

LICT OF CTANDARD ARRESTATIONS

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND EROSION MATTED AS DIRECTED BY THE ENGINEER. AVOID PLACING FERTILIZER TYPE B NEAR WET

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND IN PLACE PRIOR TO STRUCTURE REMOVAL.

EROSION MAT ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STORE/STOCKPILE MATERIALS BEYOND THE EXISTING TOE OF SLOPE.

4-INCH OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 134-INCH UPPER LAYER AND A 21/4-INCH LOWER LAYER.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN.

CONTACTS

DNR LIAISON

STATE OF WISCONSIN DNR NORTHEAST REGION HQ 2984 SHAWANO AVE. GREEN BAY, WI 54313 ATTN: JAY SCHIEFELBEIN PHONE: (920) 360-3784 EMAIL: jeremiah.schiefelbein@wi.gov

UTILITIES

ELECTRICITY

ALLIANT ENERGY ATTN: JASON HOGAN 4902 NORTH BILTMORE LANE, SUITE 1000 MADISON, WI 53718 OFFICE: (608) 458-4871 CELL: (608) 395-7395

EMAIL: jasonhogan@alliantenergy.com

COMMUNICATION LINE

TDS TELECOM ATTN: STEVE JAKUBIEC 10 COLLEGE AVENUE, SUITE 218A APPLETON, WI 54911 PH: (920) 882-4166 EMAIL: steve.jakubiec@tdstelecom.com

ELECTRICITY - TRANSMISSION

AMERICAN TRANSMISSION COMPANY, LLC ATTN: TONY MARCINIAK W234 NORTH 2000 RIDGEVIEW PARKWAY COURT PO BOX 47 WAUKESHA, WI 53187

OFFICE: (608) 506-6814 EMAIL: tmarciniak@atcllc.com

		HIDROLOGIC SOIL GROOF											
A			В		С			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 8	& 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	ASPHALT .7095												
CONCRETE	CONCRETE .8095												
BRICK .7080													
DRIVES, WALKS	DRIVES, WALKS .7585												
ROOFS	ROOFS .7595												
GRAVEL ROADS	, SHO	ULDEF	RS			.40 -	.60						

HYDROLOGIC SOIL GROUP

TOTAL PROJECT AREA= 0.47 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.37 ACRES



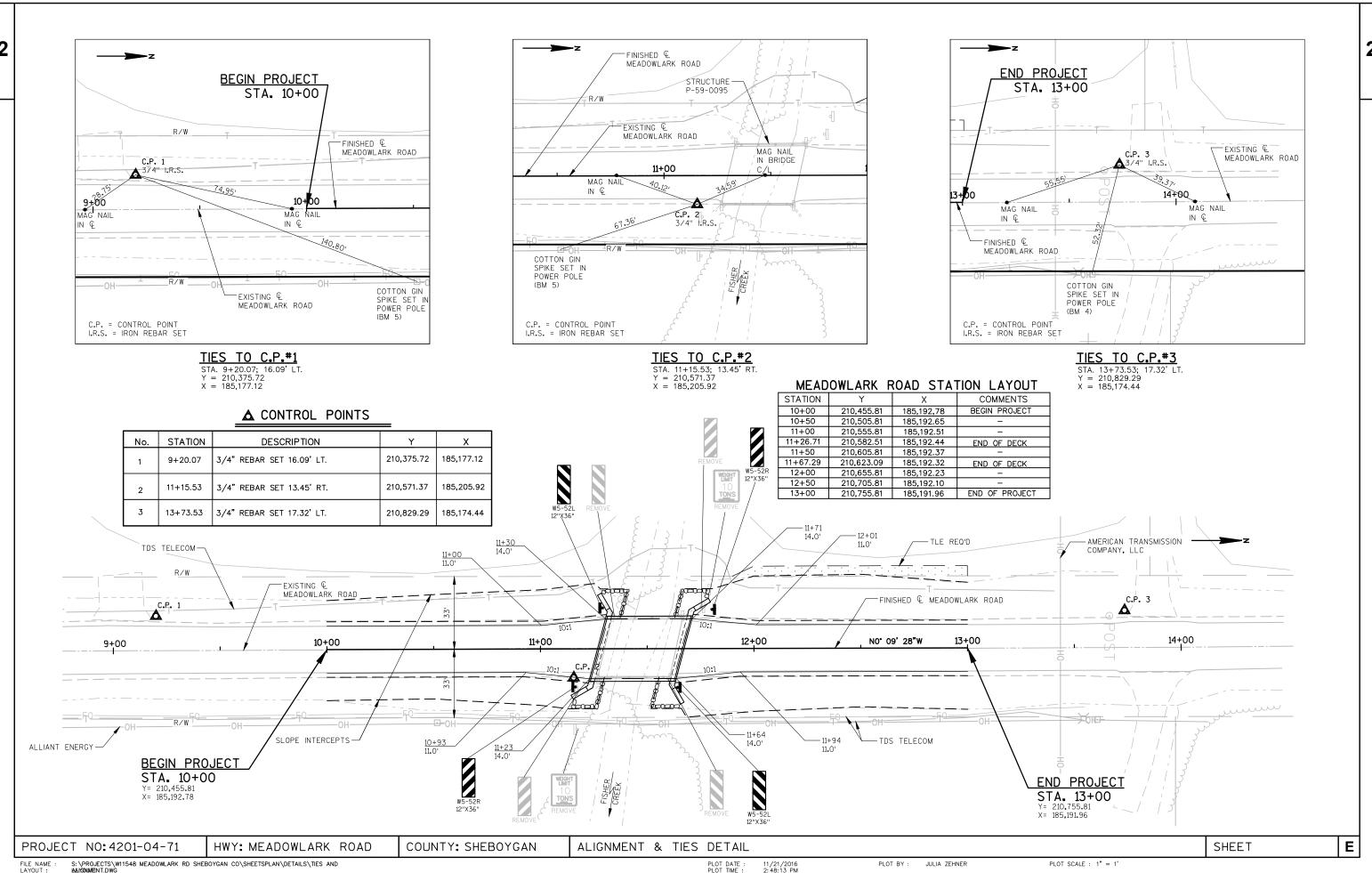
* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

PROJECT NO: 4201-04-71 HWY: MEADOWLARK RD COUNTY: SHEBOYGAN

GENERAL NOTES, HSG CHART, CONTACTS & UTILITIES

SHEET

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0380

642.5001

Field Office Type B

1.000

EACH

1.000

0530

ASP.1T0G On-the-Job Training Graduate at \$5.00/HR

Estimate Of Quantities Page 2

					4201-04-71
Line	Item	Item Description	Unit	Total	Qty
0390	643.0100	Traffic Control (project) 01.4201-04-71	EACH	1.000	1.000
0400	643.0420	Traffic Control Barricades Type III	DAY	1,140.000	1,140.000
0410	643.0705	Traffic Control Warning Lights Type A	DAY	1,770.000	1,770.000
0420	643.0900	Traffic Control Signs	DAY	760.000	760.000
0430	645.0120	Geotextile Type HR	SY	160.000	160.000
0440	646.0106	Pavement Marking Epoxy 4-Inch	LF	600.000	600.000
0450	650.4500	Construction Staking Subgrade	LF	260.000	260.000
0460	650.5000	Construction Staking Base	LF	260.000	260.000
0470	650.6500	Construction Staking Structure Layout (structure) 01.B-59-0193	LS	1.000	1.000
0480	650.9910	Construction Staking Supplemental Control (project) 01.4201-04-71	LS	1.000	1.000
0490	650.9920	Construction Staking Slope Stakes	LF	260.000	260.000
0500	690.0150	Sawing Asphalt	LF	44.000	44.000
0510	715.0502	Incentive Strength Concrete Structures	DOL	870.000	870.000
0520	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000

300.000

HRS

300.000

3

EARTHWORK SUMMARY

		P					
		(1)		UNEXPANDED	EXPANDED		
		205.0100		FILL	FILL	MASS	
		COMMON EXCAVATION	AVAILABLE	(CY)	(CY)	ORDINATE	
		CUT	MATERIAL		FACTOR	+/-	WASTE
FROM/TO STA	LOCATION	(CY)	(CY) (2)		1.25 (3)	(CY) (4)	(CY)
10+00 - 13+00	MAINLINE	340	340	166	208	132	132
TOTALS =		340	340	166	208	132	132

- 1.) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
 2.) AVAILABLE MATERIAL = CUT
- 3.) EXPANDED FILL FACTOR 1.25; EXPANDED FILL = (UNEXPANDED FILL)*1.25
- 4.) THE MASS ORDINATE+ OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY.

"P" PAY PLAN QUANTITY

GRUBBING STATION - STATION 11+00 - 12+00 TOTALS = 1	ASPHALTIC SURFACE 450.4000 HMA COLD WEATHER PAVING STATION - STATION 10+00 - 13+00 MAINLINE UNDISTRIBUTED TOTALS = A55.0605 465.0105 WEATHER PAVING TACK COAT ASPHALTIC SURFACE (GAL) (GAL) (TON) 2 10 TOTALS = 160 35 160	WATER PROJECT 624 0100 (MGAL) 4201-04-71 5
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		P	**P**	**P**	**P**	**P**
		625.0500	628.2006	629.0210	630.0120	630.0200
			EROSION MAT			
		SALVAGED	URBAN CLASS I	FERTILIZER	SEEDING MIXTURE	SEEDING
		TOPSOIL	TYPE A	TYPE B	NO. 20	TEMPORARY
STATION - STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)
10+00 - 13+00	MAINLINE	564	1172	0.7	27	16
-	UNDISTRIBUTED	136	298	0.3	8	4
	TOTALS =	700	1470	1	35	20

P PAY PLAN QUANTITY

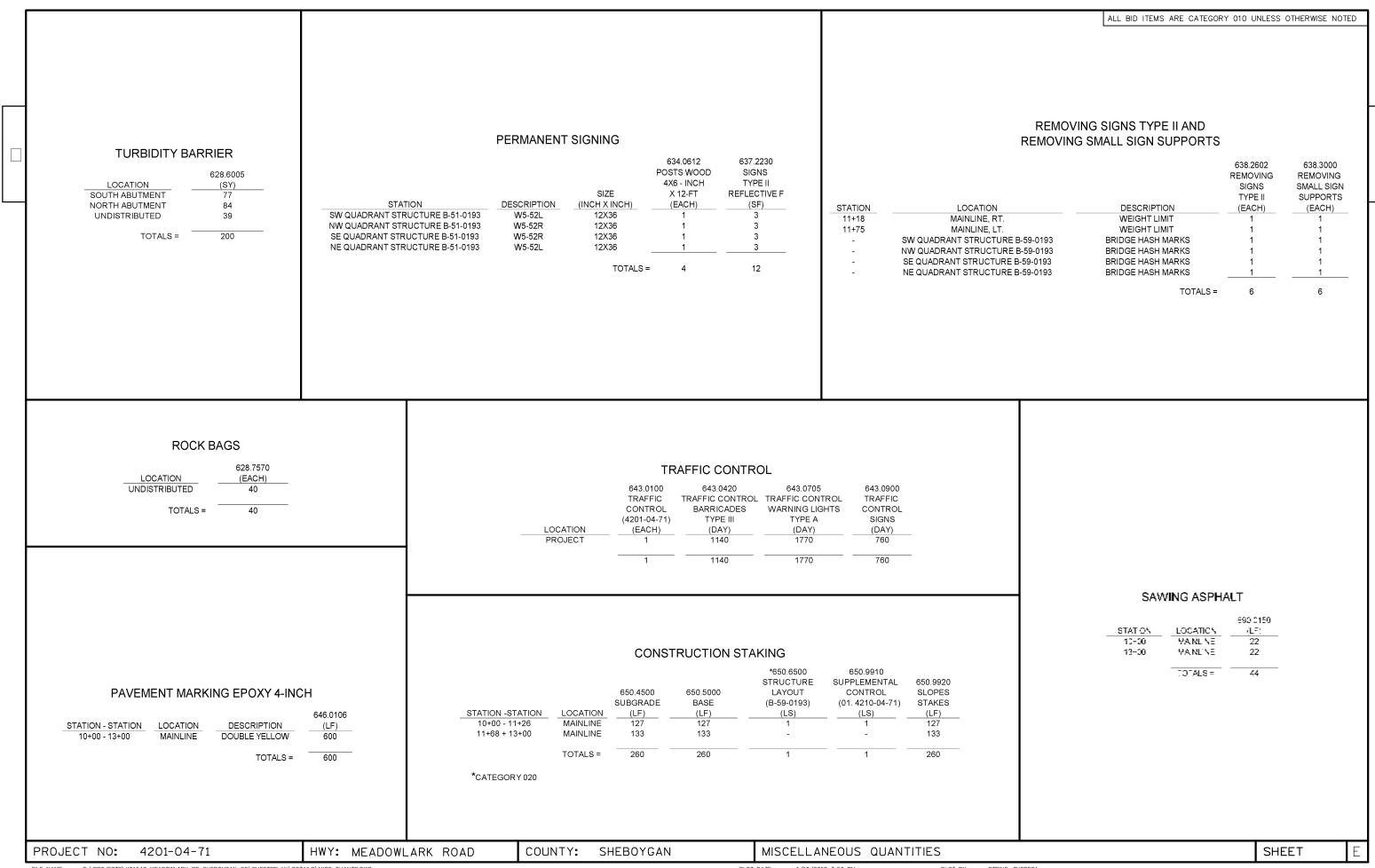
SILT FENCE

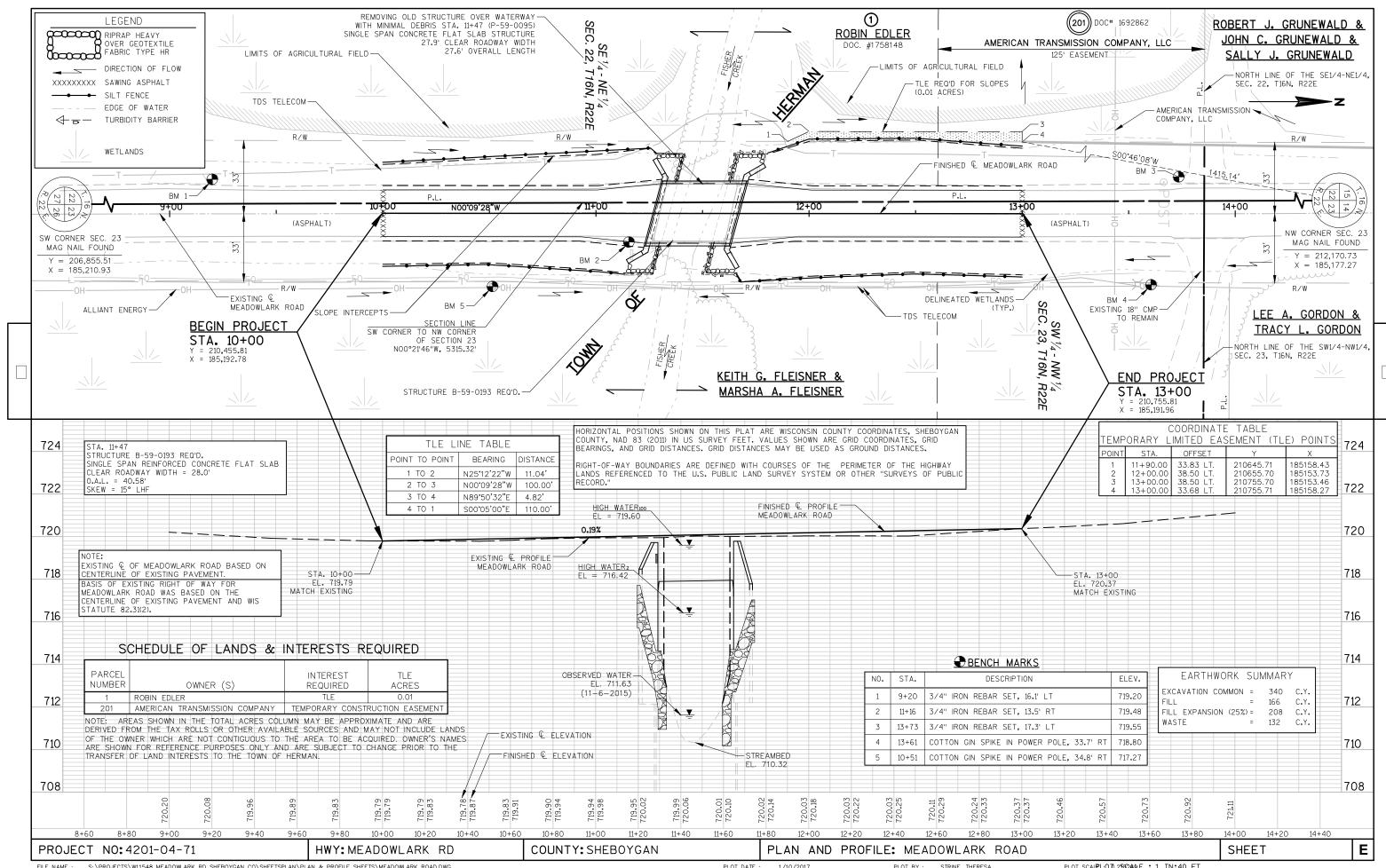
STATION - STATION 10+00 - 11+26 10+00 - 11+26 11+68 - 13+00 11+68 - 13+00	LOCATION MAINLINE, LT. MAINLINE, RT. MAINLINE, LT. MAINLINE, RT. UNDISTRIBUTED	628.1504 SILT FENCE (LF) 135 110 127 130 128	628.1520 SILT FENCE MAINTENANCE (LF) 270 220 254 260 256
•	TOTALS =	630	1260

MOBILIZATION EROSION CONTROL

	628.1905 MOBILIZATIONS	628.1910 MOBILIZATIONS EMERGENCY
PROJECT	EROSION CONTROL (EACH)	EROSION CONTROL (EACH)
4201-04-71	5	2
TOTALS	= 5	2

HWY: MEADOWLARK ROAD COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES PROJECT NO: 4201-04-71 SHEET





Standard Detail Drawing List

)8E09-06	SILT FENCE
)8E11-02	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
I5C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
I5C08-17A	LONGITUDINAL MARKING (MAINLINE)

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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)



SILT FENCE

S.D.D. 8 E 9-6

6

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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

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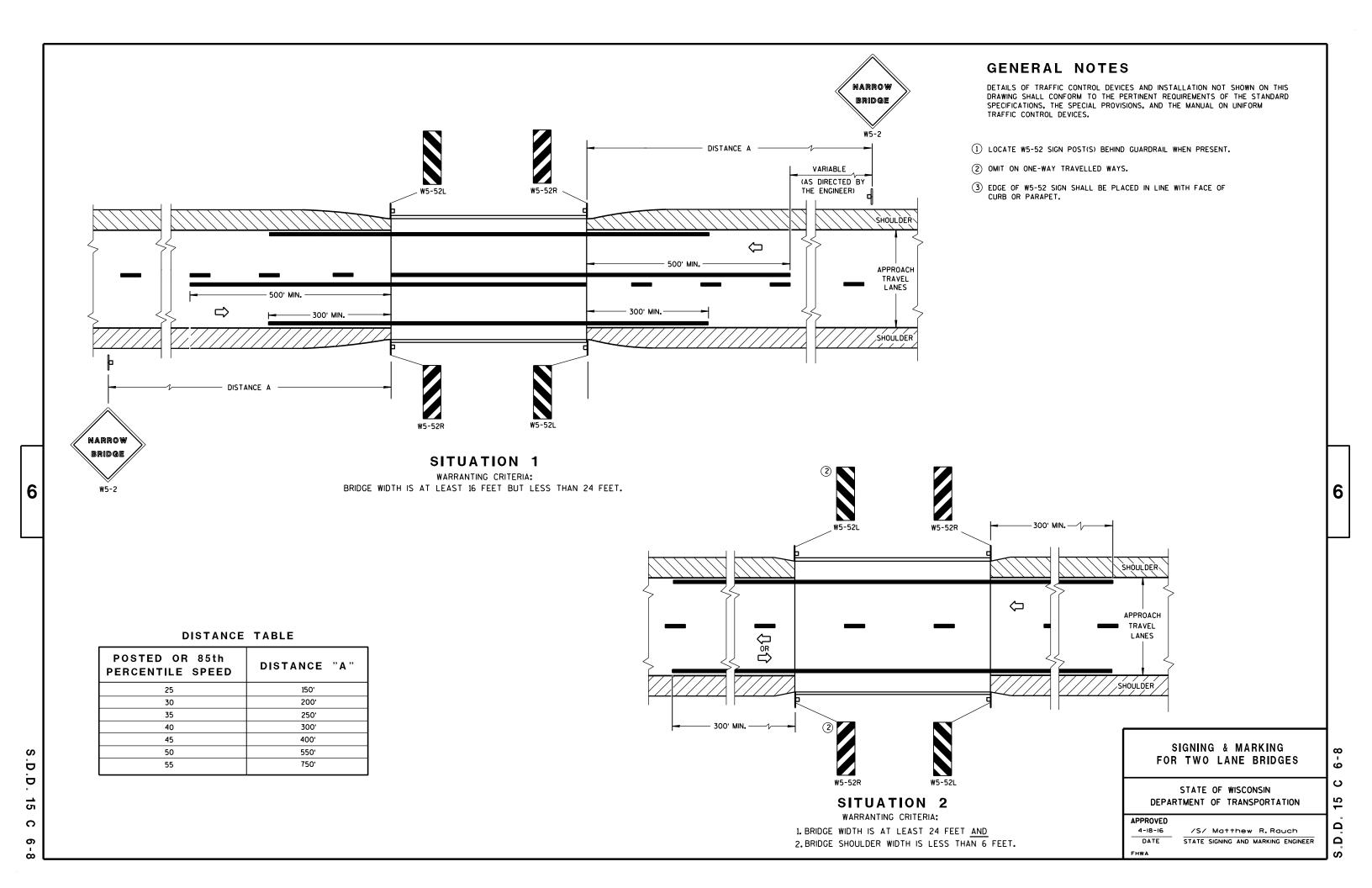
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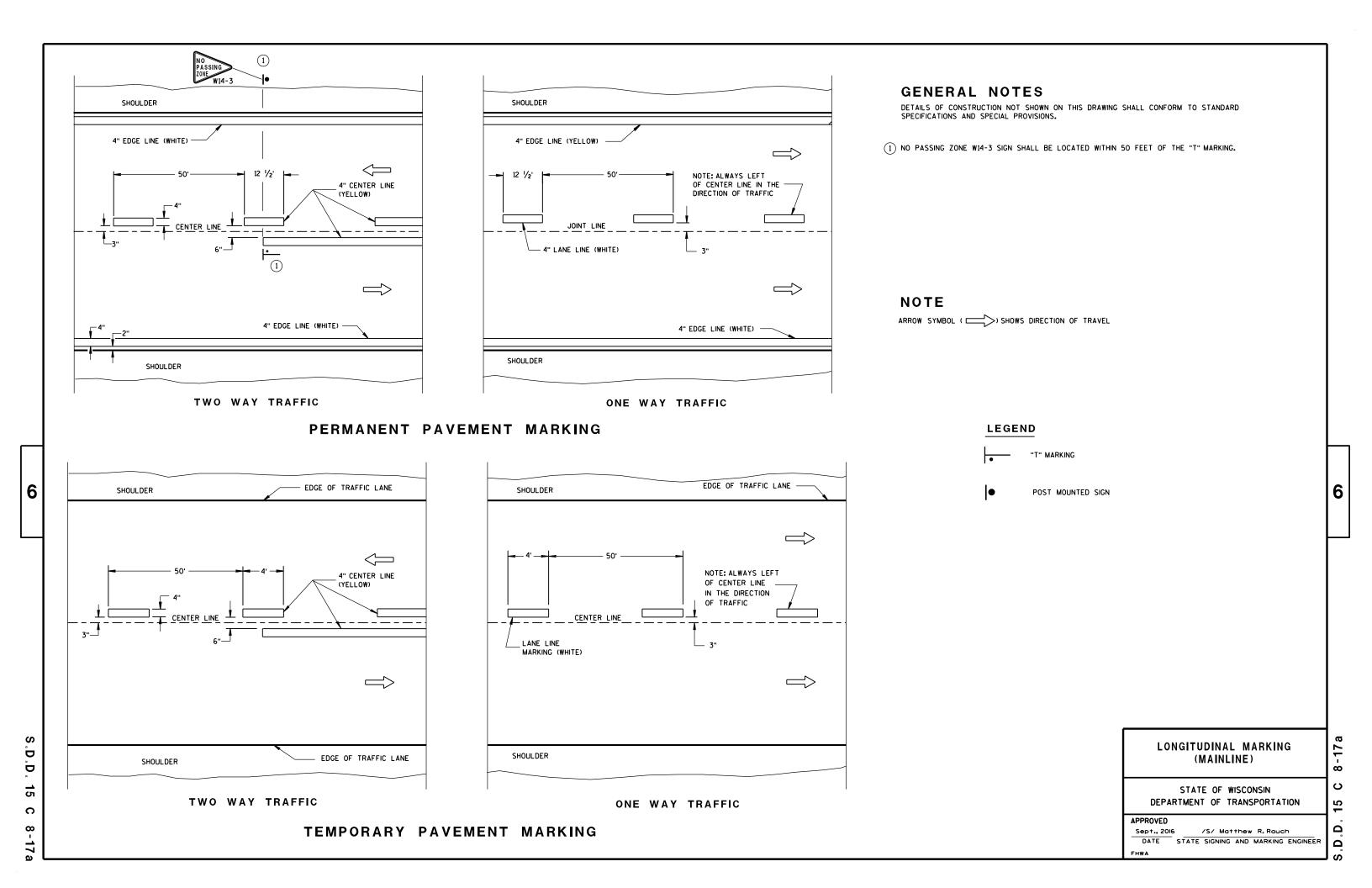
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

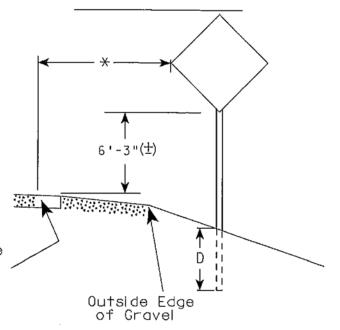
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





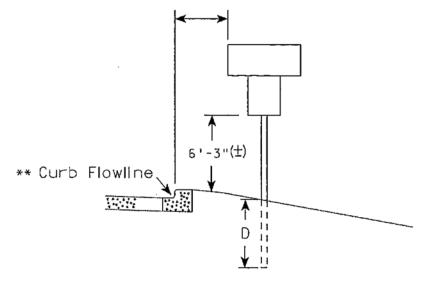
URBAN ARFA

2' Min - 4' Max (See Note 6) 7′-3"(士) ** Curb Flowline_ White Edgeline RURAL AREA (See Note 2)



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

Location



5'-3"(士) The state of the s White Edgeline D !! Location Outside Edge of Gravel

 $\star\star$ 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

* 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.

GENERAL NOTES

- 1. Signs wider than 4 feet, 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-slan.
- 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 slans 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

APPROVED

For State Traffic Engineer

DATE 11/12/14

PLATE NO. __A4-3.19

PROJECT NO:

HWY:

COUNTY:

PLOT DATE: 12-NOV-2014 14:03

PLOT BY : mscs.ja

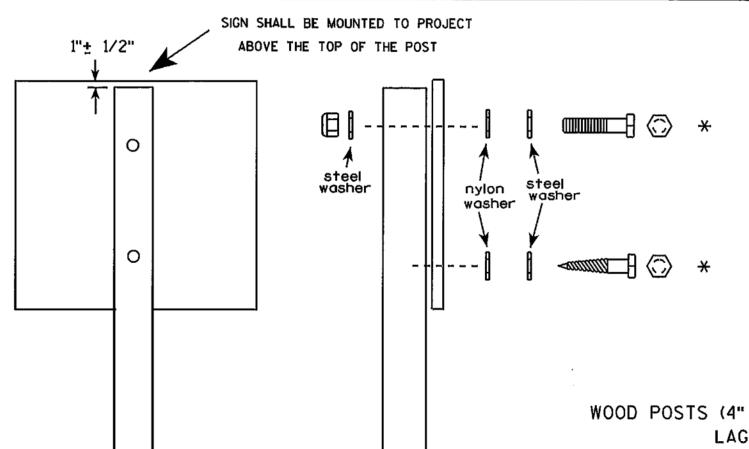
PLOT NAME :

SHEET NO: PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEFiles\Projects\tr_stdplote\A43.DGN

measured from the flow line.



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 - $\frac{5}{16}$ " 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

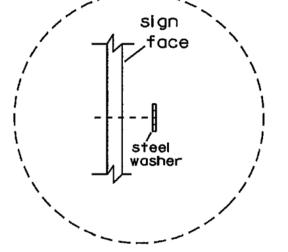
RIVETS - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL

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 1/6" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

