WIS

APRIL 2018

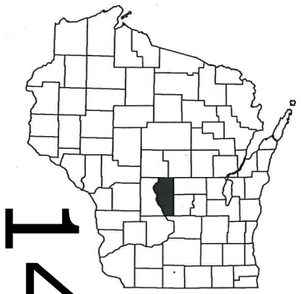
PROJECT ID: 6140-00-66

WITH: N/A

COUNTY: ADAMS

ORDER OF SHEETS

TOTAL SHEETS = 50



14

N

DESIGN DESIGNATION

A.A.D.T.	2018	= 3400
A.A.D.T.	2038	= 4300
D.H.V.		= 10.3
D.D.		= 60/40
T.		= 7.1%
DESIGN SPEED		= 60 MPH
ESALS		= N/A

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 (300'EB)
- 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 —
- OVERHEAD UTILITY — OH —
- 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
6140-00-66		

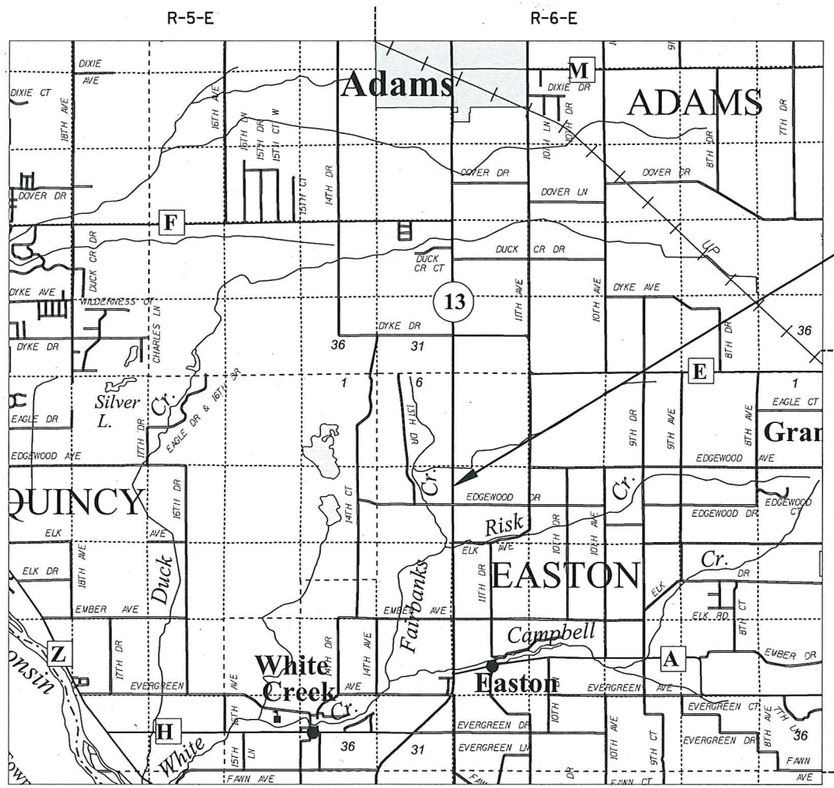
WISCONSIN DELLS - ADAMS

CULVERT REPLACEMENT

STH 13

ADAMS COUNTY

STATE PROJECT NUMBER
6140-00-66



LAYOUT

SCALE 0 2 MILES

TOTAL NET LENGTH OF CENTERLINE = 0.00 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ADAMS COUNTY, NAD83 (2012), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NC REGION
Designer	ZACHARY GRULING
Project Manager	MARK STEIDL
Regional Examiner	CHERYL SIMON
Regional Supervisor	MICHAEL KRETSCHMER

APPROVED FOR THE DEPARTMENT

DATE: 10/18/17 (Signature)

E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\010101-TI.DWG
LAYOUT NAME - HAPPY BIRTHDAY MOM

PLOT DATE : 9/28/2017 11:50 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

PAPCCS - PIPE ARCH POLY COATED CORRUGATED STEEL

Q2 = 18 CFS

SECTION 2 ORDER

General Notes
Project Overview
Typical Section
Construction Details
Erosion Control
Traffic Control

AS-BUILT REFERENCE (YEAR)*

DJ4669 (1932)
6140-03-71 (1973)
6143-05-71 (1996)
6140-00-84 (2012)

*Approval Year (Not Construction)

HMA LAYERS

2" 4 LT 58-28 S Upper
2" 4 LT 58-28 S Lower
2" 4 LT 58-28 S Lower

ENVIRONMENTAL CONTACTS

WI Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711
Attn: Andy Barta
Phone: (608) 275-3308

UTILITY CONTACTS

Adams - Columbia Electric - Electricity
Jon Trzesniak
PO Box 70
Friendship, WI 53934
1-800-831-8629 Ext 244
jtresniak@acecwi.com

Frontier - Communication Line
Jerry Moore
2222 West WI Street
Portage, WI 53901
(608) 742-9507
(608) 346-0353
jerald.r.moore@ftr.com

Marquette - Adams Telephone - Communication Line
Jason Sengbusch
113 N Oxford Street
Oxford, WI 53952
(608) 586-7070
jsengbusch@maadtelco.com

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

2

2

Adams

M

N

F

13

E

E

01-013-0040

EDGEWOOD DR

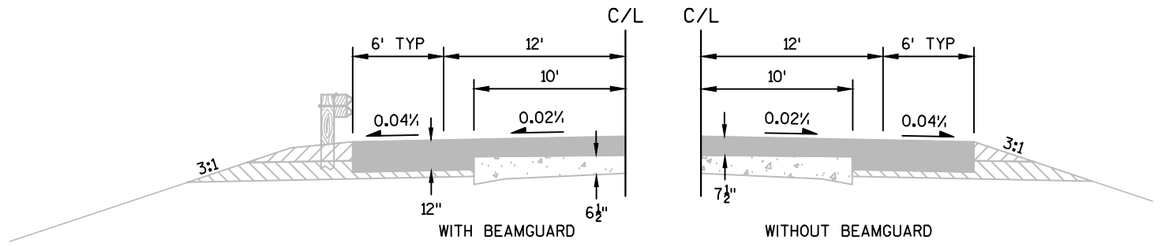
B

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - ****

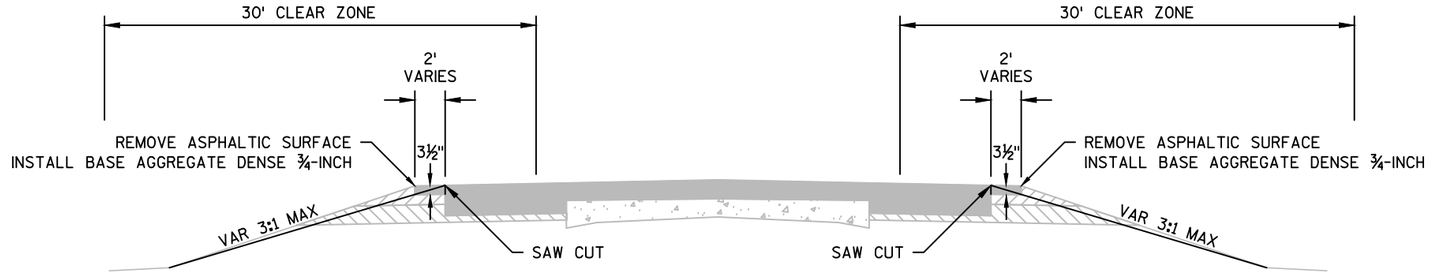
PLOT DATE : 8/7/2017 3:32 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

STA 840+25 TO STA 844+75



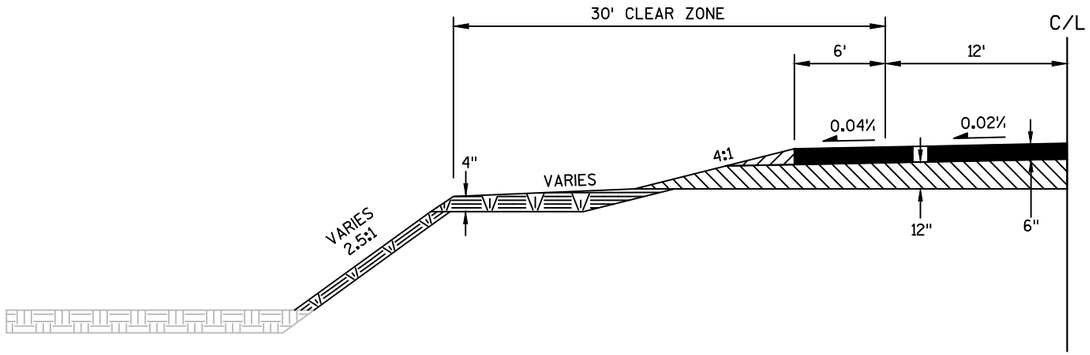
PROPOSED TYPICAL SECTION

STA 840+25 TO STA 842+25
STA 842+93 TO STA 844+75

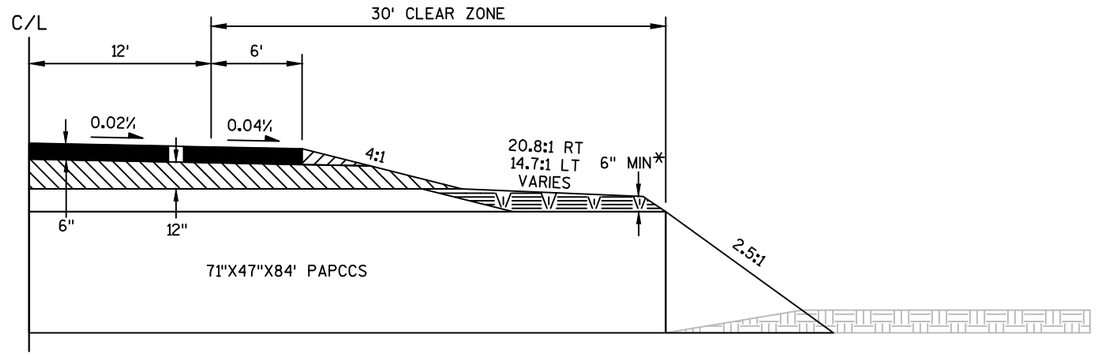
LEGEND

- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE 1¼-INCH
- EXISTING BASE AGGREGATE DENSE ¾-INCH
- EXISTING NON-REINFORCED CONCRETE PAVEMENT

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TYPICAL SECTION	SHEET 4	E



NOT AT CULVERT



AT CULVERT

PROPOSED TYPICAL SECTION

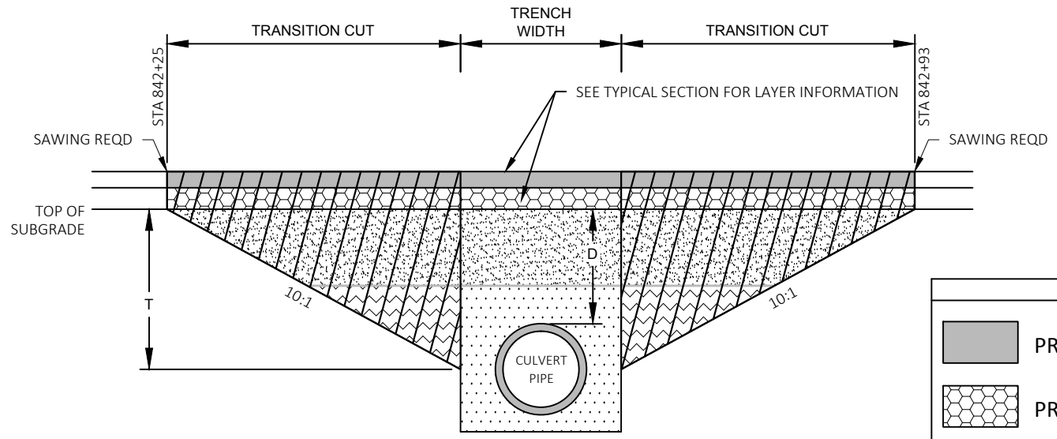
STA 842+25 TO STA 842+97

LEGEND

- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE 1¼-INCH
- EXISTING BASE AGGREGATE DENSE ¾-INCH
- EXISTING NON-REINFORCED CONCRETE PAVEMENT
- EXISTING GROUND
- HMA PAVEMENT 4 LT 58-28 S
- BASE AGGREGATE DENSE 1¼-INCH
- BASE AGGREGATE DENSE ¾-INCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B

* WHEN DEPTH OVER CULVERT IS 6" OR LESS, USE TOPSOIL FOR ENTIRE THICKNESS

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TYPICAL SECTION	SHEET 5	E



TRANSITION CUT DEPTH (T) = THE LESSER OF
DEPTH TO CENTER OF PIPE OR 5 FT.
DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.

DEPTH D < 6 FT

LEGEND

- PROPOSED SURFACE
- PROPOSED BASE
- TRENCH BACKFILL
- TRENCH OR FOUNDATION BACKFILL
- FOUNDATION BACKFILL
- TRANSITION CUT

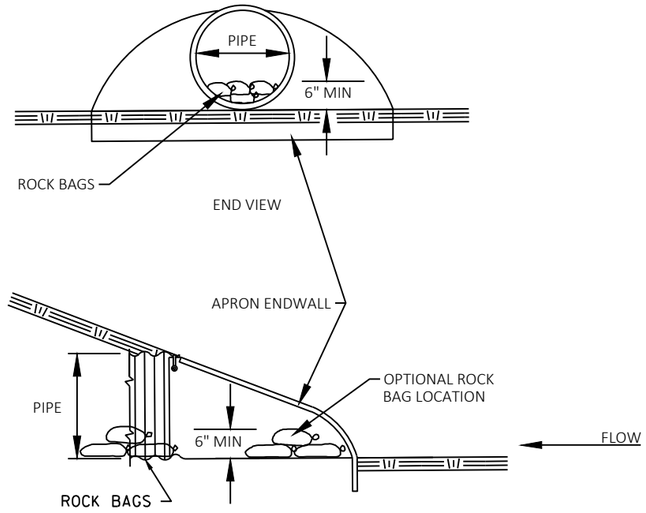
NOTES

TRANSITION CUT IS PAID AS EXCAVATION COMMON.
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
TRENCH BACKFILL AND FOUNDATION BACKFILL USED IN TRANSITION CUT AREA IS INCIDENTAL TO PIPE INSTALLATION (PER STD SPEC 520).

CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS
STH 13	842+63	2	71x47	01-013-0040

2

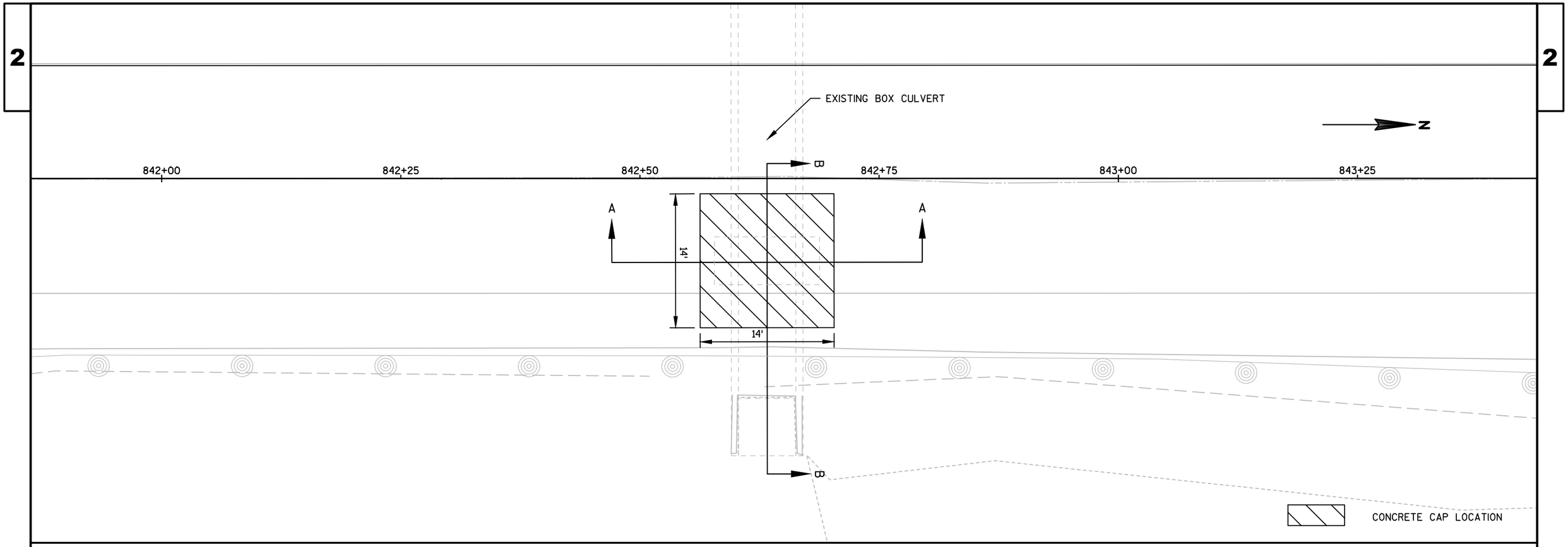


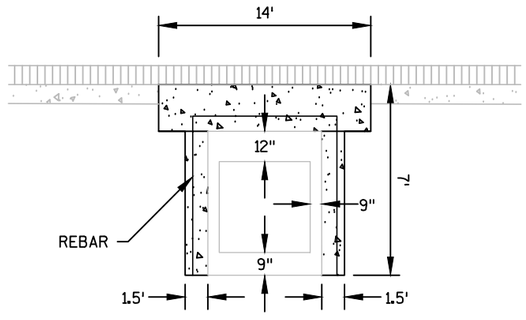
SIDE VIEW

CULVERT PIPE CHECK

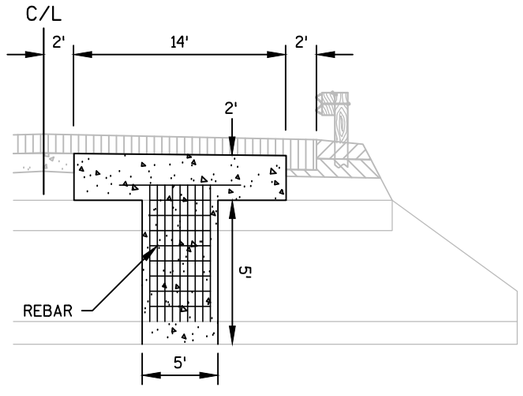
(INSTALL ON INLET END ONLY)

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CONSTRUCTION DETAILS: CULVERT PIPE CHECK	SHEET 7	E





SECTION A-A



SECTION B-B

DIMENSIONS OF CONCRETE CAP ARE APPROXIMATE

CONCRETE CAP IS APPROXIMATELY 10 CY

REMOVAL OF EXISTING CONCRETE CAP IS INCIDENTAL TO THE REMOVING STRUCTURE BID ITEM

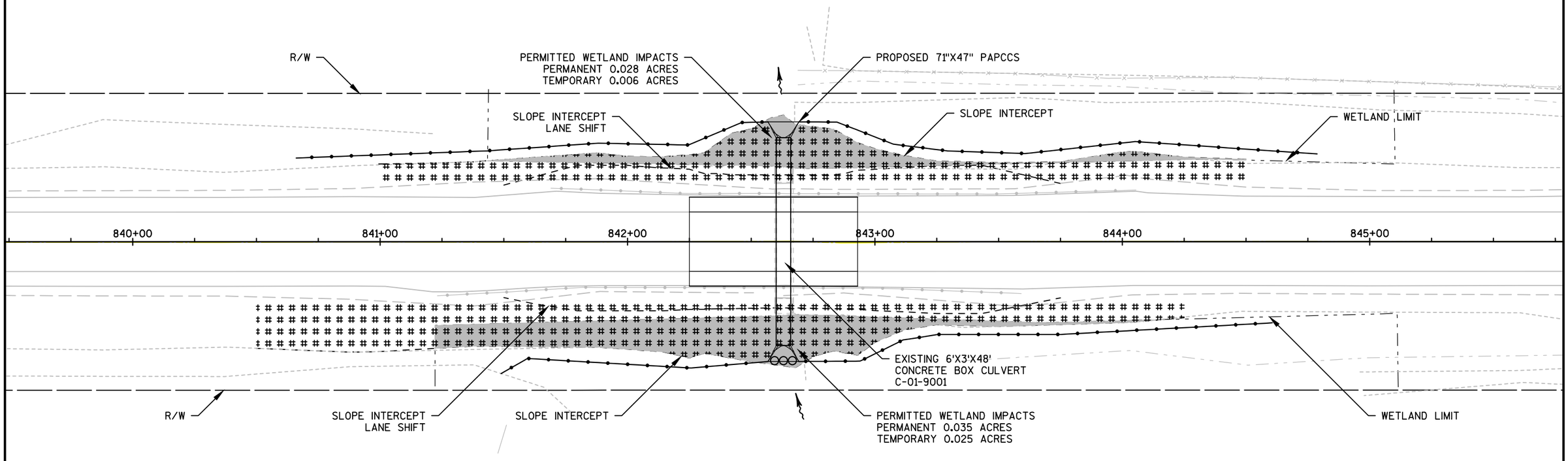
REBAR NOT SHOWN TO SCALE

EXISTING CONCRETE CAP

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CONSTRUCTION DETAILS: EXISTING CONCRETE CAP REMOVAL	SHEET 8	E

2

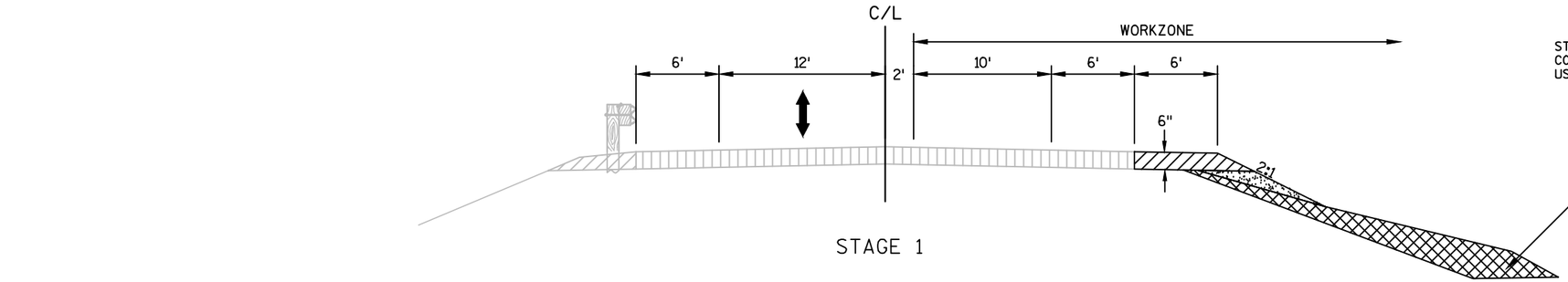
N



LEGEND

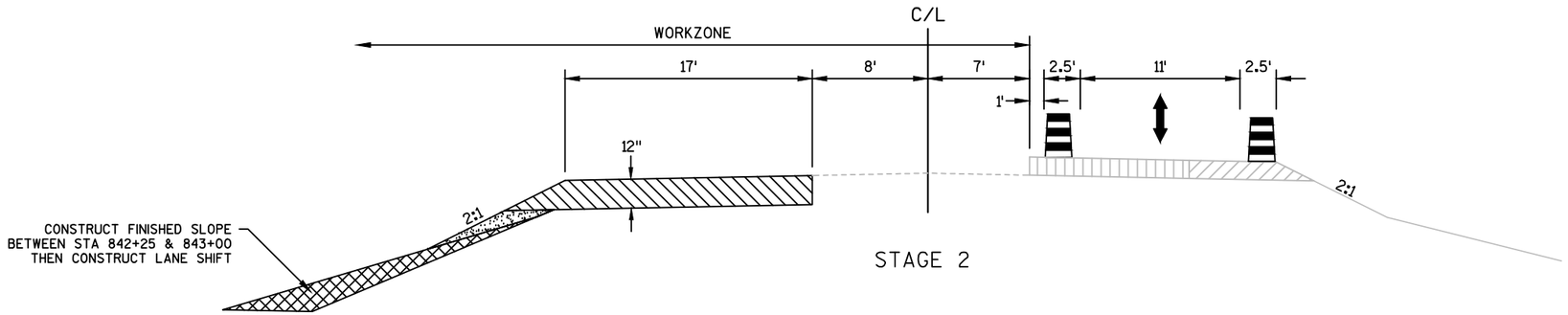
- ###### EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SURFACE WATER FLOW
- PERMITTED WETLAND IMPACTS
- CULVERT PIPE DITCH CHECK

