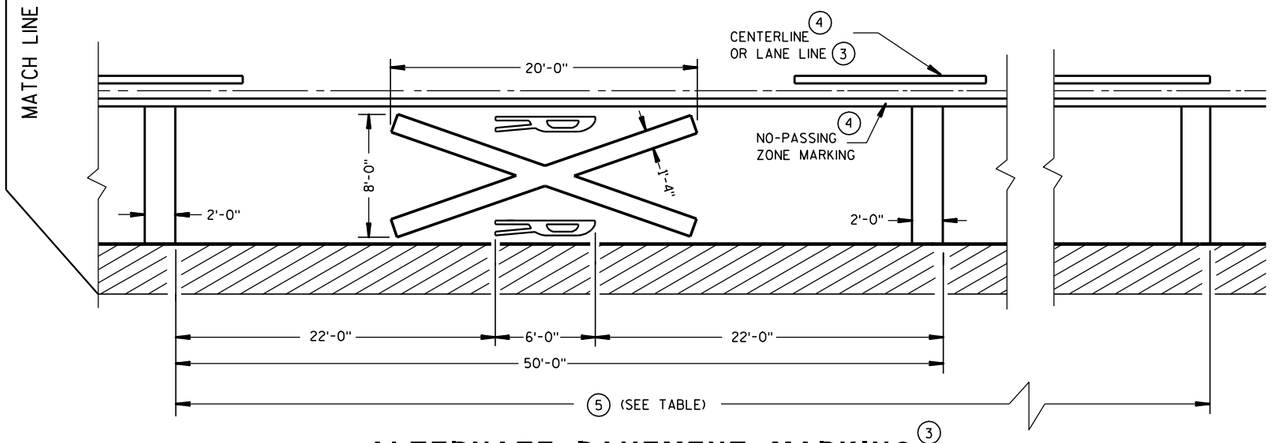
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f



PREFERRED PAVEMENT MARKING (3)

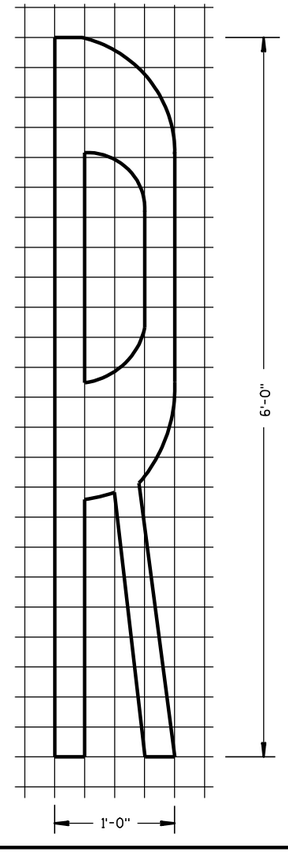


ALTERNATE PAVEMENT MARKING (3)

(5)

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

(1) A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).

(2) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(3) REFLECTIVE WHITE.

(4) REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(5) TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(6) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1-9-2012
DATE

/S/ Thomas N. [illegible]
STATE TRAFFIC ENGINEER

FHWA

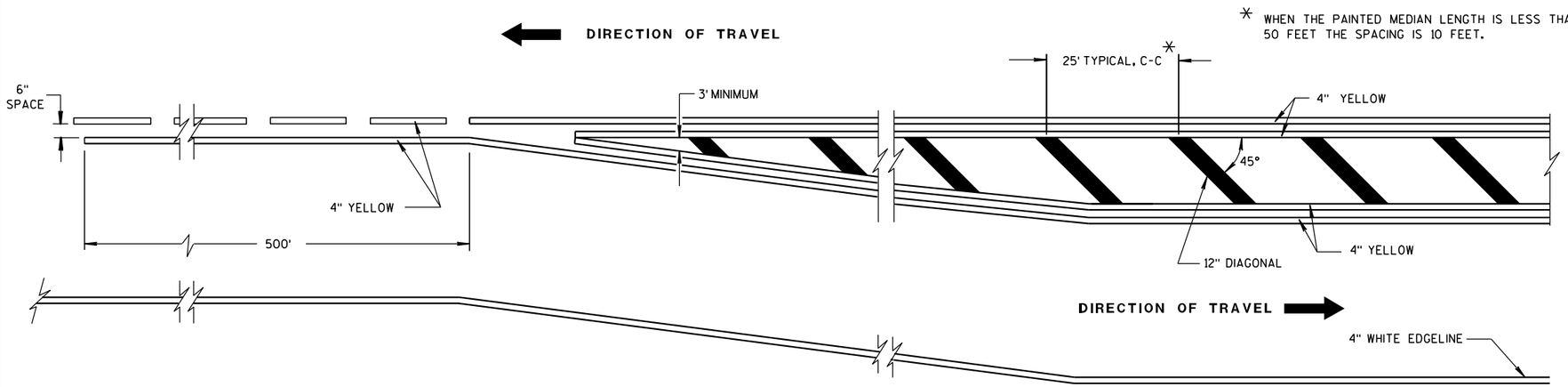
763

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S.D.D. 15 C 9-9a

6

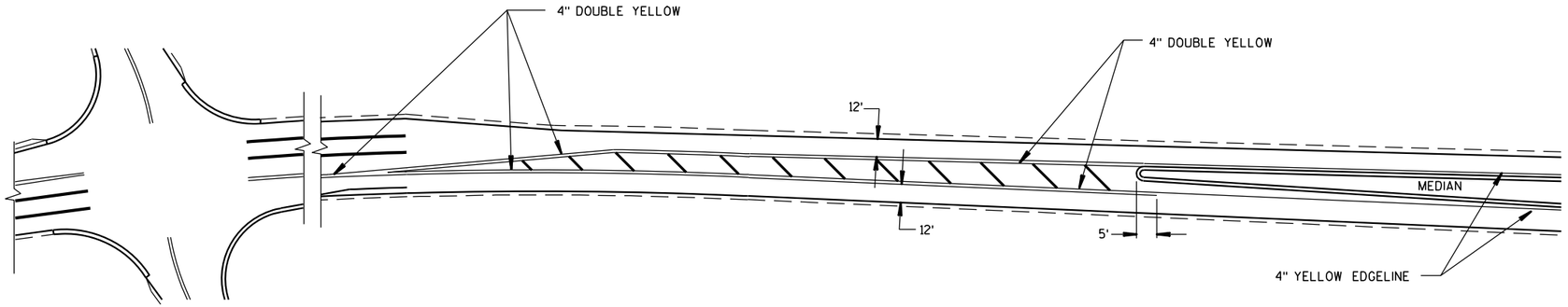
S.D.D. 15 C 9-9a



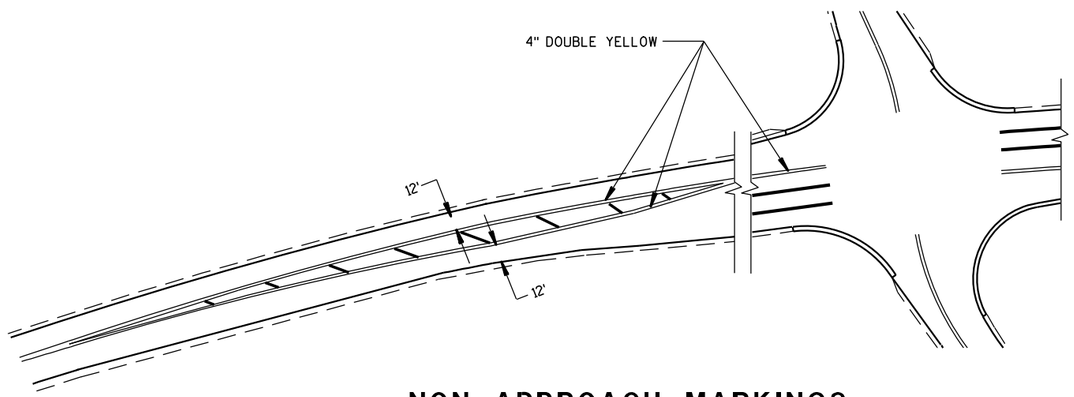
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

6

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S.D.D. 15 C 18-3

S.D.D. 15 C 18-3

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

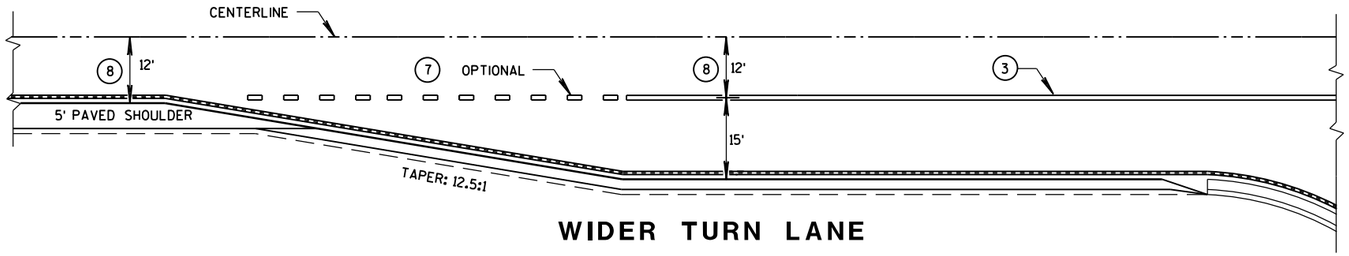
APPROVED

2-5-09 DATE

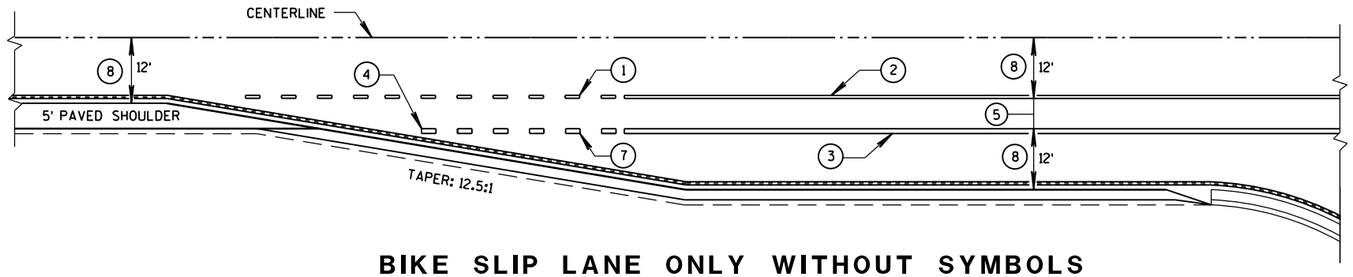
/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

764 IGN

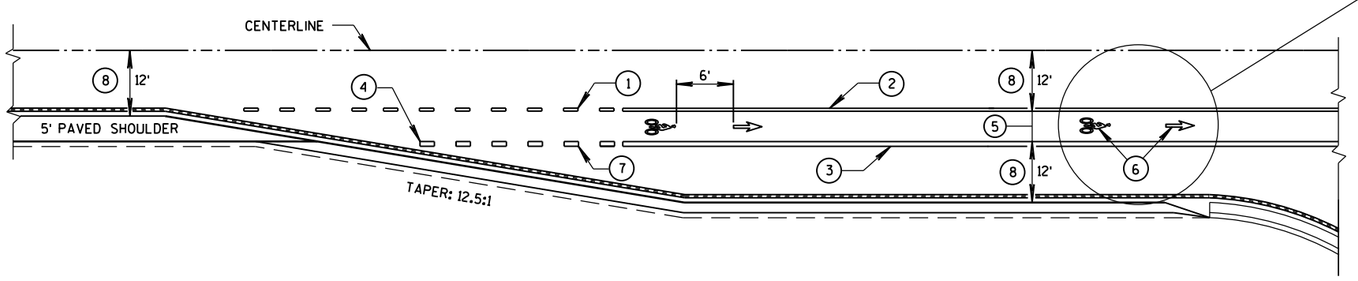
FHWA



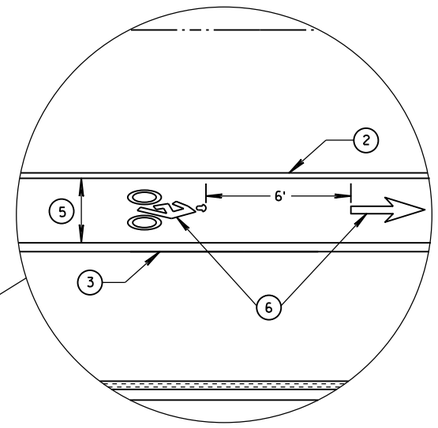
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE. BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

6

S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E 765

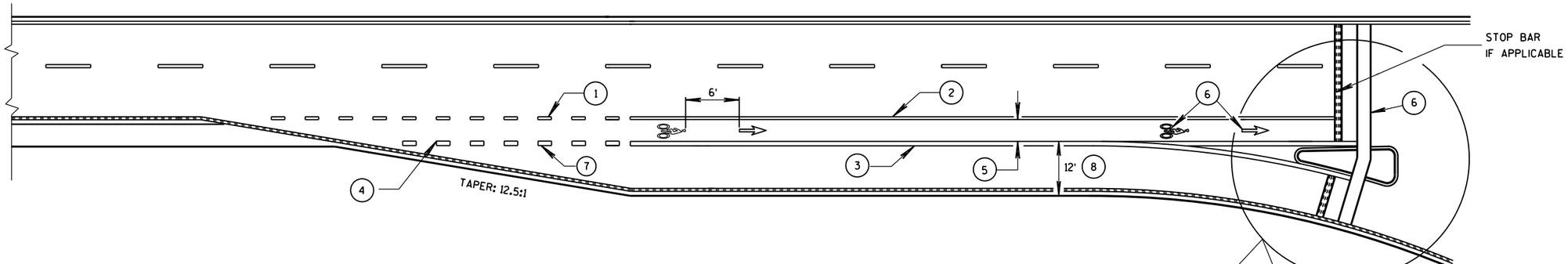
FHWA

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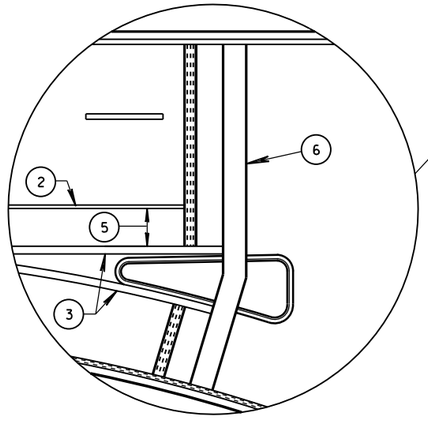
S.D.D. 15 C 29-3a

GENERAL NOTES

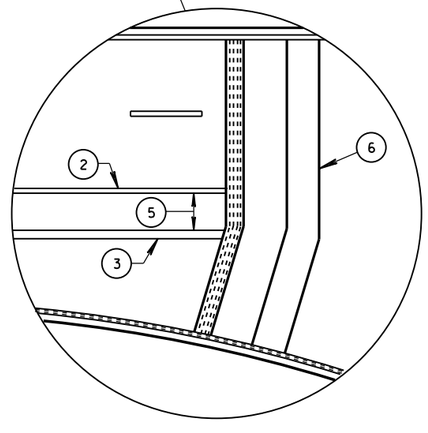
1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. 5' TYPICAL.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE



4 LANE DIVIDED WITH ISLAND



4 LANE DIVIDED WITHOUT ISLAND

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

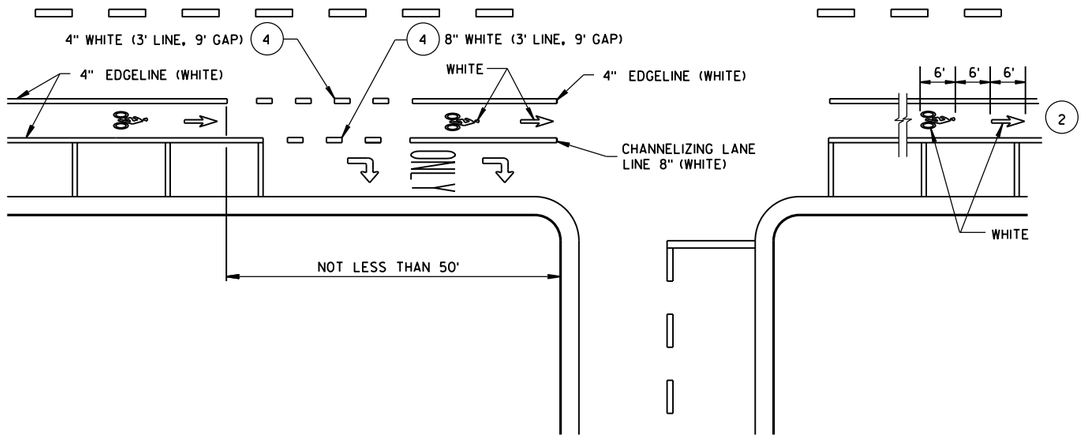
APPROVED
4/30/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
FHWA

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S.D.D. 15 C 29-3b

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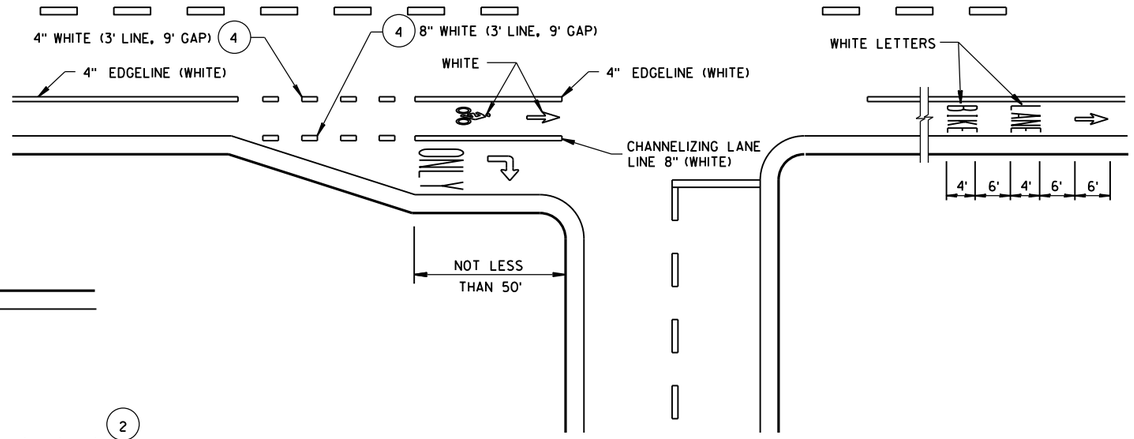
S.D.D. 15 C 29-3b



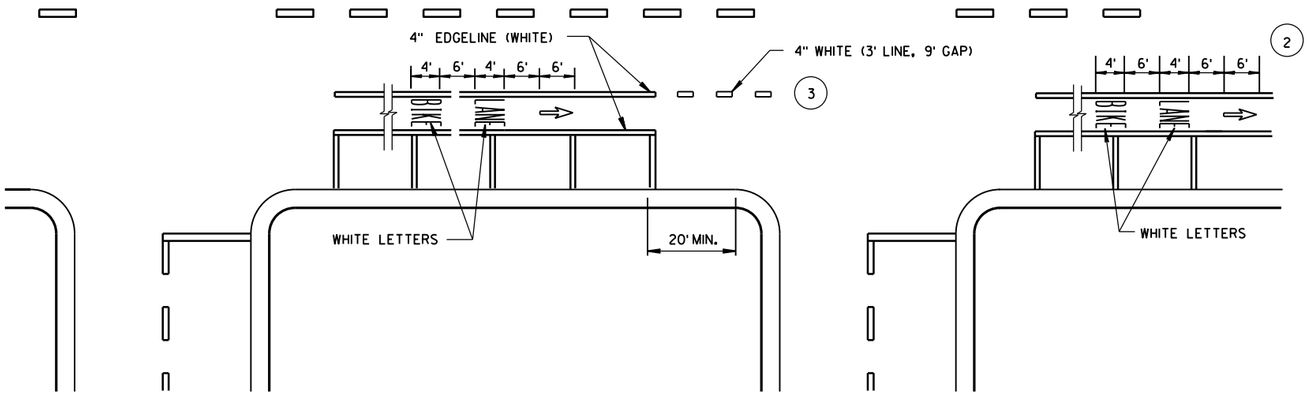
DESIGNATED BICYCLE LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. WHEN SPECIFIED IN THE CONTRACT.



DESIGNATED BICYCLE LANE
NO PARKING, RIGHT TURN LANE



DESIGNATED BICYCLE LANE
WITH PARKING, NO RIGHT TURN LANE

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN 767

FHWA

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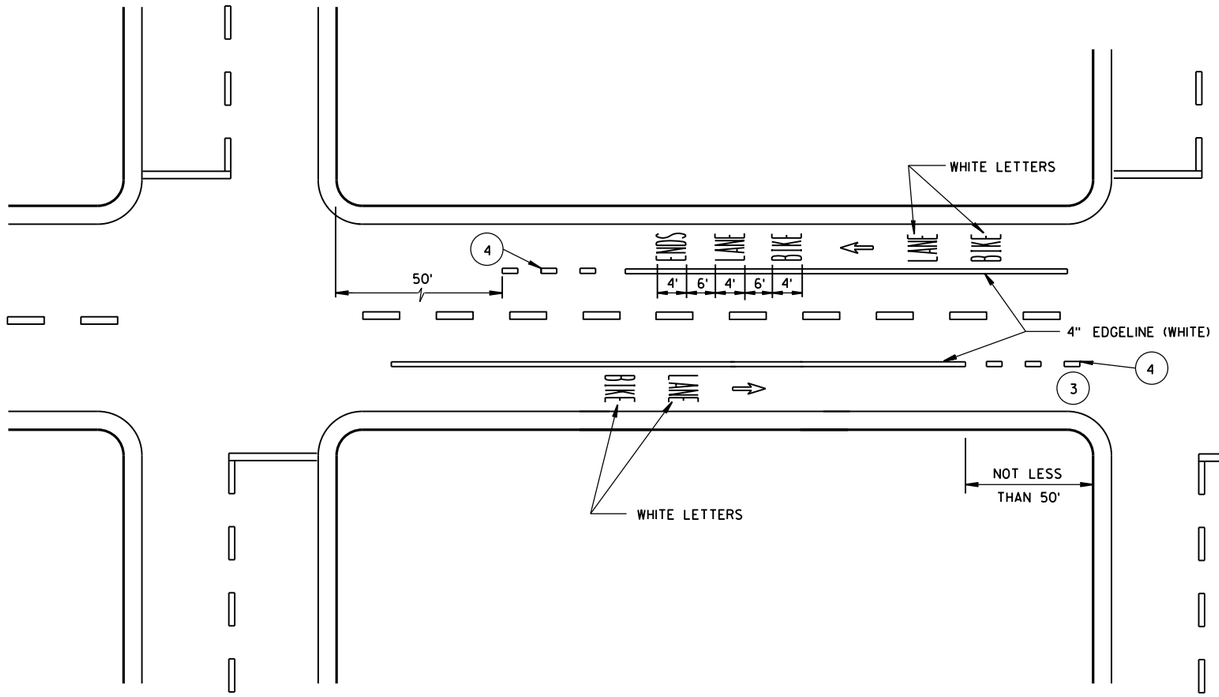
S.D.D. 15 C 29-3c

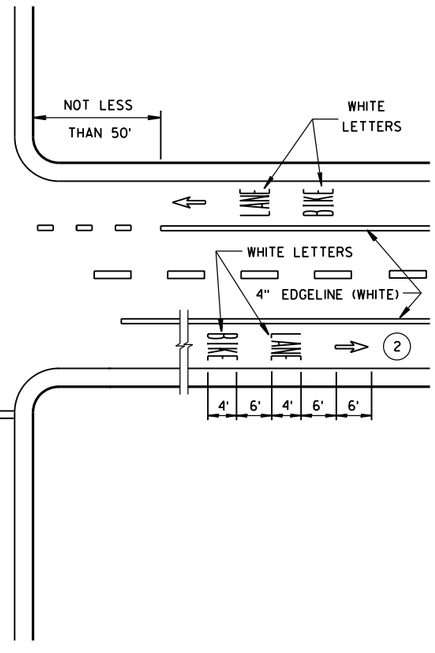
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S.D.D. 15 C 29-3c

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. 3' LINE, 9' GAP - 4" WIDE, WHITE.





DESIGNATED BICYCLE LANE
NO PARKING

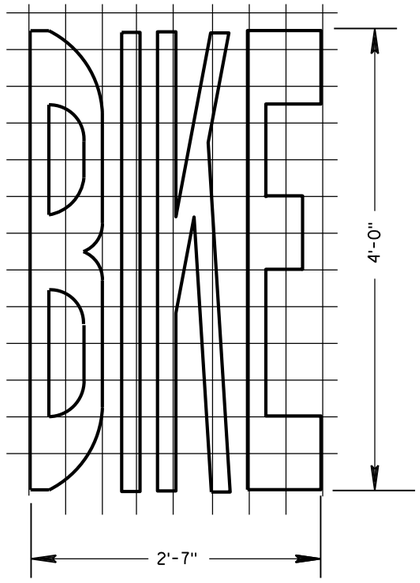
URBAN BICYCLE LANE MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4/30/2013 DATE FHWA	/S/ Travis Feltes STATE TRAFFIC EN 768

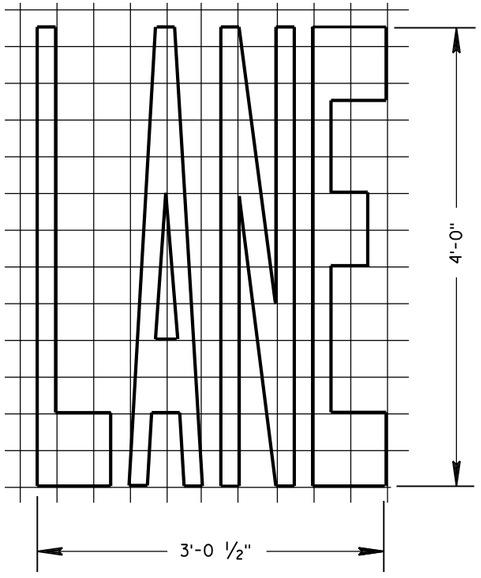
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S.D.D. 15 C 29-3d

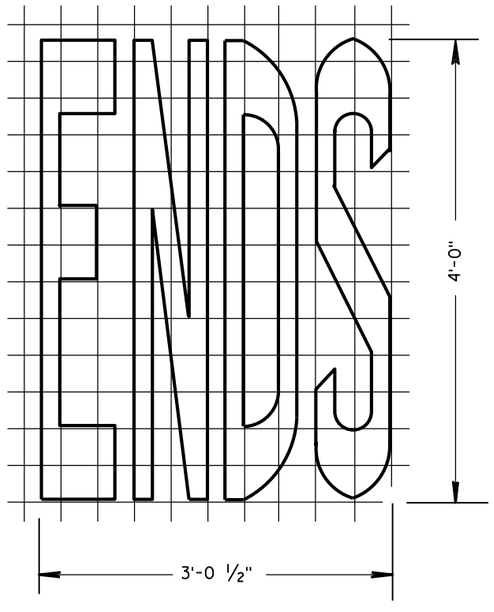
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

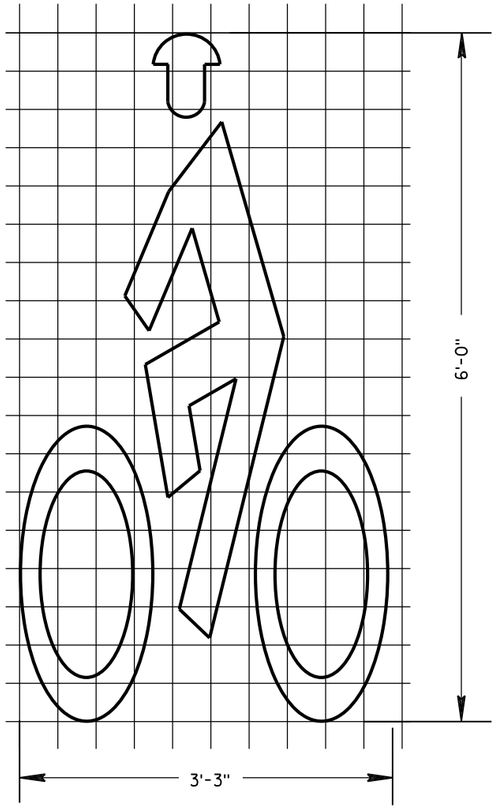
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



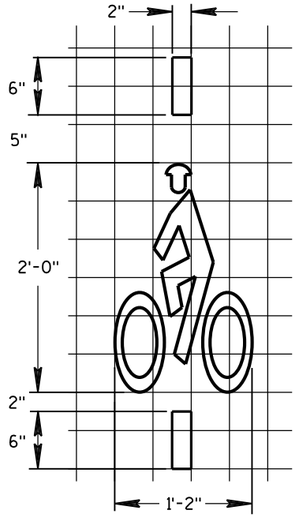




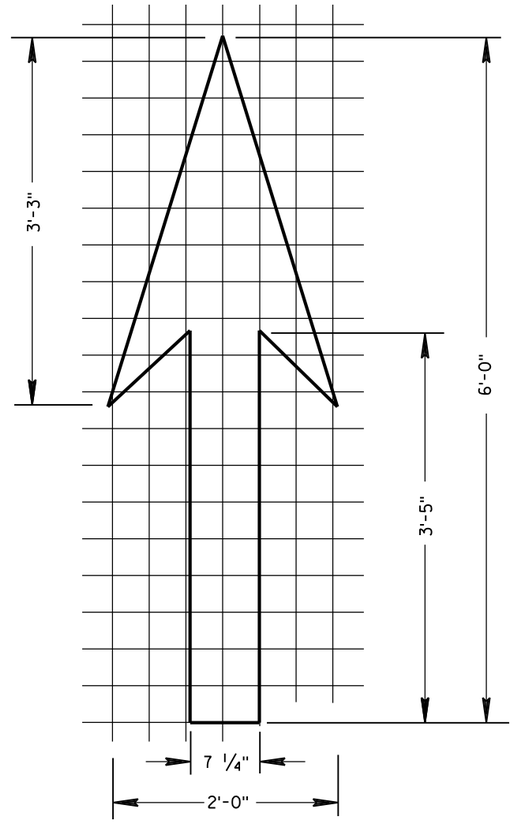
BIKE LANE WORDS



BIKE LANE SYMBOL



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE ARROW

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN

FHWA

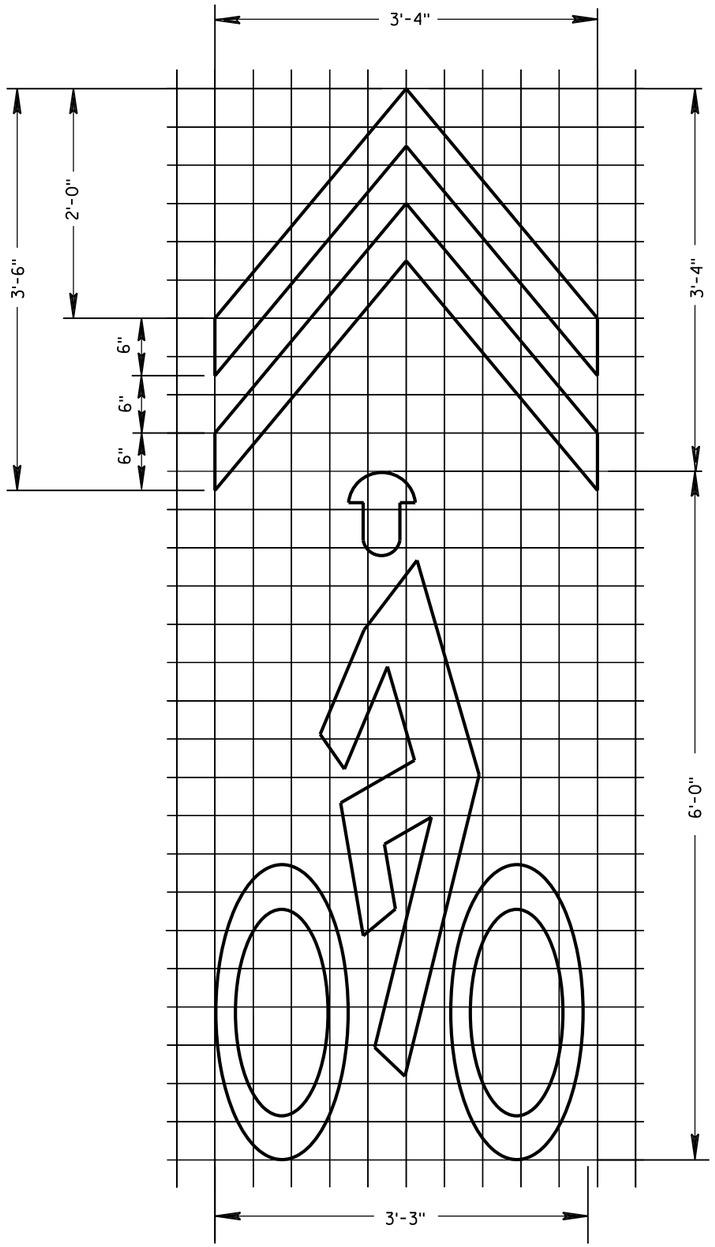
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S.D.D. 15 C 29-3e

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S.D.D. 15 C 29-3e



BIKE SYMBOL FOR SHARED LANE

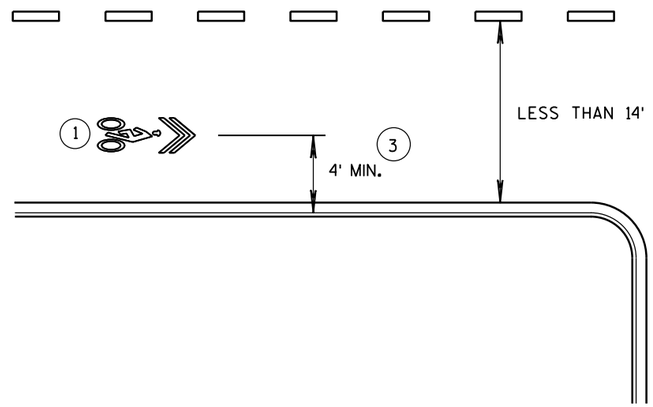
GENERAL NOTES

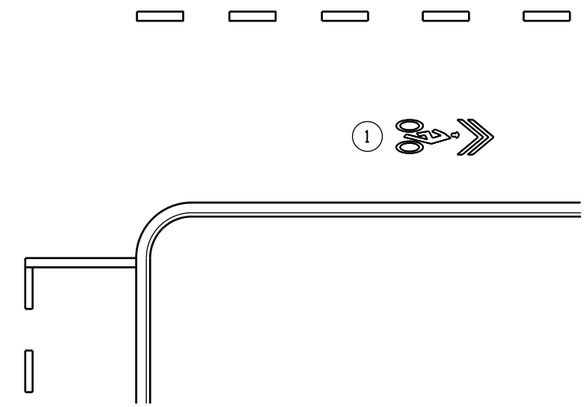
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

(1) SPACED A MAXIMUM OF 250 FEET.

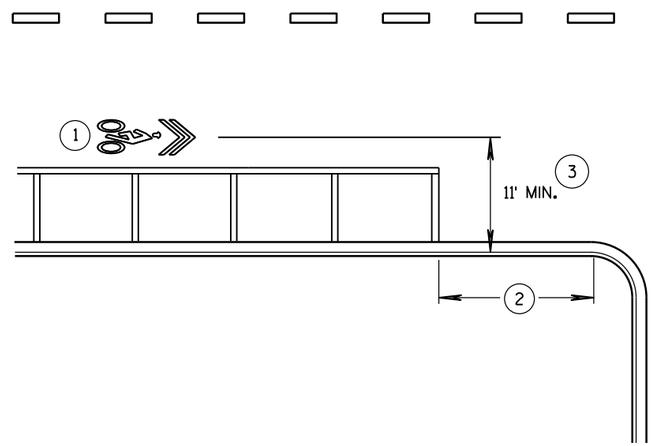
(2) 20 FOOT MINIMUM FROM CURB RADIUS.

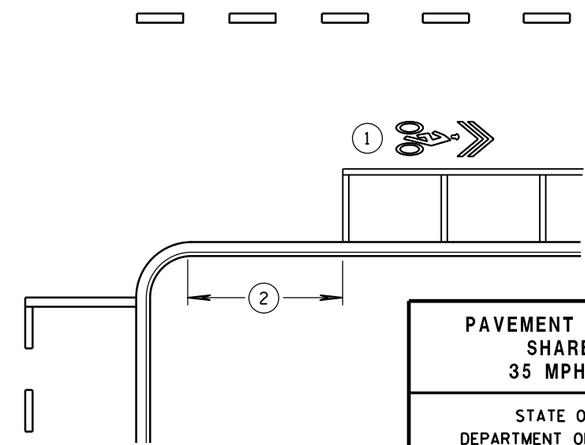
(3) OR TO EDGE OF PAVEMENT WITHOUT CURB.





WITHOUT PARKING





WITH PARKING

PAVEMENT MARKING FOR
SHARED LANE
35 MPH OR LESS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN 770

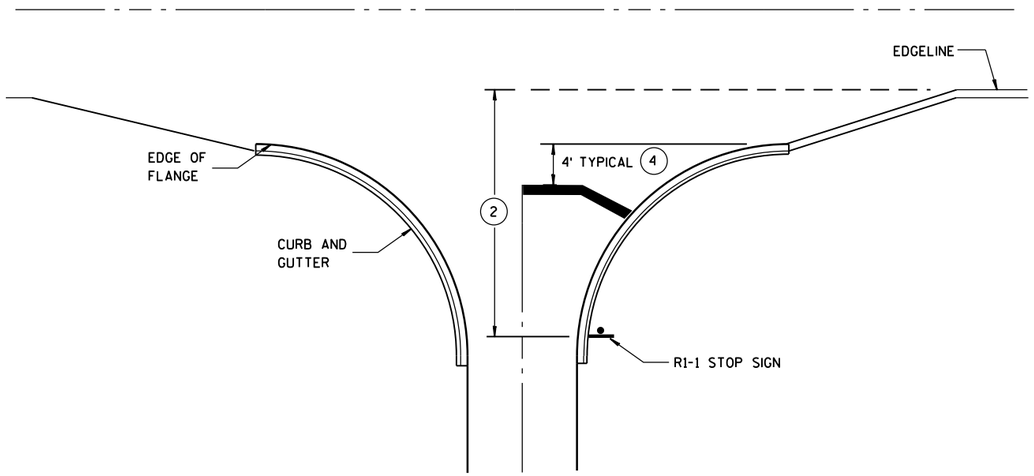
FHWA

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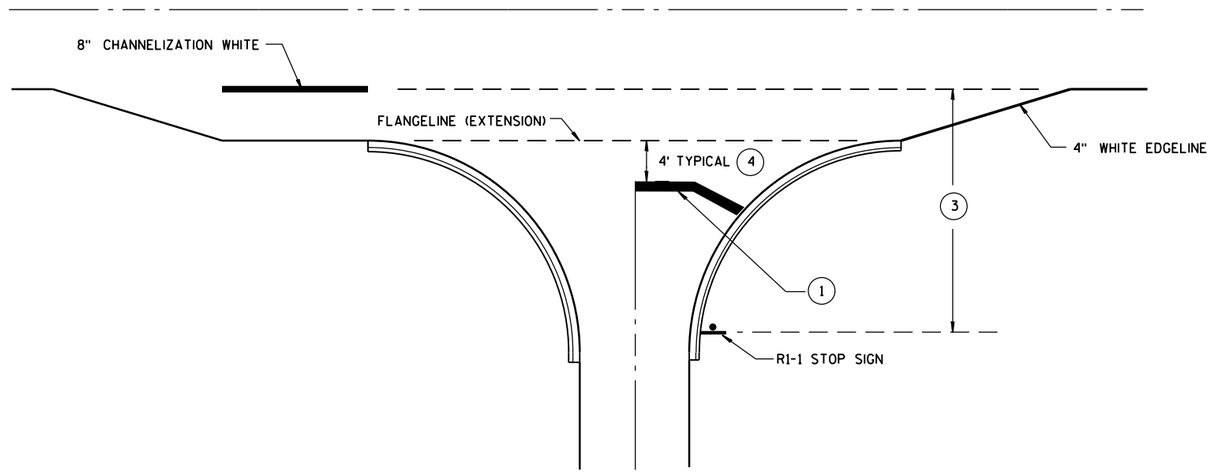
S.D.D. 15 C 29-3f

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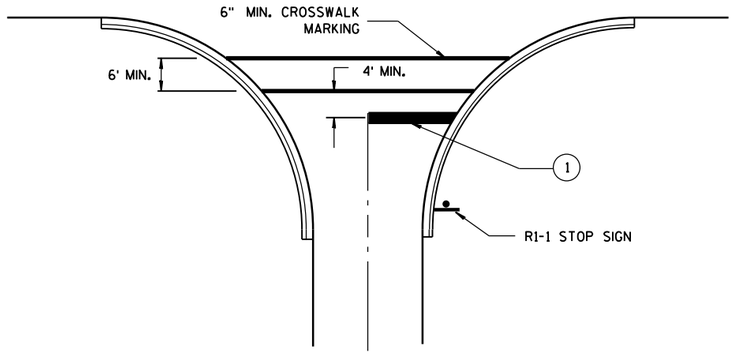
S.D.D. 15 C 29-3f



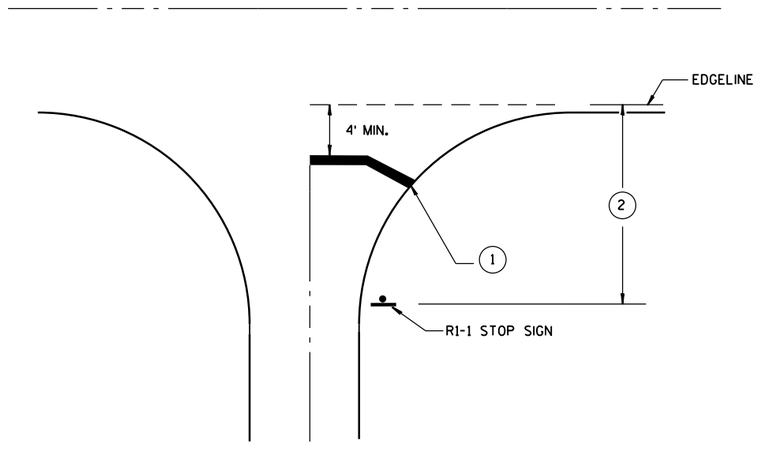
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

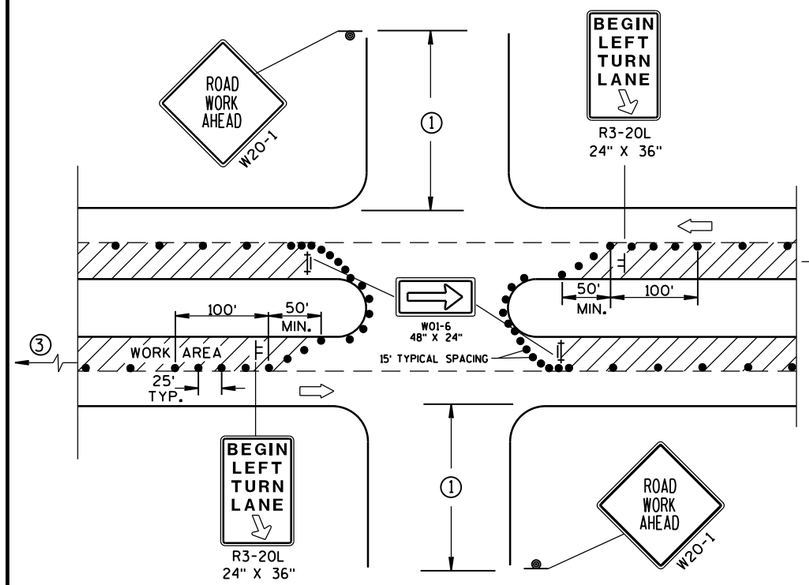
/S/ Travis Feltes
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771

FHWA

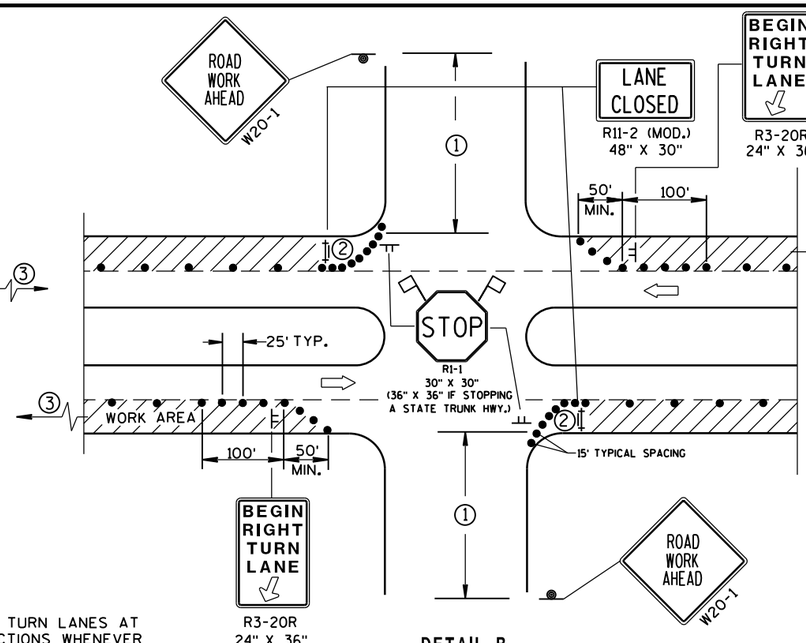
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S.D.D. 15 C 33-1



DETAIL A

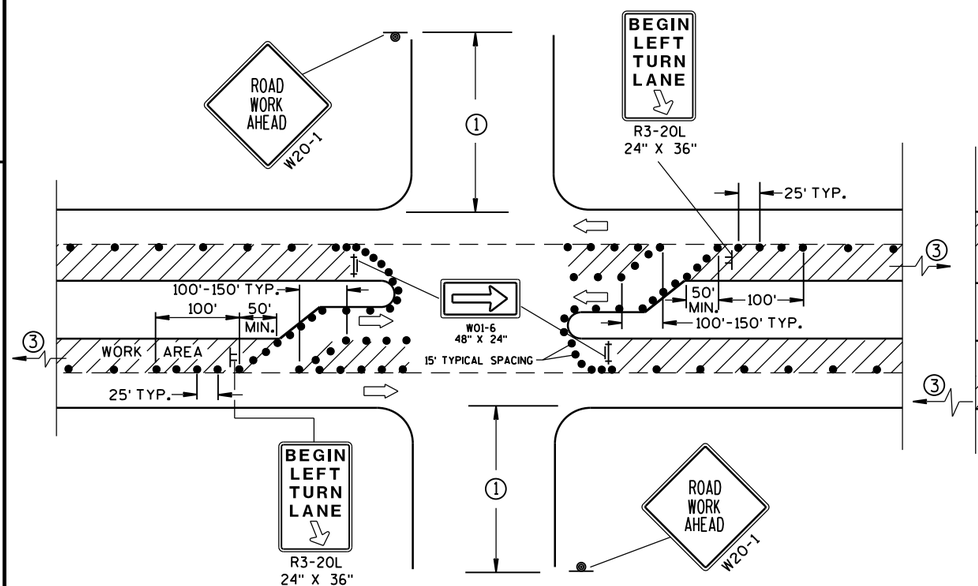
FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING



DETAIL B

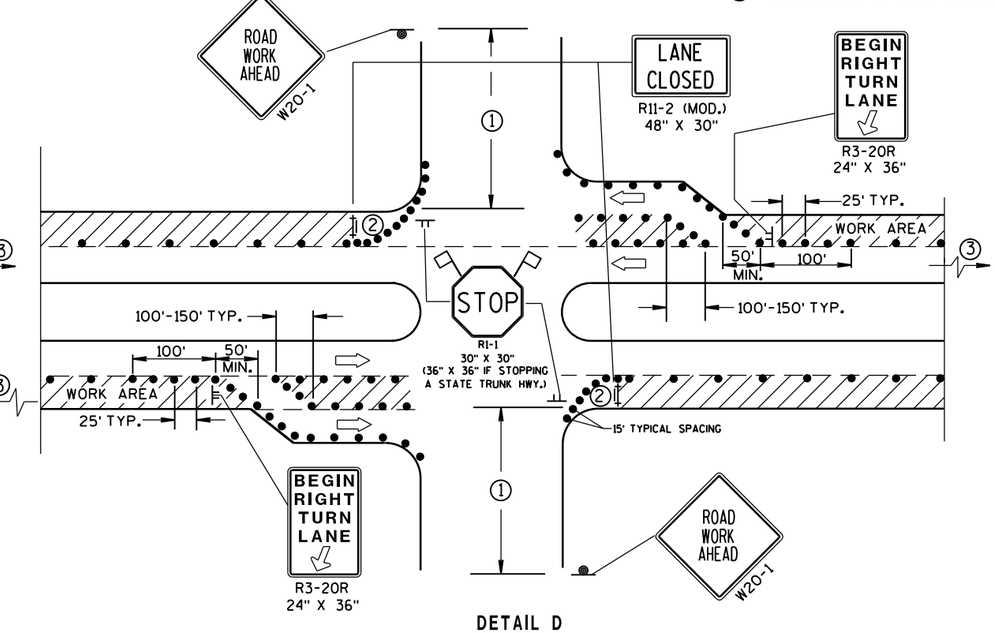
FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 21-3

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

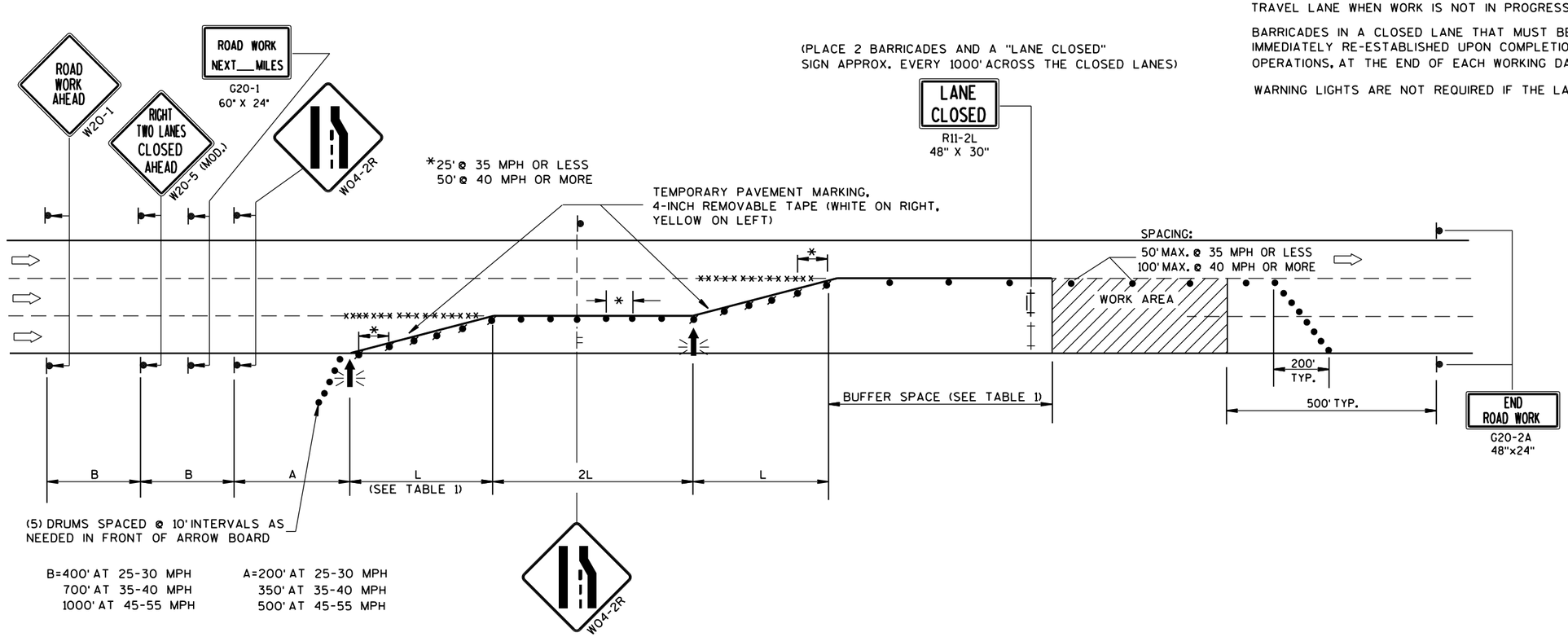
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO LOCATE THE ARROWBOARD AS SHOWN, PLACE THE ARROWBOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



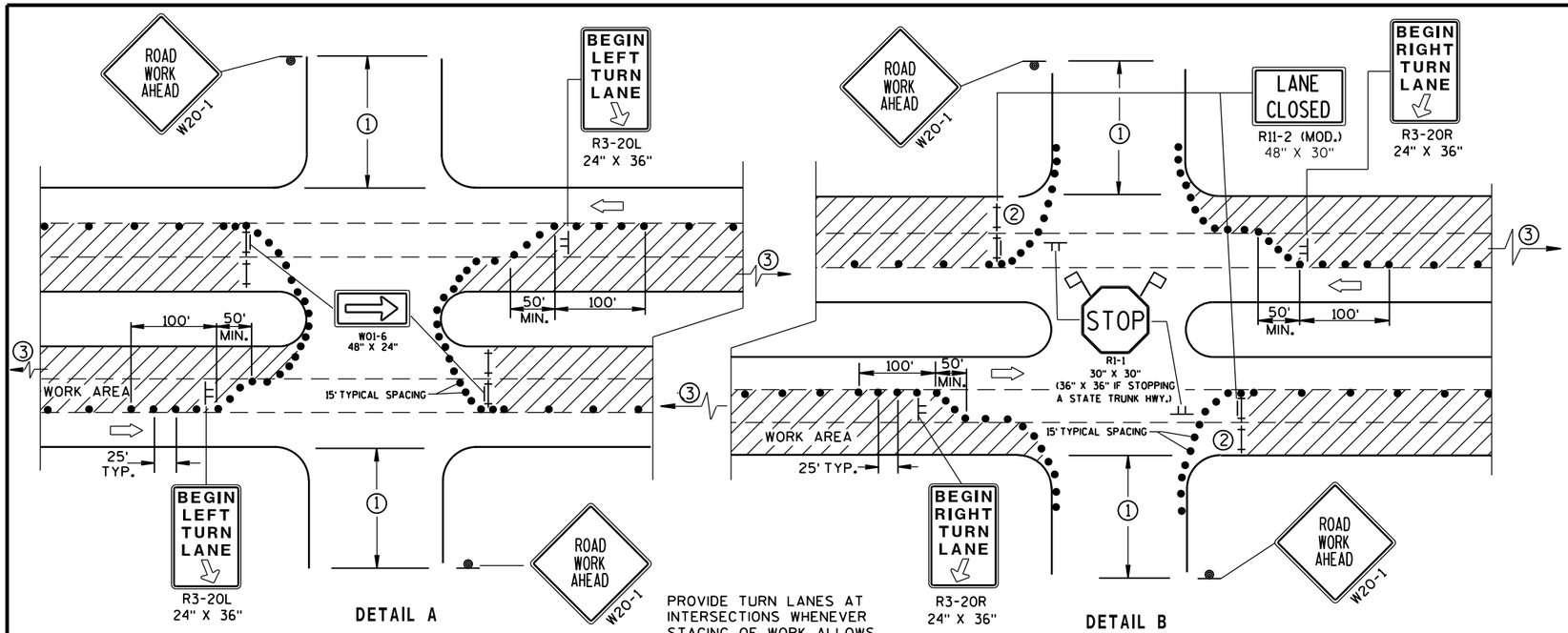
B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

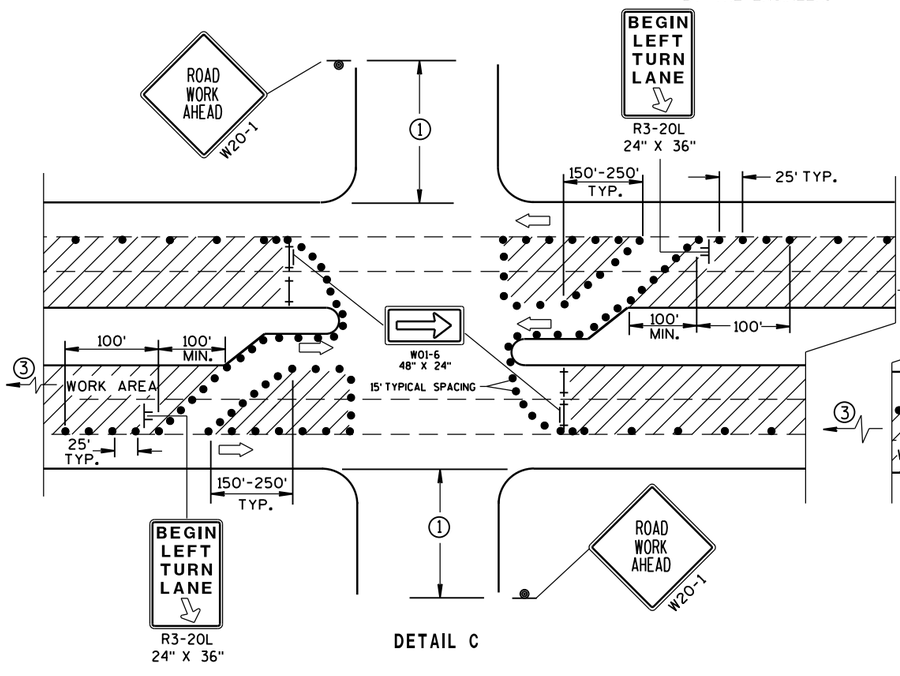
APPROVED
8/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
773
SIGN
FHWA

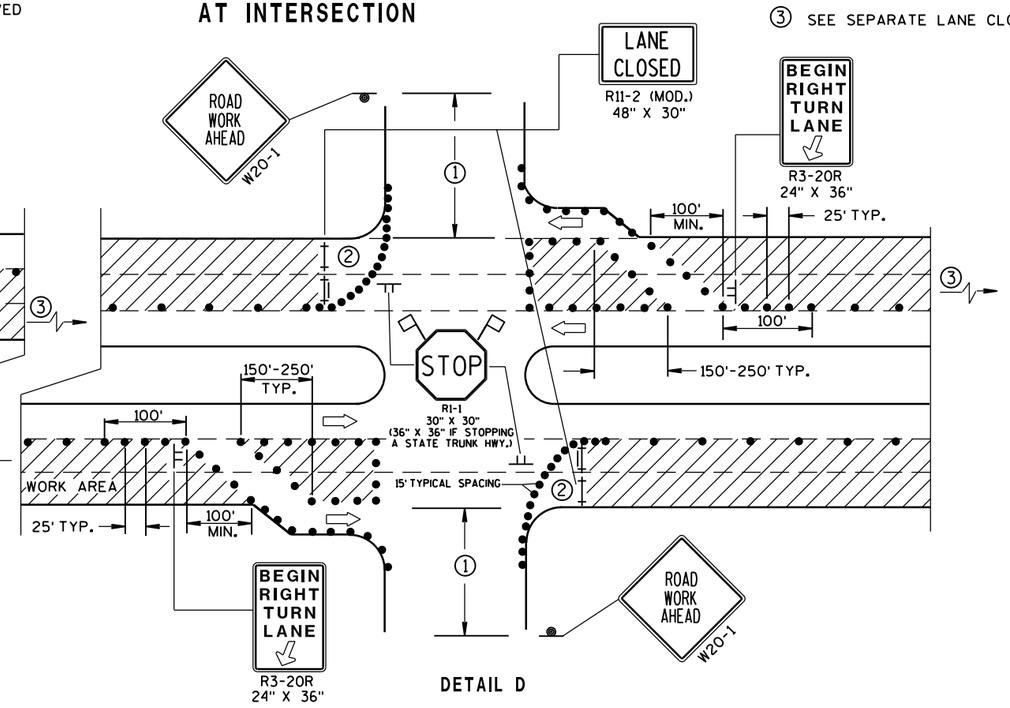


FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.





FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)

FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500 FEET TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350 FEET IF 35-40 MPH.
200 FEET IF 25-30 MPH.

② ALSO USE BARRICADES AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 23-3

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

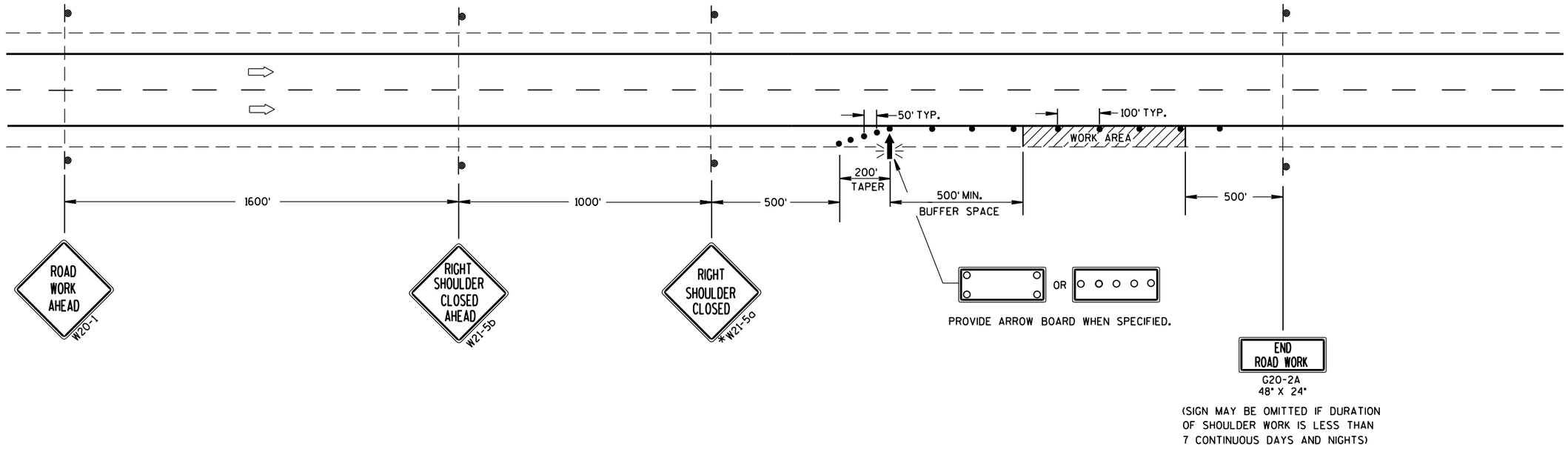
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

775

6

S.D.D. 15 D 27-2

6

S.D.D. 15 D 27-2

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

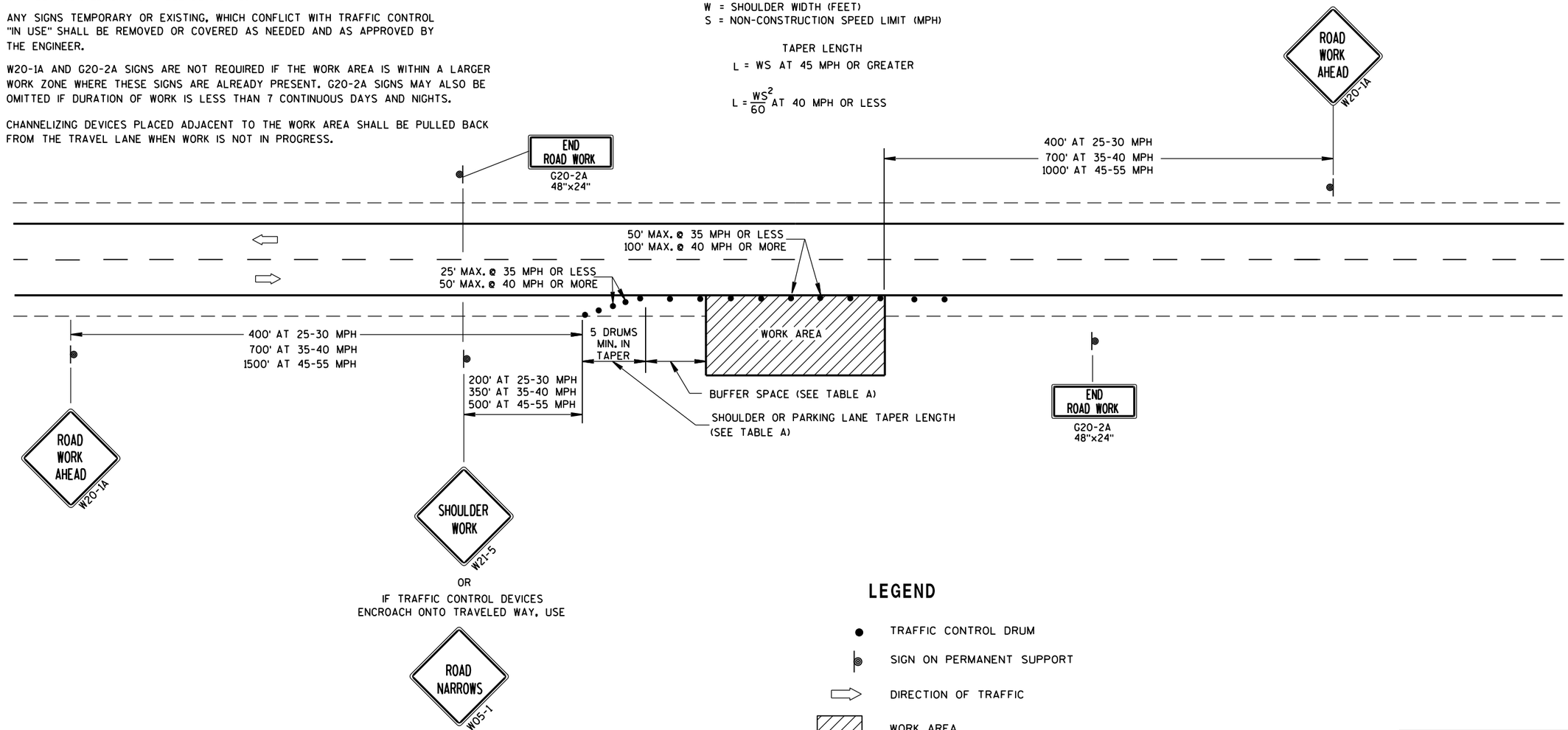
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

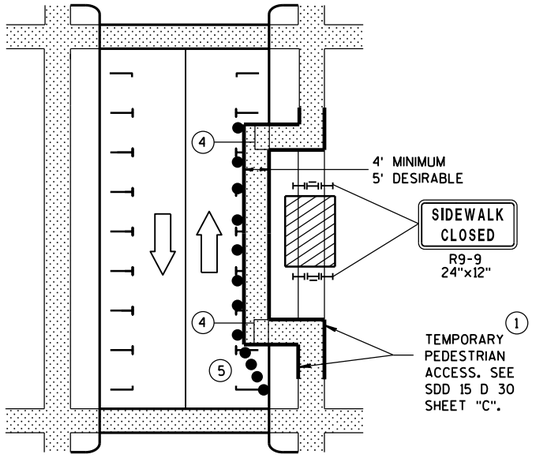
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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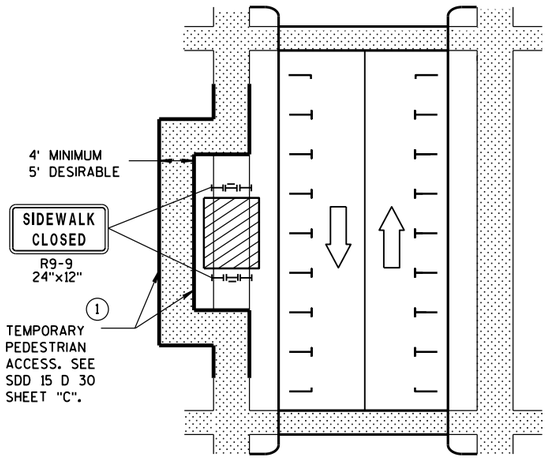
S.D.D. 15 D 28-3

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

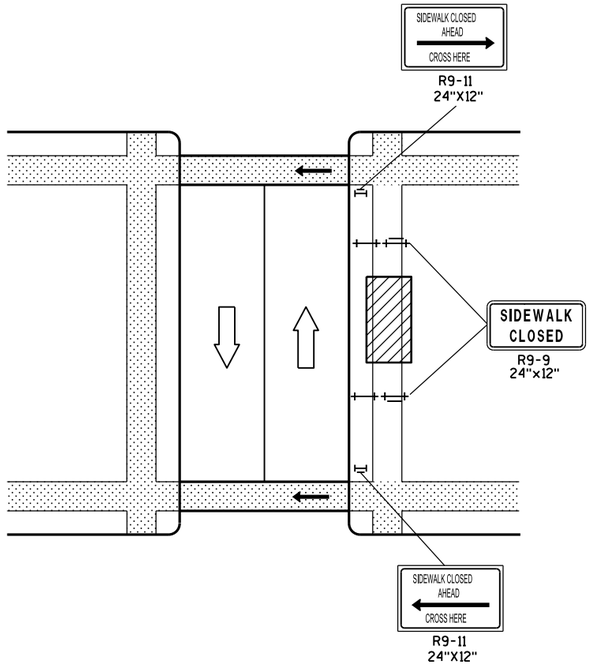


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

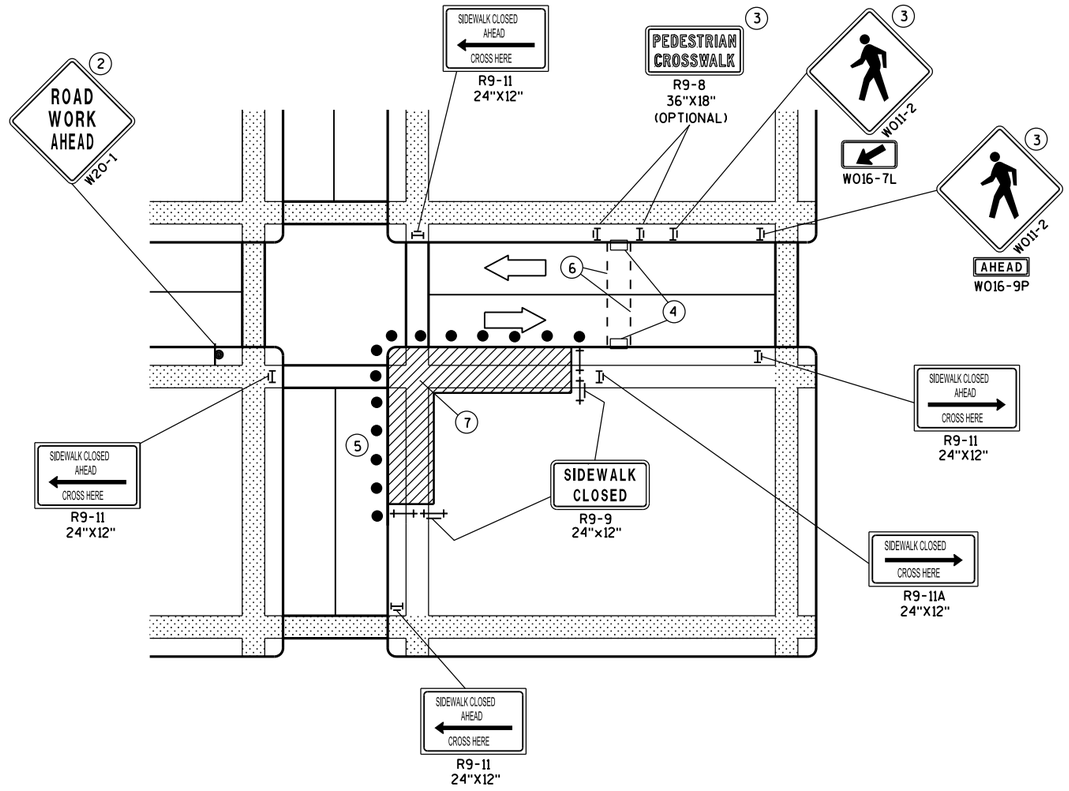
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

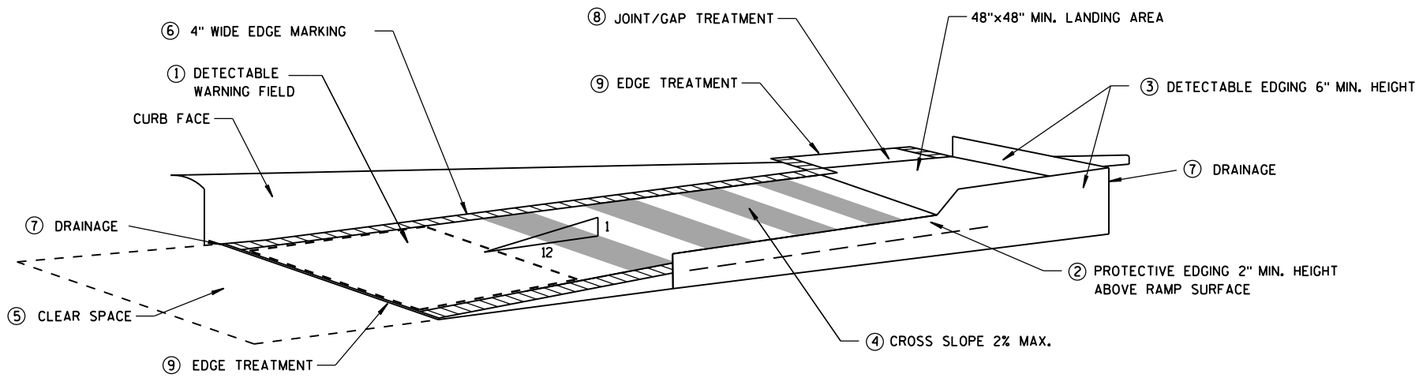
(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 777



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

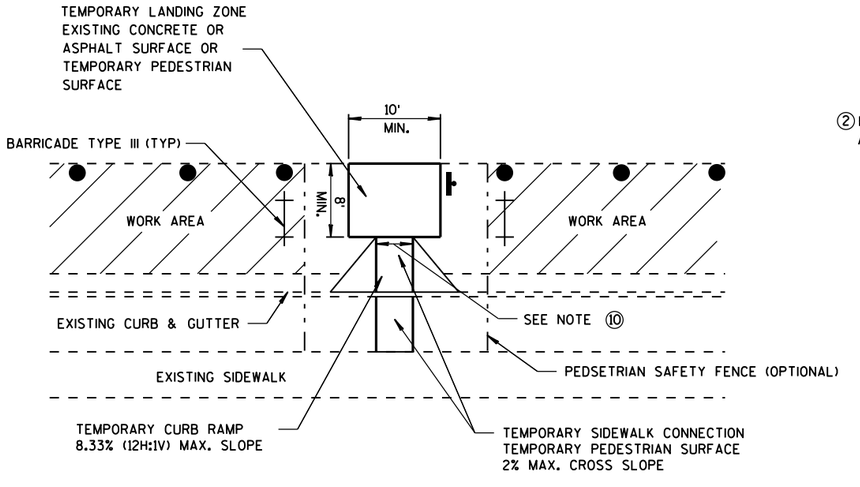
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

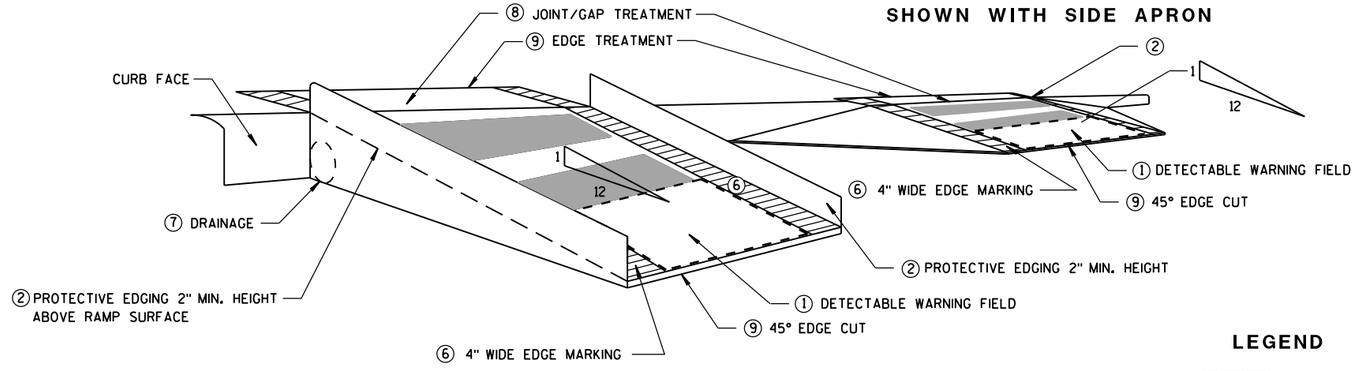
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

SHOWN WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2015 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

778 SIGN

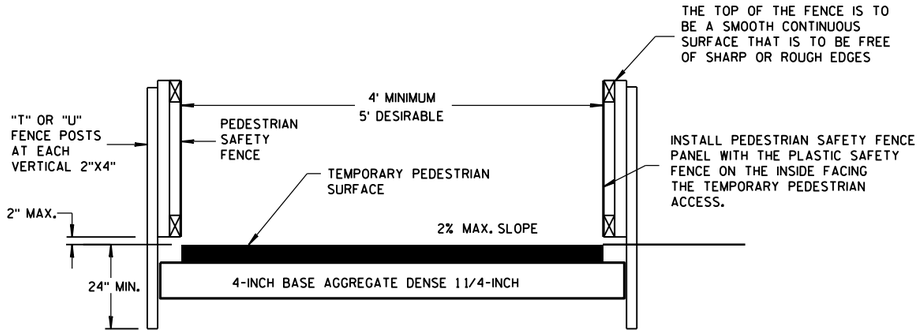
FHWA

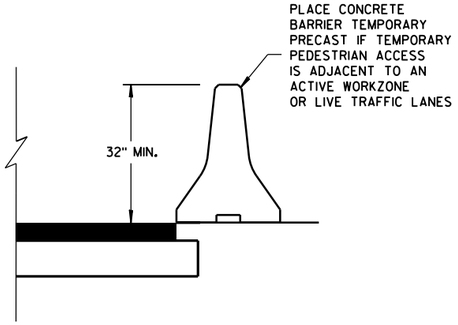
6

S.D.D. 15 D 30-2b

6

S.D.D. 15 D 30-2b

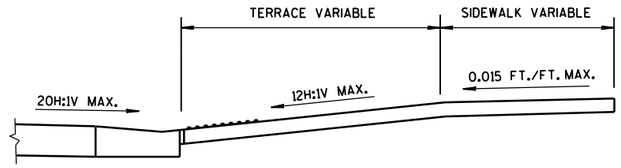




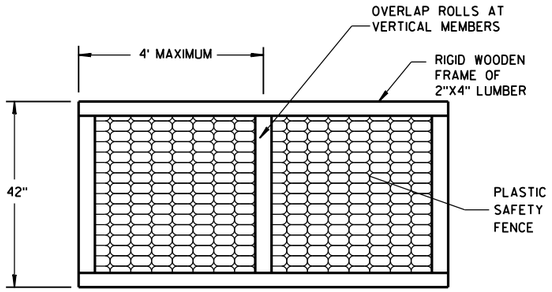
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

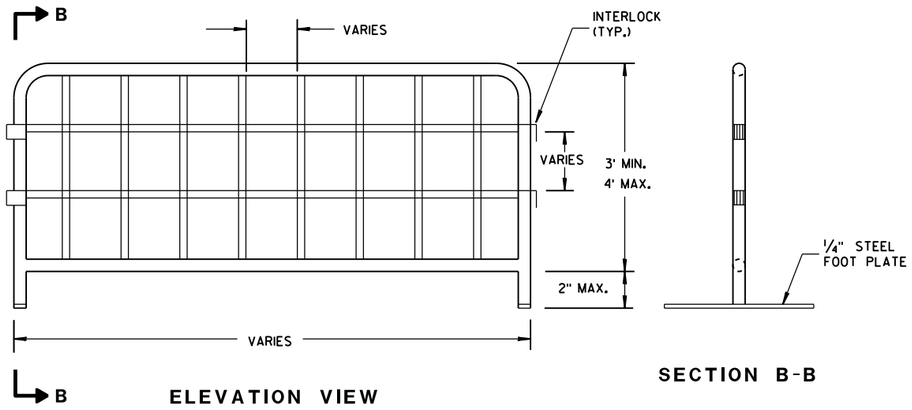
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



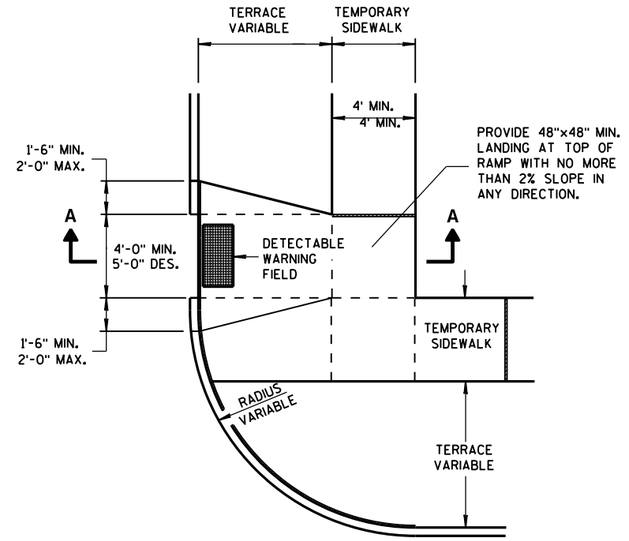
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

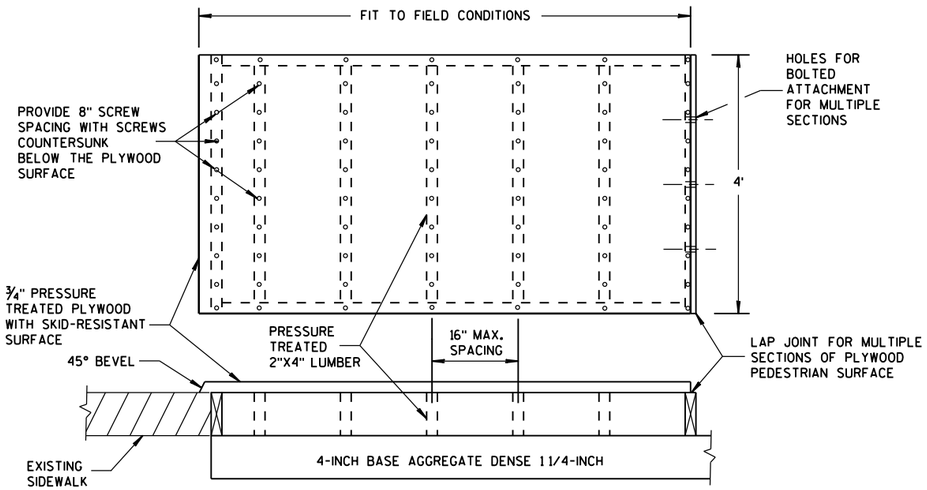
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



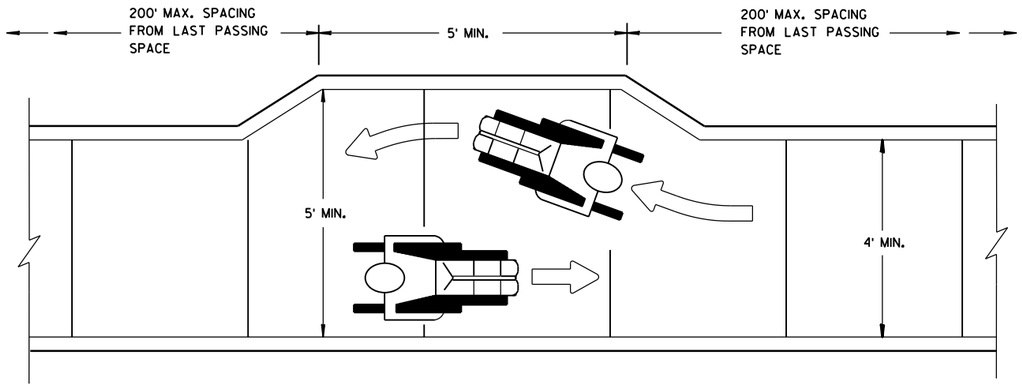
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

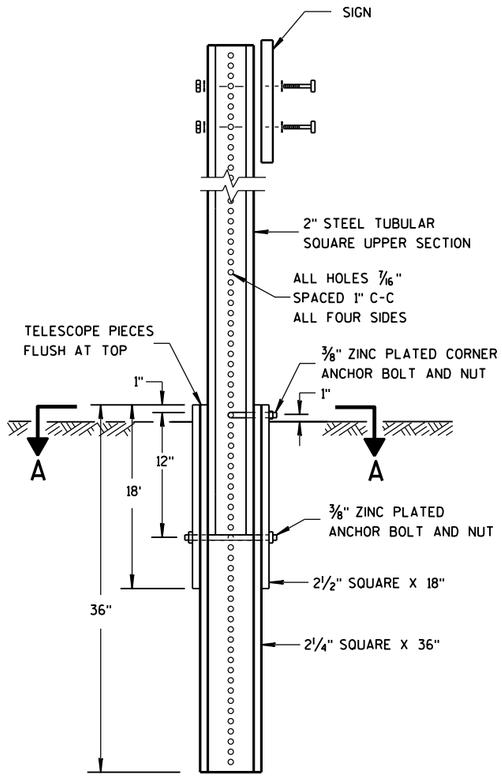
APPROVED
March 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER 779 — SIGN
FHWA

6

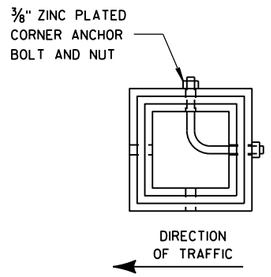
S.D.D. 15 D 30-2c

6

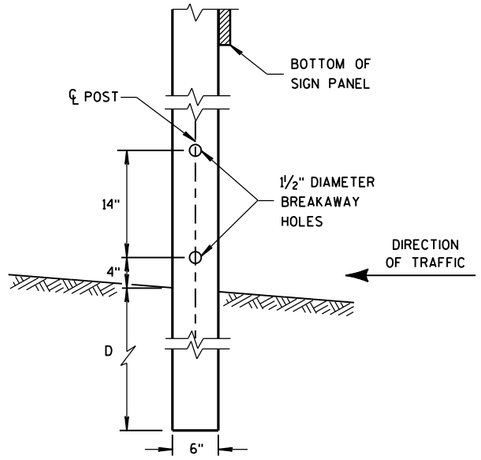
S.D.D. 15 D 30-2c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



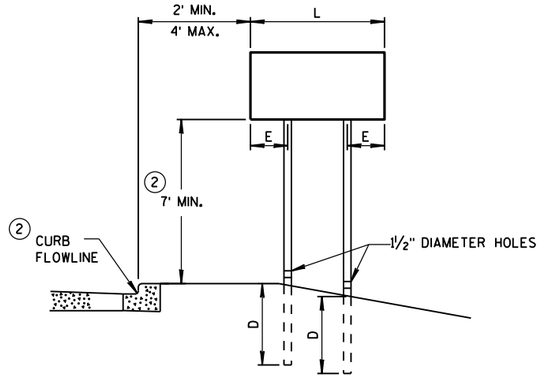
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

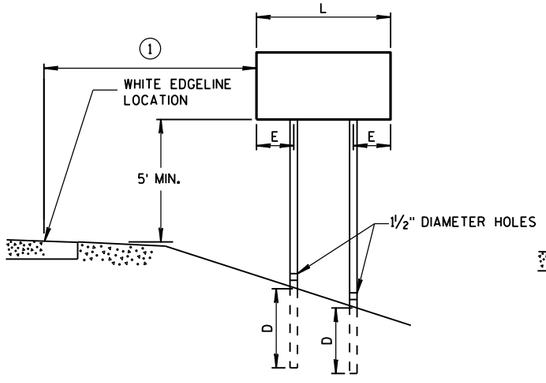
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

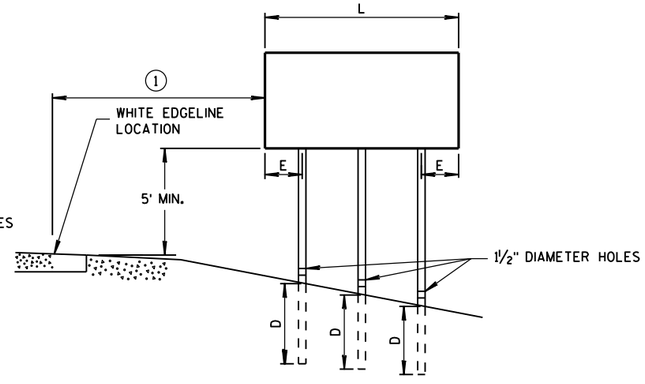
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

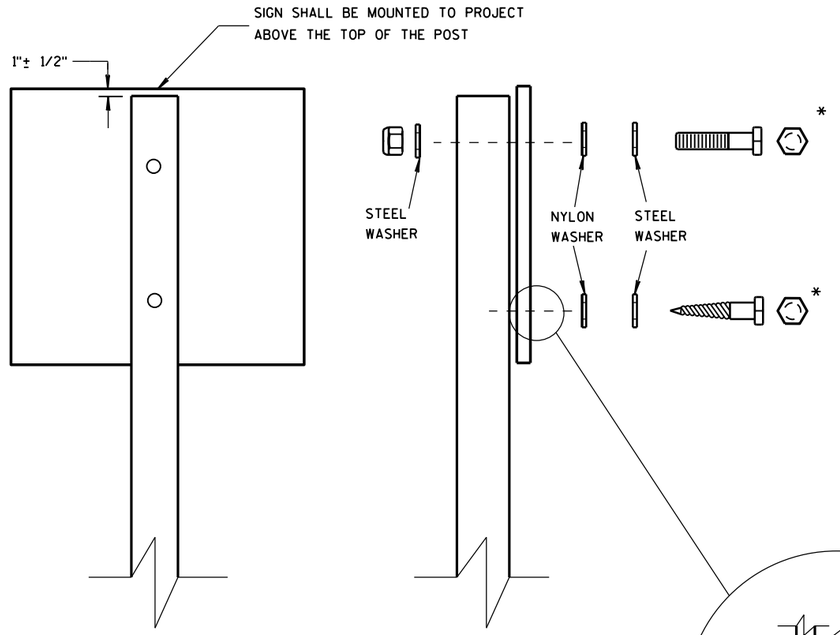
SEE NOTE (3)

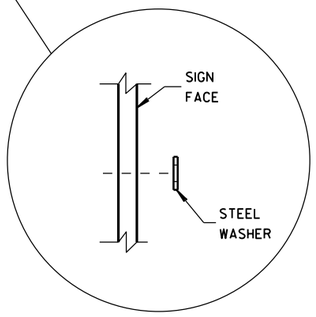
TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

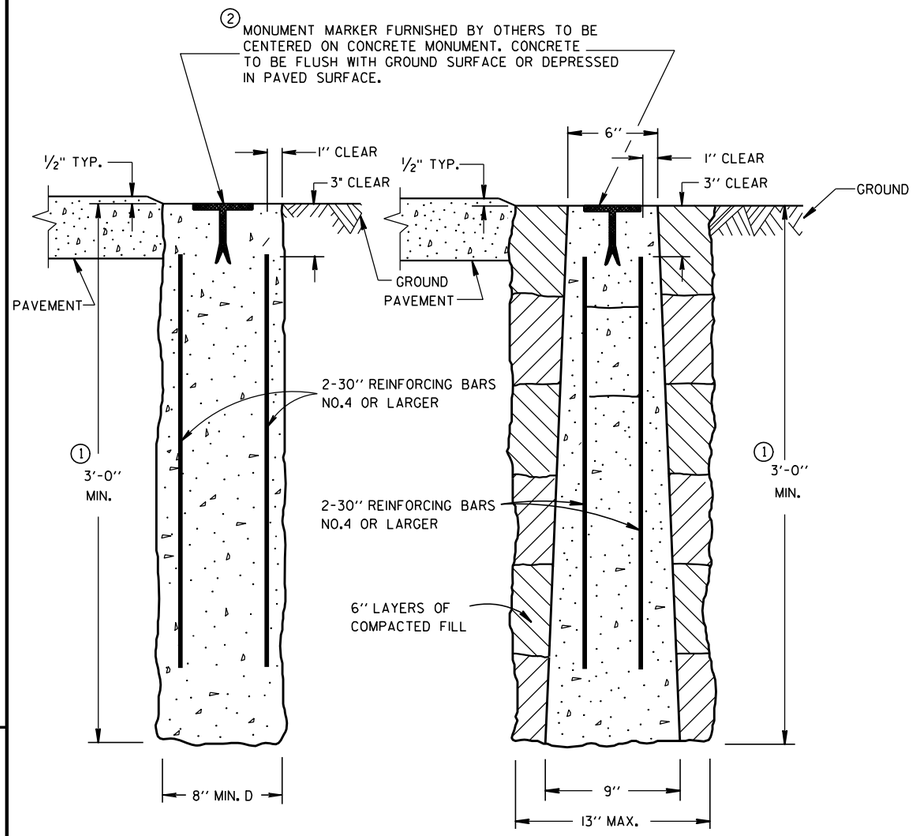
S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

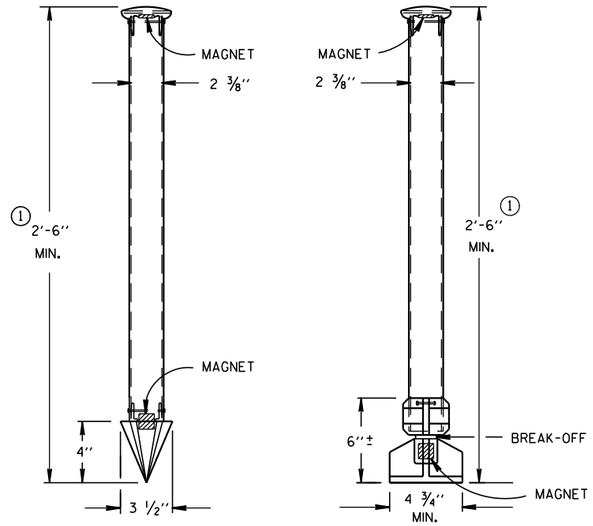
SIGN



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

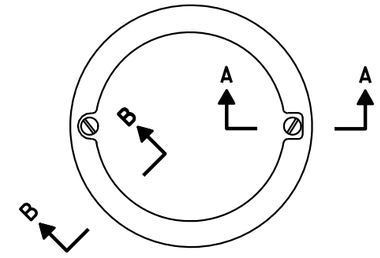
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

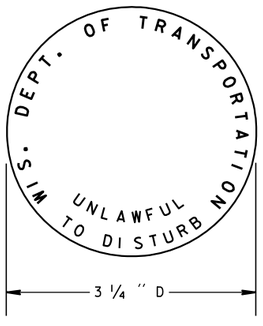
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

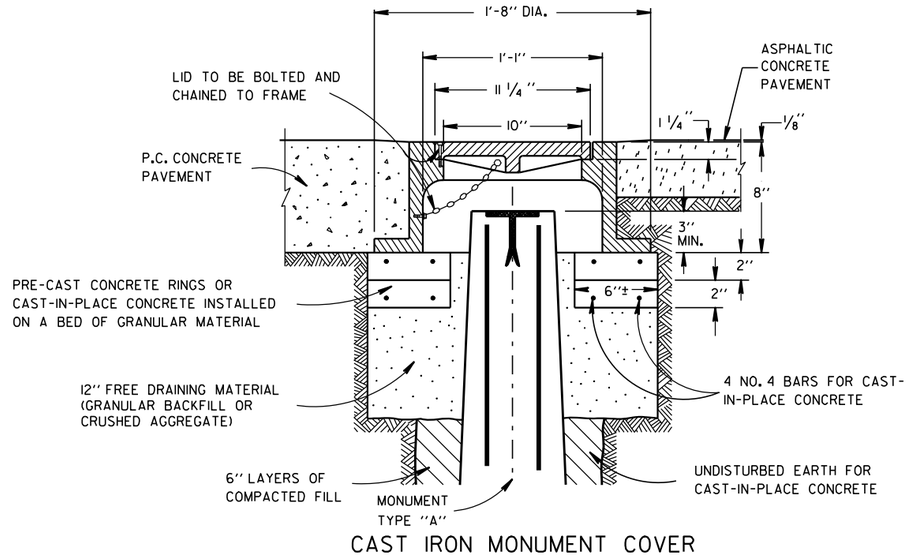
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

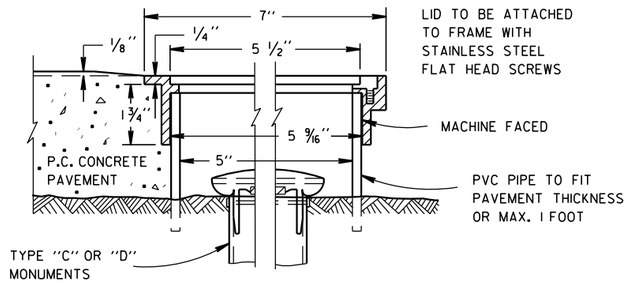


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

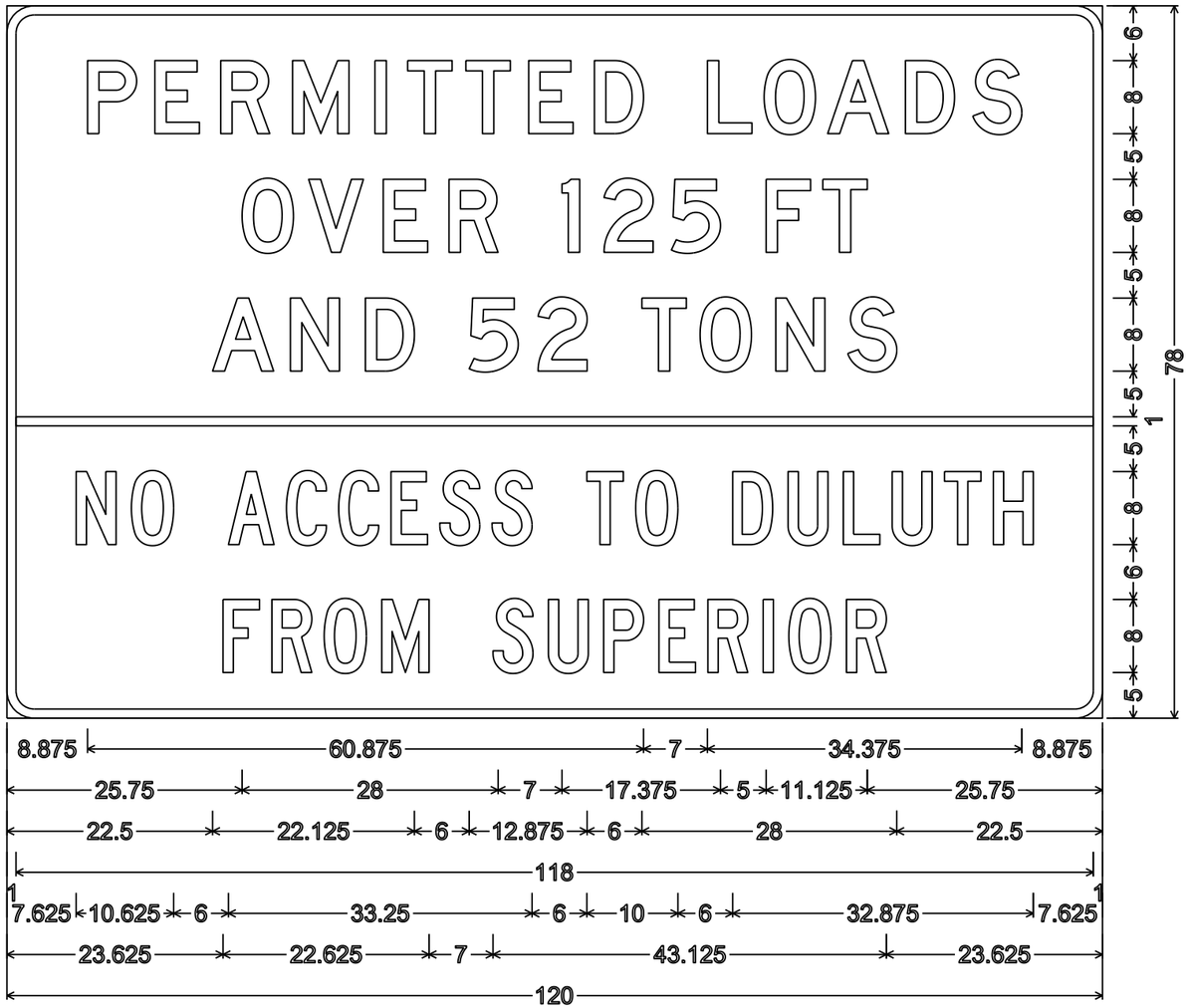
APPROVED
9/22/1999 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 16 A 1-6

6

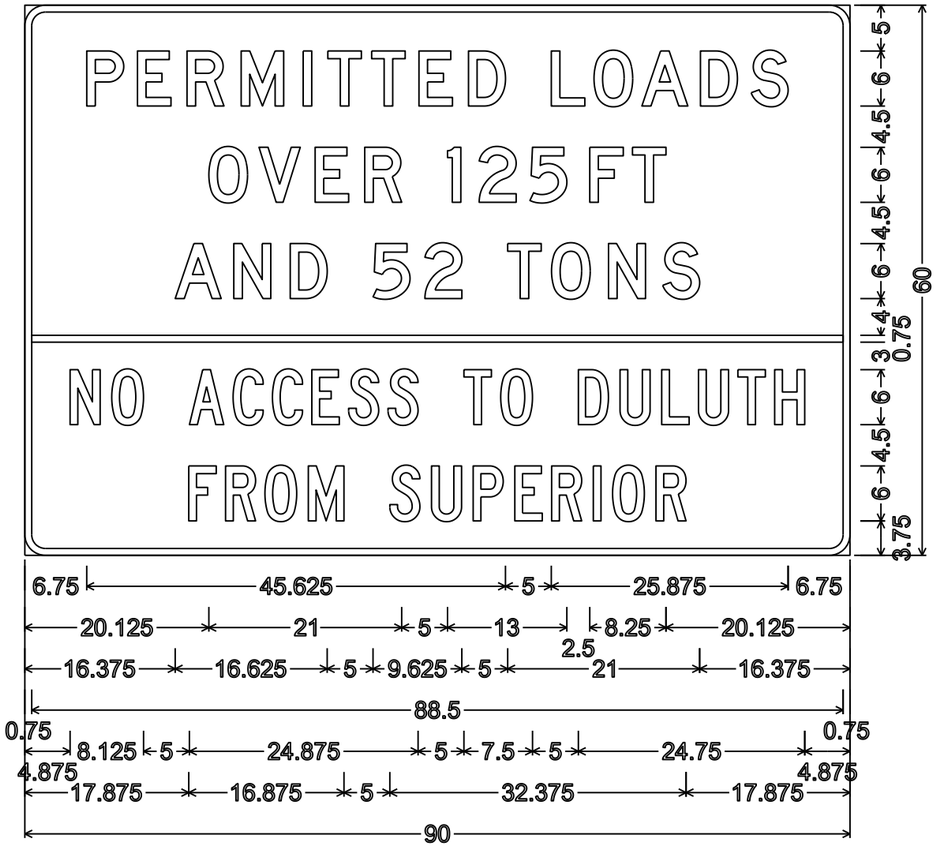
S.D.D. 16 A 1-6



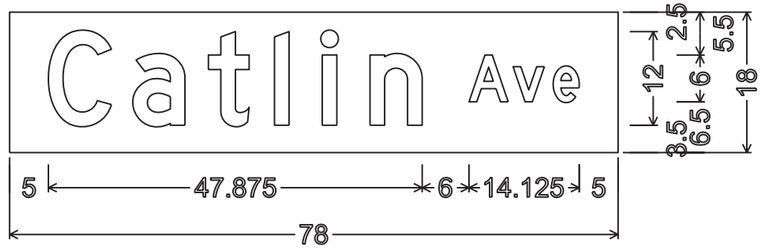
3.000" Radius, 1.000" Border,
"PERMITTED" D; "LOADS" D; "OVER" D; "125 FT" D; "AND" D; "52" D; "TONS" D; "NO" C;
"ACCESS" C; "TO" C; "DULUTH" C; "FROM" C; "SUPERIOR" C;

NOTES

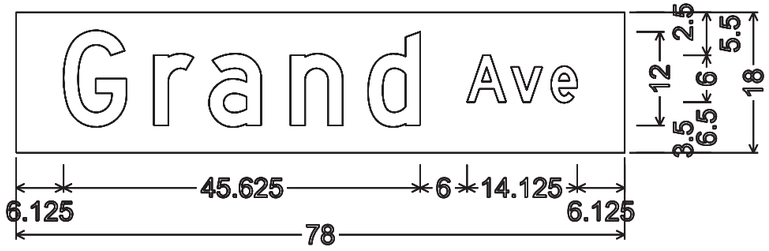
1. Signs are Type II- Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - As noted



2.250" Radius, 0.750" Border,
"PERMITTED" D; "LOADS" D; "OVER" D; "125 FT" D; "AND" D; "52" D;
"TONS" D; "NO" C; "ACCESS" C; "TO" C; "DULUTH" C; "FROM" C;
"SUPERIOR" C;



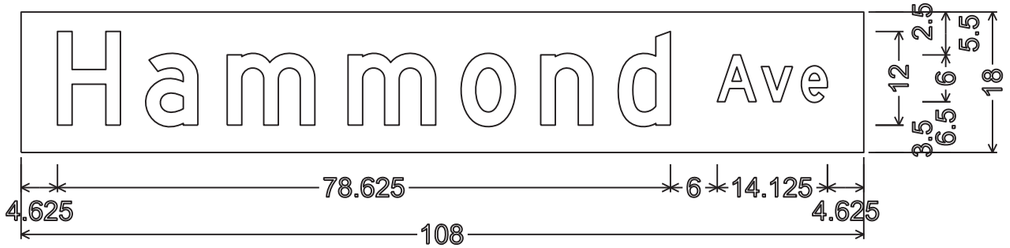
M1-94H; No border



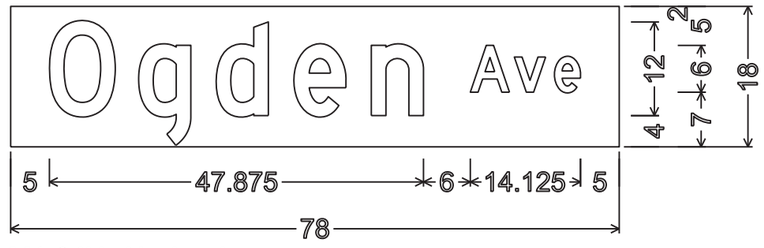
M1-94H; No border,

NOTES

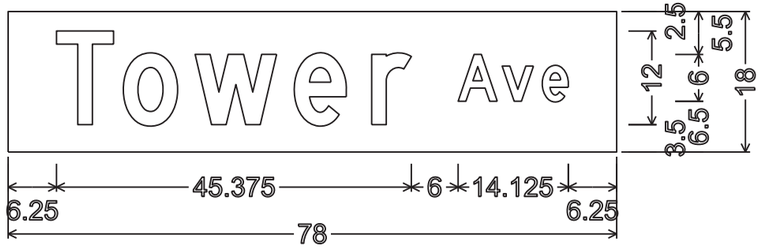
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D



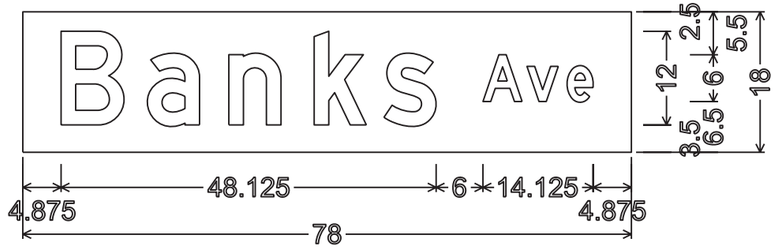
M1-94H; No border



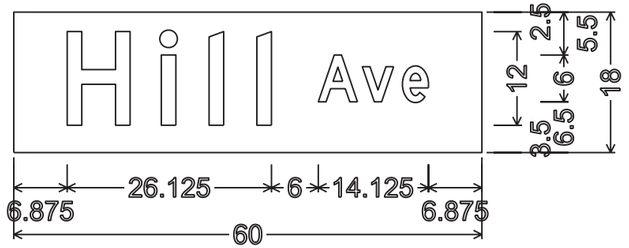
M1-94H; No border



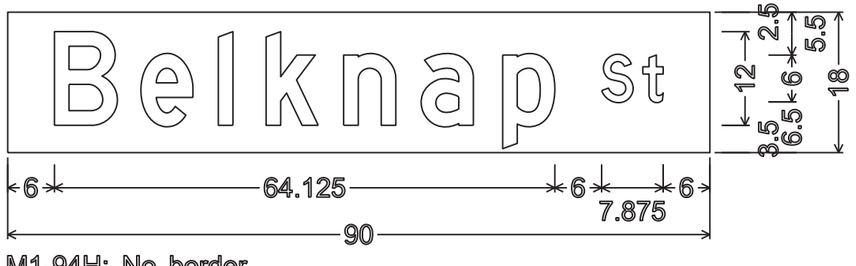
M1-94H; No border



M1-94H; No border



M1-94H; No border



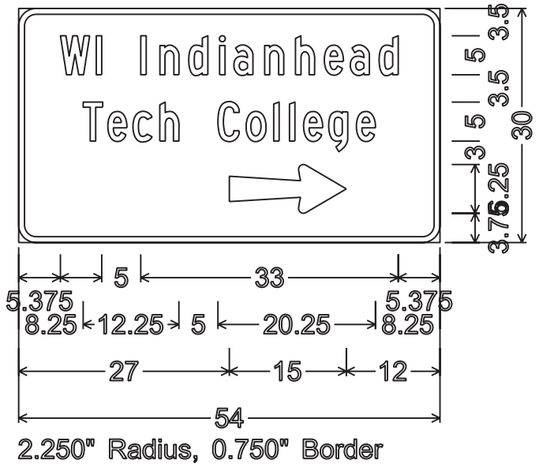
M1-94H; No border

PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET NO:	E

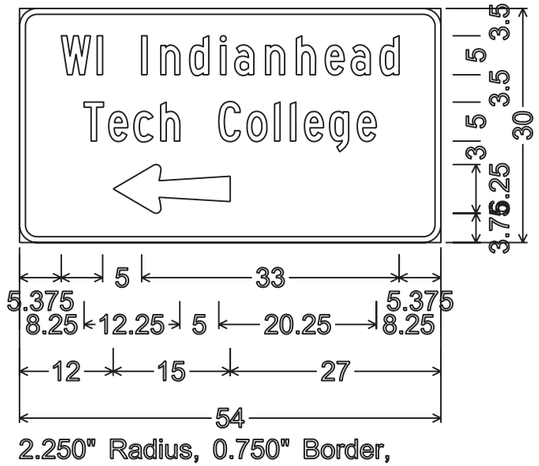
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NOTES

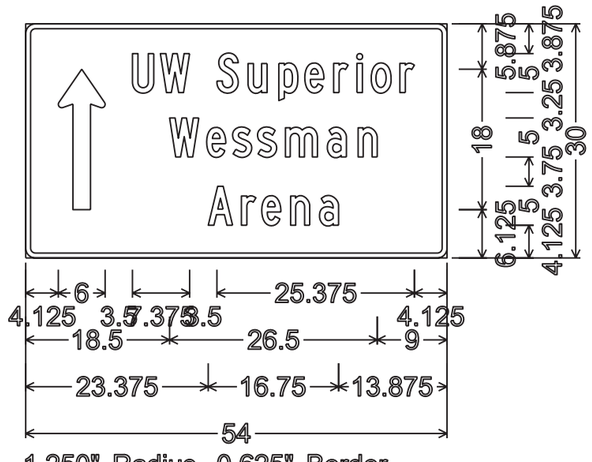
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White except as noted
3. Message Series - C except as noted



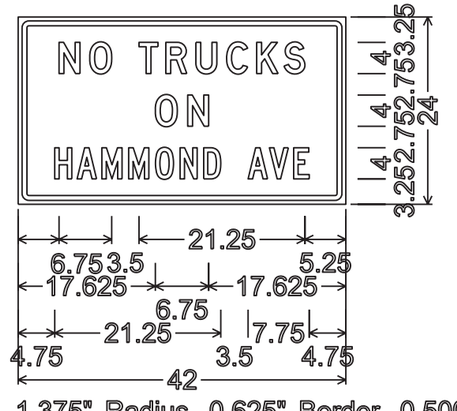
2.250" Radius, 0.750" Border



2.250" Radius, 0.750" Border,



1.250" Radius, 0.625" Border,



1.375" Radius, 0.625" Border, 0.500" Indent, Black on White;
"NO" D; "TRUCKS" D;
"ON" D; "HAMMOND" C;
"AVE" C;

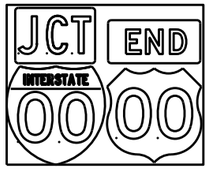
PROJECT NO: 8680-00-71	HWY: USH 2	COUNTY: DOUGLAS	PERMANENT SIGNING	SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr d8\8161g216.dgn PLOT DATE : 24-FEB-2016 09:43 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 19.415509:1.000000

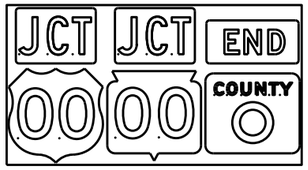
TYPICAL ASSEMBLIES



J1-1



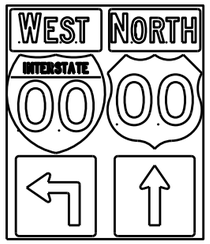
J1-2



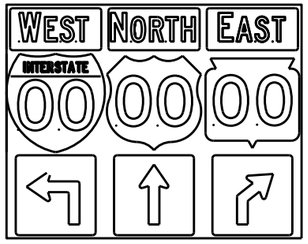
J1-3



J2-1



J2-2

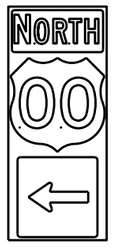


J2-3

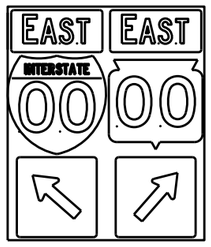


JV

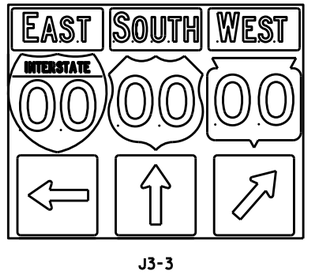
(Typical Vertical J-Assembly
See Note 10 and 11)



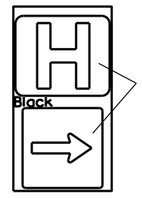
J3-1



J3-2



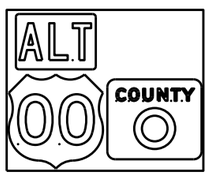
J3-3



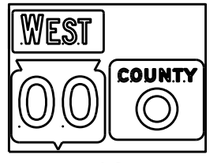
JH-1



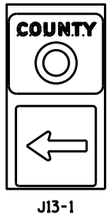
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



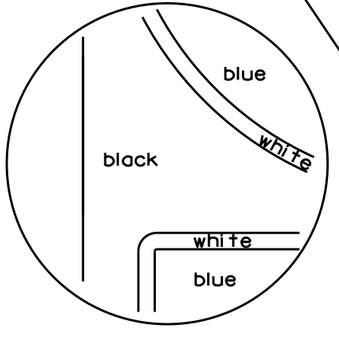
J33-1

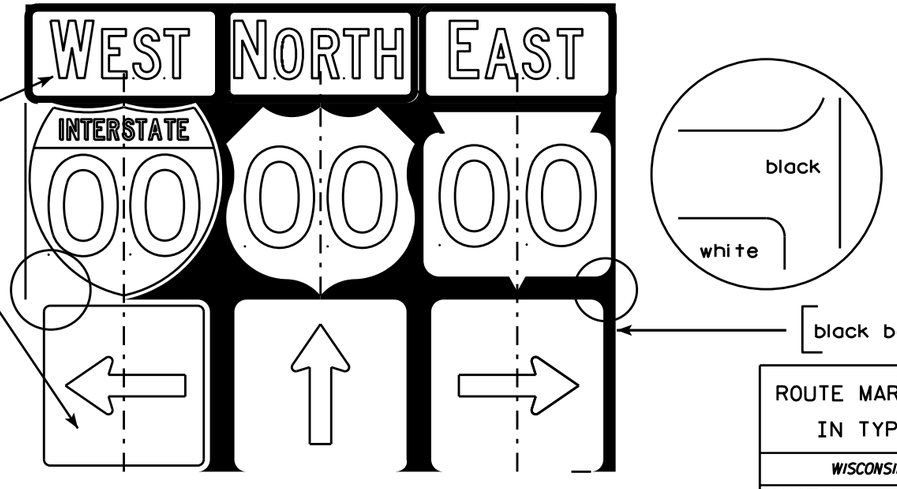


J23-1



J22-1





NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

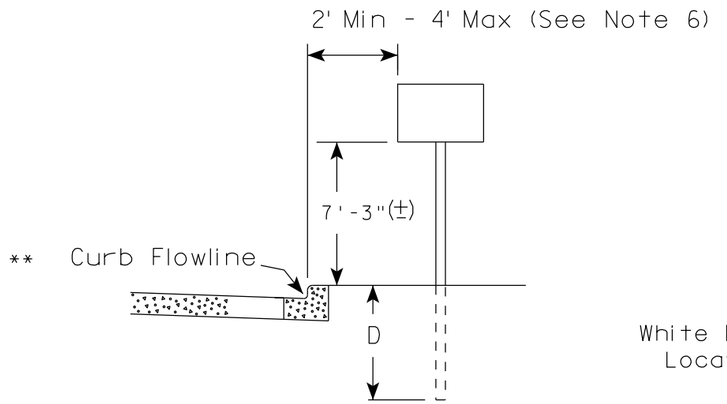
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

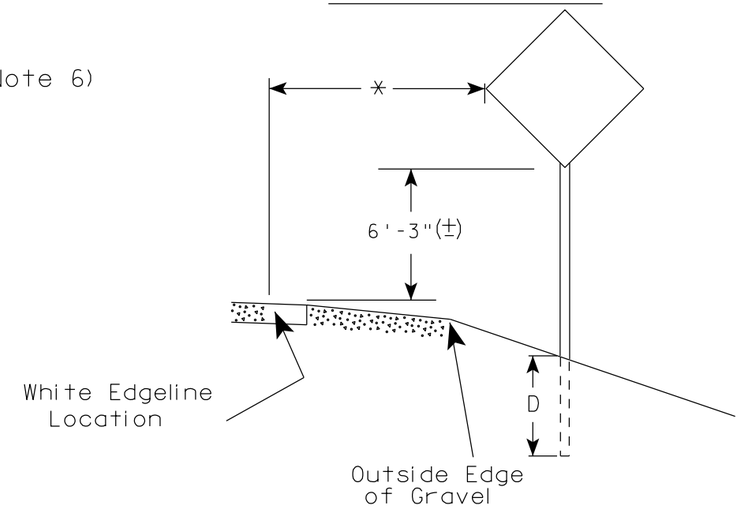
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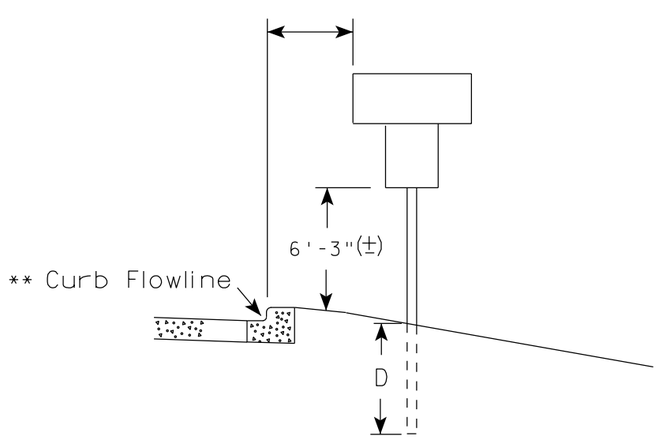
WISDOT/CADDS SHEET 42

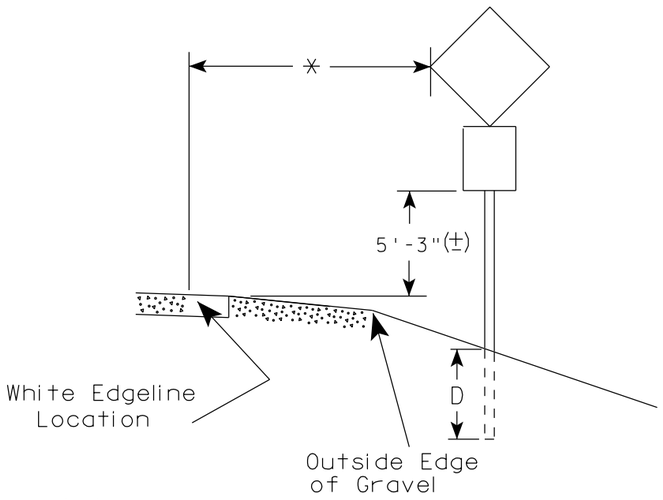
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

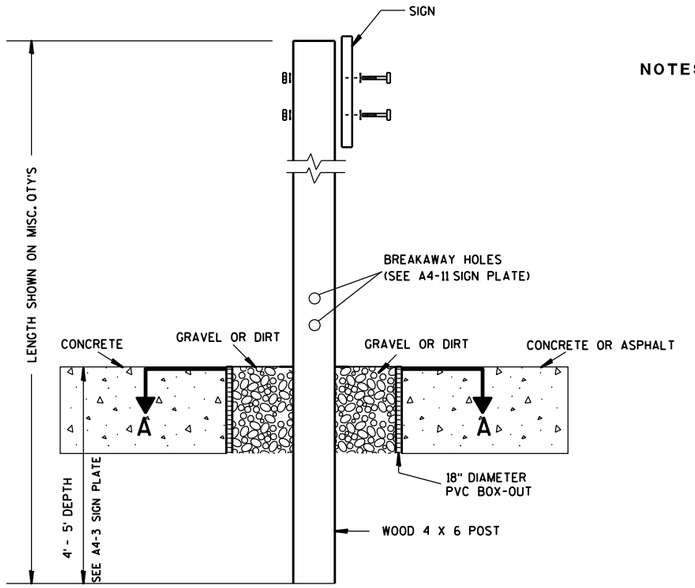
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

