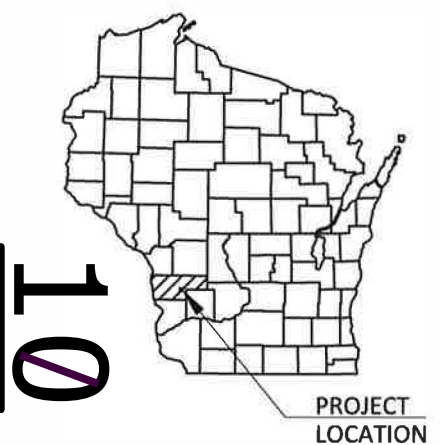


LAX
PROJECT ID: 5289-00-73
COUNTY: VERNON COUNTY

NOVEMBER 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 Plan
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 = 50



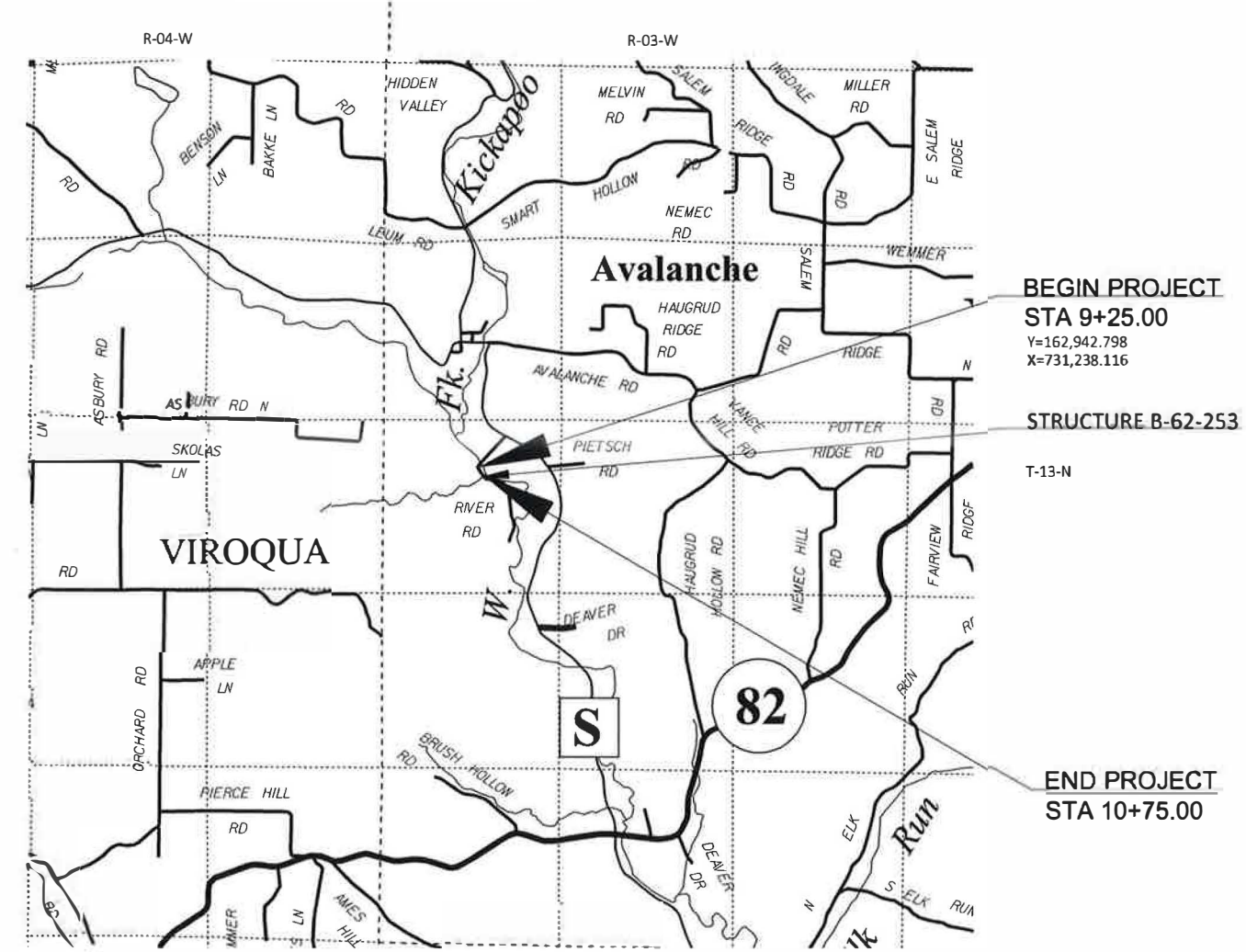
DESIGN DESIGNATION		
A.A.D.T.	(2018)	20
A.A.D.T.	(2038)	20
D.H.V.		N/A
D.D.		50/50
T.		5.0%
DESIGN SPEED		20 MPH
ESALS		N/A

CONVENTIONAL SYMBOLS

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
TOWN OF WEBSTER, RIVER ROAD
BRANCH WEST FORK KICKAPOO RIVER B-62-0253
TOWN ROAD
VERNON COUNTY

STATE PROJECT NUMBER
5289-00-73



BEGIN PROJECT
STA 9+25.00
Y=162,942.798
X=731,238.116

STRUCTURE B-62-253
T-13-N

END PROJECT
STA 10+75.00

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

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5289-00-73		

ACCEPTED FOR VERNON COUNTY
DATE: 4-25-18 Phil Hewitt (Signature)
(Highway Commissioner)

ACCEPTED FOR TOWN OF WEBSTER
DATE: 4-26-18 Cher (Signature)
(Title of Official)

ORIGINAL PLANS PREPARED BY
CORRE
ERIC T. PRICE
E-39027
MADISON
WI
DATE: 4/24/18 (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor CORRE, INC.
Designer CORRE, INC.

Management Consultant
KL ENGINEERING
(Signature)

APPROVED FOR THE DEPARTMENT
DATE: 4/30/18 Seff Melville (Signature)
MANAGEMENT CONSULTANT SIGNATURE E

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NAVD88 (2012).

CURVE DATA IS BASED ON THE ARC DEFINITION.

BEARINGS SHOWN ON THE PLANS ARE GRID/GROUND/PROJECT BEARINGS TO THE NEAREST SECOND.

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

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

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

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGE TOPSOILED, FERTILIZED, AND SEEDED AND MULCHED. FINISHED SEEDED SURFACE SHALL BE 1-INCH BELOW THE TOP OF ADJACENT CONCRETE.

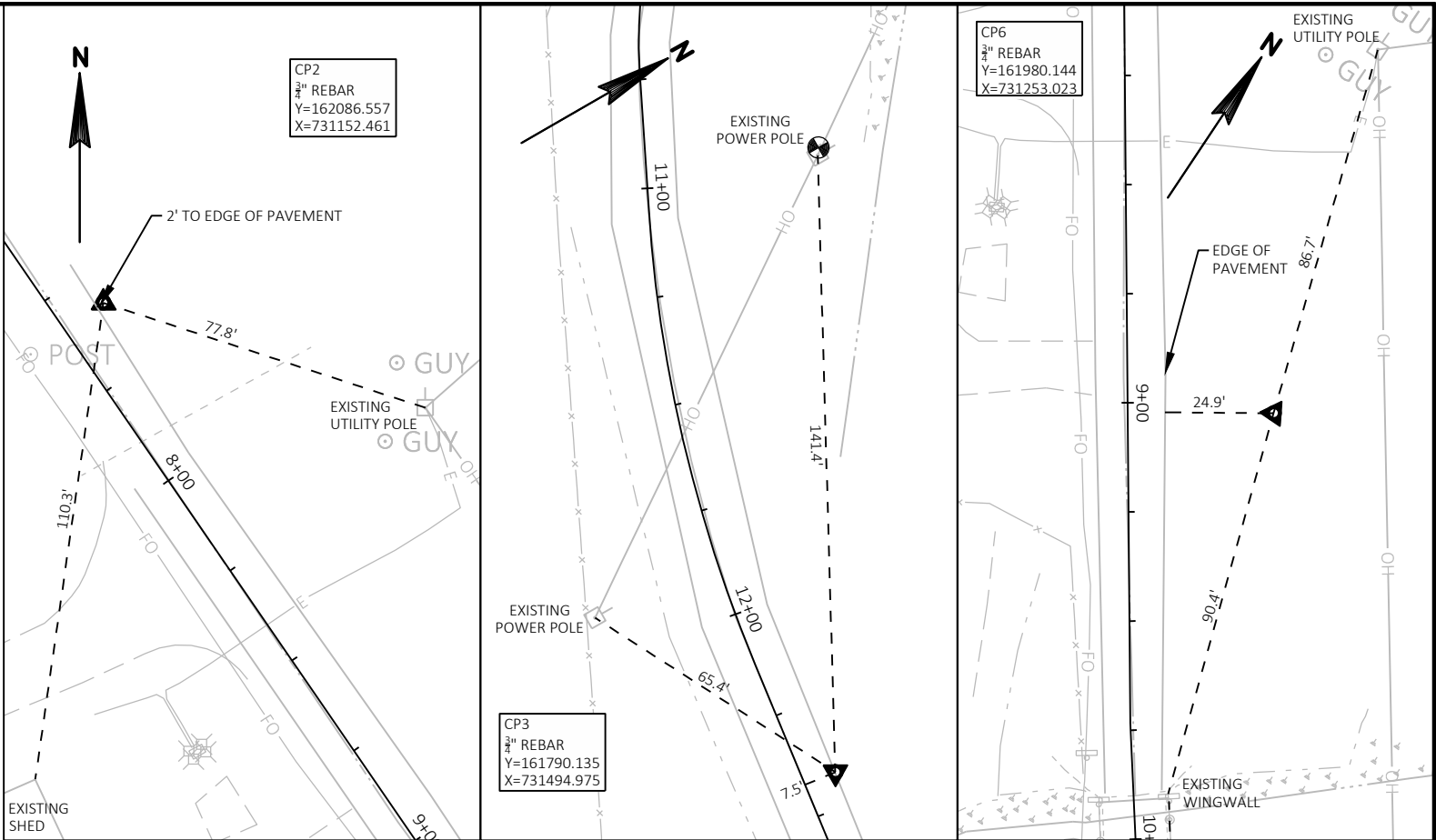
ALL PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

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

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

WETLANDS EXIST WITHIN THE PROJECT LIMITS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS.

3.5 IN ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN 2 EQUAL LIFTS.



CONSTRUCTION TIES FOR RIVER ROAD OVER BRANCH WEST FORK KICKAPOO RIVER

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 0.59 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.25 ACRES

UTILITY CONTACTS

* ELECTRIC

VERNON ELECTRIC COOPERATIVE
CRAIG BUROS
110 NORTH MAIN ST
WESTBY, WI 54667
MAIN: (608) 634-3121
CELL: (608) 632-0279
EMAIL: CBUROS@VERNONELECTRIC.ORG

* COMMUNICATIONS

VERNON COMMUNICATIONS COOPERATIVE
SCOTT FREDERICK
103 NORTH MAIN ST
WESTBY, WI 54667
MAIN: (608) 634-7434
CELL: (608) 632-0607
EMAIL: SFREDERICK@VERNONCOM.COOP

* DENOTES DIGGERS HOTLINE MEMBER



CONSULTANT CONTACT

CORRE, INC.
6510 GRAND TETON PLAZA
SUITE 314
MADISON, WI 53719

ERIC PRICE, P.E.
(608)-828-6146
EPRICE@CORREINC.COM

DNR CONTACT

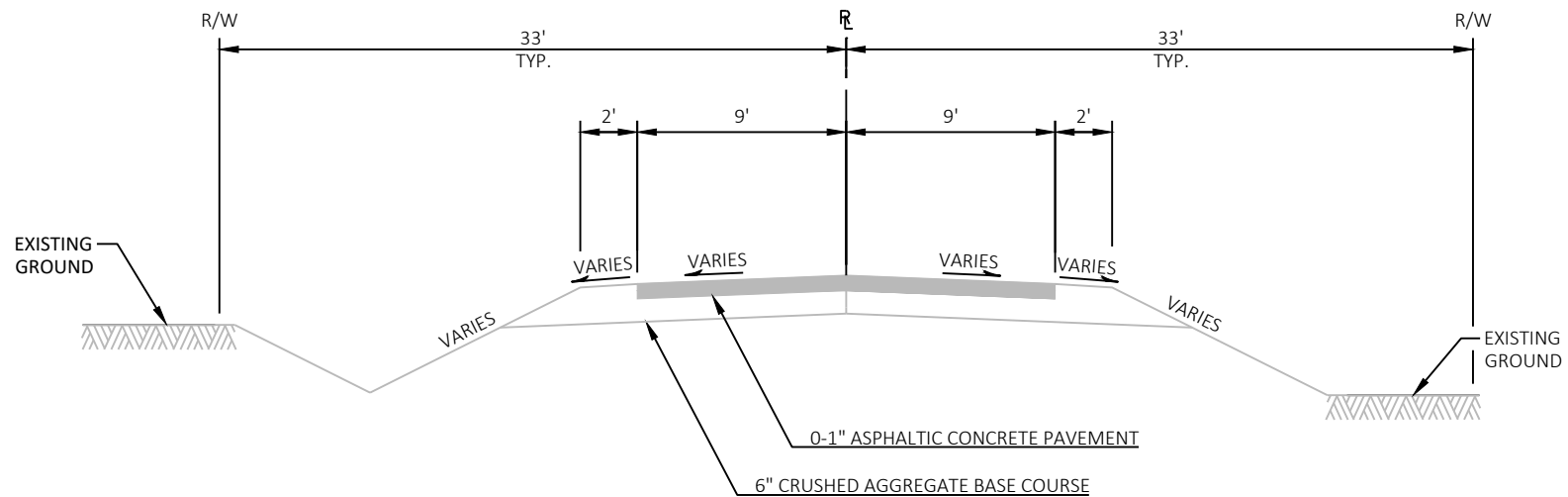
DEPARTMENT OF NATURAL RESOURCES
3550 MORMON COULEE RD
LA CROSSE, WI 54601

KAREN KALVELAGE
(608) 785-9115
KAREN.KALVELAGE@WISCONSIN.GOV

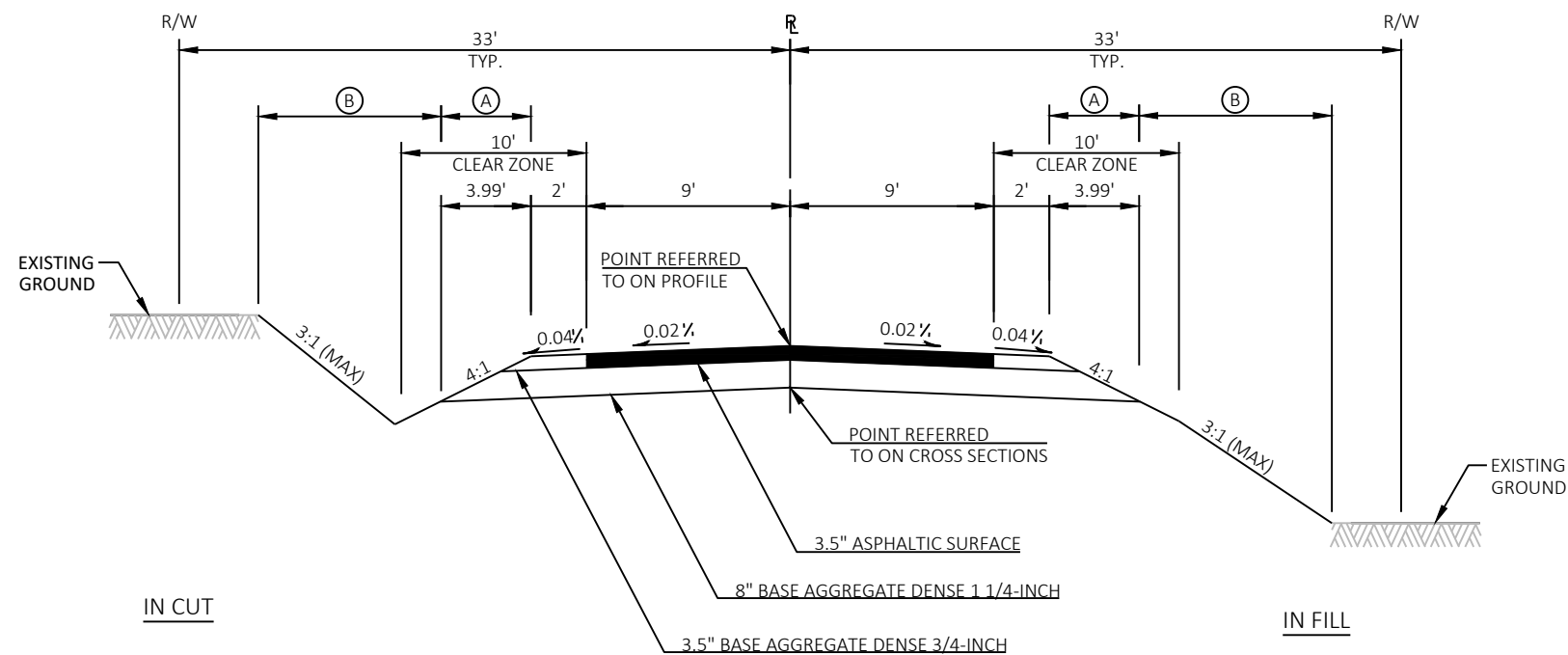
COUNTY CONTACT

VERNON COUNTY HIGHWAY DEPT.
602 NORTH MAIN STREET
P.O. BOX 232
VIROQUA, WI 54665

PHIL HEWITT
(608) 637-5452
PHIL.HEWITT@VERNONCOUNTY.ORG



TYPICAL EXISTING SECTION
RIVER ROAD
STA 9+25.00 - STA 10+75.00



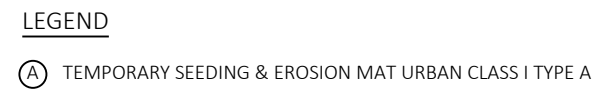
TYPICAL FINISHED SECTION
RIVER ROAD
STA 9+25.00 - STA 9+81.75
STA 10+18.25 - STA 10+75.00

LEGEND

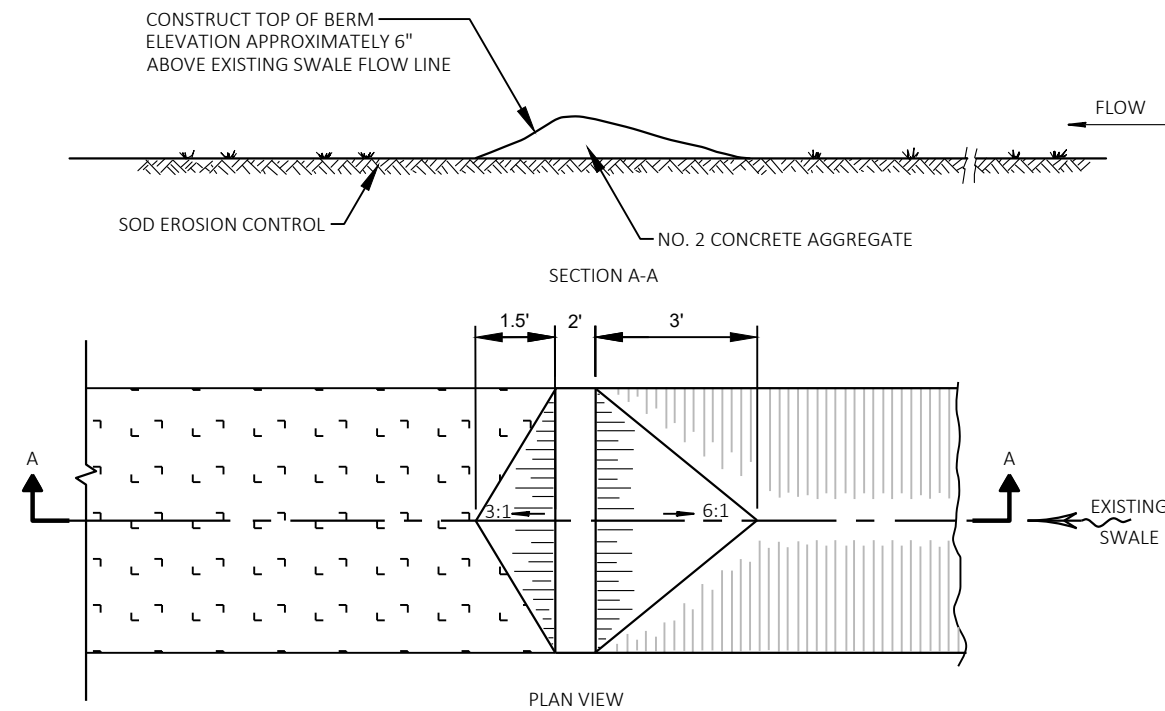
- (A) FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; SEEDING TEMPORARY
- (B) SALVAGED TOPSOIL; MULCHING; FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; SEEDING TEMPORARY

NOTES

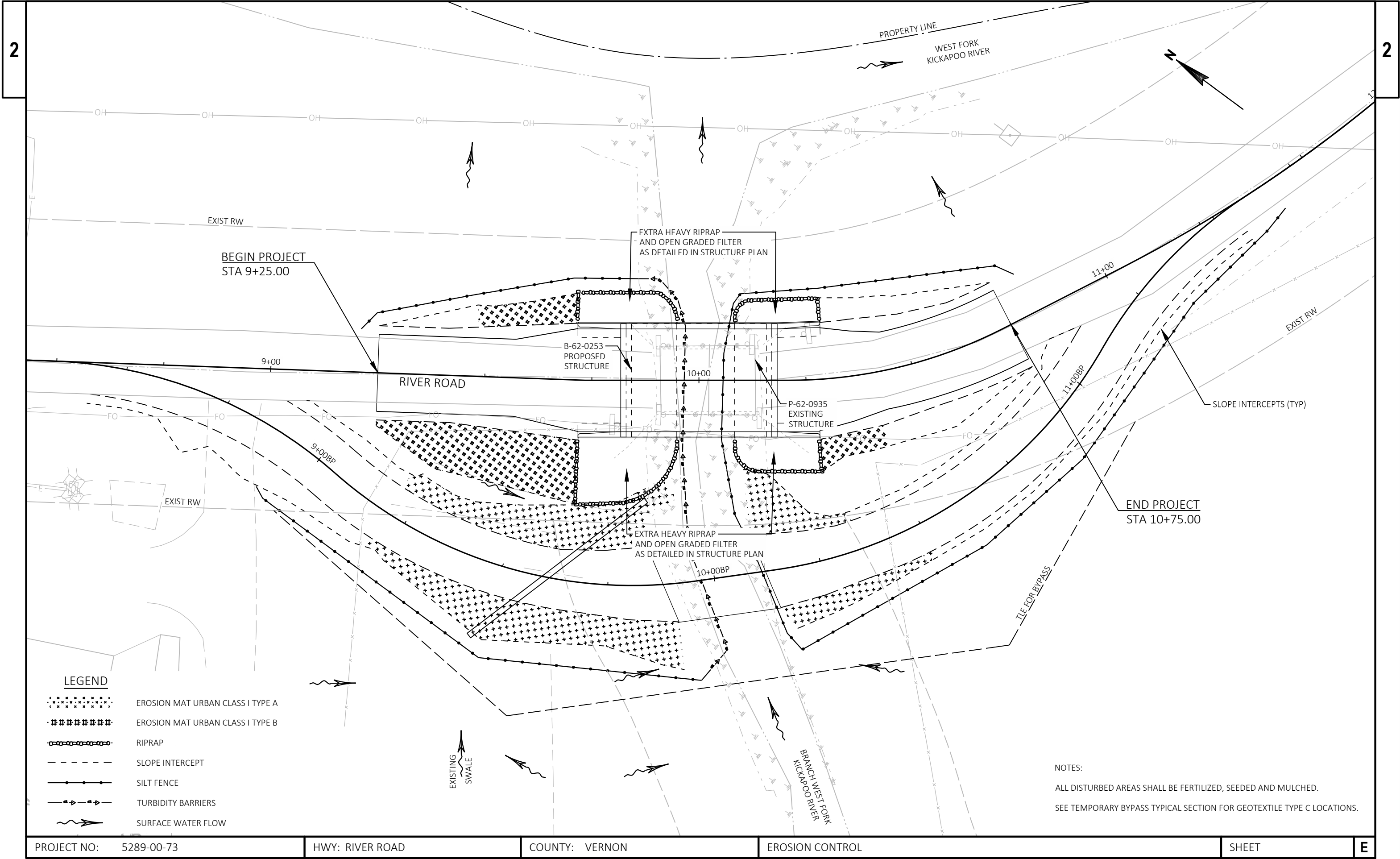
INSTALL EROSION MAT URBAN CLASS I TYPE B ON ALL SLOPES 3:1 OR GREATER OR AS SHOWN ON THE EROSION CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.