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	EROSION CONTROL	SHEET 9	E



STAGE 1

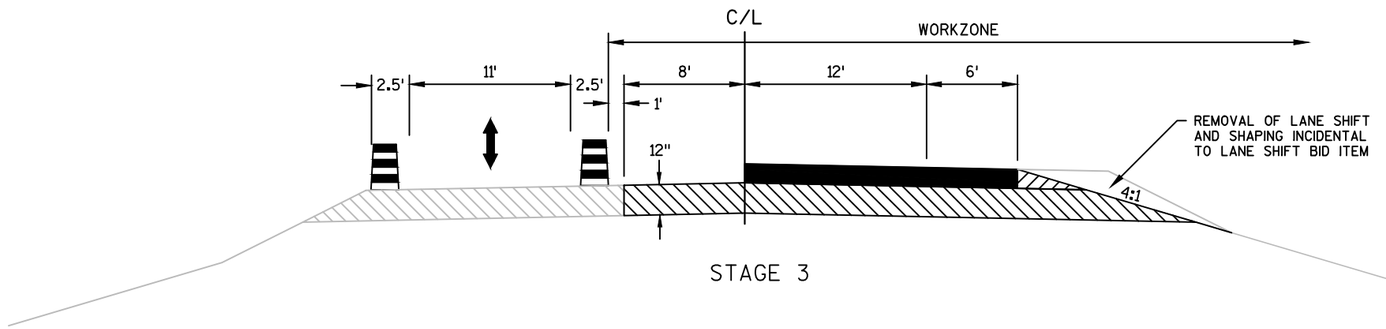
STAGE 1 NOTES:
CONSTRUCT EAST SLOPE AND LANE SHIFT
USING A FLAGGING OPERATION



STAGE 2

STAGE 2 NOTES:
INSTALL WEST HALF OF CULVERT PIPE USING
TEMPORARY TRAFFIC CONTROL SIGNALS

CONSTRUCT LANE SHIFT FOR STAGE 3



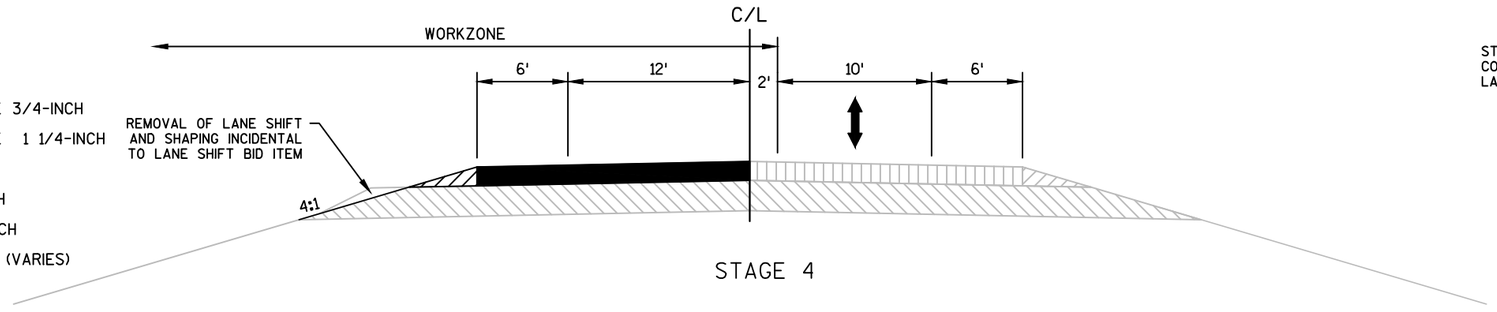
STAGE 3

STAGE 3 NOTES:
INSTALL EAST HALF OF CULVERT PIPE USING
TEMPORARY TRAFFIC CONTROL SIGNALS

REMOVE EAST LANE SHIFT

LEGEND

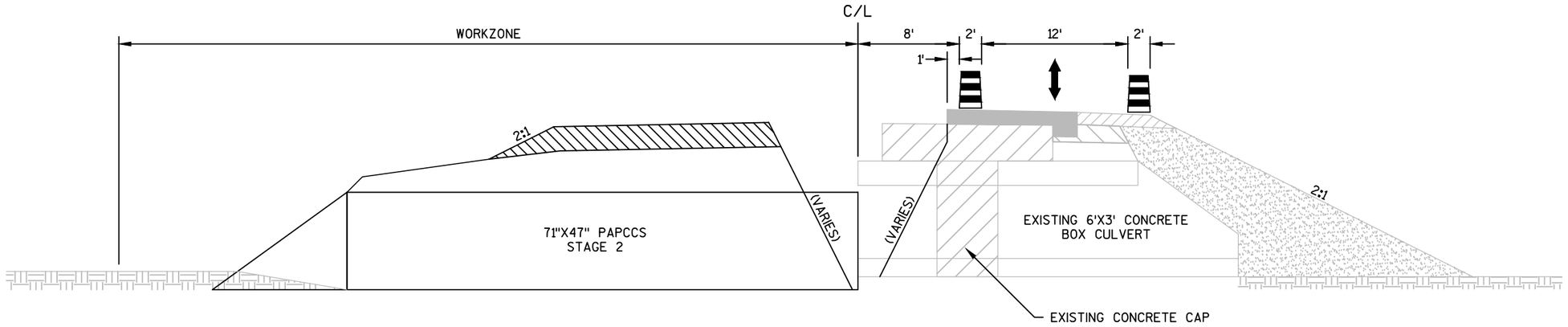
- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE 3/4-INCH
- EXISTING BASE AGGREGATE DENSE 1 1/4-INCH
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- EXCAVATION COMMON OR BORROW (VARIES)
- LANE SHIFT GRADING



STAGE 4

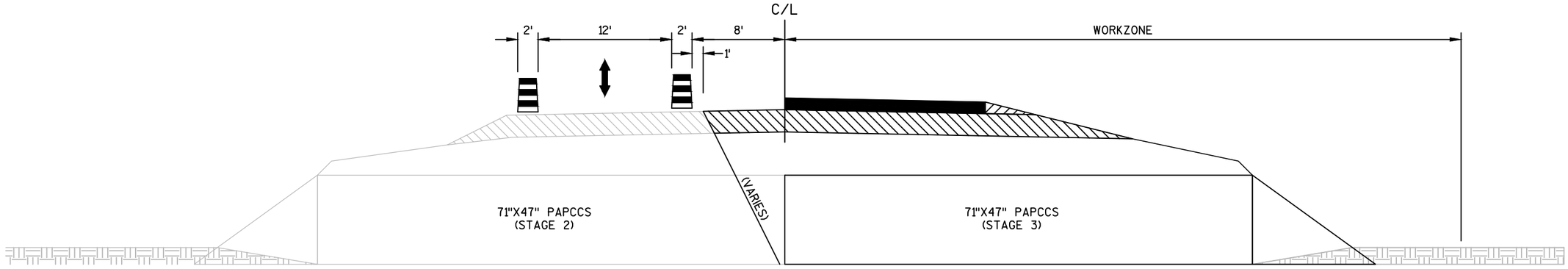
STAGE 4 NOTES:
COMPLETE PAVING AND REMOVE WEST
LANE SHIFT USING A FLAGGING OPERATION

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TRAFFIC CONTROL: TYPICAL SECTION - STAGE 1 TO STAGE 4	SHEET 10	E



TYPICAL SECTION - LANE SHIFT AT CULVERT

STAGE 2



LEGEND

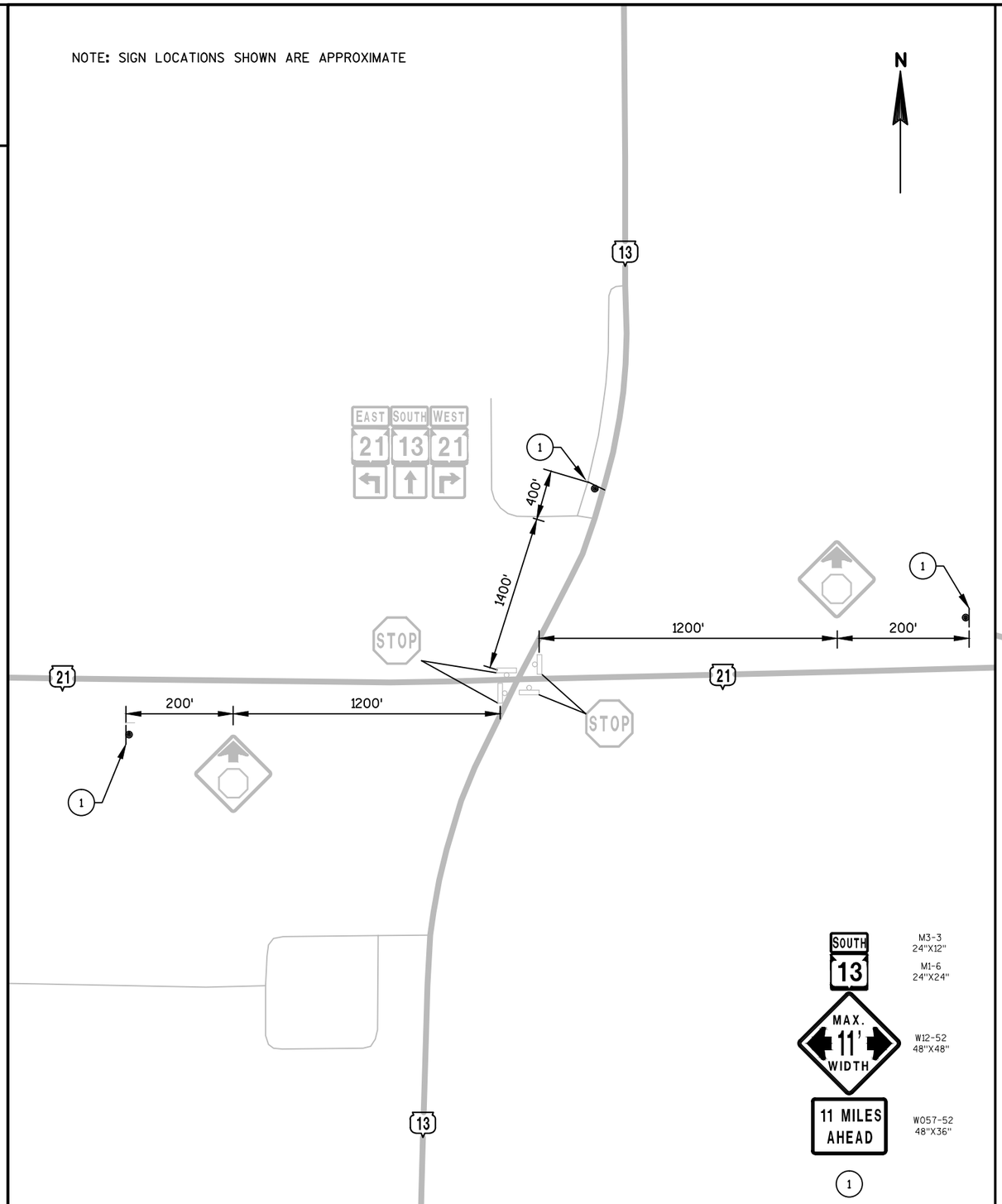
- EXISTING HMA PAVEMENT
- EXISTING BASE AGGREGATE DENSE 1 1/4-INCH
- EXISTING BASE AGGREGATE DENSE 3/4-INCH
- EXISTING GROUND
- LANE SHIFT (FILL)
- HMA PAVEMENT
- BASE AGGREGATE DENSE 1 1/4-INCH
- BASE AGGREGATE DENSE 3/4-INCH

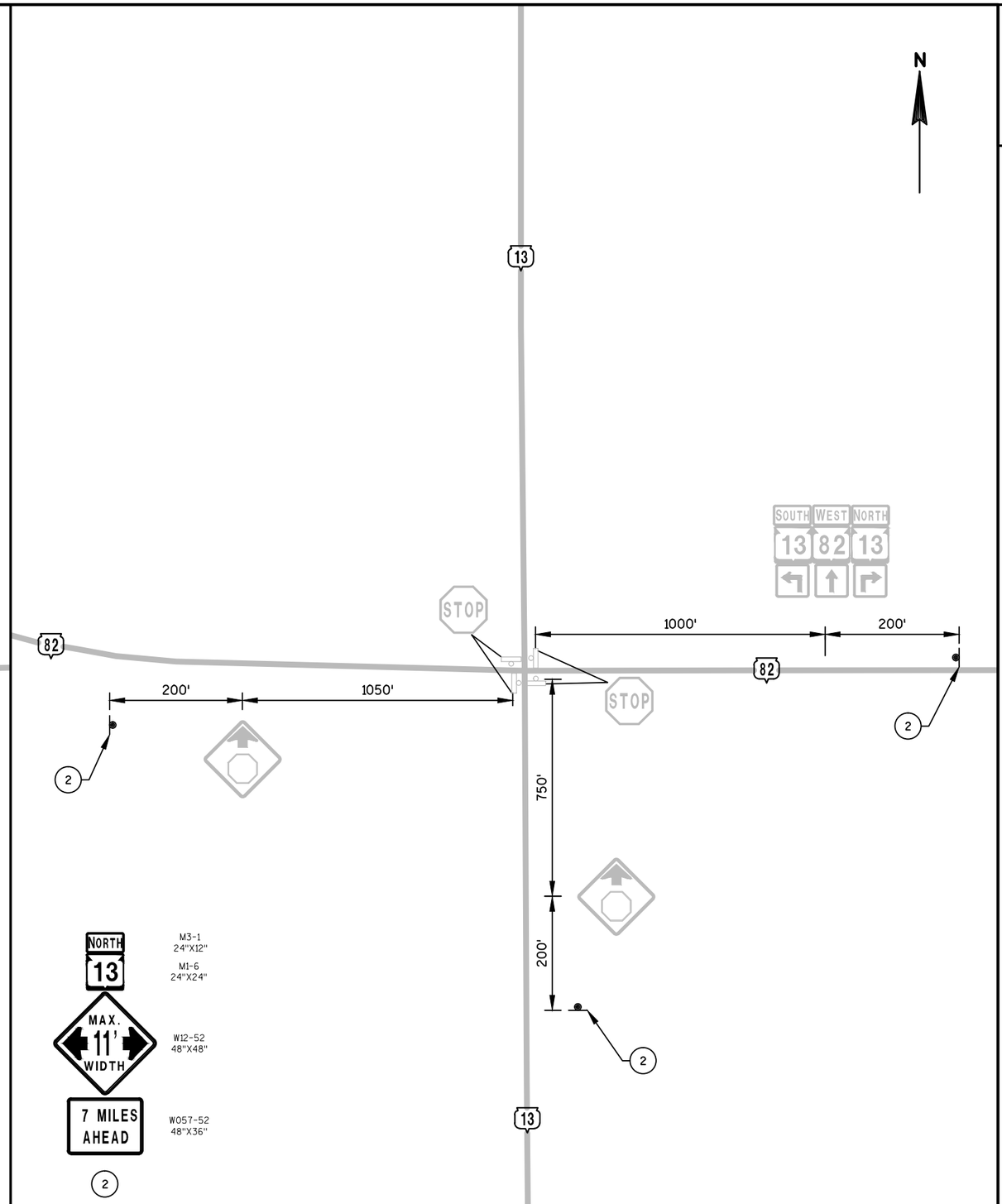
TYPICAL SECTION - LANE SHIFT AT CULVERT

STAGE 3

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TRAFFIC CONTROL: TYPICAL SECTION - LANE SHIFT AT CULVERT	SHEET 11	E

NOTE: SIGN LOCATIONS SHOWN ARE APPROXIMATE

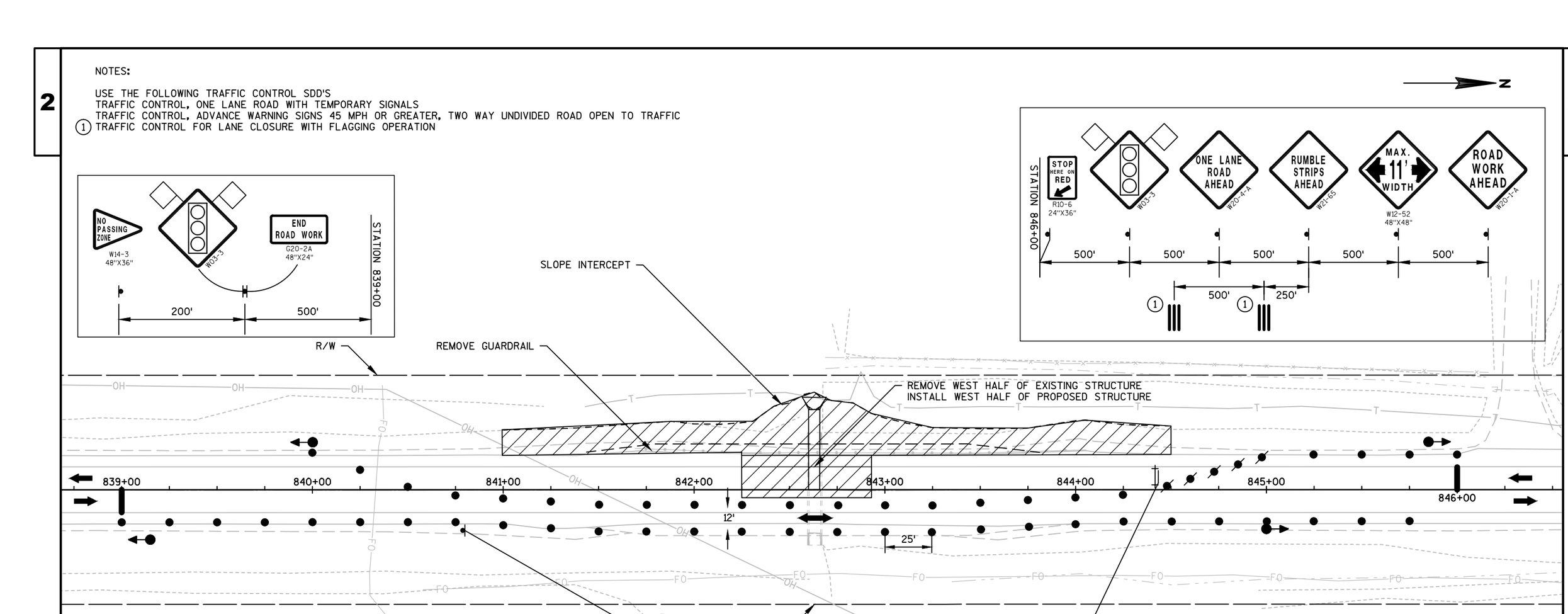


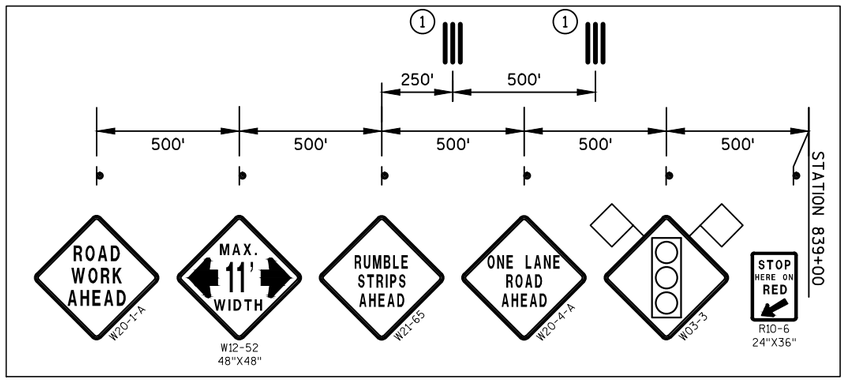


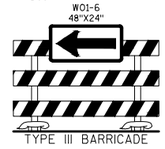
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TRAFFIC CONTROL: STAGE 2 & 3 WIDTH RESTRICTION SIGNING	SHEET 12	E

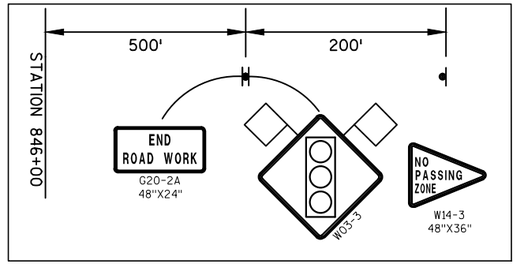
NOTES:

USE THE FOLLOWING TRAFFIC CONTROL SDD'S
TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
(1) TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION









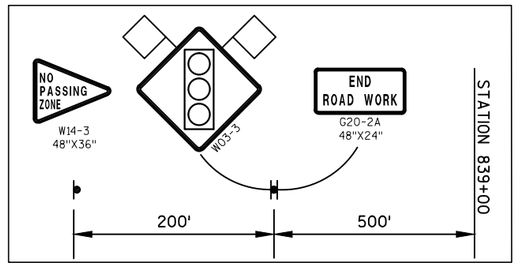
LEGEND

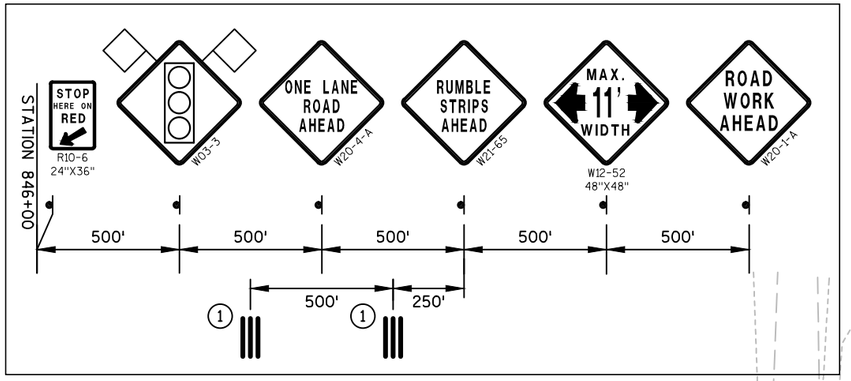
- WORK AREA
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- TEMPORARY PORTABLE SIGNAL
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY

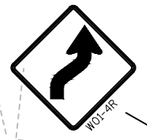
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TRAFFIC CONTROL - STAGE 2	SHEET 13	E

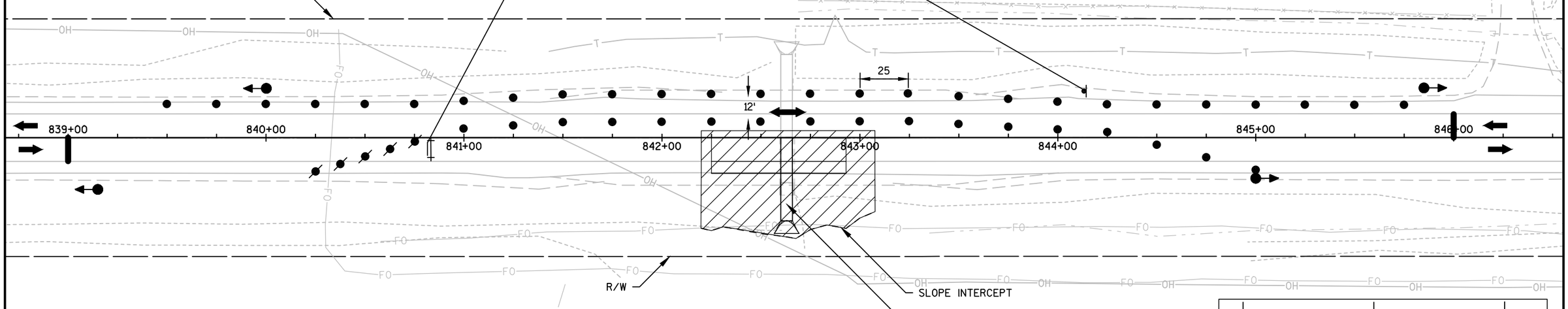
NOTES:

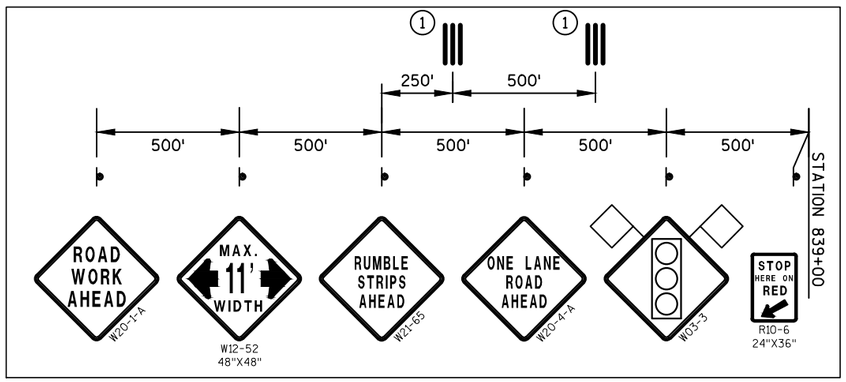
USE THE FOLLOWING TRAFFIC CONTROL SDD'S
TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
(1) TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

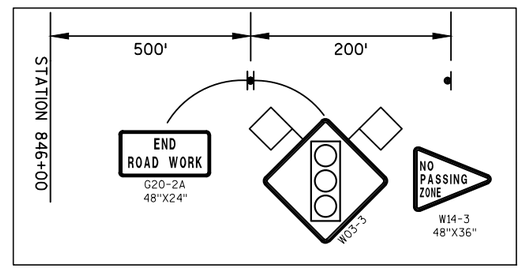












LEGEND

- WORK AREA
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- TEMPORARY PORTABLE SIGNAL
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	TRAFFIC CONTROL - STAGE 3	SHEET 14	E

6140-00-66

Line	Item	Item Description	Unit	Total	Qty
0002	203.0200	Removing Old Structure (station) 01. 842+63	LS	1.000	1.000
0004	204.0100	Removing Pavement	SY	151.000	151.000
0006	204.0110	Removing Asphaltic Surface	SY	152.000	152.000
0008	204.0165	Removing Guardrail	LF	472.000	472.000
0010	205.0100	Excavation Common **P**	CY	471.000	471.000
0012	208.0100	Borrow **P**	CY	28.000	28.000
0014	213.0100	Finishing Roadway (project) 01. 6140-00-66	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	11.000	11.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	383.000	383.000
0020	455.0605	Tack Coat	GAL	20.000	20.000
0022	460.2000	Incentive Density HMA Pavement	DOL	70.000	70.000
0024	460.5224	HMA Pavement 4 LT 58-28 S	TON	94.000	94.000
0026	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	68.000	68.000
0028	521.1271	Apron Endwalls for Pipe Arch Steel 71x47-Inch	EACH	2.000	2.000
0030	521.5771	Pipe Arch Polymer Coated Corrugated Steel 71x47-Inch	LF	84.000	84.000
0032	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6140-00-66	EACH	1.000	1.000
0034	619.1000	Mobilization	EACH	1.000	1.000
0036	624.0100	Water	MGAL	1.900	1.900
0038	625.0100	Topsoil	SY	1,099.000	1,099.000
0040	628.1504	Silt Fence	LF	709.000	709.000
0042	628.1520	Silt Fence Maintenance	LF	709.000	709.000
0044	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0048	628.2008	Erosion Mat Urban Class I Type B	SY	1,099.000	1,099.000
0050	628.7555	Culvert Pipe Checks	EACH	6.000	6.000
0052	629.0210	Fertilizer Type B	CWT	0.700	0.700
0054	630.0175	Seeding Mixture No. 75	LB	6.900	6.900
0056	633.5200	Markers Culvert End	EACH	2.000	2.000
0058	642.5001	Field Office Type B	EACH	1.000	1.000
0060	643.0300	Traffic Control Drums	DAY	348.000	348.000
0062	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0064	643.0420	Traffic Control Barricades Type III	DAY	6.000	6.000
0066	643.0715	Traffic Control Warning Lights Type C	DAY	72.000	72.000
0068	643.0900	Traffic Control Signs	DAY	310.000	310.000
0070	643.5000	Traffic Control	EACH	1.000	1.000
0072	646.1020	Marking Line Epoxy 4-Inch	LF	1,013.000	1,013.000
0074	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0076	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0078	650.9910	Construction Staking Supplemental Control (project) 01.	LS	1.000	1.000

6140-00-66

Line	Item	Item Description	Unit	Total	Qty
		6140-00-66			
0080	650.9920	Construction Staking Slope Stakes	LF	725.000	725.000
0082	661.0100	Temporary Traffic Signals for Bridges (structure) 01. 01-013-041	LS	1.000	1.000
0084	690.0150	Sawing Asphalt	LF	368.000	368.000
0086	690.0250	Sawing Concrete	LF	108.000	108.000
0088	SPV.0060	Special 01. Lane Shift Grading	EACH	2.000	2.000
0090	SPV.0105	Special 01. Temporary Water Diversion	LS	1.000	1.000

3

REMOVING OLD STRUCTURE

STATION	LOCATION	DESCRIPTION	203.0200 LS	STRUCTURE NUMBER
842+63	LT & RT	6' x 3' BOX CULVERT	1	C-01-9001
		TOTAL	1	

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	WIDTH FEET	204.0110 SY	REMARKS
842+25 - 842+93	LT	8	61	
842+25 - 842+93	RT	8	61	
841+02 - 841+82	RT	2	11	EAT BUMP OUT
841+38 - 842+10	LT	2	7	EAT BUMP OUT
843+26 - 844+22	RT	2	4	EAT BUMP OUT
843+58 - 844+46	LT	2	9	EAT BUMP OUT
		TOTAL	152	

3

REMOVING PAVEMENT

STATION - STATION	WIDTH FEET	204.0100 SY	REMARKS
842+25 - 842+93	20	151	
	TOTAL	151	

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF	REMARKS
841+23 - 843+59	RT	236	STAGE 1
841+69 - 844+05	LT	236	STAGE 2
	TOTAL	472	

EARTHWORK SUMMARY

Division	From/To Station	Location	ITEM # 205.0100 Common Excavation	Available Material	Unexpanded Fill	Expanded Fill Factor 1.25	Mass Ordinate +/-	Waste	ITEM # 208.0100 Borrow	Comment:
Stage 1	840+25 - 844+50	RT	97	97	100	125	-28	0	28	
Stage 2	840+75 - 844+75	LT	156	156	111	139	17	17	0	
Stage 1 Transition Cut	841+25 - 841+97	RT	109	109	0	0	109	0	0	
Stage 2 Transition Cut	841+25 - 841+97	LT	109	109	0	0	109	0	0	
Project Total			471	471	211	264	207	17	28	

FILE NAME : N:\pds\design_id\6140-00-36_STH_13_C-01-9001\Quantities\030201-mq.ppt PLOT DATE : February 6, 2018 PLOT BY : Zach Gruling ☺ PLOT NAME : Miscellaneous Quantities PLOT SCALE : 1:1

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
842+25 - 842+93	LT	5	119	
842+25 - 842+93	RT	5	119	
841+50 - 843+75	RT	---	63	LANE SHIFT - STAGE 2
841+50 - 843+75	LT	---	82	LANE SHIFT - STAGE 3
	TOTALS	11	383	

HMA PAVEMENT

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.5224 4 LT 58-28 S TON	REMARKS
842+25 - 842+93	LT	10	47	
842+25 - 842+93	RT	10	47	
	TOTALS	20	94	

ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL

STATION - STATION	LOCATION	465.0475 LF	REMARKS
842+25 - 842+93	CENTERLINE	68	
	TOTAL	68	

CROSS DRAINS

STATION	LOCATION	521.5771 PIPE ARCH POLYMER COATED CORRUGATED STEEL 71X47-INCH LF	521.1271 APRON ENDWALLS FOR PIPE ARCH STEEL 71X47-INCH EACH	633.5200 MARKERS CULVERT END EACH
842+63	LT & RT	84	2	2
	TOTALS	84	2	2

MOBILIZATIONS EROSION CONTROL

STATION - STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS
840+50 - 844+50	2	4	
TOTALS	2	4	

WATER

STATION - STATION	LOCATION	624.0100 MGAL	REMARKS
842+25 - 842+93	LT	1.2	STAGE 2
842+25 - 842+93	RT	0.6	STAGE 3
	TOTAL	1.9	

SILT FENCE

STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
841+49	RT	110	110
840+66	LT	193	193
842+69	RT	194	194
842+69	LT	212	212
	TOTALS	709	709

CULVERT PIPE DITCH CHECKS

STATION	LOCATION	628.7555 EACH
842+63	RT	6
	TOTAL	6

TOPSOIL, EROSION MAT, FERTILIZER AND SEEDING

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0175 SEEDING MIXTURE NO. 75 LB	REMARKS
840+50 - 844+25	RT	418	418	0.3	2.6	
841+00 - 844+50	LT	681	681	0.4	4.3	
	TOTALS	1099	1099	0.7	6.9	

3

MARKING LINE EPOXY

STATION - STATION	LOCATION	646.1020 4-INCH WHITE LF	646.1020 4-INCH YELLOW LF
840+25 - 844+75	EDGELINE LT	450	---
840+25 - 844+75	EDGELINE RT	450	---
840+25 - 844+75	CENTERLINE	---	113
	SUBTOTAL	900	113
	TOTAL	1013	

TEMPORARY TRAFFIC SIGNALS

STATION - STATION	LOCATION	661.0100 FOR BRIDGES (STRUCTURE) LS	REMARKS
839+00 - 846+00	STH 13	1	STAGE 2 & STAGE 3
	TOTAL	1	

CONSTRUCTION STAKING

STATION - STATION	650.6000 PIPE CULVERTS EACH	650.9920 SLOPE STAKES LF	REMARKS
840+50 - 844+50	1	725	
TOTALS	1	725	

3

TRAFFIC CONTROL

	STAGE DAYS	643.0300 DRUMS QTY	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III QTY	643.0420 BARRICADES TYPE III DAYS	643.0715 WARNING LIGHTS TYPE C QTY	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 SIGNS QTY	643.0900 SIGNS DAYS
STAGE 1	3	0	0	0	0	0	0	14	42
STAGE 2	3	58	174	1	3	12	36	40	120
STAGE 3	3	58	174	1	3	12	36	40	120
STAGE 4	2	0	0	0	0	0	0	14	28
TOTALS	11		348		6		72		310

SAWING

STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
841+02 - 841+82	RT	80	---	EAT BUMP OUT
841+38 - 842+10	LT	72	---	EAT BUMP OUT
842+25	LT & RT	16	20	
842+25 - 842+93	CL	---	68	STAGING
842+93	LT & RT	16	20	
843+26 - 844+22	RT	96	---	EAT BUMP OUT
843+58 - 844+46	LT	88	---	EAT BUMP OUT
	TOTAL	368	108	

TEMPORARY WATER DIVERSION

STATION	LOCATION	SPV.0105.01 LS	REMARKS
842+63	LT & RT	1	Q2 = 18 CFS
	TOTALS	1	

TEMPORARY MARKING STOP LINE

STATION	LOCATION	649.0850 REMOVEABLE TAPE 18-INCH LF	REMARKS
839+00	RT	12	STAGE 2 & 3
846+00	LT	12	STAGE 2 & 3
	TOTAL	24	

LANE SHIFT

STATION - STATION	LOCATION	SPV.0060.01 EACH	REMARKS	*BORROW CY
841+50 - 843+75	RT	1	STAGE 1	27
841+50 - 843+75	LT	1	STAGE 2	31
	TOTALS	2		58

*FOR INFORMATIONAL PURPOSES ONLY, NOT A BID ITEM

TEMPORARY PORTABLE RUMBLE STRIPS

STATION - STATION	LOCATION	643.0310.S LS	REMARKS
839+00 - 846+00	STH 13	1	STAGE 1, 2, 3 & 4
	TOTAL	1	

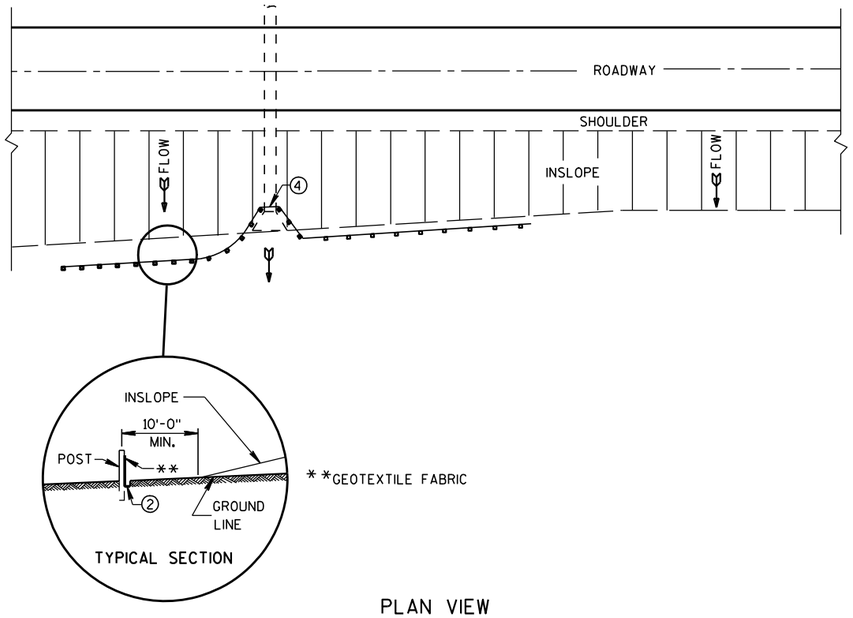
FRONTIER COMMUNICATIONS
R/W
SLOPE INTERCEPT
STA 842+63
REMOVE OLD STRUCTURE
6'X3'X48' CONCRETE BOX CULVERT
WETLAND LIMIT
SAW CUT
REMOVE GUARDRAIL
SAW CUT
6'
12'
12'
6'
840+00
841+00
842+00
843+00
844+00
845+00
SAW CUT
REMOVE GUARDRAIL
SAW CUT
WETLAND LIMIT
R/W
MARQUETTE ADAMS TELEPHONE
SLOPE INTERCEPT
BEGIN PROJECT
STA 842+25
SAWCUT REQD
END PROJECT
STA 842+93
SAWCUT REQD
STA 842+25.00
EL 926.94
STA 842+93.00
EL 926.91
-0.03%
930
920
919
839
840
841
842
843
844
845
01-013-0040
STA 842+63
1-71"X47" PAPCCS REQD
2-71"X47" AEW REQD
2-CULVERT MARKERS REQD
INV ELEV LT 919.32
INV ELEV RT 919.68
MIN WALL THICKNESS 0.138"
927.04
927.03
926.90
926.94
926.90
926.90
926.97
926.93
926.93
927.04
927.08
927.24
927.40
927.48
927.51

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	PLAN AND PROFILE: STH 13	SHEET 20	E

Standard Detail Drawing List

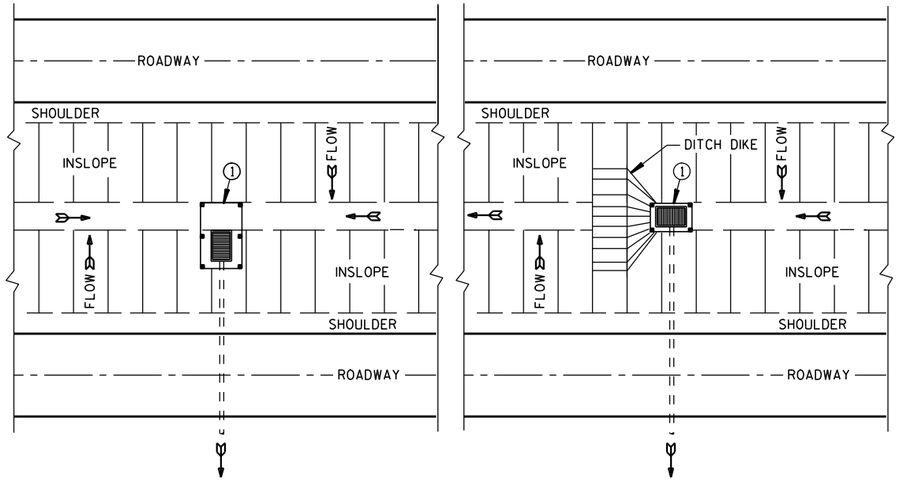
08E09-06	SILT FENCE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
09G02-04A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-04B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-04C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D33-04	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6



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.

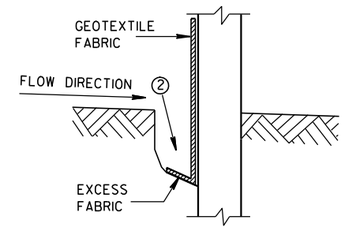
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

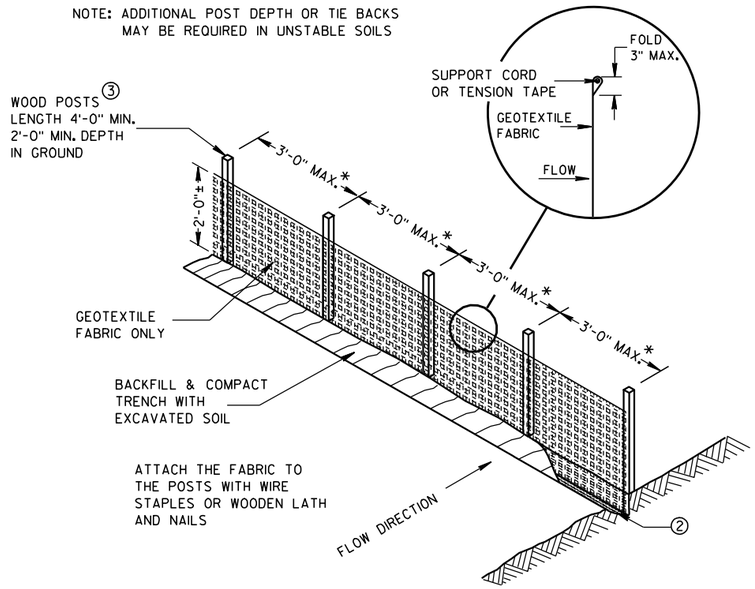
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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.

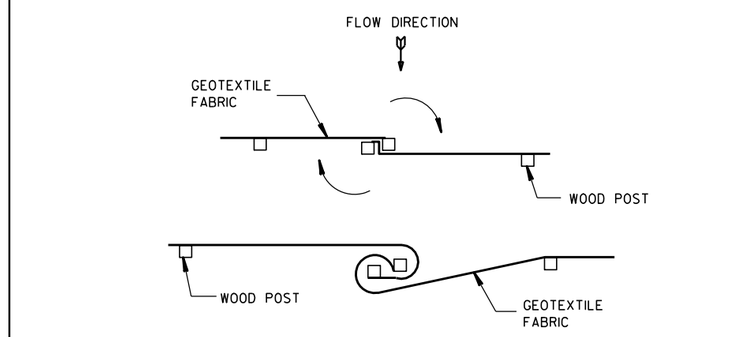


TRENCH DETAIL

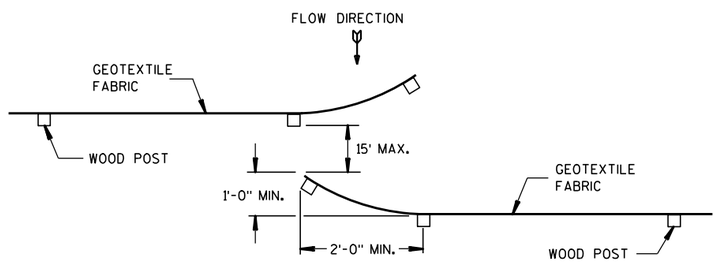


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

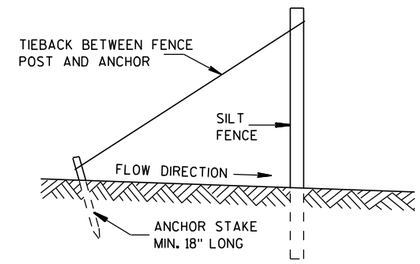


TWIST METHOD



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

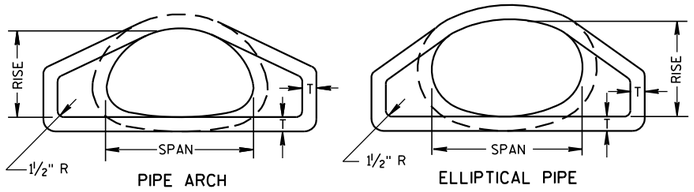
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

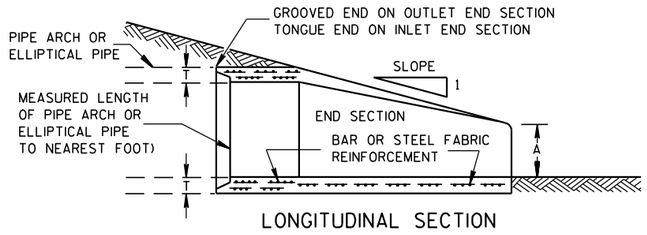
S.D.D. 8 E 9-6

6

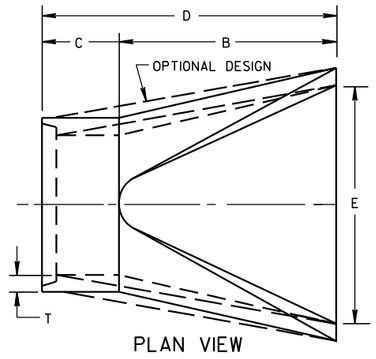
S.D.D. 8 E 9-6



END VIEW

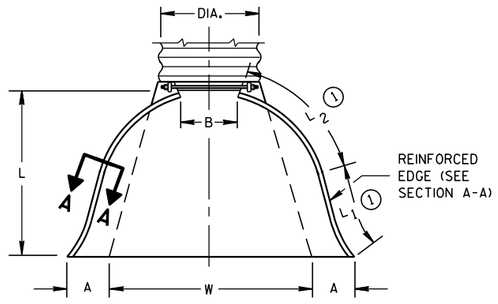


LONGITUDINAL SECTION

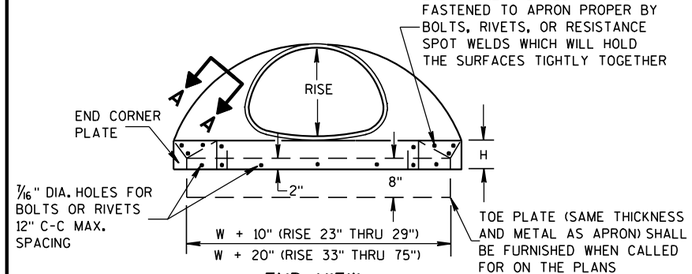


PLAN VIEW

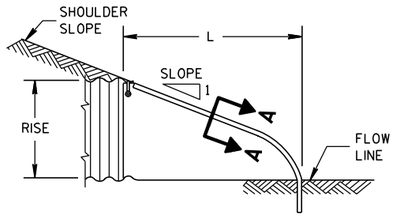
CONCRETE ENDWALLS



PLAN VIEW

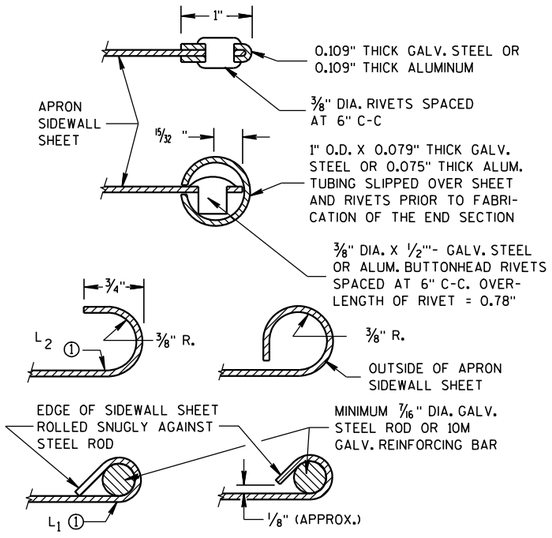


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

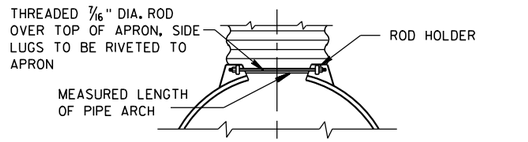
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

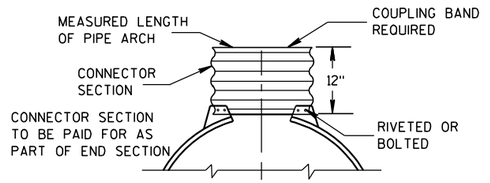
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



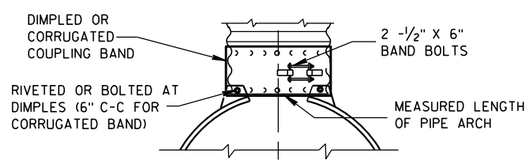
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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 APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH 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 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

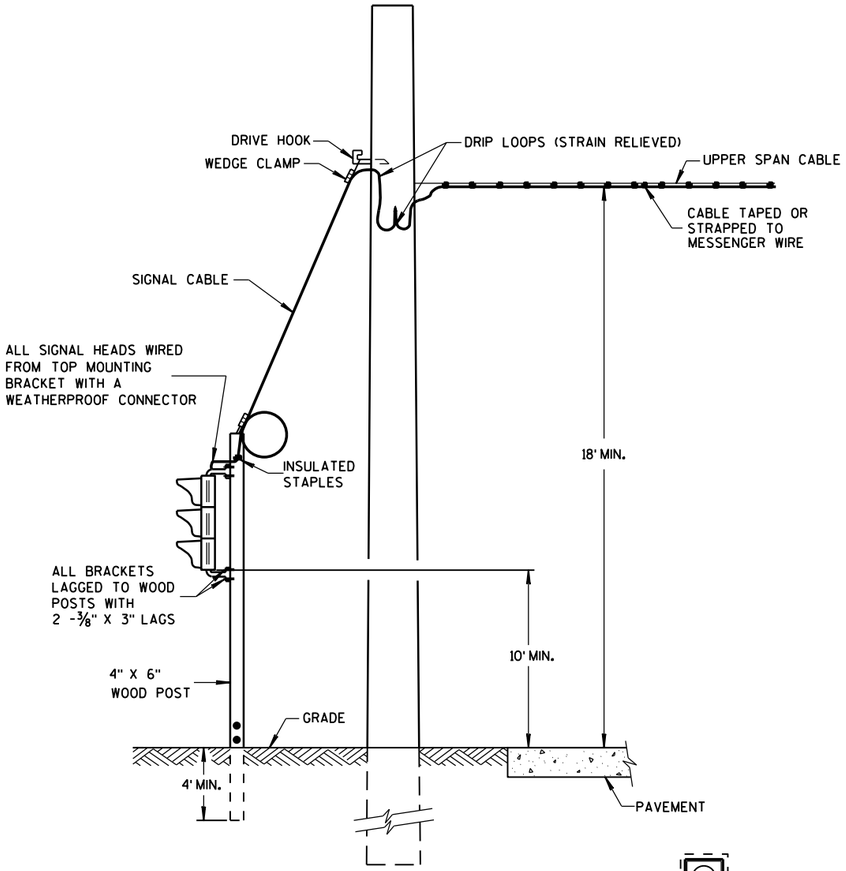
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

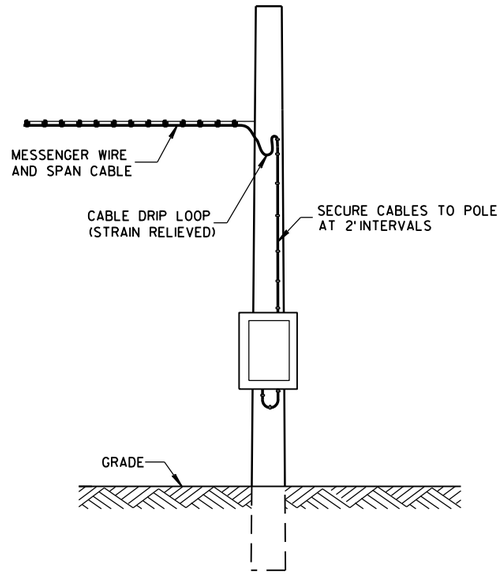
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



TYPICAL DROP TO TRAFFIC SIGNAL FACE



POLE MOUNT CABINET INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE MOUNTED TRAFFIC SIGNAL CONTROL CABINET MAYBE MOUNTED ON THE SERVICE POLE IF THE ELECTRICAL UTILITY ALLOWS THE INSTALLATION.

WHEN UTILITY POLES ARE USED TO SPAN THE TEMPORARY OVERHEAD CABLE, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER OF THE POLES AND GIVEN TO THE PROJECT MANAGER. ALL PERTINENT UTILITY AND CODE CLEARANCES SHALL BE MAINTAINED.

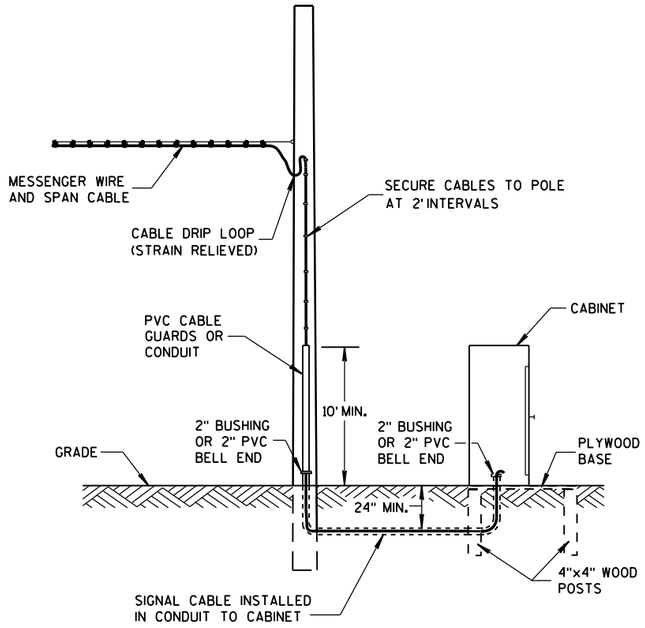
WOOD POLES (NONBREAKAWAY) SHALL BE NO CLOSER TO EDGE OF PAVEMENT THAN OFFSET DISTANCE CHART ALLOWS OR 4 FEET BEHIND PROTECTIVE BARRIER (BEAM GUARD, ETC.).

WOOD POSTS (BREAKAWAY) SHALL BE NO CLOSER THAN 2 FEET OUTSIDE OF SHOULDER.

VERTICAL CLEARANCE ETC. PER NEC.

TRAFFIC SIGNAL FACES SHALL BE TYPICALLY PLACED 12 FEET FROM EDGE OF PAVEMENT.

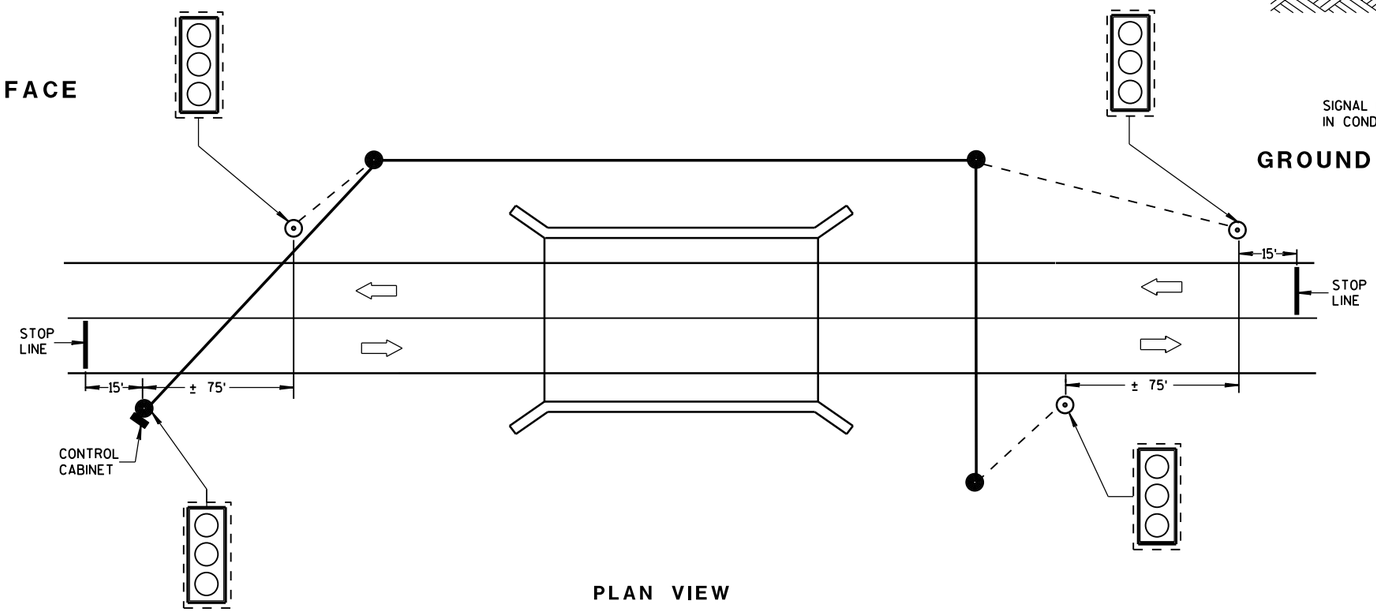
EACH TRAFFIC SIGNAL FACE SHALL HAVE A BACKPLATE.



GROUND MOUNT CABINET INSTALLATION

OFFSET DISTANCES FOR TEMPORARY NON-BREAKAWAY POLES	
SPEED LIMIT	OFFSET DISTANCE**
GREATER THAN 45 MPH	18 FT
45 MPH OR LESS	12 FT
45 MPH OR LESS W/ CURBS	2 FT

**NOTE: OFFSET MEASURED FROM OUTER EDGE OF OUTSIDE THRU LANE.



PLAN VIEW

TYPICAL BRIDGE TEMPORARY TRAFFIC SIGNAL LOCATION

LEGEND

- WOOD POLE (NON-BREAKAWAY)
- WOOD POST (BREAKAWAY)
- SIGNAL CABLE
- SIGNAL CABLE W/MESSENGER
- LED TRAFFIC SIGNAL FACE WITH BACKPLATE (3-12")
- DIRECTION OF TRAFFIC

MINIMUM POLE LENGTHS	CLASS	MINIMUM BURIAL DEPTHS
25 FEET	V	5 FEET
30 FEET	V	6 FEET
35 FEET	IV	7 FEET
40 FEET	IV	8 FEET
45 FEET	IV	9 FEET

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

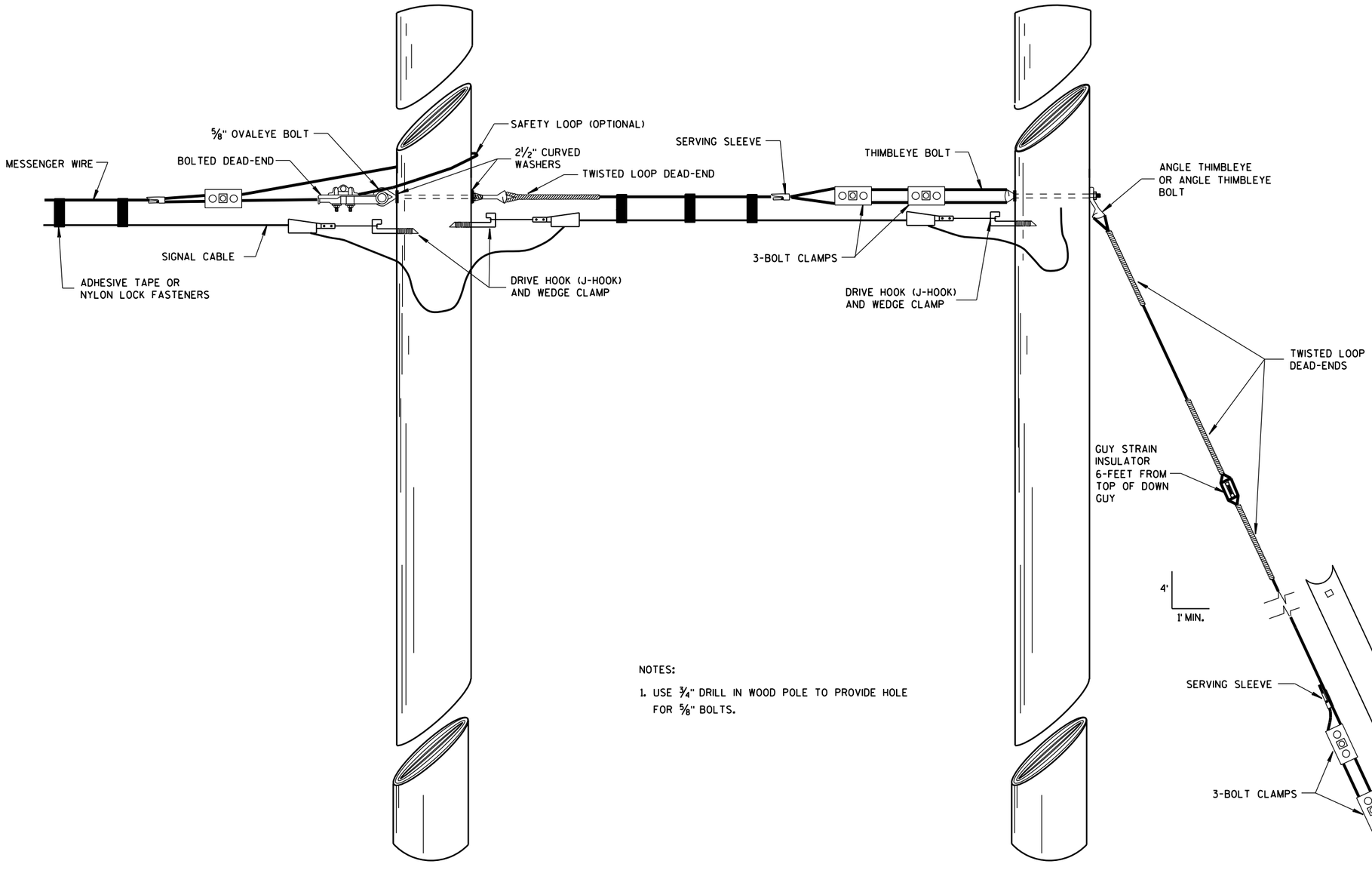
APPROVED
Sept., 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 G 2-4a

6

S.D.D. 9 G 2-4a



SPAN WIRE POLE

GUY POLE

NOTES:

1. USE 3/4" DRILL IN WOOD POLE TO PROVIDE HOLE FOR 5/8" BOLTS.

TYPICAL DEAD-ENDINGS OR GUYING

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

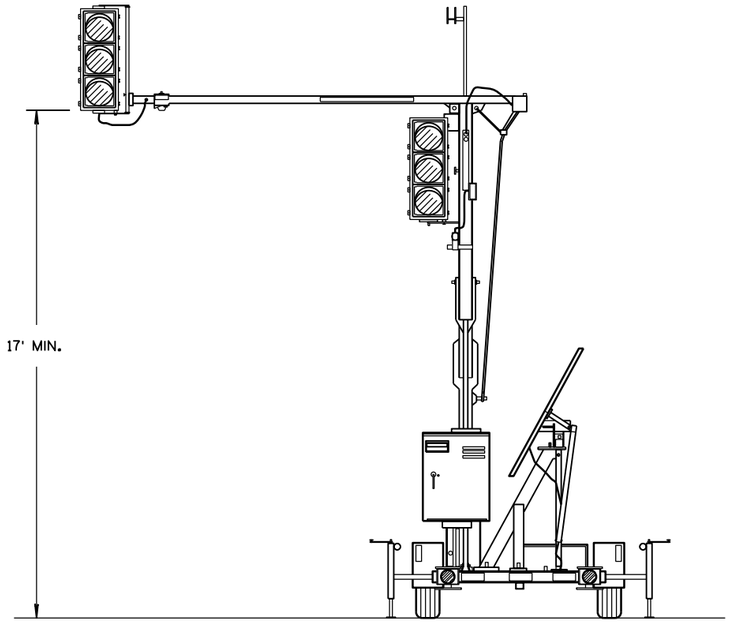
Sept., 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

6

S.D.D. 9 G 2-4b

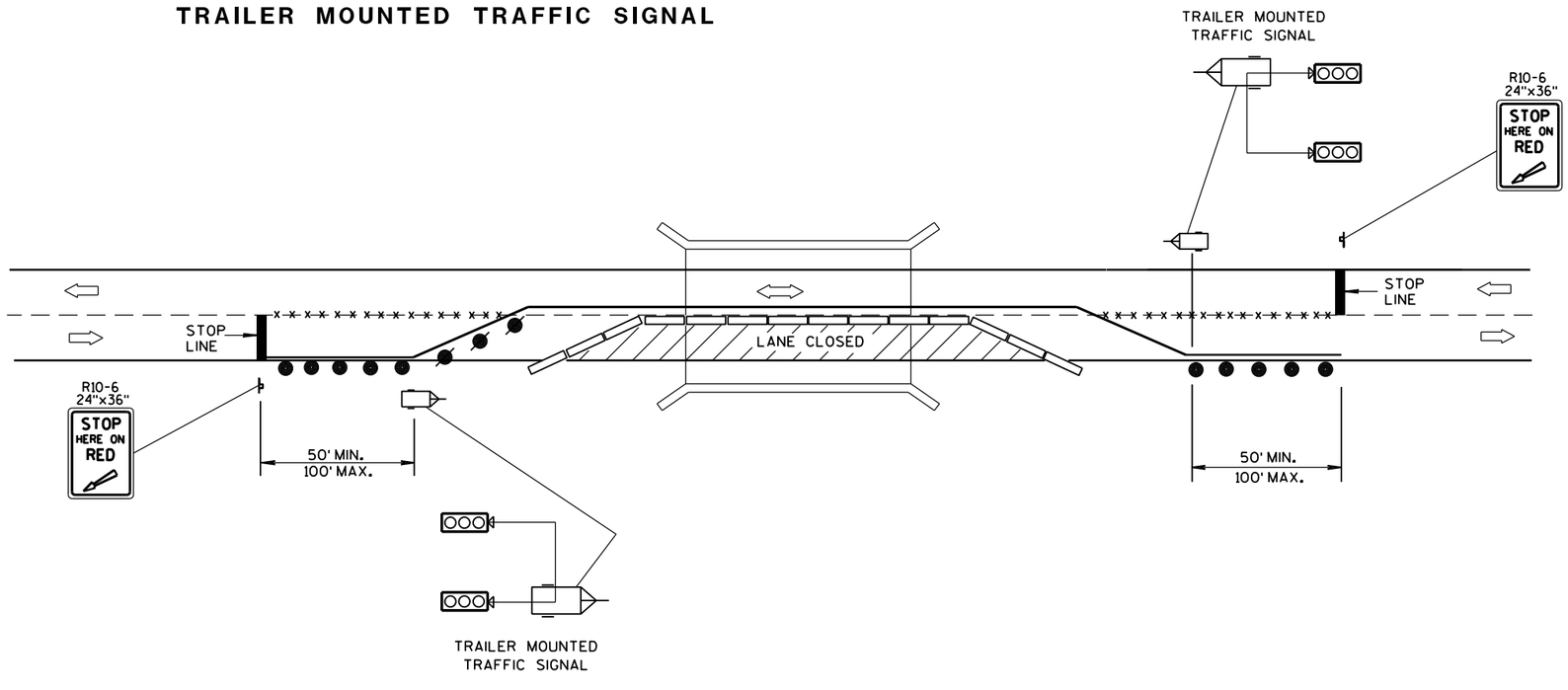


TRAILER MOUNTED TRAFFIC SIGNAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15 D 33.