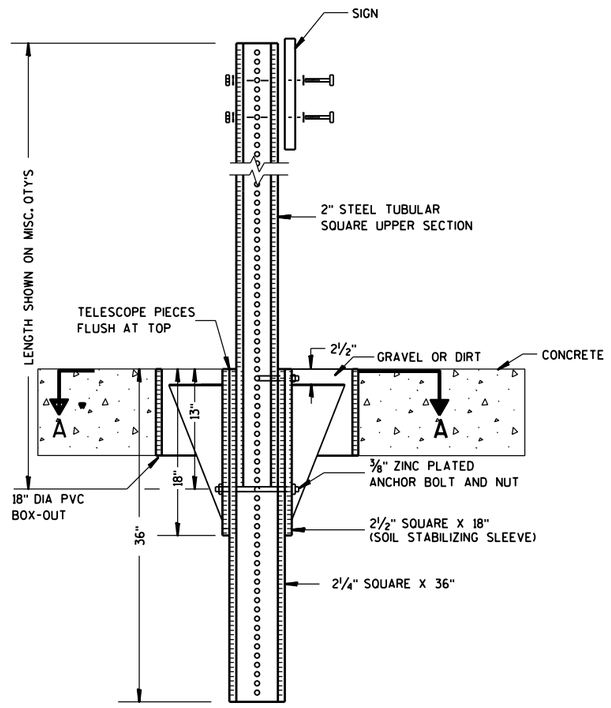
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

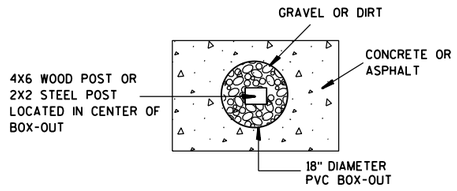
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

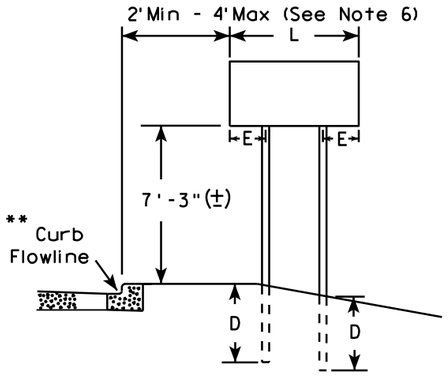
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

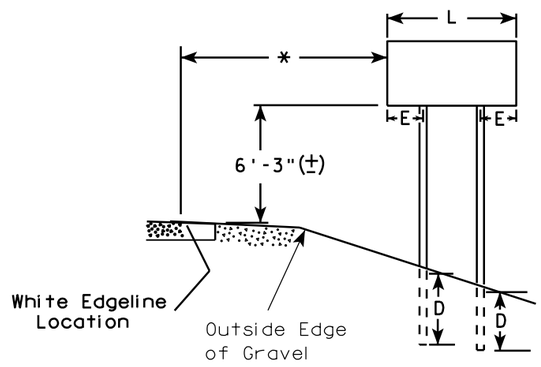
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

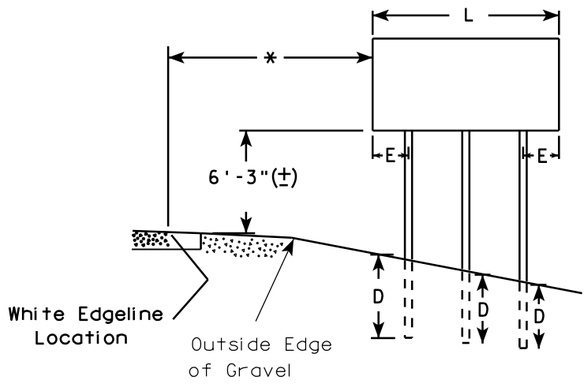
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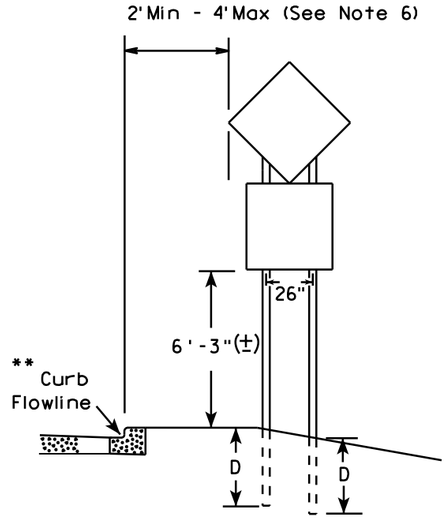
URBAN AREA



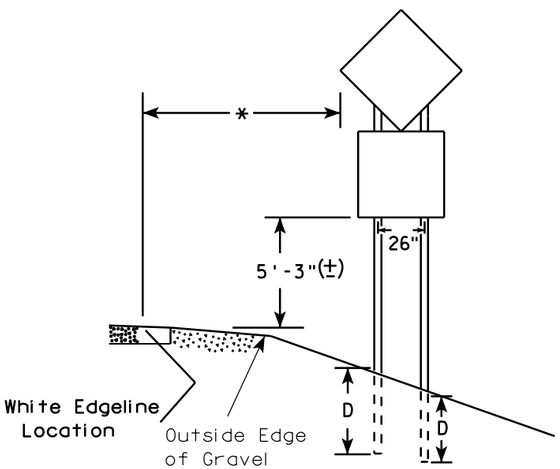
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

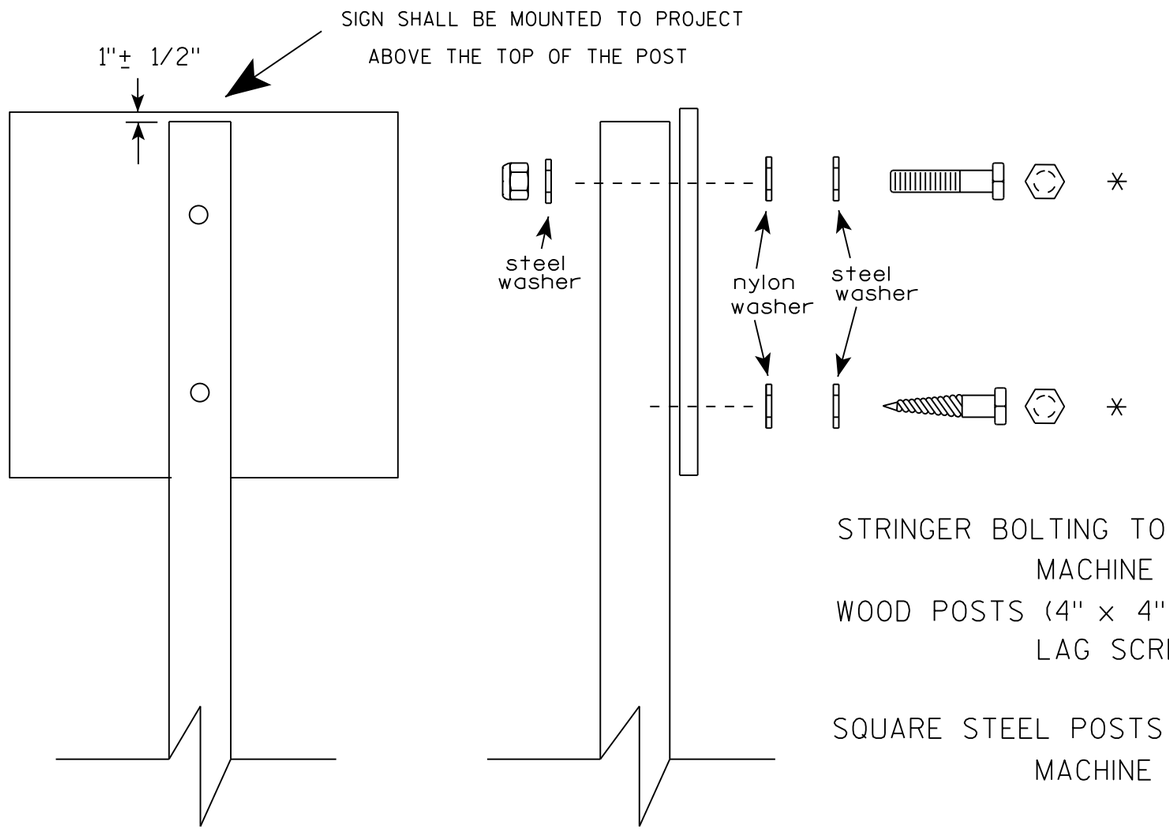
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 789 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

790

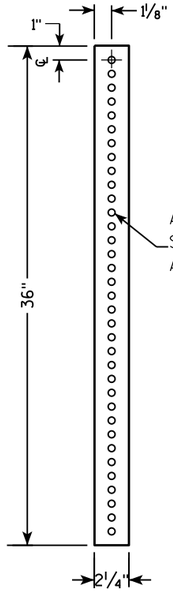
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SHEET NO: E

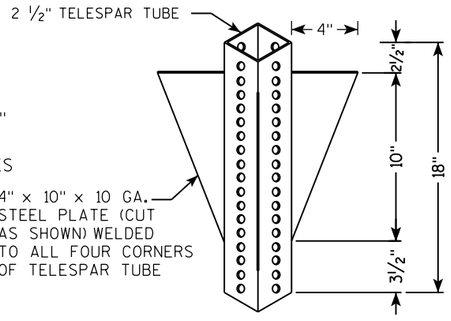
7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

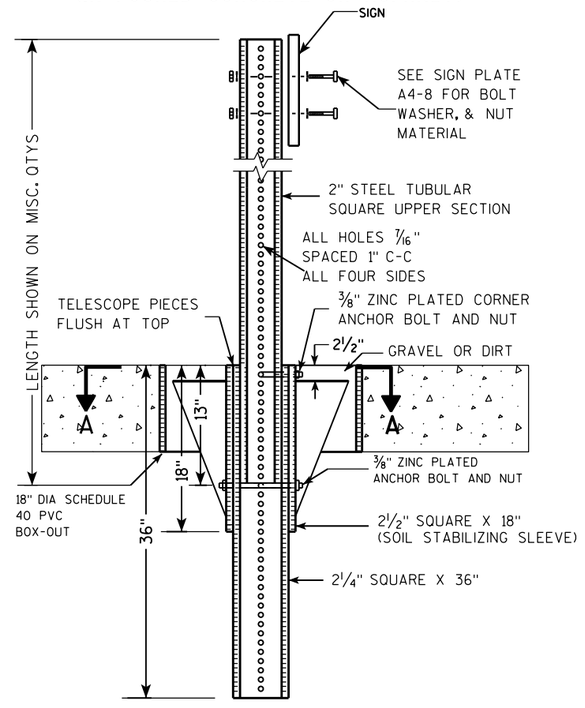
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



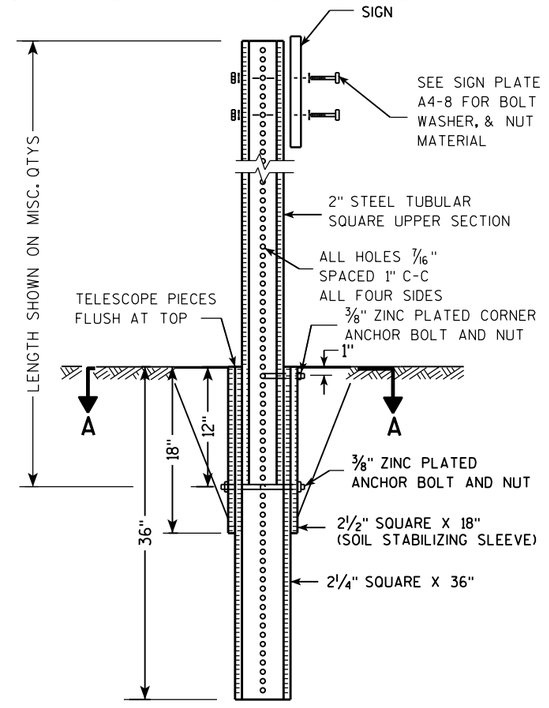
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

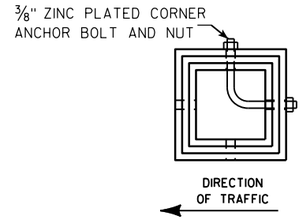


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

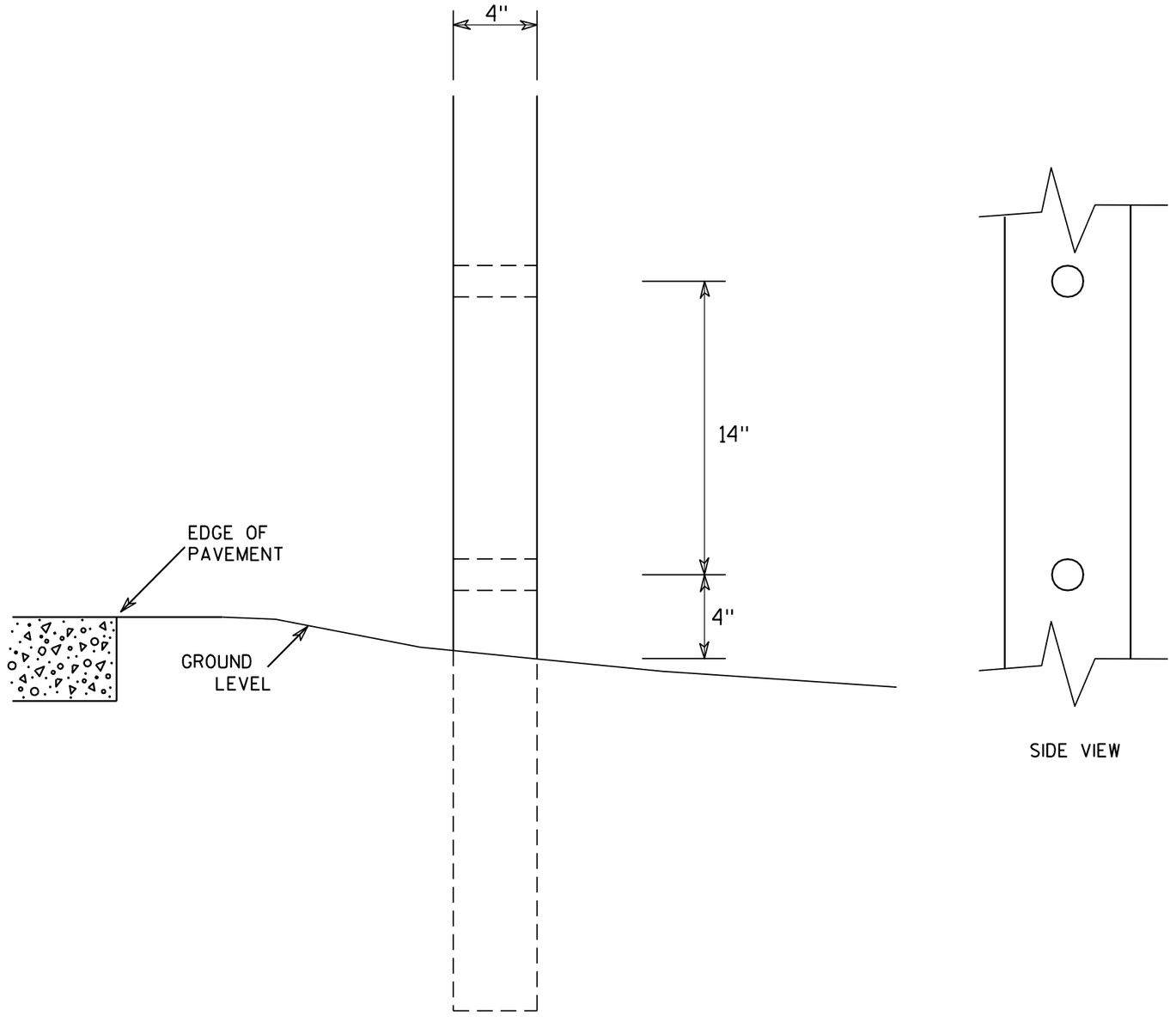
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 791 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

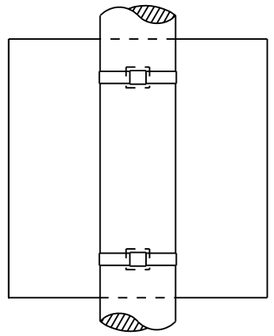
APPROVED Chester J Spang for State Traffic Engineer

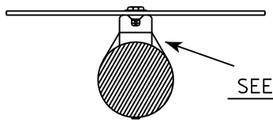
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 792	E

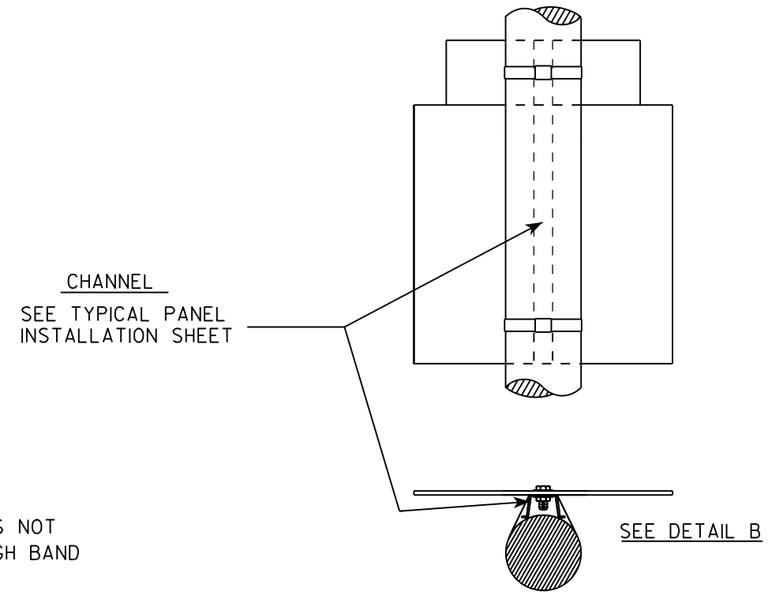
BANDING

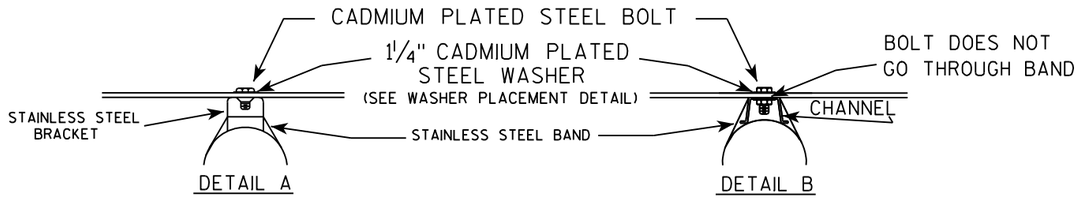
SINGLE SIGN



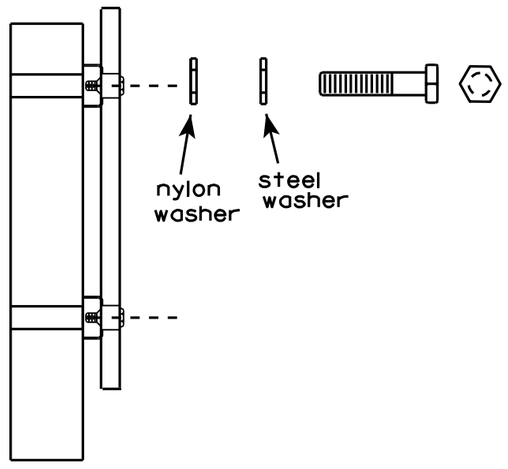


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

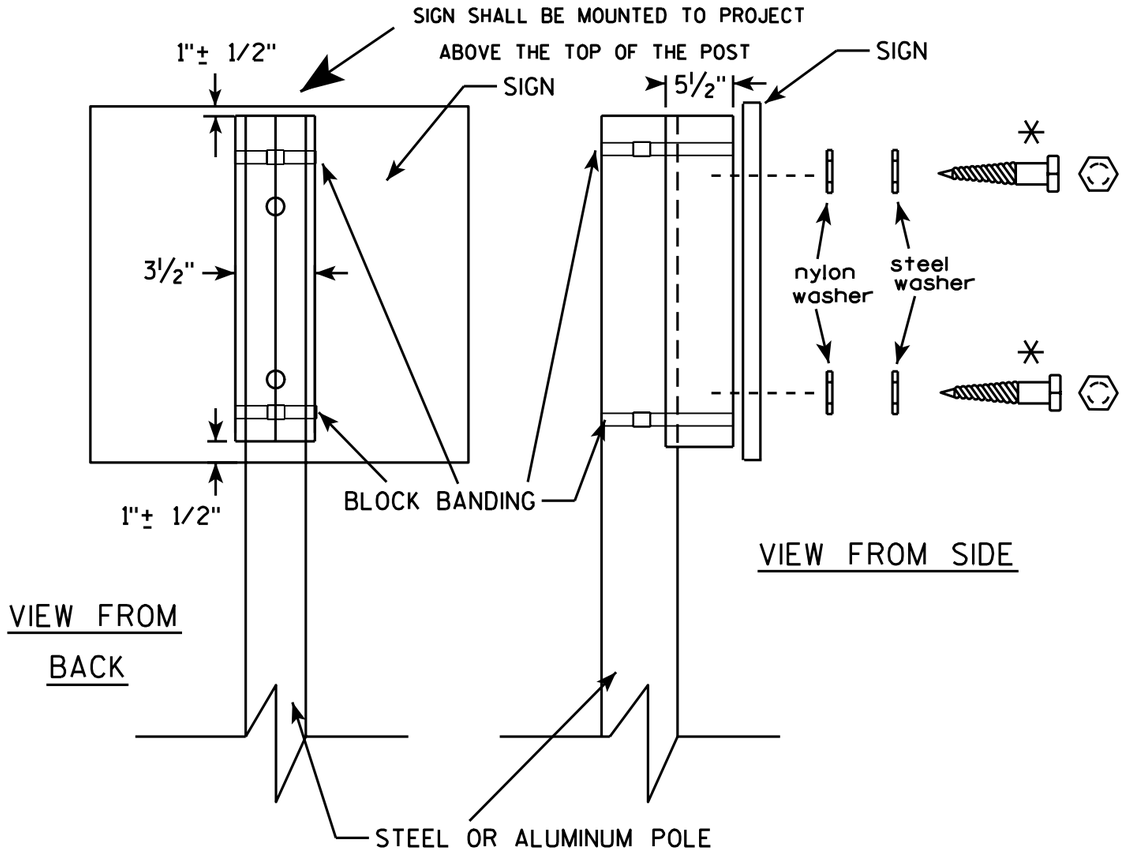
STANDARD SIGN
SIGN BANDING DETAILS

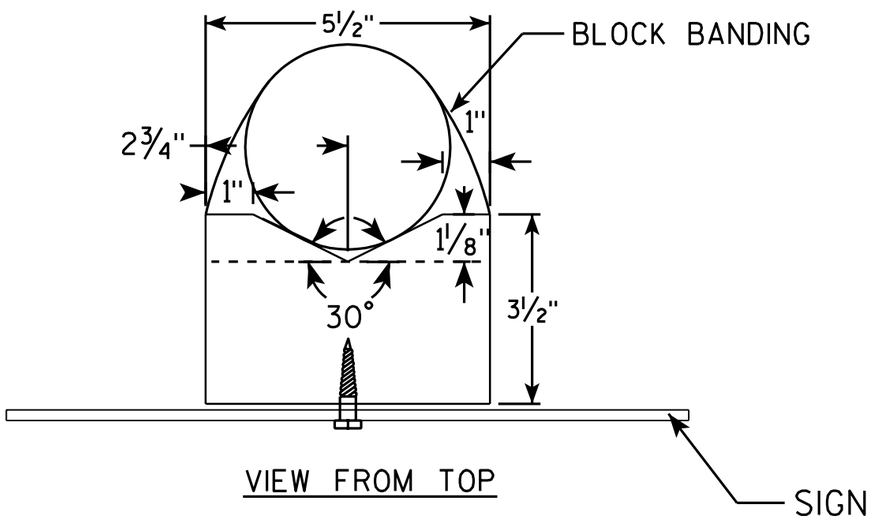
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 793	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

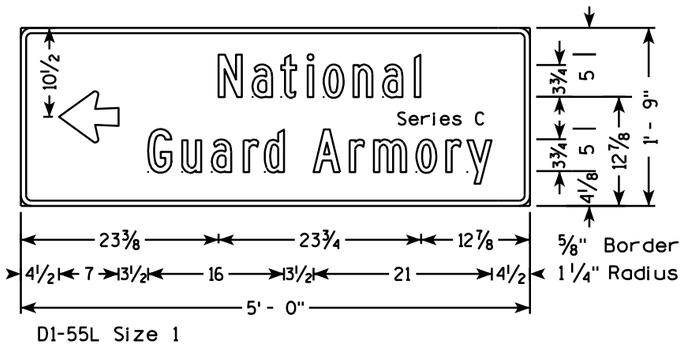
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

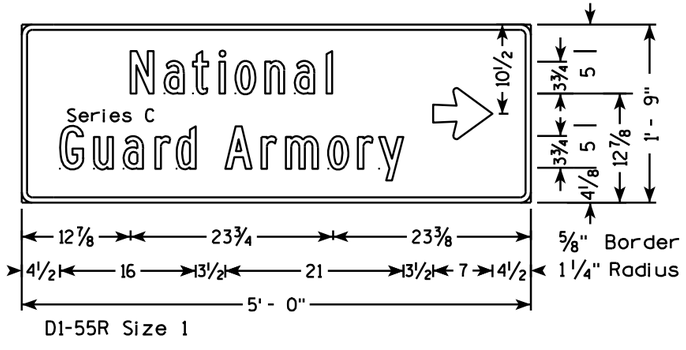
SHEET NO: 794 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



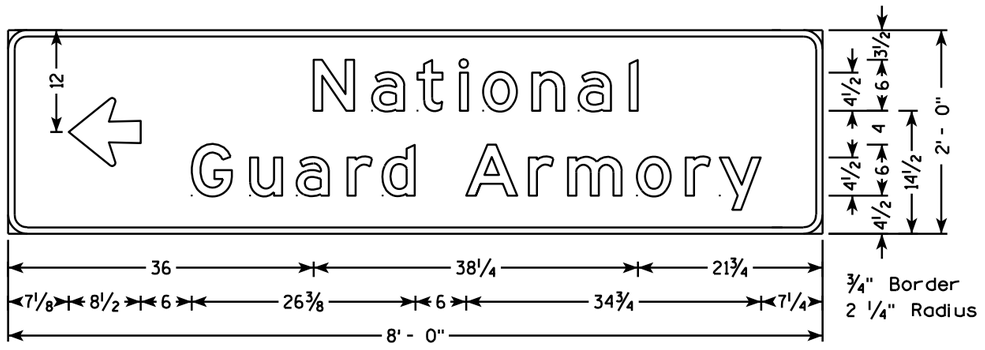
D1-55L Size 1



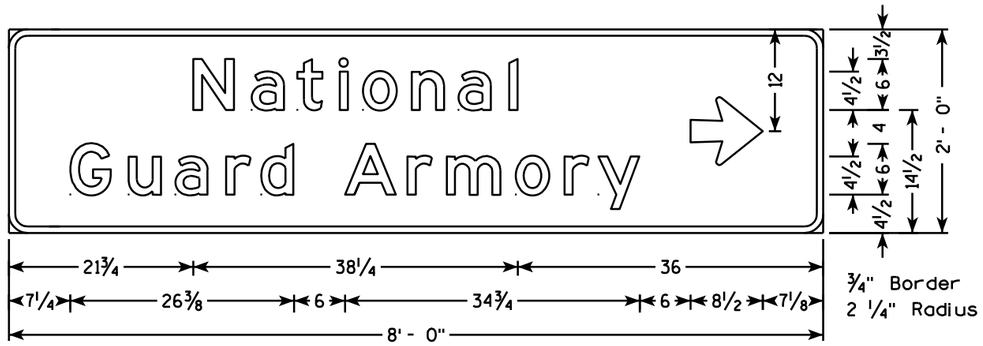
D1-55R Size 1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



D1-55L Size 2



D1-55R Size 2

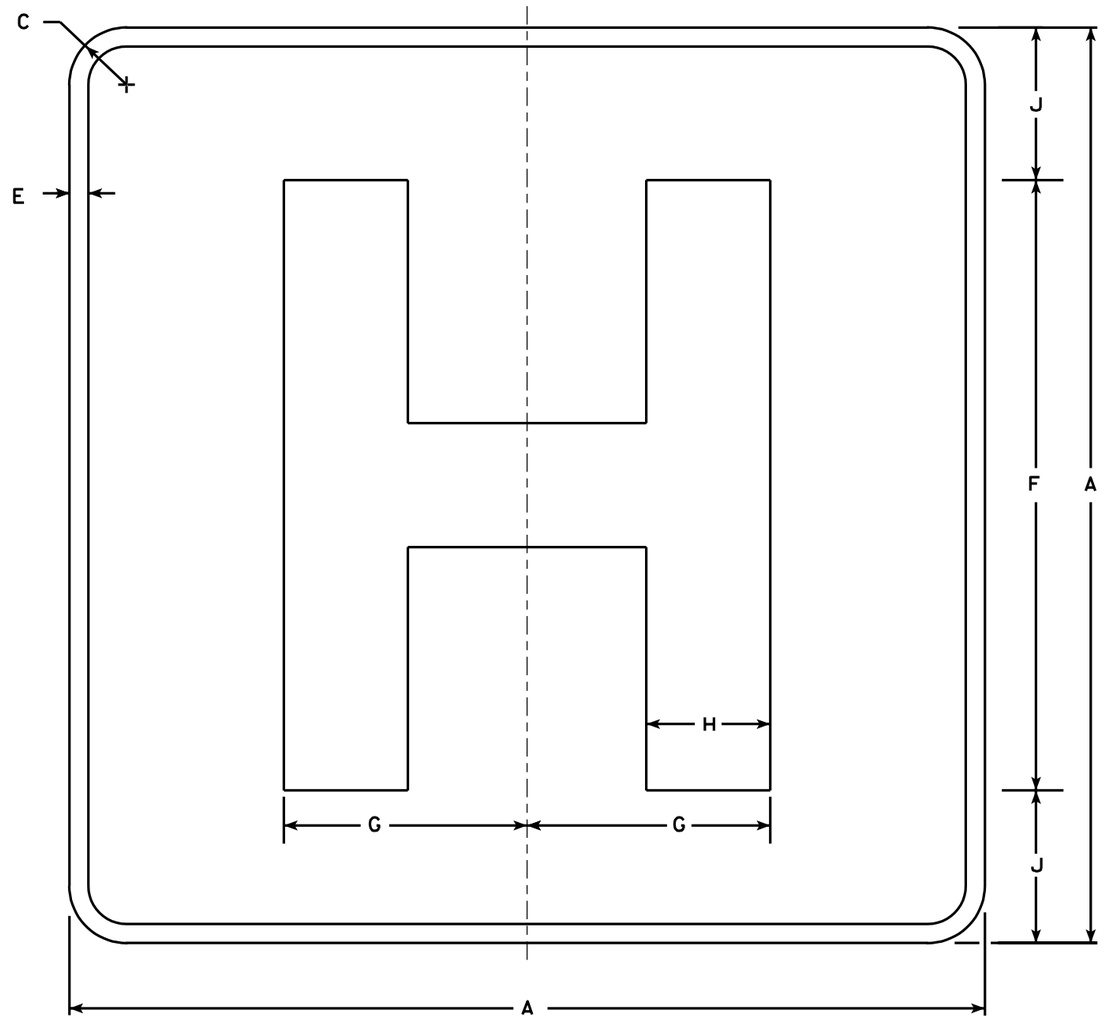
TYPICAL STANDARD
D1-55L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/21/13 PLATE NO. D1-55L.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 795	E



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

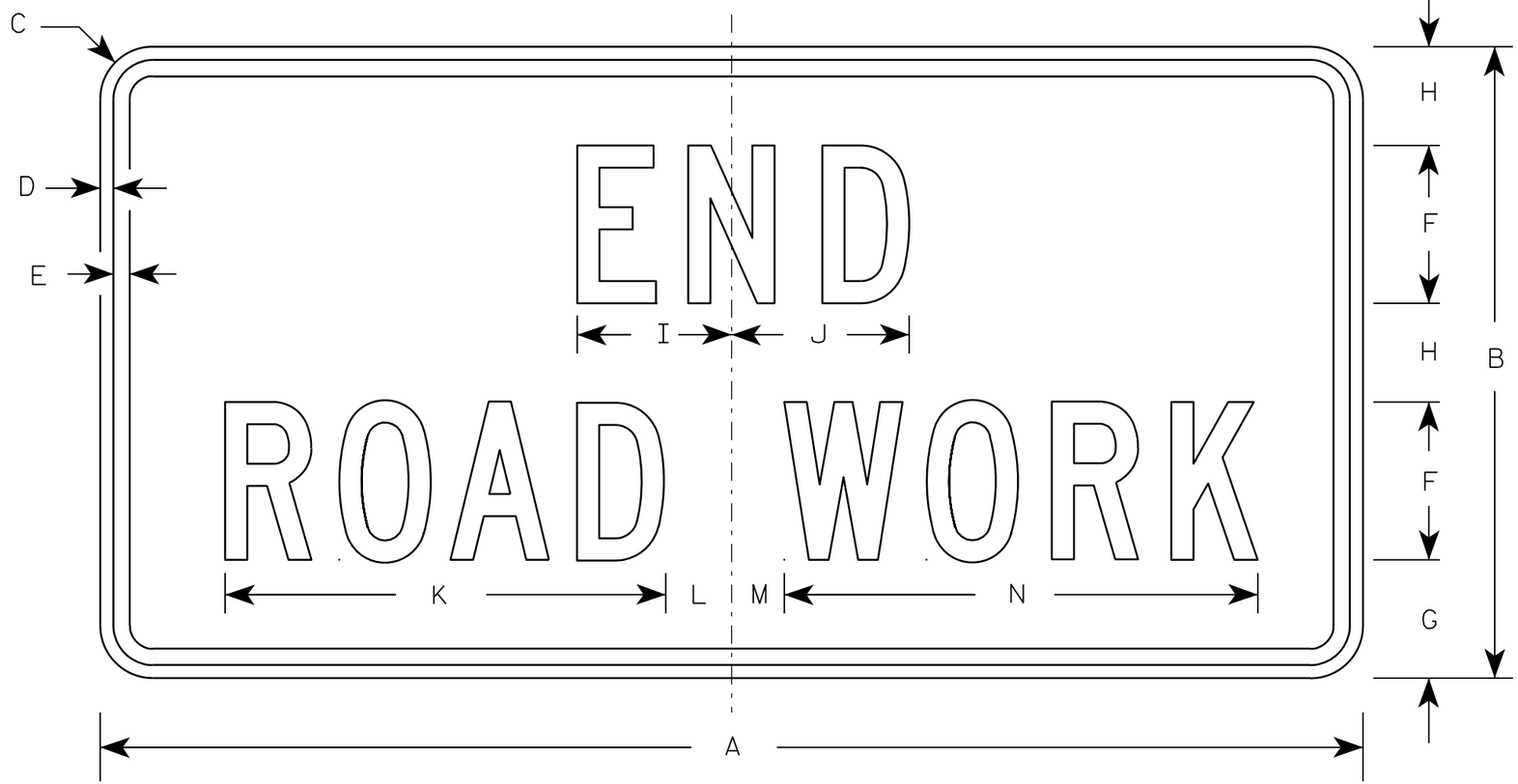
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

SHEET NO: 796 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

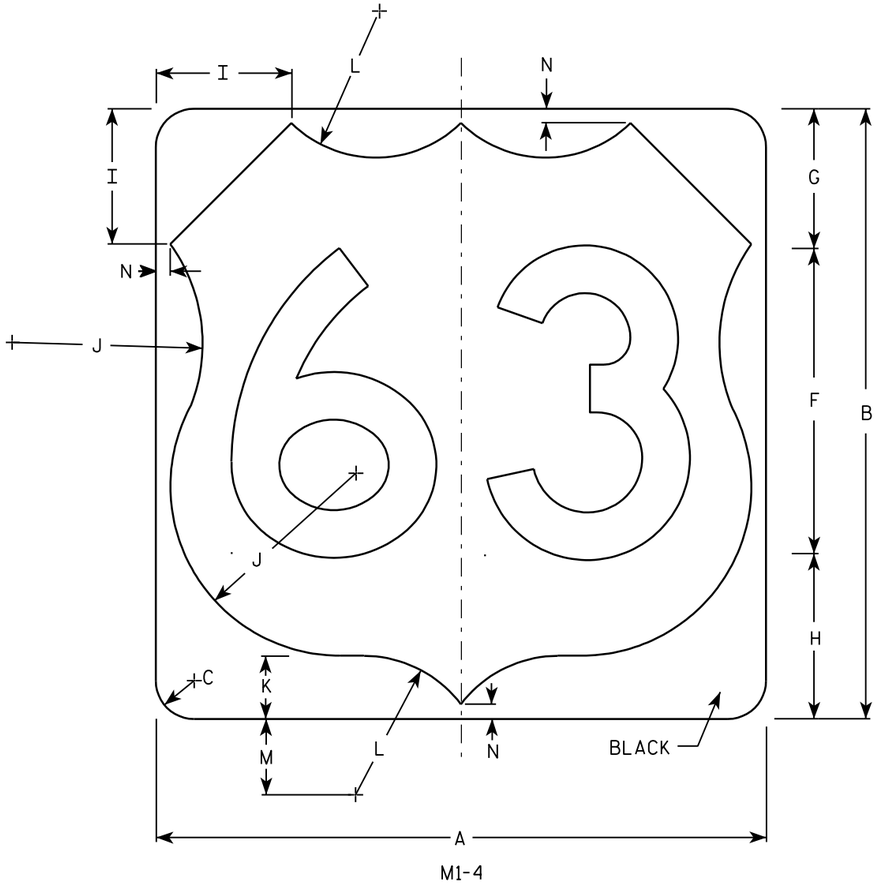
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

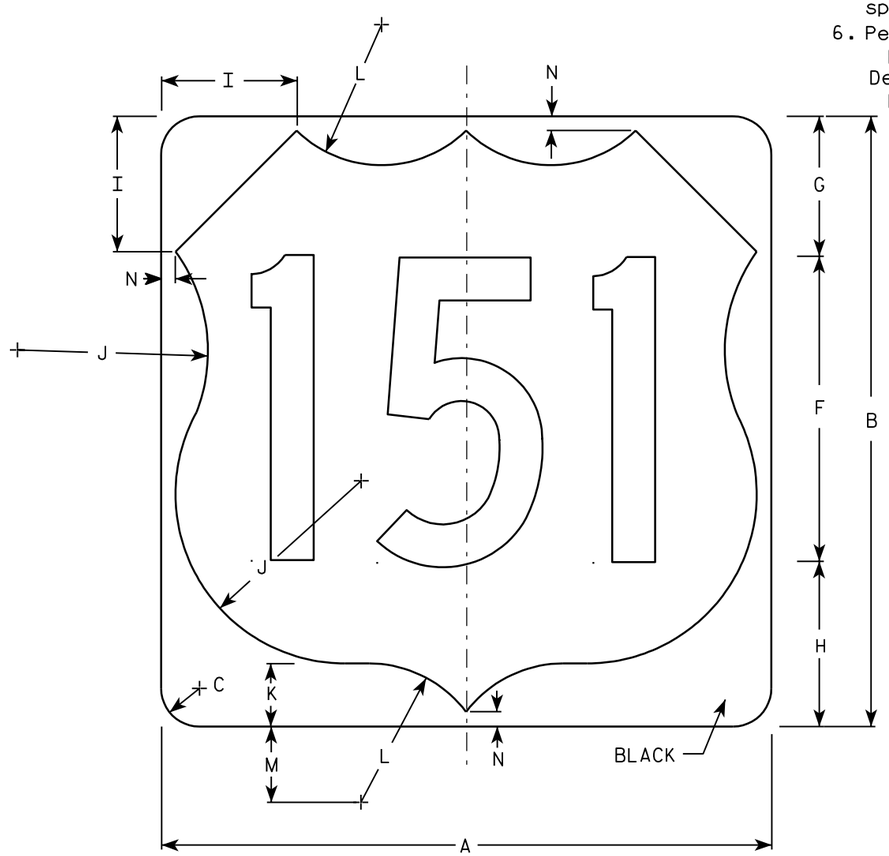
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 797	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

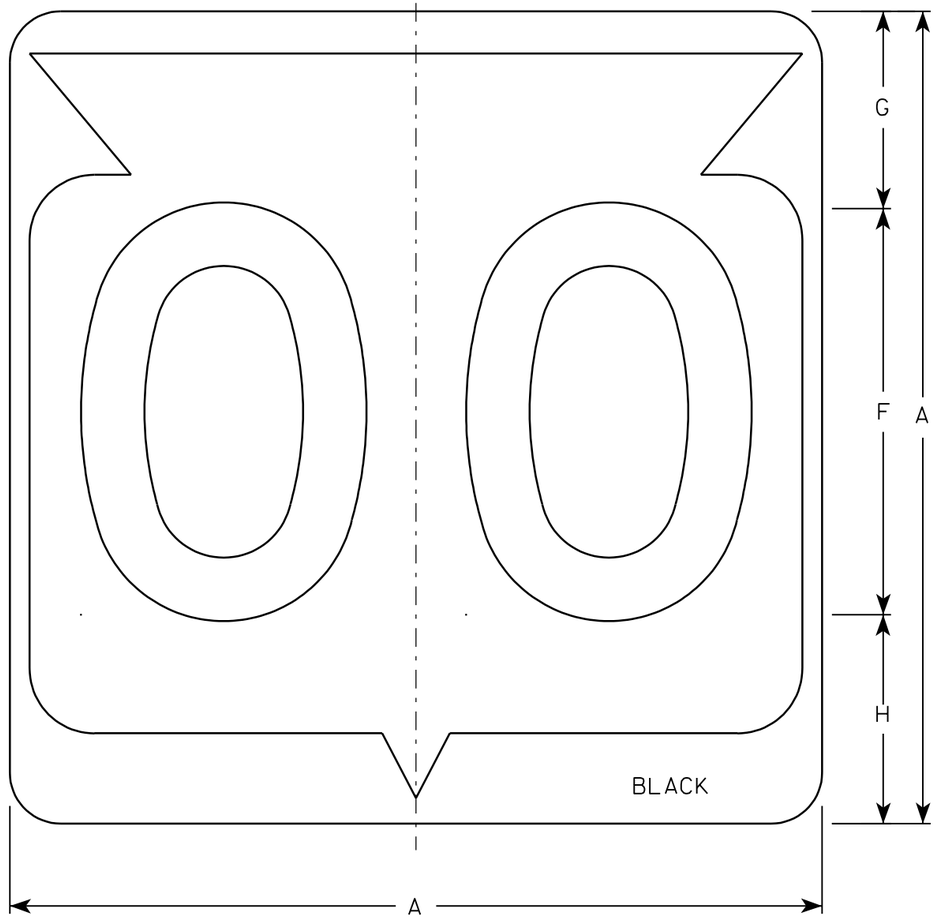
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

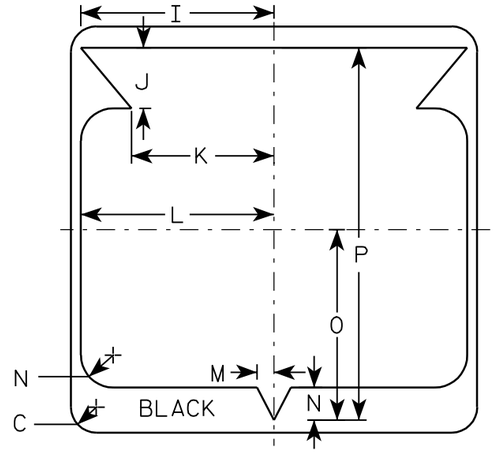
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 798 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

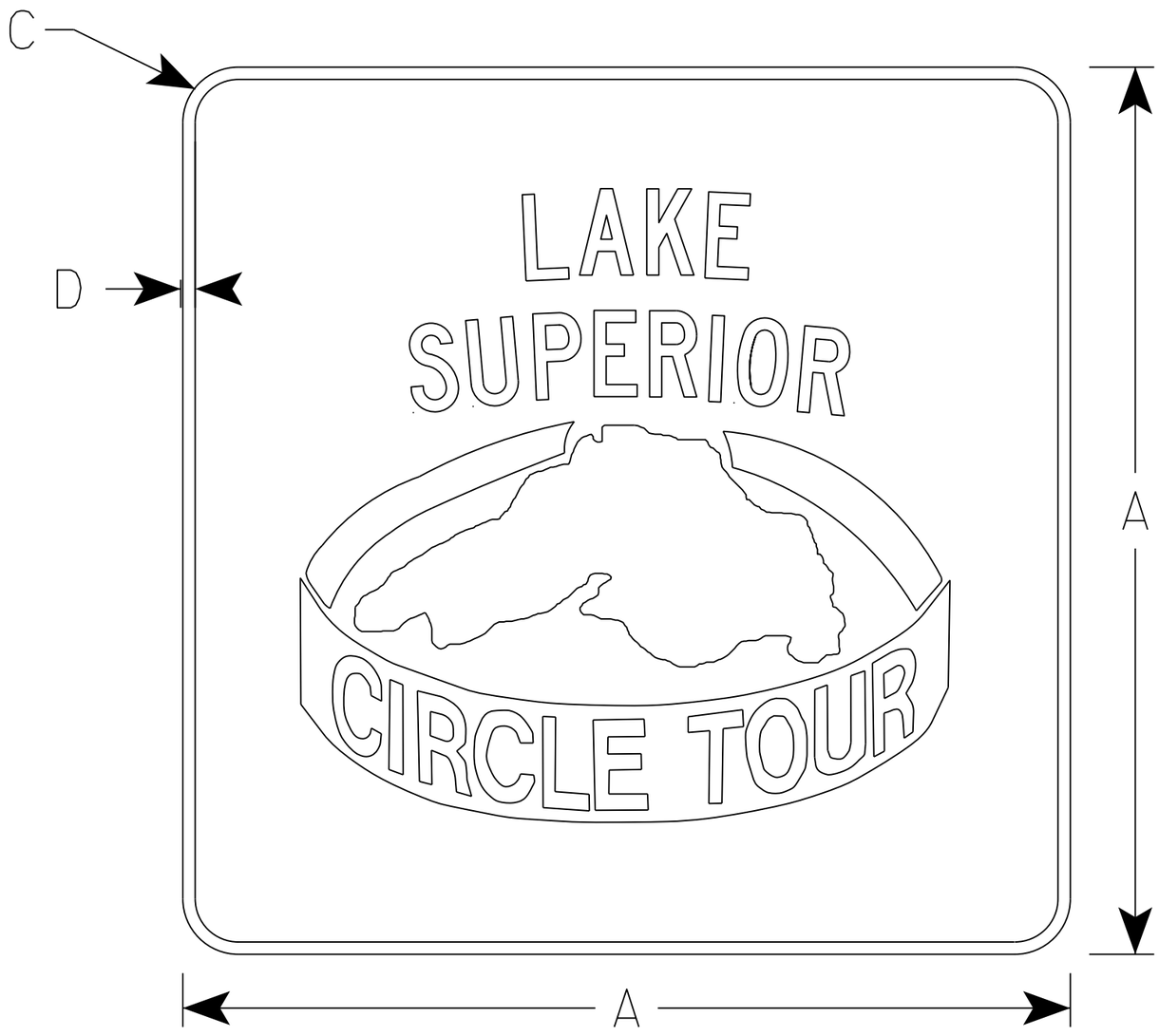
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 799	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Graphics - White
   Circle Tour Message is Green
3. Message Series - Special
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/8	1/2																							4.0	.36
3																												
4	36		1 5/8	3/4																							9.0	.81
5																												

STANDARD SIGN
M1-91

WISCONSIN DEPT OF TRANSPORTATION

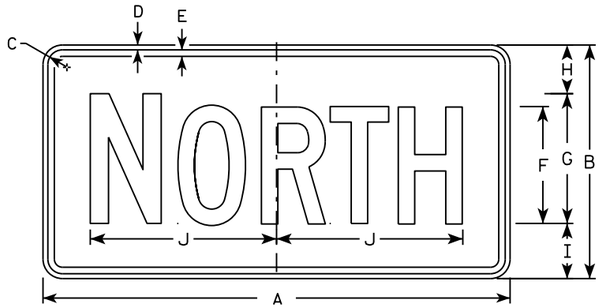
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/5/15 PLATE NO. M1-91.2

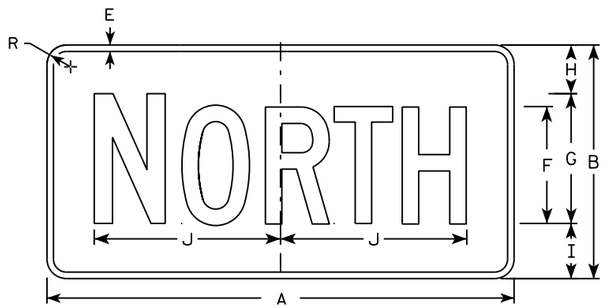
800

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M191.DGN PLOT DATE : 01-DEC-2015 18:00 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



M3-1
MM3-1
MP3-1



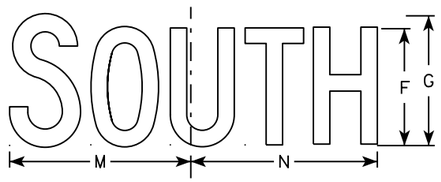
MB3-1
MK3-1
MN3-1



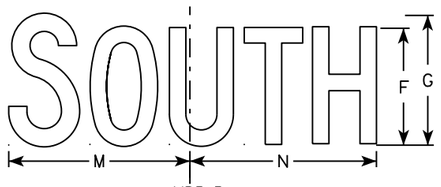
M3-2
MM3-2
MP3-2



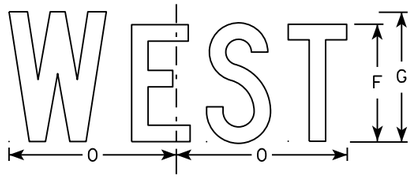
MB3-2
MK3-2
MN3-2



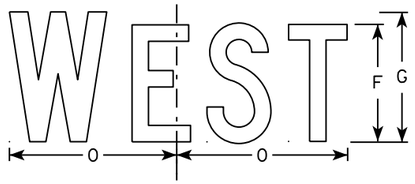
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

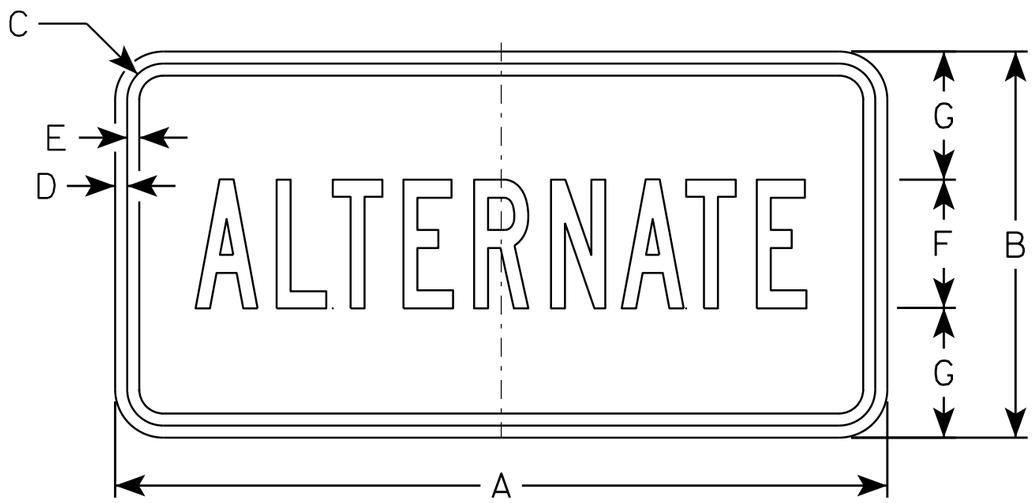
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

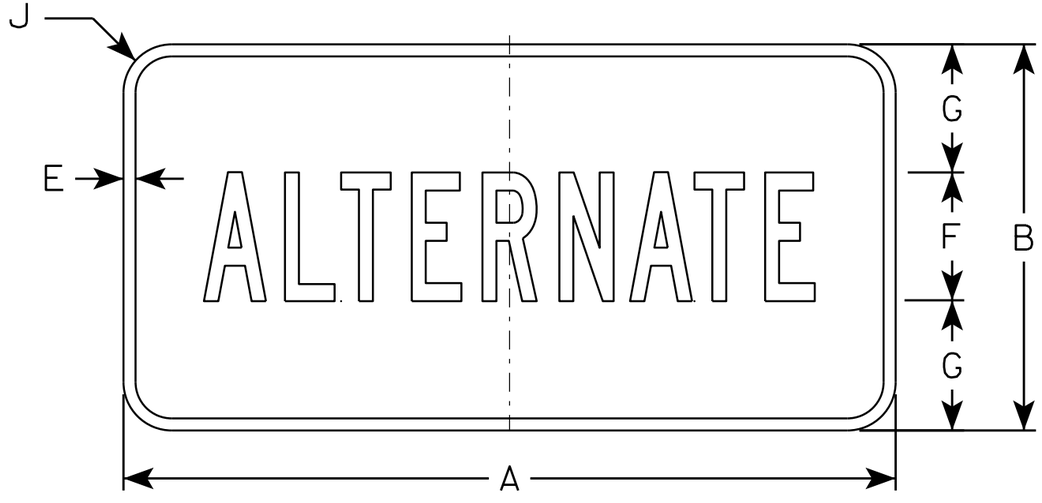
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

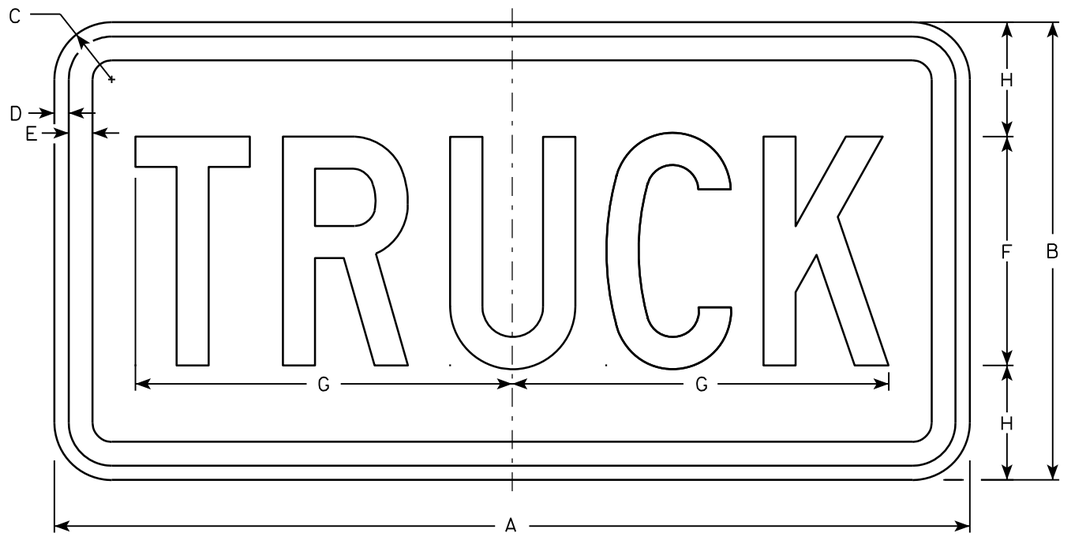
STANDARD SIGN
M4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 802 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-4

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Permanent Signs
   Background - Type H Reflective
   Temporary or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	9 7/8	3																			2.0
3	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
4																											
5																											

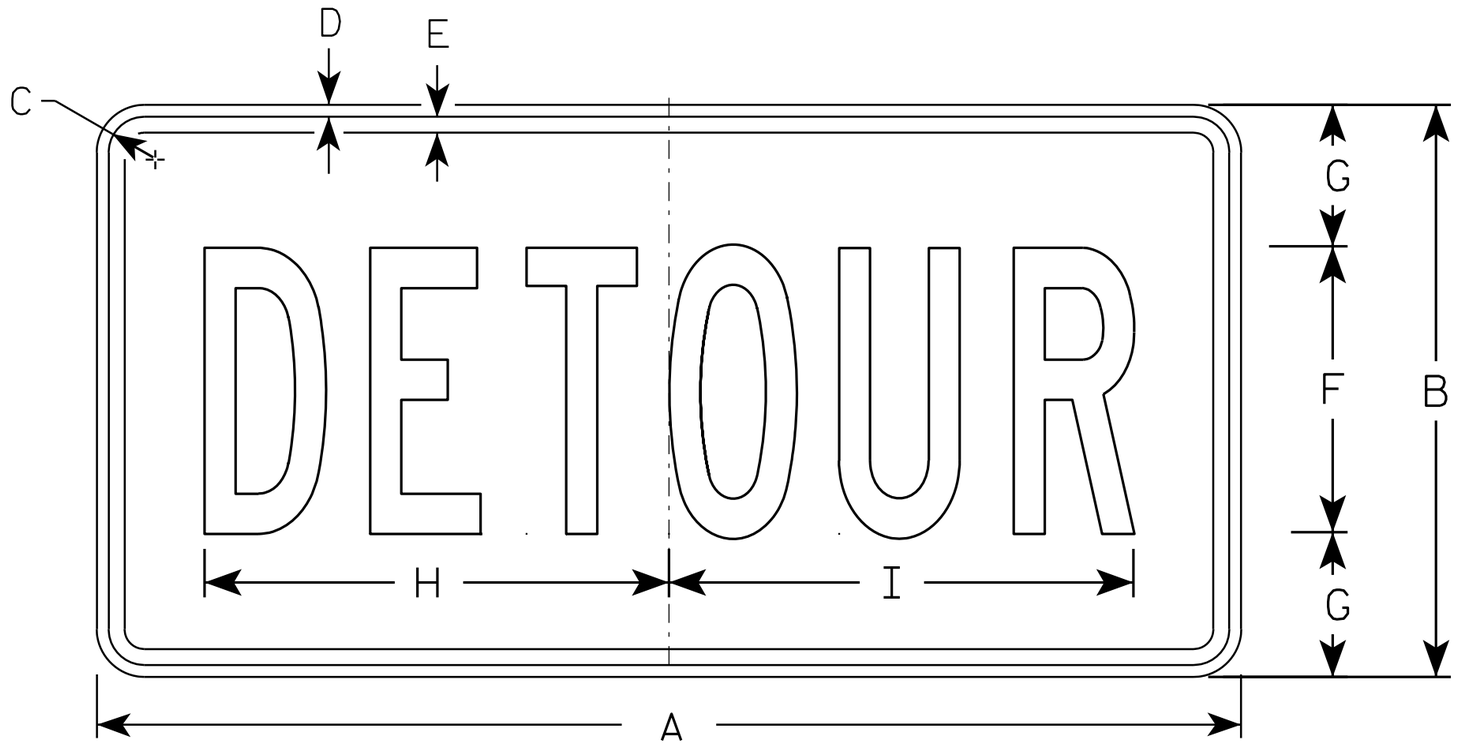
STANDARD SIGN
M4-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 803 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

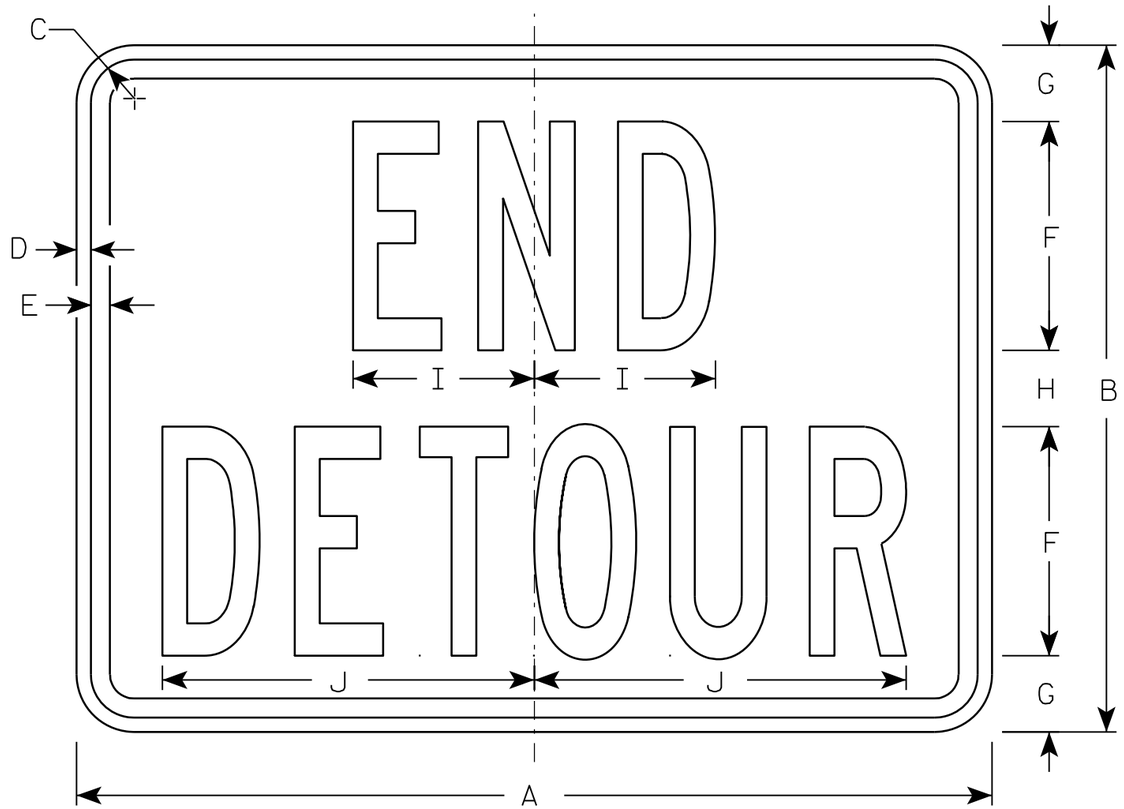
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 804	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

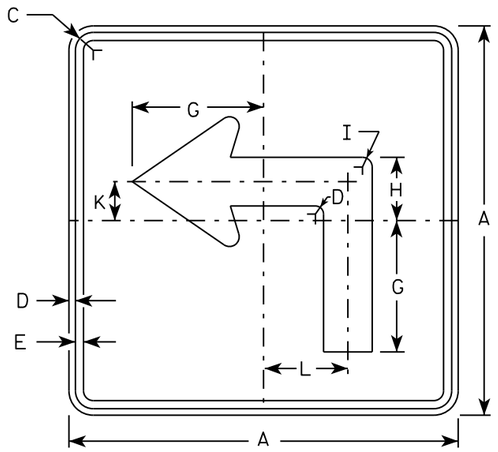
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

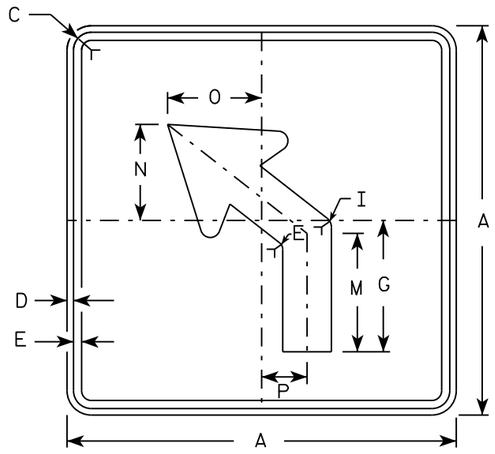
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

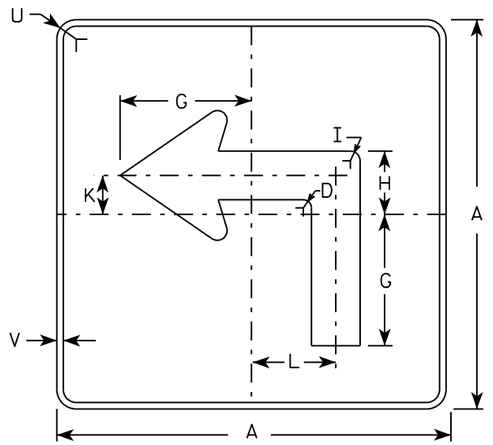
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 805	E



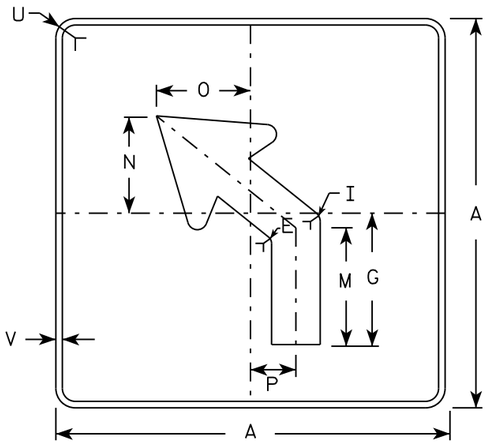
M5-1L
MM5-1L
MO5-1L
MP5-1L



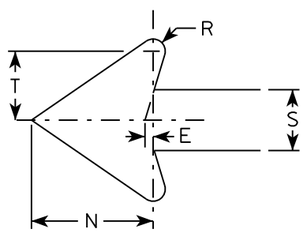
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

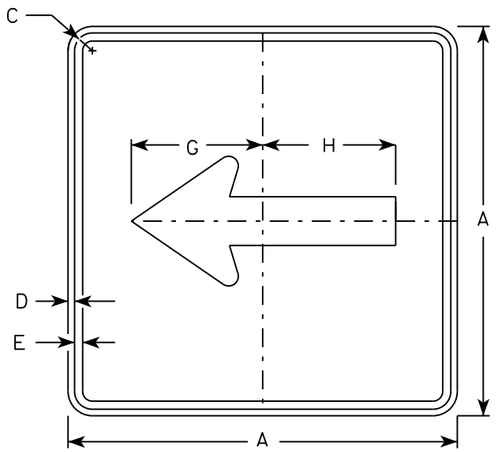
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

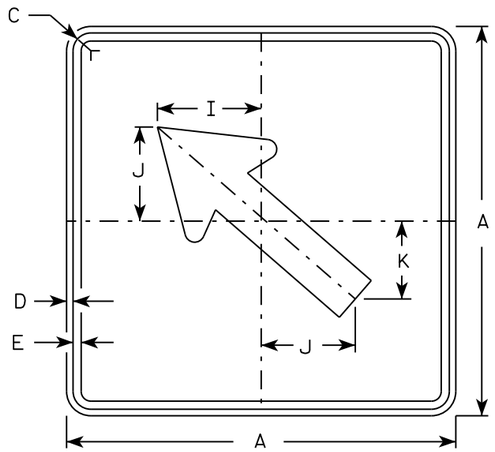
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



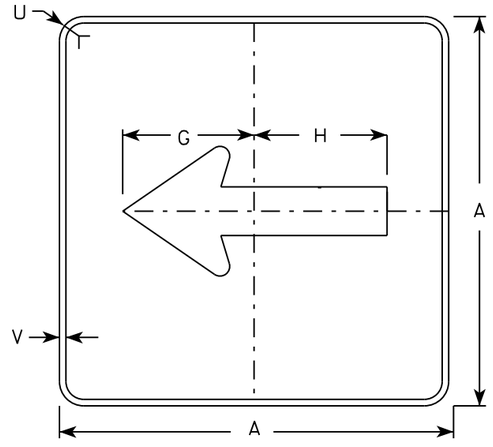
M6-1
MM6-1
MO6-1
MP6-1



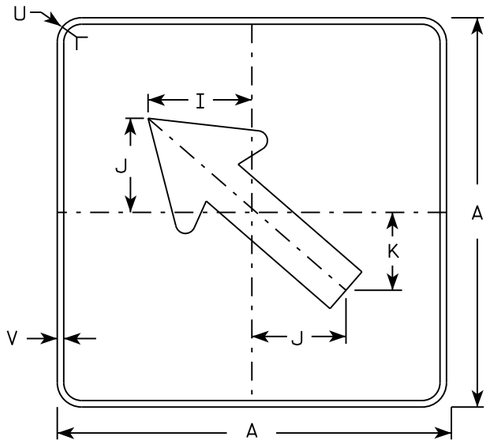
M6-2
MM6-2
MO6-2
MP6-2

NOTES

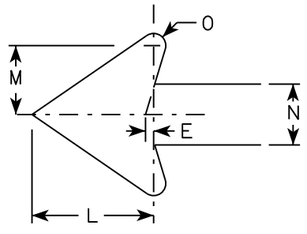
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

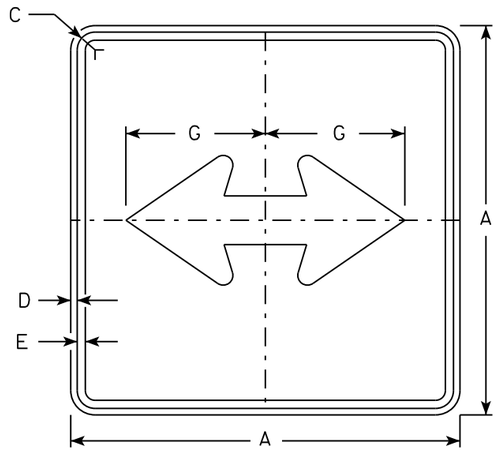
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

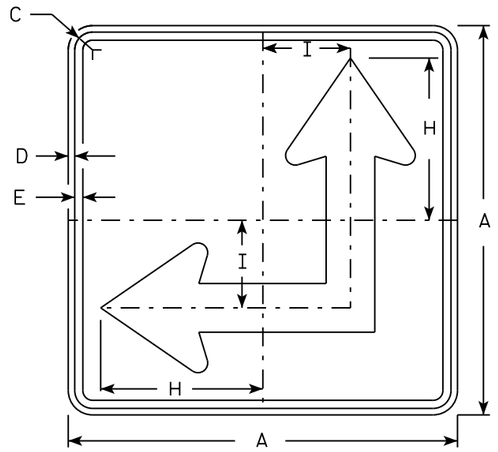
DATE 10/15/15 PLATE 807 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



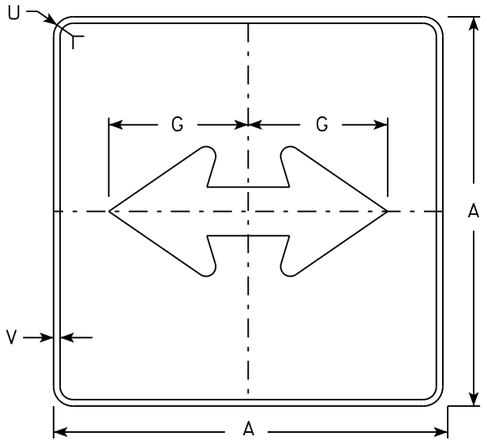
M6-4
MM6-4
MO6-4
MP6-4



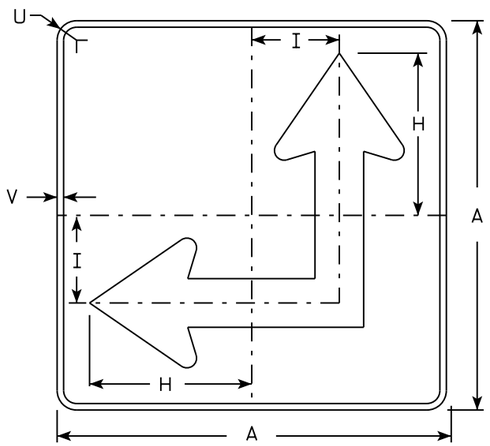
M6-6
MM6-6
MO6-6
MP6-6

NOTES

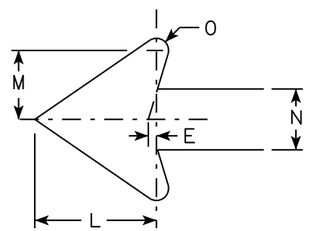
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

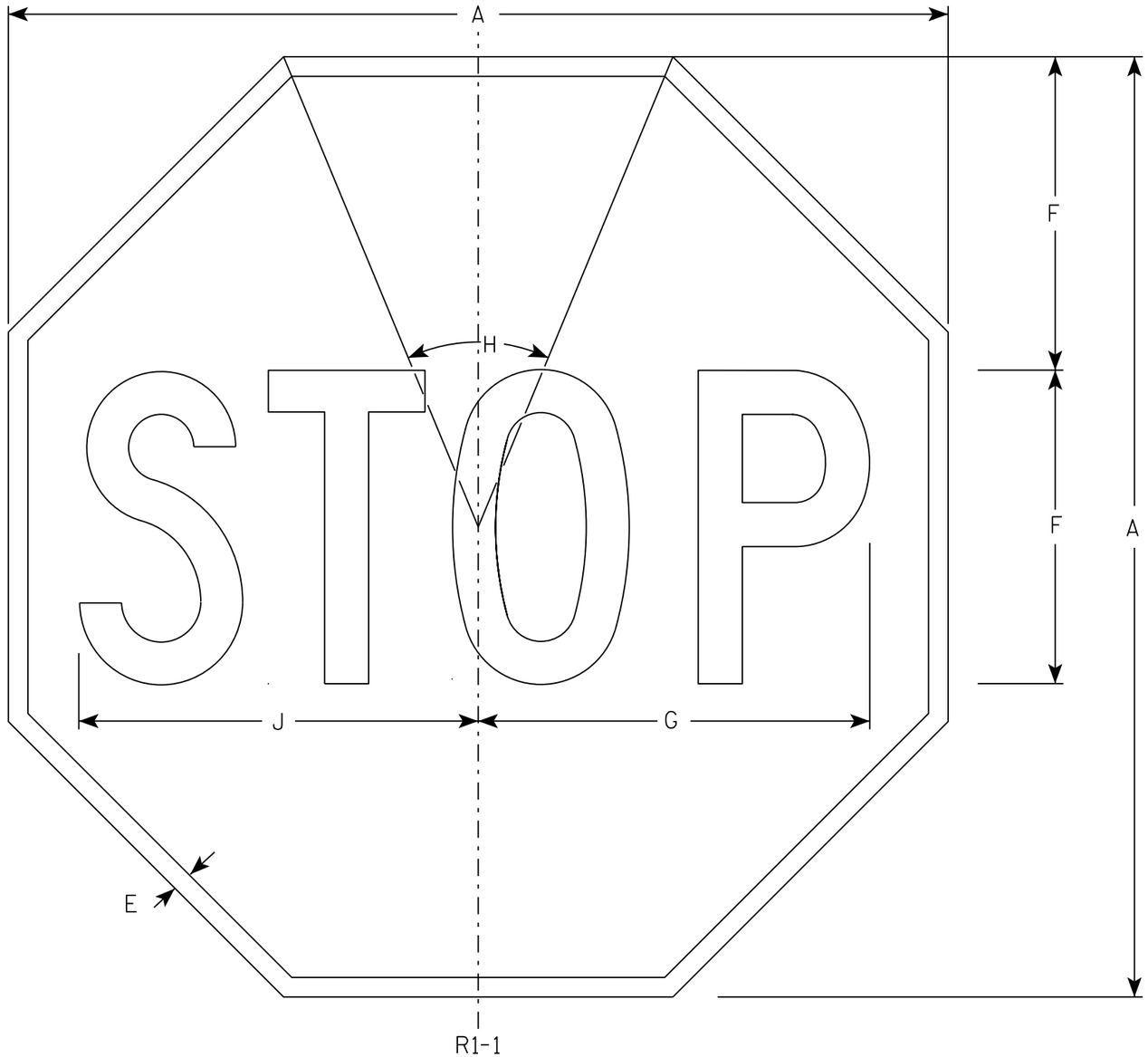
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE 808 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

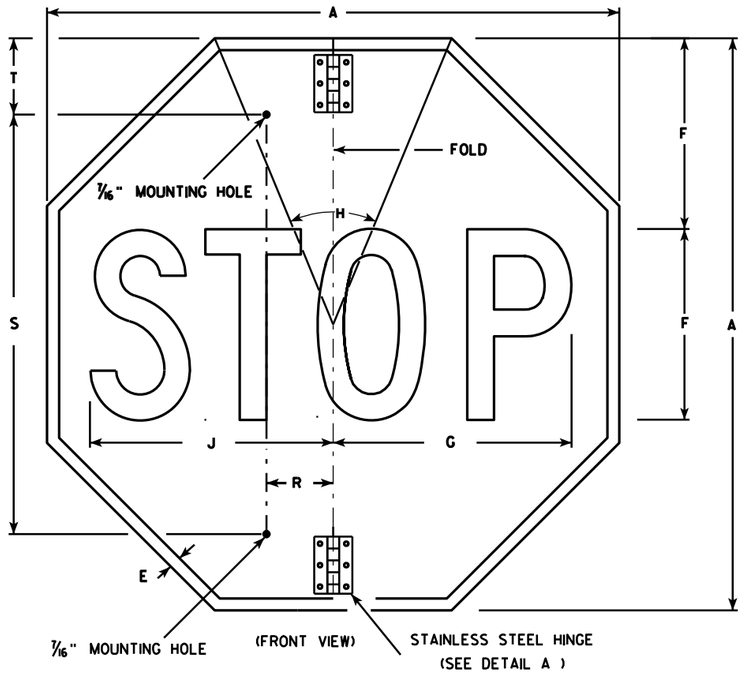
WISCONSIN DEPT OF TRANSPORTATION

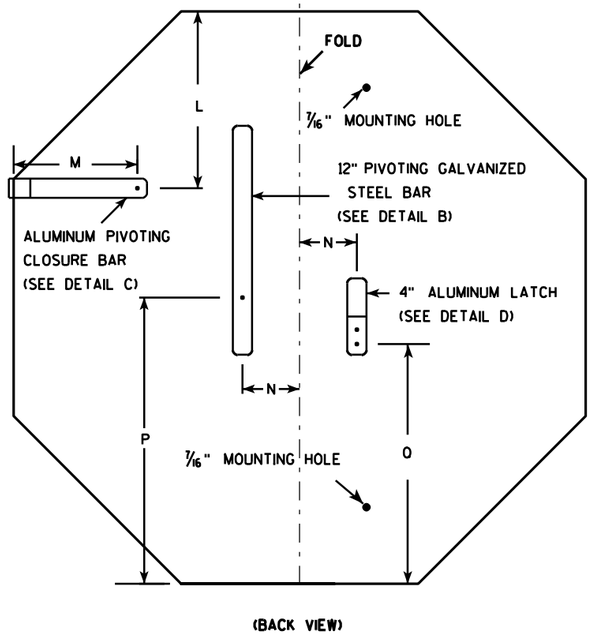
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 809 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

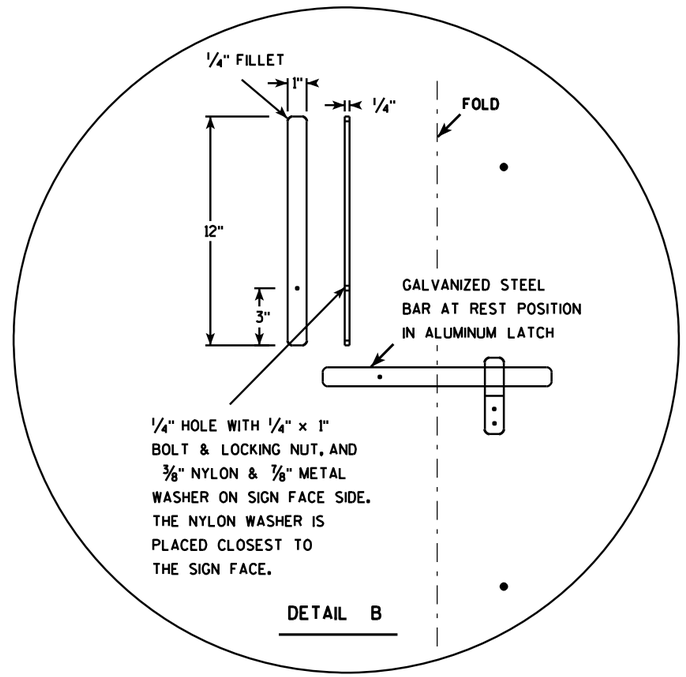
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



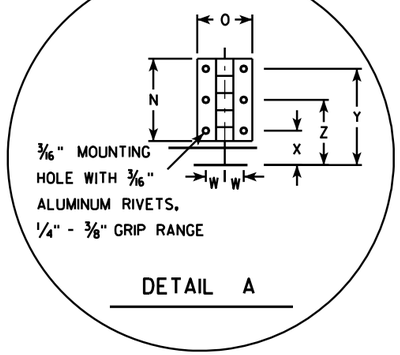


NOTES

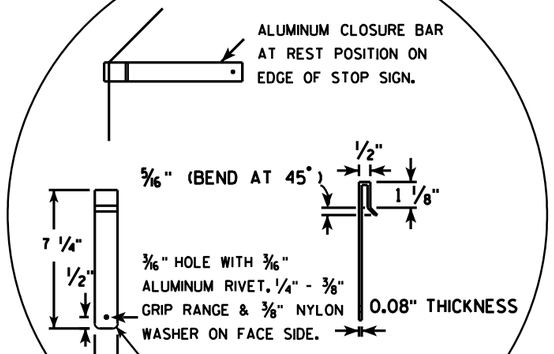
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



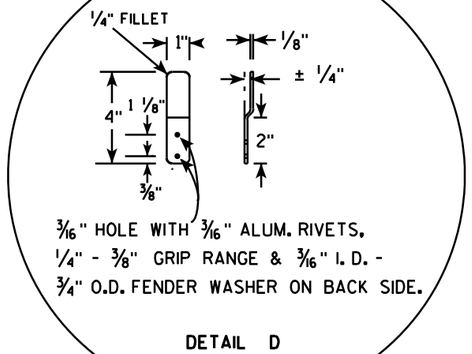
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

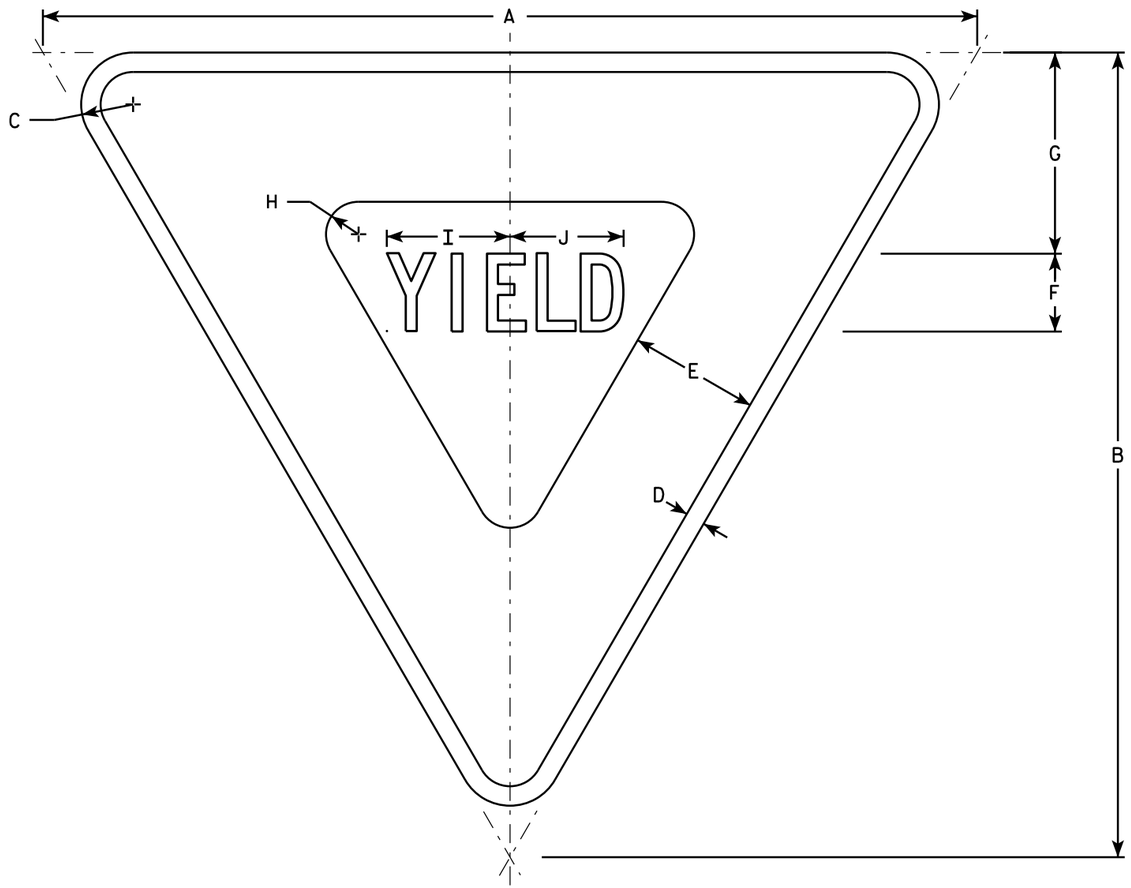
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 810 | E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

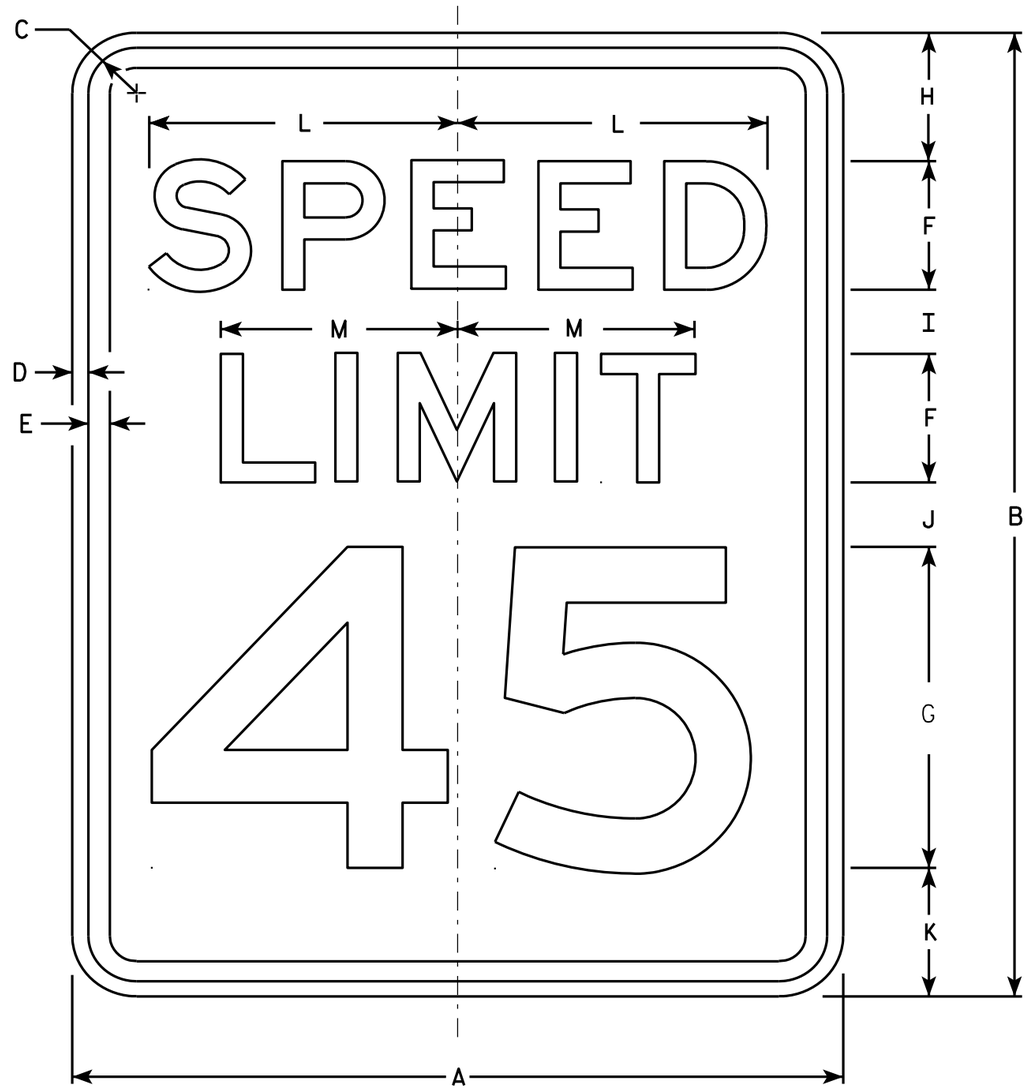
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE P1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

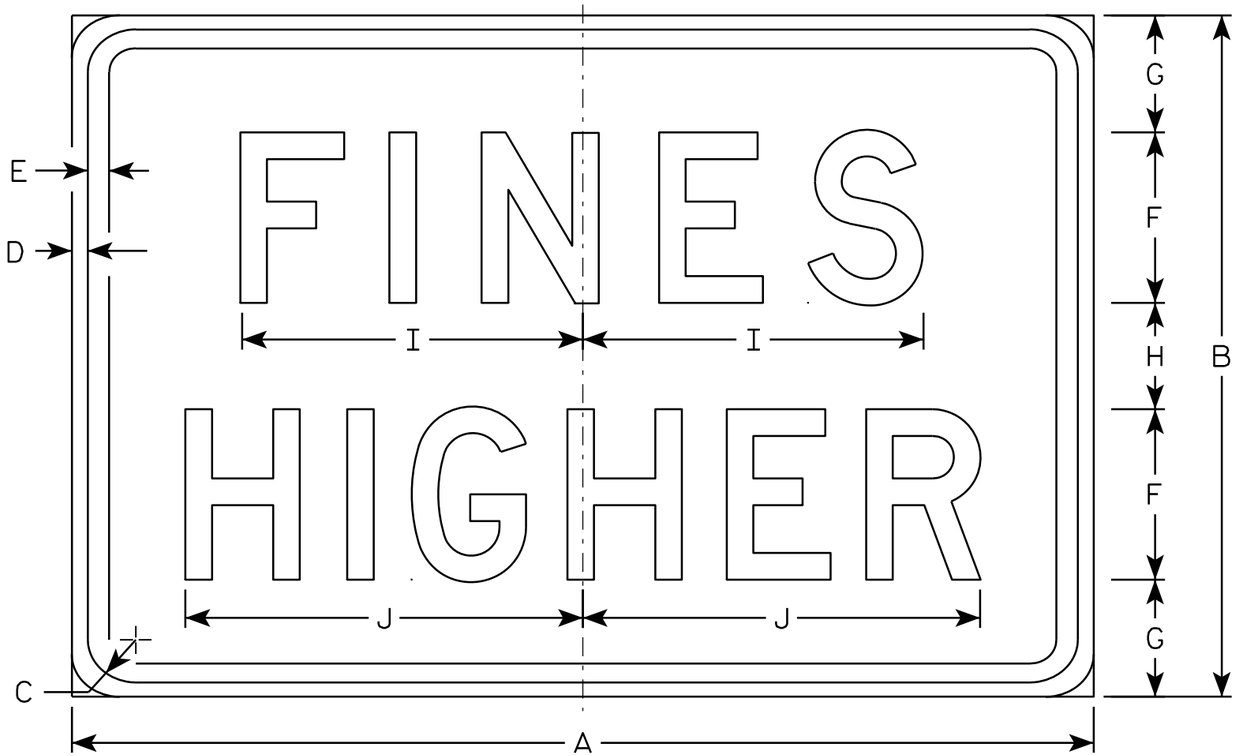
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 812	E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

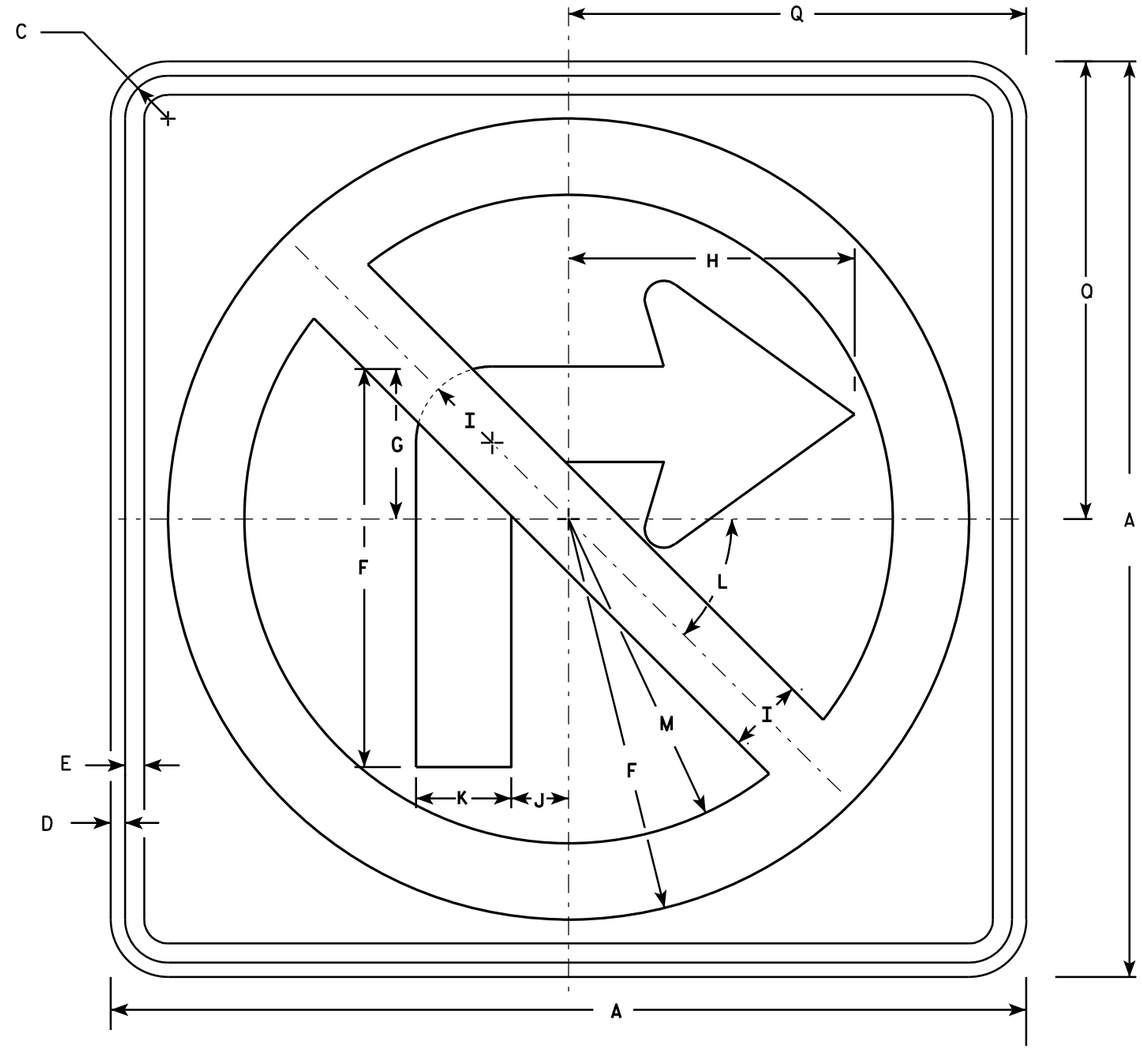
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 813 | E

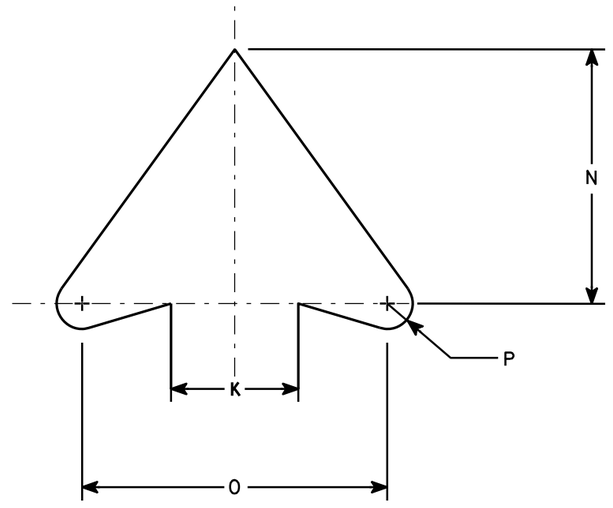
7



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

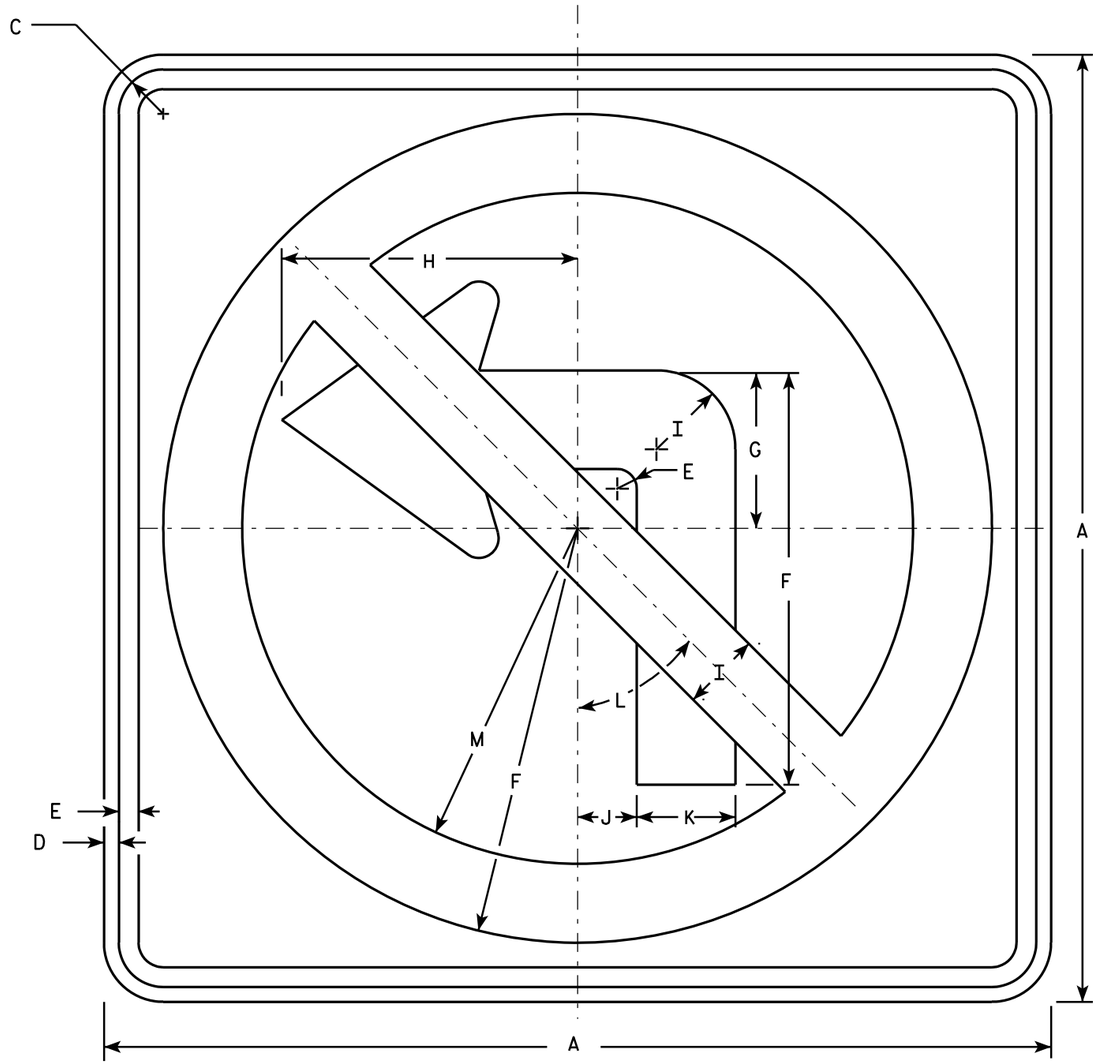
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

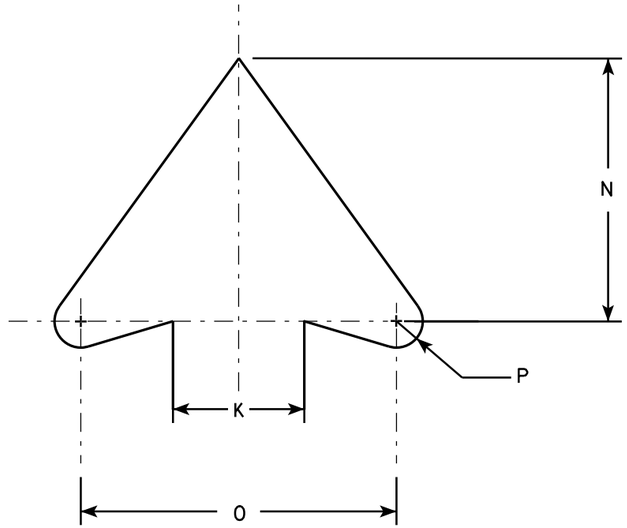
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 814	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

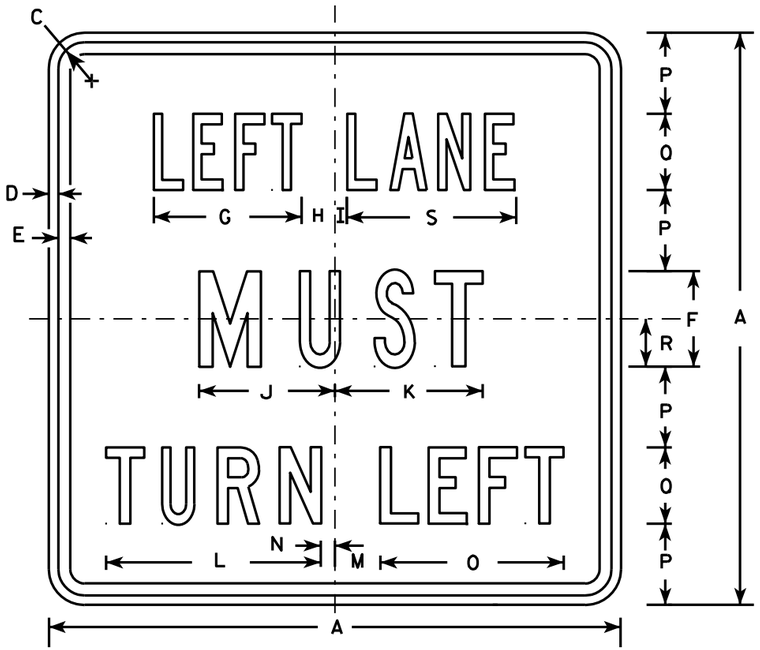
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

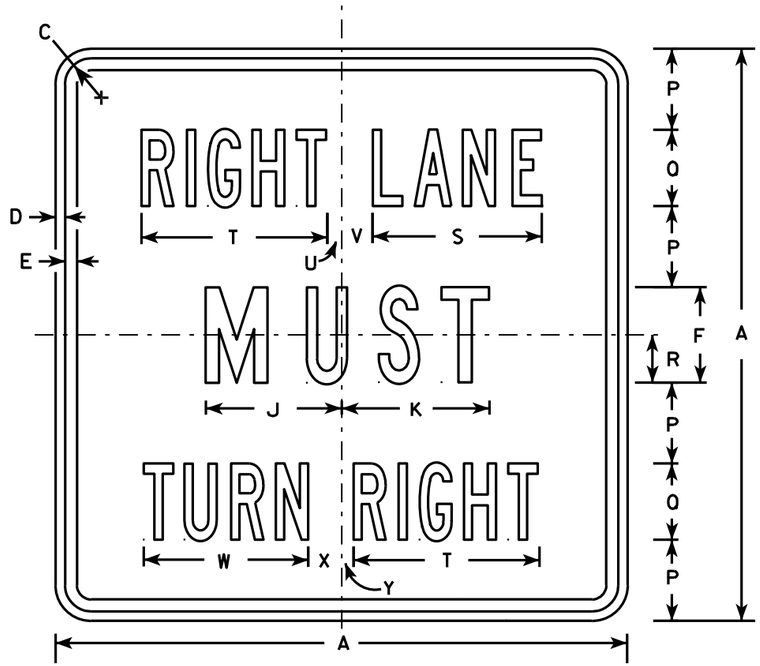
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 815	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

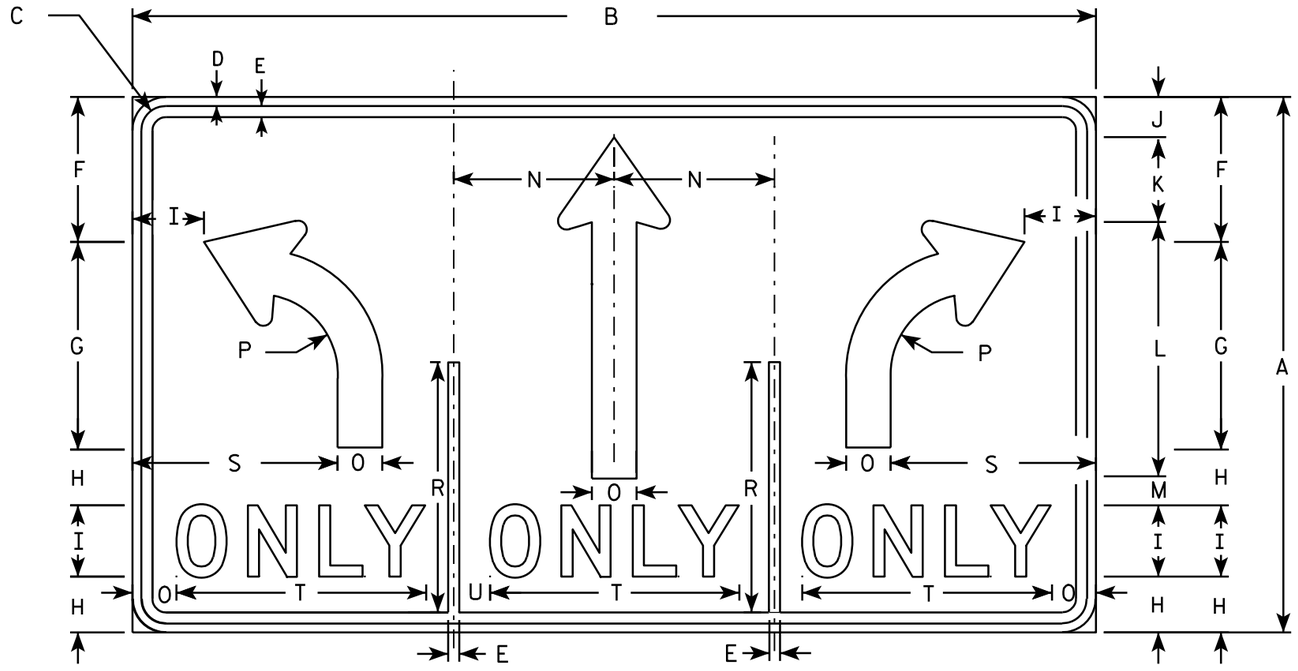
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

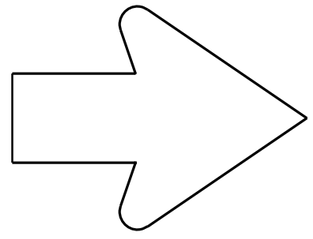
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 816 | E



R3-8W

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 7/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8W

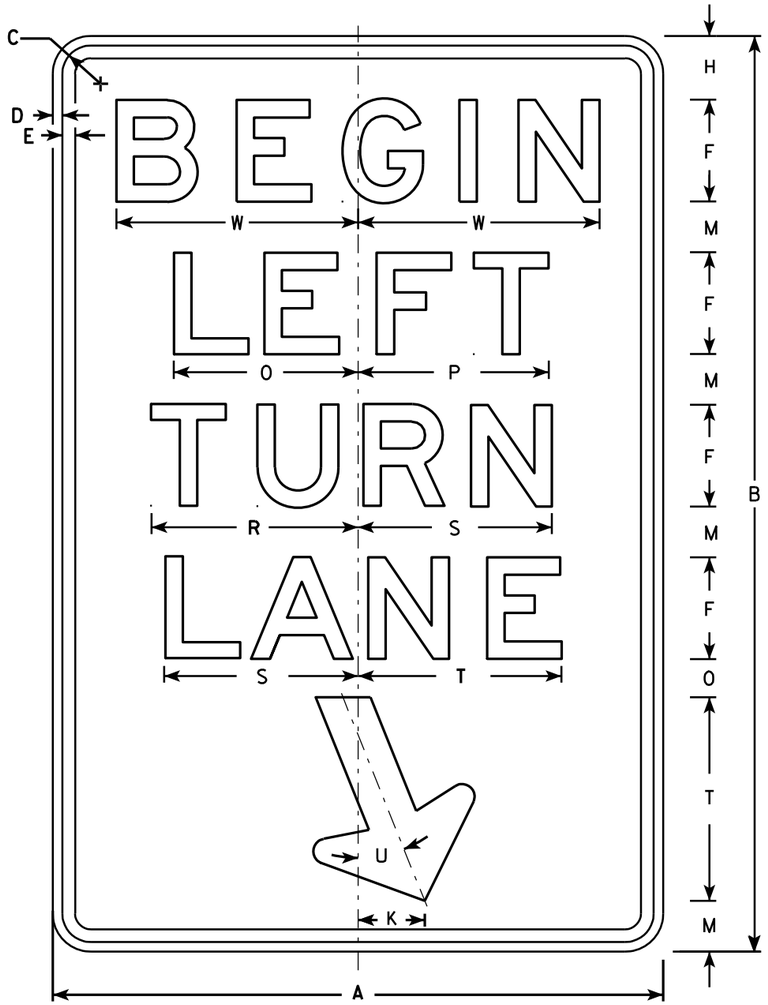
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

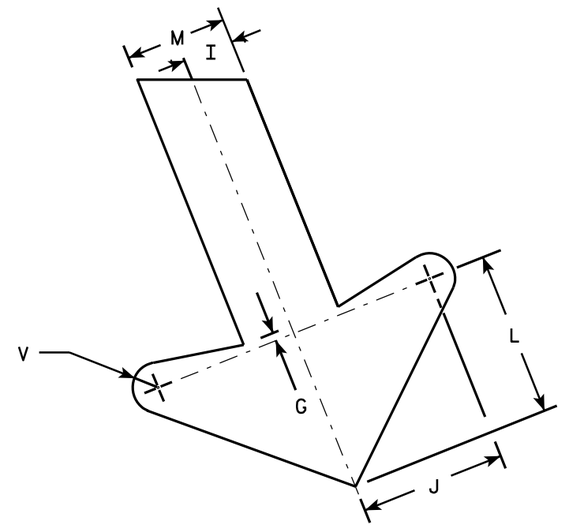
SHEET NO: 817 E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

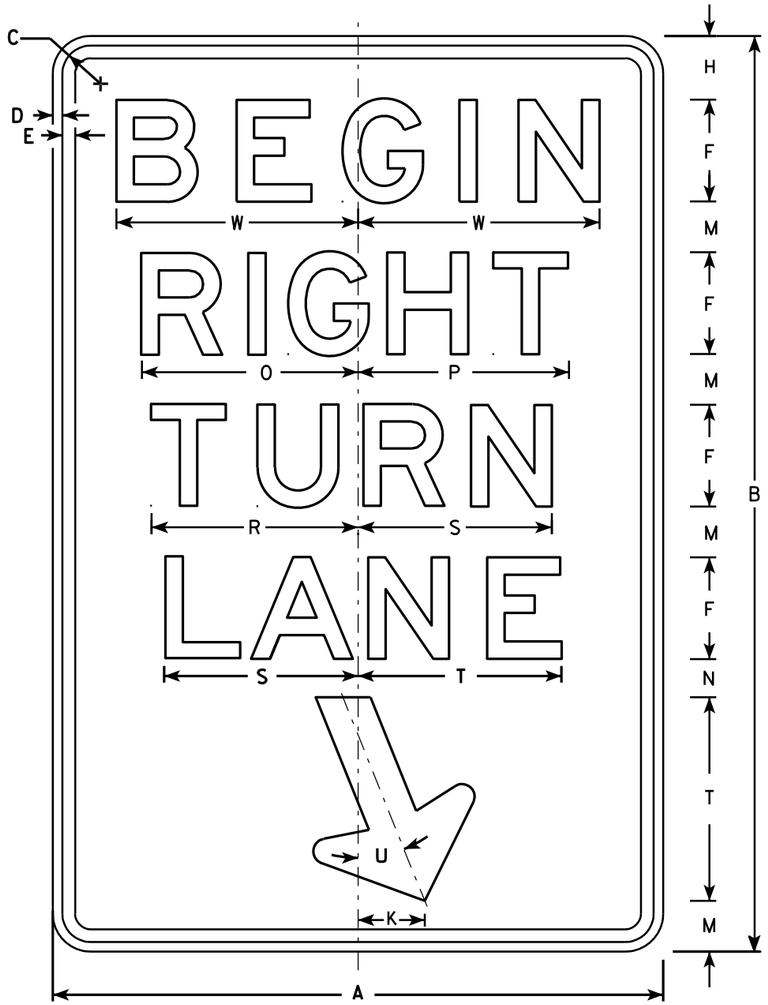
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

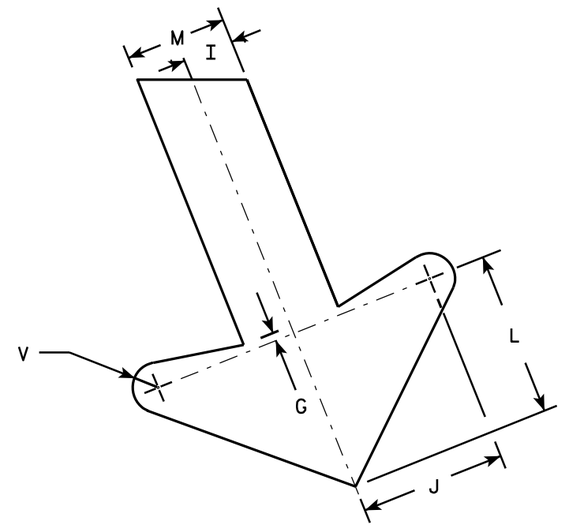
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 818 | E



R3-20RR

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

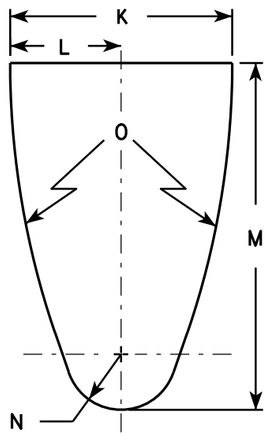
STANDARD SIGN
R3-20RR

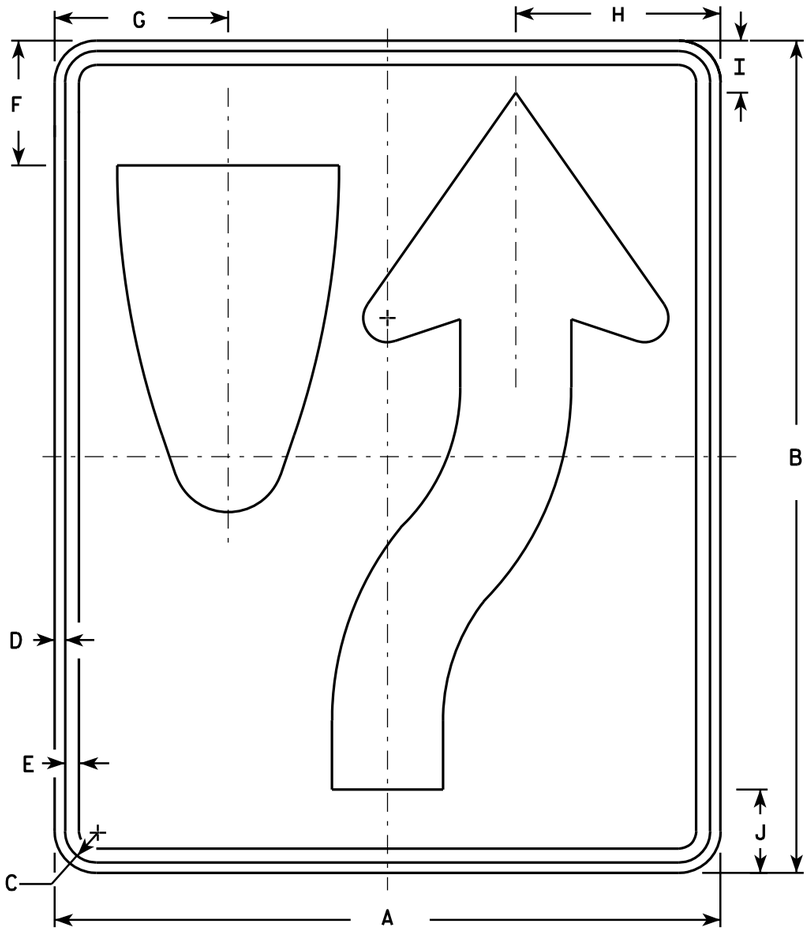
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20RR.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 819 | E

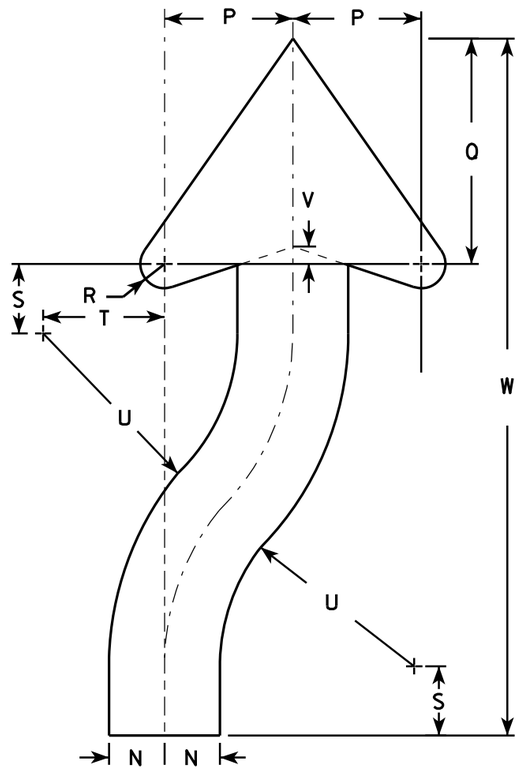




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

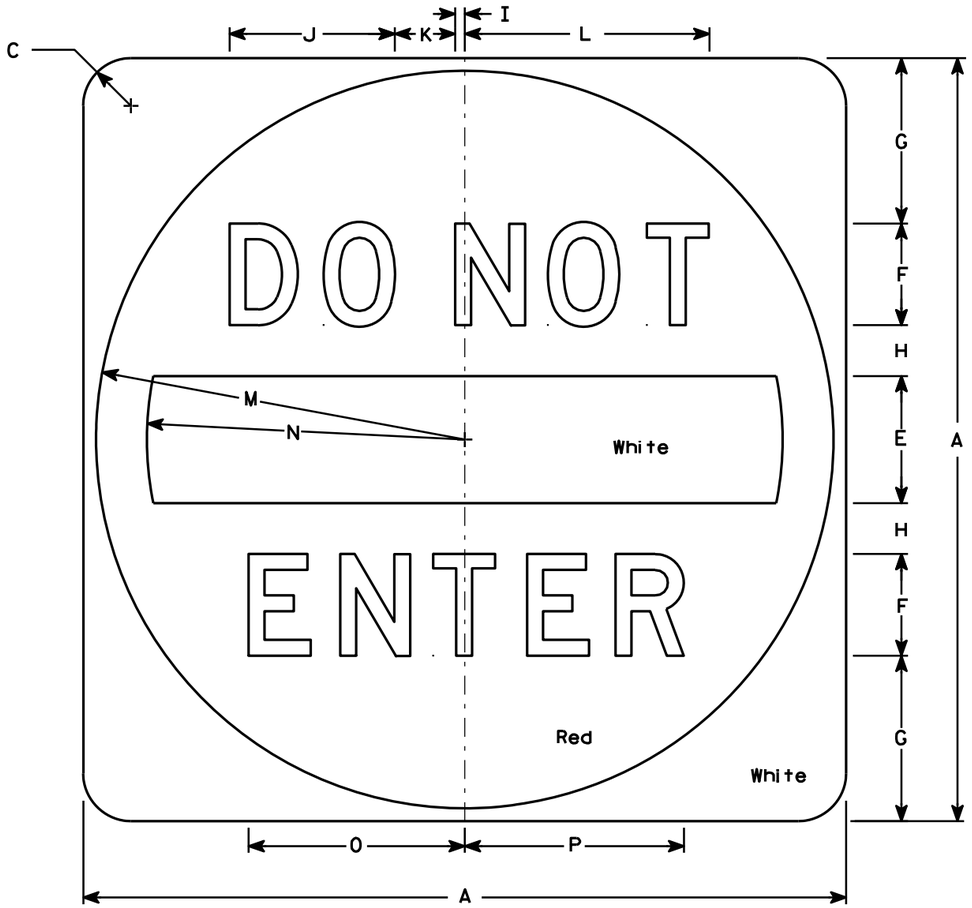
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 820	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

