

EAU  
PROJECT ID: 7277-00-70  
WITH: N/A

COUNTY: TREMPEALEAU

MAY 2018  
ORDER OF SHEETS

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

TOTAL SHEETS = 48

38

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T BURNSIDE, LYGA VALLEY ROAD

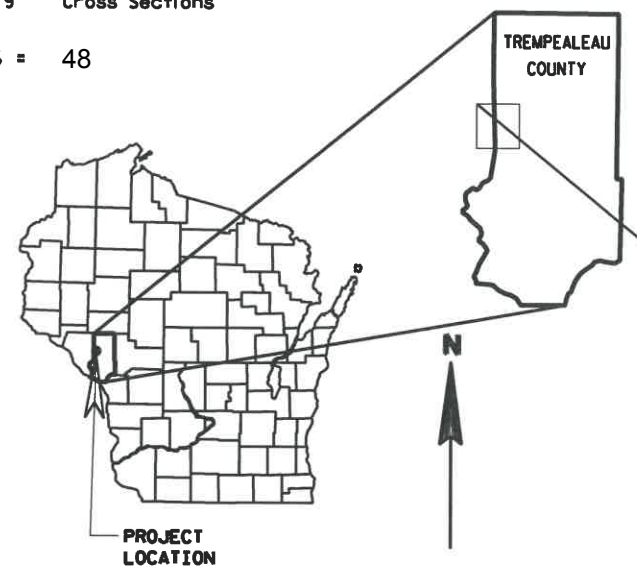
TRAVERSE VALLEY CR BRIDGE B610225

LOC STR

TREMPEALEAU COUNTY

STATE PROJECT NUMBER  
7277-00-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7277-00-70		



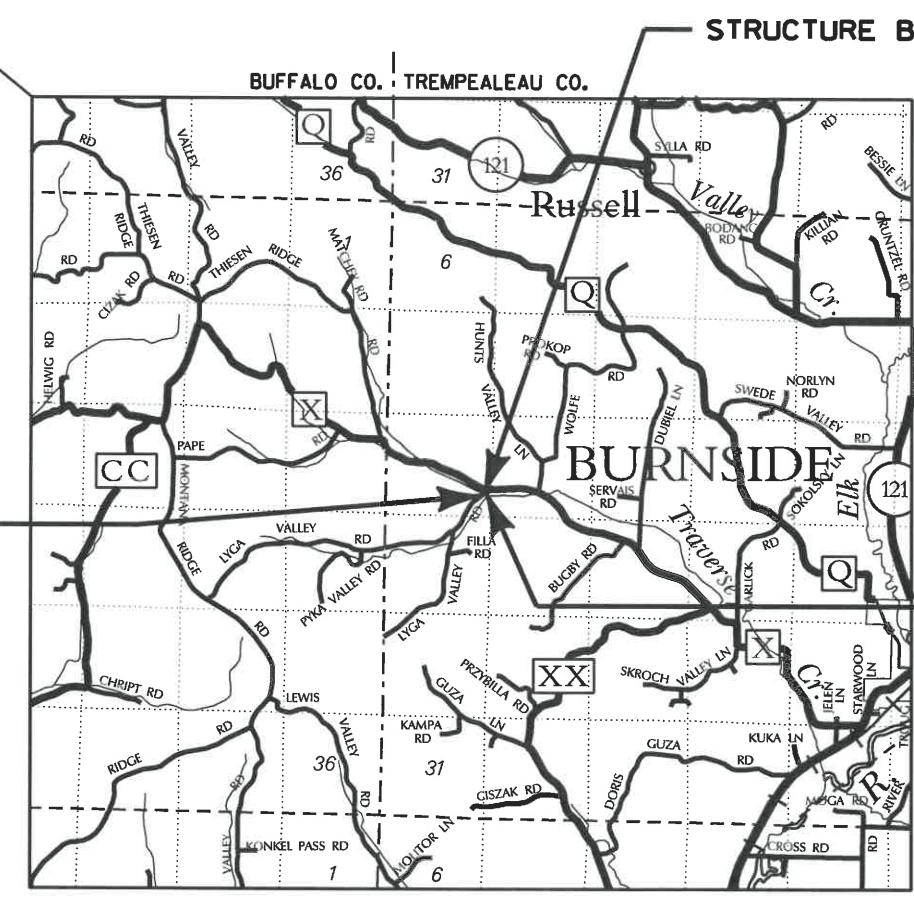
DESIGN DESIGNATION  
A.D.T. (2018) = 180  
A.D.T. (2038) = 240  
D.H.V. = 20  
D. = 50/50  
T. = 5%  
DESIGN SPEED = 40 MPH  
ESALS = 36,500

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  
HIGH VOLTAGE  
MARSH AREA  
WOODED OR SHRUB AREA

- PROFILE  
GRADE LINE  
ORIGINAL GROUND  
MARSH OR ROCK PROFILE  
(To be noted as such)  
SPECIAL DITCH  
GRADE ELEVATION  
CULVERT (Profile View)  
UTILITIES  
OVERHEAD  
ELECTRIC  
FIBER OPTIC  
GAS  
SANITARY SEWER  
STORM SEWER  
TELEPHONE  
WATER  
UTILITY PEDESTAL  
POWER POLE  
TELEPHONE POLE

BEGIN PROJECT  
STA. 18+50  
Y = 444536.11  
X = 805430.63



STRUCTURE B-61-225

T-23-N  
T-22-N

END PROJECT  
STA. 21+25  
Y = 444777.15  
X = 805558.70

T-22-N  
T-21-N

R-10-W R-9-W  
LAYOUT  
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.052 MI.

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

ACCEPTED FOR  
Town of Burnside  
1-17-2018  
Date  
Chairman

ACCEPTED FOR  
County of Trempealeau  
1-18-18  
Date  
Highway Commissioner

ORIGINAL PLANS PREPARED BY  
AYRES ASSOCIATES  
3433 Oakwood Hills Parkway  
Eau Claire, WI 54701  
www.AyresAssociates.com

WISCONSIN  
DANIEL N. SYDOW  
E-38363  
WI  
PROFESSIONAL ENGINEER

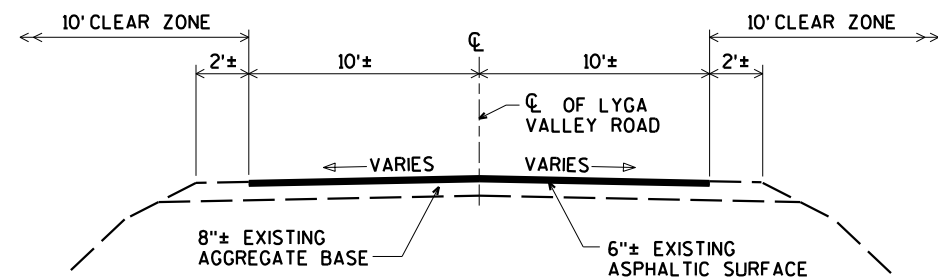
DATE 1/12/2018

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

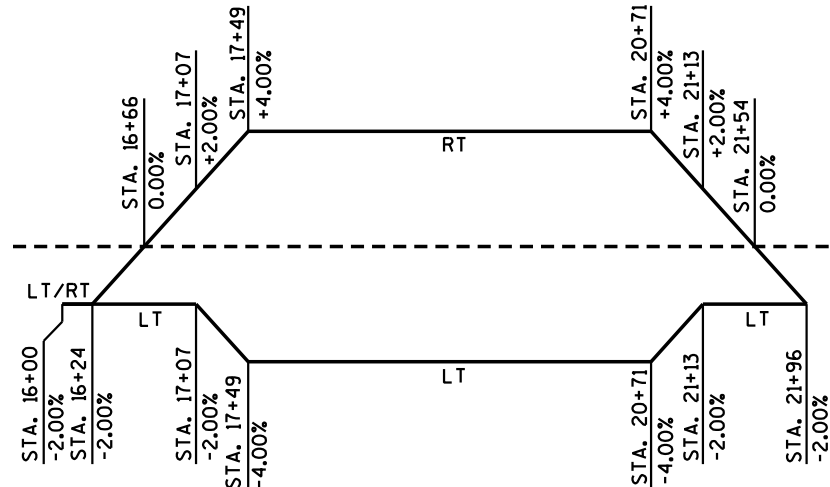
PREPARED BY  
Surveyor AYRES ASSOCIATES INC  
Designer AYRES ASSOCIATES INC

Management Consultant KNIGHT EA

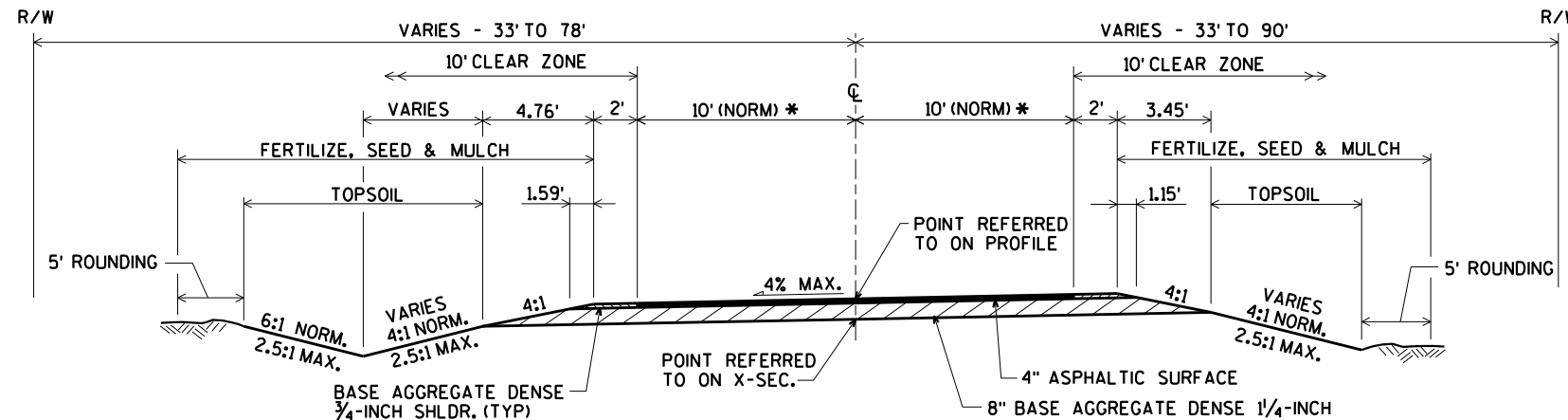
APPROVED FOR THE DEPARTMENT  
DATE 1/29/18  
Management Consultant Signature



**TYPICAL EXISTING SECTION**  
LYGA VALLEY ROAD

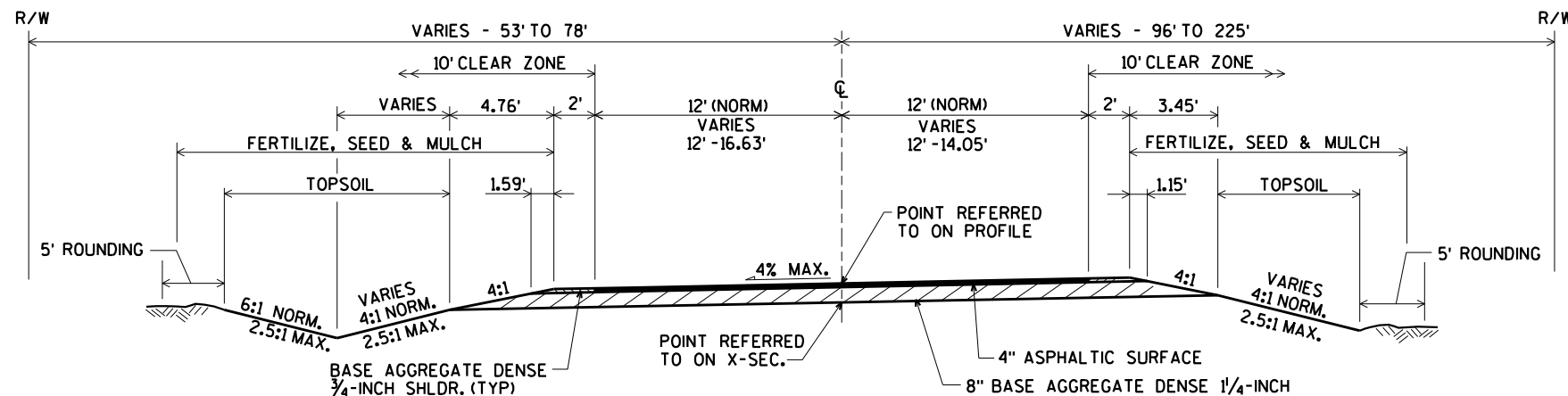


**SUPERELEVATION DIAGRAM**



**TYPICAL FINISHED SECTION**  
STA 16+00 - STA 19+66.75

\* THE ASPHALT SURFACE SHALL TAPER FROM 24 FT WIDE AT THE END OF THE BRIDGE TO 20 FT WIDE AT 50 FT FROM THE END OF THE BRIDGE.



**TYPICAL FINISHED SECTION**  
STA 20+11.25 - STA 21+25

### GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

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.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCLUSIVE OF THE ROADBED, SHALL BE FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

SEED MIXTURE NO. 20 AND SEEDING TEMPORARY SHALL BE USED IN THE PROJECT AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

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

ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4" UPPER LAYER AND A 2 1/4" LOWER LAYER. ASPHALTIC SURFACE SHALL USE 12.5 mm NOMINAL AGGREGATE SIZE.

### UTILITIES

RIVERLAND ENERGY COOPERATIVE  
P.O. BOX 277  
ARCADIA, WI 54612  
ATTN: DOUG GERRITTS  
608-323-3381  
dgerritts@riverlandenergy.com

TRI-COUNTY COMMUNICATIONS COOPERATIVE  
P.O. BOX 578  
STRUM, WI 54770  
ATTN: BUCK WEBB  
715-695-2691  
bwebb@tccpro.net

DAIRYLAND POWER COOPERATIVE  
3200 EAST AVENUE SOUTH  
P.O. BOX 817  
LA CROSSE, WI 54602  
ATTN: ROB MALY  
608-518-2633  
rob.maly@dairylandpower.com

\*\* DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

**DIGGERS HOTLINE**

Dial **811** or (800)242-8511

www.DiggersHotline.com

### DESIGNER

AYRES ASSOCIATES  
3433 OAKWOOD HILLS PARKWAY  
EAU CLAIRE, WI 54701  
ATTN: DANIEL N. SYDOW  
715-834-3161  
sydowd@AyresAssociates.com

### WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT:

KAREN KALVELAGE  
3550 MORMON COULEE RD.  
LACROSSE, WI. 54601  
608-785-9115  
karen.kalvelage@wisconsin.gov

### TOWN OF BURNSIDE

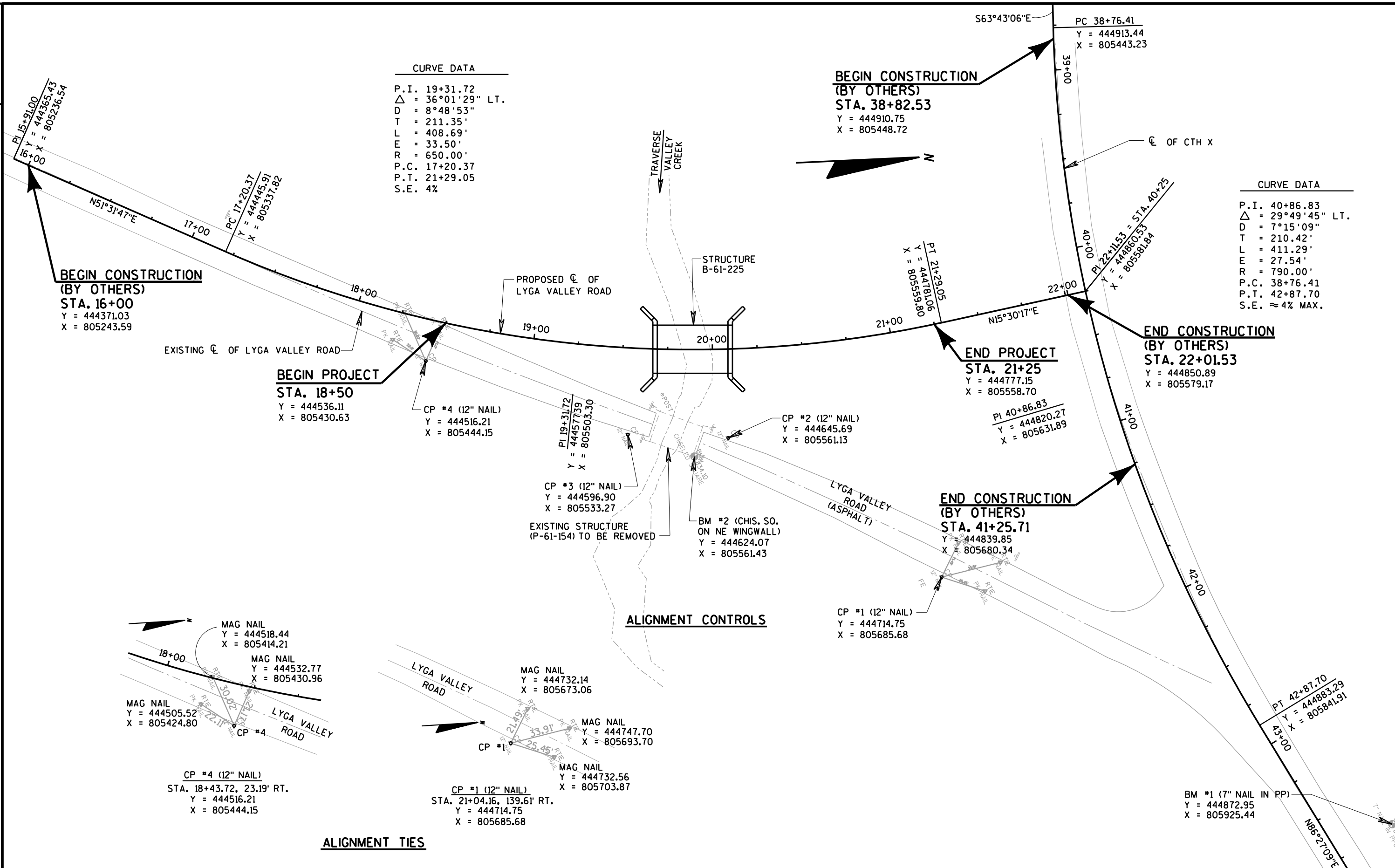
FRED BOE, CHAIRMAN  
W24152 STARWOOD LANE  
INDEPENDENCE, WI 54747  
715-985-2177

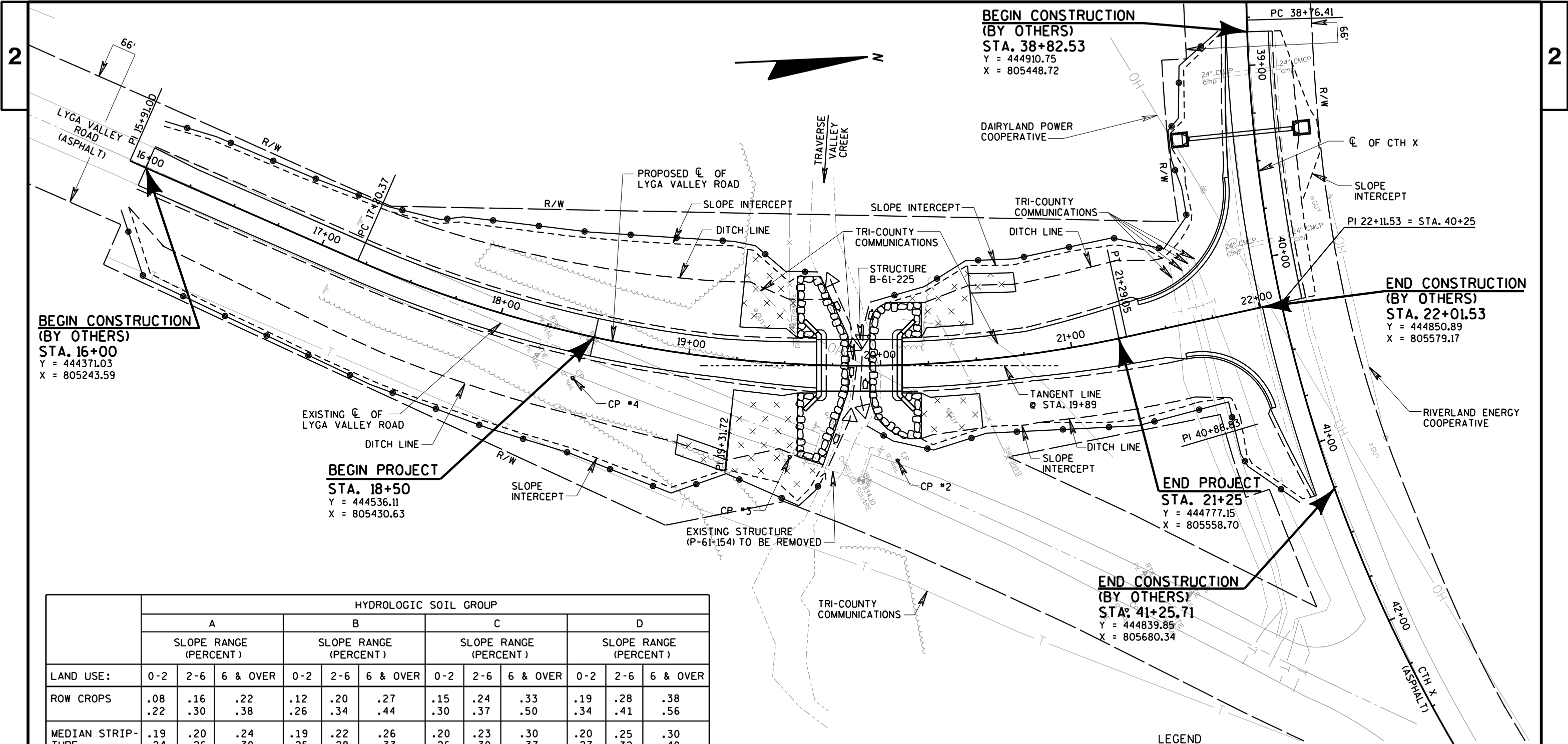
## CURVE DATA

P.I. 19+31.72  
 $\Delta = 36^\circ 01' 29''$  LT.  
D = 8°48'53"  
T = 211.35'  
L = 408.69'  
E = 33.50'  
R = 650.00'  
P.C. 17+20.37  
P.T. 21+29.05  
S.E. 4%

## CURVE DATA

P.I. 40+86.83  
 $\Delta = 29^\circ 49' 45''$  LT.  
D = 7°15'09"  
T = 210.42'  
L = 411.29'  
E = 27.54'  
R = 790.00'  
P.C. 38+76.41  
P.T. 42+87.70  
S.E.  $\approx 4\%$  MAX.





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

TOTAL PROJECT AREA = 0.88 ACRES  
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.59 ACRES

PROJECT NO: 7277-00-70

HWY: LYGA VALLEY ROAD

COUNTY: TREMPLEALEU

EROSION CONTROL

SCALE, FEET 0 25 50 SHEET

E

Estimate Of Quantities

7277-00-70					
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	3.000	3.000
0004	201.0205	Grubbing	STA	3.000	3.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 19+80	LS	1.000	1.000
0008	205.0100	Excavation Common	CY	864.000	864.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-61-0225	LS	1.000	1.000
0012	208.0100	Borrow	CY	1,130.000	1,130.000
0014	210.1500	Backfill Structure Type A	TON	310.000	310.000
0016	213.0100	Finishing Roadway (project) 01. 7277-00-70	EACH	1.000	1.000
0018	214.0100	Obliterating Old Road	STA	2.000	2.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	34.000	34.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	371.000	371.000
0024	455.0605	Tack Coat	GAL	37.000	37.000
0026	465.0105	Asphaltic Surface	TON	139.000	139.000
0028	502.0100	Concrete Masonry Bridges	CY	147.000	147.000
0030	502.3200	Protective Surface Treatment	SY	160.000	160.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,460.000	4,460.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	17,440.000	17,440.000
0036	513.4061	Railing Tubular Type M (structure) 01. B-61-0225	LF	93.000	93.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0040	550.0500	Pile Points	EACH	10.000	10.000
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	425.000	425.000
0044	606.0300	Riprap Heavy	CY	275.000	275.000
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0048	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7277-00-70	EACH	1.000	1.000
0050	619.1000	Mobilization	EACH	1.000	1.000
0052	624.0100	Water	MGAL	12.000	12.000
0054	625.0100	Topsoil	SY	3,420.000	3,420.000
0056	627.0200	Mulching	SY	2,795.000	2,795.000
0058	628.1504	Silt Fence	LF	1,670.000	1,670.000
0060	628.1520	Silt Fence Maintenance	LF	3,340.000	3,340.000
0062	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0064	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0066	628.2027	Erosion Mat Class II Type C	SY	1,110.000	1,110.000
0068	628.6005	Turbidity Barriers	SY	200.000	200.000
0070	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0072	629.0210	Fertilizer Type B	CWT	2.500	2.500
0074	630.0120	Seeding Mixture No. 20	LB	110.000	110.000



Estimate Of Quantities

7277-00-70

Line	Item	Item Description	Unit	Total	Qty
0076	630.0200	Seeding Temporary	LB	80.000	80.000
0078	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0080	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0082	638.2602	Removing Signs Type II	EACH	4.000	4.000
0084	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0086	642.5001	Field Office Type B	EACH	1.000	1.000
0088	643.0420	Traffic Control Barricades Type III	DAY	1,260.000	1,260.000
0090	643.0705	Traffic Control Warning Lights Type A	DAY	1,800.000	1,800.000
0092	643.0900	Traffic Control Signs	DAY	360.000	360.000
0094	643.5000	Traffic Control	EACH	1.000	1.000
0096	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000
0098	645.0120	Geotextile Type HR	SY	515.000	515.000
0100	650.4500	Construction Staking Subgrade	LF	235.000	235.000
0102	650.5000	Construction Staking Base	LF	235.000	235.000
0104	650.6500	Construction Staking Structure Layout (structure) 01. B-61-0225	LS	1.000	1.000
0106	650.9910	Construction Staking Supplemental Control (project) 01. 7277-00-70	LS	1.000	1.000
0108	650.9920	Construction Staking Slope Stakes	LF	235.000	235.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	882.000	882.000

EARTHWORK SUMMARY (CATEGORY 0010)											
DIVISION	STATION TO STATION	LOCATION	**P** 205.0100 EXCAVATION COMMON	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	UNEXPANDED FILL (3)	EXPANDED FILL (5)	MASS ORDINATE ±(6)	WASTE CY	**P** 208.0100 BORROW	COMMENTS:
			CUT (1) CY	(2) CY	(4) CY						
1	16+00 TO 19+67	LYGA VALLEY ROAD	782	0	782	675	878	-96	0	96	
	20+11 TO 22+00	LYGA VALLEY ROAD	82	0	82	859	1,117	-1,035	0	1035	
GRANDTOTAL			864	0	864	1,534	1,994	-1,130	0	1,130	
TOTAL EXCAVATION COMMON			864 CY	TOTAL BORROW 1,130 CY							

NOTES:  
1) EXCAVATION COMMON IS THE SUM OF THE CUT COLUMN. ITEM NUMBER 205.0100  
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.  
3) DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME.  
4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL  
5) EXPANDED FILL FACTOR = 1.30  
EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR  
6) THE MASS ORDINATE ± QTY CALCUTATED FOR THE DIVISION.  
PLUS (+) QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.  
MINUS (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

\*\*P\*\* PAY PLAN QUANTITY

CLEARING AND GRUBBING (CATEGORY 0010)			
STATION TO STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
Sta. 18+50 to Sta. 21+25	LYGA VALLEY ROAD	3	3

213.0100 FINISHING ROADWAY (CATEGORY 0010)

LOCATION	EACH
PROJECT 7277-00-70	1

214.0100 OBLITERATING OLD ROAD (CATEGORY 0010)		
STATION TO STATION	LOCATION	STA
Sta. 19+90 to Sta. 22+00	LYGA VALLEY ROAD	2

BASE AGGREGATE DENSE (CATEGORY 0010)		
STATION TO STATION	LOCATION	305.0110 3/4-INCH TON
Sta. 18+05 to Sta. 19+67	LYGA VALLEY ROAD	17
Sta. 20+11 to Sta. 21+25	LYGA VALLEY ROAD	17
TOTALS		34

BASE AGGREGATE DENSE (CATEGORY 0010)

		305.0120
		1 1/4-INCH
STATION TO STATION	LOCATION	TON
Sta. 18+05 to Sta. 19+67	LYGA VALLEY ROAD	175
Sta. 20+11 to Sta. 21+25	LYGA VALLEY ROAD	196
TOTALS		371

PAVING QUANTITIES (CATEGORY 0010)

		455.0605	465.0105
		TACK COAT	ASPHALTIC SURFACE
STATION TO STATION	LOCATION	GAL	TON
Sta. 18+05 to Sta. 19+67	LYGA VALLEY ROAD	17	64
Sta. 20+11 to Sta. 21+25	LYGA VALLEY ROAD	20	75
TOTALS		37	139

