TOTAL SHEETS =

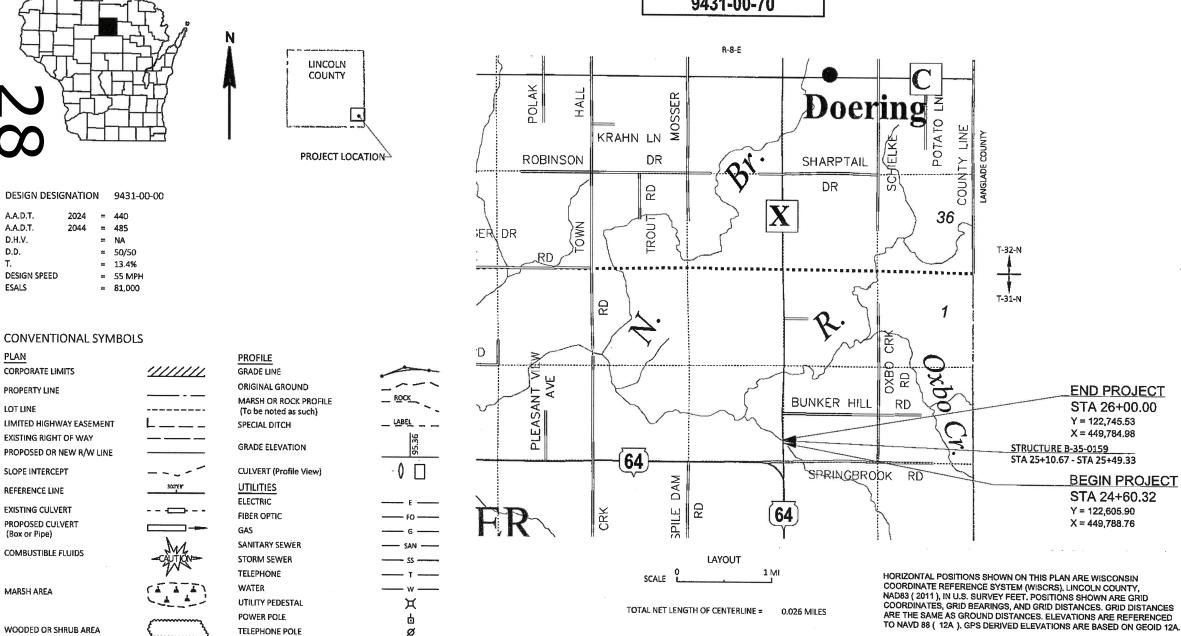
# MARCH 2024 ORDER OF SHEETS SCION NO. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data

# FEDERAL PROJECT PROJECT CONTRACT 9431-00-70 WISC 2024296 1

LITTLE OXBO CREEK BRIDGE B-35-0159

# CTH X LINCOLN COUNTY

9431-00-70





Cross Sections

#### LIST OF STANDARD ABBREVIATIONS

ABUT	ABUTMENT		
AC	ACRES	LT.	LEFT
AGG	AGGREGATE	LS	LUMP SUM
AH	AHEAD	MH	MANHOLE
ADT	AVERAGE DAILY TRAFFIC	N NC	NORTH NORMAL CROWN
AVG.	AVERAGE	PAVT	PAVEMENT
ASPH	ASPHALTIC	PC	POINT OF CURVATURE
BK.	BACK	PE	PRIVATE ENTRANCE
		PI	POINT OF INTERSECTION
BM	BENCHMARK	PL	PROPERTY LINE
Δ	CENTRAL ANGLE OR DELTA	PP PP	POWER POLE
₵ , C/L	CENTERLINE		
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CABC	CRUSHED AGGREGATE	R	RANGE , RADIUS REINFORCED CONCRETE
	BASE COURSE	RCCP	
CONC.	CONCRETE	RD	CULVERT PIPE ROAD
COR	CORNER		
COR	CORNER	REBAR	REINFORCEMENT BAR
CORR	CORRUGATED	REQD	REQUIRED
CSCP	CORRUGATED STEEL	RDWY	ROADWAY
CCDA	CULVERT PIPE	RHF	RIGHT HAND FORWARD
CSPA	CORRUGATED STEEL	RL, R/L	REFERENCE LINE
	PIPE ARCH	RR	RAILROAD
CTH	COUNTY TRUNK HIGHWAY	RT.	RIGHT
CP.	CULVERT PIPE	R/W	RIGHT-OF-WAY
CY	CUBIC YARD	S	SOUTH
CWT.	HUNDREDWEIGHT	SAN S	SANITARY SEWER
DIA	DIAMETER	SDD	STANDARD DETAIL DRAWING
D	DEGREE OF CURVE	SDD SE	STANDARD DETAIL DRAWING SUPER ELEVATION
D DHV	DEGREE OF CURVE DESIGN HOURLY VOLUME		
D	DEGREE OF CURVE	SE	SUPER ELEVATION
D DHV DWY EBS	DEGREE OF CURVE DESIGN HOURLY VOLUME	SE SF.	SUPER ELEVATION SQUARE FEET
D DHV DWY EBS ELEV., EL	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION	SE SF. SHLDR	SUPER ELEVATION SQUARE FEET SHOULDER
D DHV DWY EBS ELEV., EL ELEC.	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC	SE SF. SHLDR SPECS	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS
D DHV DWY EBS ELEV., EL ELEC. EXC	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION	SE SF. SHLDR SPECS SQ. SS. SY.	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD
D DHV DWY EBS ELEV., EL ELEC. EXC EXIST	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING	SE SF. SHLDR SPECS SQ. SS. SY. STH	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY
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D DHV DWY EBS ELEV., EL ELEC. EXC EXIST E FE	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING EAST FIELD ENTRANCE	SE SF. SHLDR SPECS SQ. SS. SY. STH ST. STA.	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION
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D DHV DWY EBS ELEV., EL ELEC. EXC EXIST E FE FF. FL, F/L FS	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING EAST FIELD ENTRANCE FACE TO FACE FLOW LINE FULL SUPERELEVATION	SE SF. SHLDR SPECS SQ. SS. SY. STH ST. STA. SW T	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB
D DHV DWY EBS ELEV., EL ELEC. EXC EXIST E FE FF. FL, F/L FS G	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING EAST FIELD ENTRANCE FACE TO FACE FLOW LINE FULL SUPERELEVATION GARAGE	SE SF. SHLDR SPECS SQ. SS. SY. STH ST. STA. SW T TC TL, T/L	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB TRANSIT LINE
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D DHV DHV EBS ELEV., EL ELEC. EXC EXIST E FE FF, FL, F/L FS G GN H	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING EAST FIELD ENTRANCE FACE TO FACE FLOW LINE FULL SUPERELEVATION GARAGE GRID NORTH HOUSE	SE SF. SHLDR SPECS SQ. SS. SY. STH ST. STA SW T TC TL TLE TEMP TLE TYP	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB TRANSIT LINE TELEPHONE TEMPORARY TEMPORARY TEMPORARY TYPICAL
D DHV DHV EBS ELEV., EL ELEC. EXC EXIST E FE, FfL, F/L FS G GN H	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING EAST FIELD ENTRANCE FACE TO FACE FLOW LINE FULL SUPERELEVATION GARAGE GRID NORTH HOUSE	SE SF. SHLDR SPECS SQ. SS. SY. STH ST. STA. SW T TC TL, T/L TEL TYP USH	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB TRANSIT LINE TELEPHONE TEMPORARY TEMPORARY LIMITED EASEMENT TYPICAL UNITED STATES HIGHWAY
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D DHV DHV DHV EBS ELEV., EL ELEC. EXC EXIST E FF. FL, F/L FS G GN H	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION ELECTRIC EXCAVATION EXISTING EAST FIELD ENTRANCE FACE TO FACE FLOW LINE FULL SUPERELEVATION GARAGE GRID NORTH HOUSE  HYDRANT INTERSECTION ANGLE INTERSECTION	SE SF. SHLDR SPECS SQ. SS. SY. STH STA. SW T TC TC TL TEL TEMP TLE TYP USH UG V	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB TRANSIT LINE TELEPHONE TEMPORARY TEMPORARY TEMPORARY LIMITED EASEMENT TYPICAL UNITED STATES HIGHWAY UNDERGROUND DESIGN SPEED
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D DHV DHV DWY EBS ELEV., EL ELEC. EXC EXIST FF FF, FL, F/L FS G G G H  HYD I INTERS INV. IP LC	DEGREE OF CURVE DESIGN HOURLY VOLUME DRIVEWAY EXC. BELOW SUB GRADE ELEVATION EXISTING EXST FIELD ENTRANCE FACE TO FACE FLOW LINE FULL SUPERELEVATION GARAGE GRID NORTH HOUSE  HYDRANT INTERSECTION ANGLE INTERSECTION INVERT IRON PIPE LONG CHORD OF CURVE	SE SF. SHLDR SPECS SQ. SS. SY. STH ST. STA. SW T TC TC TL TEL TEMP TLE TYP USH UG V VAR. VERT	SUPER ELEVATION SQUARE FEET SHOULDER SPECIFICATIONS SQUARE STORM SEWER SQUARE YARD STATE TRUNK HIGHWAY STREET STATION SIDEWALK TANGENT TOP OF CURB TRANSIT LINE TELEPHONE TEMPORARY TEMPORARY LIMITED EASEMENT TYPICAL UNDERGROUND DESIGN SPEED VARIABLE VERTICAL

LAYOUT NAME - GENERAL NOTES

#### **UTILITY CONTACTS**

#### **ELECTRIC**

WISCONSIN PUBLIC SERVICE WENDY CHRIST P.O. BOX 19001 GREEN BAY, WI 54307 PHONE: (920) 617-5173

EMAIL: UtilitiesRelocation@wisconsinpublicservice.com

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



#### OTHER CONTACTS

#### **DESIGN CONSULTANT**

COOPER ENGINEERING JACOB FRIBERG 2600 COLLEGE DRIVE RICE LAKE, WI 54868 PHONE: (715) 234-7008

EMAIL: jfriberg@cooperengineering.net

#### LINCOLN COUNTY

HIGHWAY COMMISSIONER JOHN HANZ 100 COOPER STREET MERRILL, WI 54452 PHONE: (715) 539-2500 EMAIL: john.hanz@co.lincoln.wi.us

#### WDNR REGIONAL CONTACT

WDNR/WISDOT LIAISON WENDY HENNIGES 107 SUTLIFF AVENUE RHINELANDER, WI 54501 PHONE: (715) 365-8916 EMAIL: Wendy.Henniges@Wisconsin.gov

#### **GENERAL NOTES:**

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONSTRUCTION.

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND EROSION MAT PLACED.

4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH AN 2-INCH UPPER LAYER AND 2-INCH LOWER LAYER.

CTH X WILL BE CLOSED DURING CONSTRUCTION AND SIGNED DETOUR ROUTE WILL BE MARKED.

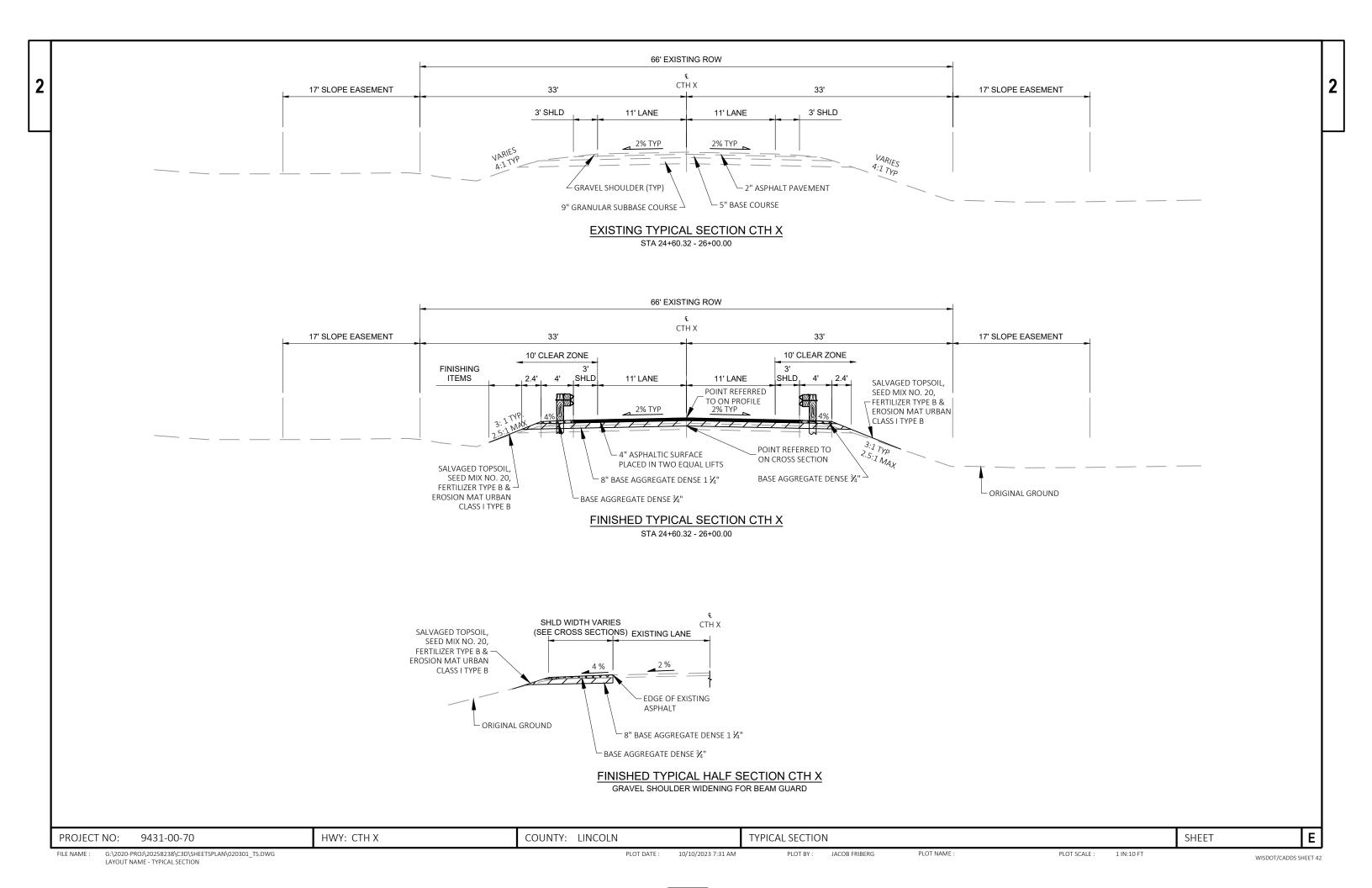
#### RUNOFF COEFFICIENT TABLE

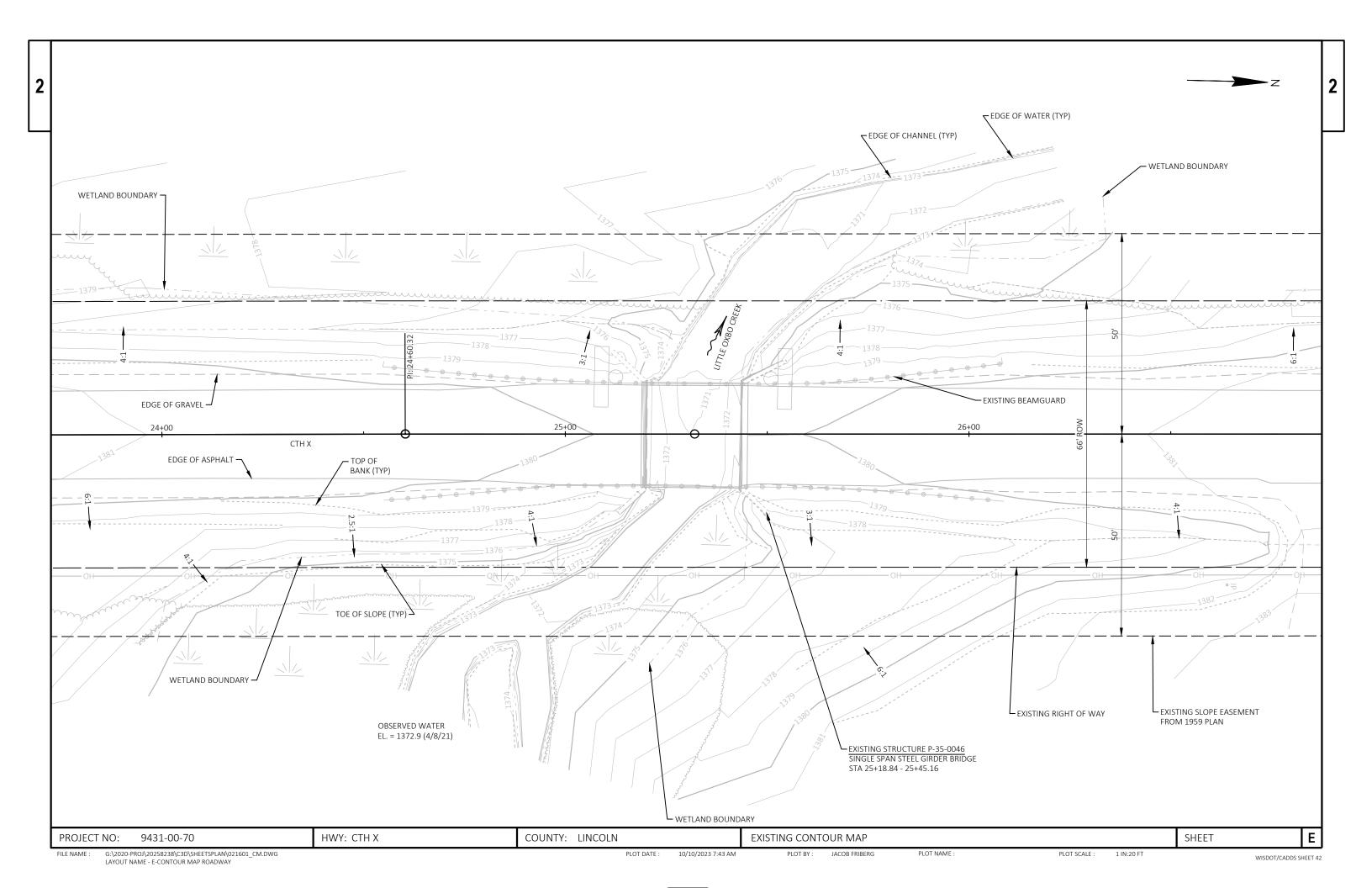
		H	DROLOGIC SC	OIL GRO	UP					
		Α			В			С		
	SI	OPE RA	NGE (%)	SL	OPE RA	NGE (%)	SL	OPE RA	NGE (%)	
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36	
PAVEMENT:										
ASPHALT			.7095							
CONCRETE			.8095							
BRICK			.7080							
DRIVES, WALKS	•		.7585				•			
ROOFS			.7595							
GRAVEL ROADS, SI	HOULDER	RS	.4060							

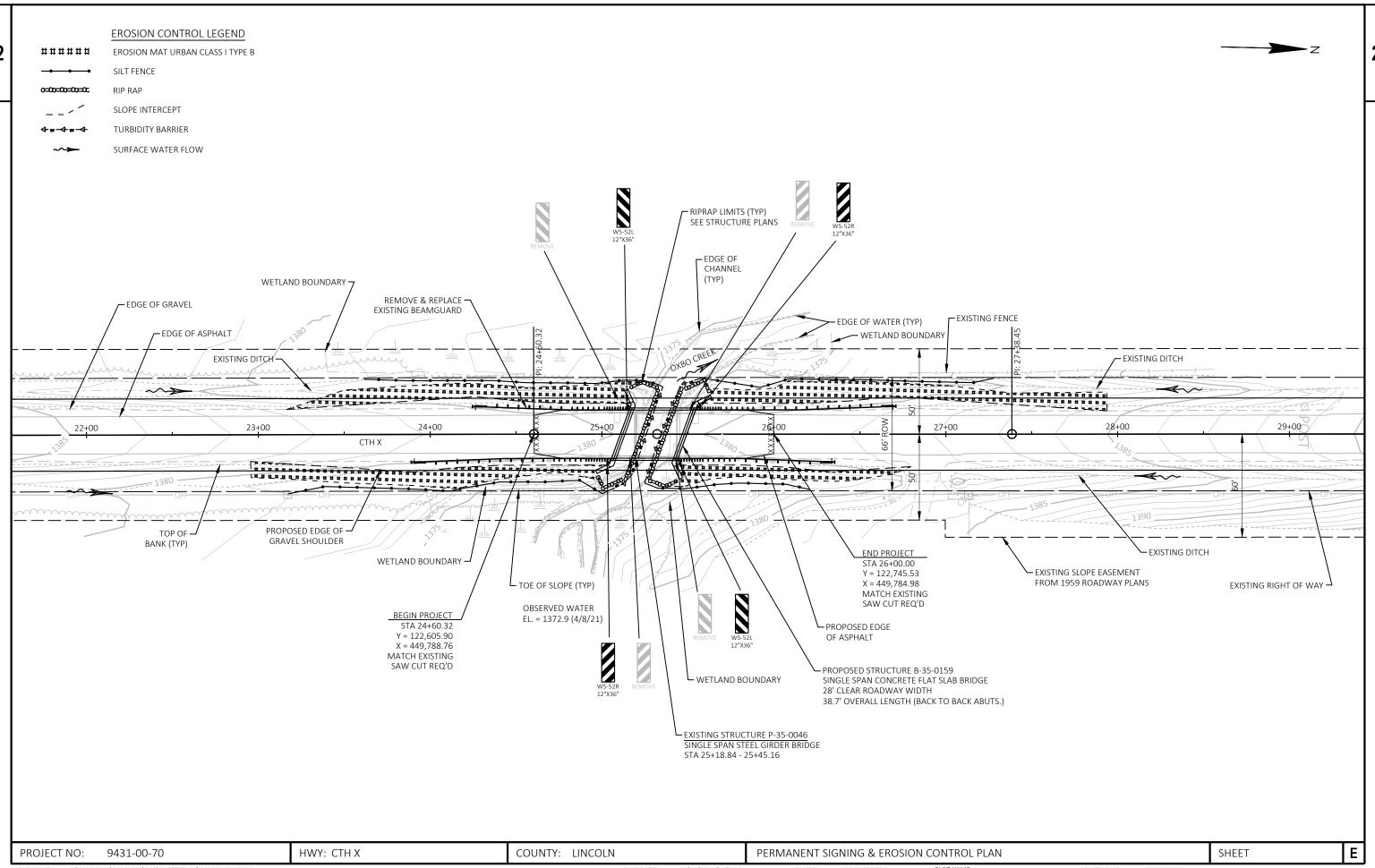
TOTAL PROJECT AREA = 0.75 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.35 ACRES

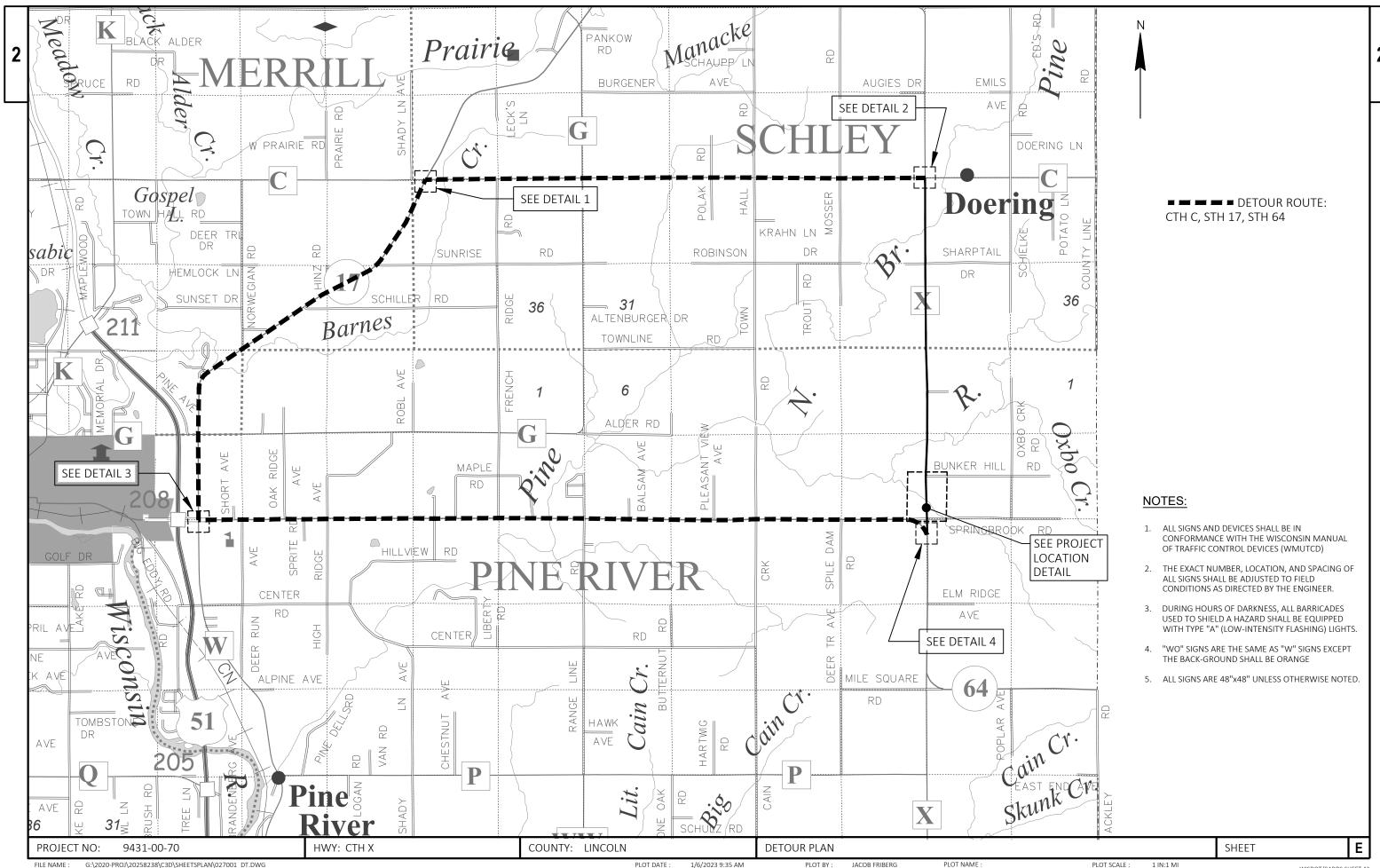
HWY: CTH X Ε PROJECT NO: 9431-00-70 COUNTY: LINCOLN **GENERAL NOTES** SHEET G:\2020-PROJ\20258238\C3D\SHEETSPLAN\020101 GN.DWG PLOT DATE : PLOT BY: JACOB FRIBERG PLOT NAME : PLOT SCALE : 1 IN:100 FT FILE NAME : 1/11/2024 1:59 PM WISDOT/CADDS SHEET 42







FILE NAME : G;\2020-PROJ\20258238\C3D\SHEETSPLAN\021601\_CM.DWG PLOT DATE : 10/10/2023 7:47 AM PLOT BY : JACOB FRIBERG PLOT NAME : ########## WISDOT/CADDS SHEET 42
LAYOUT NAME - PS & EC



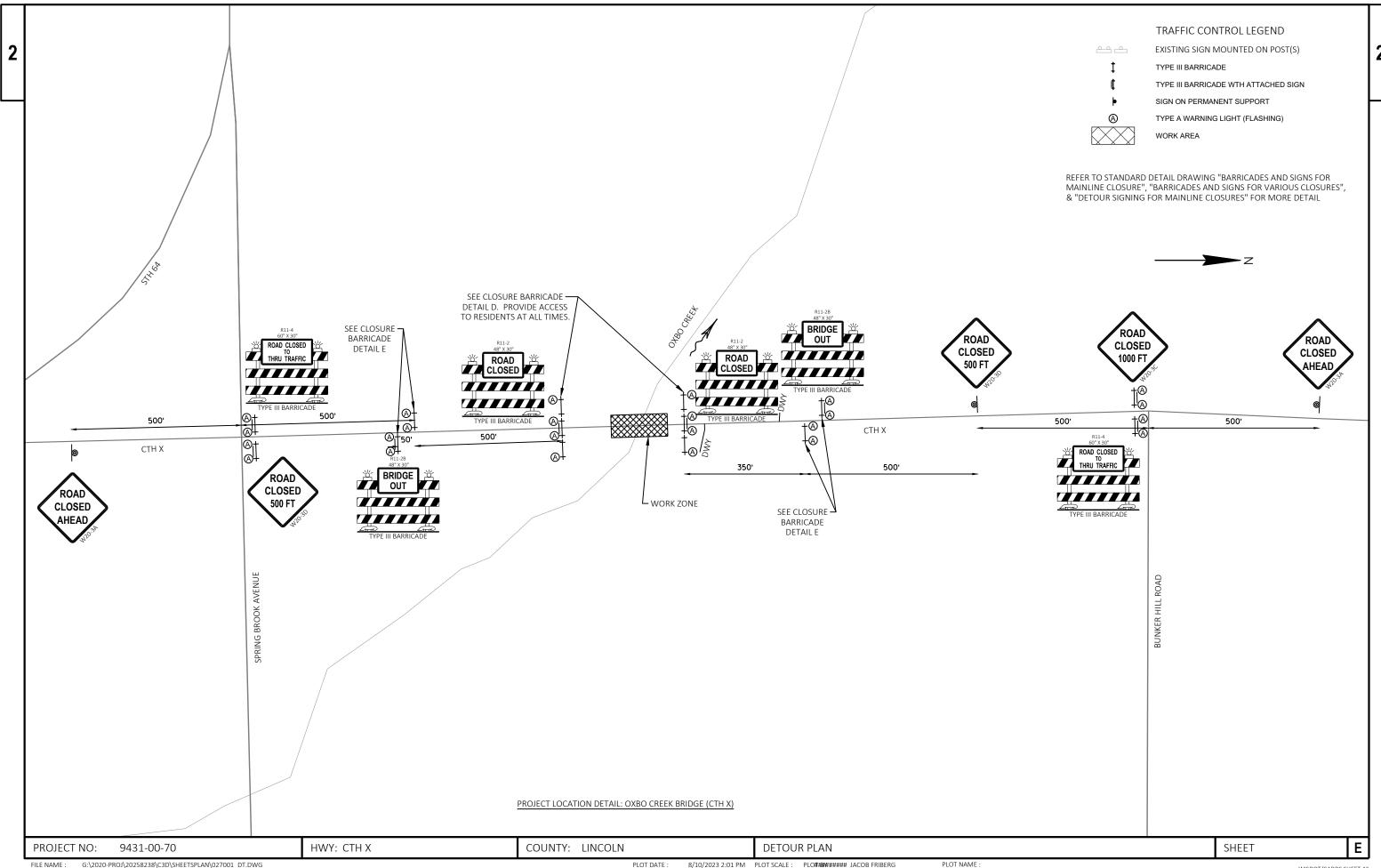
G:\2020-PROJ\20258238\C3D\SHEETSPLAN\027001\_DT.DWG FILE NAME : LAYOUT NAME - DETOUR OVERVIEW

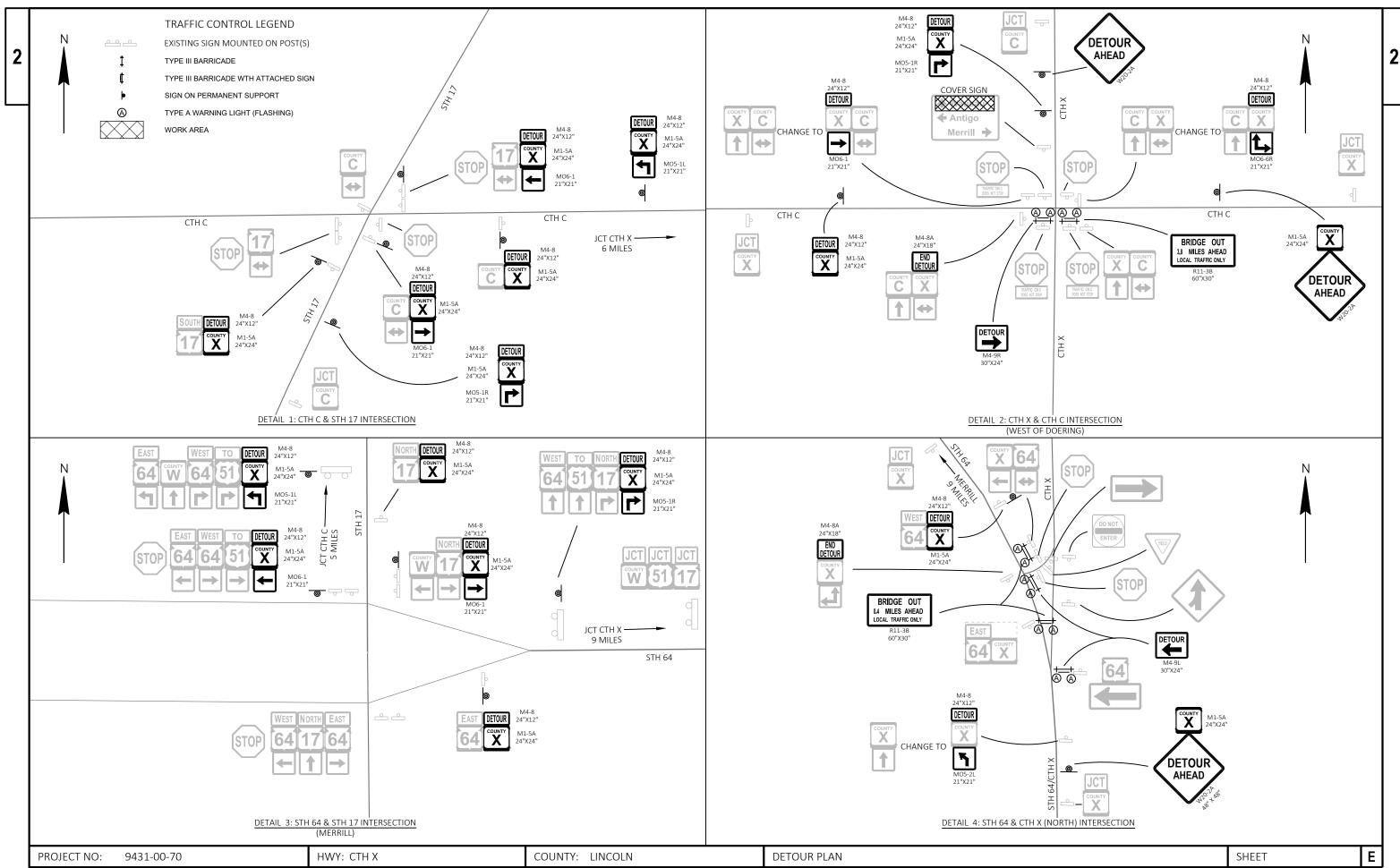
PLOT DATE : 1/6/2023 9:35 AM JACOB FRIBERG

PLOT NAME

PLOT SCALE :

WISDOT/CADDS SHEET 42





PLOT NAME

Reforming Surface   Refo						9431-00-70	
14   20.9   16   Removing Guardian   LF   310,000   235,000   23	Line	Item	Item Description	Unit	Total	Qty	
10   20   20   20   20   20   20   20	0002						
10	0004	204.0165	•		310.000	310.000	
10   21   10   10   21   21   31   31   31   31   31   31	0006	205.0100				235.000	
12   213 010   Finishing Roadway (project) 01 - 913-10-70   EACH   1.000   1.000	8000		- , , , , , , , , , , , , , , , , , , ,				
18	010						
18	012						
	014						
20	016						
22         502.20 Mode         Concrete Masson Picinges         CY         128.000         128.000           26         505.200 Mode         Bar Sine Reinforcement HS Structures         LB         4,680.000         4,680.000           26         505.300 Mode         Bar Sine Reinforcement HS Structures         LB         20,720.000         32.000           26         513.0001 Mode         Railing Tuduler Type M         LF         20,000         32.000           26         513.0001 Mode         Railing Tuduler Type M         LF         42.000         32.000           26         513.0001 Mode         Rispan-Pleasy         CF         4.000         420.000           26         503.0001 Mode         Plang Steel H**To-Hint X 42 b.         LF         4.000         420.000           27         614.2001 Mode         Mode Steel Anni Anni Anni Anni Anni Anni Anni Ann	018						
24	020		·				
85         505,0400         Bar Slabel Reinforcoment HS Structures         LB         4,000,000         4,000,000           80         505,0600         Bar Slabel Reinforcoment HS Consections         LB         2,012,000         12,000           90         513,4001         Ruling Tubular Typo M         LF         82,000         12,000           91         516,0500         Pluing Slaw HP 10-Inch X 42 Lb         LF         42,000         420,000           91         61,0500         Pluing Markey         CY         100,000         150,000           91         61,0500         Pluing Markey         CY         100,000         150,000           91         61,0500         MGS Countralia Timanistic         LF         5,000         150,000           91         61,0500         MGS Countralia Timanistic         LF         157,600         157,600           91         61,0100         Maintenance and Repair of Haul Roads (project) 91,9431-00-70         EACH         1,000         1,000           90         62,41000         Water         MGS Caustralia Timanistic         LF         775,000         5,000           90         62,81004         Sili Fance         LB         775,000         5,000         5,000           90 <td>022</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	022						
88         650,0600         Bar Issuel Reinfortoment HS Coated Structures         LB         20,120,000         22,000           13         518,0500         Rubberlead Membrane Waterproofing         SY         12,000         42,000           18         551,10500         Riberlead Membrane Waterproofing         SY         12,000         42,000           86         605,0300         Ripra Heavy         CY         10,000         150,000           18         612,040         Pipe Underdrain Waterpeaf Sinch         LF         150,000         150,000           18         612,040         MSS Guardrail Terminal EAT         EACH         4,000         4,000           46         618,050         Most Guardrain Waterpeaf Haul Reads (project) 01,9431-00-70         EACH         1,000         1,000           50         624,050         Most Jacabase and Repair of Haul Reads (project) 01,9431-00-70         EACH         1,000         1,000           62         635,050         Salvagea Topsail         SY         90,000         90,000           50         624,050         Salvagea Topsail         SY         90,000         90,000           50         628,1520         Sill Fence Maintenance         LF         775,000         775,000           60 <td>024</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	024						
13	026						
15.05.00   Rubberized Membrane Walesprooling   SY   12.00   12.000   15.0	028						
150,1100   Piling Steel HP 10-Inch X 42 Lb   LF   420,000   420,000     151,42500   MSS Quardral 3   LF   150,000   150,000     151,42500   MSS Quardral 3   LF   150,000   150,000     151,42500   MSS Quardral 3   LF   150,000   150,000     151,42500   MSS Quardral 3   LF   157,600   157,600     151,41500   MSS Quardral 3   LF   157,600   157,600     151,41500   MSS Quardral 3   LF   157,600   150,000     151,41500   MSS Quardral 4   LF   157,600   150,000     151,41500   MSS Quardral 5   LF   157,600   157,600   157,600     151,41500   MSS Quardral 5   LF   157,600   157,600   150,000     151,41500   MSS Quardral 5   LF   157,600   150,000     151,41500   MSS Qu	030		= ::				
100   100	032						
12   12   13   13   13   14   15   15   15   15   15   15   15	034						
14   250   MGS The Beam Transition	036						
42       614 2500       MSC Strive Beam Transition       LF       157.600       400         46       618 0100       MSC Sugrafual Terminal EAT       EACH       1.000       1.000         46       618 0100       Mobilization       EACH       1.000       1.000         50       624 0100       Water       MSC Justical Stripe Stri	038						
44       614 2610       MSS Guardrail Terminal EAT       EACH       4.000       4.000         46       618 1010       Mointenace and Repair of Haul Roads (project) 01. 9431-00-70       EACH       1.000       1.000         48       619.1000       Mobilization       EACH       1.000       1.000         52       625.0500       Salvaged Topsoil       SY       900.000       900.000         54       628.1504       Silf Fence Maintenance       LF       775.000       775.000         56       628.1505       Silf Fence Maintenance       LF       775.000       775.000         50       628.1505       Silf Fence Maintenance       EACH       4.000       4.000         50       628.1505       Mobilizations Energency Erosion Control       EACH       4.000       4.000         50       628.2008       Erosion Mat Urban Class I Type B       SY       900.000       900.000         52       628.2008       Erosion Mat Urban Class I Type B       SY       900.000       300.000         58       630.0120       Seeding Mixture No. 20       LB       300.000       300.000         70       630.0500       Seeding Mixture No. 20       LB       300.000       400.00         70	040						
48       618.0100       Maintenance and Repair of Haul Roads (project) 01. 9431-00-70       EACH       1.000       1.000         36       619.1000       Mobilization       EACH       1.000       1.000         50       624.0101       Water       MGAL       5.000       5.000         54       628.1504       Six Fence Maintenance       LF       775.000       775.000         56       628.1905       Mobilizations Encision Control       EACH       4.000       4.000         50       628.1910       Mobilizations Encision Control       EACH       4.000       4.000         50       628.1910       Mobilizations Encision Control       EACH       4.000       4.000         50       628.1910       Mobilizations Encision Control       EACH       4.000       4.000         51       628.005       Turbidity Barriers       SY       90.000       900.000         52       628.005       Turbidity Barriers       SY       1.000       1.000         52       629.005       Seeding Mixture No.20       LB       3.000       3.000         52       629.015       Fertilizer Type B       SY       1.000       4.000         56       639.0202       Seeding Mixture No.	)42						
48         619.1000         Mobilization         EACH         1.000         1.000           50         624.1010         Wilster         MGAL         5.000         5.000           52         625.0500         Salvaged Topsoil         SY         900.000         900.000           54         628.1520         Silf Fence Maintenance         LF         775.000         775.000           58         628.1520         Silf Fence Maintenance         LF         775.000         775.000           50         628.1520         Silf Fence Maintenance         LF         775.000         775.000           50         628.1910         Mobilizations Enreigency Erosion Control         EACH         4.000         4.000           50         628.2081         Fresion Mat Urban Class I Type B         SY         900.00         900.000           52         628.2008         Turbidity Barriers         SY         900.00         130.000           63         639.0120         Seeding Mixture No.20         LB         30.000         30.000           70         630.0503         Seed Water         MGAL         30.000         30.000           70         630.0503         Seed Water         FR         12.00         4.000	)44						
50         624 0100         Water         MGAL         5 000         5 000           52         625 0500         Salvaged Topsoil         SY         900 000         900 000           54         628 1504         Silf Fence Maintenance         LF         775 000         775 000           56         628 1905         Mobilizations Erosin Control         EACH         4 000         4 000           50         628 1910         Mobilizations Emergency Erosin Control         EACH         4 000         2 000           50         628 2001         Erosin Mat Urban Class I Type B         SY         900 000         900 000           54         628 0005         Turbidity Barriers         SY         130 000         130 000           58         630 0120         Secting Mixture No. 20         LB         300 00         300 00           58         630 0120         Seed Water         BA         300 00         300 00           70         630 0500         Seed Water         EACH         4 000         4 000           74         637 2230         Signs Type II Reflective F         SF         1 200         1 200           75         633 0500         Removing Signs Type II         EACH         4 000 <td< td=""><td>)46</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	)46						
52       6.25.0500       Salvaged Topsoil       SY       900.000       900.000         45       6.28.1520       Silt Fence Maintenance       LF       775.000       775.000         56       6.28.1520       Silt Fence Maintenance       LF       775.000       775.000         50       6.28.1910       Mobilizations Errosion Control       EACH       4.000       4.000         52       6.28.2018       Ersoin Mat Urban Class i Type B       SY       900.000       900.000         56       6.28.2020       Ersoin Mat Urban Class i Type B       SY       900.000       900.000         56       6.29.0210       Fertilizer Type B       CWT       0.600       0.600         57       6.30.0120       Seeding Mixture No. 20       LB       30.000       30.000         72       6.30.0120       Seeding Mixture No. 20       LB       30.000       30.000         72       6.34.0612       Posts Wood 4x6-inch X 12-FT       EACH       4.000       4.000         76       6.38.2602       Removing Signs Type II       EACH       4.000       4.000         80       6.34.0612       Field Office Type B       EACH       4.000       4.000         81       6.33.000       Fem	)48						
1	50						
66         628.1520         Silk Fence Maintenance         LF         775.000         775.000           68         628.1950         Mobilizations Erosion Control         EACH         4.000         4.000           50         628.1910         Mobilizations Erosion Control         EACH         4.000         900.000           52         628.2008         Frosion Mat Urban Class I Type B         SY         900.000         900.000           66         629.0210         Fertilizer Type B         CWT         0.600         0.600           66         630.0120         Seeding Mixture No. 20         LB         30.000         30.000           70         630.050         Seed Water         MGAL         30.000         30.000           70         630.6122         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           70         637.2230         Signs Type II Reflective F         SF         12.000         12.000           70         638.2002         Removing Signs Type II Signs Stype II         EACH         4.000         4.000           81         643.0201         Traffic Control Barricades Type III         DAY         1,400.000         1,400.000           82         643.0202         Traffic Control G							
58         628.1905         Mobilizations Erosion Control         EACH         4.000         4.000           52         628.2008         Erosion Mat Urban Class I Type B         SY         900.000         900.000           54         628.6005         Turbidity Barriers         SY         130.000         130.000           68         630.012         Seeding Mixture No.20         LB         30.000         30.000           68         630.0120         Seeding Mixture No.20         LB         30.000         30.000           70         630.0501         Seed Water         MGAL         30.000         4.000           74         637.2230         Signs Type II Reflective F         SF         12.000         12.000           76         638.2062         Removing Signs Type II         EACH         4.000         4.000           76         638.2062         Removing Signs Type II         EACH         4.000         4.000           76         638.2001         File Office Type B         EACH         4.000         4.000           76         643.0402         Traffic Control Barricades Type III         DAY         1.400.000         1.000           76         643.0402         Traffic Control Warning Lights Type A	)54						
50         628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           52         628.2008         Erosion Mat Urban Class i Type B         SY         900.000         900.000           54         628.6005         Turbidity Barriers         SY         130.000         130.000           66         629.0210         Fertilizer Type B         CWT         0.600         0.600           70         630.0500         Seedi Water No. 20         LB         30.000         30.000           70         630.0500         Seed Water         MGAL         30.000         30.000           72         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           74         637.220         Signs Type II Reflective F         SF         12.000         1.000           76         638.2002         Removing Signl Sign Supports         EACH         4.000         4.000           80         642.0101         Field Control Barricades Type III         DAY         1,400.000         1,400.000           81         643.0705         Traffic Control Warning Lights Type A         DAY         4,830.000         4,830.000           86         643.0900         Traffic Contro							
52         628.2008         Erosion Mat Urban Class I Type B         SY         900.000         900.000           54         628.6005         Turbicity Barriers         SY         130.000         130.000           56         629.0210         Fertilizer Type B         CWT         0.600         0.600           58         630.0120         Seeding Mixture No. 20         LB         30.000         30.000           70         630.0500         Seed Water         MGAL         30.000         30.000           74         637.2230         Signs Type II Reflective F         EACH         4.000         4.000           76         638.2602         Removing Signs Type II         EACH         4.000         4.000           86         630.012         Field Office Type B         EACH         4.000         4.000           87         638.2602         Removing Signs Type II         EACH         4.000         4.000           86         639.012         Traffic Control Barricades Type III         DAY         1,400.000         1,400.000           82         643.020         Traffic Control Signs         DAY         4,830.000         4,830.000           88         643.0900         Traffic Control Covering Signs Type II	58						
64         628.6005         Turbidity Barriers         SY         130.000         130.000           66         629.0210         Fertilizer Type B         CWT         0.600         0.600           83         630.120         Seeding Mixture No. 20         LB         30.000         30.000           70         630.0500         Seed Water         MGAL         30.000         30.000           72         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           76         638.2602         Removing Signs Type II         EACH         4.000         4.000           78         638.3000         Removing Signs Supports         EACH         4.000         4.000           80         642.5001         Field Office Type B         EACH         1.000         1.000           80         643.040         Traffic Control Barricades Type III         DAY         1,400.000         1,400.000           80         643.0900         Traffic Control Signs         DAY         4,830.000         4,830.000           80         643.0900         Traffic Control Covering Signs Type II         EACH         1.000         1.000           80         643.0900         Traffic Control Covering Signs Type II	60						
66         629.0210         Fertilizer Type B         CWT         0.600         0.600           88         630.0120         Seeding Mixture No. 20         LB         30.000         30.000           70         630.050         Seed Water         MGAL         30.000         30.000           72         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           74         637.2230         Signs Type II Reffective F         SF         12.000         12.000           78         638.2602         Removing Signs Type II         EACH         4.000         4.000           88         633.300         Removing Small Sign Supports         EACH         4.000         4.000           80         642.5001         Field Office Type B         EACH         4.000         4.000           84         643.0705         Traffic Control Barricades Type III         DAY         1,400.000         1,400.000           84         643.0705         Traffic Control Warring Lights Type A         DAY         4,830.000         4,830.000           85         643.0900         Traffic Control Covering Signs Type II         EACH         1.000         1.000           86         643.0900         Traffic Control Coveri	62		* *				
58       630.0120       Seeding Mixture No. 20       LB       30.000       30.000         70       630.0500       Seed Water       MGAL       30.000       30.000         72       634.0612       Posts Wood 4x6-Inch X 12-FT       EACH       4.000       4.000         74       637.2230       Signs Type II Reflective F       SF       12.000       12.000         76       638.2602       Removing Signs Type II       EACH       4.000       4.000         78       638.3000       Removing Small Sign Supports       EACH       4.000       4.000         80       642.5001       Field Office Type B       EACH       1.000       1.000         92       643.0420       Traffic Control Barricades Type III       DAY       1,400.000       1,400.000         93       643.0900       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         94       643.0900       Traffic Control Signs       DAY       4,830.000       4,830.000         95       643.5000       Traffic Control Covering Signs Type II       EACH       1.000       1.000         96       643.011       Geotextile Type DF Schedule A       SY       96.000       96.000         96							
70         630.0500         Seed Water         MGAL         30.000         30.000           72         634.0612         Posts Wood 4x6-Inch X 12-FT         EACH         4.000         4.000           76         637.2230         Signs Type II Reflective F         SF         12.000         12.000           76         638.2602         Removing Signs Type II         EACH         4.000         4.000           78         638.3000         Removing Small Sign Supports         EACH         4.000         4.000           80         642.5001         Field Office Type B         EACH         1.000         1.000           82         633.0420         Traffic Control Barricades Type III         DAY         1,400.000         1,400.000           84         643.0900         Traffic Control Signs         DAY         4,830.000         4,830.000           86         643.0900         Traffic Control Covering Signs Type II         EACH         1.000         1.000           88         643.0900         Traffic Control Covering Signs Type II         EACH         1.000         1.000           80         643.0900         Traffic Control Covering Signs Type II         EACH         1.000         1.000           80         643.011 <th< td=""><td>66</td><td></td><td>**</td><td></td><td></td><td></td><td></td></th<>	66		**				
72       634.0612       Posts Wood 4x6-Inch X 12-FT       EACH       4.000       4.000         74       637.2230       Signs Type II Reflective F       SF       12.000       12.000         76       638.2002       Removing Signs Type II       EACH       4.000       4.000         78       638.3000       Removing Small Sign Supports       EACH       4.000       4.000         80       642.5001       Field Office Type B       EACH       1.000       1.000         82       643.0420       Traffic Control Barricades Type III       DAY       1,400.000       1,400.000         84       643.0705       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         88       643.0900       Traffic Control Covering Signs Type II       EACH       1.000       1.000         88       643.0900       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control       SY       96.000       96.000         90       645.011       Geotextile Type DF Schedule A       SY       150.000       560.000	068		-				
74         637.230         Signs Type II Reflective F         SF         12.000         12.000           76         638.2602         Removing Signs Type II         EACH         4.000         4.000           78         638.3000         Removing Small Sign Supports         EACH         4.000         4.000           80         642.5001         Field Office Type B         EACH         1.000         1.000           82         643.0420         Traffic Control Barricades Type III         DAY         1,400.000         1,400.000           84         643.0705         Traffic Control Warning Lights Type A         DAY         2,520.000         2,520.000           86         643.0900         Traffic Control Covering Signs Type II         EACH         1.000         1.000           88         643.0920         Traffic Control Covering Signs Type II         EACH         1.000         1.000           90         643.5000         Traffic Control Covering Signs Type II         EACH         1.000         1.000           94         645.011         Geotextile Type DF Schedule A         SY         96.000         96.000           94         645.0120         Geotextile Type HR         SY         150.000         150.000           96	70						
76       638.2602       Removing Signs Type II       EACH       4.000       4.000         78       638.3000       Removing Small Sign Supports       EACH       4.000       4.000         80       642.5001       Field Office Type B       EACH       1.000       1.000         81       643.0420       Traffic Control Barricades Type III       DAY       1,400.000       1,400.000         84       643.0705       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         86       643.0900       Traffic Control Signs       DAY       4,830.000       4,830.000         88       643.0920       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control       EACH       1.000       1.000         92       645.0111       Geotextile Type DF Schedule A       SY       96.000       96.000         94       645.0120       Marking Line Epoxy 4-Inch       LF       560.000       560.000         98       650.4500       Construction Staking Subgrade       LF       100.000       100.000							
78       638.3000       Removing Small Sign Supports       EACH       4.000       4.000         80       642.5001       Field Office Type B       EACH       1.000       1.000         82       643.0420       Traffic Control Barricades Type III       DAY       1,400.000       1,400.000         84       643.0705       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         86       643.0900       Traffic Control Covering Signs Type II       EACH       1.000       1.000         86       643.5000       Traffic Control Covering Signs Type II       EACH       1.000       1.000         80       643.5000       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control Statile Type DF Schedule A       SY       96.000       96.000         94       645.0120       Geotextile Type HR       SY       150.000       150.000         96       646.1020       Marking Line Epoxy 4-Inch       LF       560.000       560.000         98       650.4500       Construction Staking Subgrade       LF       100.000				0.			
80       642.5001       Field Office Type B       EACH       1.000       1.000         82       643.0420       Traffic Control Barricades Type III       DAY       1,400.000       1,400.000         84       643.0705       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         86       643.0900       Traffic Control Signs       DAY       4,830.000       4,830.000         88       643.0920       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control       EACH       1.000       1.000         92       645.0111       Geotextile Type DF Schedule A       SY       96.000       96.000         94       645.0120       Geotextile Type HR       SY       150.000       150.000         96       646.1020       Marking Line Epoxy 4-Inch       LF       560.000       560.000         98       650.4500       Construction Staking Subgrade       LF       100.000       100.000	76						
32       643.0420       Traffic Control Barricades Type III       DAY       1,400.000       1,400.000         34       643.0705       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         36       643.0900       Traffic Control Signs       DAY       4,830.000       4,830.000         38       643.0920       Traffic Control Covering Signs Type II       EACH       1.000       1.000         30       643.5000       Traffic Control       EACH       1.000       1.000         30       645.0111       Geotextile Type DF Schedule A       SY       96.000       96.000         34       645.0120       Geotextile Type HR       SY       150.000       150.000         36       646.1020       Marking Line Epoxy 4-Inch       LF       560.000       560.000         38       650.4500       Construction Staking Subgrade       LF       100.000       100.000	78						
34       643.0705       Traffic Control Warning Lights Type A       DAY       2,520.000       2,520.000         36       643.0900       Traffic Control Signs       DAY       4,830.000       4,830.000         38       643.0920       Traffic Control Covering Signs Type II       EACH       1.000       1.000         30       643.5000       Traffic Control       EACH       1.000       1.000         30       645.0111       Geotextile Type DF Schedule A       SY       96.000       96.000         30       645.0120       Geotextile Type HR       SY       150.000       150.000         30       646.1020       Marking Line Epoxy 4-Inch       LF       560.000       560.000         30       650.4500       Construction Staking Subgrade       LF       100.000       100.000	80						
36       643.0900       Traffic Control Signs       DAY       4,830.000       4,830.000         38       643.0920       Traffic Control Covering Signs Type II       EACH       1.000       1.000         39       643.5000       Traffic Control       EACH       1.000       1.000         40       645.0111       Geotextile Type DF Schedule A       SY       96.000         40       645.0120       Geotextile Type HR       SY       150.000         40       646.1020       Marking Line Epoxy 4-Inch       LF       560.000       560.000         40       650.4500       Construction Staking Subgrade       LF       100.000       100.000							
38       643.0920       Traffic Control Covering Signs Type II       EACH       1.000       1.000         90       643.5000       Traffic Control       EACH       1.000       1.000         92       645.0111       Geotextile Type DF Schedule A       SY       96.000         94       645.0120       Geotextile Type HR       SY       150.000         96       646.1020       Marking Line Epoxy 4-Inch       LF       560.000         98       650.4500       Construction Staking Subgrade       LF       100.000	84		• • ,,				
60 643.5000 Traffic Control EACH 1.000 1.000 62 645.0111 Geotextile Type DF Schedule A SY 96.000 96.000 63 645.0120 Geotextile Type HR SY 150.000 150.000 64 646.1020 Marking Line Epoxy 4-Inch LF 560.000 560.000 65 650.4500 Construction Staking Subgrade LF 100.000 100.000	86						
645.0111 Geotextile Type DF Schedule A SY 96.000 96.000 645.0120 Geotextile Type HR SY 150.000 150.000 646.1020 Marking Line Epoxy 4-Inch LF 560.000 560.000 68 650.4500 Construction Staking Subgrade LF 100.000 100.000							
94 645.0120 Geotextile Type HR SY 150.000 150.000 96 646.1020 Marking Line Epoxy 4-Inch LF 560.000 560.000 98 650.4500 Construction Staking Subgrade LF 100.000 100.000	90						
96 646.1020 Marking Line Epoxy 4-Inch LF 560.000 560.000 98 650.4500 Construction Staking Subgrade LF 100.000 100.000	92		••				
98 650.4500 Construction Staking Subgrade LF 100.000 100.000	)94						
	96						
00 650.5000 Construction Staking Base LF 100.000 100.000	98						
	100	650.5000	Construction Staking Base	LF	100.000	100.000	

#### 01/15/2024 07:49:48

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**Estimate Of Quantities** 

Line	Item	Item Description	Unit	Total	Qty
0102	650.6501	Construction Staking Structure Layout (structure) 01. B-35-0159	EACH	1.000	1.000
0104	650.9911	Construction Staking Supplemental Control (project) 01. 9431-00-70	EACH	1.000	1.000
0106	650.9920	Construction Staking Slope Stakes	LF	460.000	460.000
0108	690.0150	Sawing Asphalt	LF	45.000	45.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	1,280.000	1,280.000
0112	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 25+25	EACH	1.000	1.000
0114	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000
0116	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0118	SPV.0090	Special 01. Flashing Stainless Steel	LF	67.000	67.000

#### BEAMGUARD SUMMARY

				MGS	MGS	MGS
			REMOVING	GUARDRAIL	THRIE BEAM	GUARDRAIL
			GUARDRAIL	3	TRANSITION	TERMINAL EAT
			204.0165	614.2300	614.2500	614.2610
CATEGORY	POST #1 STA	LOCATION	LF	LF	LF	EA
0010	23+91	RT	77	25	39.4	1
0010	24+26	LT	78	-	39.4	1
0010	26+34	RT	77	-	39.4	1
0010	26+69	LT	78	25	39.4	1
		TOTAL 0010	310	50	157.6	Λ

#### EARTHWORK SUMMARY

					SALVAGED/			EXPANDED	
					UNUSEABLE			FILL	MASS
				EXCAVATION	PAVEMENT	AVAILABLE	UNEXPANDED	(FACTOR =	ORDINATE
				COMMON	MATERIAL	MATERIAL	FILL	1.25)	+/-
				205.0100					
CATEGORY	STATION <sup>-</sup>	TO STATIO	ON SIDE	CY	CY	CY	CY	CY	CY
0010	22+96	- 25+11	. LT/RT	120	10	110	75	95	15
0010	25+49	- 27+94	LT/RT	115	10	105	45	55	50
			TOTAL 0010	235	20	215	120	150	65

NOTES:	
EXCAVATION COMMON	EXCAVATION COMMON (CUT) INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
AVAILABLE MATERIAL	AVAILABLE MATERIAL = EXCAVATION COMMON - SALVAGED/UNUSEABLE PAVEMENT MATERIAL
EXPANDED FILL	EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
MASS ORDINATE	MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL PLJS QUANTITY INDICATES AN EXCESS OF MATERIAL. MINJS INDICATES A SHORTAGE OF MATERIAL.

#### BASE AGGREGATE DENSE & ASPHALT

						BASE AGGREGATE	BASE AGGREGATE				
						DENSE	DENSE		ASPHALTIC		SAWING
						3/4-INCH	1 1/4-INCH	TACK COAT	SURFACE	WATER	ASPHALT
				ASPHALT		305.0110	305.0120	455.0605	465.0105	624.0100	690.0150
CATEGORY	STATION TO	IAOITATS		THICKNESS (IN)	LAYERS	TON	TON	GAL	TON	MGAL	LF
CATEGORY	STATION TO	STATION	SIDE	(IIV)	LATERS	TON	TON	GAL	TON	IVIGAL	<u>LF</u>
0010	22+96 -	24+60	RT			50	75	-	-	0.9	-
0010	23+16 -	24+60	LT			45	65	-	-	0.7	-
0010	24+60 -	25+11	LT/RT	4	2	15	90	10	35	1.0	22
0010	25+49 -	26+00	LT/RT	4	2	15	90	10	35	1.0	23
0010	26+00 -	26+69	RT			25	40	-	-	0.5	-
0010	26+00 -	27+94	LT			50	80	-	-	0.9	-
					TOTAL 0010	200	440	20	70	5	45

#### RESTORATION SUMMARY

			<b>EROSION MAT</b>		SEEDING	
		SALVAGED	URBAN CLASS I	FERTILIZER	MIX NO.	
		TOPSOIL	TYPE B	TYPE B	20	SEED WATER
		625.0500	628.2008	629.0210	630.0120	630.0500
CATEGORY	LOCATION	SY	SY	CWT	IB	MGAL
0010	B-35-0159 SE	190	190	0.12	6	6
0010	B-35-0159 SW	190	190	0.12	6	6
0010	B-35-0159 NE	100	100	0.07	3	3
0010	B-35-0159 NW	240	240	0.16	7	7
0010	UNDISTRIBUTED	180	180	0.13	8	8
	TOTAL 0010	900	900	0.6	30	30

#### SILT FENCE

			SILT FENCE
		SILT FENCE	MAINTENANCE
		628.1504	628.1520
CATEGORY	LOCATION	LF	LF
0010	B-35-0159 SE	185	185
0010	B-35-0159 SW	170	170
0010	B-35-0159 NE	95	95
0010	B-35-0159 NW	170	170
0010	UNDISTRIBUTED	155	155
	TOTAL 0010	 775	775

PROJECT NO: 9431-00-70 HWY: CTH X COUNTY: LINCOLN MISCELLANEOUS QUANTITIES SHEET **E** 

FILE NAME : G:\2020-PROJ\20258238\C3D\SHEETSPLAN\030101\_MQ.DWG LAYOUT NAME - MQ1

PLOT DATE : 10/10/2023 1:51 PM

PLOT BY: JACOB FRIBERG

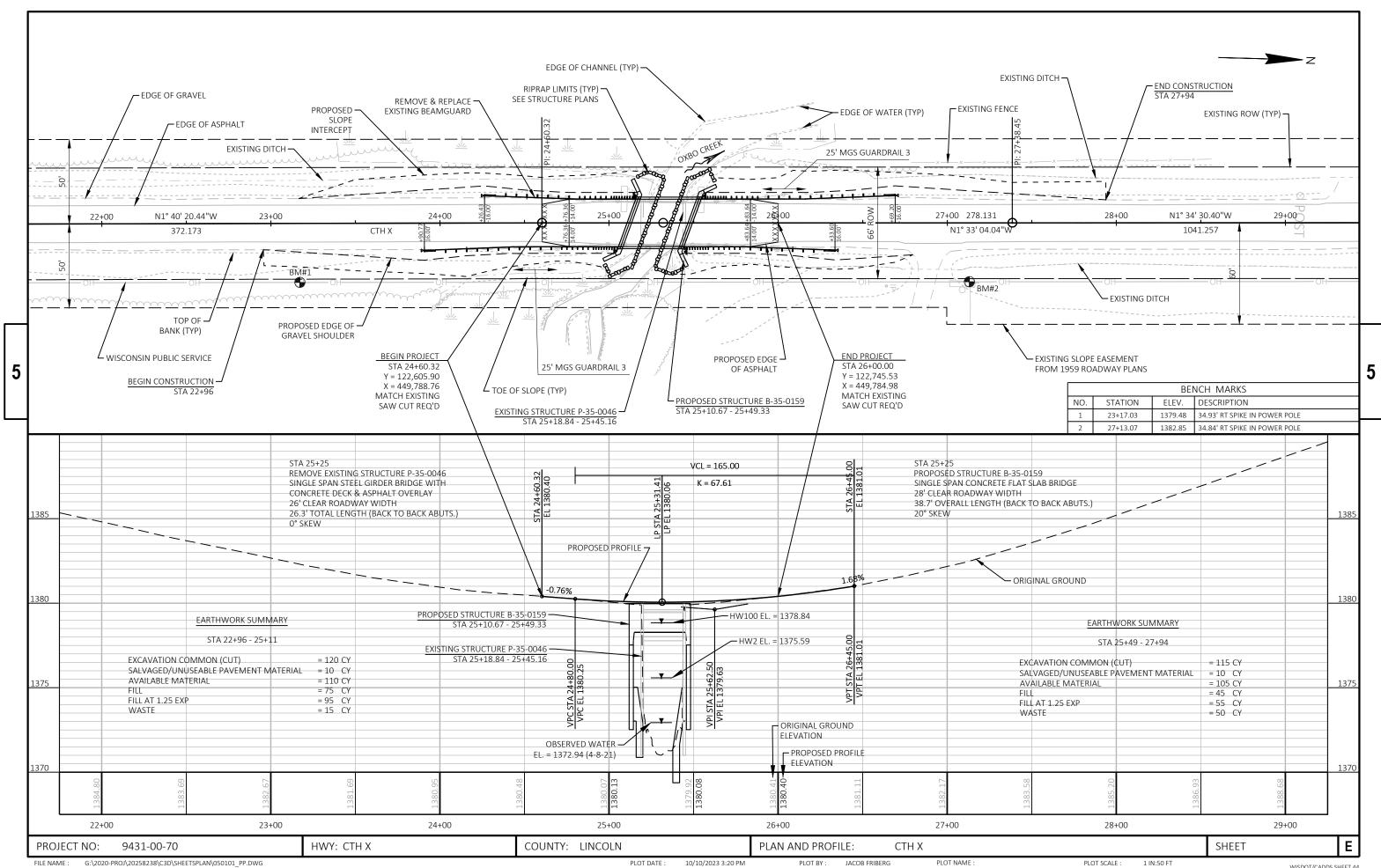
PLOT NAME :

PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

M( <u>ERO</u> :	DISION CONTROL MOBILIZATION  MOBILIZATIONS OBILIZATIONS EMERGENCY ISION CONTROL 628.1905 EA EA EA REMARKS  1 - SILT FENCE 1 - TURBIDITY BARRIS 1 - RESTORATION WI 1 - RESTORATION WI 1 - RESTORATION EA - 2 UNDISTRIBUTED	ER EST SIDE	TURBIDITY BARRIER  TURBIDITY BARRIER 628.6005  CATEGORY LOCATION SY REMARKS  0010 B-35-0159 SOUTH 65 80' LONG X 7' HIGH 0010 B-35-0159 NORTH 65 80' LONG X 7' HIGH TOTAL 0010 130	
W 4x6 <u>x 1</u> 634	1 3 1 1 W5-52R 1 3 1 1 W5-52L 1 3 1 1 W5-52L 1 3 1 1 W5-52R	ARKS	TRAFFIC CONTROL   TRAFFIC CO	OUTH SIDE ORTH SIDE SOUTH SIDE
	140 - 140	REMARKS  DOUBLE YELLOW CENTERLINE LT WHITE EDGELINE RT WHITE EDGELINE	CONSTRUCTION STAKING SUMMARY   CONSTRUCTION   STAKING SUMMARY   CONSTRUCTION   STAKING STAKING   STAKING   STAKING BASE   STAKING STAKING SUBGRADE   STAKING BASE   SLOPE STAKES   650.4500   650.5900   650.9920   EF   EF   EF   EF   EF   EF   EF   E	
PROJECT NO: 9431-00-70	HWY: CTH X	COUNTY: LINCOLN	MISCELLANEOUS QUANTITIES SHE	EET <b>E</b>

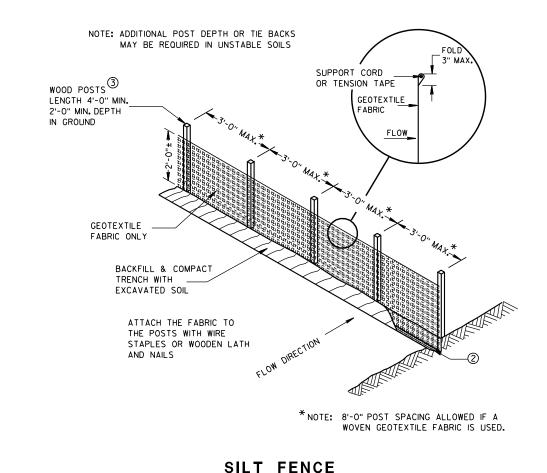
FILE NAME : G:\2020-PROJ/\20258238\C3D\SHEETSPLAN\030101\_MQ.DWG LAYOUT NAME - MQ2 PLOT DATE : 1/11/2024 2:17 PM PLOT BY: JACOB FRIBERG PLOT NAME : PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

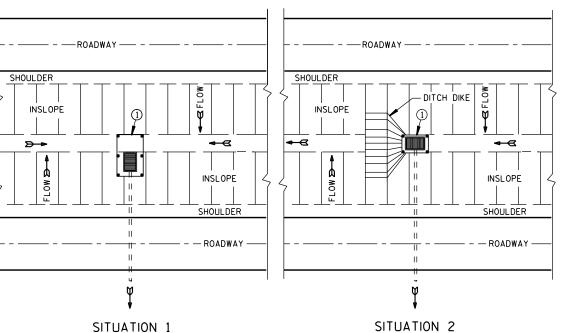


#### Standard Detail Drawing List

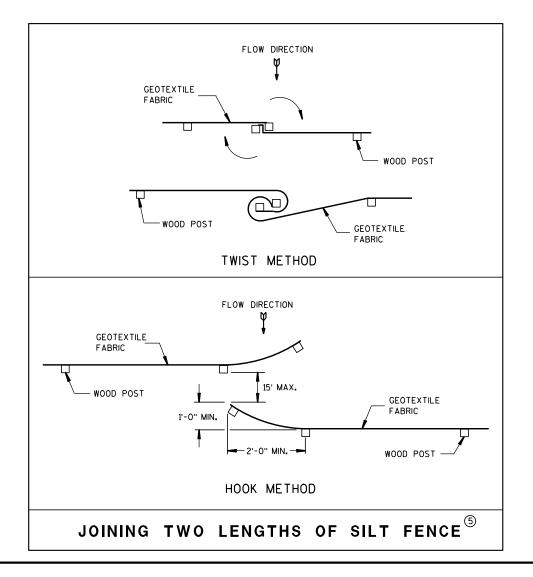
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

#### TYPICAL APPLICATION OF SILT FENCE





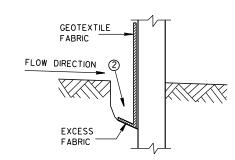
#### PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



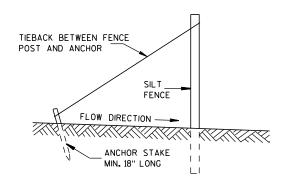
#### **GENERAL NOTES**

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 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

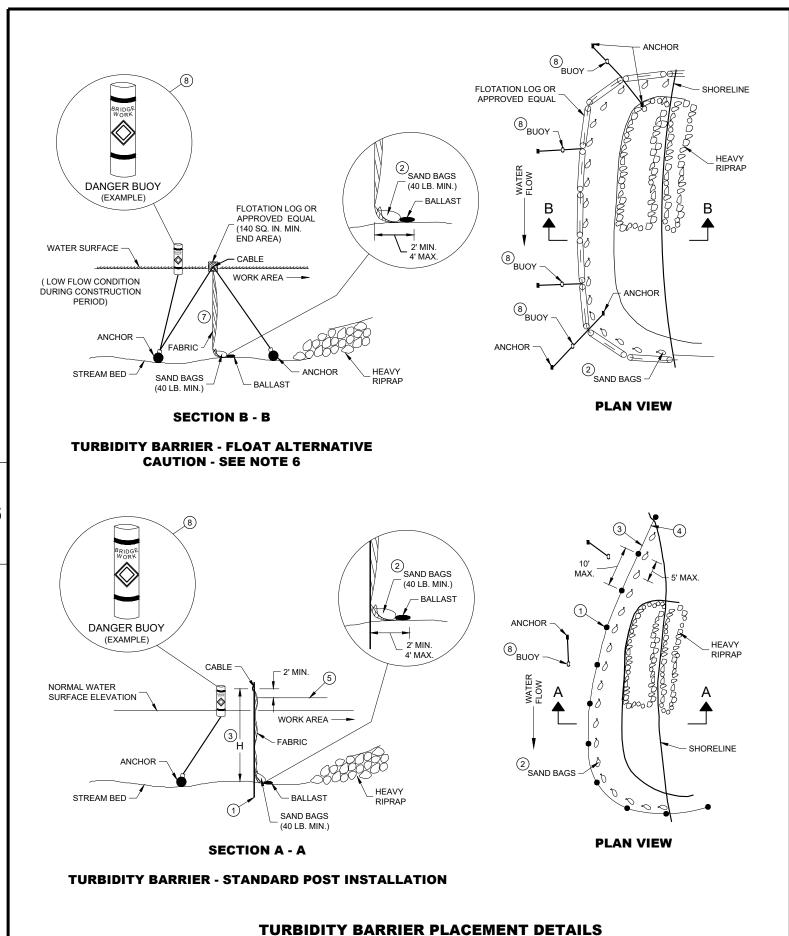


SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

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

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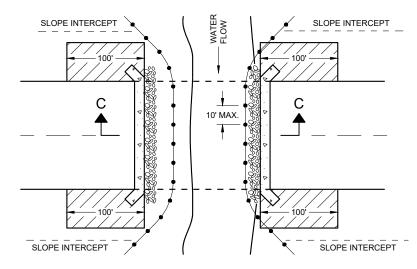


#### **GENERAL NOTES**

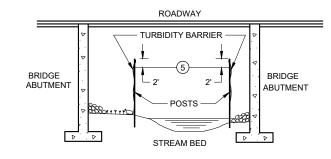
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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
- (2) SAND BAGS 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 FEET, 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
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 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 BEDROCK 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.



**PLAN VIEW** 



**SECTION C - C** 

**TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES** 

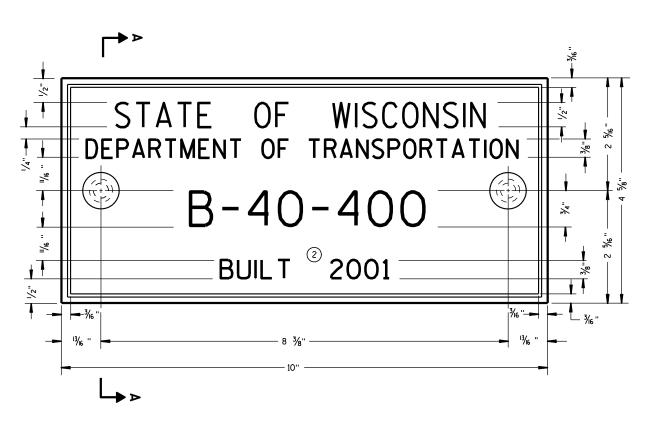
#### **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE

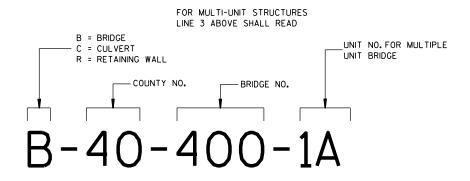
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#### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



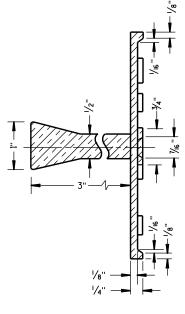
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **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.

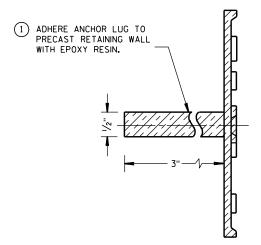
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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)

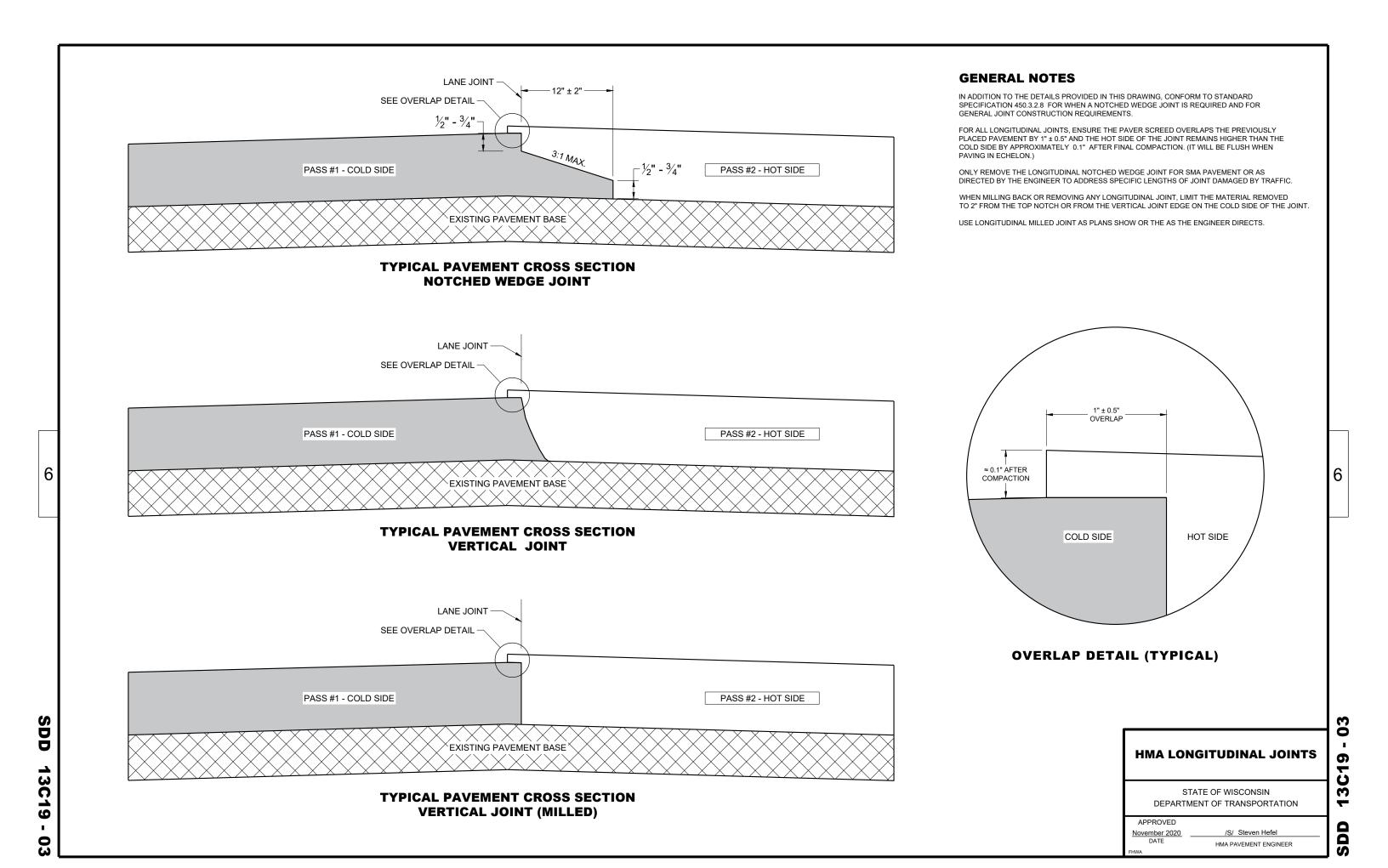
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

3-10

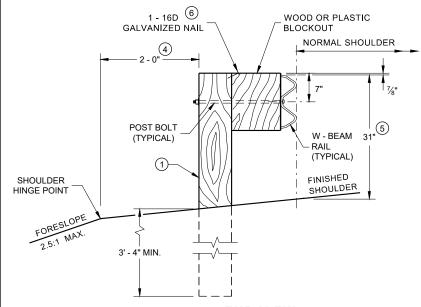
APPROVED

3/26/IO /S/ SCOT BECKET

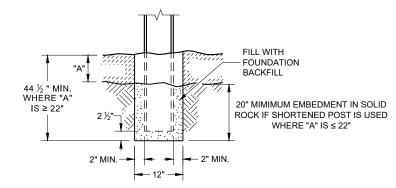
CHIEF STRUCTURAL DEVELOPMENT ENGINEER



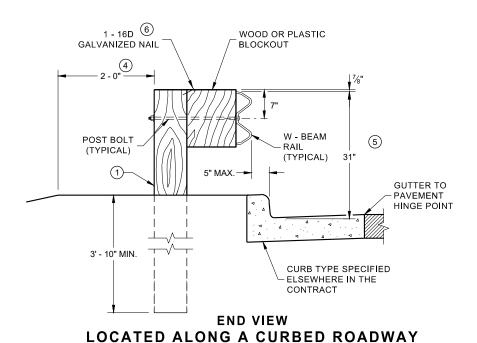
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{5}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS  $\pm 1"$  . FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- $\bigcirc$  TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

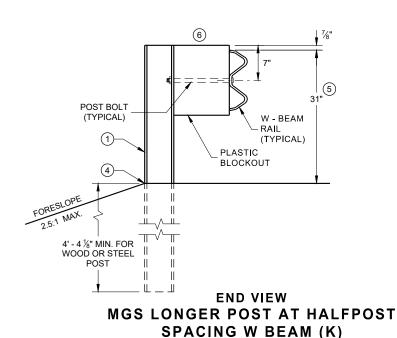


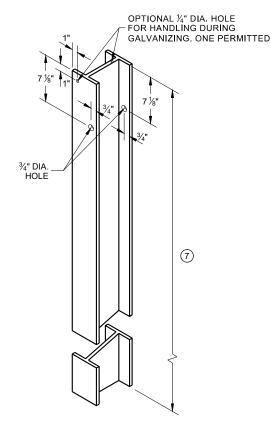
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



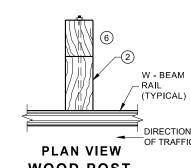
SETTING STEEL OR WOOD POST IN ROCK



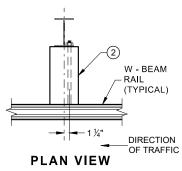




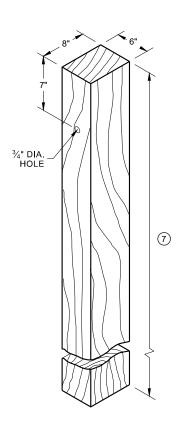
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



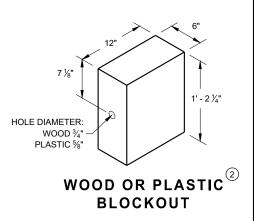
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



### MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 0

#### **FRONT VIEW** HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

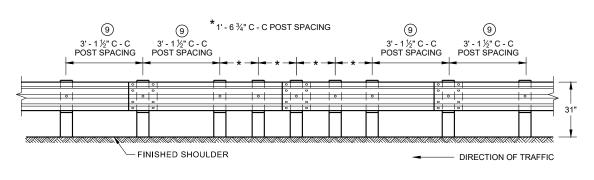
POST SPACING

DIRECTION OF TRAFFIC

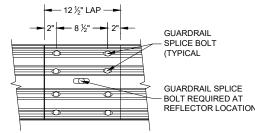
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)** 



**FRONT VIEW MID-SPAN BEAM SPLICE** 

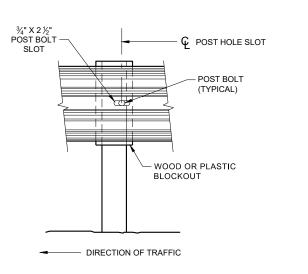
# REFLECTOR LOCATIONS

#### **GENERAL NOTES**

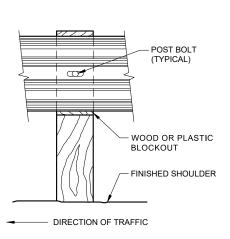
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

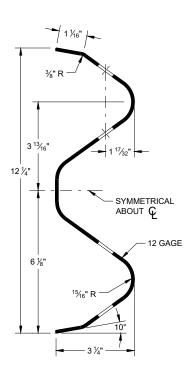
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



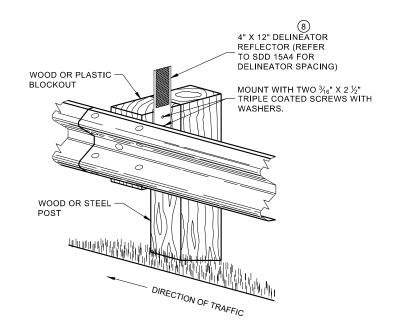
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 



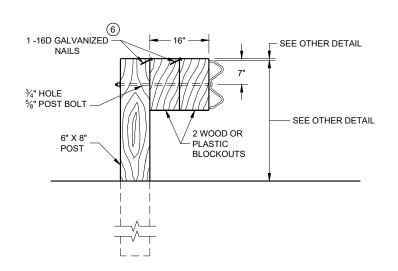
**ONE SIDED REFLECTOR DETAIL** AND TYPICAL INSTALLATION

**MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

**07**b

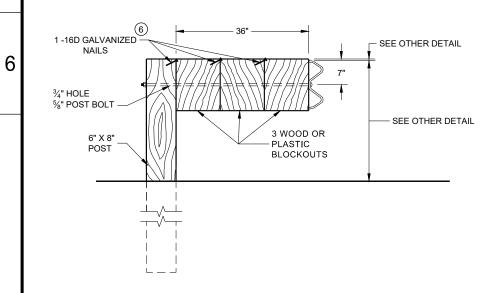
SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



#### **DETAIL FOR 16" BLOCKOUT DEPTH**

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



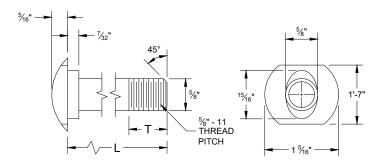
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

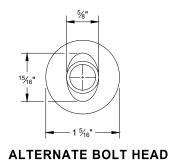
#### NOTE:

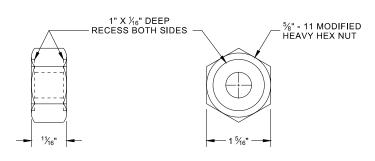
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

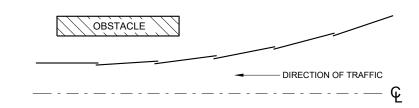
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



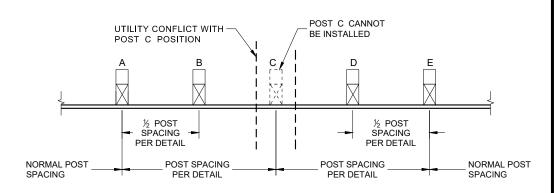


#### POST BOLT, SPLICE BOLT **AND RECESS NUT**

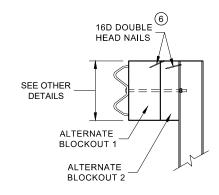
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

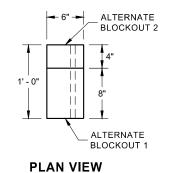


#### **PLAN VIEW BEAM LAPPING DETAIL**



#### POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

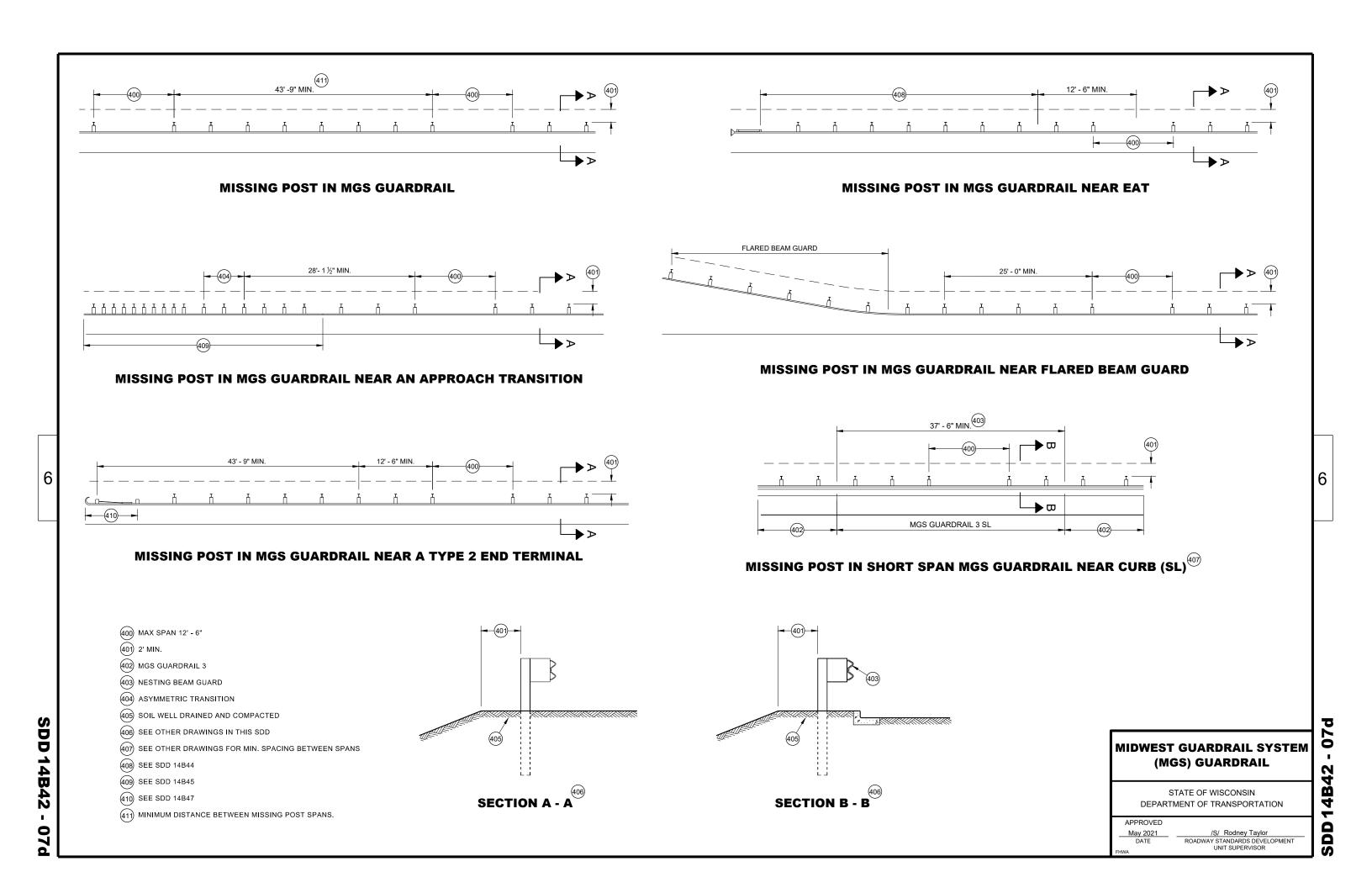
**ALTERNATE WOOD BLOCKOUT DETAIL** 

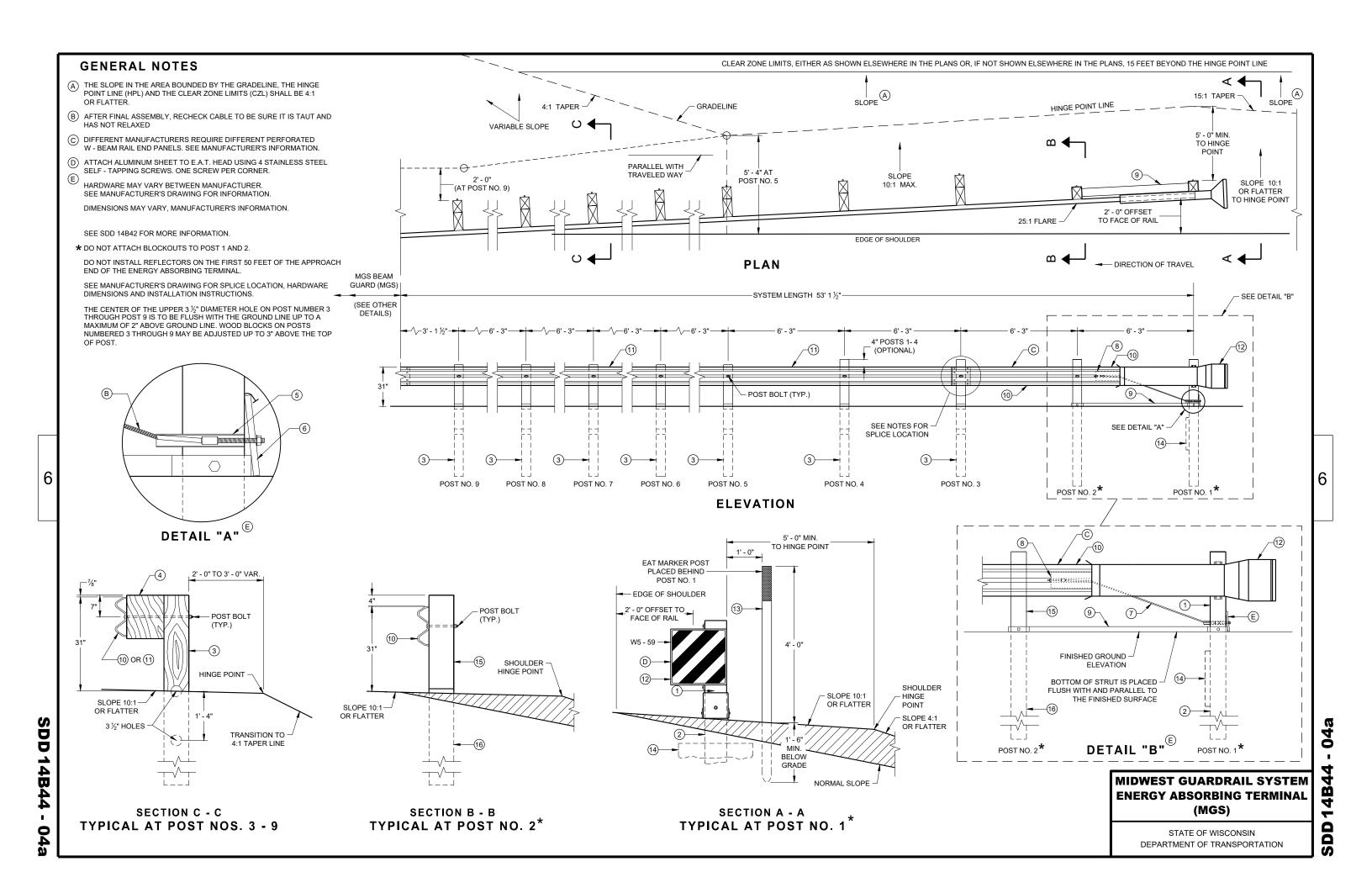
#### **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

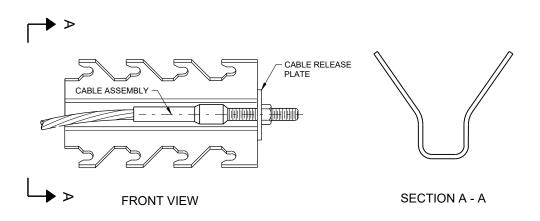
07

SD

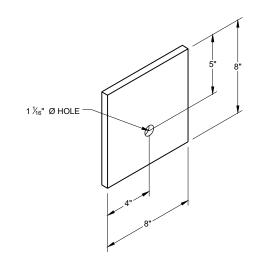
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







GENERIC ANCHOR CABLE BOX <sup>(9) (E)</sup>



BEARING PLATE

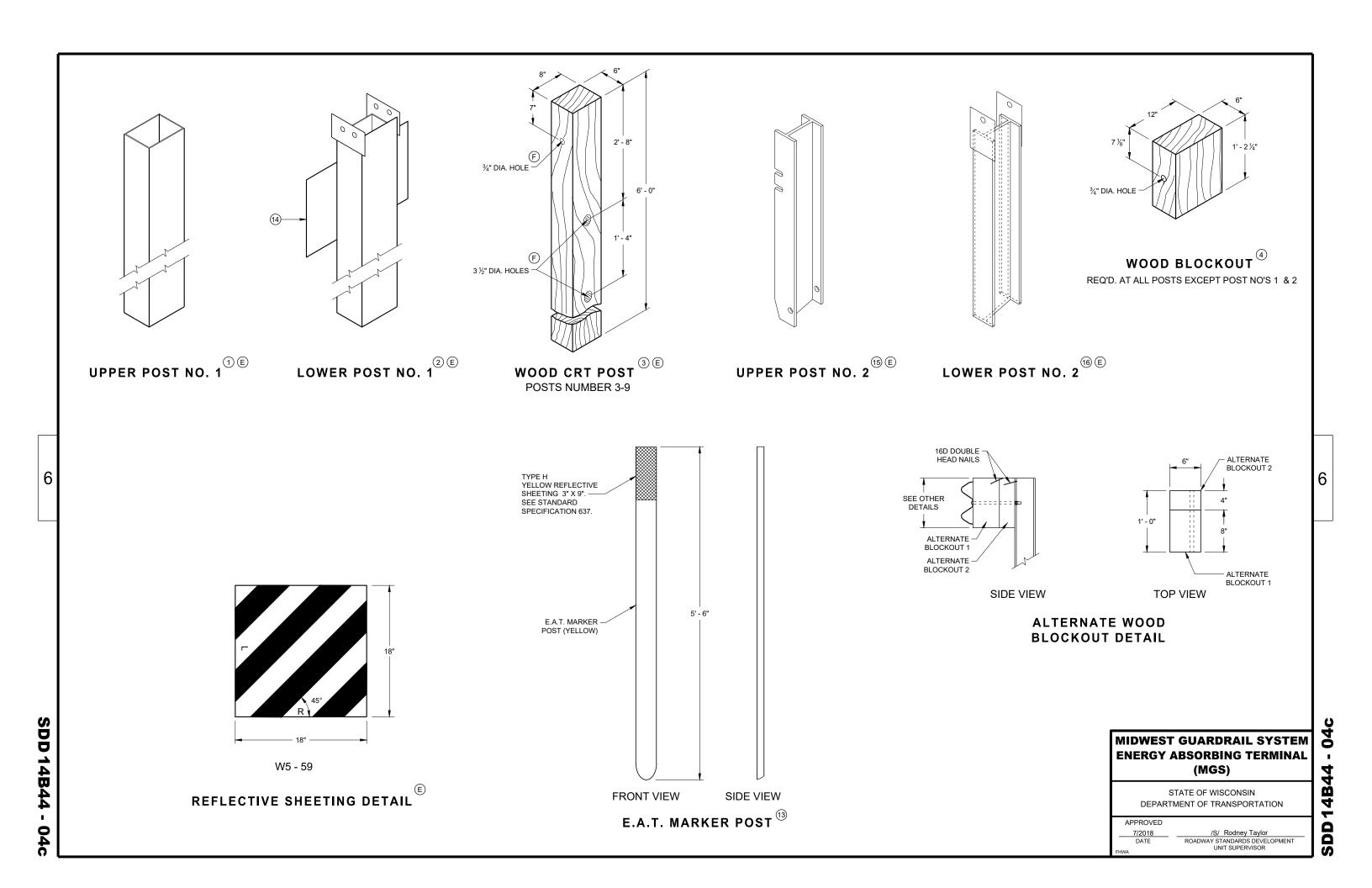
#### MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

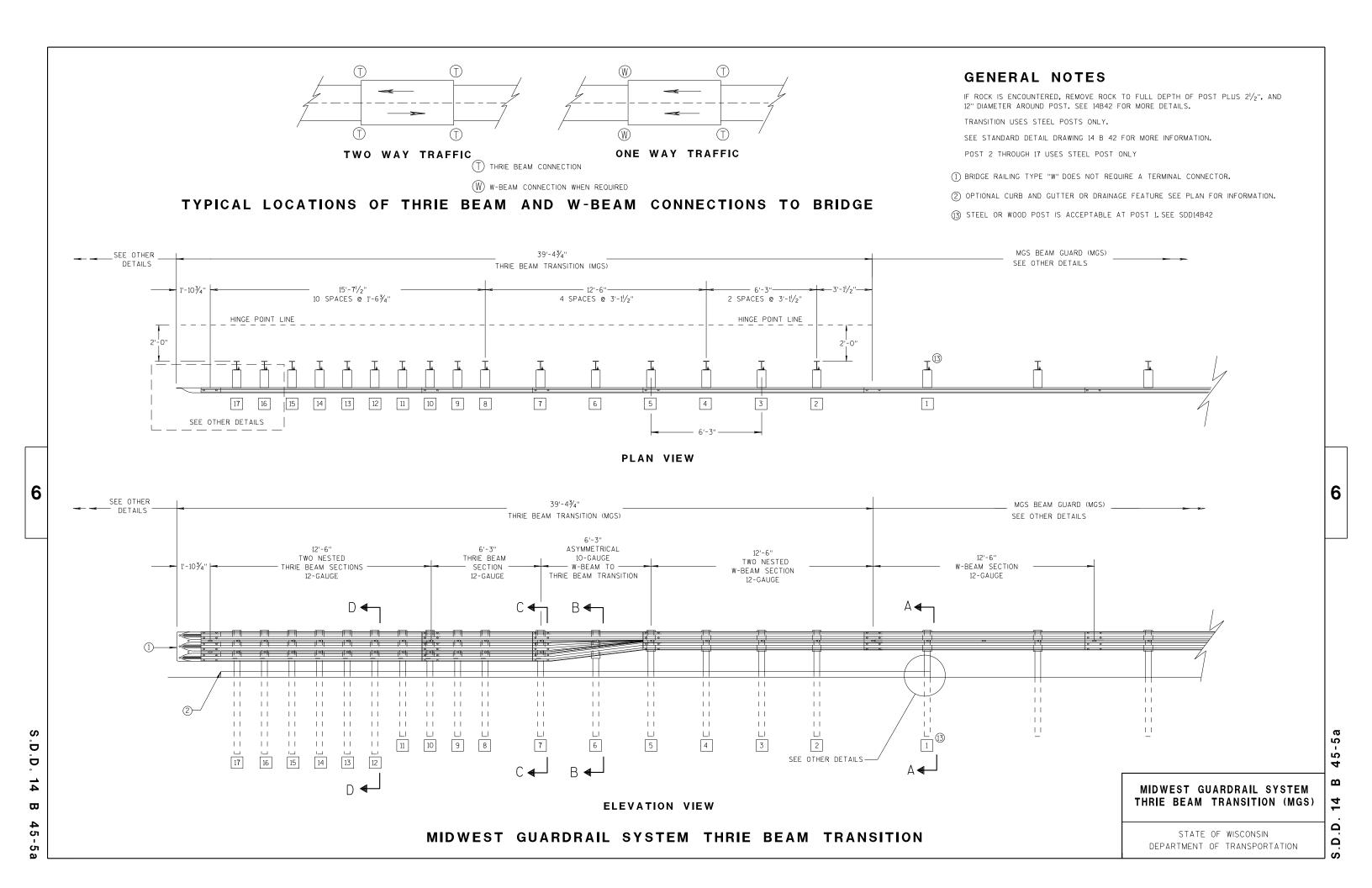
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

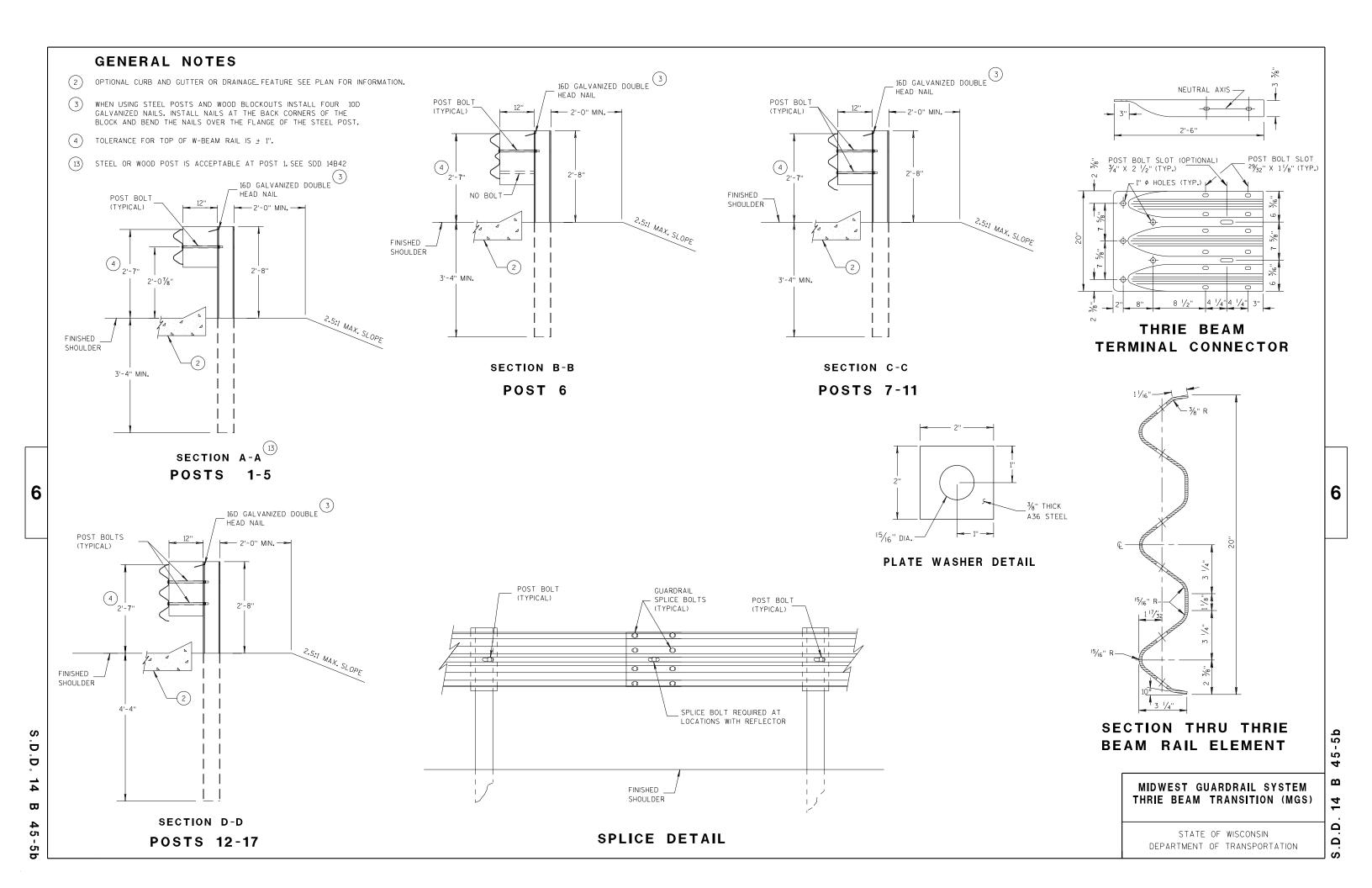
6

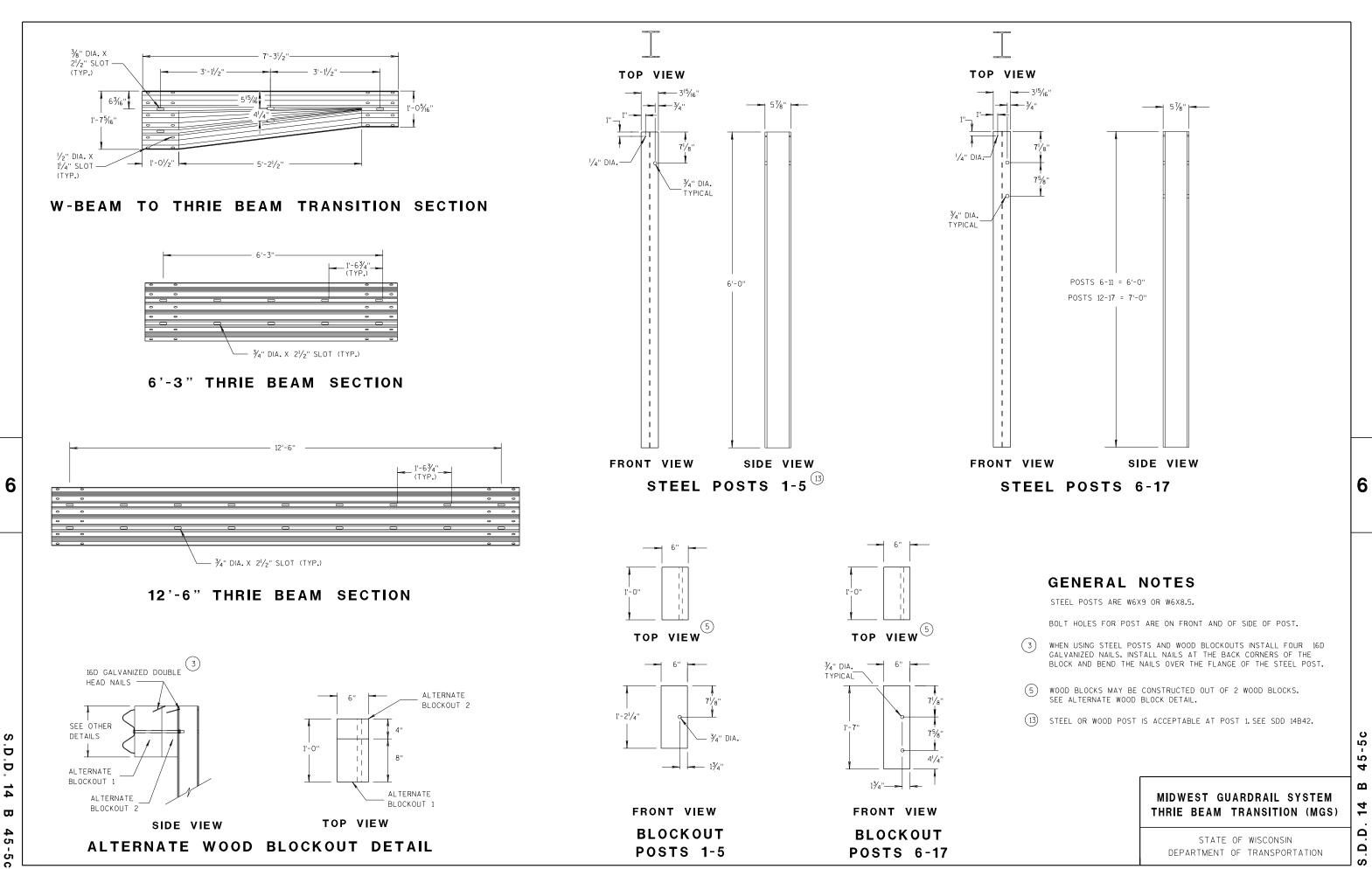
SDD 14B44

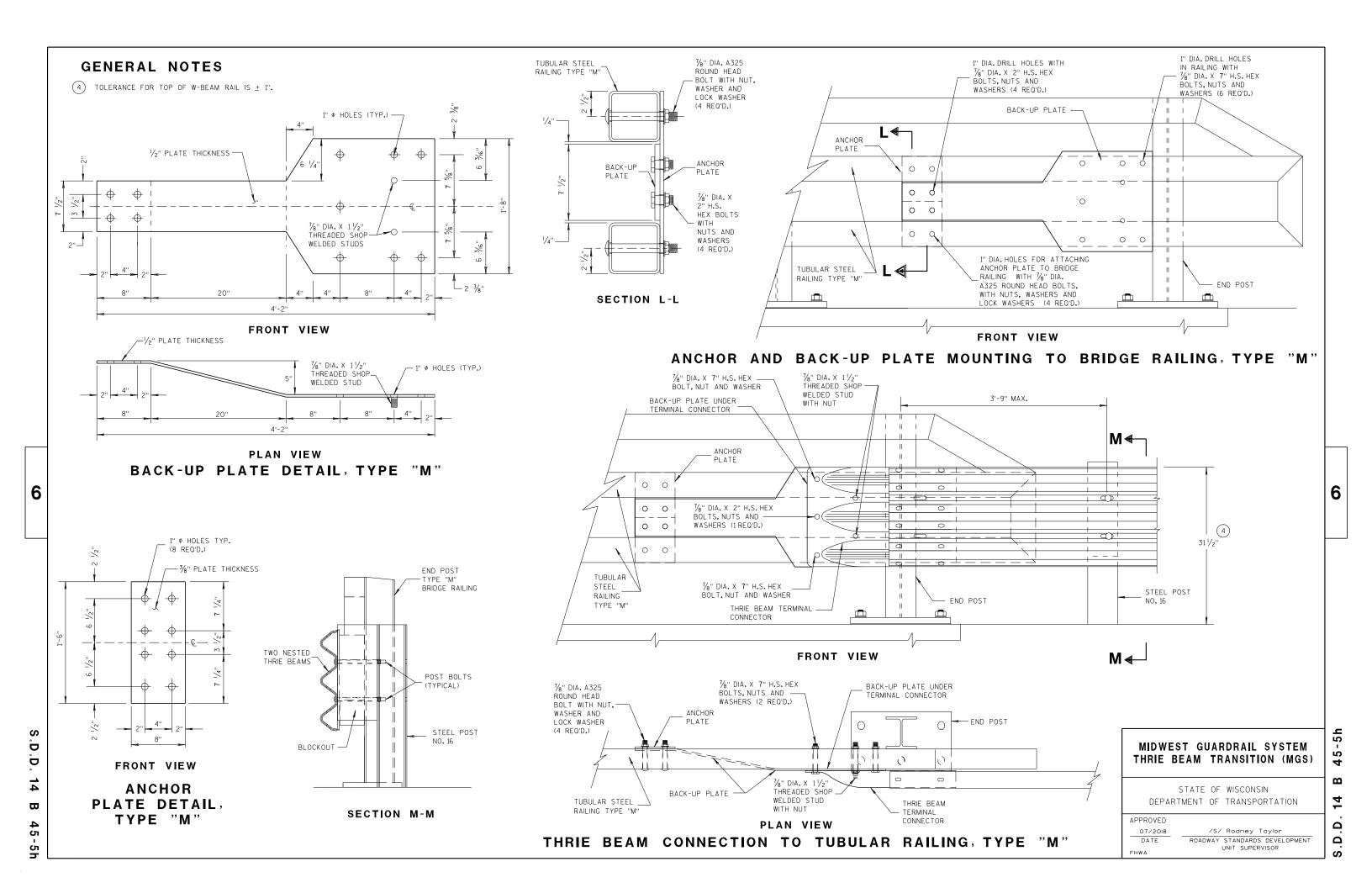
SDD 14B44

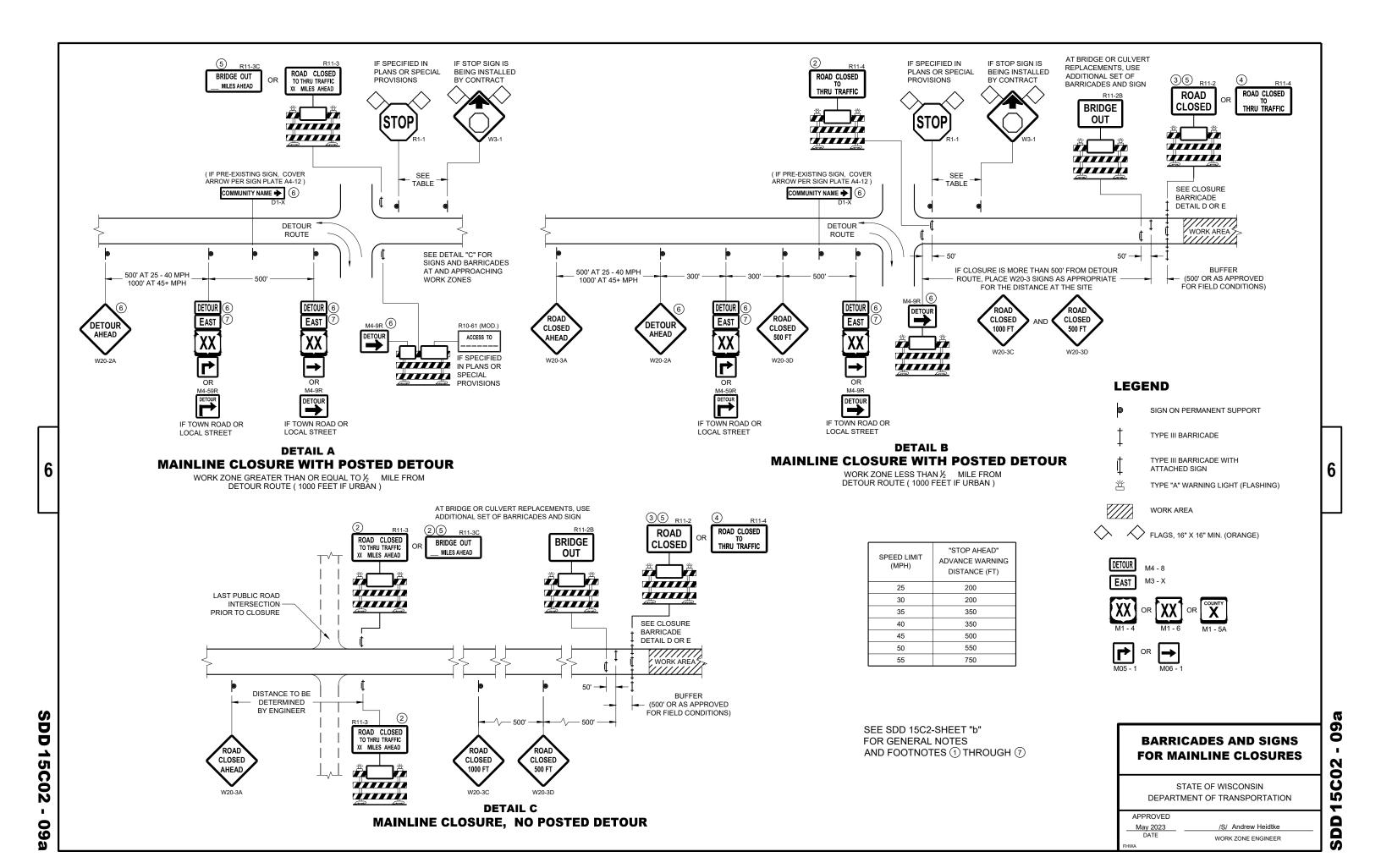


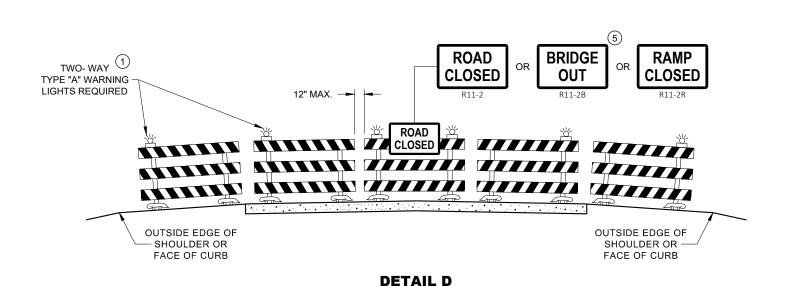






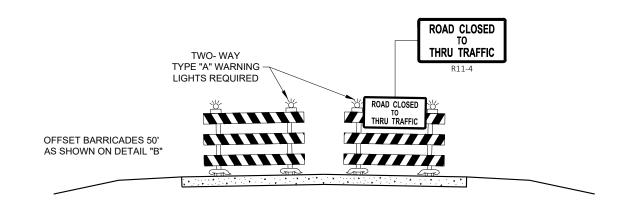






**ROAD CLOSURE BARRICADE DETAIL** 

**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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL 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 SHALL, 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" (36" X 18" 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"

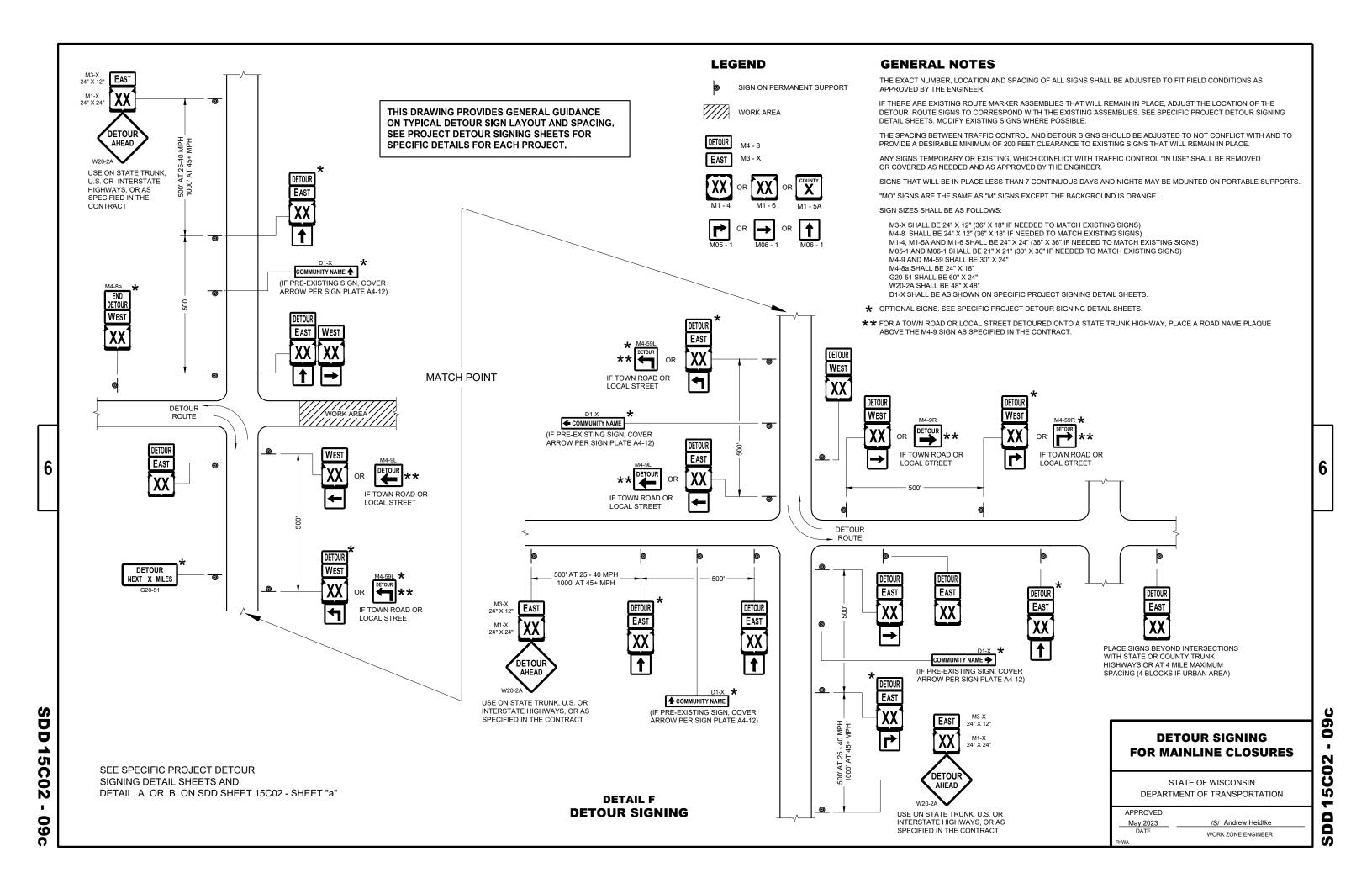
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

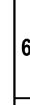
#### **BARRICADES AND SIGNS** FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** May 2023 DATE WORK ZONE ENGINEER

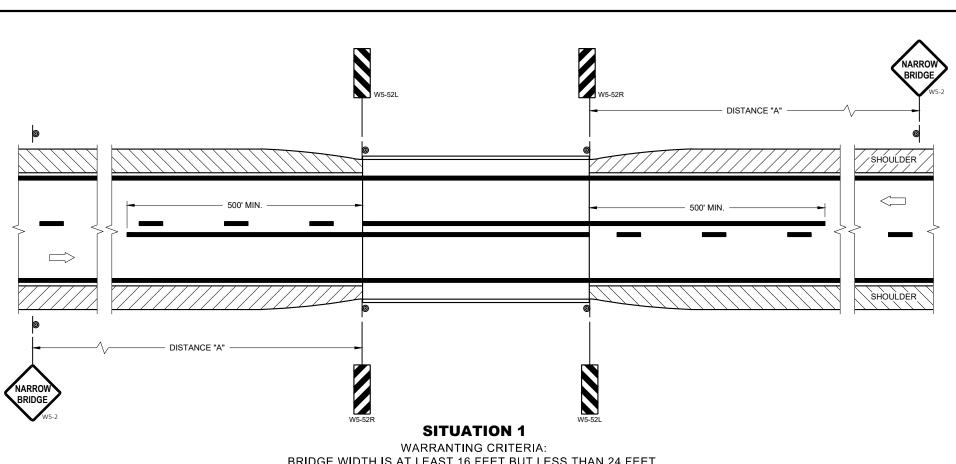
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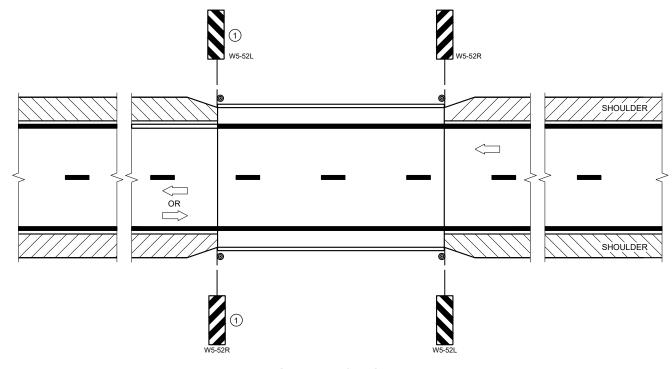


## **-90** 5

SD



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



#### **SITUATION 2**

WARRANTING CRITERIA:

15C06-12

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

#### **GENERAL NOTES**

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE 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.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

#### **LEGEND**

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

#### **DISTANCE TABLE**

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

#### **SIGNING AND MARKING FOR TWO LANE BRIDGES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED		
May 2023	/S/ Jeannie Silver	
DATE	STATE SIGNING AND MARKING	
	ENGINEER	

**GENERAL NOTES** 

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

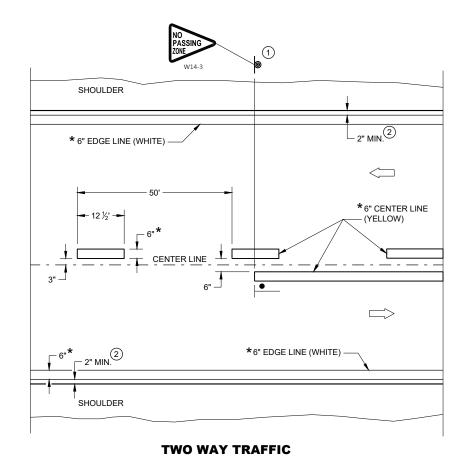
#### **LEGEND**

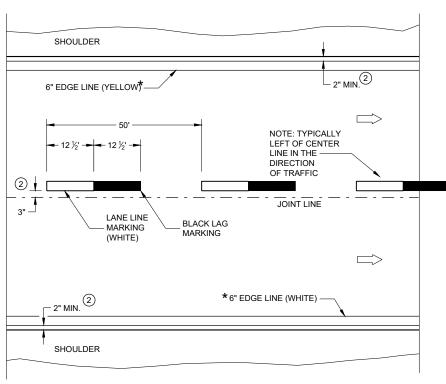
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES





**ONE WAY TRAFFIC** 

#### **PERMANENT PAVEMENT MARKING**

#### **PERMANENT LONGITUDINAL PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023

DATE /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

SDD 15C08-23a

6

C08-2

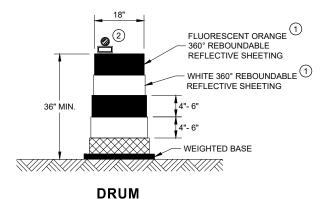
5

SD

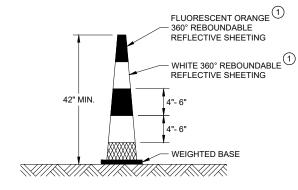
# **SDD 15C11**

### **GENERAL NOTES**

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

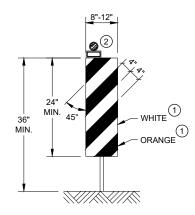


BALLAST WIDTHS RANGE FROM 24"-36"



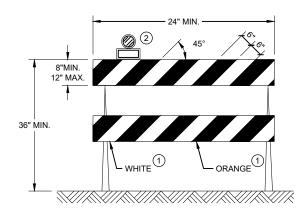
#### **42" CONE**

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



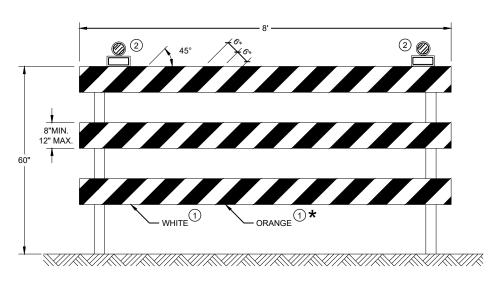
#### **VERTICAL PANEL**

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



#### **TYPE II BARRICADE**

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



#### **TYPE III BARRICADE**

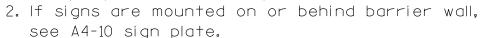
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

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

#### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	



The Double Arrow sign (W12-1D) 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" ( $\pm$ ).

- 3. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  or 6'-3"  $(\pm)$  depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{2}$ ).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The  $(\pm)$  tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.

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

\*\* Curb Flowline

D

White Edgeline Location

e Outside Edge of Gravel

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

\*\* Curb Flowline

\*\* Curb Flowline

White Edgeline Location

Outside Edge of Gravel

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where

HWY:

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.

PLOT BY: mscj9h

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

Matthew R Rauch

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

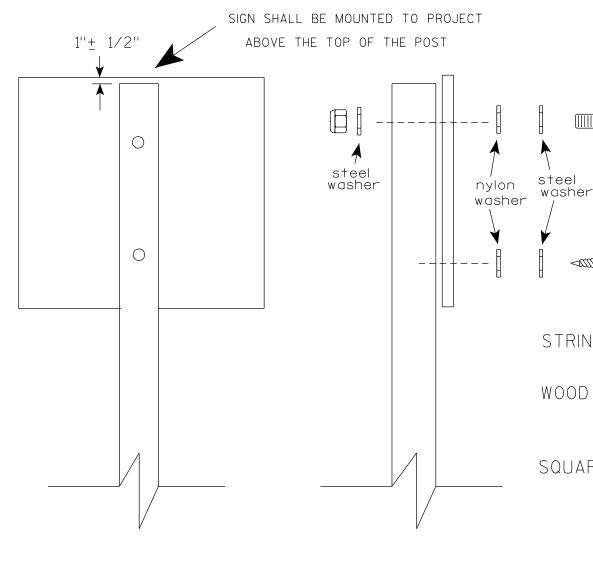
PROJECT NO:

COUNTY:

PLOT DATE: 13-MAY 2020 1:04

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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  $(4" \times 6")$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS -  $\frac{3}{8}$ " 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 3/8" I.D. X 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 Mut

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>A4-8.9</u>

PROJECT NO:

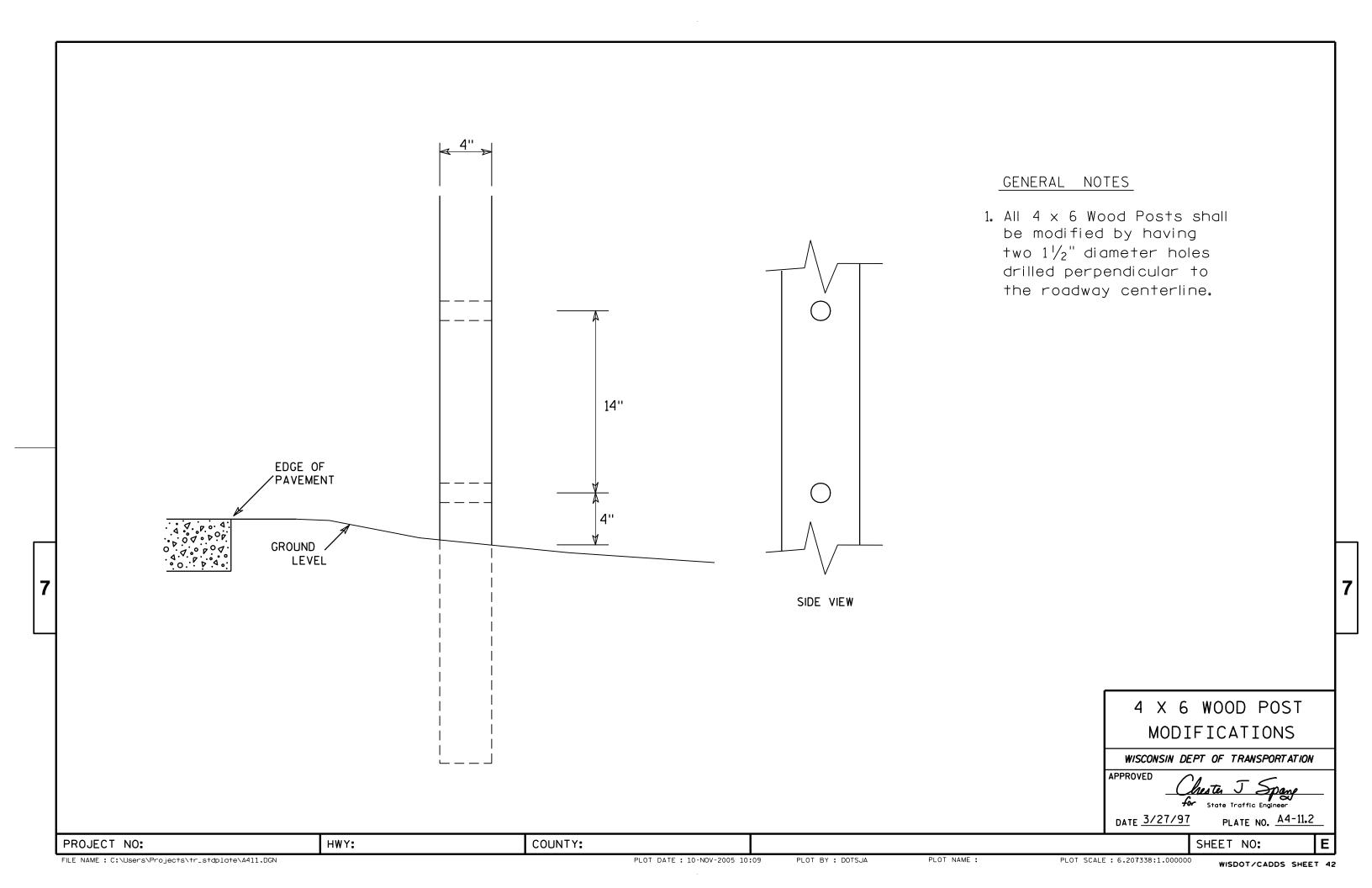
PLOT DATE: 01-APRIL-2020

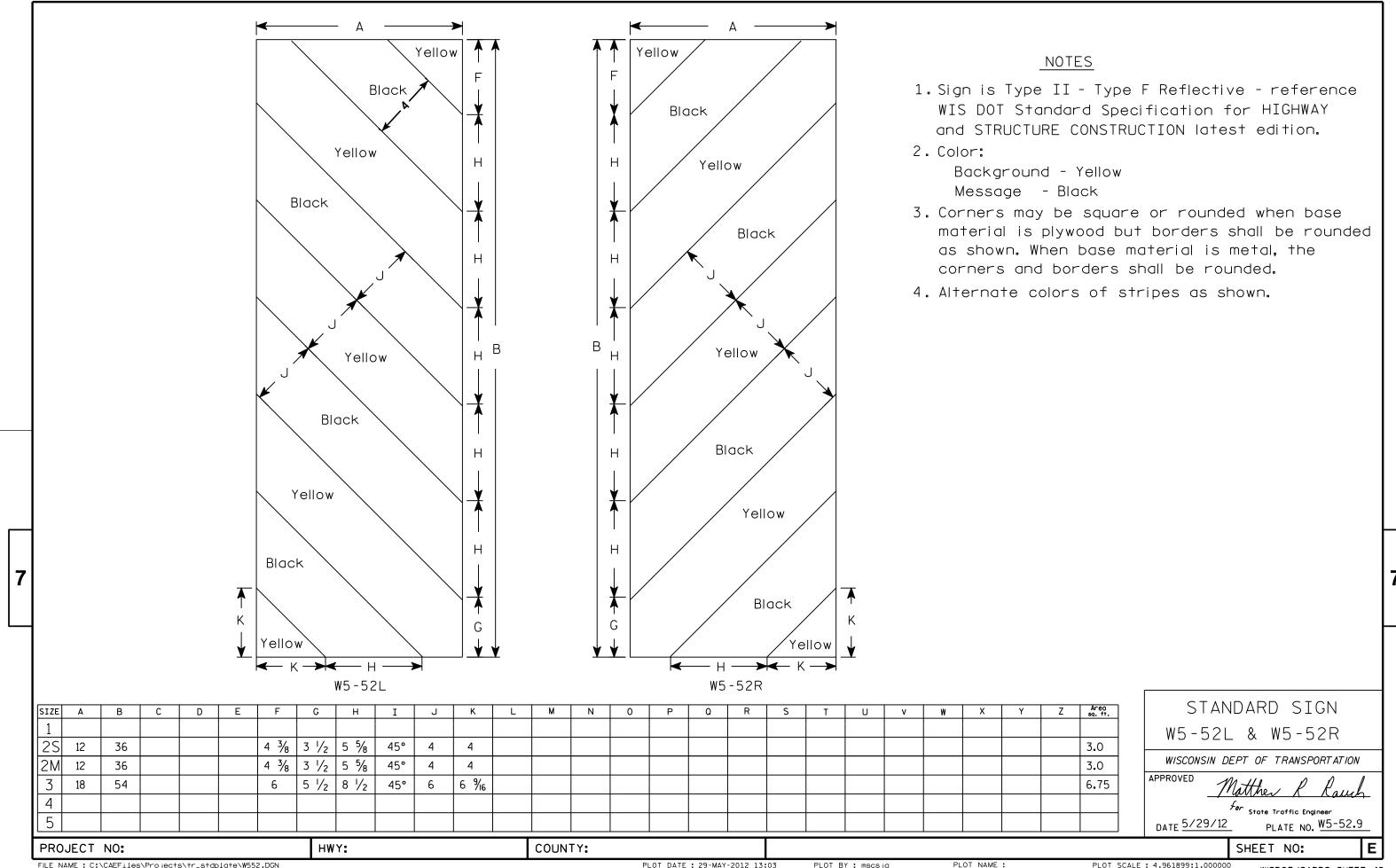
PLOT BY : dotc4c

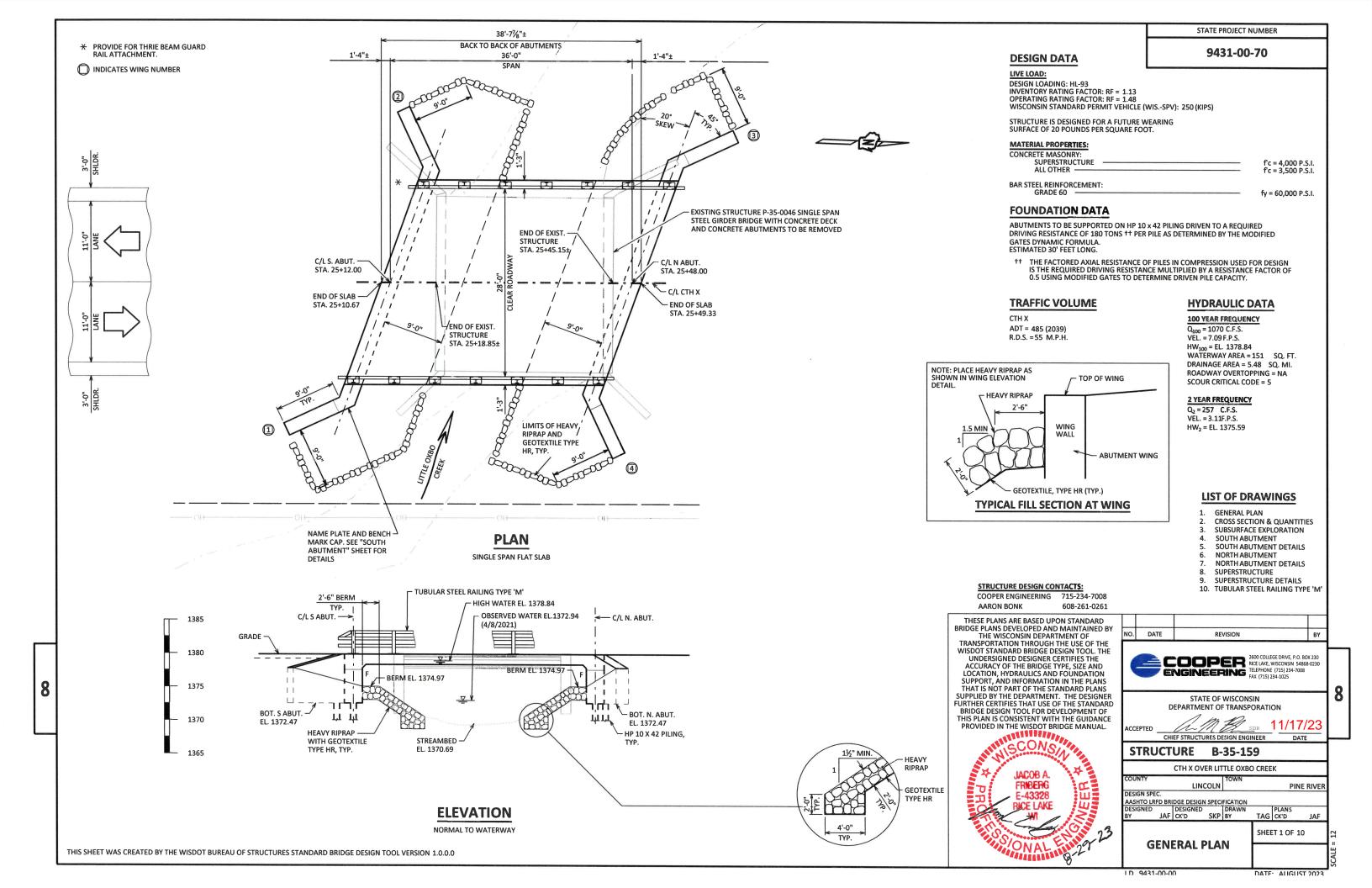
WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN







#### **GENERAL NOTES**

9431-00-70

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-35-0159" SHALL BE THE EXISTING GROUNDLINE.

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

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

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE

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 SHEET 1 AND THE ABUTMENT DETAILS.

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.

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

#### **OUT TO OUT OF SUPERSTRUCTURE** 1'-3" 1'-3" 28'-0" **CLEAR BETWEEN BARRIERS** 3'-0' 11'-0' 11'-0" 3'-0" SHLD. LANE LANE SHLD. C/L CTH X **FLASHING** TUBULAR STEEL RAILING TYPE 'M' STAINLESS POINT REFERRED TO ON -STEFI PROFILE GRADE LINE 2.0% TOP OF BERM BOTTOM OF ABUTMENT

30'-6"

### TOP OF **PAVEMENT →** A **ELEVATION** SECTION A-A PLAN SECTION B-B

#### ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT)
- = WING 2 HEIGHT AT TIP (FT)

**TOTAL ESTIMATED QUANTITIES** 

BACKFILL STRUCTURE TYPE A

RAILING TUBULAR TYPE M

RIPRAP HEAVY

FILLER

GEOTEXTILE TYPE HR

FLASHING STAINLESS STEEL

CONCRETE MASONRY BRIDGES

PROTECTIVE SURFACE TREATMENT

PILING STEEL HP 10-INCH X 42 LB

PIPE UNDERDRAIN WRAPPED 6-INCH

GEOTEXTILE TYPE DF SCHEDULE A

- = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

**BID ITEMS** 

REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS P-35-0046

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)

**EXCAVATION FOR STRUCTURES BRIDGES B-35-0159** 

BAR STEEL REINFORCEMENT HS COATED STRUCTURES

BAR STEEL REINFORCEMENT HS STRUCTURES

RUBBERIZED MEMBRANE WATERPROOFING

- $V_{CY} = V_{CF}(EF)/27$

203.0260

206.1001

210.1500

502.0100

502.3200

505.0400

505.0600

513.4061

516.0500

550.1100

606.0300

612.0406

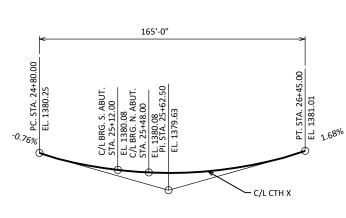
645.0111

645.0120

SPV.0090.01

#### **CROSS SECTION THRU ROADWAY**

LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)



#### **PROFILE GRADE LINE**

ABUT.

160

28

2,330

1,510

6

210

50

75

48

75

ABUT.

160

28

2,330

1,510

210

50

75

48

75

TOTALS

320

128

180

4,660

20,120

82

12

420

100

150

96

150

67

1/2", 3/4"

UNIT

EACH

**EACH** 

TON

CY

SY

LB

LB

LF

SY

LF

CY

LF

SY

SY

LF

SIZE

SUPER

72

150

17,100

82

67

# PROTECTIVE SURFACE TREATMENT LIMITS **PROTECTIVE SURFACE**

## TREATMENT DETAILS

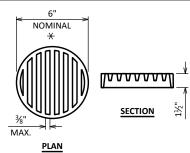
#### BRIDGE ROADWAY **SUPERSTRUCTURE PAVEMENT** - ROADWAY BACKFACE SUBSURFACE PAY LIMITS OF BACKFILL 🗘 BACKFILL STRUCTURE TYPE A "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH

#### **TYPICAL SECTION THRU ABUTMENT**

- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE ATTACH RODENT SHIFLD AT ENDS OF PIPE UNDERDRAIN

#### **BENCH MARK**

NO.	STATION	DESCRIPTION	ELEV.
1	23+17.03	SPIKE IN POWER POLE AT 34.93' RT	1379.48
2	27+13.07	SPIKE IN POWER POLE AT 34.84' RT	1382.85

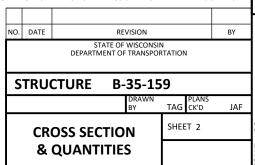


#### **RODENT SHIELD DETAIL**

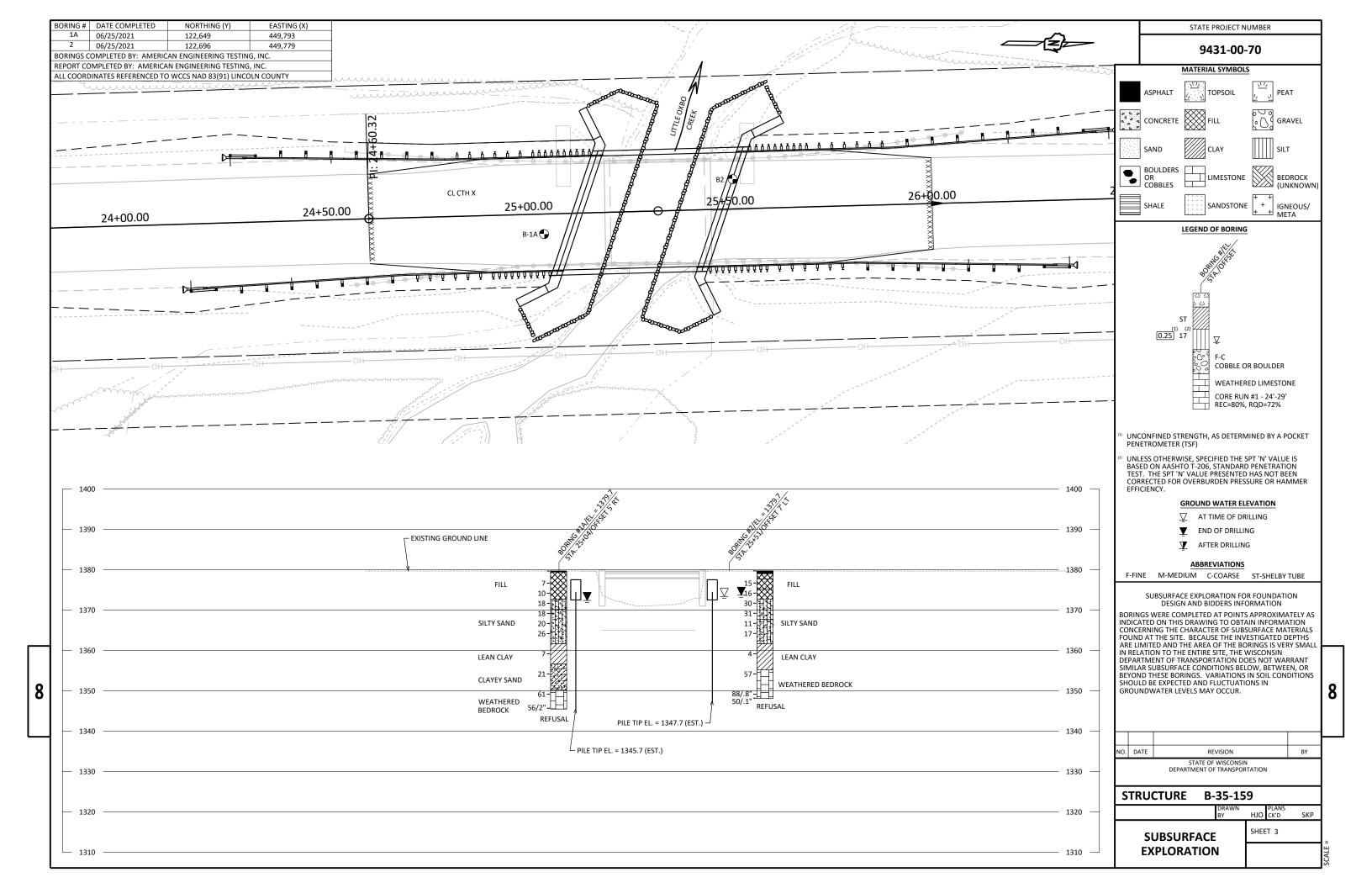
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

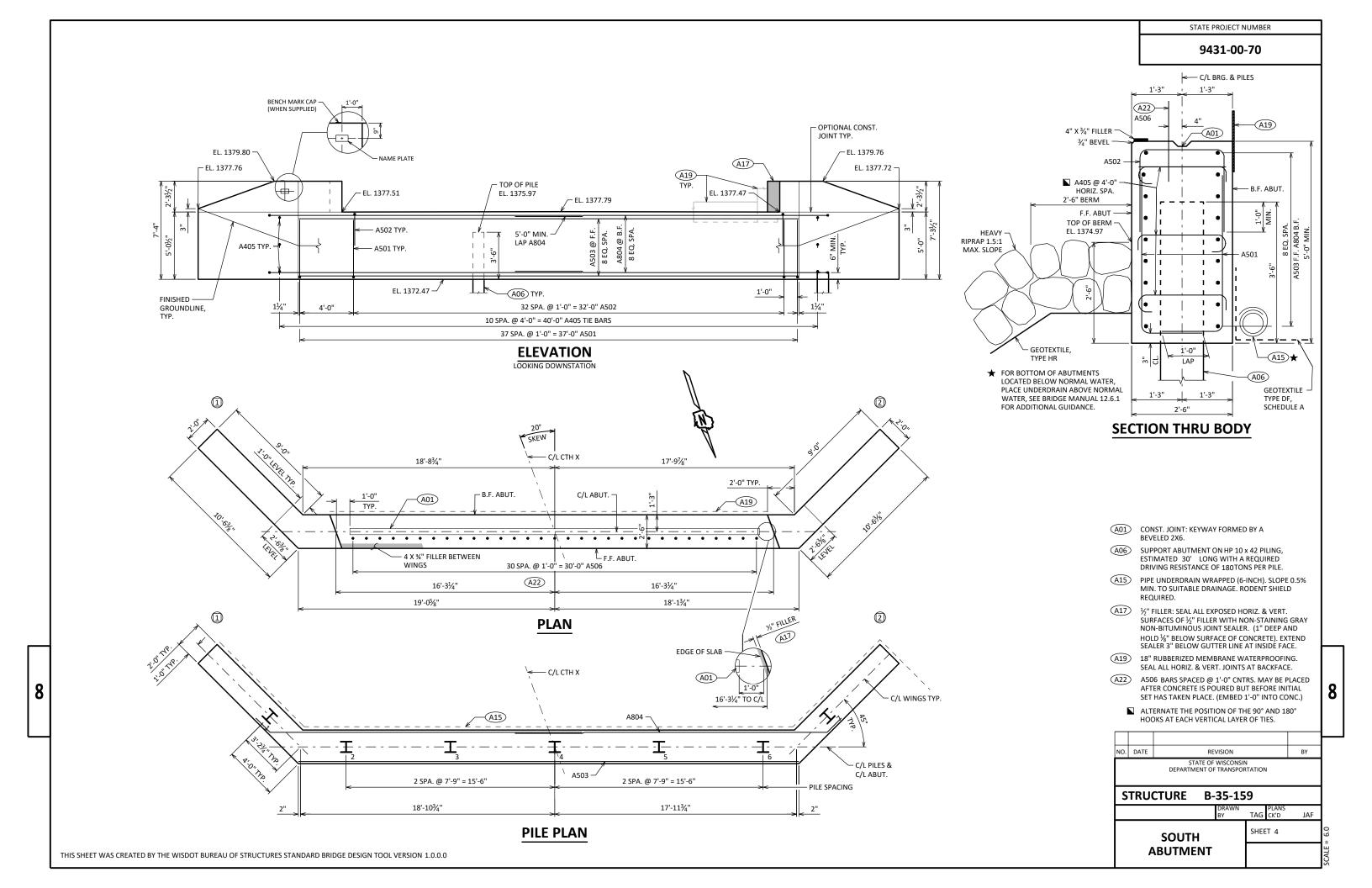
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

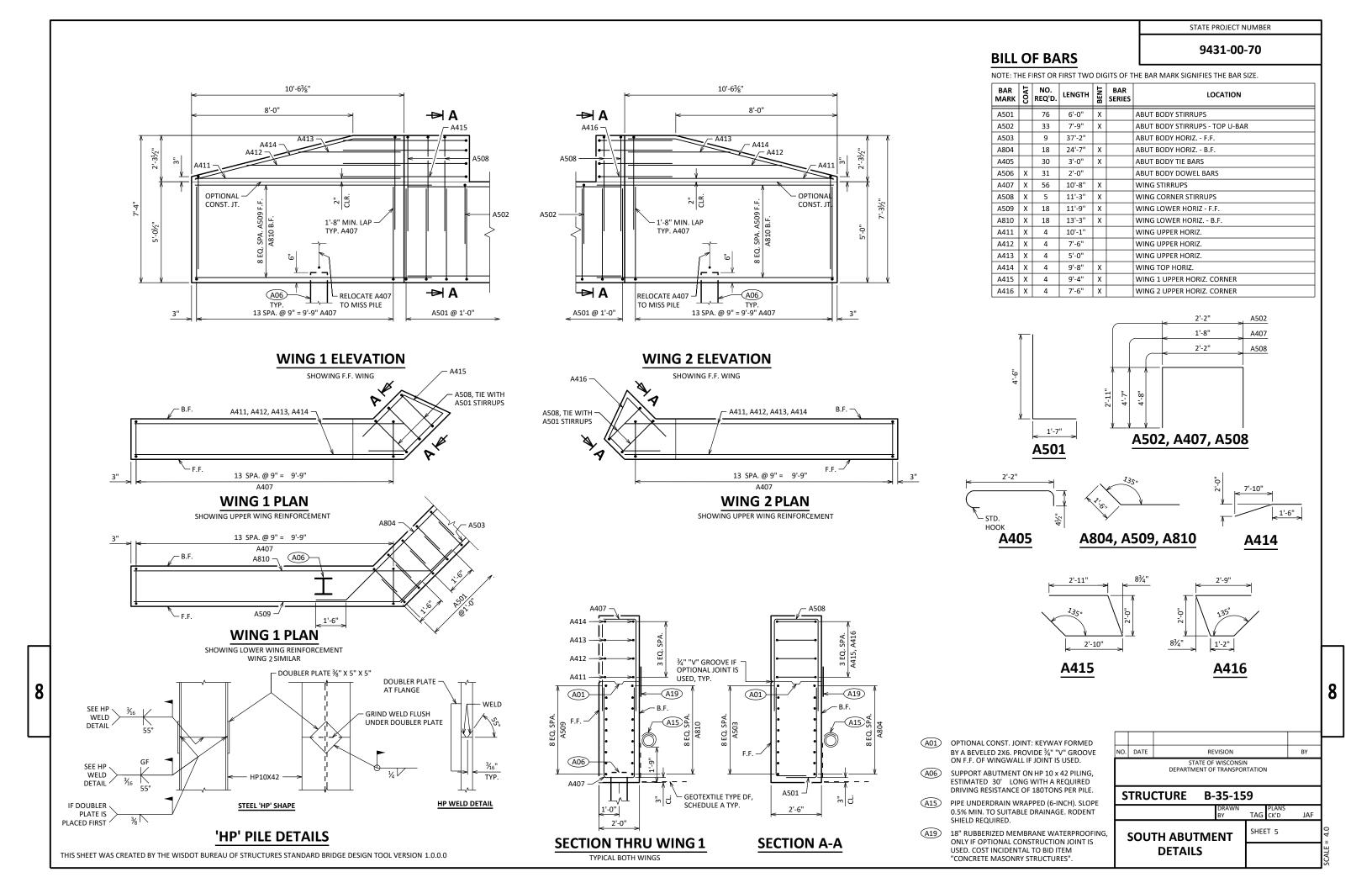
THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COLIPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

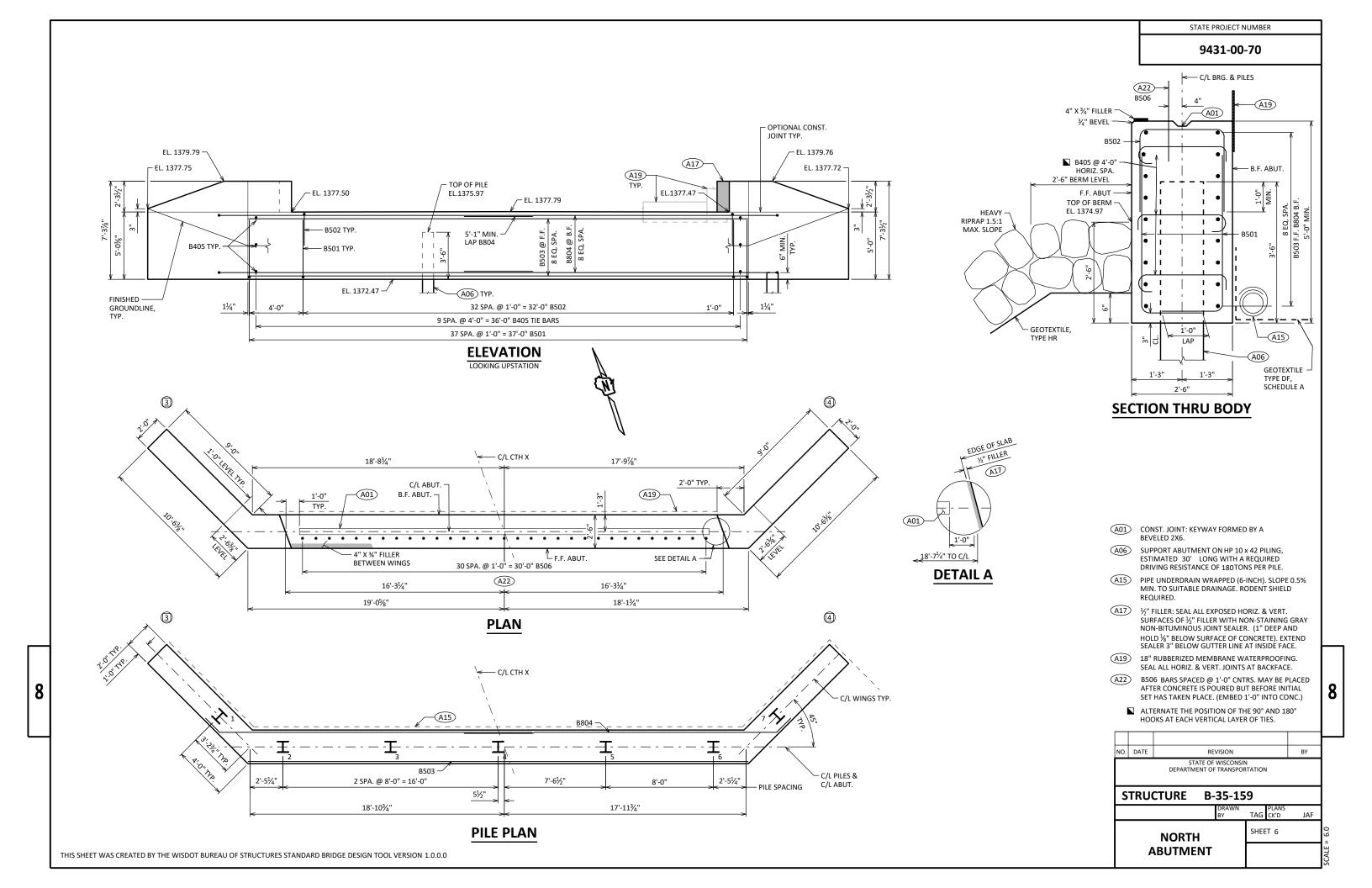


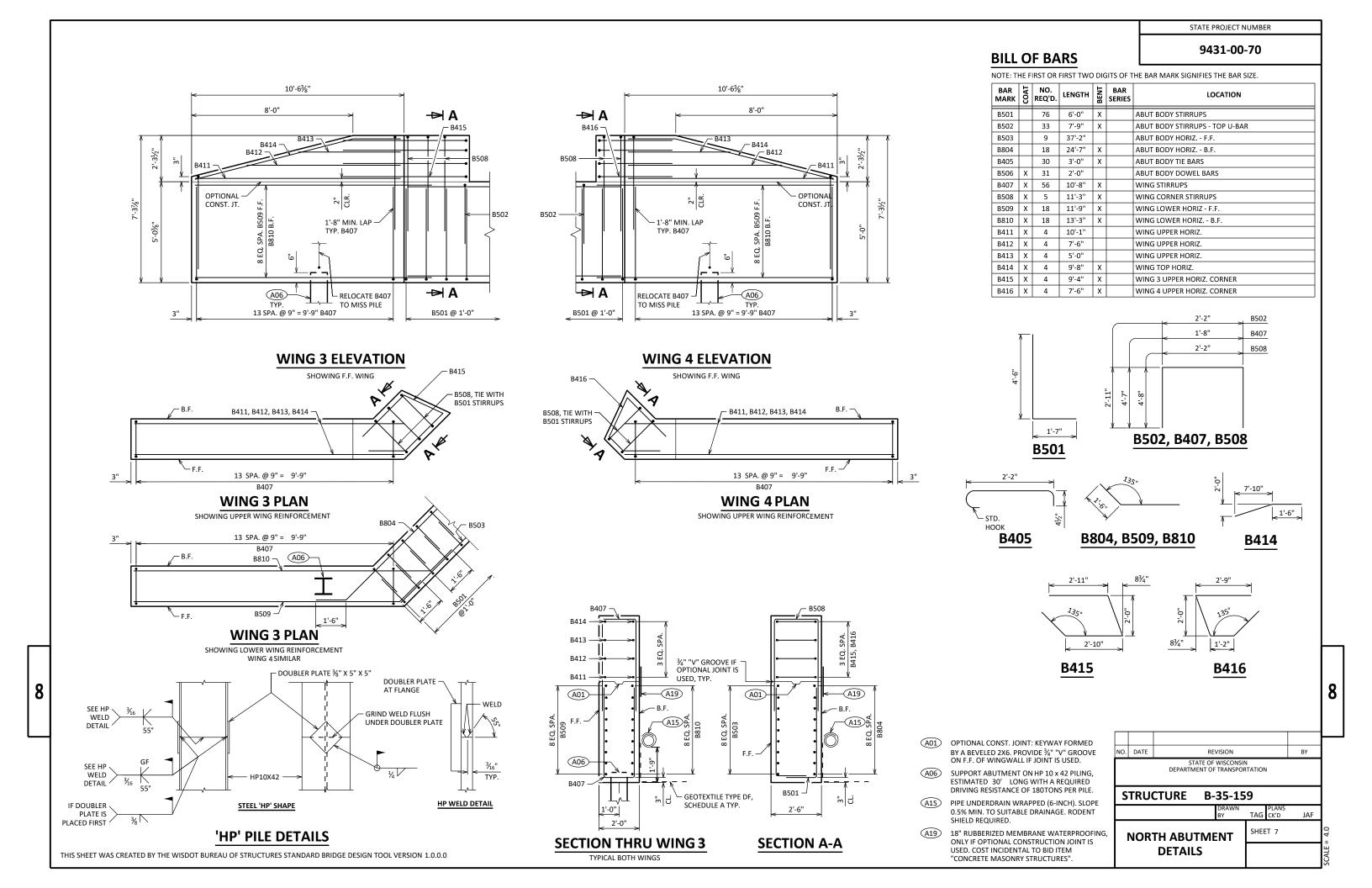
**NON-BID ITEMS** 

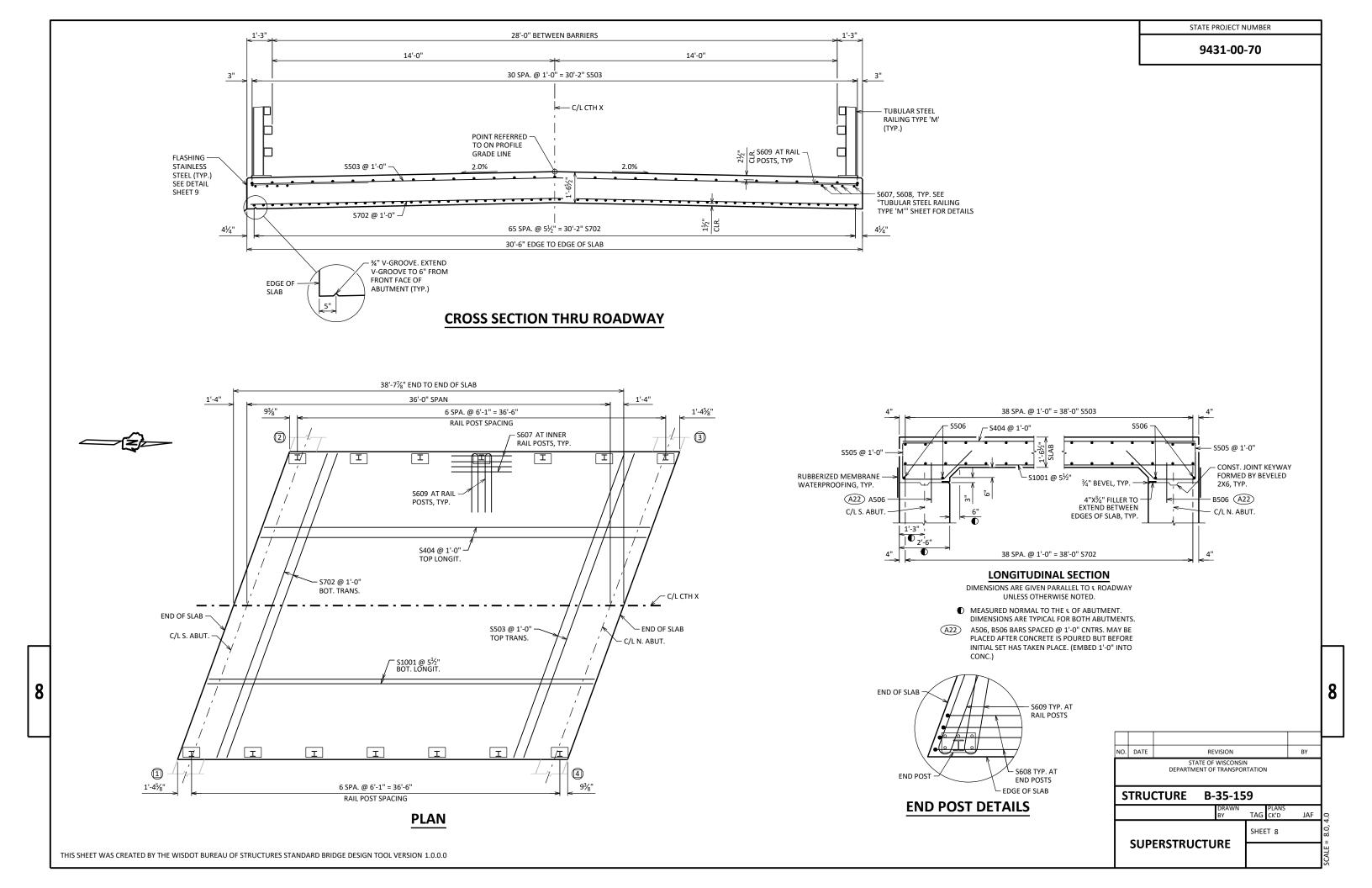












2'-1" **S505** 

- STD

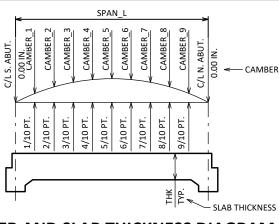
**S609** 

**S608** 



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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S1001	Х	66	38'-3"			SLAB BOTTOM LONGITUDINAL
S702	Х	39	32'-1"			SLAB BOTTOM TRANSVERSE
S503	Х	39	32'-1"			SLAB TOP TRANSVERSE
S404	Х	31	38'-3"			SLAB TOP LONGITUDINAL
S505	Х	62	7'-3"	Х		ABUTMENT DIAPHRAGM STIRRUPS
S506	Х	4	32'-1"			ABUTMENT DIAPHRAGM LONGITUDINAL
S607	Х	40	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS
S609	Х	28	12'-0"	Х		SLAB TOP HOOKS UNDER RAIL POSTS



#### **CAMBER AND SLAB THICKNESS DIAGRAM**

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER

LESS

PLUS

#### FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION. TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE: TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) TOP OF SLAB FALSEWORK ELEVATION

#### **TOP OF SLAB ELEVATIONS**

LOCATION	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. N. ABUT.
W. EDGE OF DECK	1379.76	1379.76	1379.75	1379.75	1379.75	1379.75	1379.75	1379.76	1379.77	1379.78	1379.79
CROWN OR R/L	1380.08	1380.07	1380.07	1380.06	1380.06	1380.06	1380.06	180.06	1380.06	1380.07	1380.08
E. EDGE OF DECK	1379.80	1379.78	1379.77	1379.76	1379.76	1379.75	1379.75	1379.75	1379.75	1379.75	1379.76

#### **DECK FLASHING NOTES**

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, AND  $^3\!\!1_6$ " CONCRETE SCREWS AND CLEANING THE EDGE OF THE DECK PRIOR TO ATTACHMENT OF THE FLASHING

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

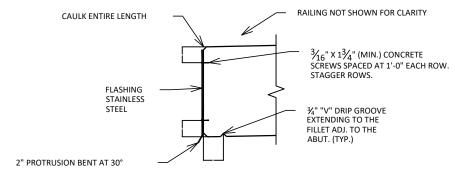
EXTEND FLASHING TO B.F. ABUTMENT DIAPHRAGM.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF DECK/SLAB SURFACE.

THE FLASHING IS TO BE CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE LENGTH.

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WITH  $\frac{3}{16}$ " X 2" (MIN.) CONCRETE SCREWS.

CAULK SHALL BE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER.



#### **EDGE OF DECK FLASHING DETAIL**

#### **SURVEY TOP OF SLAB ELEVATIONS**

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT
W. GUTTER			
CROWN OR R/L			
E. GUTTER			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, THE C/L OF PIERS 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.

#### **NOTES**

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

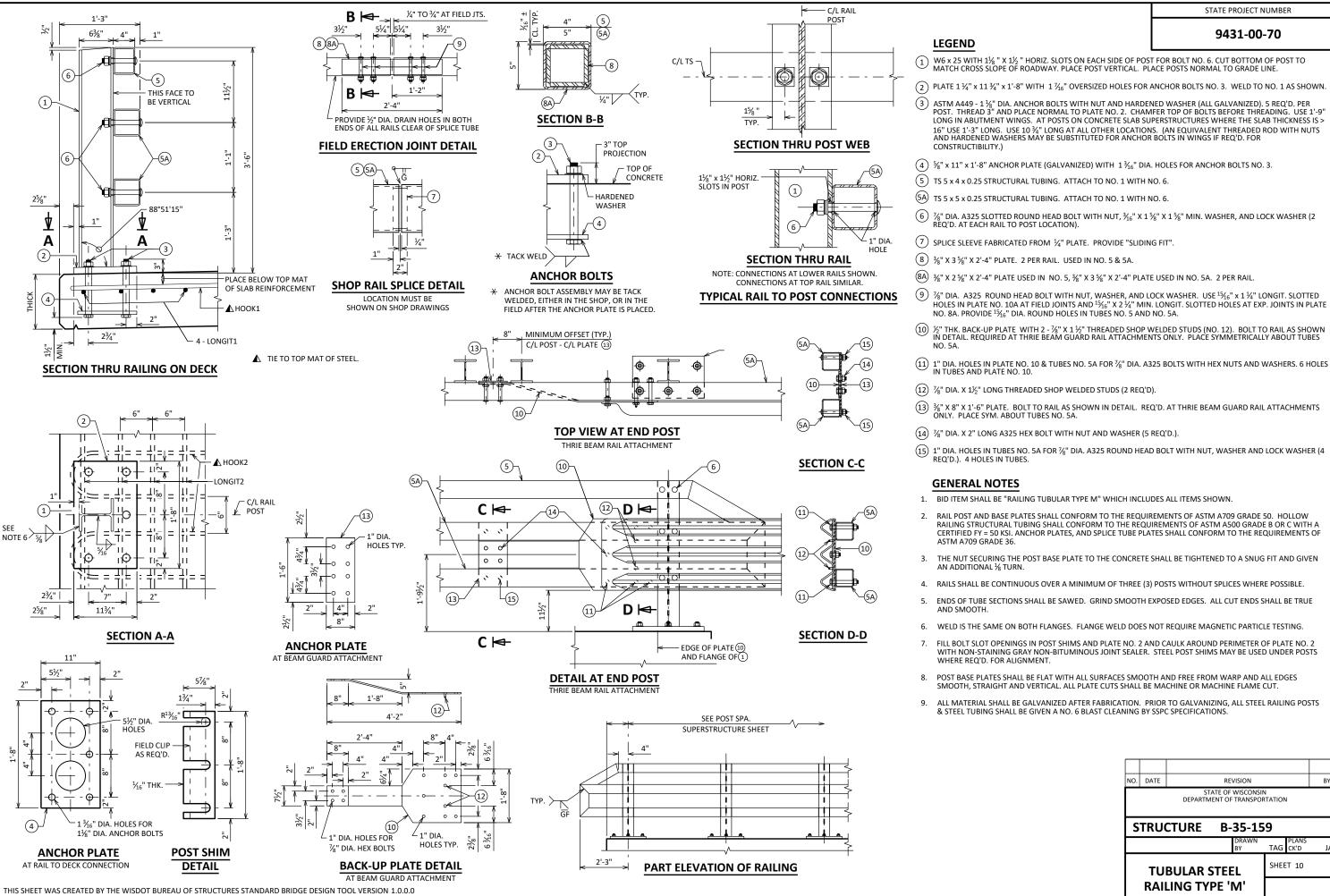
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

								ı			
NO.	DATE	BY									
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
S	STRUCTURE B-35-159										
				DRAWN BY	TAG	PLANS CK'D	JAF				
	SUP	ERSTRUC	SHEET 9			= 1.00					
		DETAILS				SCALE:					

8

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0



9431-00-70

- (3) ASTM A449 1 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10  $\frac{3}{4}$ " LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR

- 9 %" Dia. A325 Round Head Bolt with nut, washer, and lock washer. Use  $^{1}\%_{6}$ " x 1 %" longit. Slotted Holes in Plate No. 10a at field joints and  $^{1}\%_{6}$ " x 2 %" Min. Longit. Slotted Holes at exp. Joints in Plate
- $^{(1)}$  ½" THK. BACK-UP PLATE WITH 2  $^{\prime}$ 2" X 1 ½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES

- 15 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4
- RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW
  RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A
  CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS
- SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-35-159 SHEET 10 **TUBULAR STEEL RAILING TYPE 'M'** 

стн х

		AREA (SF)			INC	REMENTAL VOL (CY) (UNADJUS	STED)	CUMULATIVE VOL (CY)		
STATION	DISTANCE	сит	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL	CUT 1.00 NOTE 1	EXPANDED FILL 1.25 NOTE 4	MASS ORDINAT
22+96	0	4.50	0.00	1.22	0	0	0	0	0	0
23+16	20	9.34	0.00	3.97	5	0	2	5	3	3
23+50	34	9.59	0.00	7.72	12	0	7	17	11	6
23+91	41	9.64	0.00	15.37	15	0	17	32	33	-1
24+16	25	10.22	0.00	16.70	9	0	15	41	51	-10
24+26	11	10.30	0.00	13.50	4	0	6	45	59	-14
24+41	14	11.05	0.00	8.01	6	0	6	51	66	-15
24+51	11	10.72	0.00	5.62	4	0	3	55	70	-15
24+60	9	31.26	3.69	5.46	7	1	2	62	73	-12
24+76	16	31.20	3.80	4.71	19	2	3	81	76	2
24+96	20	29.17	4.15	9.39	22	3	5	103	83	15
25+13	17	24.08	8.34	18.98	17	4	9	120	95	15
BRIDGE								120	95	15
25+47	0	24.94	8.34	27.30	0	0	0	120	95	15
25+64	17	27.83	4.04	5.74	16	4	10	136	107	15
25+84	20	31.44	4.24	3.60	22	3	3	158	111	30
26+00	16	34.26	3.77	5.87	20	2	3	178	115	44
26+09	9	11.75	0.00	2.55	7	1	1	185	116	49
26+19	11	11.58	0.00	6.37	5	0	2	190	119	52
26+34	14	11.18	0.00	8.20	6	0	4	196	124	53
26+44	11	11.33	0.00	9.60	4	0	4	200	129	52
26+69	25	14.49	0.00	7.13	12	0	8	212	139	54
27+00	31	5.20	0.00	3.48	11	0	6	223	146	57
27+38	38	5.29	0.00	1.17	7	0	3	230	150	60
27+94	55	0.00	0.00	0.00	5	0	1	235	150	65
				COLUMN TOTAL	235	20	120			

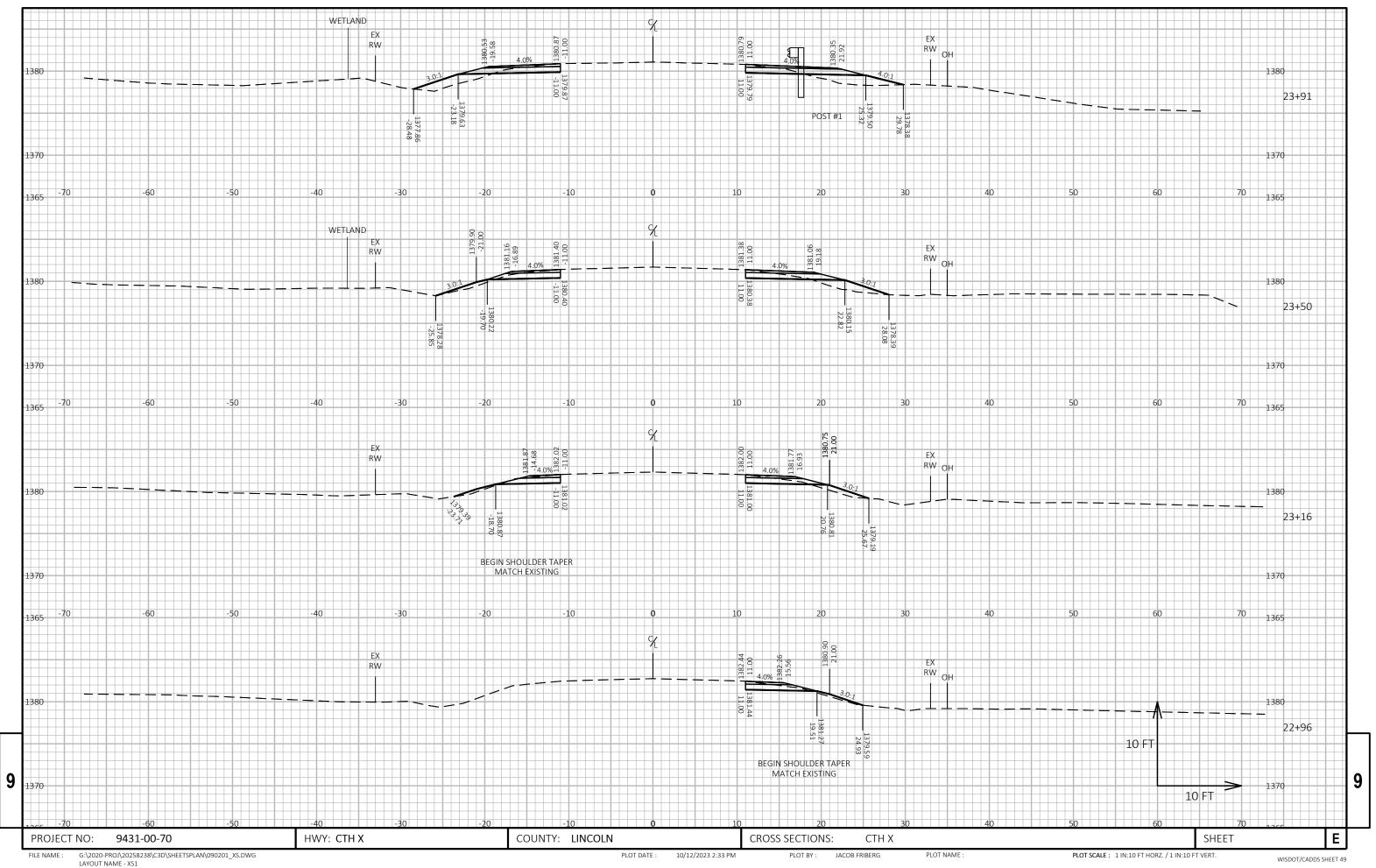
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED FILL	EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR
5 - MASS ORDINATE	PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL. MINUS INDICATES A SHORTAGE OF MATERIAL.

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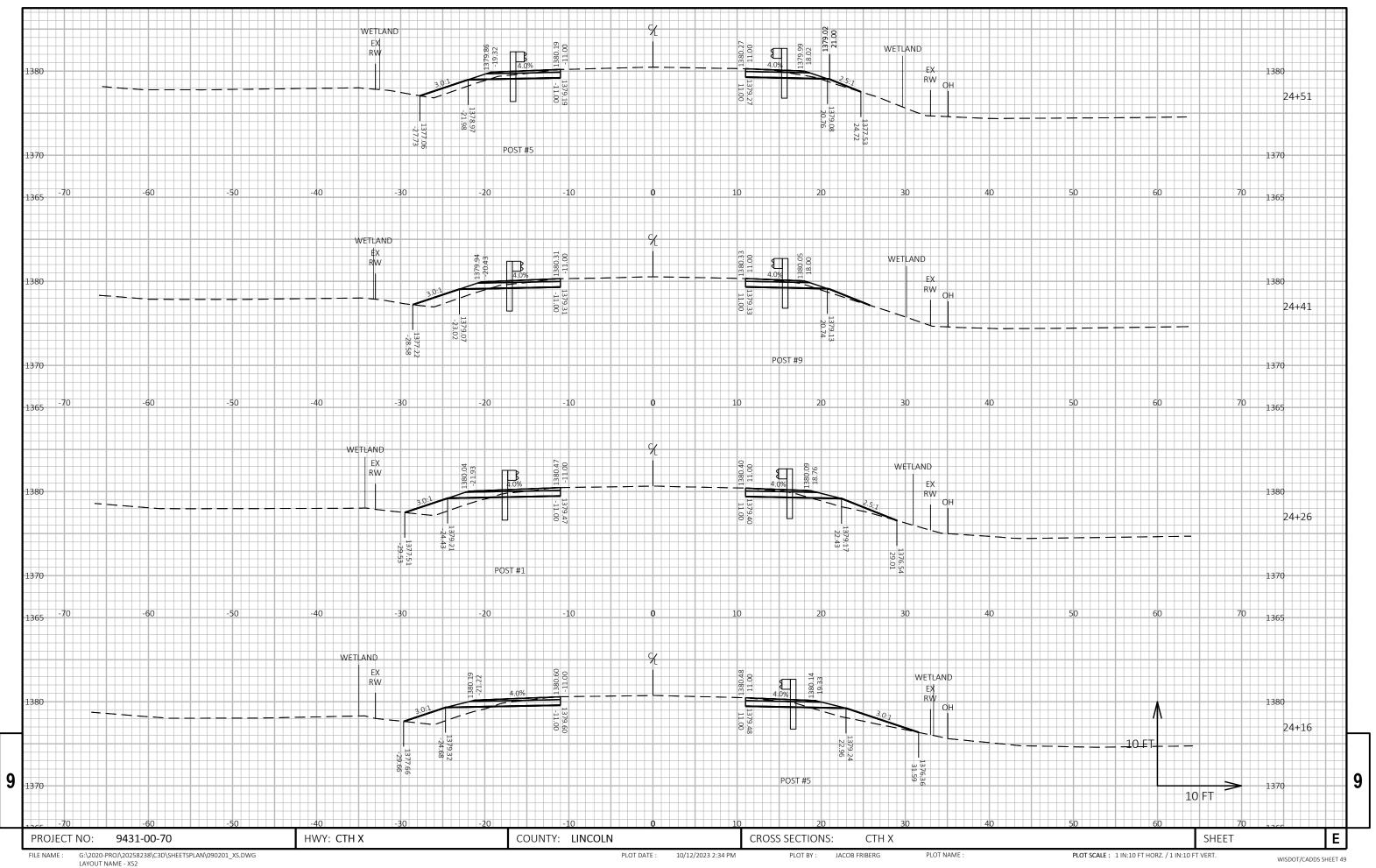
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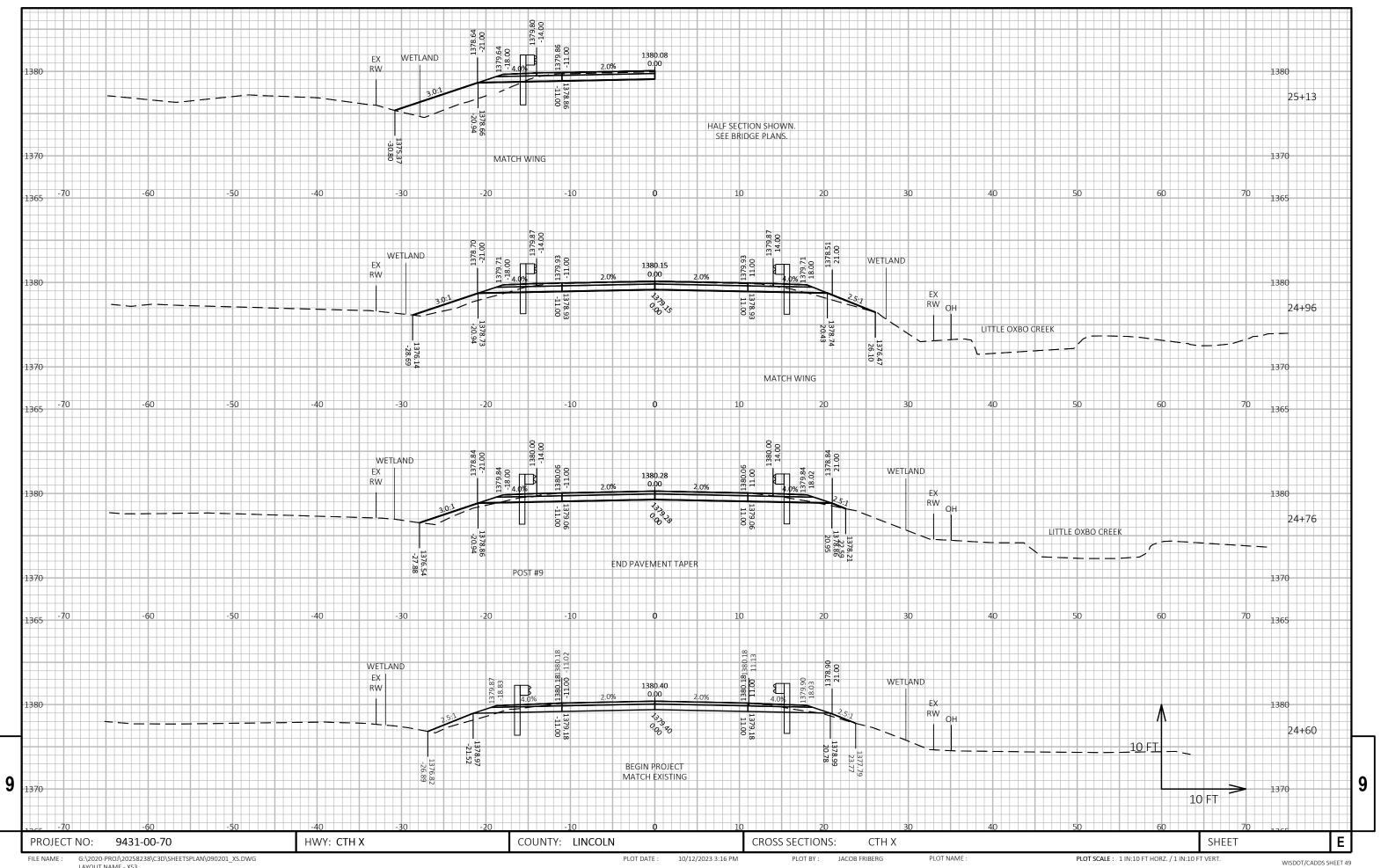
PROJECT NO: 9431-00-70 HWY: CTH X COUNTY: LINCOLN EARTHWORK DATA SHEET **E** 

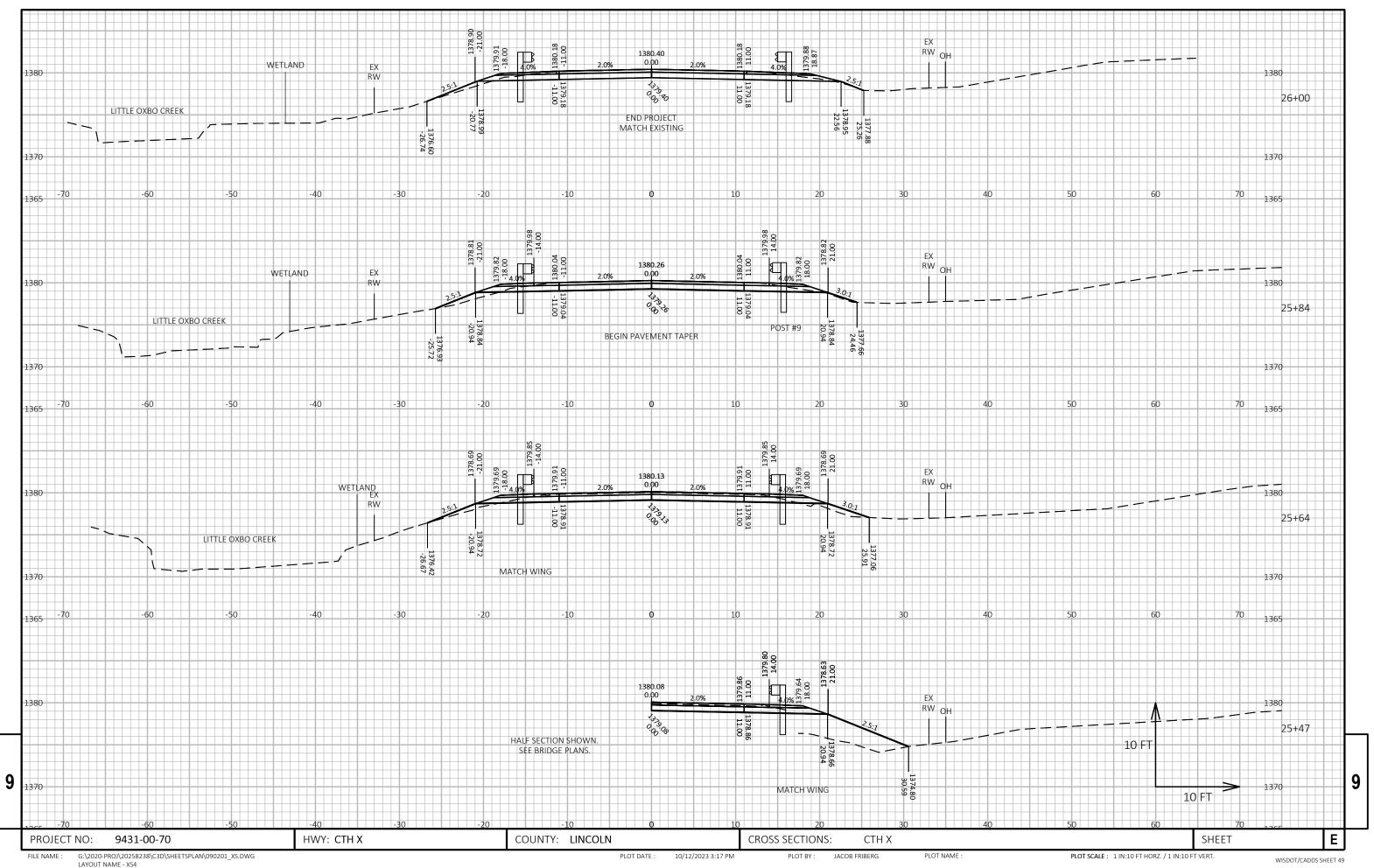
FILE NAME: G:\2020-PROI\20258238\C3D\SHEETSPLAN\\090101\_EW.DWG PLOT DATE: 10/10/2023 8:24 AM PLOT BY: JACOB FRIBERG PLOT NAME: 1" = 1' WISDOT/CADDS SHEET 49 LAYOUT NAME - EARTHWORK DATA

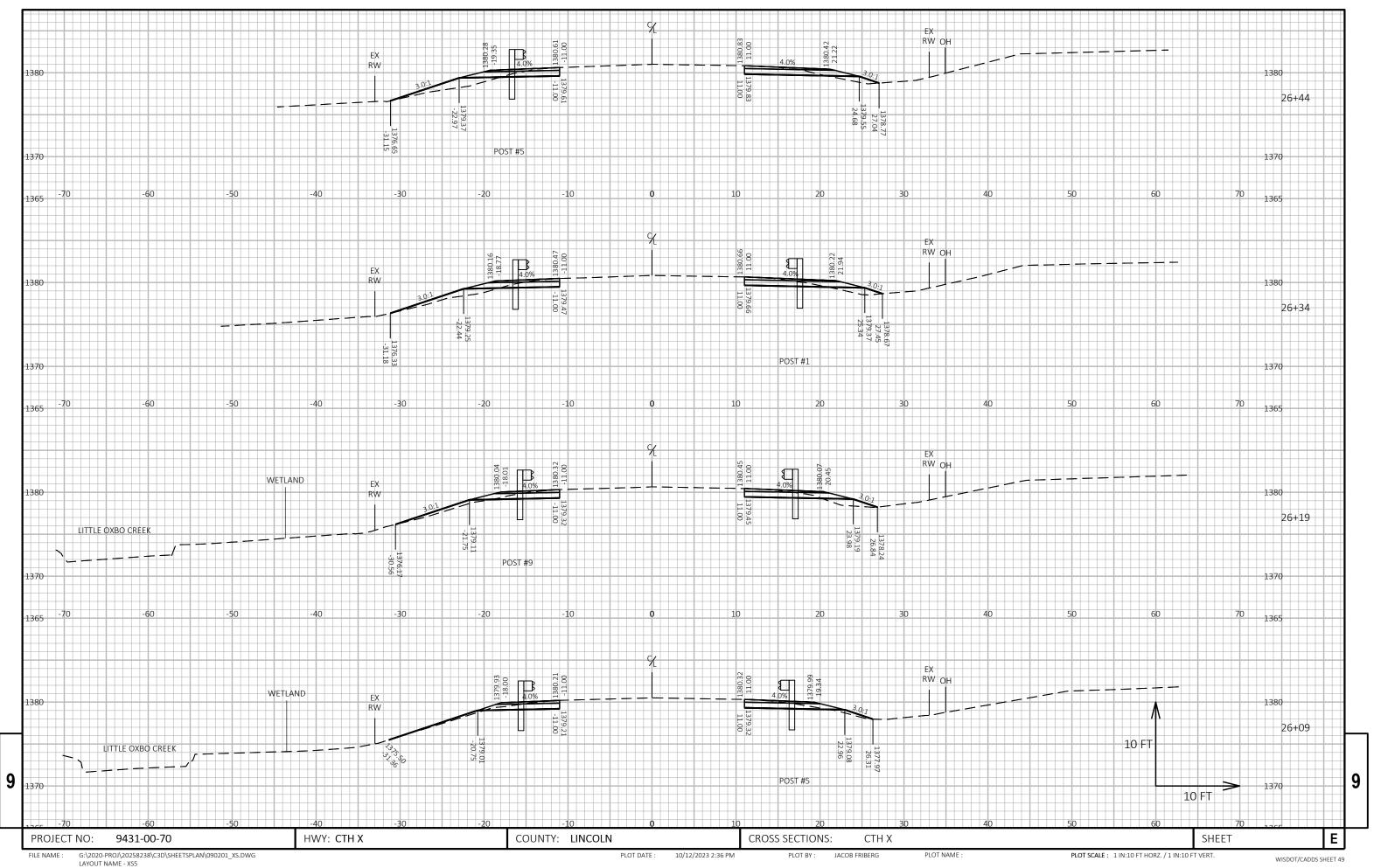


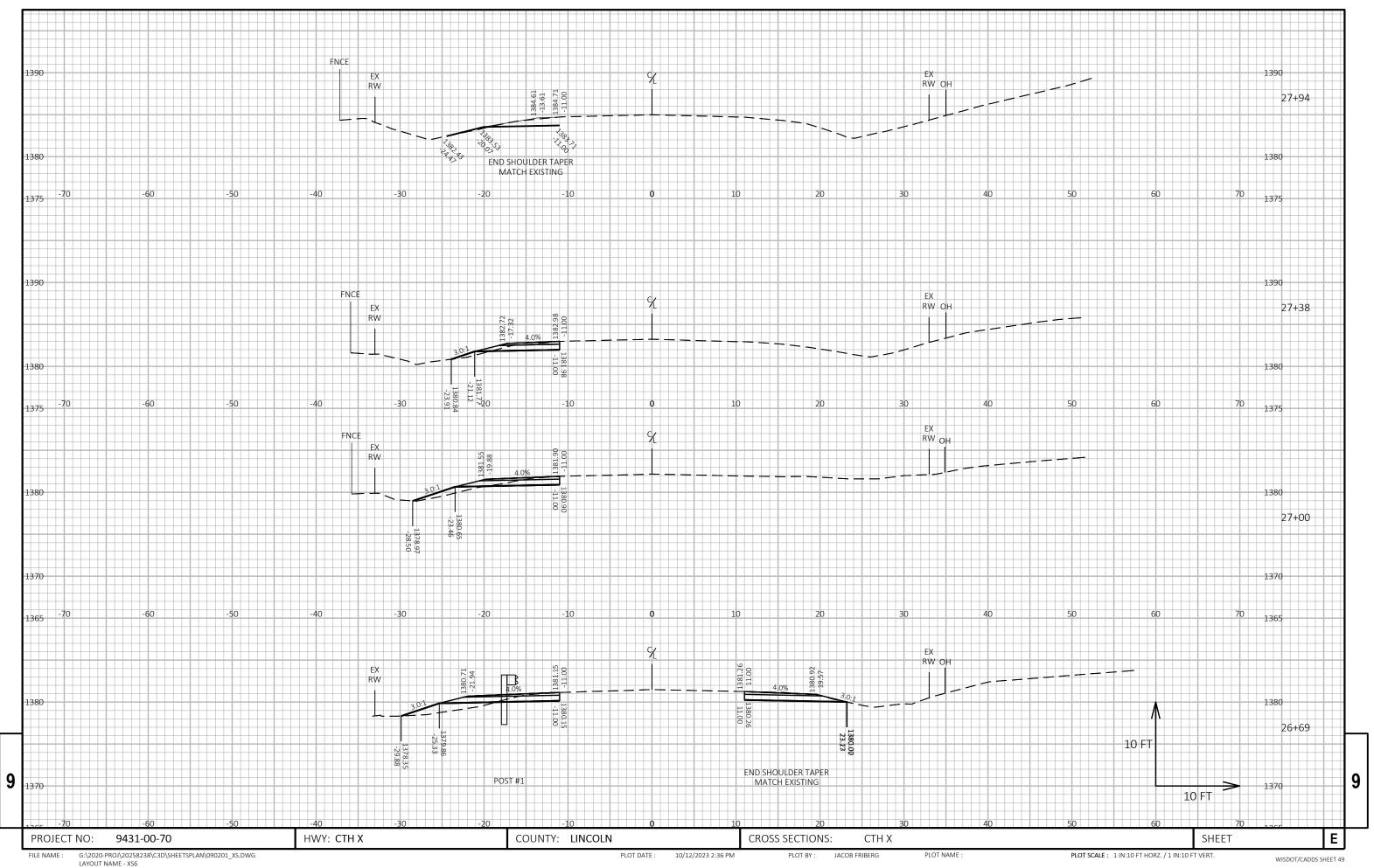
LAYOUT NAME - XS1



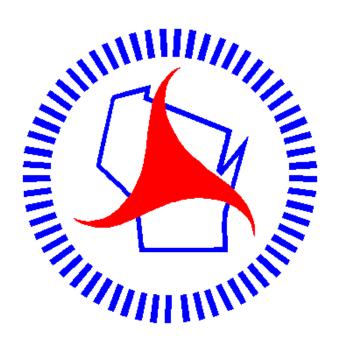








Notes



## Wisconsin Department of Transportation

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