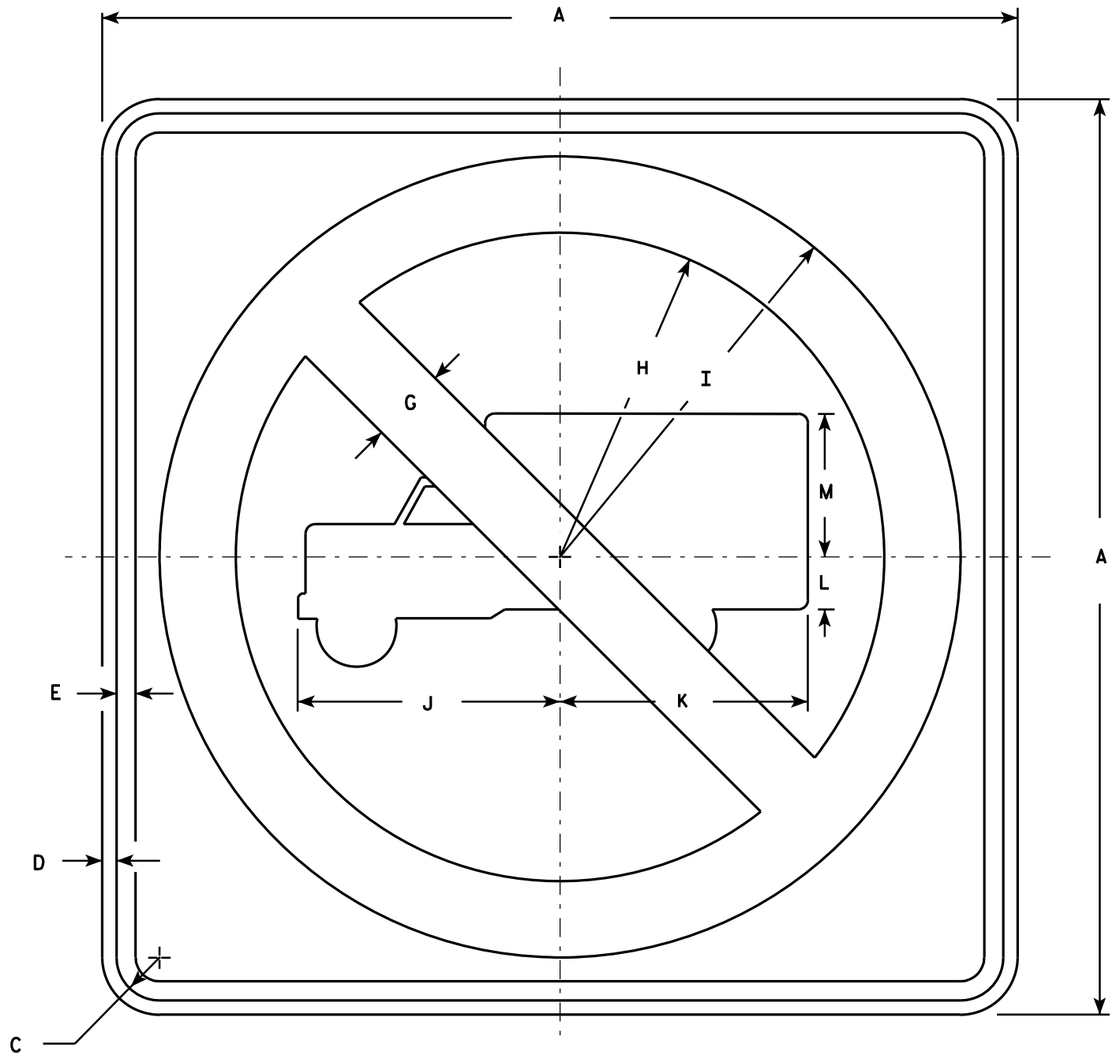
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 821 | E



R5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

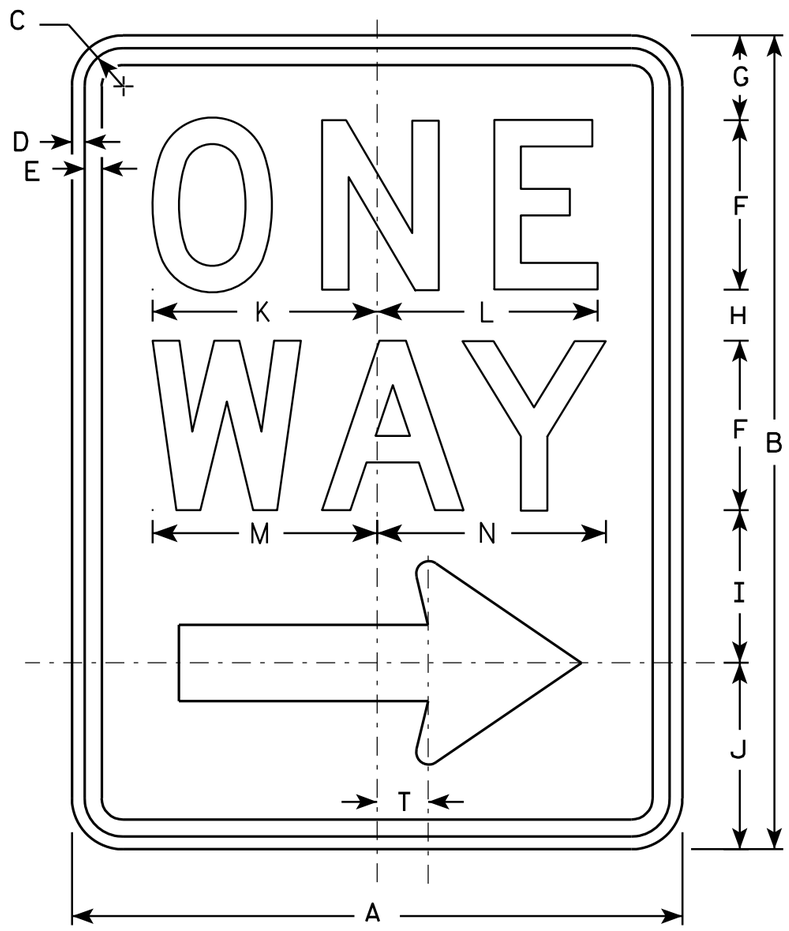
STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

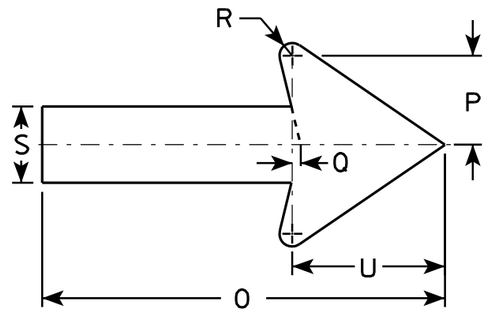
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 822	E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

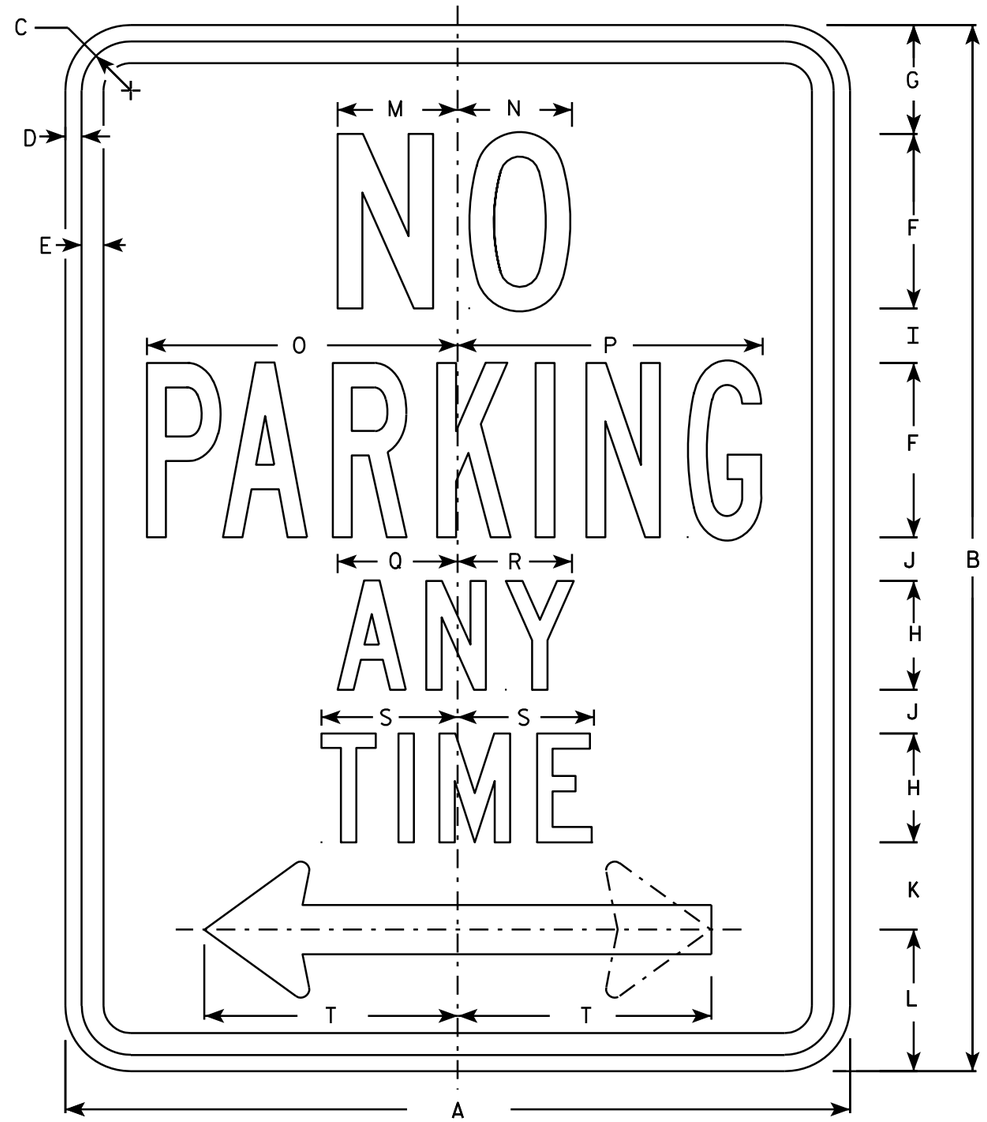
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

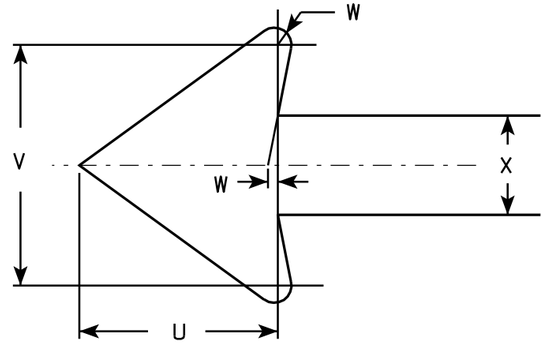
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 823	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 824 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42

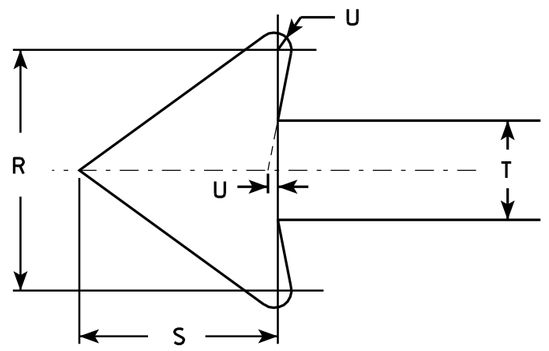


R7-2

*- See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 7
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
   R7-2L (left arrow)
   R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8						1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
4																											
5																											

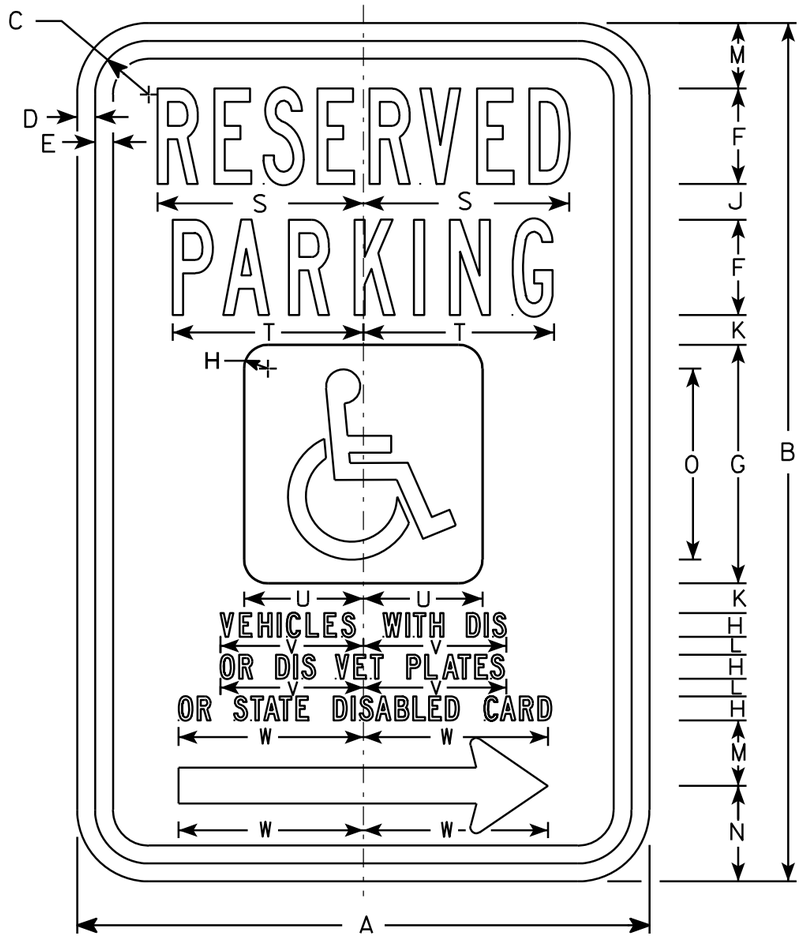
STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-2.9

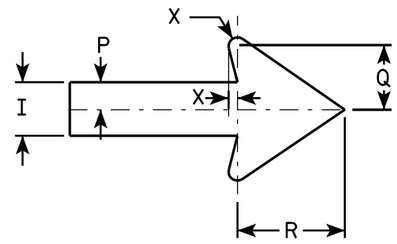
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 825	E



R7-8R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Sign is white Type H Reflective; paraplegic background is blue.
   Message - Legend and border are green; paraplegic symbol is white
3. Message Series - Lines 1 & 2 are Series B
   Lines 3, 4, 5 & 6 are Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-8R (RIGHT ARROW)
   R7-8L (LEFT ARROW)



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	18	1 1/8	3/8	3/8	2	5	1/2	3/4	3/4	5/8	3/8	1 3/8	2	4	3/8	7/8	1 1/2	4 3/8	4	2 1/2	3	3 7/8	3/16			1.5
2M	18	24	1 1/8	3/8	1/2	3	6	3/4	1 1/8	7/8	5/8	1/2	1 7/8	2 7/8	5	5/8	1 3/8	2 1/4	6 1/2	5 3/8	3	4 1/2	5 7/8	1/8			3.0
3	18	24	1 1/8	3/8	1/2	3	6	3/4	1 1/8	7/8	5/8	1/2	1 7/8	2 7/8	5	5/8	1 3/8	2 1/4	6 1/2	5 3/8	3	4 1/2	5 7/8	1/8			3.0
4																											
5																											

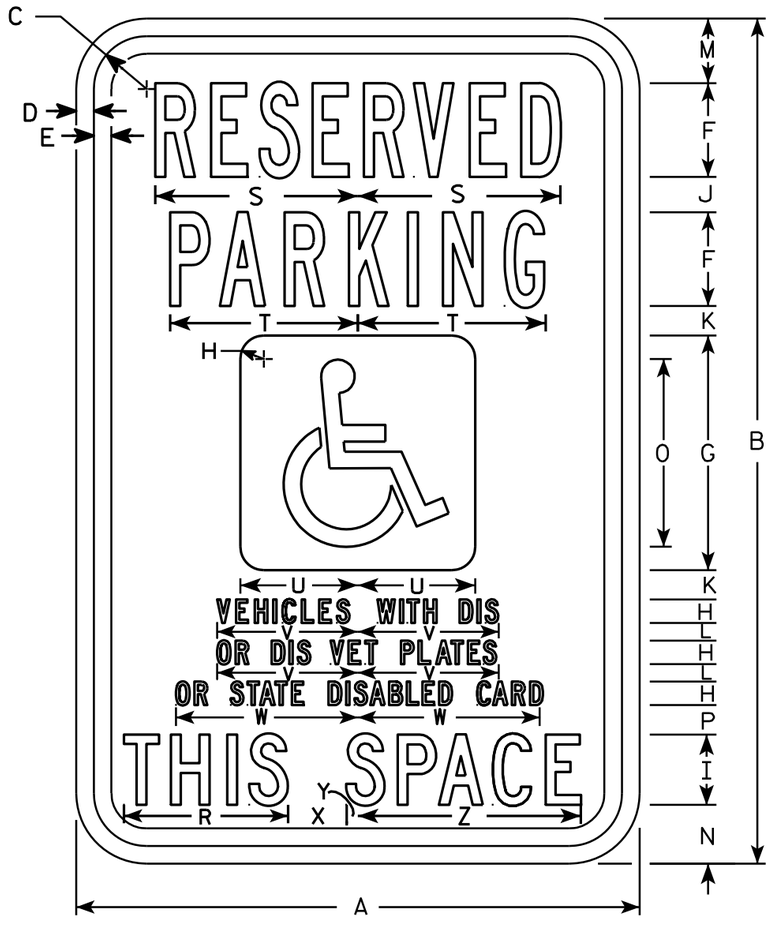
STANDARD SIGN
R7-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-8.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 826	E



R7-8A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Sign is white Type H Reflective; paraplegic background is blue.
   Message - Legend and border are green; paraplegic symbol is white
3. Message Series - Lines 1 & 2 are Series B
   Lines 3, 4, 5 & 6 are Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	18	1 1/8	3/8	3/8	2	5	1/2	1 1/2	3/4	5/8	3/8	1 3/8	1 1/4	4	5/8		3 1/2	4 3/8	4	2 1/2	3	3 7/8	1 1/4	1/4	4 3/4	1.5
2M	18	24	1 1/8	3/8	1/2	3	6	3/4	2	7/8	5/8	1/2	1 7/8	2	5	3/4		4 5/8	6 1/2	5 3/8	3	4 1/2	5 7/8	1 1/2	1/4	6 3/8	3.0
3	18	24	1 1/8	3/8	1/2	3	6	3/4	2	7/8	5/8	1/2	1 7/8	2	5	3/4		4 5/8	6 1/2	5 3/8	3	4 1/2	5 7/8	1 1/2	1/4	6 3/8	3.0
4																											
5																											

STANDARD SIGN
R7-8A

WISCONSIN DEPT OF TRANSPORTATION

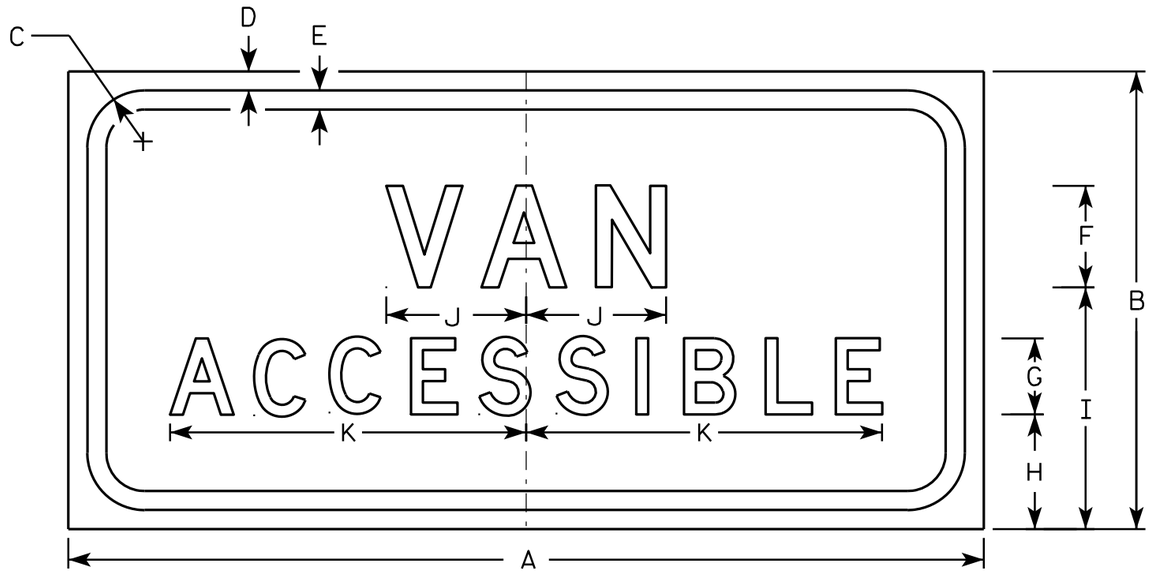
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/25/2011 PLATE NO. R7-8A.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 827 | E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Green - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R7-8V

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	6	1 1/8	3/8	3/8	1 1/2	1	1 5/8	3 1/2	2	4 1/4																0.50
2M	18	9	1 1/8	3/8	3/8	2	1 1/2	2 1/4	4 3/4	2 3/4	7																0.75
3	18	9	1 1/8	3/8	3/8	2	1 1/2	2 1/4	4 3/4	2 3/4	7																0.75
4																											
5																											

STANDARD SIGN
R7-8V

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-8V.5

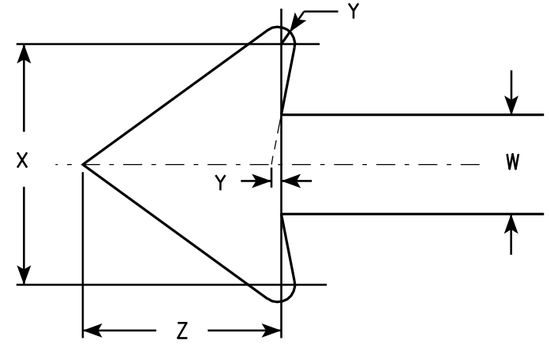
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 828 | E



R7-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

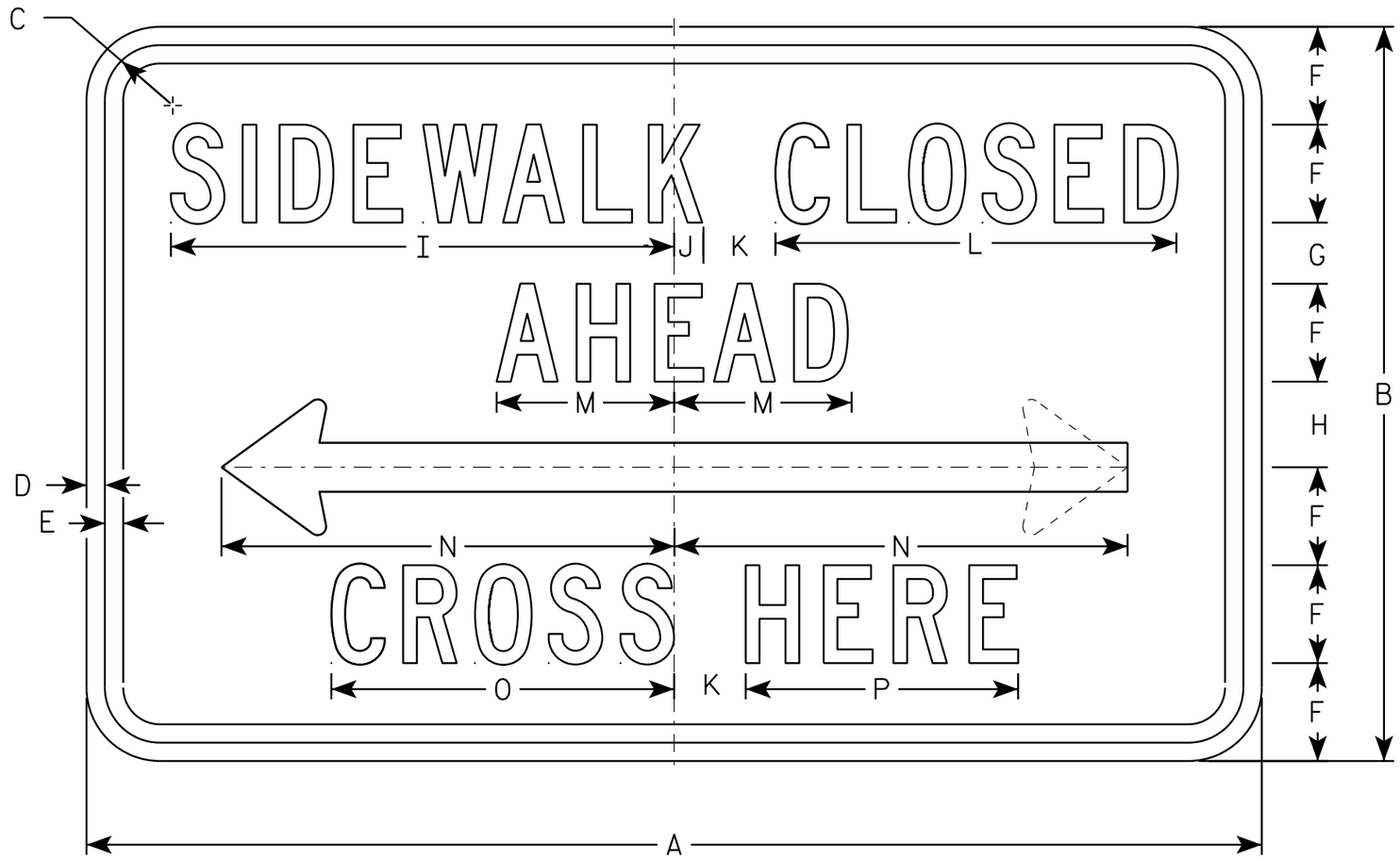
STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

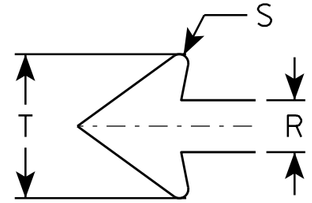
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 829	E



R9-11



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	48	30	2 3/4	3/4	3/4	4	2 1/2	3 1/2	20 1/2	1 1/4	3	16 3/8	7 1/4	18 1/2	14	11 1/8		2	3/8	5 1/2							10.0
4																											
5																											

STANDARD SIGN
R9-11

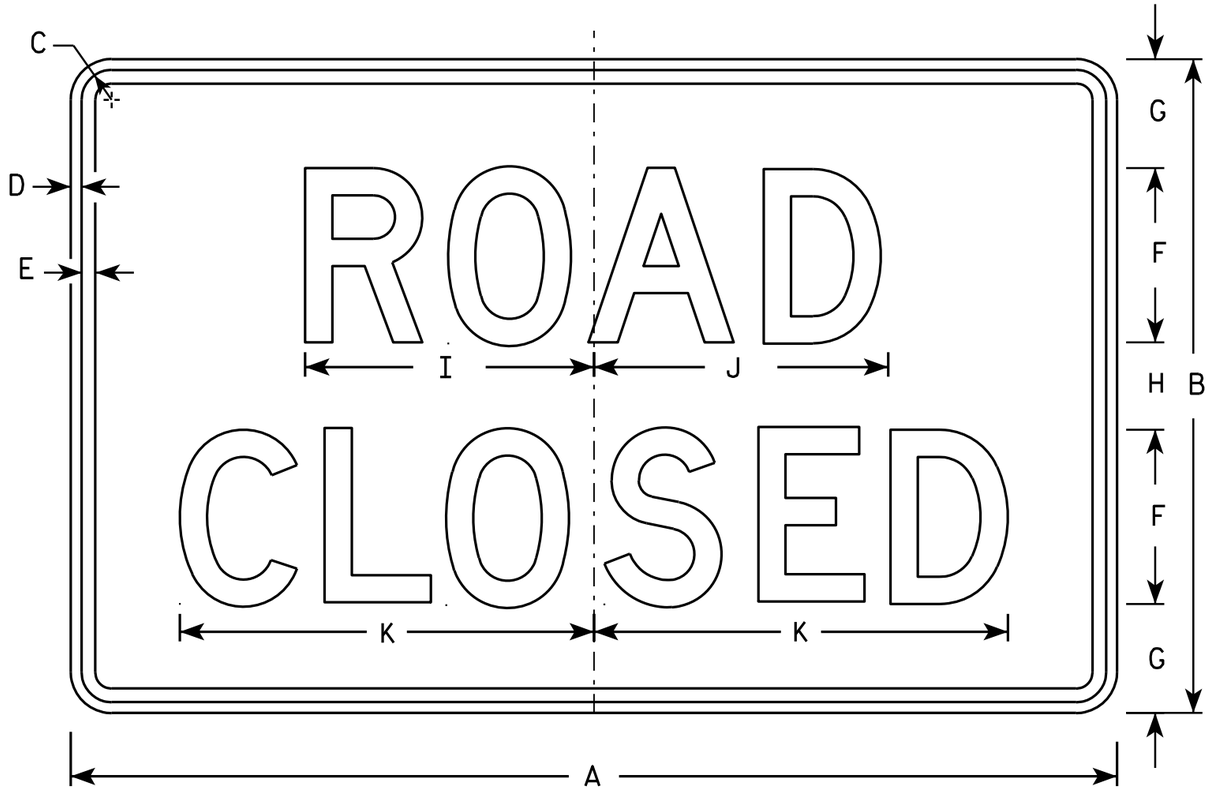
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE No. R9-11.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

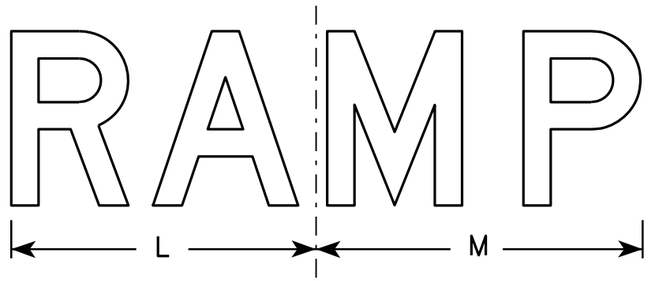
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R911.DGN PLOT DATE : 10-MAR-2016 14:57 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837529:1.000000
WISDOT/CADDS SHEET 42



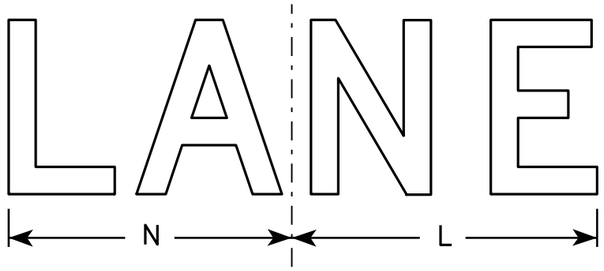
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

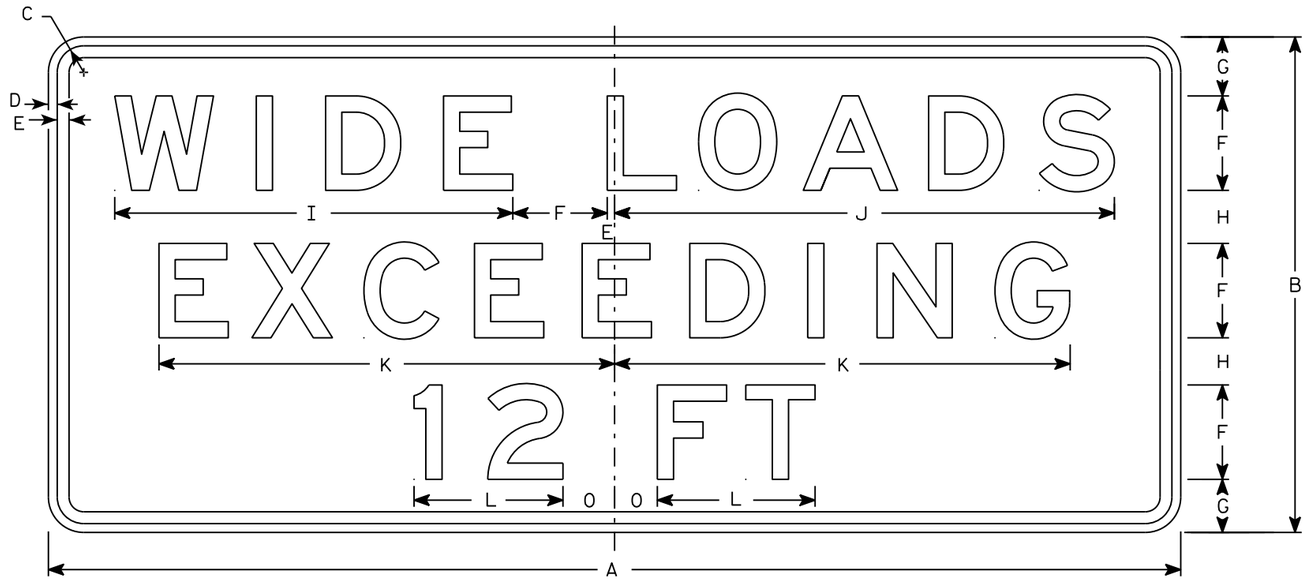
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

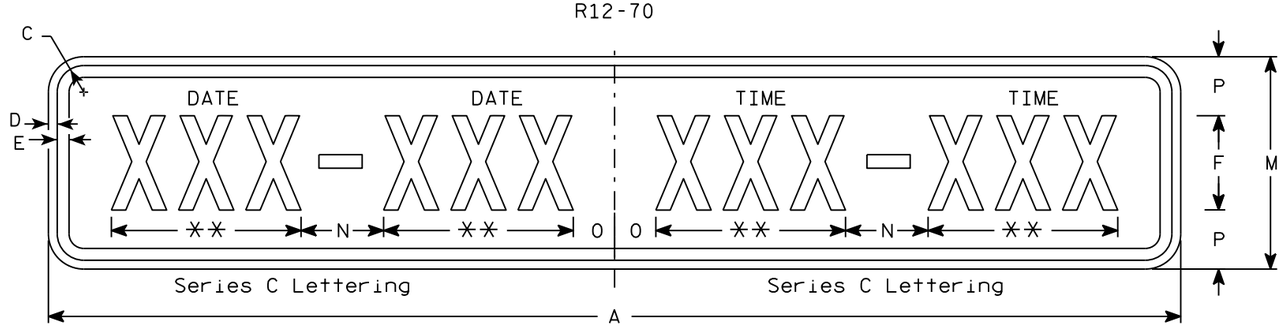
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 831	E



R12-70



R12-70C

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E except as noted
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

** Substitute appropriate message, optically center message

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	66	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	6	3	3											16.5	5.5
2M	66	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	6	3	3											16.5	5.5
3																												
4	96	42	2 1/4	3/4	1	8	5	4	34	42	39	13	18	7	3 1/2	5											36.0	12.0
5	96	42	2 1/4	3/4	1	8	5	4	34	42	39	13	18	7	3 1/2	5											36.0	12.0

TYPICAL SIGN
R12-70

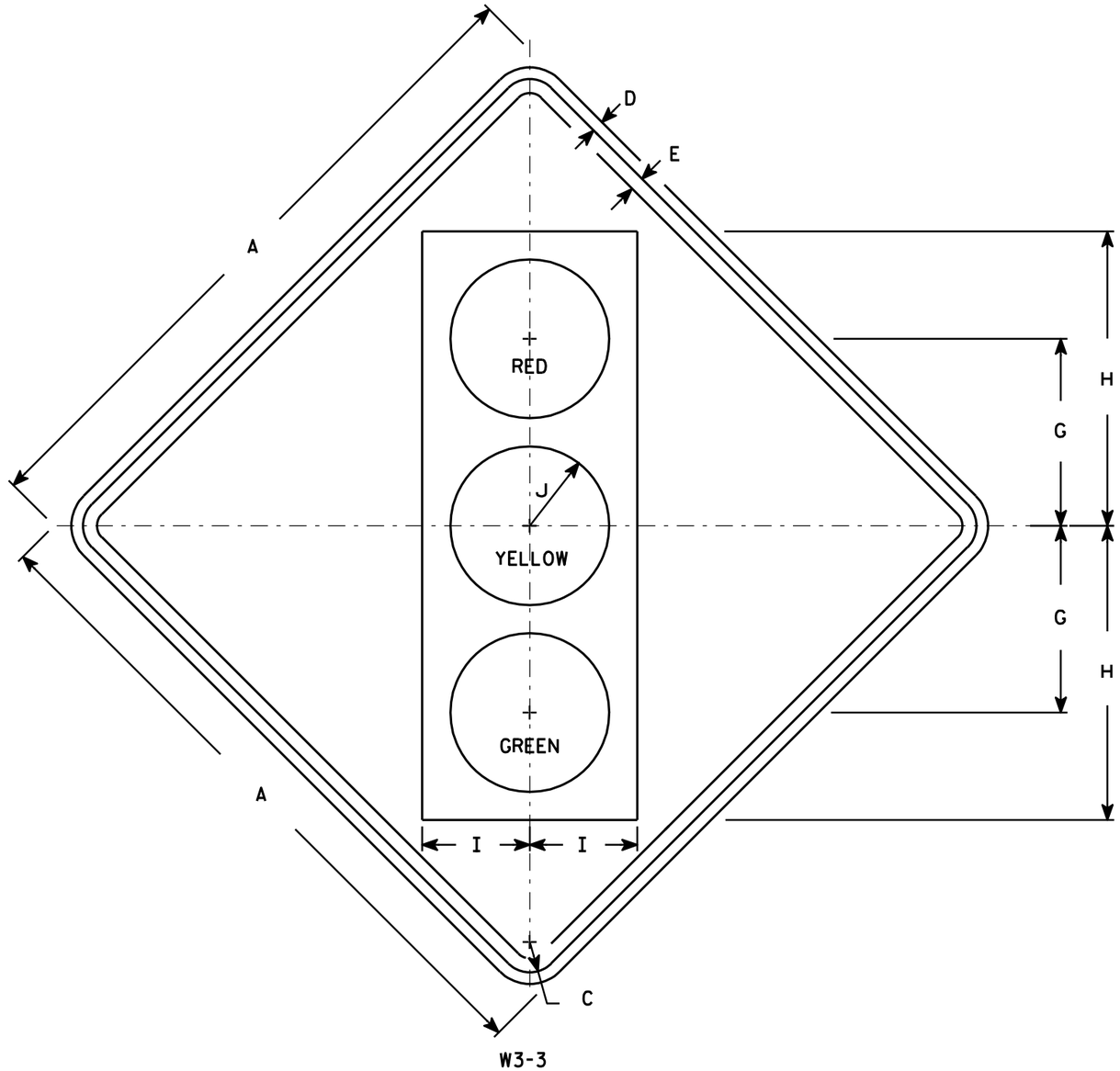
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/5/15 PLATE NO R12-70.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270.DGN PLOT DATE : 01-DEC-2015 18:09 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 12.842555:1.000000



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

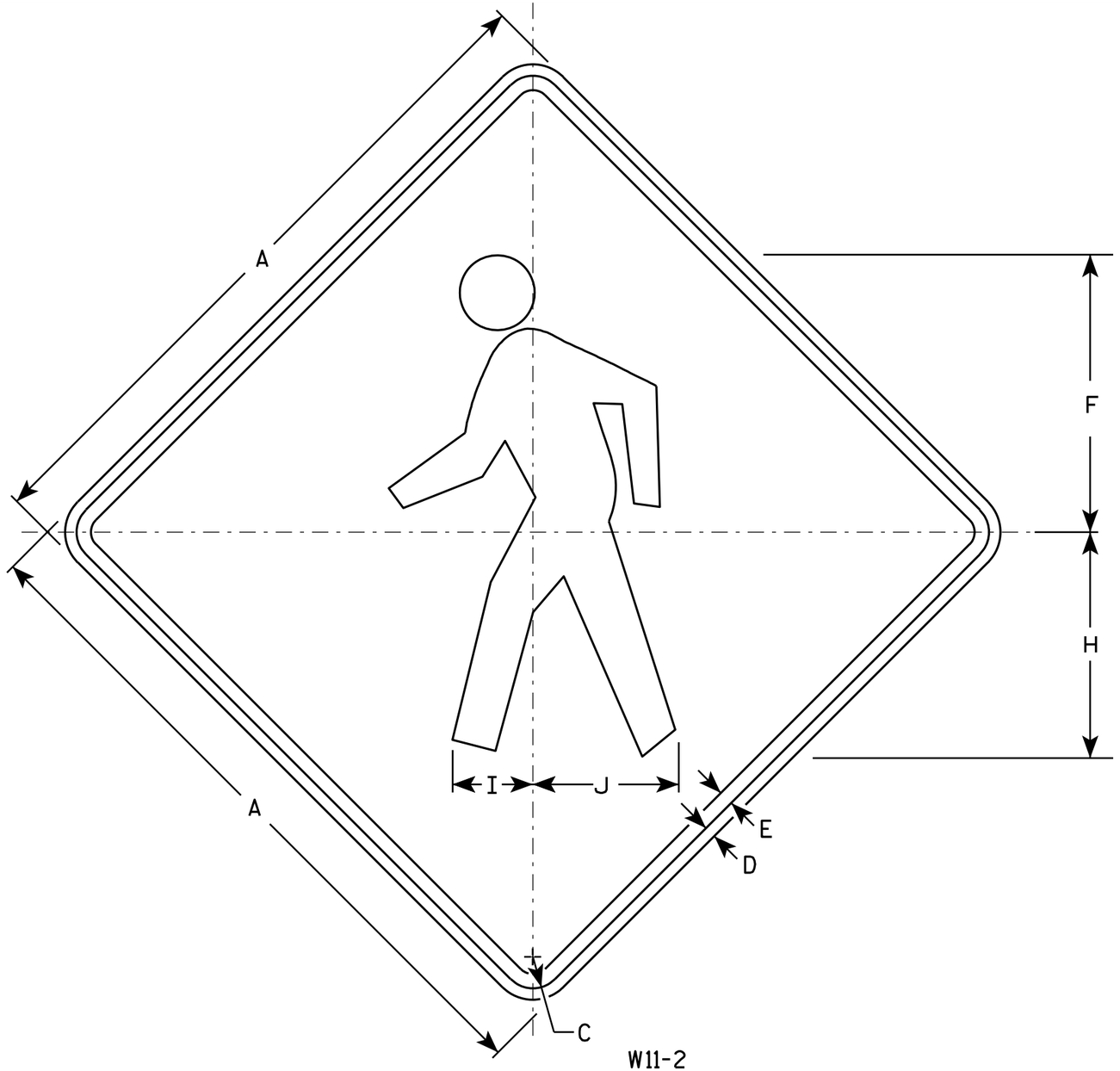
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 833 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000

WISDOT/CADDS SHEET 42

7

7



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

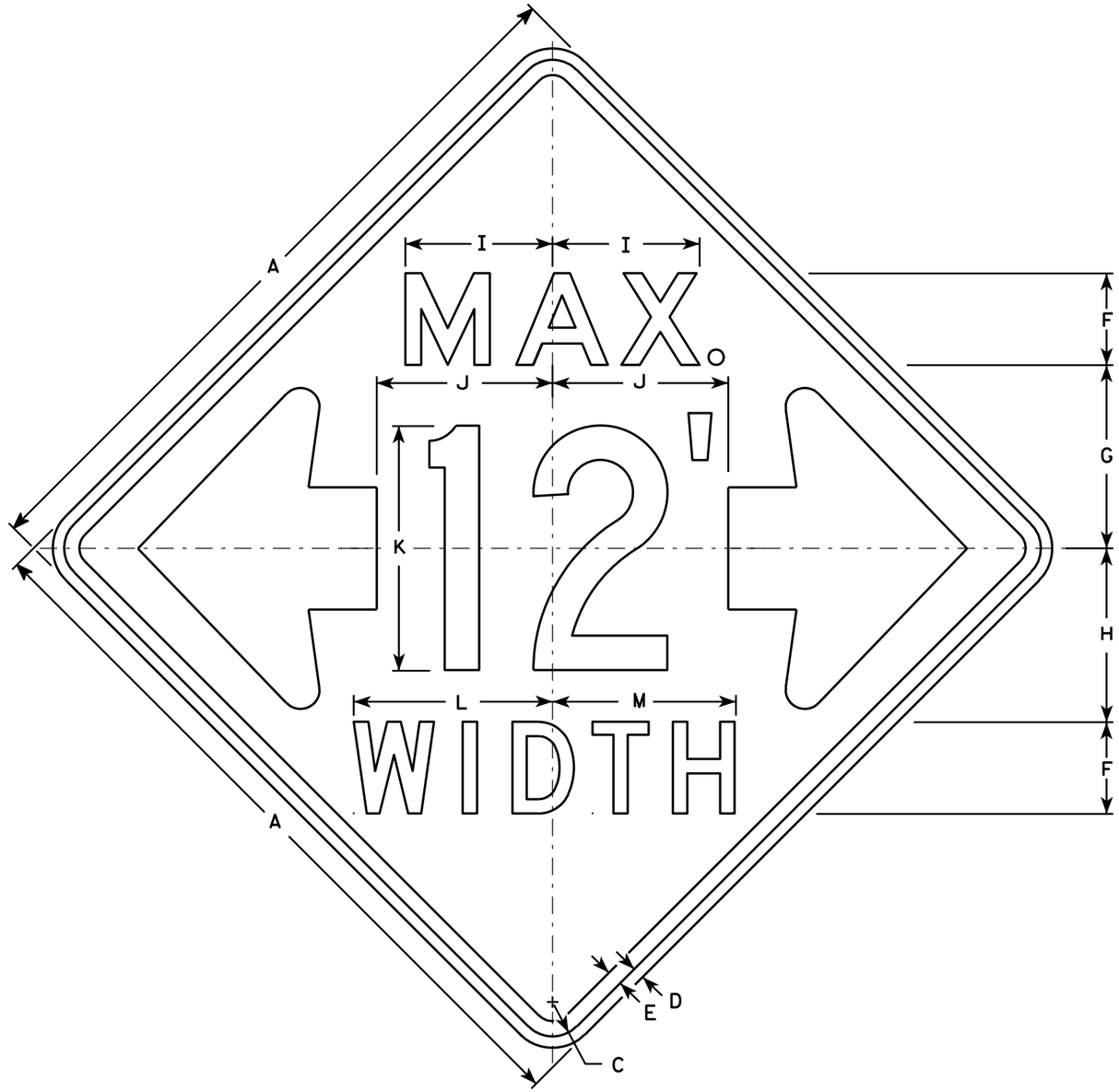
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

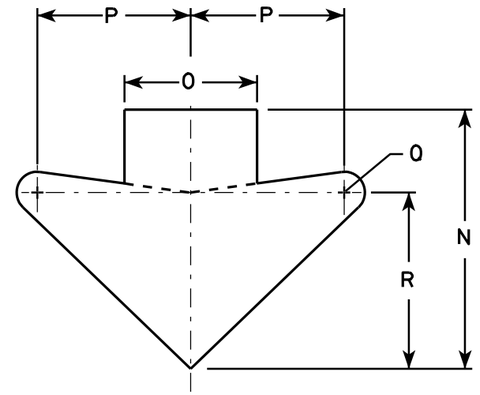
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 834	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

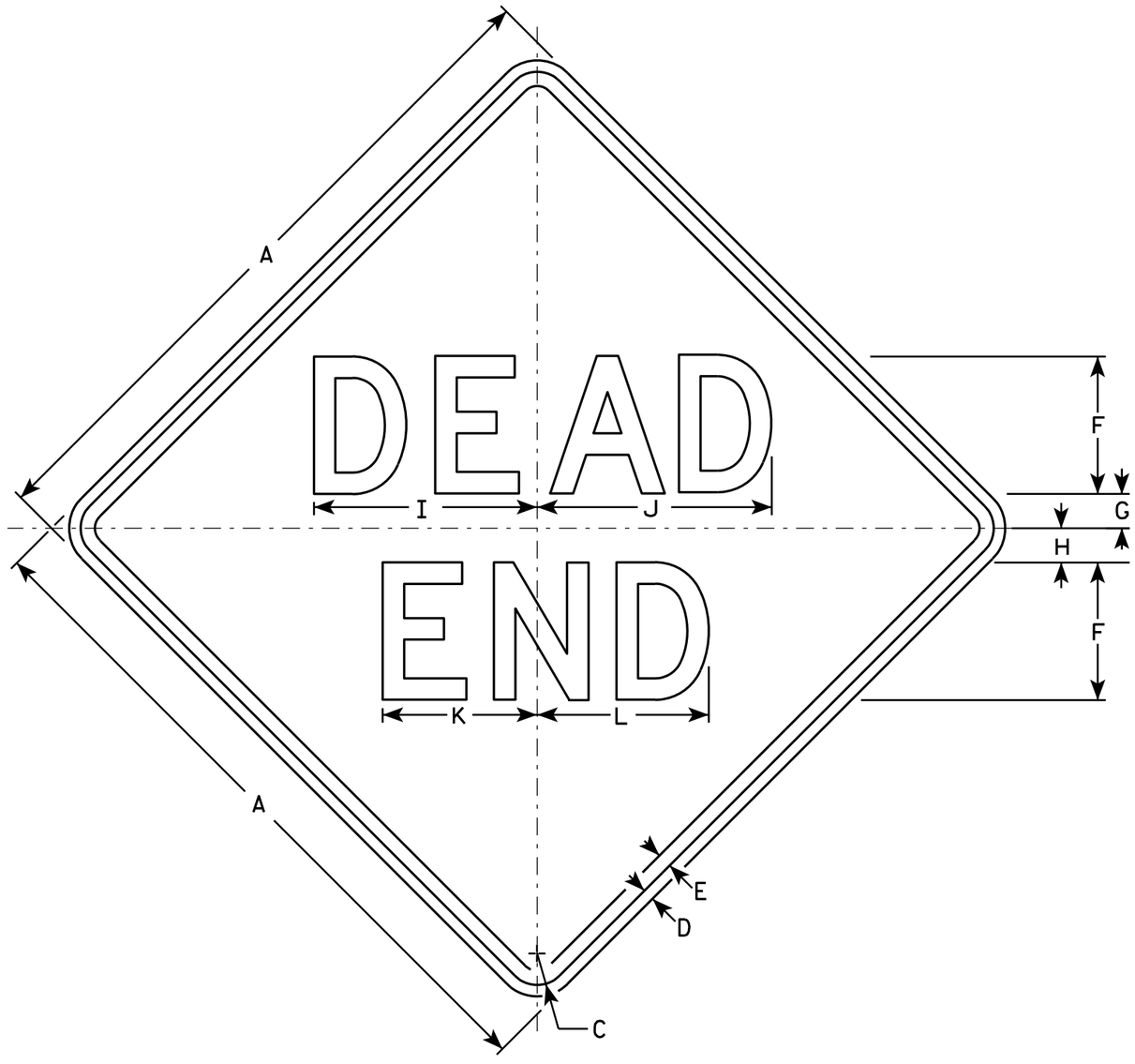
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 835 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

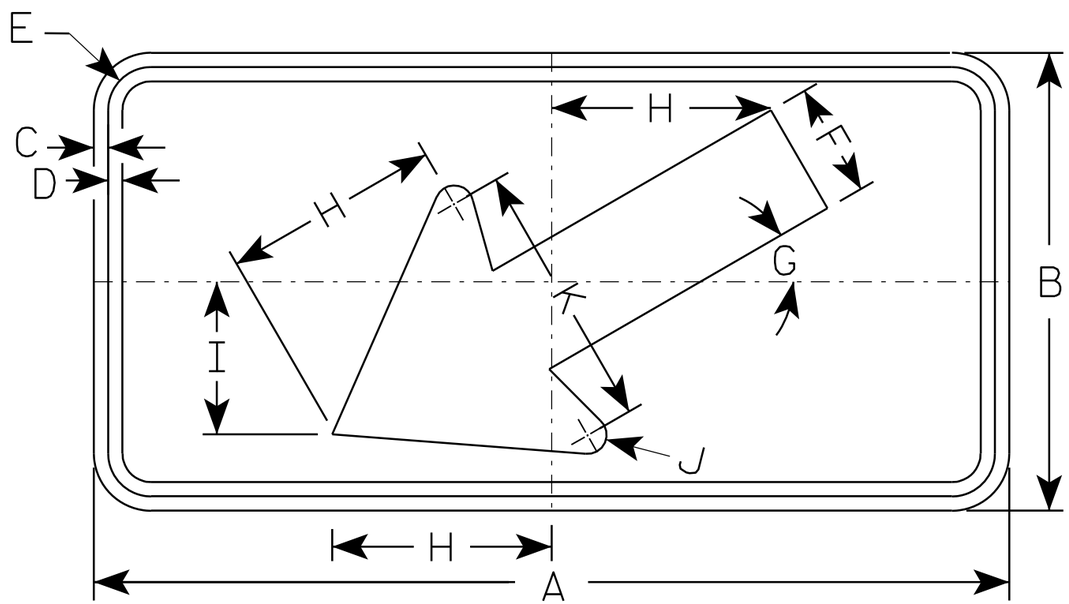
STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 836	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

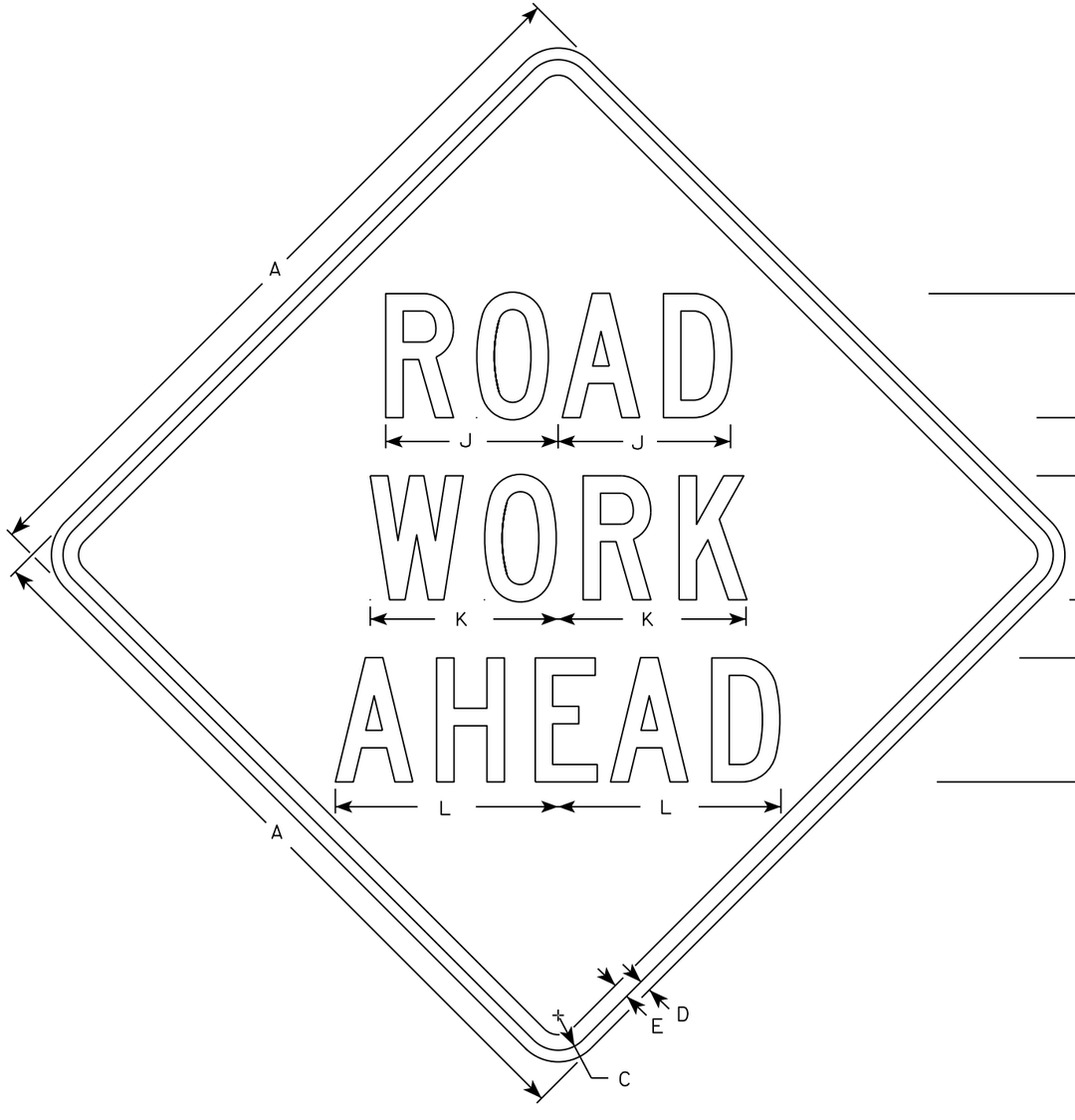
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

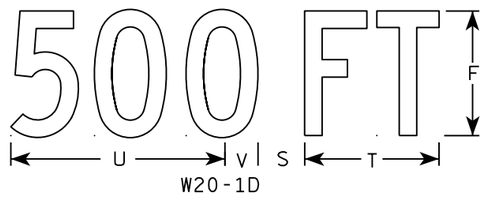
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

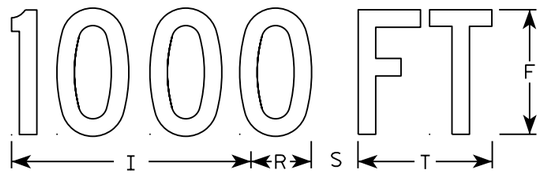
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 837	E



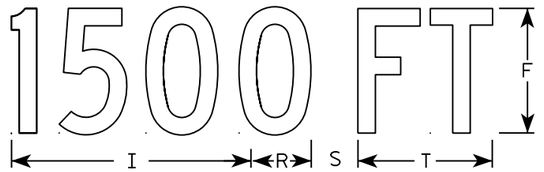
W20-1A



W20-1D



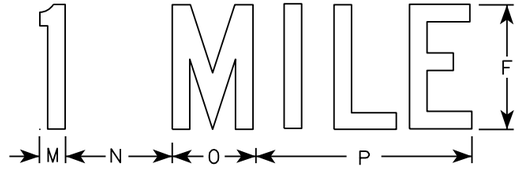
W20-1C



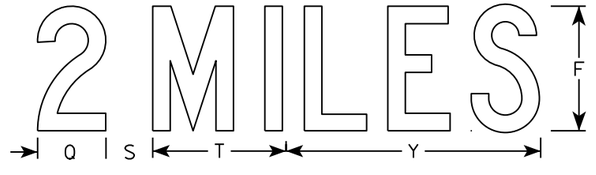
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

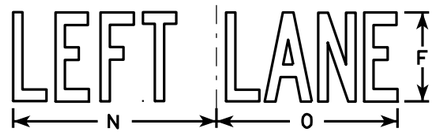
PROJECT NO:

SHEET NO: E

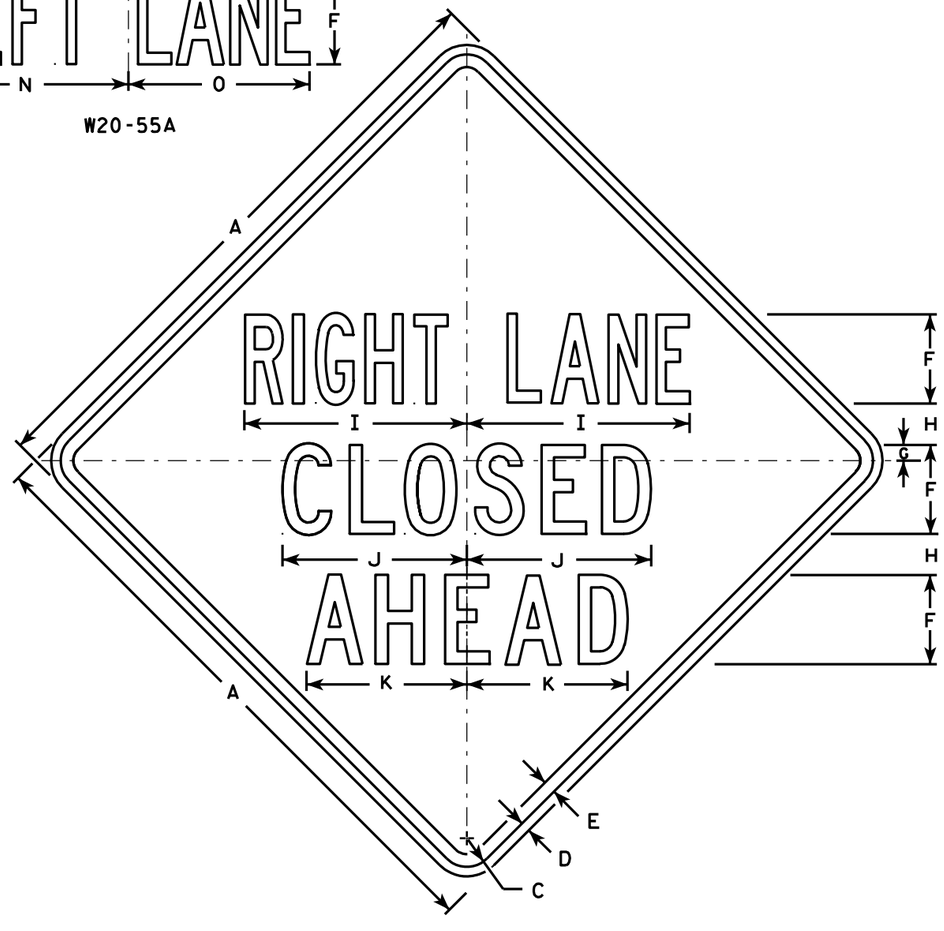
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



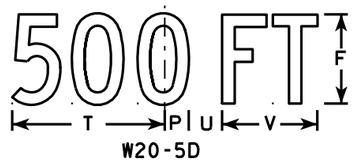
W20-56A



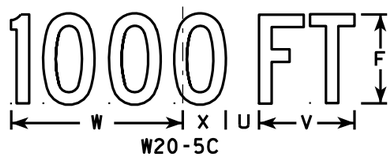
W20-55A



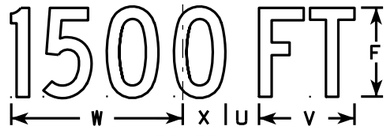
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

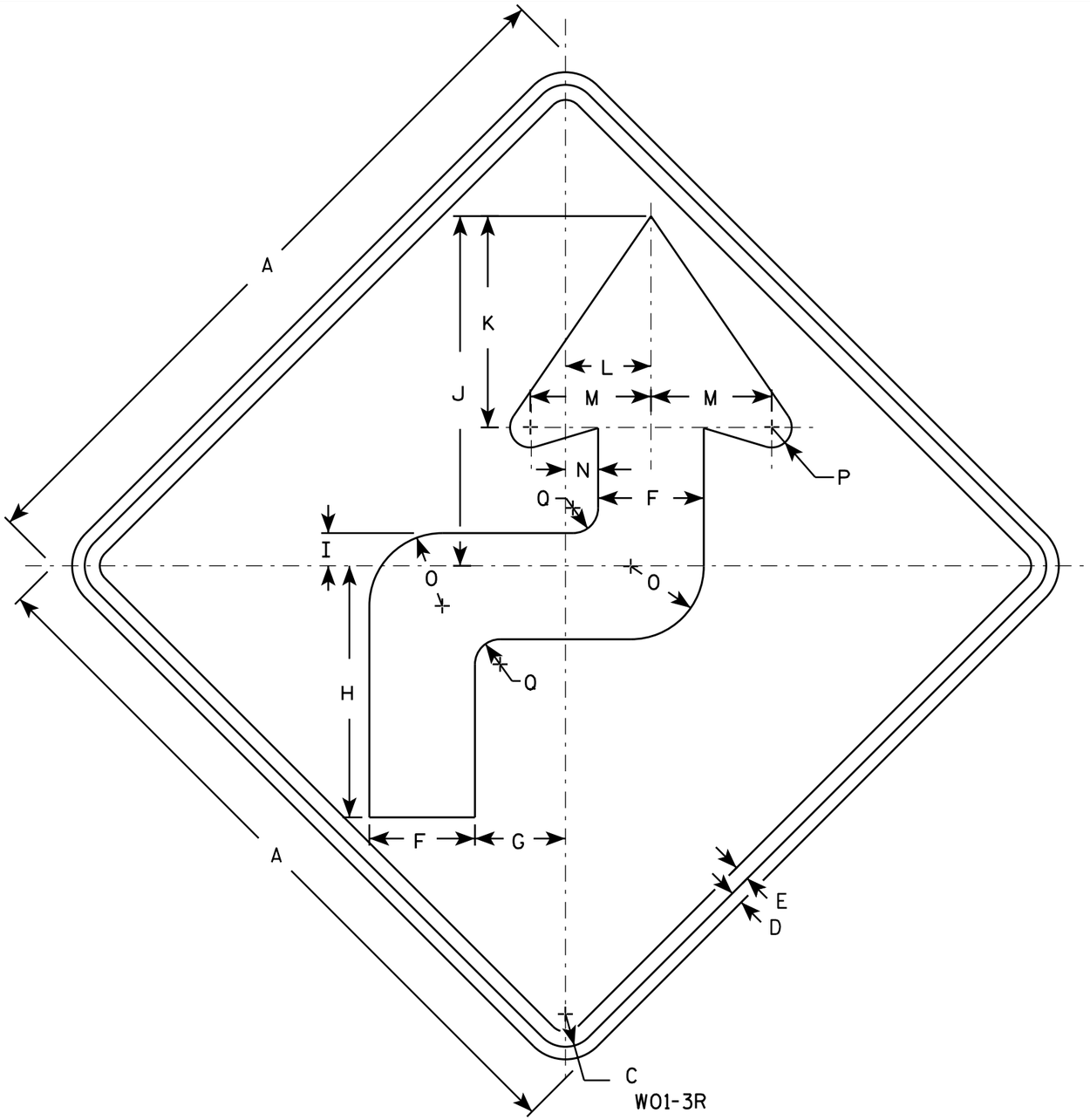
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 839	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-3L is the same as W01-3R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2S	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
2M	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
3	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
4	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
5	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

STANDARD SIGN
W01-3

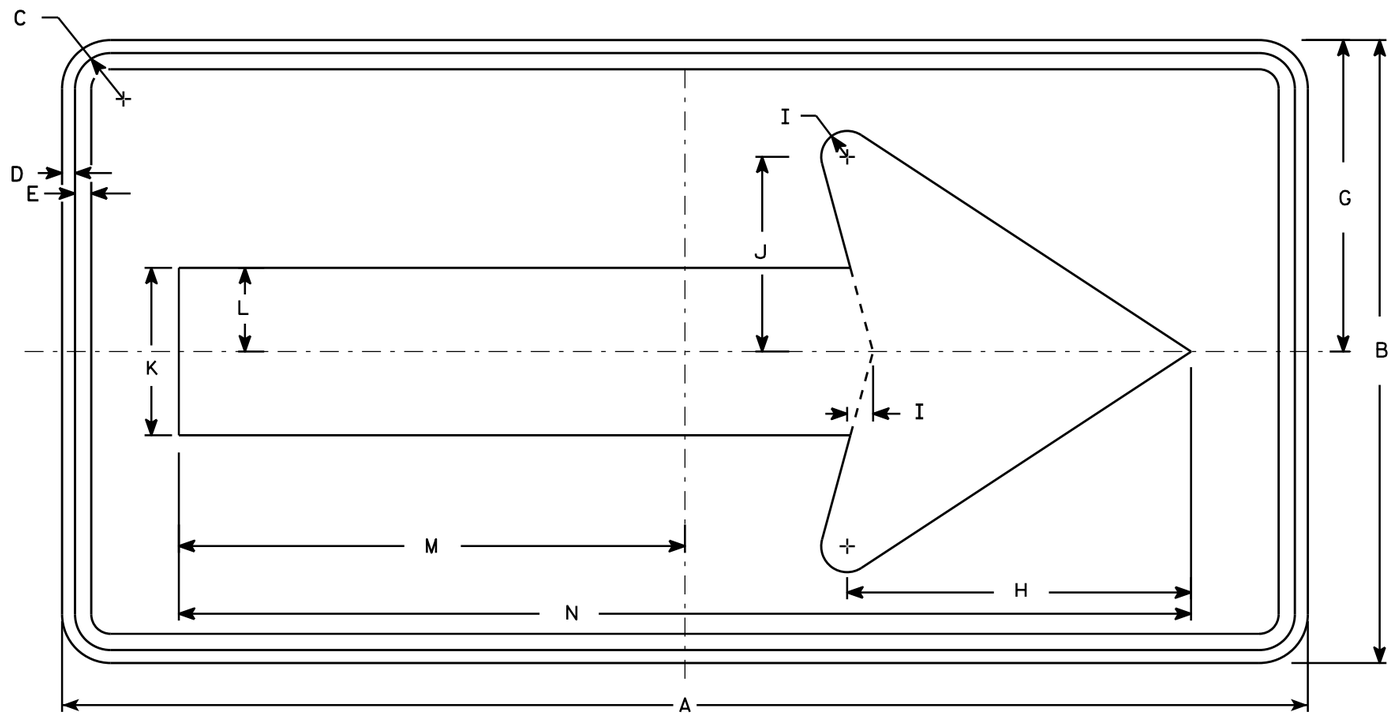
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W013.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.567217:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

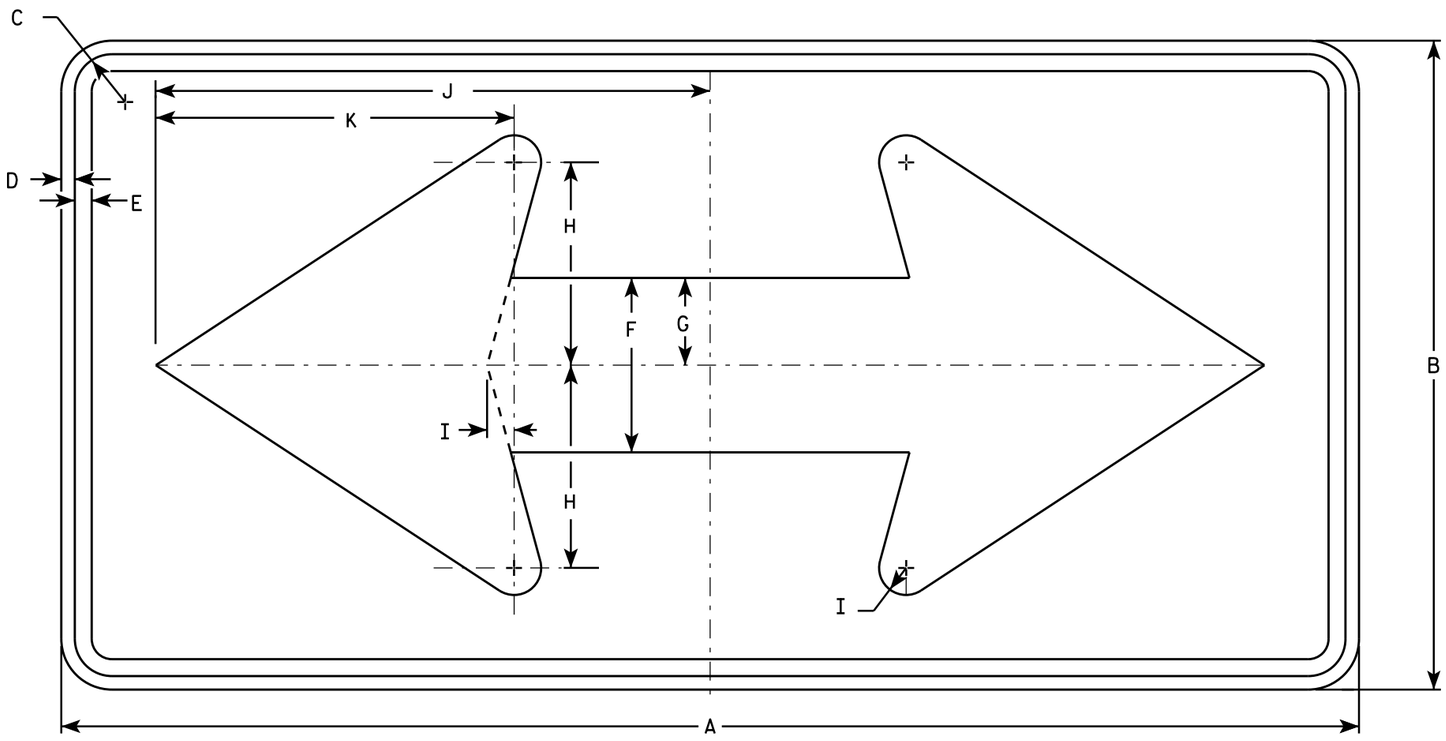
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



W01-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

STANDARD SIGN
W01-7

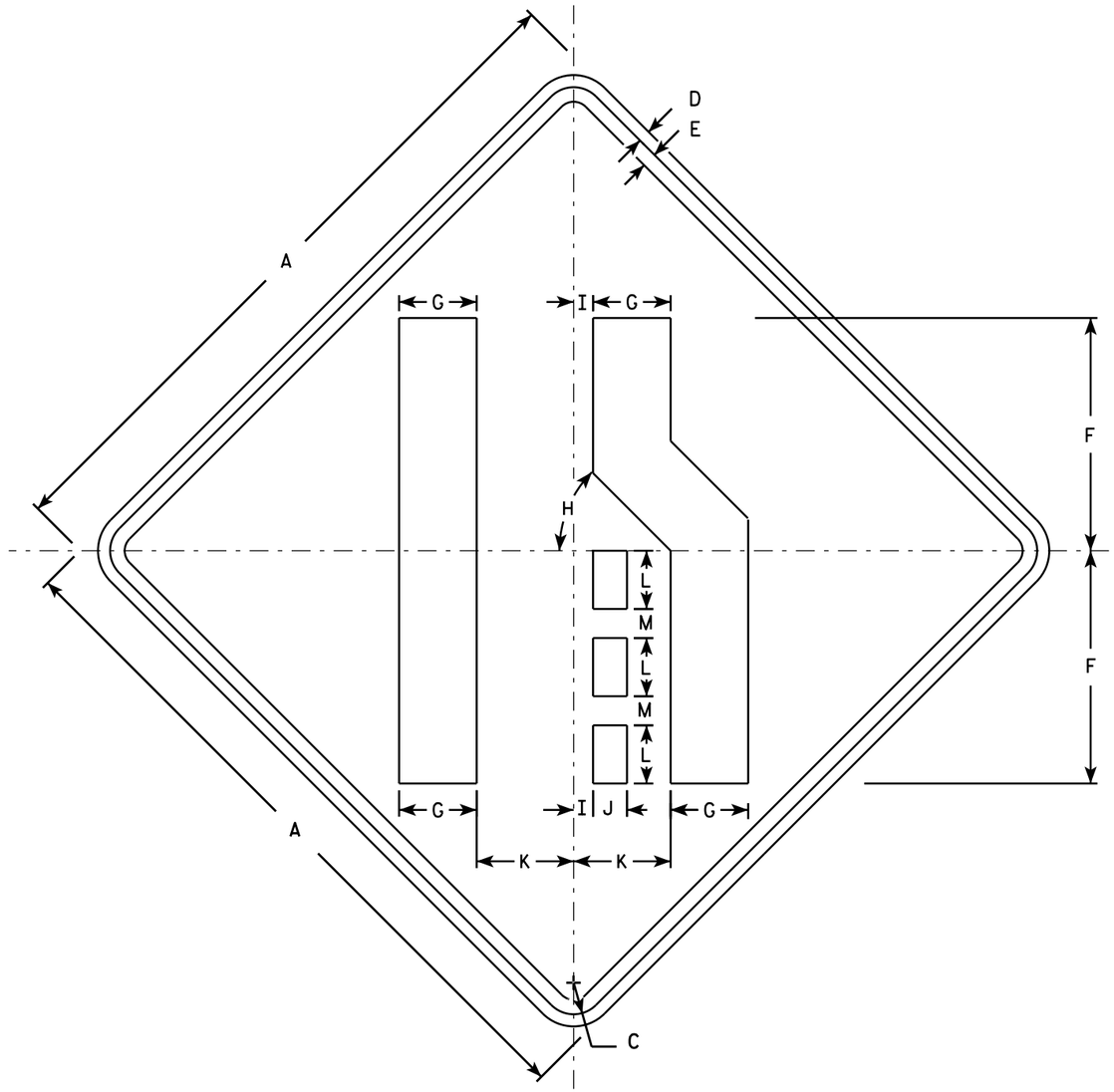
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1842 W01-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W017.DGN PLOT DATE : 20-NOV-2013 10:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.604022:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

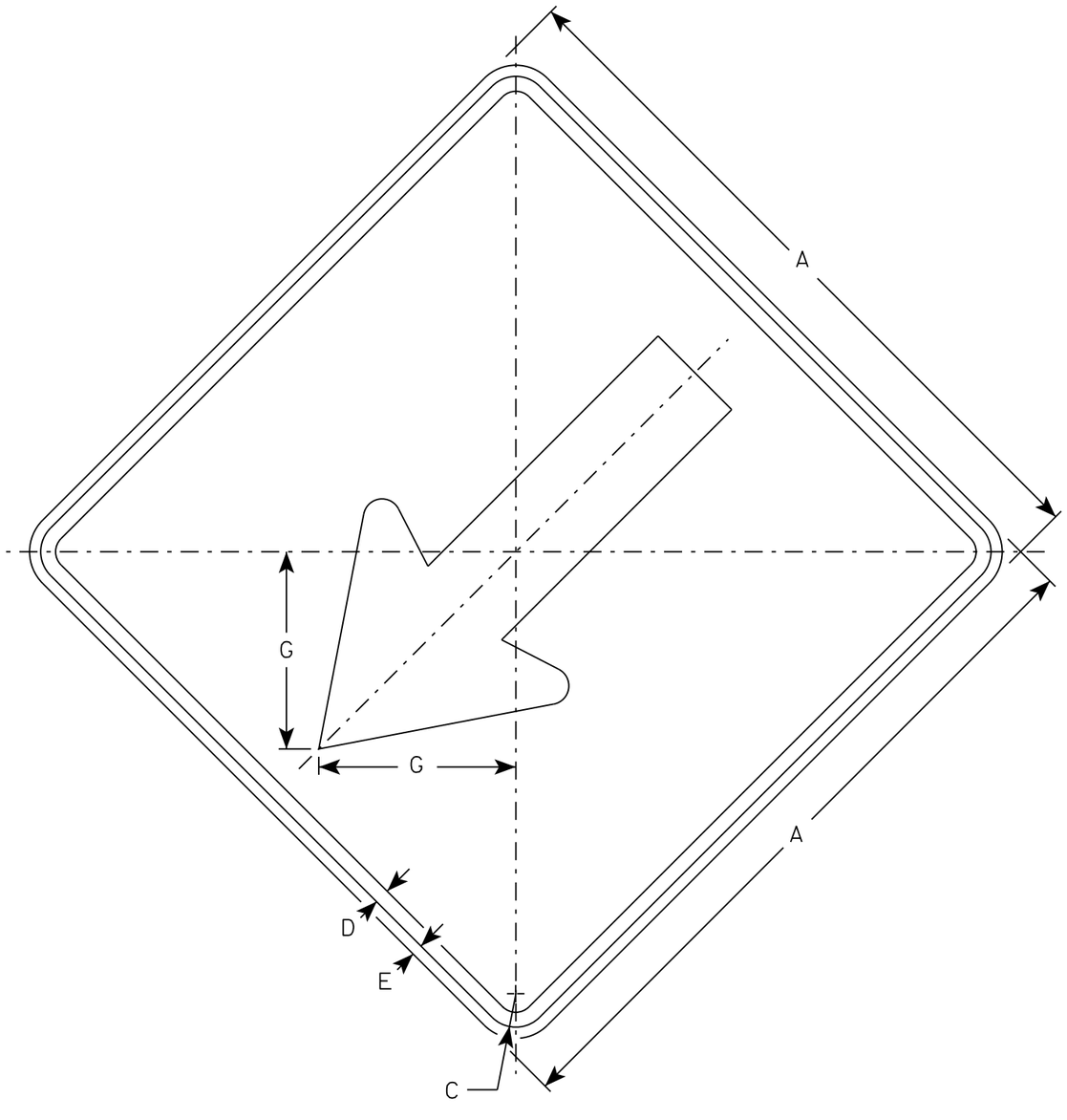
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 843 "W04-2.1

PROJECT NO:

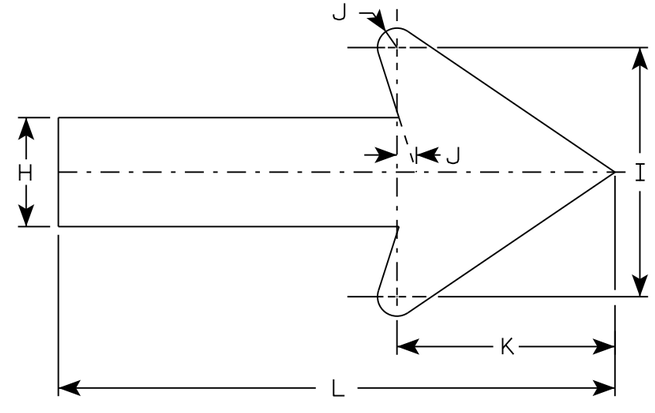
SHEET NO: E



WO12-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2S	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
2M	24		1 1/8	1/2	3/8		6 5/8	3 1/2	8	5/8	7	18															4
3	30		1 3/8	5/8	1/2		8 1/4	4 3/8	10	3/4	8 3/4	22 3/8															6.25
4	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
5	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0

STANDARD SIGN
WO12-1

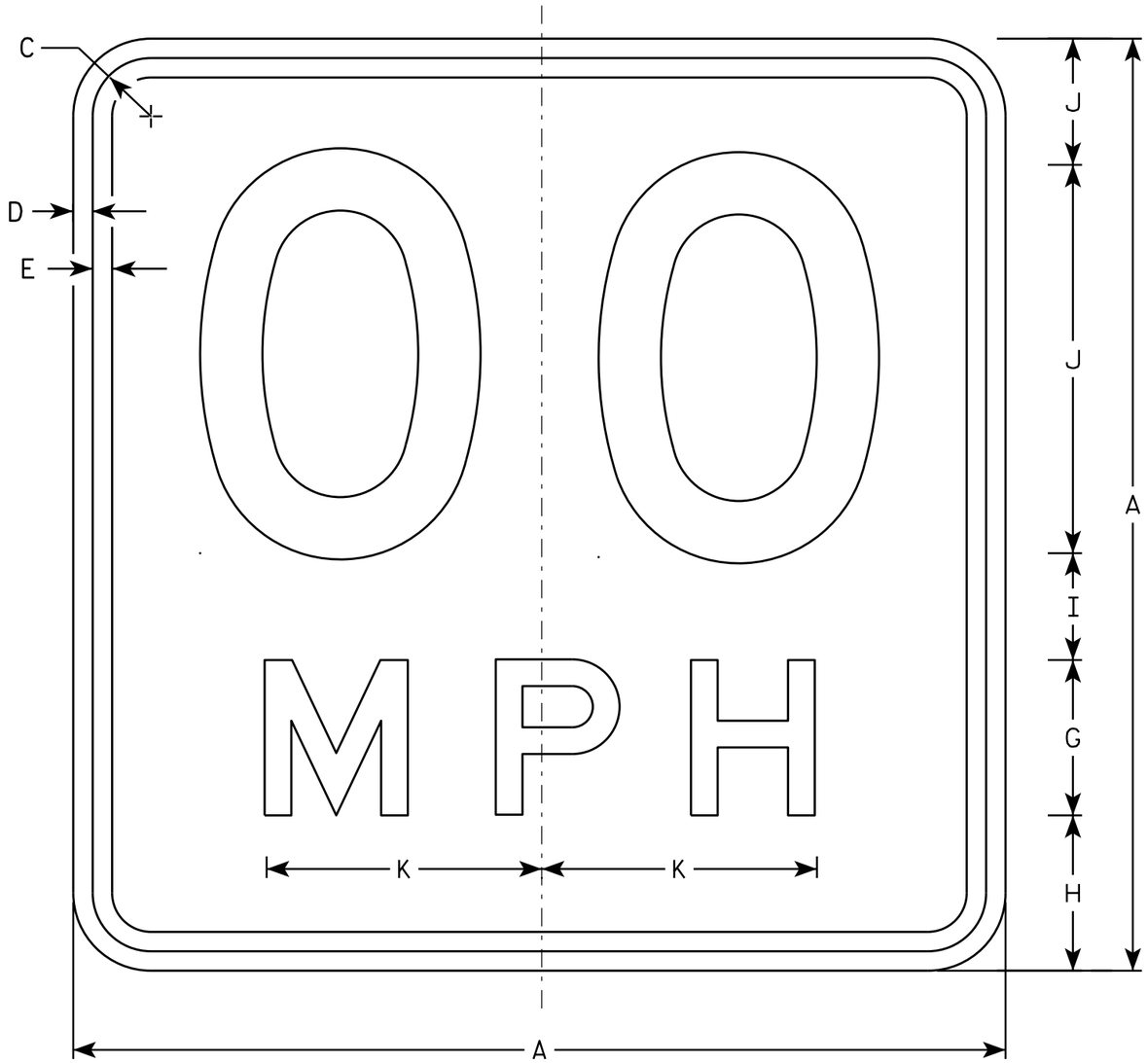
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/26/16 PLA 844 WO12-1.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO121.DGN PLOT DATE : 11-AUG-2016 11:29 PLOT BY : ** plotuser ** PLOT NAME : PLOT SCALE : 4.864607:1.000000



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

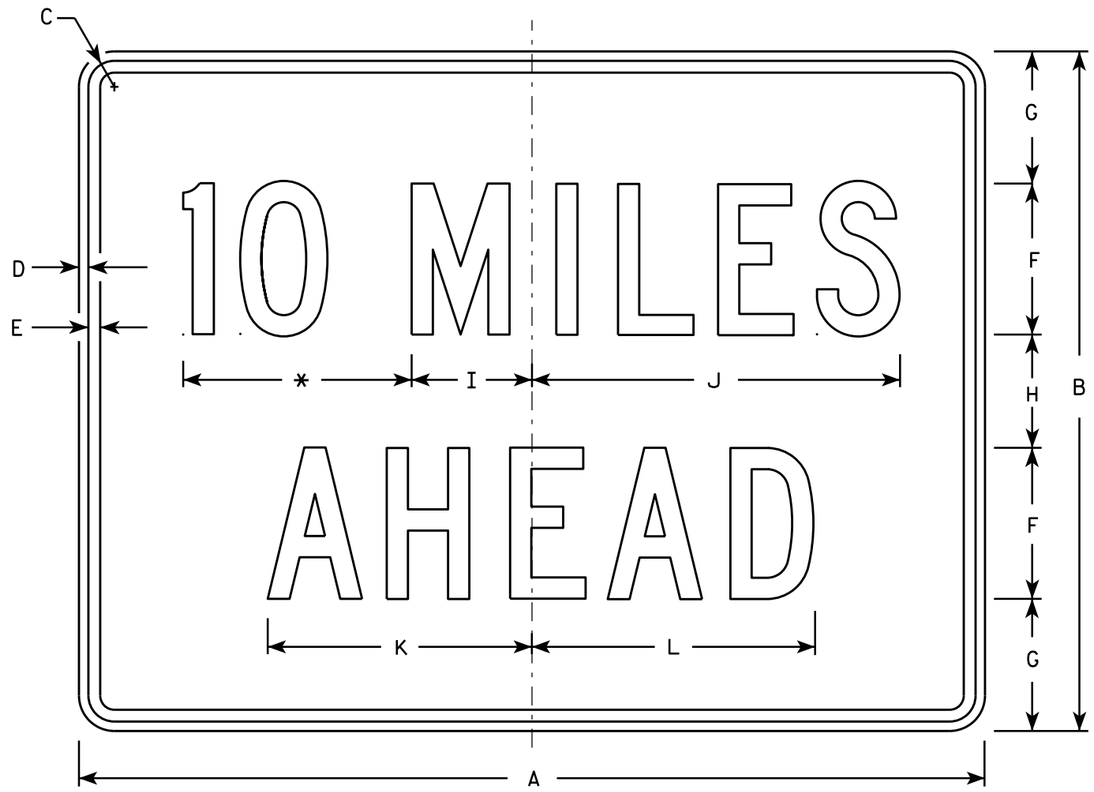
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

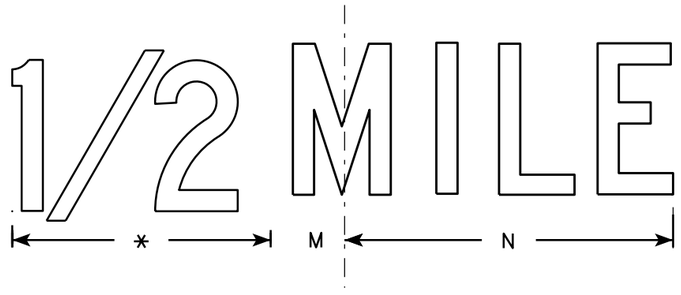
DATE 11/21/13 PLATE 845 W013-1.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN PLOT DATE : 02-DEC-2013 13:55 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.794391:1.000000
WISDOT/CADDS SHEET 42



W057-52



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W057-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN PLOT DATE : 28-FEB-2014 11:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 8.026599:1.000000 WISDOT/CADDS SHEET 42

PROJECT ID 8680-00-71
DIVISION 1A - USH 2
CATEGORY 0010

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
138+07 AH	13807	0.00	210.68	0	0.00	0	0	0	0	0	0	0	0	0
138+25	13825	18.00	208.33	0	0.00	140	0	0	140	0	140	0	0	140
138+50	13850	25.00	212.83	0	0.00	195	0	0	195	0	335	0	0	335
138+69	13869	19.00	198.50	0	0.00	145	0	0	145	0	479	0	0	479
138+75	13875	6.00	200.01	0	0.00	44	0	0	44	0	524	0	0	524
139+00	13900	25.00	198.68	0	0.00	185	0	0	185	0	708	0	0	708
139+25	13925	25.00	197.55	0.05	0.00	183	0	0	183	0	892	0	0	892
139+50	13950	25.00	203.24	0	0.00	186	0	0	186	0	1077	0	0	1077
139+75	13975	25.00	201.19	0.25	0.00	187	0	0	187	0	1264	0	0	1264
139+83	13982.5	7.50	196.04	0.11	0.00	55	0	0	55	0	1320	0	0	1319
140+00	14000	17.50	203.16	0.04	0.00	129	0	0	129	0	1449	0	0	1449
140+25	14025	25.00	210.52	0	0.00	192	0	0	192	0	1641	0	0	1640
140+50	14050	25.00	217.16	0	0.00	198	0	0	198	0	1839	0	0	1838
140+68	14068	18.00	15.40	0	0.00	78	0	0	78	0	1916	0	0	1916
140+75	14075	7.00	7.62	0	0.00	3	0	0	3	0	1919	0	0	1919
142+03	14202.771	127.77	0.00	0	0.00	18	0	0	18	0	1937	0	0	1937
142+25	14225	22.23	0.00	0	0.00	0	0	0	0	0	1937	0	0	1937
142+50	14250	25.00	18.69	0.05	0.00	9	0	0	9	0	1946	0	0	1945
142+75	14275	25.00	19.35	0	0.00	18	0	0	18	0	1963	0	0	1963
143+00	14300	25.00	24.10	0.01	0.00	20	0	0	20	0	1983	0	0	1983
143+25	14325	25.00	36.62	0.09	0.00	28	0	0	28	0	2012	0	0	2011
143+50	14350	25.00	60.43	0	0.00	45	0	0	45	0	2056	1	0	2056
143+75	14375	25.00	67.44	0	0.00	59	0	0	59	0	2116	1	0	2115
144+00	14400	25.00	65.71	0	0.00	62	0	0	62	0	2177	1	0	2177
144+25	14425	25.00	49.48	0	0.00	53	0	0	53	0	2231	1	0	2230
144+50	14450	25.00	35.84	0	0.00	40	0	0	40	0	2270	1	0	2270
144+75	14475.345	25.34	6.16	0	0.00	20	0	0	20	0	2290	1	0	2289
145+70	14570	94.66	0.00	0	0.00	11	0	0	11	0	2301	1	0	2300
146+00	14600	30.00	44.61	0	0.00	25	0	0	25	0	2325	1	0	2325
146+17	14617.081	17.08	246.48	0	0.00	92	0	0	92	0	2418	1	0	2417
146+25	14625	7.92	243.62	0	0.00	72	0	0	72	0	2489	1	0	2489
146+50	14650	25.00	230.13	0	0.00	219	0	0	219	0	2709	1	0	2708
146+75	14675	25.00	224.77	0.17	0.00	211	0	0	211	0	2919	1	0	2919
147+00	14700	25.00	217.29	0.03	0.00	205	0	0	205	0	3124	1	0	3123
147+25	14725	25.00	210.74	0.37	0.00	198	0	0	198	0	3322	1	0	3321
147+50	14750	25.00	213.18	0.23	0.00	196	0	0	196	0	3518	1	0	3517
147+75	14775	25.00	210.79	0.21	0.00	196	0	0	196	0	3715	2	0	3713
148+00	14800	25.00	227.85	0	0.00	203	0	0	203	0	3918	2	0	3916
148+06	14806	6.00	233.38	0.04	0.00	51	0	0	51	0	3969	2	0	3967
148+25	14825	19.00	231.15	0.25	0.00	163	0	0	163	0	4132	2	0	4131
148+50	14850	25.00	244.66	0	0.00	220	0	0	220	0	4353	2	0	4351
148+50	14850.171	0.17	220.17	0	0.00	1	0	0	1	0	4354	2	0	4352
149+34	14934.171	84.00	234.13	0	0.00	707	0	0	707	0	5061	2	0	5059
149+50	14950	15.83	239.63	0.04	0.00	139	0	0	139	0	5200	2	0	5198
149+71	14970.5	20.50	263.80	0	0.00	191	0	0	191	0	5391	2	0	5389
149+75	14975	4.50	270.53	0	0.00	45	0	0	45	0	5435	2	0	5433
150+00	15000	25.00	250.84	0	0.00	241	0	0	241	0	5677	2	0	5675
150+25	15025	25.00	237.61	0	0.00	226	0	0	226	0	5903	2	0	5901
150+50	15050	25.00	233.28	0	0.00	218	0	0	218	0	6121	2	0	6119
150+75	15075	25.00	231.15	0	0.00	215	0	0	215	0	6336	2	0	6334
151+00	15100	25.00	217.41	0.05	0.00	208	0	0	208	0	6544	2	0	6541
151+14	15114	14.00	219.36	0	0.00	113	0	0	113	0	6657	2	0	6655
151+25	15125	11.00	220.81	0	0.00	90	0	0	90	0	6747	2	0	6744
151+50	15150	25.00	222.95	0	0.00	205	0	0	205	0	6952	2	0	6950
151+75	15175	25.00	220.05	0	0.00	205	0	0	205	0	7157	2	0	7155
152+00	15200	25.00	204.29	0.08	0.00	196	0	0	196	0	7353	2	0	7351
152+25	15225	25.00	211.69	0.02	0.00	193	0	0	193	0	7546	2	0	7544
152+27	15226.69	1.69	210.72	0.49	0.00	13	0	0	13	0	7559	2	0	7557

CONTINUED ON NEXT PAGE

PROJECT ID 8680-00-71
DIVISION 1A - USH 2
CATEGORY 0010

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
152+96	15296.125	69.43	259.40	0	0.00	604	1	0	604	1	8164	3	0	8161
153+00	15300	3.88	228.61	0	0.00	35	0	0	35	0	8199	3	0	8196
153+25	15325	25.00	228.35	0	0.00	212	0	0	212	0	8410	3	0	8407
153+50	15350	25.00	251.06	0	0.00	222	0	0	222	0	8632	3	0	8629
153+75	15375	25.00	245.22	0	0.00	230	0	0	230	0	8862	3	0	8859
154+00	15400	25.00	250.34	0	0.00	229	0	0	229	0	9092	3	0	9089
154+25	15425	25.00	243.87	0	0.00	229	0	0	229	0	9320	3	0	9317
154+44	15444	19.00	242.82	0.04	0.00	171	0	0	171	0	9492	3	0	9489
154+50	15450	6.00	241.49	0	0.00	54	0	0	54	0	9545	3	0	9542
154+75	15475	25.00	239.82	0	0.00	223	0	0	223	0	9768	3	0	9765
155+00	15500	25.00	254.02	0	0.00	229	0	0	229	0	9997	3	0	9994
155+25	15525	25.00	228.98	0	0.00	224	0	0	224	0	10220	3	0	10218
155+50	15550	25.00	212.17	0	0.00	204	0	0	204	0	10425	3	0	10422
155+75	15575	25.00	199.90	0.05	0.00	191	0	0	191	0	10615	3	0	10612
155+98	15597.664	22.66	251.14	0	0.00	189	0	0	189	0	10805	3	0	10802
157+03	15702.753	105.09	200.79	0.25	0.00	879	1	0	879	1	11684	4	0	11680
157+25	15725	22.25	203.47	0.15	0.00	167	0	0	167	0	11851	4	0	11847
157+50	15750	25.00	229.01	0	0.00	200	0	0	200	0	12051	4	0	12047
157+75	15775	25.00	218.05	0	0.00	207	0	0	207	0	12258	4	0	12254
158+00	15800	25.00	216.70	0.05	0.00	201	0	0	201	0	12459	4	0	12455
158+25	15825	25.00	222.07	0	0.00	203	0	0	203	0	12662	4	0	12658
158+34	15834	9.00	220.43	0.02	0.00	74	0	0	74	0	12736	4	0	12732
158+50	15850	16.00	216.69	0.04	0.00	130	0	0	130	0	12866	4	0	12862
158+75	15875	25.00	218.07	0	0.00	201	0	0	201	0	13067	4	0	13063
159+00	15900	25.00	214.48	0.16	0.00	200	0	0	200	0	13267	4	0	13263
159+25	15925	25.00	218.98	0	0.00	201	0	0	201	0	13468	4	0	13464
159+50	15950	25.00	213.05	0.12	0.00	200	0	0	200	0	13668	4	0	13663
159+75	15975	25.00	187.78	0.7	0.00	186	1	0	186	1	13853	5	0	13848
160+00	16000	25.00	216.25	0	0.00	187	0	0	187	0	14041	5	0	14035
160+00	16000.453	0.45	218.14	0	0.00	4	0	0	4	0	14044	5	0	14039
160+71	16071.075	70.62	161.63	0	0.00	497	0	0	497	0	14541	5	0	14536
160+75	16075	3.92	189.78	1.59	0.00	26	0	0	26	0	14566	5	0	14561
161+00	16100	25.00	187.20	0.66	0.00	175	1	0	175	1	14741	6	0	14735
161+23	16122.5	22.50	212.75	0.03	0.00	167	0	0	167	0	14908	6	0	14902
161+25	16125	2.50	214.29	0.08	0.00	20	0	0	20	0	14927	6	0	14921
161+46	16146.001	21.00	214.63	0.38	0.00	167	0	0	167	0	15094	6	0	15088
161+50	16150	4.00	215.06	0.21	0.00	32	0	0	32	0	15126	6	0	15120
161+75	16175	25.00	222.31	0	0.00	202	0	0	202	0	15328	6	0	15322
162+00	16200	25.00	227.39	0	0.00	208	0	0	208	0	15537	6	0	15530
162+25	16225	25.00	227.00	0.05	0.00	210	0	0	210	0	15747	6	0	15741
162+50	16250	25.00	222.03	0.05	0.00	208	0	0	208	0	15955	6	0	15949
162+75	16275	25.00	217.98	0.05	0.00	204	0	0	204	0	16159	6	0	16152
162+77	16277.436	2.44	218.05	0.04	0.00	20	0	0	20	0	16178	6	0	16172
163+00	16300	22.56	209.47	0	0.00	179	0	0	179	0	16357	6	0	16350
163+25	16325	25.00	200.33	0	0.00	190	0	0	190	0	16547	6	0	16540
163+50	16350	25.00	234.55	0	0.00	201	0	0	201	0	16748	6	0	16742
163+69	16368.713	18.71	264.07	0	0.00	173	0	0	173	0	16921	6	0	16914
164+37	16436.713	68.00	300.53	0	0.00	711	0	0	711	0	17632	6	0	17625
164+50	16450	13.29	217.62	0	0.00	127	0	0	127	0	17759	6	0	17753
164+75	16475	25.00	222.40	0.01	0.00	204	0	0	204	0	17963	6	0	17957
165+00	16500	25.00	236.88	0	0.00	213	0	0	213	0	18176	6	0	18169
165+25	16525	25.00	238.41	0	0.00	220	0	0	220	0	18396	6	0	18389
165+36	16536	11.00	241.32	0	0.00	98	0	0	98	0	18493	6	0	18487
165+50	16550	14.00	235.80	0	0.00	124	0	0	124	0	18617	6	0	18611
165+75	16575	25.00	234.15	0	0.00	218	0	0	218	0	18835	6	0	18828
166+00	16600	25.00	238.66	0	0.00	219	0	0	219	0	19053	6	0	19047
166+25	16625	25.00	239.72	0	0.00	221	0	0	221	0	19275	6	0	19269
166+50	16650	25.00	240.52	0	0.00	222	0	0	222	0	19497	6	0	19491
166+75	16675	25.00	242.81	0	0.00	224	0	0	224	0	19721	6	0	19715
167+00	16700	25.00	223.19	0.29	0.00	216	0	0	216	0	19937	7	0	19930
167+17	16717.074	17.07	216.02	0.39	0.00	139	0	0	139	0	20076	7	0	20069

CONTINUED ON NEXT PAGE

PROJECT ID 8680-00-71
DIVISION 1A - USH 2
CATEGORY 0010

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
168+27	16826.648	109.57	223.40	0	0.00	892	1	0	892	1	20967	8	0	20960
168+50	16850	23.35	224.59	0	0.00	194	0	0	194	0	21161	8	0	21153
168+75	16875	25.00	235.88	0	0.00	213	0	0	213	0	21374	8	0	21367
169+00	16900	25.00	226.73	0	0.00	214	0	0	214	0	21588	8	0	21581
169+25	16925	25.00	219.06	0	0.00	206	0	0	206	0	21795	8	0	21787
169+50	16950	25.00	219.41	0	0.00	203	0	0	203	0	21998	8	0	21990
169+75	16975	25.00	228.63	0	0.00	207	0	0	207	0	22205	8	0	22197
170+00	17000	25.00	227.97	0	0.00	211	0	0	211	0	22417	8	0	22409
170+02	17001.68	1.68	227.86	0	0.00	14	0	0	14	0	22431	8	0	22423
170+25	17025	23.32	229.55	0	0.00	198	0	0	198	0	22628	8	0	22621
170+50	17050	25.00	221.44	0.31	0.00	209	0	0	209	0	22837	8	0	22829
170+75	17075	25.00	215.45	0.18	0.00	202	0	0	202	0	23039	8	0	23031
171+00	17100	25.00	216.14	0.19	0.00	200	0	0	200	0	23239	8	0	23231
171+04	17104.481	4.48	194.42	0.36	0.00	34	0	0	34	0	23273	8	0	23265
171+82	17182.481	78.00	175.15	0.16	0.00	534	1	0	534	1	23807	9	0	23798
172+00	17200	17.52	193.92	0.19	0.00	120	0	0	120	0	23927	9	0	23918
172+25	17225	25.00	208.03	0.19	0.00	186	0	0	186	0	24113	9	0	24104
172+50	17250	25.00	215.71	0	0.00	196	0	0	196	0	24309	9	0	24300
172+68	17267.5	17.50	231.76	0	0.00	145	0	0	145	0	24454	9	0	24445
172+75	17275	7.50	247.91	0	0.00	67	0	0	67	0	24521	9	0	24511
173+00	17300	25.00	212.40	8.18	0.00	213	4	0	213	5	24734	13	0	24721
173+25	17325	25.00	236.73	0.49	0.00	208	4	0	208	5	24942	17	0	24924
173+50	17350	25.00	238.60	0.27	0.00	220	0	0	220	0	25162	18	0	25144
173+71	17371.315	21.31	253.51	0.03	0.00	194	0	0	194	0	25356	18	0	25338
174+53	17453.315	82.00	219.32	0.66	0.00	718	1	0	718	1	26074	19	0	26055
174+75	17475	21.69	220.63	0.62	0.00	177	1	0	177	1	26251	19	0	26231
175+00	17500	25.00	213.83	0.46	0.00	201	1	0	201	1	26452	20	0	26432
175+25	17525	25.00	212.83	0.86	0.00	198	1	0	198	1	26649	20	0	26629
175+50	17550	25.00	213.22	0.06	0.00	197	0	0	197	1	26847	21	0	26826
175+75	17575	25.00	209.88	0.35	0.00	196	0	0	196	0	27042	21	0	27022
176+00	17600	25.00	202.86	0.92	0.00	191	1	0	191	1	27234	22	0	27212
176+25	17625	25.00	216.39	0.14	0.00	194	0	0	194	1	27428	22	0	27406
176+35	17635	10.00	218.76	0.09	0.00	81	0	0	81	0	27508	22	0	27486
176+50	17650	15.00	193.13	0.44	0.00	114	0	0	114	0	27623	22	0	27600
176+75	17675	25.00	186.42	2.21	0.00	176	1	0	176	2	27798	23	0	27775
177+00	17700	25.00	209.55	5.6	0.00	183	4	0	183	5	27982	27	0	27955
177+25	17725	25.00	228.81	1.14	0.00	203	3	0	203	4	28185	30	0	28154
177+50	17750	25.00	237.05	0.55	0.00	216	1	0	216	1	28400	31	0	28369
177+75	17775	25.00	236.78	0.46	0.00	219	0	0	219	1	28620	31	0	28588
178+00	17800	25.00	219.23	2.08	0.00	211	1	0	211	2	28831	33	0	28798
178+25	17825	25.00	172.56	13.44	0.00	181	7	0	181	9	29012	40	0	28972
178+30	17830.098	5.10	169.15	8.04	0.00	32	2	0	32	3	29044	42	0	29003
179+28	17927.972	97.87	230.89	1.23	0.00	725	17	0	725	22	29770	59	0	29711
179+50	17950	22.03	234.92	0	0.00	190	1	0	190	1	29960	59	0	29900
179+75	17975	25.00	228.16	0	0.00	214	0	0	214	0	30174	59	0	30115
180+00	18000	25.00	207.24	0.15	0.00	202	0	0	202	0	30375	59	0	30316
180+25	18025	25.00	192.56	0	0.00	185	0	0	185	0	30561	59	0	30501
180+50	18050	25.00	193.95	0	0.00	179	0	0	179	0	30740	59	0	30680
180+75	18075	25.00	197.32	0	0.00	181	0	0	181	0	30921	59	0	30861
180+86	18085.5	10.50	197.33	0	0.00	77	0	0	77	0	30997	59	0	30938
181+00	18100	14.50	205.41	0	0.00	108	0	0	108	0	31106	59	0	31046
181+13	18113	13.00	204.11	0	0.00	99	0	0	99	0	31204	59	0	31145
181+25	18125	12.00	202.75	0	0.00	90	0	0	90	0	31295	59	0	31235
181+50	18150	25.00	199.56	0	0.00	186	0	0	186	0	31481	59	0	31422
181+75	18175	25.00	202.18	0	0.00	186	0	0	186	0	31667	59	0	31608
182+00	18200	25.00	183.68	0	0.00	179	0	0	179	0	31845	59	0	31786
182+08	18208	8.00	183.01	0	0.00	54	0	0	54	0	31900	59	0	31840
182+99	18299	91.00	151.70	0.19	0.00	564	0	0	564	0	32464	60	0	32404
183+00	18300	1.00	152.01	0.26	0.00	6	0	0	6	0	32469	60	0	32410
183+25	18325	25.00	169.92	0	0.00	149	0	0	149	0	32618	60	0	32559
183+50	18350	25.00	171.63	0	0.00	158	0	0	158	0	32777	60	0	32717

CONTINUED ON NEXT PAGE

PROJECT ID 8680-00-71
DIVISION 1A - USH 2
CATEGORY 0010

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
183+75	18375	25.00	175.37	0	0.00	161	0	0	161	0	32937	60	0	32878
184+00	18400	25.00	184.93	0	0.00	167	0	0	167	0	33104	60	0	33044
184+25	18425	25.00	193.62	0	0.00	175	0	0	175	0	33279	60	0	33220
184+39	18438.5	13.50	192.90	0	0.00	97	0	0	97	0	33376	60	0	33316
184+50	18450	11.50	194.27	0	0.00	82	0	0	82	0	33458	60	0	33399
184+75	18475	25.00	191.41	0.19	0.00	179	0	0	179	0	33637	60	0	33577
184+89	18488.5	13.50	189.09	0.2	0.00	95	0	0	95	0	33732	60	0	33672
185+00	18500	11.50	186.46	0.26	0.00	80	0	0	80	0	33812	60	0	33752
185+25	18525	25.00	170.84	0	0.00	165	0	0	165	0	33977	60	0	33917
185+41	18540.541	15.54	169.46	0	0.00	98	0	0	98	0	34075	60	0	34015
186+19	18618.541	78.00	135.27	5.42	0.00	440	8	0	440	10	34516	68	0	34448
186+25	18625	6.46	145.80	6.17	0.00	34	1	0	34	2	34549	69	0	34480
186+50	18650	25.00	142.53	2.37	0.00	133	4	0	133	5	34683	73	0	34609
186+75	18675	25.00	144.14	1.88	0.00	133	2	0	133	3	34815	75	0	34740
187+00	18700	25.00	145.31	1.15	0.00	134	1	0	134	2	34949	77	0	34873
187+25	18725	25.00	146.81	2.1	0.00	135	2	0	135	2	35085	78	0	35006
187+38	18737.504	12.50	145.66	0.96	0.00	68	1	0	68	1	35152	79	0	35073
187+50	18750	12.50	146.62	2.3	0.00	68	1	0	68	1	35220	80	0	35140
187+75	18775	25.00	167.08	1.48	0.00	145	2	0	145	2	35365	81	0	35284
188+00	18800	25.00	166.75	2.64	0.00	155	2	0	155	2	35520	83	0	35436
188+25	18825	25.00	197.22	2.44	0.00	169	2	0	169	3	35688	86	0	35603
188+50	18850	25.00	227.45	1.29	0.00	197	2	0	197	2	35885	87	0	35798
188+66	18866.339	16.34	240.57	1.42	0.00	142	1	0	142	1	36026	88	0	35938
189+66	18966.348	100.01	217.59	0.98	0.00	849	4	0	849	6	36875	93	0	36782
189+75	18975	8.65	224.99	0.32	0.00	71	0	0	71	0	36946	93	0	36853
190+00	19000	25.00	236.85	0.11	0.00	214	0	0	214	0	37160	93	0	37067
190+25	19025	25.00	226.09	0	0.00	214	0	0	214	0	37374	93	0	37281
190+43	19043	18.00	235.62	0	0.00	154	0	0	154	0	37528	93	0	37435
190+50	19050	7.00	233.10	0	0.00	61	0	0	61	0	37589	93	0	37496
190+75	19075	25.00	218.12	0	0.00	209	0	0	209	0	37798	93	0	37705
190+99	19098.5	23.50	240.69	0.04	0.00	200	0	0	200	0	37997	93	0	37904
191+00	19100	1.50	239.77	0.03	0.00	13	0	0	13	0	38011	93	0	37918
191+24	19123.712	23.71	238.59	0.29	0.00	210	0	0	210	0	38221	93	0	38127
191+25	19125	1.29	238.20	0.32	0.00	11	0	0	11	0	38232	93	0	38139
192+14	19213.712	88.71	228.81	1.34	0.00	767	3	0	767	4	38999	96	0	38903
192+25	19225	11.29	228.90	3.05	0.00	96	1	0	96	1	39095	97	0	38998
192+50	19250	25.00	233.90	6.31	0.00	214	4	0	214	6	39309	101	0	39208
192+75	19275	25.00	241.51	2.46	0.00	220	4	0	220	5	39529	105	0	39424
193+00	19300	25.00	240.56	1.04	0.00	223	2	0	223	2	39752	107	0	39646
193+25	19325	25.00	228.62	0	0.00	217	0	0	217	1	39970	107	0	39862
193+50	19350	25.00	213.12	0	0.00	205	0	0	205	0	40174	107	0	40067
193+75	19375	25.00	207.80	0.98	0.00	195	0	0	195	1	40369	108	0	40261
193+95	19394.656	19.66	194.44	1.14	0.00	146	1	0	146	1	40516	109	0	40407
194+00	19400	5.34	188.76	0.94	0.00	38	0	0	38	0	40553	109	0	40445
194+25	19425	25.00	165.77	15.83	0.00	164	8	0	164	10	40718	117	0	40601
194+46	19446.233	21.23	178.48	0.75	0.00	135	7	0	135	8	40853	123	0	40730
194+50	19450	3.77	175.89	0.78	0.00	25	0	0	25	0	40878	123	0	40754
194+75	19475	25.00	158.75	3.59	0.00	155	2	0	155	3	41033	125	0	40907
195+00	19500	25.00	150.03	4.37	0.00	143	4	0	143	5	41176	129	0	41047
195+25	19525	25.00	155.10	3.13	0.00	141	3	0	141	5	41317	132	0	41184
195+50	19550	25.00	164.99	2.84	0.00	148	3	0	148	4	41465	135	0	41330
195+75	19575	25.00	175.52	3.33	0.00	158	3	0	158	4	41623	138	0	41485
196+00	19600	25.00	188.53	3.63	0.00	169	3	0	169	4	41791	141	0	41650
196+50	19650	50.00	203.49	3.74	0.00	363	7	0	363	9	42154	148	0	42006
196+75	19675	25.00	187.11	1.55	0.00	181	2	0	181	3	42335	151	0	42184
197+00	19700	25.00	181.82	0.77	0.00	171	1	0	171	1	42506	152	0	42354
197+25	19725	25.00	182.25	1.06	0.00	169	1	0	169	1	42674	152	0	42522
197+50	19750	25.00	179.58	0.77	0.00	168	1	0	168	1	42842	153	0	42689
197+75	19775	25.00	180.83	0.47	0.00	167	1	0	167	1	43009	154	0	42855
197+89	19789.198	14.20	234.77	1.26	0.00	109	0	0	109	1	43118	154	0	42964
198+67	19867.198	78.00	228.72	1.9	0.00	669	5	0	669	6	43787	159	0	43629

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PROJECT ID 8680-00-71
DIVISION 1A - USH 2
CATEGORY 0010

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
198+75	19875	7.80	205.40	9.18	0.00	63	2	0	63	2	43850	161	0	43690
199+00	19900	25.00	243.28	0.02	0.00	208	4	0	208	6	44058	165	0	43893
199+10	19910	10.00	241.50	0	0.00	90	0	0	90	0	44148	165	0	43983
199+25	19925	15.00	241.76	0	0.00	134	0	0	134	0	44282	165	0	44117
199+50	19950	25.00	234.54	0.72	0.00	221	0	0	221	0	44502	165	0	44337
199+75	19975	25.00	240.16	0.75	0.00	220	1	0	220	1	44722	166	0	44556
199+96	19996	21.00	237.56	1.3	0.00	186	1	0	186	1	44908	167	0	44741
200+00	20000	4.00	237.65	1.33	0.00	35	0	0	35	0	44943	167	0	44776
200+25	20025	25.00	241.33	1.4	0.00	222	1	0	222	2	45165	168	0	44997
200+50	20050	25.00	248.39	0.09	0.00	227	1	0	227	1	45392	169	0	45223
200+75	20075	25.00	254.03	0.05	0.00	233	0	0	233	0	45624	169	0	45455
201+00	20100	25.00	192.25	0	0.00	207	0	0	207	0	45831	169	0	45662
201+03	20102.903	2.90	191.85	0	0.00	21	0	0	21	0	45852	169	0	45683
201+87	20187.268	84.37	231.15	0.21	0.00	661	0	0	661	0	46512	169	0	46343
202+00	20200	12.73	250.12	0.96	0.00	113	0	0	113	0	46626	169	0	46456
202+25	20225	25.00	254.11	1.23	0.00	233	1	0	233	1	46859	170	0	46689
202+50	20250	25.00	222.31	0.65	0.00	221	1	0	221	1	47080	171	0	46909
202+75	20275	25.00	219.55	0.47	0.00	205	1	0	205	1	47284	172	0	47113
203+00	20300	25.00	220.89	0	0.00	204	0	0	204	0	47488	172	0	47316
203+25	20325	25.00	218.37	0	0.00	203	0	0	203	0	47692	172	0	47520
203+33	20333	8.00	218.75	0	0.00	65	0	0	65	0	47756	172	0	47584
203+50	20350	17.00	219.19	0	0.00	138	0	0	138	0	47894	172	0	47722
203+75	20375	25.00	223.60	0	0.00	205	0	0	205	0	48099	172	0	47927
204+00	20400	25.00	227.21	0	0.00	209	0	0	209	0	48308	172	0	48136
204+25	20425	25.00	226.38	0	0.00	210	0	0	210	0	48518	172	0	48346
204+35	20434.5	9.50	208.43	0	0.00	76	0	0	76	0	48594	172	0	48422
205+16	20516.328	81.83	253.13	0.65	0.00	699	1	0	699	1	49294	173	0	49121
205+25	20525	8.67	252.89	0.79	0.00	81	0	0	81	0	49375	173	0	49202
205+50	20550	25.00	246.70	0.12	0.00	231	0	0	231	1	49606	174	0	49433
205+75	20575	25.00	224.21	3.22	0.00	218	2	0	218	2	49824	175	0	49649
206+00	20600	25.00	226.96	0.29	0.00	209	2	0	209	2	50033	177	0	49857
206+25	20625	25.00	233.43	0.31	0.00	213	0	0	213	0	50247	177	0	50069
206+44	20644.3	19.30	230.61	0	0.00	166	0	0	166	0	50412	177	0	50235
206+50	20650	5.70	220.16	1.33	0.00	48	0	0	48	0	50460	177	0	50283
206+75	20675	25.00	232.45	1	0.00	210	1	0	210	1	50669	178	0	50491
207+00	20700	25.00	226.62	0.18	0.00	213	1	0	213	1	50882	179	0	50703
207+25	20725	25.00	227.91	0.27	0.00	210	0	0	210	0	51092	179	0	50913
207+50	20750	25.00	223.33	0.85	0.00	209	1	0	209	1	51301	180	0	51122
207+74	20774.331	24.33	228.61	0	0.00	204	0	0	204	0	51505	180	0	51325
208+92	20892.226	117.90	227.86	0.39	0.00	997	1	0	997	1	52502	181	0	52321
209+00	20900	7.77	217.72	0.03	0.00	64	0	0	64	0	52566	181	0	52385
209+25	20925	25.00	198.98	0	0.00	193	0	0	193	0	52759	181	0	52578
209+50	20950	25.00	197.14	0	0.00	183	0	0	183	0	52942	181	0	52761
209+75	20975	25.00	181.54	0	0.00	175	0	0	175	0	53117	181	0	52936
210+00	21000	25.00	170.23	0	0.00	163	0	0	163	0	53280	181	0	53099
210+18 BK	21018	18.00	0.00	0	0.00	57	0	0	57	0	53337	181	0	53156
						COLUMN TOTALS			53337	235				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 John (South)

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
298+00	AH	29800	0.00	90.20	2.95	0.00	0	0	0	0	0	0	0	0	0
298+02		29801.502	1.50	90.01	3.14	0.00	5	0	0	5	0	5	0	0	5
298+04		29803.998	2.50	111.62	0	0.00	9	0	0	9	0	14	0	0	14
298+25		29825	21.00	172.39	0	0.00	110	0	0	110	0	125	0	0	124
298+33		29833.006	8.01	175.56	0	0.00	52	0	0	52	0	176	0	0	176
298+34		29834.498	1.49	167.54	0.76	0.00	9	0	0	9	0	186	0	0	186
298+45		29844.998	10.50	177.47	0.36	0.00	67	0	0	67	0	253	1	0	252
298+46		29846.498	1.50	160.65	0.31	0.00	9	0	0	9	0	262	1	0	262
298+50		29850	3.50	139.50	0.54	0.00	19	0	0	19	0	282	1	0	281
298+75		29875	25.00	146.04	1.11	0.00	132	1	0	132	1	414	1	0	413
298+80		29880.178	5.18	147.26	0.01	0.00	28	0	0	28	0	442	1	0	441
299+00		29900	19.82	139.79	1.04	0.00	105	0	0	105	1	547	2	0	546
299+25		29925	25.00	178.14	0.72	0.00	147	1	0	147	1	695	3	0	692
299+36		29936.018	11.02	149.32	0.67	0.00	67	0	0	67	0	761	3	0	759
299+46	BK	29945.986	9.97	149.30	0.04	0.00	55	0	0	55	0	817	3	0	814
								COLUMN TOTALS		535	3				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 John (North)

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
300+54	AH	30054	0.00	133.68	0	0.00	0	0	0	0	0	0	0	0	0
300+64		30064	10.00	124.02	0	0.00	48	0	0	48	0	48	0	0	48
300+74		30074	10.00	133.69	0	0.00	48	0	0	48	0	95	0	0	95
300+76		30075.5	1.50	130.96	0	0.00	7	0	0	7	0	103	0	0	103
301+00		30100	24.50	119.47	1.46	0.00	114	1	0	114	1	216	1	0	216
301+25	BK	30125	25.00	115.96	1.16	0.00	109	1	0	109	2	325	2	0	324
								COLUMN TOTALS		325	2				

9

9

PROJECT NO: 86800071	HWY: USH 2	COUNTY: DOUGLAS	COMPUTER EARTHWORK DATA	SHEET	E

FILE NAME : P:\UZ\W\Wltnw\122503\C3d\86800071\SheetsPlan\Computer Earthwork Data\090100_ew.dwg PLOT DATE : 8/1/2016 4:16 PM PLOT BY : SEH INC LAYOUT NAME : 090106_EW (JOHN) PLOT SCALE : NTS

WISDOT/CADDS SHEET 49

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 John (South)

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
297+72	AH	29771.998	0.00	88.92	2.77	0.00	0	0	0	0	0	0	0	0	0
297+75		29775	3.00	89.39	2.68	0.00	10	0	0	10	0	10	0	0	10
298+00	BK	29800	25.00	90.20	2.95	0.00	83	3	0	83	3	93	3	0	90
							COLUMN TOTALS			93	4				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 John (North)