618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS  
7277-00-70 (CATEGORY 0030)

LOCATION	EACH
PROJECT 7277-00-70	1

619.1000 MOBILIZATION

LOCATION	EACH
PROJECT 7277-00-70 (CATEGORY 0010)	0.4
PROJECT 7277-00-70 (CATEGORY 0020)	0.6
TOTAL	1

WATER (CATEGORY 0010)

		624.0100
		WATER
TYPE	LOCATION	MGAL
COMPACTION	PROJECT	6
DUST CONTROL	PROJECT	6
TOTALS		12

SALVAGED TOPSOIL, MULCHING, FERTILIZER, SEED & TEMPORARY SEED (CATEGORY 0010)

		625.0100	627.0200	629.0210	630.0120	630.0200
		TOPSOIL	MULCHING	FERTILIZER	SEEDING	SEEDING
STATION TO STATION	LOCATION	SY	SY	TYPE B	NO. 20	TEMPORARY
Sta. 18+50 to Sta. 19+67	LYGA VALLEY ROAD	1,510	1,020	1.8	76	46
Sta. 20+11 to Sta. 21+25	LYGA VALLEY ROAD	840	675	0.1	10	10
Undistributed		---	---			
OBLITERATE OLD ROADWAY (Project)		1,070	1,100	0.6	24	24
TOTALS		3,420	2,795	2.5	110	80

SILT FENCE & SILT FENCE MAINTENANCE (CATEGORY 0010)

		628.1504	628.1520
		LF	MAINTENANCE
STATION TO STATION	LOCATION	LF	LF
Sta. 16+00 to Sta. 19+66	LYGA VALLEY ROAD, LT.	355	710
Sta. 16+00 to Sta. 19+72	LYGA VALLEY ROAD, RT.	425	850
Sta. 19+86 to Sta. 22+03	LYGA VALLEY ROAD, RT.	265	530
Sta. 20+00 to Sta. 22+10	LYGA VALLEY ROAD, LT.	290	580
Undistributed		335	670
TOTALS		1,670	3,340



628.2027 EROSION MAT CLASS II TYPE C (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 19+25 to Sta. 19+56	LYGA VALLEY ROAD, LT.	180
Sta. 19+25 to Sta. 19+58	LYGA VALLEY ROAD, RT.	395
Sta. 20+20 to Sta. 20+50	LYGA VALLEY ROAD, RT.	135
Sta. 20+22 to Sta. 20+50	LYGA VALLEY ROAD, LT.	175
Undistributed		225
TOTALS		1,110

MOBILIZATIONS EROSION CONTROL & EMERGENCY EROSION CONTROL (CATEGORY 0010)

LOCATION	628.1905	628.1910
	MOBILIZATIONS EROSION CONTROL EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT 7277-00-70	4	2

628.6005 TURBIDITY BARRIER (CATEGORY 0010)

LOCATION	SY
SOUTH ABUTMENT	100
NORTH ABUTMENT	60
UNDISTRIBUTED	40
TOTALS	200

628.7504 TEMPORARY DITCH CHECKS (CATEGORY 0010)

LOCATION	LF
UNDISTRIBUTED	50

634.0612 WOOD POSTS 4X6 INCH X 12 FT (CATEGORY 0010)

STATION	LOCATION	EACH
Sta. 19+66	LYGA VALLEY ROAD, LT (W5-52L)	1
Sta. 19+67	LYGA VALLEY ROAD, RT (W5-52R)	1
Sta. 20+12	LYGA VALLEY ROAD, LT (W5-52R)	1
Sta. 20+11	LYGA VALLEY ROAD, RT (W5-52L)	1
TOTAL		4

637.2230 SIGNS TYPE II REFLECTIVE F (CATEGORY 0010)

STATION	LOCATION	DESCRIPTION	SF
Sta. 19+66	LYGA VALLEY ROAD, LT.	W5-52L (OBJECT MARKER)	3
Sta. 19+67	LYGA VALLEY ROAD, RT.	W5-52R (OBJECT MARKER)	3
Sta. 20+12	LYGA VALLEY ROAD, LT.	W5-52R (OBJECT MARKER)	3
Sta. 20+11	LYGA VALLEY ROAD, RT.	W5-52L (OBJECT MARKER)	3
TOTAL			12

REMOVING (CATEGORY 0010)

STATION	LOCATION	DESCRIPTION	638.2602	638.3000
			REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH
Sta. 19+63	LYGA VALLEY ROAD, RT.	OBJECT MARKER	1	1
Sta. 19+66	LYGA VALLEY ROAD, RT.	OBJECT MARKER	1	1
Sta. 19+94	LYGA VALLEY ROAD, RT.	OBJECT MARKER	1	1
Sta. 20+00	LYGA VALLEY ROAD, RT.	OBJECT MARKER	1	1
TOTAL			4	4

642.5001 FIELD OFFICE TYPE B (CATEGORY 0010)

LOCATION	EACH
PROJECT 7277-00-70	1
TOTAL	1

643.0420 TRAFFIC CONTROL BARRICADES TYPE III (CATEGORY 0010)

LOCATION	DAYS
PROJECT 7277-00-70	1260
TOTAL	1260

643.0705 TRAFFIC CONTROL LIGHTS TYPE A (CATEGORY 0010)

LOCATION	DAYS
PROJECT 7277-00-70	1800
TOTAL	1800

643.0900 TRAFFIC CONTROL SIGNS (CATEGORY 0010)

LOCATION	DAYS
PROJECT 7277-00-70	360
TOTAL	360

643.5000 TRAFFIC CONTROL (CATEGORY 0010)

LOCATION	EACH
PROJECT 7277-00-70	1
TOTAL	1

CONSTRUCTION STAKING

			650.4500 SUBGRADE LF	650.5000 BASE LF	650.6500 STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTARY CONTROL LS	650.9920 SLOPE STAKES LF
0010	Sta. 18+50 to Sta. 21+25	LYGA VALLEY ROAD	235	235	---	1	235
0020	B-61-225	LYGA VALLEY ROAD	---	---	1	---	---
TOTALS			235	235	1	1	235

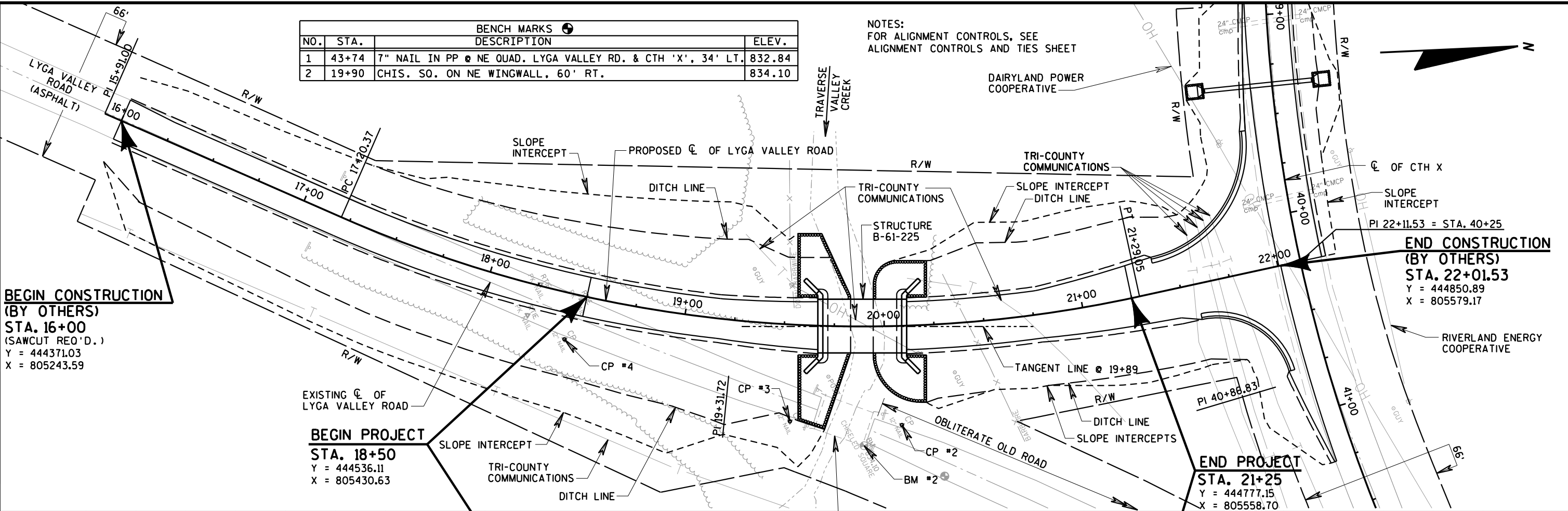






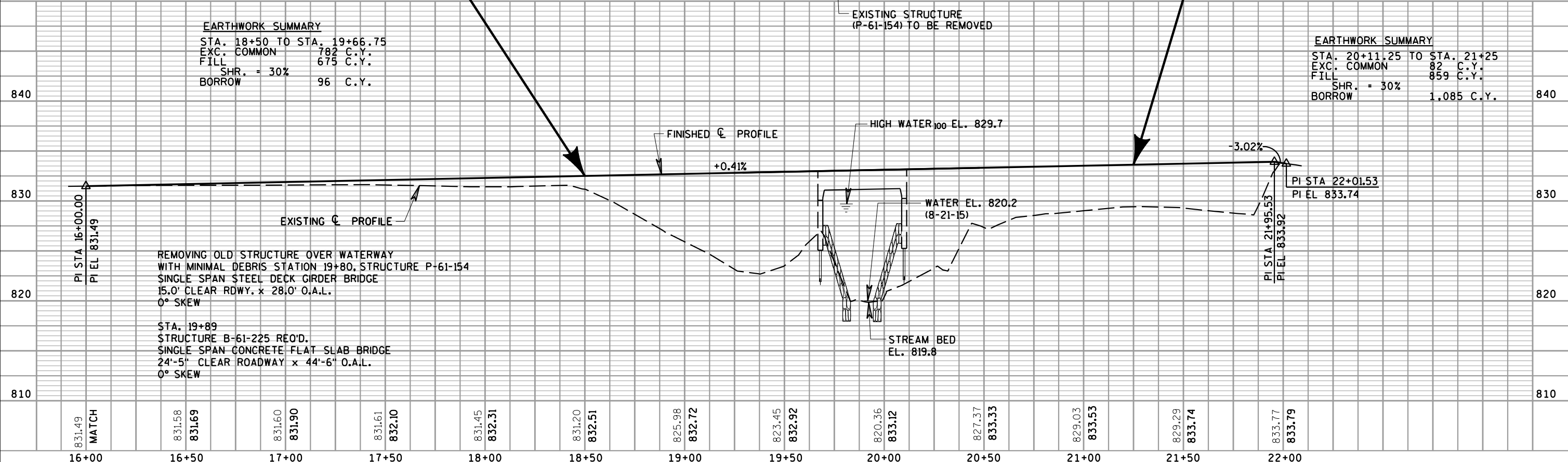
BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
1	43+74	7" NAIL IN PP @ NE QUAD. LYGA VALLEY RD. & CTH 'X', 34' LT.	832.84
2	19+90	CHIS. SO. ON NE WINGWALL, 60' RT.	834.10

NOTES:  
FOR ALIGNMENT CONTROLS, SEE  
ALIGNMENT CONTROLS AND TIES SHEET



EARTHWORK SUMMARY	
STA. 18+50 TO STA. 19+66.75	
EXC. COMMON	782 C.Y.
FILL	675 C.Y.
SHR. = 30%	
BORROW	96 C.Y.

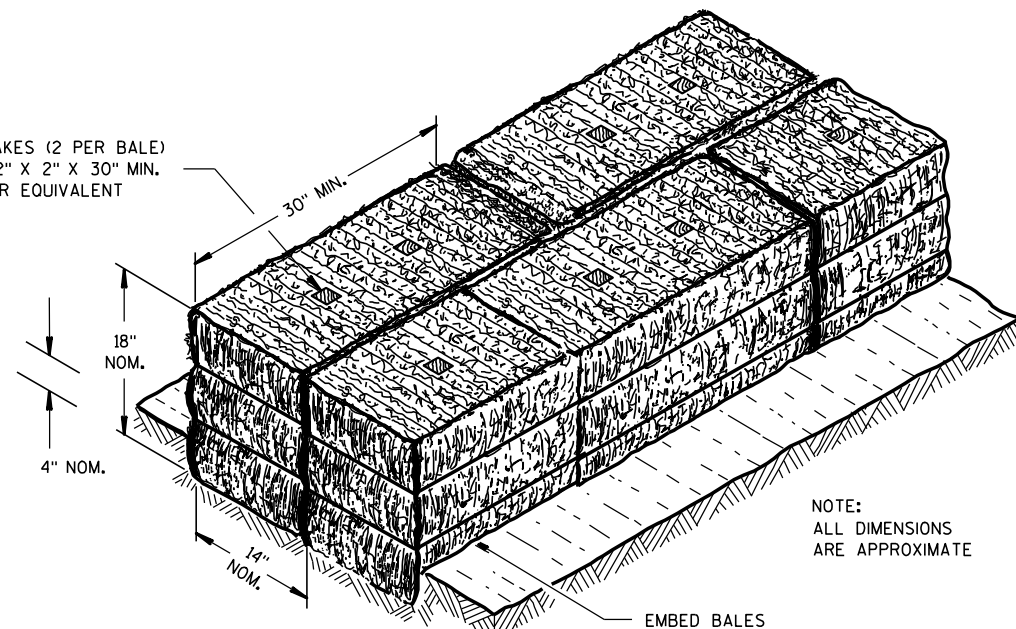
EARTHWORK SUMMARY	
STA. 20+11.25 TO STA. 21+25	
EXC. COMMON	82 C.Y.
FILL	859 C.Y.
SHR. = 30%	
BORROW	1,085 C.Y.



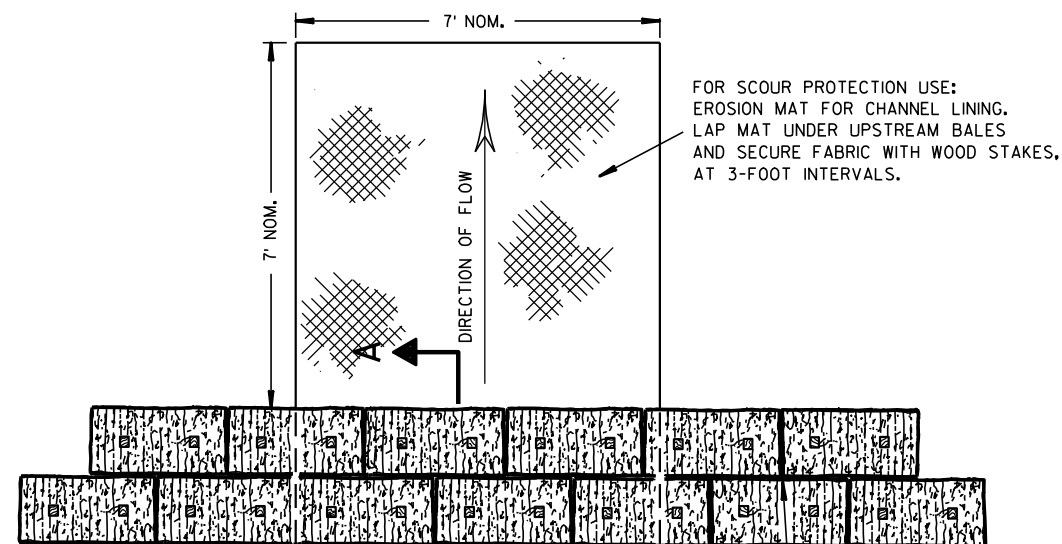
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

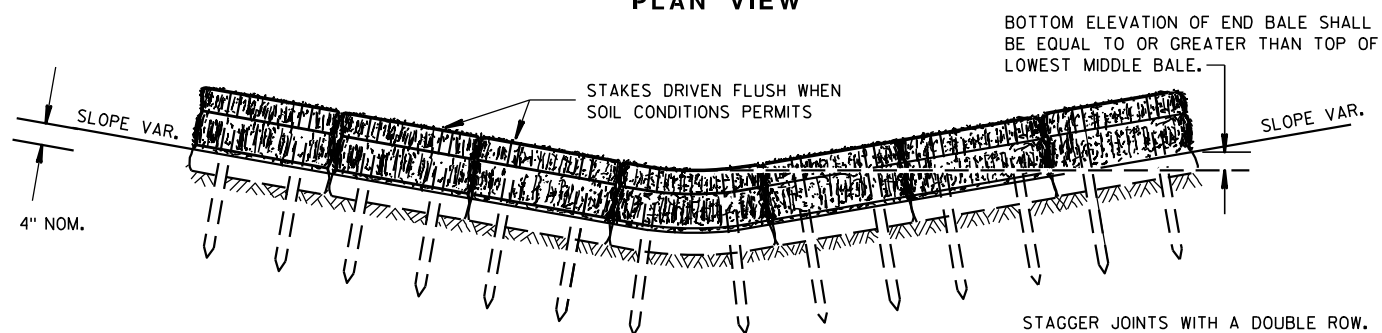
WOOD STAKES (2 PER BALE)  
NOMINAL 2" X 2" X 30" MIN.  
LENGTH OR EQUIVALENT



SECTION A-A



PLAN VIEW



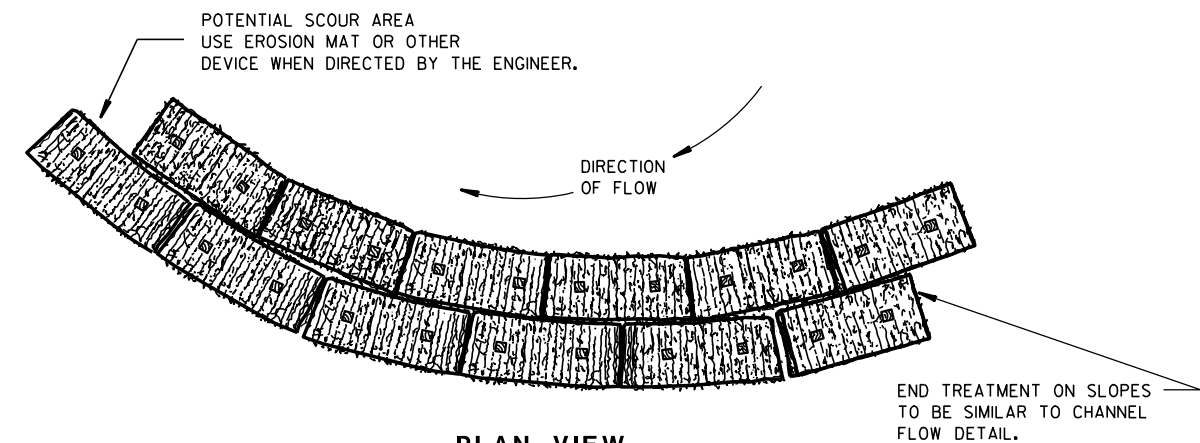
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

## GENERAL NOTES

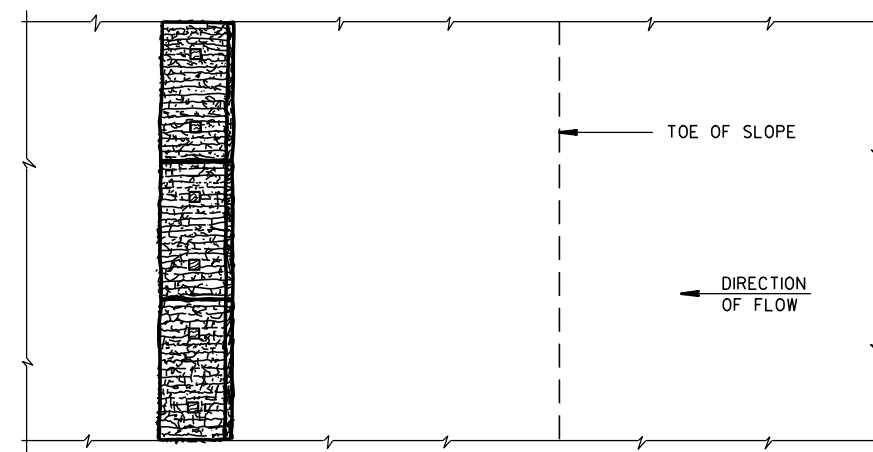
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 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.

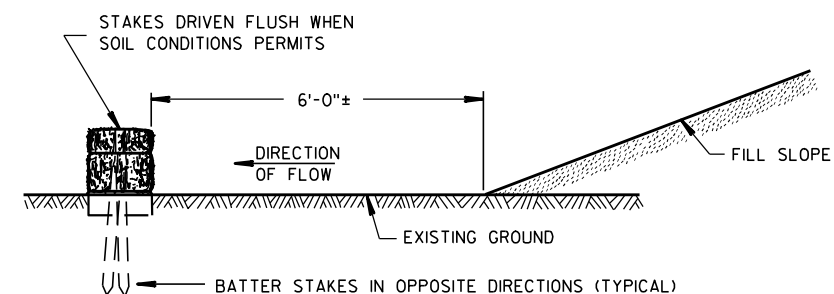


PLAN VIEW

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

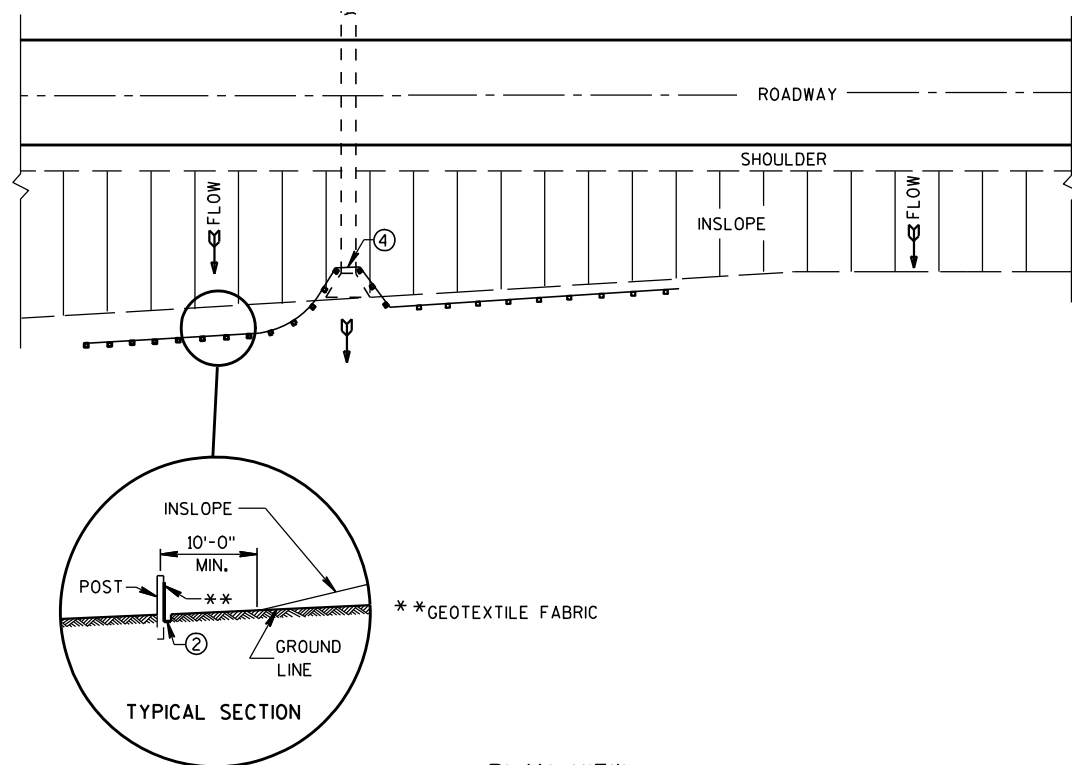
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02  
DATE

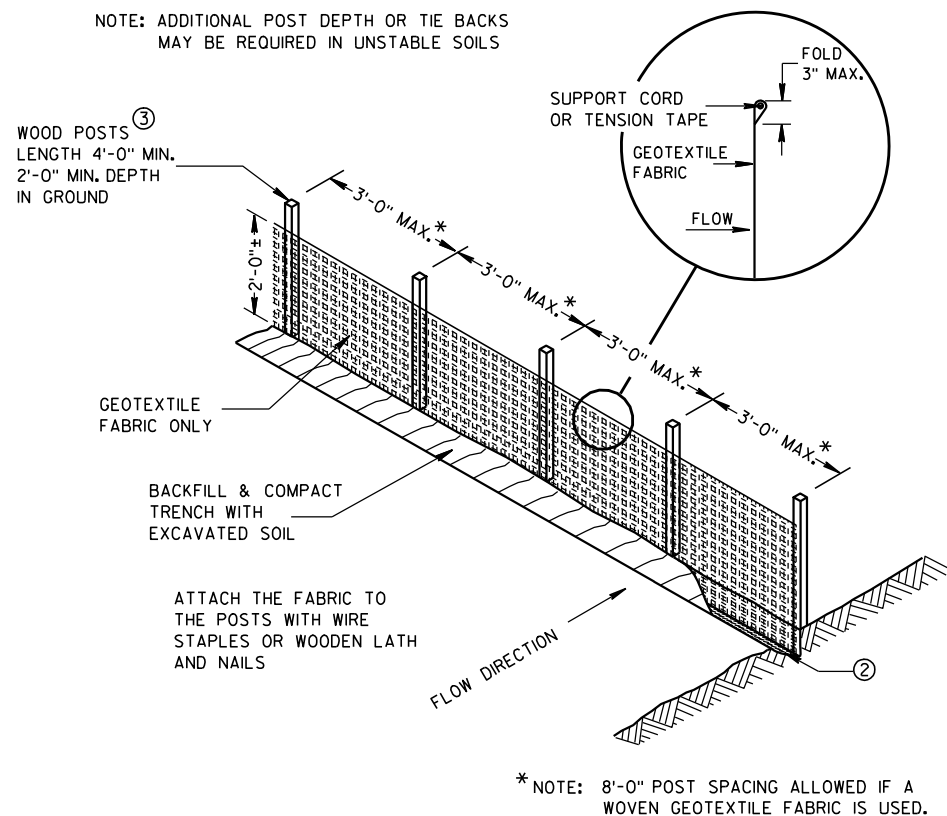
/S/ Beth Canestra  
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