TYPICAL TRAILER MOUNTED TRAFFIC SIGNAL LOCATION

LEGEND

- POST MOUNTED SIGN
- REMOVING PAVEMENT MARKING
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL
- DIRECTION OF TRAFFIC FLOW

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

6

S.D.D. 9 G 2-4c

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S.D.D. 9 G 2-4c

GENERAL NOTES

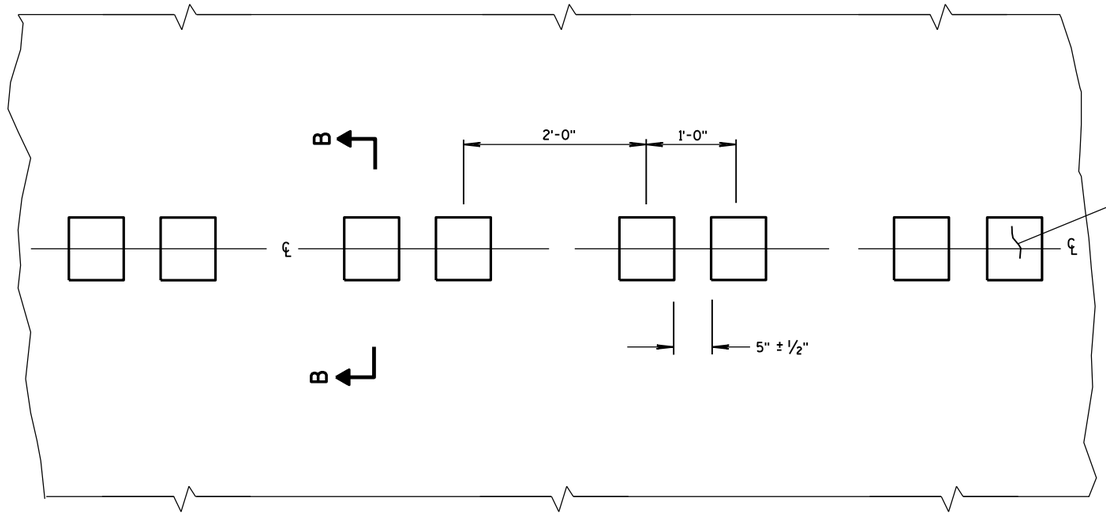
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

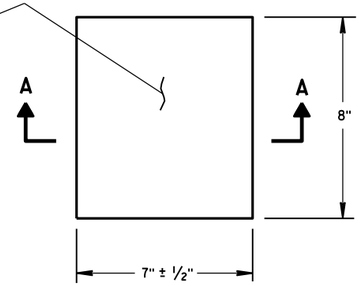
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

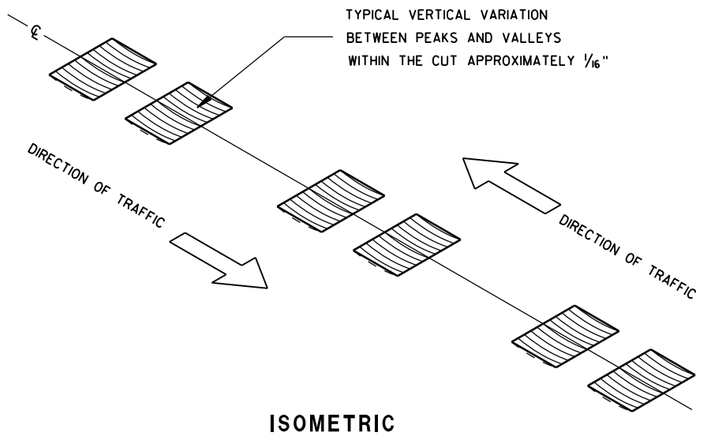


PLAN VIEW
CENTER LINE WITH GROOVES

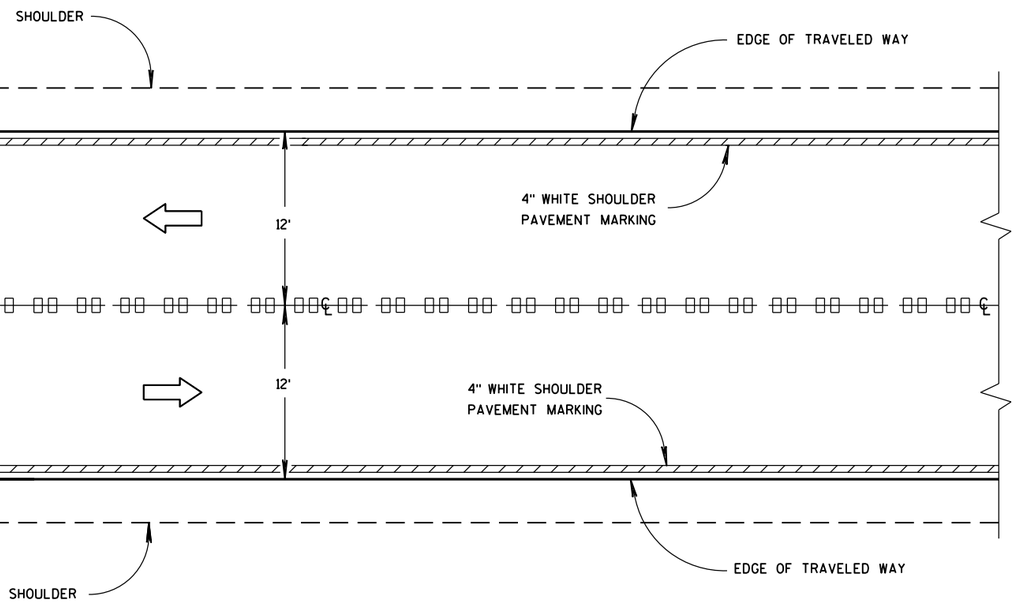


PLAN VIEW
(SINGLE GROOVE)

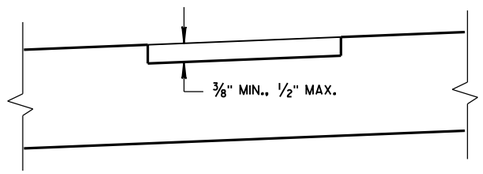
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



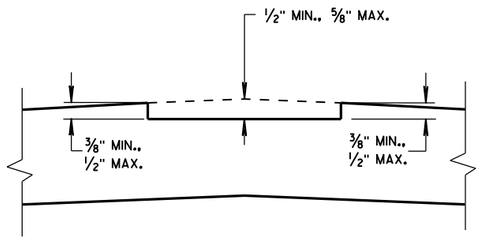
ISOMETRIC



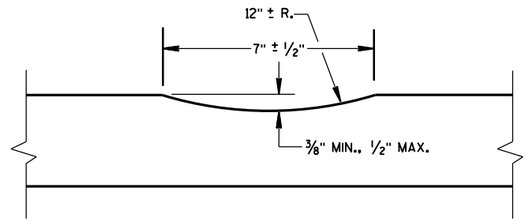
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

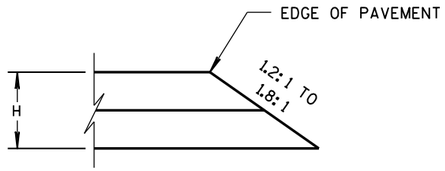
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 11-2a

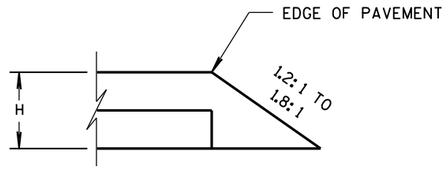
6

S.D.D. 13 A 11-2a



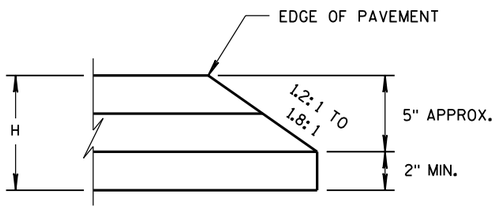
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



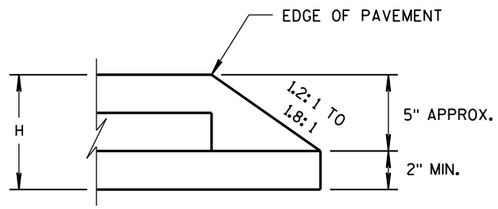
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

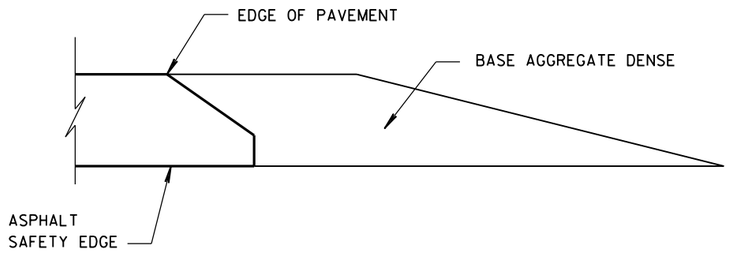
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

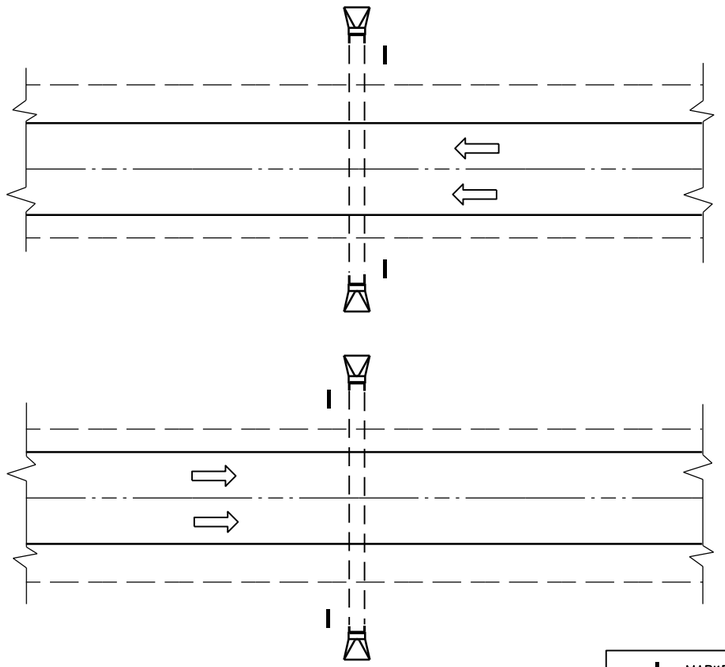
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

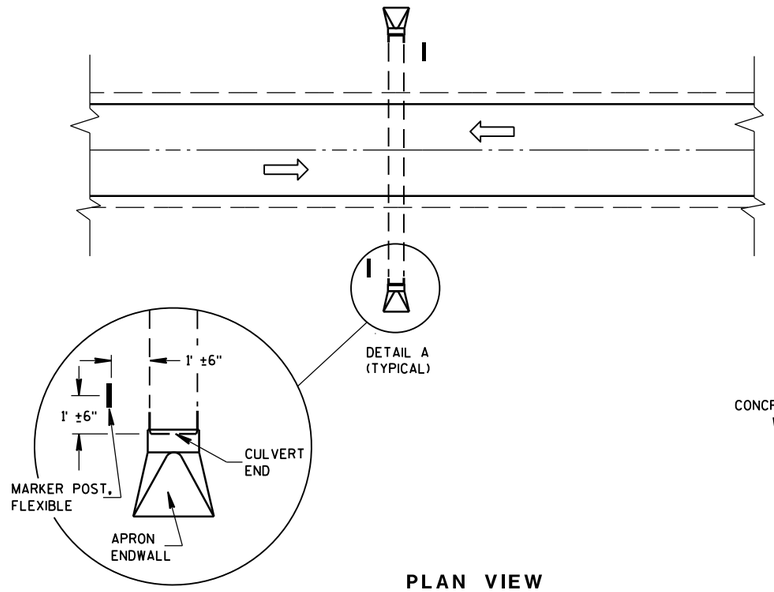
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

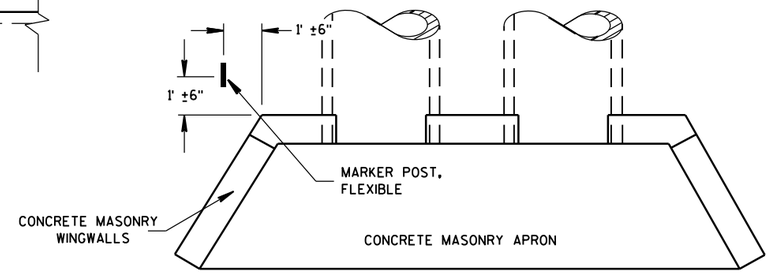
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

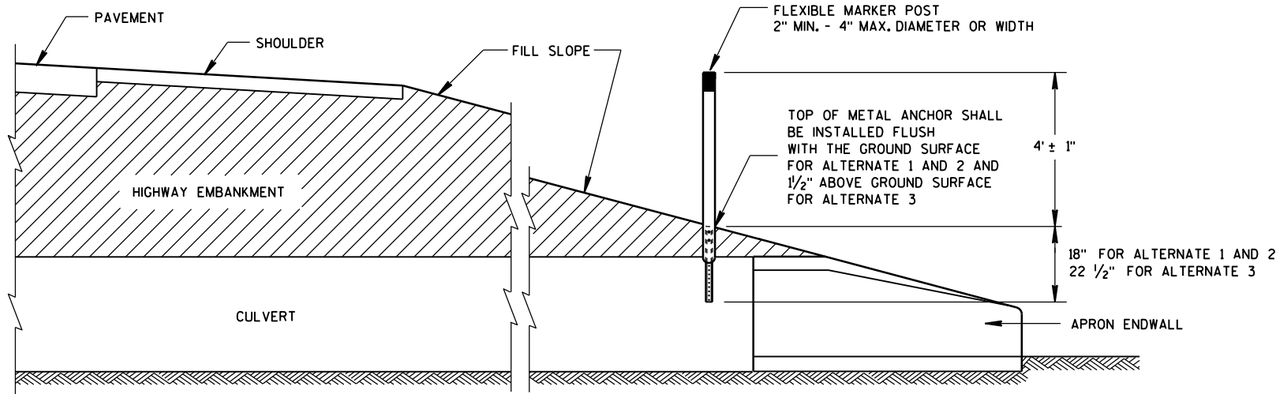
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

6

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

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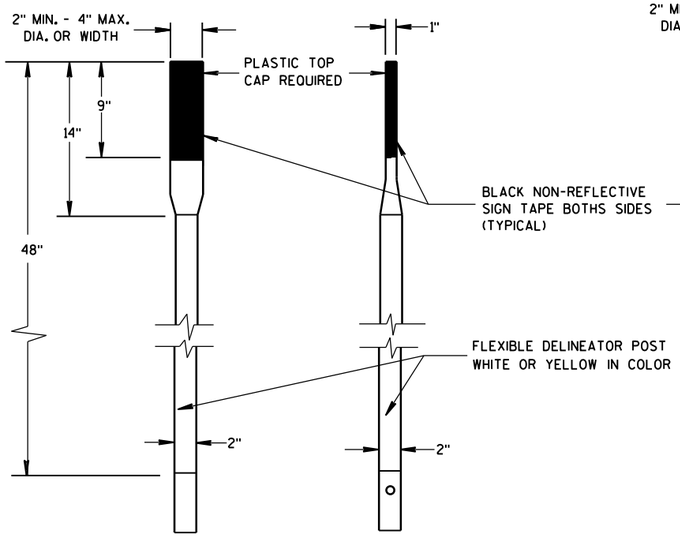
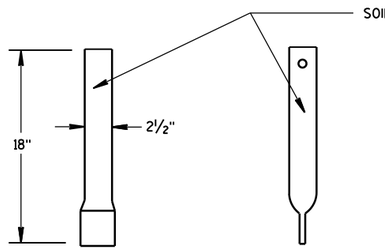
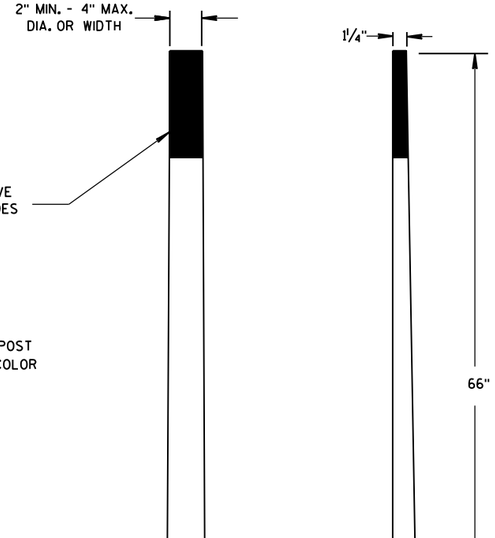
S.D.D. 15 A 3-2a





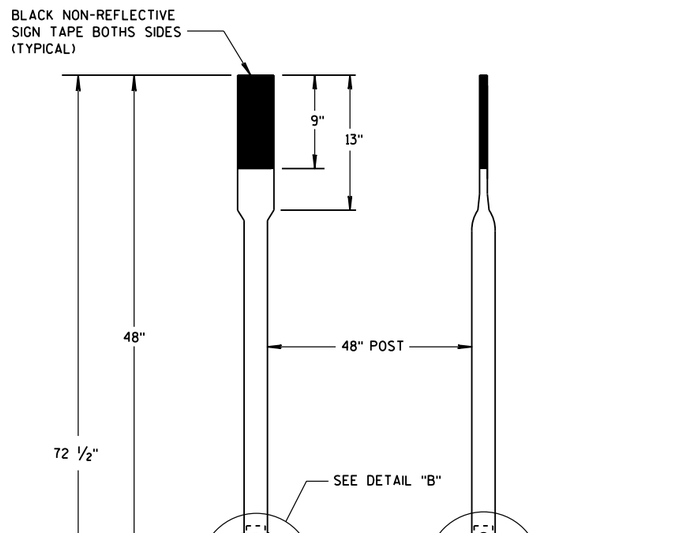
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

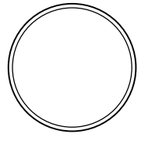
ALTERNATE 2



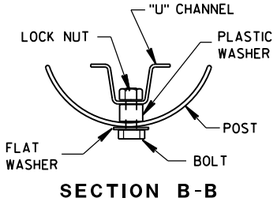
FRONT VIEW SIDE VIEW

ALTERNATE 3

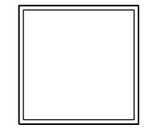
FLEXIBLE MARKER POSTS



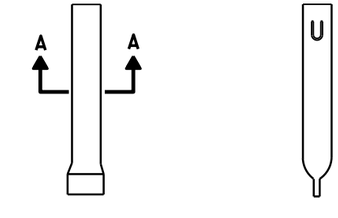
SECTION A-A



SECTION B-B

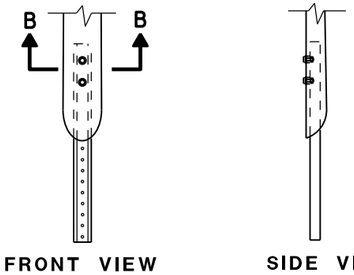


SECTION C-C



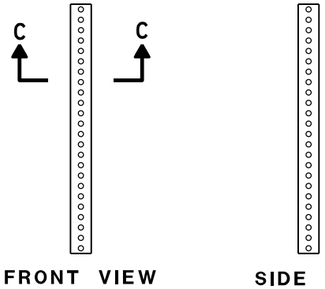
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

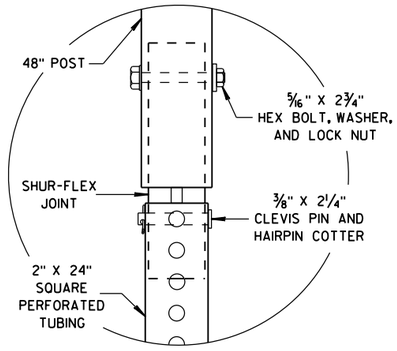
ALTERNATE 2



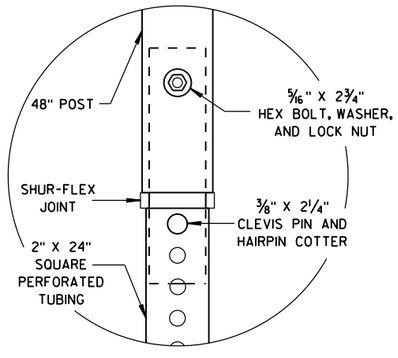
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

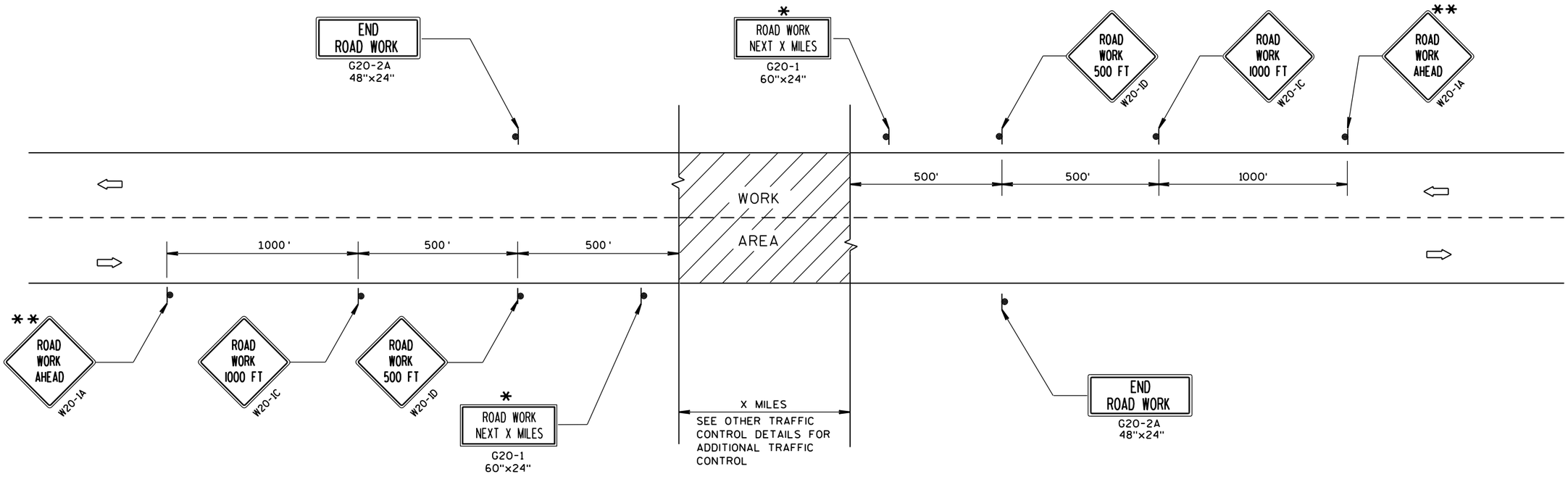
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 15 A 3-2b