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
301+25	AH	30125	0.00	115.96	1.16	0.00	0	0	0	0	0	0	0	0	0
301+50		30150	25.00	112.12	0.47	0.00	106	1	0	106	1	106	1	0	105
301+60		30160.498	10.50	108.19	0.81	0.00	43	0	0	43	0	148	1	0	147
301+62		30161.998	1.50	121.63	0.07	0.00	6	0	0	6	0	155	1	0	154
301+73		30172.993	10.99	115.25	0.56	0.00	48	0	0	48	0	203	1	0	202
301+74		30174.498	1.51	125.10	0.56	0.00	7	0	0	7	0	210	1	0	209
301+75		30175	0.50	124.84	0.56	0.00	2	0	0	2	0	212	1	0	211
302+00		30200	25.00	94.98	0.56	0.00	102	1	0	102	1	314	2	0	312
302+16	BK	30216.498	16.50	91.83	0.56	0.00	57	0	0	57	0	371	2	0	369
							COLUMN TOTALS			371	3				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Hughitt (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
309+00 AH	30900	0.00	134.99	0.59	0.00	0	0	0	0	0	0	0	0	0
309+05	30905.064	5.06	133.55	1.29	0.00	25	0	0	25	0	25	0	0	25
309+25	30925	19.94	132.27	0.2	0.00	98	1	0	98	1	123	1	0	123
309+46 BK	30945.982	20.98	131.06	0.02	0.00	102	0	0	102	0	226	1	0	225
							COLUMN TOTALS		226	1				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Hughitt (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
310+54 AH	31053.997	0.00	115.26	0	0.00	0	0	0	0	0	0	0	0	0
310+75	31075	21.00	144.59	0	0.00	101	0	0	101	0	101	0	0	101
311+00 BK	31100	25.00	138.84	0.04	0.00	131	0	0	131	0	232	0	0	
							COLUMN TOTALS		232	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Hughitt (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
307+80 AH	30780.01	0.00	88.23	1.53	0.00	0	0	0	0	0	0	0	0	0
308+00	30800	19.99	89.53	1.74	0.00	66	1	0	66	2	66	1	0	65
308+25	30825	25.00	102.72	3.61	0.00	89	2	0	89	3	155	4	0	151
308+50	30850	25.00	121.77	3.98	0.00	104	4	0	104	5	259	7	0	252
308+75	30875	25.00	129.82	2.07	0.00	116	3	0	116	4	375	10	0	365
309+00 BK	30900	25.00	134.99	0.59	0.00	123	1	0	123	2	498	11	0	487
							COLUMN TOTALS		498	15				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Hughitt (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
311+00 AH	31100	0.00	138.84	0.04	0.00	0	0	0	0	0	0	0	0	0
311+25	31125	25.00	145.83	0	0.00	132	0	0	132	0	132	0	0	132
311+50	31150	25.00	165.99	0	0.00	144	0	0	144	0	276	0	0	276
311+75	31175	25.00	106.25	2.19	0.00	126	1	0	126	1	402	1	0	401
312+00	31200	25.00	91.80	3.45	0.00	92	3	0	92	3	494	4	0	490
312+20 BK	31219.5	19.50	113.89	1.56	0.00	74	2	0	74	2	568	5	0	563
							COLUMN TOTALS		568	7				

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PROJECT ID 8998-00-24
DIVISION 1A - CAT 0010 Hammond (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
327+75 AH	32775	0.00	0.00	0	0.00	0	0	0	0	0	0	0	0	0
328+00	32800	25.00	184.66	0.11	0.00	85	0	0	85	0	85	0	0	85
328+25	32825	25.00	197.31	0	0.00	177	0	0	177	0	262	0	0	262
328+50	32850	25.00	196.76	0	0.00	182	0	0	182	0	445	0	0	445
328+75	32875	25.00	198.57	0	0.00	183	0	0	183	0	628	0	0	628
329+00	32900	25.00	206.64	0	0.00	188	0	0	188	0	815	0	0	815
329+15 BK	32914.954	14.95	199.93	0	0.00	113	0	0	113	0	928	0	0	928
							COLUMN TOTALS		928	0				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Hammond (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
329+15 AH	32914.954	0.00	199.93	0	0.00	0	0	0	0	0	0	0	0	0
329+25	32925	10.05	203.56	0	0.00	75	0	0	75	0	75	0	0	75
329+46 BK	32946.029	21.03	205.72	0	0.00	159	0	0	159	0	234	0	0	234
							COLUMN TOTALS		234	0				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Hammond (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
330+54 AH	33054.008	0.00	163.24	1.33	0.00	0	0	0	0	0	0	0	0	0
330+75	33075	20.99	205.12	0.04	0.00	143	1	0	143	1	143	1	0	143
331+00 BK	33100	25.00	204.58	0	0.00	190	0	0	190	0	333	1	0	332
							COLUMN TOTALS		333	1				

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PROJECT NO: 86800071 | HWY: USH 2 | COUNTY: DOUGLAS | COMPUTER EARTHWORK DATA | SHEET 855 | E

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Cumming (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
339+00 AH	33900	0.00	180.16	0	0.00	0	0	0	0	0	0	0	0	0
339+25	33925	25.00	181.79	0	0.00	168	0	0	168	0	168	0	0	168
339+46 BK	33945.98	20.98	111.51	0.07	0.00	114	0	0	114	0	282	0	0	281
						COLUMN TOTALS			282	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Cumming (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
340+54 AH	34054	0.00	125.77	1.4	0.00	0	0	0	0	0	0	0	0	0
340+75	34075	21.00	154.96	0.07	0.00	109	1	0	109	1	109	1	0	109
340+95 BK	34094.902	19.90	140.90	0	0.00	109	0	0	109	0	218	1	0	218
						COLUMN TOTALS			218	1				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Cumming (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
337+90 AH	33790.025	0.00	86.71	7.88	0.00	0	0	0	0	0	0	0	0	0
338+00	33800	9.97	92.02	6.86	0.00	33	3	0	33	4	33	3	0	30
338+25	33825	25.00	116.38	0.13	0.00	96	3	0	96	4	129	6	0	124
338+50	33850	25.00	171.15	0	0.00	133	0	0	133	0	263	6	0	257
338+75	33875	25.00	180.22	0	0.00	163	0	0	163	0	425	6	0	419
339+00 BK	33900	25.00	180.16	0	0.00	167	0	0	167	0	592	6	0	586
						COLUMN TOTALS			592	8				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Cumming (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
340+95 AH	34094.902	0.00	140.90	0	0.00	0	0	0	0	0	0	0	0	0
341+00	34100	5.10	142.92	0	0.00	27	0	0	27	0	27	0	0	27
341+25	34125	25.00	139.69	0.02	0.00	131	0	0	131	0	158	0	0	158
341+50	34150	25.00	136.36	0	0.00	128	0	0	128	0	285	0	0	285
341+75	34175	25.00	127.61	0	0.00	122	0	0	122	0	408	0	0	408
342+00	34200	25.00	110.07	0.84	0.00	110	0	0	110	1	518	0	0	517
342+25	34225	25.00	107.98	1.2	0.00	101	1	0	101	1	619	1	0	617
342+50	34250	25.00	124.85	0.11	0.00	108	1	0	108	1	726	2	0	724
342+57 BK	34256.5	6.50	112.19	0.33	0.00	29	0	0	29	0	755	2	0	753
						COLUMN TOTALS			755	3				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Baxter (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
348+95 AH	34894.939	0.00	122.44	0.01	0.00	0	0	0	0	0	0	0	0	0
349+00	34900	5.06	124.01	0	0.00	23	0	0	23	0	23	0	0	23
349+25	34925	25.00	146.97	0	0.00	125	0	0	125	0	149	0	0	149
349+46 BK	34945.996	21.00	145.62	0	0.00	114	0	0	114	0	262	0	0	262
						COLUMN TOTALS			262	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Baxter (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
350+54 AH	35054.01	0.00	160.34	0.65	0.00	0	0	0	0	0	0	0	0	0
350+75	35075	20.99	343.20	0	0.00	196	0	0	196	0	196	0	0	195
351+00 BK	35100	25.00	304.40	0	0.00	300	0	0	300	0	496	0	0	495
						COLUMN TOTALS			496	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Baxter (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
347+79 AH	34778.64	0.00	81.45	1.35	0.00	0	0	0	0	0	0	0	0	0
348+00	34800	21.36	91.75	0.92	0.00	69	1	0	69	1	69	1	0	68
348+25	34825	25.00	108.46	1.04	0.00	93	1	0	93	1	161	2	0	159
348+50	34850	25.00	124.27	0	0.00	108	0	0	108	1	269	2	0	267
348+75	34875	25.00	119.78	0.21	0.00	113	0	0	113	0	382	2	0	380
348+95 BK	34894.939	19.94	122.44	0.01	0.00	89	0	0	89	0	471	2	0	469
						COLUMN TOTALS			471	3				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Baxter (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
351+00 AH	35100	0.00	304.40	0	0.00	0	0	0	0	0	0	0	0	0
351+25	35125	25.00	290.53	0	0.00	275	0	0	275	0	275	0	0	275
351+50	35150	25.00	284.79	0	0.00	266	0	0	266	0	542	0	0	542
351+75	35174.78	24.78	255.68	0.01	0.00	248	0	0	248	0	790	0	0	790
352+00	35200	25.22	118.91	0	0.00	175	0	0	175	0	965	0	0	965
352+25	35225	25.00	160.69	0	0.00	129	0	0	129	0	1094	0	0	1094
352+28 BK	35228.292	3.29	161.82	0	0.00	20	0	0	20	0	1114	0	0	1114
						COLUMN TOTALS			1114	0				

PROJECT ID 8998-00-24
DIVISION 1A - CAT 0010 Grand (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
100+51 AH	10050.739	0.00	158.14	0	0.00	0	0	0	0	0	0	0	0	0
100+75	10075	24.26	143.28	0.13	0.00	135	0	0	135	0	135	0	0	135
101+00	10100	25.00	120.60	0.52	0.00	122	0	0	122	0	258	0	0	257
101+25	10125	25.00	112.27	0.84	0.00	108	1	0	108	1	365	1	0	364
101+50	10150	25.00	97.27	4.2	0.00	97	2	0	97	3	462	4	0	458
101+67 BK	10166.5	16.50	96.82	1.81	0.00	59	2	0	59	2	522	7	0	515
						COLUMN TOTALS			522	7				

PROJECT ID 8998-00-24
DIVISION 1A - CAT 0010 Grand (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
371+10 AH	37109.896	0.00	199.97	0.6	0.00	0	0	0	0	0	0	0	0	0
371+25	37125	15.10	183.32	0.09	0.00	107	0	0	107	0	107	0	0	107
371+50	37150	25.00	174.35	0.66	0.00	166	0	0	166	0	273	1	0	272
371+75	37175	25.00	173.12	0.27	0.00	161	0	0	161	1	434	1	0	432
372+00	37200	25.00	173.32	0.04	0.00	160	0	0	160	0	594	1	0	593
372+07 BK	37207	7.00	0.00	0	0.00	22	0	0	22	0	617	1	0	615
						COLUMN TOTALS			617	1				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Grand (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
370+59 AH	37059.05	0.00	258.39	0	0.00	0	0	0	0	0	0	0	0	0
370+75	37075	15.95	245.89	0	0.00	149	0	0	149	0	149	0	0	149
371+00	37100	25.00	214.80	0	0.00	213	0	0	213	0	362	0	0	362
371+10 BK	37109.896	9.90	199.97	0.6	0.00	76	0	0	76	0	438	0	0	438
						COLUMN TOTALS			438	0				

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PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Lamborn (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
358+85 AH	35884.9	0.00	187.12	0.22	0.00	0	0	0	0	0	0	0	0	0
359+00	35900	15.10	176.41	0	0.00	102	0	0	102	0	102	0	0	102
359+25	35925	25.00	186.93	0	0.00	168	0	0	168	0	270	0	0	270
359+35 BK	35935	10.00	175.71	0	0.00	67	0	0	67	0	337	0	0	337
						COLUMN TOTALS			337	0				

PROJECT ID 8998-00-24

DIVISION 1A - CAT 0010 Lamborn (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
357+79 AH	35779	0.00	99.51	1.11	0.00	0	0	0	0	0	0	0	0	0
358+00	35800	21.00	134.47	2.79	0.00	91	2	0	91	2	91	2	0	89
358+25	35825	25.00	250.47	0.03	0.00	178	1	0	178	2	269	4	0	266
358+50	35850	25.00	309.88	0	0.00	259	0	0	259	0	529	4	0	525
358+75	35875	25.00	213.02	0.08	0.00	242	0	0	242	0	771	4	0	767
358+85 BK	35884.9	9.90	187.12	0.22	0.00	73	0	0	73	0	844	4	0	840
						COLUMN TOTALS			844	4				

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PROJECT NO: 86800071	HWY: USH 2	COUNTY: DOUGLAS	COMPUTER EARTHWORK DATA	SHEET 859	E

FILE NAME : P:\UZ\W\Wltnw\122503\C3d\86800071\SheetsPlan\Computer Earthwork Data\090100_ew.dwg PLOT DATE : 8/1/2016 4:16 PM PLOT BY : SEH INC LAYOUT NAME : 090113_EW (LAMBORN LOT SCALE : NTS

WISDOT/CADDS SHEET 49

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Weeks (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
380+60 AH	38060.05	0.00	131.02	0	0.00	0	0	0	0	0	0	0	0	0
380+75	38075	14.95	152.82	0	0.00	79	0	0	79	0	79	0	0	79
380+85 BK	38084.906	9.91	162.38	0	0.00	58	0	0	58	0	136	0	0	136
						COLUMN TOTALS			136	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Weeks (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
380+85 AH	38084.906	0.00	162.38	0	0.00	0	0	0	0	0	0	0	0	0
381+00	38100	15.09	159.28	0	0.00	90	0	0	90	0	90	0	0	90
381+25	38125	25.00	158.99	0	0.00	147	0	0	147	0	237	0	0	237
381+50	38150	25.00	147.45	0	0.00	142	0	0	142	0	379	0	0	379
381+75	38175	25.00	134.84	0.09	0.00	131	0	0	131	0	510	0	0	510
382+00	38200	25.00	128.18	0	0.00	122	0	0	122	0	632	0	0	632
382+25	38225	25.00	112.45	0.01	0.00	111	0	0	111	0	743	0	0	743
382+50 BK	38249.95	24.95	106.91	0	0.00	101	0	0	101	0	844	0	0	844
						COLUMN TOTALS			844	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Clough (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
389+00 AH	38900	0.00	103.65	0.7	0.00	0	0	0	0	0	0	0	0	0
389+25	38925	25.00	118.84	0	0.00	103	0	0	103	0	103	0	0	103
389+40 BK	38940	15.00	108.16	0	0.00	63	0	0	63	0	166	0	0	166
						COLUMN TOTALS			166	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Clough (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
387+25 AH	38725.01	0.00	80.24	2.41	0.00	0	0	0	0	0	0	0	0	0
387+50	38750	24.99	100.03	0.31	0.00	83	1	0	83	2	83	2	0	82
387+75	38775	25.00	119.06	0.05	0.00	101	0	0	101	0	185	2	0	183
388+00	38800	25.00	115.89	6.83	0.00	109	3	0	109	4	294	6	0	288
388+25	38825	25.00	95.47	4.68	0.00	98	5	0	98	7	391	13	0	379
388+50	38850	25.00	127.46	0	0.00	103	2	0	103	3	495	16	0	479
388+75	38875	25.00	105.61	0.29	0.00	108	0	0	108	0	603	16	0	587
389+00 BK	38900	25.00	103.65	0.7	0.00	97	0	0	97	1	699	17	0	683
						COLUMN TOTALS			699	17				

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PROJECT NO: 86800071	HWY: USH 2	COUNTY: DOUGLAS	COMPUTER EARTHWORK DATA	SHEET	E

FILE NAME : P:\UZ\W\Wltnw\122503\C3d\86800071\SheetsPlan\Computer Earthwork Data\090100_ew.dwg PLOT DATE : 8/1/2016 4:16 PM PLOT BY : SEH INC LAYOUT NAME : 090115_EW (CLOUGH) PLOT SCALE : NTS

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Fisher (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
398+51 AH	39850.977	0.00	156.22	2.01	0.00	0	0	0	0	0	0	0	0	0
398+75	39875	24.02	153.83	3.31	0.00	138	2	0	138	3	138	3	0	135
399+00	39900	25.00	158.23	2.7	0.00	144	3	0	144	4	282	7	0	276
399+25	39925	25.00	169.35	5.78	0.00	152	4	0	152	5	434	12	0	422
399+41 BK	39941	16.00	162.99	25.74	0.00	98	9	0	98	12	533	24	0	509
							COLUMN TOTALS		533	24				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Fisher (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
400+60 AH	40059.997	0.00	197.41	0	0.00	0	0	0	0	0	0	0	0	0
400+75	40075	15.00	201.53	0	0.00	111	0	0	111	0	111	0	0	111
401+00 BK	40100	25.00	184.41	0	0.00	179	0	0	179	0	290	0	0	290
							COLUMN TOTALS		290	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Fisher (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
401+00 AH	40100	0.00	184.41	0	0.00	0	0	0	0	0	0	0	0	0
401+25	40125	25.00	156.03	0	0.00	158	0	0	158	0	158	0	0	158
401+50	40150	25.00	168.68	0	0.00	150	0	0	150	0	308	0	0	308
401+75	40175	25.00	168.49	0	0.00	156	0	0	156	0	464	0	0	464
402+00	40200	25.00	169.13	0	0.00	156	0	0	156	0	620	0	0	620
402+15 BK	40215	15.00	113.66	0.24	0.00	79	0	0	79	0	699	0	0	699
							COLUMN TOTALS		699	0				

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PROJECT NO: 86800071 | HWY: USH 2 | COUNTY: DOUGLAS | COMPUTER EARTHWORK DATA | SHEET 862 | E

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Caitlin (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
408+00 AH	40800	0.00	151.45	0	0.00	0	0	0	0	0	0	0	0	0
408+25	40825	25.00	157.47	0	0.00	143	0	0	143	0	143	0	0	143
408+50	40850	25.00	154.15	0	0.00	144	0	0	144	0	287	0	0	287
408+75	40875	25.00	158.91	0	0.00	145	0	0	145	0	432	0	0	432
409+00	40900	25.00	143.55	0.01	0.00	140	0	0	140	0	572	0	0	572
409+25	40925	25.00	132.56	0.07	0.00	128	0	0	128	0	700	0	0	700
409+40 BK	40939.99	14.99	139.00	0.47	0.00	75	0	0	75	0	775	0	0	775
						COLUMN TOTALS			775	0				

PROJECT ID 8998-00-24

DIVISION 1A - CAT 0010 Caitlin (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
407+83 AH	40783	0.00	151.76	0	0.00	0	0	0	0	0	0	0	0	0
408+00 BK	40800	17.00	151.45	0	0.00	95	0	0	95	0	95	0	0	95
						COLUMN TOTALS			95	0				

PROJECT ID 8998-00-24

DIVISION 1A - CAT 0010 Caitlin (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
411+75 AH	41175	0.00	112.94	0	0.00	0	0	0	0	0	0	0	0	0
412+00	41200	25.00	81.66	2.84	0.00	90	1	0	90	2	90	1	0	89
412+25	41225	25.00	68.97	1.3	0.00	70	2	0	70	2	160	3	0	157
412+50 BK	41250	25.00	69.22	0.06	0.00	64	1	0	64	1	224	4	0	220
						COLUMN TOTALS			224	5				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Caitlin (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
410+60 AH	41060.05	0.00	43.30	0	0.00	0	0	0	0	0	0	0	0	0
410+75	41075	14.95	131.32	0	0.00	48	0	0	48	0	48	0	0	48
411+00	41100	25.00	111.14	0	0.00	112	0	0	112	0	161	0	0	161
411+25	41125	25.00	118.18	0	0.00	106	0	0	106	0	267	0	0	267
411+50	41150	25.00	126.91	0	0.00	113	0	0	113	0	380	0	0	380
411+75 BK	41175	25.00	112.94	0	0.00	111	0	0	111	0	491	0	0	491
						COLUMN TOTALS			491	0				

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PROJECT NO: 86800071 | HWY: USH 2 | COUNTY: DOUGLAS | COMPUTER EARTHWORK DATA | SHEET | E

FILE NAME : P:\UZ\W\Wltnw\122503\C3d\86800071\SheetsPlan\Computer Earthwork Data\090100_ew.dwg PLOT DATE : 8/1/2016 4:16 PM PLOT BY : SEH INC LAYOUT NAME : 090117_EW (CAITLIN)PLOT SCALE : NTS

WISDOT/CADDS SHEET 49

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Birch (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
420+60 AH	42060.09	0.00	133.67	0	0.00	0	0	0	0	0	0	0	0	0
420+75 BK	42075	14.91	137.21	0	0.00	75	0	0	75	0	75	0	0	75
							COLUMN TOTALS		75	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Birch (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
420+75 AH	42075	0.00	137.21	0	0.00	0	0	0	0	0	0	0	0	0
421+00	42100	25.00	136.03	0.06	0.00	127	0	0	127	0	127	0	0	126
421+25	42125	25.00	129.40	0.63	0.00	123	0	0	123	0	249	0	0	249
421+50	42150	25.00	122.79	0.37	0.00	117	0	0	117	1	366	1	0	365
421+75	42175	25.00	114.87	0.28	0.00	110	0	0	110	0	476	1	0	475
422+00	42200	25.00	114.89	0.49	0.00	106	0	0	106	0	583	2	0	581
422+15 BK	42215	15.00	113.08	0.2	0.00	63	0	0	63	0	646	2	0	644
							COLUMN TOTALS		646	2				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Cypress (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
430+50 AH	43050.01	0.00	113.81	3.5	0.00	0	0	0	0	0	0	0	0	0
430+61 BK	43060.764	10.75	233.24	0	0.00	69	1	0	69	1	69	1	0	68
							COLUMN TOTALS		69	1				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Cypress (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
430+61 AH	43060.764	0.00	233.24	0	0.00	0	0	0	0	0	0	0	0	0
430+75	43075	14.24	246.88	0	0.00	127	0	0	127	0	127	0	0	127
431+00	43100	25.00	200.00	0.01	0.00	207	0	0	207	0	333	0	0	333
431+25	43125	25.00	167.62	0	0.00	170	0	0	170	0	504	0	0	504
431+50	43150	25.00	176.60	0.21	0.00	159	0	0	159	0	663	0	0	663
431+75	43175	25.00	111.63	1.34	0.00	133	1	0	133	1	796	1	0	795
431+87	43187	12.00	139.56	0	0.00	56	0	0	56	0	852	1	0	851
432+00	43200	13.00	102.79	0.02	0.00	58	0	0	58	0	911	1	0	909
432+25	43225	25.00	91.78	7.28	0.00	90	3	0	90	4	1001	6	0	995
432+50	43250	25.00	85.75	8.6	0.00	82	7	0	82	10	1083	15	0	1067
432+60 BK	43260	10.00	60.73	1.33	0.00	27	2	0	27	2	1110	18	0	1092
							COLUMN TOTALS		1110	18				

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PROJECT NO: 86800071	HWY: USH 2	COUNTY: DOUGLAS	COMPUTER EARTHWORK DATA	SHEET	E

FILE NAME : P:\UZ\W\Witnw\122503\C3d\86800071\SheetsPlan\Computer Earthwork Data\090100_ew.dwg PLOT DATE : 8/1/2016 4:16 PM PLOT BY : SEH INC LAYOUT NAME : 090119_EW (CYPRESS) PLOT SCALE : NTS

WISDOT/CADDS SHEET 49

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Mertz Mortorelli (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
438+50 AH	43850	0.00	130.00	17.38	0.00	0	0	0	0	0	0	0	0	0
438+75	43875	25.00	155.82	15.76	0.00	132	15	0	132	20	132	20	0	112
439+00	43900	25.00	200.94	5.87	0.00	165	10	0	165	13	297	33	0	265
439+25	43925	25.00	192.91	5.06	0.00	182	5	0	182	7	480	40	0	440
439+34 BK	43934.012	9.01	203.86	4.23	0.00	66	2	0	66	2	546	42	0	504
							COLUMN TOTALS		546	42				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Mertz Mortorelli (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
437+75 AH	43775.45	0.00	122.76	2.21	0.00	0	0	0	0	0	0	0	0	0
438+00	43800	24.55	117.97	8.19	0.00	109	5	0	109	6	109	6	0	103
438+25	43825	25.00	119.66	16.87	0.00	110	12	0	110	15	219	21	0	198
438+50 BK	43850	25.00	130.00	17.38	0.00	116	16	0	116	21	335	42	0	293
							COLUMN TOTALS		335	42				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Poplar (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
450+60 AH	45060.01	0.00	192.57	6.75	0.00	0	0	0	0	0	0	0	0	0
450+75	45075	14.99	155.42	3.39	0.00	97	3	0	97	4	97	4	0	93
451+00	45100	25.00	143.93	0.99	0.00	139	2	0	139	3	235	6	0	229
451+25 BK	45125	25.00	181.49	2.22	0.00	151	1	0	151	2	386	8	0	378
							COLUMN TOTALS		386	8				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0070 Poplar (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
451+25 AH	45125	0.00	181.49	2.22	0.00	0	0	0	0	0	0	0	0	0
451+50	45150	25.00	181.87	0	0.00	168	1	0	168	1	168	1	0	167
451+75	45175	25.00	131.16	0.59	0.00	145	0	0	145	0	313	2	0	311
452+00	45200	25.00	97.50	4.38	0.00	106	2	0	106	3	419	5	0	414
452+25	45225	25.00	92.25	2.35	0.00	88	3	0	88	4	507	9	0	498
452+30 BK	45230	5.00	0.00	0	0.00	9	0	0	9	0	515	9	0	506
							COLUMN TOTALS		515	9				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Pine (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
460+60 AH	46060.002	0.00	121.86	0	0.00	0	0	0	0	0	0	0	0	0
460+75	46075	15.00	134.26	0	0.00	71	0	0	71	0	71	0	0	71
461+00 BK	46100	25.00	127.79	0.3	0.00	121	0	0	121	0	192	0	0	192
						COLUMN TOTALS			192	0				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Pine (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
461+00 AH	46100	0.00	127.79	0.3	0.00	0	0	0	0	0	0	0	0	0
461+25	46125	25.00	136.54	0.46	0.00	122	0	0	122	0	122	0	0	122
461+50	46150	25.00	149.56	0	0.00	132	0	0	132	0	255	1	0	254
461+75 BK	46174.99	24.99	99.79	0.63	0.00	115	0	0	115	0	370	1	0	369
						COLUMN TOTALS			370	1				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Elm (South)

STATION		Real Station	Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	Fill	EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	Fill Factor 1.30	Cumulative Vol (CY) Cut	Fill	EBS	Mass Ordinate
469+00	AH	46900	0.00	146.58	0	0.00	0	0	0	0	0	0	0	0	0
469+25		46925	25.00	334.90	0	0.00	223	0	0	223	0	223	0	0	223
469+41	BK	46941.15	16.15	190.46	1.37	0.00	157	0	0	157	1	380	1	0	379
								COLUMN TOTALS		380	1				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Elm (North)

STATION		Real Station	Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	Fill	EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	Fill Factor 1.30	Cumulative Vol (CY) Cut	Fill	EBS	Mass Ordinate
470+58	AH	47058	0.00	123.47	1.76	0.00	0	0	0	0	0	0	0	0	0
470+70		47069.998	12.00	108.24	5.6	0.00	51	2	0	51	2	51	2	0	49
470+75		47075	5.00	110.00	6.46	0.00	20	1	0	20	1	72	4	0	68
471+00	BK	47100	25.00	109.41	6.85	0.00	102	6	0	102	8	173	12	0	162
								COLUMN TOTALS		173	12				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0070 Elm (South)

STATION		Real Station	Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	Fill	EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	Fill Factor 1.30	Cumulative Vol (CY) Cut	Fill	EBS	Mass Ordinate
467+20	AH	46719.5	0.00	105.08	0.03	0.00	0	0	0	0	0	0	0	0	0
467+25		46725	5.50	108.56	0.38	0.00	22	0	0	22	0	22	0	0	22
467+34		46733.5	8.50	111.83	1.08	0.00	35	0	0	35	0	56	0	0	56
467+50		46750	16.50	118.64	0.22	0.00	70	0	0	70	1	127	1	0	126
467+59		46759	9.00	123.08	0.67	0.00	40	0	0	40	0	167	1	0	166
467+75		46775	16.00	126.75	0	0.00	74	0	0	74	0	241	1	0	240
468+00		46800	25.00	128.80	0	0.00	118	0	0	118	0	359	1	0	358
468+25		46825	25.00	130.44	0	0.00	120	0	0	120	0	480	1	0	478
468+50		46850	25.00	133.86	0	0.00	122	0	0	122	0	602	1	0	601
468+75		46875	25.00	138.07	0.1	0.00	126	0	0	126	0	728	1	0	726
469+00	BK	46900	25.00	146.58	0	0.00	132	0	0	132	0	860	1	0	858
								COLUMN TOTALS		860	1				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0070 Elm (North)

STATION		Real Station	Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	Fill	EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	Fill Factor 1.30	Cumulative Vol (CY) Cut	Fill	EBS	Mass Ordinate
471+00	AH	47100	0.00	109.41	6.85	0.00	0	0	0	0	0	0	0	0	0
471+25		47125	25.00	104.96	4.42	0.00	99	5	0	99	7	99	7	0	92
471+39		47139	14.00	102.15	2.5	0.00	54	2	0	54	2	153	9	0	144
471+50		47150	11.00	100.63	0.84	0.00	41	1	0	41	1	194	10	0	184
471+62		47162	12.00	95.46	7.79	0.00	44	2	0	44	2	238	12	0	225
471+75		47175	13.00	92.73	1.89	0.00	45	2	0	45	3	283	16	0	268
471+86		47186	11.00	87.80	0.3	0.00	37	0	0	37	1	320	16	0	304
472+00		47200	14.00	87.82	0.31	0.00	46	0	0	46	0	365	16	0	349
472+15	BK	47215	15.00	84.20	2.24	0.00	48	1	0	48	1	413	17	0	396
								COLUMN TOTALS		413	17				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0010 Cedar (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
480+60 AH	48059.998	0.00	176.60	0	0.00	0	0	0	0	0	0	0	0	0
480+75	48075	15.00	150.08	0	0.00	91	0	0	91	0	91	0	0	91
481+00 BK	48100	25.00	127.02	2.47	0.00	128	1	0	128	1	219	1	0	218
							COLUMN TOTALS		219	1				

PROJECT ID 8680-00-71

DIVISION 1A - CAT 0070 Cedar (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
481+00 AH	48100	0.00	127.02	2.47	0.00	0	0	0	0	0	0	0	0	0
481+25	48125	25.00	121.11	2.98	0.00	115	3	0	115	3	115	3	0	112
481+50	48150	25.00	127.89	2.62	0.00	115	3	0	115	3	230	7	0	224
481+75	48175	25.00	118.70	0.78	0.00	114	2	0	114	2	344	9	0	336
482+00	48200	25.00	95.63	1.13	0.00	99	1	0	99	1	444	10	0	434
482+15 BK	48215	15.00	91.62	0.04	0.00	52	0	0	52	0	496	10	0	485
							COLUMN TOTALS		496	10				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Hill (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
499+00 AH	49900	0.00	195.52	0	0.00	0	0	0	0	0	0	0	0	0
499+25	49925	25.00	145.80	0	0.00	158	0	0	158	0	158	0	0	158
499+27 BK	49926.7	1.70	145.56	0	0.00	9	0	0	9	0	167	0	0	167
						COLUMN TOTALS			167	0				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0010 Hill (North)

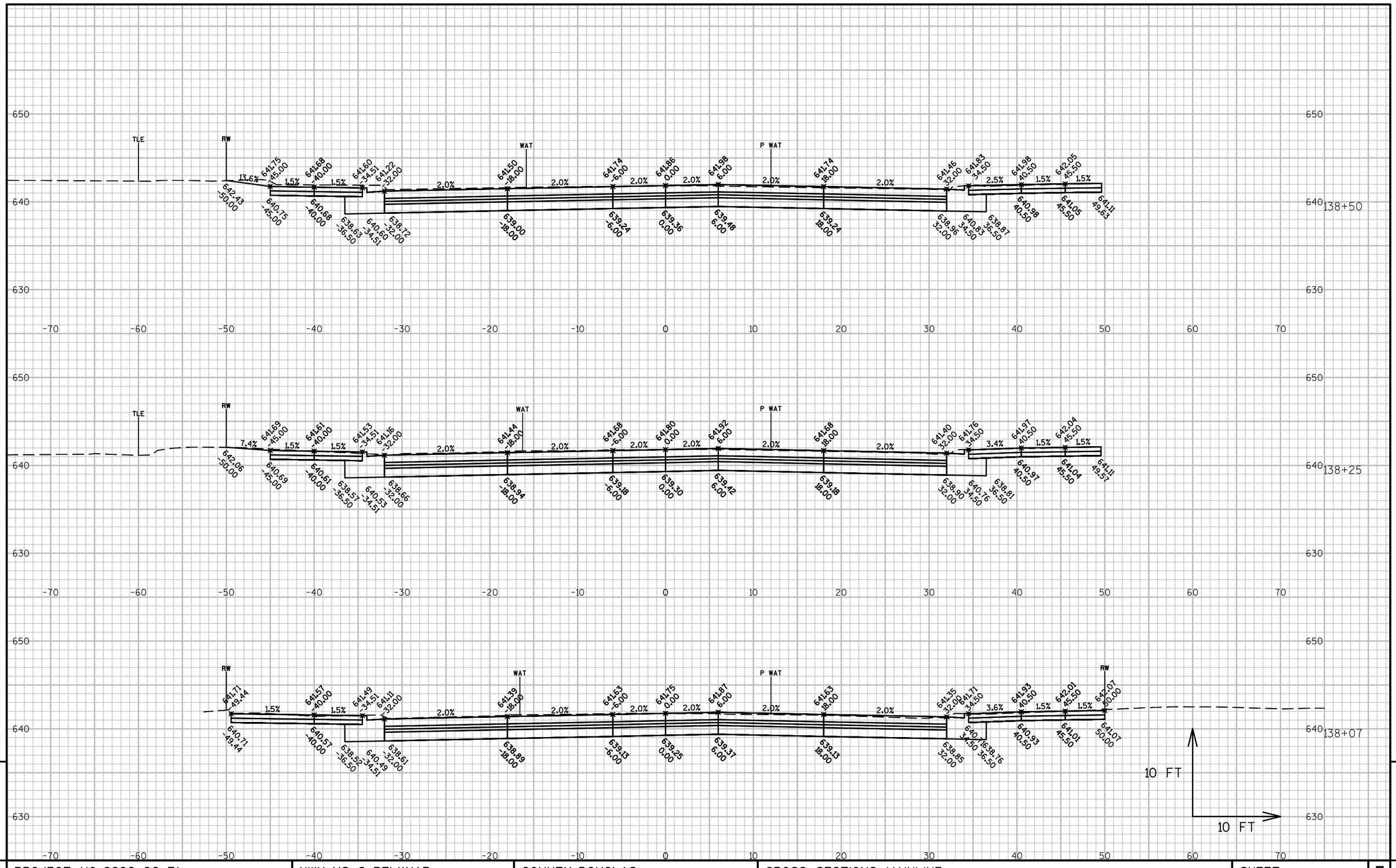
STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
500+65 AH	50065.139	0.00	178.38	0.04	0.00	0	0	0	0	0	0	0	0	0
500+75	50075	9.86	114.58	0	0.00	53	0	0	53	0	53	0	0	53
501+00 BK	50100	25.00	97.83	0.72	0.00	98	0	0	98	0	152	0	0	151
						COLUMN TOTALS			152	0				

PROJECT ID 8998-00-24
DIVISION 1A - CAT 0010 Hill (South)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
497+75 AH	49775.01	0.00	106.25	4.68	0.00	0	0	0	0	0	0	0	0	0
498+00	49800	24.99	127.89	1.94	0.00	108	3	0	108	4	108	4	0	104
498+25	49825	25.00	152.20	0.46	0.00	130	1	0	130	1	238	5	0	233
498+50	49850	25.00	137.11	0	0.00	134	0	0	134	0	372	6	0	366
498+75	49875	25.00	142.83	0	0.00	130	0	0	130	0	502	6	0	496
499+00 BK	49900	25.00	195.52	0	0.00	157	0	0	157	0	658	6	0	653
						COLUMN TOTALS			658	6				

PROJECT ID 8680-00-71
DIVISION 1A - CAT 0070 Hill (North)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.30	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
501+00 AH	50100	0.00	97.83	0.72	0.00	0	0	0	0	0	0	0	0	0
501+25	50125	25.00	108.45	0.31	0.00	96	0	0	96	1	96	1	0	95
501+50	50150	25.00	105.25	0.65	0.00	99	0	0	99	1	194	1	0	193
501+75	50175	25.00	124.28	0.51	0.00	106	1	0	106	1	301	2	0	299
501+84 BK	50184.2	9.20	116.80	1.22	0.00	41	0	0	41	0	342	2	0	339
						COLUMN TOTALS			342	2				

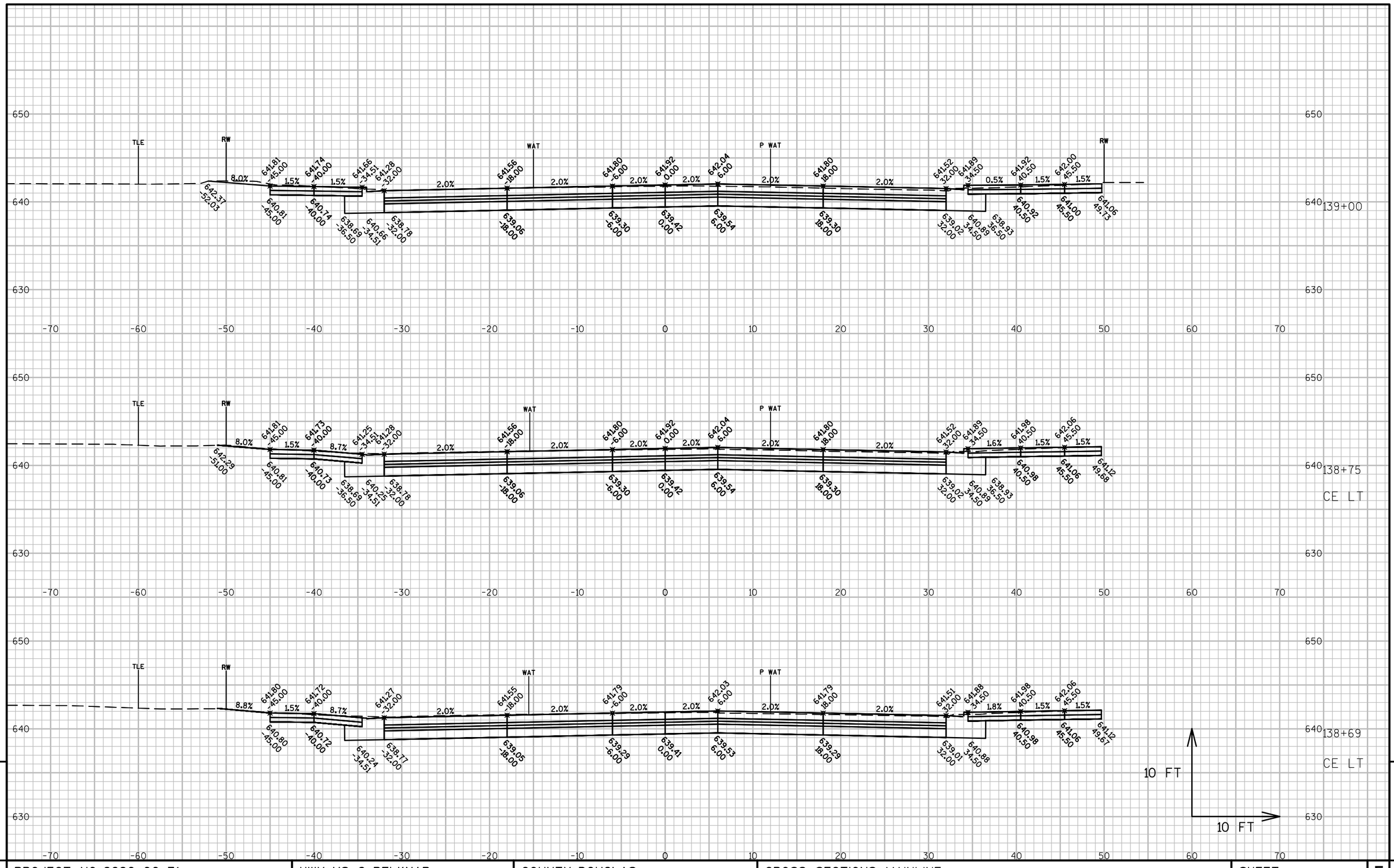


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 872	E

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LAYOUT NAME - 090201-XS

PLOT DATE : 10/21/2016 8:56 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



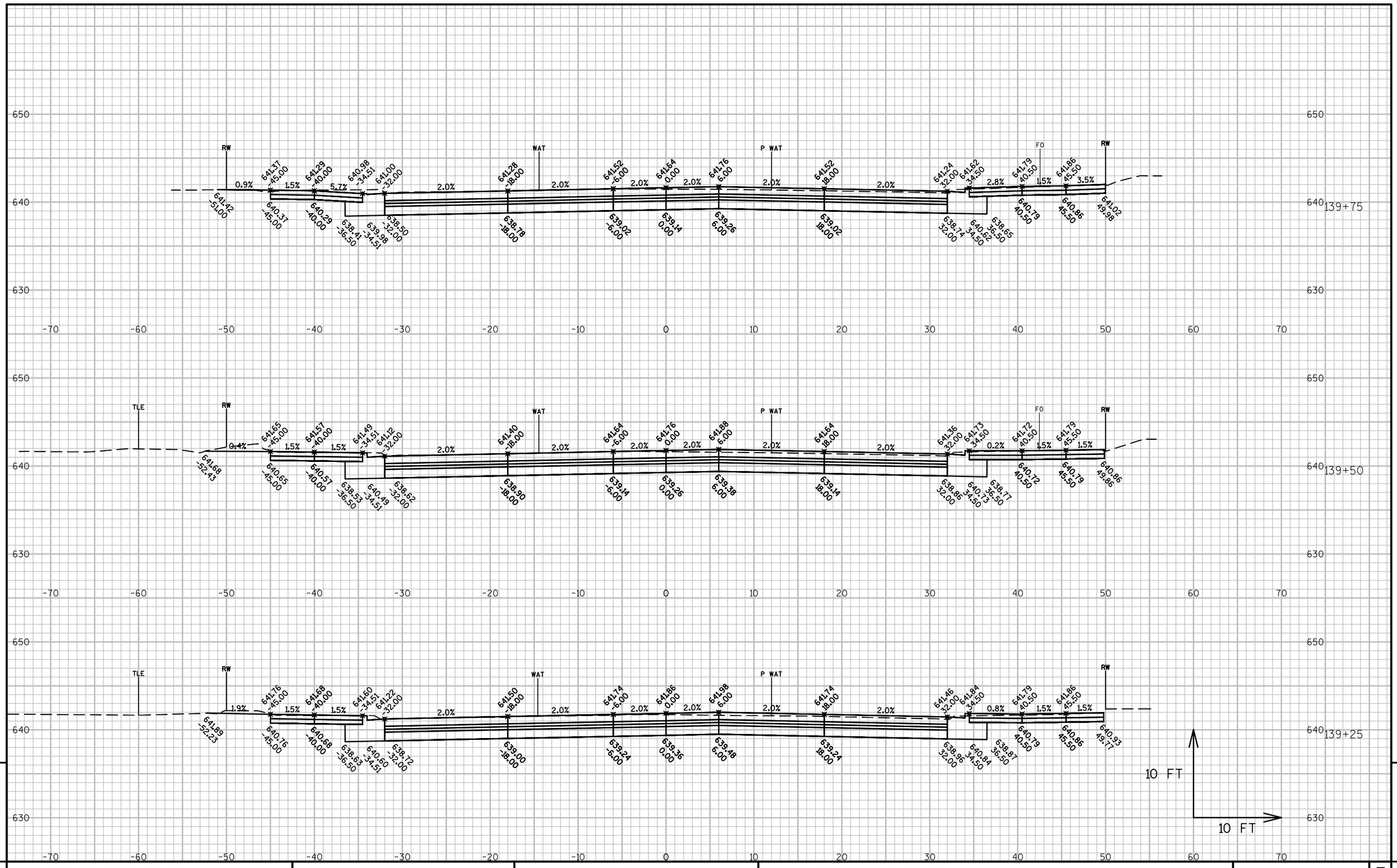
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 873	E

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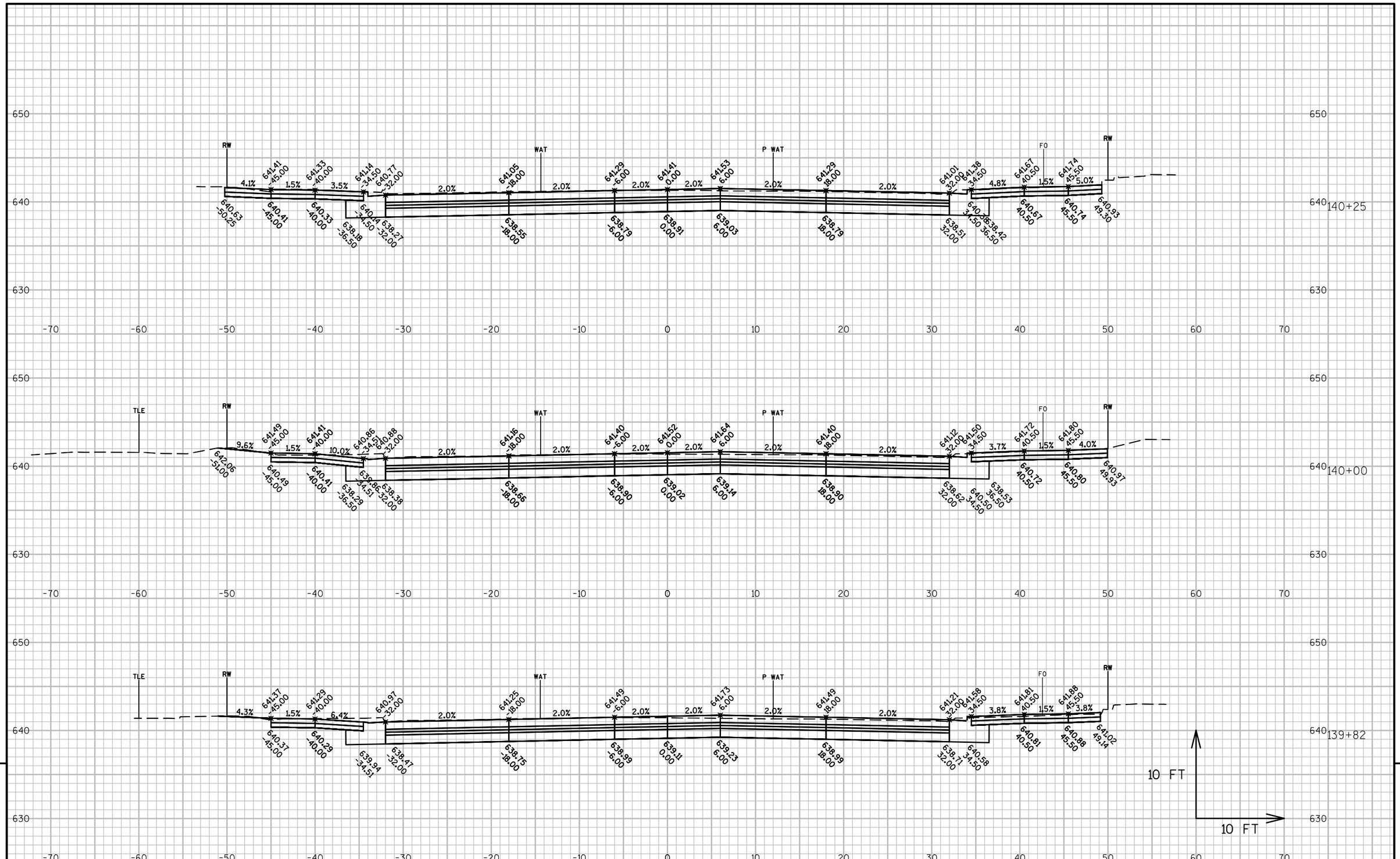
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 874	E

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PLOT DATE : 10/21/2016 9:14 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

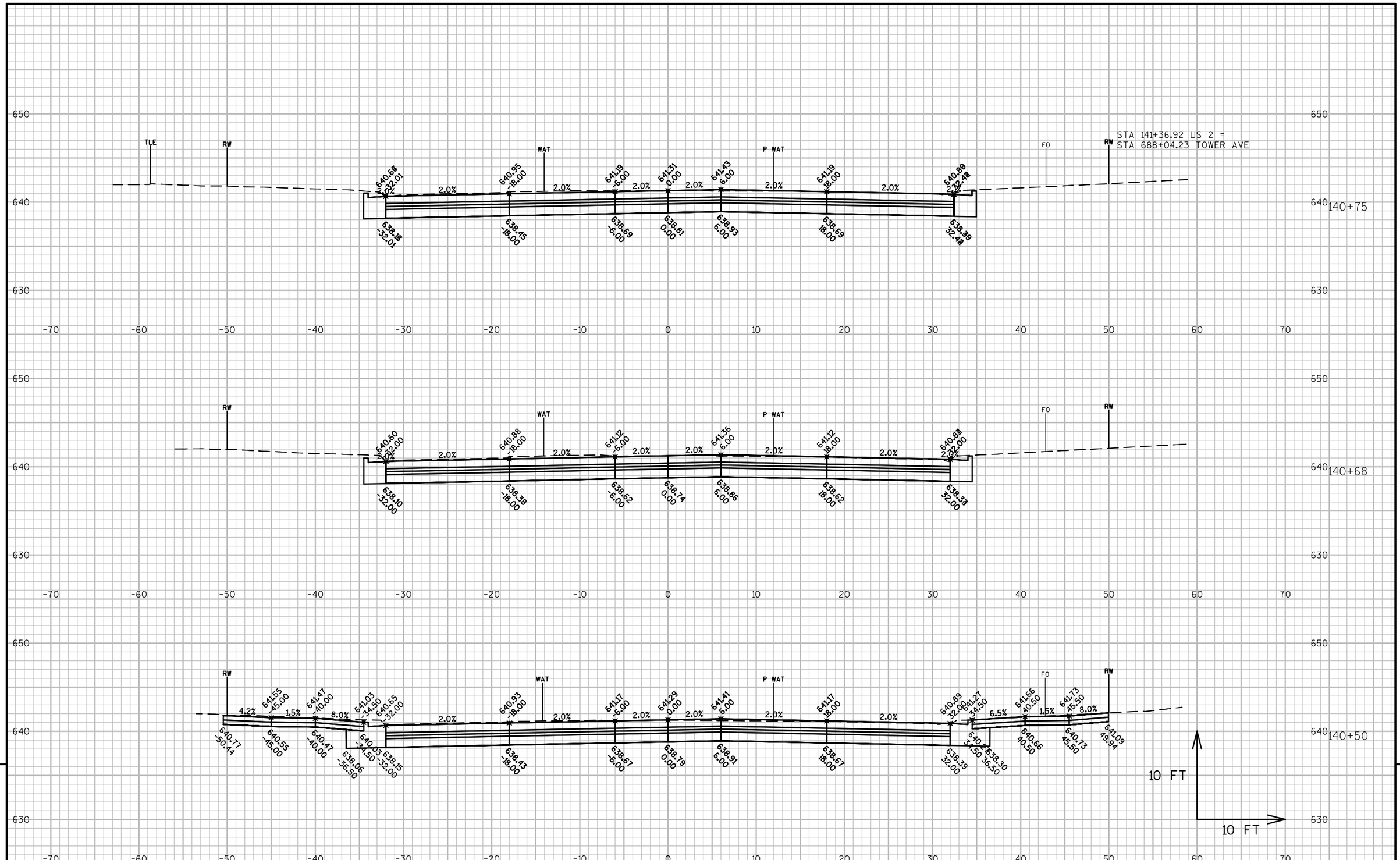
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 875	E

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LAYOUT NAME - 090204-XS

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WISDOT/CADDS SHEET 49



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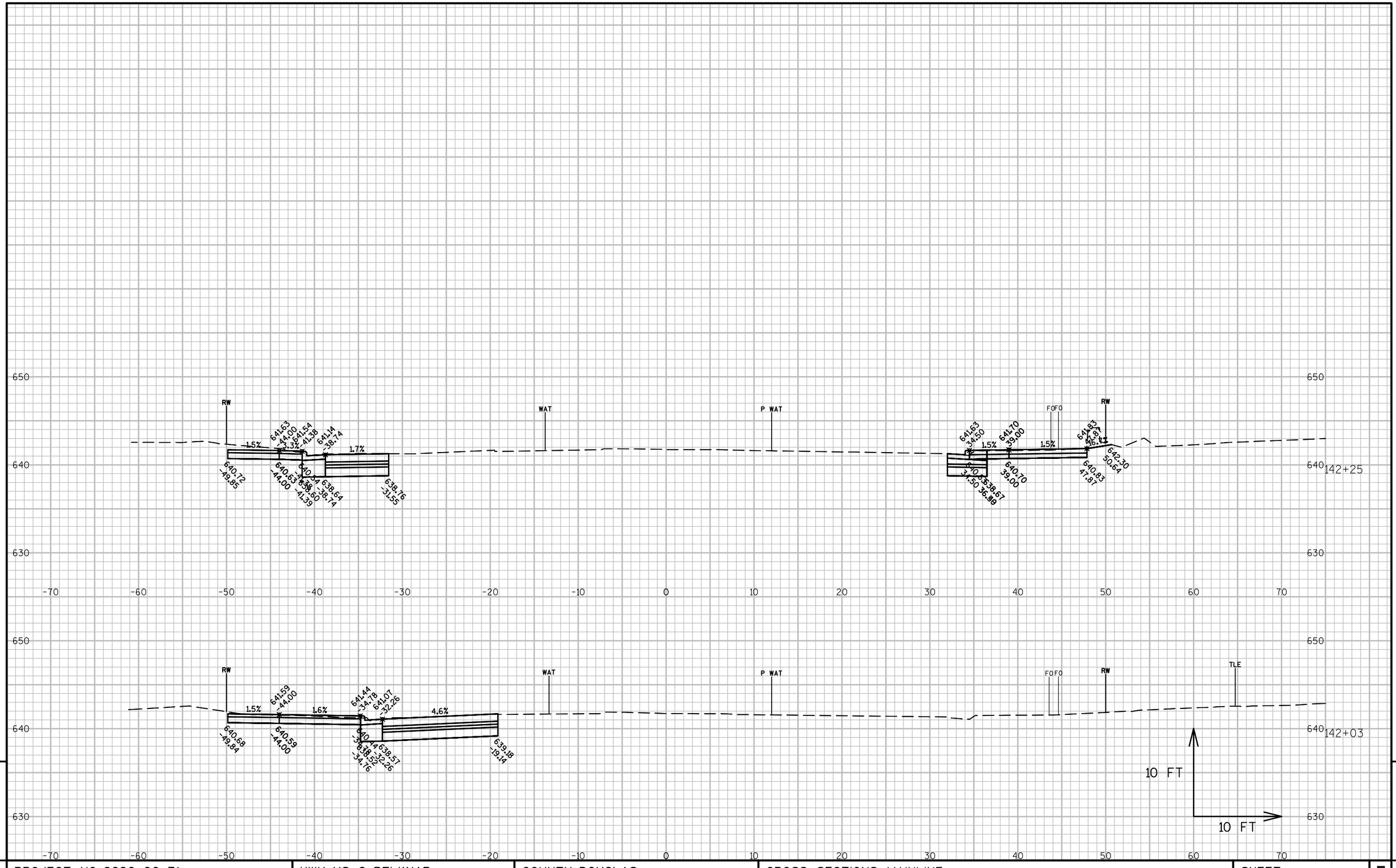
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 876	E

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PLOT DATE : 10/21/2016 9:17 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



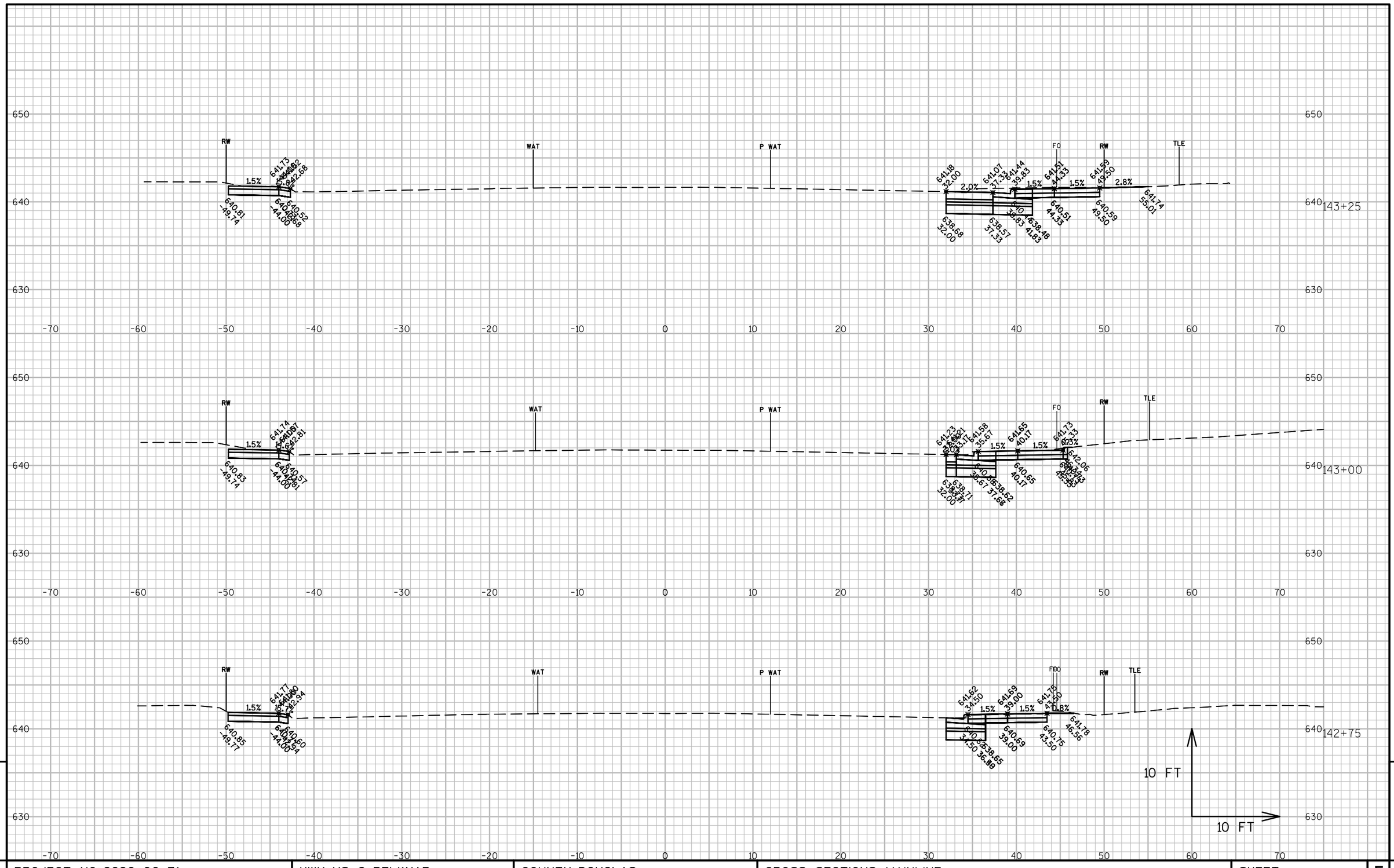
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 877	E

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LAYOUT NAME - 090206-XS

PLOT DATE : 10/21/2016 9:18 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

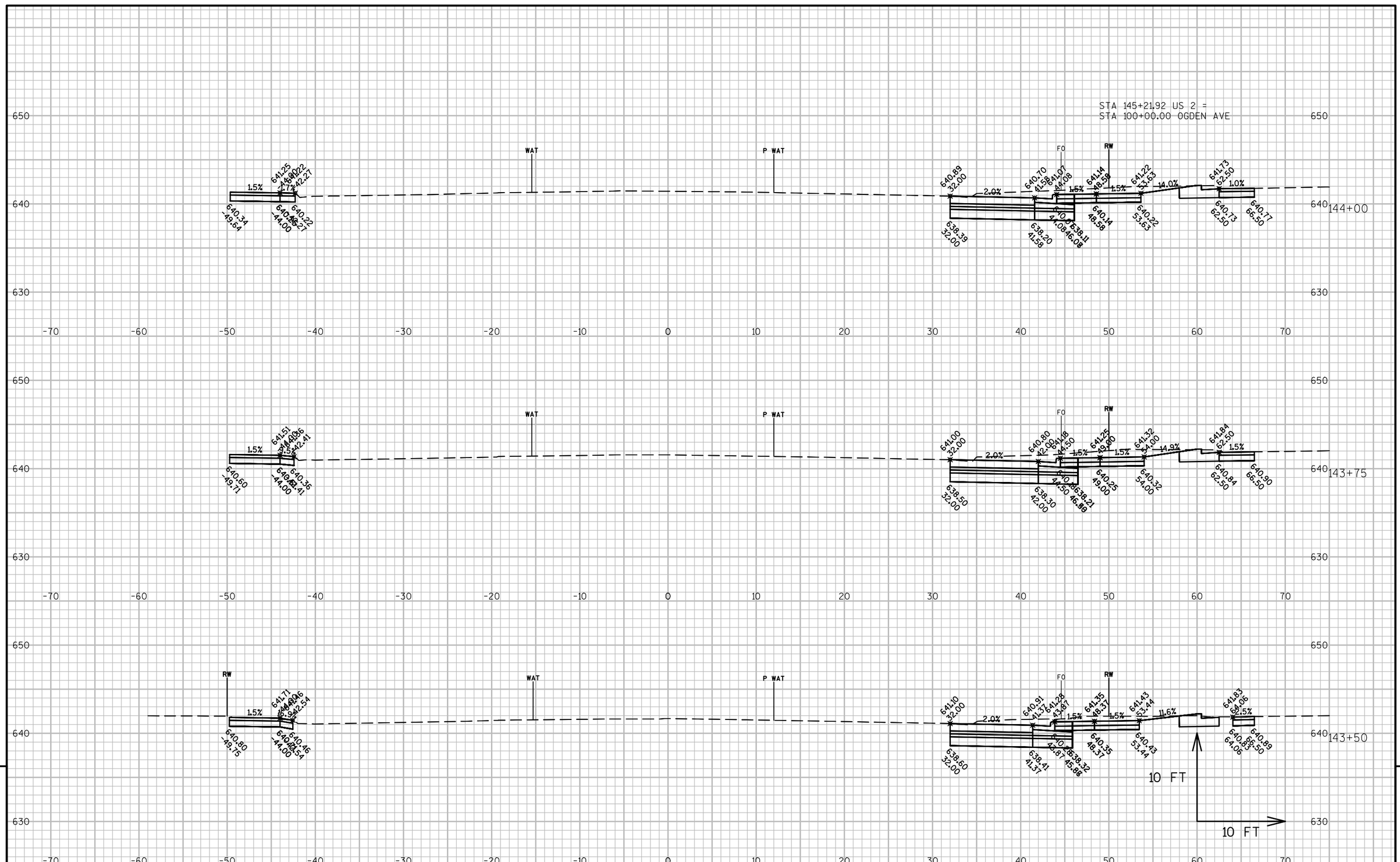


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 878	E

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PLOT DATE : 10/21/2016 9:22 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

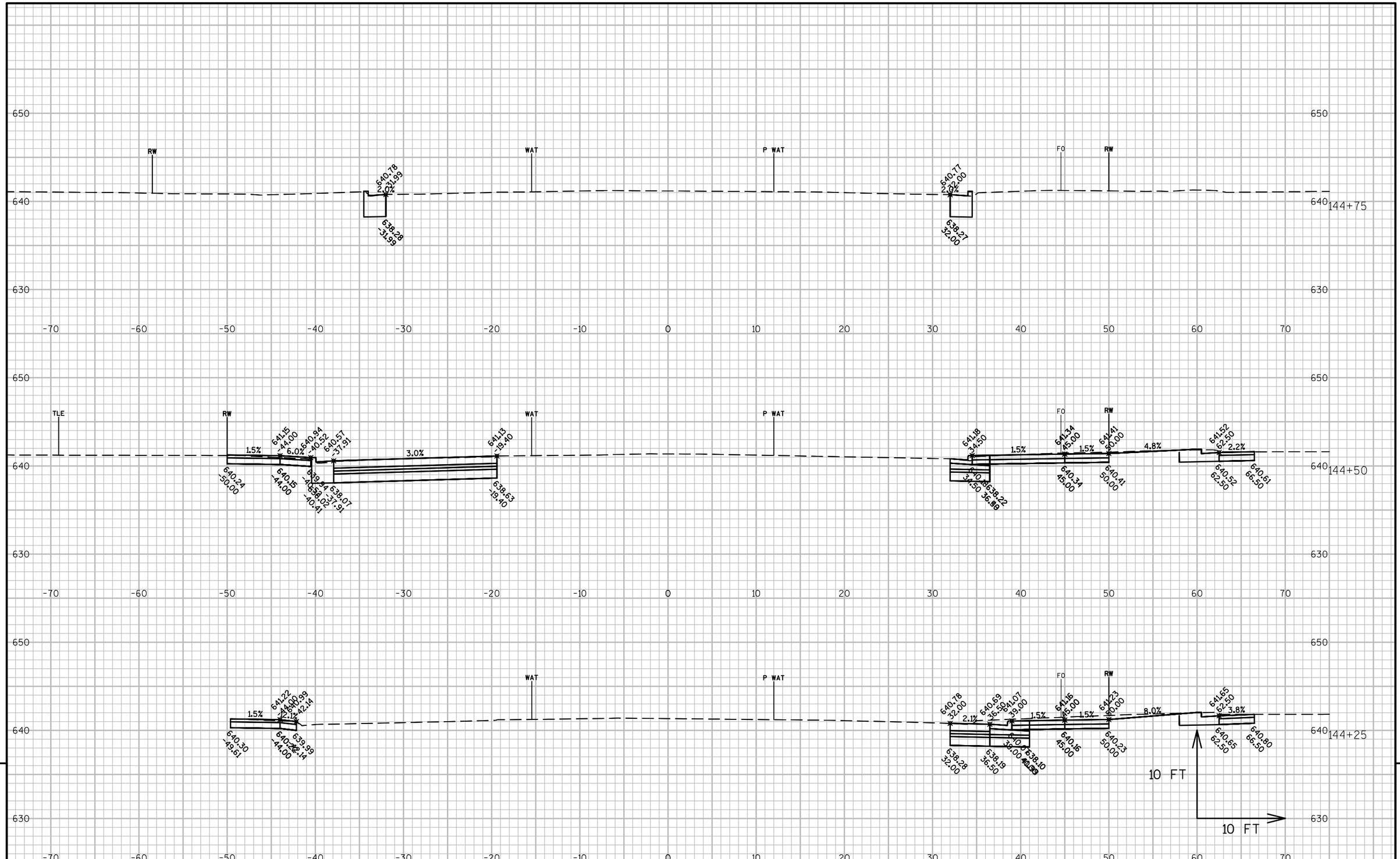
STA 145+21.92 US 2 =
STA 100+00.00 OGDEN AVE



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 879	E

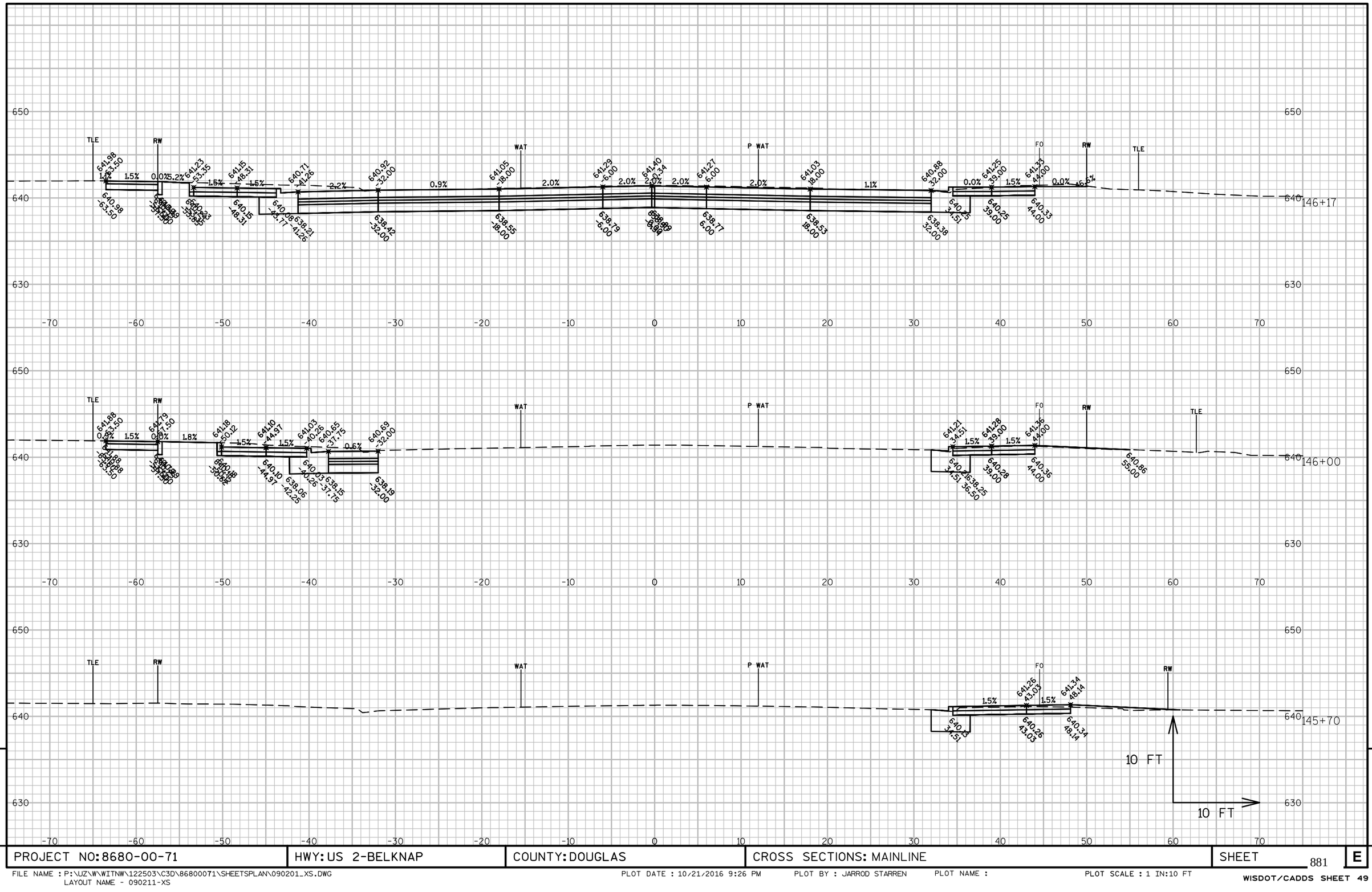


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 880	E

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LAYOUT NAME - 090210-XS

PLOT DATE : 10/21/2016 9:24 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

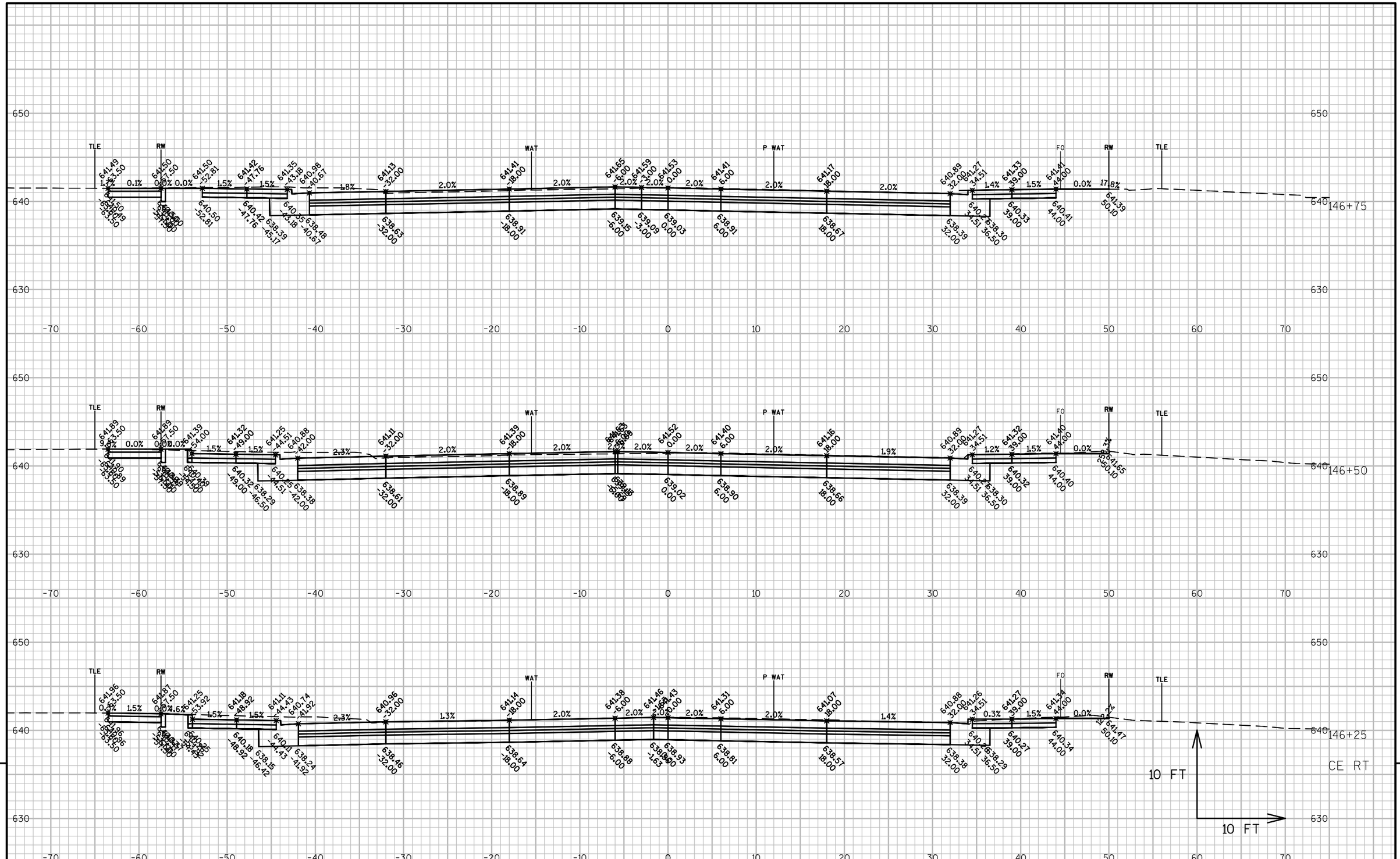
WISDOT/CADDS SHEET 49



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 881	E

9



9

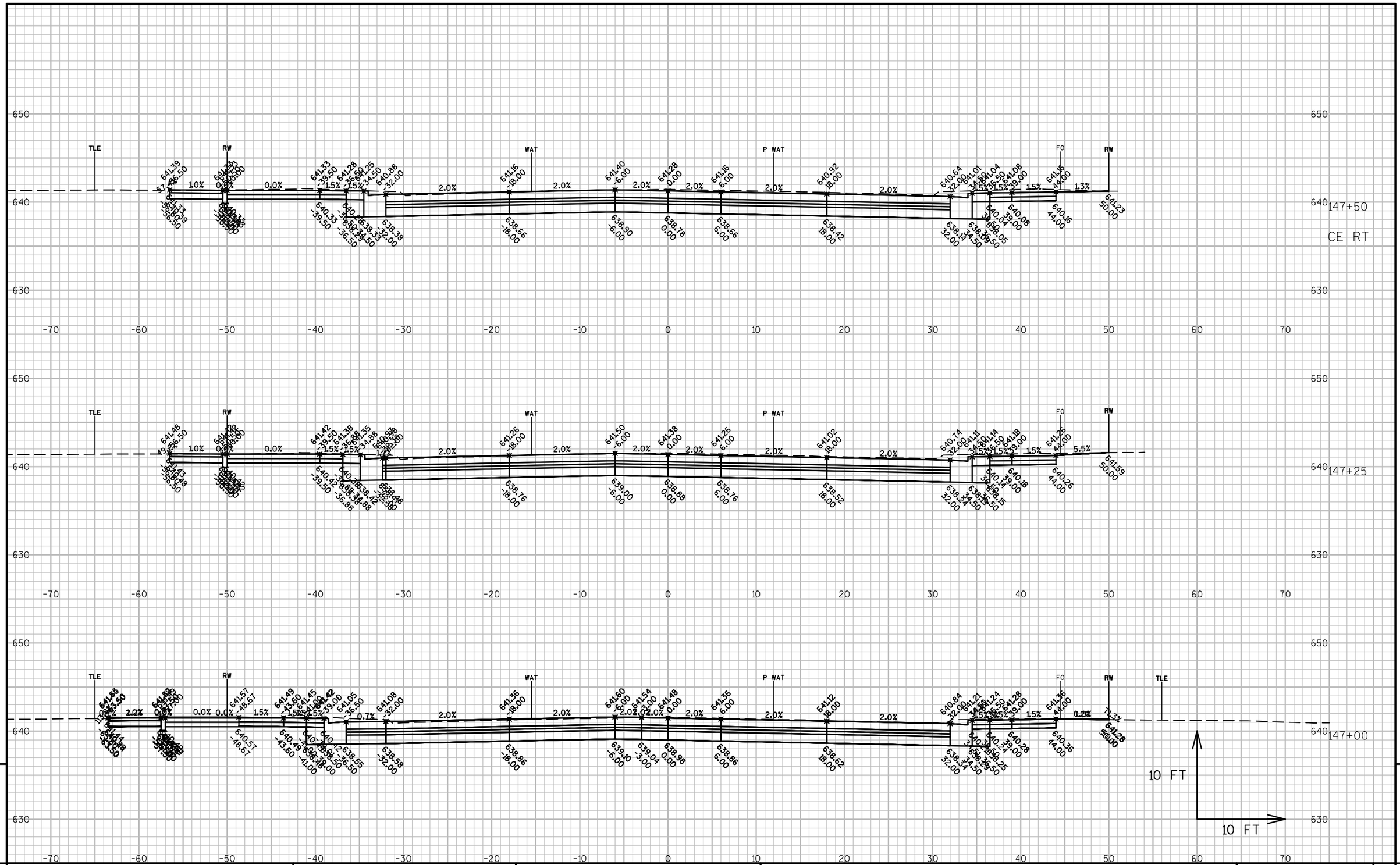
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 882	E

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LAYOUT NAME - 090212-XS

PLOT DATE : 10/21/2016 9:27 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 883	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090213-XS

PLOT DATE : 10/21/2016 9:28 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

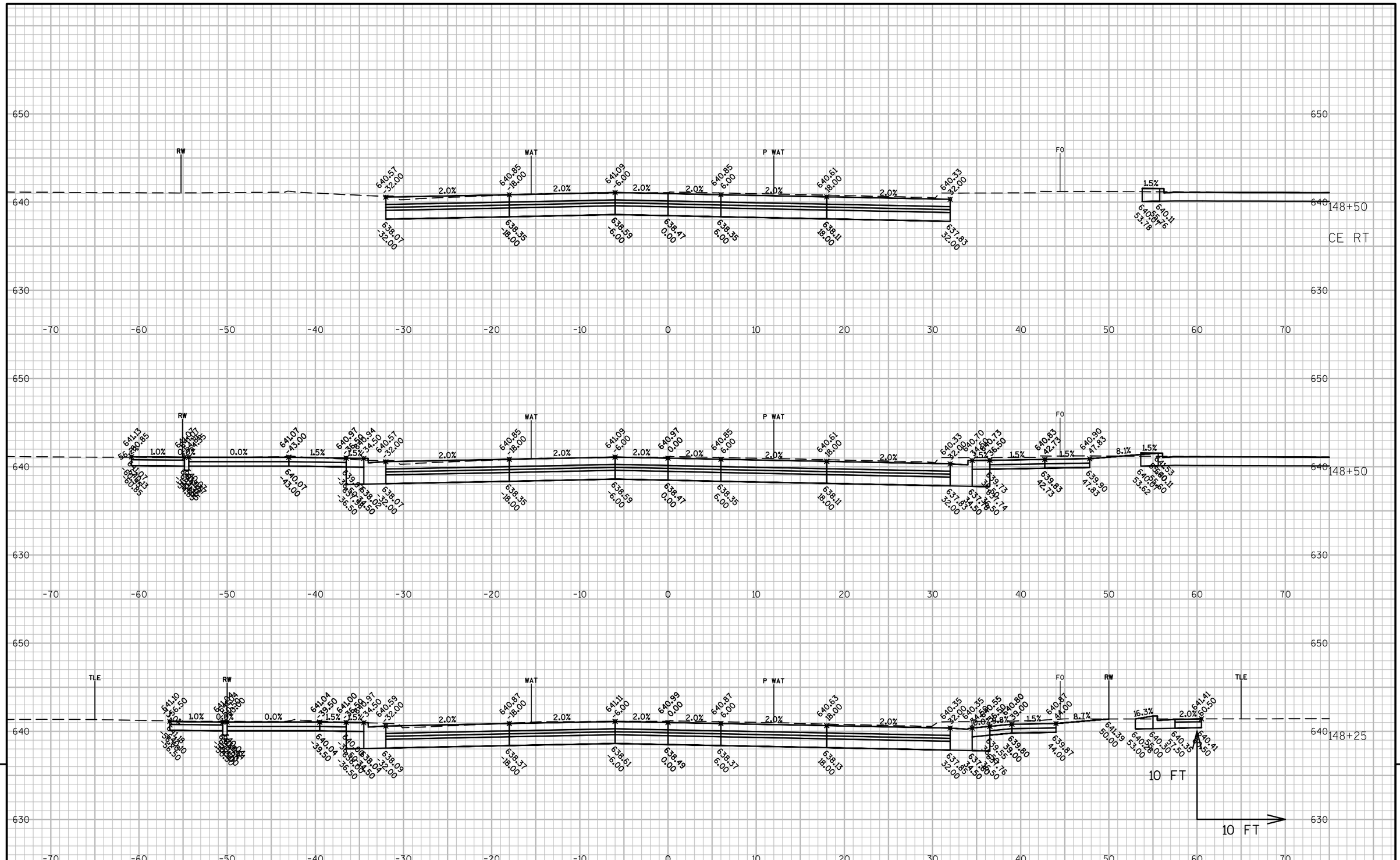
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 884	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090214-XS

PLOT DATE : 10/21/2016 9:29 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

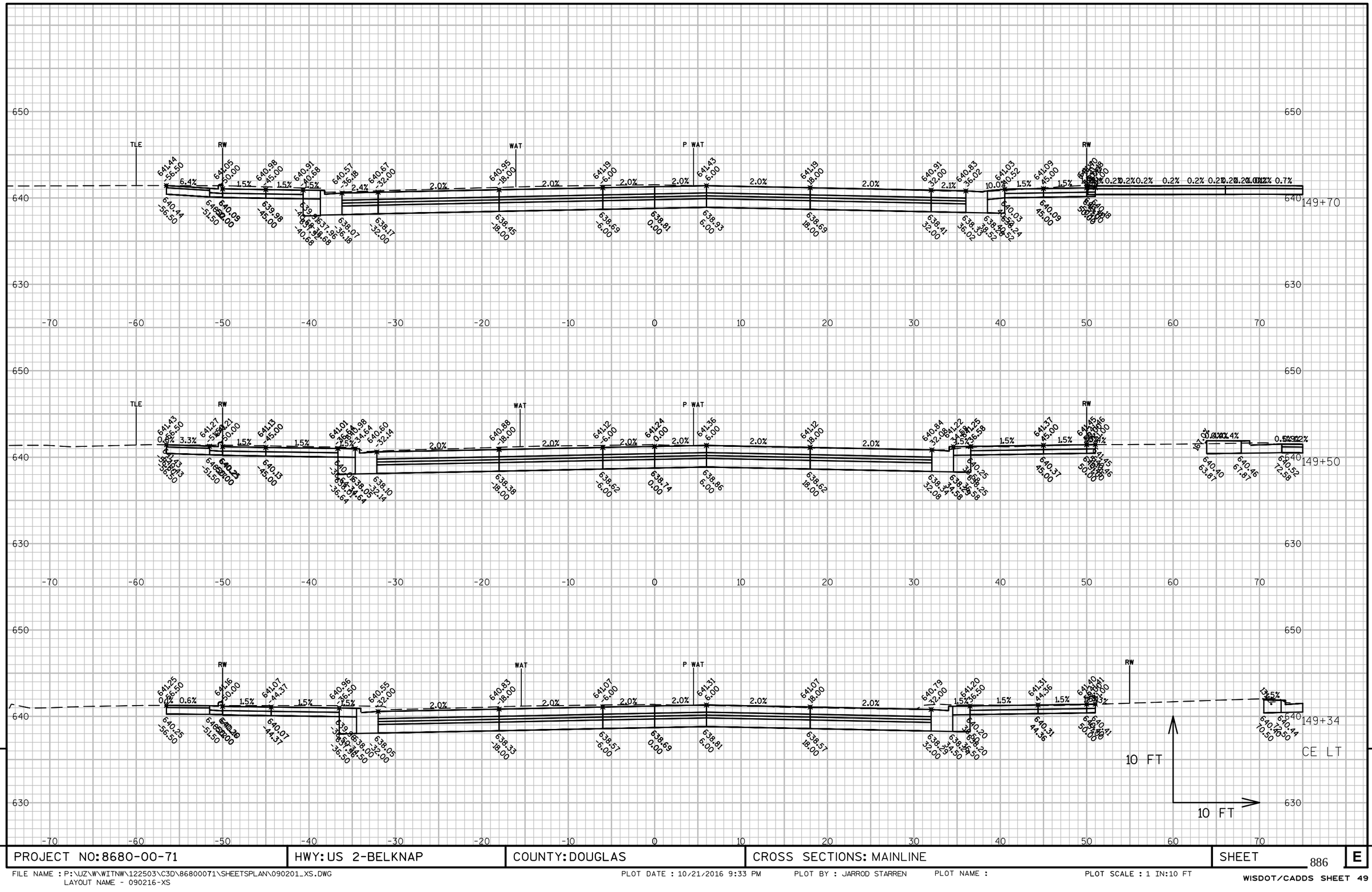


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 885	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090215-XS

PLOT DATE : 10/21/2016 9:31 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

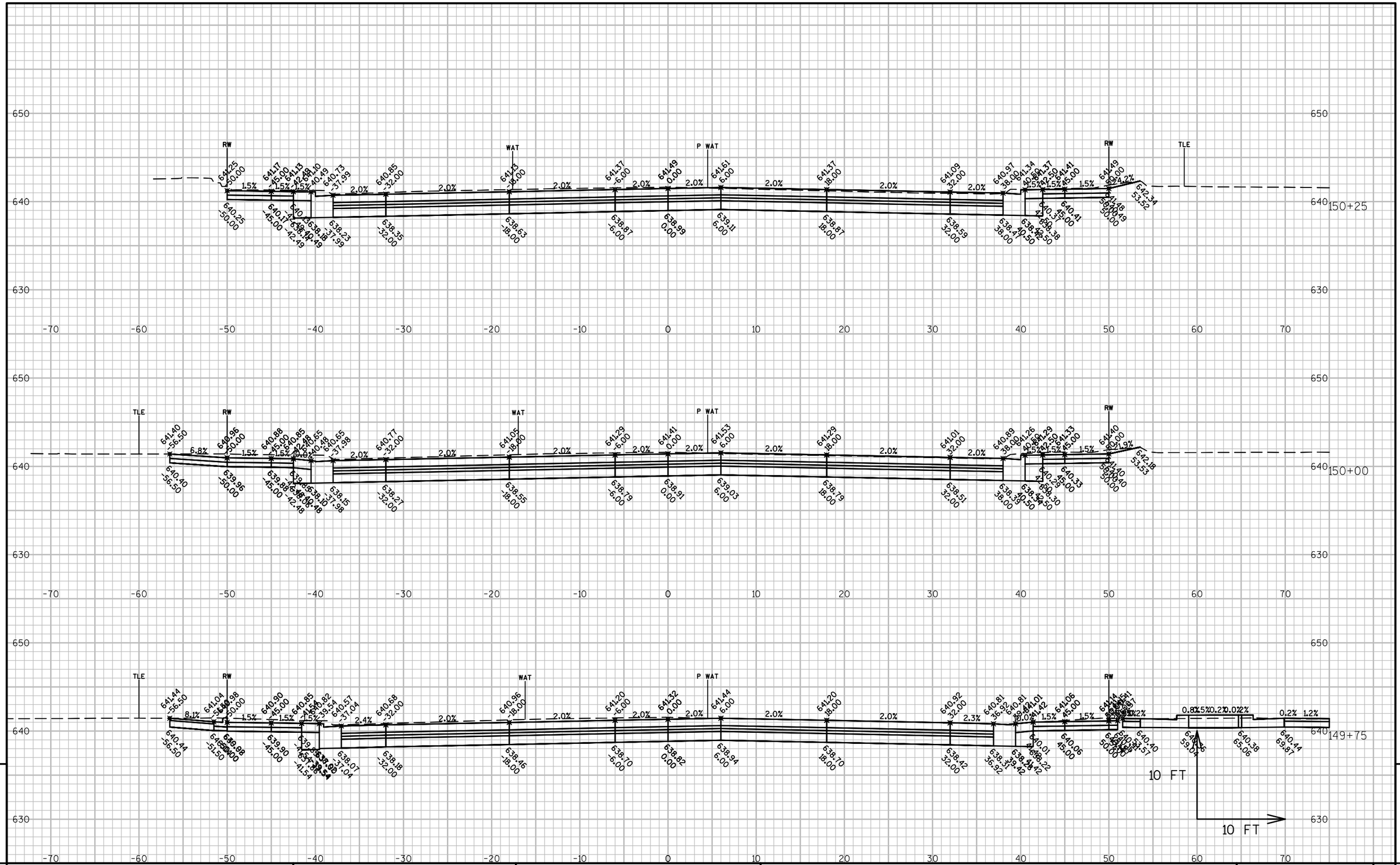


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 886	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090216-XS

PLOT DATE : 10/21/2016 9:33 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 887	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090217-XS

PLOT DATE : 10/21/2016 9:39 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 888	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090218-XS

PLOT DATE : 10/21/2016 9:40 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

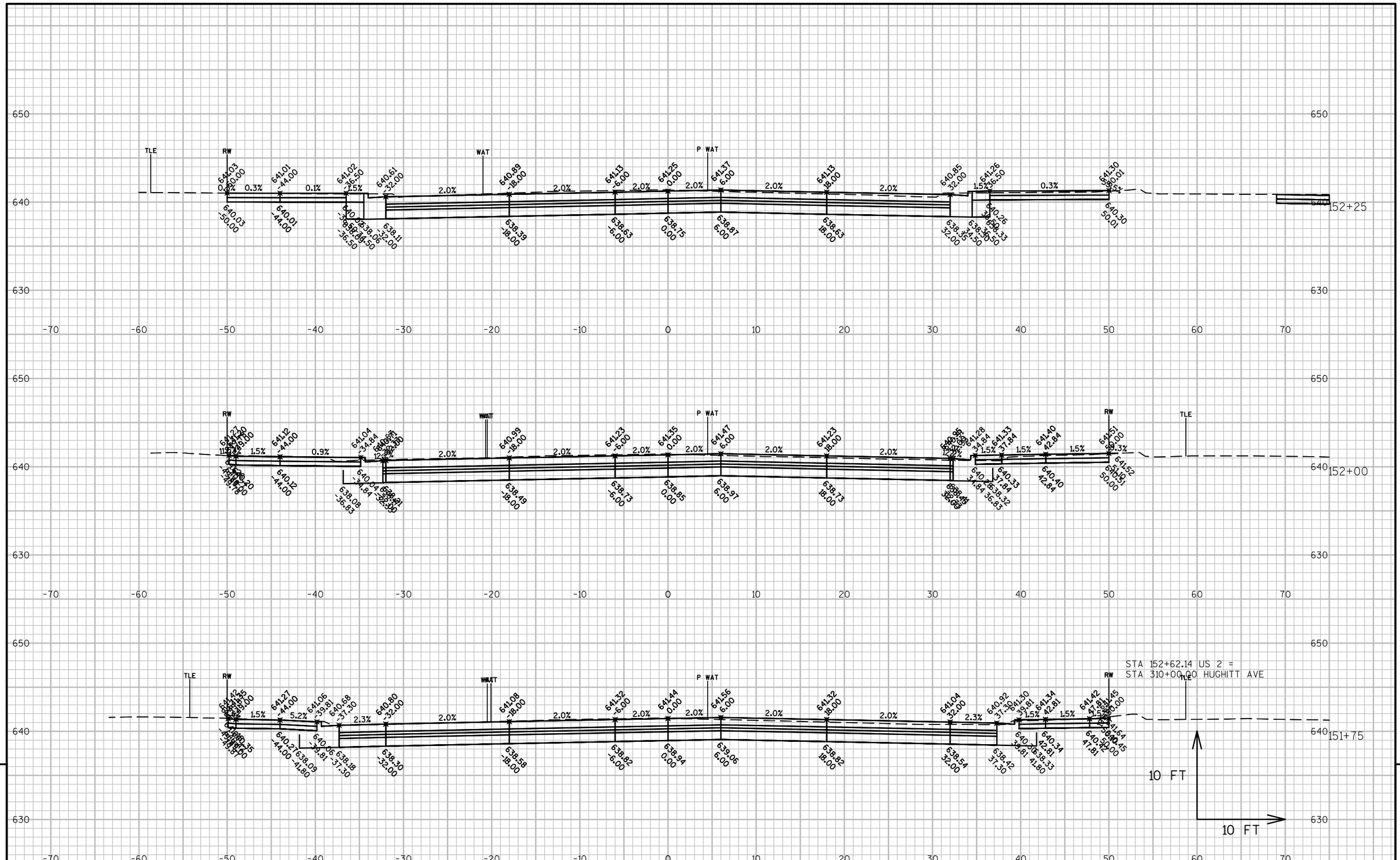
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 889	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090219-XS

PLOT DATE : 10/21/2016 9:42 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 890	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090220-XS

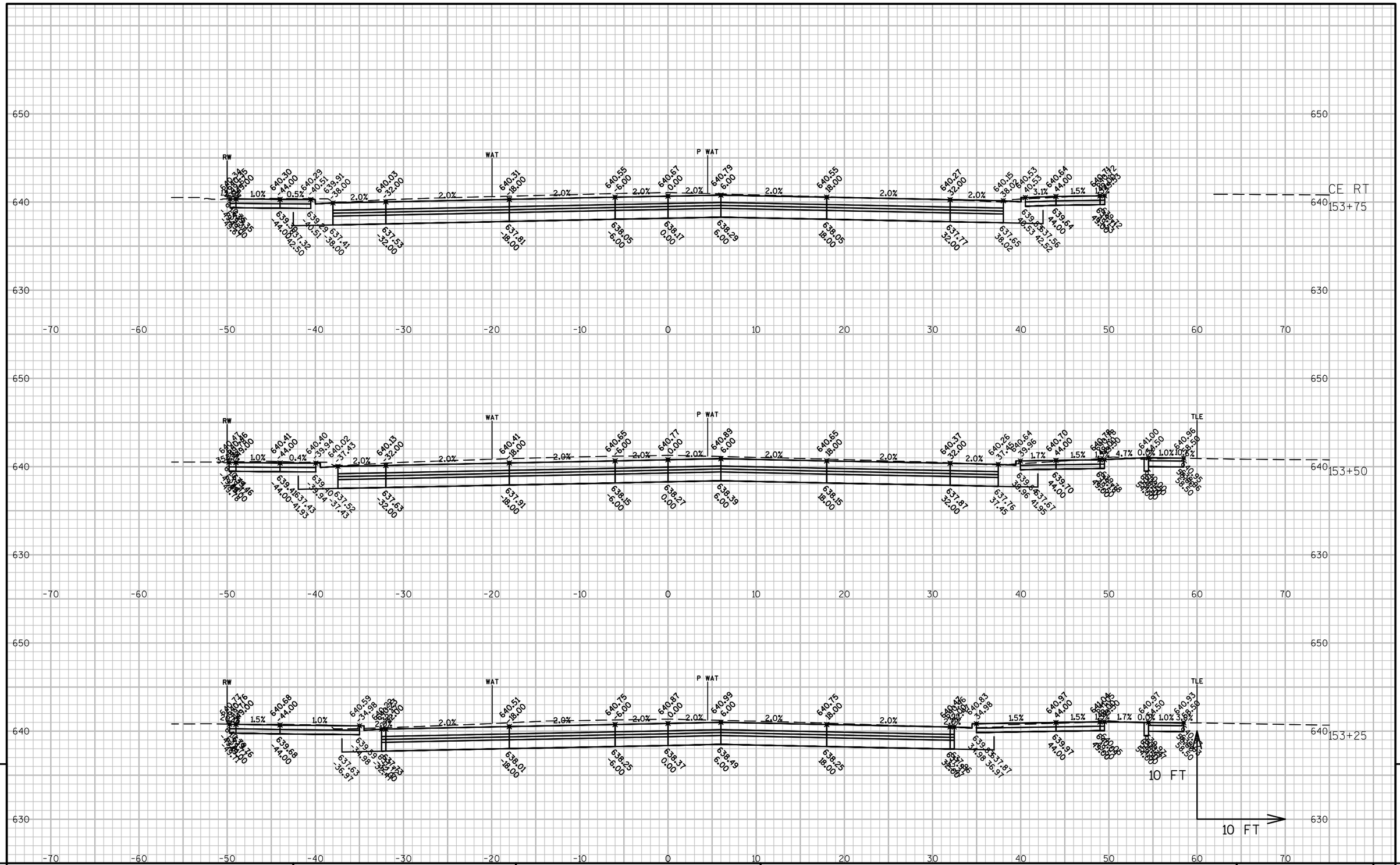
PLOT DATE : 10/21/2016 9:43 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 891	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090221-XS

PLOT DATE : 10/21/2016 9:45 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 892	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090222-XS

PLOT DATE : 10/21/2016 9:50 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

9

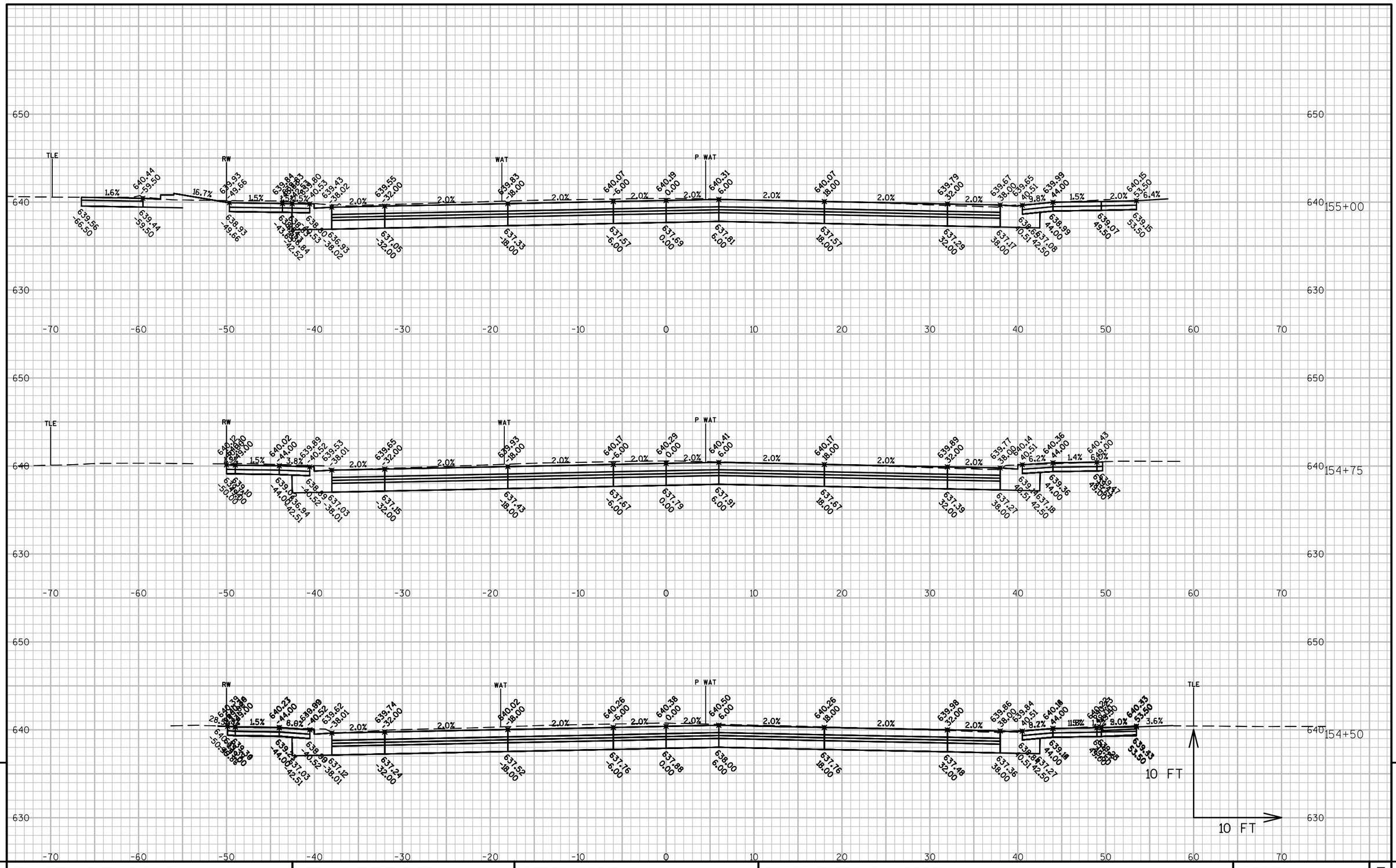
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 893	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090223-XS

PLOT DATE : 10/21/2016 9:52 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

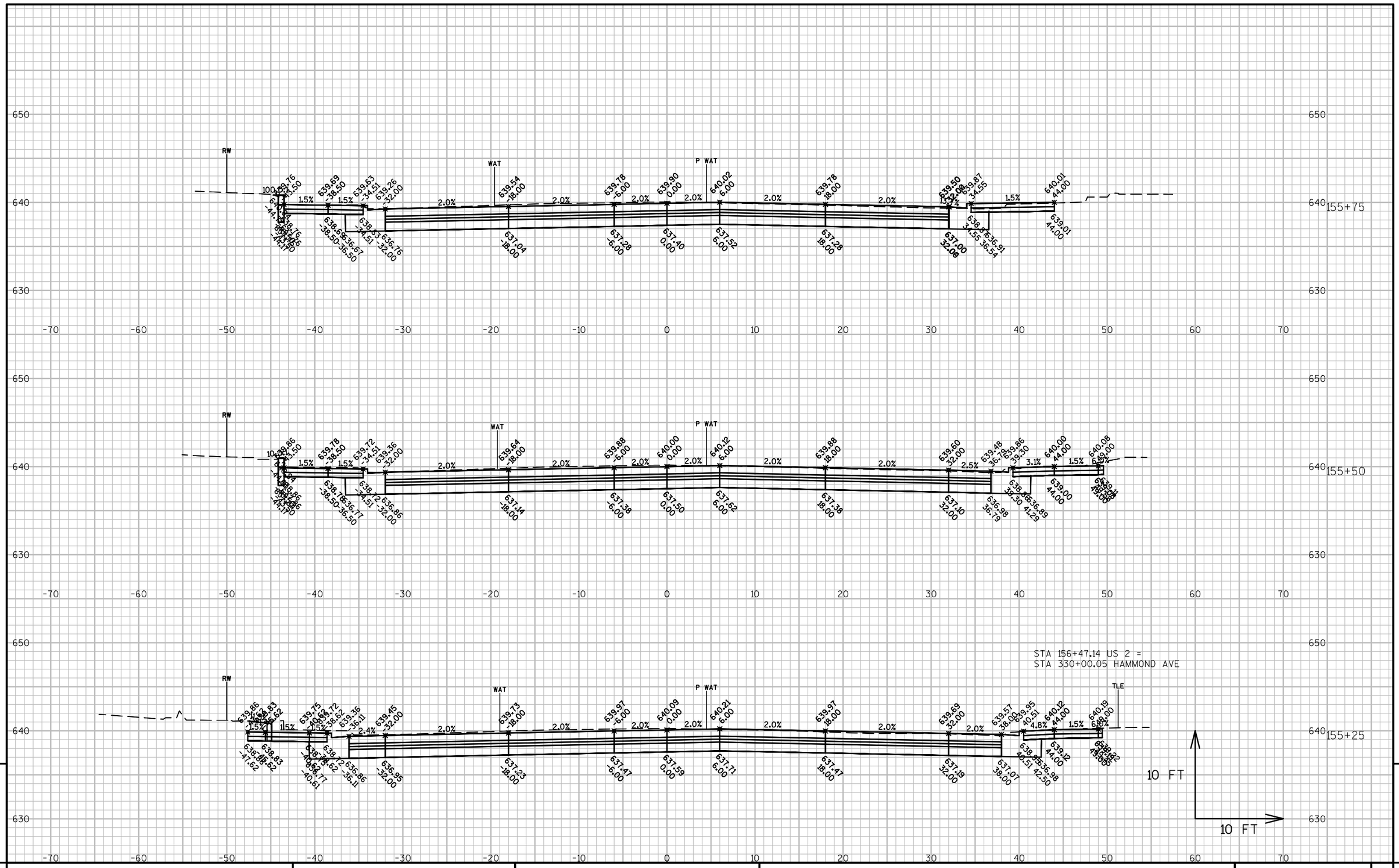


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 894	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090224-XS

PLOT DATE : 10/21/2016 9:54 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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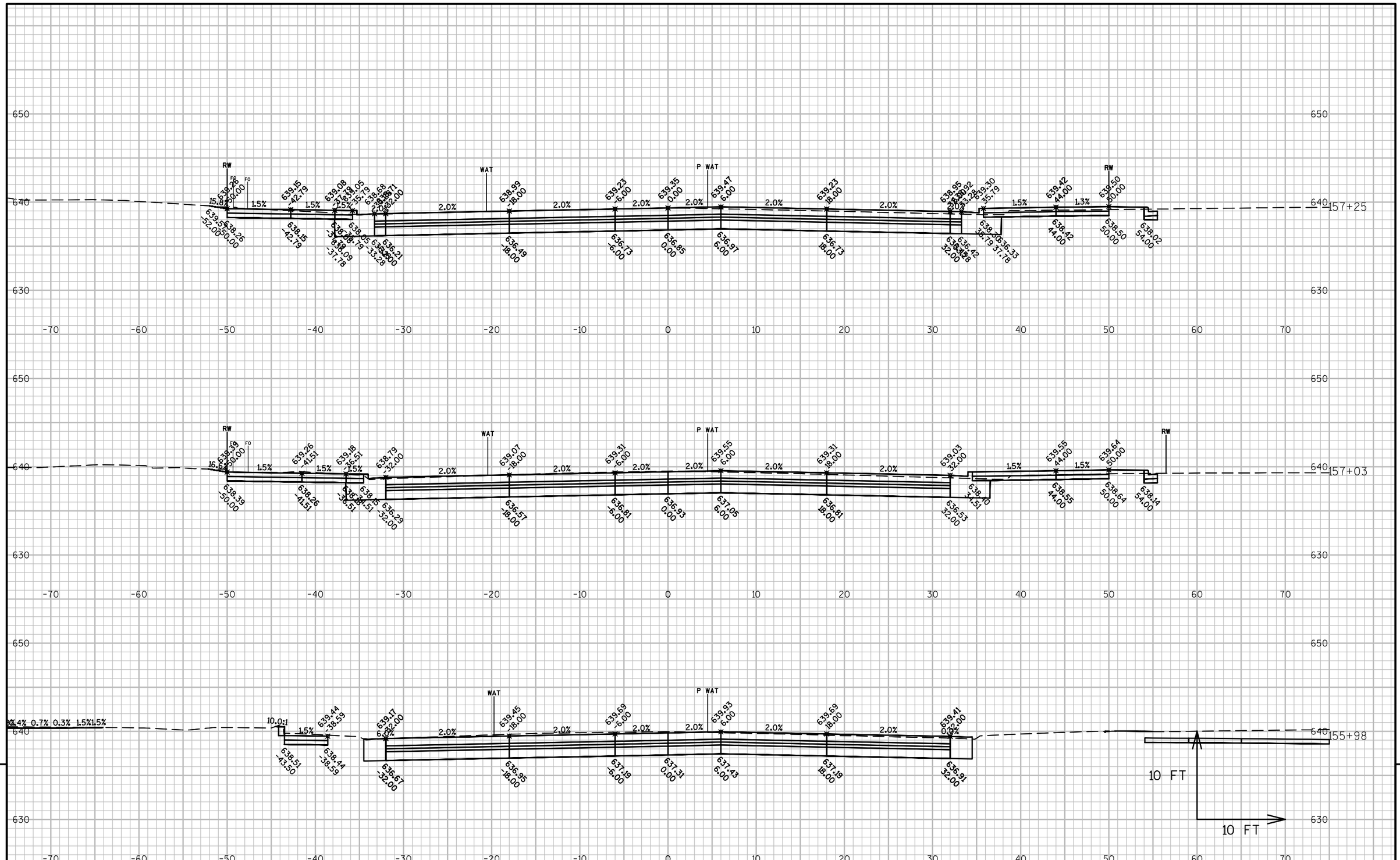
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 895	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090225-XS

PLOT DATE : 10/21/2016 9:55 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



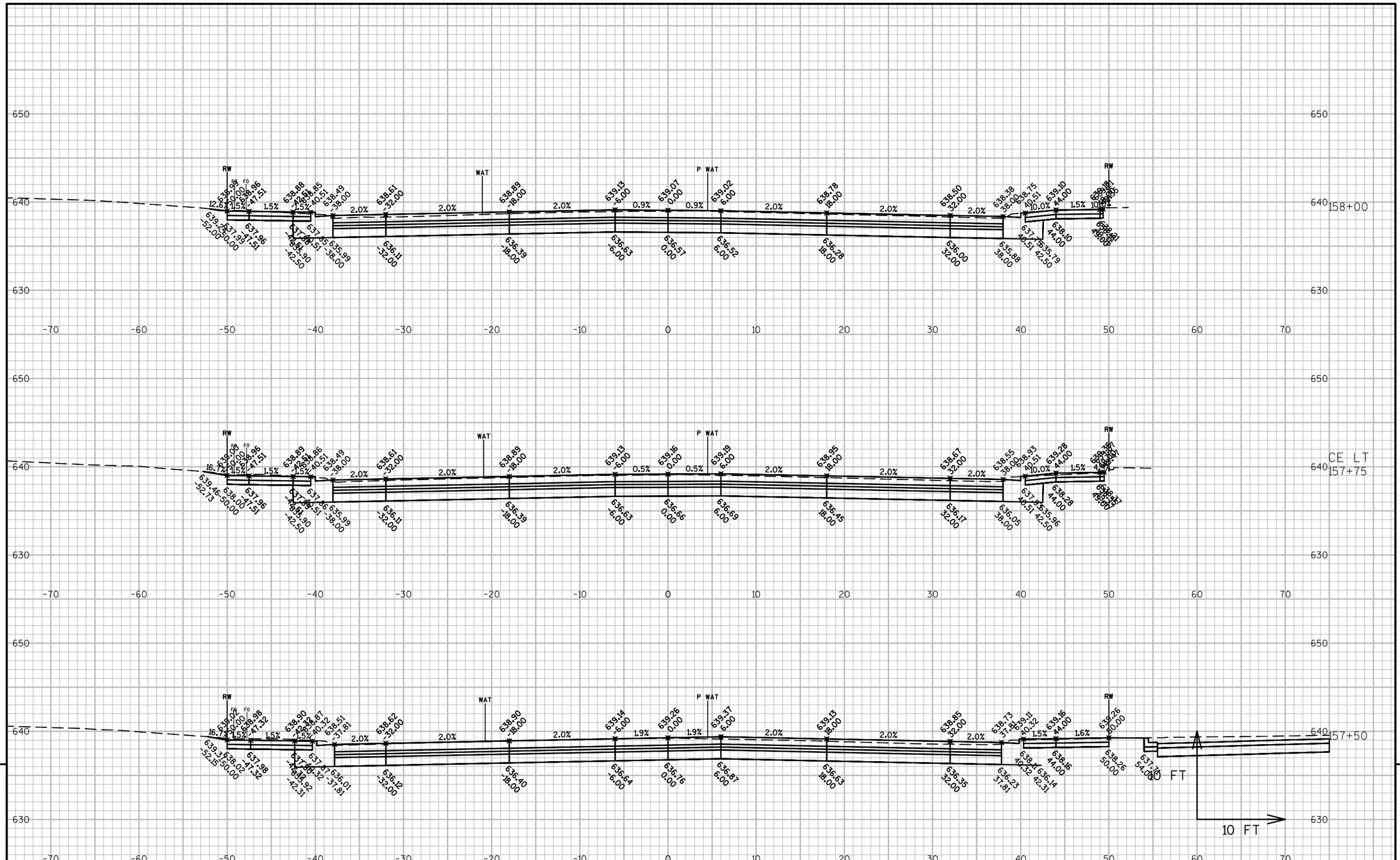
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 896	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090226-XS

PLOT DATE : 10/21/2016 9:56 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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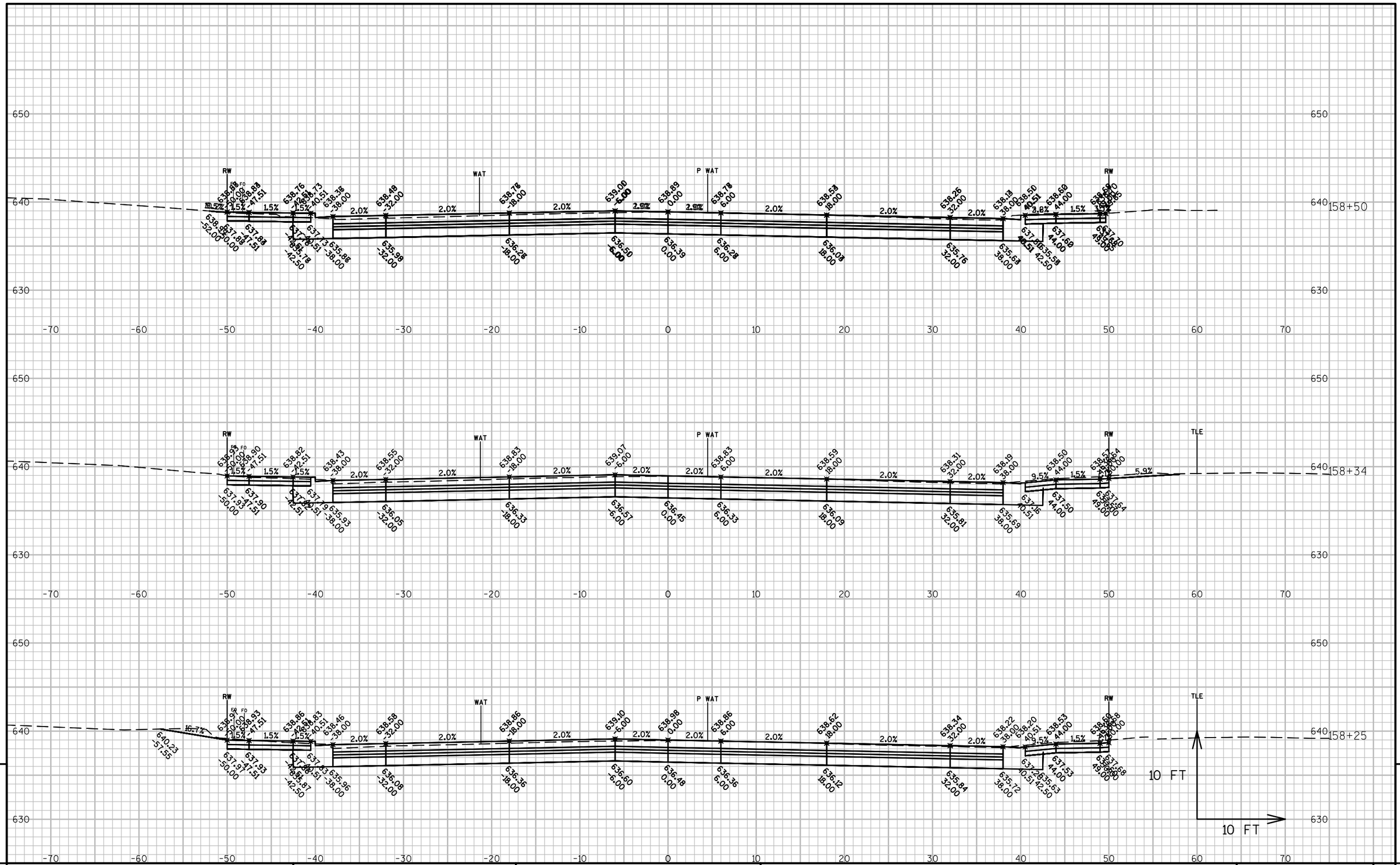
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 897	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090227-XS

PLOT DATE : 10/21/2016 9:59 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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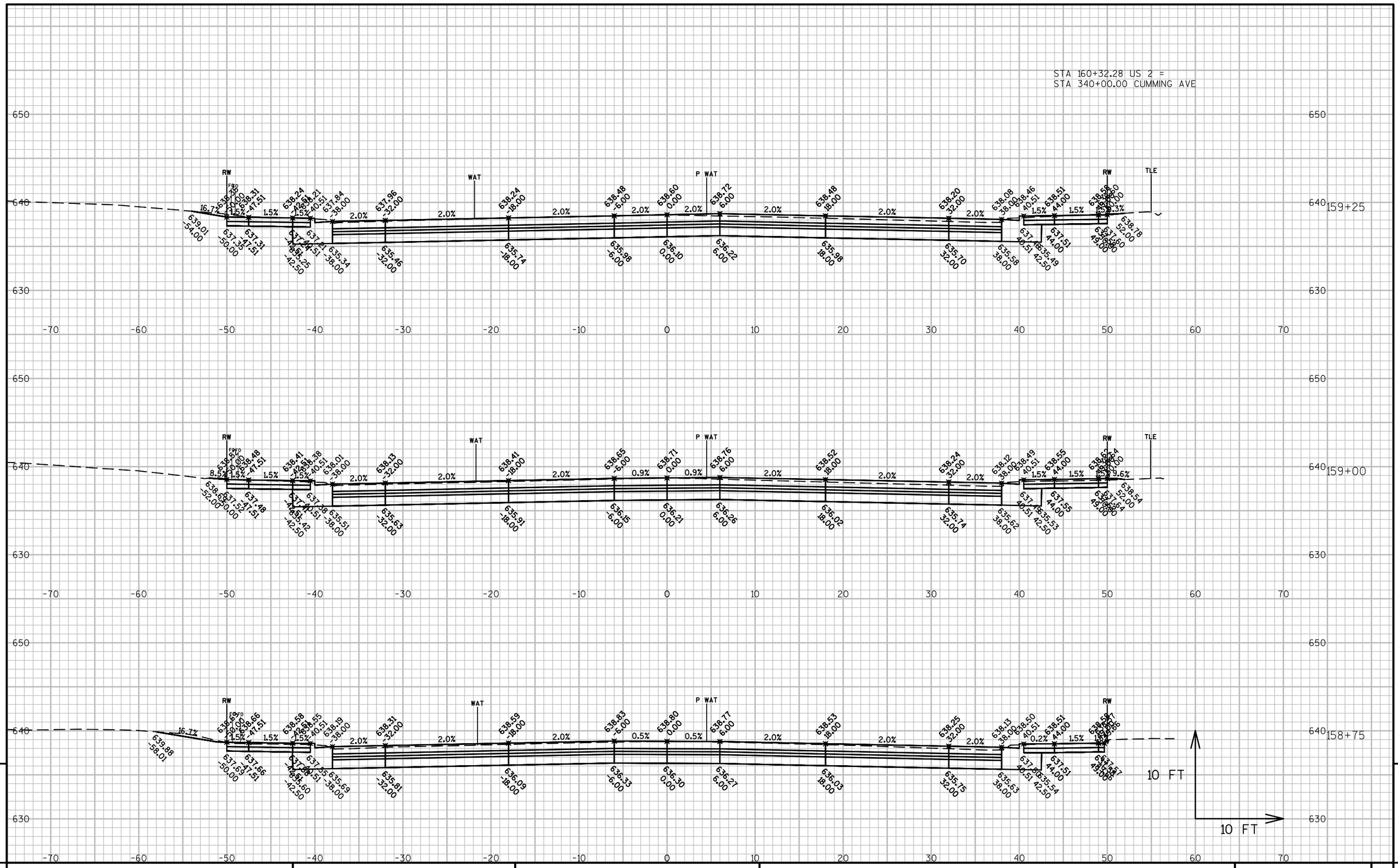
PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 898	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090228-XS

PLOT DATE : 10/21/2016 10:00 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STA 160+32.28 US 2 =
STA 340+00.00 CUMMING AVE



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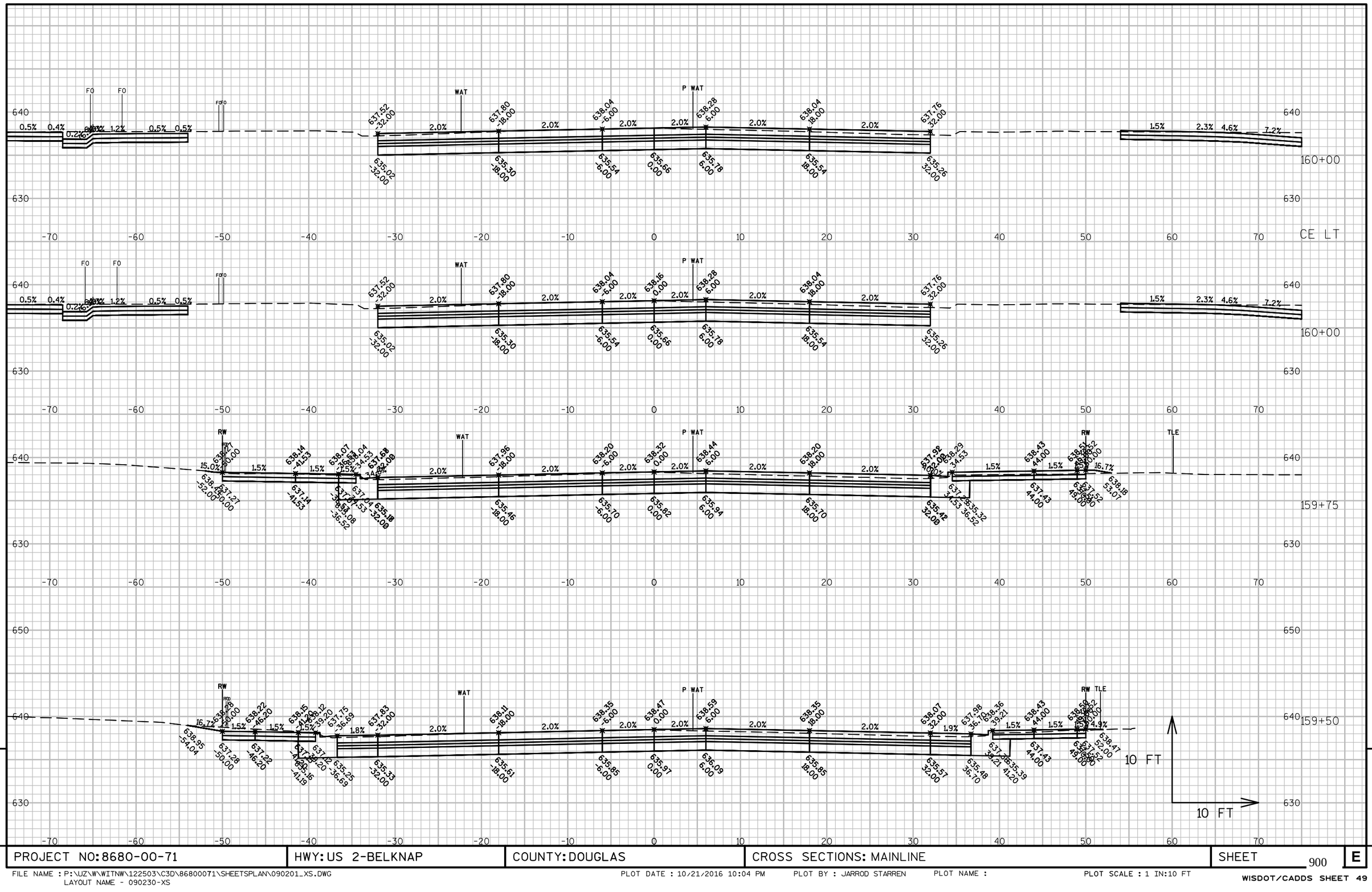
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 899	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090229-XS

PLOT DATE : 10/21/2016 10:02 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

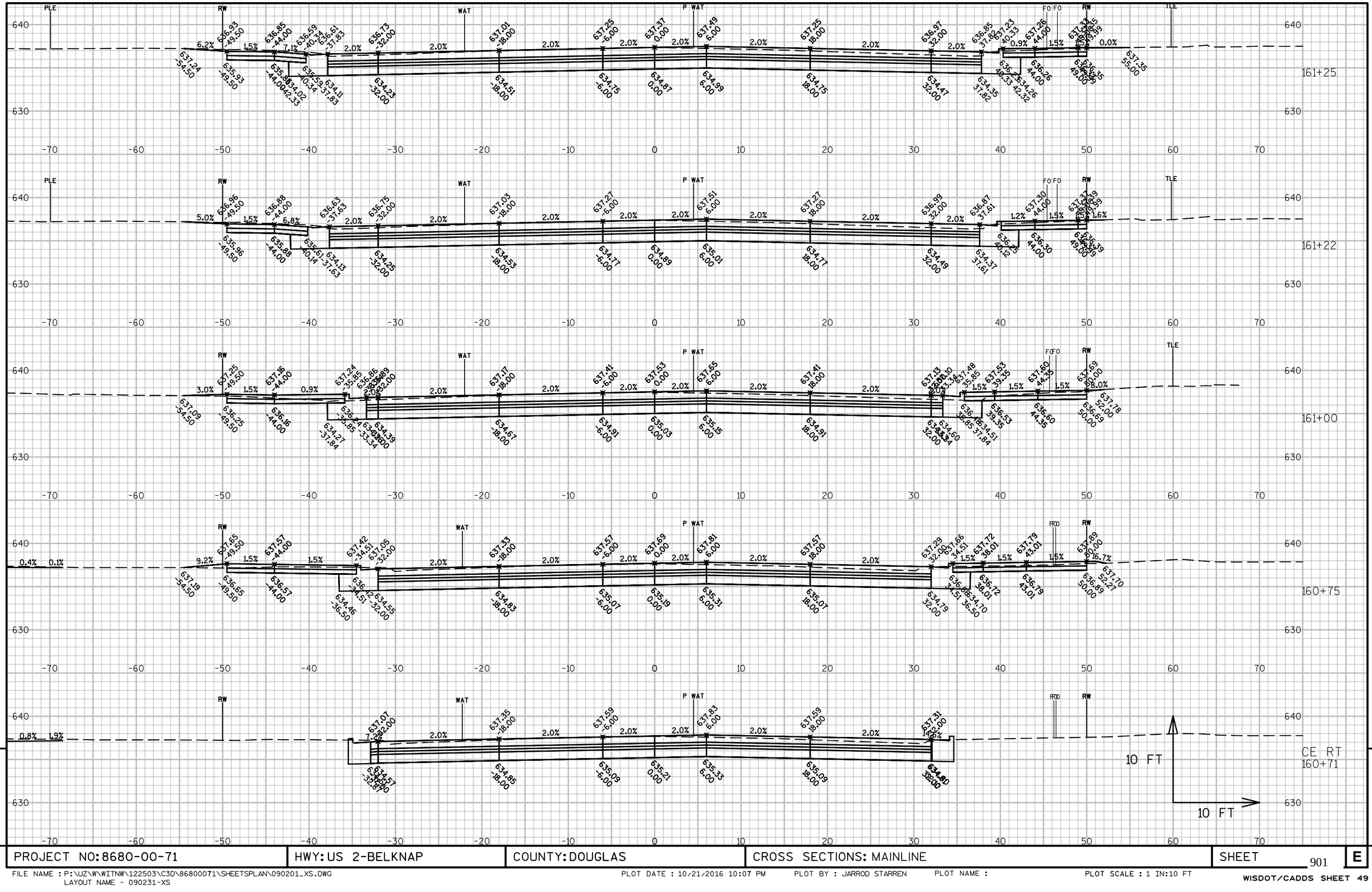
WISDOT/CADDS SHEET 49



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 900	E

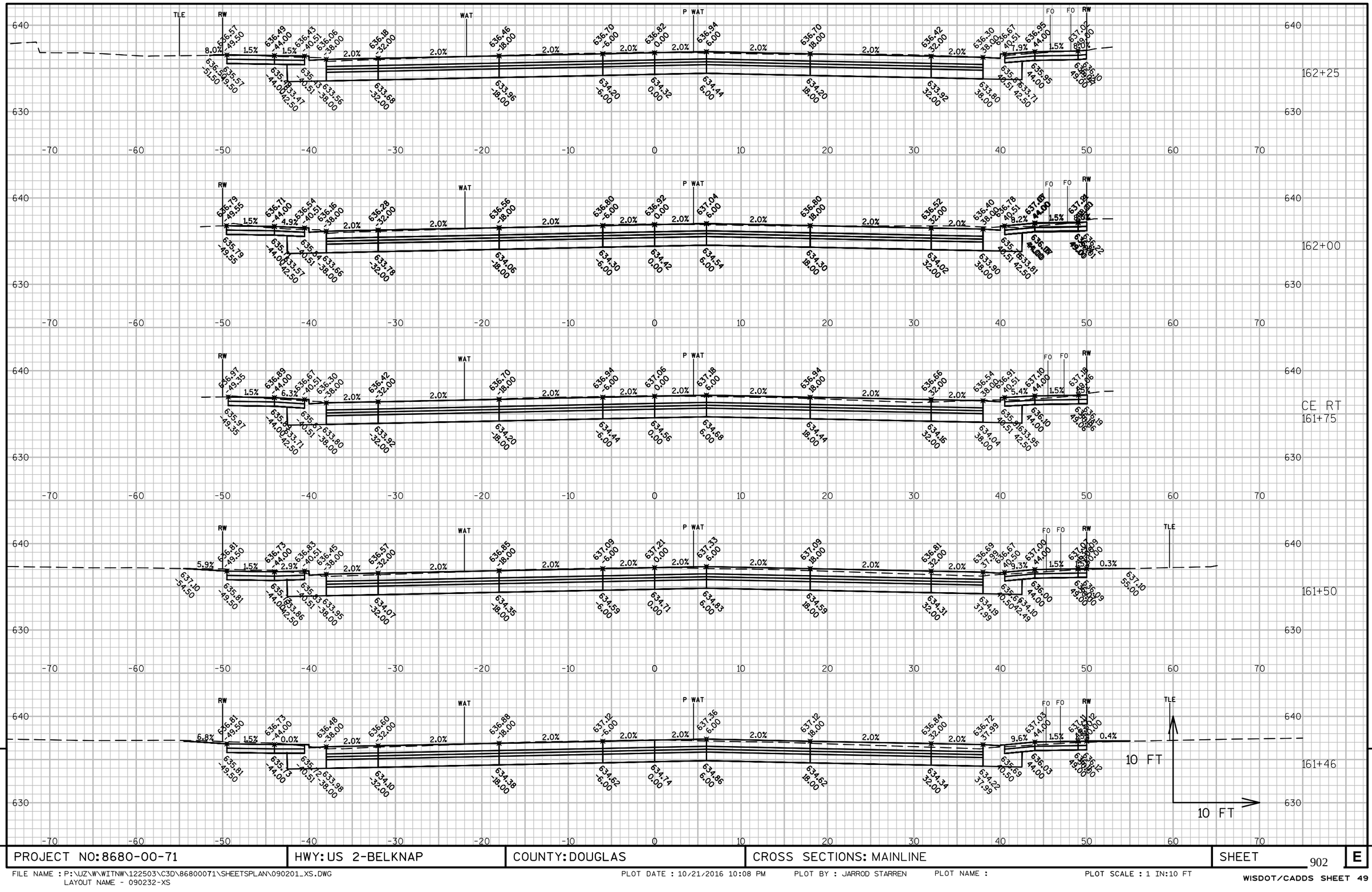


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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 901	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090231-XS
PLOT DATE : 10/21/2016 10:07 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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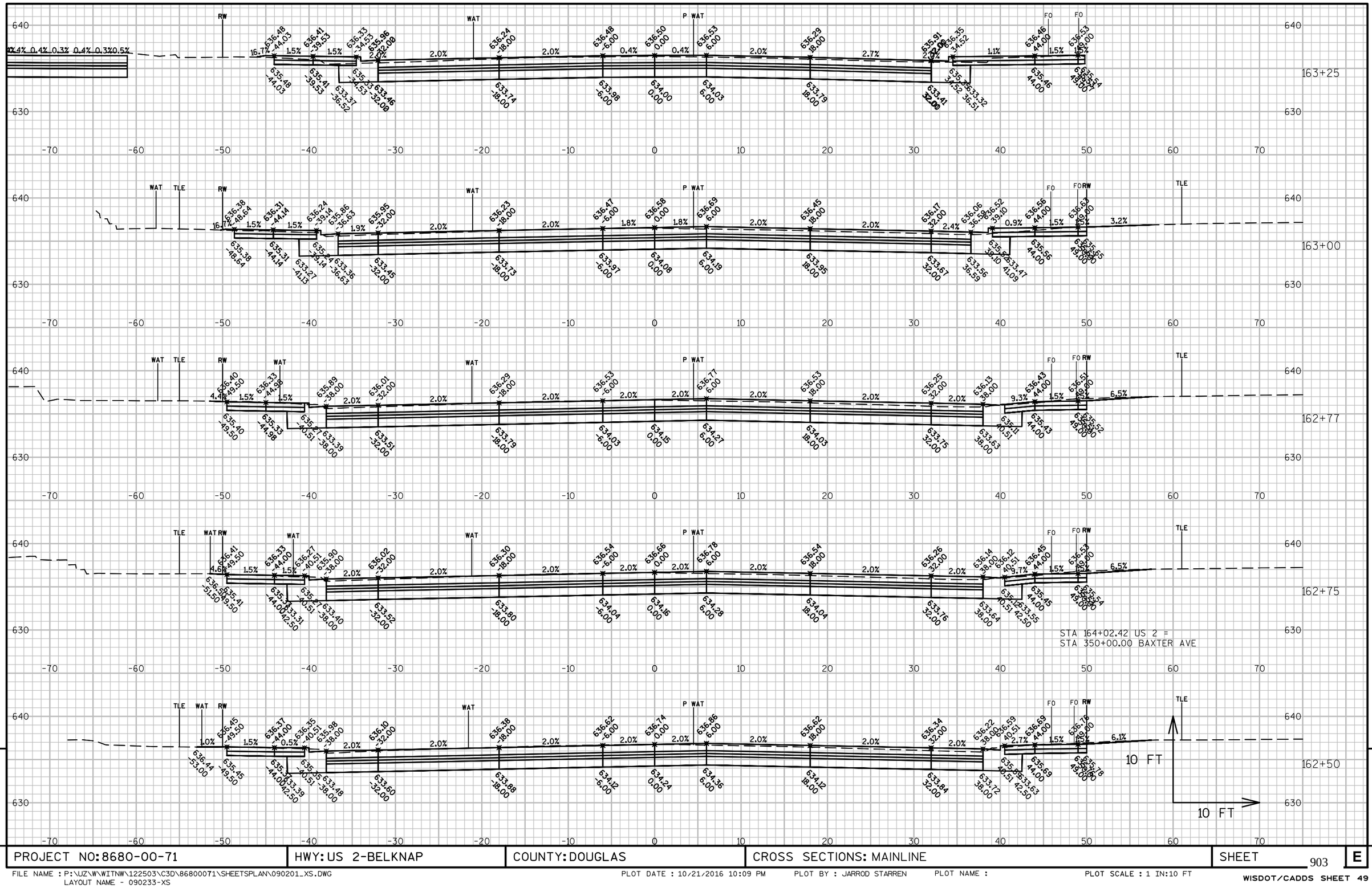
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 902	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090232-XS

PLOT DATE : 10/21/2016 10:08 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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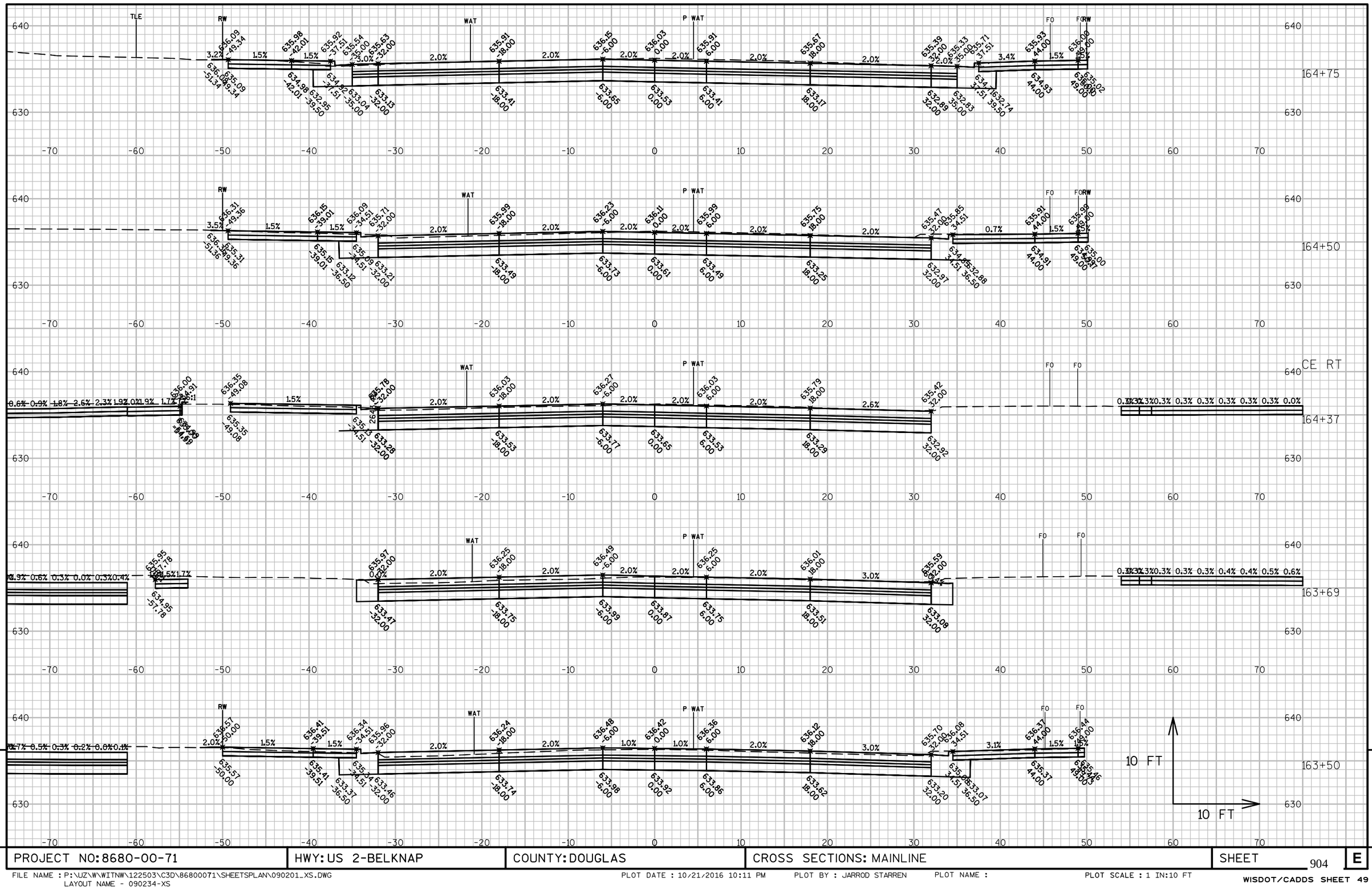
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 903	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090233-XS

PLOT DATE : 10/21/2016 10:09 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

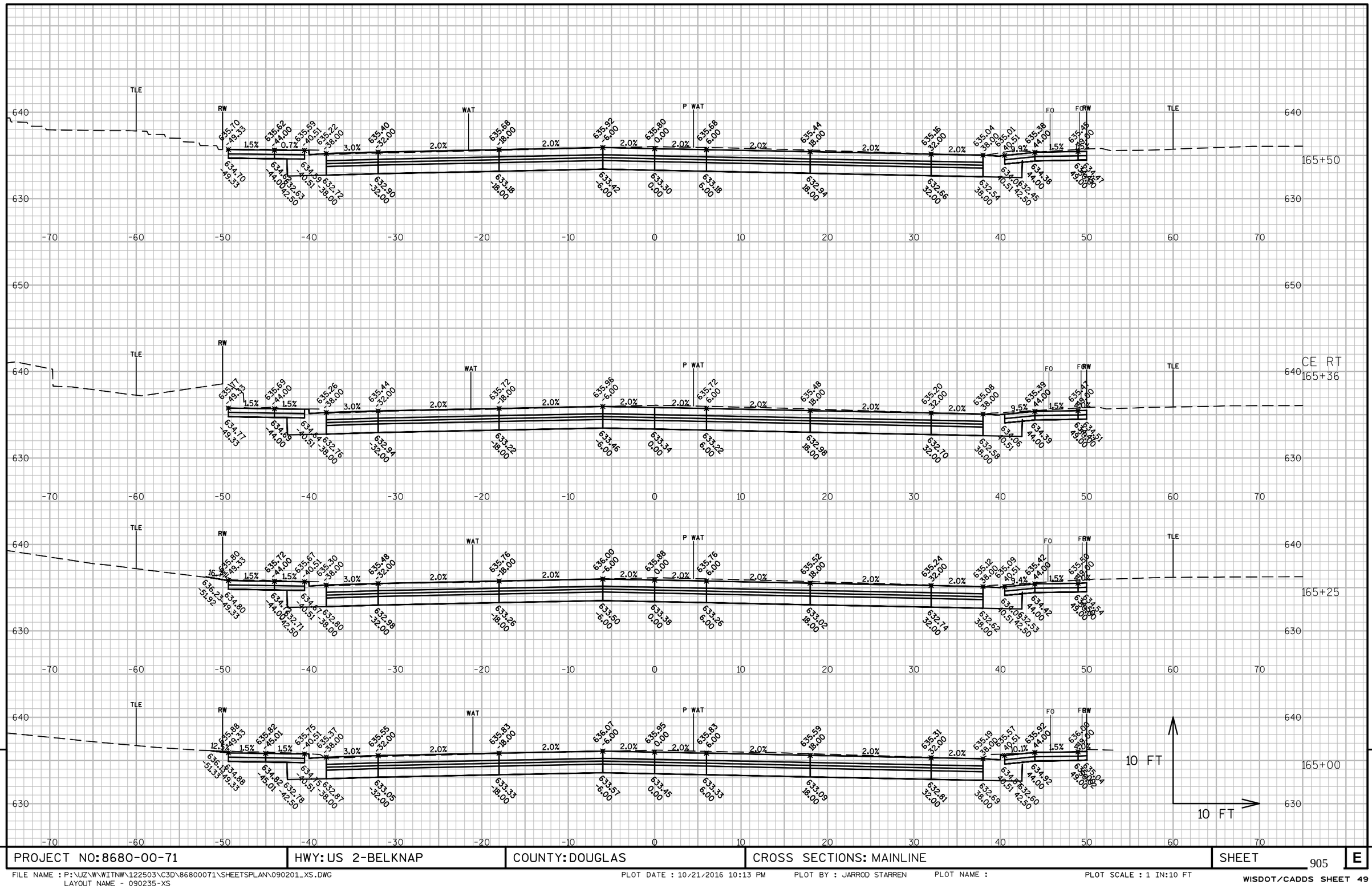
WISDOT/CADDS SHEET 49



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 904	E



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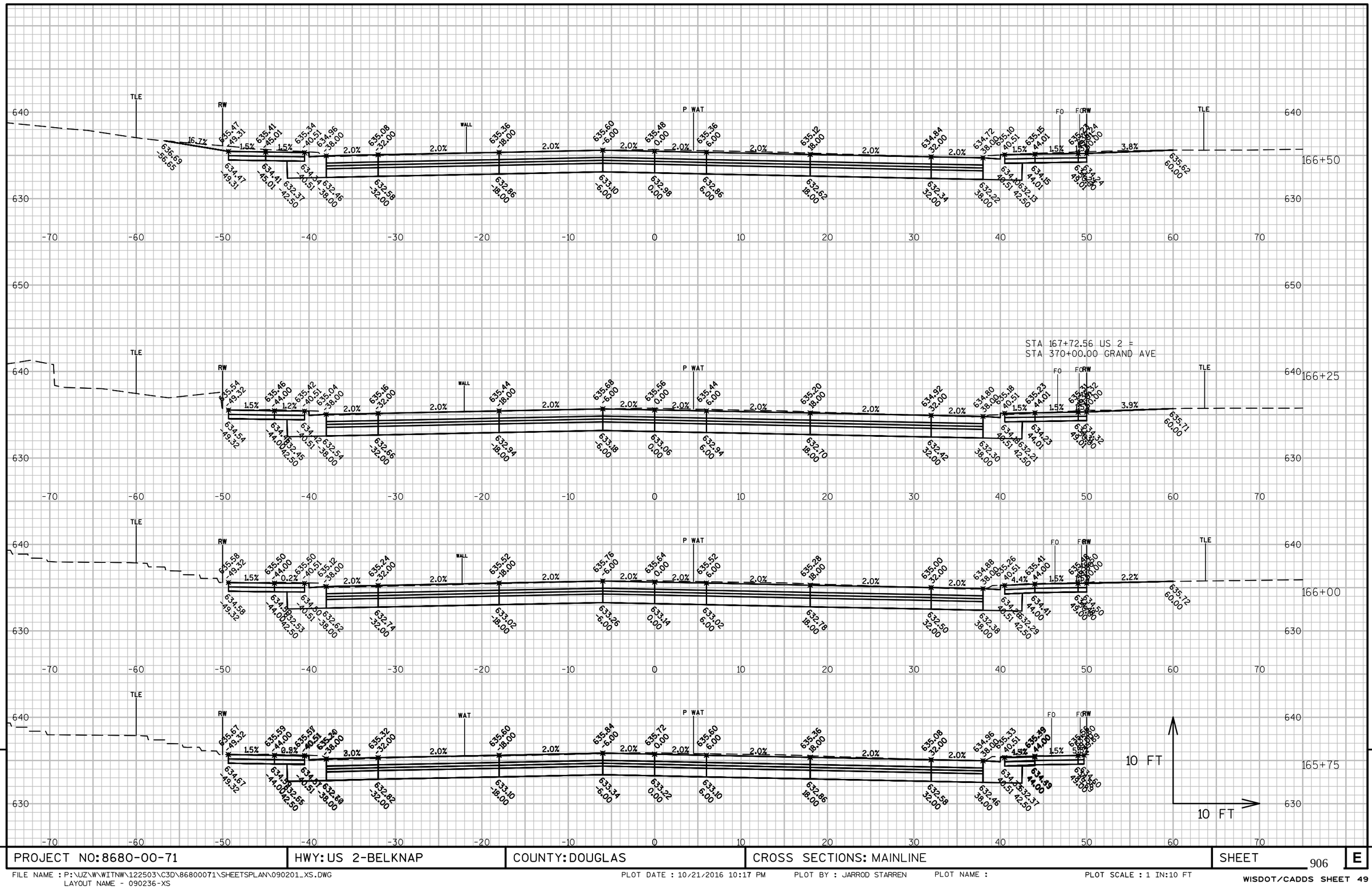
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 905	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090235-XS

PLOT DATE : 10/21/2016 10:13 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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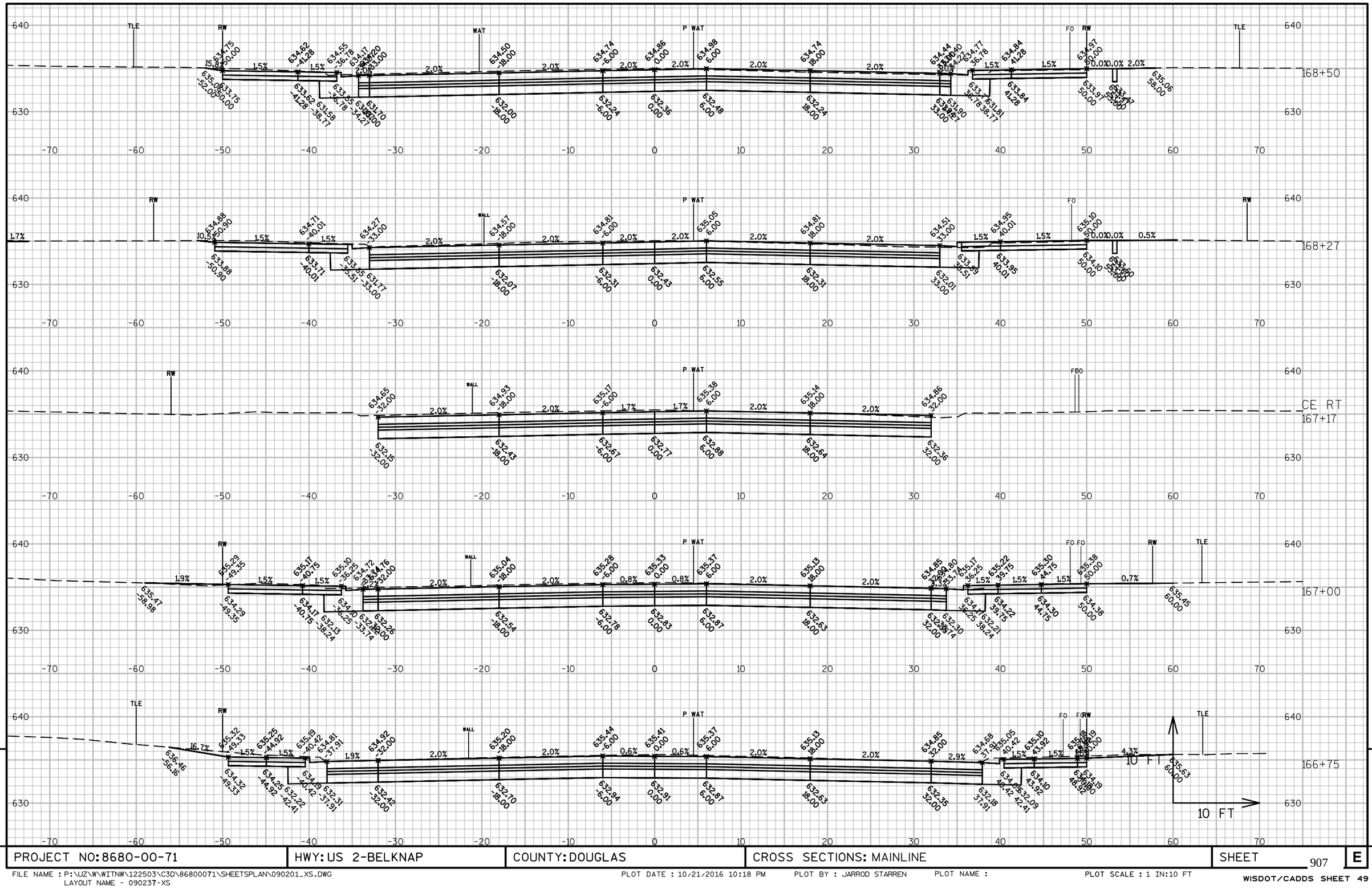
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 906	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090236-XS

PLOT DATE : 10/21/2016 10:17 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

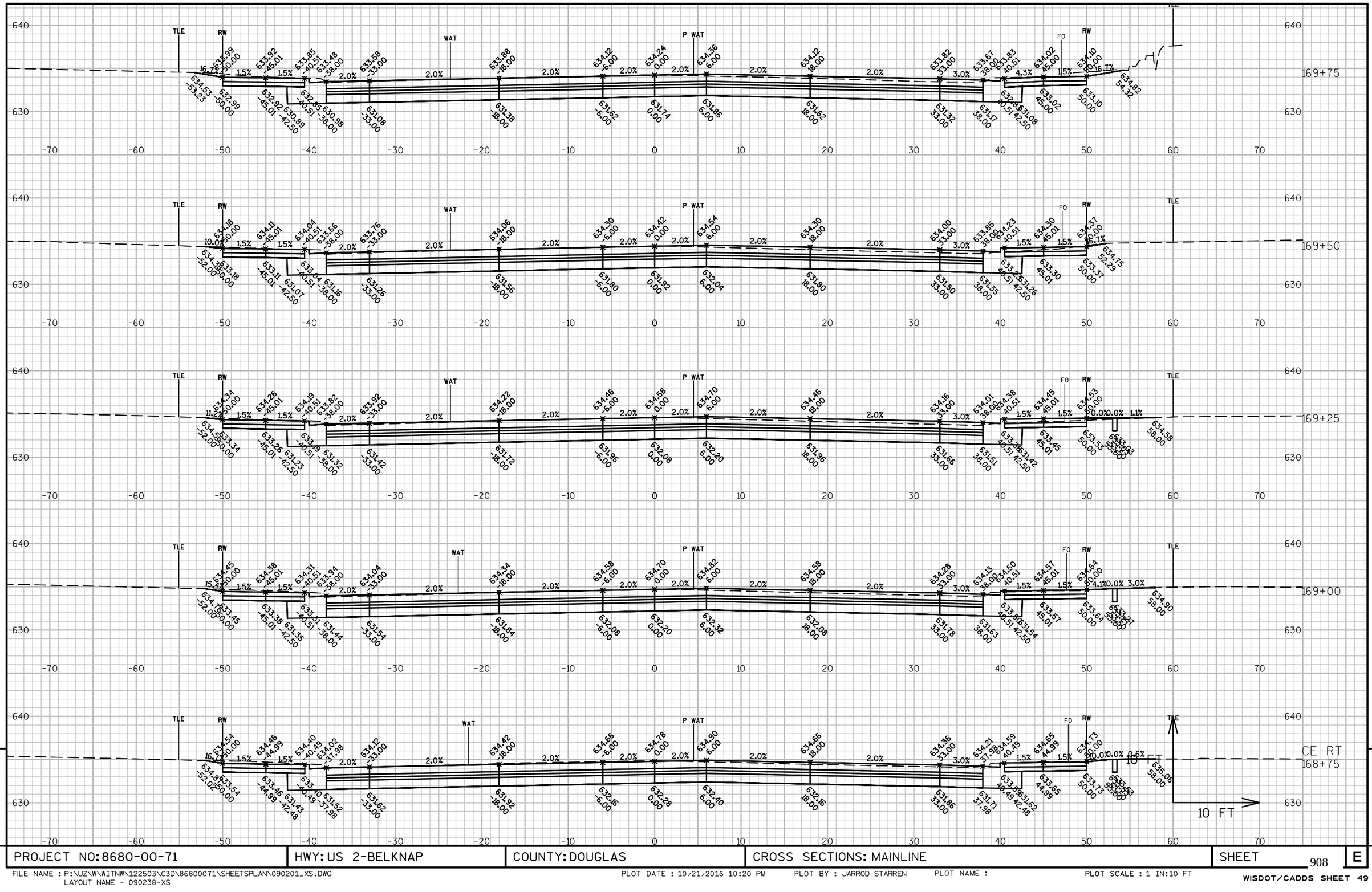


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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 907	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090237-XS
PLOT DATE : 10/21/2016 10:18 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

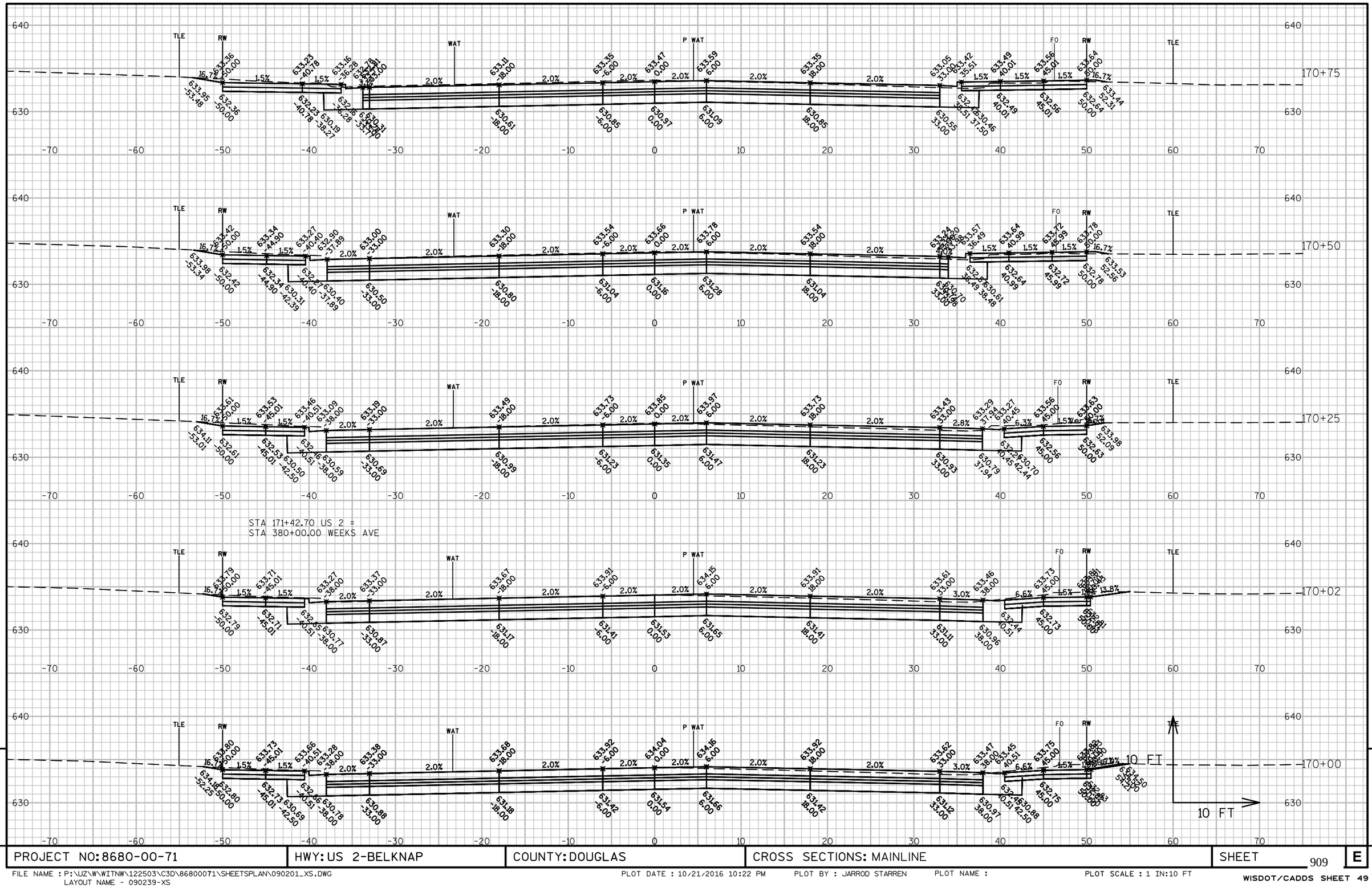
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 908	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090238-XS

PLOT DATE : 10/21/2016 10:20 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

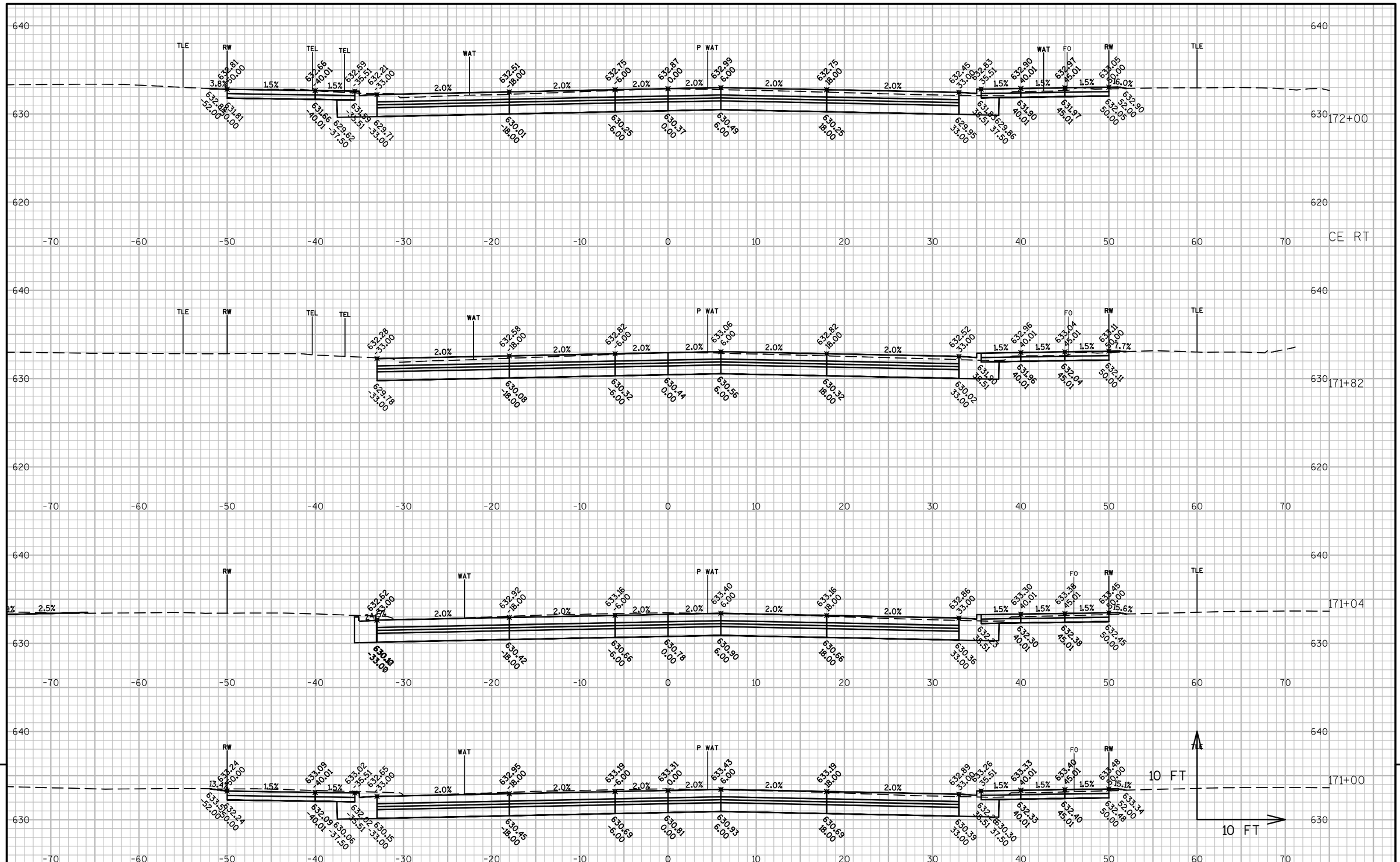
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 909	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090239-XS

PLOT DATE : 10/21/2016 10:22 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

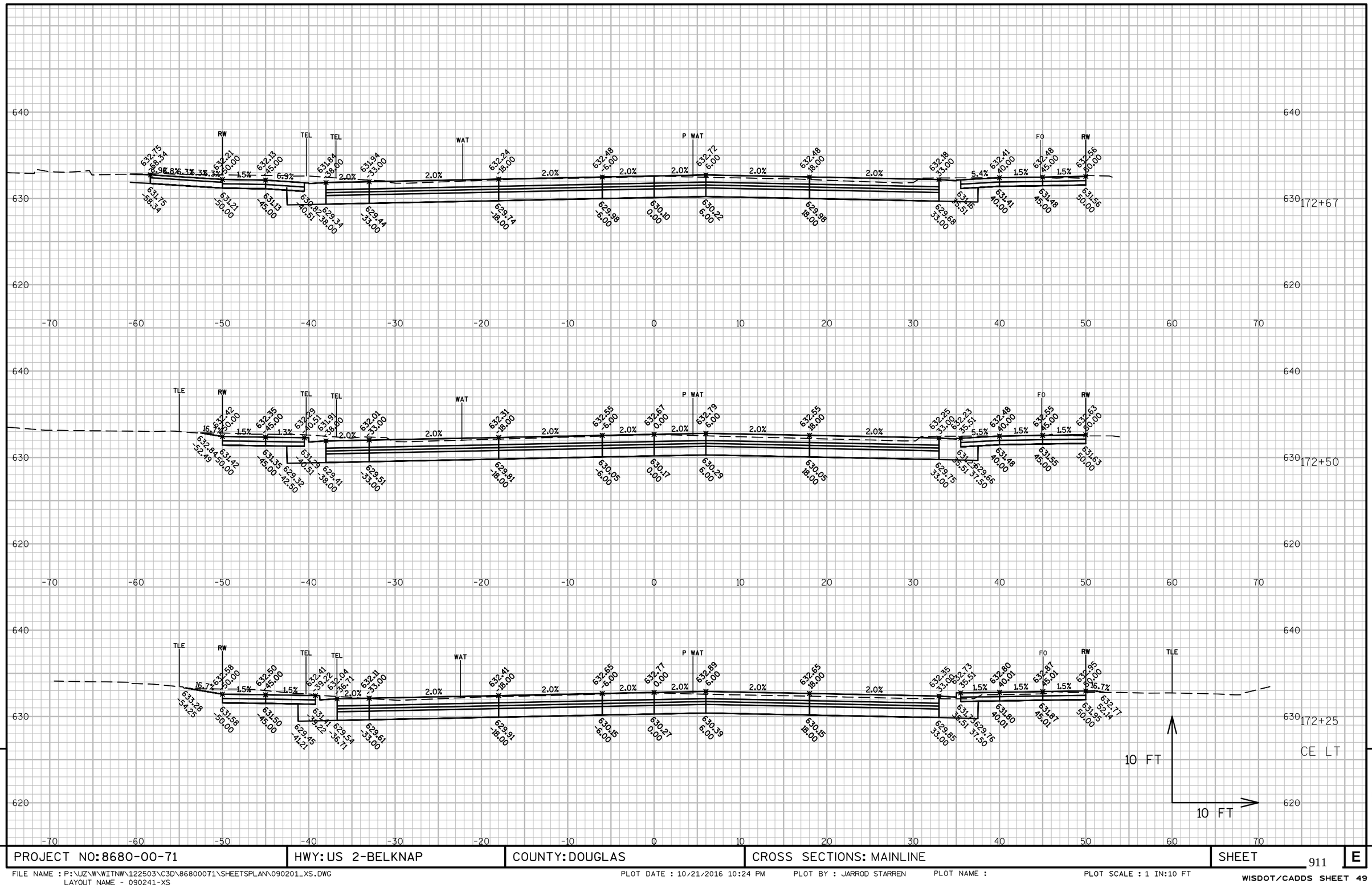
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 910	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090240-XS

PLOT DATE : 10/21/2016 10:23 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 911	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090241-XS

PLOT DATE : 10/21/2016 10:24 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

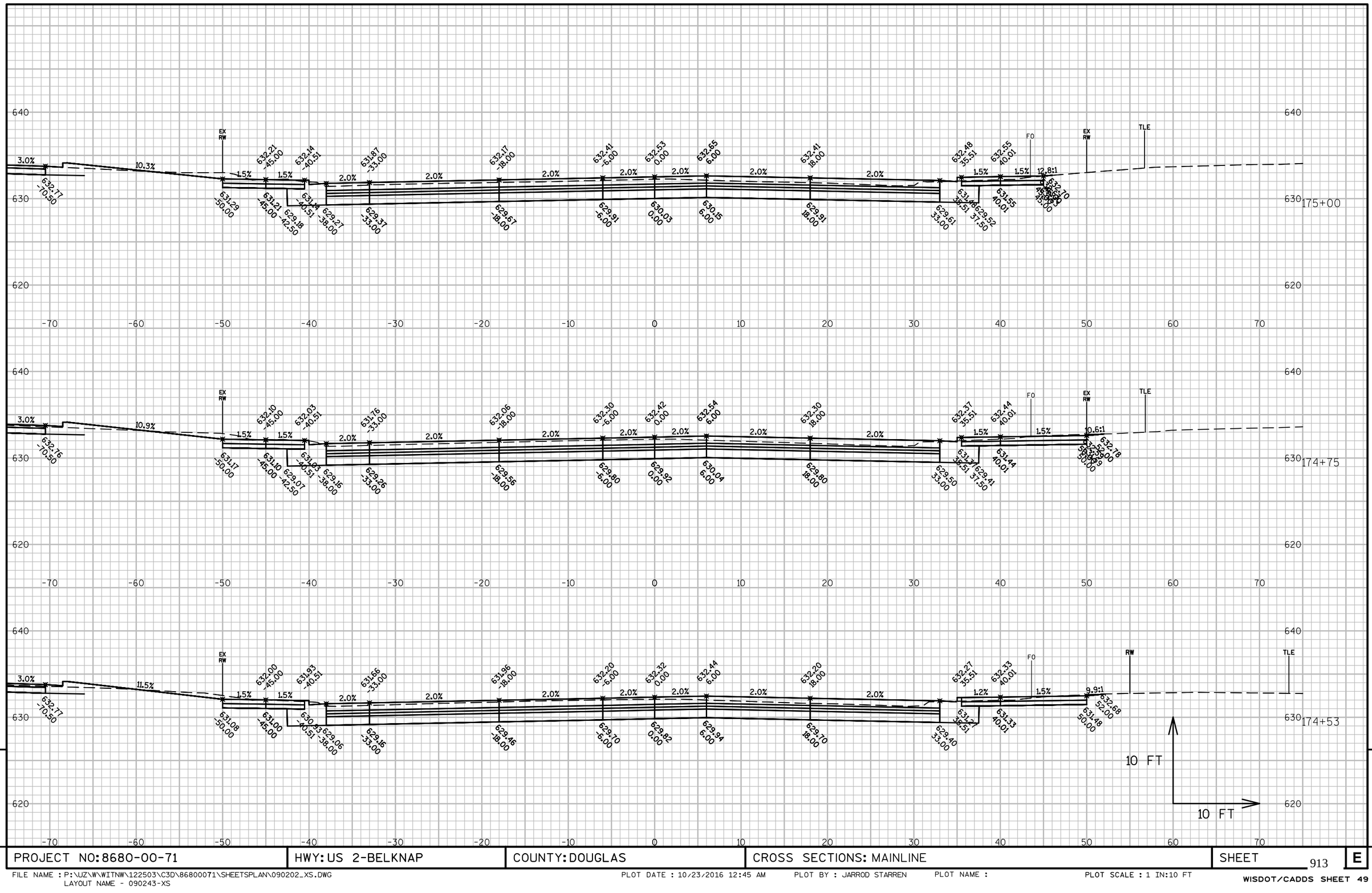
WISDOT/CADDS SHEET 49

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 912	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090242-XS

PLOT DATE : 10/21/2016 10:26 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 913	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090243-XS

PLOT DATE : 10/23/2016 12:45 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

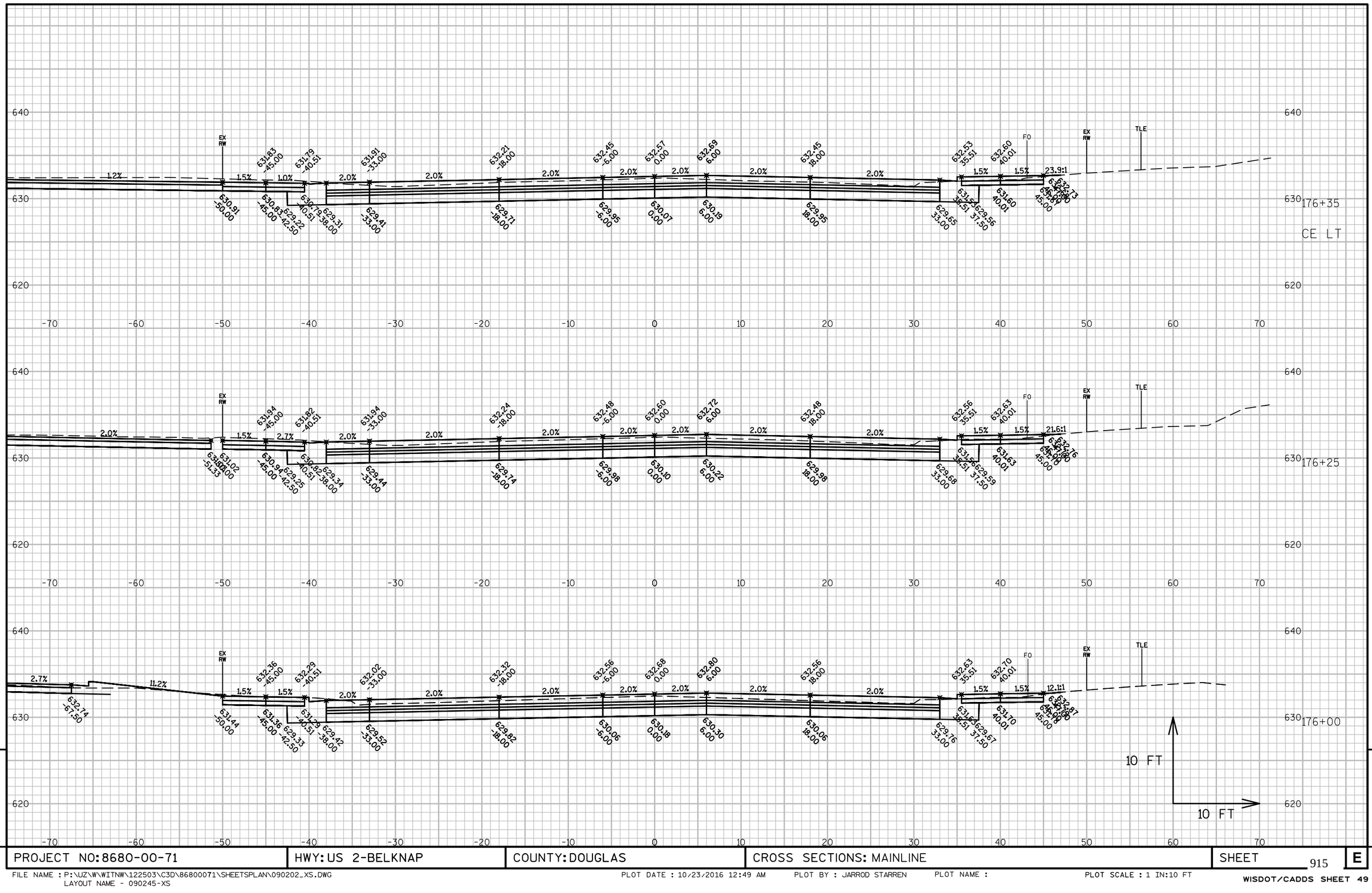
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 914	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090244-XS

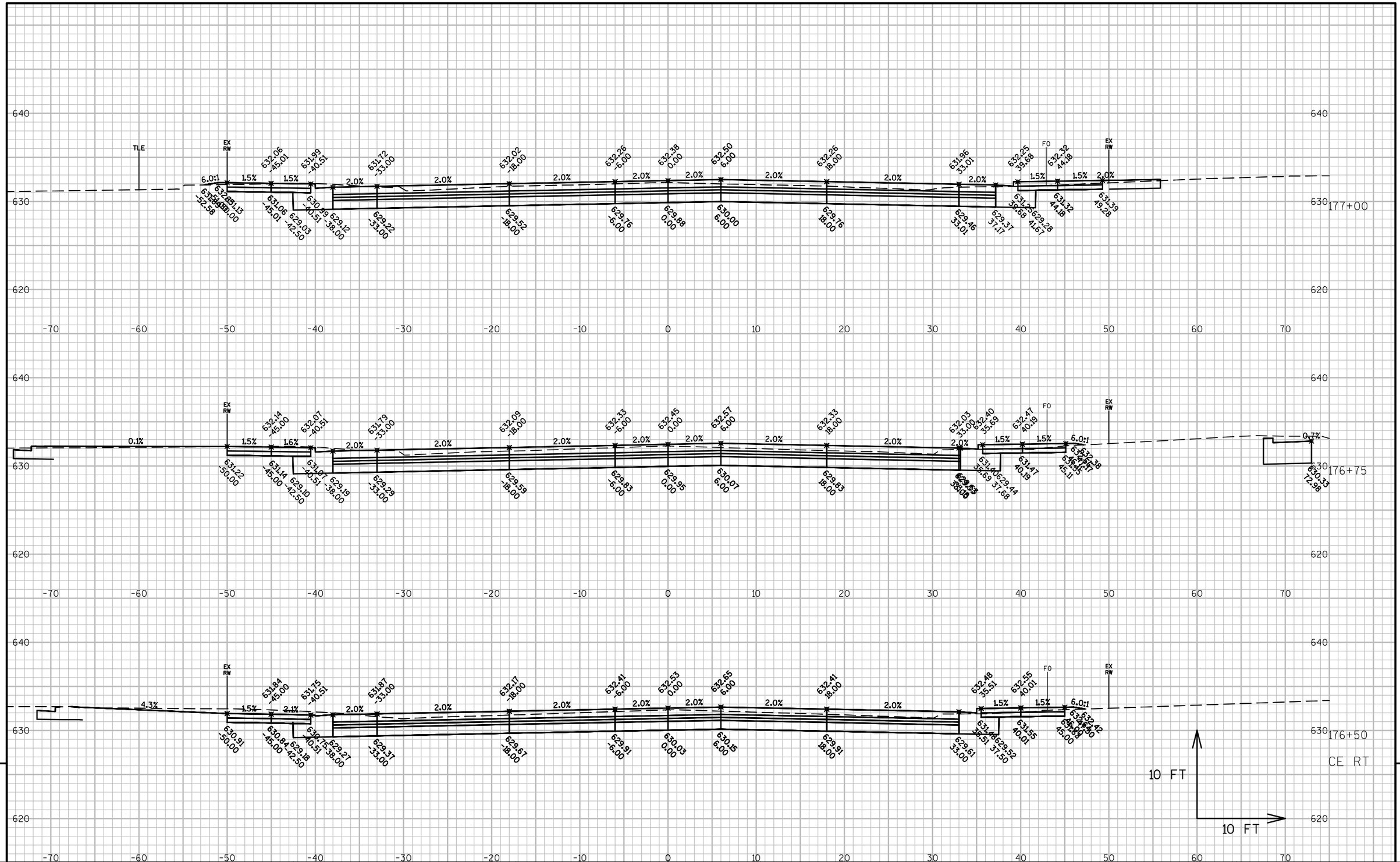
PLOT DATE : 10/23/2016 12:47 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 915	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090245-XS

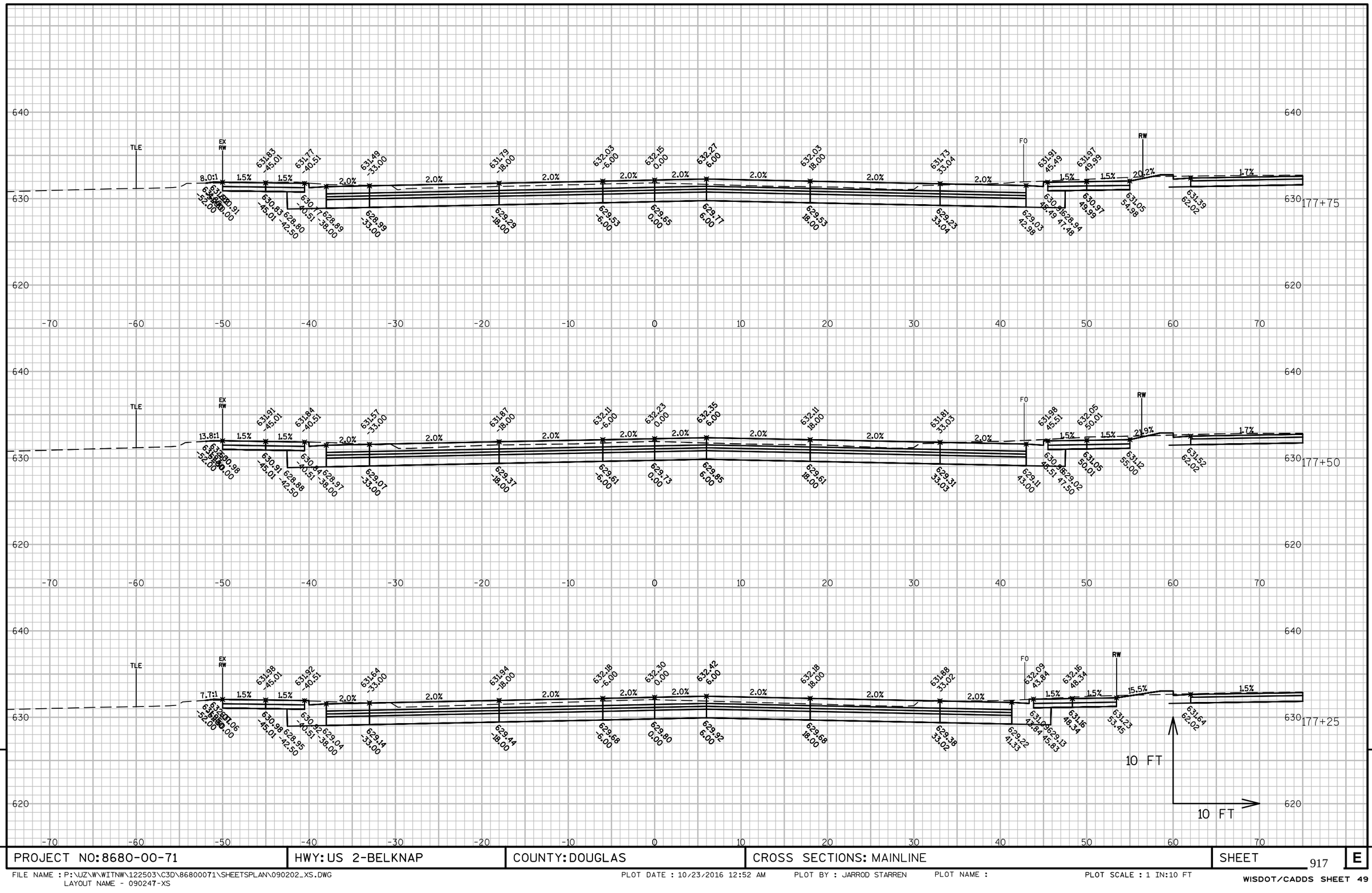
PLOT DATE : 10/23/2016 12:49 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 916 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090246-XS

PLOT DATE : 10/23/2016 12:50 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

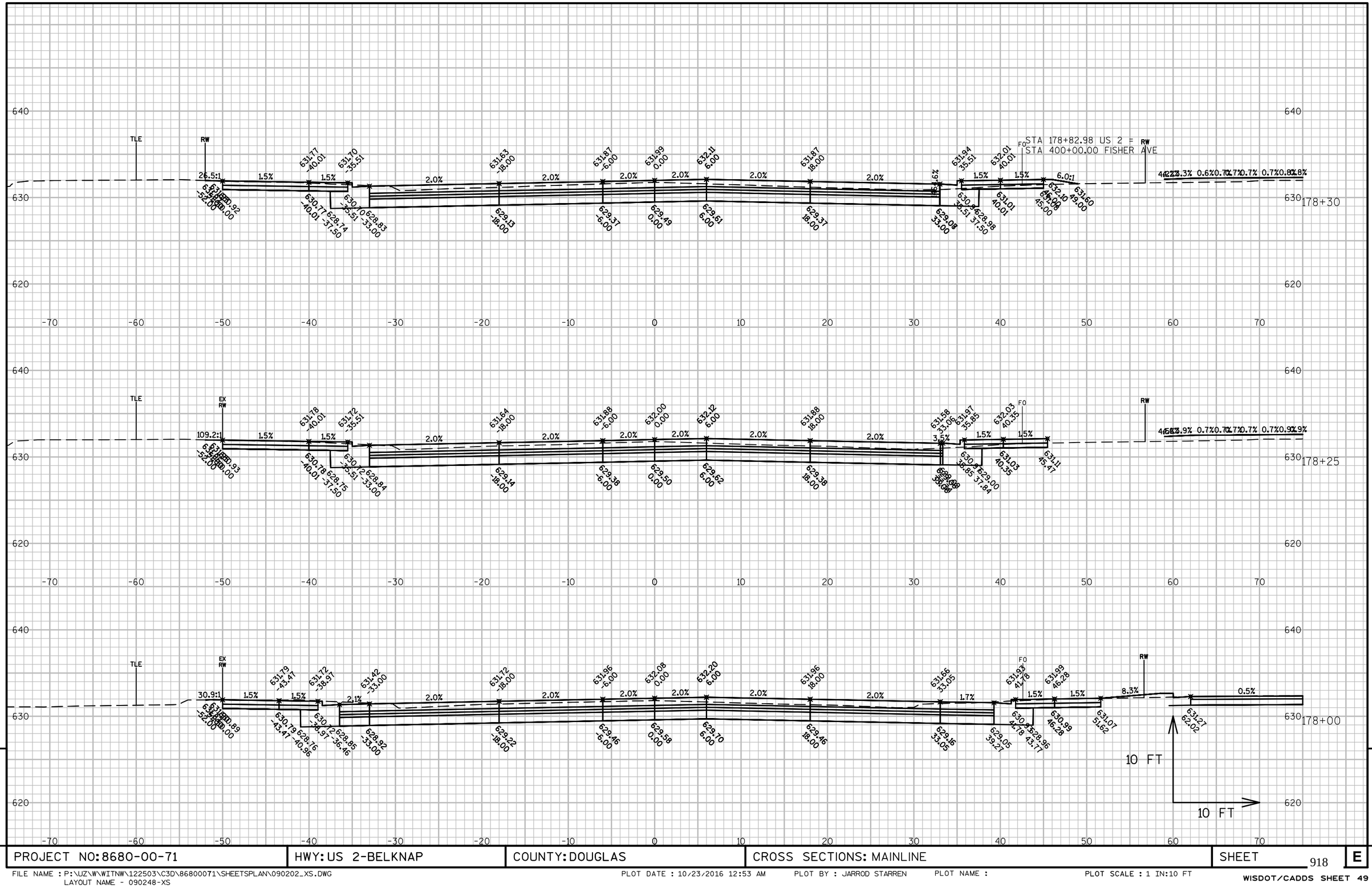


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 917	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090247-XS

PLOT DATE : 10/23/2016 12:52 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

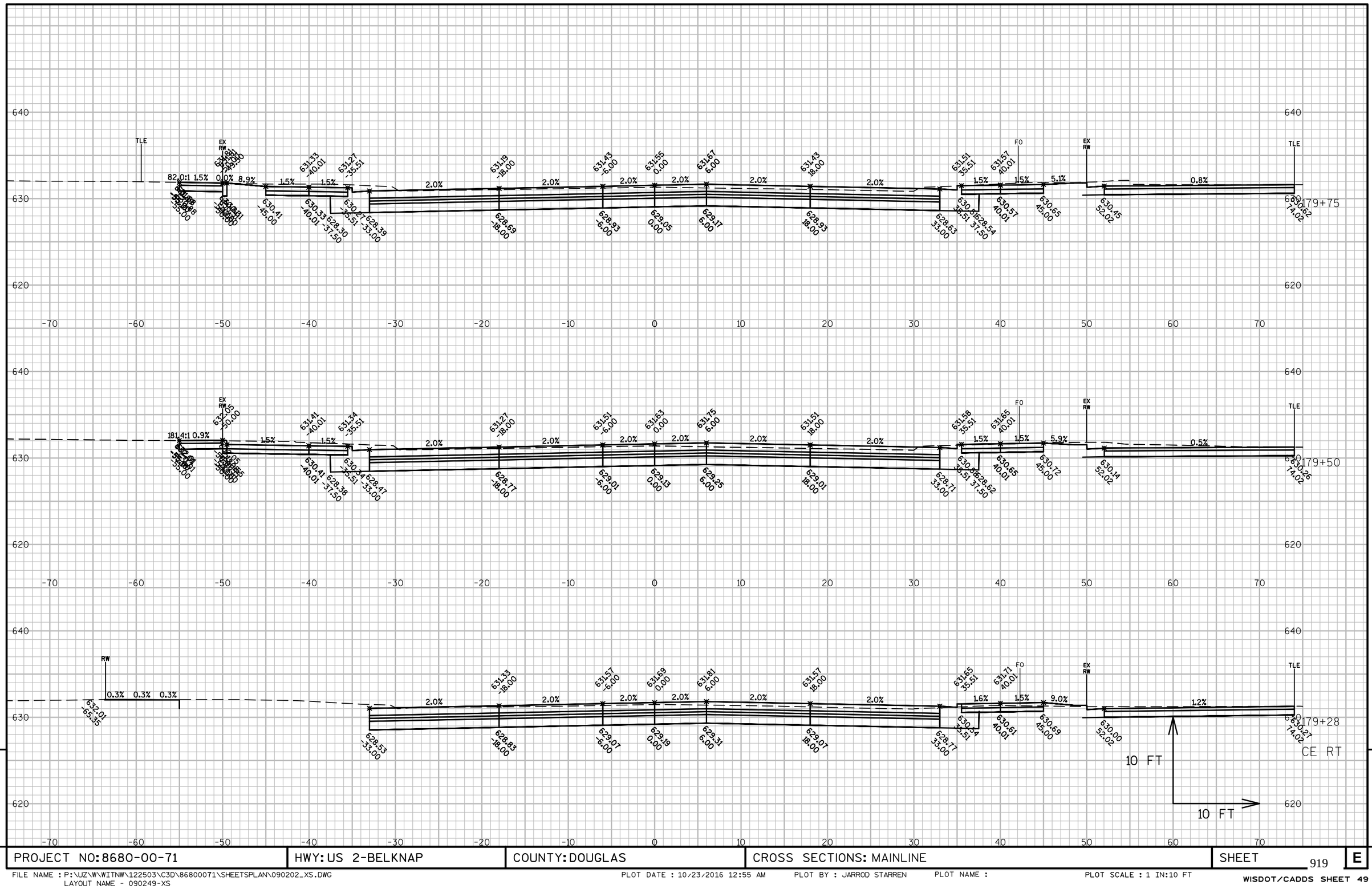


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 918	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090248-XS

PLOT DATE : 10/23/2016 12:53 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 919	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090249-XS

PLOT DATE : 10/23/2016 12:55 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

9

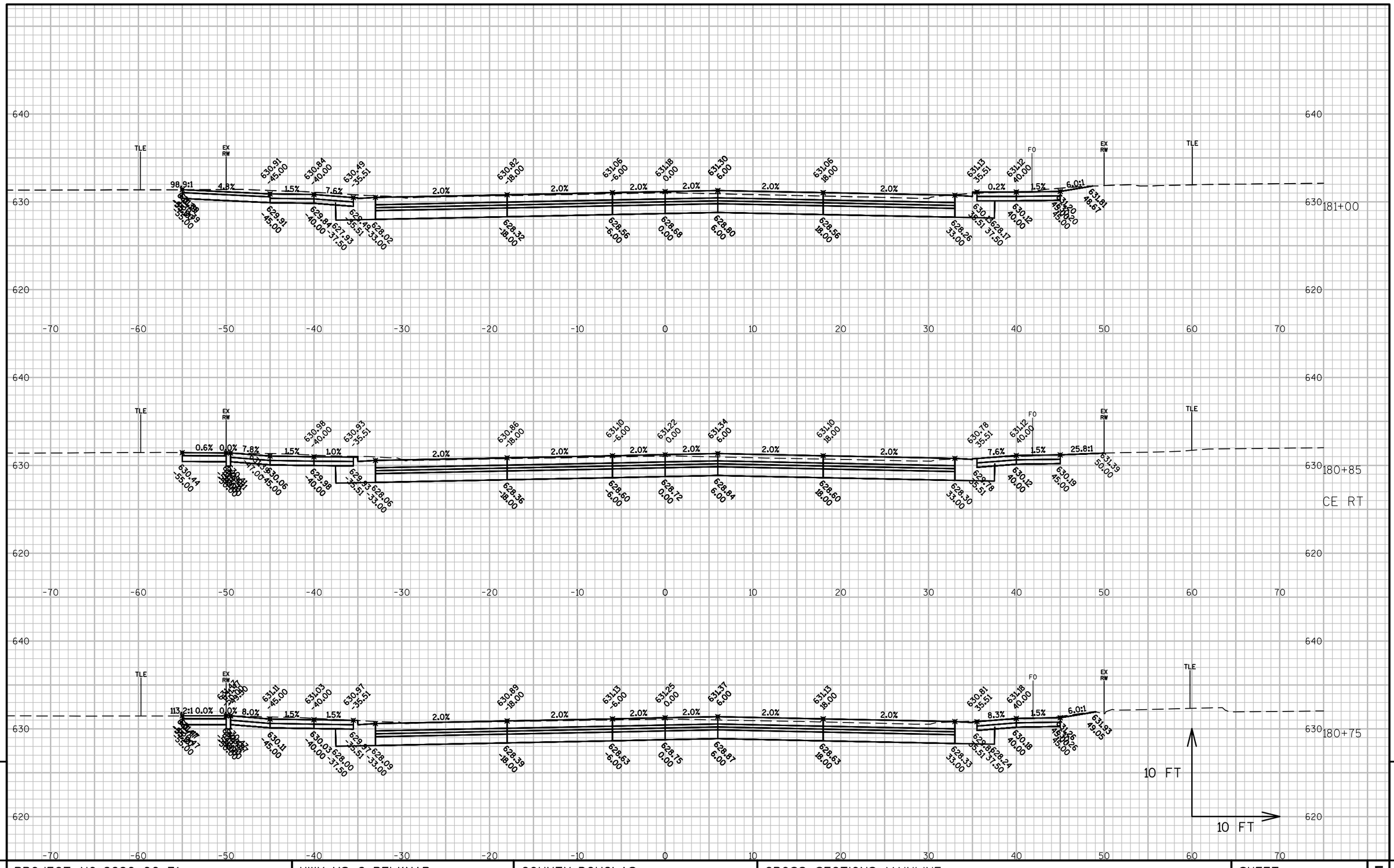
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 920	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090250-XS

PLOT DATE : 10/23/2016 12:57 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



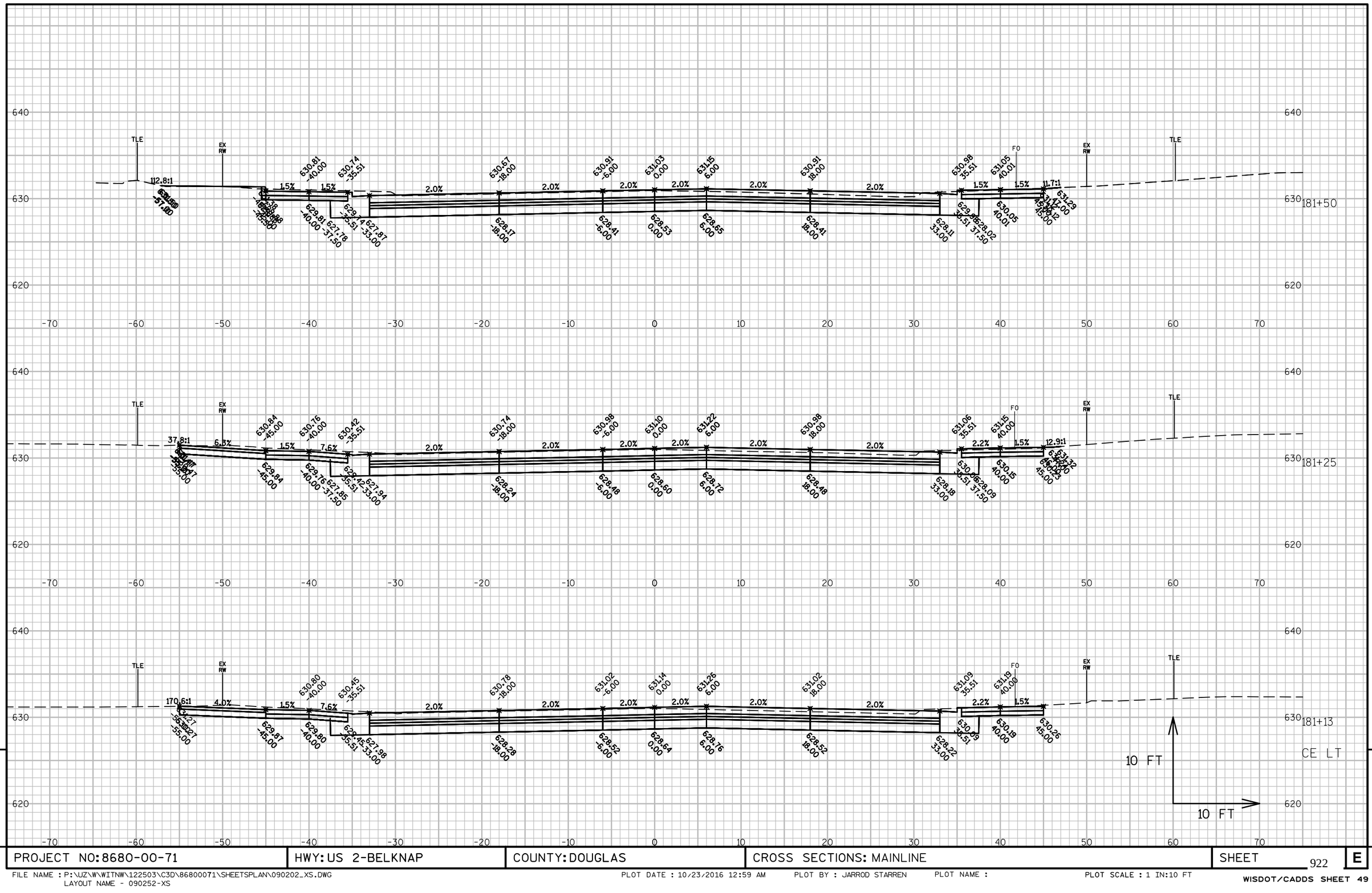
9

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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 921	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090251-XS

PLOT DATE : 10/23/2016 12:58 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



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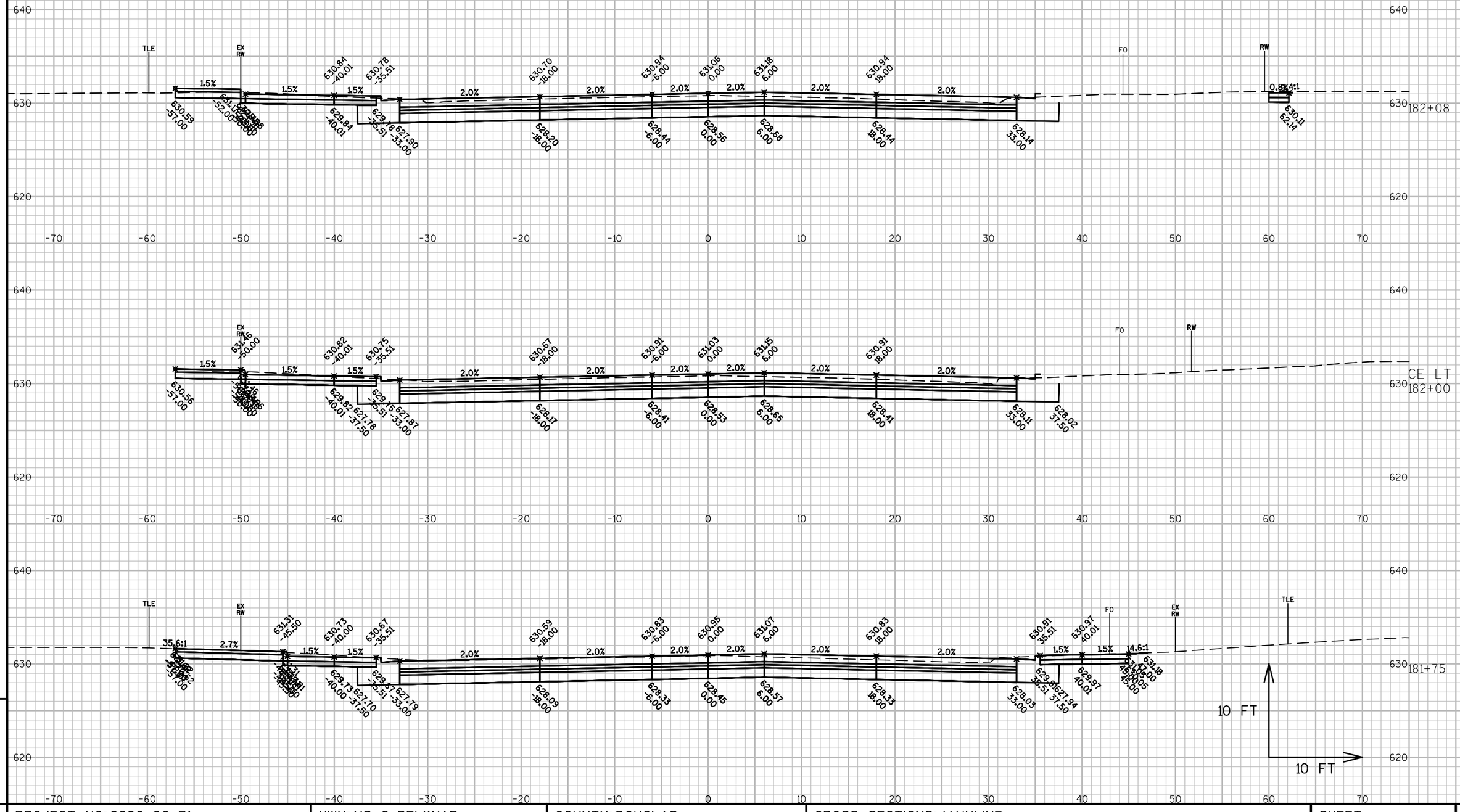
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 922	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090252-XS

PLOT DATE : 10/23/2016 12:59 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 182+53.07 US 2 =
STA 410+00.00 CATLIN AVE

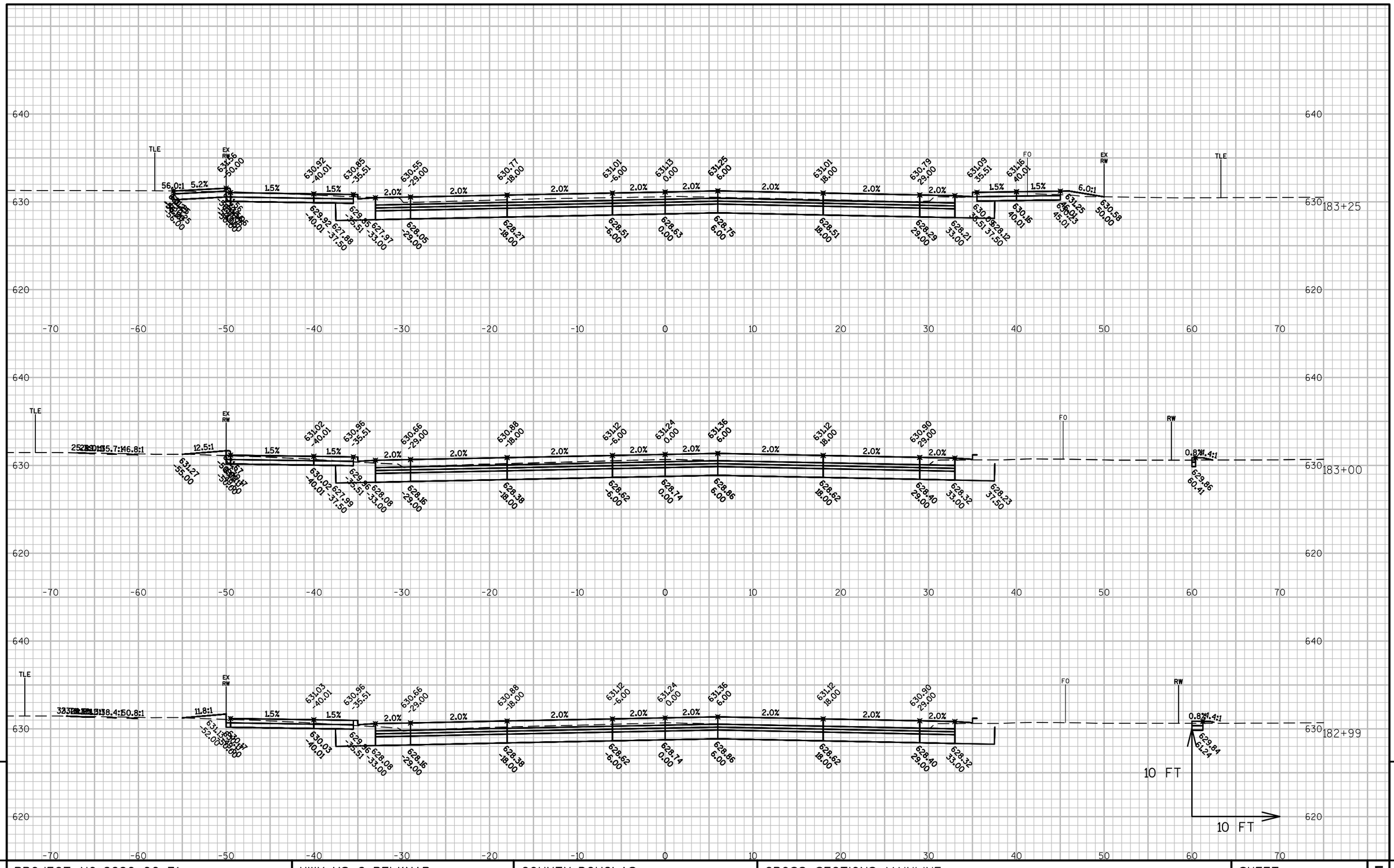


9 9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 923	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090253-XS

PLOT DATE : 10/23/2016 1:01 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



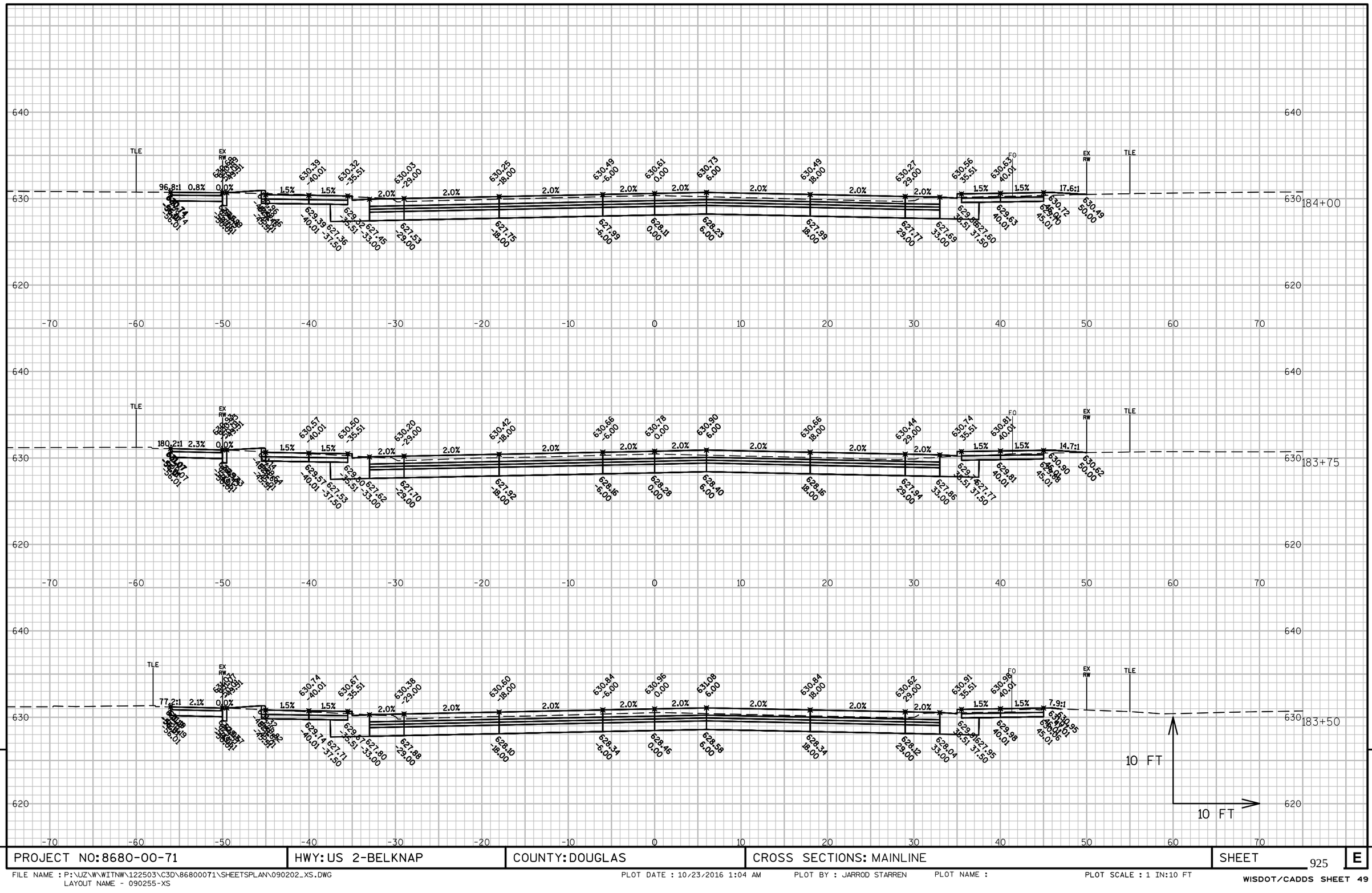
9

9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 924	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090254-XS

PLOT DATE : 10/23/2016 1:02 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

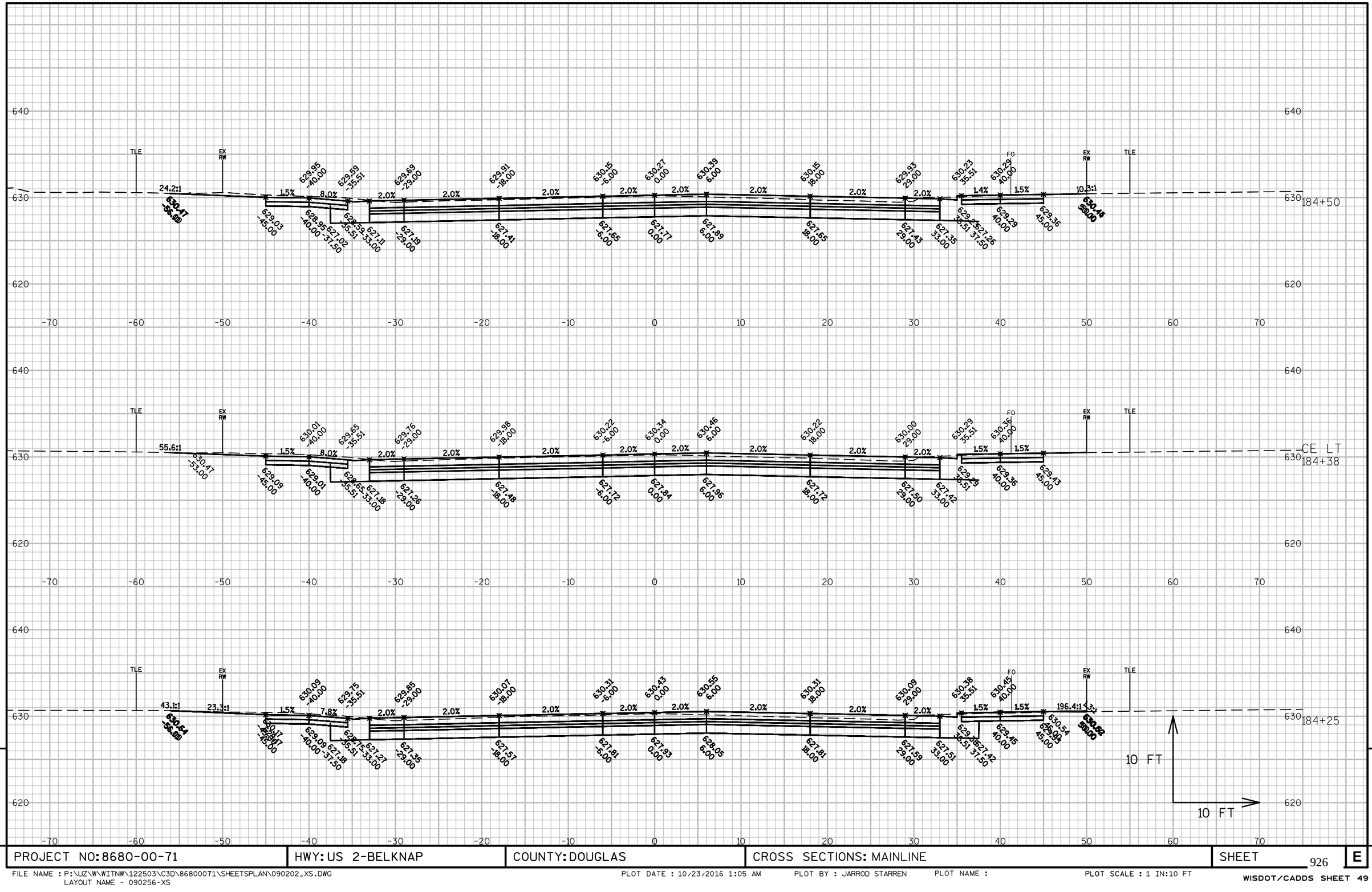


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 925	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090255-XS

PLOT DATE : 10/23/2016 1:04 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



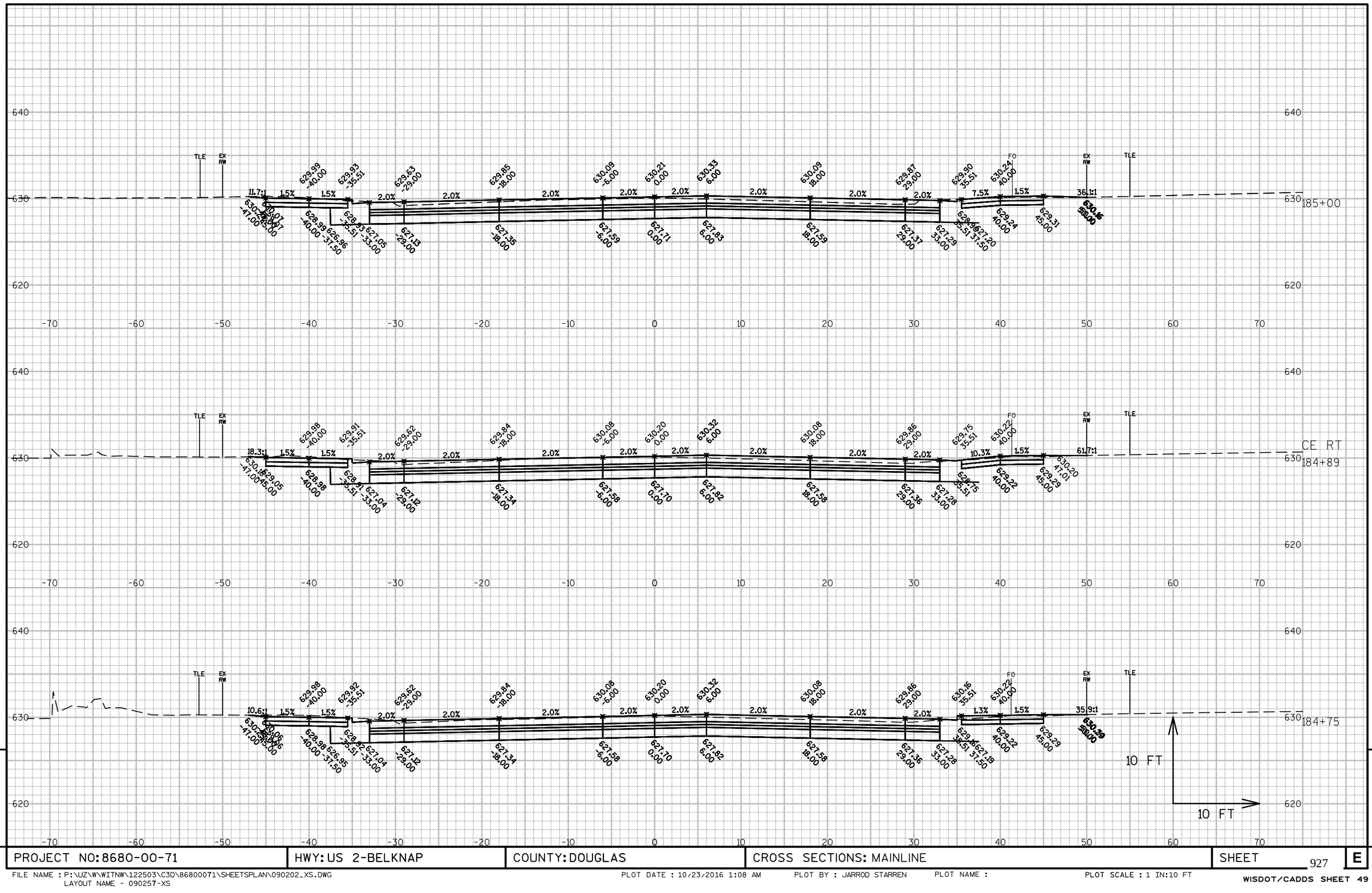
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 926	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090256-XS

PLOT DATE : 10/23/2016 1:05 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

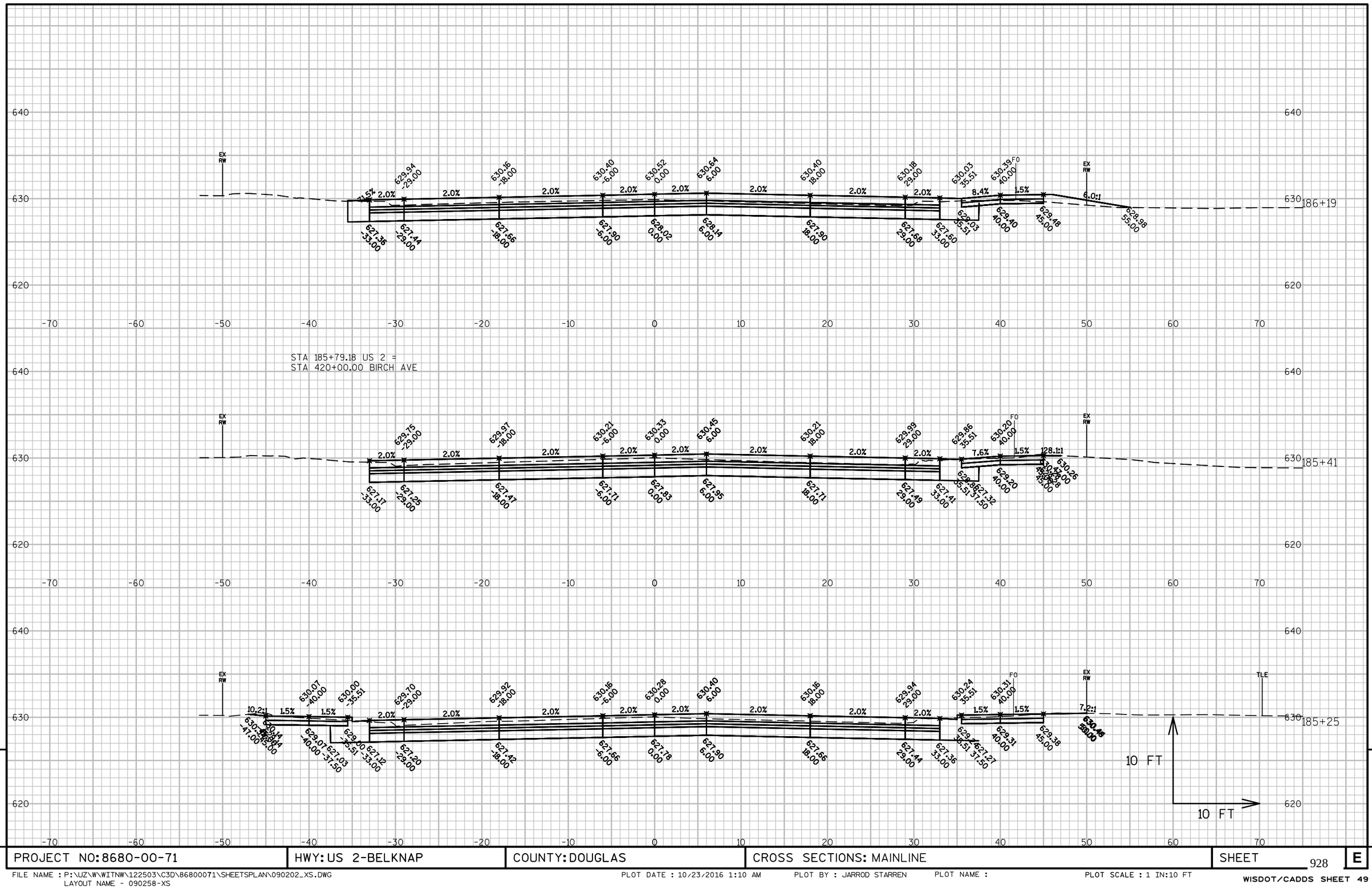
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 927	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090257-XS

PLOT DATE : 10/23/2016 1:08 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 185+79.18 US 2 =
STA 420+00.00 BIRCH AVE

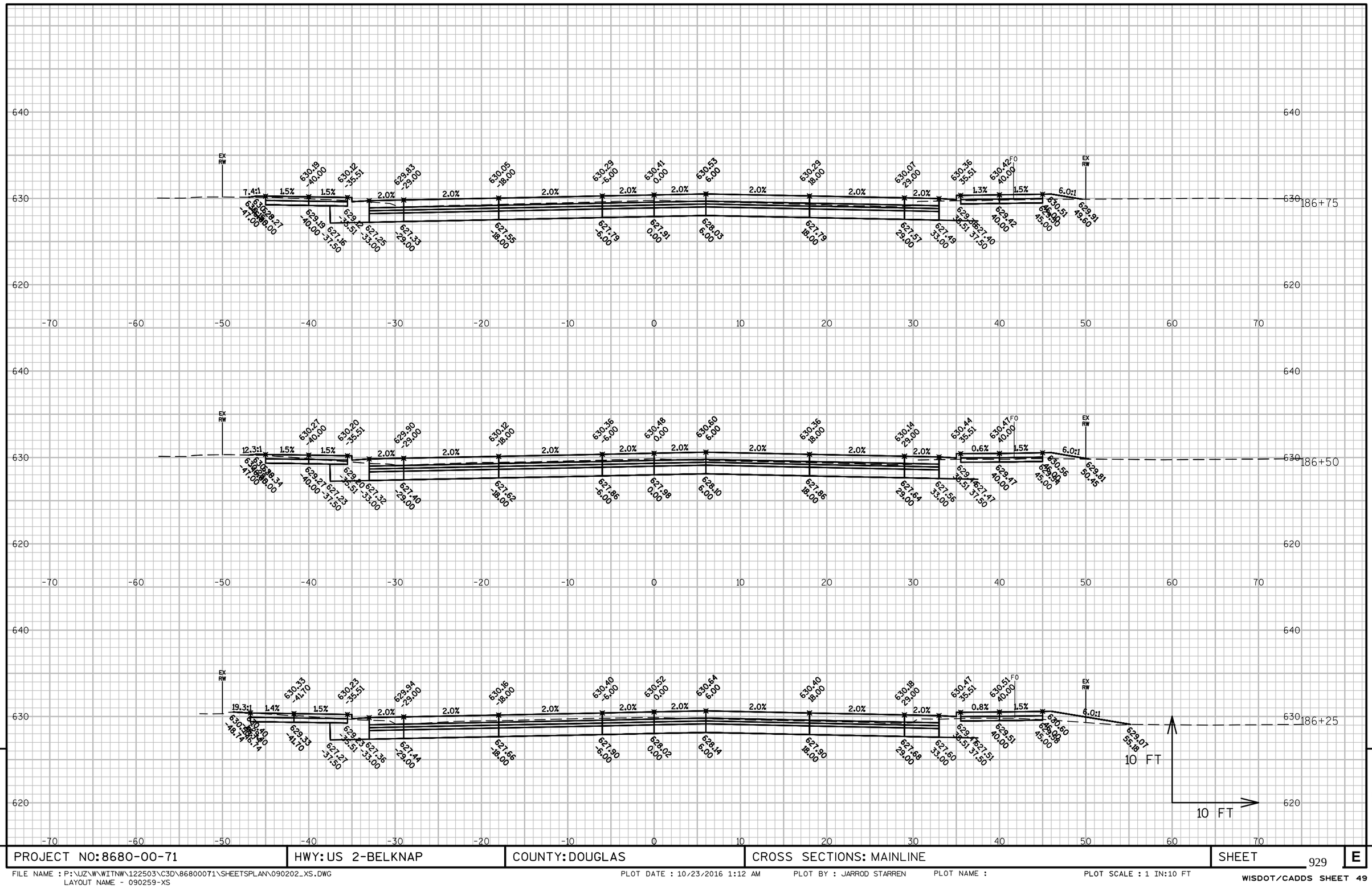


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 928	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090258-XS

PLOT DATE : 10/23/2016 1:10 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

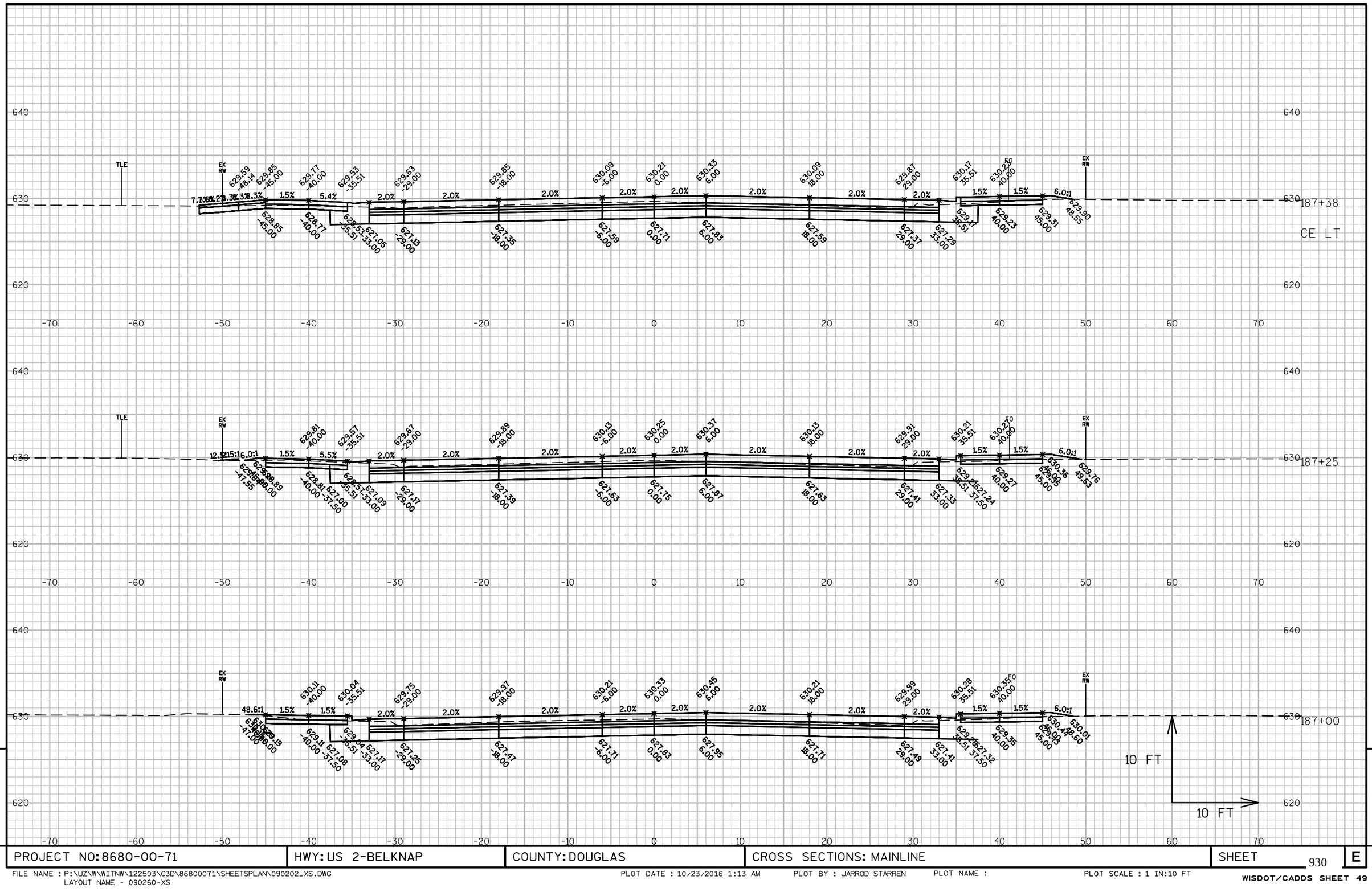


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 929	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090259-XS

PLOT DATE : 10/23/2016 1:12 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



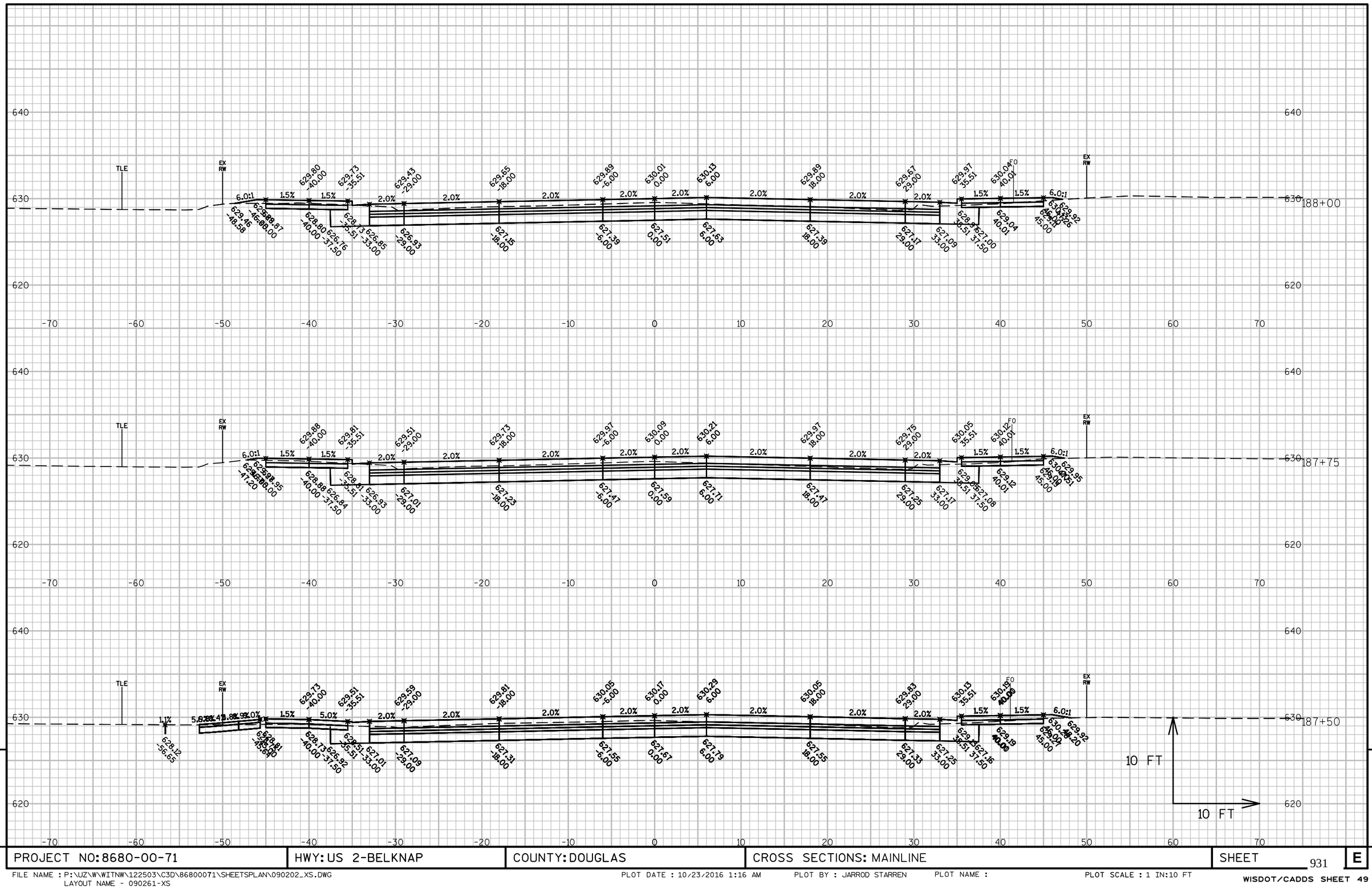
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 930	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090260-XS

PLOT DATE : 10/23/2016 1:13 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 931	E

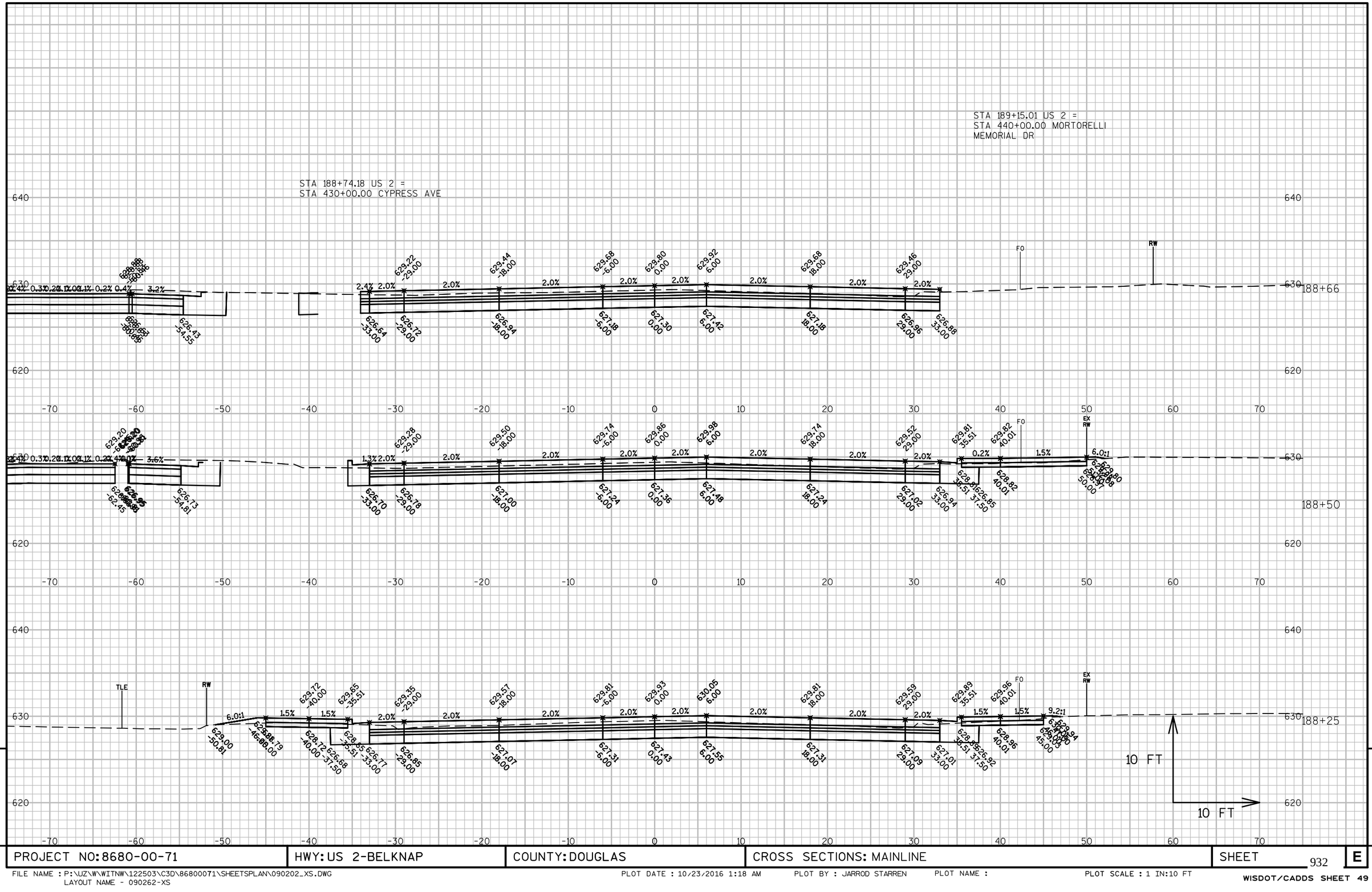
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090261-XS

PLOT DATE : 10/23/2016 1:16 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STA 188+74.18 US 2 =
STA 430+00.00 CYPRESS AVE

STA 189+15.01 US 2 =
STA 440+00.00 MORTORELLI
MEMORIAL DR



9

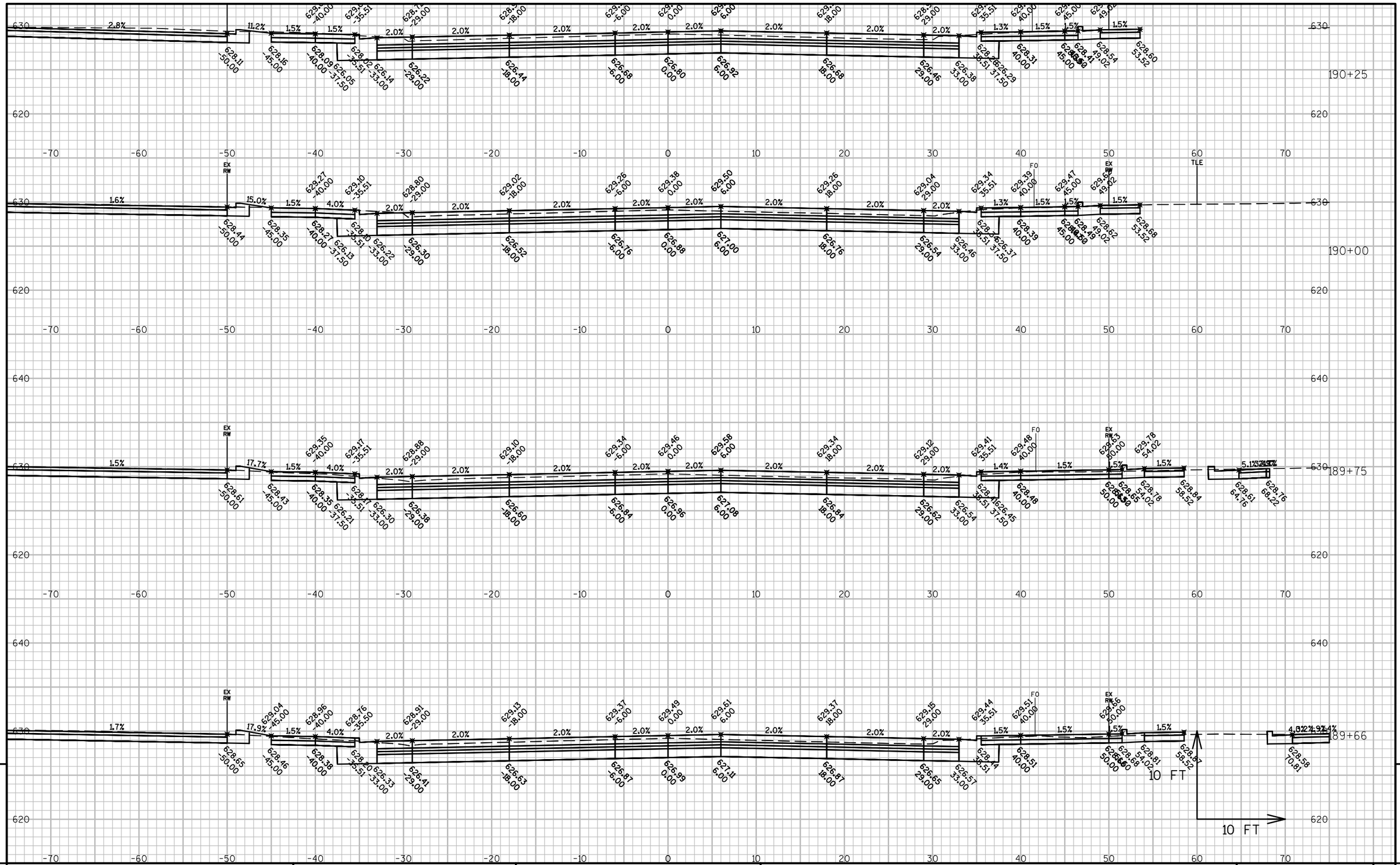
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 932	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090262-XS

PLOT DATE : 10/23/2016 1:18 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

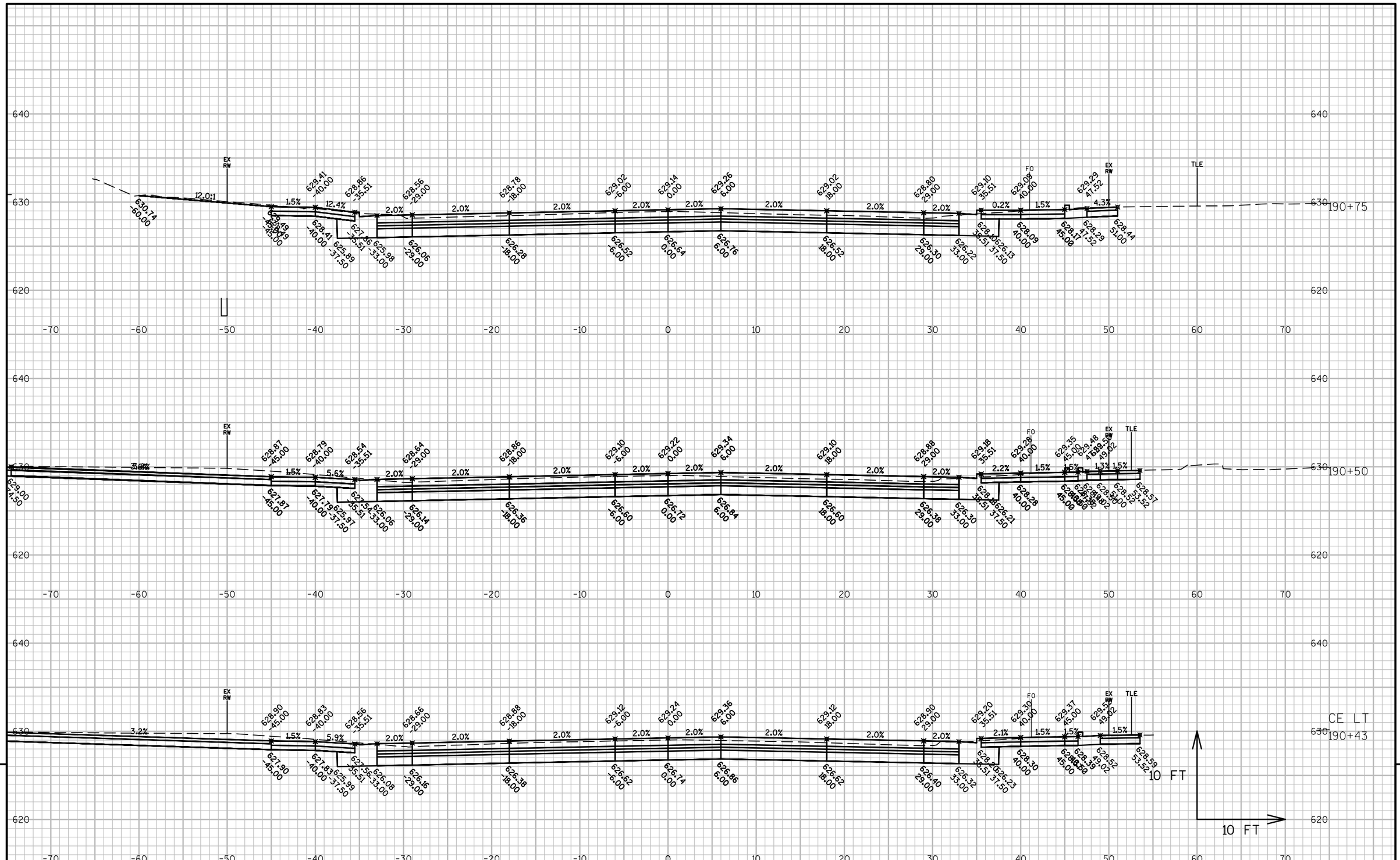


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 933	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090263-XS