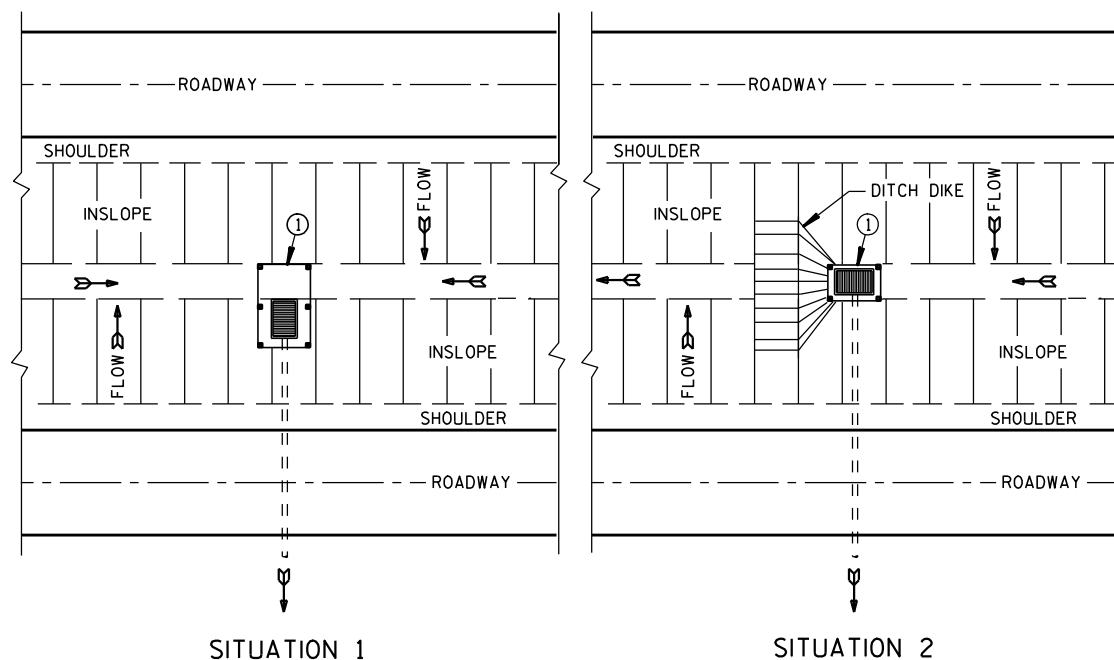


**TYPICAL APPLICATION OF SILT FENCE**

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

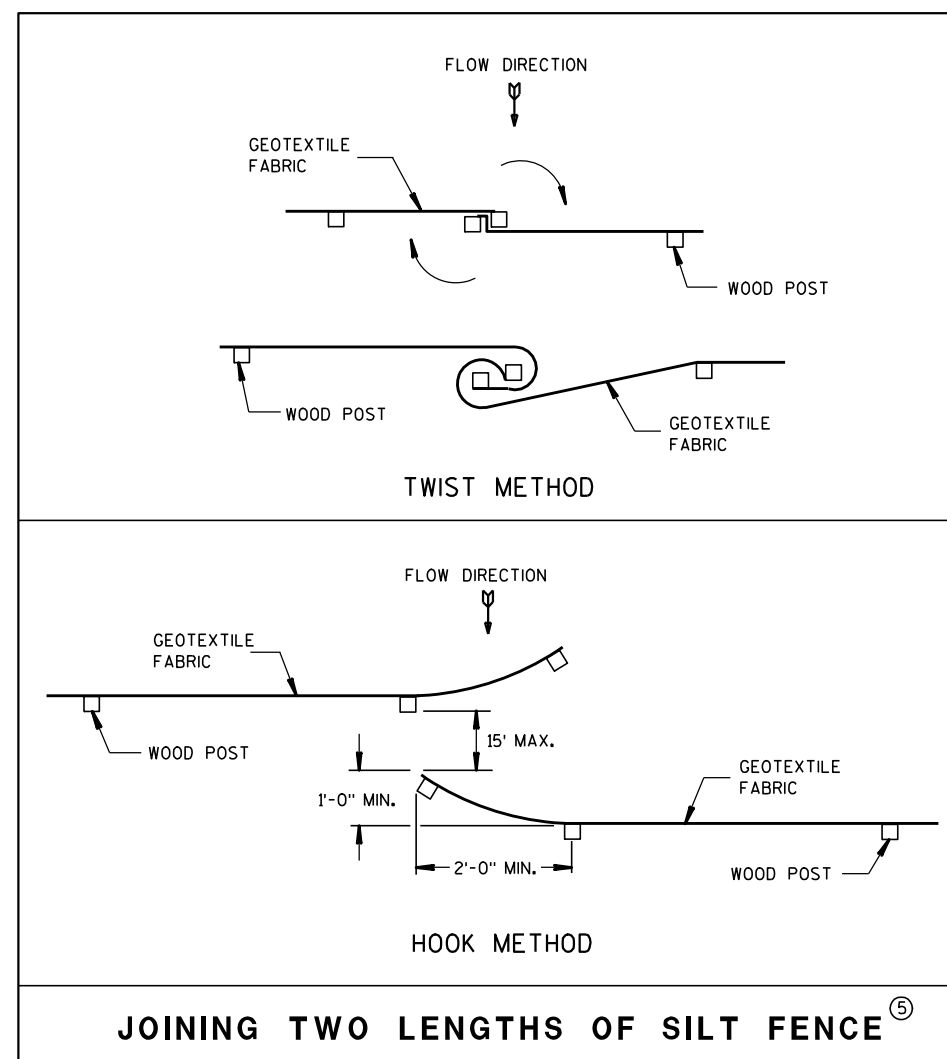


**SILT FENCE**



**PLAN VIEW**

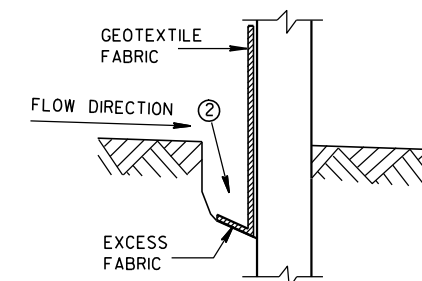
**SILT FENCE AT MEDIAN SURFACE DRAINS**



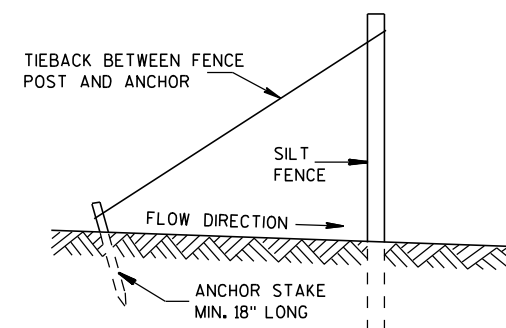
## GENERAL NOTES

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 1 1/8" X 1 1/8" 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 TIE BACK**  
(WHEN REQUIRED BY THE ENGINEER)

## SILT FENCE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

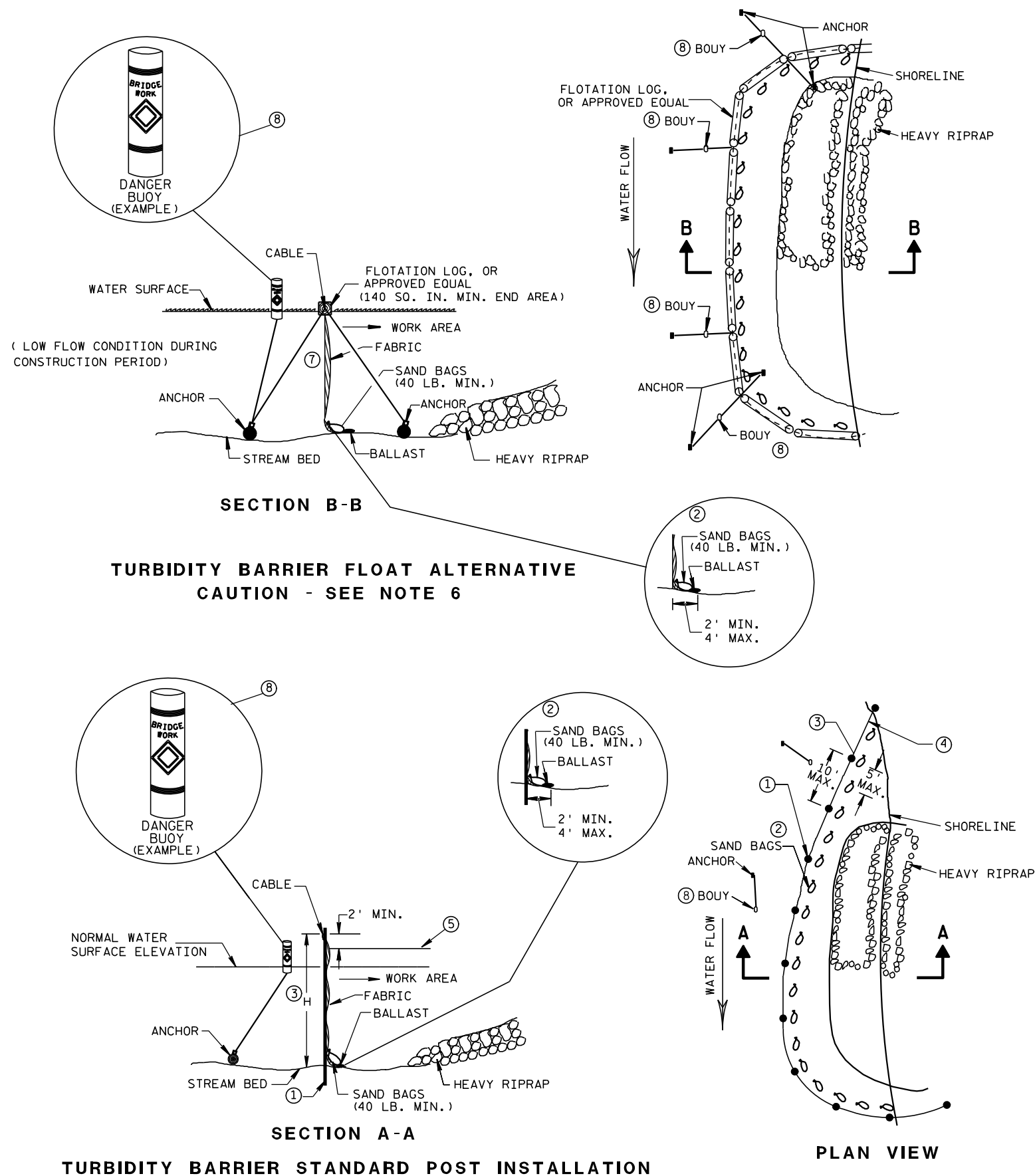
APPROVED

4-29-05  
DATE

FHWA

/S/ Beth Cannestra  
CHIEF ROADWAY DEVELOPMENT ENGINEER



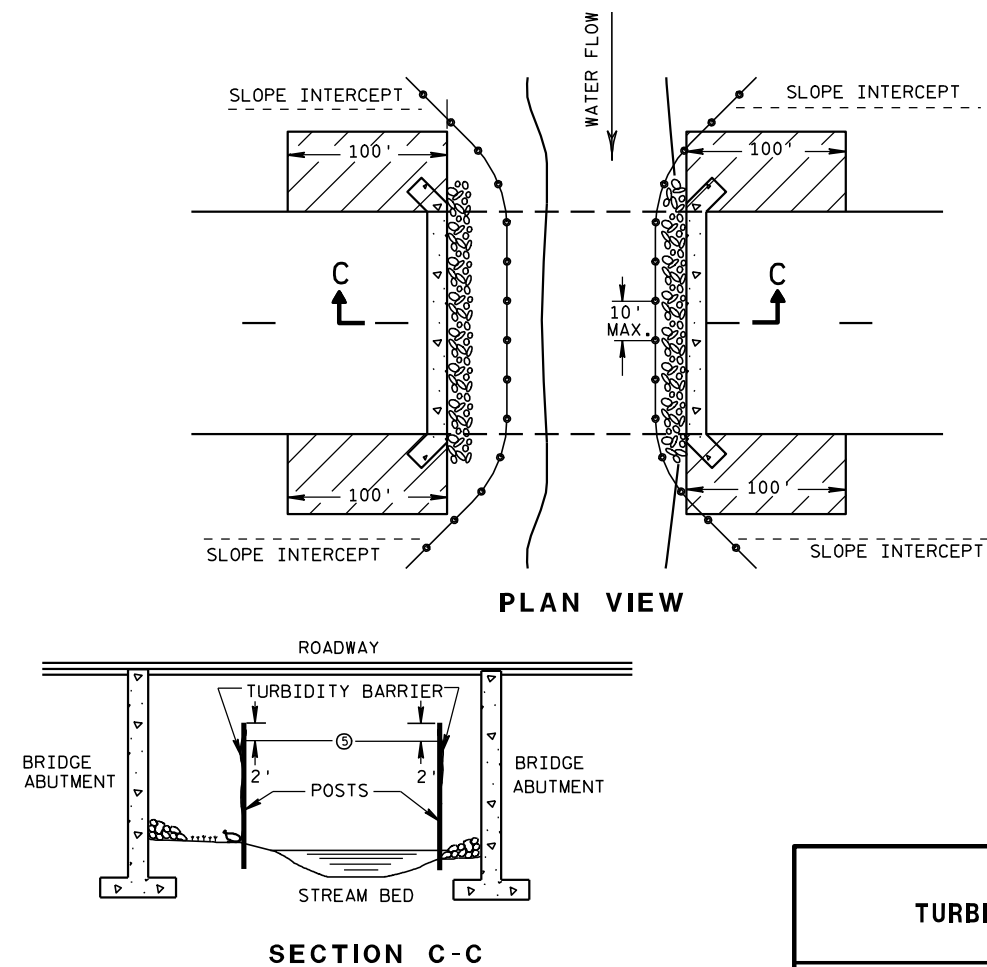


## GENERAL NOTES

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- ② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- ③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- ④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- ⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- ⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- ⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- ⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



## TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

### TURBIDITY BARRIER

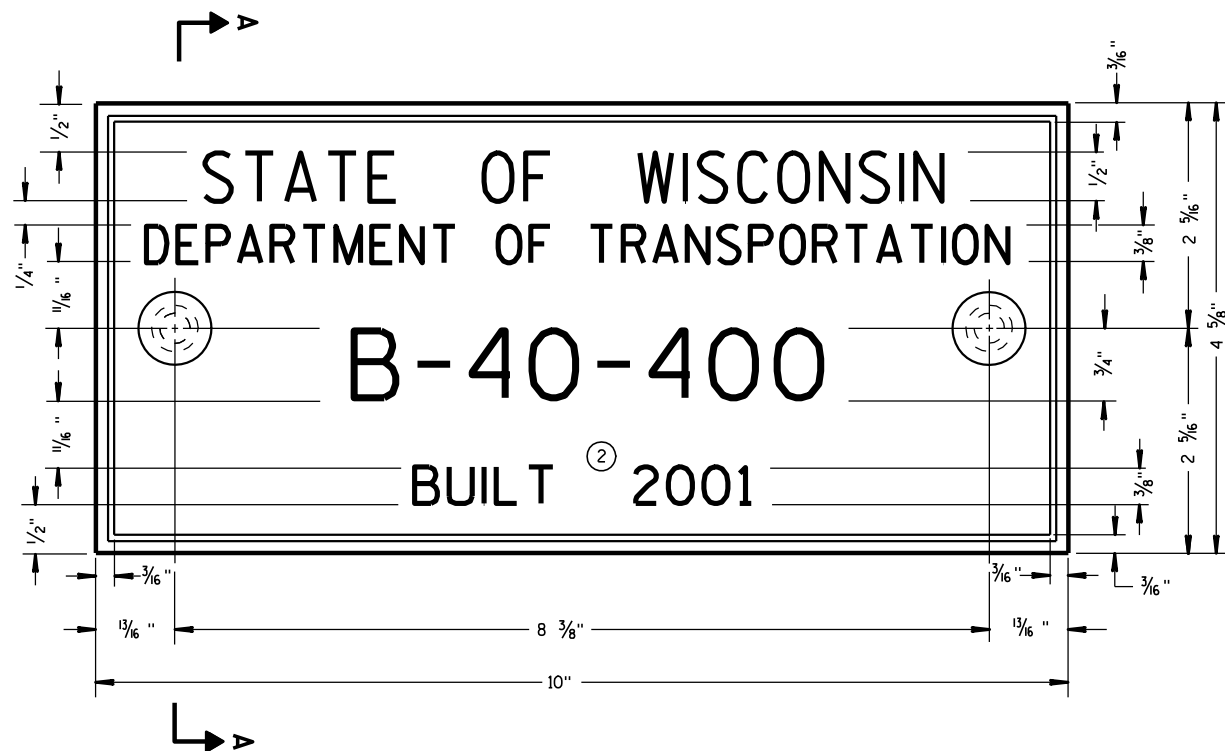
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

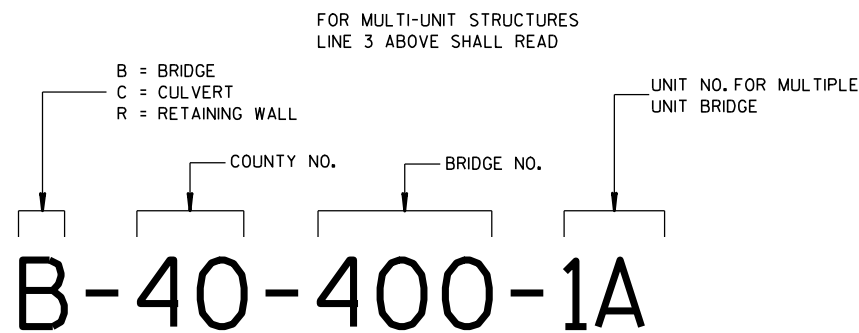
6/04/02  
DATE

FHWA

/S/ Beth Canestra  
CHIEF ROADWAY DEVELOPMENT ENGINEER



TYPICAL NAME PLATE  
(BRIDGES, CULVERTS, AND RETAINING WALLS)



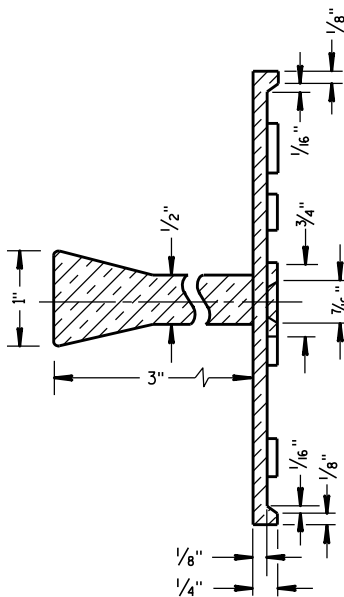
NUMBERING DESIGNATION  
MULTI-UNIT STRUCTURES

GENERAL NOTES

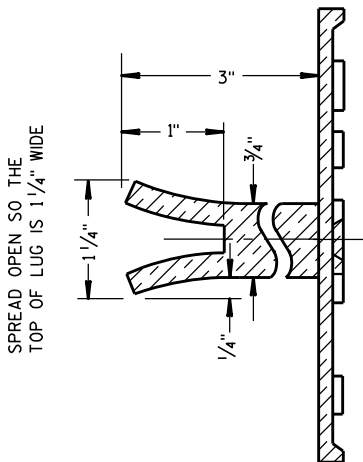
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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.

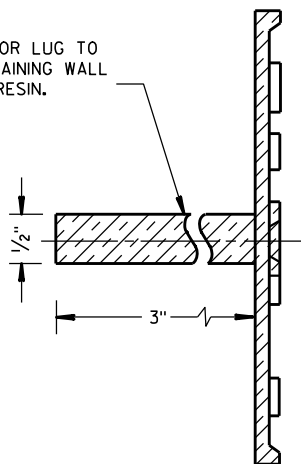


SECTION A-A



ALTERNATE LUG

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.

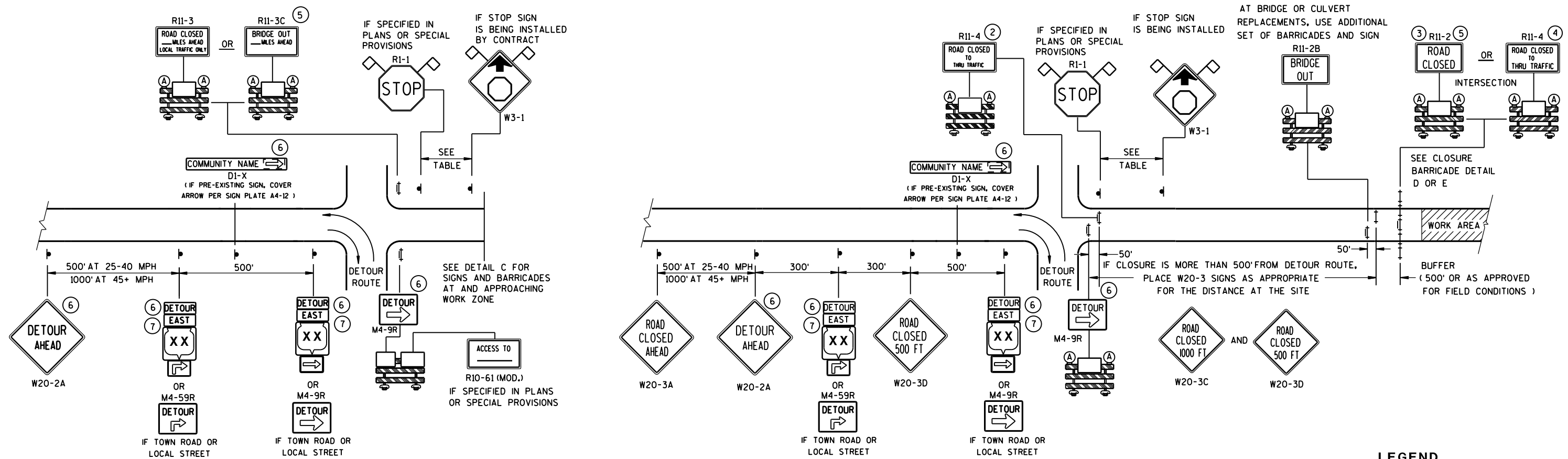


ALTERNATE LUG  
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE  
(STRUCTURES)

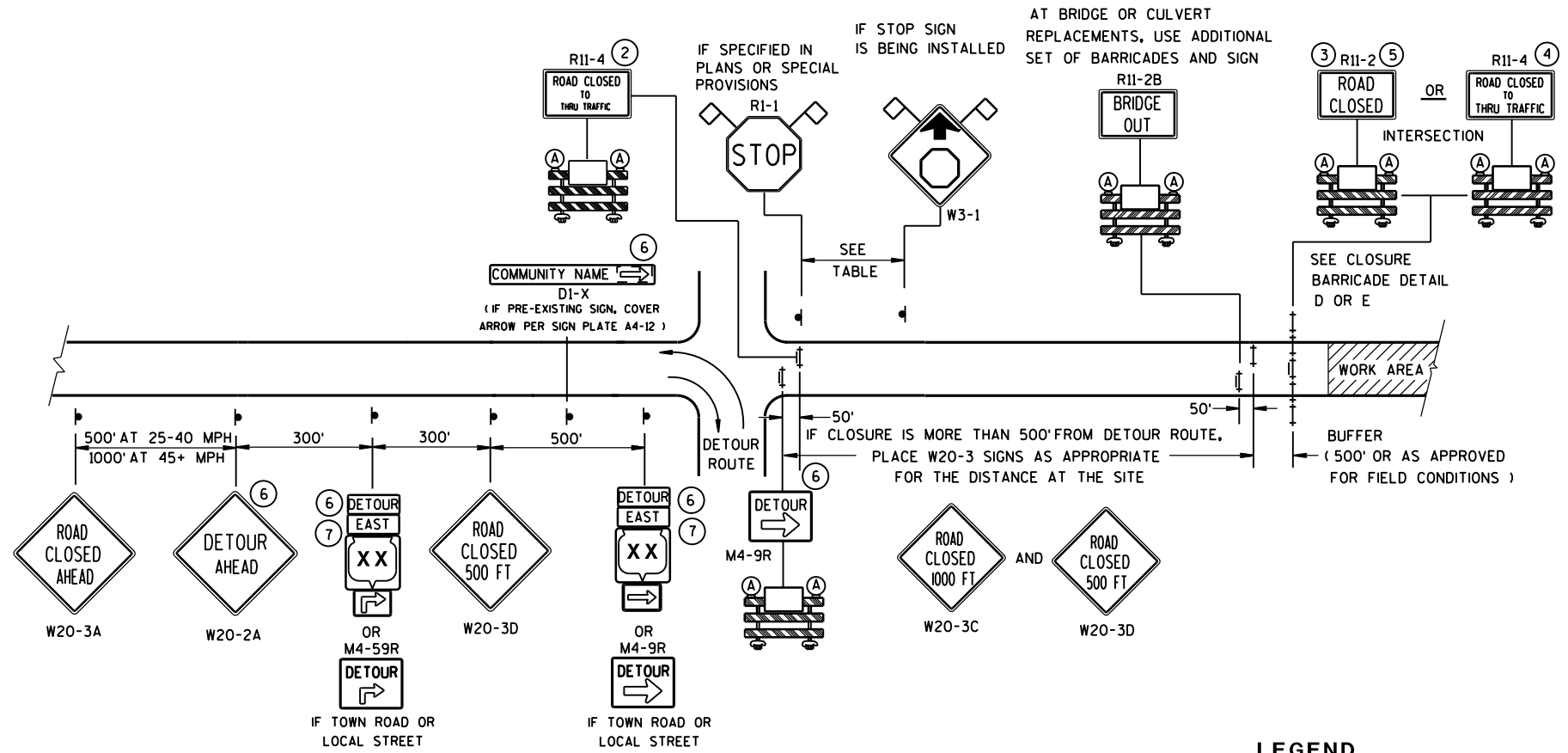
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
3/26/10  
DATE  
/S/ Scot Becker  
CHIEF STRUCTURAL DEVELOPMENT ENGINEER  
FHWA



DETAIL A  
MAINLINE CLOSURE WITH POSTED DETOUR

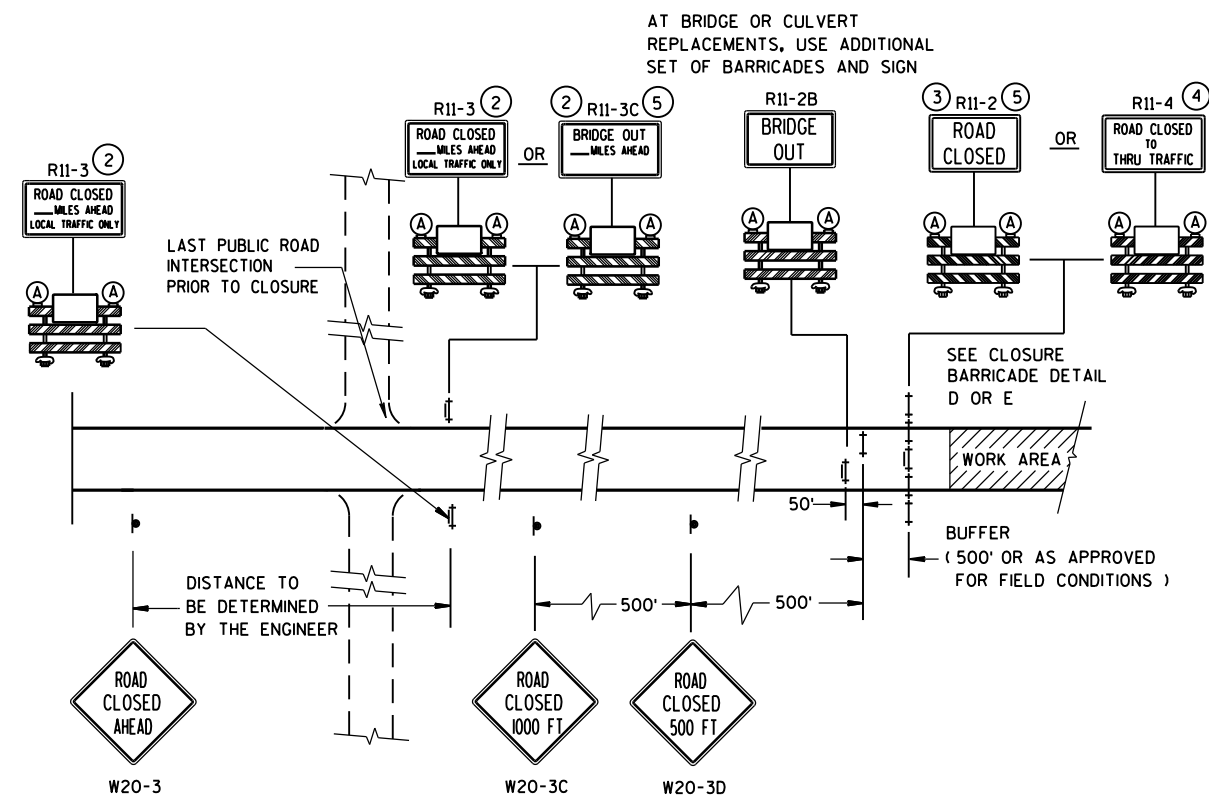
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE ( 1000 FEET IF URBAN )



DETAIL B













**MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE LESS THAN 1/2 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

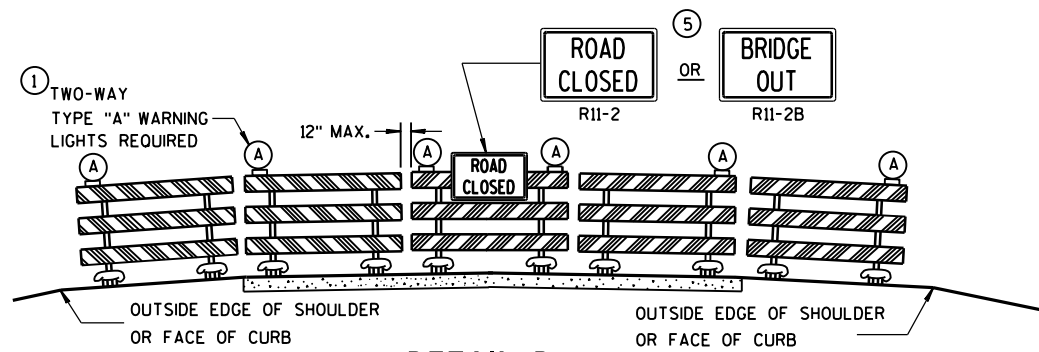
- # LEGEND
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA
-  M4-8  
M3-X
-  OR  OR   
M1-4 M1-5A M1-6
-  OR   
MO5-1 MO6-1
-  FLAGS, 16" X 16" MIN., (ORANGE)

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

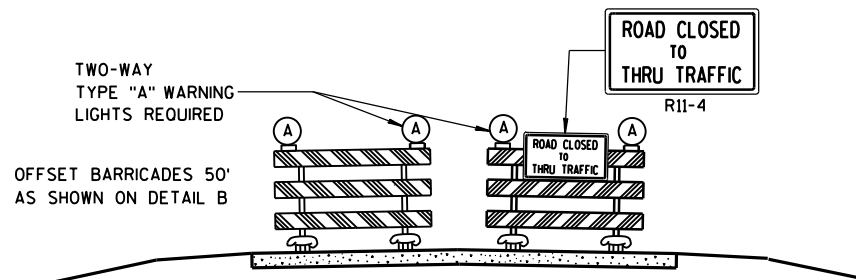
## BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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



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.

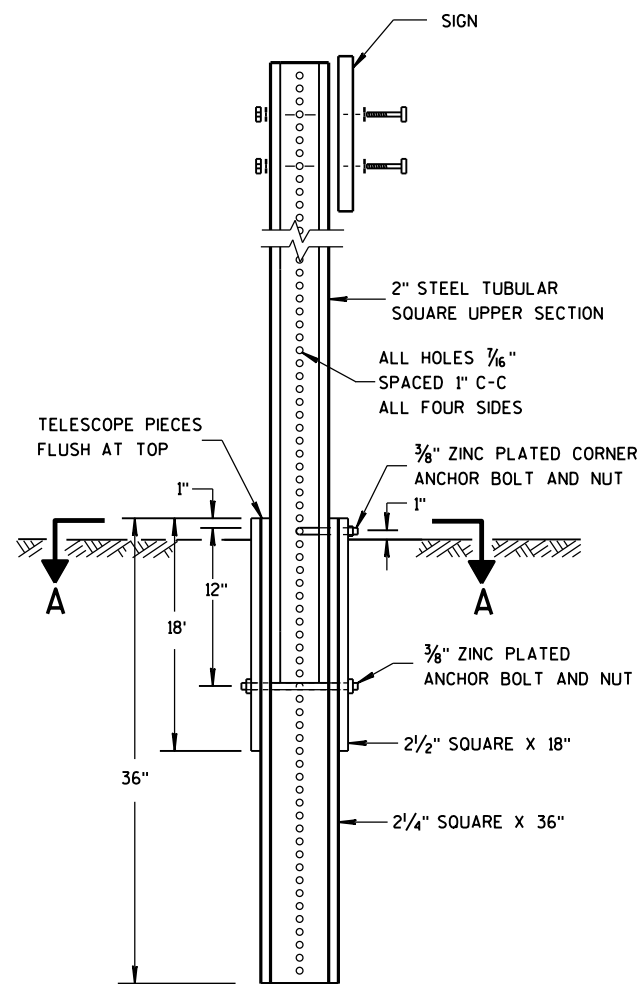
R1-1 SHALL BE 36" X 36".

- 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 /S/ Peter Amokobe Atepe  
DATE STATEWIDE WORK ZONE TRAFFIC  
FHWA SAFETY ENGINEER



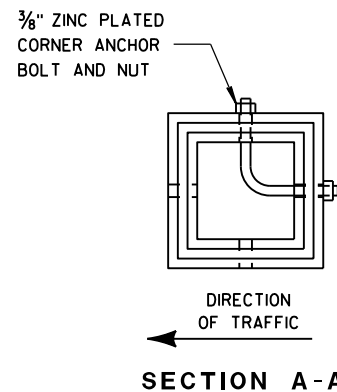
DETAIL OF TUBULAR  
STEEL SIGN POST

TUBULAR STEEL POSTS

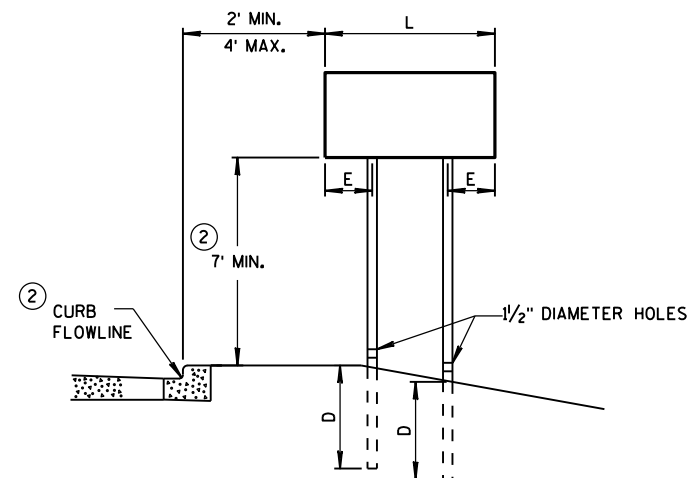
AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

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.



SECTION A-A

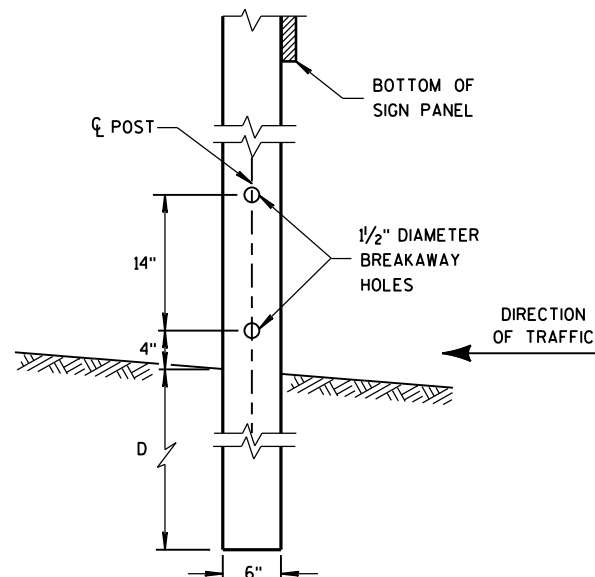


URBAN AREA

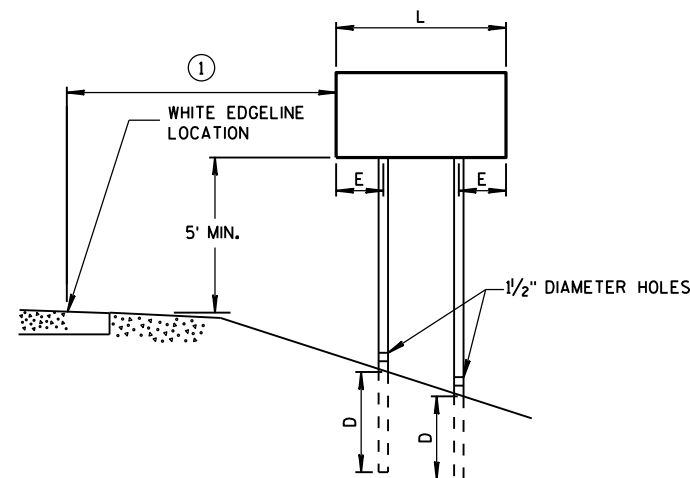
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST  
EMBEDMENT DEPTH

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



4 "x6 " WOOD POST  
MODIFICATION



RURAL AREA

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

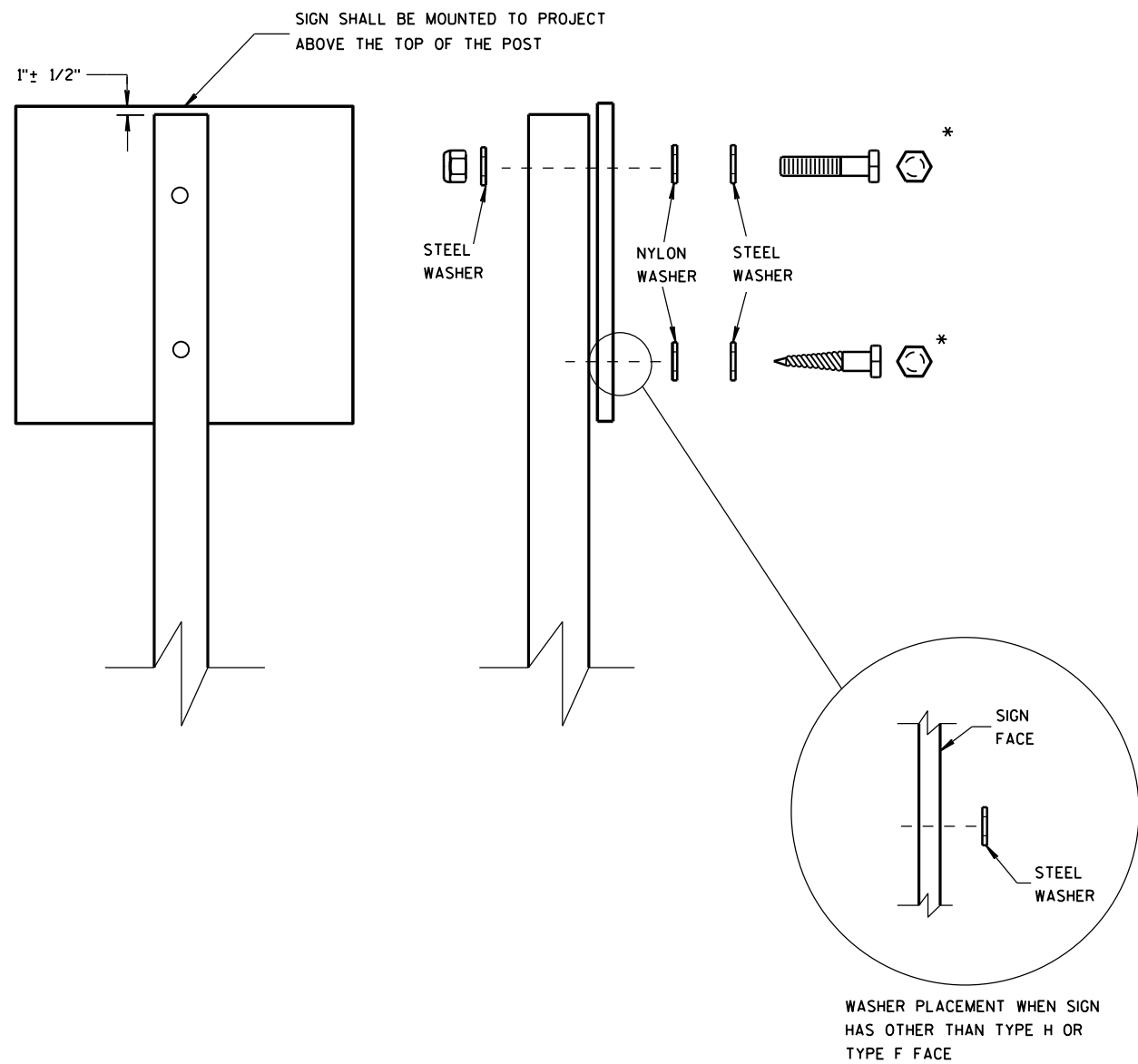
SEE NOTE ③

## 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.

TEMPORARY TRAFFIC CONTROL  
SIGN MOUNTING

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



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

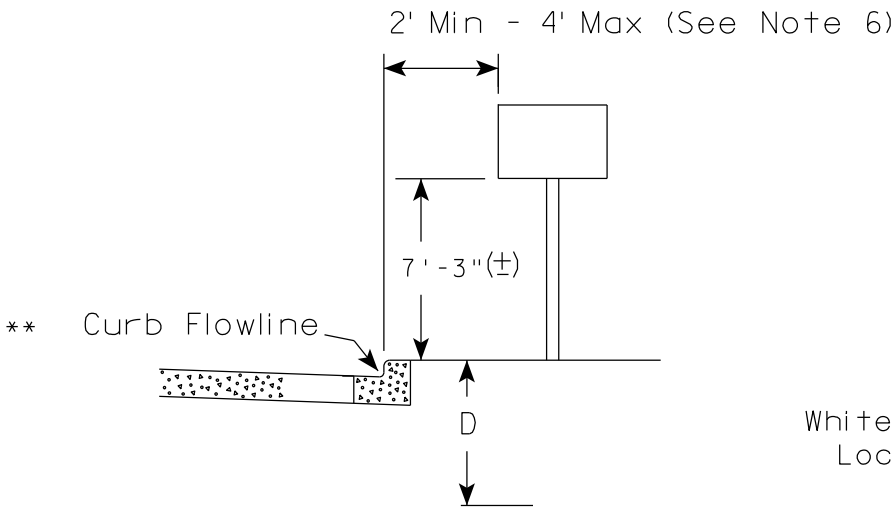
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
  - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

- 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

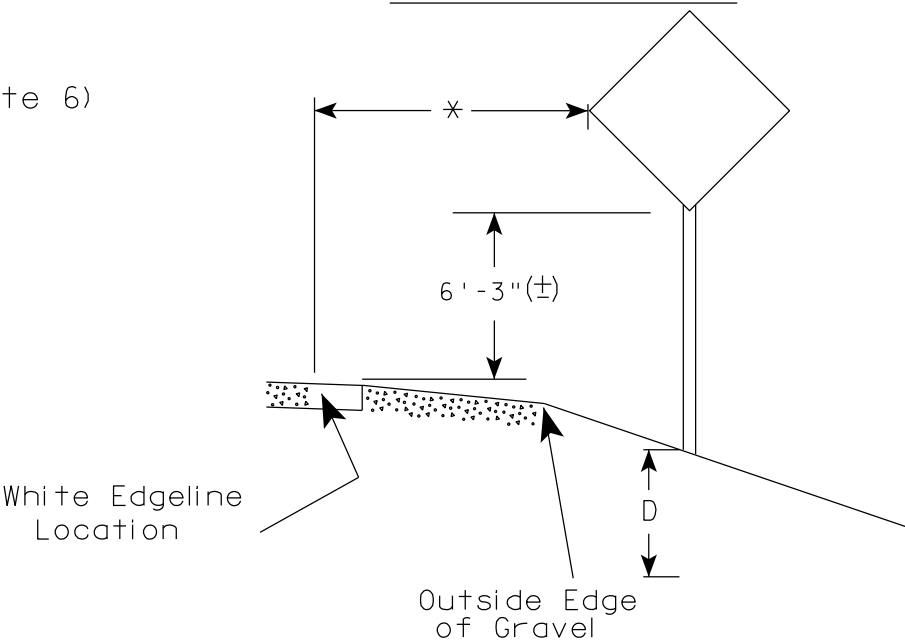
\* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

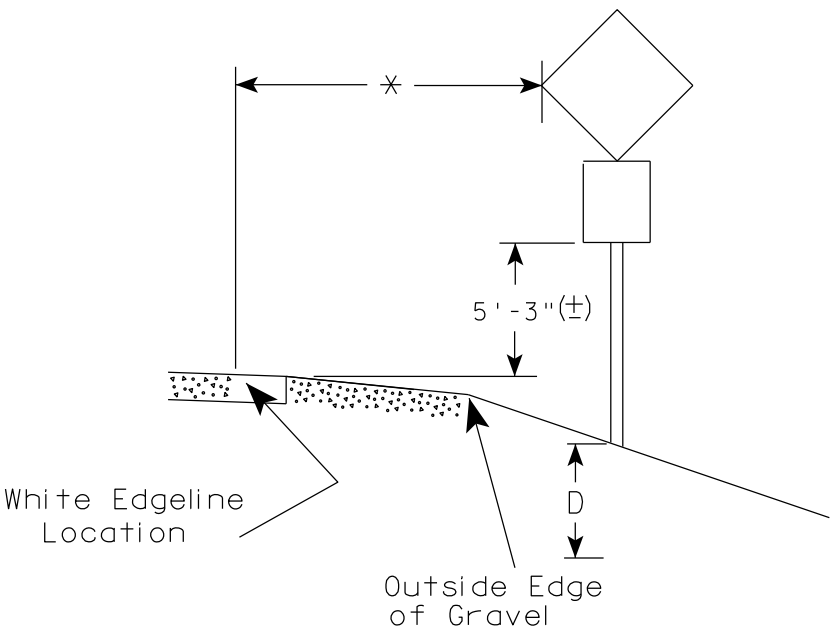
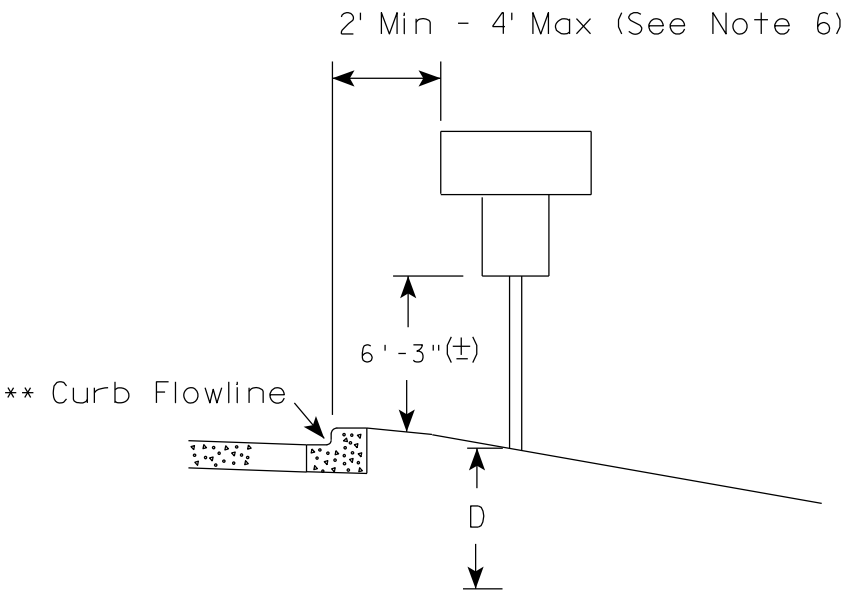
URBAN AREA



RURAL AREA (See Note 2)



- GENERAL NOTES
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
  2. If signs are mounted on barrier wall, see A4-10 sign plate.
  3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
  4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
  5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
  6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
  7. The (±) tolerance for mounting height is 3 inches.
  8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
  9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).



POST EMBEDMENT DEPTH

Area of Sign Installation ( Sq. Ft. )	D ( Min )
20 or Less	4'
Greater than 20	5'

×× The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

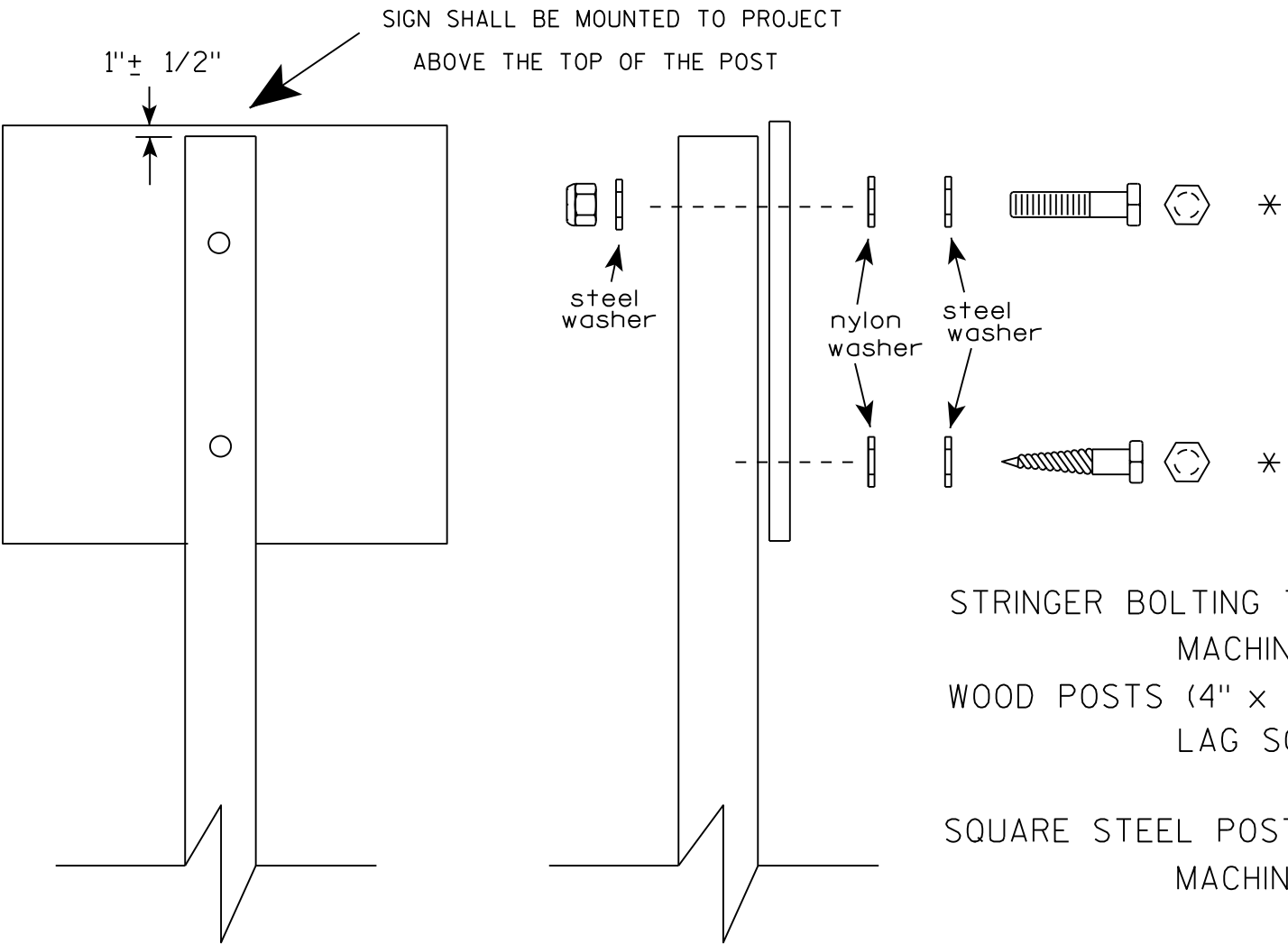
TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
  - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
  - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
  - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

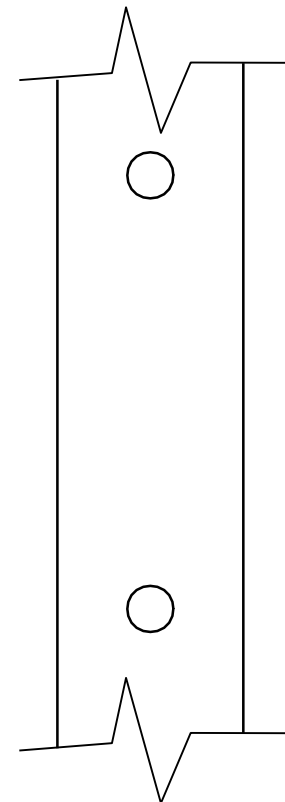
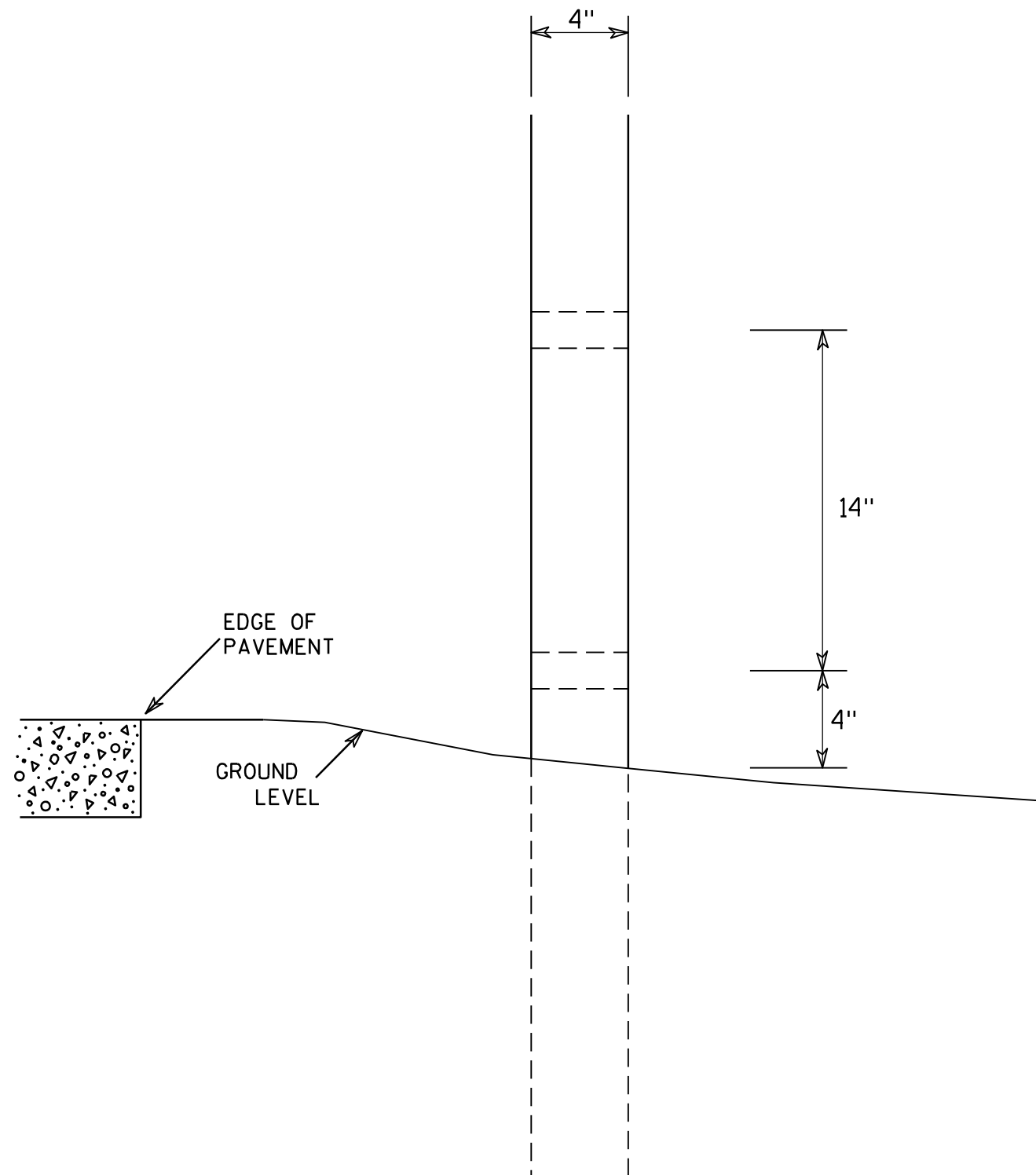
\* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS  
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8



SIDE VIEW

# GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1 1/2" diameter holes drilled perpendicular to the roadway centerline.

## 4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

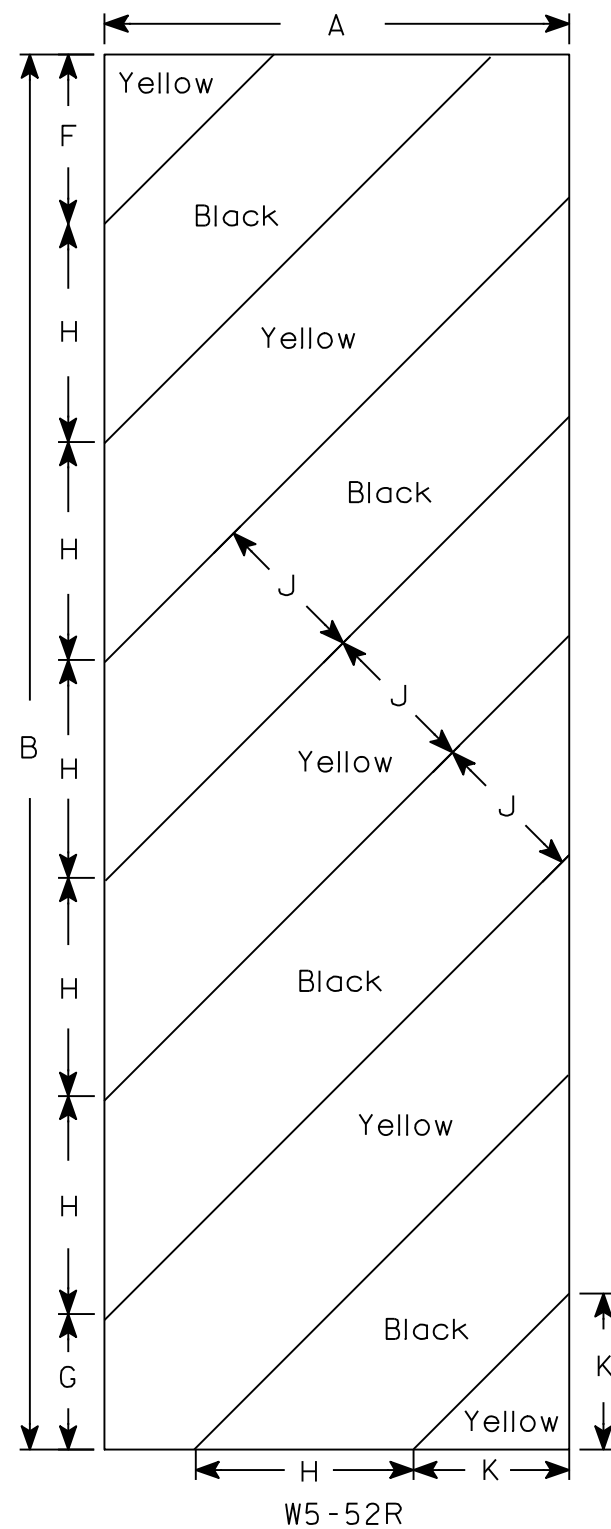
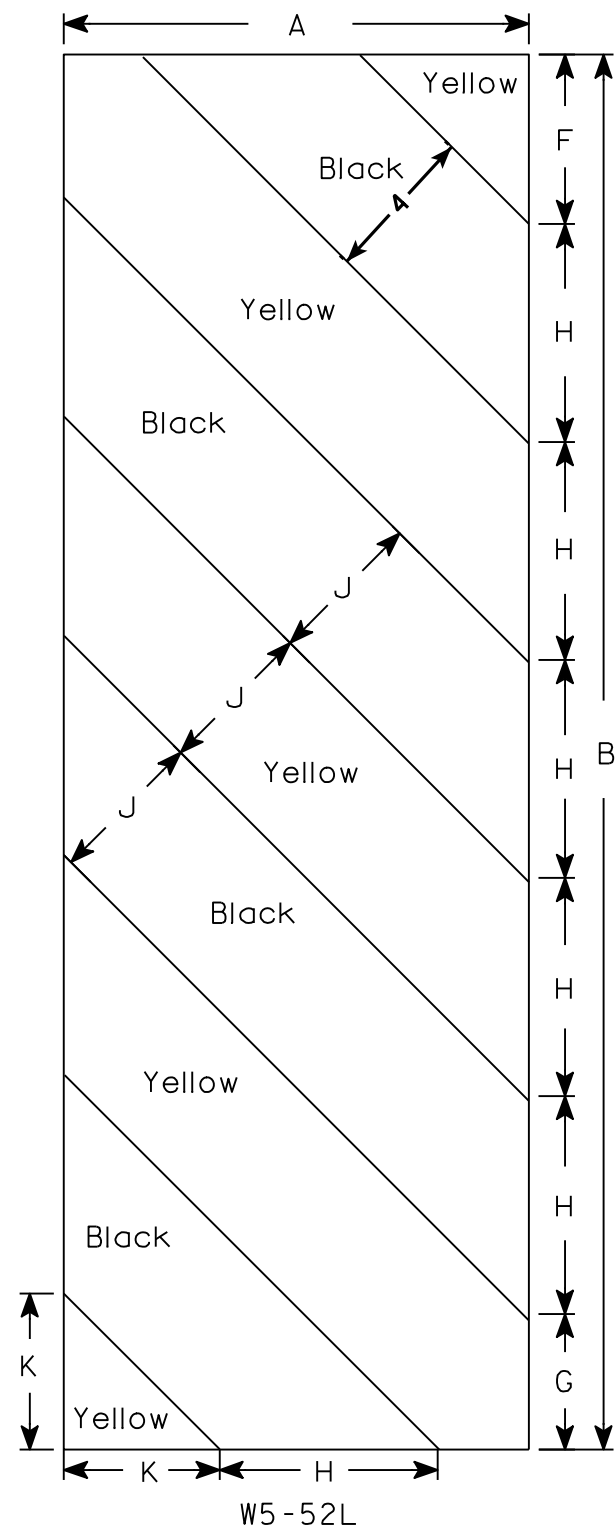
PROJECT NO: 7277-00-70

HWY:LYGA VALLEY ROAD

COUNTY: TREMPLEALEAU

SHEET NO:

E



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:  
Background - Yellow  
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
2M	12	36				4 3⁄8	3 1⁄2	5 5⁄8	45°	4	4																3.0
3	18	54				6	5 1⁄2	8 1⁄2	45°	6	6 5⁄6																6.75
4																											
5																											

STANDARD SIGN  
W5-52L & W5-52R

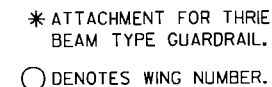
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

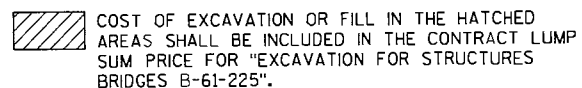
DATE 5/29/12 PLATE NO. W5-52.9



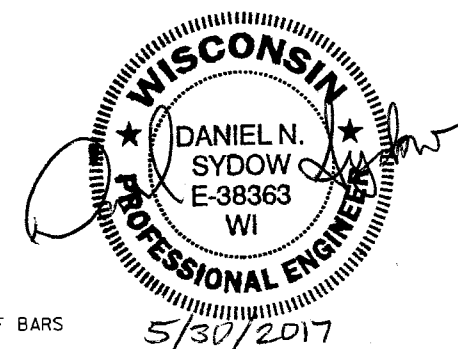
NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY <b>AYRES ASSOCIATES</b>			
3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED	<i>William C. Diehn</i> <sup>SDR</sup> CHIEF STRUCTURES DESIGN ENGINEER		02/06/18 DATE
STRUCTURE B-61-225			
LYGA VALLEY RD. OVER TRAVERSE VALLEY CR.			
COUNTY	TREMPEALEAU	TOWN/CITY/VILLAGE	BURNSIDE
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	CJM	DESIGN CK'D.	CHK'D.
		CKJ	DRAWN BY CJM/CLS
GENERAL PLAN			SHEET 1 OF 12



SINGLE SPAN CONCRETE FLAT SLAB



1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT WING 1 DETAILS
6. SOUTH ABUTMENT WING 2 DETAILS & BILL OF BARS
7. NORTH ABUTMENT
8. NORTH ABUTMENT WING 3 DETAILS
9. NORTH ABUTMENT WING 4 DETAILS & BILL OF BARS
10. SUPERSTRUCTURE
11. SUPERSTRUCTURE DETAILS
12. RAILING TUBULAR TYPE M



CONSULTANT CONTACT:  
DAN SYDOW  
(715)-834-3161

\$PRFNAME\$  
UJ+42-0998.00 - Trampedieu Co, Tr Burnside, Lyga Valley Road+BRIDGE+420998 gp.dgn

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BACK CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CORRECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

8

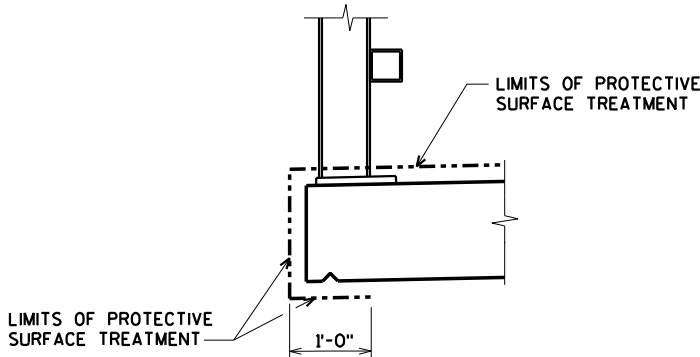
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STATE PROJECT NUMBER

7277-00-70

TOTAL ESTIMATED QUANTITIES

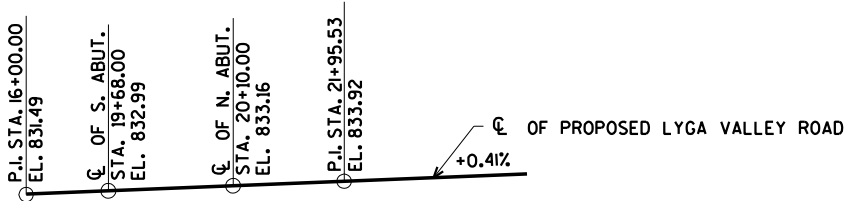
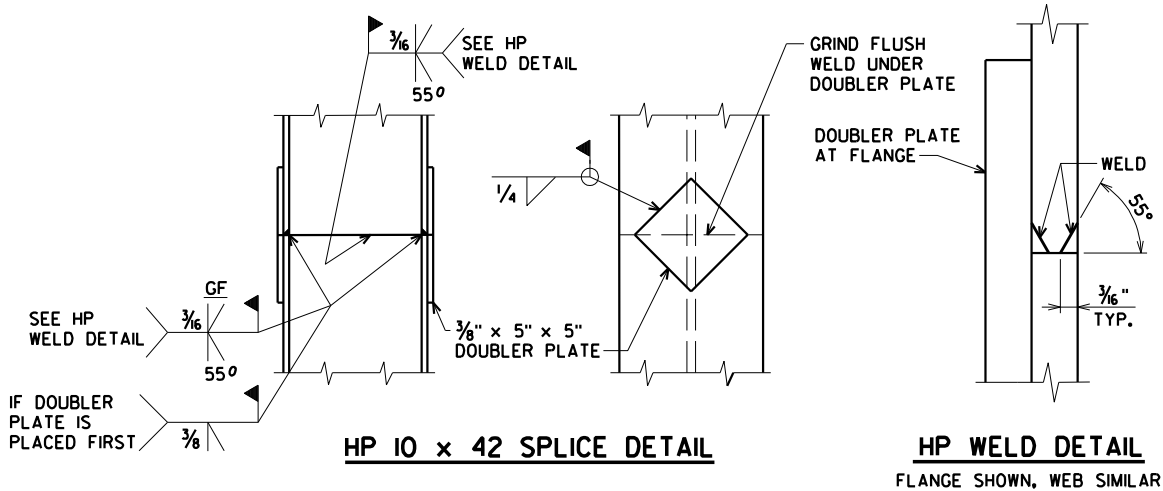
BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 19+80	LS	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-61-225	LS	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	155	155	-----	310
502.0100	CONCRETE MASONRY BRIDGES	CY	29	29	89	147
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	160	160
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,230	2,230	-----	4,460
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	890	890	15,660	17,440
513.4061	RAILING TUBULAR TYPE M B-61-225	LF	-----	-----	93	93
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9	-----	18
550.0500	PILE POINTS	EACH	5	5	-----	10
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	225	200	-----	425
606.0300	RIPRAP HEAVY	CY	140	135	-----	275
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75	-----	150
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	45	45	-----	90
645.0120	GEOTEXTILE TYPE HR	SY	265	250	-----	515
NON-BID ITEMS						
	FILLER	SIZE	-----	-----	-----	1/2" & 3/4"



PROTECTIVE SURFACE TREATMENT DETAIL

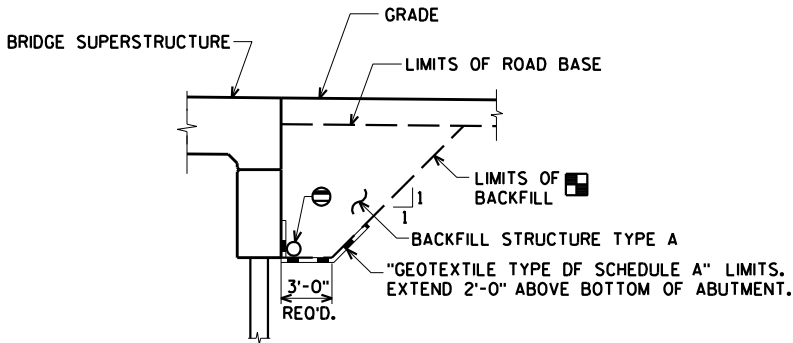
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.  
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.  
THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.  
JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.  
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.  
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS OTHERWISE APPROVED BY THE ENGINEER.  
THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.  
THE EXISTING STRUCTURE, P-61-154, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 28 FT. LONG WITH AN APPROX. 15 FT. CLEAR ROADWAY WIDTH.  
AT BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.  
PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.  
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.



PROFILE GRADE LINE  
(PROPOSED LYGA VALLEY ROAD)

BENCH MARK:  
CHIS. SQ. ON NE WING WALL  
STA. 19+90, 60' RT.  
EL. 834.10



BACKFILL STRUCTURE LIMITS

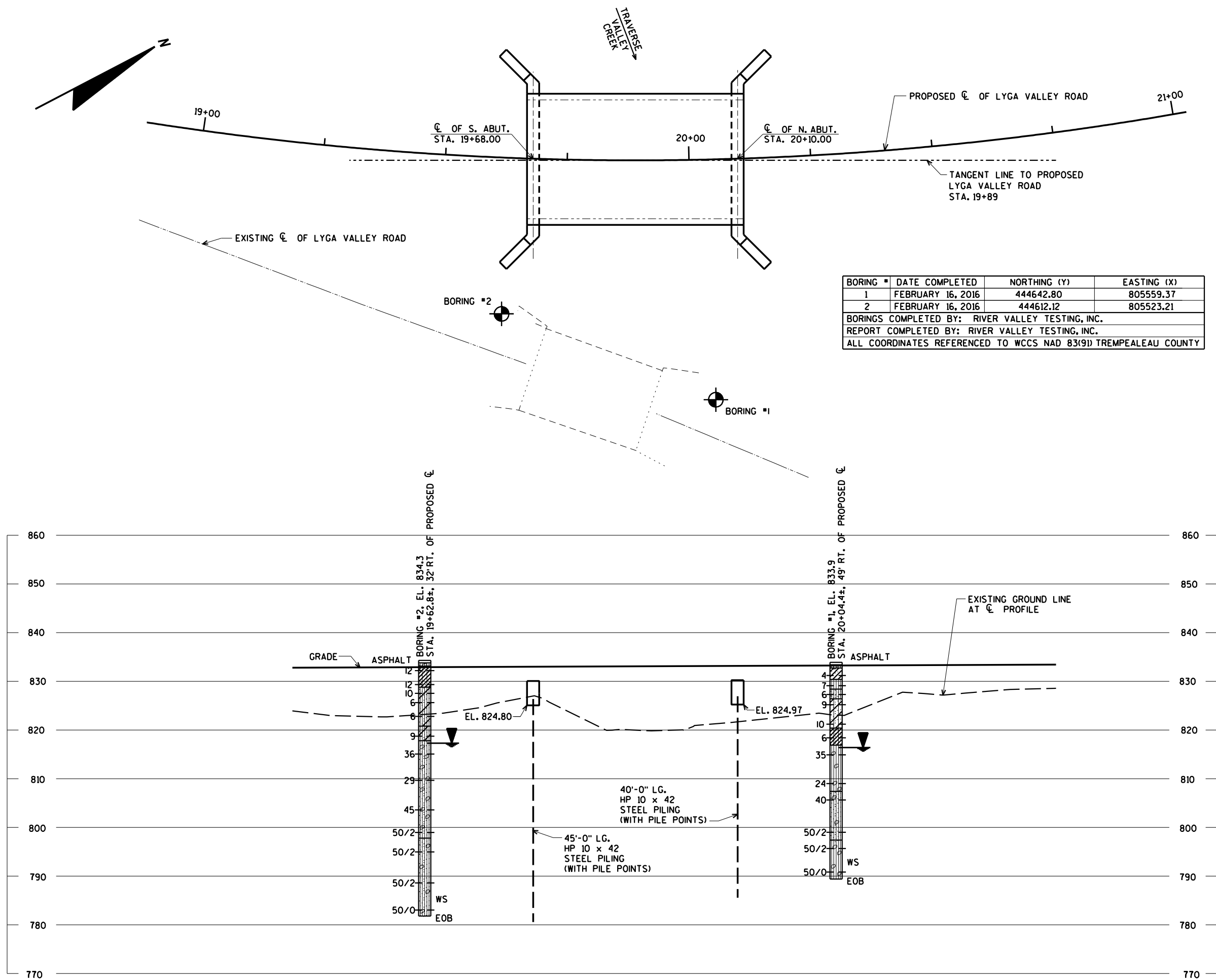
- BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 5.

ORIGINAL PLANS PREPARED BY  
**AYRES ASSOCIATES**  
3433 Oakwood Hills Parkway  
Eau Claire, WI 54701  
www.AyresAssociates.com

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY CJM/CLS		PLANS CK'D. CKJ	
QUANTITIES AND NOTES		SHEET 2 OF 12	

\$PRNAME\$  
U:\42-0998.00 - Trempealeau Co, Tn Burnside, Lyga Valley Road\BRIDGE\420998 soils.dgn

8



BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	FEBRUARY 16, 2016	444642.80	805559.37
2	FEBRUARY 16, 2016	444612.12	805523.21
BORINGS COMPLETED BY: RIVER VALLEY TESTING, INC.			
REPORT COMPLETED BY: RIVER VALLEY TESTING, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) TREMPEALEAU COUNTY			

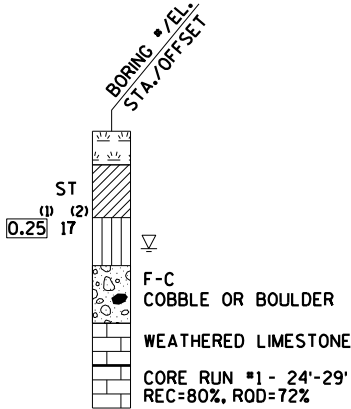
STATE PROJECT NUMBER

7277-00-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

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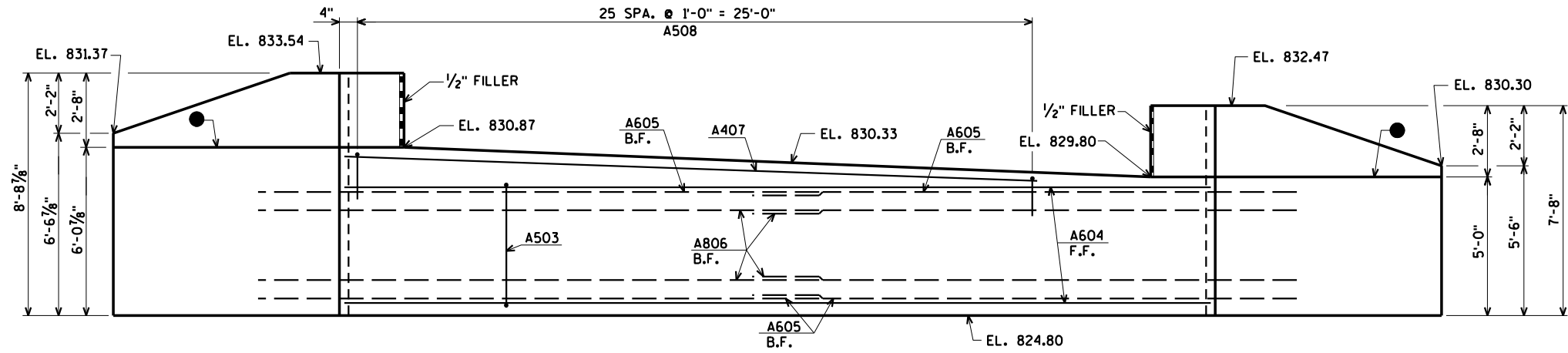
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY CJM		PLANS CK'D. CKJ	
SUBSURFACE EXPLORATION		SHEET 3 OF 12	

\$PRNAME\$  
U:\42-0998.00 - Trempealeau Co. In Burnside, Lyga Valley Road\BRIDGE\420998 sa.dgn

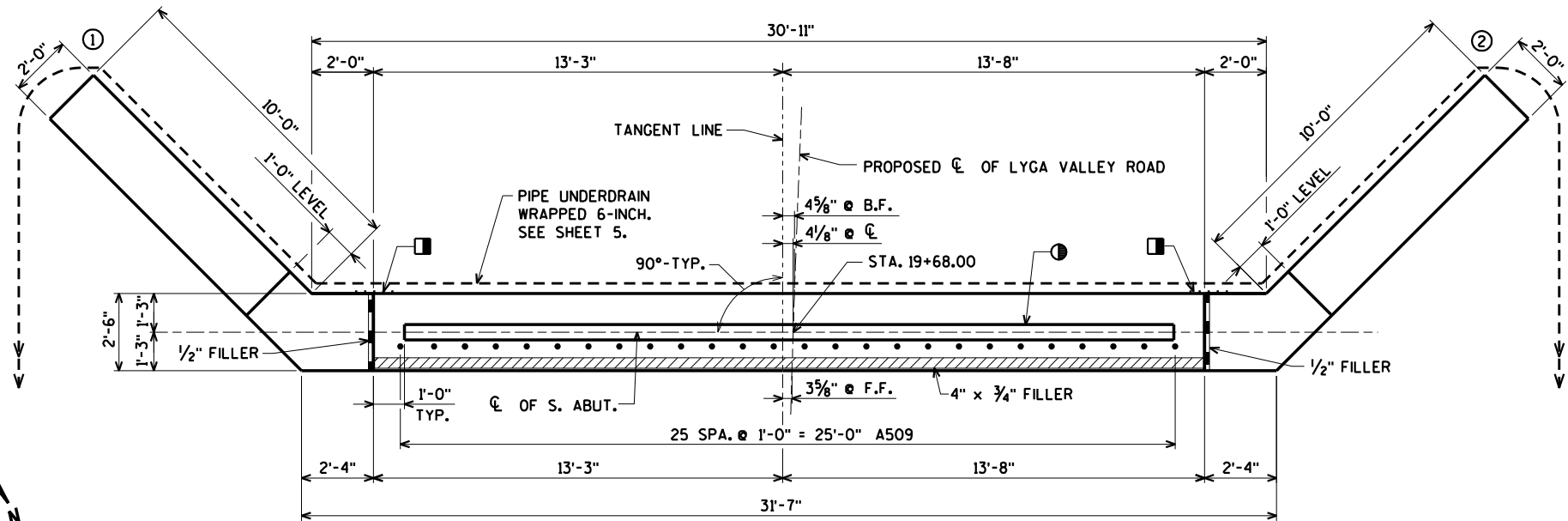
STATE PROJECT NUMBER

7277-00-70

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)



ELEVATION  
(LOOKING SOUTH)



PLAN

- OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
  - ① KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".
  - VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.
- FOR PILE SPICE DETAIL SEE SHEET 2.
- B.F. DENOTES BACK FACE  
F.F. DENOTES FRONT FACE

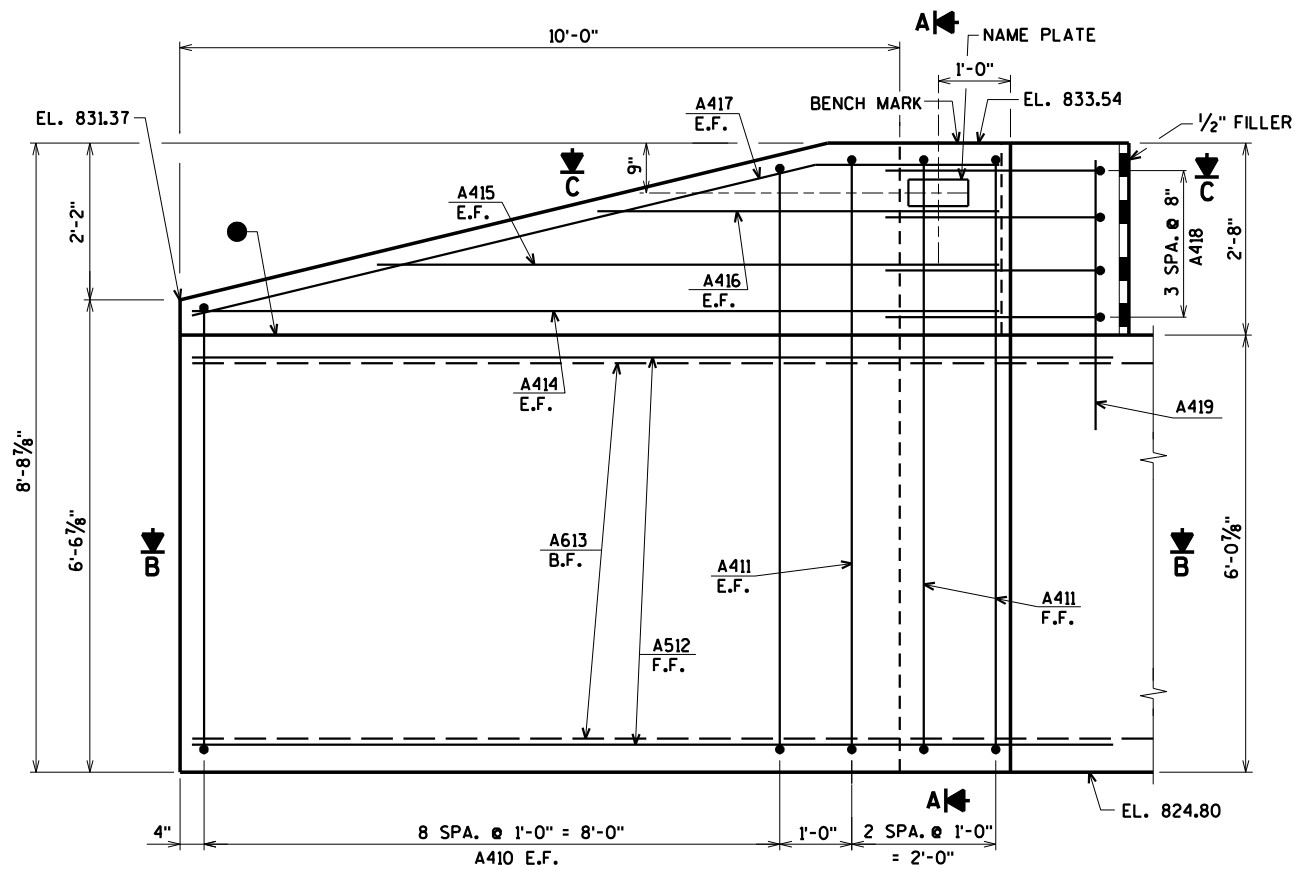
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY		CLS	PLANS CK'D. CKJ
SOUTH ABUTMENT			SHEET 4 OF 12

ORIGINAL PLANS PREPARED BY  
**AYRES ASSOCIATES**  
3433 Oakwood Hills Parkway  
Eau Claire, WI 54701  
www.AyresAssociates.com

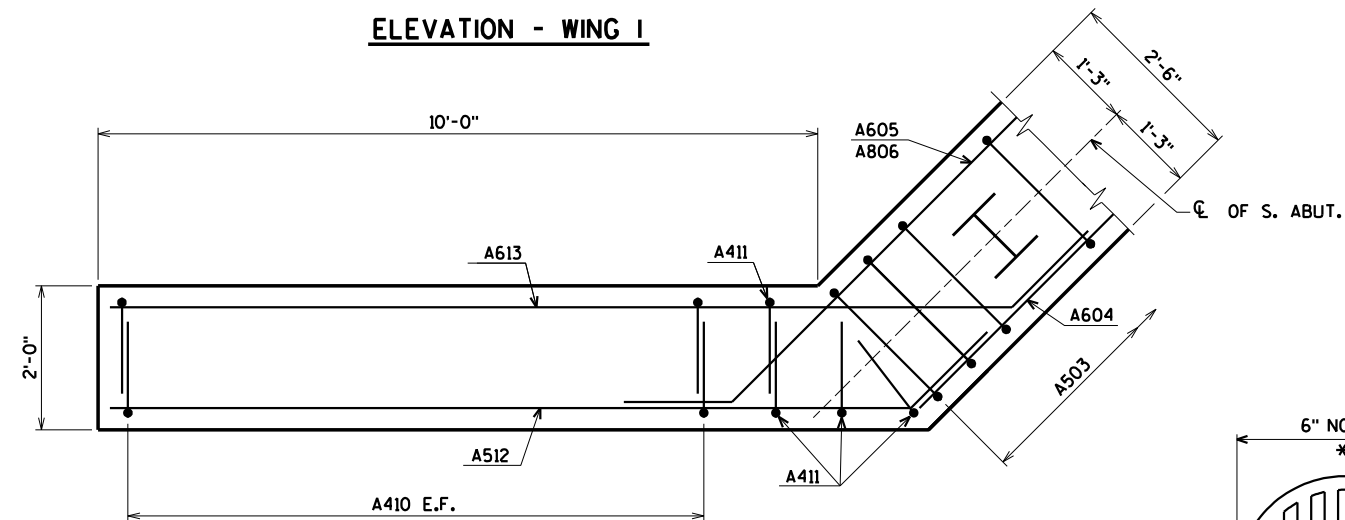


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U:\42-0998.00 - Trempealeau Co, In Burnside, Lyga Valley Road\BRIDGE\420998 sa.dgn

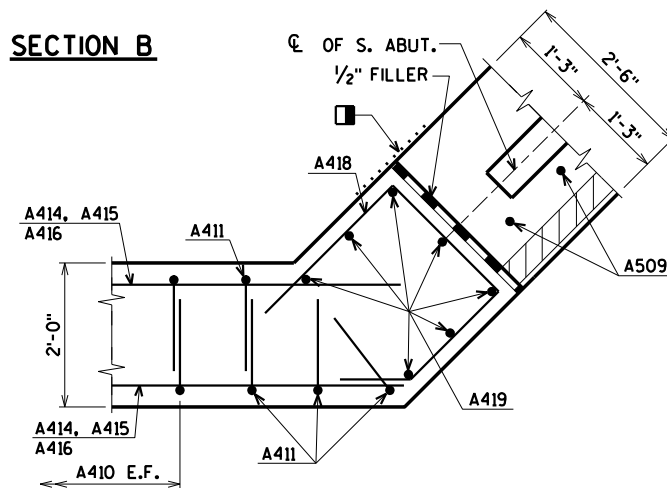
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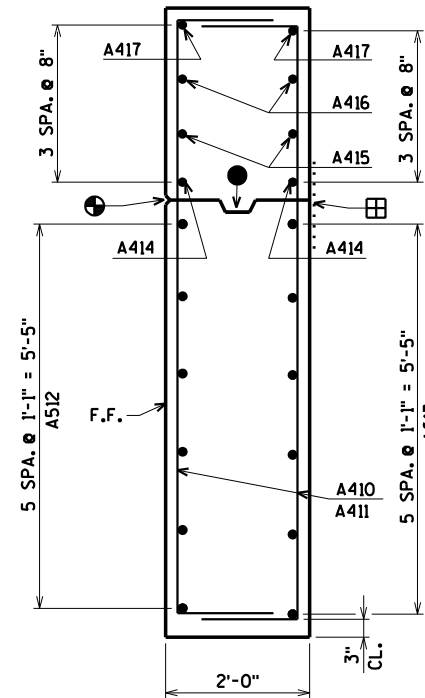
ELEVATION - WING I



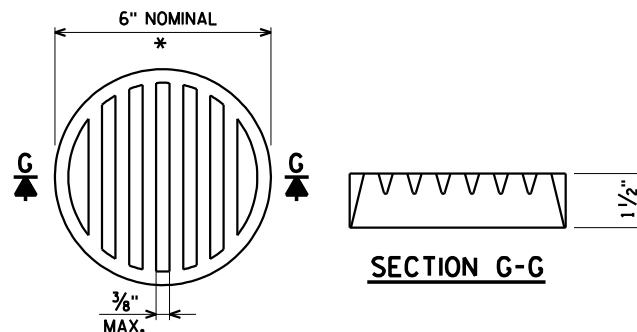
SECTION B



SECTION C



SECTION A

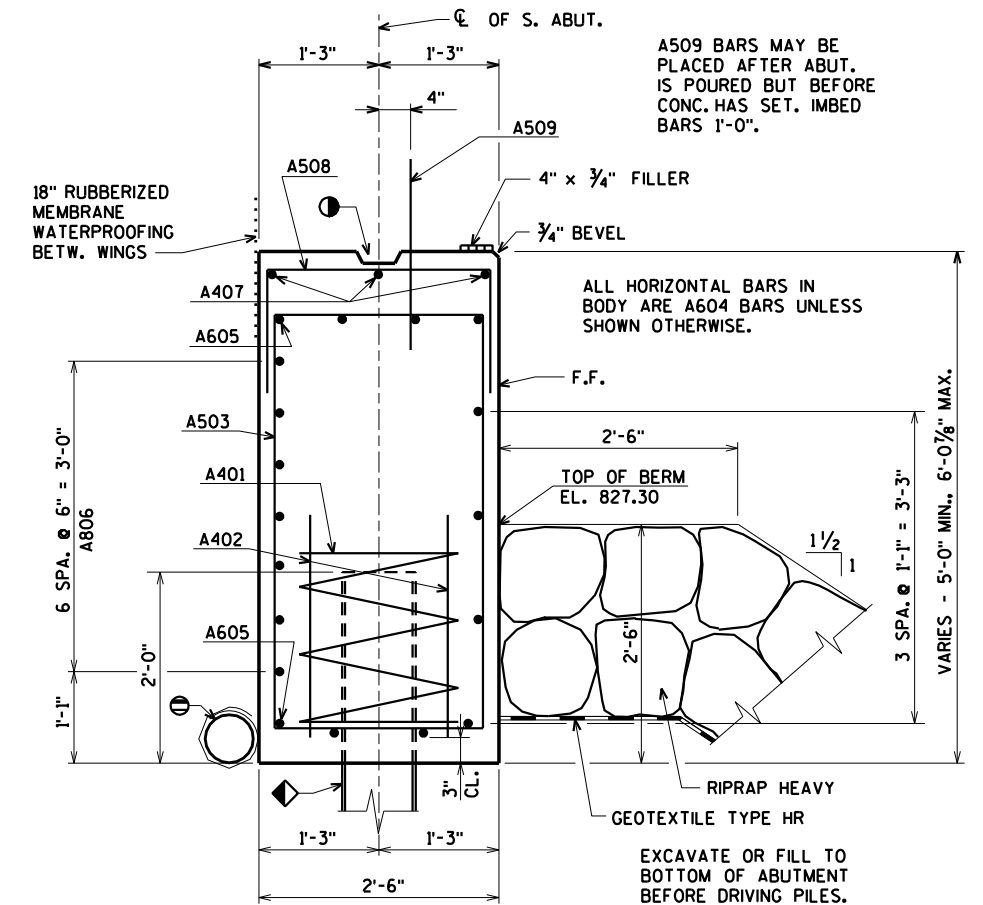


\* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL



TYPICAL SECTION THRU BODY

ABUTMENT TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. ESTIMATED LENGTH 45'-0".

PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

3/4" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

ORIGINAL PLANS PREPARED BY  
**AYRES ASSOCIATES**  
3433 Oakwood Hills Parkway  
Eau Claire, WI 54701  
www.AyresAssociates.com

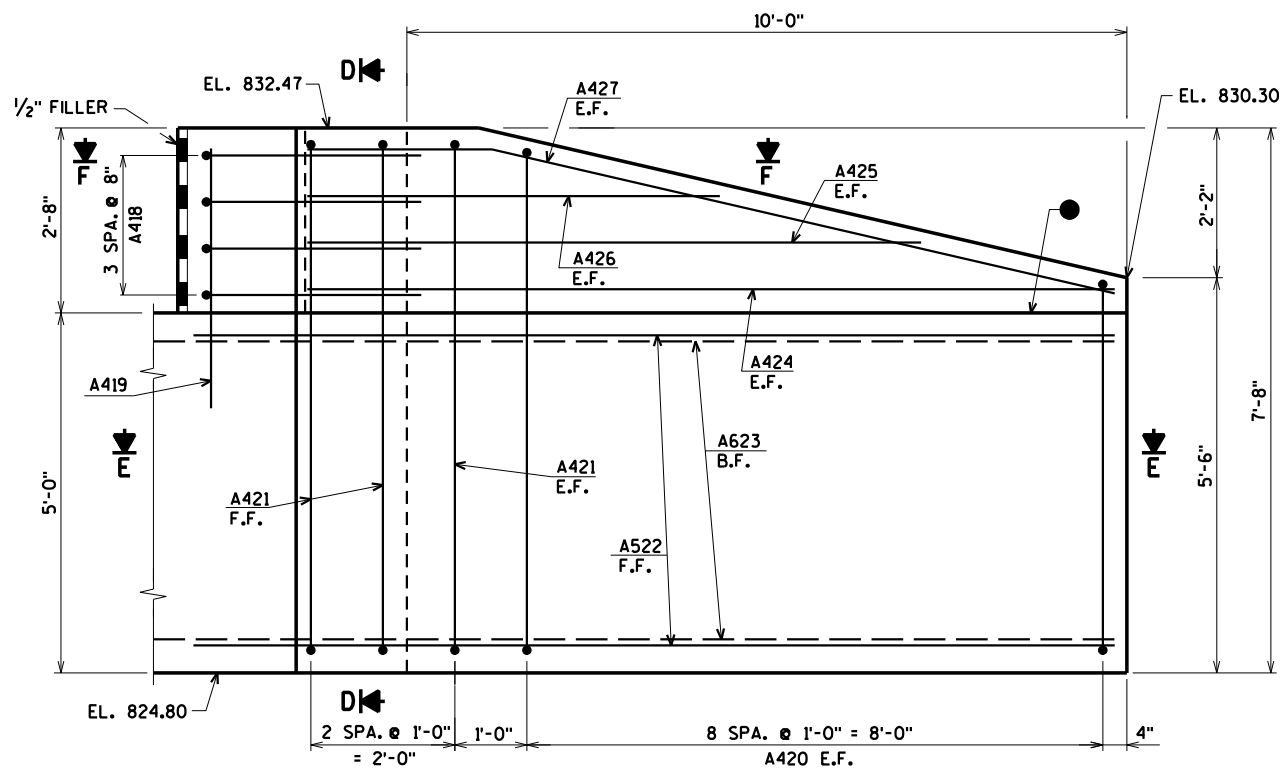
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY		CLS	PLANS CK'D. CKJ
SOUTH ABUTMENT WING 1 DETAILS		SHEET 5 OF 12	

8

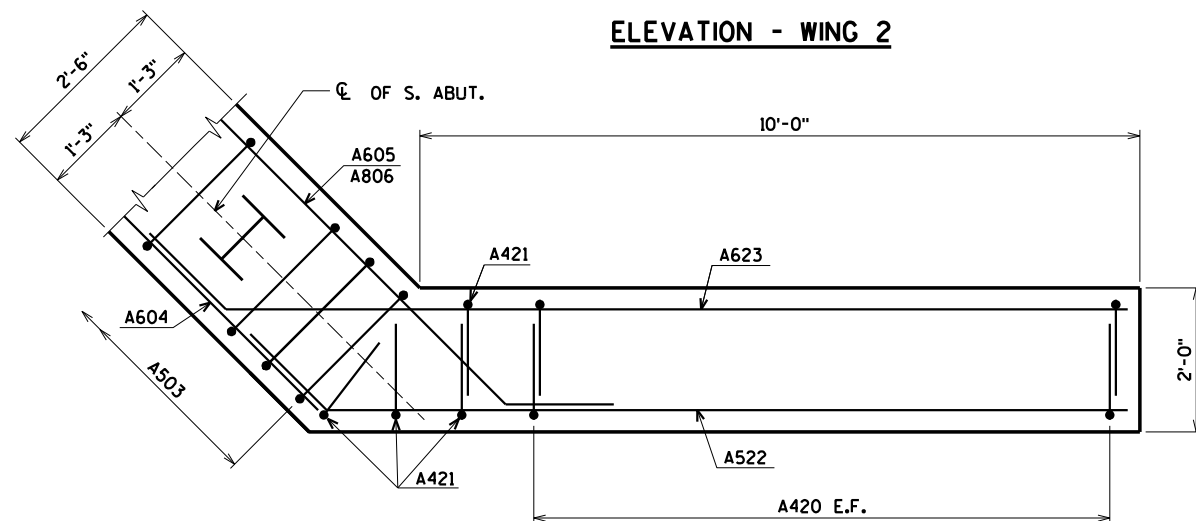
\$PRNAME\$  
U:\42-0998.00 - Trempealeau Co. In Burnside, Lyga Valley Road\BRIDGE\420998.sadgn

STATE PROJECT NUMBER

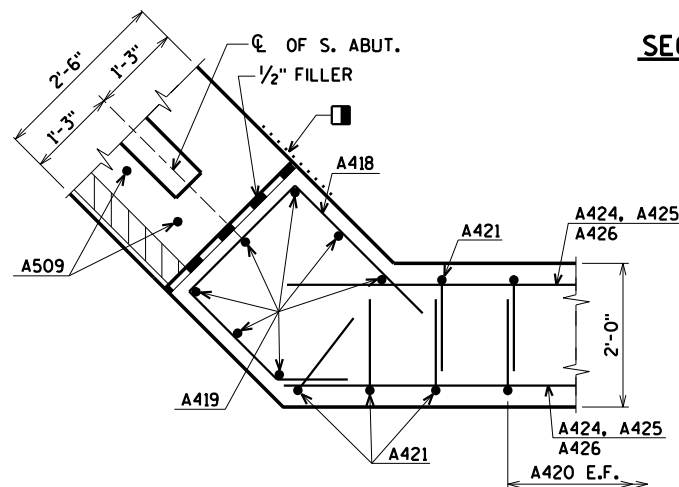
7277-00-70



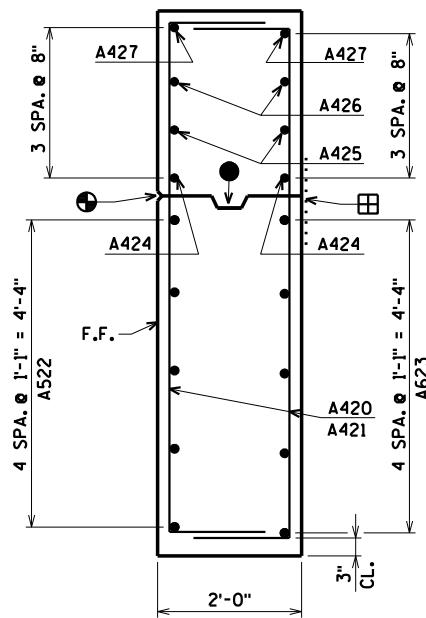
ELEVATION - WING 2



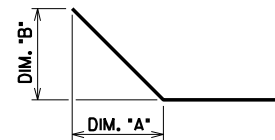
SECTION E



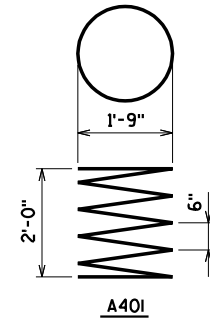
SECTION F



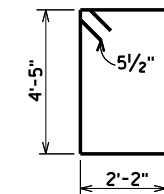
SECTION D



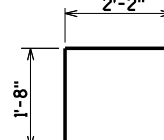
BAR NO.	DIM. "A"	DIM. "B"
A605	1'-0 3/4"	1'-0 3/4"
A806	1'-0 3/4"	1'-0 3/4"
A512	1'-0 3/4"	1'-0 3/4"
A613	1'-0 3/4"	1'-0 3/4"
A417	8'-9"	2'-1"
A522	1'-0 3/4"	1'-0 3/4"
A623	1'-0 3/4"	1'-0 3/4"
A427	8'-9"	2'-1"



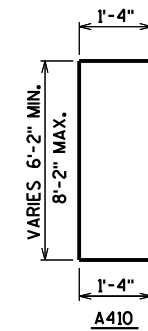
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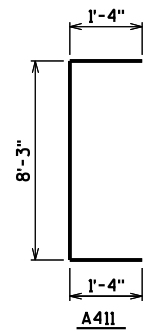
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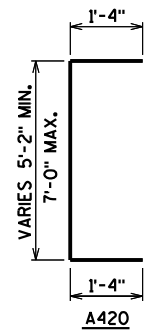
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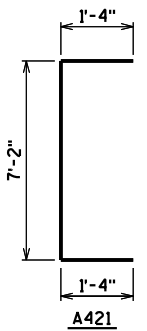
A410



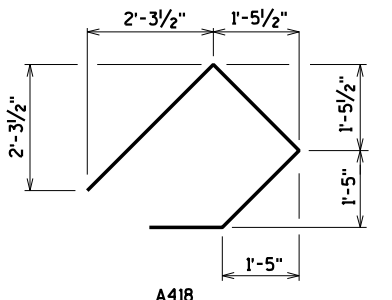
A411



A420



A421



A418

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLE	BAR SERIES	2,230# UNCOATED 890# COATED
							LOCATION
A401		5	28-0	X			BODY @ PILES
A402		10	2-3				BODY @ PILES
A503		39	13-10	X			BODY VERT.
A604		9	31-5				BODY HORIZ. F.F.
A605		4	20-8	X			BODY HORIZ. B.F.
A806		14	21-10	X			BODY HORIZ. B.F.
A407		3	25-6				BODY HORIZ.
A508		26	5-3	X			BODY VERT.
A509	X	26	2-0				BODY DOWELS
A410	X	18	9-8	X			WING 1 VERT. E.F.
A411	X	4	10-9	X			WING 1 VERT. E.F.
A512	X	6	12-8	X			WING 1 HORIZ. F.F.
A613	X	6	14-3	X			WING 1 HORIZ. B.F.
A414	X	2	11-3				WING 1 HORIZ. E.F.
A415	X	2	8-8				WING 1 HORIZ. E.F.
A416	X	2	5-7				WING 1 HORIZ. E.F.
A417	X	2	11-4	X			WING 1 DIAG. E.F.
A418	X	8	8-5	X			WINGS 1 & 2 HORIZ.
A419	X	14	4-6				WINGS 1 & 2 VERT.
A420	X	18	8-7	X			WING 2 VERT. E.F.
A421	X	4	9-8	X			WING 2 VERT. E.F.
A522	X	5	12-8	X			WING 2 HORIZ. F.F.
A623	X	5	14-3	X			WING 2 HORIZ. B.F.
A424	X	2	11-3				WING 2 HORIZ. E.F.
A425	X	2	8-8				WING 2 HORIZ. E.F.
A426	X	2	5-7				WING 2 HORIZ. E.F.
A427	X	2	11-4	X			WING 2 DIAG. E.F.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

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

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

⊕ 3/4" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

⊞ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
A410	2 SERIES OF 9	8'-8" TO 10'-8"
A420	2 SERIES OF 9	7'-8" TO 9'-6"

BUNDLE AND TAG EACH SERIES SEPARATELY.

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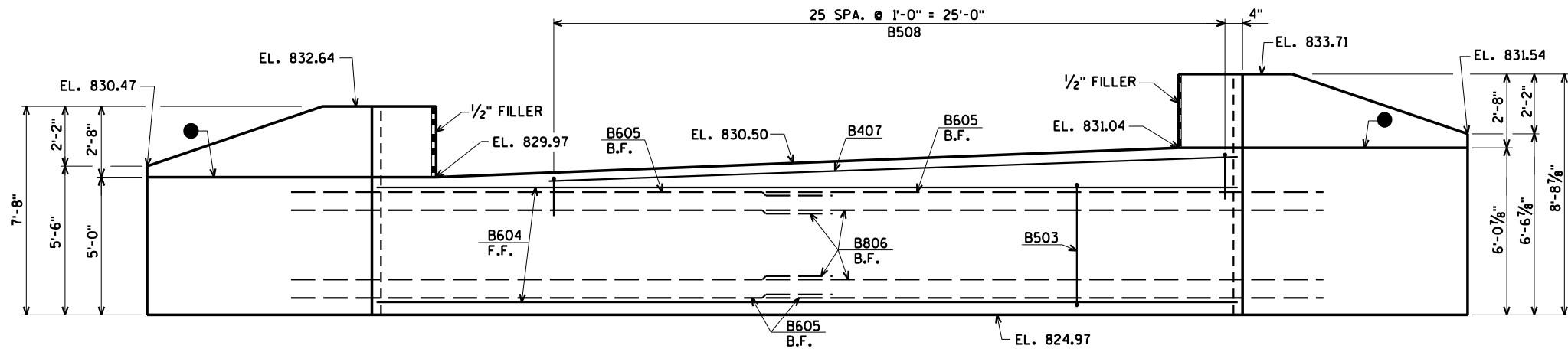
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY		CLS	PLANS CK'D. CKJ
SOUTH ABUTMENT WING 2 DETAILS & BILL OF BARS			SHEET 6 OF 12

\$PRNAME\$  
U:\42-0998,00 - Trempealeau Co. In Burnside, Lyga Valley Road\BRIDGE\420998 na.dgn

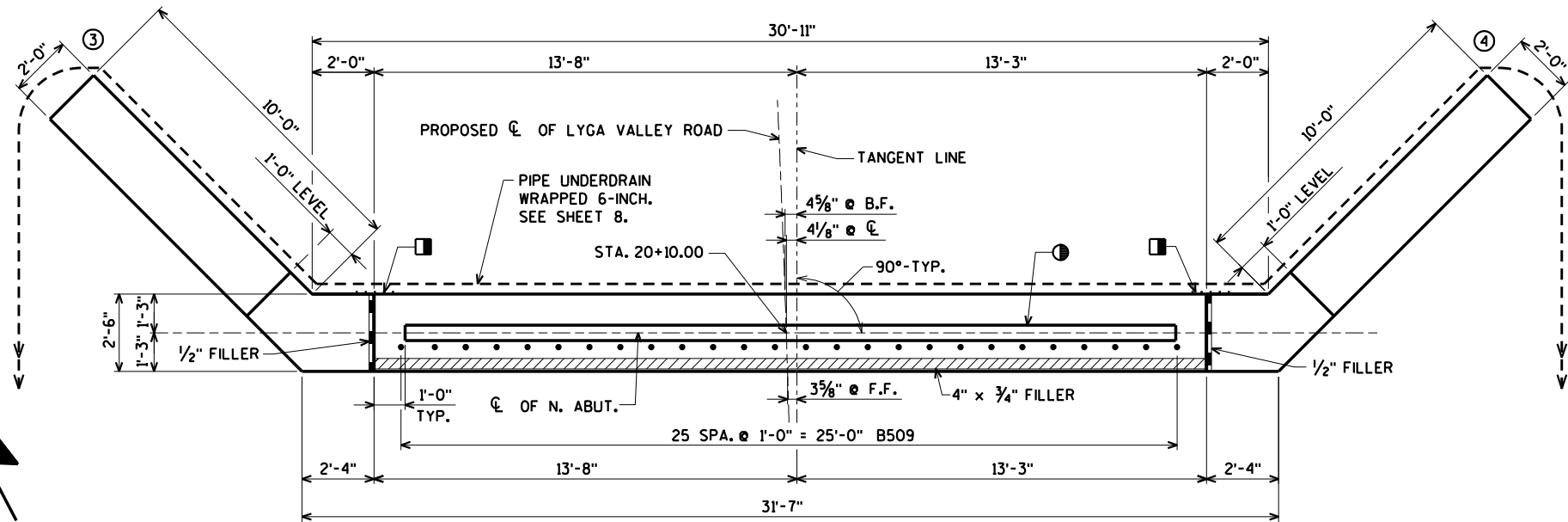
STATE PROJECT NUMBER

7277-00-70

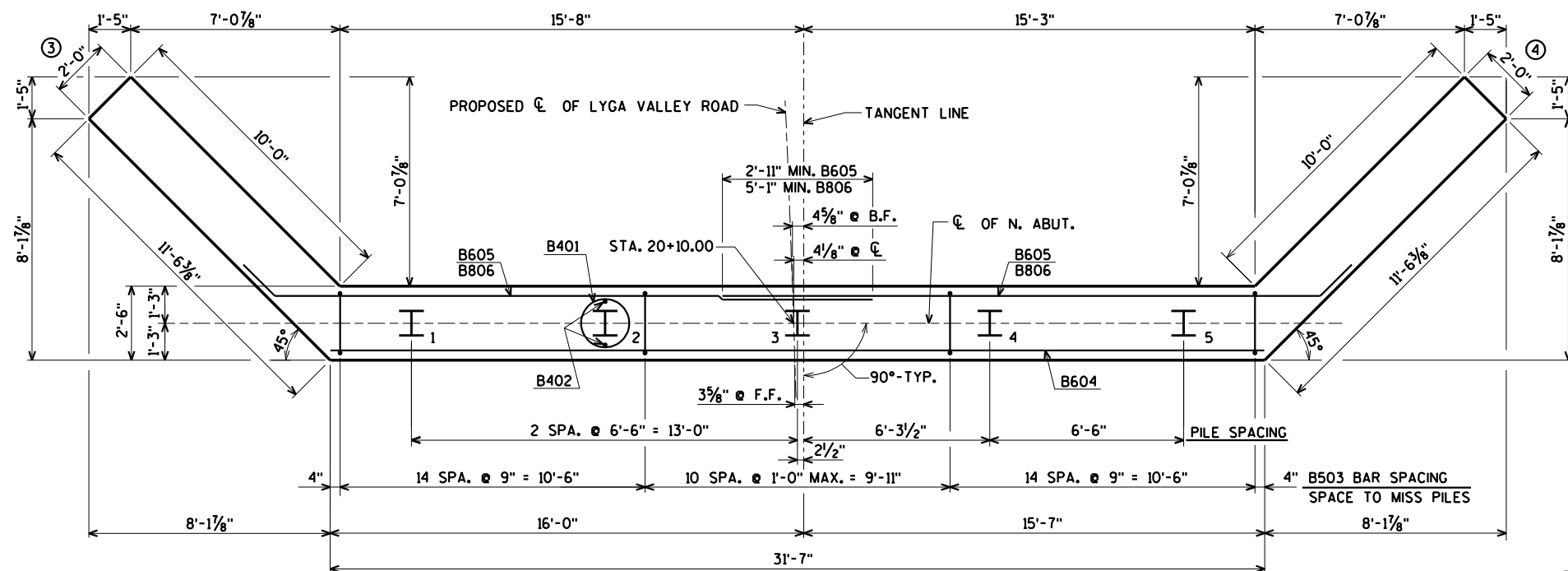
NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)



ELEVATION  
(LOOKING NORTH)



PLAN

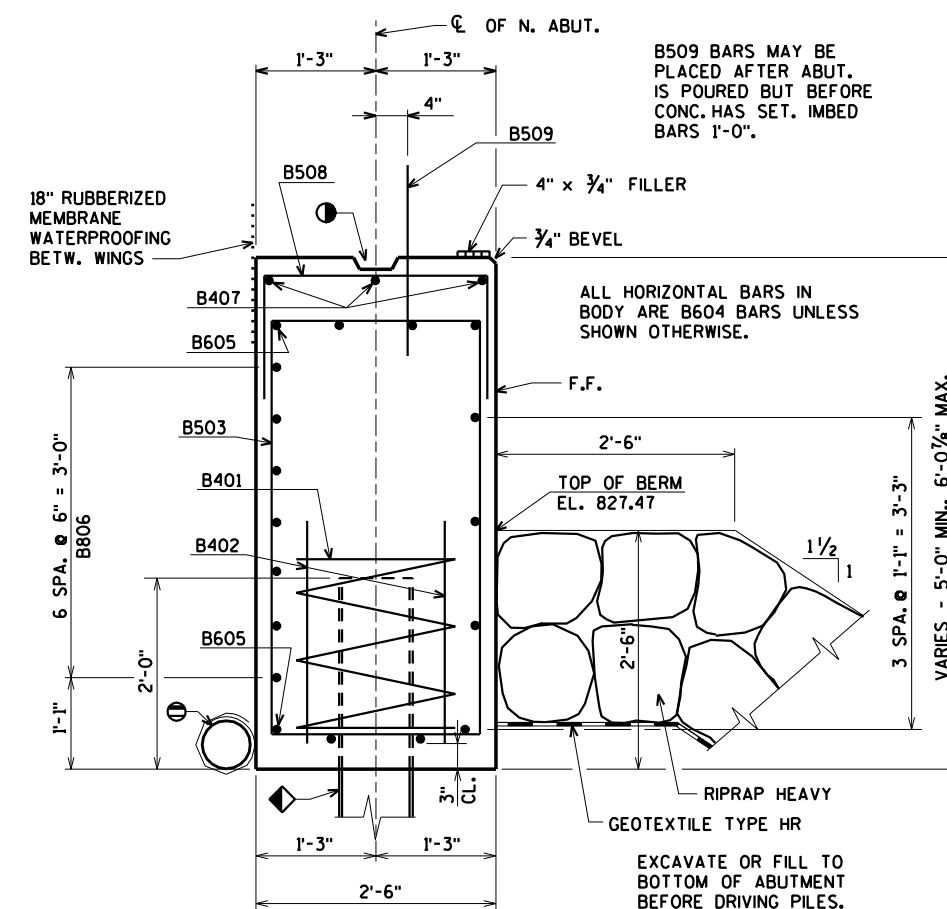


PILE LAYOUT

- OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
  - ① KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".
  - VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.
- FOR PILE SPLICE DETAIL SEE SHEET 2.
- B.F. DENOTES BACK FACE  
F.F. DENOTES FRONT FACE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY		CLS	PLANS CK'D. CKJ
NORTH ABUTMENT		SHEET 7 OF 12	

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**TYPICAL SECTION THRU BODY**

- ◆ ABUTMENT TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. ESTIMATED LENGTH 40'-0".

- ⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. FOR DETAIL SEE SHEET 5.

- ① KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".
- ☐ 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.
- OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
- ⊕ ¾" 'V' GROOVE ON F.F. OF JING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

ORIGINAL PLANS PREPARED BY

**AVRES**  
**ASSOCIATES**

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STRUCTURE B-61-225			
DRAWN BY		CLS	PLANS CK'D. CKD.
NORTH ABUTMENT WING 3 DETAILS		SHEET 8 OF	

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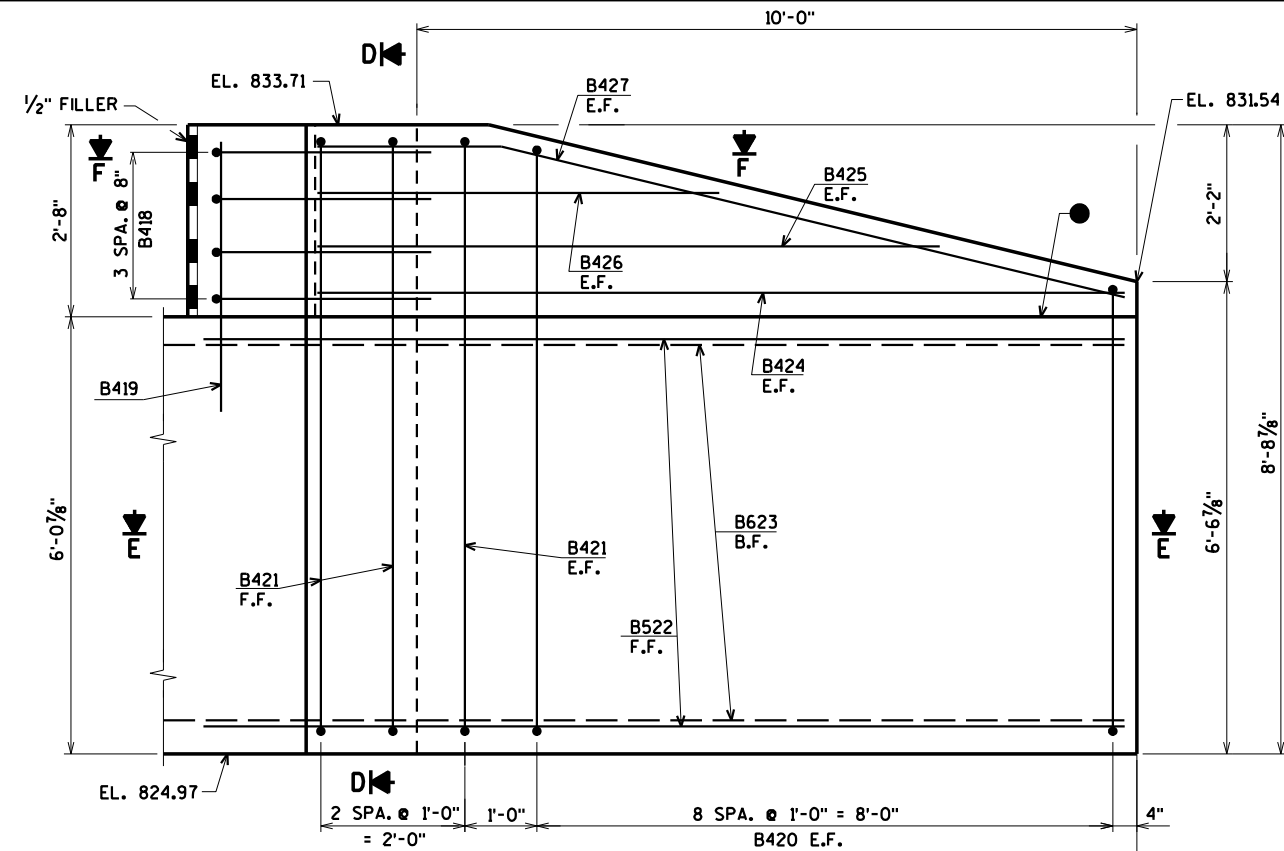
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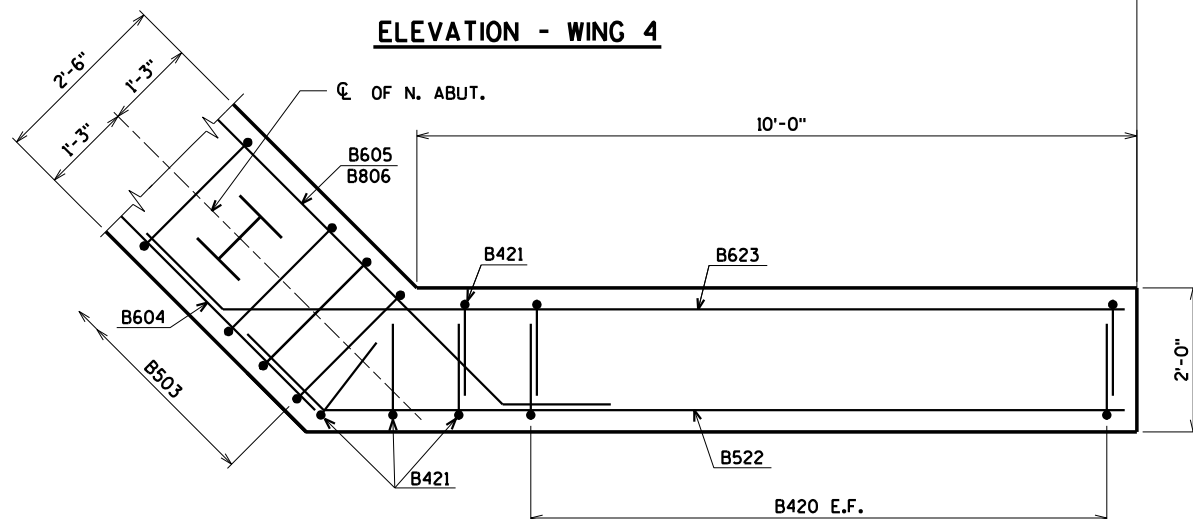
### BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	2,230' UNCOATED 890' COATED
						LOCATION
B401		5	28-0	X		BODY @ PILES
B402		10	2-3			BODY @ PILES
B503		39	13-10	X		BODY VERT.
B604		9	31-5			BODY HORIZ. F.F.
B605		4	20-8	X		BODY HORIZ. B.F.
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B407		3	25-6			BODY HORIZ.
B508		26	5-3	X		BODY VERT.
B509	X	26	2-0			BODY DOWELS
B410	X	18	8-7	X	⊗	WING 3 VERT. E.F.
B411	X	4	9-8	X		WING 3 VERT. E.F.
B512	X	5	12-8	X		WING 3 HORIZ. F.F.
B613	X	5	14-3	X		WING 3 HORIZ. B.F.
B414	X	2	11-3			WING 3 HORIZ. E.F.
B415	X	2	8-8			WING 3 HORIZ. E.F.
B416	X	2	5-7			WING 3 HORIZ. E.F.
B417	X	2	11-4	X		WING 3 DIAG. E.F.
B418	X	8	8-5	X		WINGS 3 & 4 HORIZ.
B419	X	14	4-6			WING 4 3 & 4 VERT.
B420	X	18	9-8	X	⊗	WING 4 VERT. E.F.
B421	X	4	10-9	X		WING 4 VERT. E.F.
B522	X	6	12-8	X		WING 4 HORIZ. F.F.
B623	X	6	14-3	X		WING 4 HORIZ. B.F.
B424	X	2	11-3			WING 4 HORIZ. E.F.
B425	X	2	8-8			WING 4 HORIZ. E.F.
B426	X	2	5-7			WING 4 HORIZ. E.F.
B427	X	2	11-4	X		WING 4 DIAG. E.F.

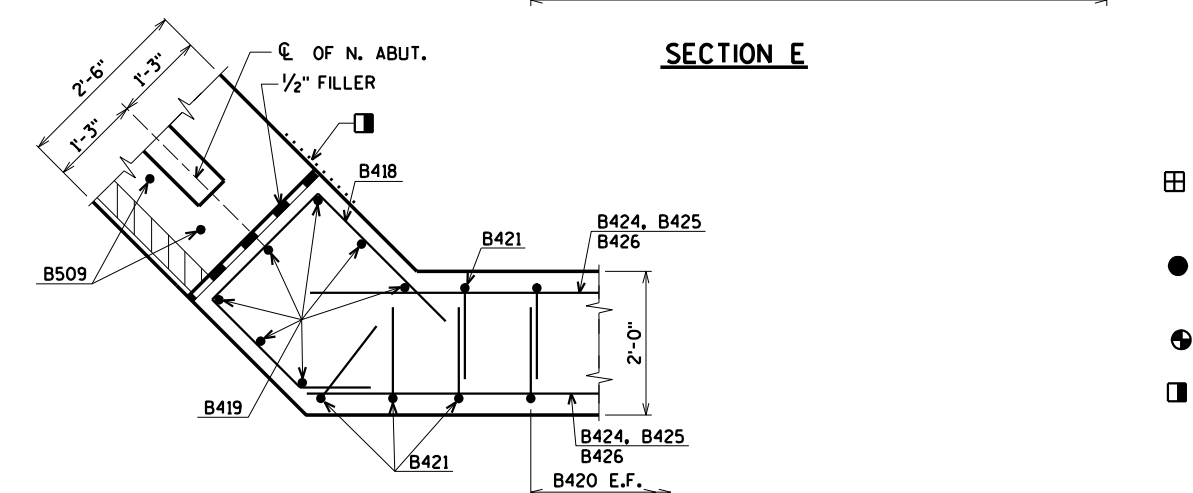
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.  
⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



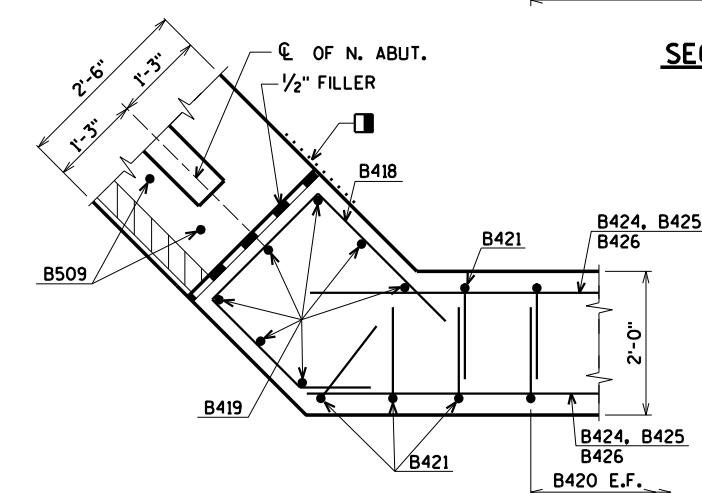
ELEVATION - WING 4



SECTION D



SECTION E



SECTION F

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST. JT. IS NOT USED.

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

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⊞ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPlice DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

### BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
B410	2 SERIES OF 9	7'-8" TO 9'-6"
B420	2 SERIES OF 9	8'-8" TO 10'-8"

BUNDLE AND TAG EACH SERIES SEPARATELY.

ORIGINAL PLANS PREPARED BY  
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STRUCTURE B-61-225			
DRAWN BY		CLS	PLANS CK'D. CKJ
NORTH ABUTMENT WING 4 DETAILS & BILL OF BARS			SHEET 9 OF 12



ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM.  
ANY TOLERANCES NECESSARY TO CORRECT  
CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

[illegible]

The image contains three technical drawings of pipe fittings, each with its dimensions and part number labeled.

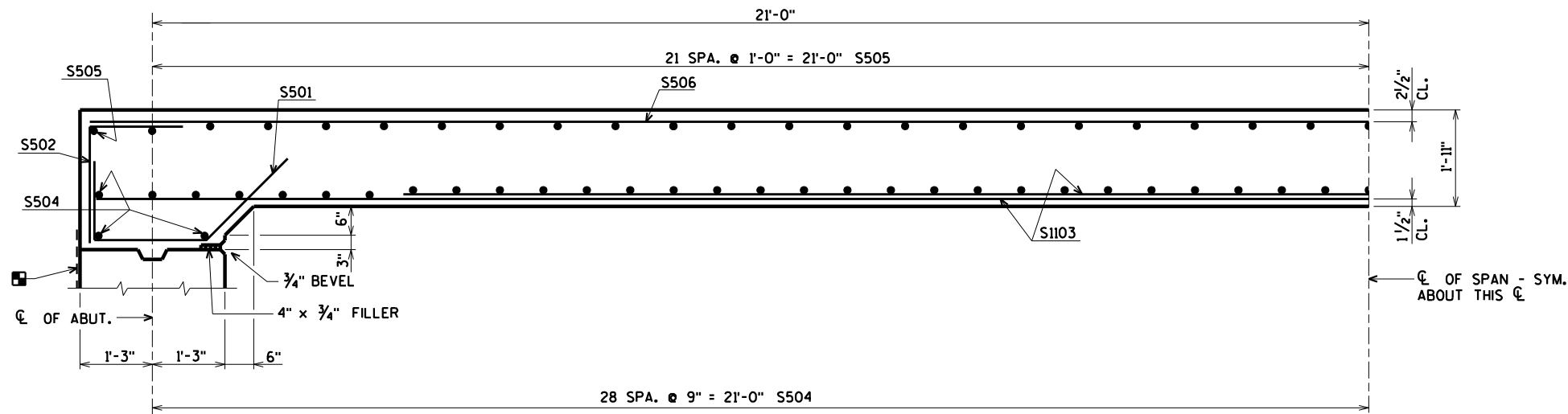
- S501:** A side view of a fitting with a vertical leg on the left. The vertical leg has a height of 1'-3". The horizontal base has a total length of 2'-1" (divided into 2'-1" and 1'-9" segments) and a height of 1'-9" on the right side.
- S609:** A side view of a fitting with a vertical leg on the left. The vertical leg has a height of 5'-0". The horizontal base has a total length of 1'-6".
- S607:** A side view of a fitting with a vertical leg on the left. The vertical leg has a height of 5'-9". The horizontal base has a total length of 10".



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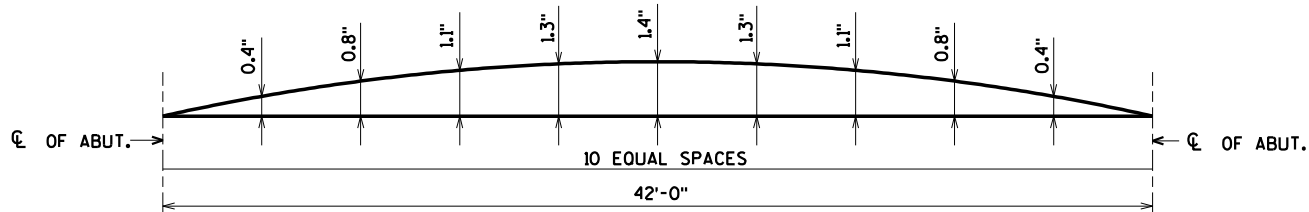
STATE PROJECT NUMBER

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18" RUBBERIZED MEMBRANE WATERPROOFING

**PART LONGITUDINAL SECTION**



**CAMBER DIAGRAM**

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE CL. OF ABUTMENTS AND 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR CL.

**TOP OF DECK ELEVATIONS**

LOCATION	CL. OF S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL. OF N. ABUT.
W. EDGE OF SLAB	832.47	832.48	832.49	832.51	832.52	832.54	832.56	832.58	832.60	832.62	832.64
CL. OF STRUCTURE	833.00	833.02	833.03	833.05	833.07	833.08	833.10	833.12	833.14	833.15	833.17
E. EDGE OF SLAB	833.54	833.55	833.57	833.58	833.60	833.61	833.63	833.65	833.67	833.69	833.71

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

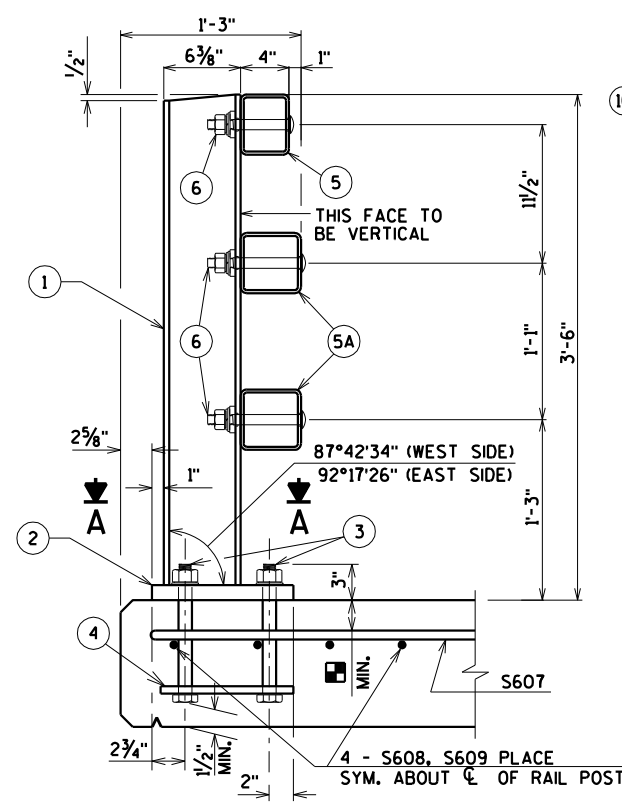
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY	CLS	PLANS CK'D.	CKJ
SUPERSTRUCTURE DETAILS			SHEET 11 OF 12

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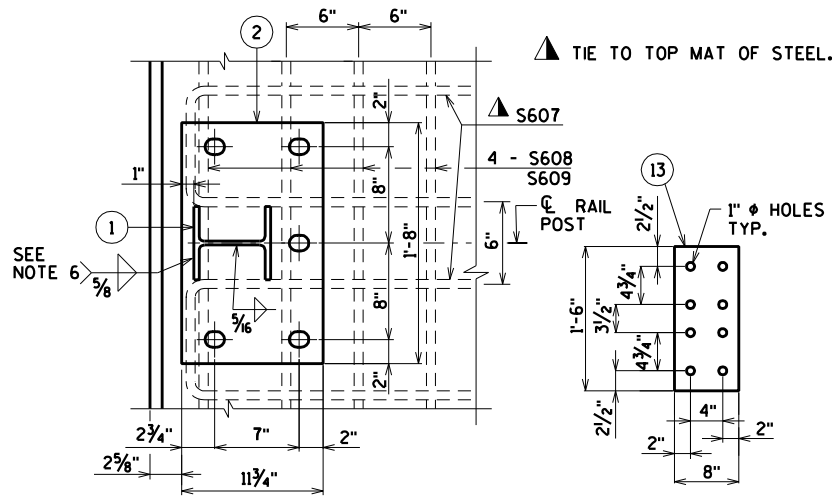
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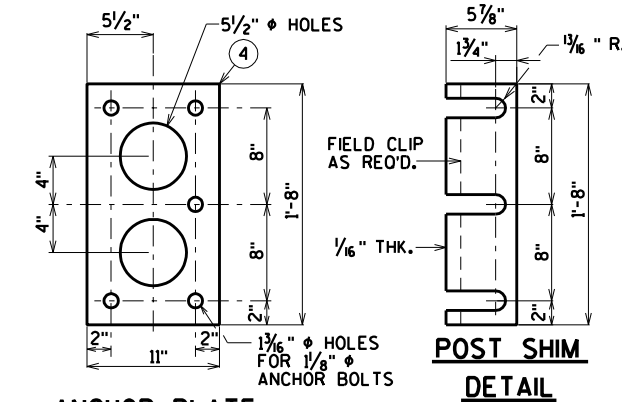


SECTION THRU RAILING ON DECK

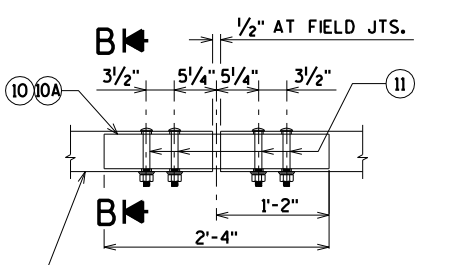
PLACE BELOW TOP MAT SLAB REINFORCEMENT.



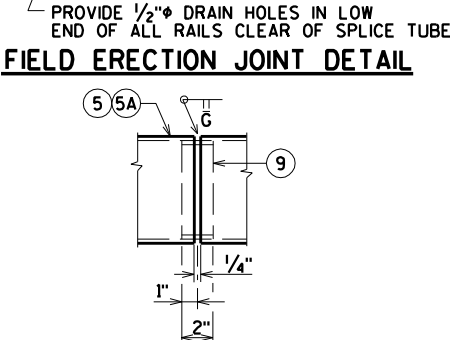
SECTION A



ANCHOR PLATE (AT RAIL TO DECK CONNECTION)

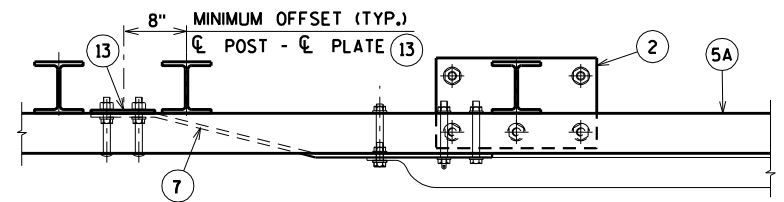


FIELD ERECTION JOINT DETAIL

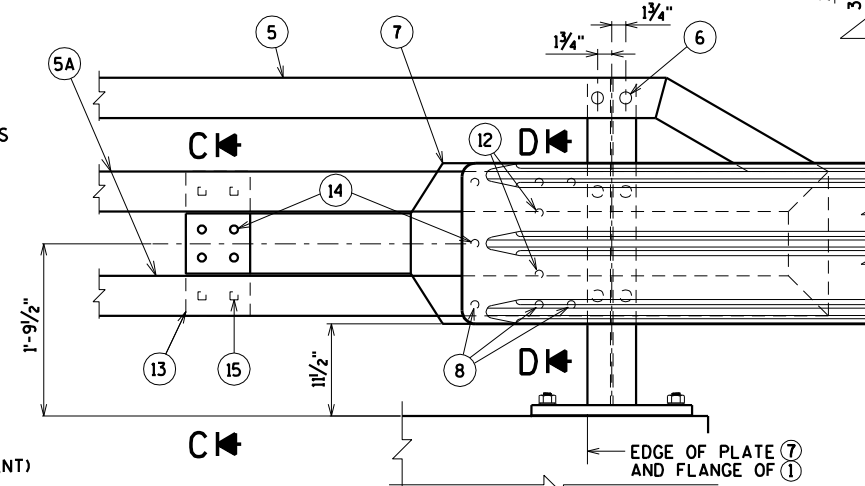


SHOP RAIL SPICE DETAIL

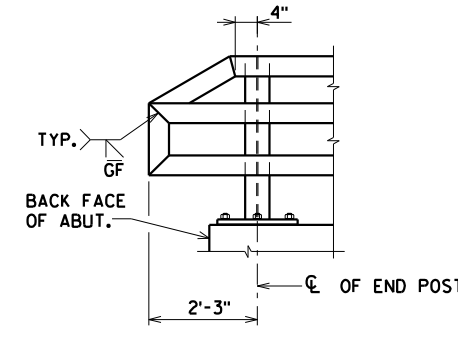
(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



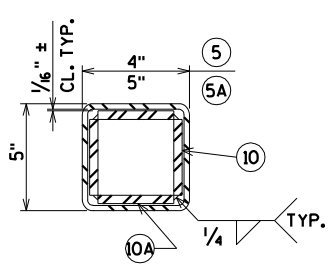
TOP VIEW AT END POST (THRIE BEAM RAIL ATTACHMENT)



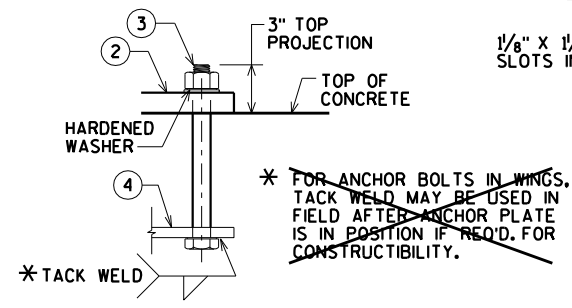
DETAIL AT END POST (THRIE BEAM RAIL ATTACHMENT)



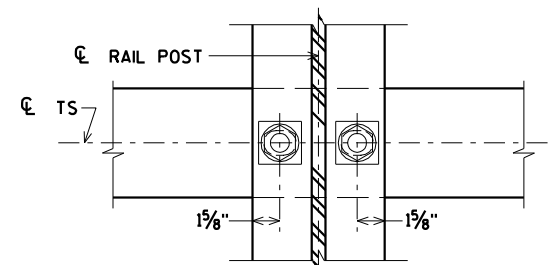
PART ELEVATION OF RAILING



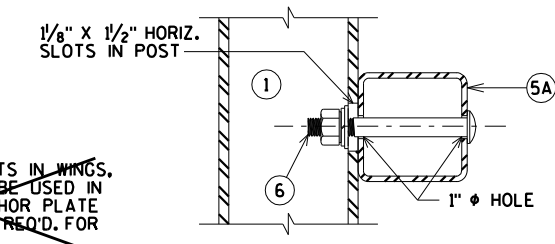
SECTION B



ANCHOR BOLTS



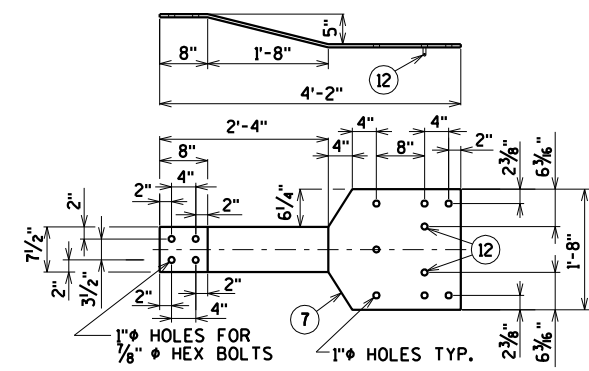
SECTION THRU POST WEB



SECTION THRU RAIL

NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

TYPICAL RAIL TO POST CONNECTIONS



BACK-UP PLATE DETAIL (AT BEAM GUARD ATTACHMENT)

GENERAL NOTES

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-61-225" WHICH INCLUDES ALL ITEMS SHOWN.
2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.
5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO.2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
10. WHEN PAINTING IS REQUIRED, ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 3 & 4) SHALL BE PAINTED OVER GALVANIZING WITH APPROVED TIE COAT AND TOP COAT.
11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
12. PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.

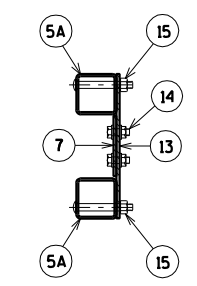
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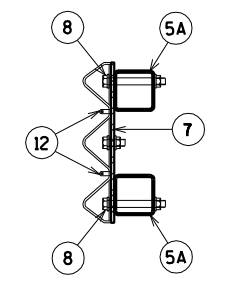
7277-00-70

LEGEND

- 1 W6 x 25 WITH 1 1/8" x 1 1/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2 PLATE 1/4" x 1 3/4" x 1'-8" WITH 1 1/8" x 1 1/8" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- 3 ASTM A449 - 1 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 7/8" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTIBILITY.)
- 4 5/8" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1 1/8" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- 5 TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 5A TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 6 7/8" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/8" x 1 5/8" x 1 5/8" WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
- 7 1/2" THK. BACK-UP PLATE WITH 2 - 7/8" x 1 1/2" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- 8 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR 7/8" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
- 9 SPICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- 10 3/8" x 3 5/8" x 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- 10A 3/8" x 2 5/8" x 2'-4" PLATE USED IN NO. 5. 3/8" x 3 5/8" x 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- 11 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE 1 1/8" x 1 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND 5/8" x 2 1/4" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.
- 12 7/8" DIA. x 1 1/2" LONG THREADED SHOP WELDED STUDS (2 REQ'D.).
- 13 3/8" x 8" x 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REQ'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A.
- 14 7/8" DIA. x 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).
- 15 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES.



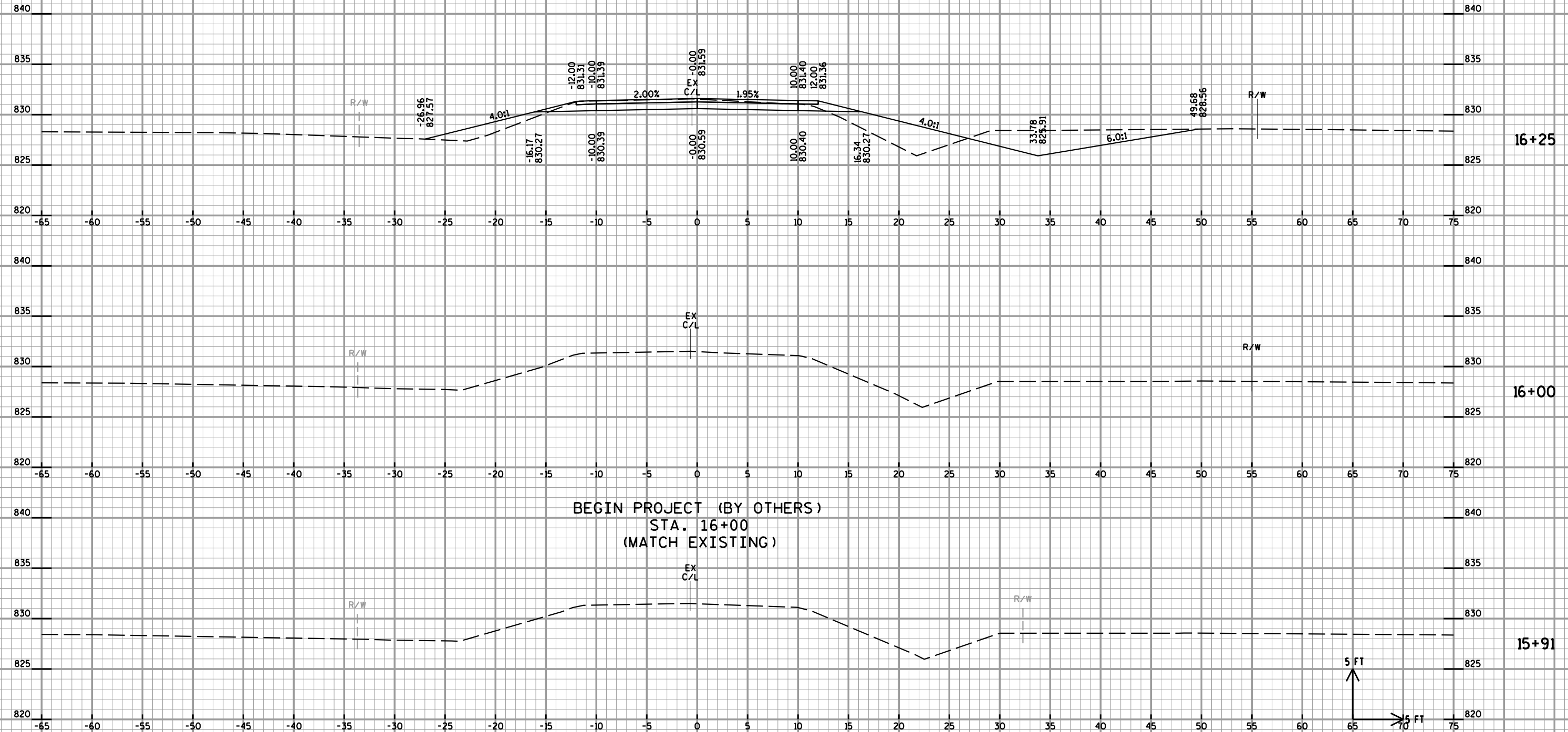
SECTION C



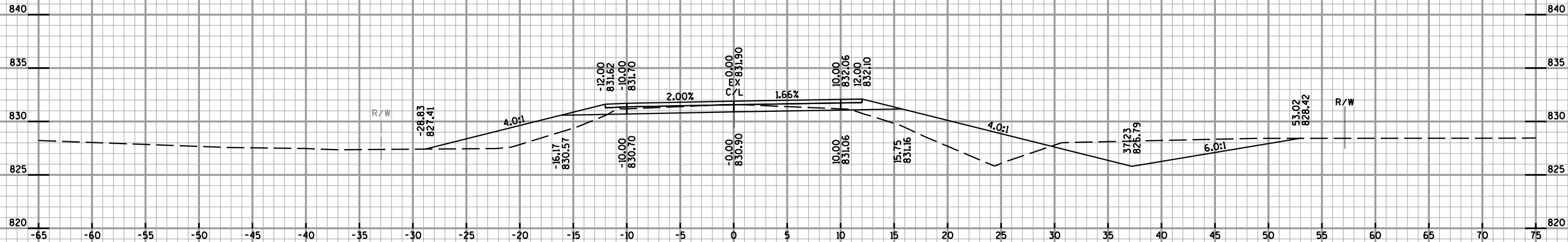
SECTION D

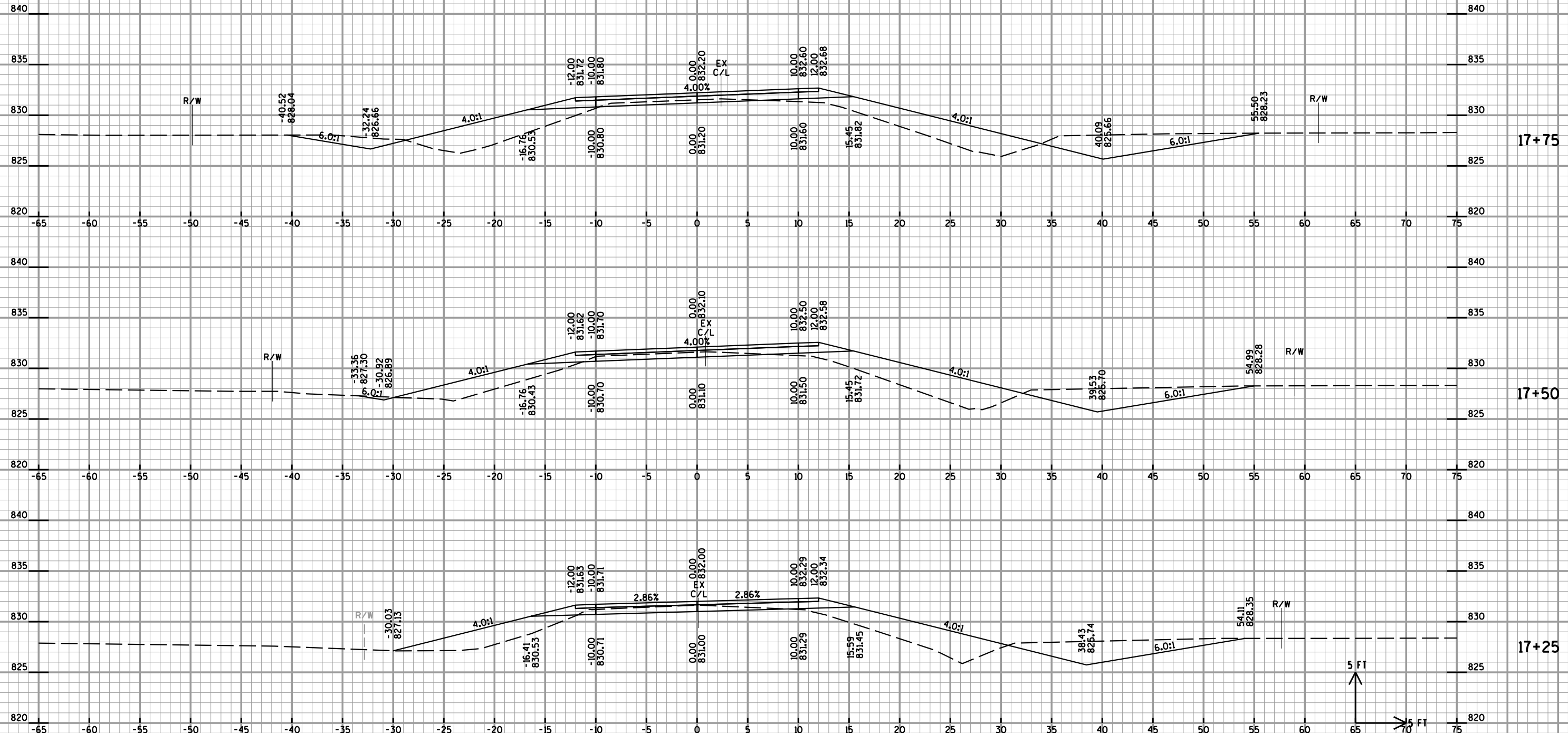
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-225			
DRAWN BY CLS		PLANS CK'D. CKJ	
RAILING TUBULAR TYPE M			SHEET 12 OF 12

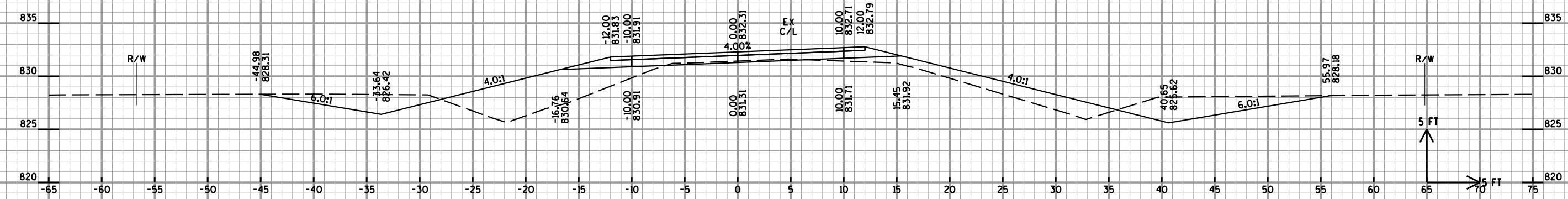
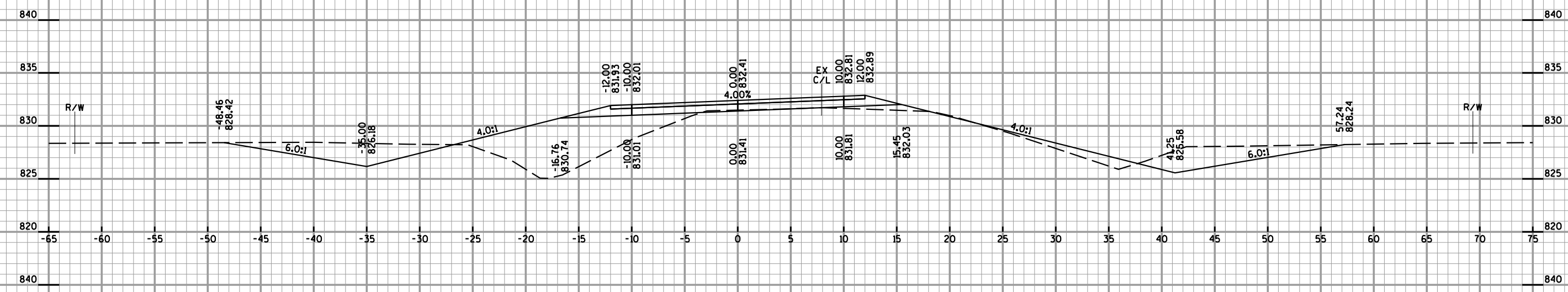
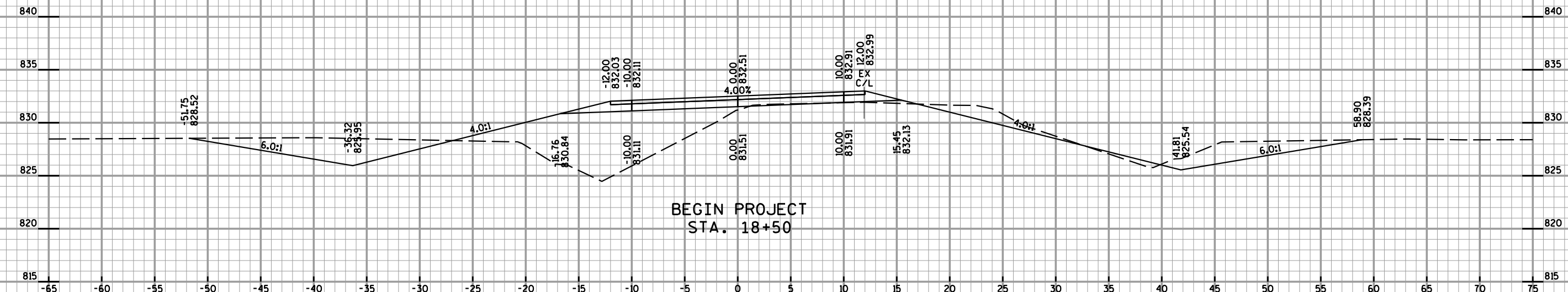
EARTHWORK SUMMARY (CATEGORY 0010)												
DIVISION	STATION	AREA			INCREMENTAL VOLUME			CUMULATIVE VOLUME			MASS ORDINATE ±(5) CY	
		CUT SF	SALVAGED/ UNUSABLE PAVEMENT MATERIAL SF	FILL SF	CUT (1) CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (2) CY	FILL (3) CY	CUT (1) 1.00 CY	EXPANDED FILL (4) 1.30 CY			
1 LYGA VALLEY ROAD	18+50	63	0	87	76	0	88	76	114		-38	
	18+75	102	0	103	115	0	109	191	256		-65	
	19+00	146	0	131	159	0	142	350	441		-91	
	19+25	198	0	176	237	0	190	587	688		-101	
	19+50	315	0	235	195	0	146	782	878		-96	
	19+67	315	0	235	0	0	0	782	878		-96	
	STRUCTURE (B-61-225)											
	20+11	34	0	221	17	0	112	17	146		-129	
	20+25	34	0	221	22	0	208	39	416		-377	
	20+50	13	0	230	13	0	200	52	676		-624	
	20+75	14	0	202	15	0	176	67	905		-838	
	21+00	18	0	179	15	0	163	82	1,117		-1,035	
	21+25	15	0	174	0	0	0	82	1,117		-1,035	
	TOTALS					864	0	1,534				-1,130
	205.0100 EXCAVATION COMMON =					SAY 864			208.0100 BORROW =			SAY 1,130
NOTES:												
1) EXCAVATION COMMON IS THE SUM OF THE CUT COLUMN. ITEM NUMBER 205.0100												
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.												
3) DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME.												
4) EXPANDED FILL FACTOR = 1.30 EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR												
5) THE MASS ORDINATE ± QTY CALCULATED FOR THE DIVISION.												
PLUS (+) QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.												
MINUS (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.												

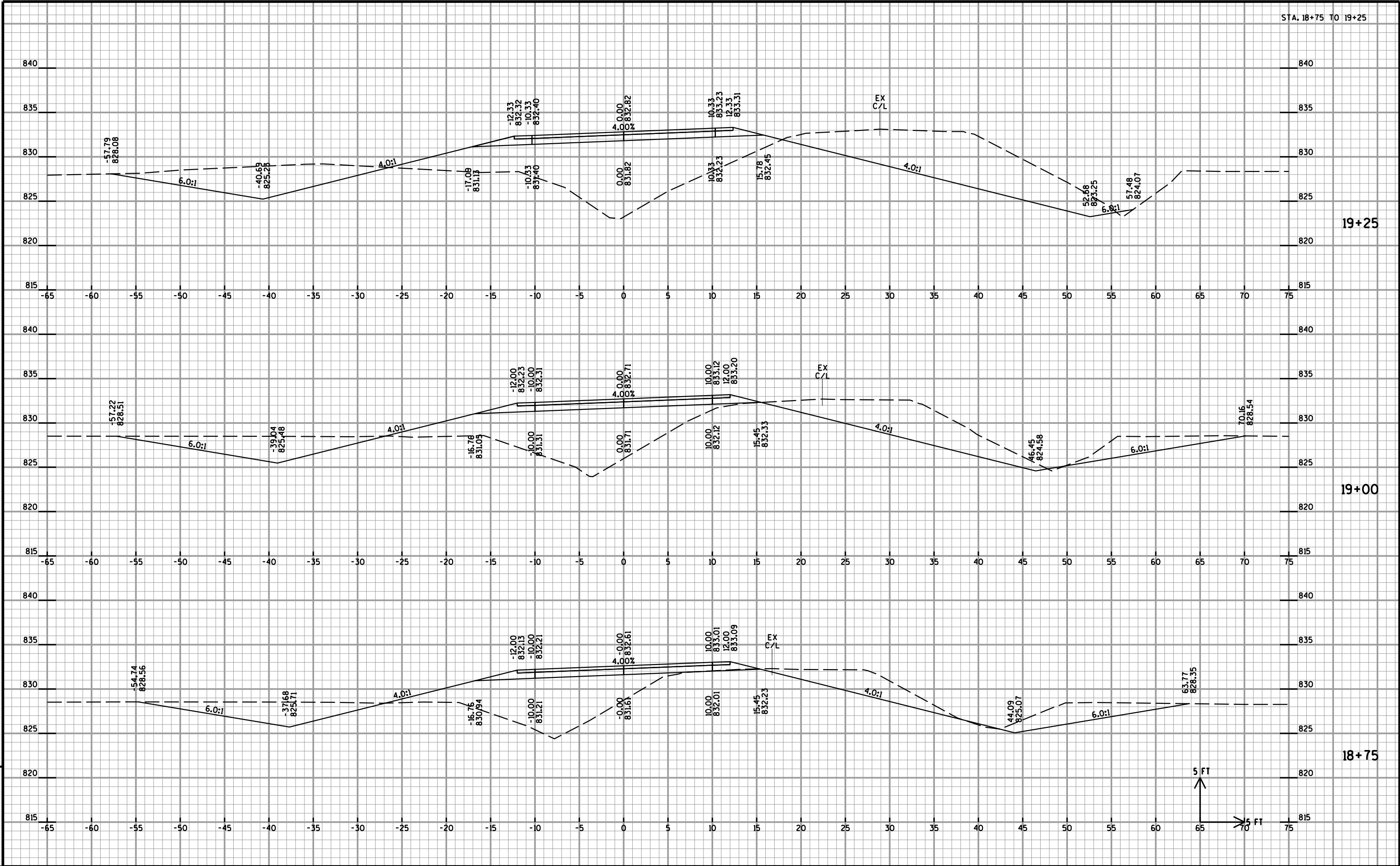


BEGIN PROJECT (BY OTHERS)  
STA. 16+00  
(MATCH EXISTING)



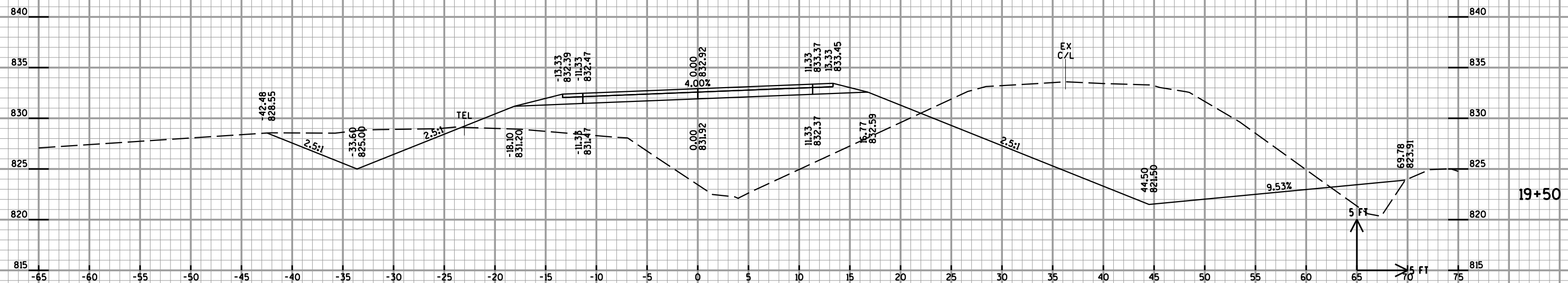








STRUCTURE B-61-225



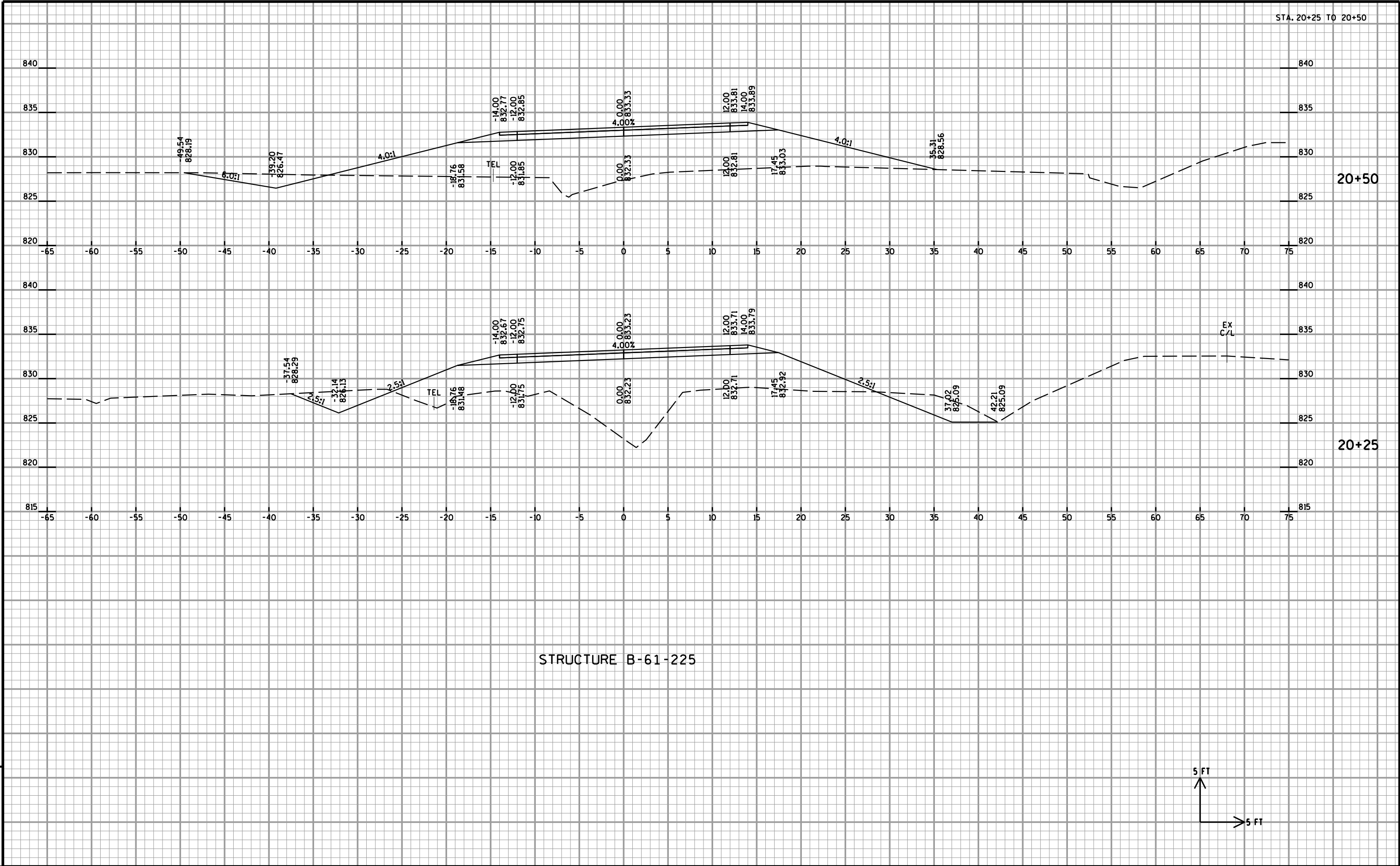
PROJECT NO: 7277-00-70

HWY:	LYGA VALLEY ROAD
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COUNTY: TREMPEALEAU

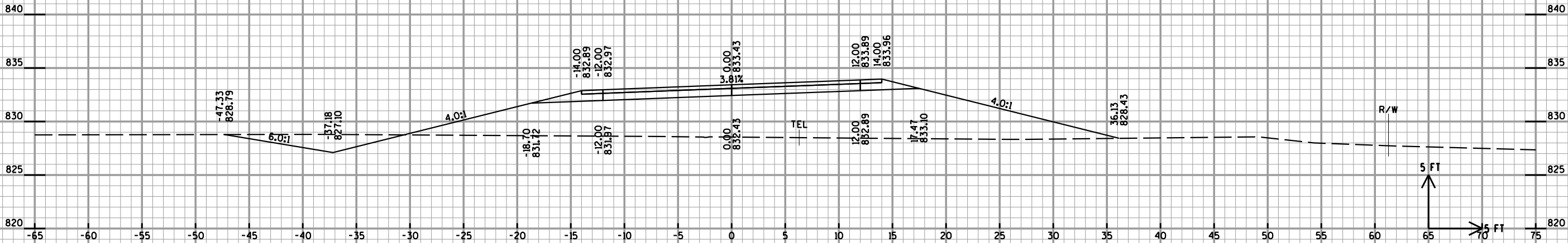
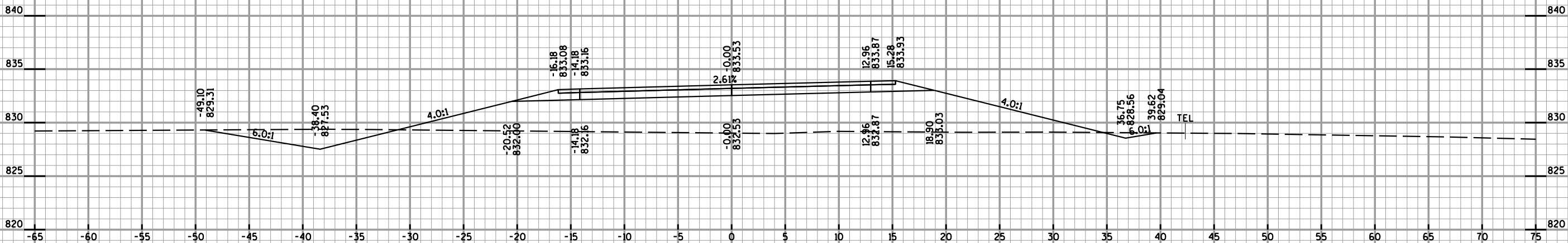
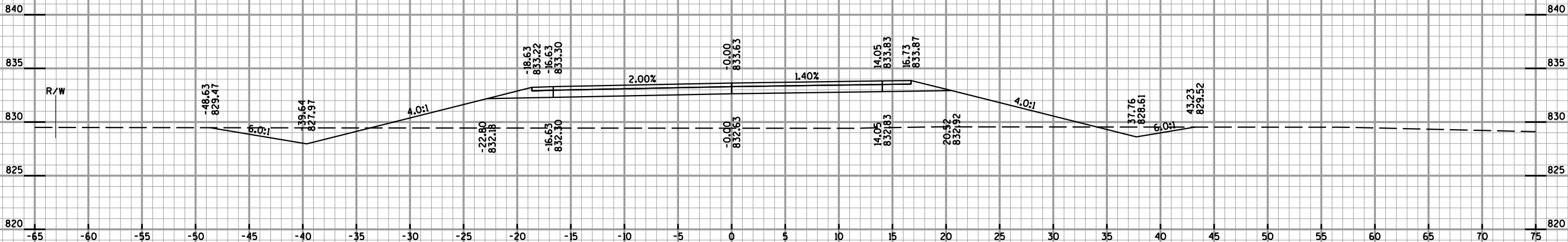
CROSS SECTIONS - LYGA VALLEY ROAD

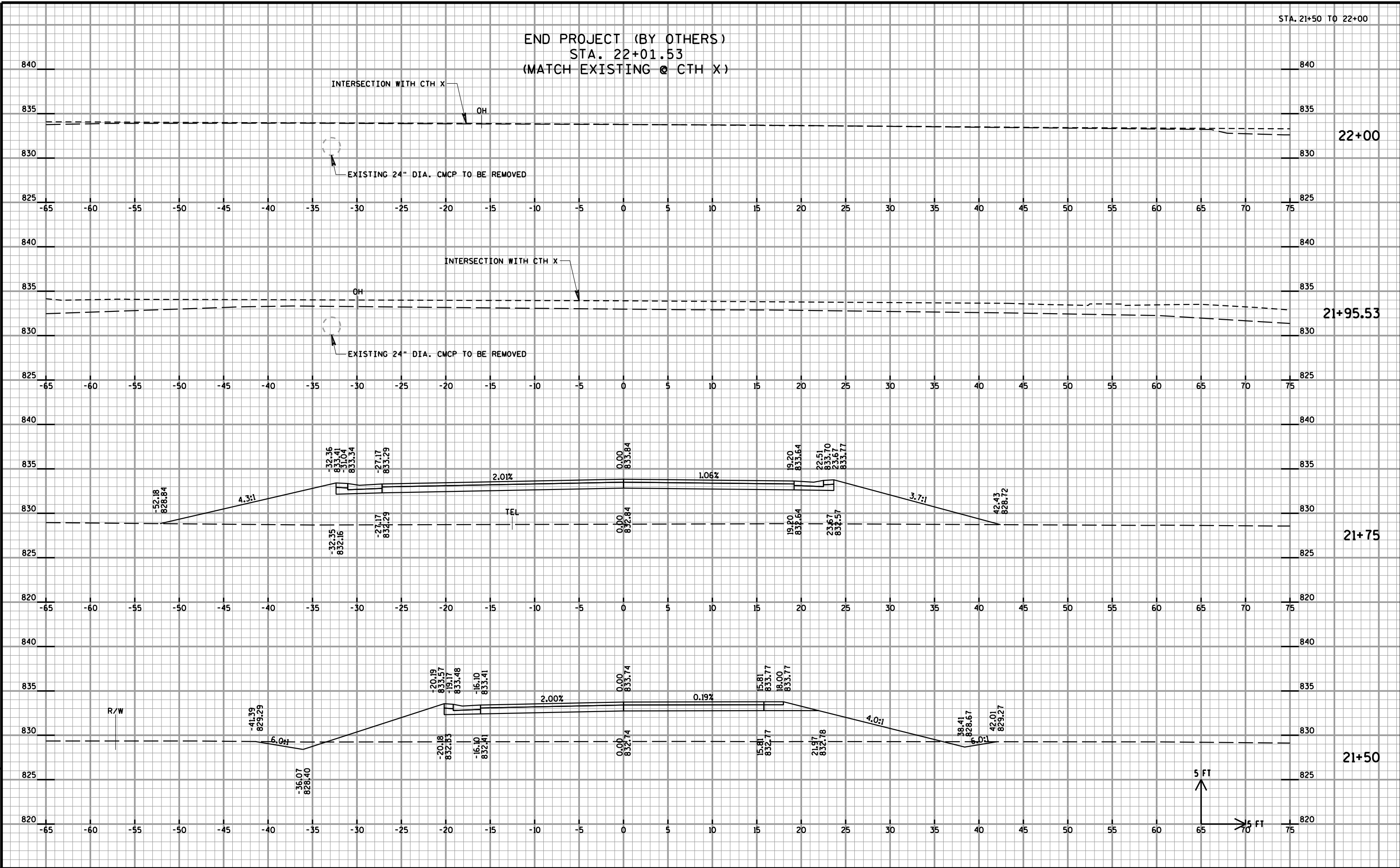
**SHEET**

STRUCTURE B-61-225

END PROJECT  
STA. 21+25





PROJECT NO: 7277-00-70

HWY: LYGA VALLEY ROAD

COUNTY: TREMPLEALEU

CROSS SECTIONS - LYGA VALLEY ROAD

SHEET

E

FILE NAME : V:\Structures-EC\42-0998.00 - Trempealeau Co, Tn Burnside, Lyga Valley Road\Inroads\420998\_xs realign.dgn

PLOT DATE : 1/15/2018

PLOT BY : AYRES-EC

PLOT NAME :

PLOT SCALE : 1:10

WISDOT/CADDs SHEET 21



## ***Wisconsin Department of Transportation***

Dedicated people creating transportation solutions  
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>