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

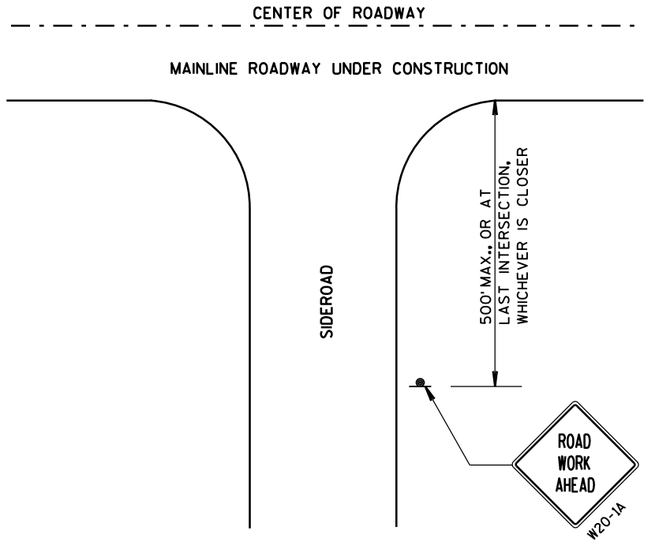
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

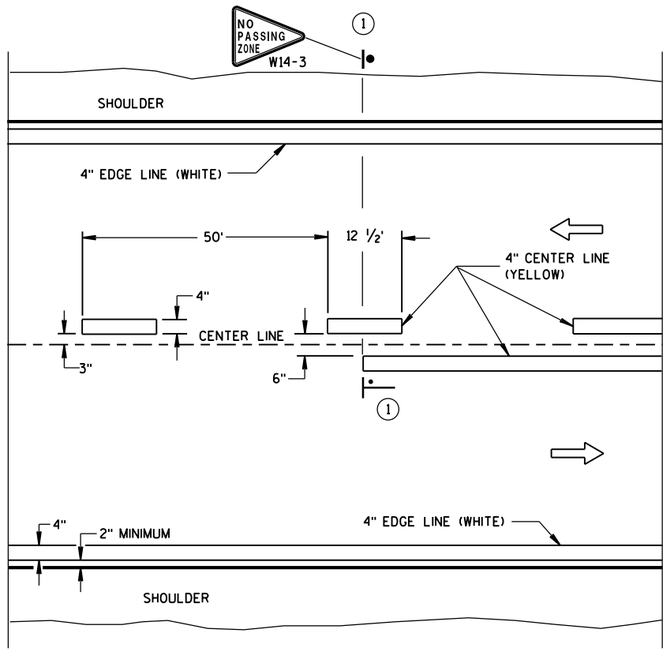
APPROVED

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

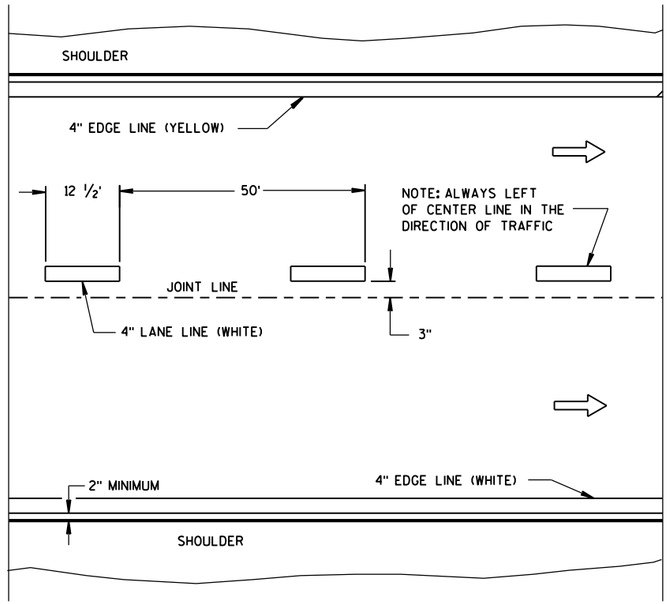
FHWA

6

S.D.D. 15 C 4-3



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) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

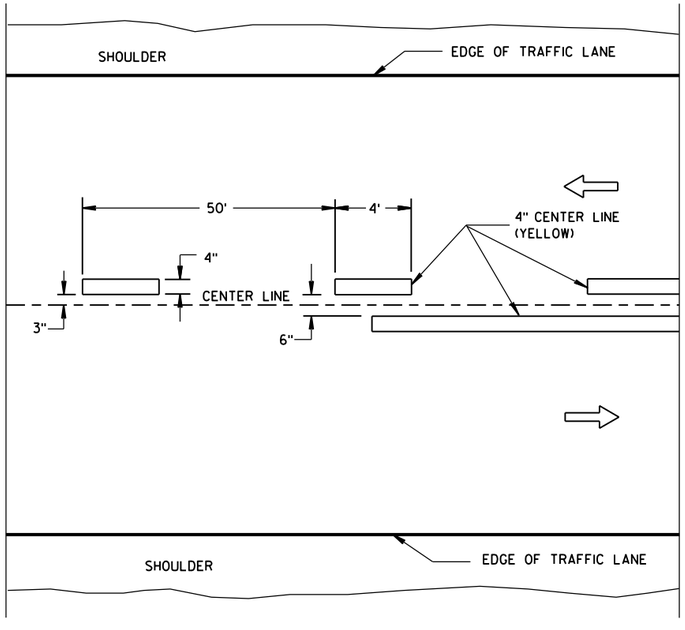
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

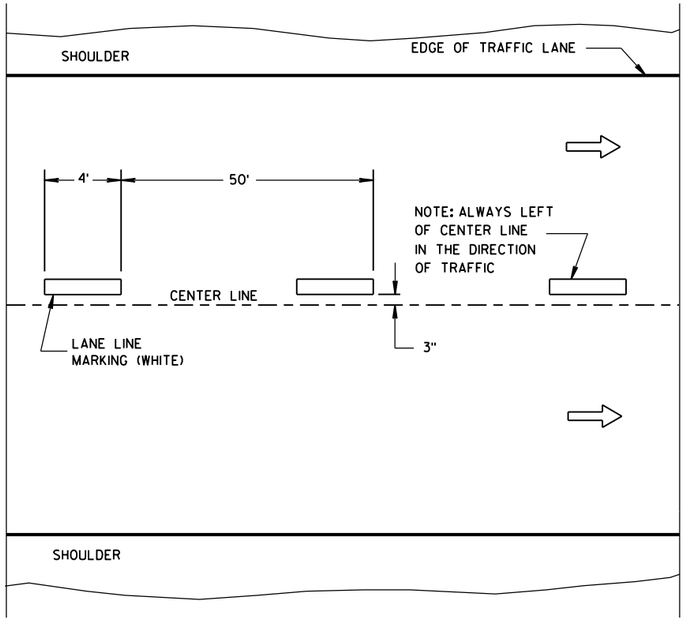
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



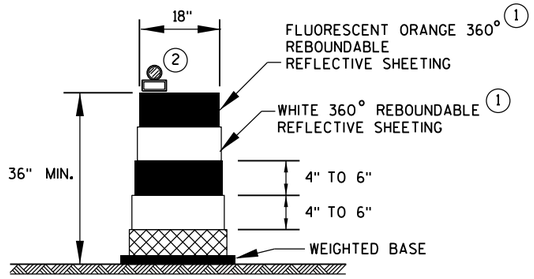
ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

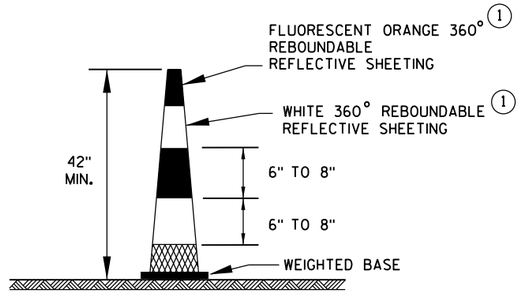
LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR ENGINEER
FHWA	

6

S.D.D. 15 C 8-18a



DRUM

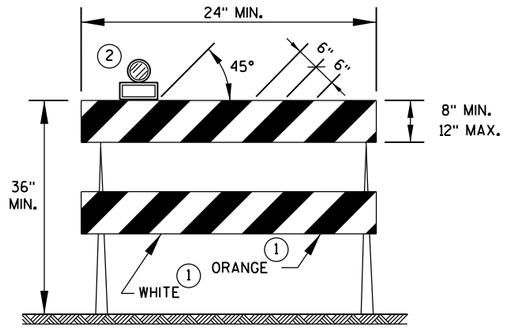


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

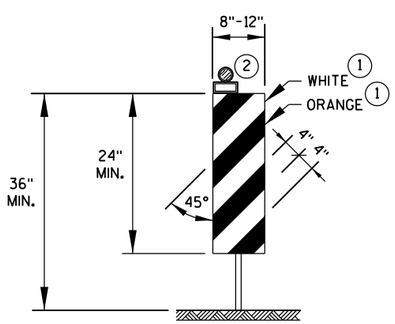
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



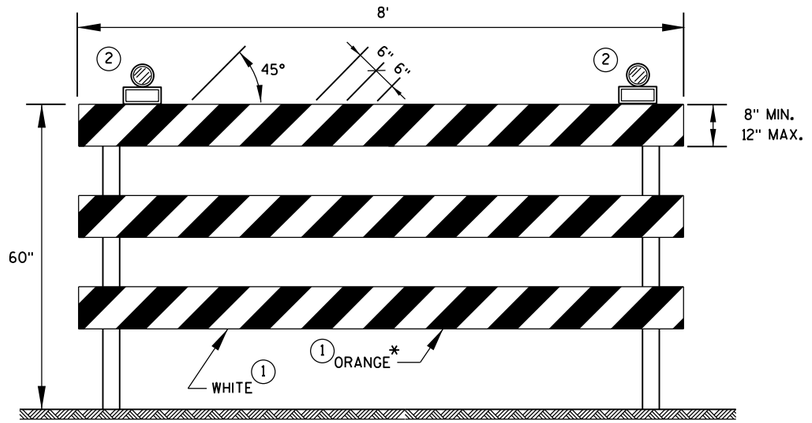
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Andrew Heidtke — WORK ZONE ENG

FHWA

6

S.D.D. 15 C 11-7b

LEGEND

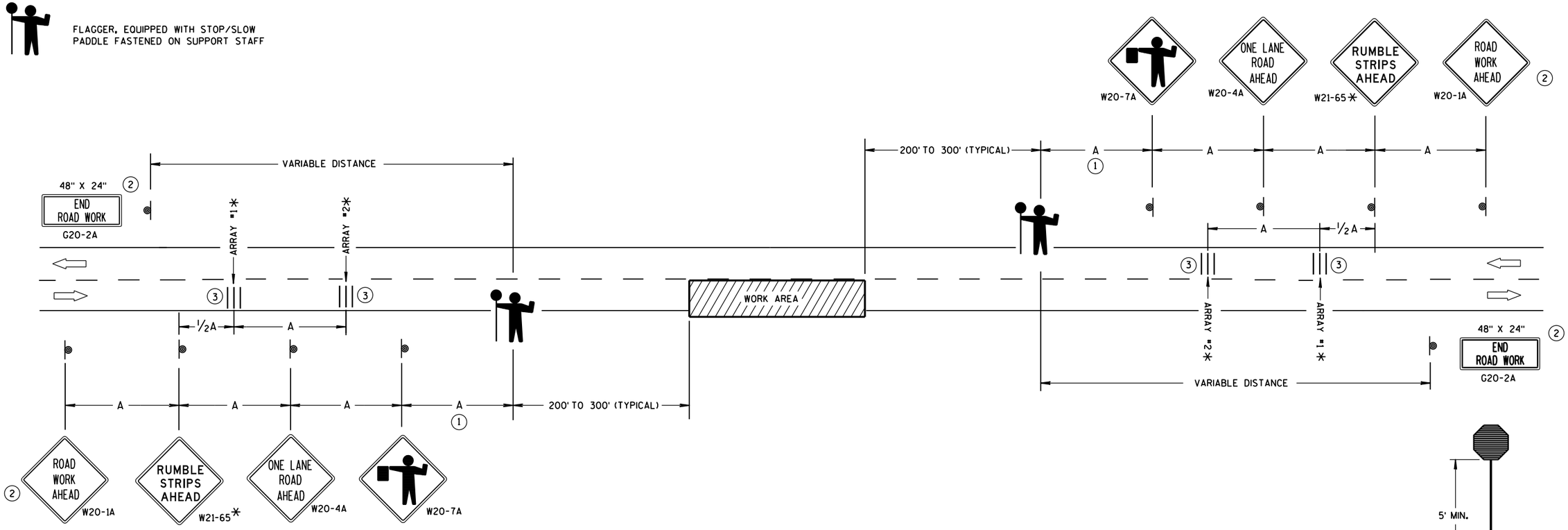
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

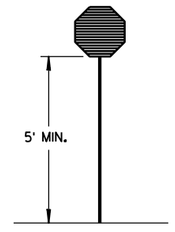
SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W03-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

6

S.D.D. 15 C 12-6

S.D.D. 15 C 12-6

LEGEND

- SIGN ON PERMANENT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- CONCRETE BARRIER TEMPORARY PRECAST
- FLAGS, 16" x 16" MIN., (ORANGE)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ASPHALTIC PAVEMENT WIDENING
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST
- TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE

INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1-FOOT LESS THAN AVAILABLE WIDTH. (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET.)

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

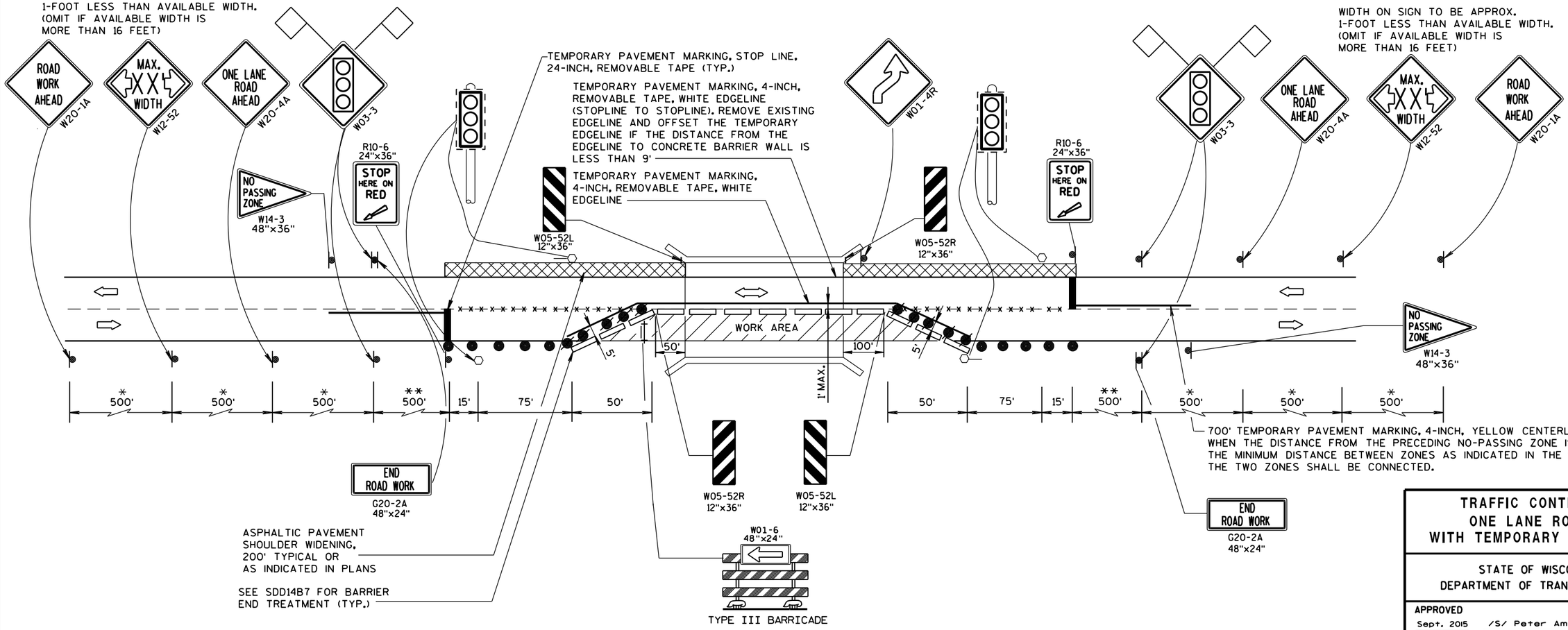
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

* 500-FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350-FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200-FOOT TYPICAL SPACING.

** USE 300' SPACING IF PRE-CONSTRUCTION REGULATORY SPEED LIMIT IS 35 MPH OR LESS.



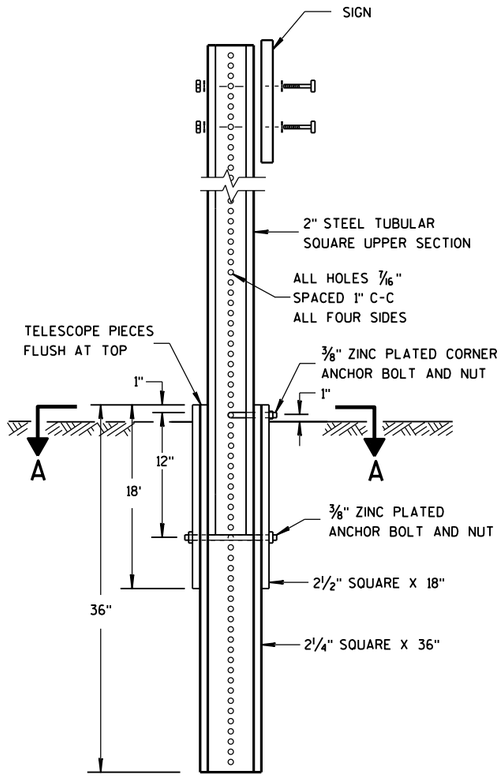
TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

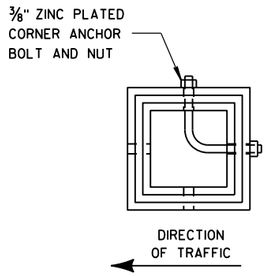
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

S.D.D. 15 D 33-4

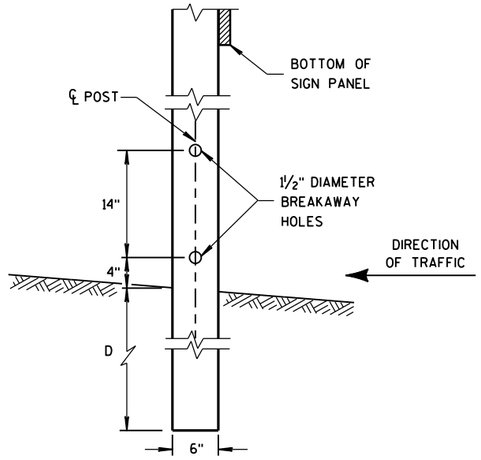
S.D.D. 15 D 33-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



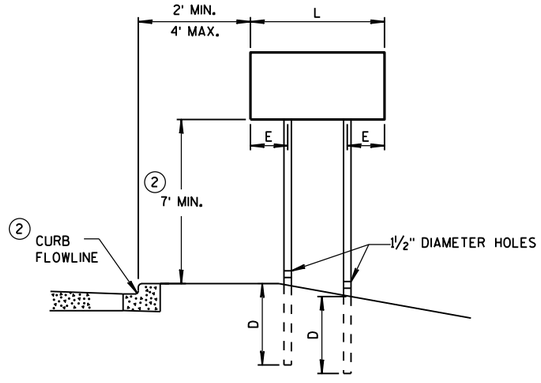
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

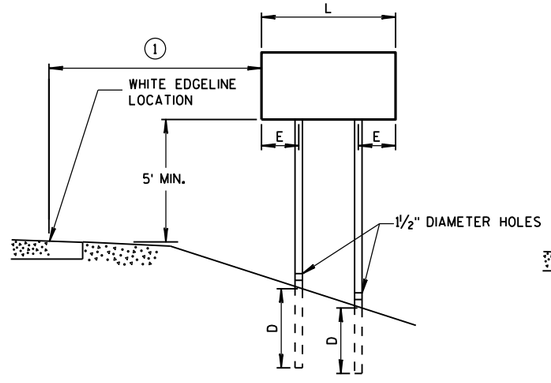
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

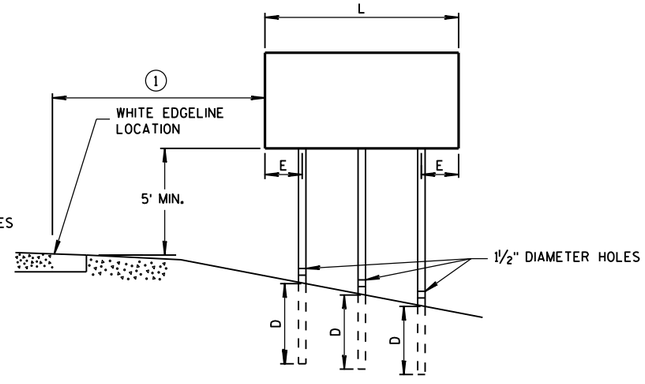
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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 SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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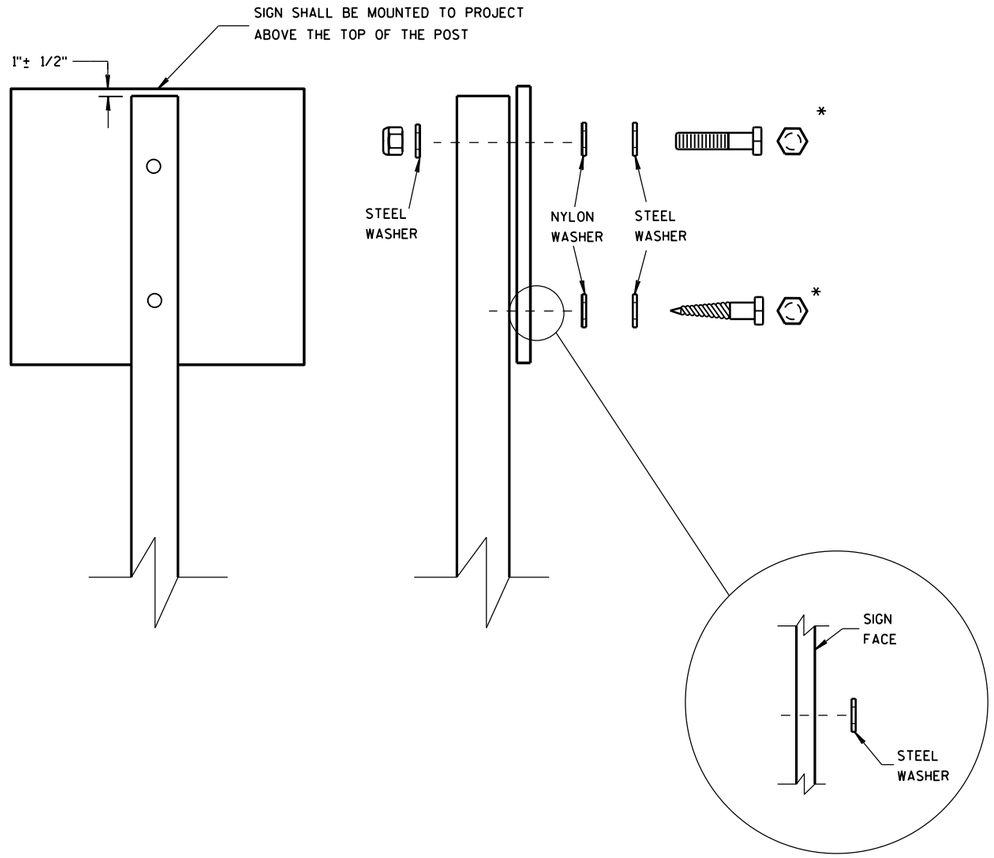
S.D.D. 15 D 38-2a
S.D.D. 15 D 38-2a



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 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

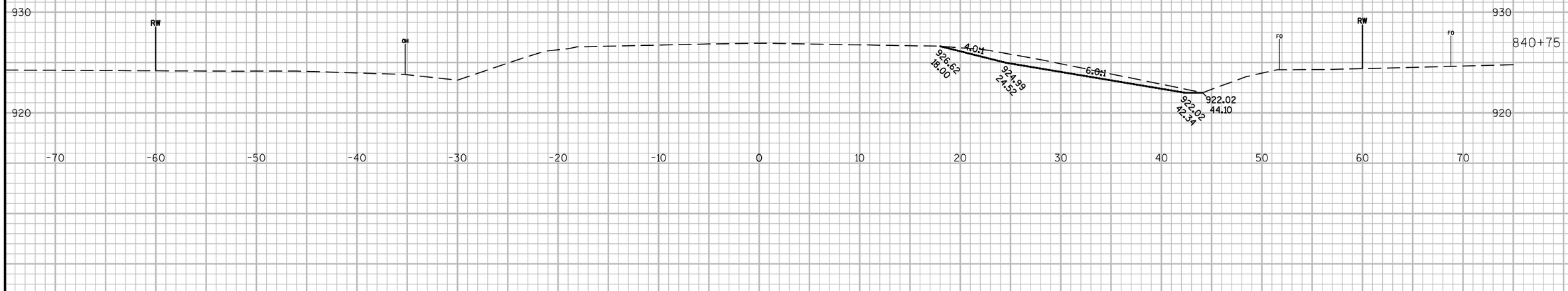
STH 13 LT							
Station	Cut Area	Fill Area	Cut Volume	Fill Volume	Cumulative Cut	Cumulative Fill	Net Volume
	SF	SF	CY	CY	CY	CY	CY
840+25	0.0	0.0	-	-	-	-	-
840+50	0.0	0.0	0.00	0.00	0.00	0.00	0.00
840+75	0.0	0.0	0.00	0.00	0.00	0.00	0.00
841+00	3.7	0.0	1.71	0.00	1.71	0.00	1.71
841+25	7.3	0.0	5.09	0.00	6.81	0.00	6.81
841+50	10.9	0.0	8.43	0.00	15.23	0.00	15.23
841+75	14.2	0.0	11.62	0.00	26.85	0.00	26.85
842+00	11.8	0.0	12.04	0.00	38.89	0.00	38.89
842+25	5.3	1.7	7.92	0.79	46.81	0.79	46.02
842+50	2.4	28.5	3.56	13.98	50.37	14.77	35.60
842+63	1.4	86.1	0.91	27.59	51.29	42.36	8.93
842+75	1.3	34.1	0.60	26.71	51.89	69.07	-17.18
843+00	1.7	10.1	1.39	20.46	53.27	89.53	-36.26
843+25	2.0	3.2	1.71	6.16	54.99	95.69	-40.70
843+50	2.3	2.0	1.99	2.41	56.98	98.10	-41.12
843+75	8.8	0.0	5.14	0.93	62.12	99.02	-36.91
844+00	18.4	0.0	12.59	0.00	74.71	99.02	-24.31
844+25	10.5	0.0	13.38	0.00	88.09	99.02	-10.93
844+50	3.9	0.8	6.67	0.37	94.76	99.39	-4.64
844+75	0.0	0.0	1.81	0.37	96.56	99.76	-3.20

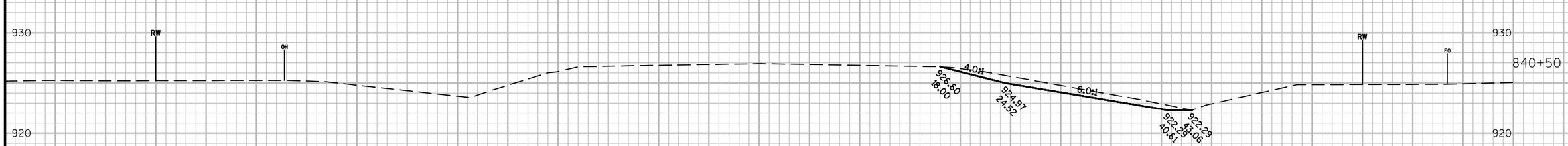
STH 13 RT							
Station	Cut Area	Fill Area	Cut Volume	Fill Volume	Cumulative Cut	Cumulative Fill	Net Volume
	SF	SF	CY	CY	CY	CY	CY
840+25	0	0	-	-	-	-	-
840+50	12.9	0	5.97	0.00	5.97	0.00	5.97
840+75	15.7	0	13.24	0.00	19.21	0.00	19.21
841+00	21	0	16.99	0.00	36.20	0.00	36.20
841+25	21.9	0	19.86	0.00	56.06	0.00	56.06
841+50	19.8	0	19.31	0.00	75.37	0.00	75.37
841+75	13.9	0	15.60	0.00	90.97	0.00	90.97
842+00	6.9	0.6	9.63	0.28	100.60	0.28	100.32
842+25	3	12.4	4.58	6.02	105.19	6.30	98.89
842+50	0.7	44.4	1.71	26.30	106.90	32.59	74.31
842+63	0.7	88.9	0.34	32.09	107.24	64.68	42.55
842+75	0.8	31.5	0.33	26.76	107.57	91.44	16.13
843+00	2.9	5.2	1.71	16.99	109.28	108.43	0.85
843+25	10.2	0	6.06	2.41	115.35	110.84	4.51
843+50	16.1	0	12.18	0.00	127.52	110.84	16.69
843+75	14	0	13.94	0.00	141.46	110.84	30.62
844+00	7.4	0	9.91	0.00	151.36	110.84	40.53
844+25	1.5	0	4.12	0.00	155.49	110.84	44.65
844+50	0	0	0.69	0.00	156.18	110.84	45.34
844+75	0	0	0.00	0.00	156.18	110.84	45.34

STH 13 LT Lane Shift							
Station	Cut Area	Fill Area	Cut Volume	Fill Volume	Cumulative Cut	Cumulative Fill	Net Volume
	SF	SF	CY	CY	CY	CY	CY
841+50	0.0	0.5	-	-	-	-	-
841+75	0.0	5.5	0.00	2.78	0.00	2.78	-2.78
842+00	0.0	6.9	0.00	5.74	0.00	8.52	-8.52
842+25	0.0	3.1	0.00	4.63	0.00	13.15	-13.15
842+50	0.0	0.1	0.00	1.48	0.00	14.63	-14.63
842+63	0.0	0.1	0.00	0.05	0.00	14.68	-14.68
842+75	0.0	0.1	0.00	0.04	0.00	14.72	-14.72
843+00	0.0	5.6	0.00	2.64	0.00	17.36	-17.36
843+25	0.0	6.9	0.00	5.79	0.00	23.15	-23.15
843+50	0.0	5.0	0.00	5.51	0.00	28.66	-28.66
843+75	0.0	0.7	0.00	2.64	0.00	31.30	-31.30

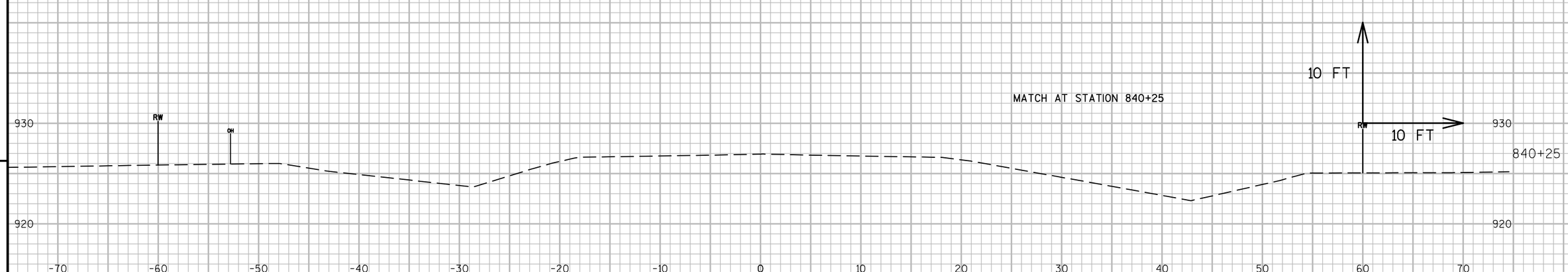
STH 13 RT Lane Shift							
Station	Cut Area	Fill Area	Cut Volume	Fill Volume	Cumulative Cut	Cumulative Fill	Net Volume
	SF	SF	CY	CY	CY	CY	CY
841+50	0.0	0.4	-	-	-	-	-
841+75	0.0	3.3	0.00	1.71	0.00	1.71	-1.71
842+00	0.0	4.1	0.00	3.43	0.00	5.14	-5.14
842+25	0.0	3.3	0.00	3.43	0.00	8.56	-8.56
842+50	0.0	3.0	0.00	2.92	0.00	11.48	-11.48
842+63	0.0	2.9	0.00	1.42	0.00	12.90	-12.90
842+75	0.0	3.0	0.00	1.31	0.00	14.21	-14.21
843+00	0.0	4.1	0.00	3.29	0.00	17.50	-17.50
843+25	0.0	4.7	0.00	4.07	0.00	21.57	-21.57
843+50	0.0	3.4	0.00	3.75	0.00	25.32	-25.32
843+75	0.0	0.4	0.00	1.76	0.00	27.08	-27.08

MATCH AT STATION 840+75





MATCH AT STATION 840+25



9

9

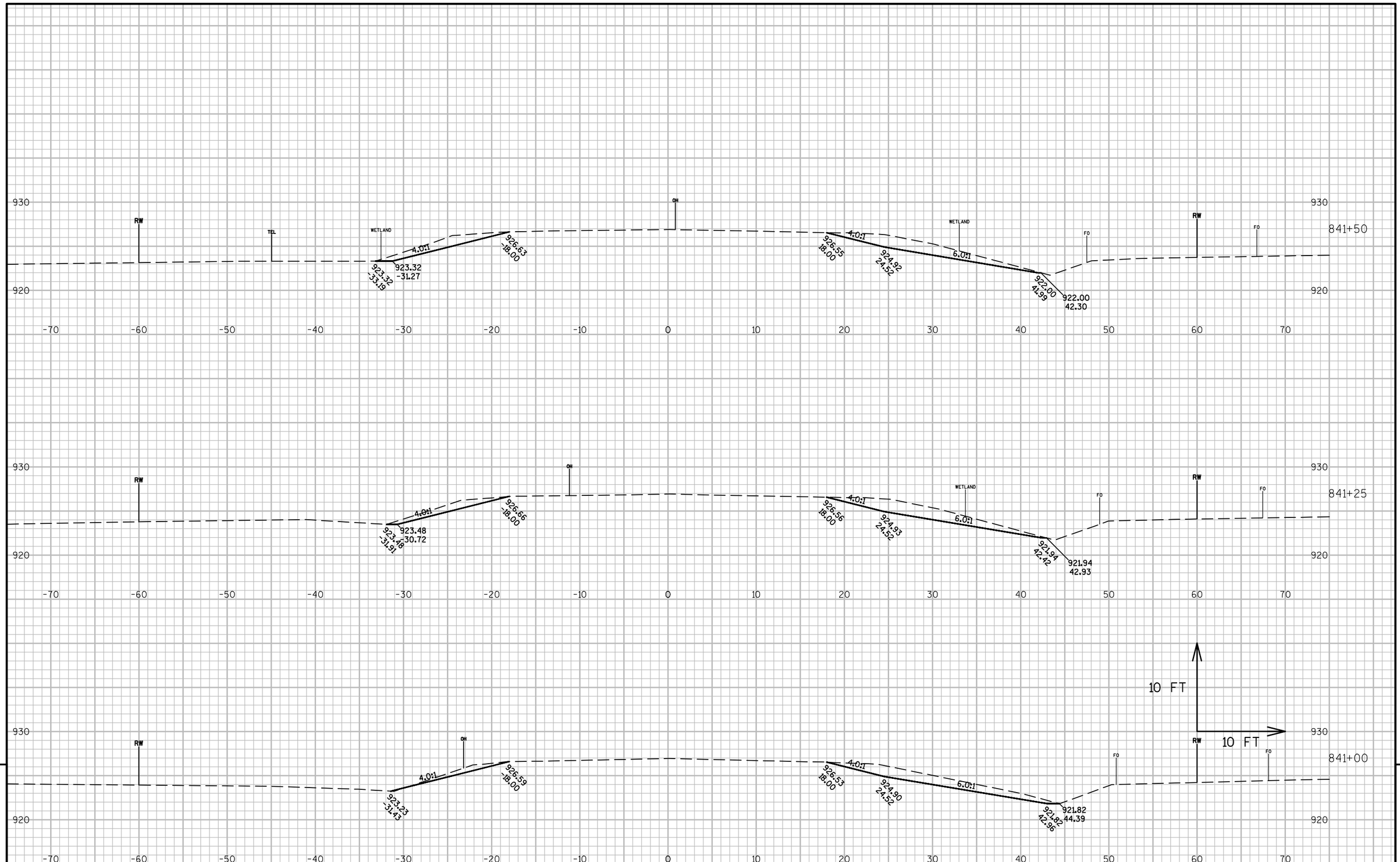
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 39	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

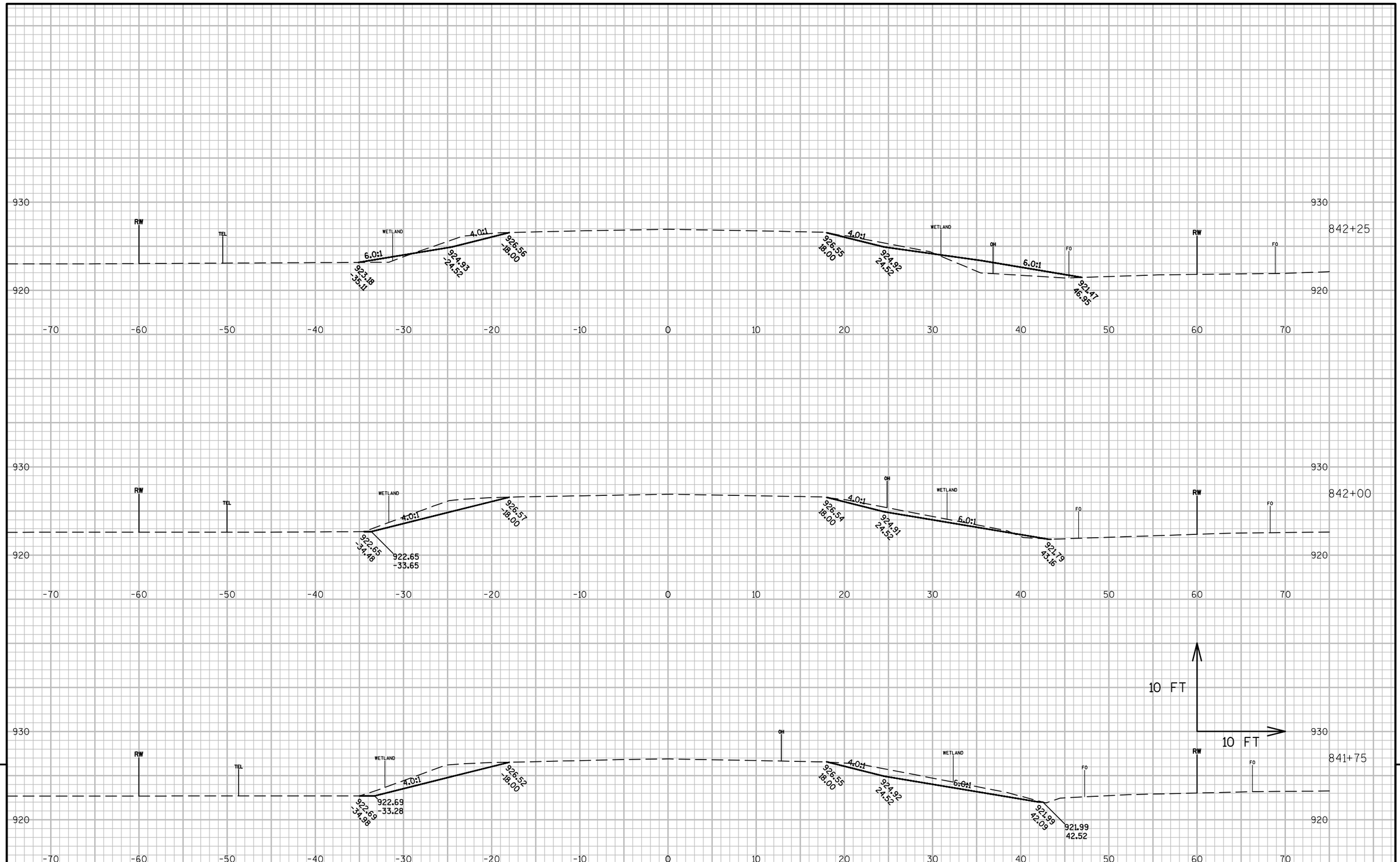
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 40	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

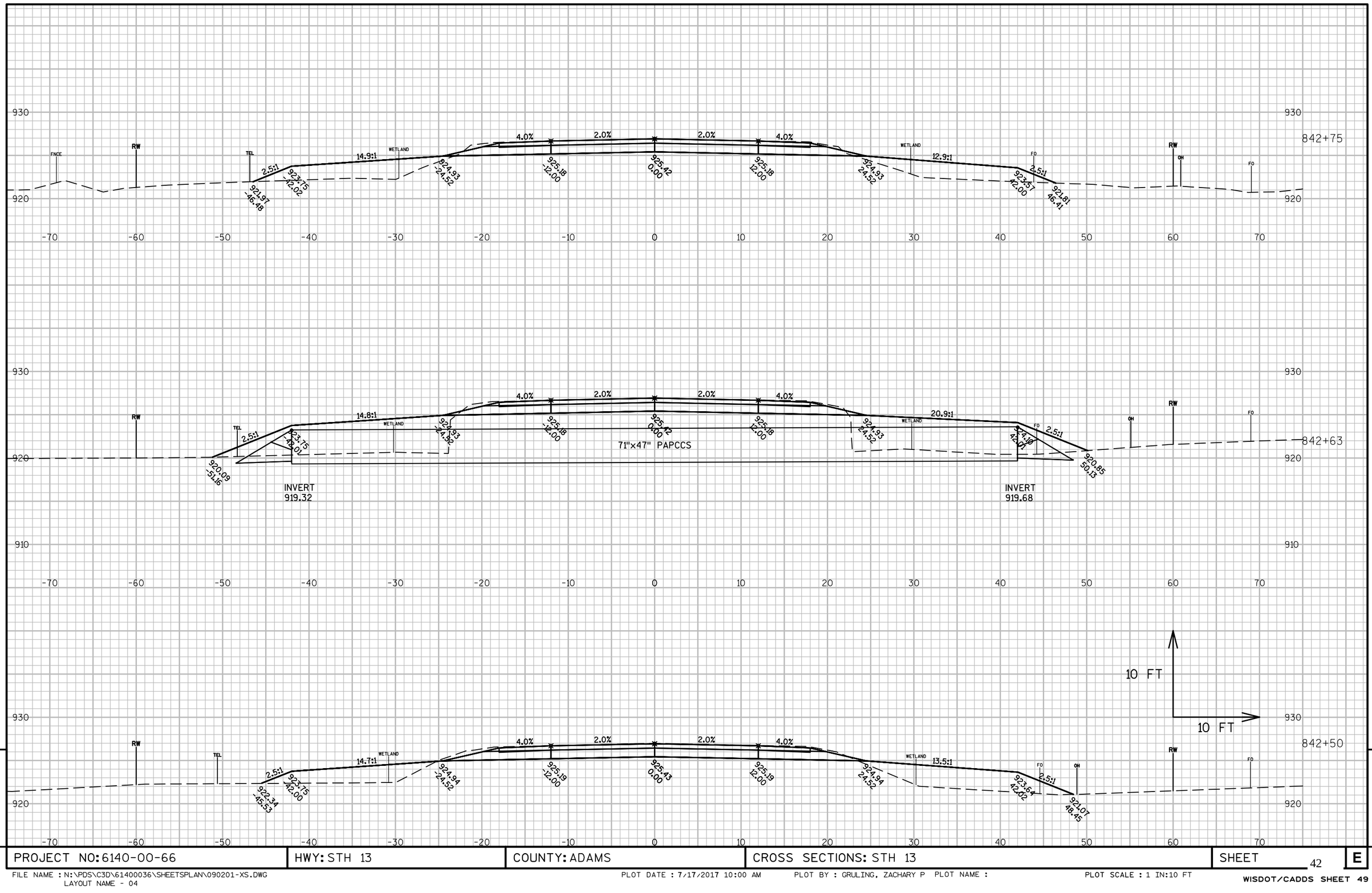
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 41	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

