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12

CONTACTS

GENERAL NOTES

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

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 25 PERCENT. ALL FILL VOLUMES SHOWN ARE THE ACTUAL VOLUMES.

ASPHALTIC SURFACE 4" DEPTH TO BE CONSTRUCTED AS FOLLOWS:

- 1 3/4" UPPER LAYER (12.5 mm NOMINAL SIZE AGGREGATE)
- 2 1/4" LOWER LAYER (19 mm NOMINAL SIZE AGGREGATE)

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

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED ARE TO BE TOPSOILED, FERTILIZED, TEMPORARY SEEDED, SEEDED AND MULCHED.

SEED MIXTURE NO. 30 SHALL BE USED ON ALL DISTURBED AREAS, EXCEPT WETLANDS SHALL BE SEEDED WITH MIXTURE NO. 60.

FERTILIZER SHALL NOT BE USED WITHIN 10 FEET OF NAVIGABLE WATERWAYS AND WETLANDS.

WETLAND AREAS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO WORK WITHIN THE SLOPE INTERCEPTS IN THE WETLAND AREAS.

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.

PLAN ELEVATIONS = USGS DATUM, NAVD 88 (2012A)

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

EROSION CONTROL NOTES

RUNOFF COEFFICIENTS FOR THIS PROJECT: EXISTING PAVEMENT 0.95, EXISTING SLOPES 0.30, NEW PAVEMENT 0.95, NEW SLOPES 0.30.

TOTAL PROJECT AREA = 0.59 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.40 ACRES

ELECTRIC OCONTO ELECTRIC COOPERATIVE

PO BOX 168

OCONTO FALLS, WI 54154 ATTN: JACK PARDY TELEPHONE: 920-846-2816

EMAIL: jpardy@ocontoelectric.com

TELEPHONE CENTURY LINK

ATTN: PETER JOHNSON 2425 MARY STREET MARINETTE, WI 54143 TELEPHONE: 920-735-0059

EMAIL: peter.s.johnson@centurylink.com

DNR LIAISON JIM DOPERALSKI

DEPARTMENT OF NATURAL RESOURCES NORTH EAST REGION HEADQUARTERS

2984 SHAWANO AVENUE GREEN BAY, WI 54313 TELEPHONE: 920-662-5119

EMAIL: james.doperalski@wisconsin.gov



PROJECT NO: 9021-06-71

FILE NAME: F:\TRIJOBS\E2192A15\CIVIL 3D 2014\SHEETSPLAN\GEN NOTES

OI

HWY: SUNSHINE RD

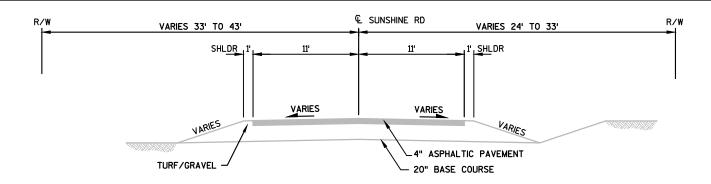
COUNTY: OCONTO

GENERAL NOTES

REV. DATE: 7/11/2017

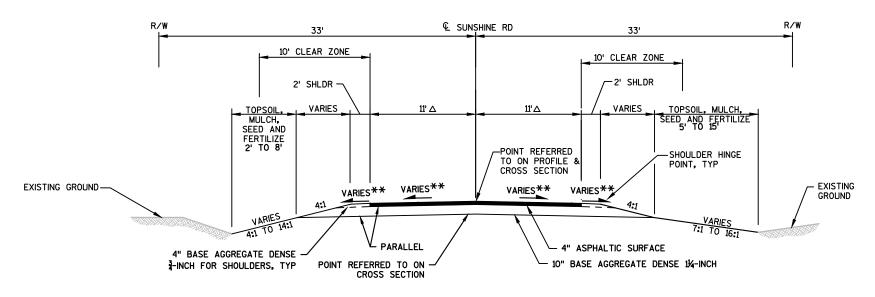
SHEET:





TYPICAL EXISTING SECTION - SUNSHINE RD

STA 8+50.00 TO STA 12+00.00

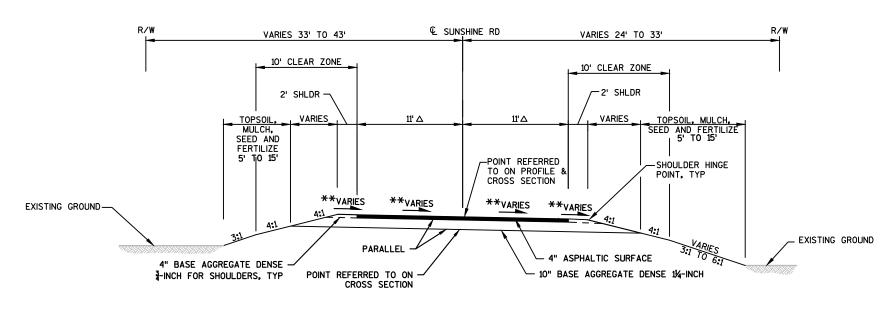


** SUPERELEVATION TRANSITION STATION TO STATION TRANSITIONS 8+50 TO 8+85 EXISTING TO NORMAL CROWN 8+85 TO 9+63 NORMAL CROWN TO REVERSE CROWN 9+63 TO 9+74 REVERSE CROWN TO SUPERELEVATION 2.6% 9+74 TO 10+27 SUPERELEVATION 2.6% (INCLUDES BRIDGE) 10+27 TO 10+52 2.6% TO FULL SUPERELEVATION 3.9% 10+52 TO 11+50 FULL SUPERELEVATION 3.9% 11+50 TO 12+00 FULL SE 3.9% TO EXISTING CROSS-SLOPES

