GRE MAR 2014

PROJECT ID: 9180-19-71

COUNTY: OCONTO

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 = 330

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CITY OF OCONTO FALLS

W. HIGHLAND DR - E. HIGHLAND DR

STH 22

OCONTO COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9180-19-71	WISC 2015145	1

STATE PROJECT NUMBER
9180-19-71

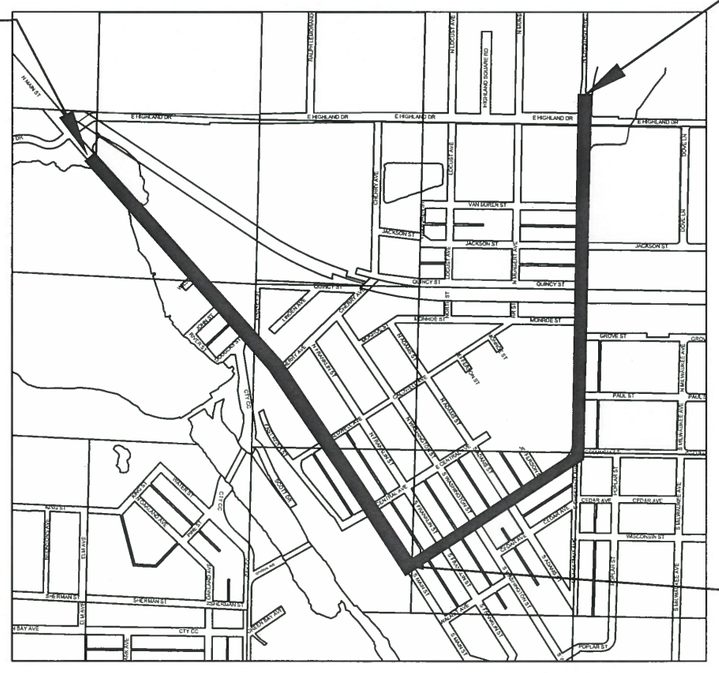
PROJECT LOCATION

31

N

BEGIN PROJECT 9180-19-71
STA. 420+00.00
Y = 176674.176
X = 537064.268

R-19-E



END PROJECT 9180-19-71
STA. 49+25
Y = 177175.869
X = 540979.659

T-28-N

EQUATION
STA. 5+14.30 AH=
STA. 460+49.85 BK

EQUATION

DESIGN DESIGNATION

A.A.D.T.	2015	=	4,500
A.A.D.T.	2035	=	5,000
D.H.V.	2035	=	610
D.D.		=	59/41
T.		=	16.3%
DESIGN SPEED		=	30
ESALS		=	1,087,700

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
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

LAYOUT
SCALE 0 1/4MI

TOTAL NET LENGTH OF CENTERLINE = 1.602 MI. URBAN

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

COORDINATES ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICANDATUM OF 1983 AND 1991 ADJUSTMENT (NAD83(91)).

ACCEPTED FOR
CITY OF OCONTO FALLS

10/14/14 (DATE) Vicki A. Roberts (CITY ADMINISTRATOR)

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES

WISCONSIN PHILLIP J. VERVILLE III E-36336 GREEN BAY, WI PROFESSIONAL ENGINEER

10/9/14 (Date)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	AYRES ASSOCIATES
Project Manager	M. TERNES
Regional Examiner	
Regional Supervisor	D. SEGERSTROM

APPROVED FOR THE DEPARTMENT
DATE: 10/15/14 (Signature)

E

2

GENERAL NOTES

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

FILL, AS SHOWN ON THE PLAN SHEETS, PERTAINS TO EMBANKMENT CONSTRUCTED FROM EXCAVATION COMMON. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.5.

EXCAVATION BELOW SUBGRADE (EBS) WILL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATION AND WIDTH OF PRIVATE ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS. BASE AGGREGATE DENSE 1 1/4-INCH WILL BE USED UNDER ALL DRIVEWAYS.

THE REMOVAL OF ASPHALT DRIVEWAYS WILL BE PAID FOR AS EXCAVATION COMMON.

MAINTAIN DRIVING SURFACE TO ALL PROPERTY OWNERS WITH BASE AGGREGATE DENSE 1 1/4-INCH.

A SAW JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

SAW CUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAW CUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT AND/OR CONCRETE STREETS, DRIVEWAYS AND/OR PARKING LOTS AT THE MATCH LINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

EROSION CONTROL MEASURES WILL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER. FINAL LIMITS OF FENCE REMOVAL TO BE DETERMINED BY THE ENGINEER.

RESHAPE AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

BOXOUTS WILL BE PROVIDED IN CONCRETE SIDEWALK BY THE CONTRACTOR FOR SIGN PLACEMENT. THE COST OF THE BOXOUTS WILL BE INCIDENTAL TO CONCRETE SIDEWALK. LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING MOTORISTS AND PEDESTRIANS THAT MAY ENTER THE WORK ZONE FROM POSSIBLE HAZARD.

CURB AND GUTTER ELEVATIONS ARE ALONG THE FLANGE LINE UNLESS OTHERWISE NOTED.

RADIUS POINTS, UNLESS OTHERWISE NOTED, ARE TO FACE OF CURB.

CURVE DATA IS BASED ON ARC DEFINITION.

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS.

PROPERTY LINES SHOWN ARE APPROXIMATE.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AH	AHEAD
ET AL	AND OTHERS
	ANGLE
BK	BACK
BLDG	BUILDING
BLK	BLOCK
BR	BRIDGE
CB	CATCH BASIN
CL OR C/L	CENTER LINE
	CENTRAL ANGLE OR DELTA
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CPCA	CULVERT PIPE CORRUGATED ALUMINUM
CPCS	CULVERT PIPE CORRUGATED STEEL
CTH	COUNTY TRUNK HIGHWAY
CR	CREEK
CP	CULVERT PIPE
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DWY	DRIVEWAY
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
EL OR ELEV	ELEVATION
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXIST	EXISTING
FF	FACE TO FACE
FE	FIELD ENTRANCE
FG	FINISHED GRADE
FT	FOOT
INL	INLET
INV	INVERT
IP	IRON PIPE OR PIN
LT	LEFT
L	LENGTH OF CURVE
LIN FT OR LF	LINEAR FOOT
MH	MANHOLE
NC	NORMAL CROWN
NW OR N/W	NORMAL WATER
N	NORTH
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
PT	POINT
PCC	POINT OF COMPOUND CURVE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
POC	POINT ON CURVE
POT	POINT ON TANGENT
RR	RAILROAD
RL OR R/L	REFERENCE LINE
REBAR	REINFORCEMENT BAR
REQD	REQUIRED
R/W	RIGHT-OF-WAY
R	RADIUS
S	SOUTH
SB	SOUTHBOUND
STH	STATE TRUNK HIGHWAYS
STA	STATION
SS	STORM SEWER
SE	SUPERELEVATION
SURF	SURFACE
SL OR S/L	SURVEY LINE
T	TANGENT
TYP	TYPICAL
WB	WESTBOUND

PROJECT AND UTILITY CONTACTS

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION HEADQUARTERS
ATTN: JIM DOPERALSKI JR.
2984 SHAWANO AVENUE
P.O. BOX 10488
GREEN BAY, WI 54307-0448
PHONE: 920-662-5119
EMAIL: james.doperalski@wisconsin.gov

WIS. DEPT OF TRANSPORTATION
NORTHEAST REGION - PRIMARY CONTACT
ATTN: MATT TERNES-PROJECT MANAGER
944 VANDERPERRON WAY
PO BOX 28080
GREEN BAY, WI 54304
PHONE:920-492-3500
EMAIL:Matthew.Ternes@dot.wi.gov

AYRES ASSOCIATES
ATTN: PHIL VERVILLE III
3376 PACKERLAND DRIVE
ASHWAUBENON, WI 54115
PHONE: 920-498-1200
EMAIL: Vervillep@ayresassociates.com

COUNTY SURVEYOR
MARK TUETEBERG
301 WASHINGTON STREET
OCONTO, WI 54153
920-834-8821

PACKERLAND BROADBAND
WAYNE CRETTON
105 KENT STREET
PO BOX 190
IRON MOUNTAIN, MI 49801
PHONE: 906-282-3768
EMAIL: wayne.cretton@plbb.us

CENTURYLINK
DENNIS HAAG
144 N PEARL STREET
PO BOX 70
BERLIN, WI 54923
PHONE: 920-361-0040
EMAIL: dennis.haag@centurytel.com

OCONTO FALLS MUNICIPAL UTILITY-WATER AND SEWER
JASON VALENTINE
223 MONROE AVENUE
OCONTO FALLS, WI 54154
PHONE: 920-846-4424
jvalentine@wppienergy.org

OCONTO FALLS MUNICIPAL UTILITY-ELECTRIC
JASON VALENTINE
223 MONROE AVENUE
OCONTO FALLS, WI 54154
PHONE: 920-846-4244
jvalentine@wppienergy.org

OCONTO ELECTRIC COOPERATIVE-ELECTRIC
JACK PARDY
7479 REA ROAD
PO BOX 168
OCONTO FALLS, WI 54154-9573
PHONE: 920-846-2816
EMAIL: jpardy@ocontoelectric.com

WE ENERGIES-GAS/PETROLEUM AND ELECTRIC
LATROY BRUMFIELD
A299
333 W. EVERETT STREET
MILWAUKEE, WI 53203
PHONE: 414-221-5617
EMAIL: LaTroy.Brumfield@we-energies.com

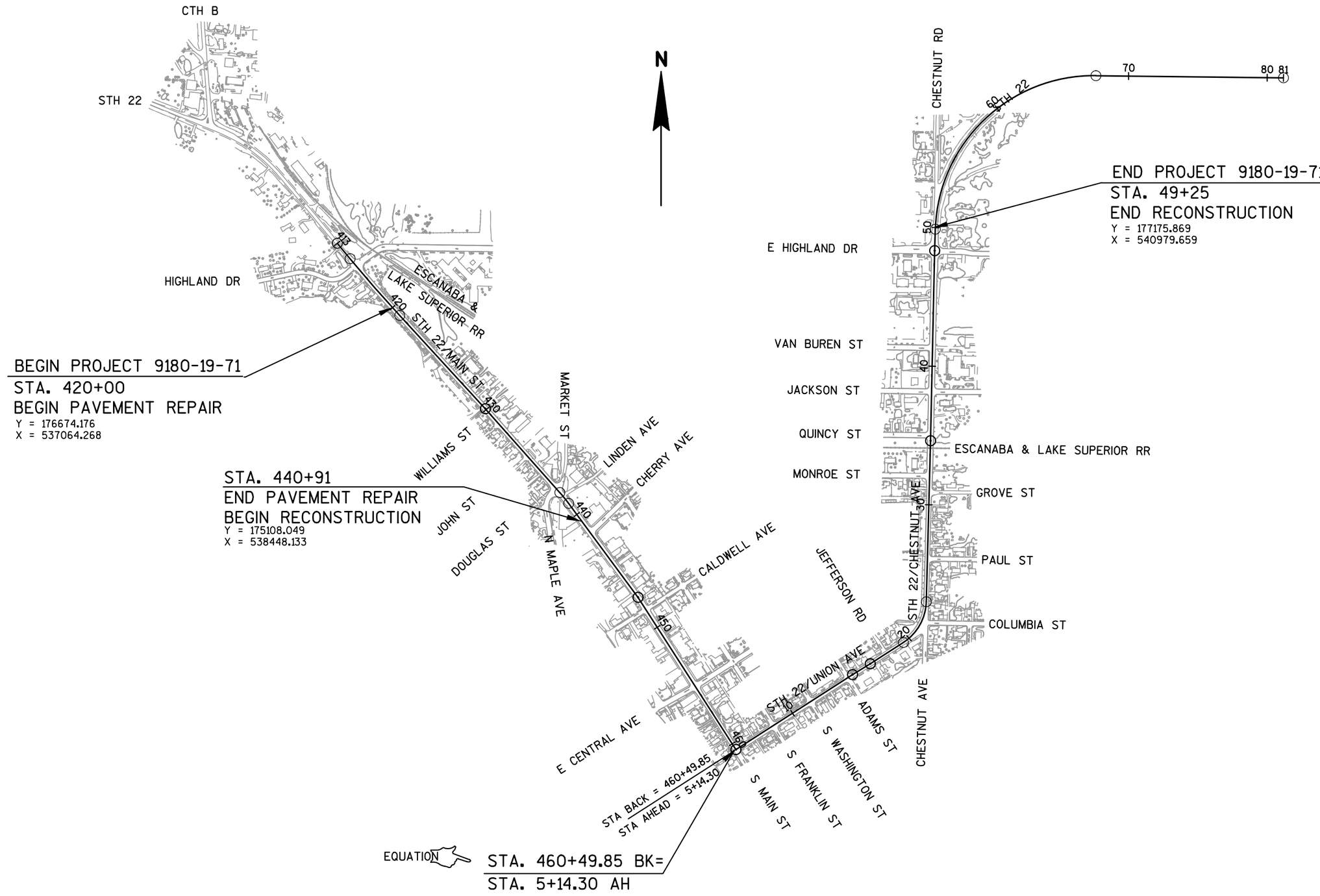
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	ASPHALTIC MATERIAL
E-0.3	4"	1 3/4" UPPER LAYER 2 1/4" LOWER LAYER	PG-64-28 PG-64-28
E-0.3	5"	2" UPPER LAYER 3" LOWER LAYER	PG-64-28 PG-64-28

ORDER OF SECTION 2 SHEETS

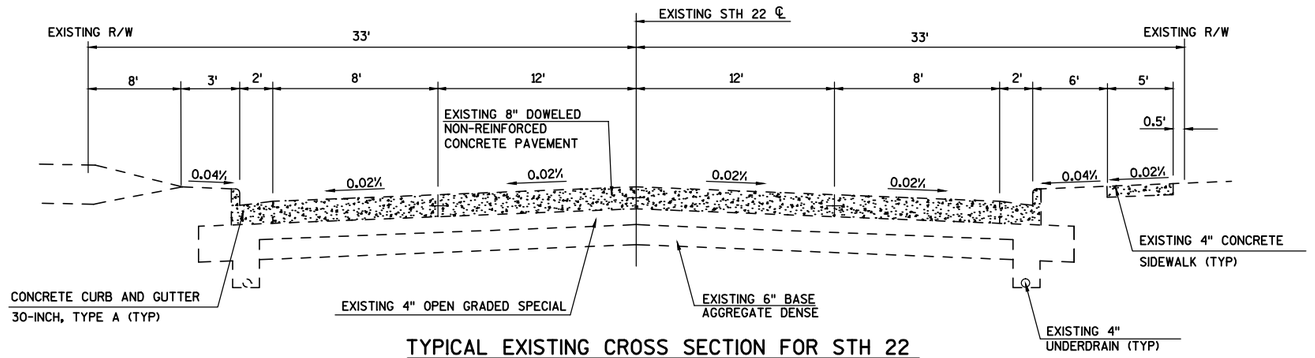
GENERAL NOTES & CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
PERMANENT SIGNING
LIGHTING PLAN
DETOURS
ALIGNMENT DIAGRAMS

2



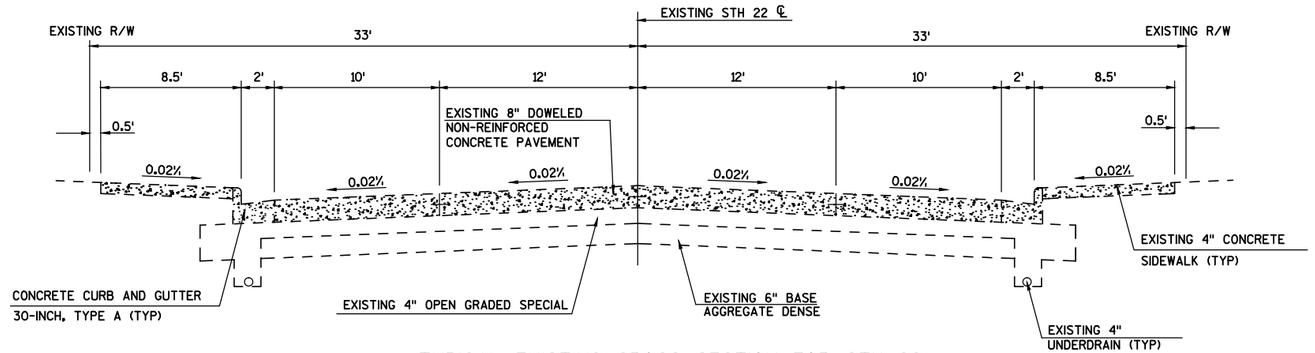
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PROJECT OVERVIEW	SHEET 3	E

2



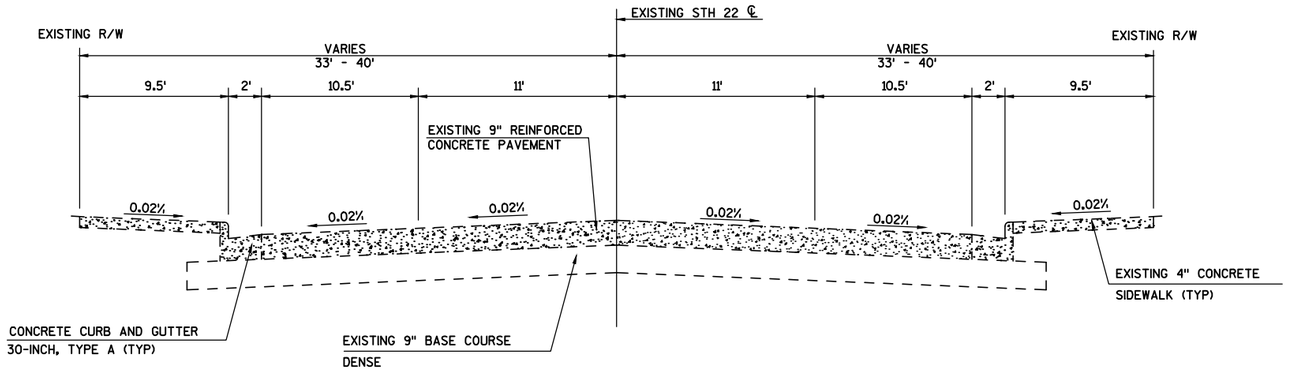
TYPICAL EXISTING CROSS SECTION FOR STH 22

STA. 420+00 - STA. 438+00



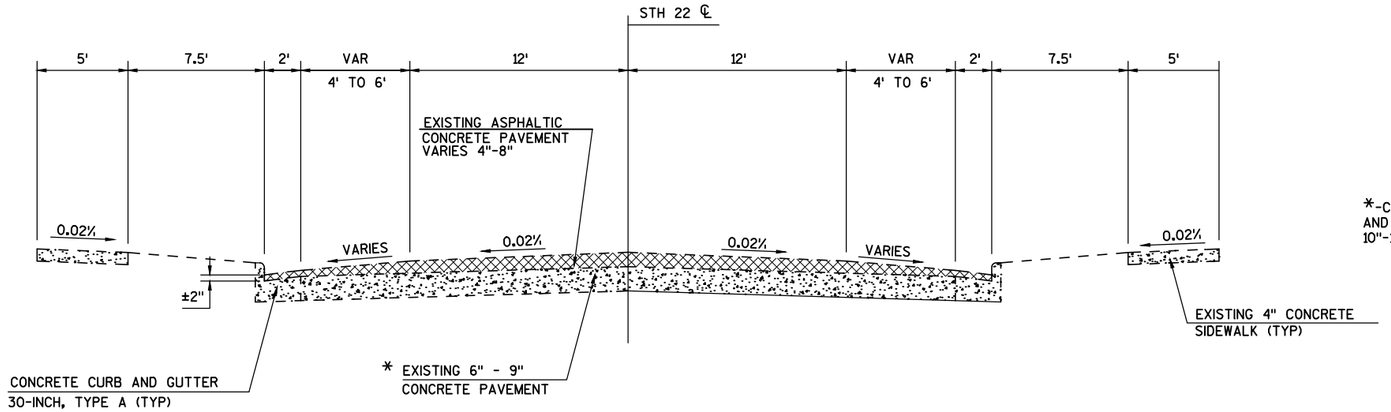
TYPICAL EXISTING CROSS SECTION FOR STH 22

STA. 438+00 - STA. 442+22



TYPICAL EXISTING CROSS SECTION FOR STH 22

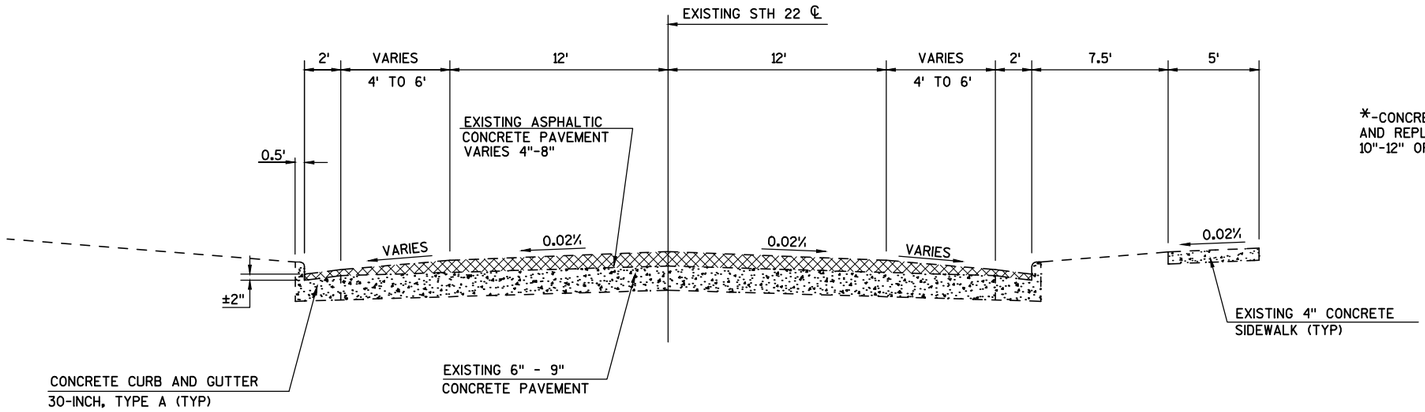
STA. 442+22 - STA. 456+10.30



*-CONCRETE PAVEMENT WAS REMOVED IN UTILITY TRENCHES AND REPLACED WITH 2"-4" OF ASPHALTIC PAVEMENT AND 10"-12" OF BASE AGGREGATE DENSE.

TYPICAL EXISTING CROSS SECTION FOR STH 22

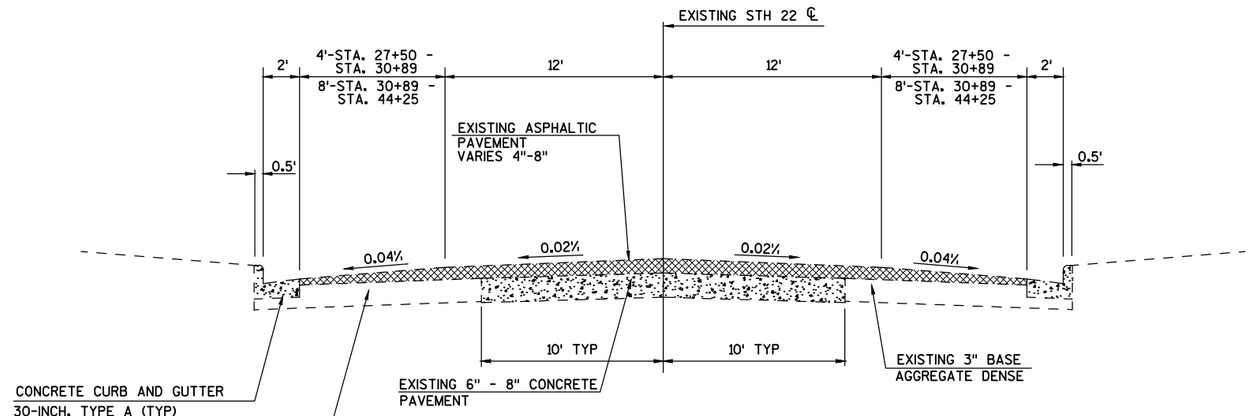
STA. 456+10.30 - STA. 19+50



*-CONCRETE PAVEMENT WAS REMOVED IN UTILITY TRENCHES AND REPLACED WITH 2"-4" OF ASPHALTIC PAVEMENT AND 10"-12" OF BASE AGGREGATE DENSE.

TYPICAL EXISTING CROSS SECTION FOR STH 22

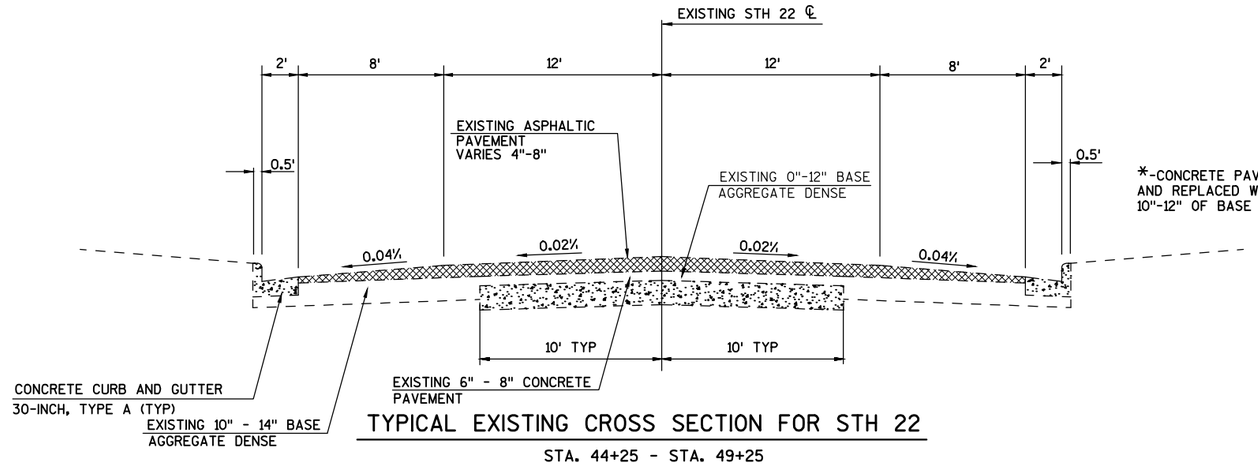
STA. 19+50 - STA. 27+50



*-CONCRETE PAVEMENT WAS REMOVED IN UTILITY TRENCHES AND REPLACED WITH 2"-4" OF ASPHALTIC PAVEMENT AND 10"-12" OF BASE AGGREGATE DENSE.

TYPICAL EXISTING CROSS SECTION FOR STH 22

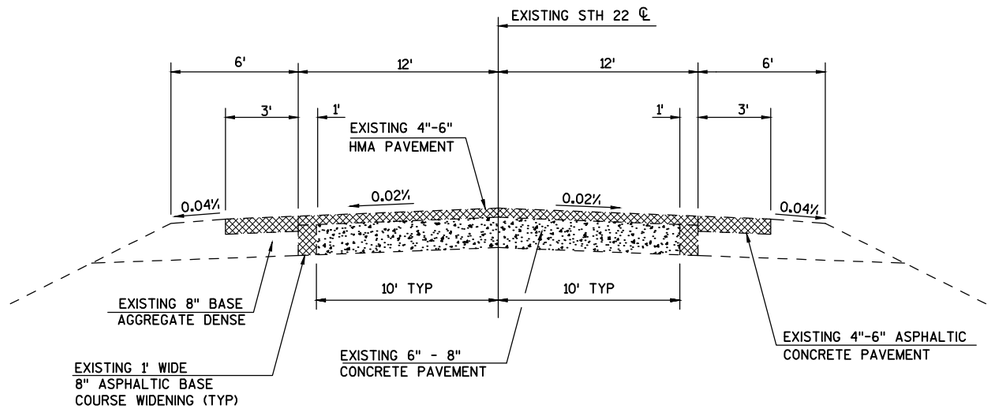
STA. 27+50 - STA. 44+25



*-CONCRETE PAVEMENT WAS REMOVED IN UTILITY TRENCHES AND REPLACED WITH 2"-4" OF ASPHALTIC PAVEMENT AND 10"-12" OF BASE AGGREGATE DENSE.

TYPICAL EXISTING CROSS SECTION FOR STH 22

STA. 44+25 - STA. 49+25

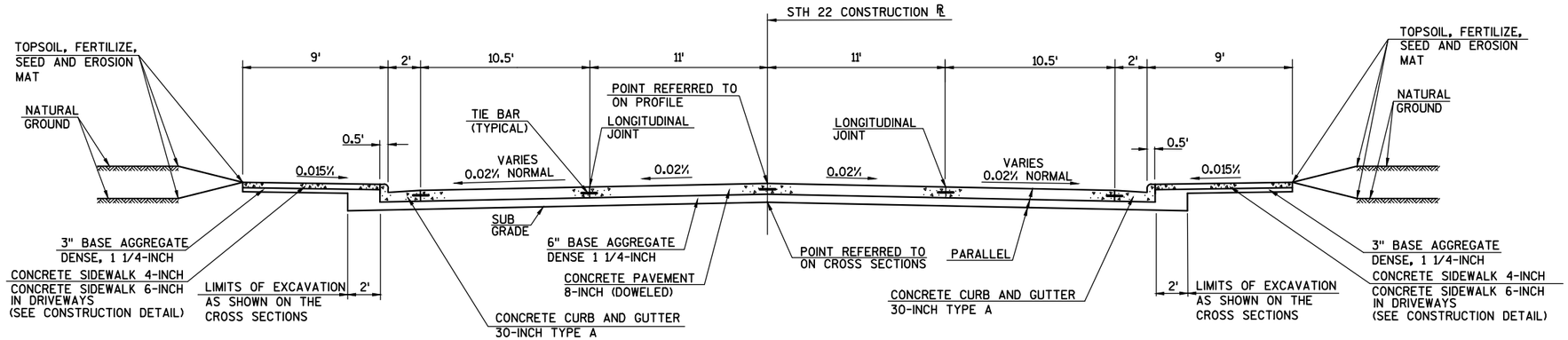


*-CONCRETE PAVEMENT WAS REMOVED IN UTILITY TRENCHES AND REPLACED WITH 2"-4" OF ASPHALTIC PAVEMENT AND 10"-12" OF BASE AGGREGATE DENSE.

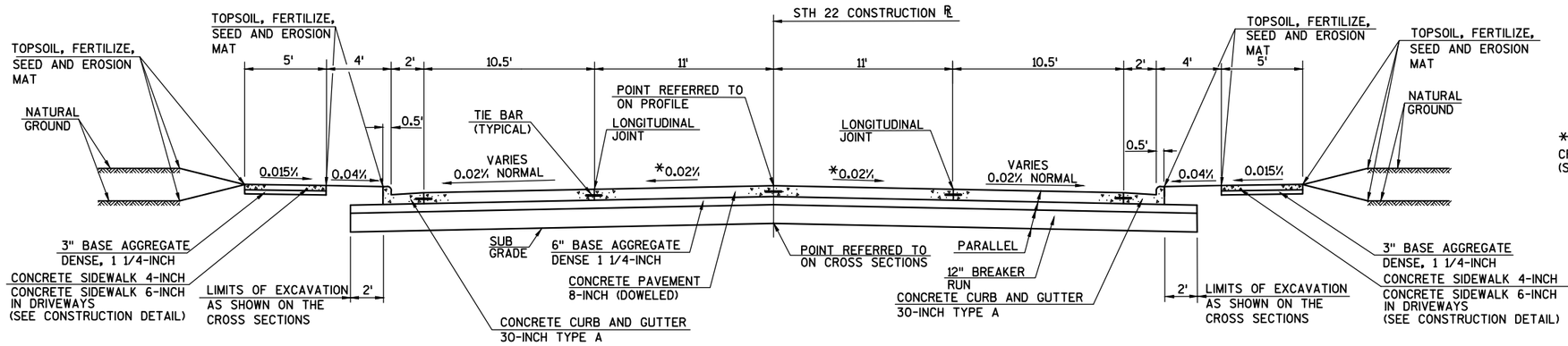
TYPICAL EXISTING CROSS SECTION FOR STH 22

STA. 49+25 - STA. 51+00

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 6	E

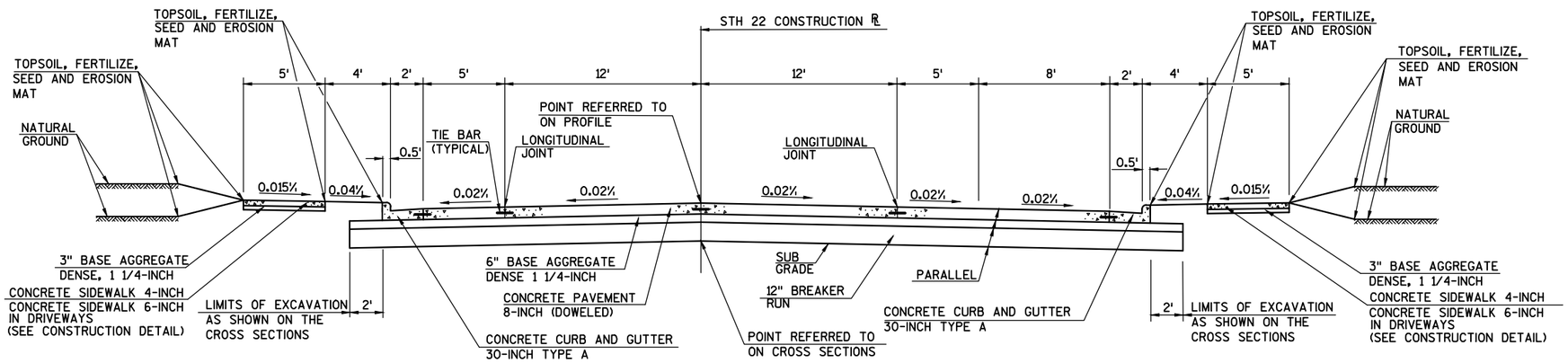


TYPICAL FINISHED CROSS SECTION FOR STH 22
STA 440+91 - STA. 455+69



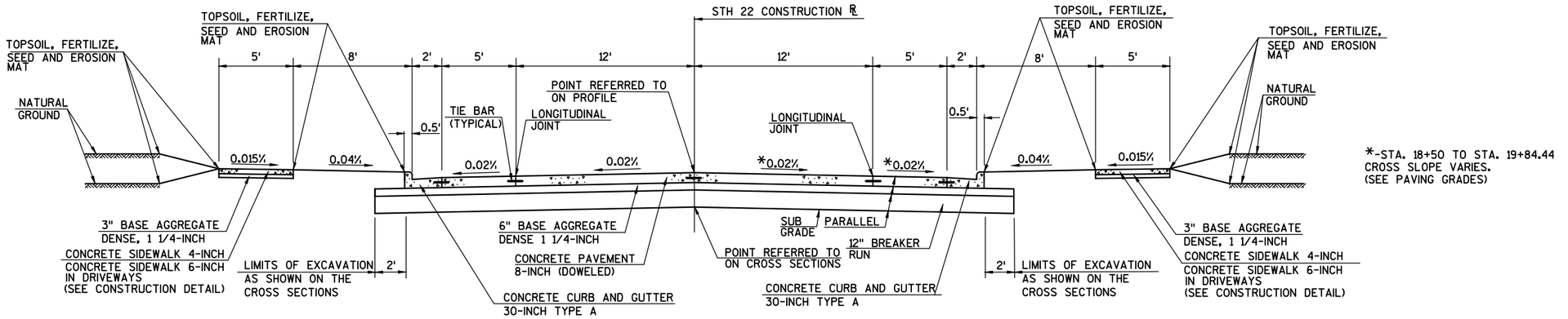
*-STA. 455+69 TO STA. 457+50
CROSS SLOPE VARIES.
(SEE PAVING GRADES)

TYPICAL FINISHED CROSS SECTION FOR STH 22
STA 455+69 - STA. 460+49.85



TYPICAL FINISHED CROSS SECTION FOR STH 22
STA 5+14.30 - STA. 14+76.17

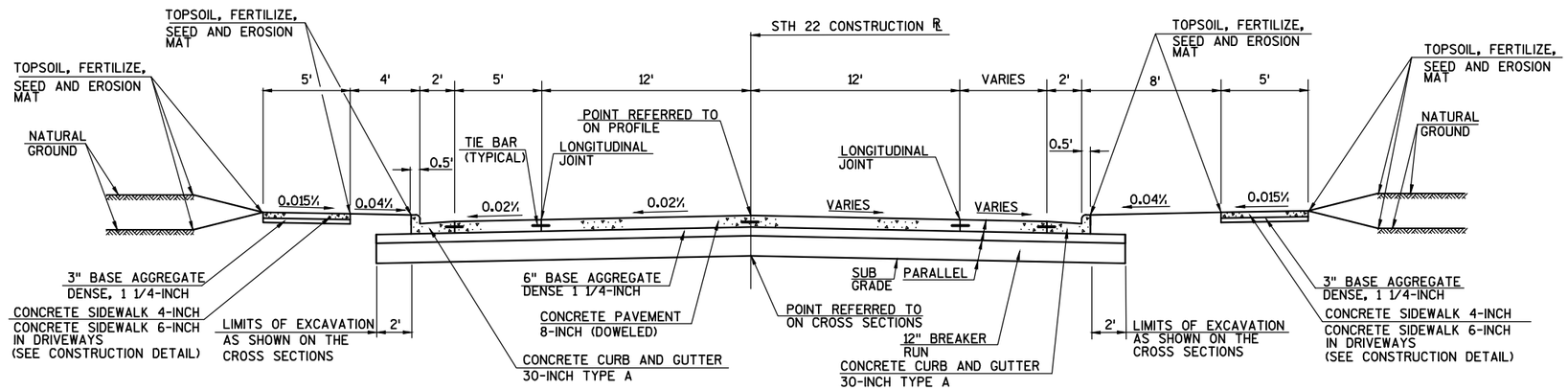
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 7	E



*-STA. 18+50 TO STA. 19+84.44
CROSS SLOPE VARIES.
(SEE PAVING GRADES)

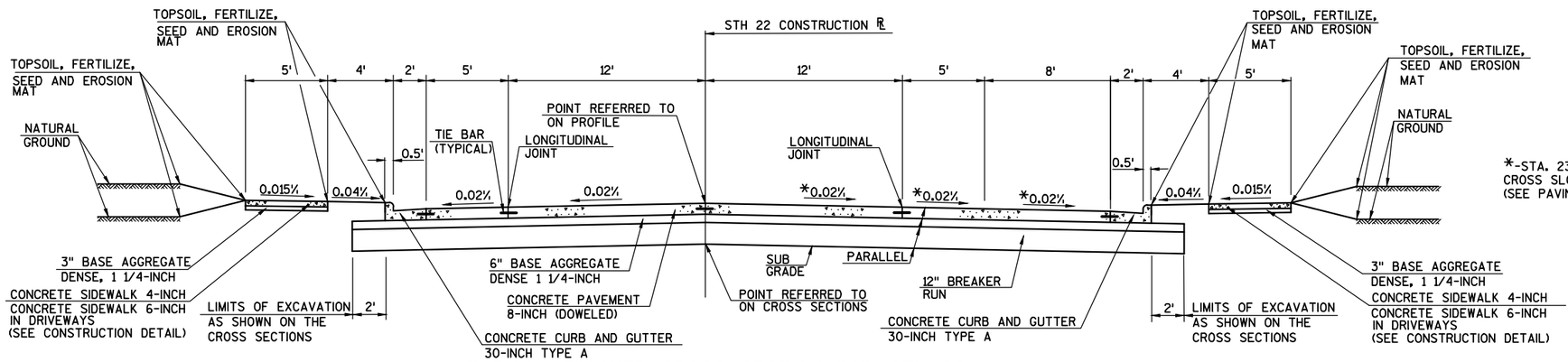
TYPICAL FINISHED CROSS SECTION FOR STH 22

STA 14+76.17 - STA. 19+84.44



TYPICAL FINISHED CROSS SECTION FOR STH 22

STA 19+84.44 - STA. 23+09

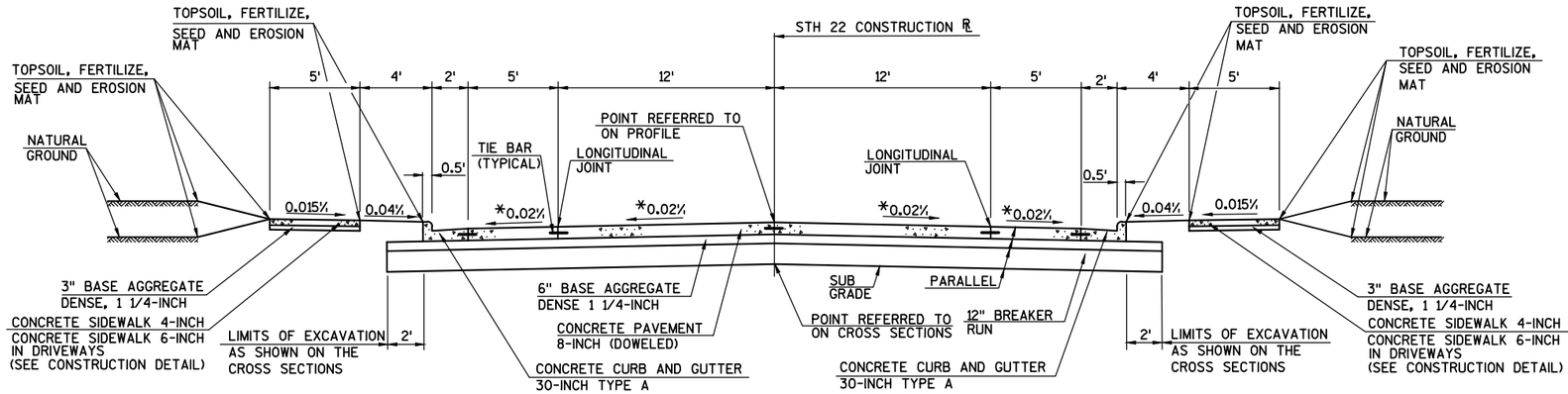


*-STA. 23+09 TO STA. 24+50
CROSS SLOPE VARIES.
(SEE PAVING GRADES)

TYPICAL FINISHED CROSS SECTION FOR STH 22

STA 23+09 - STA. 25+53.6

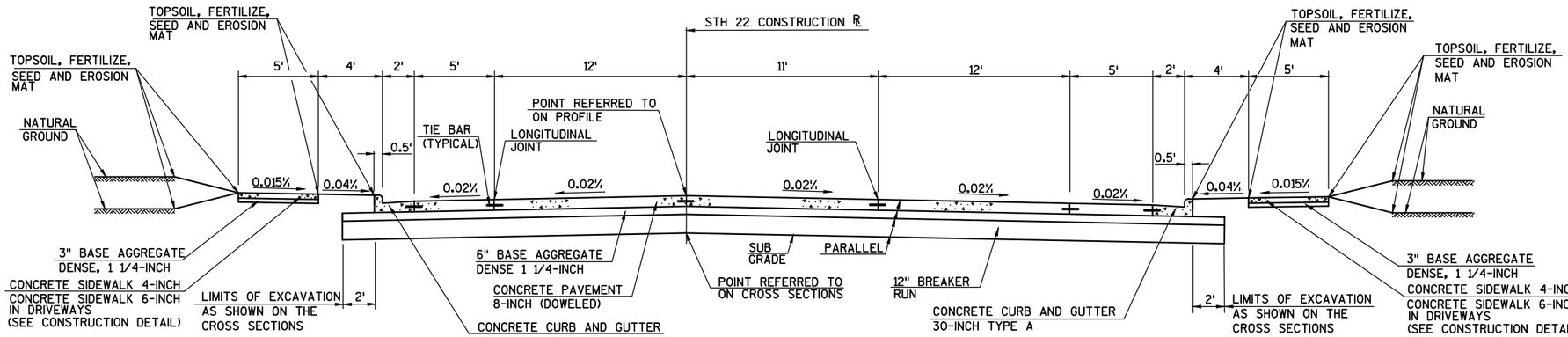
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 8	E



*-STA. 33+50 TO STA. 34+75
CROSS SLOPE VARIES.
(SEE PAVING GRADES)

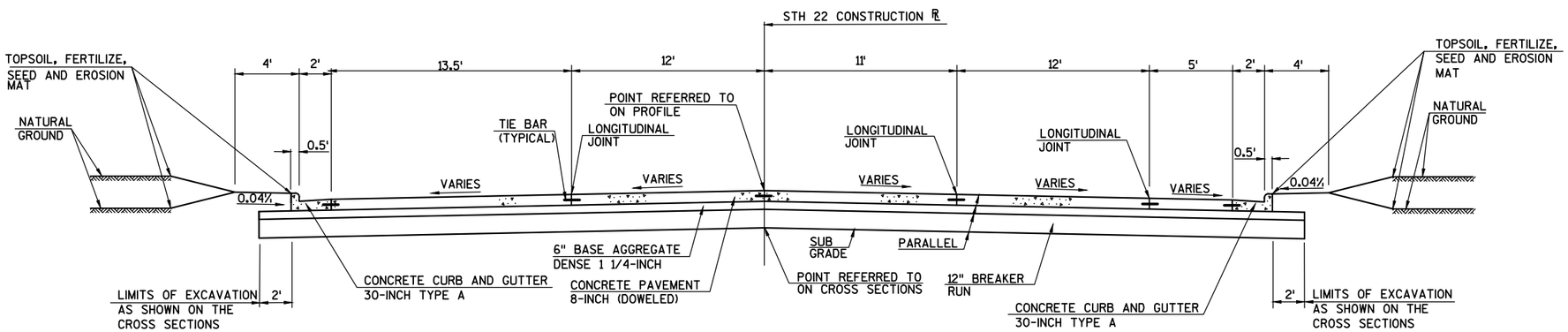
TYPICAL FINISHED CROSS SECTION FOR STH 22

STA 25+53.6 - STA. 44+12



TYPICAL FINISHED CROSS SECTION FOR STH 22

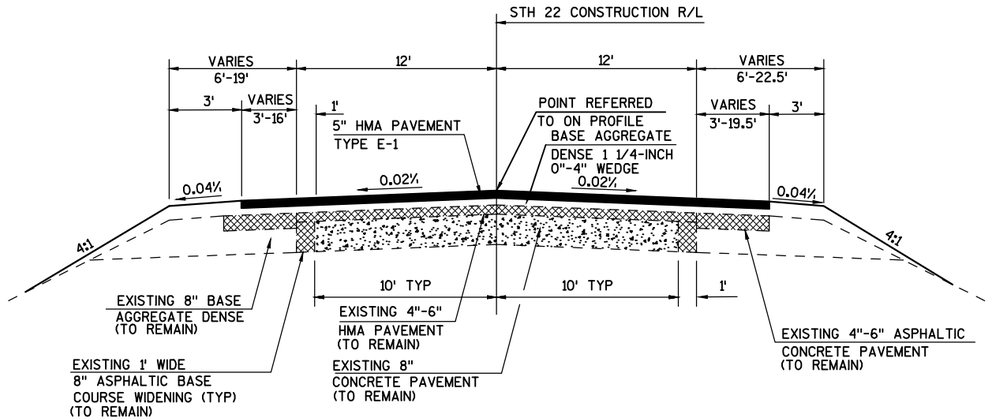
STA 44+12 - STA. 48+32.90



TYPICAL FINISHED CROSS SECTION FOR STH 22

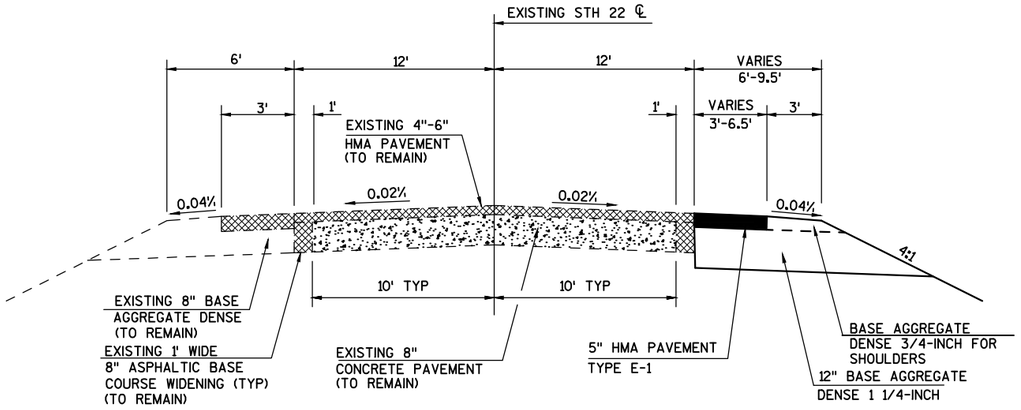
STA 48+32.90 - STA. 49+25

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 9	E



TYPICAL FINISHED CROSS SECTION FOR STH 22 TEMPORARY CONNECTION

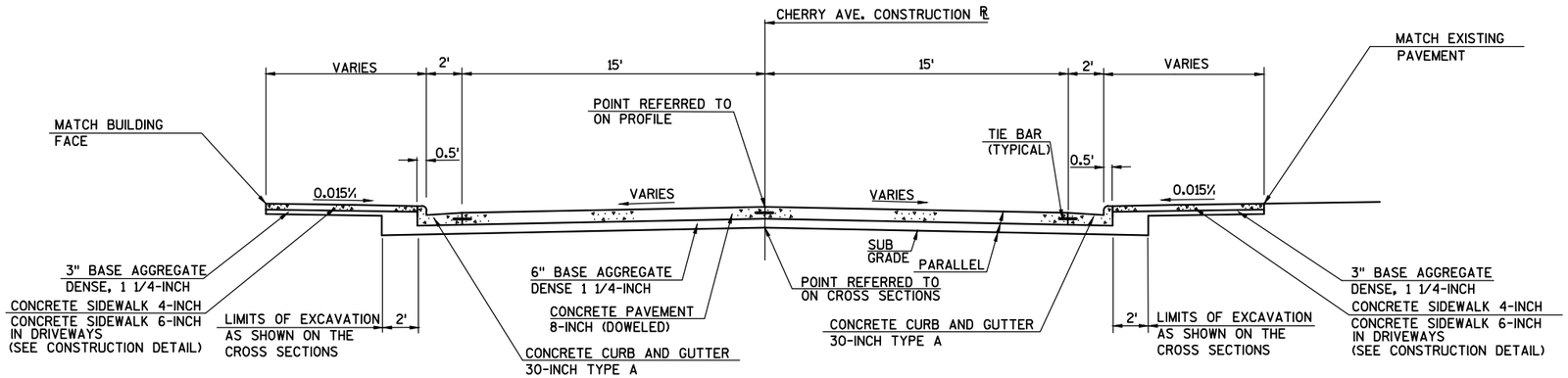
STA. 49+25 - STA. 50+25



TYPICAL FINISHED CROSS SECTION FOR STH 22 SHOULDER WIDENING

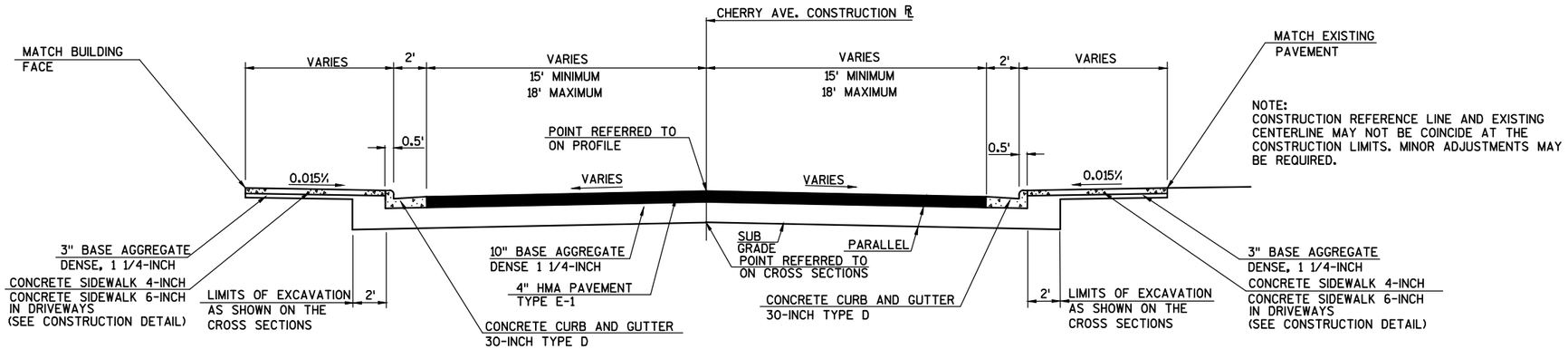
STA. 50+25 - STA. 51+00

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 10	E



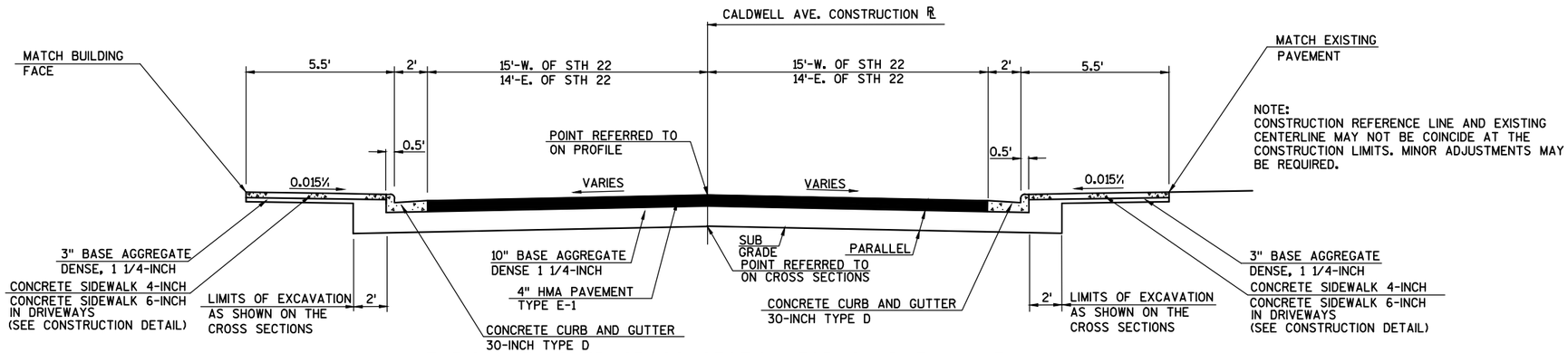
TYPICAL FINISHED CROSS SECTION FOR CHERRY AVE.

STA 10+15 - STA. 10+50



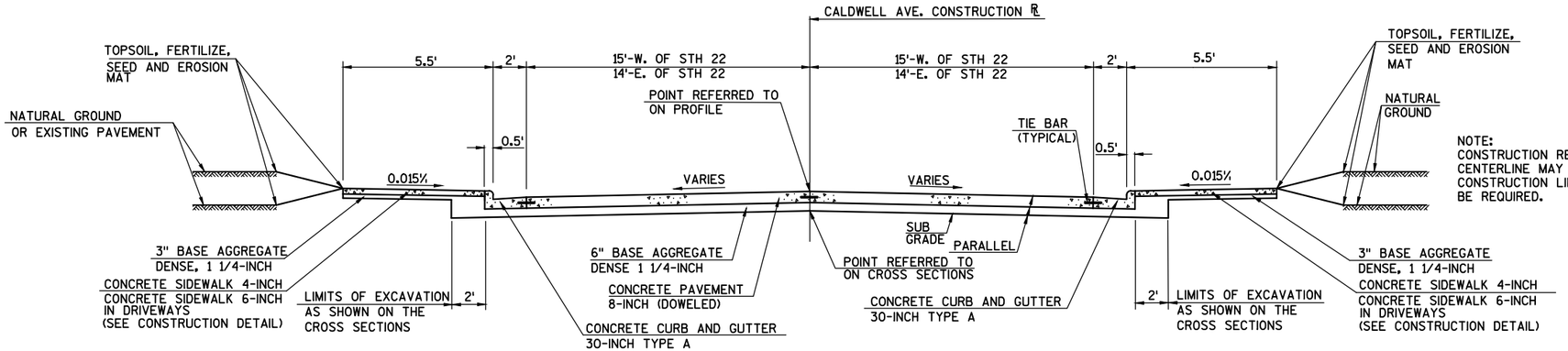
TYPICAL FINISHED CROSS SECTION FOR CHERRY AVE.

STA 10+50 - STA. 10+75



TYPICAL FINISHED CROSS SECTION FOR CALDWELL AVE.

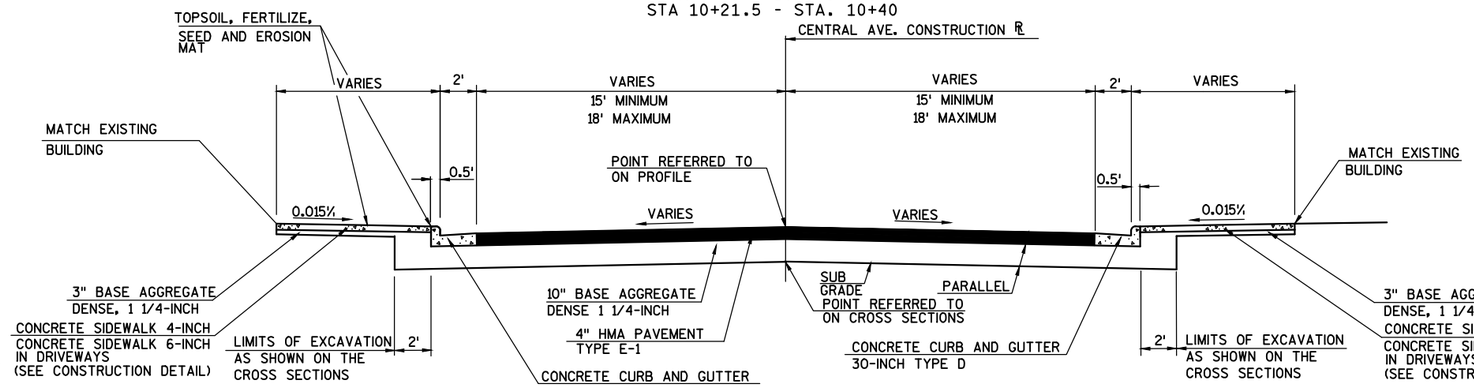
STA 9+61 - STA. 9+66
STA 10+40 - STA. 10+45



TYPICAL FINISHED CROSS SECTION FOR CALDWELL AVE.

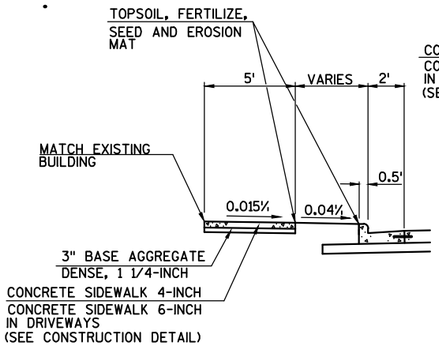
STA 9+66 - STA. 9+78.5
STA 10+21.5 - STA. 10+40

NOTE:
CONSTRUCTION REFERENCE LINE AND EXISTING CENTERLINE MAY NOT BE COINCIDE AT THE CONSTRUCTION LIMITS. MINOR ADJUSTMENTS MAY BE REQUIRED.



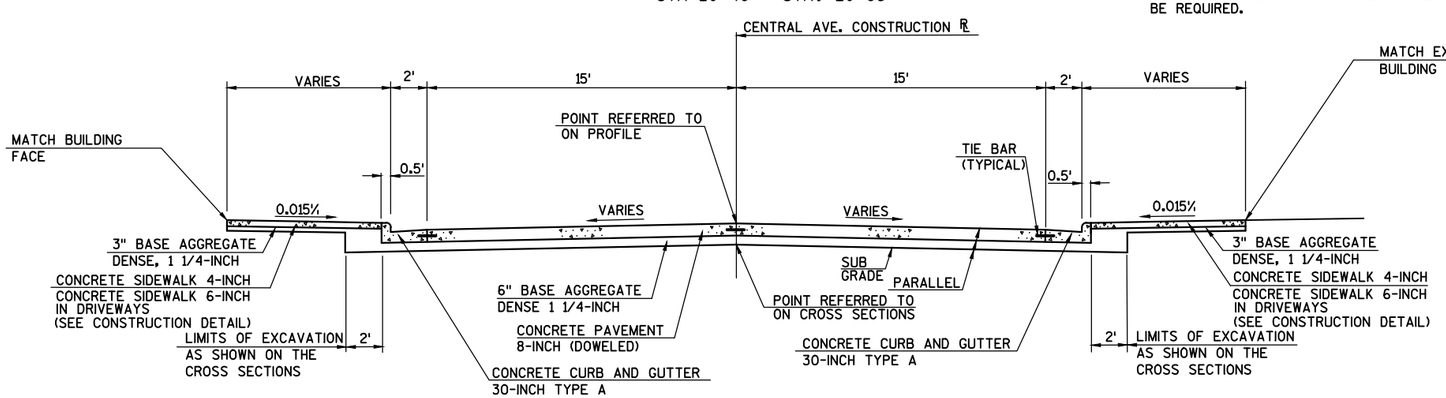
TYPICAL FINISHED CROSS SECTION FOR CENTRAL AVE.

STA 9+35 - STA. 9+53
STA 10+48 - STA. 10+65



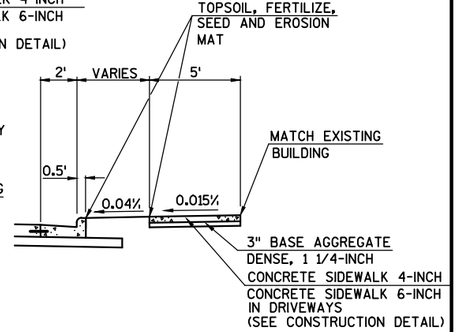
STA. 10+36.8 - STA. 10+65 LT.

CENTRAL AVE.



TYPICAL FINISHED CROSS SECTION FOR CENTRAL AVE.

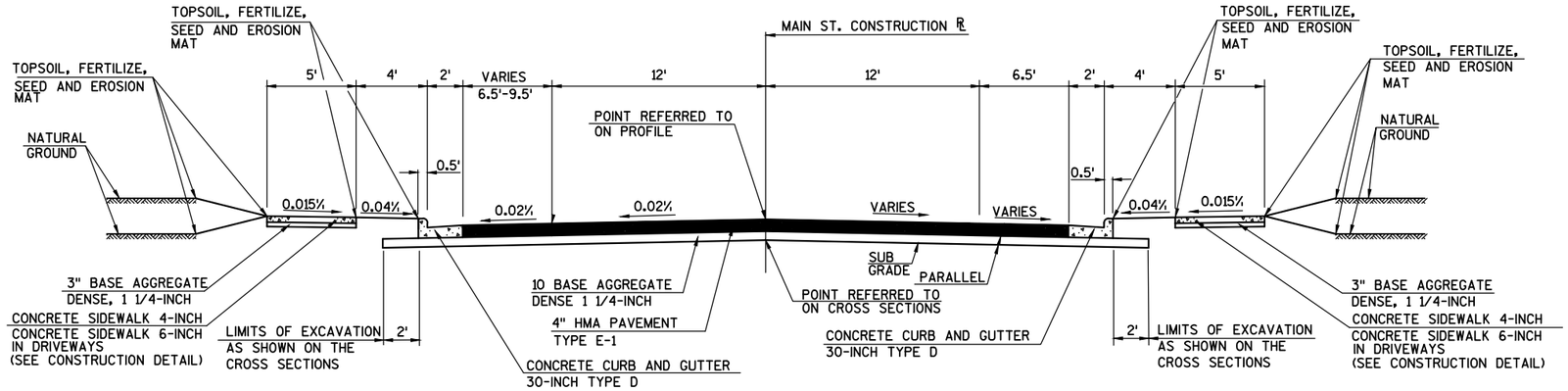
STA 9+53 - STA. 9+85
STA 10+15 - STA. 10+48



STA. 9+35 - STA. 9+72.9 RT.

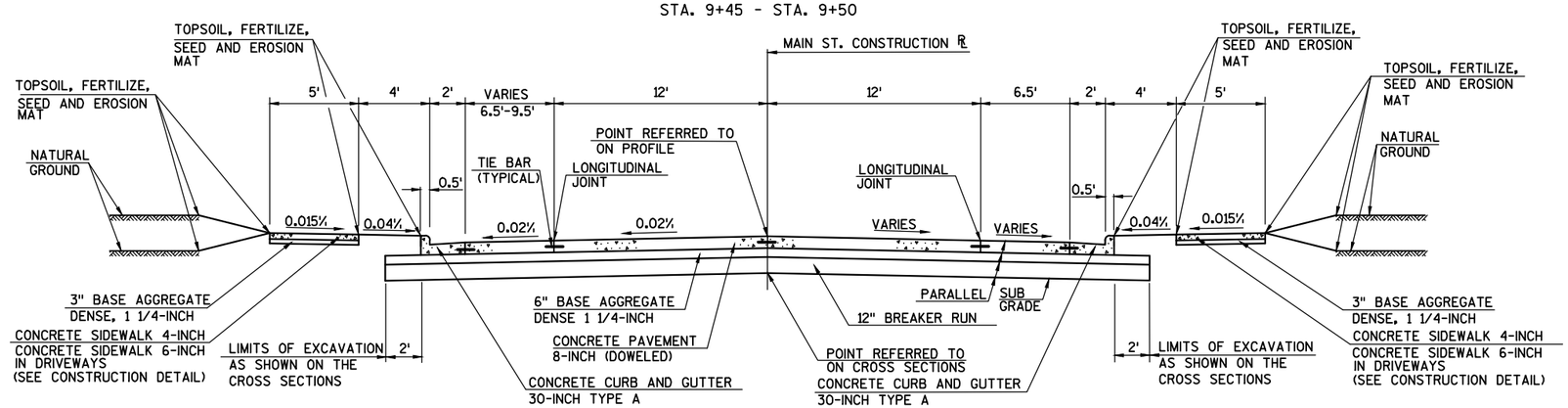
CENTRAL AVE.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 12	E



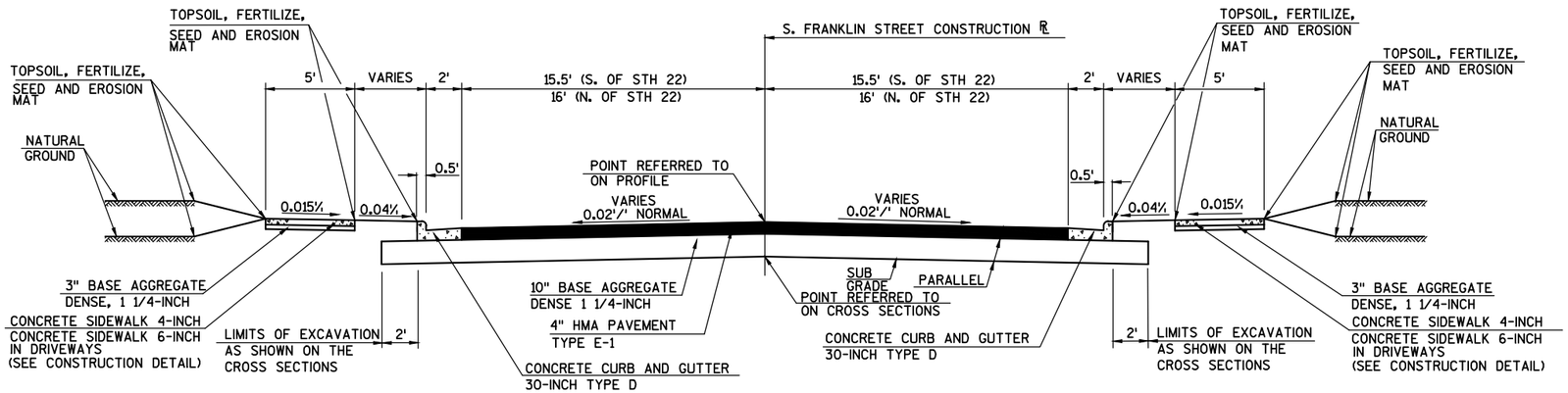
TYPICAL FINISHED CROSS SECTION FOR MAIN ST.

STA. 9+45 - STA. 9+50



TYPICAL FINISHED CROSS SECTION FOR MAIN ST.

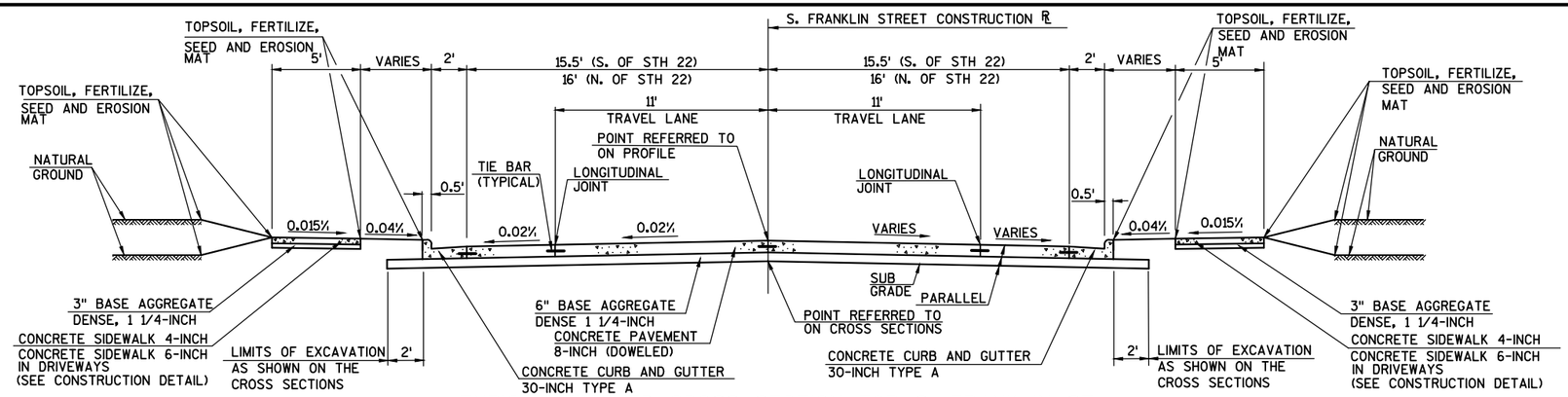
STA. 9+50 - STA. 10+00



TYPICAL FINISHED CROSS SECTION FOR S. FRANKLIN ST.

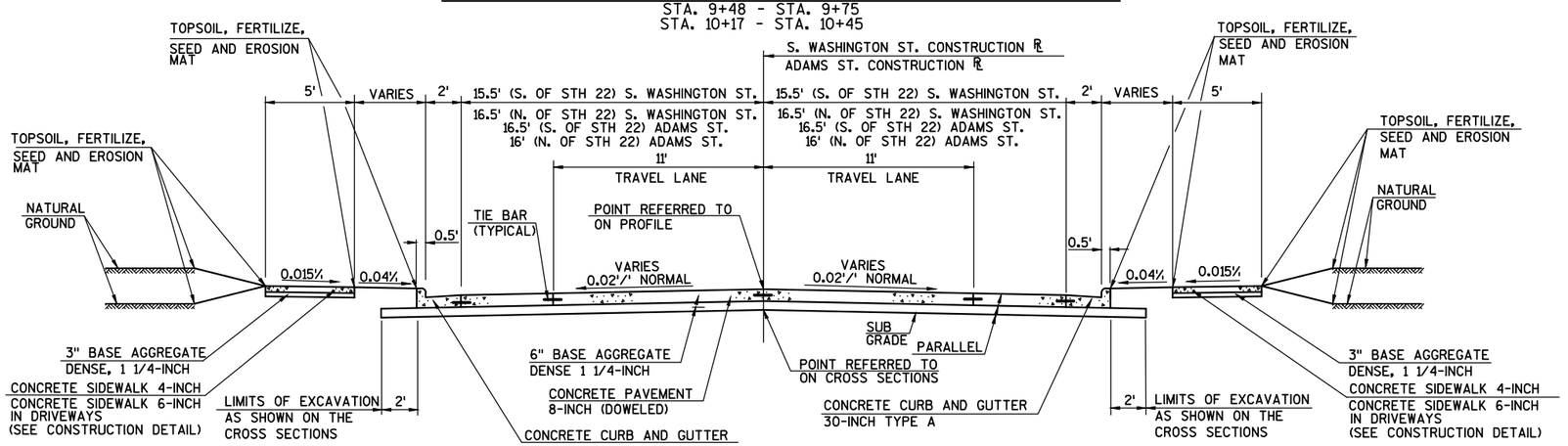
STA. 9+15 - STA. 9+48
STA. 10+45 - STA. 10+55

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 13	E



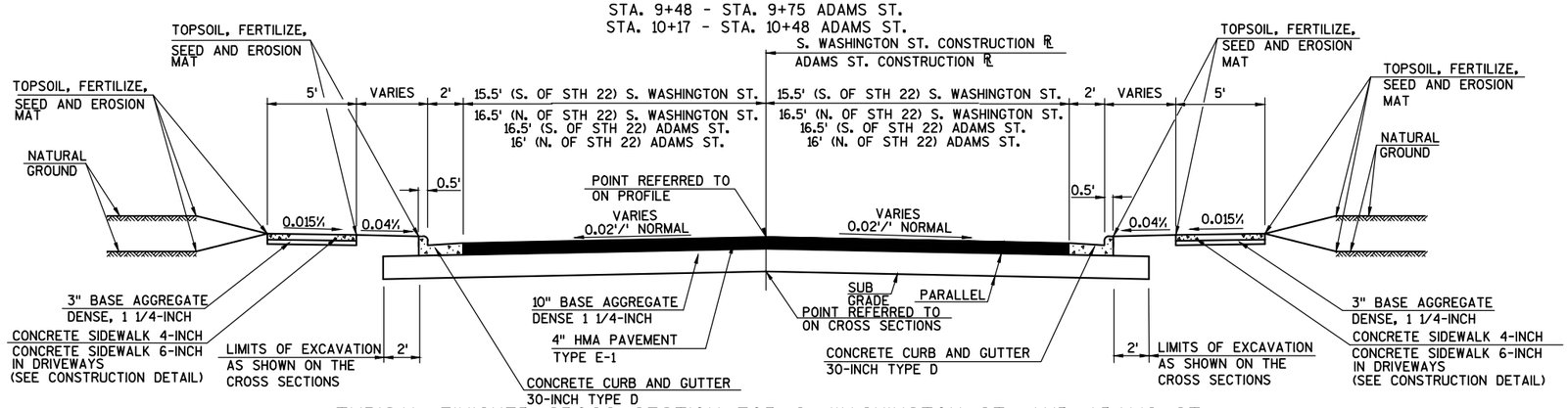
TYPICAL FINISHED CROSS SECTION FOR S. FRANKLIN ST.

STA. 9+48 - STA. 9+75
STA. 10+17 - STA. 10+45



TYPICAL FINISHED CROSS SECTION FOR S. WASHINGTON ST. AND ADAMS ST.

STA. 9+45 - STA. 9+75 S. WASHINGTON ST.
STA. 10+17 - STA. 10+45 S. WASHINGTON ST.
STA. 9+48 - STA. 9+75 ADAMS ST.
STA. 10+17 - STA. 10+48 ADAMS ST.



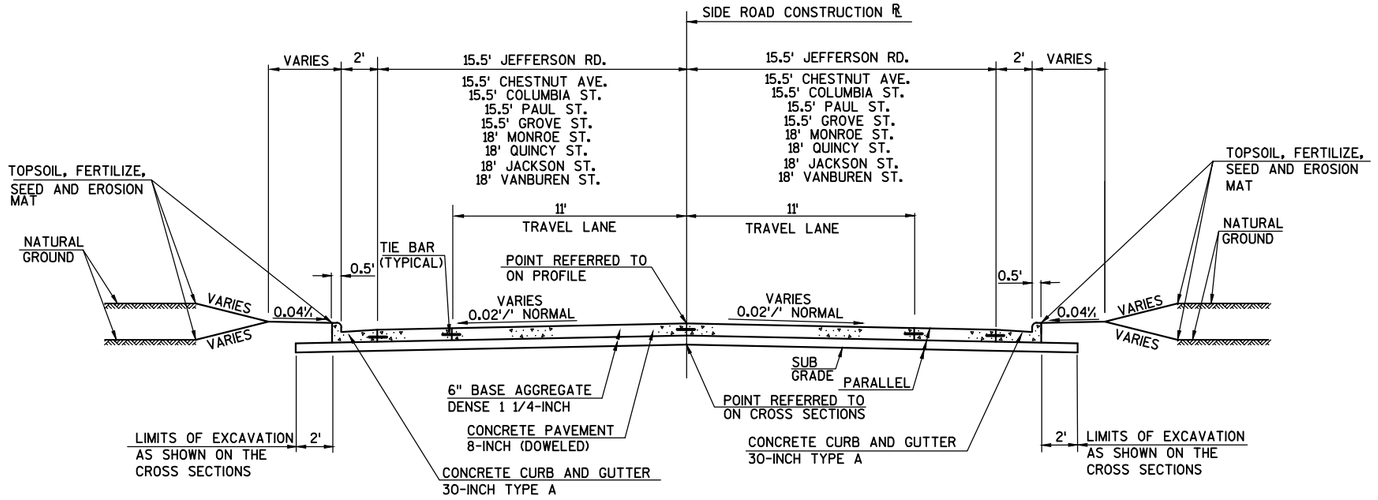
TYPICAL FINISHED CROSS SECTION FOR S. WASHINGTON ST. AND ADAMS ST.

STA. 9+25 - STA. 9+48 S. WASHINGTON ST.
STA. 10+45 - STA. 10+55 S. WASHINGTON ST.
STA. 9+20 - STA. 9+48 ADAMS ST.
STA. 10+48 - STA. 10+60 ADAMS ST.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 14	E

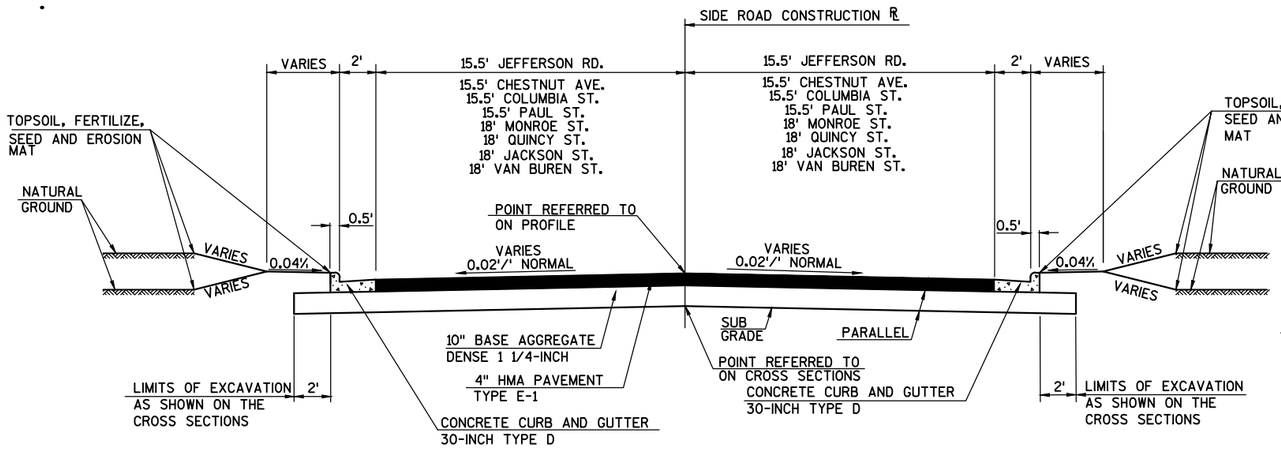
FILE NAME : N:\C3D\56022300\SHEETSPLAN\020311_TS.DWG PLOT DATE : 1/9/2015 7:54 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42



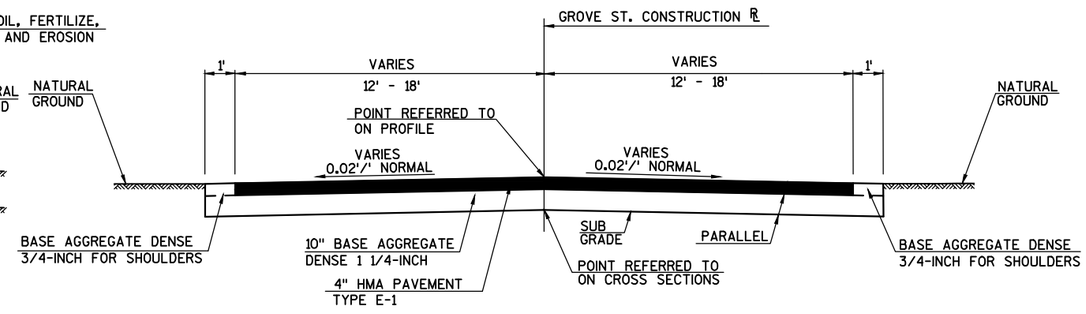
TYPICAL FINISHED CROSS SECTION FOR SIDE STREETS

STA. 10+17-STA. 10+45 JEFFERSON RD.
STA. 7+45-STA. 7+75 CHESTNUT AVE.
STA. 10+51-STA. 10+75 COLUMBIA ST.
STA. 10+17-STA. 10+50 PAUL ST.
STA. 10+17-STA. 10+55 GROVE ST.
STA. 9+50-STA. 9+83 MONROE ST.
STA. 9+50-STA. 9+83 JACKSON (WEST)
STA. 10+17-STA. 10+55 JACKSON (EAST)
STA. 9+50 - STA. 9+83 VAN BUREN ST.



TYPICAL FINISHED CROSS SECTION FOR SIDE STREETS

STA. 10+45-STA. 10+70 JEFFERSON RD.
STA. 7+30-STA. 7+45 CHESTNUT AVE.
STA. 10+75-STA. 10+90 COLUMBIA ST.
STA. 10+50-STA. 11+00 PAUL ST.
STA. 9+05-STA. 9+50 MONROE ST.
STA. 9+40-STA. 9+50 JACKSON (WEST)
STA. 10+55-STA. 10+65 JACKSON (EAST)
STA. 9+40 - STA. 9+50 VAN BUREN ST.

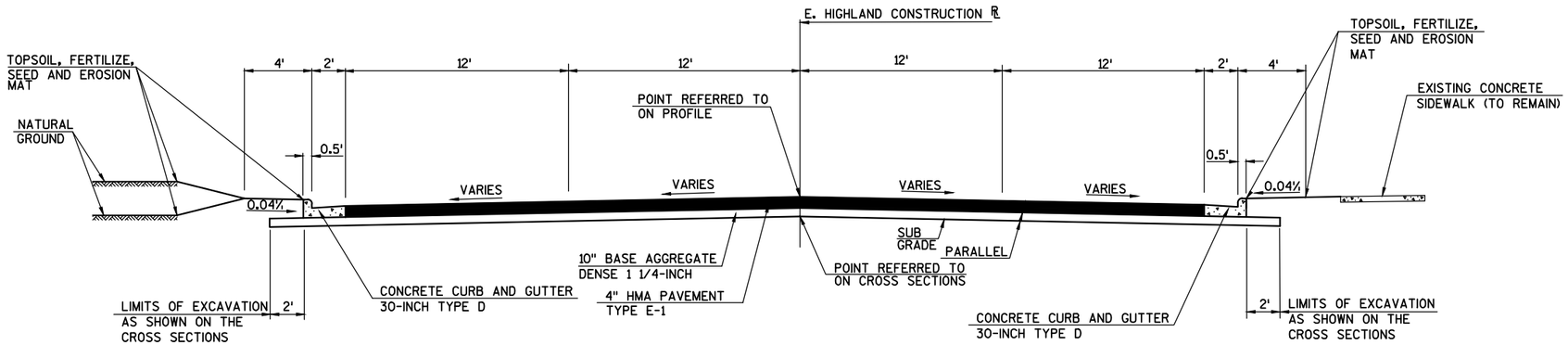


TYPICAL FINISHED CROSS SECTION FOR GROVE ST.

STA. 10+55-STA. 10+75 GROVE ST.

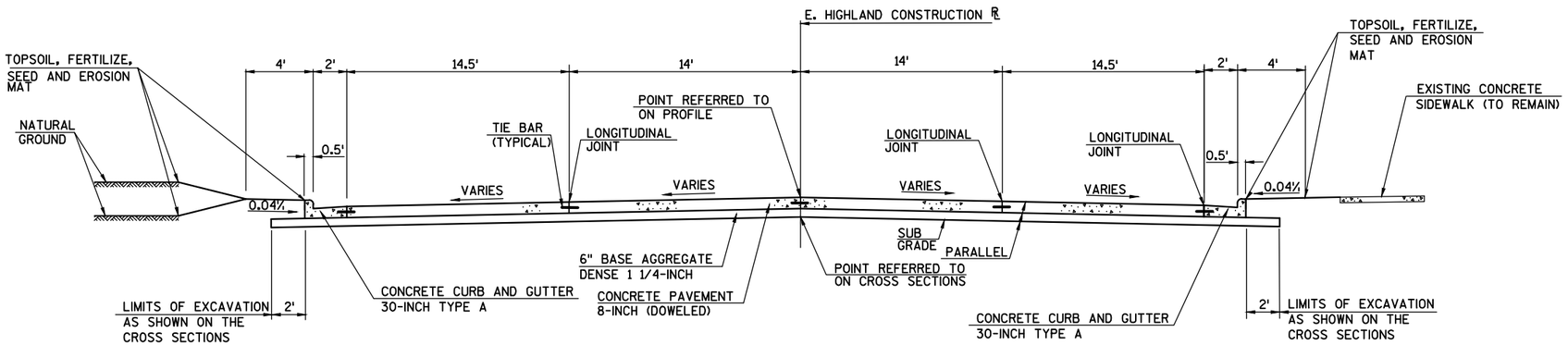
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET 15	E

2



TYPICAL FINISHED CROSS SECTION FOR E. HIGHLAND DR.

STA 9+00 - STA. 9+15



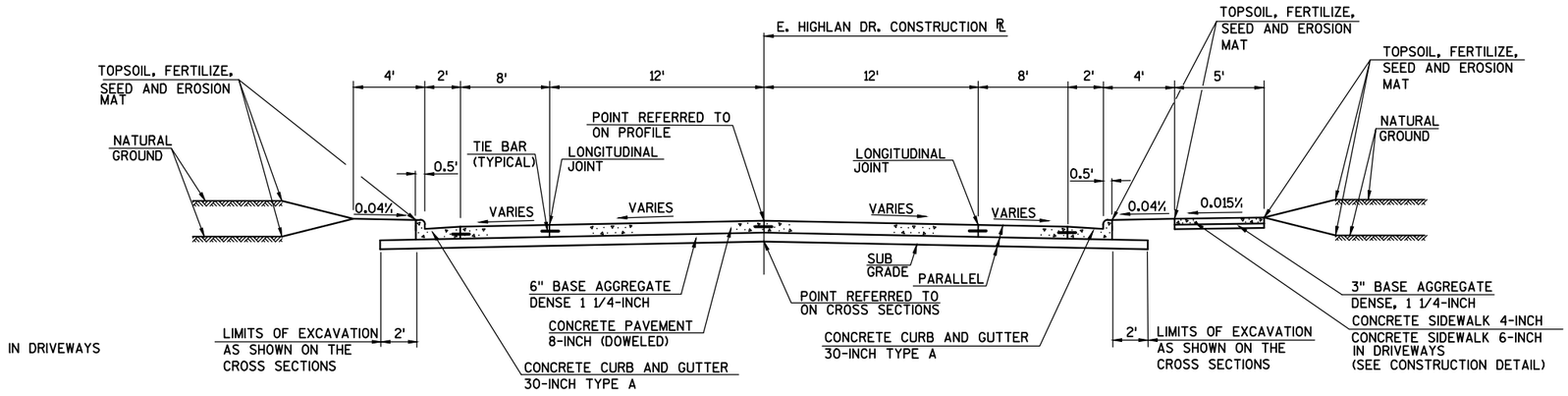
TYPICAL FINISHED CROSS SECTION FOR E. HIGHLAND DR.

STA 9+15 - STA. 9+83

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TYPICAL SECTIONS	SHEET	E

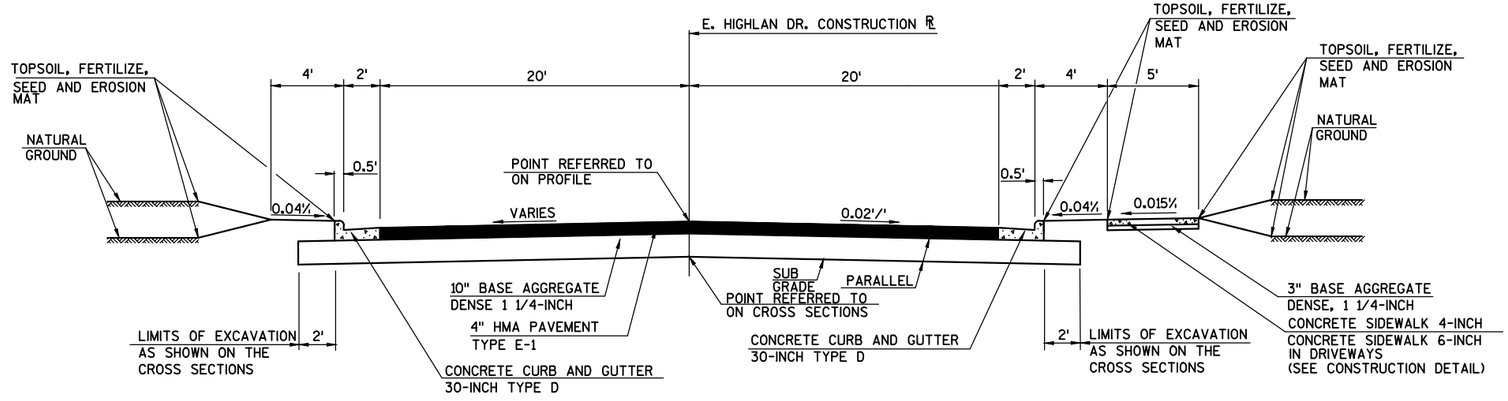
FILE NAME : N:\C3D\56022300\SHEETSPLAN\020313_TS.DWG PLOT DATE : 1/9/2015 7:54 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2



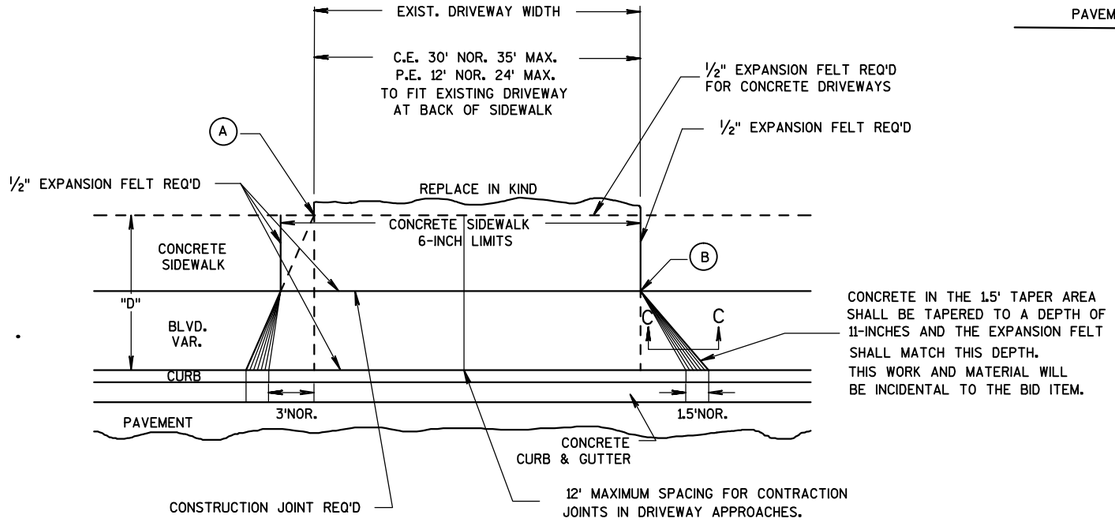
TYPICAL FINISHED CROSS SECTION FOR E. HIGHLAND

STA 10+28 - STA. 11+20



TYPICAL FINISHED CROSS SECTION FOR E. HIGHLAND

STA 11+20 - STA. 11+25

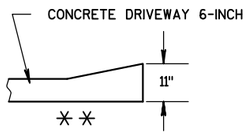


CONCRETE IN THE 1.5' TAPER AREA SHALL BE TAPERED TO A DEPTH OF 11-INCHES AND THE EXPANSION FELT SHALL MATCH THIS DEPTH. THIS WORK AND MATERIAL WILL BE INCIDENTAL TO THE BID ITEM.

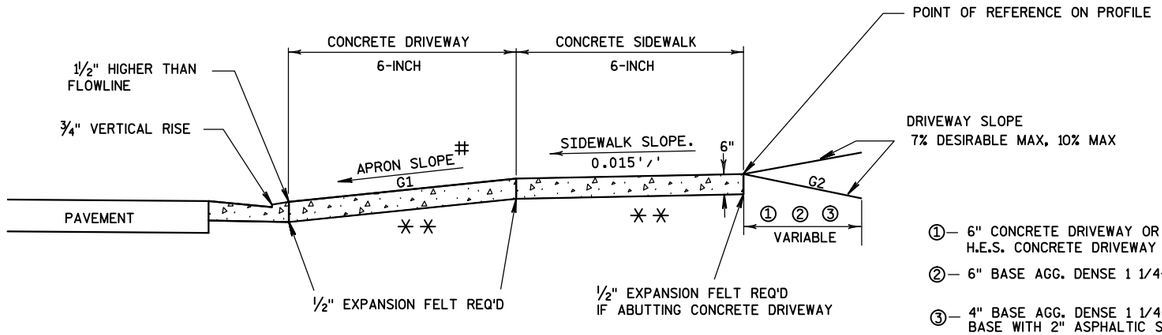
PLAN VIEW

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

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



SECTION C-C



TYPICAL SIDEWALK SECTION

① — 6" CONCRETE DRIVEWAY OR H.E.S. CONCRETE DRIVEWAY

② — 6" BASE AGG. DENSE 1 1/4-INCH

③ — 4" BASE AGG. DENSE 1 1/4-INCH BASE WITH 2" ASPHALTIC SURFACE

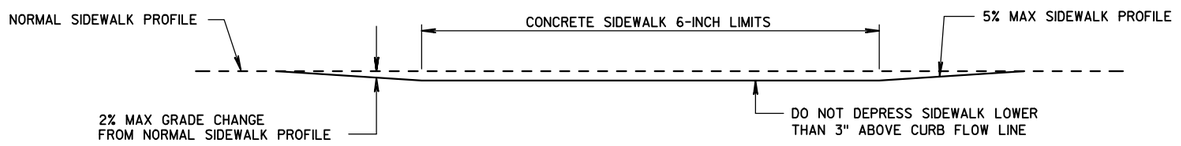
✳✳ = 6" BASE AGG. DENSE 1 1/4-INCH REQ'D UNDER CONCRETE DRWY

#

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

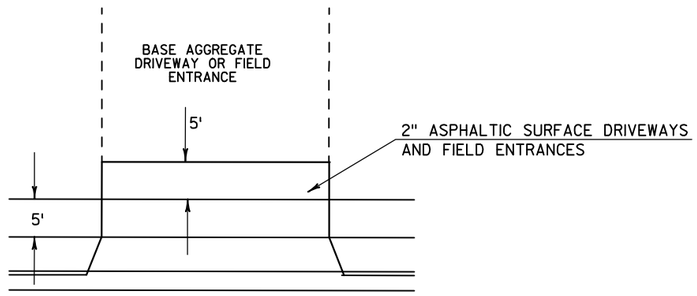
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE

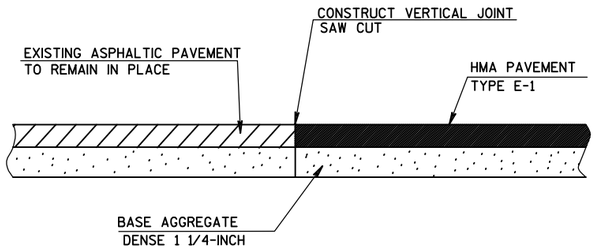


DEPRESSED SIDEWALK PROFILE DETAIL

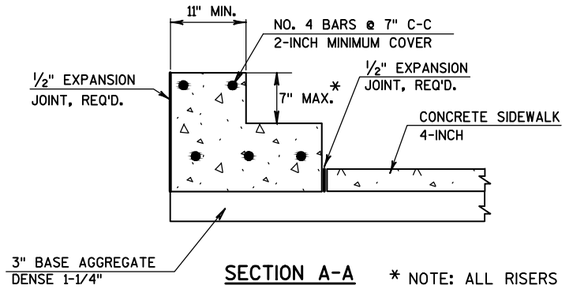
DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB AND GUTTER



ADDITIONAL ASPHALTIC SURFACE FOR BASE AGGREGATE DENSE DRIVEWAYS

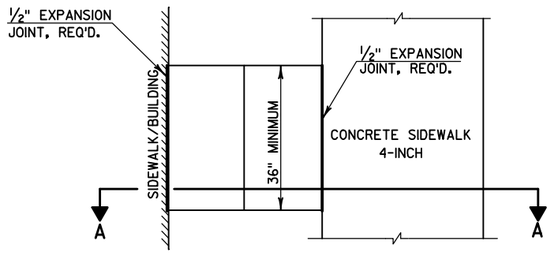


SAW CUT DETAIL FOR EXISTING SIDE STREET CONSTRUCTION LIMITS



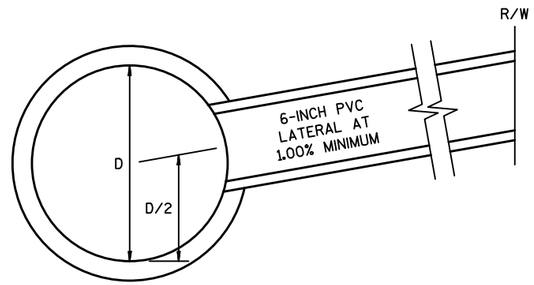
SECTION A-A

* NOTE: ALL RISERS SHALL BE EQUAL IN HEIGHT.

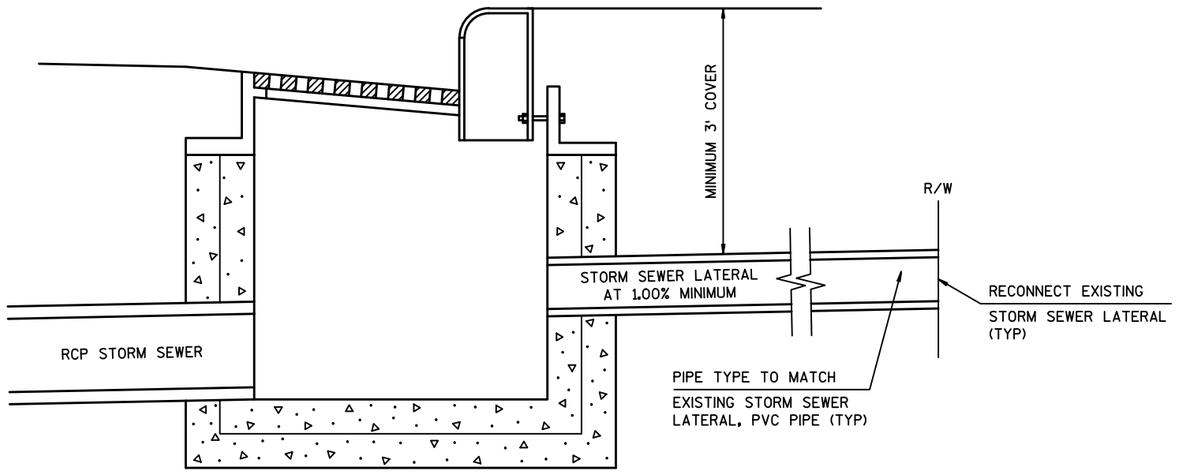


CONCRETE STEPS DETAILS

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

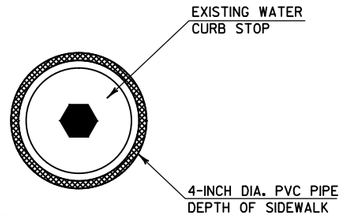


RESIDENTIAL STORM SEWER LATERAL, PIPE CONNECTION DETAIL



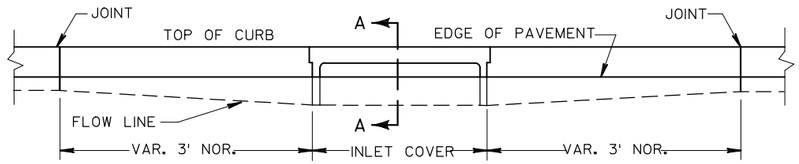
NOTE: ALL LABOR AND MATERIALS NECESSARY FOR CONNECTION TO STORM SEWER SHALL BE INCIDENTAL TO THE BID ITEM OF RECONNECT STORM SEWER LATERALS.

RECONNECT STORM SEWER LATERAL DETAIL

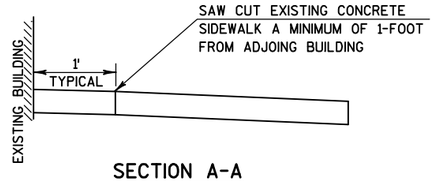


NOTE:
COST OF PVC PIPE IS
INCIDENTAL TO ITEMS
OF CONCRETE SIDEWALK

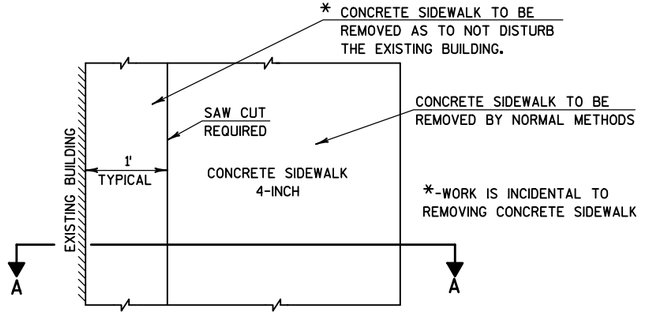
DETAIL FOR WATER CURB STOP IN SIDEWALK



ELEVATION

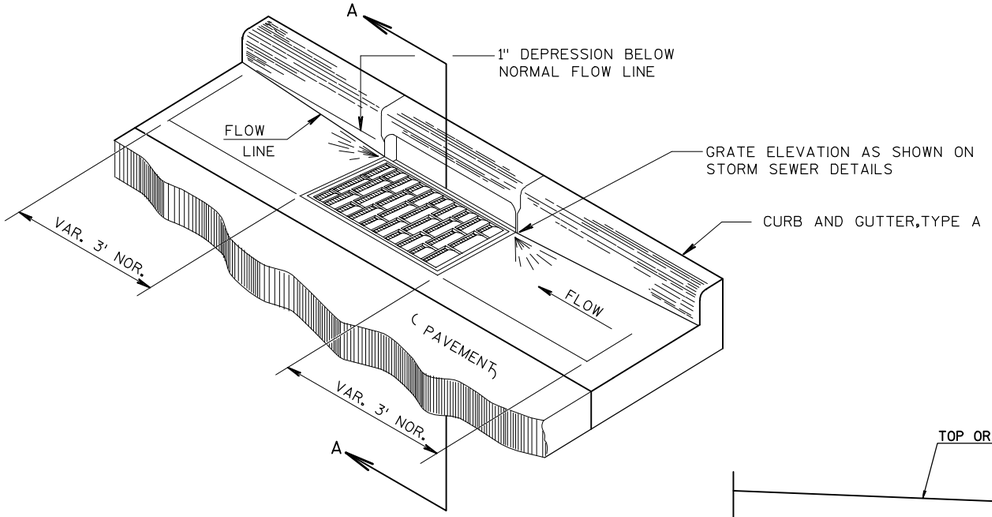


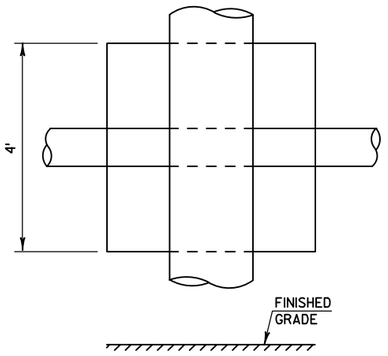
SECTION A-A

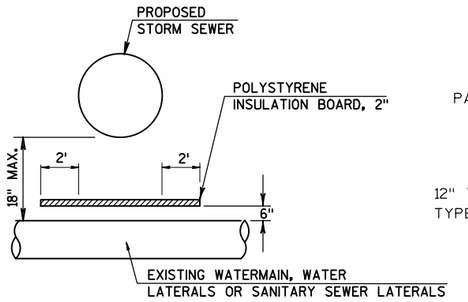


SAW CUTTING CONCRETE SIDEWALK AT BUILDINGS

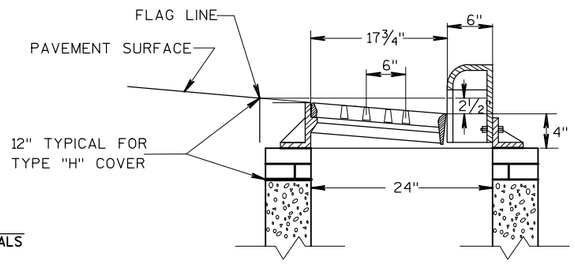
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)







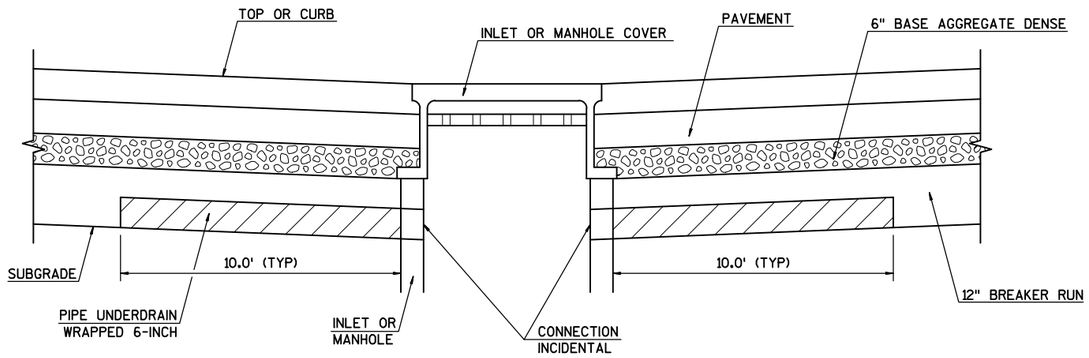
INSULATION DETAIL



SECTION A-A

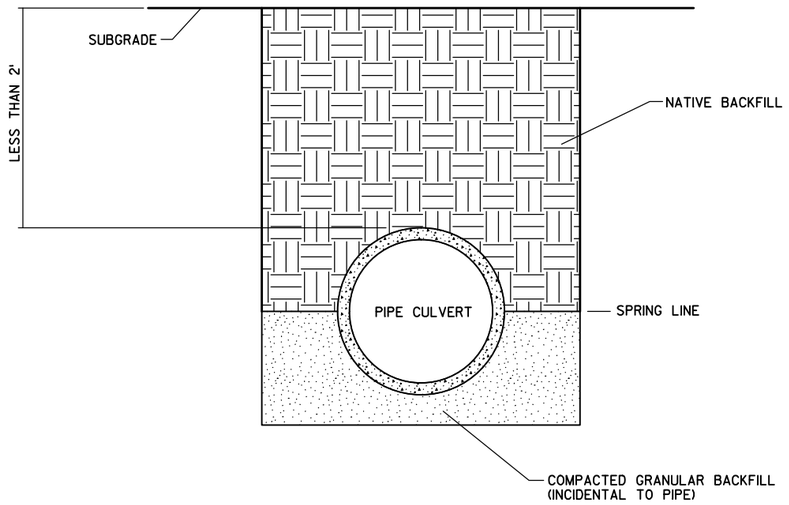
DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-H INLET SHOWN)



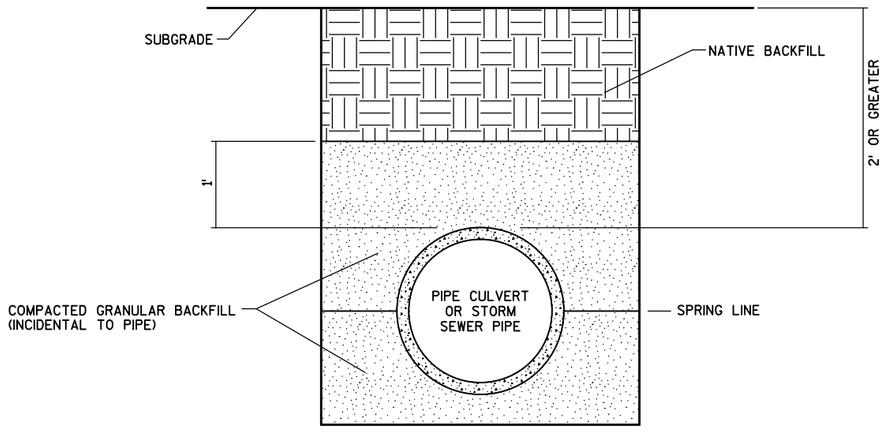
PIPE UNDERDRAIN DETAIL

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



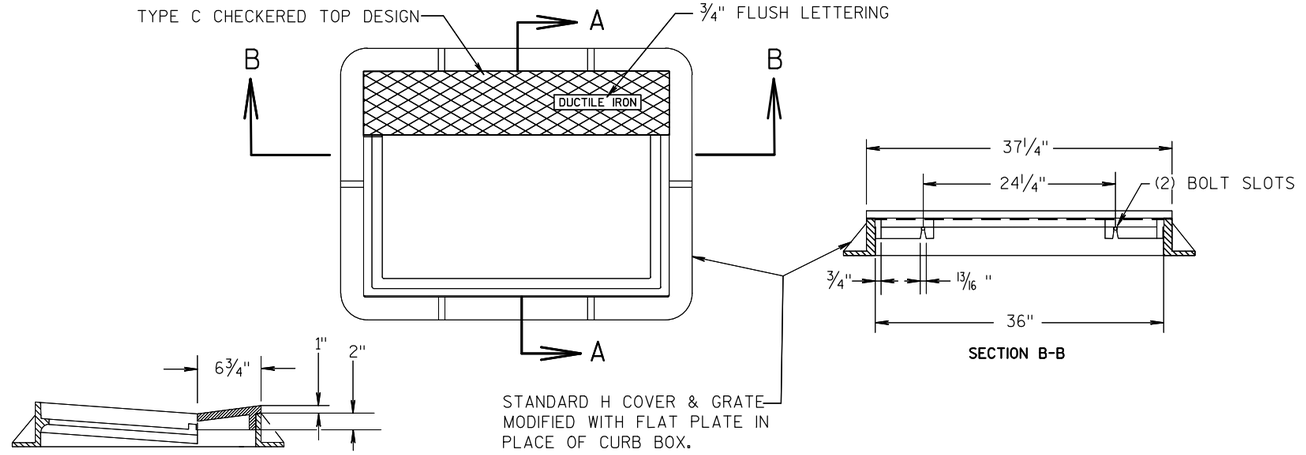
TRENCH BACKFILL DETAIL FOR SHALLOW PIPE CULVERTS

NOTE:
NATIVE BACKFILL SHALL BE FREE
OF LARGE LUMPS, CLODS, OR ROCK.



TRENCH BACKFILL DETAIL FOR NORMAL DEPTH PIPE CULVERTS AND STORM SEWER PIPE INSTALLATIONS

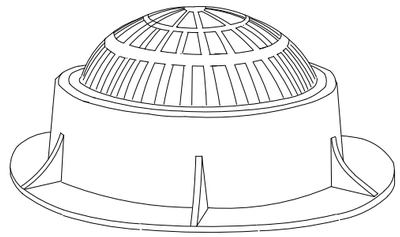
NOTE:
NATIVE BACKFILL SHALL BE FREE
OF LARGE LUMPS, CLODS, OR ROCK.

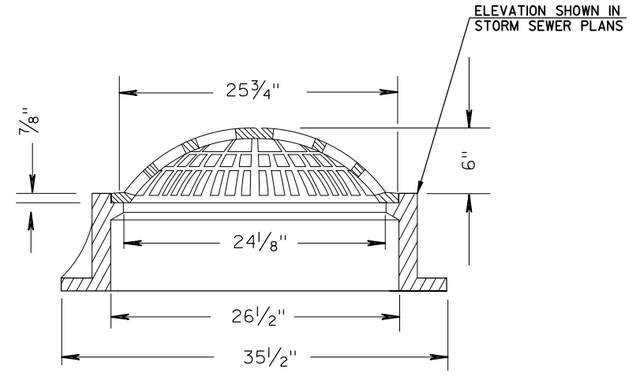


APPROXIMATE WT. (375 LBS.)

INLET COVER TYPE H-D

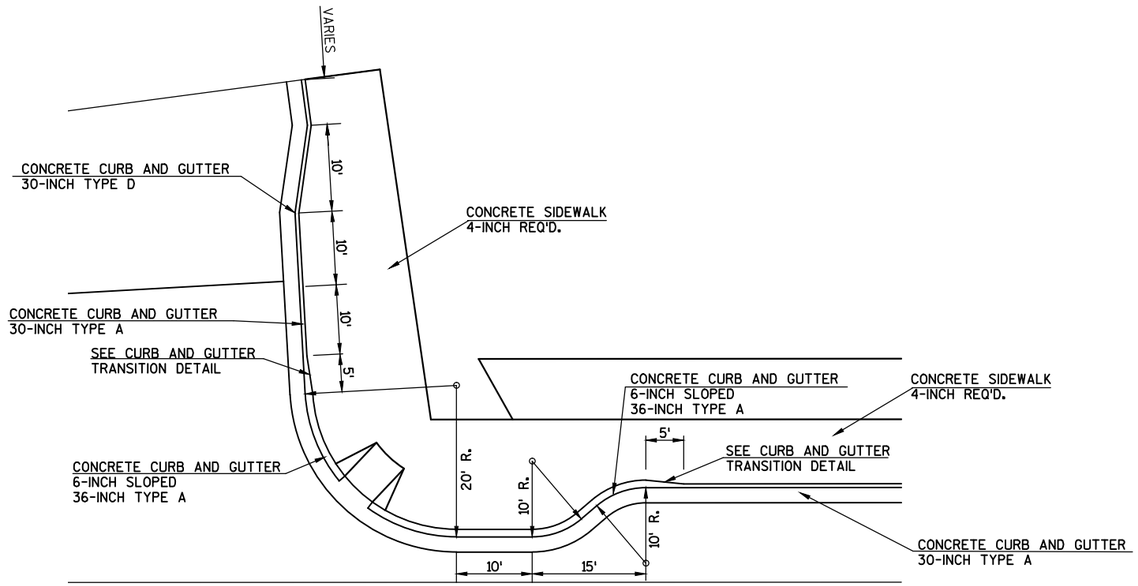
(WITH MOUNTABLE CURB PLATE)



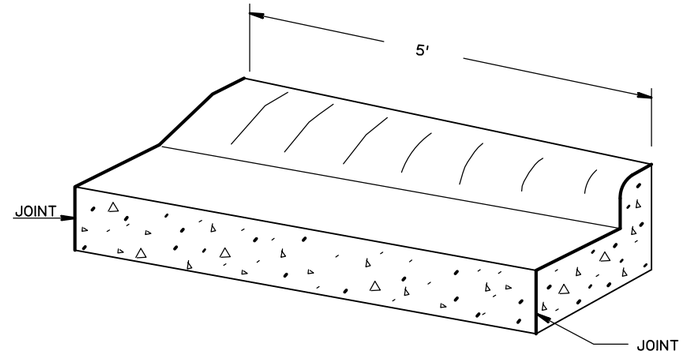


INLET COVER TYPE BH

Wt = 350 lbs.



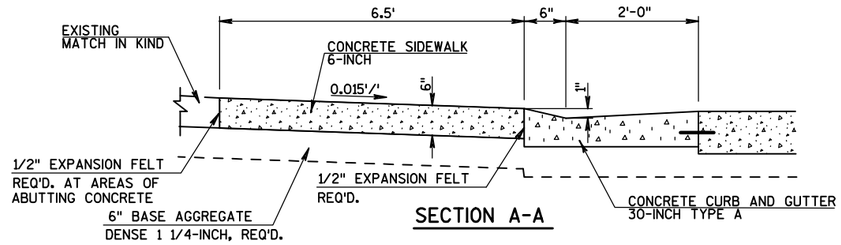
CONSTRUCTION DETAIL AT BUMP OUTS



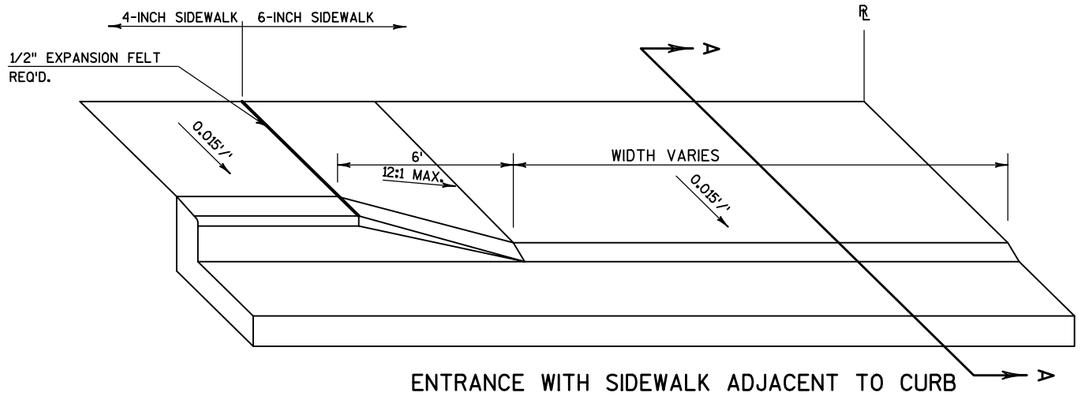
CONCRETE CURB AND GUTTER TRANSITION DETAIL

CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A TO CONCRETE CURB AND GUTTER 30-INCH TYPE A

(TO BE MEASURED AND PAID FOR AS CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A)

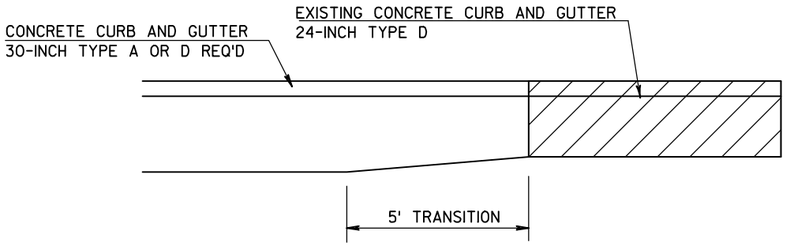


SECTION A-A

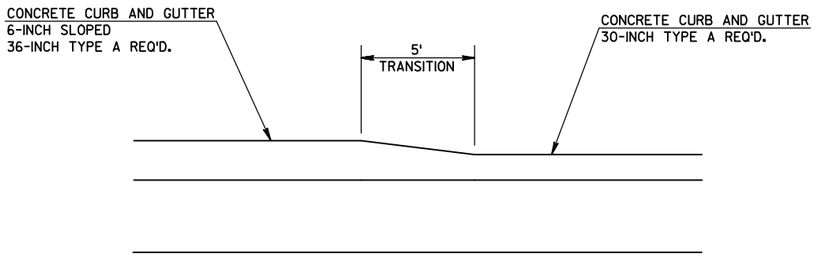


ENTRANCE WITH SIDEWALK ADJACENT TO CURB

STA. 440+91 - STA. 456+10

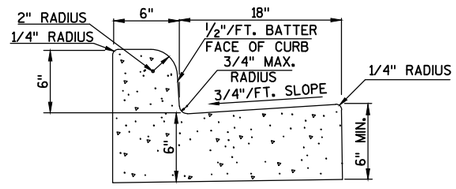


CONCRETE CURB AND GUTTER TRANSITION DETAIL



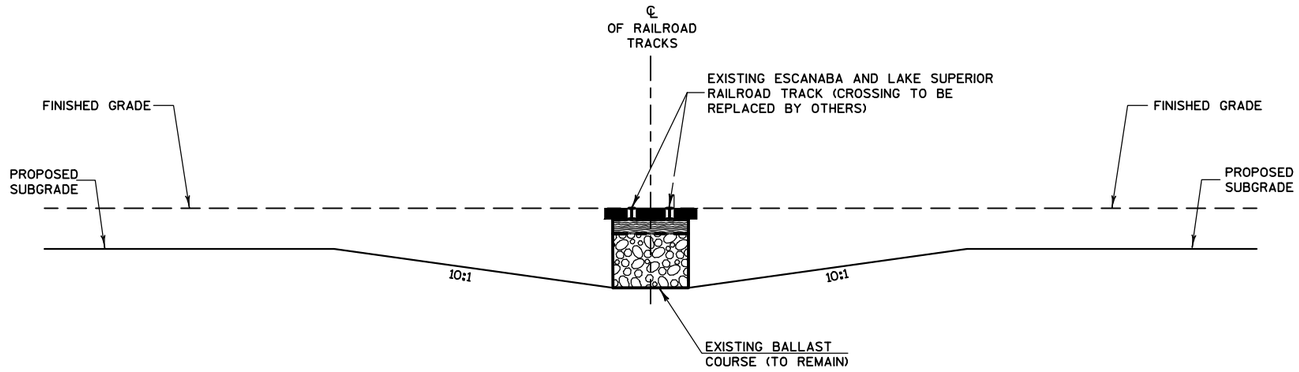
CONCRETE CURB AND GUTTER TRANSITION DETAIL

SEE PLAN DETAIL SHEETS FOR LOCATION



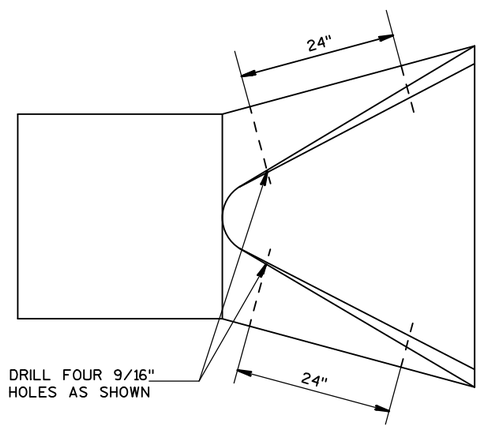
DETAIL FOR CONCRETE CURB AND GUTTER 24-INCH TYPE D

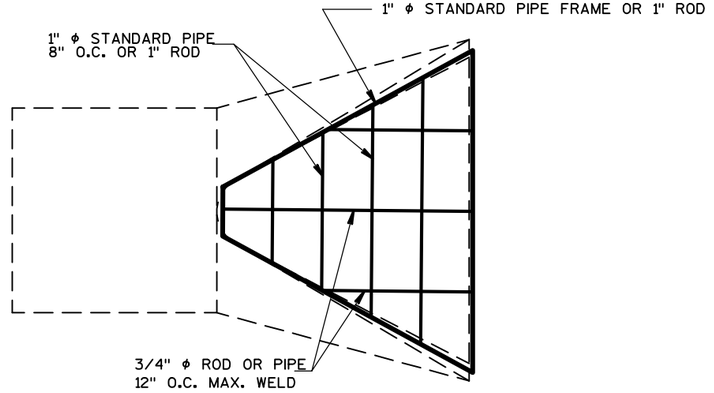
2



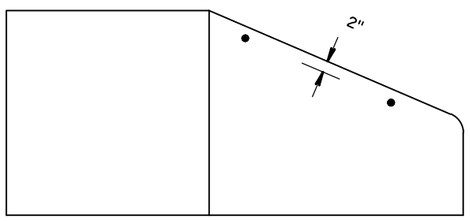
CONSTRUCTION DETAIL FOR RAILROAD CROSSINGS

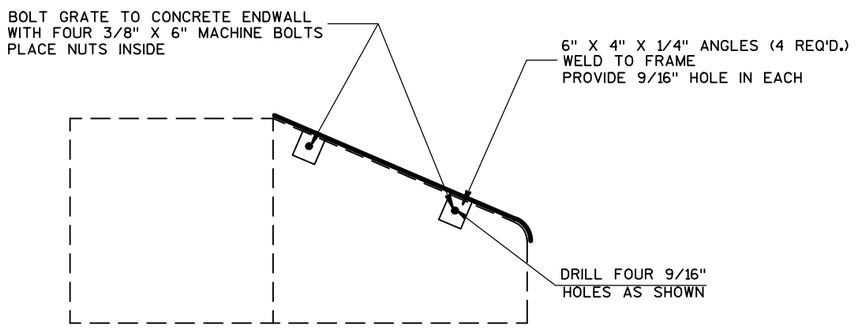
(NOT TO SCALE)

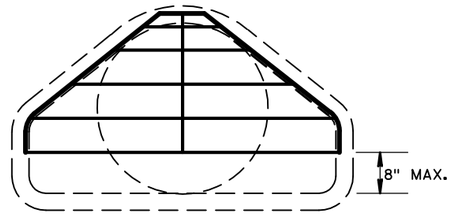




AT EACH PIPE

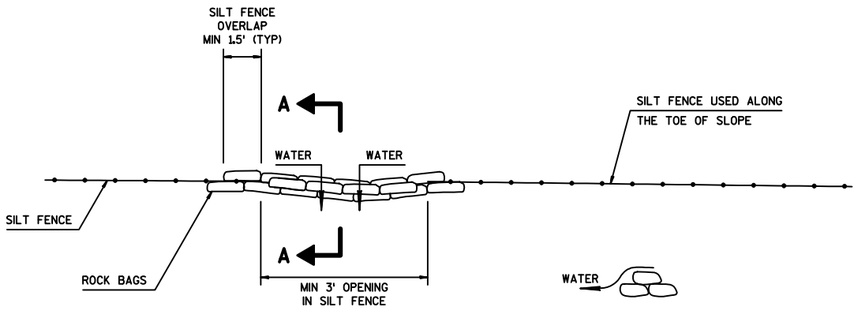






PIPE GRATE DETAIL

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

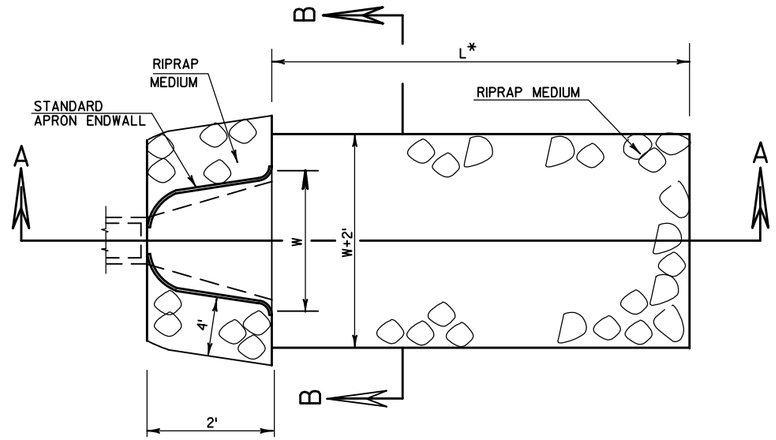


TOP VIEW

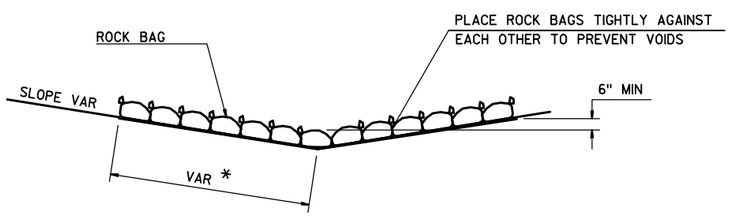
SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

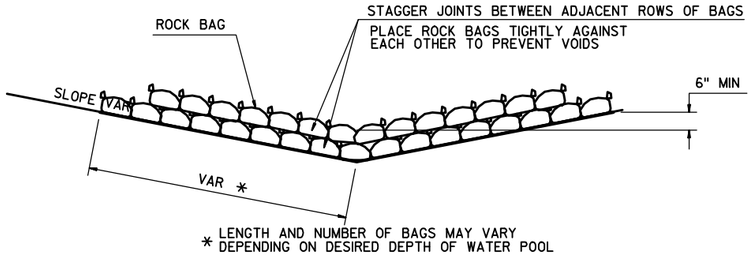
PAID AS ROCK BAGS



*L = 3 TIMES DIAMETER (NORMAL) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER



SIDE VIEW (SINGLE LAYER)

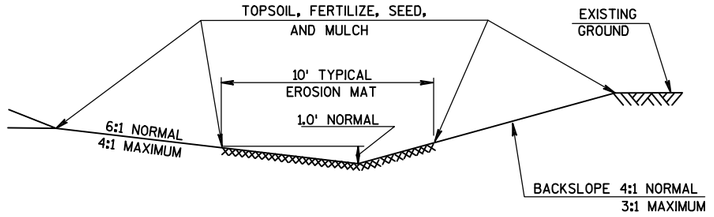


SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS

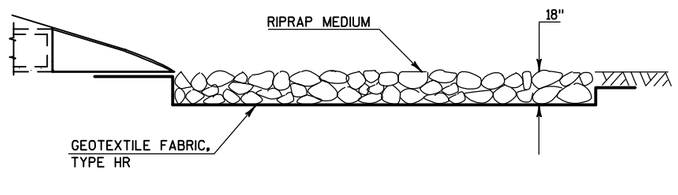
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



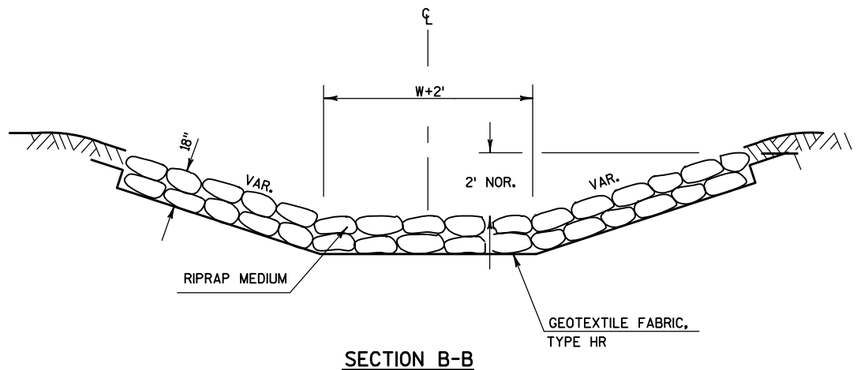
TYPICAL INSTALLATION FOR EROSION MAT

DITCH LINING

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



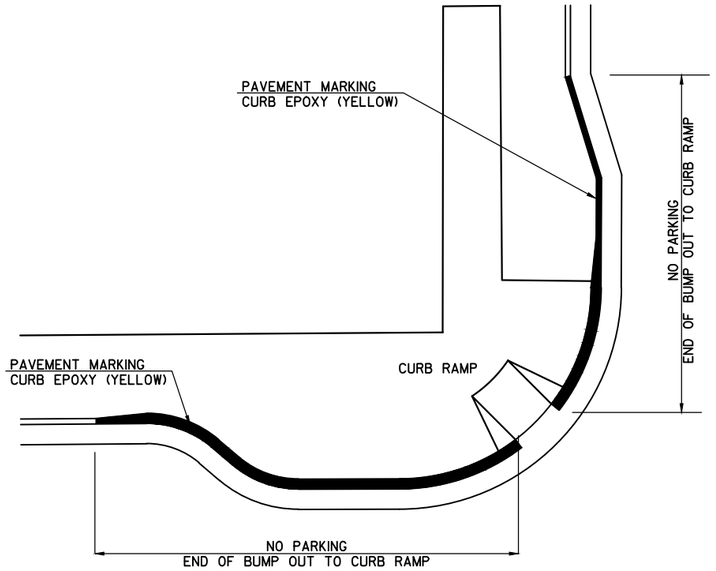
SECTION A-A



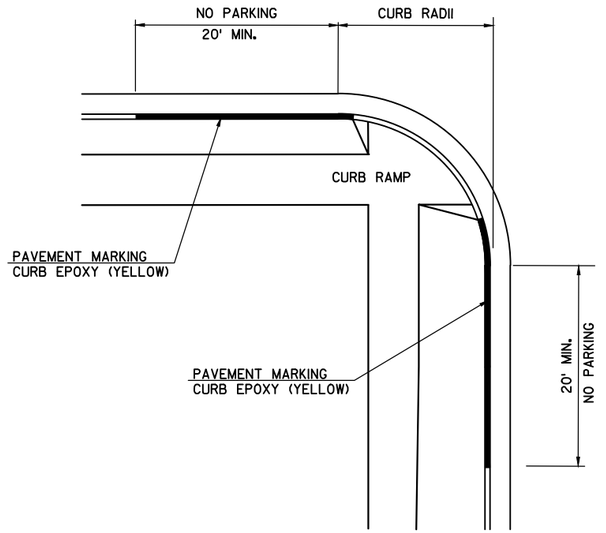
SECTION B-B

RIPRAP MEDIUM AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

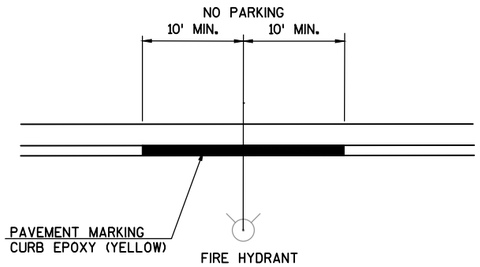
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



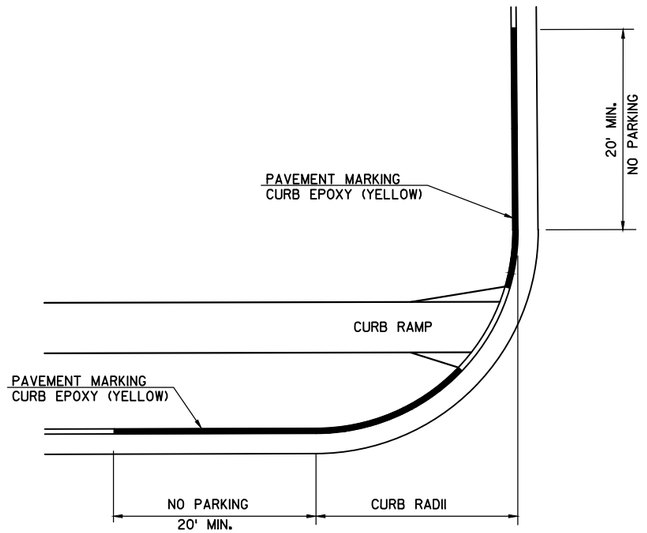
PAVEMENT MARKING CURB EPOXY AT BUMP OUTS



PAVEMENT MARKING CURB EPOXY AT CURB RADII

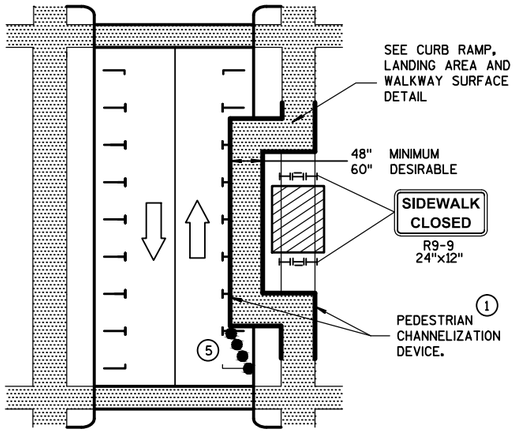


PAVEMENT MARKING CURB EPOXY AT FIRE HYDRANTS



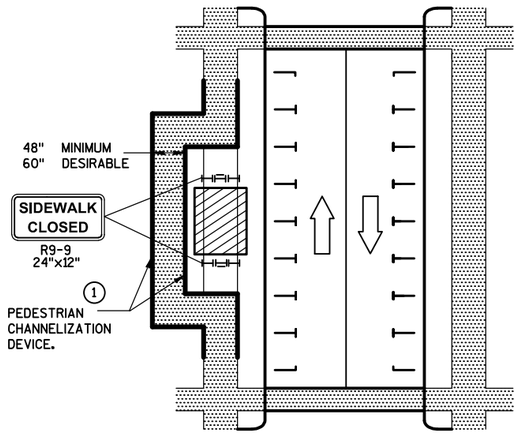
PAVEMENT MARKING CURB EPOXY AT CURB RADII

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

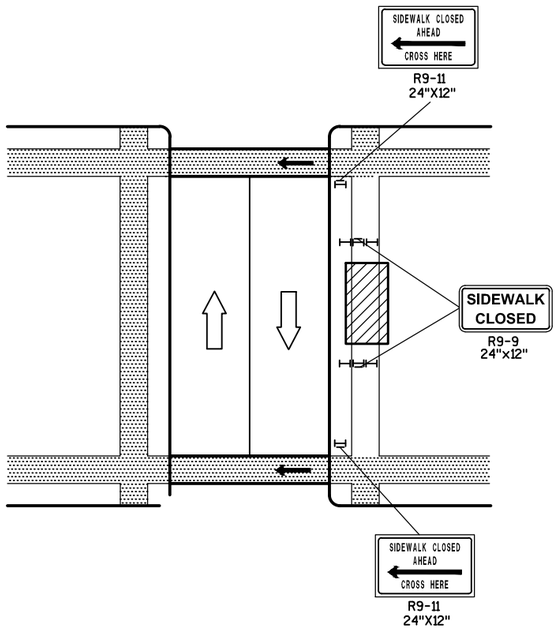


MID-BLOCK SIDEWALK CLOSURE WITH TEMPORARY WALKWAY

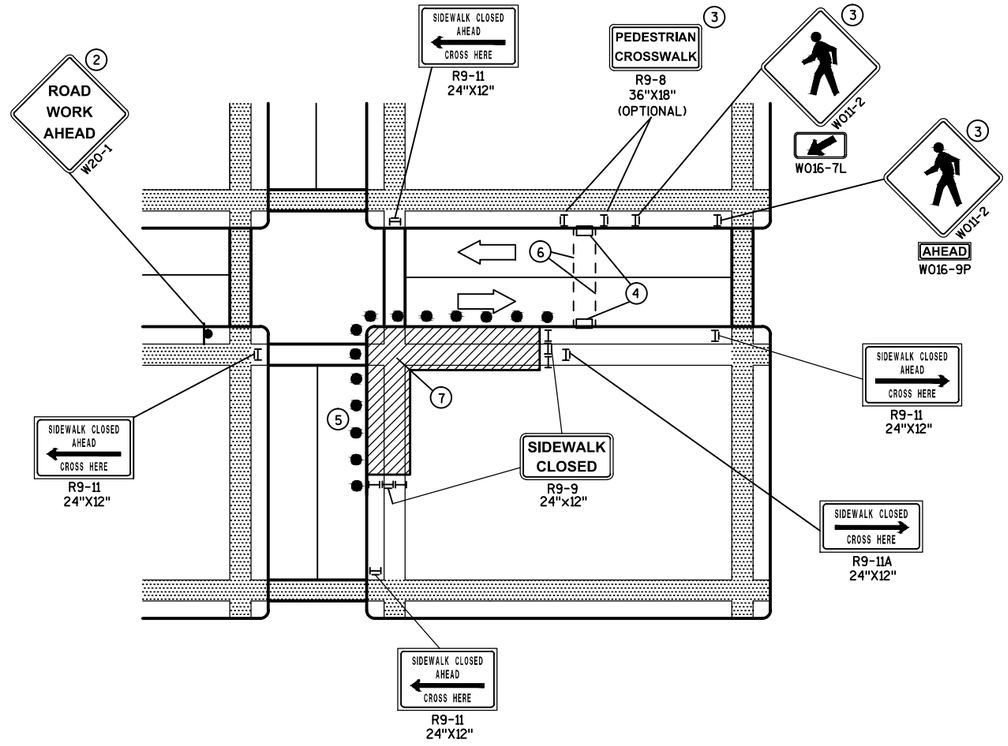
NOTE: LAYOUT SAME AS ABOVE.



RIGHT OF WAY SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR OTHER PEDESTRIAN FACILITIES PROVIDE ADA COMPLIANT TEMPORARY FACILITIES. INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES BY PROVIDING ADEQUATE SLOPE TRANSITIONS AND SURFACING.

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.

(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.

(4) TEMPORARY CURB RAMPS.

(5) CONES, DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

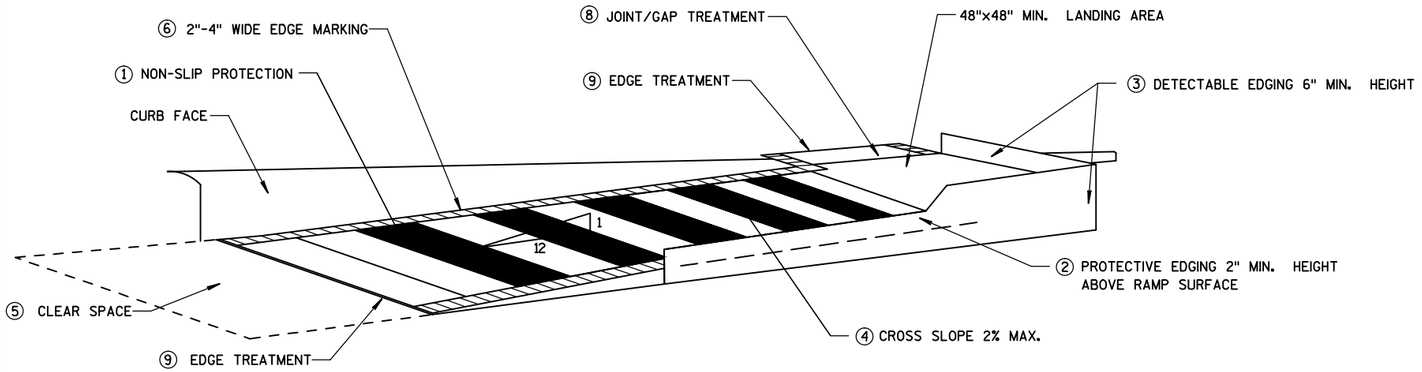
(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE CORNER AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE I I BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



TEMPORARY CURB RAMP
PARALLEL TO CURB

GENERAL NOTES

MAINTAIN ACCESS TO BUS STOPS.

GAP SIDEWALK WORK TO MAINTAIN PEDESTRIAN ACCESS WHERE APPLICABLE.

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.

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.

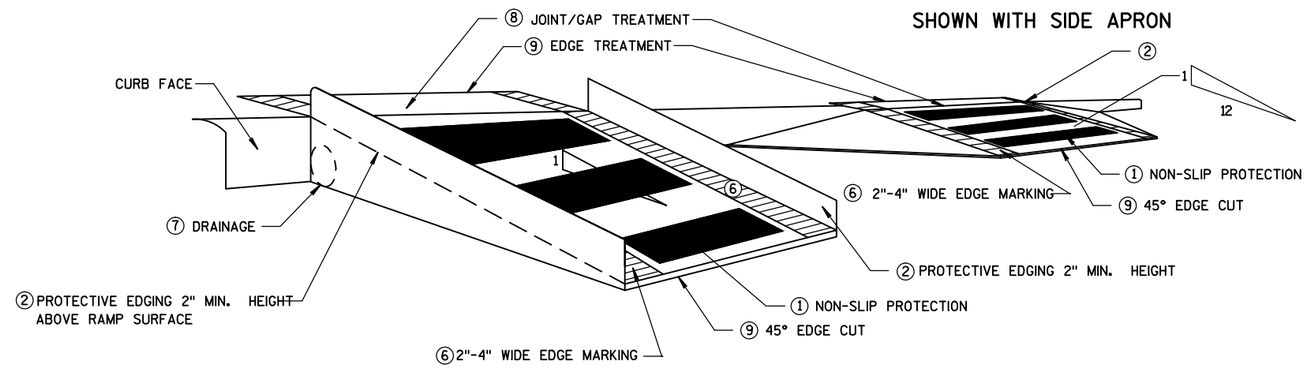
⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

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 FENCE TEMPORARY, 10' WIDE MIN. WITHOUT FENCE TEMPORARY.

⑪ MOVE EXISTING BUS STOP SIGN TO STEEL POST 2' X 2'.

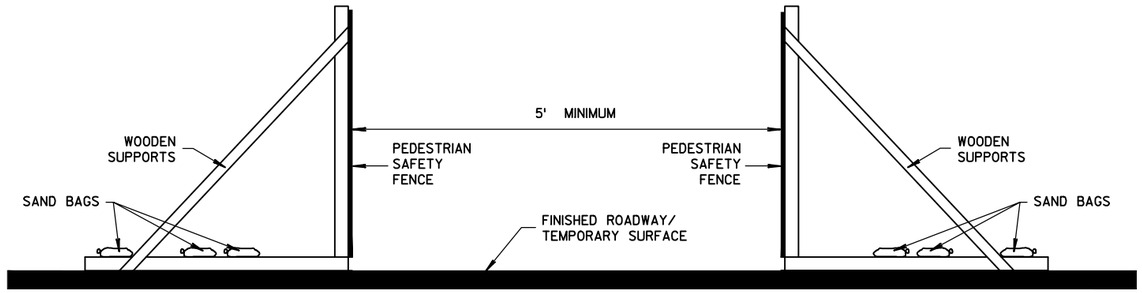


SHOWN WITH PROTECTIVE EDGE

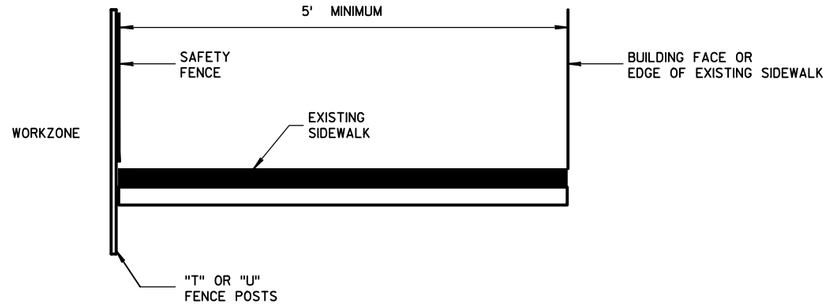
TEMPORARY CURB RAMP
PERPENDICULAR TO CURB

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CONSTRUCTION DETAILS	SHEET 27	E

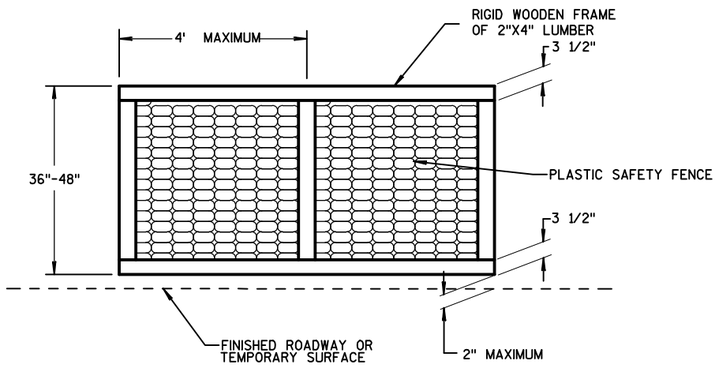
2



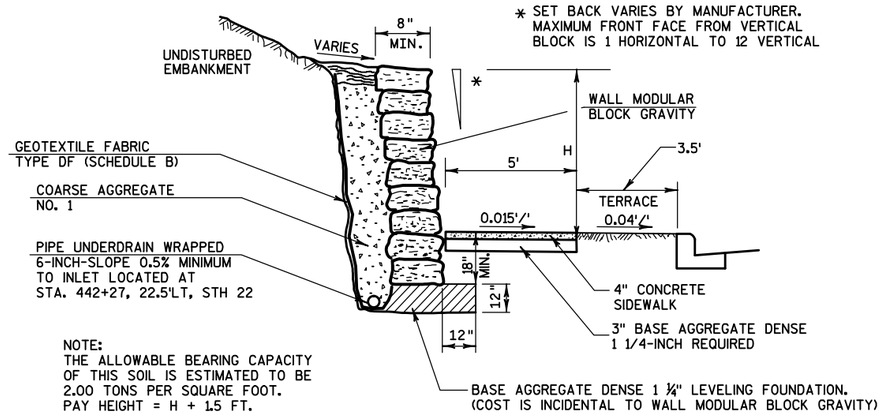
TEMPORARY PEDESTRIAN/BICYCLE ACCESS



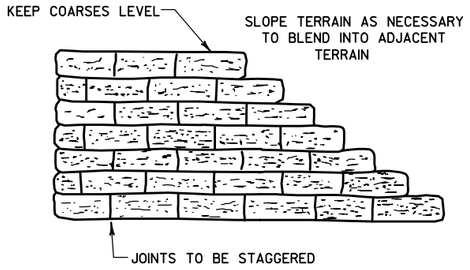
PEDESTRIAN ACCESS ON EXISTING SIDEWALK



PEDESTRIAN SAFETY FENCE

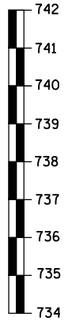


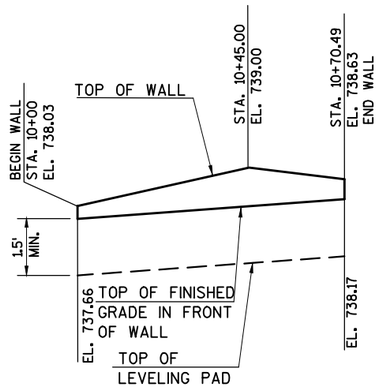
SIDE VIEW



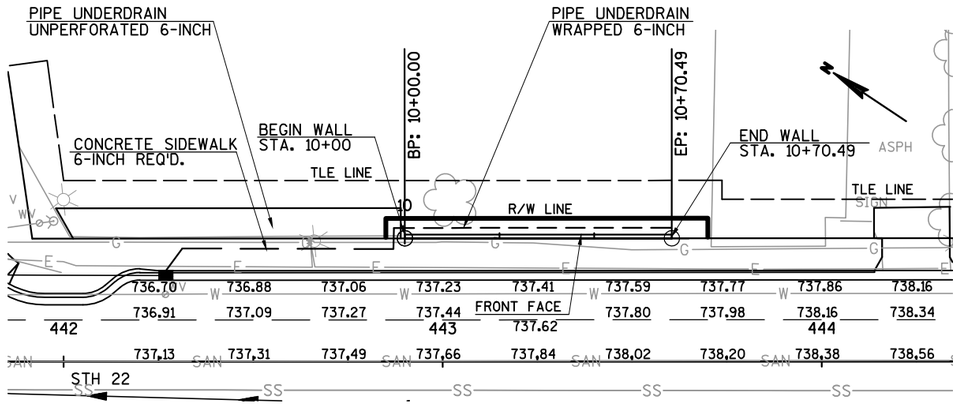
FRONT VIEW

DETAIL FOR WALL MODULAR BLOCK GRAVITY





PROFILE VIEW
(LOOKING AT FRONT FACE OF WALL)



PLAN
ALL DIMENSIONS ARE MEASURED ALONG FRONT FACE

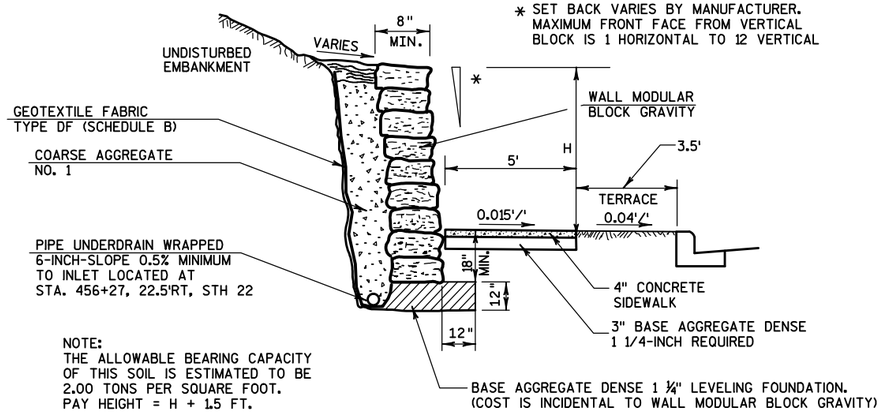
NOTE:
STATIONS AND OFFSETS ARE TO
FINISHED SIDEWALK GRADE AT FACE OF WALL

DESIGN DATA

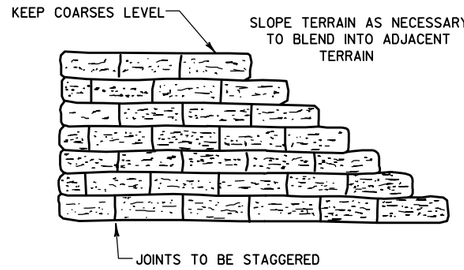
PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLAN DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, WALL HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

PROVIDE DETAILS FOR MODULAR BLOCK AND FRONT FACE TEXTURE. TEXTURE IS TO BE SPLIT FACE. WALL COLOR WILL BE SELECTED BY THE CITY OF OCONTO FALLS FROM MANUFACTURERS STANDARD COLORS.

ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
10+00.00	174,967.4270	538,592.7173
10+70.49	174,910.7795	538,634.6696



SIDE VIEW



FRONT VIEW

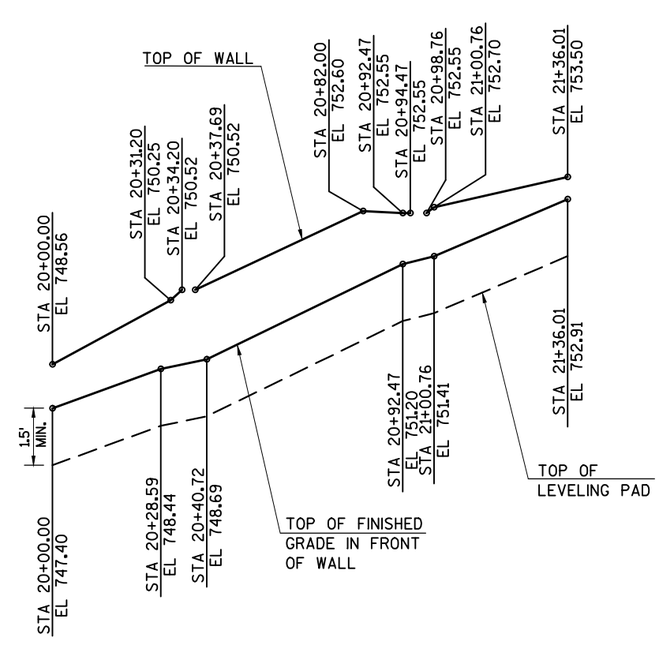
DETAIL FOR WALL MODULAR BLOCK GRAVITY

DESIGN DATA

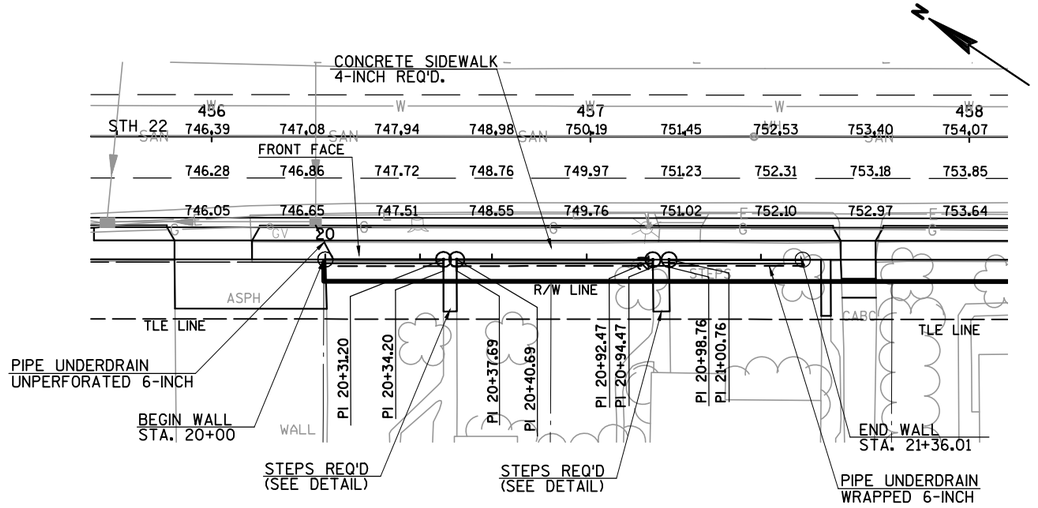
PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLAN DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, WALL HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

PROVIDE DETAILS FOR MODULAR BLOCK AND FRONT FACE TEXTURE. TEXTURE IS TO BE SPLIT FACE. WALL COLOR WILL BE SELECTED BY THE CITY OF OCONTO FALLS FROM MANUFACTURERS STANDARD COLORS.

ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
20+00.00	173,820.2038	539,288.2695
20+31.20	173,793.9559	539,305.1298
20+34.20	173,792.3373	539,302.6039
20+37.69	173,789.3944	539,304.4943
20+40.69	173,791.0194	539,307.0161
20+92.47	173,747.4587	539,334.9973
20+94.47	173,746.3777	539,333.3146
20+98.76	173,742.7640	539,335.6332
21+00.76	173,743.8469	539,337.3190
21+36.01	173,714.1908	539,356.3668

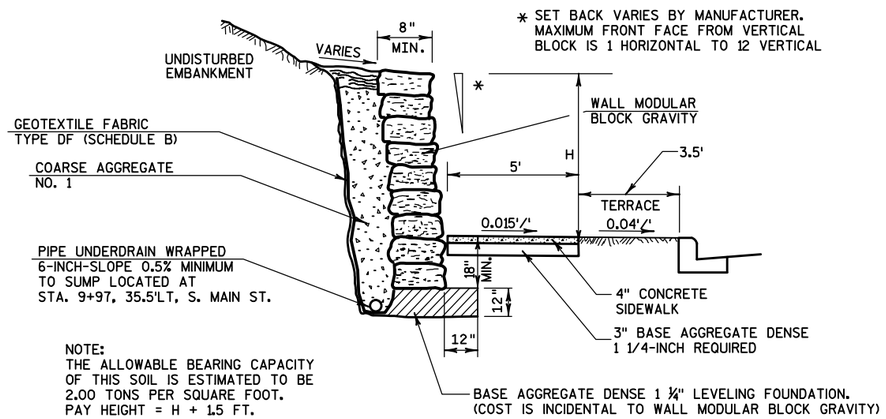


PROFILE VIEW
(LOOKING AT FRONT FACE OF WALL)

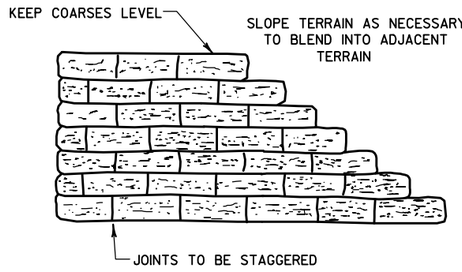


PLAN
ALL DIMENSIONS ARE MEASURED ALONG FRONT FACE

NOTE:
STATIONS AND OFFSETS ARE TO FINISHED SIDEWALK GRADE AT FACE OF WALL

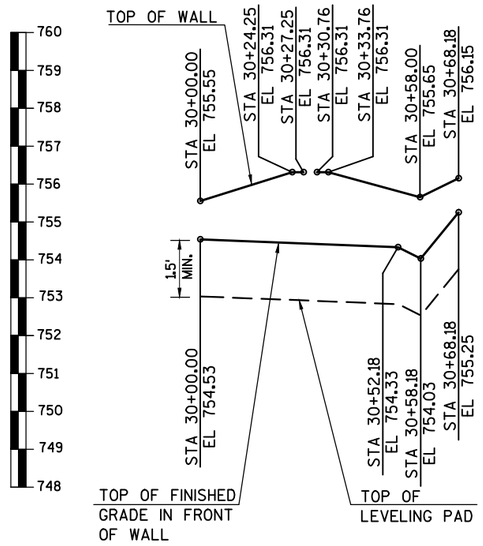


SIDE VIEW

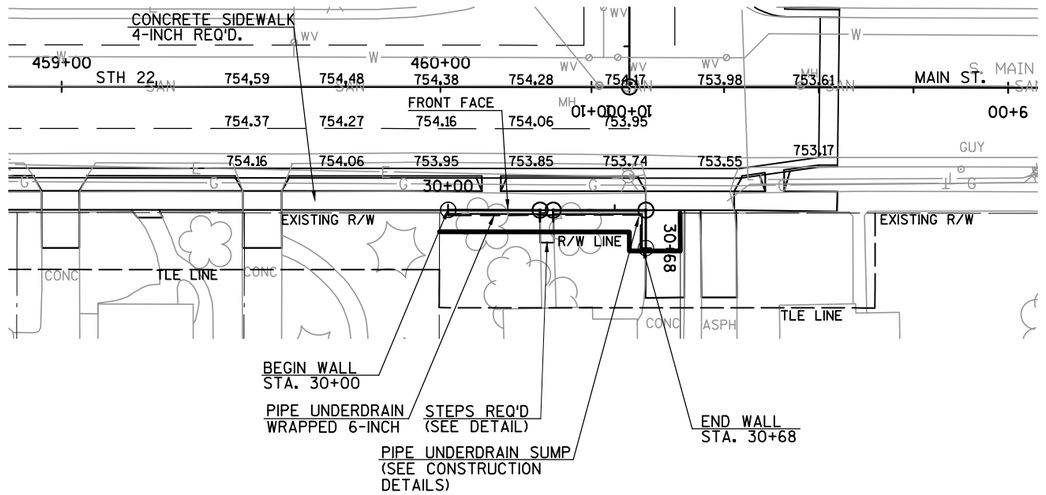


FRONT VIEW

DETAIL FOR WALL MODULAR BLOCK GRAVITY



PROFILE VIEW
(LOOKING AT FRONT FACE OF WALL)



PLAN
ALL DIMENSIONS ARE MEASURED ALONG FRONT FACE

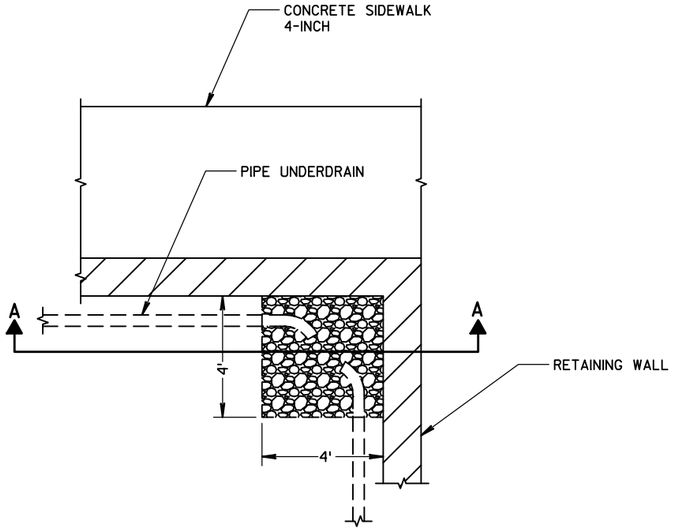
NOTE:
STATIONS AND OFFSETS ARE TO
FINISHED SIDEWALK GRADE AT FACE OF WALL

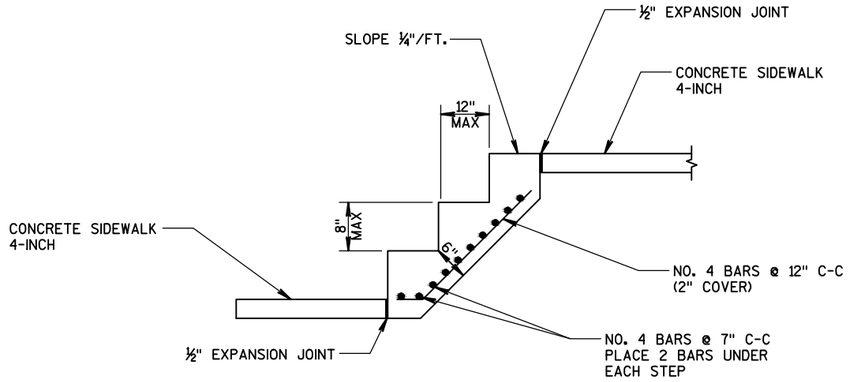
DESIGN DATA

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLAN DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, WALL HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

PROVIDE DETAILS FOR MODULAR BLOCK AND FRONT FACE TEXTURE. TEXTURE IS TO BE SPLIT FACE. WALL COLOR WILL BE SELECTED BY THE CITY OF OCONTO FALLS FROM MANUFACTURERS STANDARD COLORS.

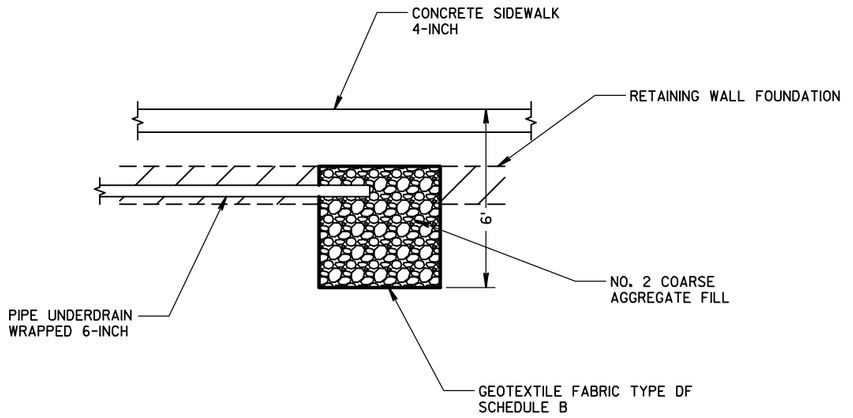
ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
30+00.00	173,507.2130	539,489.3187
30+24.25	173,486.8066	539,502.4267
30+27.25	173,485.1596	539,499.9193
30+30.76	173,482.2067	539,501.8158
30+33.76	173,486.8533	539,504.3238
30+58.18	173,463.3079	539,517.5210
30+68.18	173,457.9042	539,509.1061





SECTION A-A

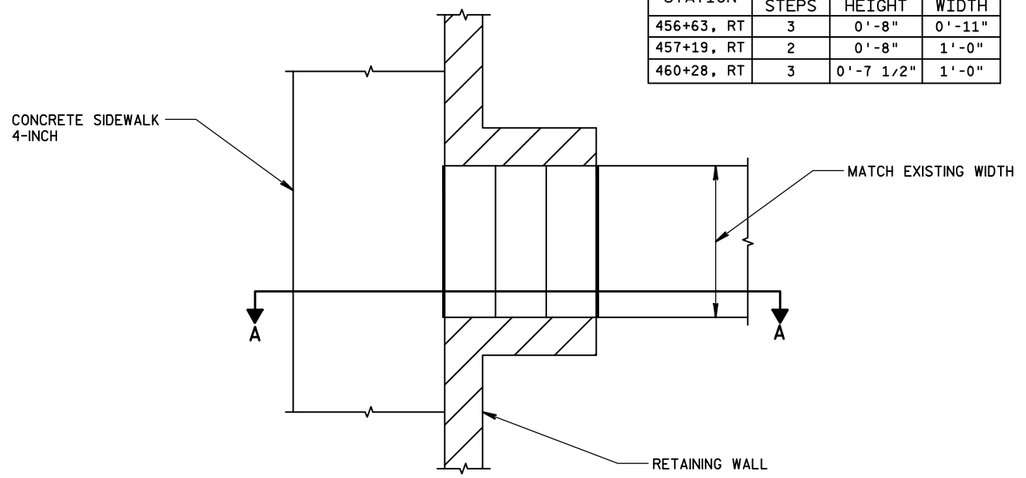
STEP CONFIGURATION TABLE			
STATION	NO. STEPS	RISER HEIGHT	RUN WIDTH
456+63, RT	3	0'-8"	0'-11"
457+19, RT	2	0'-8"	1'-0"
460+28, RT	3	0'-7 1/2"	1'-0"



SECTION A-A

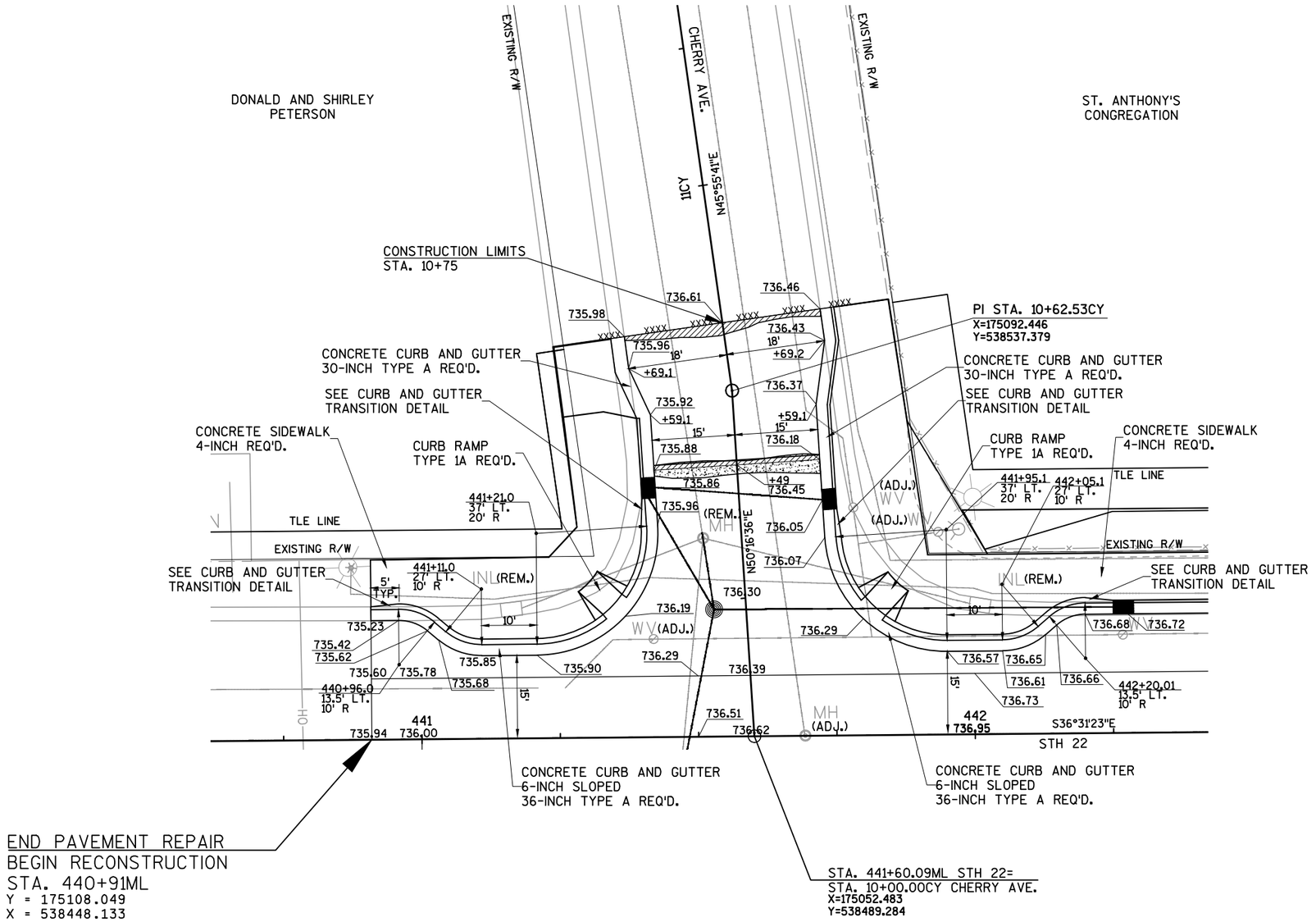
PIPE UNDERDRAIN SUMP

STA. 9+97'MA', LT.



CONCRETE STEPS AT RETAINING WALL

2



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN DETAIL	SHEET 33	E

JASON AND
MICHELLE R. BOOR

BRAD G. THOMPSON

EXISTING R/W

CENTRAL AVE.

N57°11'02"E

PI STA. 10+51.56CN
X=173968.399
Y=539292.979

CONSTRUCTION LIMITS
STA. 10+55CN

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

745.37
744.55
744.49
744.61
744.74
744.57
744.71
744.85
744.82
745.28
745.17
745.03
744.86
744.91
744.94
744.93
745.09
745.33
745.31
745.54
745.32
745.23
745.35
745.31
745.26
745.22
744.68
744.73
744.77
744.88
744.63
744.92
744.93
745.19
745.28
745.38
745.59
744.29
744.19
743.66
743.89
744.11
743.96
743.11
742.71
742.40
743.00
742.00

+57.2
+47.2
+52.9
+42.9

18'
15'
10'
7'
5'
5' TYP.
21.5'

(REM.)
(ADJ.)
(REMOVE)

CURB RAMP
TYPE 1A REQ'D.

TLE LINE

EXISTING R/W

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
6-INCH SLOPED
36-INCH TYPE A REQ'D.

STA. 455+07.58 STH 22=
STA. 10+00.00CN CENTRAL AVE.
X=173940.770
Y=539249.451

454+70.8
37' LT.
20' R

454+60.8
27' LT.
10' R

454+58.8
13.5' LT.
10' R

455+44.78
37' LT.
20' R

455+54.8
27' LT.
10' R

455+69.8
13.5' LT.
10' R

455+65.6
13.5' RT.
10' R

454+47.6
13.5' RT.
10' R

454+65.6
27' RT.
10' R

454+69.6
37' RT.
20' R

455+50.6
27' RT.
10' R

455+43.6
37' RT.
20' R

455

S32°42'53"E 745.16
STH 22

N57°35'41"E

N57°29'18"E

N60°45'52"E

MH (ADJ.)
MH (REM.)
WV (ADJ.)

SEE DETAIL FOR
CURB TRANSITION

STA. 445+06.74 STH 22=
STA. 10+00.00CN CENTRAL AVE.
X=173941.473
Y=539249.000

PI STA. 9+58.36CN
X=173919.090
Y=539213.891

CONSTRUCTION LIMITS
STA. 9+35

P.I.

WALL

ROBERT E. SHELLMAN

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN DETAIL	SHEET 34	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\021202_PD.DWG PLOT DATE : 1/9/2015 9:34 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:20_XREF

2

N

CANOPY

SIGN

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPTS

ASPH

ASPH

15'

1'

7.5'

4'

5'

FOOTING
(WORK BY
OTHERS)

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

QUINCY ST.

12'

4'-3"

HMA PAVEMENT

GATE
(WORK BY
OTHERS)

STH 22

33

MH

34

35

MH

CAUTION

BURIED FIBER OPTIC
APPROXIMATE LOCATION

GATE
(WORK BY
OTHERS)

8'

2'

HMA PAVEMENT

5'

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

BURIED TELEPHONE
APPROXIMATE LOCATION

FLASHING LIGHT
SIGNAL
(WORK BY OTHERS)

10'

DETECTABLE WARNING
FIELD (TYPICAL)

CONCRETE
PANEL
(WORK BY
OTHERS)

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPTS

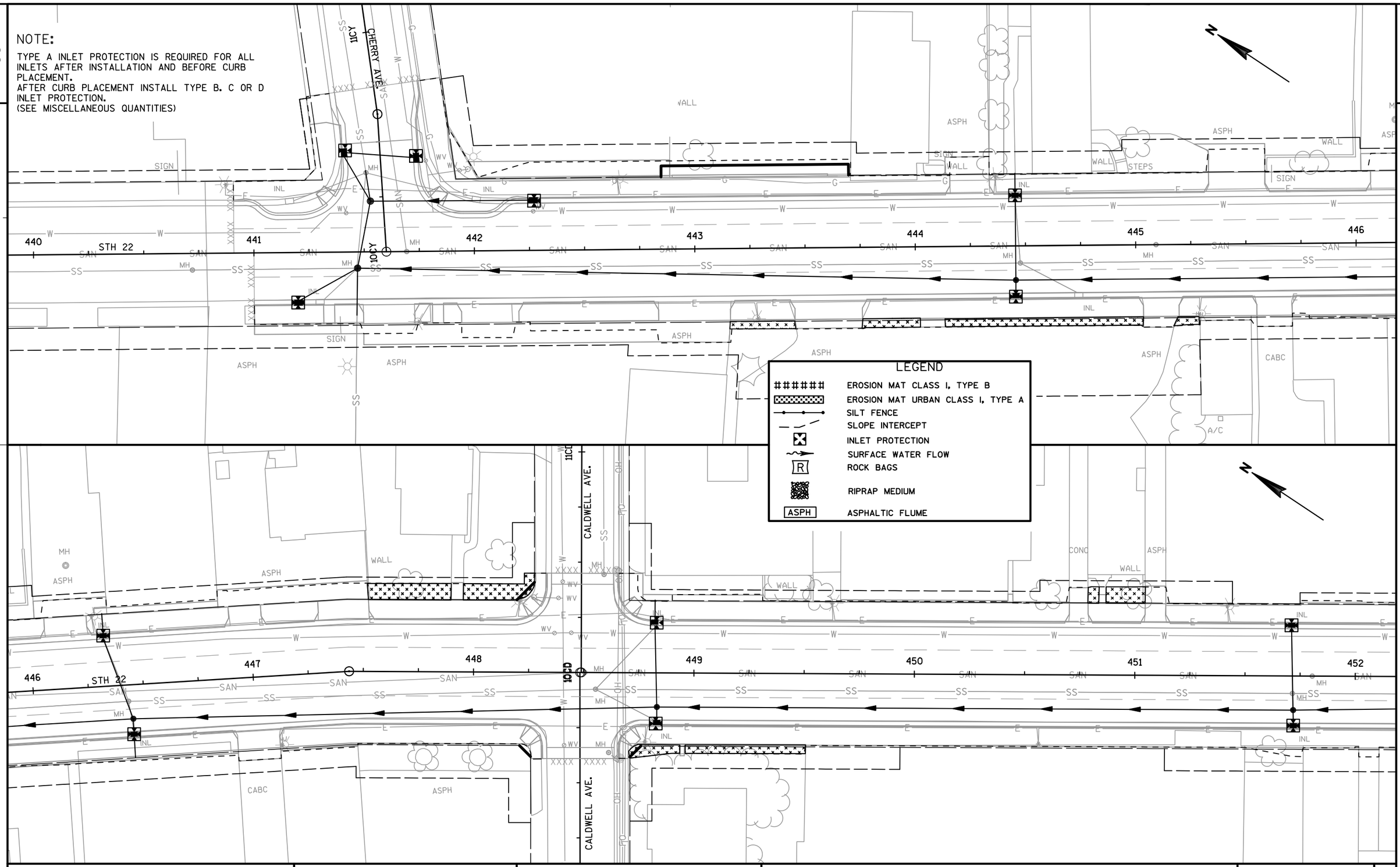
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN DETAIL	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\021203_PD.DWG PLOT DATE : 1/9/2015 9:35 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 42

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



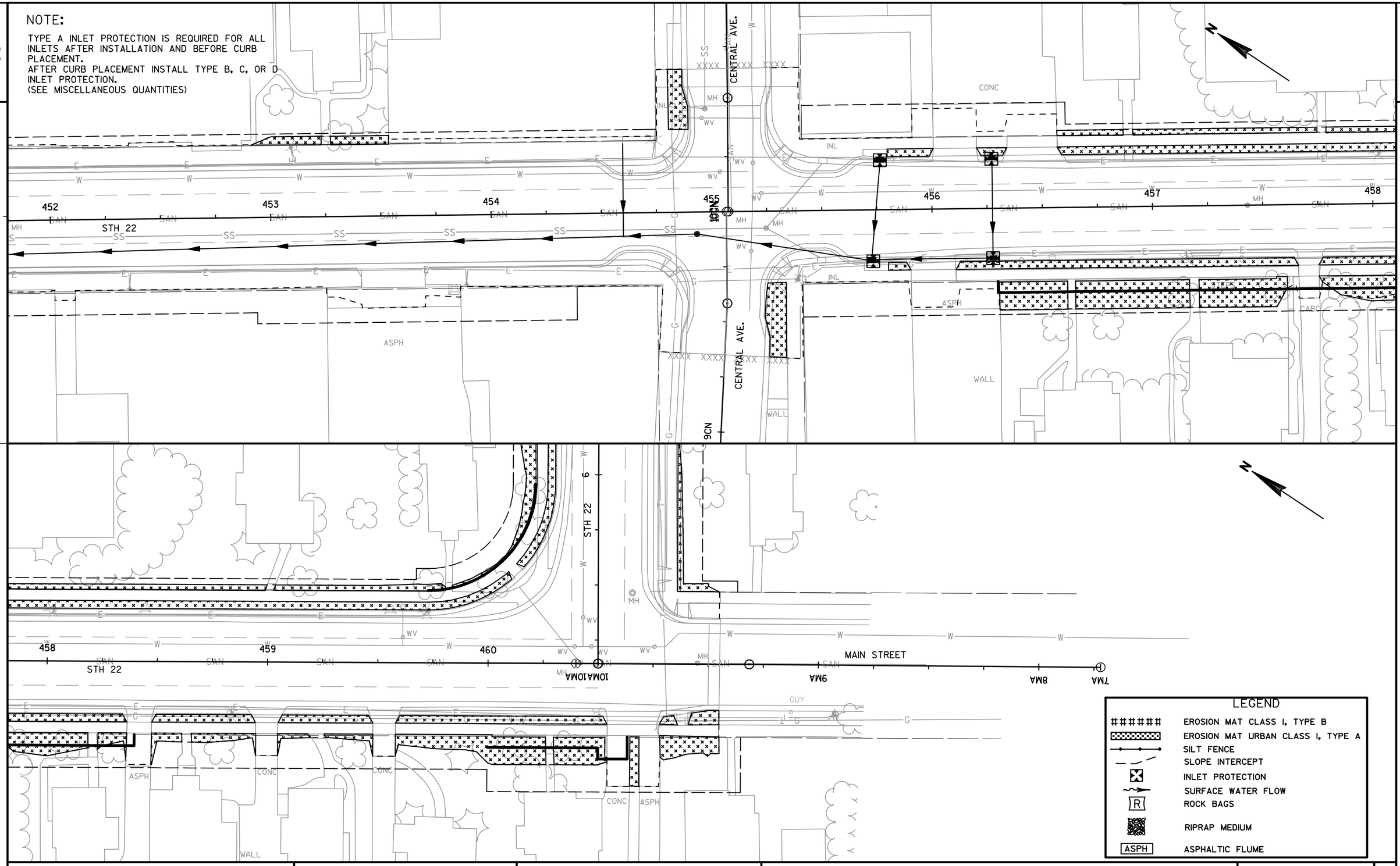
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022001_EC.DWG PLOT DATE : 1/9/2015 9:56 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022002_EC.DWG PLOT DATE : 1/9/2015 9:57 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R — ROCK BAGS
- RIPRAP MEDIUM
- ASPH — ASPHALTIC FLUME

S. FRANKLIN ST.
S. WASHINGTON ST.
ADAMS ST.
JEFFERSON RD.
STH 22
10FK
10WA
10JF
10AD

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET 38	E

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- RIPRAP MEDIUM
- ASPHALTIC FLUME

JEFFERSON RD.

STH 22

COLUMBIA ST.

CHESTNUT AVE.

PAUL ST.

ATHLETIC FIELD

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022004_EC.DWG PLOT DATE : 1/9/2015 9:59 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

ATHLETIC FIELD

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

BLEACHERS

MONROE ST.

CANOPY

FILLER CAPS

SIGN

G.P.

STH 22

10+00R

10+00L

GROVE ST.

QUINCY ST.

JACKSON ST.

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- RIPRAP MEDIUM
- ASPHALTIC FLUME

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET 40	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022005_EC.DWG PLOT DATE : 1/9/2015 10:00 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

NOTE:
TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

STH 22

E. HIGHLAND DR.

LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE A
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS
- RIPRAP MEDIUM
- ASPH ASPHALTIC FLUME

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET 41	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022006_EC.DWG PLOT DATE : 1/9/2015 10:01 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

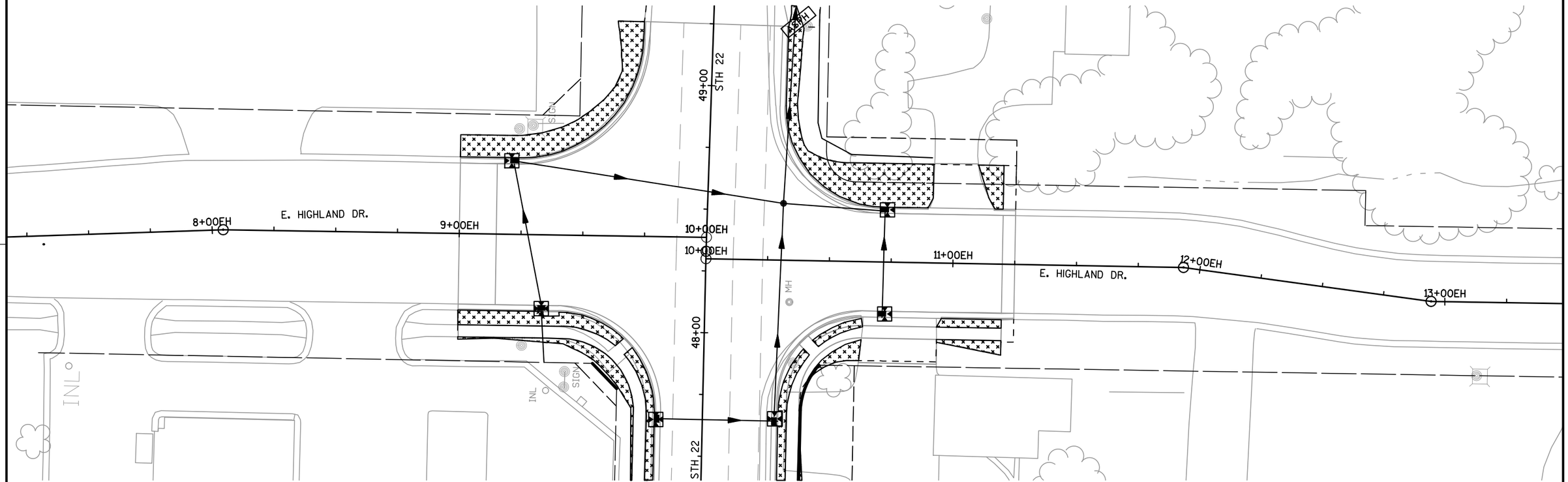
NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LEGEND

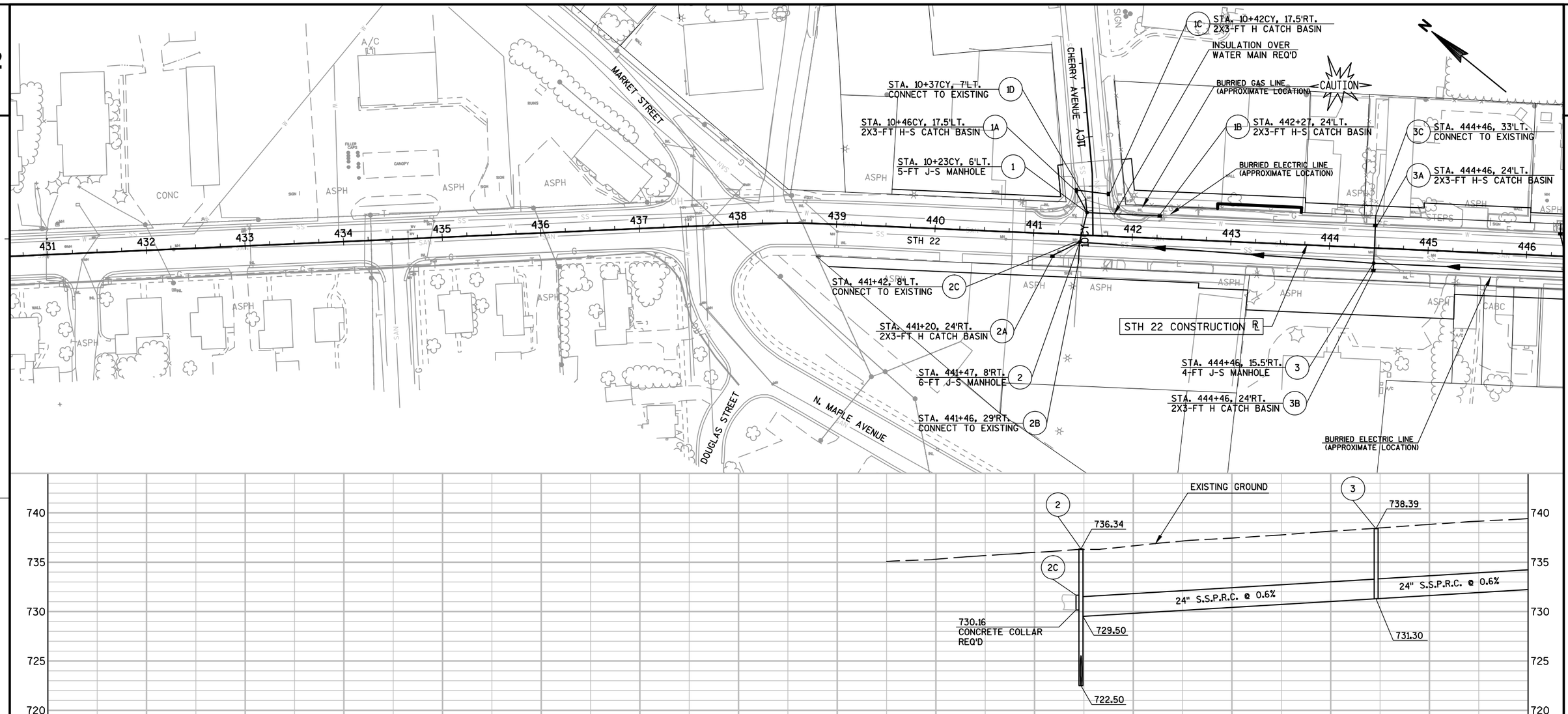
######	EROSION MAT CLASS I, TYPE B
	EROSION MAT URBAN CLASS I, TYPE A
	SILT FENCE
	SLOPE INTERCEPT
	INLET PROTECTION
	SURFACE WATER FLOW
R	ROCK BAGS
	RIPRAP MEDIUM
ASPH	ASPHALTIC FLUME

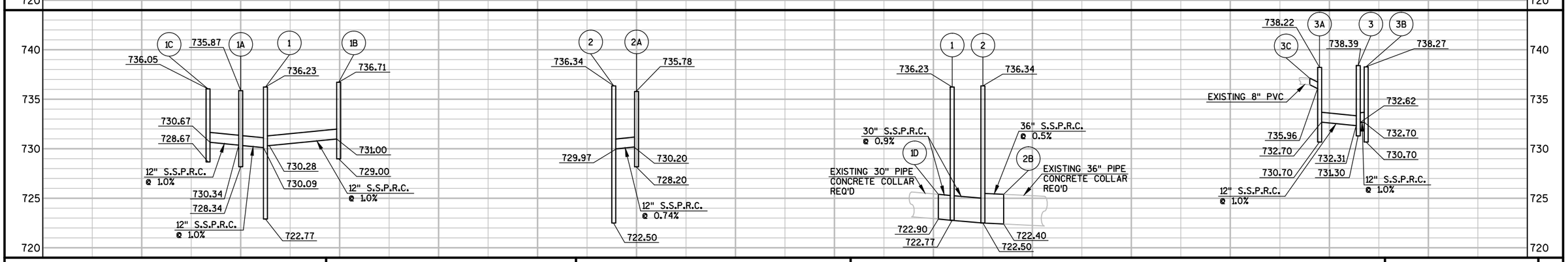


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	EROSION CONTROL PLAN	SHEET 42	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022007_EC.DWG PLOT DATE : 1/9/2015 10:02 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42





PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	STORM SEWER	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022501_SS.DWG PLOT DATE : 1/12/2015 9:00 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 41

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	STORM SEWER	SHEET 44	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022502_SS.DWG PLOT DATE : 1/12/2015 9:01 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 41

STA. 10+36FK, 18.7'LT.
2X3-FT H-S CATCH BASIN (8A)

STA. 7+97, 19.5'LT.
2X3-FT H CATCH BASIN (8B)

INSULATION OVER
WATER MAIN REQ'D

STA. 7+97, 27.5'RT.
2X3-FT H CATCH BASIN (8C)

12FK
11FK
10FK
9FK
8FK
S. FRANKLIN STREET

INSULATION OVER
WATER MAIN REQ'D

CAUTION — BURRIED GAS LINE (APPROXIMATE LOCATION)

STA. 10+36WA, 19'LT.
2X3-FT H-S CATCH BASIN (9A)

STA. 11+19, 19.5'LT.
2X3-FT H CATCH BASIN (9B)

STA. 8+75, 19'RT.
4-FT J-S MANHOLE (8)

STA. 11+19, 19'RT.
4-FT J-S MANHOLE (9)

STA. 11+19, 27.5'RT.
2X3-FT H CATCH BASIN (9C)

INSULATION OVER
WATER MAIN REQ'D

11WA
10WA
9WA
8WA
S. WASHINGTON STREET

STH 22 CONSTRUCTION

STA. 10+41AD, 18.7'LT.
2X3-FT H-S CATCH BASIN (10A)

STA. 14+34, 19.5'LT.
2X3-FT H CATCH BASIN (10C)

INSULATION OVER
WATER MAIN REQ'D

STA. 14+40, 19'RT.
5-FT J-S MANHOLE (10)

STA. 14+34, 27.5'RT.
2X3-FT H CATCH BASIN (10D)

STA. 9+56AD, 19'LT.
2X3-FT H-S CATCH BASIN (10E)

12AD
11AD
10AD
9AD
ADAMS STREET

STA. 17+59, 19.5'LT.
2X3-FT H-S CATCH BASIN (11A)

STA. 15+15, 19.5'LT.
2X3-FT H CATCH BASIN (10B)

INSULATION OVER
WATER MAIN REQ'D

STA. 18+03, 19.5'RT.
2X3-FT H CATCH BASIN (11B)

STA. 14+83, 45'RT.
CONNECT TO EXISTING (10F)

11JF
10JF
JEFFERSON STREET

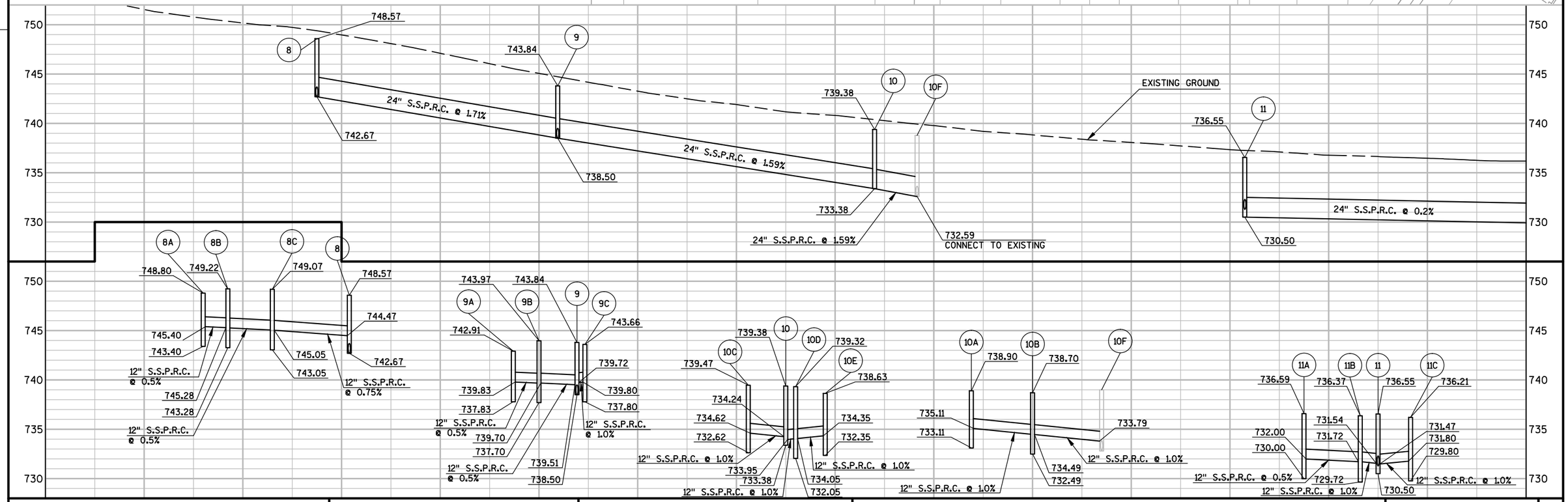
STA. 18+38, 19.5'LT.
2X3-FT H-S CATCH BASIN (11C)

STA. 18+15, 6'RT.
4-FT J-S MANHOLE (11)

6CT
7CT
CHESTNUT AVENUE

STH 22

N



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	STORM SEWER	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\022503_SS.DWG PLOT DATE : 1/12/2015 9:02 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:100_XREF

12A STA. 20+94, 19.5'LT.
2X3-FT H-S CATCH BASIN

12B STA. 21+08, 19.5'LT.
2X3-FT H-S CATCH BASIN

12C STA. 21+31, 31'LT.
4-FT BH CATCH BASIN

INSULATION OVER
WATER MAIN REQ'D

12 STA. 21+09, 45'RT.
CONNECT TO EXISTING

13 STA. 21+74, 35'RT.
CONNECT TO EXISTING

CAUTION FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

STH 22 CONSTRUCTION ℄

14A STA. 25+64, 19.5'LT.
2X3-FT H CATCH BASIN

CAUTION BURRIED GAS LINE
(APPROXIMATE LOCATION)

STA. 30+50, 19.5'LT.
2X3-FT H CATCH BASIN 15A

STA. 9+58MR, 20.2'RT.
2X3-FT H-S CATCH BASIN 16A

INSULATION OVER
WATER MAIN REQ'D

16D STA. 32+27, 34'LT.
CONNECT TO EXISTING

16 STA. 32+27, 6'RT.
5-FT J-S MANHOLE

16C STA. 32+50, 19.5'LT.
2X3-FT H CATCH BASIN

INSULATION OVER
WATER MAIN REQ'D

STA. 25+64, 11'RT.
4-FT J-S MANHOLE 14

STA. 10+41PA, 18'RT.
2X3-FT H-S CATCH BASIN 14C

INSULATION OVER
WATER MAIN REQ'D

14B STA. 10+41PA, 18'LT.
2X3-FT H-S CATCH BASIN

STA. 30+50, 6'RT.
4-FT J-S MANHOLE 15

STA. 30+46, 19.5'RT.
2X3-FT H CATCH BASIN 15D

INSULATION OVER
WATER MAIN REQ'D

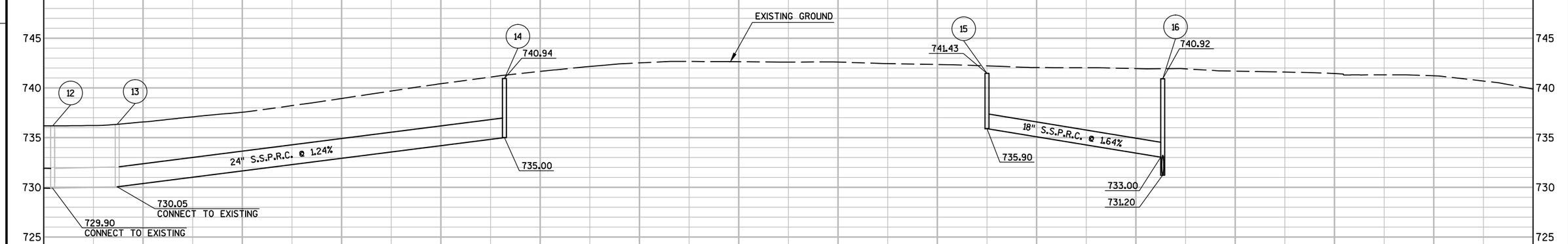
STA. 10+37GR, 19'RT.
2X3-FT H CATCH BASIN 15C

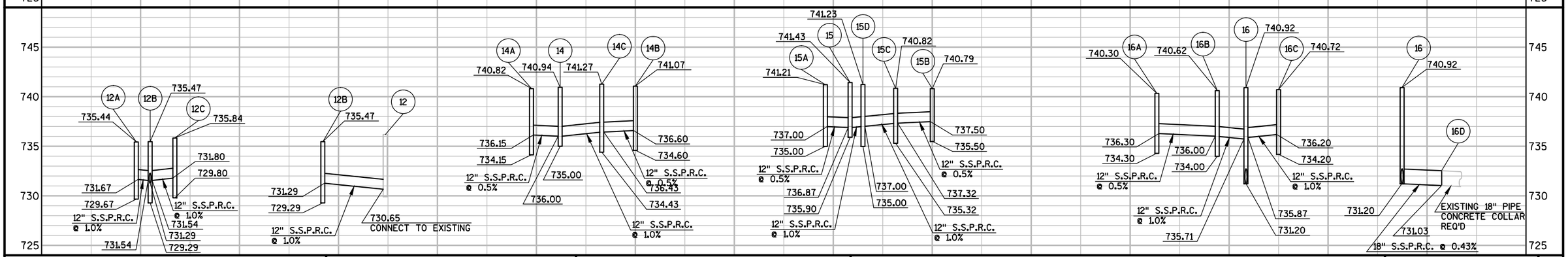
16B STA. 32+01, 19.5'RT.
2X3-FT H CATCH BASIN

15B STA. 10+35GR, 20'LT.
2X3-FT H-S CATCH BASIN

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)

CAUTION FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

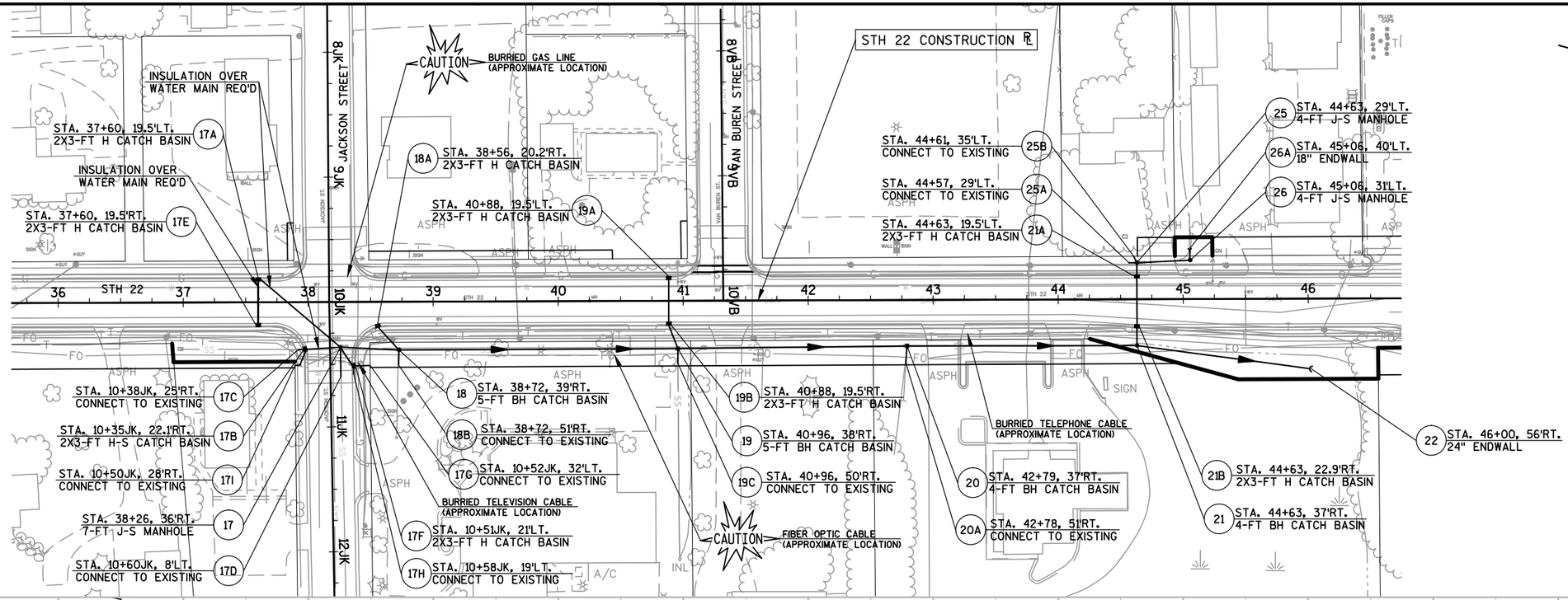


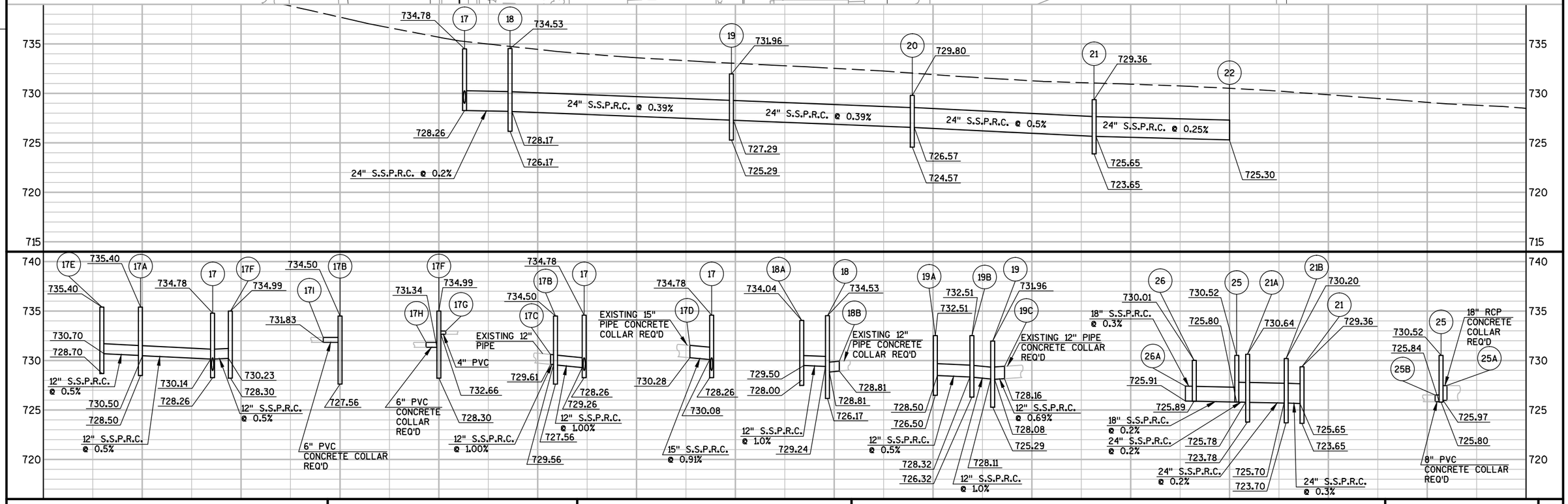


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	STORM SEWER	SHEET E

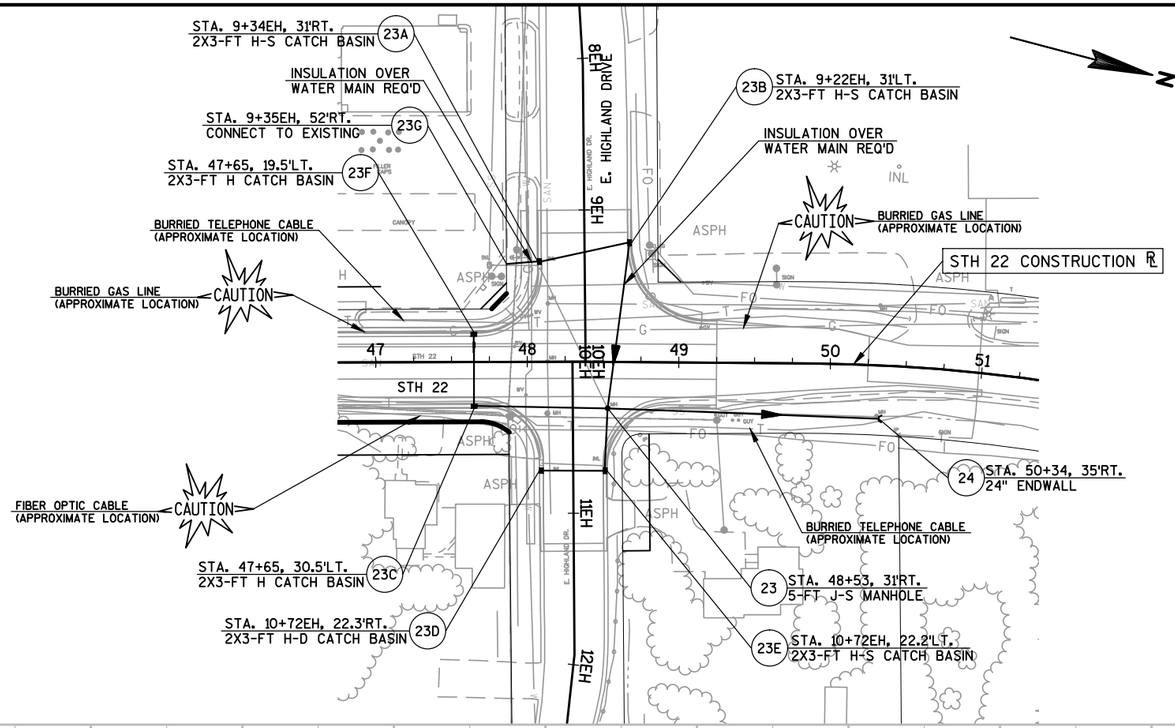
FILE NAME : N:\C3D\56022300\SHEETSPLAN\022504_SS.DWG PLOT DATE : 1/12/2015 9:04 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 41

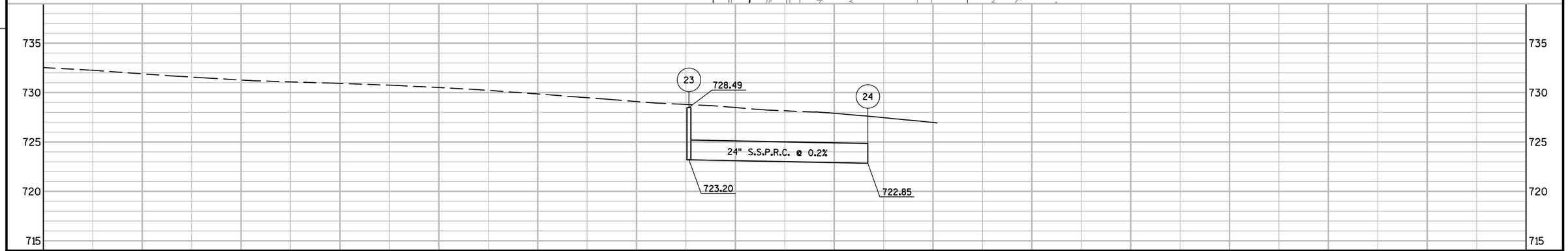
2

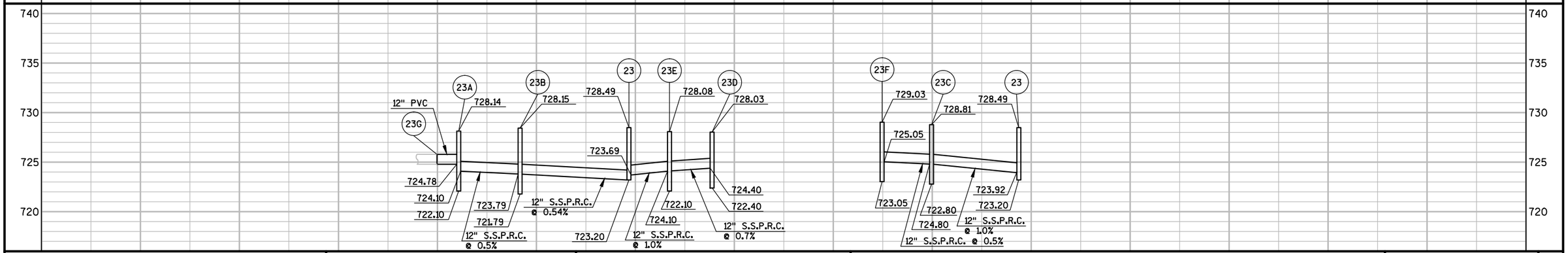




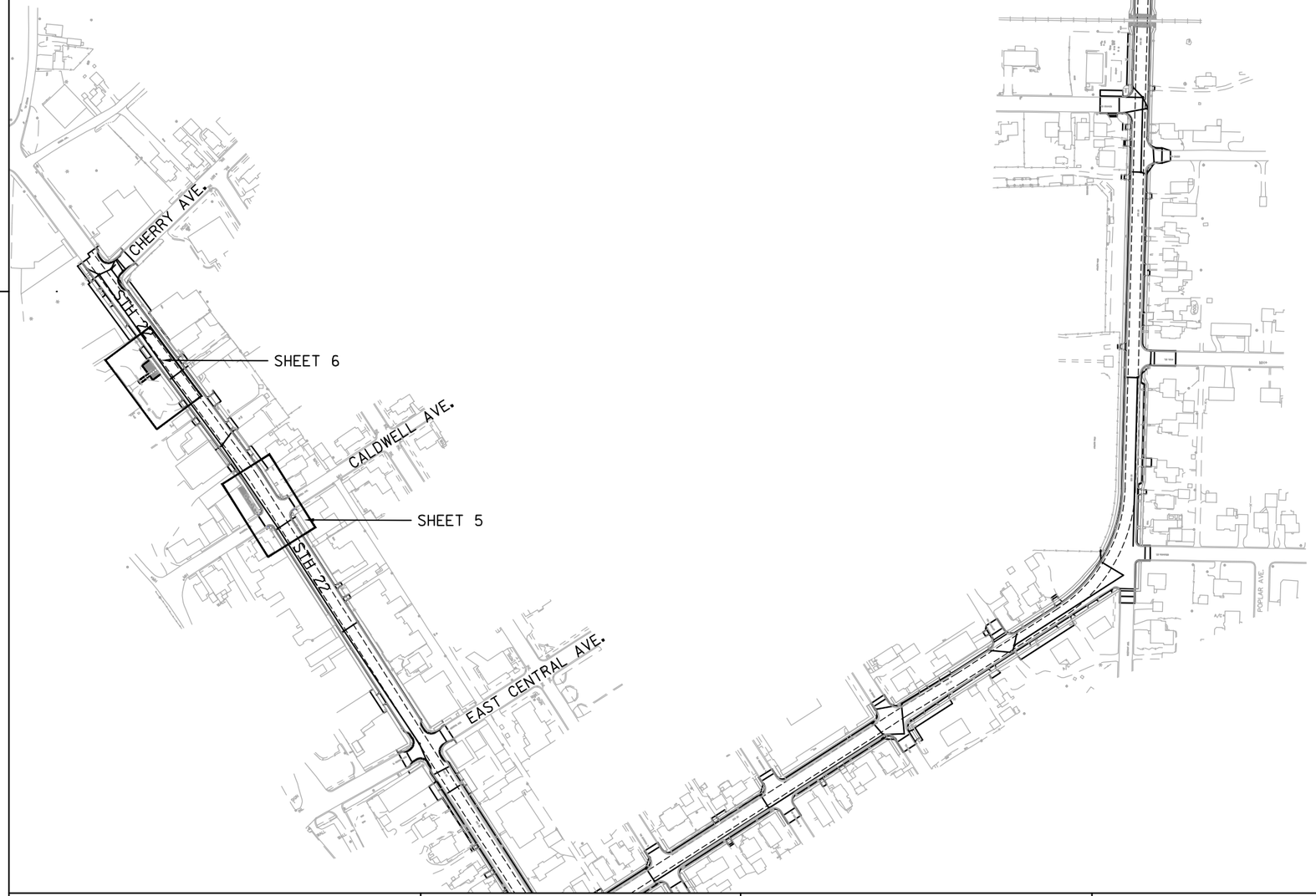
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	STORM SEWER	SHEET 47	E







PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	STORM SEWER	SHEET 48	E



GENERAL NOTES:
THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED UTILITIES AND SHALL ADJUST PLANT LOCATIONS AS NECESSARY TO AVOID CONFLICTS AND ACCOMMODATE UTILITY OFFSET REQUIREMENTS

-5'-0" MIN. FROM GAS AND UNDER GROUND ELECTRICAL LINES
-3'-0" MIN. FROM TELECOM FIBER OPTIC AND COAX LINES
-8'-0" MIN. FROM SANITARY AND WATER LINES

CONTRACTOR SHALL VERIFY THAT A MINIMUM OF 24-INCHES OF PLANTING MIXTURE HAS BEEN PROVIDED IN ALL PLANTING BEDS BEFORE BEGINNING PLANTING OPERATIONS

CONTRACTOR SHALL VERIFY THAT A MINIMUM OF 24 INCHES OF TOPSOIL SPECIAL HAS BEEN PROVIDED FOR TREES PLANTED IN LAWN AREAS FOR THE WIDTHS INDICATED IN THE TREE PLANTING DETAIL.

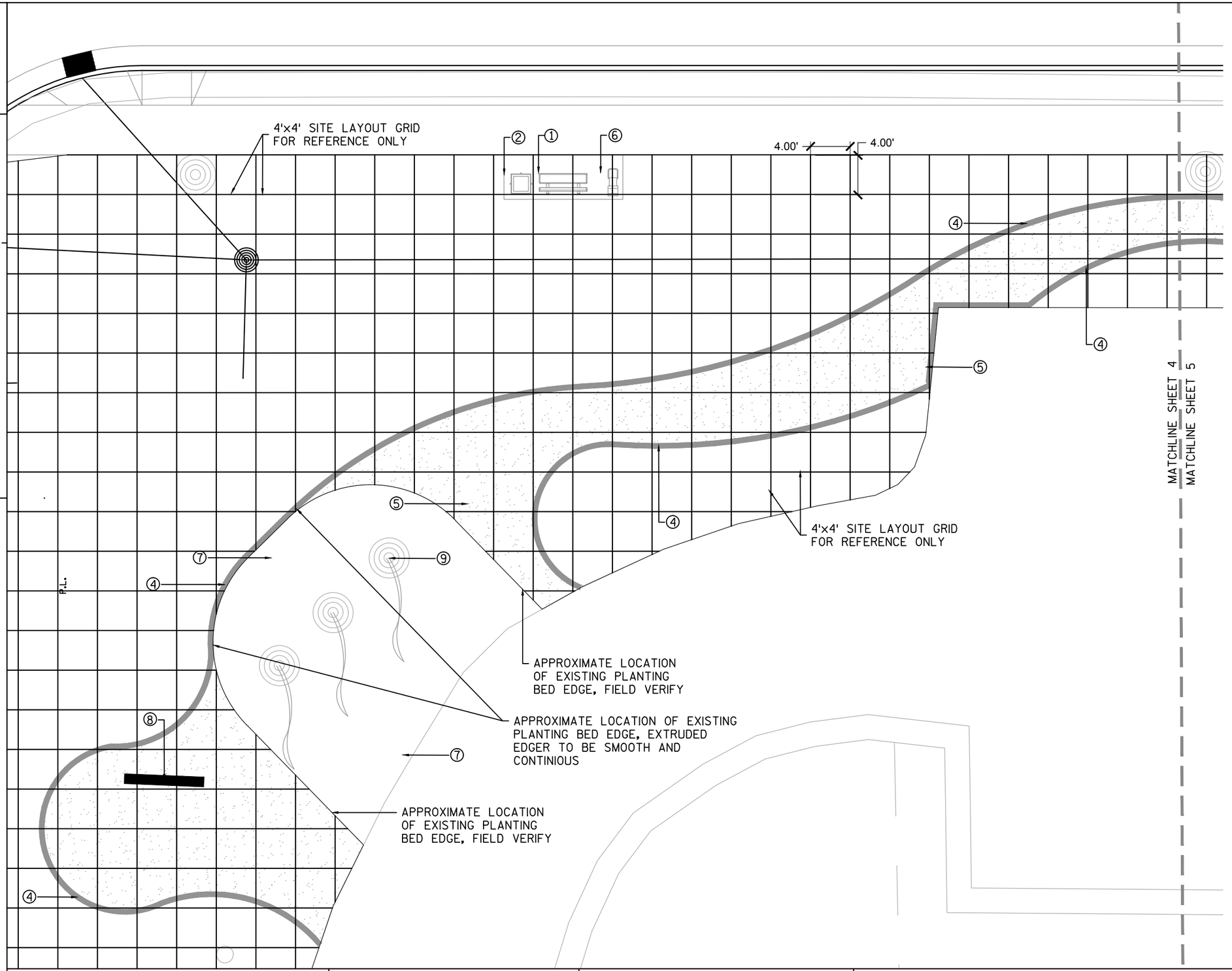
IF FIELD ADJUSTMENTS OF PLANTINGS IS REQUIRED, RELOCATIONS MUST BE REVIEWED AND APPROVED BY FIELD ENGINEER.

2

0 150' 300' 450'
SCALE 1" = 300'-0"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SHEET LAYOUT	SHEET 49	E

2



LEGEND

1. CONCRETE BENCH
2. CONCRETE TRASH RECEPTACLE
3. SALVAGE CONCRETE PAVERS
4. LANDSCAPING CONCRETE CURB
5. SHREDDED HARDWOOD BARK MULCH
6. WATER FOUNTAIN
7. EXISTING LANDSCAPE TO REMAIN
8. EXISTING SIGN TO REMAIN
9. EXISTING FLAG POLES TO REMAIN

SHEET: 1

0 5' 10' 20'

SCALE 1" = 10'-0"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SITE LAYOUT	SHEET 50	E

FILE NAME : \\GBPDC1\PROJECTS\C3D\56022300\DESIGN\LANDSCAPE\EXHIBITS\2014_10_30\SHEET 2 AND 3.DWG
PLOT DATE : 1/6/2015 3:48 PM
PLOT BY : AYRES ASSOCIATES
PLOT NAME :
PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 42

2

2

LEGEND

① CONCRETE BENCH

② CONCRETE TRASH RECEPTACLE

③ SALVAGE CONCRETE PAVERS

④ LANDSCAPING CONCRETE CURB

⑤ SHREDDED HARDWOOD BARK MULCH

⑥ WATER FOUNTAIN

⑦ EXISTING LANDSCAPE TO REMAIN

⑧ EXISTING SIGN TO REMAIN

⑨ EXISTING FLAG POLES TO REMAIN

40

4'x4' SITE LAYOUT GRID
FOR REFERENCE ONLY

4.00'

4.00'

4'x4' SITE LAYOUT GRID
POINT OF ORIGIN

DRIVEWAY

⑤

④

4'x4' SITE LAYOUT GRID
FOR REFERENCE ONLY

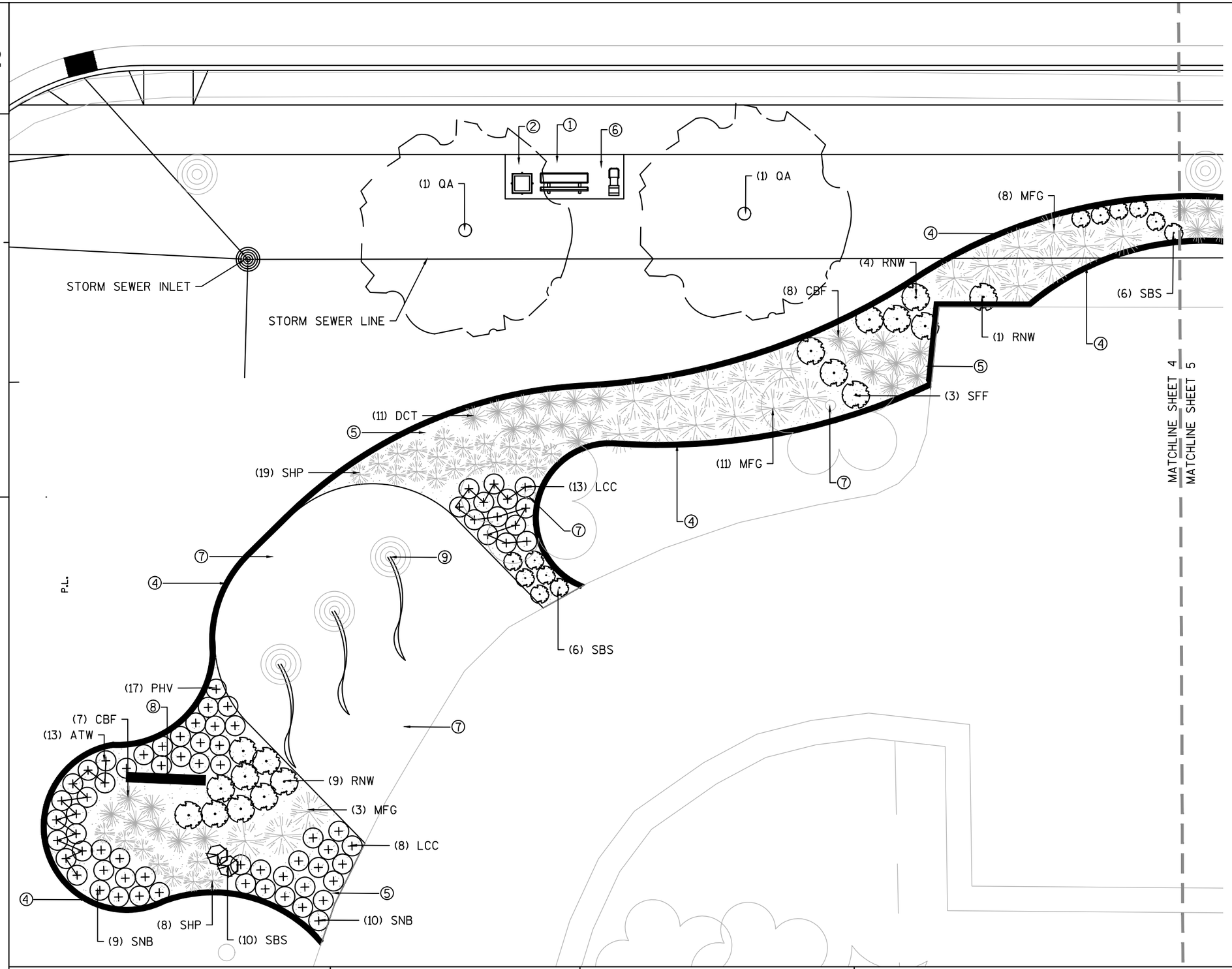
MATCHLINE SHEET 4
MATCHLINE SHEET 5

SHEET: 2

0 5' 10' 20'

SCALE 1" = 10'-0"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SITE LAYOUT	SHEET 51	E



LEGEND

- DECIDUOUS PLANT MATERIAL
- PERENNIAL PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- ① CONCRETE BENCH
- ② CONCRETE TRASH RECEPTACLE
- ③ SALVAGE CONCRETE PAVERS
- ④ LANDSCAPING CONCRETE CURB
- ⑤ SHREDDED HARDWOOD BARK MULCH
- ⑥ WATER FOUNTAIN
- ⑦ EXISTING LANDSCAPE TO REMAIN
- ⑧ EXISTING SIGN TO REMAIN
- ⑨ EXISTING FLAG POLES TO REMAIN

PLANT KEY

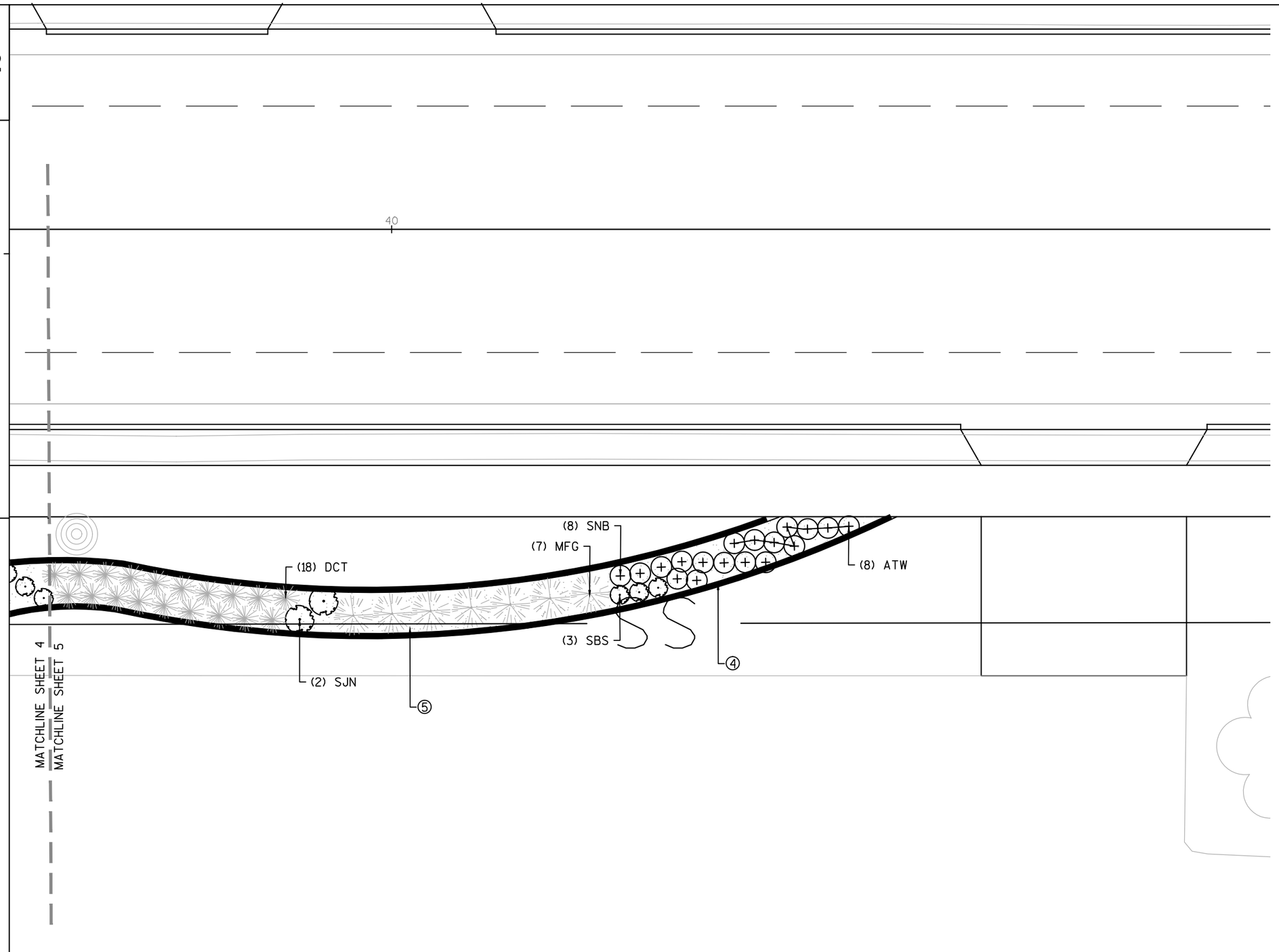
SYM.	COMMON NAME
DECIDUOUS TREES	
QA	WHITE OAK
DECIDUOUS SHRUBS	
RNW	NEARLY WILD ROSE
SBS	SUNDROP SPIREA
SFF	FRITSCH SPIREA
SJN	NEON FLASH SPIREA
PERENNIALS	
ATW	BLUE ICE AMSONIA
LCC	CARDINAL FLOWER
PHV	VOLCANO RED PHLOX
SNB	BLUE HILL SALVIA
PERENNIAL GRASSES	
CBF	FALL BLOOMING FEATHER REED GRASS
DCT	TUFTED HAIR GRASS
MFG	FLAME GRASS
SHP	PRAIRIE DROPSEED

SHEET: 3

0 5' 10' 20'

SCALE 1" = 10'-0"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SITE LAYOUT	SHEET 52	E



LEGEND

- DECIDUOUS PLANT MATERIAL
- PERENNIAL PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- ① CONCRETE BENCH
- ② CONCRETE TRASH RECEPTACLE
- ③ SALVAGE CONCRETE PAVERS
- ④ LANDSCAPING CONCRETE CURB
- ⑤ SHREDDED HARDWOOD BARK MULCH
- ⑥ WATER FOUNTAIN
- ⑦ EXISTING LANDSCAPE TO REMAIN
- ⑧ EXISTING SIGN TO REMAIN
- ⑨ EXISTING FLAG POLES TO REMAIN

PLANT KEY

SYM.	COMMON NAME
DECIDUOUS TREES	
QA	WHITE OAK
DECIDUOUS SHRUBS	
RNW	NEARLY WILD ROSE
SBS	SUNDROP SPIREA
SFF	FRITSCH SPIREA
SJN	NEON FLASH SPIREA
PERENNIALS	
ATW	BLUE ICE AMSONIA
LCC	CARDINAL FLOWER
PHV	VOLCANO RED PHLOX
SNB	BLUE HILL SALVIA
PERENNIAL GRASSES	
CBF	FALL BLOOMING FEATHER REED GRASS
DCT	TUFTED HAIR GRASS
MFG	FLAME GRASS
SHP	PRAIRIE DROPSEED

SHEET: 4

0 5' 10' 20'

SCALE 1" = 10'-0"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SITE LAYOUT	SHEET 53	E

2

2

PI: 447+43.54

448+00

104+00

N 174530.02
E 538837.79

N 174504.12
E 538856.55

N 174497.97
E 538846.96

(7) RNW
(5) CBF
(6) SNB
(11) LCC
(30) PHV
(1) AT
(12) MFG
(1) AT
(5) CBF
(1) QA
(10) SNB

R12.29'
7.00'
13.00'
14.50'
R5.00'
2.50'
5.00'

CALDWELL AVE.

LEGEND

- DECIDUOUS PLANT MATERIAL
- PERENNIAL PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- ① CONCRETE BENCH
- ② CONCRETE TRASH RECEPTACLE
- ③ SALVAGE CONCRETE PAVERS
- ④ CONCRETE PAVER EDGE
- ⑤ SHREDDED HARDWOOD BARK MULCH

PLANT KEY

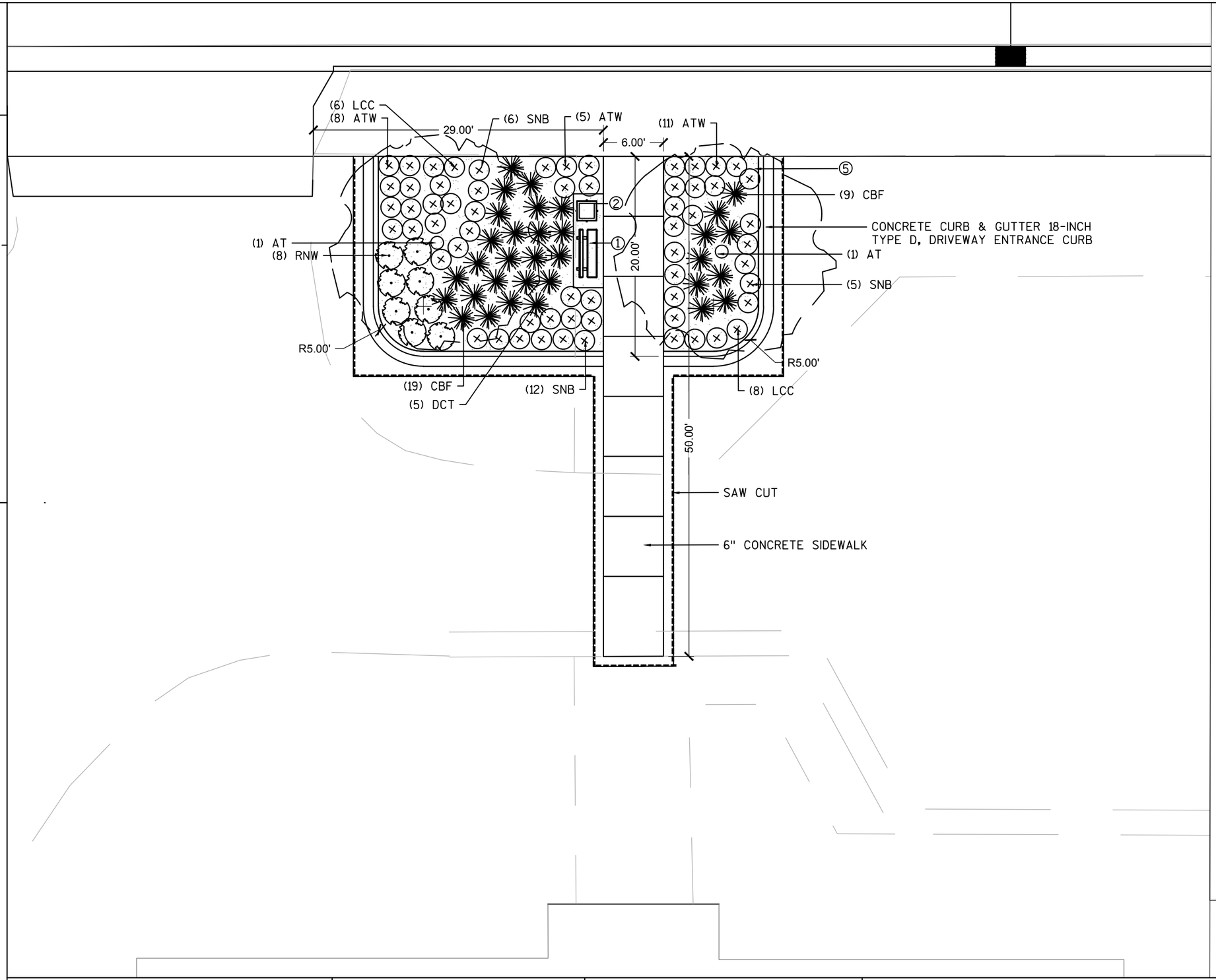
SYM.	COMMON NAME
DECIDUOUS TREES	
AT	HOT WINGS MAPLE
QA	WHITE OAK
DECIDUOUS SHRUBS	
RNW	NEARLY WILD ROSE
PERENNIALS	
LCC	CARDINAL FLOWER
PHV	VOLCANO RED PHLOX
SNB	BLUE HILL SALVIA
PERENNIAL GRASSES	
CBF	FALL BLOOMING FEATHER REED GRASS
MFG	FLAME GRASS

SHEET: 5

0 5' 10' 20'

SCALE 1" = 10'-0"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SITE LAYOUT	SHEET 54	E



LEGEND

- DECIDUOUS PLANT MATERIAL
- PERENNIAL PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- PERENNIAL GRASS PLANT MATERIAL
- ① CONCRETE BENCH
- ② CONCRETE TRASH RECEPTACLE
- ③ SALVAGE CONCRETE PAVERS
- ④ LANDSCAPING CONCRETE CURB
- ⑤ SHREDDED HARDWOOD BARK MULCH
- ⑥ WATER FOUNTAIN
- ⑦ EXISTING LANDSCAPE TO REMAIN
- ⑧ EXISTING SIGN TO REMAIN
- ⑨ EXISTING FLAG POLES TO REMAIN

PLANT KEY

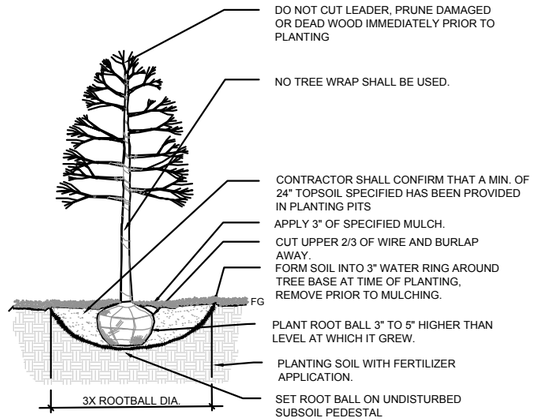
SYM.	COMMON NAME
DECIDUOUS TREES	
QA	WHITE OAK
DECIDUOUS SHRUBS	
RNW	NEARLY WILD ROSE
SBS	SUNDROP SPIREA
SFF	FRITSCH SPIREA
SJN	NEON FLASH SPIREA
PERENNIALS	
ATW	BLUE ICE AMSONIA
LCC	CARDINAL FLOWER
PHV	VOLCANO RED PHLOX
SNB	BLUE HILL SALVIA
PERENNIAL GRASSES	
CBF	FALL BLOOMING FEATHER REED GRASS
DCT	TUFTED HAIR GRASS
MFG	FLAME GRASS
SHP	PRAIRIE DROPSEED

SHEET: 6

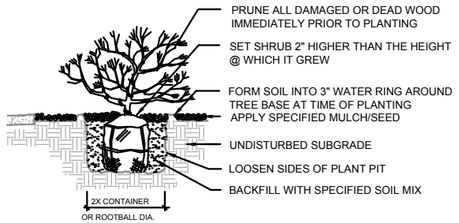
0 5' 10' 20'

SCALE 1" = 10'-0"

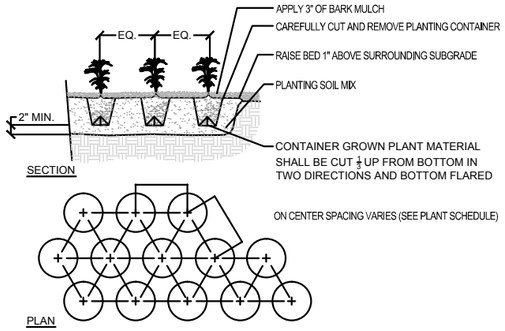
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN SITE LAYOUT	SHEET 55	E



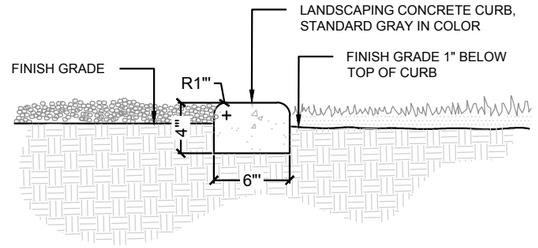
1 TREE PLANTING DETAIL
NOT TO SCALE



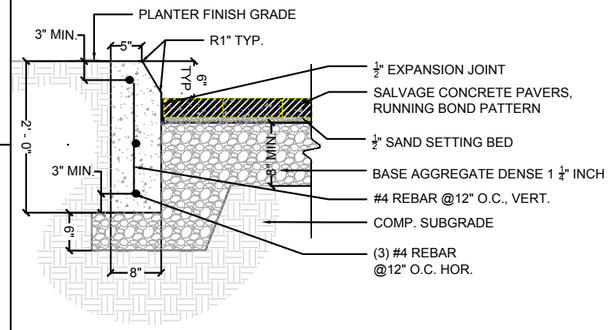
2 SHRUB PLANTING DETAIL
NOT TO SCALE



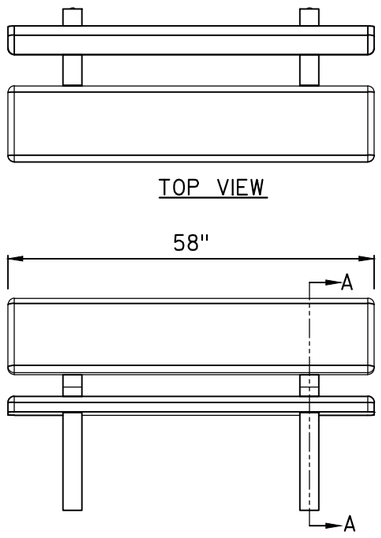
3 PERENNIAL PLANTING DETAIL
NOT TO SCALE



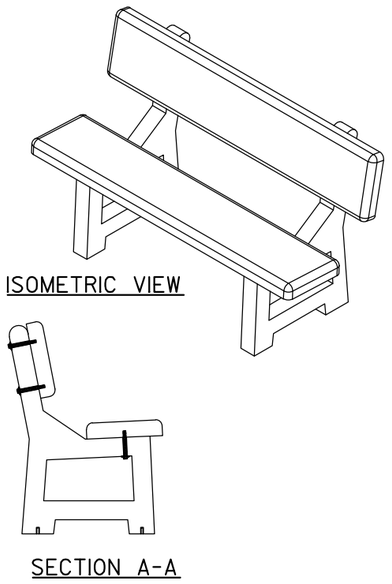
4 LANDSCAPING CONCRETE CURB
SCALE: 1" = 1'-0"



5 CONCRETE PAVER EDGE DETAIL
SCALE: 1/2" = 1'-0"



6 FREE STANDING CONCRETE BENCH
SCALE: 1/2" = 1'-0"



SHEET: 7

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LANDSCAPE PLAN DETAILS	SHEET 56	E

PLANT SCHEDULE:

KEY	BOTANICAL NAME	COMMON NAME	MATURE SIZE	PLANTING SIZE	CONDITION	SPACING	Brace Or Guy	Fertilizer Units Required	Protection Required	Mulch Ring
DECIDUOUS TREES										
AT	ACER TATARICUM 'GAR ANN'	HOT WINGS MAPLE	25' H. x 20' S.	2.5" CAL.	B&B	3' O.C.	Yes	4	YES	64"
QA	QUERCUS ALBA	WHITE OAK	60' H. x 60' S.	2.5" CAL.	B&B	3' O.C.	Yes	4	YES	64"
DECIDUOUS SHRUBS										
RNW	ROSA 'NEARLY WILD'	NEARLY WILD ROSE	3' H. x 3' S.	5 GAL.	CONT.	3' O.C.	No	4	No	BED
SBS	SPIREA 'BAILCAROL'	SUNDROP SPIREA	15" H. x 2.5' S.	5 GAL.	CONT.	2' O.C.	No	4	No	BED
SFF	SPIREA 'FRITSCHIANA'	FRITSCH SPIREA	2.5' H. x 4' S.	5 GAL.	CONT.	4' O.C.	No	4	No	BED
SJN	SPIREA JAPONICA 'NEON FLASH'	NEON FLASH SPIREA	3' H. x 3' S.	5 GAL.	CONT.	3' O.C.	No	4	No	BED
PERENNIALS										
ATW	AMSONIA 'BLUE ICE'	BLUE ICE AMSONIA	15" H. x 20" S.	1 GAL.	CONT.	2' O.C.	No	1	No	BED
LCC	LOBELIA CARDINALIS	CARDINAL FLOWER	3.5' H. x 2' S.	1 GAL.	CONT.	2' O.C.	No	1	No	BED
PHV	PHLOX PANICULATA 'VOLCANO RED'	VOLCANO RED PHLOX	2' H. x 2' S.	1 GAL.	CONT.	2' O.C.	No	1	No	BED
SNB	SALVIA NEMEROSA 'BLUE HILL'	BLUE HILL SALVIA	2' H. x 2' S.	1 GAL.	CONT.	2' O.C.	No	1	No	BED
PERENNIAL GRASSES										
CBF	CALAMAGROSTIS BRACHYTRICHA	FALL BLOOMING FEATHER REED GRASS	2.5' H. x 2.5' S.	1 GAL.	CONT.	2.5' O.C.	No	1	No	BED
DCT	DESCHAMPISIA CESPITOSA	TUFTED HAIR GRASS	3' H. x 3' S.	1 GAL.	CONT.	2.5' O.C.	No	1	No	BED
MFG	MISCANTHUS SINENSIS 'PURPURESCENS'	FLAME GRASS	3' H. x 3.5' S.	1 GAL.	CONT.	4' O.C.	No	1	No	BED
SHP	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	2.5' H. x 2.5' S.	1 GAL.	CONT.	2' O.C.	No	1	No	BED

PLANT QUANTITIES TABLE

KEY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	CONDITION	SHEET 4	SHEET 5	SHEET 6	SHEET 7	TOTALS
DECIDUOUS TREES									
AT	ACER TATARICUM 'GAR ANN'	HOT WINGS MAPLE	2.5" CAL.	B&B	0	0	2	2	4
QA	QUERCUS ALBA	WHITE OAK	2.5" CAL.	B&B	2	0	1	0	3
DECIDUOUS SHRUBS									
RNW	ROSA 'NEARLY WILD'	NEARLY WILD ROSE	5 GAL.	CONT.	14	0	7	8	29
SBS	SPIREA 'BAILCAROL'	SUNDROP SPIREA	5 GAL.	CONT.	22	3	0	0	25
SFF	SPIREA 'FRITSCHIANA'	FRITSCH SPIREA	5 GAL.	CONT.	3	0	0	0	3
SJN	SPIREA JAPONICA 'NEON FLASH'	NEON FLASH SPIREA	5 GAL.	CONT.	0	2	0	0	2
PERENNIALS									
ATW	AMSONIA 'BLUE ICE'	BLUE ICE AMSONIA	1 GAL.	CONT.	13	8	0	24	45
LCC	LOBELIA CARDINALIS	CARDINAL FLOWER	1 GAL.	CONT.	21	0	11	14	46
PHV	PHLOX PANICULATA 'VOLCANO RED'	VOLCANO RED PHLOX	1 GAL.	CONT.	17	0	30	0	47
SNB	SALVIA NEMEROSA 'BLUE HILL'	BLUE HILL SALVIA	1 GAL.	CONT.	19	8	16	23	66
PERENNIAL GRASSES									
CBF	CALAMAGROSTIS BRACHYTRICHA	FALL BLOOMING FEATHER REED GRASS	1 GAL.	CONT.	15	0	10	28	53
DCT	DESCHAMPISIA CESPITOSA	TUFTED HAIR GRASS	1 GAL.	CONT.	11	18	0	5	34
MFG	MISCANTHUS SINENSIS 'PURPURESCENS'	FLAME GRASS	1 GAL.	CONT.	22	7	12	0	41
SHP	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	1 GAL.	CONT.	27	0	0	0	27

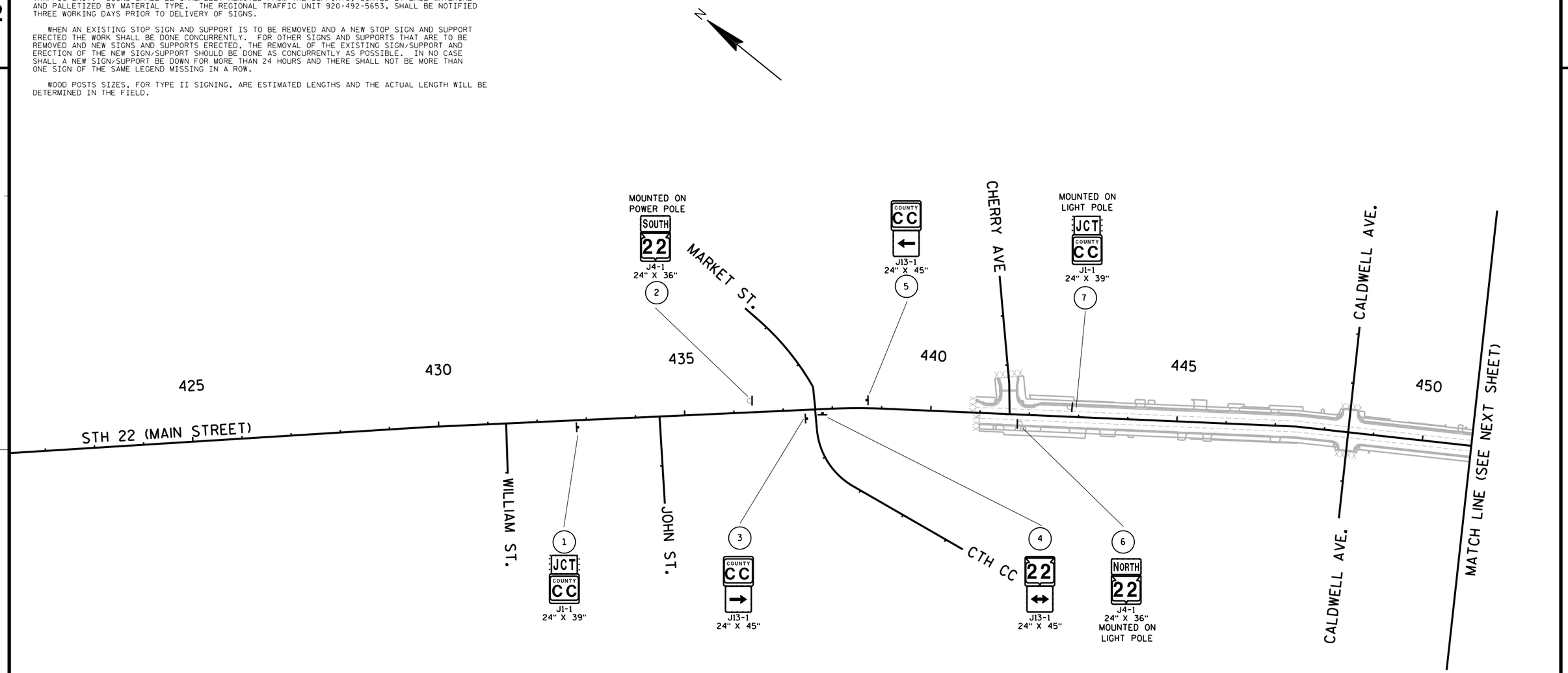
SHEET: 8

SIGNING NOTES

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



SIGN-REMOVE AND REPLACE

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PERMANENT SIGNING	SHEET	E

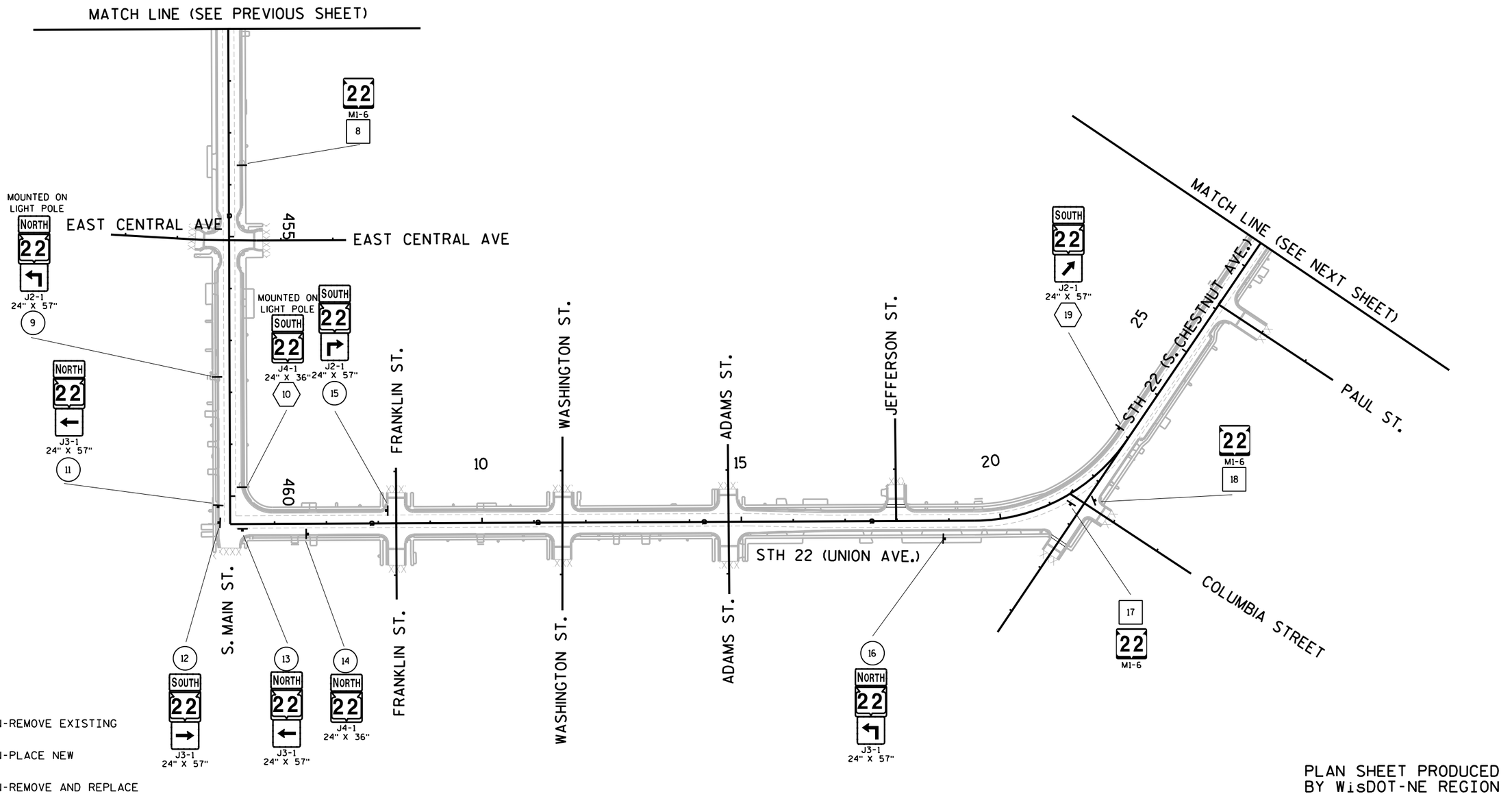
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SIGNING NOTES

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PERMANENT SIGNING	SHEET 59	E

2

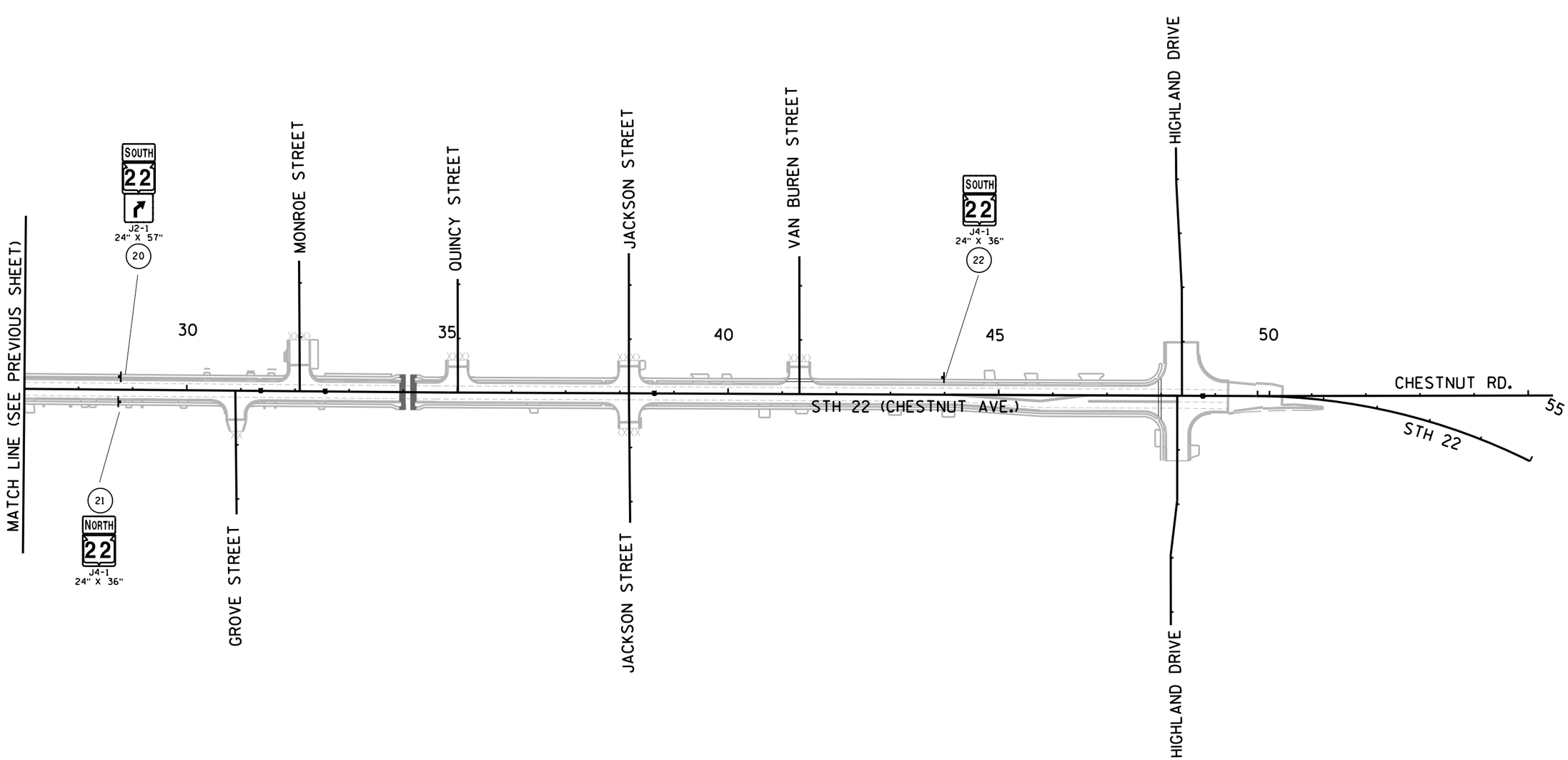
SIGNING NOTES

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

N



◯ SIGN-REMOVE AND REPLACE

PLAN SHEET PRODUCED BY WisDOT-NE REGION

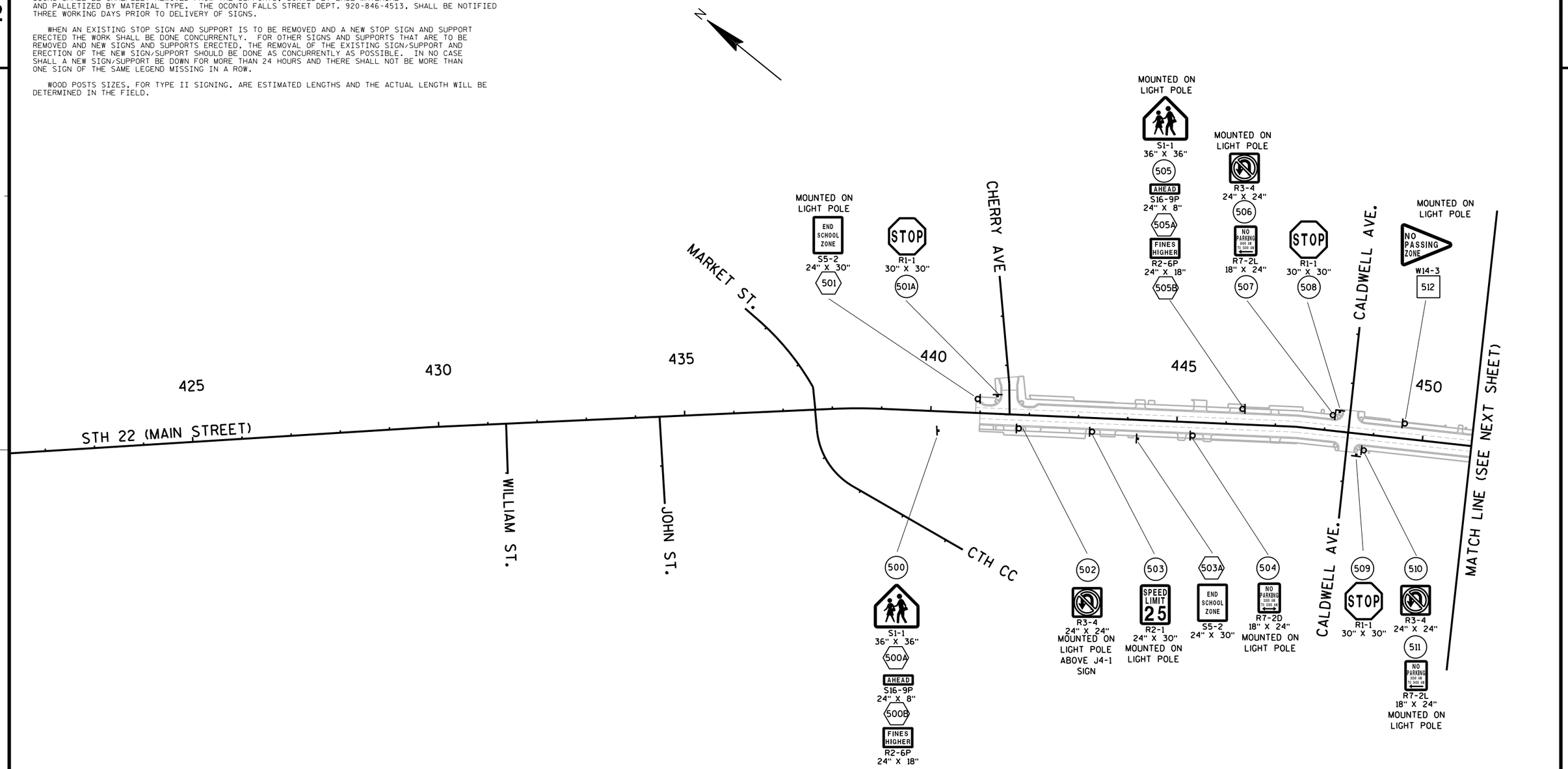
PROJECT NO: 9180-19-71/9180-21-71	HWY: STH 22	COUNTY: OCONTO	PERMANENT SIGNING	SHEET 60	E

SIGNING NOTES

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE CITY OF OCONTO FALLS SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE OCONTO FALLS STREET DEPT. 920-846-4513, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGN-MOVE WITH SUPPORT

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PERMANENT SIGNING-CITY	SHEET	E

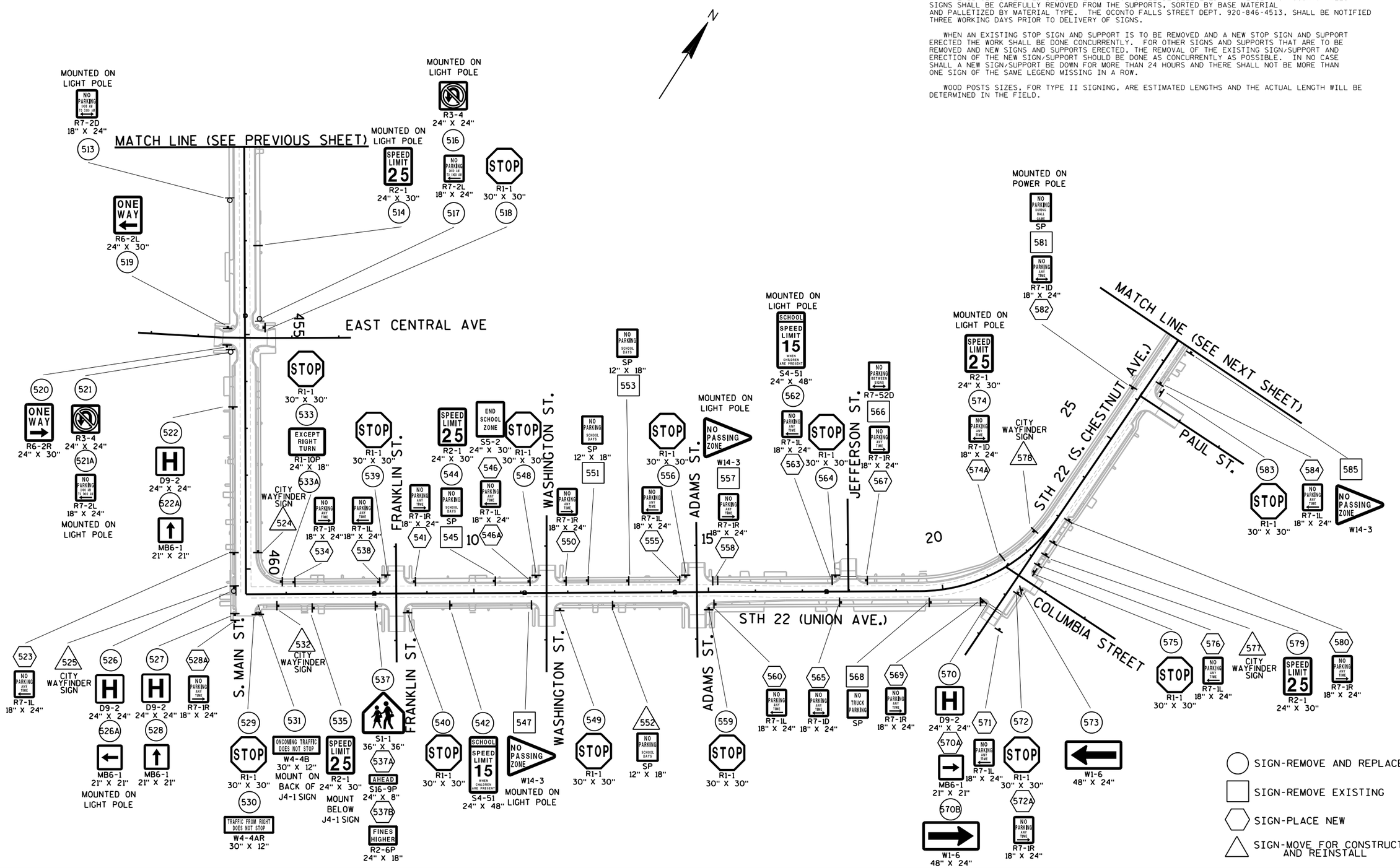
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

SIGNING NOTES

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE CITY OF OCONTO FALLS SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE OCONTO FALLS STREET DEPT. 920-846-4513, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



SIGN-REMOVE AND REPLACE
SIGN-REMOVE EXISTING
SIGN-PLACE NEW
SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PERMANENT SIGNING-CITY	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

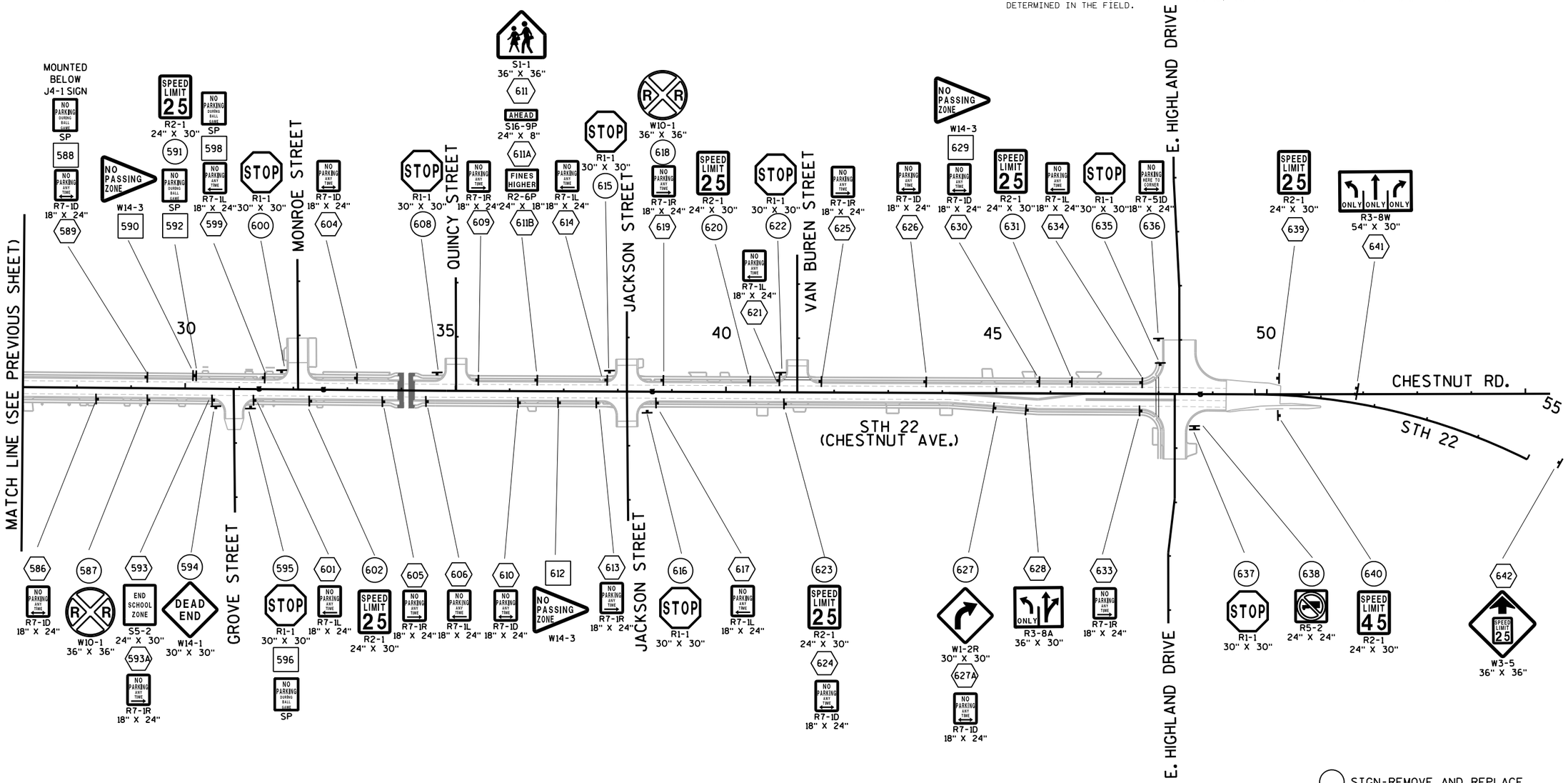
2

SIGNING NOTES

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE CITY OF OCONTO FALLS SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE OCONTO FALLS STREET DEPT. 920-846-4513, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGN-MOVE FOR CONSTRUCTION AND REINSTALL

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PERMANENT SIGNING-CITY	SHEET 63	E

2

LEGEND

CONDUIT HDPE 2-INCH (PROVIDED BY CITY OF OCONTO FALLS

CONCRETE BASE TYPE 5

NOTE:
THE CITY OF OCONTO FALLS WILL REMOVE EXISTING POLES. POLES WILL BE REINSTALLED BY THE CITY OF OCONTO FALLS. COORDINATE REMOVAL AND INSTALLATION WITH THE CITY OF OCONTO FALLS. CONTACT JASON VALENTINE 920-846-4512.

SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS OF NEW BASES.

CHERRY AVE.

CALDWELL AVE.

STH 22

REMOVE EXISTING LIGHT POLE BASE

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LIGHTING PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\023501_LP.DWG PLOT DATE : 1/9/2015 10:09 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

CONDUIT HDPE 2-INCH (PROVIDED BY CITY OF OCONTO FALLS

CONCRETE BASE TYPE 5

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

CENTRAL AVE.

STH 22

MAIN STREET

452+00 453+00 454+00 455+00 456+00 457+00 458+00

458+00 459+00 460+00 6+00 9+00MA 8+00MA 7+72MA

NOTE:

THE CITY OF OCONTO FALLS WILL REMOVE EXISTING POLES. POLES WILL BE REINSTALLED BY THE CITY OF OCONTO FALLS. COORDINATE REMOVAL AND INSTALLATION WITH THE CITY OF OCONTO FALLS. CONTACT JASON VALENTINE 920-846-4512.

SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS OF NEW BASES.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LIGHTING PLAN	SHEET 65	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\023502_LP.DWG PLOT DATE : 1/9/2015 10:10 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

CONDUIT HDPE 2-INCH (PROVIDED BY CITY OF OCONTO FALLS

CONCRETE BASE TYPE 5

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

REMOVE EXISTING LIGHT POLE BASE

29.5'

S. FRANKLIN ST.

S. WASHINGTON ST.

ADAMS ST.

JEFFERSON RD.

STH 22

STH 22

NOTE:
THE CITY OF OCONTO FALLS WILL REMOVE EXISTING POLES. POLES WILL BE REINSTALLED BY THE CITY OF OCONTO FALLS. COORDINATE REMOVAL AND INSTALLATION WITH THE CITY OF OCONTO FALLS. CONTACT JASON VALENTINE 920-846-4512.

SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS OF NEW BASES.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LIGHTING PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\023503_LP.DWG PLOT DATE : 1/9/2015 10:11 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

CONDUIT HDPE 2-INCH (PROVIDED BY CITY OF OCONTO FALLS

CONCRETE BASE TYPE 5

EXISTING CONDUIT TO BE REUSED INSTALL IN NEW BASE

REMOVE EXISTING LIGHT POLE BASE

JEFFERSON RD.

STH 22

CHESTNUT AVE.

COLUMBIA ST.

10+00

11+00

19+00

20+00

21+00

22+00

7+00CT

8+00CT

9+00CT

10+00CO

11+00CO

12+00CO

12+81CO

NOTE:

THE CITY OF OCONTO FALLS WILL REMOVE EXISTING POLES. POLES WILL BE REINSTALLED BY THE CITY OF OCONTO FALLS. COORDINATE REMOVAL AND INSTALLATION WITH THE CITY OF OCONTO FALLS. CONTACT JASON VALENTINE 920-846-4512.

SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS OF NEW BASES.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	LIGHTING PLAN	SHEET 67	E

PAVING LEGEND

- SHES CONCRETE REQUIRED
- PAVEMENT GAPS

N

CHERRY AVE.

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL)

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1A REQUIRED

CURB RAMP
TYPE 1A REQUIRED

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

440 STH 22 441 442 443 444 445 446

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 7A REQUIRED

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 7A REQUIRED

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

2

N

CALDWELL AVE.

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL)

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1A REQUIRED

CURB RAMP
TYPE 1A REQUIRED

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

446 STH 22 447 448 449 450 451 452

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1A REQUIRED

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1A REQUIRED

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

CALDWELL AVE.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET 68	E

PAVING LEGEND

- SHES CONCRETE REQUIRED
- PAVEMENT GAPS

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1A REQUIRED

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

CENTRAL AVE

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL)

CURB RAMP
TYPE 1A REQUIRED

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

452 453 454 455 456 457 458

STH 22

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1A REQUIRED

CURB RAMP
TYPE 1A REQUIRED

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

CENTRAL AVE.

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 1 REQUIRED

STH 22

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL)

CURB RAMP
TYPE 2 REQUIRED

CURB RAMP
TYPE 2 REQUIRED

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

MAIN STREET

458 459 460

STH 22

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

CURB RAMP
TYPE 7B REQUIRED

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

CURB RAMP
TYPE 7B REQUIRED

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\024502_PM.DWG PLOT DATE : 1/9/2015 10:19 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

PAVING LEGEND

SHES CONCRETE REQUIRED

PAVEMENT GAPS

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE
(TYPICAL-ALL 4 QUADRANTS)

CURB RAMP
TYPE 1A REQUIRED

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL-ALL 4
QUADRANTS)

PAVEMENT MARKING
EPOXY 4-INCH
(WHITE)

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL-ALL 4
QUADRANTS)

CURB RAMP
TYPE 7B REQUIRED

S. FRANKLIN ST.

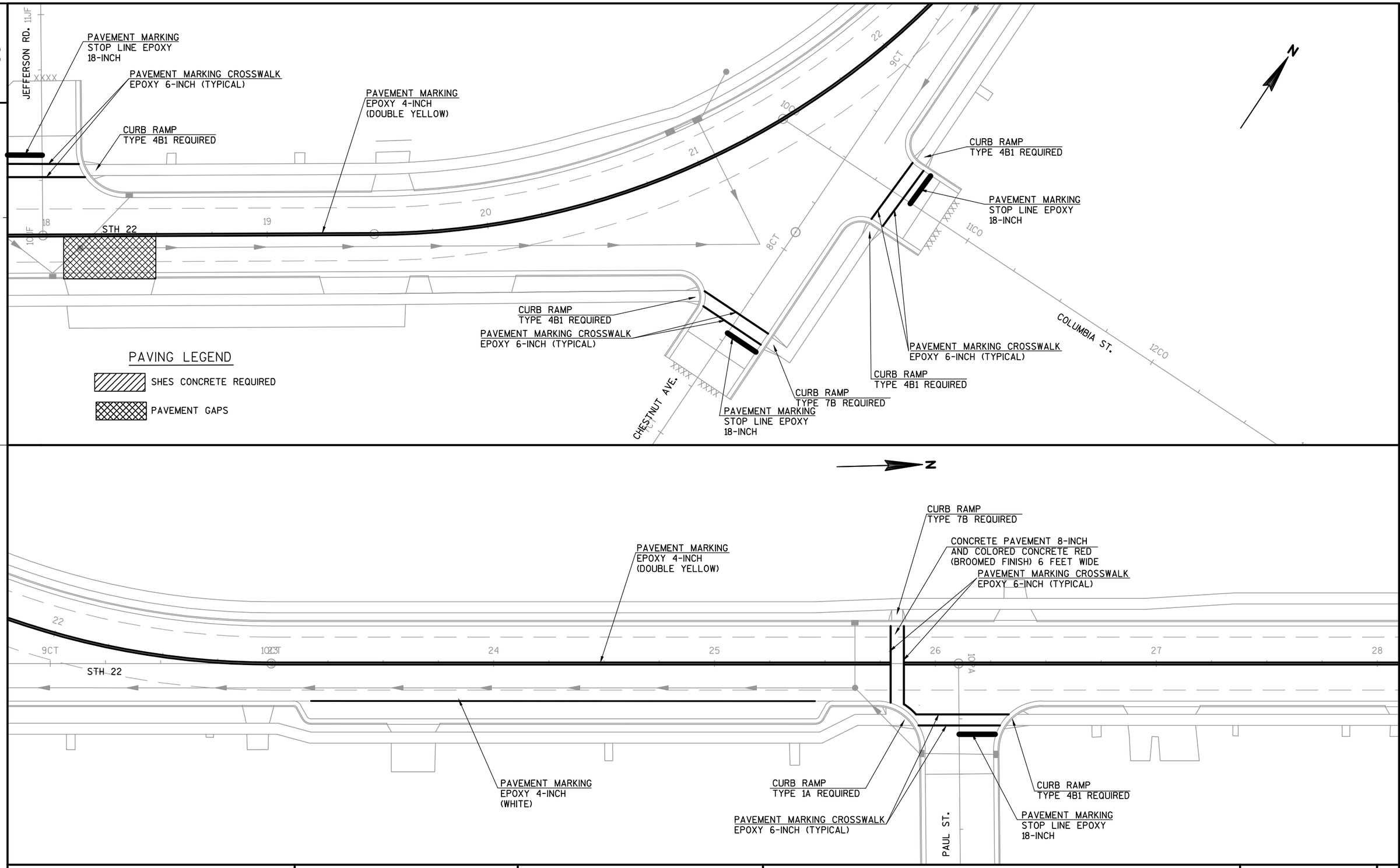
S. WASHINGTON ST.

ADAMS ST.

JEFFERSON RD.

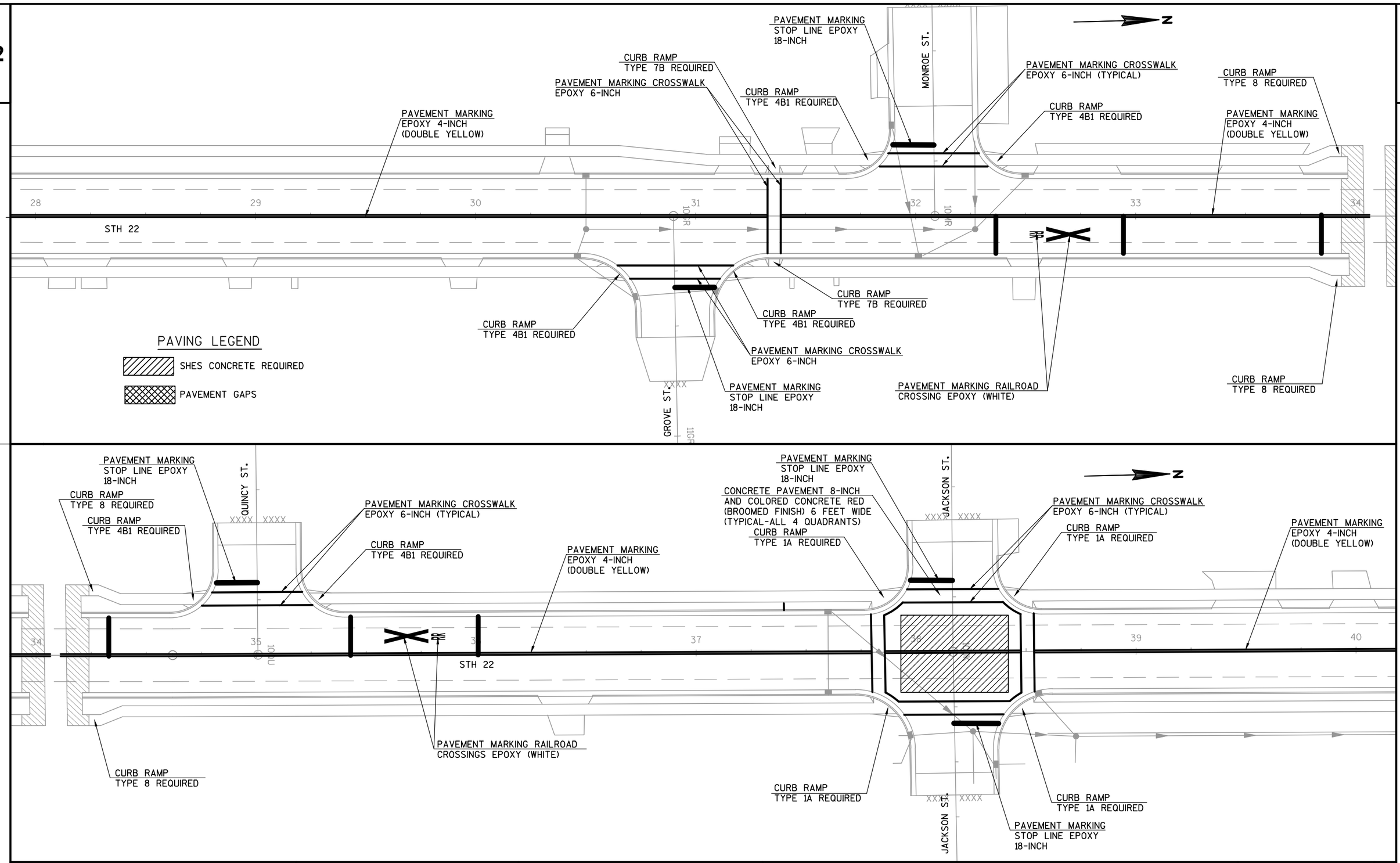
STH 22

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET 70	E



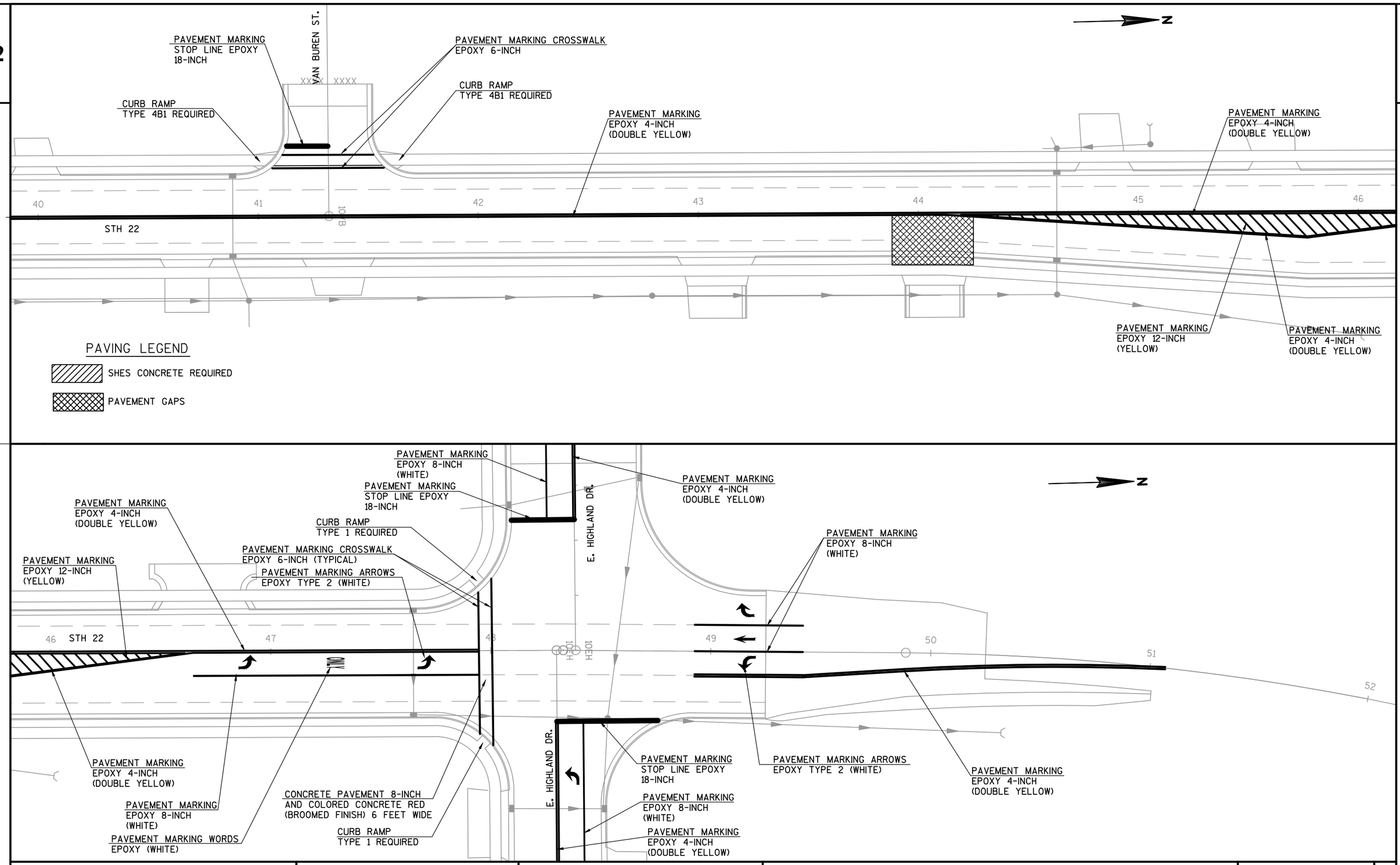
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\024504_PM.DWG PLOT DATE : 1/9/2015 10:21 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1" = 40'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\024505_PM.DWG PLOT DATE : 1/9/2015 10:21 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\024506_PM.DWG PLOT DATE : 1/9/2015 10:22 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

PAVING LEGEND

SHES CONCRETE REQUIRED

PAVEMENT GAPS

N

PAVEMENT MARKING
EPOXY 8-INCH
(WHITE)

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

PAVEMENT MARKING
EPOXY 8-INCH
(WHITE)

PAVEMENT MARKING WORDS
EPOXY (WHITE)

PAVEMENT MARKING ARROWS
EPOXY TYPE 2 (WHITE)

8EH

E. HIGHLAND DR.

9EH

10EH

10EH

11EH

12EH

E. HIGHLAND DR.

13EH

E. HIGHLAND DR.

49

STH 22

48

STH 22

PAVEMENT MARKING ARROWS
EPOXY TYPE 2 (WHITE)

PAVEMENT MARKING
EPOXY 8-INCH
(WHITE)

PAVEMENT MARKING WORDS
EPOXY (WHITE)

PAVEMENT MARKING
STOP LINE EPOXY
18-INCH

CURB RAMP
TYPE 1 REQUIRED

PAVEMENT MARKING CROSSWALK
EPOXY 6-INCH (TYPICAL)

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

PAVEMENT MARKING
EPOXY 4-INCH
(DOUBLE YELLOW)

CURB RAMP
TYPE 1 REQUIRED

CONCRETE PAVEMENT 8-INCH
AND COLORED CONCRETE RED
(BROOMED FINISH) 6 FEET WIDE

PAVEMENT MARKING
EPOXY 8-INCH
(WHITE)

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PAVEMENT MARKING, CURB RAMPS AND SPECIAL PAVING	SHEET 74	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\024507_PM.DWG PLOT DATE : 1/9/2015 10:23 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

END PROJECT 9180-19-71
STA. 49+25
END RECONSTRUCTION

BEGIN PROJECT 9180-19-71
STA. 420+00
BEGIN PAVEMENT REPAIR

STA. 440+91
END PAVEMENT REPAIR
BEGIN RECONSTRUCTION

CTH B
STH 22
HIGHLAND DR
ESCANABA & LAKE SUPERIOR RR
STH 22/MAIN ST
MARKET ST
WILLIAMS ST
JOHN ST
DOUGLAS ST
N MAPLE AVE
LINDEN AVE
CHERRY AVE
CALDWELL AVE
E CENTRAL AVE
MUNSERT AVE
CHESTNUT RD
STH 22
E HIGHLAND DR
ROAD CLOSED .1 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"
VAN BUREN ST
JACKSON ST
QUINCY ST
MONROE ST
ESCANABA & LAKE SUPERIOR RR
GROVE ST
PAUL ST
COLUMBIA ST
JEFFERSON RD
STH 22/CHESTNUT AVE
STH 22/UNION AVE
ADAMS ST
S WASHINGTON ST
S FRANKLIN ST
S MAIN ST
CHESTNUT AVE
CTH I

LEGEND

WORK ZONE

GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME A 'W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS PER SDDS.

MAINTAIN ALL STOP SIGNS AT ALL TIMES. INSTALL TEMPORARY STOP SIGNS AFTER REMOVAL OF EXISTING STOP SIGN AND BEFORE INSTALLATION OF NEW SIGN

MAINTAIN LOCAL AND EMERGENCY ACCESS

MAINTAIN ACCESS FOR PEDESTRIANS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

MAINTAIN CROSSWALKS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

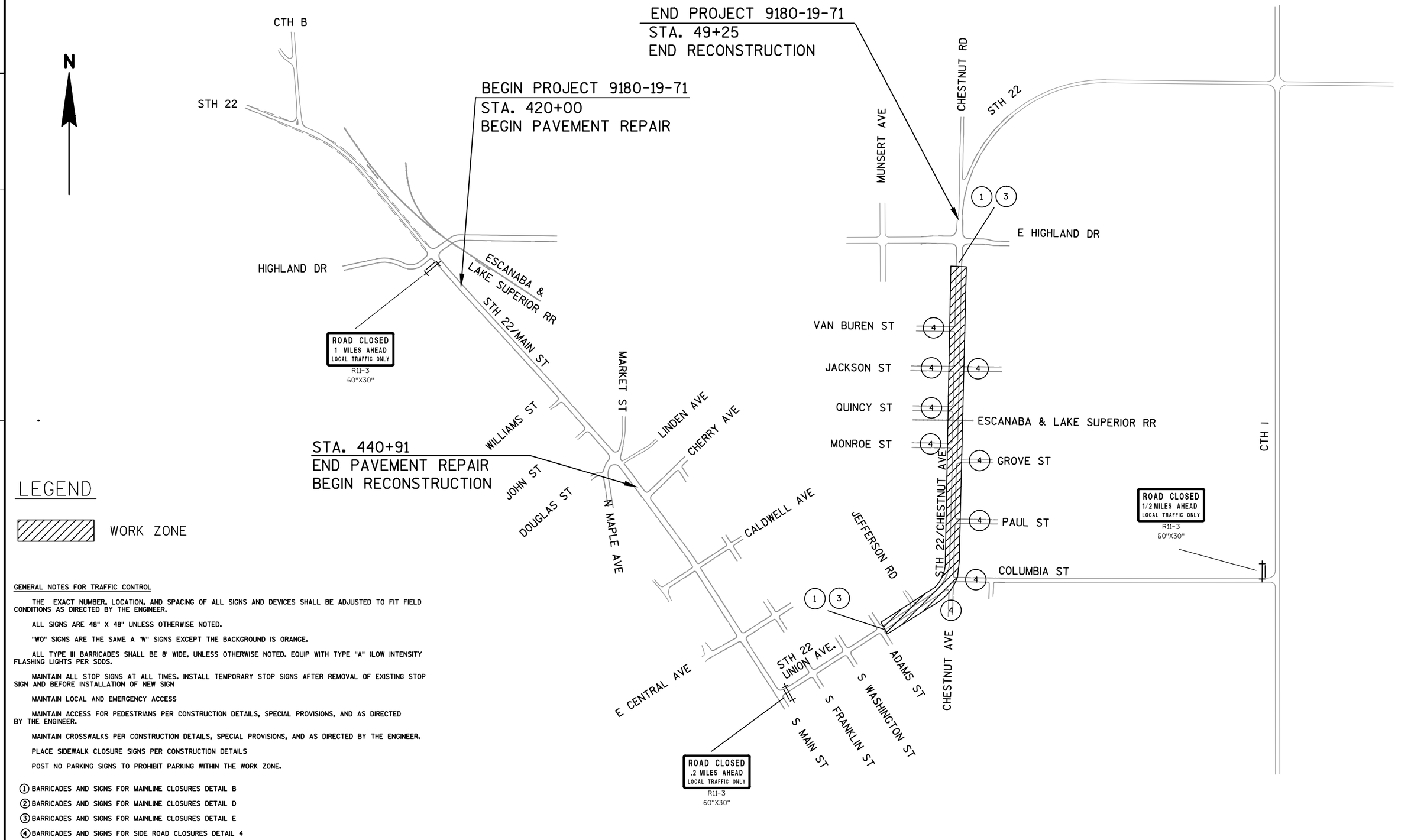
PLACE SIDEWALK CLOSURE SIGNS PER CONSTRUCTION DETAILS

POST NO PARKING SIGNS TO PROHIBIT PARKING WITHIN THE WORK ZONE.

(1) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL B
(2) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D
(3) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL E
(4) BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES DETAIL 4

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TRAFFIC CONTROL STAGE 1-SUBSTAGE 1A	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\025001_TC.DWG PLOT DATE : 1/9/2015 10:28 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 0.001408
WISDOT/CADDS SHEET 42



LEGEND

WORK ZONE

GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS PER SDDS.

MAINTAIN ALL STOP SIGNS AT ALL TIMES. INSTALL TEMPORARY STOP SIGNS AFTER REMOVAL OF EXISTING STOP SIGN AND BEFORE INSTALLATION OF NEW SIGN

MAINTAIN LOCAL AND EMERGENCY ACCESS

MAINTAIN ACCESS FOR PEDESTRIANS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

MAINTAIN CROSSWALKS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

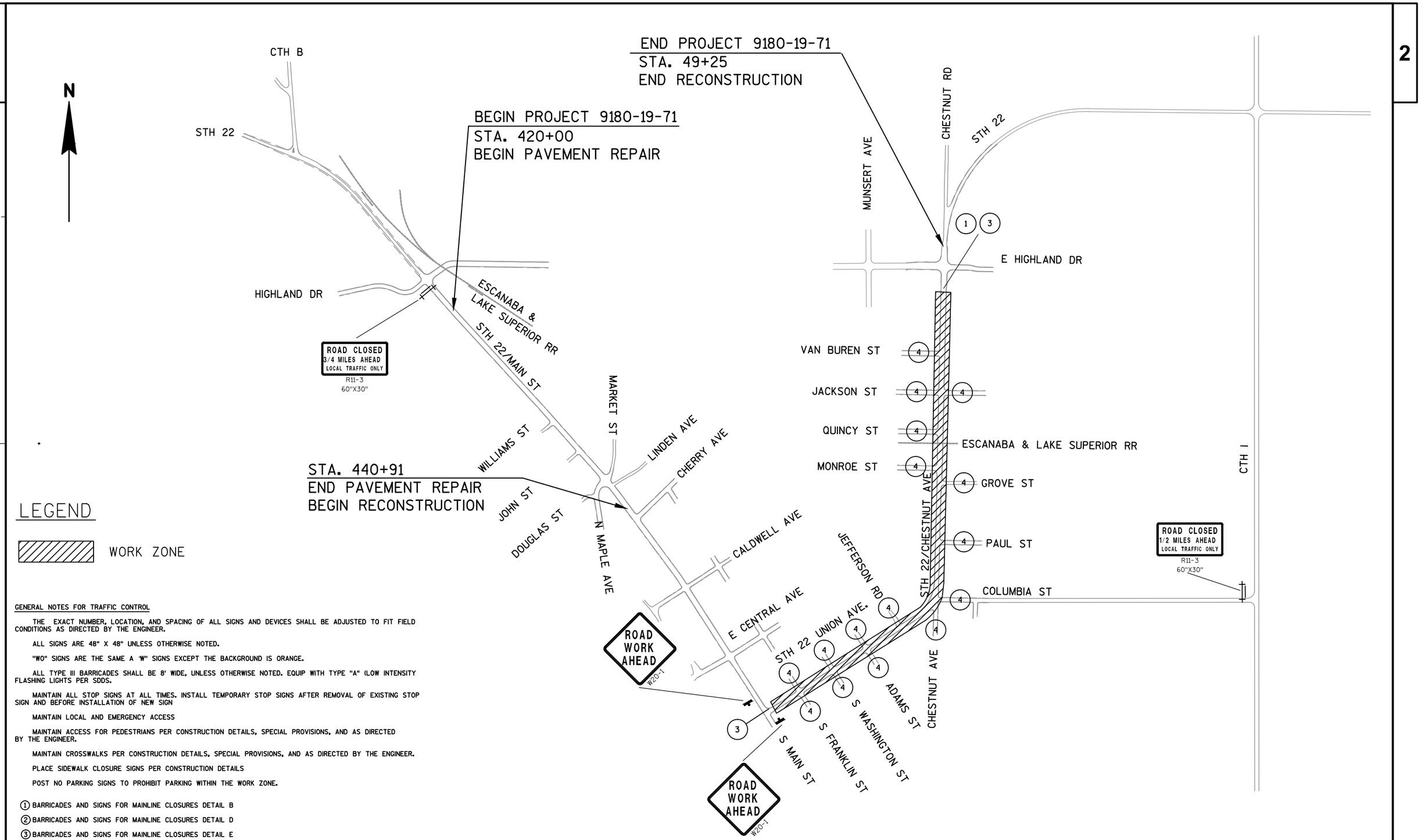
PLACE SIDEWALK CLOSURE SIGNS PER CONSTRUCTION DETAILS

POST NO PARKING SIGNS TO PROHIBIT PARKING WITHIN THE WORK ZONE.

(1) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL B
(2) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D
(3) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL E
(4) BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES DETAIL 4

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TRAFFIC CONTROL STAGE 1-SUBSTAGE 1B	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\025002_TC.DWG PLOT DATE : 1/9/2015 10:28 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 0.001408
WISDOT/CADDS SHEET 42



LEGEND

WORK ZONE

GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS PER SDDS.

MAINTAIN ALL STOP SIGNS AT ALL TIMES. INSTALL TEMPORARY STOP SIGNS AFTER REMOVAL OF EXISTING STOP SIGN AND BEFORE INSTALLATION OF NEW SIGN

MAINTAIN LOCAL AND EMERGENCY ACCESS

MAINTAIN ACCESS FOR PEDESTRIANS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

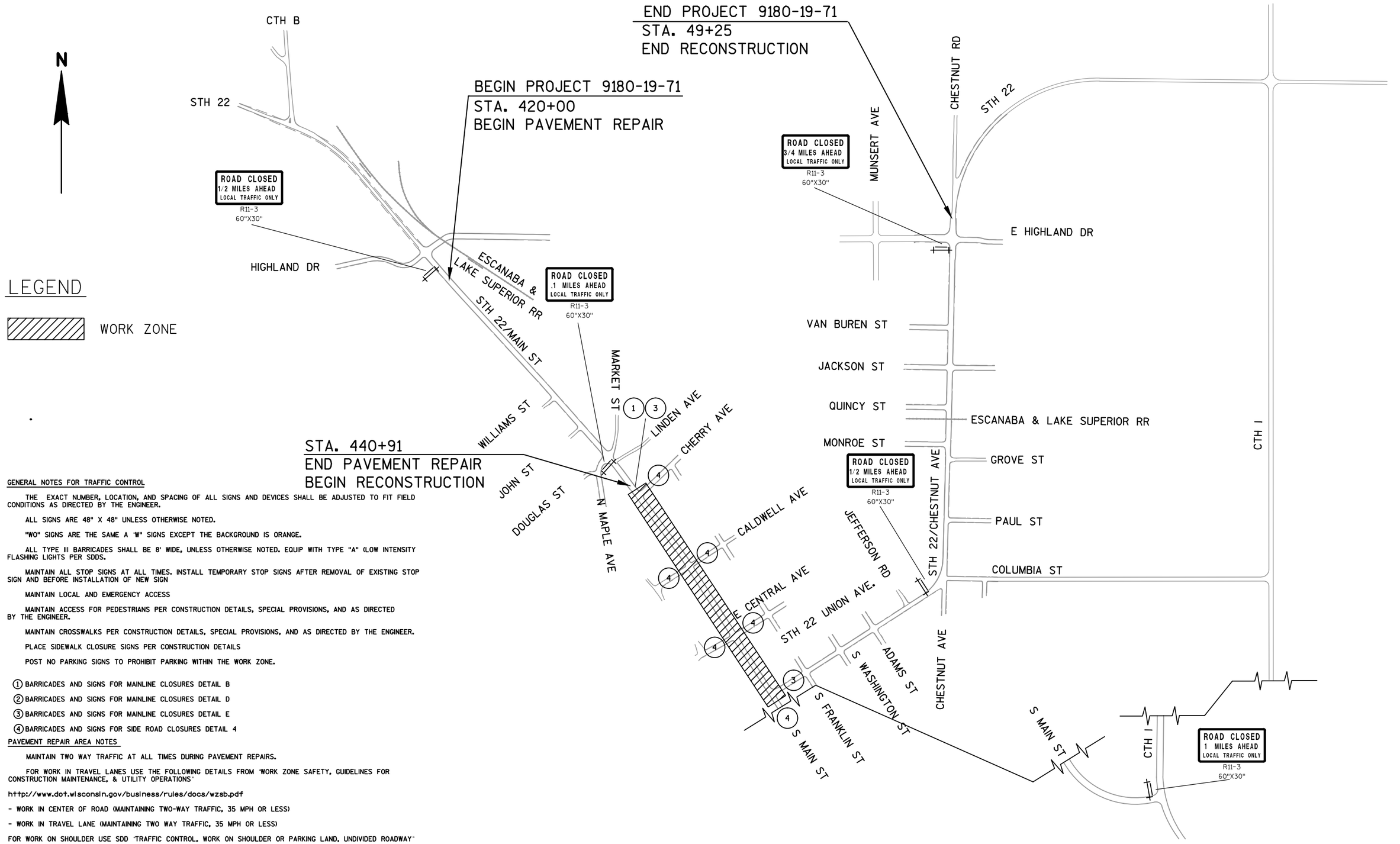
MAINTAIN CROSSWALKS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

PLACE SIDEWALK CLOSURE SIGNS PER CONSTRUCTION DETAILS

POST NO PARKING SIGNS TO PROHIBIT PARKING WITHIN THE WORK ZONE.

(1) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL B
(2) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D
(3) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL E
(4) BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES DETAIL 4

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TRAFFIC CONTROL STAGE 1-SUBSTAGE 1C	SHEET 77	E



GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS PER SDDS.

MAINTAIN ALL STOP SIGNS AT ALL TIMES. INSTALL TEMPORARY STOP SIGNS AFTER REMOVAL OF EXISTING STOP SIGN AND BEFORE INSTALLATION OF NEW SIGN

MAINTAIN LOCAL AND EMERGENCY ACCESS

MAINTAIN ACCESS FOR PEDESTRIANS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

MAINTAIN CROSSWALKS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

PLACE SIDEWALK CLOSURE SIGNS PER CONSTRUCTION DETAILS

POST NO PARKING SIGNS TO PROHIBIT PARKING WITHIN THE WORK ZONE.

(1) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL B

(2) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D

(3) BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL E

(4) BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES DETAIL 4

PAVEMENT REPAIR AREA NOTES

MAINTAIN TWO WAY TRAFFIC AT ALL TIMES DURING PAVEMENT REPAIRS.

FOR WORK IN TRAVEL LANES USE THE FOLLOWING DETAILS FROM "WORK ZONE SAFETY, GUIDELINES FOR CONSTRUCTION MAINTENANCE, & UTILITY OPERATIONS"

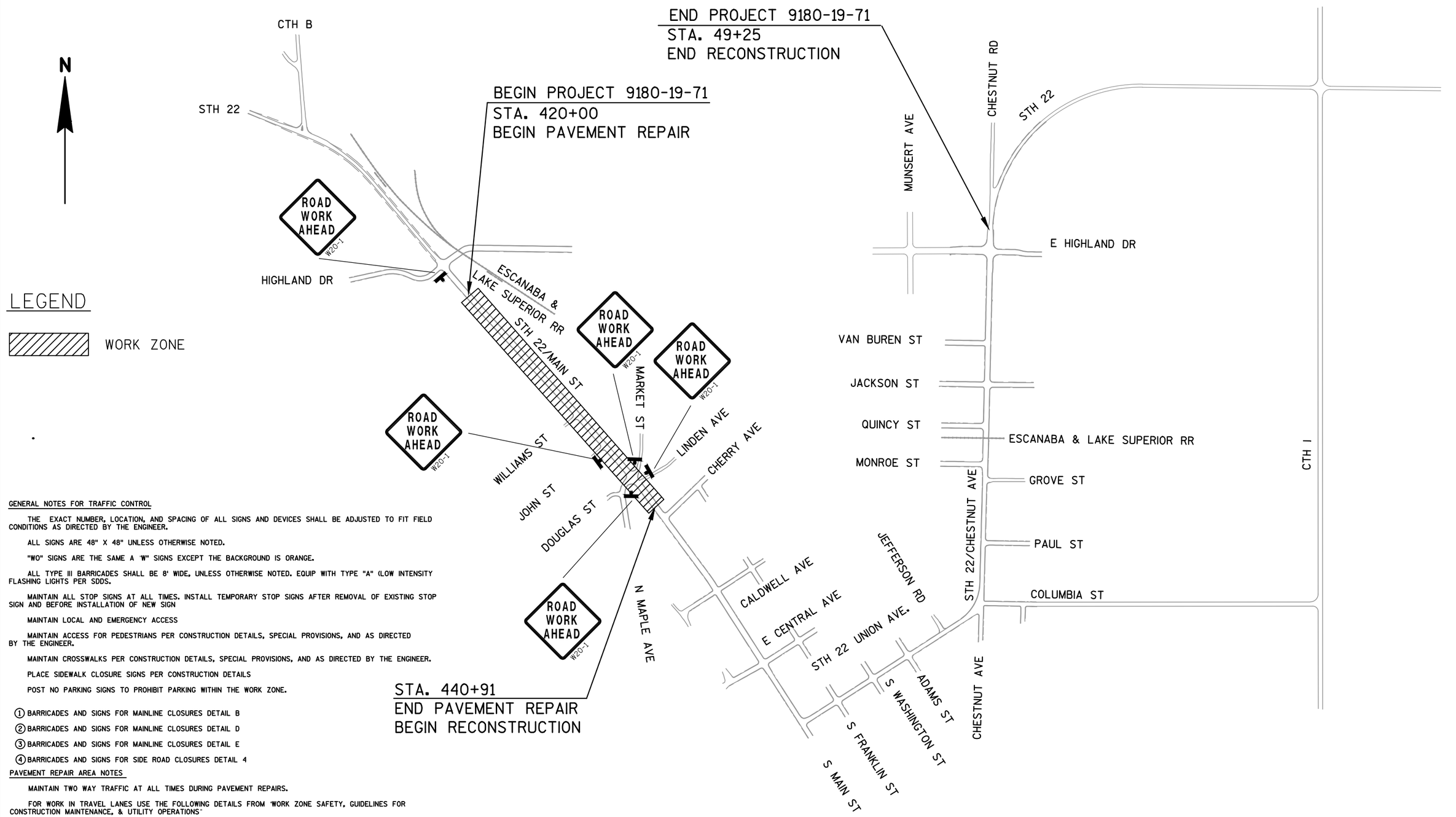
http://www.dot.wisconsin.gov/business/rules/docs/wzsb.pdf

- WORK IN CENTER OF ROAD (MAINTAINING TWO-WAY TRAFFIC, 35 MPH OR LESS)

- WORK IN TRAVEL LANE (MAINTAINING TWO WAY TRAFFIC, 35 MPH OR LESS)

FOR WORK ON SHOULDER USE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LAND, UNDIVIDED ROADWAY"

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TRAFFIC CONTROL STAGE 2-SUBSTAGE 2A	SHEET 78	E



LEGEND

WORK ZONE

GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS PER SDDS.

MAINTAIN ALL STOP SIGNS AT ALL TIMES. INSTALL TEMPORARY STOP SIGNS AFTER REMOVAL OF EXISTING STOP SIGN AND BEFORE INSTALLATION OF NEW SIGN

MAINTAIN LOCAL AND EMERGENCY ACCESS

MAINTAIN ACCESS FOR PEDESTRIANS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

MAINTAIN CROSSWALKS PER CONSTRUCTION DETAILS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.

PLACE SIDEWALK CLOSURE SIGNS PER CONSTRUCTION DETAILS

POST NO PARKING SIGNS TO PROHIBIT PARKING WITHIN THE WORK ZONE.

① BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL B

② BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D

③ BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL E

④ BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES DETAIL 4

PAVEMENT REPAIR AREA NOTES

MAINTAIN TWO WAY TRAFFIC AT ALL TIMES DURING PAVEMENT REPAIRS.

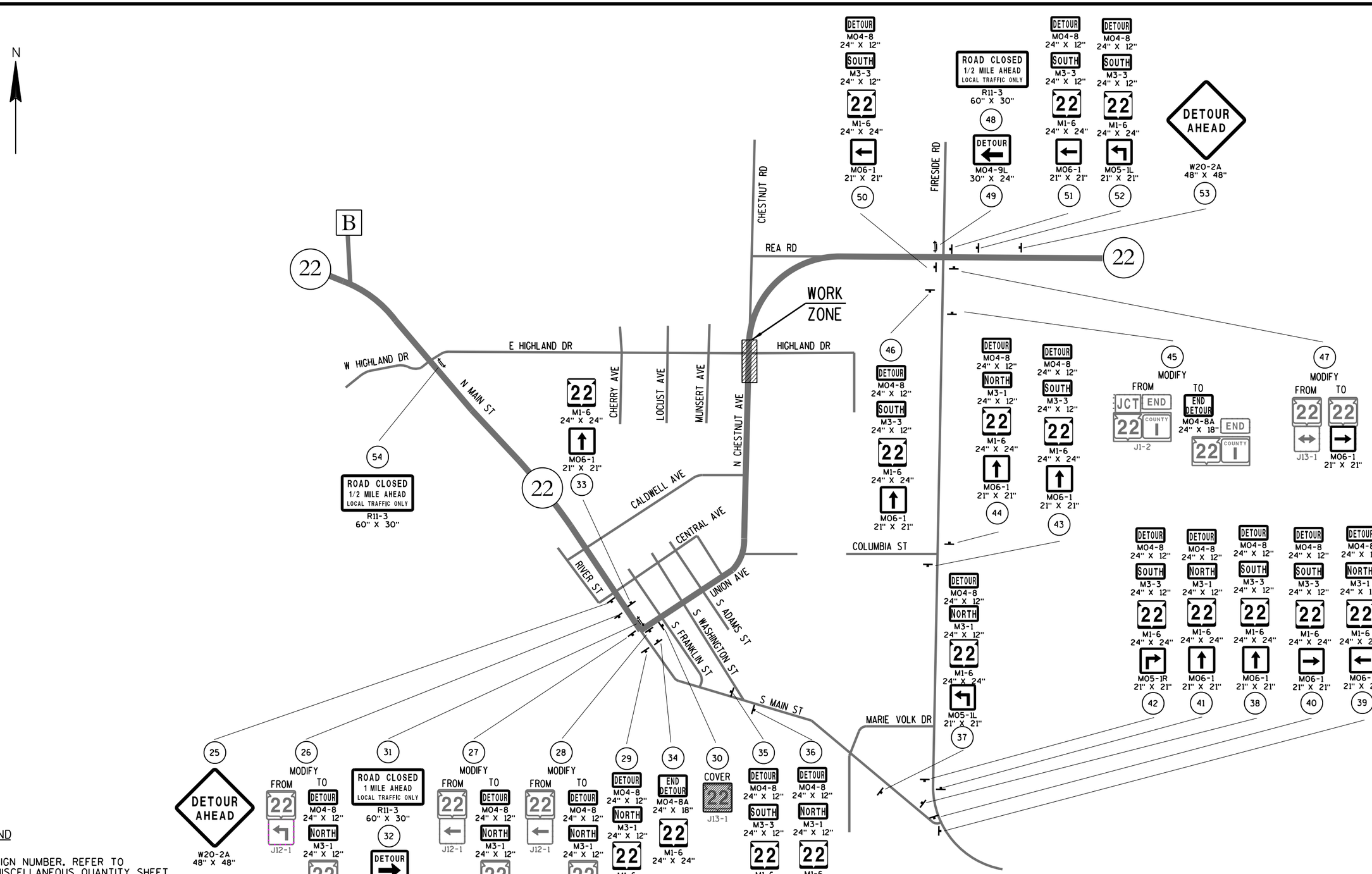
FOR WORK IN TRAVEL LANES USE THE FOLLOWING DETAILS FROM "WORK ZONE SAFETY, GUIDELINES FOR CONSTRUCTION MAINTENANCE, & UTILITY OPERATIONS"

http://www.dot.wisconsin.gov/business/rules/docs/wzsb.pdf

- WORK IN CENTER OF ROAD (MAINTAINING TWO-WAY TRAFFIC, 35 MPH OR LESS)
- WORK IN TRAVEL LANE (MAINTAINING TWO WAY TRAFFIC, 35 MPH OR LESS)

FOR WORK ON SHOULDER USE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LAND, UNDIVIDED ROADWAY"

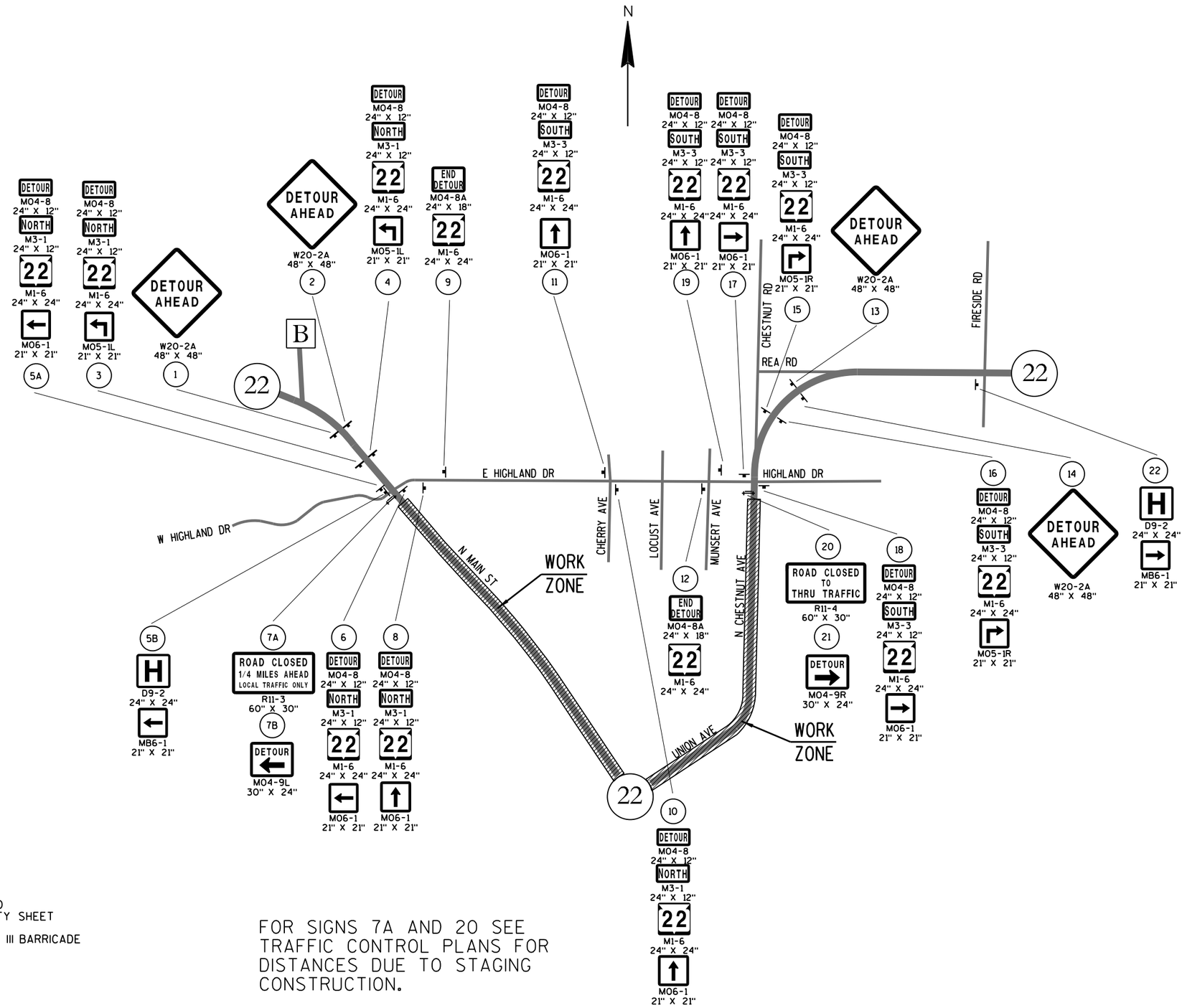
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	TRAFFIC CONTROL STAGE 2-SUBSTAGE 2B	SHEET 79	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	DETOUR SIGNING DETAIL-STAGE 1A	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2



LEGEND

(X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN MOUNTED ON TYPE III BARRICADE

POST MOUNTED SIGN

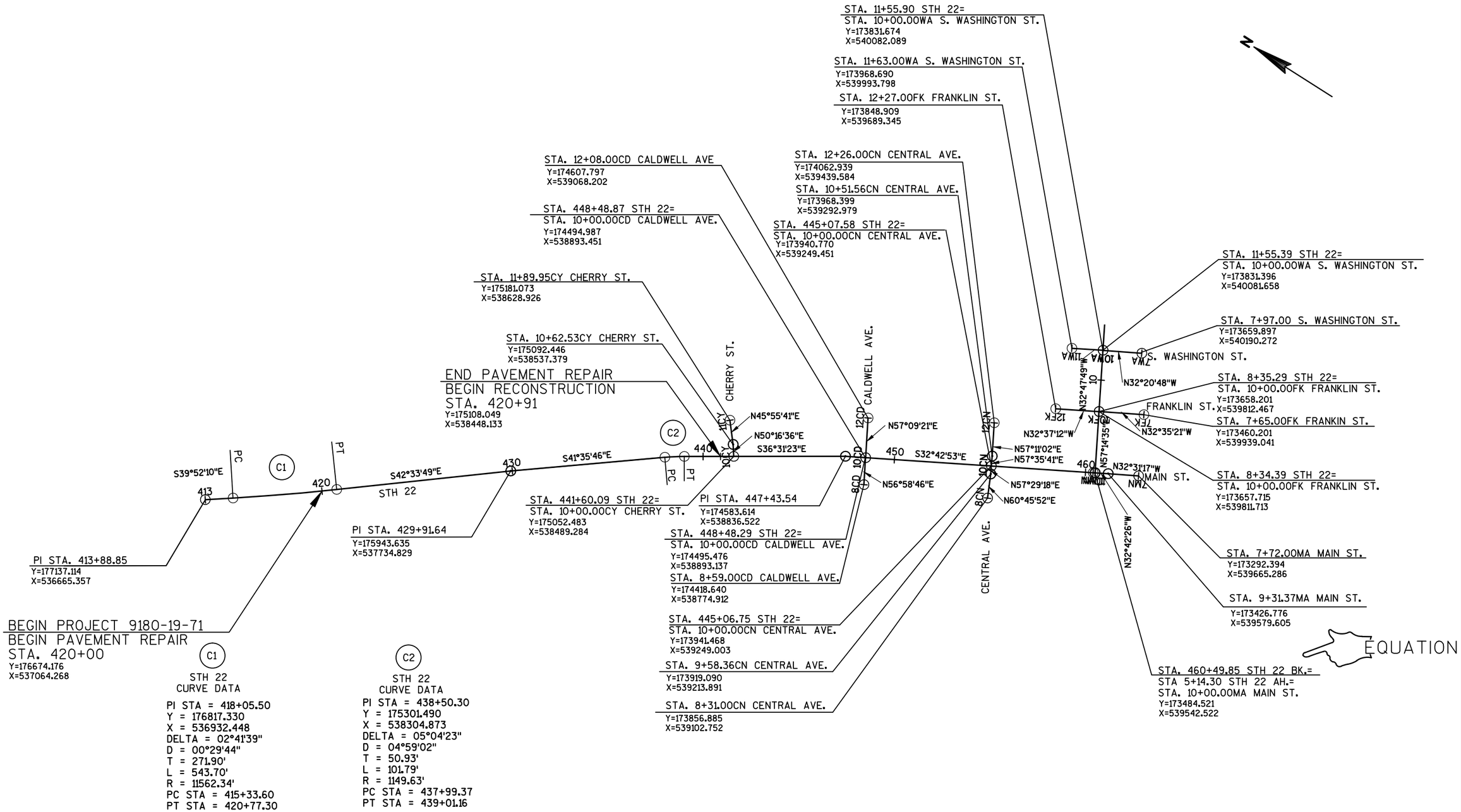
FOR SIGNS 7A AND 20 SEE TRAFFIC CONTROL PLANS FOR DISTANCES DUE TO STAGING CONSTRUCTION.

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	DETOUR SIGNING DETAIL-STAGE 1B/C & STAGE 2	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	ALIGNMENT DIAGRAM	SHEET 82	E

DATE 14JAN15 — E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9180-19-71 QUANTITY
0010	201.0120	Clearing	ID	810.000	810.000
0020	201.0220	Grubbing	ID	1,665.000	1,665.000
0030	204.0100	Removing Pavement	SY	15,130.000	15,130.000
0040	204.0150	Removing Curb & Gutter	LF	5,800.000	5,800.000
0050	204.0155	Removing Concrete Sidewalk	SY	5,300.000	5,300.000
0060	204.0195	Removing Concrete Bases	EACH	29.000	29.000
0070	204.0210	Removing Manholes	EACH	16.000	16.000
0080	204.0220	Removing Inlets	EACH	30.000	30.000
0090	204.0245	Removing Storm Sewer (size) 01. 4-Inch	LF	30.000	30.000
0100	204.0245	Removing Storm Sewer (size) 02. 6-Inch	LF	20.000	20.000
0110	204.0245	Removing Storm Sewer (size) 03. 8-Inch	LF	25.000	25.000
0120	204.0245	Removing Storm Sewer (size) 04. 10-Inch	LF	70.000	70.000
0130	204.0245	Removing Storm Sewer (size) 05. 12-Inch	LF	970.000	970.000
0140	204.0245	Removing Storm Sewer (size) 06. 15-Inch	LF	1,010.000	1,010.000
0150	204.0245	Removing Storm Sewer (size) 07. 18-Inch	LF	845.000	845.000
0160	204.0245	Removing Storm Sewer (size) 08. 21-Inch	LF	630.000	630.000
0170	204.0245	Removing Storm Sewer (size) 09. 30-Inch	LF	45.000	45.000
0180	204.0245	Removing Storm Sewer (size) 10. 36-Inch	LF	25.000	25.000
0190	204.0280	Sealing Pipes	EACH	2.000	2.000
0200	204.9060.S	Removing (item description) 01. Bollard	EACH	3.000	3.000
0210	204.9060.S	Removing (item description) 02. Concrete Anchor	EACH	1.000	1.000
0220	204.9105.S	Removing (item description) 01. Removing Retaining Wall Station 443+25	LS	1.000	1.000
0230	204.9105.S	Removing (item description) 02. Removing Retaining Wall Station 19+50	LS	1.000	1.000
0240	205.0100	Excavation Common	CY	31,000.000	31,000.000
0250	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	1,415.000	1,415.000
0260	209.0300.S	Backfill Coarse Aggregate (size) 01. No 2	CY	3.000	3.000
0270	213.0100	Finishing Roadway (project) 01. 9180-19-71	EACH	1.000	1.000
0280	305.0110	Base Aggregate Dense 3/4-Inch	TON	100.000	100.000
0290	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	16,250.000	16,250.000
0300	311.0110	Breaker Run	TON	20,000.000	20,000.000
0310	405.0100	Coloring Concrete Red	CY	200.000	200.000
0320	415.0080	Concrete Pavement 8-Inch	SY	31,175.000	31,175.000
0330	415.0210	Concrete Pavement Gaps	EACH	5.000	5.000
0340	415.1080	Concrete Pavement HES 8-Inch	SY	1,820.000	1,820.000
0350	416.0160	Concrete Driveway 6-Inch	SY	1,010.000	1,010.000
0360	416.0610	Drilled Tie Bars	EACH	145.000	145.000
0370	416.0620	Drilled Dowel Bars	EACH	1,900.000	1,900.000
0380	416.1710	Concrete Pavement Repair	SY	200.000	200.000
0390	440.4410.S	Incentive IRI Ride	DOL	4,900.000	4,900.000
0400	455.0120	Asphaltic Material PG64-28	TON	30.000	30.000
0410	455.0605	Tack Coat	GAL	110.000	110.000
0420	460.1101	Hma Pavement Type E-1	TON	550.000	550.000
0430	460.2000	Incentive Density HMA Pavement	DOL	360.000	360.000
0440	460.4000	HMA Cold Weather Paving	TON	255.000	255.000
0450	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	170.000	170.000
0460	465.0315	Asphaltic Flumes	SY	4.000	4.000
0470	520.8000	Concrete Collars for Pipe	EACH	13.000	13.000

3

DATE 14JAN15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9180-19-71 QUANTITY
0480	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0490	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0500	532.0200.S	Wall Modular Block Gravity	SF	1,320.000	1,320.000
0510	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	120.000	120.000
0520	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	12,175.000	12,175.000
0530	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	750.000	750.000
0540	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	530.000	530.000
0550	601.0600	Concrete Curb Pedestrian	LF	15.000	15.000
0560	602.0405	Concrete Sidewalk 4-Inch	SF	62,550.000	62,550.000
0570	602.0415	Concrete Sidewalk 6-Inch	SF	14,200.000	14,200.000
0580	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	560.000	560.000
0590	602.1500	Concrete Steps	SF	86.000	86.000
0600	606.0200	Riprap Medium	CY	6.000	6.000
0610	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	2,226.000	2,226.000
0620	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	38.000	38.000
0630	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	280.000	280.000
0640	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	3,691.000	3,691.000
0650	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	46.000	46.000
0660	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	21.000	21.000
0670	611.0535	Manhole Covers Type J-Special	EACH	18.000	18.000
0680	611.0624	Inlet Covers Type H	EACH	36.000	36.000
0690	611.0639	Inlet Covers Type H-S	EACH	21.000	21.000
0700	611.1004	Catch Basins 4-FT Diameter	EACH	3.000	3.000
0710	611.1005	Catch Basins 5-FT Diameter	EACH	2.000	2.000
0720	611.1230	Catch Basins 2x3-FT	EACH	57.000	57.000
0730	611.2004	Manholes 4-FT Diameter	EACH	12.000	12.000
0740	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000
0750	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0760	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0770	611.8110	Adjusting Manhole Covers	EACH	5.000	5.000
0780	611.8115	Adjusting Inlet Covers	EACH	10.000	10.000
0790	611.9800.S	Pipe Grates	EACH	2.000	2.000
0800	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	85.000	85.000
0810	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	510.000	510.000
0820	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	60.000	60.000
0830	616.0700.S	Fence Safety	LF	4,000.000	4,000.000
0840	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9180-19-71	EACH	1.000	1.000
0850	619.1000	Mobilization	EACH	1.000	1.000
0860	623.0200	Dust Control Surface Treatment	SY	50,000.000	50,000.000
0870	624.0100	Water	MGAL	365.000	365.000
0880	625.0100	Topsoil	SY	11,550.000	11,550.000
0890	627.0200	Mulching	SY	2,500.000	2,500.000
0900	628.1504	Silt Fence	LF	1,500.000	1,500.000

3

DATE 14JAN15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9180-19-71 QUANTITY
0910	628.1520	Silt Fence Maintenance	LF	3,000.000	3,000.000
0920	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0930	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0940	628.2004	Erosion Mat Class I Type B	SY	800.000	800.000
0950	628.2006	Erosion Mat Urban Class I Type A	SY	12,000.000	12,000.000
0960	628.7005	Inlet Protection Type A	EACH	67.000	67.000
0970	628.7010	Inlet Protection Type B	EACH	5.000	5.000
0980	628.7015	Inlet Protection Type C	EACH	90.000	90.000
0990	628.7020	Inlet Protection Type D	EACH	12.000	12.000
1000	628.7560	Tracking Pads	EACH	6.000	6.000
1010	628.7570	Rock Bags	EACH	50.000	50.000
1020	629.0210	Fertilizer Type B	CWT	9.000	9.000
1030	630.0120	Seeding Mixture No. 20	LB	15.000	15.000
1040	630.0140	Seeding Mixture No. 40	LB	235.000	235.000
1050	630.0200	Seeding Temporary	LB	50.000	50.000
1060	632.0101	Trees (species) (size) (root) 01. Hot Wings Maple, B&B, 2.5" Cal	EACH	4.000	4.000
1070	632.0101	Trees (species) (size) (root) 02. White Oak, B&B, 2.5" Cal	EACH	3.000	3.000
1080	632.0201	Shrubs (species) (size) (root) 01. Nearly Wild Rose, CG, #5	EACH	29.000	29.000
1090	632.0201	Shrubs (species) (size) (root) 02. Sundrop Spriea, CG, #5	EACH	25.000	25.000
1100	632.0201	Shrubs (species) (size) (root) 03. Fritsch Spires, CG, #5	EACH	3.000	3.000
1110	632.0201	Shrubs (species) (size) (root) 04. Neon Flash Spirea, CG, #5	EACH	2.000	2.000
1120	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	15.000	15.000
1130	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	34.000	34.000
1140	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	48.000	48.000
1150	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	19.000	19.000
1160	637.2210	Signs Type II Reflective H	SF	573.570	573.570
1170	637.2230	Signs Type II Reflective F	SF	130.140	130.140
1180	638.2102	Moving Signs Type II	EACH	6.000	6.000
1190	638.2602	Removing Signs Type II	EACH	107.000	107.000
1200	638.3000	Removing Small Sign Supports	EACH	66.000	66.000
1210	638.4000	Moving Small Sign Supports	EACH	6.000	6.000
1220	642.5001	Field Office Type B	EACH	1.000	1.000
1230	643.0100	Traffic Control (project) 01. 9180-19-71	EACH	1.000	1.000
1240	643.0300	Traffic Control Drums	DAY	40,200.000	40,200.000
1250	643.0410	Traffic Control Barricades Type II	DAY	4,920.000	4,920.000
1260	643.0420	Traffic Control Barricades Type III	DAY	10,640.000	10,640.000
1270	643.0705	Traffic Control Warning Lights Type A	DAY	20,760.000	20,760.000
1280	643.0715	Traffic Control Warning Lights Type C	DAY	8,640.000	8,640.000
1290	643.0900	Traffic Control Signs	DAY	22,872.000	22,872.000
1300	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
1310	643.1050	Traffic Control Signs PCMS	DAY	100.000	100.000
1320	643.2000	Traffic Control Detour (project) 01. 9180-19-71	EACH	1.000	1.000
1330	643.3000	Traffic Control Detour Signs	DAY	12,076.000	12,076.000
1340	645.0112	Geotextile Fabric Type DF Schedule B	SY	40.000	40.000
1350	645.0120	Geotextile Fabric Type HR	SY	8.000	8.000
1360	645.0140	Geotextile Fabric Type SAS	SY	5,000.000	5,000.000
1370	646.0106	Pavement Marking Epoxy 4-Inch	LF	18,140.000	18,140.000

3

DATE 14JAN15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9180-19-71 QUANTITY
1380	646.0126	Pavement Marking Epoxy 8-Inch	LF	470.000	470.000
1390	647.0110	Pavement Marking Railroad Crossings Epoxy	EACH	2.000	2.000
1400	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	2.000	2.000
1410	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	8.000	8.000
1420	647.0356	Pavement Marking Words Epoxy	EACH	4.000	4.000
1430	647.0456	Pavement Marking Curb Epoxy	LF	2,830.000	2,830.000
1440	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	475.000	475.000
1450	647.0653	Pavement Marking Parking Stall Paint	LF	60.000	60.000
1460	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	80.000	80.000
1470	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	3,245.000	3,245.000
1480	650.4000	Construction Staking Storm Sewer	EACH	80.000	80.000
1490	650.4500	Construction Staking Subgrade	LF	7,800.000	7,800.000
1500	650.5000	Construction Staking Base	LF	593.000	593.000
1510	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	13,352.000	13,352.000
1520	650.7000	Construction Staking Concrete Pavement	LF	7,207.000	7,207.000
1530	650.8500	Construction Staking Electrical Installations (project) 01. 9180-19-71	LS	1.000	1.000
1540	650.9910	Construction Staking Supplemental Control (project) 01. 9180-19-71	LS	1.000	1.000
1550	650.9920	Construction Staking Slope Stakes	LF	7,800.000	7,800.000
1560	654.0105	Concrete Bases Type 5	EACH	29.000	29.000
1570	690.0150	Sawing Asphalt	LF	2,400.000	2,400.000
1580	690.0250	Sawing Concrete	LF	5,015.000	5,015.000
1590	715.0415	Incentive Strength Concrete Pavement	DOL	2,589.000	2,589.000
1600	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
1610	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
1620	SPV.0035	Special 01. Planting Mixture	CY	190.000	190.000
1630	SPV.0035	Special 02. Topsoil Special	CY	21.000	21.000
1640	SPV.0060	Special 01. Inlet Covers Type BH	EACH	5.000	5.000
1650	SPV.0060	Special 02. Inlet Covers Type H-D	EACH	1.000	1.000
1660	SPV.0060	Special 03. Utility Line Opening	EACH	10.000	10.000
1670	SPV.0060	Special 04. Adjusting Sanitary Manhole Cover	EACH	32.000	32.000
1680	SPV.0060	Special 05. Adjusting Water Valve Boxes	EACH	64.000	64.000
1690	SPV.0060	Special 06. Adjusting Water Service Curb Stop	EACH	100.000	100.000
1700	SPV.0060	Special 07. Temporary Curb Ramp	EACH	10.000	10.000
1710	SPV.0060	Special 08. Concrete Bench	EACH	5.000	5.000
1720	SPV.0060	Special 09. Concrete Trash Receptacle	EACH	4.000	4.000
1730	SPV.0060	Special 10. Concrete Pedestal Fountain	EACH	1.000	1.000
1740	SPV.0060	Special 11. Pedestrian Crosswalk Sign	EACH	3.000	3.000
1750	SPV.0060	Special 12. Blue Ice Amsonia, CG, #1	EACH	45.000	45.000
1760	SPV.0060	Special 13. Cardinal Flower, CG, #1	EACH	46.000	46.000
1770	SPV.0060	Special 14. Volcano Red Phlox, CG, #1	EACH	47.000	47.000
1780	SPV.0060	Special 15. Blue Hill Salvia, CG, #1	EACH	66.000	66.000
1790	SPV.0060	Special 16. Fall Blooming Feather Reed Grass, CG, #1	EACH	53.000	53.000
1800	SPV.0060	Special 17. Tufted Hair Grass, CG, #1	EACH	34.000	34.000
1810	SPV.0060	Special 18. Flame Grass, CG, #1	EACH	41.000	41.000
1820	SPV.0060	Special 19. Prairie Dropseed, CG, #1	EACH	27.000	27.000
1830	SPV.0075	Special 01. Street Sweeping	HRS	100.000	100.000

3

DATE 14JAN15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9180-19-71 QUANTITY
1840	SPV.0090	Special 01. Concrete Curb & Gutter SHES 30-Inch Type A	LF	155.000	155.000
1850	SPV.0090	Special 02. Storm Sewer PVC Pipe 6-Inch	LF	57.000	57.000
1860	SPV.0090	Special 03. Storm Sewer PVC Pipe 8-Inch	LF	26.000	26.000
1870	SPV.0090	Special 04. Storm Sewer PVC Pipe 12-Inch	LF	21.000	21.000
1880	SPV.0090	Special 05. Temporary Pedestrian Fence Safety	LF	3,000.000	3,000.000
1890	SPV.0090	Special 06. Remove And Reinstall Chain Link Fence	LF	170.000	170.000
1900	SPV.0090	Special 07. Concrete Curb And Gutter HES 30-Inch Type A	LF	430.000	430.000
1910	SPV.0090	Special 08. Concrete Curb And Gutter HES 30-Inch Type D	LF	40.000	40.000
1920	SPV.0090	Special 09. Concrete Curb And Gutter 24-Inch Type D	LF	45.000	45.000
1930	SPV.0090	Special 10. Installing Conduit	LF	4,085.000	4,085.000
1940	SPV.0090	Special 11. Concrete Landscaping Curb	LF	400.000	400.000
1950	SPV.0090	Special 12. Concrete Paver Edge	LF	50.000	50.000
1960	SPV.0090	Special 13. Concrete Joint And Crack Cleaning	LF	200.000	200.000
1970	SPV.0105	Special 01. Concrete Pavement Joint Layout	LS	1.000	1.000
1980	SPV.0120	Special 01. Water For Seeded Areas	MGAL	260.000	260.000
1990	SPV.0165	Special 01. Remove And Salvage Brick Pavers	SF	1,000.000	1,000.000
2000	SPV.0165	Special 02. Install Salvaged Brick Pavers	SF	225.000	225.000
2010	SPV.0165	Special 03. Concrete Sidewalk SHES 6-Inch	SF	1,165.000	1,165.000
2020	SPV.0180	Special 01. Concrete Pavement SHES 8-Inch	SY	350.000	350.000
2030	SPV.0180	Special 02. Concrete Driveway SHES 6-Inch	SY	15.000	15.000
2040	SPV.0180	Special 03. Shredded Hardwood Bark Mulch	SY	385.000	385.000

CLEARING AND GRUBBING

STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID
447+78	STH 22, RT	6	6
448+01	STH 22, RT	8	8
451+62	STH 22, RT	18	18
453+31	STH 22, LT	12	12
453+83	STH 22, RT	-	12
456+55	STH 22, RT	-	26
457+13	STH 22, RT	17	17
457+57	STH 22, RT	24	24
457+92	STH 22, RT	12	12
458+11	STH 22, RT	21	21
458+47	STH 22, LT	-	32
459+16	STH 22, LT	8	8
459+54	STH 22, LT	-	30
459+72	STH 22, LT	20	20
460+02	STH 22, LT	28	28
460+10	STH 22, RT	26	26
460+34	STH 22, RT	32	32
5+75	STH 22, LT	28	28
5+93	STH 22, LT	28	28
7+42	STH 22, LT	28	28
7+79	STH 22, LT	25	25
8+88	STH 22, LT	-	28
9+12	STH 22, RT	-	24
9+28	STH 22, LT	-	28
9+59	STH 22, RT	-	16
9+66	STH 22, LT	-	28
10+15	STH 22, RT	-	18
10+43	STH 22, LT	26	26
10+48	STH 22, RT	20	20
10+62	STH 22, LT	26	26
10+95	STH 22, LT	20	20
12+35	STH 22, LT	-	26
12+66	STH 22, LT	-	25
12+66	STH 22, RT	30	30
12+93	STH 22, LT	6	6
12+96	STH 22, RT	21	21
13+26	STH 22, LT	-	28
13+64	STH 22, RT	-	8
13+88	STH 22, LT	6	6

CLEARING AND GRUBBING (CONTINUED)

STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID
14+20	STH 22, LT	-	29
14+33	STH 22, RT	-	38
15+23	STH 22, LT	16	16
15+37	STH 22, LT	20	20
18+38	STH 22, LT	-	26
18+67	STH 22, LT	-	14
18+86	STH 22, LT	-	36
19+10	STH 22, LT	-	36
19+31	STH 22, LT	-	36
19+43	STH 22, LT	-	30
21+71	STH 22, LT	-	15
22+17	STH 22, LT	-	15
22+35	STH 22, RT	-	22
22+57	STH 22, RT	-	20
22+63	STH 22, LT	-	12
22+79	STH 22, RT	-	12
23+06	STH 22, LT	-	25
23+08	STH 22, RT	-	12
23+20	STH 22, RT	25	25
23+35	STH 22, RT	10	10
23+46	STH 22, RT	-	24
23+50	STH 22, LT	-	24
23+93	STH 22, LT	-	12
23+94	STH 22, RT	20	20
24+21	STH 22, RT	18	18
24+35	STH 22, LT	-	30
24+85	STH 22, LT	-	24
24+88	STH 22, RT	30	30
25+02	STH 22, RT	30	30
25+28	STH 22, RT	25	25
25+28	STH 22, LT	-	5
25+55	STH 22, RT	-	13
30+67	STH 22, LT	6	6
32+66	STH 22, RT	18	18
39+65	STH 22, RT	6	6
40+37	STH 22, RT	6	6
9+43	WASHINGTON STREET, LT	18	18
9+51	WASHINGTON STREET, RT	20	20
9+62	WASHINGTON STREET, LT	32	32
10+46	ADAMS STREET, RT	-	16
10+58	PAUL STREET, LT	14	14
TOTALS		810	1,665

REMOVING CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 LF	REMARKS
0010						
	27+50	-	30+74	STH 22, RT	530	
	27+50	-	31+90	STH 22, LT	335	
	31+05	-	34+01	STH 22, RT	300	
	32+25	-	34+01	STH 22, LT	239	
	34+17	-	38+00	STH 22, RT	412	
	34+17	-	34+83	STH 22, LT	93	
	35+18	-	37+98	STH 22, LT	337	
	38+35	-	48+11	STH 22, RT	1,083	
	38+35	-	41+14	STH 22, LT	338	
	41+50	-	48+09	STH 22, LT	747	
	48+52	-	48+93	STH 22, RT	117	
	48+65	-	49+18	STH 22, LT	104	
	10+63	-	10+75	CHERRY AVE	24	
	9+61	-	9+68	CALDWELL AVE	13	
	10+33	-	10+46	CALDWELL AVE	23	
	9+35	-	9+67	CENTRAL AVE	64	
	10+35	-	10+65	CENTRAL AVE	60	
	9+15	-	9+61	FRANKLIN ST	91	
	10+36	-	10+55	FRANKLIN ST	39	
	9+25	-	9+63	WASHINGTON ST	75	
	10+30	-	10+55	WASHINGTON ST	50	
	9+20	-	9+62	ADAMS ST	86	
	9+75	-	10+60	ADAMS ST	50	
	10+16	-	10+70	JEFFERSON RD	65	
	7+30	-	8+34	S. CHESTNUT AVE	139	
	10+50	-	10+85	COLUMBIA ST	67	
	10+33	-	11+00	PAUL ST	135	
		43+20		STH 22, RT	15	CE
	43+94	-	44+21	STH 22, RT	29	CE
	46+50	-	46+90	STH 22, LT	40	CE
			SUBTOTAL		5,700	
0030						
	420+00	-	440+91	STH 22	100	PAVEMENT REPAIR & INLET ADJ.
			SUBTOTAL		100	
			TOTAL		5,800	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
0010						
	440+91	-	441+00	STH 22	22	
	441+00	-	455+44	STH 22	3,851	
	455+44	-	456+37	STH 22	230	
	456+37	-	459+93	STH 22	811	
	459+93	-	6+06	STH 22	510	
	6+06	-	19+47	STH 22	2,719	
	19+47	-	22+84	STH 22	589	
	22+84	-	27+50	STH 22	958	
	27+50	-	30+89	STH 22	377	
	30+89	-	49+25	STH 22	2,040	
	10+19	-	15+52	CHERRY AVE	122	
	9+68	-	9+79	CALDWELL AVE	27	
	9+67	-	9+79	CENTRAL AVE	40	
	9+50	-	9+82	S. MAIN ST	93	
	9+60	-	9+79	FRANKLIN ST	52	
	10+12	-	10+36	FRANKLIN ST	32	
	9+62	-	9+80	WASHINGTON ST	50	
	10+12	-	10+30	WASHINGTON ST	25	
	9+62	-	9+80	ADAMS ST	24	
	10+16	-	10+34	PAUL ST	26	
	441+49	-	441+73	STH 22, RT	21	CE
	441+80	-	442+17	STH 22, RT	33	CE
	442+83	-	443+16	STH 22, RT	30	CE
	443+43	-	443+79	STH 22, RT	32	CE
	444+16	-	444+34	STH 22, LT	16	CE
	445+03	-	445+21	STH 22, RT	16	CE
	445+32	-	445+60	STH 22, LT	25	CE
	445+54	-	445+71	STH 22, RT	15	PE
	446+07	-	446+25	STH 22, LT	16	CE
	446+91	-	447+06	STH 22, LT	13	PE
	446+90	-	447+11	STH 22, RT	19	PE
	450+70	-	450+79	STH 22, LT	9	CE
	451+04	-	451+14	STH 22, LT	10	PE
	453+41	-	453+70	STH 22, RT	26	CE
	455+90	-	456+10	STH 22, RT	27	PE
	456+00	-	456+62	STH 22, LT	176	CE
	457+64	-	457+78	STH 22, RT	19	PE
	458+35	-	458+49	STH 22, RT	20	PE
	458+90	-	459+09	STH 22, RT	28	PE
	459+45	-	459+61	STH 22, RT	28	PE

REMOVING PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
0010						
	9+71	-	9+97	MAIN AVENUE, LT	58	PE
	6+66	-	6+81	STH 22, LT	20	PE
	6+67	-	6+83	STH 22, RT	19	PE
	9+88	-	10+03	STH 22, RT	17	PE
	9+88	-	10+05	STH 22, LT	19	PE
	12+51	-	12+69	STH 22, RT	18	PE
	13+07	-	13+25	STH 22, RT	38	PE
	9+22	-	9+62	ADAMS STREET, RT	60	CE
	15+13	-	15+54	STH 22, RT	82	CE
	15+64	-	15+91	STH 22, LT	60	PE
	15+85	-	16+25	STH 22, RT	81	CE
	16+19	-	16+54	STH 22, LT	106	CE
	17+37	-	17+50	STH 22, RT	19	PE
	10+47	-	10+65	JEFFERSON ROAD, LT	12	CE
	18+12	-	19+61	STH 22, RT	55	CE
	19+27	-	19+61	STH 22, RT	54	CE
	19+47	-	19+66	STH 22, LT	28	PE
	19+68	-	20+08	STH 22, RT	59	CE
	20+38	-	20+74	STH 22, RT	56	CE
	22+84	-	23+03	STH 22, RT	24	PE
	23+52	-	23+73	STH 22, RT	65	PE
	26+85	-	27+15	STH 22, RT	81	PE
	28+04	-	28+34	STH 22, RT	43	PE
	28+86	-	29+00	STH 22, RT	19	PE
	42+82	-	43+20	STH 22, RT	62	CE
	43+96	-	44+19	STH 22, RT	43	CE
	SUBTOTAL				14,375	
0020						
	ENTIRE PROJECT			STH 22	755	REMOVALS FOR COLORED X-WALKS
	SUBTOTAL				755	
	TOTAL				15,130	

NOTE:
-QUANTITIES REFLECT APPROXIMATELY 50% OF EXISTING CONCRETE PAVEMENT WAS REMOVED THROUGHOUT THE PROJECT AREA DURING WATER AND SANITARY SEWER REPLACEMENT IN 2014.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	204.0155 SY	COMMENT
0010						
	440+91	-	448+35	STH 22, LT	690	
	441+00	-	448+31	STH 22, RT	526	
	448+66	-	454+86	STH 22, LT	665	
	448+66	-	454+86	STH 22, RT	670	
	455+28	-	8+15	STH 22, LT	530	
	455+29	-	460+50	STH 22, RT	354	
	9+45	-	9+72	MAIN ST	18	
	5+36	-	8+15	STH 22, RT	194	
	8+55	-	11+35	STH 22, LT	188	
	8+55	-	11+35	STH 22, RT	196	
	11+75	-	14+55	STH 22, LT	250	
	11+76	-	14+56	STH 22, RT	180	
	14+96	-	17+77	STH 22, LT	158	
	14+96	-	20+78	STH 22, RT	230	
	21+81	-	25+90	STH 22, RT	250	
	26+29	-	29+19	STH 22, RT	90	
	31+43	-	31+65	STH 22, RT	6	
	9+00	-	9+70	E. HIGHLAND DR. RT	50	
	SUBTOTAL				5,245	
0030						
	420+00	-	440+90	STH 22	55	CURB RAMP REPLACEMENT
	SUBTOTAL				55	
	TOTAL				5,300	

REMOVING CONCRETE BASES

STATION	OFFSET	LOCATION	204.0195 EACH
440+87	31	STH 22, LT	1
441+75	32	STH 22, RT	1
442+65	32	STH 22, LT	1
443+25	32	STH 22, RT	1
444+37	32	STH 22, LT	1
445+28	32	STH 22, RT	1
446+29	32	STH 22, LT	1
447+11	32	STH 22, RT	1
448+21	32	STH 22, LT	1
448+78	31	STH 22, RT	1
449+63	32	STH 22, LT	1
450+56	31	STH 22, RT	1
451+52	32	STH 22, LT	1
452+36	32	STH 22, RT	1
453+10	32	STH 22, LT	1
453+88	32	STH 22, RT	1
454+75	33	STH 22, LT	1
455+38	31	STH 22, RT	1
456+26	24	STH 22, LT	1
457+15	24	STH 22, RT	1
458+03	23	STH 22, LT	1
458+84	23	STH 22, RT	1
459+72	24	STH 22, LT	1
460+49	24	STH 22, RT	1
8+74	26	STH 22, RT	1
11+19	26	STH 22, RT	1
15+11	20	STH 22, LT	1
17+62	24	STH 22, LT	1
21+35	25	STH 22, RT	1
TOTAL			29

REMOVING INLETS

STATION	LOCATION	204.0220 EA
441+16	STH 22	1
441+30	STH 22	1
442+01	STH 22	1
444+46	STH 22	1
444+74	STH 22	1
446+33	STH 22	1
446+45	STH 22	1
448+83	STH 22	1
448+83	STH 22	1
451+72	STH 22	1
454+87	STH 22	1
451+71	STH 22	1
455+50	STH 22	1
455+51	STH 22	1
14+56	STH 22	1
14+57	STH 22	1
14+94	STH 22	1
21+00	STH 22	1
21+06	STH 22	1
30+70	STH 22	1
31+09	STH 22	1
31+85	STH 22	1
37+97	STH 22	1
38+38	STH 22	1
38+72	STH 22	1
41+17	STH 22	1
42+79	STH 22	1
48+07	STH 22	1
48+08	STH 22	1
48+53	STH 22	1
TOTAL		30

3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING MANHOLES

STATION	LOCATION	204.0210 EA
441+47	STH 22	1
444+48	STH 22	1
446+43	STH 22	1
448+55	STH 22	1
451+71	STH 22	1
455+25	STH 22	1
20+78	STH 22	1
31+10	STH 22	1
32+27	STH 22, RT	1
33+47	STH 22, LT	1
33+50	STH 22, RT	1
38+26	STH 22	1
40+96	STH 22	1
44+63	STH 22, LT	1
48+53	STH 22	1
49+74	STH 22	1
TOTAL		16

SEALING PIPES

STATION	LOCATION	204.0280 EA
20+72	STH 22, RT	1
10+48	CENTRAL AVENUE, LT	1
TOTAL		2

REMOVING STORM SEWER

STATION	TO	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 21-INCH LF	204.0245.09 30-INCH LF	204.0245.10 36-INCH LF
441+16 LT	-	441+51 LT	STH 22	-	-	-	-	35	-	-	-	-	-
441+30 RT	-	441+47 RT	STH 22	-	-	-	-	21	-	5	-	-	-
441+46 RT	-	441+47 RT	STH 22	-	-	-	-	-	-	-	-	-	25
441+47 RT	-	441+51 LT	STH 22	-	-	-	-	-	-	-	-	45	-
441+47 RT	-	444+48 RT	STH 22	-	-	-	-	-	-	-	301	-	-
441+51 LT	-	442+01 LT	STH 22	-	-	-	-	50	-	-	-	-	-
444+46 LT	-	444+48 RT	STH 22	-	-	9	-	30	-	-	-	-	-
444+48 RT	-	444+74 RT	STH 22	-	-	-	-	29	-	-	-	-	-
444+48 RT	-	446+43 RT	STH 22	-	-	-	-	-	-	196	-	-	-
446+33 LT	-	446+43 RT	STH 22	-	-	9	-	31	-	-	-	-	-
446+43 RT	-	446+45 RT	STH 22	9	-	-	-	14	-	-	-	-	-
446+43 RT	-	448+55 RT	STH 22	-	-	-	-	-	-	212	-	-	-
448+55 RT	-	448+83 LT	STH 22	9	-	-	-	40	-	-	-	-	-
448+55 RT	-	448+83 RT	STH 22	-	-	-	-	31	-	-	-	-	-
448+55 RT	-	451+71 RT	STH 22	-	-	-	-	-	317	-	-	-	-
451+71 LT	-	451+71 RT	STH 22	-	-	-	-	30	-	-	-	-	-
451+71 RT	-	451+72 RT	STH 22	-	-	-	-	14	-	-	-	-	-
451+71 RT	-	455+25 RT	STH 22	-	-	-	-	-	354	-	-	-	-
455+25 RT	-	455+50 RT	STH 22	-	-	-	-	28	-	-	-	-	-
455+25 RT	-	455+51 LT	STH 22	-	-	-	-	39	-	-	-	-	-
14+94 LT	-	14+56 LT	STH 22	-	-	-	-	34	-	-	-	-	-
14+56 LT	-	14+57 RT	STH 22	-	-	-	-	70	-	-	-	-	-
14+57 RT	-	14+83 RT	STH 22	-	-	-	-	25	-	-	-	-	-
21+00 LT	-	21+06 LT	STH 22	-	-	-	-	4	-	-	-	-	-
20+78 RT	-	21+00 LT	STH 22	-	-	-	-	-	49	-	-	-	-
20+72 RT	-	20+78 RT	STH 22	-	-	-	12	-	-	-	-	-	-
21+09 RT	-	21+74 RT	STH 22	-	-	-	-	73	-	-	-	-	-
30+70 RT	-	31+09 RT	STH 22	-	-	-	-	34	-	-	-	-	-
31+09 RT	-	31+10 RT	STH 22	-	-	-	-	14	-	-	-	-	-
31+10 RT	-	32+27 RT	STH 22	-	-	-	-	-	118	-	-	-	-
31+85 LT	-	32+27 LT	STH 22	-	-	-	-	40	-	-	-	-	-
32+27 RT	-	32+27 LT	STH 22	-	-	-	-	-	-	52	-	-	-
32+27 RT	-	33+50 RT	STH 22	-	-	-	-	-	123	-	-	-	-
33+47 LT	-	33+50 RT	STH 22	-	-	-	-	56	-	-	-	-	-
37+89 RT	-	37+98 RT	STH 22	-	15	-	-	-	-	-	-	-	-
37+92 RT	-	38+26 RT	STH 22	-	-	-	-	38	-	-	-	-	-
37+97 RT	-	38+26 RT	STH 22	-	-	-	29	-	-	-	-	-	-
38+26 RT	-	38+26 RT	STH 22	-	-	-	-	-	25	-	-	-	-
38+26 RT	-	38+38 RT	STH 22	-	5	-	17	-	-	-	-	-	-
38+38 RT	-	38+50 RT	STH 22	12	-	-	-	-	-	-	-	-	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING STORM SEWER (CONTINUED)

STATION	TO	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 21-INCH LF	204.0245.09 30-INCH LF	204.0245.10 36-INCH LF
38+26 RT	-	38+72 RT	STH 22	-	-	-	-	-	-	47	-	-	-
38+72 RT	-	38+72 RT	STH 22	-	-	-	12	-	-	-	-	-	-
38+72 RT	-	40+96 RT	STH 22	-	-	-	-	-	-	223	-	-	-
40+96 RT	-	40+96 RT	STH 22	-	-	-	-	-	12	-	-	-	-
40+96 RT	-	41+17 RT	STH 22	-	-	-	-	-	-	22	-	-	-
41+17 RT	-	42+79 RT	STH 22	-	-	-	-	-	-	-	163	-	-
42+79 RT	-	42+79 RT	STH 22	-	-	-	-	-	12	-	-	-	-
42+79 RT	-	44+46 RT	STH 22	-	-	-	-	-	-	-	166	-	-
44+56 LT	-	44+63 LT	STH 22	-	-	7	-	-	-	6	-	-	-
48+07 RT	-	48+53 RT	STH 22	-	-	-	-	42	-	-	-	-	-
48+07 LT	-	48+53 RT	STH 22	-	-	-	-	109	-	-	-	-	-
48+53 RT	-	48+53 RT	STH 22	-	-	-	-	39	-	-	-	-	-
48+53 RT	-	49+74 RT	STH 22	-	-	-	-	-	-	82	-	-	-
TOTALS				30	20	25	70	970	1,010	845	630	45	25

REMOVING RETAINING WALLS

STATION	LOCATION	204.9105.S.01 LS	204.9105.S.02 LS
443+25	STH 22, LT	1	-
19+50	STH 22, LT	-	1
	TOTAL	1	1

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	205.0501.S TON
0030						
	440+75	-	441+25	15'-33' LT	STH 22	50
	32+25	-	33+50	31' LT - 31' RT	STH 22	1,365
				TOTAL		1,415

REMOVING BOLLARD

STATION	LOCATION	204.9060.S.01 EA
456+25	STH 22, LT	3
	TOTAL	3

REMOVING ANCHOR

STATION	LOCATION	204.9060.S.02 EA
24+40	STH 22, RT	1
	TOTAL	1

BREAKER RUN AND GEOTEXTILE TYPE SR FABRIC

STATION	TO	STATION	LOCATION	311.0110 BREAKER RUN TON	645.0140 TYPE SAS SY
455+69	-	5+96	STH 22	2,067	-
5+96	-	8+68	STH 22	1,056	-
8+68	-	11+89	STH 22	1,228	-
11+89	-	15+15	STH 22	1,265	-
15+15	-	18+36	STH 22	1,030	-
18+36	-	25+75	STH 22	2,808	-
25+75	-	30+50	STH 22	1,446	-
30+50	-	34+01	STH 22	1,204	-
34+16	-	38+75	STH 22	1,617	-
38+75	-	41+75	STH 22	954	-
41+75	-	49+25	STH 22	3,150	-
49+25	-	51+04	SHOULDER	375	-
UNDISTRIBUTED/EBS			STH 22	1,800	5,000
TOTALS				20,000	5,000

BASE AGGREGATE DENSE AND WATER

STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	624.0100 WATER MGAL
440+91	-	448+19	STH 22	-	1,935	19
448+19	-	454+46	STH 22	-	1,475	15
454+46	-	5+96	STH 22	-	1,775	18
5+96	-	8+68	STH 22	-	369	4
8+68	-	11+89	STH 22	-	846	8
11+89	-	15+15	STH 22	-	898	9
15+15	-	18+36	STH 22	-	827	8
18+36	-	25+75	STH 22	-	1,894	19
25+75	-	30+50	STH 22	-	1,071	11
30+50	-	34+01	STH 22	-	972	10
34+16	-	38+75	STH 22	-	1,065	11
38+75	-	41+75	STH 22	-	666	7
41+75	-	49+25	STH 22	-	2,040	20
49+25	-	51+04	STH 22	50	417	5
ENTIRE PROJECT			REPLACING CABC DRIVEWAYS	50	-	1
ENTIRE PROJECT			DUST CONTROL	-	-	200
TOTALS				100	16,250	365

BACKFILL COARSE AGGREGATE SIZE NO 2

STATION	TO	STATION	LOCATION	209.0300.S CY	REMARKS
9+96	-	10+00	MAIN ST, LT	3	FOR UNDERDRAIN SUMP
TOTAL				3	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1) (item # 205.0100)		Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Comment:
			Cut	EBS Excavation (3)				Factor 1.50			
1.00	440+91 - 49+25	STH 22	27,929	0	0	27,929	959	1,439	26,491	26,491	
	10+50 - 10+75	CHERRY AVE	62	0	45	17	0	0	17	17	
	9+35 - 9+50	CENTRAL AVE (W)	35	0	25	10	0	0	10	10	
	10+50 - 10+65	CENTRAL AVE (E)	31	0	25	6	0	0	6	6	
	9+45 - 10+00	S. MAIN ST	243	0	20	223	1	2	222	222	
	10+50 - 10+55	FRANKLIN ST (N)	10	0	20	-10	0	0	-10	0	
	9+15 - 9+50	FRANKLIN ST (S)	98	0	23	75	1	1	74	74	
	10+50 - 10+55	WASHINGTON ST (N)	12	0	20	-8	0	0	-8	0	
	9+25 - 9+50	WASHINGTION ST (S)	72	0	22	50	0	0	50	50	
	10+50 - 10+60	ADAMS ST (N)	34	0	20	14	0	0	14	14	
	9+20 - 9+55	ADAMS ST (S)	108	0	22	86	0	0	86	86	
	10+50 - 10+70	JEFFERSON ST	38	0	22	16	0	0	16	16	
	7+30 - 8+49	S. CHESTNUT ST	365	0	41	324	0	0	324	324	
	10+75 - 10+85	COLUMBIA ST	19	0	14	5	0	0	5	5	
	10+50 - 11+00	PAUL ST	103	0	34	69	0	0	69	69	
	10+50 - 10+75	GROVE ST	59	0	22	37	0	0	37	37	
	9+05 - 9+50	MONROE ST	100	0	38	62	0	0	62	62	
	9+40 - 9+50	QUINCY ST	18	0	19	-1	0	0	-1	0	
	9+40 - 9+50	JACKSON ST (W)	22	0	20	2	0	0	2	2	
	10+50 - 10+65	JACKSON ST (E)	45	0	20	25	0	0	25	25	
	9+40 -9+50	VAN BUREN ST	19	0	20	-1	0	0	-1	0	
	9+00 - 9+50	E. HIGHLAND DR (W)	239	0	55	184	2	3	181	181	
	10+50 - 11+25	HIGHLAND DR (E)	299	0	55	244	2	3	241	241	
	UNDISTRIBUTED			1,040	0	0	0	0	0	0	
Division 1 Total			29,960	1,040	602	29,358	965	1,447	27,911	27,931	
			Total Common Exc	31,000							

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
3) EBS Excavation to be backfilled with Breaker Run as direct by Engineer in the field.
4) Unusable Pavement Material is approximated due to Sanitary Sewer and Watermain Replacement in 2014. Material is to be wasted offsite.
5) Available Material = Cut - Unusuable Pavement Material
13) Expanded Fill. Factor = 1.5 Expanded Fill = Unexpanded Fill * Fill Factor
14) The Mass Ordinate + or - Qty calculated for the section. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the section.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	SPV.0180.01 CONCRETE PAVEMENT SHES 8-INCH SY	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	REMARKS
0010												
	440+91	-	448+19	STH 22	-	3,515	-	-	-	3	32	
	443+61 RT			STH 22	-	-	1	-	-	-	-	
	444+25 LT			STH 22	-	-	-	-	48	-	-	
	445+46 LT			STH 22	-	-	1	-	-	-	-	
	445+62 RT			STH 22	-	-	-	-	38	-	-	
	446+16 LT			STH 22	-	-	-	-	48	-	-	
	447+00 LT			STH 22	-	-	-	-	36	-	-	
	448+19	-	454+46	STH 22	-	3,117	-	-	-	-	-	
	448+30	-	448+50	STH 22	-	-	1	-	-	-	-	
	454+46	-	5+96	STH 22	-	3,574	-	-	-	-	-	
	456+00 RT			STH 22	-	-	-	-	50	-	-	
	5+96	-	8+68	STH 22	-	1,492	-	-	-	-	-	
	8+68	-	11+89	STH 22	-	1,780	-	-	-	-	-	
	11+89	-	15+15	STH 22	-	1,780	-	-	-	-	-	
	15+15	-	18+36	STH 22	-	1,396	-	-	-	-	-	
	18+28 RT			STH 22	-	-	1	-	-	-	-	
	18+36	-	25+75	STH 22	-	3,922	-	-	-	-	-	
	25+75	-	30+50	STH 22	-	1,930	-	-	-	-	-	
	30+50	-	34+01	STH 22	-	1,646	-	-	-	-	-	
	34+16	-	38+75	STH 22	-	2,227	-	-	-	-	-	
	38+00	-	38+35	STH 22	-	-	-	-	130	-	-	
	38+75	-	41+75	STH 22	-	1,288	-	-	-	-	-	
	41+75	-	47+75	STH 22	-	2,608	-	-	-	-	-	
	44+07 RT			STH 22	-	-	1	-	-	-	-	
	47+75	-	49+25	STH 23	-	-	-	1,820	-	-	18	
	SUBTOTALS				0	30,275	5	1,820	350	3	50	
0020												
	ENTIRE PROJECT			STH 22	200	900	-	-	-	-	1,350	MAINLINE CROSSWALKS
	SUBTOTALS				200	900	0	0	0	0	1,350	
	TOTALS				200	31,175	5	1,820	350	3	1,400	

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE PAVEMENT REPAIR

CATEGORY	STATION	TO	STATION	LOCATION	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	416.1710 CONCRETE PAVEMENT REPAIR SY	601.0409 * CONCRETE CURB & GUTTER 30-INCH TYPE A LF	SPV.0090.13 CONCRETE JOINT AND CRACK CLEANING LF	COMMENT
0030										
	424+50	-	424+56	STH 22	15	68	25	-	-	PANEL REPLACEMENT
	428+75	-	428+81	STH 22, LT	9	34	13	-	-	PANEL REPLACEMENT
	430+85	-	430+91	STH 22, RT	9	34	13	-	-	PANEL REPLACEMENT
	432+10	-	432+16	STH 22, LT	9	34	13	-	-	PANEL REPLACEMENT
	432+36	-	432+42	STH 22, LT	9	34	13	-	-	PANEL REPLACEMENT
	436+75	-	436+81	STH 22, RT	9	34	13	-	-	PANEL REPLACEMENT
	437+33	-	437+39	STH 22, LT	9	38	13	-	-	PANEL REPLACEMENT
	437+75	-	437+21	STH 22, RT	9	44	16	-	-	PANEL REPLACEMENT
	438+03	-	438+09	STH 22, RT	9	44	16	-	-	PANEL REPLACEMENT
	438+45	-	438+51	STH 22	9	68	25	-	-	PANEL REPLACEMENT
	438+57	-	438+63	STH 22	9	24	11	-	-	PANEL REPLACEMENT
	420+00	-	440+91	STH 22	20	-	-	50	-	INLET ADJUSTMENTS
	UNDISTRIBUTED			STH 23	17	44	29	50	200	FIELD LOCATED BY ENGINEER
	TOTALS				142	500	200	100	200	

* QUANTITIES SHOWN ELSEWHERE

ASPHALTIC PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	455.0120 ASPHALTIC MATERIAL PG 64-28 (5.5%) TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	460.4000 HMA COLD WEATHER PAVING	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	COMMENT
0010										
	440+91	-	448+19	STH 22	1.2	5	22	22	38	
	448+19	-	454+46	STH 22	0.4	2	9	9	8	
	454+46	-	5+96	STH 22	1.8	7	34	34	12	
	5+96	-	8+68	STH 22	1.9	8	35	-	6	
	8+68	-	11+89	STH 22	1.5	6	27	-	4	
	11+89	-	15+15	STH 22	1.6	7	31	-	1	
	15+15	-	18+36	STH 22	1.1	4	20	-	2	
	18+36	-	25+75	STH 22	1.1	4	20	-	21	
	25+75	-	30+50	STH 22	2.2	9	40	-	3	
	30+50	-	34+01	STH 22	3.9	15	71	-	22	
	34+16	-	38+75	STH 22	2.3	9	42	-	2	
	38+75	-	41+75	STH 22	0.5	2	9	-	11	
	41+75	-	51+04	STH 22	10.5	33	190	190	30	
	SUBTOTALS				30	110	550	255	160	
0020										
	443+55	-	444+00	STH 22 RT	-	-	-	-	10	LANDSCAPING AREA
	SUBTOTALS				0	0	0	0	10	
	TOTALS				30	110	550	255	170	

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY
49+25	STH 22, RT	4
TOTAL		4

WALL MODULAR BLOCK GRAVITY

STATION	TO	STATION	LOCATION	532.0200.S SF
442+90	-	443+60	STH 22, LT	156
456+30	-	457+56	STH 22, RT	770
460+02	-	460+49	STH 22, RT	394
TOTAL				1,320

CONCRETE CURB PEDESTRIAN

CATEGORY	STATION	LOCATION	601.0600 LF
0030	437+25	STH 22, LT	15
TOTAL			15

CONCRETE STEPS

STATION	LOCATION	602.1500 SF
456+63	STH 22, RT	11
456+92	STH 22, LT	9
457+19	STH 22, RT	9
458+21	STH 22, RT	9
460+28	STH 22, RT	11
7+20	STH 22, LT	4
7+65	STH 22, LT	4
10+31	STH 22, RT	3
18+57	STH 22, LT	4
19+15	STH 22, LT	14
22+18	STH 22, RT	4
24+51	STH 22, RT	4
TOTAL		86

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE SIDEWALK AND DRIVEWAY

CATEGORY	STATION	TO	STATION	LOCATION	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH SF	602.0415 SIDEWALK 6-INCH SF	SPV.0165.01 SIDEWALK SHES 6-INCH SF	SPV.0180.02 DRIVEWAY SHES 6-INCH SY	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	COMMENT
0010											
	440+91	-	448+19	STH 22 LT	-	5,573	1,917	-	-	16	
	440+91	-	448+19	STH 22 RT	-	4,280	2135	-	-	16	
	444+25 LT			STH 22	-	-	-	255	-	-	
	445+62 RT			STH 22	-	-	-	250	-	-	
	446+16 LT			STH 22	-	-	-	265	-	-	
	447+00 LT			STH 22	-	-	-	230	-	-	
	448+19	-	454+46	STH 22 LT	-	5,000	656	-	-	16	
	448+19	-	454+46	STH 22 RT	-	4,406	647	-	-	16	
	454+46	-	5+96	STH 22 LT	112	3,615	633	-	-	24	
	454+46	-	5+96	STH 22 RT	86	4,266	820	-	-	48	
	456+00 RT			STH 22	-	-	-	165	15	-	
	5+96	-	8+68	STH 22 LT	6	1,190	223	-	-	16	
	5+96	-	8+68	STH 22 RT	25	1,350	368	-	-	16	
	8+68	-	11+89	STH 22 LT	6	1,526	203	-	-	16	
	8+68	-	11+89	STH 22 RT	5	1,411	230	-	-	16	
	11+89	-	15+15	STH 22 LT	-	1,580	140	-	-	16	
	11+89	-	15+15	STH 22 RT	70	1,515	394	-	-	16	
	15+15	-	18+36	STH 22 LT	116	1,121	345	-	-	16	
	15+15	-	18+36	STH 22 RT	150	1,110	549	-	-	-	
	18+36	-	25+75	STH 22 LT	14	3,557	74	-	-	8	
	18+36	-	25+75	STH 22 RT	145	2,645	949	-	-	40	
	25+75	-	30+50	STH 22 LT	12	2,240	137	-	-	-	
	25+75	-	30+50	STH 22 RT	98	1,780	463	-	-	8	
	30+50	-	34+01	STH 22 LT	50	950	636	-	-	32	
	30+50	-	34+01	STH 22 RT	5	1,390	210	-	-	32	
	34+16	-	38+75	STH 22 LT	-	1,605	300	-	-	56	
	34+16	-	38+75	STH 22 RT	9	1,820	294	-	-	40	
	38+75	-	41+75	STH 22 LT	20	935	331	-	-	16	
	38+75	-	41+75	STH 22 RT	12	1,355	144	-	-	-	
	41+75	-	49+25	STH 22 LT	33	2,995	446	-	-	8	
	41+75	-	49+25	STH 22 RT	36	3,335	206	-	-	8	
	SUBTOTALS				1,010	62,550	13,450	1,165	15	496	
0020											
	443+55	-	444+00	STH 22 RT	0	0	250	0	0	0	LANDSCAPING AREA
0030											
	431+15			STH 22 RT	-	-	40	-	-	8	CURB RAMP REPLACEMENT
	431+60			STH 22 RT	-	-	40	-	-	8	CURB RAMP REPLACEMENT
	434+30			STH 22 RT	-	-	40	-	-	8	CURB RAMP REPLACEMENT
	434+70			STH 22 RT	-	-	40	-	-	8	CURB RAMP REPLACEMENT
	437+25			STH 22 LT	-	-	180	-	-	8	CURB RAMP REPLACEMENT
	437+35			STH 22 RT	-	-	60	-	-	8	CURB RAMP REPLACEMENT
	438+00			STH 22 LT	-	-	40	-	-	8	CURB RAMP REPLACEMENT
	438+15			STH 22 RT	-	-	60	-	-	8	CURB RAMP REPLACEMENT
	SUBTOTALS				0	0	500	0	0	64	
	TOTALS				1,010	62,550	14,200	1,165	15	560	

NOTE: DRIVEWAY APRON WITHIN DOWNTOWN AREA TO BE PAID AS 6-INCH SIDEWALK.
CURB RAMPS TO BE PAID AS 6-INCH SIDEWALK

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

CONCRETE CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0409 * 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	601.0555 6-INCH SLOPED 36-INCH TYPE A LF	SPV.0090.01 30-INCH SHES TYPE A LF	SPV.0090.07 30-INCH HES TYPE A LF	SPV.0090.08 30-INCH HES TYPE D LF	SPV.0090.09 24-INCH TYPE D LF	REMARKS
0010													
	440+91	-	448+19	STH 22	-	1219	48	251	80	-	-	-	
	448+19	-	454+46	STH 22	-	1220	20	-	-	-	-	-	
	454+46	-	5+96	STH 22	-	1101	87	279	20	-	-	-	
	5+96	-	8+68	STH 22	-	549	86	-	-	-	-	-	
	8+68	-	11+89	STH 22	-	644	67	-	-	-	-	-	
	11+89	-	15+15	STH 22	-	656	77	-	-	-	-	-	
	15+15	-	18+36	STH 22	-	637	45	-	30	-	-	-	
	18+36	-	25+75	STH 22	-	1547	50	-	-	-	-	-	
	25+75	-	30+50	STH 22	-	960	100	-	-	-	-	-	
	30+50	-	34+01	STH 22	-	723	90	-	-	-	-	-	
	34+16	-	38+75	STH 22	-	938	60	-	-	-	-	-	
	38+75	-	41+75	STH 22	-	605	20	-	-	-	-	-	
	41+75	-	47+75	STH 22	-	1276	-	-	25	-	-	-	
		43+21		STH 22, RT	-	-	-	-	-	-	-	15	CE
	43+95	-	44+20	STH 22, RT	-	-	-	-	-	-	-	30	CE
	46+45	-	46+95	STH 22, LT	40	-	-	-	-	-	-	-	CE - MATCH SHAPE
	47+75	-	49+25	STH 22	-	-	-	-	-	430	40	-	
	SUBTOTALS				40	12,075	750	530	155	430	40	45	
0020													
	443+55	-	444+00	STH 22 RT	80	-	-	-	-	-	-	-	LANDSCAPING AREA
	SUBTOTALS				80	0	0	0	0	0	0	0	
	TOTALS				120	12,075	750	530	155	430	40	45	

* QUANTITIES SHOWN ELSEWHERE

RIPRAP & GEOTEXTILE FABRIC

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
46+08	STH 22, RT	3	4
50+42	STH 22, RT	3	4
TOTAL		6	8

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE

FROM	TO	LOCATION	608.0312 REINFORCED CONCRETE 12-INCH CLASS III LF	608.0315 REINFORCED CONCRETE 15-INCH CLASS III LF	608.0318 REINFORCED CONCRETE 18-INCH CLASS III LF	608.0324 REINFORCED CONCRETE 24-INCH CLASS III LF	608.0330 REINFORCED CONCRETE 30-INCH CLASS III LF	608.0336 REINFORCED CONCRETE 36-INCH CLASS III LF	SPV.0090.02 STORM SEWER PVC PIPE 6-INCH LF	SPV.0090.03 STORM SEWER PVC PIPE 8-INCH LF	SPV.0090.04 STORM SEWER PVC PIPE 12-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EA	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EA	520.8000 CONCRETE COLLARS FOR PIPE EA	611.9800.S PIPE GRATES EA	JOINT TIES * EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
1A	1	CHERRY AVE.	25	-	-	-	-	-	-	-	-	-	-	-	-	-	730.34	730.09	0.0110
1B	1	CHERRY AVE.	72	-	-	-	-	-	-	-	-	-	-	-	-	-	731.00	730.28	0.0100
1C	1A	CHERRY AVE.	33	-	-	-	-	-	-	-	-	-	-	-	-	-	730.67	730.34	0.0100
1D	1	CHERRY AVE.	-	-	-	-	15	-	-	-	-	-	-	1	-	-	722.90	722.77	0.0087
1	2	CHERRY AVE.	-	-	-	-	31	-	-	-	-	-	-	-	-	-	722.77	722.50	0.0087
2A	2	STH 22	31	-	-	-	-	-	-	-	-	-	-	-	-	-	730.20	729.97	0.0074
2C	2	STH 22	-	-	5	-	-	-	-	-	-	-	-	1	-	-	-	730.16	-
2	2B	STH 22	-	-	-	-	-	21	-	-	-	-	-	1	-	-	722.50	722.40	0.0048
3	2	STH 22	-	-	-	299	-	-	-	-	-	-	-	-	-	-	731.30	729.50	0.0060
3A	3	STH 22	38	-	-	-	-	-	-	-	-	-	-	-	-	-	732.70	732.31	0.0103
3B	3	STH 22	8	-	-	-	-	-	-	-	-	-	-	-	-	-	732.70	732.62	0.0100
3C	3A	STH 22	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	735.96	-
4	3	STH 22	-	-	-	199	-	-	-	-	-	-	-	-	-	-	732.50	731.30	0.0060
4A	4	STH 22	40	-	-	-	-	-	-	-	-	-	-	-	-	-	733.91	733.51	0.0100
4B	4	STH 22	8	-	-	-	-	-	-	-	-	-	-	-	-	-	733.89	733.82	0.0087
4C	4A	STH 22	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	736.63	-
4D	4B	STH 22	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	737.91	-
5	4	STH 22	-	-	-	238	-	-	-	-	-	-	-	-	-	-	734.80	732.50	0.0097
5A	5	STH 22	38	-	-	-	-	-	-	-	-	-	-	-	-	-	736.20	735.81	0.0103
5B	5	STH 22	8	-	-	-	-	-	-	-	-	-	-	-	-	-	736.20	736.12	0.0100
5C	5A	STH 22	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	739.95	-
6	5	STH 22	-	-	-	289	-	-	-	-	-	-	-	-	-	-	736.50	734.80	0.0059
6A	6	STH 22	38	-	-	-	-	-	-	-	-	-	-	-	-	-	737.88	737.49	0.0103
6B	6	STH 22	8	-	-	-	-	-	-	-	-	-	-	-	-	-	737.88	737.80	0.0100
7	6	STH 22	-	-	-	321	-	-	-	-	-	-	-	-	-	-	738.39	736.50	0.0059
7A	7B	STH 22	46	-	-	-	-	-	-	-	-	-	-	-	-	-	740.59	740.11	0.0100
7B	7	STH 22	80	-	-	-	-	-	-	-	-	-	-	-	-	-	740.11	739.31	0.0100
7C	7D	STH 22	45	-	-	-	-	-	-	-	-	-	-	-	-	-	741.69	741.21	0.0107
7D	7B	STH 22	55	-	-	-	-	-	-	-	-	-	-	-	-	-	741.21	740.11	0.0200
8A	8B	S. FRANKLIN ST.	27	-	-	-	-	-	-	-	-	-	-	-	-	-	745.40	745.28	0.0044
8B	8C	STH 22	45	-	-	-	-	-	-	-	-	-	-	-	-	-	745.28	745.05	0.0050
8C	8	STH 22	78	-	-	-	-	-	-	-	-	-	-	-	-	-	745.05	744.47	0.0074
8	9	STH 22	-	-	-	244	-	-	-	-	-	-	-	-	-	-	742.67	738.50	0.0171
9A	9B	S. WASHINGTON ST.	26	-	-	-	-	-	-	-	-	-	-	-	-	-	739.83	739.70	0.0052
9B	9	STH 22	38	-	-	-	-	-	-	-	-	-	-	-	-	-	739.70	739.51	0.0050
9C	9	STH 22	8	-	-	-	-	-	-	-	-	-	-	-	-	-	739.80	739.72	0.0100
9	10	STH 22	-	-	-	322	-	-	-	-	-	-	-	-	-	-	738.50	733.38	0.0159
10A	10B	STH 22	62	-	-	-	-	-	-	-	-	-	-	-	-	-	735.11	734.49	0.0010
10B	10F	STH 22	70	-	-	-	-	-	-	-	-	-	-	-	-	-	734.49	733.79	0.0010
10C	10	STH 22	38	-	-	-	-	-	-	-	-	-	-	-	-	-	734.62	734.24	0.0010

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE (CONTINUED)

FROM	TO	LOCATION	608.0312 REINFORCED CONCRETE 12-INCH CLASS III LF	608.0315 REINFORCED CONCRETE 15-INCH CLASS III LF	608.0318 REINFORCED CONCRETE 18-INCH CLASS III LF	608.0324 REINFORCED CONCRETE 24-INCH CLASS III LF	608.0330 REINFORCED CONCRETE 30-INCH CLASS III LF	608.0336 REINFORCED CONCRETE 36-INCH CLASS III LF	SPV.0090.02 STORM SEWER PVC PIPE 6-INCH LF	SPV.0090.03 STORM SEWER PVC PIPE 8-INCH LF	SPV.0090.04 STORM SEWER PVC PIPE 12-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EA	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EA	520.8000 CONCRETE COLLARS FOR PIPE EA	611.9800.S PIPE GRATES EA	JOINT TIES * EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
10E	10D	STH 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	734.35	734.05	0.0100
10D	10	STH 22	10	-	-	-	-	-	-	-	-	-	-	-	-	-	734.05	733.95	0.0100
10	10F	STH 22	-	-	-	50	-	-	-	-	-	-	-	-	-	-	733.38	732.59	0.0158
11A	11B	STH 22	57	-	-	-	-	-	-	-	-	-	-	-	-	-	732.00	731.72	0.0049
11B	11	STH 22	18	-	-	-	-	-	-	-	-	-	-	-	-	-	731.72	731.54	0.0100
11C	11	STH 22	33	-	-	-	-	-	-	-	-	-	-	-	-	-	731.80	731.47	0.0100
11	12	STH 22	-	-	-	308	-	-	-	-	-	-	-	-	-	-	730.50	729.90	0.0019
12A	12B	STH 22	13	-	-	-	-	-	-	-	-	-	-	-	-	-	731.67	731.54	0.0100
12C	12B	STH 22	25	-	-	-	-	-	-	-	-	-	-	-	-	-	731.80	731.54	0.0104
12B	12	STH 22	63	-	-	-	-	-	-	-	-	-	-	-	-	-	731.29	730.65	0.0102
14	13	STH 22	-	-	-	399	-	-	-	-	-	-	-	-	-	-	735.00	730.05	0.0124
14A	14	STH 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	736.15	736.00	0.0050
14B	14C	PAUL STREET	34	-	-	-	-	-	-	-	-	-	-	-	-	-	736.60	736.43	0.0050
14C	14	PAUL STREET	42	-	-	-	-	-	-	-	-	-	-	-	-	-	736.43	736.00	0.0102
15A	15	STH 22	25	-	-	-	-	-	-	-	-	-	-	-	-	-	737.00	736.87	0.0052
15B	15C	GROVE STREET	37	-	-	-	-	-	-	-	-	-	-	-	-	-	737.50	737.32	0.0049
15C	15D	GROVE STREET	32	-	-	-	-	-	-	-	-	-	-	-	-	-	737.32	737.00	0.0100
15D	15	STH 22	13	-	-	-	-	-	-	-	-	-	-	-	-	-	737.00	736.87	0.0100
15	16	STH 22	-	-	177	-	-	-	-	-	-	-	-	-	-	-	735.90	733.00	0.0164
16A	16B	MONROE STREET	61	-	-	-	-	-	-	-	-	-	-	-	-	-	736.30	736.00	0.0049
16B	16	STH 22	28	-	-	-	-	-	-	-	-	-	-	-	-	-	736.00	735.71	0.0104
16C	16	STH 22	33	-	-	-	-	-	-	-	-	-	-	-	-	-	736.20	735.87	0.0100
16	16D	MONROE STREET	-	-	40	-	-	-	-	-	-	-	-	1	-	-	731.20	731.03	0.0043
17E	17A	STH 22	37	-	-	-	-	-	-	-	-	-	-	-	-	-	730.70	730.50	0.0054
17A	17	STH 22	85	-	-	-	-	-	-	-	-	-	-	-	-	-	730.50	730.14	0.0042
17C	17B	STH 22	5	-	-	-	-	-	-	-	-	-	-	1	-	-	729.61	729.56	0.0100
17B	17	STH 22	29	-	-	-	-	-	-	-	-	-	-	-	-	-	729.56	729.26	0.0103
17C	17B	STH 22	5	-	-	-	-	-	-	-	-	-	-	-	-	-	729.61	729.56	0.0100
17D	17	STH 22	-	24	-	-	-	-	-	-	-	-	-	1	-	-	730.28	730.08	0.0083
17F	17	STH 22	18	-	-	-	-	-	-	-	-	-	-	-	-	-	730.23	730.14	0.0050
17G	17F	STH 22	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	732.66	-
17H	17F	STH 22	-	-	-	-	-	-	7	-	-	-	-	1	-	-	-	731.34	-
17I	17B	STH 22	-	-	-	-	-	-	17	-	-	-	-	1	-	-	731.34	-	-
17	18	STH 22	-	-	-	47	-	-	-	-	-	-	-	-	-	-	728.26	728.17	0.0019
18A	18	STH 22	26	-	-	-	-	-	-	-	-	-	-	-	-	-	729.50	729.24	0.0100
18B	18	STH 22	12	-	-	-	-	-	-	-	-	-	-	1	-	-	-	728.81	-
18	19	STH 22	-	-	-	223	-	-	-	-	-	-	-	-	-	-	728.17	727.29	0.0039
19A	19B	STH 22	37	-	-	-	-	-	-	-	-	-	-	-	-	-	728.50	728.32	0.0049
19B	19	STH 22	21	-	-	-	-	-	-	-	-	-	-	-	-	-	728.32	728.11	0.0100
19C	19	STH 22	12	-	-	-	-	-	-	-	-	-	-	1	-	-	728.16	728.08	0.0067

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

STORM SEWER PIPE (CONTINUED)

FROM	TO	LOCATION	608.0312 REINFORCED CONCRETE 12-INCH CLASS III LF	608.0315 REINFORCED CONCRETE 15-INCH CLASS III LF	608.0318 REINFORCED CONCRETE 18-INCH CLASS III LF	608.0324 REINFORCED CONCRETE 24-INCH CLASS III LF	608.0330 REINFORCED CONCRETE 30-INCH CLASS III LF	608.0336 REINFORCED CONCRETE 36-INCH CLASS III LF	SPV.0090.02 STORM SEWER PVC PIPE 6-INCH LF	SPV.0090.03 STORM SEWER PVC PIPE 8-INCH LF	SPV.0090.04 STORM SEWER PVC PIPE 12-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EA	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EA	520.8000 CONCRETE COLLARS FOR PIPE EA	611.9800.S PIPE GRATES EA	JOINT TIES * EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
19	20	STH 22	-	-	-	183	-	-	-	-	-	-	-	-	-	-	727.29	726.57	0.0039
20A	20	STH 22	-	14	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20	21	STH 22	-	-	-	184	-	-	-	-	-	-	-	-	-	-	726.57	725.65	0.0050
21A	21B	STH 22	-	-	-	40	-	-	-	-	-	-	-	-	-	-	725.78	725.70	0.0020
21B	21	STH 22	-	-	-	15	-	-	-	-	-	-	-	-	-	-	725.70	725.65	0.0033
21	22	STH 22	-	-	-	140	-	-	-	-	-	-	1	-	1	6	725.65	725.30	0.0025
23G	23A	E. HIGHLAND DRIVE	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	724.78	-
23A	23B	E. HIGHLAND DRIVE	61	-	-	-	-	-	-	-	-	-	-	-	-	-	724.10	723.79	0.0051
23B	23	E. HIGHLAND DRIVE	110	-	-	-	-	-	-	-	-	-	-	-	-	-	723.79	723.20	0.0054
23F	23C	STH 22	48	-	-	-	-	-	-	-	-	-	-	-	-	-	725.05	724.80	0.0052
23C	23	STH 22	88	-	-	-	-	-	-	-	-	-	-	-	-	-	724.80	723.92	0.0100
23D	23E	E. HIGHLAND DRIVE	42	-	-	-	-	-	-	-	-	-	-	-	-	-	724.40	724.10	0.0071
23E	23	E. HIGHLAND DRIVE	41	-	-	-	-	-	-	-	-	-	-	-	-	-	724.10	723.69	0.0100
23	24	STH 22	-	-	-	179	-	-	-	-	-	-	1	-	1	6	723.20	722.85	0.0020
25	21A	STH 22	-	-	-	11	-	-	-	-	-	-	-	-	-	-	725.80	725.78	0.0018
25A	25	STH 22	-	-	6	-	-	-	-	-	-	-	-	1	-	-	-	725.65	-
25B	25	STH 22	-	-	-	-	-	-	-	6	-	-	-	1	-	-	-	725.84	-
26	25	STH 22	-	-	43	-	-	-	-	-	-	-	-	-	-	-	725.89	725.80	0.0021
26A	26	STH 22	-	-	9	-	-	-	-	-	-	1	-	-	-	-	725.91	725.89	0.0022
		TOTALS	2,226	38	280	3,691	46	21	57	26	21	1	2	13	2	12			

NOTES:

* FOR INFORMATION ONLY: JOINT TIES ARE REQUIRED FOR ENDWALLS. TIE LAST THREE PIPE JOINTS (TWO TIES PER JOINT-6 TIES MINIMUM PER ENDWALL).
-JOINT TIES ARE NON-PAY ITEMS.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER STRUCTURES AND COVERS

STRUCTURE NO.	STATION	OFFSET	LOCATION	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1230 CATCH BASIN 2X3-FT EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	SPV.0060.02 INLET COVERS TYPE BH EACH	SPV.0060.02 INLET COVERS TYPE BH EACH	GRATE ELEV.	OUTLET INVERT ELEV.	STRUCTURE DEPTH FT.
1	10+23	6.0' LT	CHERRY AVENUE	1	-	-	-	-	-	-	1	-	-	-	-	736.23	722.77	12.12
1A	10+46	17.5' LT	CHERRY AVENUE	-	-	1	-	-	1	-	-	-	-	-	-	735.87	730.34	4.63
1B	442+27	24.0' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	736.71	731.00	4.71
1C	10+42	17.5' RT	CHERRY AVENUE	-	1	-	-	-	1	-	-	-	-	-	-	736.05	730.67	4.47
2	441+47	8.0' RT	STH 22	1	-	-	-	-	-	-	-	1	-	-	-	736.34	722.50	12.59
2A	441+20	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	735.78	730.20	4.63
3	444+46	15.5' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	738.39	731.30	5.84
3A	444+46	24.0' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	738.22	732.70	4.48
3B	444+46	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	738.27	732.70	4.57
4	446+45	15.5' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	739.75	732.50	6.00
4A	446+33	24.0' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	739.59	733.91	4.68
4B	446+45	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	739.53	733.89	4.63
5	448+83	15.5' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	741.56	734.80	4.35
5A	448+82	24.0' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	741.41	736.20	4.23
5B	448+83	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	741.43	736.20	3.86
6	451+72	15.5' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	743.42	736.50	5.67
6A	451+71	24.0' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	743.13	737.88	4.25
6B	451+72	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	743.30	737.88	4.42
7	454+93	10.0' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	745.09	738.39	5.45
7A	455+77	24.0' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	745.22	740.59	3.63
7B	455+73	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	745.59	740.11	4.48
7C	456+27	24.0' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	746.73	741.69	4.04
7D	456+27	24.0' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	746.73	741.21	4.52
8	8+75	19.0' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	748.57	742.67	4.65
8A	10+36	18.7' LT	S. FRANKLIN STREET	-	-	1	-	-	1	-	-	-	-	-	-	748.80	745.40	2.40
8B	7+97	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	749.22	745.28	2.94
8C	7+97	27.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	749.07	745.05	3.02
9	11+19	19.0' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	743.84	738.50	4.09
9A	10+36	19.0' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	742.91	739.83	2.08
9B	11+19	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	743.97	739.70	3.27
9C	11+19	27.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	743.66	739.80	2.86
10	14+40	19.0' RT	STH 22	1	-	-	-	-	-	-	1	-	-	-	-	739.38	733.38	4.75
10A	10+41	18.7' LT	ADAMS STREET	-	-	1	-	-	1	-	-	-	-	-	-	738.90	735.11	2.79
10B	15+15	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	738.70	734.49	3.21
10C	14+34	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	739.47	734.62	3.85
10D	14+34	27.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	739.32	734.05	4.27
10E	9+56	19.0' LT	ADAMS STREET	-	-	1	-	-	1	-	-	-	-	-	-	738.63	734.35	3.42
11	18+15	6.0' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	736.55	730.50	4.80
11A	17+59	19.5' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	736.59	732.00	3.59
11B	18+03	19.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	736.37	731.72	3.65

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER STRUCTURES AND COVERS (CONTINUED)

STRUCTURE NO.	STATION	OFFSET	LOCATION	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1230 CATCH BASIN 2X3-FT EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	SPV.0060.01 INLET COVERS TYPE BH EACH	SPV.0060.02 INLET COVERS TYPE H-D EACH	GRATE ELEV.	OUTLET INVERT ELEV.	STRUCTURE DEPTH FT.
11C	18+38	19.5' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	736.21	731.80	3.41
12A	20+94	19.5' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	735.44	731.67	2.77
12B	21+08	19.5' LT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	735.47	731.54	2.93
12C	21+31	31.0' LT	STH 22	-	-	-	1	-	-	-	-	-	-	1	-	735.84	731.80	2.79
14	25+64	11.0' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	740.94	735.00	4.03
14A	25+64	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	740.82	736.15	3.01
14B	10+41	18.0' LT	PAUL STREET	-	-	1	-	-	1	-	-	-	-	-	-	741.07	736.60	3.04
14C	10+41	18.0' RT	PAUL STREET	-	-	1	-	-	1	-	-	-	-	-	-	741.27	736.43	3.39
15	30+50	6.0' RT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	741.43	735.90	4.31
15A	30+50	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	741.21	737.00	3.24
15B	10+35	20' LT	GROVE STREET	-	-	1	-	-	1	-	-	-	-	-	-	740.79	737.50	2.31
15C	10+37	19' RT	GROVE STREET	-	1	-	-	-	1	-	-	-	-	-	-	740.82	737.32	2.50
15D	30+46	19.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	741.23	737.00	3.25
16	32+27	6.0' RT	STH 22	1	-	-	-	-	-	-	1	-	-	-	-	740.92	731.20	8.47
16A	9+58	20.2' RT	MONROE STREET	-	-	1	-	-	1	-	-	-	-	-	-	740.30	736.30	3.00
16B	32+01	19.5' RT	STH 22	-	-	1	-	-	1	-	-	-	-	-	-	740.62	736.00	3.62
16C	32+50	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	740.72	736.20	3.52
17	38+26	36' RT	STH 22	1	-	-	-	-	-	-	-	-	1	-	-	734.78	728.26	4.99
17A	37+80	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	735.40	730.50	3.90
17B	10+35	22.1' RT	JACKSON STREET	-	-	1	-	-	1	-	-	-	-	-	-	734.50	729.56	3.94
17E	37+80	19.5' RT	JACKSON STREET	-	1	-	-	-	1	-	-	-	-	-	-	735.40	730.70	3.70
17F	10+51	21.0' LT	JACKSON STREET	-	1	-	-	-	1	-	-	-	-	-	-	734.99	730.23	3.76
18	38+72	39.0' RT	STH 22	-	-	-	-	1	-	-	-	-	-	1	-	734.53	728.17	5.11
18A	38+56	20.2' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	734.04	729.50	3.54
19	40+96	38' RT	STH 22	-	-	-	-	1	-	-	-	-	-	1	-	731.96	727.29	3.42
19A	40+88	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	732.51	728.50	3.01
19B	40+88	19.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	732.51	728.32	3.19
20	42+79	37' RT	STH 22	-	-	-	1	-	-	-	-	-	-	1	-	729.80	726.57	1.98
21	44+63	37' RT	STH 22	-	-	-	1	-	-	-	-	-	-	1	-	729.36	725.65	2.46
21A	44+63	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	730.64	725.78	3.86
21B	44+63	22.9' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	730.20	725.70	3.50
23	48+53	31' RT	STH 22	1	-	-	-	-	-	-	1	-	-	-	-	728.49	723.20	4.04
23A	9+34	31' RT	E. HIGHLAND DRIVE	-	-	1	-	-	1	-	-	-	-	-	-	728.14	724.10	3.04
23B	9+22	31' LT	E. HIGHLAND DRIVE	-	-	1	-	-	1	-	-	-	-	-	-	728.43	723.79	3.36
23C	47+65	30.5' RT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	728.81	724.80	3.01
23D	10+72	22.3' RT	E. HIGHLAND DRIVE	-	-	1	-	-	1	-	-	-	-	-	1	728.03	724.40	2.63
23E	10+72	22.2' LT	E. HIGHLAND DRIVE	-	-	1	-	-	1	-	-	-	-	-	-	728.08	724.10	2.98
23F	47+65	19.5' LT	STH 22	-	1	-	-	-	1	-	-	-	-	-	-	729.03	725.05	2.98
25	44+63	29' LT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	730.52	725.70	3.57
26	45+06	31' LT	STH 22	1	-	-	-	-	-	1	-	-	-	-	-	730.01	725.89	2.87
	TOTALS			18	36	21	3	2	57	12	4	1	1	5	1			

NOTES:
-OFFSET DISTANCE TO CENTER FOR MANHOLES, BACK OF CURB FOR INLETS, AND END OF ENDWALL.
-GRATE ELEVATION IS FIGURED TO EDGE OF PAVEMENT FOR INLETS, CENTER OF MANHOLE COVER, AND ENDWALL INVERT.
-FINAL LOCATION TO BE DETERMINED BY THE ENGINEER.
-STRUCTURE DEPTHS COMPUTED WITH A MINIMUM OF 6-INCHES ADJUSTMENT TO COVERS

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

ADJUSTING MANHOLE COVERS

STATION	OFFSET	LOCATION	611.8110 EACH
21+09	50.0' RT	STH 22	1
21+74	34.6' RT	STH 22	1
10+36	7.0' LT	CHERRY AVENUE	1
10+47	10.3' LT	CENTRAL AVENUE	1
9+55	6.9' RT	ADAMS STREET	1
TOTAL			5

ADJUSTING INLET COVERS

CATEGORY	STATION	OFFSET	LOCATION	611.8115 EACH
0010				
	20+72	35.5' RT	STH 22	1
	21+88	36.7' RT	STH 22	1
	7+82	16.7' RT	CHESTNUT STREET	1
	10+71	16.6' RT	COLUMBIA STREET	1
	10+71	16.8' LT	COLUMBIA STREET	1
	SUBTOTAL			5
0030				
	424+51	20' RT	STH 22	1
	434+83	20' RT	STH 22	1
	437+60	79' LT	STH 22	1
	438+67	20' LT	STH 22	1
	439+00	20' RT	STH 22	1
	SUBTOTAL			5
TOTAL				10

FENCE SAFETY

STATION	TO	STATION	LOCATION	616.0700.S FENCE SAFETY LF	SPV.0090.05 TEMPORARY PEDESTRIAN LF
440+91	-	454+75	STH 22	2,700	2,700
442+00	-	443+70	STH 22, LT	170	-
UNDISTRIBUTED				1,130	300
TOTALS				4,000	3,000

PIPE UNDERDRAIN

STATION	TO	STATION	LOCATION	612.0206 UNPERFORATED 6-INCH LF	612.0406 WRAPPED 6-INCH LF
442+27	-	442+90	STH 22, LT	73	-
442+90	-	443+61	STH 22, LT	-	72
456+27	-	456+30	STH 22, RT	12	-
456+30	-	457+56	STH 22, RT	-	127
460+02	-	460+53	STH 22, RT	-	61
10+32CY	-	10+52CY	CHERRY AVENUE, RT	-	20
10+36CY	-	10+56CY	CHERRY AVENUE, LT	-	20
10+26FK	-	10+46FK	S. FRANKLIN STREET, LT	-	20
10+26WA	-	10+46WA	S. WASHINGTON STREET, LT	-	20
10+31AD	-	10+51AD	ADAMS STREET, LT	-	20
20+84	-	20+94	STH 22, LT	-	10
20+96		21+08	STH 22, LT	-	10
21+08	-	21+18	STH 22, LT	-	10
31+91	-	32+11	STH 22, RT	-	20
9+48MR	-	9+68MR	MONROE STREET	-	20
9+12EH	-	9+32EH	E. HIGHLAND DRIVE, LT	-	20
9+24EH	-	9+44EH	E. HIGHLAND DRIVE, RT	-	20
10+62EH	-	10+82EH	E. HIGHLAND DRIVE, LT	-	20
10+62EH	-	10+82EH	E. HIGHLAND DRIVE, RT	-	20
TOTALS				85	510

INSULATION BOARD POLYSTYRENE

CAT	STATION	LOCATION	612.0902.S 2-INCH SY
0030			
	441+80	STH 22, LT	2
	455+18	STH 22, RT	2
	455+75	STH 22, LT	2
	456+27	STH 22, LT	2
	7+97	STH 22, LT	2
	8+24	STH 22, RT	2
	11+44	STH 22, RT	2
	14+36	STH 22, LT	2
	14+88	STH 22, RT	2
	15+09	STH 22, LT	2
	21+09	STH 22, RT	2
	30+80	STH 22, RT	2
	31+95	STH 22, RT	2
	32+45	STH 22, LT	2
	37+60	STH 22, LT	2
	37+69	STH 22, LT	2
	38+08	STH 22, RT	2
	10+40	PAUL STREET, LT	2
	9+34	E. HIGHLAND DRIVE, RT	2
	9+49	E. HIGHLAND DRIVE, LT	2
		UNDISTRIBUTED	20
	TOTAL		60

DUST CONTROL SURFACE TREATMENT

LOCATION	623.0200 S.Y.
UNDISTRIBUTED	50,000
TOTAL	50,000

TRACKING PADS

LOCATION	628.7560 EACH
UNDISTRIBUTED	6
TOTAL	6

ROCK BAGS

STATION	LOCATION	628.7570 EACH
45+00	STH 22, RT	15
45+10	STH 22, LT	15
45+50	STH 22, RT	15
46+30	STH 22, RT	10
50+80	STH 22, RT	15
	UNDISTRIBUTED	10
TOTAL		50

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 QUANTITY LF	628.1520 MAINTENANCE LF
25+00	-	30+25	STH 22, LT	525	1,050
34+25	-	36+00	STH 22, RT	175	350
44+20	-	47+40	STH 22, RT	320	640
48+75	-	50+75	STH 22	250	500
			UNDISTRIBUTED	230	460
TOTALS				1,500	3,000

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TOPSOIL, FERTILIZER, SEED AND MULCH

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER, TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
0010											
	440+91	-	448+19	STH 22 LT	60	-	0.03	-	1	-	1
	440+91	-	448+19	STH 22 RT	60	-	0.03	-	1	-	1
	448+19	-	454+46	STH 22 LT	35	-	0.02	-	1	-	1
	448+19	-	454+46	STH 22 RT	40	-	0.02	-	1	-	1
	454+46	-	5+96	STH 22 LT	290	-	0.20	-	5	-	7
	454+46	-	5+96	STH 22 RT	620	-	0.40	-	11	-	14
	5+96	-	8+68	STH 22 LT	245	-	0.20	-	4	-	5
	5+96	-	8+68	STH 22 RT	190	-	0.10	-	3	-	4
	8+68	-	11+89	STH 22 LT	265	-	0.20	-	5	-	6
	8+68	-	11+89	STH 22 RT	290	-	0.20	-	5	-	7
	11+89	-	15+15	STH 22 LT	330	-	0.20	-	6	-	7
	11+89	-	15+15	STH 22 RT	225	-	0.10	-	4	-	5
	15+15	-	18+36	STH 22 LT	270	-	0.20	-	5	-	6
	15+15	-	18+36	STH 22 RT	170	-	0.10	-	3	-	4
	18+36	-	25+75	STH 22 LT	530	-	0.30	-	10	-	12
	18+36	-	25+75	STH 22 RT	695	-	0.40	-	13	-	16
	25+75	-	30+50	STH 22 LT	700	-	0.40	-	13	-	16
	25+75	-	30+50	STH 22 RT	325	-	0.20	-	6	-	7
	30+50	-	34+01	STH 22 LT	170	-	0.10	-	3	-	4
	30+50	-	34+01	STH 22 RT	235	-	0.20	-	4	-	5
	34+16	-	38+75	STH 22 LT	345	-	0.20	-	6	-	8
	34+16	-	38+75	STH 22 RT	545	-	0.40	-	10	-	12
	38+75	-	41+75	STH 22 LT	210	-	0.10	-	4	-	5
	38+75	-	41+75	STH 22 RT	700	-	0.40	-	13	-	16
	41+75	-	50+00	STH 22 LT	760	-	0.50	-	14	-	17
	41+75	-	50+50	STH 22 RT	2,050	-	1.30	-	37	-	46
	WASTE SITE					2,500	1.60	15	-	20	-
				UNDISTRIBUTED	1,145	-	0.80	-	42	30	27
	SUBTOTALS				11,500	2,500	8.90	15	230	50	260
0030											
	420+00	-	440+91	UNDISTRIBUTED	50	-	0.10	-	5	-	-
	SUBTOTALS				50	0	0.10	0	5	0	0
	TOTALS				11,550	2,500	9	15	235	50	260

NOTE: CONTRACTOR WILL APPLY WATER FOR SEEDED AREAS 1-INCH PER WEEK (4 WEEKS)

EROSION MAT

CATEGORY	STATION	TO	STATION	LOCATION	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2004 EROSION MAT CLASS I TYPE B SY
0010						
	440+91	-	448+19	STH 22 LT	60	-
	440+91	-	448+19	STH 22 RT	60	-
	448+19	-	454+46	STH 22 LT	35	-
	448+19	-	454+46	STH 22 RT	40	-
	454+46	-	5+96	STH 22 LT	300	-
	454+46	-	5+96	STH 22 RT	655	-
	5+96	-	8+68	STH 22 LT	255	-
	5+96	-	8+68	STH 22 RT	240	-
	8+68	-	11+89	STH 22 LT	265	-
	8+68	-	11+89	STH 22 RT	290	-
	11+89	-	15+15	STH 22 LT	330	-
	11+89	-	15+15	STH 22 RT	225	-
	15+15	-	18+36	STH 22 LT	270	-
	15+15	-	18+36	STH 22 RT	170	-
	18+36	-	25+75	STH 22 LT	530	-
	18+36	-	25+75	STH 22 RT	700	-
	25+75	-	30+50	STH 22 LT	405	-
	25+75	-	30+50	STH 22 RT	325	-
	30+50	-	34+01	STH 22 LT	170	-
	30+50	-	34+01	STH 22 RT	235	-
	34+16	-	38+75	STH 22 LT	345	-
	34+16	-	38+75	STH 22 RT	685	-
	38+75	-	41+75	STH 22 LT	210	-
	38+75	-	41+75	STH 22 RT	480	220
	41+75	-	50+00	STH 22 LT	760	-
	41+75	-	51+00	STH 22 RT	1,600	450
	UNDISTRIBUTED				2,310	130
	SUBTOTALS				11,950	800
0030						
	420+00	-	440+91	UNDISTRIBUTED	50	-
	SUBTOTALS				50	0
	TOTALS				12,000	800

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

INLET PROTECTION

STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
1A	10+46	CHERRY AVE.	1	-	1	-
1B	442+27	STH 22	1	-	1	-
1C	10+42	CHERRY AVE.	1	-	1	-
2A	441+30	STH 22	1	-	1	-
3A	444+46	STH 22	1	-	1	-
3B	444+46	STH 22	1	-	1	-
4A	446+33	STH 22	1	-	1	-
4B	446+33	STH 22	1	-	1	-
5A	448+82	STH 22	1	-	1	-
5B	448+83	STH 22	1	-	-	1
6A	451+71	STH 22	1	-	1	-
6B	451+71	STH 22	1	-	1	-
7A	455+77	STH 22	1	-	1	-
7B	455+73	STH 22	1	-	1	-
7C	456+28	STH 22	1	-	1	-
7D	456+28	STH 22	1	-	1	-
8A	10+36	S. FRANKLIN ST.	1	-	1	-
8B	7+97	STH 22	1	-	1	-
8C	7+97	STH 22	1	-	1	-
9A	10+36	STH 22	1	-	-	1
9B	11+19	STH 22	1	-	1	-
9C	11+19	STH 22	1	-	1	-
10A	10+41	ADAMS ST.	1	-	1	-
10B	15+15	STH 22	1	-	-	1
10C	14+34	STH 22	1	-	1	-
10D	14+34	STH 22	1	-	1	-
10E	9+56	ADAMS ST.	1	-	1	-
11A	17+59	STH 22	1	-	-	1
11B	18+03	STH 22	1	-	1	-
11C	18+38	STH 22	1	-	1	-
EXISTING	20+74	STH 22	1	-	-	1
12A	20+94	STH 22	1	-	-	1
12B	21+08	STH 22	1	-	-	1
12C	21+31	STH 22	1	1	-	-
EXISTING	7+82	CHESTNUT ST	1	-	1	-
EXISTING	10+71	COLUMBIA ST.	2	-	2	-
EXISTING	21+88	STH 22	1	-	1	-
14A	25+64	STH 22	1	-	1	-
14B	10+41	PAUL ST.	1	-	1	-
14C	10+41	PAUL ST.	1	-	1	-
15A	30+50	STH 22	1	-	1	-
15B	10+35	GROVE ST.	1	-	1	-
15C	10+37	GROVE ST.	1	-	1	-
15D	30+46	STH 22	1	-	1	-
16A	9+58	MONROE ST.	1	-	1	-

INLET PROTECTION (CONTINUED)

STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
16B	32+01	STH 22	1	-	-	1
16C	32+50	STH 22	1	-	1	-
17A	37+80	STH 22	1	-	1	-
17B	10+35	JACKSON ST.	1	-	1	-
17E	37+80	JACKSON ST.	1	-	1	-
17F	10+51	JACKSON ST.	1	-	1	-
18	38+72	STH 22	1	1	-	-
18A	38+56	STH 22	1	-	1	-
19	40+96	STH 22	1	1	-	-
19A	40+88	STH 22	1	-	1	-
19B	40+88	STH 22	1	-	1	-
20	42+79	STH 22	1	1	-	-
21	44+63	STH 22	1	1	-	-
21A	44+63	STH 22	1	-	1	-
21B	44+63	STH 22	1	-	1	-
23A	9+34	E. HIGHLAND DR.	1	-	1	-
23B	9+22	E. HIGHLAND DR.	1	-	-	1
23C	47+65	STH 22	1	-	1	-
23D	10+72	E. HIGHLAND DR.	1	-	-	1
23E	10+72	E. HIGHLAND DR.	1	-	-	1
23F	47+65	E. HIGHLAND DR.	1	-	-	1
	UNDISTRIBUTED		-	-	40	-
	TOTALS		67	5	90	12

NOTE: PLACE INLET PROTECTION TYPE C ON FIRST SET OF INLETS OUTSIDE PROJECT LIMITS

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

CAT 0010

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	STH 22, S. OF WILLIAM ST.	J1-1	24" X 39"	6.50	1	---	1	1	JCT CTH CC, SEE PLAN SHEET
2	STH 22, S. OF JOHN ST.	J4-1	24" X 36"	6.00	---	---	1	---	SOUTH STH 22, MOUNT ON LIGHT POLE
3	STH 22, AT CTH CC	J13-1	24" X 45"	7.50	---	1	1	1	CTH CC, SEE PLAN SHEET
4	"	J13-1	24" X 45"	7.50	---	1	1	1	STH 22, SEE PLAN SHEET
5	STH 22, N. OF CTH CC	J13-1	24" X 45"	7.50	---	1	1	1	CTH CC, SEE PLAN SHEET
6	STH 22, CHERRY AVE.	J4-1	24" X 36"	6.00	---	---	1	---	NORTH STH 22, MOUNT ON LIGHT POLE
7	STH 22, N. OF CHERRY AVE.	J1-1	24" X 39"	6.50	---	---	1	---	JCT CTH CC, SEE PLAN SHEET, MOUNT ON POWER POLE
8	"	M1-6	---	---	---	---	1	---	
9	STH 22, S. OF EAST CENTRAL AVE.	J2-1	24" X 57"	9.50	---	---	1	---	NORTH STH 22, SEE PLAN SHEET, MOUNT ON LIGHT POLE
10	"	J4-1	24" X 36"	6.00	---	---	---	---	SOUTH STH 22, MOUNT ON LIGHT POLE
11	STH 22 (MAIN ST.) AT STH 22 (UNION AVE.)	J3-1	24" X 57"	9.50	---	1	1	1	NORTH STH 22, SEE PLAN SHEET
12	"	J3-1	24" X 57"	9.50	---	1	1	---	SOUTH STH 22, SEE PLAN SHEET
13	STH 22 (UNION AVE.) AT STH 22 (MAIN ST.)	J3-1	24" X 57"	9.50	---	1	1	1	NORTH STH 22, SEE PLAN SHEET
14	STH 22, S. OF FRANKLIN ST.	J4-1	24" X 36"	6.00	1	---	1	1	NORTH STH 22
15	"	J2-1	24" X 57"	9.50	---	---	1	1	SOUTH STH 22, SEE PLAN SHEET
16	STH 22, N. OF JEFFERSON ST.	J3-1	24" X 57"	9.50	---	1	1	1	NORTH STH 22, SEE PLAN SHEET
17	STH 22, AT COLUMBIA ST.	M1-6	---	---	---	---	1	---	
18	"	M1-6	---	---	---	---	1	---	
19	STH 22, N. OF COLUMBIA ST.	J2-1	24" X 57"	9.50	---	1	---	---	SOUTH STH 22, SEE PLAN SHEET
20	STH 22, S. OF GROVE ST.	J2-1	24" X 57"	9.50	---	1	1	1	SOUTH STH 22, SEE PLAN SHEET
21	"	J4-1	24" X 36"	6.00	1	---	1	---	NORTH STH 22
22	STH 22, S. OF HIGHLAND DR.	J4-1	24" X 36"	6.00	1	---	1	1	SOUTH STH 22
	PROJECT TOTALS			**147.50**	**4**	**9**	**20**	**11**	

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

CAT 0030

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
500	N. OF CHERRY AVE.	S1-1	36" X 36"	---	6.75	---	---	1	1	1	
500A	"	S16-9P	24" X 8"	---	1.33	---	---	---	---	---	MOUNT BELOW SIGN #500
500B	"	R2-6P	24" X 18"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #500A
501	"	S5-2	24" X 30"	---	5.00	---	---	---	---	---	MOUNT ON LIGHT POLE
501A	CHERRY AVE.	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
502	"	R3-4	24" X 24"	4.00	---	---	---	---	1	---	MOUNT ON LIGHT POLE ABOVE J4-1 SIGN
503	N. OF CHERRY AVE.	R2-1	24" X 30"	5.00	---	---	---	---	1	---	25 MPH, MOUNT ON LIGHT POLE
503A	"	S5-2	24" X 30"	---	5.00	---	1	---	---	---	
504	"	R7-2D	18" X 24"	3.00	---	---	---	---	---	---	3:00 AM TO 5:00 AM, MOUNT ON LIGHT POLE
505	S. OF CALDWELL AVE.	S1-1	36" X 36"	---	6.75	---	---	---	1	---	MOUNT ON LIGHT POLE
505A	"	S16-9P	24" x 8"	---	1.33	---	---	---	---	---	MOUNT BELOW SIGN #505
506	"	R3-4	24" X 24"	4.00	---	---	---	---	1	---	MOUNT ON LIGHT POLE
507	"	R7-2L	18" X 24"	3.00	---	---	---	---	1	---	3:00 AM TO 5:OO AM, MOUNT ON LIGHT POLE BELOW SIGN #506
508	CALDWELL AVE.	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
509	"	R1-1	30" X 30"	5.18	---	---	1	---	1	---	
510	"	R3-4	24" X 24"	4.00	---	---	---	---	1	---	MOUNT ON LIGHT POLE
511	"	R7-2L	18" X 24"	3.00	---	---	---	---	1	---	3:00 AM TO 5:OO AM, MOUNT ON LIGHT POLE BELOW SIGN #510
512	S. OF CALDWELL AVE.	W14-3	---	---	---	---	---	---	1	---	
513	"	R7-2D	18" X 24"	3.00	---	---	---	---	1	---	3:00 AM TO 5:00 AM, MOUNT ON LIGHT POLE
514	N. OF E. CENTRAL AVE.	R2-1	24" X 30"	5.00	---	---	---	---	1	---	25 MPH, MOUNT ON LIGHT POLE
515	VACANT	---	---	---	---	---	---	---	---	---	
516	E. CENTRAL AVE.	R3-4	24" X 24"	4.00	---	---	---	---	1	---	MOUNT ON LIGHT POLE
517	"	R7-2L	18" X 24"	3.00	---	---	---	---	1	---	3:00 AM TO 5:OO AM, MOUNT ON LIGHT POLE BELOW SIGN #516
518	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
519	"	R6-2L	24" X 30"	5.00	---	---	1	---	1	1	
520	"	R6-2R	24" X 30"	5.00	---	---	1	---	1	1	
521	"	R3-4	24" X 24"	4.00	---	---	---	---	1	---	MOUNT ON LIGHT POLE
521A	"	R7-2L	18" X 24"	3.00	---	---	---	---	1	---	3:00 AM TO 5:OO AM, MOUNT ON LIGHT POLE BELOW SIGN #521
522	S. OF E. CENTRAL AVE.	D9-2	24" X 24"	4.00	---	---	1	---	1	1	HOSPITAL
522A	"	MB6-1	21" X 21"	3.06	---	---	---	---	1	---	MOUNT BELOW SIGN #522
523	N. OF S. MAIN ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
524	SEE MOVING SIGNS	---	---	---	---	---	---	---	---	---	
525	"	---	---	---	---	---	---	---	---	---	
526	S. MAIN ST.	D9-2	24" X 24"	4.00	---	---	---	---	1	---	HOSPITAL, MOUNT ON LIGHT POLE
526A	"	MB6-1	21" X 21"	3.06	---	---	---	---	1	---	MOUNT ON LIGHT POLE BELOW SIGN #526
527	"	D9-2	24" X 24"	4.00	---	---	1	---	1	1	HOSPITAL
528	"	MB6-1	21" X 21"	3.06	---	---	---	---	1	---	MOUNT ON LIGHT POLE BELOW SIGN #527
528A	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
529	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
530	"	W4-4AR	30" X 12"	---	2.50	---	---	---	1	---	MOUNT BELOW SIGN #529
531	"	W4-4B	30" X 12"	---	2.50	---	---	---	1	---	MOUNT ON BACK OF J4-1 SIGN
532	SEE MOVING SIGNS	---	---	---	---	---	---	---	---	---	
533	S. MAIN ST.	R1-1	30" X 30"	5.18	5.18	---	1	---	1	1	
533A	"	R1-10P	24" X 18"	3.00	---	---	---	---	1	---	MOUNT BELOW SIGN #533
534	E. OF S. MAIN ST.	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
535	"	R2-1	24" X 30"	5.00	---	---	---	---	1	---	25 MPH, MOUNT BELOW J4-1 SIGN
536	VACANT	---	---	---	---	---	---	---	---	---	
537	FRANKLIN ST.	S1-1	36" X 36"	---	6.75	---	---	1	1	1	
537A	"	S16-9P	24" X 8"	---	1.33	---	---	---	---	---	MOUNT BELOW SIGN #537
537B	"	R2-6P	24" X 18"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #537A
	PAGE SUBTOTAL			133.27	44.42	3	11	2	34	11	

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

CAT 0030

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
538	FRANKLIN ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
539	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
540	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
541	"	R7-1R	18" X 24"	3.00	---	1		---	---	---	
542	E. OF FRANKLIN ST.	S4-51	24" X 48"	---	8.00	---	1	---	1	1	15 MPH
543	VACANT	---	---	---	---	---		---	---	---	
544	W. OF WASHINGTON ST.	R2-1	24" X 30"	5.00	---	---	1	---	---	---	25 MPH
545	"	SP	---	---	---	---	---	---	1	1	
546	WASHINGTON ST.	S5-2	24" X 30"	---	5.00	---	---	1	---	---	
546A	"	R7-1L	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #546
547	"	W14-3	---	---	---	---	---	---	1	---	
548	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
549	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
550	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
551	W. OF WASHINGTON ST.	SP	---	---	---	---	---	---	1	1	NO PARKING SCHOOL DAYS
552	"	SP	---	---	---	---	---	---	1	1	NO PARKING SCHOOL DAYS
553	"	SP	---	---	---	---	---	---	1	1	NO PARKING SCHOOL DAYS
554	VACANT	---	---	---	---	---	---	---	---	---	
555	ADAMS ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
556	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
557	"	W14-3	---	---	---	---	---	---	1	---	
558	"	R7-1R	18" X 24"	3.00	---	---	---	---	---	---	MOUNT ON LIGHT POLE
559	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
560	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
561	VACANT	---	---	---	---	---	---	---	---	---	
562	JEFFERSON ST.	S4-51	24" X 48"	---	8.00	---	---	---	1	---	MOUNT ON LIGHT POLE
563	"	R7-1L	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #562 ON LIGHT POLE
564	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
565	"	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	
566	N. OF JEFFERSON ST.	R7-52D	---	---	---	---	---	---	---	---	
567	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
568	"	SP	---	---	---	---	---	---	1	1	NO TRUCK PARKING
569	S. CHESTNUT AVE.	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
570	"	D9-2	24" X 24"	4.00	---	---	---	1	1	1	HOSPITAL
570A	"	MB6-1	21" X 21"	3.06	---	---	---	---	---	---	MOUNT BELOW SIGN #570
570B	"	W1-6	48" X 24"	---	8.00	---	---	---	1	---	MOUNT BELOW SIGN #570A
571	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
572	COLUMBIA ST.	R1-1	30" X 30"	5.18	---	---	---	1	1	1	
572A	"	R7-1R	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #572
573	"	W1-6	48" X 24"	---	8.00	---	1	---	1	1	
574	"	R2-1	24" X 30"	5.00	---	---	---	---	1	---	25 MPH
574A	"	R7-1D	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #573
575	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
576	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
577	SEE MOVING SIGNS	---	---	---	---	---	---	---	---	---	
578	"	---	---	---	---	---	---	---	---	---	
579	N. OF COLUMBIA ST.	R2-1	24" X 30"	5.00	---	---	1	---	1	1	25 MPH
	PAGE SUBTOTAL			113.68	37.00	10	12	3	23	18	

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

CAT 0030

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
580	N. OF COLUMBIA ST.	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
581	PAUL ST.	SP	---	---	---	---	---	---	1	---	NO PARKING DURING BALLGAME
582	"	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	MOUNT ON POWER POLE
583	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
584	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
585	N. OF PAUL ST.	W14-3	---	---	---	---	---	---	1	1	
586	"	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	
587	S. OF GROVE ST.	W10-1	36" X 36"	---	7.07	---	1	---	1	1	
588	"	SP	---	---	---	---	---	---	1	1	NO PARKING DURING BALLGAME
589	"	R7-1D	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW J4-1 SIGN
590	"	W14-3	---	---	---	---	---	---	1	1	
591	"	R2-1	24" X 30"	5.00	---	---	1	---	1	1	25 MPH
592	"	SP	---	---	---	---	---	---	1	---	NO PARKING DURING BALLGAME
593	GROVE ST.	S5-2	24" X 30"	---	5.00	---	---	1	---	---	
593A	"	R7-1D	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #593
594	"	W14-1	30" X 30"	---	6.25	---	1	---	1	1	
595	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
596	"	SP	---	---	---	---	---	---	1		NO PARKING DURING BALLGAME
597	VACANT	---	---	---	---	---	---	---	---	---	
598	S. OF MONROE ST.	SP	---	---	---	---	---	---	1	1	NO PARKING DURING BALLGAME
599	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
600	MONROE ST.	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
601	GROVE ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
602	MONROE ST.	R2-1	24" X 30"	5.00	---	---	1	---	1	1	25 MPH
603	VACANT	---	---	---	---	---	---	---	---	---	
604	N. OF MONROE ST.	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	
605	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
606	S. OF QUINCY ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
607	VACANT	---	---	---	---	---	---	---	---	---	
608	QUINCY ST.	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
609	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
610	N. OF QUINCY ST.	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	
611	"	S1-1	36" X 36"	---	6.75	---	---	1	---	---	
611A	"	S16-9P	24" X 8"	---	1.33	---	---	---	---	---	MOUNT BELOW SIGN #611
611B	"	R2-6P	24" X 18"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #611A
612	S. OF JACKSON ST.	W14-3	---	---	---	---	---	---	1	1	
613	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
614	JACKSON ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
615	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
616	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
617	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
618	N. OF JACKSON ST.	W10-1	36" X 36"	---	7.07	---	---	1	1	1	
619	"	R7-1R	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #618
620	S. OF VAN BUREN ST.	R2-1	24" X 30"	5.00	---	---	1	---	1	1	25 MPH
	PAGE SUBTOTAL			100.08	33.47	14	11	3	20	17	

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

CAT 0030

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
621	VAN BUREN ST.	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
622	"	R1-1	30" X 30"	5.18	---	---	1		1	1	
623	"	R2-1	24" X 30"	5.00	---	---	---	1	1	1	25 MPH
624	"	R7-1D	18" X 24"	3.00	---	---	---	---	---	---	
625	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
626	N. OF VAN BUREN ST.	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	
627	S. OF E. HIGHLAND DR.	W1-2R	30" X 30"	---	6.25	---	---	1	1	1	
627A	"	R7-1D	18" X 24"	3.00	---	---	---	---	---	---	MOUNT BELOW SIGN #627
628	"	R3-8A	36" X 30"	7.50	---	---	1	---	---	---	
629	"	W14-3	---	---	---	---	---	---	1	1	
630	"	R7-1D	18" X 24"	3.00	---	1	---	---	---	---	
631	"	R2-1	24" X 30"	5.00	---		1		1	1	25 MPH
632	VACANT	---	---	---	---	---	---	---	---	---	
633	E. HIGHLAND DR.	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	
634	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	
635	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
636	"	R7-51D	18" X 24"	3.00	---	1		---	1	1	
637	"	R1-1	30" X 30"	5.18	---	---	1	---	1	1	
638	"	R5-2	24" X 24"	4.00	---	---	---	---	1	---	MOUNT ON BACK OF SIGN #637
639	N. OF E. HIGHLAND DR.	R2-1	24" X 30"	5.00	---	---	1	---	---	---	25 MPH
640	"	R2-1	24" X 30"	5.00	---	---	1	---	1	1	45 MPH
641	"	R3-8W	54" X 30"	5.00	---	---	2	---	---	---	
642	"	W3-5	36" X 36"	---	9.00	---	1	---	---	---	25 MPH
	PAGE SUBTOTALS			79.04	15.25	7	10	2	10	9	
	PROJECT TOTALS			**426.07**	**130.14**	**34**	**44**	**10**	**87**	**55**	

MOVING SIGNS TYPE II

CAT 0030

SIGN NO.	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
524	N. OF S. MAIN ST.	1	1	CITY WAYFINDER SIGN, MOVE FOR CONSTRUCTION, PLACE IN SAME LOCATION
525	"	1	1	CITY WAYFINDER SIGN, MOVE FOR CONSTRUCTION, PLACE IN SAME LOCATION
532	E. OD S. MAIN ST.	1	1	CITY WAYFINDER SIGN, MOVE FOR CONSTRUCTION, PLACE IN SAME LOCATION
552	N. OF S. WASHINGTON ST.	1	1	NO PARKING SCHOOL DAYS, MOVE FOR CONSTRUCTION, PLACE IN SAME LOCATION
577	N. OF COLUMBIA ST.	1	1	CITY WAYFINDER SIGN, MOVE FOR CONSTRUCTION, PLACE IN SAME LOCATION
578	"	1	1	CITY WAYFINDER SIGN, MOVE FOR CONSTRUCTION, PLACE IN SAME LOCATION
	TOTALS	6	6	

TRAFFIC CONTROL SUMMARY

LOCATION	APPROXIMATE SERVICE DAYS	643.0300 DRUMS NO. IN SERVICE	DAYS	643.0410 BARRICADES TYPE II NO. IN SERVICE	DAYS	643.0420 BARRICADES TYPE III NO. IN SERVICE	DAYS	643.0705 WARNING LIGHTS TYPE A NO. IN SERVICE	DAYS	643.0715 WARNING LIGHTS TYPE C NO. IN SERVICE	DAYS	643.0900 SIGNS NO. IN SERVICE	DAYS	643.1050 SIGNS PMCS NO. IN SERVICE	DAYS	COMMENTS
STAGE 1 - SUBSTAGE 1A																
STH 22 (NORTH AND SOUTH OF E HIGHLAND DRIVE)	7	-	-	-	-	-	-	-	-	-	-	-	-	2	14	BEFORE CLOSURE OF INTERSECTION
E. HIGHLAND DRIVE (EAST AND WEST OF STH 22)	7	-	-	-	-	-	-	-	-	-	-	-	-	2	14	BEFORE CLOSURE OF INTERSECTION
STH 22 (SOUTH OF E. HIGHLAND DRIVE)	21	-	-	-	-	5	105	6	126	-	-	1	21	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL D
STH 22 (NORTH OF E. HIGHLAND DRIVE)	21	-	-	-	-	7	147	10	210	-	-	6	126	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL C & D
E. HIGHLAND DRIVE (WEST OF STH 22)	21	-	-	-	-	5	105	6	126	-	-	1	21	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 1
E. HIGHLAND DRIVE (EAST OF STH 22)	21	-	-	-	-	5	105	6	126	-	-	1	21	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 1
STH 22/VAN BUREN STREET	21	-	-	-	-	1	21	2	42	-	-	1	21	-	-	ROAD CLOSED .1 MILES AHEAD
STAGE 1 - SUBSTAGE 1B																
STH 22 (WEST OF ADAMS)	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	BEFORE CLOSURE OF ROADWAY
STH 22 (E. HIGHLAND DRIVE)	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	BEFORE CLOSURE OF ROADWAY/DETOUR INFORMATION
STH 22 (W. HIGHLAND DRIVE)	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	DETOUR INFORMATION
STH 22 / ADAMS STREET	96	-	-	-	-	2	192	4	384	-	-	4	384	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL B & E
STH 22 / JEFFERSON ROAD	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / S. CHESTNUT AVENUE	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / COLUMBIA STREET	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / PAUL STREET	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / GROVE STREET	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / MONROE STREET	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 & TEMPORARY STOP SIGN
STH 22 / QUINCY STREET	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 & TEMPORARY STOP SIGN
STH 22 / JACKSON STREET	96	-	-	-	-	4	384	8	768	-	-	6	576	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 & TEMPORARY STOP SIGN
STH 22 / VAN BUREN STREET	96	-	-	-	-	2	192	4	384	-	-	3	288	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 & TEMPORARY STOP SIGN
STH 22 / E. HIGHLAND DRIVE	96	-	-	-	-	2	192	4	384	-	-	4	384	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL B & E
STH 22 / MAIN STREET	50	-	-	-	-	1	50	2	100	-	-	1	50	-	-	ROAD CLOSED .2 MILES AHEAD
CTH I / COLUMBIA STREET	50	-	-	-	-	1	50	2	100	-	-	1	50	-	-	ROAD CLOSED 1/2 MILES AHEAD
STAGE 1 - SUBSTAGE 1B	96	-	-	10	960	-	-	-	-	-	-	10	960	-	-	TRAFFIC CONTROL, SIDEWALK CLOSURES
STAGE 1 - SUBSTAGE 1B	96	-	-	-	-	-	-	-	-	-	-	30	2,880	-	-	TEMPOARY NO PARKING SIGNS
STAGE 1 - SUBSTAGE 1B	96	150	14400	-	-	15	1440	30	2880	30	2880	10	960	-	-	TRAFFIC CONTROL FOR MAINTAINING ACCESS IN WORK ZONE
STAGE 1 - SUBSTAGE 1C																
STH 22 / S. MAIN STREET	46	-	-	-	-	5	230	6	276	-	-	3	138	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL E
STH 22 / S. FRANKLIN STREET	46	-	-	-	-	4	184	8	368	-	-	6	276	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / S. WASHINGTON STREET	46	-	-	-	-	4	184	8	368	-	-	6	276	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / ADAMS STREET	46	-	-	-	-	4	184	8	368	-	-	6	276	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
CTH I / COLUMBIA STREET	46	-	-	-	-	1	46	2	92	-	-	1	46	-	-	ROAD CLOSED 1/2 MILES AHEAD
STAGE 1 - SUBSTAGE 1C	46	-	-	20	920	-	-	-	-	-	-	20	920	-	-	TRAFFIC CONTROL, SIDEWALK CLOSURES
STAGE 1 - SUBSTAGE 1C	46	-	-	-	-	-	-	-	-	-	-	12	552	-	-	TEMPOARY NO PARKING SIGNS
STAGE 1 - SUBSTAGE 1C	46	100	4600	-	-	10	460	20	920	20	920	5	230	-	-	TRAFFIC CONTROL FOR MAINTAINING ACCESS IN WORK ZONE
STAGE 1 - UNDISTRIBUTED	18	-	-	-	-	-	-	-	-	-	-	-	-	1	18	TRAFFIC CONTROL FOR MAINTAINING ACCESS IN WORK ZONE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC CONTROL SUMMARY (CONTINUED)

LOCATION	APPROXIMATE SERVICE DAYS	643.0300 DRUMS NO. IN SERVICE	643.0300 DRUMS DAYS	643.0410 BARRICADES TYPE II NO. IN SERVICE	643.0410 BARRICADES TYPE II DAYS	643.0420 * BARRICADES TYPE III NO. IN SERVICE	643.0420 * BARRICADES TYPE III DAYS	643.0705 * WARNING LIGHTS TYPE A NO. IN SERVICE	643.0705 * WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO. IN SERVICE	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 SIGNS NO. IN SERVICE	643.0900 SIGNS DAYS	643.1050 SIGNS PMCS NO. IN SERVICE	643.1050 SIGNS PMCS DAYS	COMMENTS
STAGE 2 - SUBSTAGE 2A																
STH 22 (NORTH OF CHERRY AVENUE)	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	BEFORE CLOSURE OF ROADWAY
STH 22 (SOUTH OF MAIN STREET)	7	-	-	-	-	-	-	-	-	-	-	-	-	1	7	BEFORE CLOSURE OF ROADWAY
STH 22 (NORTH OF CHERRY AVENUE)	92	-	-	-	-	4	368	8	736	-	-	6	552	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL A & E
STH 22 / CHERRY AVE	92	-	-	-	-	2	184	4	368	-	-	3	276	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / CALDWELL AVENUE	92	-	-	-	-	4	368	8	736	-	-	6	552	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / E. CENTRAL AVENUE	92	-	-	-	-	4	368	8	736	-	-	6	552	-	-	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES - DETAIL 4 / TEMPORARY STOP SIGN
STH 22 / MAIN STREET	92					4	368	8	736	-	-	4	368	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL C & E / TEMPOARARY STOP SIGN
STH 22 / UNION AVENUE	92					4	368	8	736	-	-	4	368	-	-	BARRICADES AND SIGNS FOR MAINLINE CLOSURES - DETAIL C & E / TEMPOARARY STOP SIGN
STH 22 / CHESTNUT AVENUE	92	-	-	-	-	1	92	2	184	-	-	1	92	-	-	ROAD CLOSED 1/2 MILES AHEAD
CTH I / MAIN STREET	92	-	-	-	-	1	92	2	184	-	-	1	92	-	-	ROAD CLOSED 1 MILES AHEAD
STAGE 2 - SUBSTAGE 2A	92	-	-	20	1840	-	-	-	-	-	-	20	1,840	-	-	TRAFFIC CONTROL, SIDEWALK CLOSURES
STAGE 2 - SUBSTAGE 2A	92	-	-	-	-	-	-	-	-	-	-	20	1,840	-	-	TEMPOARY NO PARKING SIGNS
STAGE 2 - SUBSTAGE 2A	92	100	9200	-	-	10	920	20	1840	20	1840	4	368	-	-	TRAFFIC CONTROL FOR MAINTAINING ACCESS IN WORK ZONE
STAGE 2 - SUBSTAGE 2B																
PAVEMENT REPAIR AREA	60	200	12000	-	-	25	1500	50	3000	50	3000	25	1,500	-	-	TRAFFIC CONTROL FOR MAINTAINING TWO WAY TRAFFIC IN WORK ZONE
STAGE 2 - SUBSTAGE 2B	60	-	-	20	1200	-	-	-	-	-	-	30	1,800	-	-	TRAFFIC CONTROL, SIDEWALK CLOSURES
STAGE 2 - SUBSTAGE 2B	60	-	-	-	-	-	-	-	-	-	-	20	1,200	-	-	TEMPOARY NO PARKING SIGNS
STAGE 2 - UNDISTRIBUTED	19	-	-	-	-	-	-	-	-	-	-	-	-	1	19	TRAFFIC CONTROL FOR MAINTAINING ACCESS IN WORK ZONE
TOTALS			40,200		4,920		10,243		19,966		8,640		22,872		100	

* QUANTITIES SHOWN ELSEWHERE

GEOTEXTILE FABRIC

STATION	LOCATION	TYPE DF SCHEDULE B 645.0112 SY	REMARKS
9+96	MAIN ST, LT	40	FOR UNDERDRAIN SUMP
TOTAL		40	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0920 COVERING SIGNS TYPE II		REMARKS
									CYCLES	EACH	
CAT 0010	STAGE 1A DETOUR										
	GAP IN SIGN NUMBERS (23-24)										
25	250' N OF SIGN # 26 ON HWY 22 (NB)	W20-2-A	48"x48"	1	21	21					
26	MODIFY J2-1 (22-AH LT) ON HWY 22 (NB)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	EXISTING								22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
27	MODIFY J3-1 (22-LT) ON HWY 22 (NB-NEAR RT)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	EXISTING								22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
28	MODIFY J3-1 (22-LT) ON HWY 22 (NB -FAR LT)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	EXISTING								22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
29	100' S OF UNION ST INTERSECTION ON S. MAIN ST	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
30	J13-1 (22) ON UNION ST (EB)								1	1	22
31	SW QUAD OF HWY 22 & So. MAIN ST INTERSECTION	R-11-3	60"x30"	1	21	21	21	42			1 MILE
32	BELOW SIGN # 31	MO 4-9-R	30"x24"	1	21	21					
33	100' N OF So. MAIN ST INTERSECTION ON HWY 22 (SB)	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
34	200' S OF UNION ST INTERSECTION ON So. MAIN ST (NB)	MO 4-8-A	24"x18"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
35	100' N OF WASHINGTON ST INTERSECTION ON So. MAIN ST (NB)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
36	100' S OF WASHINGTON ST INTERSECTION ON So. MAIN ST (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
37	RT OF J1-1 (JCT I) ON So. MAIN ST (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 5-1-L	21"x21"	1	21	21					
38	100' N OF CTY I INTERSECTION ON So. MAIN ST (NB)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
39	LT OF J13-1 (I - LT & RT) ON So. MAIN ST (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					LEFT
	SUBTOTAL			40	840	840	21	42	1	1	

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 21 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0920 COVERING SIGNS TYPE II CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
40	NW QUAD OF CTY I & So. MAIN ST INTERSECTION	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					RIGHT
41	150' N OF So. MAIN ST INTERSECTION ON CTY I (NB)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
42	300' N OF SIGN # 38 ON CTY I (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 5-1-R	21"x21"	1	21	21					
43	200' S OF COLUMBIA ST INTERSECTION ON CTY I (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
44	200' N OF COLUMBIA ST INTERSECTION ON CTY I (NB)	MO 4-8	24"x12"	1	21	21					
	"	M3-1	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
45	MODIFY J1-2 (JCT 22; END CTY I) ON CTY I (NB)	MO 4-8-A	24"x18"	1	21	21					
	"	M1-6	EXISTING								22
46	200' S OF HWY 22 INTERSECTION ON CTY I (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					AHEAD
47	MODIFY J13-1 (22-LT & RT)	M1-6	EXISTING								
	"	MO 6-1	21"x21"	1	21	21					RIGHT
48	NW QUAD OF HWY 22 & CTY I INTERSECTION	R-11-3	60"x30"	1	21	21	21	42			1/2 MILE
49	BELOW SIGN # 48	MO 4-9-L	30"x24"	1	21	21					
50	ON BACKSIDE OF J13-1 (I-RT) ON HWY 22 (NB) (FAR LT)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					LEFT
51	RT OF J13-2 (I-LT; HOSPITAL-LT) ON HWY 22 (SB-NEAR RT)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 6-1	21"x21"	1	21	21					LEFT
52	LT OF J1-1 (JCT I) ON HWY 22 (SB)	MO 4-8	24"x12"	1	21	21					
	"	M3-3	24"x12"	1	21	21					
	"	M1-6	24"x24"	1	21	21					22
	"	MO 5-1-L	21"x21"	1	21	21					
53	500' E OF SIGN # 52 ON HWY 22 (SB)	W20-2-A	48"x48"	1	21	21					
54	SE QUAD OF HWY 22 & HIGHLAND DR INTERSECTION	R-11-3	60"x30"	1	21	21	21	42			1/2 MILE
	SUBTOTAL			42	882	882	42	84	0	0	
	SUBTOTAL STAGE 1A			82	1,722	1,722	63	126	1	1	

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0920 COVERING SIGNS TYPE II		REMARKS
									CYCLES	EACH	
CAT 0010											
	STAGE 1B/C & STAGE 2 DETOUR										
1	100' W OF REDUCED SPEED AHEAD 30 MPH	W20-2-A	48"x48"	1	167	167					
2	ACROSS FROM SIGN # 1 (FACING EB TRAFFIC)	W20-2-A	48"x48"	1	167	167					
3	500' W OF OCONTO FALLS POPULATION SIGN	MO 4-8	24"x12"	1	167	167					
	"	M3-1	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 5-1-L	21"x21"	1	167	167					
4	ACROSS FROM SIGN # 3 (FACING EB TRAFFIC)	MO 4-8	24"x12"	1	167	167					
	"	M3-1	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 5-1-L	21"x21"	1	167	167					
5	NW QUAD OF STH 22 & HIGHLAND DR INTERSECTION (NEAR RT)	MO 4-8	24"x12"	1	167	167					
	"	M3-1	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					LEFT
6	SE QUAD OF STH 22 & HIGHLAND DR INTERSECTION (FAR LT)	MO 4-8	24"x12"	1	167	167					
	"	M3-1	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					LEFT
7A	SW QUAD OF STH 22 & HIGHLAND DR INTERSECTION (WEST LEG)	R11-3	60"x30"	1	167	167	167	334			1/4 MILE
7B	BELOW SIGN # 7A	MO 4-9-L	30"x24"	1	167	167					
8	100' E OF STH 22 INTERSECTION ON HIGHLAND DR.	MO 4-8	24"x12"	1	167	167					
	"	M3-1	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					AHEAD
9	100' E OF WESTERLY ADVANCED RR X-ING SIGN ON HIGHLAND DR	MO 4-8-A	24"x18"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
10	100' E OF CHERRY ST INTERSECTION ON HIGHLAND DR.	MO 4-8	24"x12"	1	167	167					
	"	M3-1	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					AHEAD
11	100' W OF CHERRY ST INTERSECTION ON HIGHLAND DR.	MO 4-8	24"x12"	1	167	167					
	"	M3-3	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					AHEAD
12	75' W OF N. MUNSERT AVE ON HIGHLAND DR.	MO 4-8-A	24"x18"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
13	200' S OF REA RD ON STH 22	W20-2-A	48"x48"	1	167	167					
14	ACROSS FROM SIGN # 13 (FACING WB TRAFFIC)	W20-2-A	48"x48"	1	167	167					
15	300' N OF CHESTNUT RD INTERSECTION ON STH 22	MO 4-8	24"x12"	1	167	167					
	"	M3-3	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 5-1-R	21"x21"	1	167	167					
	SUBTOTAL			42	7,014	7,014	167	334	0	0	

3

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 167 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0920 COVERING SIGNS TYPE II		REMARKS
									CYCLES	EACH	
16	ACROSS FROM SIGN # 15 (FACING WB TRAFFIC)	MO 4-8	24"x12"	1	167	167					
	"	M3-3	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 5-1-R	21"x21"	1	167	167					
17	NW QUAD OF HIGHLAND DR INTERSECTION ON STH 22 (NEAR RT)	MO 4-8	24"x12"	1	167	167					
	"	M3-3	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					RIGHT
18	SE QUAD OF HIGHLAND DR INTERSECTION ON STH 22 (FAR LT)	MO 4-8	24"x12"	1	167	167					
	"	M3-3	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					RIGHT
19	150' W OF STH 22 INTERSECTION ON HIGHLAND DR	MO 4-8	24"x12"	1	167	167					
	"	M3-3	24"x12"	1	167	167					
	"	M1-6	24"x24"	1	167	167					22
	"	MO 6-1	21"x21"	1	167	167					AHEAD
20	SW QUAD OF STH 22 & HIGHLAND DR INTERSECTION (EAST LEG)	R11-3	60"x30"	1	167	167	167	334			ROAD CLOSED
21	BELOW SIGN # 20	MO 4-9-R	30"x24"	1	167	167					
22	RT OF J13-1 (I-RT) ON HWY 22 (NB) @ CTY I	D9-2	24"x24"	1	167	167					
	"	MB 6-1	21"x21"	1	167	167					RIGHT
	SUBTOTAL			20	3,340	3,340	167	334	0	0	
	SUBTOTAL STAGE 1 B/C & 2			62	10,354	10,354	334	668	0	0	
	TOTALS			**144**	**12,076**	**12,076**	**397**	**794**	**1**	**1**	

PAVEMENT MARKING

CAT.	STATION	TO	STATION	LOCATION	646.0106 EPOXY 4-INCH YELLOW LF	646.0106 EPOXY 4-INCH WHITE LF	646.0126 EPOXY 8-INCH WHITE LF	647.0110 RAILROAD CROSSINGS EPOXY EACH	647.0156 ARROWS EPOXY TYPE 1 EACH	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0356 WORDS EPOXY EACH	647.0566 STOP LINE EPOXY 18-INCH LF	647.0653 PARKING STALL PAINT LF	647.0726 DIAGONAL EPOXY 12-INCH LF	647.0766 EPOXY CROSSWALK 6-INCH LF	647.0456 CURB EPOXY LF	REMARKS
0010																	
	440+91	-	448+19	STH 22	1,400	1,260	-	-	-	-	-	-	-	-	240	245	DOUBLE YELLOW CENTERLINE
	448+19	-	454+78	STH 22	1,290	1,210	-	-	-	-	-	-	-	-	330	210	DOUBLE YELLOW CENTERLINE
	454+78	-	5+96	STH 22	1,040	990	-	-	-	-	-	-	-	-	600	395	DOUBLE YELLOW CENTERLINE
	5+96	-	8+68	STH 22	596	275	-	-	-	-	-	-	-	-	260	210	DOUBLE YELLOW CENTERLINE
	8+68	-	11+89	STH 22	618	255	-	-	-	-	-	-	-	-	260	170	DOUBLE YELLOW CENTERLINE
	11+89	-	15+15	STH 22	614	255	-	-	-	-	-	-	-	-	270	175	DOUBLE YELLOW CENTERLINE
	15+15	-	18+36	STH 22	642	-	-	-	-	-	-	-	-	-	150	110	DOUBLE YELLOW CENTERLINE
	18+36	-	25+75	STH 22	1,320	-	-	-	-	-	-	-	-	-	130	280	DOUBLE YELLOW CENTERLINE
	25+75	-	30+50	STH 22	930	-	-	-	-	-	-	-	-	-	155	155	DOUBLE YELLOW CENTERLINE
	30+50	-	34+01	STH 22	690	-	-	1	-	-	-	-	-	-	185	195	DOUBLE YELLOW CENTERLINE
	34+01	-	38+75	STH 22	900	-	-	1	-	-	-	-	-	-	445	305	DOUBLE YELLOW CENTERLINE
	38+75	-	41+75	STH 22	600	-	-	-	-	-	-	-	-	-	85	30	DOUBLE YELLOW CENTERLINE
	41+75	-	51+07	STH 22	2,170	-	230	-	-	4	2	-	-	80	135	265	DOUBLE YELLOW CENTERLINE
	8+04	-	11+94	E. HIGHLAND DRIVE	560	-	240	-	-	4	2	70	-	-	-	-	DOUBLE YELLOW CENTERLINE
	442+00	-	442+90	STH 22, RT	-	-	-	-	-	-	-	-	30	-	-	-	REPLACE PARKING LOT MARKING
	39+40	-	40+50	STH 22, RT	-	-	-	-	-	-	-	-	30	-	-	-	REPLACE PARKING LOT MARKING
	42+90	-	44+25	STH 22, RT	-	-	-	-	2	-	-	-	-	-	-	-	REPLACE REMOVED IN CE ENTRANCE
				ENTIRE PROJECT	-	-	-	-	-	-	-	405	-	-	-	-	SIDEROADS
	SUBTOTALS				13,370	4,245	470	2	2	8	4	475	60	80	3,245	2,745	
0030																	
	420+00	-	440+91	STH 22	525	-	-	-	-	-	-	-	-	-	-	85	MATCH EXISTING
	SUBTOTALS				525	0	0	0	0	0	0	0	0	0	0	85	
	TOTALS				18,140		470	2	2	8	4	475	60	80	3,245	2,830	

UTILITY LINE OPENINGS

STATION	LOCATION	SPV.0060.03 EACH
UNDISTRIBUTED	STH 22	10
TOTAL		10

ADJUSTING WATER VALVE BOXES

CATEGORY	STATION	LOCATION	SPV.0060.05 EACH
0030	ENTIRE PROJECT	STH 22	64
	TOTAL		64

TEMPORARY CURB RAMP

STATION	LOCATION	SPV.0060.07 EACH
ENTIRE PROJECT	STH 22	10
TOTAL		10

ADJUSTING SANITARY MANHOLE COVER

CATEGORY	STATION	LOCATION	SPV.0060.04 EACH
0030	ENTIRE PROJECT	STH 22	32
	TOTAL		32

ADJUSTING WATER SERVICE CURB STOP

CATEGORY	STATION	LOCATION	SPV.0060.06 EACH
0030	ENTIRE PROJECT	STH 22	100
	TOTAL		100

REMOVE AND REINSTALL CHAIN LINK FENCE

STATION	TO	STATION	LOCATION	SPV.0090.06 LF
442+00	-	443+70	STH 22, LT	170
	TOTAL			170

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4000 STORM SEWER SYSTEM EACH	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB, GUTTER, AND CURB AND GUTTER LF	650.7000 CONCRETE PAVEMENT LF	650.8500 ELECTRICAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
440+91	-	460+50	STH 22	21	1,959	-	3,500	1,959	1	1	1,959
5+14	-	51+04	STH 22	41	4,590	179	7,120	4,411	-	-	4,590
10+15	-	10+75	CHERRY AVE	2	60	25	139	35	-	-	60
9+61	-	9+79	CALDWELL AVE	-	18	5	45	13	-	-	18
10+21	-	10+45	CALDWELL AVE	-	24	5	60	19	-	-	24
9+35	-	9+85	CENTRAL AVE	-	50	18	38	32	-	-	50
10+15	-	10+65	CENTRAL AVE	-	50	17	36	33	-	-	50
9+45	-	9+75	MAIN AVE	-	30	5	82	25	-	-	30
9+15	-	9+75	FRANKLIN ST	-	60	33	135	27	-	-	60
10+17	-	10+55	FRANKLIN ST	1	38	10	90	28	-	-	38
9+25	-	9+75	WASHINGTON ST	-	50	23	116	27	-	-	50
10+17	-	10+55	WASHINGTON ST	1	38	10	90	28	-	-	38
9+20	-	9+75	ADAMS ST	1	55	28	132	27	-	-	55
10+17	-	10+60	ADAMS ST	1	43	10	106	33	-	-	43
10+17	-	10+70	JEFFERSON ST		53	25	121	28	-	-	53
7+30	-	8+04	S CHESTNUT AVE	-	74	15	140	59	-	-	74
10+49	-	10+85	COLUMBIA ST	-	36	10	78	26	-	-	36
10+17	-	11+00	PAUL ST	2	83	50	183	33	-	-	83
10+17	-	10+75	GROVE ST	2	58	20	98	38	-	-	58
9+05	-	9+83	MONROE ST	1	78	45	175	33	-	-	78
9+40	-	9+83	QUINCY ST	-	43	10	105	33	-	-	43
9+40	-	9+83	JACKSON ST	-	43	10	109	33	-	-	43
10+17	-	10+65	JACKSON ST	3	48	10	120	38	-	-	48
9+40	-	9+83	VANBUREN ST	-	43	10	104	33	-	-	43
9+00	-	9+79	E HIGHLAND DR	2	79	15	205	64	-	-	79
10+28	-	11+25	E HIGHLAND DR	2	97	5	225	92	-	-	97
TOTALS				80	7,800	593	13,352	7,207	1	1	7,800

CONCRETE BASES TYPE 5

STATION	OFFSET	LOCATION	654.0105 EACH
440+87	31.1	STH 22, LT	1
441+75	32.0	STH 22, RT	1
442+65	31.9	STH 22, LT	1
443+25	31.9	STH 22, RT	1
444+37	31.5	STH 22, LT	1
445+28	31.5	STH 22, RT	1
446+29	32.1	STH 22, LT	1
447+11	31.6	STH 22, RT	1
448+21	32.1	STH 22, LT	1
448+78	31.2	STH 22, RT	1
449+63	32.0	STH 22, LT	1
450+56	31.4	STH 22, RT	1
451+52	31.7	STH 22, LT	1
452+36	31.5	STH 22, RT	1
453+10	31.6	STH 22, LT	1
453+88	31.5	STH 22, RT	1
454+75	33.2	STH 22, LT	1
455+38	31.4	STH 22, RT	1
456+26	26.0	STH 22, LT	1
457+15	26.0	STH 22, RT	1
458+03	26.0	STH 22, LT	1
458+84	26.0	STH 22, RT	1
459+72	26.0	STH 22, LT	1
460+49	26.0	STH 22, RT	1
8+74	25.9	STH 22, RT	1
11+19	25.8	STH 22, RT	1
15+11	20.1	STH 22, LT	1
17+62	23.5	STH 22, LT	1
21+35	24.9	STH 22, RT	1
TOTAL			29

NOTE: FINAL LOCATIONS TO BE VERIFIED BY CITY OF OCONTO FALLS

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SAWING PAVEMENT

CAT.	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010					
	440+91	STH 22, LT	-	33	ROAD/SIDEWALK
	441+00	STH 22, RT	225	33	ROAD/CE/PARKING LOT
	441+00	STH 22, LT	-	39	1' FROM BUILDING
	10+50	CHERRY AVE, LT	-	32	1' FROM BUILDING
	10+75	CHERRY AVE	36	27	ROAD/SIDEWALK
	442+00	STH 22, LT	115	-	PARKING LOT
	443+60	STH 22, RT	30	-	CE
	443+85	STH 22, LT	-	33	1' FROM BUILDING
	444+08	STH 22, RT	-	11	SIDEWALK
	444+25	STH 22, LT	18	-	CE
	444+65	STH 22, LT	-	43	1' FROM BUILDING
	445+11	STH 22, RT	14	-	CE
	445+40	STH 22, RT	-	22	1' FROM BUILDING
	445+46	STH 22, LT	32	-	CE
	445+95	STH 22, RT	-	43	1' FROM BUILDING
	446+16	STH 22, LT	28	-	CE
	446+50	STH 22, RT	-	73	1' FROM BUILDING
	446+60	STH 22, LT	-	50	1' FROM BUILDING
	446+98	STH 22, LT	68	-	CE
	447+25	STH 22, RT	-	34	1' FROM BUILDING
	447+85	STH 22, RT	78	-	PARKING LOT
	447+93	STH 22, LT	-	6	SIDEWALK
	9+61	CALDWELL AVE	33	12	ROAD/SIDEWALK
	10+45	CALDWELL AVE	28	14	ROAD/SIDEWALK
	449+15	STH 22, LT	-	76	1' FROM BUILDING
	450+05	STH 22, LT	-	77	1' FROM BUILDINGS
	450+50	STH 22, RT	-	199	1' FROM BUILDINGS
	450+74	STH 22, LT	-	9	CE
	450+85	STH 22, LT	-	4	SIDEWALK
	451+09	STH 22, LT	9	-	CE
	452+00	STH 22, LT	-	178	1' FROM BUILDINGS
	452+50	STH 22, RT	-	150	1' FROM BUILDINGS
	453+25	STH 22, LT	-	4	SIDEWALK
	453+55	STH 22, RT	61	-	CE
	454+00	STH 22, LT	-	120	1' FROM BUILDINGS
	454+25	STH 22, RT	-	92	1' FROM BUILDINGS
	9+35	CENTRAL AVE	36	25	ROAD/SIDEWALK
	9+50	CENTRAL AVE, LT	-	31	1' FROM BUILDING
	9+50	CENTRAL AVE, RT	-	34	1' FROM BUILDING
	10+50	CENTRAL AVE, LT	-	32	1' FROM BUILDING
	10+50	CENTRAL AVE, RT	-	33	1' FROM BUILDING
	10+65	CENTRAL AVE	36	23	ROAD/SIDEWALK
	456+65	STH 22, LT	-	51	1' FROM BUILDING
	456+65	STH 22, RT	-	49	1' FROM BUILDING
	456+01	STH 22, RT	28	-	PE

SAWING PAVEMENT (CONTINUED)

CAT.	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010					
	456+29	STH 22. LT	-	56	CE
	456+63	STH 22, RT	-	4	SIDEWALK
	456+89	STH 22, LT	-	4	SIDEWALK
	457+19	STH 22, RT	-	4	SIDEWALK
	457+62	STH 22, RT	-	3	SIDEWALK
	457+77	STH 22, LT	-	4	SIDEWALK
	458+20	STH 22, RT	-	3	SIDEWALK
	458+42	STH 22, RT	11	-	PE
	458+63	STH 22, RT	-	4	SIDEWALK
	459+02	STH 22, LT	-	4	SIDEWALK
	459+00	STH 22, RT	-	10	PE
	459+23	STH 22, RT	-	7	SIDEWALK
	459+53	STH 22, RT		10	PE
	459+82	STH 22, LT	-	4	SIDEWALK
	460+28	STH 22, RT	-	4	SIDEWALK
	5+14	STH 22, RT	9	11	PE
	9+50	MAIN AVE	37	13	ROAD/SIDEWALK
	6+75	STH 22, LT	28	-	PE
	6+75	STH 22, RT	13	-	PE
	7+20	STH 22, LT	-	4	SIDEWALK
	7+65	STH 22, LT	-	4	SIDEWALK
	9+15	FRANKLIN ST	31	15	ROAD/SIDEWALK
	9+33	FRANKLIN ST, LT	-	4	SIDEWALK
	10+55	FRANKLIN ST	32	15	ROAD/SIDEWALK
	9+34	STH 22, RT	-	4	SIDEWALK
	9+45	STH 22, LT	-	4	SIDEWALK
	9+97	STH 22, LT	37	-	PE
	10+31	STH 22, RT	-	4	SIDEWALK
	10+55	STH 22, LT	-	4	SIDEWALK
	10+79	STH 22, RT	-	4	SIDEWALK
	9+25	WASHINGTON AVE	31	10	ROAD/SIDEWALK
	10+55	WASHINGTON AVE	33	15	ROAD/SIDEWALK
	12+25	STH 22, RT	-	4	SIDEWALK
	12+59	STH 22, RT	11	-	PE
	13+16	STH 22, RT	-	15	PE
	13+43	STH 22, RT	-	3	SIDEWALK
	13+71	STH 22, LT	-	9	SIDEWALK
	13+96	STH 22, RT	-	3	SIDEWALK
	9+20	ADAMS ST	33	15	ROAD/SIDEWALK
	10+59	ADAMS ST	32	15	ROAD/SIDEWALK
	15+45	STH 22, LT	-	5	SIDEWALK
	15+77	STH 22, LT	-	18	PE
	16+00	STH 22, RT	-	140	3-PE AND PARKING LOT
	16+38	STH 22, LT	-	47	PE
	17+27	STH 22, RT	-	3	SIDEWALK

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SAWING PAVEMENT (CONTINUED)

CAT.	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010					
	10+55	JEFFERSON RD, LT	-	12	PE
	10+70	JEFFERSON RD	28	3	ROAD
	18+29	STH 22, RT	153	-	2-CE AND PARKING LOT
	18+57	STH 22, LT	-	4	SIDEWALK
	19+15	STH 22, LT	-	5	SIDEWALK
	7+30	S. CHESTNUT AVE	31	5	SIDEROAD
	10+85	COLUMBIA ST	31	5	SIDEROAD
	22+19	STH 22, RT	-	4	SIDEWALK
	22+74	STH 22, RT	-	3	SIDEWALK
	22+90	STH 22, RT	-	10	PE
	23+64	STH 22, RT	-	20	PE
	24+52	STH 22, RT	-	4	SIDEWALK
	25+36	STH 22, RT	-	4	SIDEWALK
	11+00	PAUL ST	31	5	SIDEROAD
	26+73	STH 22, RT	-	4	SIDEWALK
	27+02	STH 22, RT	-	27	PE
	27+36	STH 22, RT	-	3	SIDEWALK
	27+86	STH 22, RT	-	3	SIDEWALK
	28+12	STH 22, RT	13	-	PE
	28+26	STH 22, RT	-	14	PE
	28+55	STH 22, RT	-	3	SIDEWALK
	28+93	STH 22, RT	-	10	PE
	29+18	STH 22, RT	-	3	SIDEWALK
	29+94	STH 22, RT	11	-	PE
	30+37	STH 22, LT	11	-	CE
	10+75	GROVE ST	24	-	SIDEROAD
	31+44	STH 22, RT	-	2	SIDEWALK
	31+64	STH 22, RT	-	2	SIDEWALK
	9+05	MONROE ST	36	5	SIDEROAD
	32+73	STH 22, LT	198	-	3-CE AND PARKING LOT
	9+40	QUINCY ST	36	5	SIDEROAD
	36+40	STH 22, RT	14	-	PE
	9+40	JACKSON ST	37	5	SIDEROAD
	10+65	JACKSON ST	35	5	SIDEROAD
	39+50	STH 22, LT	30	-	CE
	39+99	STH 22, LT	16	-	PE
	40+67	STH 22, RT	20	-	CE
	9+40	VAN BUREN ST	36	5	SIDEROAD
	41+37	STH 22, RT	21	-	CE
	43+07	STH 22, RT	23	2	CE
	44+07	STH 22, RT	23	4	CE
	44+84	STH 22, LT	18	-	PE
	45+62	STH 22, LT	23	-	CE
	46+70	STH 22, LT	47	3	CE
	9+00	E. HIGHLAND DR	57	10	SIDEROAD

SAWING PAVEMENT (CONTINUED)

CAT.	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010					
	10+82	E. HIGHLAND DR	31	-	PE
	11+02	E. HIGHLAND DR	20	-	PE
	11+20	E. HIGHLAND DR	40	5	SIDEROAD
	50+25	STH 22	93	20	ROAD
	SUBTOTALS		2,400	2,425	
0020					
	ENTIRE PROJECT	STH 22	-	1,690	COLORED X-WALKS
	SUBTOTALS		0	1,690	
0030					
	420+00 - 440+91	STH 22	-	900	FOR CONC. PAVE. REPAIR AREA
	SUBTOTALS		0	900	
	TOTALS		2,400	5,015	

NOTE:
MAINLINE CONCRETE PAVEMENT TO BE SAWCUT AFTER POURING AT COLORED CROSSWALK LOCATIONS

STREET SWEEPING

STATION	LOCATION	SPV.0075.01 HRS
UNDISTRIBUTED	STH 22	100
TOTAL		100

INSTALLING CONDUIT

STATION	TO	STATION	LOCATION	SPV.0090.10 LF
440+87	-	459+72	STH 22, LT	1,925
441+75	-	460+50	STH 22, RT	1,915
8+74	-	11+19	STH 22, RT	245
TOTAL				4,085

BRICK PAVERS

CATEGORY	STATION	TO	STATION	LOCATION	REMOVE AND SALVAGE SPV.0165.01 SF	INSTALL SALVAGED SPV.0165.02 SF
0020	447+45	-	448+20	STH 22, RT	1,000	225
TOTALS					1,000	225

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

CONCRETE LANDSCAPING CURB

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.11 LF
0020					
	38+25	-	40+50	STH 22, RT	400
	TOTAL				400

CONCRETE LANDSCAPING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.08 BENCH EACH	SPV.0060.09 TRASH RECEPTACLE EACH	SPV.0060.10 PEDESTAL FOUNTAIN EACH
0020							
	443+75	-	445+00	STH 22, RT	1	1	-
	447+45	-	448+20	STH 22, RT	3	2	-
	38+25	-	40+50	STH 22, RT	1	1	1
	TOTALS				5	4	1

CONCRETE PAVER EDGE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.12 LF
0020					
	447+45	-	448+20	STH 22, RT	50
	TOTAL				50

PLANTING MIXTURE AND TOPSOIL SPECIAL

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0035.01 PLANTING MIXTURE CY	SPV.0035.02 TOPSOIL SPECIAL CY
0020						
	443+75	-	445+00	STH 22, RT	40	3.5
	447+45	-	448+20	STH 22, RT	50	10.5
	38+25	-	40+50	STH 22, RT	100	7
	TOTALS				190	21

SHREDDED HARDWOOD BARK MULCH

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.03 SY
0010					
	442+90	-	443+70	STH 22, LT	80
	SUBTOTAL				80
0020					
	443+75	-	445+00	STH 22, RT	70
	447+45	-	448+20	STH 22, RT	75
	38+25	-	40+50	STH 22, RT	160
	SUBTOTAL				305
	TOTAL				385

PEDESTRIAN CROSSWALK SIGN

CATEGORY	STATION	LOCATION	SPV.0060.11 EACH
0020			
	442+00	STH 22	1
	11+00	STH 22	1
	15+25	STH 22	1
	TOTAL		3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

C4
STH 22
CURVE NOTES
PI STA = 61+09.49
Y = 178359.749
X = 541019.304
DELTA = 88°43'50"
D = 04°59'59"
T = 1120.89'
L = 1774.74'
R = 1146.00'
PC STA = 49+88.66
PT STA = 67+63.40

END RECONSTRUCTION
END PROJECT 9180-19-71
STA. 49+25
Y=177175.869
X=540979.659

STA. 14+25.00EH E. HIGHLAND DR.
Y=177061.507
X=541400.542

STA. 12+94.38EH E. HIGHLAND DR.
Y=177063.589
X=541269.936

STA. 11+93.31EH E. HIGHLAND DR.
Y=177077.276
X=541169.794

STA. 48+29.88 STH 22=
STA. 10+00.00EH E. HIGHLAND DR.
Y=177080.806
X=540976.521

STA. 48+38.58 STH 22=
STA. 10+00.00EH E. HIGHLAND DR.
Y=177089.501
X=540976.712

PI STA. 48+32.90 STH 22=
Y=177083.824
X=540976.576

STA. 8+04.43EH E. HIGHLAND DR.
Y=177092.598
X=540781.162

STA. 6+04.13EH E. HIGHLAND DR.
Y=177085.778
X=540580.980

STA. 5+41.00EH E. HIGHLAND DR.
Y=177086.316
X=540517.855

STA. 41+32.15 STH 22=
STA. 10+00.00VB VANBUREN ST.
Y=176383.234
X=540961.246

STA. 12+39.00JK JACKSON ST.
Y=176066.044
X=541193.335

STA. 38+16.85 STH 22=
STA. 10+00.00JK JACKSON ST.
Y=176068.018
X=540954.343

STA. 35+00.84 STH 22=
STA. 10+00.00QU QUINCY ST.
Y=175752.083
X=540947.425

PI STA. 34+62.00 STH 22
Y=175713.248
X=540946.575

STA. 12+29.00GR GROVE ST.
Y=175339.554
X=541165.813

STA. 30+89.86 STH 22=
STA. 10+00.00GR GROVE ST.
Y=175341.237
X=540936.819

STA. 12+65PA PAUL ST.
Y=174857.473
X=541189.212

STA. 26+10.43 STH 22=
STA. 10+00.00 PA PAUL ST.
Y=174861.972
X=540924.250

STA. 12+81.00CO COLUMBIA ST.
Y=174396.055
X=541159.780

STA. 8+09.30CT CHESTNUT ST.
Y=174360.292
X=540911.095

STA. 5+86.00CT CHESTNUT ST.
Y=174137.068
X=540905.440

STA. 17+98.47 STH 22=
STA. 10+00.00JF JEFFERSON ST.
Y=174175.963
X=540624.599

PI STA. 16+64.69 STH 22
Y=174103.577
X=540512.093

PI STA. 15+14.67 STH 22
Y=174025.796
X=540383.808

STA. 8+57.00AD ADAMS ST.
Y=173884.668
X=540428.745

STA. 14+76.17 STH 22=
STA. 10+00.00AD ADAMS ST.
Y=174004.966
X=540351.432

STA. 7+67.00VB VANBUREN ST.
Y=176386.905
X=540728.275

STA. 38+16.78 STH 22=
STA. 10+00.00JK JACKSON ST.
Y=176067.940
X=540954.342

STA. 7+33.00JK JACKSON ST.
Y=176072.759
X=540687.385

STA. 7+90.00QU QUINCY ST.
Y=175755.346
X=540737.450

STA. 32+08.74 STH 22=
STA. 10+00.00MR MONROE ST.
Y=175460.078
X=540939.935

STA. 7+59.00MR MONROE ST.
Y=175463.040
X=540698.953

STA. 22+98.28 STH 22=
STA. 10+00.00CT CHESTNUT ST.
Y=174550.931
X=540916.094

STA. 21+43.03 STH 22=
STA. 10+00.00CO COLUMBIA ST.
Y=174400.452
X=540878.814

STA. 11+98.00JF JEFFERSON ST
Y=174341.920
X=540516.607

STA. 12+11.00AD ADAMS ST.
Y=174181.597
X=540235.998

STA. 14+74.51 STH 22=
STA. 10+00.00AD ADAMS ST.
Y=174004.069
X=540350.037

C3
STH 22
CURVE NOTES
PI STA = 21+39.15
Y = 174360.292
X = 540911.095
DELTA = 55°44'27"
D = 15°53'16"
T = 190.70'
L = 350.84'
R = 360.63'
PC STA = 19+48.44
PT STA = 22+99.28

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
9180-19-21		
FEDERAL PROJECT NUMBER ----------	4.01	19

PLAT OF RIGHT-OF-WAY REQUIRED FOR

CHERRY AVE. - EAST HIGHLAND DR.

STH 22 OCONTO COUNTY

CONSTRUCTION PROJECT NUMBER
9180-19-71

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN ○ (1" UNLESS NOTED)
R/W MONUMENT ● ●(SET)
R/W STANDARD ▲ ▲(SET)
SIGN (SIGN
SECTION CORNER MONUMENT ●
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT RWB20
PARCEL NUMBER 03
UTILITY PARCEL NUMBER 92
SIGN NUMBER (OFF PREMISE) 21-
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE	○	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌑	⌑
ELECTRIC TOWER	⊠	

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, OCONTO COUNTY, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, 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. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, 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 DESIRABLE,BUT WITHOUT PRJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

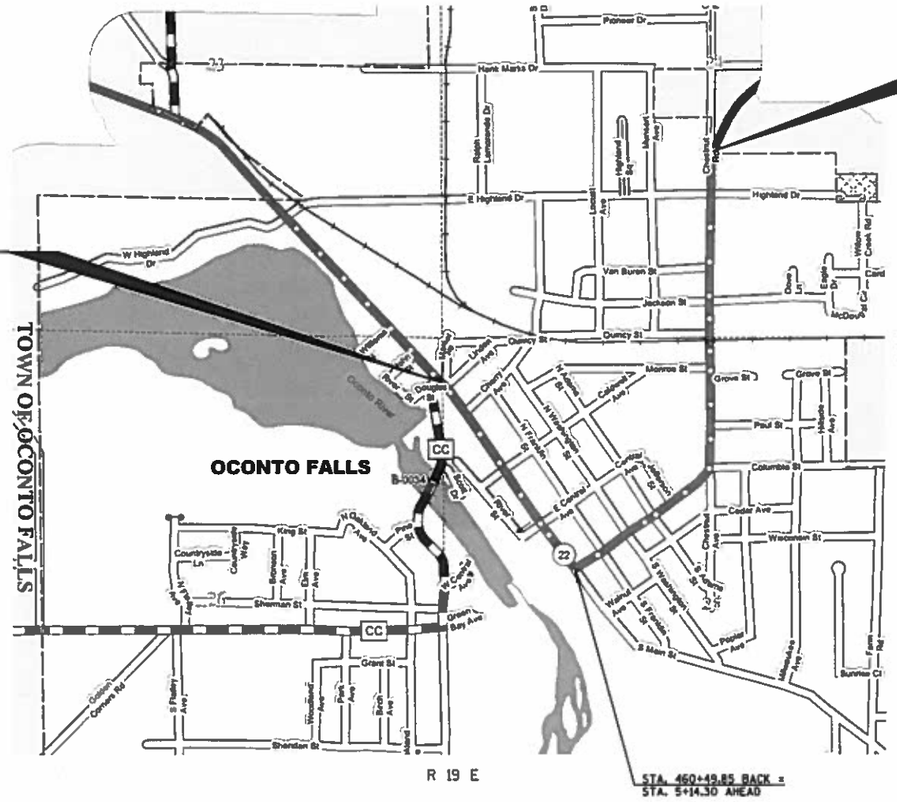
A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1"X24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.

BEGIN RELOCATION ORDER
STA. 437+99.37
420.59' SOUTH OF AND 38.32' WEST OF THE NORTHWEST CORNER OF SEC. 25, T.28N., R.19E.

END RELOCATION ORDER
STA. 49+88.66
1131.50' SOUTH OF AND 18.82' WEST OF THE CENTER CORNER OF SEC. 24, T.28N., R.19E.



LAYOUT
SCALE 0 .25 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.26 MI.