PLOT DATE : 10/23/2016 1:20 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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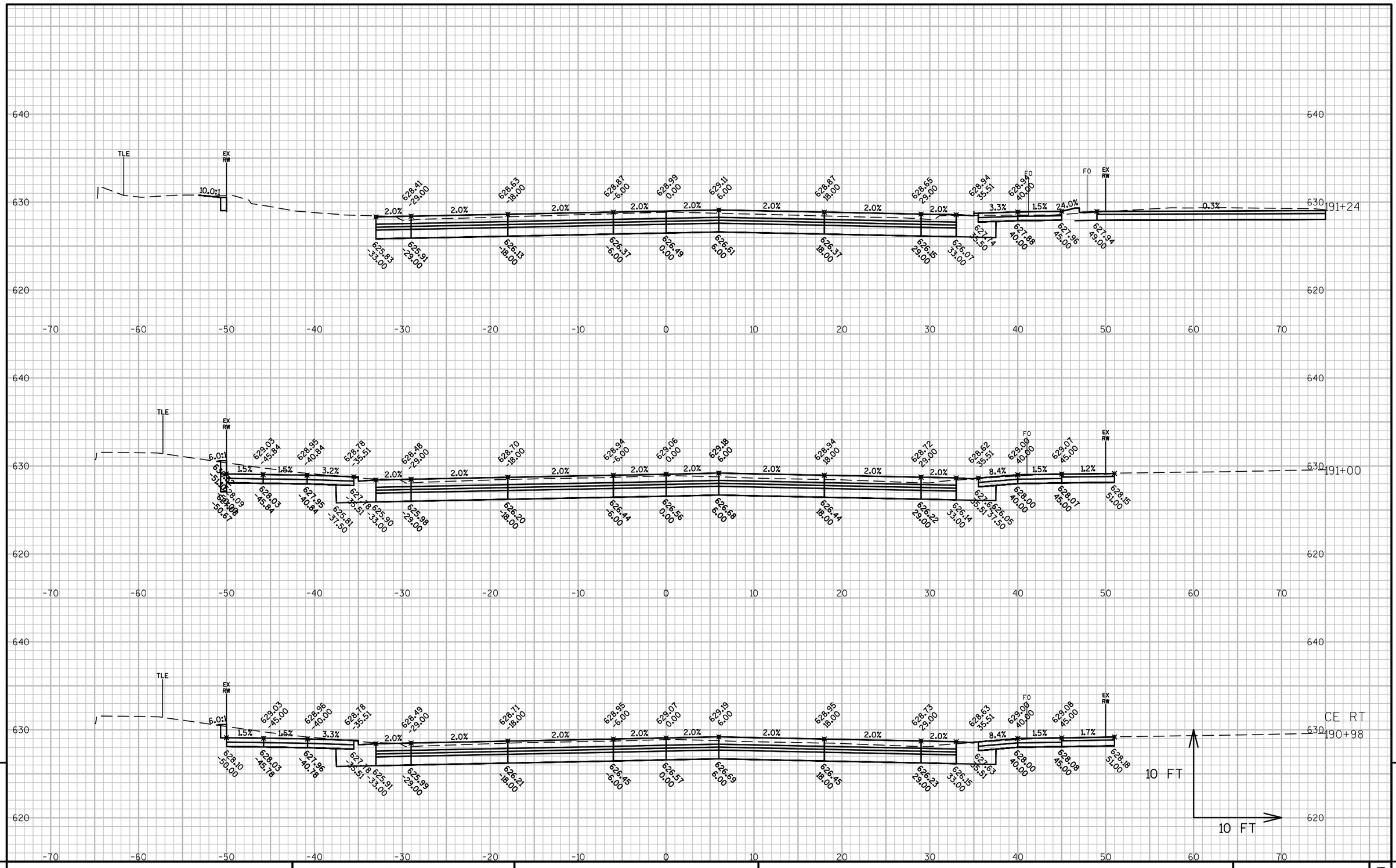
PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 934	E

9

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090264-XS

PLOT DATE : 10/23/2016 1:21 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

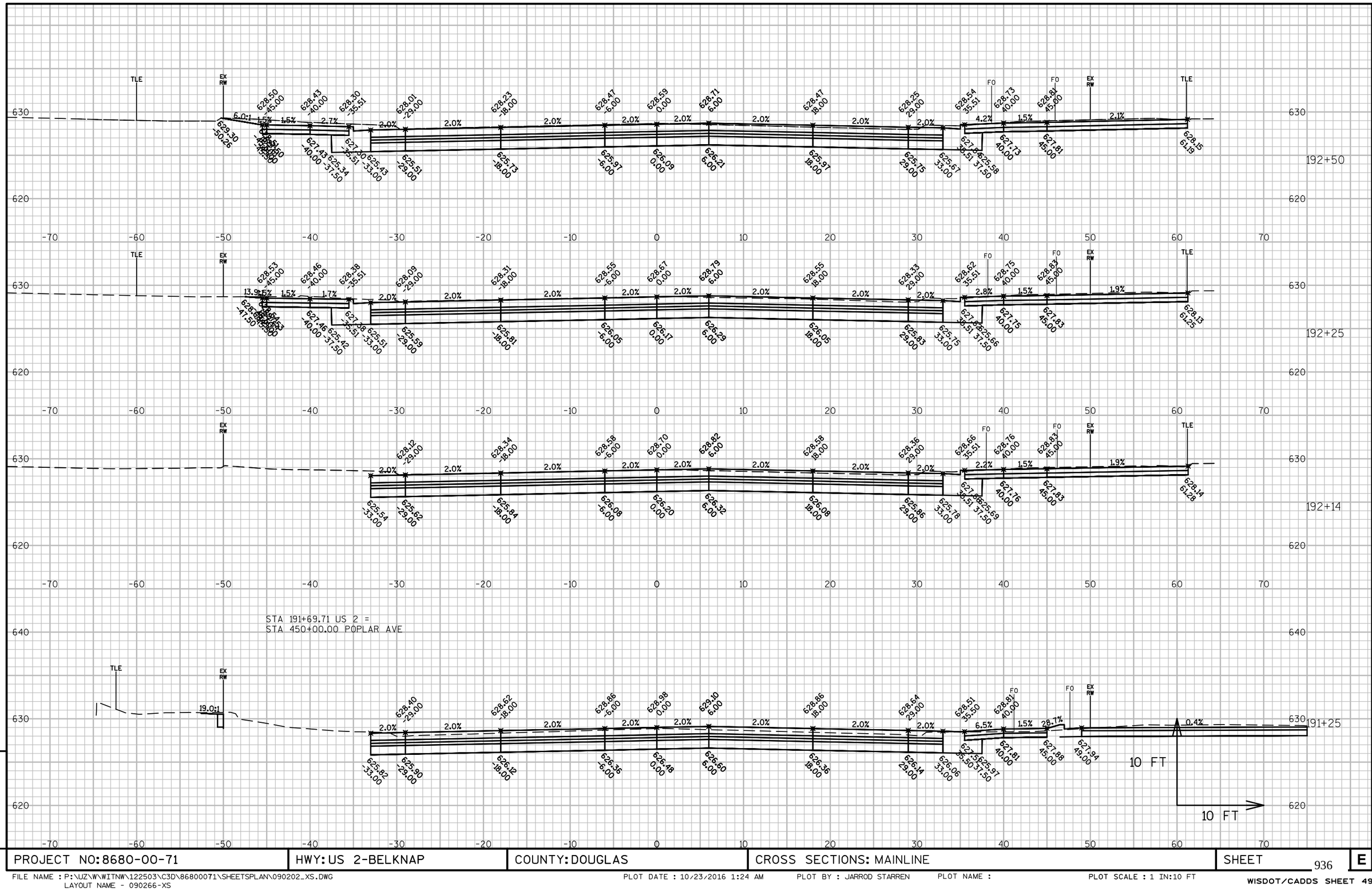


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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 935	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090265-XS
PLOT DATE : 10/23/2016 1:23 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



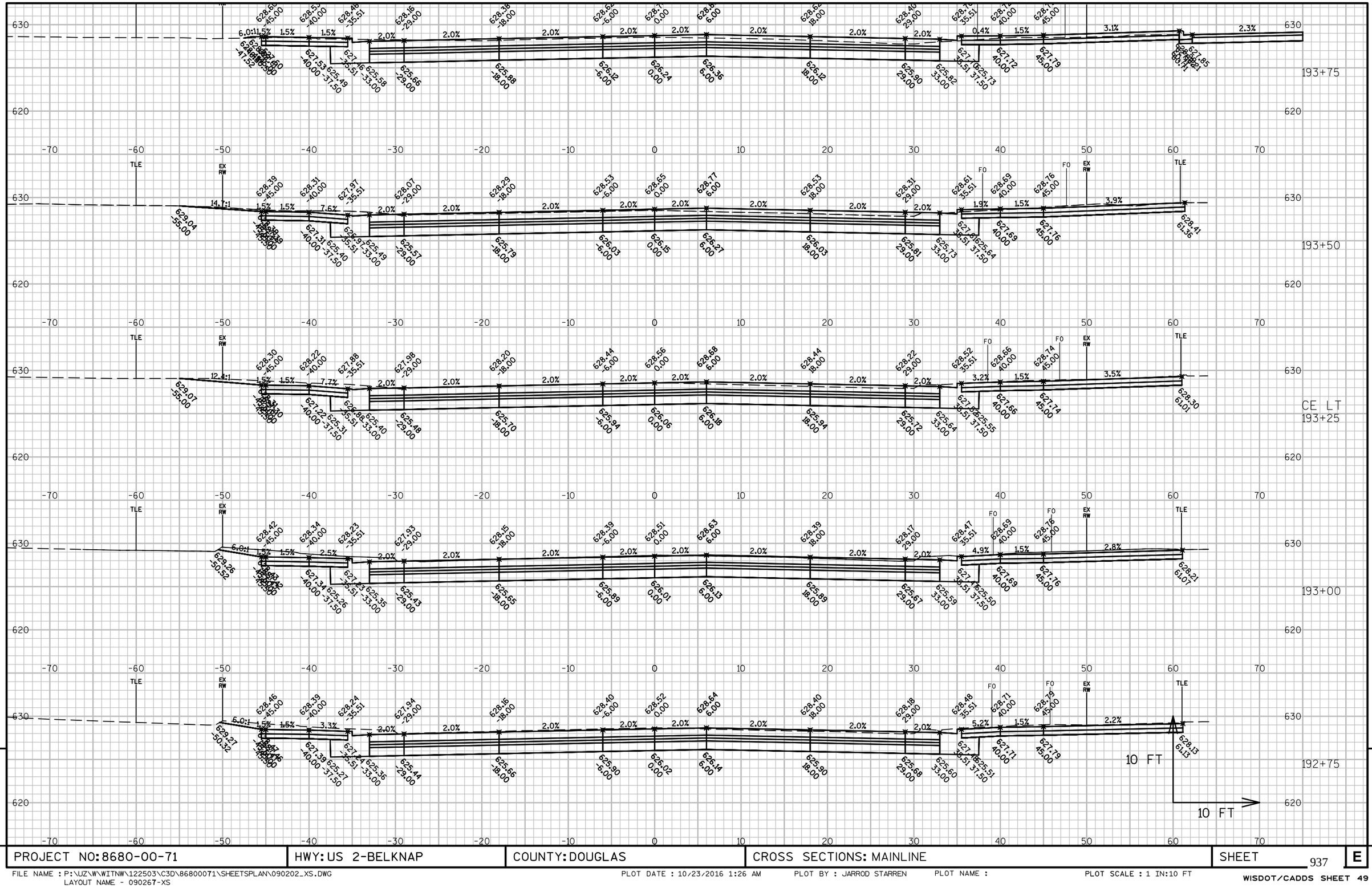
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 936	E

9

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090266-XS

PLOT DATE : 10/23/2016 1:24 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

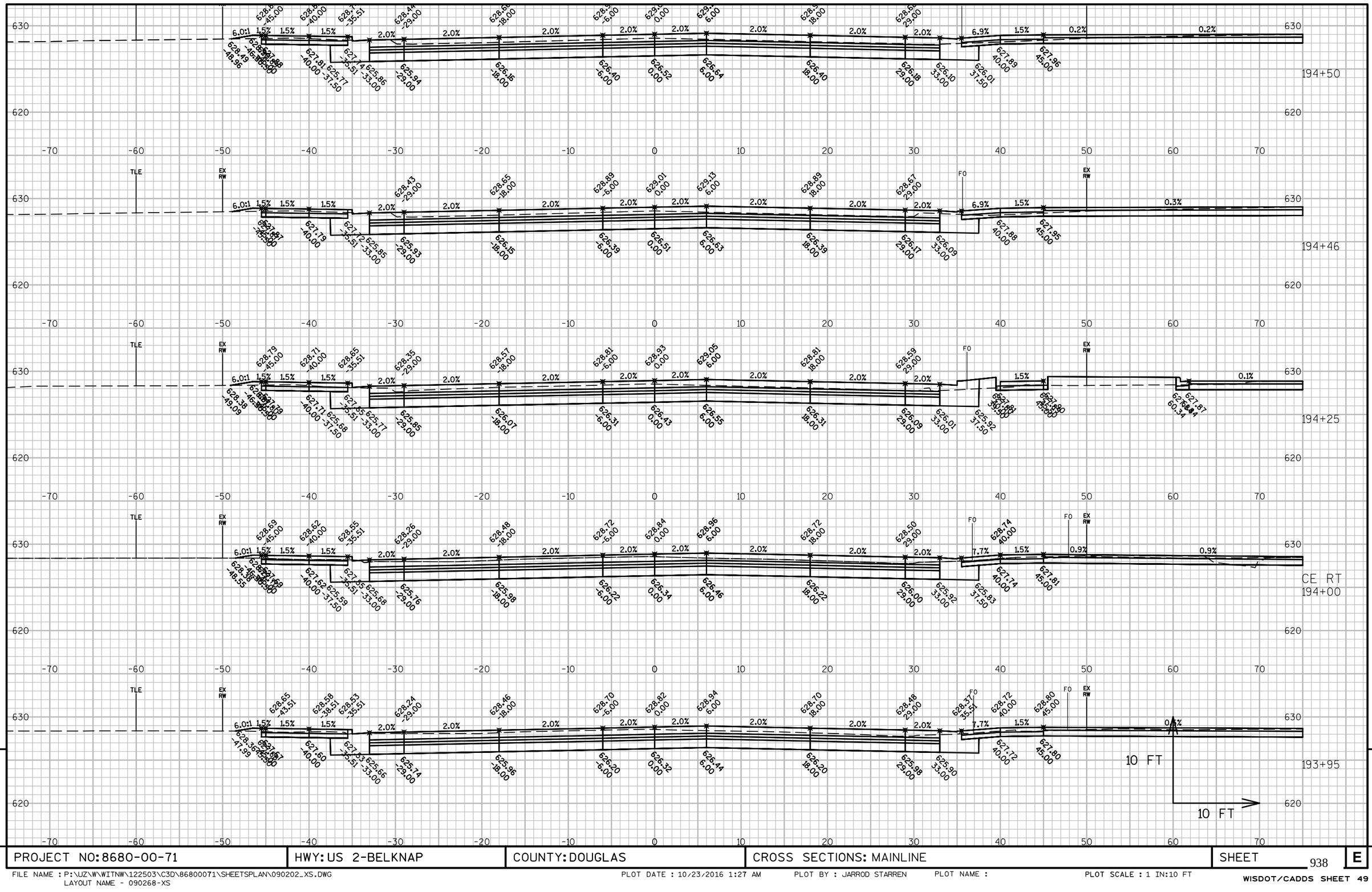


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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 937	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090267-XS
PLOT DATE : 10/23/2016 1:26 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



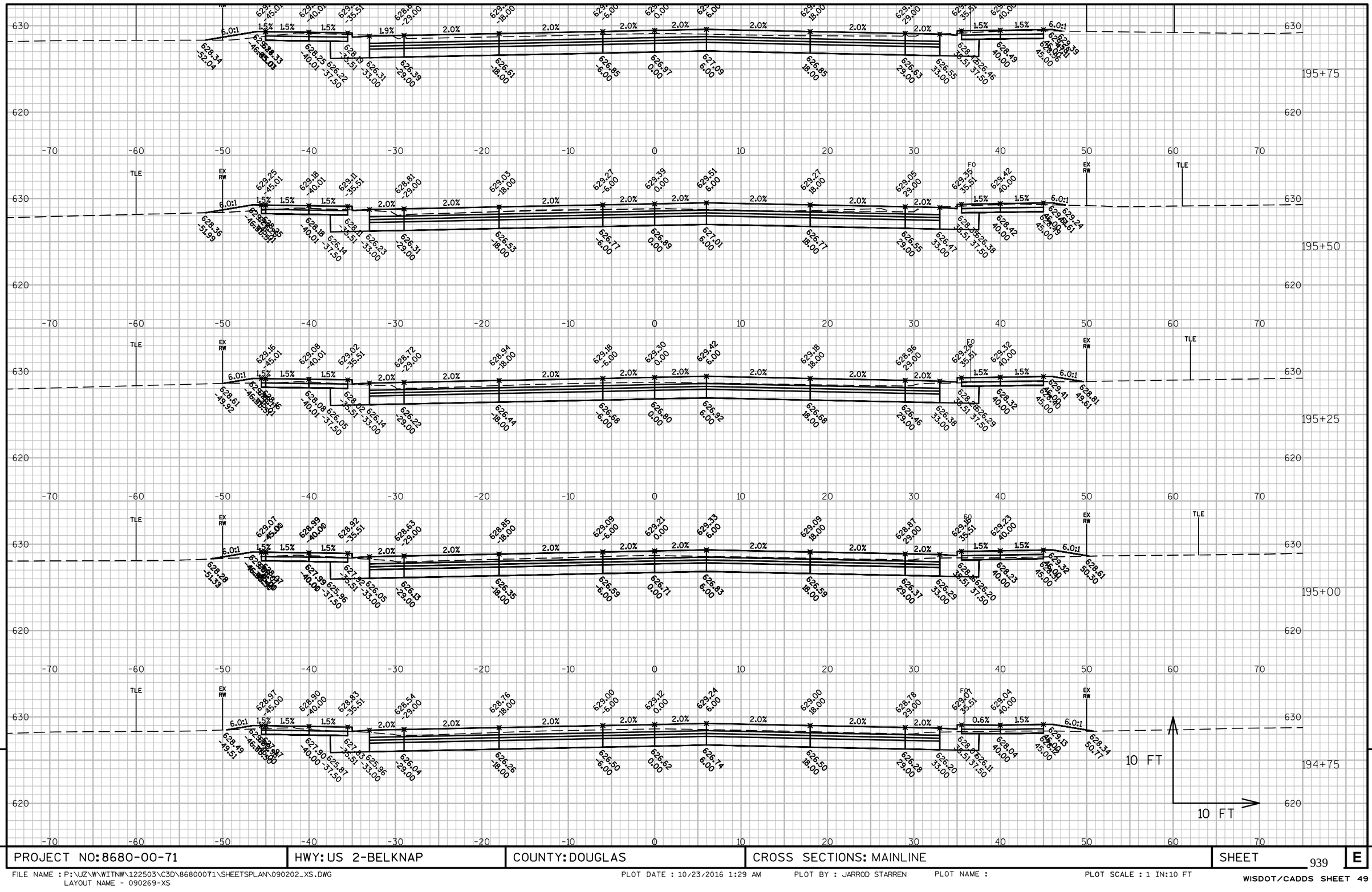
9

9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 938	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090268-XS

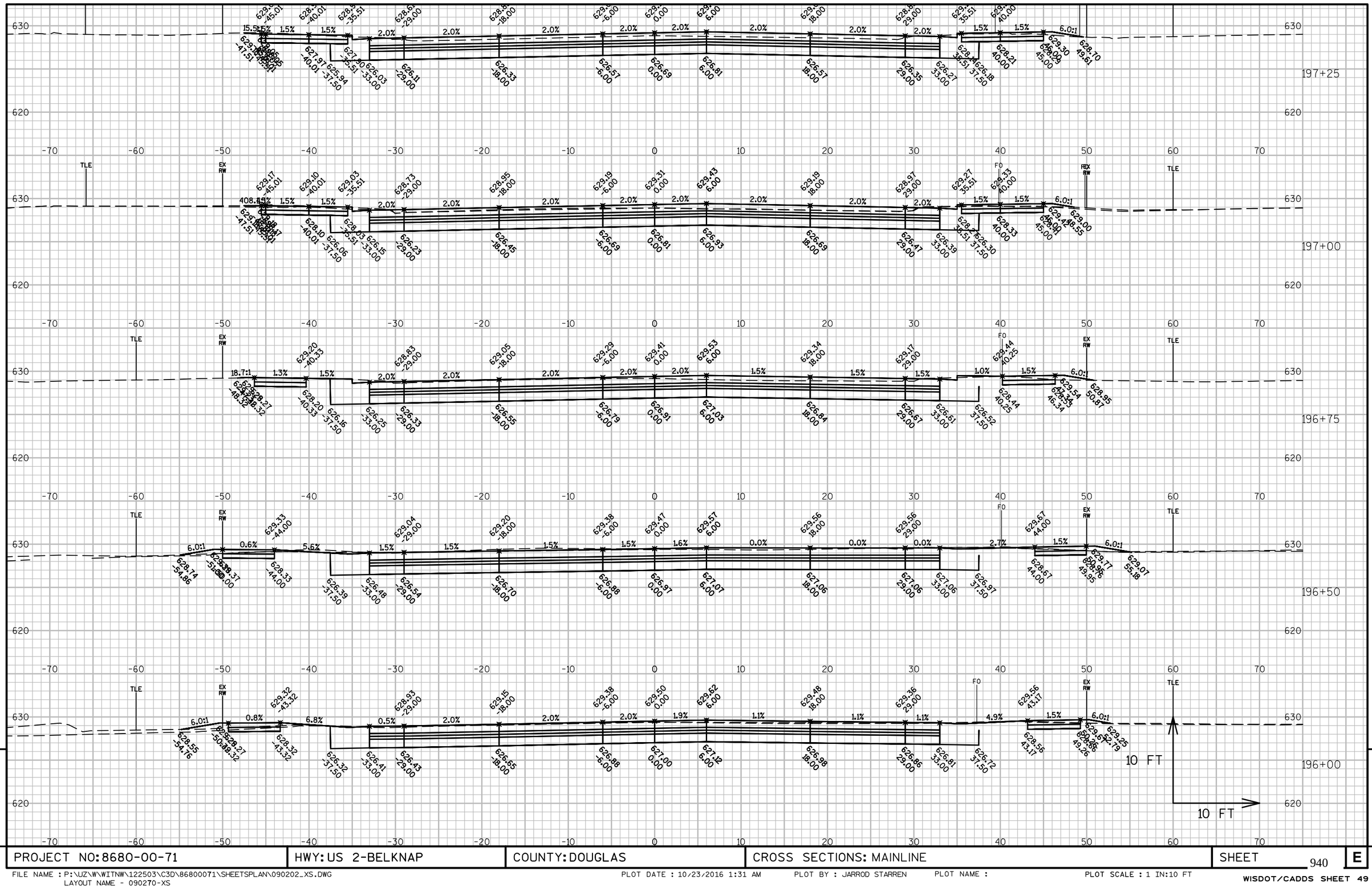
PLOT DATE : 10/23/2016 1:27 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 939 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090269-XS

PLOT DATE : 10/23/2016 1:29 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

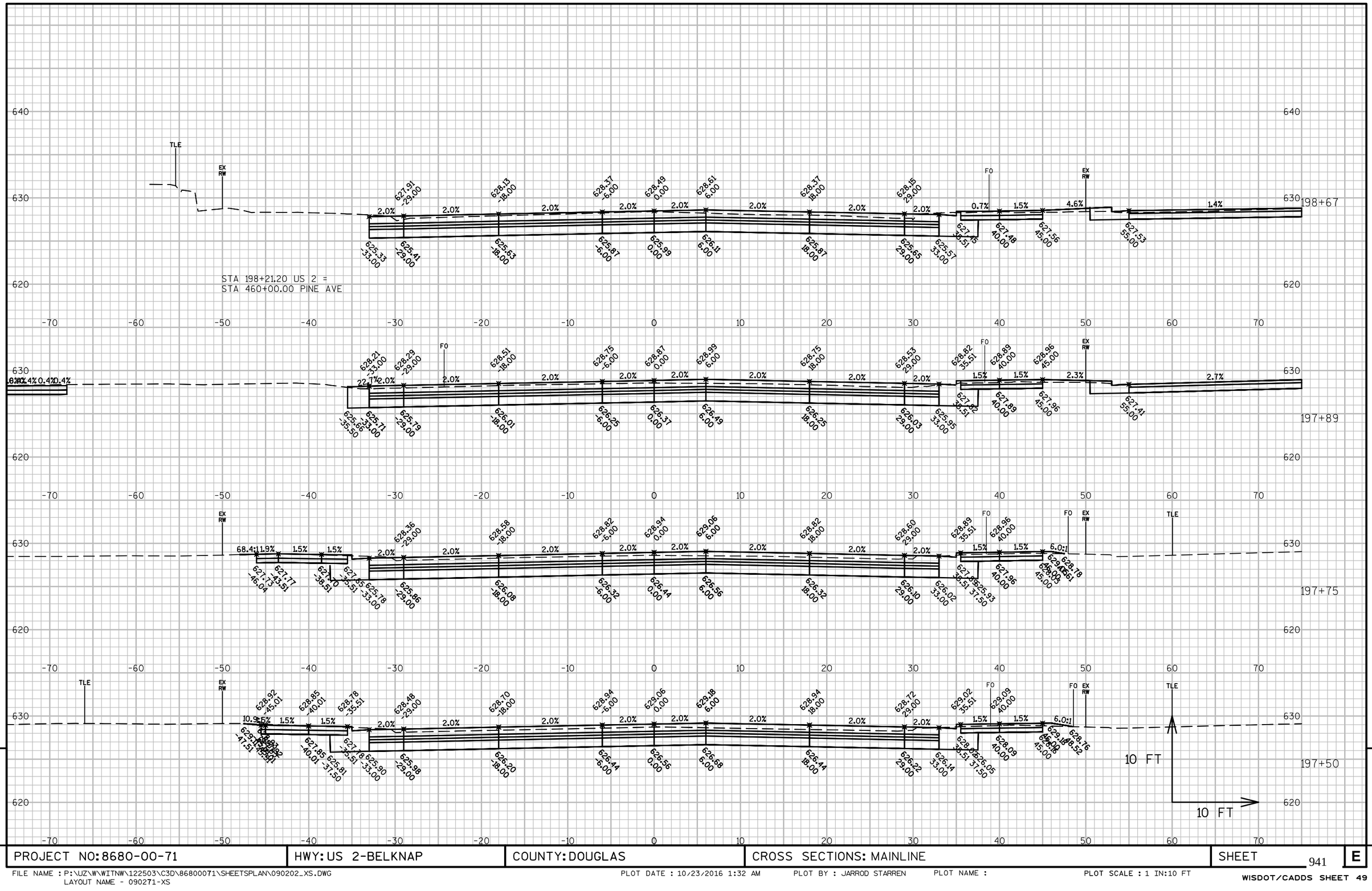
9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 940	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090270-XS

PLOT DATE : 10/23/2016 1:31 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

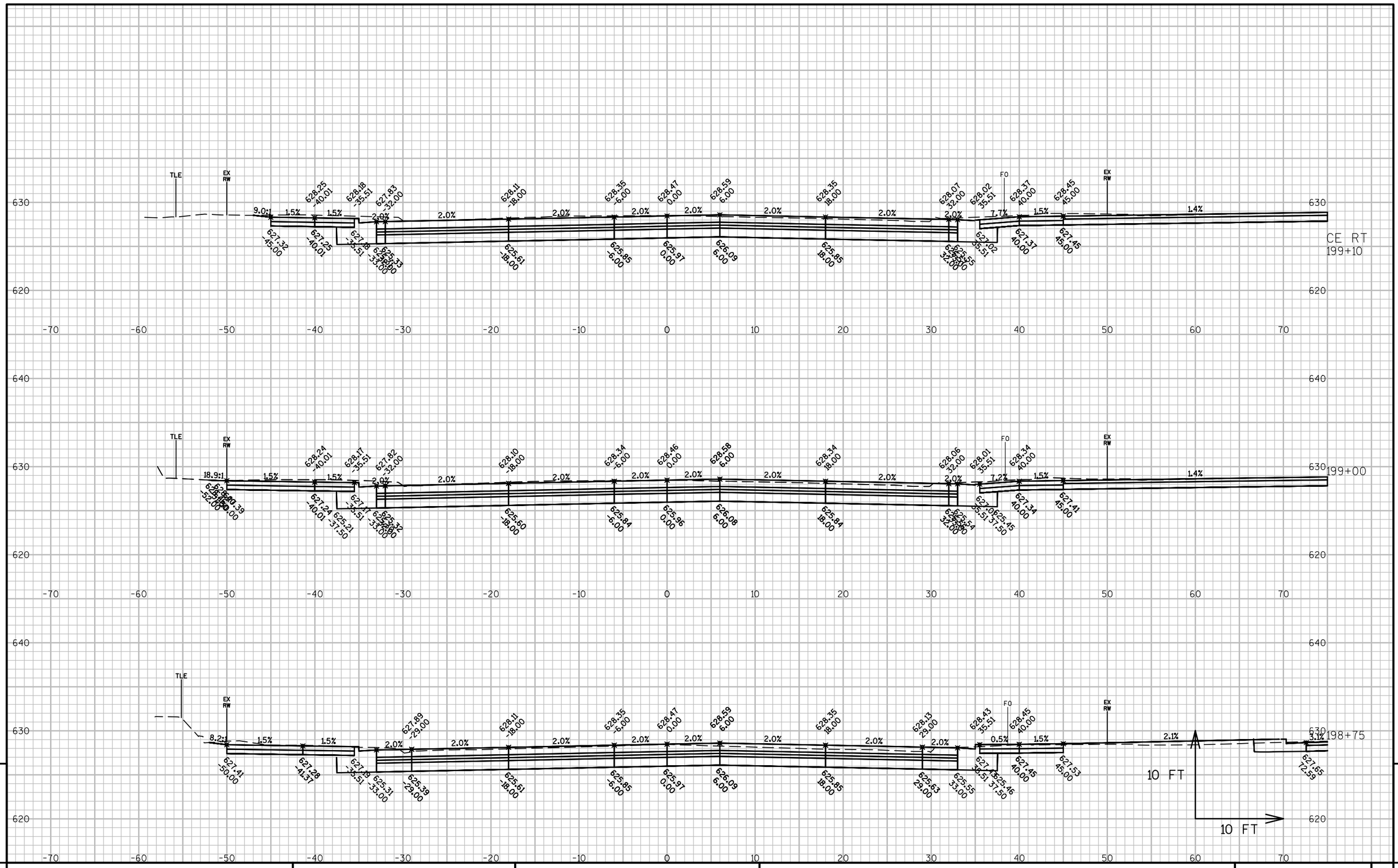


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 941	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090271-XS

PLOT DATE : 10/23/2016 1:32 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

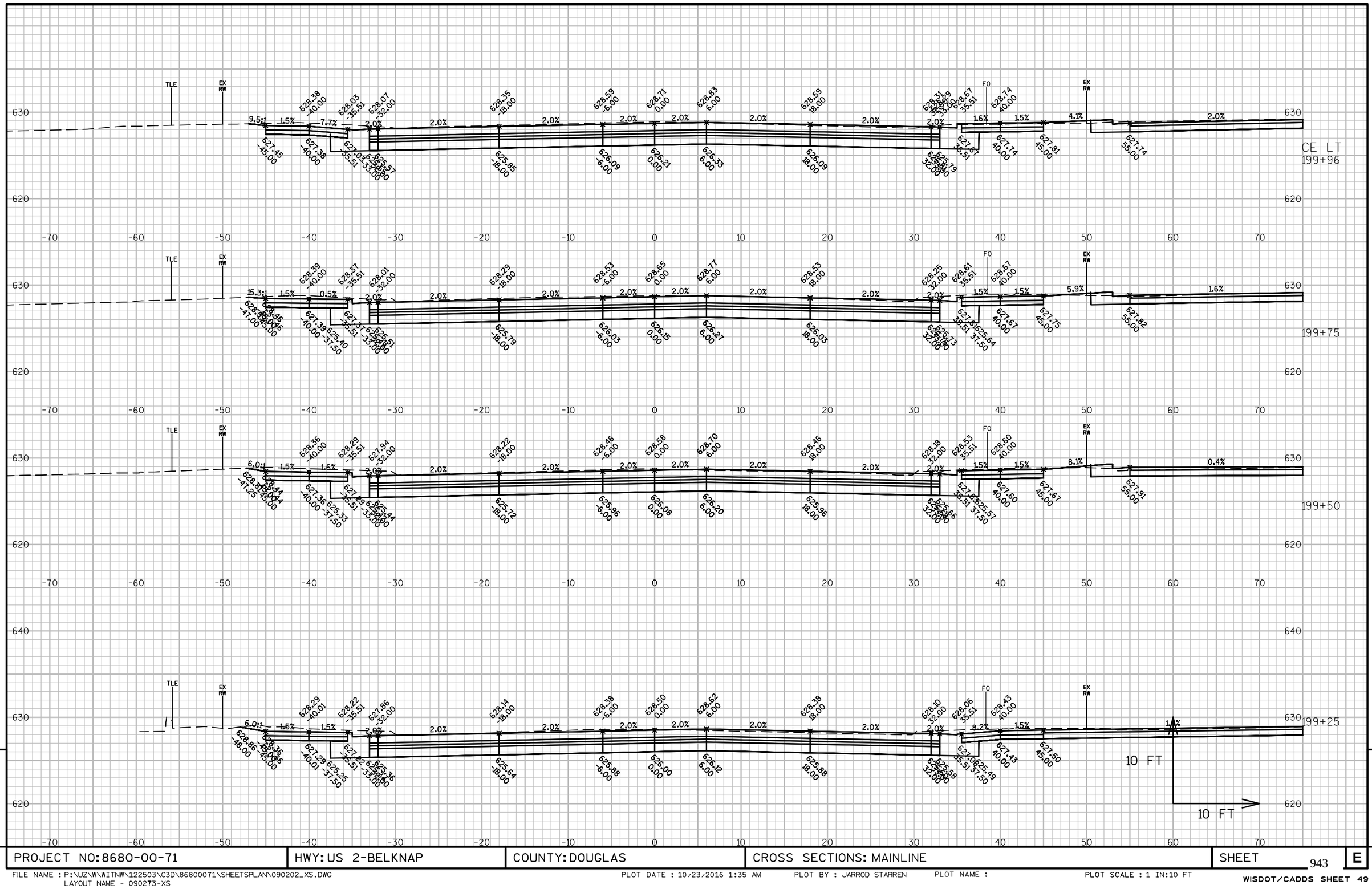
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 942	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090272-XS

PLOT DATE : 10/23/2016 1:34 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

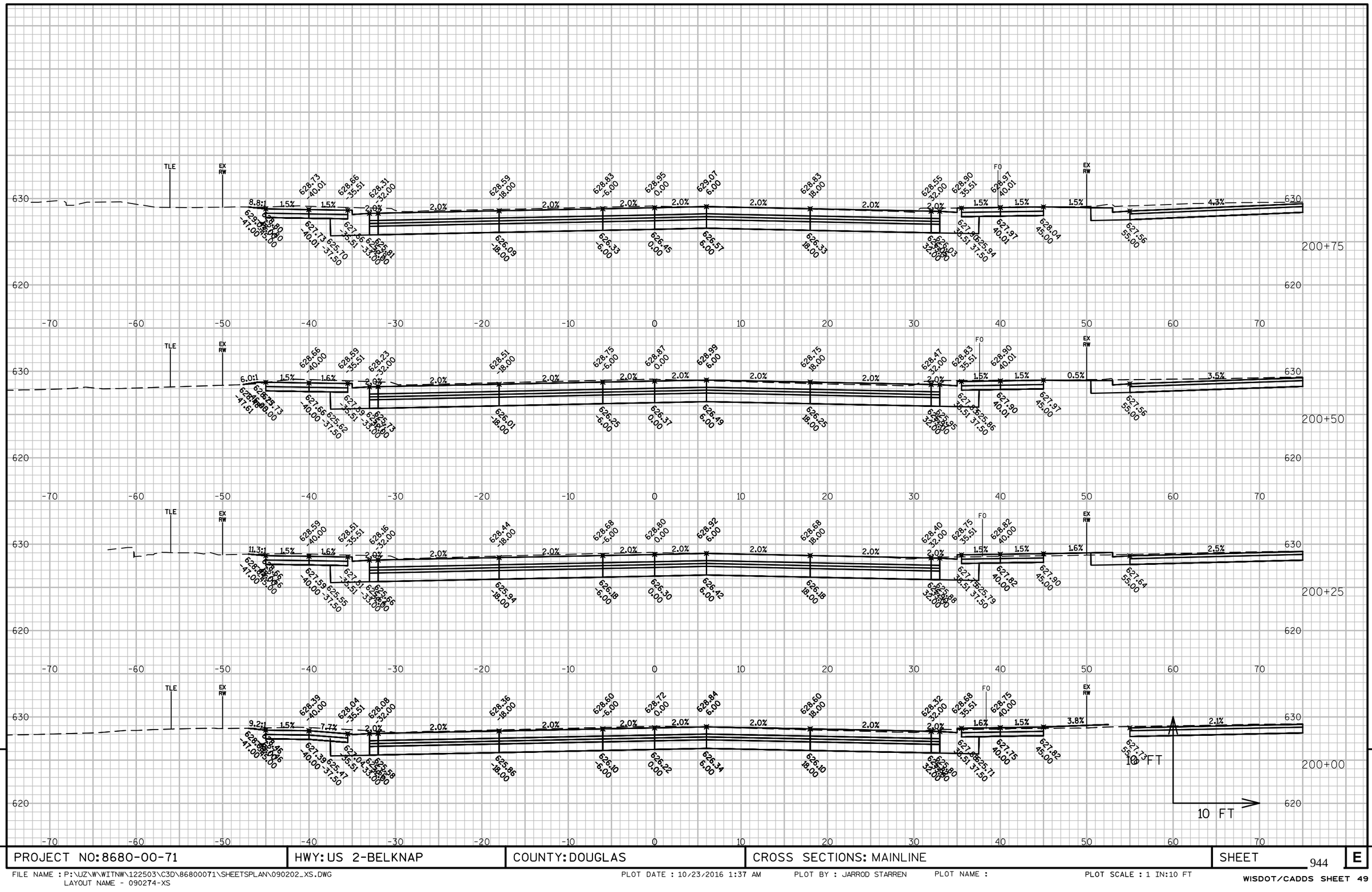
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 943	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090273-XS

PLOT DATE : 10/23/2016 1:35 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



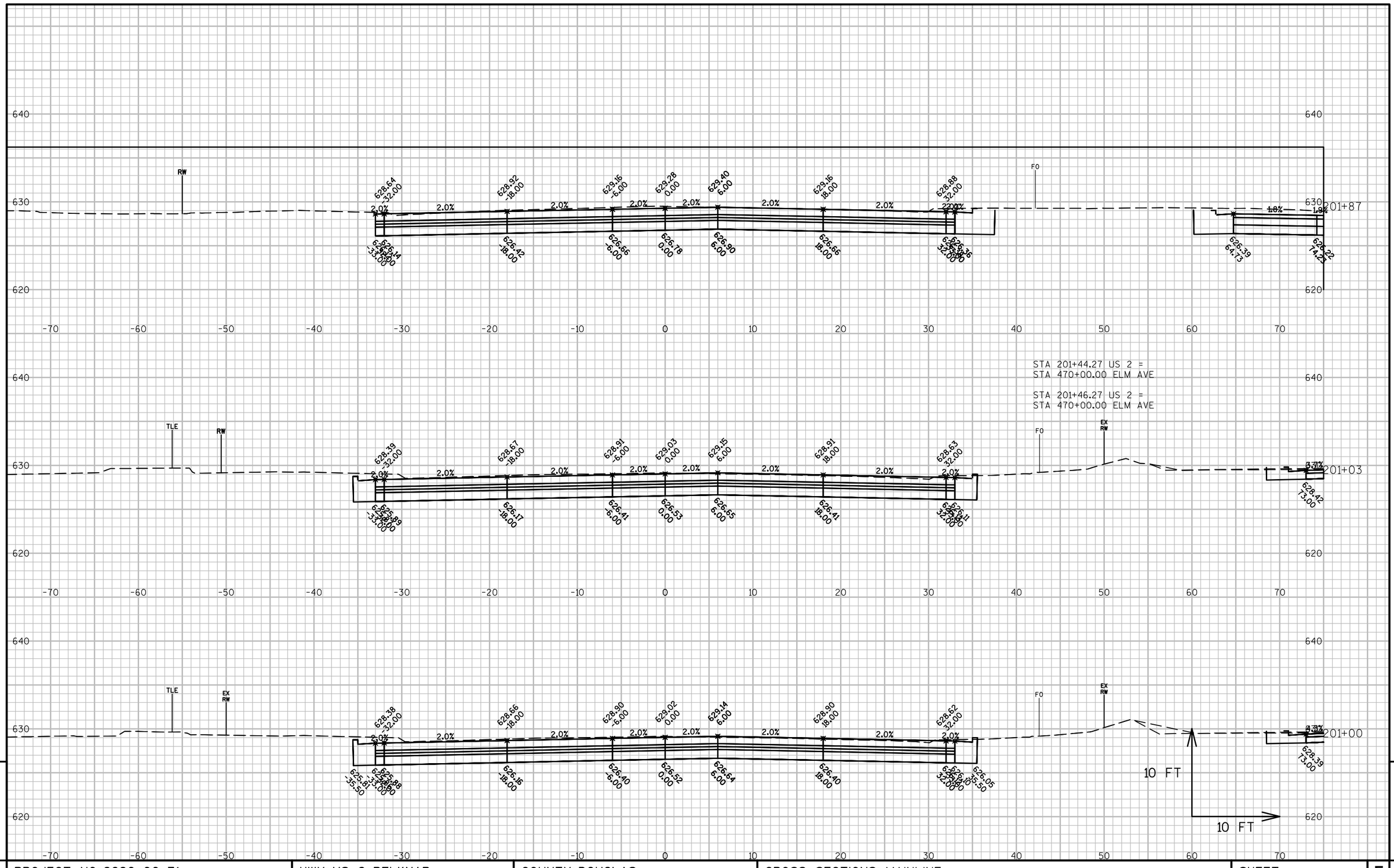
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 944	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090274-XS

PLOT DATE : 10/23/2016 1:37 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

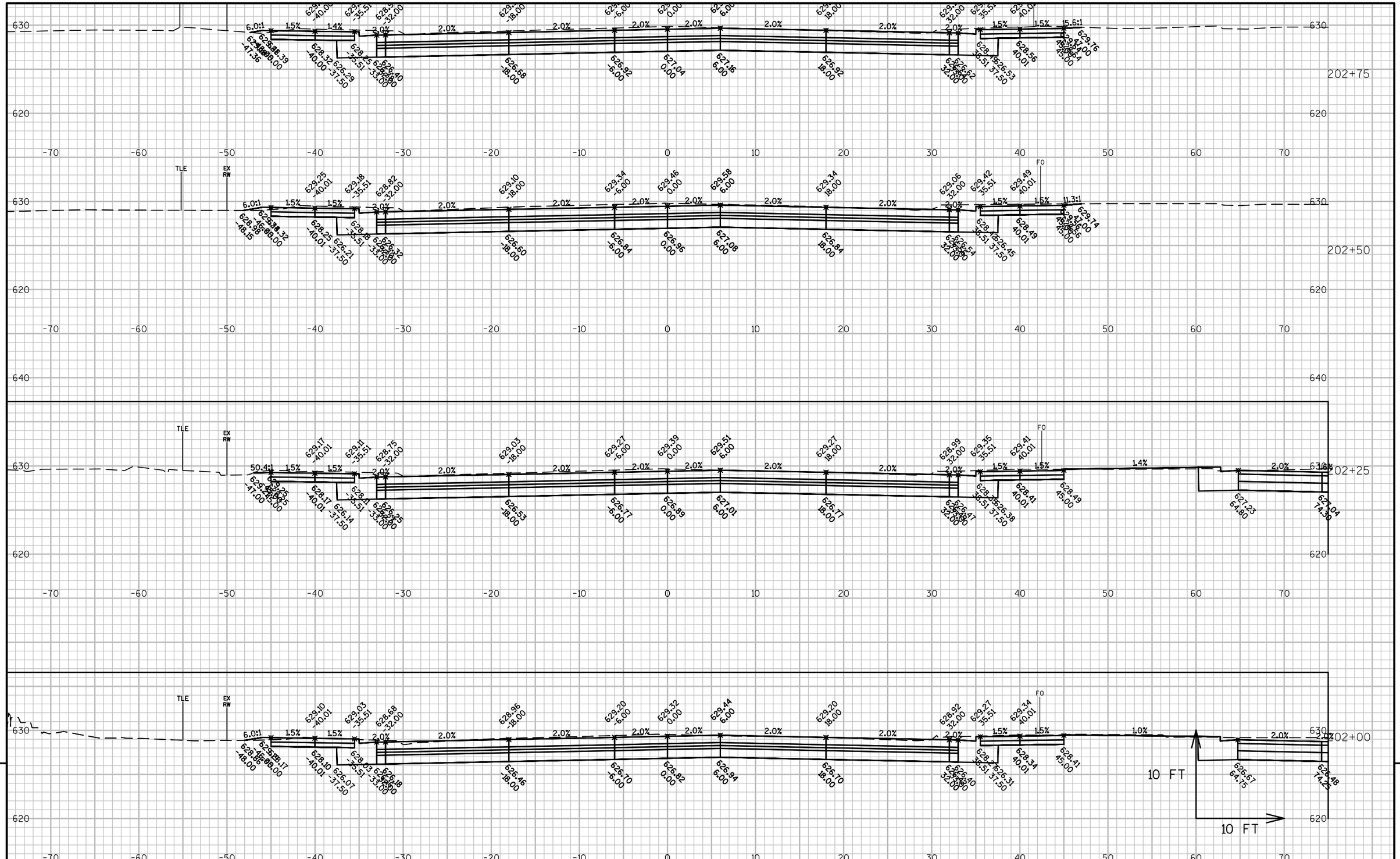


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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 945	E

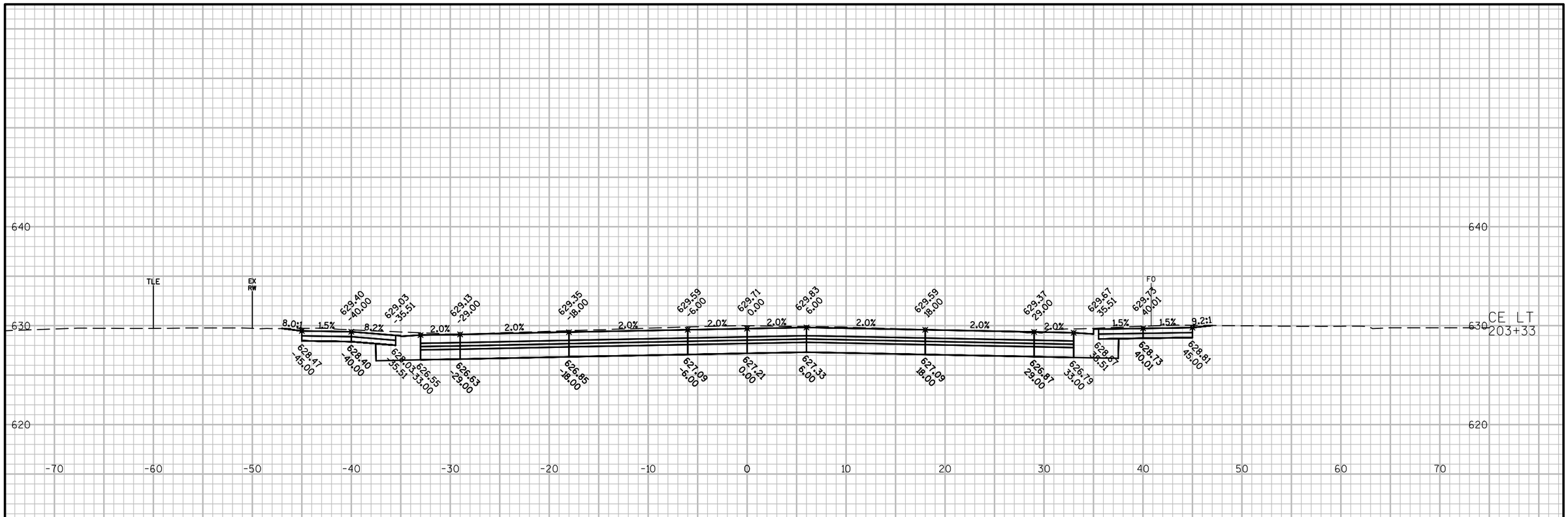
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090275-XS
PLOT DATE : 10/23/2016 1:38 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 946	E

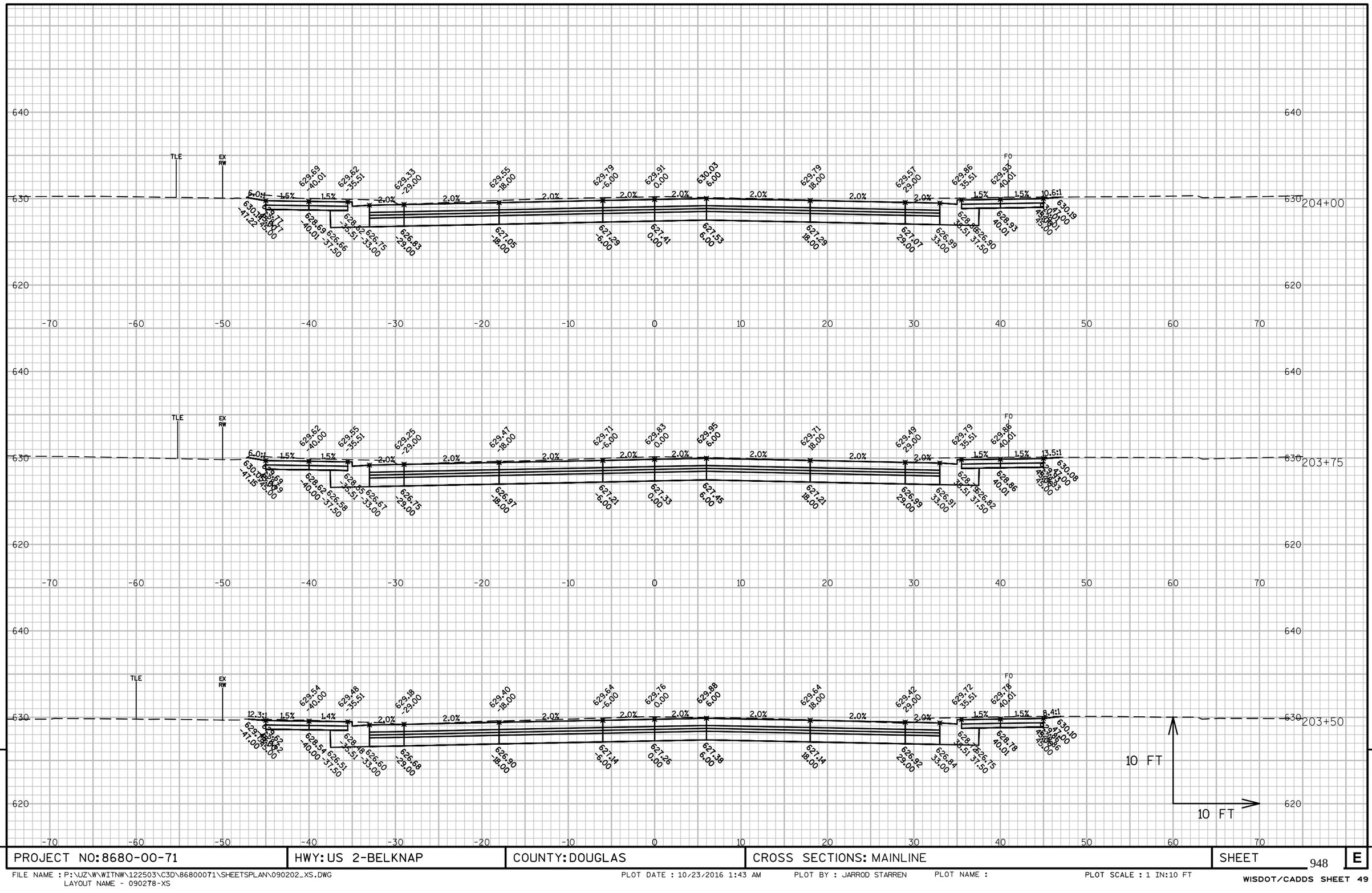


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 947	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090277-XS

PLOT DATE : 10/23/2016 1:41 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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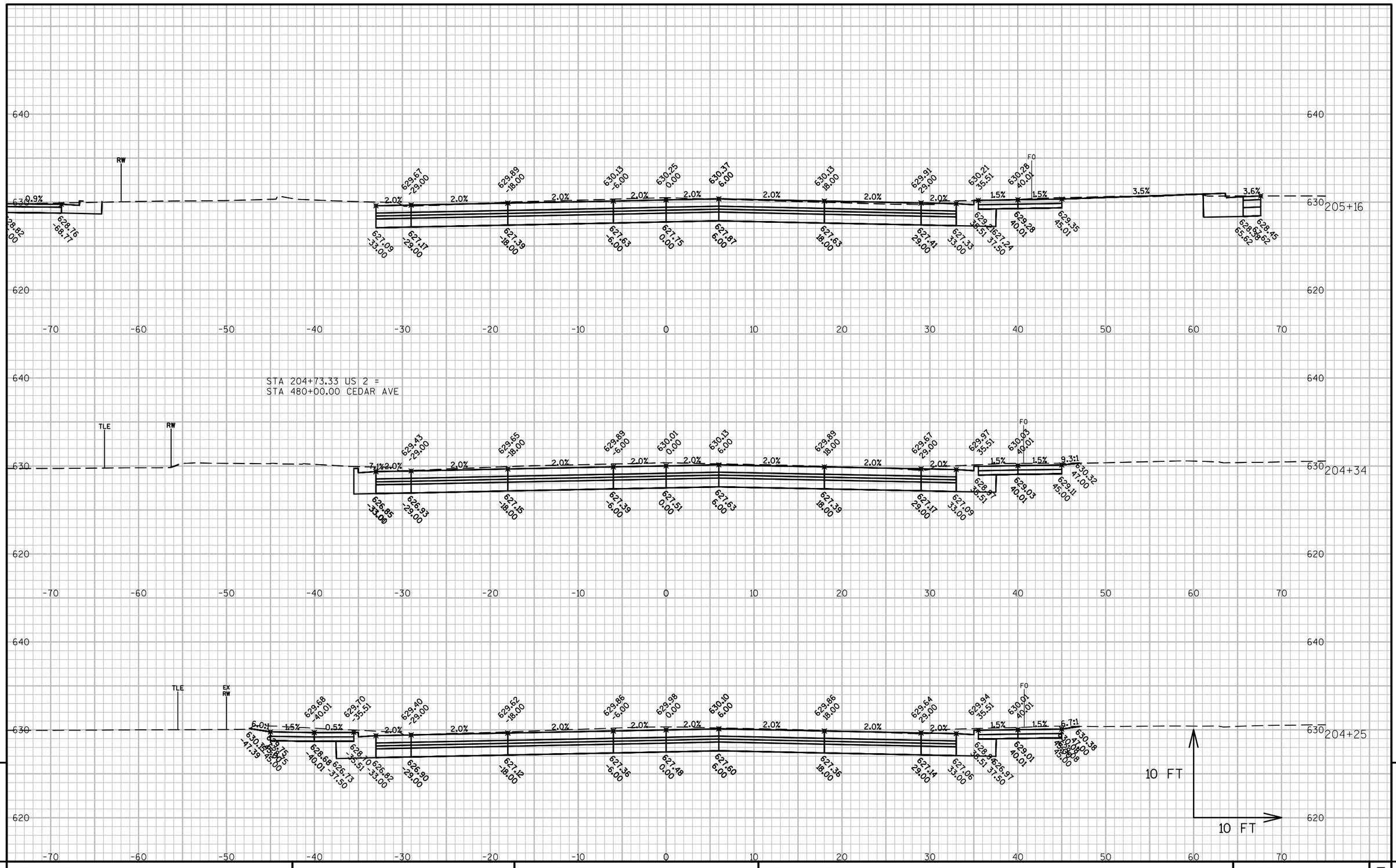
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 948	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090278-XS

PLOT DATE : 10/23/2016 1:43 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 204+73.33 US 2 =
STA 480+00.00 CEDAR AVE

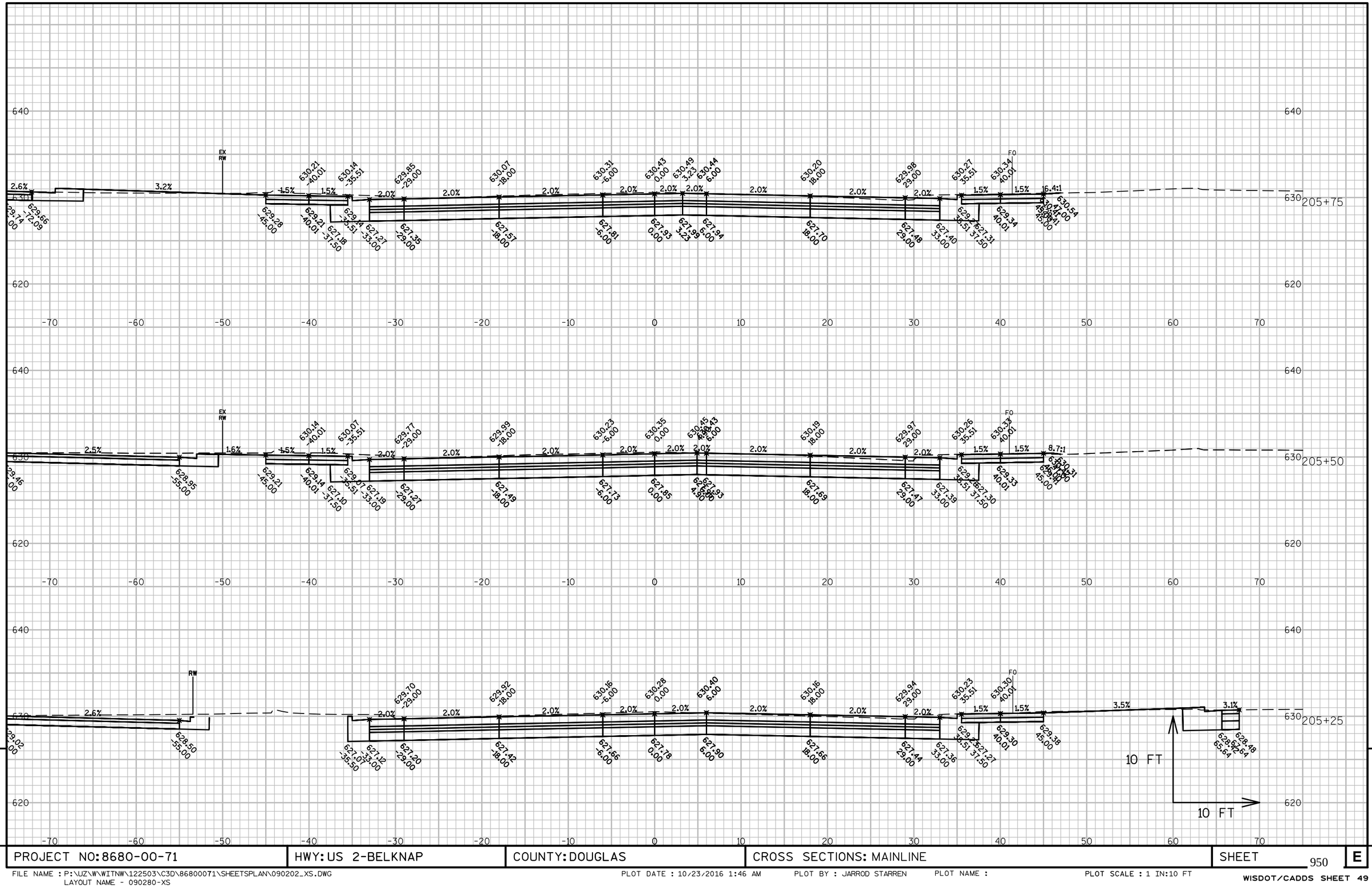


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 949	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090279-XS

PLOT DATE : 10/23/2016 1:44 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

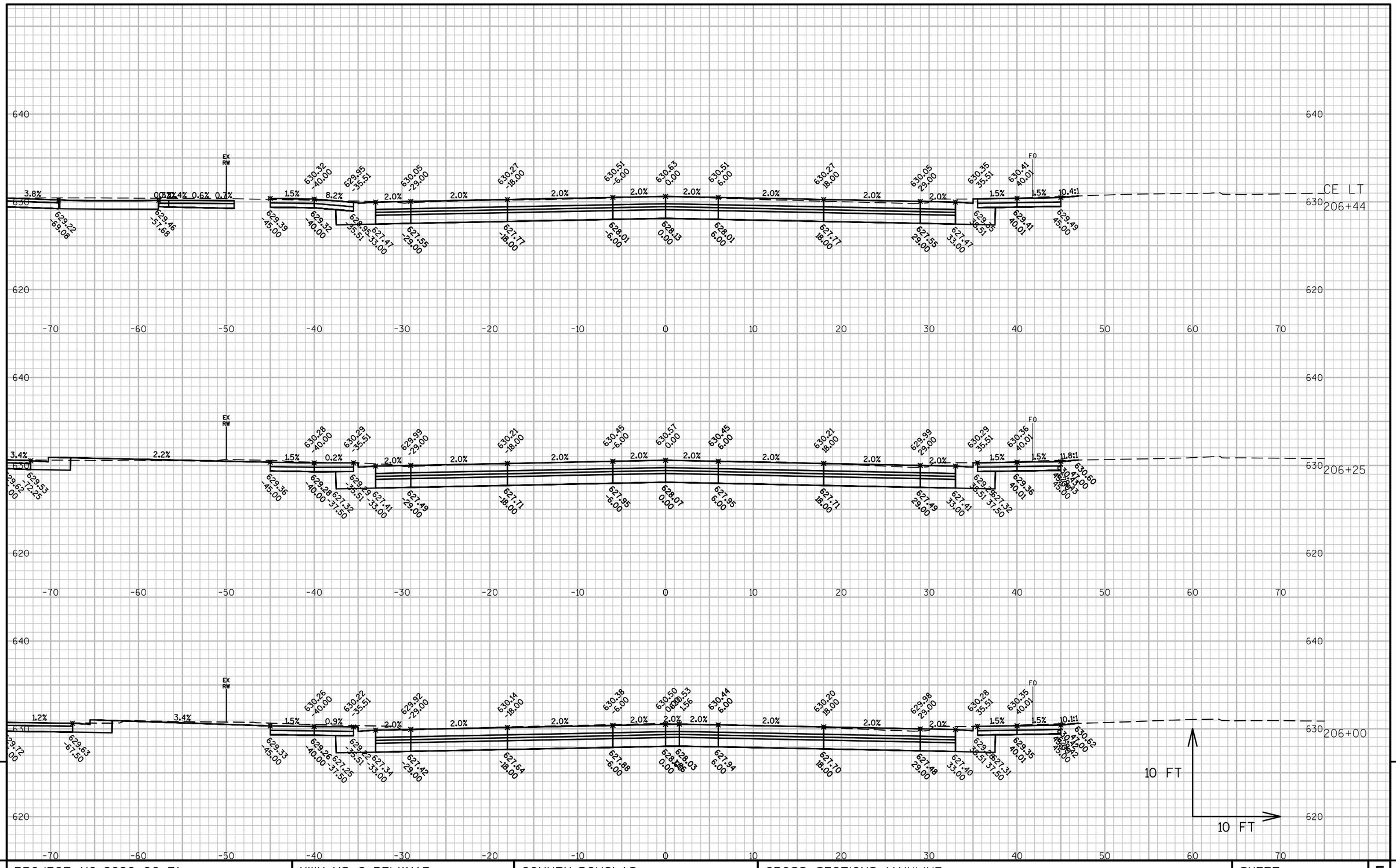


PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 950	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090280-XS

PLOT DATE : 10/23/2016 1:46 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

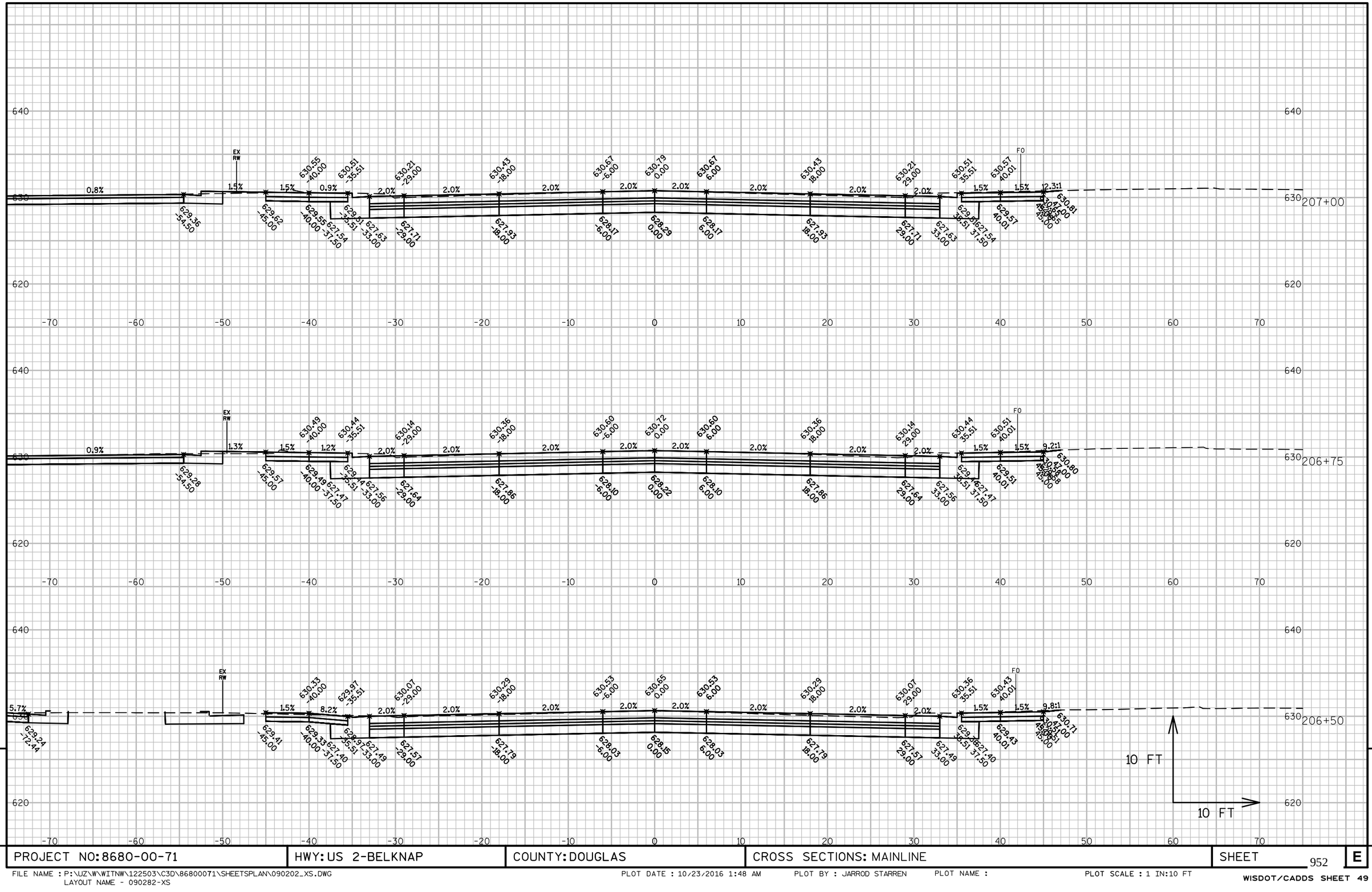
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 951	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090281-XS

PLOT DATE : 10/23/2016 1:47 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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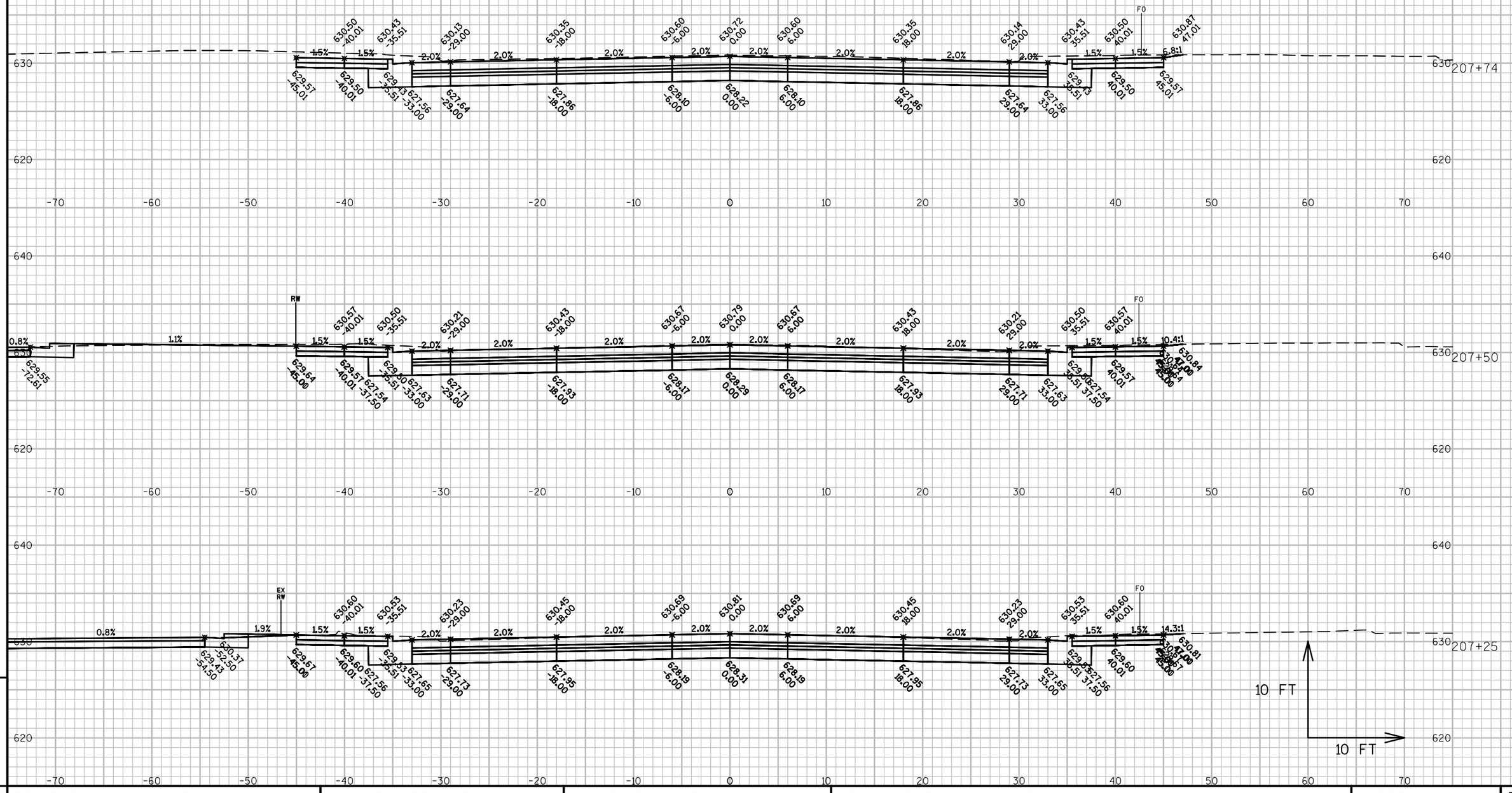
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 952	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090282-XS

PLOT DATE : 10/23/2016 1:48 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 208+34.26 US 2 =
STA 500+00.00 HILL AVE



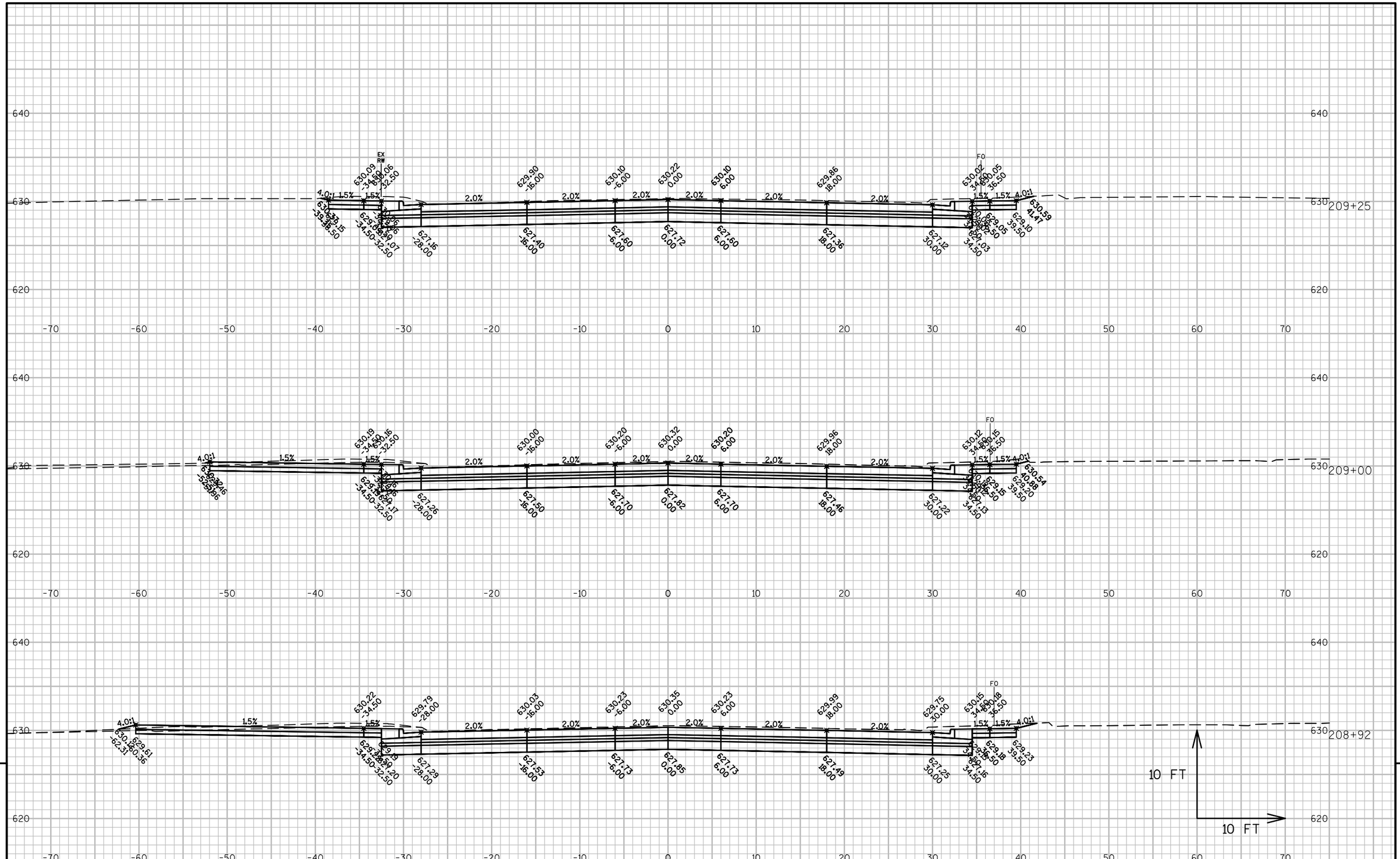
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PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 953	E

9

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090283-XS

PLOT DATE : 10/23/2016 1:50 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

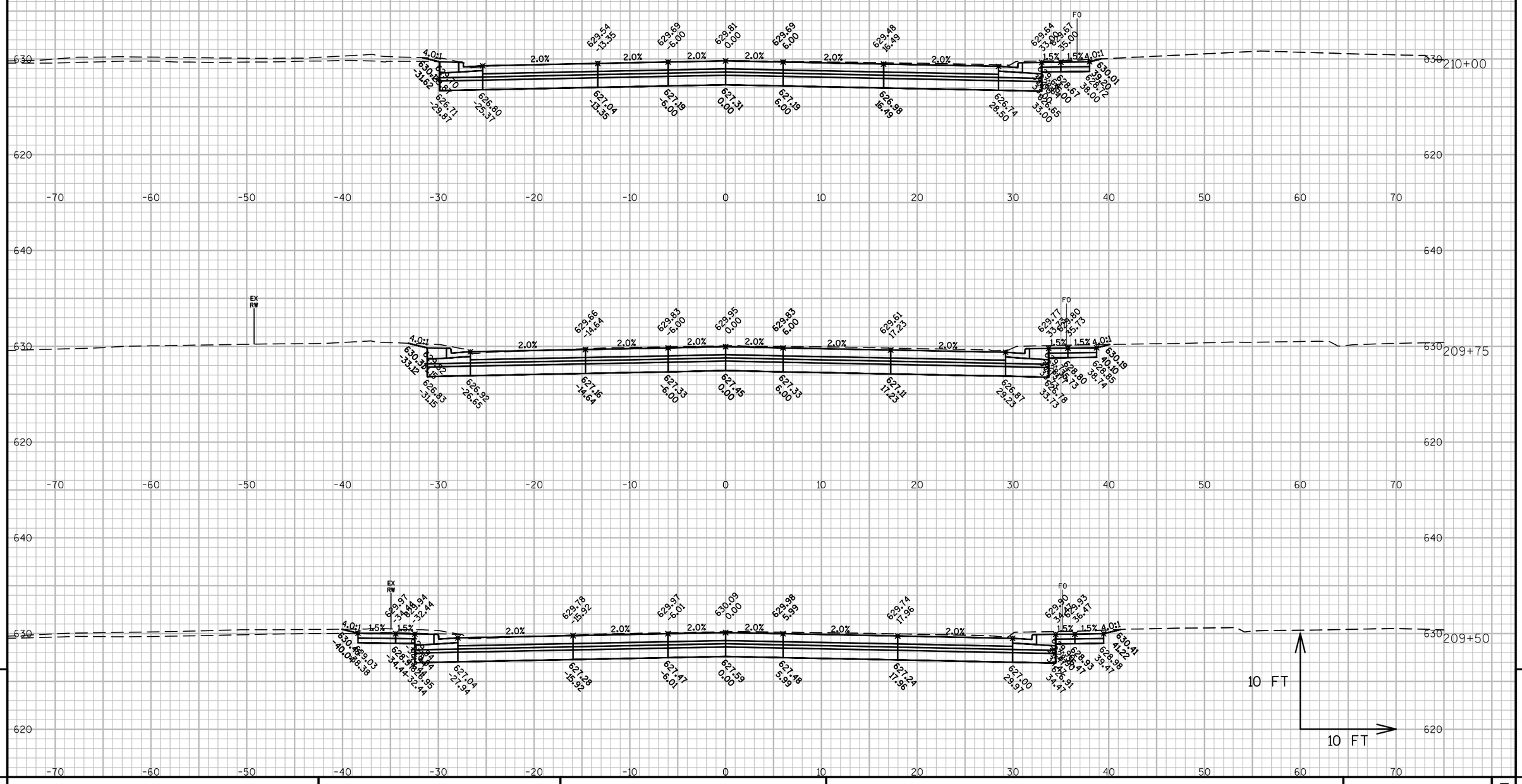
PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 954	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090284-XS

PLOT DATE : 10/23/2016 1:52 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

END PROJECT
STA 210+18.00



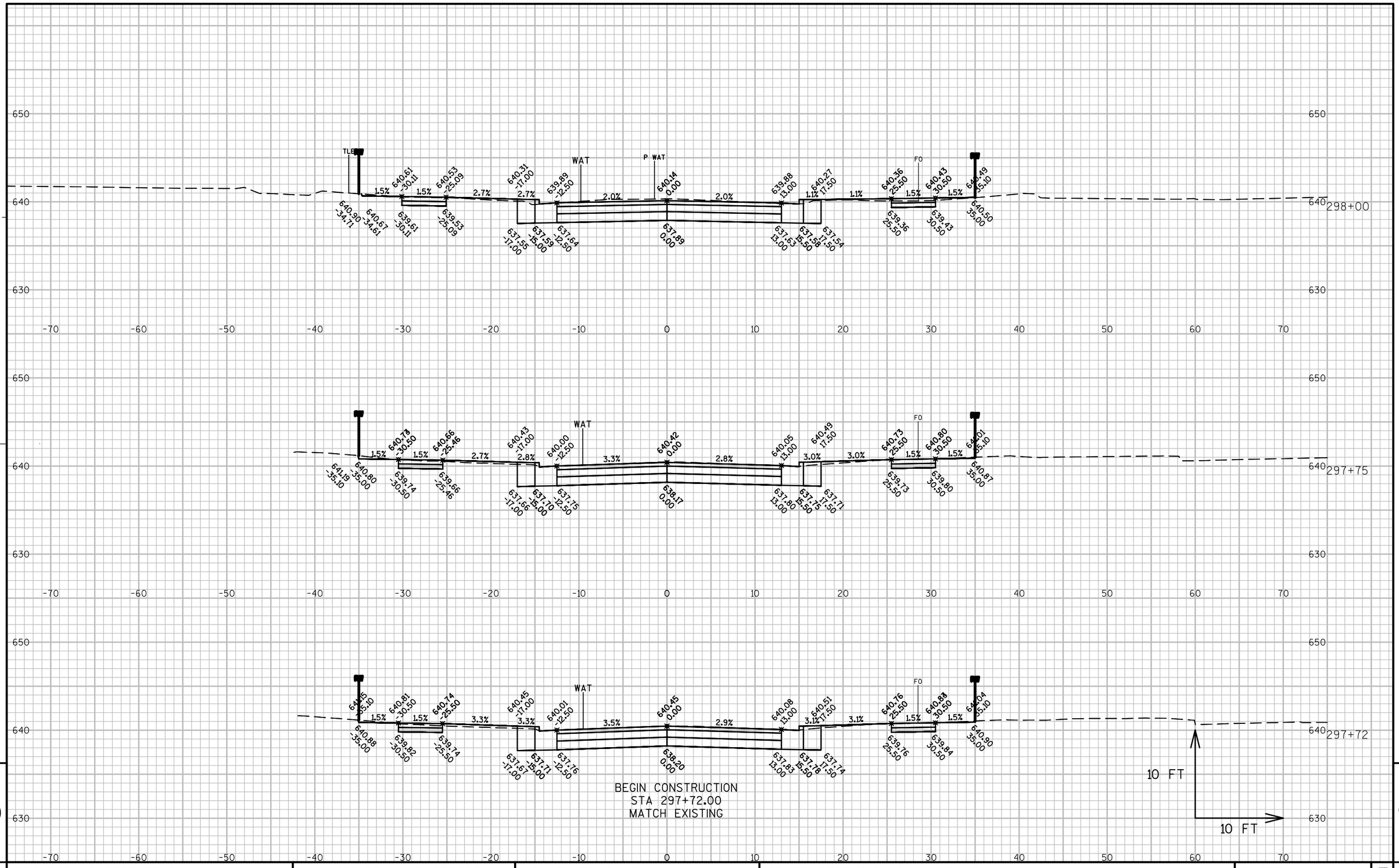
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9

PROJECT NO: 8680-00-71	HWY: US 2-BELKNAP	COUNTY: DOUGLAS	CROSS SECTIONS: MAINLINE	SHEET 955	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090285-XS

PLOT DATE : 10/23/2016 1:53 AM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

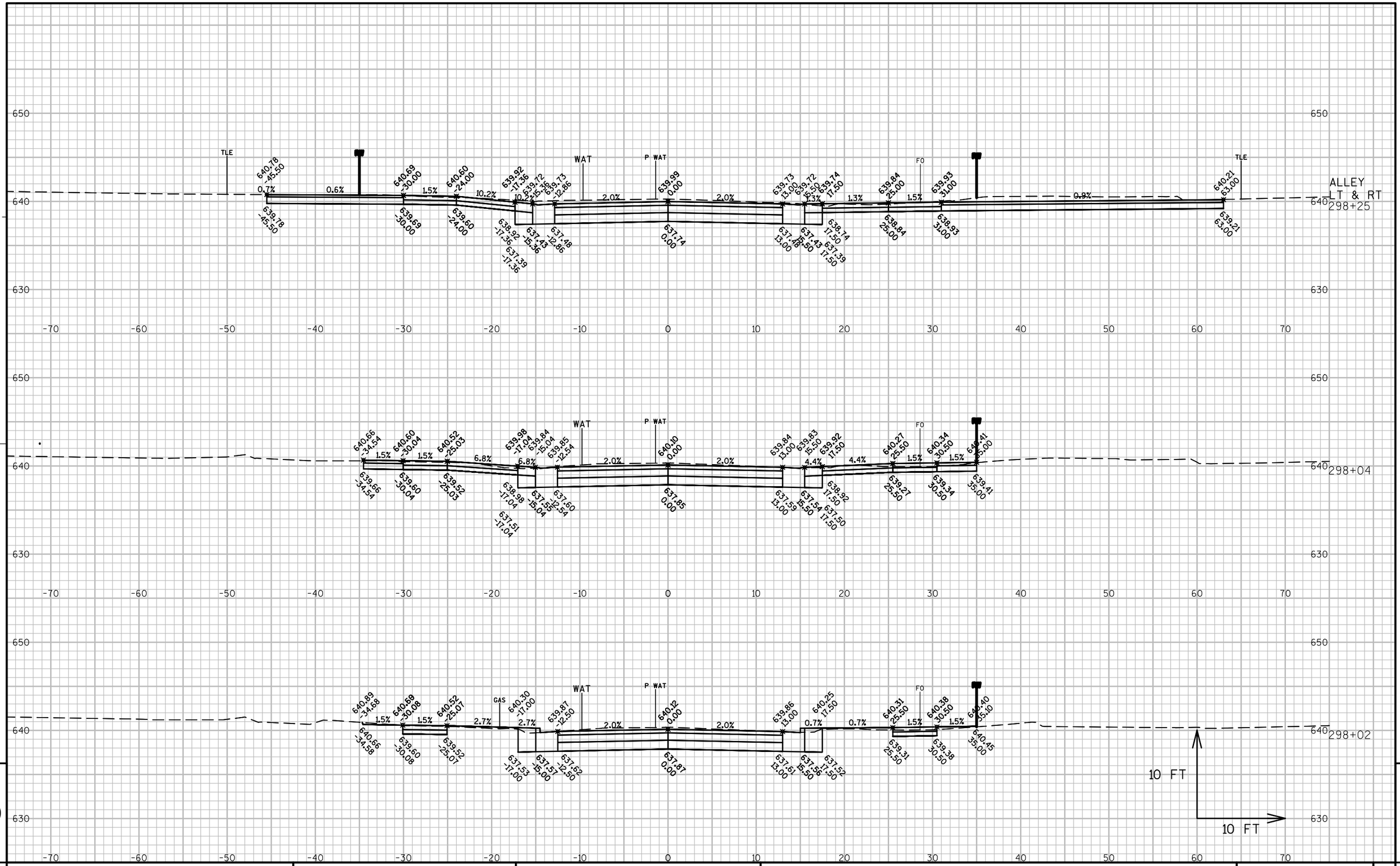


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 956	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - JOHN XS1

PLOT DATE : 10/17/2016 3:58 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 957	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - JOHN XS2

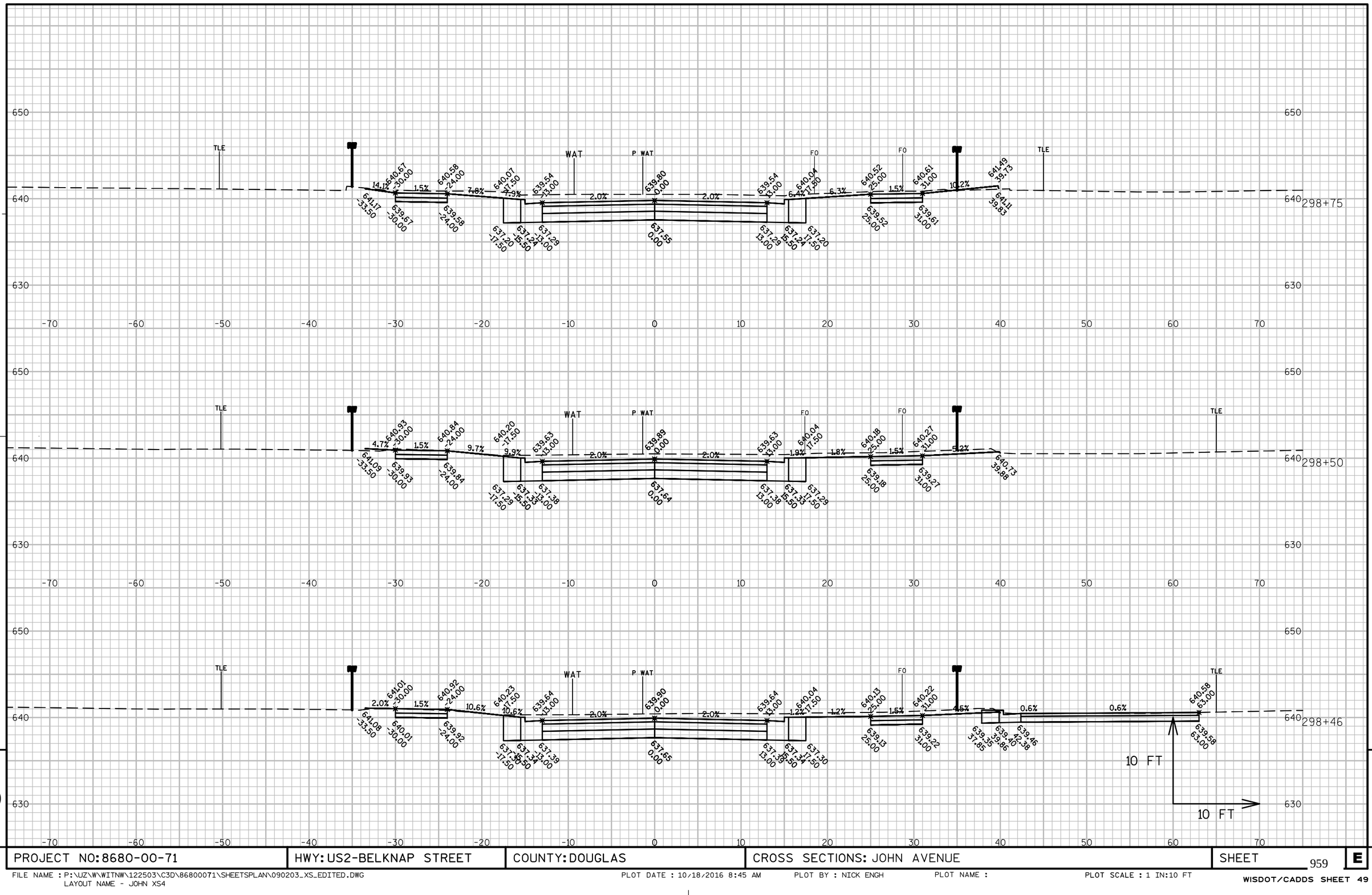
PLOT DATE : 10/17/2016 3:59 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 958	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - JOHN XS3

PLOT DATE : 10/18/2016 8:33 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

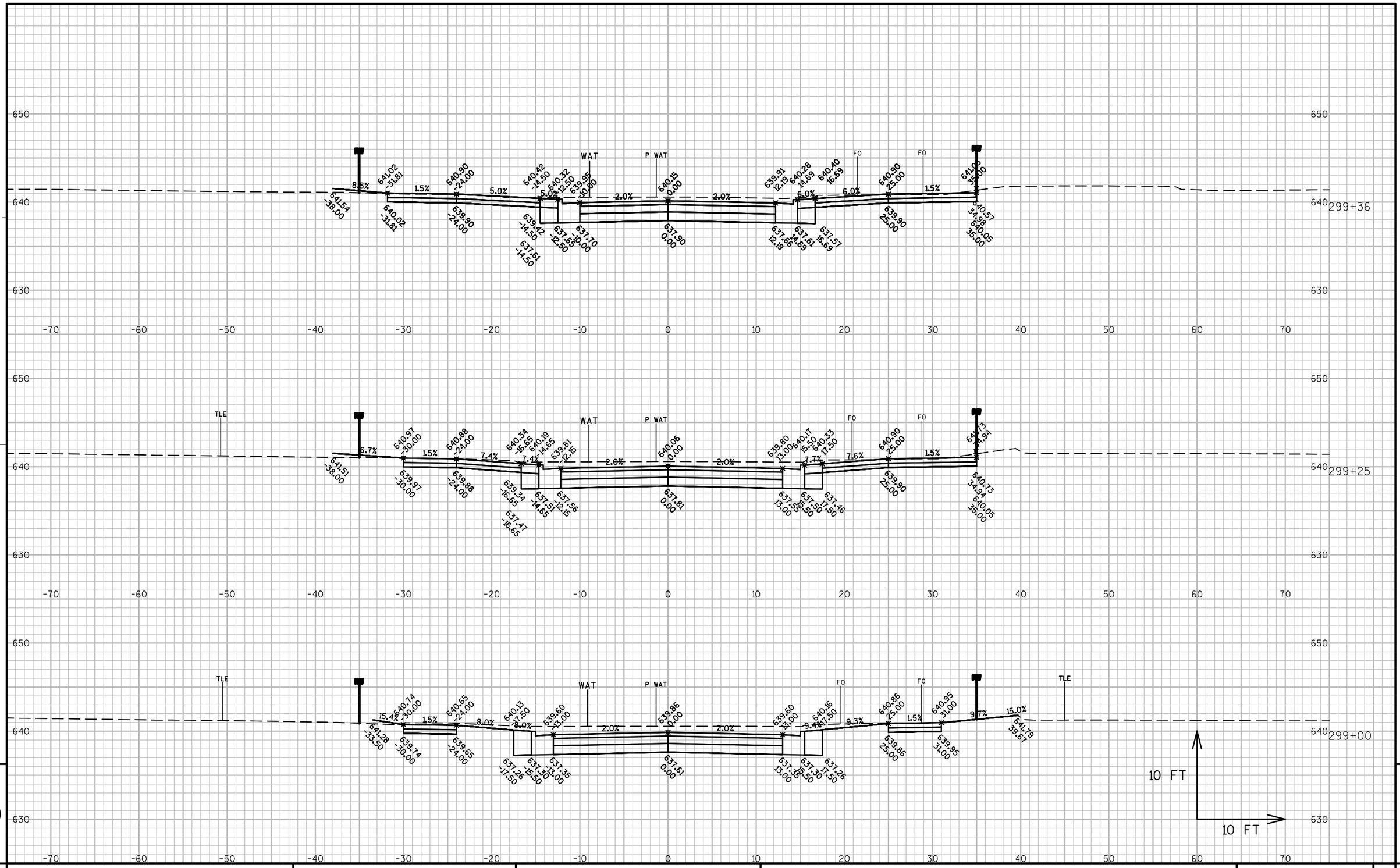


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 959	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - JOHN XS4

PLOT DATE : 10/18/2016 8:45 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

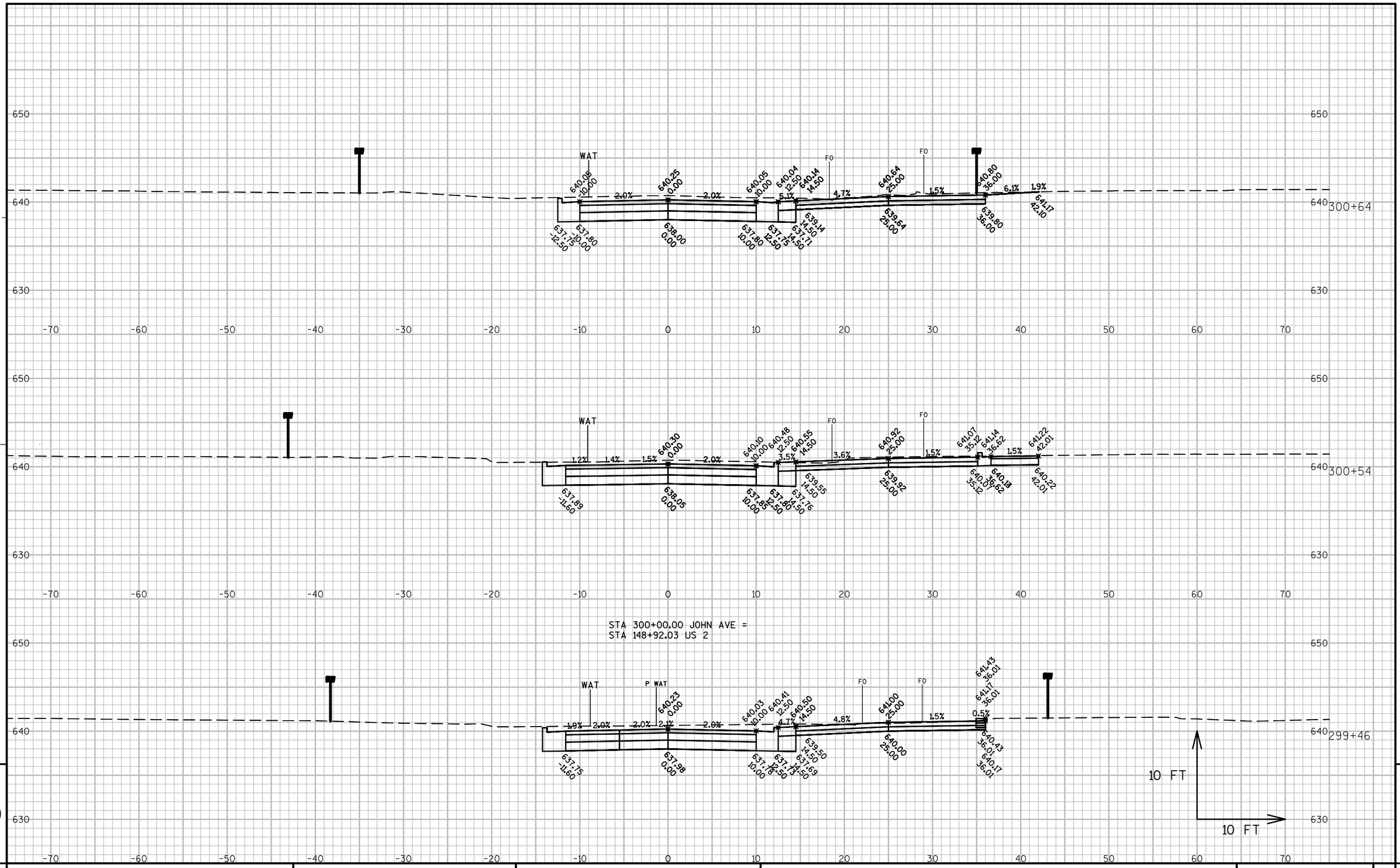


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 960	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - JOHN XS5

PLOT DATE : 10/18/2016 10:04 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

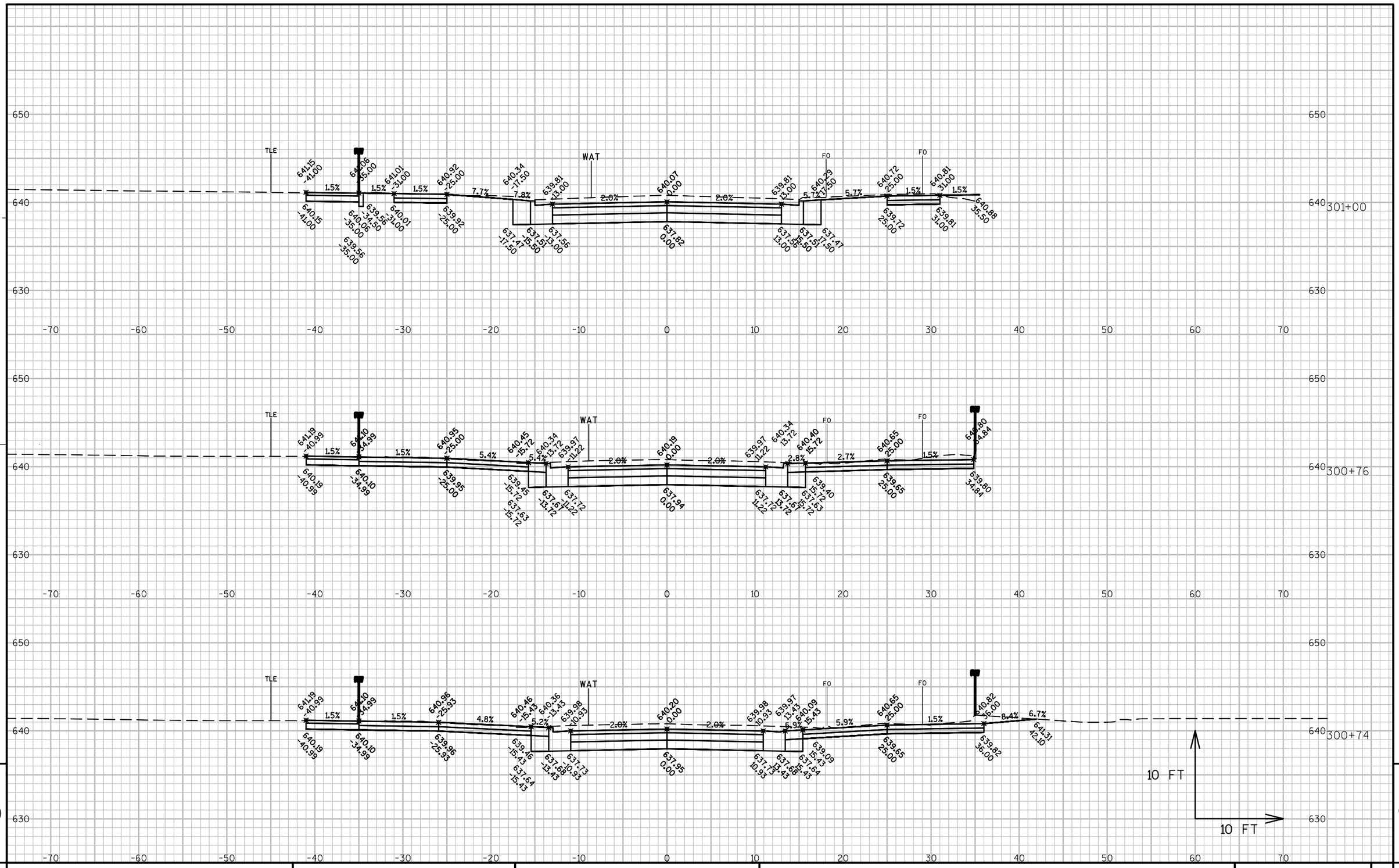
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 961	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - JOHN XS6

PLOT DATE : 10/18/2016 11:00 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



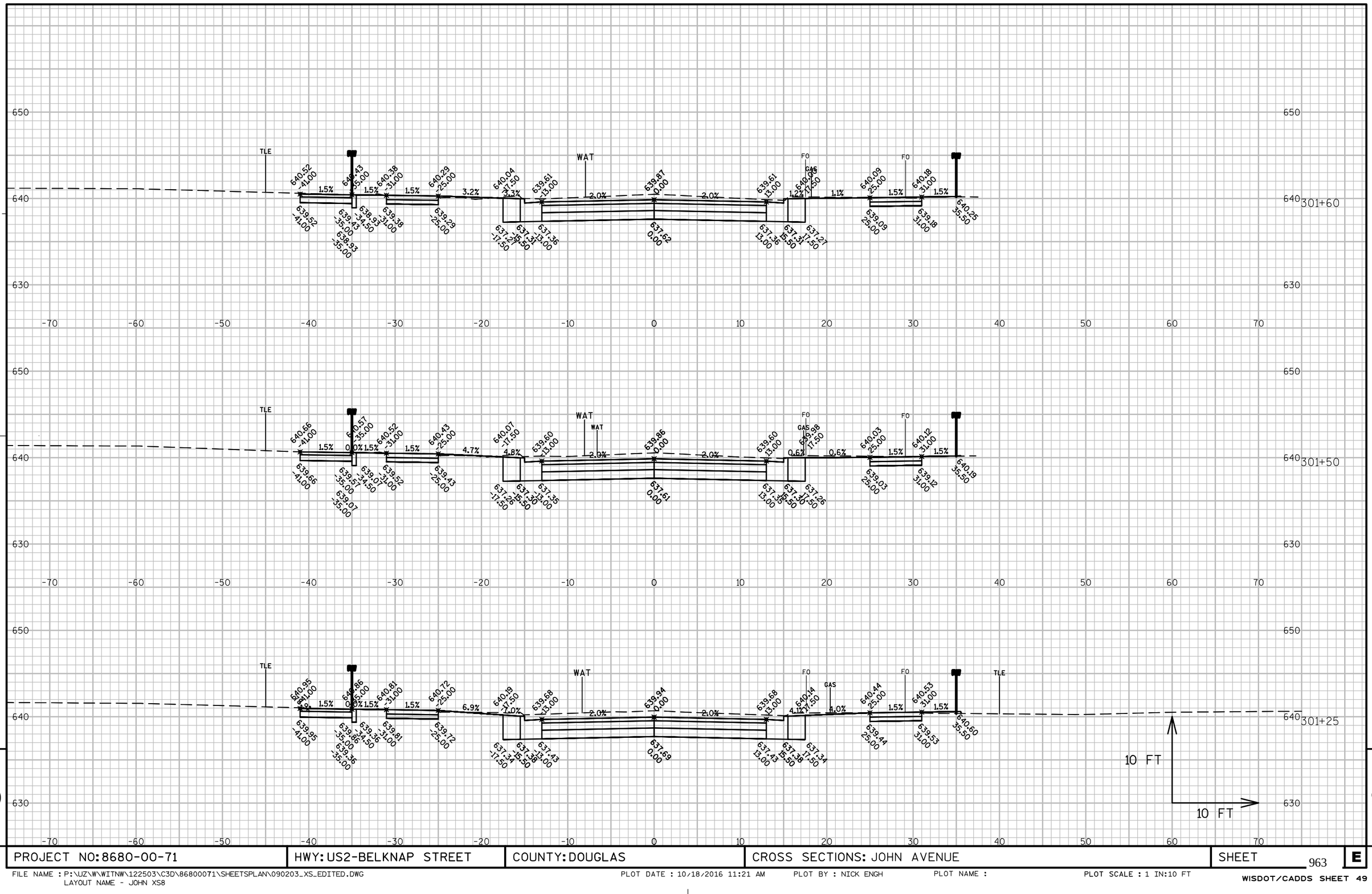
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 962	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - JOHN XS7

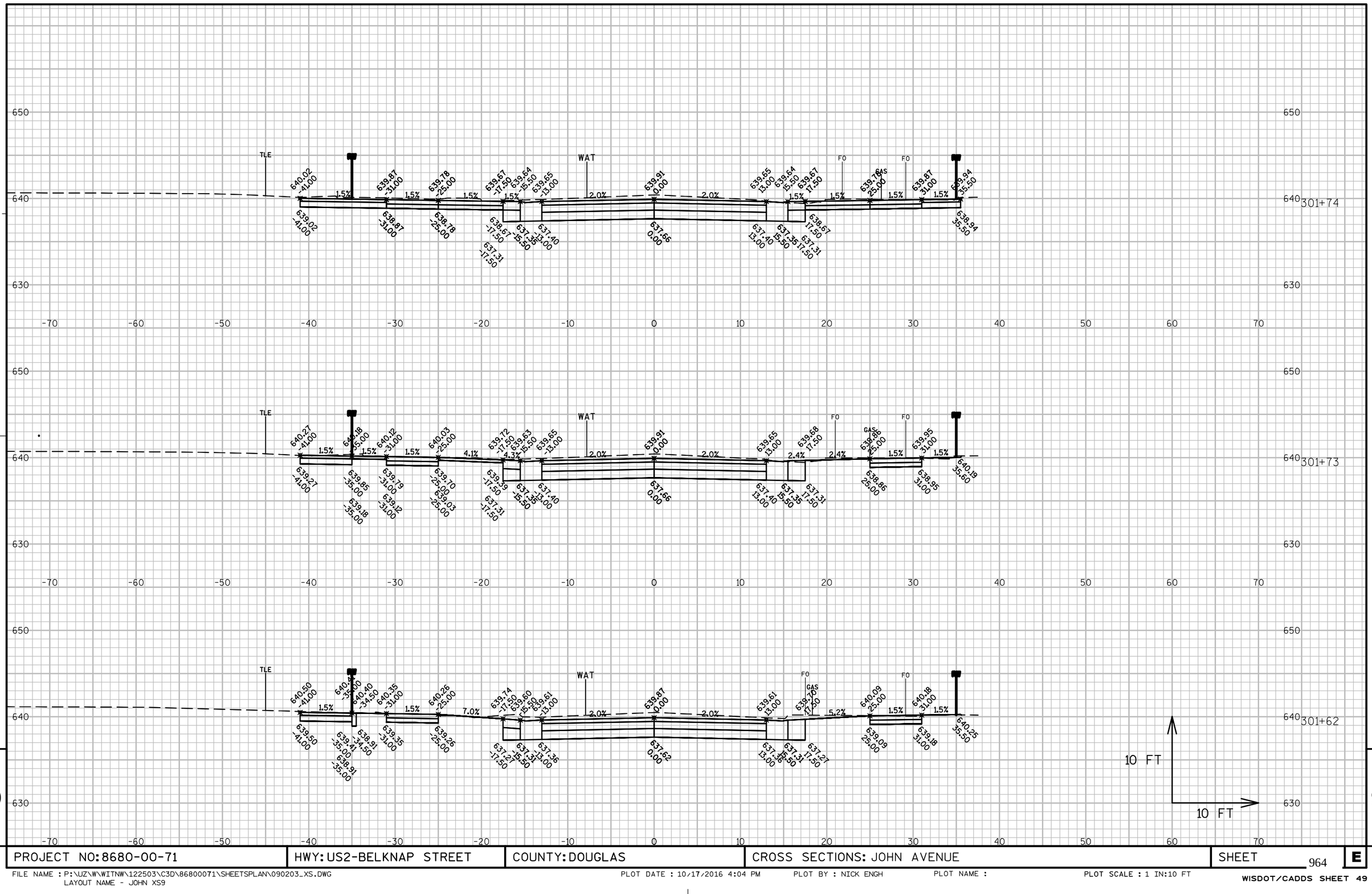
PLOT DATE : 10/18/2016 11:10 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 963	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - JOHN XS8

PLOT DATE : 10/18/2016 11:21 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

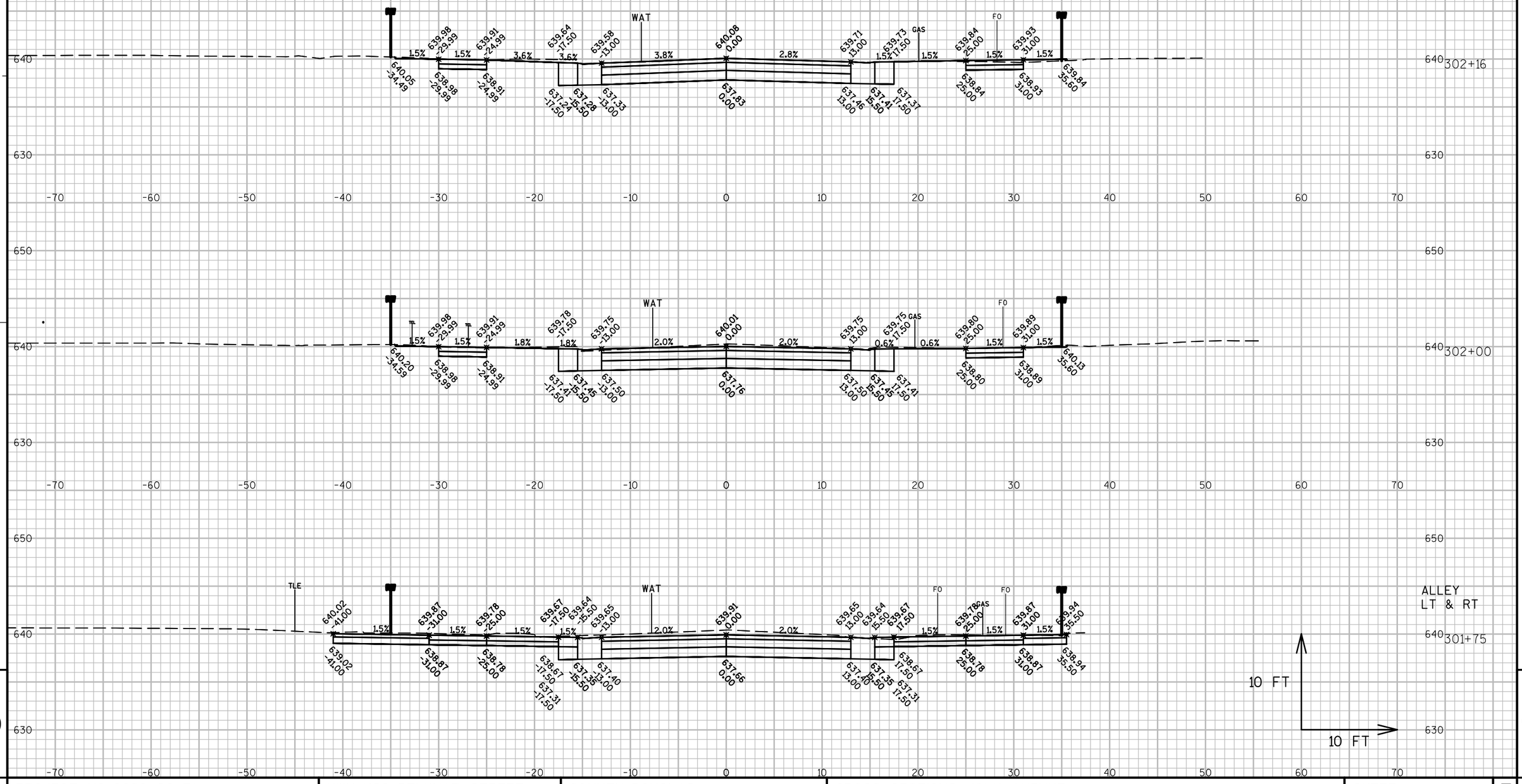


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 964	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - JOHN XS9

PLOT DATE : 10/17/2016 4:04 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

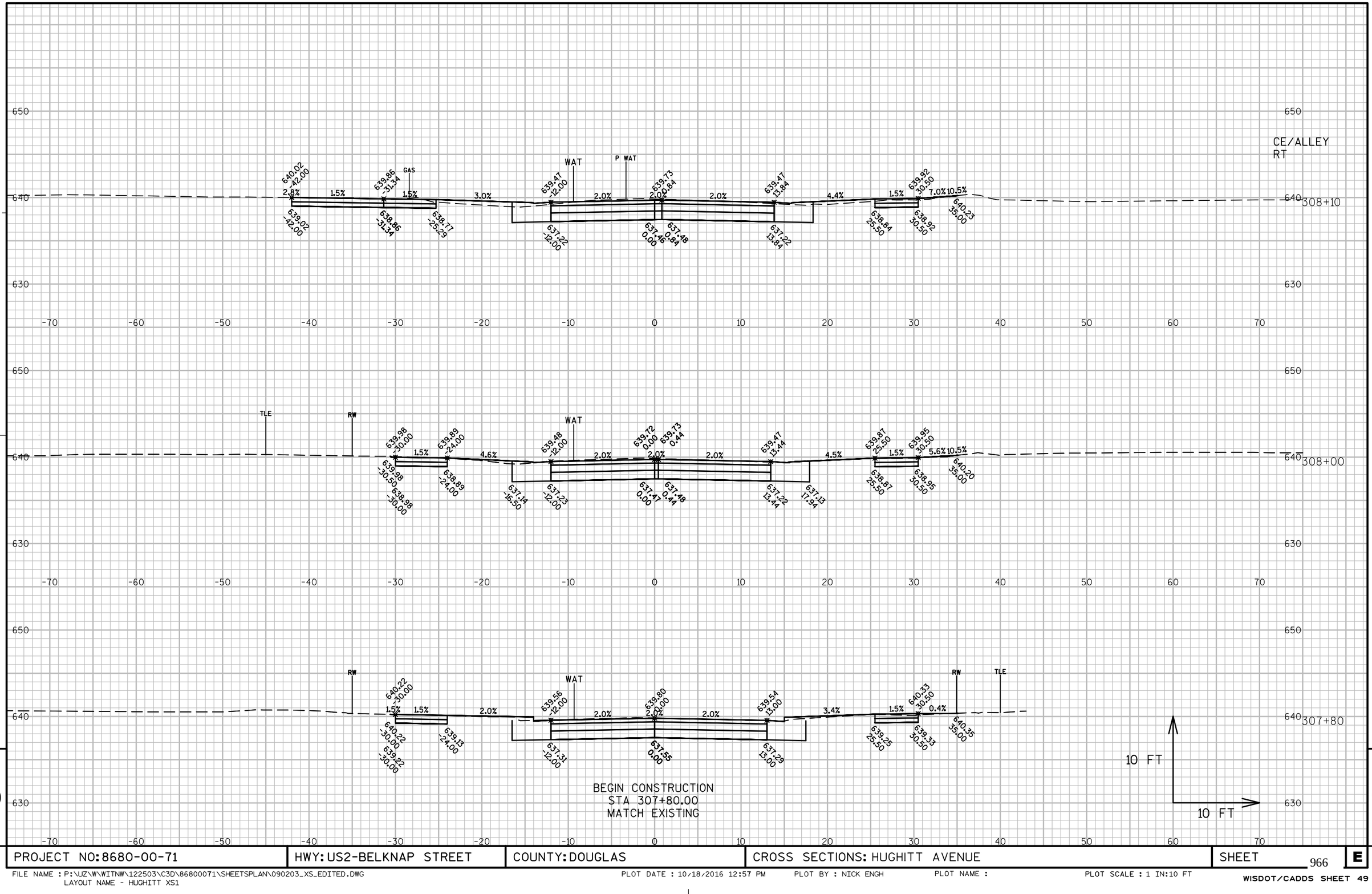
END CONSTRUCTION
STA 302+16.50
MATCH EXISTING



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: JOHN AVENUE	SHEET 965	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - JOHN XS10

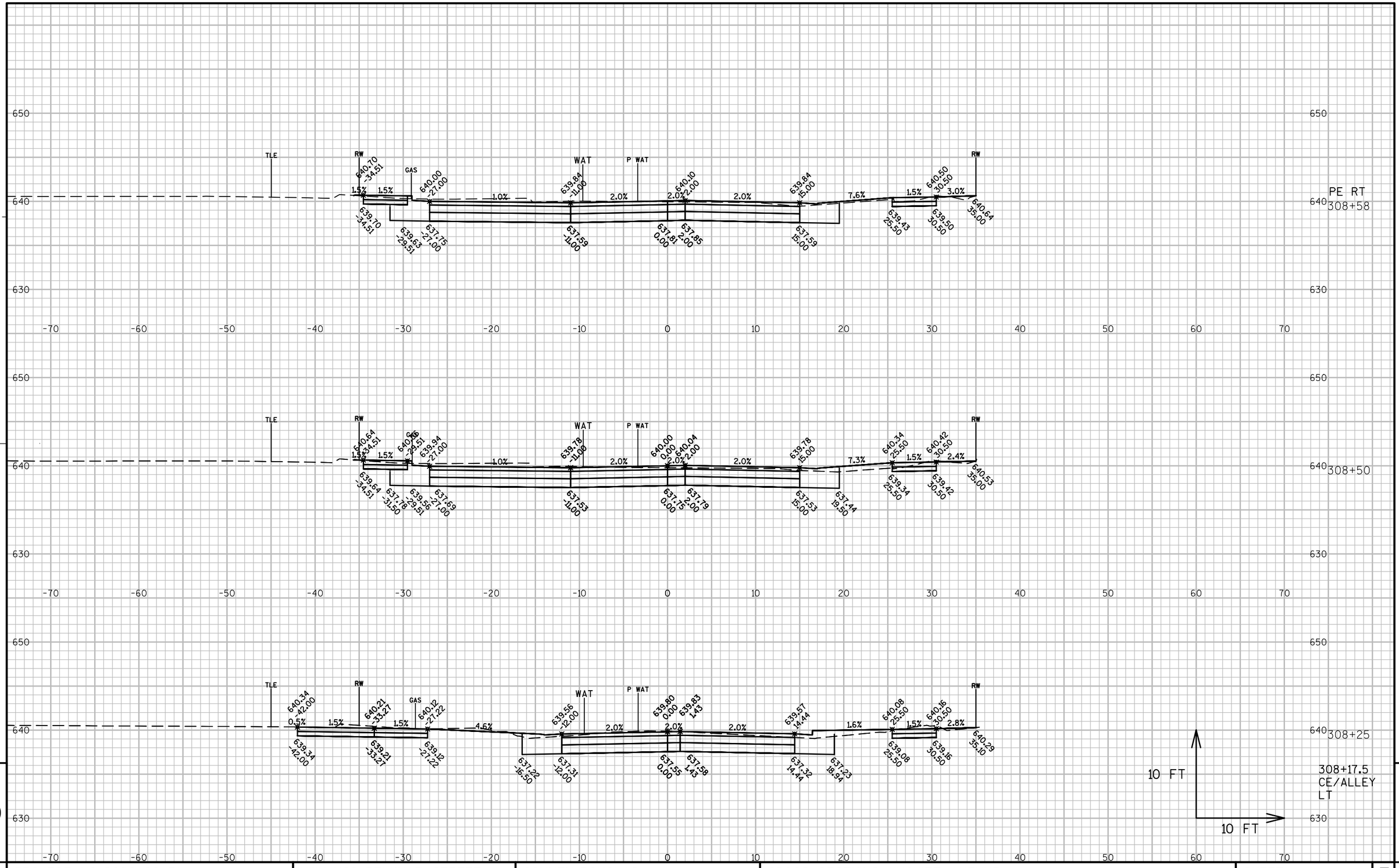
PLOT DATE : 10/17/2016 4:04 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HUGHITT AVENUE	SHEET 966	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HUGHITT XS1

PLOT DATE : 10/18/2016 12:57 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

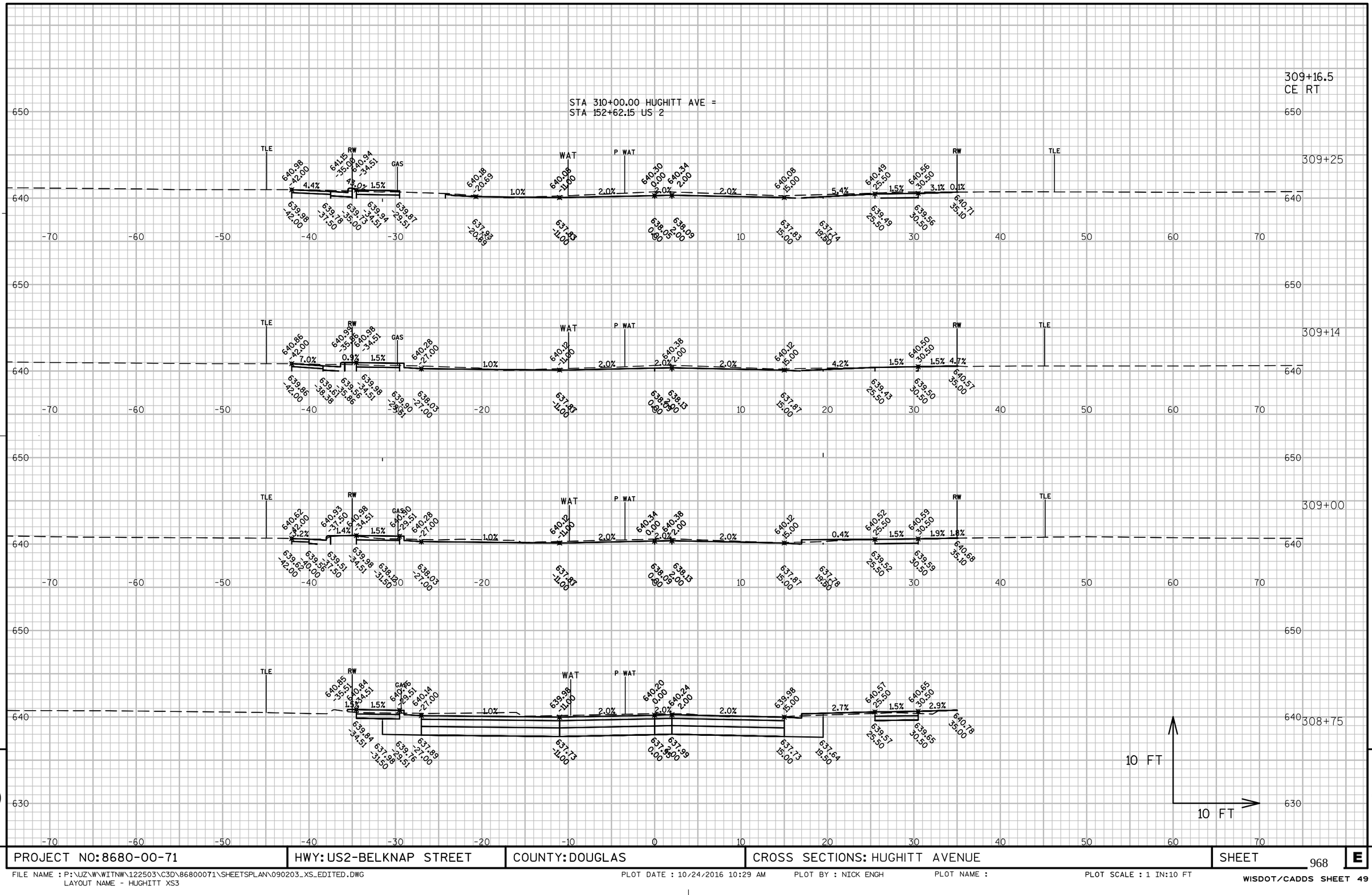
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HUGHITT AVENUE	SHEET 967	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HUGHITT XS2

PLOT DATE : 10/24/2016 10:27 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 310+00.00 HUGHITT AVE =
STA 152+62.15 US 2

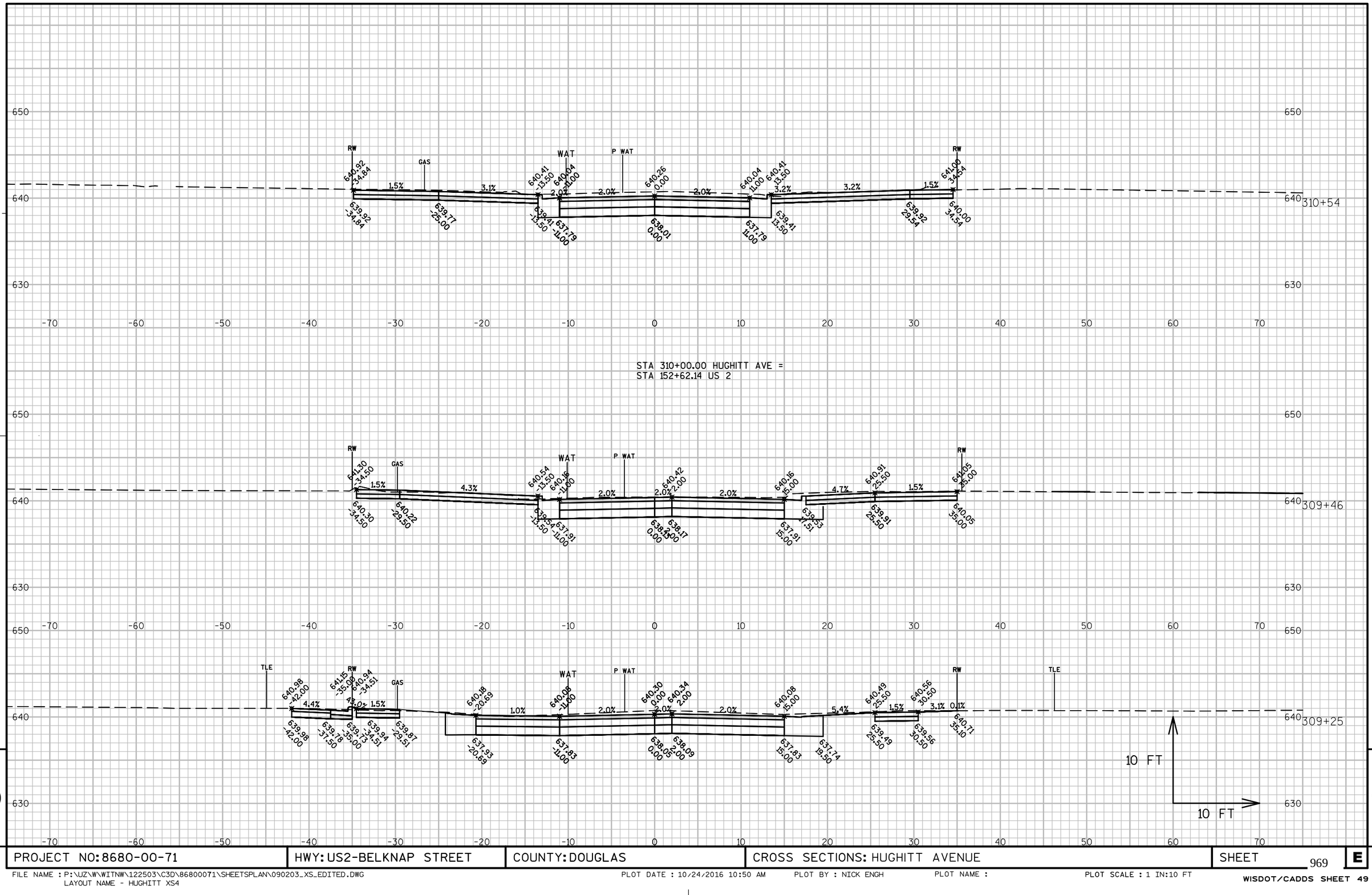


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HUGHITT AVENUE	SHEET 968 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HUGHITT XS3

PLOT DATE : 10/24/2016 10:29 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

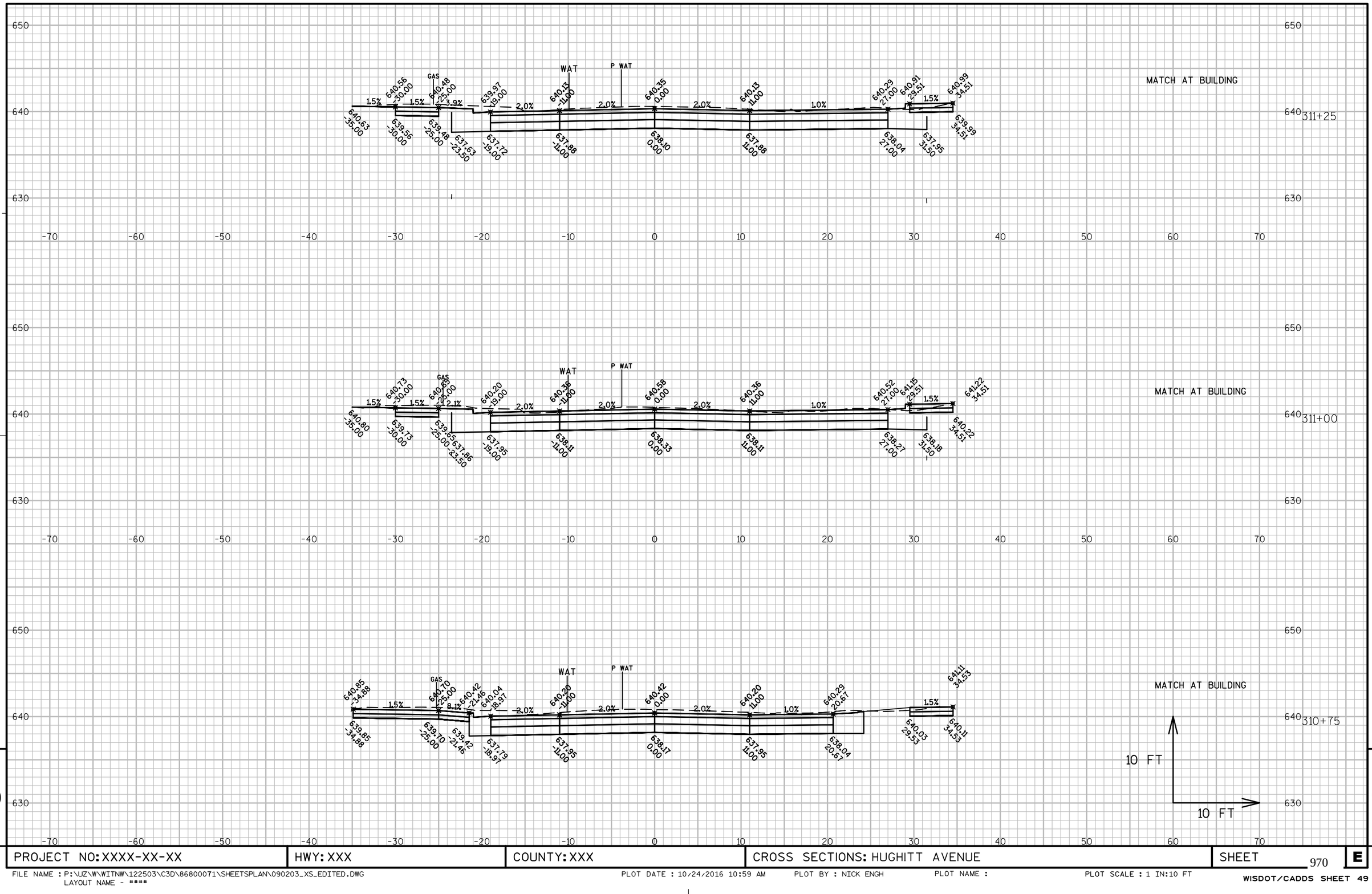


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HUGHITT AVENUE	SHEET 969	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HUGHITT XS4

PLOT DATE : 10/24/2016 10:50 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

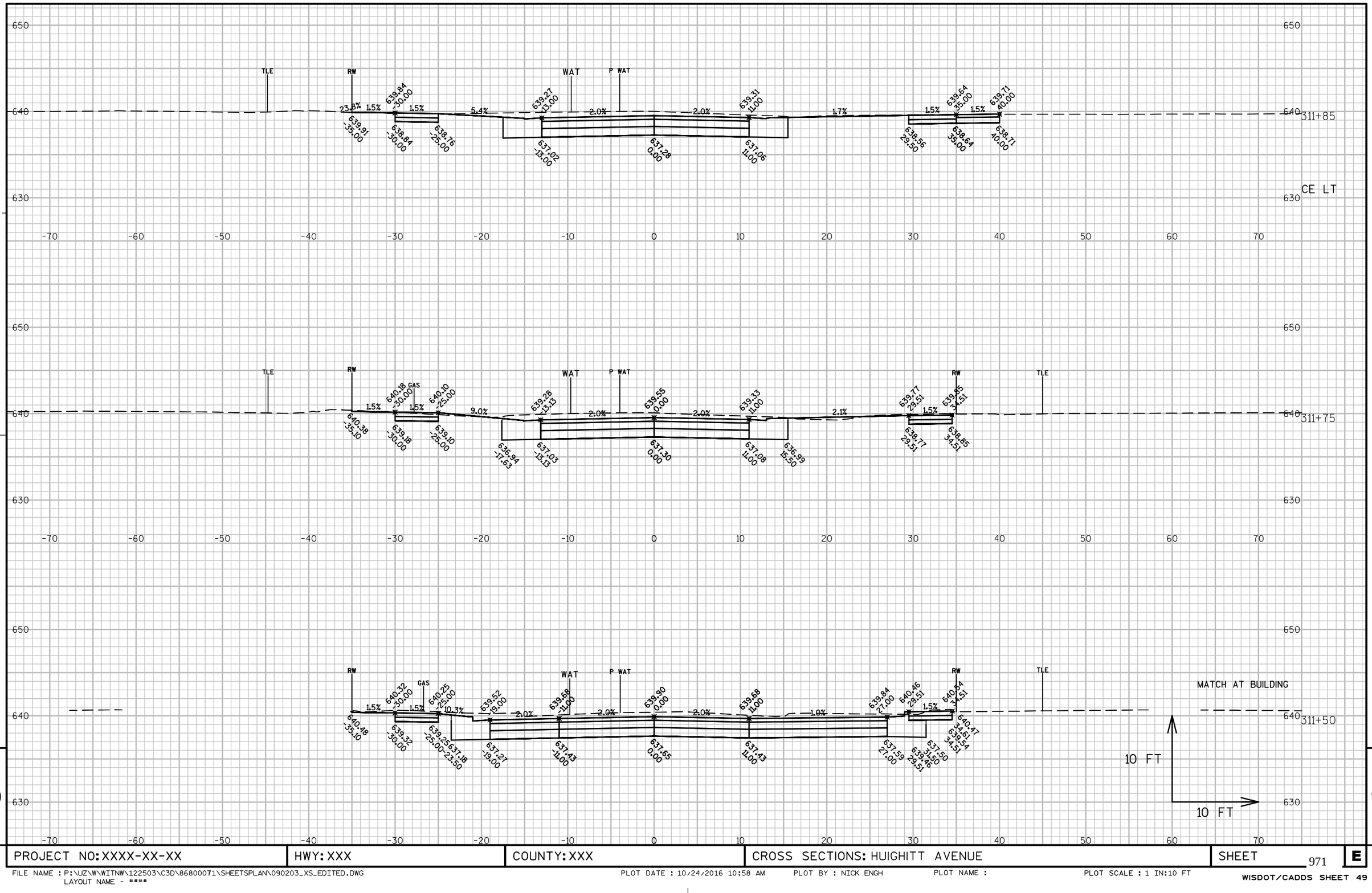
WISDOT/CADDS SHEET 49



PROJECT NO: XXXX-XX-XX	HWY: XXX	COUNTY: XXX	CROSS SECTIONS: HUGHITT AVENUE	SHEET 970	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - ****

PLOT DATE : 10/24/2016 10:59 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



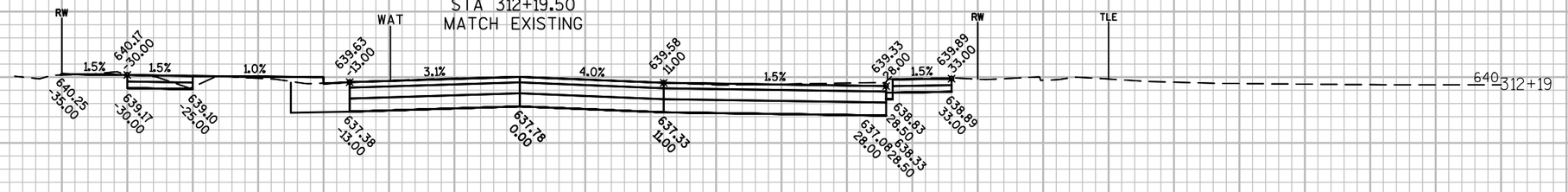
PROJECT NO: XXXX-XX-XX	HWY: XXX	COUNTY: XXX	CROSS SECTIONS: HUIGHITT AVENUE	SHEET 971	E

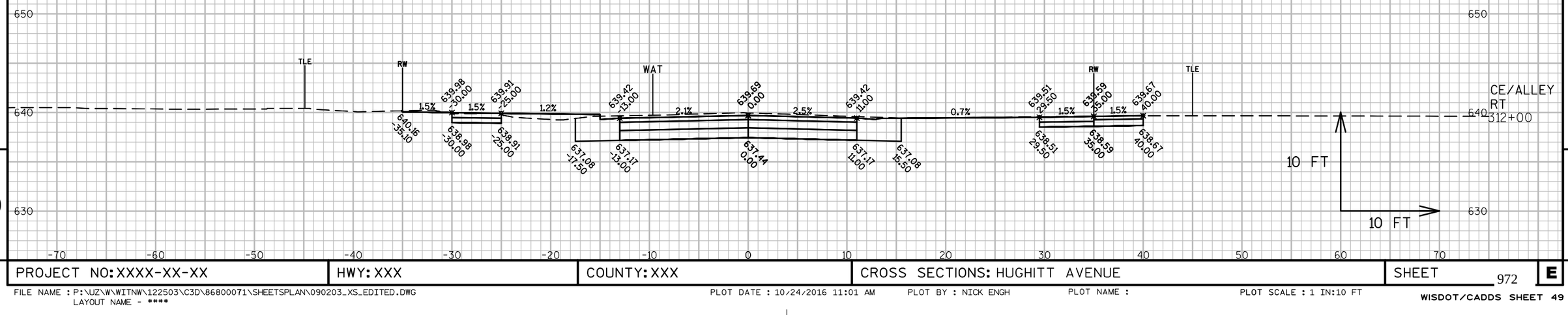
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - ****

PLOT DATE : 10/24/2016 10:58 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

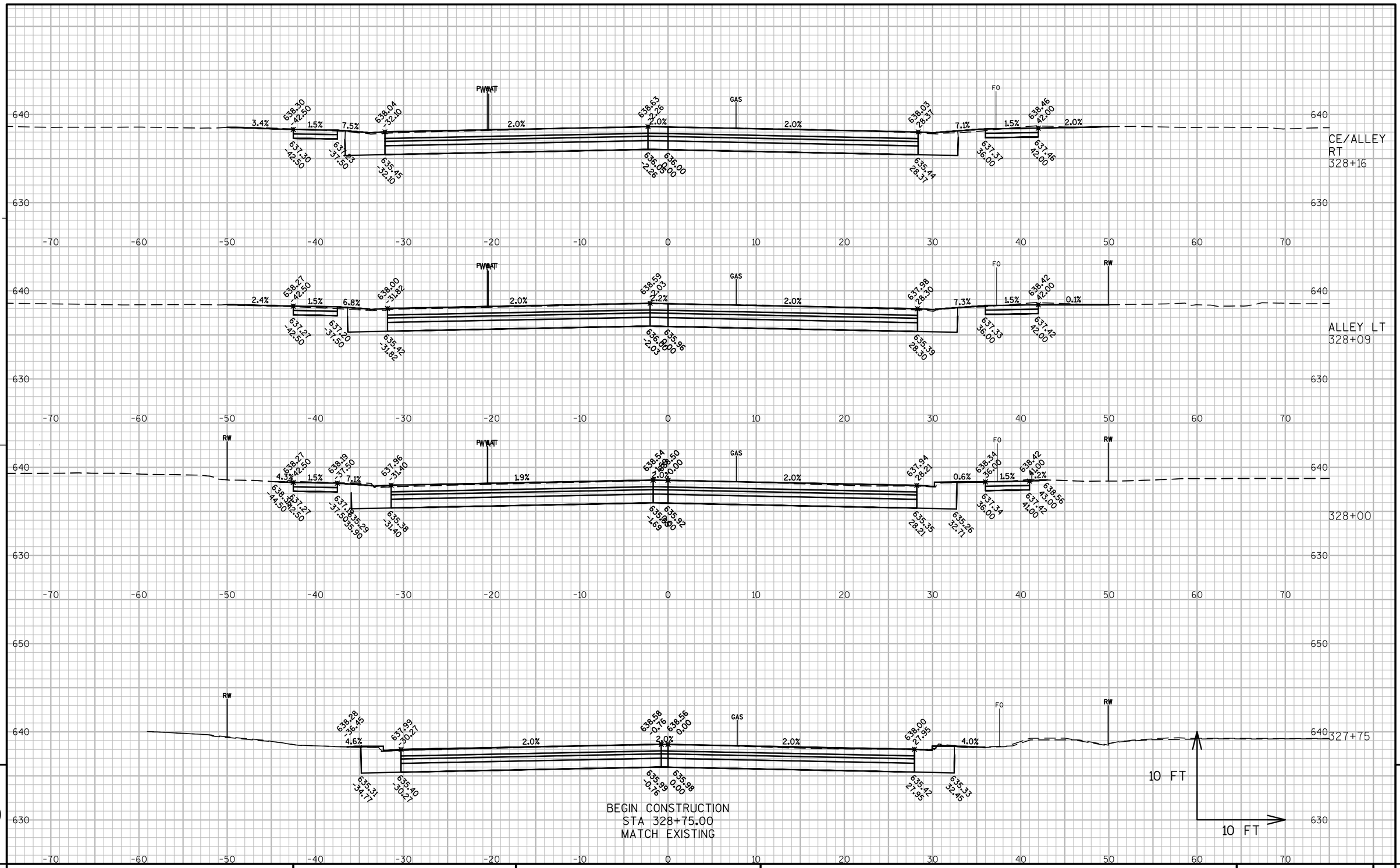
WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 312+19.50
MATCH EXISTING





PROJECT NO: XXXX-XX-XX	HWY: XXX	COUNTY: XXX	CROSS SECTIONS: HUGHITT AVENUE	SHEET 972	E



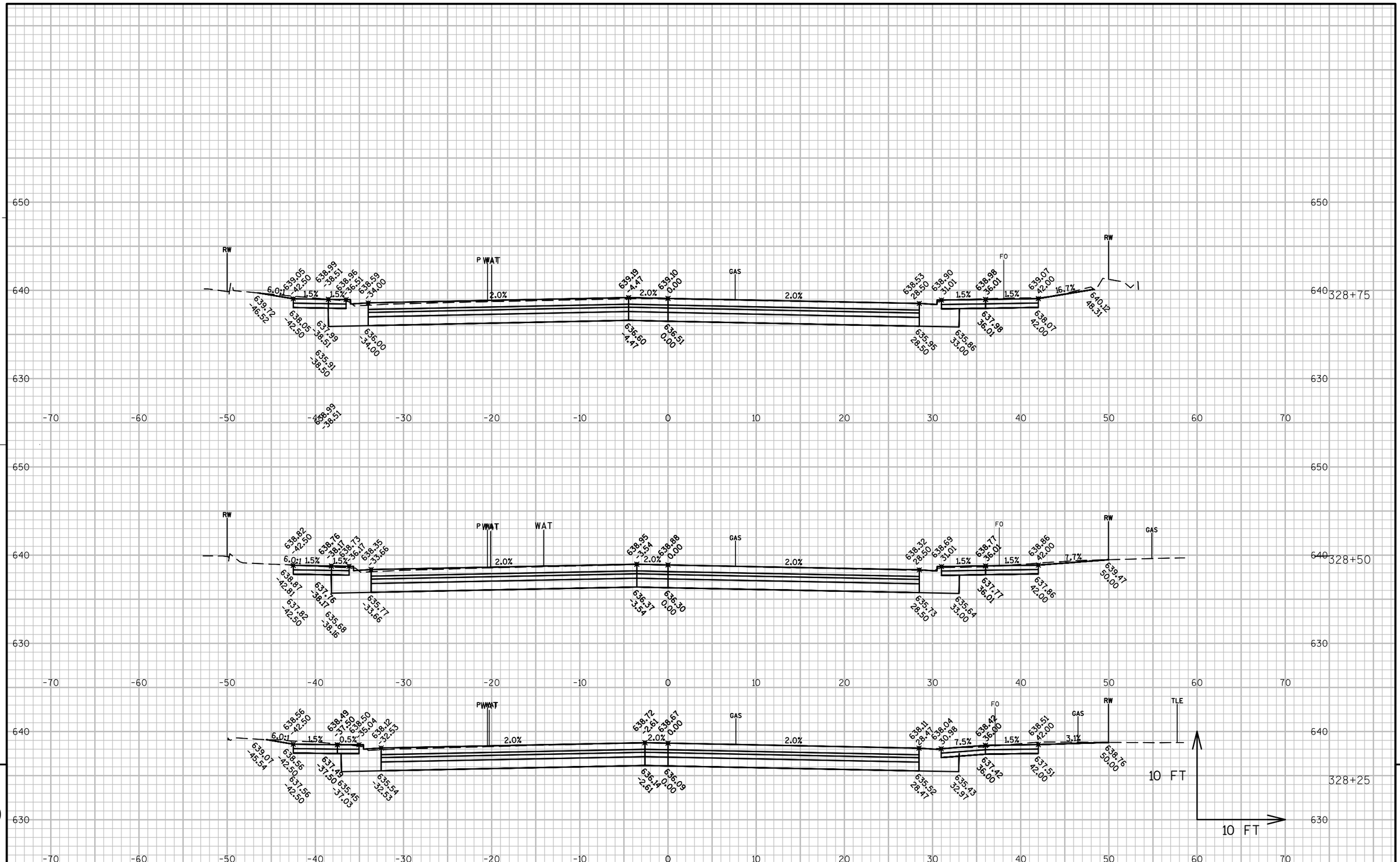
BEGIN CONSTRUCTION
STA 328+75.00
MATCH EXISTING

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HAMMOND AVENUE	SHEET 973	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HAMMOND XS1

PLOT DATE : 10/18/2016 1:19 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



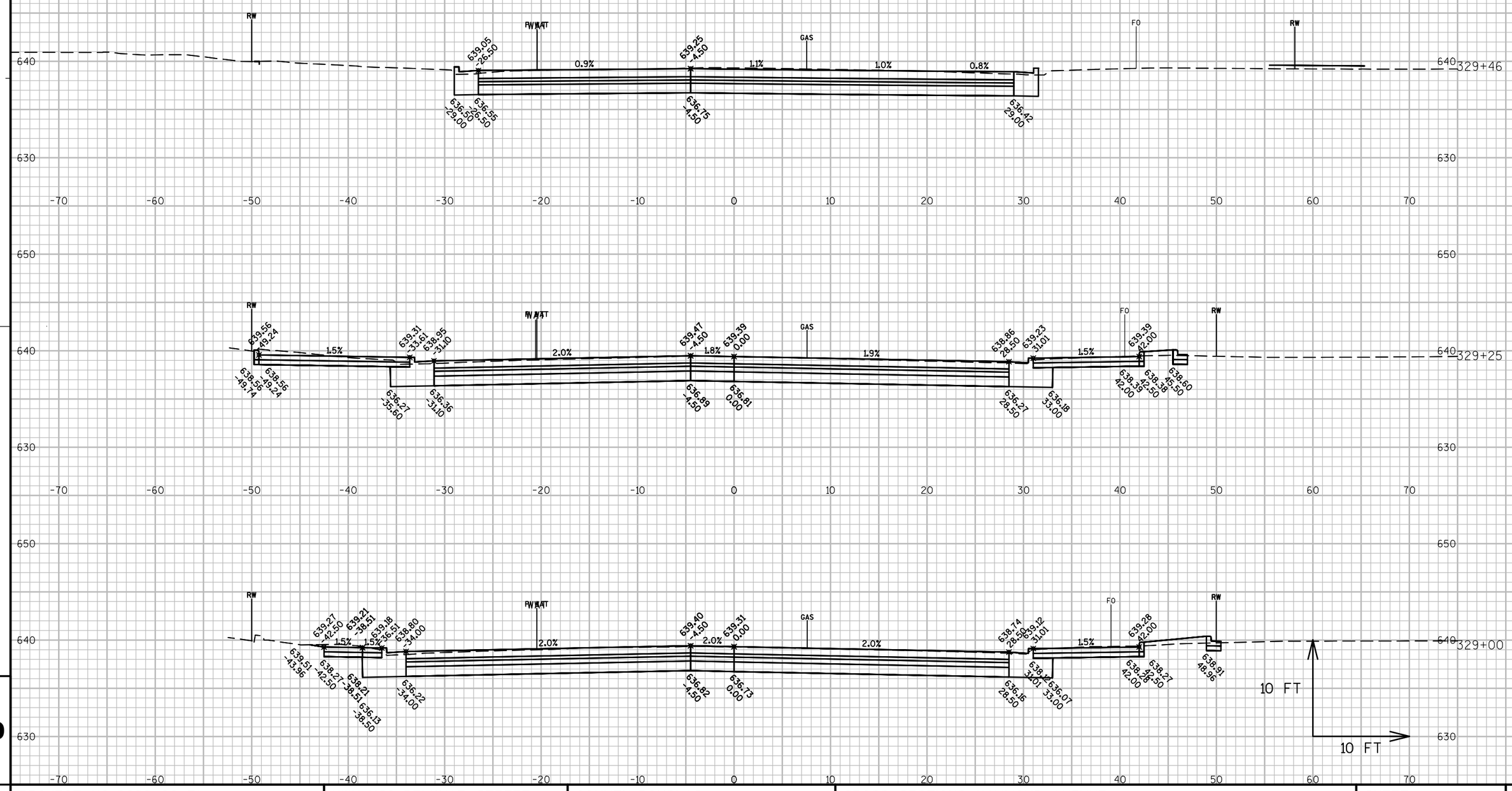
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HAMMOND AVENUE	SHEET 974 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HAMMOND XS2

PLOT DATE : 10/18/2016 1:34 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STA 330+00.05 HAMMOND AVE =
STA 156+47.14 US 2

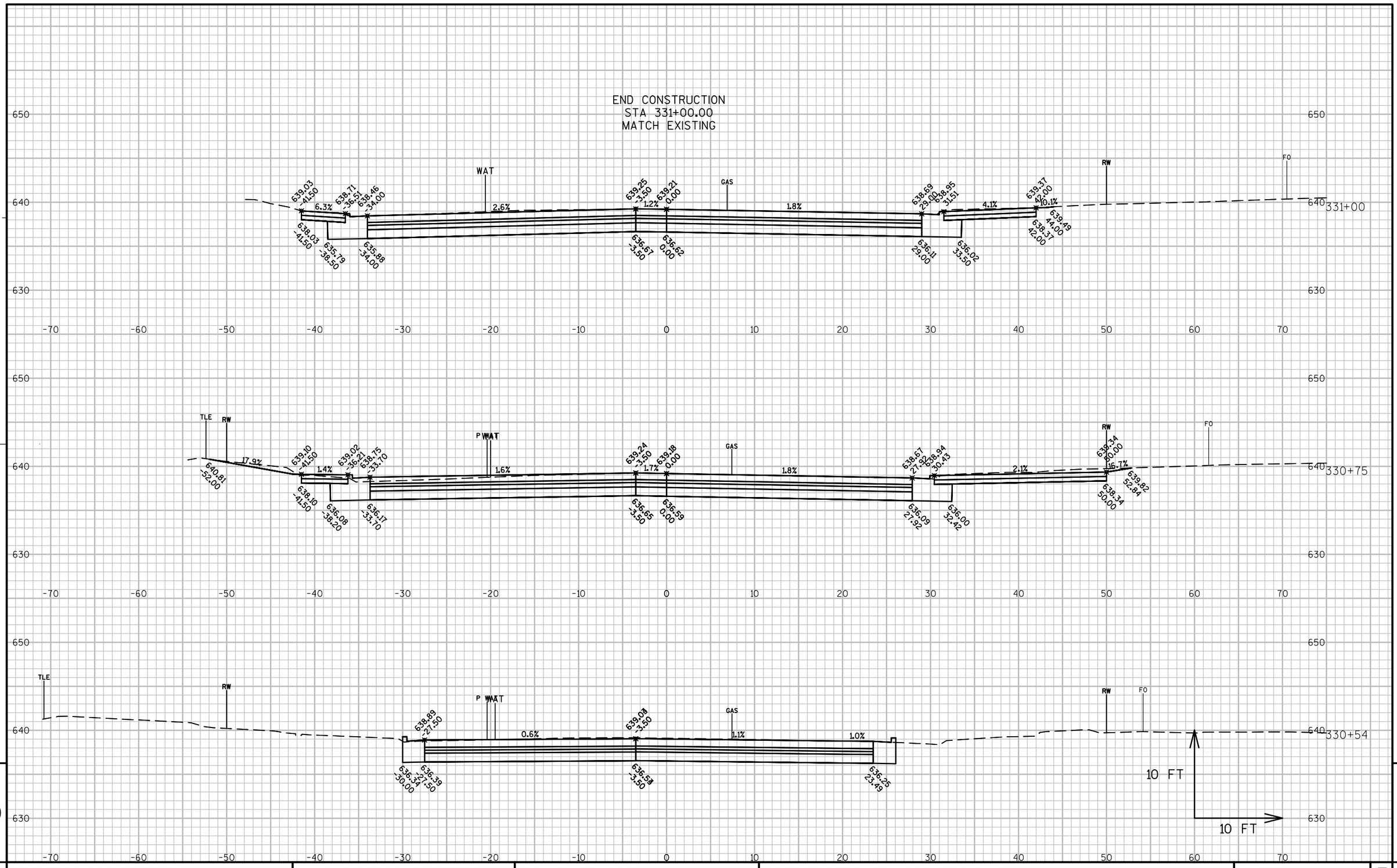


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HAMMOND AVENUE	SHEET 975 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HAMMOND XS3

PLOT DATE : 10/18/2016 2:02 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

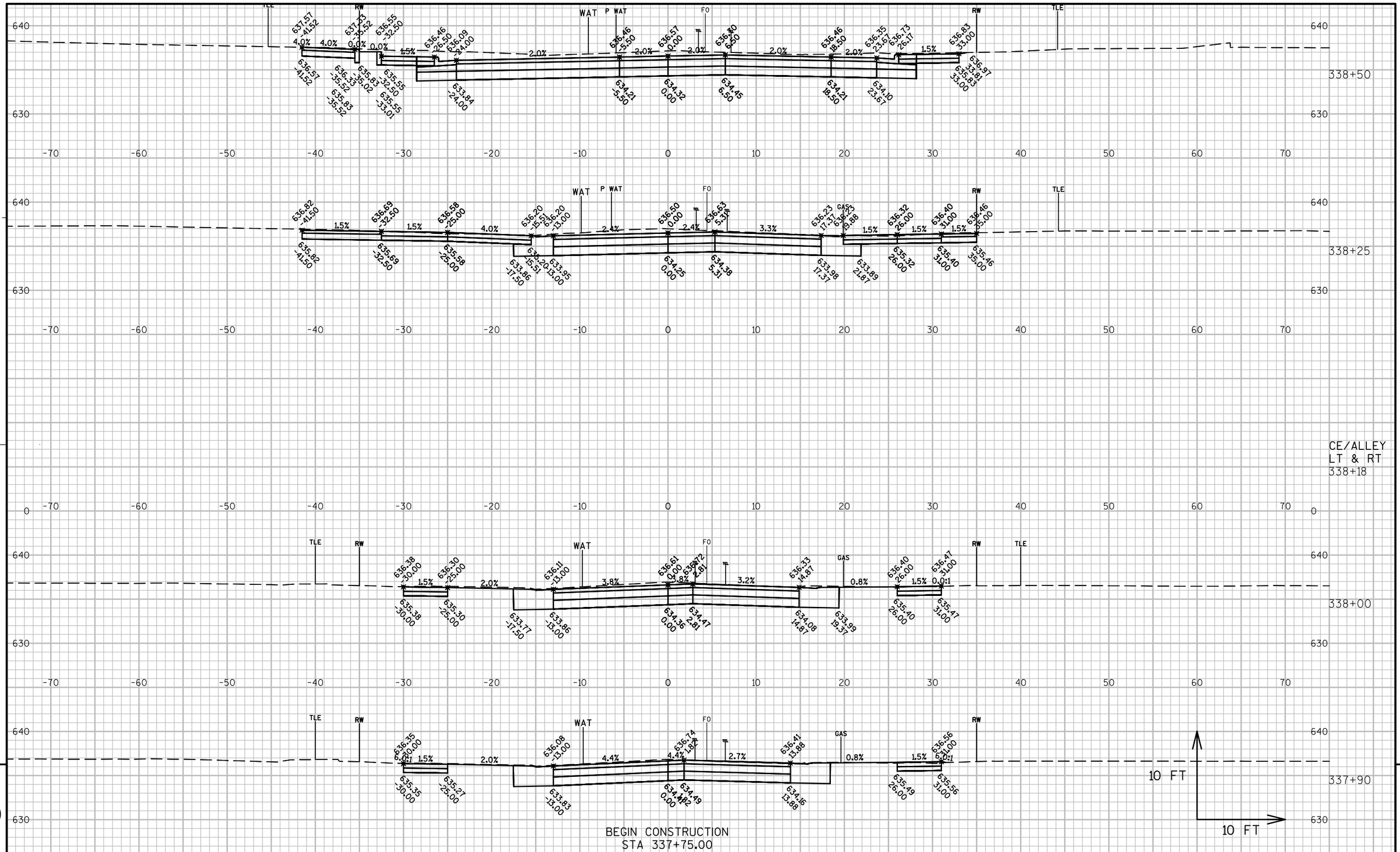
END CONSTRUCTION
STA 331+00.00
MATCH EXISTING



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HAMMOND AVENUE	SHEET 976 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - HAMMOND XS4

PLOT DATE : 10/18/2016 2:54 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

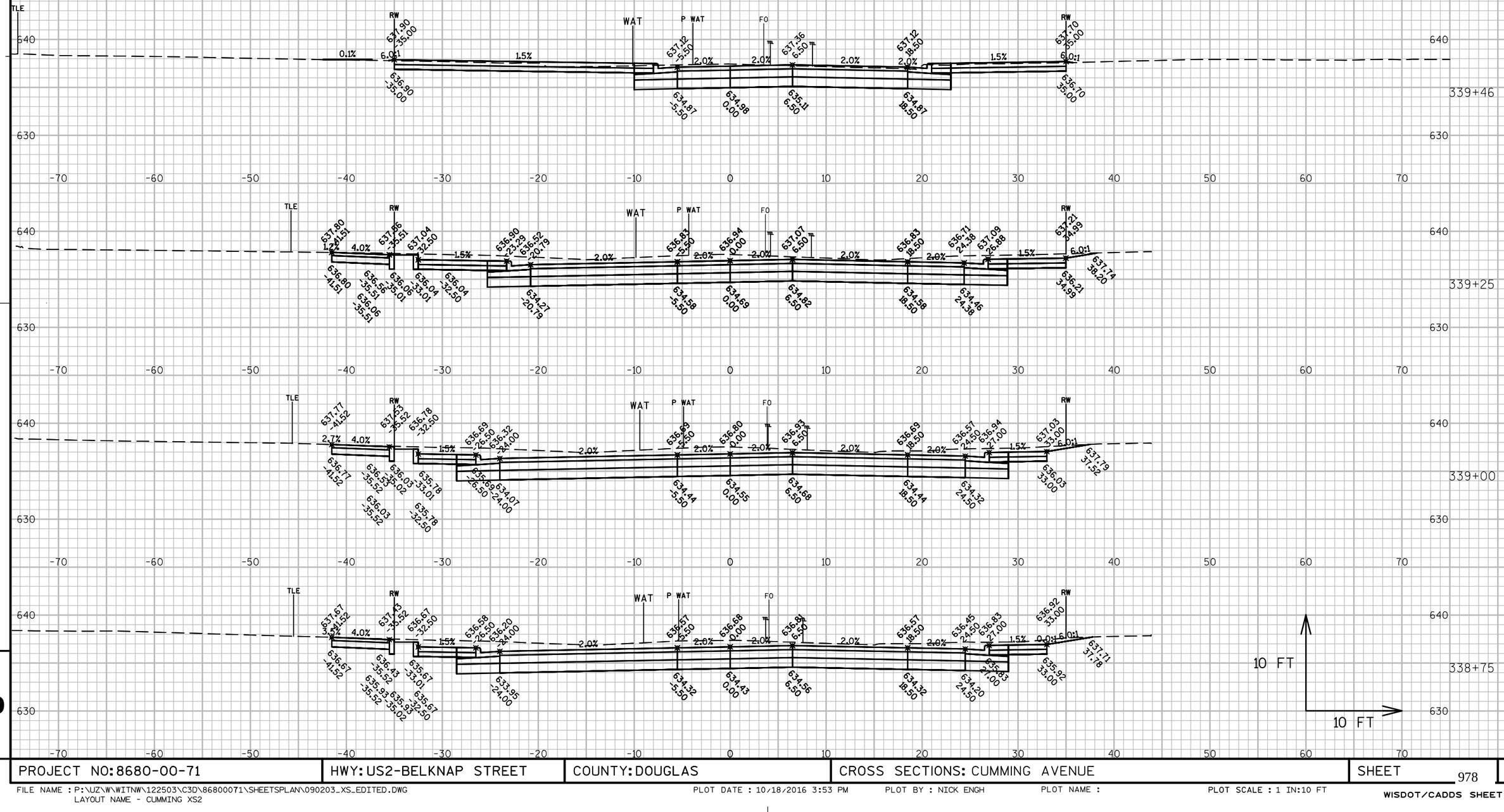


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CUMMING AVENUE	SHEET 977 E

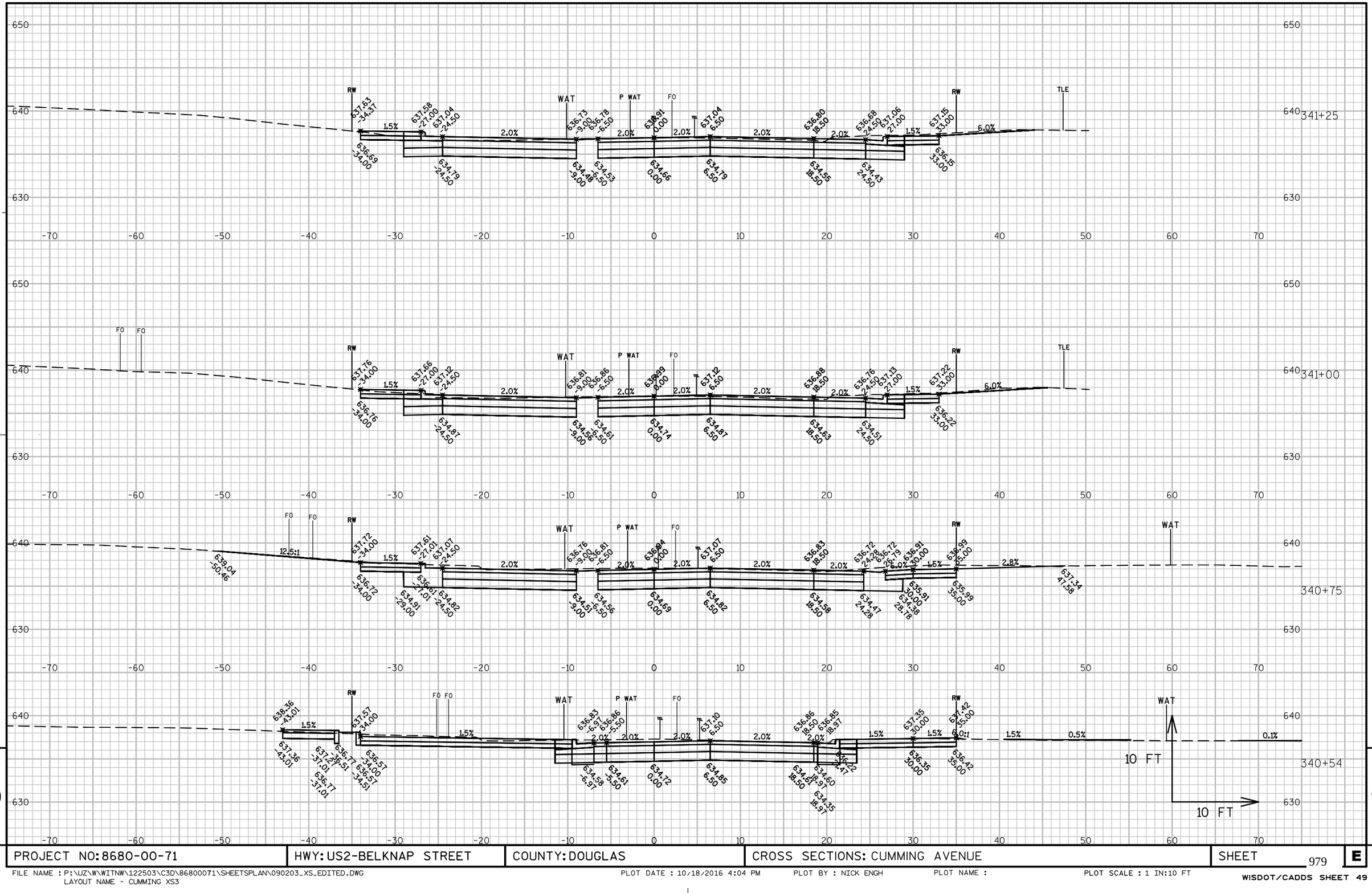
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - CUMMING XS1

PLOT DATE : 10/18/2016 3:43 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 340+00.00 CUMMING AVE =
STA 160+32.28 US 2



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CUMMING AVENUE	SHEET 978	E

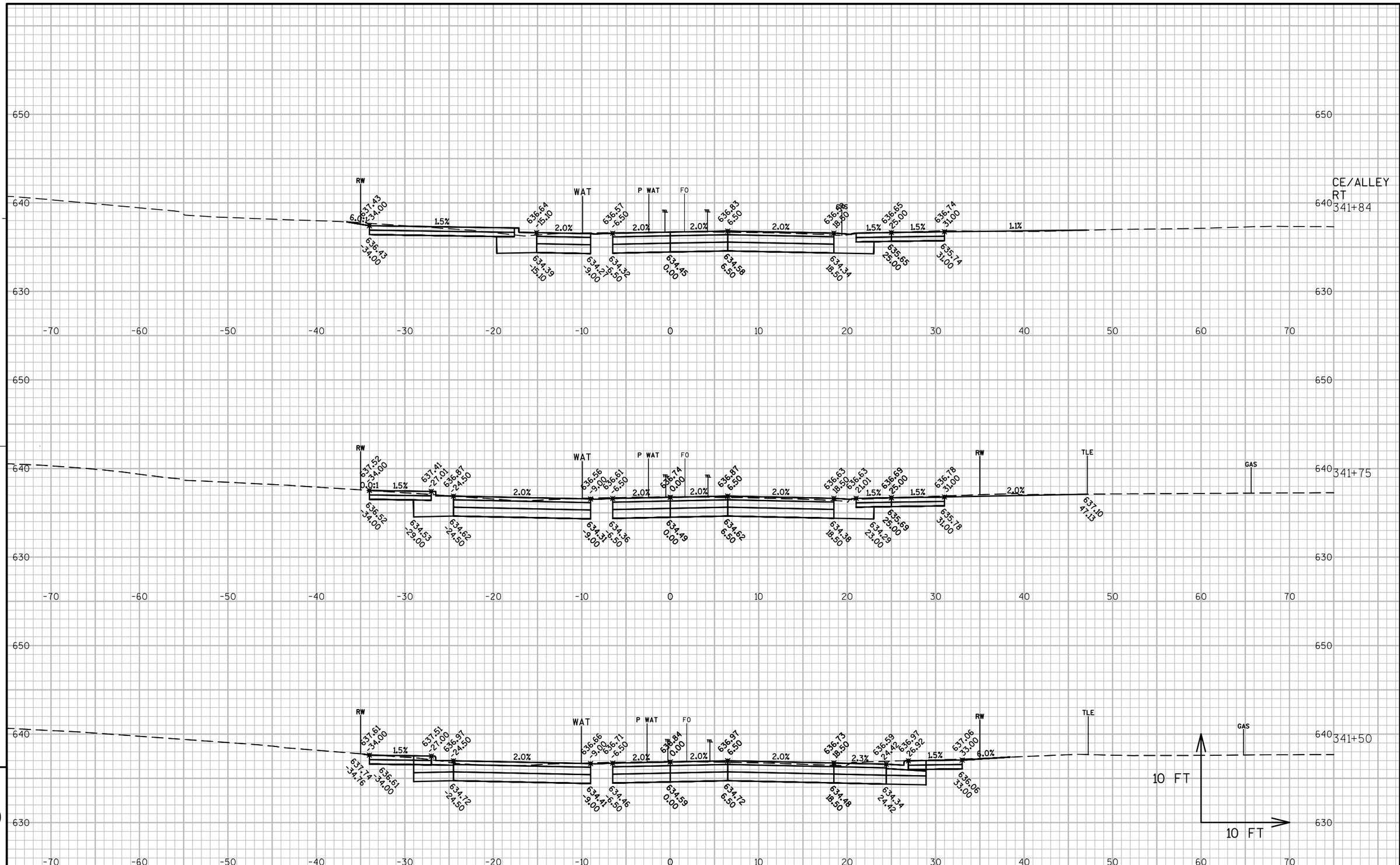


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CUMMING AVENUE	SHEET 979	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - CUMMING XS3

PLOT DATE : 10/18/2016 4:04 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

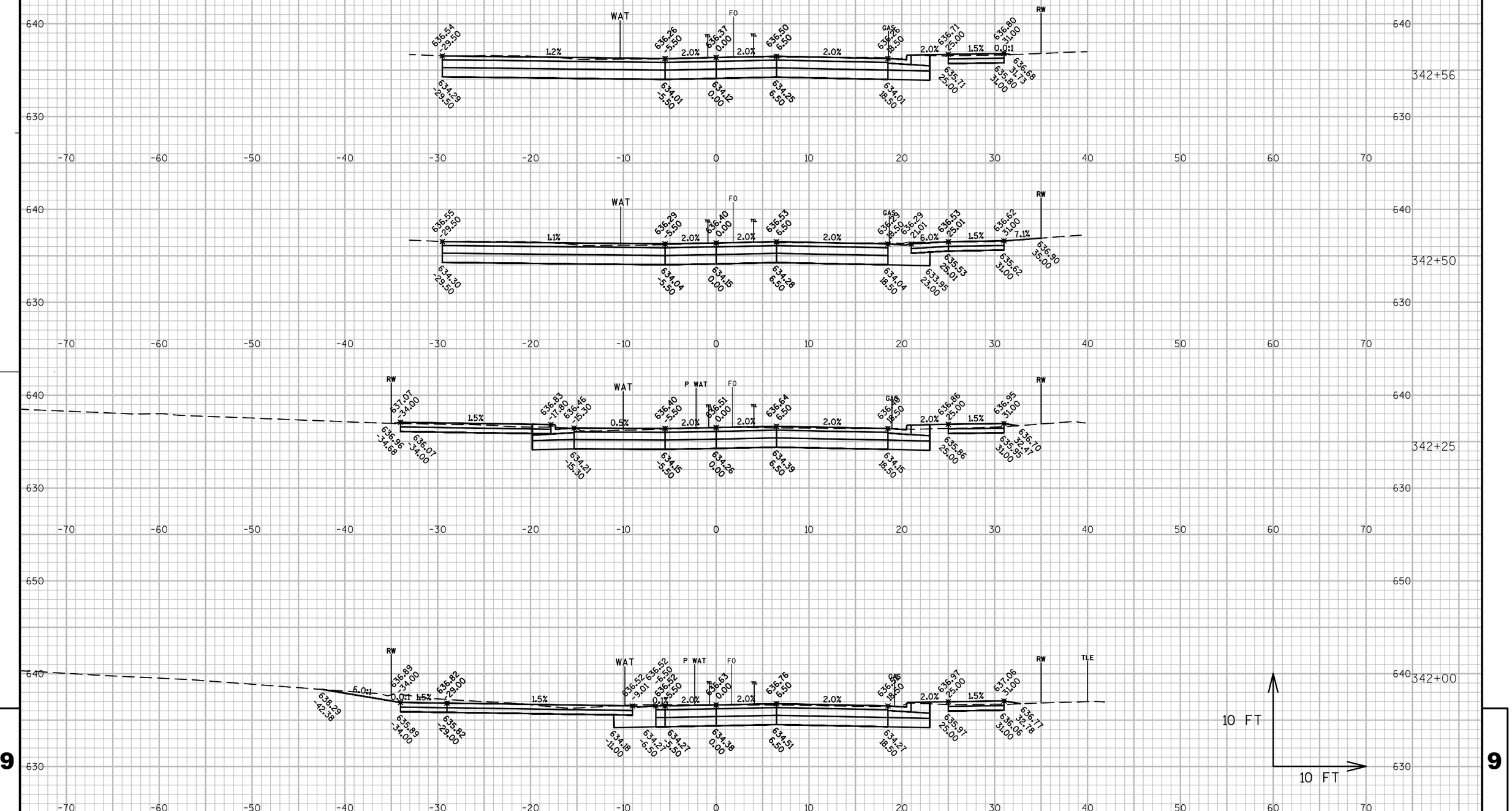


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CUMMING AVENUE	SHEET 980 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - CUMMING XS4

PLOT DATE : 10/18/2016 4:09 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 342+56.50

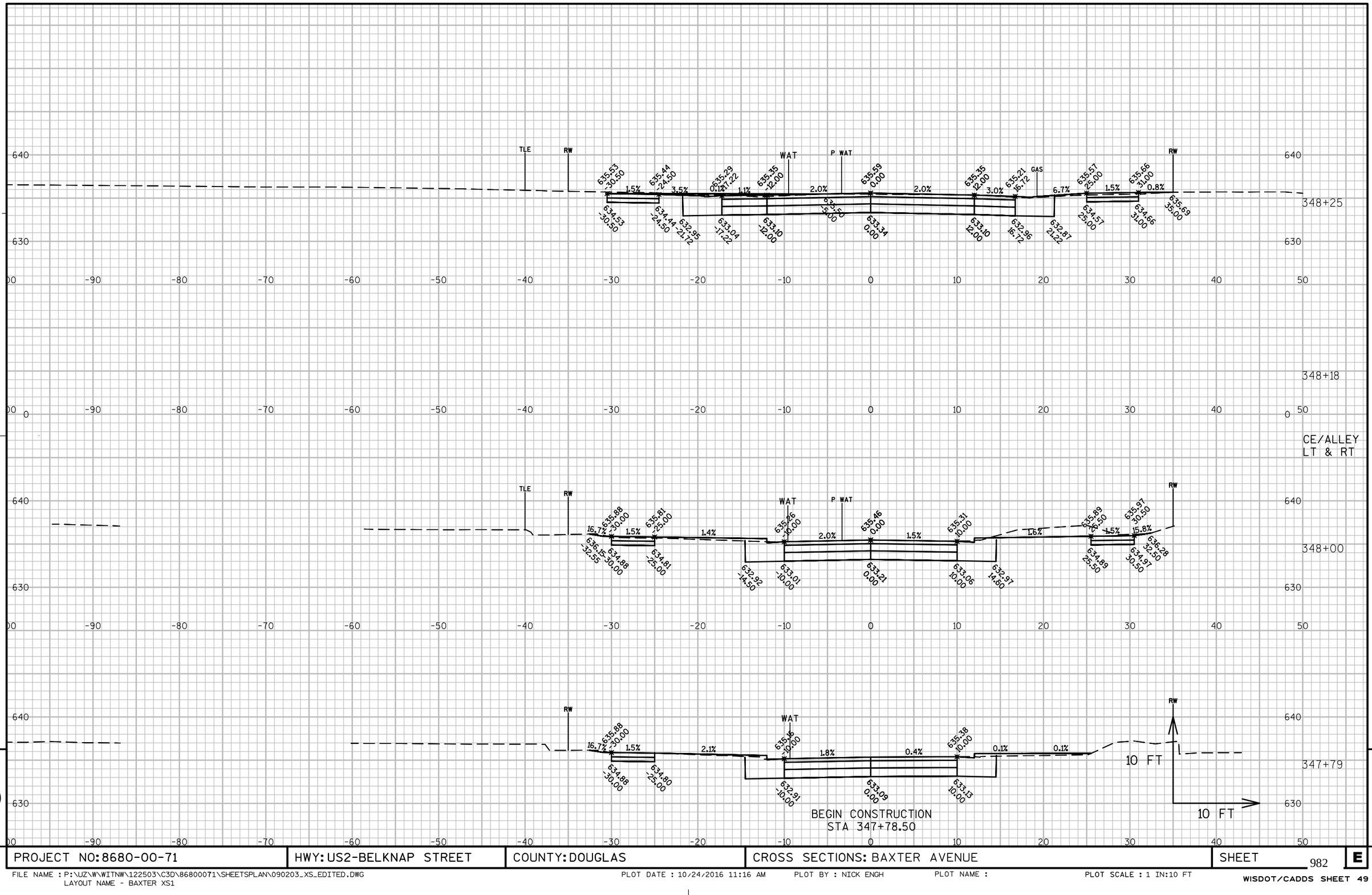


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CUMMING AVENUE	SHEET 981 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - CUMMING XS5

PLOT DATE : 10/18/2016 4:15 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

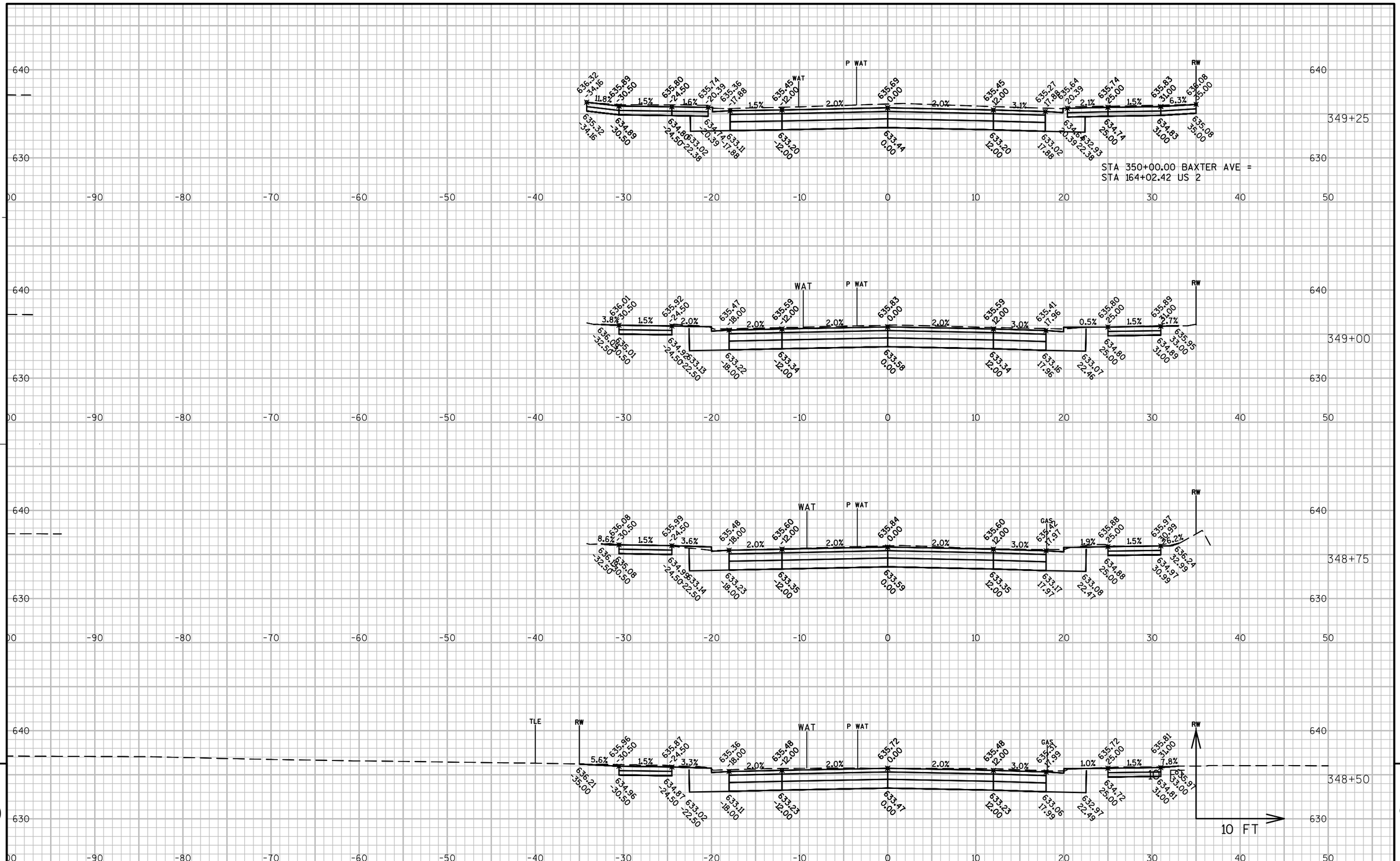
WISDOT/CADDS SHEET 49



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BAXTER AVENUE	SHEET 982 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - BAXTER XS1

PLOT DATE : 10/24/2016 11:16 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

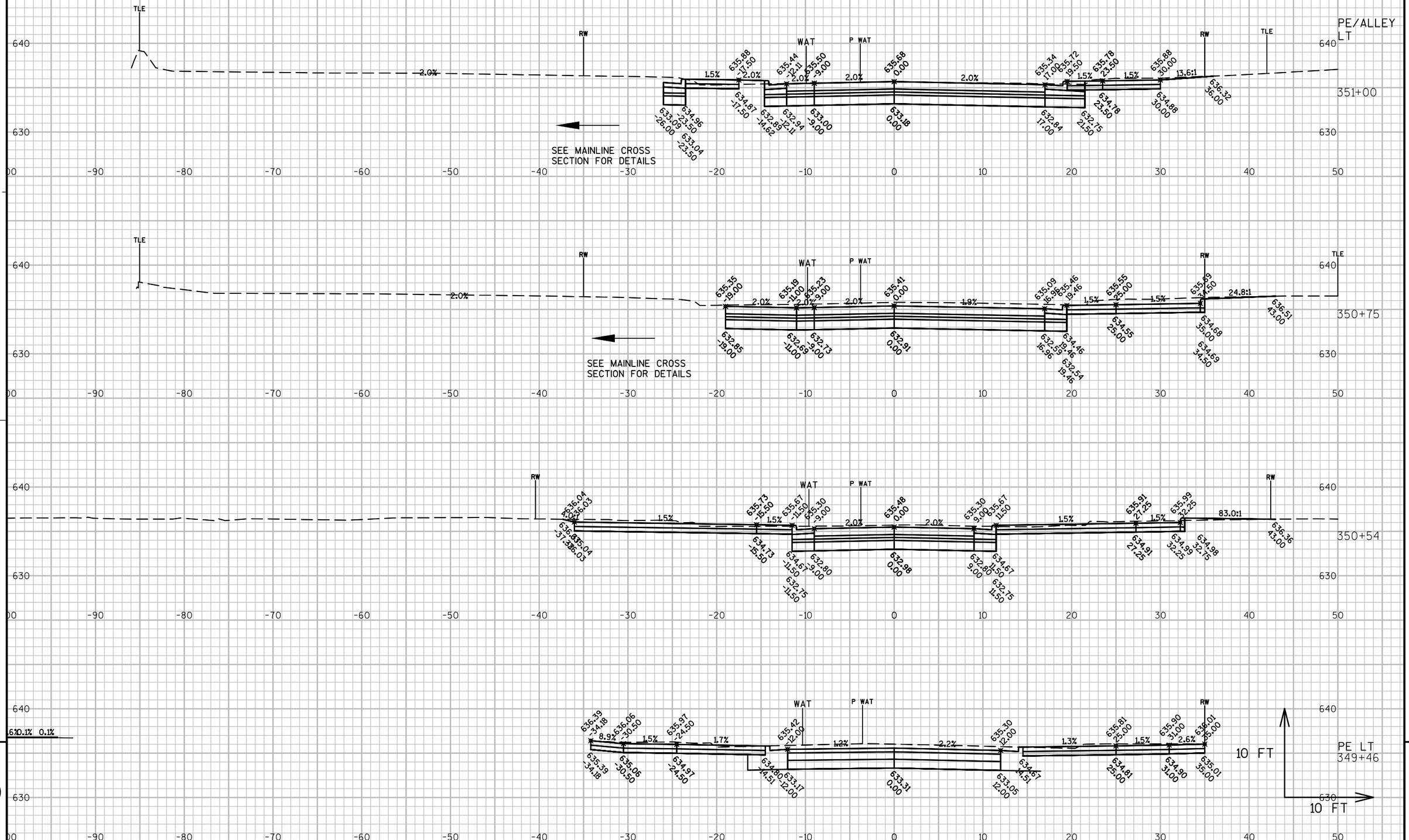


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BAXTER AVENUE	SHEET 983 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - BAXTER XS2

PLOT DATE : 10/24/2016 11:19 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BAXTER AVENUE	SHEET 984	E

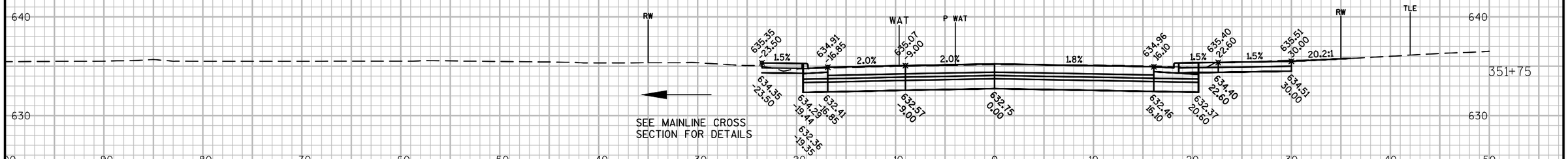
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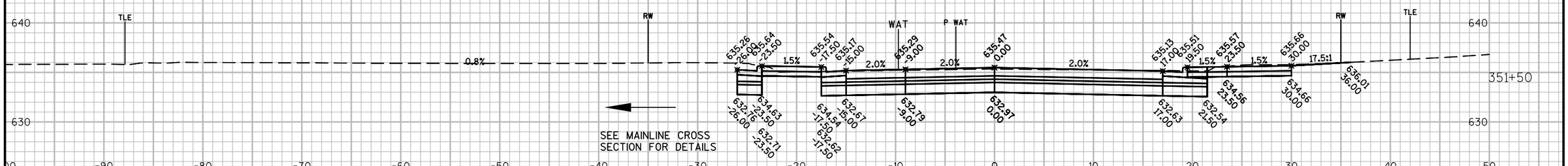
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - BAXTER XS3

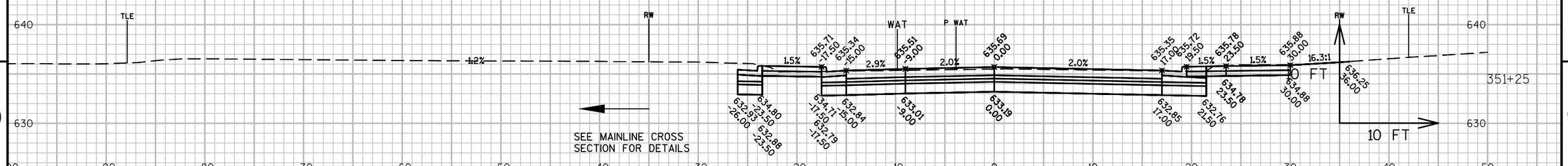
PLOT DATE : 10/24/2016 11:24 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 352+29.00







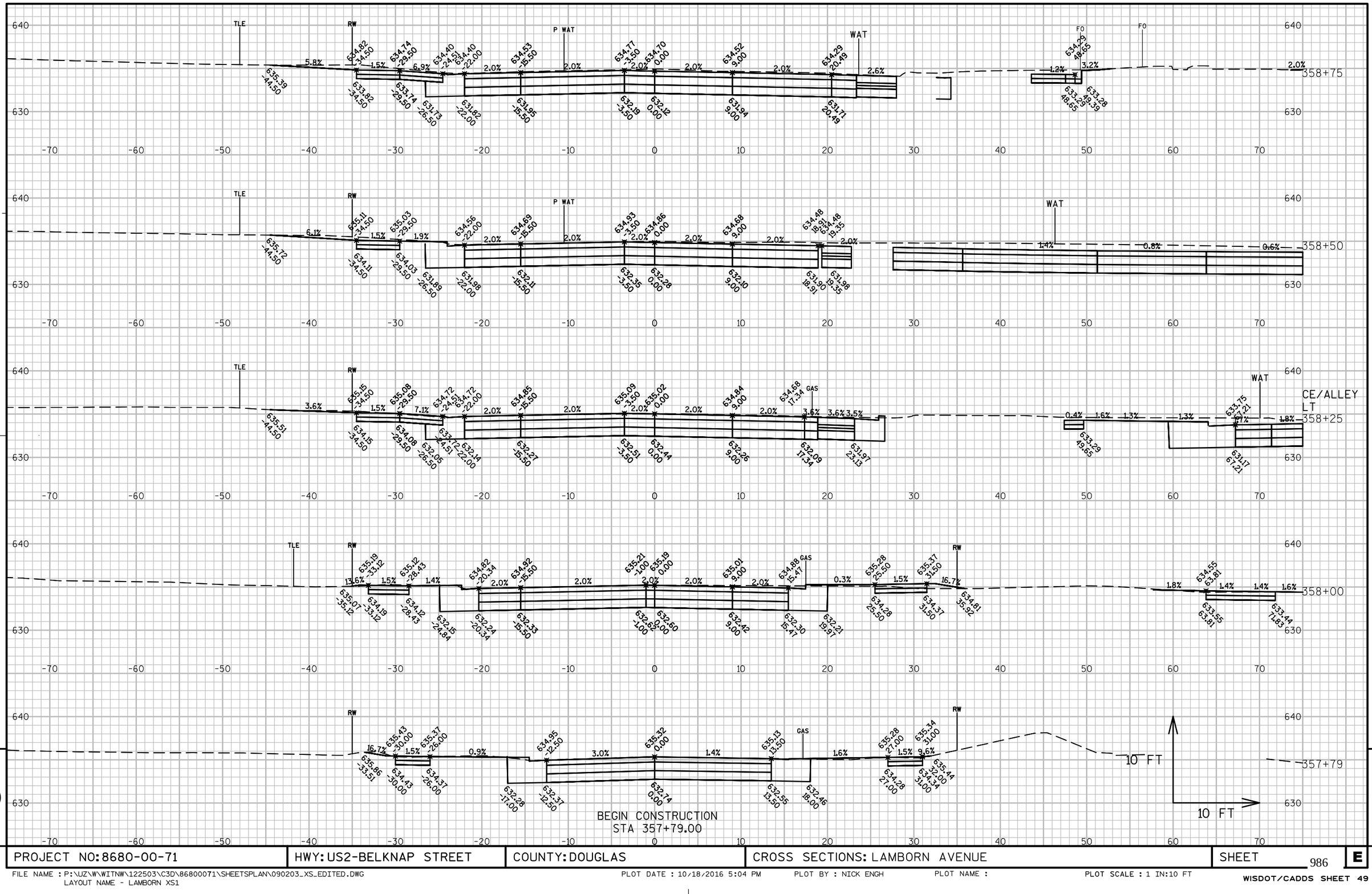


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BAXTER AVENUE	SHEET 985 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - BAXTER XS4

PLOT DATE : 10/24/2016 2:05 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

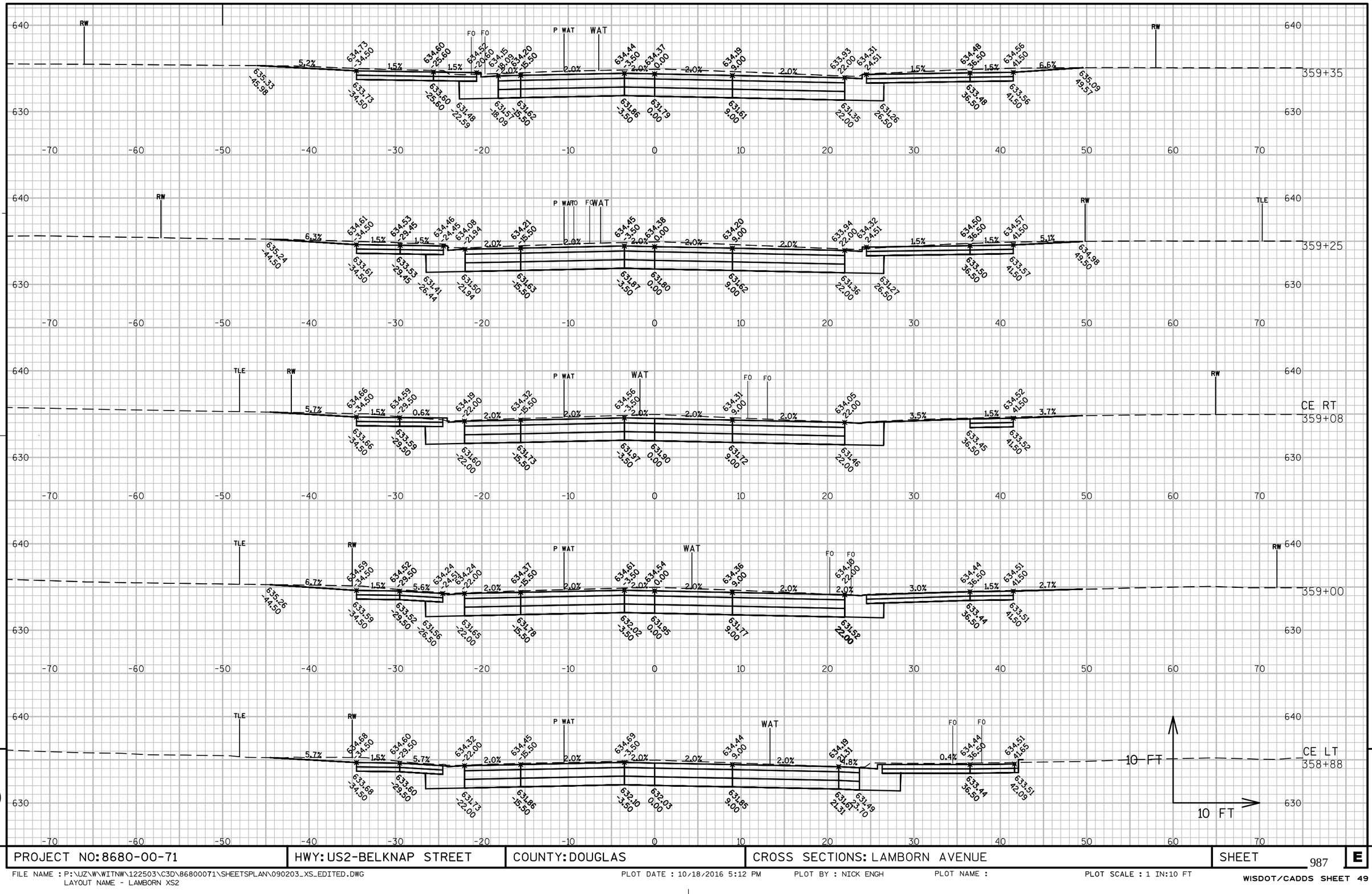


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: LAMBORN AVENUE	SHEET 986	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - LAMBORN XS1

PLOT DATE : 10/18/2016 5:04 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

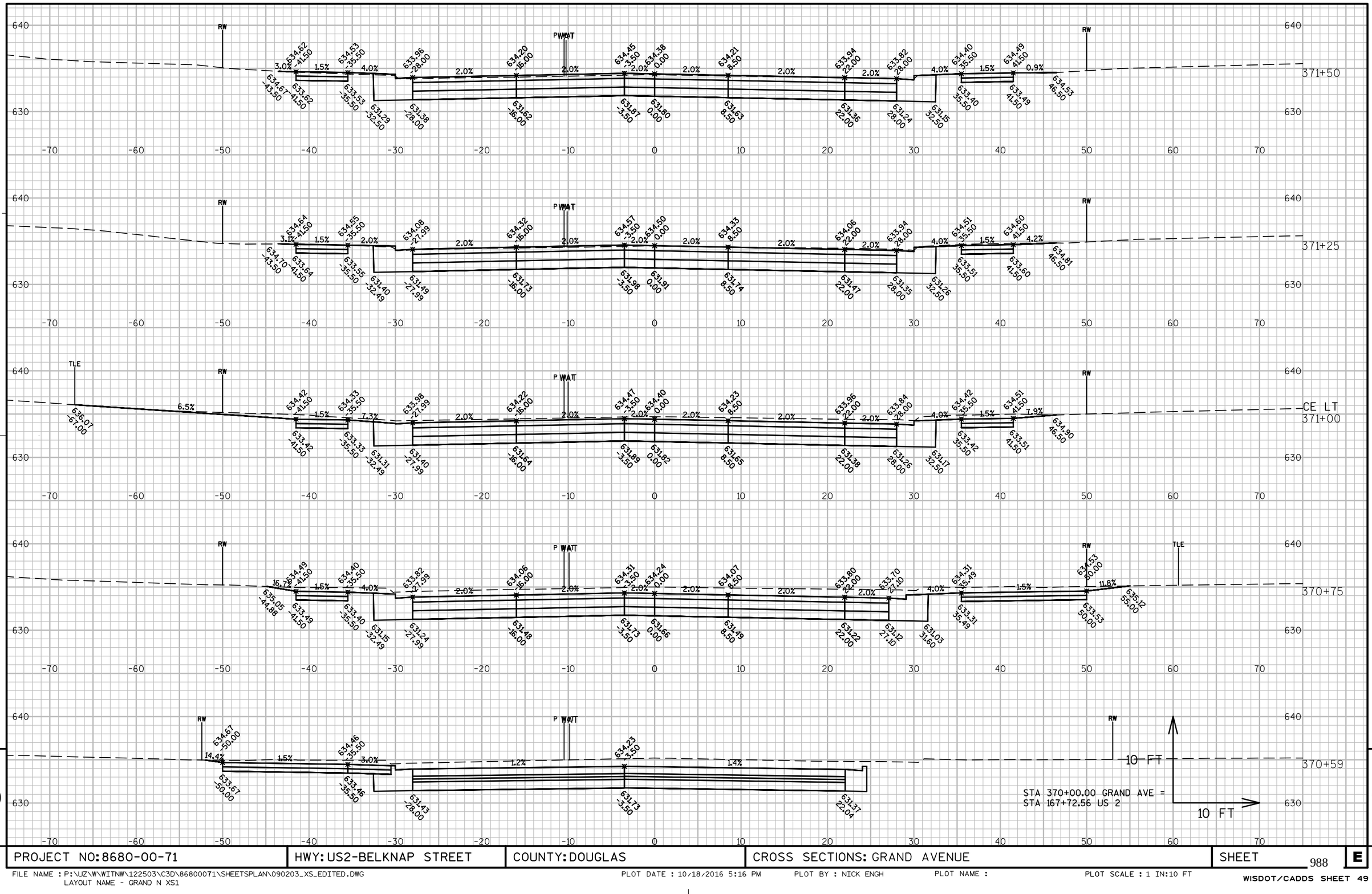
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: LAMBORN AVENUE	SHEET 987	E

9

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - LAMBORN XS2

PLOT DATE : 10/18/2016 5:12 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

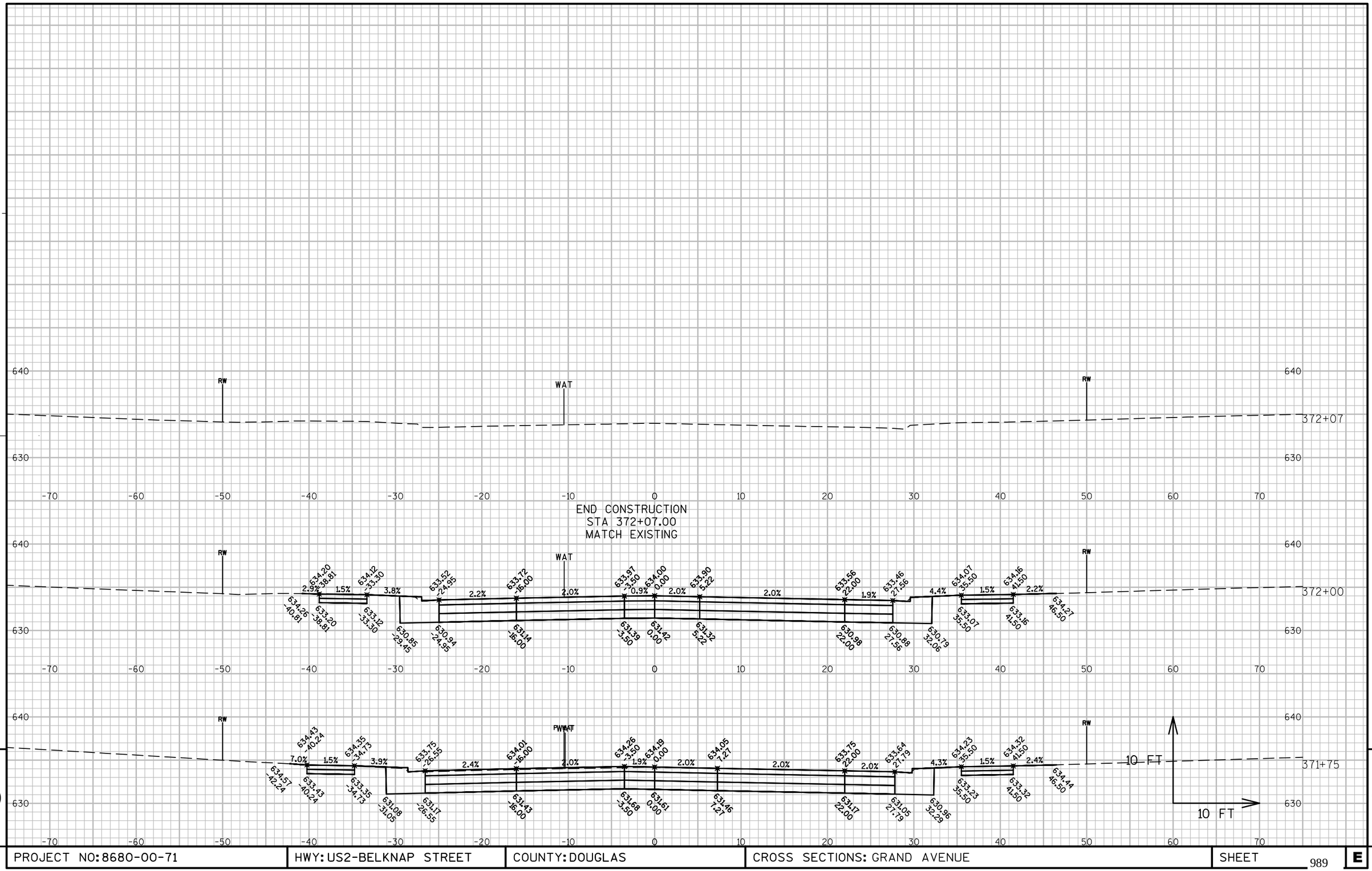
9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: GRAND AVENUE	SHEET 988	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - GRAND N XS1

PLOT DATE : 10/18/2016 5:16 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: GRAND AVENUE	SHEET 989	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - GRAND N XS2

PLOT DATE : 10/18/2016 5:18 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

9

9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: WEEKS AVENUE	SHEET 990	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - WEEKS XS1

PLOT DATE : 10/19/2016 8:02 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

9

9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: WEEKS AVENUE	SHEET 991	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - WEEKS XS2

PLOT DATE : 10/19/2016 8:04 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 382+50.00
MATCH EXISTING

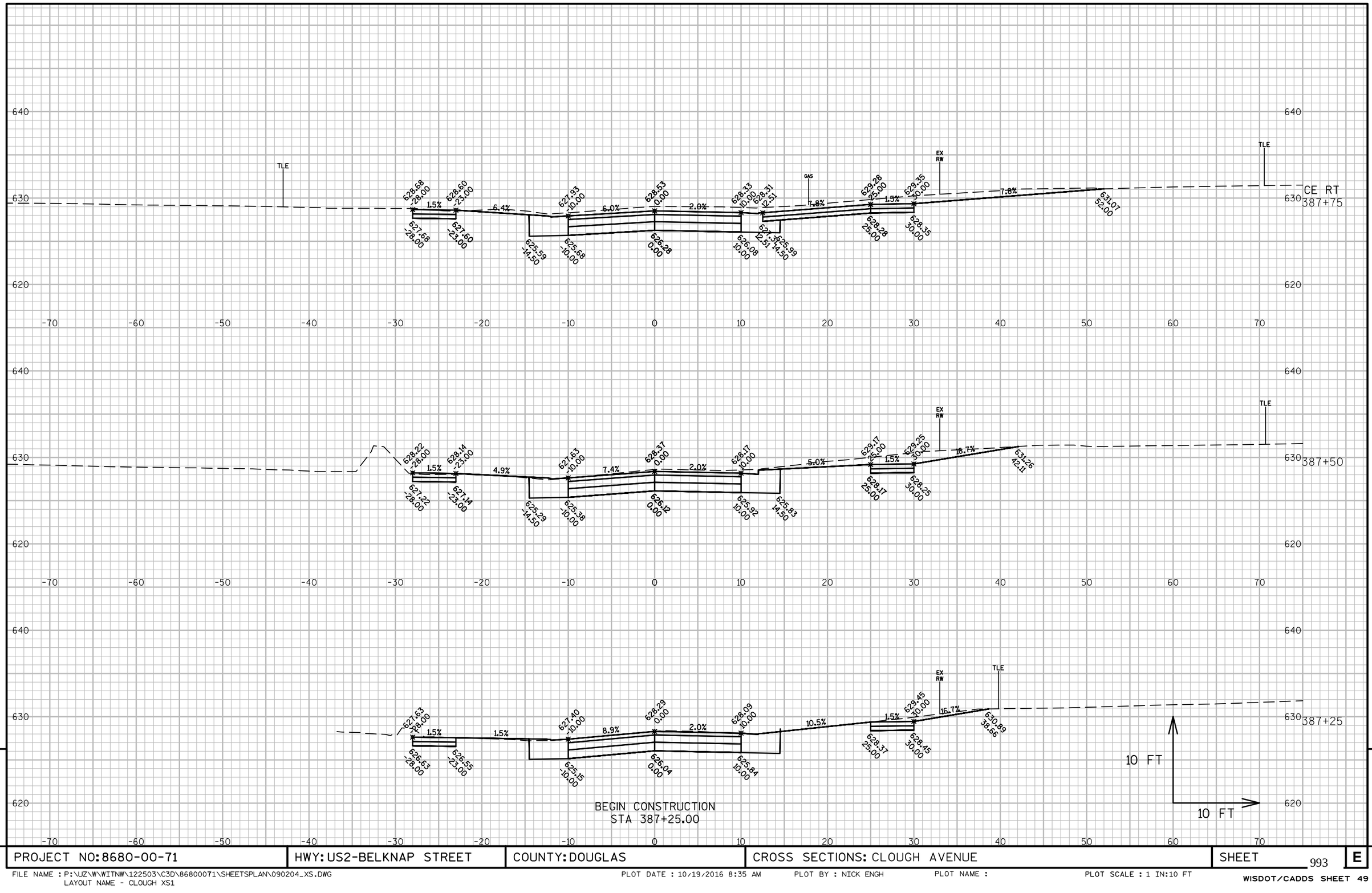
9

9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: WEEKS AVENUE	SHEET 992 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090203_XS_EDITED.DWG
LAYOUT NAME - WEEKS XS3

PLOT DATE : 10/19/2016 8:06 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

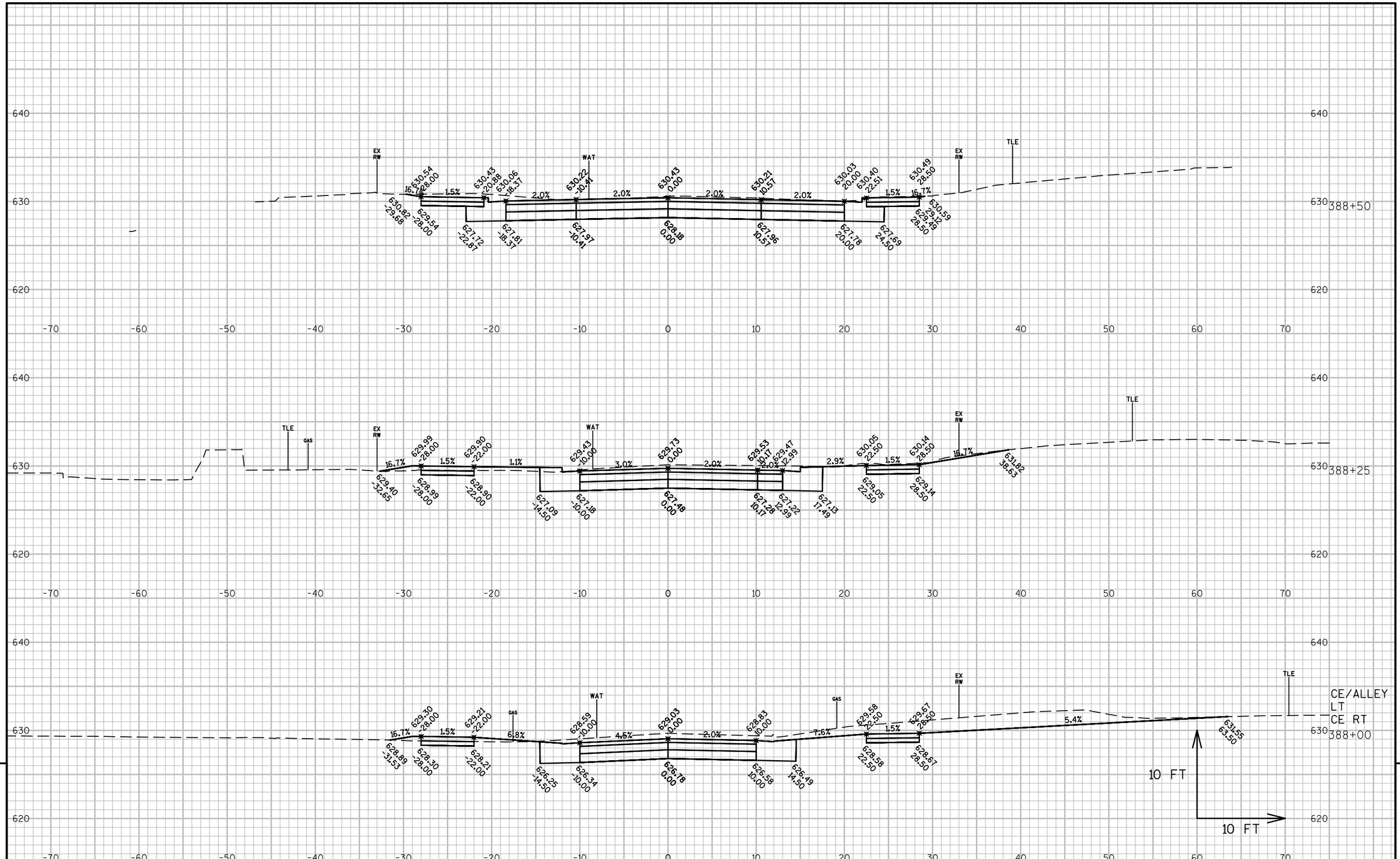


9	PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CLOUGH AVENUE	SHEET 993 E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS.DWG
LAYOUT NAME - CLOUGH XS1

PLOT DATE : 10/19/2016 8:35 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

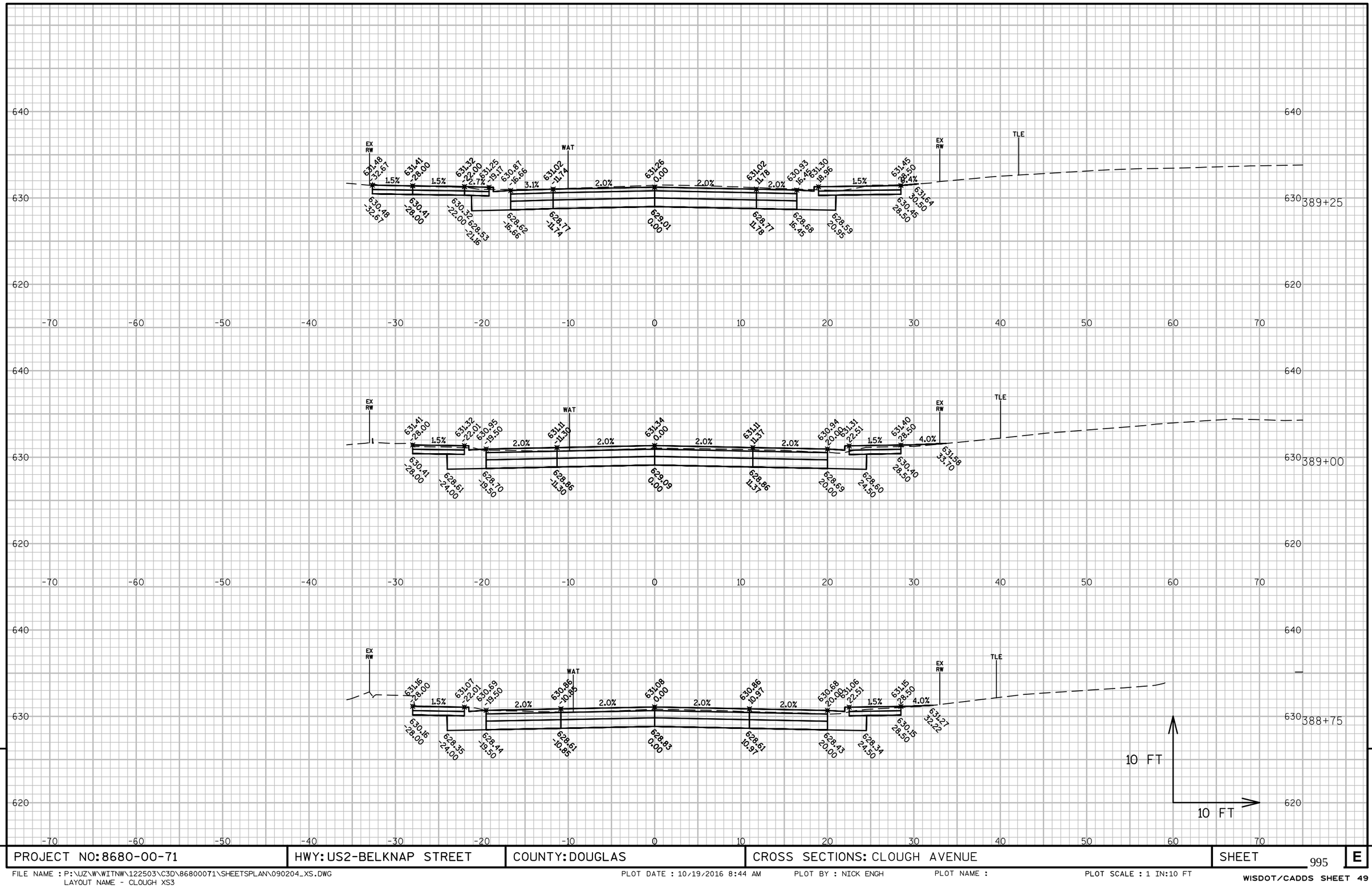
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CLOUGH AVENUE	SHEET 994	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS.DWG
LAYOUT NAME - CLOUGH XS2

PLOT DATE : 10/19/2016 8:41 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



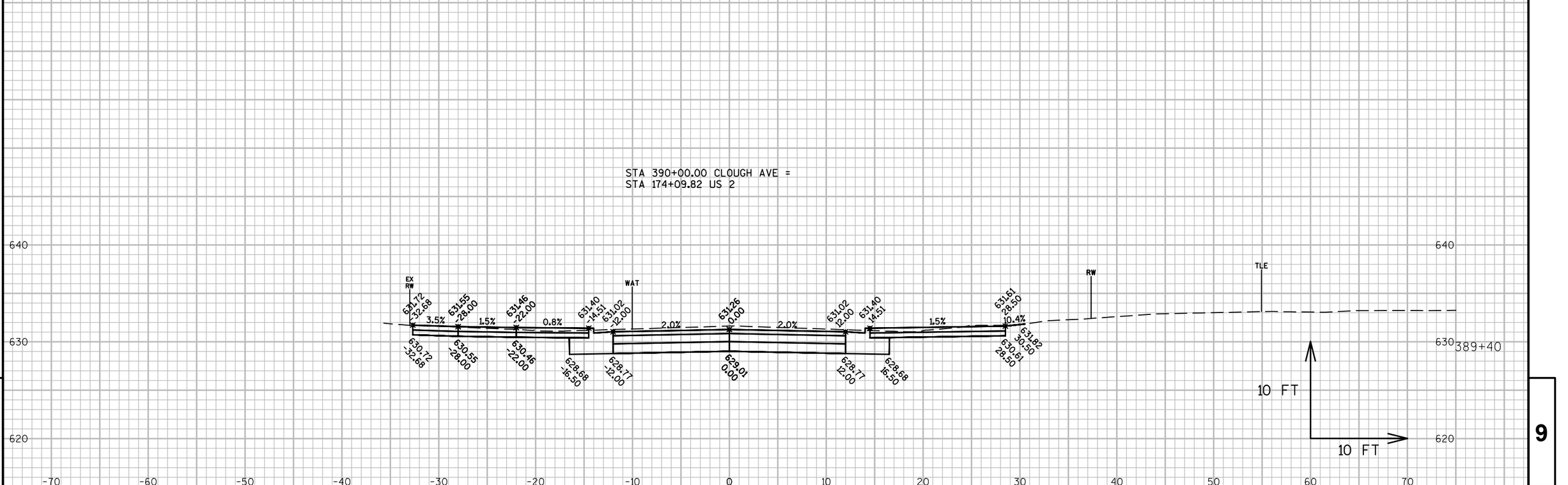
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CLOUGH AVENUE	SHEET 995	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS.DWG
LAYOUT NAME - CLOUGH XS3

PLOT DATE : 10/19/2016 8:44 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STA 390+00.00 CLOUGH AVE =
STA 174+09.82 US 2



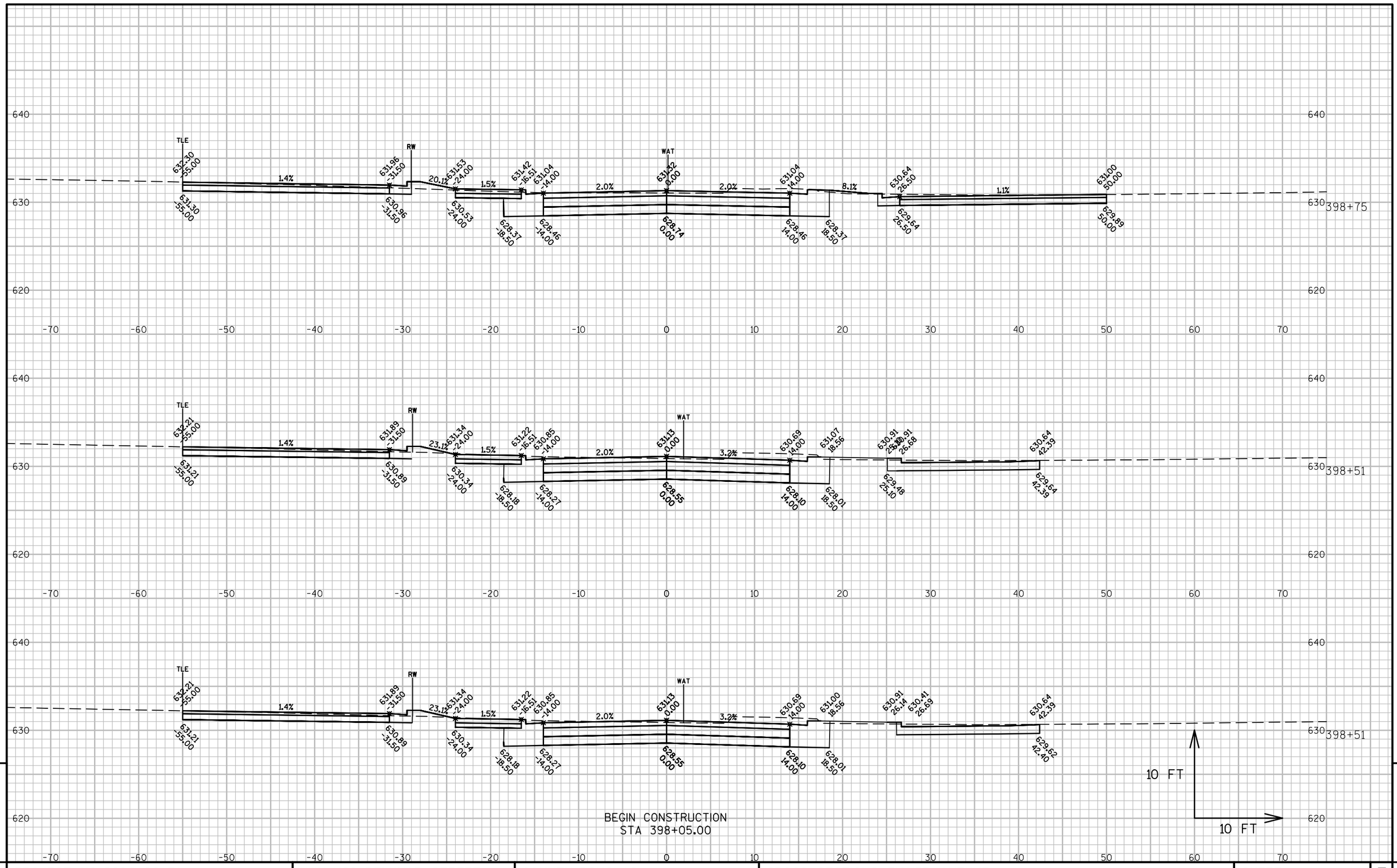
9

9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CLOUGH AVENUE	SHEET 996	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS.DWG
LAYOUT NAME - CLOUGH XS4

PLOT DATE : 10/19/2016 8:49 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

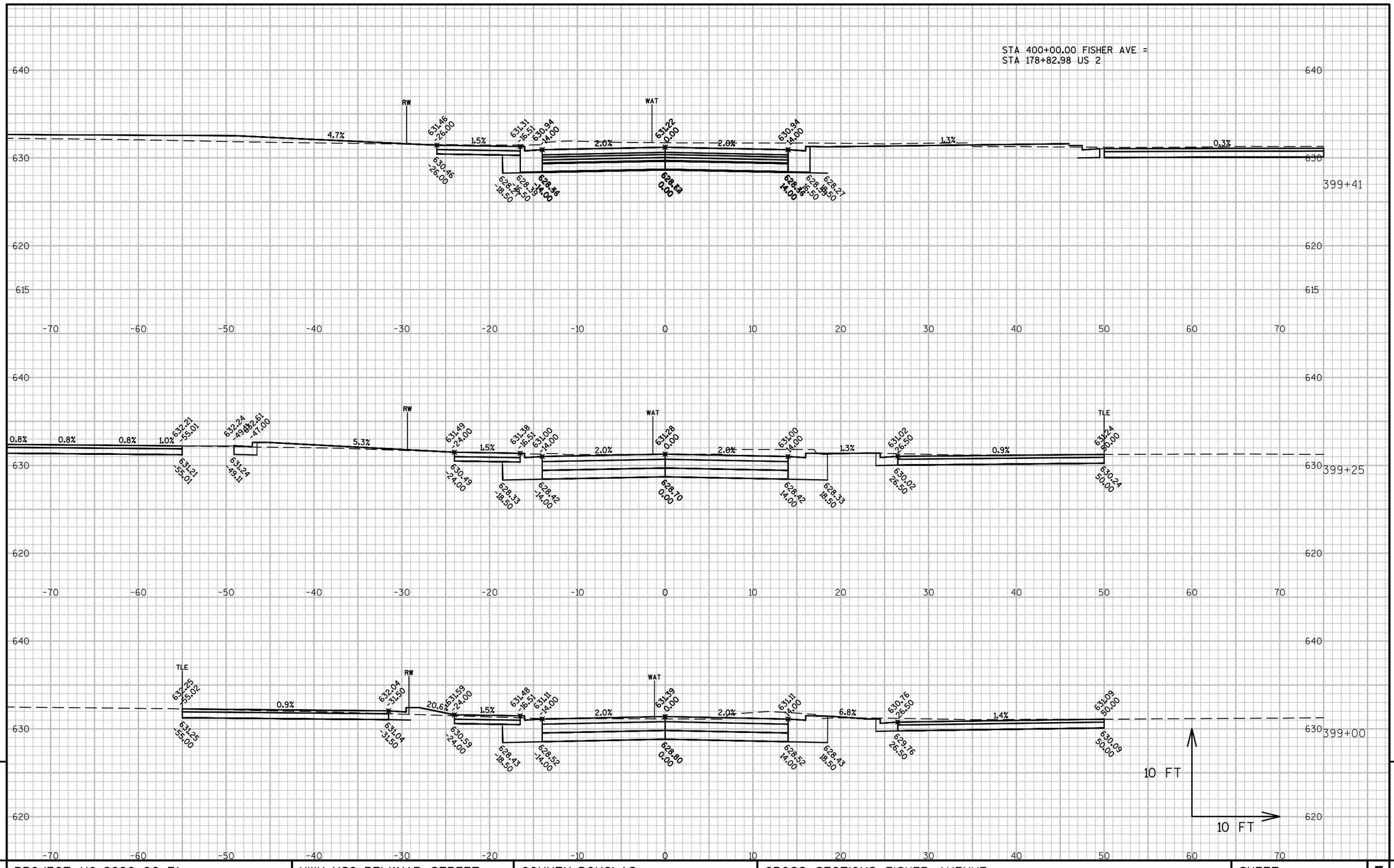
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: FISHER AVENUE	SHEET 997	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - FISHER XS1

PLOT DATE : 10/19/2016 9:19 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 400+00.00 FISHER AVE =
STA 178+82.98 US 2



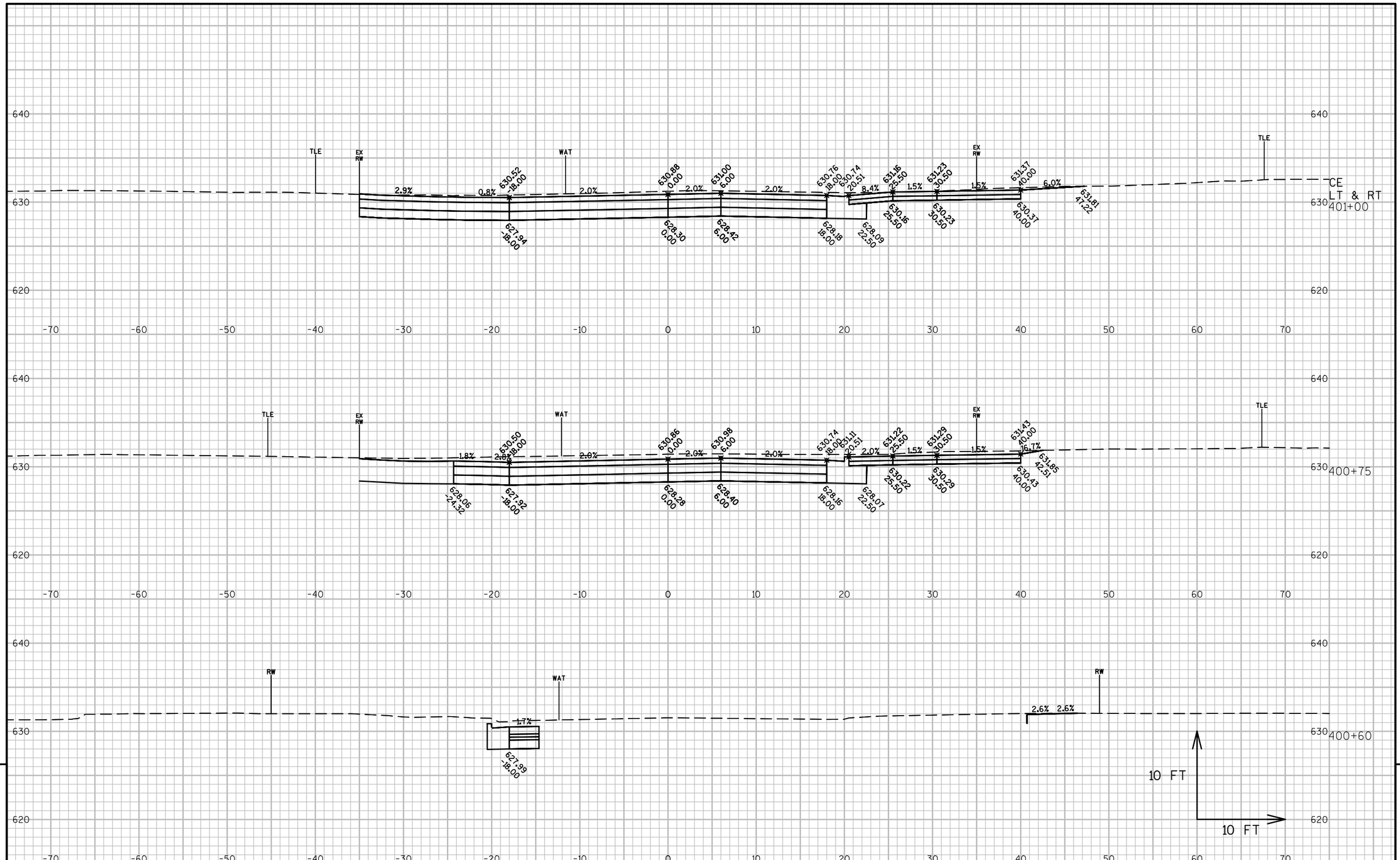
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9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: FISHER AVENUE	SHEET 998	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - FISHER XS2

PLOT DATE : 10/19/2016 9:26 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

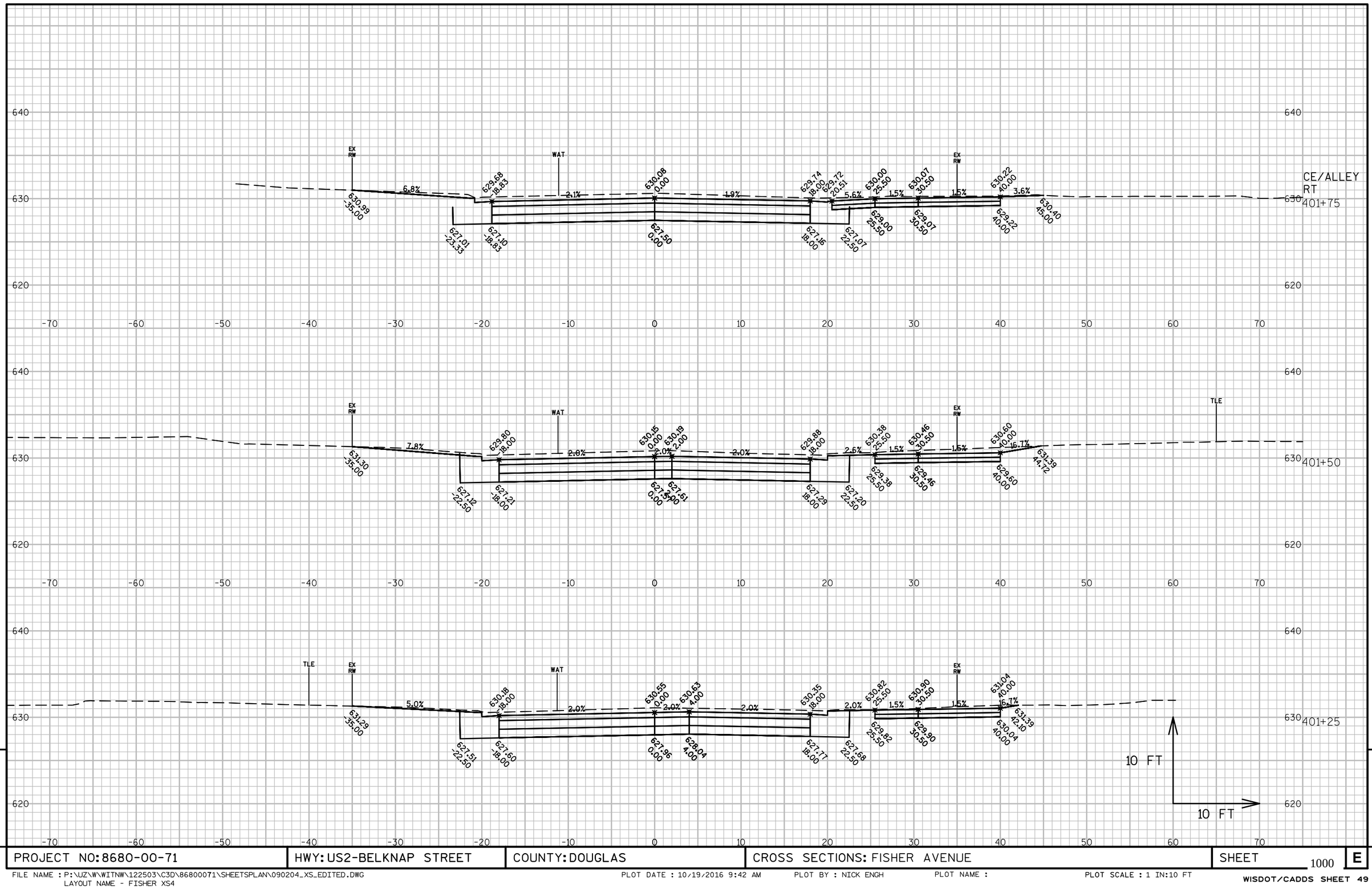


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: FISHER AVENUE	SHEET 999	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - FISHER XS3

PLOT DATE : 10/19/2016 9:37 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

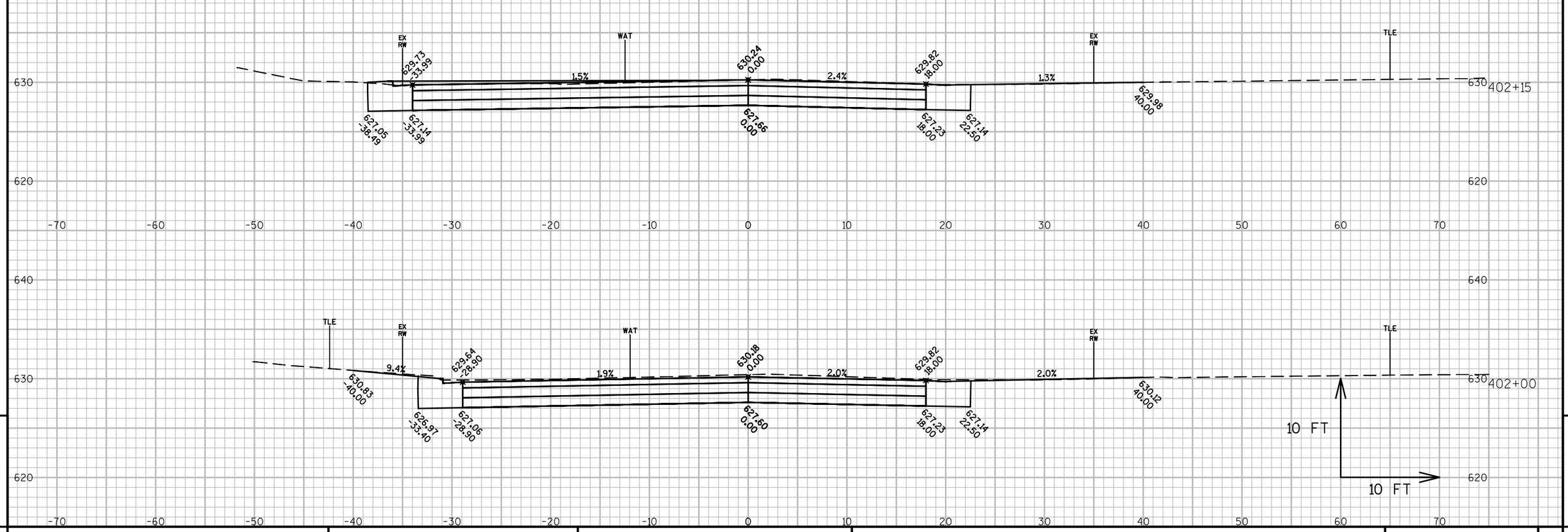
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: FISHER AVENUE	SHEET 1000	E

9

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - FISHER XS4

PLOT DATE : 10/19/2016 9:42 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 402+15.00



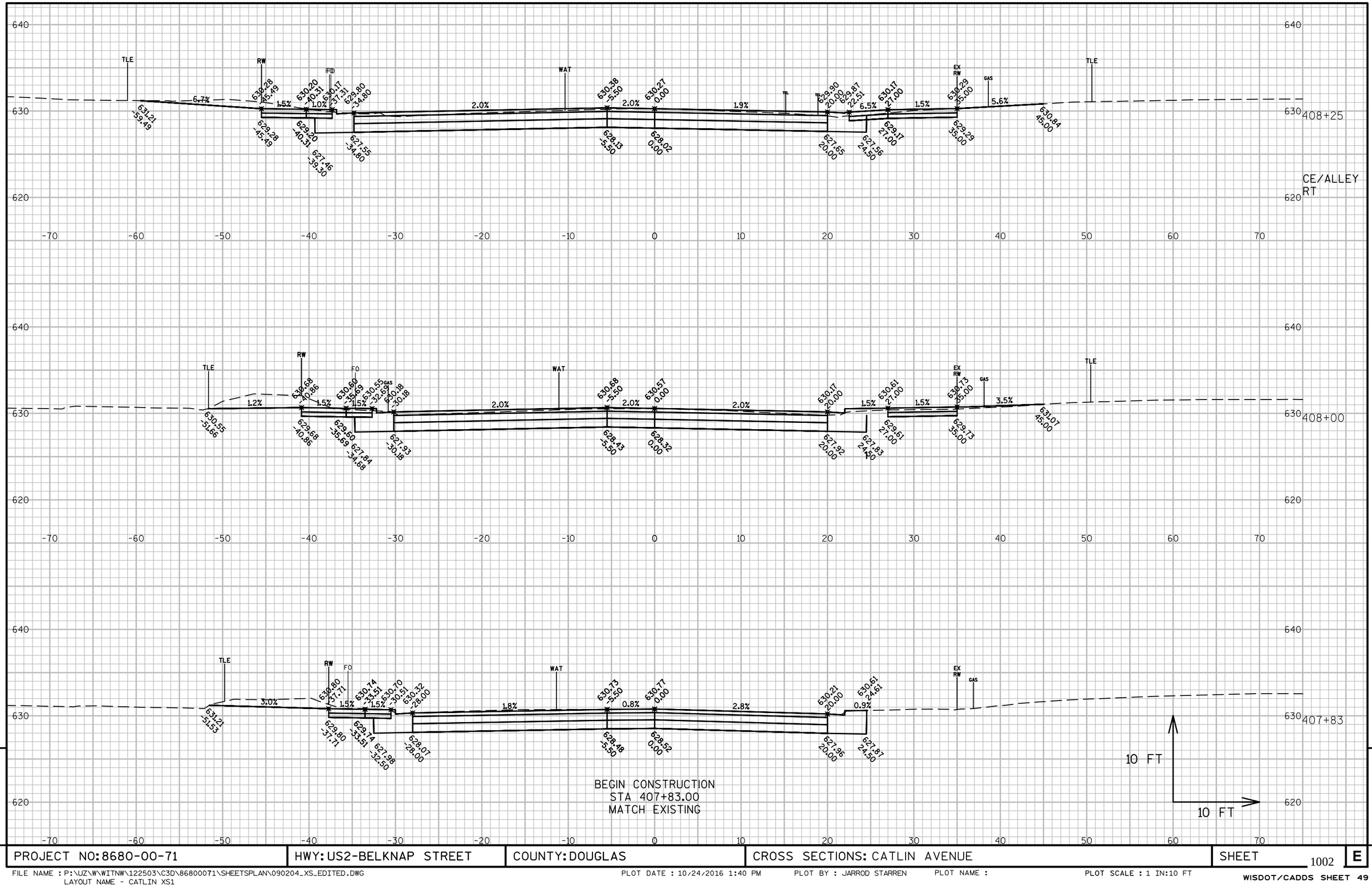
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: FISHER AVENUE	SHEET 1001	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - FISHER XS5

PLOT DATE : 10/19/2016 9:47 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

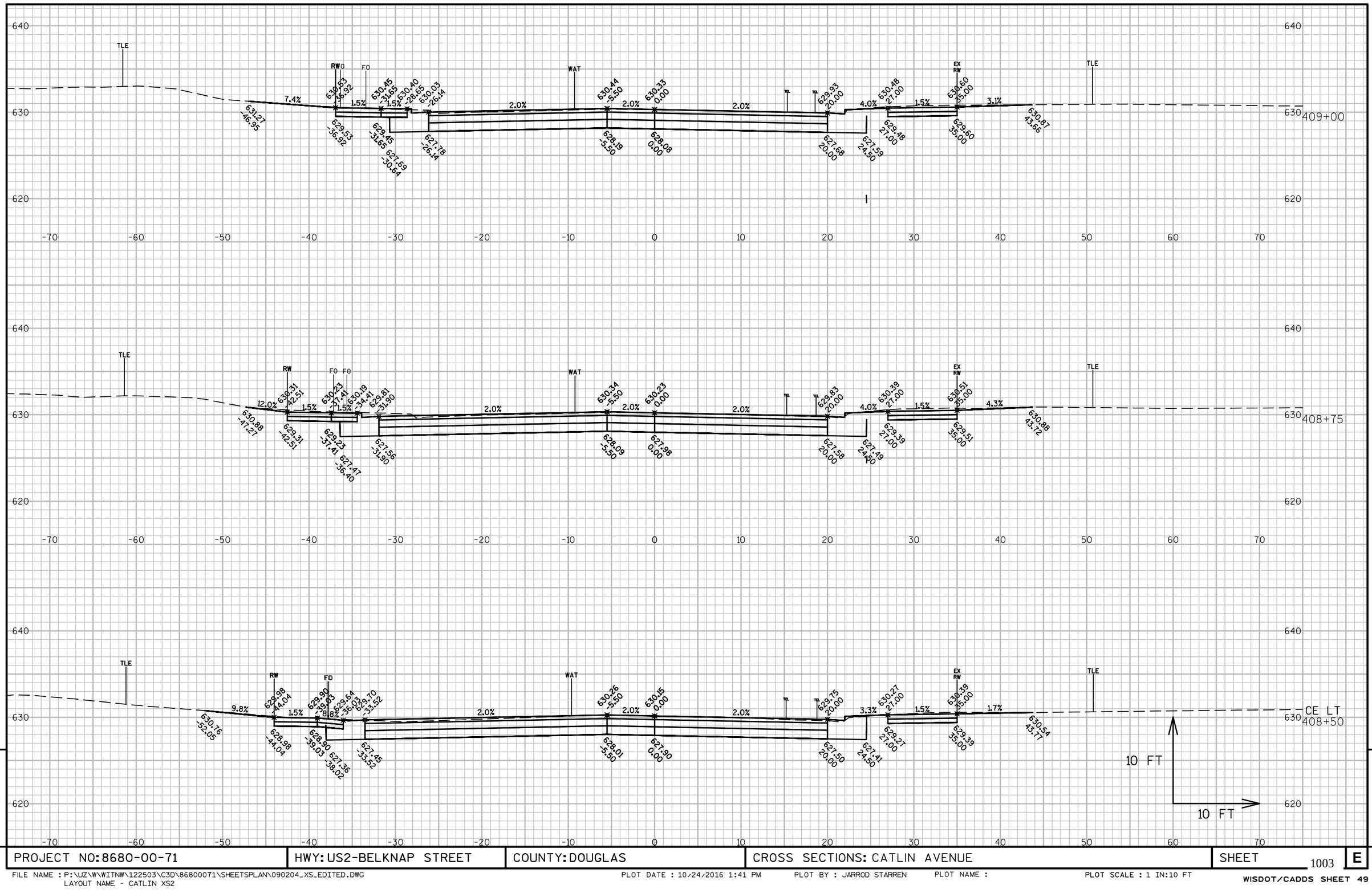


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CATLIN AVENUE	SHEET 1002	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CATLIN XS1

PLOT DATE : 10/24/2016 1:40 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

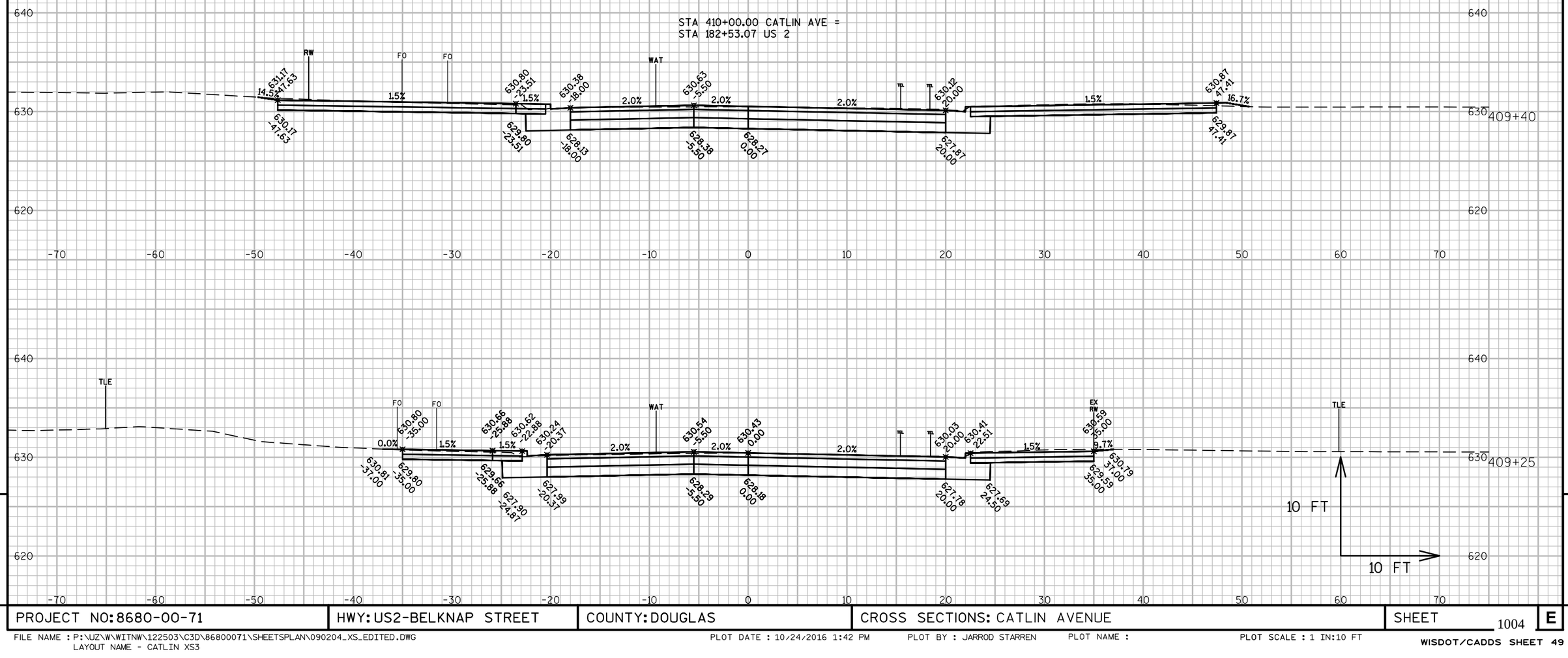
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CATLIN AVENUE	SHEET 1003	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CATLIN XS2

PLOT DATE : 10/24/2016 1:41 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 410+00.00 CATLIN AVE =
STA 182+53.07 US 2

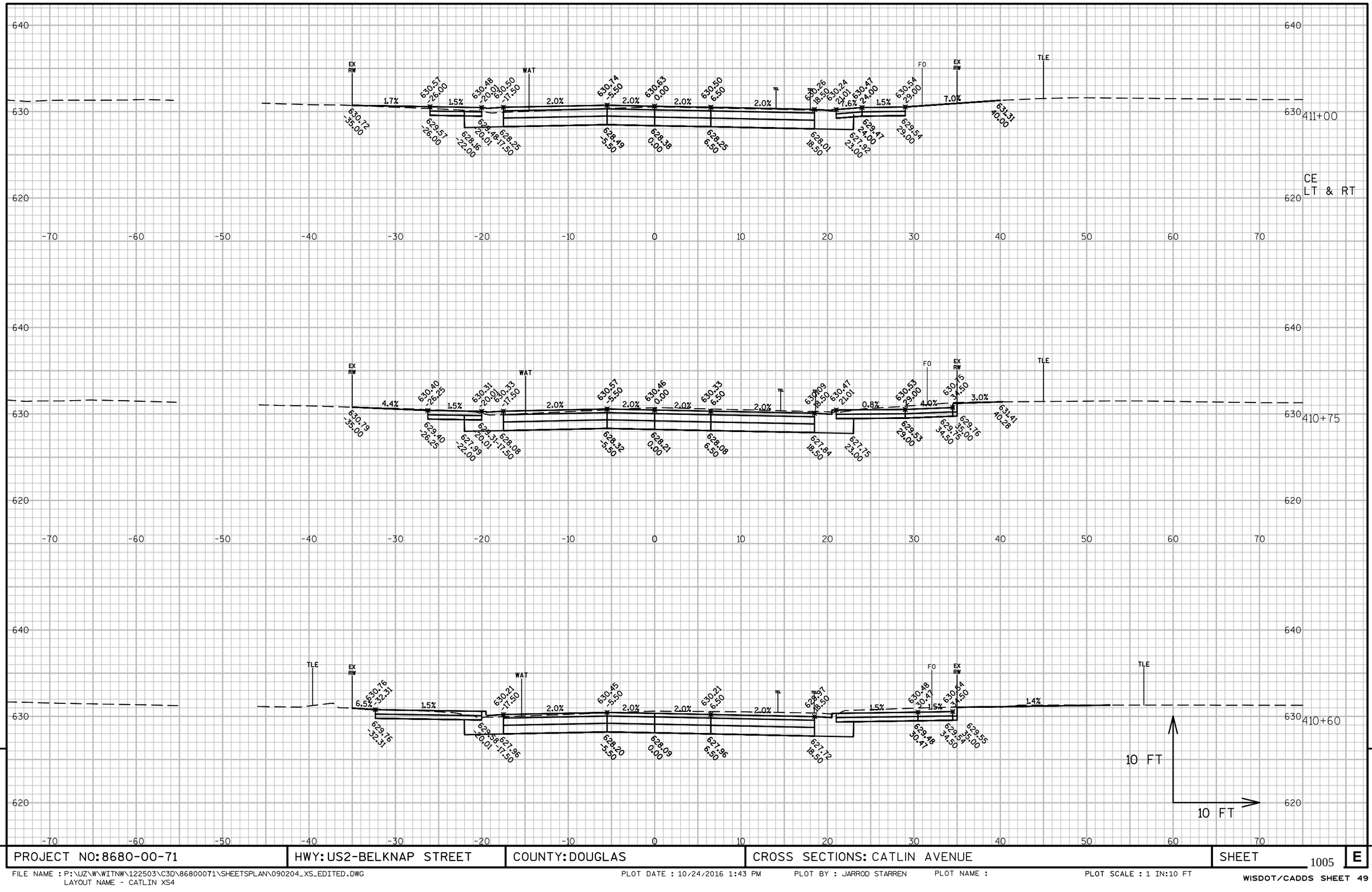


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CATLIN AVENUE	SHEET 1004	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CATLIN XS3

PLOT DATE : 10/24/2016 1:42 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

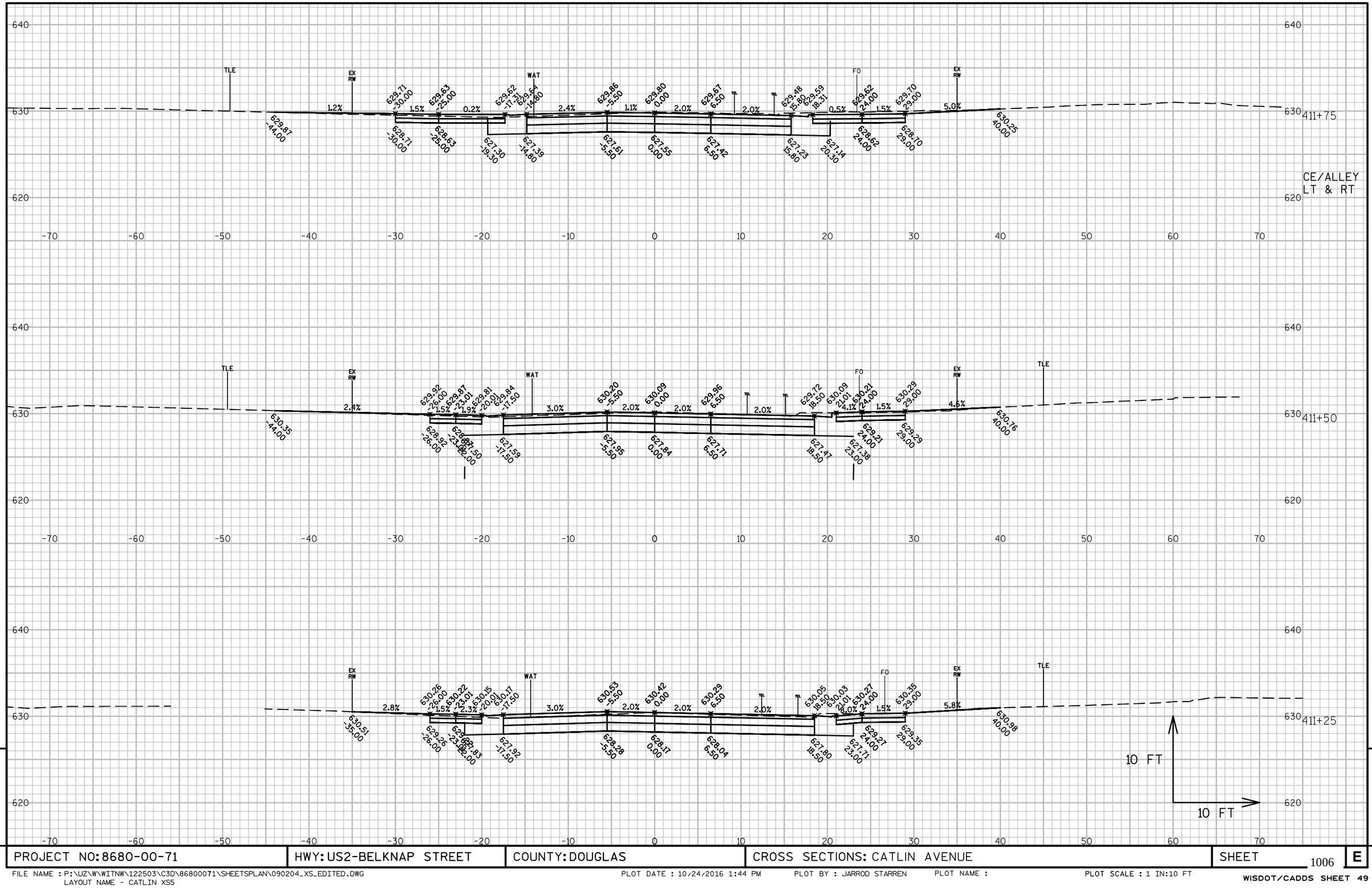


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CATLIN AVENUE	SHEET 1005	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CATLIN XS4

PLOT DATE : 10/24/2016 1:43 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

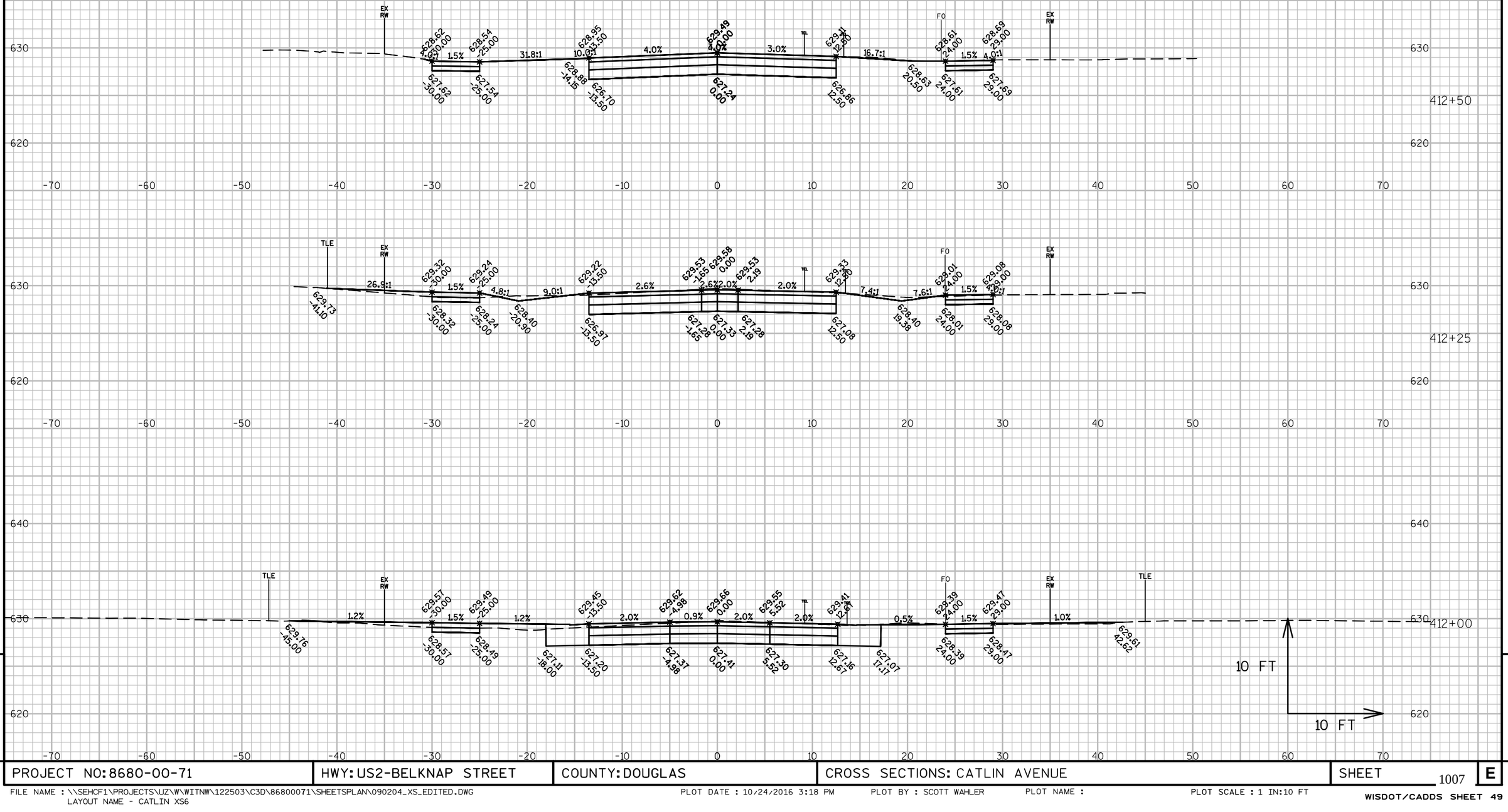
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CATLIN AVENUE	SHEET 1006	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CATLIN XS5

PLOT DATE : 10/24/2016 1:44 PM PLOT BY : JARROD STARREN PLOT NAME : PLOT SCALE : 1 IN:10 FT

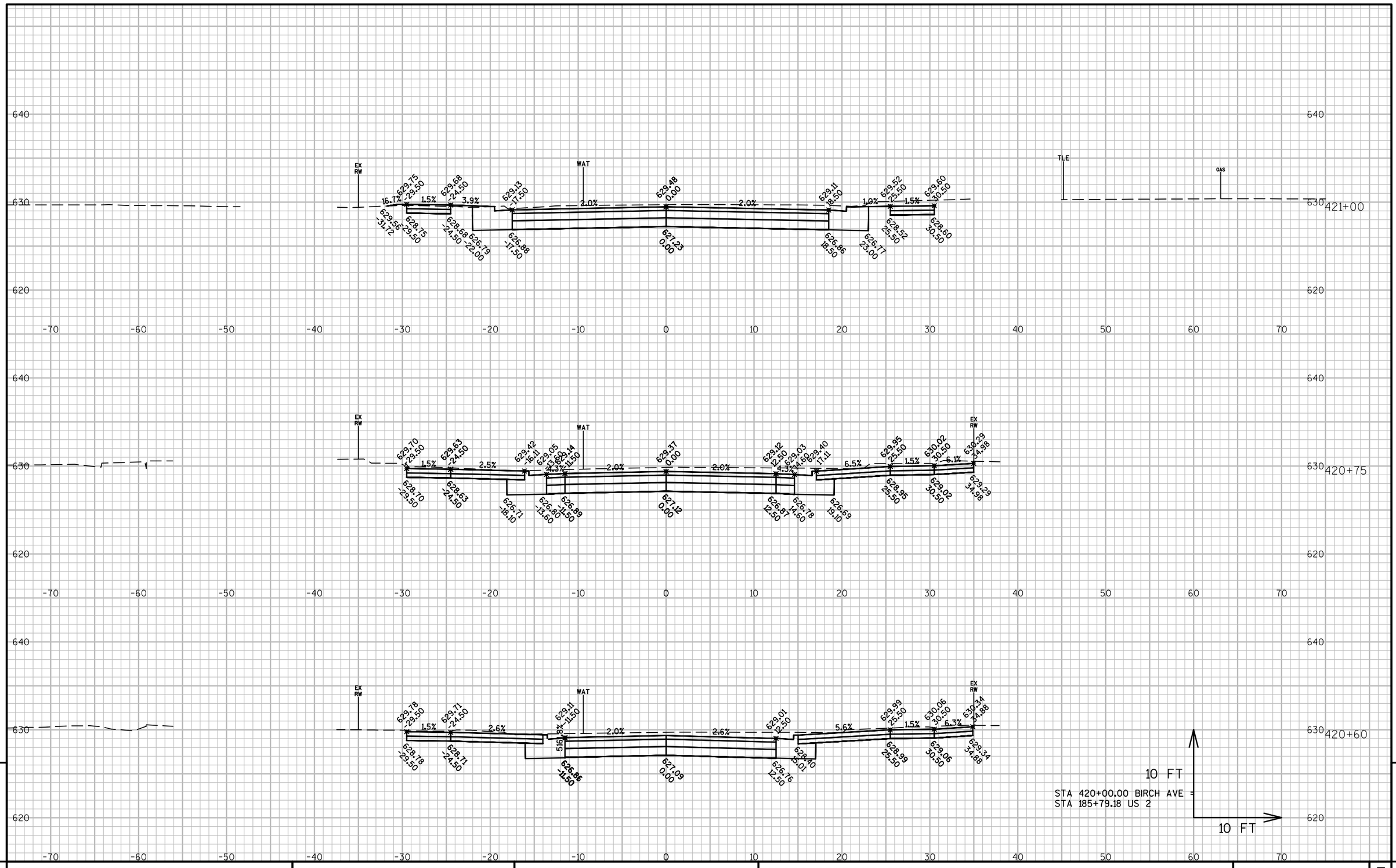
WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 412+50.00



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CATLIN AVENUE	SHEET 1007	E

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CATLIN XS6
PLOT DATE : 10/24/2016 3:18 PM PLOT BY : SCOTT WAHLER PLOT NAME : PLOT SCALE : 1 IN:10 FT

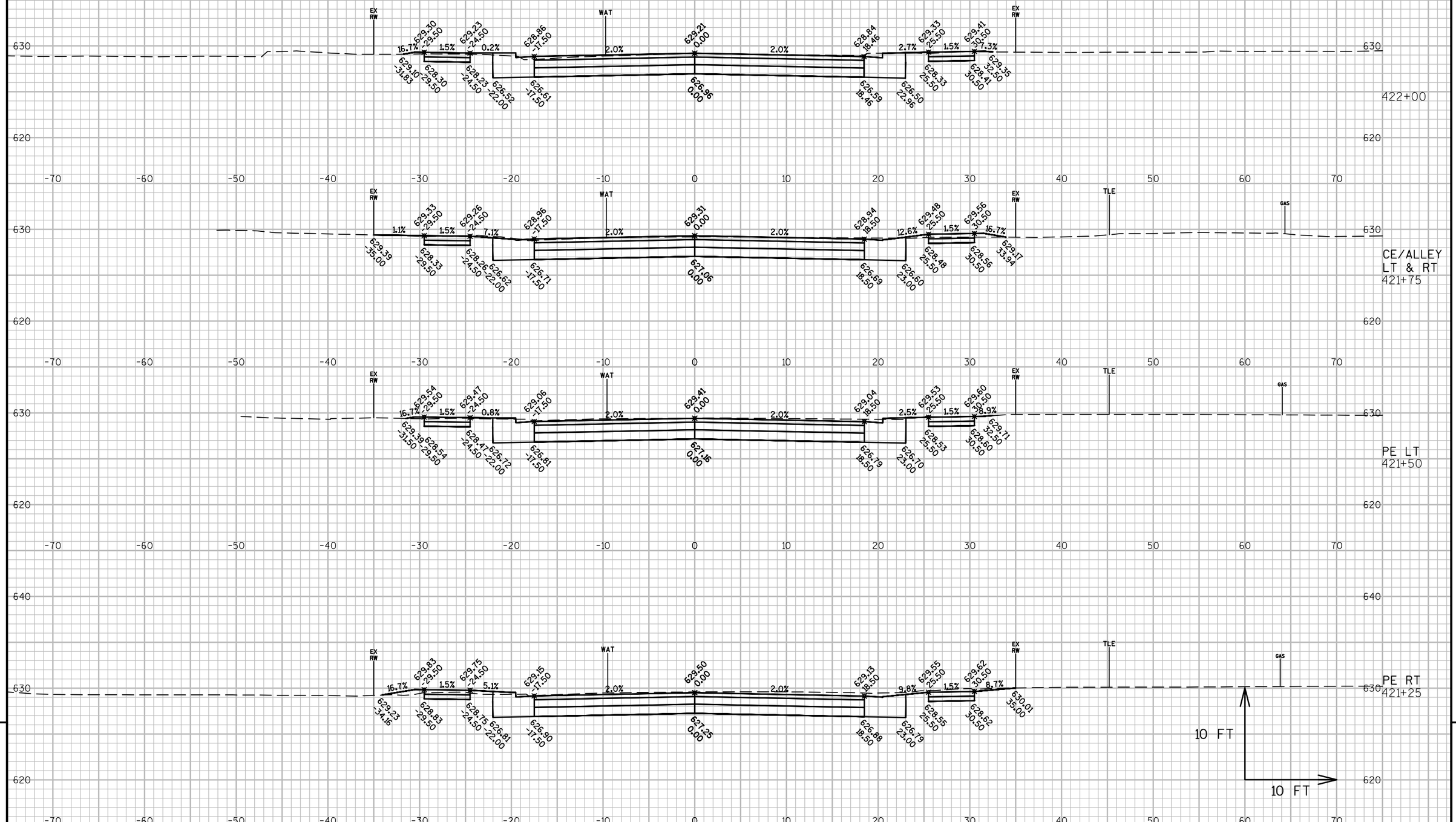


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BIRCH AVENUE	SHEET 1008	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - BIRCH XS1

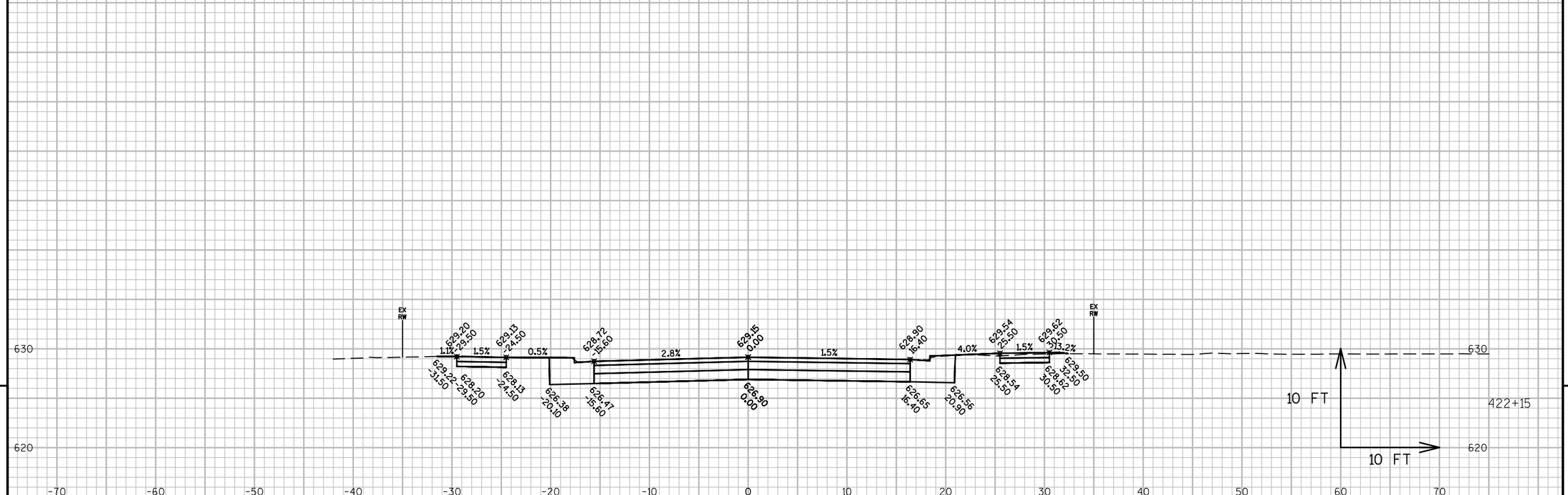
PLOT DATE : 10/19/2016 10:30 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 422+15.00



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BIRCH AVENUE	SHEET 1009	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - BIRCH XS2
PLOT DATE : 10/19/2016 10:42 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

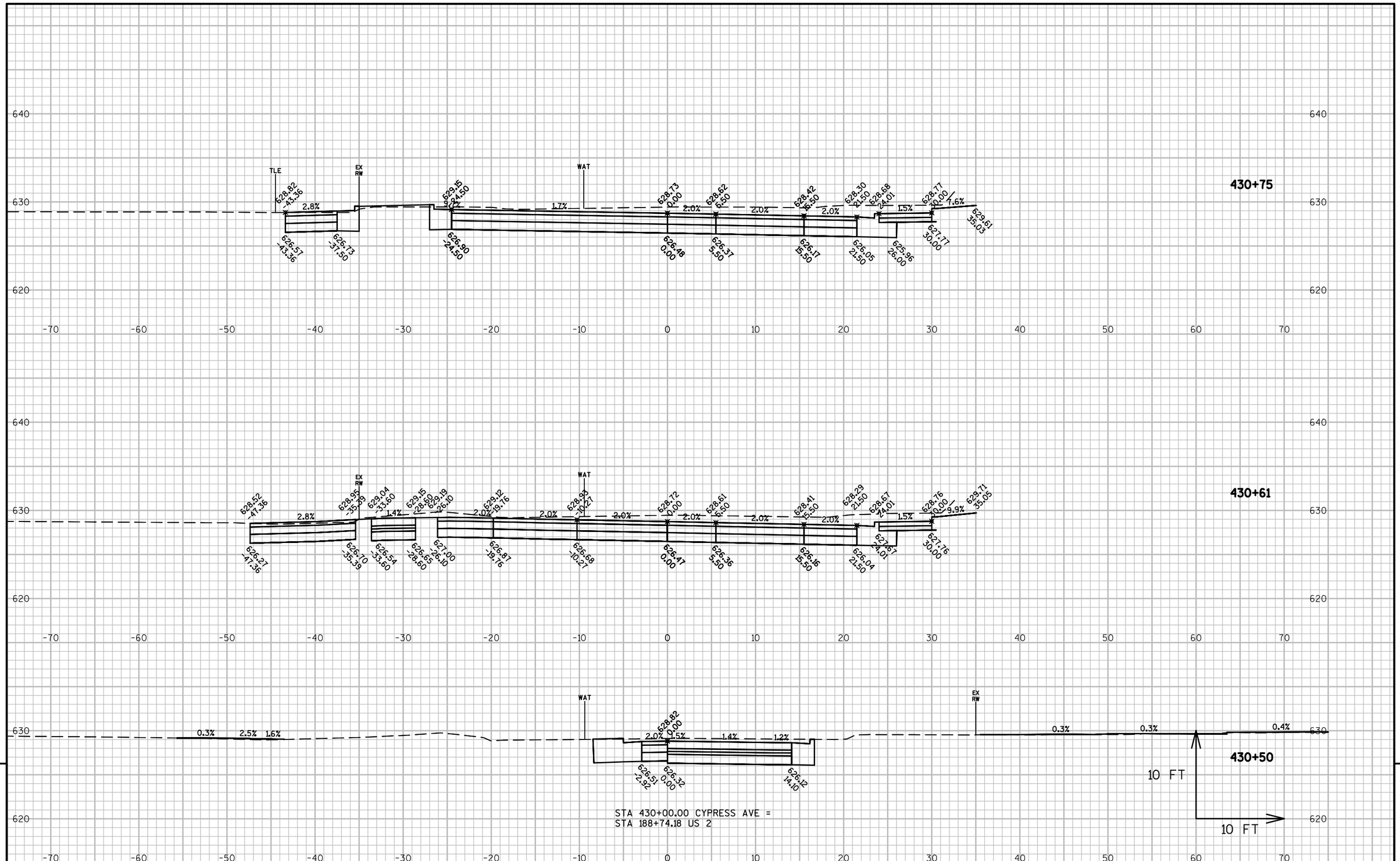
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: BIRCH AVENUE	SHEET 1010	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - BIRCH XS3

PLOT DATE : 10/19/2016 10:48 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

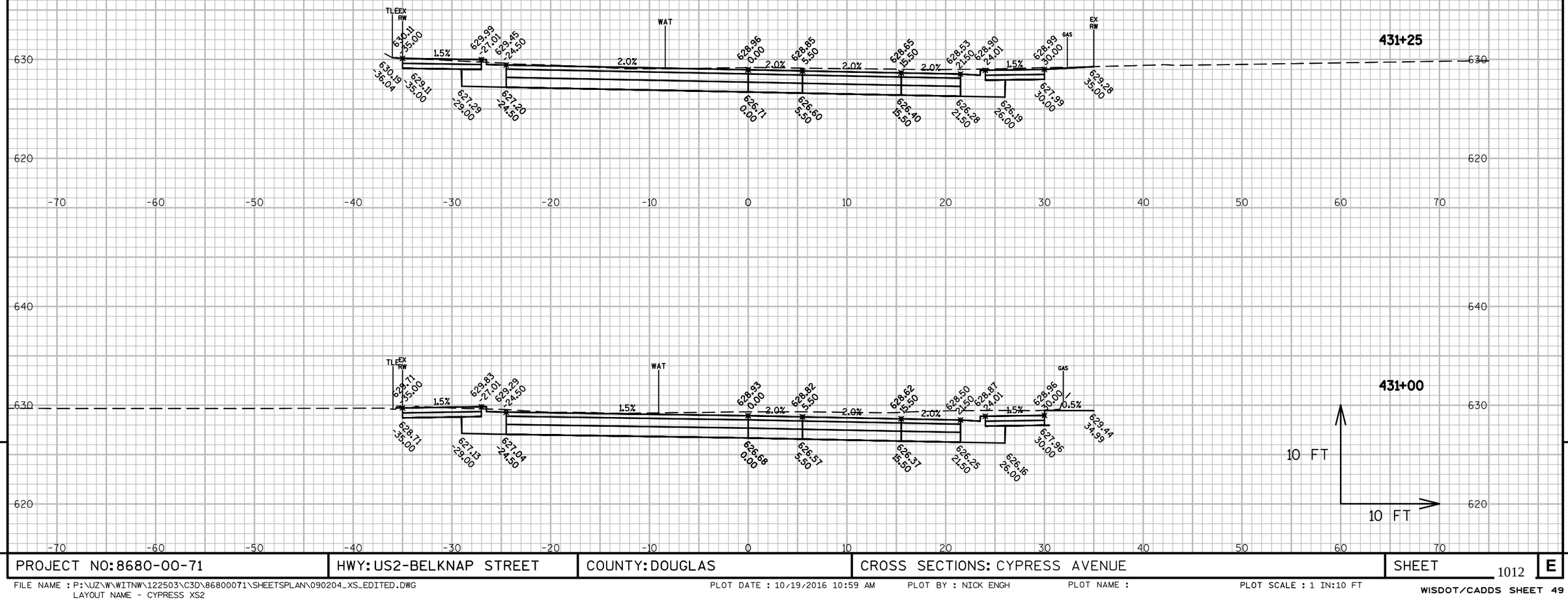
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CYPRESS AVENUE	SHEET 1011	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CYPRESS XS1

PLOT DATE : 10/19/2016 10:56 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

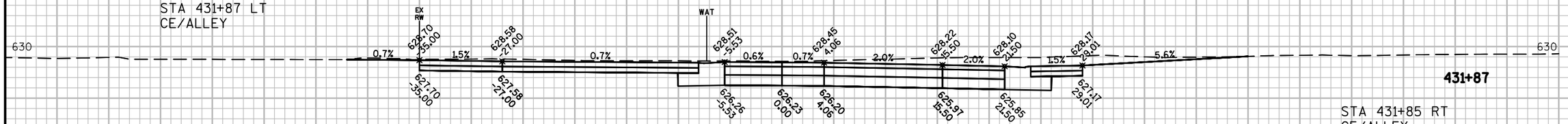
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CYPRESS AVENUE	SHEET 1012	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CYPRESS XS2

PLOT DATE : 10/19/2016 10:59 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

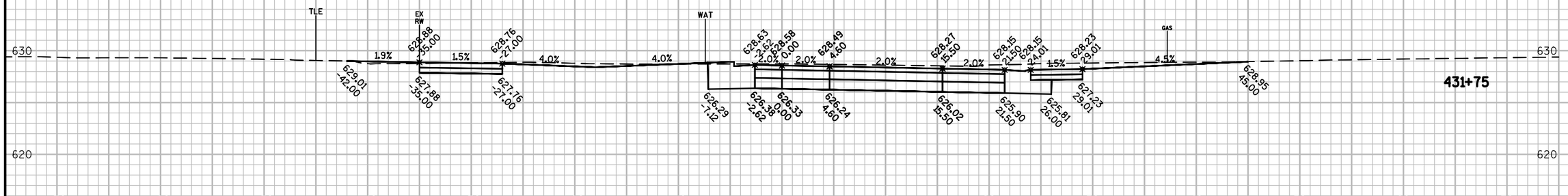
WISDOT/CADDS SHEET 49

STA 431+87 LT
CE/ALLEY

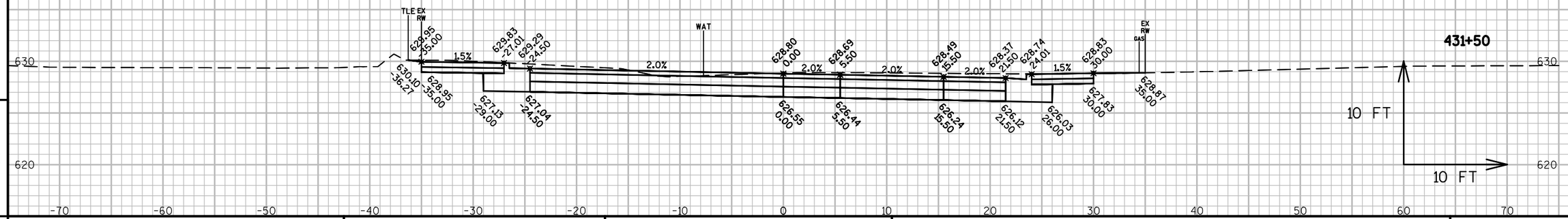


431+87

STA 431+85 RT
CE/ALLEY



431+75



431+50

10 FT
10 FT

9

9

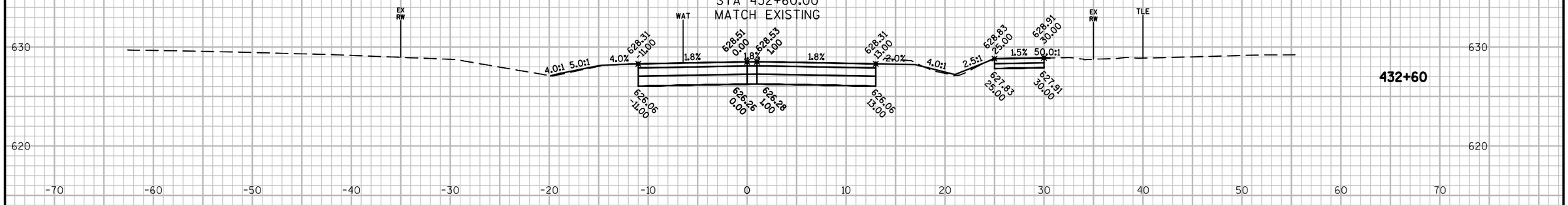
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CYPRESS AVENUE	SHEET 1013	E

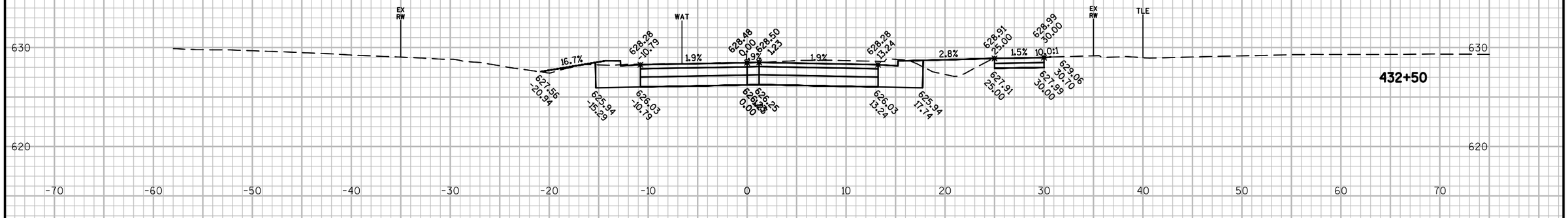
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CYPRESS XS3

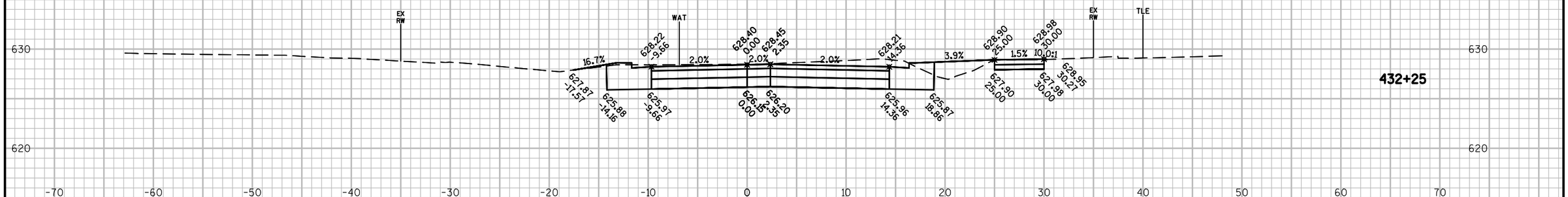
PLOT DATE : 10/19/2016 11:04 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

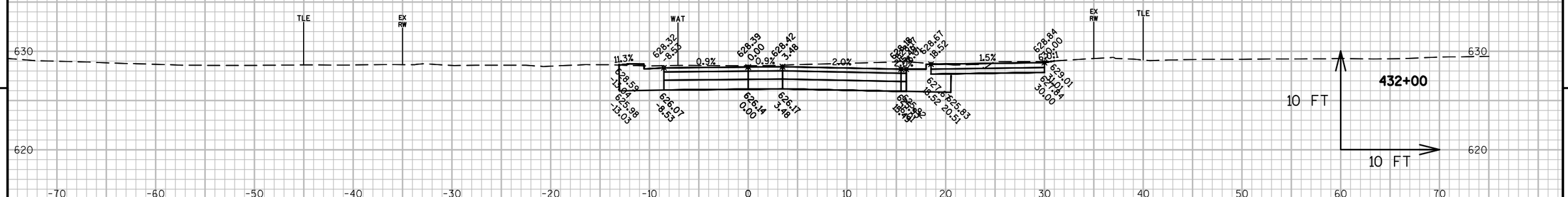
WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 432+60.00
MATCH EXISTING









9

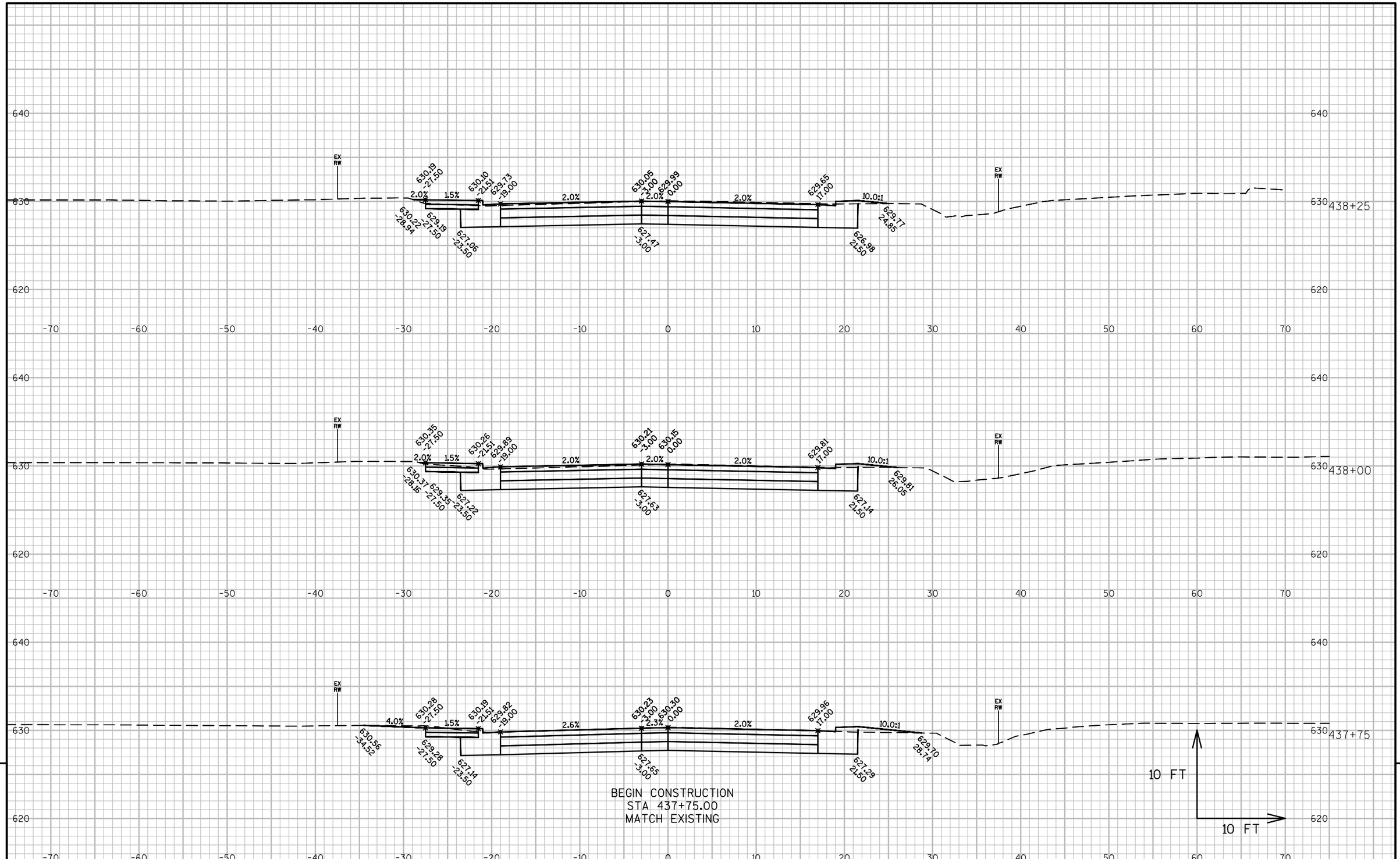
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CYPRESS AVENUE	SHEET 1014	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CYPRESS XS4

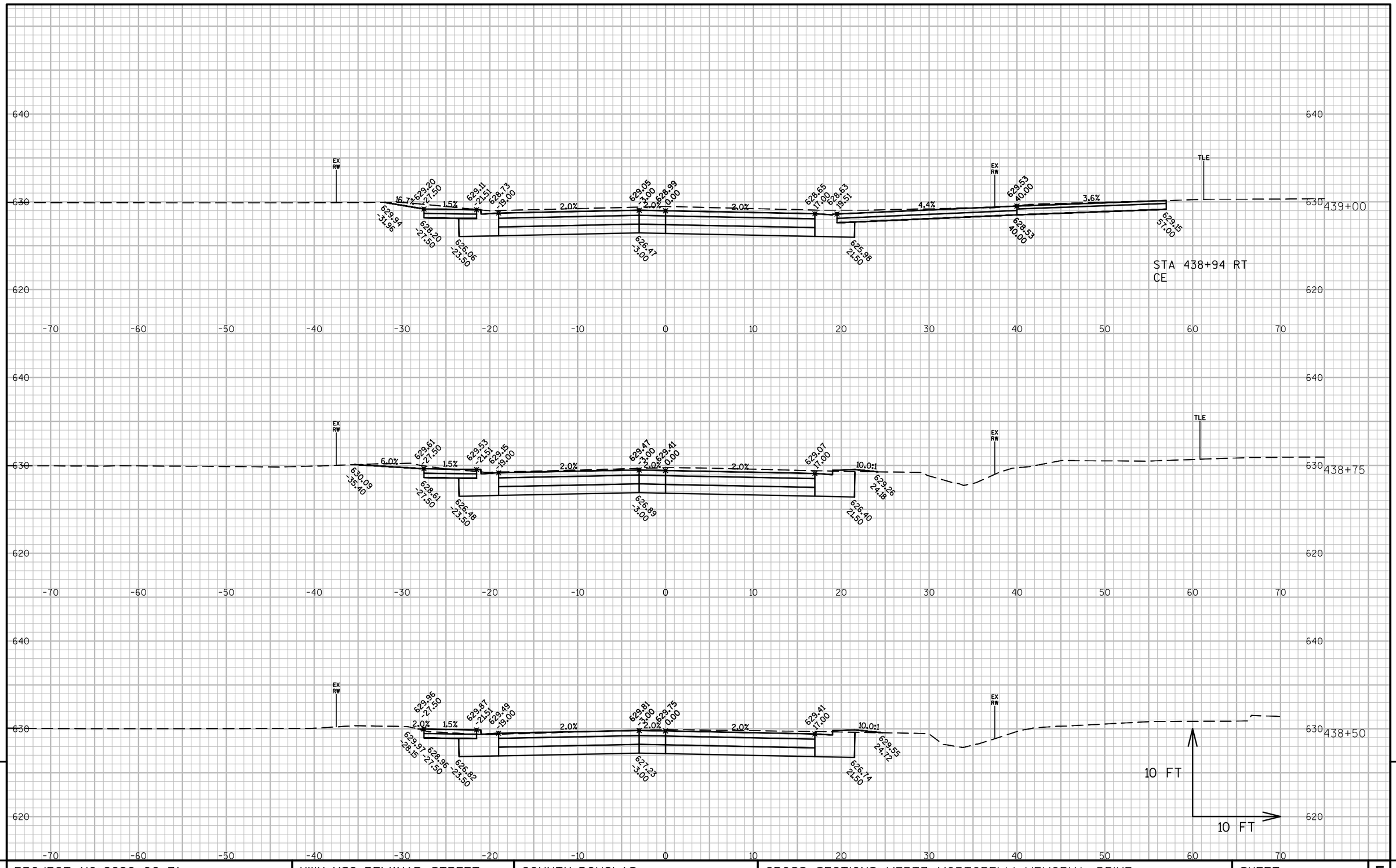
PLOT DATE : 10/19/2016 11:23 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: MERTZ MORTORELLI MEMORIAL DRIVE	SHEET 1015	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - MORTERELLI XS1
PLOT DATE : 10/19/2016 11:28 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

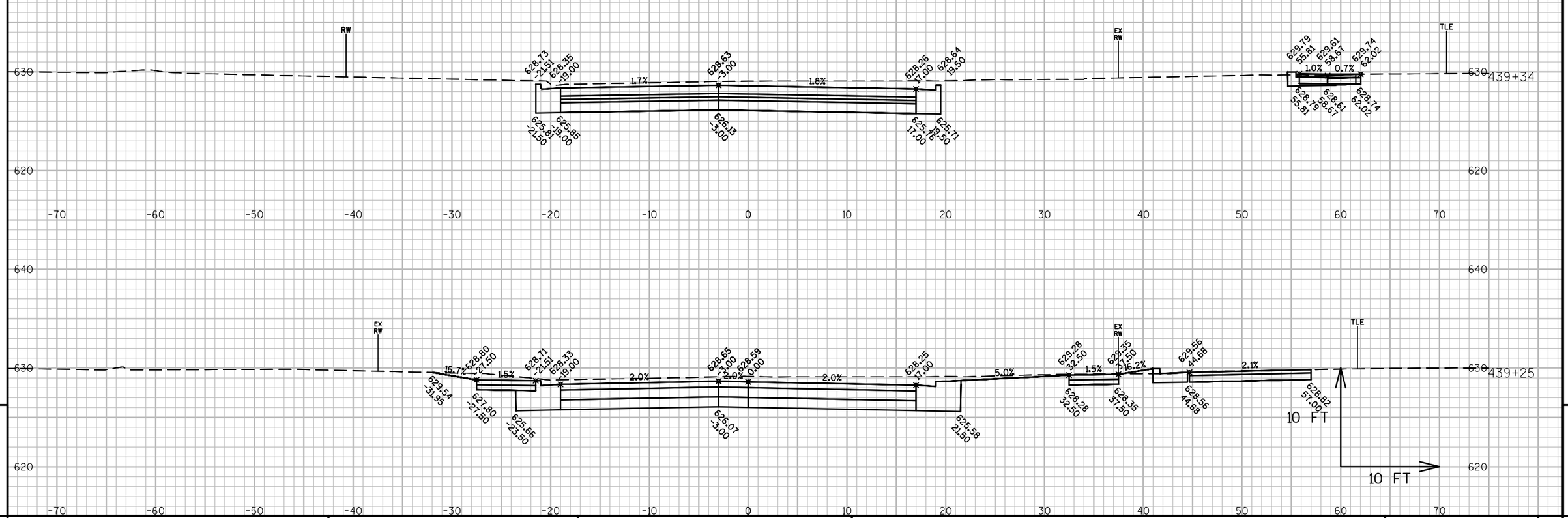


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: MERTZ MORTORELLI MEMORIAL DRIVE	SHEET 1016	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - MORTERELLI XS2

PLOT DATE : 10/19/2016 11:31 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 440+00.00 MORTORELLI MEMORIAL DR =
STA 189+15.01 US 2



9

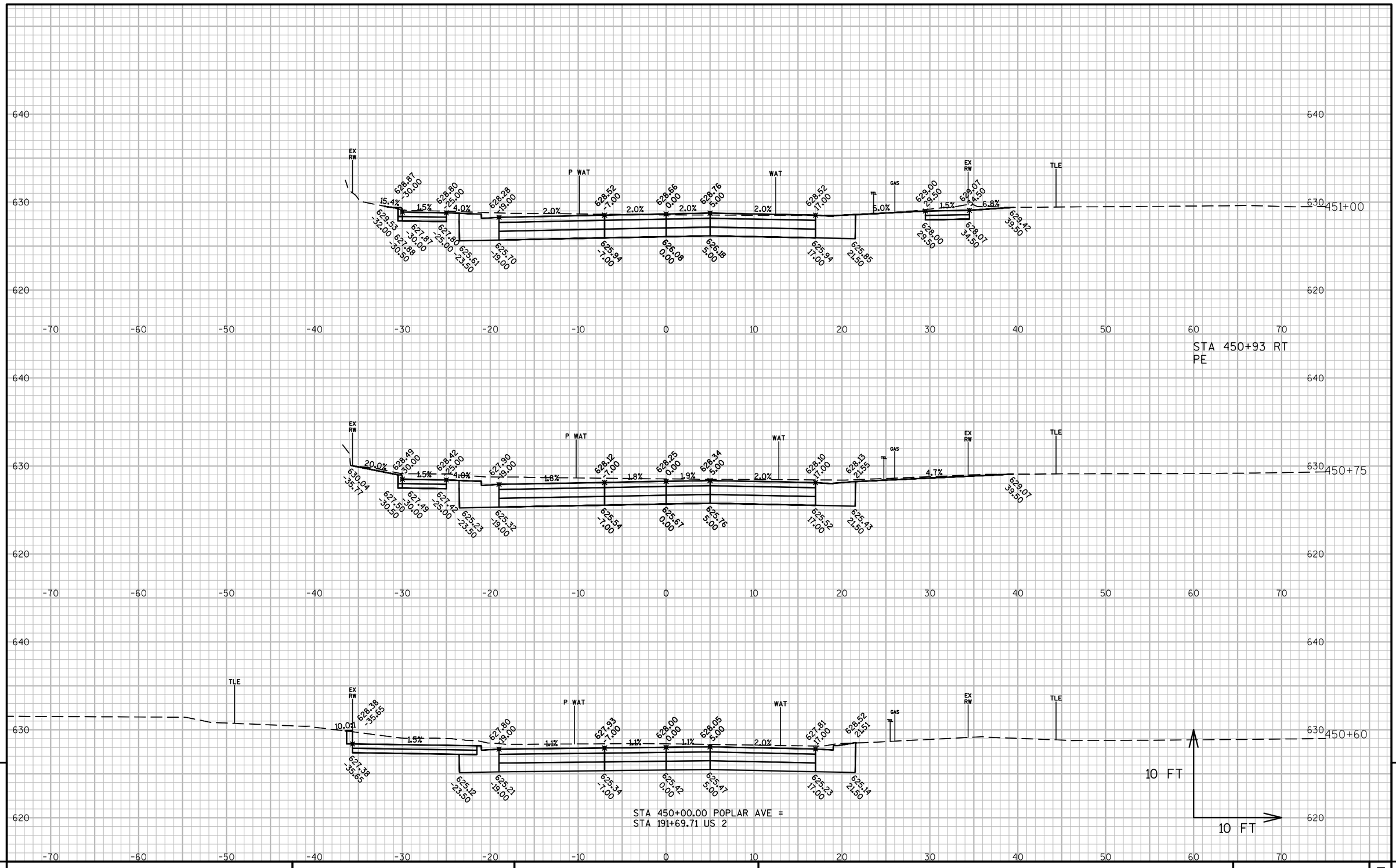
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: MERTZ MORTORELLI MEMORIAL DRIVE	SHEET 1017	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - MORTERELLI XS3

PLOT DATE : 10/19/2016 11:35 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

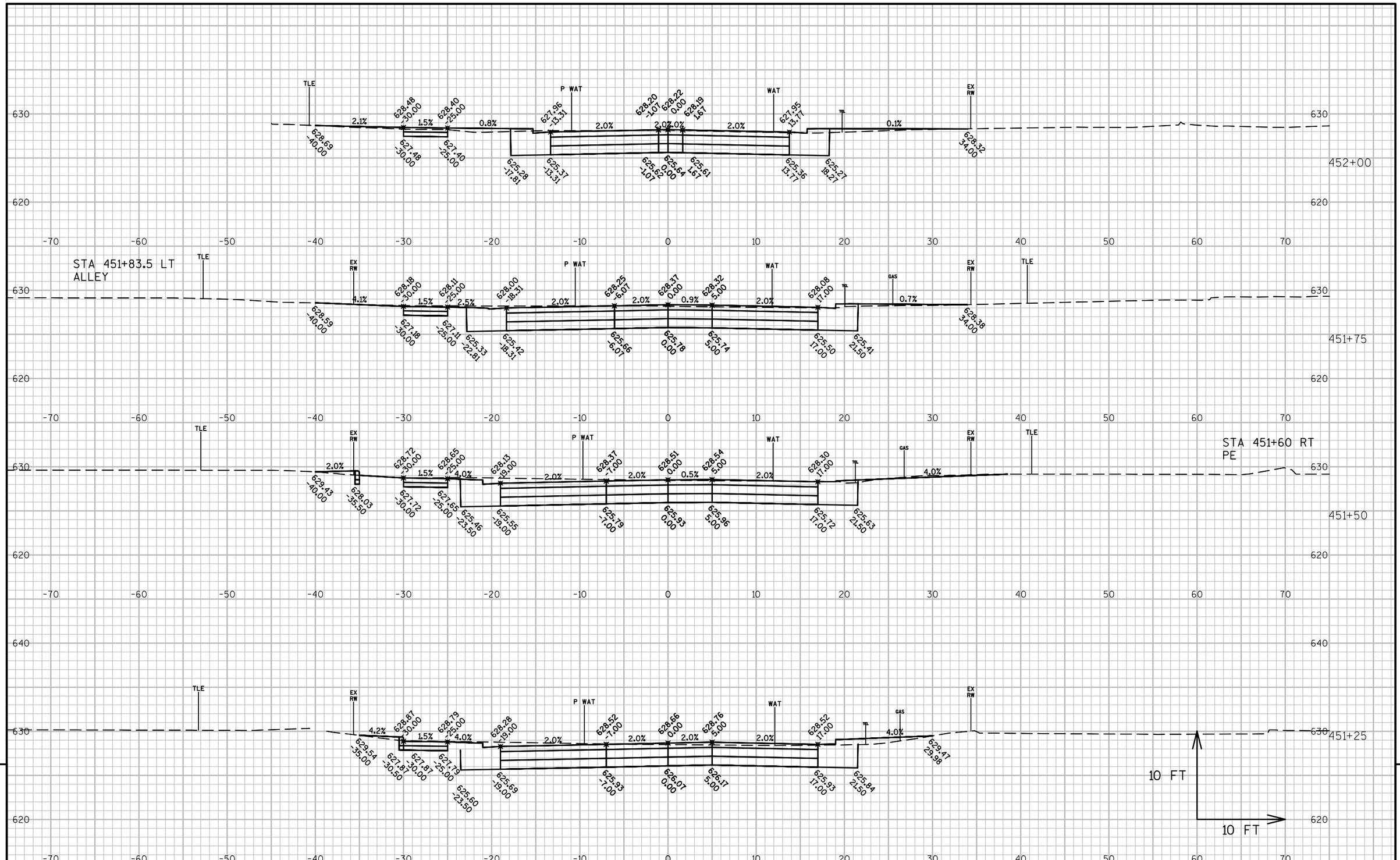
WISDOT/CADDS SHEET 49



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: POPLAR AVENUE	SHEET 1018	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - POPLAR XS1

PLOT DATE : 10/19/2016 11:45 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

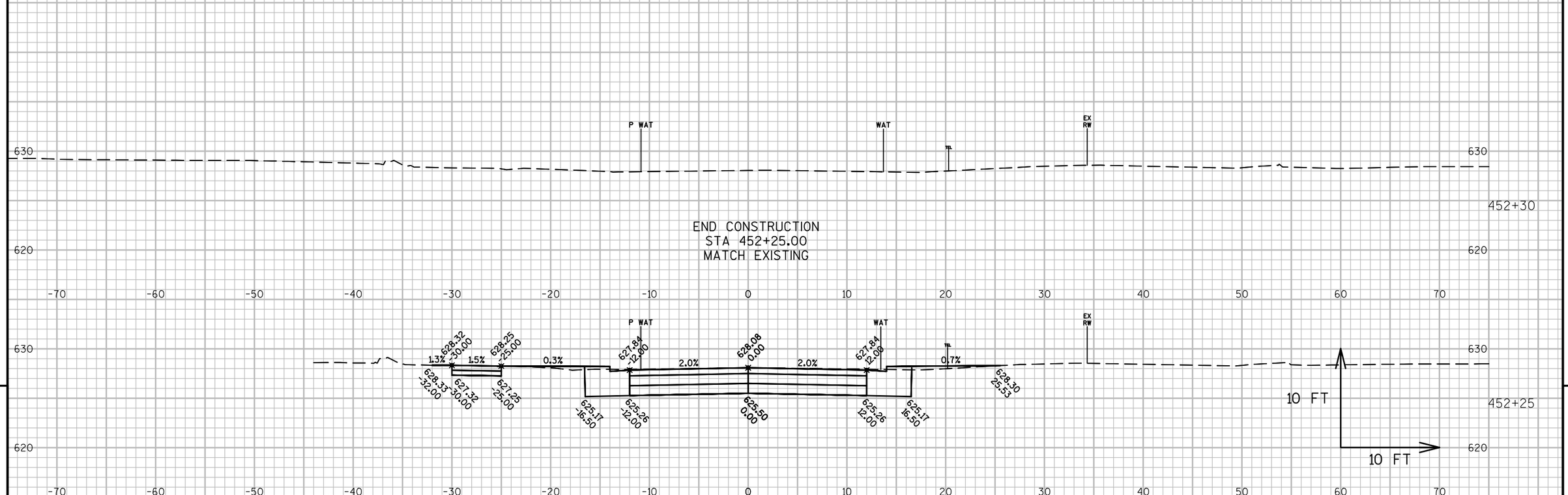
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: POPLAR AVENUE	SHEET 1019	E

9

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - POPLAR XS2

PLOT DATE : 10/19/2016 11:55 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



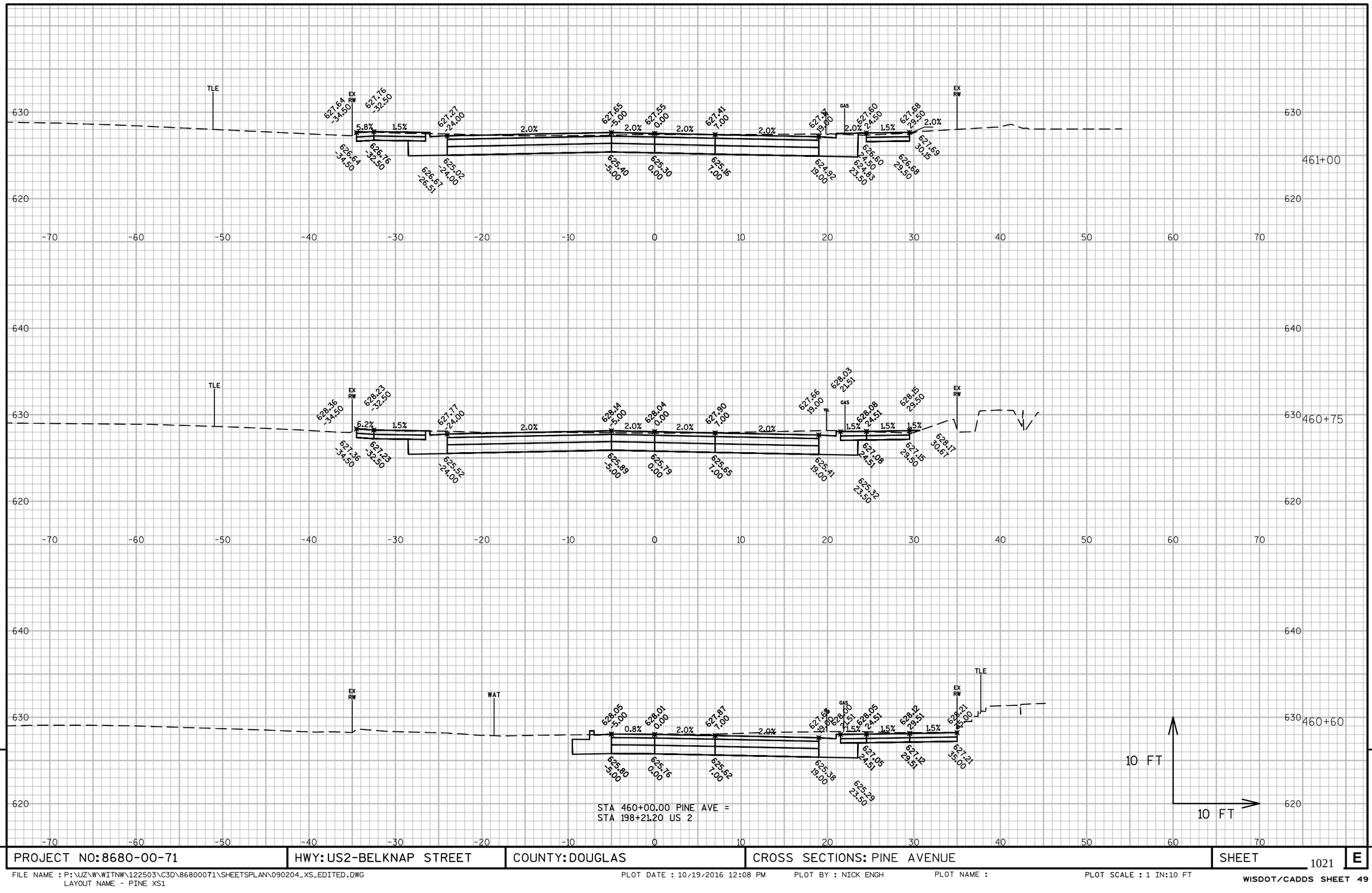
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9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: POPLAR AVENUE	SHEET 1020	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - POPLAR XS3

PLOT DATE : 10/19/2016 11:57 AM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

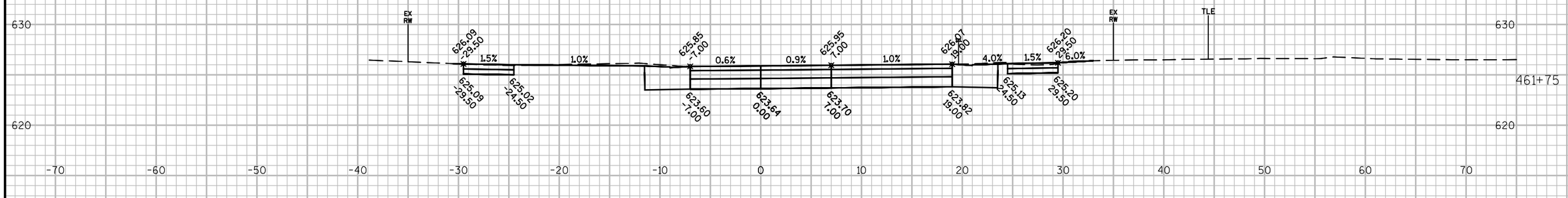
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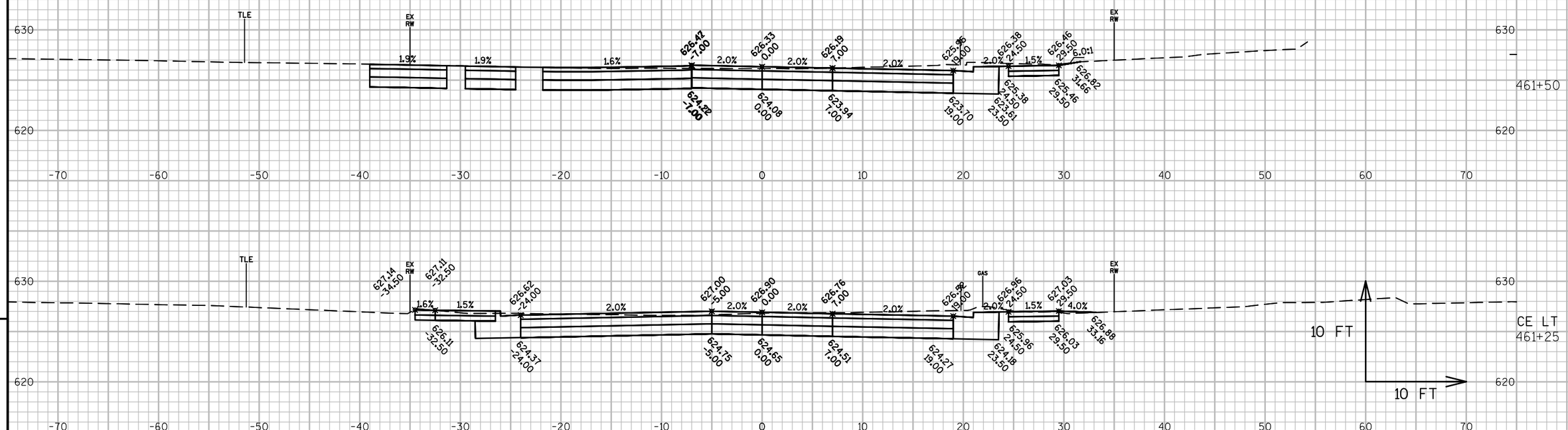
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: PINE AVENUE	SHEET 1021	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - PINE XS1

PLOT DATE : 10/19/2016 12:08 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 461+75.00
MATCH EXISTING





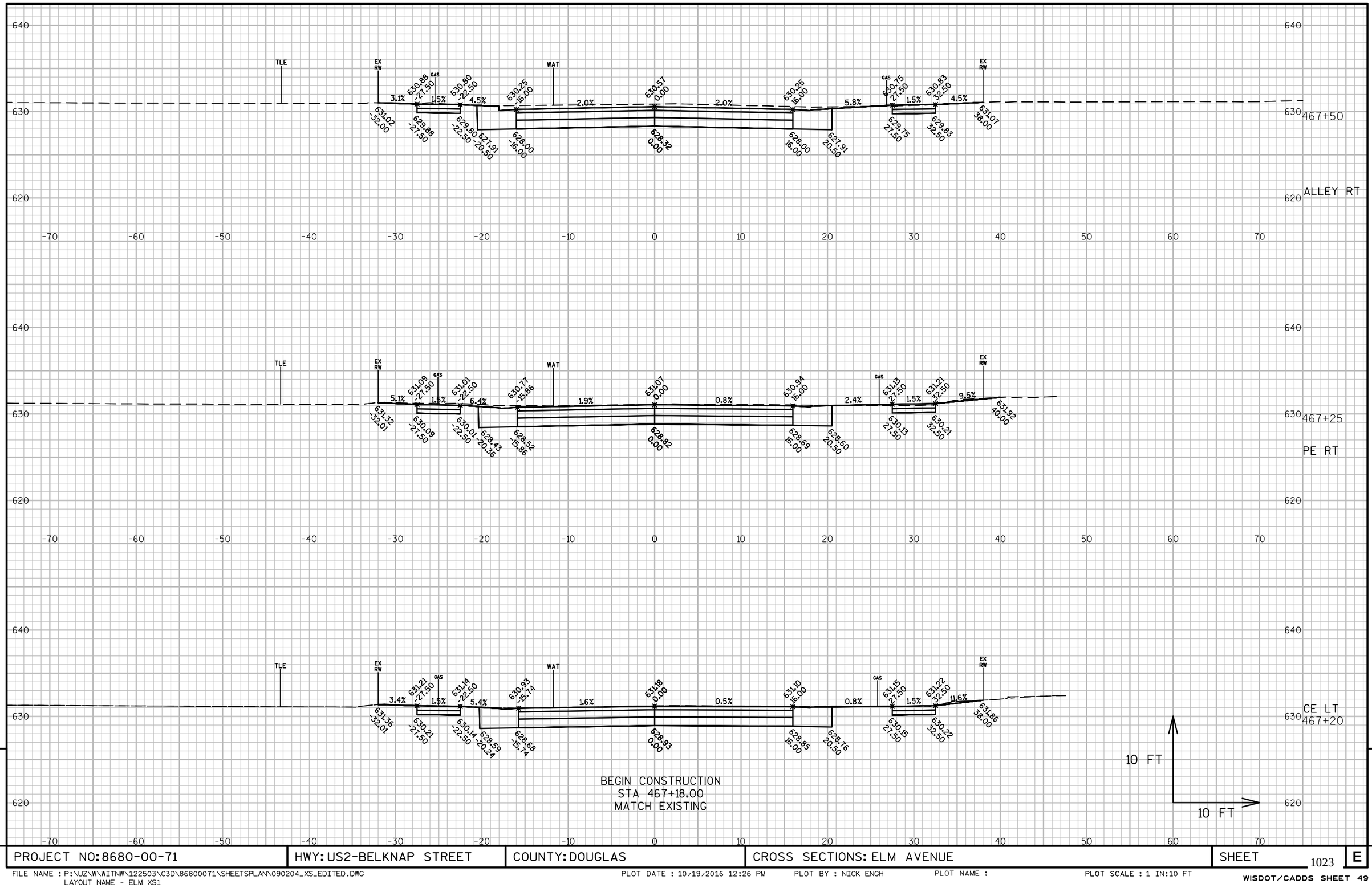
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9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: PINE AVENUE	SHEET 1022	E

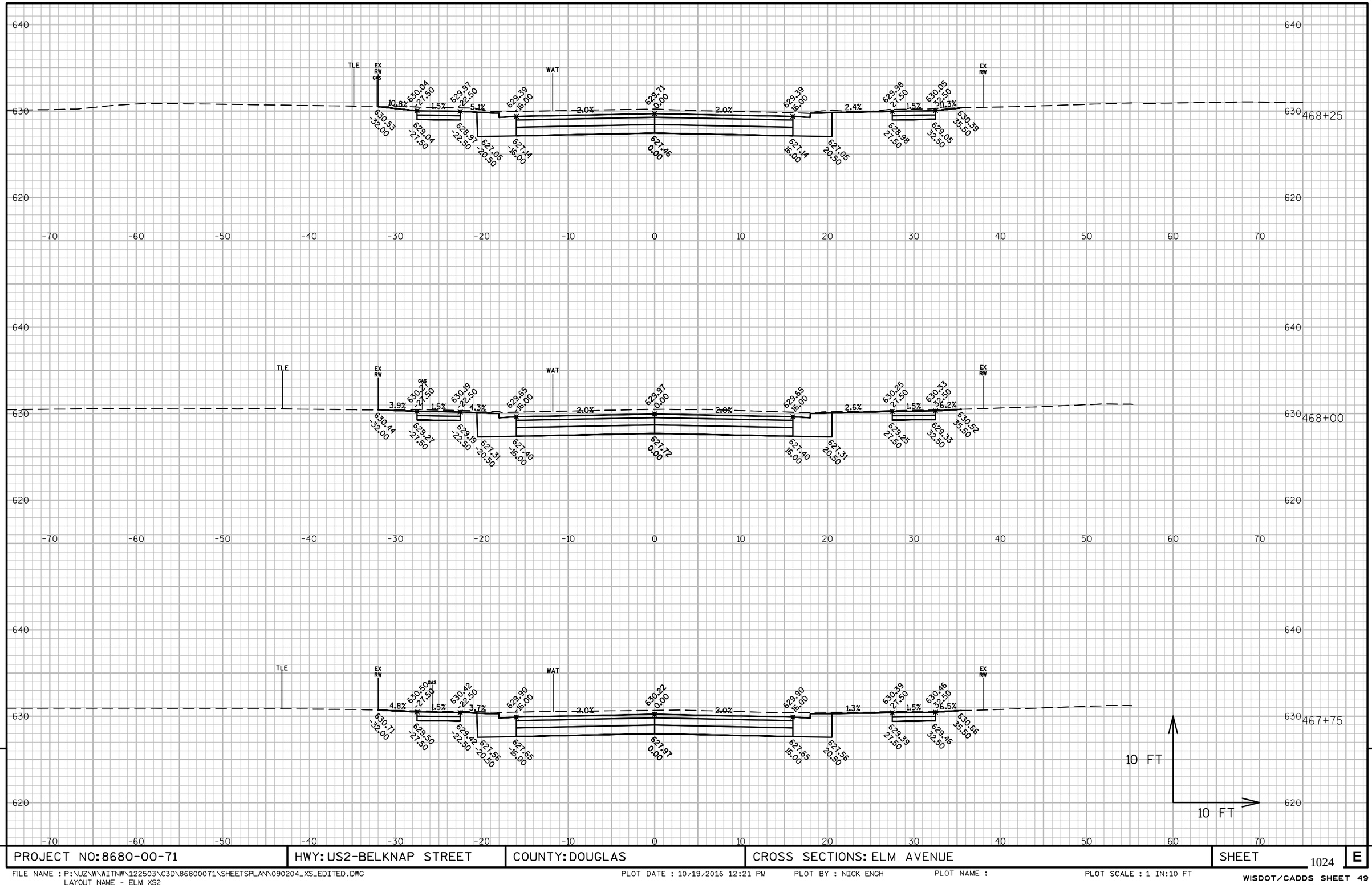
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - PINE XS2

PLOT DATE : 10/19/2016 12:13 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: ELM AVENUE	SHEET 1023	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - ELM XS1
PLOT DATE : 10/19/2016 12:26 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



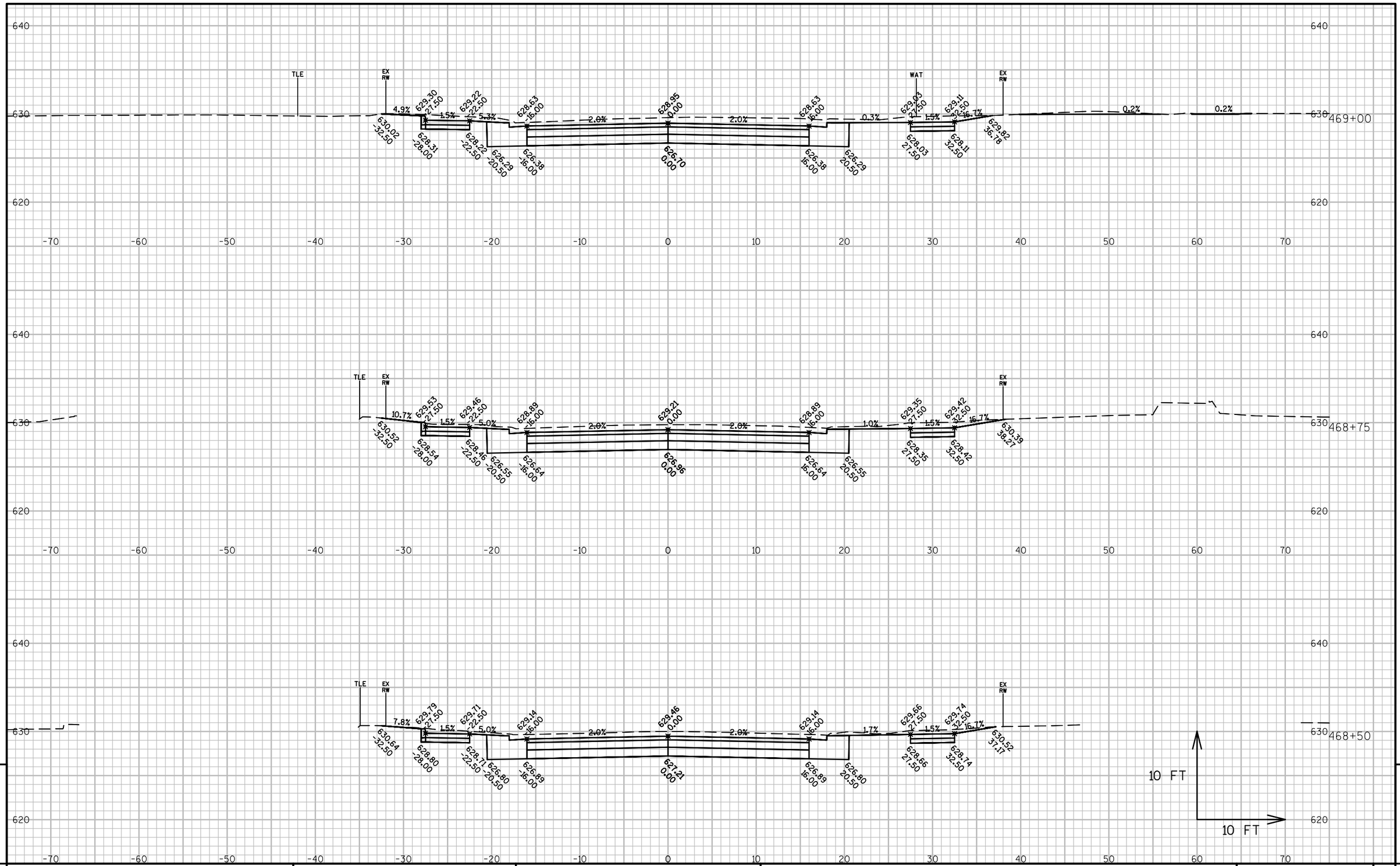
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9

PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: ELM AVENUE	SHEET 1024	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - ELM XS2

PLOT DATE : 10/19/2016 12:21 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



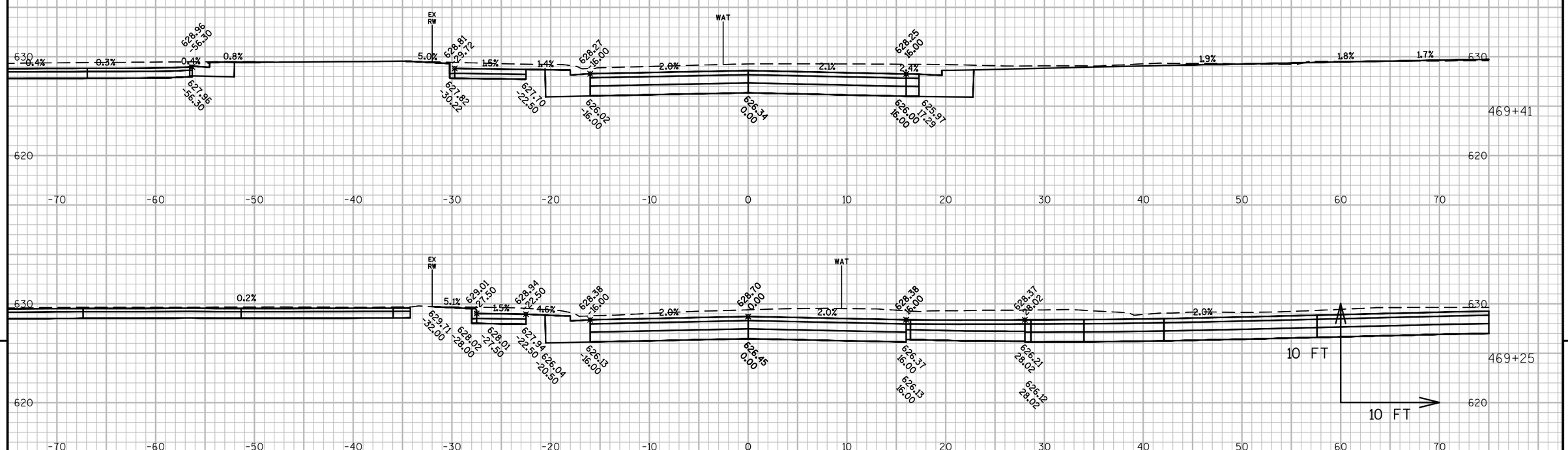
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: ELM AVENUE	SHEET 1025	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - ELM XS3

PLOT DATE : 10/19/2016 1:01 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT



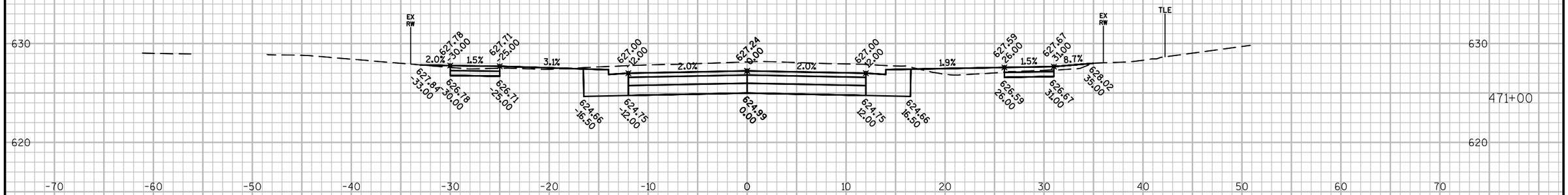
PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: ELM AVENUE	SHEET 1026	E

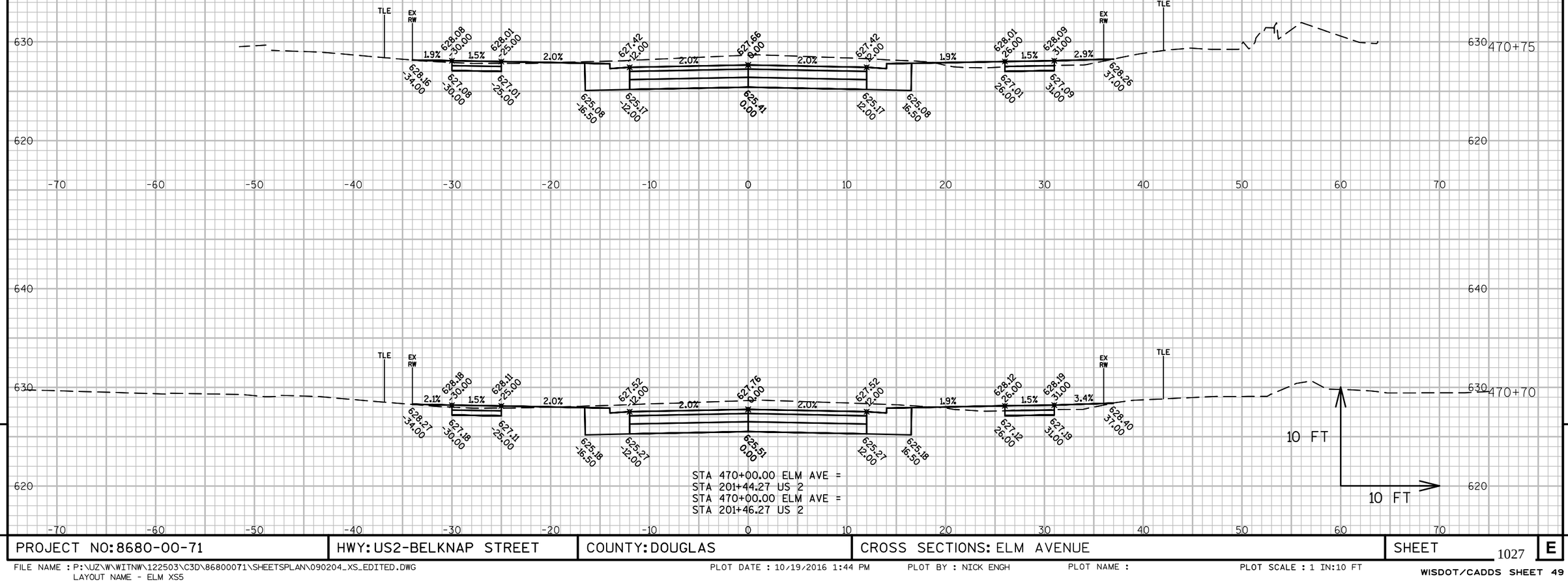
FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - ELM XS4

PLOT DATE : 10/19/2016 1:16 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STA 471+39 RT
PE





STA 470+00.00 ELM AVE =
STA 201+44.27 US 2
STA 470+00.00 ELM AVE =
STA 201+46.27 US 2

9

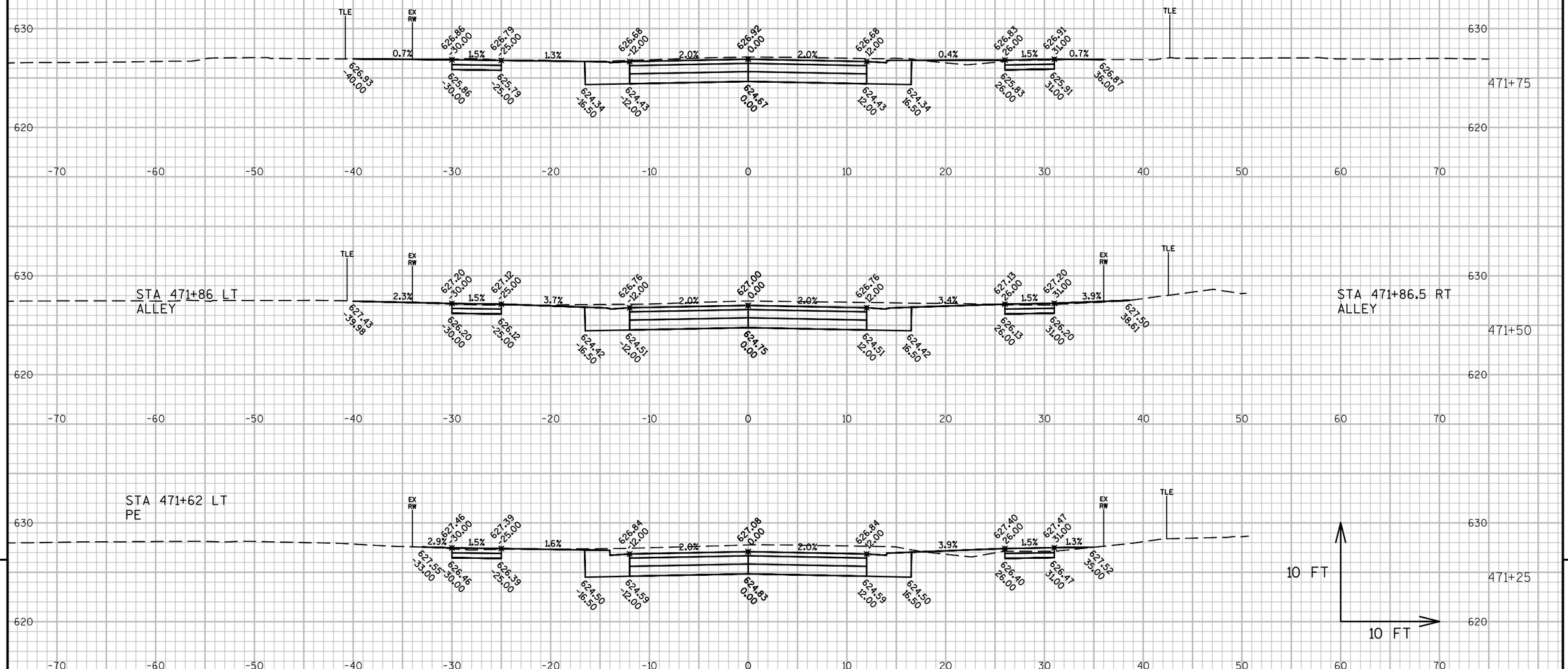
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: ELM AVENUE	SHEET 1027	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - ELM XS5
PLOT DATE : 10/19/2016 1:44 PM
PLOT BY : NICK ENGH
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 472+15.00
MATCH EXISTING





9

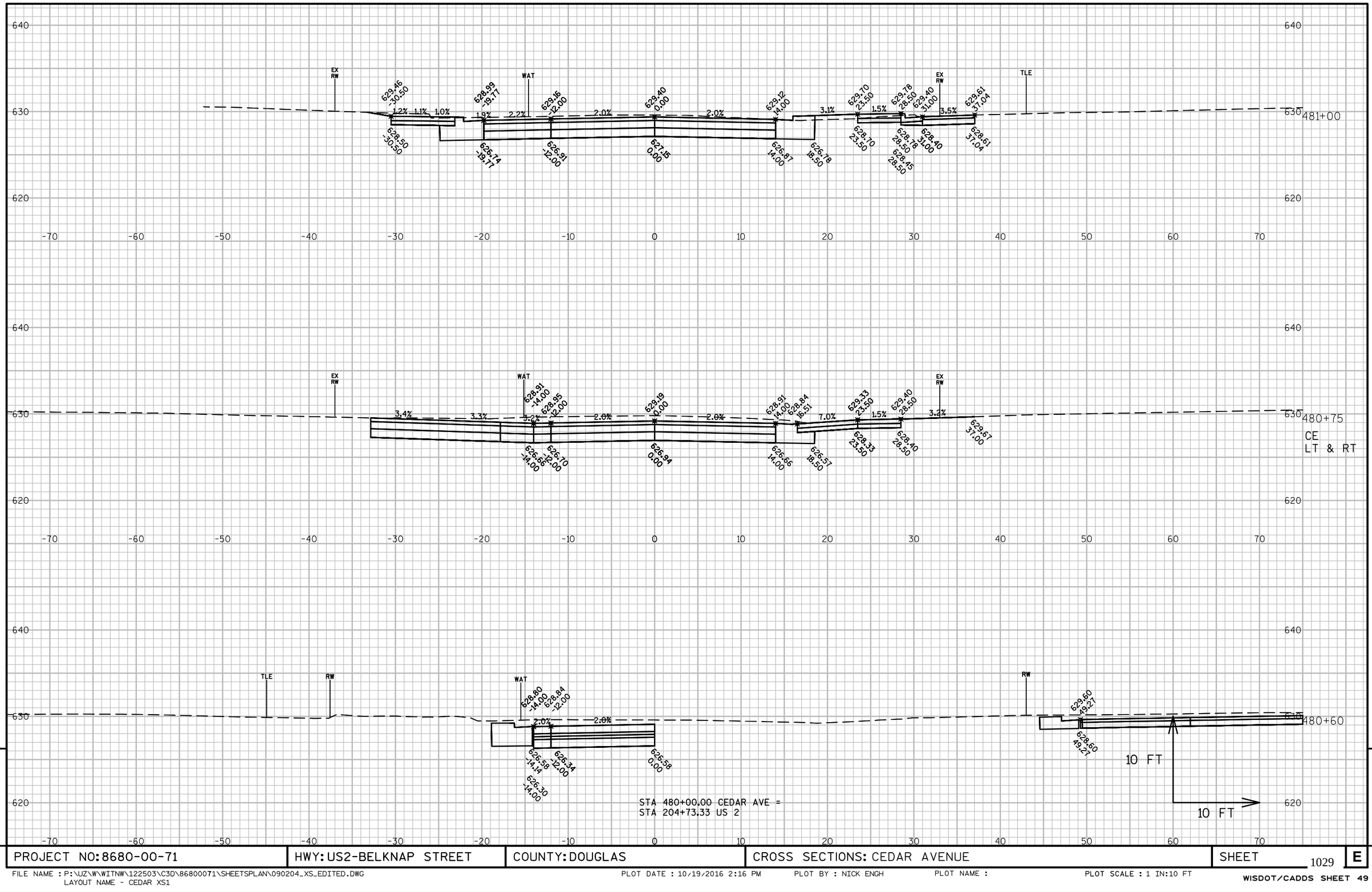
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: ELM AVENUE	SHEET 1028	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - ELM XS6

PLOT DATE : 10/19/2016 1:50 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

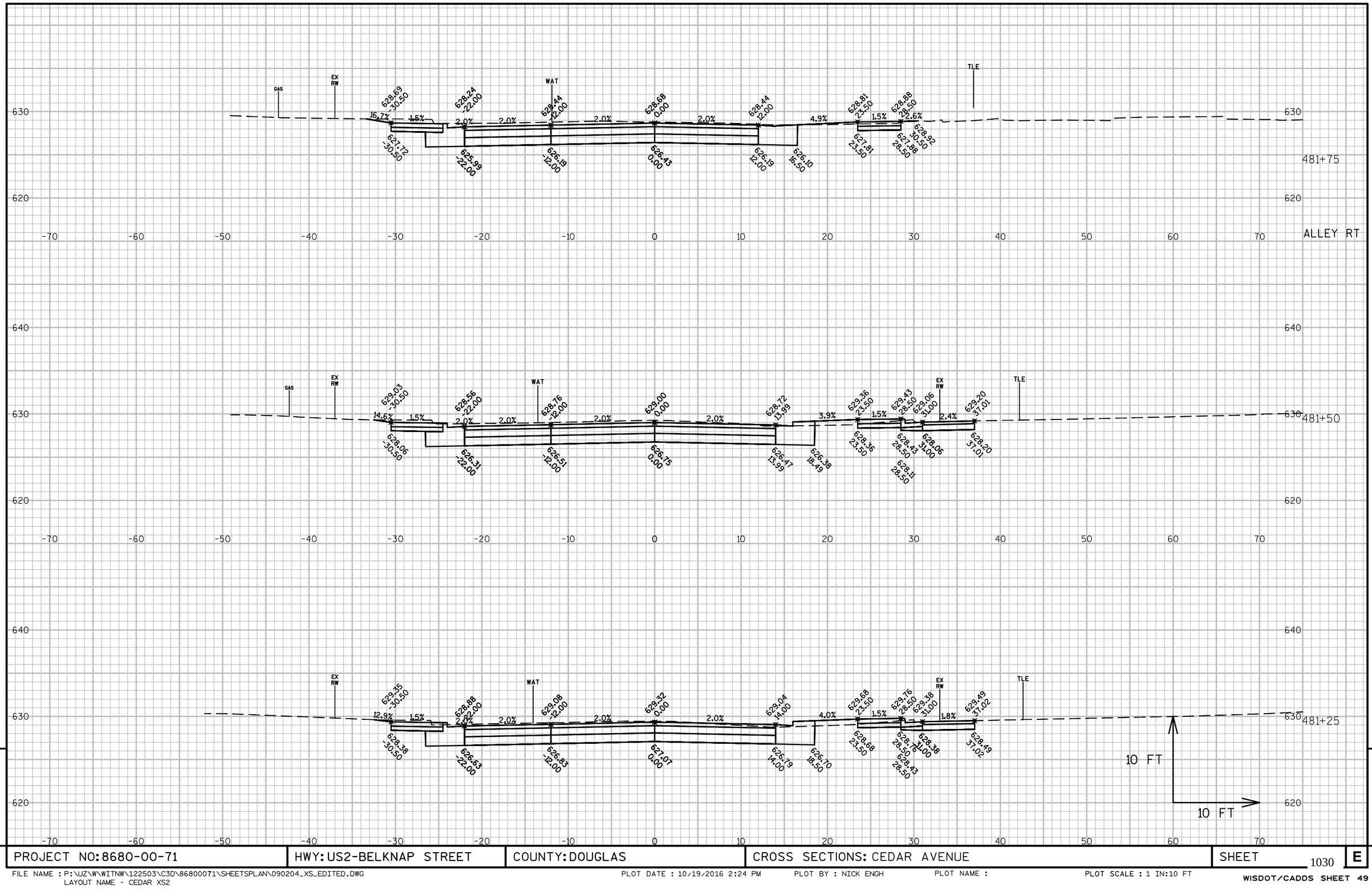
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CEDAR AVENUE	SHEET 1029	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CEDAR XS1

PLOT DATE : 10/19/2016 2:16 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

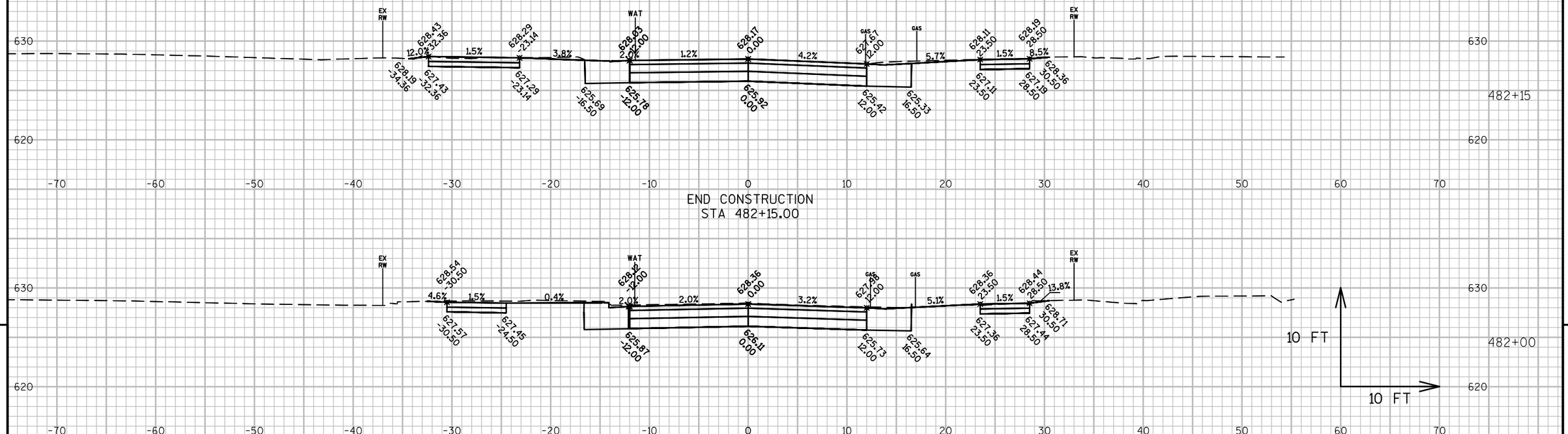
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CEDAR AVENUE	SHEET 1030	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CEDAR XS2

PLOT DATE : 10/19/2016 2:24 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



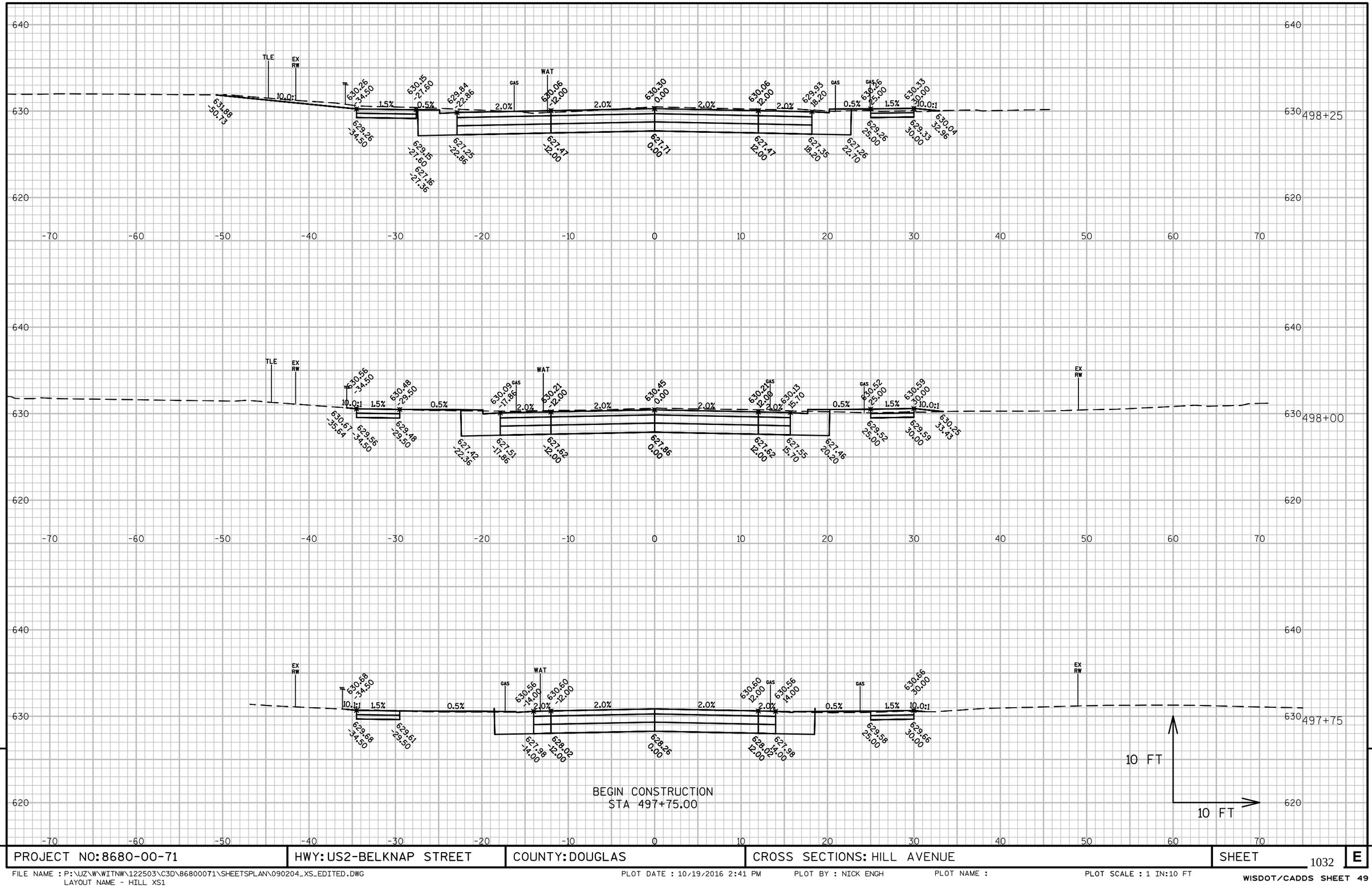
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: CEDAR AVENUE	SHEET 1031	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - CEDAR XS3

PLOT DATE : 10/19/2016 2:30 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

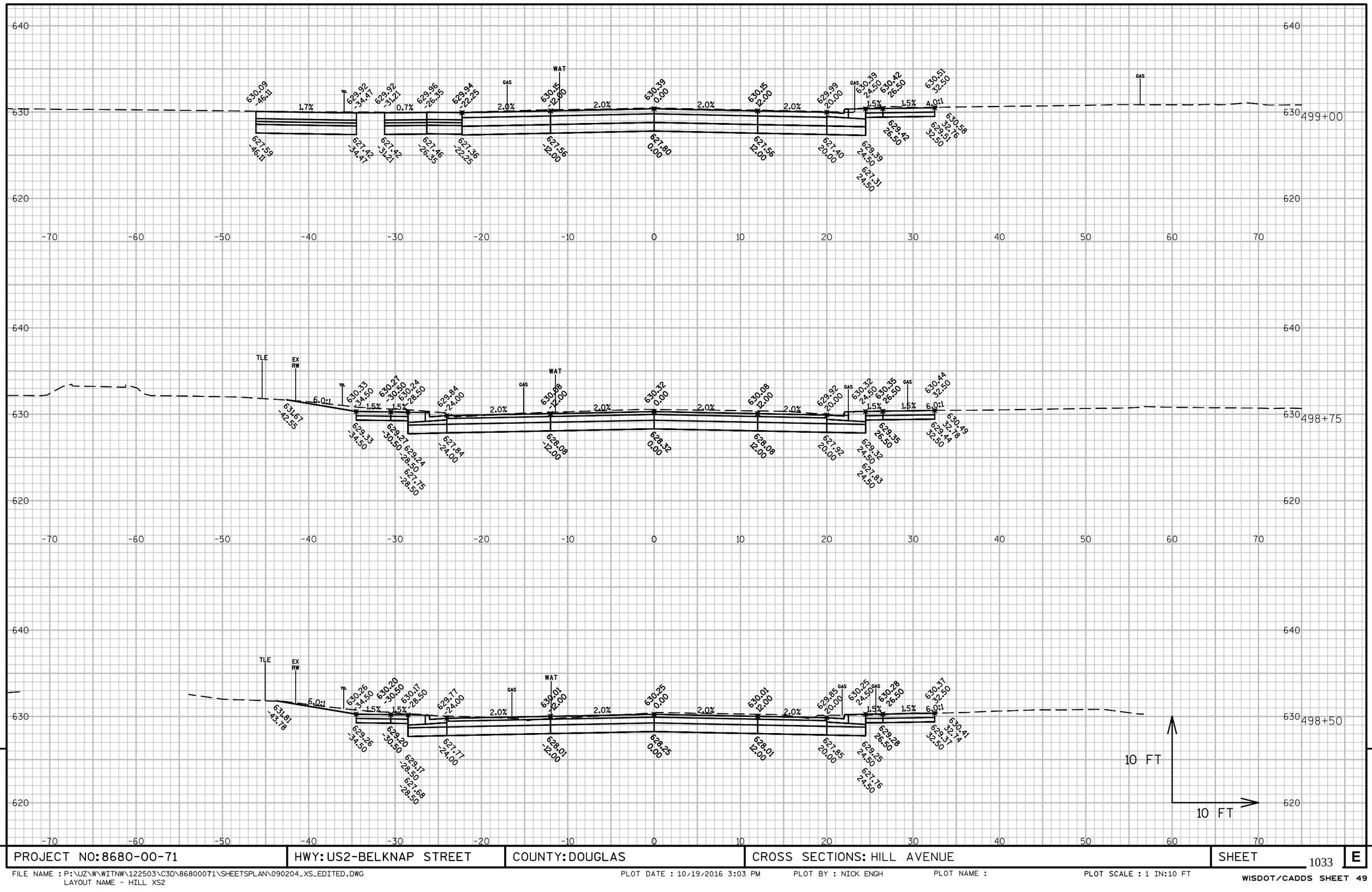


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HILL AVENUE	SHEET 1032	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - HILL XS1

PLOT DATE : 10/19/2016 2:41 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

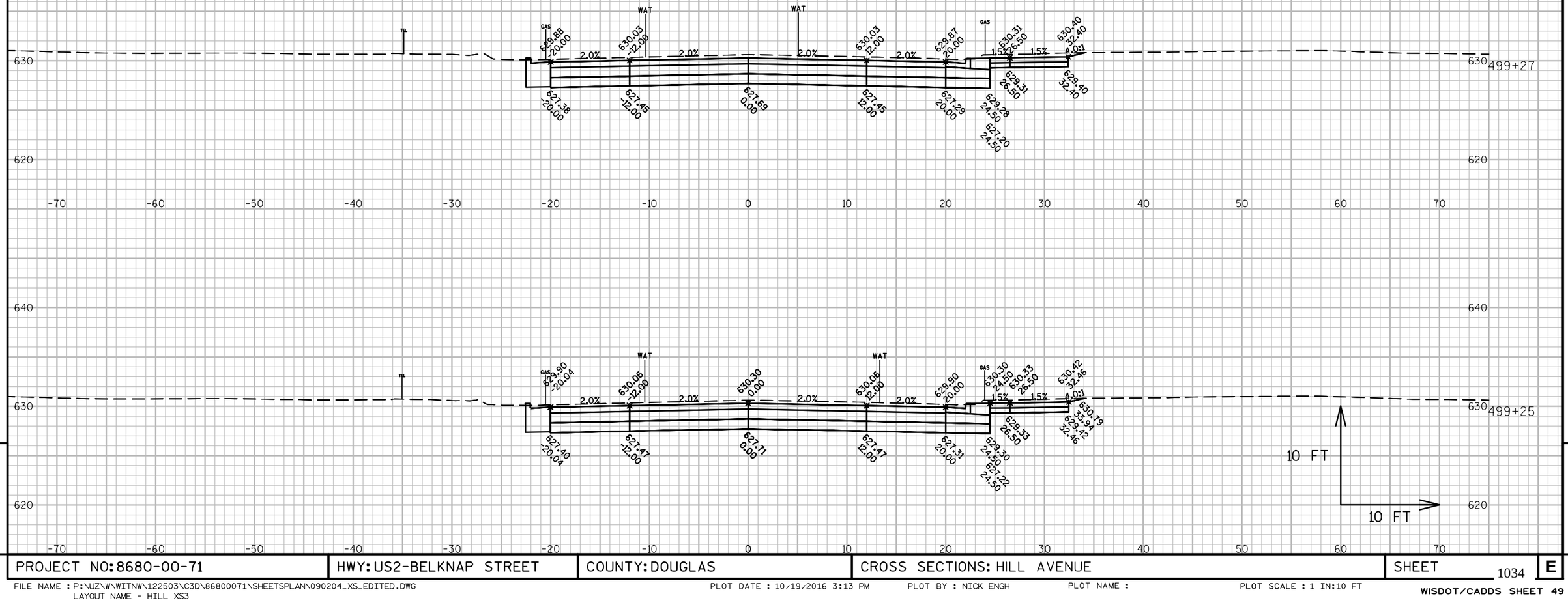
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PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HILL AVENUE	SHEET 1033	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - HILL XS2

PLOT DATE : 10/19/2016 3:03 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

STA 500+00.00 HILL AVE =
STA 208+34.26 US 2

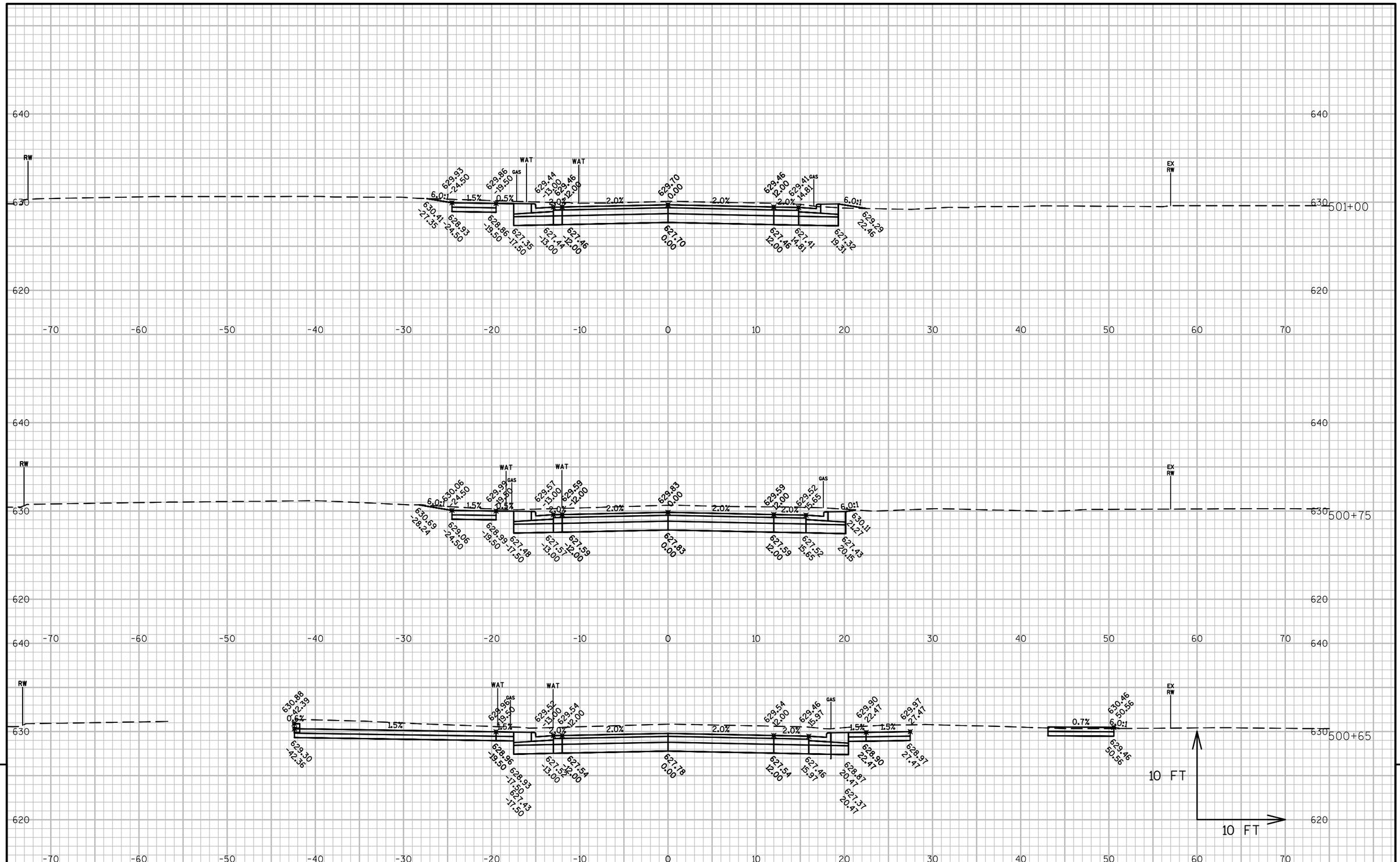


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HILL AVENUE	SHEET 1034	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - HILL XS3

PLOT DATE : 10/19/2016 3:13 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

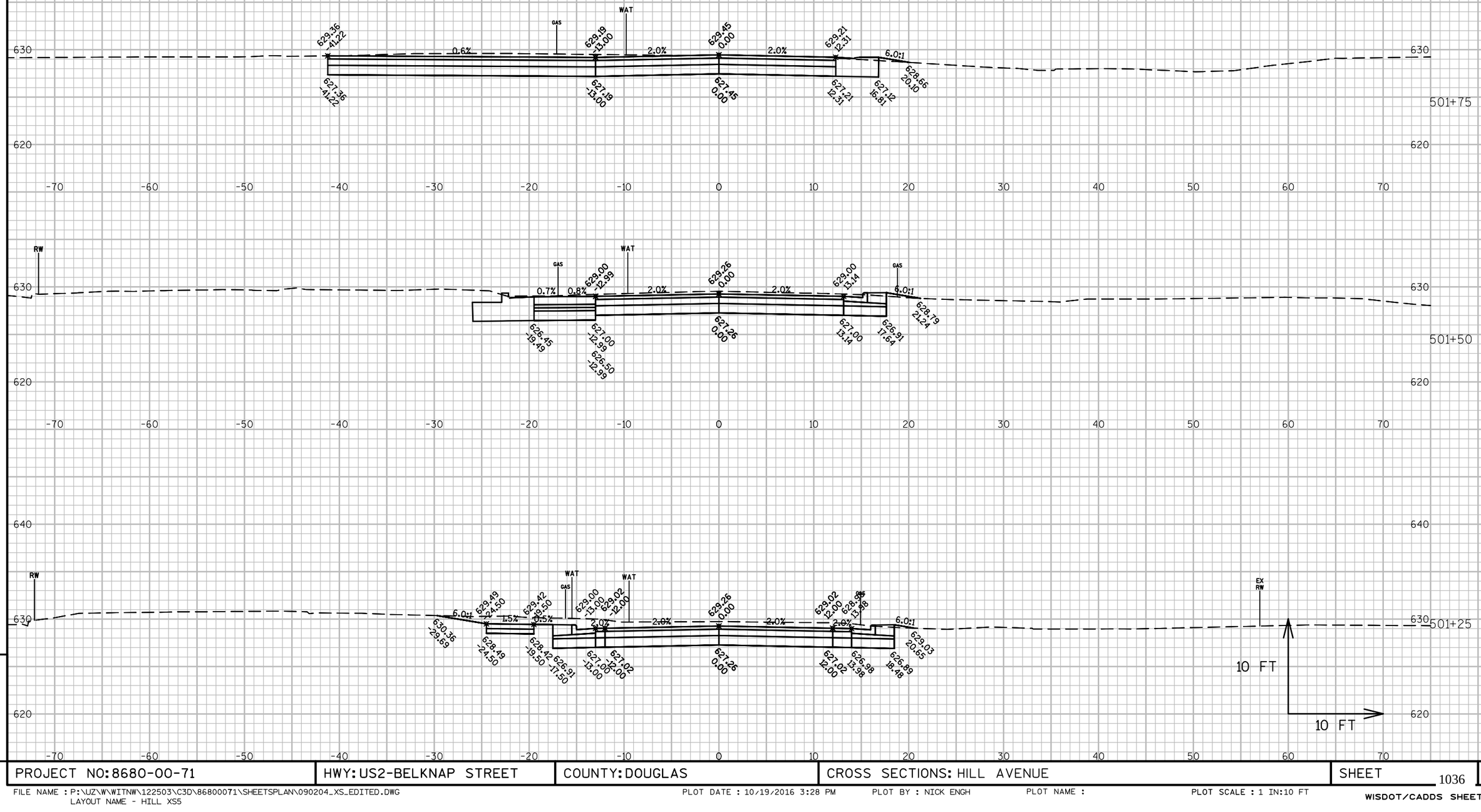


PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HILL AVENUE	SHEET 1035	E

FILE NAME : P:\UZ\W\WITNW\122503\C3D\86800071\SHEETSPLAN\090204_XS_EDITED.DWG
LAYOUT NAME - HILL XS4

PLOT DATE : 10/19/2016 3:24 PM PLOT BY : NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT

END CONSTRUCTION
STA 501+85.00



PROJECT NO: 8680-00-71	HWY: US2-BELKNAP STREET	COUNTY: DOUGLAS	CROSS SECTIONS: HILL AVENUE	SHEET 1036	E

Notes

Wisconsin Department of Transportation

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