△ 11' LANE WIDENS TO 11' LANE PLUS 4' PAVED SHOULDER AT THE STRUCTURE

TYPICAL FINISHED SECTION - SUNSHINE RD

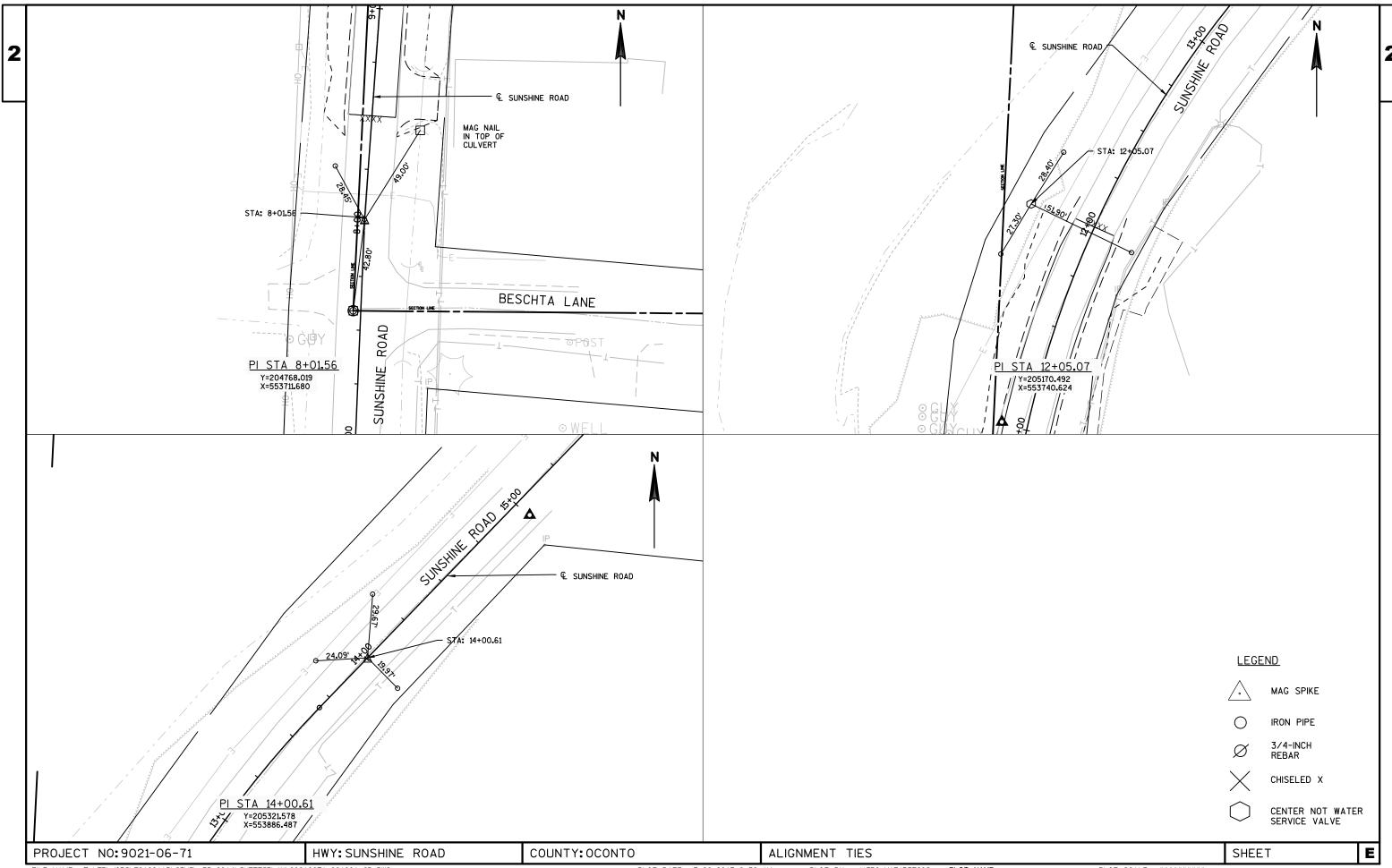
STA 8+50 TO STA 9+74

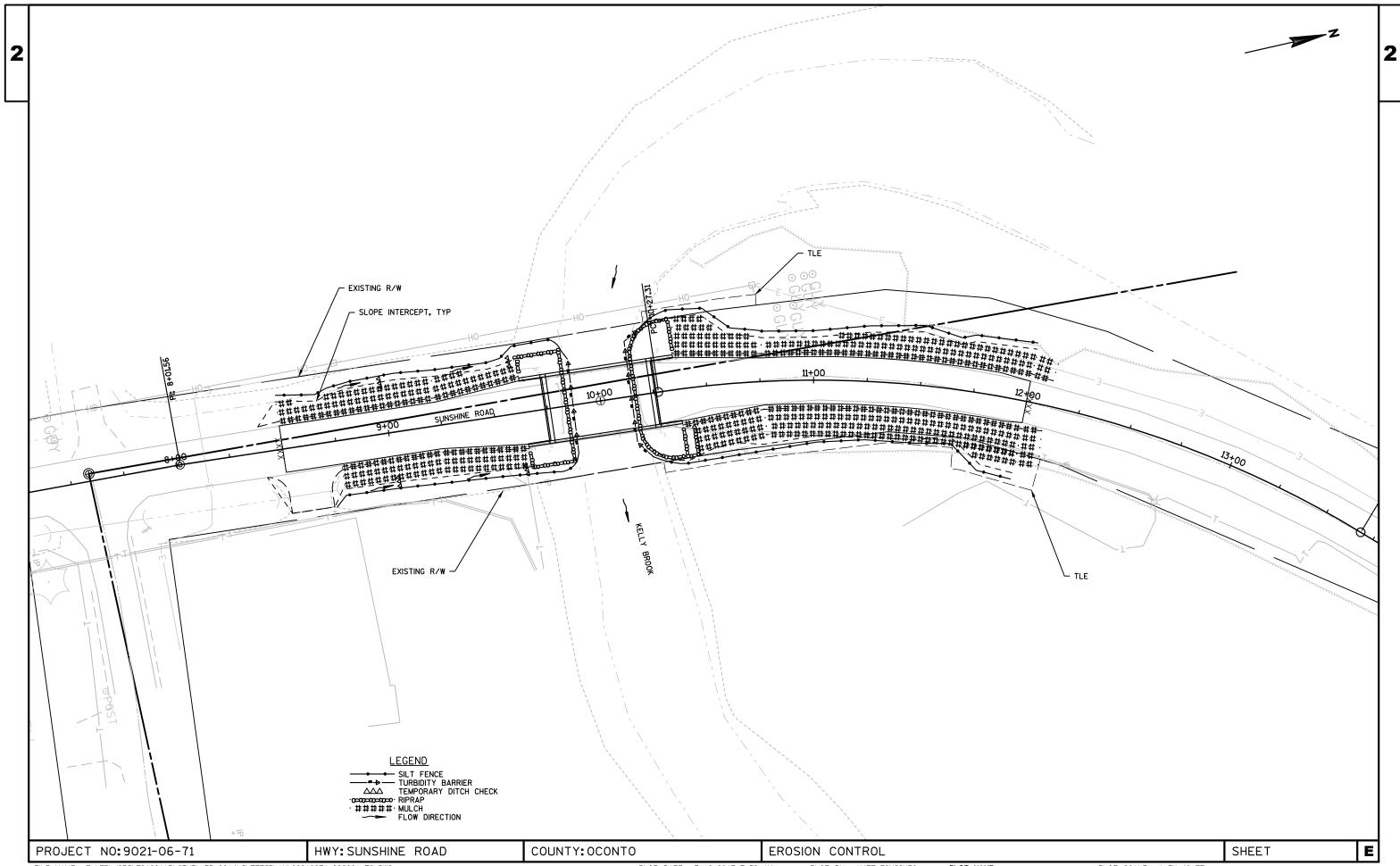


TYPICAL FINISHED SECTION - SUNSHINE RD

STA 10+37 TO STA 12+00

PROJECT NO:9021-06-71 HWY:SUNSHINE RD COUNTY:OCONTO PLAN: TYPICAL SECTIONS SHEET **E**





Page	1
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					9021-06-71
Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	1.000	1.000
0002	203.0600.S	-	LS	1.000	1.000
	200.0000.0	Debris (station) 01. 10+00		1.000	1.000
0006	204.0165	Removing Guardrail	LF	110.000	110.000
8000	205.0100	Excavation Common **P**	CY	350.000	350.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-42-133	LS	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	290.000	290.000
0014	213.0100	Finishing Roadway (project) 01. 9021-06-71	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	60.000	60.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	690.000	690.000
0020	455.0605	Tack Coat	GAL	60.000	60.000
0022	465.0105	Asphaltic Surface	TON	190.000	190.000
0024	502.0100	Concrete Masonry Bridges	CY	212.000	212.000
0026	502.3200	Protective Surface Treatment	SY	241.000	241.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	4,140.000	4,140.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	28,170.000	28,170.000
0032	513.4061	Railing Tubular Type M (structure) 01. B-42-133	LF	150.000	150.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	300.000	300.000
0038	606.0200	Riprap Medium	CY	3.000	3.000
0040	606.0300	Riprap Heavy	CY	135.000	135.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	136.000	136.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	4.600	4.600
0048	625.0100	Topsoil	SY	1,340.000	1,340.000
0050	627.0200	Mulching	SY	1,340.000	1,340.000
0052	628.1504	Silt Fence	LF	810.000	810.000
0054	628.1520	Silt Fence Maintenance	LF	810.000	810.000
0056	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0060	628.6005	Turbidity Barriers	SY	160.000	160.000
0062	628.7504	Temporary Ditch Checks	LF	160.000	160.000
0064	628.7570	Rock Bags	EACH	30.000	30.000
0064	629.0210	Fertilizer Type B	CWT	0.800	0.800
		• •			
0068	630.0130	Seeding Mixture No. 30	LB	23.000	23.000
0070	630.0160	Seeding Mixture No. 60	LB	10.000	10.000
0072	630.0200	Seeding Temporary	LB	19.000	19.000
0074	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000

Page 2

Estimate Of Quantities

					9021-06-71	
Line	Item	Item Description	Unit	Total	Qty	
0078	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0800	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0082	642.5001	Field Office Type B	EACH	1.000	1.000	
0084	643.0420	Traffic Control Barricades Type III	DAY	1,200.000	1,200.000	
0086	643.0705	Traffic Control Warning Lights Type A	DAY	1,920.000	1,920.000	
8800	643.0900	Traffic Control Signs	DAY	840.000	840.000	
0090	643.5000	Traffic Control	EACH	1.000	1.000	
0092	645.0111	Geotextile Type DF Schedule A	SY	84.000	84.000	
0094	645.0120	Geotextile Type HR	SY	200.000	200.000	
0096	646.1005	Marking Line Paint 4-Inch	LF	1,400.000	1,400.000	
0098	650.4500	Construction Staking Subgrade	LF	298.000	298.000	
0100	650.5000	Construction Staking Base	LF	298.000	298.000	
0102	650.6500	Construction Staking Structure Layout (structure) 01. B-42-133	LS	1.000	1.000	
0104	650.9910	Construction Staking Supplemental Control (project) 01. 9021-06-71	LS	1.000	1.000	
0106	650.9920	Construction Staking Slope Stakes	LF	298.000	298.000	
0108	690.0150	Sawing Asphalt	LF	44.000	44.000	
0110	715.0502	Incentive Strength Concrete Structures	DOL	1,272.000	1,272.000	
0112	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000	
0114	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0116	SPV.0060	Special 01. Locate and Replace Existing Land Parcel Monuments	EACH	3.000	3.000	

3

EARTHWORK

Di vi si on	From/To Station	Locati on	205.0100 Common Excavation	Unexpanded Fill	Expanded Fill Factor 1.25	Mass Ordinate +/- (14)	Waste
SOUTH OF BRIDGE	8+25/9+73.75	SUNSHI NE RD	163	8	10	152	152
NORTH OF BRIDGE	10+26. 25/12+25	SUNSHI NE RD	185	28	35	149	149
Rounded Total			350	35	45	305	305

14) 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.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 9021-06-71 HWY: SUNSHINE ROAD COUNTY: OCONTO MISCELLANEOUS QUANTITIES SHEET E

CLEARING & GRUBBING

		201. 0205 GRUBBI NG
STATI ON	LOCATI ON	STATI ON
11+00/12+00 RT	SUNSHI NE	1
	TOTALS	1

REMOVING GUARDRAIL

					204. 0165 REMOVI NG GUARDRAI L						
STATI ON	ТО	STATI ON	DI R	LOCATI ON	LF						
9+57	ı	10+57	LT	SUNSHI NE	55						
9+57	- 1	10+57	RT	SUNSHI NE	55						
	TOTALS										

BASE AGGREGATE DENSE AND WATER

		305. 0110	305.0120	624. 0100
		BASE AGGREGATE	BASE AGGREGATE	
		DENSE 3/4-INCH	DENSE 1 1/4-INCH	WATER
STATION TO STATION	LOCATI ON	TON	TON	MGAL
8+25 - STRUCTURE	SUNSHI NE	20	290	1. 9
STRUCTURE - 12+00	SUNSHI NE	25	400	2. 6
DWY	SUNSHI NE	15		0. 1
TOTALS		60	690	4. 6

LANDSCAPING

						627, 0200	630, 0130	630, 0160	630. 0200	629, 0210
						027.0200				
					625. 0100		SEEDI NG	SEEDI NG	SEEDI NG	FERTI LI ZER
					TOPSOI L	MULCHI NG	NO 30	NO 60	TEMPORARY	TYPE B
STATI ON	T0	STATI ON	DI R	LOCATI ON	SY	SY	LB	LB	LB	CWT
8+40	-	9+65	LT	SUNSHI NE	190	190	3		3	0. 1
8+40	-	9+65	RT	SUNSHI NE	220	220	4		3	0.1
10+35	-	12+10	LT	SUNSHI NE	310	310	5		4	0. 2
10+35	-	12+10	RT	SUNSHI NE	350	350	6		5	0. 2
UNDI STRI BUTED			SUNSHI NE	270	270	5	10	4	0. 2	
TOTALS					1, 340	1, 340	23	10	19	0.8

ASPHALTIC ITEMS

		455. 0605	465. 0105
			ASPHALTI C
		TACK	SURFACE
		COAT	
STATION TO STATION	LOCATI ON	GAL	TON
8+50 - STRUCTURE	SUNSHI NE	35	110
STRUCTURE - 12+00	SUNSHI NE	25	80
	TOTALS	60	190

TURBIDITY BARRIER

		628. 6005
		TURBI DI TY
		BARRI ER
STATI ON	LOCATI ON	SY
9+85	SUNSHI NE ROAD	80
10+10	SUNSHI NE ROAD	80
	TOTAL	160

EROSION CONTROL ITEMS

					628. 1504	628. 1520	628. 1905	628. 1910	628. 7504	628. 7570
								MOBI LI ZATI ONS	TEMPORARY	
						SILT FENCE	MOBILIZATIONS	EMERGENCY	DI TCH	ROCK
					SILT FENCE	MAI NTENANCE	EROSION CONTROL	EROSION CONTROL	CHECKS	BAGS
STATI ON	T0	STATI ON	DIR	LOCATI ON	LF	LF	EACH	EACH	LF	EACH
8+40	-	9+65	LT	SUNSHI NE	140	140			32	
8+40	-	9+65	RT	SUNSHI NE	120	120			32	
10+35	-	12+10	LT	SUNSHI NE	210	210			32	
10+35	-	12+10	RT	SUNSHI NE	180	180			32	
UND)I ST	RI BUTED		SUNSHI NE	160	160	4	2	32	30
				TOTALS	810	810	4	2	160	30

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 9021-06-71 HWY: SUNSHINE ROAD COUNTY: OCONTO MISCELLANEOUS QUANTITIES SHEET

3

SIGNS REFLECTIVE TYPE II & POSTS WOOD

					634. 0614	637. 2230
				SIGN SIZE	POSTS WOOD	SIGNS TYPE II
				HORIZ X VERT	4X6-INCH X 14-FT	RELFECTIVE F
STATI ON	DIR	LOCATI ON	CODE	INXIN	EACH	SF
9+62	LT	SUNSHI NE	W5-52L	12 X 36	1	3
9+62	RT	SUNSHI NE	W5-52R	12 X 36	1	3
10+38	LT	SUNSHI NE	W5-52R	12 X 36	1	3
10+38	RT	SUNSHI NE	W5-52L	12 X 36	1	3
				TOTALS	4	12

TRAFFIC CONTROL ROAD CLOSURE

		643.	0420	643.	0705	643.	0900			
	APROX.	TRAFFIC	CONTROL	TRAFFIC	CONTROL	TRAFFIC	CONTROL			
	SERVI CE	BARRI	CADES	WARNI NG	LIGHTS	SI GNS				
	PERI OD	TYPE	111	TYP	PE A					
LOCATI ON		EA	CH	EA	CH	EA	CH			
		NO.	DAYS	NO.	DAYS	NO.	DAYS			
NORTH OF PROJECT	60	10	600	16	960	7	420			
SOUTH OF PROJECT	60	10	600	16	960	7	420			
			1, 200		1, 920		840			

CONSTRUCTION STAKING

				650. 4500 CONSTRUCTI ON STAKI NG SUBGRADE	650. 5000 CONSTRUCTI ON STAKI NG BASE	CATEGORY 0020 650. 6500 CONSTRUCTI ON STAKING STRUCTURE LAYOUT B-42-133	650. 9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 9021-06-71	650. 9920 CONSTRUCTI ON STAKI NG SLOPE STAKES
STATI ON	то	STATI ON	LOCATI ON	LF	LF	LS	LS	LF
8+50	-	9+74	SUNSHI NE	124	124			124
10+26	-	12+00	SUNSHI NE	174	174			174
PR	OJE	CT.				1		
		TOTAL	S	298	298	1	1	298

REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS

				638. 2602 REMOVI NG	638. 3000 REMOVI NG
				SIGNS TYPE II	SMALL SIGN SUPPORTS
STATI ON	DI R	LOCATI ON	DESCRI PTI ON	EACH	EACH
9+65	LT	SUNSHI NE	OBJECT MARKER	1	1
9+65	RT	SUNSHI NE	OBJECT MARKER	1	1
10+34	LT	SUNSHI NE	OBJECT MARKER	1	1
10+34	RT	SUNSHI NE	OBJECT MARKER	1	1
			TOTALS	4	4

MARKING LINE PAINT

		646	. 1005
		4-I NCH	4-I NCH
		DOUBLE YELLOW	WHI TE
STATI ON	LOCATI ON	LF	LF
8+50 - 12+00	SUNSHI NE	700	700
	TOTAL	1,	400

SAWING ASPHALT

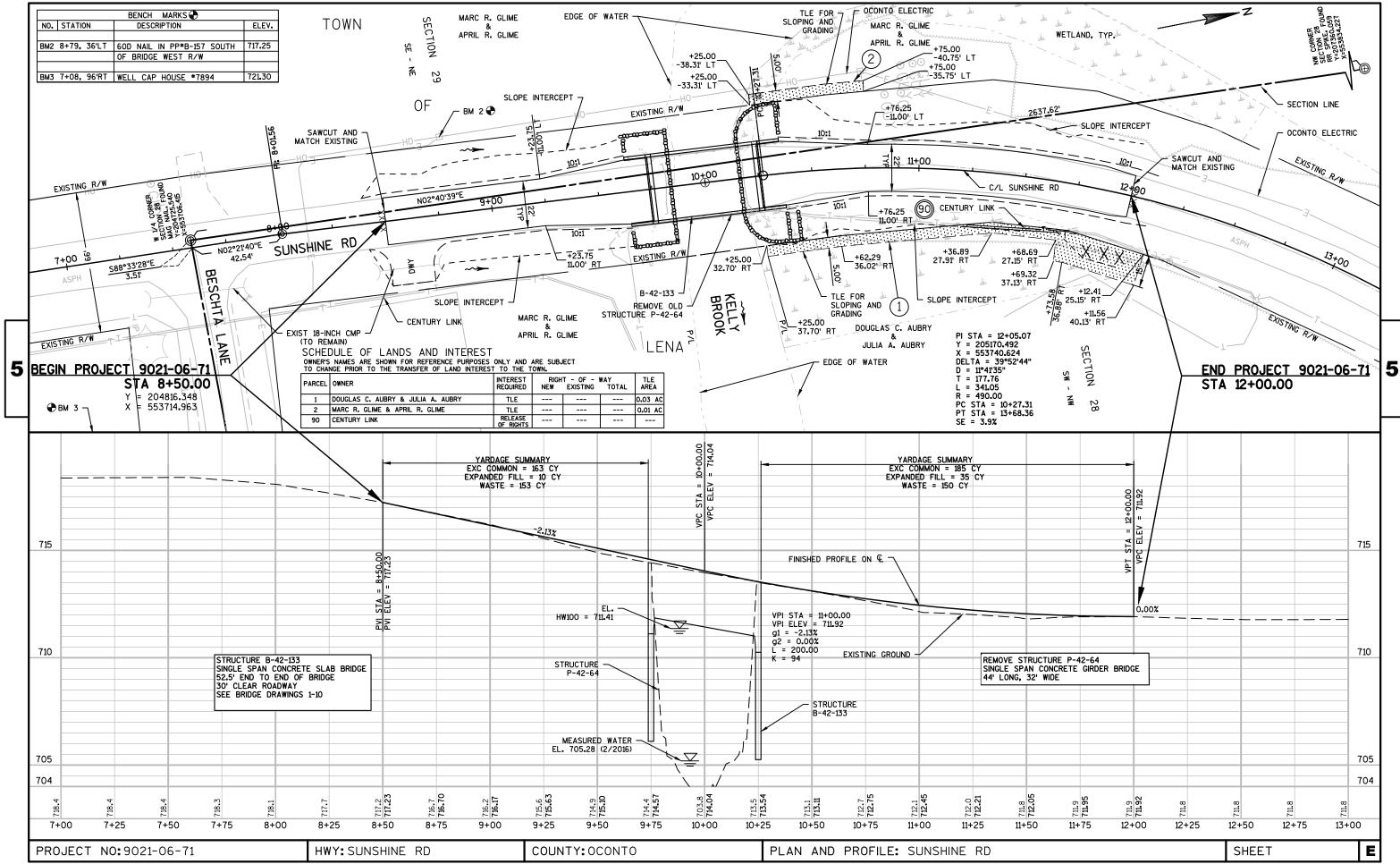
12+00	SUNSHI NE	22
8+50	SUNSHI NE	22
STATI ON	LOCATI ON	LF
		ASPHALT
		SAWI NG
		690. 0150