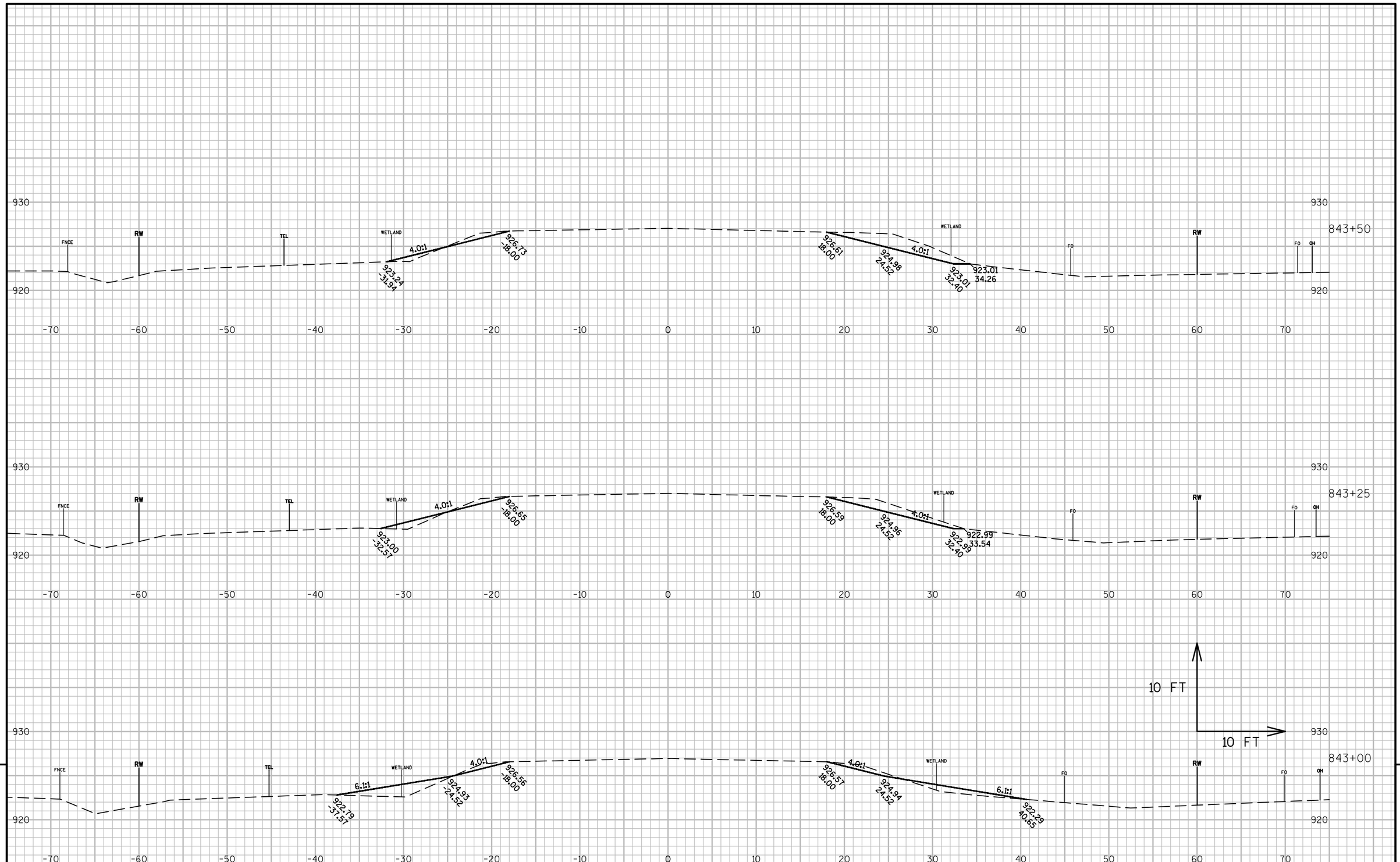
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 42	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

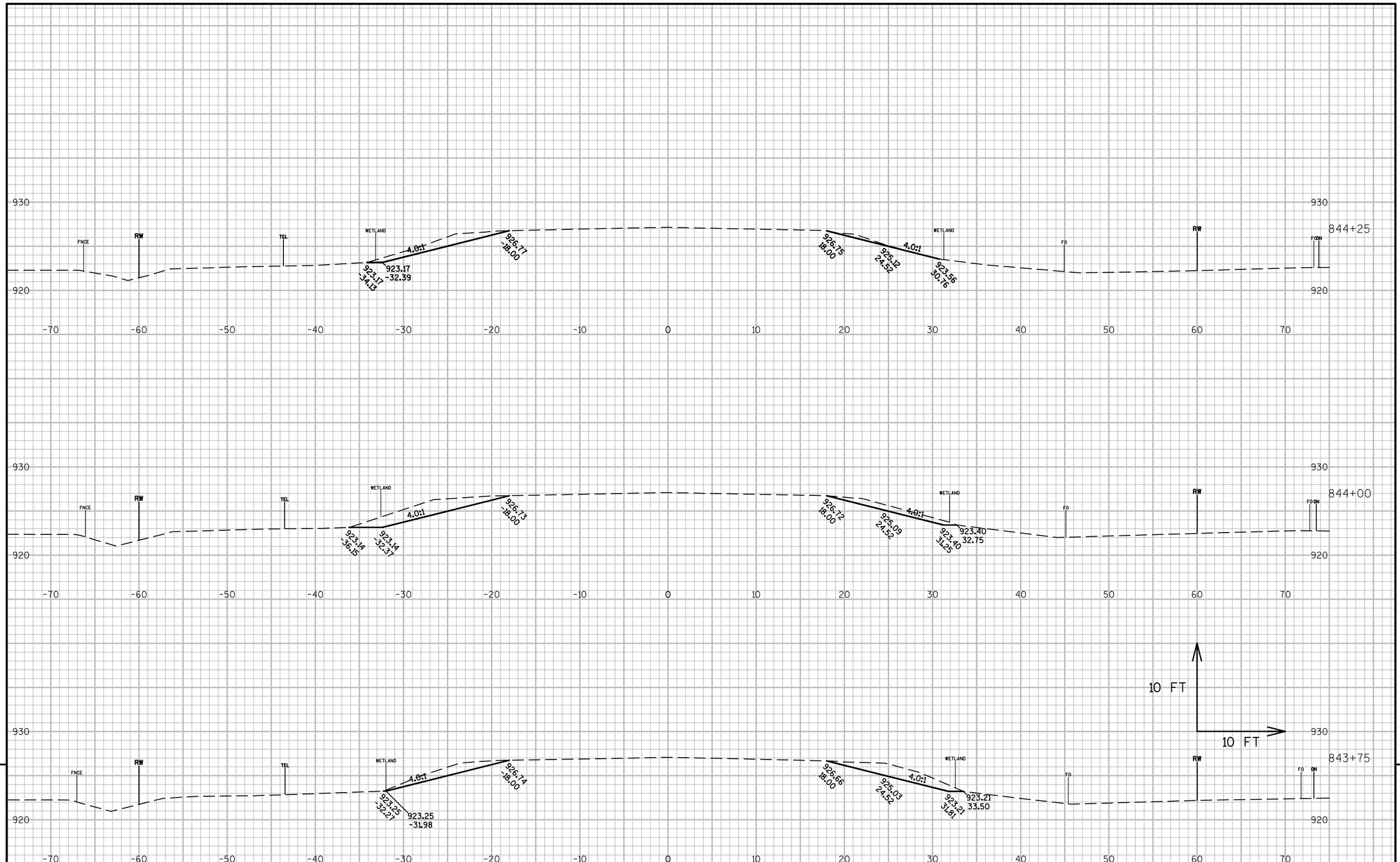
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 43	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 44	E

9

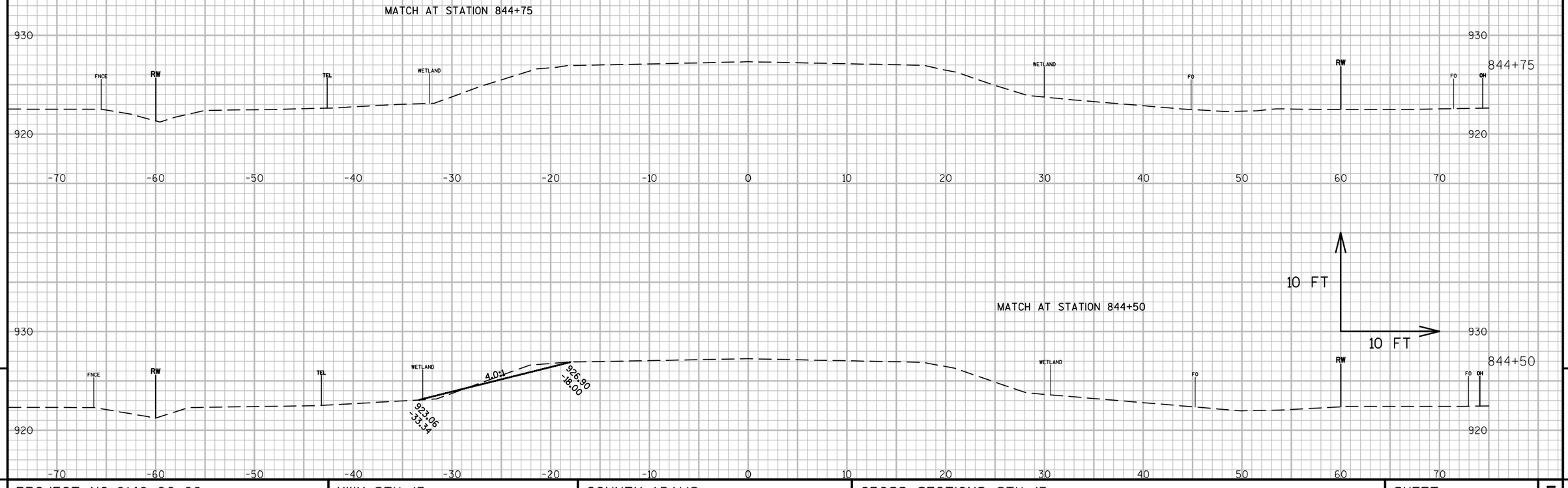
FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

MATCH AT STATION 844+75



MATCH AT STATION 844+50

9

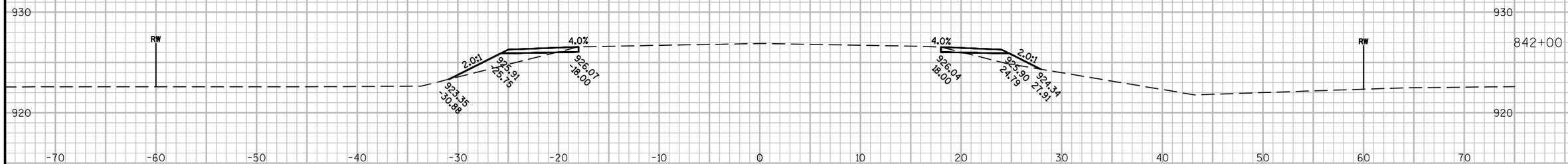
9

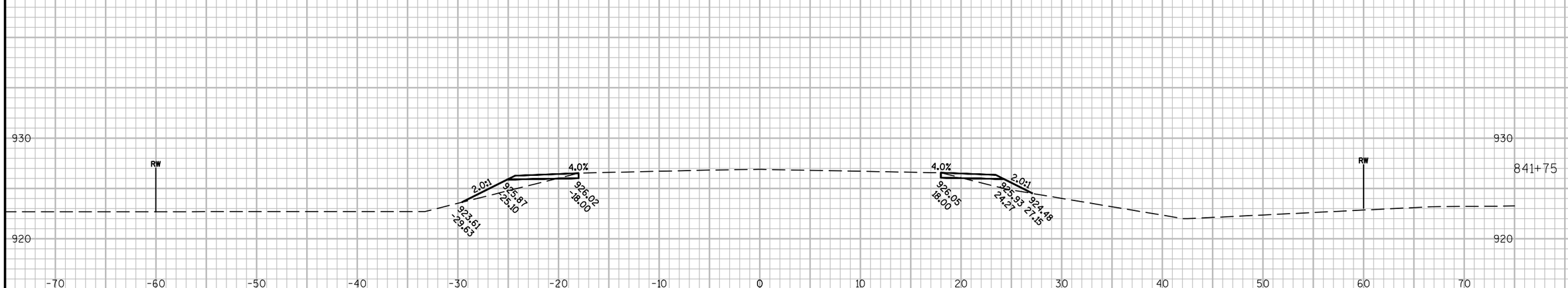
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13	SHEET 45	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

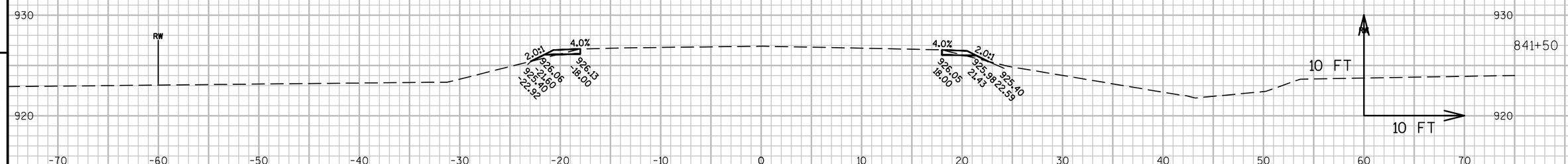
PLOT DATE : 7/17/2017 10:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT

CROSS SECTIONS ARE FOR INFORMATION PURPOSES ONLY
EXISTING SURFACE SHOWN IS THE FINAL SURFACE





START ABRUPTLY LT AND RT



9

9

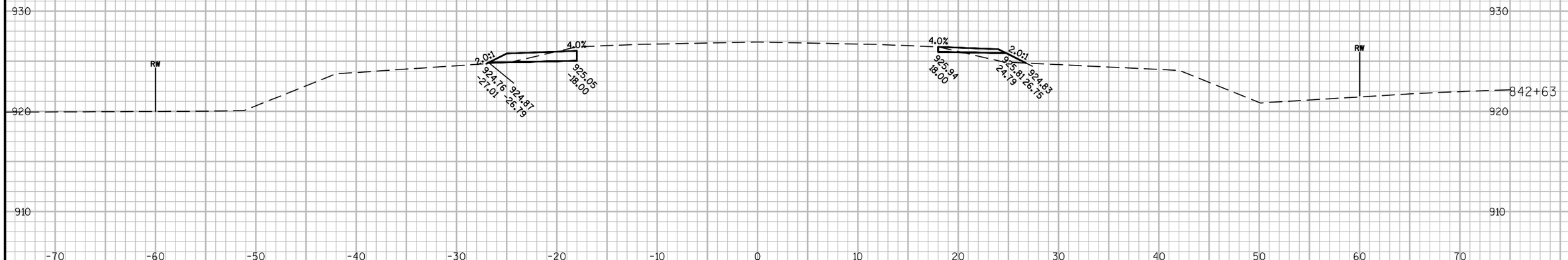
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13 LANE SHIFT	SHEET 46	E

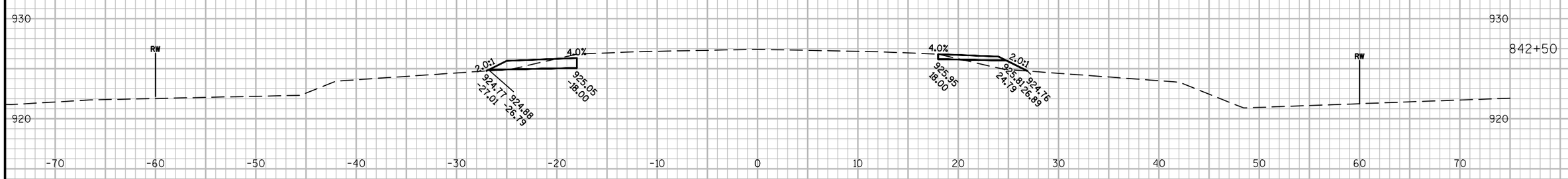
FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 01

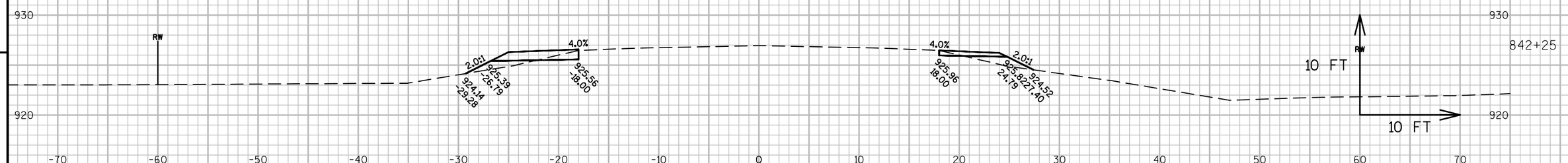
PLOT DATE : 6/7/2017 11:27 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

CROSS SECTIONS ARE FOR INFORMATION PURPOSES ONLY
EXISTING SURFACE SHOWN IS THE FINAL SURFACE







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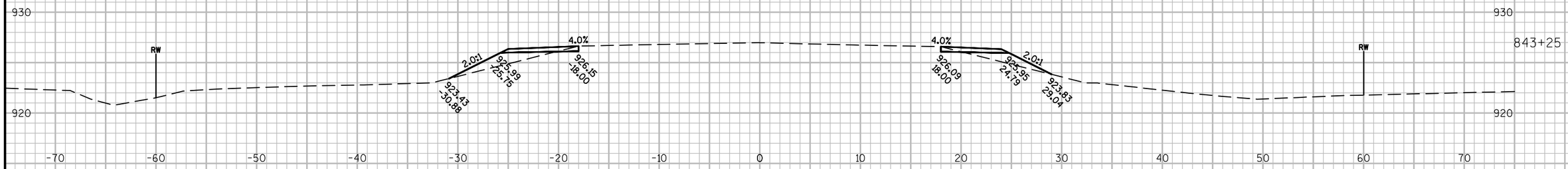
9

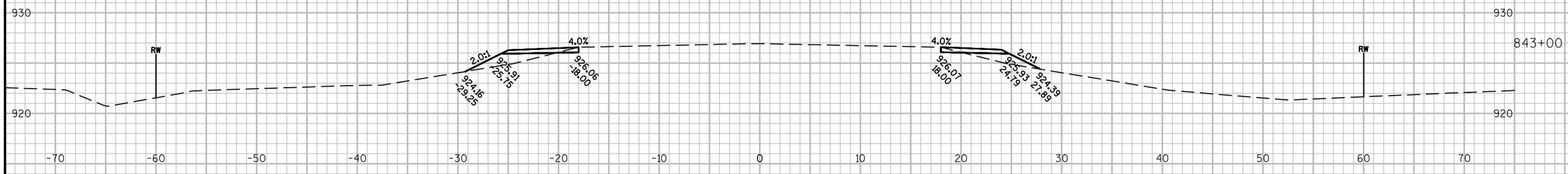
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13 LANE SHIFT	SHEET 47	E

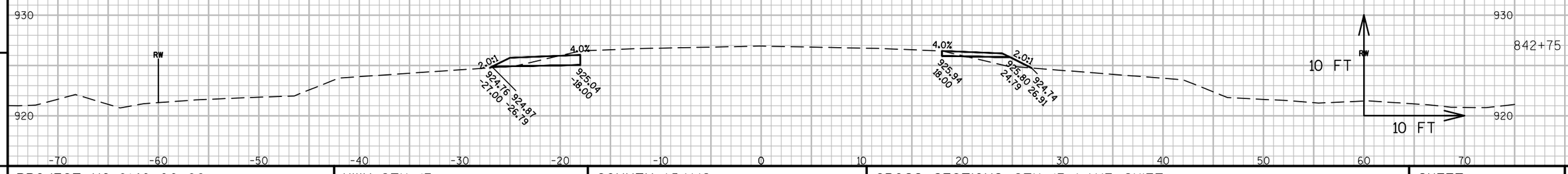
FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 6/7/2017 11:27 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT

CROSS SECTIONS ARE FOR INFORMATION PURPOSES ONLY
EXISTING SURFACE SHOWN IS THE FINAL SURFACE







9

9

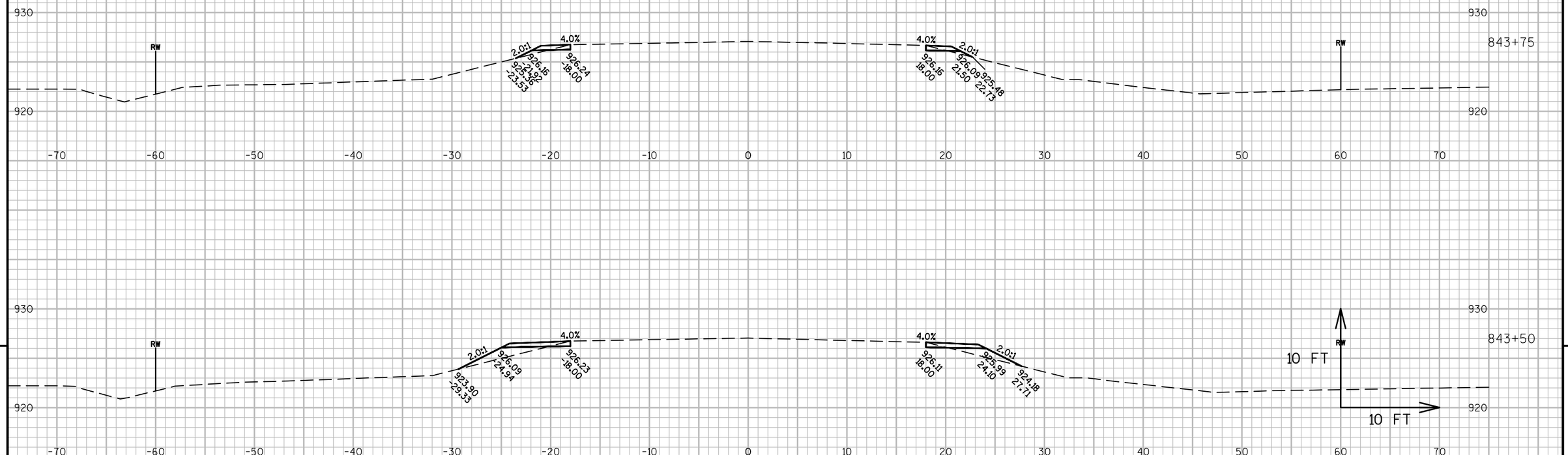
PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13 LANE SHIFT	SHEET 48	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 6/7/2017 11:27 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT

CROSS SECTIONS ARE FOR INFORMATION PURPOSES ONLY
EXISTING SURFACE SHOWN IS THE FINAL SURFACE

END ABRUPTLY LT AND RT



9 9

PROJECT NO: 6140-00-66	HWY: STH 13	COUNTY: ADAMS	CROSS SECTIONS: STH 13 LANE SHIFT	SHEET 49	E

FILE NAME : N:\PDS\C3D\61400036\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 6/7/2017 11:27 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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