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

For State Traffic Engineer

DATE 3/23/10

PLATE NO. 44-8.7

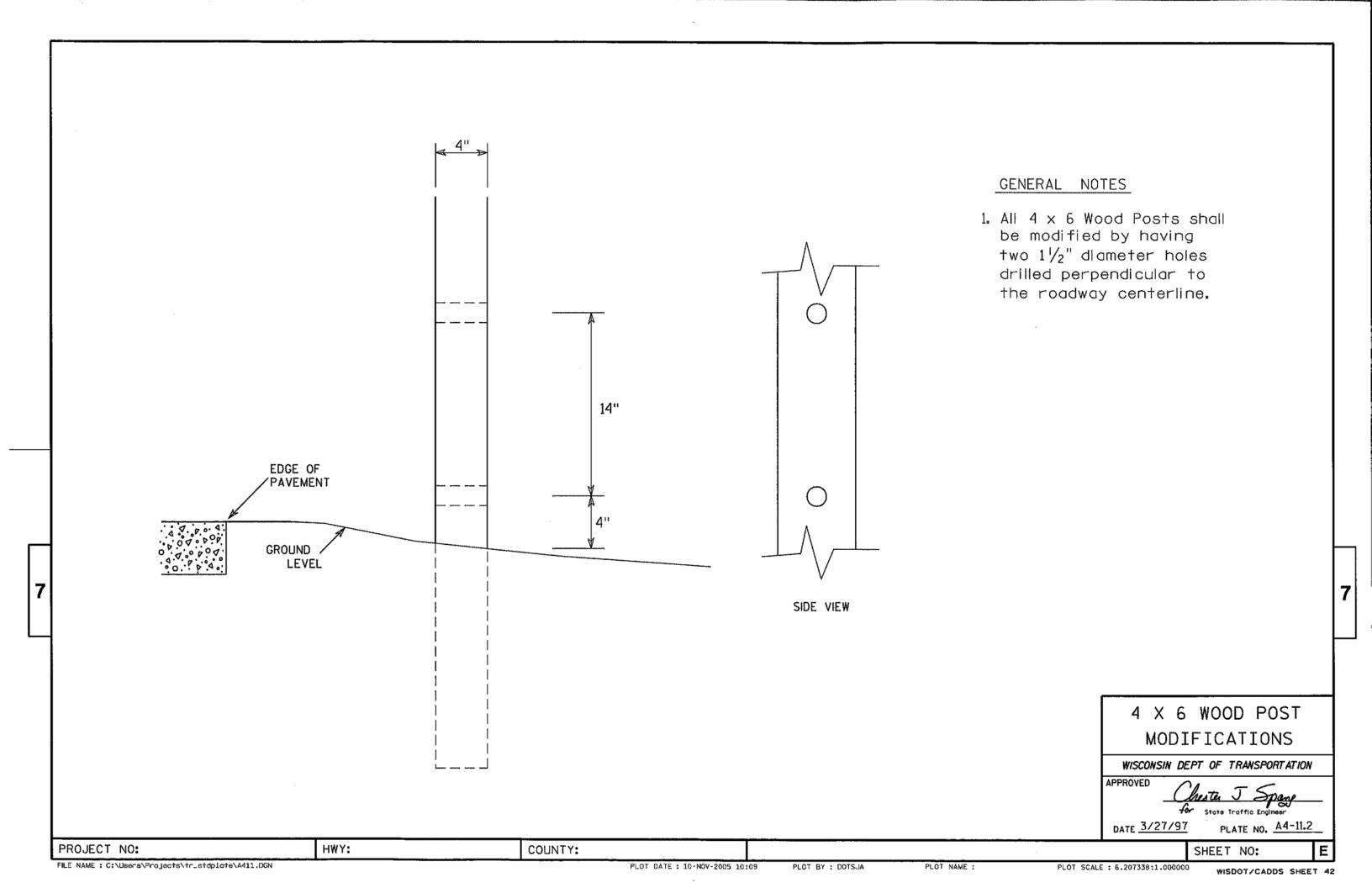
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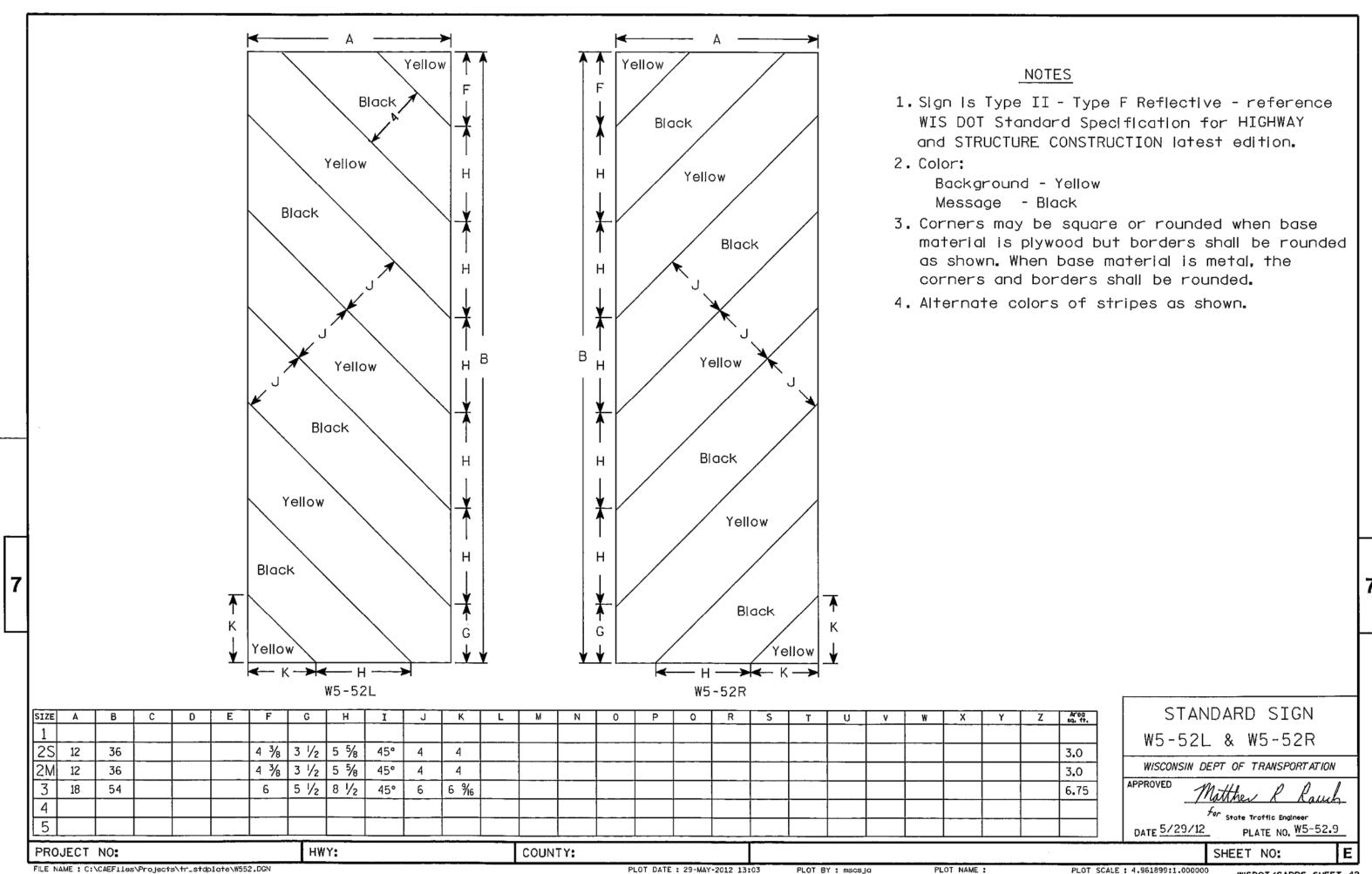
PROJECT NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplote\A48.DGN

PLOT DATE : 23-MAR-2010 10:15

PLOT BY : ditjph





FILE NAME : C:\CAEFiles\Projects\tr_stdplate\\552.DGN

PLOT DATE: 29-MAY-2012 13:03

PLOT NAME :

PLOT SCALE : 4.961899:1.000000

WISDOT/CADDS SHEET 42

4201-04-71

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HL-93
NVENTORY RATING FACTOR	RF=1.2
OPERATING RATING FACTOR	RF=1.6
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 K

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 P.S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY, SLAB	f'c	=	4,000	P.S.I
ALL OTHER	f'c	Ξ	3,500	P.S.I.
HIGH-STRENGTH BAR STEEL				
REINFORCEMENT, GRADE 60	fv	=	60,000	P.S.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE $10\frac{3}{4}$ X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 110 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 50 FT PILE LENGTHS AT BOTH ABUTMENTS.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA

A.D.I.	(2017)	90	
A.D.T.	(2037)	100	
DESIGN	SPEED	 55	м.Р.н.

HYDRAULIC DATA

OO YEAR FREQUENCY	
DRAINAGE AREA	4.2 SQ. MI.
Q100 TOTAL	1,380 C.F.S.
THROUGH STRUCTURE	1.380 C.F.S.
OVERTOPPING ROADWAY	0 C.F.S.
VELOCITY - THROUGH STRUCTURE	6.84 F.P.S.
WATERWAY AREA - THROUGH STRUCTURE	202 SQ. FT
HIGH WATER100 ELEVATION	719 . 60

EROSION CONTROL

SCOUR CRITICAL CODE

310 C.F.S. HIGH WATER2 ELEVATION . 716.42

LIST OF DRAWINGS

GENERAL PLAN	1.
CROSS SECTION AND QUANTITIES	2.
SUBSURFACE EXPLORATION	3.
ABUTMENTS	4.
ABUTMENT DETAILS	5.
SUPERSTRUCTURE	6.
TUBULAR RAILING TYPE M	7.

0000**E**0 (11001110011000

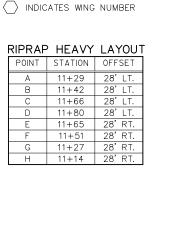
STRUCTURE B-59-193

MEADOWLARK ROAD OVER FISHER CREEK

SIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SIGNED RBH CK'D PTB BY PTB

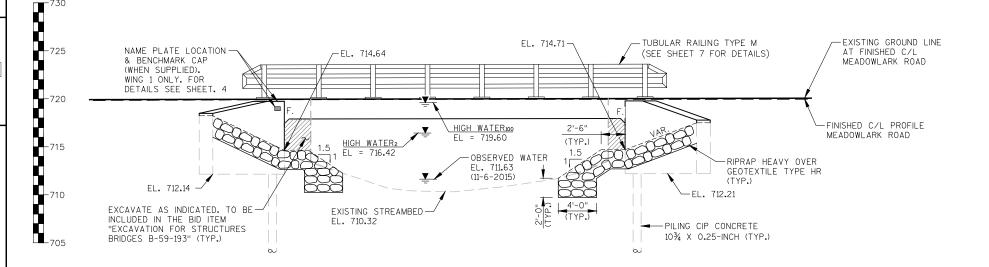
SHEET 1 OF 7 GENERAL PLAN

BRIDGE OFFICE CONTACT



BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	9+20	3/4" IRON REBAR SET, 16.1' LT	719,20
2	11+16	3/4" IRON REBAR SET, 13.5' RT	719.48
3	13+73	3/4" IRON REBAR SET, 17.3' LT	719,55
4	13+61	COTTON GIN SPIKE IN POWER POLE, 33.7' RT	718.80
5	10+51	COTTON GIN SPIKE IN POWER POLE, 34.8' RT	717.27



PLAN <u>B-59-193</u>

(SINGLE-SPAN REINFORCED CONCRETE FLAT SLAB)

BACK-TO-BACK OF ABUTMENTS

END OF EXIST. -

STRUCTURE STA. 11+63.48

38'-0" SPAN

1'-3½''

-C/L N. ABUT. STA. 11+66.00

-END OF DECK

STA. 11+66.60

RIPRAP HEAVY OVER

GEOTEXTILE TYPE HR

-REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS

-EXISTING C/L

FINISHED C/L

MEADOWLARK ROAD

MEADOWLARK ROAD

STA. 11+47 (P-59-0095)

DESIGN CONSULTANT PATRICK BOLAND, PE

(608) 588-7484

WILLIAM DREHER, PE (608) 266-8489

ELEVATION

TDS TELECOM

(TO REMAIN)

11+00

1'-3½"

C/L S. ABUT.-STA. 11+28.00

END OF DECK

STA. 11+27.40

SKEW

END OF EXISTING

STRUCTURE

NAME PLATE LOCATION. WING 1 ONLY. FOR

STA. 11+29.28

PATRICK

T. BOLAND

E-36303

SPRING GREEN

4201-04-71

GENERAL NOTES

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88).

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A. SEE THIS SHEET FOR

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK, THE SIDES OF THE DECK AND EXTERIOR 12" OF THE UNDERSIDE OF THE DECK (CONCRETE

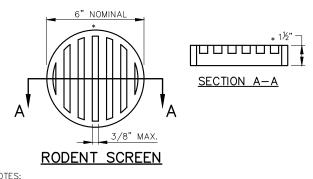
THE EXISTING STRUCTURE (P-59-0095) IS A SINGLE SPAN CONCRETE FLAT SLAB STRUCTURE, SUPPORTED ON CONCRETE ABUTMENTS. THE STRUCTURE HAS A 27.9' CLEAR ROADWAY WIDTH AND A 31.0' OVERALL LENGTH AND SHALL BE REMOVED.

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

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

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



-RAILING TUBULAR TYPE

M (TYP.) FOR DETAILS

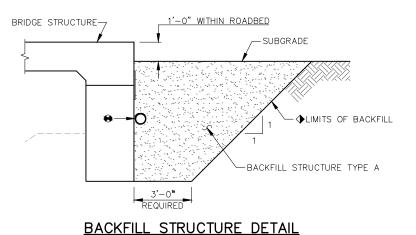
SEÈ SHÉET 7.

-¾" V-GROOVE (TYP.) NOTES:
TERMINATE 6" FROM FACE * DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO

ORIENT SCREEN SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED 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 ENDS OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1—INCH STAINLESS STEEL SLEET METAL SCREWS SHEET METAL SCREWS.



(TYPICAL AT BOTH ABUTMENTS)

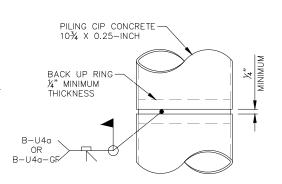
AT ABUTMENT

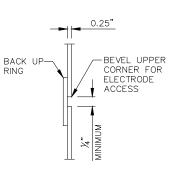
◆ BACKFILL STRUCTURE TYPE A PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO THE BID ITEM "EXCAVATION FOR STRUCTURES B-59-193". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

IN SPAN

₱ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED

PIPE UNDERDRAIN-WRAPPED 6-INCH PROPOSED ABUTMENT TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL THIS SHEET. PIPE UNDERDRAIN DETAIL



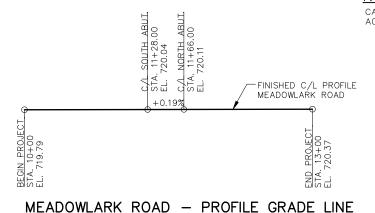


CAST-IN-PLACE **CONCRETE PILE**

C.I.P. PILE WELD DETAIL

NOTES:

CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS



DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-59-193

CROSS SECTION AND QUANTITIES

SHEET 2 OF 7

TOTAL ESTIMATED QUANTITIES

OUT TO OUT OF DECK

PROPOSED CROSS-SECTION THROUGH ROADWAY

14'-0"

-POINT REFERRED TO ON

PROFILE GRADE LINE

FACE OF RAIL

5" (TYP.)

14'-0'

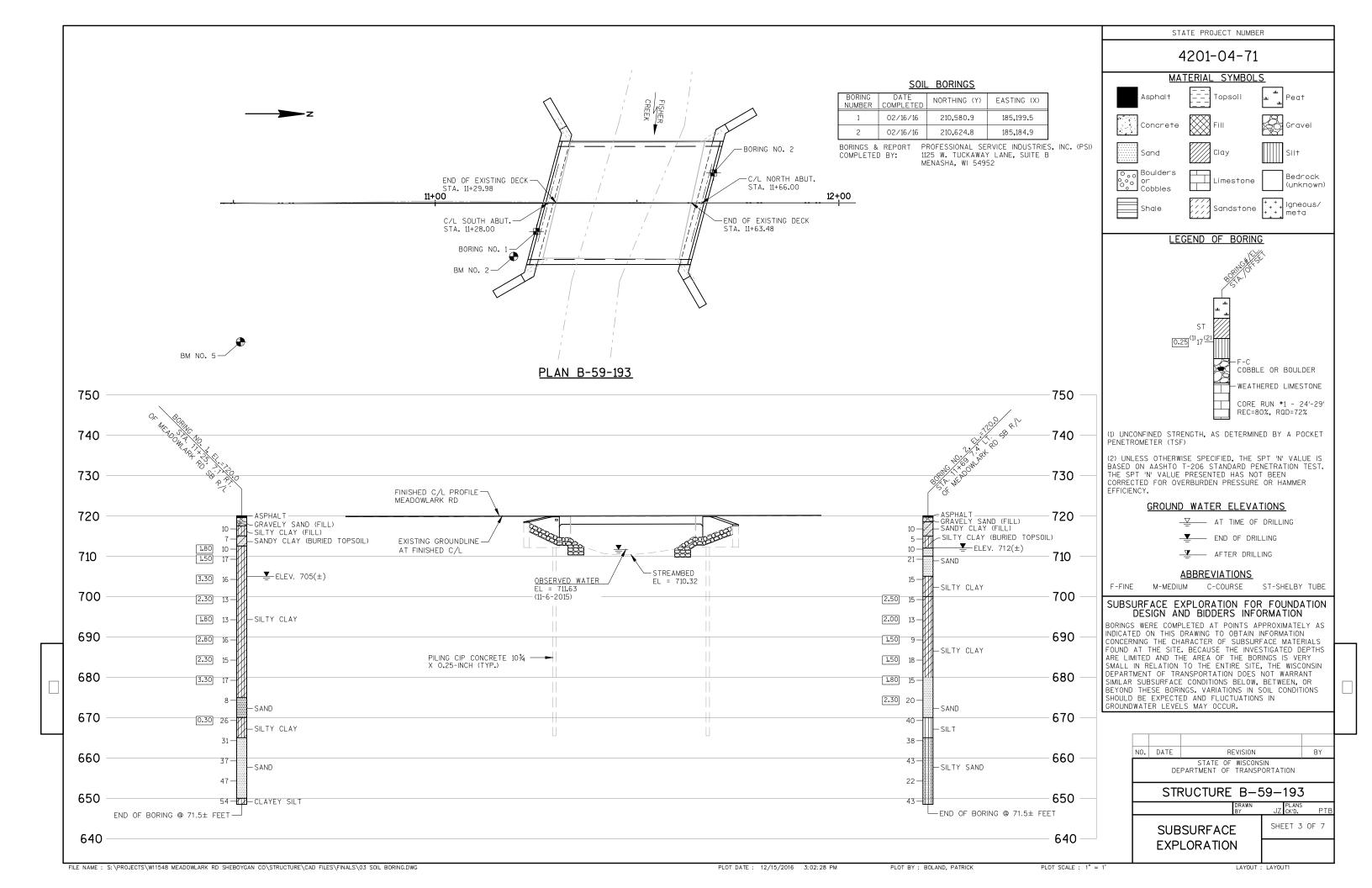
C/L MEADOWLARK ROAD

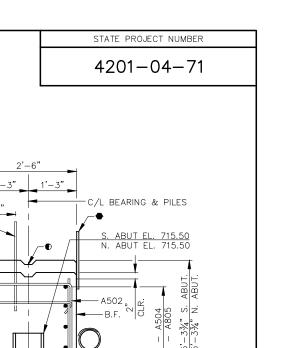
-FACE OF RAIL

ITEM NUMBER	ITEM DESCRIPTION	UNIT	S. ABUT.	SUPER	N. ABUT.	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 11+47	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-59-193	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	130		130	260
502.0100	CONCRETE MASONRY BRIDGES	CY	28	89	28	145
502.3200	PROTECTIVE SURFACE TREATMENT	SY				160
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,315		2,315	4,630
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1360	15,050	1360	17,770
513.4061	RAILING TUBULAR TYPE M B-59-193	LF				83
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY				13
550.2104	PILING CIP CONCRETE 10¾ X 0.25-INCH	LF	400		400	800
606.0300	RIPRAP HEAVY	CY	45		50	95
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80		80	160
645.0120	GEOTEXTILE TYPE HR	SY	75		85	160
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

REQ'D.





NOTES

S. ABUT. EL. 719.74 N. ABUT. EL. 719.79

-OPTIONAL KEYED

CONST. JNT. (TYP.)

(2) &(4)

6'-4½"

2'-0"

WING

S. ABUT. EL. 712.14 N. ABUT. EL. 712.21

 $\langle 2 \rangle \& \langle 4 \rangle$

& PILES

7'-5½"

S. ABUT. EL. 717.16 N. ABUT. EL. 717.21

FRONT FACE BAR STEEL REINF.

A504

17'-6" 15'-6"

STA. 11+28.00 S. ABUT

STA. 11+66.00 N. ABUT

17'-10"

EDGE OF SLAB

FILLER

★A506-

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE

DO NOT PLACE FILL HIGHER THAN 3 FEET FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SPACE REINFORCEMENT TO MISS PILING

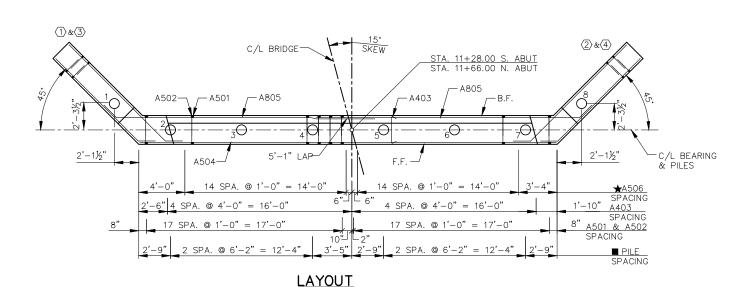


ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE 10¾ X 0.25—INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 110 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 50 FT PILE LENGTHS AT BOTH

★A506 @ 1'-0" CTRS. 3/4" BEVEL-3 NO. 4 TIE BARS @ 4'-0" HORIZ. SPA. (A403) S. ABUT. BERM EL. 714.64 N. ABUT. BERM EL. 714.71 SPA. @ F.F. – A504 SPA. @ B.F. – A805 5'-0" TO 5'-3¾" S 5'-0" TO 5'-3¾" N SPA. SPA. RIPRAP HEAVY 8 EQ. -GEOTEXTILE TYPE HR EXCAVATE TO THIS ELEV. BEFORE DRIVING PILES S. ABUT. EL. 712.14 N. ABUT. EL. 712.21

LEGEND

- ♠ KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- ☑ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- ◆ 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD %" BELOW SURFACE OF CONCRETE)
- ⚠ ¾" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- * A506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF SHAFT.
- ♦ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."



C/L BRIDGE-

S. ABUT. EL. 717.46_

N. ABUT. EL. 717.53

- A805

ELEVATION

(SOUTH ABUTMENT LOOKING SOUTH) (NORTH ABUTMENT LOOKING NORTH)

SKEW

36'-4"

PLAN

A403-

(TYP.)

18'-2"

★A506

-EDGE OF SLAB

18'-6"

16'-2"

C/L BRIDGE

BACK FACE BAR STEEL REINF.

S. ABUT. EL. 717.14

- A501

N. ABUT. EL. 717.23

S. ABUT. EL. 719.72

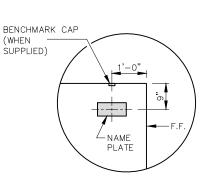
N. ABUT. EL. 719.81

 $\langle 1 \rangle \& \langle 3 \rangle$

6'-4½"

(1)&(3)

7'-5½"



TYPICAL SECTION THROUGH ABUTMENT BODY

NAME PLATE AND BENCHMARK CAP DETAIL WING 1 ONLY

NO.	DATE	REVISION	BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
	STRUCTURE B-59-193							
		DRAWN BY	JZ ck'd.	PTB				
	ABI	SHEET 4	OF 7					
	ADO							

4201-04-71

NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

2,720 LB (COATED) **BILL OF BARS** 4.630 LB (UNCOATED) TWO ABUTMENTS SHOWN

NO. REQ'D. LENGTH BENT COAT BAR LOCATION A501 144 6-0 X BODY - VERT. - F.F & B.F A502 72 8-3 X BODY - VERT. - TOP TIE BARS A504 18 36-2 BODY - HORIZ. - F.F A805 .36 BODY - HORIZ. - B.F. 24-4 BODY - VERT. - DOWELS A506 60 44 9-0 WING 1 & 3 - VERT. - F.F. & B.F A408 7-2 WINGS - VERT 22 A409 WINGS - VERT - TOP A510 36 11-8 X WINGS - HORIZ. - F.F. WINGS - HORIZ. - B.F 4 8-10 WING 1 & 3 - HORIZ. - F.F. & B.F. A412 WING 1 & 3 - HORIZ, - F.F. & B.F A 41.3 8-4 A414 4 8-11 X WING 1 & 3 - HORIZ. - F.F. & B.F A416 10-2 WING 1 & 3 - HORIZ. - TOP A417 44 8-8 WING 2 & 4 - VERT. - F.F. & B.F A418 8-6 A419 5-6 WING 2 & 4 - HORIZ. - F.F. & B.F WING 2 & 4 - HORIZ. - F.F. & B.F. A420 A421 4 9-1 WING 2 & 4 - HORIZ. - F.F. & B.F.

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

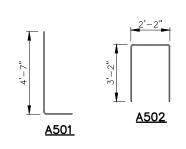
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

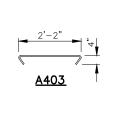
* LENGTH SHOWN IS AN AVERAGE LENGTH ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

	DITT SETTES	IADEL
BAR MARK	NO. REQ'D.	LENGTH
A407	4 SERIES OF 11	9-7 TO 8-5
A417	4 SERIES OF 11	9-7 TO 7-9

BUNDLE AND TAG EACH SERIES SEPARATELY.





A407 & A417



A805, A510 & A811



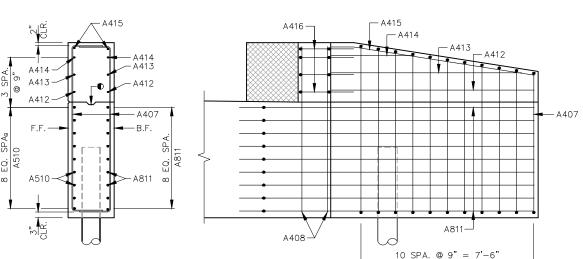
MARK	'A'	A415 & A421
A415	171°07'	
A421	165°58'	



<u>A416</u> NO. DATE REVISION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-59-193

SHEET 5 OF 7 ABUTMENT DETAILS



F.F. ELEVATION - WING 1 & 3

A415 —

A413-

— A510

10 SPA. @ 9" = 7'-6"

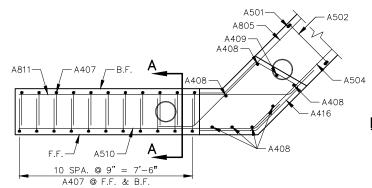
— A416

- A408

S. ABUT. EL. 712.14 N. ABUT. EL. 712.21

B.F. ELEVATION - WING 1 & 3

A407

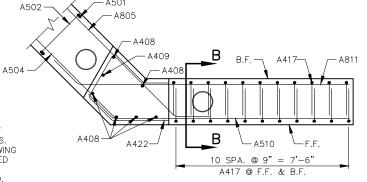


PLAN VIEW — WING 1 & 3

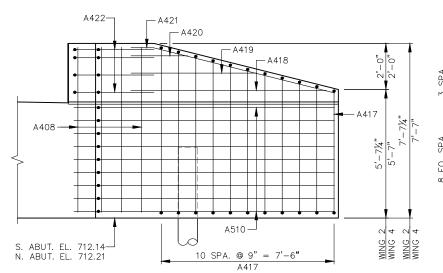
LEGEND

• OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
34" "V" GROOVE AT FRONT FACE OF WING WALL AND HORIZONTAL 18" RUBBERIZED MEMBRANE WATERPROOFING AT BACK FACE IF CONSTRUCTION JOINT IS USED. COST IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES"

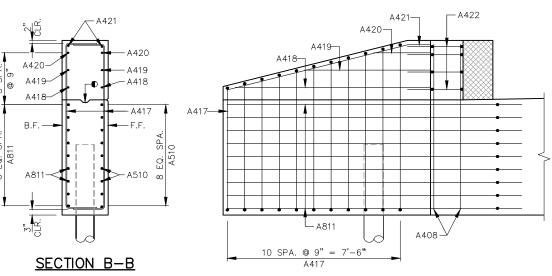
SECTION A-A



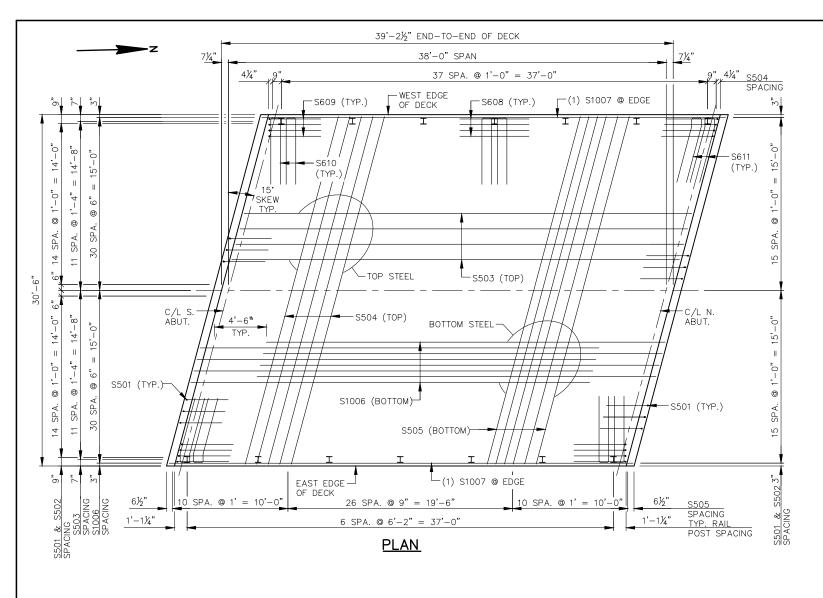
PLAN VIEW - WING 2 & 4



F.F. ELEVATION - WING 2 & 4



B.F. ELEVATION - WING 2 & 4



TOP OF DECK ELEVATIONS

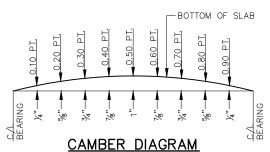
	C/L S. ABUT.	0.10 PNT.	0.20 PNT.	0.30 PNT.	0.40 PNT.	0.50 PNT.	0.60 PNT.	0.70 PNT.	0.80 PNT.	0.90 PNT.	C/L N. ABUT.
W. EDGE	719.74	719.74	719.75	719.76	719.76	719.77	719.78	719.79	719.79	719.80	719.81
C/L	720.04	720.04	720.05	720.06	720.07	720.07	720.08	720.09	720.10	720.10	720.11
E. EDGE	719.72	719.73	719.73	719.74	715.75	719.76	719.76	719.77	719.78	719.79	719.79

NOTES

SUPPORT ALTERNATE TOP TRANSVERSE BARS IN SLAB BY INDIVIDUAL BAR CHAIRS AT APPROX. 3'-0"
CENTERS. SUPPORT BOTTOM LONGITUDINAL BARS BY CONTINUOUS BAR CHAIRS AT APPROX. 4'-0" CENTERS.

PLACE TRANSVERSE BARS PARALLEL TO THE CENTERLINE OF SUBSTRUCTURE UNITS.

THE SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).



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

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB OR CENTER LINE FOLLOW THIS PROCEDURE:

- TOP OF SLAB ELEVATION AT FINAL GRADE
- -SLAB THICKNESS +CAMBER
- +FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (COMPUTED BY CONTRACTOR) = TOP OF SLAB FALSEWORK ELEVATION.

SURVEY TOP OF DECK ELEVATIONS

<u> </u>	<u> </u>			<u> </u>	<u> </u>	
	S.	ABUT.	0.50	PT.	N.	ABUT.
W. EDGE OF DECK						
CENTER LINE						
E. EDGE OF DECK						

PRIOR TO RELEASING SLAB FASLEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF THE ABUTMENTS AND AT 0.50 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG THE EDGE OF DECK AND CENTER LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

14'-0" CLEAR ROADWAY

11 SPA. @ 1'-4'' = 14'-8'

STATE PROJECT NUMBER

4201-04-71

BILL OF BARS SUPERSTRUCTURE

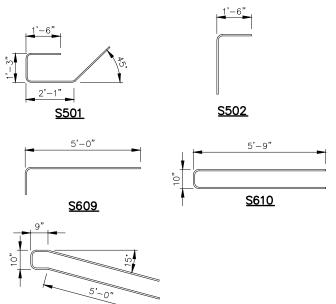
15,050 LB (COATED)

MARK	REQ'D.	LENGTH	BENT	COAT	LOCATION						
S501	61	6-9	Х	Х	END OF DECK						
S502	61	3-3	X	X	END OF DECK						
S503	23	38-10		X	SLAB - TOP - LONGIT.						
S504	40	31-2		X	SLAB - TOP - TRANS.						
S1005	53	31-2		X	SLAB - BOTTOM - TRANS.						
S1006	61	34-8		X	SLAB - BOTTOM - LONGIT.						
S607	2	40-3		X	SLAB - BOTTOM - LONGIT EDGES						
S608	40	6-0		X	RAIL POSTS - INTERIOR						
S609	16	6-0	X	X	RAIL POSTS - ENDS						
S610	24	12-0	X	X	RAIL POSTS - INTERIOR						
S611	4	12-0	Х	X	RAIL POSTS - CORNERS						

NOTES: THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

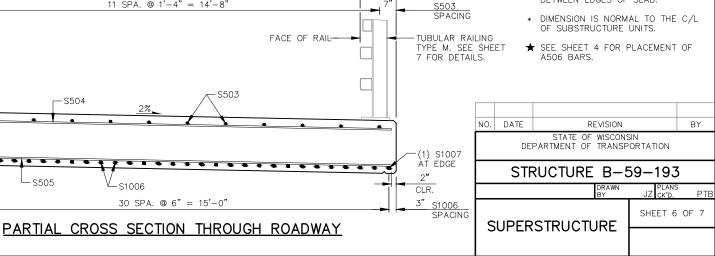
SOME BARS HAVE BEEN OMITTED FOR CLARITY.

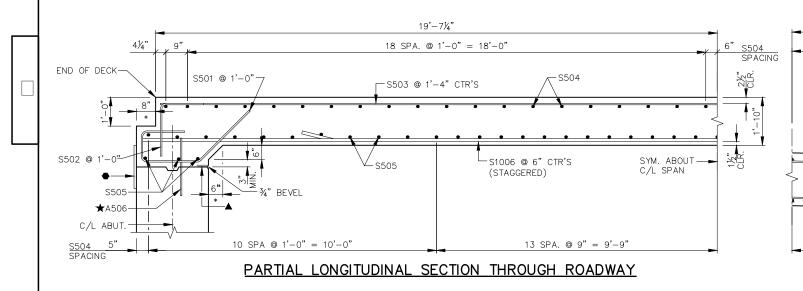


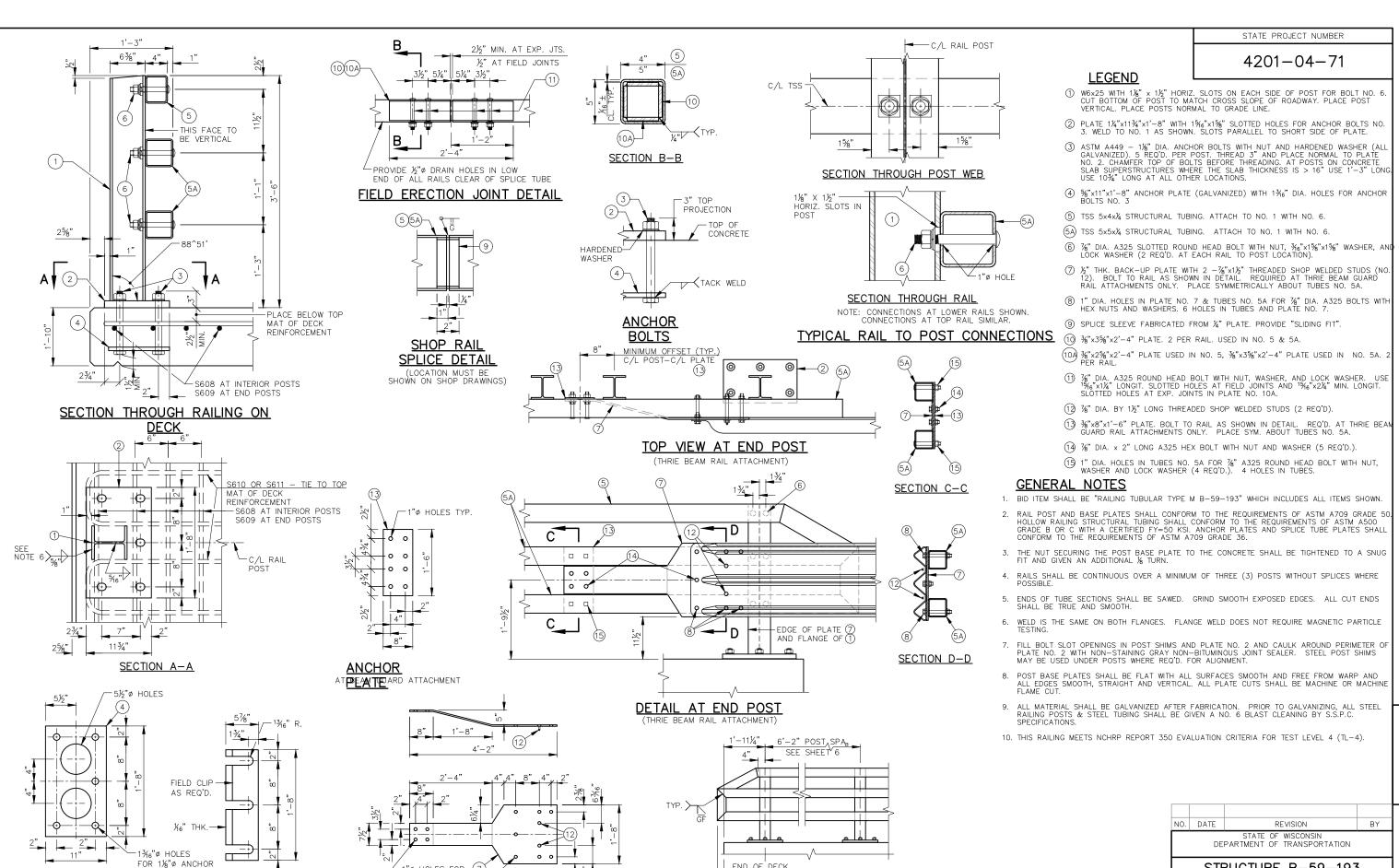
LEGEND

<u>S611</u>

- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ¾" × 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.







POST SHIM

DETAIL

ANCHOR PLATE

AT RAIL TO DECK CONNECTION

-1"ø HOLES FOR

%"ø HEX BOLTS

∠1"ø HOLES TYP

BACK-UP PLATE

AT BEAM DEAT A ILTTACHMENT

PART ELEVATION OF RAILING

_END OF DECK

2'-3"

EARTHWORK-MAINLINE

	AREA (SI	F)				INCREME	ENTAL VOL (CY)							CUMMULAT	IVE VOLUM	ME (CY)					
			SALVAGED/ REDUCED											REDUCED							
		SALVAGED/					UNUSABLE			MARSH IN FILL	FILL	SELECT CRUSHED		CUT			MARSHINFIL	L FILL	SELECT CRUSHED		MASS
		UNUSABLE				CUT	PAV'T MATERIAL	FILL		(0.6)		MATERIAL		1.00		MARSH	(0.6)	(25%)	MATERIAL		ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	MARSH EX	K EBS	NOTE 1	NOTE 2	NOTE 3	MARSHEX	NOTE 4	(25%)	(1.5)	EBS	NOTE 1	FILL	EX	NOTE 4	NOTE 5	(1.5)	EBS	NOTE 6
10+00	37	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Û	0	0	0
10+50	37	0	7	0	0	68	0	13	0	0	16	0	0	68	13	0	0	16	0	0	52
11+00	39	0	9	0	0	70	0	15	0	0	19	0	0	138	28	Û	0	35	0	0	103
11+26	38	0	9	0	0	38	0	9	0	0	11	0	0	176	37	0	0	46	0	0	130
11+26	0	0	0	0	0	0	0	0	0	0	0	0	0	176	37	0	0	46	0	0	130
11+68	0	0	0	0	0	0	0	0	0	0	0	0	0	176	37	0	0	46	0	0	130
11+68	38	0	33	0	0	0	0	0	0	0	0	Ō	0	176	37	Û	0	46	0	0	130
12+00	35	0	25	0	0	43	0	35	0	0	44	0	0	219	72	0	0	90	0	0	129
12+50	32	0	25	0	0	62	0	47	0	0	59	0	0	281	119	0	0	149	0	0	132
13+00	32	0	25	0	0	. 59	0	47	0	0	59	0	0	340	166	0	0	208	0	0	132
					COLUMN SUBTOTAL	S 340	0	166	0	0	208	0	0								
					MAINLIN	E 340	0	166	0	0	208	0	0	340	166	O.	0	208	0	0	132

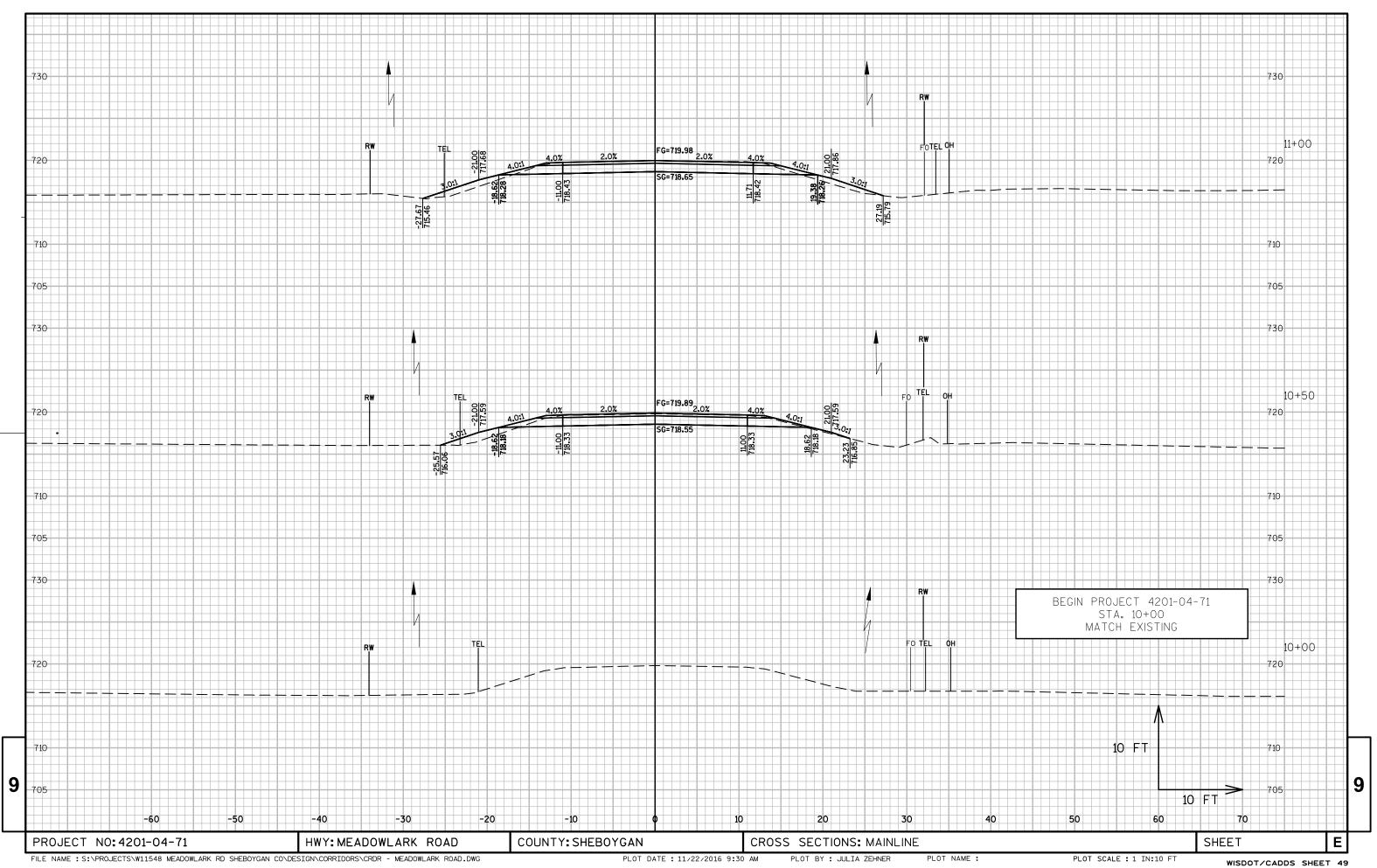
NOTES: 1 - CUT 2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL 3 - FILL 4 - REDUCED MARSH IN FILL 5 - FILL (25%) 6 - MASS ORDINATE

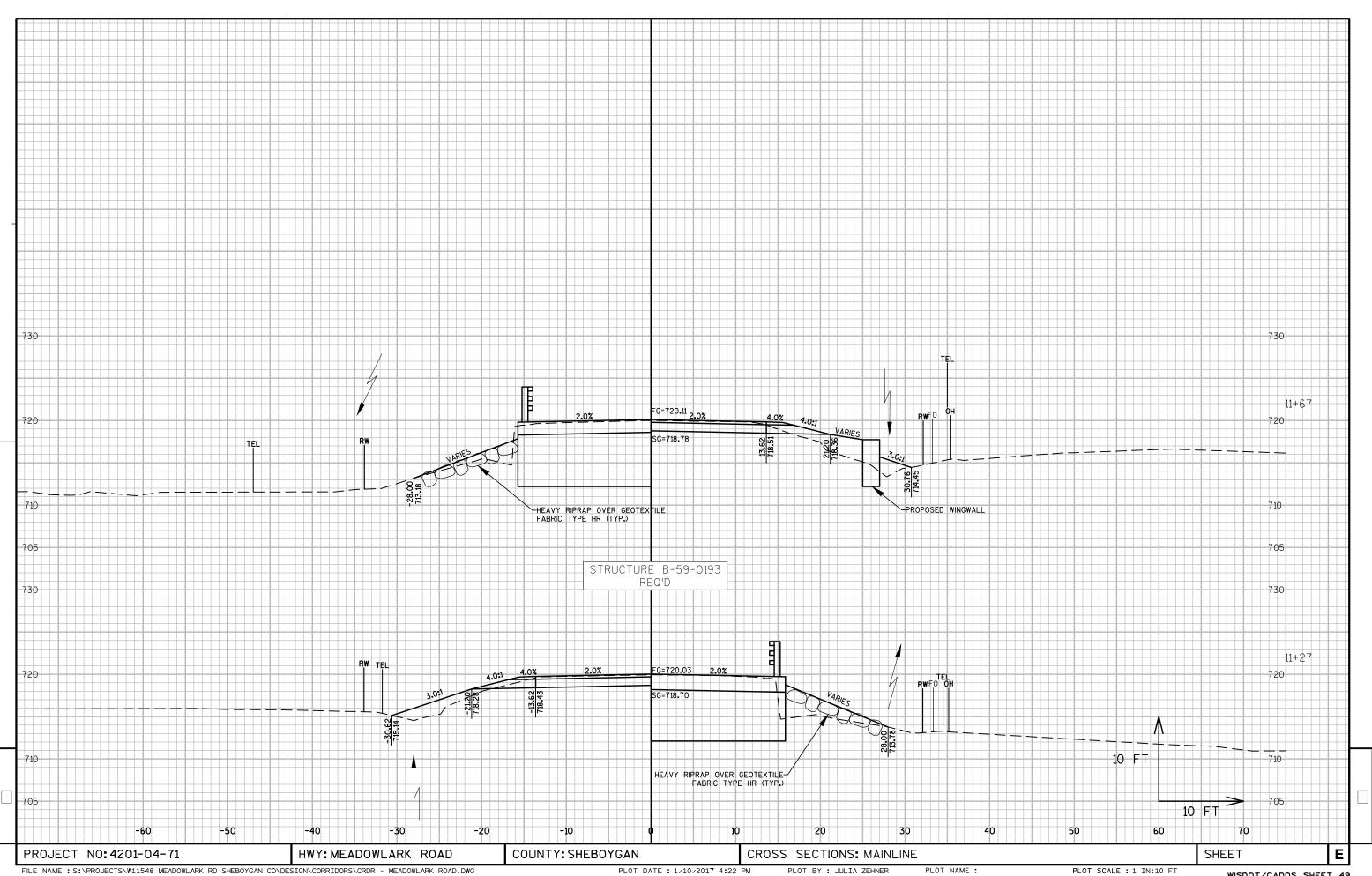
CUT INCLUDES SALVAGED/UNUSABLE MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS

DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

REDUCED MARSH THAT CAN BE USED IN FILL FILL 25%: (FILL -REDUCED MARSH IN FILL)*1.25 (CUT - FILL (25%))

SHEET Ε HWY: MEADOWLARK ROAD COUNTY: SHEBOYGAN EARTHWORK PROJECT NO: 4201-04-71 PLOT BY: STRINE, THERESA PLOT SCALE : 1" = 1'

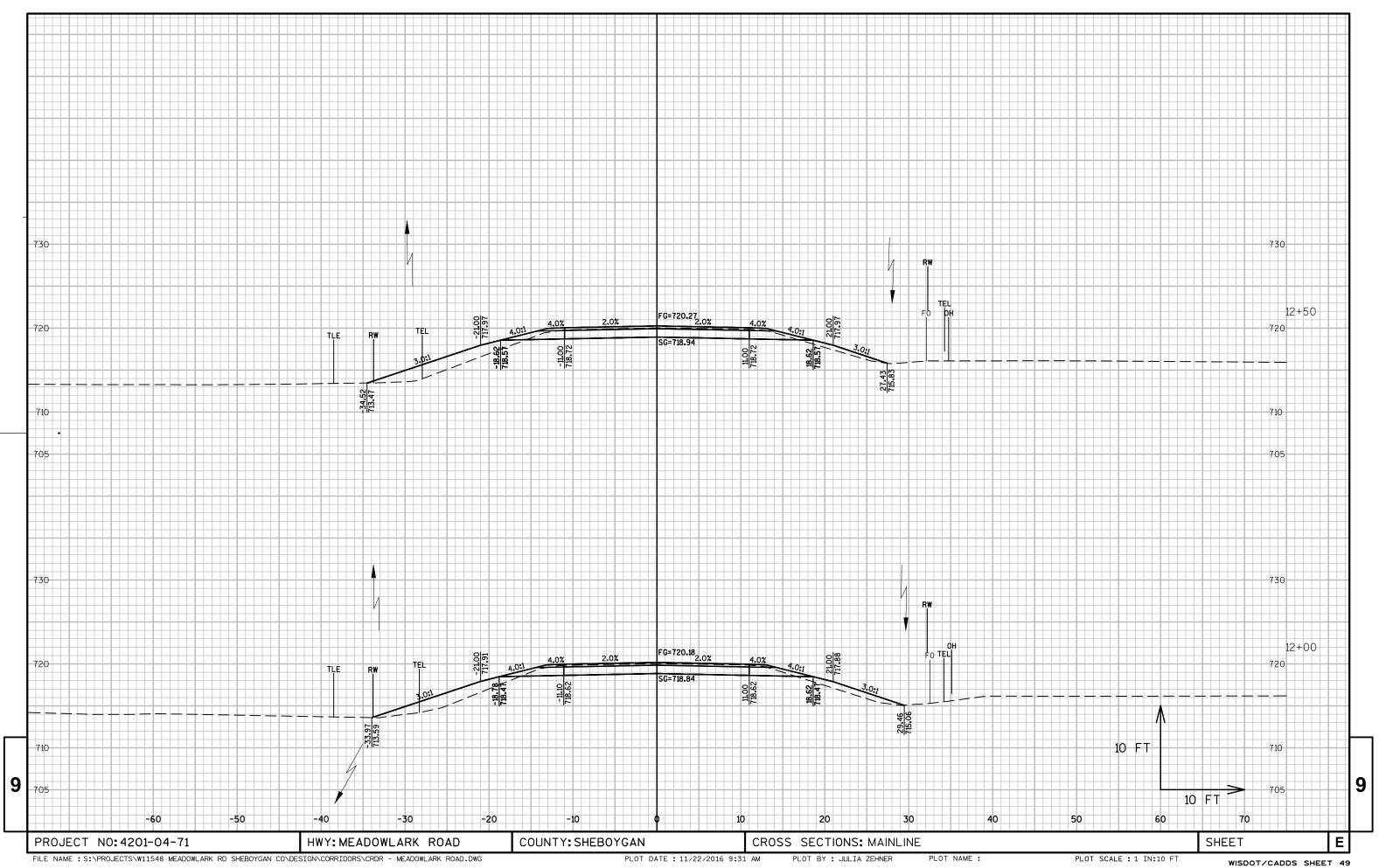


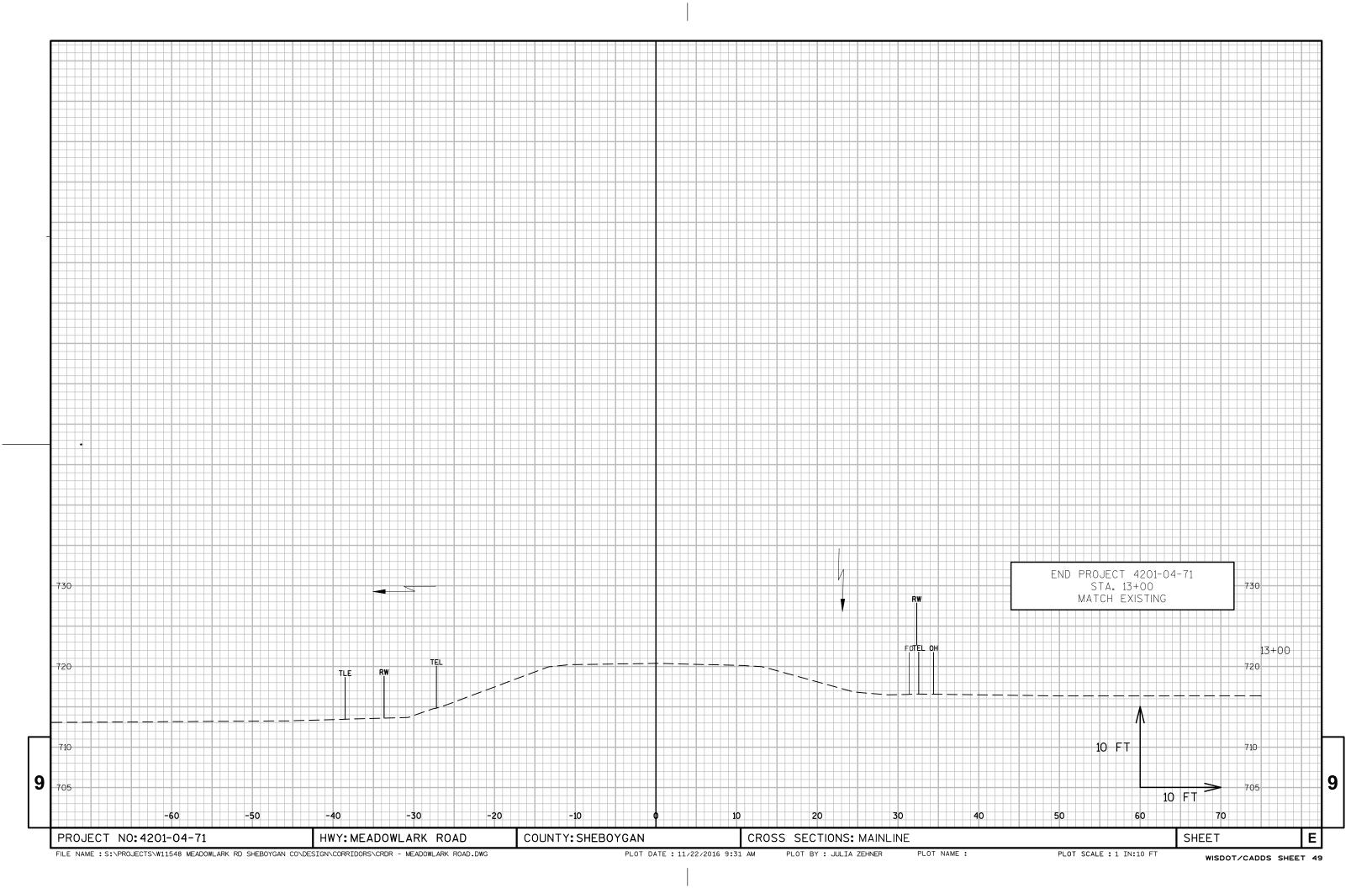


FILE NAME : S:\PROJECTS\W11548 MEADOWLARK RD SHEBOYGAN CO\DESIGN\CORRIDORS\CRDR - MEADOWLARK ROAD.DWG

PLOT DATE: 1/10/2017 4:22 PM

WISDOT/CADDS SHEET 49







Wisconsin Department of Transportation

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