LOCATE AND REPLACE EXISTING LAND MONUMENTS

				SPV. 0060. 01
				LOCATE AND REPLACE EXISTING
				LAND PARCEL MONUMENTS
STATI ON	DIR	LOCATI ON	DESCRI PTI ON	EACH
10+62	RT	SUNSHI NE	IRON PIN	1
11+37	RT	SUNSHI NE	IRON PIN	1
11+74	RT	SUNSHI NE	IRON PIN	1
			TOTALS	3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 9021-06-71 HWY: SUNSHINE ROAD COUNTY: OCONTO MISCELLANEOUS QUANTITIES SHEET E



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-17A	LONGI TUDI NAL MARKI NG (MAI NLI NE)

6

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.

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.



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 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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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.

- \bigcirc 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 11/8" X 11/8" 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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

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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. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER 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.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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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.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



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

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.) MO5-1 AND MO6-1 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

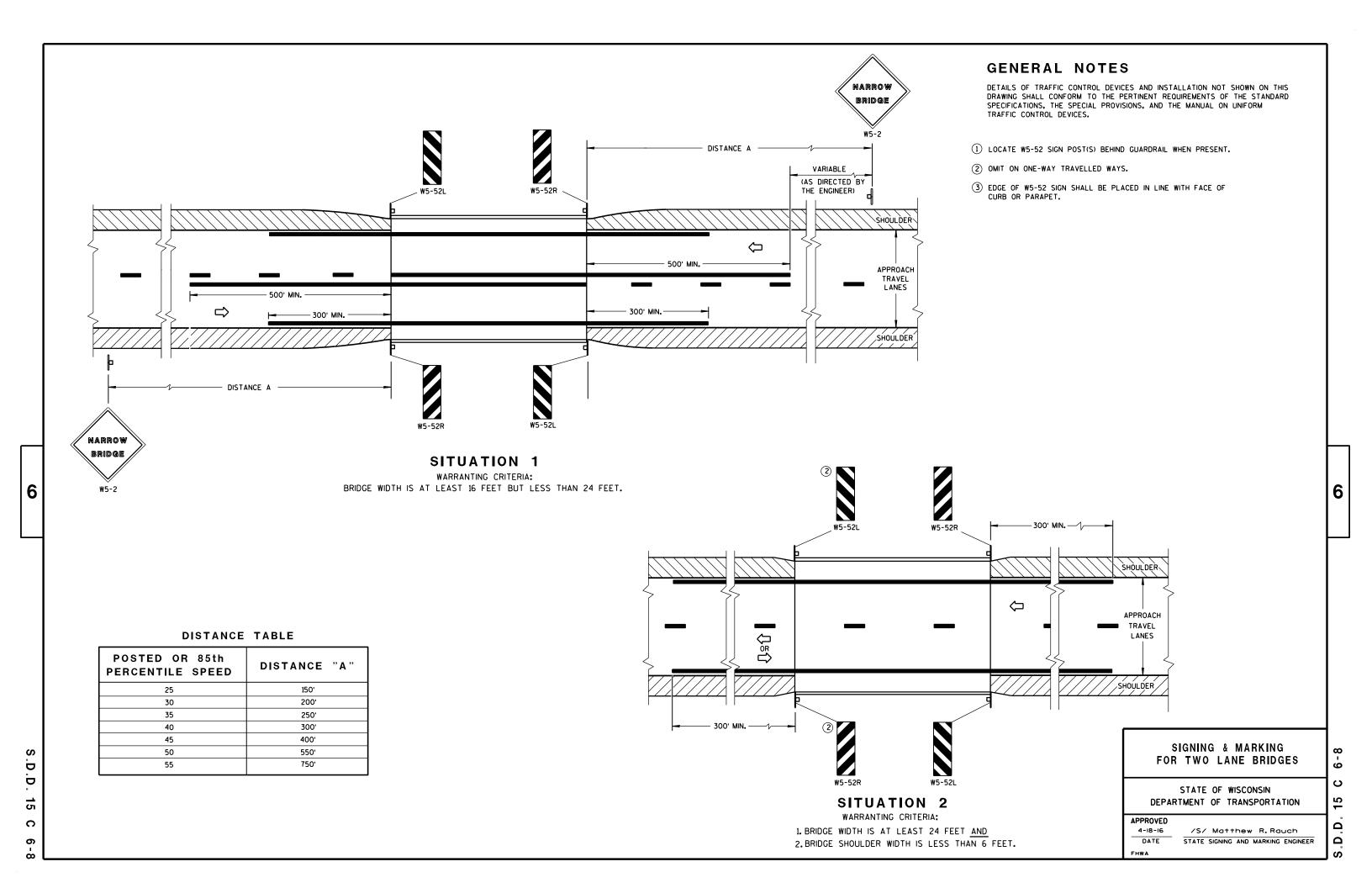
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER







URBAN ARFA



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

** 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.

HWY:

* 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.

PLOT BY : mscj9h

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 $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' (\pm)$.
- 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'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . 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'' (\pm).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



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

Matther R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |

NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C	<u> </u>
	$ \begin{array}{c c} G \\ \hline F \\ \hline H \\ B \\ \hline G \\ \hline \end{array} $
← A	→
R11-2B	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1																											
25	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch

DATE 4/1/11 PLATE NO. R11-2B-2

SHEET NO:

PROJECT NO:



- 1. Sign is Type II Type H Reflective
- 2. Color:

G

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

HWY:

R11-3B

** See Note 5

 $D \rightarrow$

E→

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PLATE NO. R11-3B.3

SHEET NO:

SIZE A В С D 1 3/8 5/8 10 3/4 8 3/8 4 3/4 6 1/2 36 18 1/2 4 3 2 1/2 2 2 13 1/4 2 1/4 3 1 1/2 2 2 6 3/4 7 1/8 4.5 60 30 1 3/8 1/2 4 1/4 3 3/8 20 1/8 13 1/4 1 3/4 17 3/8 13 1/8 3 1/2 12.5 5 10 11 1/8 2M 4 1/4 3 3/8 20 1/8 13 1/4 1 3/4 3 1/2 11 1/8 30 17 3/8 13 1/8 12.5 4 5

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113B.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:46

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 6.896672:1.000000

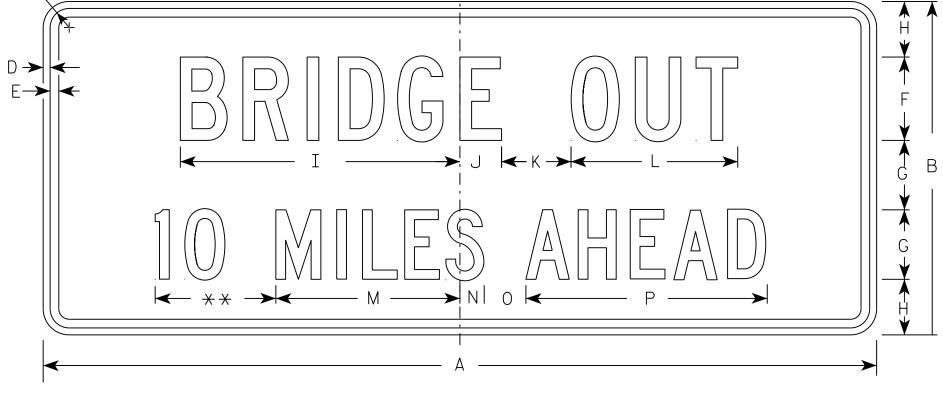
WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

1/4 MILF AH

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	Q	R	S	Т	C	٧	W	Х	Υ	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾		7 1/8									3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

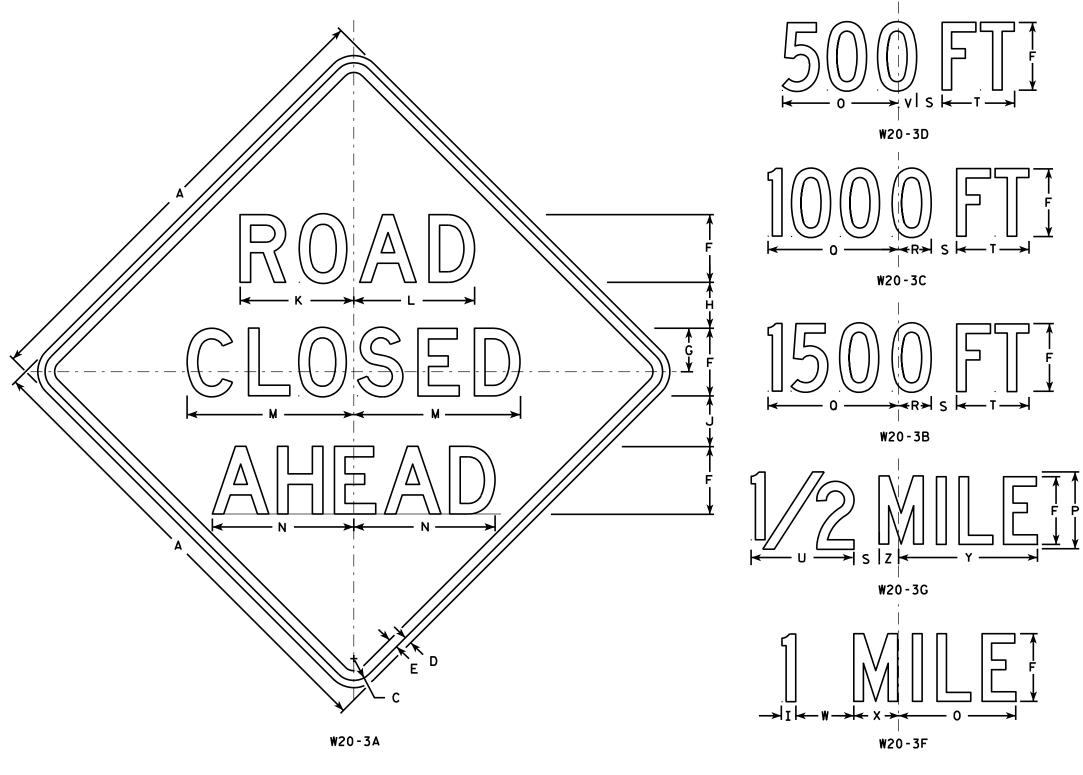
Matther R Rauch
For State Traffic Engineer

DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

SHEET NO:

PROJECT NO:



NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	w	х	Y	Z	Area sq. ft.
1	36		1 %	5/8	3/4	5	3 3/8	3 ½	1 1/8	4	8 3%	8 %	12 1/2	11	9	6	10 1/8	2 1/2	1 %	5 %	8	1 3/8	4 1/2	3 1/2	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	₹4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	₹4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 5/8	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
ت			- /-	/ -	-		1 / 2	- / -	- /2	- /-	/ -	/2	7,4	- 70			10 /2	- 70	- 78	. , 2	78	- 78		- 70	- 70	- 78	

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11

For State Traffic Engineer
PLATE NO. W20-3.7

SHEET NO:

HWY:

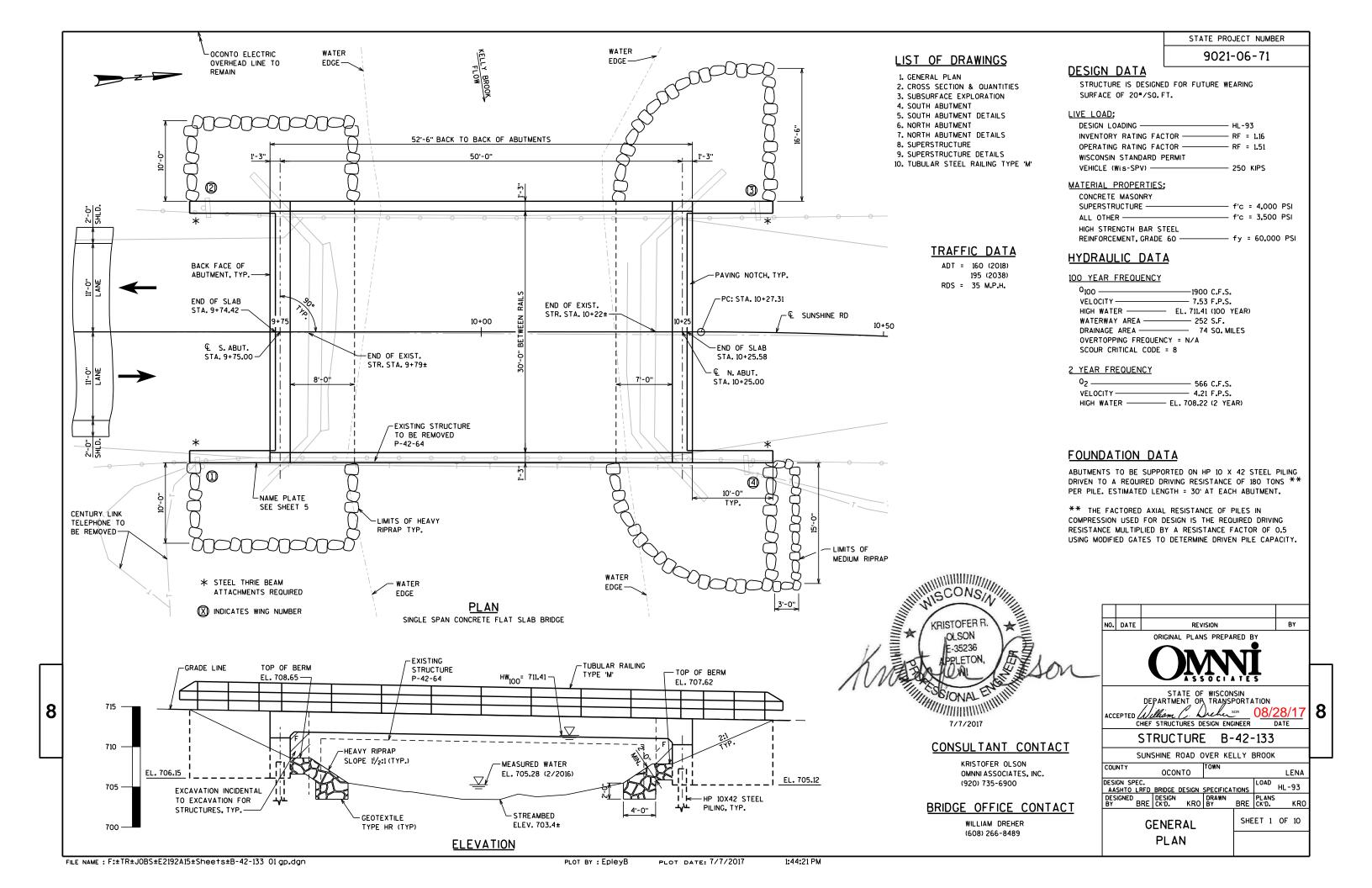
COUNTY:

PLOT NAME :

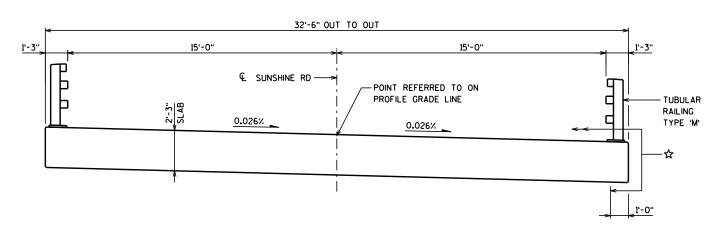
PLOT SCALE: 9.931739:1.000000

PROJECT NO:





9021-06-71



CROSS SECT. THRU RDWY.

LOOKING UPSTATION

BENCH MARKS (NAVD 88)

8

NO.	STATION	DESCRIPTION	ELEV.
BM 2	8+79, 36'LT.	60D NAIL IN PP# B-157	717.25
ВМ 3	7+08, 96' RT.	WELL CAP NORTH OF HOUSE #7894, SHOT "S" IN WORD LUISIER	721.30

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	NORTH ABUT.	TOTALS
203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA 10+00	LS	1			1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-42-133	LS	1			1
210.1500	BACKFILL STRUCTURE TYPE A	TON		150	140	290
502.0100	CONCRETE MASONRY BRIDGES	CY	146	33	33	212
502.3200	PROTECTIVE SURFACE TREATMENT	SY	241			241
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,070	2,070	4,140
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	25,210	1,490	1,470	28,170
513.4061	RAILING TUBULAR TYPE M B-42-133	LF	150			150
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		9	9	18
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		150	150	300
606.0200	RIPRAP MEDIUM	CY			3	3
606.0300	RIPRAP HEAVY	CY		60	75	135
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		68	68	136
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		42	42	84
645.0120	GEOTEXTILE TYPE HR	SY		90	110	200
	NON-BID ITEMS					
	FILLER	SIZE				1/2"&3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

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

AT THE BACKFACE OF ABUTMENTS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

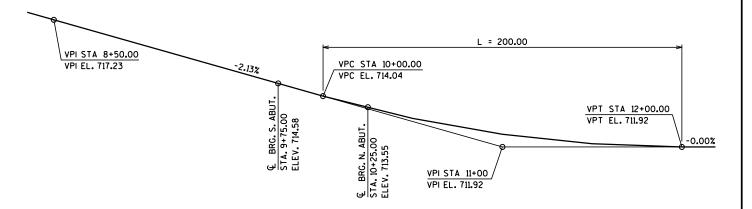
THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE 'HR' TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

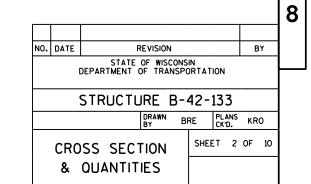
THIS BRIDGE WILL REPLACE THE EXISTING CAST-IN-PLACE CONCRETE GIRDER BRIDGE SUPPORTED ON FULL RETAINING CONCRETE ABUTMENTS. THE STRUCTURE WAS BUILT IN 1919.

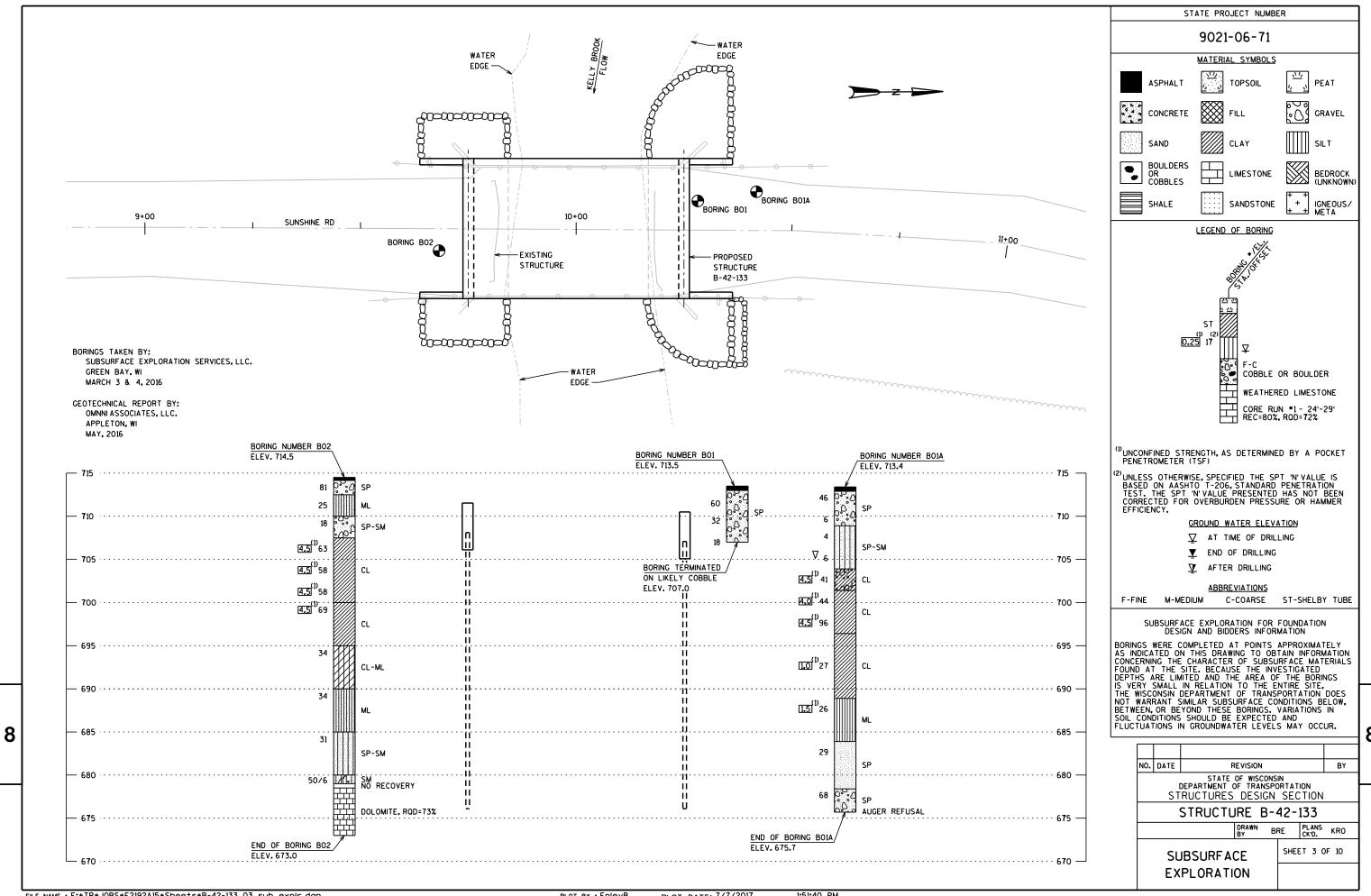
☆ PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP, SIDES, AND EXTERIOR 1'-0" OF THE UNDERSIDE OF THE DECK, TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT.

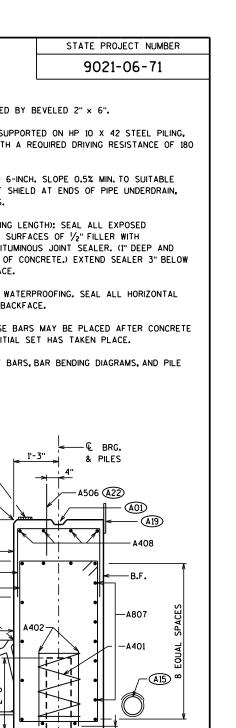
AT ABUTMENTS CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.



PROFILE GRADE LINE





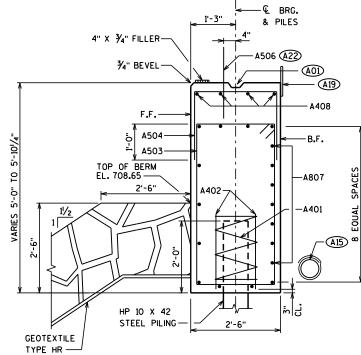


LEGEND

- (AOI) KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- A06 SOUTH ABUTMENT TO BE SUPPORTED ON HP 10 X 42 STEEL PILING. ESTIMATED 30'-O" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE SHEET 5 FOR DETAILS.
- A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE.) EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- (A22) A506 BARS AT 1'-0". THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

SEE SHEET 5 FOR BILL OF BARS, BAR BENDING DIAGRAMS, AND PILE SPLICE DETAILS.

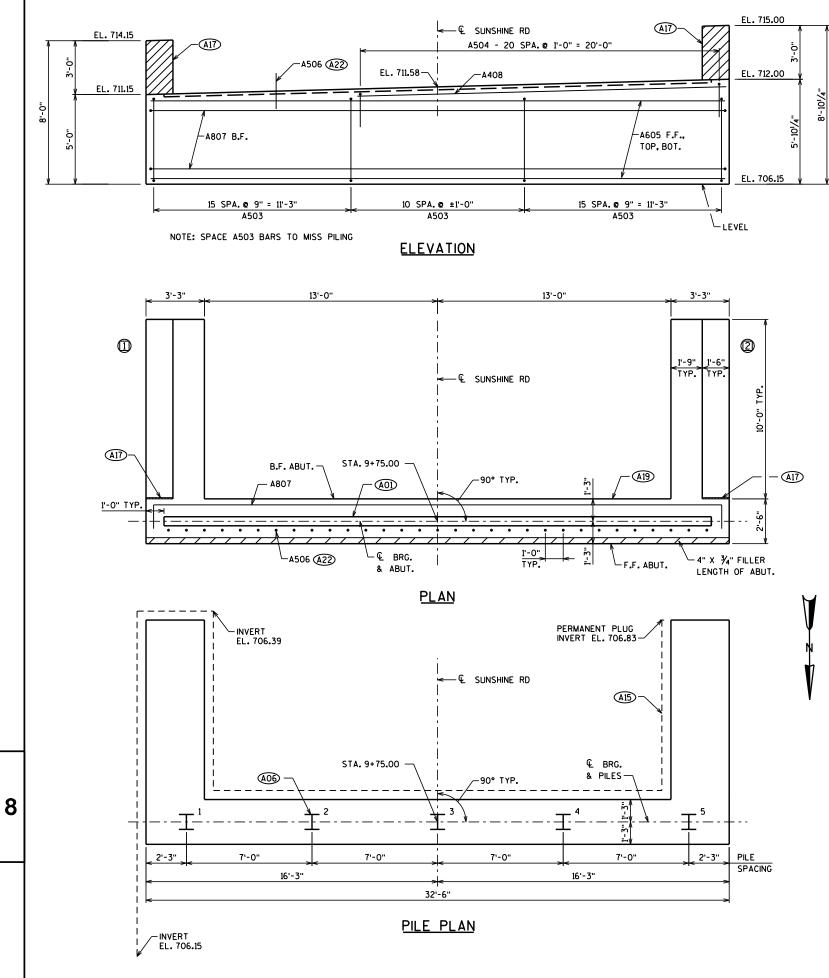
X INDICATES WING NUMBER.

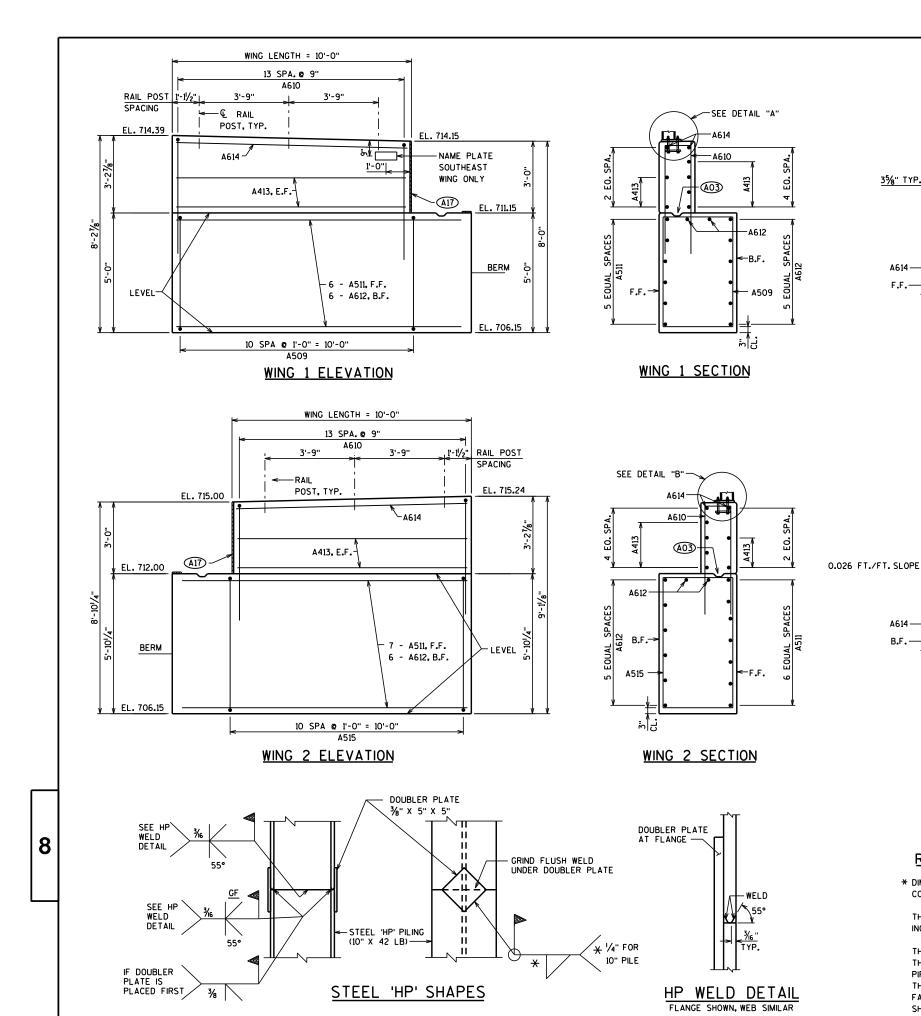




NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-42-133 DRAWN MRW PLANS BRE SHEET 4 OF 10 SOUTH **ABUTMENT**

8



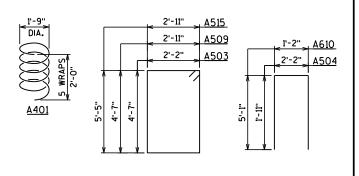


BILL OF BARS

0.026 FT./FT. SLOPE

STATE PROJECT NUMBER 9021-06-71

BAR MARK	COAT	NO. REO'D.	LENGTH	BENT	LOCATION
A401		5	28'-0"	x	BODY - ONE PER PILE
A402		10	2'-3"		BODY - TWO PER PILE
A503		41	14'-2"	х	BODY - STIRRUPS
A504		21	5'-9"	х	BODY - VERTICAL, TOP
A605		11	32'-2"		BODY - HORIZONTAL
A506	х	31	2'-0"		BODY - VERTICAL, DOWEL
A807		7	34'-5"	х	BODY - HORIZONTAL B.F.
A408		4	20'-0"		BODY - HORIZONTAL, TOP
A509	х	11	15'-8"	х	WINGS - STIRRUPS, WALL 1
A610	х	28	11'-0"	х	WINGS - VERTICAL
A511	х	13	12'-2"		WINGS - HORIZONTAL, F.F.
A612	х	16	11'-11"		WINGS - HORIZONTAL, B.F. & TOP
A413	х	12	9'-7"		WINGS - HORIZONTAL
A614	х	4	9'-7"		WINGS - HORIZONTAL-TOP
A515	Х	11	17'-4"	Х	WINGS - STIRRUPS, WALL 2



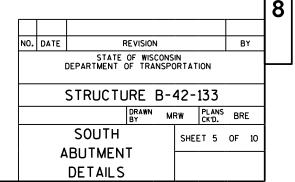


32'-2"

BAR BENDING DIAGRAMS

LEGEND

- (AO3) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2" X 6". (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED.)
- A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.



THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE

SECTION B-B

A610

INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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

PLOT BY : epleyb

3%" TYP.

DETAIL"A"

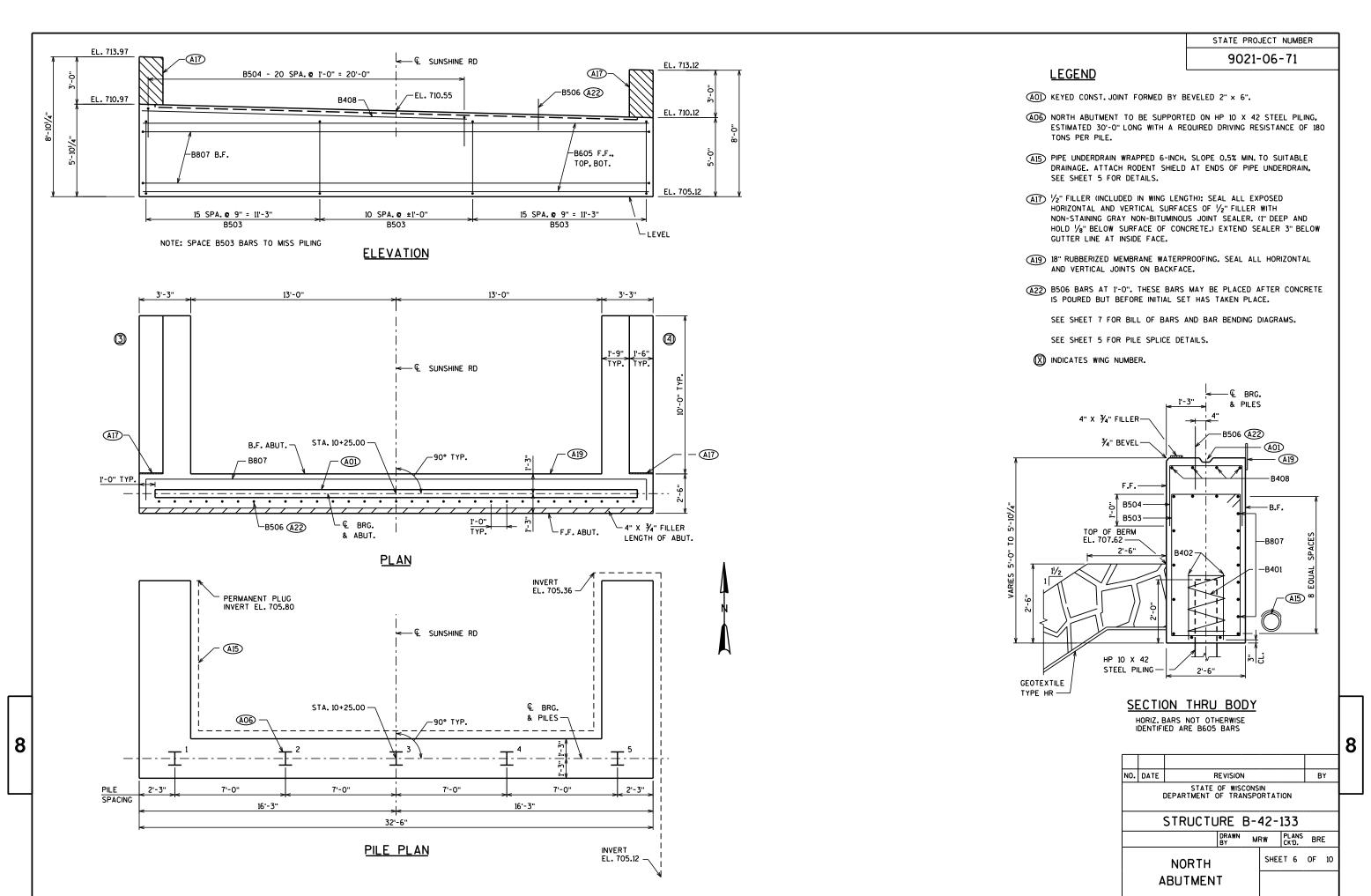
DETAIL"B"

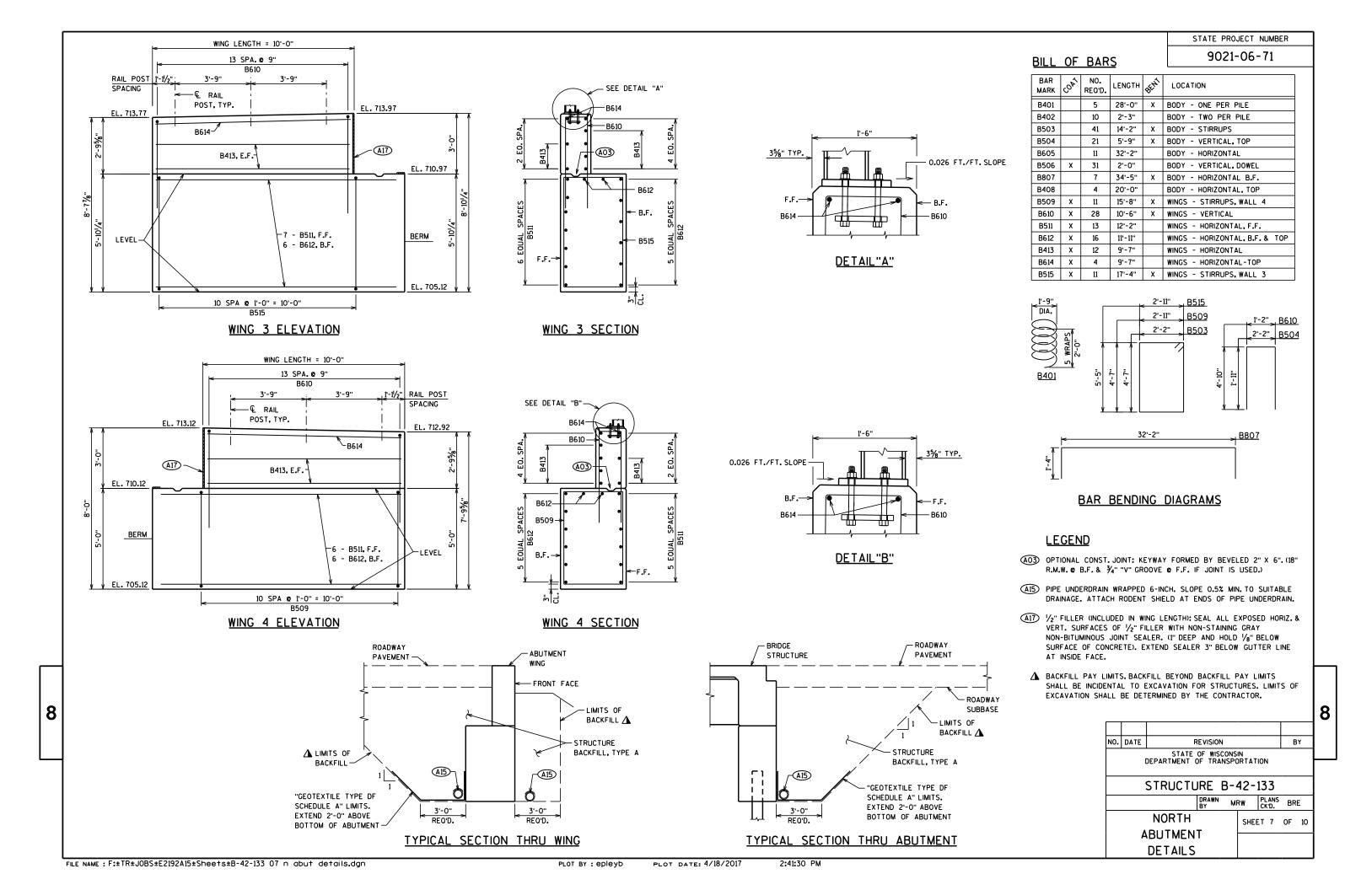
6" NOMINAL

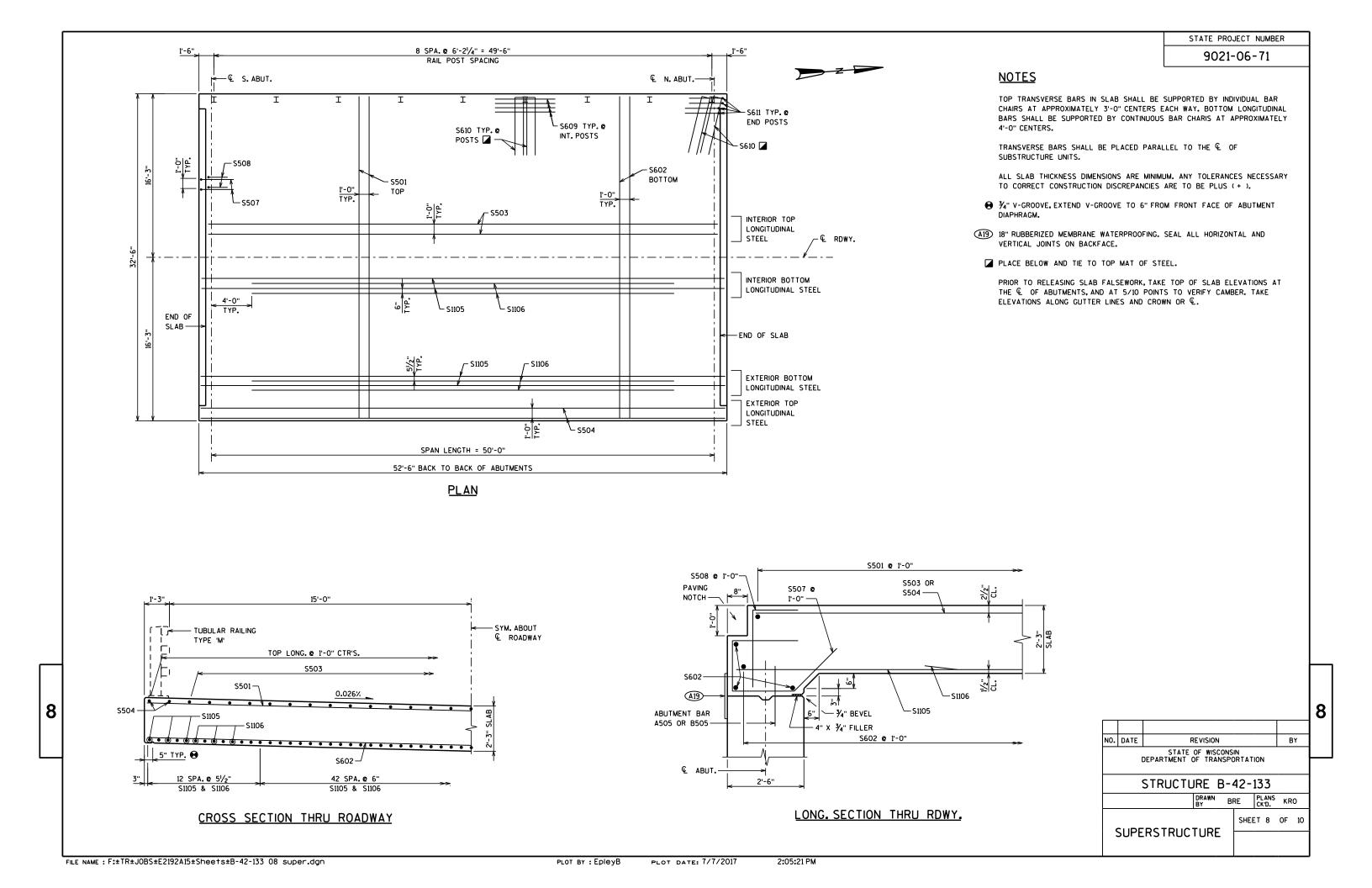
RODENT SCREEN DETAIL

COUPLING. ORIENT SO SLOTS ARE VERTICAL.

3/8" MAX.

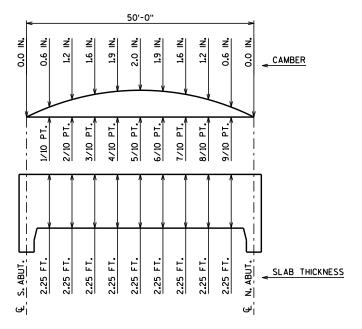






STATE PROJECT NUMBER

9021-06-71



CAMBER DIAGRAM

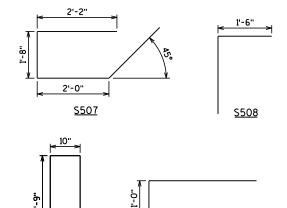
CAMBER IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS.
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD
DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT
INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

TOP OF DECK ELEVATIONS

LOCATION	S.ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N.ABUT.
W. EDGE	715.00	714.90	714.79	714.68	714.58	714.47	714.37	714.27	714.17	714.07	713.97
C/L	714.58	714.47	714.36	714.26	714.15	714.05	713.94	713.84	713.74	713.64	713.55
E. EDGE	714.15	714.04	713.94	713.83	713.72	713.62	713.51	713.41	713.31	713.21	713.12

BILL OF BARS

BAR MARK	coar	NO. REO'D.	LENGTH	BENT	LOCATION	
S501	х	52	32'-2"		TRANSVERSE TOP	
S602	х	59	32'-2"		TRANSVERSE BOTTOM	
S503	х	29	50'-10"		LONGITUDINAL TOP	
S504	х	4	52'-2"		LONGITUDINAL TOP OUTSIDE	
S1105	х	34	52'-2"		LONGITUDINAL BOTTOM	
S1106	х	33	42'-0"		LONGITUDINAL BOTTOM	
S507	х	66	7'-8"	х	END OF SLAB	
S508	х	66	3'-11"	х	END OF SLAB	
S609	х	56	6'-0"		AT RAIL POSTS	
S610	х	36	12'-0"	х	AT RAIL POSTS	
S611	х	16	4'-11"	х	AT END RAIL POSTS	



BAR BEND DIAGRAMS

<u> 5610</u>

<u> S611</u>

NO. DATE REVISION BY

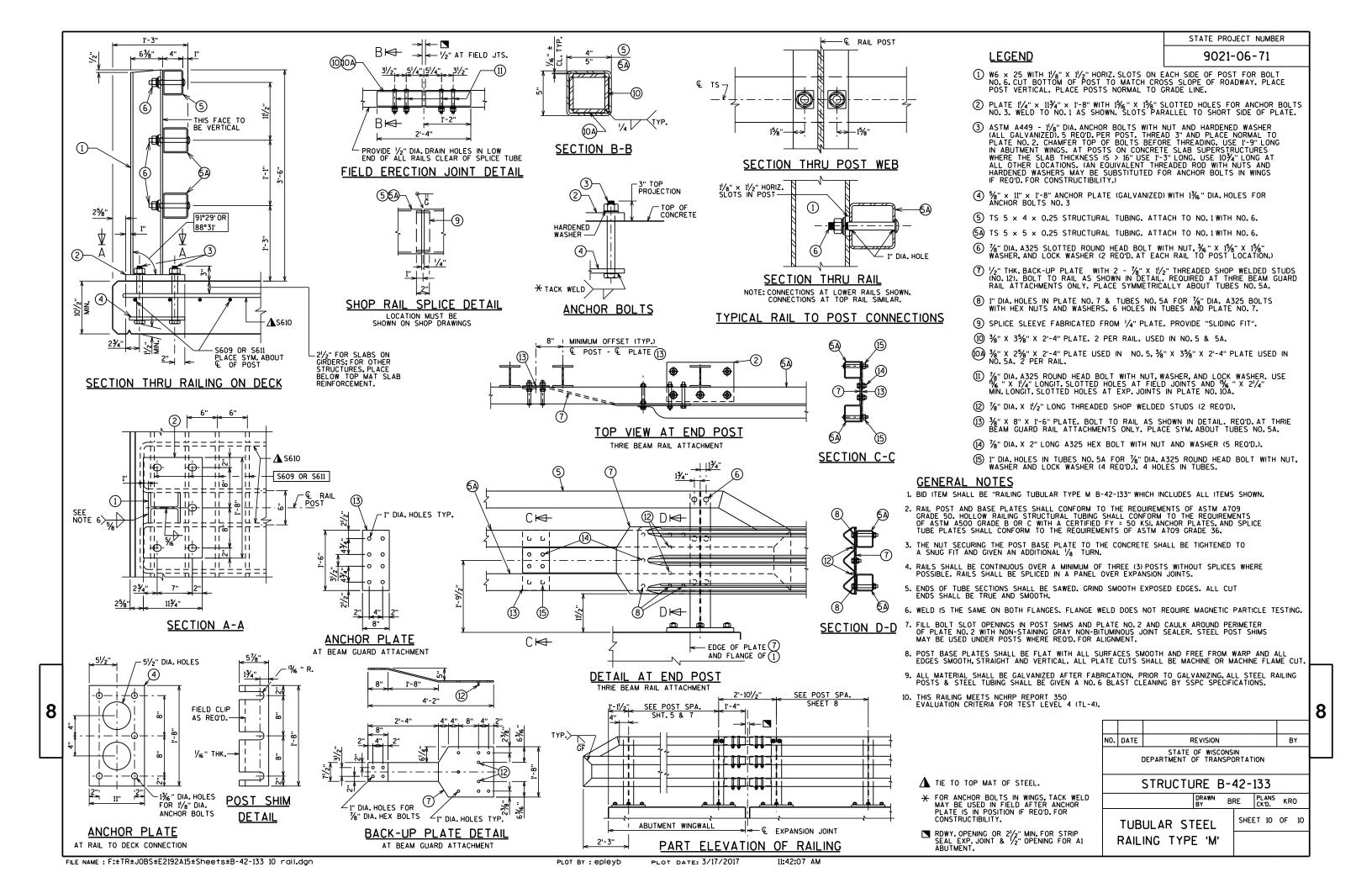
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-42-133

DRAWN BRE PLANS KRO
BY BRE CK'D. KRO

SUPERSTRUCTURE
DETAILS

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EARTHWORK

	AREA (SF)		Incremental Vol	(CY) (Unadjusted)	Cumulativ	Cumulative Vol (CY)	
STATION	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
08+25	0.00	0. 00	0	0	0	0	0
08+50	39. 05	2. 11	18	1	18	1	17
08+75	40. 57	0.00	37	1	55	2	52
09+00	39. 67	0.00	37	0	92	2	90
09+06. 14	37. 94	0.00	9	0	101	2	98
09+23. 75	32. 26	0.00	23	0	124	2	121
09+25	31. 83	0.00	1	0	125	2	123
09+50	24. 49	2. 26	26	1	151	4	148
09+57.64	21. 53	10. 76	7	2	158	6	152
09+63.75	20. 28	19. 88	5	3	163	10	152
09+73. 75	19. 51	1. 61	0	0	163	10	152
STRUCTURE							
10+26. 25	29. 55	0. 05	0	0	163	10	152
10+27. 31	29. 45	0. 03	1	0	164	10	153
10+36.54	28. 89	44. 99	10	8	174	20	154
10+50	30. 59	10. 20	15	14	189	37	151
10+61.64	32. 28	2. 59	14	3	202	41	161
10+75	31. 43	0. 79	16	1	218	42	176
10+76. 25	31. 23	0. 67	1	0	219	42	178
11+00	21. 32	0. 44	23	0	242	42	200
11+25	21. 75	1. 34	20	1	262	43	219
11+50	19. 05	1. 55	19	1	281	45	236
11+66. 66	28. 46	0. 00	15	0	296	46	250
11+75	34. 92	0. 03	10	0	306	46	260
11+83. 33	41. 96	0. 00	12	0	318	46	272
12+00	53. 89	0.00	30	0	347	46	301

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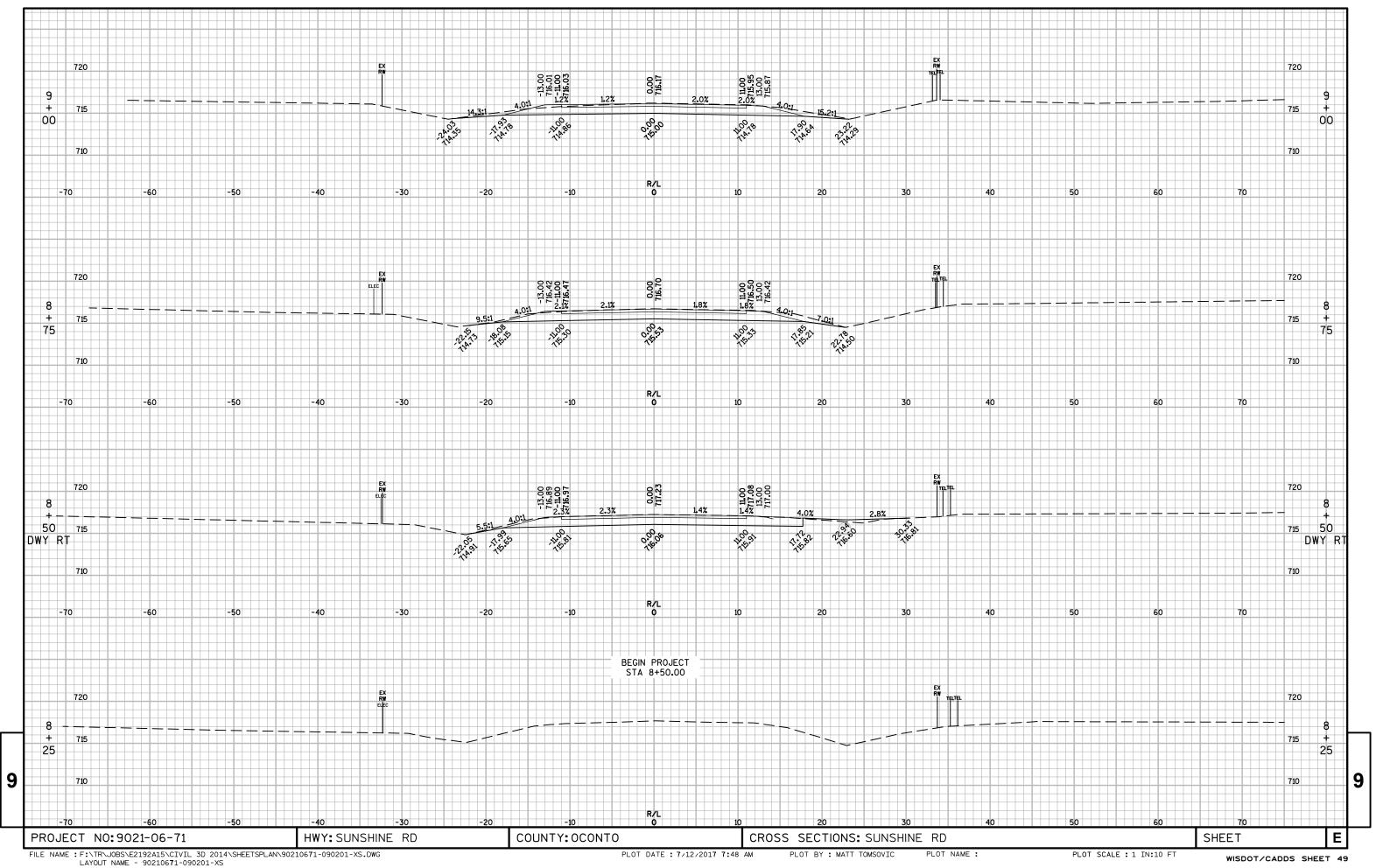
PROJECT NO: 9021-06-71 HWY:SUNSHINE ROAD COUNTY: OCONTO EARTHWORK QUANTITIES SHEET NO:

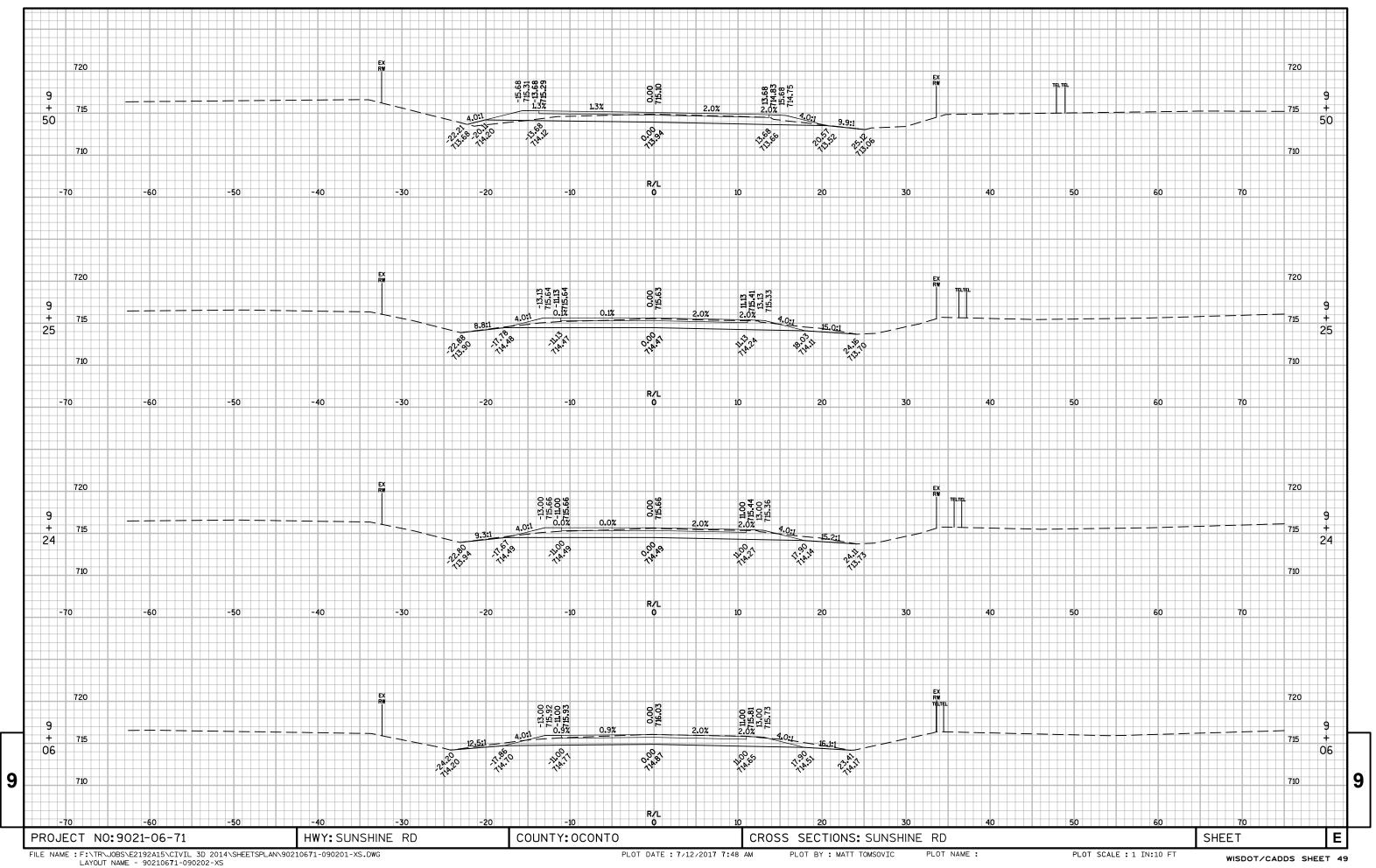
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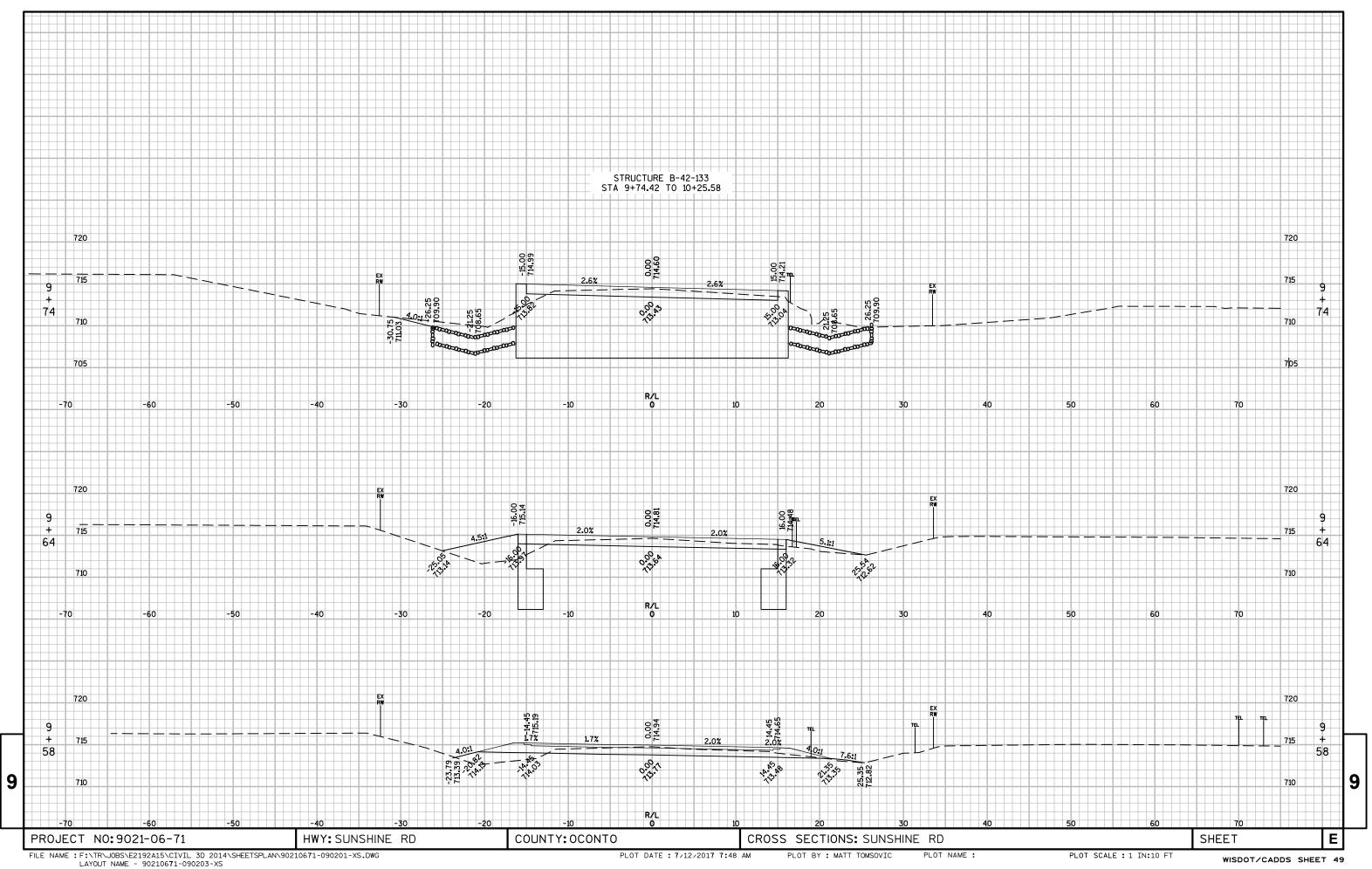
ORIGINATOR: OMNNI ASSOCIATES

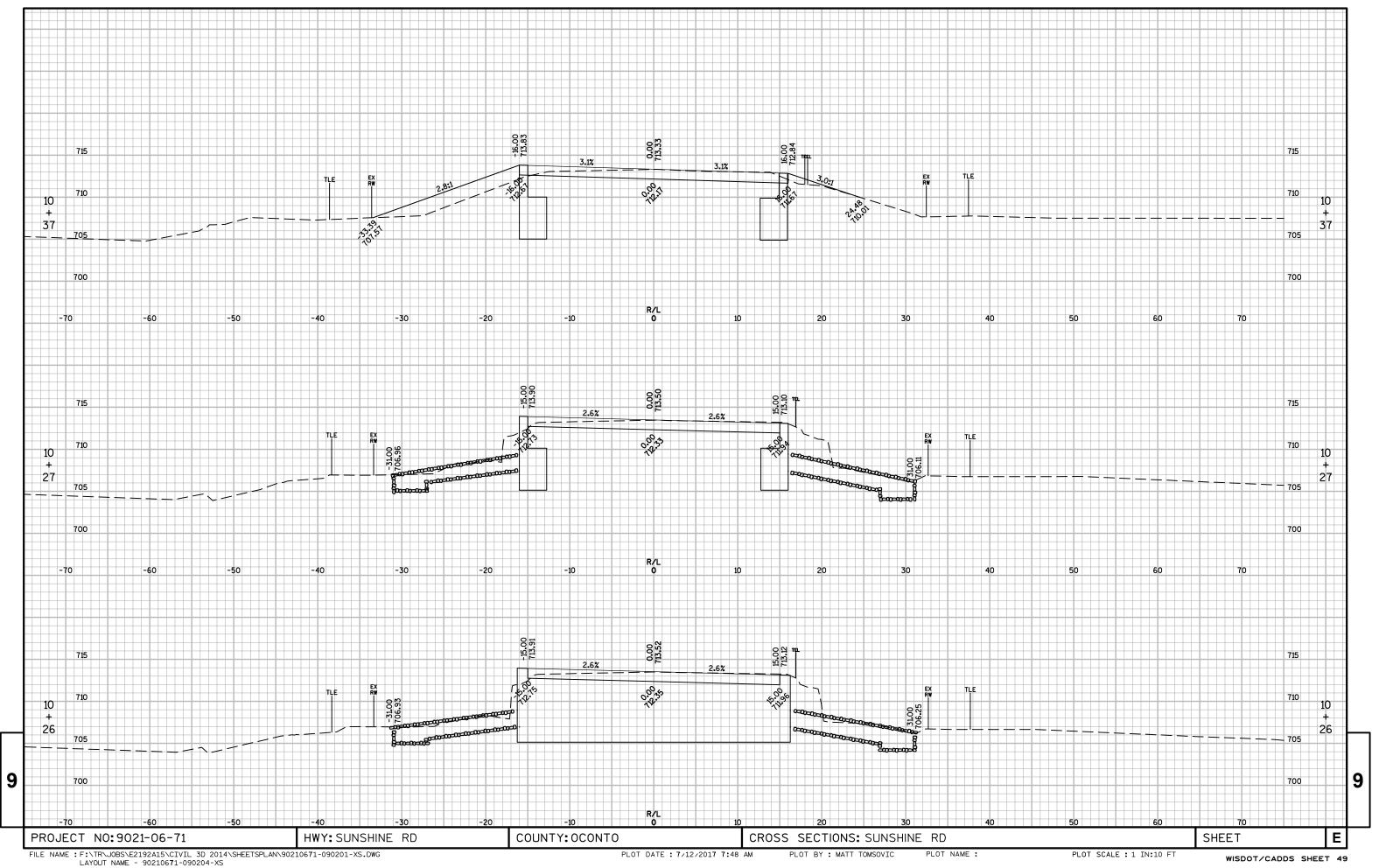
ORIG. DATE: APRIL 6, 2015

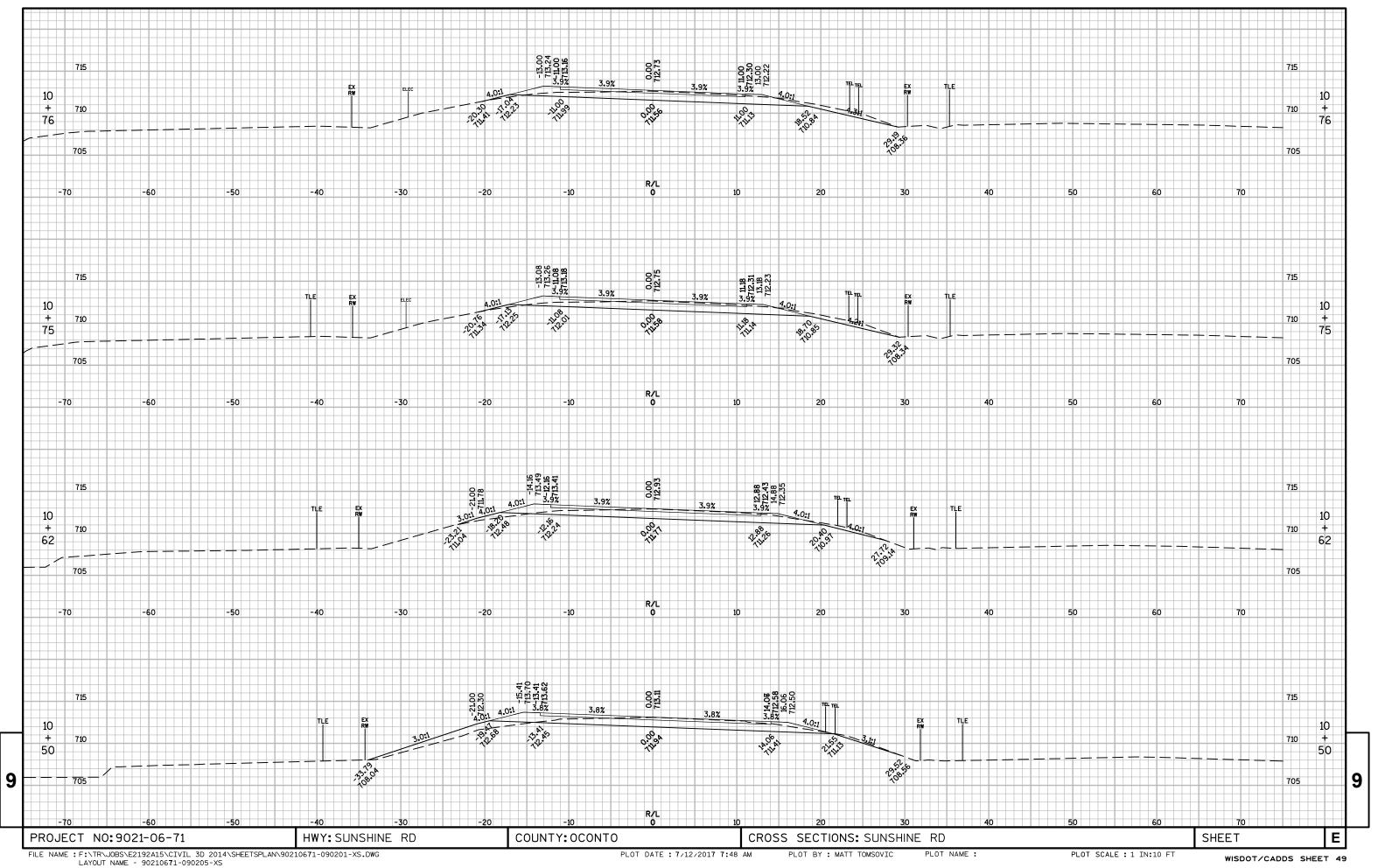
PRINT DATE: April 26, 2017

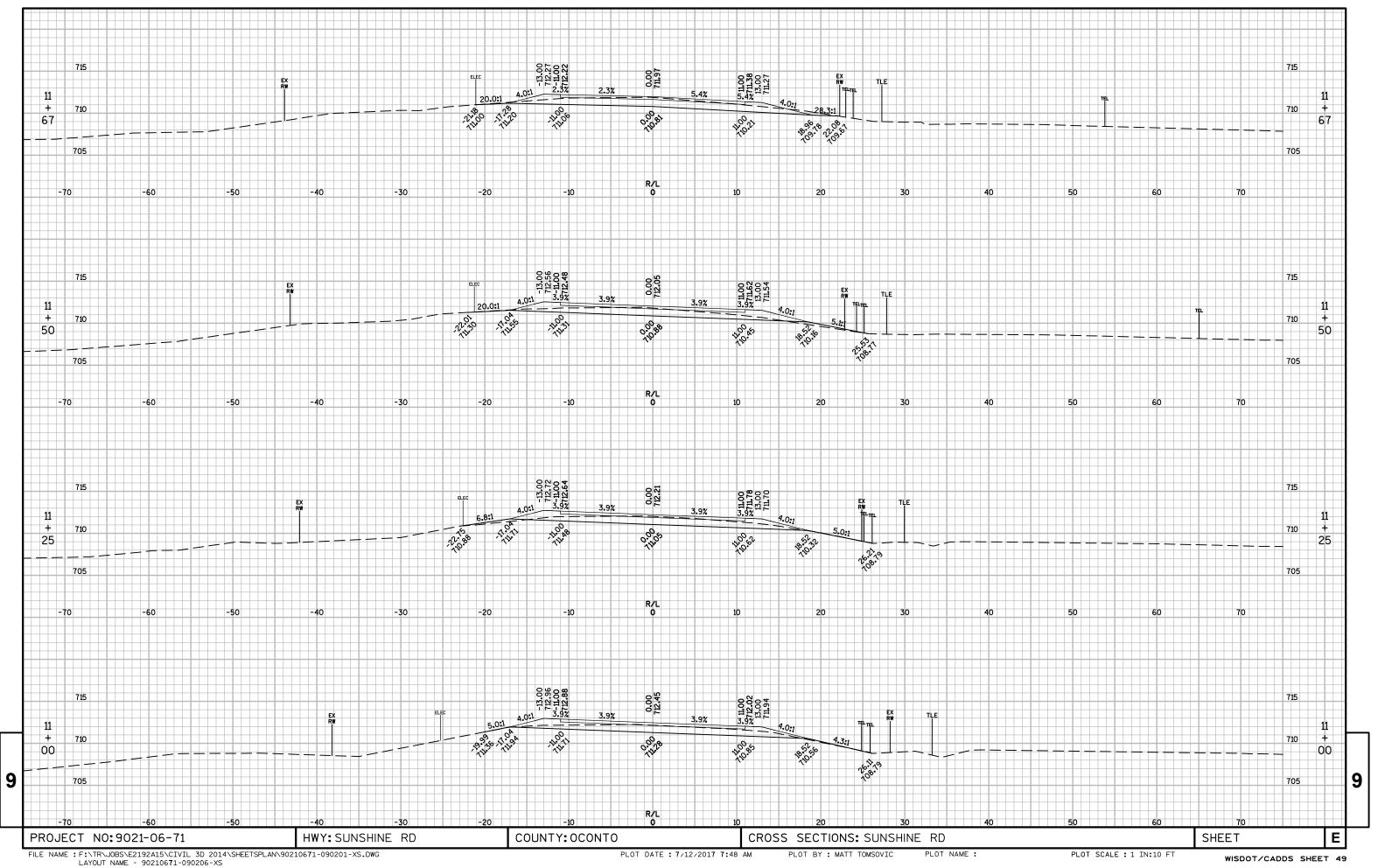


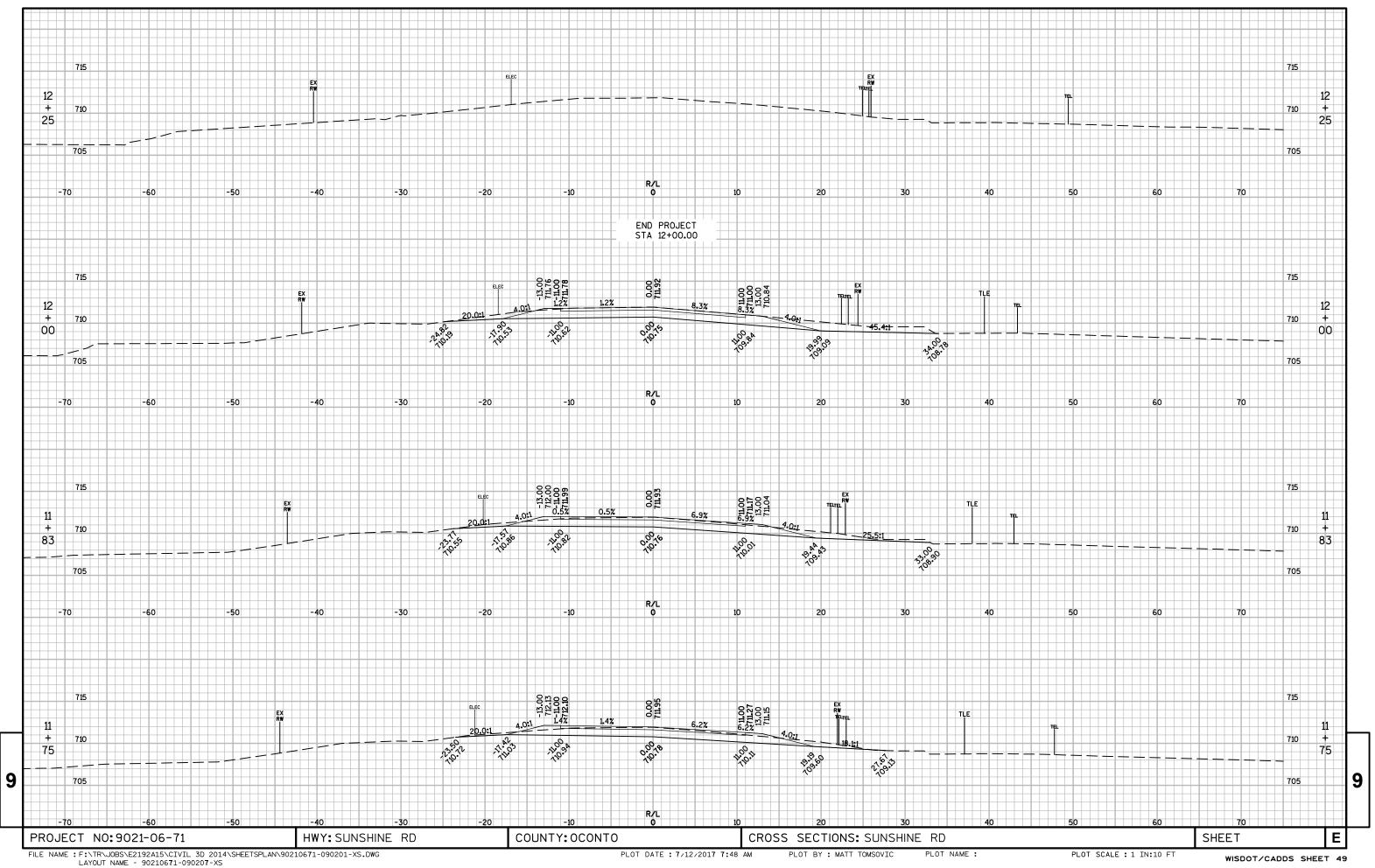












Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov