RHI

JUNE 2017

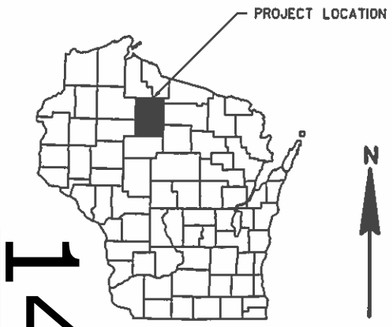
PROJECT ID: 9216-07-60

WITH:

COUNTY: PRICE

ORDER OF SHEETS

TOTAL SHEETS = 44



14

DESIGN DESIGNATION

A.A.D.T.	2017	=	450
A.A.D.T.	2037	=	640
D.H.V.	2037	=	120
D.D.		=	60/40
T.(DHV)		=	18.7%
DESIGN SPEED		=	35 MPH
ESALS		=	270,100

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9216-07-60	———	———

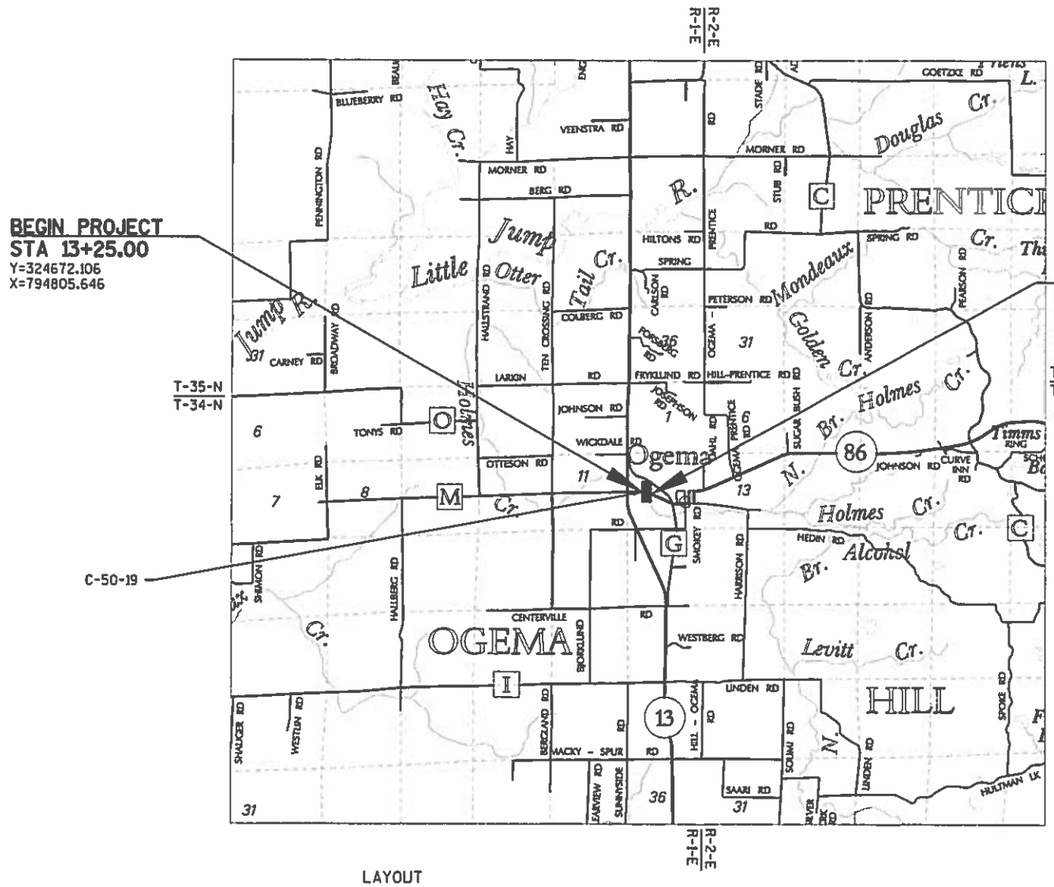
OGEMA-TOMAHAWK

CULVERT REPLACEMENT C-50-19

STH 86

PRICE COUNTY

STATE PROJECT NUMBER
9216-07-60



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM, PRICE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. VERTICAL DATUM NAVD88.

ORIGINAL PLANS PREPARED BY

OMNNI ASSOCIATES

WISCONSIN
DAVID S. GALE
E-26283
Luxemburg, Wis.
PROFESSIONAL ENGINEER
1/19/17

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OMNNI ASSOCIATES
Designer	OMNNI ASSOCIATES
Project Manager	JED P. PETERS
Regional Examiner	
Regional Supervisor	R. STAFFORD

APPROVED FOR THE DEPARTMENT

DATE: 1/19/17 (Signature)

E

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-010101-TI.DWG
92160760-010101-t1

PLOT DATE : 1/19/2017 10:16 AM PLOT BY : JAIRO MAZARIEGOS PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

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

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

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
MEDIAN STRIP -	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
TURF	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
SIDE SLOPE -			0.25			0.27			0.28			0.30
TURF			0.32			0.34			0.36			0.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 1.1 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.5 ACRES

OTHER CONTACTS

DNR LIAISON
DEPARTMENT OF NATURAL RESOURCES
810 W. MAPLE STREET
SPOONER, WI 54801
ATTN: SHAWN HASELEU
TELEPHONE: 715-635-4228
E-MAIL: SHAWN.HASELEU@WISCONSIN.GOV

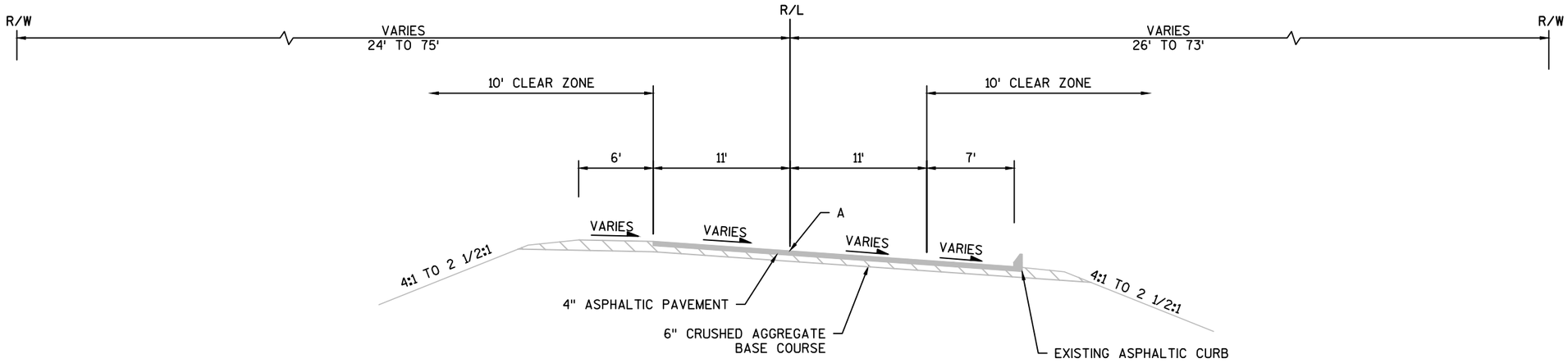
UTILITIES

SANITARY
OGEMA SANITARY DISTRICT 1
N1775 SMOKEY RD
PO BOX 665
OGEMA , WI 54459
ATTN: JAMES GALLISTEL
TELEPHONE: (715) 767-5215
CELL: (414) 651-5449
EMAIL: GALLISTL@EXECPC.COM

COMMUNICATIONS
CENTURYLINK
P.O. BOX 13
SHELDON, WI 54766
ATTN: JIM ARQUETTE
TELEPHONE: (715) 452-5168
CELL: (715) 563-8295
EMAIL: jim.arquette@centerylink.com

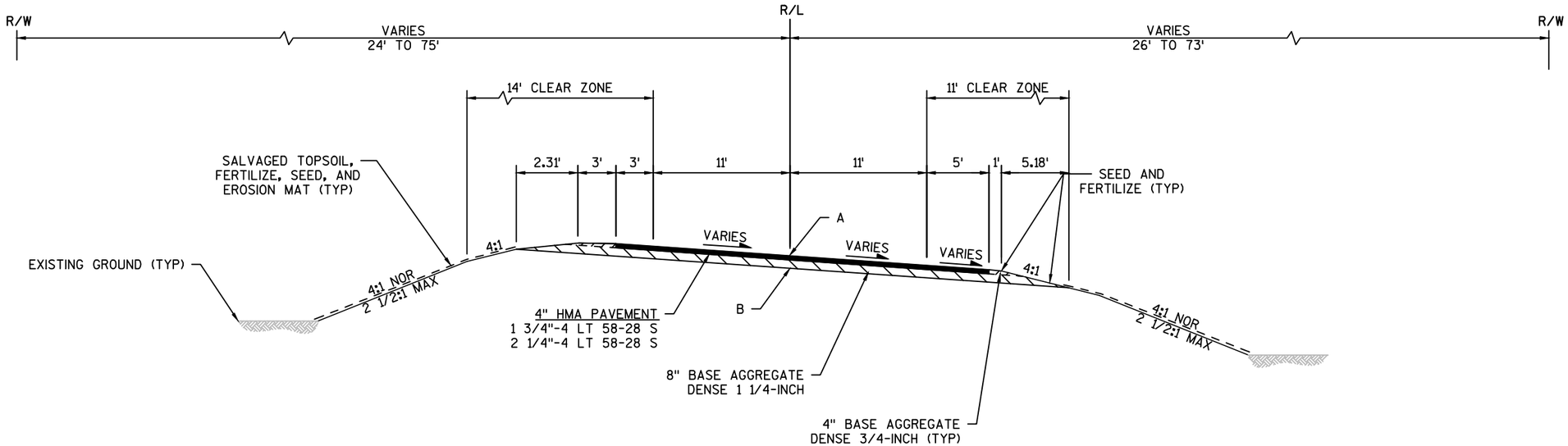
DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

ORDER OF SECTION 2 SHEETS



TYPICAL EXISTING SECTION STH 86

STA 13+25 TO STA 15+50



TYPICAL FINISHED SECTION STH 86

STA 13+25 TO STA 15+50

NOTE A; POINT REFERRED TO ON PROFILE.
NOTE B; POINT REFERRED TO ON CROSS SECTIONS.

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	TYPICAL SECTIONS	SHEET 3	E

2

0.2 MILES TO STH 13

0.4 MILES TO CTH G

C-50-19
STA 14+08
PROPOSED 14'X6'
CAST-IN-PLACE OR
PRECAST CONCRETE
BOX CULVERTS
AND ENDWALLS

TEMPORARY
LIMITED EASEMENT

SLOPE INTERCEPT (TYP)

BEGIN PROJECT
STA 13+25.00
Y=324,672.106
X=794,805.646

EXISTING R/W

N88°59'52.82"E

S66°44'08.43"E

12+00

13+00

14+00

15+00

16+00

17+00

STH 86

R/W

WOODS

ASPH
PE

18"

24"

RBS

TV

SAN

T

HS

CEMETERY

**CEMETERY
DO NOT EXCAVATE WEST OF
DRIVE STA 12+60 RT.**

**NO EXCAVATION
AREA**

C-50-9
REMOVE 13.5'x9.5'x86' PASP
AND CONCRETE ENDWALLS

HOLMES
CREEK

TEMPORARY
LIMITED EASEMENT

END PROJECT
STA 15+50.00
Y=324,638.143
X=795,026.934

POST

N

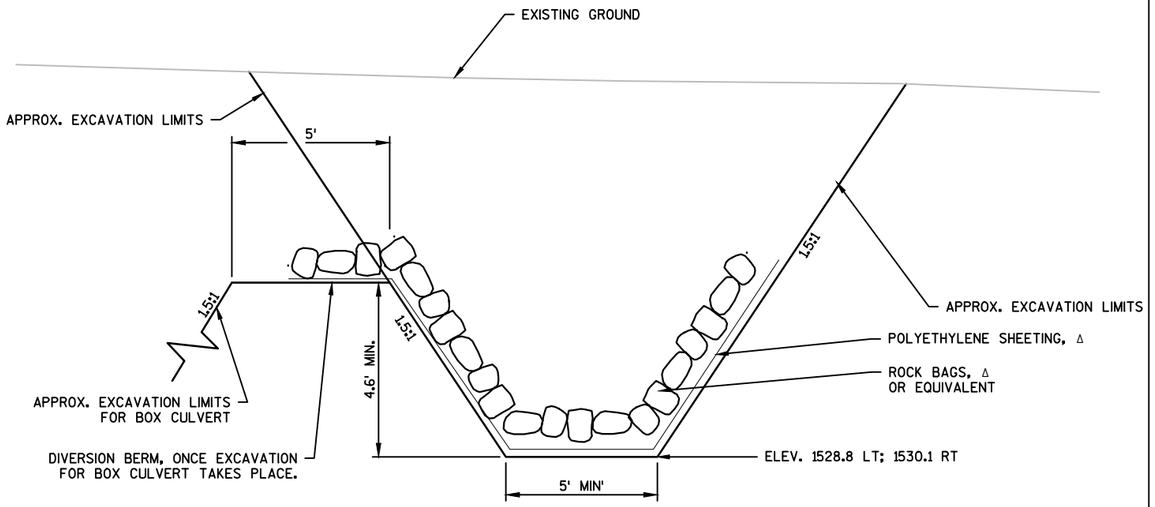
SCALE: 0 20' 40'

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	PROJECT OVERVIEW	SHEET 4 E

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-020201-PO.DWG
LAYOUT NAME - 92160760-021201-pd

PLOT DATE : 1/19/2017 4:41 PM PLOT BY : JAIRO MAZARIEGOS PLOT NAME : PLOT SCALE : **********

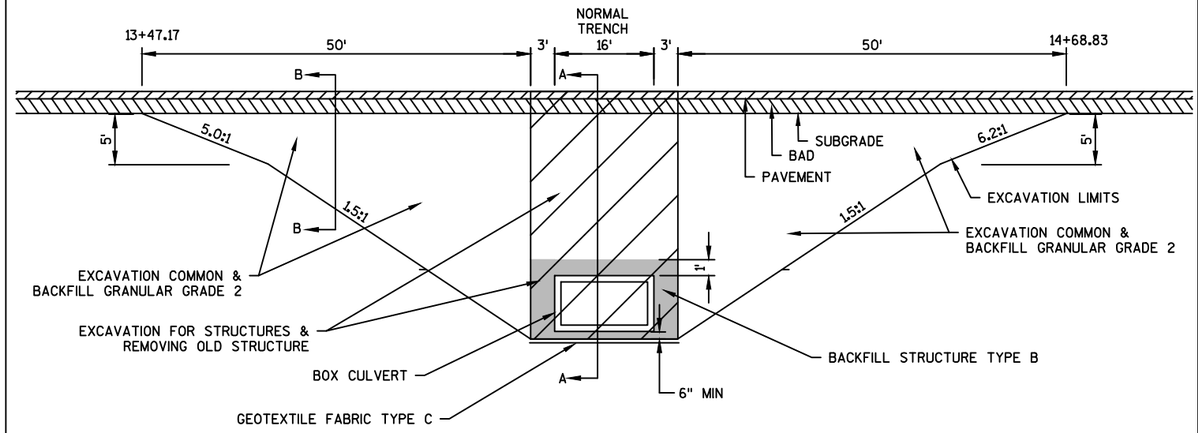
WISDOT/CADDS SHEET 42

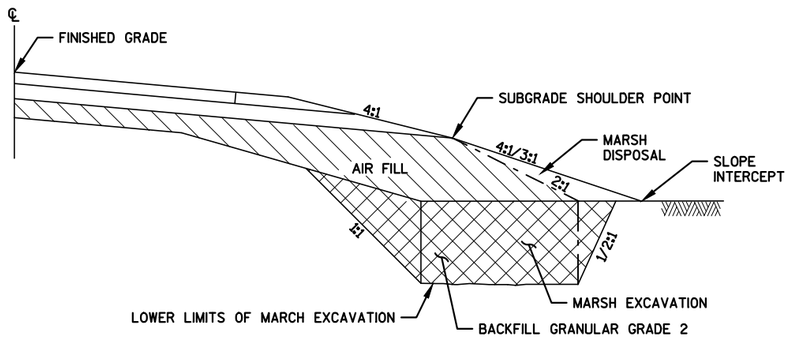


TEMPORARY WATER DIVERSION CHANNEL

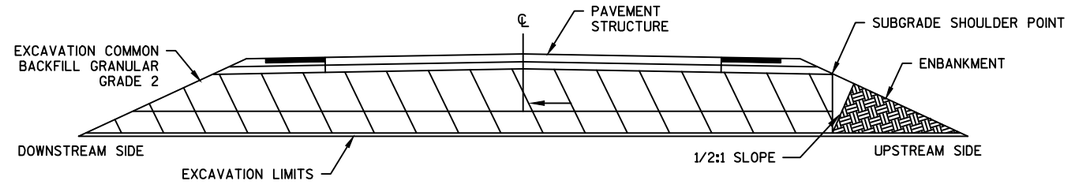
Δ INCIDENTAL TO TEMPORARY WATER DIVERSION

NOTE: EXCEPT FOR MARSH EXCAVATION AND MARSH BACKFILL, EXCAVATION AND BACKFILL FOR THE DIVERSION CHANNEL IS INCLUDED IN THE TEMPORARY WATER DIVERSION ITEM.

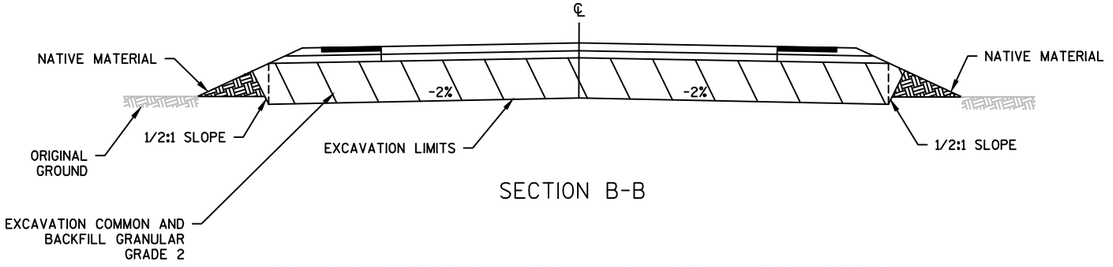




TYPICAL MARSH EXCAVATION



SECTION A-A



SECTION B-B

BOX CULVERT EXCAVATION AND INSTALLATION DETAIL

STA 14+08

2

CURVE A
PI STA = 14+66.89
Y = 324674.588
X = 794947.519
DELTA = 24°15'59"
D = 8°48'53"
T = 139.74
L = 275.29
R = 650.00
PC STA = 13+27.15
PT STA = 16+02.45
SE=5.7%

NEW R/W
C-50-19
STA 14+08
PROPOSED 14'X6'
CAST-IN-PLACE OR
PRECAST CONCRETE
BOX CULVERT
AND ENDWALL
TEMPORARY
LIMITED EASEMENT
WETLAND LIMITS
CP 900
Y = 324689.311
X = 794794.005
SLOPE INTERCEPT (TYP)
TEMPORARY
WATER
DIVERSION
REMOVE EXISTING
BEAM GUARD
SAWCUT AND
MATCH EXISTING
BEGIN PROJECT
STA 13+25.00
Y=324,672.106
X=794,805.646
SAWCUT AND
MATCH EXISTING
EXISTING R/W
PC: 13+27.15
CURVE A
STH 86
PT: 16+02.45
N88°59'52.82"E
S66°44'08.43"E
BM1
REMOVE EXISTING
BEAM GUARD
CP 901
Y = 324623.070
X = 795018.171
BM2
END PROJECT
STA 15+50.00
Y=324,638.143
X=795,026.934
CP 902
Y = 324577.666
X = 795201.664
CEMETERY PLOT
CEMETERY
CEMETERY
DO NOT EXCAVATE WEST OF
DRIVE STA 12+60 RT.
C-50-9
REMOVE 13.5'x9.5'x86' PASP
AND CONCRETE ENDWALLS
R/W
HOLMES
CREEK
NEW R/W
NO EXCAVATION
AREA
TEMPORARY
LIMITED EASEMENT
WETLAND LIMITS
WOODS
ASPH
PE
RBS
SAN
TV
POST
12+00
13+00
14+00
15+00
16+00
17+00
SCALE: 0 20' 40'
N

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	CONSTRUCTION DETAIL	SHEET 6 E

2

N

HOLMES CREEK

TLE

R/W

REMOVE C-50-9
13.5'X9.5'X86' PASP
AND CONCRETE
ENDWALLS

PC: 13+27.15

PT: 16+02.45

WOODS

EXISTING R/W

ASPH
PE

18"

24"

SAN

12+00

13+00

14+00

15+00

16+00

17+00

STH 86

LEGEND

######	EROSION MAT CLASS I, TYPE B URBAN
	SILT FENCE
	RIP RAP
	SLOPE INTERCEPT
	SURFACE WATER FLOW
	WETLANDS
	PERMITTED WETLAND IMPACTS (PERMANENT)
	PERMITTED WETLAND IMPACTS (TEMPORARY)

POTENTIAL LOCATION FOR
TEMPORARY WATER DIVERSION

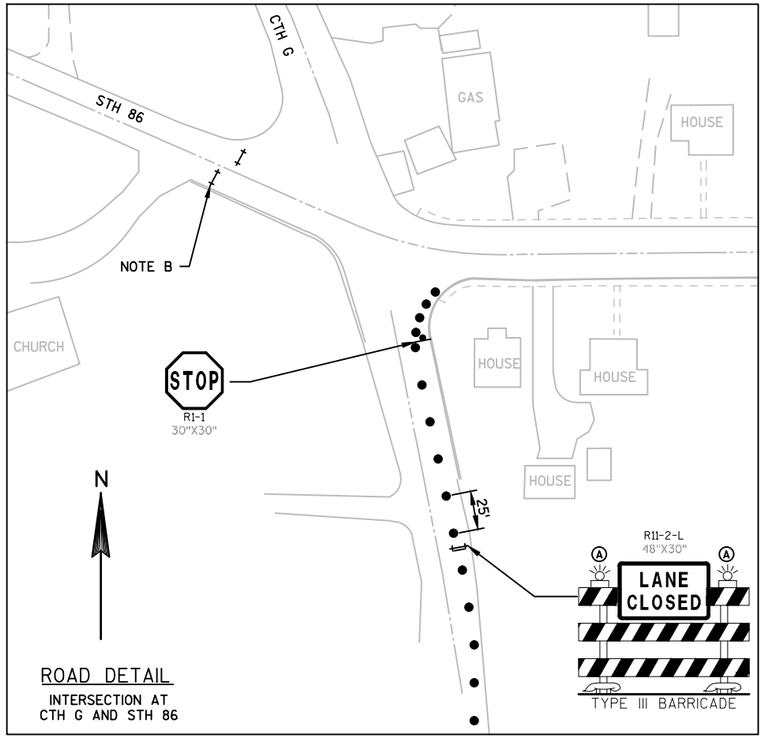
Q_2 = 130 CFS
ELEV. Q_2 =1532.38
Q_5 = 205 CFS
WATER DEPTH IN CHANNEL = 4.6'
V_5 = 3.9' IN CHANNEL
SEE TEMPORARY WATER DIVERSION CONSTRUCTION DETAIL
FOR CHANNEL CONFIGURATION

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	EROSION CONTROL PLAN	SHEET 7	E

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-022001-EC.DWG
LAYOUT NAME - 92160760-022001_EC

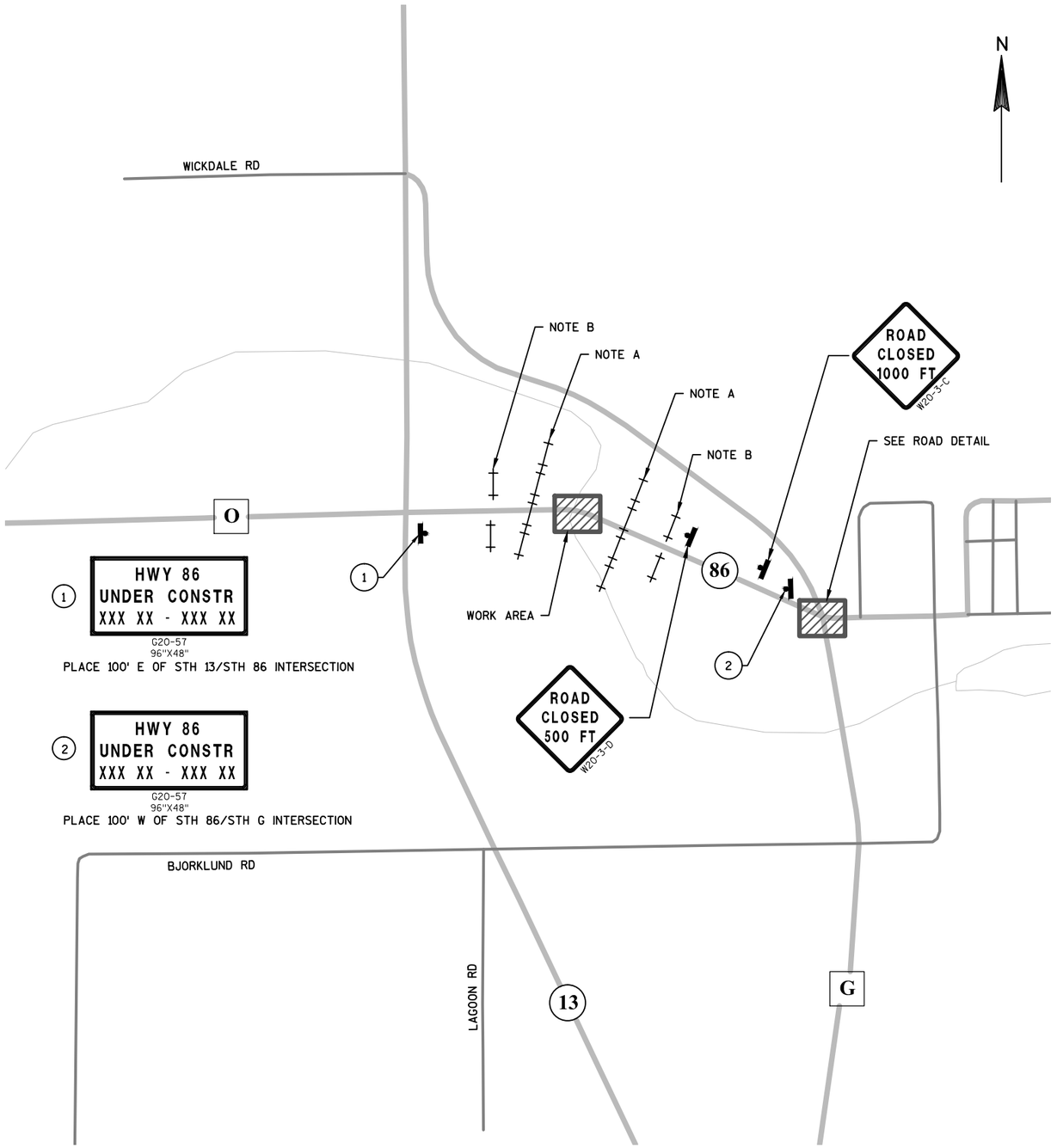
PLOT DATE : 1/13/2017 10:19 AM PLOT BY : JAIRO MAZARIEGOS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



ROAD DETAIL

INTERSECTION AT
CTH G AND STH 86



TRAFFIC CONTROL GENERAL NOTES

1. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.
3. ALL SIGNS SHALL BE 48" x 48" UNLESS OTHERWISE NOTED.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
5. FIXED MESSAGE SIGNS SHALL BE PLACED ONE WEEK IN ADVANCE OF INITIAL LANE CLOSURE.
6. SEE ADDITIONAL TRAFFIC CONTROL DETAIL SHEETS, DETOUR DETAIL SHEETS AND STANDARD DETAIL DRAWINGS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.

LEGEND

- (00) SIGN NUMBER
- (XX) NOTE LETTER
- POST MOUNTED SIGN
- TYPE III BARRICADE
- WORK AREA

NOTE A: USE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL D.

NOTE B: USE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B.

SEE DETOUR PLAN FOR ADDITIONAL SIGNING AND INFORMATION.

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	TRAFFIC CONTROL PLAN	SHEET 8	E

DETOUR ROUTE OVERVIEW

- STH 86 EB; STH 13 NB TO CTH G SOUTH
- STH 86 WB; CTH G NORTH TO STH 13 SB
- ON STH 13 FROM SOUTH; CTH G NORTH
- ON STH 13 FROM NORTH; CTH G SOUTH

LEGEND

- DETOUR ROUTE
- (00) SIGN NUMBER
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- POST MOUNTED SIGN
- TYPE III BARRICADE
- WORK AREA

(1) EAST 86 — M3-2 24"X12", M1-6 24"X24"; DETOUR AHEAD W20-2-A

(2) DETOUR EAST 86 ↰ — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M05-1L 21"X21"

(3) DETOUR EAST 86 ← — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M06-1 21"X21"

(4) ROAD CLOSED AHEAD W20-3-A

(5) DETOUR AHEAD W20-2-A

(6) DETOUR EAST 86 ↰ — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M05-1L 21"X21"

(7) ROAD CLOSED 500 FT W20-3-D

(8) DETOUR EAST 86 ← — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M06-1 21"X21"

(9) M4-9L 30"X24" — DETOUR ← — TYPE III BARRICADE

(10) R11-3-B 60"X30" — BRIDGE OUT 0.2MILES AHEAD LOCAL TRAFFIC ONLY — TYPE III BARRICADE

(11) DETOUR EAST 86 → — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M06-1 21"X21"

(12) DETOUR EAST 86 ↱ — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M05-1R 21"X21"

(13) DETOUR EAST 86 → — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M06-1 21"X21"

(14) DETOUR EAST 86 ↱ — M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", M05-1R 21"X21"

(15) EAST 86 — M3-2 24"X12", M1-6 24"X24"; DETOUR AHEAD W20-2-A

(16) DETOUR WEST 86 ↰ — M4-8 24"X12", M3-4 24"X12", M1-6 24"X24", M05-1L 21"X21"

(17) DETOUR WEST 86 ← — M4-8 24"X12", M3-4 24"X12", M1-6 24"X24", M06-1 21"X21"

(18) END DETOUR 86 — M4-8A 24"X18", M1-6 24"X24"

(19) EAST 86 ↱ COVER — M3-2 24"X12", M1-6 24"X24", M05-1R 21"X21"

(20) FROM PRENTICE ↑ OGEMA → TO PRENTICE ↑ COVER

(21) TIMM'S HILL COUNTY PARK COVER

(22) EAST 86 → COVER — M3-2 24"X12", M1-6 24"X24", M06-1 21"X21"

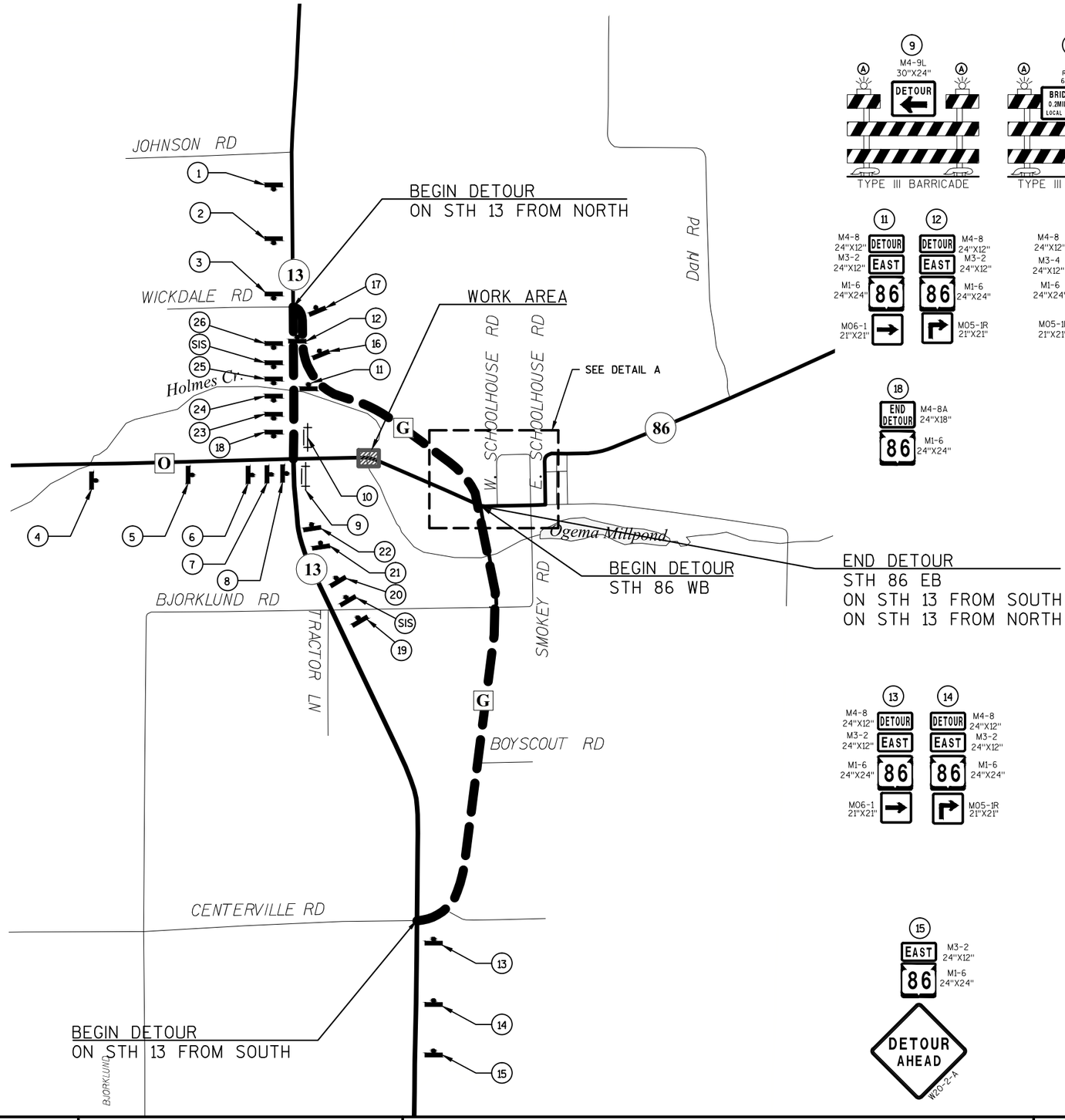
(23) EAST 86 ← COVER — M3-2 24"X12", M1-6 24"X24", M06-1 21"X21"

(24) TIMM'S HILL COUNTY PARK COVER

(25) FROM PRENTICE ↑ OGEMA ← TO PRENTICE ↑ COVER

(26) EAST 86 ↰ COVER — M3-2 24"X12", M1-6 24"X24", M05-1L 21"X21"

(SIS) CONTACT INTERSTATE LOGOS AT 844-496-9163 TO HAVE SIGN COVERED



PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	DETOUR PLAN	SHEET 9	E

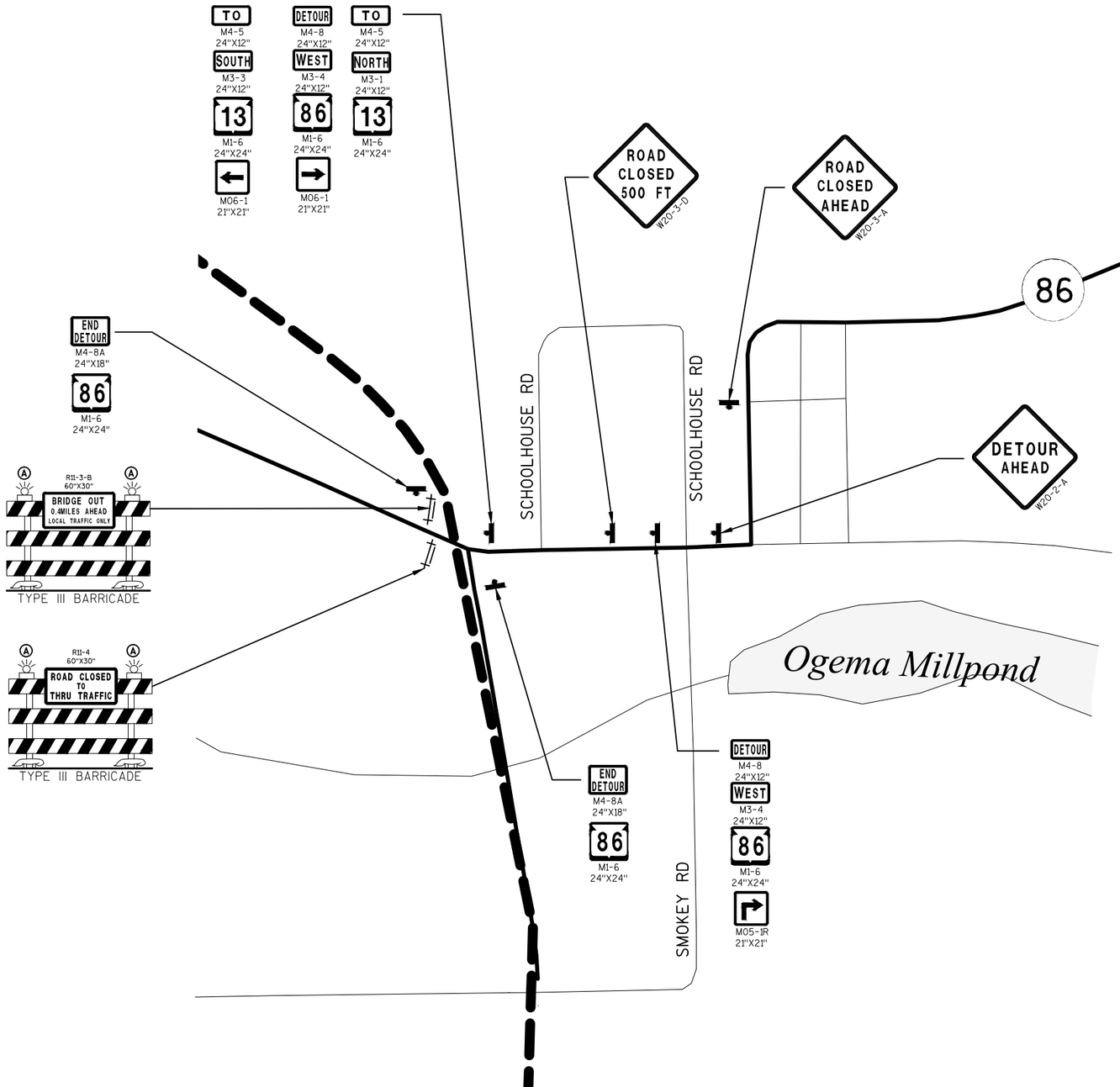
DETOUR ROUTE OVERVIEW

- STH 86 EB; STH 13 NB TO CTH G SOUTH
- STH 86 WB; CTH G NORTH TO STH 13 SB
- ON STH 13 FROM SOUTH; CTH G NORTH
- ON STH 13 FROM NORTH; CTH G SOUTH

N

LEGEND

- DETOUR ROUTE
- (00) SIGN NUMBER
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- POST MOUNTED SIGN
- TYPE III BARRICADE
- WORK AREA



PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	DETOUR PLAN DETAIL A	SHEET 10	E

Estimate Of Quantities

9216-07-60

Line	Item	Item Description	Unit	Total	Qty
0010	201.0205	Grubbing	STA	1.000	1.000
0020	203.0200	Removing Old Structure (station) 01. 14+00	LS	1.000	1.000
0030	204.0165	Removing Guardrail	LF	425.000	425.000
0040	205.0100	Excavation Common	CY	1,588.000	1,588.000
0050	205.0400	Excavation Marsh	CY	120.000	120.000
0060	206.2000	Excavation for Structures Culverts (structure) 01. C-50-19	LS	1.000	1.000
0070	209.2500	Backfill Granular Grade 2	TON	2,840.000	2,840.000
0080	210.2500	Backfill Structure Type B	TON	710.000	710.000
0090	213.0100	Finishing Roadway (project) 01. 9216-07-60	EACH	1.000	1.000
0100	305.0110	Base Aggregate Dense 3/4-Inch	TON	30.000	30.000
0110	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	465.000	465.000
0120	455.0605	Tack Coat	GAL	60.000	60.000
0130	460.2000	Incentive Density HMA Pavement	DOL	120.000	120.000
0140	460.5224	HMA Pavement 4 LT 58-28 S	TON	173.000	173.000
0150	504.0100	Concrete Masonry Culverts	CY	198.000	198.000
0160	505.0400	Bar Steel Reinforcement HS Structures	LB	28,390.000	28,390.000
0170	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,220.000	1,220.000
0180	516.0500	Rubberized Membrane Waterproofing	SY	170.000	170.000
0190	606.0300	Riprap Heavy	CY	30.000	30.000
0200	619.1000	Mobilization	EACH	1.000	1.000
0210	624.0100	Water	MGAL	5.000	5.000
0220	625.0100	Topsoil	SY	400.000	400.000
0230	625.0500	Salvaged Topsoil	SY	2,150.000	2,150.000
0240	628.1504	Silt Fence	LF	670.000	670.000
0250	628.1520	Silt Fence Maintenance	LF	670.000	670.000
0260	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0270	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0280	628.2008	Erosion Mat Urban Class I Type B	SY	2,150.000	2,150.000
0290	628.7504	Temporary Ditch Checks	LF	100.000	100.000
0300	629.0210	Fertilizer Type B	CWT	1.500	1.500
0310	630.0120	Seeding Mixture No. 20	LB	70.000	70.000
0320	633.5100	Markers Row	EACH	7.000	7.000
0330	633.5200	Markers Culvert End	EACH	2.000	2.000
0340	642.5001	Field Office Type B	EACH	1.000	1.000
0350	643.0100	Traffic Control (project) 01. 9216-07-60	EACH	1.000	1.000
0360	643.0300	Traffic Control Drums	DAY	875.000	875.000
0370	643.0420	Traffic Control Barricades Type III	DAY	1,107.000	1,107.000
0380	643.0705	Traffic Control Warning Lights Type A	DAY	2,214.000	2,214.000
0390	643.0900	Traffic Control Signs	DAY	464.000	464.000

9216-07-60

Line	Item	Item Description	Unit	Total	Qty
0400	643.0920	Traffic Control Covering Signs Type II	EACH	16.000	16.000
0410	643.1000	Traffic Control Signs Fixed Message	SF	64.000	64.000
0420	643.2000	Traffic Control Detour (project) 01. 9216-07-60	EACH	1.000	1.000
0430	643.3000	Traffic Control Detour Signs	DAY	4,428.000	4,428.000
0440	645.0105	Geotextile Type C	SY	255.000	255.000
0450	645.0120	Geotextile Type HR	SY	40.000	40.000
0460	646.0106	Pavement Marking Epoxy 4-Inch	LF	42,330.000	42,330.000
0470	650.4500	Construction Staking Subgrade	LF	225.000	225.000
0480	650.5000	Construction Staking Base	LF	225.000	225.000
0490	650.6500	Construction Staking Structure Layout (structure) 01. C-50-19	LS	1.000	1.000
0500	650.9910	Construction Staking Supplemental Control (project) 01. 9216-07-60	LS	1.000	1.000
0510	650.9920	Construction Staking Slope Stakes	LF	225.000	225.000
0520	690.0150	Sawing Asphalt	LF	65.000	65.000
0530	715.0502	Incentive Strength Concrete Structures	DOL	1,188.000	1,188.000
0540	SPV.0105	Special Temporary Water Diversion	LS	1.000	1.000

STH 86 EARTHWORK SUMMARY

STATION TO STATION	ROADWAY	205.0100 EXCAVATION COMMON CY NOTE 1	AVAILABLE MATERIAL CY NOTE 1	205.0400 EXCAVATION MARSH CY	EXPANDED MARSH CY EXP FACTOR 1.50	UNEXPANDED FILL CY	EXPANDED FILL CY EXP FACTOR 1.25	MASS ORDINATE +/- CY NOTE 2	WASTE CY
CATEGORY 0010									
13+25 - 15+50	STH 86	442	442	120	180	64	81	361	361
13+47 - 14+69	STH 86	1,146	1,146	0	0	0	0	1,146	1,146
	TOTALS	1,588	1,588	120	180	64	81	1,507	1,507

1. ALL EXCAVATED ASPHALT MATERIAL ASSUMED USABLE AS FILL.
2. MASS ORDINATE = EXCAVATION COMMON - EXPANDED FILL

GRUBBING

STATION TO STATION			ROADWAY	201.0205 GRUBBING STA
CATEGORY 0010				
13+75	-	14+75	STH 86	1
PROJECT TOTALS				1

REMOVING GUARDRAIL

STATION TO STATION			DIR	ROADWAY	204.0165 LF
CATEGORY 0010					
13+41	-	15+35	LT	STH 86	201
13+06	-	15+30	RT	STH 86	224
PROJECT TOTAL					425

BACKFILL GRANULAR GRADE 2

STATION TO STATION	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 CY
CATEGORY 0010		
13+47 - 14+69	STH 86	2840
PROJECT TOTALS		2,840

BASE AGGREGATE DENSE AND WATER

STATION TO STATION			ROADWAY	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	624.0100 WATER MGAL
CATEGORY 0010						
13+25	-	15+50	STH 86	28	460	3
UNDISTRIBUTED			STH 86	2	5	2
PROJECT TOTALS				30	465	5

ASPHALTIC ITEMS

STATION TO STATION			ROADWAY	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON
CATEGORY 0010					
13+25	-	15+50	STH 86	60	173
PROJECT TOTALS				60	173

RESTORATION

STATION TO STATION			ROADWAY	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB
CATEGORY 0010								
13+00	-	15+75	STH 86	---	1,720	1,720	1.2	51
UNDISTRIBUTED			STH 86	400	430	430	0.3	19
PROJECT TOTALS				400	2,150	2,150	1.5	70

EROSION CONTROL

STATION TO STATION			ROADWAY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.1905 MOBILIZATIONS EROSION CONTROL EA	628.1910 MOBILIZATIONS EROSION CONTROL EMERGENCY EA
CATEGORY 0010								
13+00	-	15+75	STH 86	540	540	---	2	2
UNDISTRIBUTED			STH 86	130	130	100	---	---
PROJECT TOTALS				670	670	100	2	2

PAVEMENT MARKING

STATION	TO	STATION	ROADWAY	646.0106 EPOXY 4-INCH WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	REMARKS
CATEGORY 0010						
13+25	-	15+50	STH 86	450	450	SOLID
STH 13		STH 13	CTH G	24,300	17,130	SOLID AND DASHED
			SUB TOTALS	24,750	17,580	
			PROJECT TOTALS	42,330		

CONSTRUCTION STAKING

STA	TO	STA	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	CATEGORY 0020 650.6500 STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
CATEGORY 0010								
13+25	-	15+50	STH 86	225	225	---	---	225
STRUCTURE C-50-19			STH 86	---	---	1	---	---
PROJECT			STH 86	---	---	---	1	---
			PROJECT TOTALS	225	225	1	1	225

SAWING

STATION	TO	STATION	ROADWAY	690.0150 ASPHALT LF
CATEGORY 0010				
13+25	-	15+50	STH 86	65
			PROJECT TOTALS	65

TRAFFIC CONTROL COVERING SIGNS

LOCATION	643.0920 COVERING SIGNS TYPE II EACH	NO. OF CYCLES	NO. OF SIGNS	REMARKS
CATEGORY 0010				
STH 13 NORTH OF STH 86	8	1	1	SEE DETOUR PLAN
STH 13 SOUTH OF STH 86	8	1	1	SEE DETOUR PLAN
PROJECT TOTALS	16			

MARKERS ROW

STATION	LOCATION	633.5100 MARKERS ROW EACH
CATEGORY 0010		
13+35.96	70.56' RT	1
13+75	85.00' RT	1
13+83.97	75.09' LT	1
14+00	93.00' LT	1
14+50	85.00' RT	1
14+50	62.07' LT	1
14+75	68.36' RT	1
PROJECT TOTALS		7

MARKERS CULVERT END

STATION	LOCATION	633.5200 MARKERS CULVERT END EACH
CATEGORY 0010		
13+98 RT	STH 86	1
14+18 LT	STH 86	1
PROJECT TOTALS		2

TRAFFIC CONTROL

LOCATION	APPROX. SERVICE PERIOD 60 DAYS	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 DAYS	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 DAYS	643.0900 SIGNS NO.	643.0900 DAYS	643.1000 SIGNS FIXED MESSAGE ** NO.	643.1000 SF	643.3000 DETOUR SIGNS NO.	643.3000 DAYS
CATEGORY 0010													
STH 86 WEST OF G	53	--	--	16	848	32	1696	6	318	1	32	2	106
CTH G AT STH 86	53	15	795	1	53	2	106	2	106	--	--	4	212
CTH G NORTH OF STH 86	53	--	--	--	--	--	--	--	--	--	--	8	424
STH 86 AT STH 13	53	--	--	2	106	4	212	--	--	1	32	2	106
STH 13 SOUTH OF CTH G SOUTH	53	--	--	--	--	--	--	--	--	--	--	11	583
CTH O WEST OF STH 13	53	--	--	--	--	--	--	--	--	--	--	11	583
STH 13 NORTH OF CTH G NORTH	53	--	--	--	--	--	--	--	--	--	--	11	583
STH 13 SOUTH OF CTH G NORTH	53	--	--	--	--	--	--	--	--	--	--	10	530
STH 86 EAST OF CTH G	53	--	--	--	--	--	--	--	--	--	--	17	901
UNDISTRIBUTED			80		100		200		40				400
PROJECT TOTALS			875		1,107		2,214		464		64		4,428

** FIXED MESSAGE SIGNS TO BE PLACED 1 WEEK PRIOR TO CONSTRUCTION

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

CONVENTIONAL ABBREVIATIONS

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

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

FOUND IRON PIPE/PIN	
R/W MONUMENT	
R/W STANDARD	
SIGN	
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	
UTILITY INTEREST	
SIGN NUMBER (OFF PREMISE)	
BUILDING	

CONVENTIONAL SYMBOLS

(1" UNLESS NOTED)	
◦ (SET)	PROPOSED R/W LINE
△ (SET)	EXISTING H.E. LINE
ISIGN	PROPERTY LINE
	LOT & TIE LINES
	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	ACCESS RESTRICTED (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
RWB20	QUARTER LINE
102	SIXTEENTH LINE
40	EXISTING CENTERLINE
21	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	⊠	

TRANSPORTATION PROJECT PLAT NO: 9216-07-20 - 4.01

THAT PART OF SOUTHWEST QUARTER OF THE NORTHWEST QUARTER AND THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 12, T34N, R1E, TOWN OF OGEMA, PRICE COUNTY, WISCONSIN.

RELOCATION ORDER STH 86, PRICE COUNTY

OGEMA-TOMAHAWK, CULVERT REPLACEMENT C-50-9, STH 86

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

375030

REGISTER OF DEEDS OFFICE
PRICE COUNTY, WIS.
Received for Record

JUL 11 2016

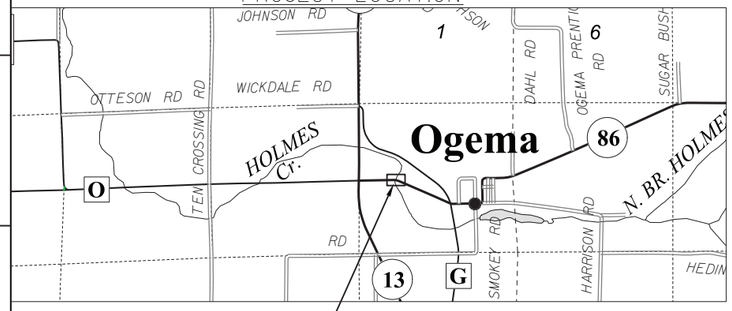
1 O'CLOCK P M. DULY RECORDED

Judith L. Ulrich
REGISTER OF DEEDS

Wood Cabinet #25

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9216-07-20 - 4.01
AMENDMENT NO:---

PROJECT LOCATION



CURVE A
PI STA = 14+66.89
Y = 324674.588
X = 794947.519
Δ = 24°15'59"
L = 275.29'
R = 650.00'
LC = 273.24
LCB = S78°52'07.5"E
BK=N88°59'53"E
AH=S66°44'08"E

TOWN

SECTION 12 SW-NW

SECTION 12 SE-NW

STH 86
(R/W WIDTH VARIES)

SECTION 12 NW-SW

SECTION 12 NE-SW

OF

OGEMA

CURVE 1 TABLE				
CURVE	LENGTH	CHORD LENGTH	CHORD BEARING	RADIUS
T108-T109	25.00	25.00	S79°04'17.5"E	650.00

EXISTING MONUMENT TABLE			
PT NO.	Y	X	MON
1213	324602.121	794818.038	3/4" IR
1236	324643.559	794670.890	3/4" IR
1248	324693.354	794670.598	3/4" IR
1456	324689.201	795040.121	3/4" IR
1459	324582.064	795048.477	3/4" IR

LINE TABLE		
LINE	BEARING	LENGTH
L1	N50°01'38"E	25.47
L2	S77°28'29"E	28.68
L3	S36°16'26"E	39.49
L4	S63°53'23"W	27.62
L5	N83°28'44"W	65.16
L6	N65°43'20"W	37.28
L7	S01°16'40"E	2.73

R/W POINTS			
PT#	Y	X	DESC
112	324716.650	794814.322	R/W
100	324745.563	794869.822	R/W
101	324761.922	794889.337	R/W
102	324755.704	794917.329	R/W
103	324723.867	794940.693	R/W
T108	324662.707	794930.100	COGO
T109	324657.968	794954.645	COGO
104	324591.111	794940.397	R/W
105	324578.954	794915.593	R/W
106	324586.354	794850.858	R/W
107	324601.680	794816.880	R/W
T122	324675.655	794815.234	COGO

ROAD NAME	BASIS OF EXISTING R/W	YEAR
STH 86	WISDOT PROJECT NO. 9215-03-21	1986

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, PRICE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY 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".

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT WISCONSIN DEPARTMENT OF TRANSPORATION REGION OFFICE IN RHINELANDER.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"x24" IRON REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

SCHEDULE OF LANDS AND INTEREST

PARCEL NO.		INTEREST REQUIRED	AREA REQUIRED NEW	EXISTING	TOTAL	TLE
1	INEZ STROMBOM	FEE TLE	1164 SQ FT	---	1164 SQ FT	2447 SQ FT
2	HILLSIDE CEMETARY ASSOCIATION	FEE TLE	1252 SQ FT	---	1252 SQ FT	7190 SQ FT

OMNNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
PHONE (920) 735-6900
FAX (920) 830-6100

I, DAVID A. YURK PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: David A. Yurk DATE: 7-5-2016
PRINT NAME: DAVID A. YURK
REGISTRATION NUMBER: S-2648

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION REGION OFFICE.

SIGNATURE: Brent L Stella DATE: 7-5-16
PRINT NAME: Brent L Stella

WISCONSIN DAVID A. YURK S-2648 OSHKOSH, WI LAND SURVEYOR

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-040401-RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 7/5/2016 10:54 AM PLOT BY : DAVE A. YURK PLOT NAME : PLOT SCALE : **********

BENCH MARKS			
NO.	STATION/OFFSET	DESCRIPTION	ELEV.
BM1	13+00.18, 39.22' RT	SPIKE IN 24" MAPLE TREE	1548.91
BM2	15+57.78, 55.51' RT	SPIKE IN POWER POLE	1537.95
BM3	17+93.90, -26.94' LT	SPIKE IN PRP*12-3-1-63/35	1546.39

CURVE A
PI STA = 14+66.89
Y = 324674.588
X = 794947.519
DELTA = 24°15'59"
D = 8°48'53"
T = 139.74
L = 275.29
R = 650.00
PC STA = 13+27.15
PT STA = 16+02.45
SE=5.7%

TREE REMOVALS (BY OTHERS)

STA 14+08 C-50-19
14'X6' CAST-IN-PLACE
OR PRECAST
CONCRETE BOX CULVERT
AND ENDWALLS

CP 900
Y = 324689.311
X = 794794.005

SEE CONSTRUCTION DETAIL AND R/W PLAT FOR TLE LIMITS

TEMPORARY LIMITED EASEMENT

WETLAND LIMITS

TEMPORARY WATER DIVERSION*

REMOVE EXISTING BEAM GUARD

SLOPE INTERCEPT (TYP)

CP 902
Y = 324577.666
X = 795201.664

SAWCUT AND MATCH EXISTING

PC: 13+27.15

CURVE A

STH 86

PT: 16+02.45

EXISTING R/W

R/L STH 86

N88°59'52.82"E

S66°44'08.43"E

BM1

REMOVE EXISTING BEAM GUARD

MATCH EX MH RIM ELEV

CP 901
Y = 324623.070
X = 795018.171

C-50-9
REMOVE 13.5'x9.5'x86' PASP
AND CONCRETE ENDWALLS

BEGIN PROJECT
STA 13+25.00
Y=324,672.106
X=794,805.646

CEMETERY PLOT;
DO NOT EXCAVATE
IN THIS AREA (TYP)

SEE CONSTRUCTION DETAIL AND R/W PLAT FOR TLE LIMITS

HOLMES CREEK

BM2

TEMPORARY LIMITED EASEMENT

WETLAND LIMITS

END PROJECT
STA 15+50.00
Y=324,638.143
X=795,026.934

*SEE PROJECT OVERVIEW SHEET AND CROSS SECTIONS FOR DETAILS

VPI STA = 14+37.50
VPI ELEV = 1545.45
g1 = -4.80%
g2 = -0.99%
L = 225.00
K = 59

VPC STA = 13+25.00
VPC ELEV = 1550.85

VPT STA = 15+50.00
VPC ELEV = 1544.34

-4.80%

-0.99%

EXISTING R/L PROFILE

PROPOSED R/L PROFILE

HW100 ELEV. = 1535.12

STRUCTURE C-50-19
STA 14+08
14'x6'x96' CAST IN PLACE OR
PRECAST CONCRETE BOX CULVERT
SEE BRIDGE DRAWINGS

REMOVE STRUCTURE C-50-9
STA 14+00
13.5'x9.5'x86' PIPE ARCH STRUCTURE PLATE
AND CONCRETE ENDWALLS

OBSERVED WATER
ELEV. = 1531.1

1555 1550 1545 1540 1535 1530 1527

1550.9 1550.85 | 1549.7 1549.71 | 1548.7 1548.66 | 1547.7 1547.73 | 1546.9 1546.90 | 1546.2 1546.18 | 1545.6 1545.56 | 1545.0 1545.05 | 1544.6 1544.64 | 1544.3 1544.34

11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00 13+25 13+50 13+75 14+00 14+25 14+50 14+75 15+00 15+25 15+50 15+75 16+00 16+25 16+50 16+75 17+00 17+25

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	PLAN AND PROFILE: STH 86	SHEET 16	E

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-050101-PP.DWG
LAYOUT NAME - 92160760-050101-PP

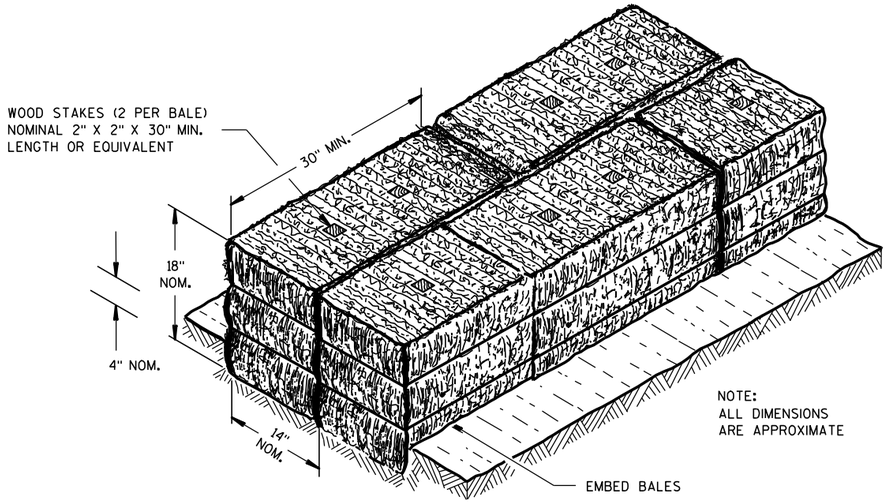
PLOT DATE : 1/19/2017 4:51 PM PLOT BY : JAIRO MAZARIEGOS PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

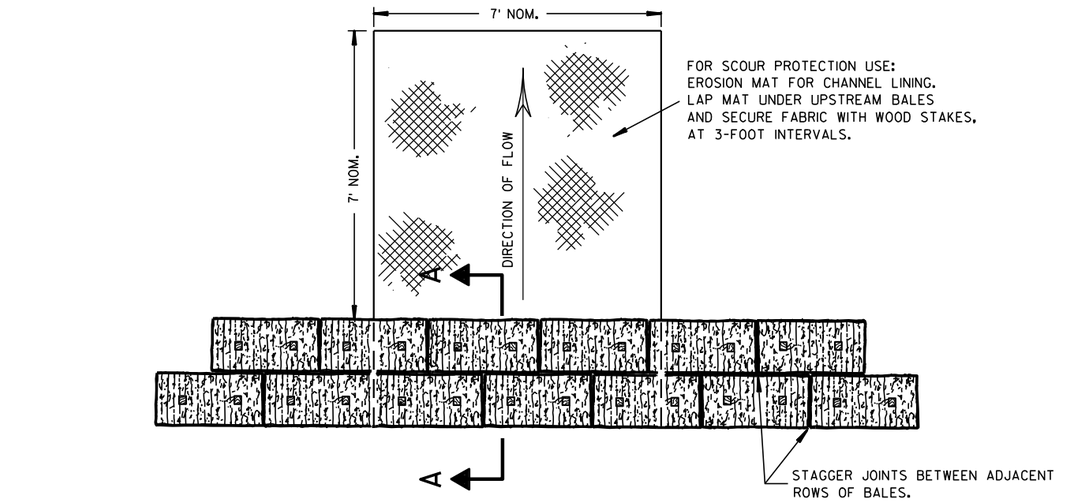
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A01-13B	FLEXIBLE MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

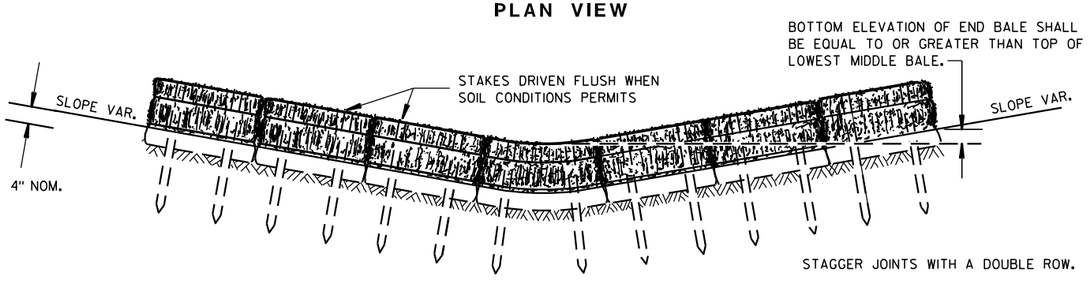
6



SECTION A-A



PLAN VIEW



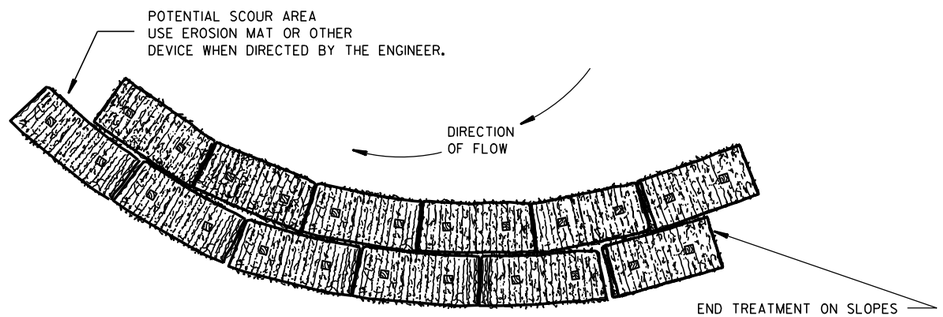
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

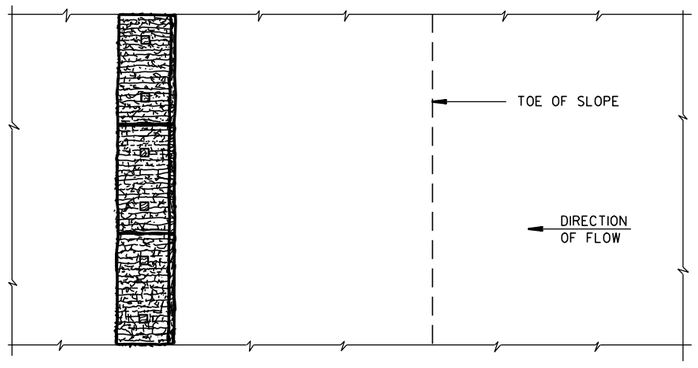
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

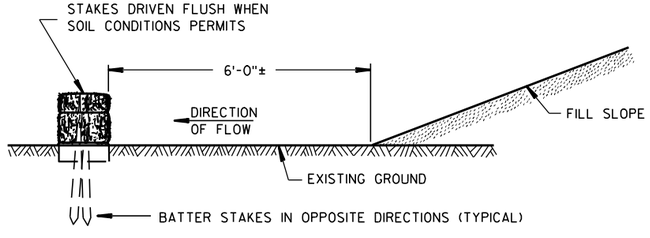


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

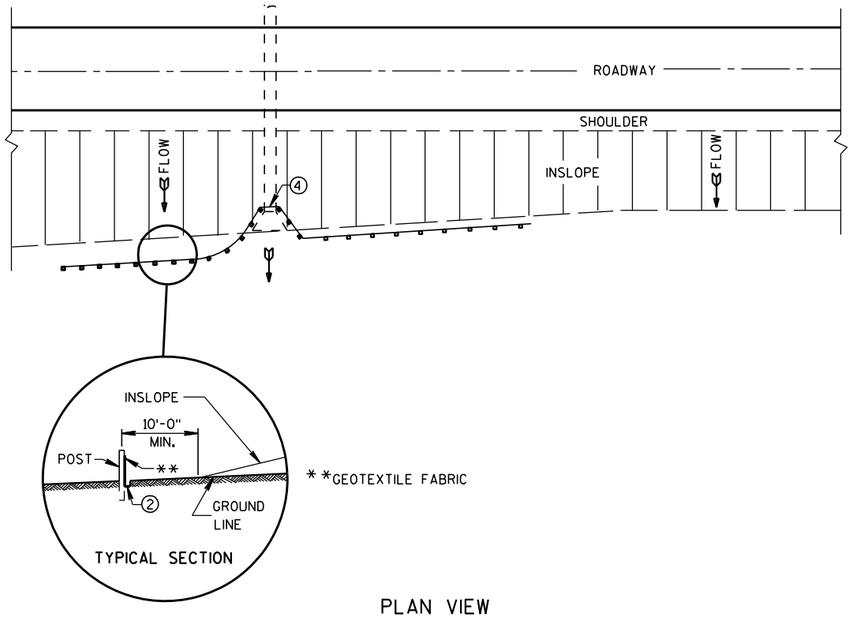
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

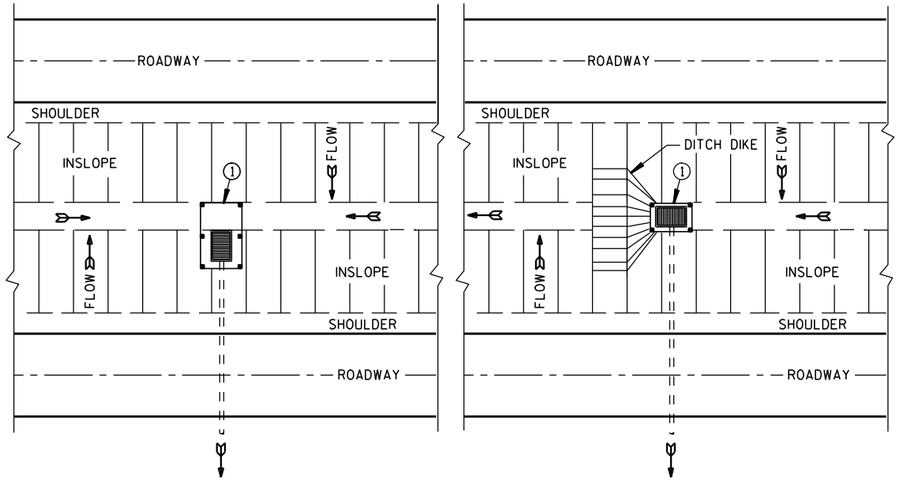
6

S.D.D. 8 E 8-3



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.

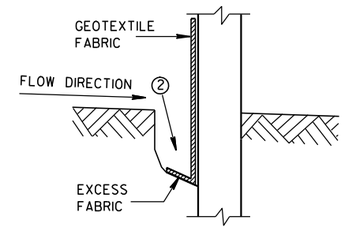
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

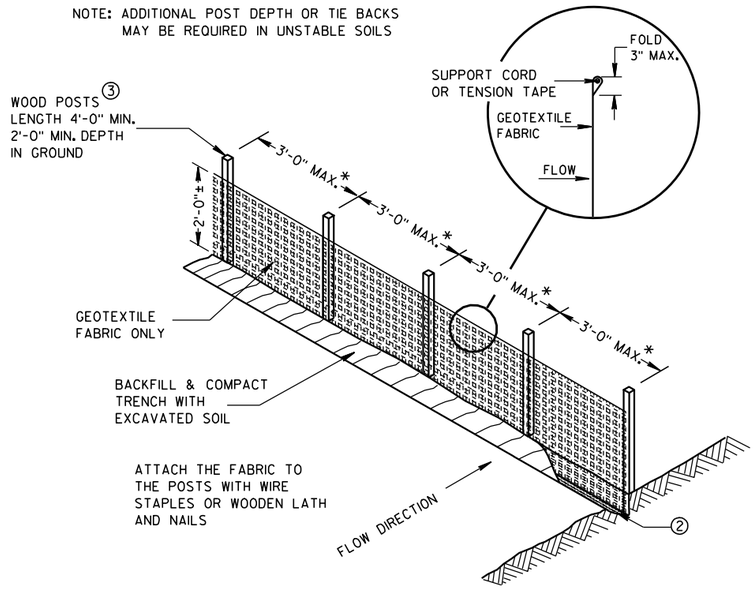
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

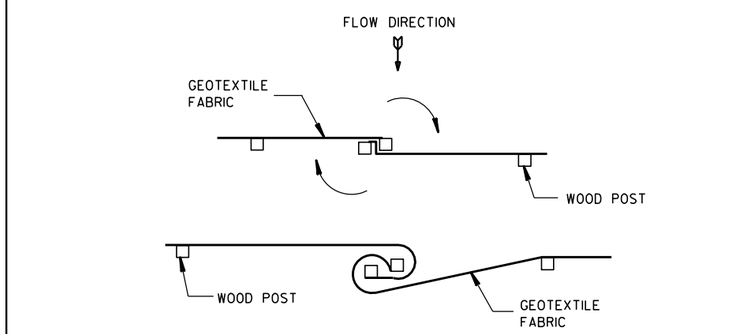
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



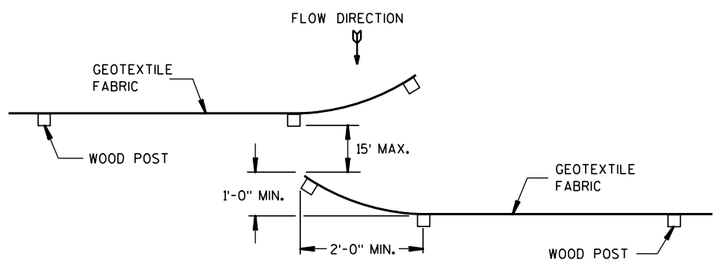
TRENCH DETAIL



SILT FENCE

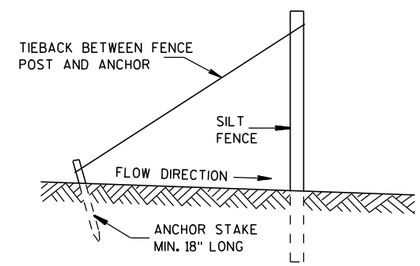


TWIST METHOD



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

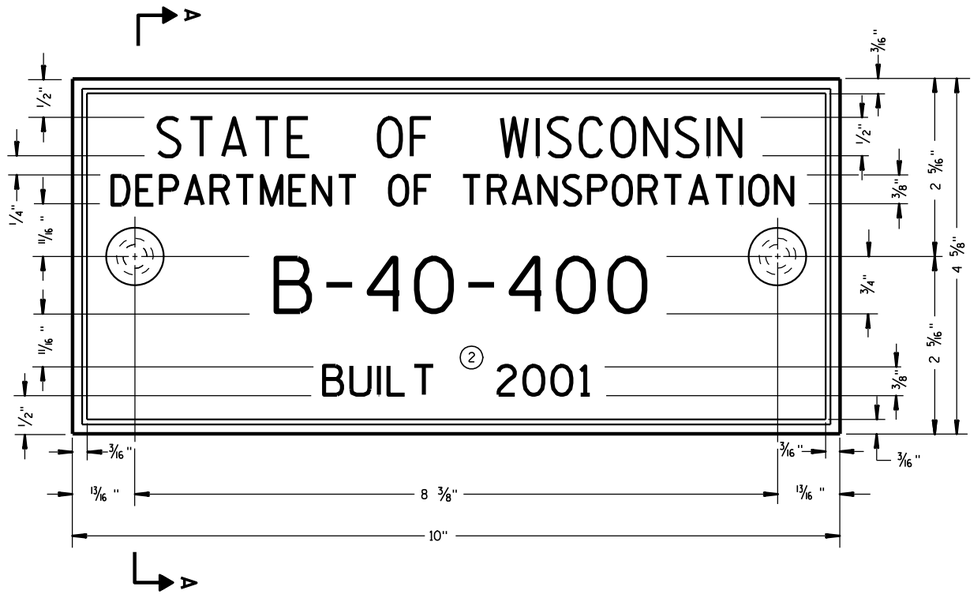
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

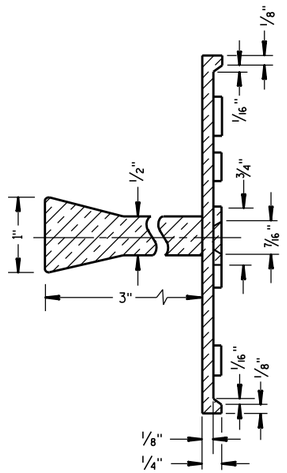
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

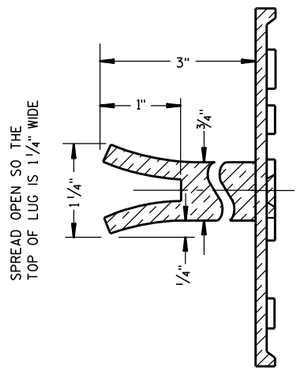
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

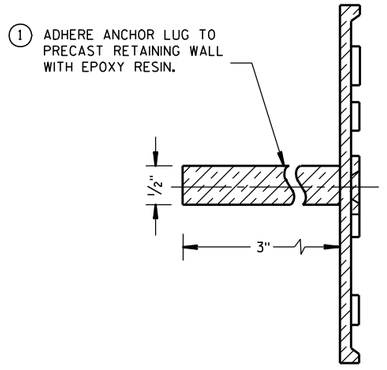
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

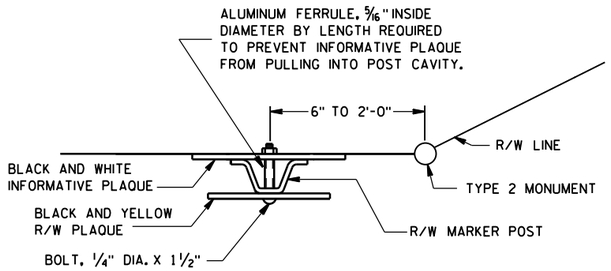
3/26/10 DATE

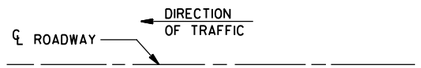
/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

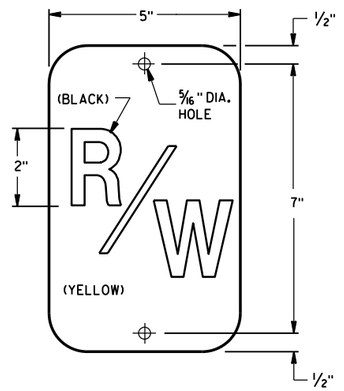
6

S.D.D. 12 A 3-10



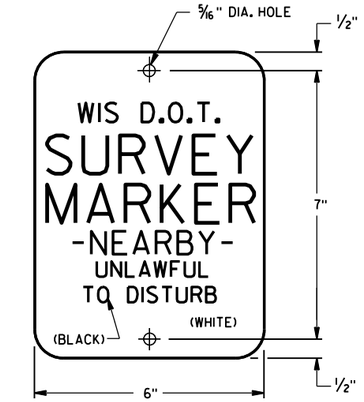


PLAN VIEW



R/W PLAQUE

THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



INFORMATIVE PLAQUE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

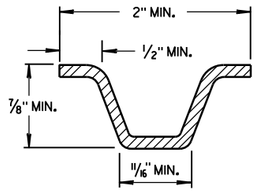
A STEEL MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. R/W AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

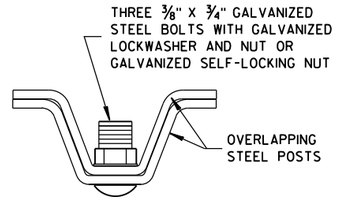
(1) IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3'10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR.

FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT. DEPENDING ON THE STABILITY OF THE ROCK.

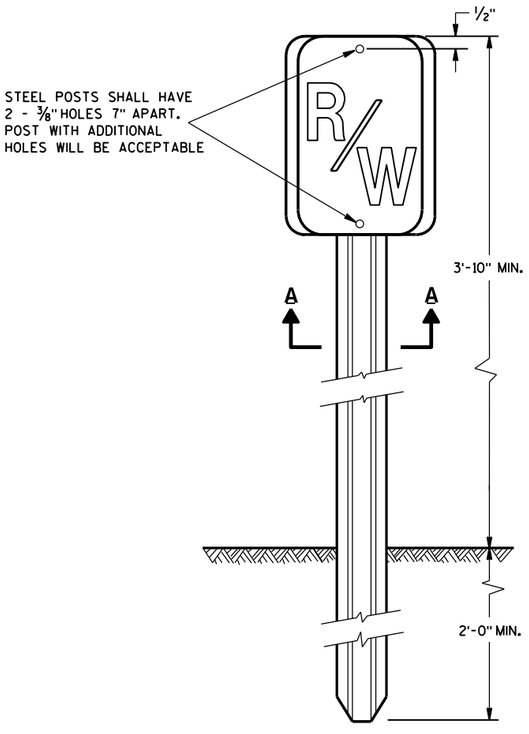


MIN. WEIGHT 1.12 LB./FT.

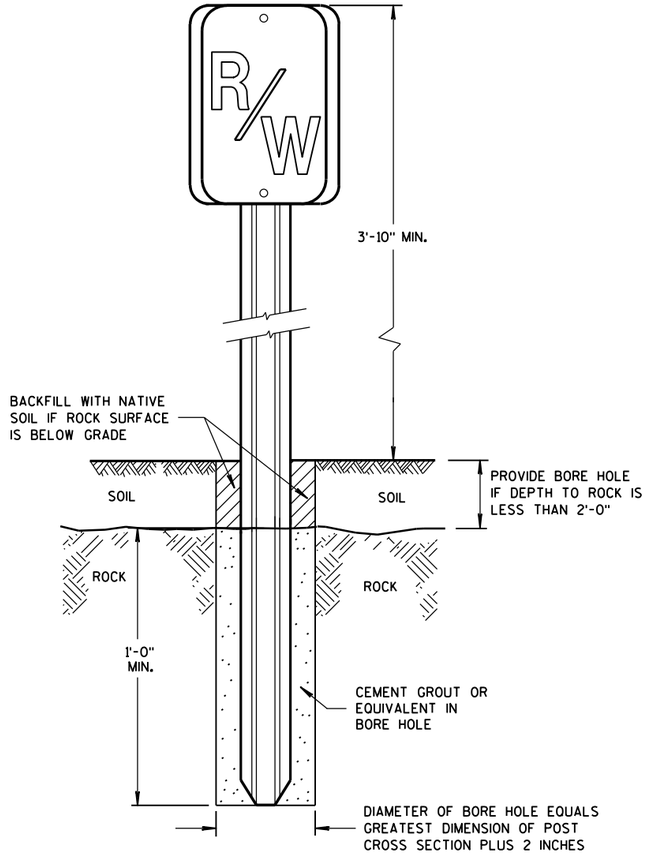
SECTION A-A



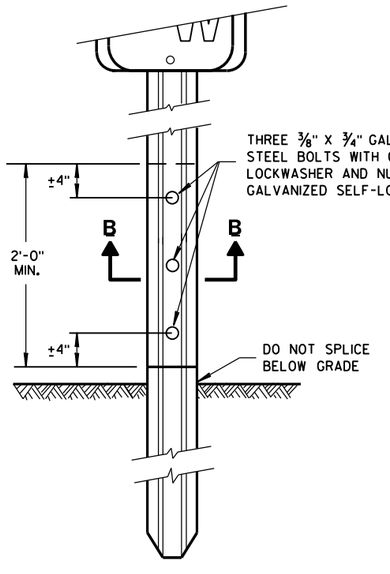
SECTION B-B



FRONT VIEW
STEEL MARKER POST



FRONT VIEW
ROCK INSTALLATION (1)



FRONT VIEW
SPLICE DETAIL

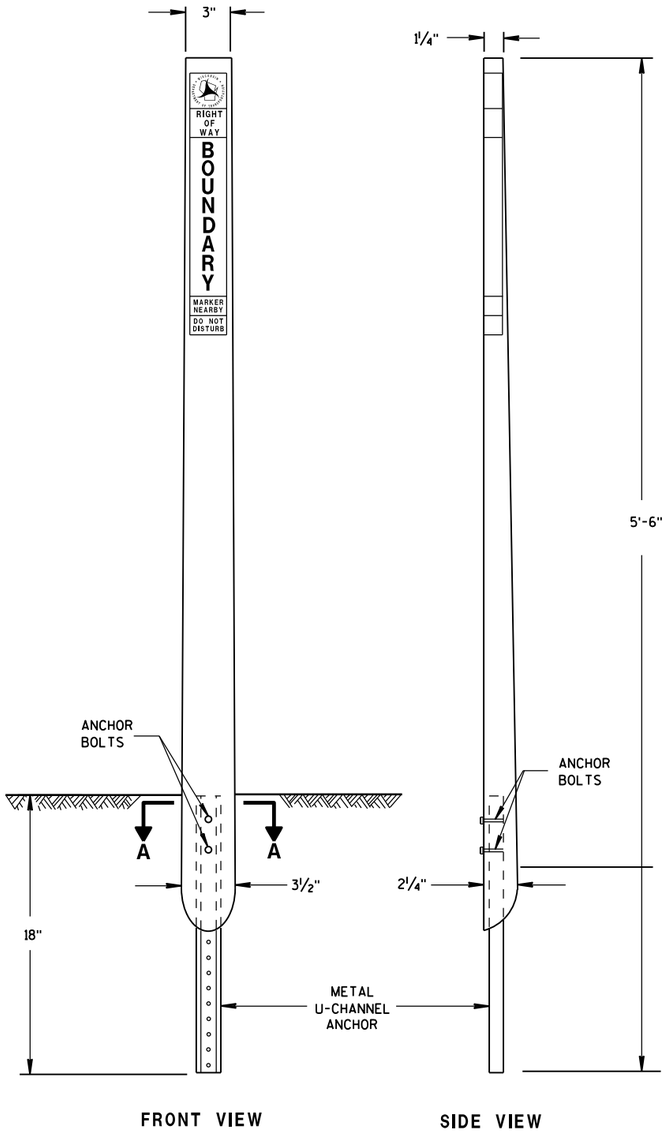
MARKER POST FOR RIGHT-OF-WAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/18/2016 DATE
/S/ Ray Kumapayi CHIEF SURVEYING AND MA INEER
FHWA

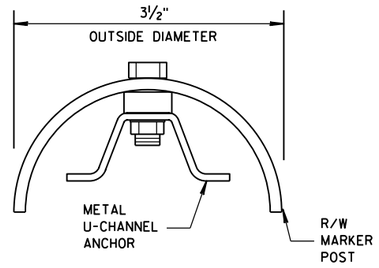
6

S.D.D. 15 A 1-13a

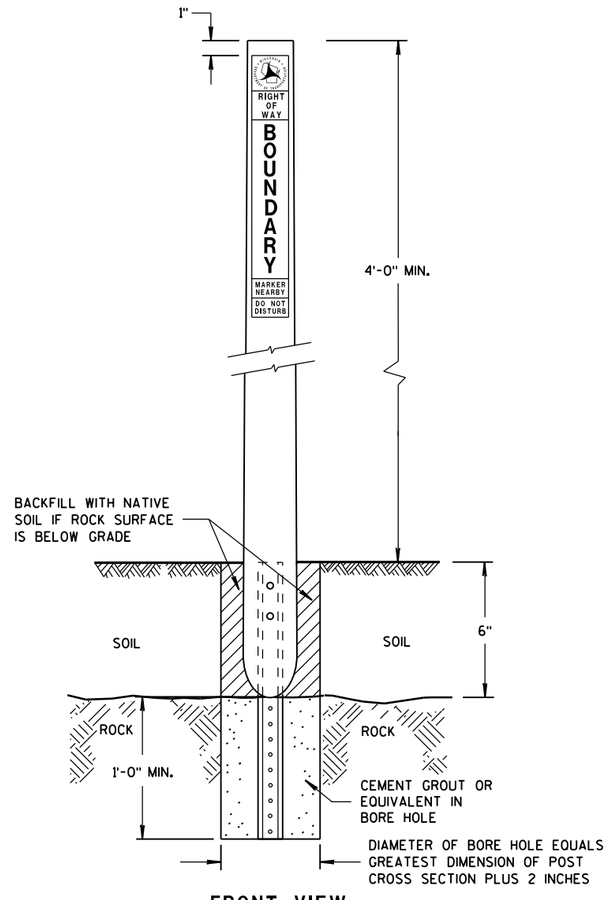


FRONT VIEW SIDE VIEW

FLEXIBLE MARKER POST FOR RIGHT-OF-WAY ①

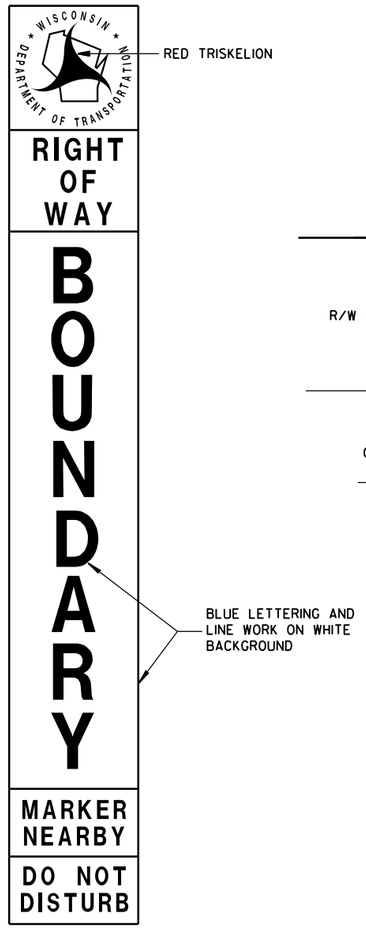


SECTION A-A



FRONT VIEW

ROCK INSTALLATION ①②



RIGHT-OF-WAY STICKER

THE RIGHT-OF-WAY STICKER SHALL BE ATTACHED 1" FROM THE TOP OF THE RIGHT-OF-WAY POST PRIOR TO DELIVERY.

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A FLEXIBLE MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

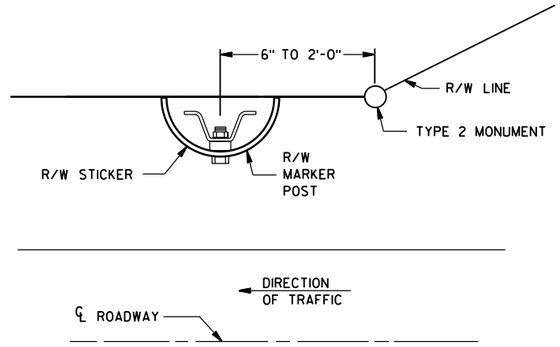
THE RIGHT-OF-WAY STICKER DIMENSIONS SHALL BE 2¼" X 17" AND THE STICKER SHALL BE MADE OF A NON-REFLECTIVE VINYL MATERIAL. THE RIGHT-OF-WAY STICKER SHALL FACE THE ROADWAY.

INSTALL PER DEPTH OF MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN 18 INCHES BELOW GRADE FROM THE BOTTOM OF THE METAL U-CHANNEL ANCHOR.

① FLEXIBLE MARKER POSTS SHALL BE INCLUDED IN THE APPROVED PRODUCTS LIST FOR MARKER POSTS AND SHALL BE FEDERAL YELLOW IN COLOR.

② IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 4'-0" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR.

FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.



PLAN VIEW

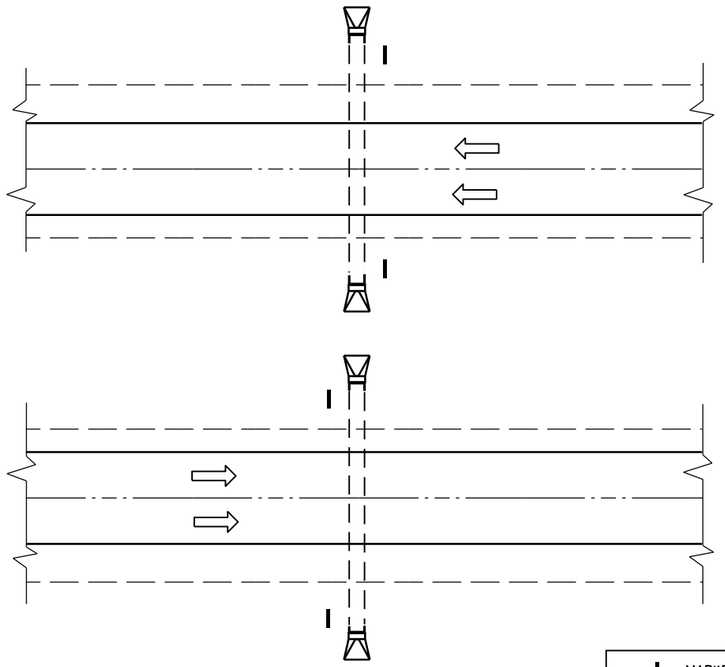
FLEXIBLE MARKER POST FOR RIGHT-OF-WAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/18/2016 — DATE
/S/ Ray Kumapayi — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

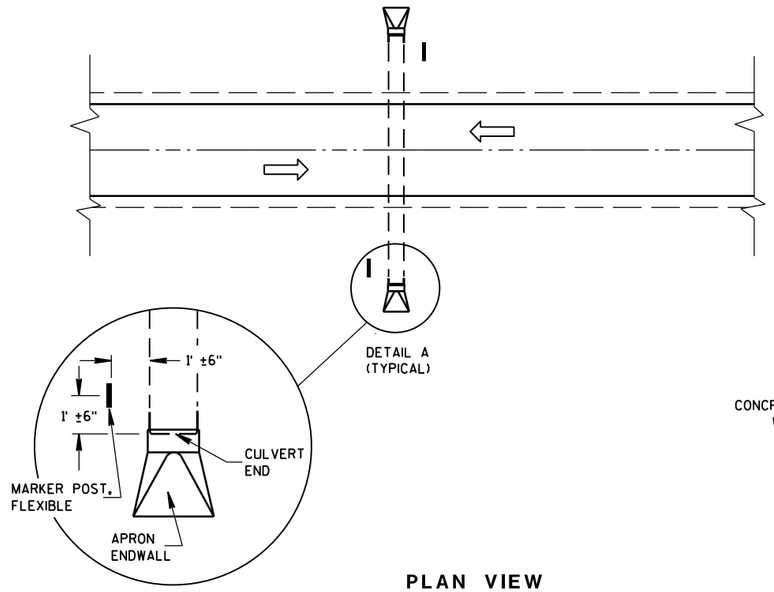
6

S.D.D. 15 A 1-13b



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

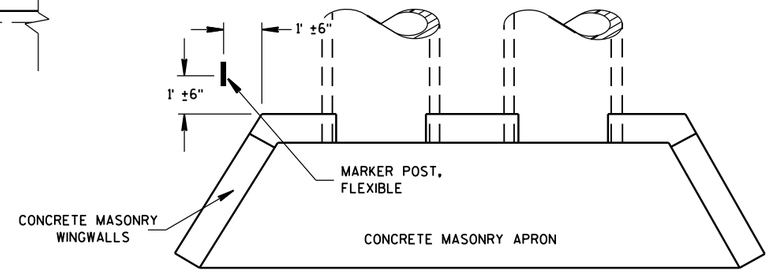
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

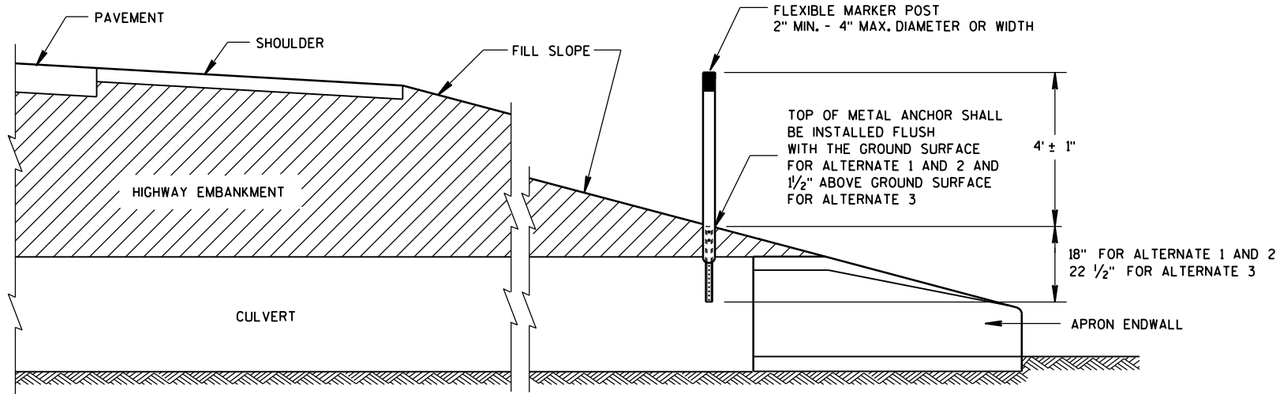
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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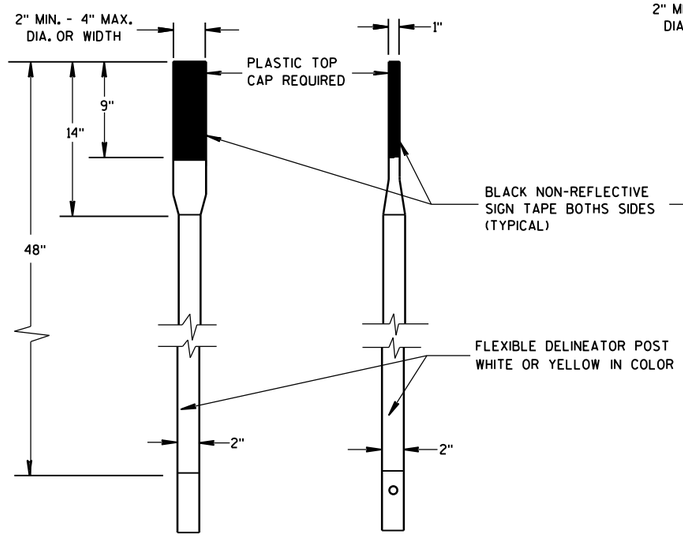
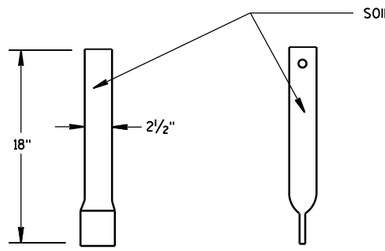
S.D.D. 15 A 3-2a

6

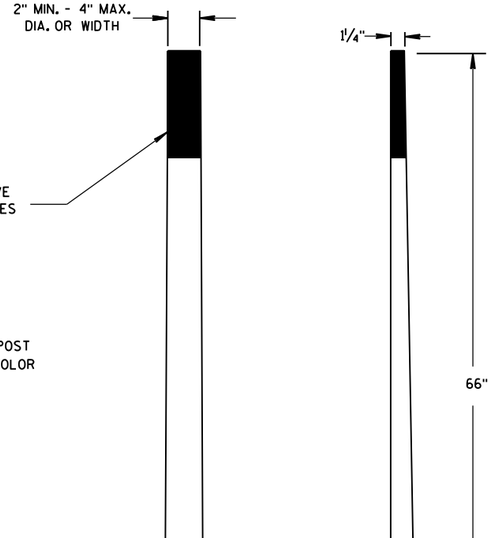
S.D.D. 15 A 3-2a





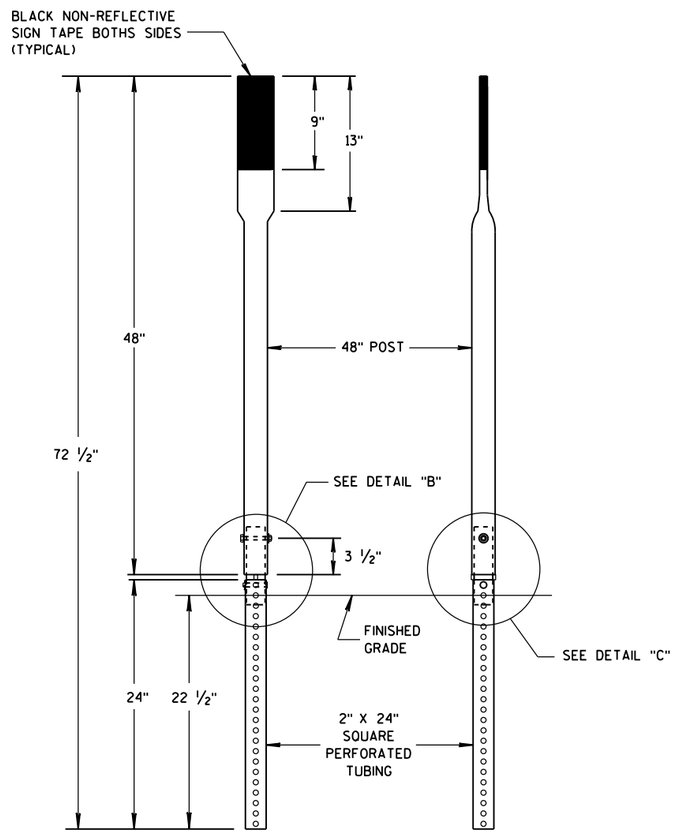
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

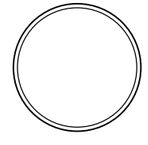
ALTERNATE 2



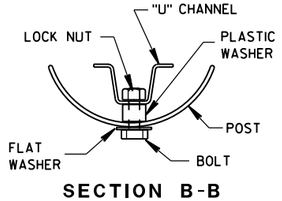
FRONT VIEW SIDE VIEW

ALTERNATE 3

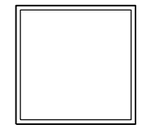
FLEXIBLE MARKER POSTS



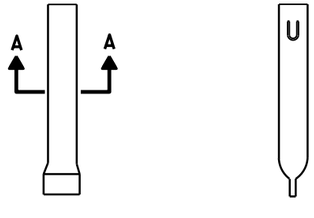
SECTION A-A



SECTION B-B

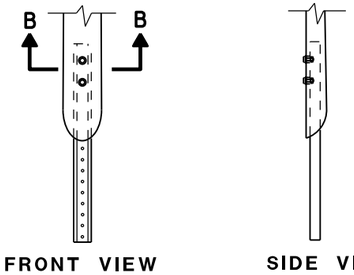


SECTION C-C



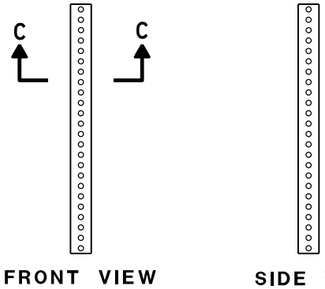
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

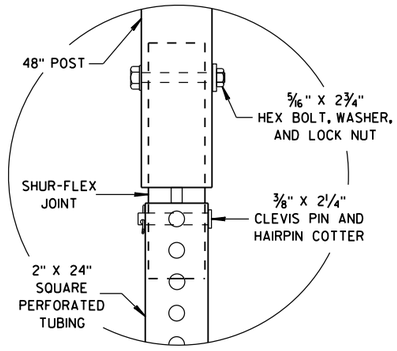
ALTERNATE 2



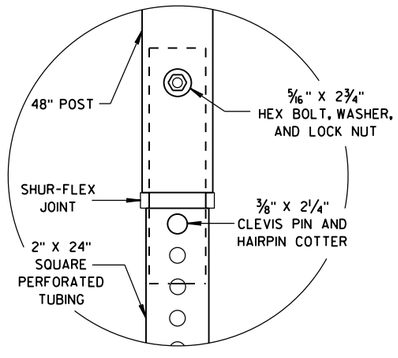
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
IGN
FHWA

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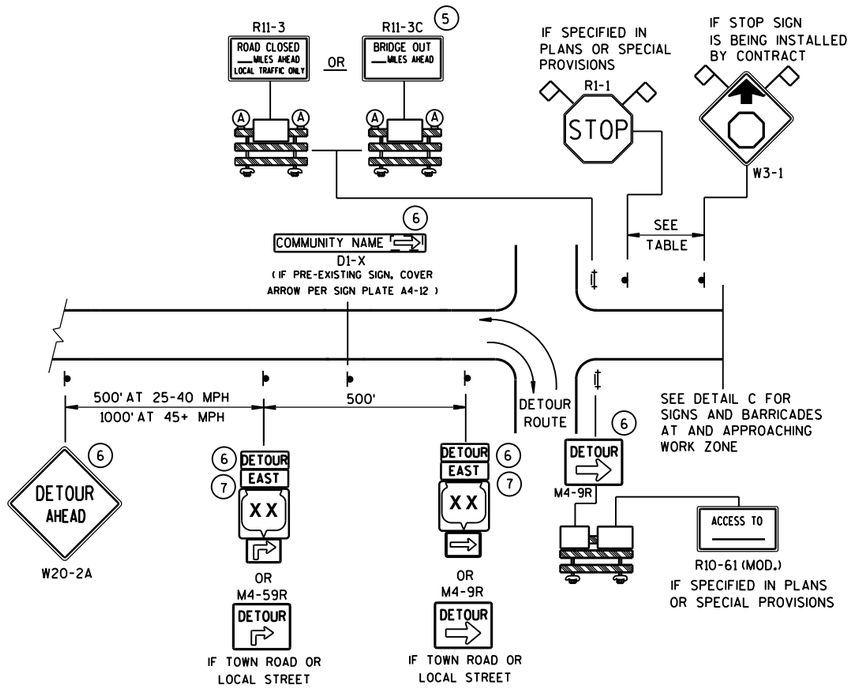
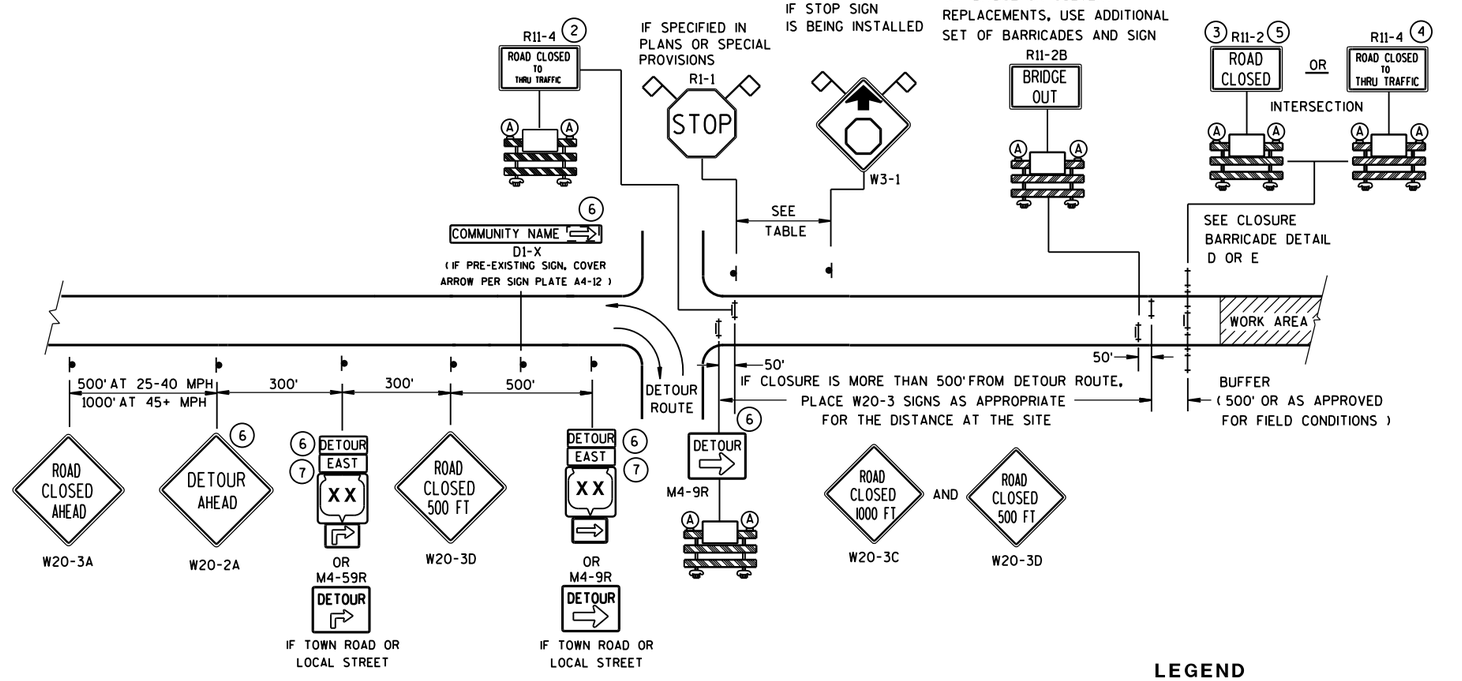
S.D.D. 15 A 3-2b



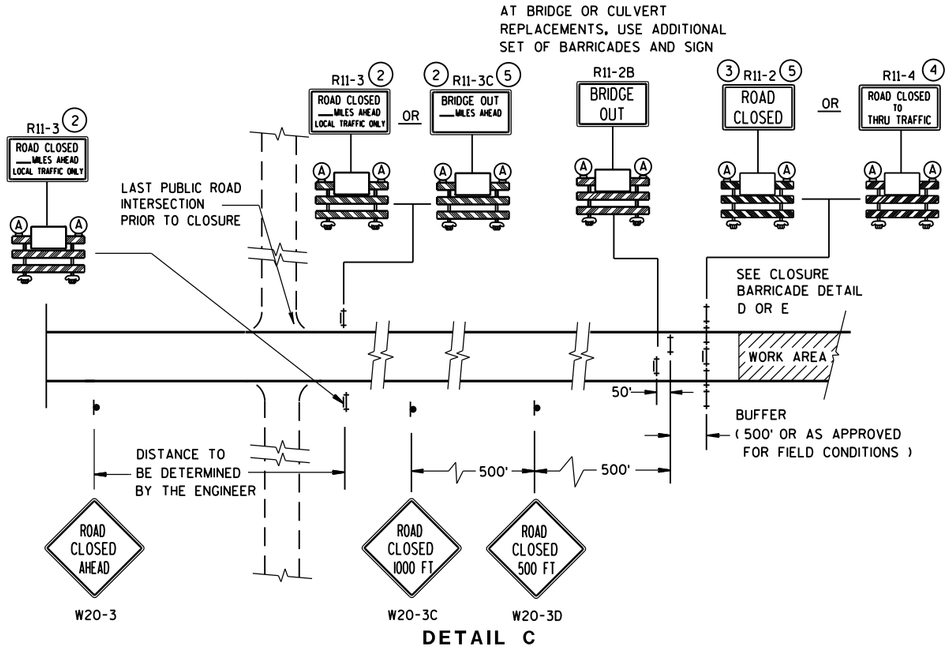
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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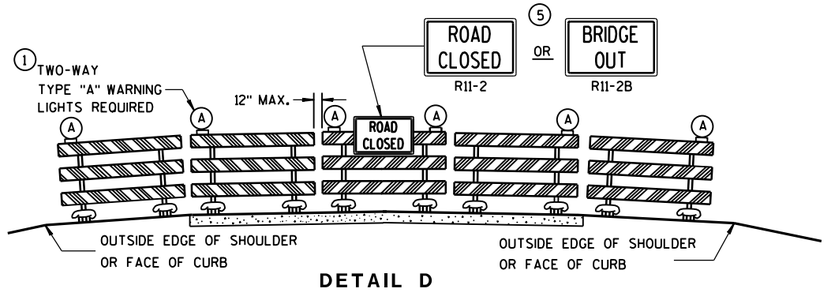
S.D.D. 15 C 2-6a

6

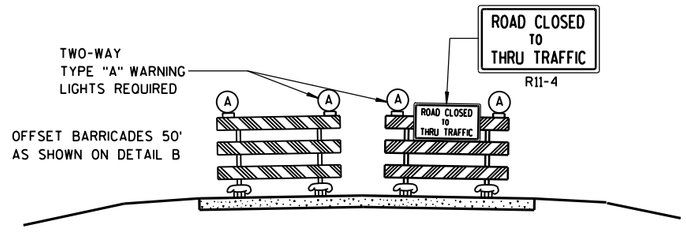
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FHWA — FIC

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S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

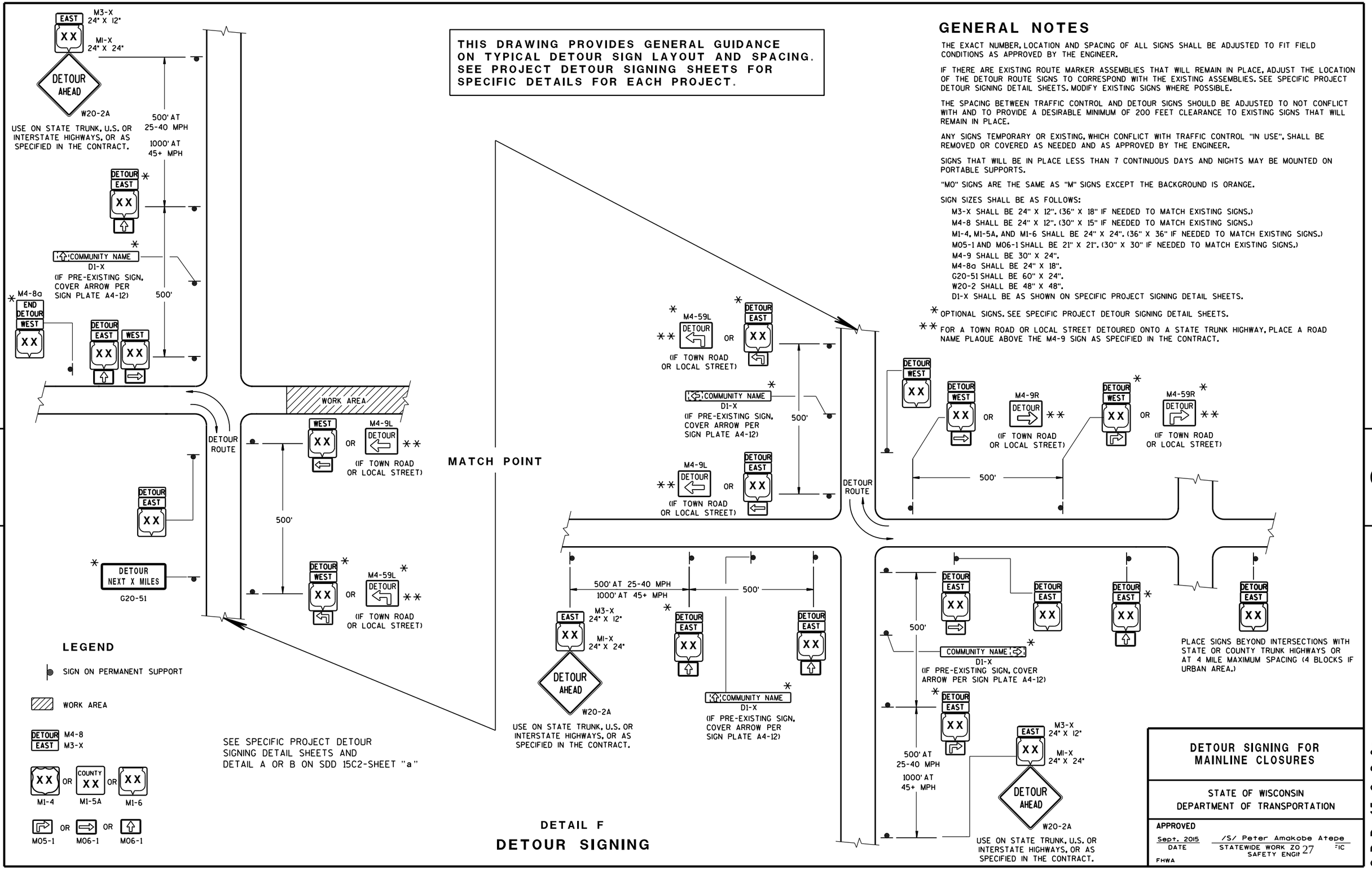
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO... SAFETY ENGI...

FHWA

S.D.D. 15 C 2-6c

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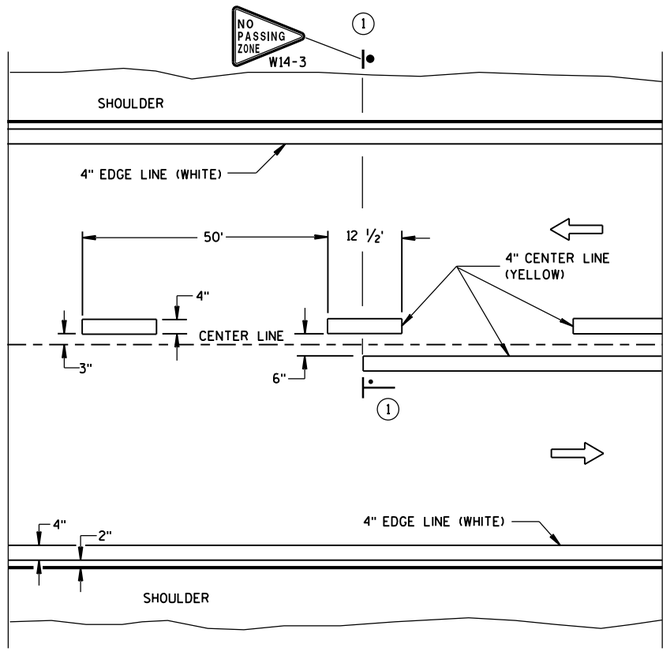
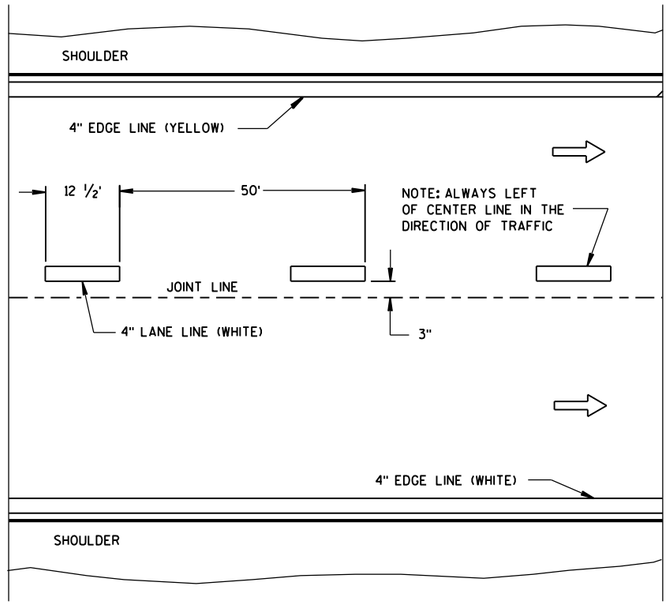


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

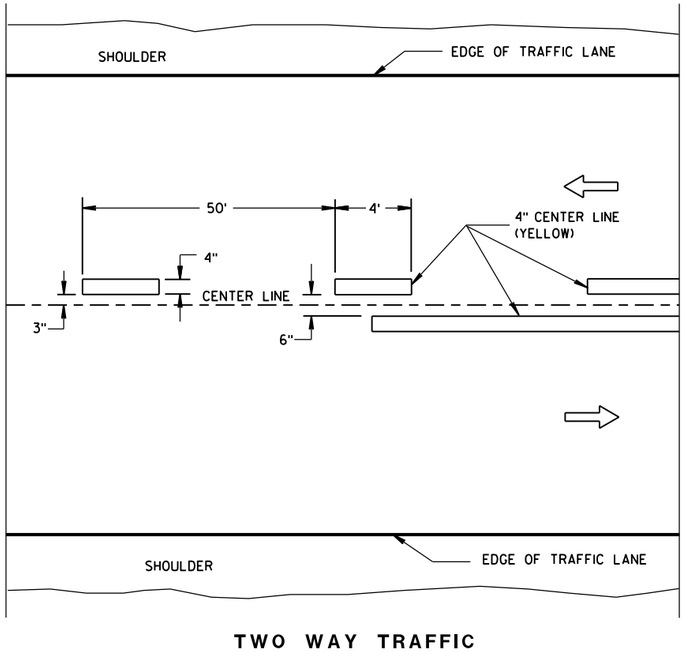
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

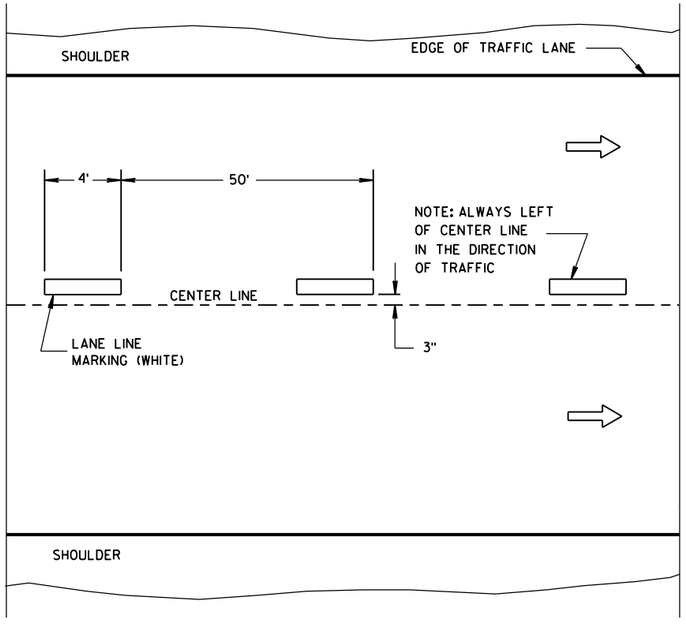
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]INEER
FHWA

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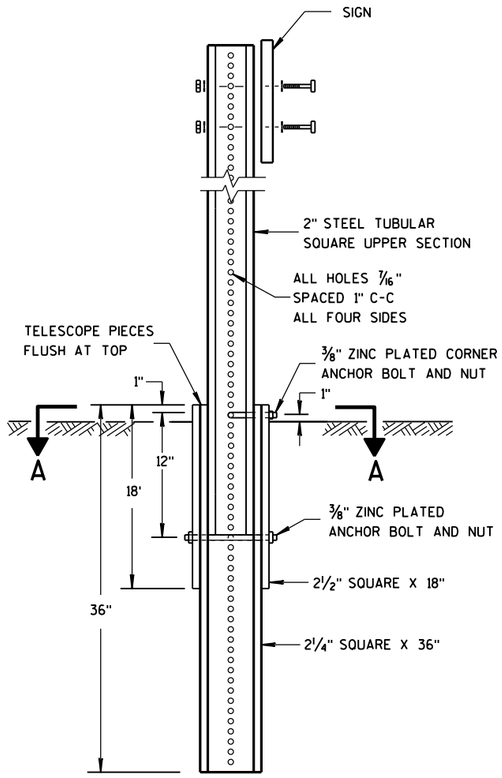
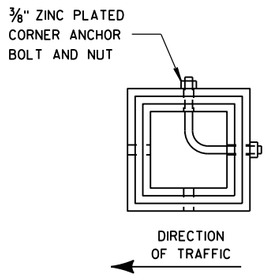
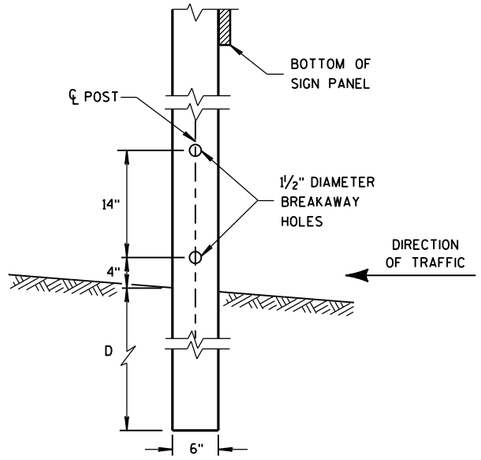
S.D.D. 15 C 8-17a



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



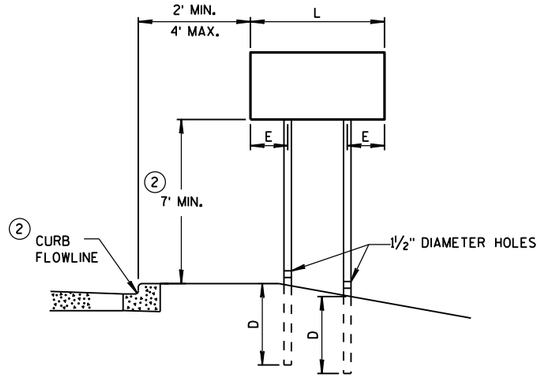
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

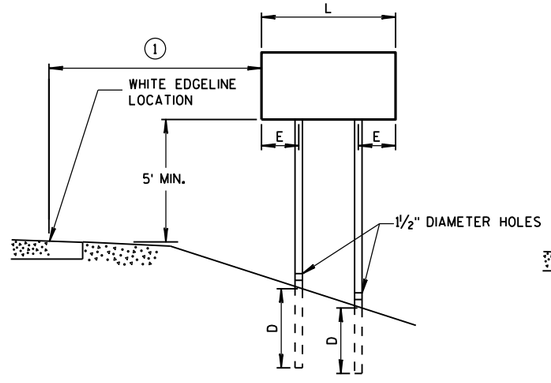
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

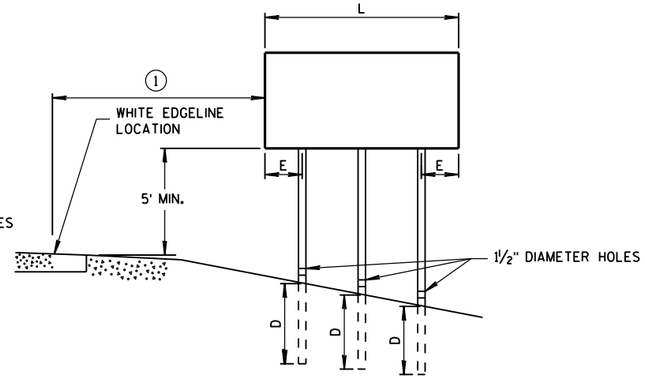
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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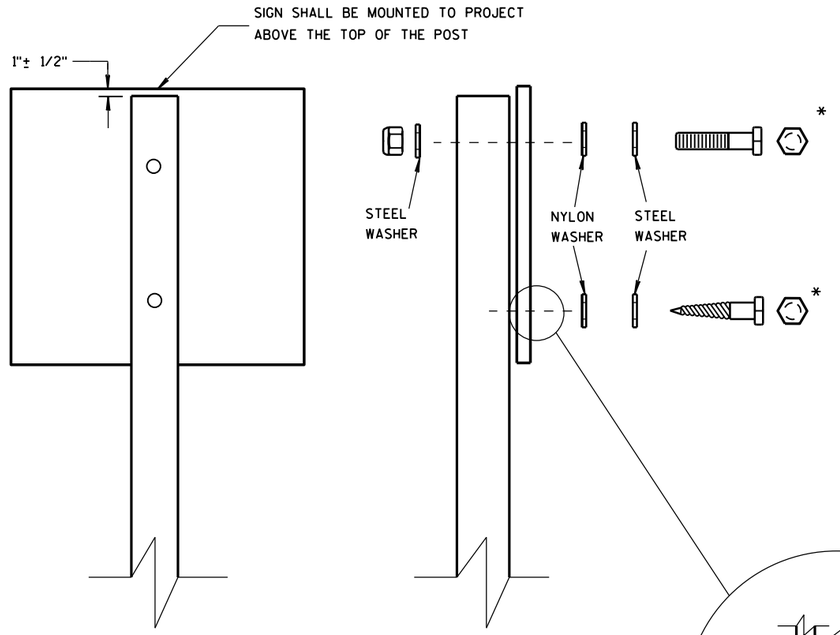
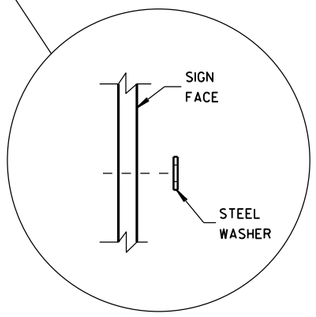
S.D.D. 15 D 38-1a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

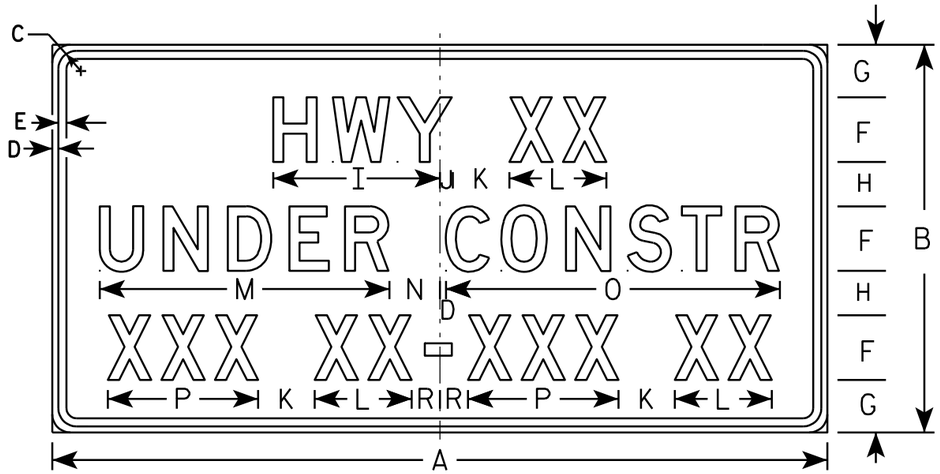
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN

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. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

7

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	2400 mm X 1200 mm
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																												
3																												
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	1 5/8	7	12	35 7/8	6 1/4	41 3/8	18 5/8		3 1/2									32.0	2.88
5																												

STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

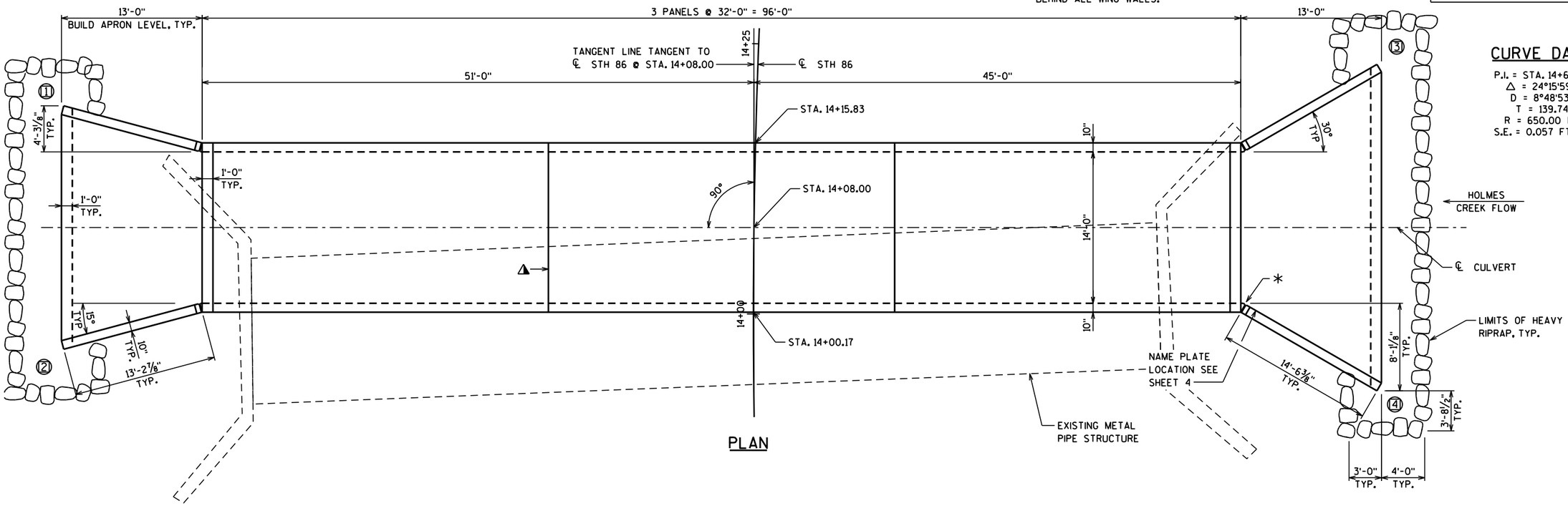
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/13/09 PLATE NO. G20-57.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 31	E

STATE PROJECT NUMBER
9216-07-60

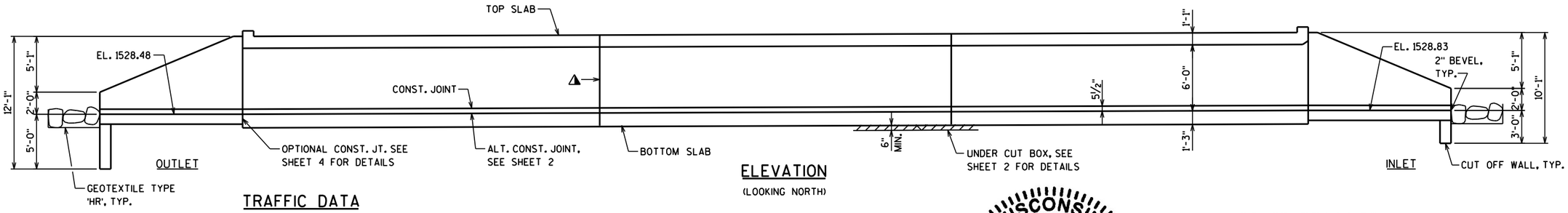
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.



PLAN

CURVE DATA

P.I. = STA. 14+66.89
△ = 24°15'59"
D = 8°48'53"
T = 139.74
R = 650.00 FT
S.E. = 0.057 FT/FT



ELEVATION
(LOOKING NORTH)

TRAFFIC DATA

ADT = 450 (2017)
640 (2037)
RDS = 35 M.P.H.

NOTES

Ⓧ INDICATES WING NUMBER

* SEE CORNER DETAILS SHT. 4, TYP.

△ VERTICAL CONSTRUCTION JOINT (TYP.); 18" RMW UP WALLS & ACROSS TOP SLAB

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 14+00	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-50-19	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	710
504.0100	CONCRETE MASONRY CULVERTS	CY	198
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	28,390
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,220
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	170
606.0300	RIPRAP HEAVY	CY	30
645.0105	GEOTEXTILE TYPE C	SY	255
645.0120	GEOTEXTILE TYPE HR	SY	40
	NON-BID ITEMS		
	FILLER	SIZE	¾"

HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} ——— 424 C.F.S.
VELOCITY ——— 9.66 F.P.S.
HIGH WATER ——— EL. 1535.12 (100 YEAR)
WATERWAY AREA ——— 43.9 S.F.
DRAINAGE AREA ——— 8.6 SQ. MILES
OVERTOPPING FREQUENCY = N/A
SCOUR CRITICAL CODE = 5

2 YEAR FREQUENCY

Q_2 ——— 130 C.F.S.
HIGH WATER ——— EL. 1532.38 (2 YEAR)

DESIGN DATA

LIVE LOAD:
DESIGN LOADING ——— HL-93
INVENTORY RATING FACTOR ——— RF = 1.05
OPERATING RATING FACTOR ——— RF = 1.35
WISCONSIN STANDARD
PERMIT VEHICLE (Wis-SPV) ——— 255 KIPS

EARTH LOAD:
DESIGNED FOR 10 TO 13 FEET OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY GRADE A-FA —— f'c = 3,500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

WISCONSIN
BRIAN R. EPLEY
E-42388
APPLETON
WI
PROFESSIONAL ENGINEER
3/15/17

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

CONSULTANT CONTACT

KRISTOFER OLSON
OMNNI ASSOCIATES, INC.
(920) 735-6900

BRIDGE OFFICE CONTACT

WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
OMNNI ASSOCIATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher SDR 03/20/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-50-19

STH 86 OVER HOLMES CREEK

COUNTY	TOWN
PRICE	OGEMA

DESIGN SPEC.	LOAD
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS	HL-93

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BRE	KRO	BRE	JAW

LAYOUT

SHEET 1 OF 5

32

8

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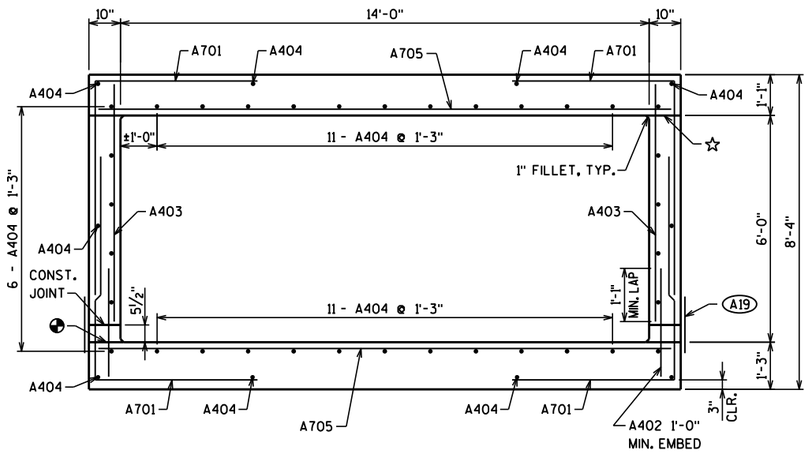
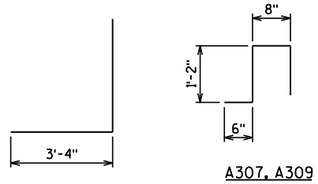


TYPICAL SECTION THRU BOX

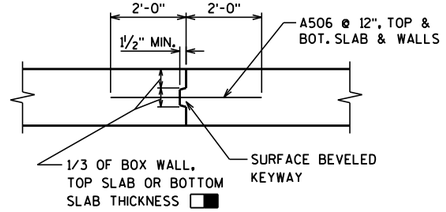
BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
A701		588	8'-7"	X	CORNERS
A402		264	2'-7"		WALLS - DOWEL VERT.
A403		264	6'-5"		WALLS - VERT.
A404		132	31'-8"		TOP & BOT. SLAB & WALL
A705		390	15'-4"		TOP & BOT. SLAB TRANS.
A506		88	4'-0"		VERT. CONST. JOINT
A307		22	3'-3"	X	HEADER STIRRUPS VERT. OUTLET
A408		4	15'-4"		HEADERS HORIZ.
A309		22	2'-11"	X	HEADER STIRRUPS VERT. INLET



A701 A307, A309

BAR BEND DIAGRAMS



VERTICAL CONSTRUCTION JOINT

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE UPPER LIMITS OF THE "EXCAVATION FOR STRUCTURES CULVERTS C-50-19" SHALL BE THE EXISTING GROUND LINE.

WITHIN THE LENGTH OF THE BOX ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE CULVERT.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE APPROVAL OF THE STRUCTURES DESIGN SECTION. THE PRECAST STRUCTURE SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES". ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF "STRUCTURE BACKFILL TYPE B" OF 6" MINIMUM DEPTH.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

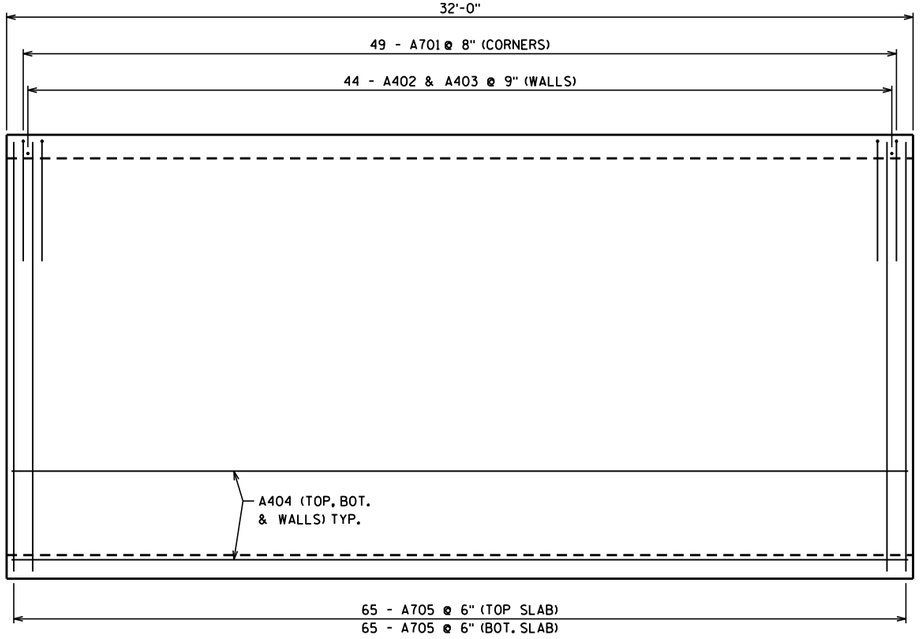
(A19) PLACE AN 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

☆ OPTIONAL CONST. JOINT. OMIT 1" FILLET IF OPTIONAL CONST. JOINT IS USED.

◑ UNDER CUT BOX AND APRONS 6" (INCLUDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE FABRIC TYPE 'C', AND BACKFILL WITH STRUCTURE BACKFILL, TYPE B. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

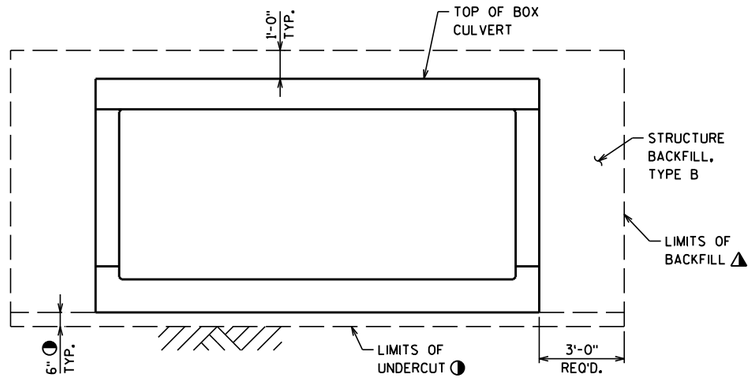
▬ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

◓ ALTERNATE CONST. JOINT. OMIT 1" FILLET IF ALTERNATE CONST. JOINT IS USED.

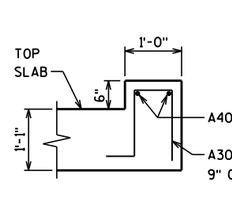


PLAN VIEW OF PANEL

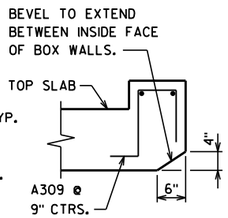
USE IDENTICAL STEEL IN OTHER PANELS. APRON AND HEADER ARE NOT SHOWN.



TYPICAL SECTION THRU BOX CULVERT



SECTION THRU TOP HEADER



SECTION THRU HEADER AT INLET

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-50-19

DRAWN BY BRE | PLANS CK'D. JAW

BOX DETAILS

SHEET 2 OF 5

33

STATE PROJECT NUMBER
9216-07-60

8

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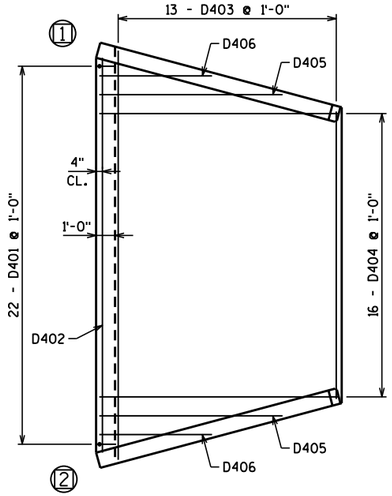
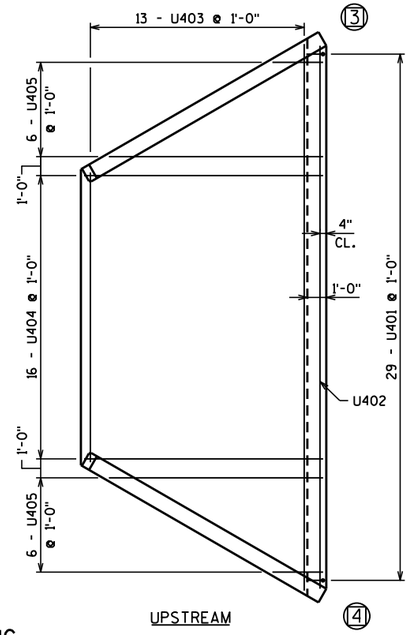
STATE PROJECT NUMBER
9216-07-60

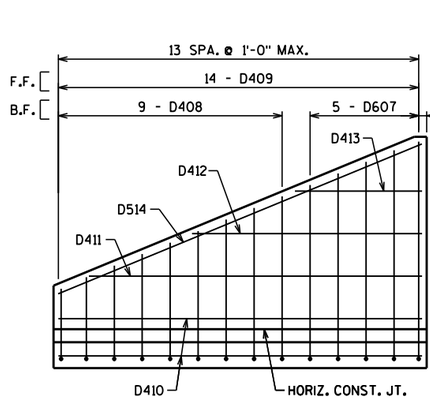


DOWNSTREAM

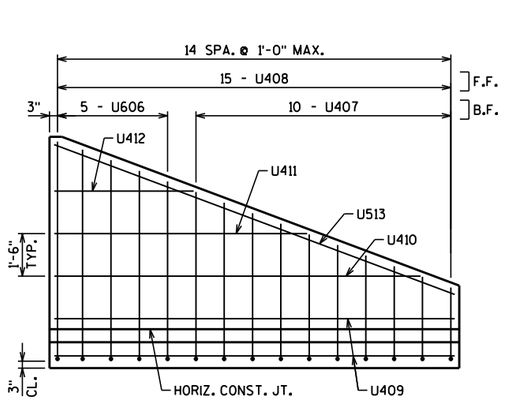


UPSTREAM

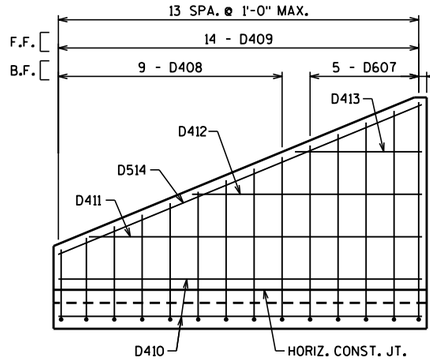
APRON REINFORCING



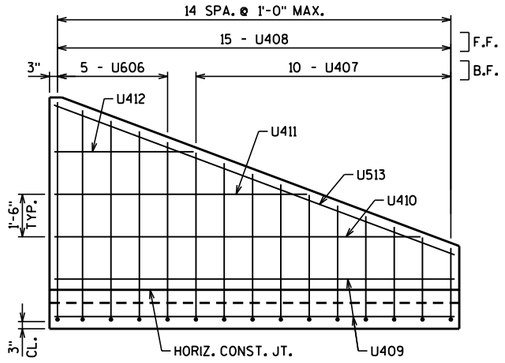
WING 1



WING 3

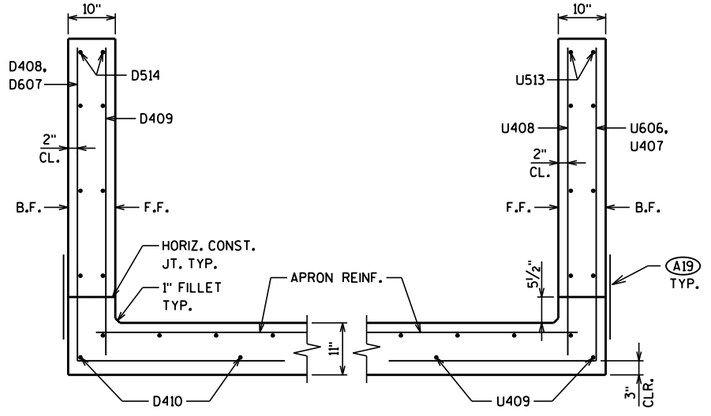


WING 2



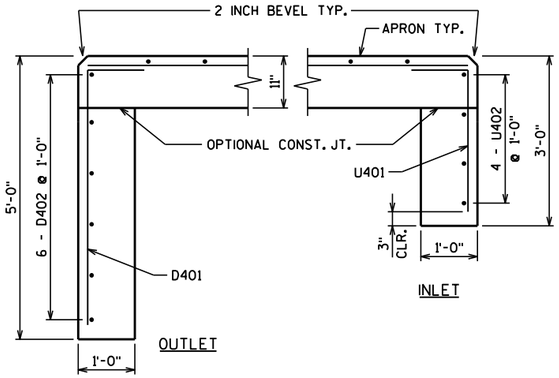
WING 4

A19 18" RUBBERIZED MEMBRANE WATERPROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH.



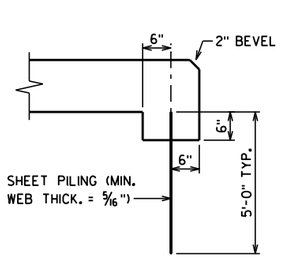
SECTION THRU WINGS

NORMAL TO WING WALLS



SECTION THRU CUT-OFF WALLS

NORMAL TO WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-50-19

DRAWN BY BRE | PLANS CK'D. JAW

APRON DETAILS

SHEET 3 OF 5

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STATE PROJECT NUMBER
9216-07-60

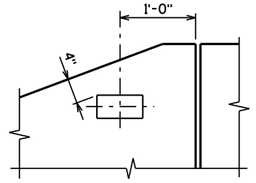
BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	SERIES	BENT	LOCATION
D401		22	5'-6"		X	OUTLET CUTOFF WALL
D402		6	20'-10"			OUTLET CUTOFF WALL
D403		13	18'-5"	△		OUTLET APRON
D404		16	12'-8"			OUTLET APRON
D405		2	9'-8"			OUTLET APRON
D406		2	6'-0"			OUTLET APRON
D607	X	10	13'-3"	△	X	OUTLET WINGS VERTICAL B.F.
D408	X	18	9'-2"	△	X	OUTLET WINGS VERTICAL B.F.
D409	X	28	5'-1"	△		OUTLET WINGS VERTICAL F.F.
D410	X	8	12'-10"			OUTLET WINGS HORIZONTAL
D411	X	4	11'-9"			OUTLET WINGS HORIZONTAL
D412	X	4	8'-1"			OUTLET WINGS HORIZONTAL
D413	X	4	4'-6"			OUTLET WINGS HORIZONTAL
D514	X	4	13'-8"			OUTLET WINGS HORIZONTAL, TOP
U401		29	3'-6"		X	INLET CUTOFF WALL
U402		4	28'-9"			INLET CUTOFF WALL
U403		13	22'-0"	△		INLET APRON
U404		16	12'-8"			INLET APRON
U405		12	7'-0"	△		INLET APRON
U606	X	10	12'-9"	△	X	INLET WINGS VERTICAL B.F.
U407	X	20	9'-3"	△	X	INLET WINGS VERTICAL B.F.
U408	X	30	5'-2"	△		INLET WINGS VERTICAL F.F.
U409	X	8	14'-1"			INLET WINGS HORIZONTAL
U410	X	4	12'-11"			INLET WINGS HORIZONTAL
U411	X	4	8'-11"			INLET WINGS HORIZONTAL
U412	X	4	4'-11"			INLET WINGS HORIZONTAL
U513	X	4	15'-0"			INLET WINGS HORIZONTAL, TOP

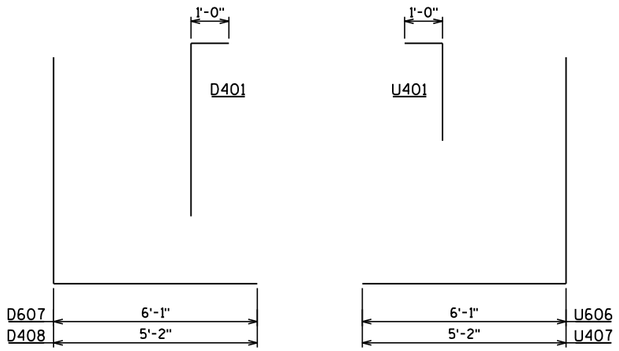
△ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

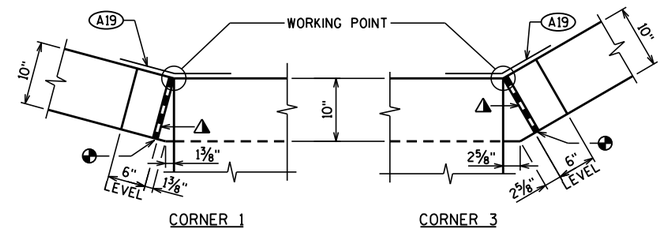
BAR NO.	NO. REQ'D.	LENGTH
D403	1 SERIES OF 13	15'-3" TO 21'-7"
D607	2 SERIES OF 5	12'-0" TO 13'-6"
D408	2 SERIES OF 9	7'-7" TO 10'-9"
D409	2 SERIES OF 14	2'-6" TO 7'-8"
U403	1 SERIES OF 13	15'-1" TO 28'-11"
U405	2 SERIES OF 6	2'-8" TO 11'-4"
U606	2 SERIES OF 5	12'-0" TO 13'-6"
U407	2 SERIES OF 10	7'-8" TO 10'-10"
U408	2 SERIES OF 15	2'-7" TO 7'-9"

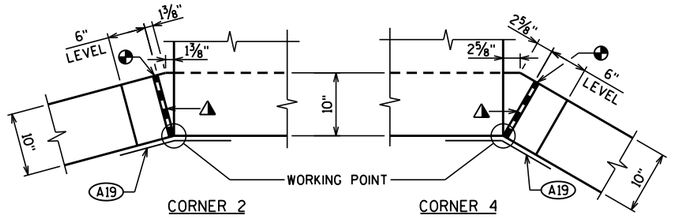


NAME PLATE
LOCATION WING 4



BAR BEND DIAGRAMS





CORNER DETAILS

△ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◔ 1" BEVEL TYPICAL

(A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. FROM HORIZ. CONST. JT. TO TOP OF WALL (FLUSH WITH FACE OF CONCRETE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-50-19

DRAWN BY BRE | PLANS CK'D. JAW

DETAILS

SHEET 4 OF 5

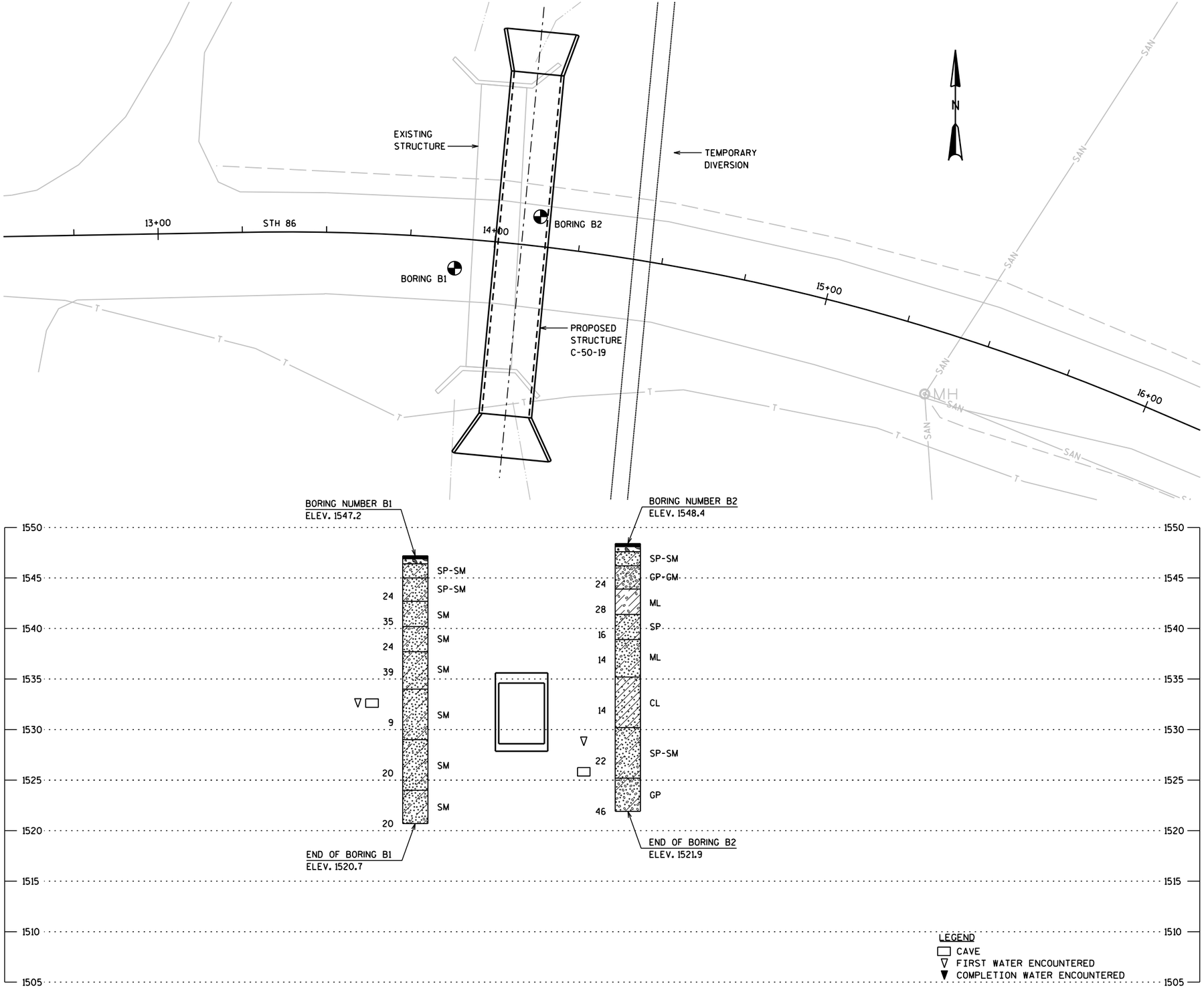
35

8

8

STATE PROJECT NUMBER

9216-07-60



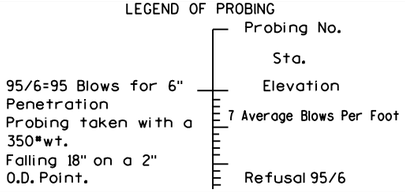
ABBREVIATIONS

F — Fine M — Medium C — Coarse
Ws — Weathered So — Sound

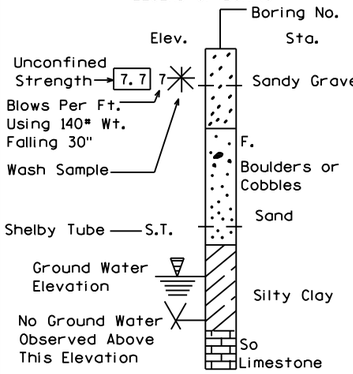
MATERIAL SYMBOLS

Topsoil, Silt, Sandstone
Sand, Peat, Limestone
Gravel, Clay, Igneous Rock

LEGEND OF PROBING



LEGEND OF BORING



Unless otherwise specified, the blows per foot at the locations indicated are based on driving a O.D. x 1. 4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-50-19

DRAWN BY BRE PLANS CK'D. KRO

SUBSURFACE EXPLORATION

SHEET 5 OF 5

36

8

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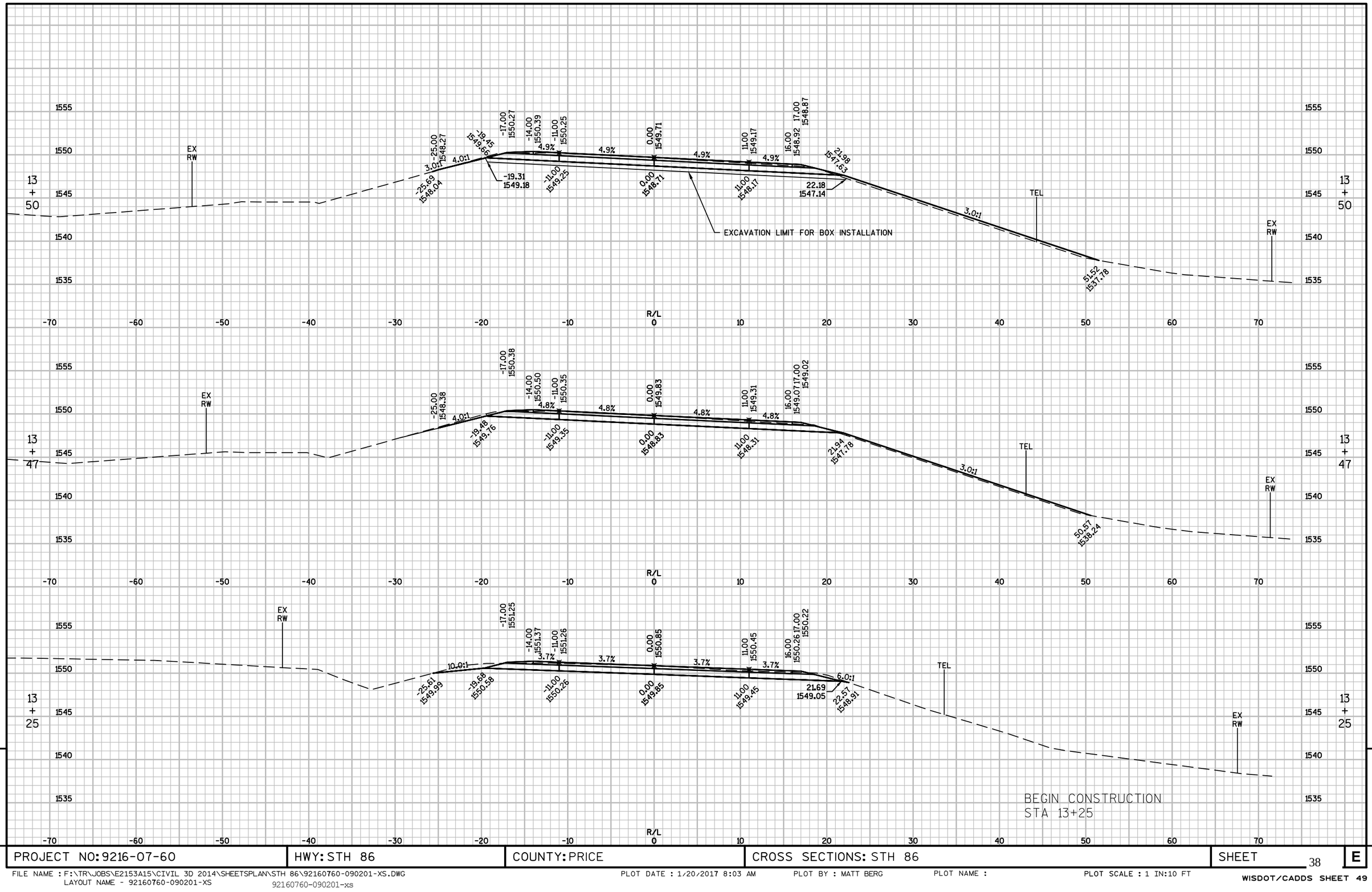
FILE NAME : F:±TR±JOBS±E2153A15±Sheets±C-50-19_STH 86±C-50-19 05 sub explr.dgn PLOT BY : EpleyB PLOT DATE: 11/22/2016 5:08:06 PM

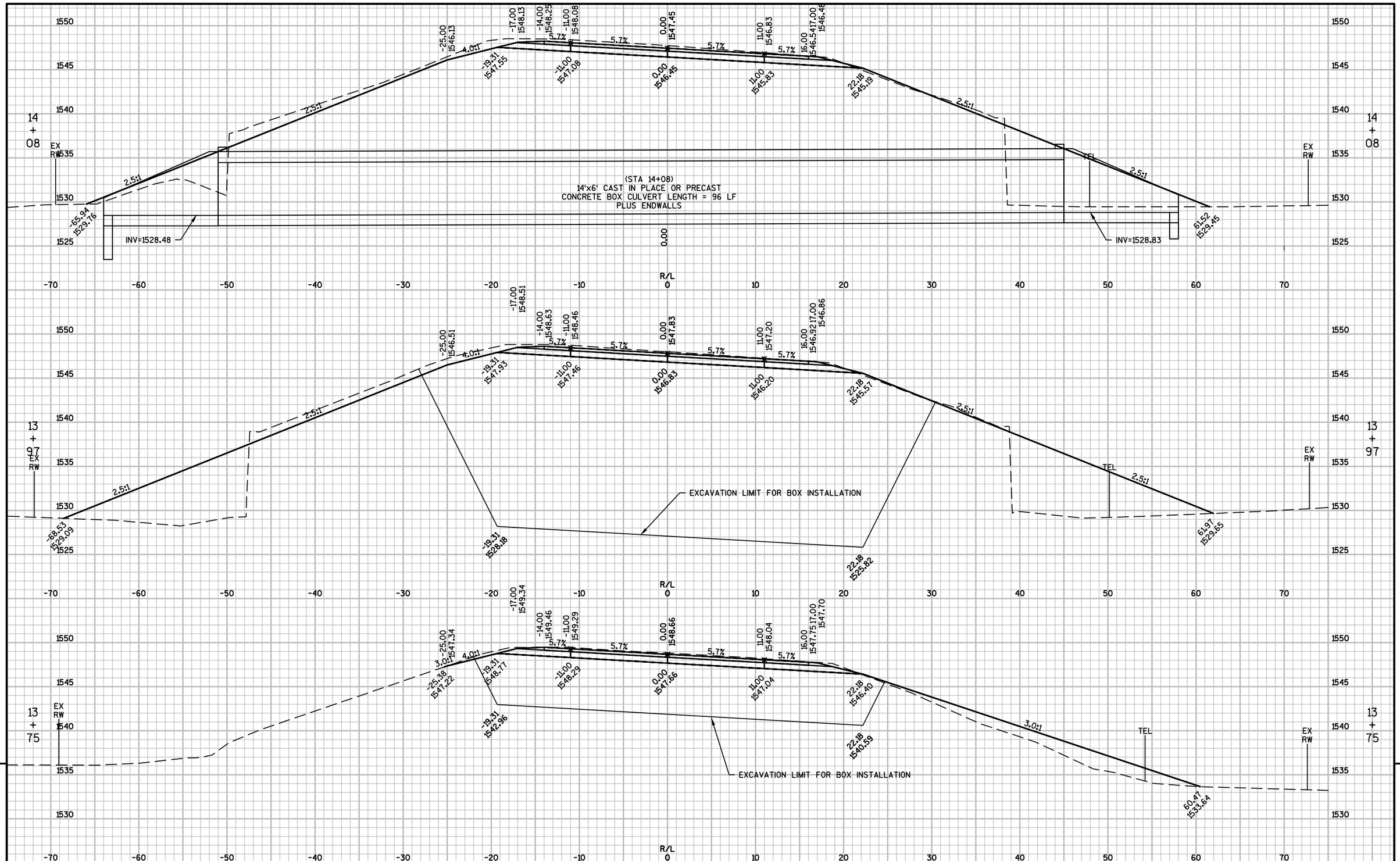
STH 86 EARTHWORK - CATEGORY 0010

STATION	INCREMENTAL AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			MASS ORDINATE
	CUT	FILL	MARSH EXC	BOX EXC NOTE 3	CUT	FILL	MARSH EXC	BOX EXC	CUT + BOX EXC	EXPANDED FILL	EXPANDED MARSH BACKFILL	
	NOTE 1								FACTOR 1.00	FACTOR 1.25	FACTOR 1.50	NOTE 2
START ABRUPTLY												
13+25	36.8	0.0	0.0	0.0	0	0	0	0	0	0	0	0
13+47	35.2	5.0	0.0	0.0	30	2	0	0	30	3	0	27
13+50	34.0	7.9	0.0	19.7	4	1	0	1	34	3	0	31
13+73	42.8	35.6	0.0	188.7	32	18	0	88	154	26	0	128
13+75	43.6	39.4	0.0	255.4	4	3	0	19	177	30	0	146
13+97	68.6	1.5	0.0	985.7	46	17	0	510	732	51	0	681
14+00	71.6	1.5	0.0	NOTE 4	7	0	0	0	740	51	0	688
14+08	72.7	1.5	0.0	NOTE 4	21	0	0	0	761	52	0	709
14+19	55.2	13.5	0.0	943.2	26	3	0	0	787	56	0	731
14+25	53.9	11.1	79.0	702.3	12	3	9	188	987	59	14	928
14+40	54.1	16.1	88.0	180.1	30	8	47	247	1,264	69	84	1196
14+50	56.8	8.9	90.0	115.2	20	5	33	54	1,339	74	133	1264
14+69	58.3	3.0	0.0	0.0	40	4	31	40	1,419	80	180	1339
14+75	58.8	0.6	0.0	0.0	13	0	0	0	1,432	80	180	1352
15+00	61.6	0.0	0.0	0.0	56	0	0	0	1,488	81	180	1408
15+25	54.8	0.0	0.0	0.0	54	0	0	0	1,542	81	180	1462
15+50	45.2	0.1	0.0	0.0	46	0	0	0	1,588	81	180	1508
END ABRUPTLY												

NOTES:
1. ALL EXCAVATED ASPHALT MATERIAL ASSUMED USABLE AS FILL.
2. MASS ORDINATE = CUT - EXPANDED FILL
3. BOX EXC IS EXCAVATION COMMON REQUIRED FOR BOX INSTALLATION. SEE BOX CULVERT EXCAVATION AND INSTALLATION DETAIL.
4. END BOX EXC ABRUPTLY STA 13+97 AND BEGIN ABRUPTLY STA 14+19.

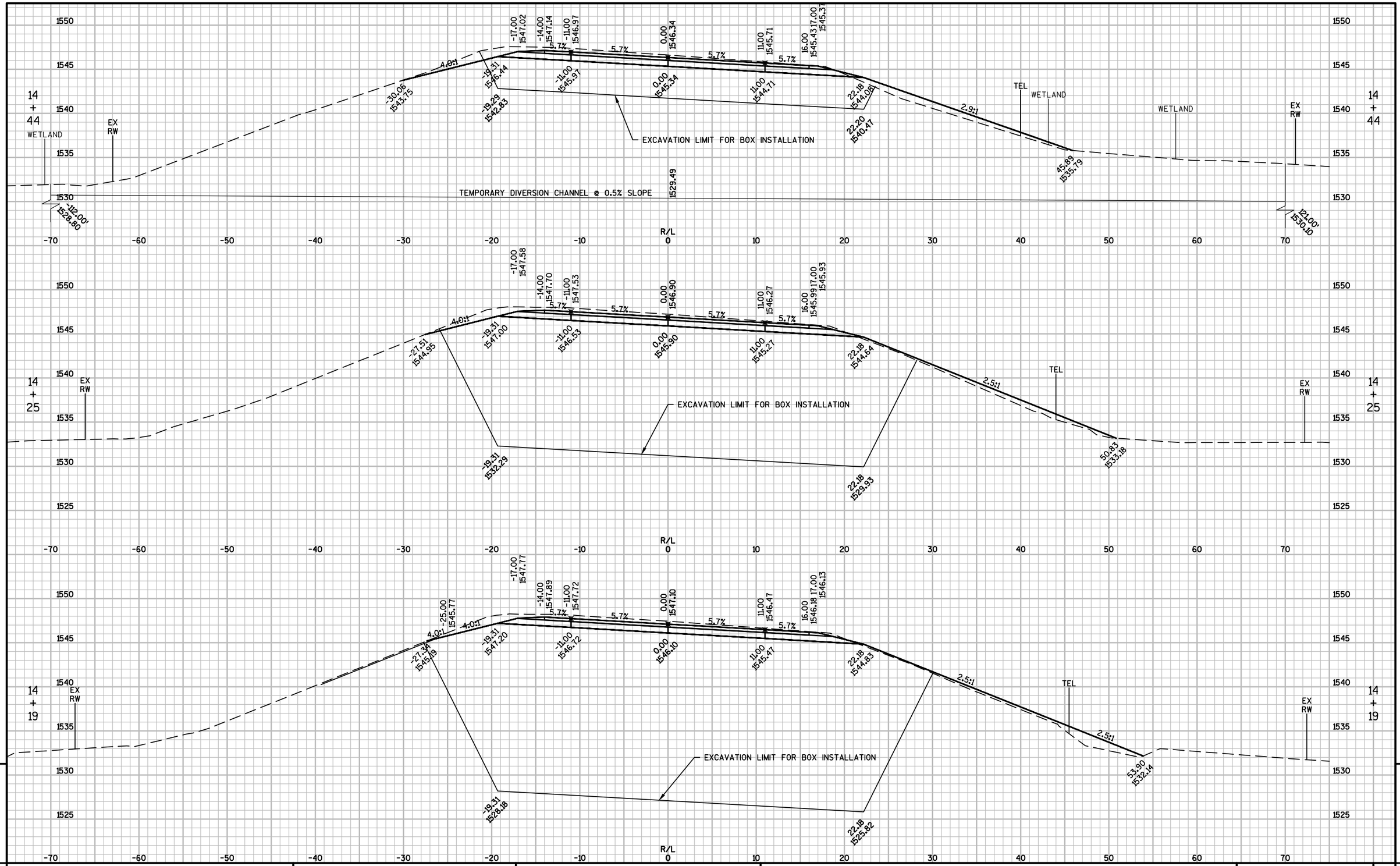


PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	CROSS SECTIONS: STH 86	SHEET 38	E



PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	CROSS SECTIONS: STH 86	SHEET 39	E

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-090201-XS.DWG
LAYOUT NAME - 92160760-090202-XS
92160760-090202-xs
PLOT DATE : 1/20/2017 8:03 AM PLOT BY : MATT BERG PLOT NAME : PLOT SCALE : 1 IN:10 FT



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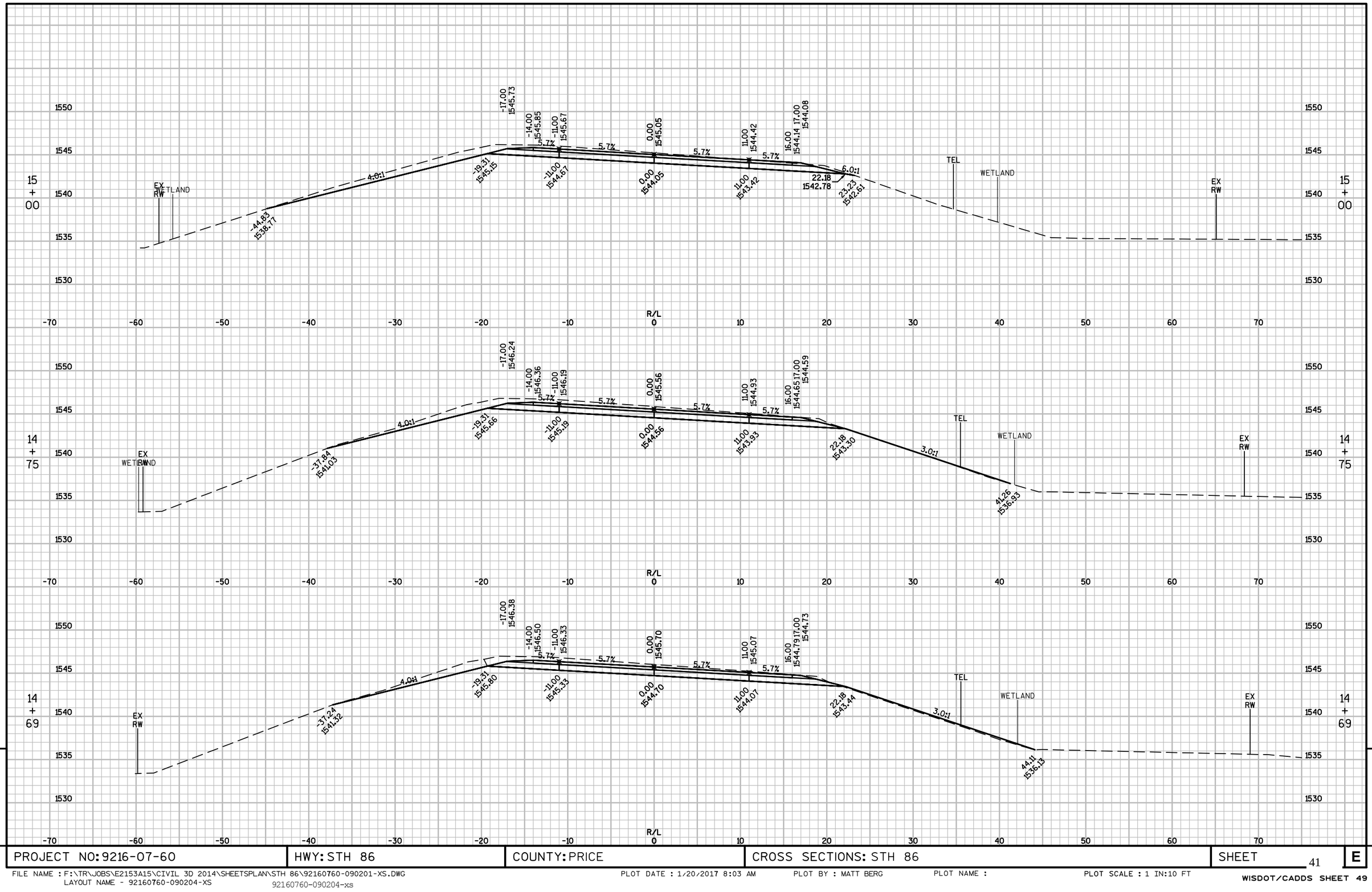
PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	CROSS SECTIONS: STH 86	SHEET 40	E

9

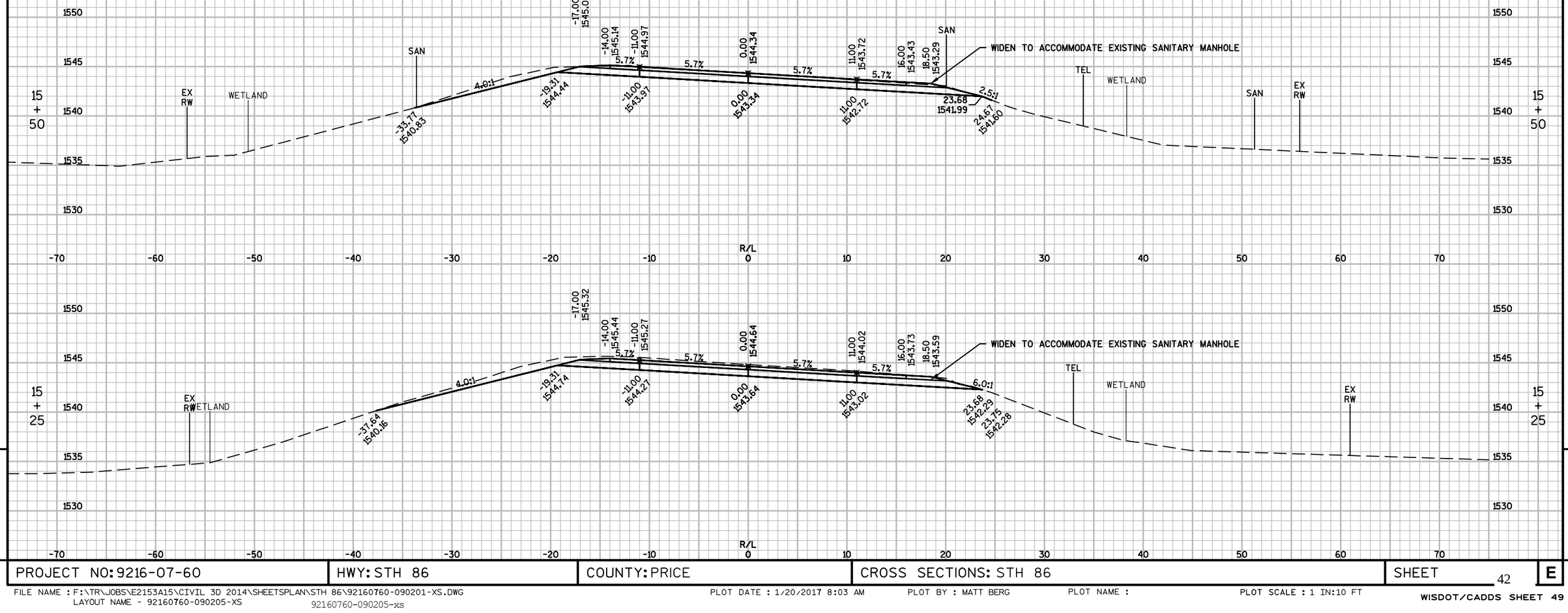
FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-090201-XS.DWG
LAYOUT NAME - 92160760-090203-XS
92160760-090203-xs
PLOT DATE : 1/20/2017 8:03 AM
PLOT BY : MATT BERG
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	CROSS SECTIONS: STH 86	SHEET 41	E

END CONSTRUCTION STA 15+50



9

PROJECT NO: 9216-07-60	HWY: STH 86	COUNTY: PRICE	CROSS SECTIONS: STH 86	SHEET 42	E

FILE NAME : F:\TR\JOBS\E2153A15\CIVIL 3D 2014\SHEETSPLAN\STH 86\92160760-090201-XS.DWG
LAYOUT NAME - 92160760-090205-XS
92160760-090205-xs
PLOT DATE : 1/20/2017 8:03 AM PLOT BY : MATT BERG PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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