WISCONSIN JAMES A. HAESSLER S-1965 MILWAUKEE, WI LAND SURVEYOR

OTIE

James A. Haessler 4-17-2014
JAMES A. HAESSLER, AGENT OF OTIE DATE
REGISTRATION NUMBER: S-1965

REVISION	DATE
9/22/2014 NC	

CITY OF OCONTO FALLS

APPROVED FOR THE CITY OF OCONTO FALLS
DATE: 5/15/14 Viola A. Rovers
(Signature)

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE (S.F.)	PLE (ACRES)
				NEW	EXISTING	TOTAL		
1	4.07	DONALD & SHIRLEY PETERSON	TLE	-	-	-	4178	-
2	4.07	DONALD & SHIRLEY PETERSON	TLE	-	-	-	669	-
3	4.07	ST. ANTHONY'S CONGREGATION	FEE & TLE	425	-	425	2590	-
4	4.07 & 4.08	CITY OF OCONTO FALLS	TLE	-	-	-	7334	-
5	4.08	RANDEL G. DIETZE	TLE	-	-	-	301	-
6	4.08	MICHAEL T. & MARY G. SHOMIN	TLE	-	-	-	2225	-
7	4.08	SHANE SENN	TLE	-	-	-	97	-
8	4.08	WILLIAM J. & MARLENE J. KLUSSENDORF	TLE	-	-	-	135	-
9	4.08	TERENCE J. BECK	TLE	-	-	-	42	-
10	4.08	JAMES L. & SANDRA J. HANSON VENDORS, MATTHEW & MELANIE RICE, PURCHASERS	TLE	-	-	-	333	-
11	4.08	LYLE WOLFF & LILA WOLFF, TRUSTEES UNDER THE WOLFF LIVING TRUST	TLE	-	-	-	197	-
12	4.08	RONALD & LOUISE MAGEE	TLE	-	-	-	665	-
13	4.08	WILLIAM A. LABROSSE	TLE	-	-	-	40	-
14	4.08	CITY OF OCONTO FALLS	FEE & TLE	12	-	12	1356	-
15	4.08	JAKE D. MANTHEY	FEE & TLE	32	-	32	988	-
16	4.09	LEE C. & CHRISTINA L. SCHMIDT	TLE	-	-	-	213	-
17	4.09	GWIDT RENTALS, LLC	FEE & TLE	12	-	12	838	-
18	4.09	BART G. MAGNIN	TLE	-	-	-	172	-
19	4.09	MICHAEL L. KALLIES	TLE	-	-	-	30	-
-	-	-	-	-	-	-	-	-
21	4.09	MARK & PAULA DICKINSON	TLE	-	-	-	264	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
24	4.09	MICHAEL J. BAUMGARDT, SR.	TLE	-	-	-	347	-
25	4.09	DEBRA C. LOLLEY VENDEE, LESLIE & SHIRLEY VORPAHL, VENDOR	TLE	-	-	-	91	-
26	4.09	CAROL & SHIRLEY MANIKOWSKI	TLE	-	-	-	237	-
-	-	-	-	-	-	-	-	-
28	4.09	MARK S. & KATHY L. MICOLEY	TLE	-	-	-	22	-
29	4.09	WITT INC.	TLE	-	-	-	1031	-
30	4.09	ASSOCIATED BANK GREEN BAY, NATIONAL ASSOCIATION	TLE	-	-	-	9	-
31	4.09	TODD & KATIE DANIELS, VENDEES RICHARD W. HELSTAD, VENDOR	TLE	-	-	-	51	-
32	4.09	JOHN & BARBARA SALSCHEIDER	TLE	-	-	-	317	-
33	4.09	LAUREL K. LANGLEY	TLE	-	-	-	13	-
34	4.09	RICHARD L. BLASER	TLE	-	-	-	71	-
35	4.10	JASON & MICHELLE R. BOOR	TLE	-	-	-	113	-
-	-	-	-	-	-	-	-	-
37	4.10	ROBERT E. SHELLMAN	TLE	-	-	-	601	-
38	4.10	BRAD G. THOMPSON	TLE	-	-	-	1153	-
39	4.10	JILL A. GONDECK	FEE & TLE	300	-	300	600	-
40	4.10	NICHOLAS & SANDRA VANHAREN	TLE	-	-	-	250	-
41	4.10	CORY R. GRAHAM & CORINA M. ZABEL	FEE & TLE	450	-	450	900	-
42	4.10	ANTHONY J.UTSCHIG	TLE	-	-	-	650	-
43	4.10	DANIEL J. TEMPLE, JR. & KELLY F. TEMPLE	FEE & TLE	300	-	300	600	-
44	4.10	ROBERT M. & PATRICIA S. CARNEY	TLE	-	-	-	730	-
45	4.10	HARRY S. & JANICE M. KLATKIEWICZ	TLE	-	-	-	630	-

4

4

REVISION DATE
9/22/2014 NC

DATE 4-17-2014

GRID FACTOR N/A

HWY: 22

COUNTY: OCONTO

STATE R/W PROJECT NUMBER 9180-19-21

CONSTRUCTION PROJECT NUMBER 9180-19-71

PLAT SHEET 4.02

PS&E SHEET 124

E

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE (S.F.)	PLE (S.F.)
46	4.10	DUANE J. BREHMER & BRIAN M. BREHMER	TLE	-	-	-	900	-
47	4.10	RICHARD B. & RENEE G. LEMKE	TLE	-	-	-	773	-
48	4.11	CRAIG R. & SUE A. SPANG	FEE & TLE	433	-	433	1450	-
49	4.11	PAUL L. KINDEL	FEE & TLE	385	-	385	1204	-
50	4.11	ALAN F. & LAURA K. KAISER	TLE	-	-	-	1216	-
51	4.11	JASON D. & CHRISTY L. SAFIAN	TLE	-	-	-	1280	-
52	4.11	ERICK R. & ANNE MARIE FINKE	TLE	-	-	-	820	-
53	4.11	WEISS RENTAL, LLC	TLE	-	-	-	596	-
54	4.11	MICHAEL J. COPPENS	TLE	-	-	-	693	-
55	4.12	THOMAS L. & MURIEL J. LOTTER	TLE	-	-	-	985	-
56	4.12	BRADLEY K. SPINK	TLE	-	-	-	818	-
57	4.12	AMY GRUBER	TLE	-	-	-	300	-
58	4.12	REBECCA A. & DONALD R. HOBBS	TLE	-	-	-	1126	-
59	4.12	CYNTHIA A. MADER	TLE	-	-	-	474	-
60	4.12	NICHOLAS L. & KATHRYN D. LONZO	TLE	-	-	-	300	-
61	4.12	WASHINGTON MIDDLE SCHOOL	TLE	-	-	-	3144	-
62	4.12	KALEB M. SANTY & BREANNA L. BALLARD	TLE	-	-	-	600	-
63	4.12	CHRISTY M. MEUNIER	TLE	-	-	-	748	-
64	4.12	CHAD T. TRUDELL	TLE	-	-	-	500	-
65	4.13	RICHARD A. MARQUARDT	TLE	-	-	-	2564	-
66	4.13	THOMAS R. & GALYNA HICKEY	TLE	-	-	-	2011	-
67	4.13	TODD J. DUAME	TLE	-	-	-	986	-
68	4.13	DAVID VAN ARK	TLE	-	-	-	1800	-
69	4.13	JENNIFER SADORF	TLE	-	-	-	2400	-
70	4.14	MARY ONINSKI	TLE	-	-	-	600	-
71	4.14	JAMIE NELSON	TLE	-	-	-	2144	-
72	4.14	RICHARD A. & DEBRA S. REIMER	TLE	-	-	-	1547	-
73	4.15 & 4.16	CITY OF OCONTO FALLS	TLE	-	-	-	4301	-
74	4.14	RAYMOND M. & APRIL L. TABAR	TLE	-	-	-	601	-
75	4.14	RICKIE T. SMITH	TLE	-	-	-	601	-
76	4.15	CARLA H. & JOHN E. BRABANT	FEE & TLE	316	-	316	1488	-
77	4.15	TRAVIS R. SCHINDEL	FEE & TLE	316	-	316	1488	-
78	4.15	SONDRA M. & MICHAEL HILLBERG	FEE & TLE	343	-	343	1615	-
79	4.15	THOMAS J. & JILL M. MILHEISER	TLE	-	-	-	900	-
80	4.15	JODY M. MEYER	TLE	-	-	-	900	-
81	4.15	CHRISTOPHER L. KRATZ	TLE	-	-	-	300	-
82	4.15	CHAD & JANEL FALK	TLE	-	-	-	300	-
83	4.16	WILLIAM T. BASCH	TLE	-	-	-	300	-
84	4.16	MATHEW M. MCCONNELL	TLE	-	-	-	300	-
85	4.16	MARGARET A. WILLIAMS	TLE	-	-	-	300	-
86	4.16	ADAM ADLER	TLE	-	-	-	700	-
87	4.16	JOHN & YVONNE DUAME	TLE	-	-	-	500	-
88	4.16	WALTER & SANDRA FISCHER	TLE	-	-	-	600	-
89	4.16	FALTON FISCHER, JR. & DONA FISCHER	TLE	-	-	-	600	-
90	4.17	ESCANABA & LAKE SUPERIOR RAILROAD COMPANY	H.E.	2595	-	2595	-	-

4

4

REVISION DATE 9/22/2014

DATE 4-17-2014

GRID FACTOR N/A

HWY: 22

COUNTY: OCONTO

STATE R/W PROJECT NUMBER 9180-19-21

CONSTRUCTION PROJECT NUMBER 9180-19-71

PLAT SHEET 4.03

PS&E SHEET 125

E

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE (S.F.)	PLE (S.F.)
91	4.17	JEFFREY & VICTORIA COOPMAN	TLE	-	-	-	4650	-
92	4.17	PEITERSEN RENTALS LLP	TLE	-	-	-	150	-
93	4.17	JAMES P. MCCLURE	PLE & TLE	-	-	-	485	1465
94	4.17 & 4.18	CITY OF OCONTO FALLS	TLE	-	-	-	5133	-
95	4.17	B&G MAINSTREET INVESTMENTS, LLC	TLE	-	-	-	892	-
96	4.18	WALTER GONDECK, JR.	TLE	-	-	-	622	-
97	4.18	KINGDOM HALL OF JEHOVAH'S WITNESSES, OCONTO FALLS CONGREGATION, INC.	TLE	-	-	-	2920	-
98	4.18 & 4.19	THE PESHTIGO NATIONAL BANK	FEE & TLE	5655	-	5655	4186	-
99	4.19	MARK D. MORTELL	TLE	-	-	-	450	--
100	4.19	DREWS FAMILY REVOCABLE TRUST	PLE & TLE	-	-	-	1800	450
101	4.19	KRIST OIL COMPANY, INC.	FEE & TLE	50	-	50	996	-
102	4.19	VAUGHN A. & LINDA M. SPAULDING	FEE & TLE	1153	-	1153	2808	-
103	4.19	ALAN & RITA M. GARBRECHT	TLE	-	-	-	1354	-
104	4.19	WEISS LIVING TRUST	TLE	-	-	-	113	-
105	4.16	MERCIER INVESTMENTS, LLC	TLE	-	-	-	528	-
150	4.08	OCONTO FALLS WATER & LIGHT COMMISSION	RELEASE OF RIGHTS					
151	4.19	OCONTO ELECTRIC COOPERATIVE	RELEASE OF RIGHTS					
152	4.07, 4.11, 4.15, 4.16, 4.17, 4.18, & 4.19	CENTURYLINK	RELEASE OF RIGHTS					
153	4.11	ST PAPER	RELEASE OF RIGHTS					
155	4.19	WE ENERGIES	RELEASE OF RIGHTS					
156	4.07	OCONTO FALLS MUNICIPAL UTILITIES	RELEASE OF RIGHTS					

4

4

REVISION DATE
9/22/2014

DATE 4-17-2014

GRID FACTOR N/A

HWY: 22

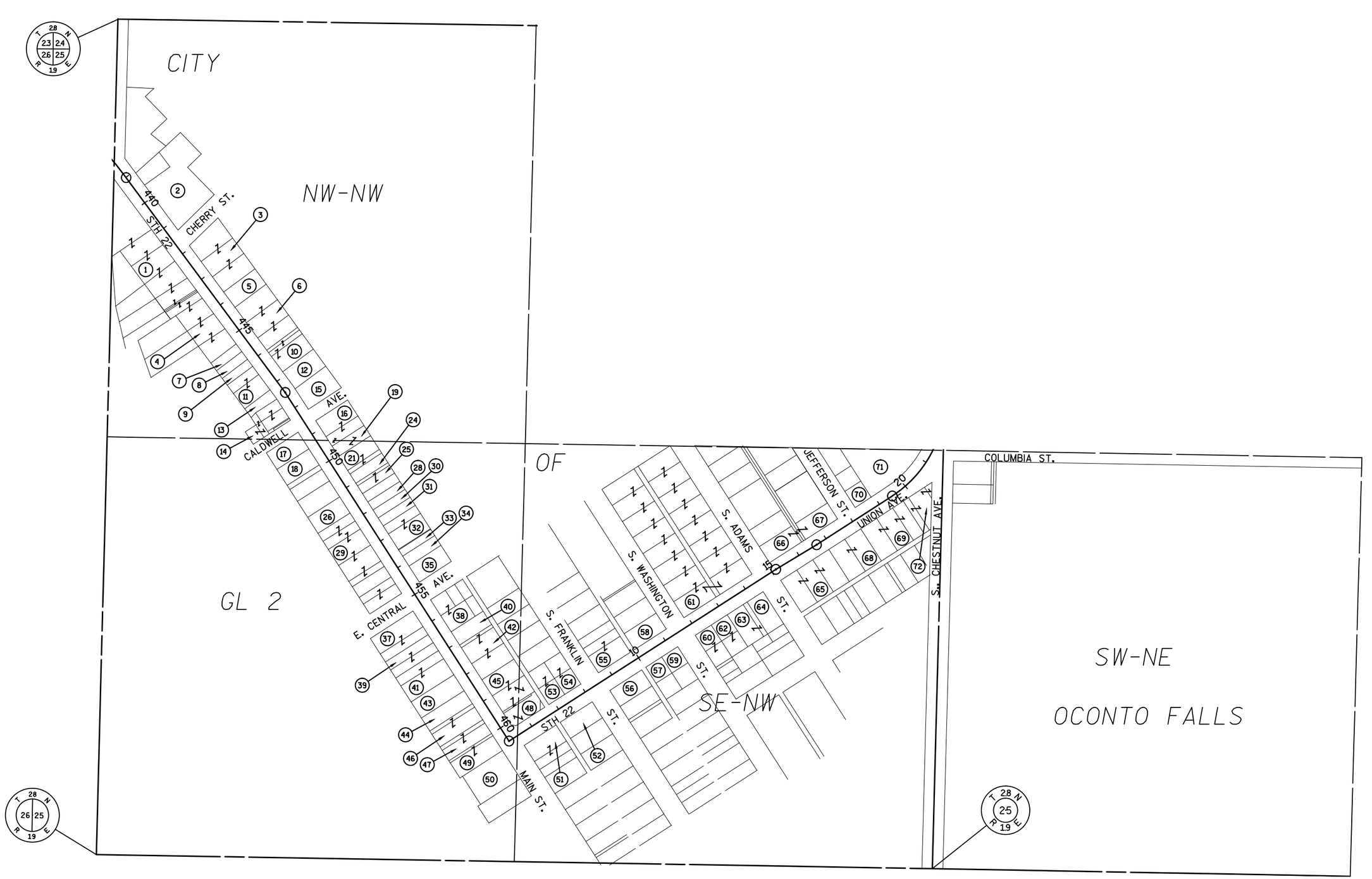
COUNTY: OCONTO

STATE R/W PROJECT NUMBER 9180-19-21

CONSTRUCTION PROJECT NUMBER 9180-19-71

PLAT SHEET 4.04

PS&E SHEET --126 E



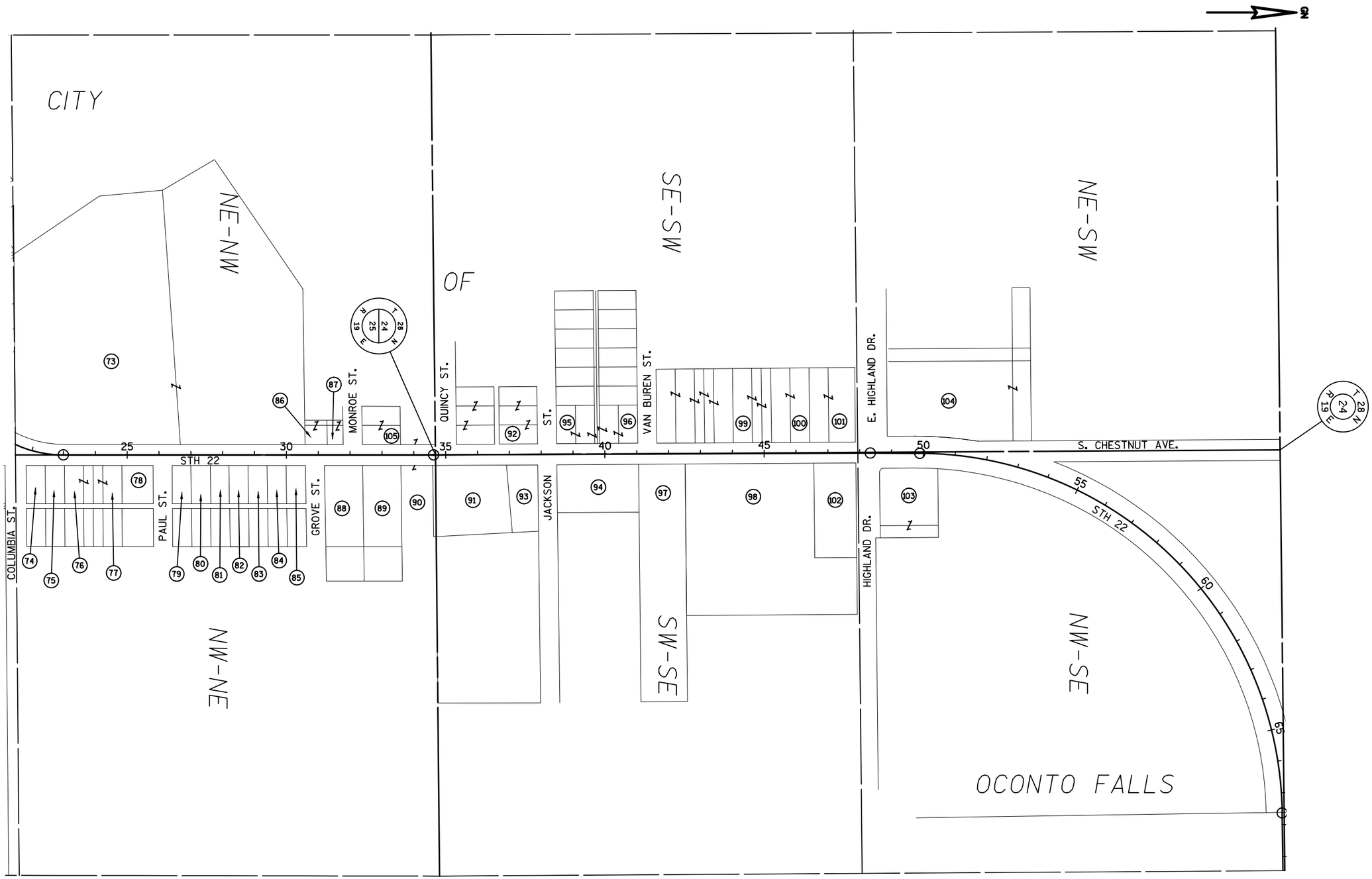
4

4

REVISION DATE 9/22/2014 NC	DATE 4-17-2014	NOT TO SCALE	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.05
			COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET --127 E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\LAYOUT SHEET 405.DWG PLOT DATE : 9/22/2014 10:49 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 0.003309

WISDOT/CADDS SHEET 75



REVISION DATE 9/22/2014 NC	DATE 4-17-2014	NOT TO SCALE	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.06
			COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET --128 E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\LAYOUT SHEET 405.DWG PLOT DATE : 9/22/2014 10:49 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 0.003173

HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (N. MAIN ST.)	CALDWELL'S ADDITION	1896	66'
CHERRY ST.	CALDWELL'S ADDITION	1896	60'

EXISTING MONUMENTS			
	Y	X	
I.P. 123	174904.44	538557.59	1"IRON PIPE
I.P. 100	174900.16	538642.56	1-1/2" IRON PIPE

CITY

LOT 4
CSM 1373
DOC. NO.376174
V.9, P.31

LOT 3
CSM 1373
DOC. NO.376174
V.9, P.31

DONALD PETERSON
&
SHIRLEY PETERSON

4" IRON PIPE FILLED
WITH CONCRETE
Y = 175760.17
X = 538309.38

MARKET ST.

N 01°28'59" E
451.83' (TO R/L)

PI: 438+50.30

STH 22

S41°35'46"E (R/L)

PC: 437+99.37

N 01° 28'59" E
50.98' (TO R/L)

438+40.31

PT: 439+01.16

BEGIN RELOCATION ORDER
STA. 437+99.37
Y = 175339.58
X = 538271.06

PI STA = 438+50.30
Y = 175301.49
X = 538304.87
DELTA = 5°04'23"
D = 4°59'02"
T = 50.93
L = 101.79
R = 1149.63
PC STA = 437+99.37
PT STA = 439+01.16

SECTION LINE

N 01° 28'59" E
2136.05'

GOV'T. LOT 1

NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

MAG NAIL
Y = 173127.18
X = 538241.21

PI: 10+62.59

CHERRY AVE.

N45°55'41"E

N35°05'45"E (R/L)

STA.441+60.09 STH 22 =
STA.10+00.00 CHERRY AVE.

S36°31'23"E (R/L)

CALDWELL'S ADDITION
BLOCK 2

ST. ANTHONY'S CONGREGATION

N. MAIN ST.

NW-NW

SLOPE INTERCEPT

CENTURY LINK
V.275, P.82
DOC. NO.232430
V.275, P.252
DOC. NO.232541
V.164, P.101
DOC. NO.163017

DONALD PETERSON
AND
SHIRLEY PETERSON

A. J. PETERSONS PLAT

CITY
OF
OCONTO
FALLS

OCONTO FALLS

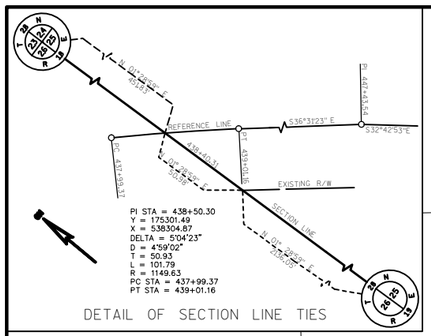
SEE 9180-19-21 SHEET 4.08

REVISION DATE 9/22/2014	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.07
	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET 129 E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG PLOT DATE : 9/22/2014 10:44 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1:40_XREF

HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (N. MAIN ST.)	CALDWELL'S ADDITION	1896	66'

EXISTING MONUMENTS			
	Y	X	
I.P. 122	174737.32	538681.32	1"IRON PIPE
I.P. 121	174713.55	538699.05	1"IRON PIPE
I.P. 120	174689.46	538717.25	SAWCUT CROSS
I.P. 119	174689.46	538717.25	1"IRON PIPE



DETAIL OF SECTION LINE TIES

CITY OF OCONTO FALLS

CALDWELL'S ADDITION BLOCK 2

RANDEL G. DIETZE

MICHAEL T. SHOMIN & MARY G. SHOMIN

JAMES L. HANSON & SANDRA J. HANSON, VENDORS, MATTHEW RICE & MELANIE RICE, PURCHASERS

RONALD MAGEE & LOUISE MAGEE

OCONTO FALLS WATER & LIGHT COMMISSION V.378, P.16 DOC. NO.268744

JAKE D. MANTHEY

SHANE SENN

WILLIAM J. KLUSSENDORF & MARLENE J. KLUSSENDORF

TERENCE J. BECK

LYLE WOLFF AND LILA WOLFF, TRUSTEES, UNDER THE WOLFF LIVING TRUST

WILLIAM A. LABROSSE

CITY OF OCONTO FALLS

CALDWELL'S ADDITION BLOCK 3

OCONTO FALLS

N. MAIN ST.

STH 22

SLOPE INTERCEPT

PI: 447+43.54
Y = 174583.61
X = 538836.52

S32°42'53"E (R/L)

S36°31'23"E (R/L)

SEE 9180-19-21 SHEET 4.07

SEE 9180-19-21 SHEET 4.09

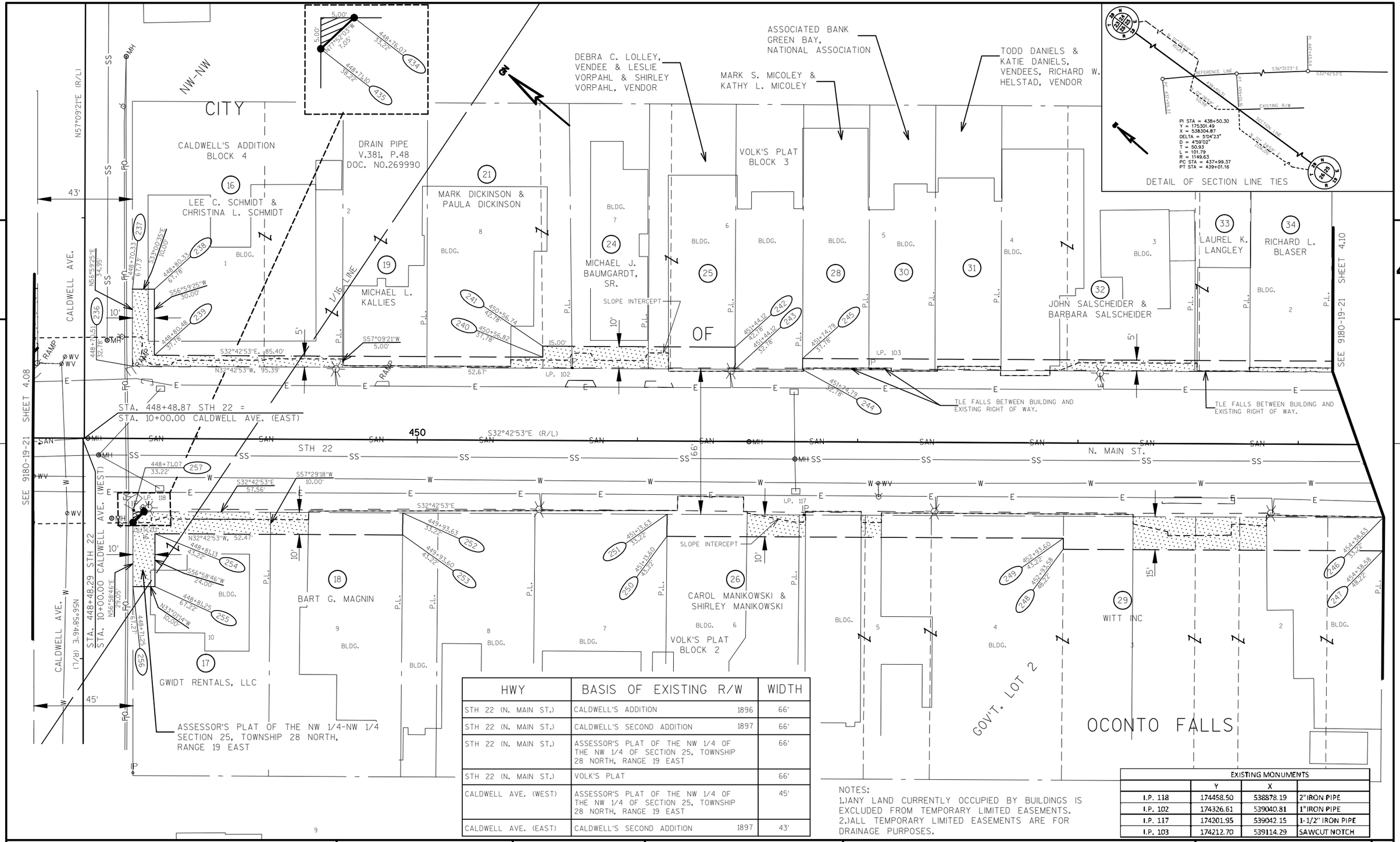
NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

ASSESSOR'S PLAT OF THE NW 1/4-NW 1/4 SECTION 25, TOWNSHIP 28 NORTH, RANGE 19 EAST

REVISION DATE 9/22/2014	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.08
	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET 130 E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG PLOT DATE : 11/11/2014 9:41 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75



HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (N. MAIN ST.)	CALDWELL'S ADDITION	1896	66'
STH 22 (N. MAIN ST.)	CALDWELL'S SECOND ADDITION	1897	66'
STH 22 (N. MAIN ST.)	ASSESSOR'S PLAT OF THE NW 1/4 OF THE NW 1/4 OF SECTION 25, TOWNSHIP 28 NORTH, RANGE 19 EAST		66'
STH 22 (N. MAIN ST.)	VOLK'S PLAT		66'
CALDWELL AVE. (WEST)	ASSESSOR'S PLAT OF THE NW 1/4 OF THE NW 1/4 OF SECTION 25, TOWNSHIP 28 NORTH, RANGE 19 EAST		45'
CALDWELL AVE. (EAST)	CALDWELL'S SECOND ADDITION	1897	43'

NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

EXISTING MONUMENTS			
	Y	X	
I.P. 118	174458.50	538878.19	2"IRON PIPE
I.P. 102	174326.61	539040.81	1"IRON PIPE
I.P. 117	174201.95	539042.15	1-1/2" IRON PIPE
I.P. 103	174212.70	539114.29	SAWCUT NOTCH

REVISION DATE
9/22/2014 NC

DATE 4-17-2014
GRID FACTOR

SCALE, FEET
0 20 40

HWY: 22
COUNTY: OCONTO

STATE R/W PROJECT NUMBER 9180-19-21
CONSTRUCTION PROJECT NUMBER 9180-19-71

PLAT SHEET 4.09
PS&E SHEET 131

E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG
PLOT DATE : 9/22/2014 10:43 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1:40_XREF

NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

EXISTING MONUMENTS			
	Y	X	
I.P. 116	173902.89	539233.42	1-1/2" IRON PIPE
I.P. 115	173819.17	539287.62	1"IRON PIN
I.P. 105	173829.58	539359.93	1" IRON PIPE
I.P. 114	173760.83	539325.26	3/4" IRON PIN
I.P. 106	173787.90	539386.87	1"IRON PIPE
I.P. 113	173697.87	539369.53	1"IRON PIPE
I.P. 112	173692.79	539369.23	1" IRON PIPE
I.P. 107	173678.77	539457.54	1" IRON PIPE
I.P. 111	173602.51	539427.16	1" IRON PIPE
I.P. 112	173692.79	539369.23	1" IRON PIPE

DETAIL OF SECTION LINE TIES

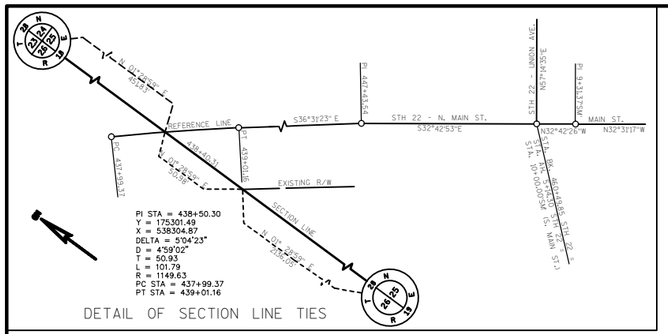
PI STA = 438+50.30
Y = 175301.49
X = 538304.87
DELTA = 5°04'23"
D = 4°59'02"
T = 50.93
L = 101.79
R = 1149.63
PC STA = 437+99.37
PT STA = 439+01.16

HWY	BASIS OF EXISTING R/W	WIDTH
STH 22 (N. MAIN ST.)	VOLK'S PLAT	66'
E. CENTRAL AVE.	VOLK'S PLAT	66'

REVISION DATE 9/22/2014 NC	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22
	GRID FACTOR		COUNTY: OCONTO

STATE R/W PROJECT NUMBER 9180-19-21
CONSTRUCTION PROJECT NUMBER 9180-19-71
PLAT SHEET 4.10
PS&E SHEET -- 132 E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG
PLOT DATE : 9/22/2014 10:43 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 75



DETAIL OF SECTION LINE TIES

EXISTING MONUMENTS			
	Y	X	
I.P. 108	173536.93	539548.11	1" IRON PIPE
I.P. 109	173532.91	539564.82	1" IRON PIPE
I.P. 152	173700.07	539824.39	2" IRON PIPE
I.P. 124	173644.74	539860.16	2" IRON PIPE

NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

HWY	BASIS OF EXISTING R/W	WIDTH
STH 22 (N. MAIN ST.)	VOLK'S PLAT	66'
JEFFERSON ST.	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'
STH 22 (N. MAIN ST.)	RIVERVIEW PLAT 1923	66'
STH 22 (UNION AVE.)	VOLK'S PLAT	66'
STH 22 (UNION AVE.)	VOLK'S ADDITION TO VOLK'S PLAT	66'
S. FRANKLIN ST.	VOLK'S ADDITION TO VOLK'S PLAT	66'

4

4

SEE 9180-19-21 SHEET 4.10

SEE 9180-19-21 SHEET 4.12

1/16 LINE

VOLK'S PLAT 8
BLOCK 1

CITY

49 PAUL L. KINDEL

GOV'T. LOT 2

RIVERVIEW PLAT

50 ALAN F. KAISER & LAURA K. KAISER

153 ST PAPER SEWER V.216, P.3 DOC. NO.205080

152 CENTURY LINK V.164, P.101 DOC. NO.163018

VOLK'S PLAT BLOCK 4

48 CRAIG R. SPANG & SUE A. SPANG

51 JASON D. SAFIAN & CHRISTY L. SAFIAN

VOLK'S PLAT BLOCK 5

152 CENTURY LINK V.517, P.343 DOC. NO.344004

VOLK'S ADDITION TO VOLK'S PLAT BLOCK 2

53 WEISS RENTAL, LLC

54 MICHAEL J. COPPENS

VOLK'S ADDITION TO VOLK'S PLAT BLOCK 1

52

A/C

OCONTO FALLS

STH 22

S. MAIN ST.

S. FRANKLIN ST.

UNION AVE.

STA. BK. 460+49.85 STH 22 = STA. AH. 5+14.30 STH 22 = STA. 10+00.00'SM' (S. MAIN ST.) (SOUTH OF INTERSECTION) FINKE

STA. 8+34.39 STH 22 = STA. 10+00.00 S. FRANKLIN ST. (NORTH)

STA. 8+35.29 STH 22 = STA. 10+00.00 S. FRANKLIN (SOUTH)

L. = 60.45'
L.C. = 54.43'
L.C.B. = S77°44'09"E
R. = 38.50'

L. = 76.15'
L.C. = 68.56'
L.C.B. = S77°44'09"E
R. = 48.50'

REVISION DATE			
9/22/2014			

DATE 4-17-2014

GRID FACTOR

SCALE, FEET 0 20 40

HWY: 22

COUNTY: OCONTO

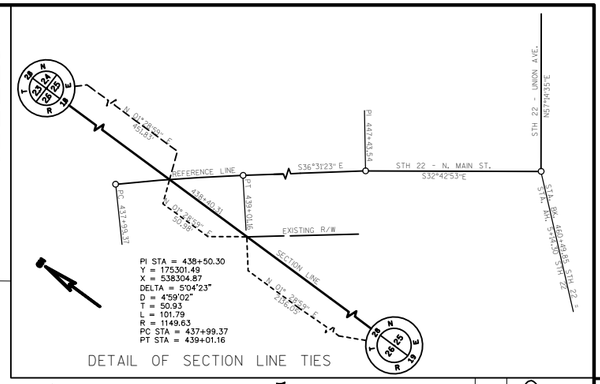
STATE R/W PROJECT NUMBER 9180-19-21

CONSTRUCTION PROJECT NUMBER 9180-19-71

PLAT SHEET 4.11

PS&E SHEET -- 133 E

EXISTING MONUMENTS			
	Y	X	
I.P. 125	173709.35	539961.15	1"IRON PIPE
I.P. 178	173782.15	540074.14	2"IRON PIPE
I.P. 151	173837.68	540038.71	1"IRON PIPE
I.P. 126	173812.46	540121.44	1"IRON PIPE W/CAP



DETAIL OF SECTION LINE TIES

CITY

OF

OCONTO FALLS

VOLK'S ADDITION TO VOLK'S PLAT BLOCK 5

VOLK'S 2ND ADDITION TO VOLK'S PLAT BLOCK 1

VOLK'S ADDITION TO VOLK'S PLAT BLOCK 6

VOLK'S 2ND ADDITION TO VOLK'S PLAT BLOCK 5

THOMAS L. LOTTER & MURIEL J. LOTTER

REBECCA A. HOBBS & DONALD R. HOBBS

WASHINGTON MIDDLE SCHOOL

BRADLEY K. SPINK

AMY GRUBER

CYNTHIA A. MADER

NICHOLAS L. LONZO & KATHRYN D. LONZO

KALEB M. SANTY & BREANNA L. BALLARD

CHRISTY M. MEUNIER

CHAD T. TRUDELL

S. WASHINGTON ST.

STH 22 N57°14'35"E (R/L)

UNION AVE. N57°16'35"E (R/L)

STA. 11+55.39 STH 22 = STA. 10+00.00 S. WASHINGTON ST. (SOUTH)

STA. 11+55.90 STH 22 = STA. 10+00.00 S. WASHINGTON ST. (NORTH)

SLOPE INTERCEPT

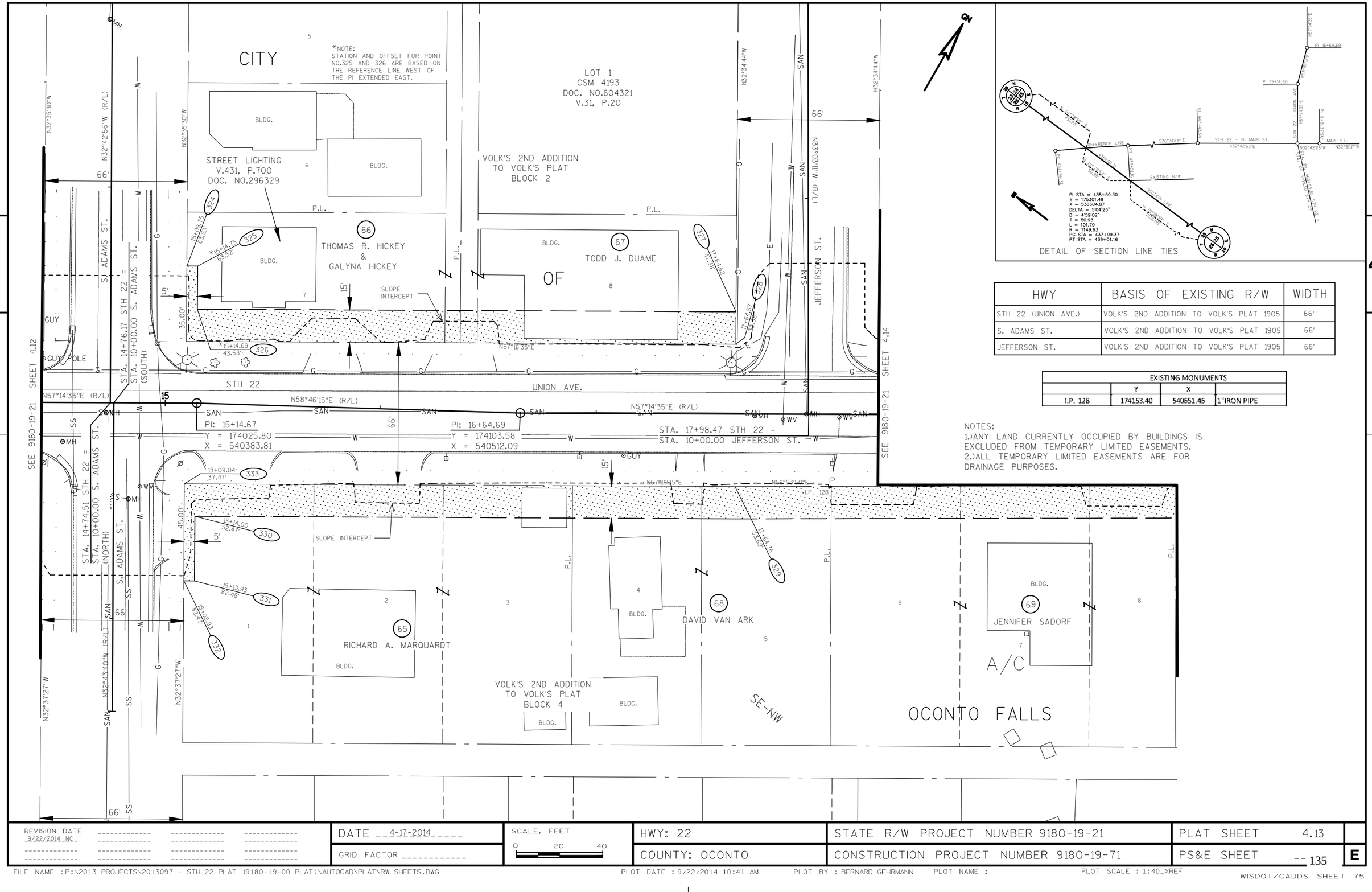
SEE 9180-19-21 SHEET 4.11

SEE 9180-19-21 SHEET 4.13

HWY	BASIS OF EXISTING R/W	WIDTH
STH 22 (UNION AVE.)	VOLK'S ADDITION TO VOLK'S PLAT	66'
STH 22 (UNION AVE.)	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'
S. WASHINGTON ST.	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'

NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

REVISION DATE 9/22/2014	DATE 4-17-2014	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.12
	SCALE: FEET 0 20 40	COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET -- 134 E
	GRID FACTOR			



DETAIL OF SECTION LINE TIES

HWY	BASIS OF EXISTING R/W	WIDTH
STH 22 (UNION AVE.)	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'
S. ADAMS ST.	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'
JEFFERSON ST.	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'

EXISTING MONUMENTS			
	Y	X	
I.P. 128	174153.40	540651.46	1"IRON PIPE

NOTES:
1.)ANY LAND CURRENTLY OCCUPIED BY BUILDINGS IS EXCLUDED FROM TEMPORARY LIMITED EASEMENTS.
2.)ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

REVISION DATE 9/22/2014 NC	DATE 4-17-2014	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21
	GRID FACTOR	COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71
	SCALE, FEET 0 20 40		

PLAT SHEET 4.13
PS&E SHEET -- 135
E

HWY	BASIS OF EXISTING R/W	WIDTH
STH 22 (UNION AVE.)	VOLK'S 2ND ADDITION TO VOLK'S PLAT 1905	66'
STH 22 (UNION AVE.)	STATE AID PROJECT NO. 3499 1936	VARIES
STH 22 (S. CHESTNUT AVE.)	STATE AID PROJECT NO. 3499 1936	VARIES
STH 22 (S. CHESTNUT AVE.)	ASSESSOR'S PLAT OF THE NE 1/4 OF THE NW 1/4 OF SECTION 25, TOWNSHIP 28 NORTH, RANGE 19 EAST	WEST 33'
STH 22 (S. CHESTNUT AVE.)	CONSTANT GAUTHIER'S ADDITION 1903	EAST 33'
S. CHESTNUT AVE.	CONSTANT GAUTHIER'S ADDITION 1903	EAST 33'
S. CHESTNUT AVE.	CONSTANT GAUTHIER'S ADDITION 1903	WEST 33'

EXISTING MONUMENTS			
	Y	X	
I.P. 149	174402.26	540842.63	2" IRON PIPE
I.P. 170	174366.53	540944.71	2" IRON PIPE

ASSESSOR'S PLAT OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 25, T28N, R19E
OUTLOT 4

NOTE:
ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

PI STA = 21+39.15
Y = 174360.29
X = 540911.09
DELTA = 55°44'27"
D = 15°53'16"
T = 190.70
L = 350.84
R = 360.63
PC STA = 19+48.44
PT STA = 22+99.28

SEE 9180-19-21 SHEET 4.13
SEE 9180-19-21 SHEET 4.15

VOLK'S 2ND ADDITION TO VOLK'S PLAT BLOCK 3
MARY ONINSKI
CITY
LOT 1 CSM 1159 DOC. NO.357387 V.7, P.170
VOLK'S 2ND ADDITION TO VOLK'S PLAT BLOCK 4
RICHARD A. REIMER & DEBRA S. REIMER
JAMIE NELSON
RAYMOND M. TABAR & APRIL L. TABAR
RICKE T. SMITH
CONSTANCE GAUTHIER'S ADDITION - BLOCK 1
GEORGE W. VOLK'S ADDITION TO OCONTO FALLS BLOCK 1
OCONTO FALLS
STH 22
UNION AVE.
S. CHESTNUT AVE.
COLUMBIA ST.
1/16 LINE
1/4 LINE
SLOPE INTERCEPT
STA. 21+43.03 STH 22 = STA. 10+00.00 COLUMBIA ST.
STA. PI: 21+39.15 STH 22 = STA. 8+09.30 S. CHESTNUT AVE.
STA. PT: 22+99.28 STH 22 = STA. 10+00.00 S. CHESTNUT AVE.
1/4 LINE IS 0.07' LT. OF RL AT PT
P.K. NAIL
Y = 175719.23
X = 540946.84
4" IRON PIPE FILLED WITH CONCRETE
Y = 173082.81
X = 540877.29
NE-NW
SW-NE
NW-NE
SE-NW
T 28 N R 19 E S 25
T 28 N R 19 E S 24 25

REVISION DATE 9/22/2014	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.14
	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET 136 E

HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (S. CHESTNUT AVE.)	ASSESSOR'S PLAT OF THE NE 1/4 OF THE NW 1/4 OF SECTION 25, TOWNSHIP 28 NORTH, RANGE 19 EAST		WEST 33'
STH 22 (S. CHESTNUT AVE.)	CONSTANT GAUTHIER'S ADDITION	1903	EAST 33'
PAUL ST.	CONSTANT GAUTHIER'S ADDITION	1903	60'

EXISTING MONUMENTS			
	Y	X	
I.P. 165	174827.55	541211.71	1-1/2" IRON PIPE
I.P. 166	174887.04	541213.11	1-1/2" IRON PIPE
I.P. 129	175069.98	540962.74	3/4" REBAR

NOTE:
ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

CITY

ASSESSOR'S PLAT OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 25, T28N, R19E OUTLOT 4

ASSESSOR'S PLAT OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 25, T28N, R19E OUTLOT 1

4" IRON PIPE FILLED WITH CONCRETE
Y = 173082.81
X = 540877.29

T 28 N R 19 E 25

CITY OF OCONTO FALLS

CENTURYLINK
V.687, P.375
DOC. NO.438955

P.K. NAIL
Y = 175719.23
X = 540946.84

T 28 N R 19 E 24 25

GRASS

BLDG.

SLOPE INTERCEPT

STH 22 N01°30'08"E (R/L)

STA. 26+10.43 STH 22 =
STA. 10+00.00 PAUL ST.

N 01°30'40" E 2637.33'

1/4 LINE

S. CHESTNUT AVE.

N01°30'40"E

N1°30'40"E, 278.31'

S1°30'40"W, 278.30'

S88°55'14"E 3.50'

N89°00'15"W 3.50'

SEE 9180-19-21 SHEET 4.14

SEE 9180-19-21 SHEET 4.16

P.L.

NW-NE

PAUL ST.

60'

I.P. 165

I.P. 166

I.P. 129

CARLA H. BRABANT & JOHN E. BRABANT

TRAVIS R. SCHINDEL

SONDRA M. HILLBERG & MICHAEL HILLBERG

THOMAS J. MILHEISER & JILL M. MILHEISER

JODY M. MEYER

CHRISTOPHER L. KRATZ

CHAD & JANEL FALK

CONSTANCE GAUTHIER'S ADDITION BLOCK 1

CONSTANCE GAUTHIER'S ADDITION BLOCK 2

POOL

OCONTO FALLS

REVISION DATE 9/22/2014	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.15
	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET 137 E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG PLOT DATE : 11/11/2014 10:23 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (S. CHESTNUT AVE.)	ASSESSOR'S PLAT OF THE NE 1/4 OF THE NW 1/4 OF SECTION 25, TOWNSHIP 28 NORTH, RANGE 19 EAST		WEST 33'
STH 22 (S. CHESTNUT AVE.)	CALDWELL'S 4TH ADDITION	1905	WEST 33'
STH 22 (S. CHESTNUT AVE.)	CONSTANT GAUTHIER'S ADDITION	1903	EAST 33'
GROVE ST.	CONSTANT GAUTHIER'S ADDITION	1903	60'
MONROE ST.	CALDWELL'S 4TH ADDITION	1905	60'

NOTE:
ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

EXISTING MONUMENTS			
	Y	X	
I.P. 164	175431.96	540786.21	1" IRON PIPE

ASSESSOR'S PLAT OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 25, T28N, R19E
OUTLOT 1

CITY

OCONTO FALLS

4" IRON PIPE FILLED WITH CONCRETE
Y = 173082.81
X = 540877.29

T 28 N R 19 E 25

P.K. NAIL
Y = 175719.23
X = 540946.84

T 28 N R 19 E 24 25

CENTURYLINK
V.687, P.375
DOC. NO.438955

CENTURYLINK
V.687, P.370
DOC. NO.438952

CENTURYLINK
V.687, P.366
DOC. NO.438950

CENTURYLINK
V.687, P.364
DOC. NO.438949

CENTURYLINK
V.687, P.368
DOC. NO.438951

CALDWELL'S FOURTH ADDITION
BLOCK 13

CALDWELL'S FOURTH ADDITION
BLOCK 14

CONSTANCE GAUTHIER'S ADDITION
BLOCK 2

CONSTANCE GAUTHIER'S ADDITION
TO OCONTO FALLS
BLOCK 3

ADAM ADLER
JOHN DUAME & YVONNE DUAME
MERCER INVESTMENTS, LLC
WILLIAM T. BASCH
MATHEW M. MCCONNELL
MARGARET A. WILLIAMS
WALTER FISCHER & SANDRA FISCHER
FALTON FISCHER, JR. & DONA FISCHER

CANOPY

STH 22
S. CHESTNUT AVE.
MONROE ST.
GROVE ST.
NE-NW
NW-NE

STA. 30+89.86 STH 22 = STA. 10+00.00 GROVE ST.
STA. 32+08.69 STH 22 = STA. 10+00.00 MONROE ST.

1/4 LINE N01°30'40"E 2637.33'
N01°30'08"E (R/L)
S89°17'44"E (R/L)
N89°28'17"W

SEE SHEET 4.15 9180-19-21
SEE SHEET 4.17 9180-19-21

REVISION DATE			
9/22/2014			

DATE 4-17-2014
GRID FACTOR

SCALE, FEET
0 20 40

HWY: 22
COUNTY: OCONTO

STATE R/W PROJECT NUMBER 9180-19-21
CONSTRUCTION PROJECT NUMBER 9180-19-71

PLAT SHEET 4.16
PS&E SHEET 138

E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG
PLOT DATE : 11/11/2014 10:30 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

EXISTING MONUMENTS			
	Y	X	
I.P. 130	175709.50	540979.43	1"IRON PIPE
I.P. 148	175785.70	540915.33	1"IRON PIPE
I.P. 131	175941.47	540984.84	1"IRON PIPE
I.P. 147	176040.49	540920.96	2" IRON PIPE
I.P. 146	176100.40	540922.25	2" IRON PIPE

4" IRON PIPE FILLED WITH CONCRETE
Y = 175760.17
X = 538309.38

NE-NW

SECTION LINE N 89°06'39" W 2637.77'

P.K. NAIL
Y = 175719.23
X = 540946.84
STA.34+68.06,
0.13' RT.

ESCANABA & LAKE SUPERIOR RAILROAD COMPANY

GRASS

SLOPE INTERCEPT

PI: 34+62.00
Y = 175713.25
X = 540946.57

N01°30'08"E (R/L)

1/4 LINE N01°30'40"E 2637.33'

QUINCY ST.

CITY OF OCONTO

KAUFMANN'S PLAT BLOCK 1

BLDG.

PEITERSEN RENTALS LLP

OF

JACKSON ST.

REF. LINE/SEC. LINE INT.
STA. 35+50.84

STA. 35+00.84 STH 22 =
STA. 10+00.00 QUINCY ST.

STH 22

N01°09'42"E 2652.31' 1/4 LINE

STA. 38+16.78 STH 22 =
STA. 10+00.00 JACKSON ST.

N01°15'14"E (R/L)

KAUFMANN'S PLAT NO. 2 BLOCK 6

B&G MAIN STREET INVESTMENTS, LLC.

S. CHESTNUT AVE.

SLOPE INTERCEPT

NOTE:
ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

SEE 9180-19-21 SHEET 4.16

SEE 9180-19-21 SHEET 4.18

LOT 1
CSM 1369
DOC. NO.375812
V.9, P.25

JEFFERY COOPMAN
AND
VICTORIA COOPMAN

CENTURYLINK
V.687, P.362
DOC. NO.438948

GAP AS INDICATED ON CSM 1369

SECTION LINE N89°03'14"W 2644.76'

NW-NE

P.K. NAIL
Y = 175675.55
X = 543591.24

P.L.E. DRAINAGE

A/C

JAMES P. MCCLURE

LOT 1
CSM 2100
DOC. NO.418463
V.12, P.198

CITY OF OCONTO FALLS
STORM SEWER,
POTABLE WATER,
SANITARY SEWER,
ELECTRICAL AND
BROADBAND
COMMUNICATION
SERVICES
V.675, P.665
DOC. NO.433158

CENTURYLINK
V.687, P.361
DOC. NO.438947

R.R. SPIKE
Y = 178370.99
X = 541000.61

CITY OF OCONTO FALLS

SW-SE

PLEASANT VIEW ESTATES

OCONTO FALLS

HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (S. CHESTNUT AVE.)	KAUFMANNS PLAT	1902	WEST 33'
STH 22 (S. CHESTNUT AVE.)	KAUFMANNS PLAT NO.2	1904	WEST 33'
STH 22 (S. CHESTNUT AVE.)	PLEASANT VIEW ESTATES	1904	EAST 33'
QUINCY ST.	KAUFMANNS PLAT	1902	60'
JACKSON ST. (WEST SIDE)	KAUFMANNS PLAT	1902	60'
JACKSON ST. (EAST SIDE)	CSM NO. 2100	1994	60'

REVISION DATE 9/22/2014 NC	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.17	
	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET -- 139	E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG PLOT DATE : 9/22/2014 1:48 PM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

EXISTING MONUMENTS			
	Y	X	
I.P. 132	176356.02	540993.12	1" IRON PIPE
I.P. 145	176355.29	540927.56	2" IRON PIPE
I.P. 144	176415.43	540929.04	2" IRON PIPE
I.P. 133	176502.13	540997.63	1" IRON PIPE

NOTE:
ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

CITY

KAUFMANN'S PLAT NO. 2
BLOCK 6

KAUFMANN'S PLAT NO. 2
BLOCK 7

OF

OCONTO FALLS

P.L.

BLDG.

BLDG.

60'

SAN

HWY

S89°05'51"E (R/L)

N89°11'39"W

N89°11'39"W

VAN BUREN ST.

SE-SW

SW-SE

WALTER GONDECK, JR.

96

9

10

1

2

3

4

SLOPE INTERCEPT

7'

5'

30.03'

I.P. 145

I.P. 144

I.P. 132

I.P. 133

N01°09'42"E

N 01°09'42" E 2652.31' 1/4 LINE

NO1°15'14"E (R/L)

99'

40

STH 22

S. CHESTNUT AVE.

STA. 41+32.15 STH 22 =
STA. 10+00.00 VAN BUREN ST.

SHEET 4.17

SHEET 4.19

SEE 9180-19-21

SEE 9180-19-21

P.K. NAIL
Y = 175719.23
X = 540946.84

R.R. SPIKE
Y = 178370.99
X = 541000.61

T 28 N
R 19 E
23 24

T 28 N
R 19 E
24

375 40+43.45 40.79'

376 40+83.50 33.79'

377 40+98.46 33.88'

378 41+03.23 63.88'

379 41+03.23 63.92'

380 49+03.46 33.89'

152 CENTURYLINK
V.687, P.361
DOC. NO.438947

94 CITY OF OCONTO FALLS

CITY OF OCONTO FALLS
STORM SEWER,
POTABLE WATER,
SANITARY SEWER,
ELECTRICAL AND
BROADBAND
COMMUNICATION
SERVICES
V.675, P.665
DOC. NO.433158

PLEASANT VIEW ESTATES

152 CENTURYLINK
V.637, P.359
DOC. NO.438946

GRASS

CITY OF OCONTO FALLS
STORM SEWER,
POTABLE WATER,
SANITARY SEWER,
NATURAL GAS AND
TELEPHONE SERVICE
V.657, P.542
DOC. NO.423602

97 KINGDOM HALL OF JEHOVAH'S WITNESSES,
OCONTO FALLS CONGREGATION, INC.

LOT 1
CSM 987
DOC. 338017
V.6, P.24

152 CENTURYLINK
V.687, P.357
DOC. NO.438945

98 THE PESTIGO NATIONAL BANK

LOT 1
CSM 4178
DOC. 603510
V.31, P.5

CITY OF OCONTO FALLS
STORM SEWER,
V.657, P.540
DOC. NO.423601

HWY	BASIS OF EXISTING R/W		WIDTH
STH 22 (S. CHESTNUT AVE.)	KAUFMANNS PLAT NO.2	1904	WEST 33'
STH 22 (S. CHESTNUT AVE.)	PLEASANT VIEW ESTATES	1904	EAST 33'
STH 22 (S. CHESTNUT AVE.)	CSM NO. 9887 & 4178	1904	EAST 33'
VAN BUREN ST.	KAUFMANNS PLAT NO.2	1904	60'

REVISION DATE 9/22/2014	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.18	
	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET 140	E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG PLOT DATE : 9/22/2014 10:31 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 75

NOTE:
ALL TEMPORARY LIMITED EASEMENTS ARE FOR DRAINAGE PURPOSES.

HWY	BASIS OF EXISTING R/W	WIDTH
STH 22 (S. CHESTNUT AVE.)	KAUFMANNS PLAT NO.2 1904	WEST 33'
STH 22 (S. CHESTNUT AVE.)	CSM NO. 4178 2007	66'
E. HIGHLAND DR. (EAST SIDE)	CSM NO. 2631 & DEDICATION MADE BY PLAT OF SURVEY MAP NO. 184 1997&2001	VARIES
E. HIGHLAND DR. (WEST SIDE)		

EXISTING MONUMENTS			
	Y	X	
I.P. 134	176906.07	541003.92	1" IRON PIPE
I.P. 142	177038.28	540943.27	2" IRON PIPE?
I.P. 197	177042.83	540708.20	2" IRON PIPE
I.P. 141	177138.95	540927.53	1" IRON PIPE

P.K. NAIL
Y = 175719.23
X = 540946.84

T 28 N R 19 E, SEC 24, SEC 25

CITY

KAUFMANN'S PLAT NO.2
BLOCK 7

MARK D. MORTELL (99)

DREWS FAMILY REVOCABLE TRUST (100)

KRIST OIL COMPANY, INC. (101)

CANOPY

G.P.

I.P. 197

1/16 LINE

E. HIGHLAND DR.

SLOPE INTERCEPT

I.P. 141

I.P. 142

FLAG

WEISS LIVING TRUST (104)

OCONTO ELECTRIC COOPERATIVE (151)
V.162, P.40
DOC. NO.155643
V.323, P.474
DOC. NO.248603

R.R. SPIKE
Y = 178370.99
X = 541000.61

STA. PI:48+32.90 STH 22 =
Y = 177083.82
X = 540976.58
STA. 10+00.00 E. HIGHLAND DR.(WEST)

STA. 48+29.88 STH 22 =
STA. 10+00.00 HIGHLAND DR. (EAST)

N01°15'14"E (R/L) S. CHESTNUT AVE.

STH 22

N 01°09'42" E 2652.31'

1/4 LINE

PC: 49+88.66

END RELOCATION ORDER
STA. 49+88.66
Y = 177239.49
X = 540981.79

CITY OF OCONTO FALLS
STORM SEWER
V.657, P.540
DOC. NO.423601

CENTURYLINK
V.687, P.357
DOC. NO.438945

WE ENERGIES
V.349, P.459
DOC. NO.257865

CENTURYLINK
V.687, P.355
DOC. NO.438944

OCONTO ELECTRIC COOPERATIVE
V.162, P.147
DOC. NO.155367

CENTURYLINK
V.687, P.353
DOC. NO.438943

THE PESHTIGO NATIONAL BANK (98)

VAUGHN A. SPAULDING
AND
LINDA M. SPAULDING (102)

ALAN & RITA M. GARBRECHT (103)

LOT 1
CSM 4178
DOC. 603510
V.31, P.5

ASSESSOR'S PLAT OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4, SECTION 24, T28N, R19E OUTLOT 2

CURVE P102
L. = 21.32'
L.C. = 20.89'
L.C.B. = S21°16'38"W
R. = 30.50'

CURVE P103
L. = 18.89'
L.C. = 17.00'
L.C.B. = N43°56'16"W
R. = 12.00'

PI STA = 61+09.54
Y = 178359.75
X = 541019.30
DELTA = 88°43'50"
D = 4°59'59"
T = 1120.89
L = 1774.74
R = 1146.00
PC STA = 49+88.66
PT STA = 67+63.40

OCONTO FALLS

SEE 9180-19-21 SHEET 4.18

SEE 9180-19-21 SHEET 4.19

REVISION DATE	DATE 4-17-2014	SCALE, FEET 0 20 40	HWY: 22	STATE R/W PROJECT NUMBER 9180-19-21	PLAT SHEET 4.19	
9/22/2014	GRID FACTOR		COUNTY: OCONTO	CONSTRUCTION PROJECT NUMBER 9180-19-71	PS&E SHEET -- 141	E

FILE NAME : P:\2013 PROJECTS\2013097 - STH 22 PLAT (9180-19-00 PLAT)\AUTOCAD\PLAT\RW_SHEETS.DWG PLOT DATE : 9/22/2014 10:30 AM PLOT BY : BERNARD GEHRMANN PLOT NAME : PLOT SCALE : 0.015631

WISDOT/CADDS SHEET 75

BEGIN PROJECT 9180-19-71
BEGIN PAVEMENT REPAIR
STA. 420+00
Y=176674.176
X=537064.268

PT: 420+77.30

EXISTING R/W

5

5

419 420 421 422 423 424 425

STH 22

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.
ADJUST INLET COVER

EXISTING R/W

BURIED GAS LINE
APPROXIMATE LOCATION

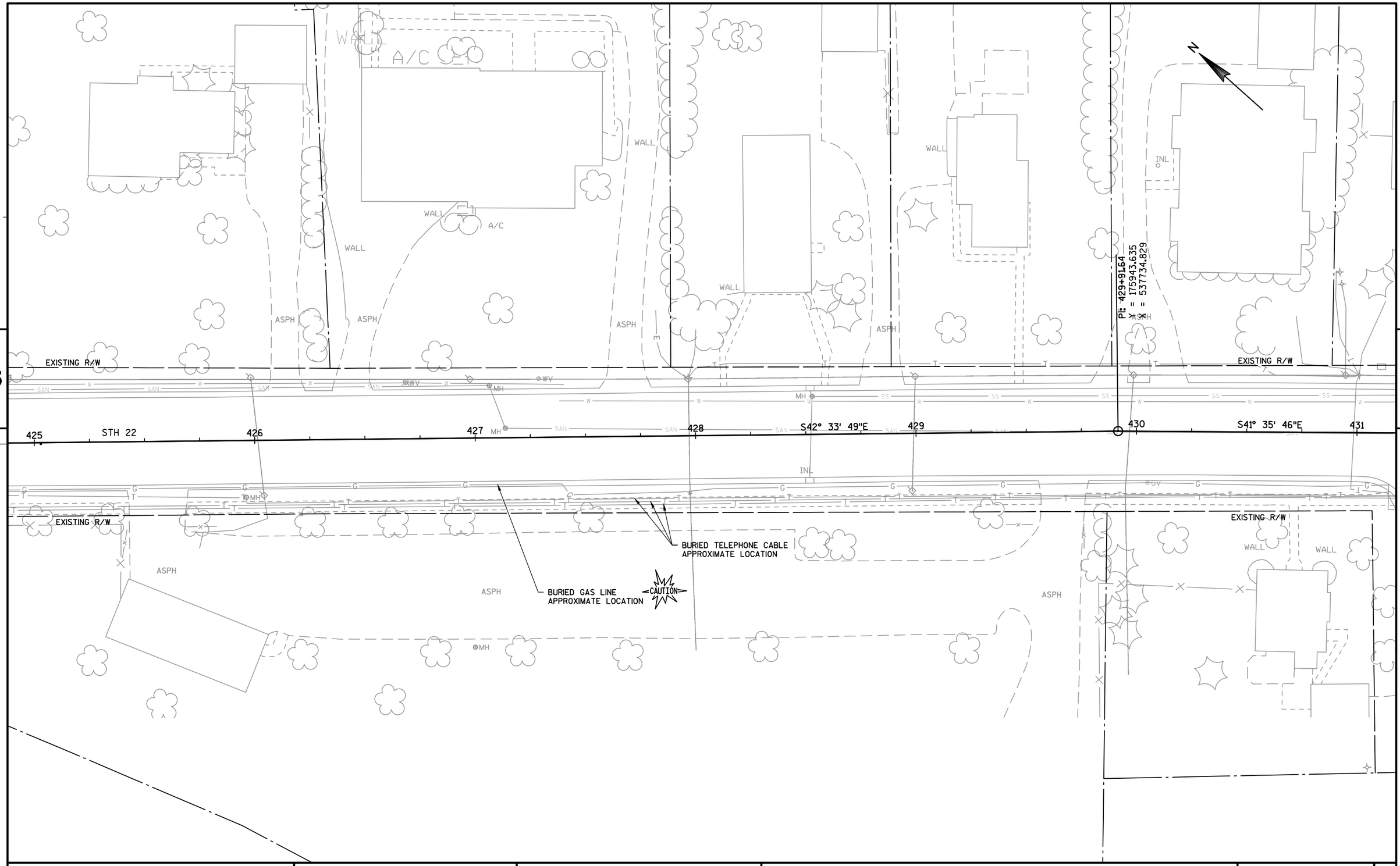
CAUTION

BURIED TELEPHONE CABLE
APPROXIMATE LOCATION

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050202_PN.DWG PLOT DATE : 1/9/2015 10:34 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050203_PN.DWG PLOT DATE : 1/9/2015 10:35 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

5

5

CONC

ASPH

CANOPY

RUINS

ASPH

ASPH

EXISTING R/W

EXISTING R/W

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)

MH

INL

WV

431

STH 22

432

433

S41° 35' 46"E

434

435

436

437

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.
ADJUST INLET COVER

SAW CUT
REQ'D

WILLIAMS ST.

EXISTING R/W

CURB RAMP
TYPE 4B1 REQ'D

SAW CUT
REQ'D

CURB RAMP
TYPE 4B1 REQ'D

EXISTING R/W

ASPH

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)
3 LINES

SAW CUT
REQUIRED

CURB RAMP
TYPE 4B1 REQ'D

JOHN ST.

EXISTING R/W

SAW CUT
REQUIRED

CURB RAMP
TYPE 4B1 REQ'D

ASPH

EXISTING R/W

BURIED GAS LINE
APPROXIMATE LOCATION

CAUTION

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050204_PN.DWG PLOT DATE : 1/9/2015 10:35 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

PI STA = 438+50.30
Y = 175301.490
X = 538304.873
DELTA = 5°04'23"
D = 4°59'02"
T = 50.93'
L = 101.79'
R = 1149.63'
PC STA = 437+99.37
PT STA = 439+01.16

EP: 11+89.95

BURIED GAS LINE APPROXIMATE LOCATION
CAUTION
EXISTING R/W
MARKET ST.
REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D. ADJUST INLET COVER
BURIED GAS LINE APPROXIMATE LOCATION
CAUTION
REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D. ADJUST INLET COVER
PT: 439+01.16
PC: 437+99.37
CURB RAMP TYPE 4B REQ'D
PEDESTRIAN CURB REQ'D
SAW CUT REQ'D
CURB RAMP TYPE 2 REQ'D
SAW CUT REQ'D
ASPH
EXISTING R/W
CHERRY AVE.
EXISTING R/W
N45° 55' 14"E
11
PI: 10+62.53
N50° 16' 36"E
BURIED GAS LINE APPROXIMATE LOCATION
CAUTION
WALL
BURIED ELECTRIC APPROXIMATE LOCATION
EXISTING R/W
STH 22
437
438
439
440
441
442
443
S41° 35' 46"E
CURB RAMP TYPE 1A REQ'D
CURB RAMP TYPE 1A REQ'D
REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D. ADJUST INLET COVER
EXISTING R/W
SAW CUT REQ'D
SAW CUT REQ'D
END PAVEMENT REPAIR
BEGIN RECONSTRUCTION
STA. 440+91.00
Y=175108.049
X=538448.133
ASPH
ASPH
ASPH
BURIED ELECTRIC APPROXIMATE LOCATION
EXISTING R/W
BURIED FIBER OPTIC APPROXIMATE LOCATION
BURIED TELEPHONE CABLE APPROXIMATE LOCATION
BURIED FIBER OPTIC APPROXIMATE LOCATION
EXISTING R/W
N. MAPLE AVE.

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050205_PN.DWG PLOT DATE : 1/9/2015 10:36 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
700	441+74	CH SQUARE NE SIDE OF LP-31' RT	736.96

PAVING LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT

CONSTRUCTION LIMITS STA. 10+75CY

PI STA. 10+62.53CY
X=175092.446
Y=538537.379

CHERRY AVE. N45°55'41"E 11CY

EXISTING R/W

DONALD AND SHIRLEY PETERSON

CONCRETE SIDEWALK 4-INCH REQ'D.

441+21.0 37' LT. 20' R.

TLE LINE

ASPH

439 STH 22 440 S36° 31' 23"E 441 442 443 444 445

N50°16'45"E 10CY

NOTE: SEE PLAN DETAIL FOR STH 22/CHERRY STREET INTERSECTION LAYOUT AND GRADES.

ST. ANTHONY'S CONGREGATION

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.
CONCRETE SIDEWALK 4-INCH REQ'D.

REMOVE AND REPLACE FENCE
441+95.1 37' LT. 20' R.

BEGIN RETAINING WALL STA. 442+90

RETAINING WALL REQUIRED
REMOVE AND REPLACE FENCE
REMOVE RETAINING WALL

SLOPE INTERCEPTS

END RETAINING WALL STA. 443+65

RANDEL G. DIETZE

BURIED GAS LINE APPROXIMATE LOCATION
BURIED ELECTRIC APPROXIMATE LOCATION

CAUTION

MICHAEL T. AND MARY G. SHOMIN

REMOVE AND REPLACE FENCE

R/W LINE

P.L.

21.5' 11' 11' 21.5' 8.5' 8.5'

(REM.) (ADJ.) (REMOVE) INL

735.78 736.00 736.04 735.82 736.26 736.29 736.09 736.51 736.62 736.52 736.73 736.72 736.88 737.09 736.95 737.31 737.09 737.44 737.66 737.80 738.02 738.16 738.38 737.23 737.59 737.95 738.23 738.40 738.51 738.73 738.30 738.66 738.87 739.09

BM#700

END PAVEMENT REPAIR
BEGIN RECONSTRUCTION
STA. 440+91
Y = 175108.049
X = 538448.133

CONCRETE SIDEWALK 4-INCH REQ'D.
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

STA. 441+60.09 STH 22=
STA. 10+00.00CY CHERRY AVE.
Y = 175052.483
X = 538449.284

NOTE: SEE LANDSCAPING PLAN

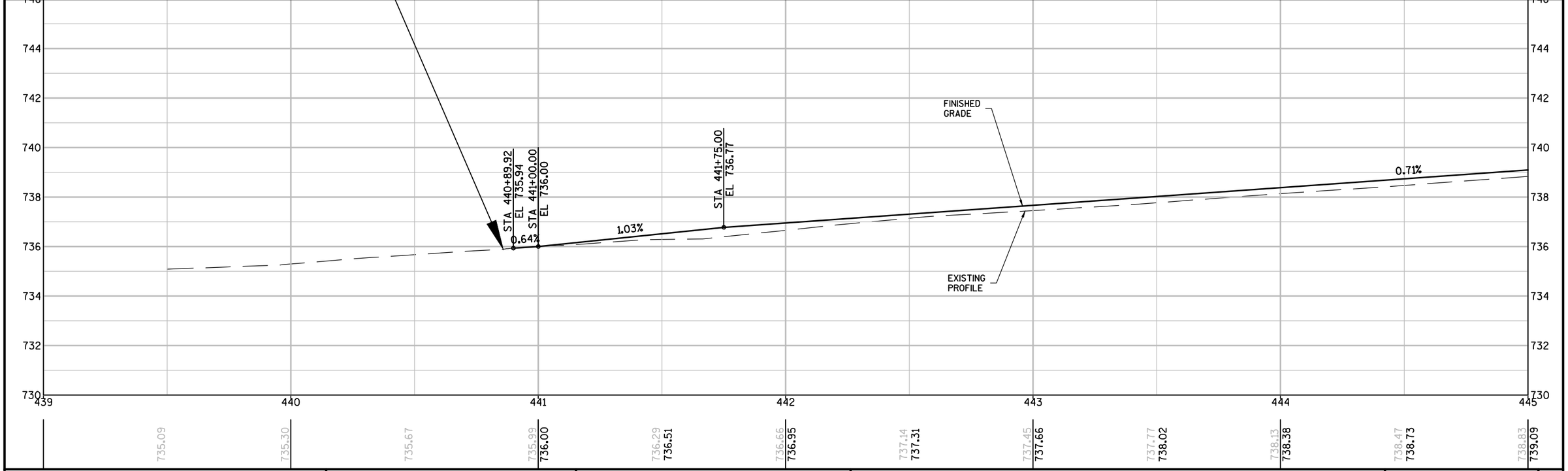
BURIED ELECTRIC APPROXIMATE LOCATION

SLOPE INTERCEPTS

CITY OF OCONTO FALLS

OH

5



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050101_PP.DWG PLOT DATE : 1/9/2015 10:43 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
701	448+77	CH SQ. W COR CONC PORCH-36'LT	743.36

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT

DO NOT DISTURB PLANTER
DO NOT DISTURB PLANTER

MICHAEL T. AND MARY C. SHOMIN

JAMES L. AND SANDRA J. HANSEN, VENDORS
MATTHEW AND MELANIE RICE, PURCHASER

PI STA. 448+43.54 STH 22=
Y=174583.614
X=538836.522

BURIED ELECTRIC APPROXIMATE LOCATION
CONCRETE SIDEWALK 4-INCH REQ'D.

RONALD AND LOUISE MAGEE
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

SLOPE INTERCEPTS

JAKE D. MANTHEY

CONSTRUCTION LIMITS
STA. 10+45CD

448+18.2
38.5' LT
15' R

CALDWELL AVE.

LEE C. AND CHRISTINA L. SCHMIDT

STA. 448+48.87 STH 22=
STA. 10+00.00CD CALDWELL AVE.
Y=174494.987
X=538893.451

448+80.3
38.5' LT
15' R

BM*701

MICHAEL L. KALLIES
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

MARK AND PAULA DICKINSON
CONCRETE SIDEWALK 4-INCH REQ'D.
SLOPE INTERCEPTS

MICHAEL J. BAUMGARDT SR.

EXISTING R/W
TLE LINE
(REMOVE)
(ADJ.)
(REM.)
STH 22
S36° 31' 23"E
S32° 42' 53"E
445
446
447
448
449
450
451
8.5'
11.0'
21.5'

SALVAGE PAVERS

NOTE:
LANDSCAPING AREA

448+21.3
33.5' RT.
10' R

STA. 448+48.29 STH 22=
STA. 10+00.00CD CALDWELL AVE.
Y=174495.476
X=538893.137

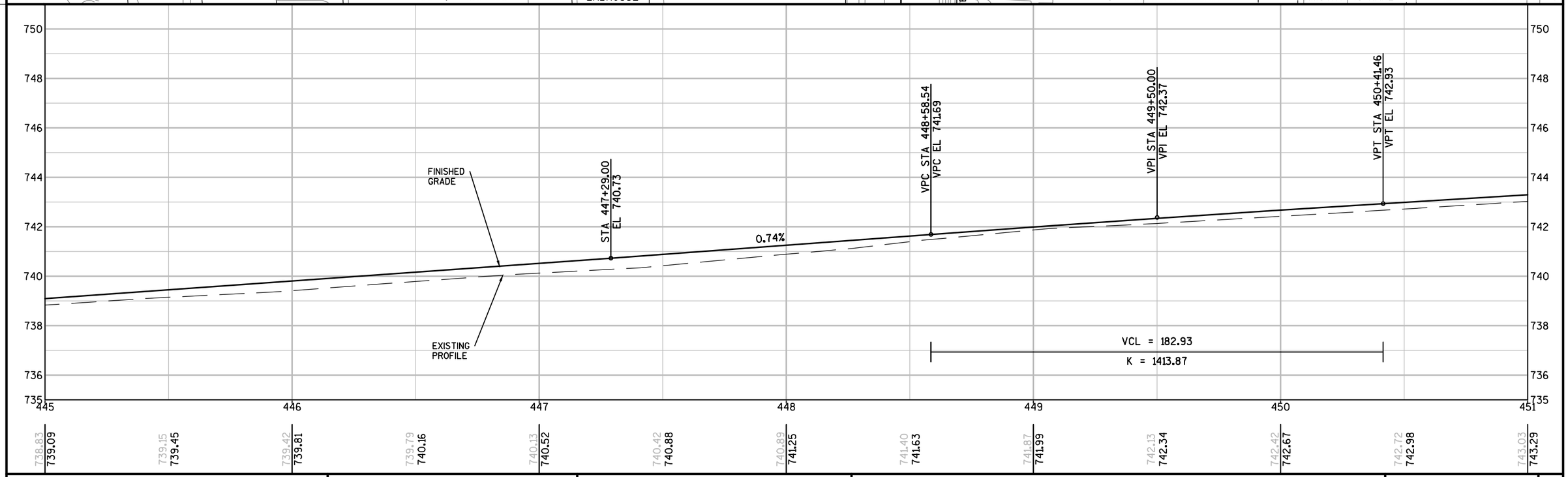
448+76.0
33.5' RT
10' R

CONSTRUCTION LIMITS
STA. 9+61CD

CONCRETE SIDEWALK 4-INCH REQ'D.
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

BUILDING
CABC
ASPH
CONC
WALL
SIGN
MH
WV
SS
SAN
INL
P.L.

CITY OF OCONTO FALLS
SHANE SENN
WILLIAM J. AND MARLENE J. KLUSSENDORF
TERRENCE J. BECK
LYLE AND LILA WOLFF, TRUSTEES
WILLIAM A. LABROSSE
CITY OF OCONTO FALLS
GWIDT RENTALS LLC
BART G. MAGNIN
BEAM CHEMICAL CO.
DOREEN M. SENN AND TIMOTHY V. KARL
RONALD DAMMON REVOCABLE TRUST



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET 147 E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050102_PP.DWG PLOT DATE : 1/9/2015 10:45 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

DEBRA C. LOLLEY VENDEE
LESLIE AND SHIRLEY VORPAHL VENDOR

RICHARD T. KUEHN

MARK S. AND KATHY L. MICOLEY

ASSOCIATED BANK, GREEN BAY

TODD AND KATE DANIELS VENDEE
RICHARD M. HELSTAD VENDOR

JOHN AND BARBARA SALSCHEIDER

LAUREL K. LANGLEY

RICHARD L. BLASER

JASON AND MICHELLE R. BOOR

BRAD G. THOMPSON

NICHOLAS AND SANDRA VANHAREN

NOTE:
SEE PLAN DETAIL FOR STH 22/CENTRAL AVE. INTERSECTION LAYOUT.

CONSTRUCTION LIMITS
STA. 10+65CN

PI STA. 10+51.56CN CENTRAL AVE.
Y=173968.399
X=539292.979

STA. 455+07.58 STH 22=
STA. 10+00.00CN CENTRAL AVE.
Y=173940.770
X=539249.451

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

SLOPE INTERCEPTS

BURIED ELECTRIC APPROXIMATE LOCATION

REMOVE BOLLARDS

TLE LINE

EXISTING R/W

INL (REMOVE)

(ADJ.)

(REMOVE)

(REM.)

742.86 743.05 743.39 743.66 743.92 744.27 744.68
743.07 743.38 743.69 743.99 744.30 744.57 744.78 744.93
451 452 453 454 455
743.29 743.60 743.91 744.21 744.52 744.79 745.00 745.15 745.08
743.07 743.38 743.69 743.99 744.30 744.57 744.78 744.93 745.30
742.88 743.23 743.33 743.68 743.91 744.21 744.47 745.08

745.55 747.51 749.75
746.06 747.72 749.97
456 457
746.39 747.94 750.19
746.28 747.72 749.97
746.05 747.51 749.76
745.32 745.54 745.33

8.5' 21.5' 11' 15.0' 5.0'

STH 22

RONALD DAMMON REVOCABLE TRUST

CAROL AND SHIRLEY MANIKOWSKI

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
702	455+35	CH SQ. ON RET. WALL-85'RT	744.60

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT

WITT, INC.

STA. 445+06.75 STH 22=
STA. 10+00.00CN CENTRAL AVE.
Y=173941.468
X=539249.003

CONSTRUCTION LIMITS
STA. 9+35CN

THOMAS J. AND JANICE L. GRISETO

PI STA. 9+58.36CN CENTRAL AVE.
Y=173919.090
X=539213.891

BM*702

ROBERT E. SHELLMAN

BEGIN RETAINING WALL STA. 456+30

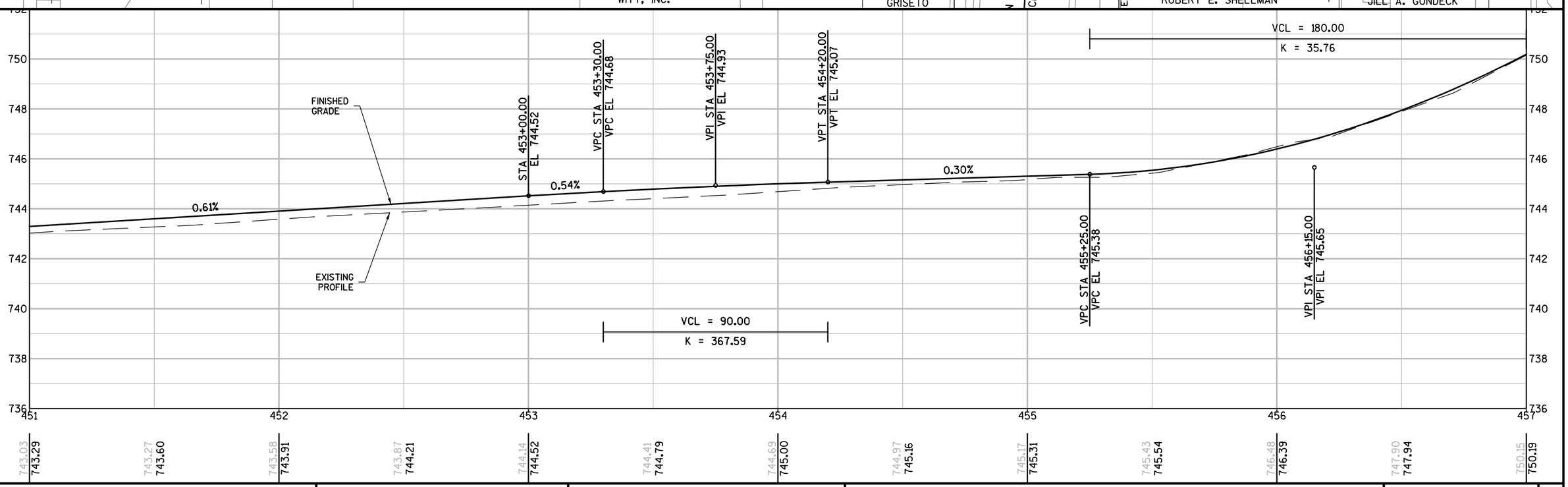
RETAINING WALL REQUIRED

JILL A. GONDECK

CENTRAL AVE.

10CN

5



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET 148 E

ANTHONY J. UTSCHIG

HARRY S. AND JANICE M. KLATIEWICZ

CRAIG R. AND SUE A. SPANG

JASON D. AND CHRISTY L. SAFIAN

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

BURIED ELECTRIC APPROXIMATE LOCATION

SLOPE INTERCEPTS

459+72.8 81.5' LT 58' R

5+49.8 42' RT 15' R

TLE LINE

EXISTING R/W

R/W LINE

CONSTRUCTION LIMITS STA. 9+45MA

STH 22

S32° 42' 53"E

N57° 14' 35"E

MAIN ST.

457 458 459 460

215'

749.76 752.10 753.64 754.39 754.38 754.27 753.95 753.43 753.73 753.91 753.58 753.21 752.96 752.70 752.85 752.96 753.20 752.90

749.97 752.31 753.85 754.60 754.59 754.37 754.08 754.14 753.90 753.16 753.11 753.08 754.17

750.19 752.53 754.07 754.82 754.81 754.59 754.38 753.95 753.74 753.60 753.17 753.51

749.97 752.31 753.85 754.60 754.59 754.37 754.16 753.95

749.76 752.10 753.64 754.39 754.38 754.16 753.95

(ADJ.) 10MA 9MA 8MA

STEPS

SLOPE INTERCEPTS

RETAINING WALL REQUIRED

END RETAINING WALL STA. 457+56

CAUTION BURIED GAS LINE APPROXIMATE LOCATION

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

BURIED ELECTRIC APPROXIMATE LOCATION

BEGIN RETAINING WALL STA. 460+02

RETAINING WALL REQUIRED

EP: 10+00.00

PI: 10+00.00

PI: 9+31.37 Y=173426.776 X=5395579.605

END RETAINING WALL STA. 9+95.7 MAIN ST. 42.5' LT.

STA. 460+49.85 STH 22 BK.= STA. 5+14.30 STH 22 AH.= STA. 10+00.00MA MAIN ST. Y=173484.521 X=539542.522

EQUATION

BP: 7+72.00

CORY R. GRAHAM AND CORINA M. ZABEL

DANIEL J. JR. AND KELLY F. TEMPLE

ROBERT M. AND PATRICIA S. CARNEY

DUANE L. AND BRIAN M. BREHMER

RICHARD B. AND RENEE C. LEMKE

PAUL L. KINDEL

ALAN F. AND LAURA K. KAISER

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT

5 5

VCL = 180.00
K = 35.76

VPI STA 457+95.00
VPI EL 755.25

VPT STA 458+85.00
VPT EL 754.87

FINISHED GRADE

EXISTING PROFILE

VPC STA 460+49.55
VPC EL 754.17

VPI STA 5+64.00
VPI EL 753.96

VPT STA 6+14.00
VPT EL 752.93

VCL = 100.00
K = 62.03

VPC STA 457+05.00
VPC EL 750.45

3.3%

VPT STA 457+05.00
VPT EL 750.45

VCL = 180.00
K = 31.27

-0.42%

VCL = 100.00
K = 61.18

-2.06%

VPC STA 7+24.00
VPC EL 750.67

758 756 754 752 750 748 746 744

457 458 459 460 6 7 7

750.15 750.19 752.45 752.53 754.04 754.07 754.62 754.82 754.62 754.81 754.53 754.59 754.37 754.38 5+14.30 754.17 754.38 753.91 753.73 753.20 752.55 752.19 751.54 751.16 750.78 750.19 750.57 749.96

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050104_PP.DWG PLOT DATE : 1/9/2015 10:47 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

CONCRETE SIDEWALK 4-INCH REQ'D.
RICHARD B. AND RENEE G. LEMKE
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.
SLOPE INTERCEPTS
P.L.
BEGIN RETAINING WALL STA. 460+02
RETAINING WALL REQUIRED
PAUL L. KINDEL
END RETAINING WALL STA. 9+95.7MA MAIN ST. 42.5' LT.
ALAN F. AND LAURA K. KAISER
PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT
CONSTRUCTION LIMITS STA. 9+45MA
CAUTION
BURIED GAS LINE APPROXIMATE LOCATION
10MA MAIN ST.
459+72.8 81.5' LT 58' R
CRAIG R. AND SUE A. SPANG
S32° 42' 53"E
753.95
753.43
754.14
753.73
752.90
752.85
751.85
753.91
753.20
752.95
751.95
753.58
752.96
751.95
753.16
753.21
752.70
751.69
753.50
753.11
753.60
753.08
753.17
754.02
754.16
754.38
754.08
753.82
753.95
754.17
460
6
N57° 14' 35"E
752.19
5+49.8 42' RT 15' R
SLOPE INTERCEPTS
CONCRETE SIDEWALK 4-INCH REQ'D.
STA. 460+49.85 STH 22=
STA. 5+14.30 STH 22=
STA. 10+00.00MA MAIN ST.
Y=173484.521
X=539542.522
EQUATION
JASON D. AND CHRISTY L. SAFIAN
WEISS RENTAL LLC
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.
STA. 8+34.39 STH 22=
STA. 10+00.00FK S. FRANKLIN ST.
Y=173657.715
X=539811.713
CONCRETE SIDEWALK 4-INCH REQ'D.
TLE LINE
EXISTING R/W
MICHAEL J. COPPENS
8+01.3 34' LT 15' R
749.58
748.97
748.78
748.96
748.79
749.18
749.57
749.33
749.07
748.84
748.54
748.69
748.68
748.61
N32° 37' 12"W
S. FRANKLIN ST.
10FK
9FK
N32° 35' 21"W
749.20
749.85
749.95
750.82
750.92
751.16
750.19
750.92
749.95
750.66
749.69
CRAIG R. AND SUE A. SPANG
MH (ADJ.)
749.01
748.40
747.45
746.44
746.18
748.46
748.14
747.19
THOMAS L. AND MURIEL J. LOTTER
CONSTRUCTION LIMITS STA. 10+55FK
BURIED GAS LINE APPROXIMATE LOCATION
SLOPE INTERCEPTS
CONCRETE SIDEWALK 4-INCH REQ'D.
8+67.55 34' LT 15' R
748.92
749.52
748.86
748.71
748.30
748.40
748.64
747.35
747.45
747.69
746.34
746.44
746.68
746.44
8+68.0 42' RT 15' R
STA. 8+35.29 STH 22=
STA. 10+00.00FK S. FRANKLIN ST.
Y=173658.201
X=539812.467
BURIED ELECTRIC APPROXIMATE LOCATION
CONCRETE SIDEWALK 4-INCH REQ'D.
BRADLEY K. SPINK
CONSTRUCTION LIMITS STA. 9+15FK
P.L.
8+02.5 42' RT 15' R
(ADJ.) BM*704
BM*704
BENCH MARKS

NO.	STATION	DESCRIPTION A/C	ELEV.
704	8+12	CH X ON BURY BOLT-43'RT	751.21

5

5

-0.42%
-2.06%
-0.45%
EXISTING PROFILE
FINISHED GRADE
VPC STA 460+49.55 VPC EL 754.17
VPI STA 5+64.00 VPI EL 753.96
VCL = 100.00 K = 61.18
VPT STA 6+14.00 VPT EL 752.93
VPC STA 7+24.00 VPC EL 750.67
VPI STA 7+74.00 VPI EL 749.64
VCL = 100.00 K = 62.03
VPC STA 8+25.00 VPC EL 749.41
VPT STA 8+24.00 VPT EL 749.42
VPI STA 8+75.00 VPI EL 749.19
VPT STA 9+25.00 VPT EL 748.19
VCL = 100.00 K = 64.11
459 460 6 7 8 9 10
754.56 754.66
754.53 754.59
754.37 754.38
5+14.30 754.17
754.38 753.91
753.73 753.20
752.55 752.19
751.54 751.16
750.78 750.19
750.17 749.57
749.72 749.25
748.96 748.64
748.08 747.69
747.10 746.68

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET 150	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
705	13+75	TOP S. COR. OF PLANTER-30' LT.	744.43
706	15+09	CH. X SW BOLT OF SIGN-37' RT.	740.84

REBECCA A. AND DONALD R. HOBBS

SLOPE INTERCEPTS

EXISTING R/W

TLE LINE

11+22.5 34' LT 15' R

(ADJ.)

743.13 742.94 (ADJ.) 743.11 743.44 (ADJ.) 743.44 743.52 743.04 742.80 (ADJ.) 742.64 742.97 742.60 (ADJ.)

743.13 743.64 743.06 743.45 742.80 (ADJ.) 742.54

746.34 746.44 745.34 745.44 744.34 744.44 743.84 746.68 745.68 744.68 (ADJ.) 746.44 745.44 744.44 745.18 746.18 744.18

10 11

STH 22

SAN OH W WV G

SLOPE INTERCEPTS

STA. 11+55.39 STH 22=
STA. 10+00.00WA S. WASHINGTON ST.
Y=173831.396
X=540081.658

11+22.1 42' RT 15' R

CAROL L. MORRISSEY

CYNTHIA A. MADER

P.L.

N32°47'49"W 11W

S. WASHINGTON ST.

IOWA

N32°20'48"W

CONSTRUCTION LIMITS
STA. 10+55WA

STA. 11+55.90 STH 22=
STA. 10+00.00WA S. WASHINGTON ST.
Y=173831.674
X=540082.089

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

WASHINGTON MIDDLE SCHOOL

11+89.4 34' RT 15' R

742.33 742.43 741.47 741.57 740.85 740.95 742.80 742.54 742.67 741.81 741.19 N57°14'35"E

742.43 741.57 740.95 742.49 742.17 741.31 740.69

11+87.4 42' RT 15' R

NICHOLAS L. AND KATHRYN D. LONDO

CONSTRUCTION LIMITS
STA. 9+25WA

KALEB M. SANTY AND BREANNA L. BALLARD

CONCRETE SIDEWALK 4-INCH REQ'D.

BURIED GAS LINE APPROXIMATE LOCATION

CAUTION

STA. 14+74.51 STH 22=
STA. 10+00.00AD ADAMS ST.
Y=174004.069
X=540350.037

SLOPE INTERCEPTS

BM*705

14+36.4 39' LT 15' R

740.35 740.45 739.85 739.95 739.47 739.41 739.05 739.45 14 740.19 739.69

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

SLOPE INTERCEPTS

14+42.7 42' RT 15' R

CHRISTY M. MEUNIER

CHAD T. TRUDELL

ADAMS ST. 11

N32°42'56"W

CONSTRUCTION LIMITS
STA. 10+60AD

P.L.

THOMAS R. AND GALYNA HICKEY

PAVING LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT

15+15.8 39' LT 15' R

739.17 739.12 738.91 739.60 739.06 (REM.) 738.89 738.96 738.68 738.73 738.35 738.46 738.70 737.86 737.96 738.20 N58°46'15"E 16 15

738.96 738.46 737.96 739.45 739.15 738.91 738.59 738.49 738.24 737.79

BM*706

738.66 738.69 739.35 738.65 738.72 739.09 738.49 738.65

15+15.9 47' RT 20' R

PI STA. 15+14.67 STH 22
Y=174025.796
X=540383.808

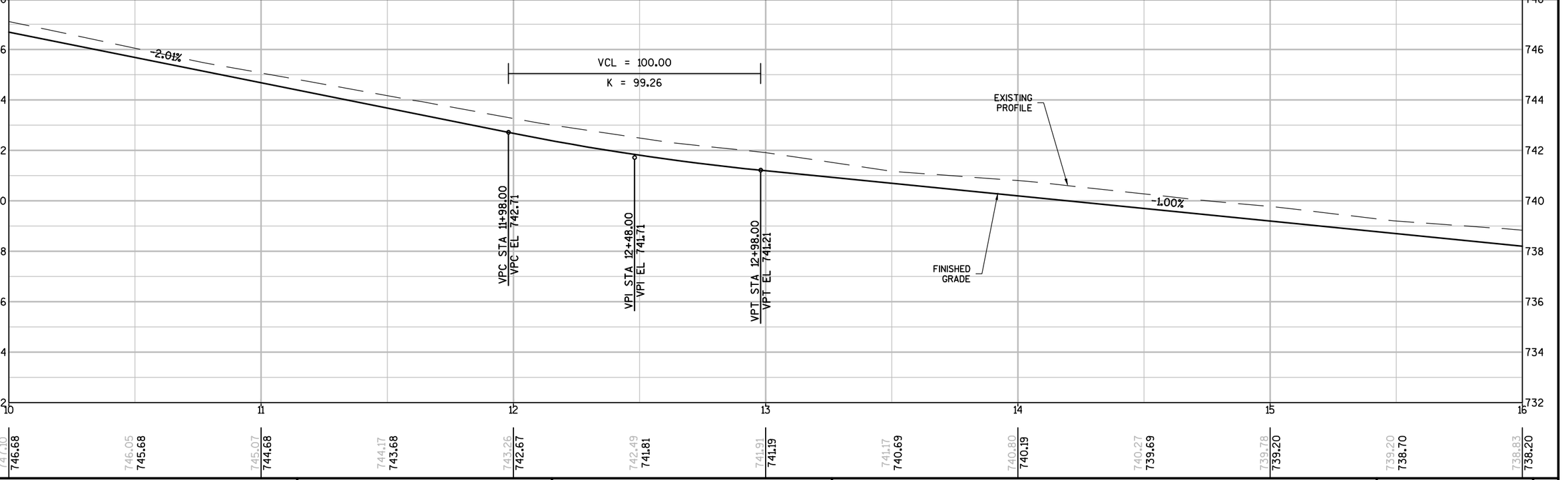
STA. 14+76.17 STH 22=
STA. 10+00.00AD ADAMS ST.
Y=174004.966
X=540351.432

CONSTRUCTION LIMITS
STA. 9+20AD

RICHARD A. MARQUARDT

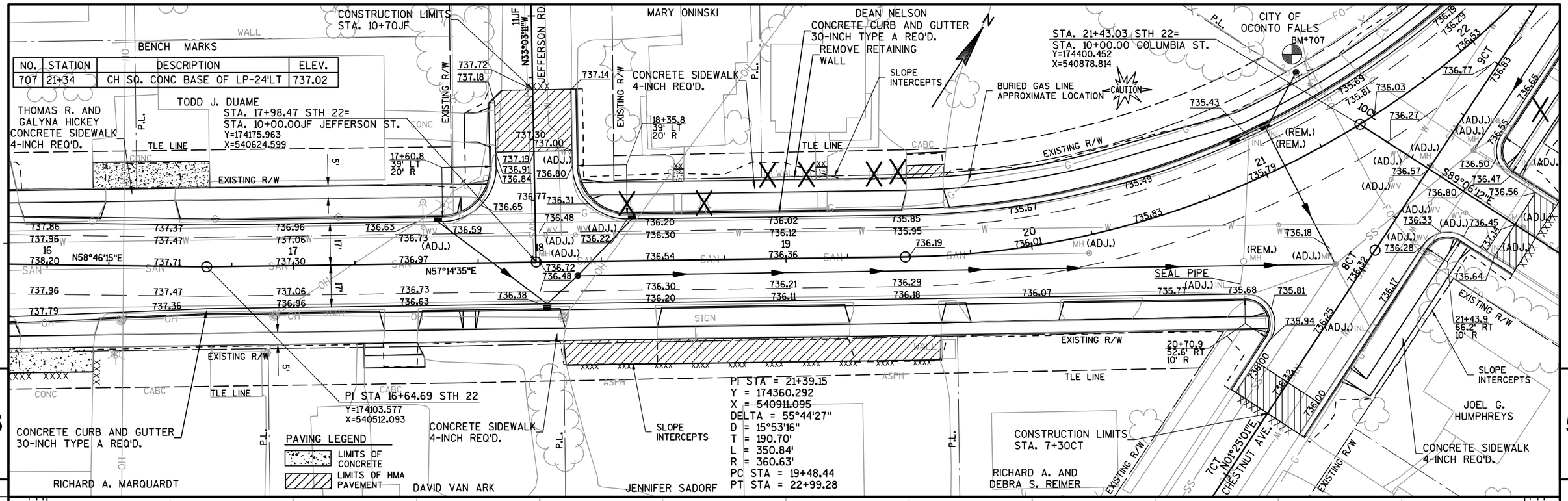
5

5



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050106_PP.DWG PLOT DATE : 1/9/2015 10:49 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PLOT: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050107_PP.DWG PLOT DATE : 1/9/2015 10:50 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

PI STA = 21+39.15
Y = 174360.292
X = 540911.095
DELTA = 55°44'27"
D = 15°53'16"
T = 190.70'
L = 350.84'
R = 360.63'
PC STA = 19+48.44
PT STA = 22+99.28

RICHARD A. AND DEBRA S. REIMER

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

EXISTING R/W

CONSTRUCTION LIMITS STA. 7+30CT

CHESTNUT AVE.

N1°27'04"E

6CT 7CT 8CT 9CT

N1°30'08"E

STA. 21+43.01 STH 22=
STA. 10+00.00CO COLUMBIA ST.
Y=174400.452
X=540878.814

BM*707

CITY OF OCONTO FALLS

STA. 22+99.28 STH 22=
STA. 10+00.00CT CHESTNUT ST.
Y=174550.931
X=540916.094

ATHLETIC FIELD

PAVING LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT

SLOPE INTERCEPTS

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

BURIED FIBER OPTIC APPROXIMATE LOCATION — CAUTION

BURIED GAS LINE APPROXIMATE LOCATION — CAUTION

EXISTING R/W

20+70.9 52.6' RT 10' R

21+43.9 66.2' RT 10' R

21+88.8 48' RT 10' R

23+09.3 21' RT 2' R

23+17.3 23' RT 2' R

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

PI STA. 8+09.30CY COLUMBIA ST.
Y=174360.292
X=540911.095

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
707	21+34	CH SQ LPM CONC BASE-24' LT.	737.02

JOEL G. HUMPHREYS

CONSTRUCTION LIMITS STA. 10+85CO

S89°06'12"E 0011

COLUMBIA ST.

EXISTING R/W

TLE LINE

R/W LINE

SLOPE INTERCEPTS

RAYMOND M. AND APRIL L. TABAR

RICKIE T. SMITH

CARLA H. AND JOHN E. BRABANT

TRAVIS R. SCHINDEL

STH 22

VCL = 150.00
K = 91.66

-0.35%

1.28%

EXISTING PROFILE

FINISHED GRADE

VPC STA 20+50.00
VPC EL 735.83

VPI STA 21+25.00
VPI EL 735.57

VPT STA 22+00.00
VPT EL 736.53

19	20	21	22	23	24	25
736.78 / 736.36	736.64 / 736.19	736.47 / 736.01	736.26 / 735.83	736.19 / 735.79	736.21 / 736.03	736.57 / 736.53	737.09 / 737.17	737.55 / 737.82	738.22 / 738.46	738.94 / 739.10	739.69 / 739.74	740.42 / 740.38

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050108_PP.DWG PLOT DATE : 1/9/2015 10:51 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
708	25+88	RR SPK IN PPOL #B26-37'RT	743.22

PAVING LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT

CITY OF OCONTO FALLS

GLORIA D. GREETAN

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

BURIED FIBER OPTIC APPROXIMATE LOCATION

BURIED GAS LINE APPROXIMATE LOCATION

CAUTION

BLEACHERS

STA. 30+89.86 STH 22=
STA. 10+00.00GR GROVE ST.
Y=175341.237
X=540936.819

REMOVE FENCE

+45 23' LT.

+85 24.5' LT.

+95 24.5' LT.

+35 27' LT.

+65 27' LT.

SLOPE INTERCEPTS

TLE LINE

EXISTING R/W

STH 22

25+45.6 23' RT 2' R

25+53.6 21' RT 2' R

25+73.3 39' RT 20' R

26+48.3 39' RT 20' R

30+48.2 44' RT 25' R

BM#708

N1°30'08"E

SLOPE INTERCEPTS

CONCRETE SIDEWALK 4-INCH REQ'D.

SONDRA M. AND MICHAEL HILLBERG

CONSTRUCTION LIMITS STA. 11+00PA

EXISTING R/W

PAUL ST.

S89°01'38"E

STA. 26+10.43 STH 22=
STA. 10+00.00PA PAUL ST.
Y=174861.972
X=540924.250

THOMAS J. AND JILL M. MILHEISER

JODY M. MEYER

CHRISTOPHER L. KRATZ

CONSTANCE L. BALLARD

WILLIAM T. BASCH

MATHEW M. MCCONNELL

MARGAET A. WILLIAMS

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONSTRUCTION LIMITS STA. 10+75GR

GROVE ST.

S89°54'44"E

P.L.

ASPH

CONC

(REM.)

VPC STA 25+25.00
VPC EL 740.70

VPI STA 27+00.00
VPI EL 742.95

VPT STA 28+75.00
VPT EL 742.25

EXISTING PROFILE

FINISHED GRADE

-0.40%

VCL = 350.00

K = 207.99

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050109_PP.DWG PLOT DATE : 1/9/2015 10:53 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

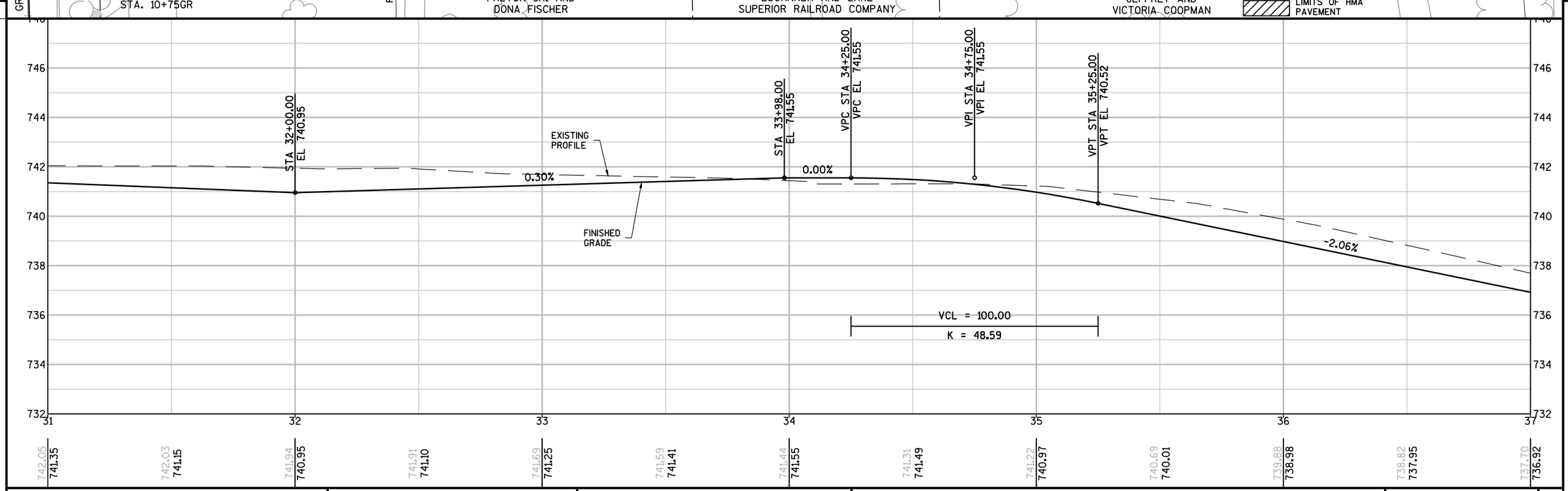
WISDOT/CADDS SHEET 44

GLORIA D. GREETAN
JOHN AND YVONNE DUAME
CONSTRUCTION LIMITS STA. 9+05MR
MERCER INVESTMENTS, LLC
CONCRETE SIDEWALK 4-INCH REQ'D.
ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY
MELVIN G. AND SHARON L. RAATZ
CONSTRUCTION LIMITS STA. 9+40QU
PETERSEN RENTALS LLP
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.
STA. 35+00.84 STH 22=
STA. 10+00.00QU QUINCY ST.
Y=175752.083
X=540947.425
BURIED GAS LINE APPROXIMATE LOCATION
STA. 32+08.74 STH 22=
STA. 10+00.00MR MONROE ST.
Y=175460.078
X=540939.935
SLOPE INTERCEPTS
BM*709
STH 22
N1°30'08"E
N1°15'14"E
MONROE ST. S89°17'44"E
QUINCY ST. S89°06'35"E
GROVE ST. S89°34'44"E
TLE LINE
31+68.5 39' LT 20' R
32+47.9 39' LT 20' R
34+60.7 39' LT 20' R
35+40.4 39' LT 20' R
31+33.2 44' RT 25' R
STA. 30+89.86 STH 22=
STA. 10+00.00GR GROVE ST.
Y=175341.237
X=540936.819
BURIED TELEPHONE APPROXIMATE LOCATION
BURIED FIBER OPTIC APPROXIMATE LOCATION
PI STA. 34+62.00 STH 22=
Y=175753.248
X=540946.575
CONCRETE SIDEWALK 4-INCH REQ'D.
CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.
WALTER AND SANDRA FISCHER
CONSTRUCTION LIMITS STA. 10+75GR
FALTON JR. AND DONA FISCHER
ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY
JEFFREY AND VICTORIA COOPMAN
EXISTING R/W
P.L.

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
709	32+46	CH X SE BOLT SIGN LEG-39'LT	741.67

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050110_PP.DWG
PLOT DATE : 1/9/2015 10:54 AM
PLOT BY : SOUFAL, KEVIN
PLOT NAME :
PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44

PETERSEN RENTALS, LLC

B&G MAIN STREET INVESTMENTS, LLC

WALTER GONDECK, JR.

NBAY PARTNERS, LLC

JAMES P. MCCLURE

THE PESHTIGO NATIONAL BANK

KINGDOM HALL OF JEHOVAH'S WITNESSES, OCONTO FALLS CONGREGATION, INC.

JACKSON ST.

VAN BUREN ST.

STH 22

N1°15'14"E

S88°57'57"E

S89°03'13"E

S89°05'51"E

CONSTRUCTION LIMITS
STA. 9+40JK
STA. 38+16.78 STH 22=
STA. 10+00.00JK JACKSON ST.
Y=176067.940
X=540954.342

CONSTRUCTION LIMITS
STA. 10+65JK

CONSTRUCTION LIMITS
STA. 9+40VB

STA. 38+16.85 STH 22=
STA. 10+00.00JK JACKSON ST.
Y=176068.018
X=540954.343

STA. 41+32.15 STH 22=
STA. 10+00.00VB VAN BUREN ST.
Y=176383.234
X=540961.246

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.
CITY OF OCONTO FALLS

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
710	38+44	CH X TOP BURY BOLT-39' LT	736.31

BM#710
25+73.3
39' LT
20' R

37+76.6
39' LT
20' R

37+72.4
44' RT
25' R

38+61.9
44' RT
25' R

40+91.9
39' LT
20' R

41+71.8
39' LT
20' R

SLOPE INTERCEPTS

TLE LINE

LIGHT POLE (TO BE REMOVED BY OTHERS)

BURIED GAS LINE APPROXIMATE LOCATION

BURIED TELEPHONE APPROXIMATE LOCATION

BURIED FIBER OPTIC APPROXIMATE LOCATION

EXISTING R/W

P.I.

5

VCL = 200.00
K = 136.96

VPC STA 37+20.00
VPC EL 736.51

VPI STA 38+20.00
VPI EL 734.45

VPT STA 39+20.00
VPT EL 733.85

EXISTING PROFILE

FINISHED GRADE

0.60%

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050111_PP.DWG PLOT DATE : 1/9/2015 10:55 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

NBAY PARTNERS, LLC

MARK D. MORTELL

DREWS FAMILY REVOCABLE TRUST

KRIST OIL COMPANY, INC.

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPTS

BURIED GAS LINE
APPROXIMATE LOCATION

CAUTION

CONCRETE CURB AND GUTTER
18-INCH TYPE D REQ'D.

TLE LINE

EXISTING R/W

(REM.)

731.24 730.94 730.64 730.34 730.05 (ADJ.) 729.75 729.53 729.37
731.34 731.04 730.74 730.44 730.15 729.85 729.63 729.47
43 44 45 46
731.58 731.28 730.98 730.68 730.39 730.09 729.87 729.71
730.27 729.91 729.70 729.49
731.34 731.04 730.74 730.39 730.03 729.66 729.41 729.25
731.24 730.94 730.64 730.28 729.93 729.56 729.31 729.15

N1°15'14"E

STH 22

MH(ADJ.)

(ADJ.)

WV(ADJ.)

EXISTING R/W

TLE LINE

SLOPE
INTERCEPTS

R/W LINE

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
24-INCH TYPE D REQ'D.

CONCRETE CURB AND GUTTER
24-INCH TYPE D REQ'D.

THE PESHTIGO NATIONAL BANK

BURIED FIBER OPTIC
APPROXIMATE LOCATION

CAUTION

BURIED FIBER OPTIC
APPROXIMATE LOCATION

VAUGHN A. AND
LINDA M. SPAULDING

MATCH LINE
SEE NEXT SHEET

N

PAVING LEGEND
- LIMITS OF CONCRETE
- LIMITS OF HMA PAVEMENT

5

5

VCL = 75.00
K = 251.95

EXISTING
PROFILE

FINISHED
GRADE

VPC STA 45+37.50
VPC EL 730.16

VPI STA 45+75.00
VPI EL 729.94

VPT STA 46+12.50
VPT EL 729.83

736 734 732 730 728 726 724 722

43 44 45 46 47

731.90 731.58 731.57 731.28 731.27 730.98 731.08 730.68 730.93 730.39 730.75 730.09 730.51 729.87 730.22 729.71 729.86 729.56

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET 157	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050112_PP.DWG PLOT DATE : 1/12/2015 8:49 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

KRIST OIL COMPANY, INC.

PI STA. 48+32.90 STH 22
Y=177083.824
X=540976.576
STA. 48+29.88 STH 22=
STA. 10+00.00EH E. HIGHLAND
Y=177080.806
X=540976.521

47+67.6
59' LT
40' R

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE INTERCEPTS

EXISTING R/W

TLE LINE

CONSTRUCTION LIMITS
STA. 9+00EH

49+17.6
77.5' LT
40' R

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

TEMPORARY CONNECTION
STA. 49+25 TO STA. 50+25

WEISS LIVING TRUST

BURIED GAS LINE
APPROXIMATE LOCATION

CAUTION

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT

CONSTRUCTION LIMITS
STA. 51+00

PI STA = 61+09.54
Y = 178359.749
X = 541019.304
DELTA = 88°43'50"
D = 4°59'59"
T = 1120.89'
L = 1774.74'
R = 1146.00'
PC STA = 49+88.66
PT STA = 67+63.40

STH 22

E. HIGHLAND

N1°15'14"E

N1°55'05"E

S89°05'34"E

S88°57'13"E

(REM.)

(ADJ.)

EXISTING R/W

PAVEMENT WIDENING
REQUIRED

BURIED FIBER OPTIC
APPROXIMATE LOCATION

CAUTION

END PROJECT 9180-19-71
END RECONSTRUCTION
STA. 49+25
Y = 177175.869
X = 540979.659

STA. 48+38.58 STH 22=
STA. 10+00.00EH E. HIGHLAND
Y=177089.501
X=540976.712

48+92.7
70' RT
40' R

47+74.3
64' RT
34' R

VAUGHN A. AND
LINDA M. SPAULDING

ALAN AND RITA
M. GARBRECHT

751 LLC

P.L.

5

5

FINISHED GRADE

EXISTING PROFILE

-0.30%

-1.20%

STA 49+25.00
EL 728.89

STA 50+25.00
EL 727.69

736
734
732
730
728
726
724
722

47 48 49 50 51 52 53

729.86 729.56
729.48 729.41
729.09 729.26
728.80 729.11
728.48 728.96
728.16 728.59
727.90 727.99
727.46
726.98

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: STH 22	SHEET 158	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050113_PP.DWG PLOT DATE : 1/9/2015 10:57 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

PAVING LEGEND
LIMITS OF CONCRETE
LIMITS OF HMA PAVEMENT

WEISS LIVING TRUST

CAUTION BURIED GAS LINE APPROXIMATE LOCATION

49+17.6
77.5' LT
40' R

STA. 48+38.58 STH 22=
STA. 10+00.00EH E. HIGHLAND
Y=177089.501
X=540976.712

SLOPE INTERCEPTS

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

EXISTING R/W

END PROJECT 9180-19-71
END RECONSTRUCTION
STA. 49+25
Y = 177175.869
X = 540979.659

ALAN AND RITA M. GARBRECHT

P.L.

N

48+92.7
70' RT
40' R

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

CONSTRUCTION LIMITS
STA. 11+25EH

7EH 8EH 9EH 10EH 10EH

E. HIGHLAND DRIVE

CONSTRUCTION LIMITS
STA. 9+00EH

PI STA. 48+32.90 STH 22
Y=177083.824
X=540976.576

47+67.6
59' LT
40' R

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

SLOPE INTERCEPTS

CONCRETE SIDEWALK 4-INCH REQ'D.

KRIST OIL COMPANY, INC.

SLOPE INTERCEPTS

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

STA. 48+29.88 STH 22=
STA. 10+00.00EH E. HIGHLAND
Y=177080.806
X=540976.521

47+74.3
64' RT
34' R

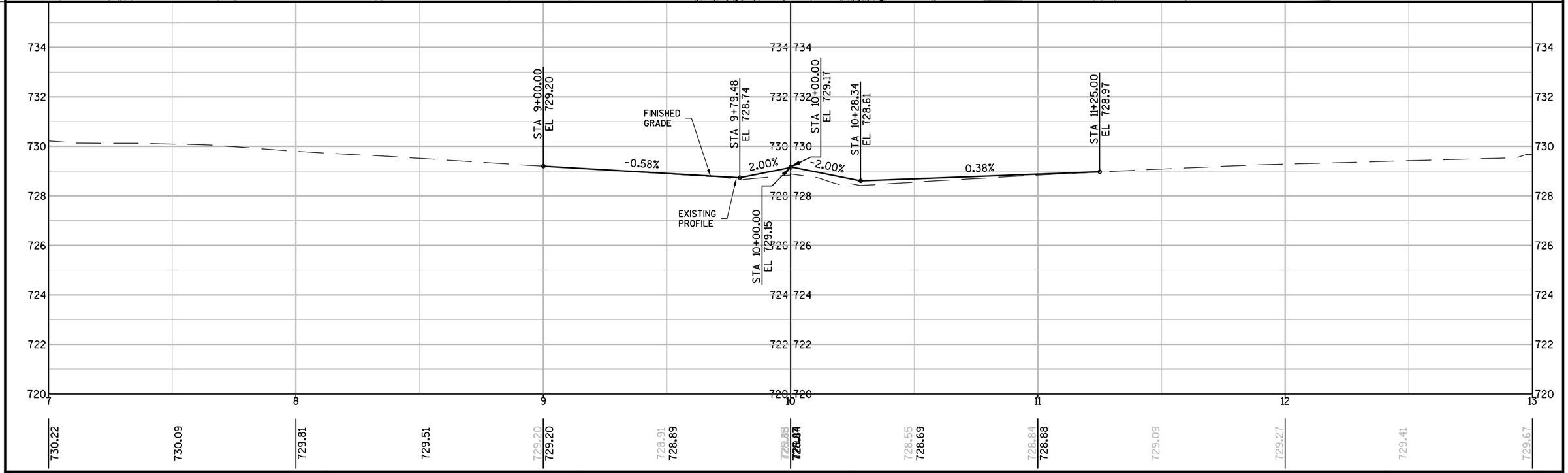
TLE LINE

VAUGHN A. AND LINDA M. SPAULDING

STH 22

5

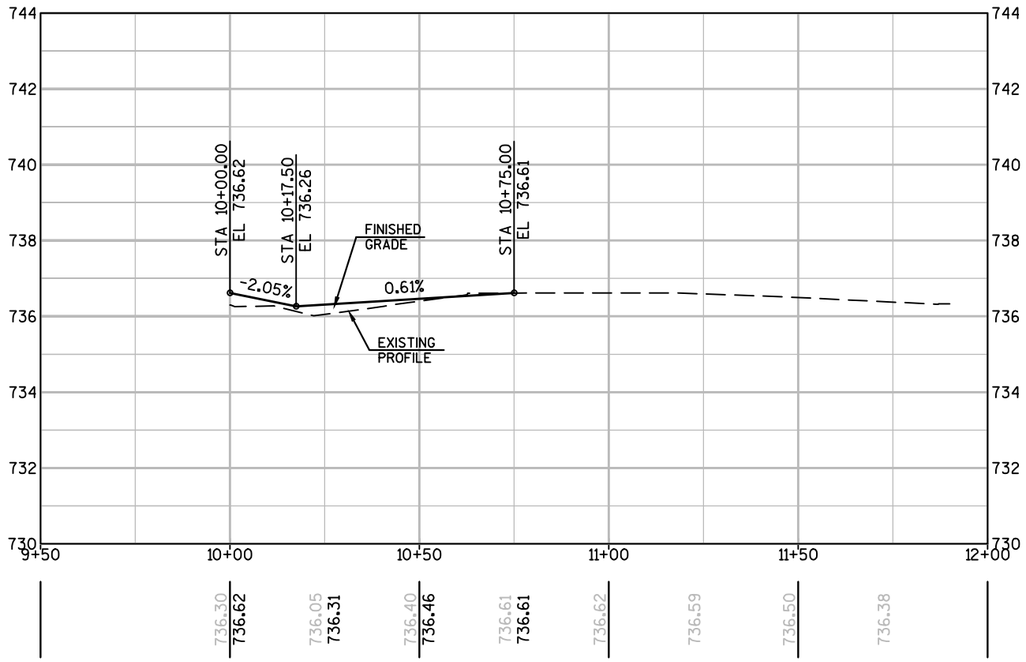
5



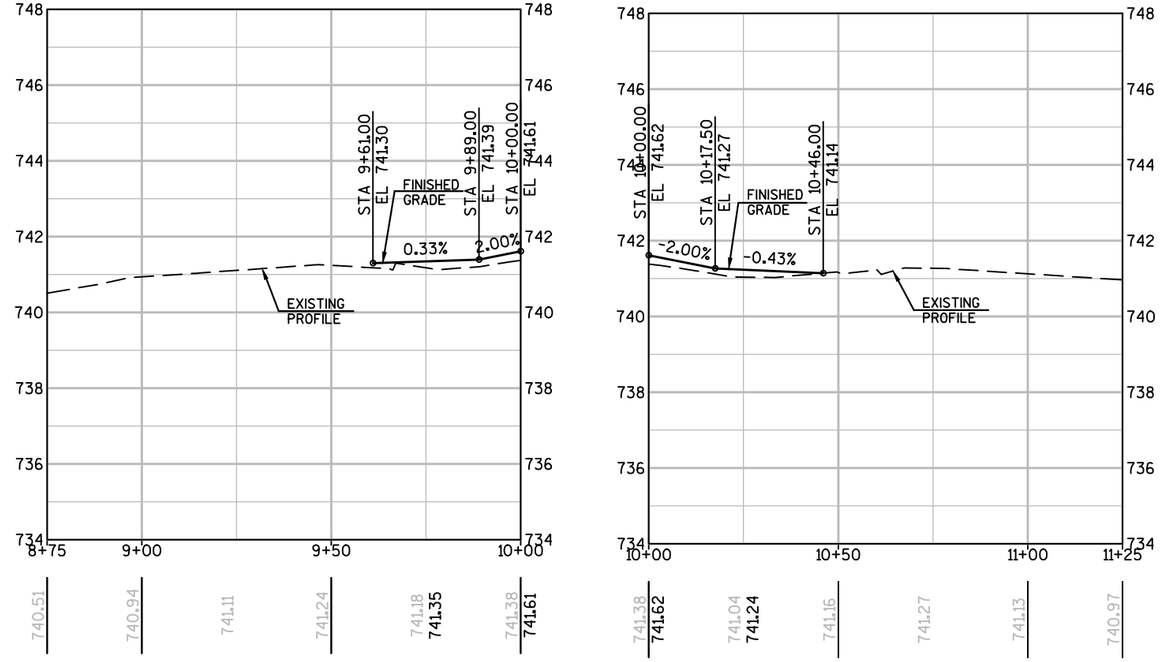
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: E. HIGHLAND DRIVE	SHEET E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\050114_PP.DWG PLOT DATE : 1/9/2015 10:58 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

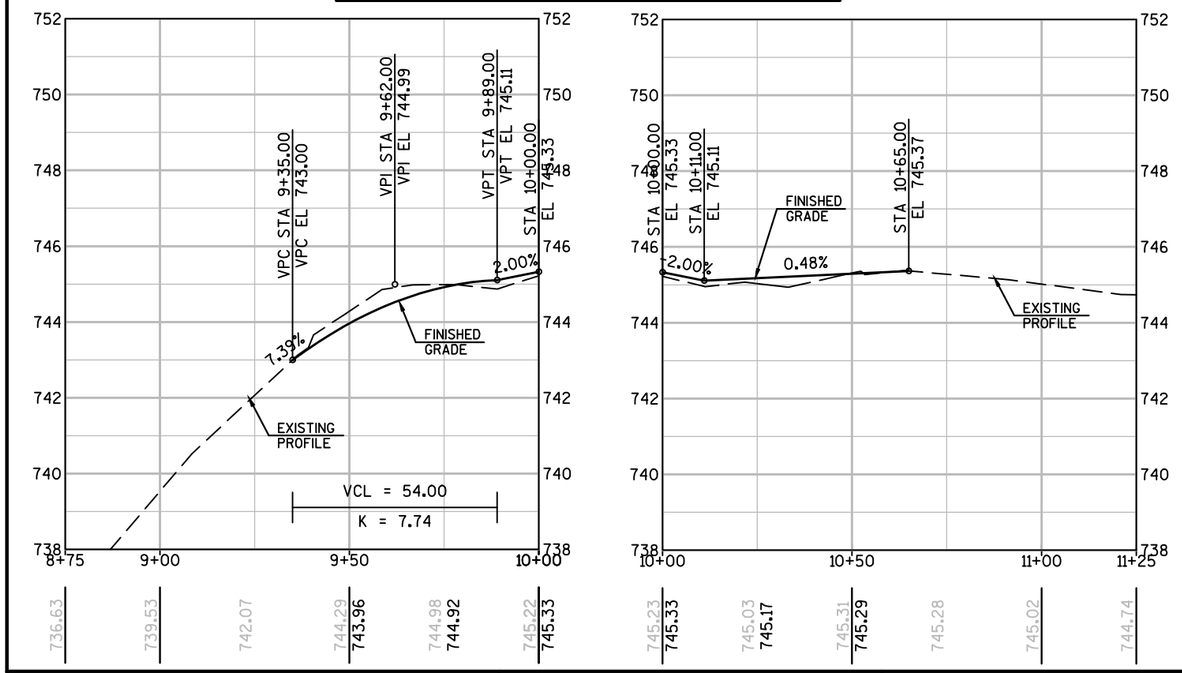
CHERRY AVE. PROFILE



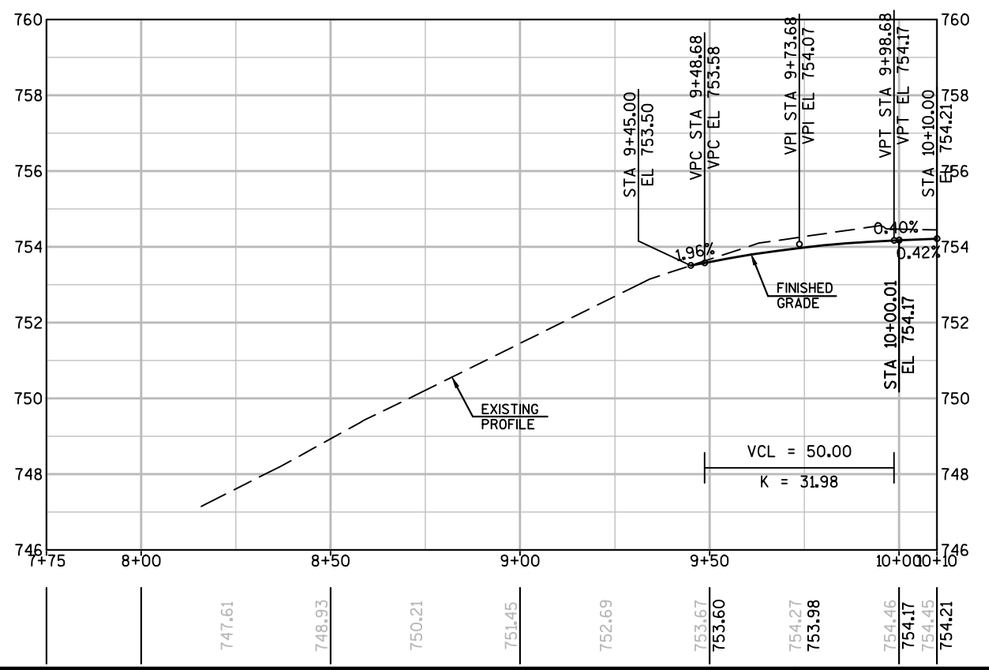
CALDWELL AVE. PROFILE



CENTRAL AVE. PROFILE

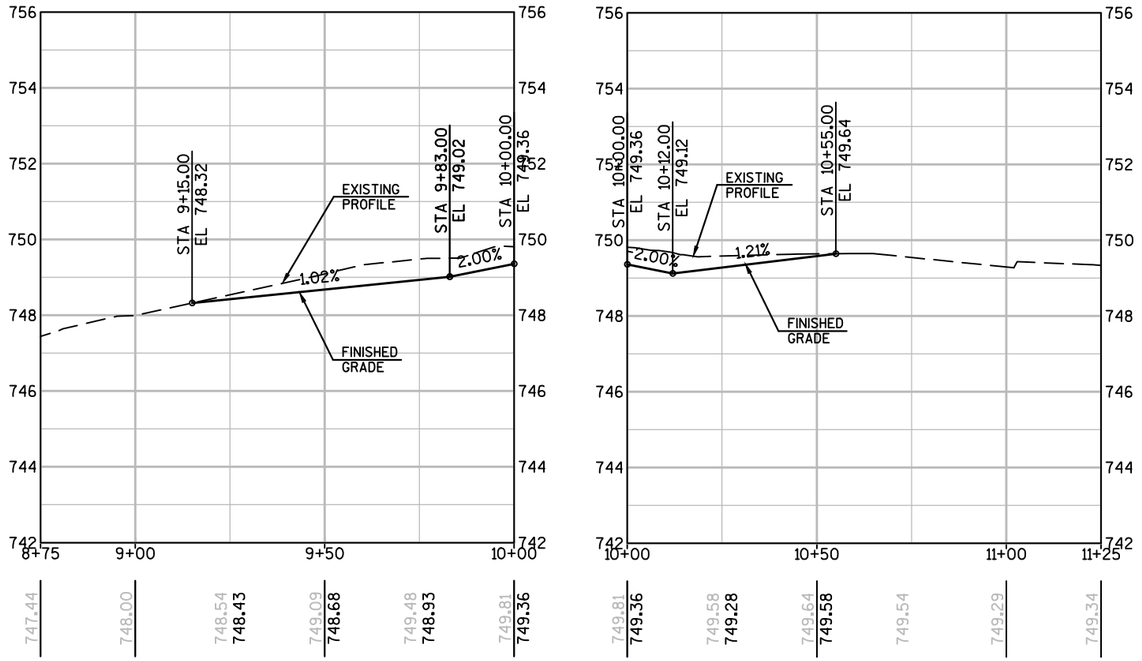


MAIN AVE. PROFILE

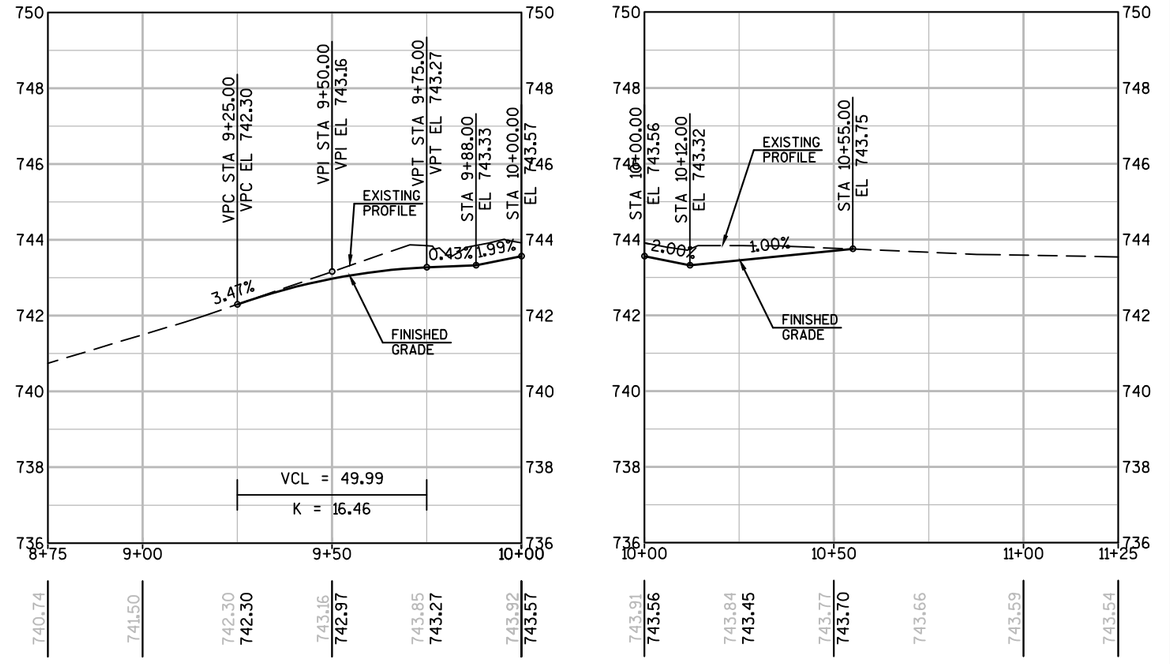


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: SIDE ROAD PROFILES	SHEET 160 E

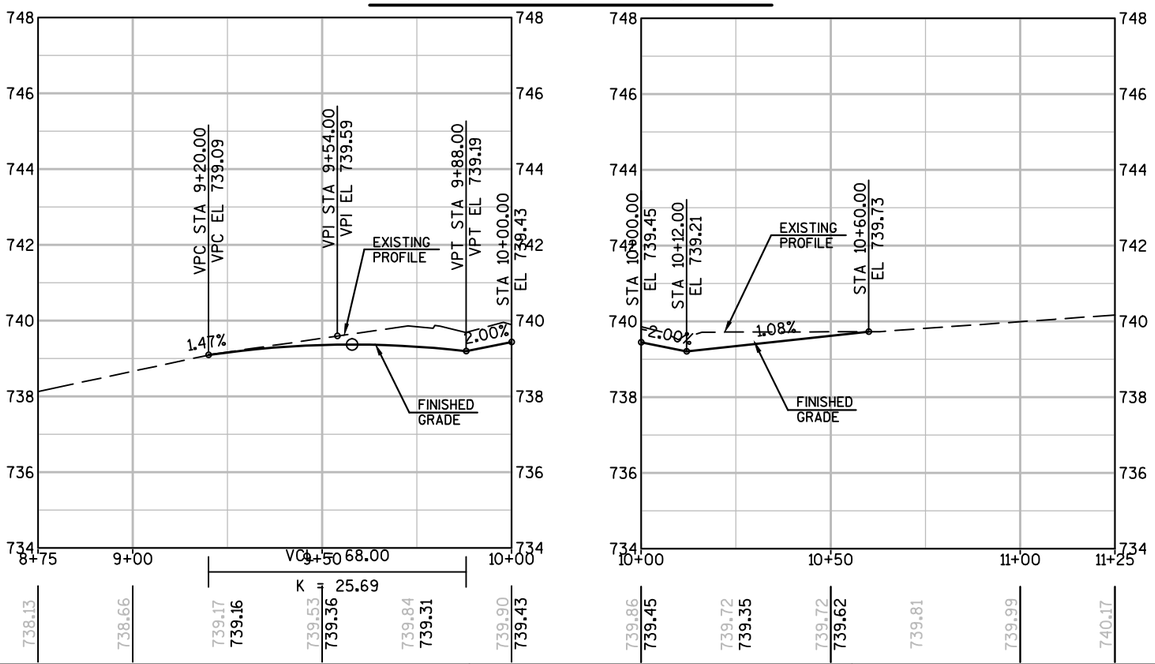
S. FRANKLIN ST. PROFILE



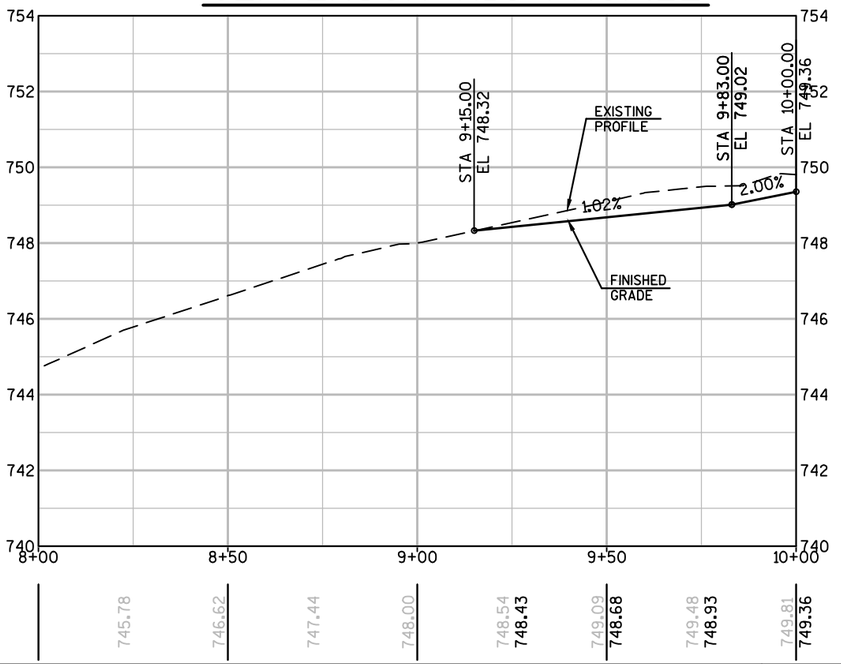
S. WASHINGTON ST. PROFILE



ADAMS ST. PROFILE

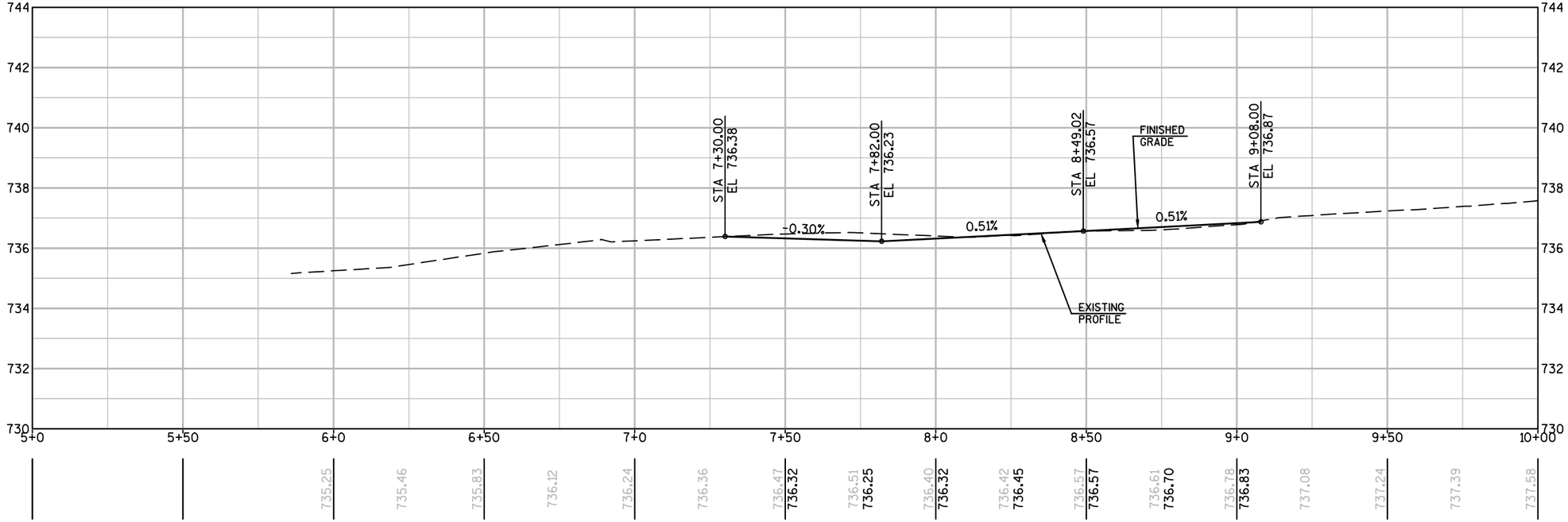


JEFFERSON RD. PROFILE



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	PLAN AND PROFILE: SIDE ROAD PROFILES	SHEET 161	E

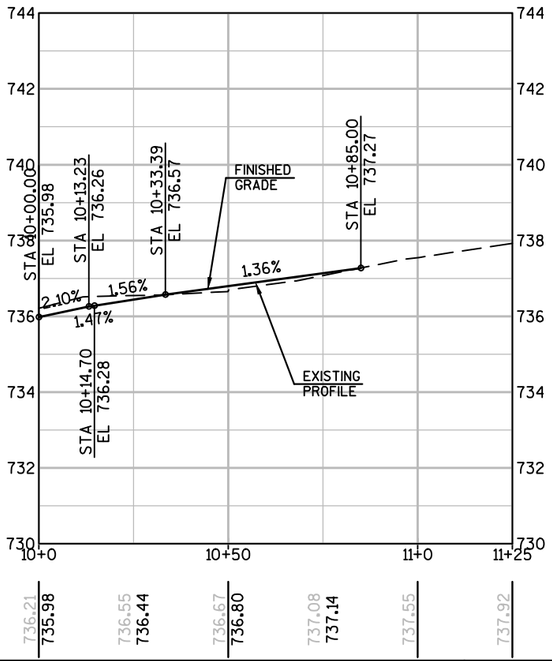
S. CHESTNUT AVE. PROFILE



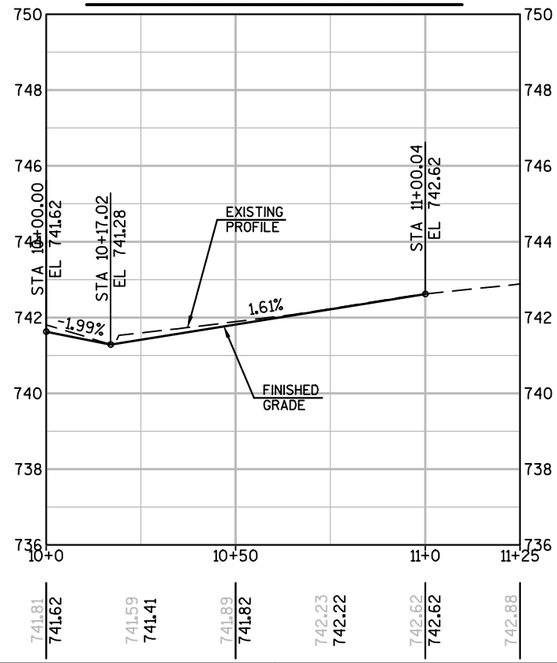
5

5

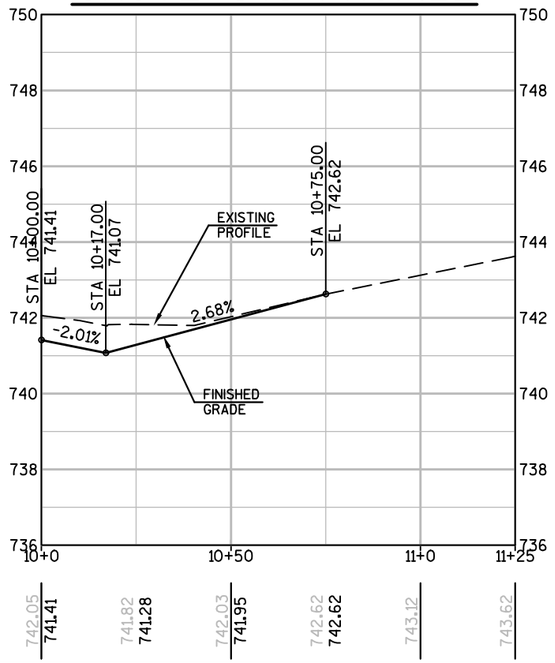
COLUMBIA ST. PROFILE



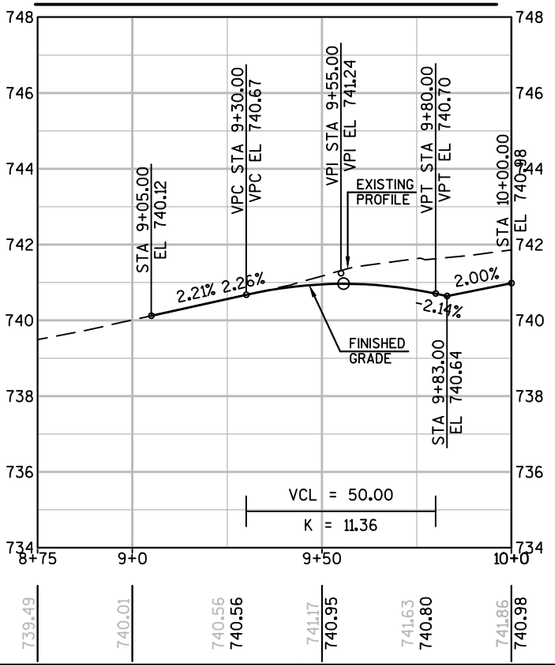
PAUL ST. PROFILE



GROVE ST. PROFILE



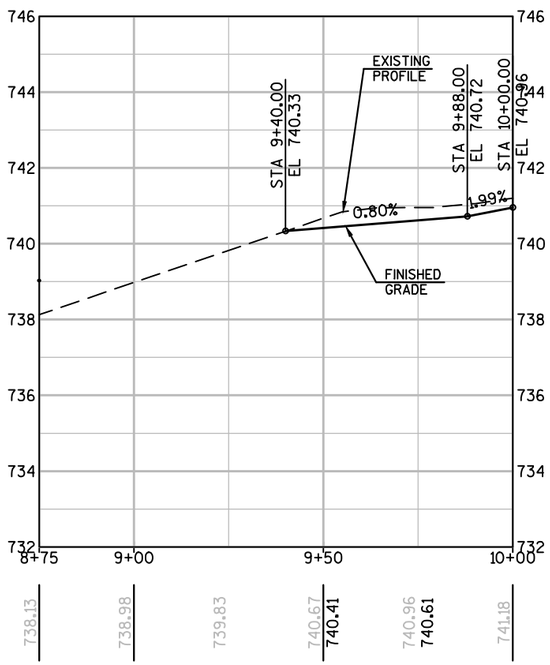
MONROE ST. PROFILE



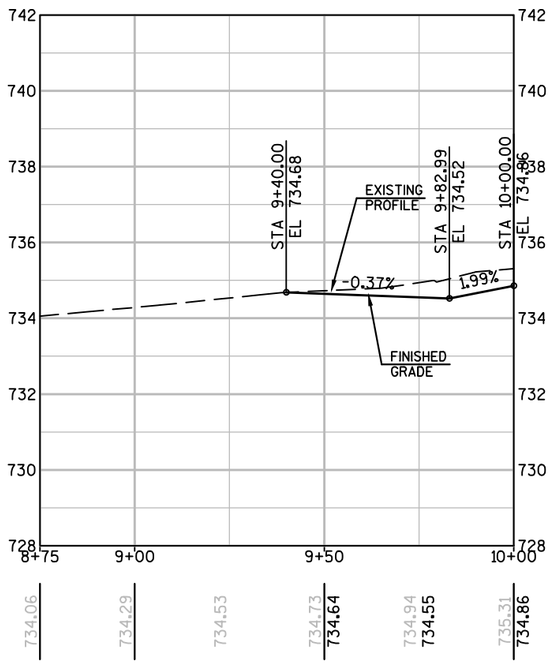
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	SIDE ROAD PROFILES	SHEET	E

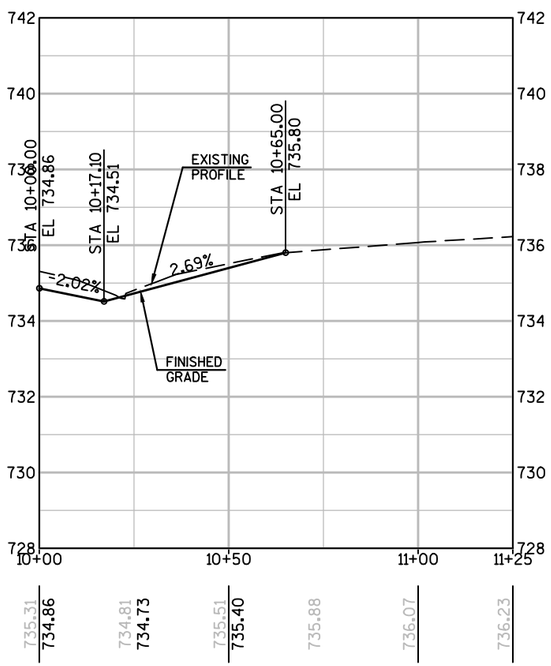
FILE NAME : N:\C3D\56022300\SHEETSPLAN\050303_PR.DWG PLOT DATE : 1/9/2015 11:03 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : Plan 1 IN 40 FT PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

QUINCY ST. PROFILE

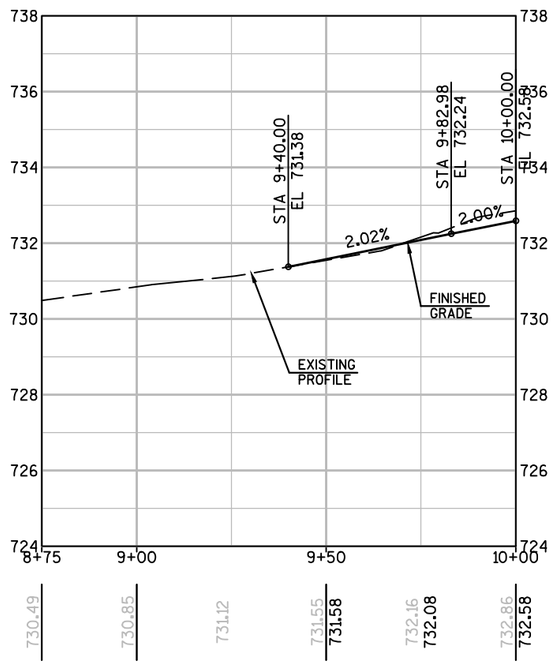


JACKSON ST. PROFILE





VAN BUREN ST. PROFILE



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	SIDE ROAD PROFILES	SHEET 163	E

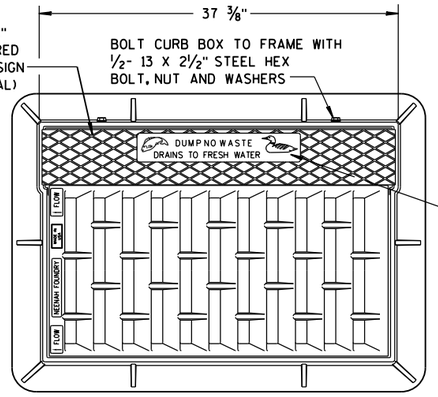
FILE NAME : N:\C3D\56022300\SHEETSPLAN\050304_PR.DWG PLOT DATE : 1/9/2015 11:03 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : Plan 1 IN 40 FT PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

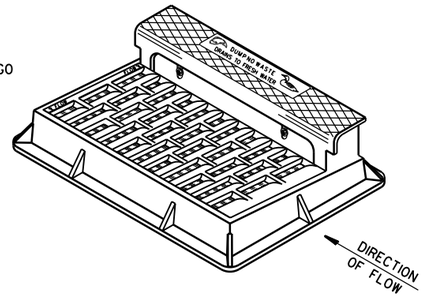
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-01	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
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
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
13C01-17	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-11A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-11B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-11C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-02A	CONCRETE PAVEMENT JOINTING
13C18-02B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C	CONCRETE PAVEMENT JOINT TIES
13C18-02D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE

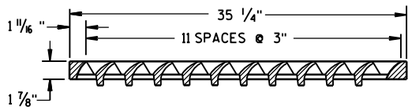
6

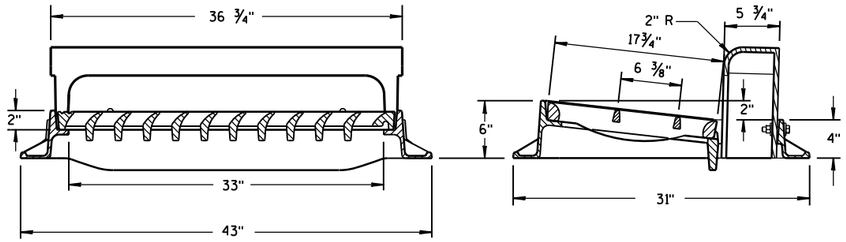


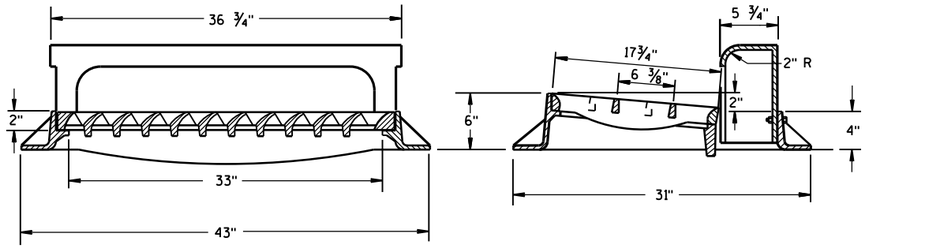
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

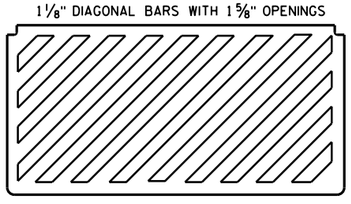






TYPE "H"

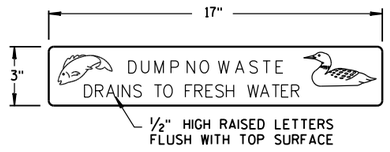
NOTE: EITHER CASTING IS ACCEPTABLE



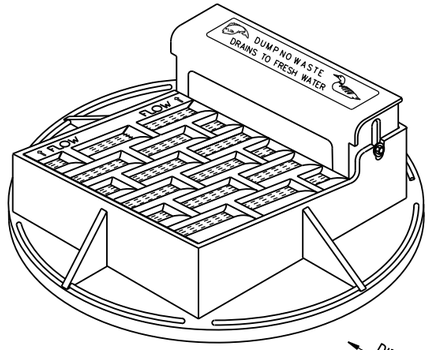
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

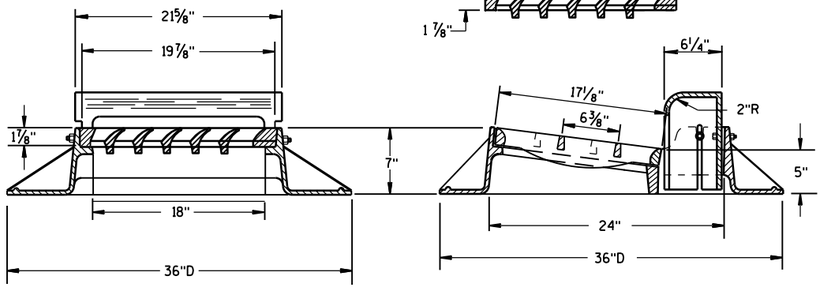


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



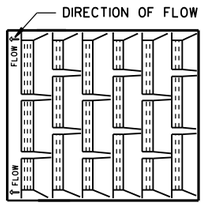
TYPE "A"

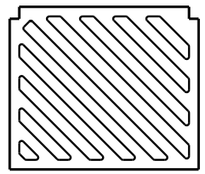
GENERAL NOTES

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.

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.

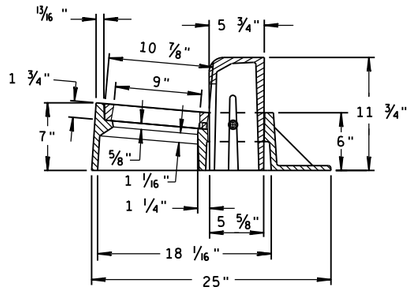


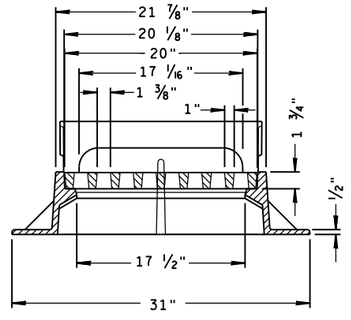


SPECIAL GRATE FOR TYPE "A" COVER

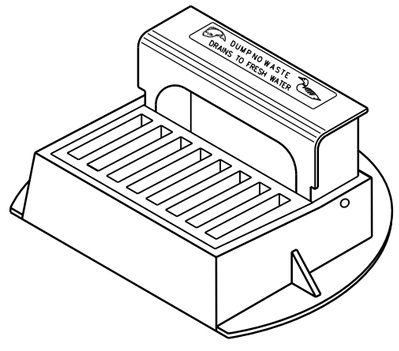
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



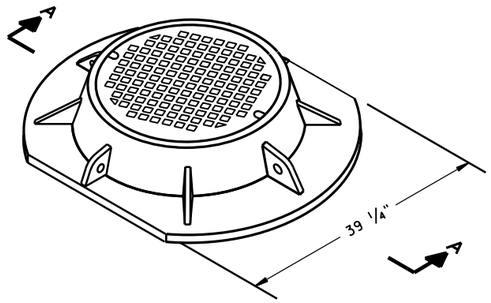
INLET COVERS
TYPE A, H, A-S, H-S & Z

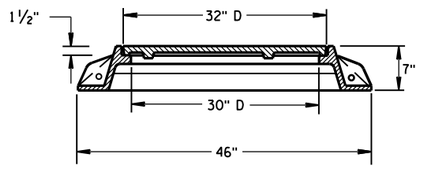
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

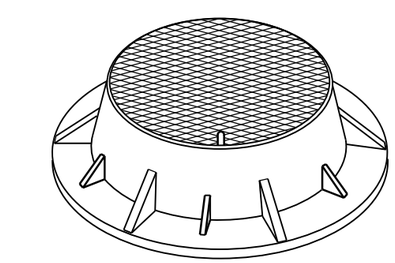
6

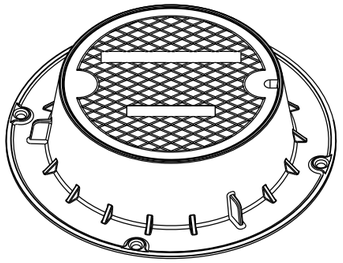
S.D.D. 8 A 5-19a

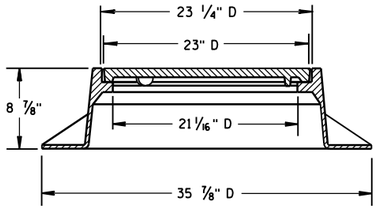


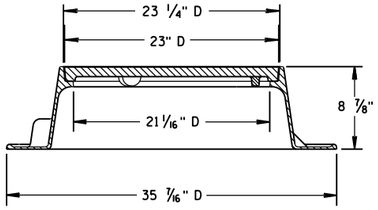


SECTION A-A
TYPE "K"









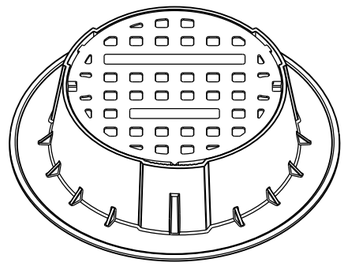
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

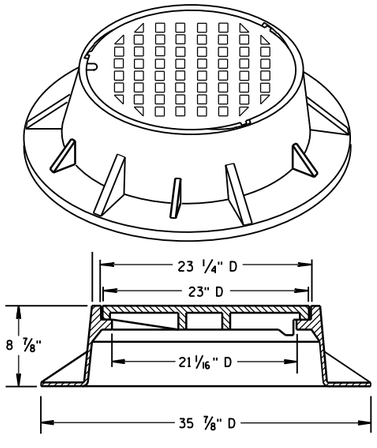
GENERAL NOTES

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.