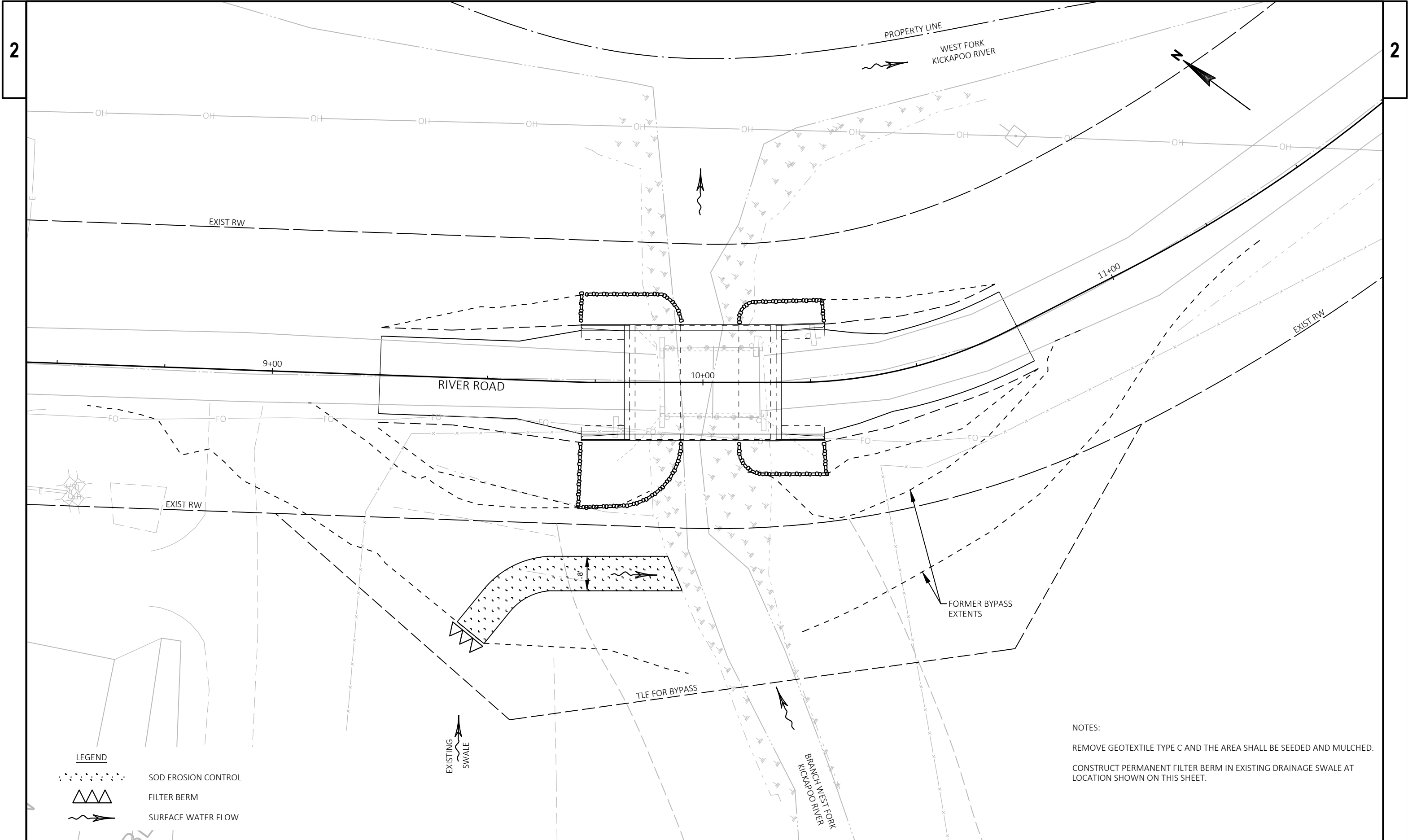


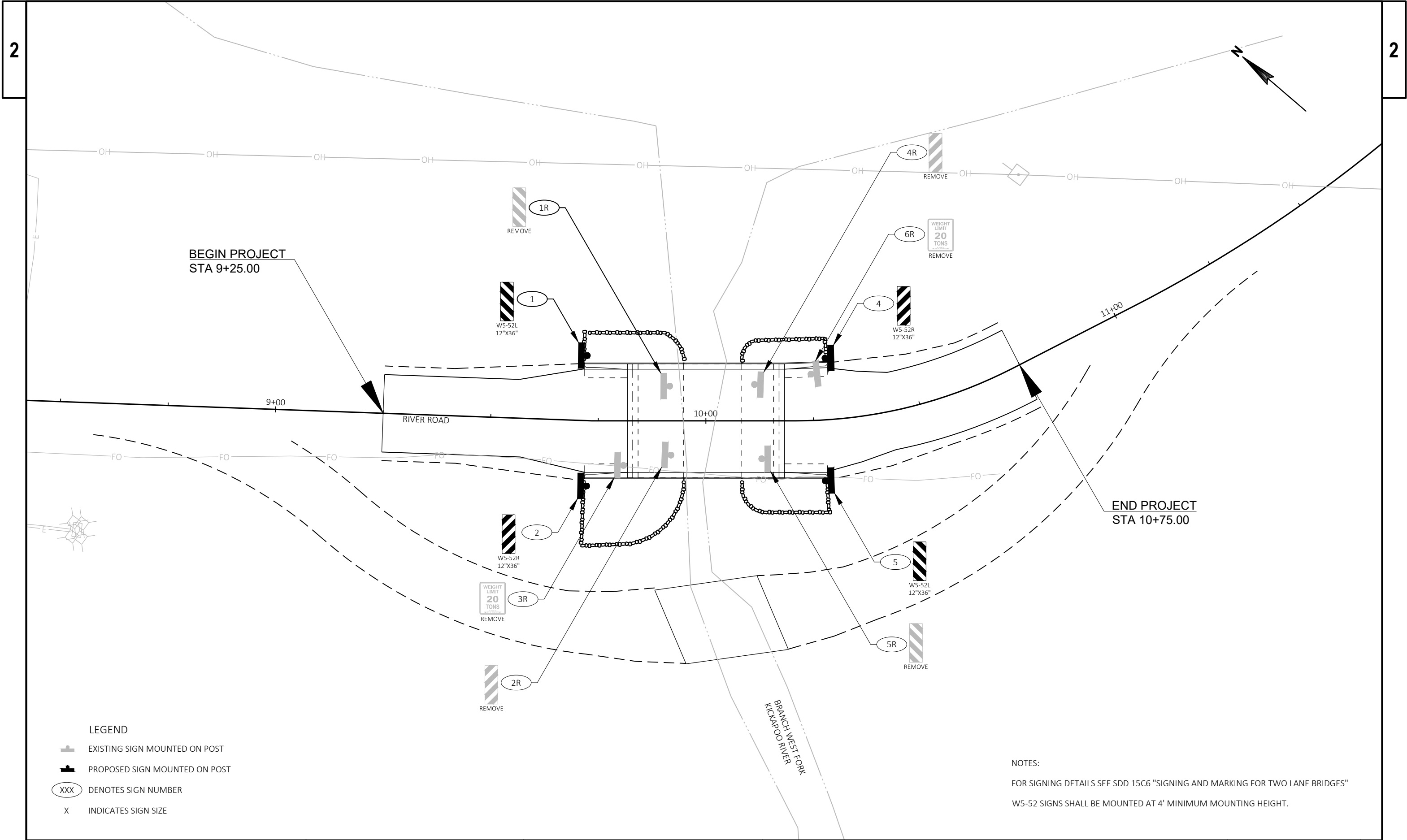
TYPICAL SECTION
TEMPORARY BYPASS



FILTER BERM







Estimate Of Quantities

5289-00-73

Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+02	LS	1.000	1.000
0004	205.0100	Excavation Common **P**	CY	399.000	399.000
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-62-253	LS	1.000	1.000
0008	208.0100	Borrow **P**	CY	239.000	239.000
0010	210.1500	Backfill Structure Type A	TON	230.000	230.000
0012	213.0100	Finishing Roadway (project) 01. 5289-00-73	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	17.000	17.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	287.000	287.000
0018	455.0605	Tack Coat	GAL	18.000	18.000
0020	465.0105	Asphaltic Surface	TON	50.000	50.000
0022	502.0100	Concrete Masonry Bridges	CY	136.000	136.000
0024	502.3200	Protective Surface Treatment	SY	98.000	98.000
0026	502.3210	Pigmented Surface Sealer	SY	48.000	48.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	3,420.000	3,420.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	18,340.000	18,340.000
0032	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0034	520.2012	Culvert Pipe Temporary 12-Inch	LF	52.000	52.000
0036	526.0100	Temporary Structure (station) 01. 10+00BP	LS	1.000	1.000
0038	550.0020	Pre-Boring Rock or Consolidated Materials	LF	104.000	104.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	120.000	120.000
0042	606.0400	Riprap Extra-Heavy	CY	155.000	155.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0046	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5289-00-73	EACH	1.000	1.000
0048	619.1000	Mobilization	EACH	1.000	1.000
0050	624.0100	Water	MGAL	10.000	10.000
0052	625.0500	Salvaged Topsoil	SY	371.000	371.000
0054	627.0200	Mulching	SY	1,512.000	1,512.000
0056	628.1504	Silt Fence	LF	569.000	569.000
0058	628.1520	Silt Fence Maintenance	LF	569.000	569.000
0060	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0064	628.2006	Erosion Mat Urban Class I Type A	SY	195.000	195.000
0066	628.2008	Erosion Mat Urban Class I Type B	SY	128.000	128.000
0068	628.6005	Turbidity Barriers	SY	81.000	81.000
0070	629.0210	Fertilizer Type B	CWT	1.100	1.100
0072	630.0120	Seeding Mixture No. 20	LB	10.000	10.000
0074	630.0200	Seeding Temporary	LB	23.000	23.000

Estimate Of Quantities

5289-00-73

Line	Item	Item Description	Unit	Total	Qty
0076	631.1100	Sod Erosion Control	SY	55.000	55.000
0078	633.1100	Delineators Temporary	EACH	24.000	24.000
0080	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0082	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0084	638.2602	Removing Signs Type II	EACH	6.000	6.000
0086	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0088	642.5001	Field Office Type B	EACH	1.000	1.000
0090	643.0300	Traffic Control Drums	DAY	2,556.000	2,556.000
0092	643.0420	Traffic Control Barricades Type III	DAY	1,136.000	1,136.000
0094	643.0705	Traffic Control Warning Lights Type A	DAY	568.000	568.000
0096	643.0715	Traffic Control Warning Lights Type C	DAY	1,278.000	1,278.000
0098	643.0900	Traffic Control Signs	DAY	2,272.000	2,272.000
0100	643.5000	Traffic Control	EACH	1.000	1.000
0102	645.0105	Geotextile Type C	SY	482.000	482.000
0104	645.0111	Geotextile Type DF Schedule A	SY	40.000	40.000
0106	650.4500	Construction Staking Subgrade	LF	477.000	477.000
0108	650.5000	Construction Staking Base	LF	150.000	150.000
0110	650.6500	Construction Staking Structure Layout (structure) 01. B-62-253	LS	1.000	1.000
0112	650.9910	Construction Staking Supplemental Control (project) 01. 5289-00-73	LS	1.000	1.000
0114	650.9920	Construction Staking Slope Stakes	LF	477.000	477.000
0116	690.0150	Sawing Asphalt	LF	36.000	36.000
0118	715.0502	Incentive Strength Concrete Structures	DOL	816.000	816.000
0120	SPV.0035	Special 01. Open Graded Filter	CY	34.000	34.000
0122	SPV.0085	Special 01. Seed Mixture, Range Pasture	LB	14.000	14.000
0124	SPV.0195	Special 01. Filter Berm	TON	2.000	2.000

Division	From/To Station	Location	205.0100 Common Excavation (1)	Salvaged/Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate +/- (6)	Waste	208.0100 Borrow	Comment:
			Cut (2)				Factor 1.25				
Division 1											
1	8+42 - 9+85	Construct Temporary Bypass	31	0	31	182	227	-196	0	196	
1	10+17 - 11+55	Construct Temporary Bypass	19	0	19	50	62	-43	0	43	
Division 1 Subtotal			50	0	50	232	289	-239	0	239	SEE NOTE 15
Division 2											
2	9+25 - 9+71	River Road	44	0	44	4	5	39	39	0	
2	10+17 - 10+75	River Road	38	0	38	2	3	35	35	0	
Division 2 Subtotal			82	0	82	7	8	74	74	0	SEE NOTE 16
Division 3											
3	10+29.21/09+84.71	Remove Temporary Bypass	200	0	200	17	21	179	179	0	
3	08+41.64/11+54.55	Remove Temporary Bypass	67	0	67	5	6	60	60	0	
Division 3 Subtotal			267	0	267	22	27	240	240	0	SEE NOTE 17
Grand Total			399	0	399	260	325	74	313	239	
Total Common Excavation			399								

Notes:

- (1) Item number 205.0100
- (2) Salvaged/Unsuable Pavement Material is included in Cut.
- (3) Salvaged/Unusable Pavement Material
- (4) Available Material = Cut - Salvaged/Unusuable Pavement Material
- (5) Expanded Fill Factor = 1.25
- Depending on selections:

Expanded Fill = (Unexpanded Fill) * Fill Factor
- (6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
- (15) No Borrow Needed
- (16) Use 74 CY of material from Division 2. Borrow Excavation item number 208.0100
- (17) Use 240 CY of material from Division 3. Borrow Excavation item number 208.0100

PAY PLAN QUANTITY

FINISHING ROADWAY (5289-00-73)

	213.0100 EACH
RIVER ROAD	1
TOTAL	1

BASE AGGREGATE DENSE			305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
STATION	- STATION	LOCATION		
8+42 BP	- 9+88 BP	TEMPORARY BYPASS MAINLINE	--	62
8+42 BP	- 9+88 BP	TEMPORARY BYPASS SHOULDER	--	6
10+12 BP	- 11+54 BP	TEMPORARY BYPASS MAINLINE	--	62
10+12BP	- 11+54 BP	TEMPORARY BYPASS SHOULDER	--	6
9+25	- 9+81	MAINLINE	--	56
9+25	- 9+71	SHOULDER	6	12
10+18	- 10+75	MAINLINE	--	56
10+29	- 10+75	SHOULDER	6	12
UNDISTRIBUTED			5	15
TOTALS			17	287

3

ASPHALTIC ITEMS					TEMPORARY STRUCTURE (STA 10+00BP)		EROSION CONTROL ITEMS										
STATION - STATION			LOCATION		465.0105 ASPHALTIC SURFACE TON	455.0605 TACK COAT GAL	STATION - STATION		526.0100 LS	STATION - STATION		LOCATION	628.1504 SILT FENCE LF	628.1520 MAINTENANCE LF	628.1905 EROSION CONTROL EACH	628.1910 EMERGENCY EROSION CONTROL EACH	628.6005 TURBIDITY BARRIERS SY
9+25	-	9+82	MAINLINE		25	9	8+98	-	10+04	LT/RT	185	185	-	-	-	-	-
10+18	-	10+75	MAINLINE		25	9	9+86	-	10+07	LT/RT	-	-	-	-	-	-	70
							10+05	-	11+41	LT/RT	310	310	-	-	-	-	-
							8+98	-	11+41	-	-	-	4	2	-	-	-
TOTALS					50	18	TOTAL			1	UNDISTRIBUTED		74	74	-	-	11
							TOTAL			1	TOTALS		569	569	4	2	81

3

CULVERT PIPE TEMPORARY 12-INCH		
LOCATION	520.2012 LF	REMARKS
STA 9+56BP	52	REMOVAL OF PIPE AFTER TEMPORARY BYPASS REMOVAL IS INCIDENTAL
TOTAL	52	

LANDSCAPING ITEMS														
			625.0500	627.0200	628.2006	628.2008	629.0210	630.0120	630.0200	631.1100	645.0105	SPV.0085.01		
			SALVAGED	MULCHING	EROSION MAT	EROSION MAT	FERTILIZER	SEEDING	SEEDING	SOD	GEOTEXTILE	SEED MIXTURE,		
			TOPSOIL		URBAN CLASS I	URBAN CLASS I	TYPE B	MIXTURE	TEMPORARY	EROSION	TYPE C	RANGE		
STATION	-	STATION	SY	SY	TYPE A	TYPE B	CWT	NO. 20	LB	CONTROL	SY	PASTURE	LB	COMMENTS
9+25	-	9+71	LT	70	70	-	18	0.1	2	2	-	-	-	
9+25	-	9+72	RT	102	102	-	79	0.1	3	3	-	-	-	
10+27	-	10+75	RT	80	80	-	9	0.1	2	2	-	-	-	
10+29	-	10+75	LT	57	57	-	-	0.1	2	2	-	-	-	
8+42 BP	-	9+91 BP	RT	-	-	68	-	0.1	-	4	-	-	-	CONSTRUCT TEMPORARY BYPASS
8+86 BP	-	9+91 BP	LT	-	-	55	-	0.1	-	3	-	-	-	CONSTRUCT TEMPORARY BYPASS
10+12 BP	-	11+22 BP	LT	-	-	22	-	0.1	-	2	-	-	-	CONSTRUCT TEMPORARY BYPASS
10+12 BP	-	11+22 BP	RT	-	-	17	-	0.1	-	2	-	-	-	CONSTRUCT TEMPORARY BYPASS
10+12 BP	-	10+50 BP		-	-	-	-	-	-	-	-	273	-	
9+20 BP	-	9+88 BP		-	-	-	-	-	-	-	25	129	-	
8+42 BP	-	9+91 BP	RT	-	532	-	-	-	-	-	25	-	6	REMOVE TEMPORARY BYPASS
10+11 BP	-	11+13 BP	LT	-	419	-	-	-	-	-	-	-	5	REMOVE TEMPORARY BYPASS
UNDISTRIBUTED				62	252	33	21	0.3	2	4	5	80	3	
TOTALS				371	1,512	195	128	1.1	10	23	55	482	14	

PROJECT NO: 5289-00-73	HWY: RIVER ROAD	COUNTY: VERNON	MISCELLANEOUS QUANTITIES	SHEET	E
------------------------	-----------------	----------------	--------------------------	-------	---

3

SIGNING ITEMS									
SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	634.0614	637.2230	638.2602	638.3000	SIGN MESSAGE
					POSTS WOOD 4X6-INCH X 14-FT	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	
					EACH	SF	EACH	EACH	
1	9+72	LT	W5-52L	12 X 36	1	3.00	--	--	OBJECT MARKER
1R	9+92	LT			--	--	1	1	OBJECT MARKER
2	9+73	RT	W5-52R	12 X 36	1	3.00	--	--	OBJECT MARKER
2R	9+92	RT			--	--	1	1	OBJECT MARKER
3R	9+81	RT			--	--	1	1	WEIGHT LIMIT 20 TONS
4	10+29	LT	W5-52R	12 X 36	1	3.00	--	--	OBJECT MARKER
4R	10+11	LT			--	--	1	1	OBJECT MARKER
5	10+27	RT	W5-52L	12 X 36	1	3.00	--	--	OBJECT MARKER
5R	10+13	RT			--	--	1	1	OBJECT MARKER
6R	10+25	LT			--	--	1	1	WEIGHT LIMIT 20 TONS
TOTALS					4	12	6	6	

WATER	
LOCATION	624.0100 MGAL
BASE COMPACTION	10
TOTAL	10

FIELD OFFICE TYPE B

	642.5001 EACH
PROJECT	1
TOTAL	1

TRAFFIC CONTROL ITEMS

LOCATION	633.1100	643.0300	643.0420	643.0705	643.0715	643.0900
	DELINEATORS TEMPORARY EACH	DRUMS DAYS	BARRICADES TYPE III DAYS	WARNING LIGHTS TYPE A DAYS	WARNING LIGHTS TYPE C DAYS	SIGNS DAYS
BEGINNING OF PROJECT	12	1278	568	284	639	1,136
END OF PROJECT	12	1278	568	284	639	1,136
TOTALS	24	2,556	1,136	568	1,278	2,272

SAWING PAVEMENT

STATION	LOCATION	690.0150 ASPHALT LF
9+25	MAINLINE	18
10+75	MAINLINE	18
TOTALS		36

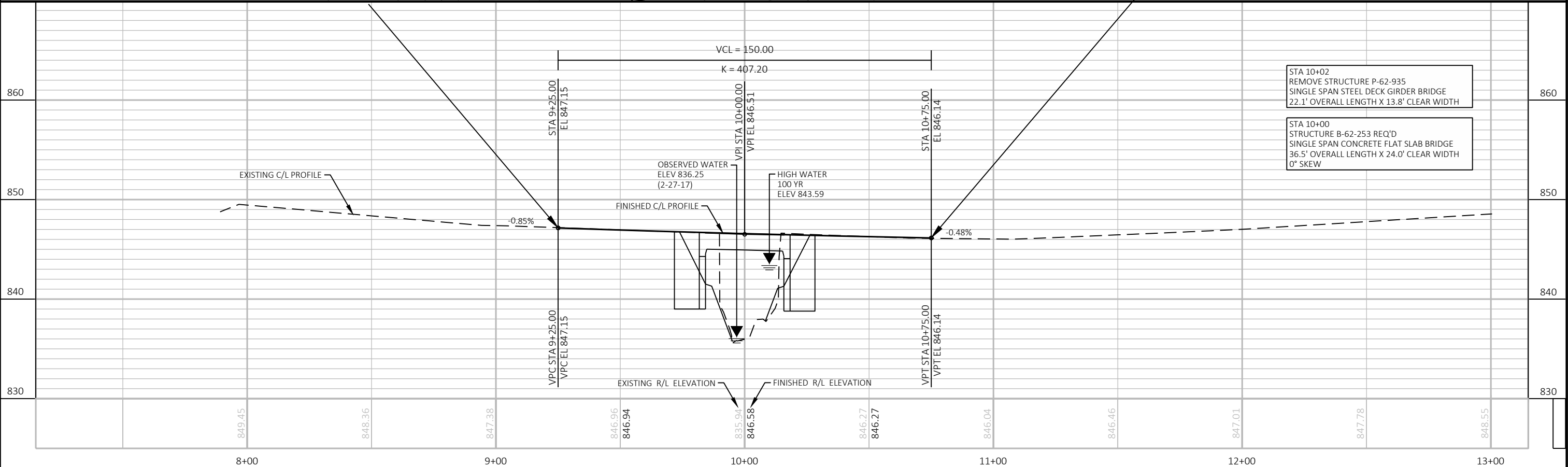
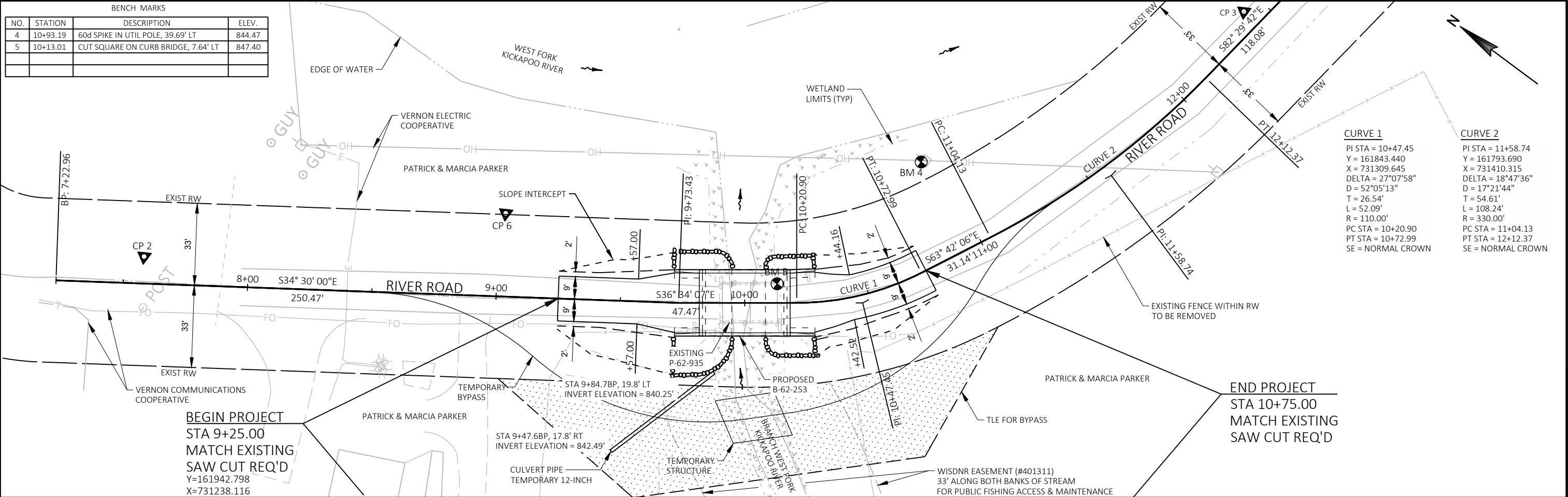
CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500	650.5000	CAT 0020 650.6500 STRUCTURE LAYOUT B-62-246	650.9910 SUPPLEMENTAL CONTROL 5289-00-73	650.9920 SLOPE STAKES
		SUBGRADE LF	BASE LF	LS	LS	LF
8+33 BP - 11+60 BP	TEMP. BP	327	-	-	-	327
9+25 - 10+75	MAINLINE	150	150	1	1	150
TOTALS		477	150	1	1	477

FILTER BERM

STATION	LOCATION	SPV.0195.01 TON
9+48	RT	2
TOTAL		2

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
4	10+93.19	60d SPIKE IN UTIL POLE, 39.69' LT	844.47
5	10+13.01	CUT SQUARE ON CURB BRIDGE, 7.64' LT	847.40



PROJECT NO: 5289-00-73	HWY: RIVER ROAD	COUNTY: VERNON	PLAN AND PROFILE: MAINLINE	SCALE, FEET 0 20 40	SHEET E
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TOWN

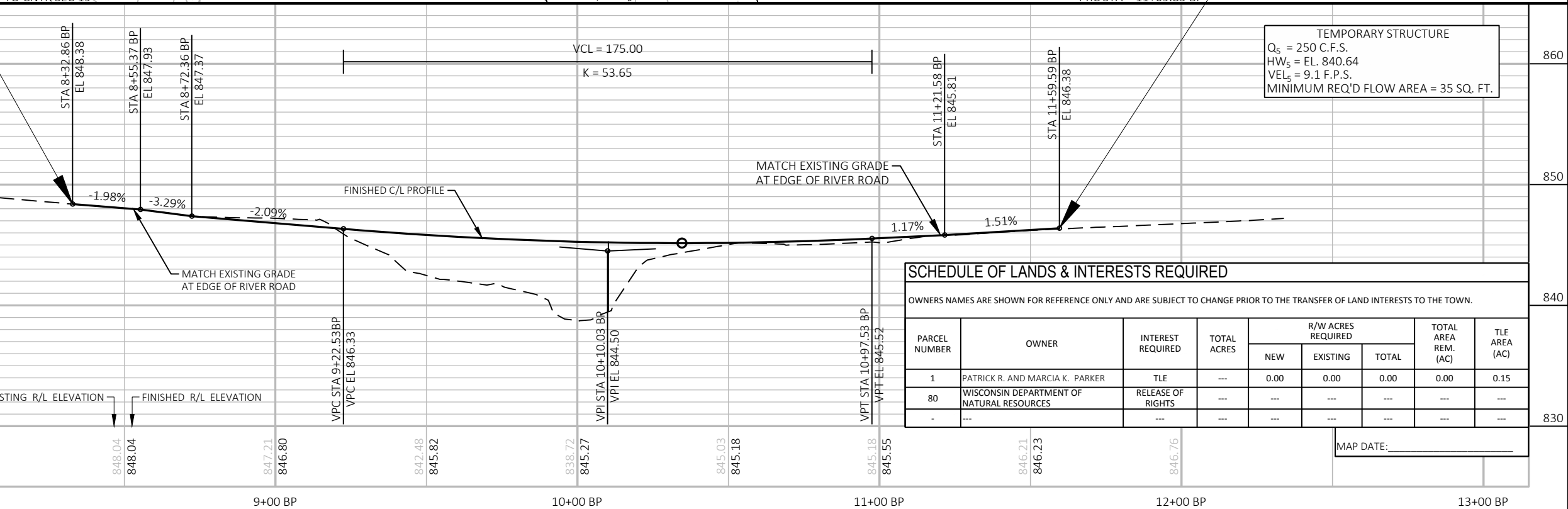
WEST FORK KICKAPOO RIVER

NOTE:
EXISTING RIGHT OF WAY IS BASED ON THE EXISTING CENTERLINE OF RIVER ROAD (WISCONSIN STATUTE 82.31)
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE

CP 3
S82° 29' 42"E
RIVER ROAD

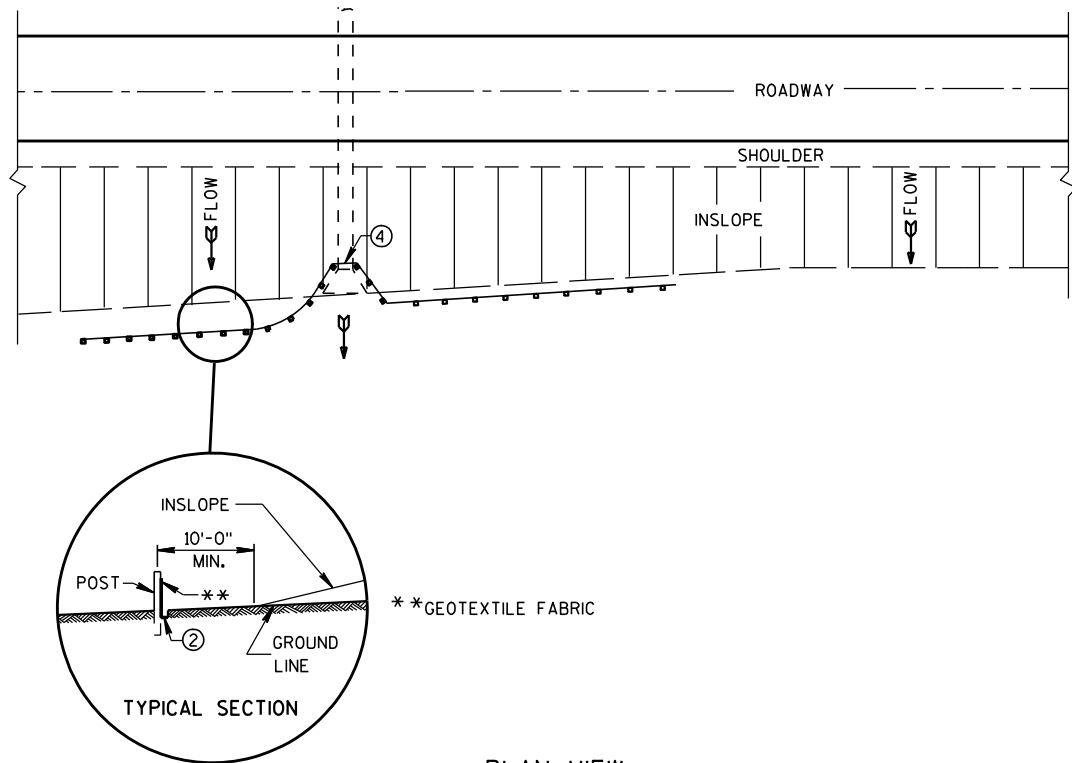
158

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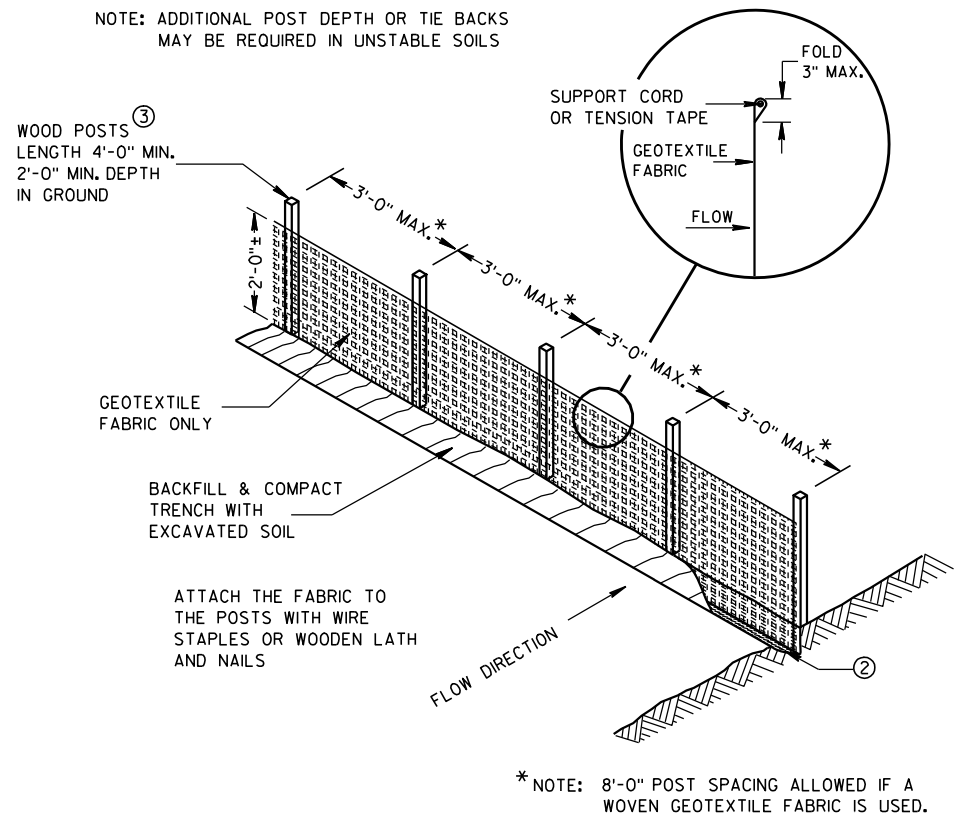
[illegible]

Standard Detail Drawing List

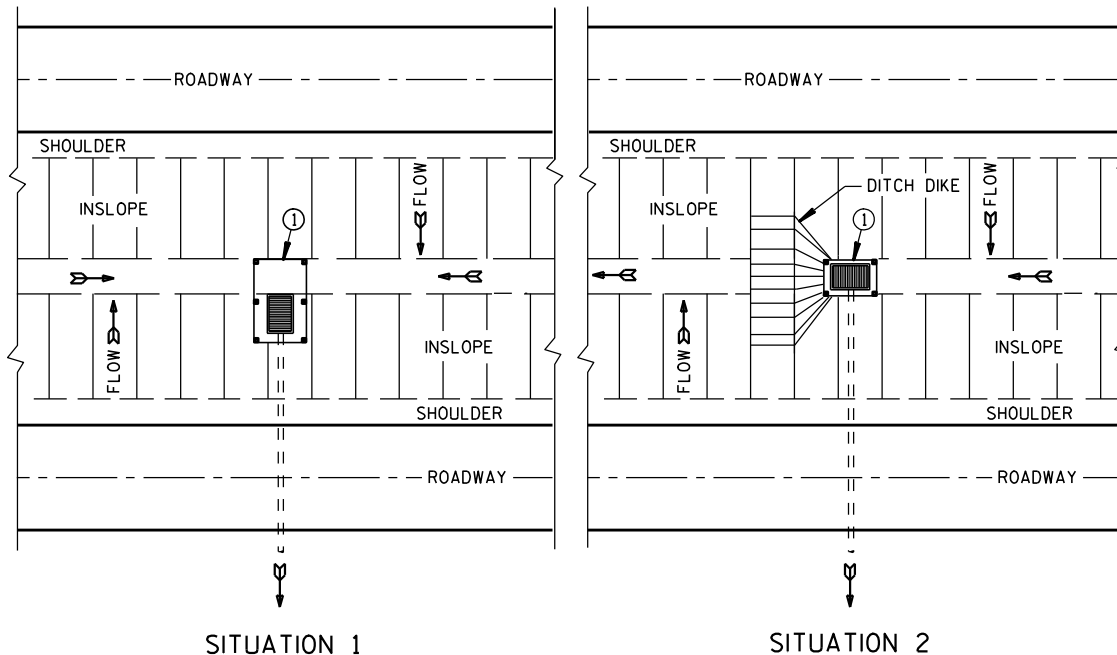
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15A04-04B	DELINEATOR POST WITH REFLECTIVE SHEETING
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D31-03	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



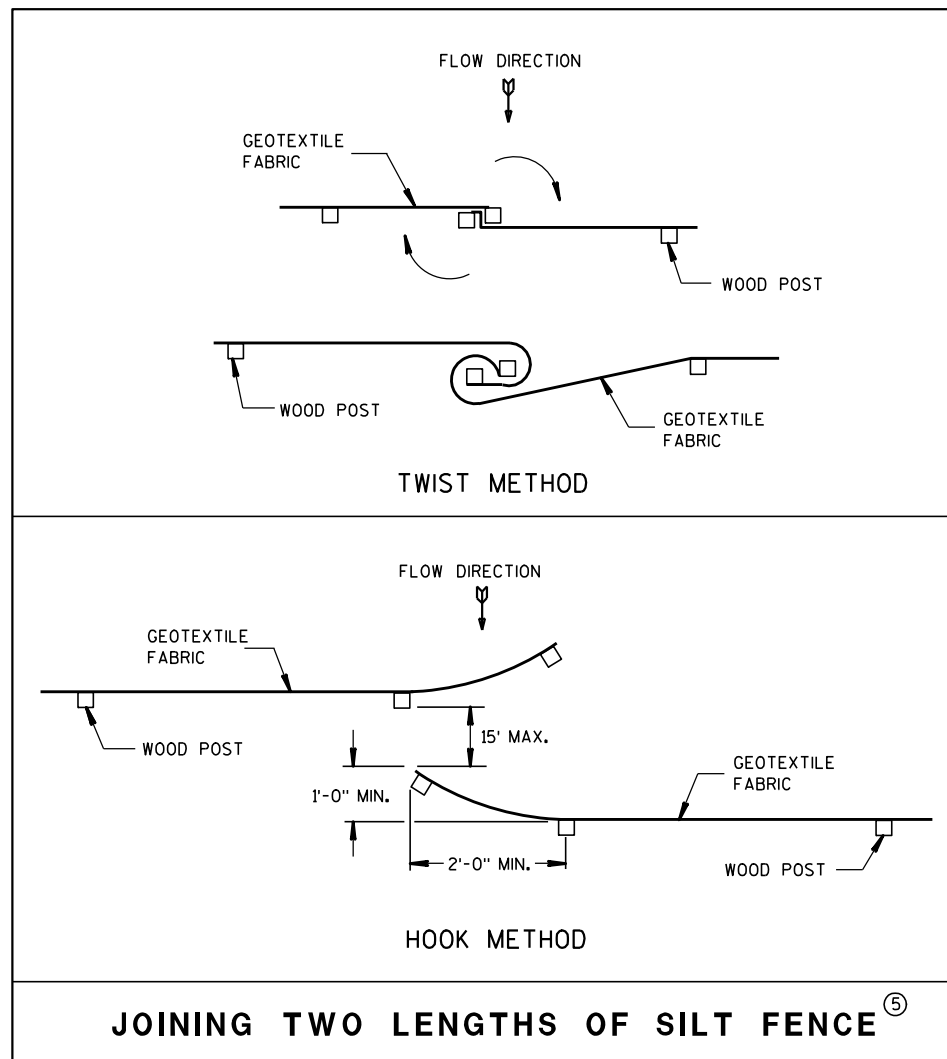
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

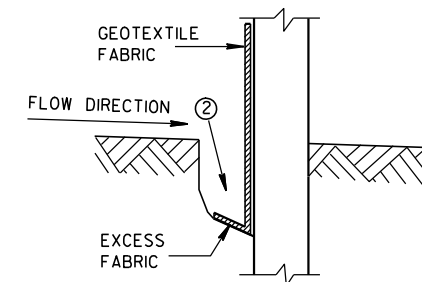


JOINING TWO LENGTHS OF SILT FENCE^⑤

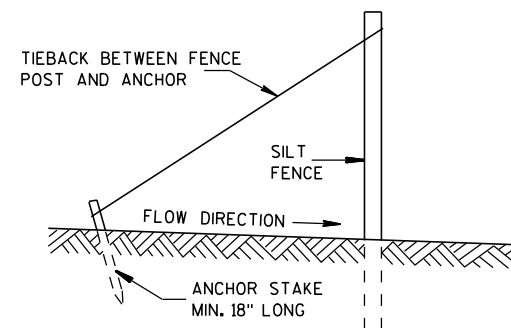
GENERAL NOTES

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.

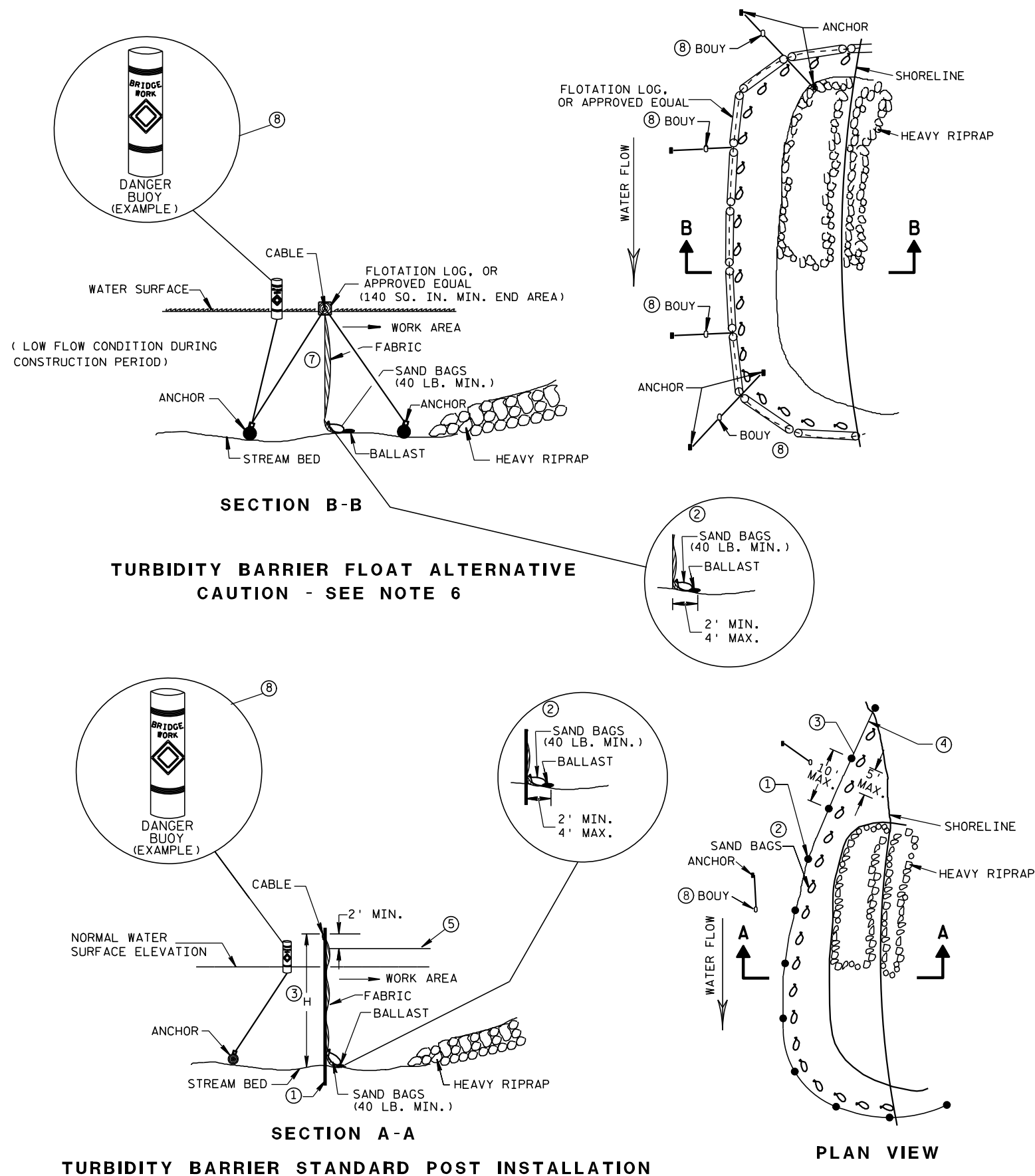


TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

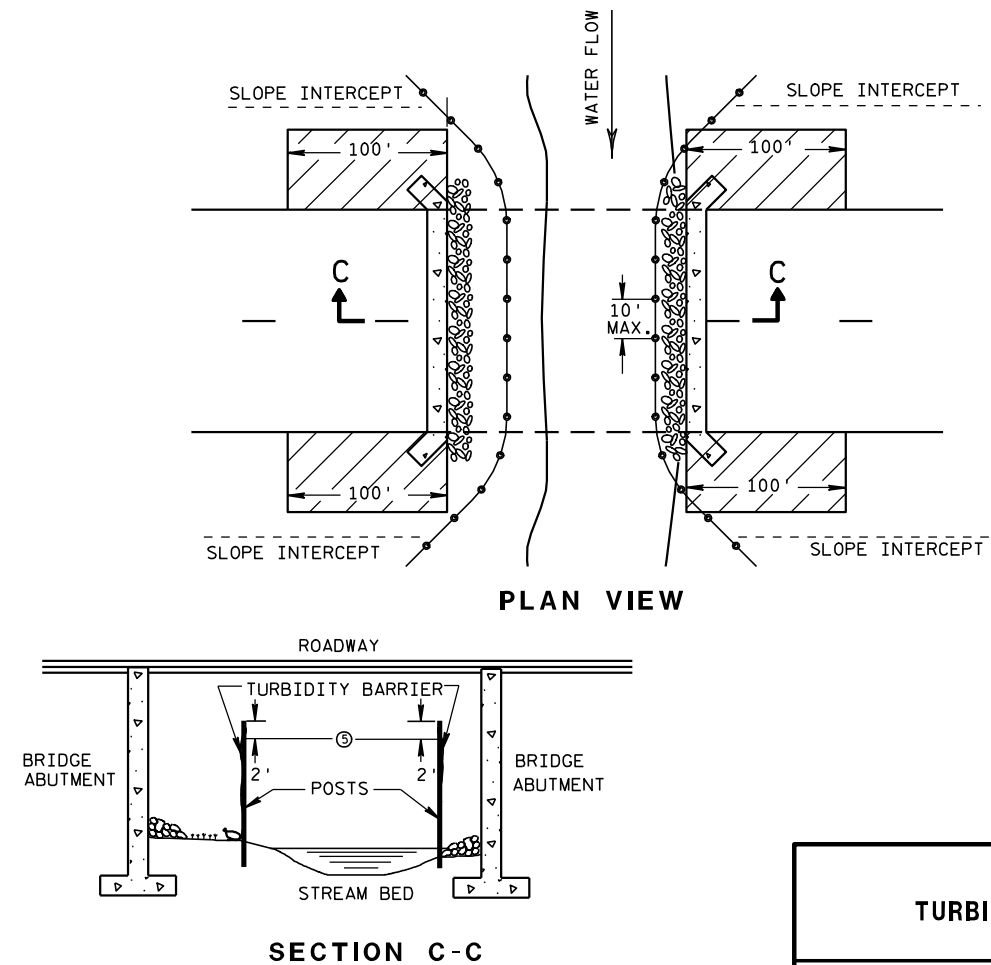


GENERAL NOTES

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

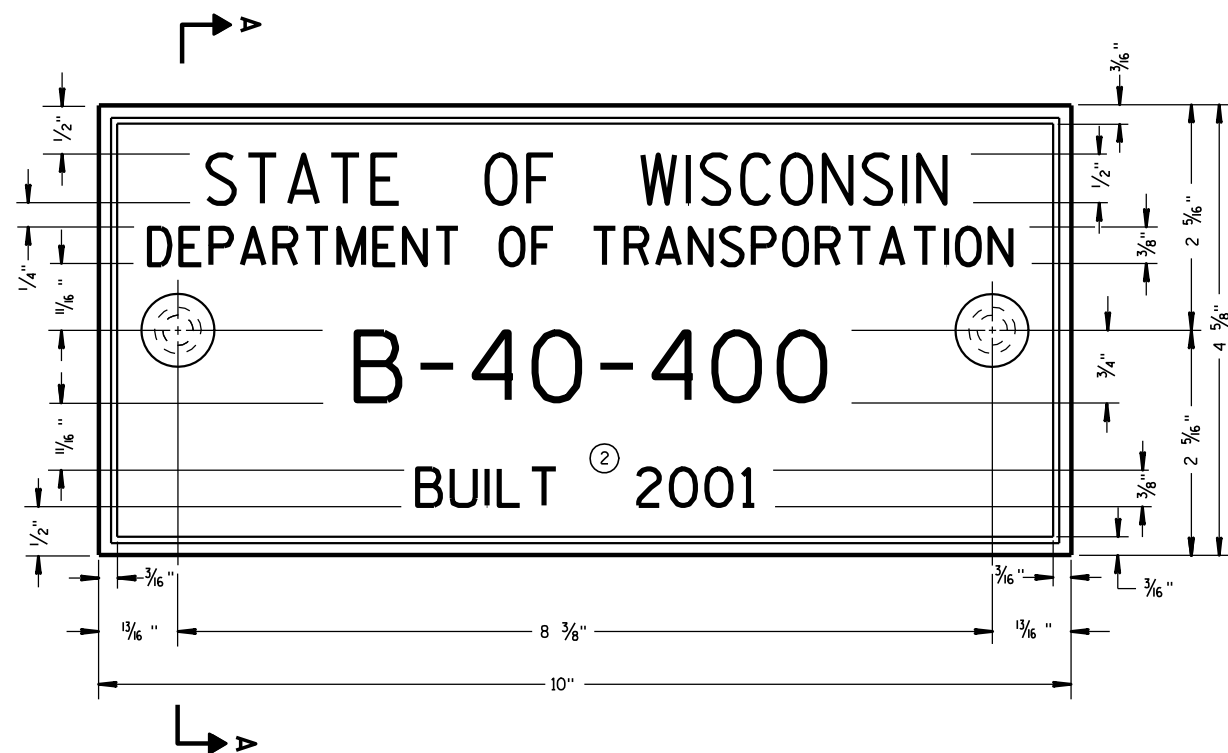
APPROVED

6/04/02

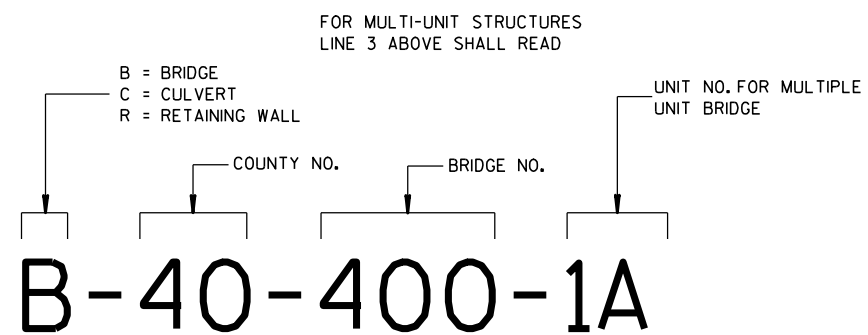
DATE

FHWA

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



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



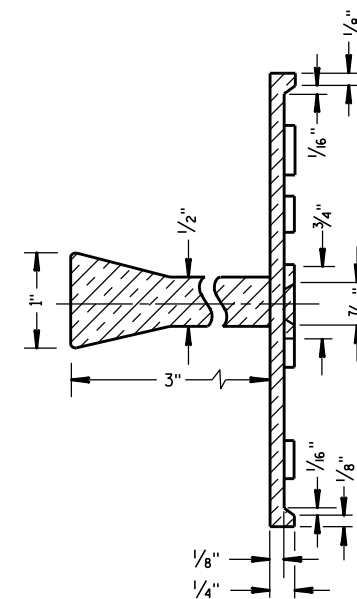
**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

GENERAL NOTES

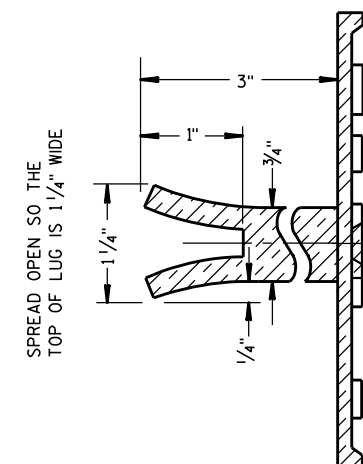
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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.

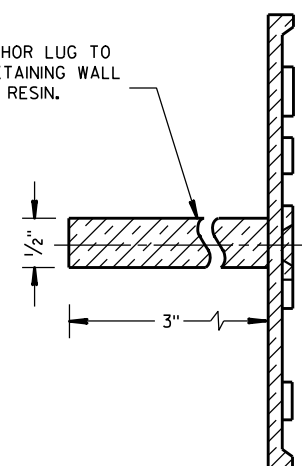


SECTION A-A



ALTERNATE LUG

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



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE
(STRUCTURES)**

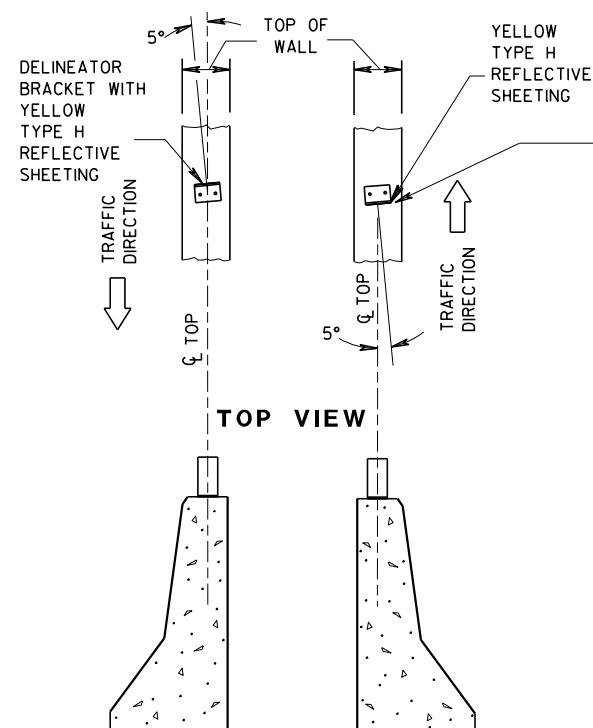
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

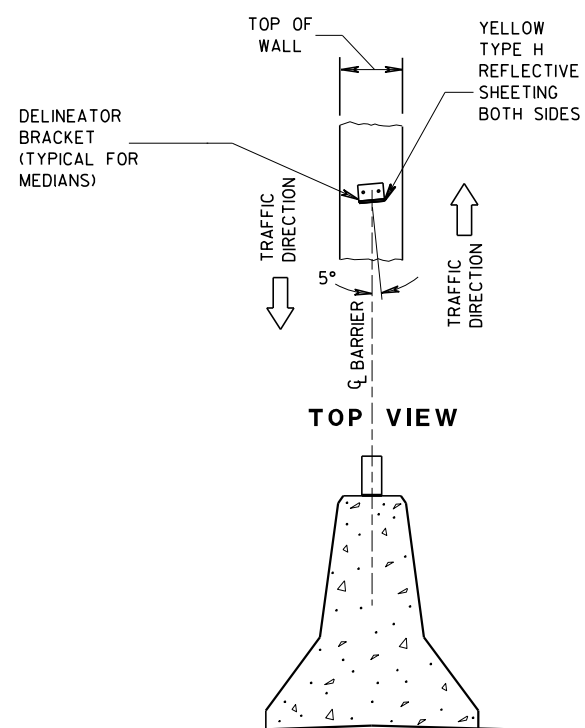
3/26/10
DATE

FHWA

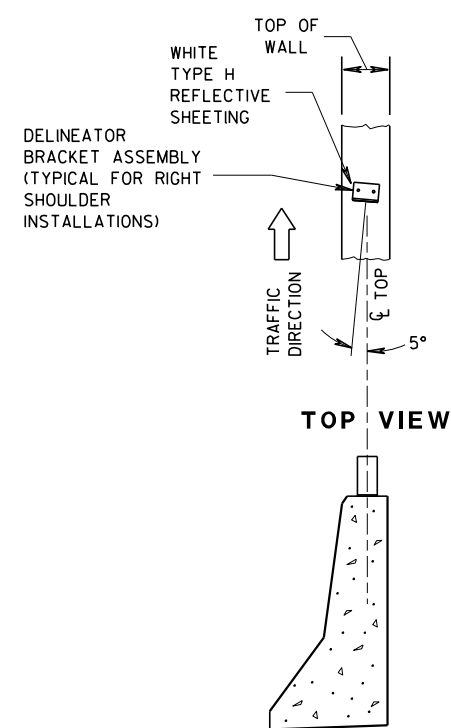
/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER



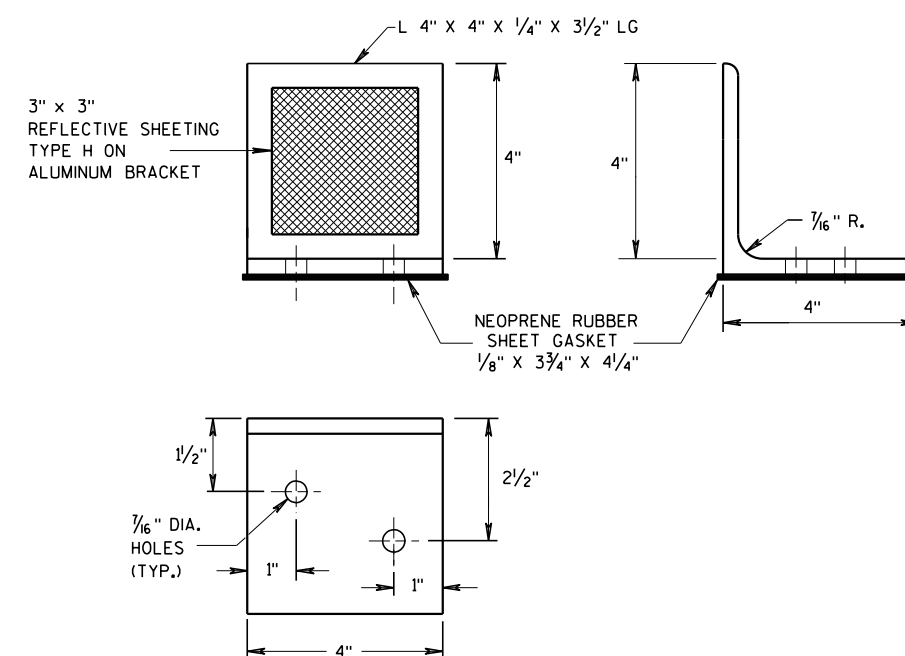
DOUBLE BARRIERS IN MEDIAN



MEDIAN BARRIER



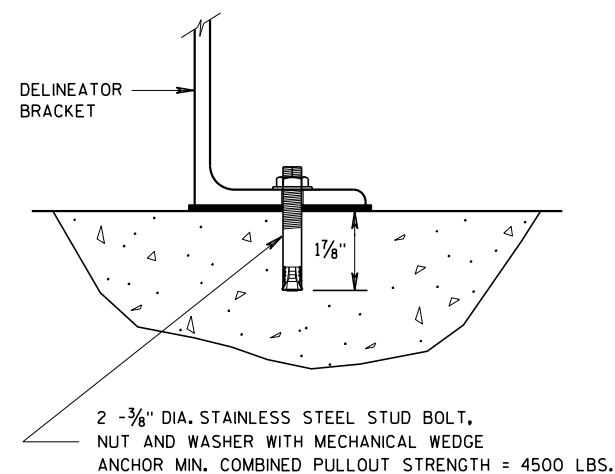
BARRIER LOCATED
TO RT. OF TRAFFIC FLOW



DELINEATOR BRACKET

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

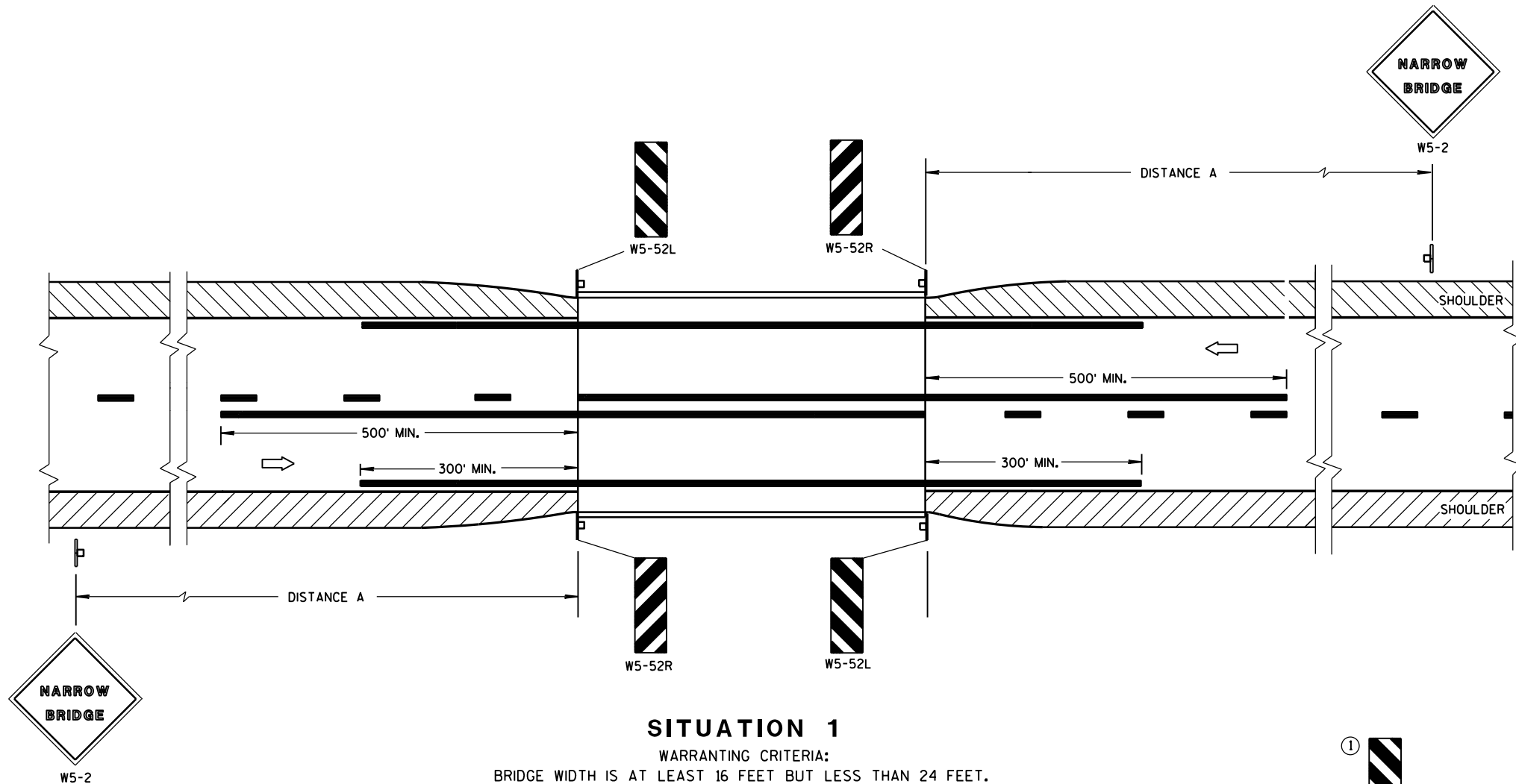


DELINEATOR BRACKET
MOUNTING DETAIL

DELINEATOR BRACKET
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

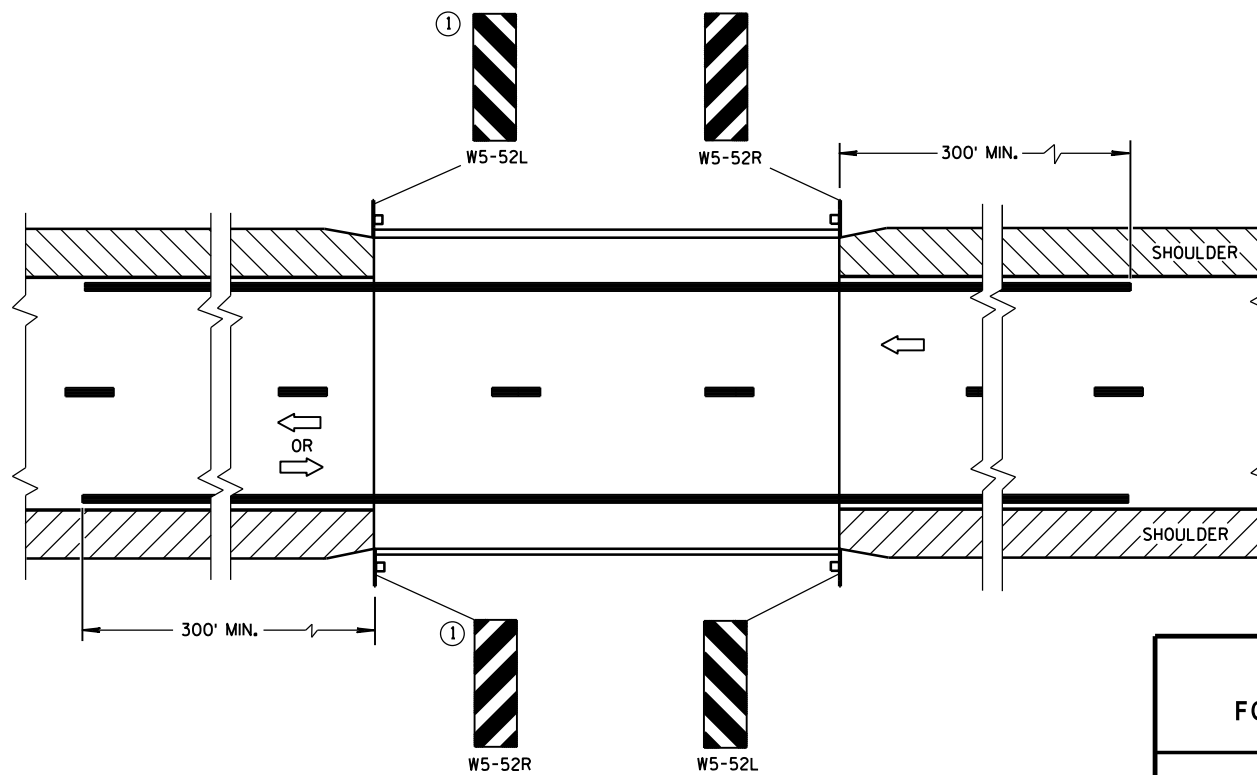
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

① OMIT ON ONE-WAY TRAVELLED WAYS.

➡ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING FOR TWO LANE BRIDGES

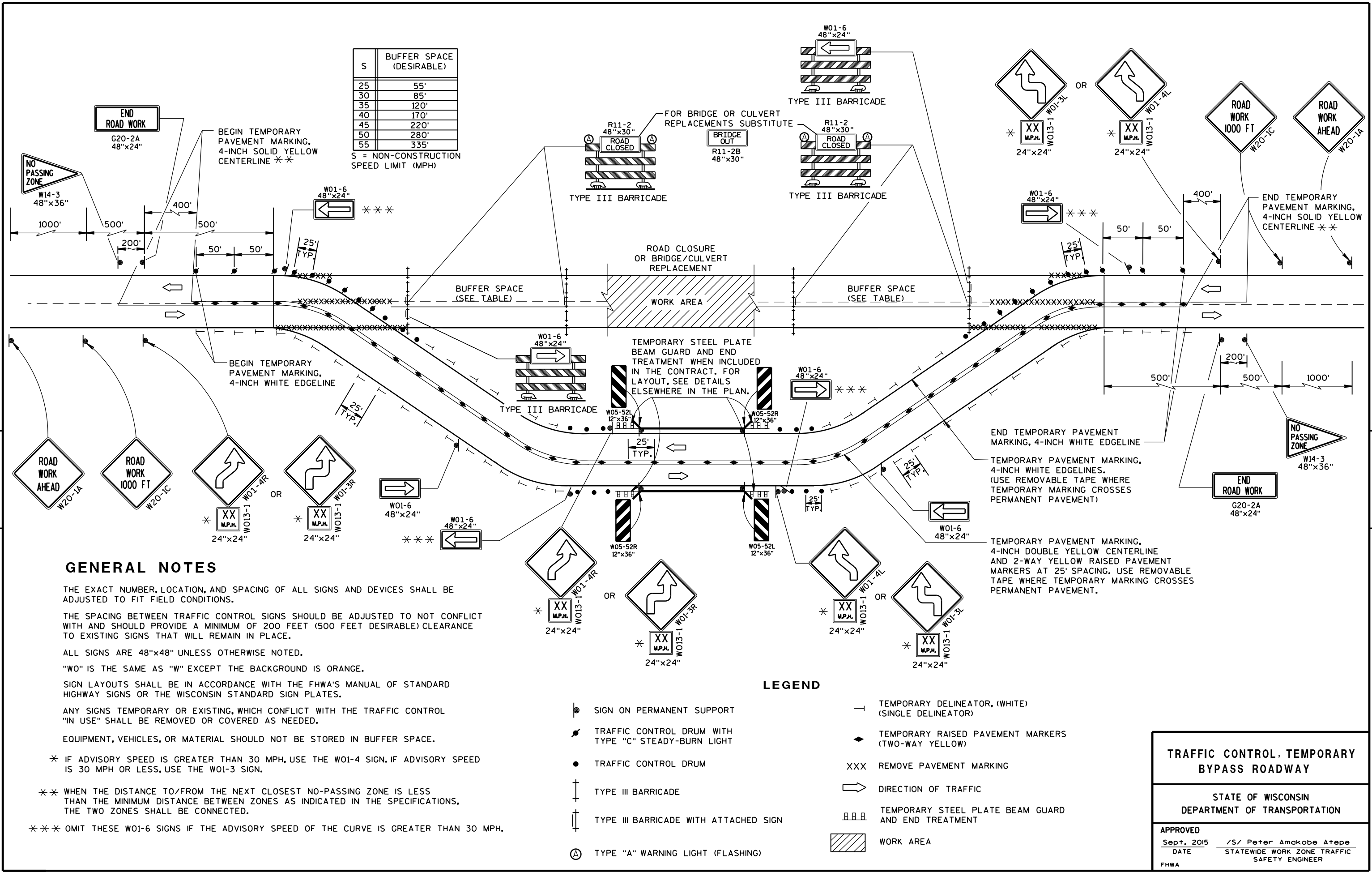
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

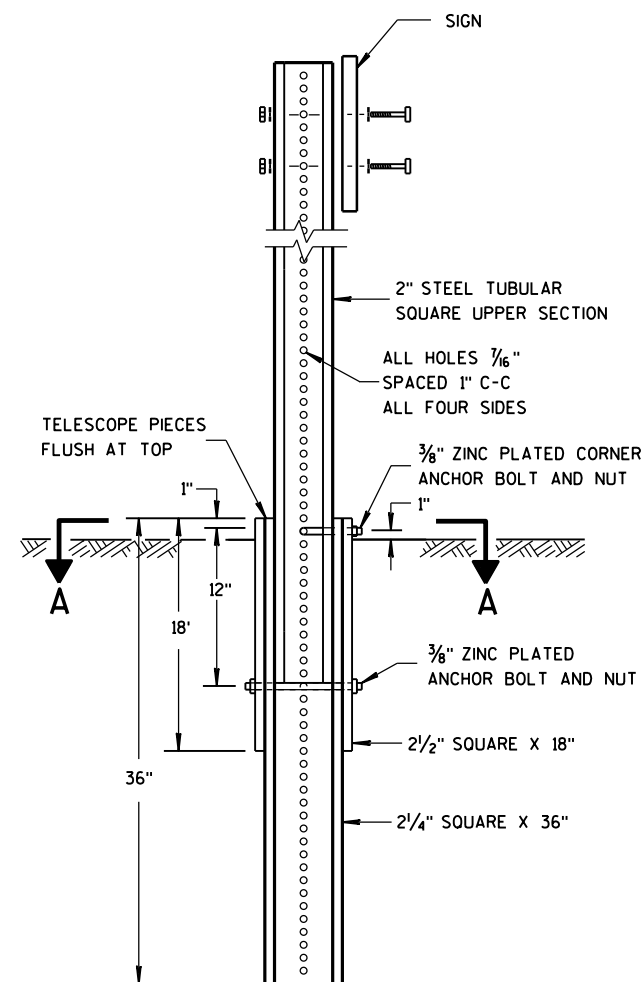
APPROVED

June 2017
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA



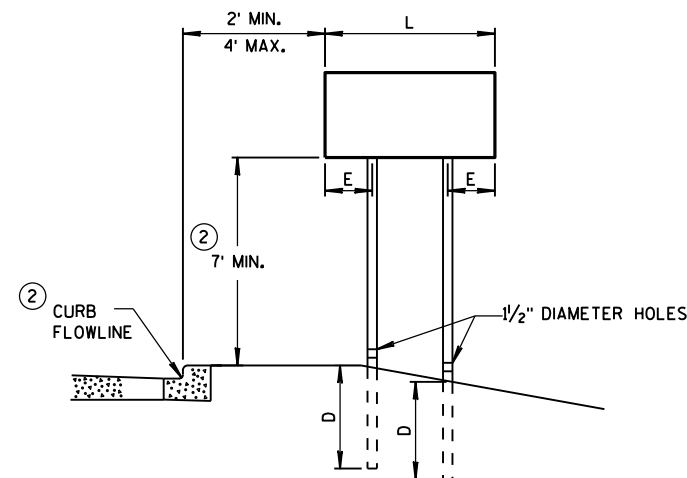
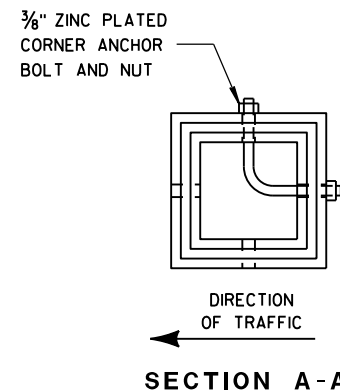


DETAIL OF TUBULAR
STEEL SIGN POST

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

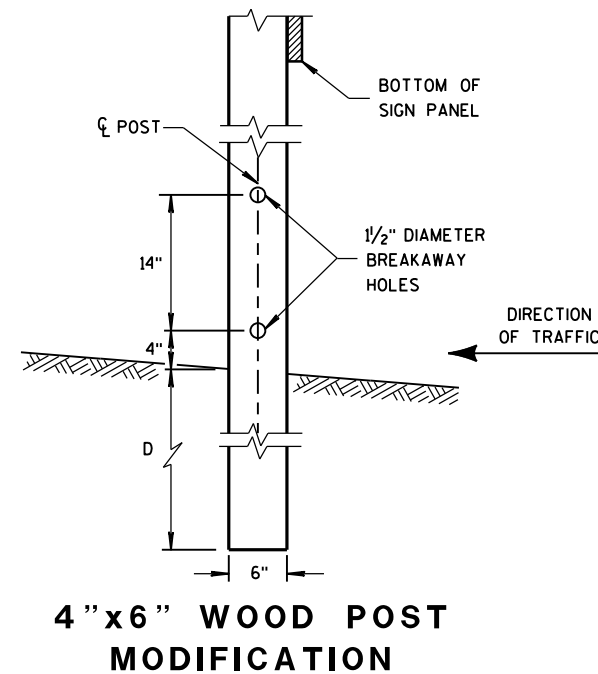
SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL
BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).
SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED
ON TUBULAR STEEL POSTS.



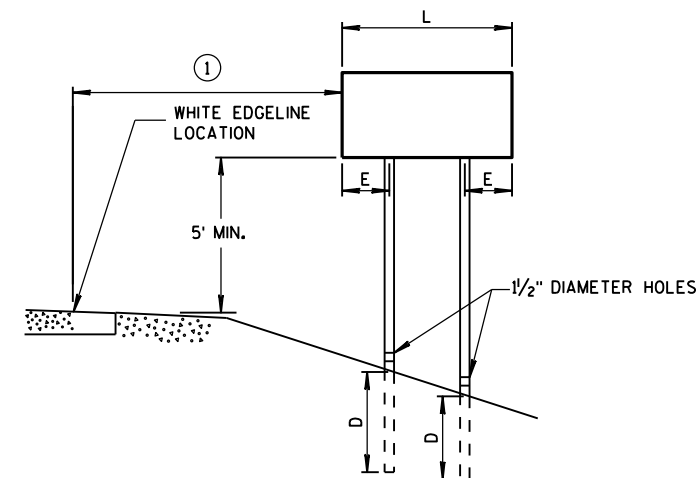
URBAN AREA

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

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

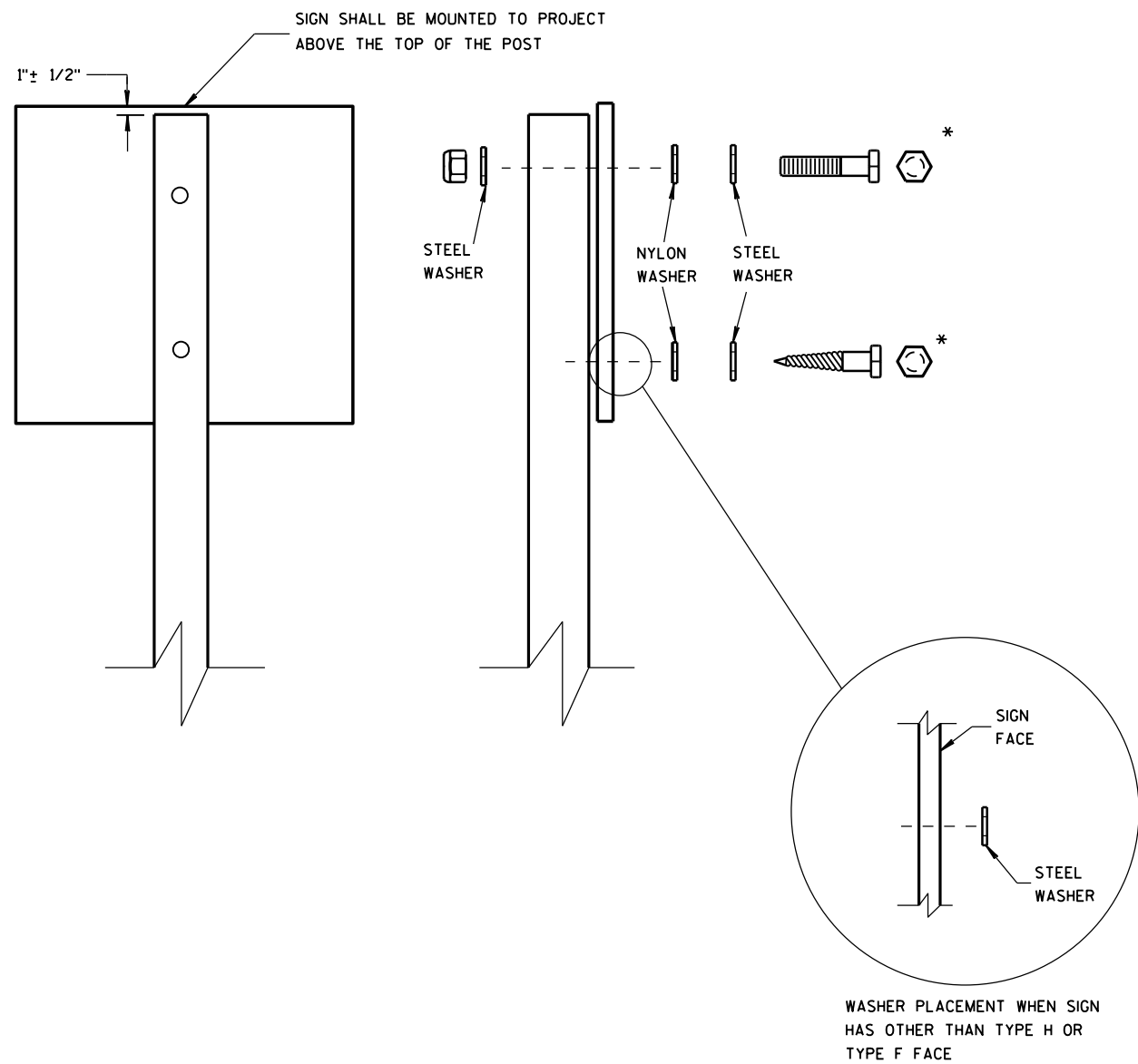
SEE NOTE ③

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

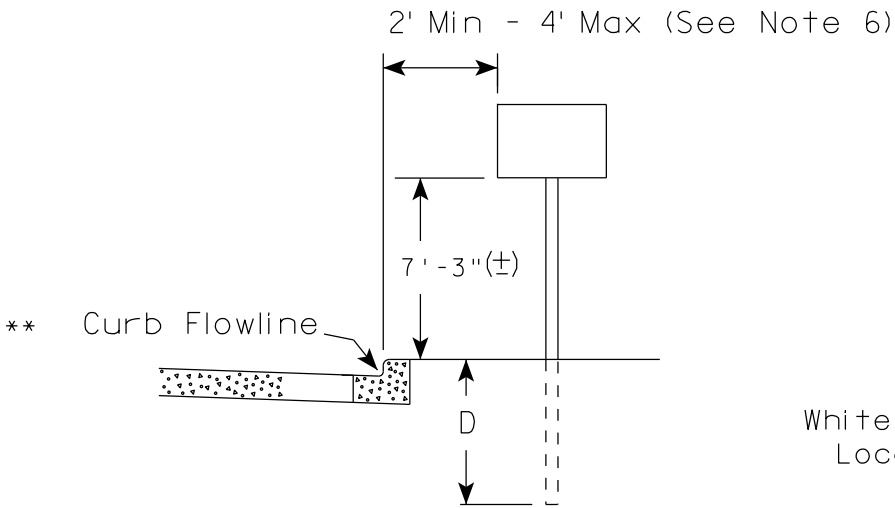
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

- 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

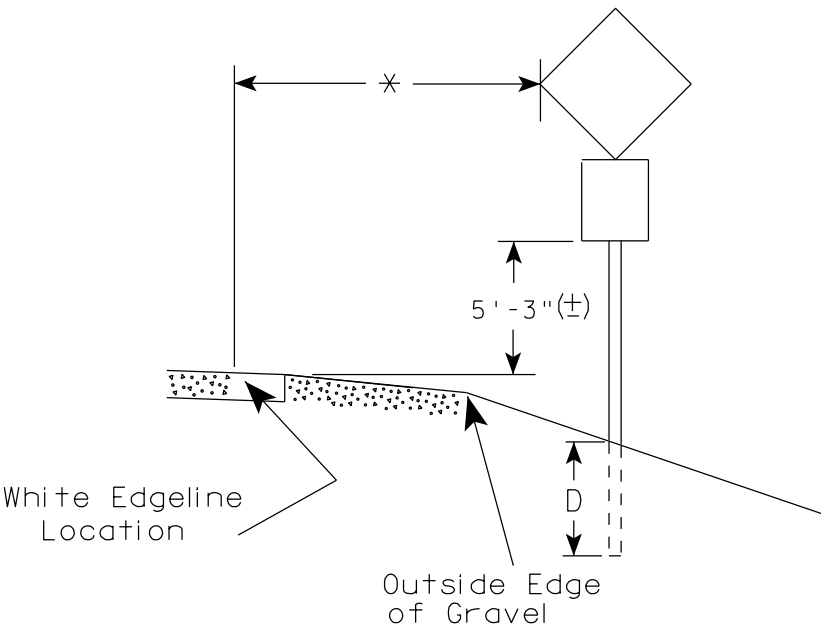
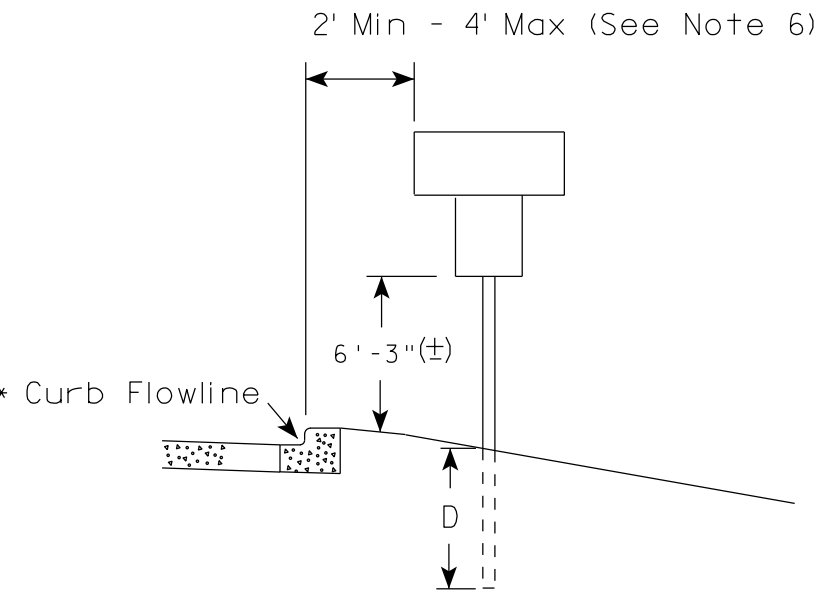
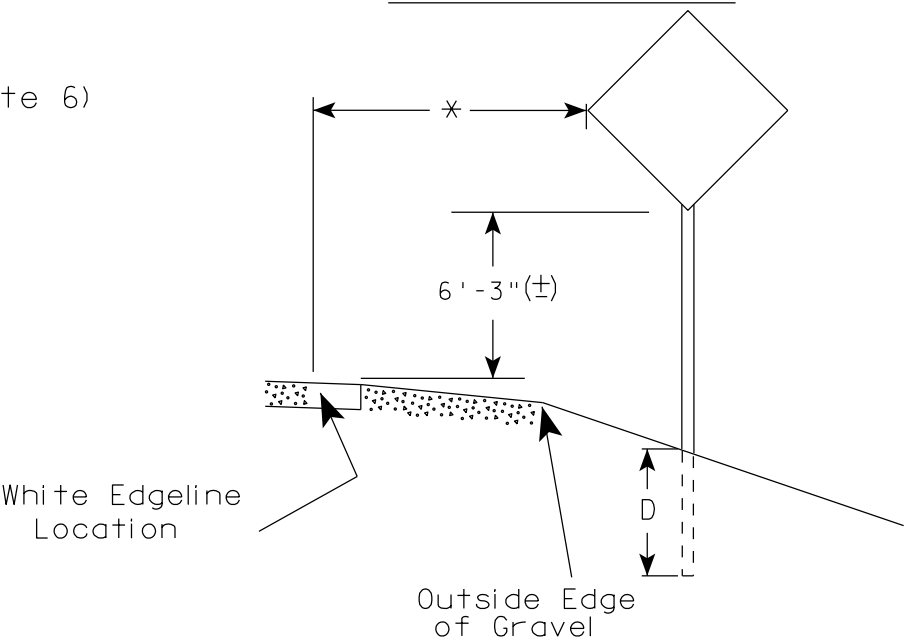
* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heldtke 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.

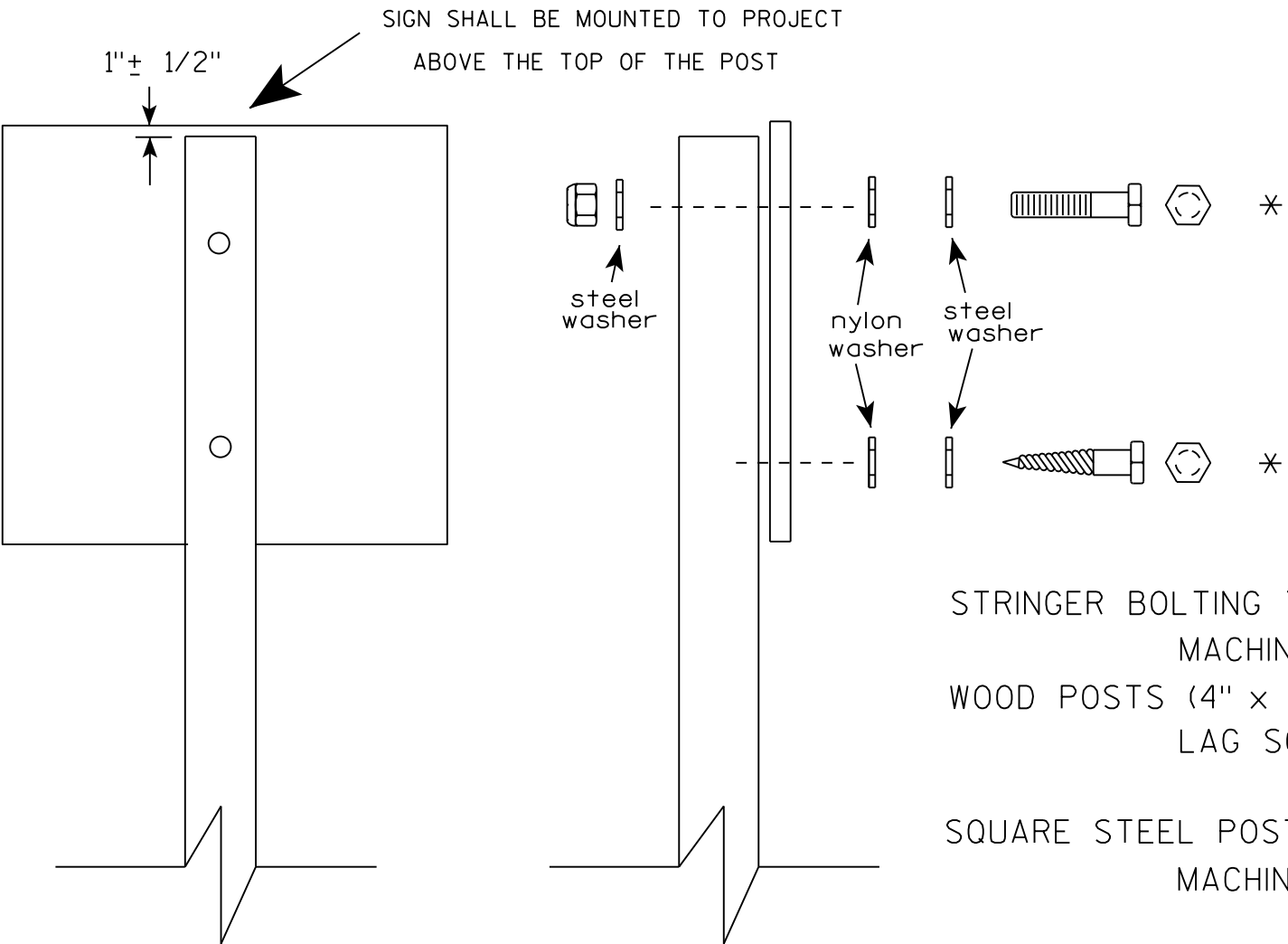
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

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 - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 - $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
 - 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

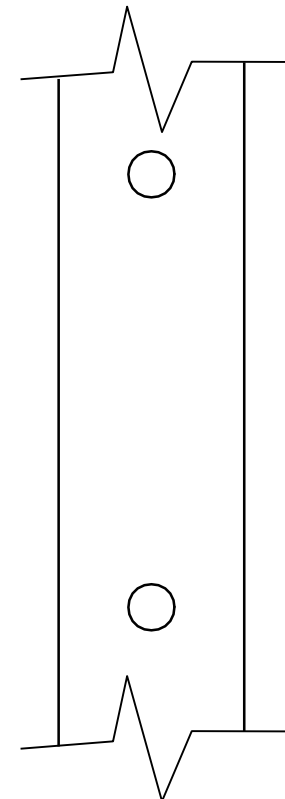
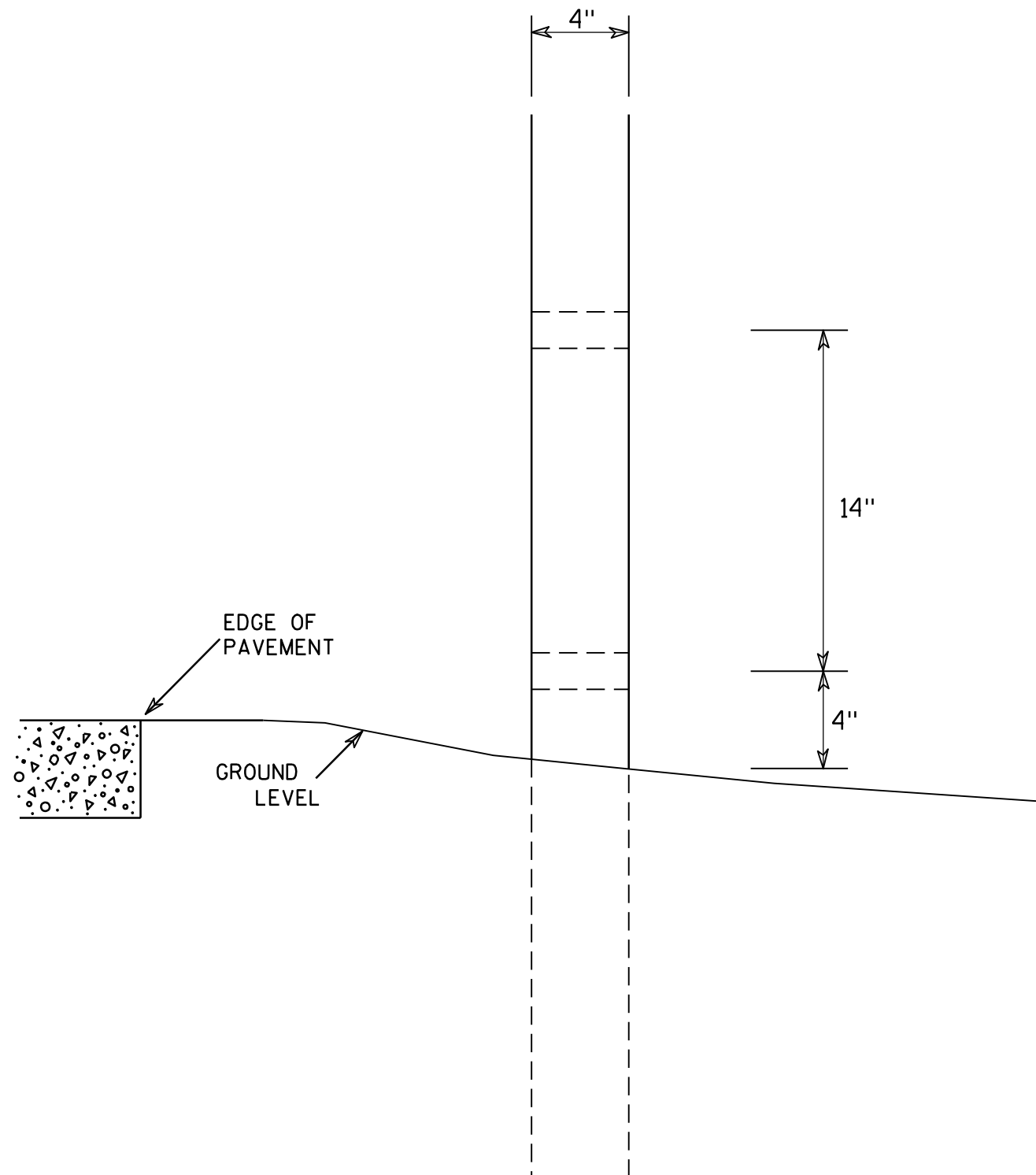
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require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

HWY:

COUNTY:

SHEET NO:

E

INDICATES WING NUMBER

STATE PROJECT NUMBER

5289-00-73

DESIGN DATA

DESIGN LOADING _____ HL-93
INVENTORY RATING FACTOR _____ 1.15
OPERATIONAL RATING FACTOR _____ 1.49
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) _____ 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

MATERIAL PROPERTIES

CONCRETE MASONRY, SUPERSTRUCTURE _____ $f'_c = 4,000$ PSI
ALL OTHER _____ $f'_c = 3,500$ PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT _____ $f_y = 60,000$ PSI

TRAFFIC DATA

ADT (2018) = 20
ADT (2038) = 20
DESIGN SPEED = 20 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB AND PREBORED A MINIMUM OF 3' INTO BEDROCK OR CONSOLIDATED MATERIAL. ESTIMATED 17' LONG AT THE WEST ABUTMENT AND 13' AT THE EAST ABUTMENT.

PREBORING SHALL BE REQUIRED TO A MINIMUM ELEVATION OF 823.51 (15') AT THE WEST ABUTMENT AND TO A MINIMUM ELEVATION OF 827.29 (11') AT THE EAST ABUTMENT.

HYDRAULIC DATA

100 YEAR FREQUENCY

$Q_{100} = 970$ C.F.S.
VEL. = 10.1 F.P.S.
HW₁₀₀ = EL. 843.59
WATERWAY AREA = 96 SQ. FT.
DRAINAGE AREA = 2.1 SQ. MI.
SCOUR CRITICAL CODE = 5
OVERTOPPING FREQUENCY = N/A

2 YEAR FREQUENCY

$Q_2 = 130$ C.F.S.
VEL. = 6.3 F.P.S.
HW₂ = EL. 840.00

TEMPORARY STRUCTURE

$Q_5 = 250$ C.F.S.
VEL. = 9.1 F.P.S.
HW₅ = EL. 840.69
REQUIRED FLOW AREA = 35 SQ. FT.
MIN. CLEAR SPAN = 21.5 FT.

BRIDGE OFFICE CONTACT

BILL DREHER, P.E.
TELEPHONE: (608) 266-8489

CONSULTANT CONTACT

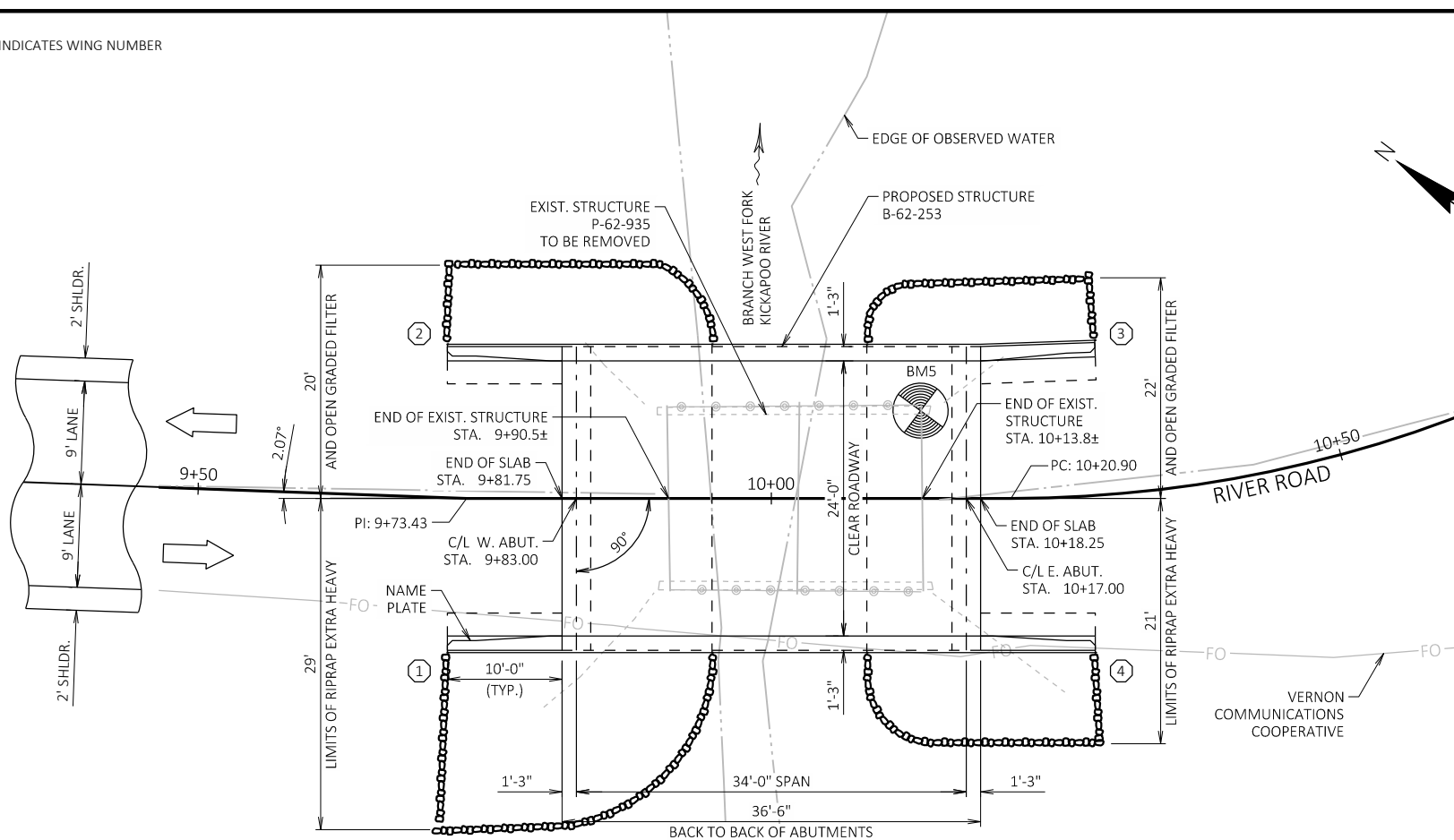
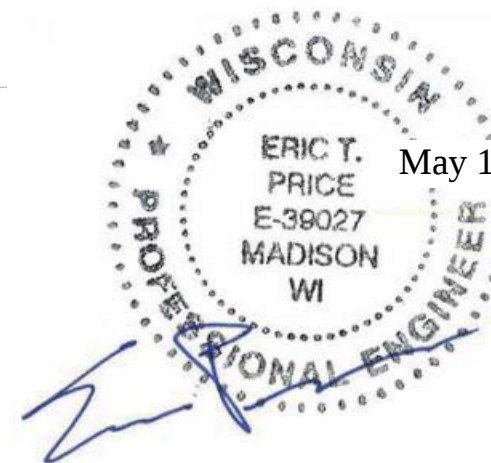
ERIC PRICE, P.E.
TELEPHONE: (608) 826-6146

CURVE DATA

PI STA = 10+47.45
Y = 161843.440
X = 731309.645
DELTA = 27°07'58"
D = 52°05'13"
T = 26.54'
L = 52.09'
R = 110.00'
PC STA = 10+20.90
PT STA = 10+72.99
SE = NORMAL CROWN

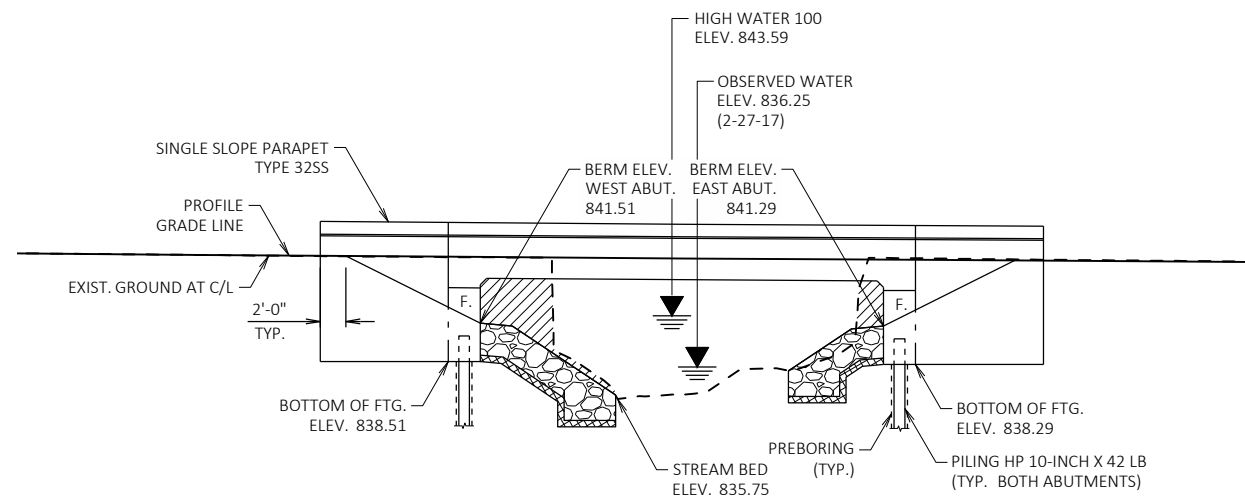


May 1, 2018



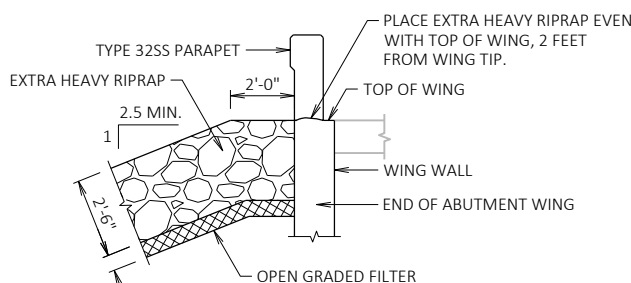
PLAN

(SINGLE SPAN CONCRETE FLAT SLAB BRIDGE)

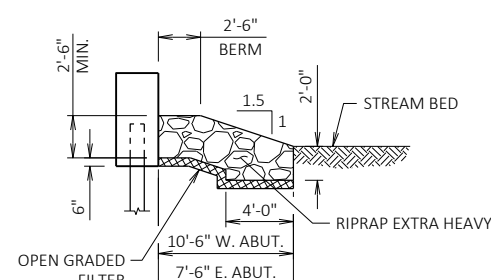


ELEVATION

(LOOKING NORTH)



TYPICAL FILL SECTION AT WING TIP



RIPRAP DETAIL

LIST OF DRAWINGS

- GENERAL PLAN
- CROSS SECTION & QUANTITIES
- SUBSURFACE EXPLORATION
- WEST ABUTMENT
- WEST ABUTMENT DETAILS
- EAST ABUTMENT
- EAST ABUTMENT DETAILS
- SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS
- SINGLE SLOPE PARAPET 32SS

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
4	10+93.2	60d SPIKE IN UTIL POLE, 39.69' LT	844.47
5	10+13.0	CUT SQUARE ON CURB BRIDGE, 7.64' LT.	847.40

AREA TO EXCAVATE INCLUDED IN "EXCAVATION FOR STRUCTURES BRIDGES B-62-253"

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 AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO DESIGNATION M213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP EXTRA HEAVY AND OPEN GRADED FILTER TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

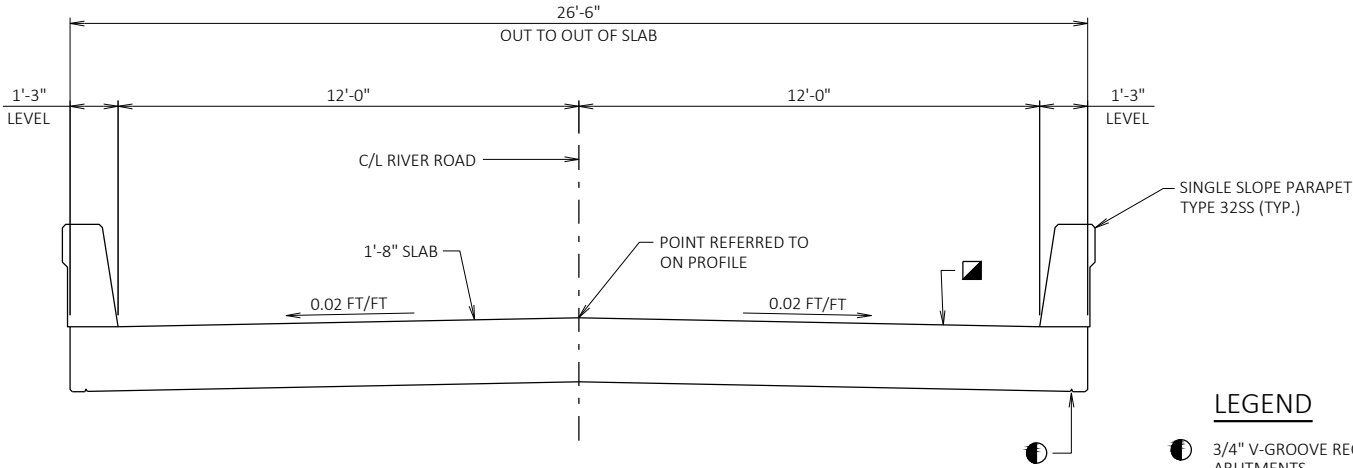
THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-253" SHALL BE THE EXISTING GROUNDLINE.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE PARAPETS ON THE WINGS AND SUPERSTRUCTURE.

THE EXISTING STRUCTURE P-62-935, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 23.3 FT. LONG WITH A 13.8 FT. CLEAR ROADWAY WIDTH.

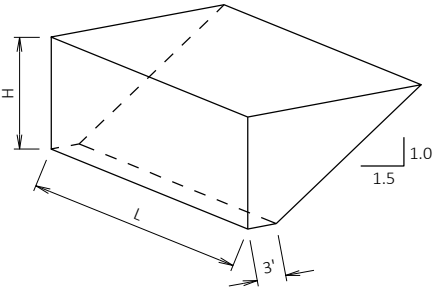
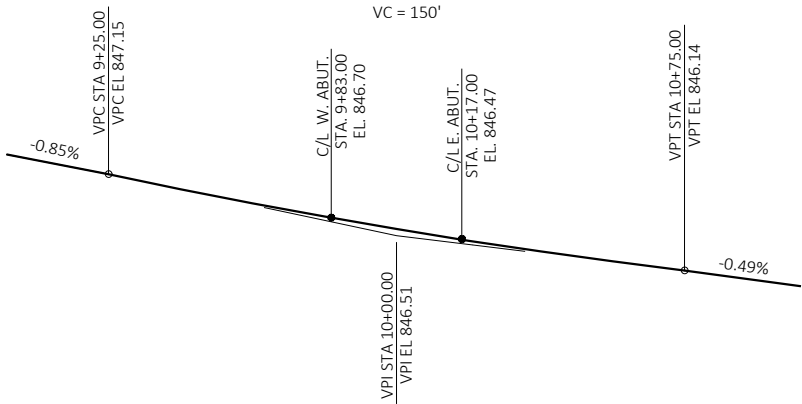
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

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.

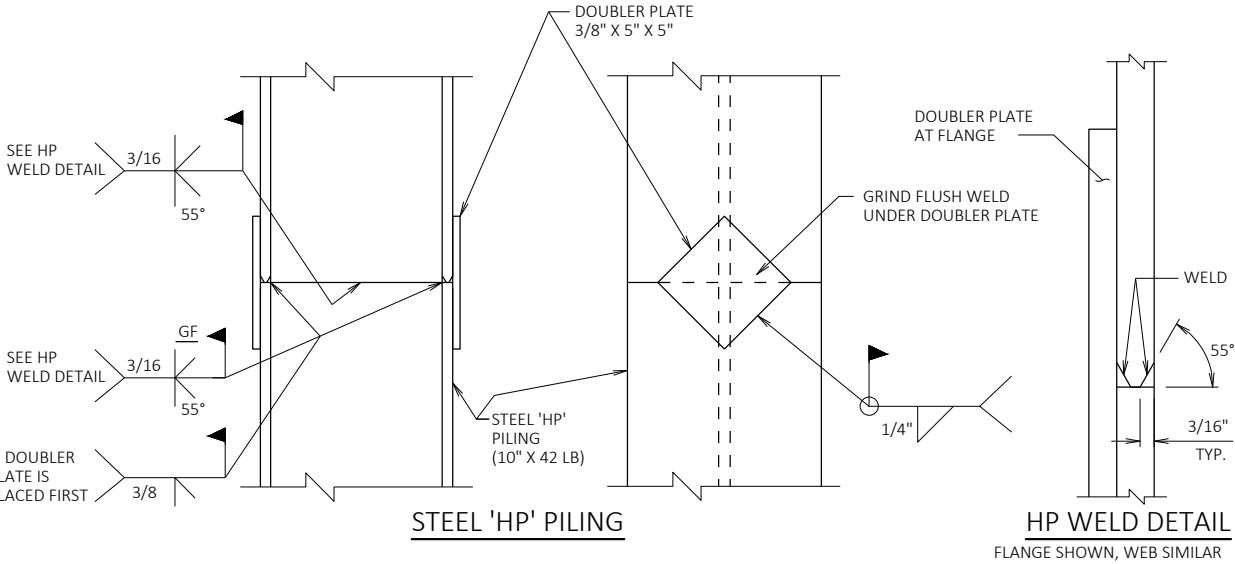


LEGEND

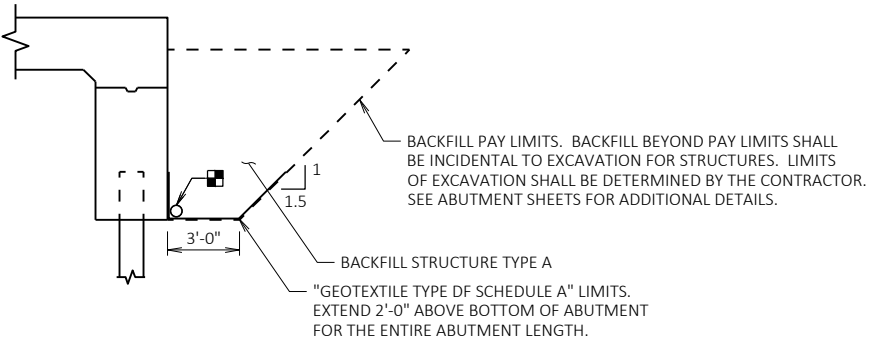
- 3/4" V-GROOVE REQ'D. EXTEND 6" FROM F.F. OF ABUTMENTS.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.



PROFILE GRADE LINE
(RIVER ROAD)



PILE SPLICE DETAILS



STRUCTURE BACKFILL LIMITS

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

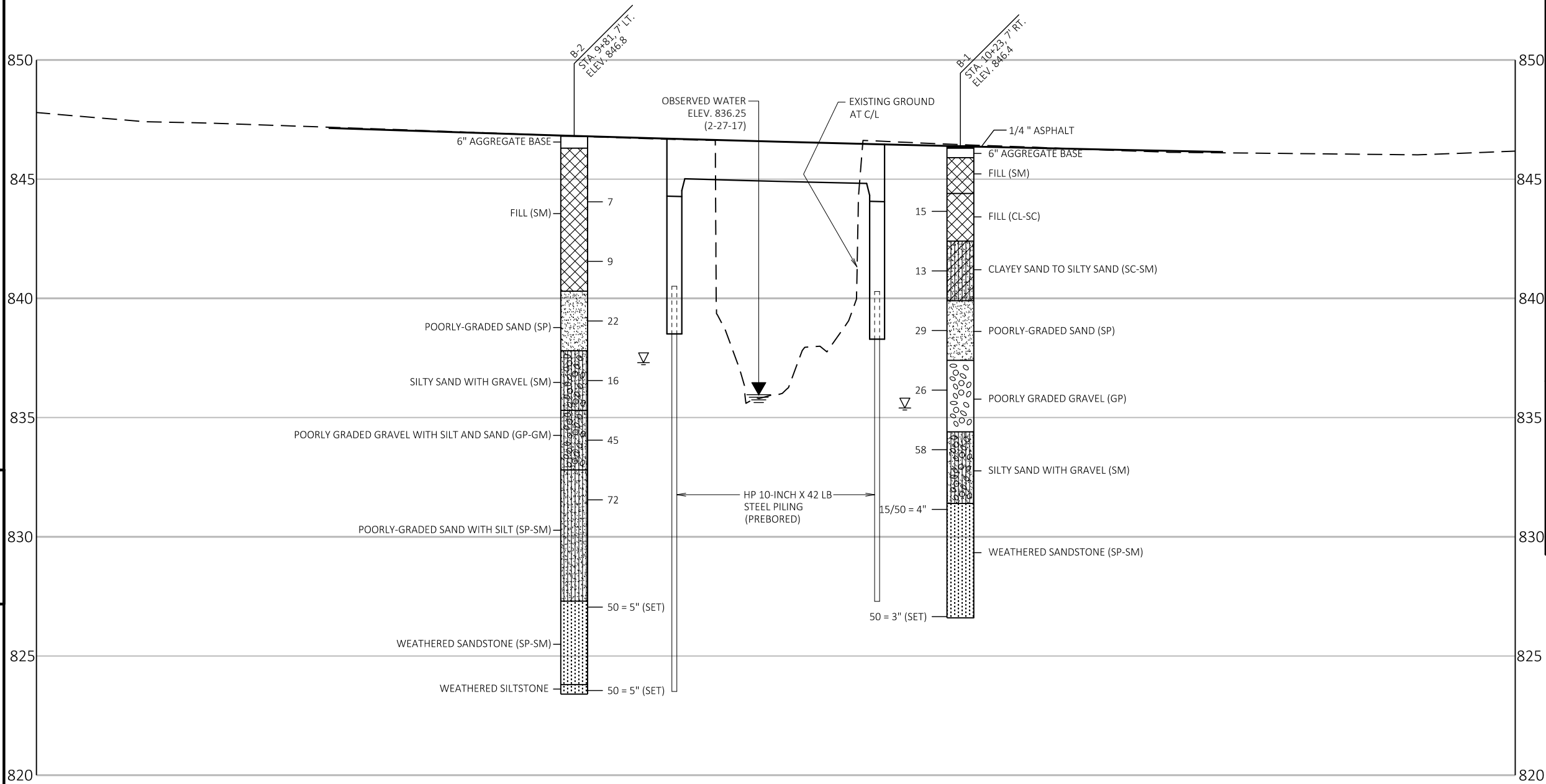
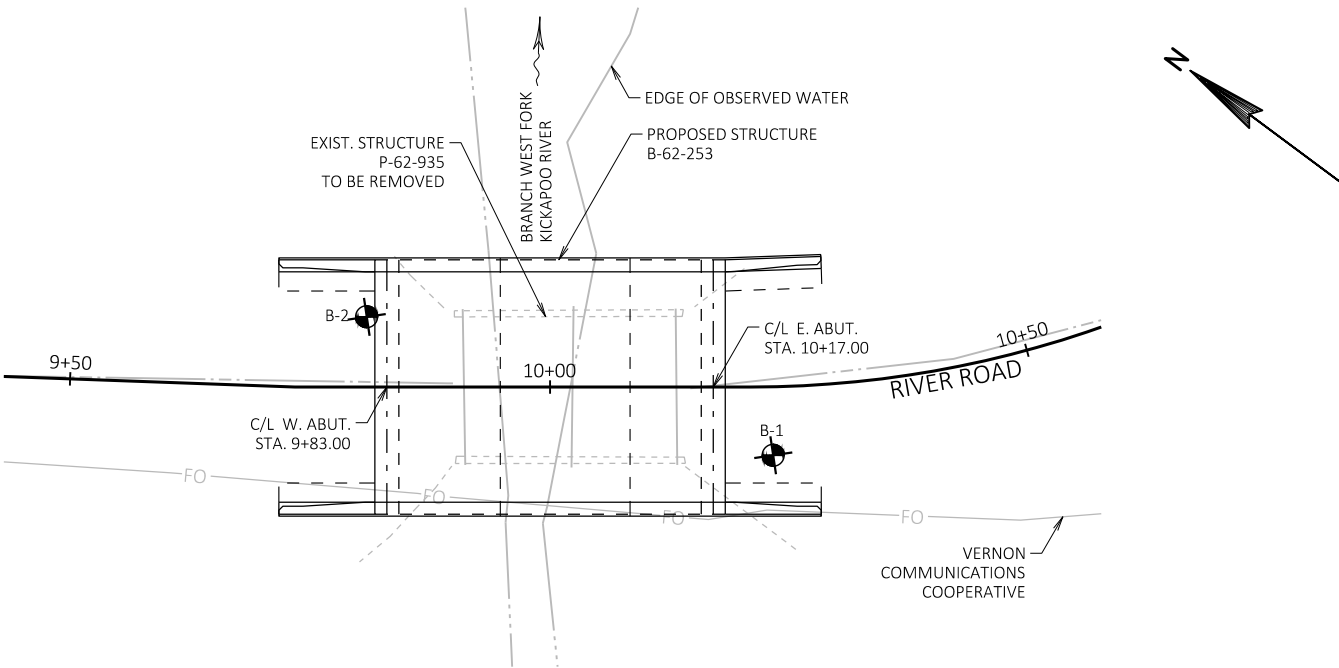


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY PKF		PLANS CK'D. ETP	
CROSS SECTION & QUANTITIES		SHEET 2 OF 10	

TOTAL ESTIMATED QUANTITIES

BID NUMBER	BID ITEM	UNIT	WEST ABUT	EAST ABUT	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 10+02	LS	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-62-253	LS	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	115	115	-----	230
502.0100	CONCRETE MASONRY BRIDGES	CY	32	32	72	136
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	98	98
502.3210	PIGMENTED SURFACE SEALER	SY	9	9	30	48
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,710	1,710	-----	3,420
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,880	1,880	14,580	18,340
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9	-----	18
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	60	44	-----	104
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	68	52	-----	120
606.0400	RIPRAP EXTRA-HEAVY	CY	95	60	-----	155
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	90	-----	180
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	20	20	-----	40
SPV. 0035	OPEN GRADED FILTER	CY	21	13	-----	34
NON-BID ITEMS						
	FILLER	SIZE	-----	-----	-----	1/2" & 3/4"

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	APRIL 4, 2017	161858.6357	731289.5129
2	APRIL 4, 2017	161901.2348	731275.8723
BORINGS COMPLETED BY: CHOSEN VALLEY TESTING			
REPORT COMPLETED BY: CHOSEN VALLEY TESTING			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) VERNON COUNTY			



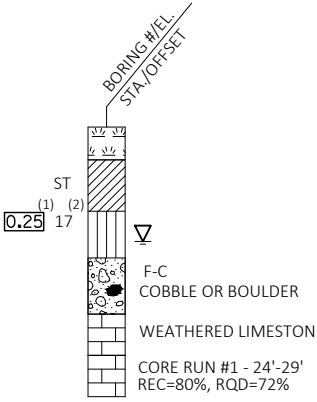
STATE PROJECT NUMBER

5289-00-73

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

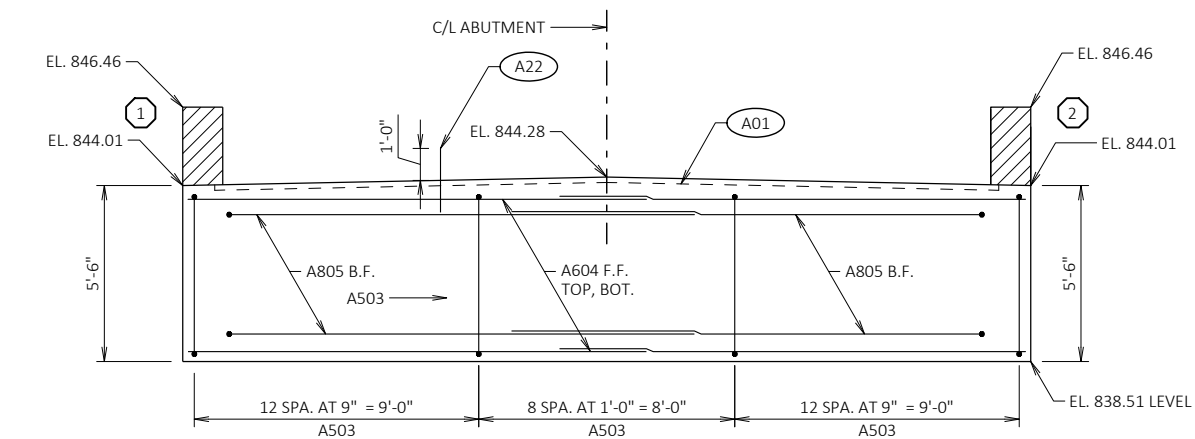
ABBREVIATIONS

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

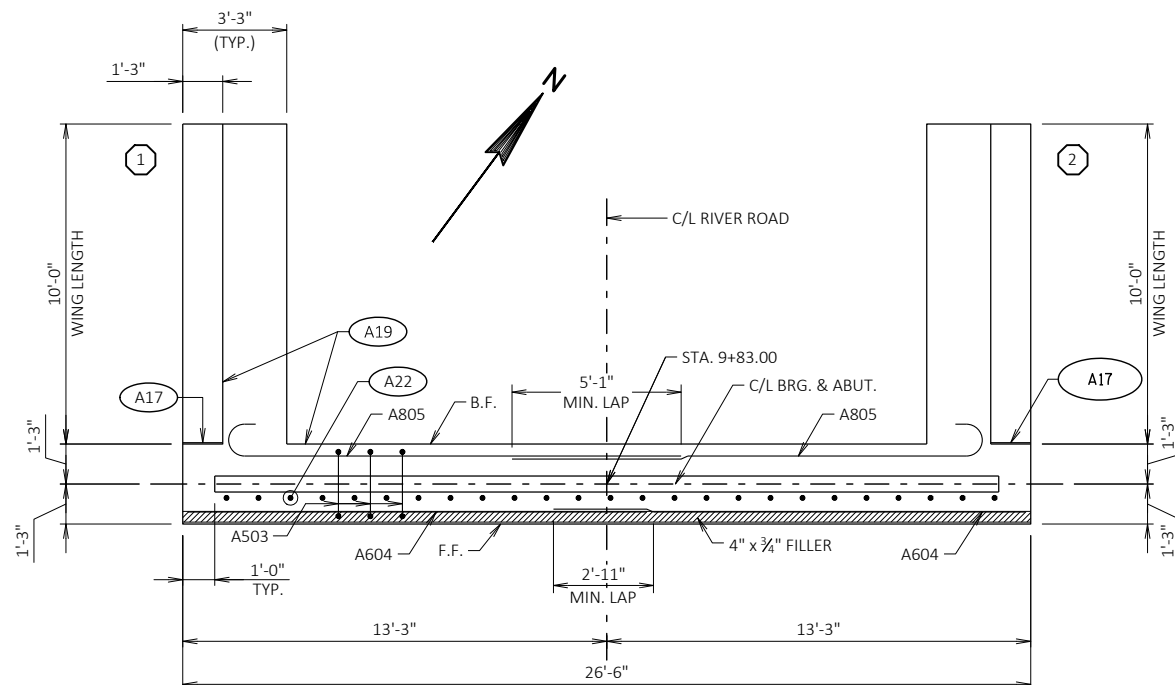
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

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.

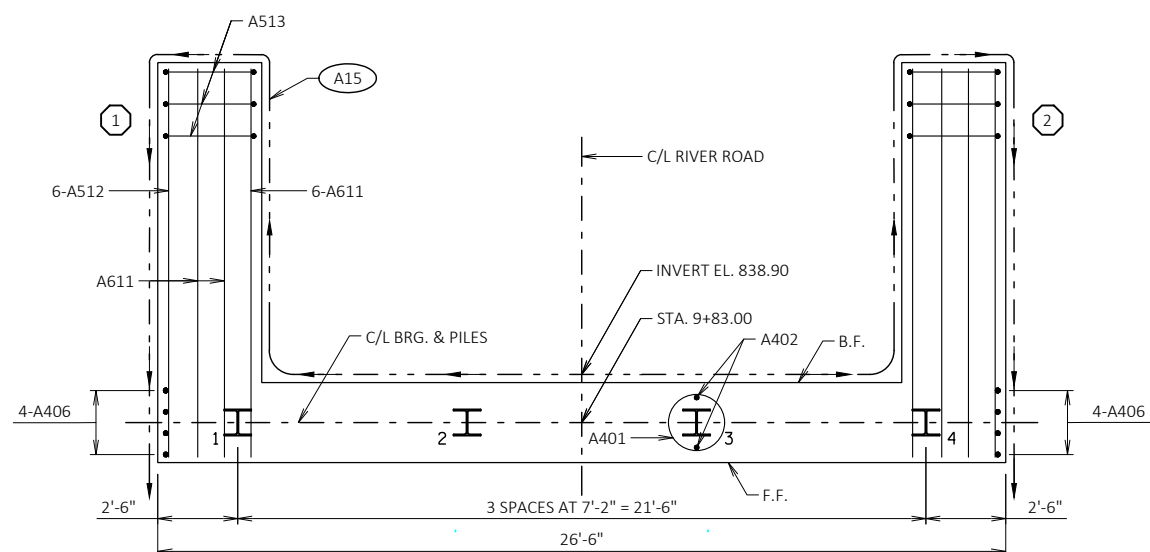
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY		PKF	PLANS CKD. ETP
SUBSURFACE EXPLORATION		SHEET 3 OF 10	



ELEVATION
(LOOKING WEST)



PLAN



PILE PLAN

LEGEND

 INDICATES WING NUMBER

A01 KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".

A09 SUPPORT ABUTMENT ON PILING STEEL HP 10-INCH x 42 LB, PREBORED A MINIMUM OF 3' INTO BEDROCK OR CONSOLIDATED MATERIAL. BACKFILL THE BEDROCK CORE WITH CONCRETE IN ACCORDANCE WITH SECTION 550.3.9.3 OF THE STANDARD SPECIFICATIONS. ESTIMATED 17' LONG, INCLUDING AN ESTIMATED PREBORE DEPTH OF 15'.

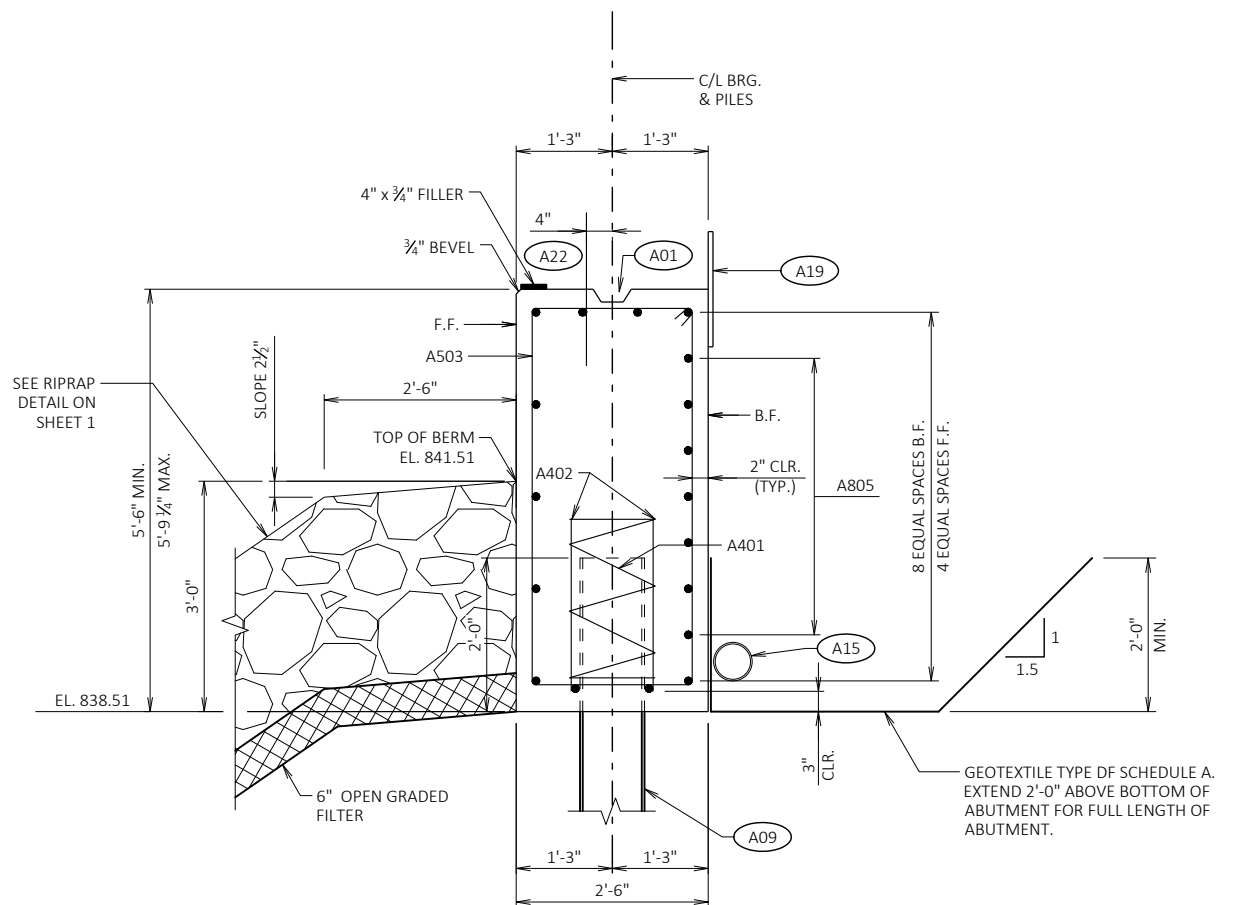
A15 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

A17 ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY ON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

A22 A510 BARS AT 1'-0". THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE



SECTION THRU BODY

HORIZONTAL BARS NOT OTHERWISE IDENTIFIED
ARE A604 BARS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY		PKF	PLANS CK'D. ETP
WEST ABUTMENT		SHEET 4 OF 10	

ORIGINAL PLAN PREPARED BY
CORRE

BILL OF BARS - WEST ABUTMENT

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
NON-COATED BARS					TOTAL WEIGHT = 1,710 LBS
A401	4	28'-0"	X		BODY - AT PILES - 1 PER PILE VERT.
A402	8	2'-3"			BODY - AT PILES - 2 PER PILE VERT.
A503	33	15'-2"	X		BODY - STIRRUPS VERT.
A604	22	14'-7"			BODY - B.F. & F.F. HORIZ.
A805	14	15'-8"	X		BODY - B.F. HORIZ.
A406	8	5'-1"			BODY - ABUTMENT ENDS VERT.
COATED BARS					TOTAL WEIGHT = 1,260 LBS
A510	25	2'-0"			BODY - TOP VERT.
A611	16	12'-2"			WINGS 1 & 2 - B.F. & TOP HORIZ.
A512	12	12'-2"			WINGS 1 & 2 - F.F. HORIZ.
A513	20	16'-8"	X		WINGS 1 & 2 BODY - STIRRUPS VERT.
A514	28	9'-6"	X		WINGS 1 & 2 - STIRRUPS VERT.
A415	12	9'-8"			WINGS 1 & 2 - B.F. & F.F. HORIZ.
A616	4	9'-8"			WINGS 1 & 2 - TOP HORIZ.

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

LEGEND

- A03

OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2" x 6" (18" RUBBERIZED MEMBRANE WATERPROOFING AT B.F. & ¾" "V" GROOVE AT F.F. IF JOINT IS USED).
- A15

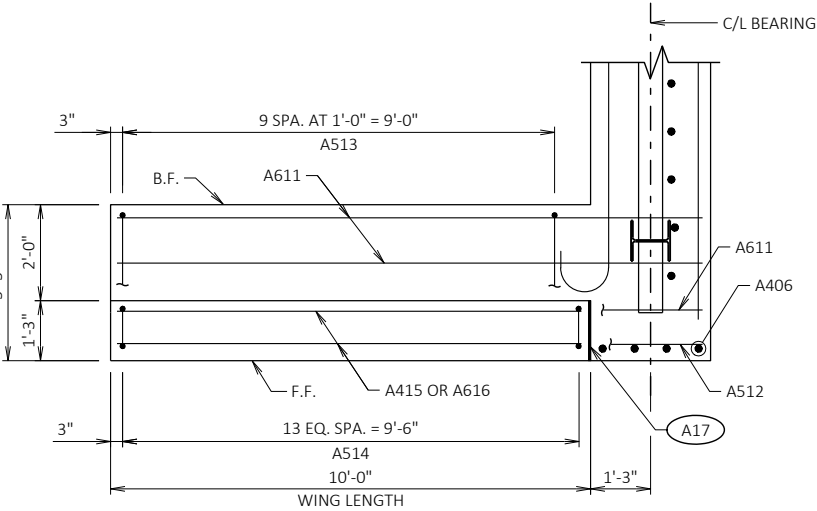
PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- A17

½" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)
- A19

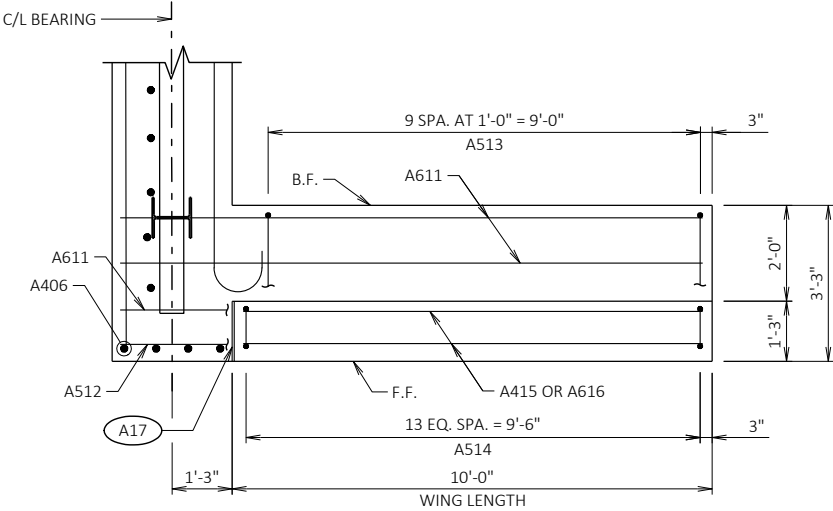
18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- A21

FOR PPT. BARS & DIMENSIONS SEE SHEET 10.

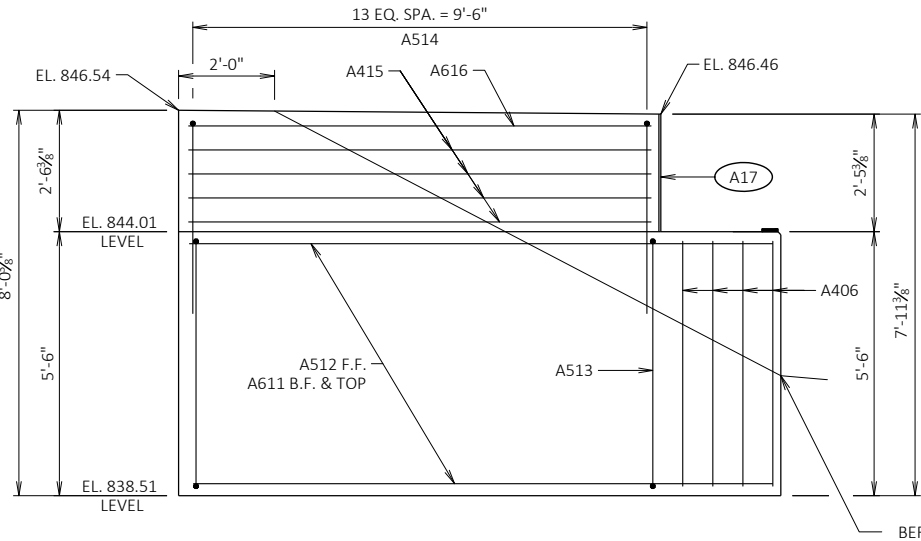
B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE



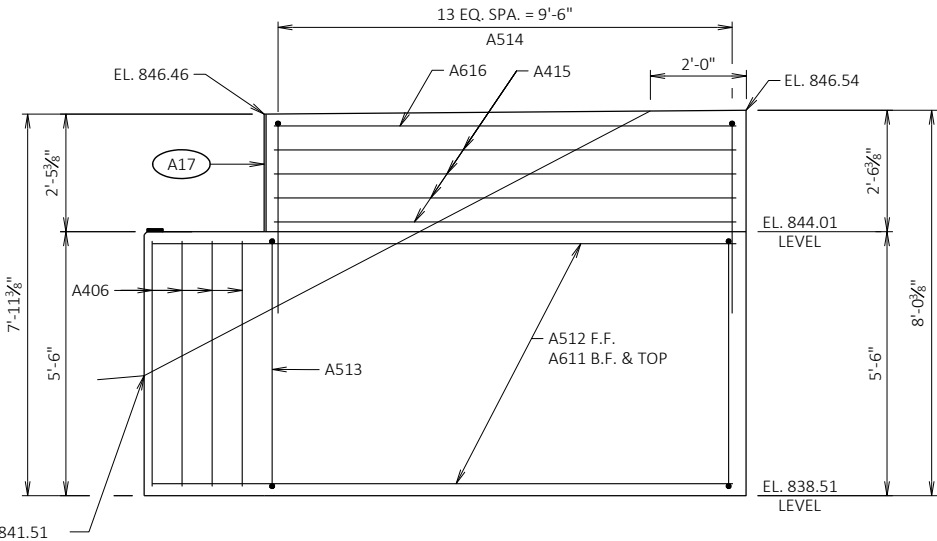
PLAN - WING 1



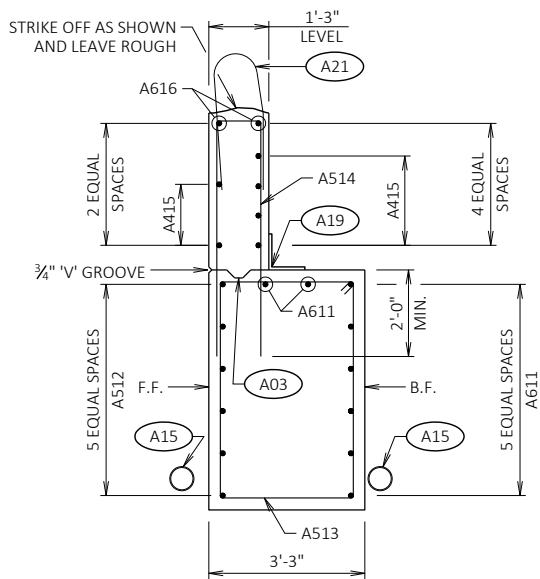
PLAN - WING 2



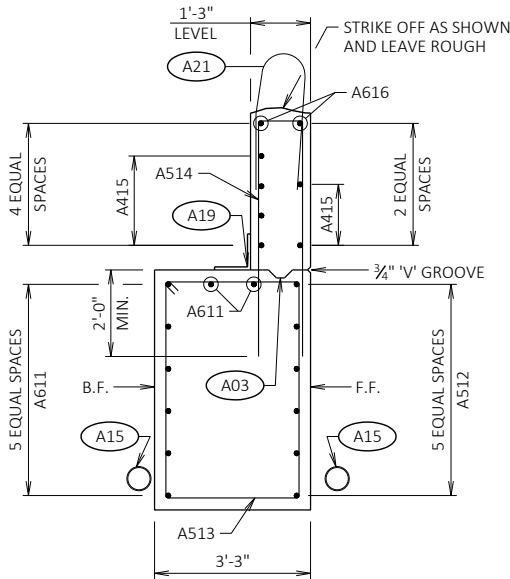
ELEVATION - WING 1



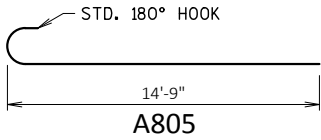
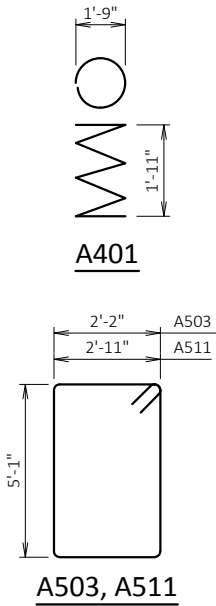
ELEVATION - WING 2



SECTION THRU WING 1



SECTION THRU WING 2



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY PKF		PLANS CKD. ETP	
WEST ABUTMENT DETAILS			SHEET 5 OF 10



STATE PROJECT NUMBER
5289-00-73

* 6" NOMINAL

3/8" MAX

NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.

SECTION B-B

1 1/2"

* DIMENSION IS APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

RODENT SHIELD DETAIL

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 OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

B805

8 EQUAL SPACES B.F.
4 EQUAL SPACES F.F.

A15

1.5

2'-0" MIN.

GEOTEXTILE TYPE DF SCHEDULE A. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR FULL LENGTH OF ABUTMENT.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY		PKF	PLANS CK'D. ETP
EAST ABUTMENT			SHEET 6 OF 10

BILL OF BARS - EAST ABUTMENT

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

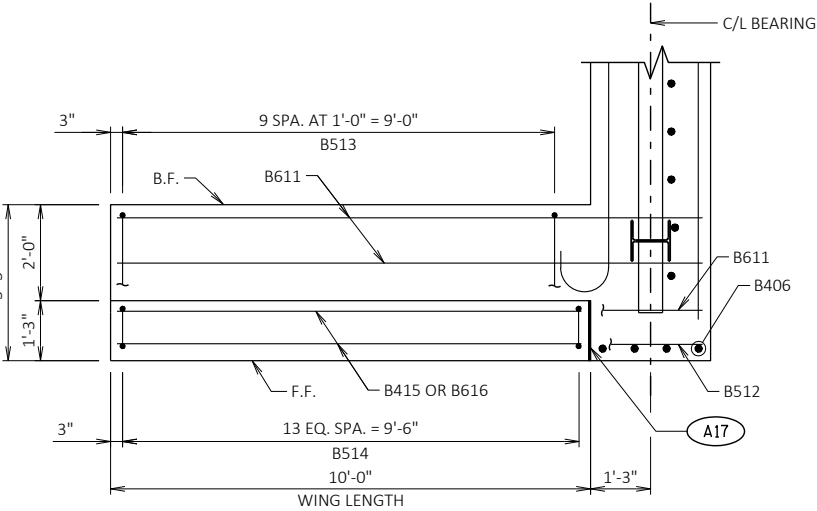
BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
NON-COATED BARS					
TOTAL WEIGHT = 1,710 LBS					
B401	4	28'-0"	X		BODY - AT PILES - 1 PER PILE VERT.
B402	8	2'-3"			BODY - AT PILES - 2 PER PILE VERT.
B503	33	15'-2"	X		BODY - STIRRUPS VERT.
B604	22	14'-7"			BODY - B.F. & F.F. HORIZ.
B805	14	15'-8"	X		BODY - B.F. HORIZ.
B406	8	5'-1"			BODY - ABUTMENT ENDS VERT.
COATED BARS					
TOTAL WEIGHT = 1,260 LBS					
B510	25	2'-0"			BODY - TOP VERT.
B611	16	12'-2"			WINGS 3 & 4 - B.F. & TOP HORIZ.
B512	12	12'-2"			WINGS 3 & 4 - F.F. HORIZ.
B513	20	16'-8"	X		WINGS 3 & 4 BODY - STIRRUPS VERT.
B514	28	9'-6"	X		WINGS 3 & 4 - STIRRUPS VERT.
B415	12	9'-8"			WINGS 3 & 4 - B.F. & F.F. HORIZ.
B616	4	9'-8"			WINGS 3 & 4 - TOP HORIZ.

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

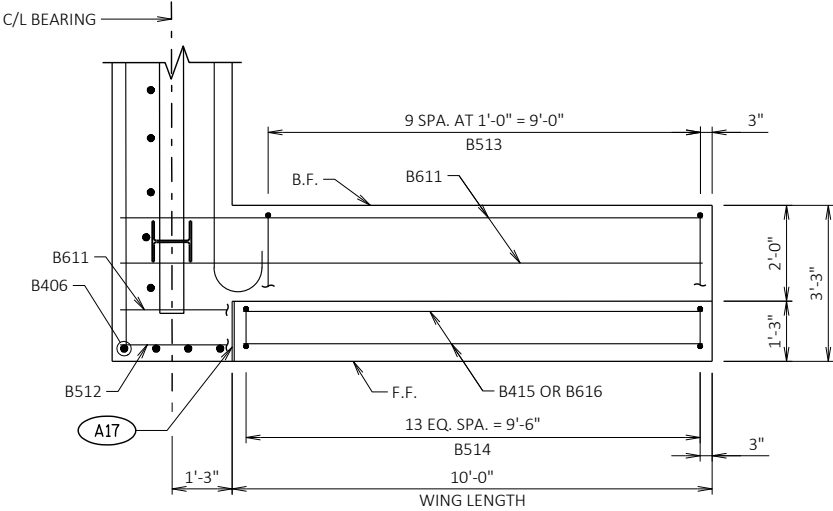
LEGEND

- A03** OPTIONAL KEYED CONST. JOINT FORMED BY BEVELED 2" x 6" (18" RUBBERIZED MEMBRANE WATERPROOFING AT B.F. & ¾" "V" GROOVE AT F.F. IF JOINT IS USED).
- A15** PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".
- A17** ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)
- A19** 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- A21** FOR PPT. BARS & DIMENSIONS SEE SHEET 10.

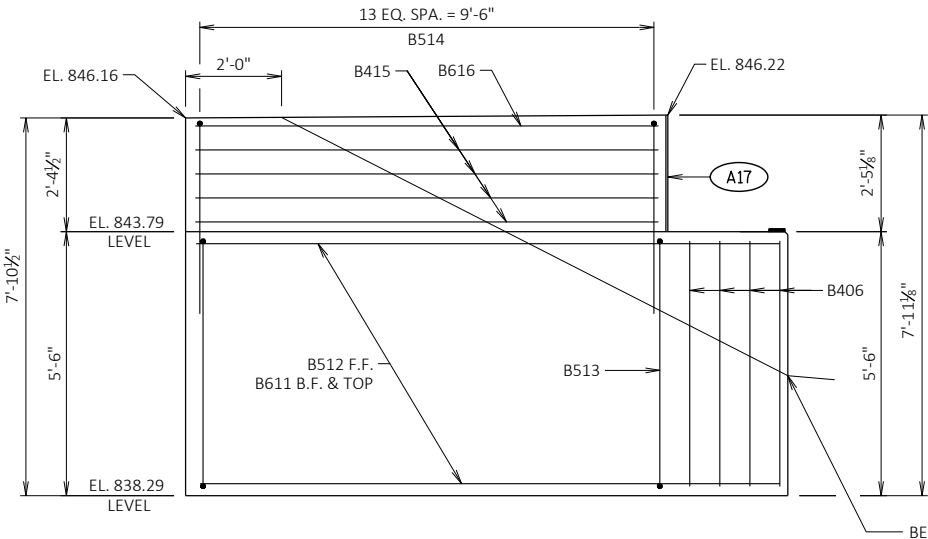
B.F. DENOTES BACK FACE
F.F. DENOTES FRONT FACE



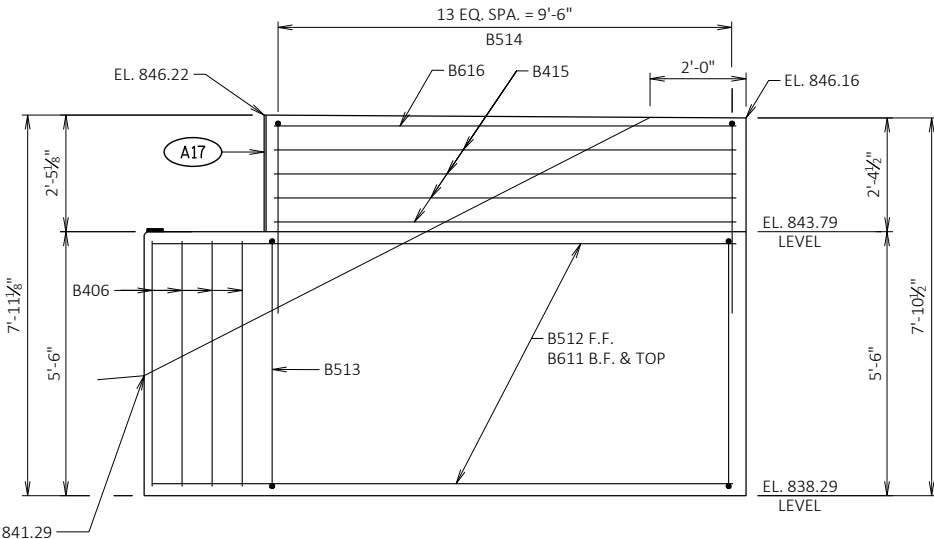
PLAN - WING 3



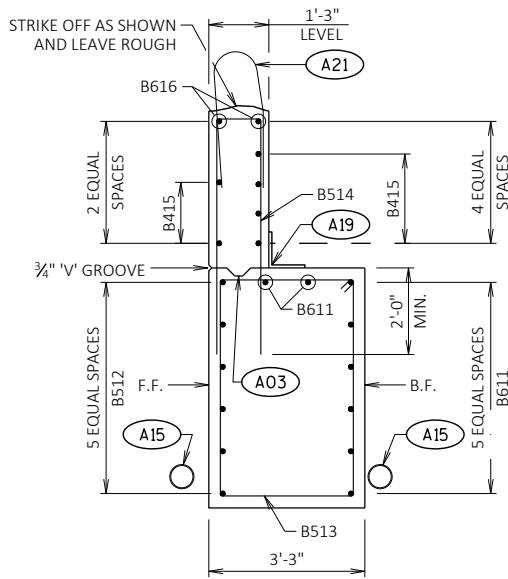
PLAN - WING 4



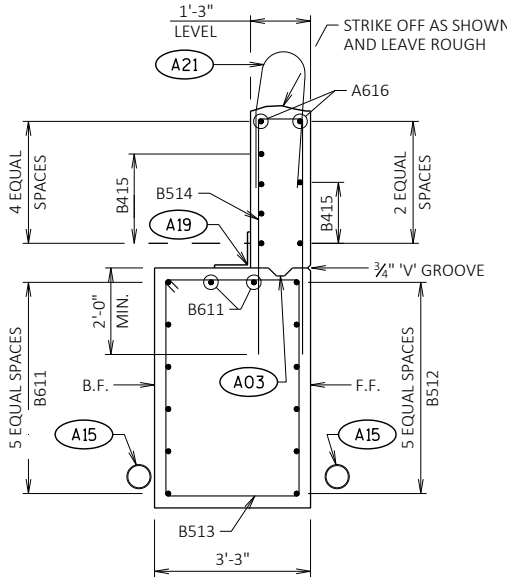
ELEVATION - WING 3



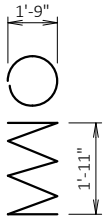
ELEVATION - WING 4



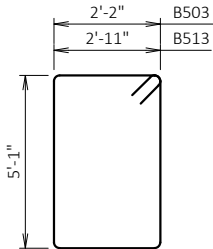
SECTION THRU WING 3



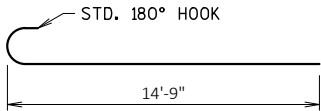
SECTION THRU WING 4



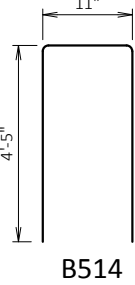
B401



B503, B513



B805



B514



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY PKF		PLANS CKD. ETP	
EAST ABUTMENT DETAILS		SHEET 7 OF 10	

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

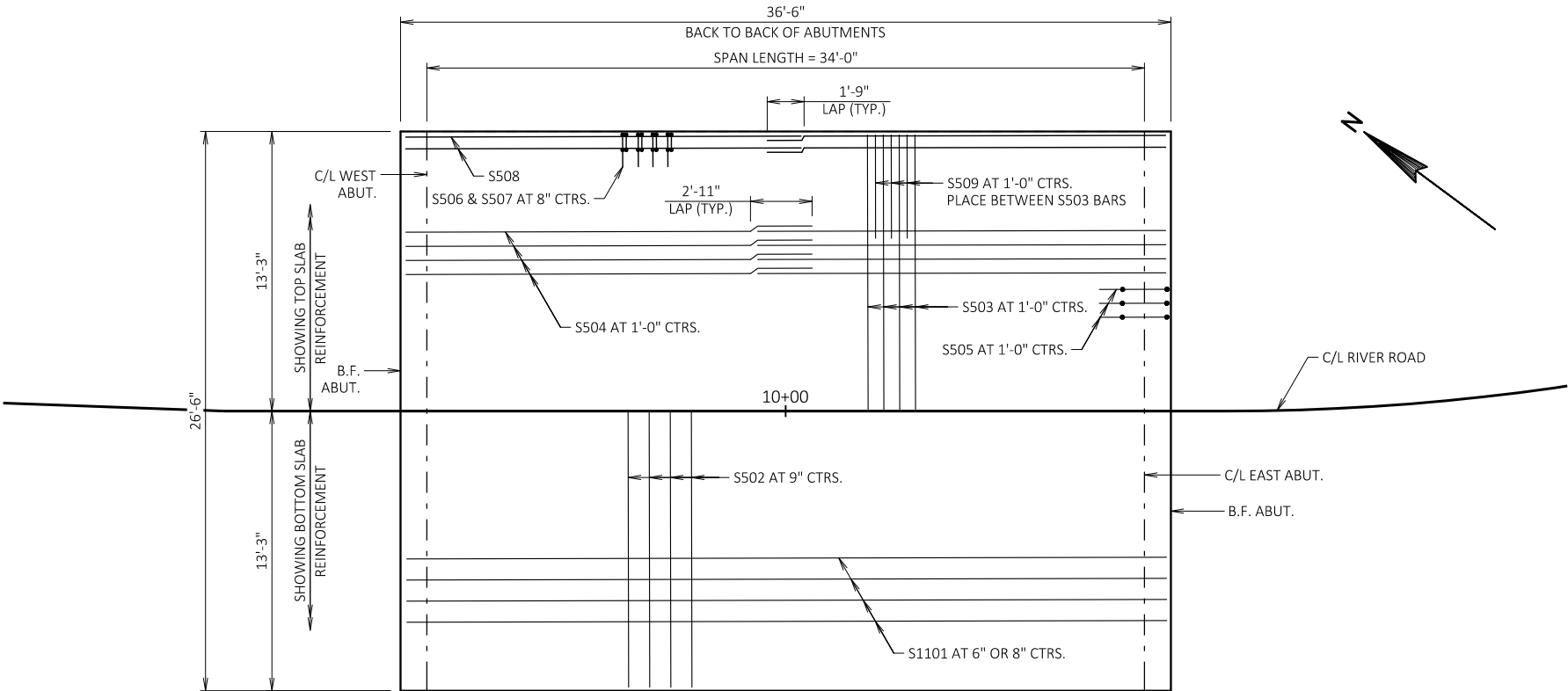
TRANSVERSE BARS SHALL BE PLACED PARALLEL TO THE C/L OF SUBSTRUCTURE UNITS.

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

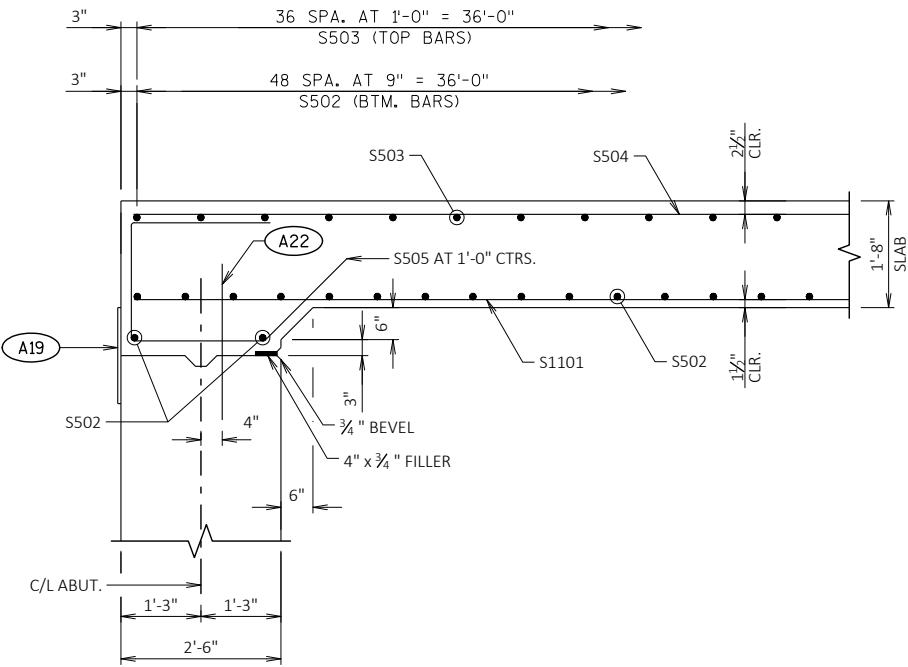
LEGEND

A19 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

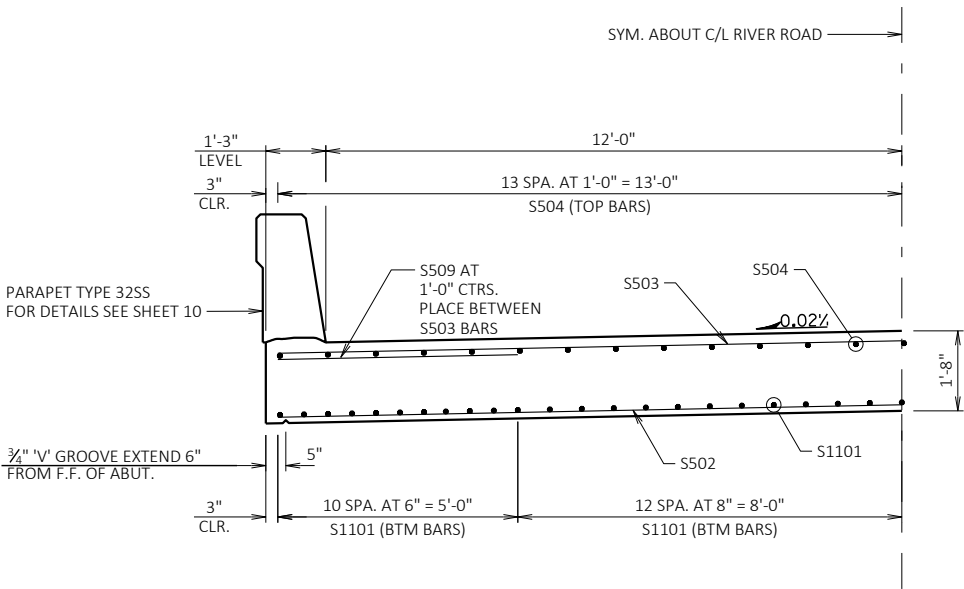
A22 A510 OR B510 BARS AT 1'-0" CTRS. THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.



PLAN



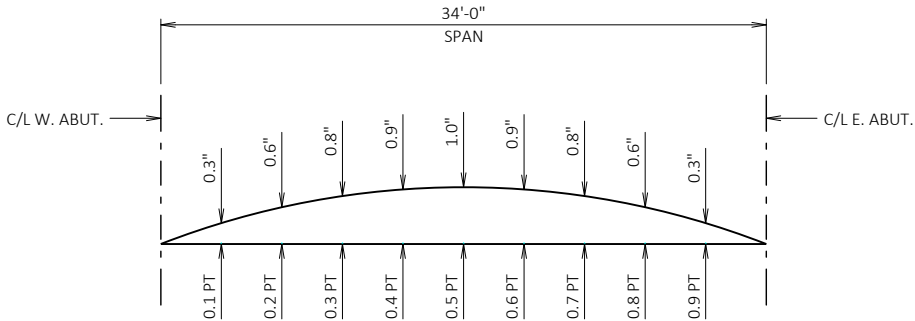
PARTIAL LONGITUDINAL SECTION



TYPICAL SECTION THRU SLAB

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY		PKF	PLANS CKD. ETP
SUPERSTRUCTURE		SHEET 8 OF 10	





CAMBER DIAGRAM

PROVIDE CAMBER AS SHOWN ABOVE TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. THIS DOES NOT INCLUDE ANY ALLOWANCE FOR FORM SETTLEMENT.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R/L.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE
LESS SLAB THICKNESS
PLUS CAMBER
PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS TOP OF SLAB FALSEWORK ELEVATION.

BILL OF BARS - SUPERSTRUCTURE

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
COATED BARS					TOTAL WEIGHT = 14,580 LBS	
S1101	45	36'-2"			SLAB - BTM	LONGIT.
S502	53	26'-2"			SLAB - BTM	TRANS.
S503	37	26'-2"			SLAB - TOP	TRANS.
S504	54	19'-7"			SLAB - TOP	LONGIT.
S505	54	7'-11"	X		SLAB - AT ABUTMENTS	TRANS.
S506	110	4'-5"	X		PARAPET - VERT.	TRANS.
S507	110	5'-0"	X		PARAPET - VERT.	TRANS.
S508	24	19'-0"			PARAPET - HORIZ.	LONGIT.
S509	72	5'-0"			SLAB - EDGES	TRANS.

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

TOP OF SLAB ELEVATIONS

LOCATION	C/L OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C/L OF E. ABUT.
NORTH FLOW LINE	846.46	846.43	846.41	846.38	846.36	846.34	846.32	846.29	846.27	846.25	846.23
C/L STRUCTURE	846.70	846.67	846.65	846.62	846.60	846.58	846.56	846.53	846.51	846.49	846.47
SOUTH FLOW LINE	846.46	846.43	846.41	846.38	846.36	846.34	846.32	846.29	846.27	846.25	846.23

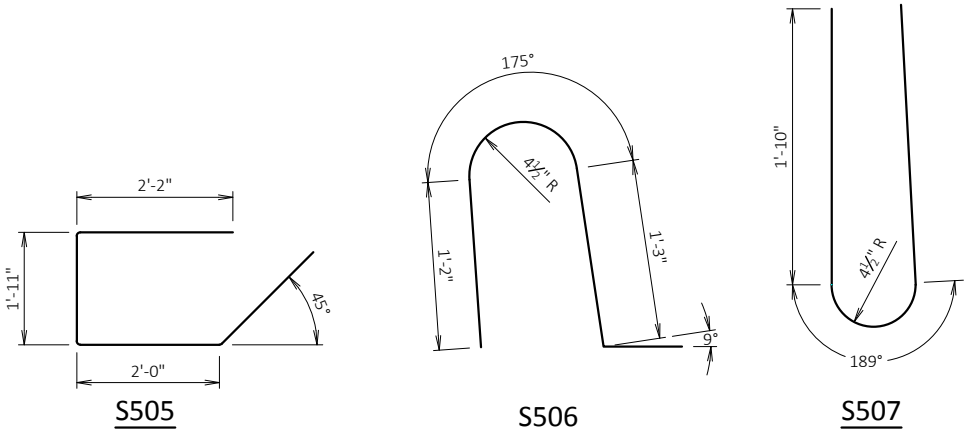
ELEVATIONS SHOWN ARE FINISHED SLAB AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

ELEVATIONS ACCOUNT FOR 1'-3" LEVEL AREA UNDER PARAPETS.

SURVEY TOP OF SLAB ELEVATIONS

SPAN POINT	W. ABUT.	0.5	E. ABUT.
NORTH EDGE OF SLAB			
C/L STRUCTURE			
SOUTH EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



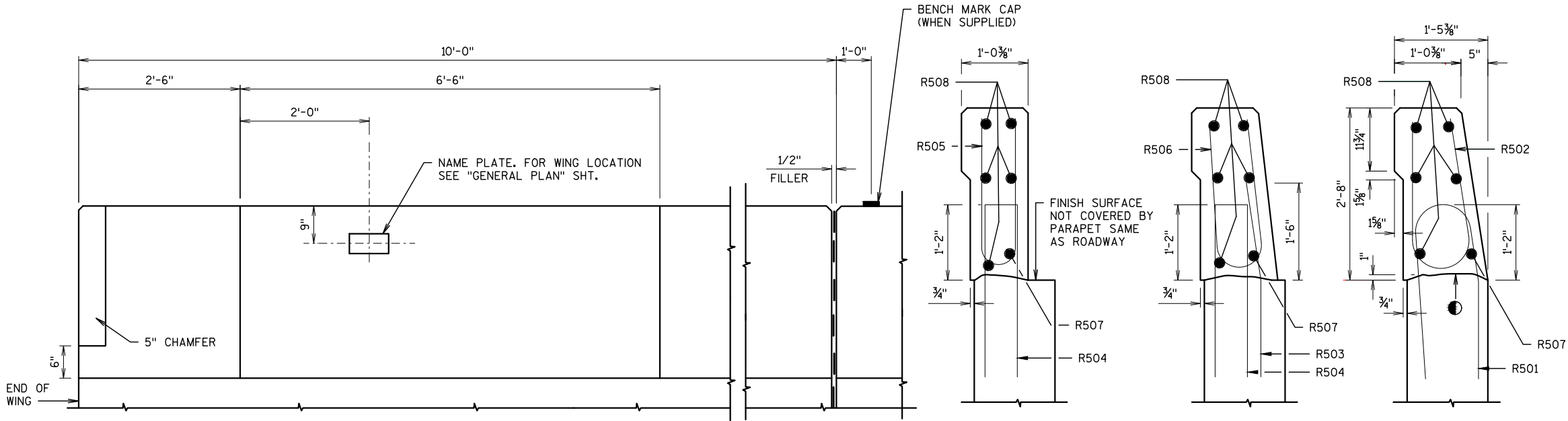
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY		PKF	PLANS CK'D. ETP
SUPERSTRUCTURE DETAILS		SHEET 9 OF 10	

BILL OF BARS - PARAPET

BAR SHOWN ARE FOR 1 WING ONLY

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
COATED BARS					
					TOTAL WEIGHT = 310 LBS
R501	2	5'-10"	X		PARAPET VERT.
R502	2	5'-0"	X		PARAPET VERT.
R503	12	3'-0"	X		PARAPET VERT.
R504	17	5'-7"	X		PARAPET VERT.
R505	11	4'-9"	X		PARAPET VERT.
R506	6	4'-10"	X		PARAPET VERT.
R507	1	9'-8"	X		PARAPET HORIZ.
R508	5	9'-8"			PARAPET HORIZ.

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

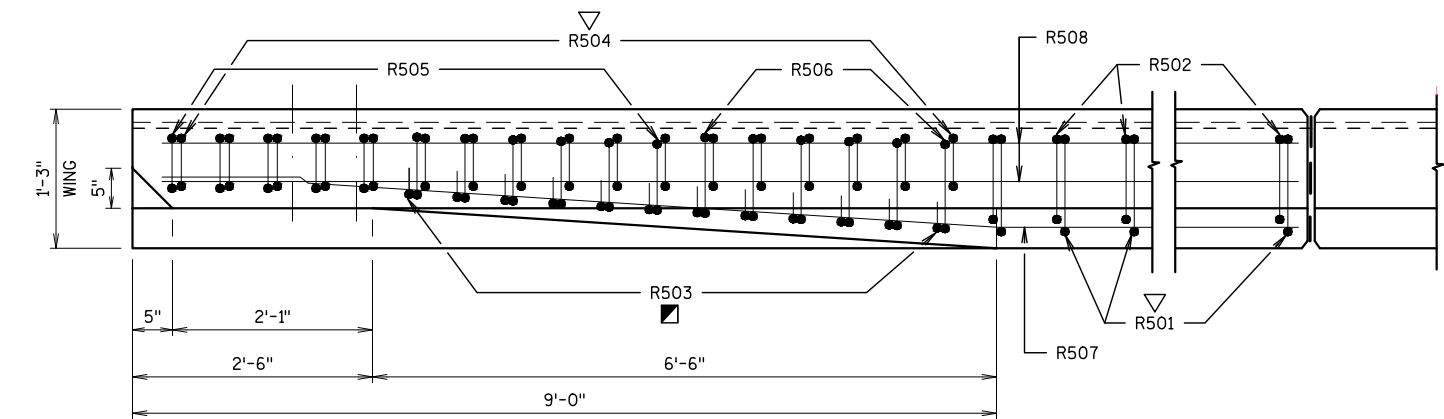


INSIDE ELEVATION

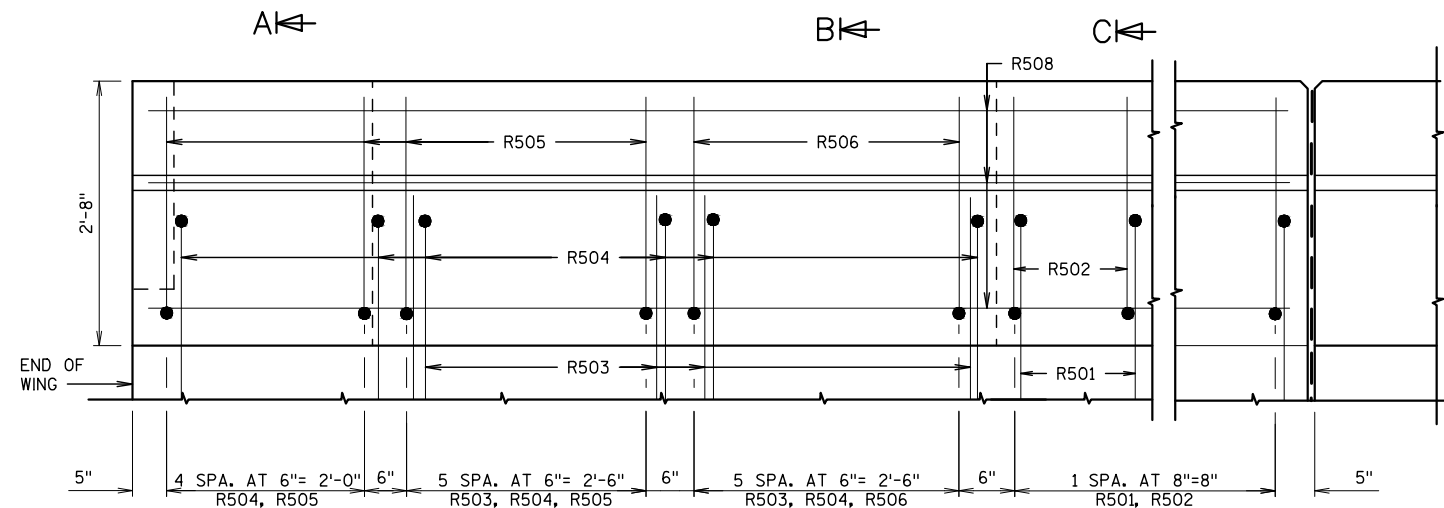
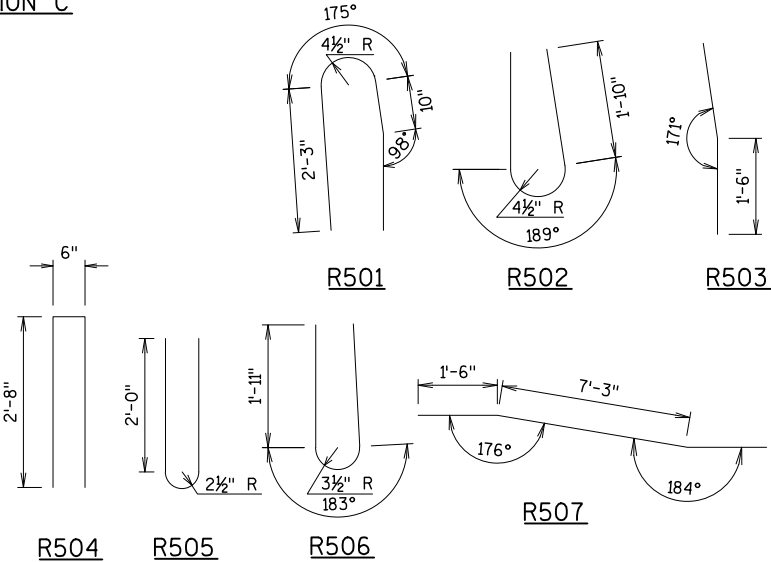
SECTION A

SECTION B

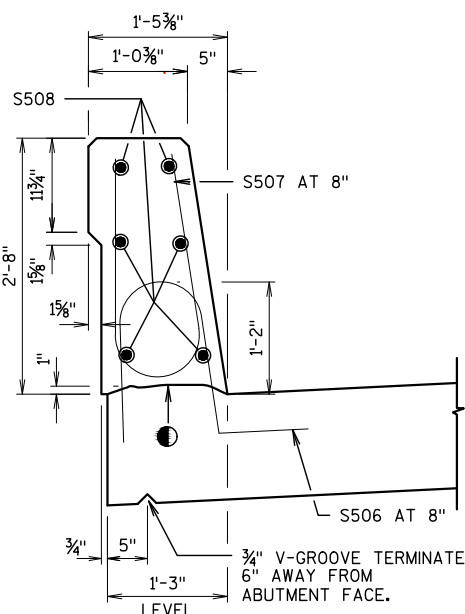
SECTION C



PLAN



OUTSIDE ELEVATION



SECTION THRU PARAPET ON BRIDGE

CONST. JOINT - STRIKE OFF AS SHOWN.

R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-253			
DRAWN BY		PKF	PLANS CK'D. ETP
SINGLE SLOPE PARAPET 32SS			SHEET 10 OF 10

Construct Temporary Bypass								
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
		Cut	Fill	Cut	Fill	Cut	Expanded	Mass Ordinate
Note 1		1.00	Note 2	Note 3				
08+41.64	0.00	0.97	-	-	-	-	-	0
08+77.6	35.96	7.39	-	6	-	6	-	6
09+00	22.40	16.53	-	10	-	15	-	15
09+50	50.00	-	63.74	15	59	31	74	-43
09+84.71	34.71	-	127.28	-	123	31	227	-196
Bridge								
10+17.19	0.00	-	81.89	-	-	31	227	-196
10+50	32.81	5.48	-	3	50	34	289	-255
11+00	50.00	5.04	-	10	-	44	289	-246
11+54.55	54.55	1.03	-	6	-	50	289	-239

Total =	50	232
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River Road									
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate	
		Cut	Fill	Cut	Fill	Cut	Expanded		
							1.00		1.25
09+25	0.00	23.04	-	-	-	-	-	0	
09+50	25.00	25.23	0.56	22	0	22	0	22	
09+71.27	21.27	29.49	9.68	22	4	44	5	39	
Bridge									
10+29.21	0.00	25.98	2.62	-	-	44	5	39	
10+50	20.79	22.42	1.03	19	1	63	7	55	
10+75	25.00	19.89	0.96	20	1	82	8	74	

Total =	82	7
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Notes:
(1) Common Excavation is Item Number 205.0100.
(2) Expanded Fill Factor = 1.25

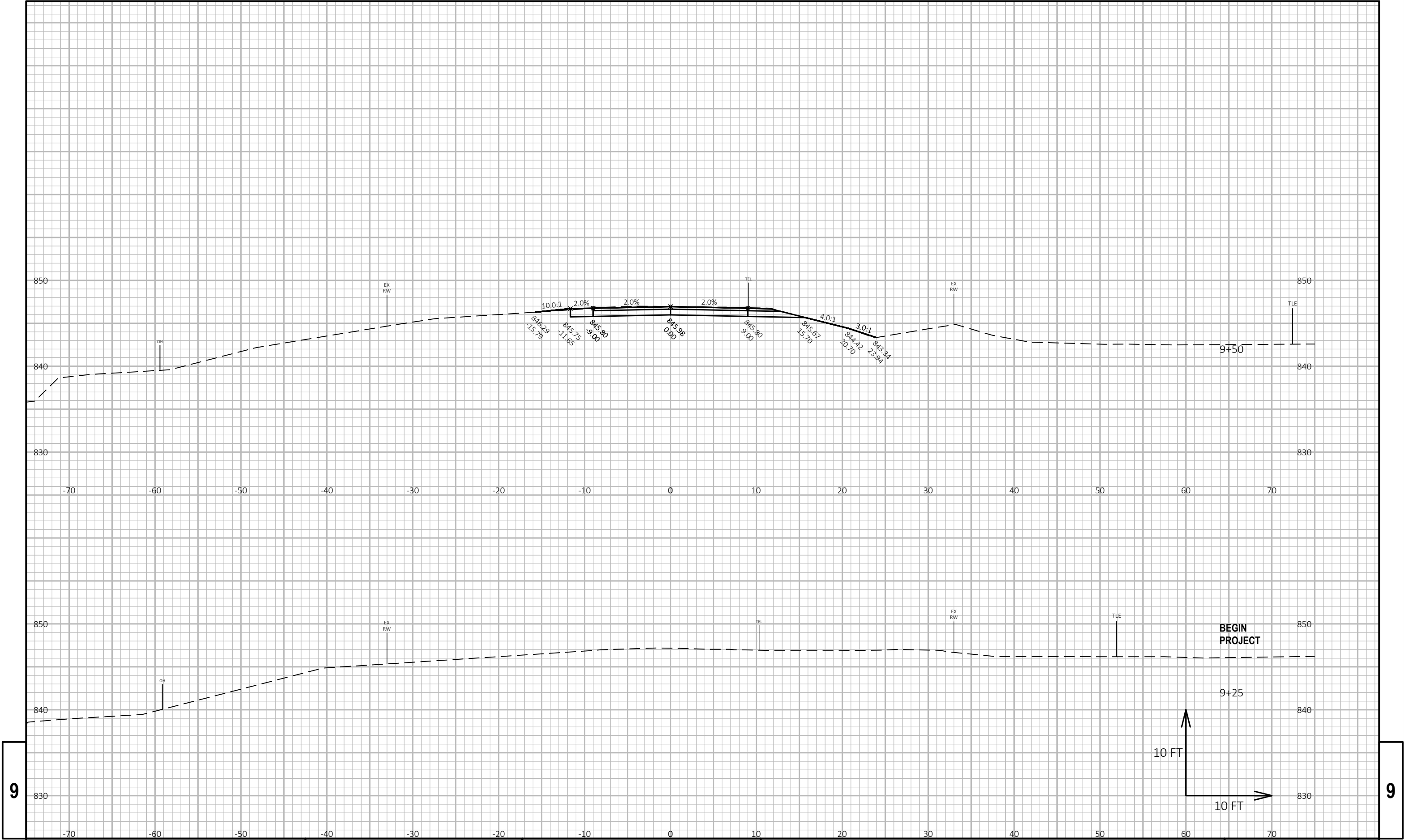
Expanded Fill = (Unexpanded Fill) * Fill Factor

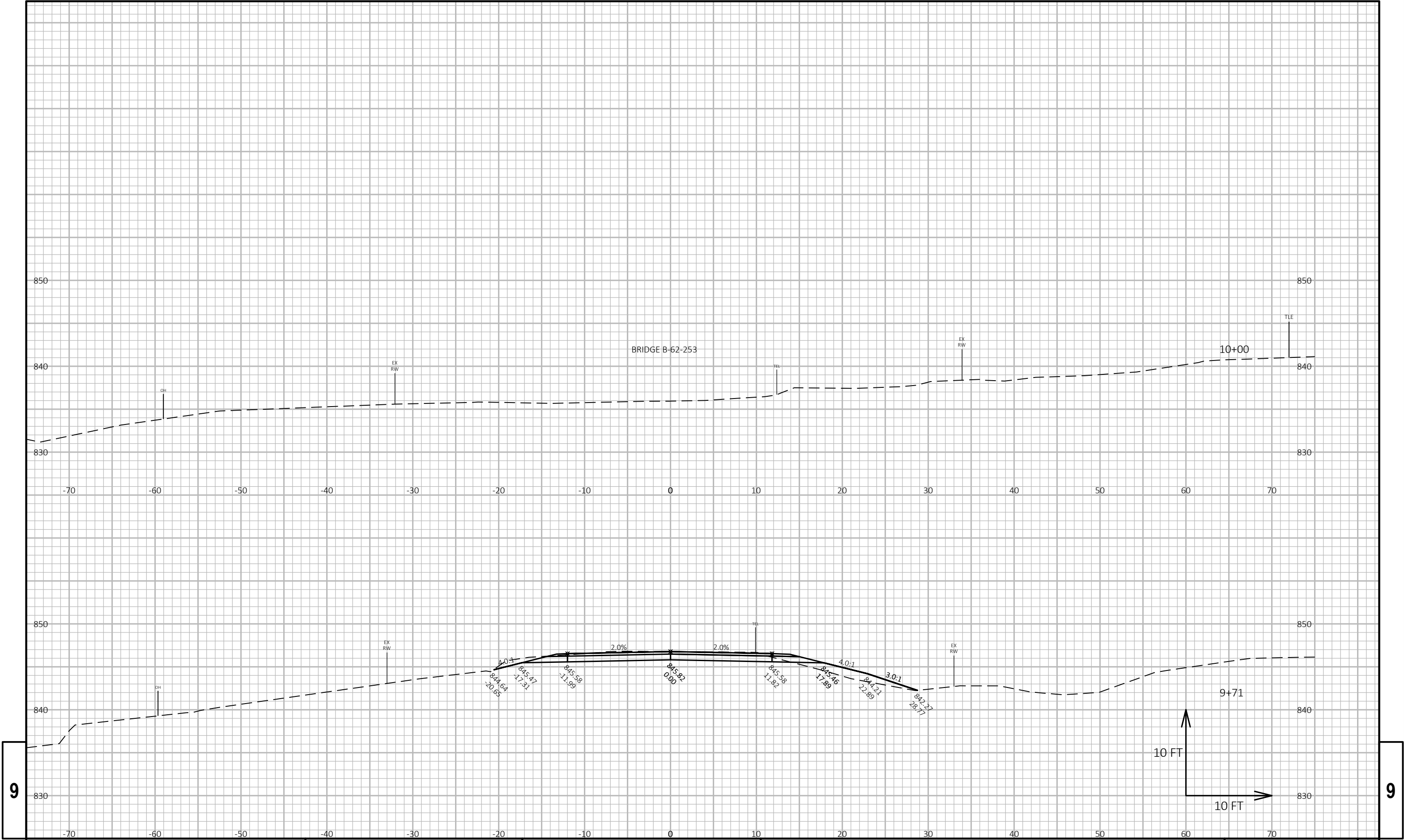
(3) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

Temporary Bypass Removal								
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	Mass Ordinate
Note 1		1.00	Note 2	Note 3				
08+41.64	0.00	-	0.49	-	-	-	-	0
08+77.6	35.96	-	3.00	-	2	-	3	-3
09+00	22.40	-	10.03	-	5	-	10	-10
09+50	50.00	71.69	-	66	9	66	21	45
09+84.71	34.71	136.71	-	134	-	200	21	179
Bridge								
10+17.19	0.00	91.19	-	-	-	200	21	179
10+50	32.81	2.29	0.56	57	0	257	22	235
11+00	50.00	3.97	1.80	6	2	263	24	238
11+54.55	54.55	-	0.55	4	2	267	27	240

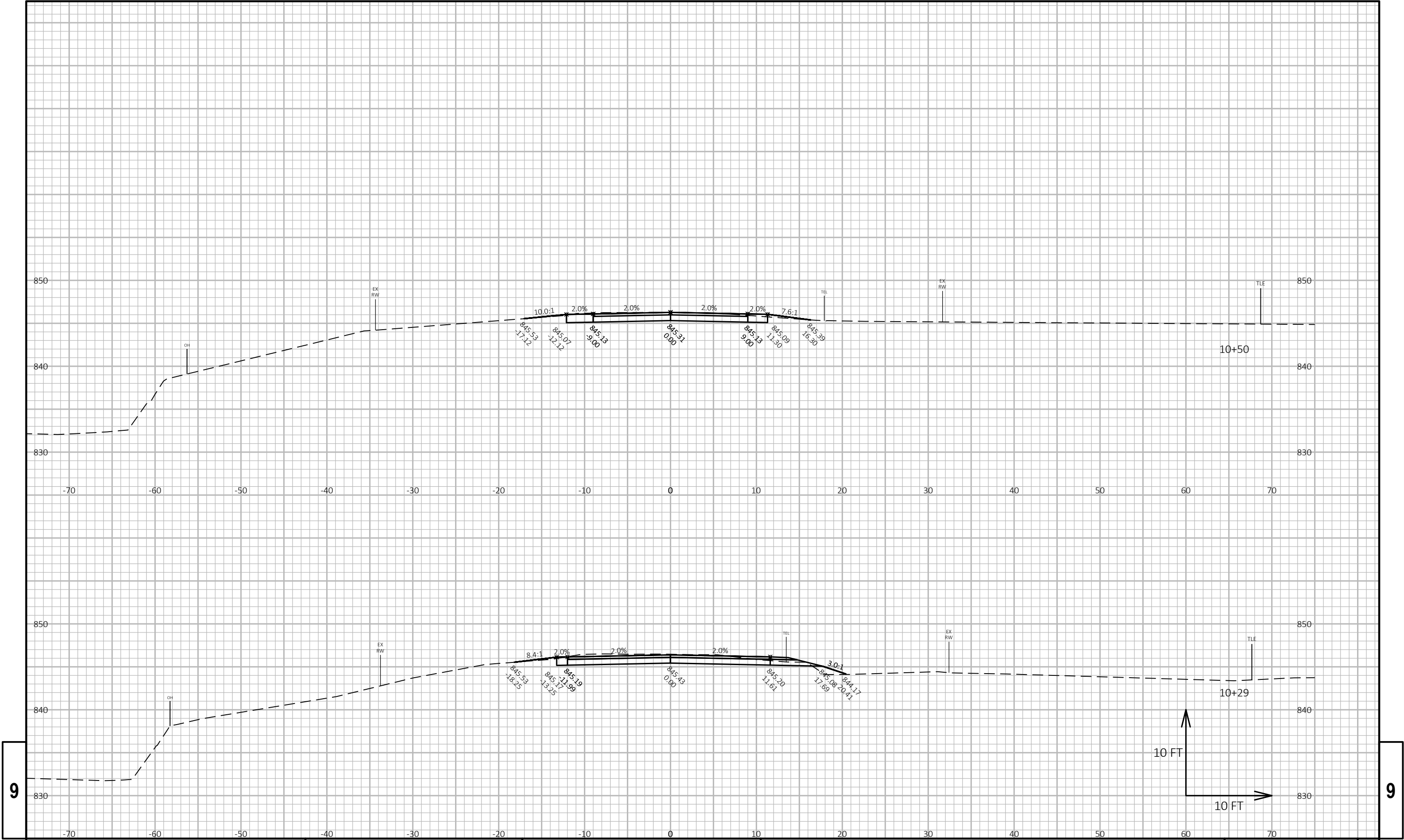
Total =	267	22
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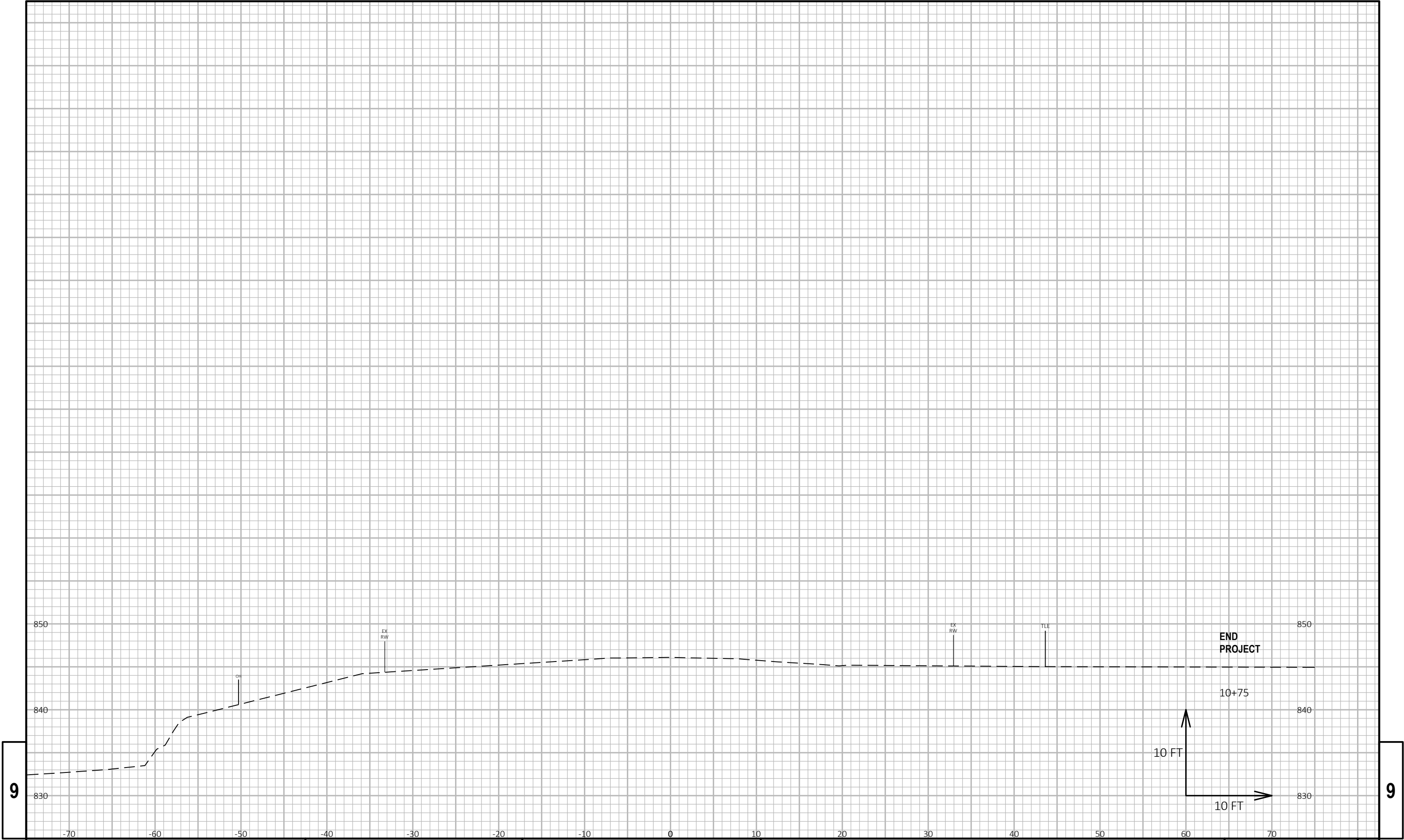
Notes:
(1) Common Excavation is Item Number 205.0100.
(2) Expanded Fill Factor = 1.25
Expanded Fill = (Unexpanded Fill) * Fill Factor
(3) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.



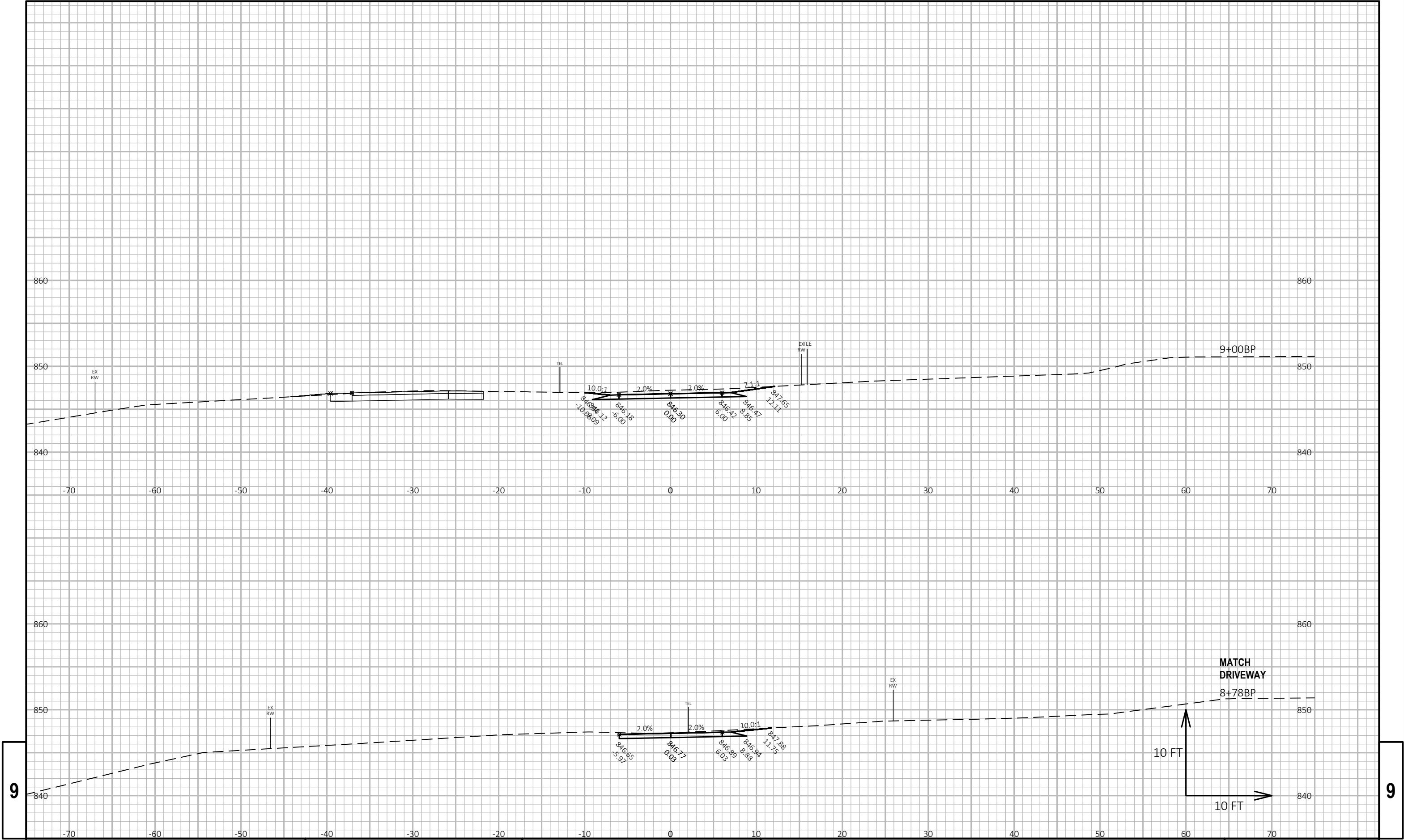


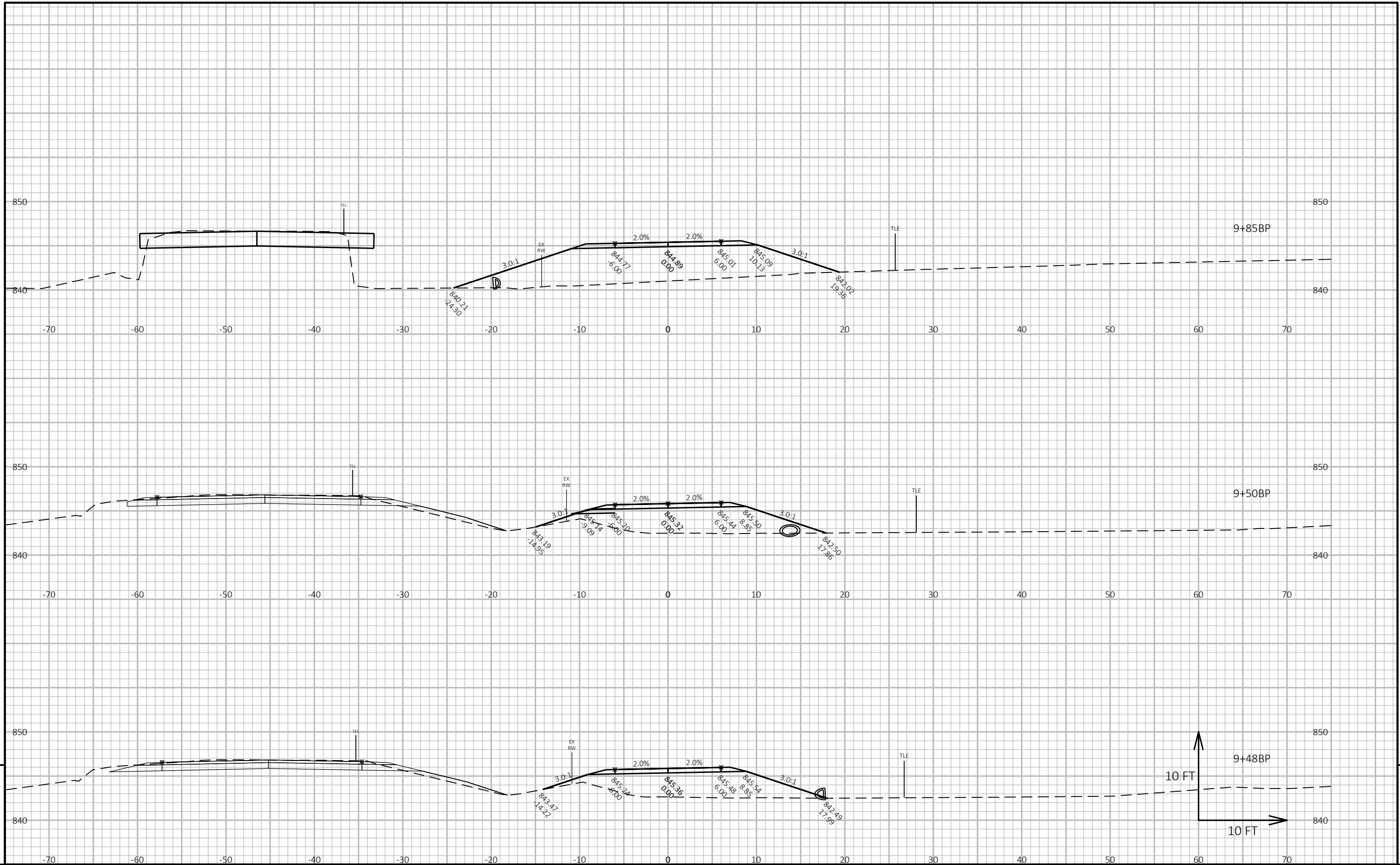
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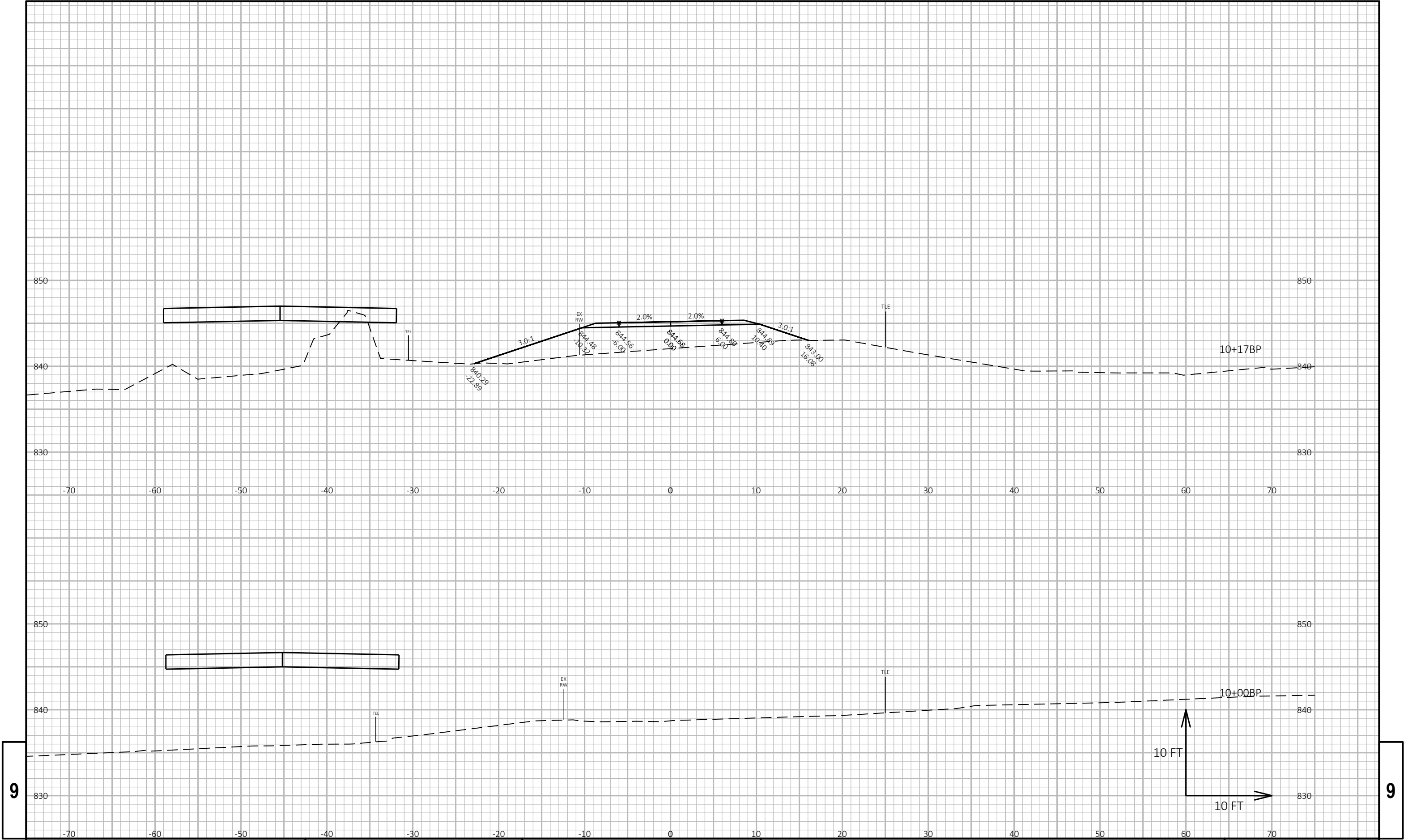




PROJECT NO: 5289-00-73	HWY: RIVER ROAD	COUNTY: VERNON	CROSS SECTIONS: MAINLINE	SHEET	E
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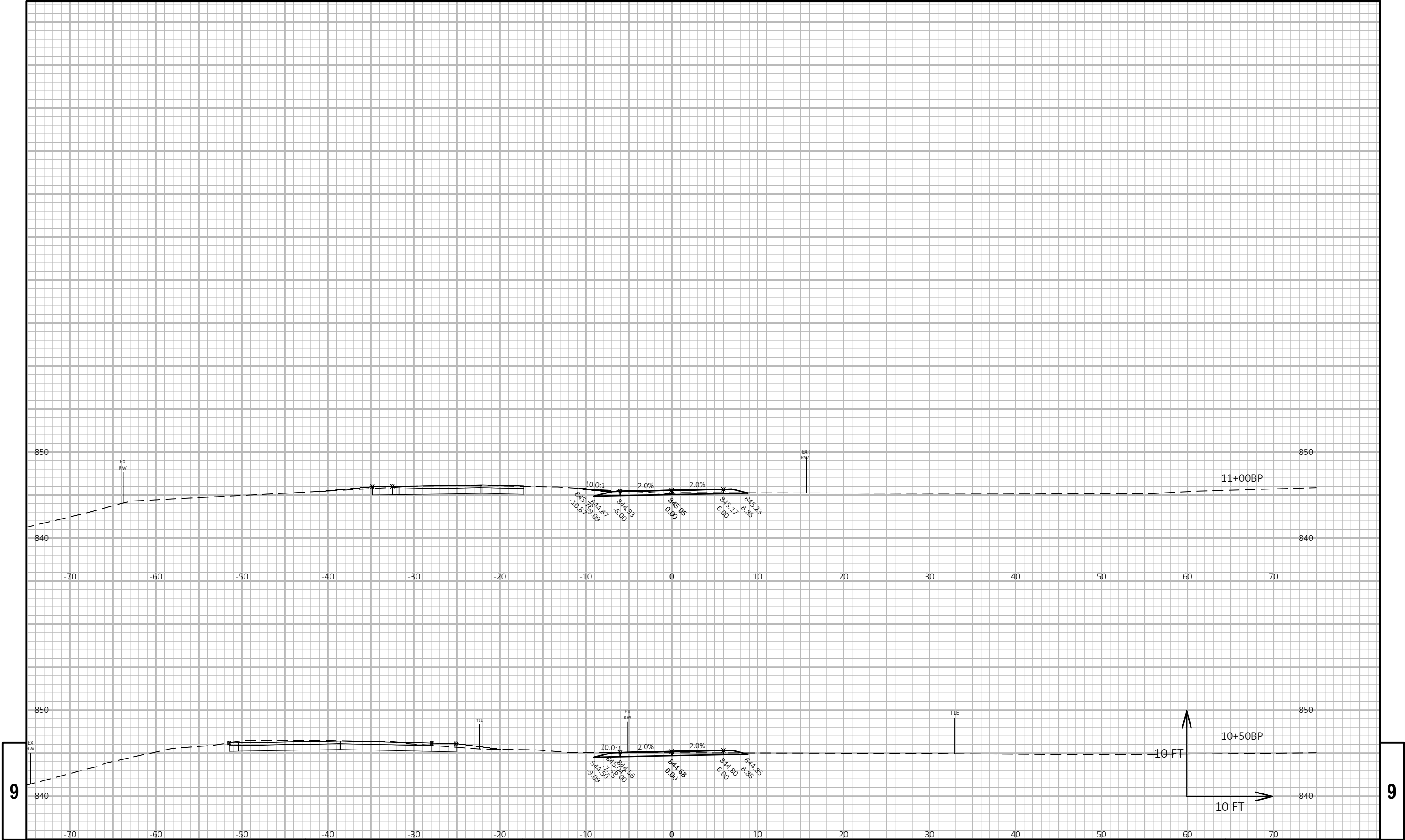




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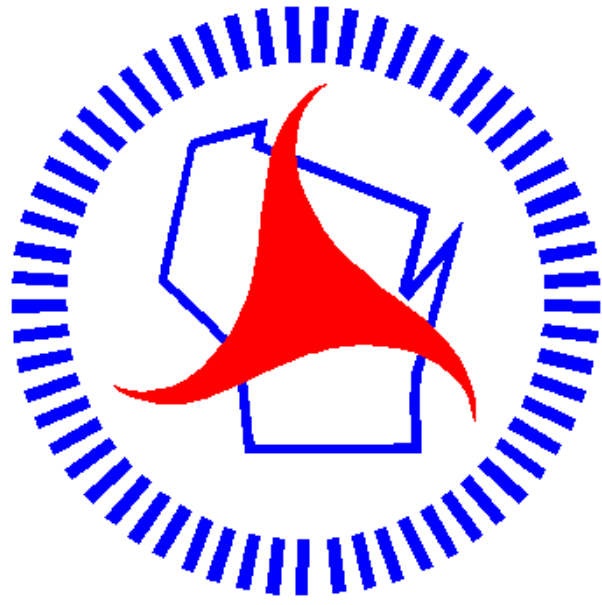
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PROJECT NO: 5289-00-73	HWY: RIVER ROAD	COUNTY: VERNON	CROSS SECTIONS: TEMPORARY BYPASS	SHEET	E
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PROJECT NO: 5289-00-73	HWY: RIVER ROAD	COUNTY: VERNON	CROSS SECTIONS: TEMPORARY BYPASS	SHEET E
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Notes



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