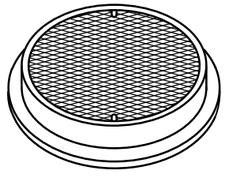
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

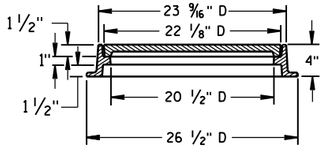
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



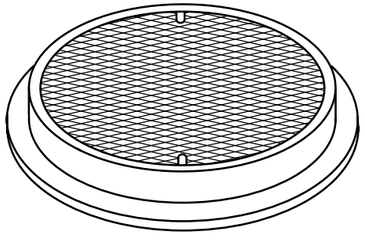


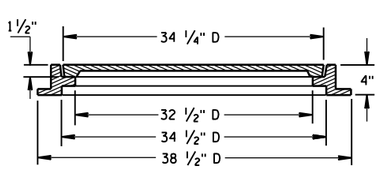
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



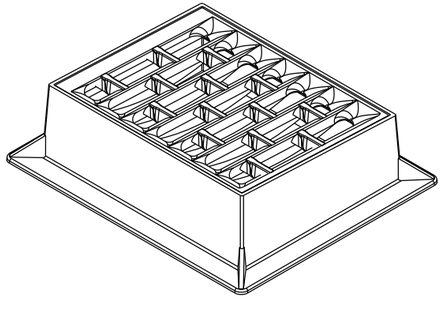


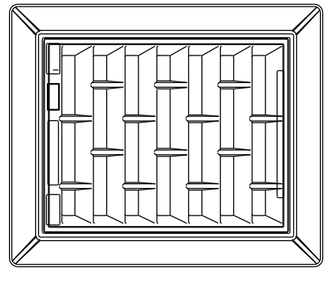
TYPE "L"

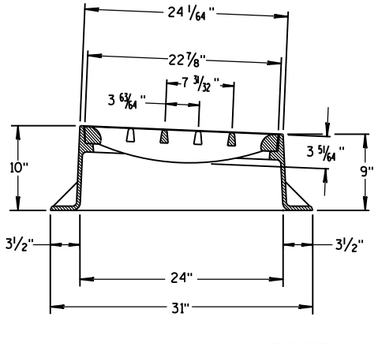


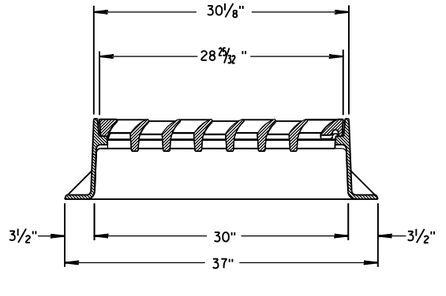


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

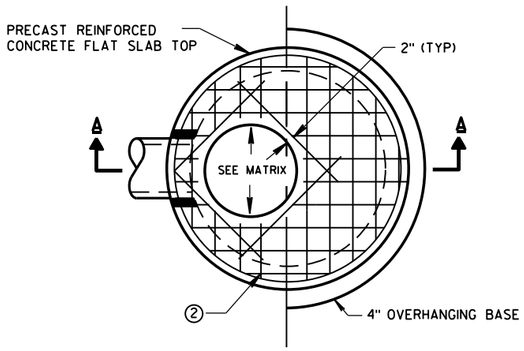
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

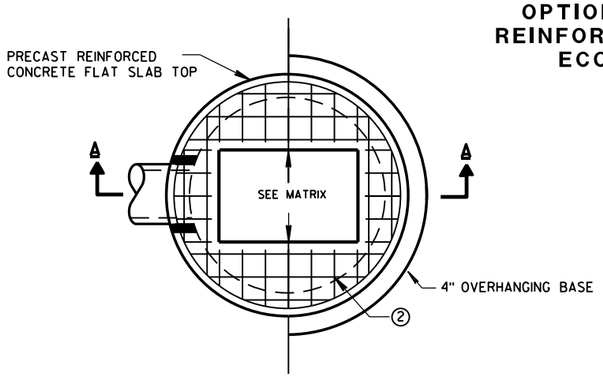
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

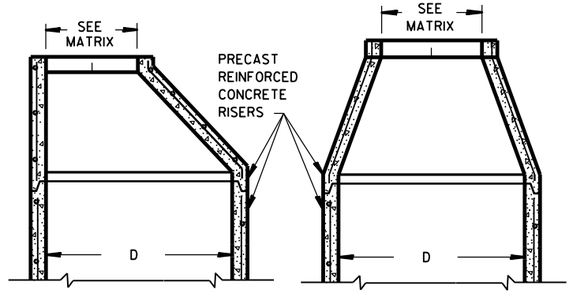
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

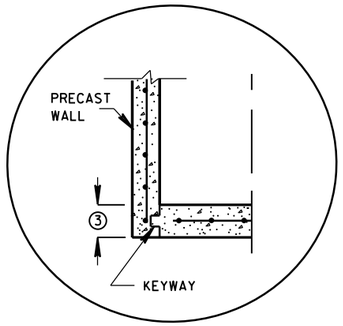


PLAN VIEW RECTANGULAR OPENING

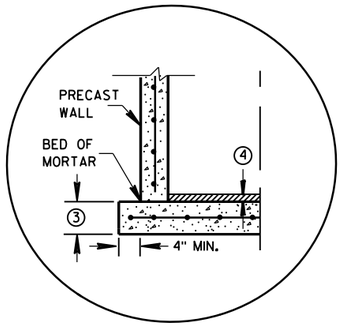


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

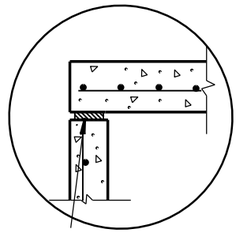


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



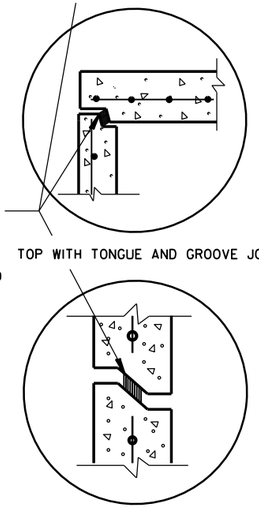
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

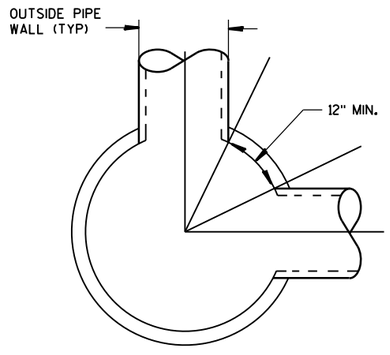
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



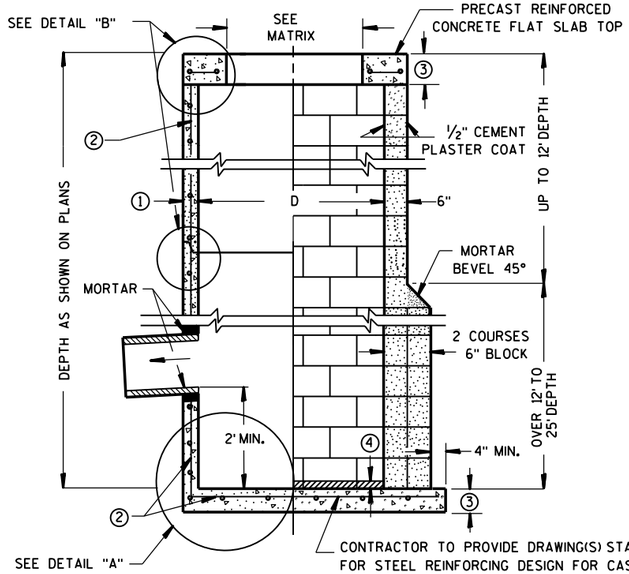
TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE 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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN 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 CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE 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 1/2 INCH 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.

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.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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 AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS 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".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN 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	30

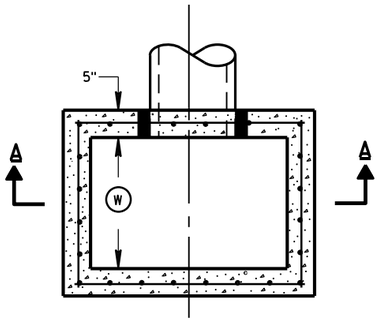
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

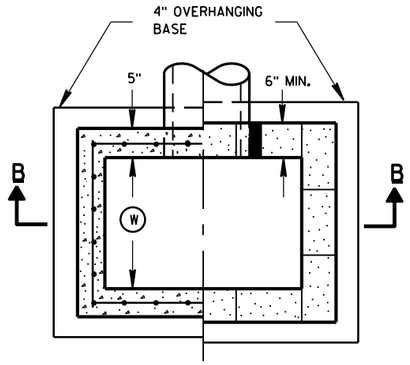
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

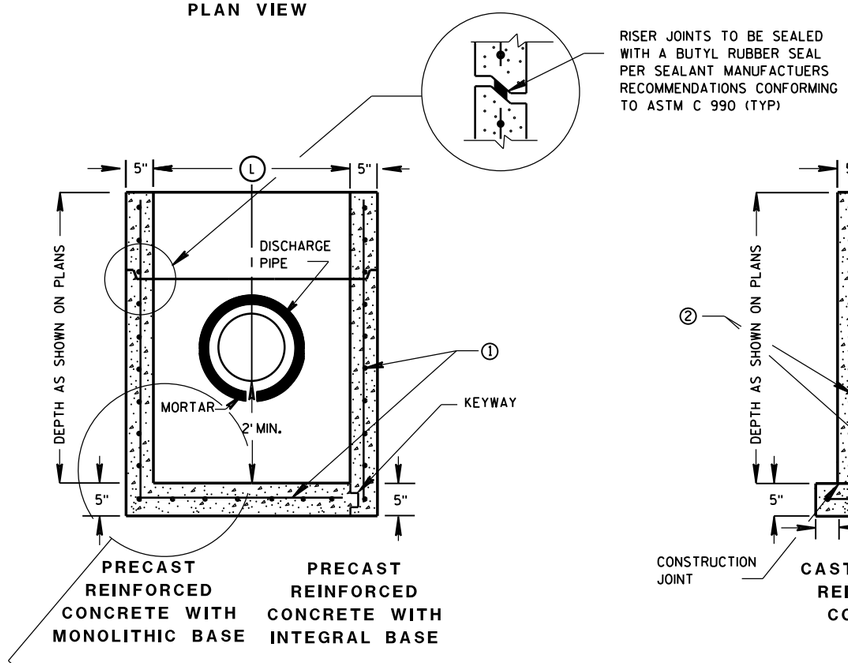
S.D.D. 8 A 8-1



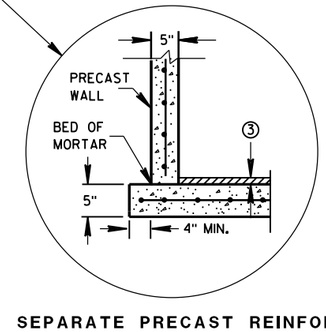
PLAN VIEW



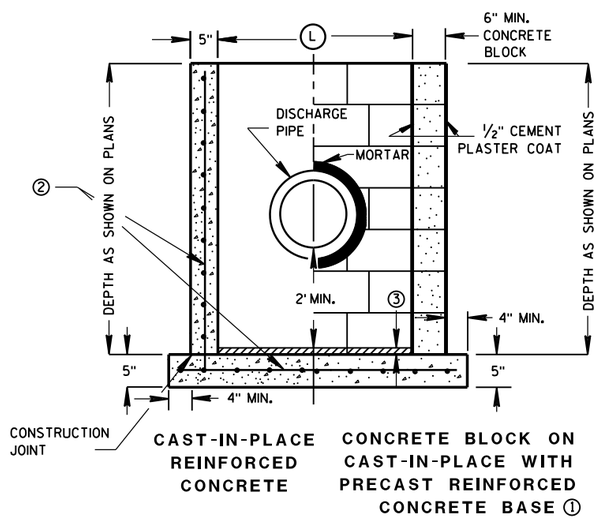
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-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 CATCH BASIN 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 CATCH BASIN 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" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS 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.

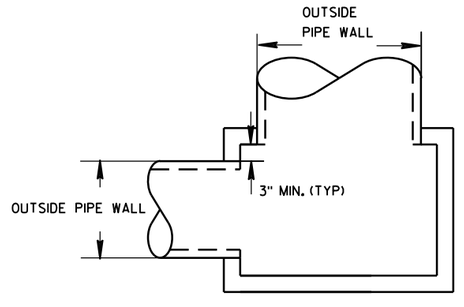
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

CATCH BASINS 2X3-FT AND 2.5X3-FT

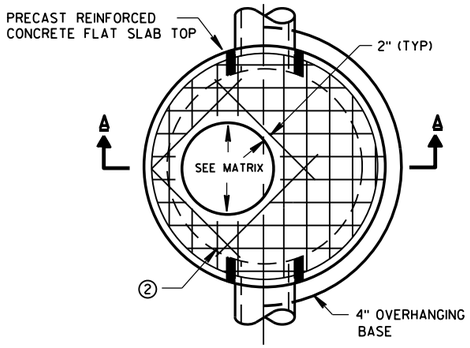
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

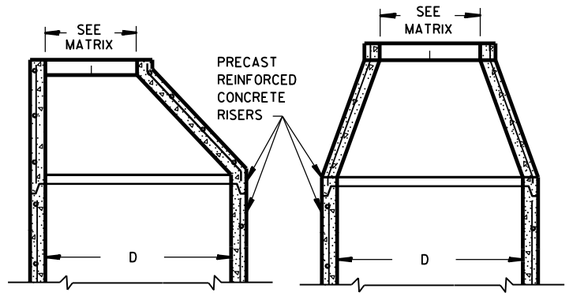
NT

6

S.D.D. 8 A 9-1

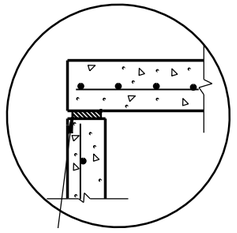


PLAN VIEW CIRCULAR OPENING

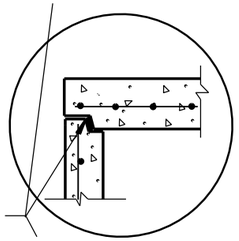


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

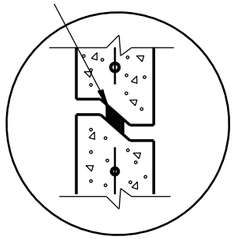


TOP WITH PLAIN END JOINT



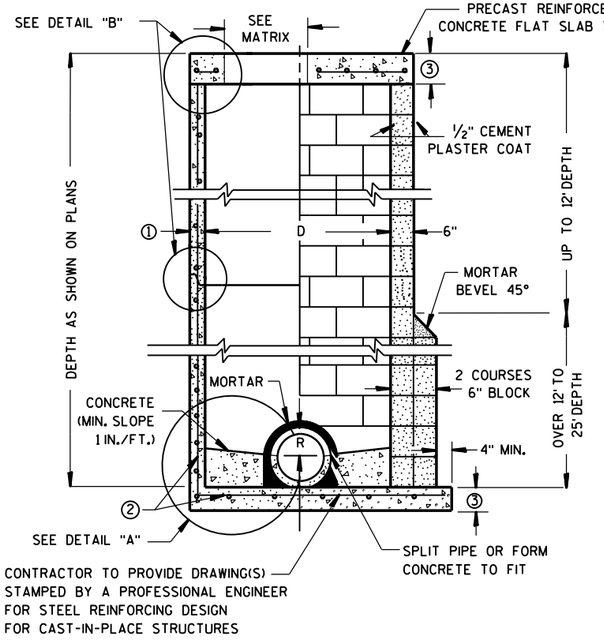
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



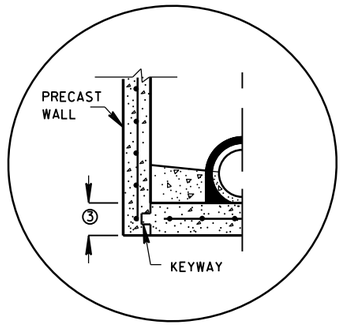
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

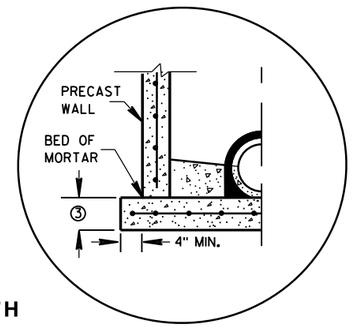


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

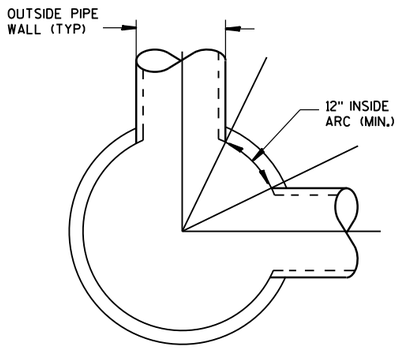


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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

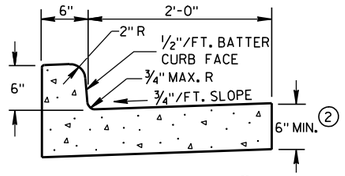
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

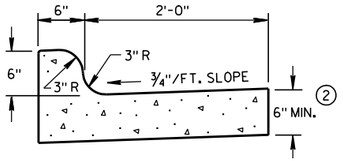
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

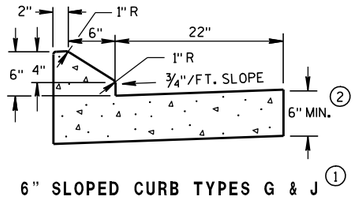
6
S.D.D. 8 B 9-1



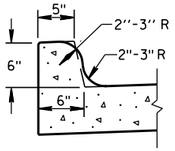
TYPES A & D (1)



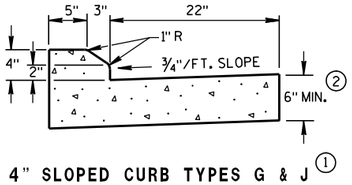
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

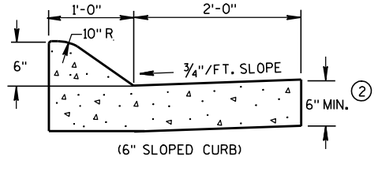


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

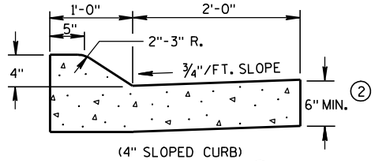


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

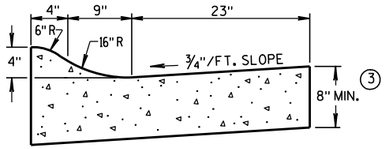


(6" SLOPED CURB)



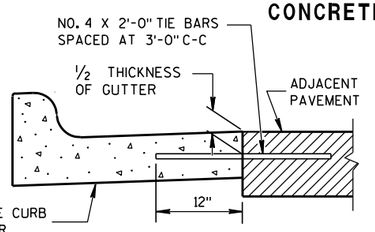
(4" SLOPED CURB)

TYPES A & D (1)

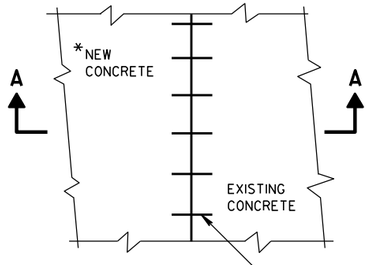


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

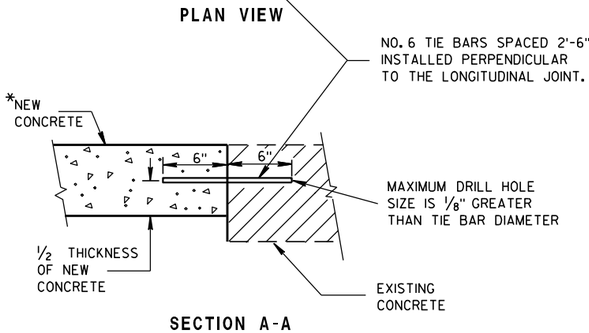


TYPICAL TIE BAR LOCATION (1)



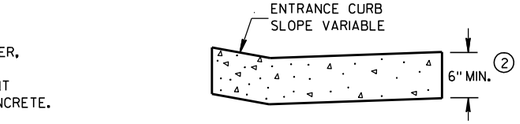
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.



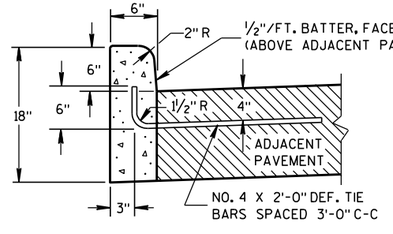
SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

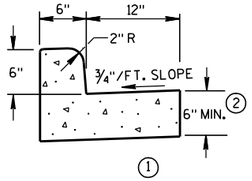


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

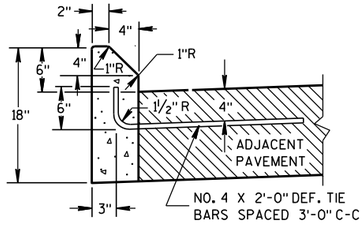


TYPES A & D (1)



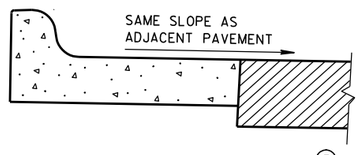
TYPES A & D (1)

CONCRETE CURB & GUTTER 18"



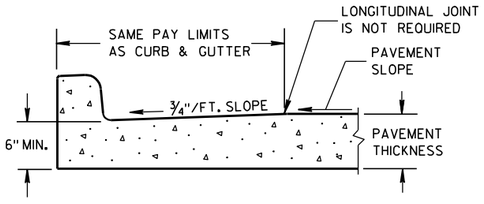
TYPES G & J (1)

CONCRETE CURB

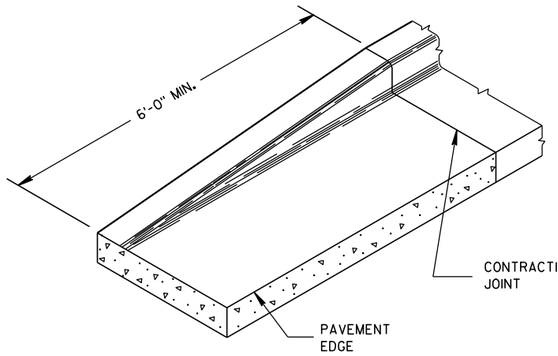


REVERSE SLOPE GUTTER (5)

(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

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 AND R.

(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.

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

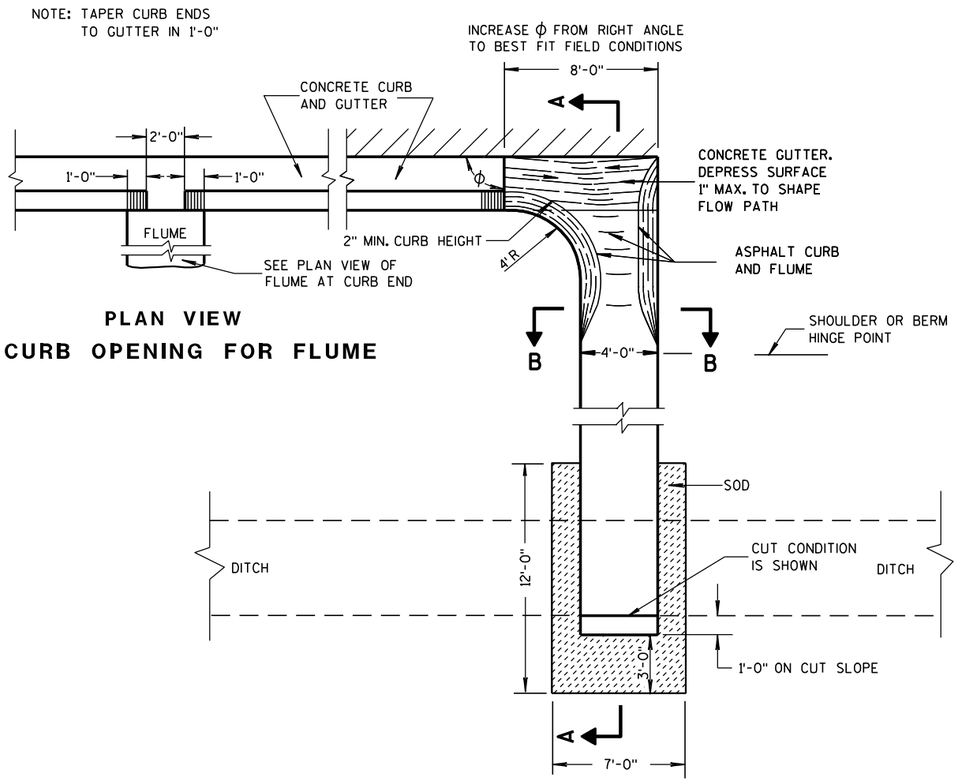
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

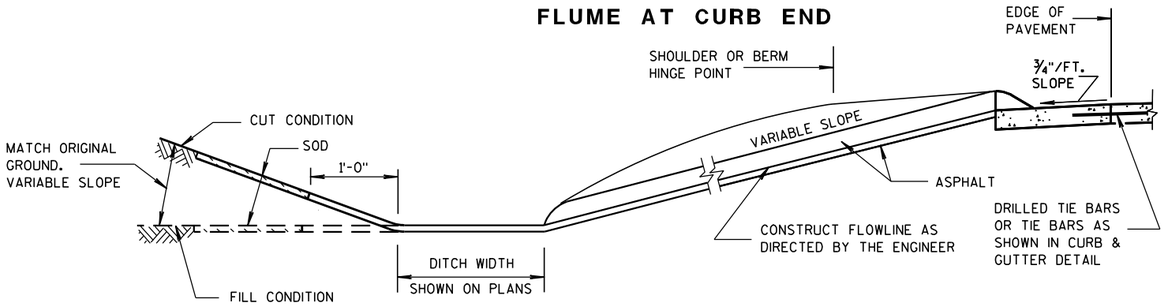
S.D.D. 8 D 1-17

ASPHALTIC FLUME

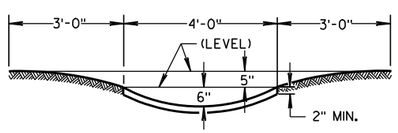


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

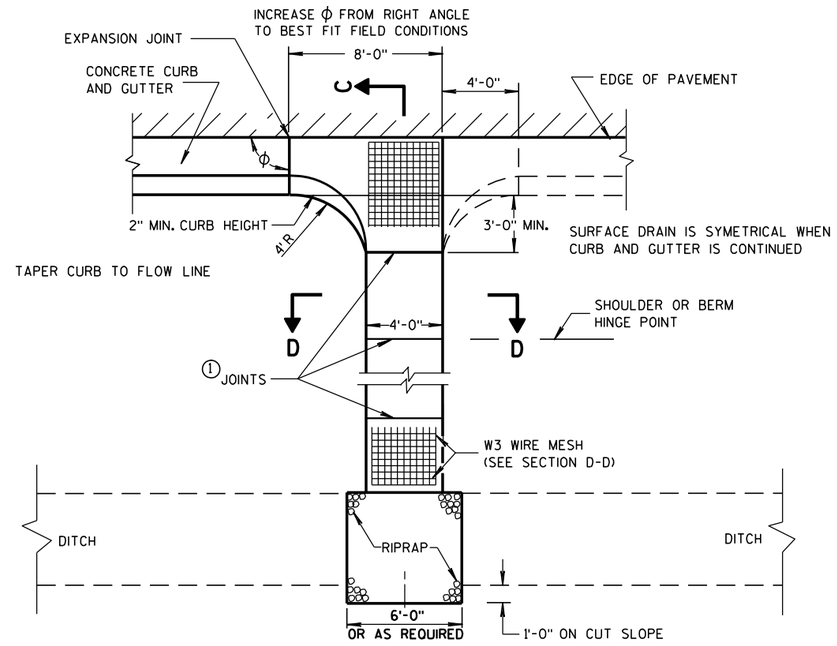
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

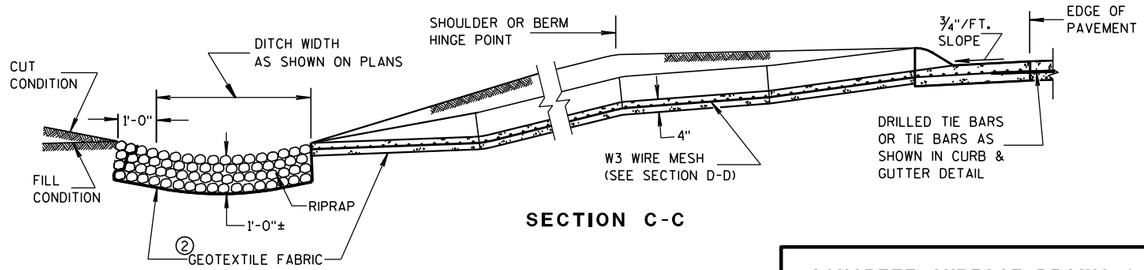
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

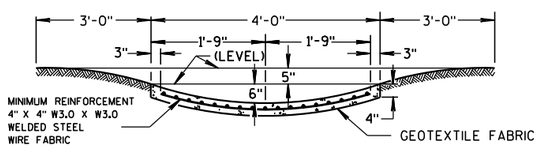
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

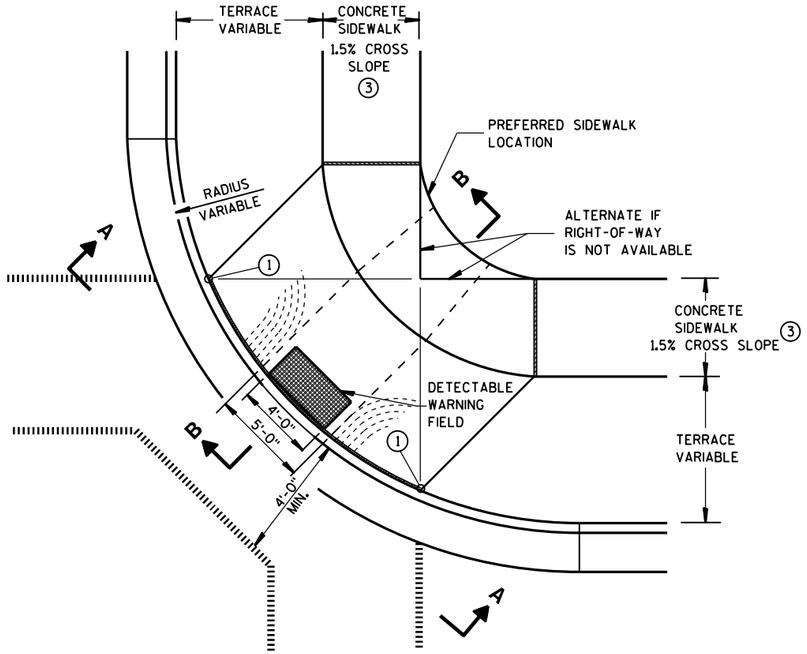
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

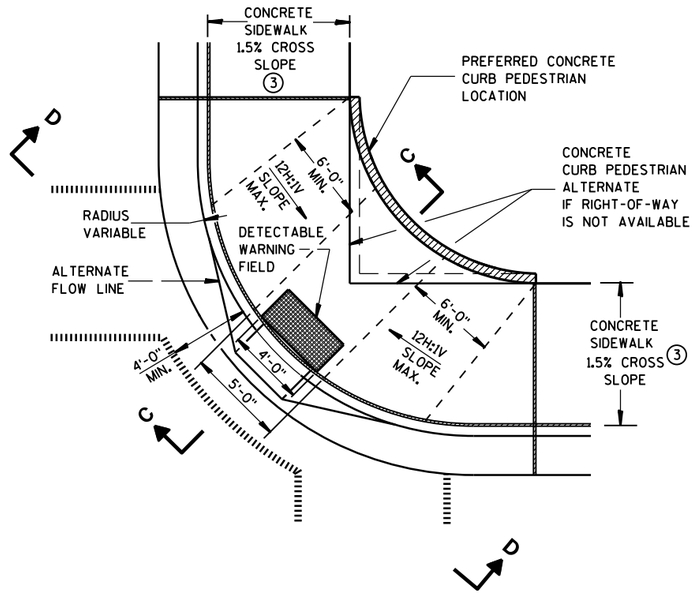
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

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.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. 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.

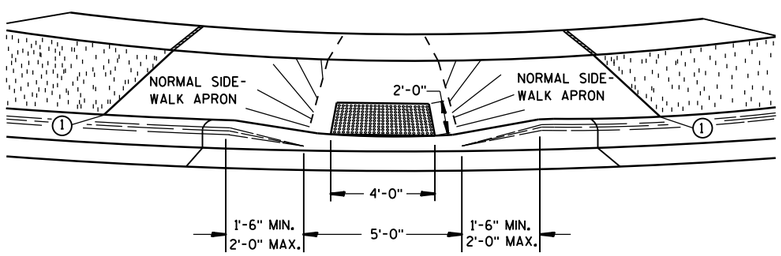
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

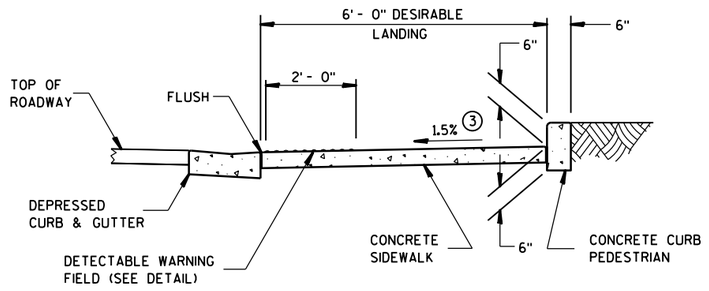
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

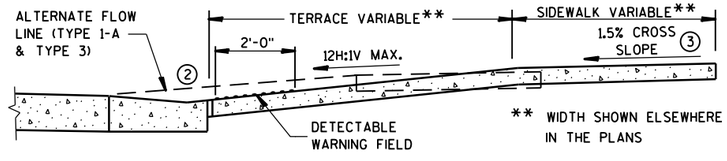
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



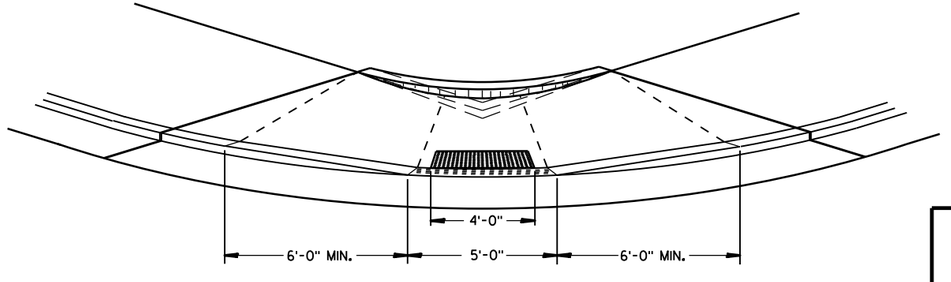
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

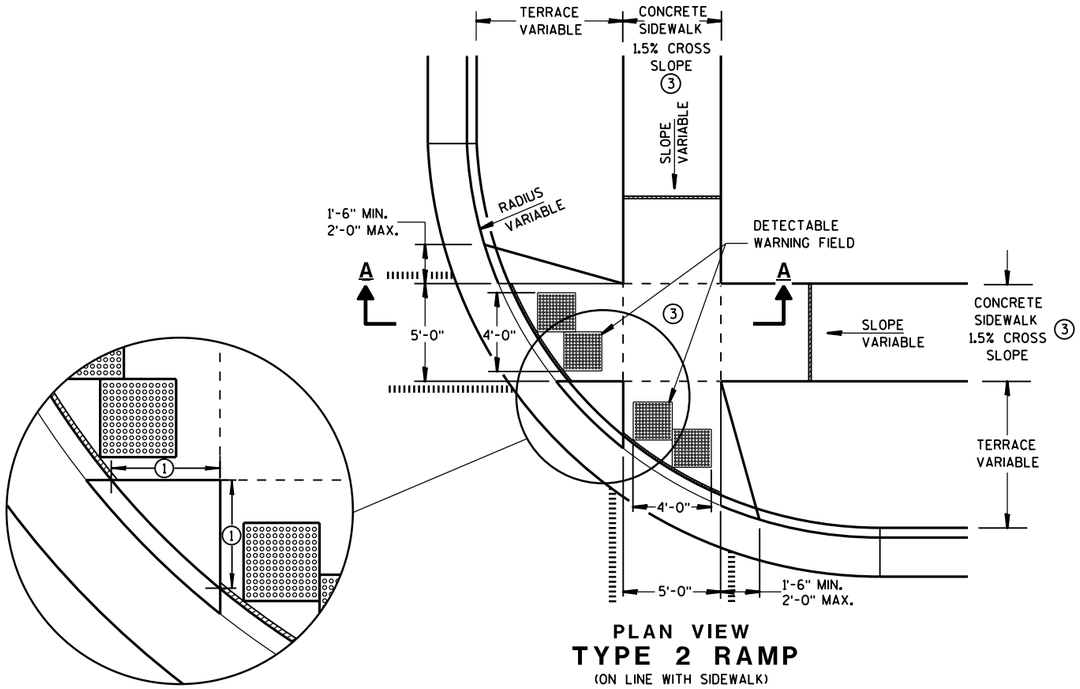
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15a

6

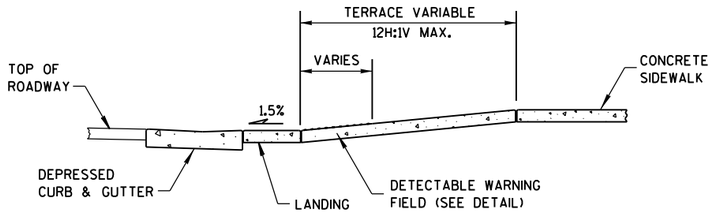
S.D.D. 8 D 5-15a



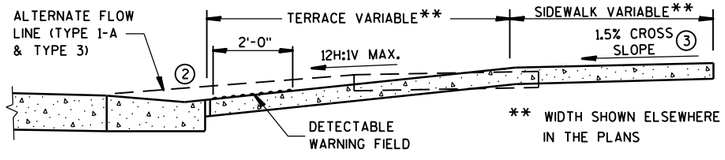
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

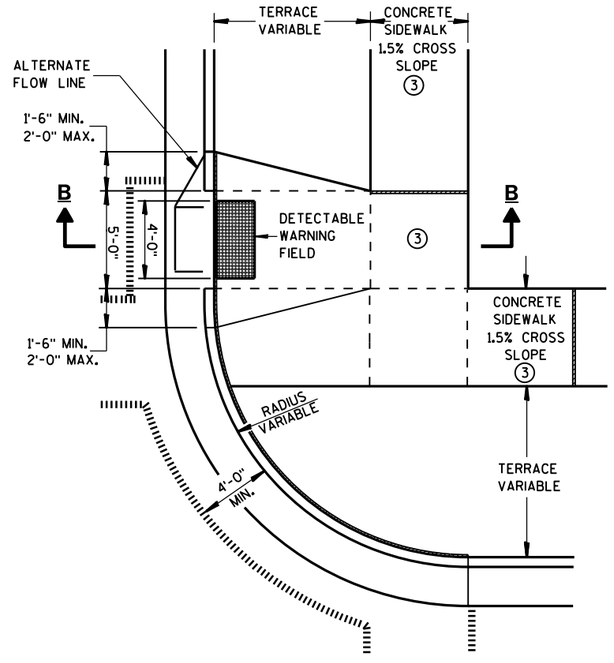
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

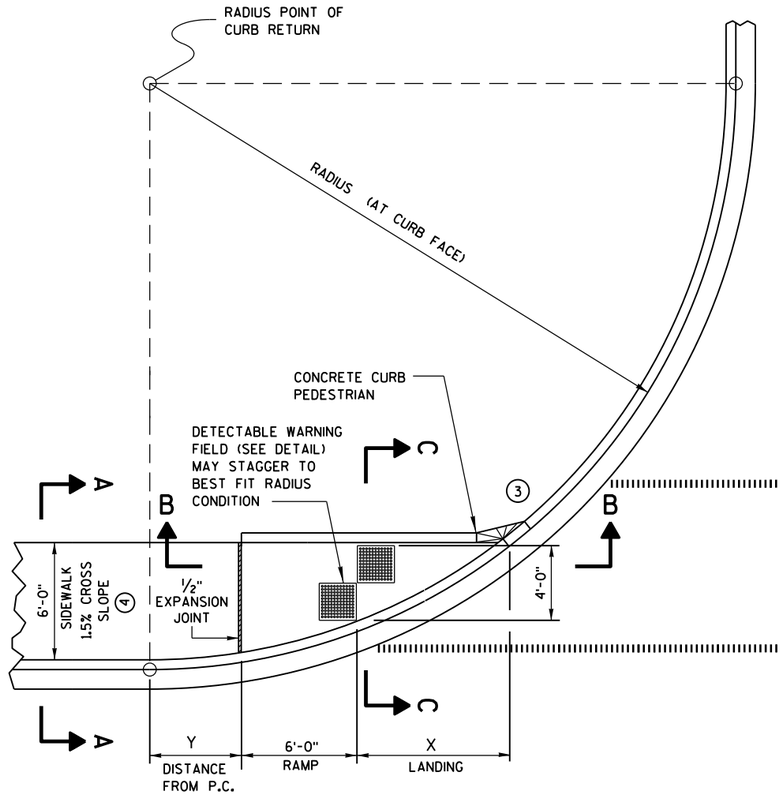
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS
TYPES 2 AND 3

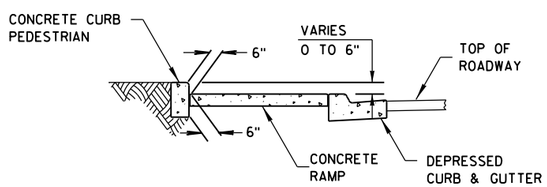
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

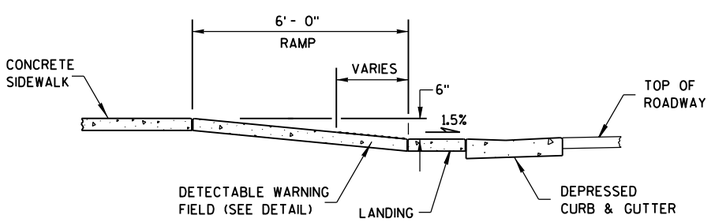
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



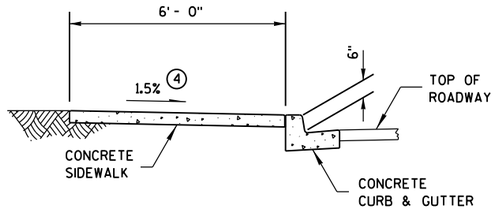
SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

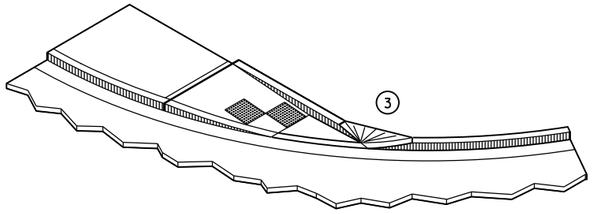
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

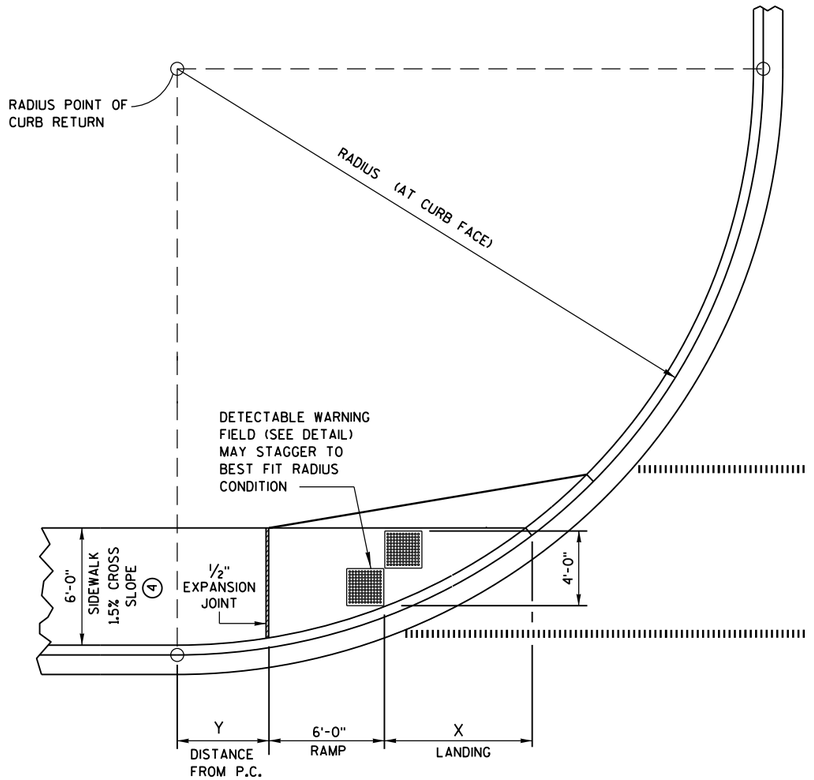
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

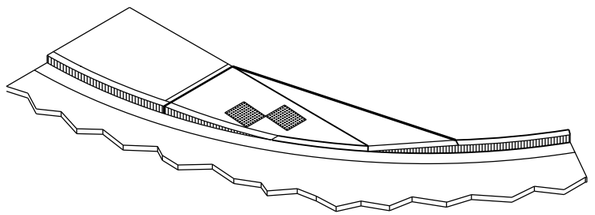
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

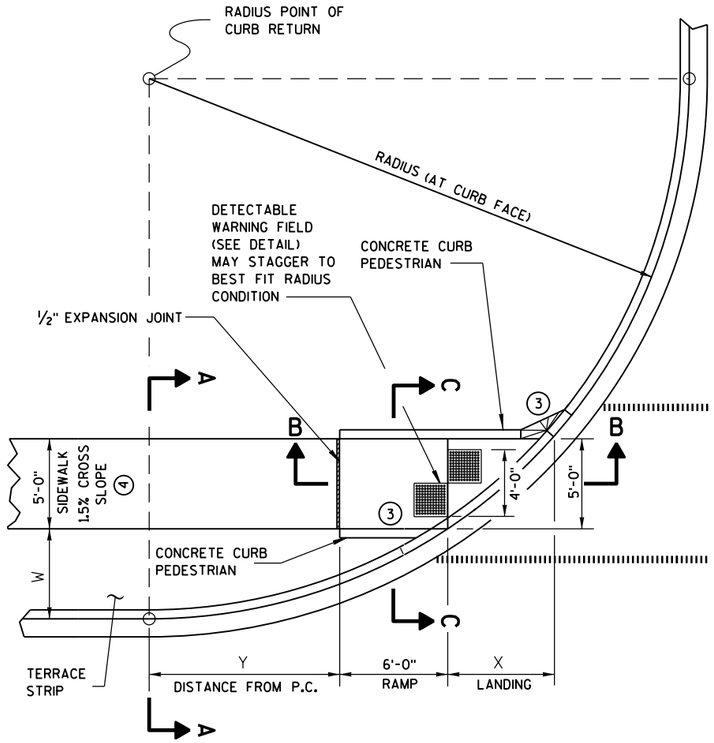
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

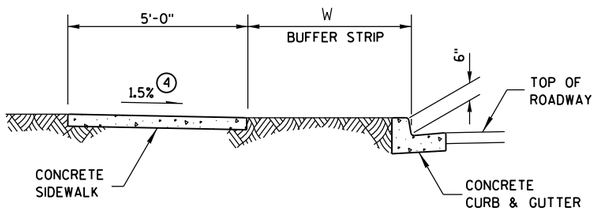
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

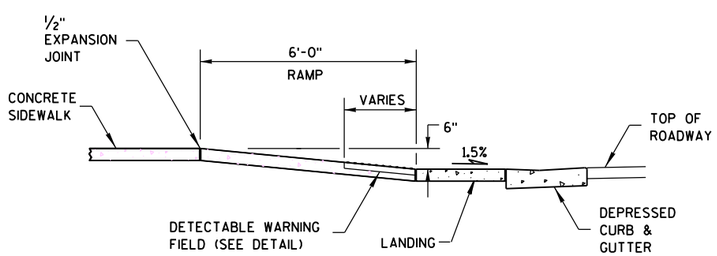
S.D.D. 8 D 5-15c



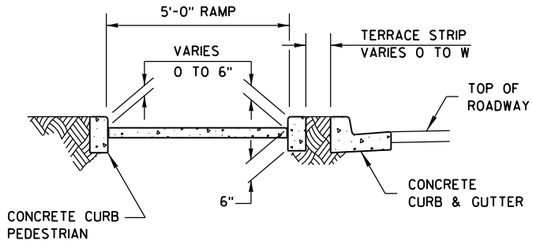
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

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'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

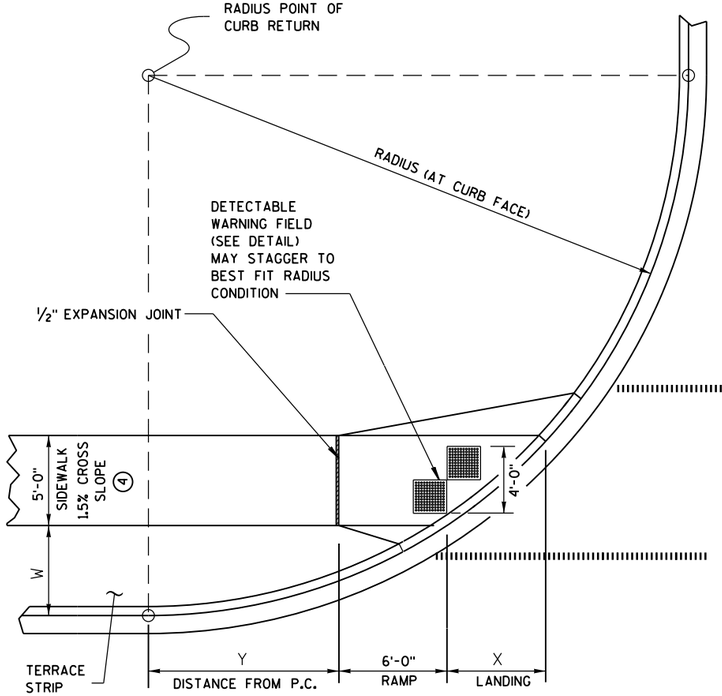
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

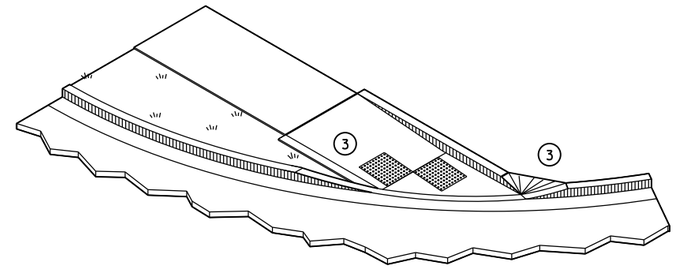
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

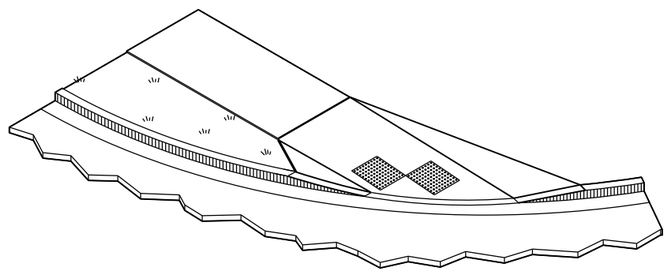
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



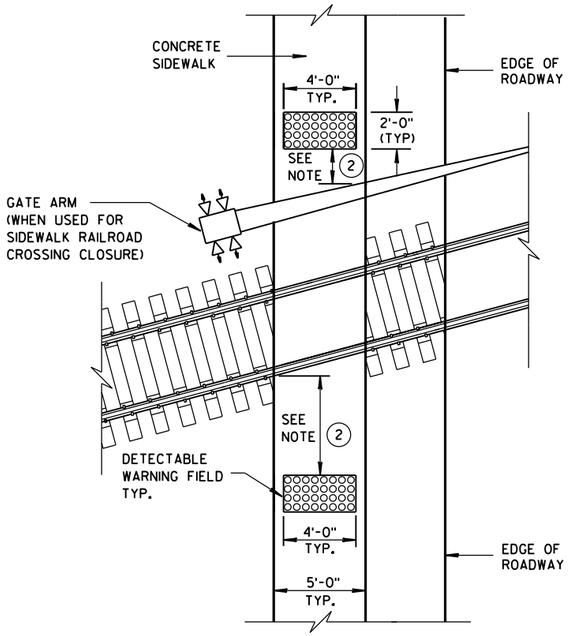
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

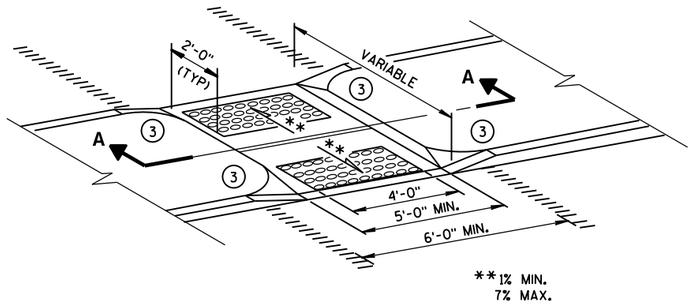
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

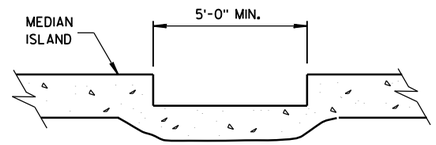
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

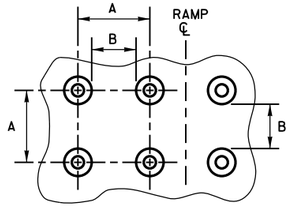
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



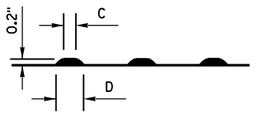
SECTION A-A



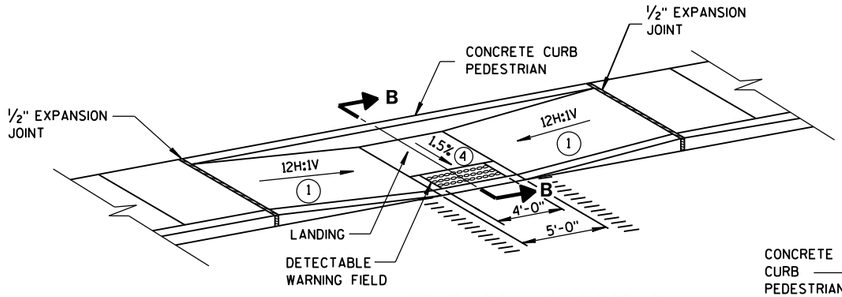
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

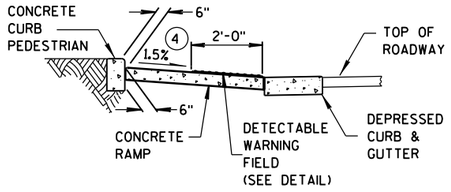
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

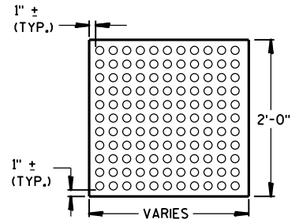


MID-BLOCK CROSSING
TYPE 7A



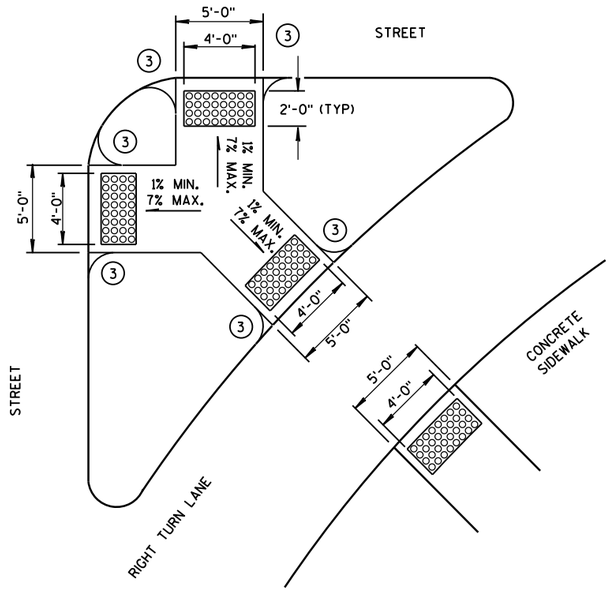
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

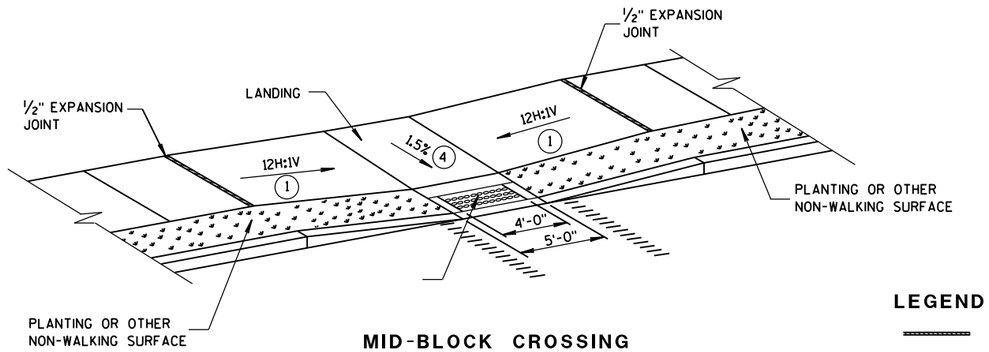


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



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

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

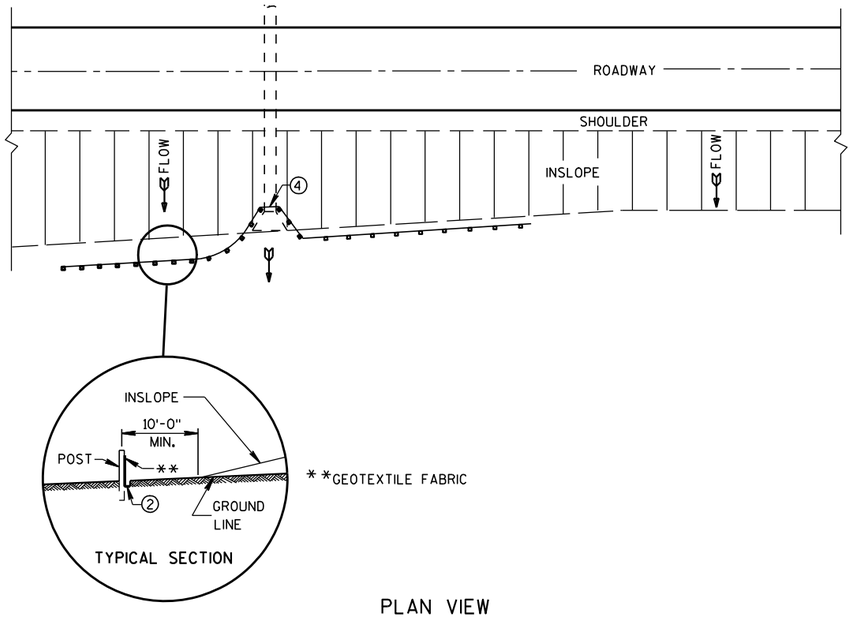
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

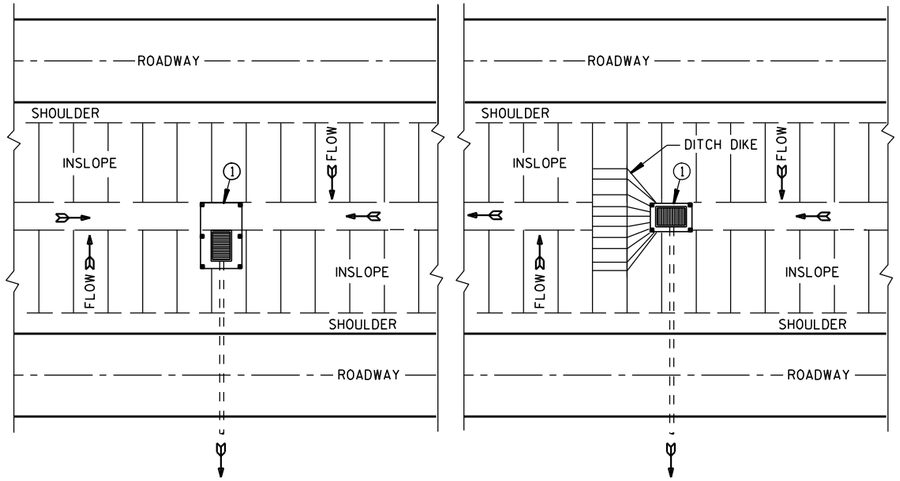
6

S.D.D. 8 D 5-15e



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



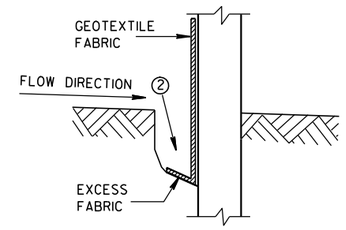
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

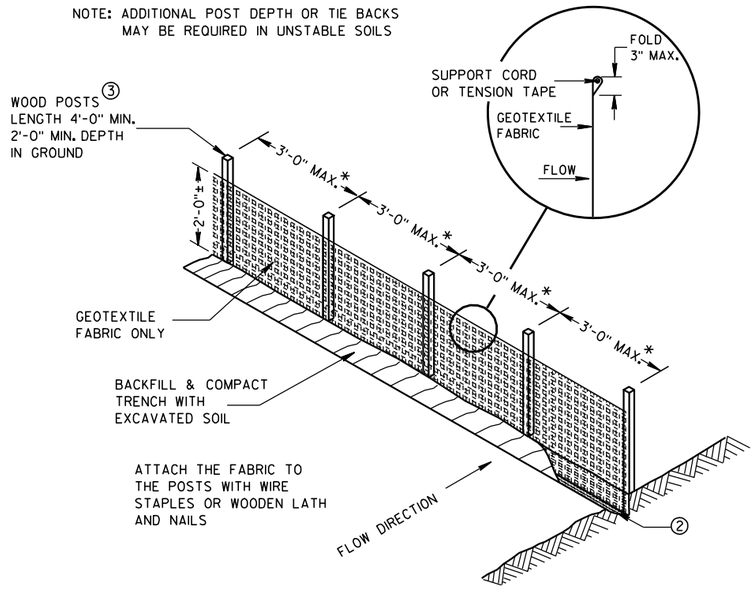
GENERAL NOTES

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.

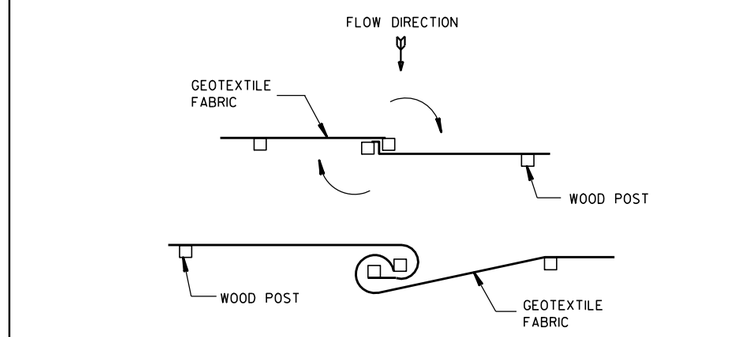


TRENCH DETAIL

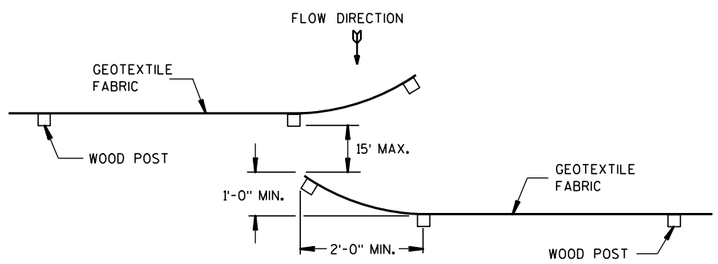


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

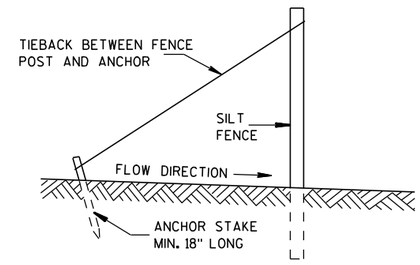


TWIST METHOD



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

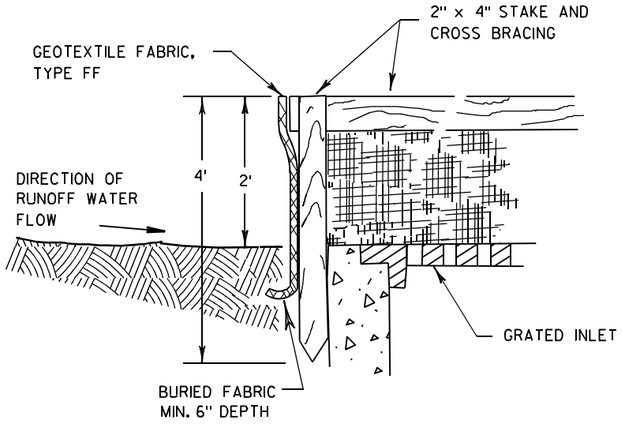
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

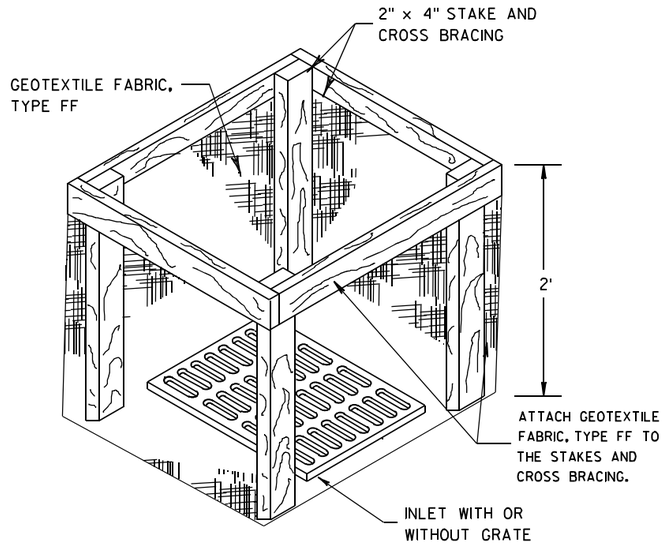
6

S.D.D. 8 E 9-6

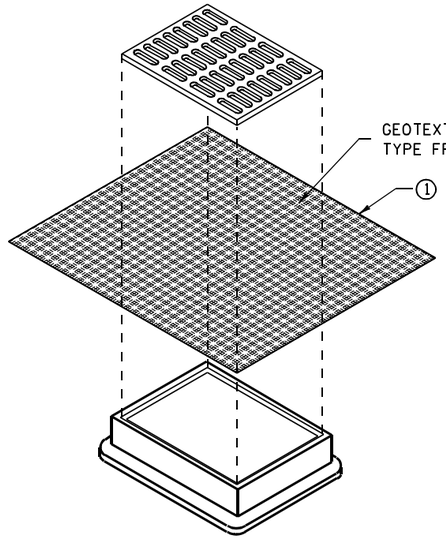
6

S.D.D. 8 E 9-6



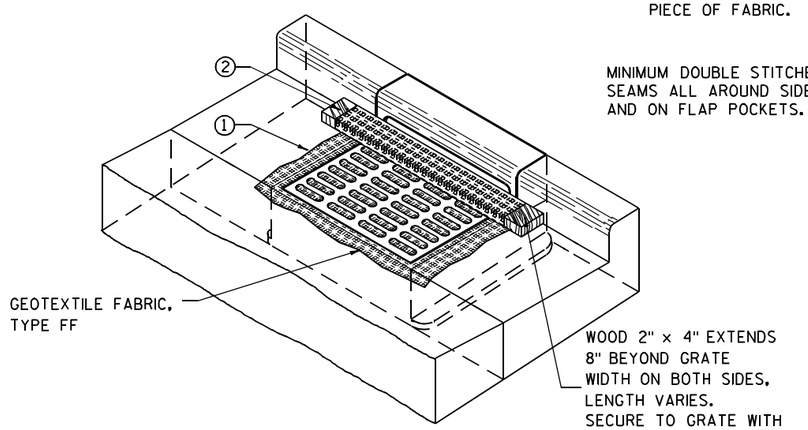


INLET PROTECTION, TYPE A

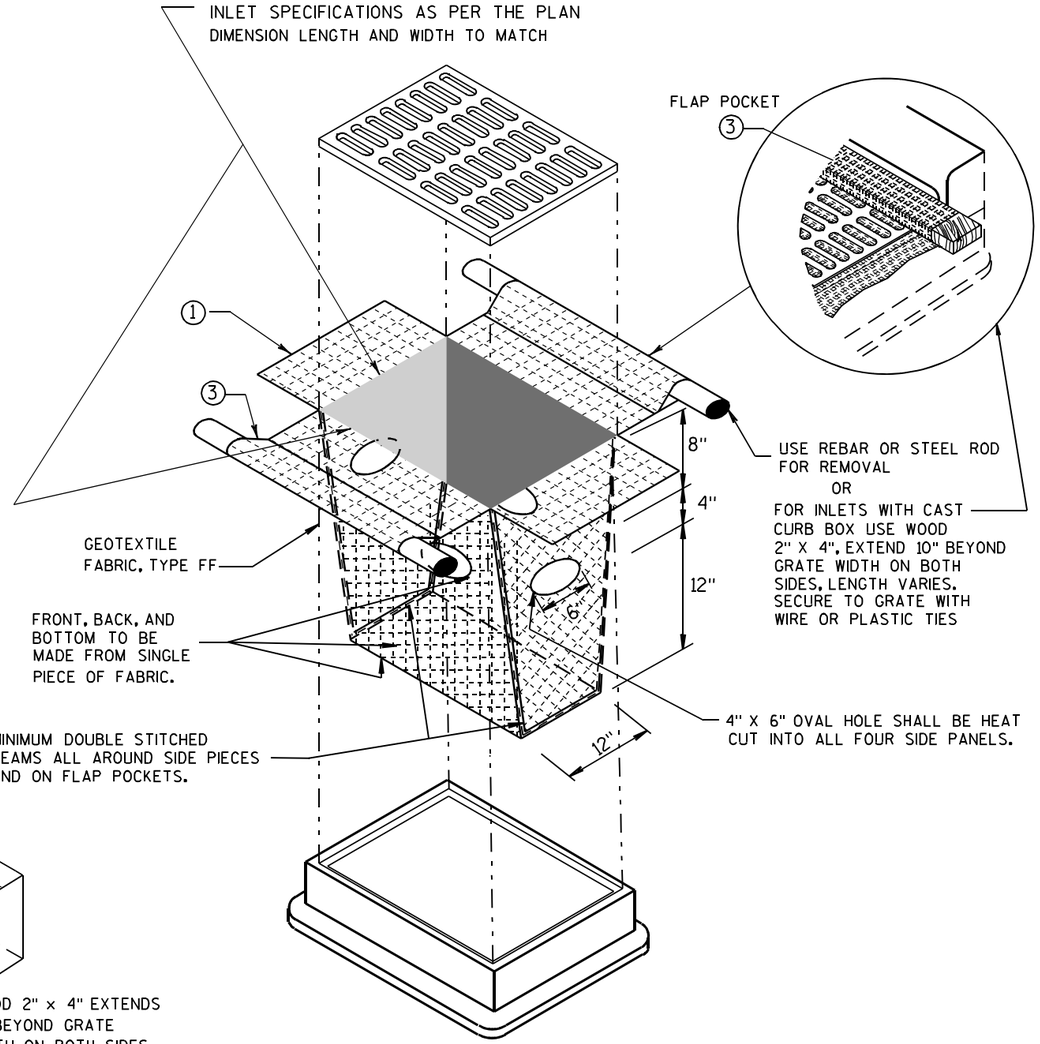


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

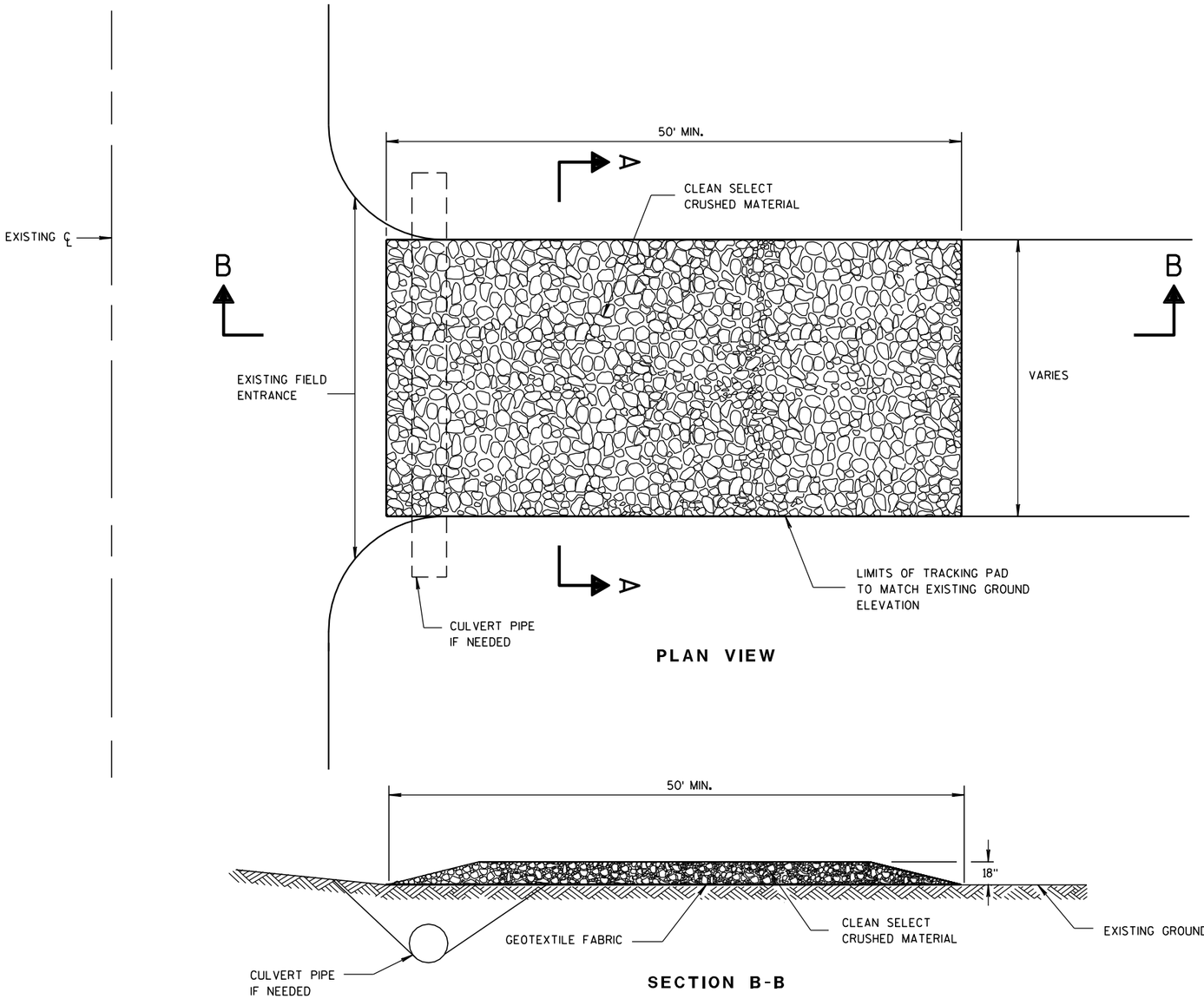
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

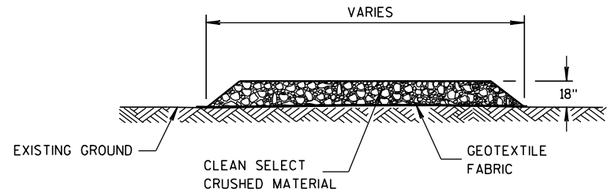
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

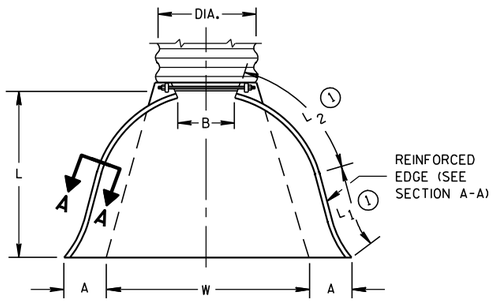
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

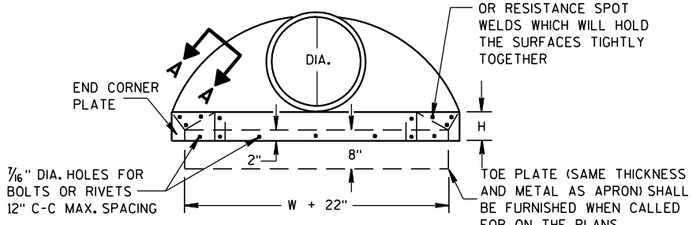
REINFORCED CONCRETE APRON ENDWALLS

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

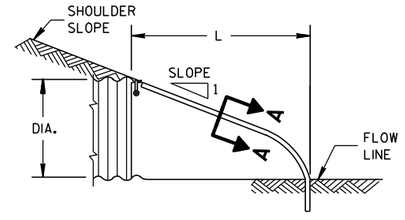
*MINIMUM
**MAXIMUM



PLAN VIEW

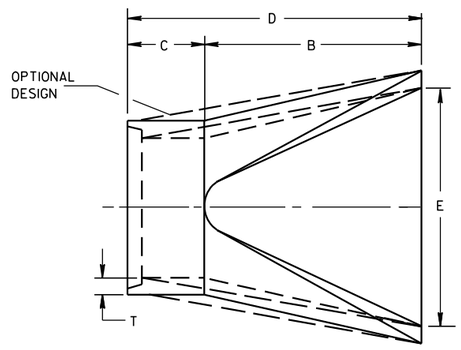


END VIEW

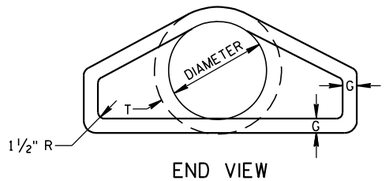


SIDE ELEVATION

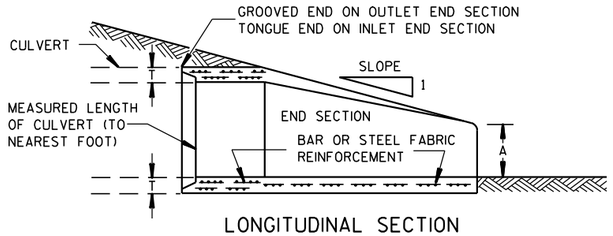
METAL ENDWALLS



PLAN

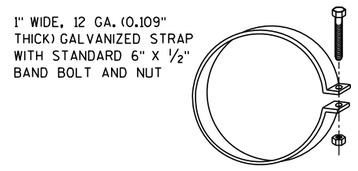


END VIEW



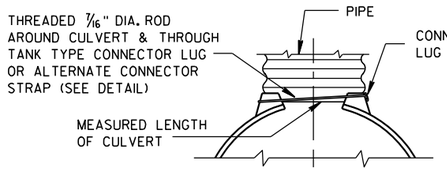
LONGITUDINAL SECTION

CONCRETE ENDWALLS

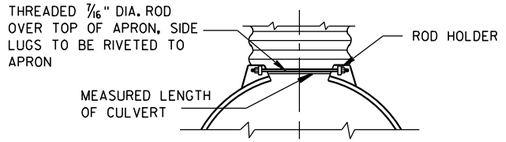


ALTERNATE FOR TYPE 1 CONNECTION

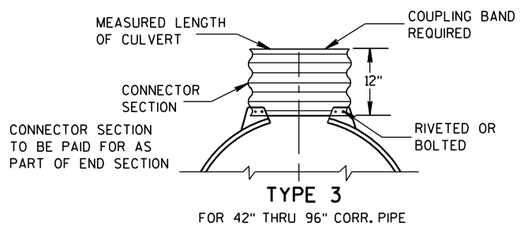
END SECTION CONNECTOR STRAP



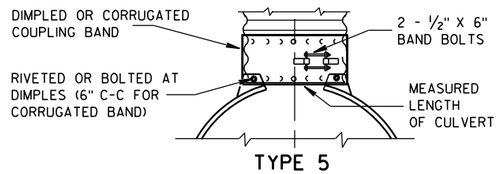
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

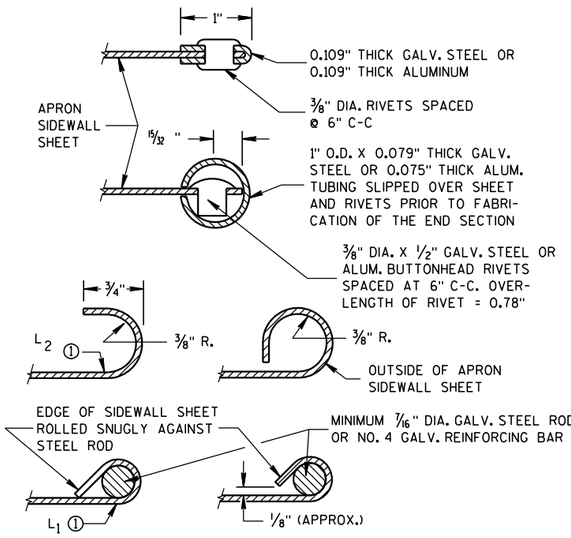
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

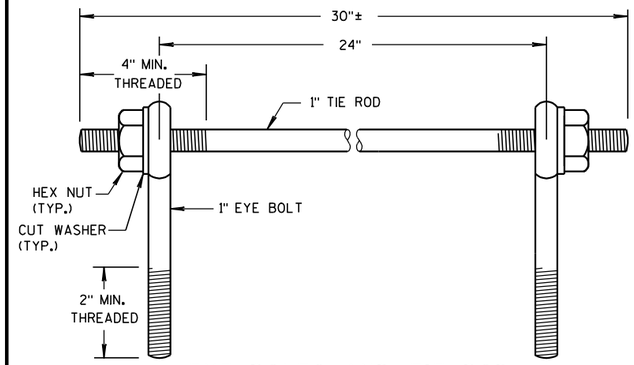
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

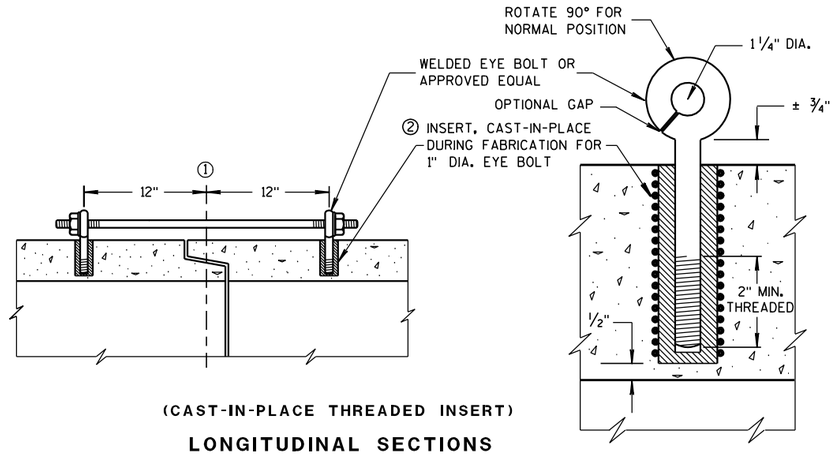
S.D.D. 8 F 1-11

6

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.

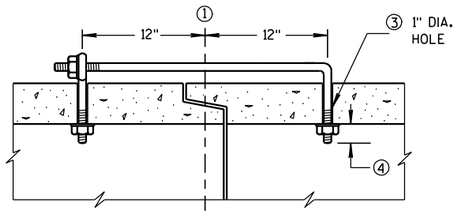
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

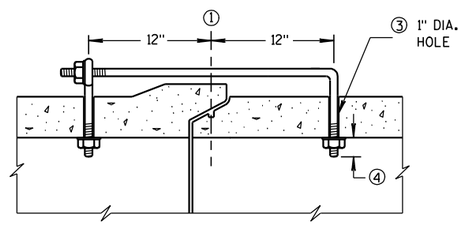
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

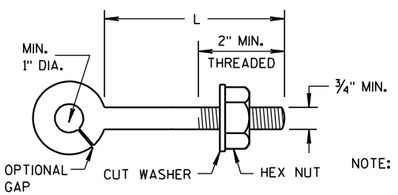


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

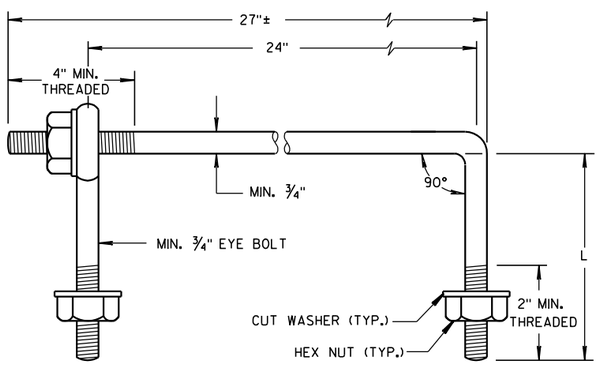
EYE BOLT DIMENSION TABLE

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"	



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

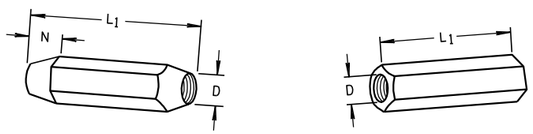
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

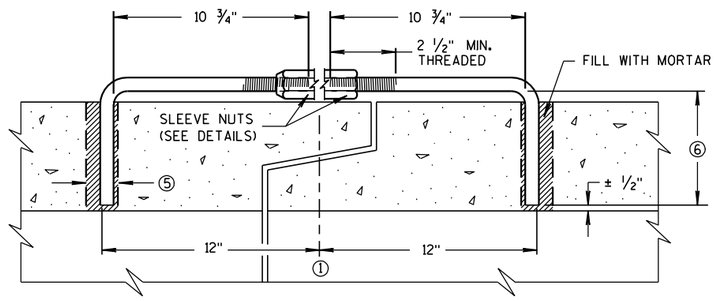
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

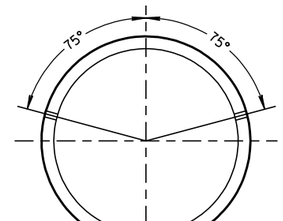
SLEEVE NUTS



LONGITUDINAL SECTION

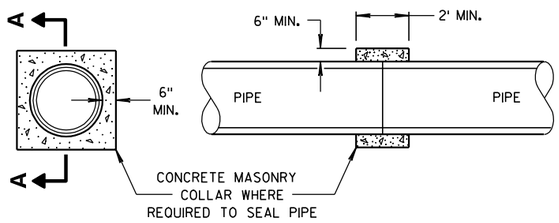
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

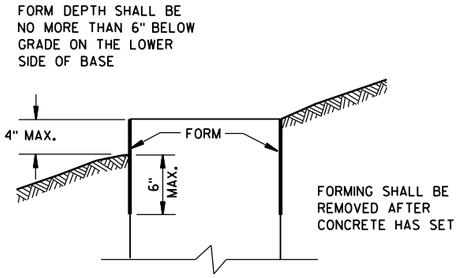
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
181
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7



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.

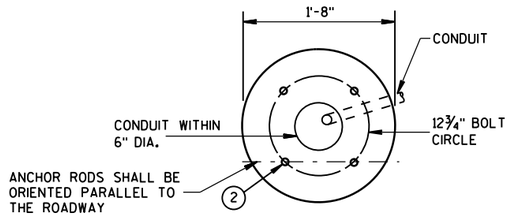
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

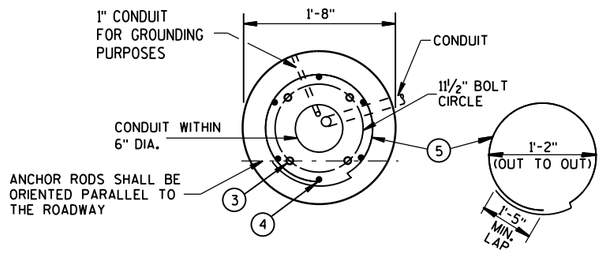
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

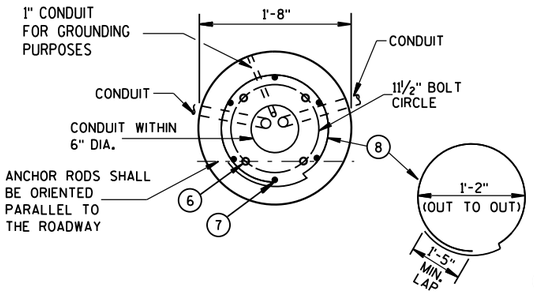
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

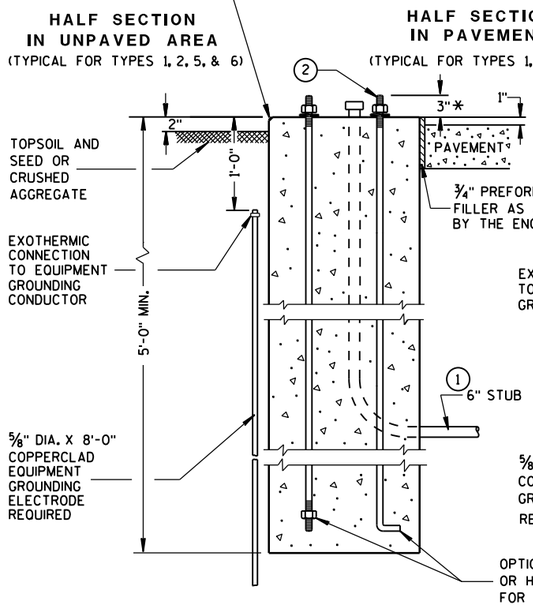
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

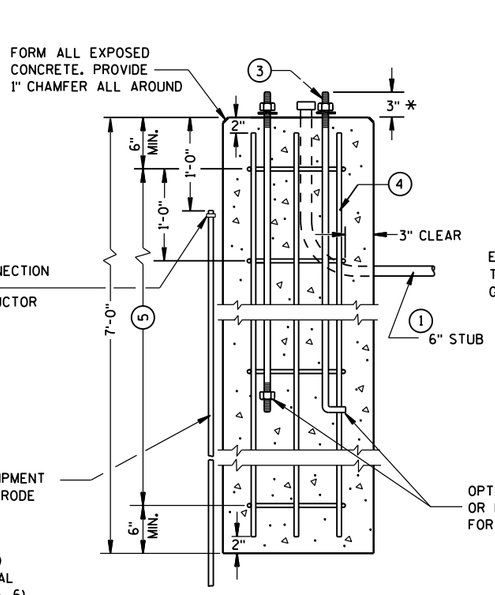
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



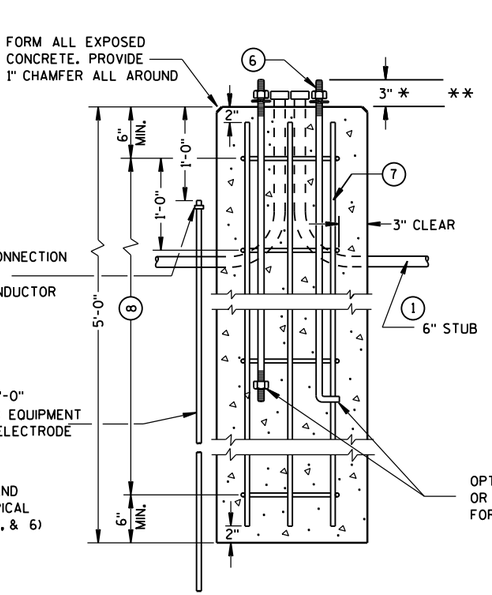








TYPE 2



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

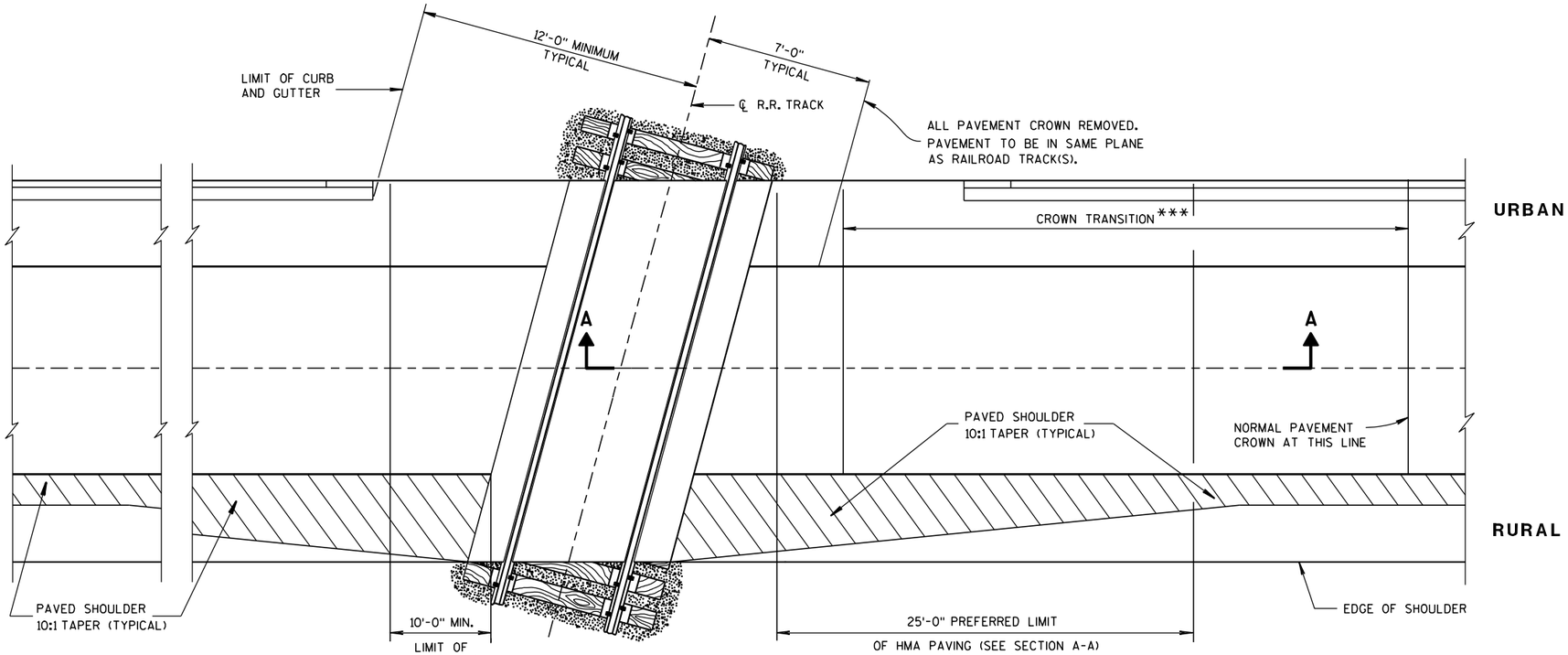
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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 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.

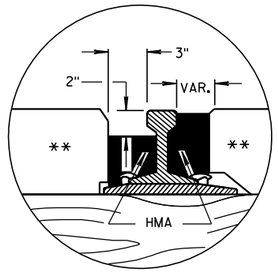
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

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.

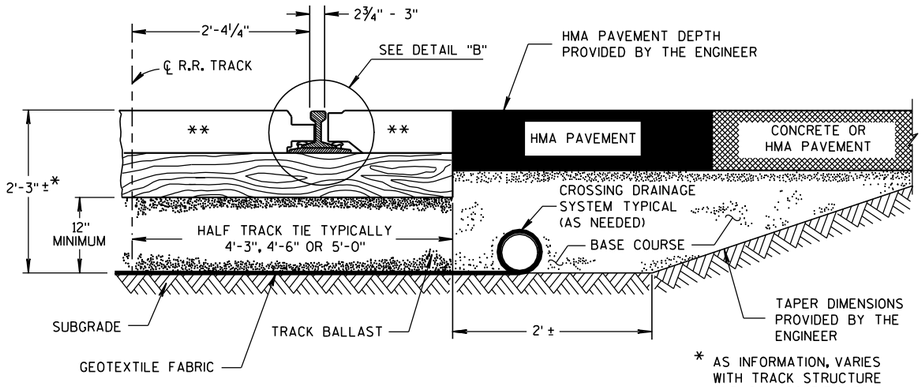
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

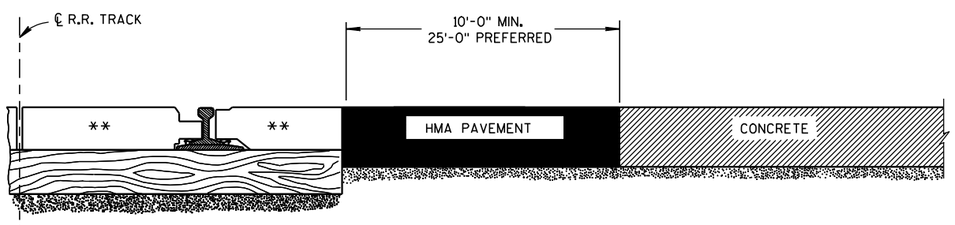
*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



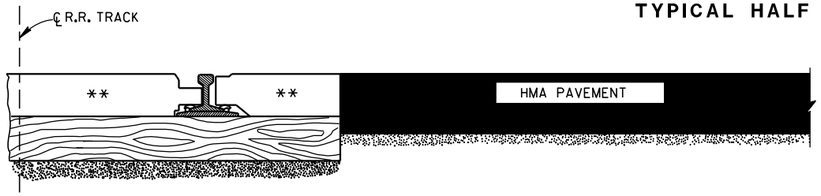
DETAIL B
HMA FLANGEWAY AND FIELD FILLERS



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

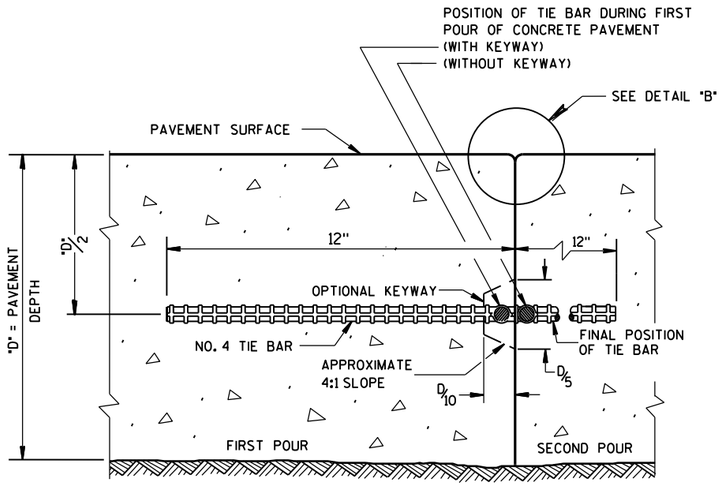
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI CTION
FHWA

6

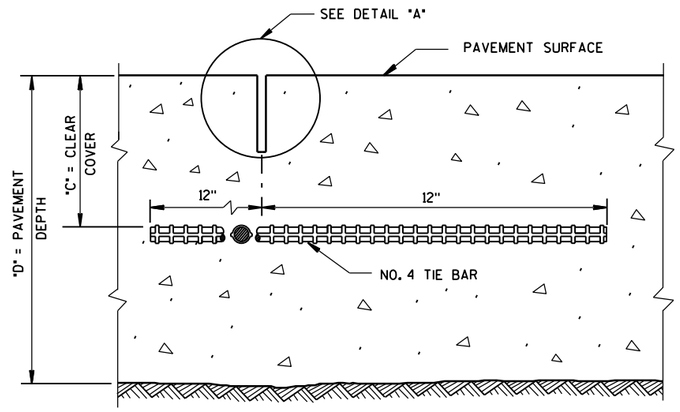
S.D.D. 13 B 1-10

6

S.D.D. 13 B 1-10



CONSTRUCTION JOINT



SAWED JOINT

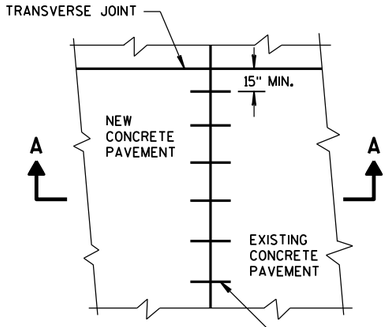
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

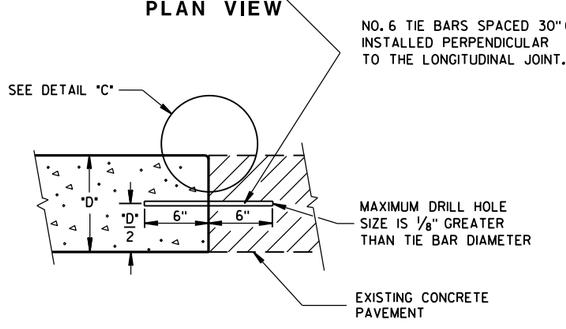
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

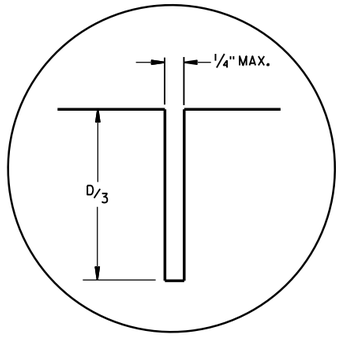


PLAN VIEW

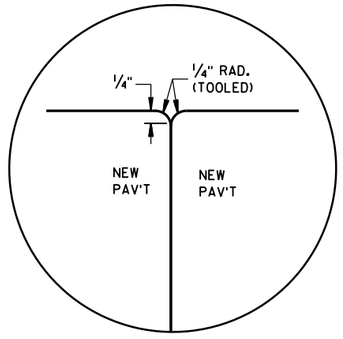


SECTION A-A

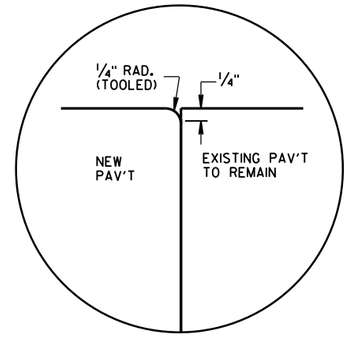
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



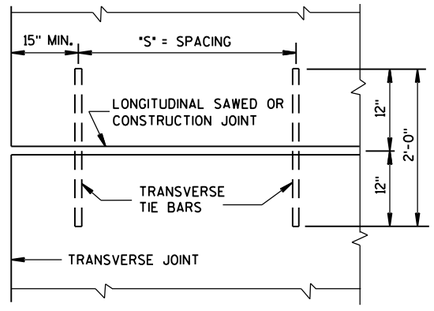
DETAIL "B"



DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥30'
6, 6 1/2"	3"±1/2"	48"	42"
7, 7 1/2"	3 1/4"±1"	45"	36"
8, 8 1/2"	3 3/4"±1"	39"	30"
9, 9 1/2"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 3/4"±1"	30"	24"
11, 11 1/2"	5 1/4"±1"	27"	21"
12"	5 3/4"±1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/2014 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE ... NEER
FHWA

6

S.D.D. 13 C 1-17

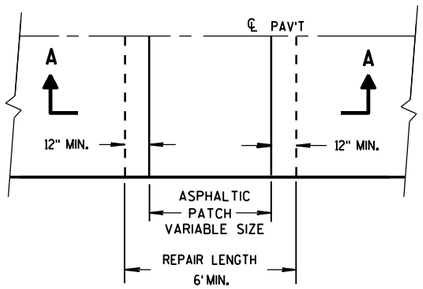
GENERAL NOTES

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. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

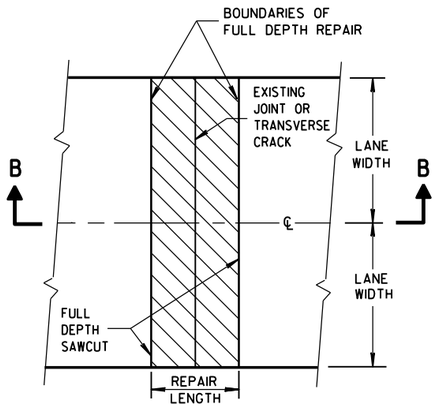
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

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.

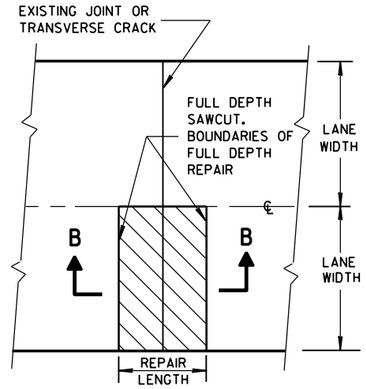
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW



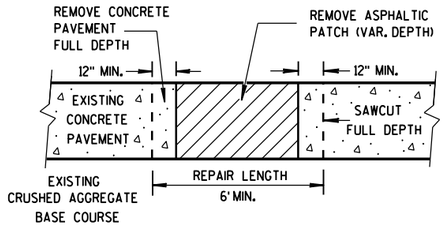
PLAN VIEW
(DOUBLE LANE REPAIR)



PLAN VIEW
(SINGLE LANE REPAIR)

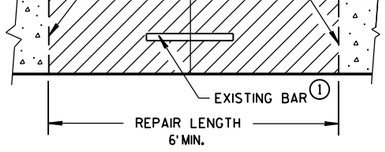
FULL DEPTH CONCRETE PAVEMENT REMOVAL

(SEE NOTE)



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

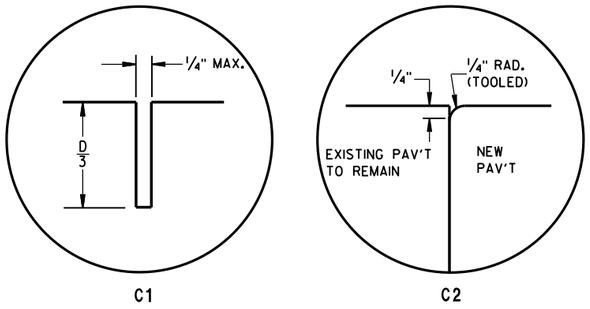
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

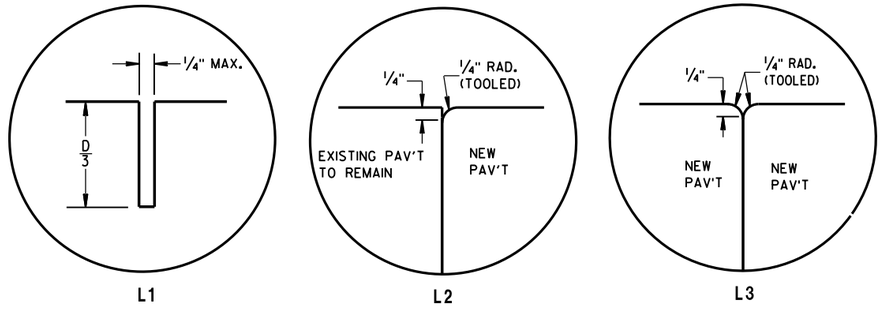
S.D.D. 13 C 9-11a



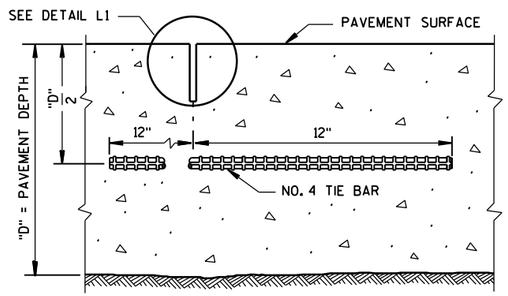
TRANSVERSE JOINTS

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 1/2"	3"±1/2"	48"	42"
7, 7 1/2"	3 1/4"±1"	45"	36"
8, 8 1/2"	3 3/4"±1"	39"	30"
9, 9 1/2"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 3/4"±1"	30"	24"
11, 11 1/2"	5 1/4"±1"	27"	21"
12"	5 3/4"±1"	24"	21"



LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

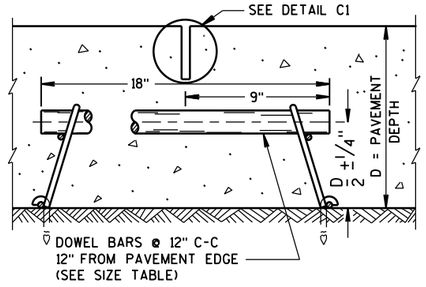
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

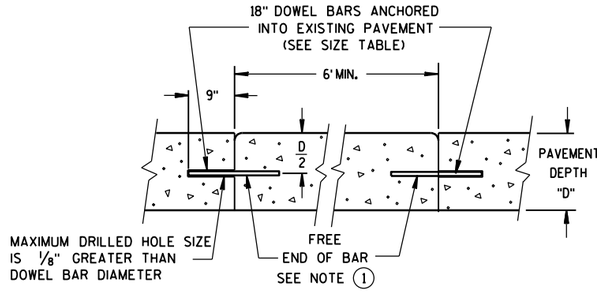
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

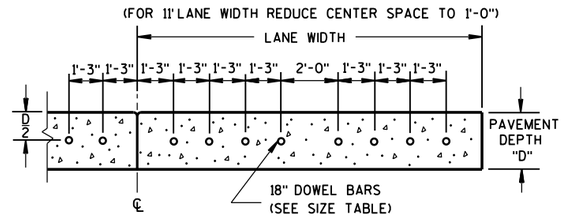


SECTION F-F

CONTRACTION JOINT



SECTION D-D

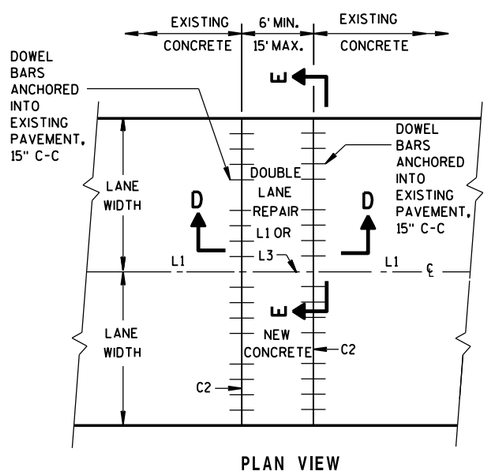


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

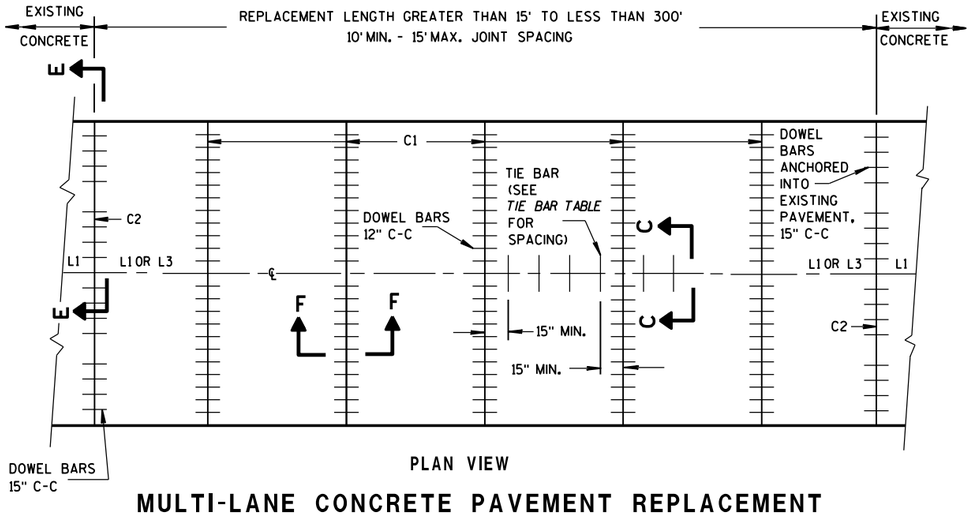
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8",8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

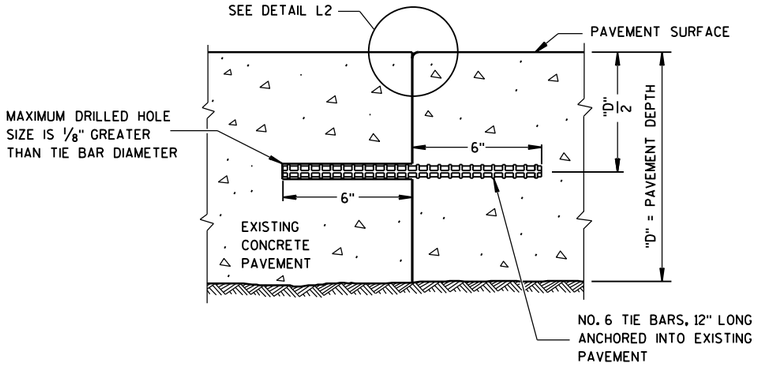
MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 13 C 9-11b

6



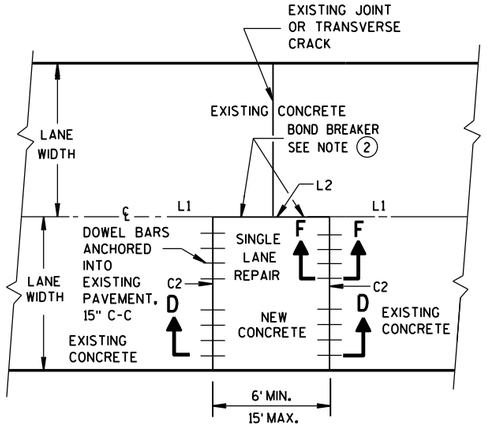
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

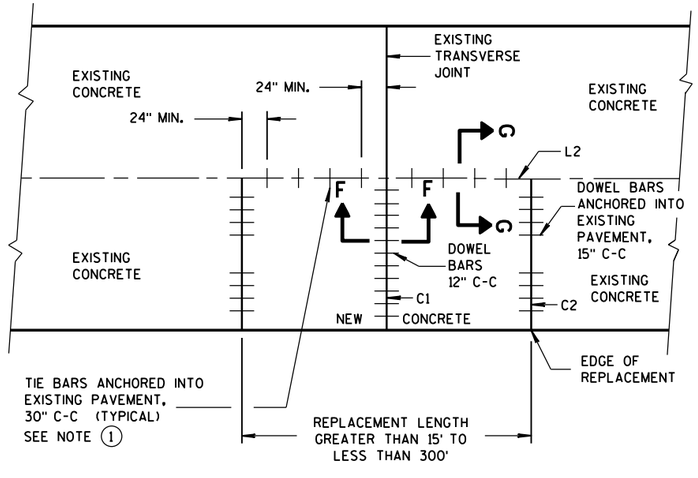
(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS 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.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

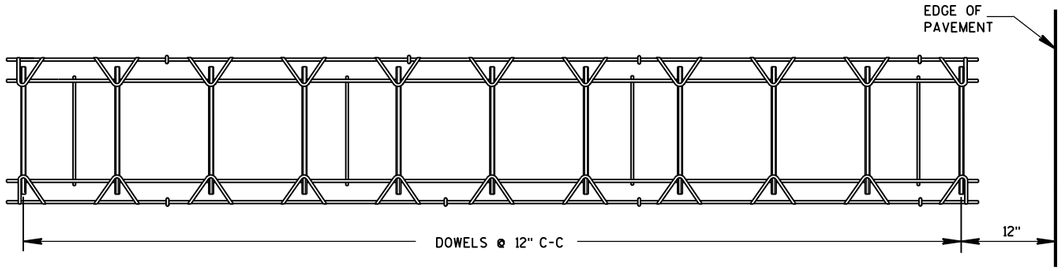
CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE
FHWA

6

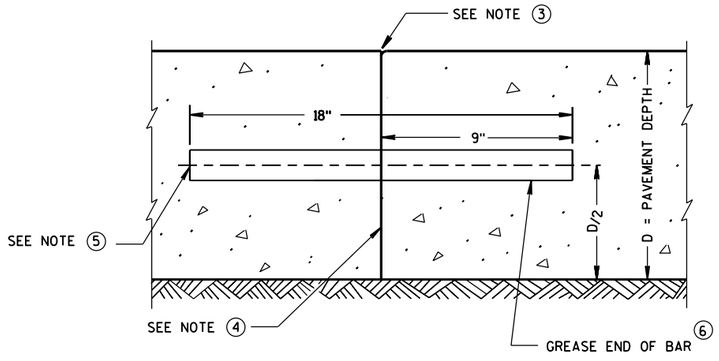
S.D.D. 13 C 9-11c



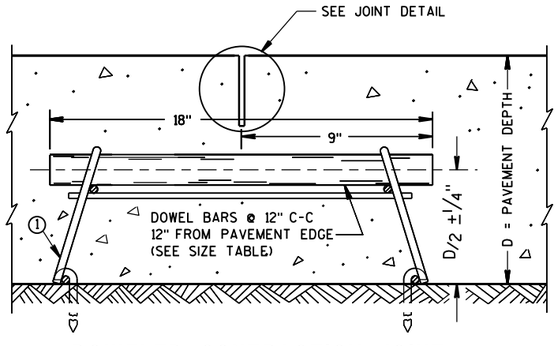
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



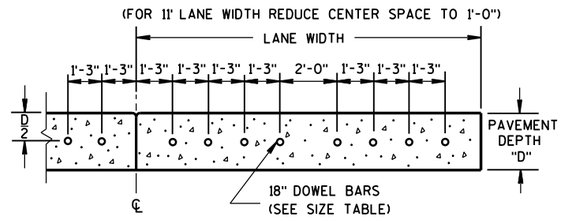
TRANSVERSE CONSTRUCTION JOINT



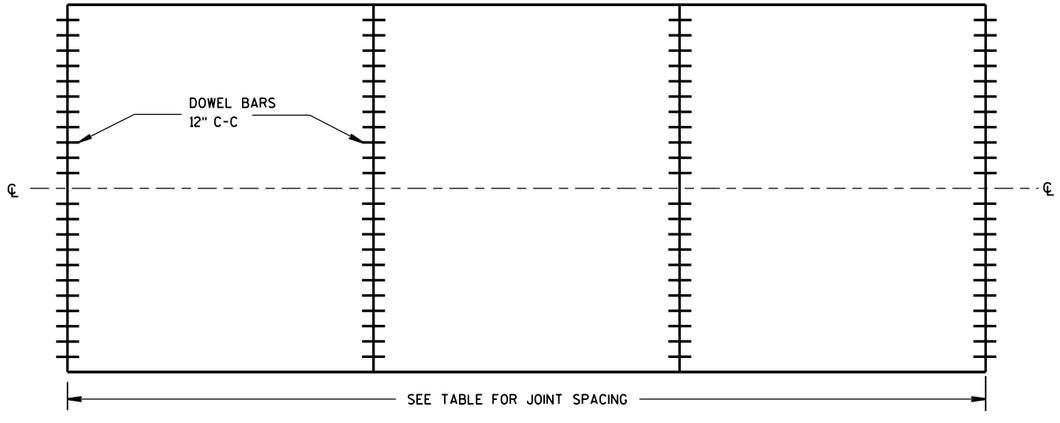
DOWELED CONTRACTION JOINT

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.

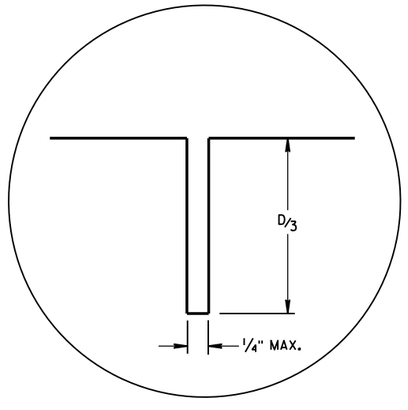
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

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

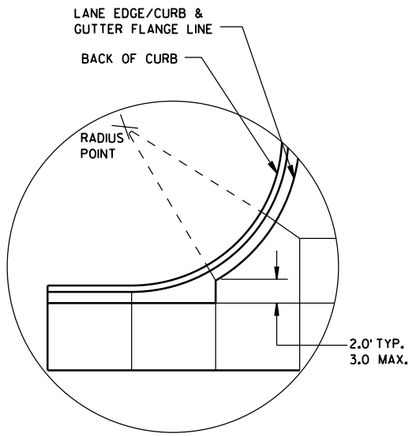
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

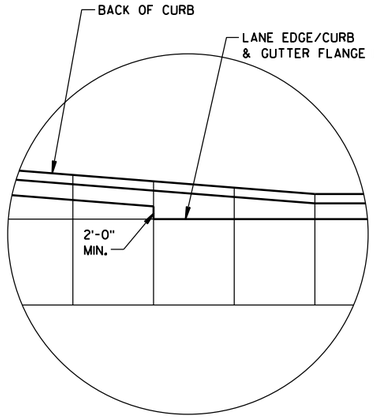
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

6

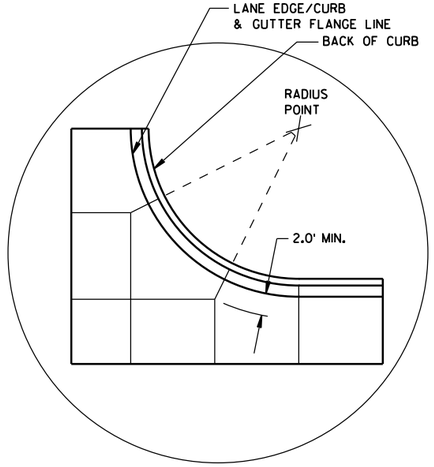
S.D.D. 13 C 13-8



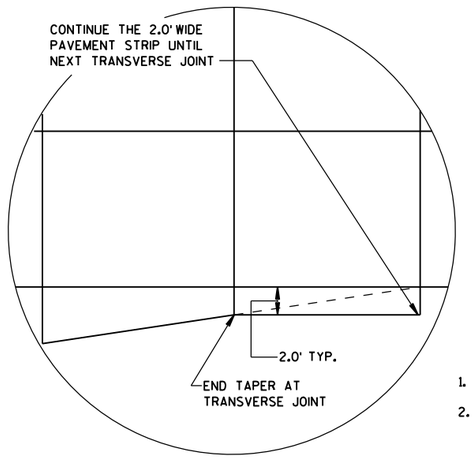
DETAIL "A"



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.

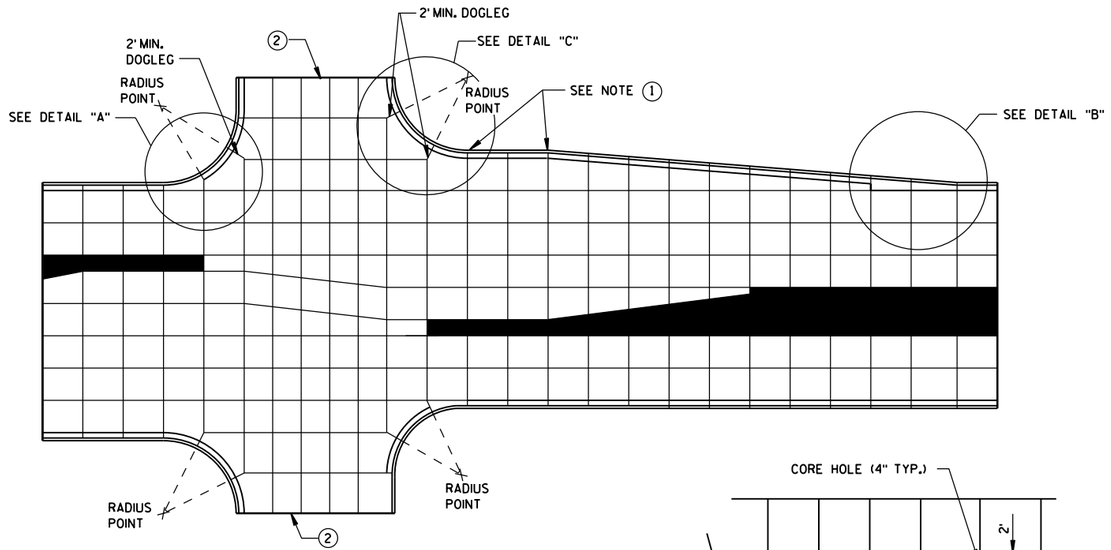
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

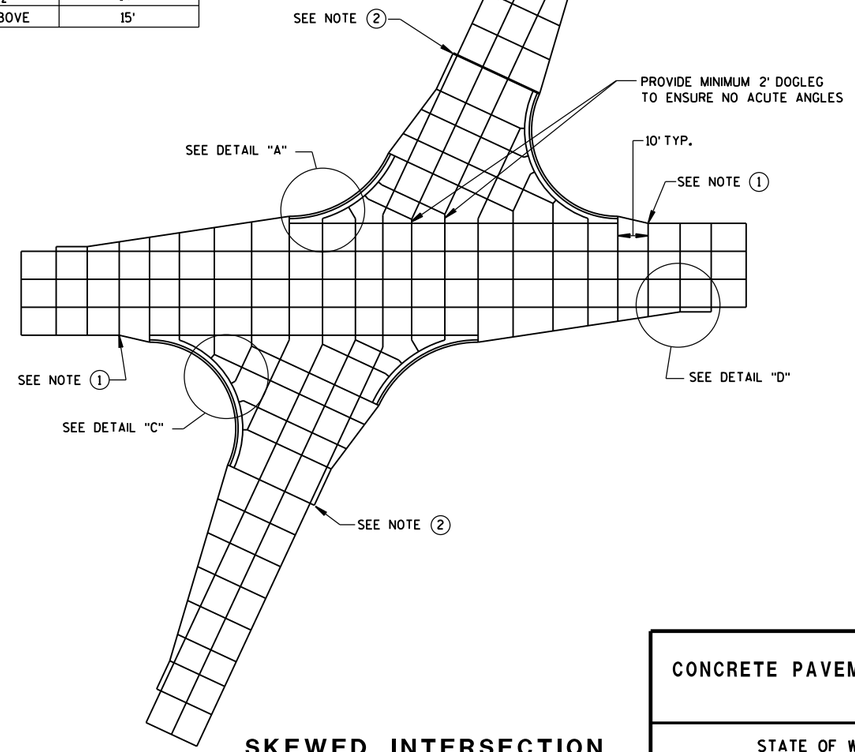
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



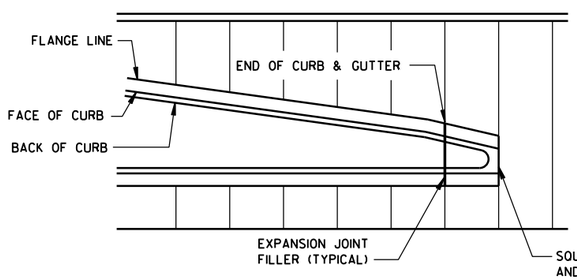
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

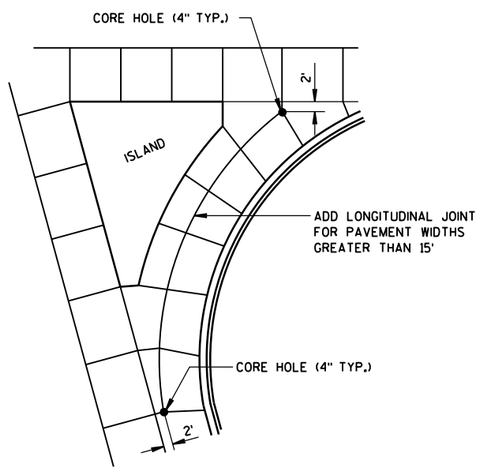
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

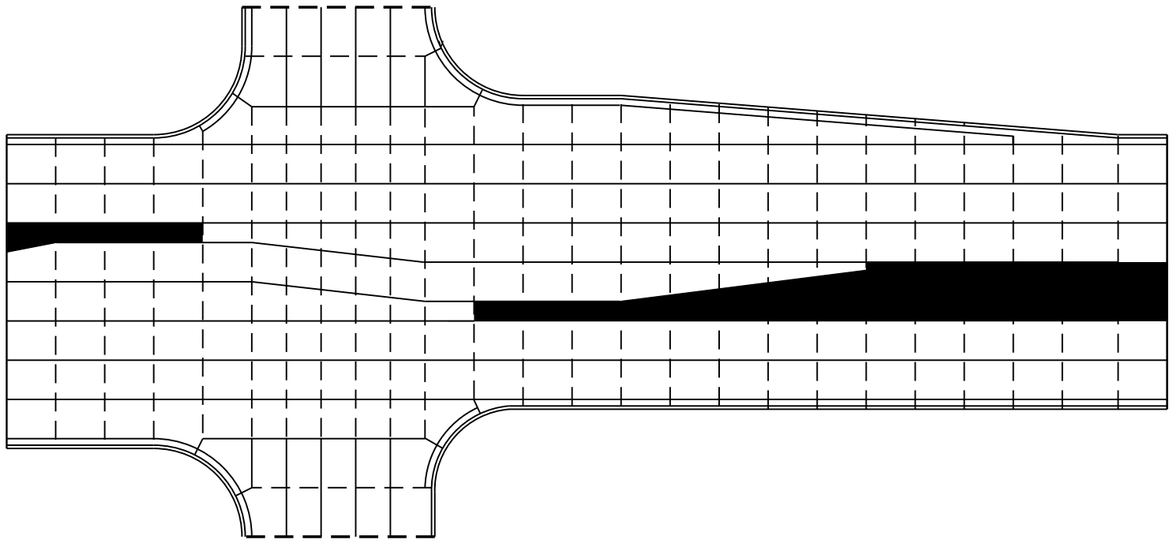
6
S.D.D. 13 C 18-2a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

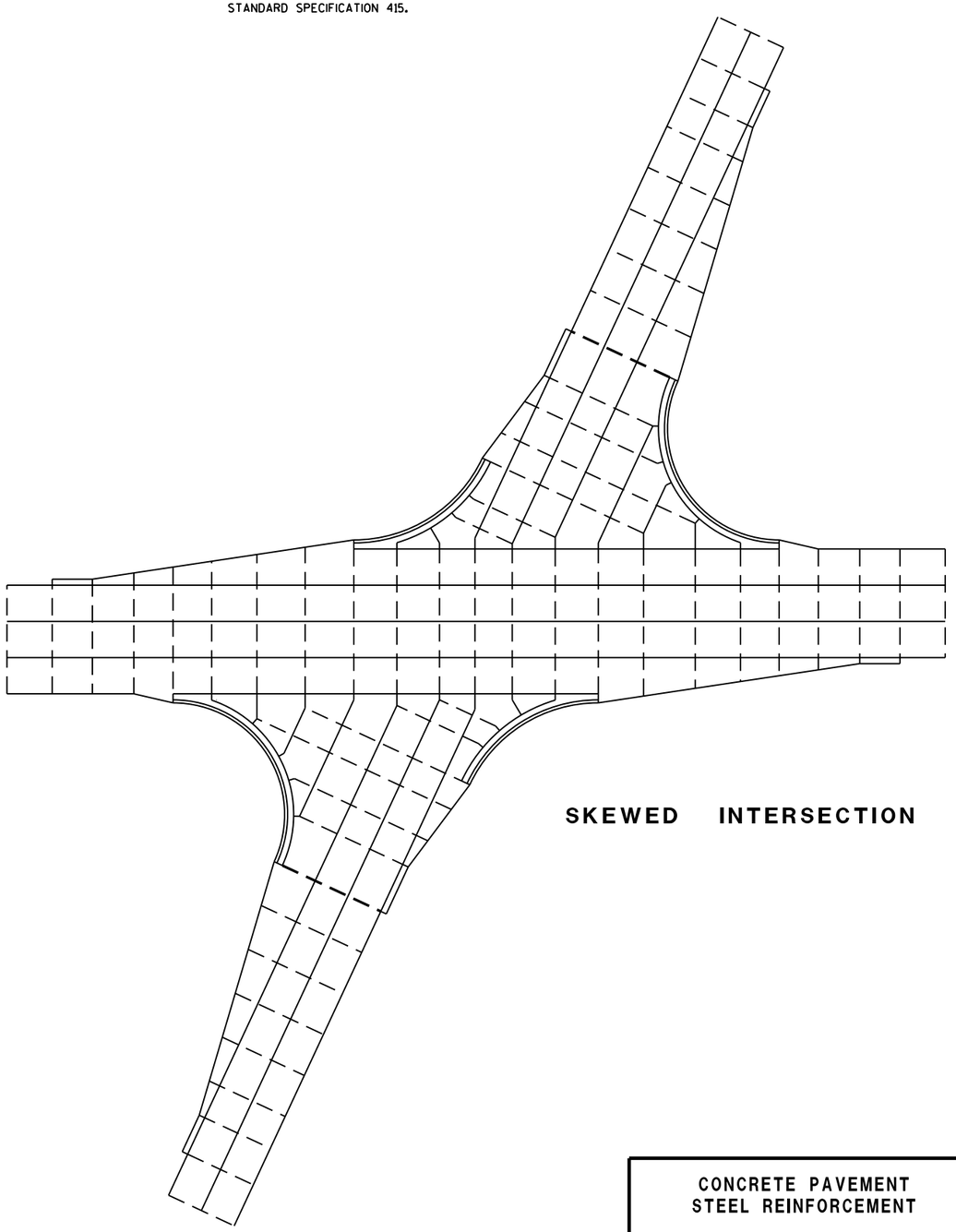
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

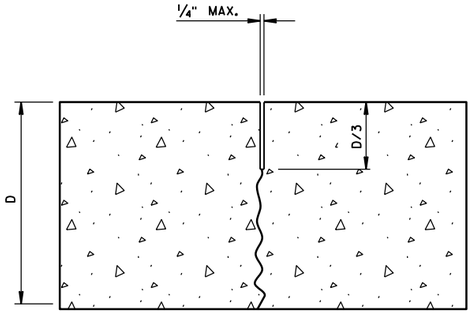
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

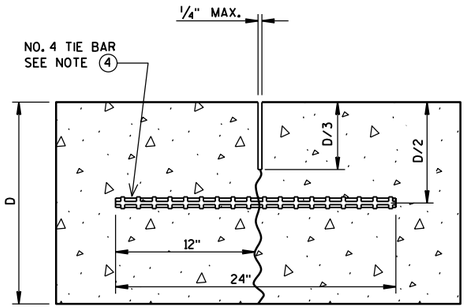
S.D.D. 13 C 18-2b

6

S.D.D. 13 C 18-2b



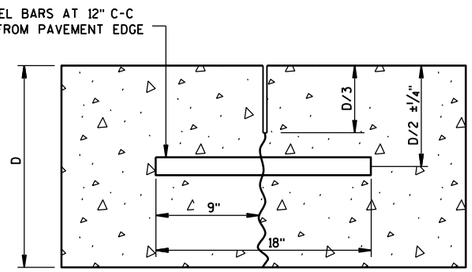
UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

GENERAL NOTES

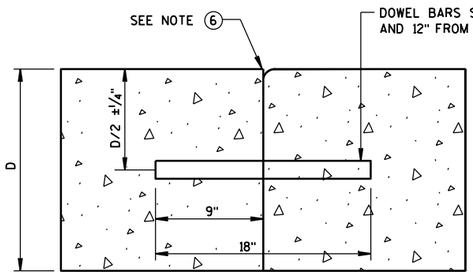
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



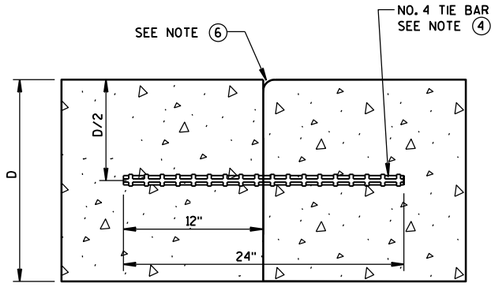
DOWELED-TRANSVERSE

CONTRACTION JOINTS

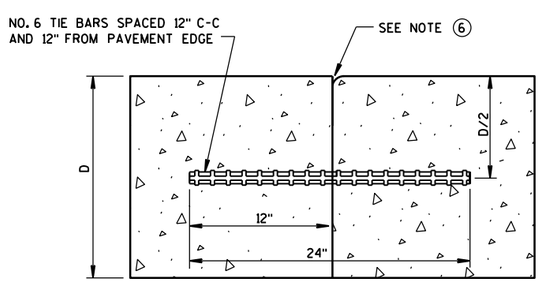
SEE NOTE (2)



DOWELED TRANSVERSE

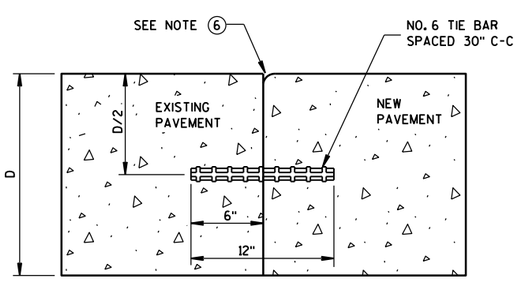


TIED LONGITUDINAL



TIED TRANSVERSE

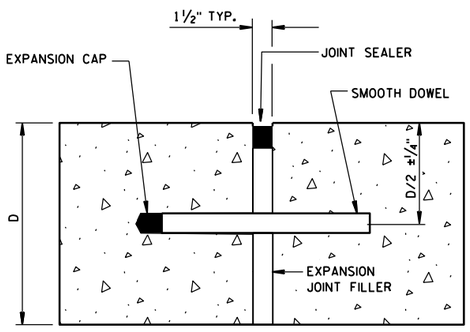
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

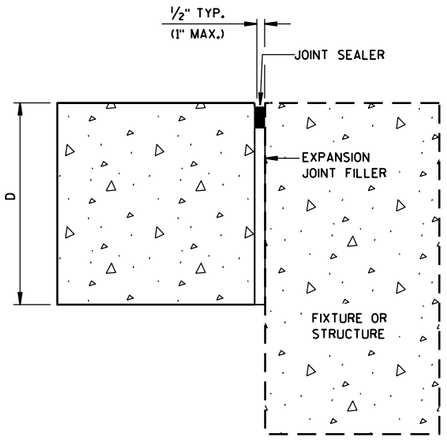
CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

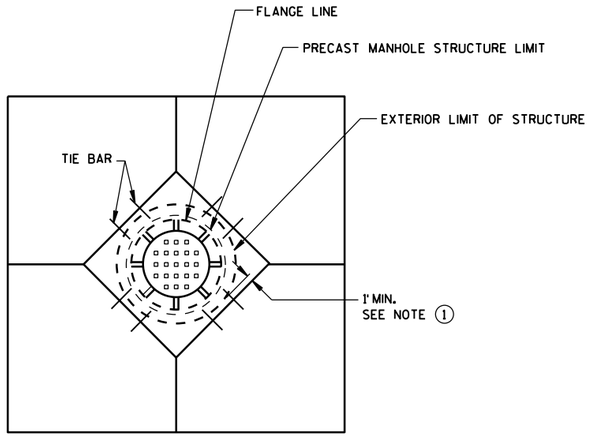
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

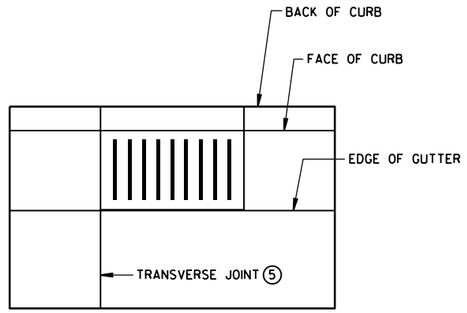
S.D.D. 13 C 18-2c

6

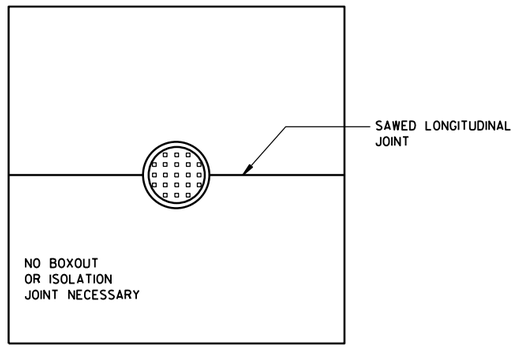
S.D.D. 13 C 18-2c



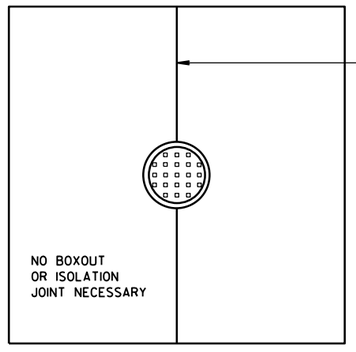
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



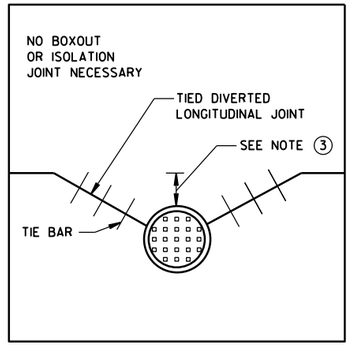
INLET WITH TRANSVERSE JOINT



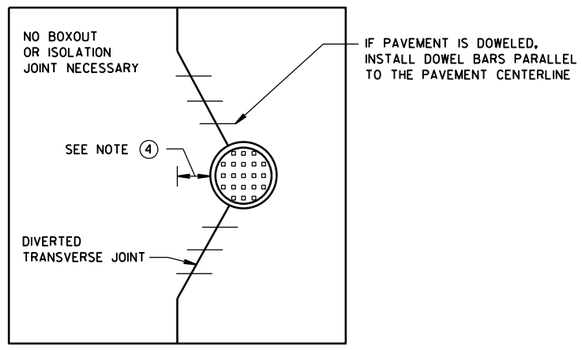
MANHOLE WITH LONGITUDINAL JOINT



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

5-3-2013
DATE

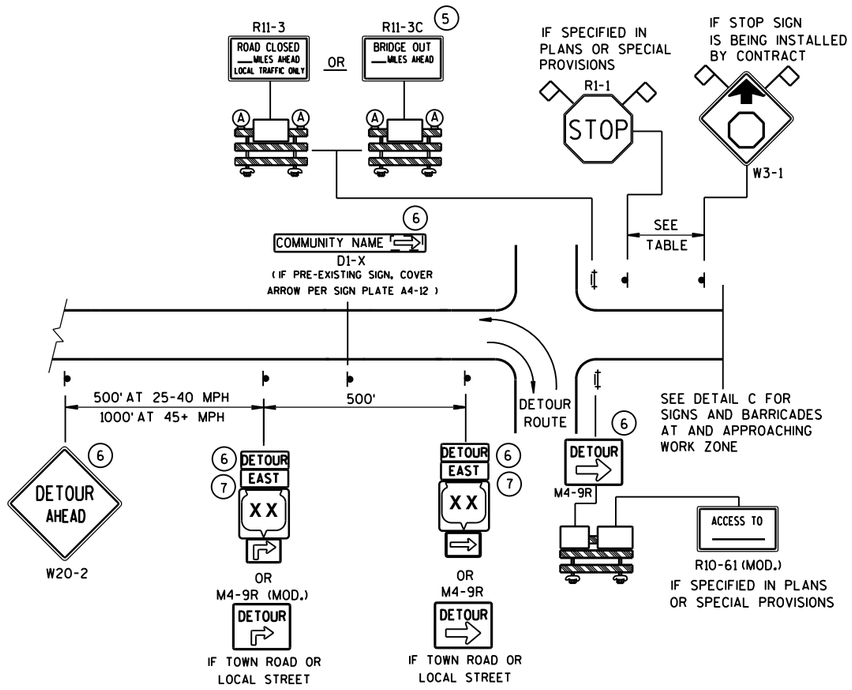
/S/ Deb Bischoff
PAVEMENT POLICY & DE

NEER

FHWA

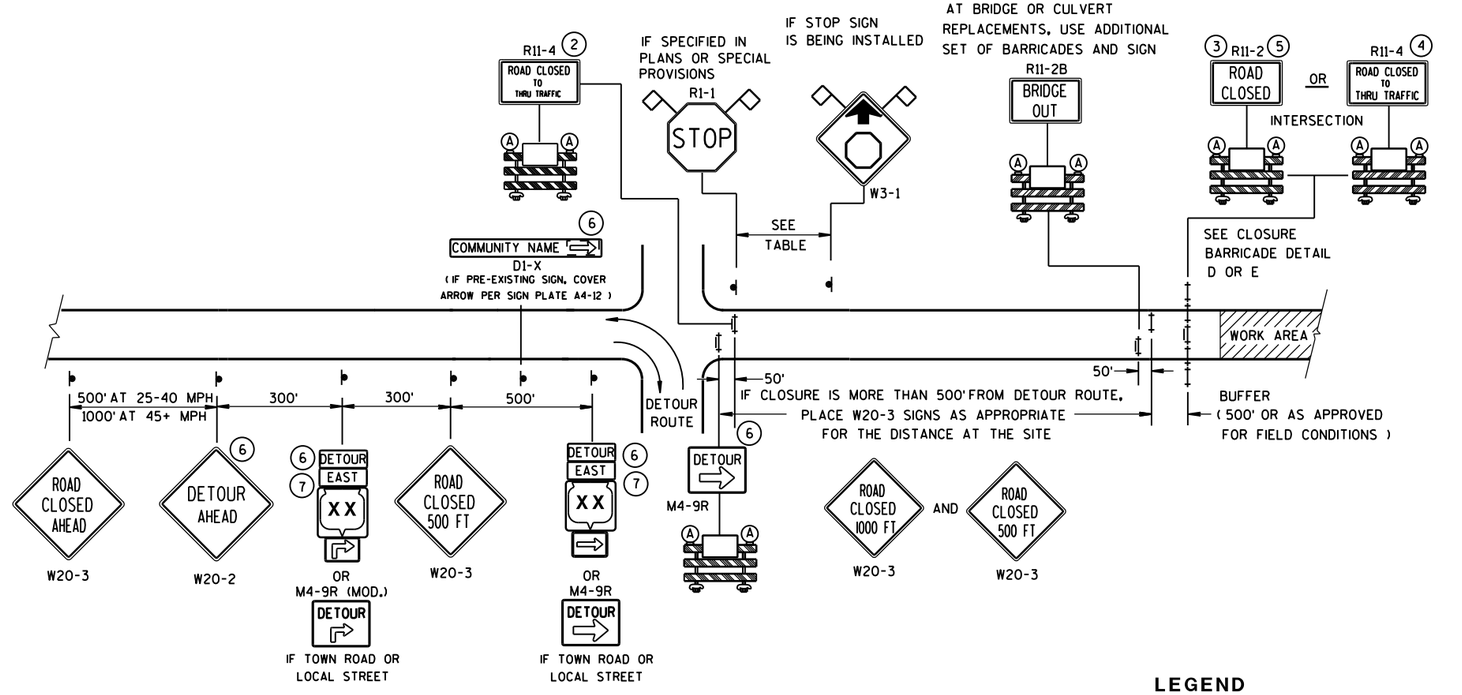
6

S.D.D. 13 C 18-2d



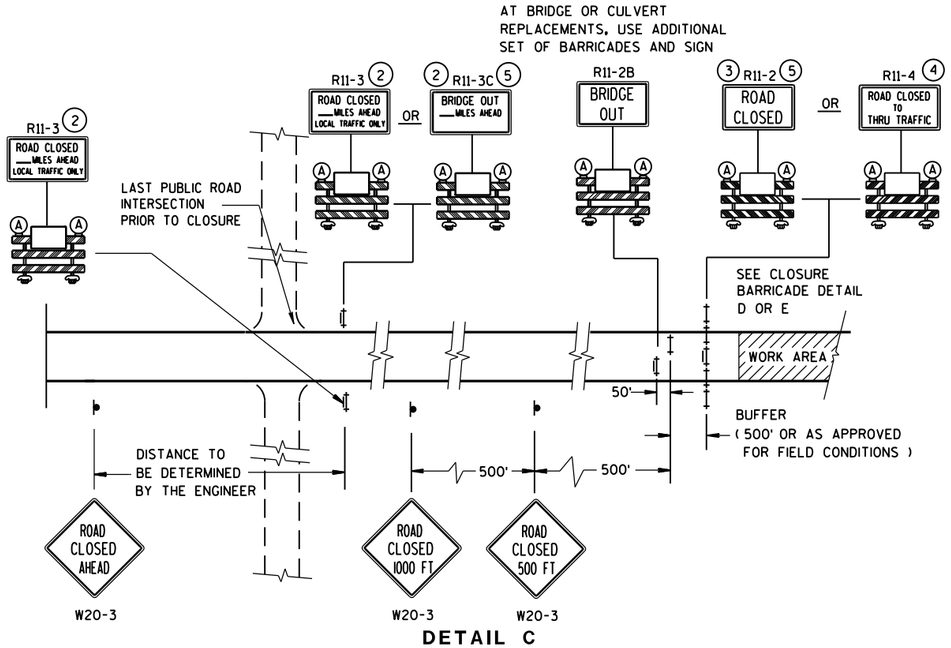
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

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)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

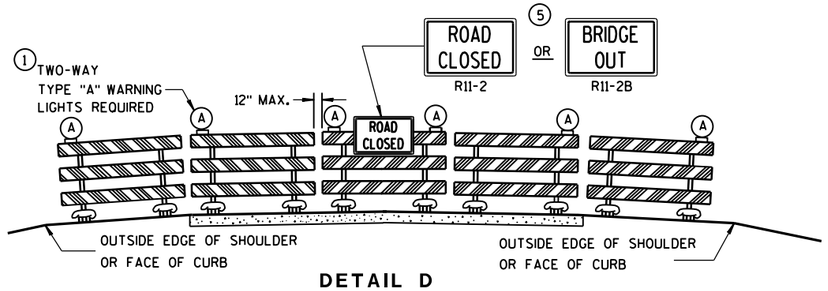
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

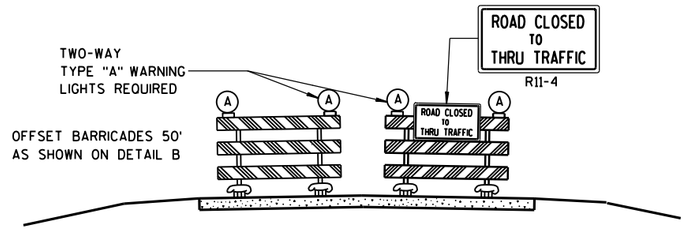
S.D.D. 15 C 2-5a



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

8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 2-5b

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.

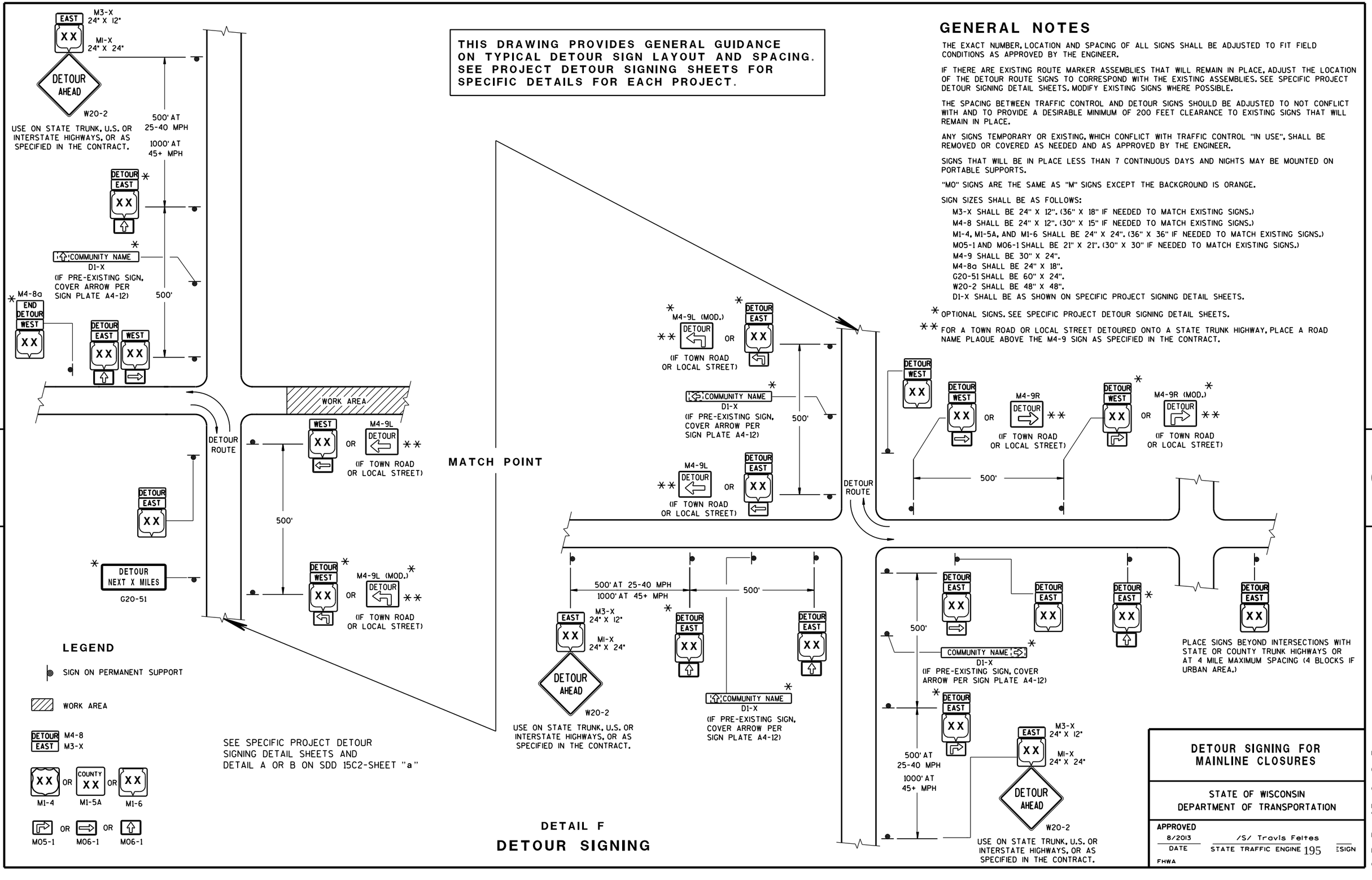
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

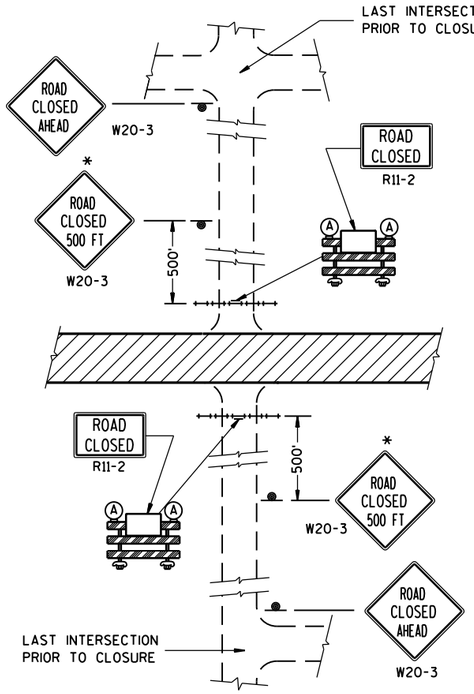
DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINE
FHWA

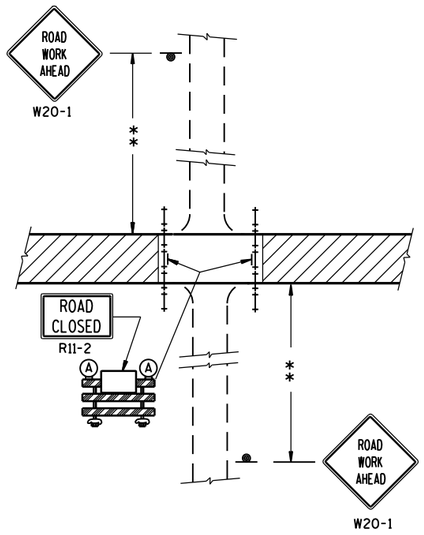
S.D.D. 15 C 2-5c

6



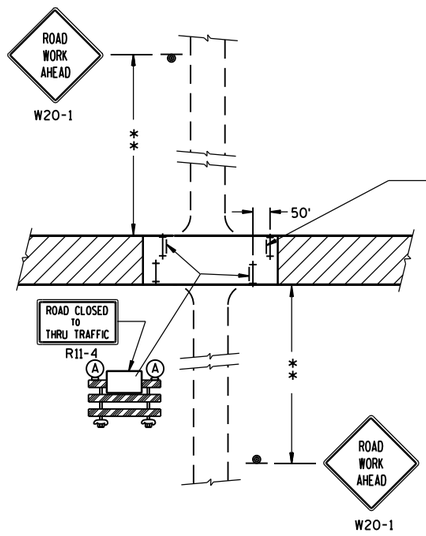
DETAIL 1

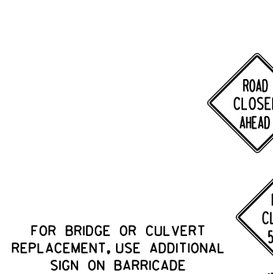
(NO ACCESS TO PROJECT)

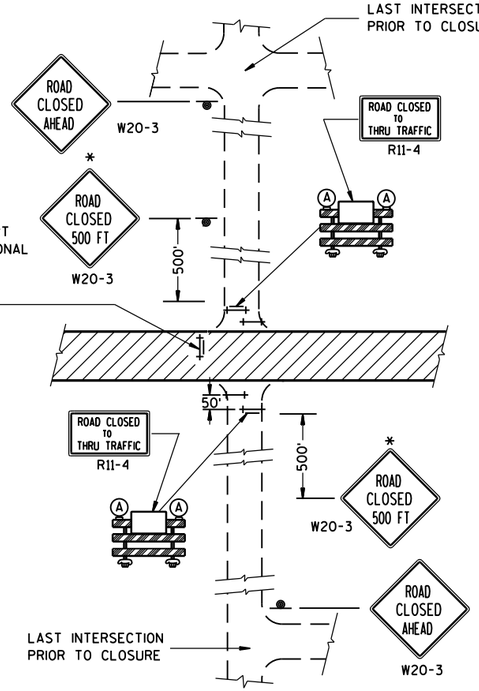


DETAIL 2

(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
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINE
FHWA

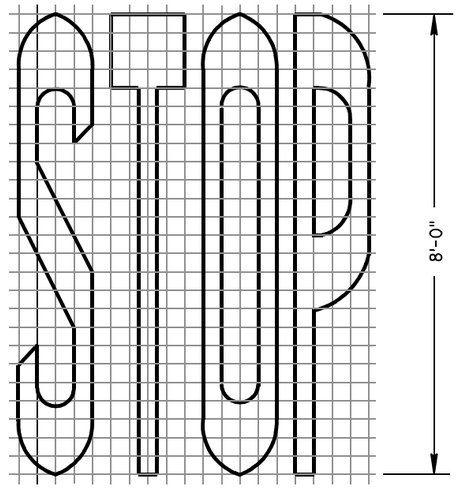
6

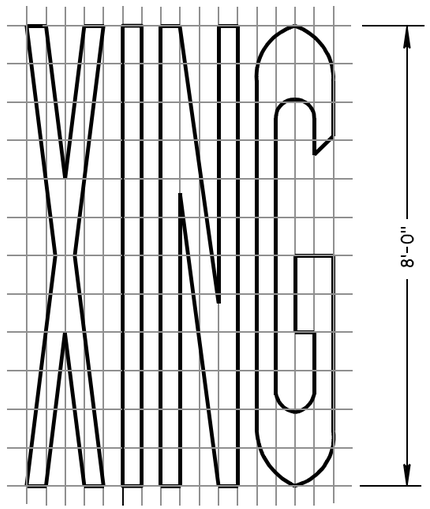
S.D.D. 15 C 3-2

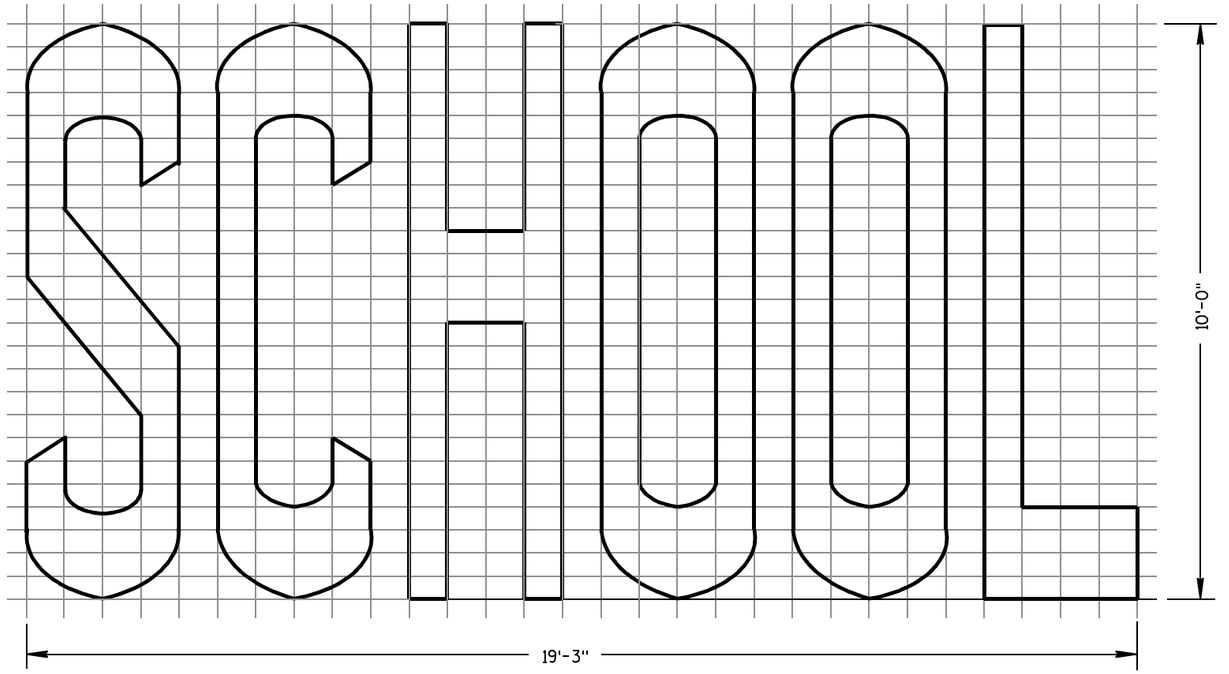
GENERAL NOTES

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.

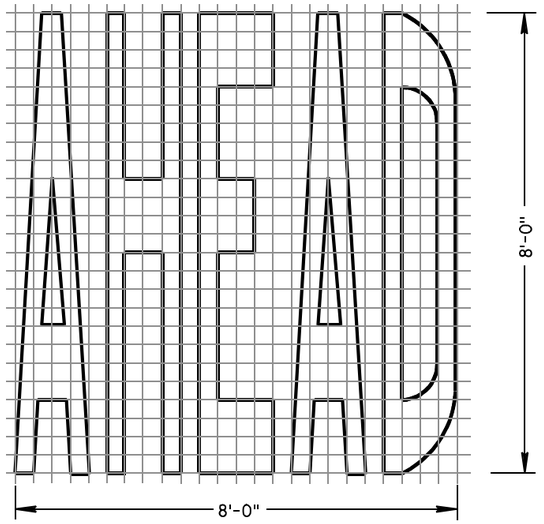
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

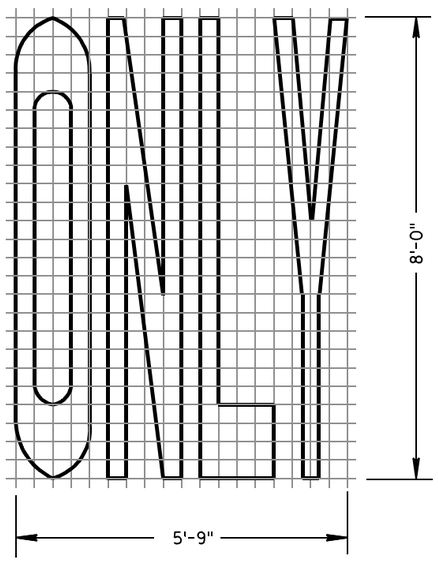


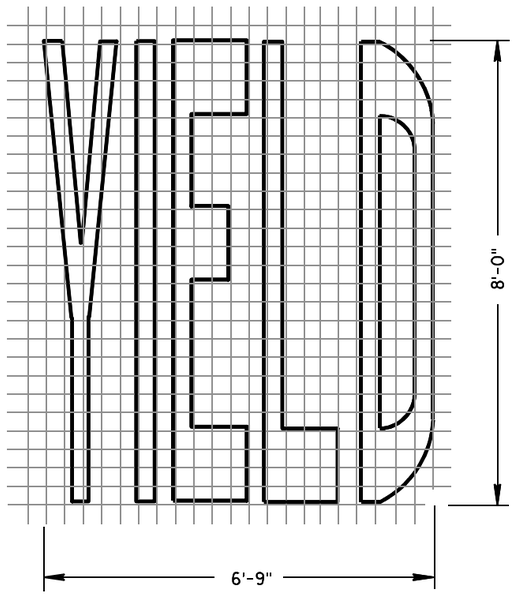


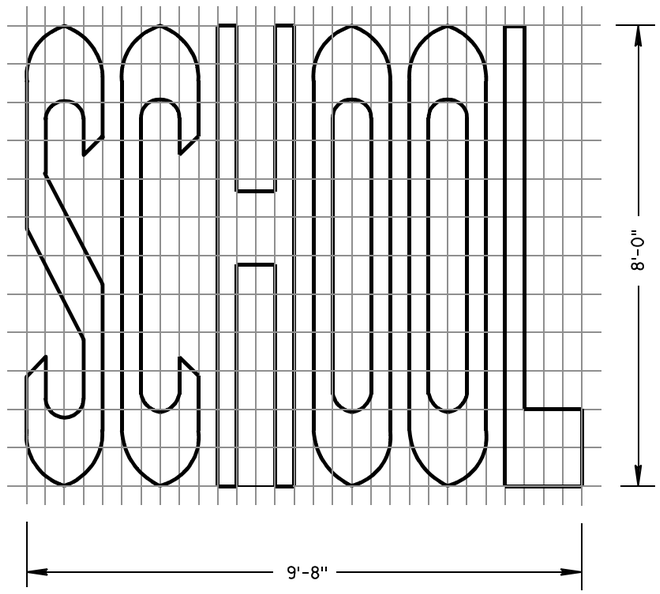


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

IGN

6

S.D.D. 15 C 7-12b

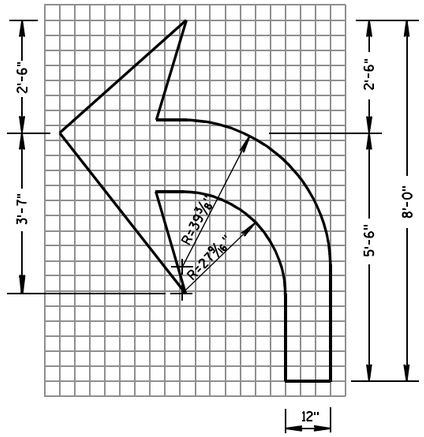
6

S.D.D. 15 C 7-12b

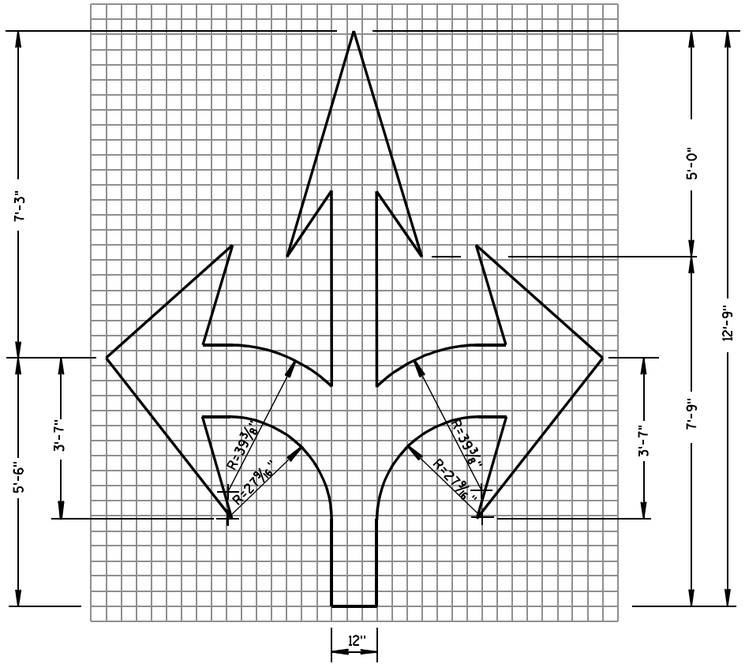
GENERAL NOTES

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.

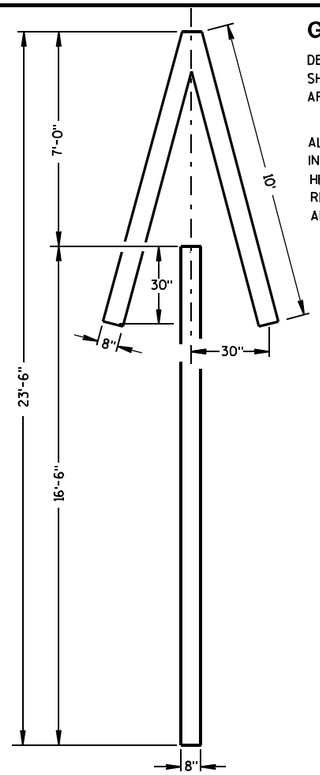
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



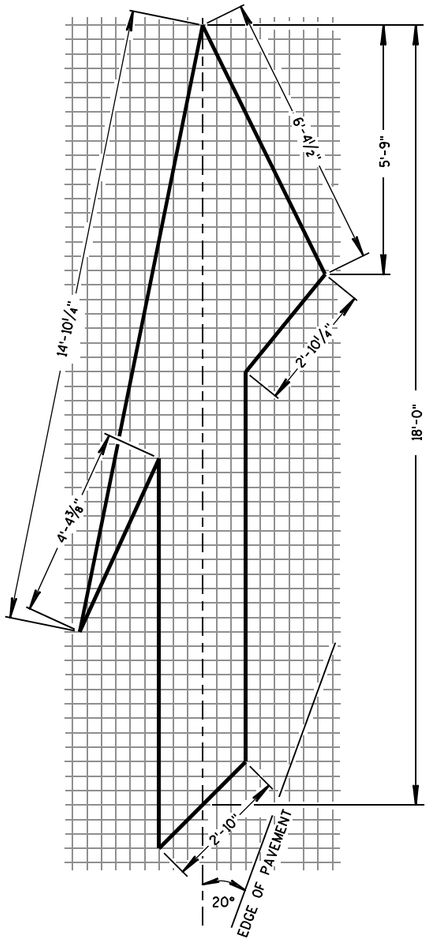
TYPE 2



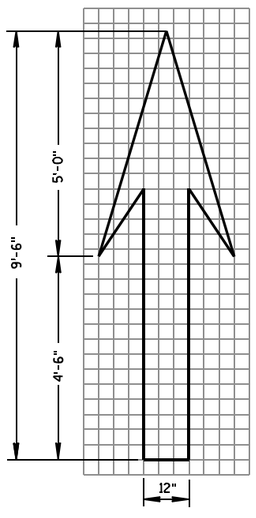
TYPE 6



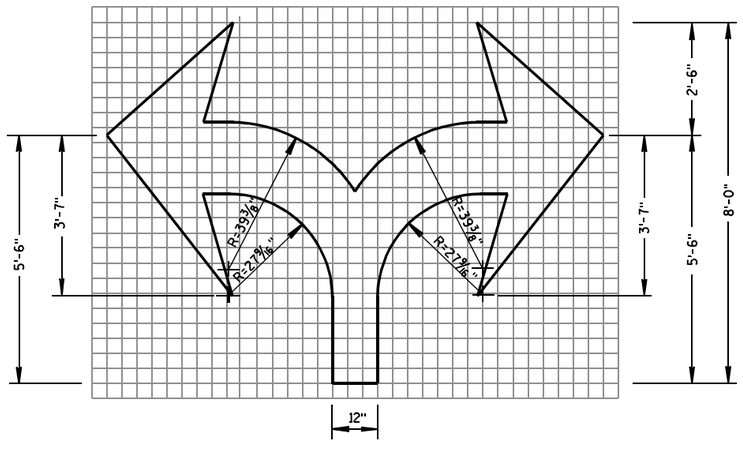
TYPE 4



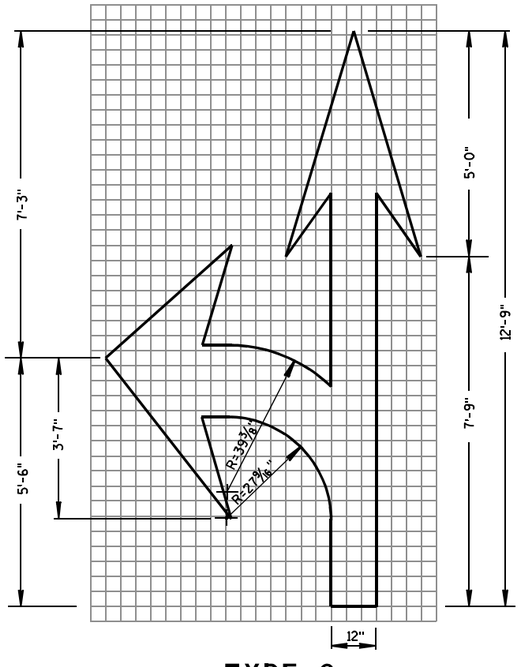
TYPE 5 LANE DROP ARROW



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

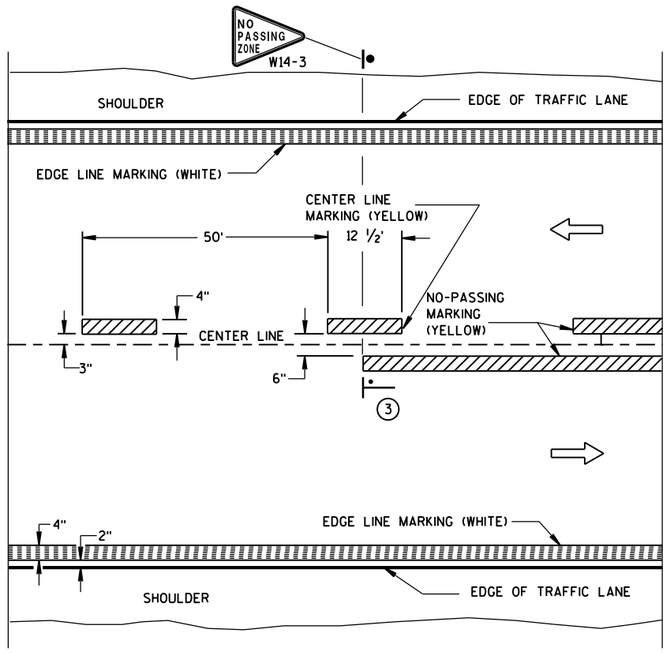
FHWA

6

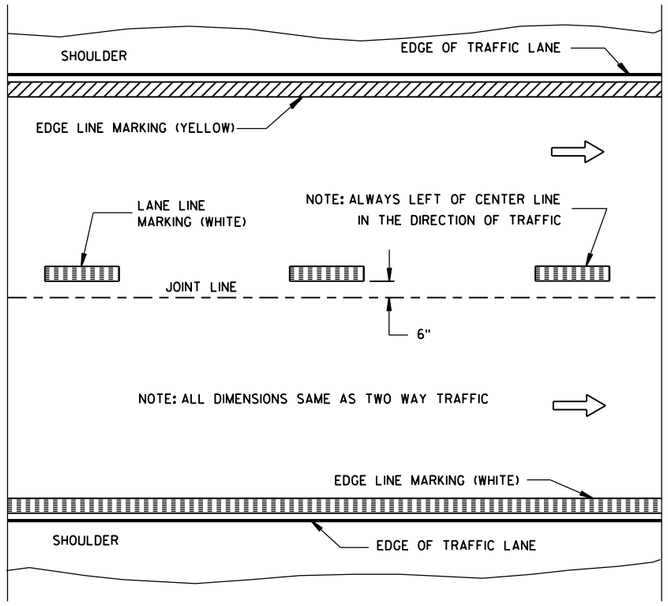
S.D.D. 15 C 7-12c

6

S.D.D. 15 C 7-12c

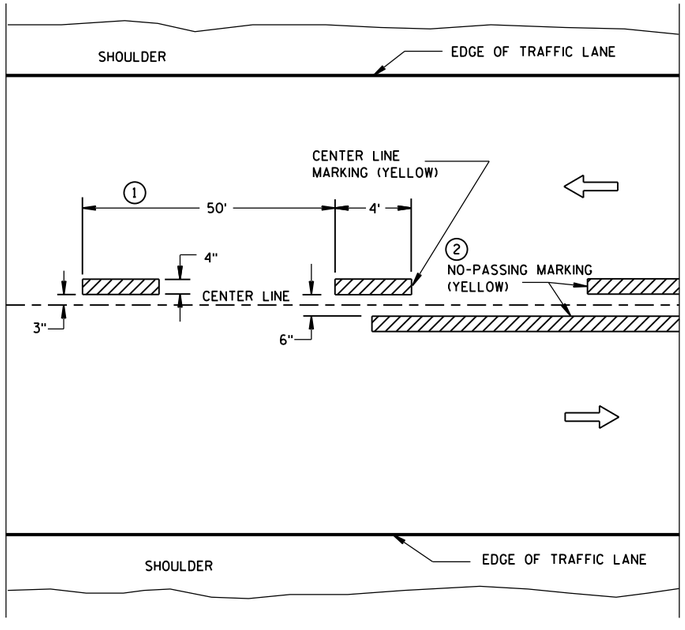


TWO WAY TRAFFIC

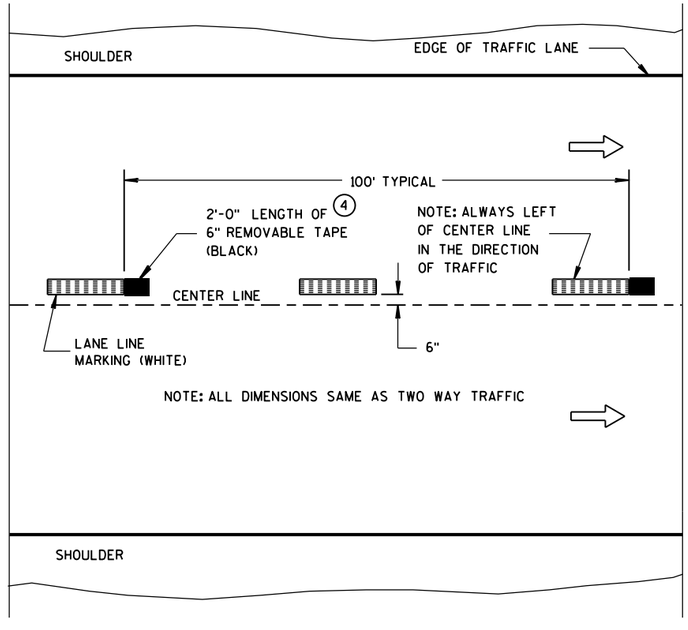


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

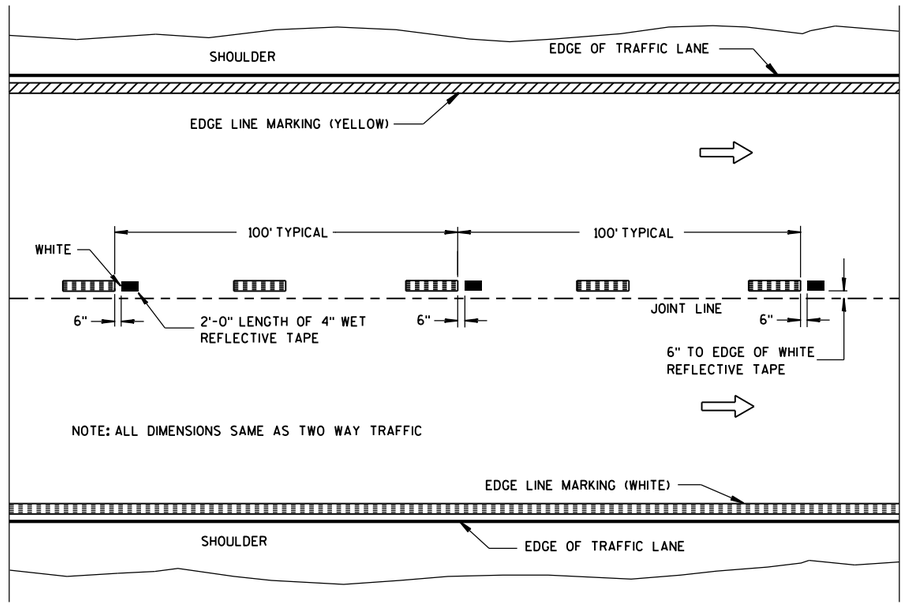
GENERAL NOTES

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

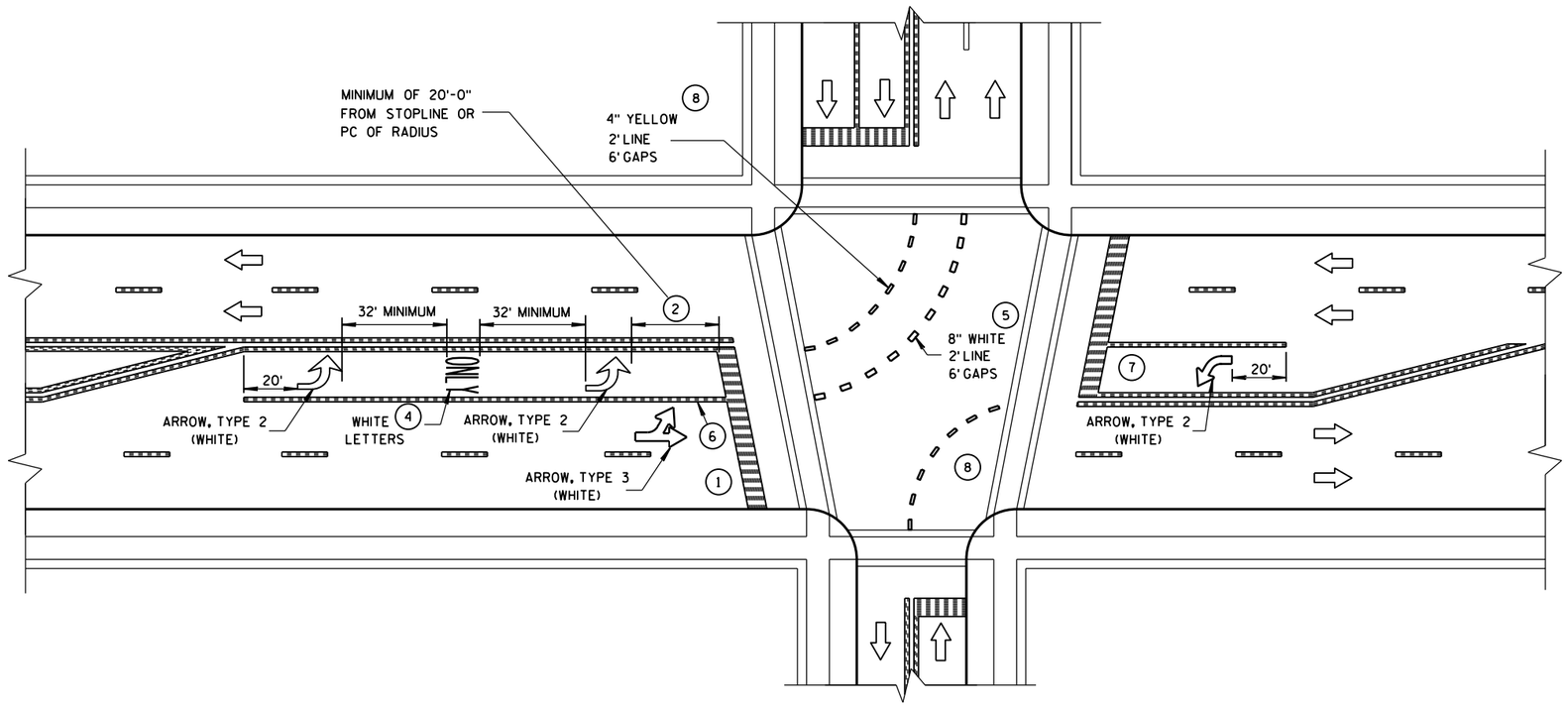
FHWA

6

S.D.D. 15 C 8-16a

6

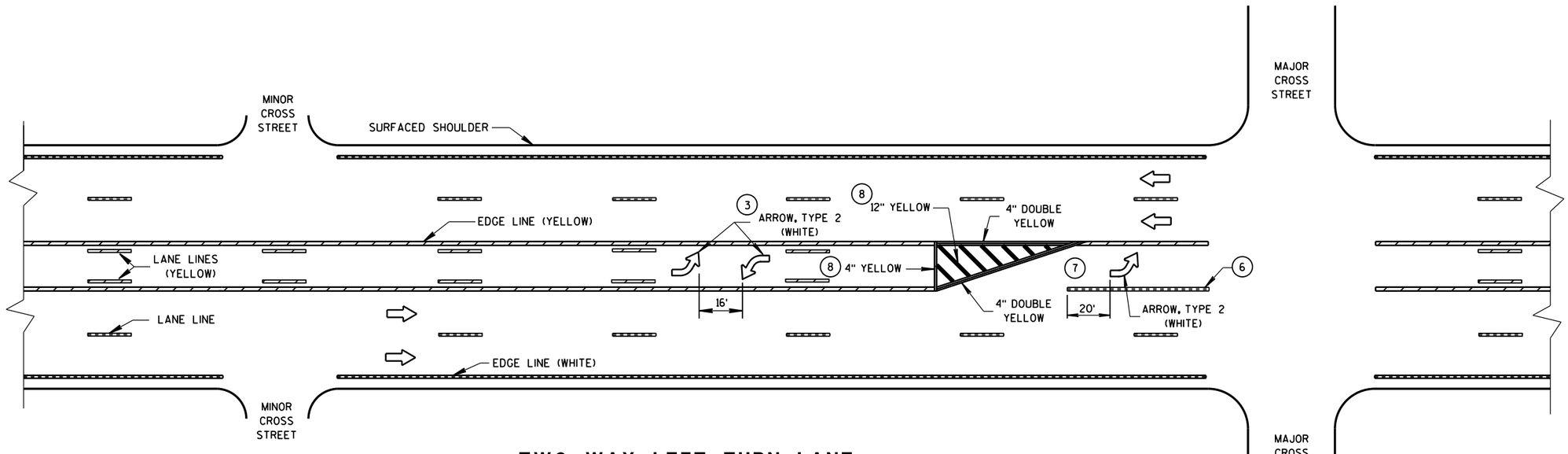
S.D.D. 15 C 8-16a



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)

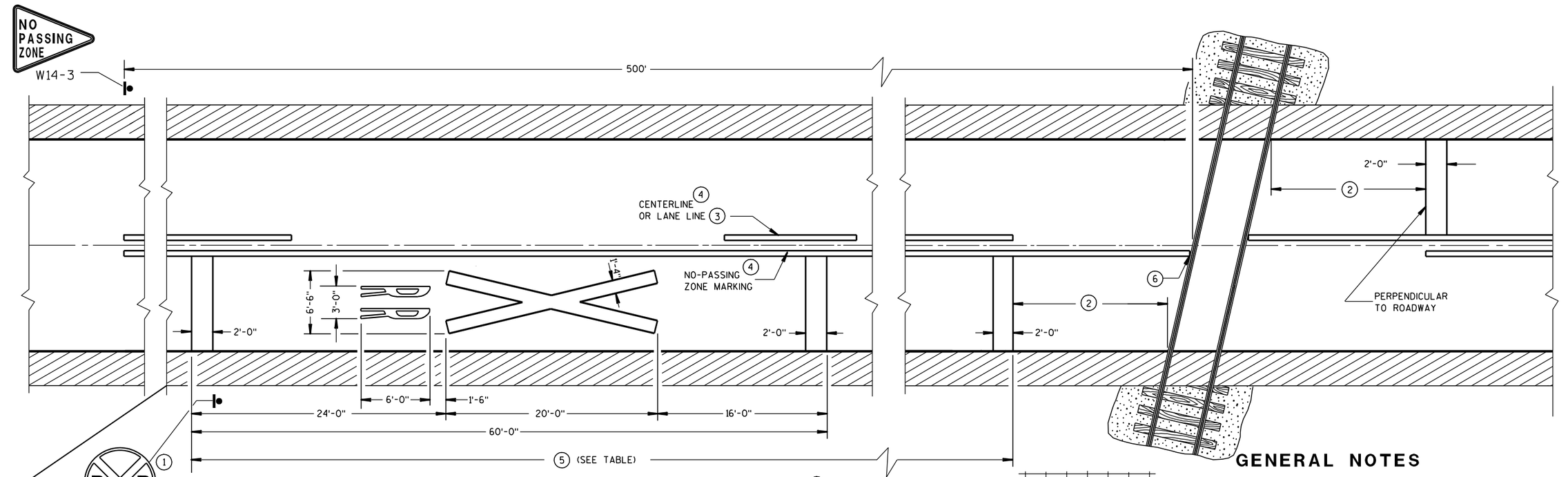
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

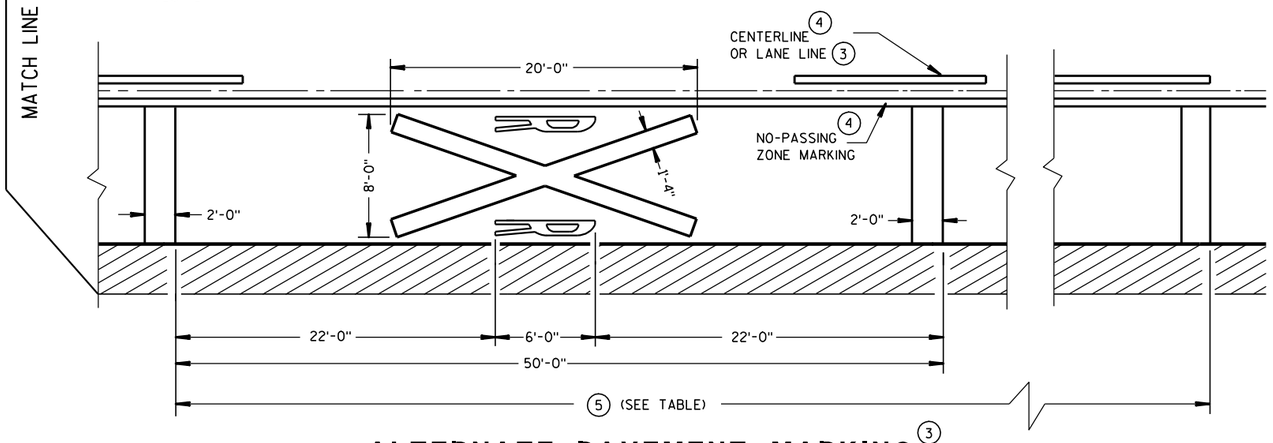
S.D.D. 15 C 8-16e

6

S.D.D. 15 C 8-16e



PREFERRED PAVEMENT MARKING 3

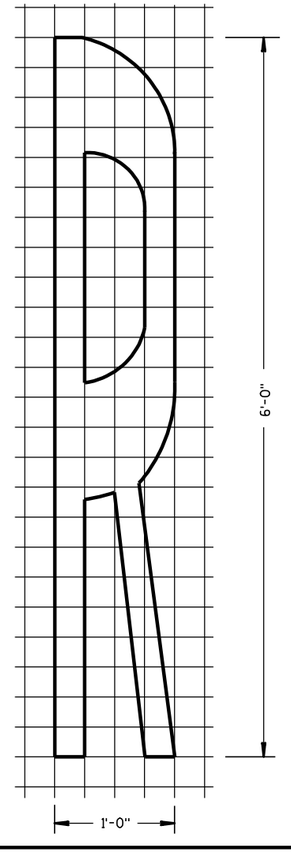


ALTERNATE PAVEMENT MARKING 3

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

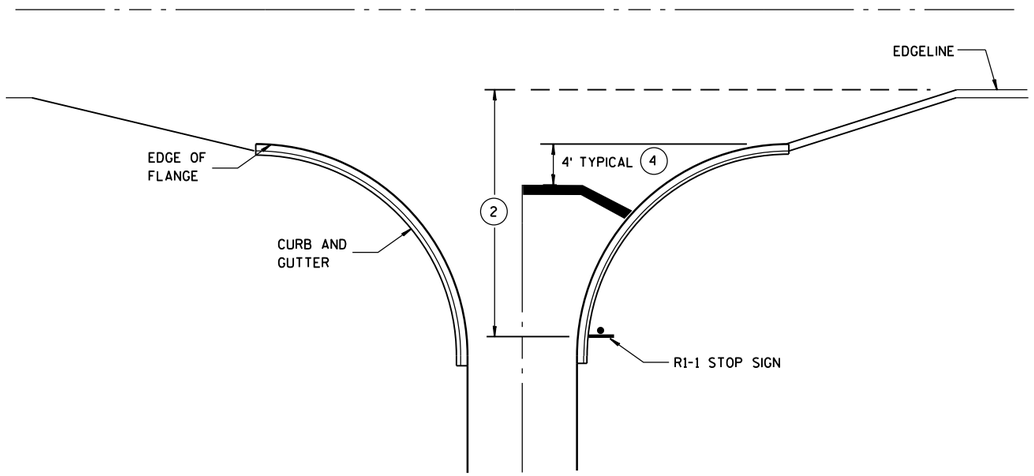
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

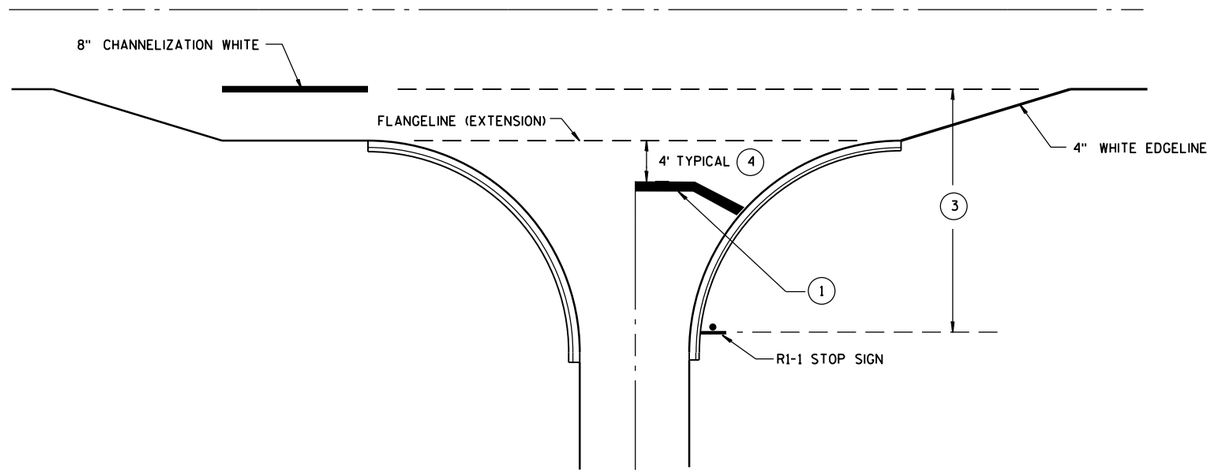
1-9-2012
DATE

/S/ Thomas N. [illegible]
STATE TRAFFIC ENGINEER

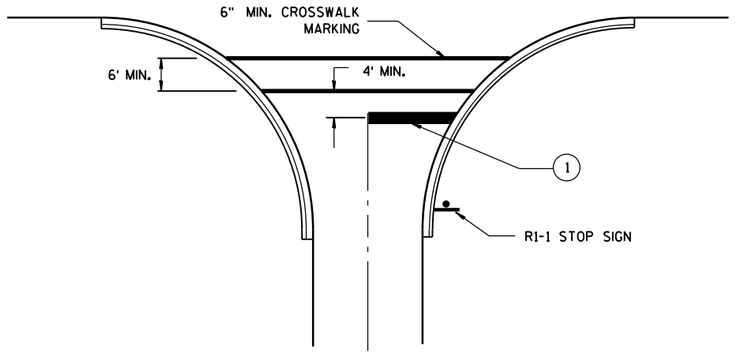
FHWA



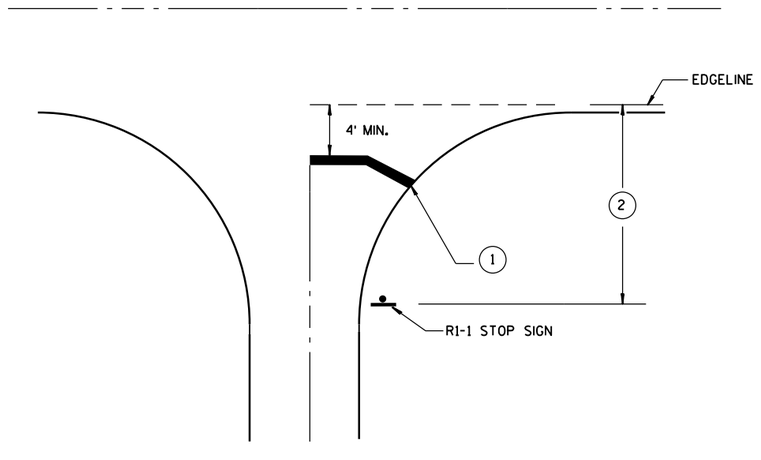
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

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.

W20-1 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.

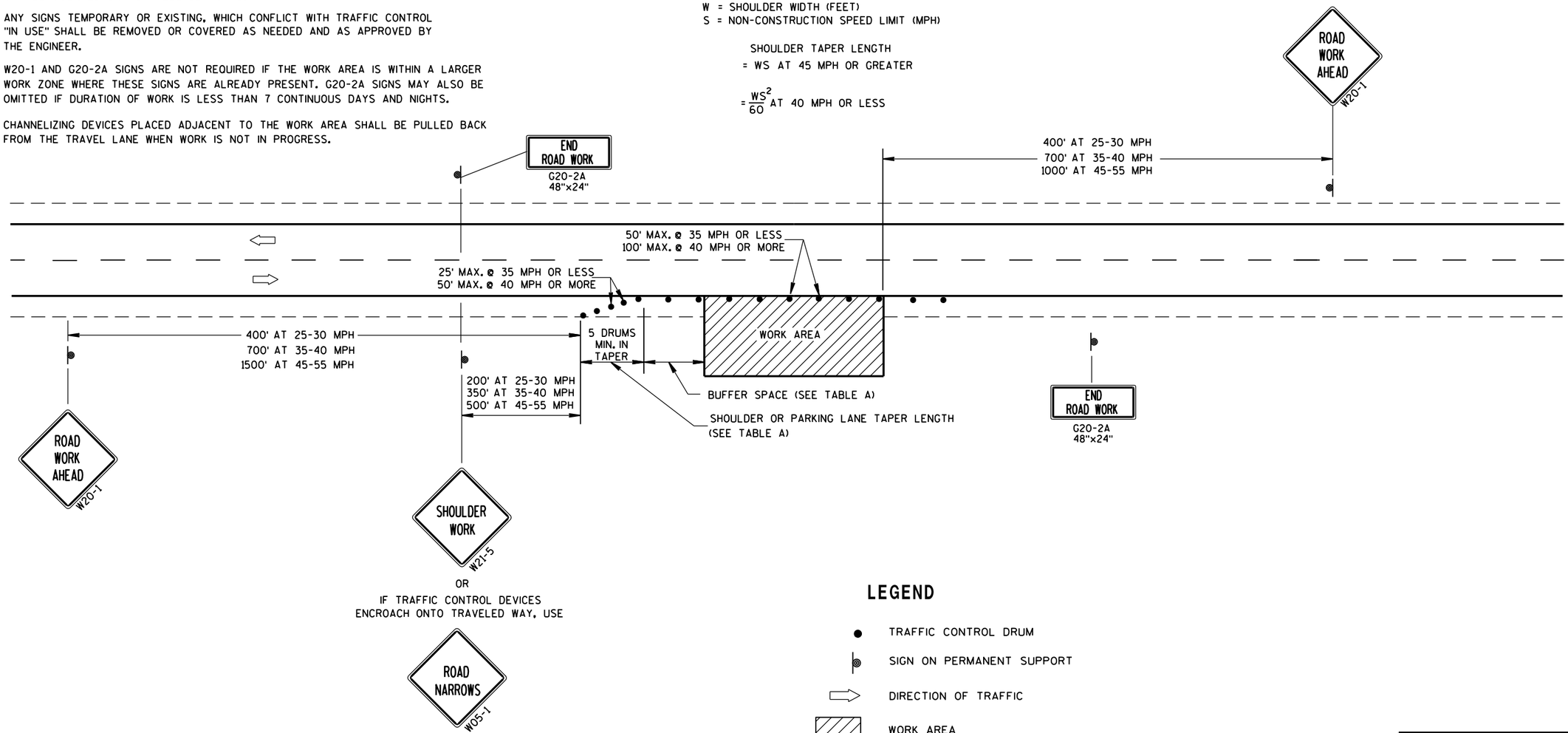
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



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

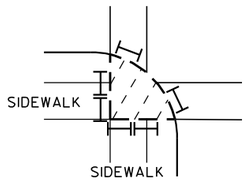
8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER

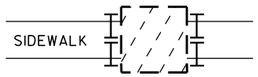
FHWA

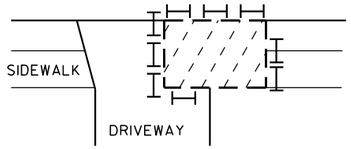
6

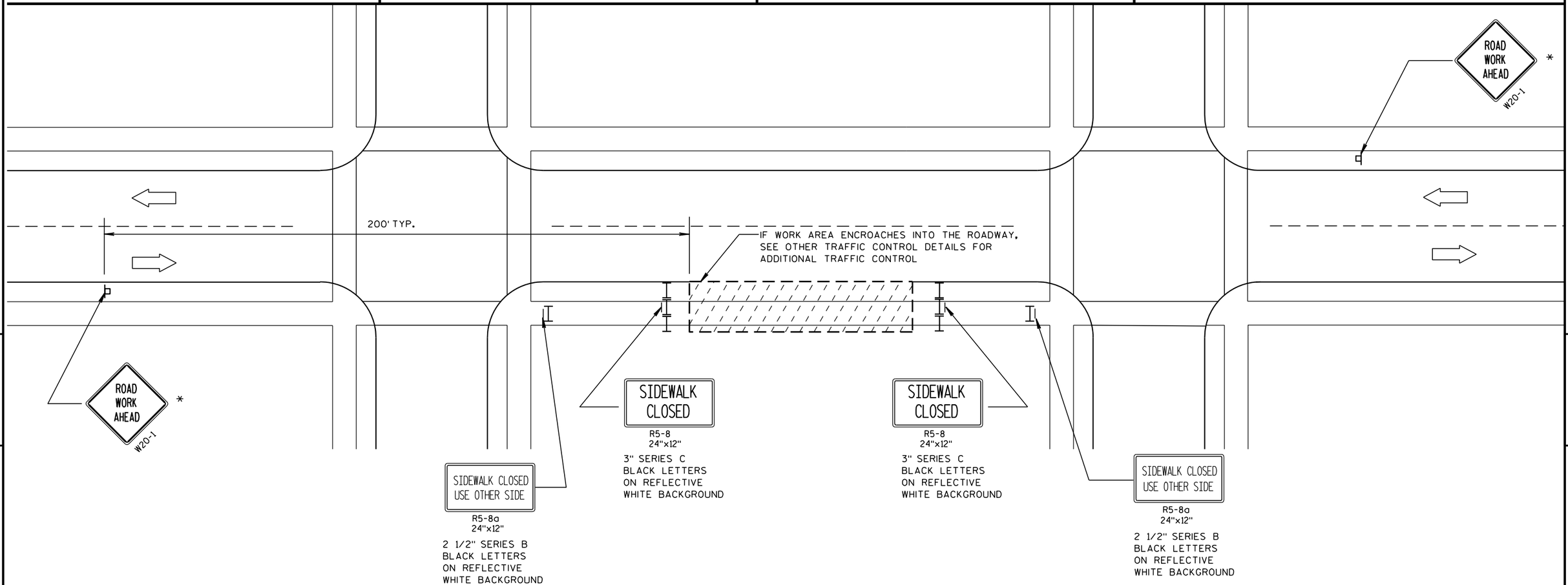
S.D.D. 15 D 28-2

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "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.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

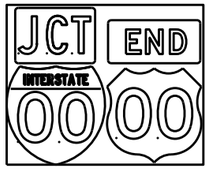
APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

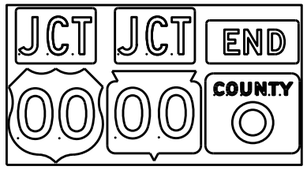
S.D.D. 15 D 30-1

TYPICAL ASSEMBLIES

J1-1

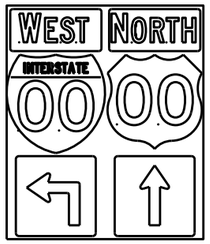


J1-2

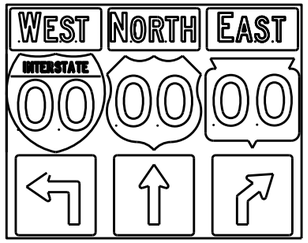


J1-3

J2-1



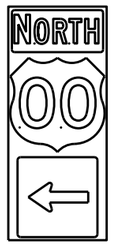
J2-2



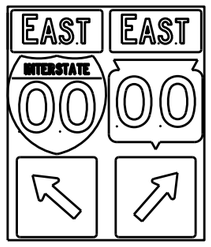
J2-3

JV

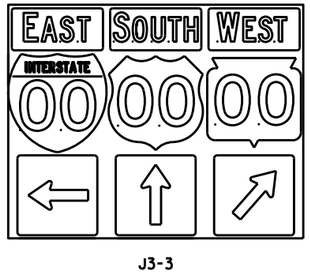
(Typical Vertical J-Assembly
See Note 10 and 11)



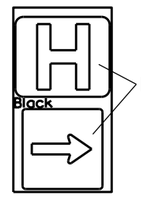
J3-1



J3-2



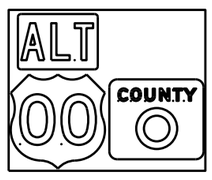
J3-3



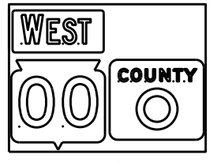
Blue Background

JH-1

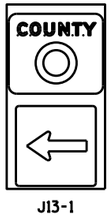
J4-1



J4-2



J4-2



J13-1

J12-1

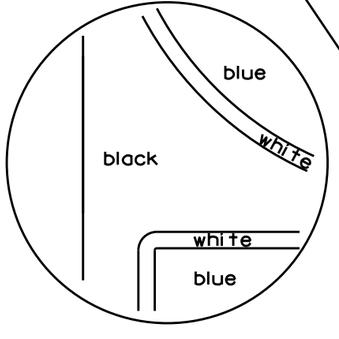
J32-1

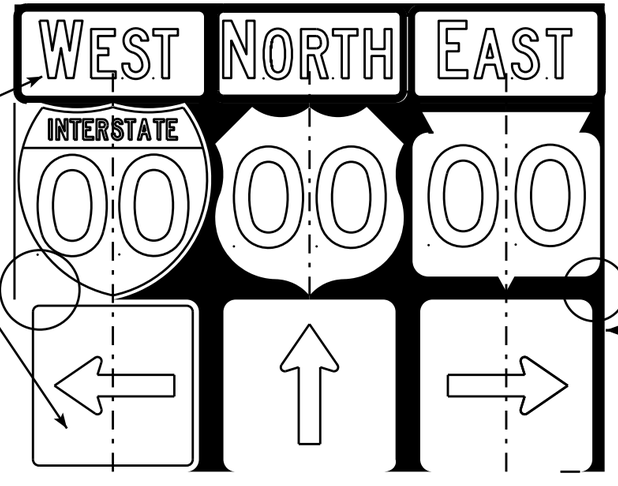
J33-1

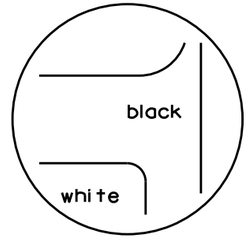
J23-1

J22-1

[blue background with interstate]







[black background]

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

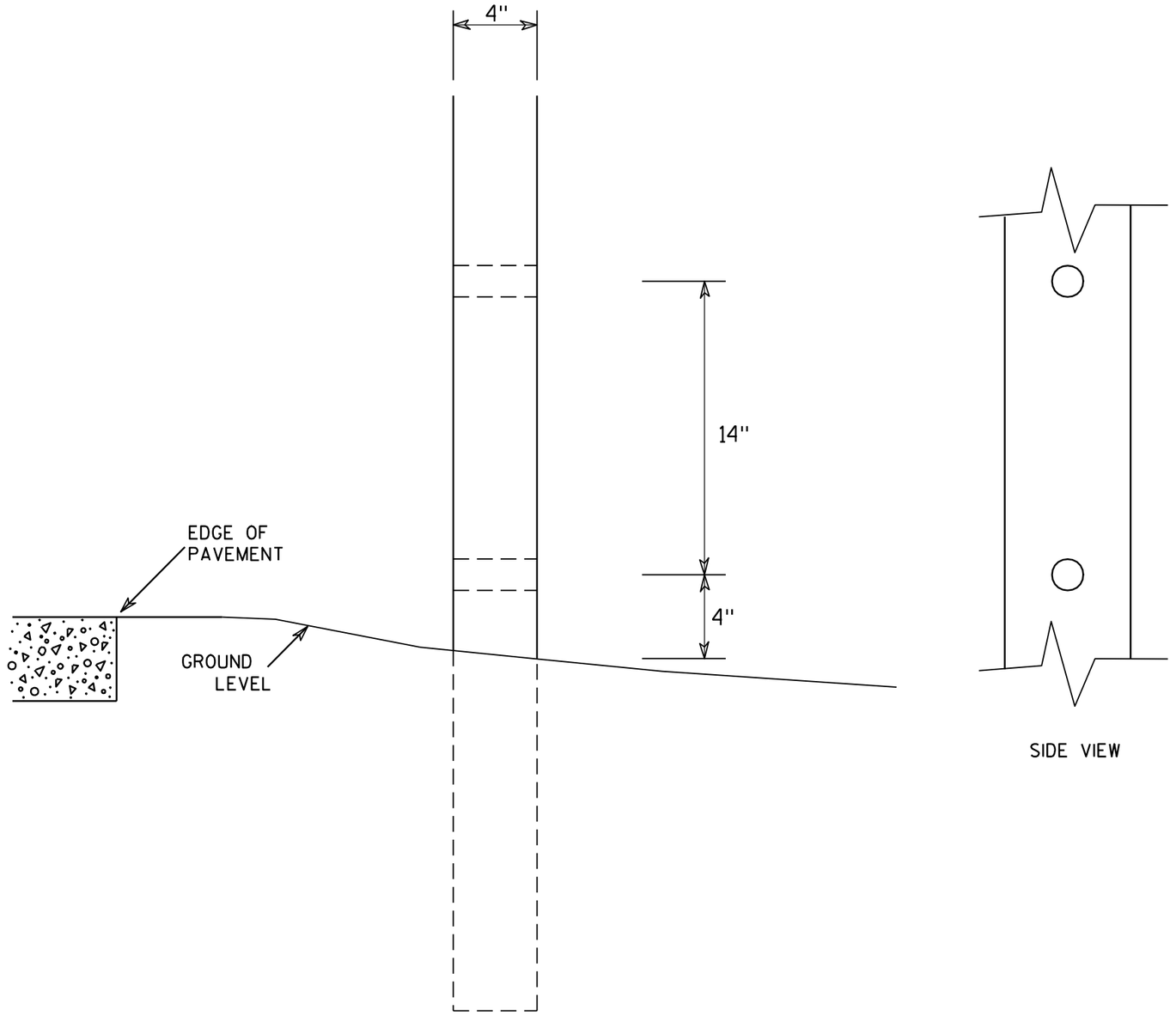
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

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

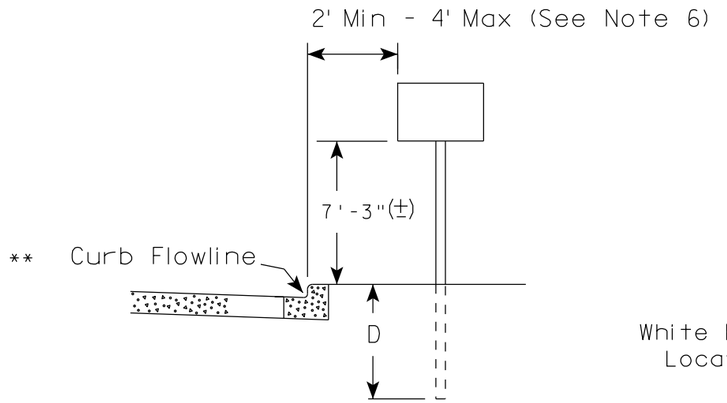
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

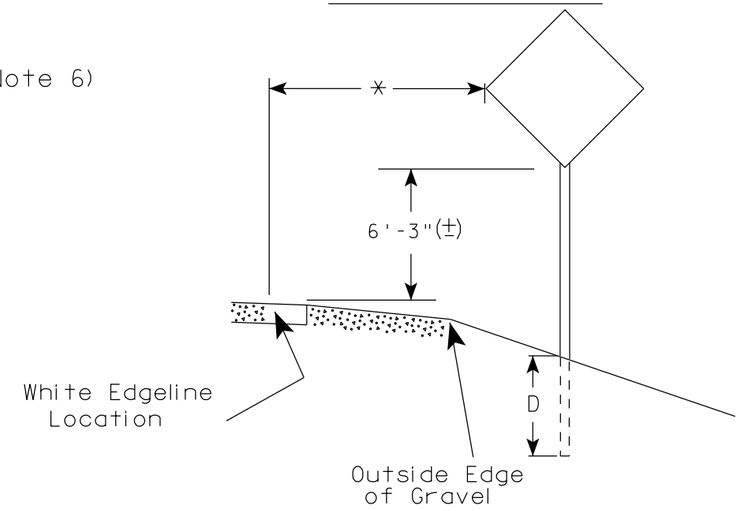
DATE 3/27/97 PLATE NO. A4-11.2

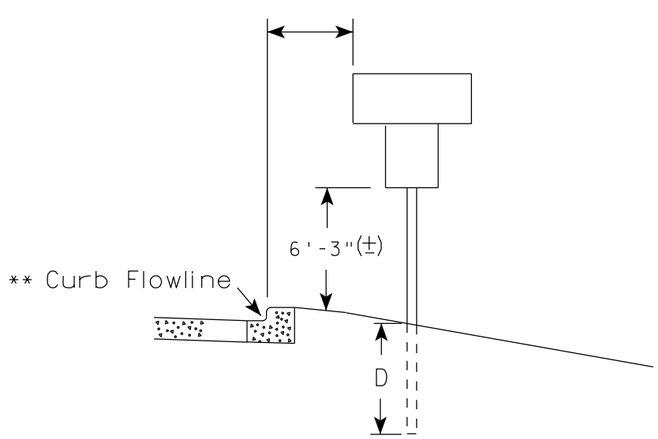
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 206	E

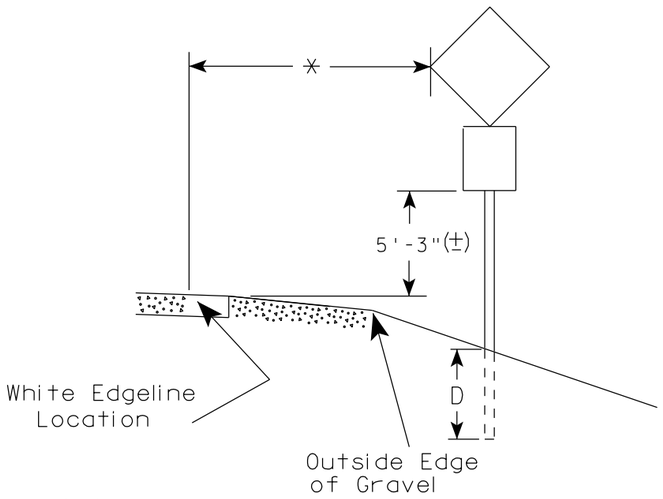
URBAN AREA



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, 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

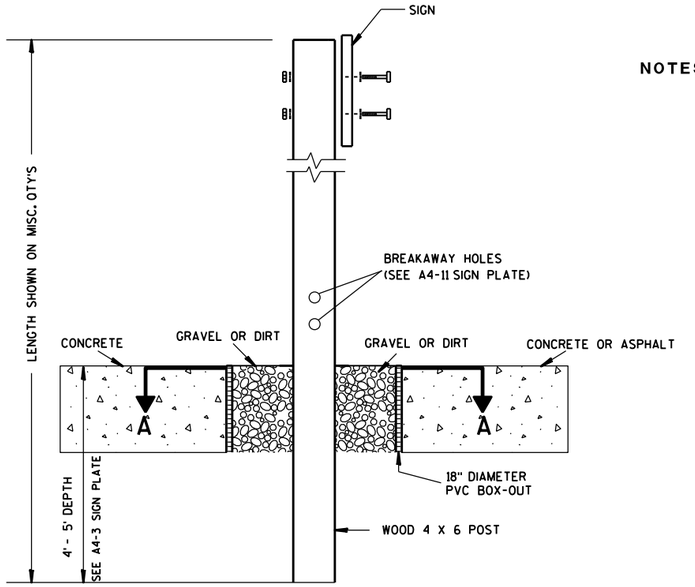
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-3.19

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

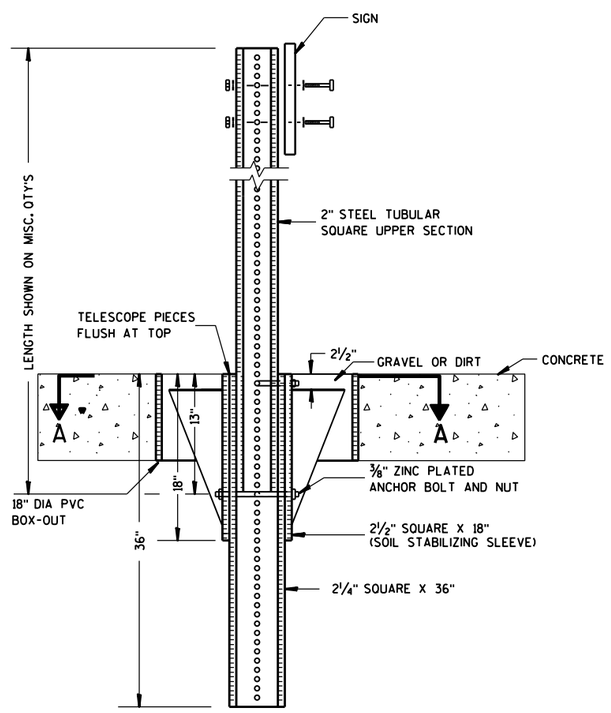
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 12-NOV-2014 14:03 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 99.237937:1.000000 WISDOT/CADDS SHEET 42



ELEVATION VIEW

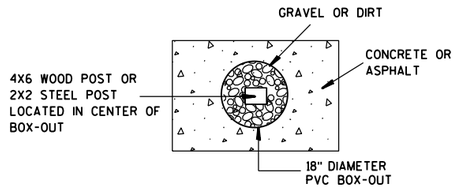
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

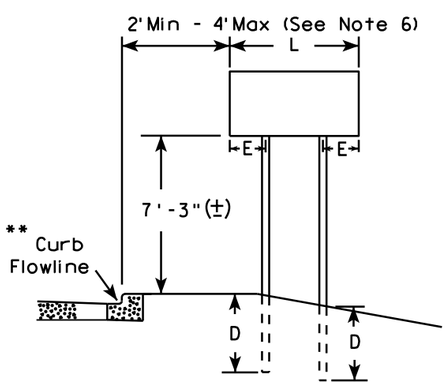
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

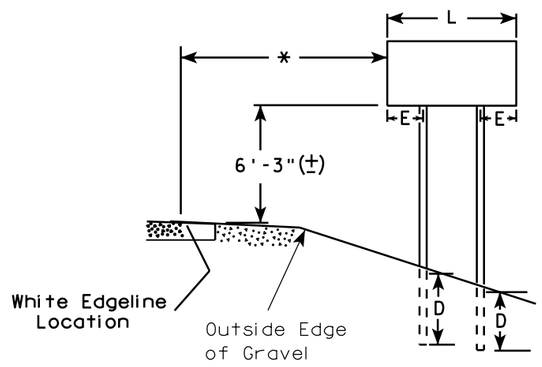
DATE 1/27/14 PLATE NO. A4-3B.1

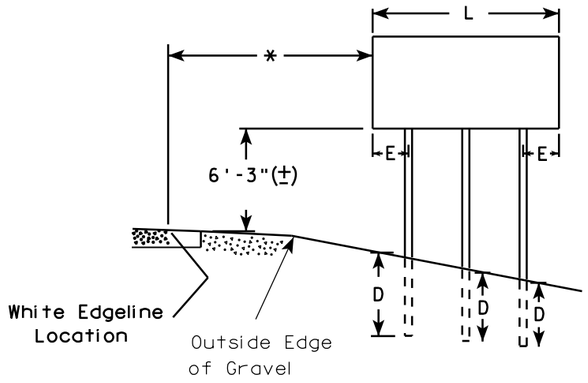
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

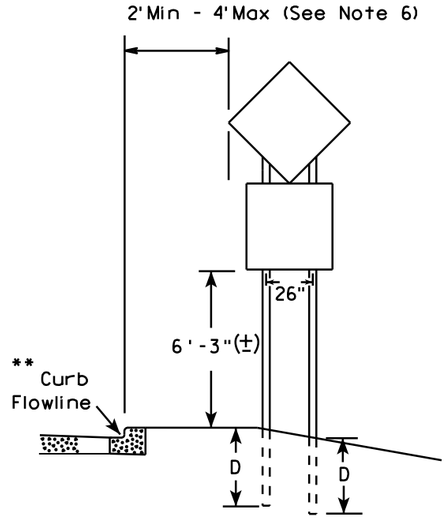
URBAN AREA



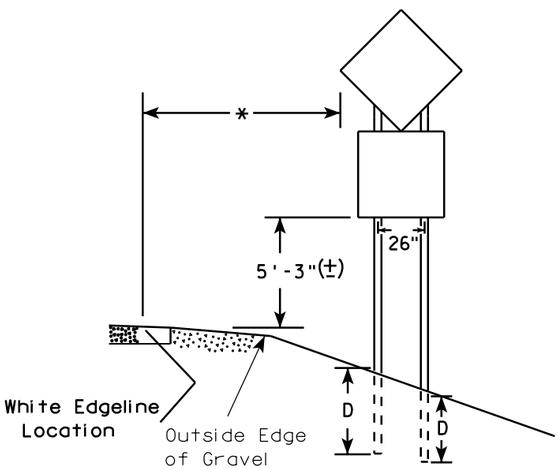
RURAL AREA (See Note 3)







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 or 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

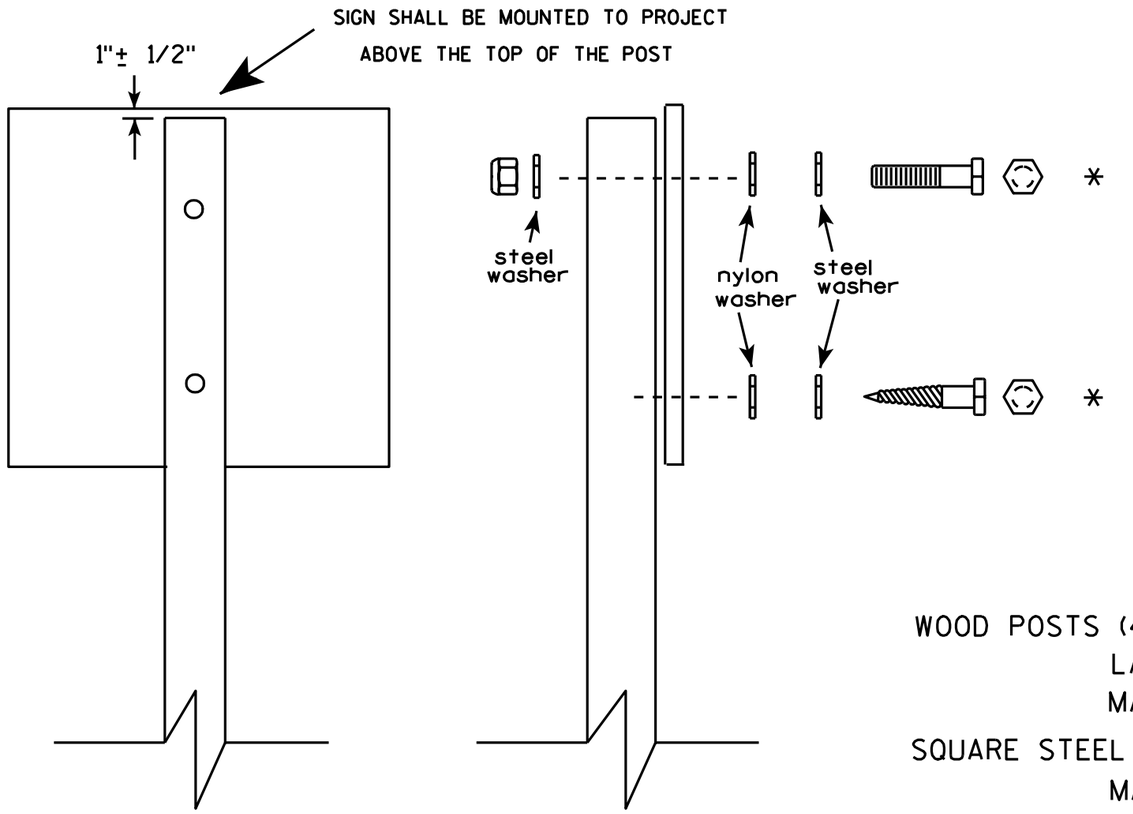
DATE 11/12/14 PLATE NO. A4-4 13

209

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 12-NOV-2014 14:01 PLOT BY : mscsja 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

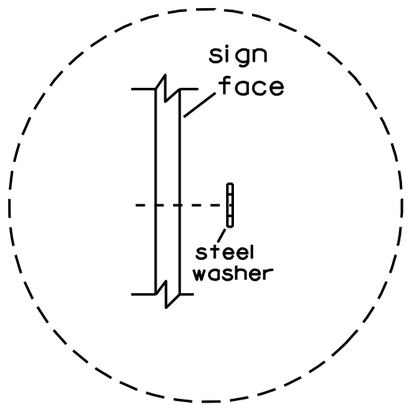
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.

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.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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 3/23/10 PLATE NO. A4-8.7

7

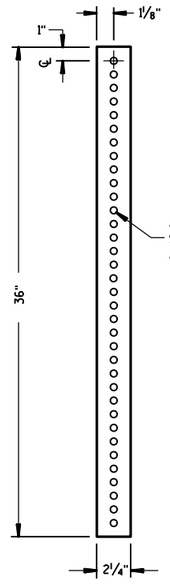
7

PROJECT NO:

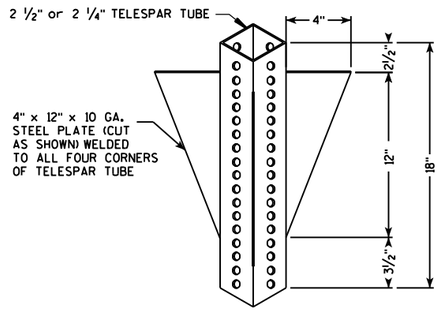
SHEET NO: 210 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

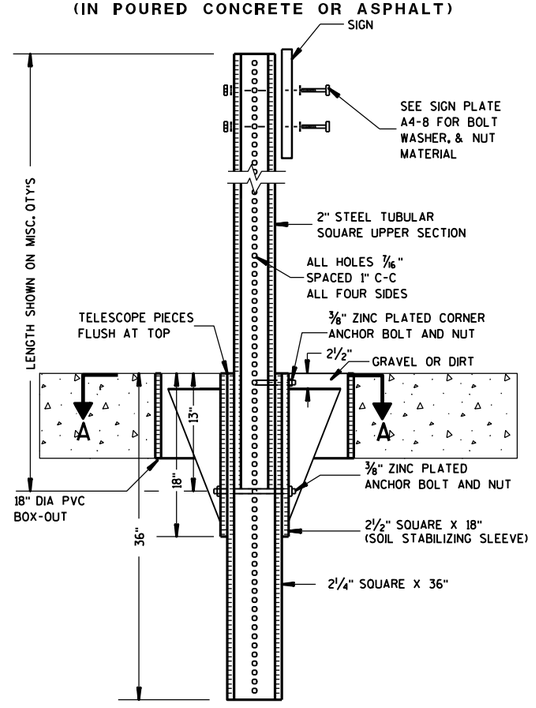
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



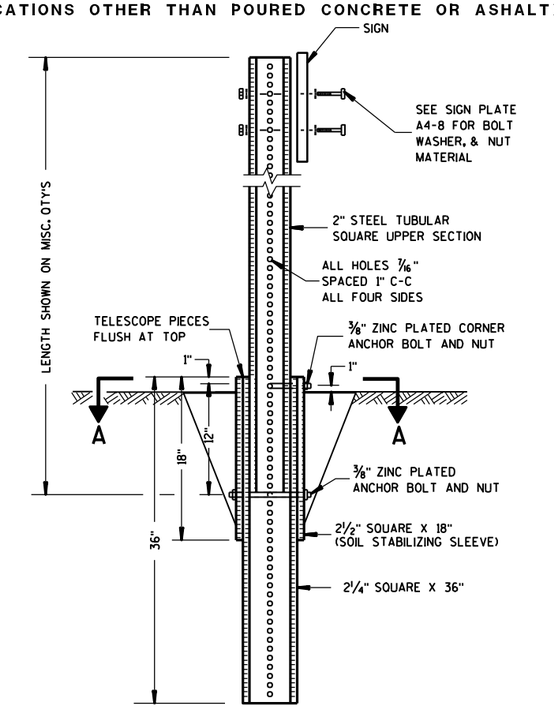
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

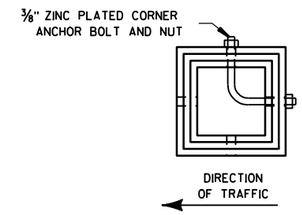


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASHALT)





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).

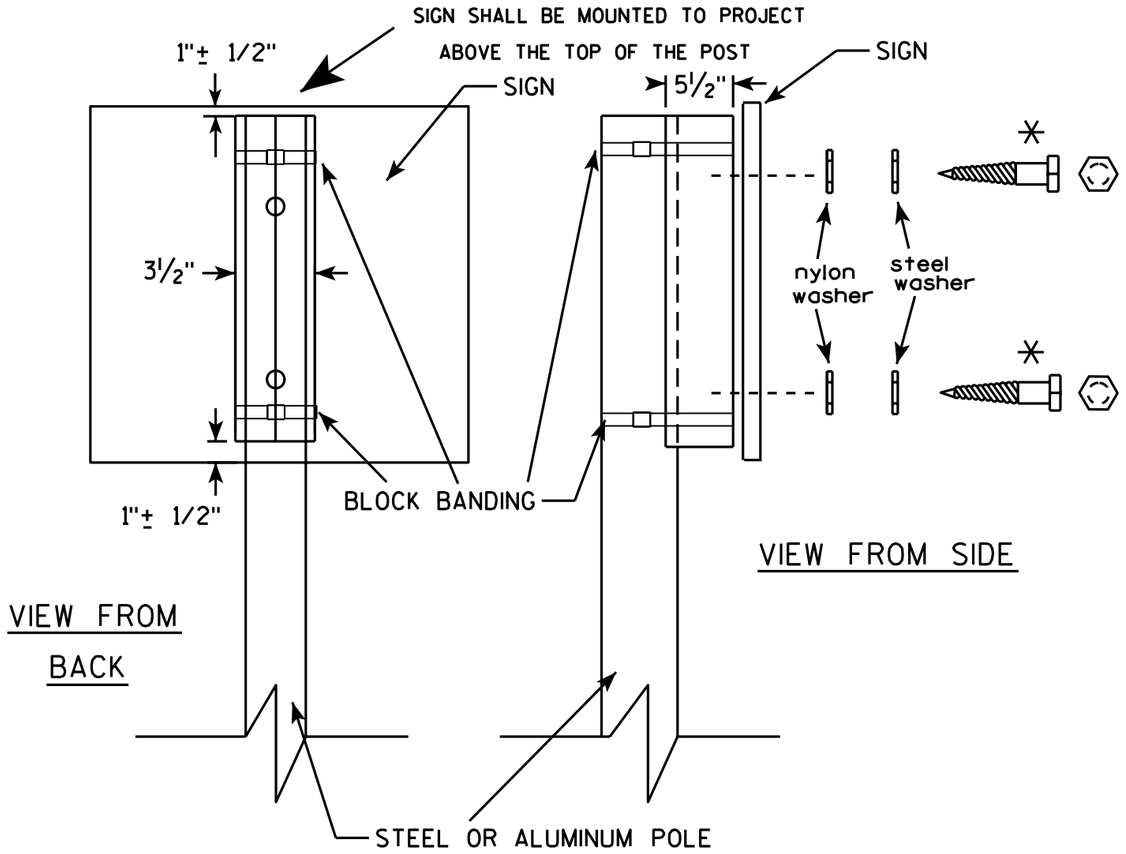
TUBULAR STEEL SIGN POST A4-9

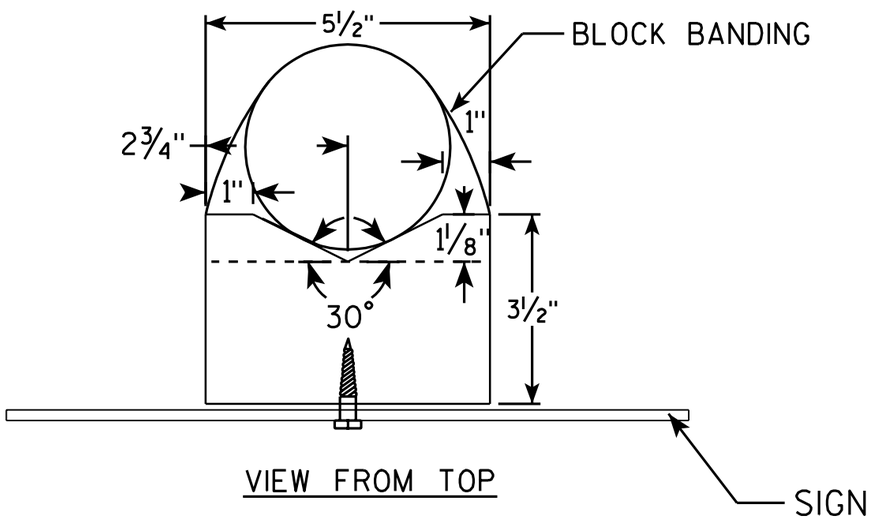
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 211	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

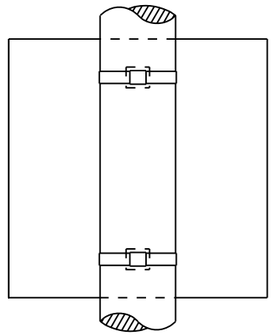
DATE 7/12/07 PLATE NO. A5-10.1

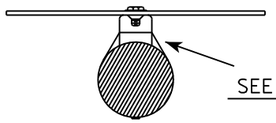
PROJECT NO:

SHEET NO: 212 E

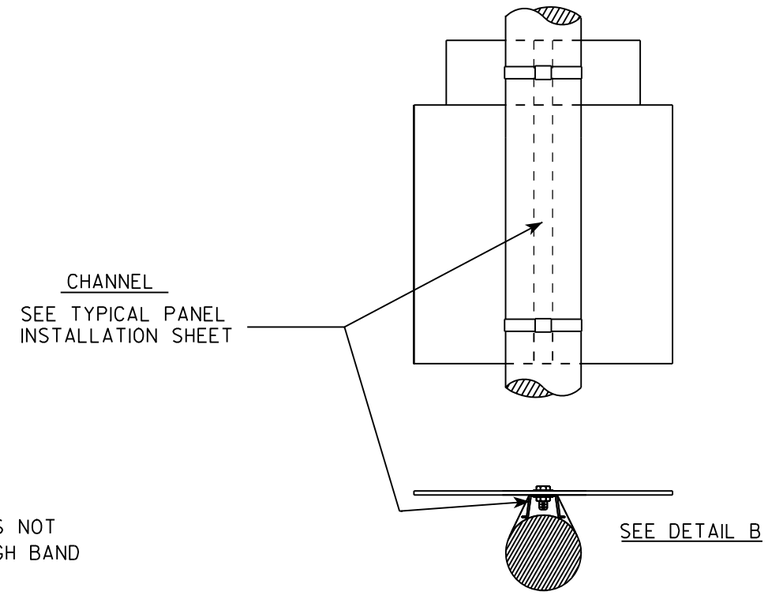
BANDING

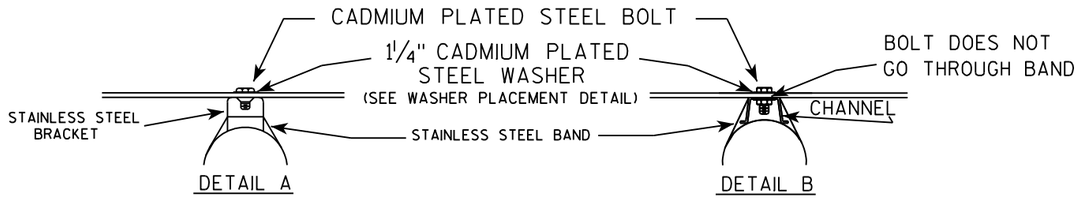
SINGLE SIGN



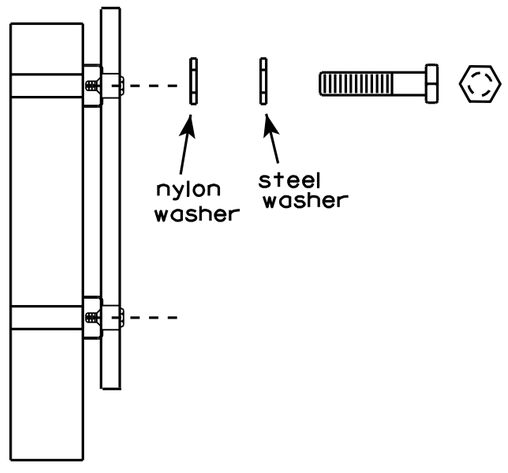


"J" ASSEMBLY





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 3/4" in width and 0.025" thickness.

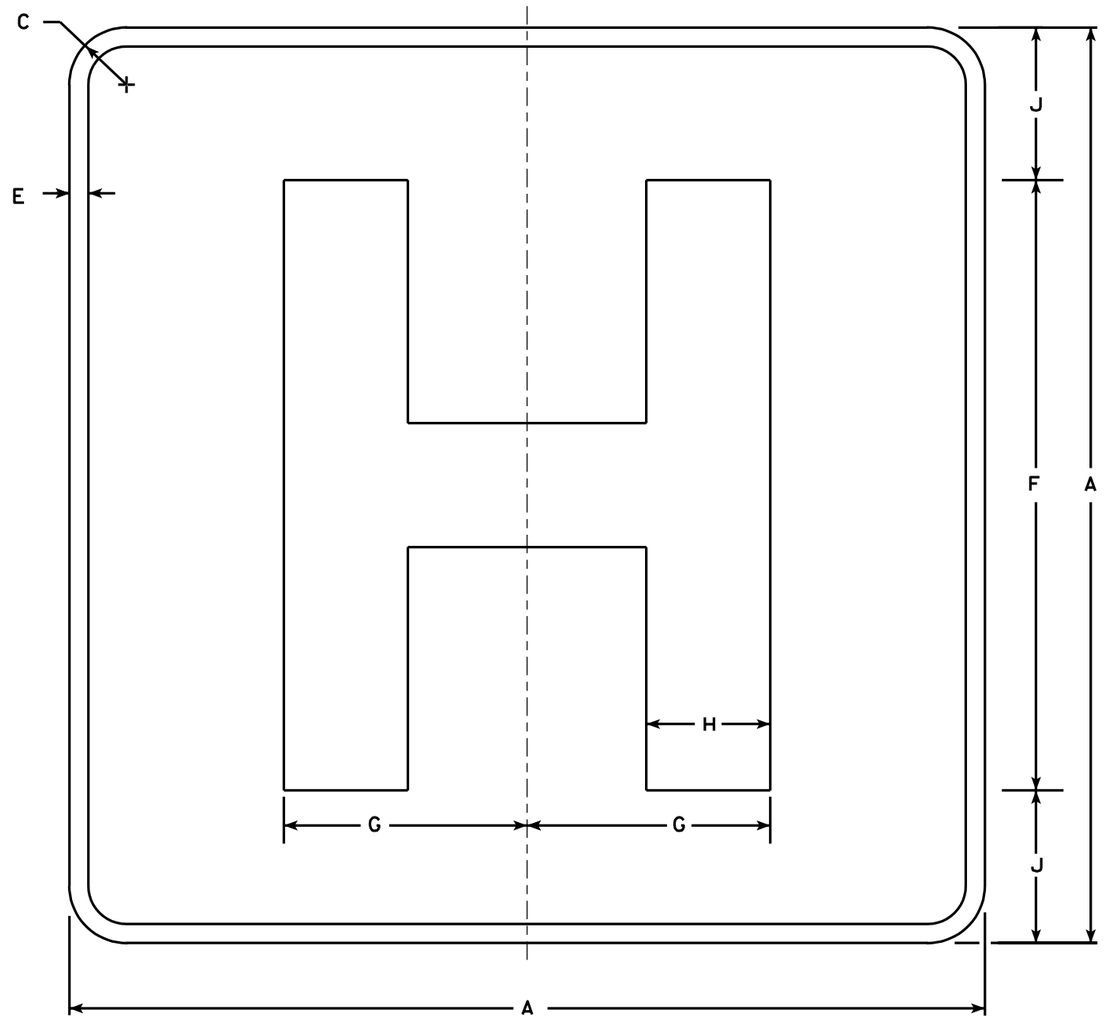
STANDARD SIGN
SIGN BANDING DETAILS

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: 213	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

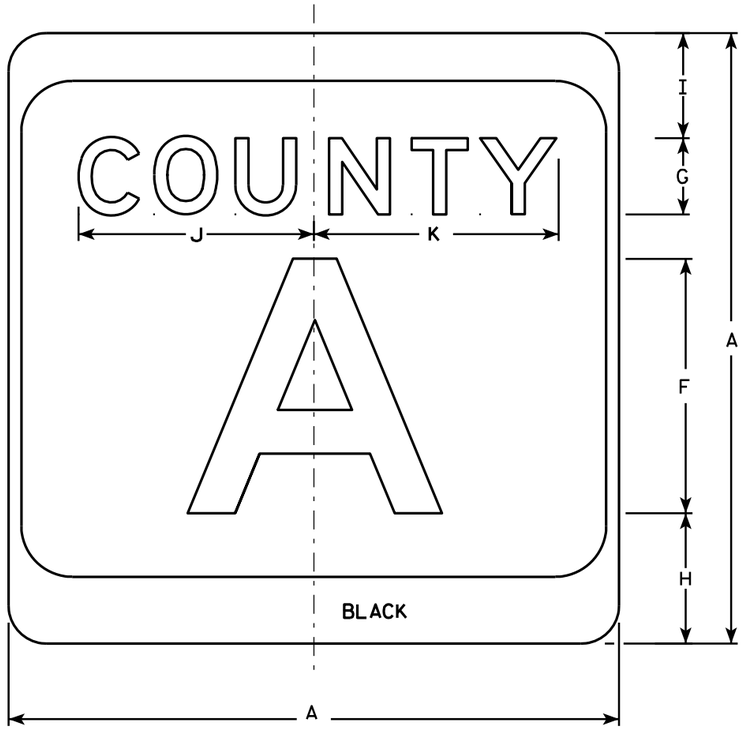
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

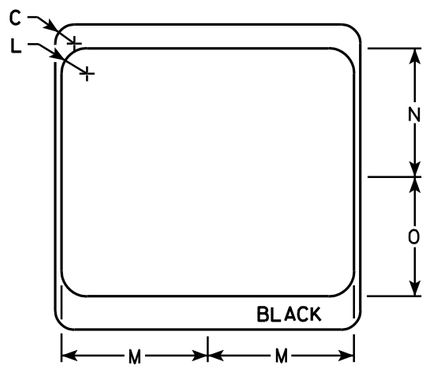
DATE 1/15/02 PLATE NO. D9-2.4

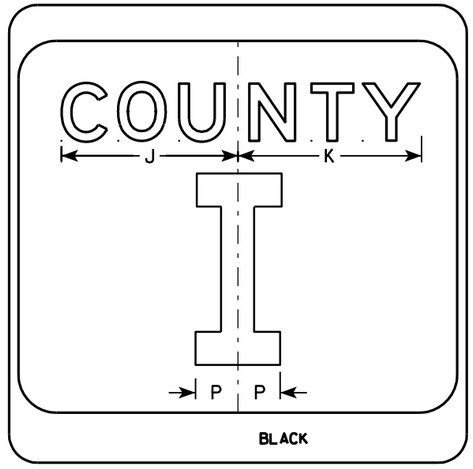
PROJECT NO:

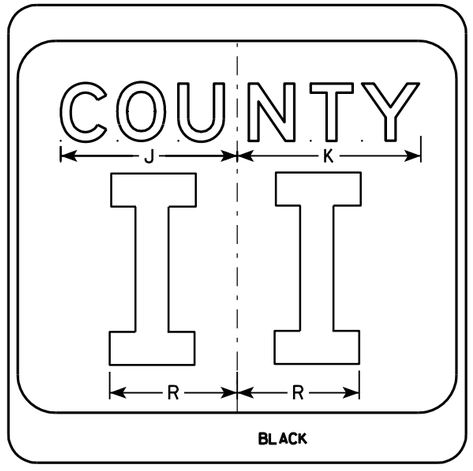
SHEET NO: 214 E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or 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		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

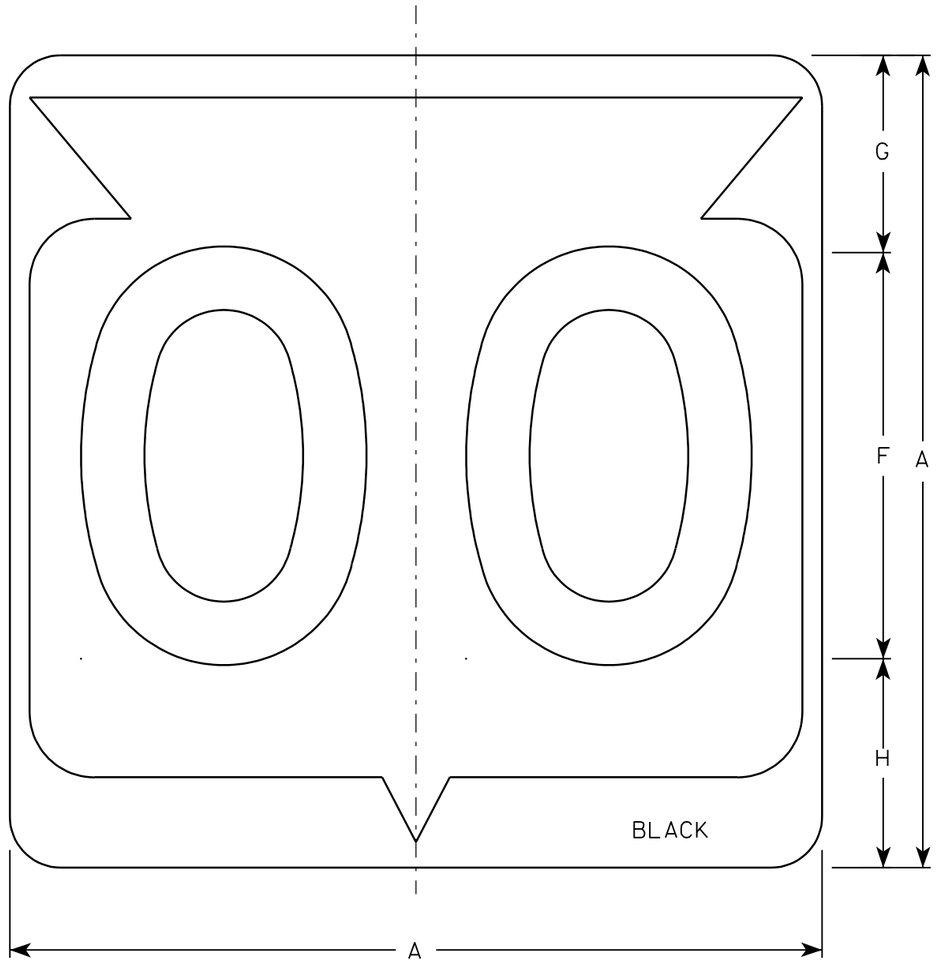
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

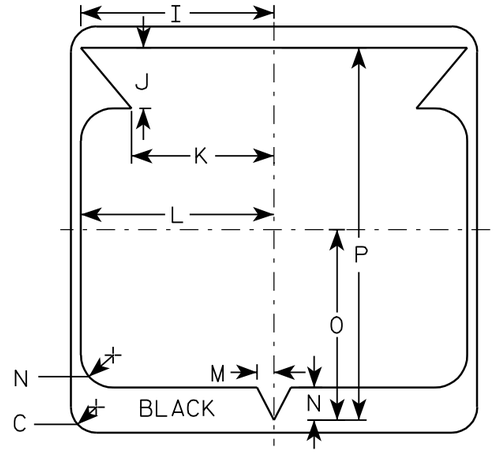
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E



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

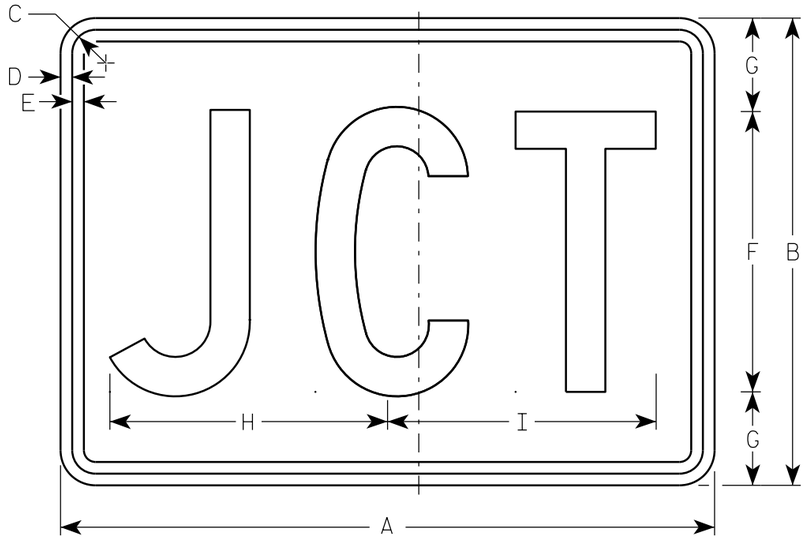
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

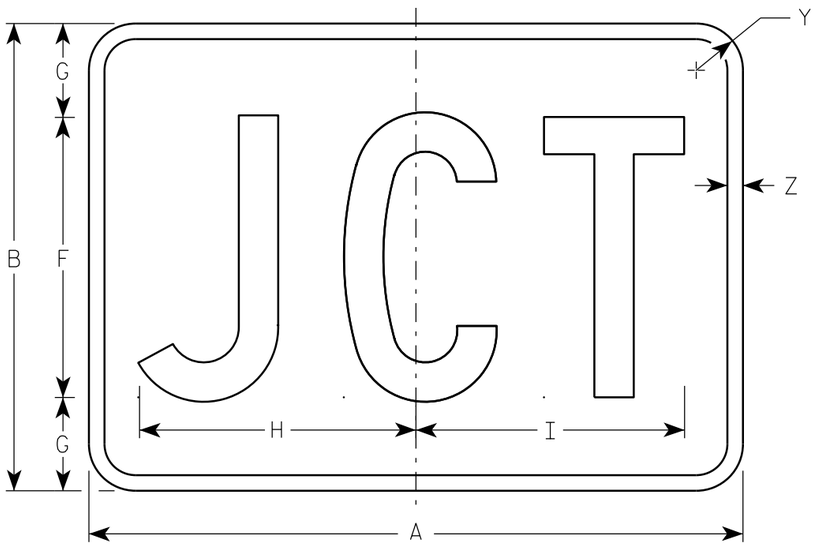
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 216	E



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

NOTES

1. Sign is 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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MR2-1 Background - Brown
   Message - Yellow

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	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

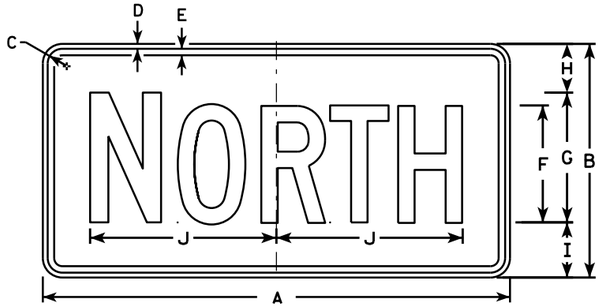
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

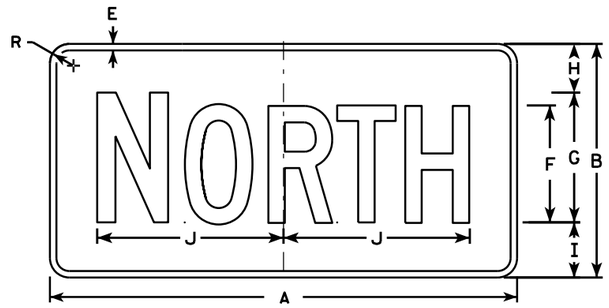
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 217 12-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

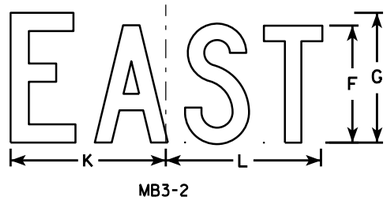


M3-1
MK3-1
MM3-1
MN3-1

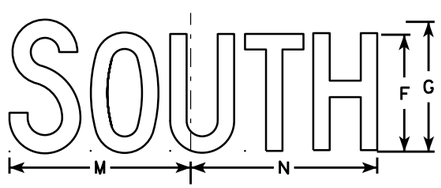


MB3-1

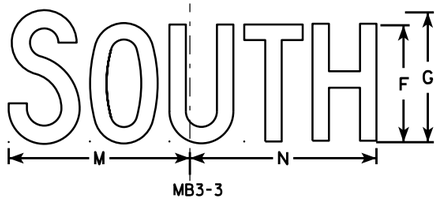
M3-2
MK3-2
MM3-2
MN3-2



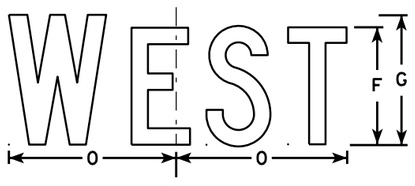
MB3-2



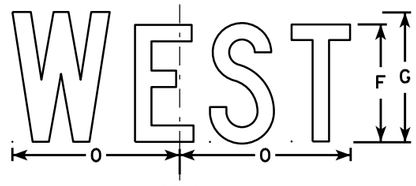
M3-3
MK3-3
MM3-3
MN3-3



MB3-3



M3-4
MK3-4
MM3-4
MN3-4



MB3-4

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
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

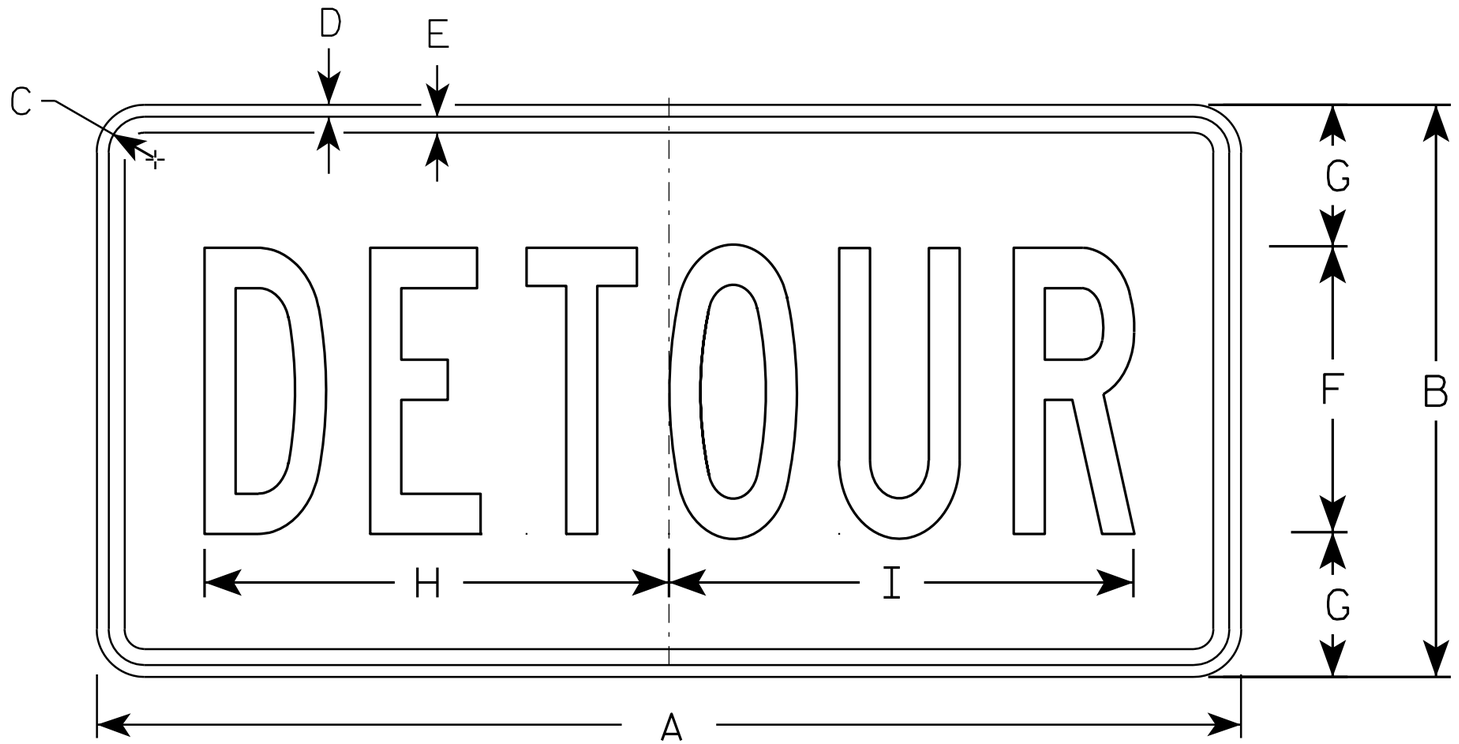
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/30/14 PLATE NO M3-1.13

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: 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																											

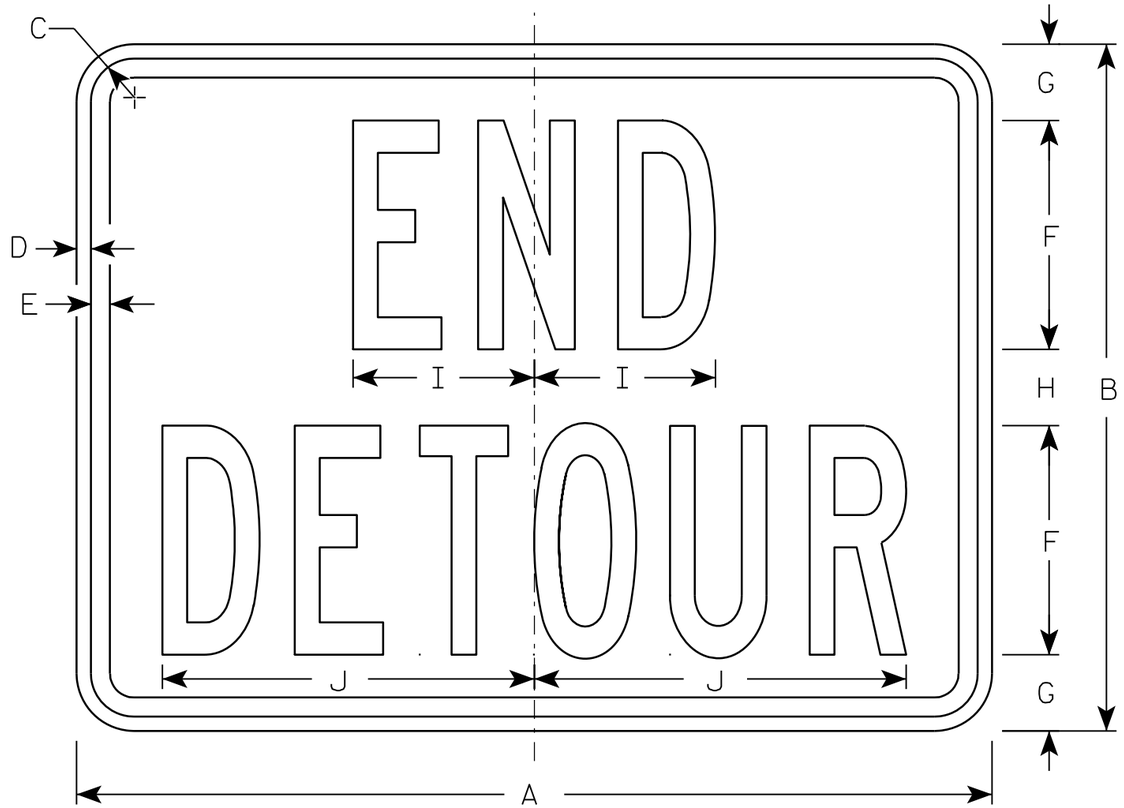
STANDARD SIGN
M4-8

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: 219	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																											

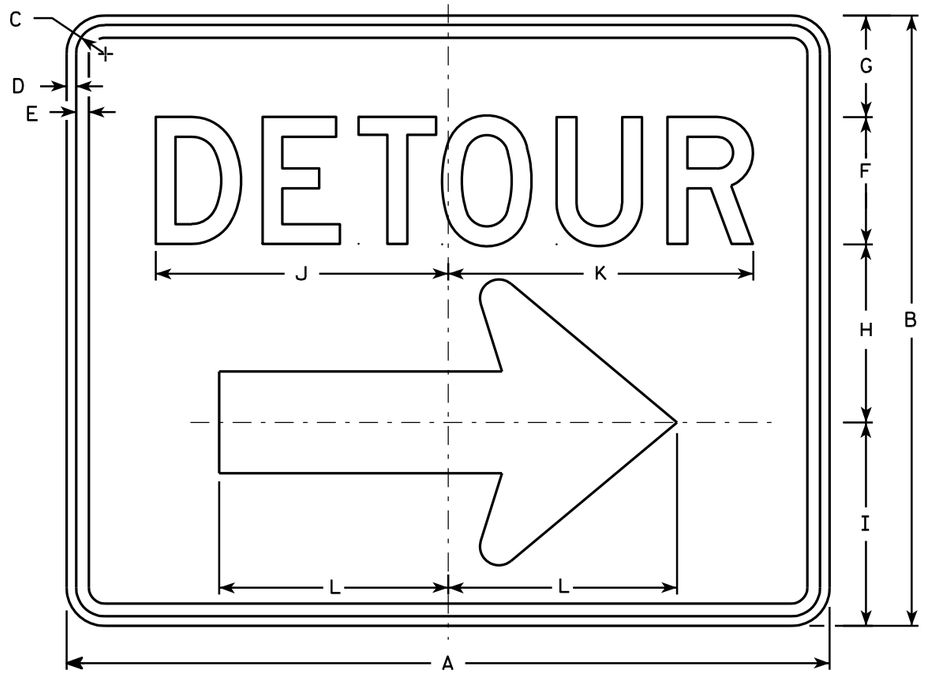
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

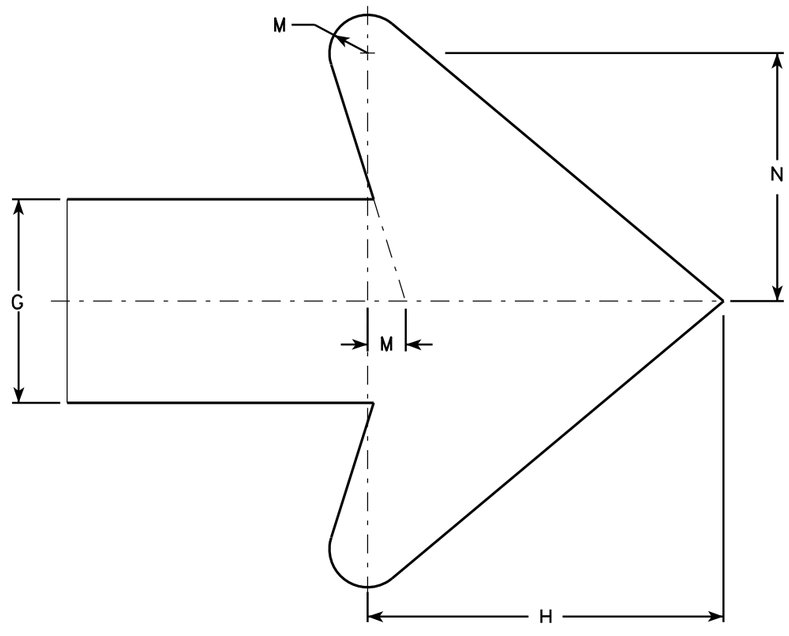
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E



M4-9R

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 - 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. M4-9L is the same as M4-9R except the arrow 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																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

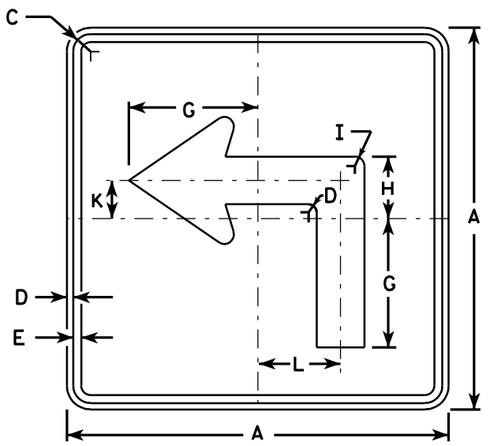
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

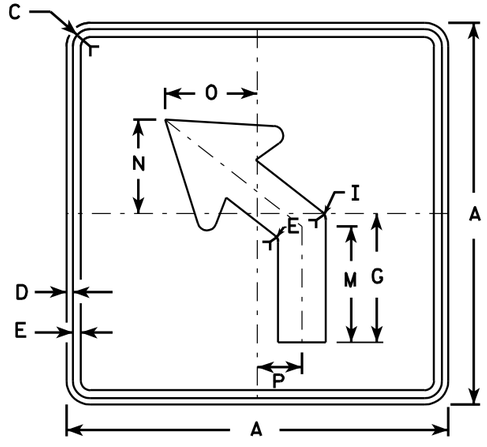
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

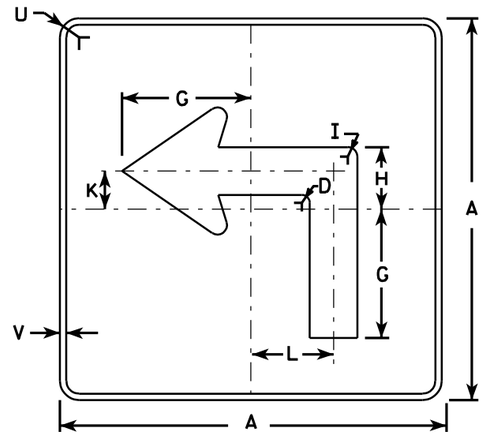
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 221 | E



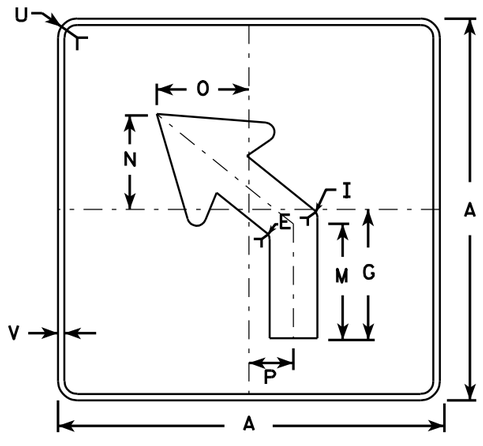
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



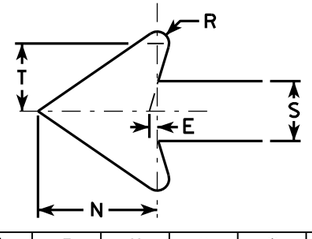
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H Reflective
   MG5-1 and MG5-2 Background - Green
   Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green
   Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White - Type H Reflective
   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 - Type H Reflective
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 1/8	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 1/8	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 1/8	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

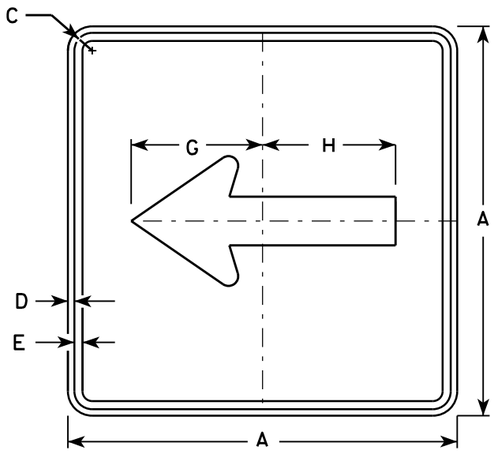
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

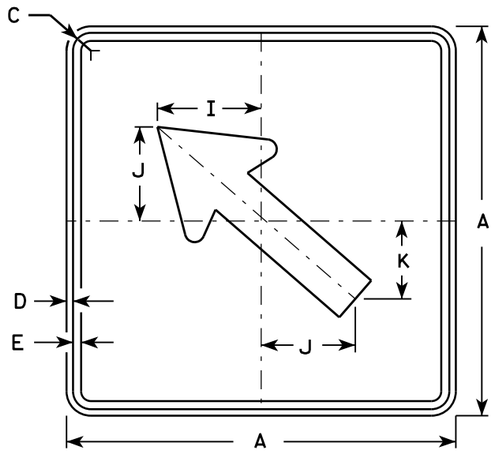
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 222 | E



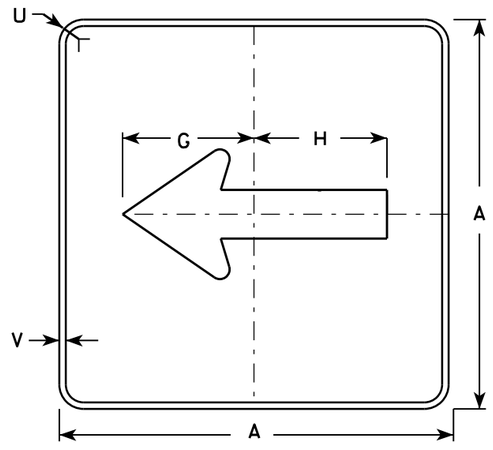
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



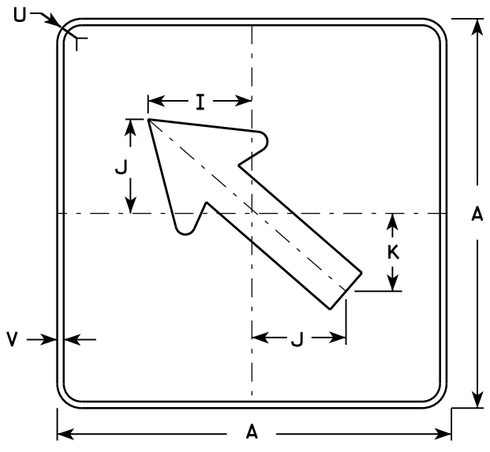
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

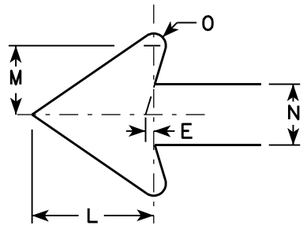
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MG6-1 and MG6-2 Background - Green
   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



MB6-2



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

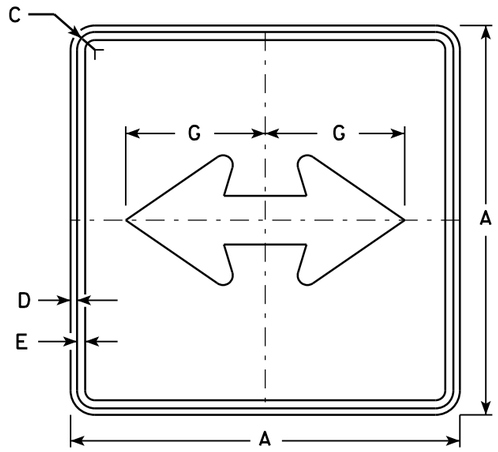
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

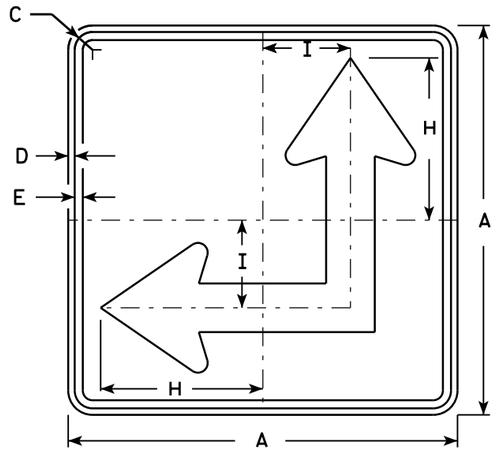
DATE 7/03/14 PLATE 223 M6-1.14

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

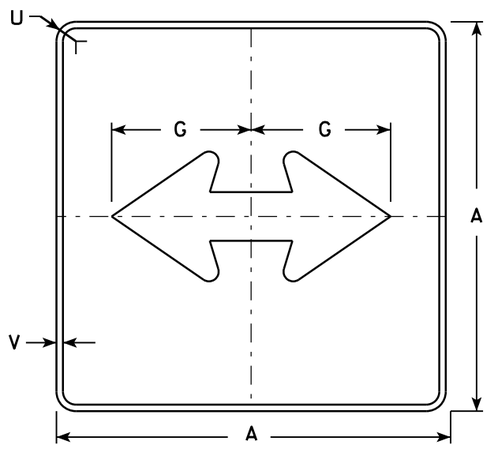
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 03-JUL-2014 14:28 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000
WISDOT/CADDS SHEET 42



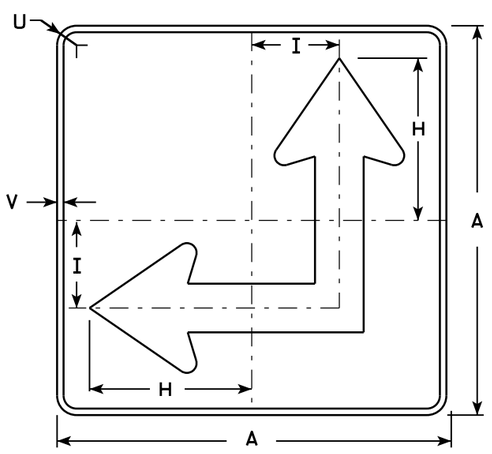
M6-4
MK6-4
MM6-4
MN6-4
MO6-4
MP6-4
MR6-4



M6-6
MK6-6
MM6-6
MN6-6
MO6-6
MP6-6
MR6-6



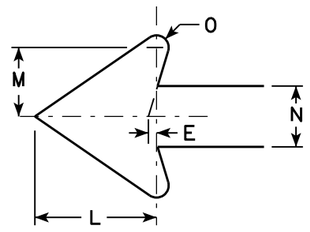
MB6-4



MB6-6

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.



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

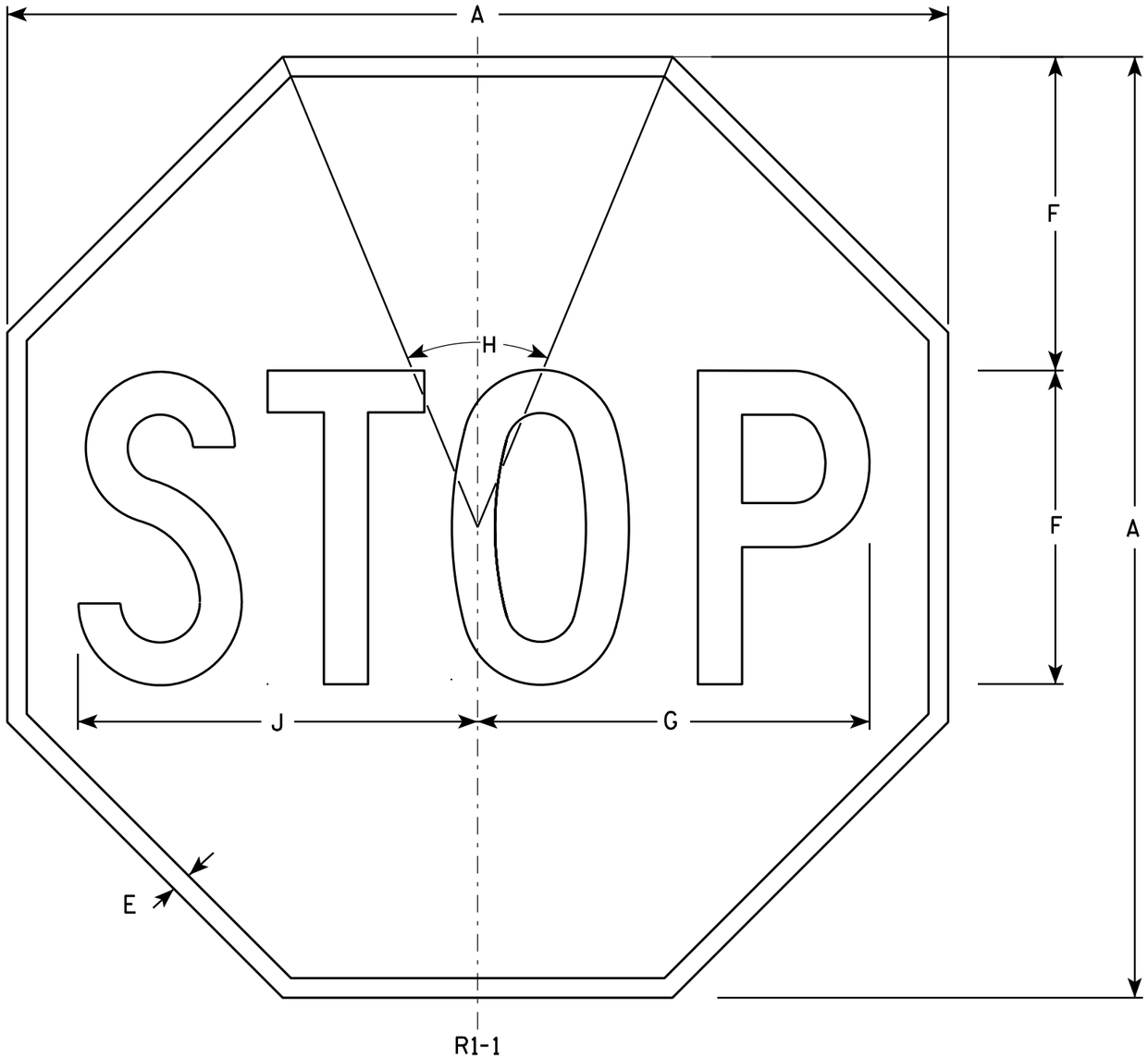
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/03/14 PLATE M6-4.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 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 - 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	24				3/8	8	10	45°		10 1/4																	3.31
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

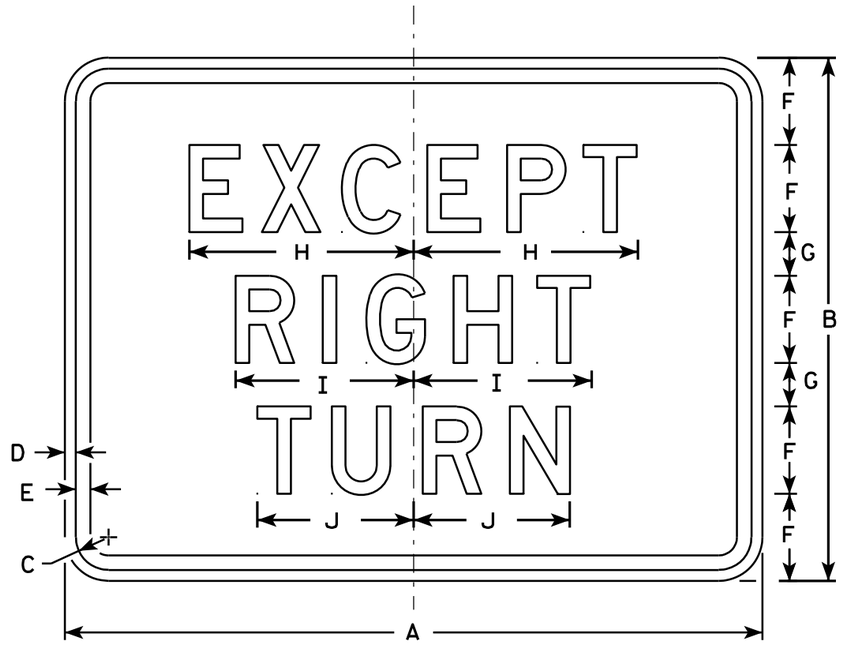
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 225	E



R1-10P

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	1/2	3	1 1/2	7 3/4	6 1/8	5 3/8																	3.0
2M	24	18	1 1/8	3/8	1/2	3	1 1/2	7 3/4	6 1/8	5 3/8																	3.0
3																											
4																											
5																											

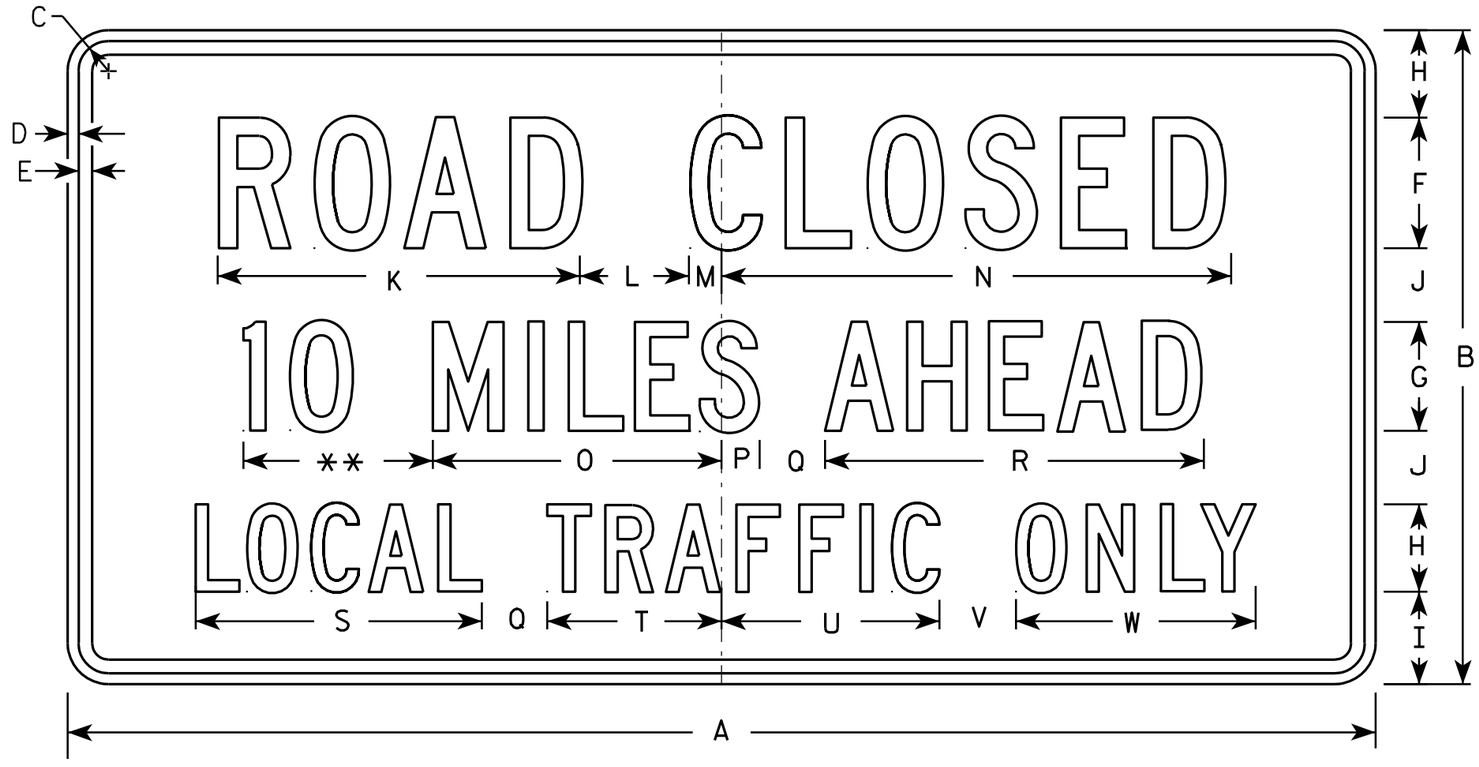
STANDARD SIGN
R1-10P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R1-10P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E



R11-3

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
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	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

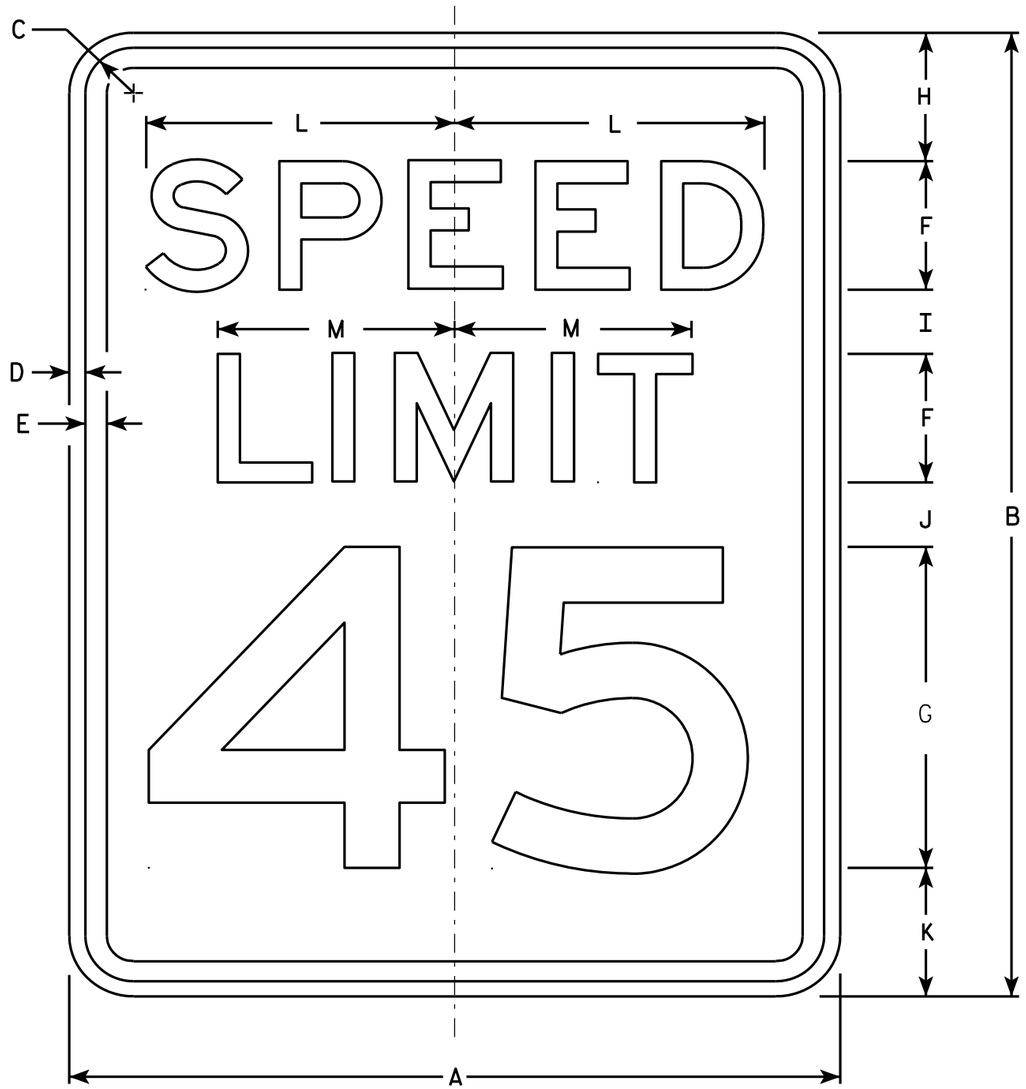
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 227 | E



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

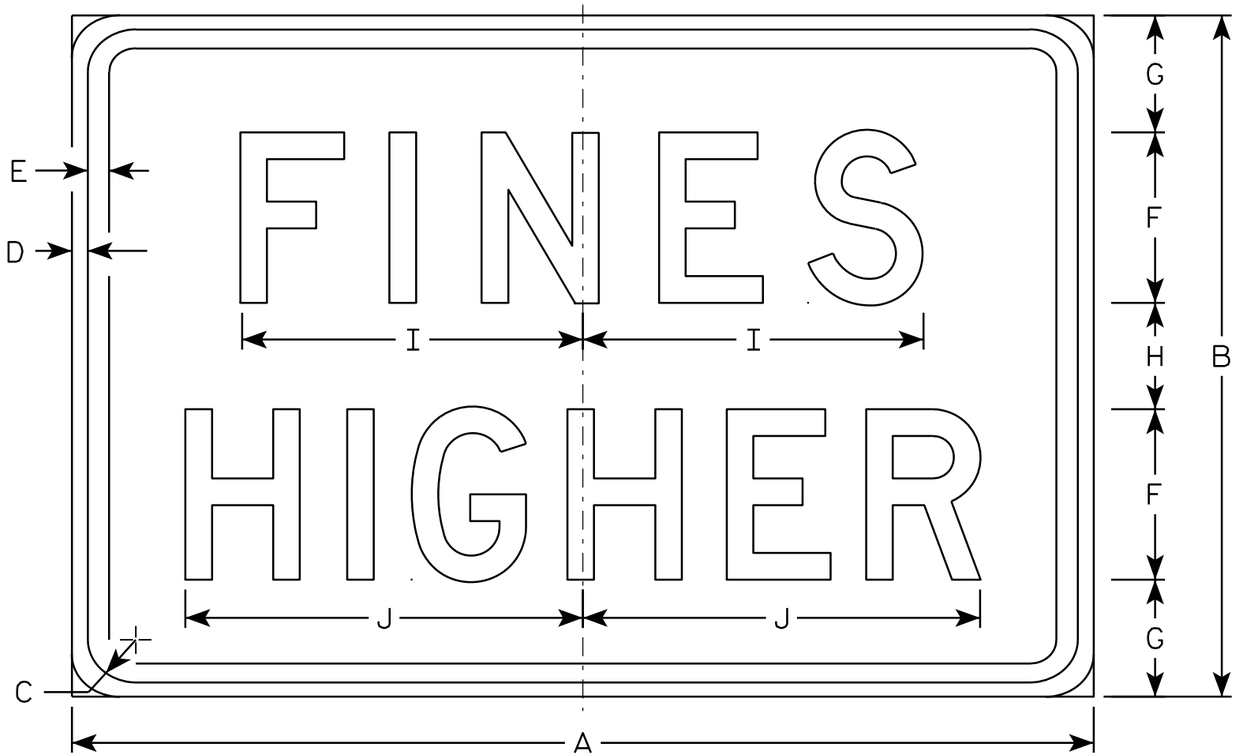
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 228 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



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

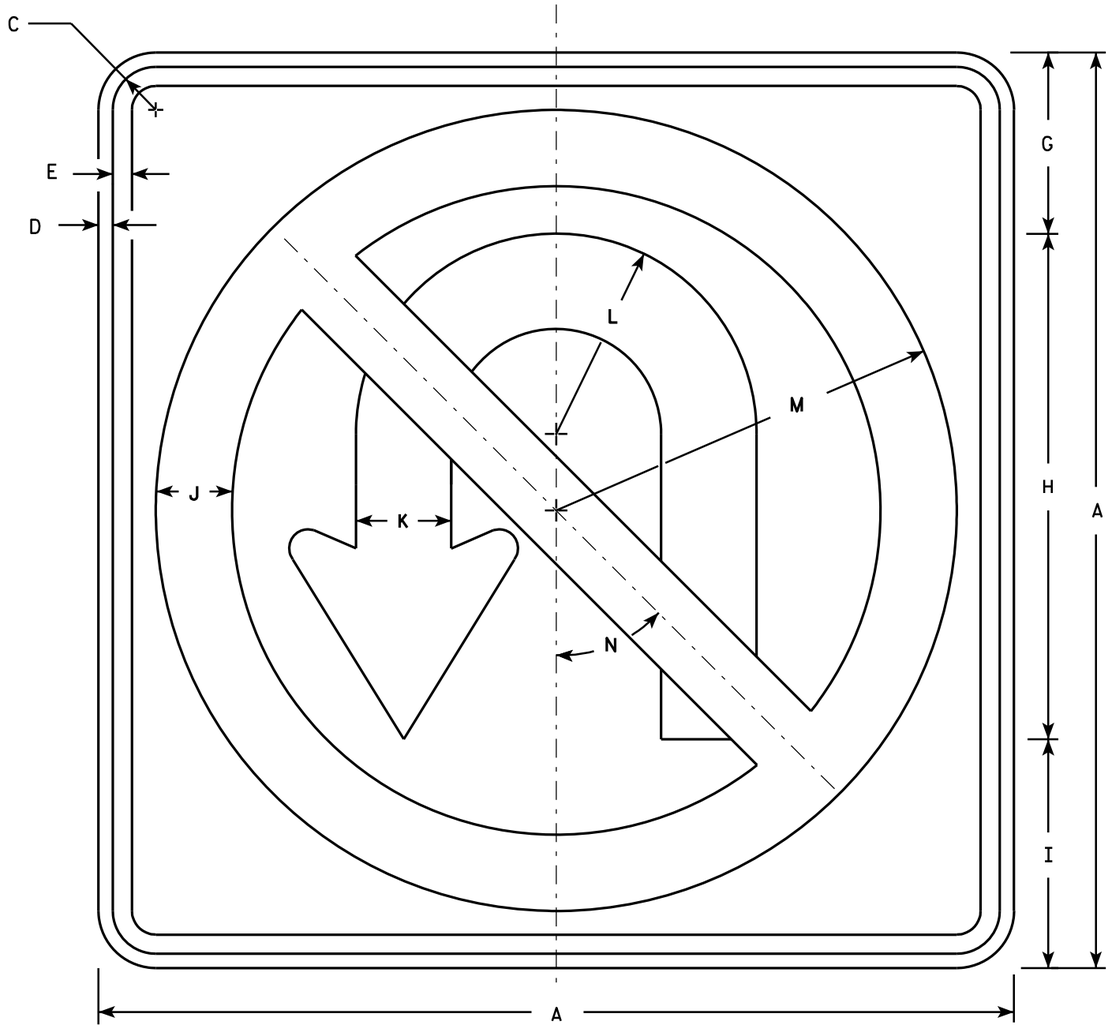
STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

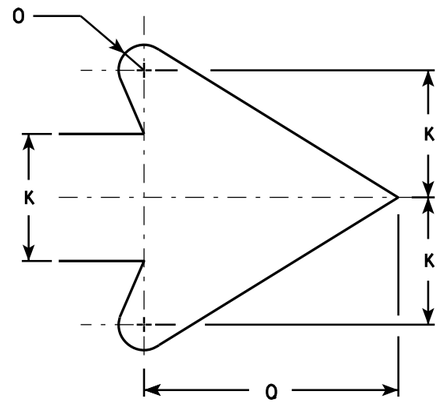
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 229 | E



R3-4

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																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

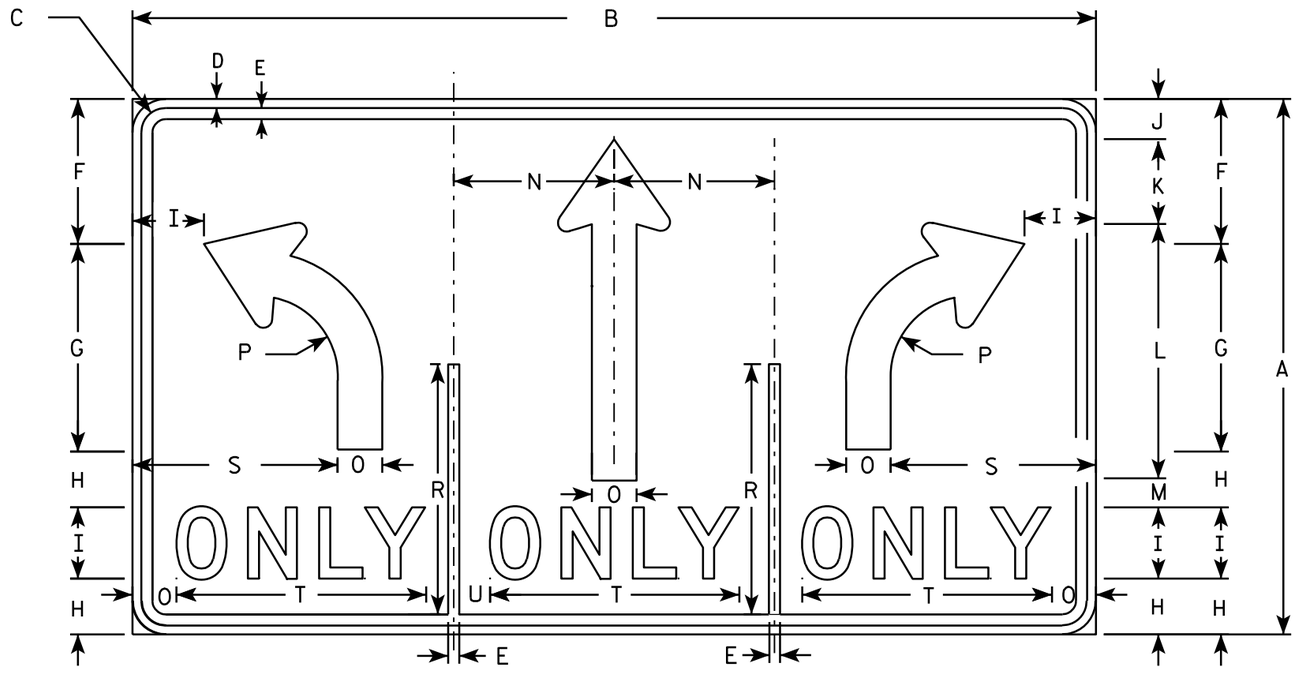
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

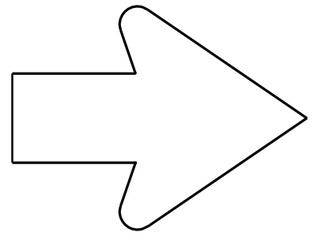
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 230	E



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

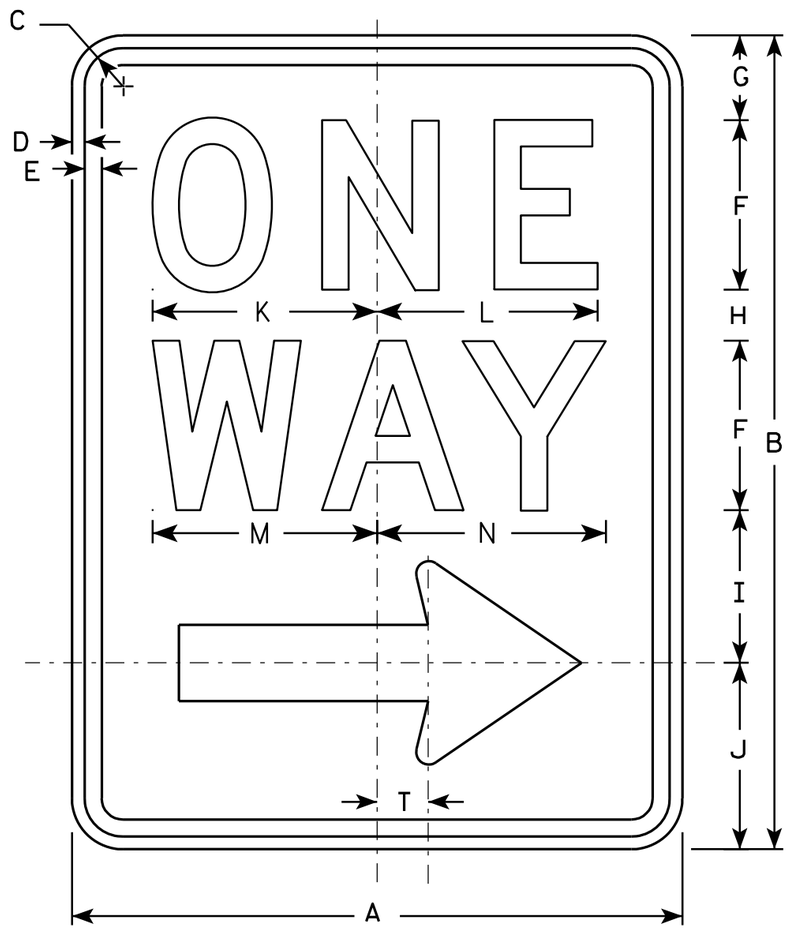
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

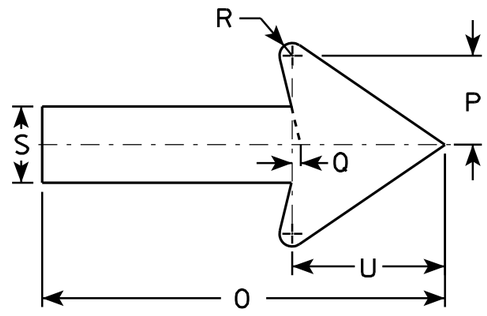
SHEET NO: 231 E



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	Q	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																										

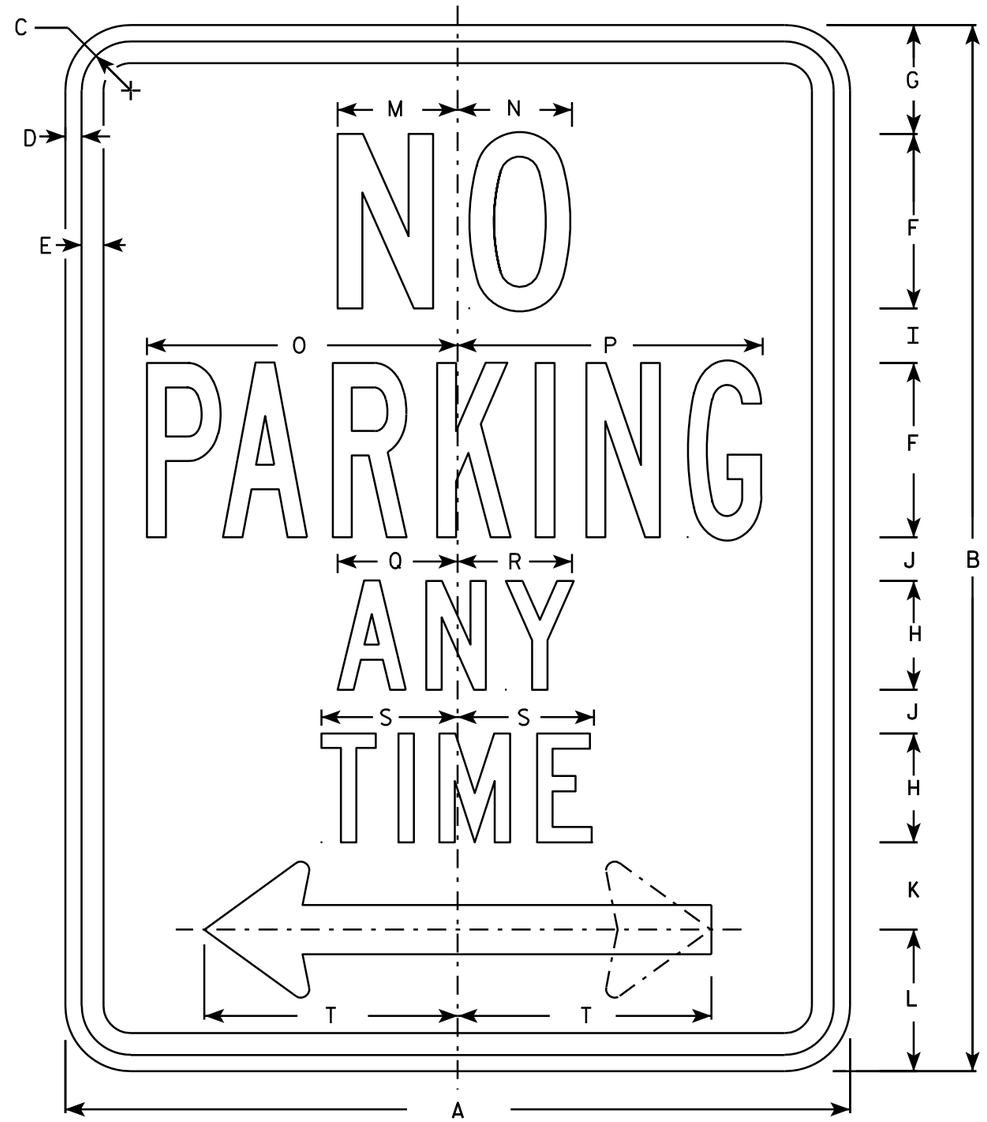
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

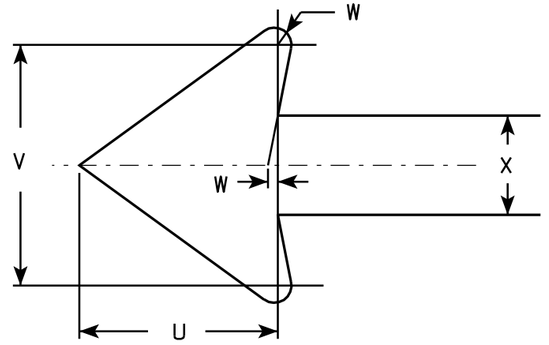
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 232	E



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: 233	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

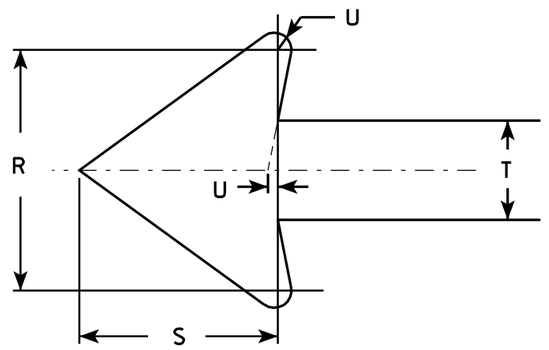
WISDOT/CADDS SHEET 42

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

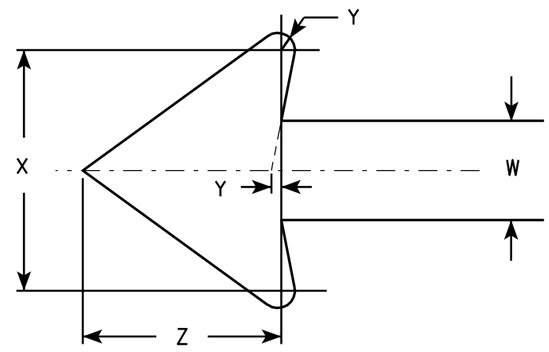
DATE 3/31/2011 PLATE NO. R7-2.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 234	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	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	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																											

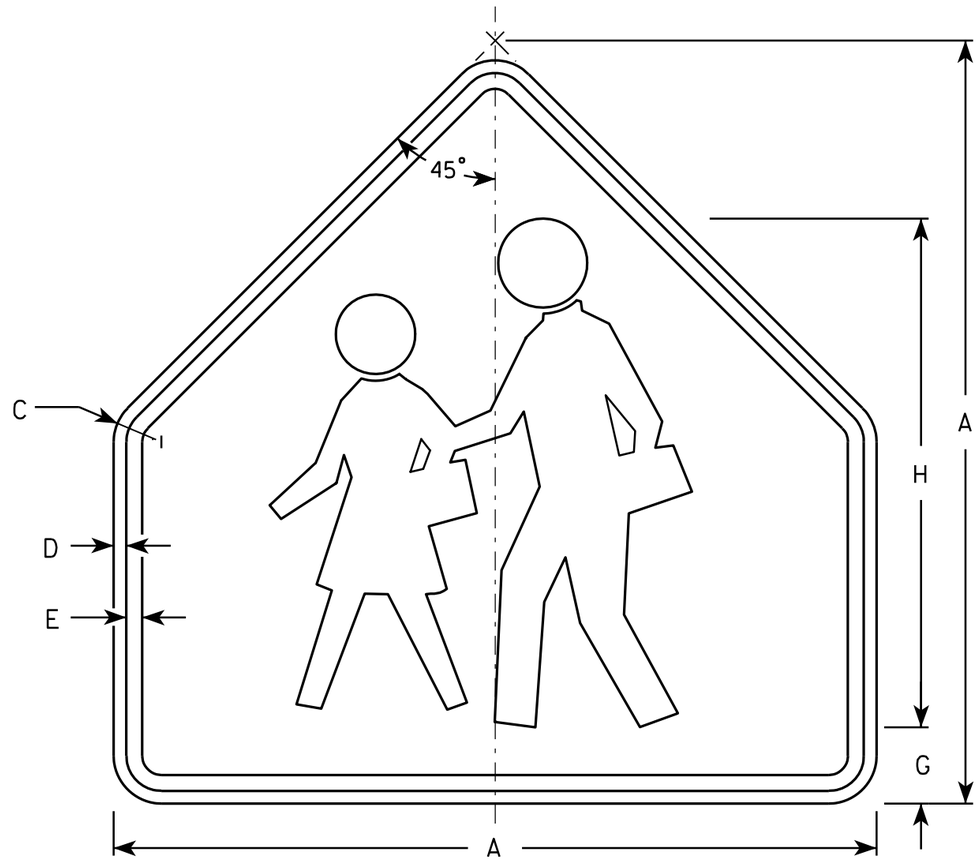
STANDARD SIGN
R7-51

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: 235	E



S1-1

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-Green
   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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

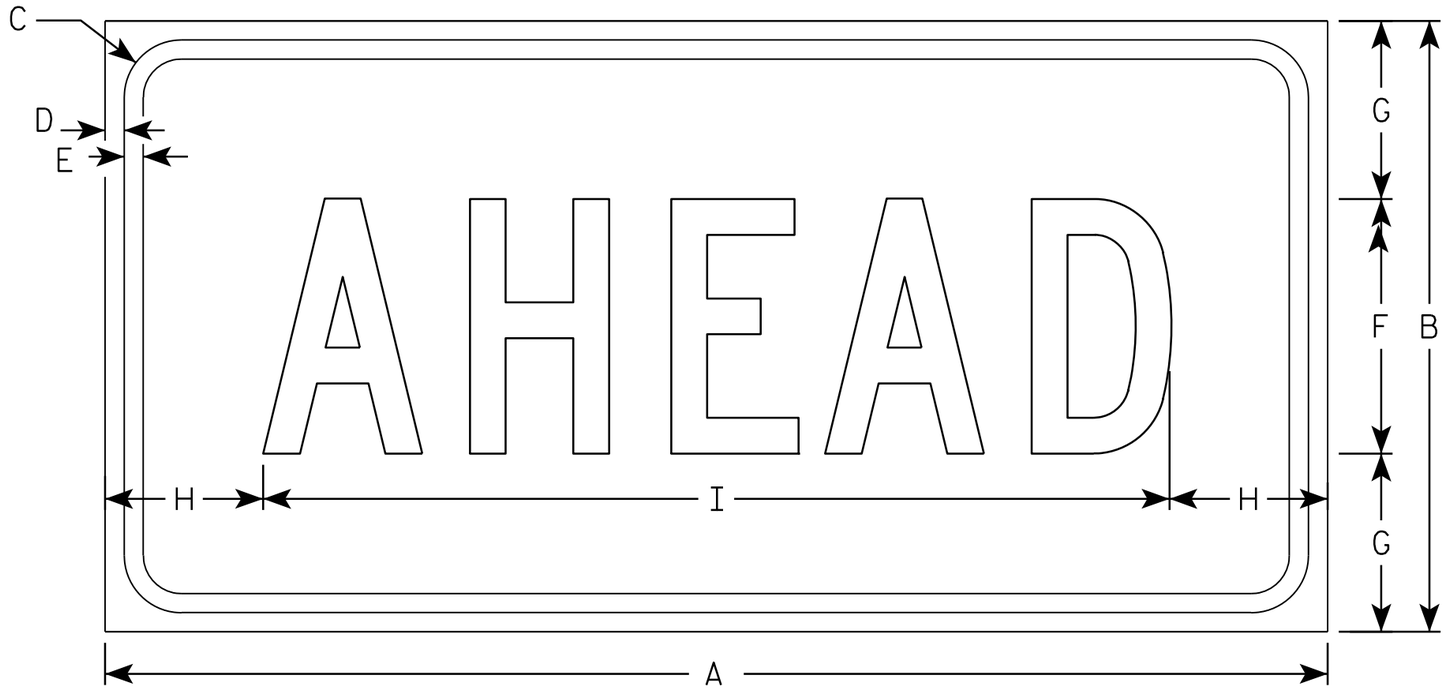
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 236	E



S16-9P

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-Green
   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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

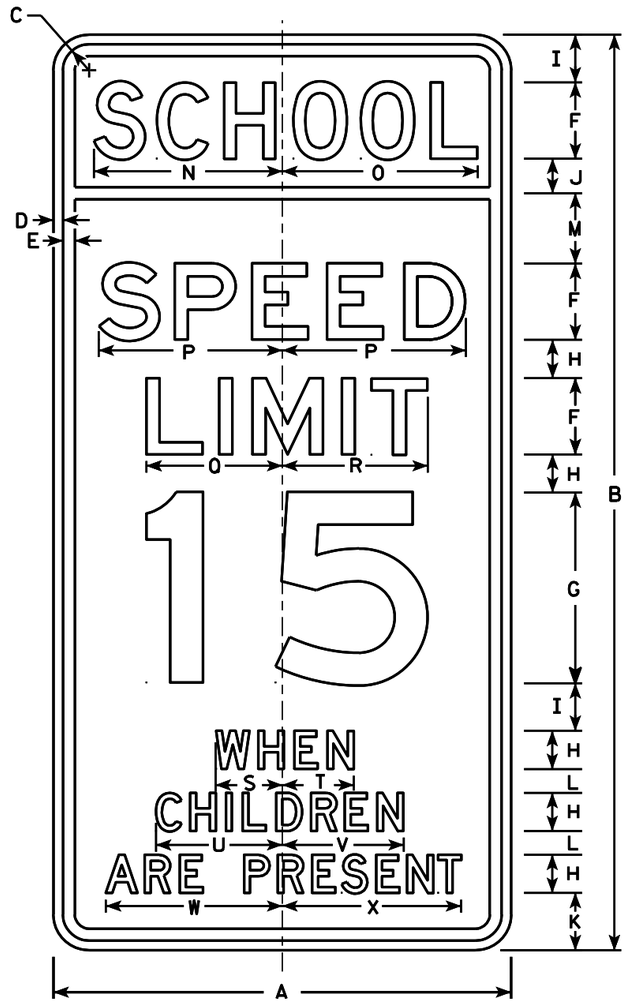
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 237 | E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   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. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
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.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

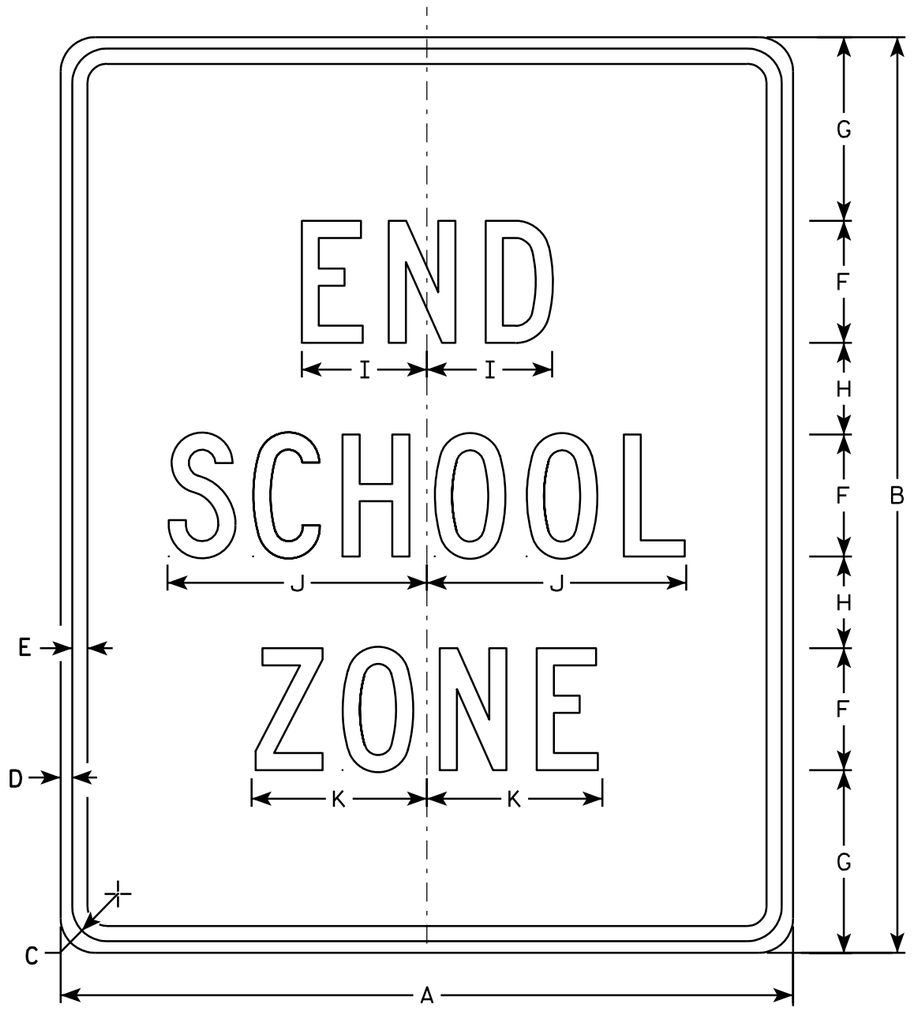
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 238 | E



S5-2

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 - 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																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN
S5-2

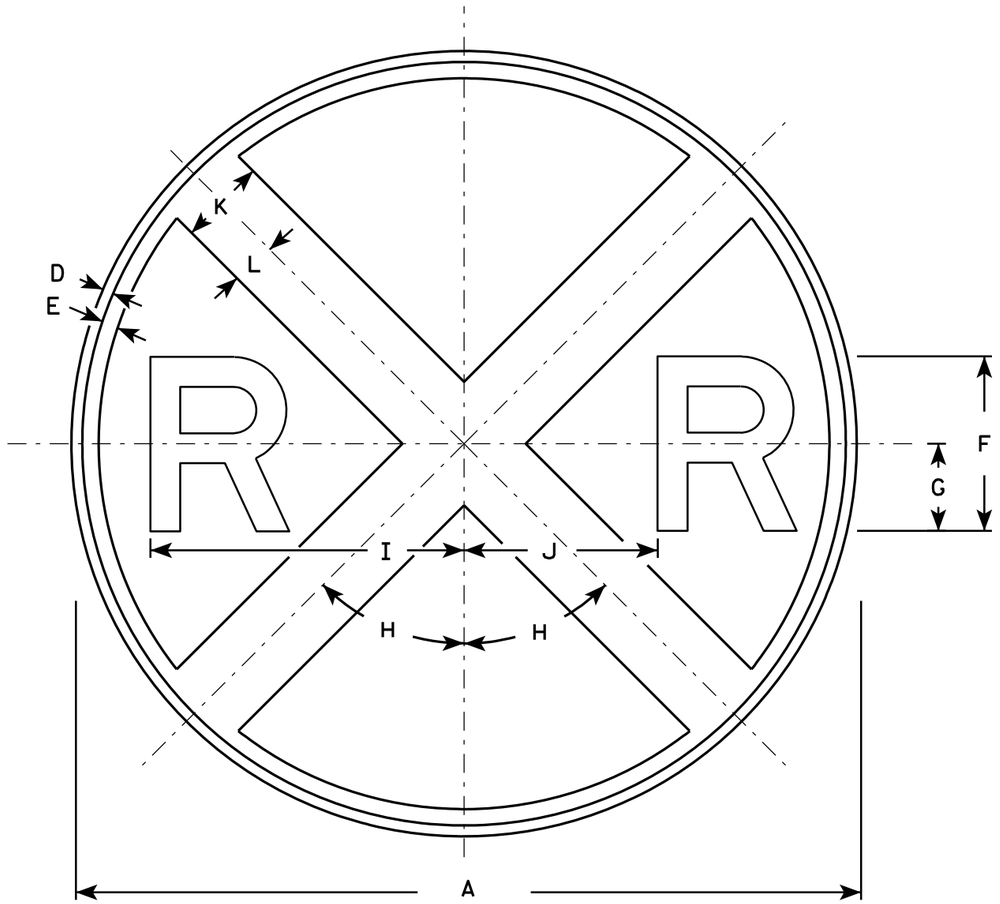
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 239 | E

7



W10-1

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 - 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	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

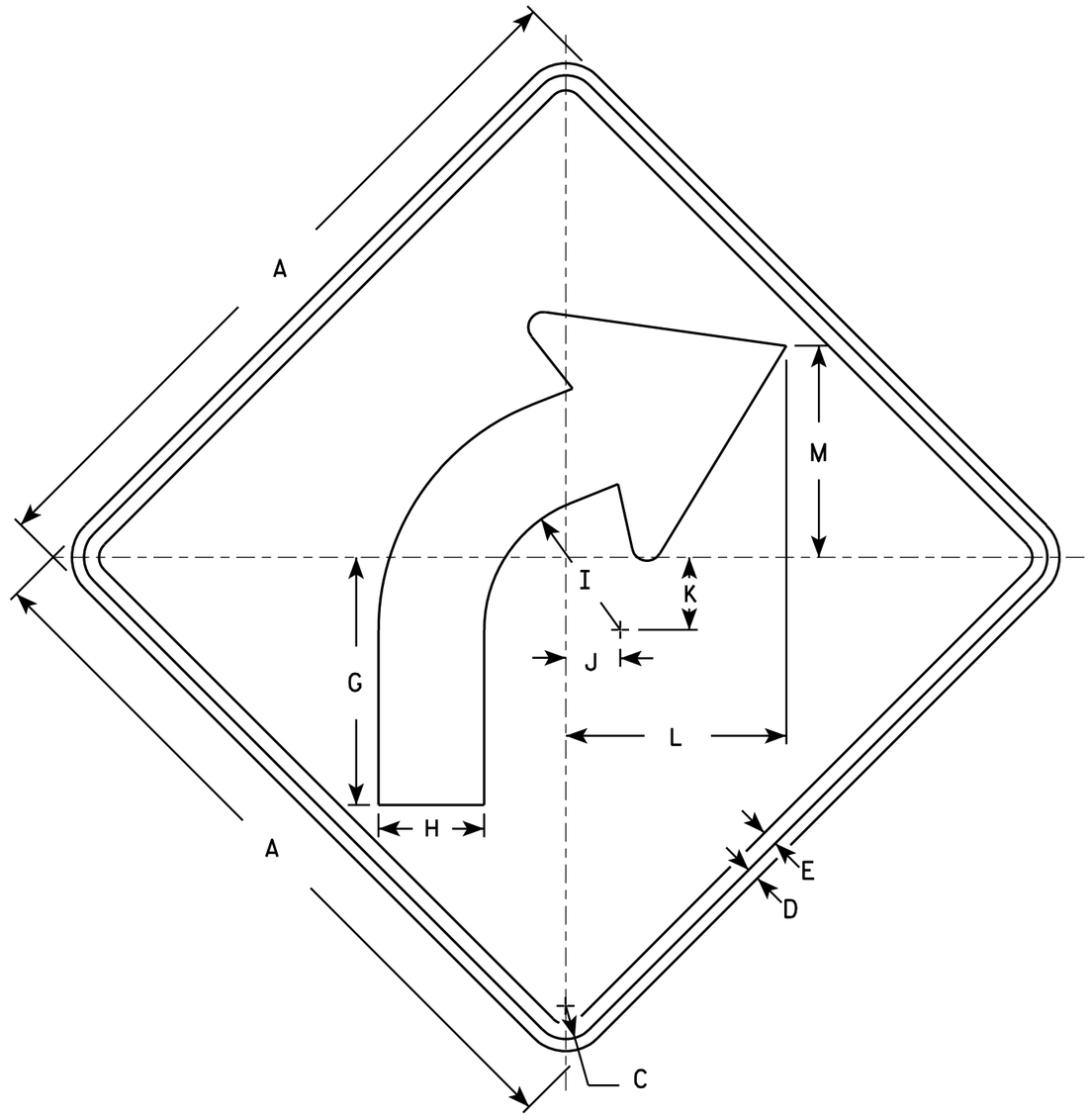
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

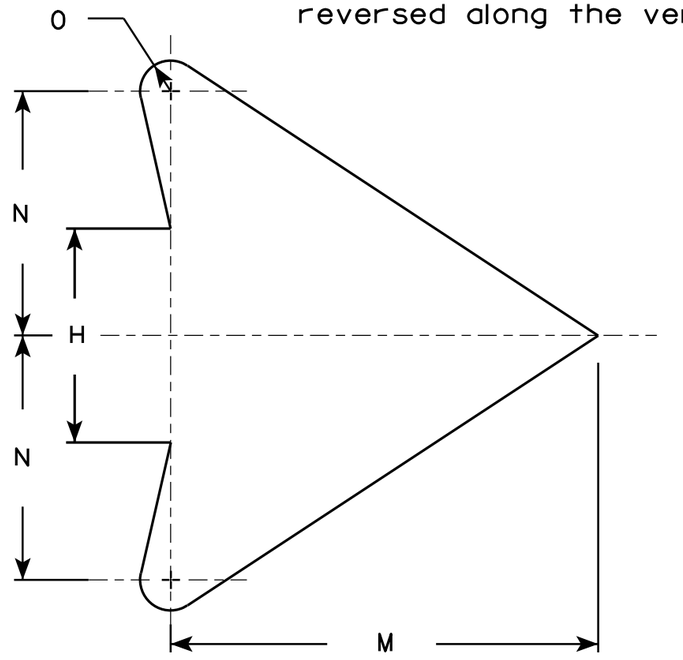
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E

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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

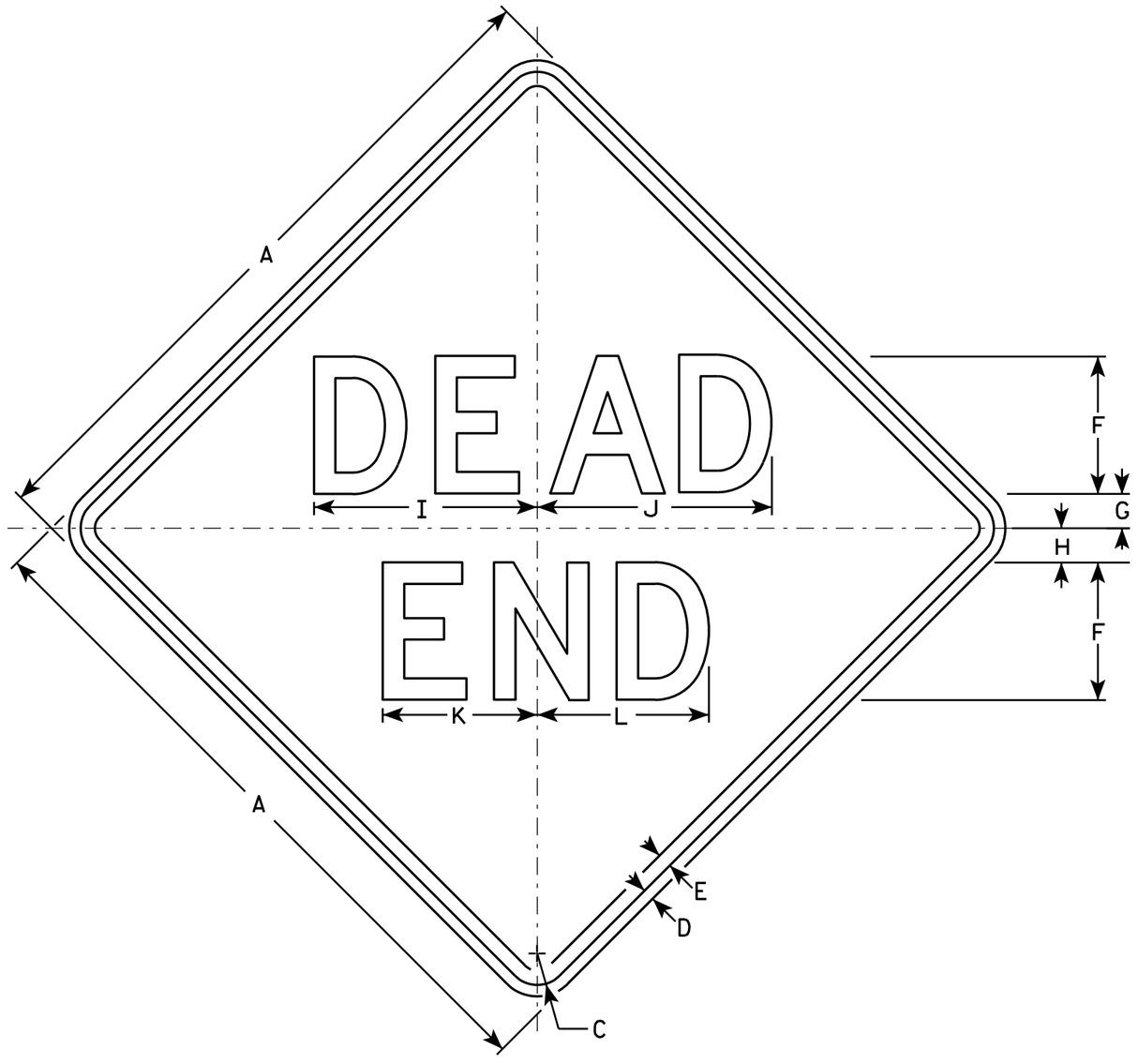
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E



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																											

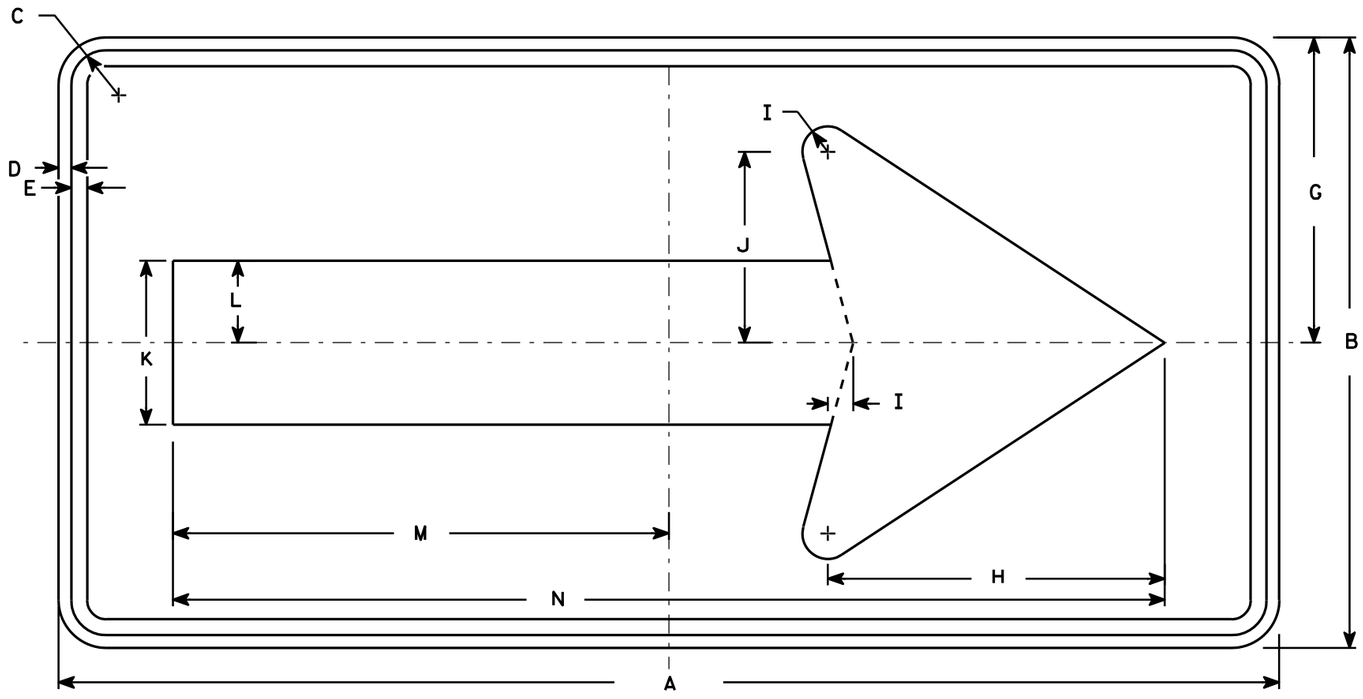
STANDARD SIGN
W14-1

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: 242	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
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	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

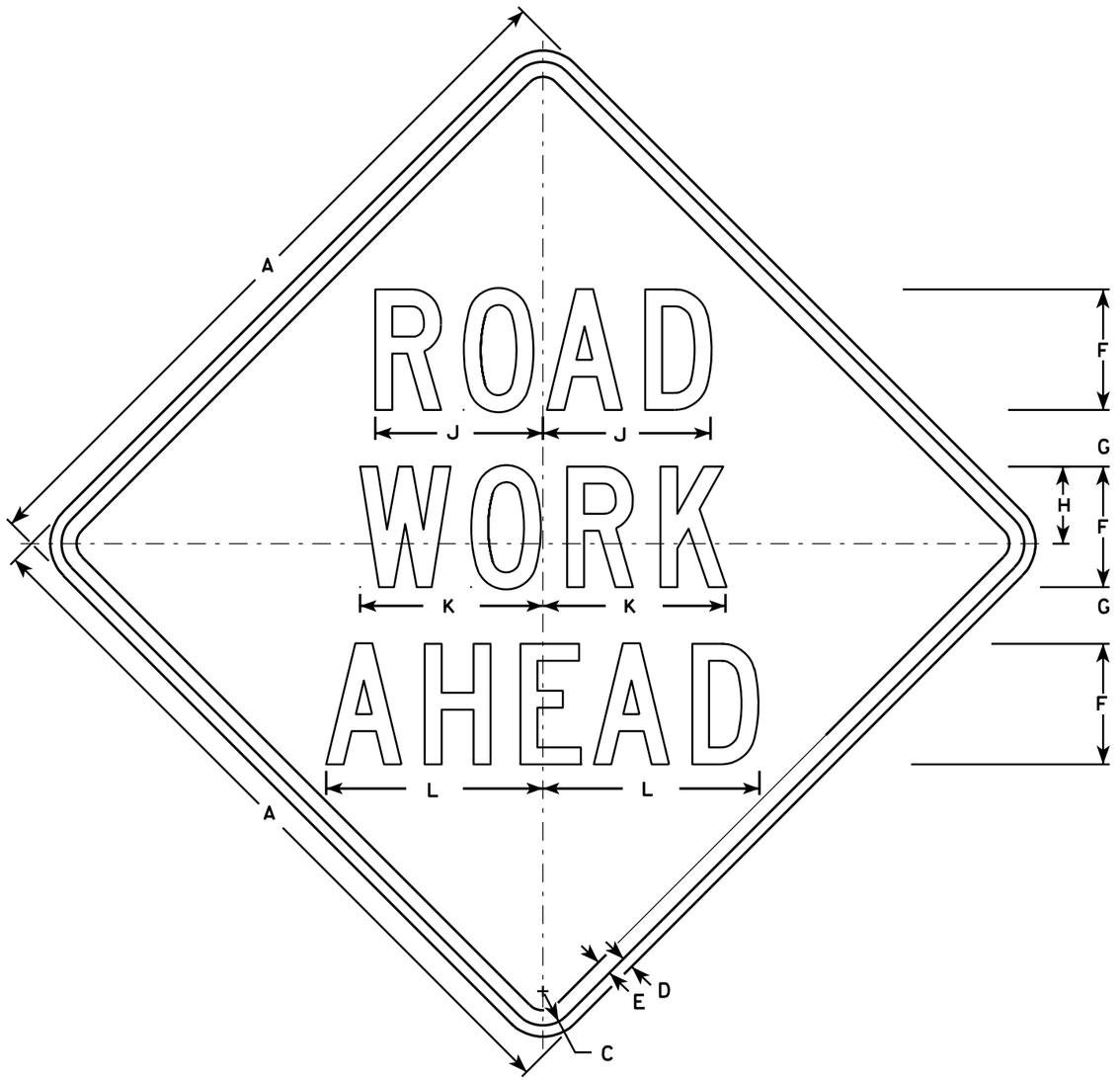
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

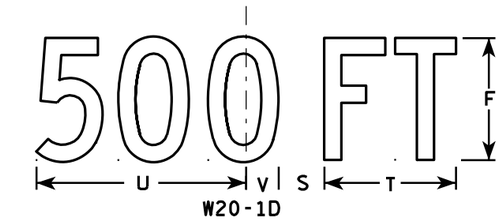
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

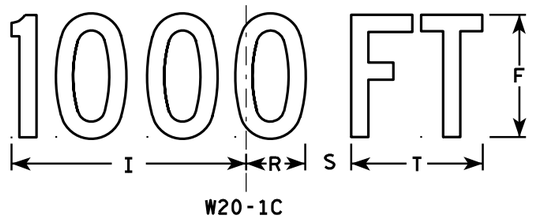
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243



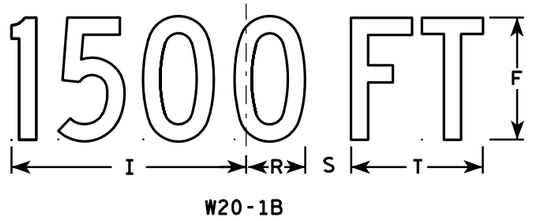
W20-1A



W20-1D

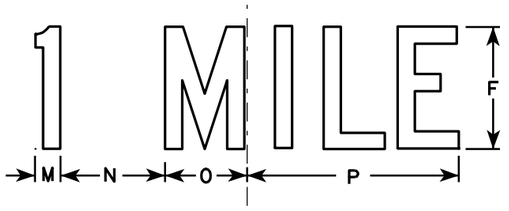


W20-1C



W20-1B

W20-1G



W20-1F

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.

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	1 7/8	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		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		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		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		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		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 3/18/11 PLATE NO. W20-1.9

PROJECT NO:

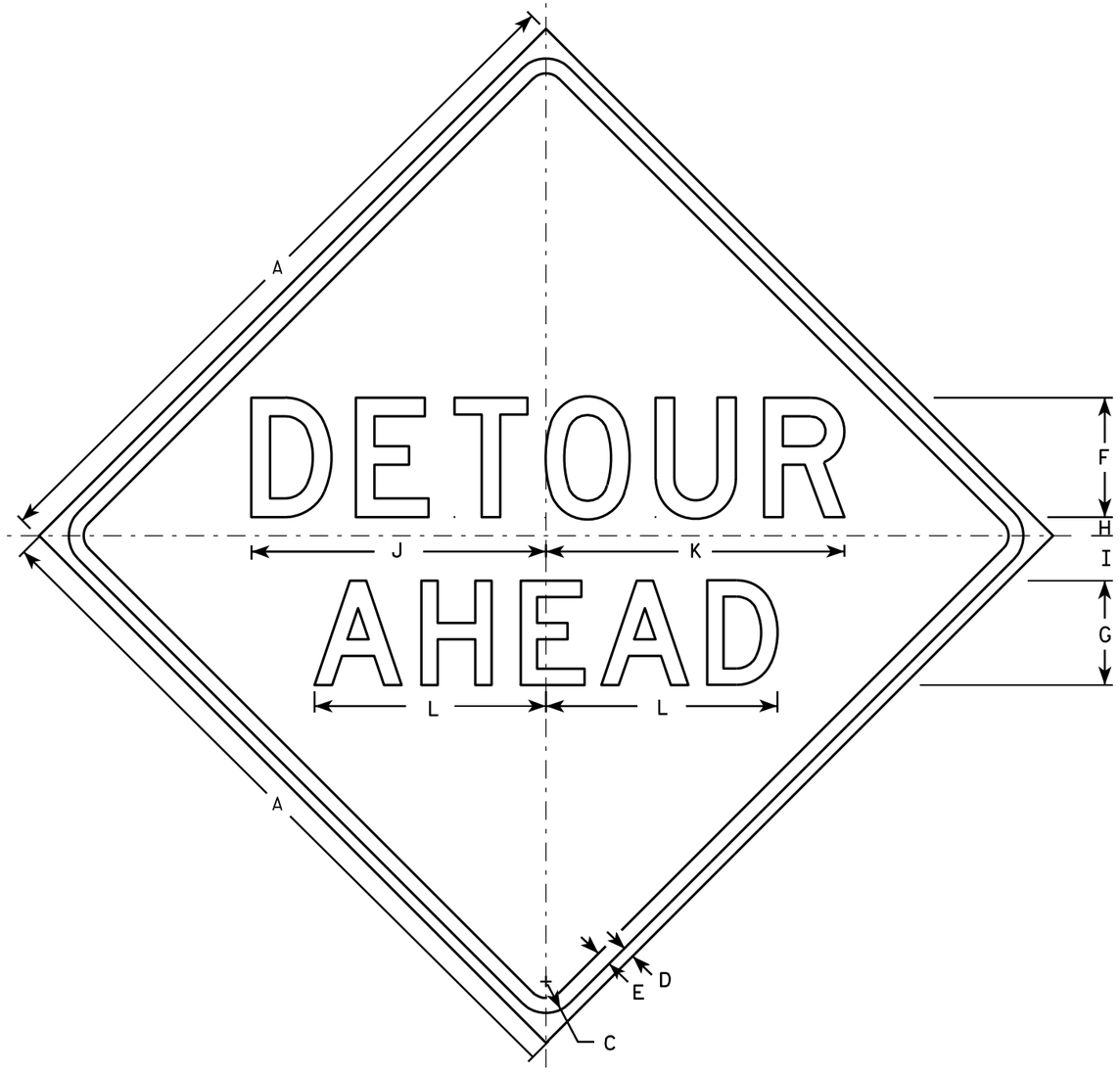
SHEET NO: 244 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN PLOT DATE : 18-MAR-2011 09:56 PLOT BY : mscj9h

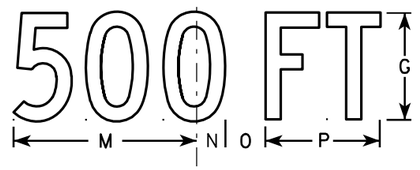
WISDOT/CADDS SHEET 42

7

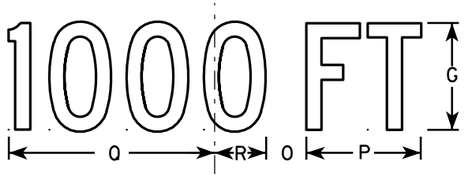
7



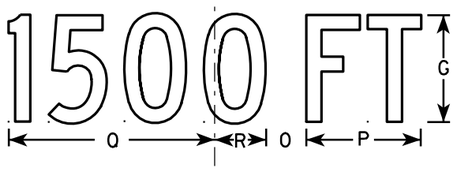
W20-2A



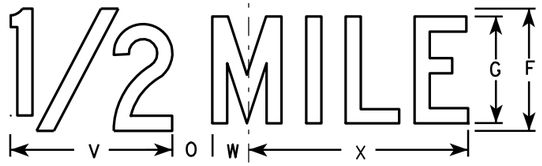
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

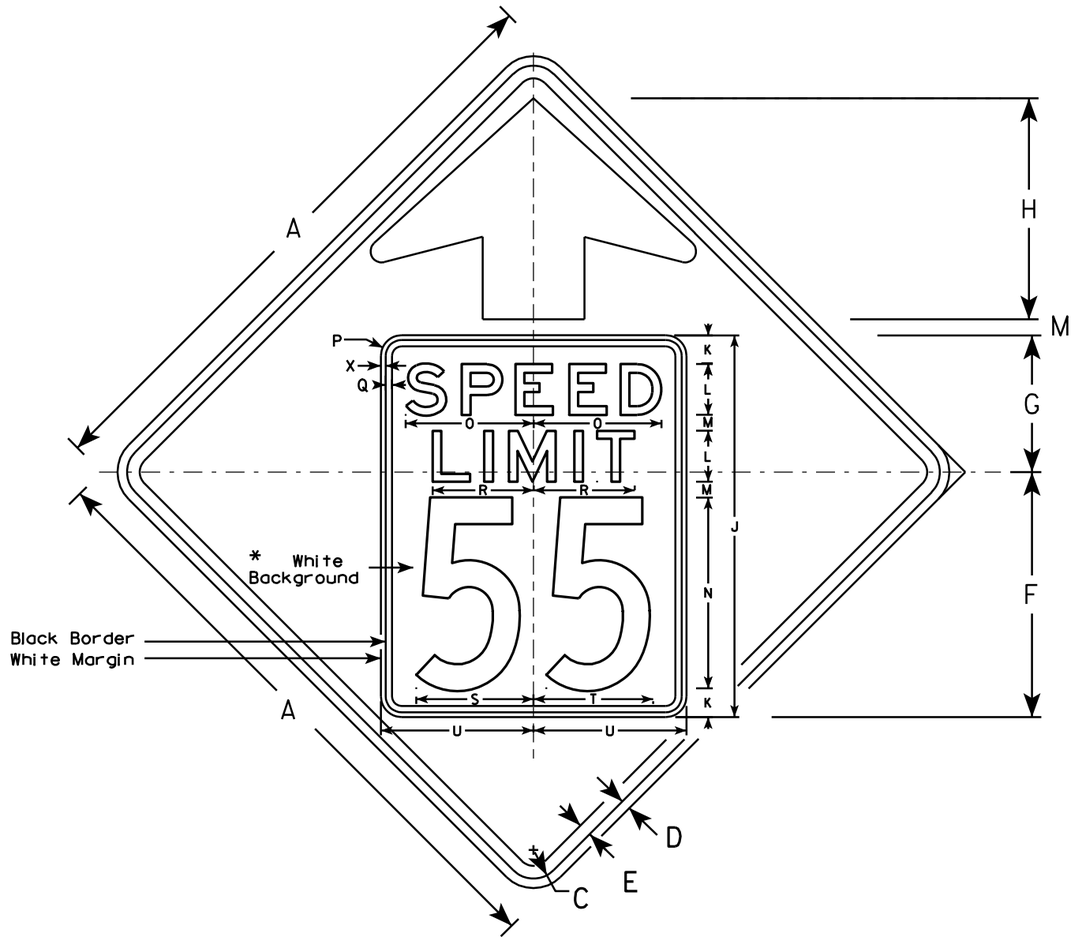
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 245 | E

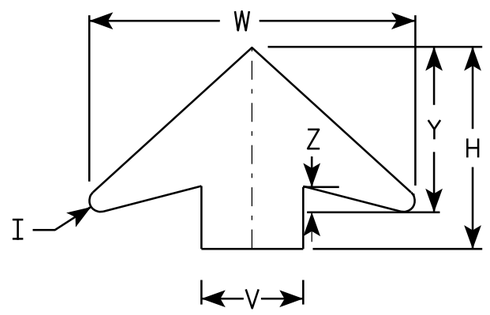


W3-5

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 - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



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	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

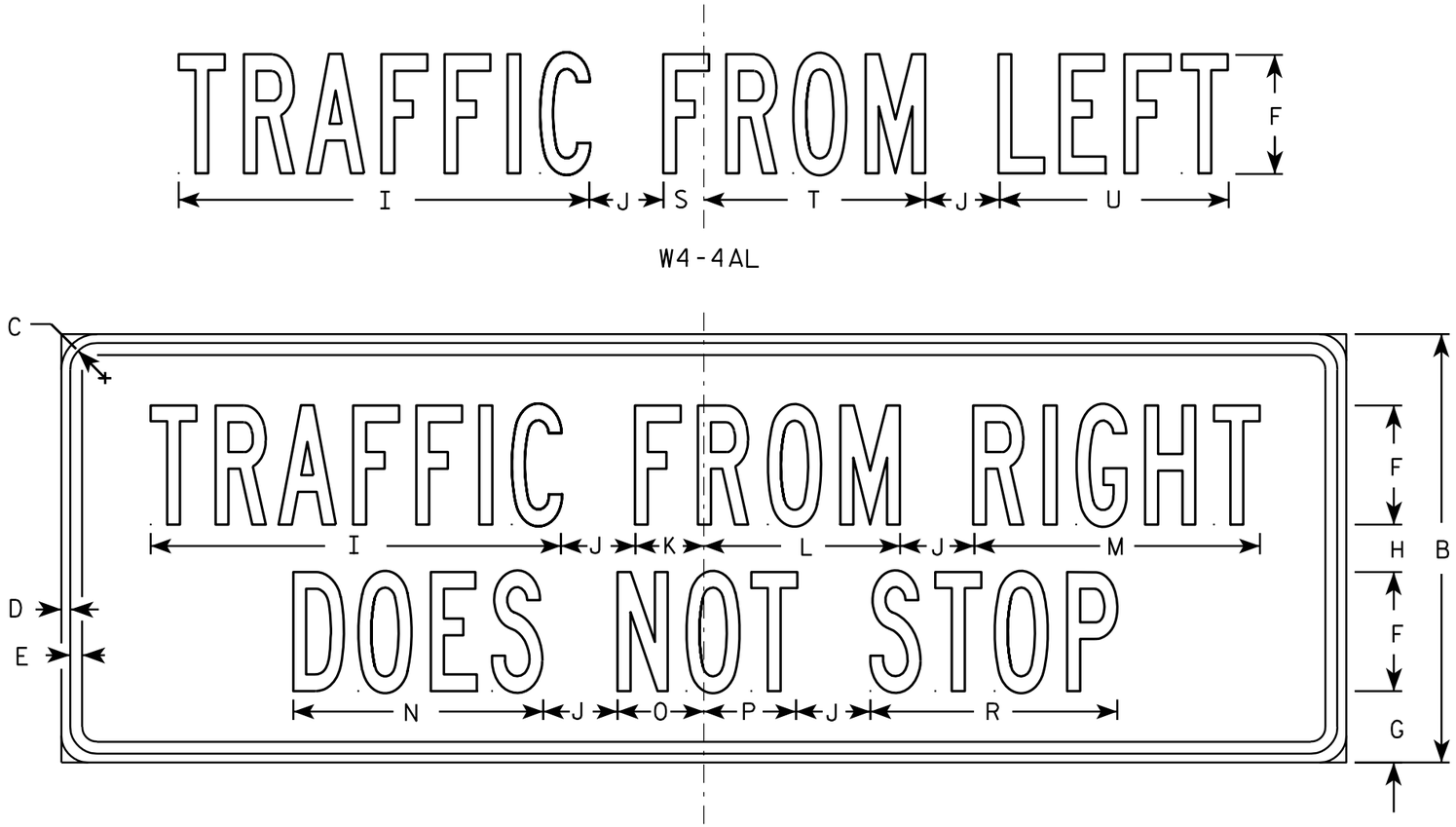
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 246 E



W4-4AL

W4-4AR

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 - 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																											
2S	30	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	1 3/4	4 7/8	7 1/4	6 1/4	2 1/4	2 1/4		6 1/4	1	5 5/8	5 3/4						2.5
2M	30	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	1 3/4	4 7/8	7 1/4	6 1/4	2 1/4	2 1/4		6 1/4	1	5 5/8	5 3/4						2.5
3	42	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	2 1/8	6 3/4	9 3/4	8 3/8	2 3/4	3 3/8		8 3/8	1 1/8	7 3/4	7 3/4						4.4
4	54	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	2 7/8	8 1/4	12	10 1/2	3 5/8	3 7/8		10 3/8	1 3/4	9 3/8	9 5/8						6.8
5																											

STANDARD SIGN
W4-4AL & W4-4AR

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 247 | E

W4-4B

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 - 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																											
2S	30	12	1 1/8	3/8	1/2	3	2 1/4	1 1/2	12 3/8	5/8	1 1/2	10 3/8	6 1/4	2 1/4	2 1/4	6 1/4											2.5
2M	30	12	1 1/8	3/8	1/2	3	2 1/4	1 1/2	12 3/8	5/8	1 1/2	10 3/8	6 1/4	2 1/4	2 1/4	6 1/4											2.5
3	42	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	16 7/8	5/8	2 3/8	13 7/8	8 3/8	3	3 1/8	8 3/8											4.17
4	48	18	1 1/8	3/8	1/2	5	3	2	21	5/8	3 1/8	17 1/4	10 1/2	3 5/8	3 7/8	10 3/8											6.0
5																											

STANDARD SIGN
W4-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 248	E

EARTHWORK - STH 22

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
440+90.94	35.99	0.00					
441+00.00	61.88	0.00	16	0	16	0	16
441+50.00	83.36	0.00	134	0	151	0	151
442+00.00	54.21	0.00	127	0	278	0	278
442+50.00	62.47	0.34	108	0	386	0	386
443+00.00	71.19	0.39	124	1	510	2	509
443+50.00	67.06	1.08	128	1	638	4	635
444+00.00	60.79	0.27	118	1	756	5	751
444+24.89	64.27	0.00	58	0	814	6	808
444+50.00	59.92	0.01	58	0	872	6	866
445+11.35	61.75	0.00	138	0	1,010	6	1,004
445+50.00	63.04	0.00	89	0	1,099	6	1,094
445+62.72	61.53	0.00	29	0	1,129	6	1,123
446+00.00	55.58	0.00	81	0	1,210	6	1,204
446+16.42	59.16	0.00	35	0	1,244	6	1,239
446+50.00	58.53	0.00	73	0	1,318	6	1,312
447+00.00	59.86	0.43	110	0	1,427	6	1,421
447+50.00	53.76	0.88	105	1	1,533	8	1,524
448+00.00	53.28	1.98	99	3	1,632	12	1,620
448+50.00	83.71	0.00	127	2	1,758	15	1,744
449+00.00	60.94	0.08	134	0	1,892	15	1,878
449+50.00	57.68	0.12	110	0	2,002	15	1,987
450+00.00	53.38	0.00	103	0	2,105	15	2,090
450+50.00	52.39	0.00	98	0	2,203	15	2,188
450+74.38	55.77	0.00	49	0	2,252	15	2,237
451+00.00	50.05	0.17	50	0	2,302	15	2,287
451+09.22	54.34	0.00	18	0	2,320	15	2,304
451+50.00	48.32	0.00	78	0	2,397	15	2,382
452+00.00	49.85	0.00	91	0	2,488	15	2,473
452+50.00	48.42	0.00	91	0	2,579	15	2,564
453+00.00	46.36	0.19	88	0	2,667	16	2,651
453+50.00	49.64	0.25	89	0	2,756	16	2,740
454+00.00	46.74	0.00	89	0	2,845	17	2,828
454+50.00	25.11	0.00	67	0	2,912	17	2,895
455+00.00	109.14	0.00	124	0	3,036	17	3,019
455+50.00	39.49	0.00	138	0	3,174	17	3,157
456+00.00	124.65	0.00	152	0	3,326	17	3,309
456+10.72	126.22	1.69	50	0	3,375	17	3,358
456+50.00	146.27	0.94	198	2	3,574	20	3,554
457+00.00	141.41	0.55	266	1	3,840	22	3,818

EARTHWORK - STH 22 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
457+25.00	137.10	0.52	129	0	3,969	23	3,946
457+50.00	129.99	0.03	124	0	4,093	23	4,069
457+70.66	133.73	0.12	101	0	4,193	23	4,170
458+00.00	127.60	0.39	142	0	4,335	24	4,312
458+41.90	126.27	0.63	197	1	4,532	25	4,507
458+50.00	115.79	0.68	36	0	4,569	25	4,544
459+00.00	119.21	0.69	218	1	4,786	27	4,759
459+50.00	127.22	0.20	228	1	5,015	28	4,986
460+00.00	157.44	0.00	264	0	5,278	29	5,249
05+14.3	76.85	0.24	216	0	5,494	29	5,465
05+50	160.50	0.00	157	0	5,651	29	5,622
06+00	139.07	0.00	277	0	5,929	29	5,899
06+38.64	140.75	0.00	200	0	6,129	29	6,100
06+50	134.51	0.00	58	0	6,187	29	6,158
06+73.78	142.08	0.00	122	0	6,309	29	6,279
07+00	135.10	0.11	135	0	6,443	29	6,414
07+50	141.30	0.64	256	1	6,699	30	6,669
08+00	133.25	0.00	254	1	6,953	31	6,922
08+50	245.68	0.00	351	0	7,304	31	7,273
09+00	131.13	0.17	349	0	7,653	32	7,622
09+50	133.75	0.00	245	0	7,898	32	7,867
10+00	149.37	0.00	262	0	8,161	32	8,129
10+50	138.36	0.00	266	0	8,427	32	8,395
11+00	139.69	0.03	257	0	8,684	32	8,653
11+50	250.83	0.00	362	0	9,046	32	9,014
12+00	149.41	0.00	371	0	9,417	32	9,385
12+50	159.61	0.00	286	0	9,703	32	9,671
12+59.15	167.77	0.00	55	0	9,758	32	9,726
13+00	158.34	0.00	247	0	10,005	32	9,973
13+15.66	172.78	0.00	96	0	10,101	32	10,069
13+50	152.26	0.00	207	0	10,308	32	10,276
14+00	149.60	0.00	279	0	10,587	32	10,555
14+50	180.55	0.00	306	0	10,893	32	10,861
15+00	176.10	4.15	330	4	11,223	38	11,185
15+33.15	148.87	0.23	200	3	11,423	42	11,381
15+50	137.56	0.24	89	0	11,512	42	11,470
15+75	142.17	0.00	130	0	11,641	42	11,599
16+00	141.12	0.04	131	0	11,773	42	11,730
16+50	139.73	0.00	260	0	12,033	42	11,990
17+00	130.89	0.00	251	0	12,283	42	12,241

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - STH 22 (CONTINUED)

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
17+43.01	137.63	0.00	214	0	12,497	42	12,455
17+50	122.76	0.00	34	0	12,531	42	12,489
18+00	182.77	0.01	283	0	12,814	42	12,772
18+28.31	128.90	0.24	163	0	12,977	42	12,935
18+50	122.14	0.21	101	0	13,078	43	13,035
19+00	121.03	0.16	225	0	13,303	43	13,260
19+50	121.39	0.18	224	0	13,528	44	13,484
20+00	129.72	0.00	233	0	13,760	44	13,716
20+50	158.33	1.04	267	1	14,027	45	13,981
21+00	154.37	0.10	290	1	14,316	47	14,269
21+50	124.09	0.19	258	0	14,574	47	14,527
22+00	135.02	0.19	240	0	14,814	48	14,766
22+50	98.16	1.56	216	2	15,030	50	14,980
22+95.44	81.55	1.89	151	3	15,181	55	15,127
23+00	79.00	6.06	14	1	15,195	56	15,139
23+50	116.69	1.05	181	7	15,376	65	15,310
23+63.76	126.04	0.85	62	0	15,438	66	15,372
24+00	127.36	0.54	170	1	15,608	68	15,540
24+50	131.33	0.76	240	1	15,847	69	15,778
25+00	135.34	0.67	247	1	16,094	71	16,023
25+50	127.47	0.68	243	1	16,338	73	16,264
26+00	165.52	0.85	271	1	16,609	75	16,533
26+36.29	116.85	0.47	190	1	16,799	77	16,722
26+50	105.37	2.00	56	1	16,855	78	16,777
27+00	109.61	10.79	199	12	17,054	95	16,959
27+50	107.33	14.87	201	24	17,255	131	17,124
28+00	110.98	11.11	202	24	17,457	167	17,290
28+14.45	116.55	10.57	61	6	17,518	176	17,342
28+25	115.27	10.75	45	4	17,563	182	17,381
28+50	113.11	10.87	106	10	17,669	197	17,472
28+93.26	123.92	10.02	190	17	17,859	222	17,637
29+00	118.75	9.93	30	2	17,889	226	17,663
29+50	126.06	6.56	227	15	18,116	249	17,867
30+00	136.44	4.62	243	10	18,359	264	18,095
30+37.14	136.80	0.00	188	3	18,547	269	18,278
30+50	129.63	4.30	63	1	18,610	271	18,340
31+00	198.66	0.00	304	4	18,914	277	18,638
31+17.7	155.51	0.00	116	0	19,030	277	18,754
31+50	140.01	0.00	177	0	19,207	277	18,930
31+55.77	145.14	0.00	30	0	19,238	277	18,961

EARTHWORK - STH 22 (CONTINUED)

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
32+00	225.41	0.00	304	0	19,541	277	19,264
32+50	136.92	0.00	335	0	19,877	277	19,600
32+75	137.07	0.09	127	0	20,003	277	19,727
33+00	124.89	0.27	121	0	20,125	277	19,848
33+50	113.36	0.73	221	1	20,345	278	20,067
34+00	76.21	21.01	176	20	20,521	309	20,212
34+50	84.43	20.59	149	39	20,670	366	20,303
35+00	174.39	10.51	240	29	20,909	410	20,500
35+50	123.80	5.31	276	15	21,185	431	20,754
36+00	133.98	5.14	239	10	21,424	446	20,978
36+50	143.07	0.00	265	0	21,689	446	21,243
37+00	129.24	0.09	252	0	21,941	446	21,495
37+50	126.37	0.11	237	0	22,178	446	21,731
38+00	263.87	0.00	361	0	22,539	447	22,093
38+50	124.57	0.15	360	0	22,899	447	22,452
39+00	114.95	0.60	222	1	23,121	448	22,673
39+50	112.11	0.63	210	1	23,331	450	22,881
40+00	106.88	2.44	203	3	23,534	454	23,080
40+50	101.16	2.77	193	5	23,726	461	23,265
40+67.41	105.37	2.74	67	2	23,793	464	23,329
41+00	105.46	0.68	127	2	23,920	467	23,453
41+36.34	167.76	0.00	184	0	24,104	467	23,636
41+50	162.65	3.02	84	1	24,187	469	23,719
42+00	106.93	3.65	250	6	24,437	478	23,959
42+50	106.65	5.98	198	9	24,635	491	24,144
43+00	108.29	5.11	199	10	24,834	507	24,327
43+50	105.09	3.51	198	8	25,031	519	24,513
44+00	111.18	2.83	200	6	25,232	527	24,704
44+50	114.22	39.73	209	39	25,440	587	24,854
44+83.9	123.89	72.35	149	70	25,590	692	24,898
45+00	125.81	60.82	74	40	25,664	752	24,913
45+50	137.48	56.69	244	109	25,908	915	24,993
45+62.5	141.65	57.72	65	26	25,973	955	25,018
46+00	132.61	102.39	190	111	26,163	1,121	25,042
46+50	132.00	58.85	245	149	26,408	1,345	25,063
46+69.76	146.39	20.34	102	29	26,510	1,389	25,121
47+00	135.00	5.54	158	14	26,668	1,410	25,257
47+50	129.98	0.77	245	6	26,913	1,419	25,494
48+00	184.99	0.26	292	1	27,205	1,421	25,784
48+50	199.74	0.00	356	0	27,561	1,421	26,140

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - STH 22 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
49+00	107.18	1.64	284	2	27,845	1,423	26,422
49+25	93.05	9.78	93	5	27,938	1,431	26,507
			27,938	954			

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

9

9

EARTHWORK - CHERRY AVE

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	66.2	0.0					
10+75	66.7	0.0	62	0	62	0	62
	TOTALS		62	0			

EARTHWORK - MAIN STREET (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+45	107.7	0.9					
9+75	140.7	0.3	138	1	138	1	137
9+90	110.7	0.3	70	0	208	1	207
10+00	76.9	0.7	35	0	243	2	241
	TOTALS		243	1			

EARTHWORK - CENTRAL AVENUE (EAST)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	54.6	0.0					
10+65	56.7	0.0	31	0	31	0	31
	TOTALS		31	0			

EARTHWORK - FRANKLIN STREET (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	54.6	0.0					
10+55	56.7	0.0	10	0	10	0	10
	TOTALS		10	0			

EARTHWORK - CENTRAL AVENUE (WEST)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+35	68.5	0.0					
9+50	57.3	4.7	35	1	35	2	33
	TOTALS		35	1			

EARTHWORK - FRANKLIN STREET (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+15	54.9	0.7					
9+25	66.6	0.9	23	0.3	23	0	22
9+50	97.5	0.0	76	0.4	98	1	97
	TOTALS		98	1			

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - WASHINGTON STREET (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	65.5	0.0					
10+55	59.1	0.0	12	0	12	0	12
	TOTALS		12	0			

EARTHWORK - WASHINGTON STREET (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+25	57.4	0.0					
9+50	97.9	0.0	72	0	72	0	72
	TOTALS		72	0			

EARTHWORK - ADAMS STREET (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	113.9	0.0					
10+60	67.5	0.0	34	0	34	0	34
	TOTALS		34	0			

EARTHWORK - ADAMS STREET (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+20	58.8	0.0					
9+50	136.1	0.0	108	0	108	0	108
	TOTALS		108	0			

EARTHWORK - JEFFERSON ROAD

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	58.0	0.0					
10+55.12	56.4	0.0	11	0.0	11	0	11
10+70	43.7	0.0	28	0.0	38	0	38
	TOTALS		38	0			

EARTHWORK - CHESTNUT AVENUE

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
7+30	47.6	0.0					
7+50	89.6	0.0	51	0	51	0	51
8+00	84.0	0.0	161	0	212	0	212
8+49	85.4	0.0	154	0	365	0	365
	TOTALS		365	0			

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - COLUMBIA STREET

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
10+75	51.1	0.0					
10+85	49.2	0.0	19	0	19	0	19
TOTALS			19	0			

EARTHWORK - PAUL STREET

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
10+50	63.5	0.0					
11+00	48.1	0.0	103	0	103	0	103
TOTALS			103	0			

EARTHWORK - GROVE STREET

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
10+50	100.5	0.0					
10+75	27.3	0.0	59	0	59	0	59
TOTALS			59	0			

EARTHWORK - MONROE STREET

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
9+05	54.6	0.0					
9+35	59.5	0.0	63	0.0	63	0	63
9+50	71.4	0.0	36	0.0	100	0	100
TOTALS			100	0			

EARTHWORK - QUINCY STREET

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.50	Mass Ordinate Note 3
9+40	44.6	0.0					
9+50	53.9	0.0	18	0	18	0	18
TOTALS			18	0			

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - JACKSON STREET (EAST)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	108.8	0.0					
10+65	52.1	0.0	45	0	45	0	45
	TOTALS		45	0			

EARTHWORK - JACKSON STREET (WEST)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+40	56.3	0.0					
9+50	61.9	0.0	22	0	22	0	22
	TOTALS		22	0			

EARTHWORK - VAN BUREN STREET

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+40	52.4	0.0					
9+50	50.9	0.0	19	0	19	0	19
	TOTALS		19	0			

EARTHWORK - EAST HIGHLAND (EAST)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
10+50	130.0	0.0					
10+80	116.5	0.5	137	0	137	0	136
11+00	111.1	0.6	84	0	221	1	220
11+25	57.0	1.9	78	1	299	3	296
	TOTALS		299	2			

EARTHWORK - EAST HIGHLAND (WEST)

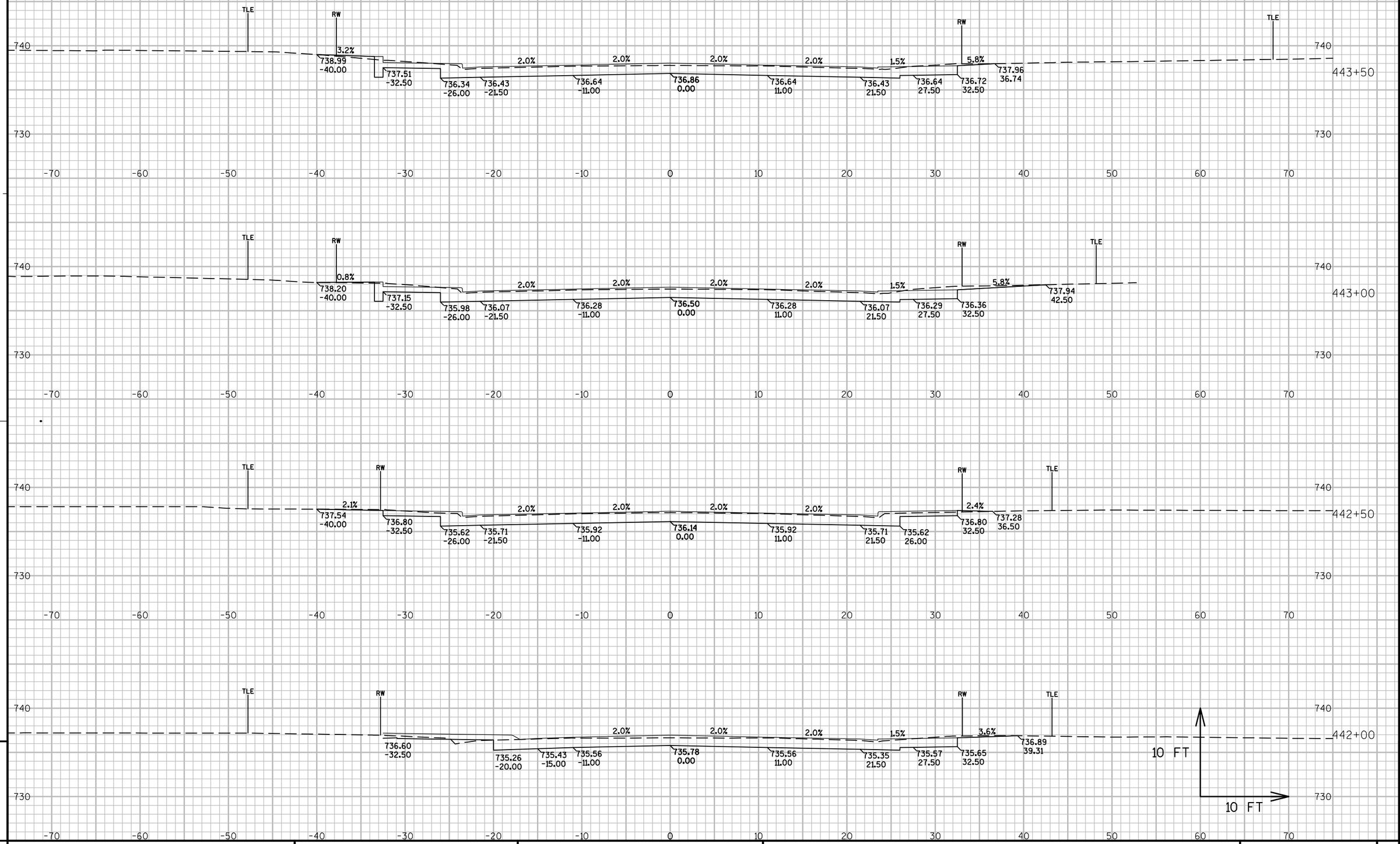
	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.50	Mass Ordinate Note 3
9+00	82.8	1.0					
9+50	175.8	0.9	239	2	239	3	237
	TOTALS		239	2			

Notes:	
1 - Cut	Cut includes existing asphalt and concrete pavement
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

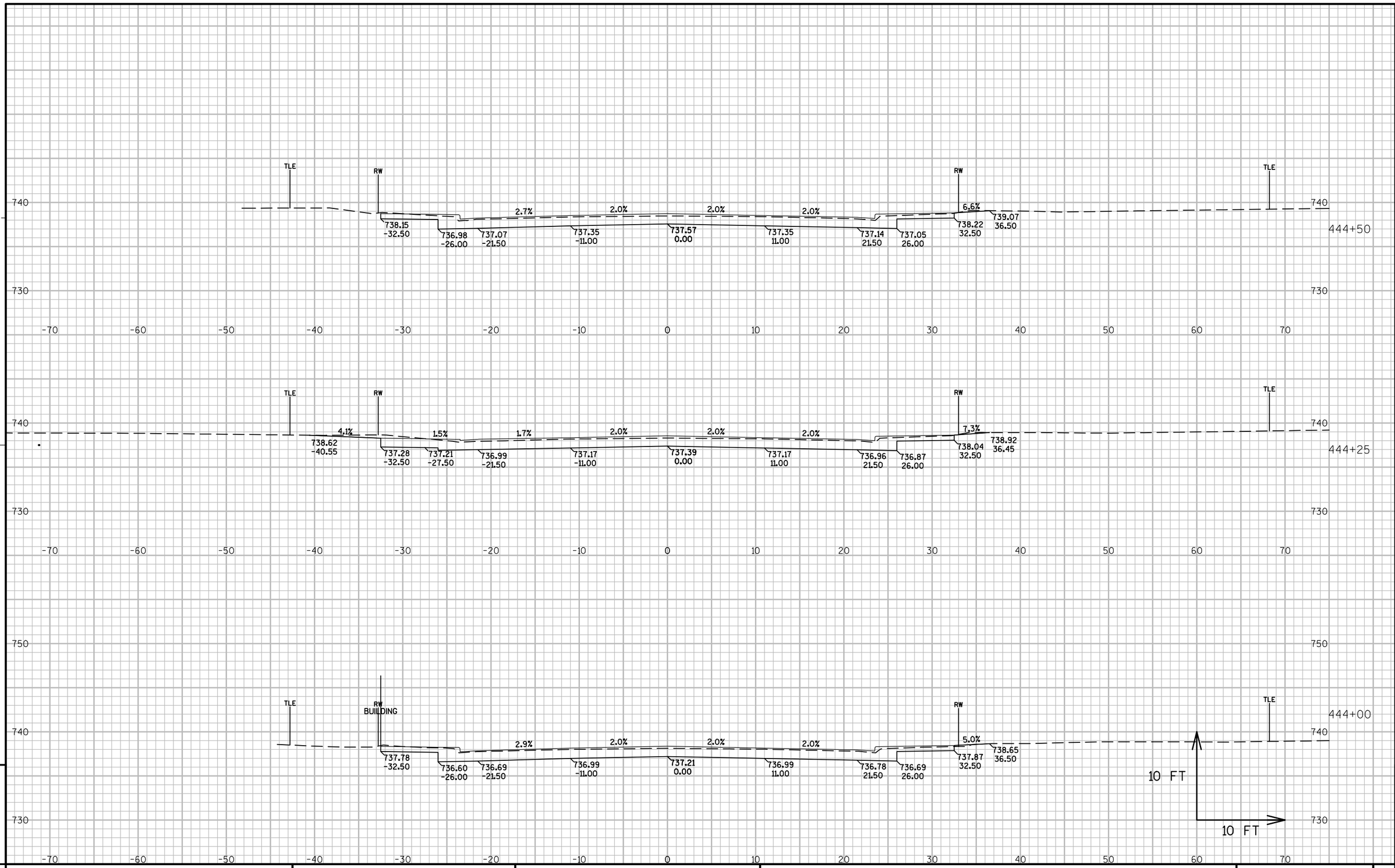
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 256	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:16 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 1 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

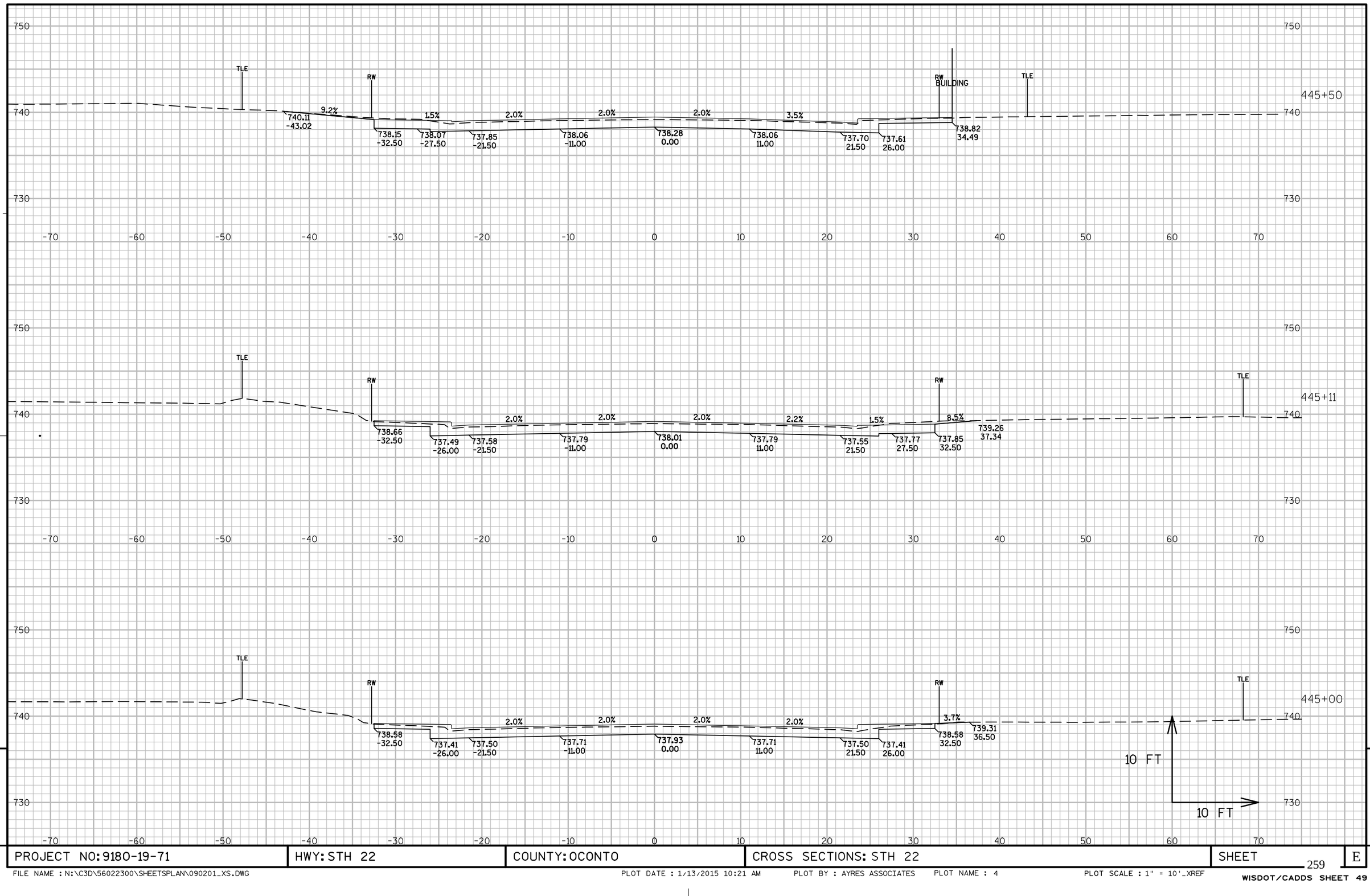


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 257	E



9 9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 258	E

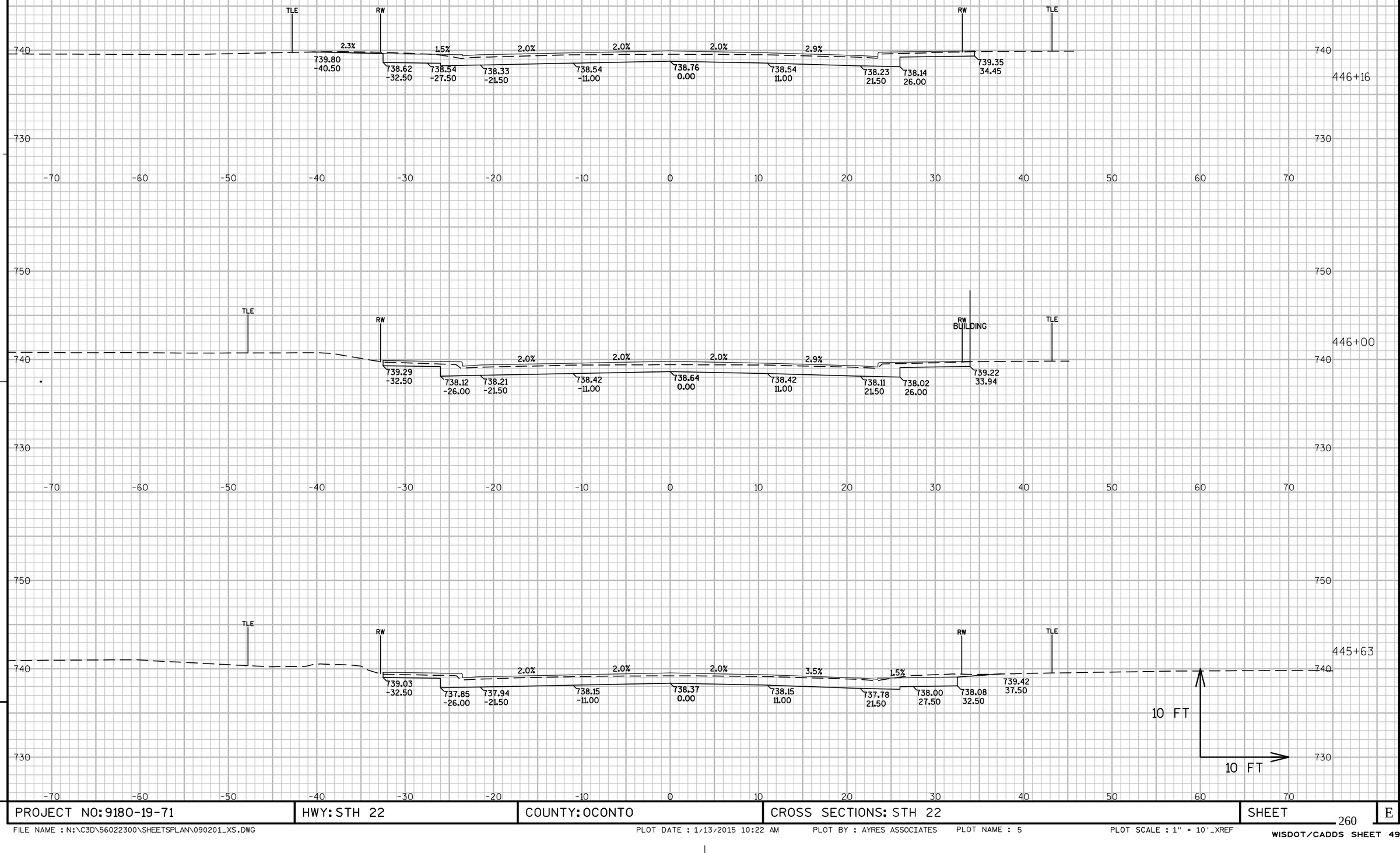


9

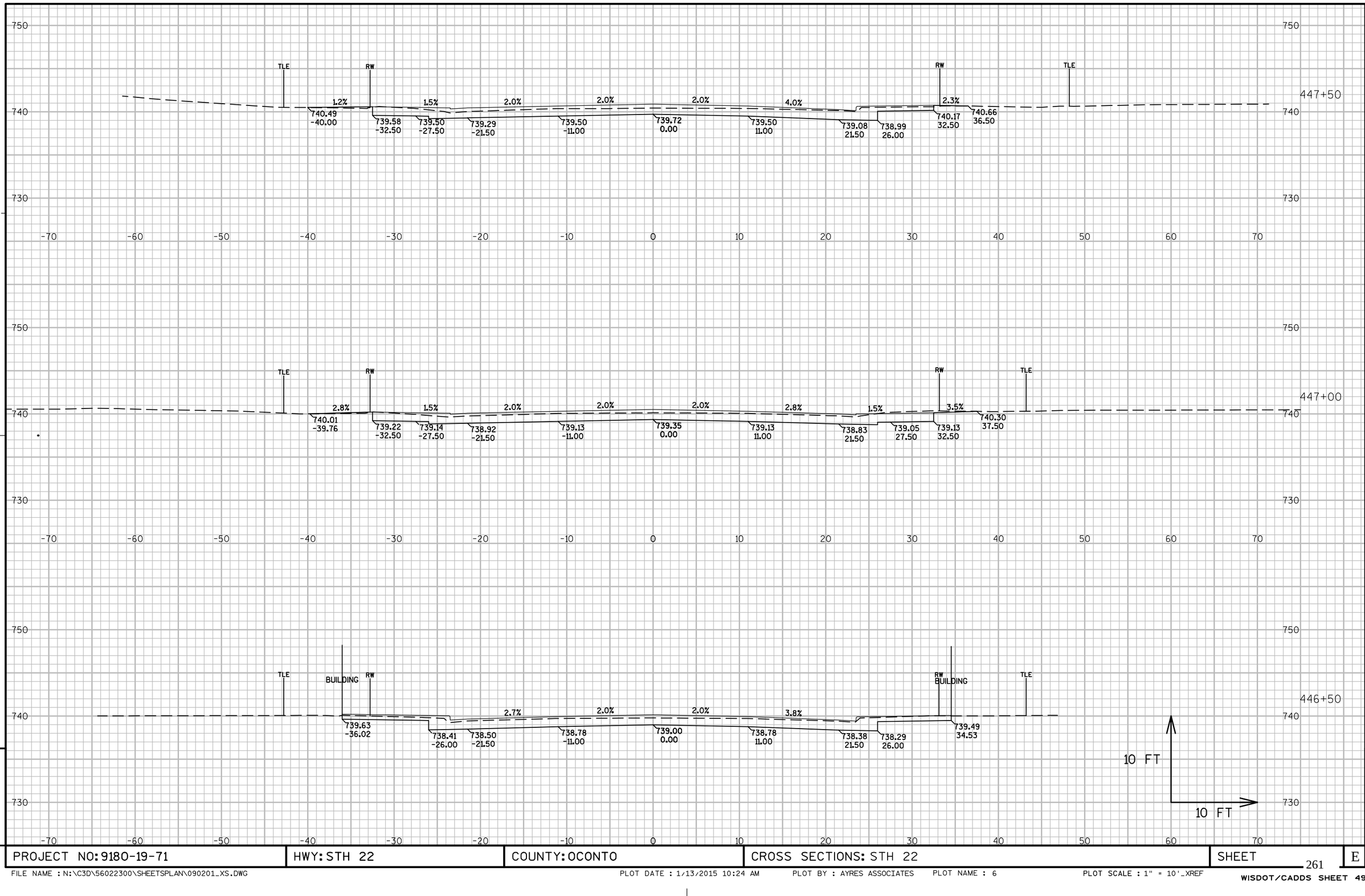
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

9

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:21 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 4 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E



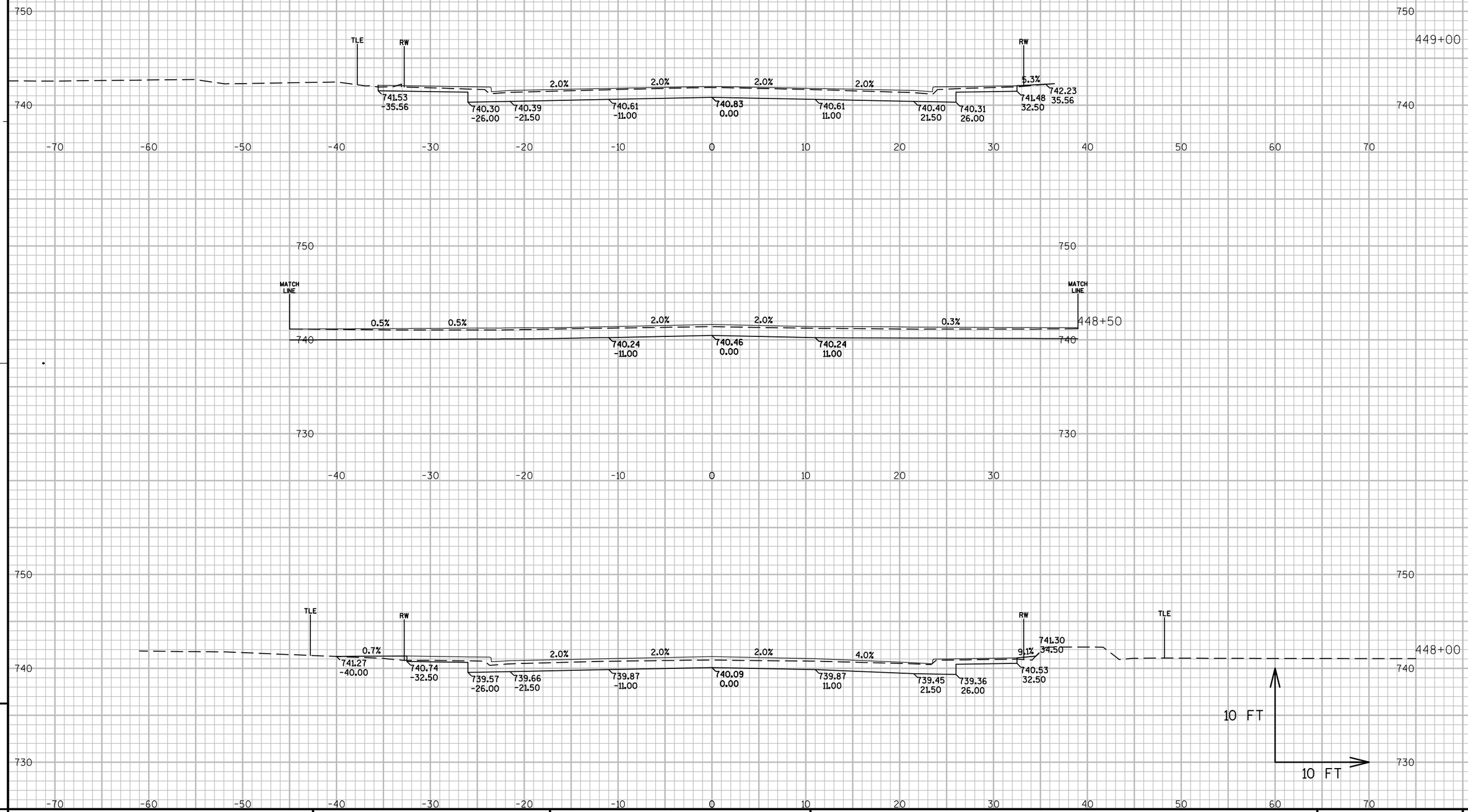
9

9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:24 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 6 PLOT SCALE : 1" = 10'_XREF

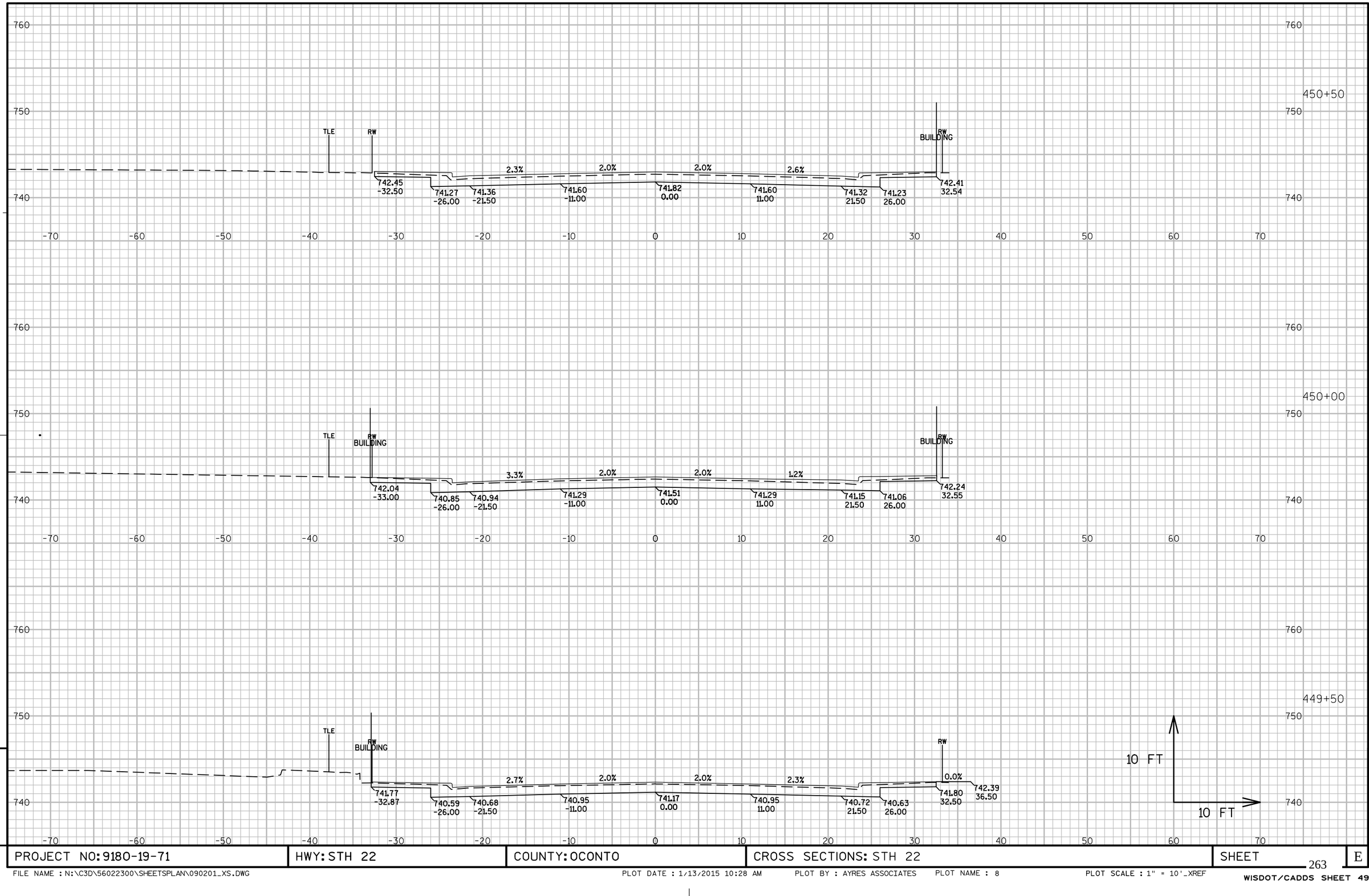
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 262	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:26 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 7 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 263	E

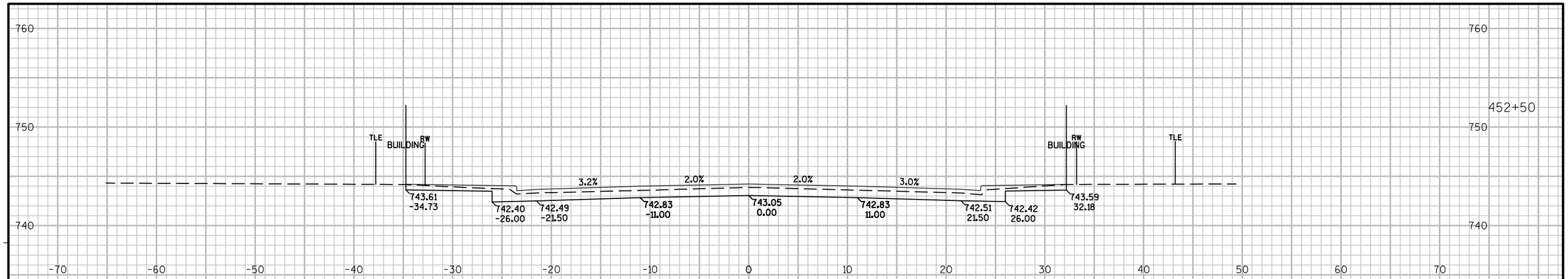
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:28 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 8 PLOT SCALE : 1" = 10'_XREF

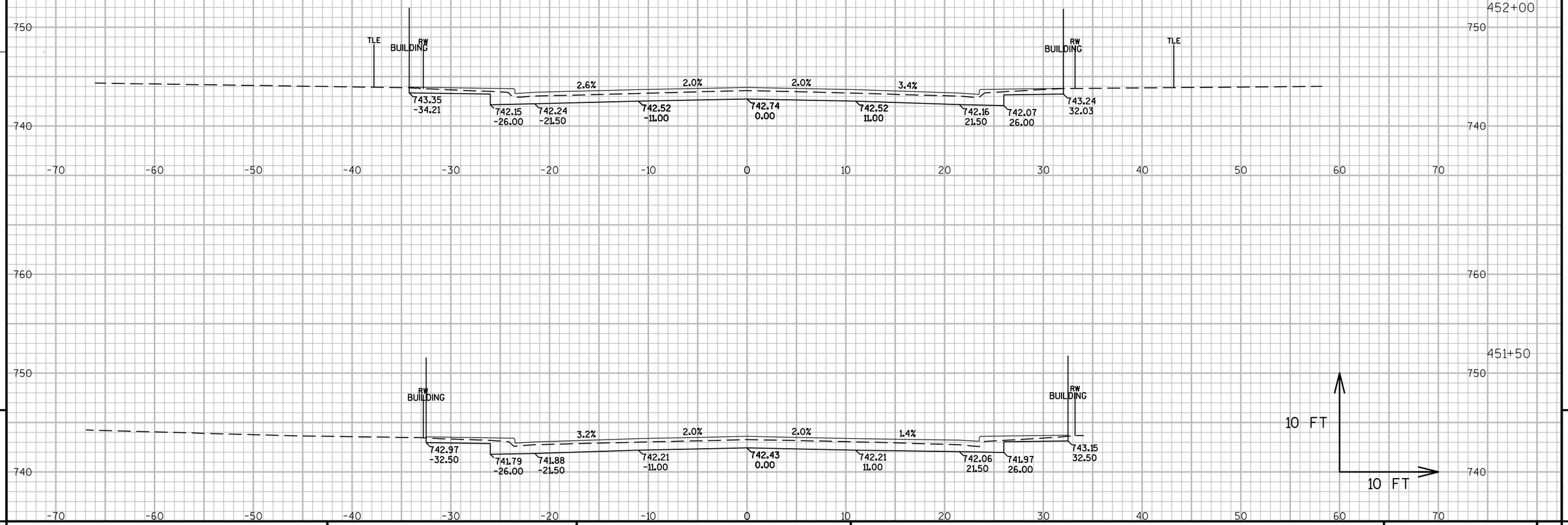
WISDOT/CADDS SHEET 49

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 264	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:29 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 9 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



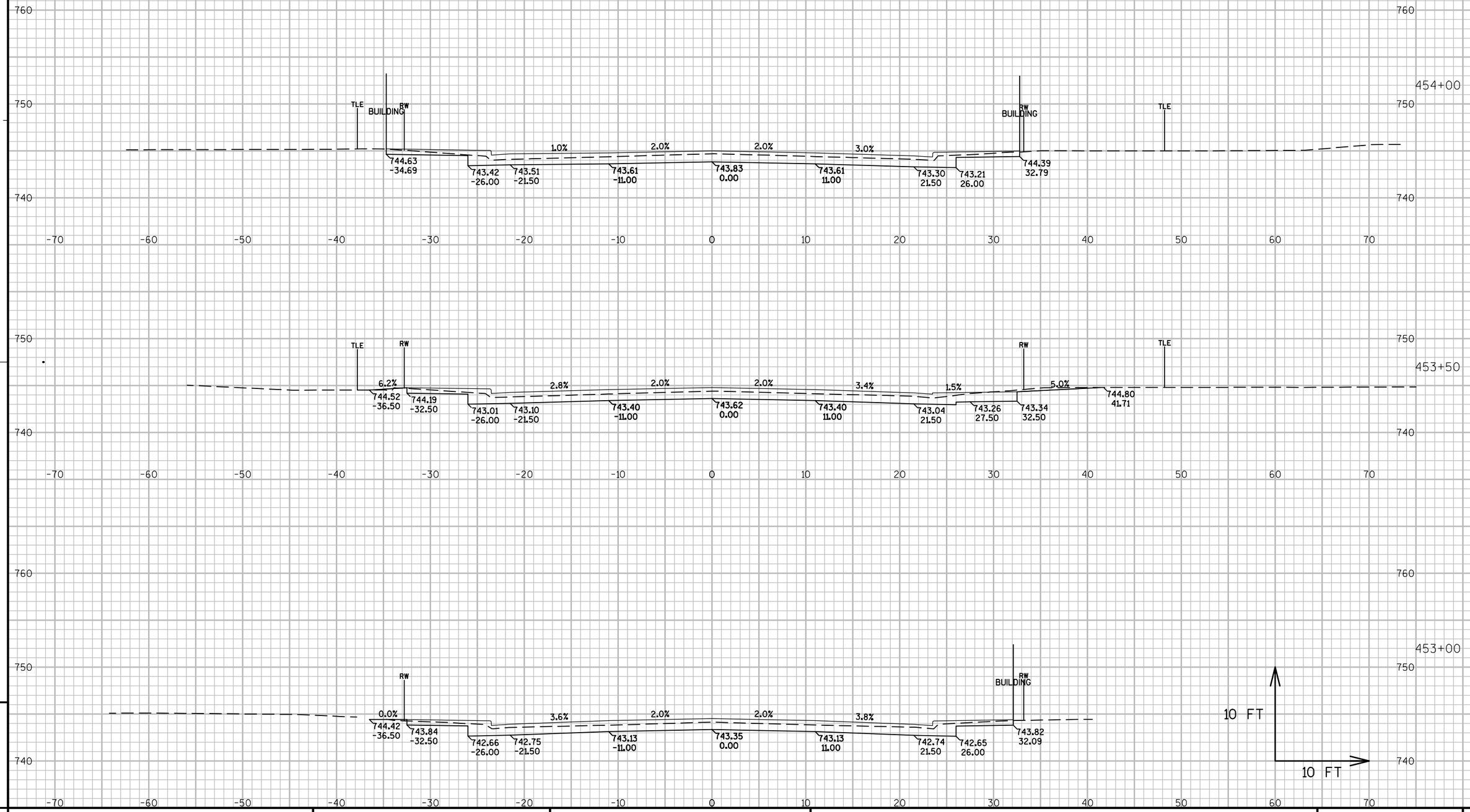


9

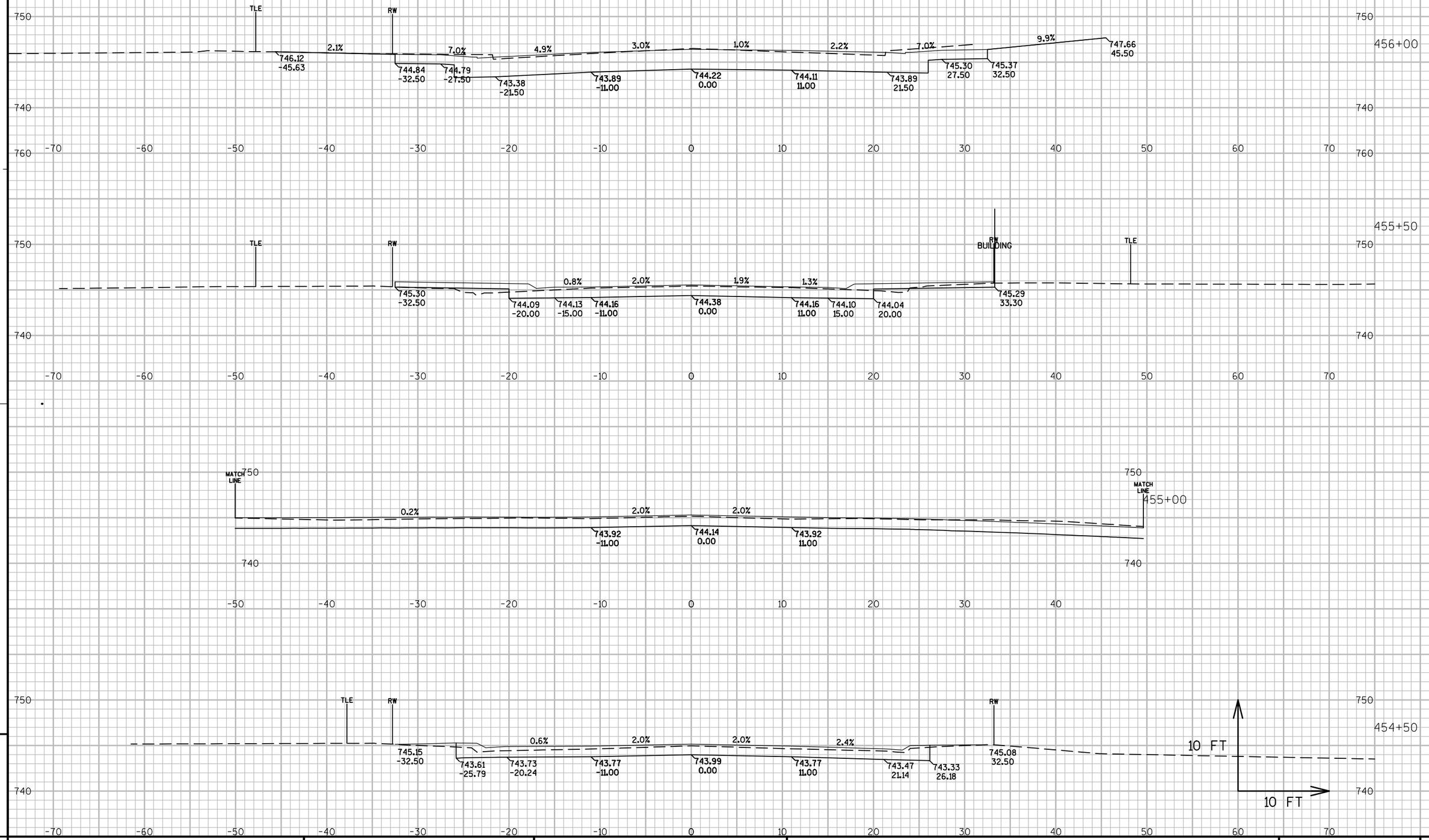
9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

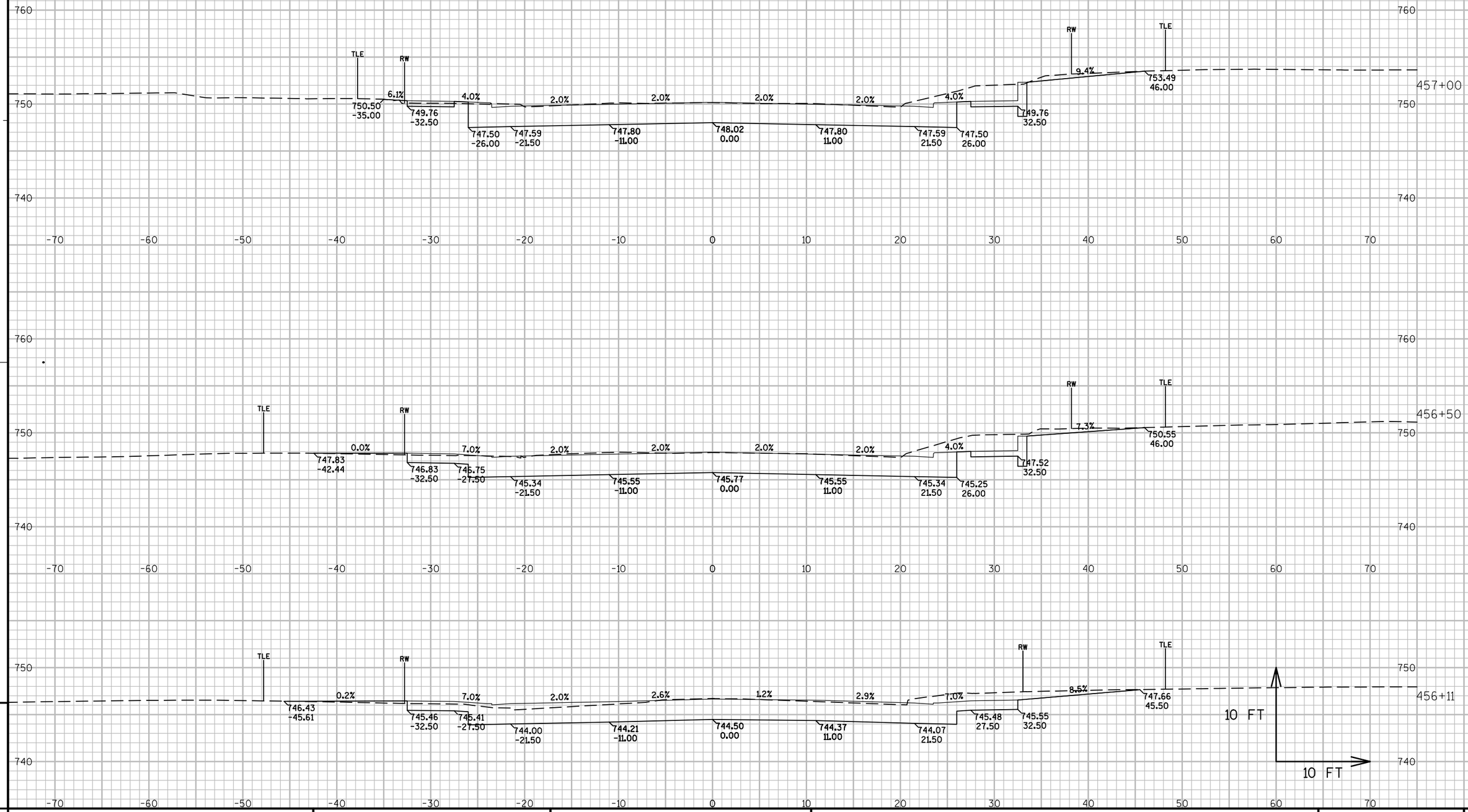
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 12:57 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 10 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



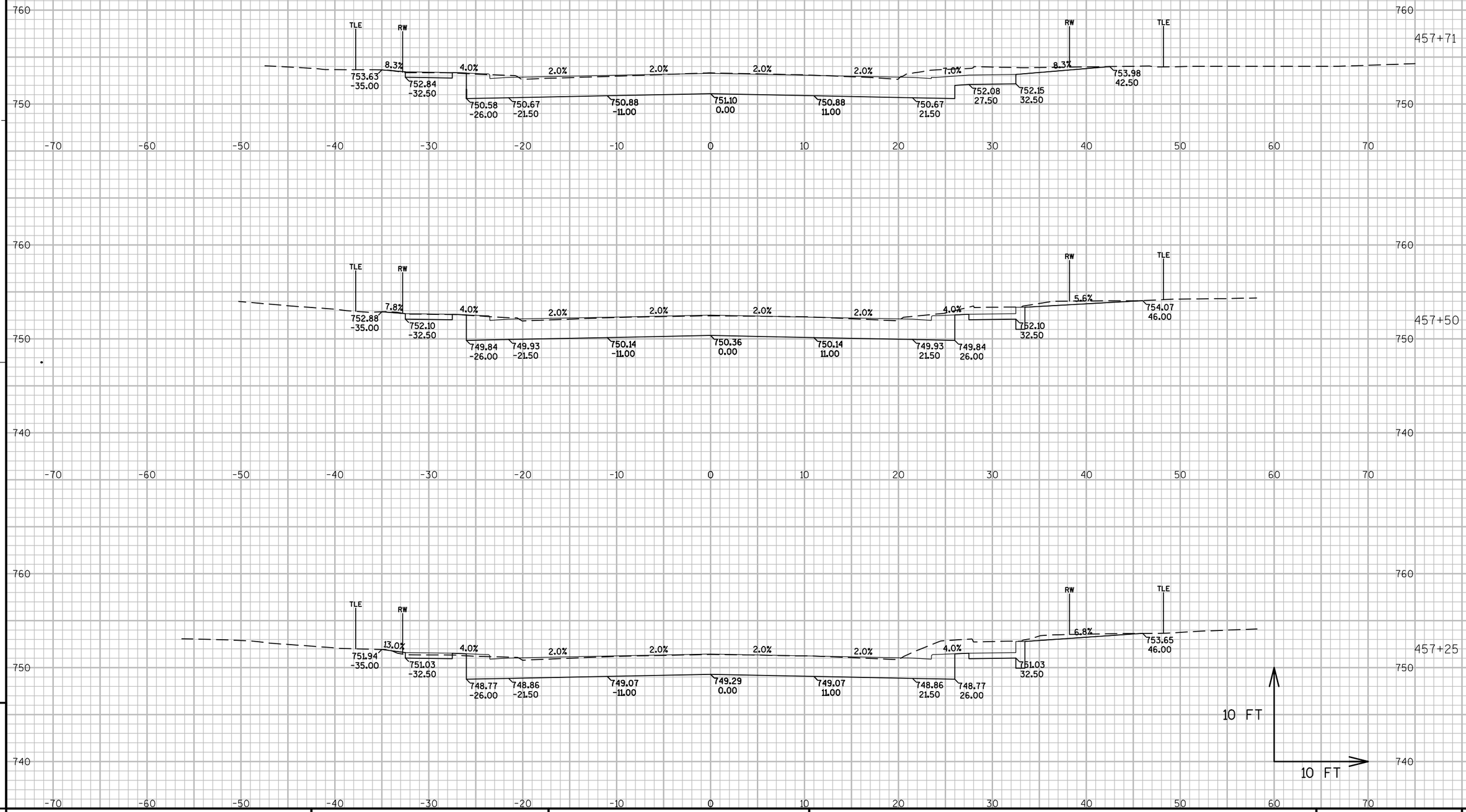
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 267	E

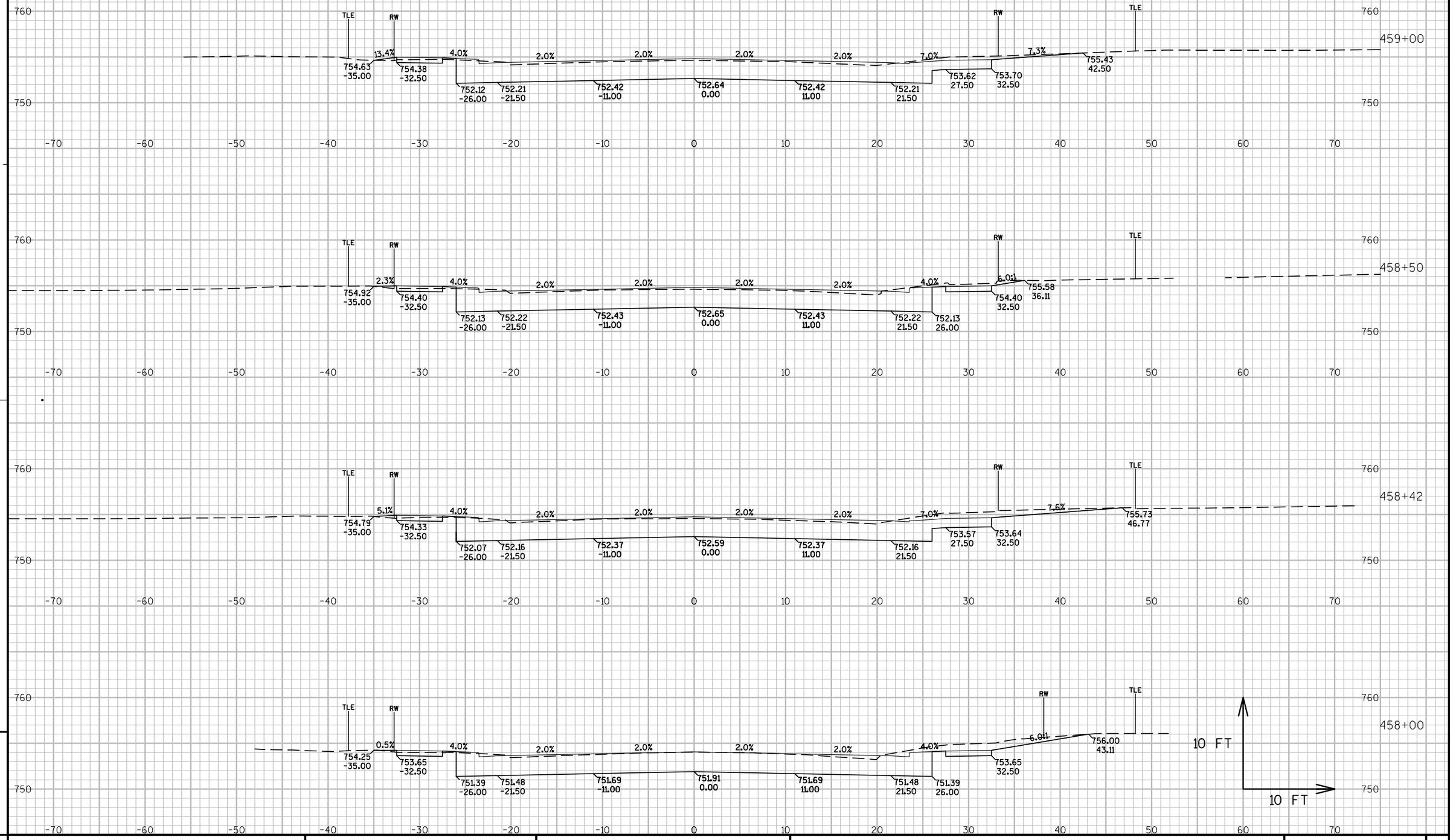


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

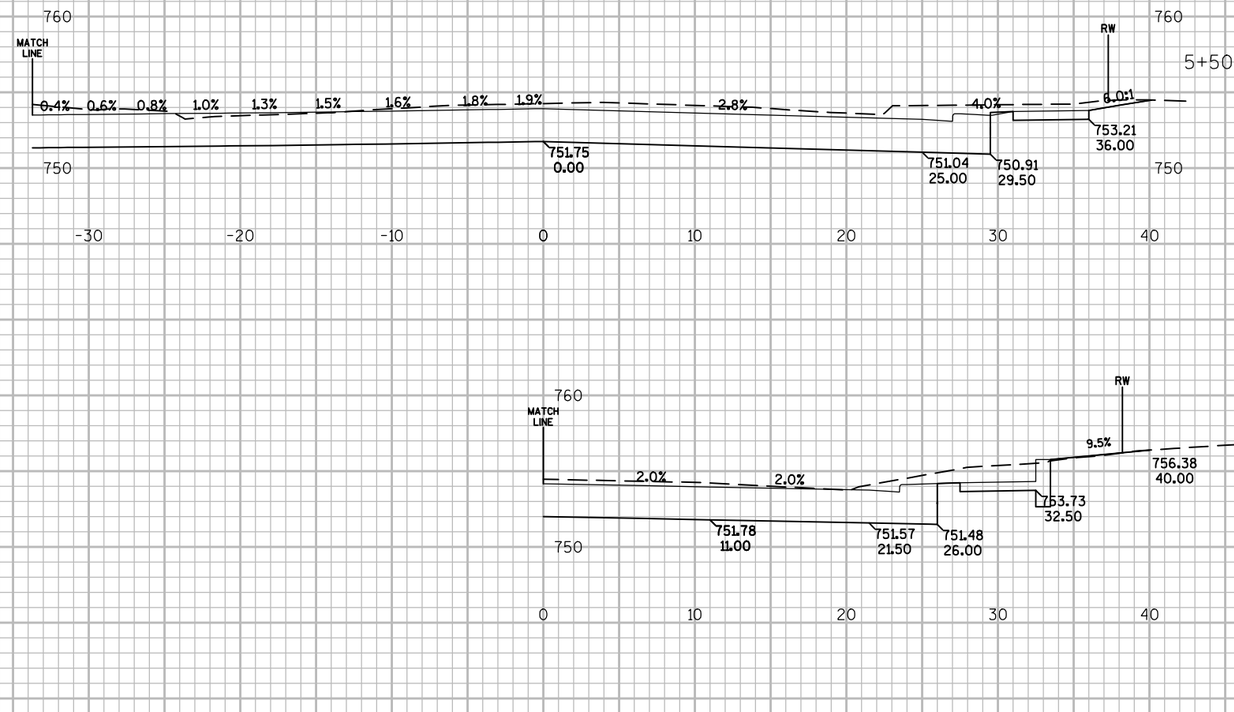


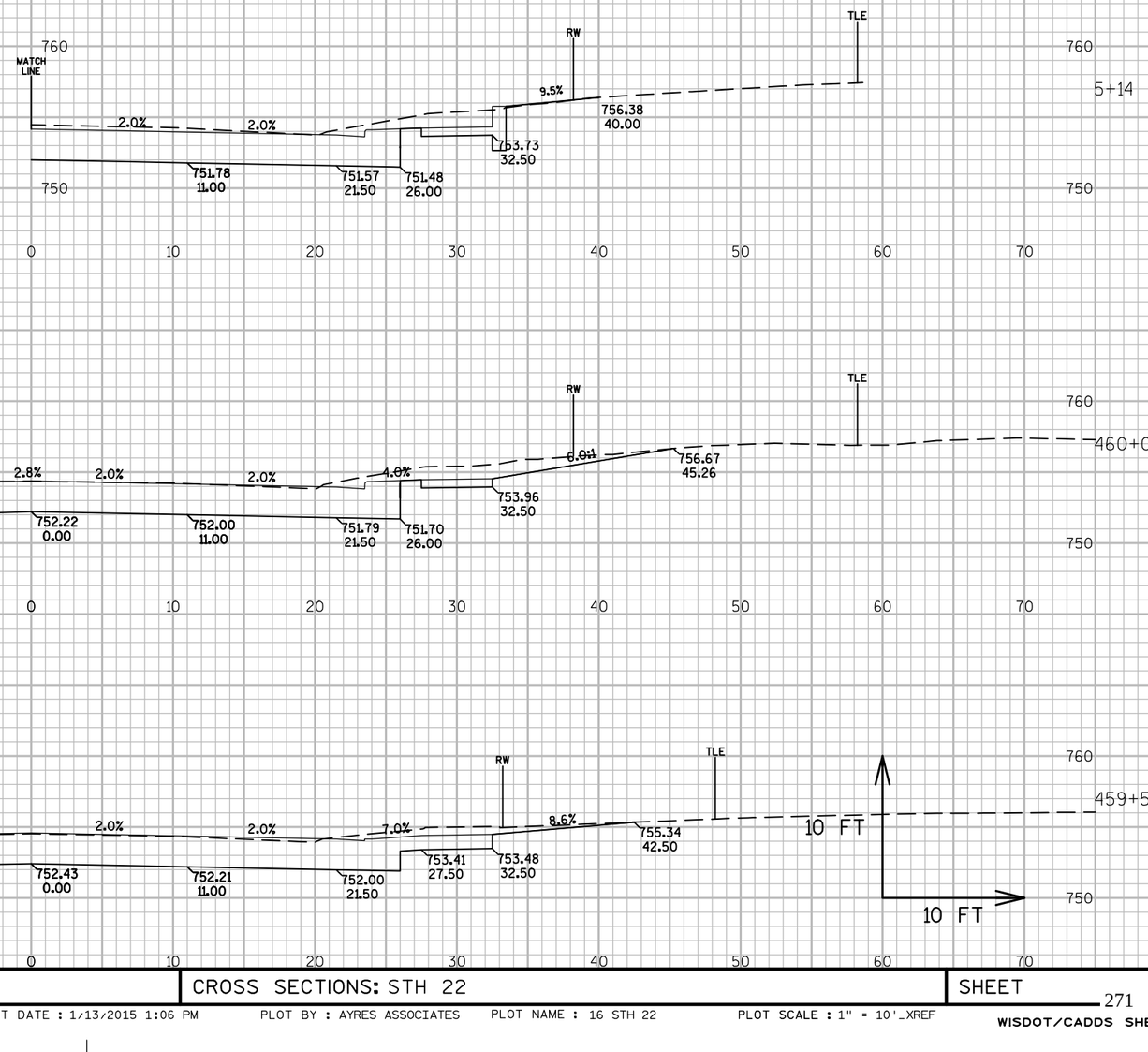
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 1:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 14 STH 22 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 270	E

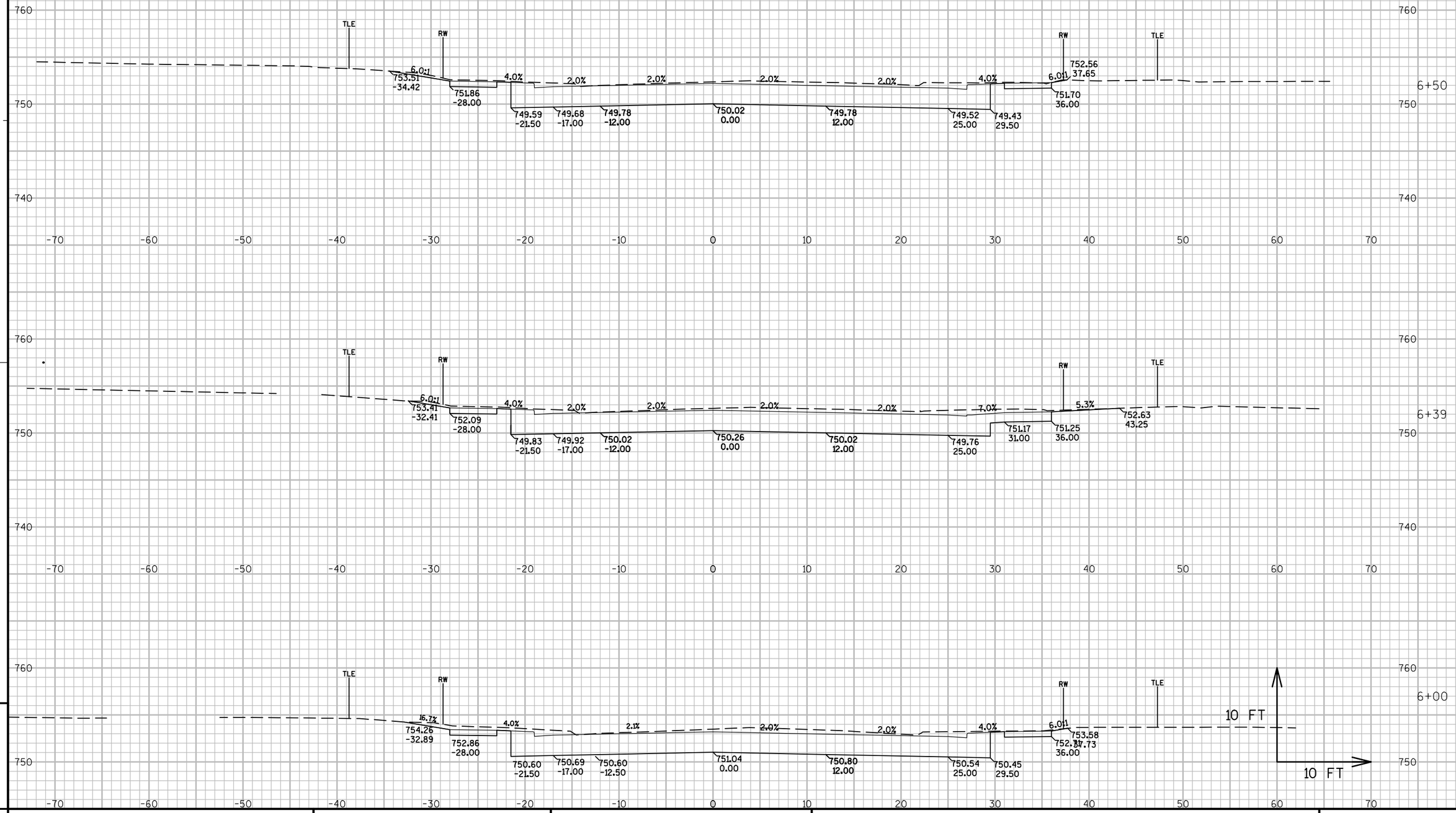




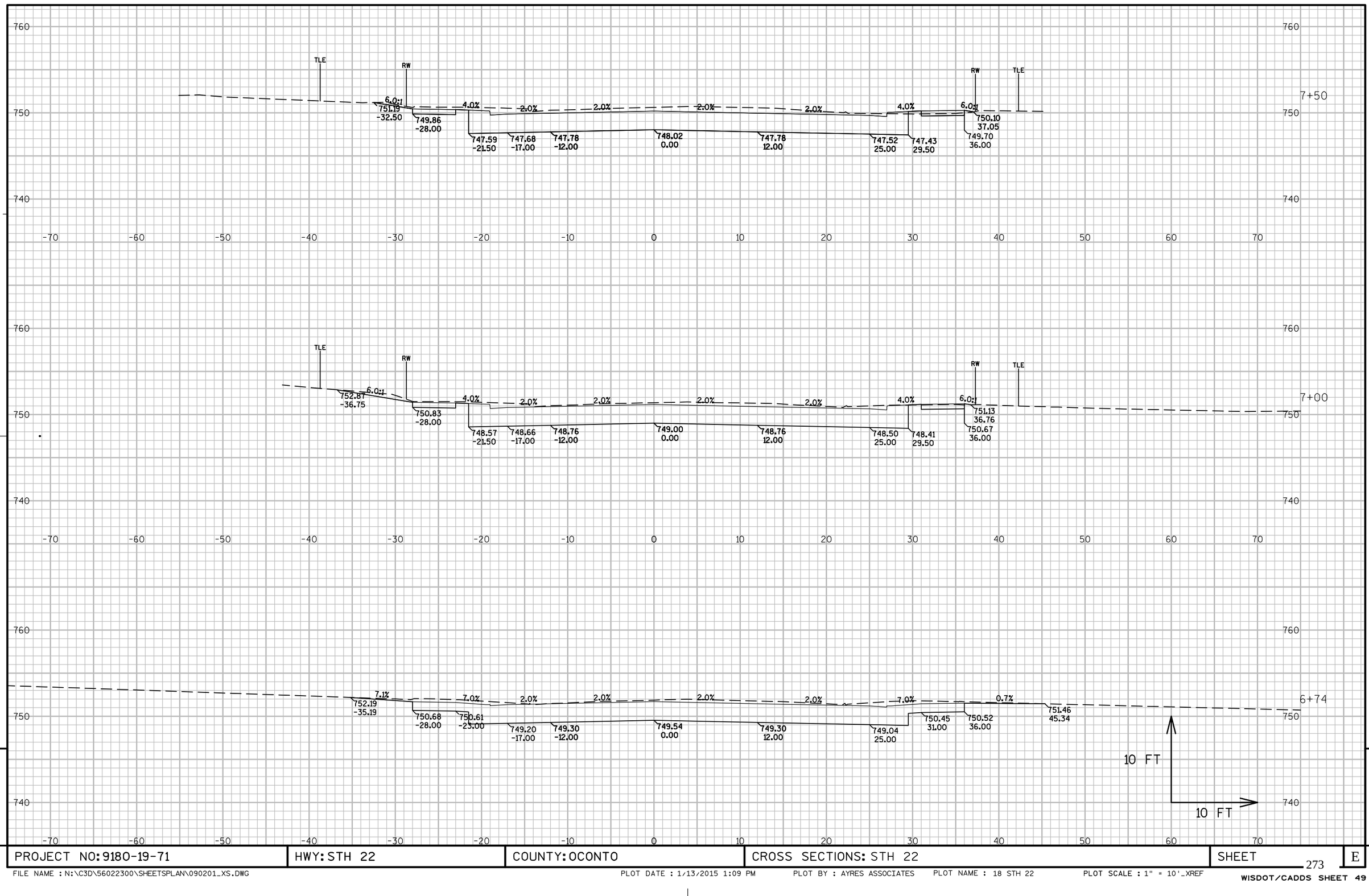
9

9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 271	E

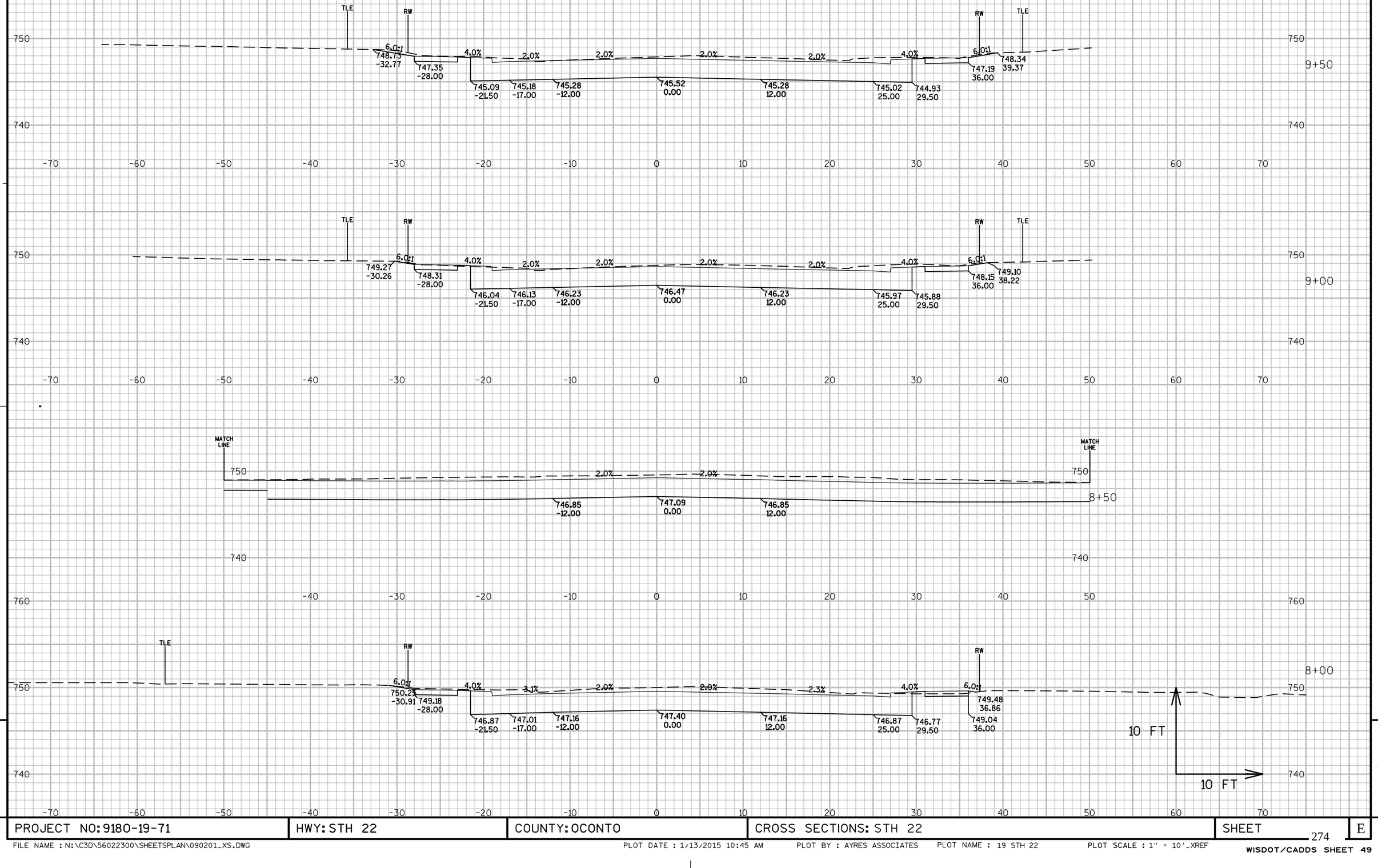


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 272	E

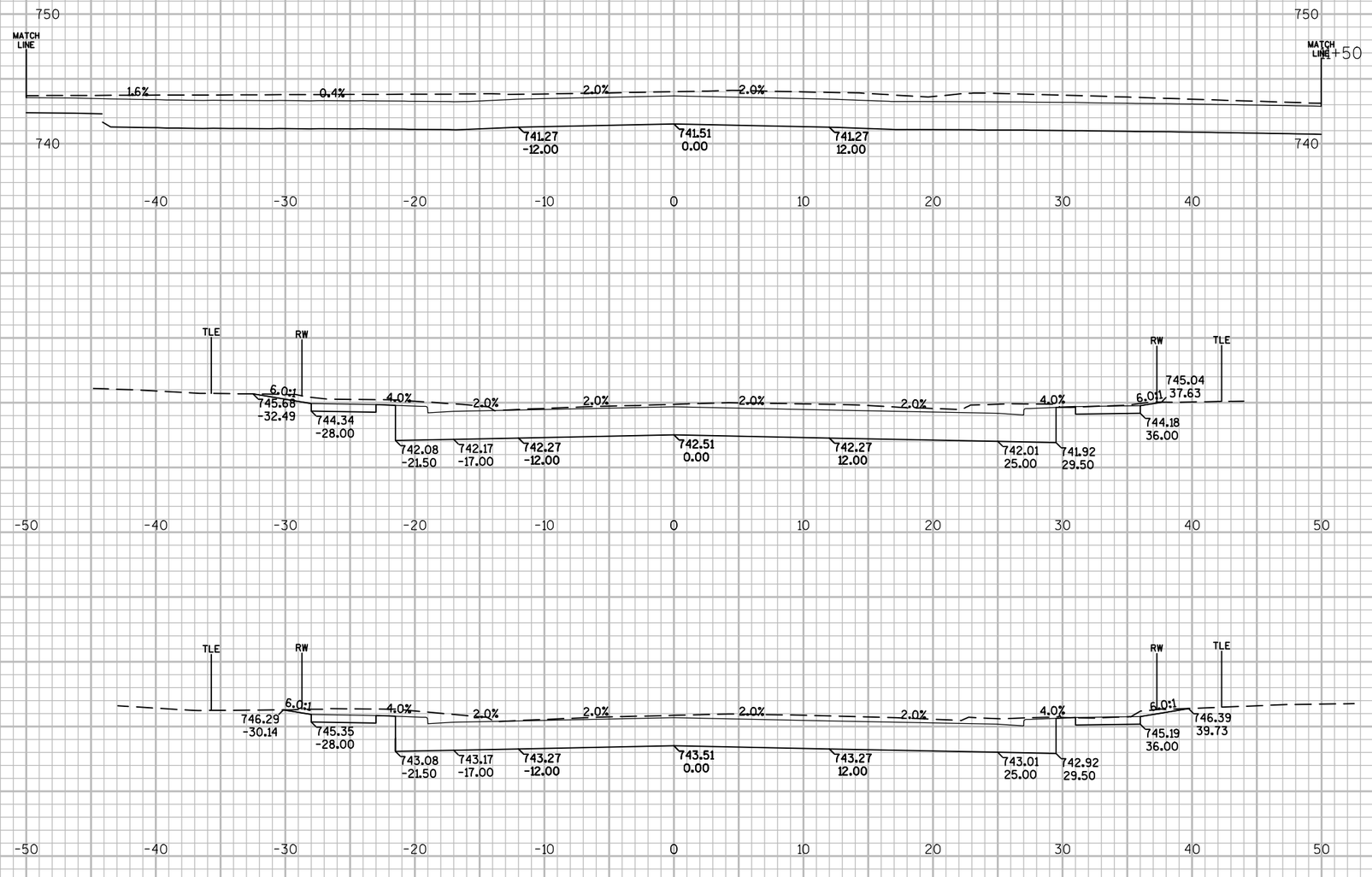


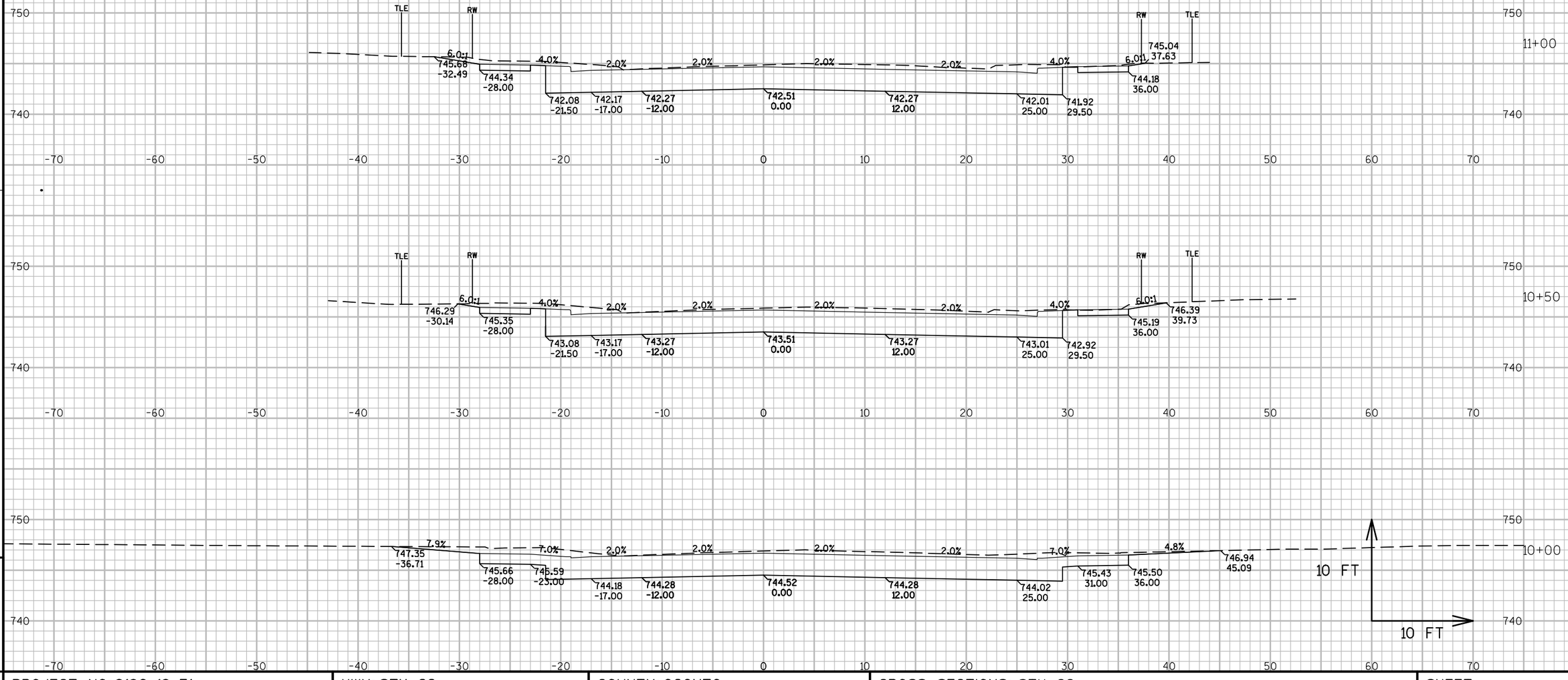
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 1:09 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 18 STH 22 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 274	E

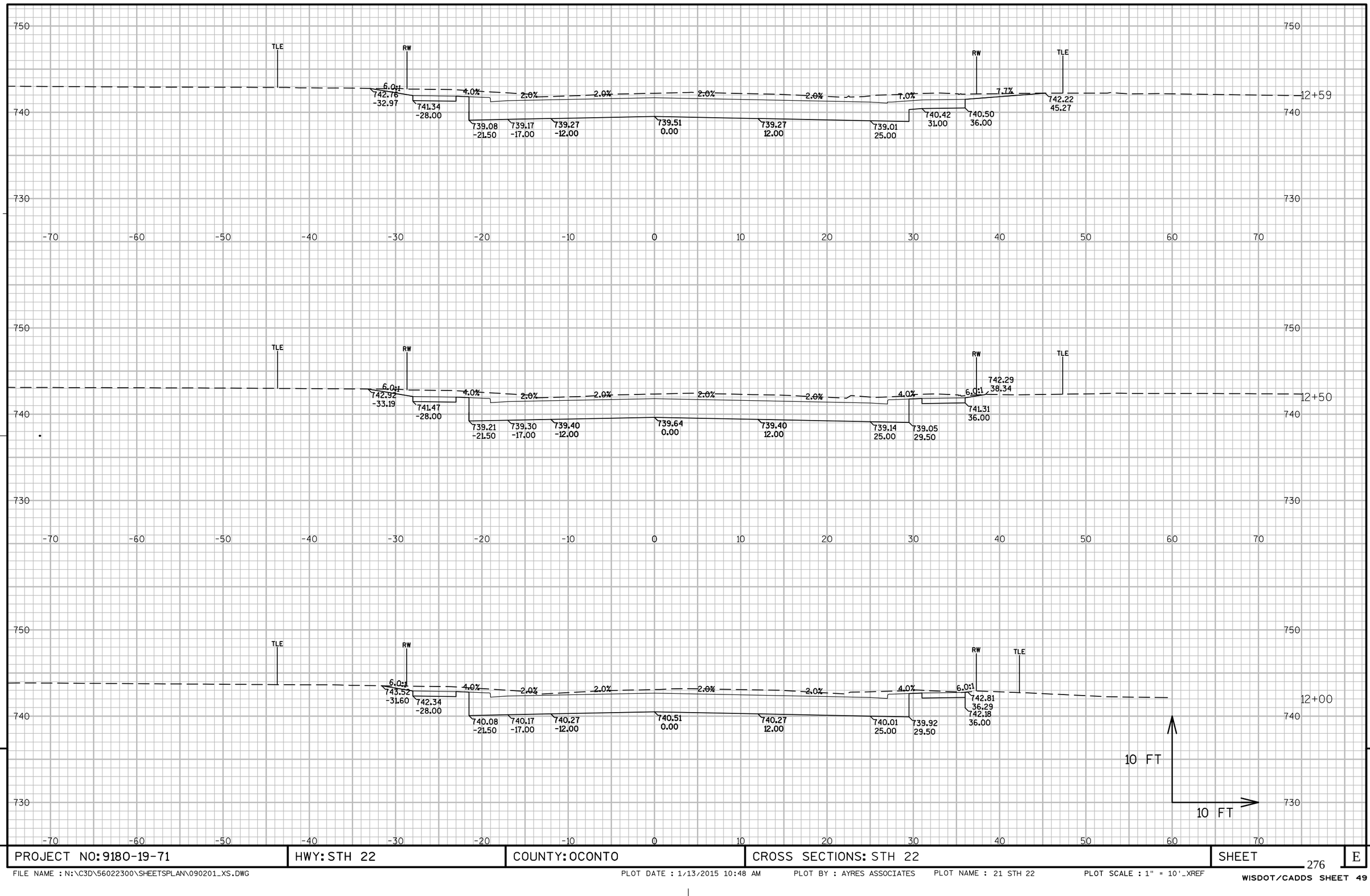




9

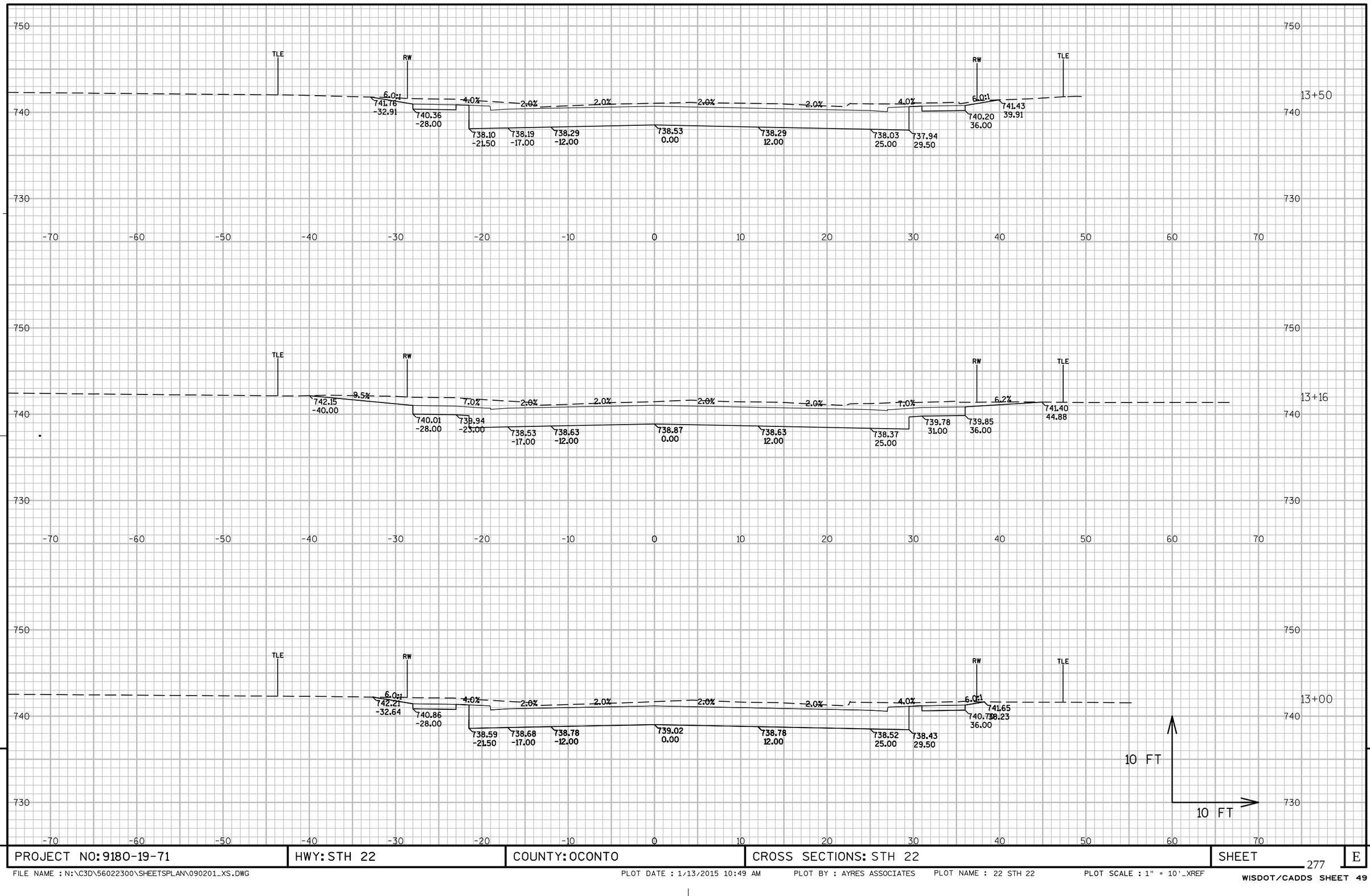
9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 275	E

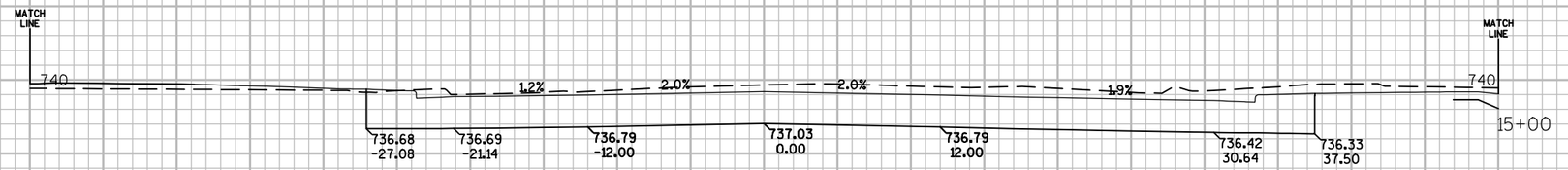


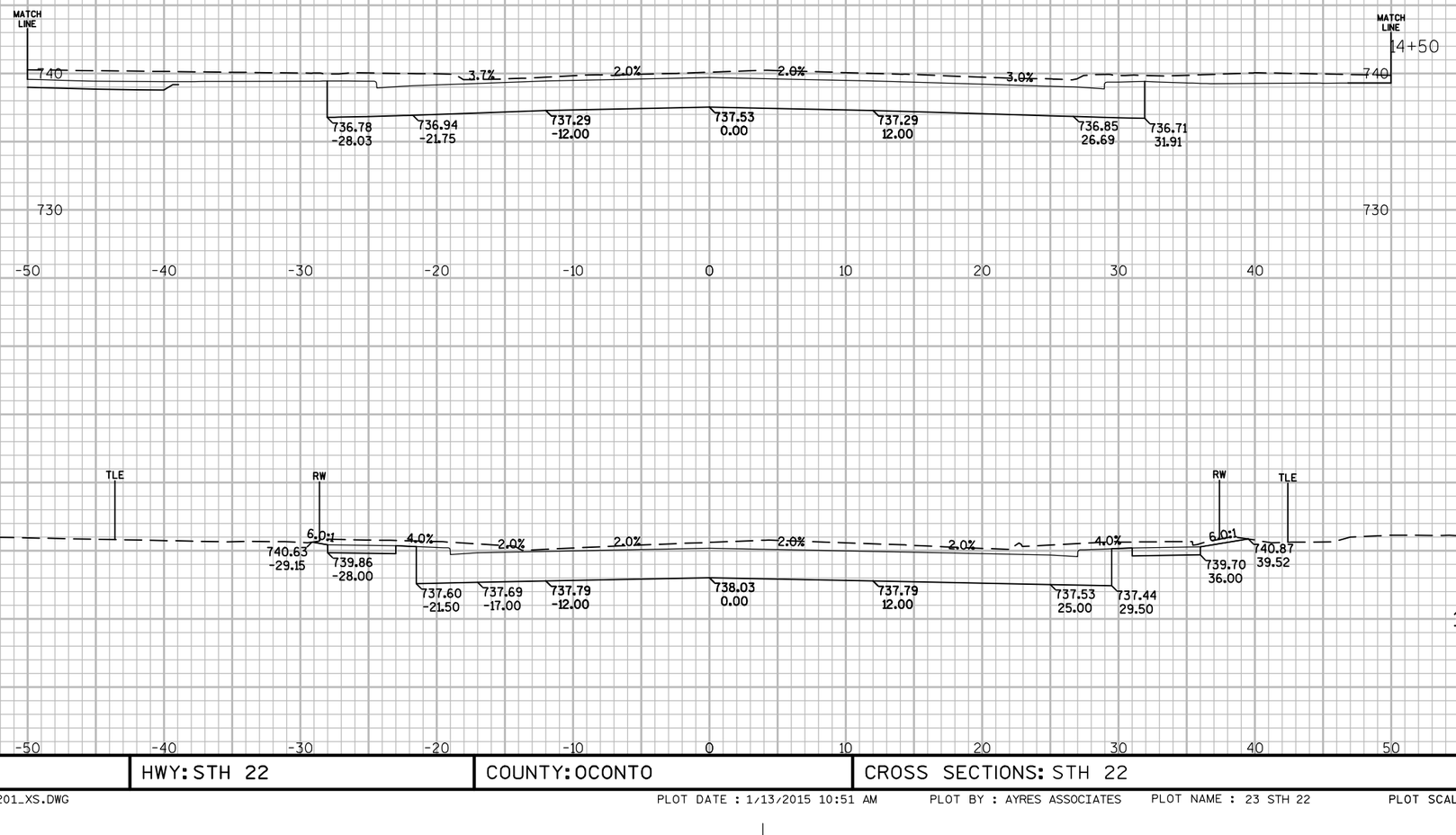
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:48 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 21 STH 22 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 277	E



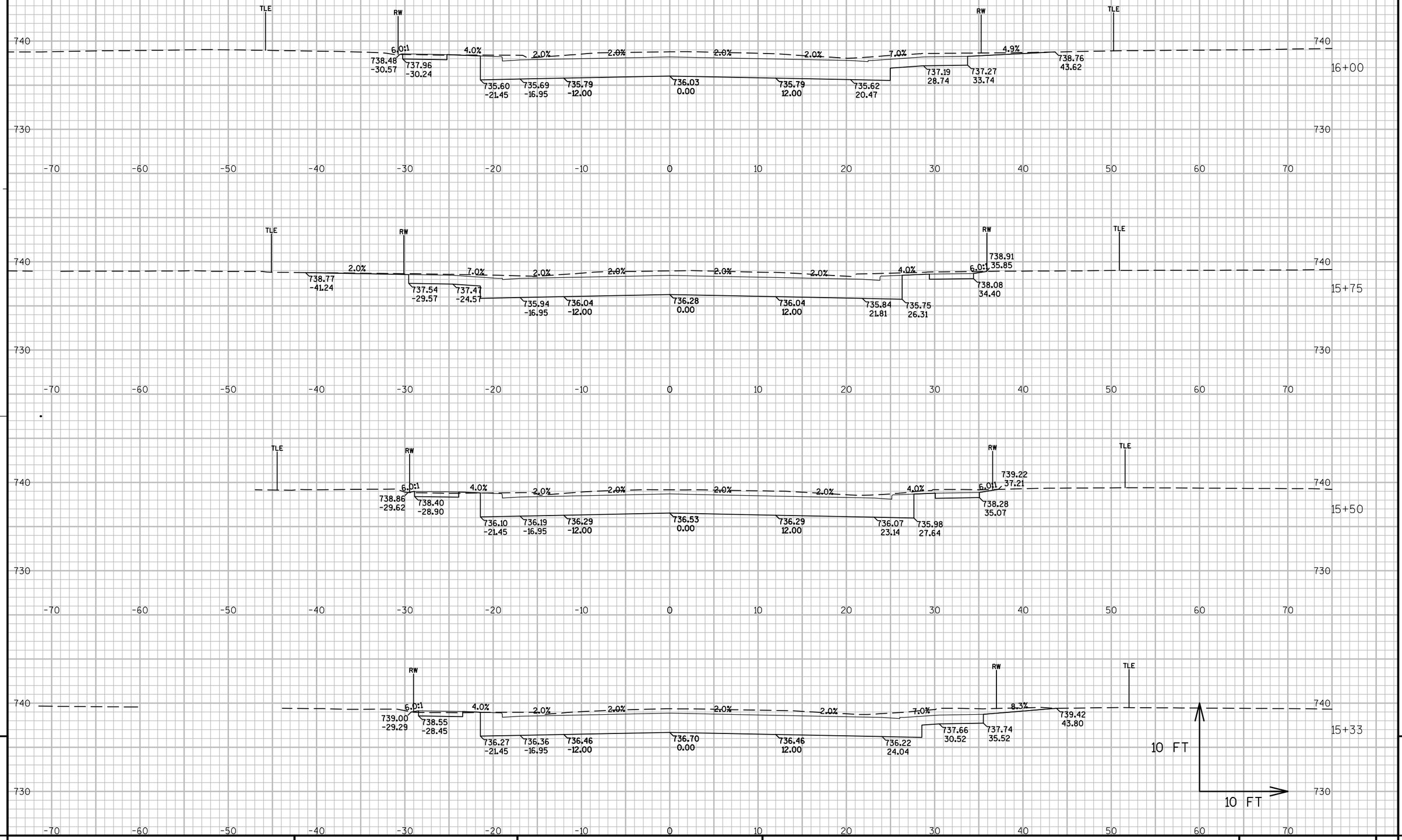


9

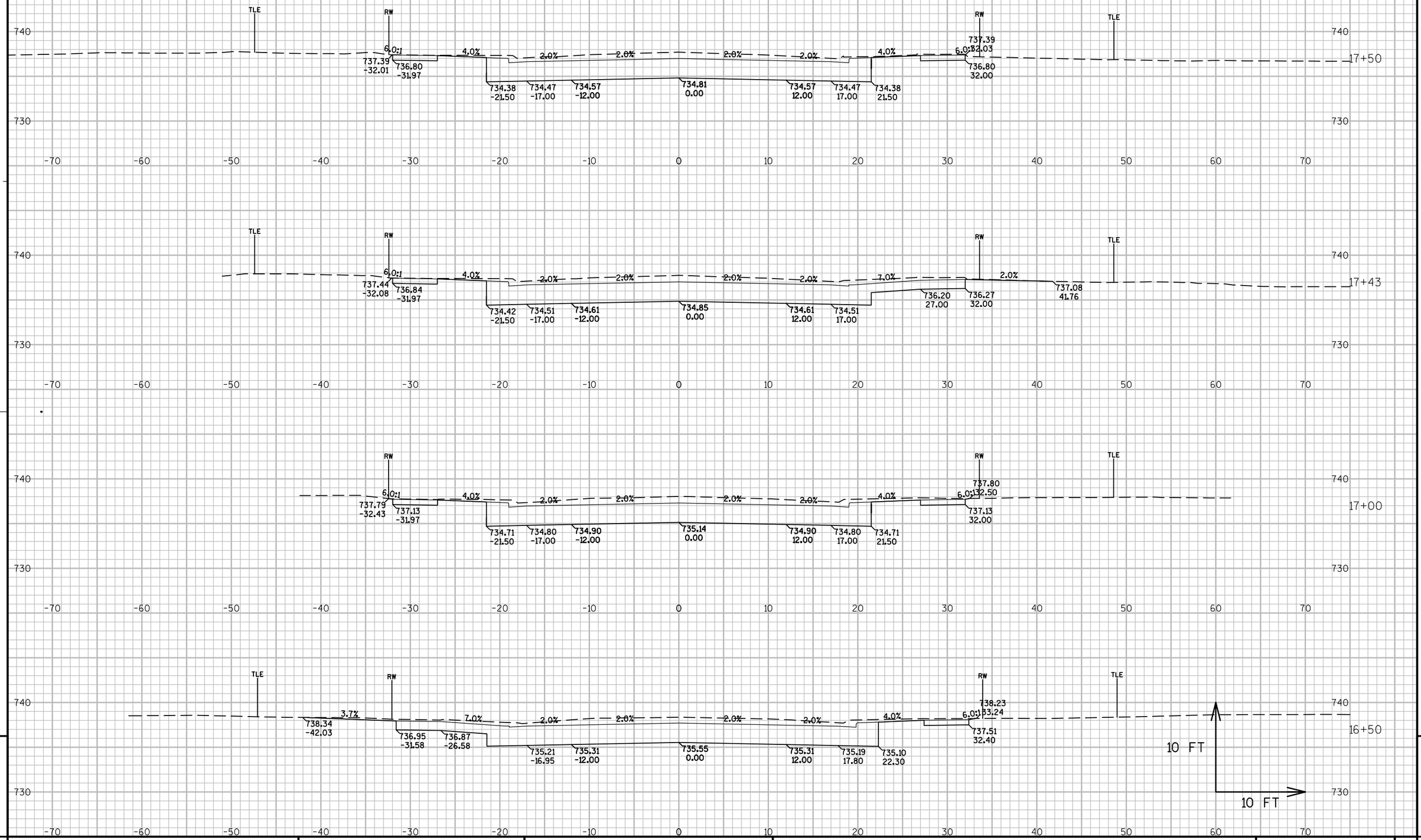
9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 278	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:51 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 23 STH 22 PLOT SCALE : 1" = 10'_XREF



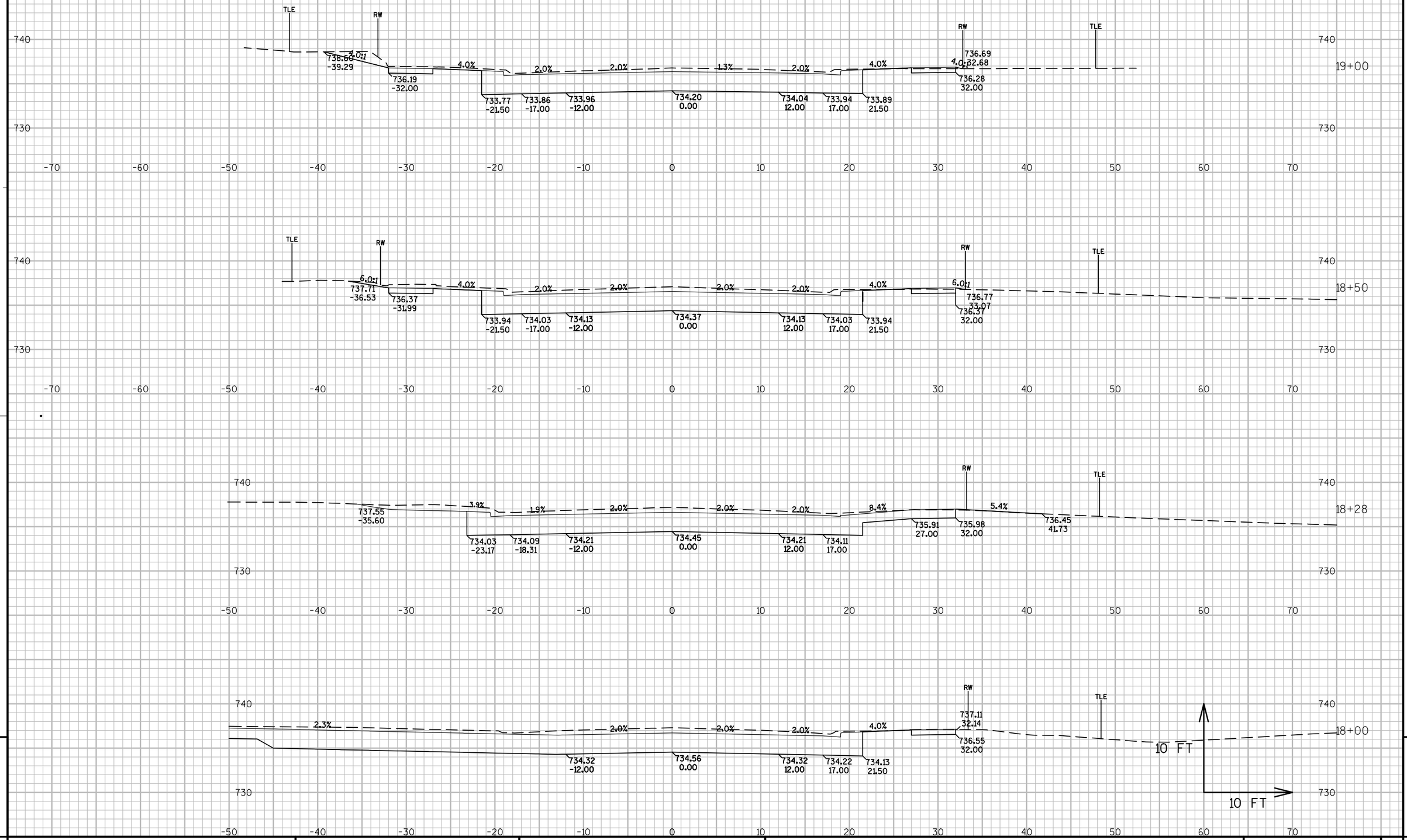
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 279	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 280	E

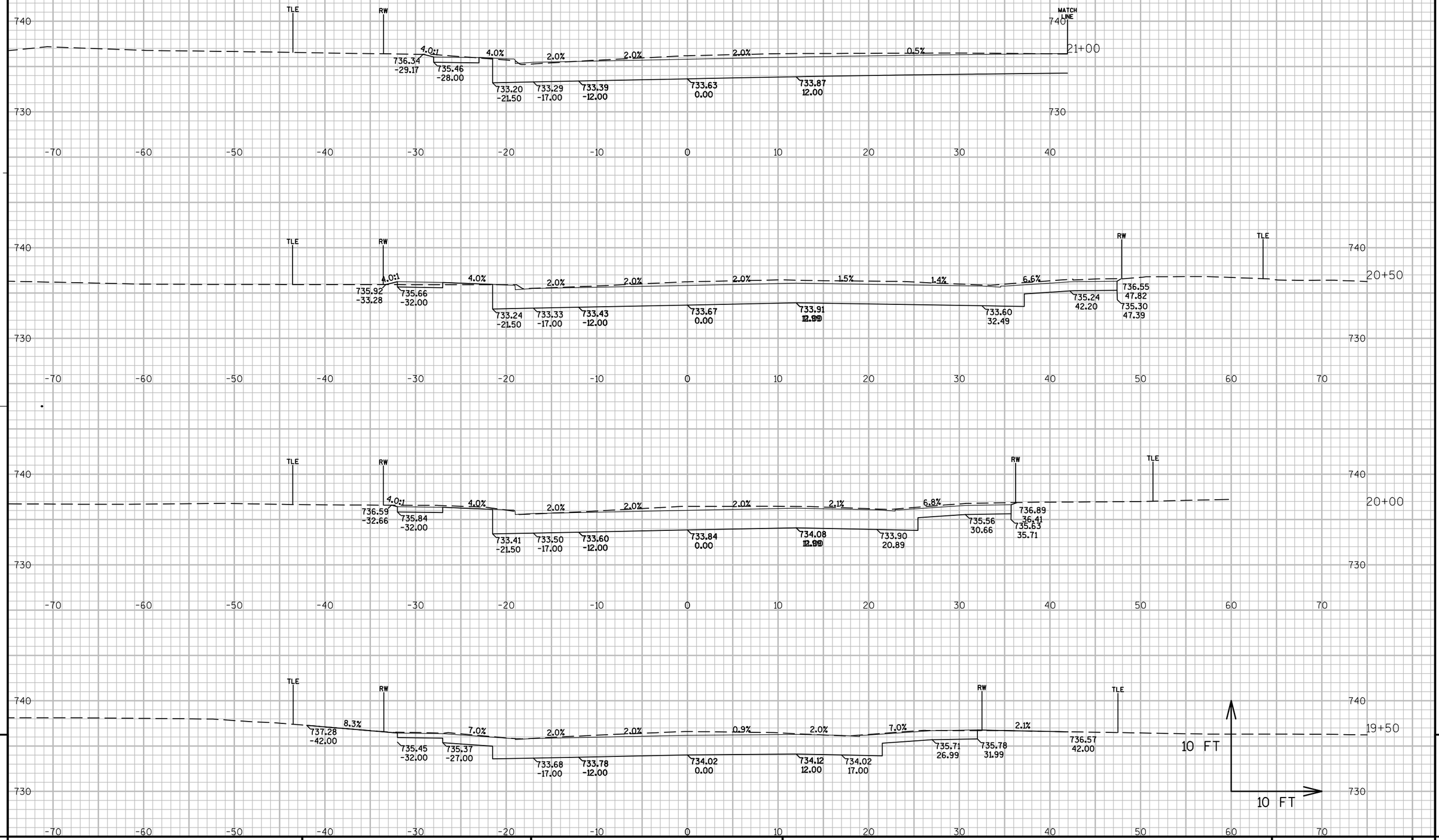
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:54 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 25 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



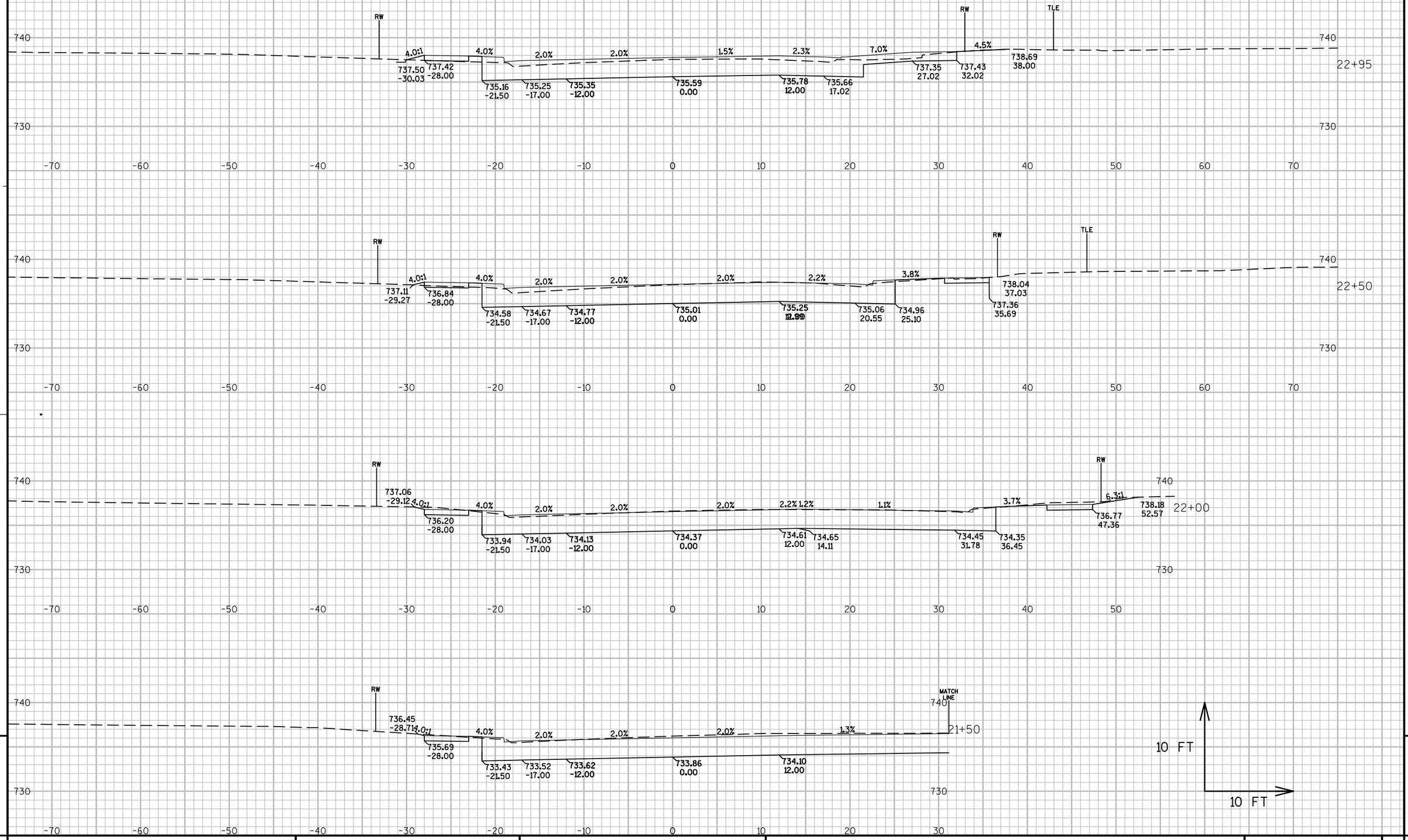
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:56 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 26 STH 22 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

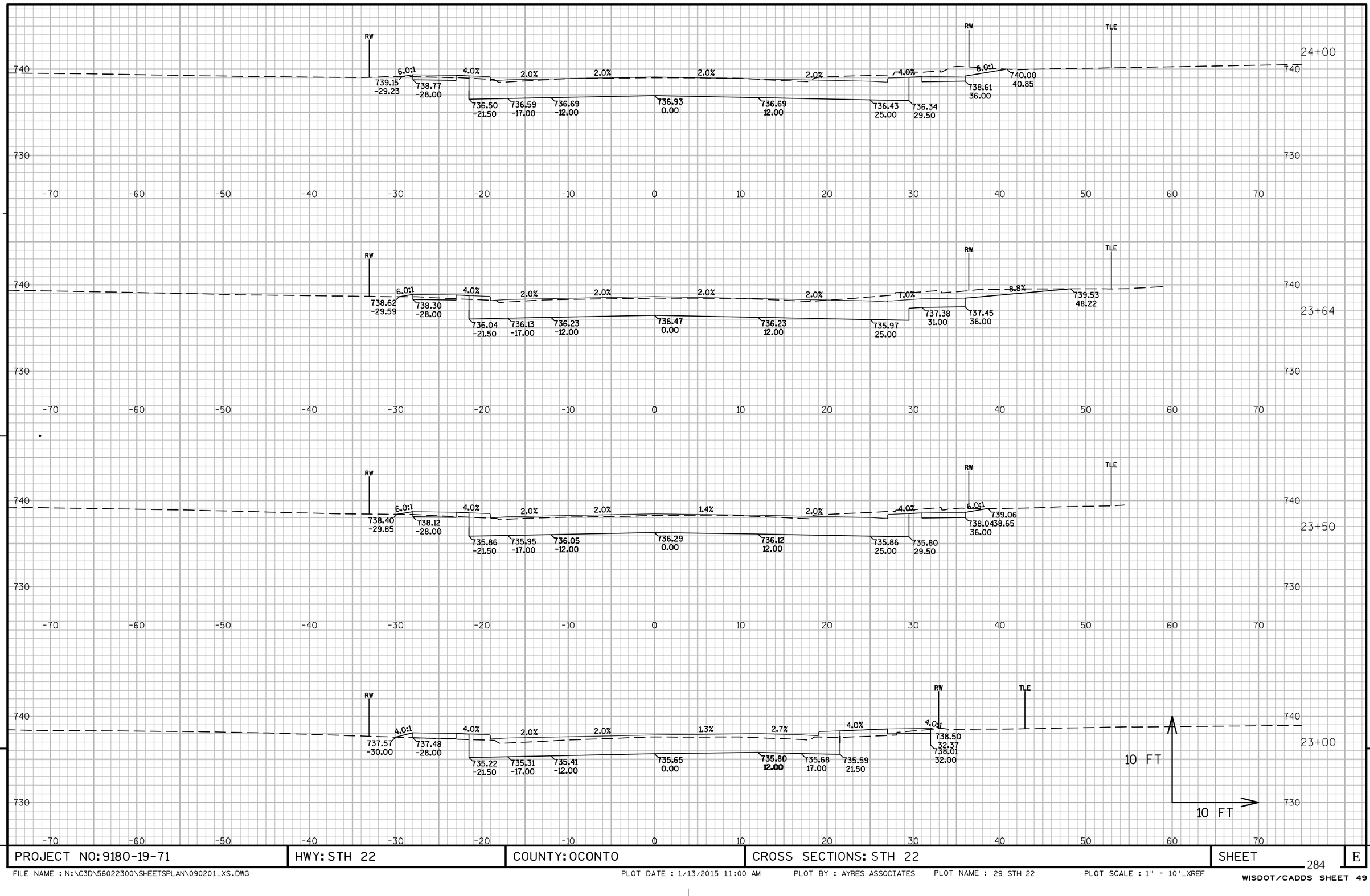
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:57 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 27 STH 22 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

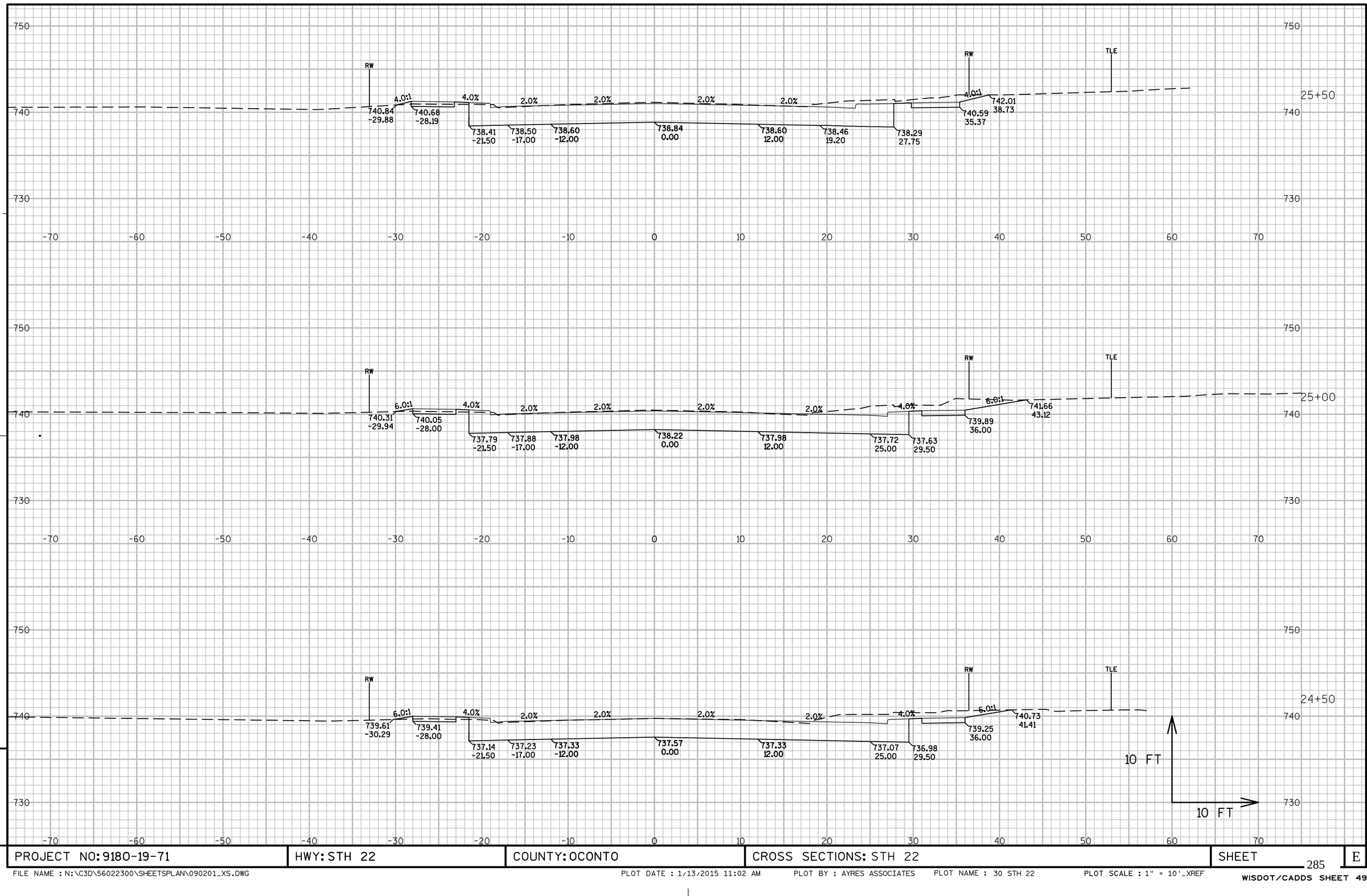
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 10:59 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 28 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:00 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 29 STH 22 PLOT SCALE : 1" = 10'_XREF



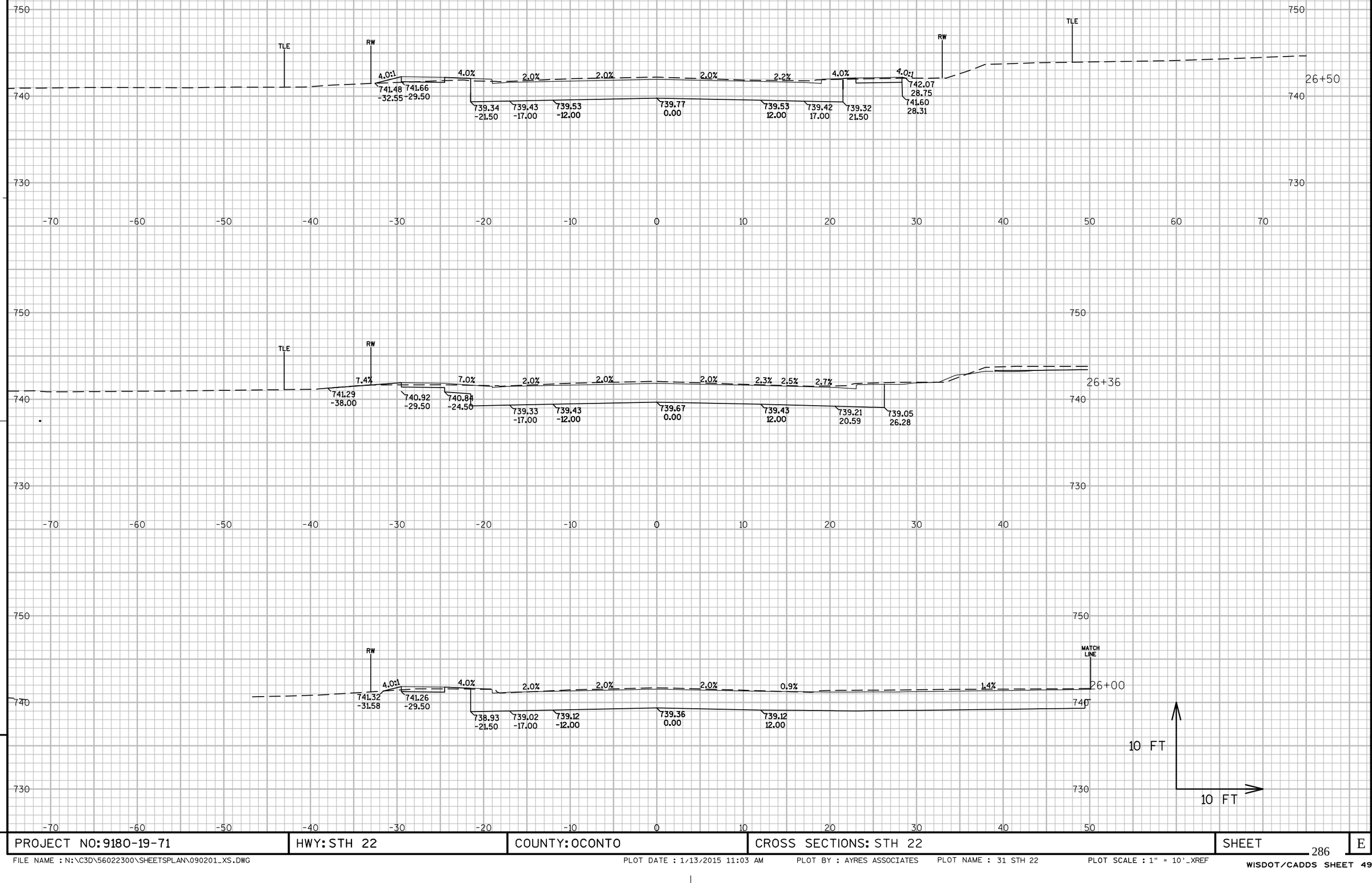
9

9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

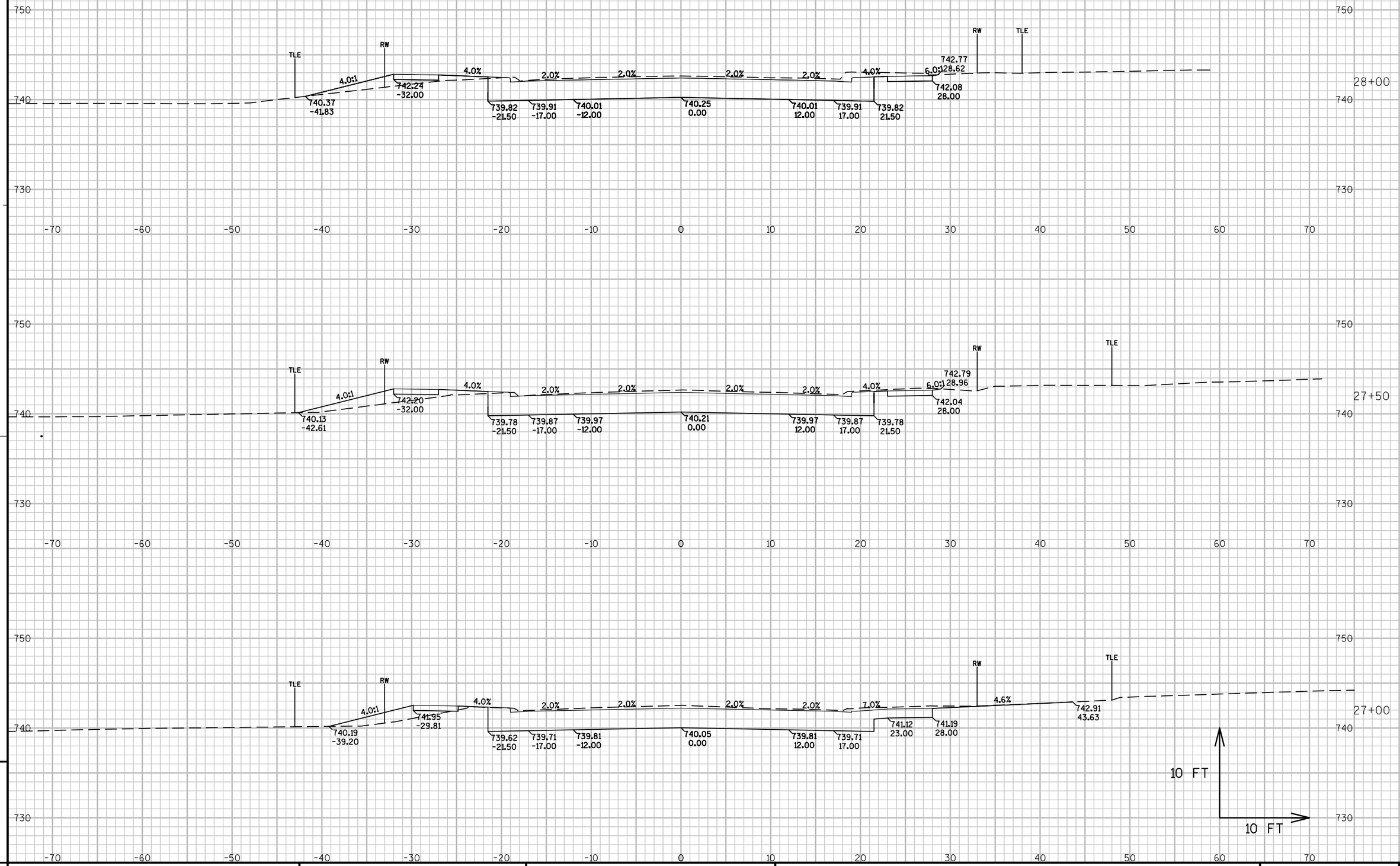
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:02 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 30 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



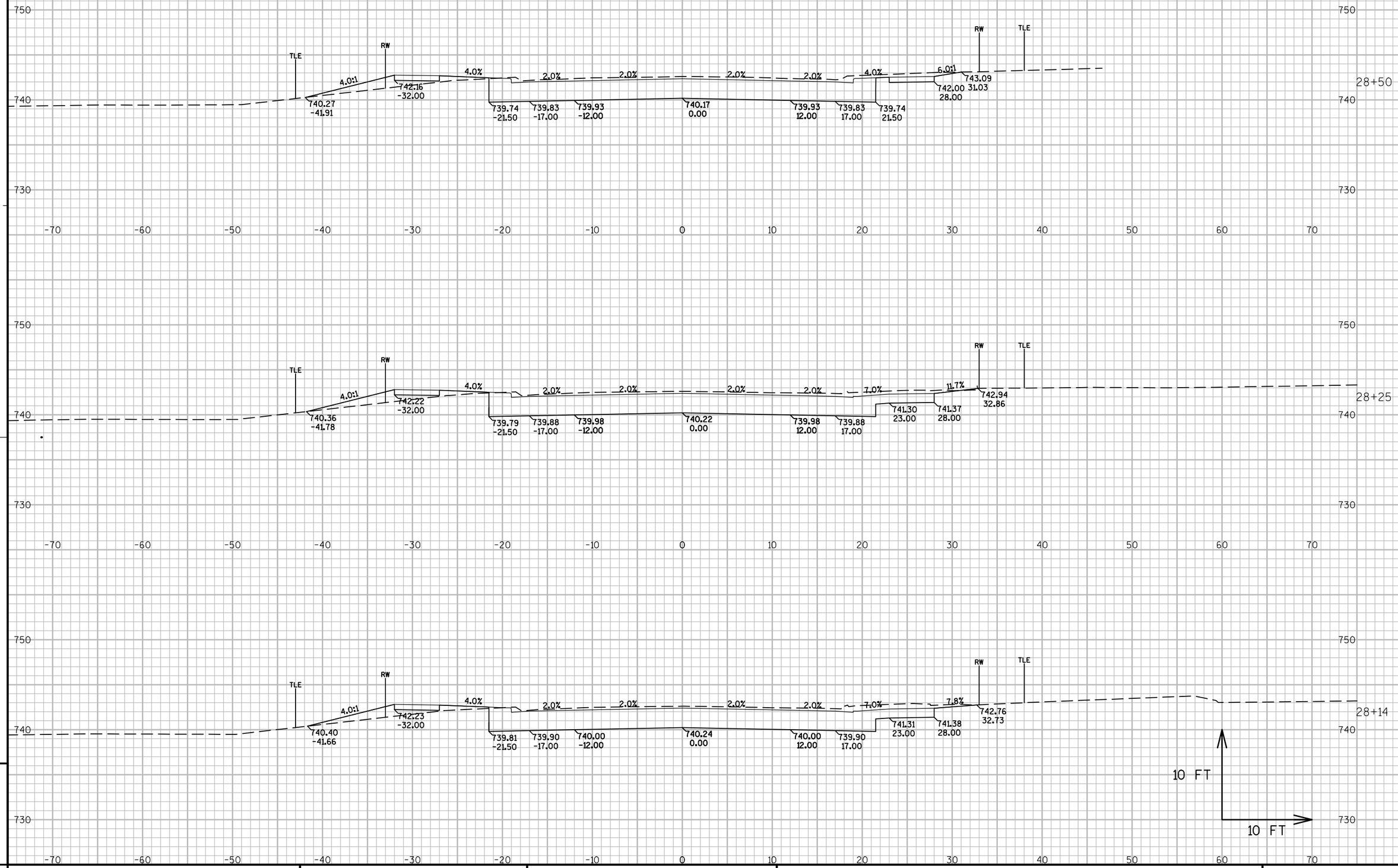
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:03 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 31 STH 22 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

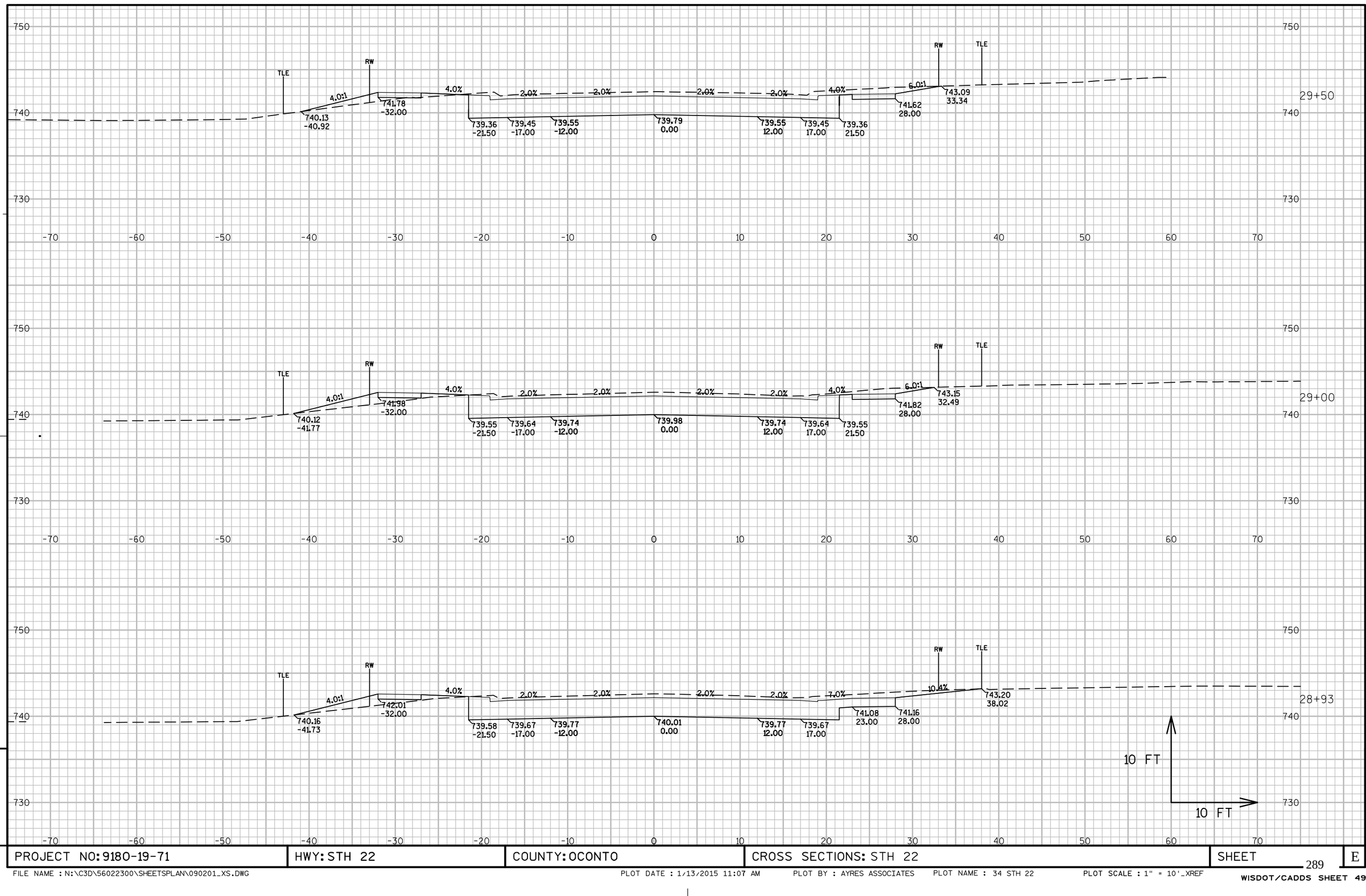
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:05 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 32 STH 22 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



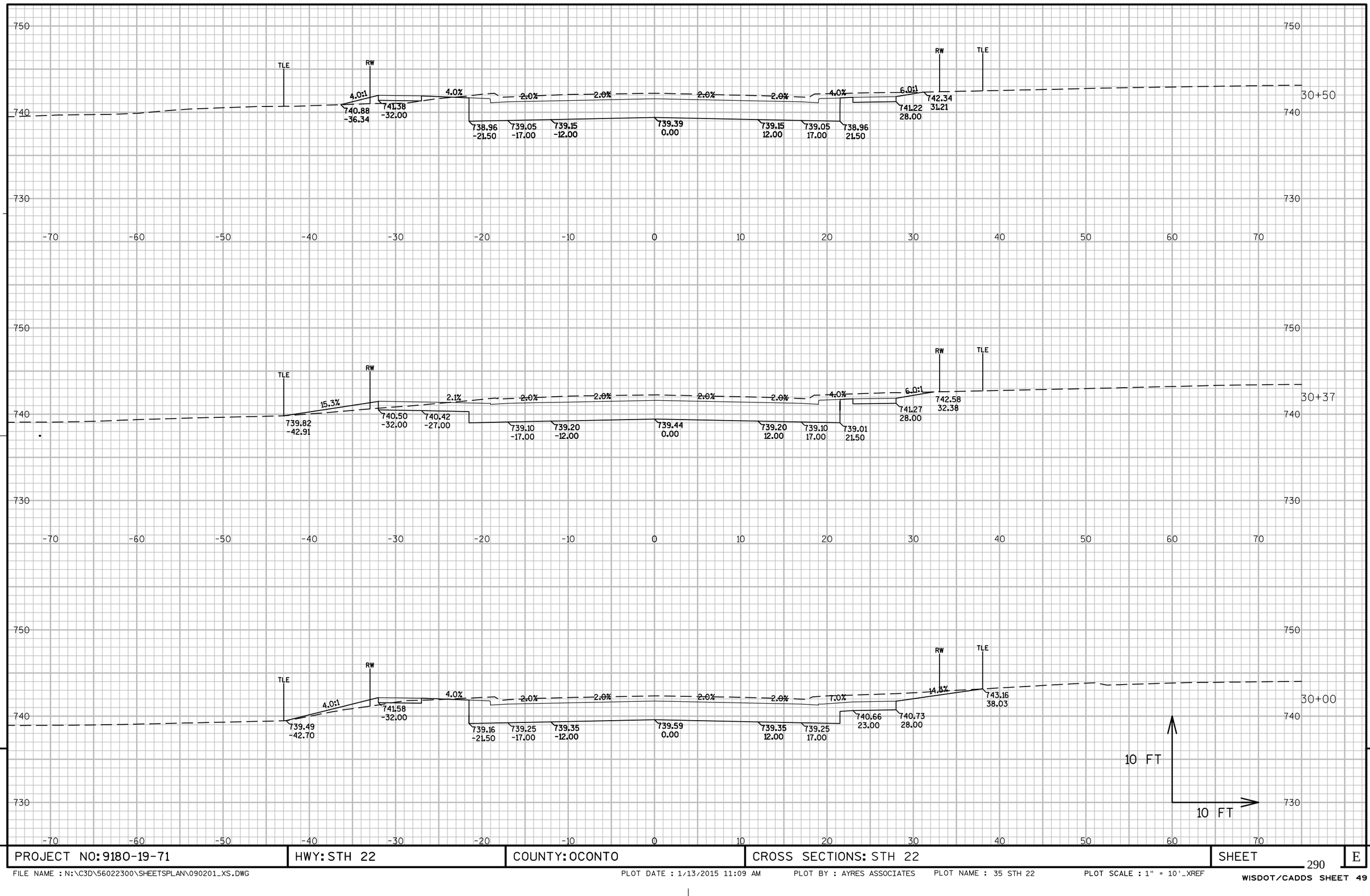
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:06 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 33 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



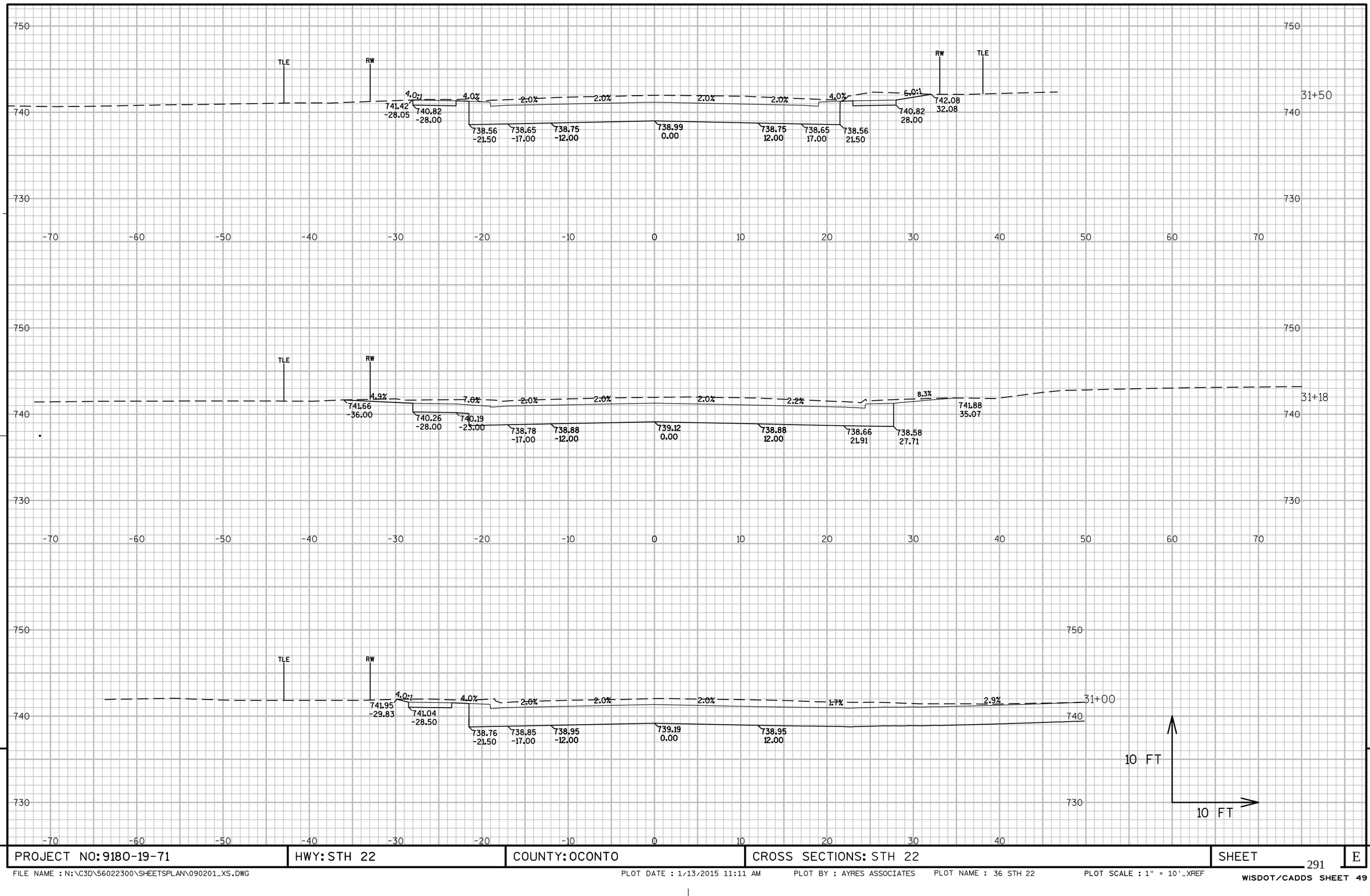
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 289	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 290	E

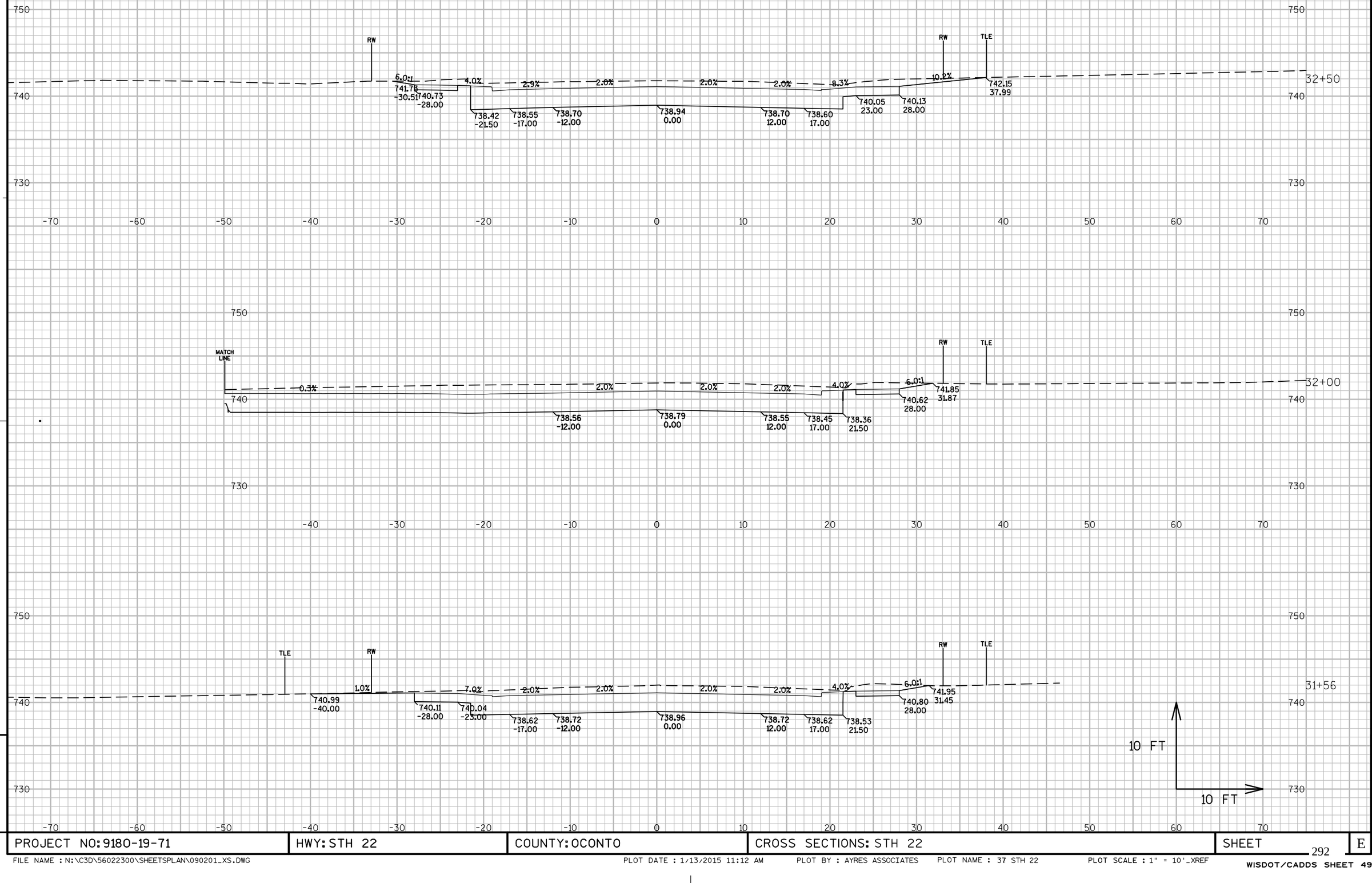
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:09 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 35 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:11 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 36 STH 22 PLOT SCALE : 1" = 10'_XREF

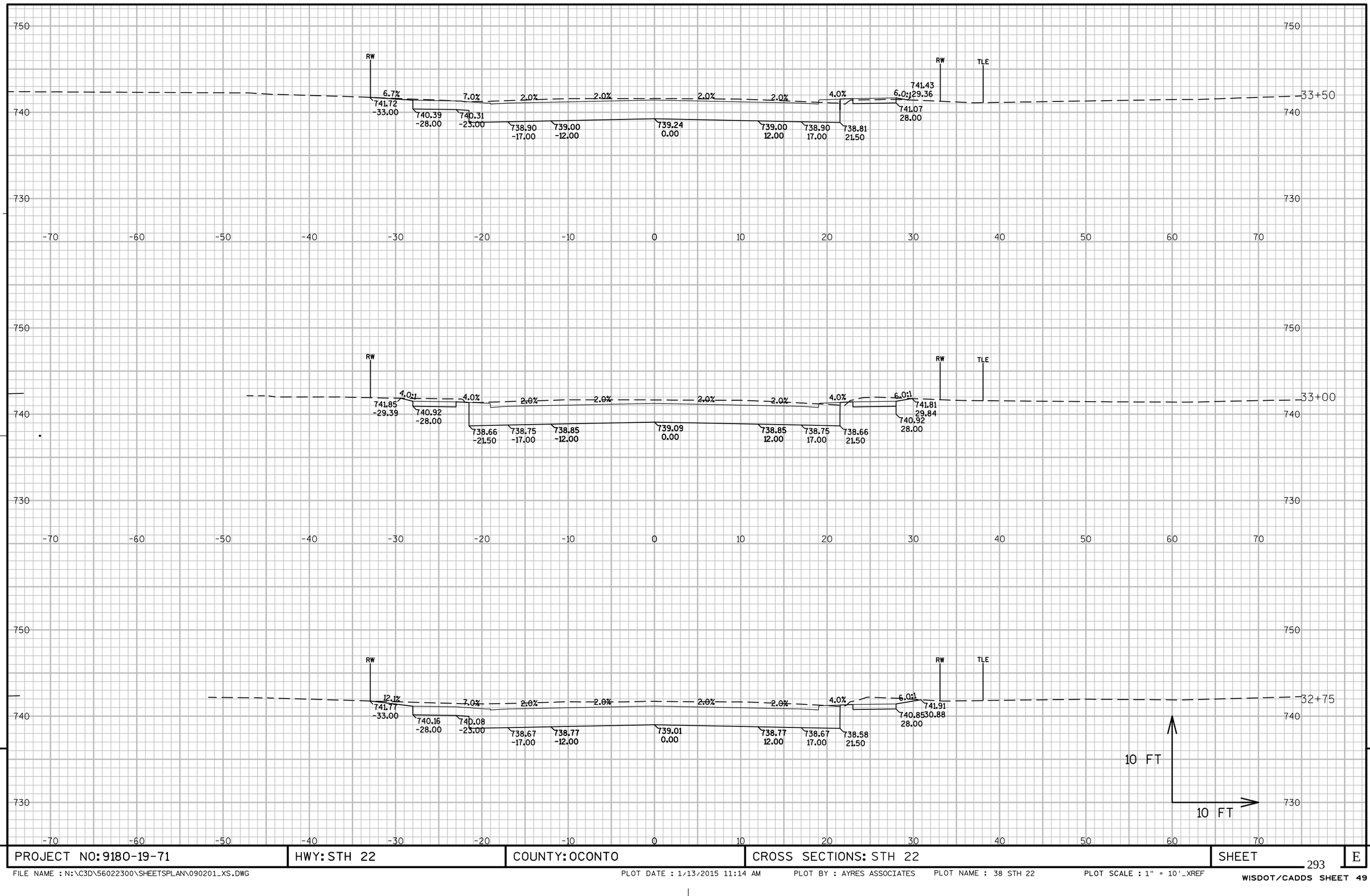


9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

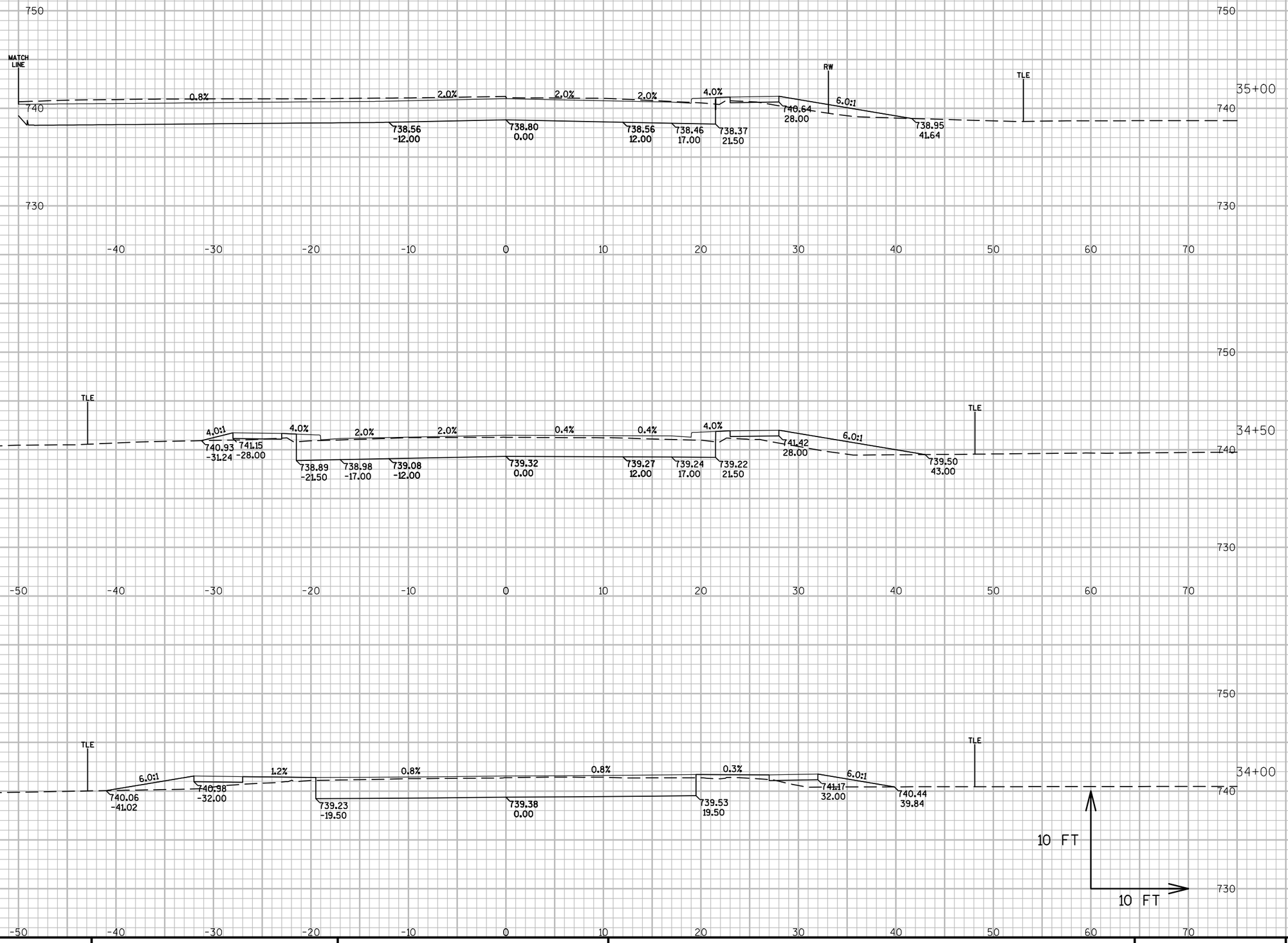
9

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:12 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 37 STH 22 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49

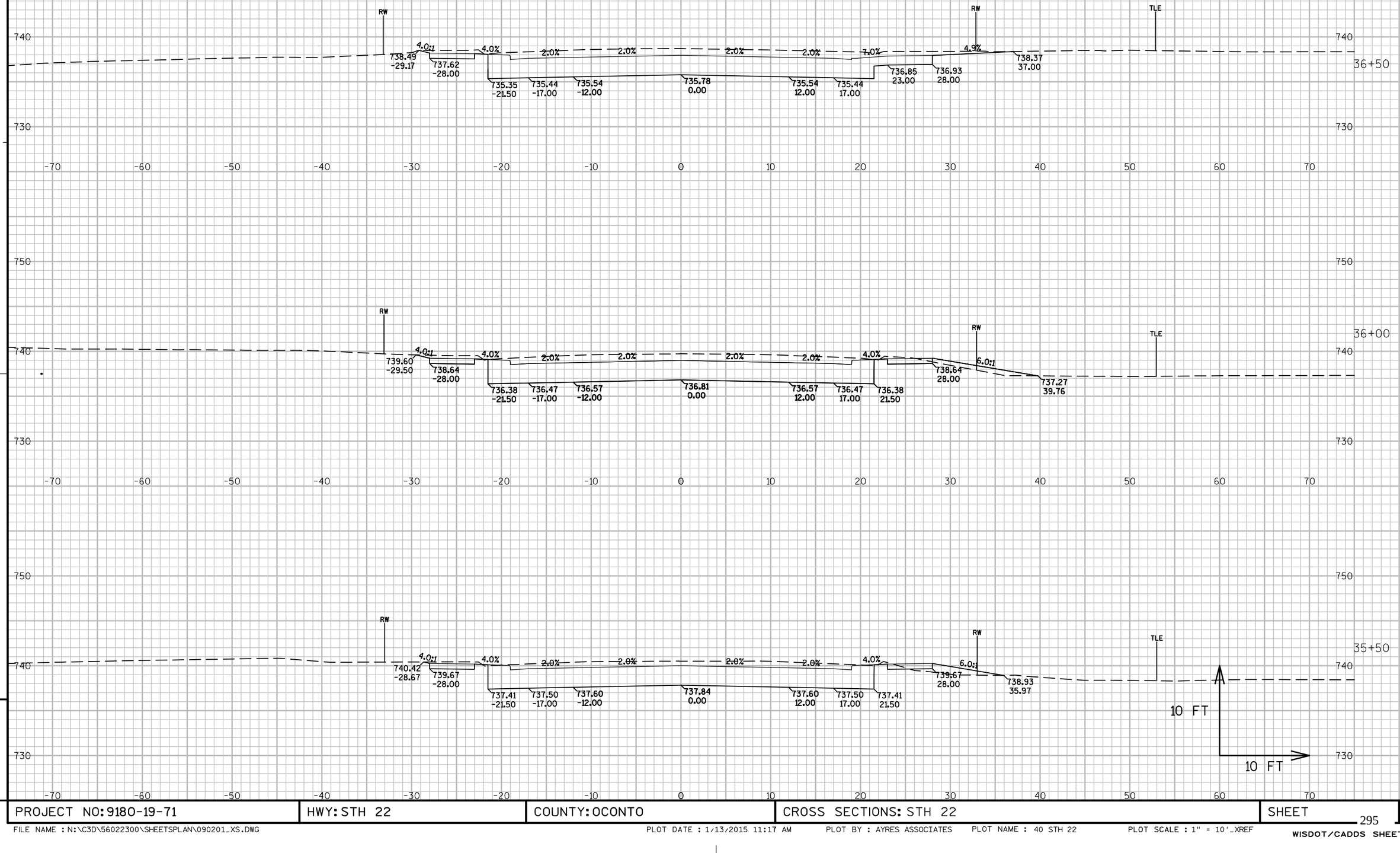


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:14 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 38 STH 22 PLOT SCALE : 1" = 10'_XREF



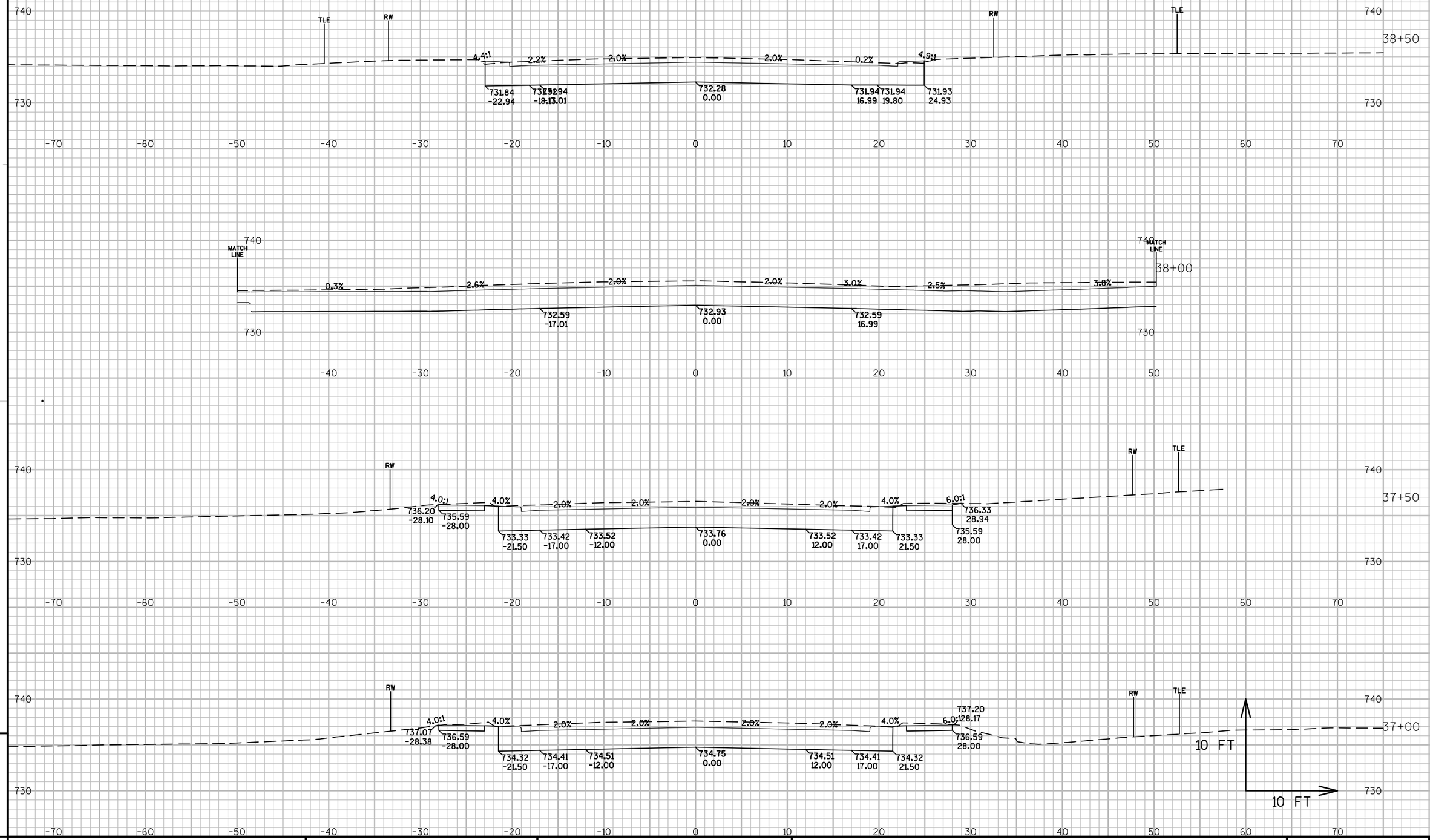
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 294	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 295	E

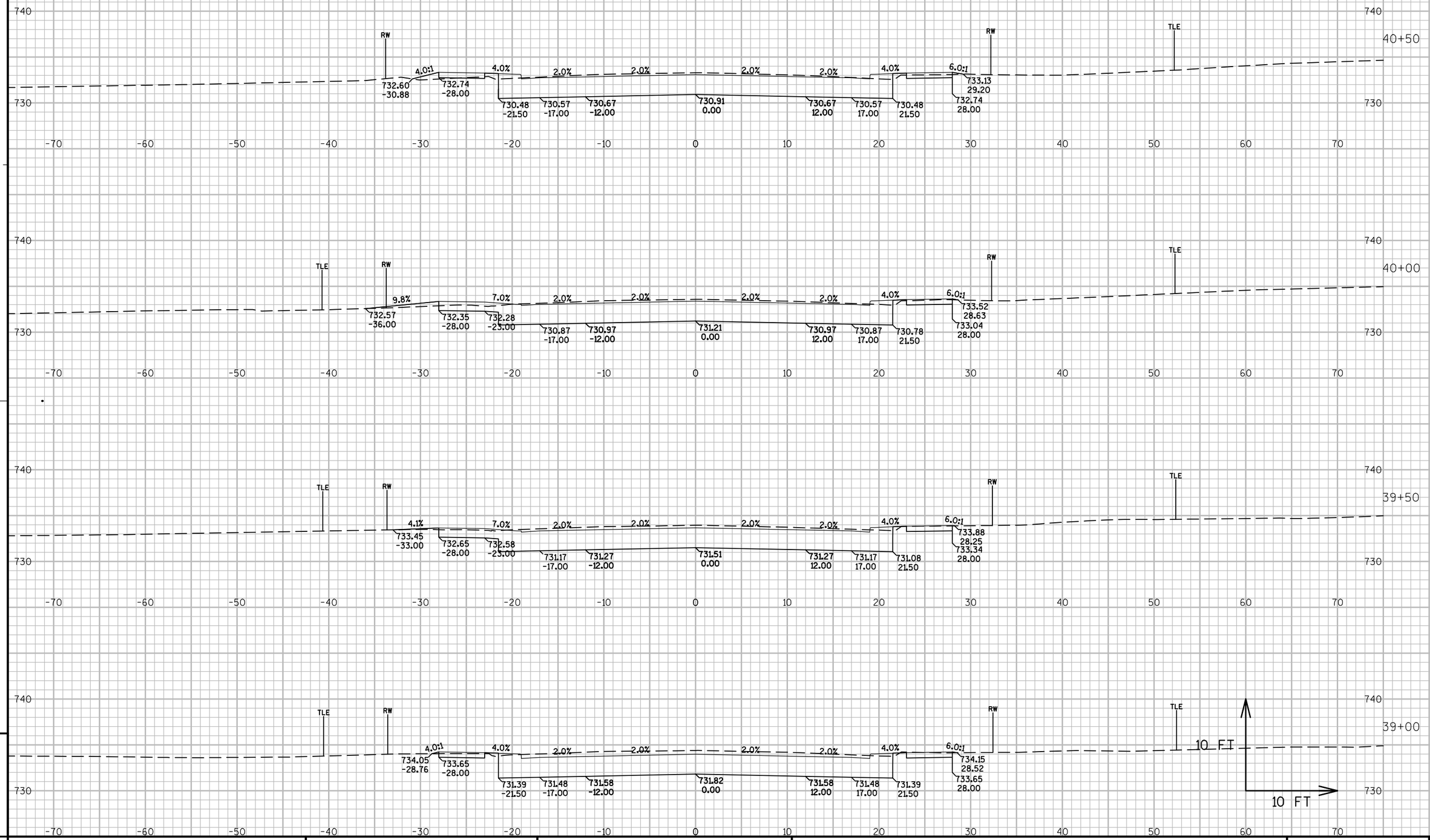
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:17 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 40 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

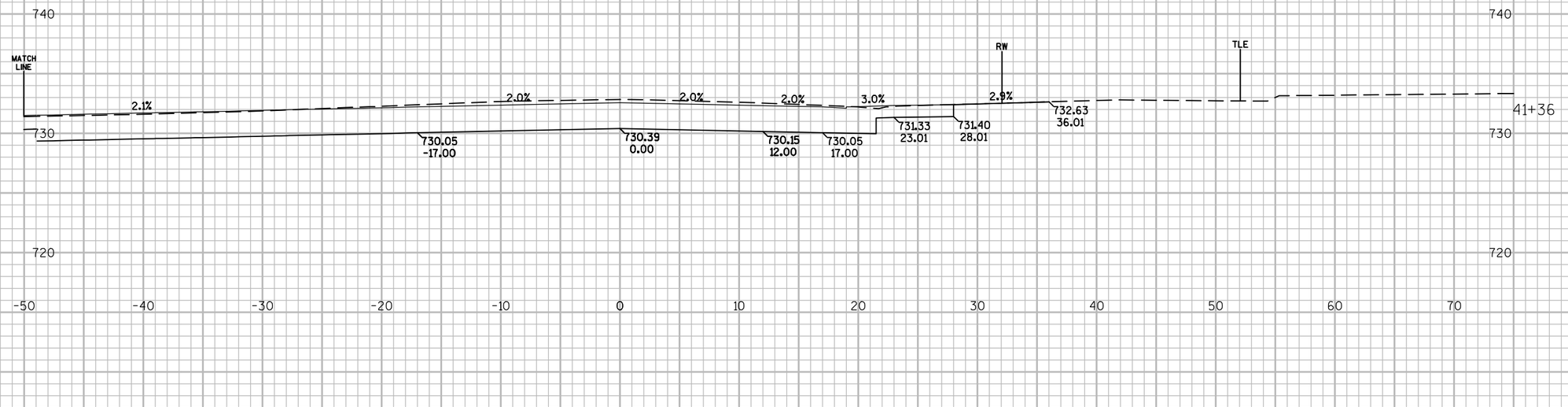
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:18 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 41 STH 22 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49

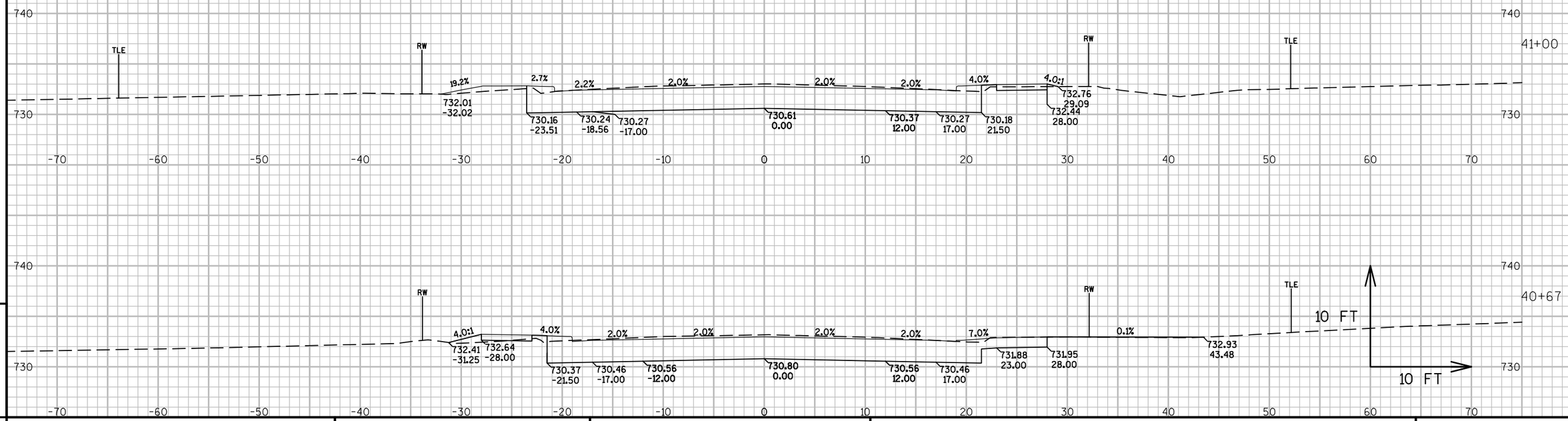


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:20 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 42 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

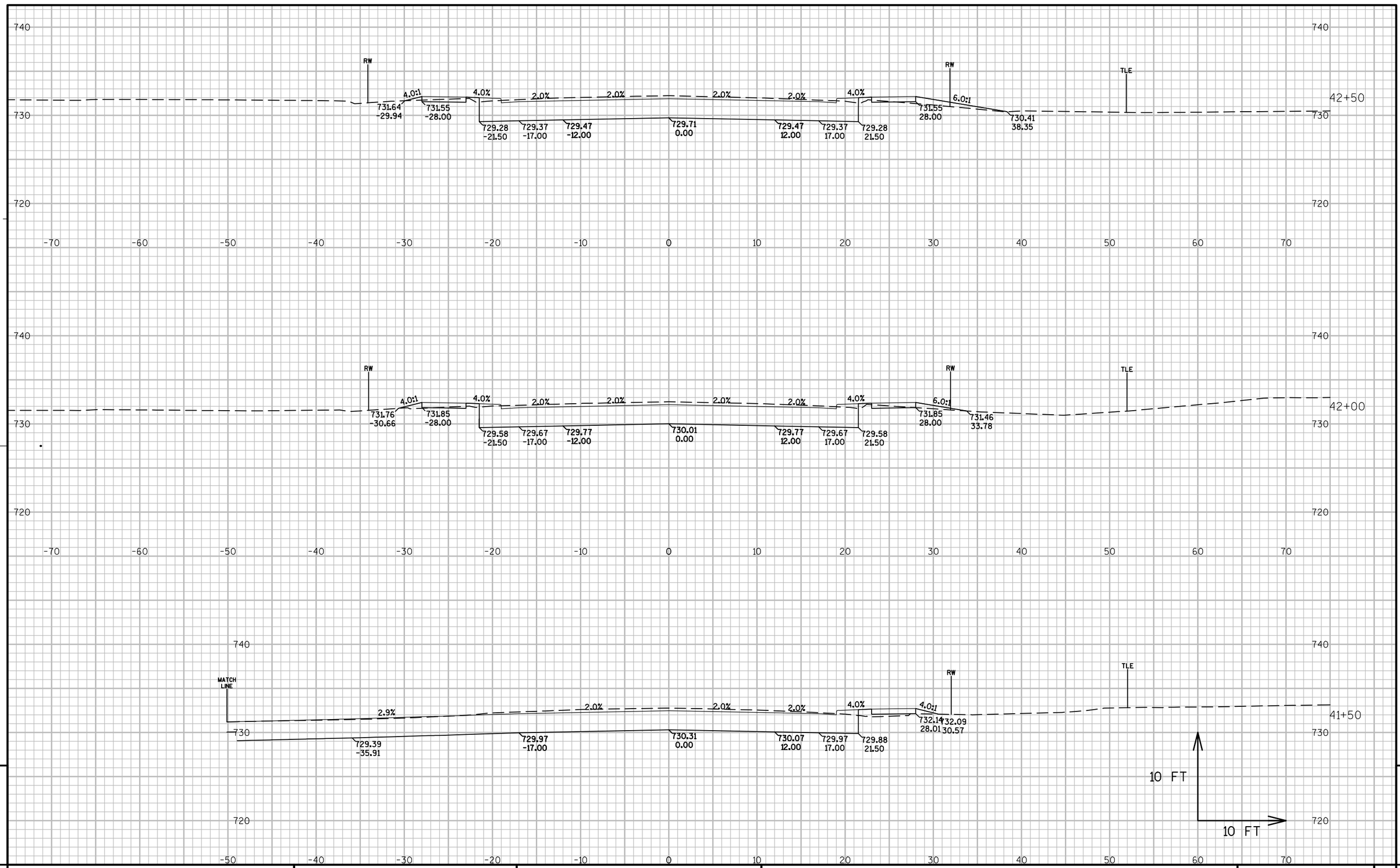




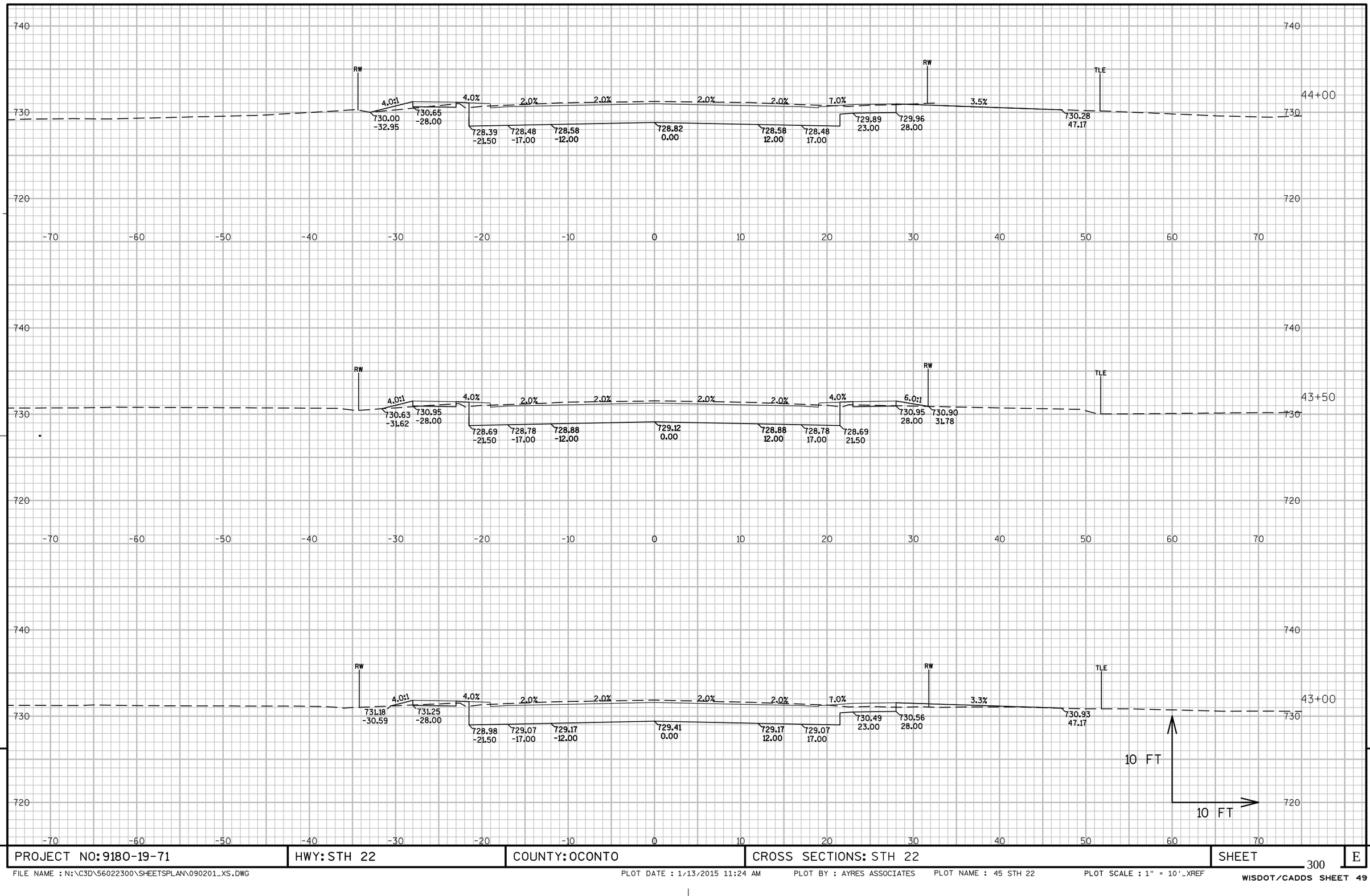
9

9

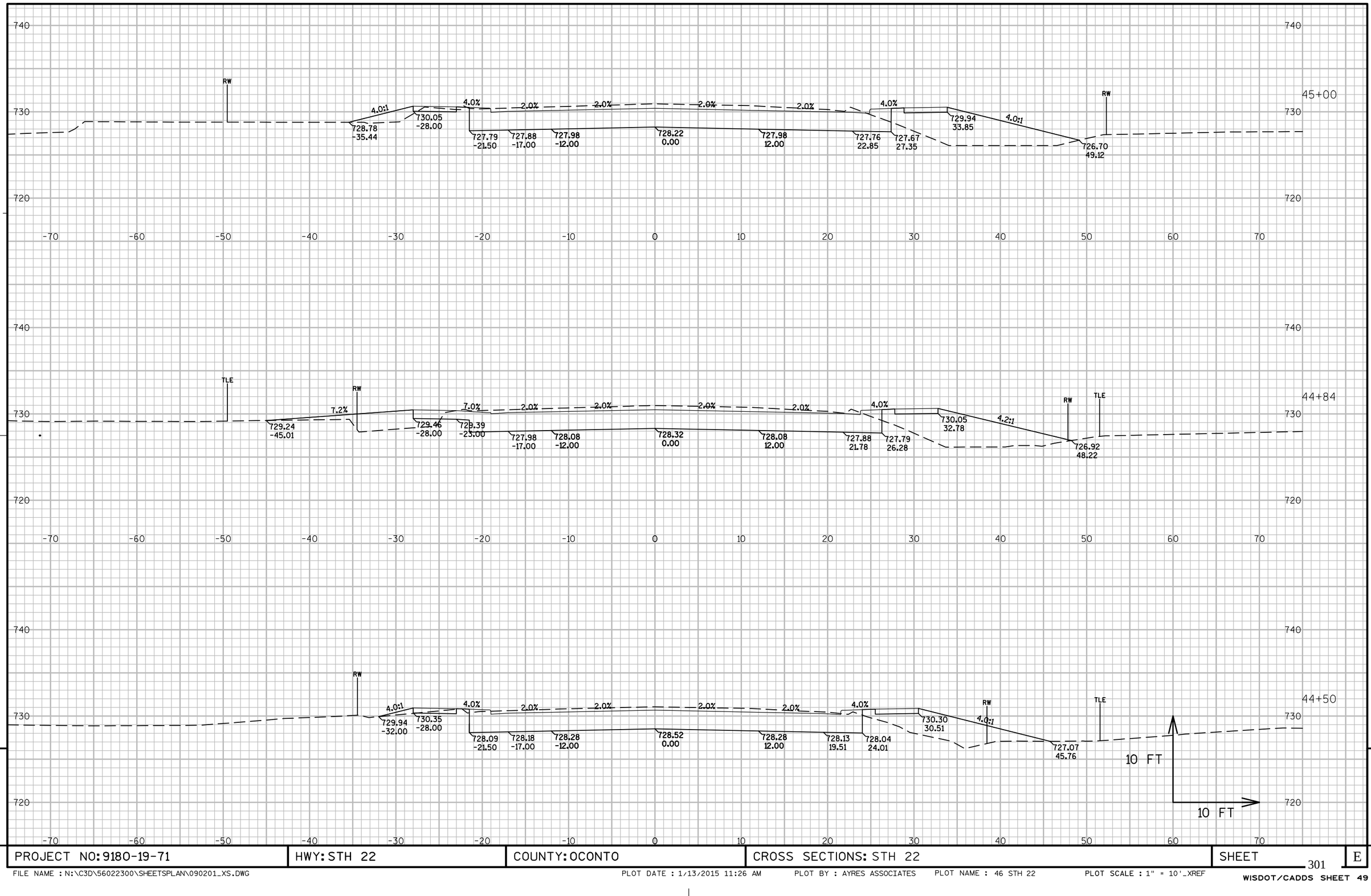
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 298	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 299	E



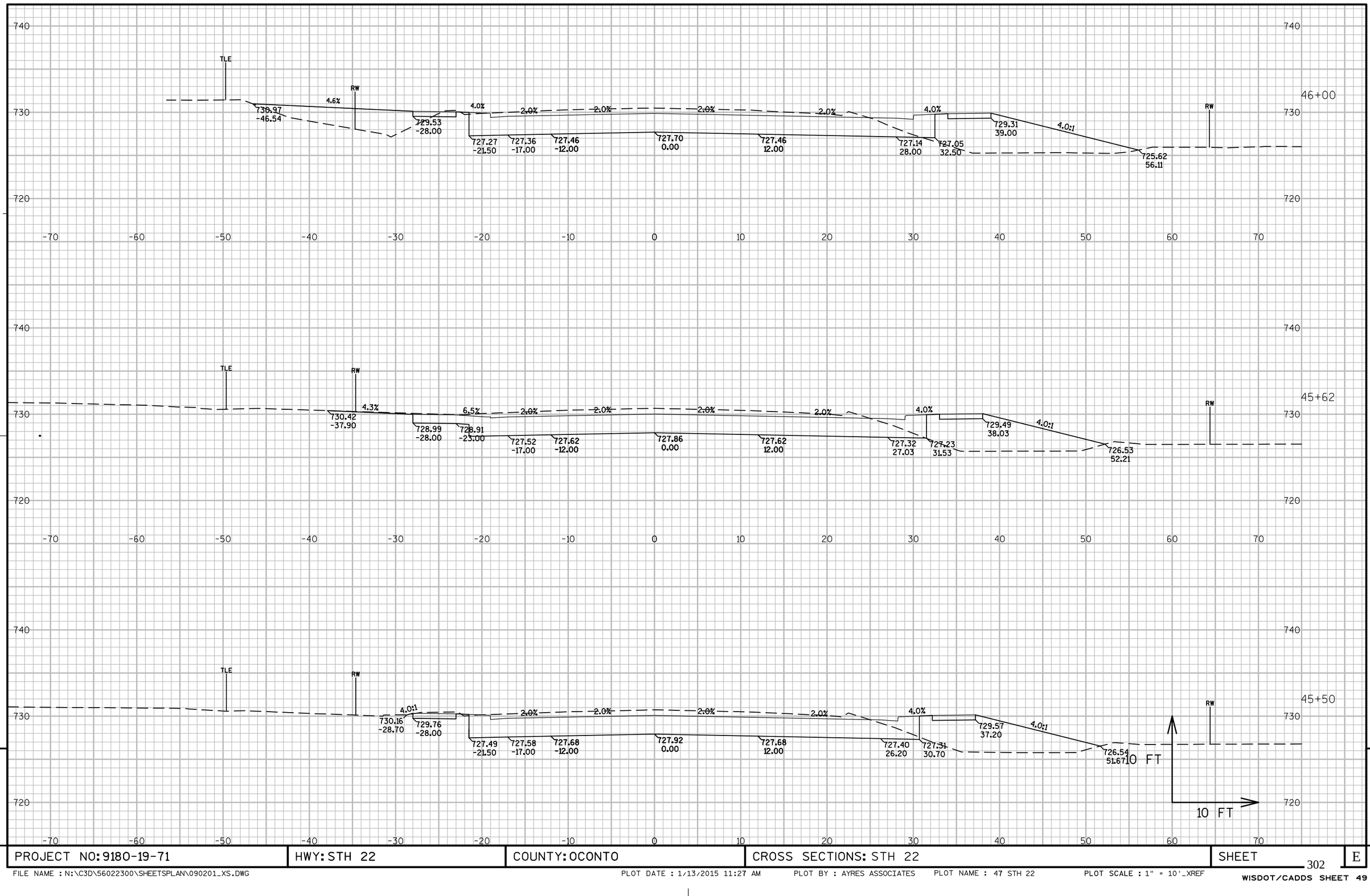
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 300	E



9

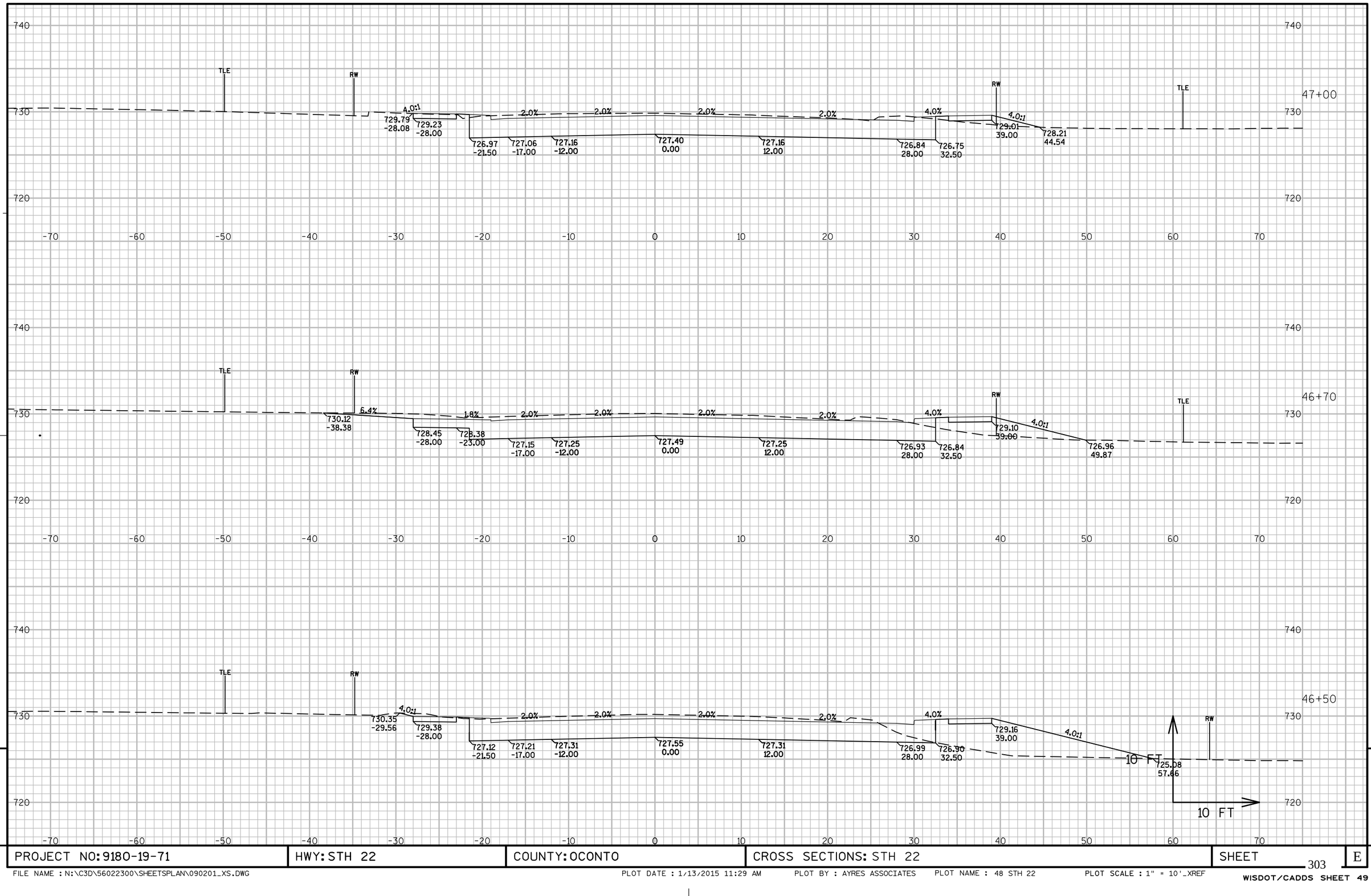
9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 301	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET 302	E

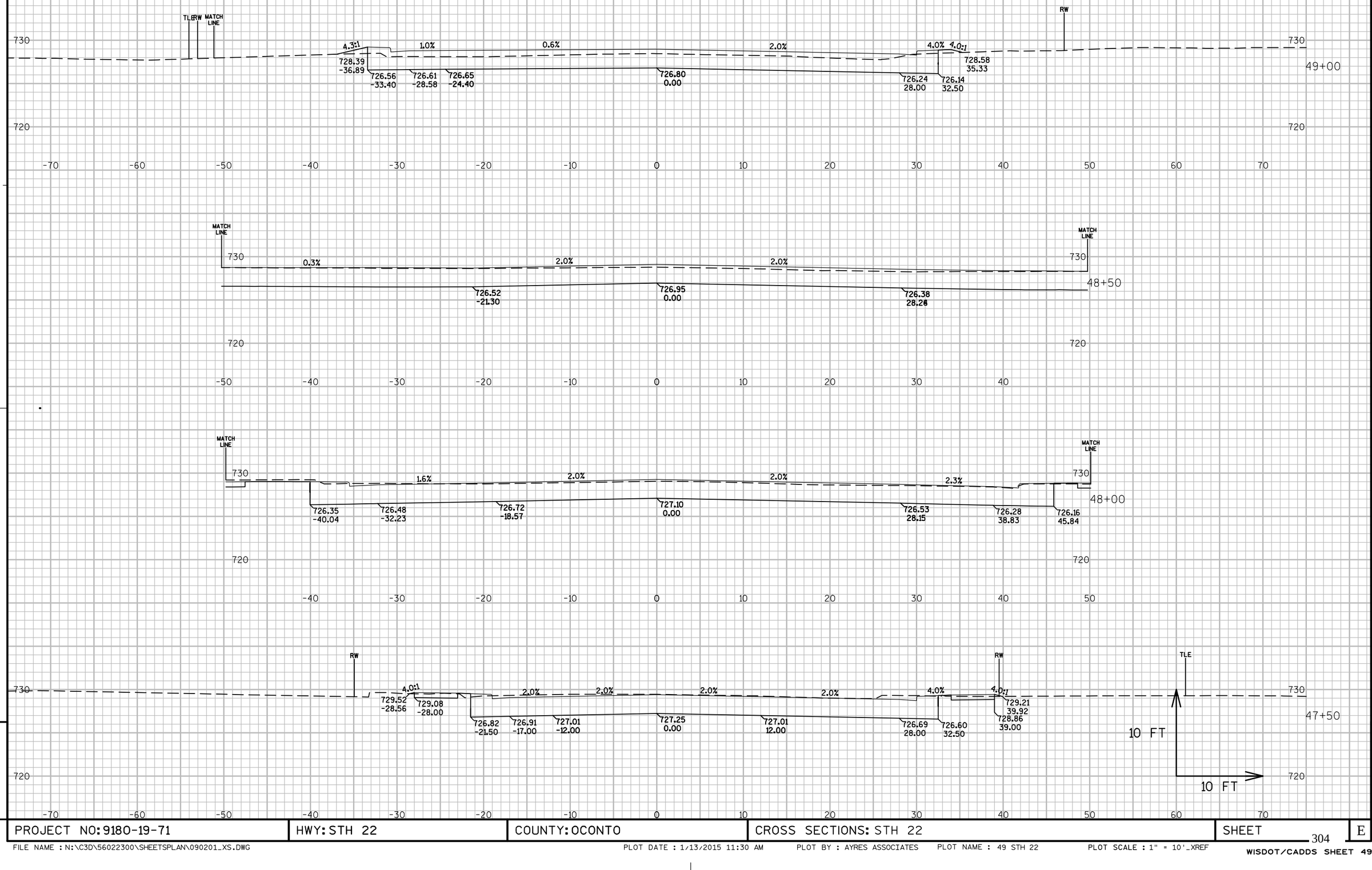
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:27 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 47 STH 22 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:29 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 48 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 11:30 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 49 STH 22 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

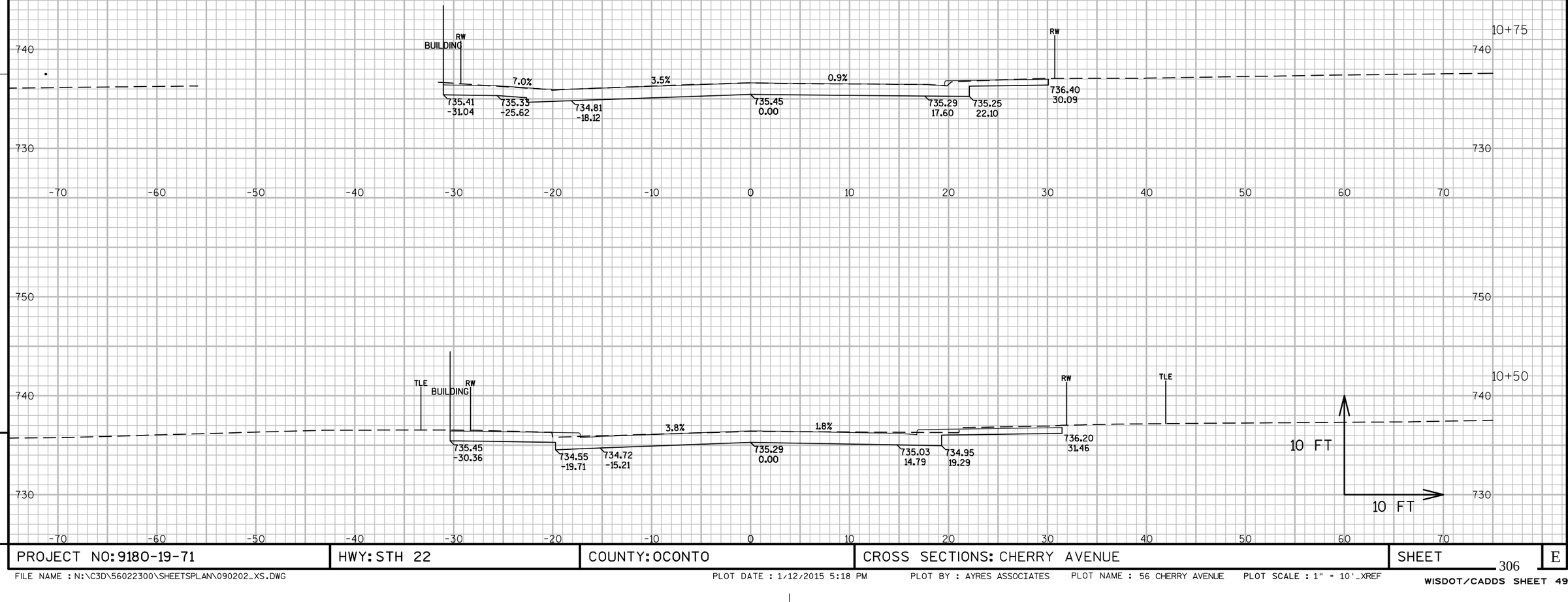
9

9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: 50 STH 22	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090201_XS.DWG PLOT DATE : 1/13/2015 2:29 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 50 STH 22 PLOT SCALE : 1" = 10'_XREF

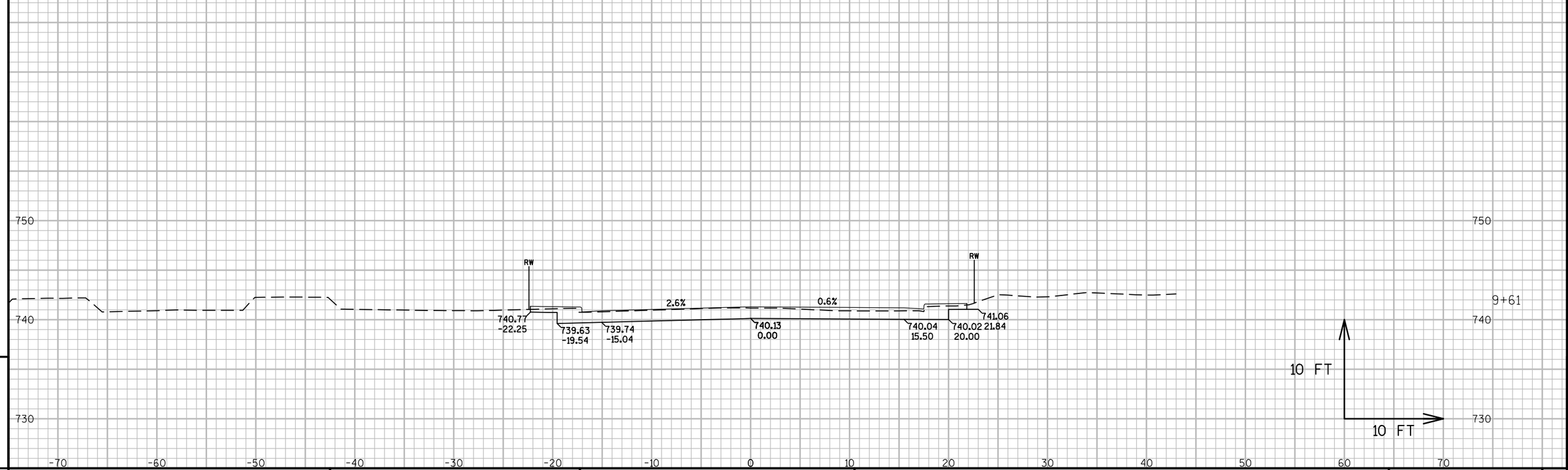
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: CHERRY AVENUE	SHEET 306	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 56 CHERRY AVENUE PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

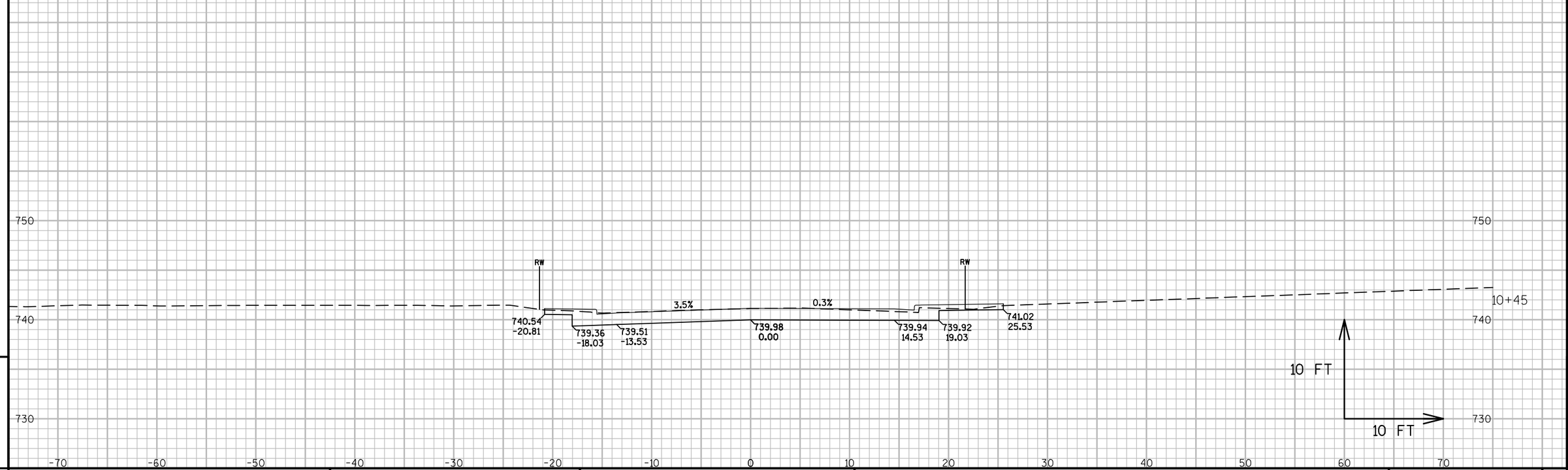


9

9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: CALDWELL AVENUE	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 53 CALDWELL AVENUE PLOT SCALE : 1" = 10'_XREF



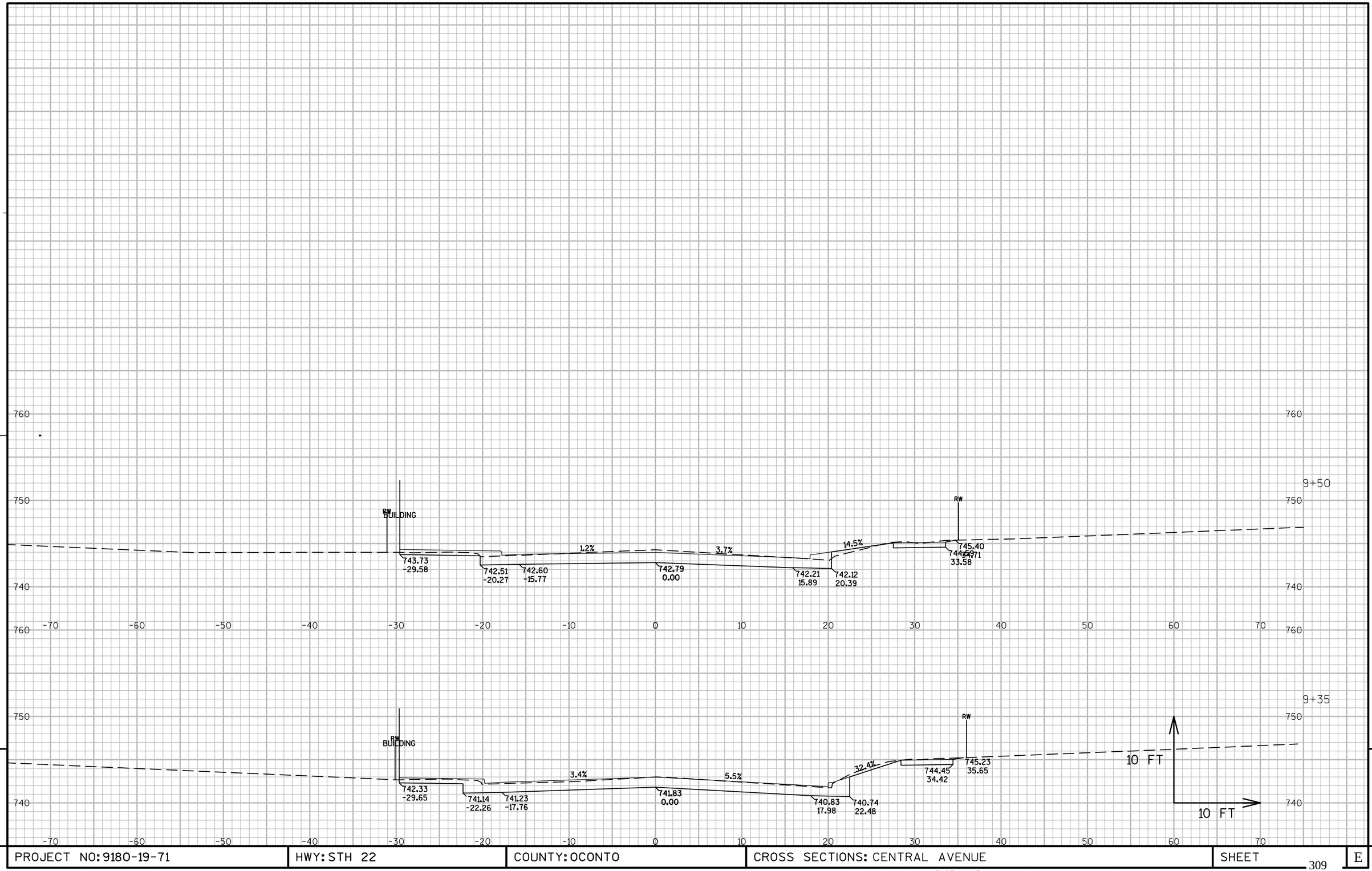
9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: CALDWELL AVENUE	SHEET	E

9

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:11 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : Section Sheet - (3) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

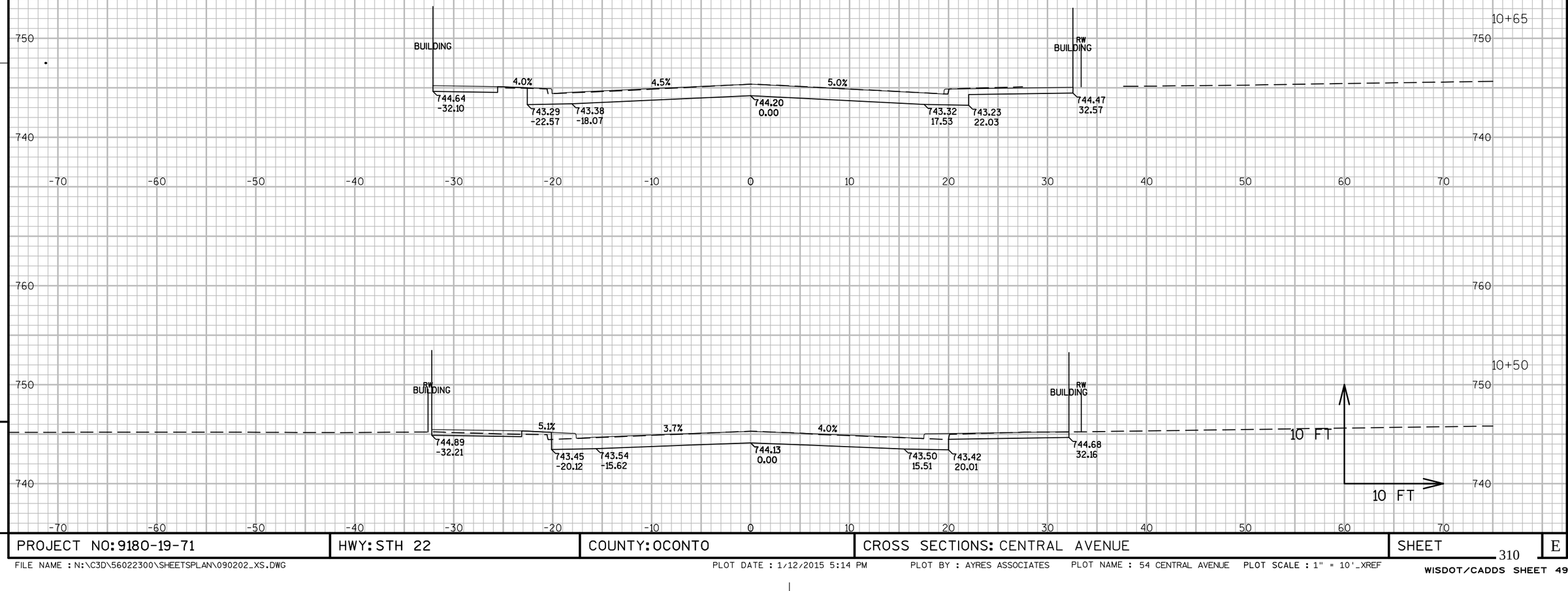


9 9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: CENTRAL AVENUE	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 55 CENTRAL AVENUE PLOT SCALE : 1" = 10'_XREF

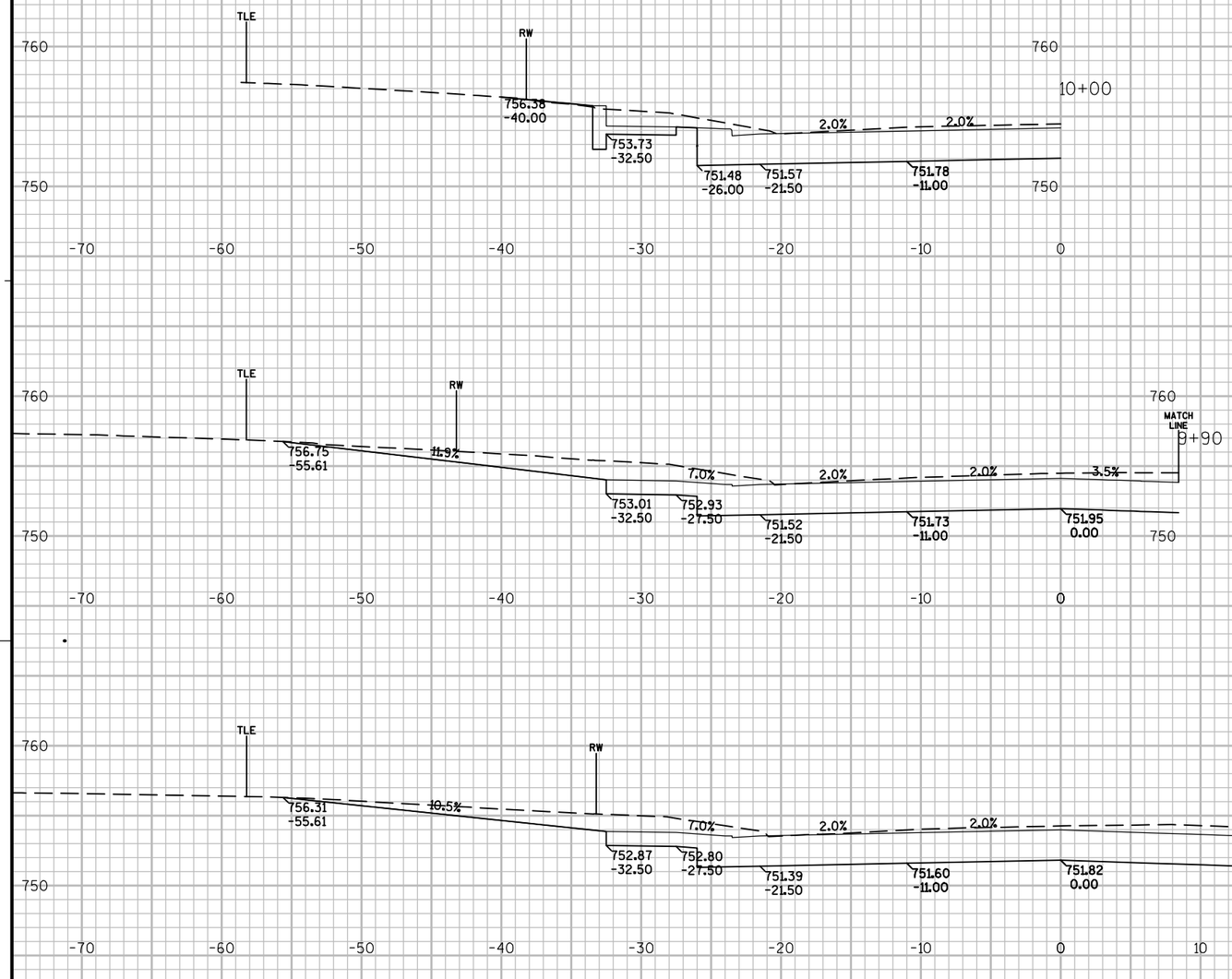
WISDOT/CADDS SHEET 49

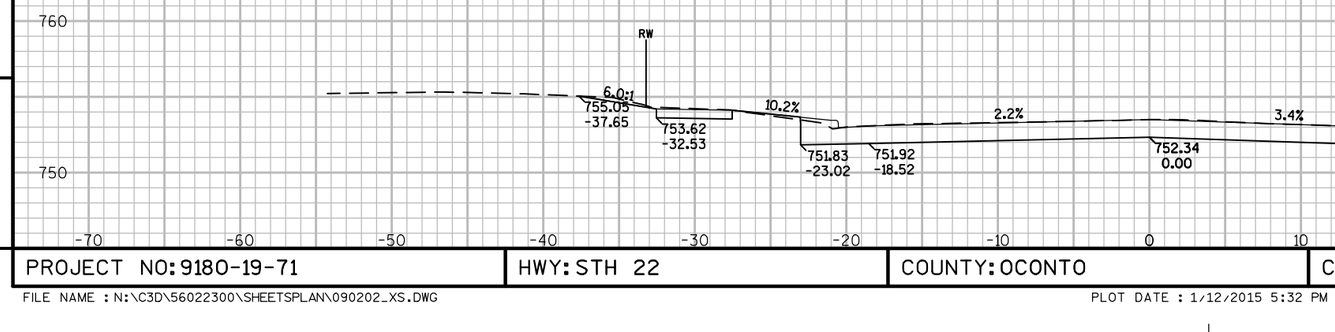


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: CENTRAL AVENUE	SHEET 310	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:14 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 54 CENTRAL AVENUE PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49





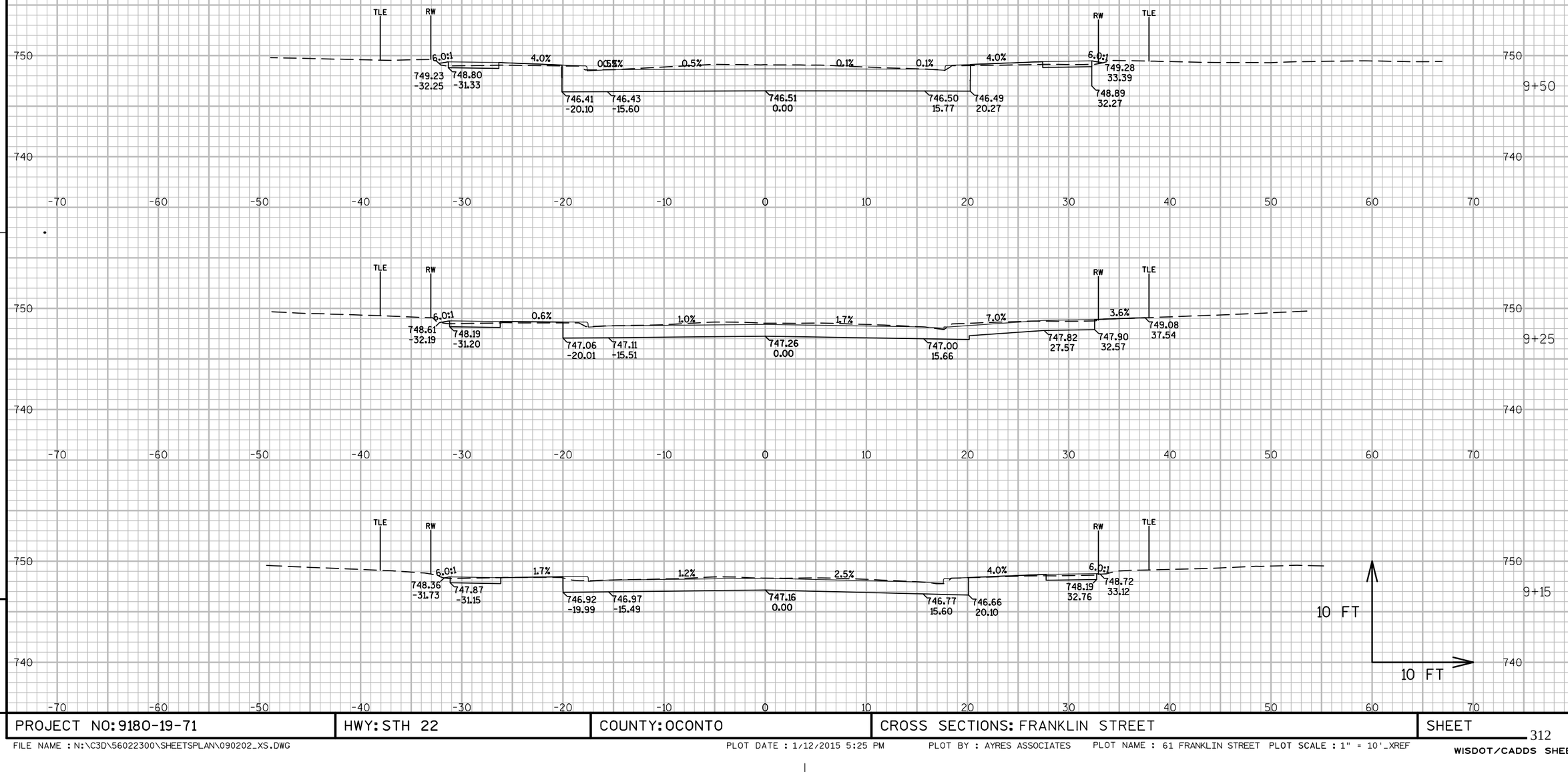
9

9

PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: MAIN STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:32 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 66 MAIN STREET PLOT SCALE : 1" = 10'_XREF

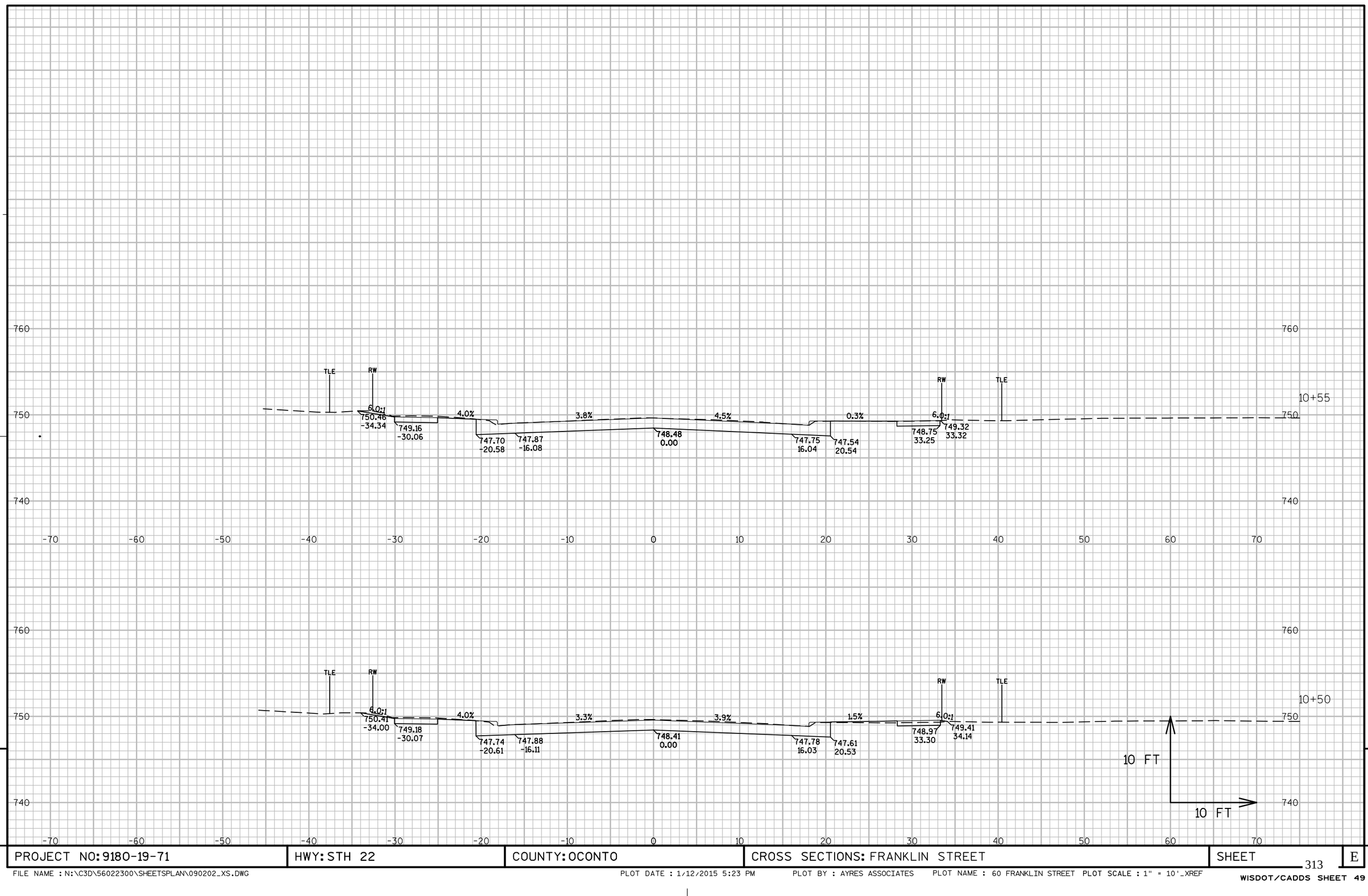
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: FRANKLIN STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:25 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 61 FRANKLIN STREET PLOT SCALE : 1" = 10'_XREF

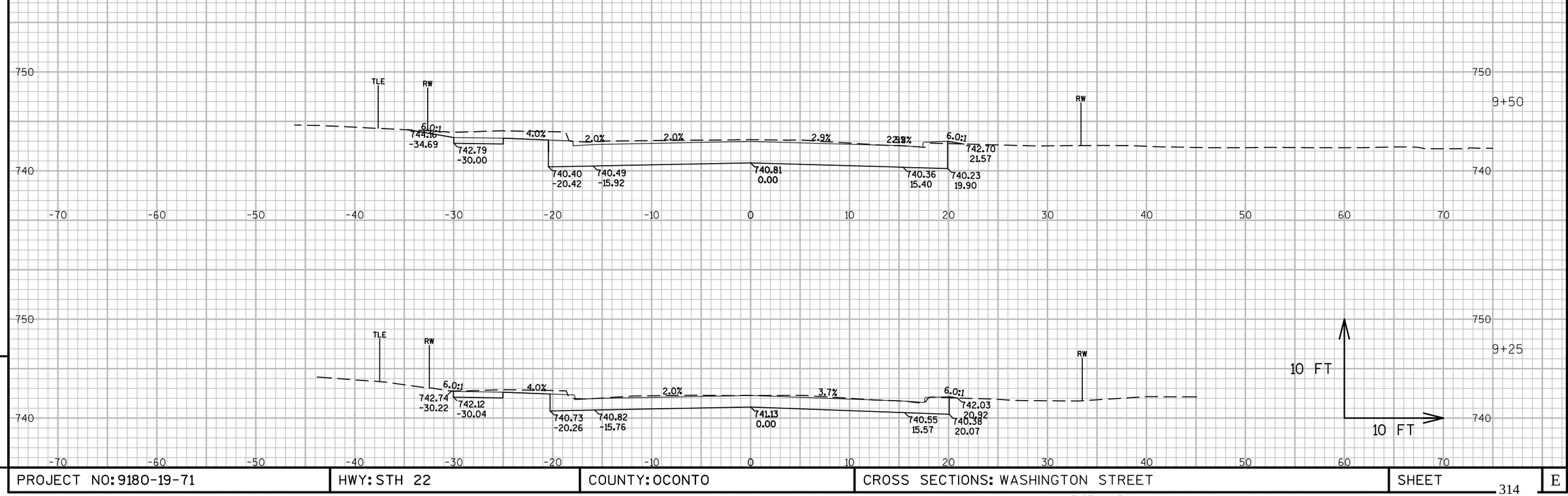
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: FRANKLIN STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 60 FRANKLIN STREET PLOT SCALE : 1" = 10'_XREF

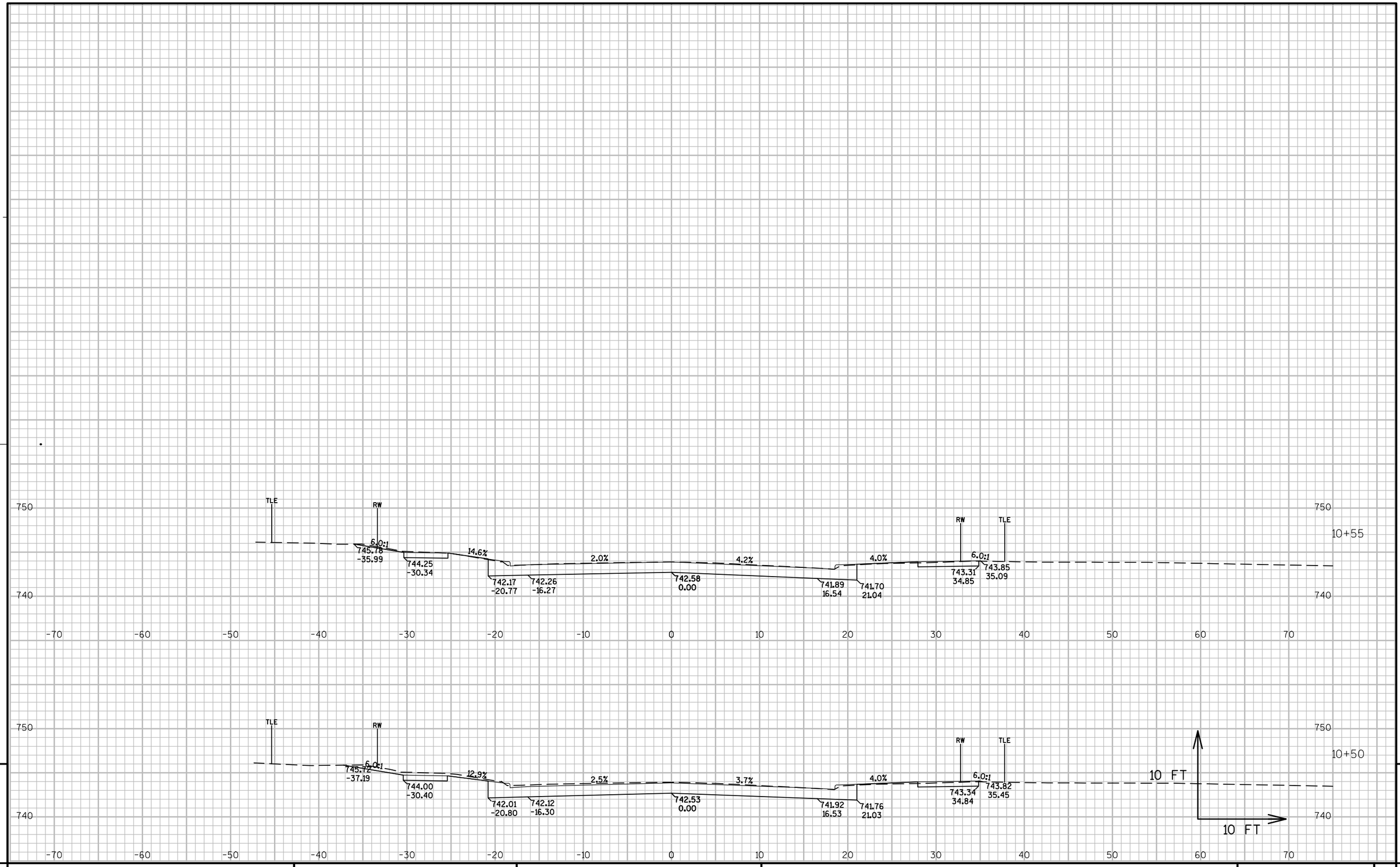
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: WASHINGTON STREET	SHEET 314	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:42 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 73 WASHINGTON STREETPLOT SCALE : 1" = 10'_XREF

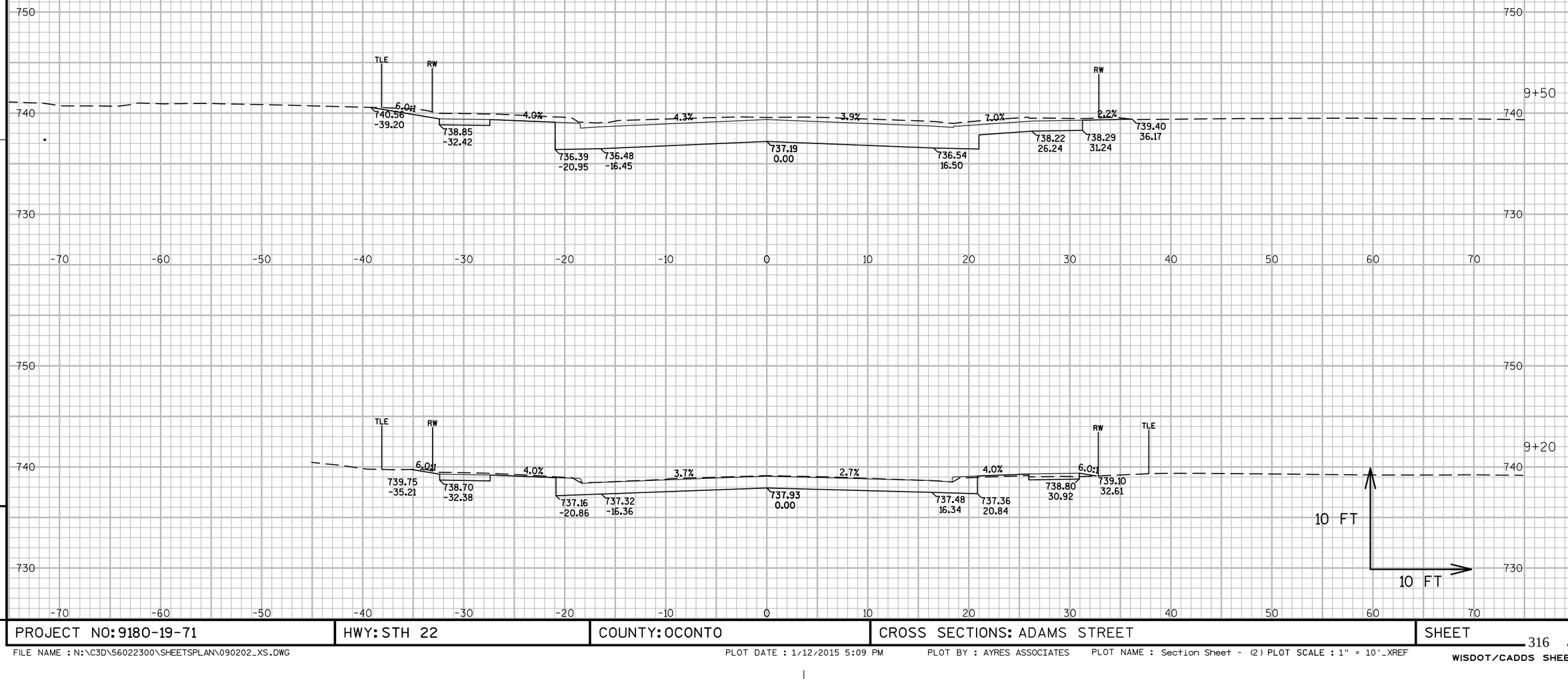
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: WASHINGTON STREET	SHEET 315	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:41 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 72 WASHINGTON STREETPLOT SCALE : 1" = 10'_XREF

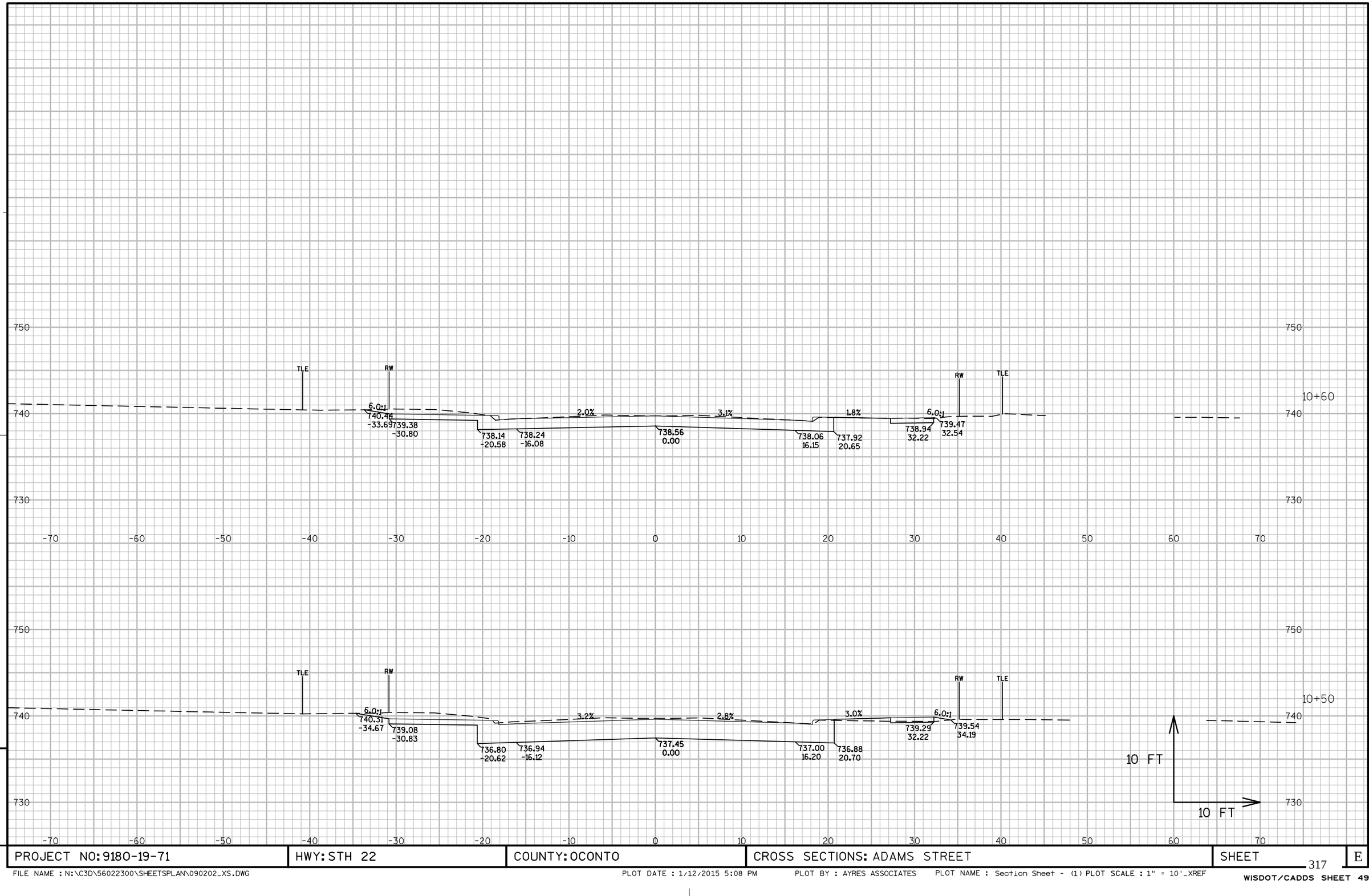
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: ADAMS STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:09 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : Section Sheet - (2) PLOT SCALE : 1" = 10'_XREF

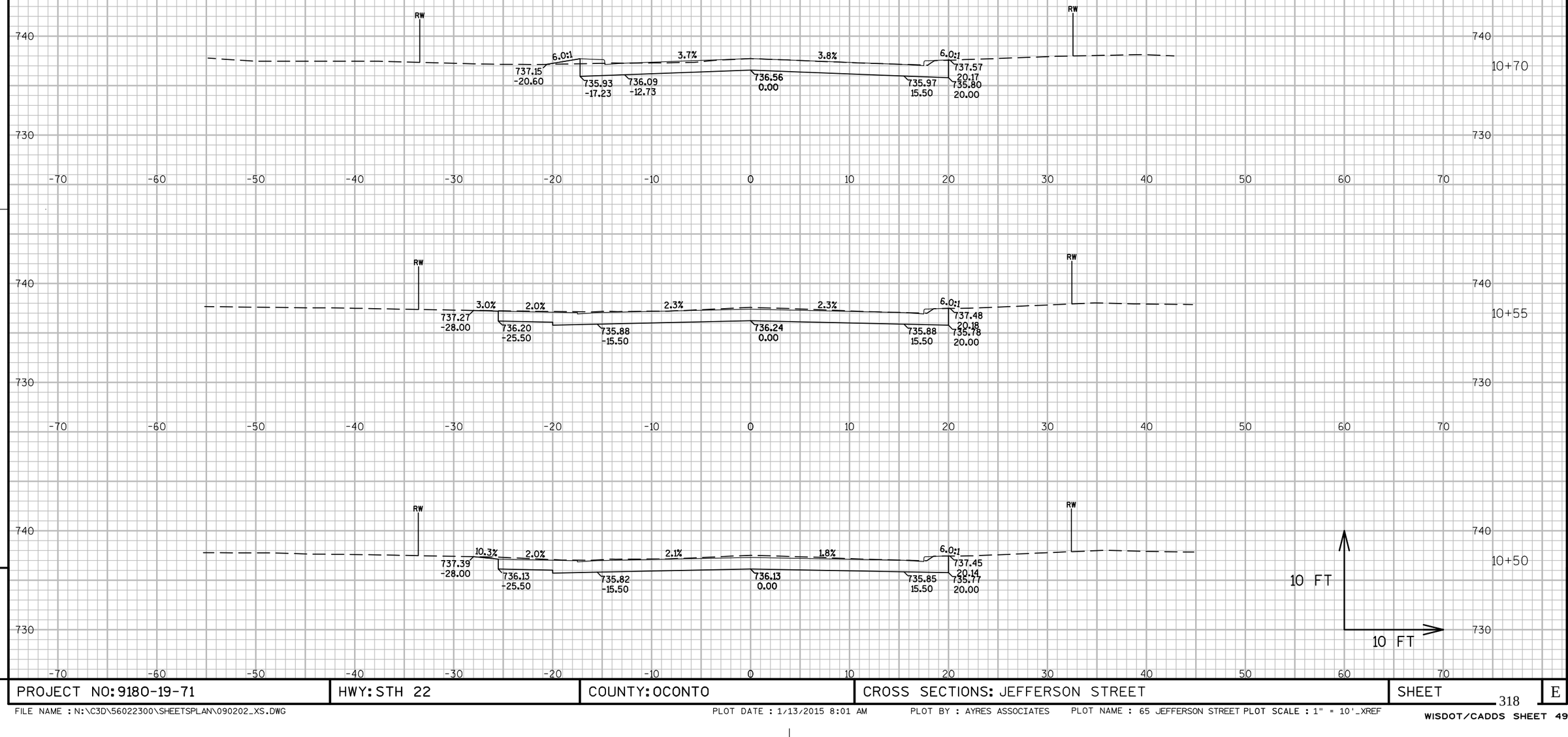
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: ADAMS STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:08 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : Section Sheet - (1) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



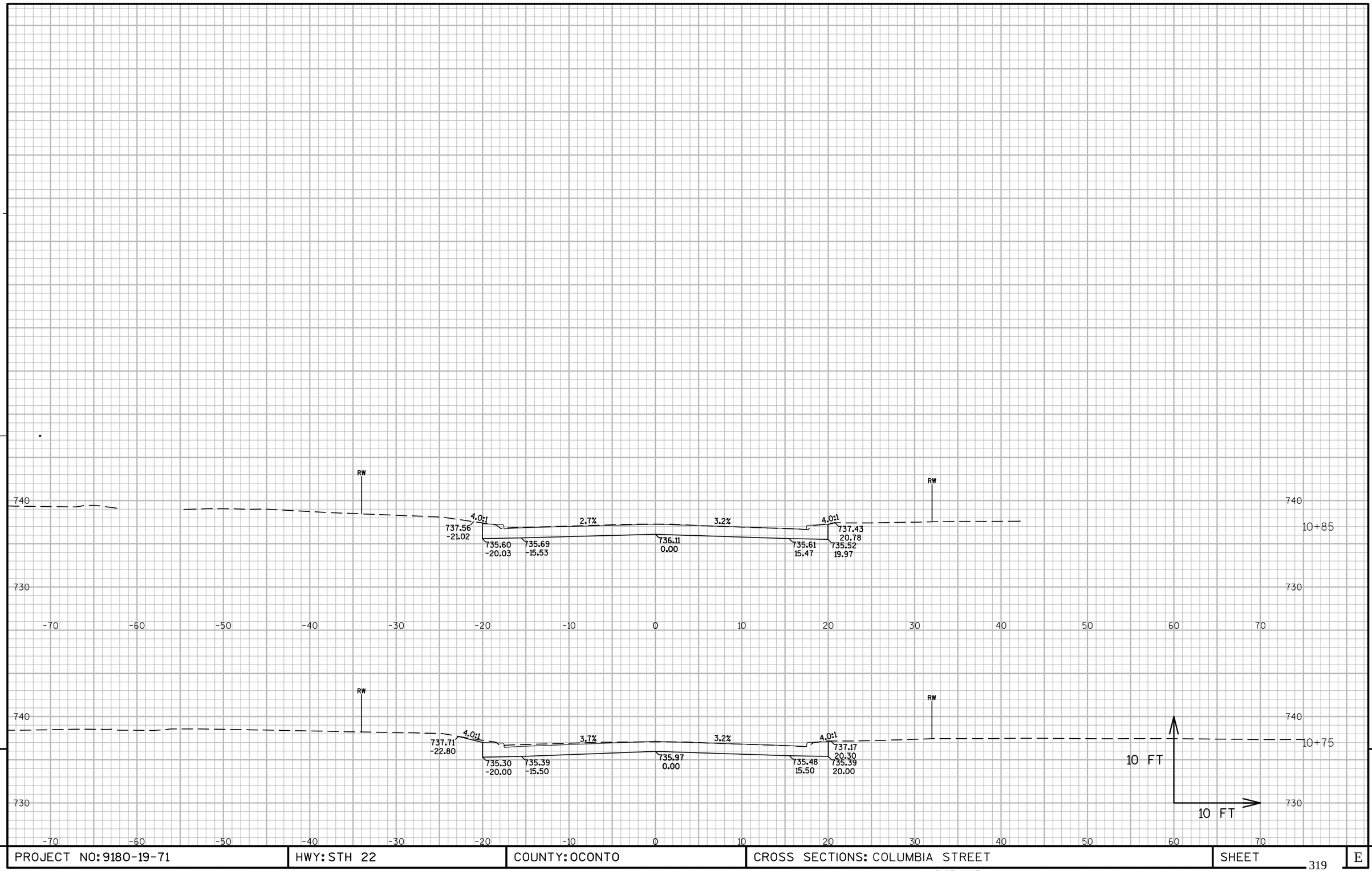
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: JEFFERSON STREET	SHEET	E

9

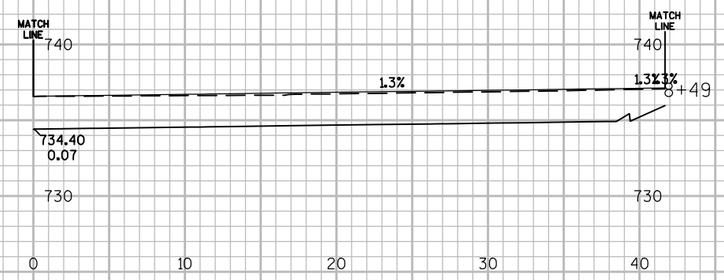
9

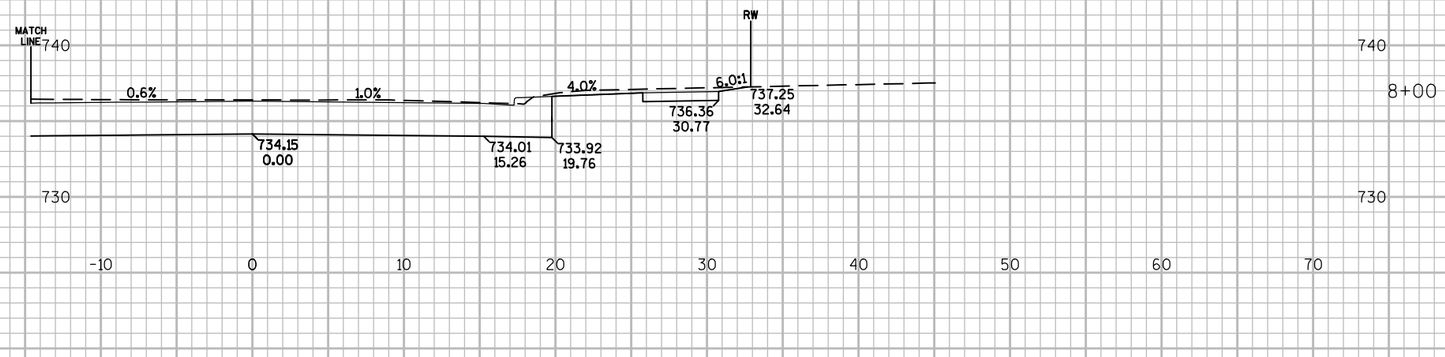
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/13/2015 8:01 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 65 JEFFERSON STREET PLOT SCALE : 1" = 10'_XREF

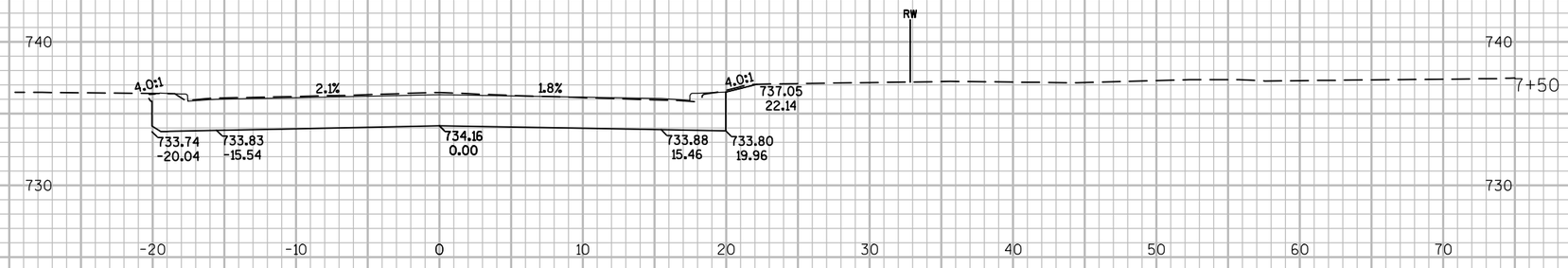
WISDOT/CADDS SHEET 49

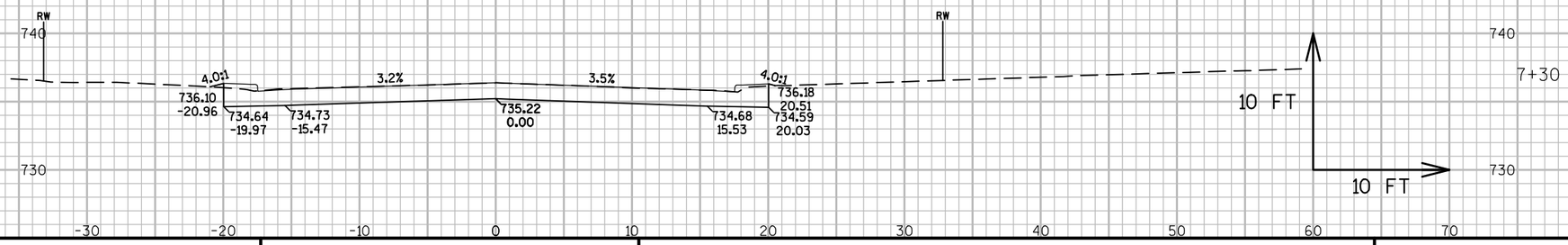


PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: COLUMBIA STREET	SHEET 319	E





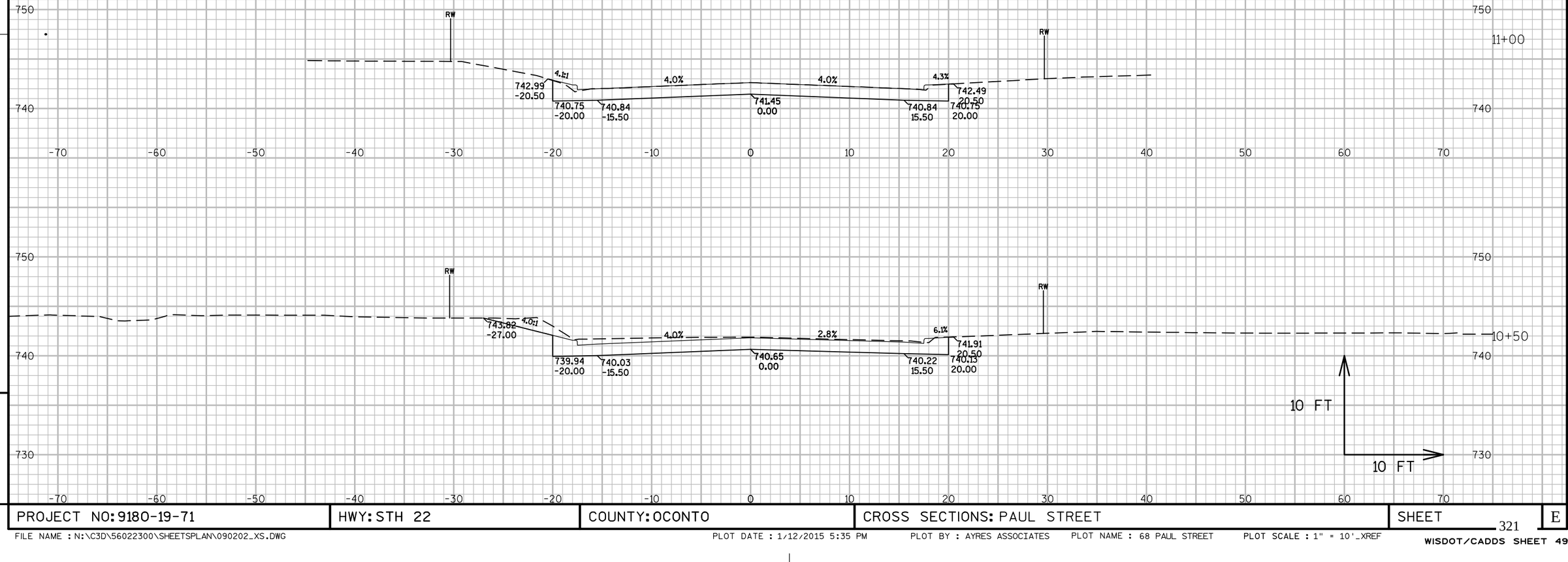




PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: S. CHESTNUT AVENUE	SHEET 320	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:38 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 70 S. CHESTNUT AVENUE PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



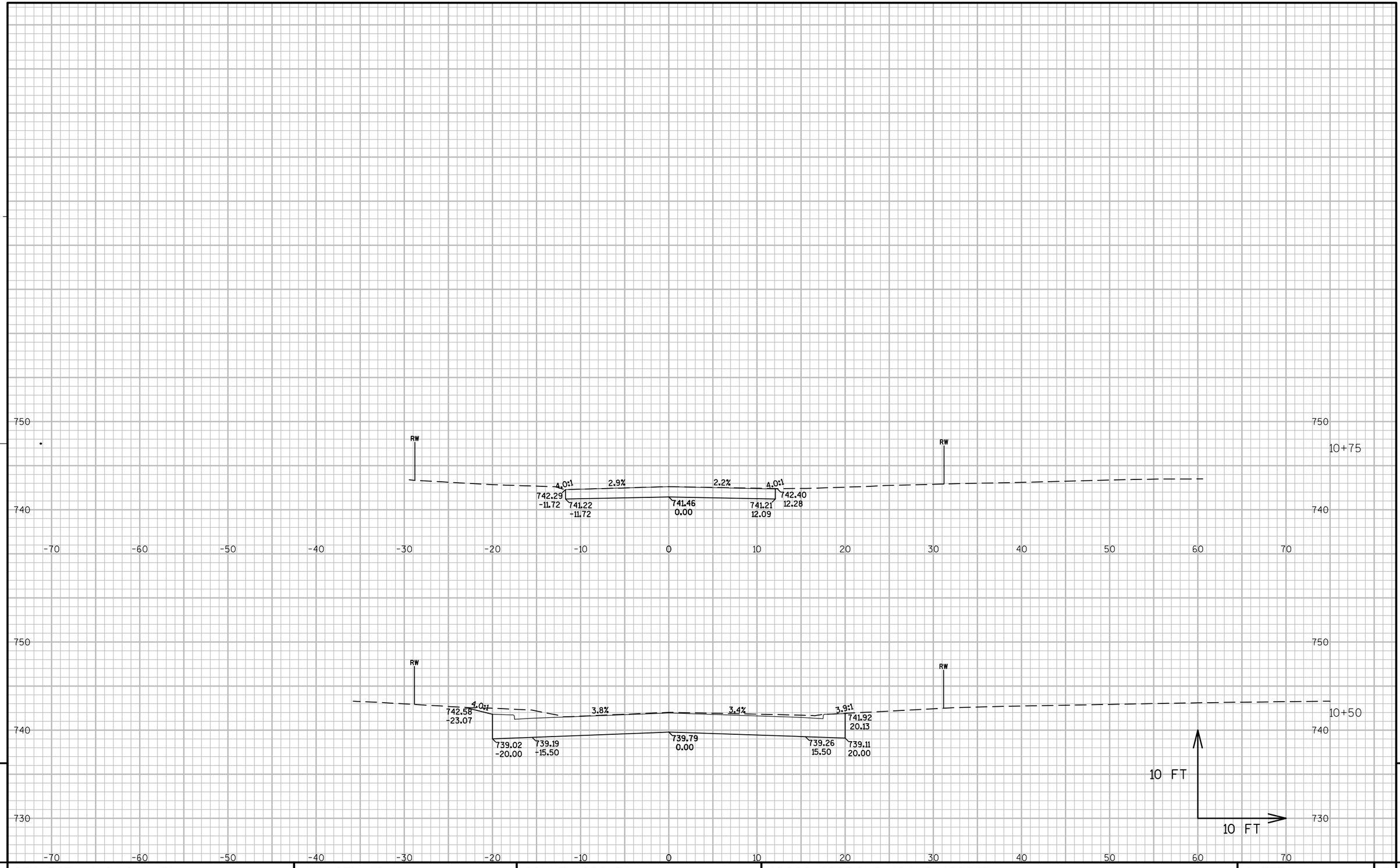
9

9

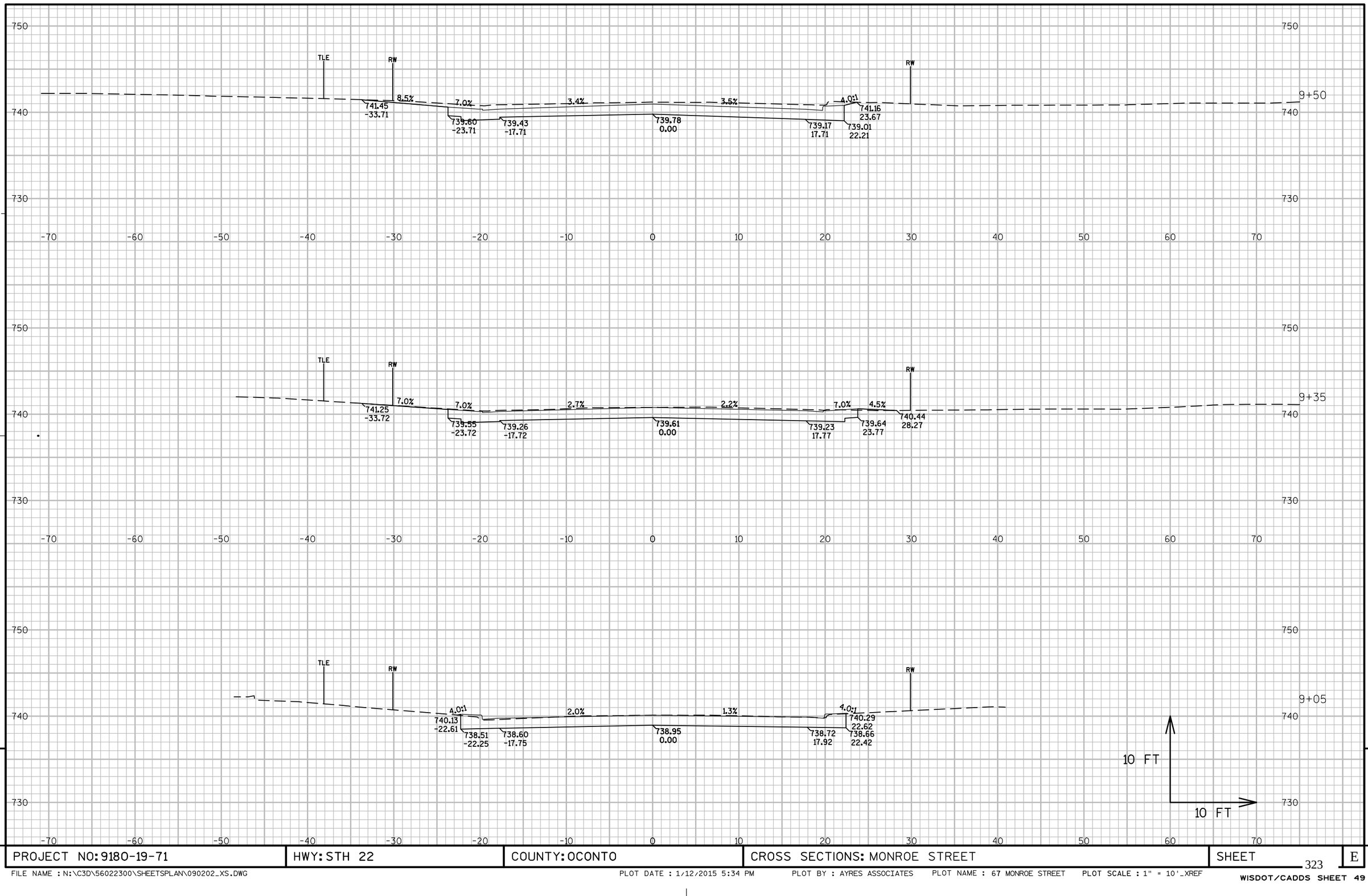
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: PAUL STREET	SHEET 321	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:35 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 68 PAUL STREET PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



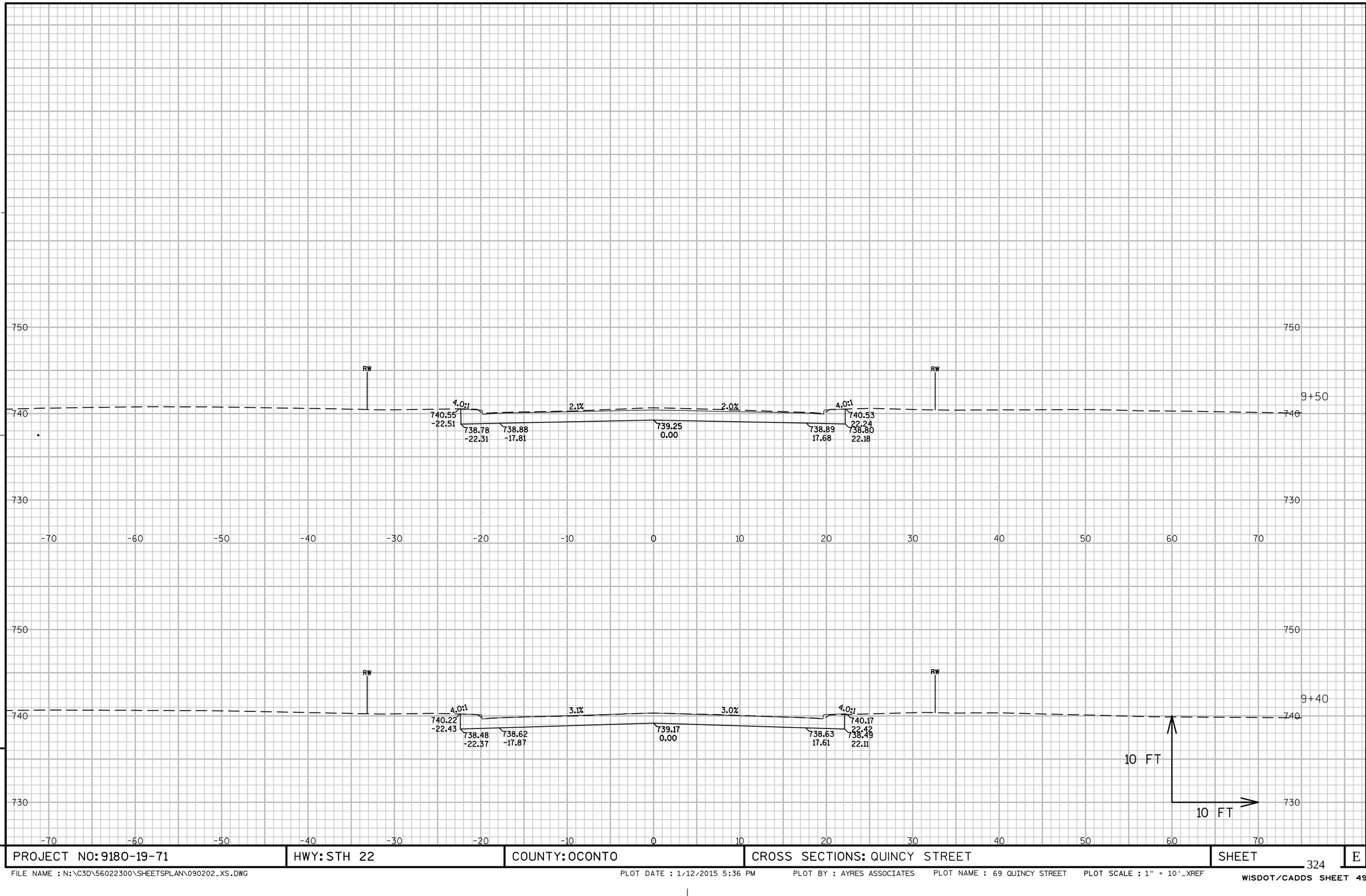
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: GROVE STREET	SHEET 322	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: MONROE STREET	SHEET	E

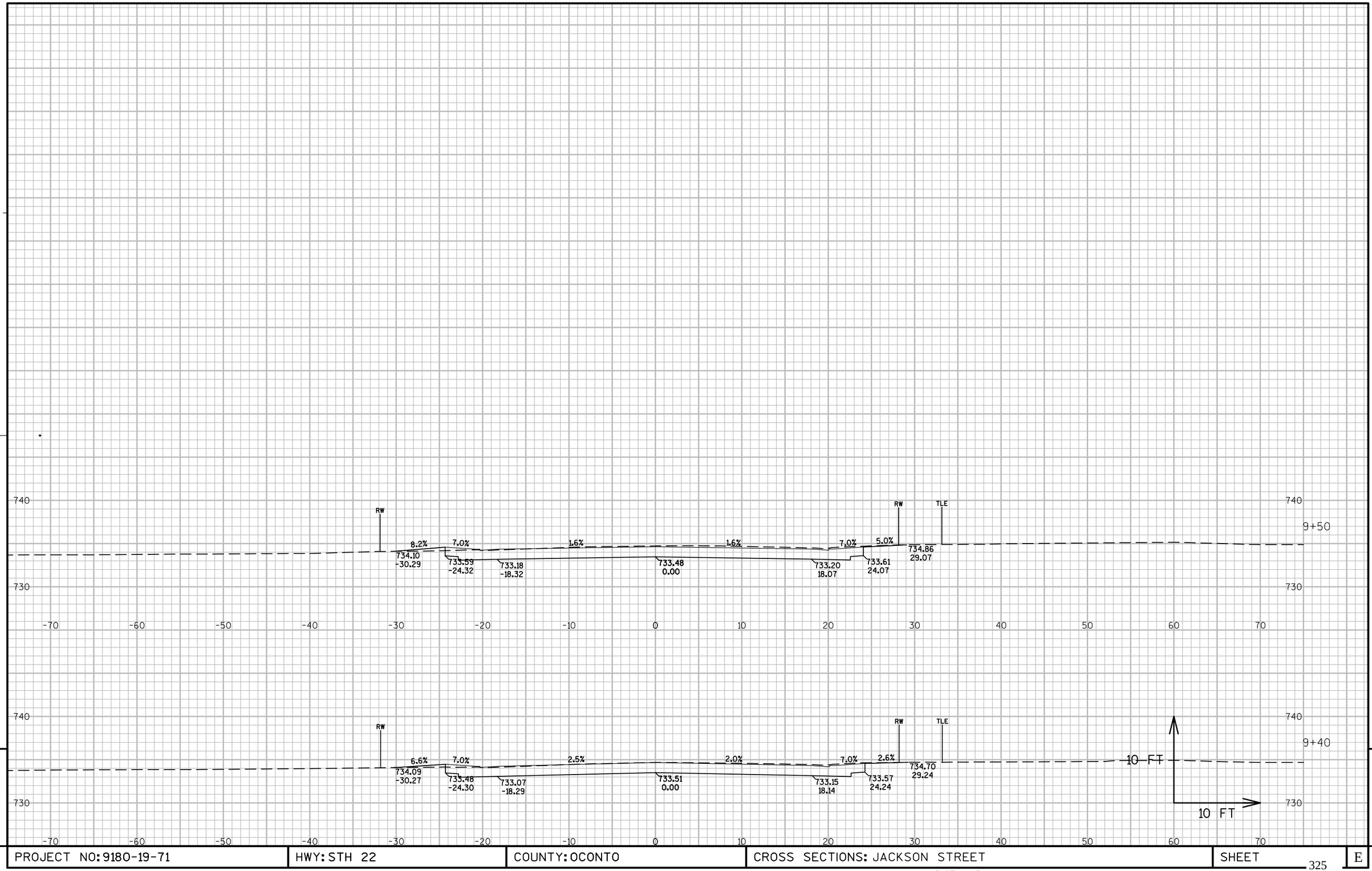
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:34 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 67 MONROE STREET PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: QUINCY STREET	SHEET	E

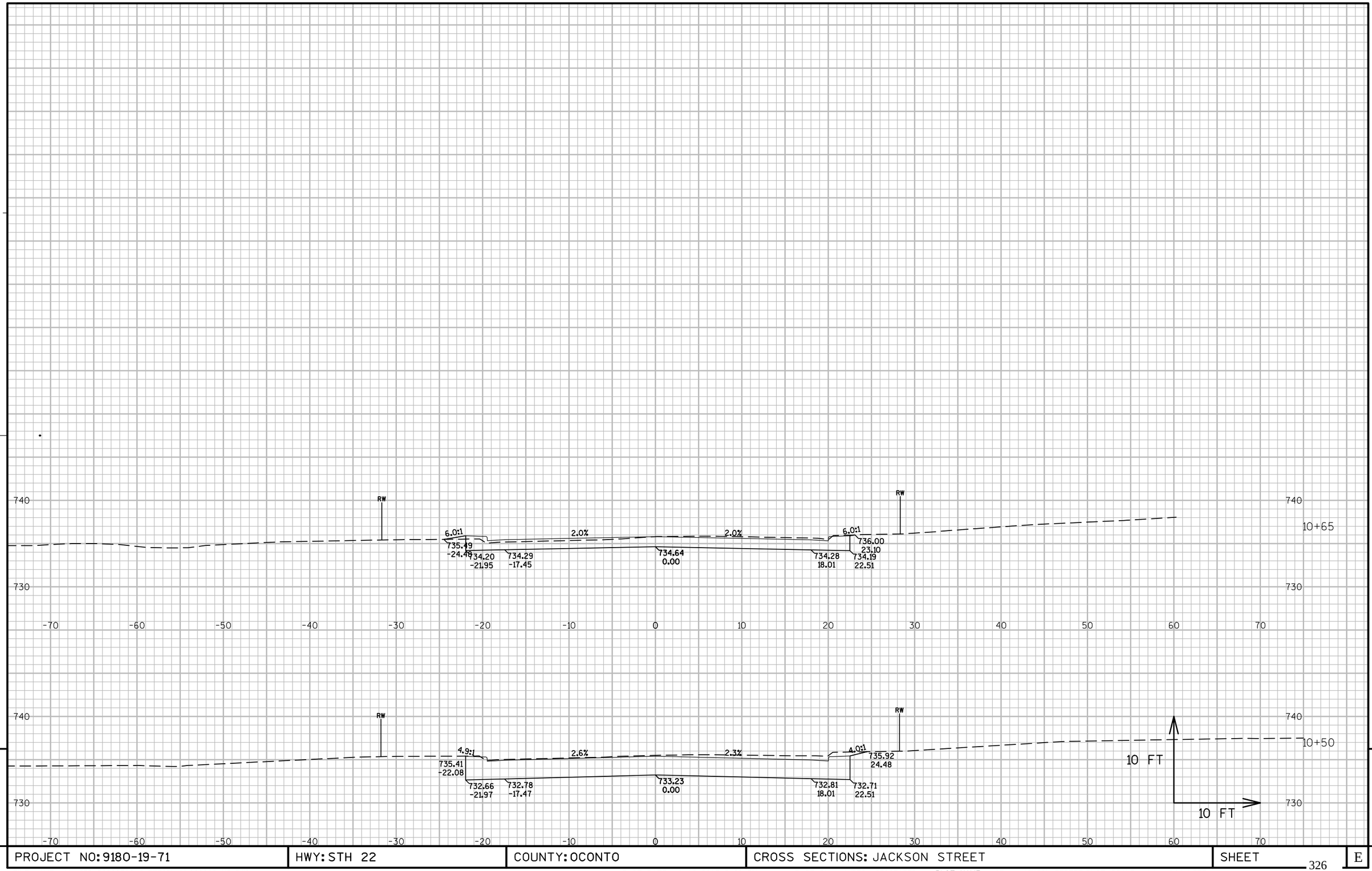
FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:36 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 69 QUINCY STREET PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: JACKSON STREET	SHEET 325	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:29 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 64 JACKSON STREET PLOT SCALE : 1" = 10'_XREF

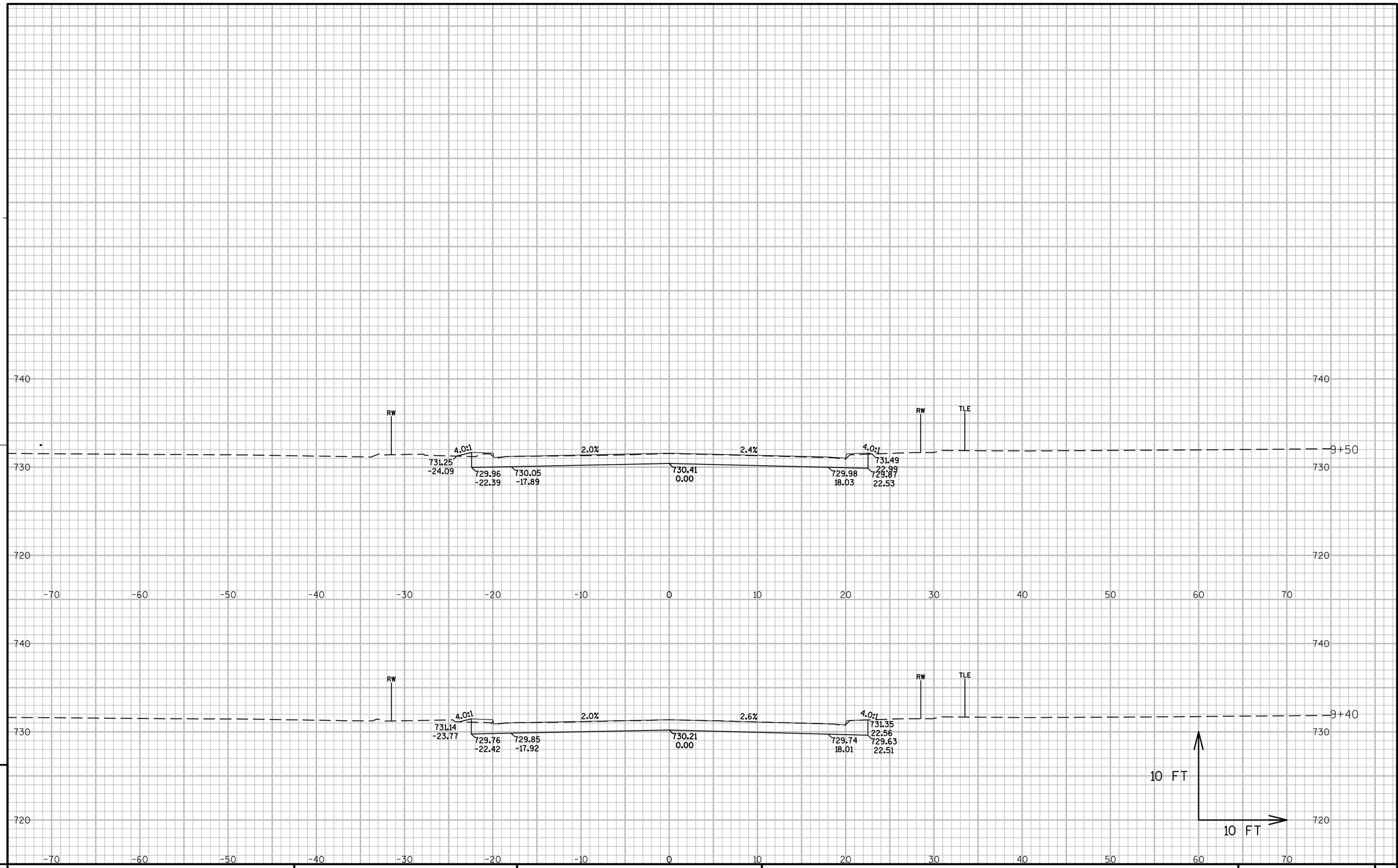
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: JACKSON STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:28 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 63 - JACKSON STREET PLOT SCALE : 1" = 10'_XREF

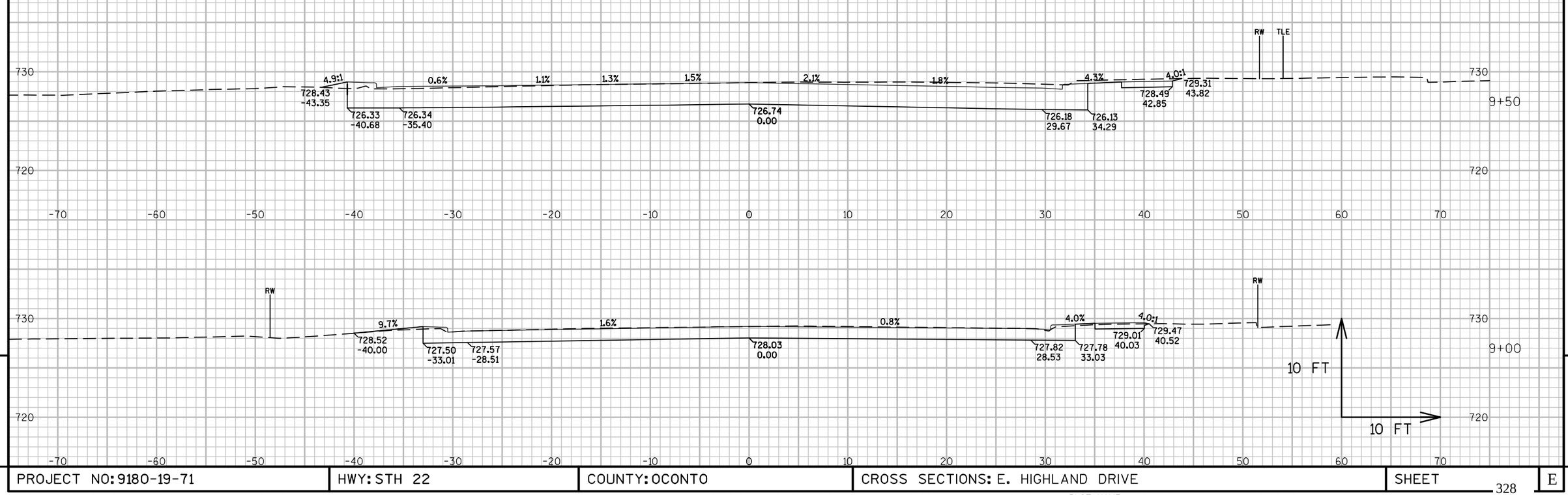
WISDOT/CADDS SHEET 49



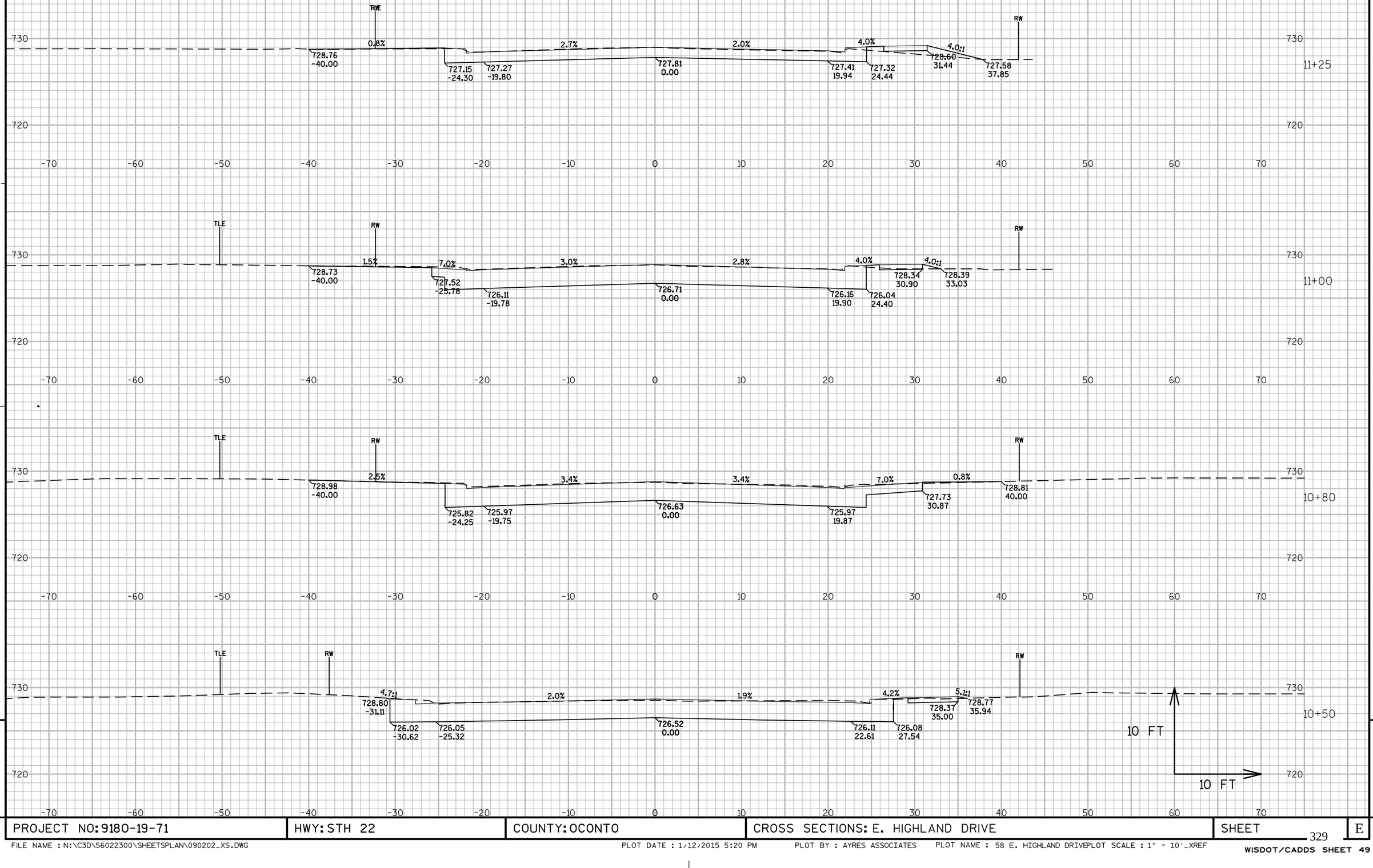
PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: VAN BUREN STREET	SHEET	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:39 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 71 VAN BUREN STREET PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: E. HIGHLAND DRIVE	SHEET 328	E



PROJECT NO: 9180-19-71	HWY: STH 22	COUNTY: OCONTO	CROSS SECTIONS: E. HIGHLAND DRIVE	SHEET 329	E

FILE NAME : N:\C3D\56022300\SHEETSPLAN\090202_XS.DWG PLOT DATE : 1/12/2015 5:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 58 E. HIGHLAND DRIVEPLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov