JANUARY 2022

Section No.

Section No.

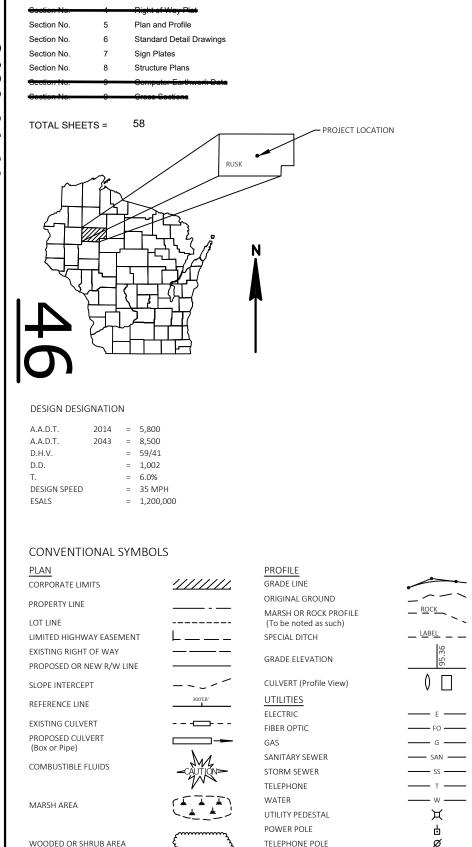
Section No.

ORDER OF SHEETS

Typical Sections and Details

Estimate of Quantities

Miscellaneous Quantities



# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

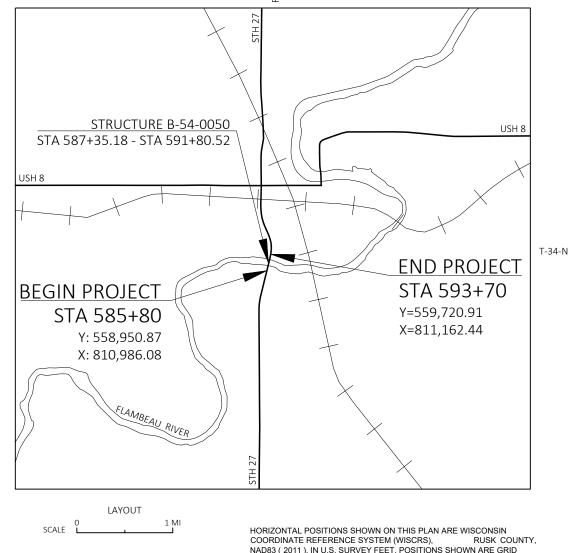
PLAN OF PROPOSED IMPROVEMENT

# C LADYSMITH, NINTH STREET

**FLAMBEAU RIVER BRIDGE B-54-0050** 

## **STH 27 RUSK COUNTY**

STATE PROJECT NUMBER 8180-01-60



NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 ( 2012 ). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

8180-01-60

CBS SQUARED Surveyor Designer Project Manage

PROVED FOR THE DEPARTMENT

\_7/22/21 Matthew of Dickenson

FILE NAME: N:\PDS\C3D\81800130\SHEETSPLAN\010101\_TI.DWG

7/7/2021 4:01 PM

TOTAL NET LENGTH OF CENTERLINE = 0.15

PLOT BY: BUKOVITZ, CAITLIN LE

PREPARED BY

LIST OF STANDARD ABBREVIATIONS

ABUTMENT ABUT. AGG. AGGREGATE AHFAD APPROXIMATE **APPROX** APRON ENDWALL A.E.W. **ASPHALTIC** ASPH. AVERAGE DAILY TRAFFIC

A.D.T. **AZIMUTH** AZ. BK. BACK BEG. BEGIN BENCH MARK B.M. CENTER LINE C/L CONCRETE CONC

CONSTRUCTION CONST COUNTY CO. C.T.H. COUNTY TRUNK HIGHWAY

CROSS SECTION X-SEC. CRUSHED CUBIC FEET/SECOND CUBIC YARD CFS C.Y., CU. YD. CULV. C.P. CULVERT

CULVERT PIPE DEPARTMENT OF TRANSPORTATION D.O.T.

D.H.V. DESIGN HOUR VOLUME DIAMETER DIA.

DIRECTIONAL DISTRIBUTION DISCH. OR DIS. DISCHARGE EACH

EA. ELECT. ELECTRIC EL. OR ELEV. EMB. **ELEVATION** EMBANKMENT

**EXCAVATION BELOW SUBGRADE** E.B.S. **EXISTING** 

EXIST. FERTILIZE FERT FIELD ENTRANCE F.E. FIN. FT. **FINISHED** F.L. GA. FLOW LINE GAUGE HORIZONTAL HORIZ. CWT. HUNDREDWEIGHT INL. INLET LT.

L.H.F. LEFT-HAND FORWARD LIN. LINEAR LIN. FT LINEAR FOOT L.S. MAX. LUMP SUM MAXIMUM MI. MILE MISCELLANEOUS MISC N.E.

N.W. **NORTH WEST** PAV'T PAVEMENT P.C. P.I. P.T. POINT OF CURVATURE POINT OF INTERSECTION POINT OF TANGENCY P.O.T. POINT ON TANGENT LB. POUND PRIVATE ENTRANCE PROJ. PROJECT

REQ'D REQUIRED RT RIGHT R.H.F. RIGHT-HAND FORWARD

R/W RIGHT OF WAY RD. ROAD SHR. SHRINKAGE SL. STD. SLOPE STANDARD

S.D.D. S.T.H. STANDARD DETAIL DRAWINGS STATE TRUNK HIGHWAY STA.

STATION S.P.P.A STRUCTURAL PLATE PIPE ARCH

STRUCT STRUCTURE SURF. TEL. TN. TELEPHONE TOWN TRUCKS (PERCENT OF)

UNCL. UNCLASSIFIED U.G. UNDERGROUND V. V.C. VELOCITY OR DESIGN SPEED VERTICAL CURVE

**GENERAL NOTES** 

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES 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.

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

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

THE 6.5" ASPHALTIC SURFACE SHALL BE PLACED IN THREE LIFTS.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN

UTILITY CONTACTS

COMMUNICATION:

CENTURYLINK-COMMUNICATION LINE

ATTN: BRIAN HUHN 425 ELLINGSON AVENUE HAWKINS, WI 54530 PHONE (OFFICE): 715-532-0023 PHONE (MOBILE): 715-563-8294 EMAIL: brian.huhn@centurylink.com

CHARTER COMMUNICATIONS

ATTN: JAMEY OLDEEN 2304 S MAIN STREET RICE LAKE, WI 54868 PHONE (OFFICE): 715-719-0561 PHONE (MOBILE): 715-651-7488 EMAIL: jamey.oldeen@charter.com WATER:

CITY OF LADYSMITH - WATER

ATTN: KURTIS GORSEGNER PO BOX 431 LADYSMITH, WI 54848 PHONE: 715-532-2603

EMAIL: kgorsegner@cityofladysmithwi.com

GAS/PETROLEUM

WE ENERGIES

ATTN: STEVEN CHAVERS 104 W. SOUTH STREET RICE LAKE, WI 54868 PHONE (OFFICE): 715-234-9605 PHONE (MOBILE): 715-213-4327 EMAIL: steven.chavers@we-energies.com 24-HOUR EMERGENCY CONTACT: 1-800-261-5325

**ELECTRICTY:** 

XCEL ENERGY - ELECTRICITY

ATTN: KATHY SCHANTNER 310 HICKORY HILLS LANE PHILLIPS, WI 54555 PHONE (OFFICE): 715-737-1102 EMAIL: kathleen.r.schantner@xcelenergy.com

WISCONSIN DNR-LIASON

ATTN: LEAH NICOL 1300 W. CLAIREMONT EAU CLAIRE, WI 54701 PHONE: 715-934-9014 EMAIL: leah.nicol@wisconsin.gov WISDOT NW REGION

ATTN: MATTHEW DICKENSON - PROJECT MANAGER 1701 N. 4TH ST SUPERIOR, WI 54880 PHONE: (718) 395-3022 EMAIL: matthew.dickenson@dot.wi.gov

ATTN: CAITLIN BUKOVITZ - DESIGN PROJECT LEADER 1701 N. 4TH ST SUPERIOR, WI 54880 PHONE: (715) 392-7975 EMAIL: caitlin.bukovitz@dot.wi.gov

PROJECT NO: 8180-01-60 HWY: STH 27

COUNTY: RUSK

**GENERAL NOTES** 

**SHEET** 

WISDOT/CADDS SHEET 42

N:\PDS\C3D\81800130\SHEETSPLAN\020101 GN.DWG FILE NAME :

Dial or (800)242-8511

www.DiggersHotline.com

10/15/2021 8:59 AM

BUKOVITZ, CAITLIN LE

PLOT NAME

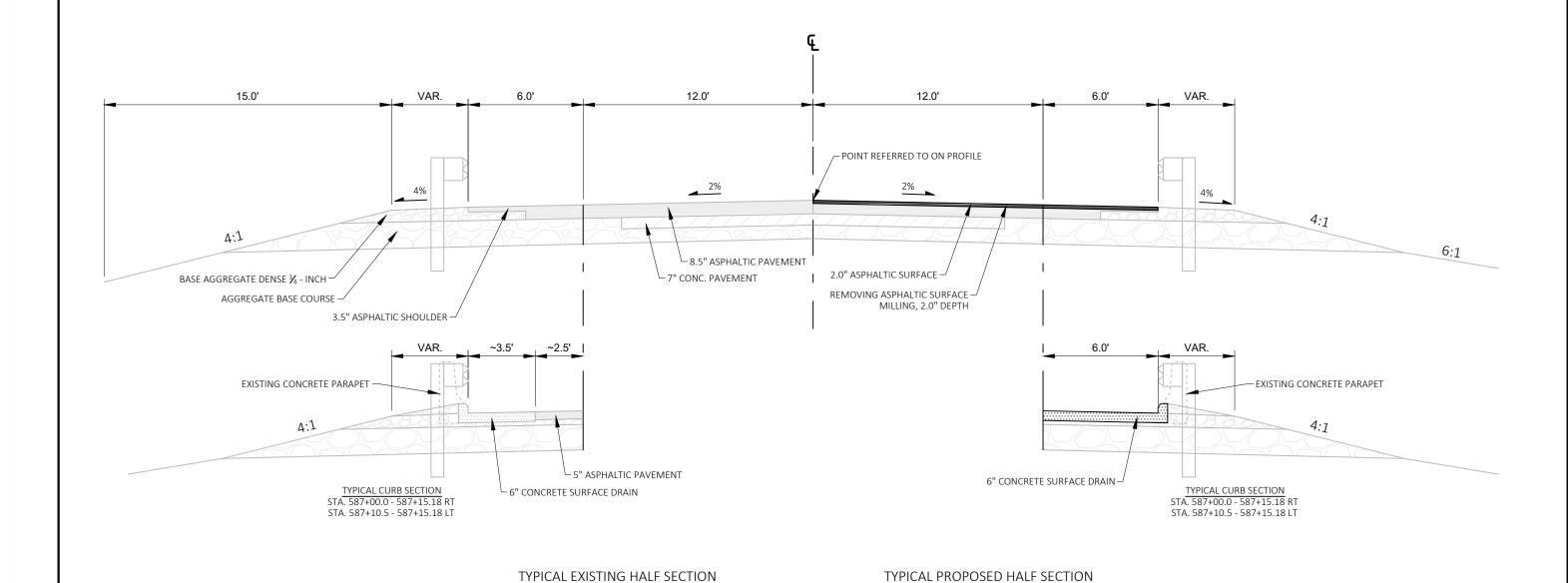
PLOT SCALE ###########

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LAYOUT NAME - GENERAL NOTES

PLOT DATE :





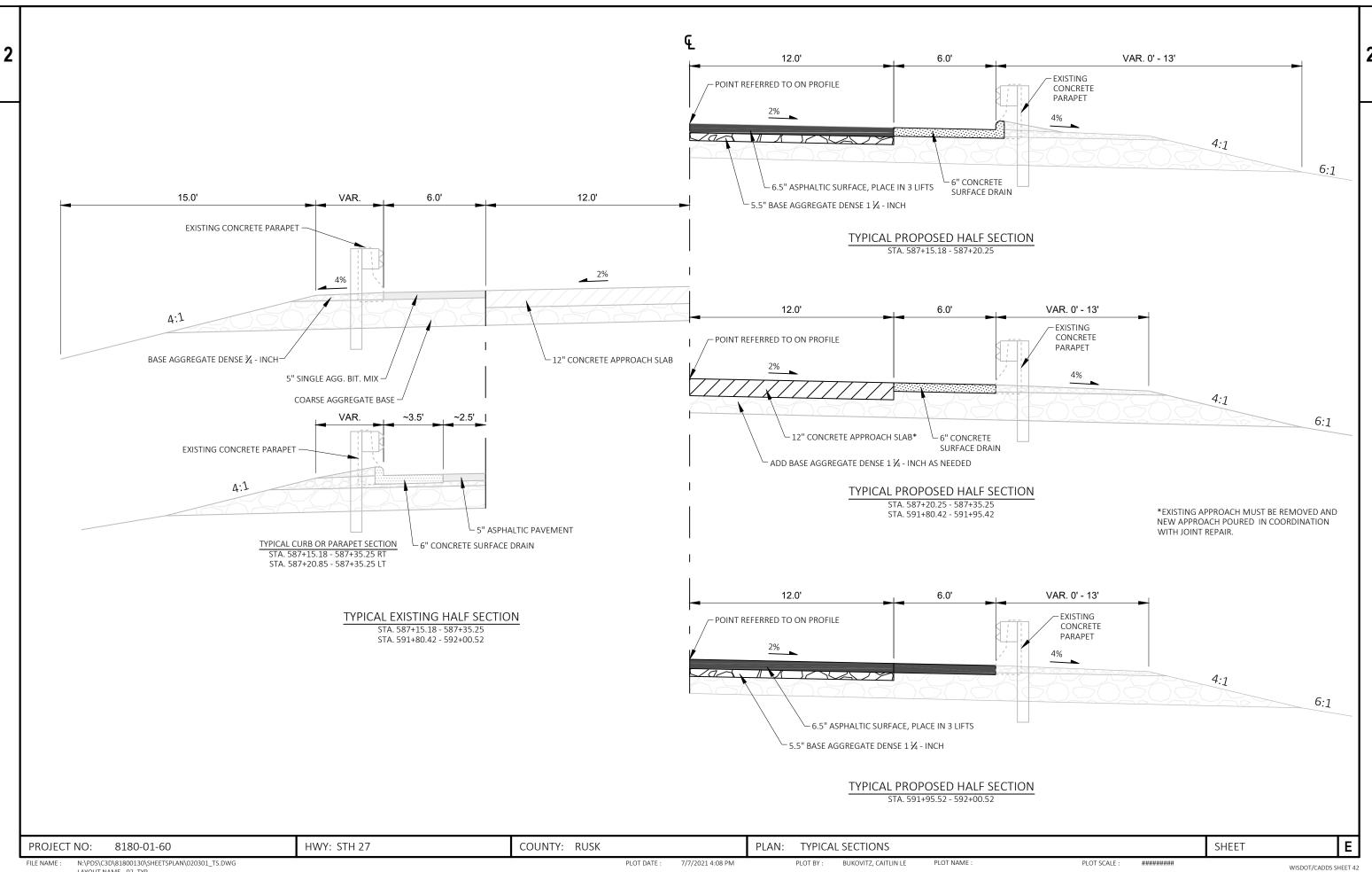
STA. 585+80 - 587+15.18

STA. 592+00.52 - 593+70

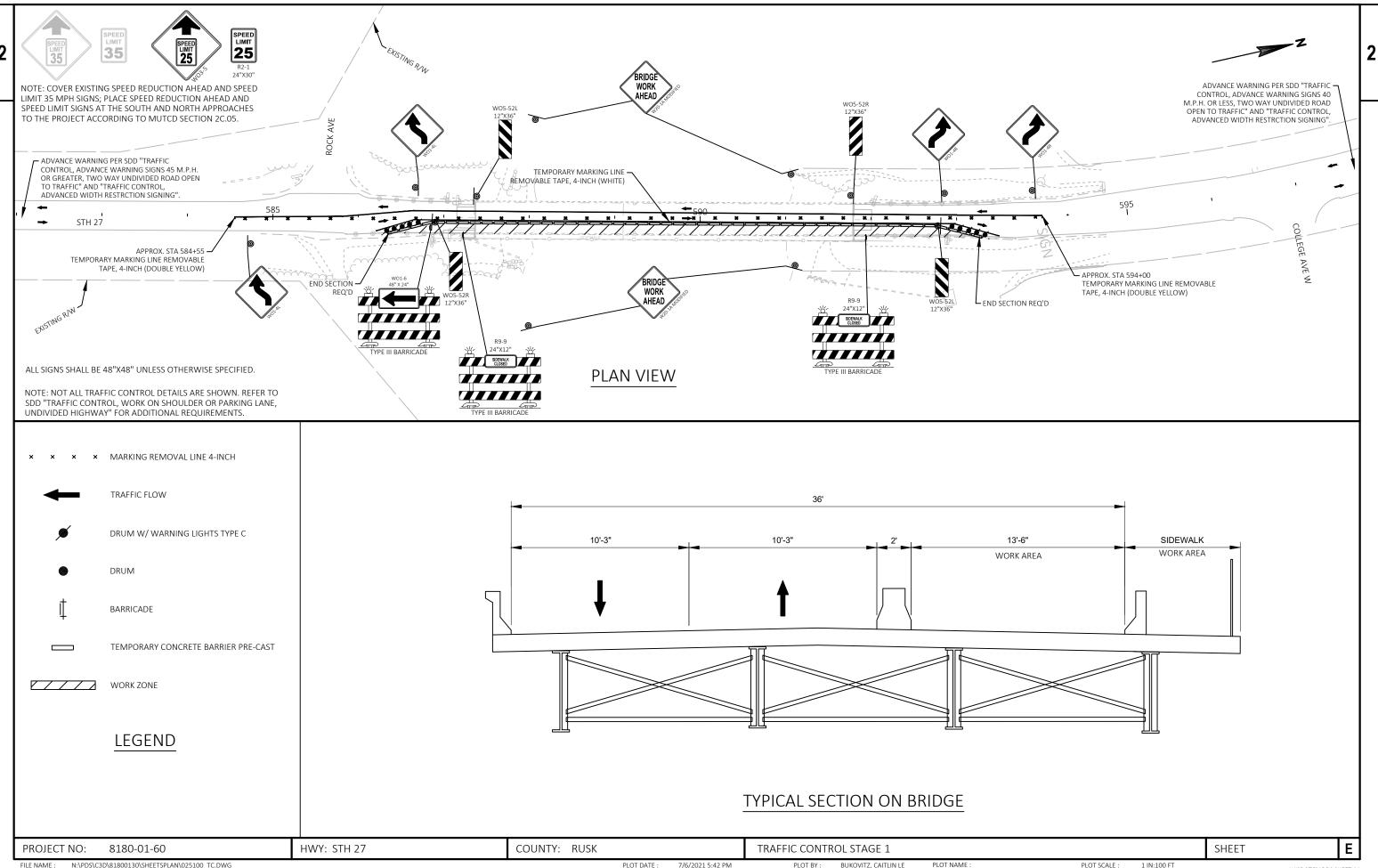
COUNTY: RUSK Ε PROJECT NO: 8180-01-60 HWY: STH 27 PLAN: TYPICAL SECTIONS SHEET FILE NAME : N:\PD\$\C3D\81800130\\$HEET\$PLAN\020301\_TS.DWG PLOT DATE :

STA. 585+80 - 587+15.18

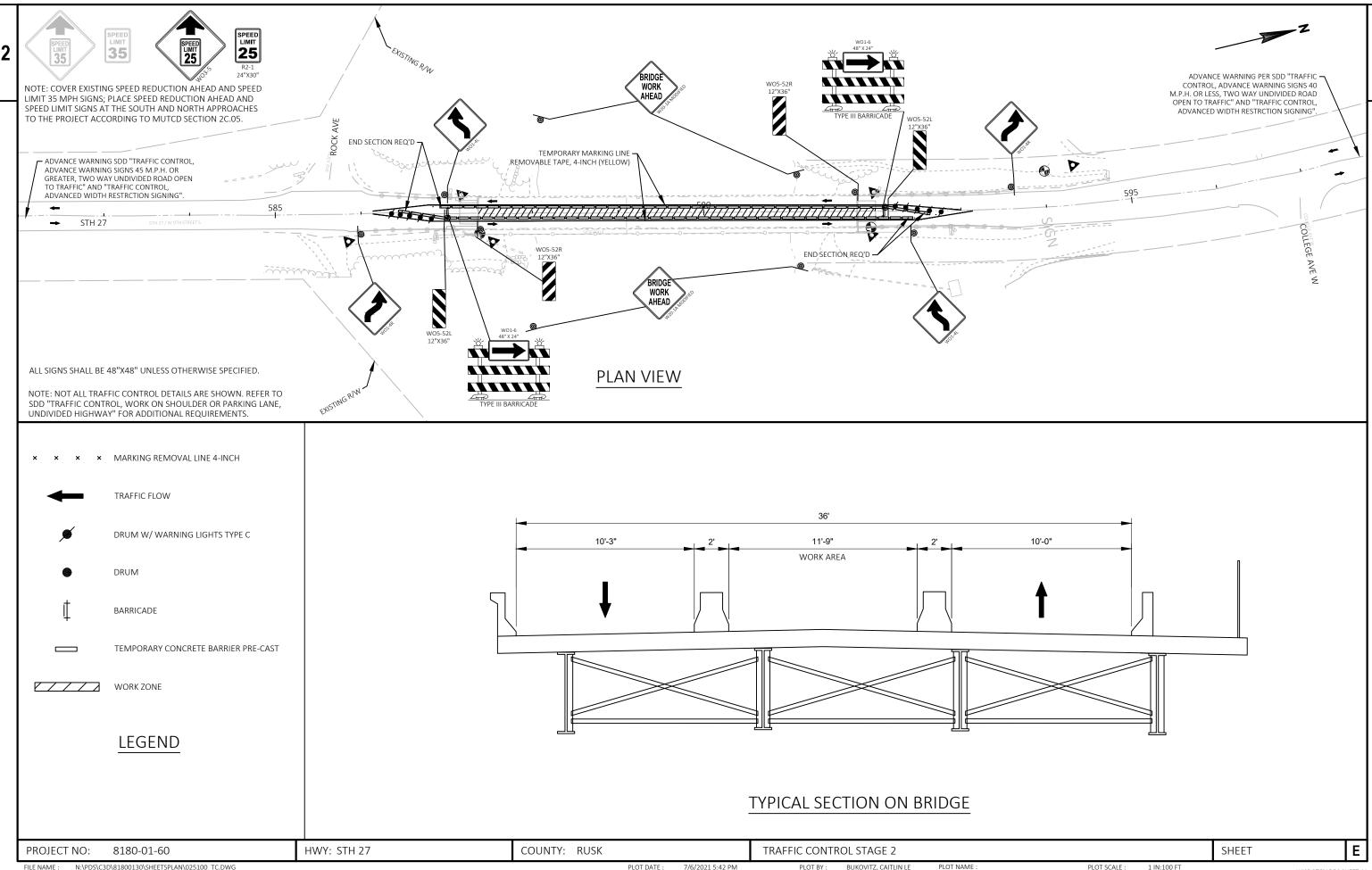
STA. 592+00.52 - 593+70



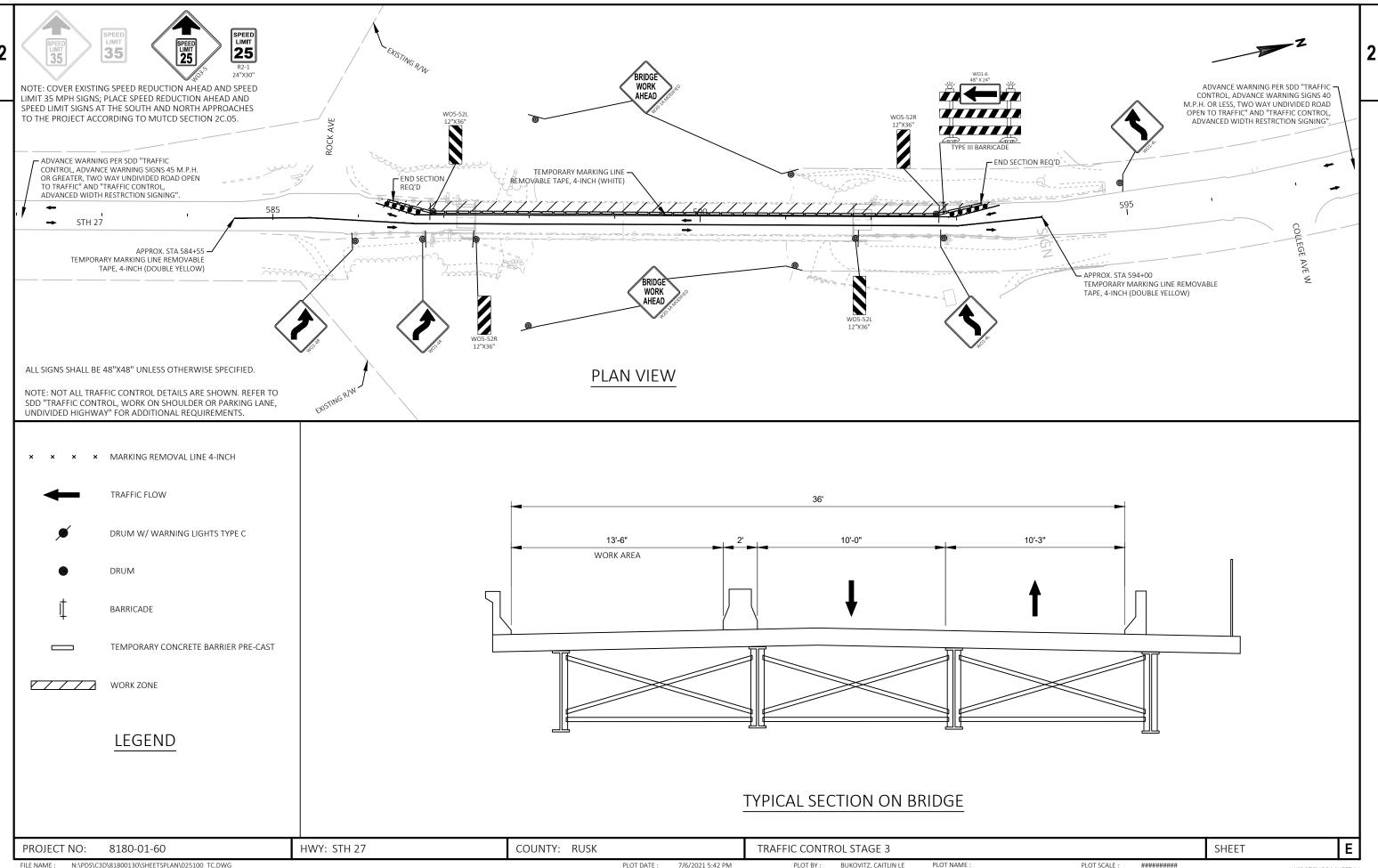
LAYOUT NAME - 02\_TYP



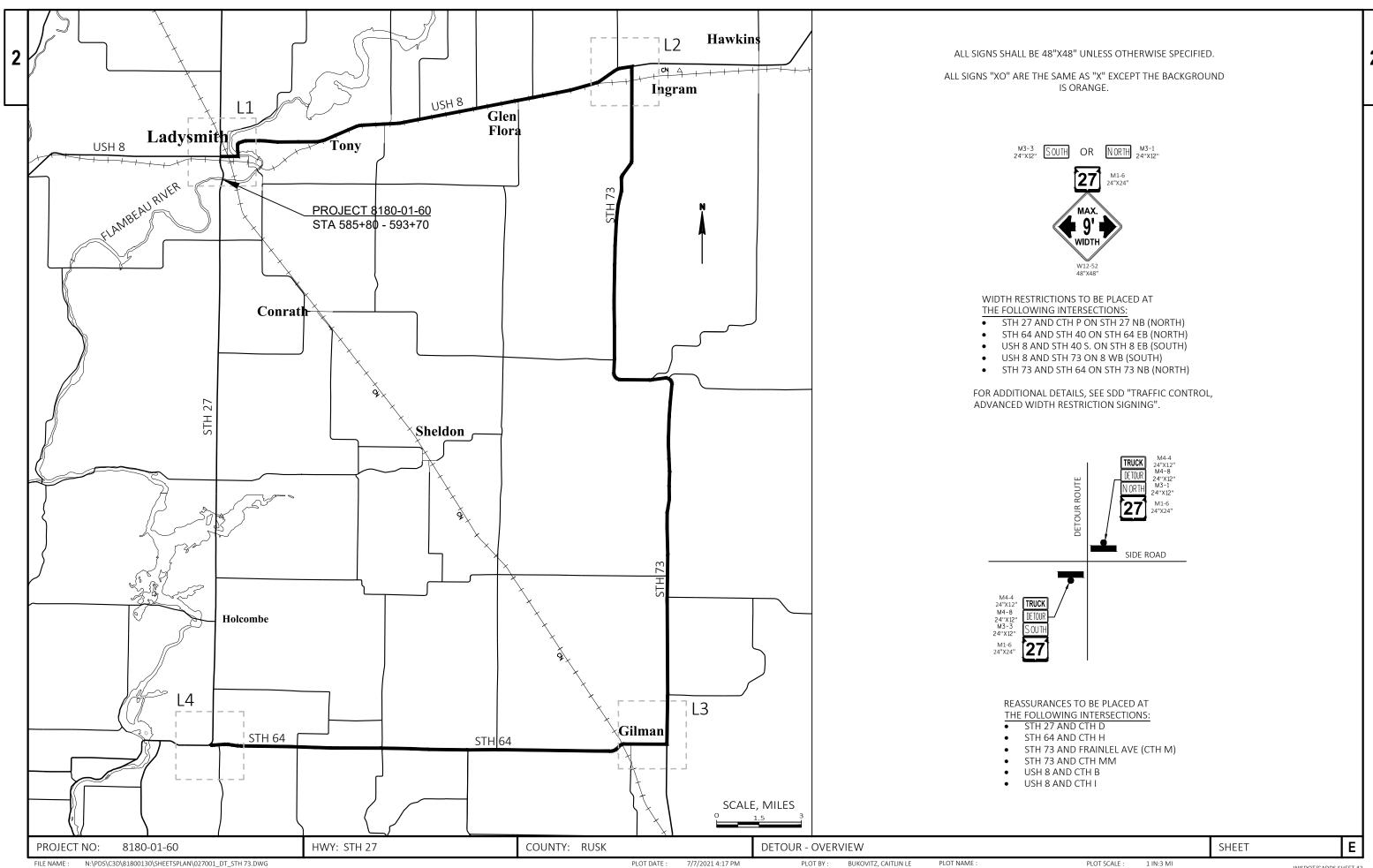
N:\PD\$\C3D\81800130\\$HEET\$PLAN\025100\_TC.DWG PLOT DATE : PLOT BY: BUKOVITZ, CAITLIN LE PLOT SCALE : 7/6/2021 5:42 PM 1 IN:100 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - TRAFFIC CONTROL STAGE 1



N:\PDS\C3D\81800130\SHEETSPLAN\025100\_TC.DWG PLOT BY: BUKOVITZ, CAITLIN LE PLOT DATE : PLOT SCALE : 7/6/2021 5:42 PM 1 IN:100 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - TRAFFIC CONTROL STAGE 2

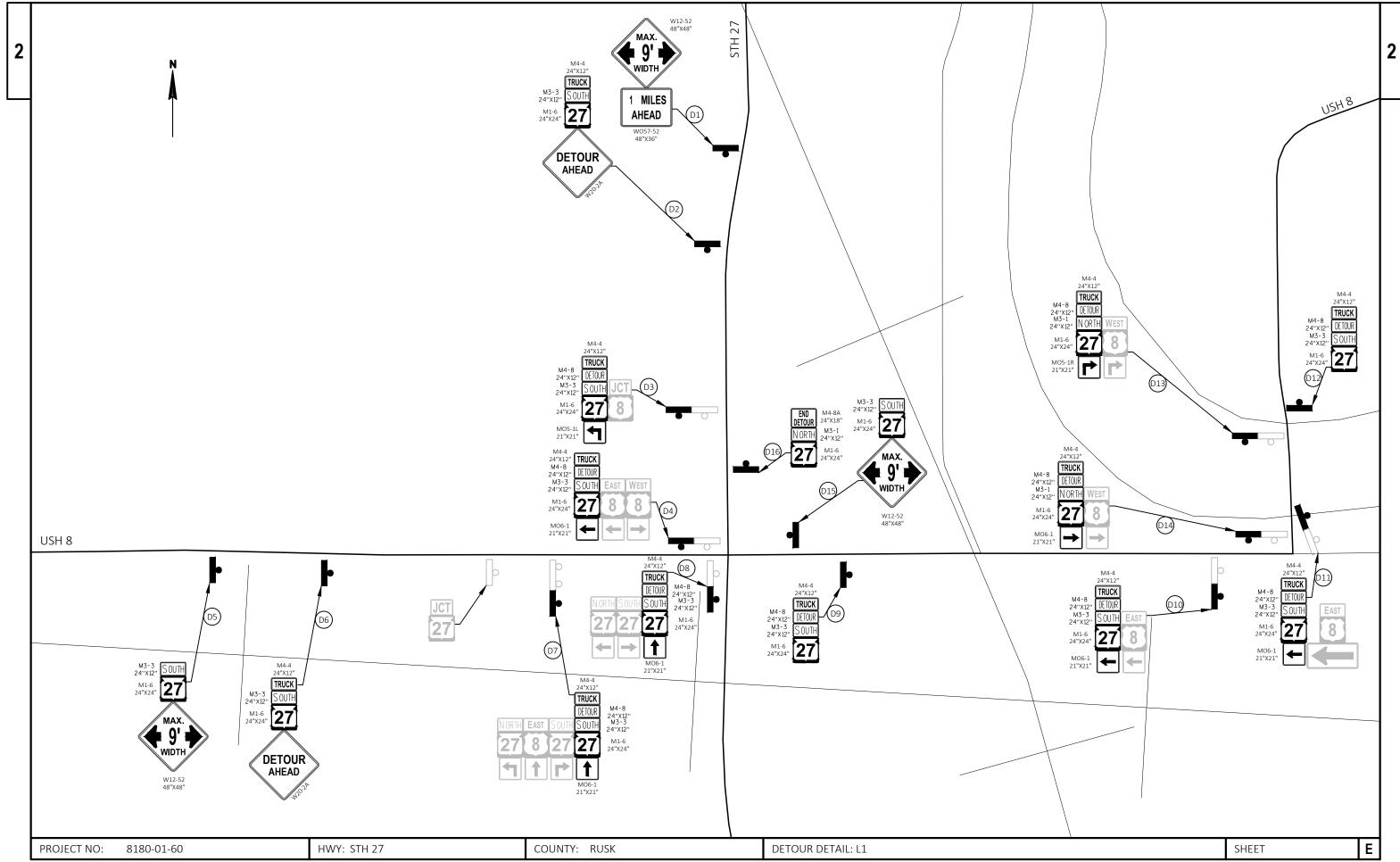


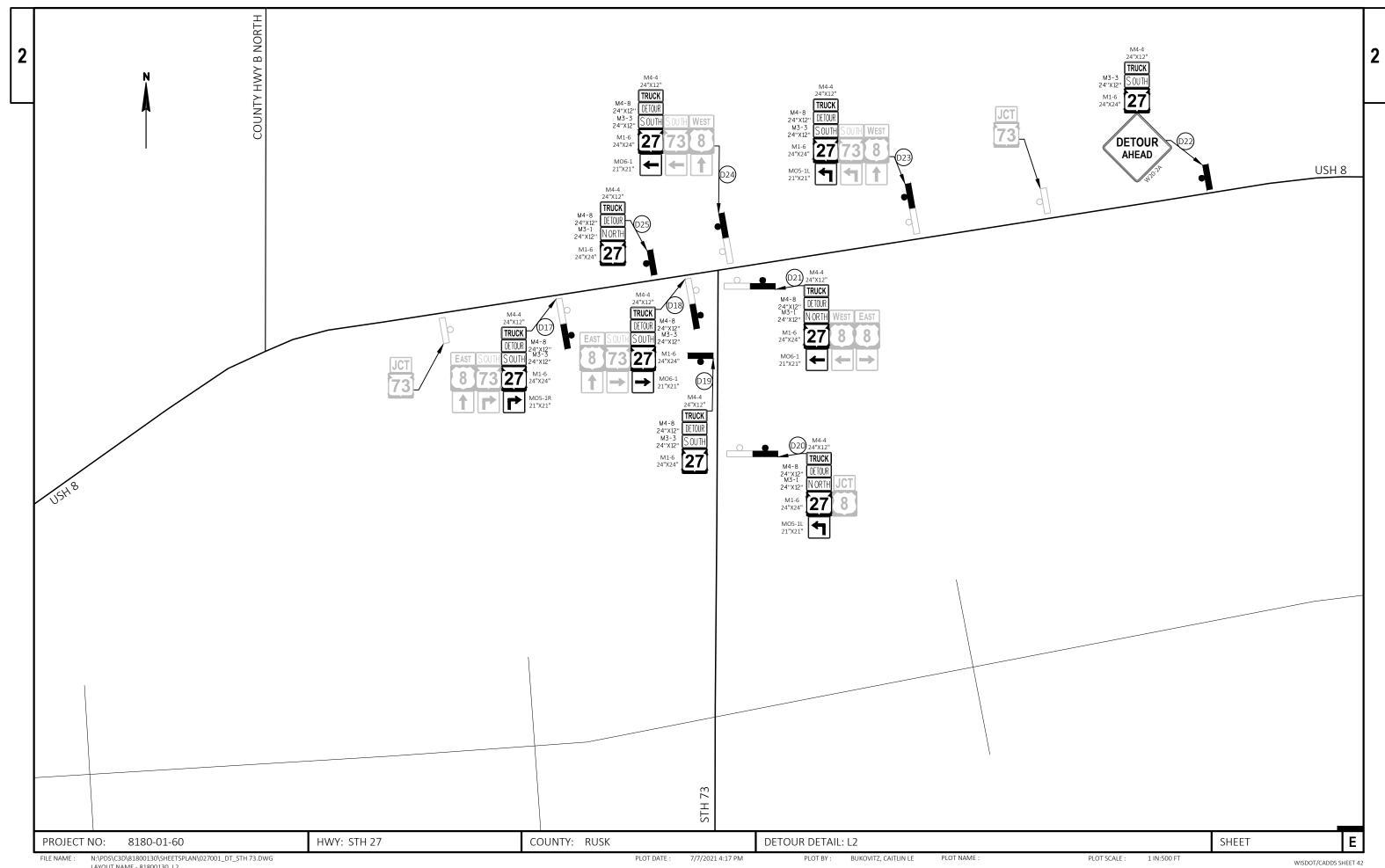
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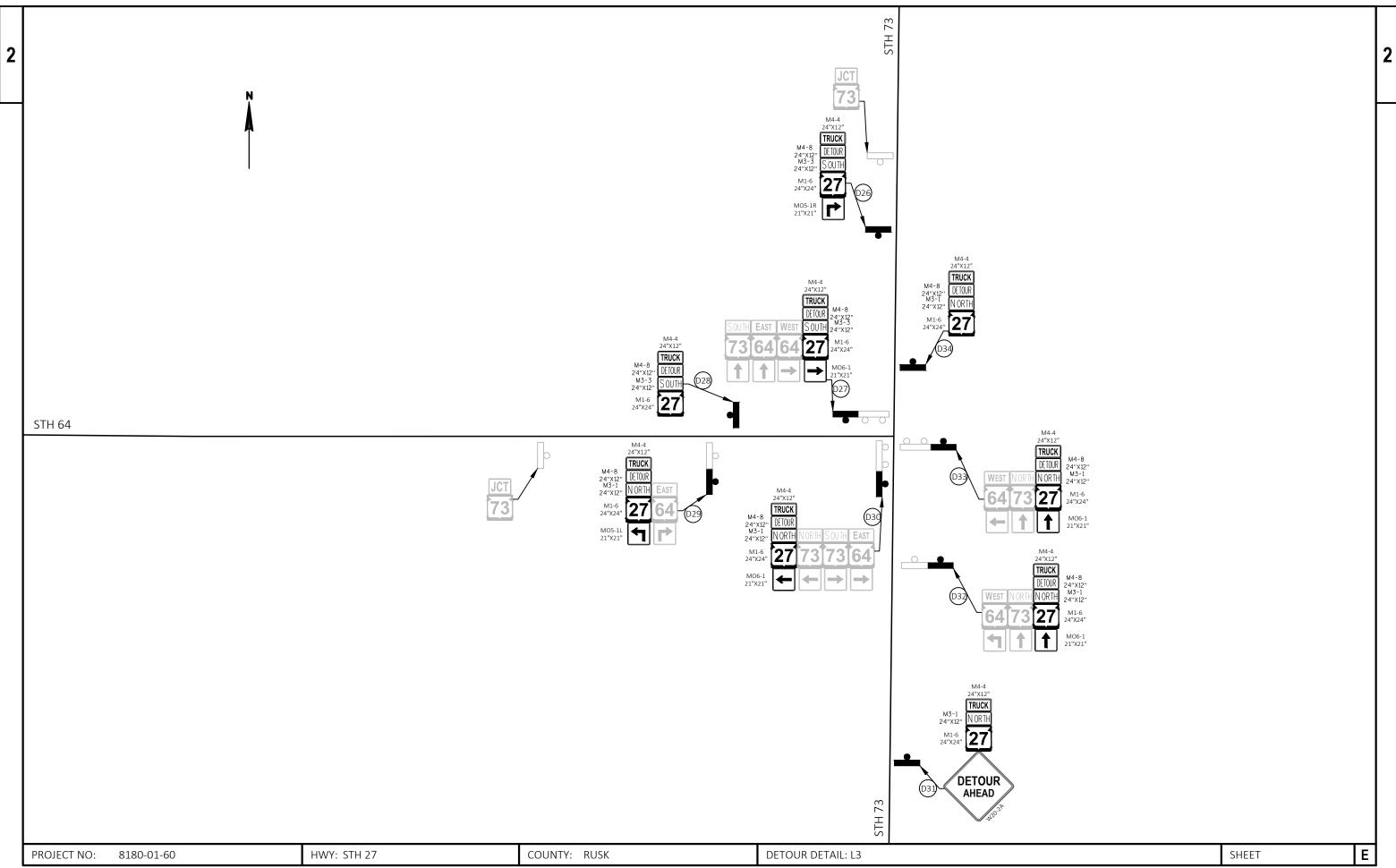


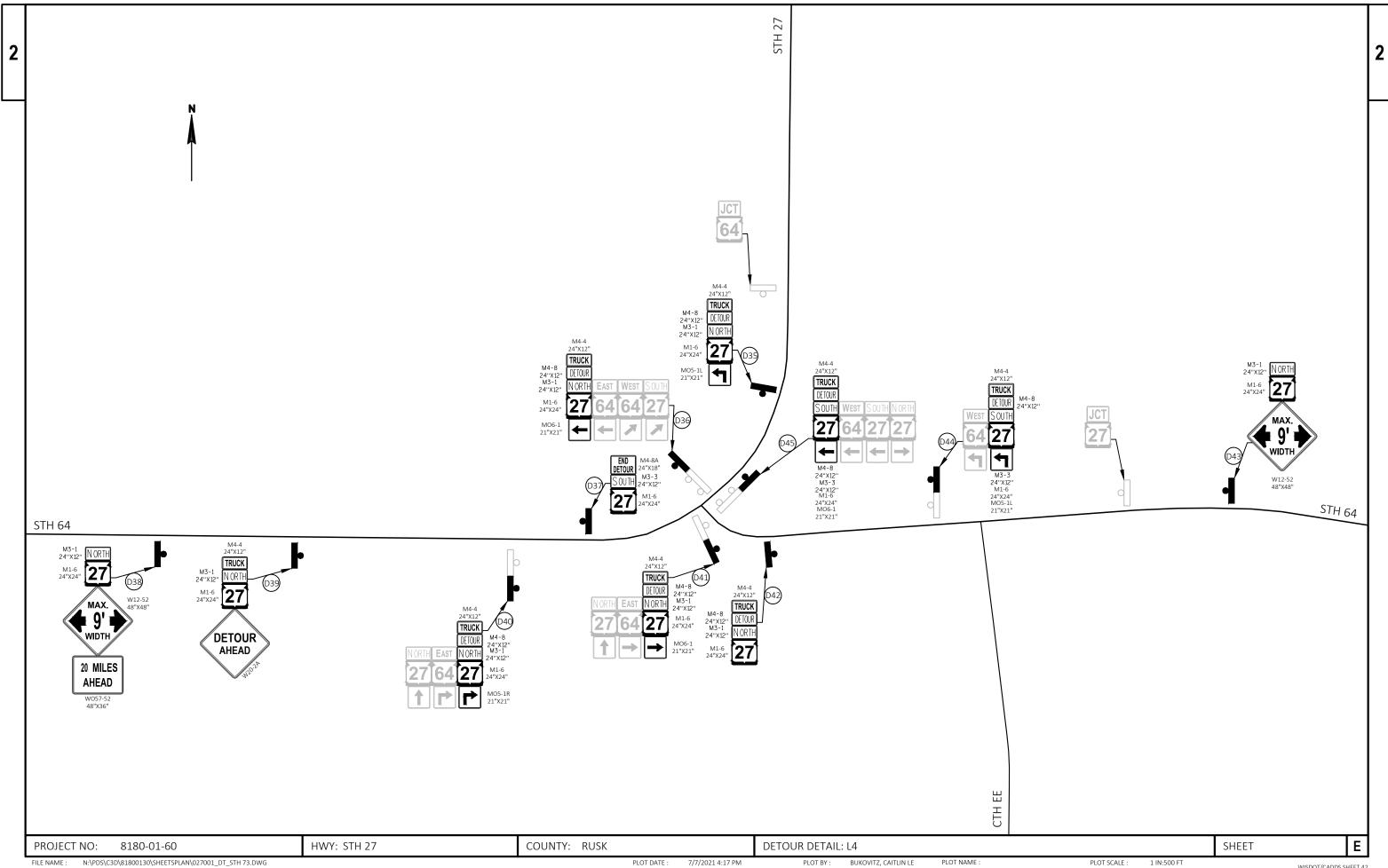
AME: N:\PDS\C3D\81800130\SHEETSPLAN\02/001\_DT\_STH 73.DWG PLOT BATE: 7///2021 4:1/ PM PLOT BY: BUKOVTZ, CATILIN LE PLOT NAME: 1IN:3 MI WISDOT/CADDS SHEET 42

LAYOUT NAME - 81800130\_OV









3

8180-01-60

Teach   Companies   Companie						8180-01-60	
204   100   Removing Grander Bewerneri   SY   13 1.000   13 1.00	Line	Item	Item Description	Unit	Total	Qty	
240   10	002	203.0335	Debris Containment Over Waterway (structure) 01. B-54-0050	EACH	1.000	1.000	
224   128   Removing Asabahilis Gurdan Milling   SY   1,220 000   12,200 000   12,	004	204.0100	Removing Concrete Pavement	SY	131.000	131.000	
240   170	006	204.0110	Removing Asphaltic Surface	SY	50.000	50.000	
240   170	800	204.0120	Removing Asphaltic Surface Milling	SY	1,220.000	1,220.000	
285.0100	10	204.0170		LF	63.000	63.000	
2313-000	12			CY			
386.0120   Sase Aggregate Dense 1 144-Inch   150.000   Concrete Payement Asproach Sib   SY   80.000     1415.0410   Concrete Payement Approach Sib   SY   80.000   80.000     1415.0410   Concrete Dense   Sy   80.000   80.000     1415.0410   Concrete Dense   Sy   80.000   80.000     1415.0410   Concrete Sufface Dense   Sy   80.000   80.000     1455.000   Tack Coat   Sy   50.000   Sy   50.000     1455.000   Tack Coat   Sy   50.000   Sy   50.000   Sy   50.000     1455.000   Tack Coat   Sy   50.000   Sy	14	213.0100	Finishing Roadway (project) 01. 8180-01-60		1.000		
415.0000 Concrete Payement 6 Inch 415.0110 Concrete Syrtem Deproach Slab 416.1010 Concrete Syrtem S	16	305.0120					
416,1010   Controle Surface Drains   SY   80,000   80,000     416,1010   Controle Surface Drains   CY   7,000     455,8065   Task Coat   GA   85,000   95,000     456,9065   Task Coat   GA   85,000   95,000     502,3001   Expansion Device 01   854,0000   LF   89,000   89,000     502,3002   Providerile Surface Treatment   SY   40,000   10,000     502,3002   Providerile Surface Treatment   SY   40,000   10,000     502,3002   Providerile Surface Treatment   Gasted Structures   SY   10,000   10,000     502,3002   Providerile Surface Surfac	18						
410.101 Concrete Surface Draine 455.080 Taxic Coal 456.081 Agshalfes Surface 502.3010 Pottective Surface Treatment 503.3010 Pottective Surface Tre	20		Concrete Pavement Approach Slab	SY			
455,0805         Tax Codel         GAL         85,000         95,000           465,0105         Expansion Device 01, 8-54-0050         LF         89,000         89,000           502,2310         Productive Surface Teatment         SY         46,000         46,000           502,2310         Pigmented Surface Sealer         SY         10,000         10,000           505,6006         Bar Souplers No. 5         EACH         4,000         40,000           505,6006         Bar Couplers No. 5         EACH         4,000         40,000           505,0006         Bar Couplers No. 5         EACH         4,000         40,000           505,0006         Bar Couplers No. 5         EACH         4,000         40,000           505,0006         Bar Couplers No. 5         EACH         4,000         40,000           500,1000         Joint Repair         SY         4,000         40,000           501,000         Concrete Surface Repair         SY         4,000         40,000           517,400.15         Concrete Surface Repair         CY         4,000         1,000           517,400.15         Concrete Surface Repair         CY         4,000         1,000           517,400.15         Concrete Surface Repair	22	416.1010	• • • • • • • • • • • • • • • • • • • •				
465.0156         Asphalinic Surfance         TON         155.00         155.00           502.3101         Expansion Device Oil 1.5-54-0150         LF         89.000         46.000           502.3202         Profestive Surface Treatment         SY         45.000         46.000           505.02410         Profestive Surface Saeler         SY         40.000         40.000           505.0904         Bar Couplers No. 5         EACH         4.000         40.000           505.0904         Bar Couplers No. 6         EACH         4.000         40.000           506.0906         Bar Couplers No. 6         EACH         4.0000         40.000           509.1000         Concrete Surface Repair         SF         2.0000         40.000           509.1000         Concrete Surface Repair         SF         2.0000         10.00           517.09015         Preparation and Collection of Waste Materials (structure) 01.8-54-0059         EACH         1.000         1.000           517.40015         Concrete Barrier Temporary Precasa Installed         LF         3.000         3.000           603.8000         Concrete Barrier Temporary Precasa Installed         LF         3.0000         4.000           611.9701         Sharbaged India Covers         EACH         <	24						
502,3101   Expansion Device OI I. B.54-0.055   LF   89,000   89,000   502,3201   Pigmented Surface Sealer   SY   10,000   3,050,000   505,0004   Bar Couplers No. 5   EACH   12,000   10,000   505,0005   Bar Couplers No. 5   EACH   12,000   10,000   505,0006   Bar Couplers No. 5   EACH   12,000   10,000   509,1000   Obin Repair   SY   10,000   14,000   509,1000   Obin Repair   SY   10,000   14,000   509,1000   Obin Repair   Obin	26						
502 3200 Protective Surface Treatment         SY (a) 000 0.000           502 3210 Digmented Surface Reinforcement HS Coated Structures         LB (a) 3,000,000           505 56904 Bar Couplers No. 5         EACH (a) 000 0.000           505 56905 Bar Couplers No. 5         EACH (a) 000 0.000           505 59006 Bar Couplers No. 5         EACH (a) 000 0.000           509 1000 Joint Repair         SF (a) 000 0.000         40,000           509 1500 Concrete Surface Repair         SF (a) 000 0.000         40,000           509 1500 Concrete Surface Repair         SF (a) 000 0.000         40,000           509 1500 Concrete Surface Repair         SF (a) 000 0.000         40,000           517,991 S. Peparation and Collection of Waste Nutriential sclutcure) 01.8-54-0050         EACH (a) 1,000         1,000           617,400 I.S Containment and Collection of Waste Nutriential sclutcure) 01.8-54-0050         EACH (a) 1,000         1,000           618,197 O. Concrete Surface Temporary Precast Installed         LF (a) 1,900,000         3,000,000           618,197 O. Subayaged India Covers         EACH (a) 4,000         4,000           618,197 O. Maintenance And Repair of Haus Roads (project) 01.8180-01-00         EACH (a) 1,000         4,000           618,000 O. Maintenance And Repair of Haus Roads (project) 01.8180-01-00         EACH (a) 1,000         1,000           618,000 O. Maintenance And Repa	28		•				
502 22/10   Pigmented Surface Sealer         SY 10.000         10.000           605.0600   Bar Scuelpier No. 4         EACH   4.000         4.000           605.0600   Bar Couplers No. 5         EACH   4.000         4.000           605.0600   Bar Couplers No. 5         EACH   46.000         46.000           609.1000   Joint Rapair         SY   40.000         40.000           609.1000   Joint Rapair         SY   40.000         20.000           609.1000   Concrete Masony Deck Repair         SY   20.000         20.000           519.2100   S. Concrete Masony Deck Repair         SY   24.000         14.000           517.4001   S. Concrete Masony Deck Repair         SY   40.000         14.000           517.4001   S. Concrete Masony Deck Repair         SY   40.000         14.000           517.4001   S. Concrete Masony Deck Repair         EACH   1.000   1.000         1.000           613.000   Concrete Barrier Temporary Precast Delivered         EACH   1.000   1.190.000         1.000           613.910   S. Concrete Barrier Temporary Precast Delivered         LF   3.000.000         3.000.000           611.910   Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH   4.000   4.000         4.000           613.910   Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH   1.000   1.000         1.000           618.101	30		•				
505.0000 Bar Steel Reinforcement HS Conted Structures         EACH 4.00 4.00           505.00904 Bar Couplers No. 5         EACH 4.00 4.00           505.00905 Bar Couplers No. 5         EACH 4.00 4.00           505.00906 Bar Couplers No. 6         EACH 4.00           509.1000 Joint Repair         SY 4.00           509.1000 Joint Repair         SY 4.00           509.1000 Joint Repair         SY 4.00           509.21000 Concrete Masonry Dock Repair         CY 14.00           517.0011 Signature         CY 14.00           517.0011 Signature         CY 14.00           517.0011 Signature         Concrete Burder Temporary Precase Structure Joil -8-54-0050         EACH 1.00           517.0011 Signature         Concrete Burder Temporary Precase Installed         LF 1,180.00         1,000           603.8125 Concrete Burder Temporary Precase Installed         LF 300.00         3,000         3,000           611.9100 Signature         Concrete Burder Temporary Precase Installed         LF 60.00         600.00           611.9010 Millstrage Burder Repair of Half Reads (project) 01.8180-01-80         EACH 4.000         4.000           616.0020 Final Link 4-FT         EACH 4.000         4.000           618.0100 Maintenance And Repair of Half Reads (project) 01.8180-01-80         EACH 1.000         1.000           618.0100 Maintenance	32						
S05.09094   Bar Couplers No. 4	34		3				
506,0905 Bar Couplers No. 5         BAC Quiplers No. 6         EACH 40,000 48,000           509,1000 Joint Repair         SY 40,000 48,000           509,1500 Concrete Surface Repair         SF 20,000 20,000           509,1500 Concrete Masonry Deck Repair         SF 20,000 14,000           517,0901 S. Preparation and Coating of Top Flanges (structure) 01. B-54-0050         EACH 1,000 1,000           517,4901 S. Concrete Barrier Temporary Precast Delivered         LF 1,900,000 1,100           603,8102 Concrete Barrier Temporary Precast Installed         LF 1,900,000 1,100           611,9710 Salvagad Intel Covers         EACH 4,000 4,000 1,000           611,9710 Salvagad Intel Covers         EACH 4,000 4,000 1,000           611,9710 Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH 4,000 4,000 1,000           618,010 Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH 1,000 1,000 1,000           618,010 Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH 1,000 1,000 1,000           618,010 Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH 1,000 1,000 1,000           624,010 Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH 1,000 1,000 1,000           631,010 Maintenance And Repair of Haul Roads (project) 01.8180-01-60 (BACH 1,000	36					•	
Son 9,000	38		•				
590,1000 Joint Repair         SY 40,000 40,000           500,1500 Concrete Surface Repair         SF 20,000 20,000           599,2100 S Concrete Masonry Deck Repair         CY 14,000 11,000           517,9011-S Preparation and Coating of Top Flanges (structure) 01. B-54-0050 EACH 1.000 1.000         1,000           603,8000 Concrete Barrier Temporary Precast Delivered         LF 1,100,000 1,190,000           603,8105 Concrete Barrier Temporary Precast Installed         LF 3,000,000 1,190,000           611,917 O Salvaged Iniet Covers         EACH 4,000 4,000           611,917 O Salvaged Iniet Covers         EACH 4,000 4,000           616,024 Pence Chain Link 4-FT         LF 60,000 5,000           616,024 Pence Chain Link 4-FT         LF 60,000 5,000           619,1000 Mobilizations Erosion Control         EACH 1,000 1,000           624,1010 Water         Mobilizations Erosion Control         EACH 2,000 2,000           623,1910 Mobilizations Erosion Control         EACH 1,000 1,000           643,000 Traffic Control Drums         EACH 1,000 1,000           643,000 Traffic Control Signs         DAY 600,000           643,000 Traffic Control Signs Type II         DAY 140,000 140,000           643,000 Traffic Control Signs Sign Type II         DAY 140,000 140,000           643,000 Traffic Control Signs Sign Sype II         EACH 1,000 140,000           643,000 Traffic C	10						
509 1500 Concrete Surface Repair         SF         20,000         20,000           509 2100 S. Concrete Masony Deck Repair         CY         14,000         1,000           517 4001 S. Preparation and Coating of Top Flanges (structure) 01. B-54-0050         EACH         1,000         1,000           603 8000 C. Concrete Barrier Temporary Precast Delivered         LF         1,900.00         1,190.00           603 1,1971 G. Sahaged Intel Covers         EACH         1,000         3,000.00           611,1971 G. Sahaged Intel Covers         EACH         1,000         4,000           614,000 A. Adjusting Steel Plate Beam Guard         LF         6,000         60,000           616,0204 Fence Chain Link 4-FT         LF         6,000         60,000           618,1000 Maintenance And Repair of Haul Roads (project) 01.8180-01-80         EACH         1,000         1,000           624,0100 Water         MGAL         1,000         1,000         1,000           628,1955 Mobilizations Erosion Control         EACH         2,000         2,000           628,1951 M. Mobilizations Erosion Control         EACH         4,000         4,000           643,0000 Trialfic Control Drums         DAY         60,000         60,000           643,03001 Trialfic Control Brinseed Stype III         DAY         1,000	12						
509 2100 S.         Concrete Masonry Deck Repair         CY         14,000         14,000           517 901 S.         Peparation and Coating of Top Flanges (structure) 01. B-54-0050         EACH         1,000         1,000           603.800 Concrete Barrier Temporary Precast Delivered         LF         1,190,000         1,190,000           611.9710 Salvaged Inlet Covers         EACH         4,000         4,000           611.9710 Ajulsing Steel Plate Beam Guard         LF         536,000         536,000           618.0100 Mobilization         Maintenance And Repair of Haul Roads (project) 01. 8180-01-60         EACH         1,000         1,000           619.1000 Mobilization         Mobilizations Errosion Control         EACH         1,000         1,000           628.1910 Mobilizations Errosion Control         EACH         1,000         1,000           628.1910 Mobilizations Errosion Control         EACH         2,000         2,000           628.1910 Mobilizations Errosion Control         EACH         1,000         1,000           643.0300 Traffic Control Signs         EACH         1,000         1,000           643.3000 Traffic Control Warning Lights Type A         DAY         600,000         600,000           643.3000 Traffic Control Signs Fixed Message         EACH         1,000         140,000	4		•				
617.0901.8         Preparation and Coating of Top Flanges (structure) 01. B-64-0050         EACH         1.000         1.000           617.4001.8         Contrainment and Collection of Waste Materials (structure) 01. B-64-0050         EACH         1.000         1.000           603.8000         Concrete Barrier Temporary Precast Installed         LF         1,99.000         4.000           619.9710         Salvaged Intel Covers         EACH         4.000         4.000           614.0400         Adjusting Steel Plate Beam Guard         LF         6.000         6.000           618.0204         Fence Chain Link 4-FT         LF         6.000         6.000           618.0204         Fence Chain Link 4-FT         LF         6.000         6.000           618.0204         Mobilization Serial of Haul Roads (project) 01. 8180-01-60         EACH         1.000         1.000           624.0100         Mobilization Serial Control         EACH         1.000         1.000           628.1905         Mobilization Seriagency Erosion Control         EACH         2.000         2.000           628.1901         Inlet Protection Type B         EACH         4.000         4.000           642.80101         Inlet Protection Type B         EACH         4.000         4.000           643.02	16		·				
617.4001.8         Containment and Collection of Waste Materials (structure) 01. B-54-0050         EACH         1.000         1.000           603.8000         Concrete Barrier Temporary Precast Installed         LF         3,030.000         3,030.000           611.9710         Salvaged Inlet Covers         EACH         4,000         4,000           616.0204         Fence Chain Link 4-FT         LF         630.00         630.000           618.0100         Maintenance And Repair of Haul Roads (project) 01. 8180-01-60         EACH         1.000         1.000           624.0100         Maintenance And Repair of Haul Roads (project) 01. 8180-01-60         EACH         1.000         1.000           624.0100         Mobilizations Erosion Control         EACH         1.000         1.000           628.1905         Mobilizations Erregency Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         1.000         1.000           643.0300         Traffic Control Barricades Type III         DAY         600.000         600.000           643.0301         Traffic Control Barricades Type II         DAY         40.000         40.000           643.0750         Traffic Control Warning Lights Type C         DAY         140.000         600	18		·				
603.8000         Concrete Barrier Temporary Precast Installed         LF         1,190.000         3,030.000           603.8125         Concrete Barrier Temporary Precast Installed         LF         3,030.000         3,030.000           614.0400         Adjusting Steel Plate Beam Guard         LF         60.000         60.000           616.0204         Fence Chair Link 4-FT         LF         580.000         536.000           618.0100         Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH         1.000         1.000           619.1000         Mobilization         EACH         1.000         1.000           624.0101         Water         Mobilization Seroison Control         EACH         2.000         2.000           628.1905         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           628.1901         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0420         Traffic Control Barricades Type III         DAY         84.000         84.000           643.0715         Traffic Control Warning Lights Type A         DAY         140.000         14.000           643.0700	50						
603.8125         Concrete Barrier Temporary Precast Installed         LF         3,030,000         3,030,000           611.9710         Salvaged Inlet Covers         EACH         4,000         4,000           614.0400         Adjusting Steel Plate Beam Guard         LF         60,000         536,000           618.0100         Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH         1,000         1,000           619.1000         Mobilization         EACH         1,000         1,000           628.1010         Materiance And Repair of Haul Roads (project) 01.8180-01-60         EACH         1,000         1,000           628.1010         Mobilizations Erosion Control         EACH         1,000         0,100           628.1010         Mobilizations Ernergency Erosion Control         EACH         2,000         2,000           628.7010         Inlet Protection Type B         EACH         4,000         4,000           643.0300         Traffic Control Durus         DAY         80,000         80,000           643.0420         Traffic Control Warning Lights Type A         DAY         140,000         140,000           643.075         Traffic Control Warning Lights Type C         DAY         17,42,000         17,42,000           643.0920	52		` ,				
611.9710         Salvaged Inlet Covers         EACH         4.000         4.000           614.0400         Adjusting Steel Plate Beam Guard         LF         60.000         60.000           616.0204         Fence Chain Link 4-FT         LF         536.000         536.000           618.0100         Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH         1.000         1.000           629.1010         Mobilizations and Control         EACH         1.000         1.000           628.1905         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Inlet Protection Type B         EACH         4.000         4.000           642.5011         Inlet Protection Type B         EACH         1.000         1.000           643.0300         Traffic Control Drums         DAY         60.000         60.000           643.0705         Traffic Control Warning Lights Type A         DAY         140.000         140.000           643.0705         Traffic Control Warning Lights Type G         DAY         17.142.000         17.142.000           643.000         Traffic Control Gyins Fixed Message	54						
614.0400         Adjusting Steel Plate Beam Guard         LF         60.000         60.000           616.0204         Fence Chain Link 4-FT         LF         536.000         536.000           618.0100         Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH         1.000         1.000           619.1000         Mobilization         EACH         1.000         1.000           624.0100         Water         MGAL         0.100         2.000           628.1910         Mobilizations Erosion Control         EACH         2.000         2.000           628.7910         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0300         Traffic Control Barriacates Type III         DAY         80.000         600.000           643.0705         Traffic Control Warning Lights Type A         DAY         140.000         140.000           643.0705         Traffic Control Signs Fyse II         EACH         3.000         600.000           643.0705         Traffic Control Signs Fyse II         EACH         1,140.00         1,140.00           643.0705         Traffic Control Signs Fyse II         EACH         1,17,142.			· · ·				
618.0204         Fence Chain Link 4-FT         LF         536.000         536.000           618.0100         Maintenance And Repair of Haul Roads (project) 01.8180-01-60         EACH         1.000         1.000           619.1000         Mobilization         EACH         1.000         1.000           628.1905         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0305         Traffic Control Drums         DAY         600.000         600.000           643.0420         Traffic Control Warning Lights Type A         DAY         140.000         140.000           643.0705         Traffic Control Warning Lights Type C         DAY         140.000         140.000           643.0900         Traffic Control Signs         DAY         17.142.000         17.142.000           643.0900         Traffic Control Signs Fype II         EACH         3.000         3.000           643.0000         Traffic Control Signs Fybe Message         SF <td>56 58</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	56 58						
618.0100         Maintenance And Repair of Haul Roads (project) 01. 8180-01-60         EACH         1.000           619.1000         Mobilization         EACH         1.000         1.000           624.0100         Water         MGAL         0.100         0.100           628.1910         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Mobilizations Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         4.000         4.000           643.0300         Traffic Control Drums         DAY         600.000         600.000           643.0300         Traffic Control Warning Lights Type A         DAY         400.000         600.000           643.0705         Traffic Control Warning Lights Type C         DAY         600.000         600.000           643.0900         Traffic Control Signs         DAY         600.000         600.000           643.0900         Traffic Control Signs Type II         EACH         3.000         600.000           643.0900         Traffic Control Signs Signs Type II         EACH         3.000         3.000           643.0000         Traffic Control Signs Fixed Message         SF         64.000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
619.1000         Mobilization         EACH         1.000         1.000           624.0100         Water         MGAL         0.100         0.100           628.1905         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0300         Traffic Control Barricades Type III         DAY         600.000         600.000           643.0420         Traffic Control Warning Lights Type A         DAY         400.000         400.000           643.0705         Traffic Control Warning Lights Type C         DAY         400.000         600.000           643.0900         Traffic Control Signs         DAY         17,142.000         17,142.000           643.0900         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.1050         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.1050         Traffic Control Signs PCMS         DAY         14.000	60 62						
624.0100         Water         MGAL         0.100         0.100           628.1905         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0300         Traffic Control Drums         DAY         600.000         600.000           643.0420         Traffic Control Barricades Type III         DAY         84.000         84.000           643.0705         Traffic Control Warning Lights Type A         DAY         40.000         40.000           643.0705         Traffic Control Warning Lights Type C         DAY         40.000         600.000           643.090         Traffic Control Signs         DAY         17,142.000         71,142.000           643.000         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.1000         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.5000         Traffic Control Signs Fixed Message         BA         1,							
628.1905         Mobilizations Erosion Control         EACH         2.000         2.000           628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0300         Traffic Control Drums         DAY         600.000         600.000           643.0420         Traffic Control Barricades Type III         DAY         84.000         84.000           643.0715         Traffic Control Warning Lights Type A         DAY         140.000         140.000           643.0715         Traffic Control Warning Lights Type C         DAY         17.142.000         17.142.000           643.0920         Traffic Control Signs         DAY         17.142.000         17.142.000           643.1020         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.1050         Traffic Control Signs PCMS         DAY         14.000         1.000           643.5000         Traffic Control Signs PCMS         DAY         1.745.000         1.745.000           646.4520         Marking Line Same Day Epoxy 4-Inch	64						
628.1910         Mobilizations Emergency Erosion Control         EACH         2.000         2.000           628.7010         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0300         Traffic Control Drums         DAY         600.000         600.000           643.0420         Traffic Control Barricades Type III         DAY         84.000         84.000           643.0705         Traffic Control Warning Lights Type A         DAY         140.000         600.000           643.0715         Traffic Control Warning Lights Type C         DAY         600.000         600.000           643.0920         Traffic Control Signs         DAY         17,142.000         17,142.000           643.1000         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.1001         Traffic Control Signs PCMS         DAY         14.000         14.000           643.5001         Traffic Control Signs PCMS         DAY         14.000         14.000           646.4520         Marking Line Epoxy 4-Inch         EACH         1.000         1.745.000           646.4520         Marking Line Same Day Epoxy 4-Inch         LF </td <td>66</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	66						
628.7010         Inlet Protection Type B         EACH         4.000         4.000           642.5001         Field Office Type B         EACH         1.000         1.000           643.0300         Traffic Control Drums         DAY         600.000         600.000           643.0420         Traffic Control Barricades Type III         DAY         84.000         84.000           643.0705         Traffic Control Warning Lights Type A         DAY         140.000         600.000           643.0715         Traffic Control Warning Lights Type C         DAY         600.000         600.000           643.0900         Traffic Control Signs         DAY         17,142.000         17,142.000           643.0920         Traffic Control Signs Type II         EACH         3.000         3.000           643.1000         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.5000         Traffic Control Signs PCMS         DAY         14.000         14.000           643.5000         Traffic Control         EACH         1.000         1.000           643.5000         Traffic Control         EACH         1.000         1.000           646.4520         Marking Line Same Day Epoxy 4-Inch         LF         1,440.000	68						
642.5001       Field Office Type B       EACH       1.000       1.000         643.0300       Traffic Control Drums       DAY       600.000       600.000         643.0420       Traffic Control Barricades Type III       DAY       84.000       84.000         643.0705       Traffic Control Warning Lights Type A       DAY       140.000       600.000         643.0715       Traffic Control Warning Lights Type C       DAY       600.000       600.000         643.0900       Traffic Control Signs       DAY       17,142.000       17,142.000         643.0920       Traffic Control Covering Signs Type II       EACH       3.000       64.000         643.1000       Traffic Control Signs Fixed Message       SF       64.000       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	70						
643.0300         Traffic Control Drums         DAY         600.000         600.000           643.0420         Traffic Control Barricades Type III         DAY         84.000         84.000           643.0705         Traffic Control Warning Lights Type A         DAY         140.000         140.000           643.0715         Traffic Control Warning Lights Type C         DAY         600.000         600.000           643.0900         Traffic Control Signs         DAY         17,142.000         17,142.000           643.0900         Traffic Control Covering Signs Type II         EACH         3.000         3.000           643.1050         Traffic Control Signs Fixed Message         SF         64.000         64.000           643.5000         Traffic Control Signs PCMS         DAY         14.000         1.000           643.5000         Traffic Control Signs PCMS         EACH         1.000         1.000           643.1050         Marking Line Epoxy 4-Inch         LF         1,745.000         1,745.000           646.1020         Marking Line Same Day Epoxy 4-Inch         LF         1,440.000         1,440.000	2		• •				
643.0420       Traffic Control Barricades Type III       DAY       84.000       84.000         643.0705       Traffic Control Warning Lights Type A       DAY       140.000       140.000         643.0715       Traffic Control Warning Lights Type C       DAY       600.000       600.000         643.0900       Traffic Control Signs       DAY       17,142.000       17,142.000         643.0920       Traffic Control Covering Signs Type II       EACH       3.000       3.000         643.1000       Traffic Control Signs Fixed Message       SF       64.000       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	4						
643.0705       Traffic Control Warning Lights Type A       DAY       140.000       140.000         643.0715       Traffic Control Warning Lights Type C       DAY       600.000       600.000         643.0900       Traffic Control Signs       DAY       17,142.000       17,142.000         643.0920       Traffic Control Covering Signs Type II       EACH       3.000       3.000         643.1000       Traffic Control Signs Fixed Message       SF       64.000       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	76						
643.0715       Traffic Control Warning Lights Type C       DAY       600.000       600.000         643.0900       Traffic Control Signs       DAY       17,142.000       17,142.000         643.0920       Traffic Control Covering Signs Type II       EACH       3.000       3.000         643.1000       Traffic Control Signs Fixed Message       SF       64.000       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	8		* *				
643.0900       Traffic Control Signs       DAY       17,142.000       17,142.000         643.0920       Traffic Control Covering Signs Type II       EACH       3.000       3.000         643.1000       Traffic Control Signs Fixed Message       SF       64.000       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	80		• • • •				
643.0920       Traffic Control Covering Signs Type II       EACH       3.000       3.000         643.1000       Traffic Control Signs Fixed Message       SF       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000         643.5000       Traffic Control       EACH       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000	2						
643.1000       Traffic Control Signs Fixed Message       SF       64.000       64.000         643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	4		•				
643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	6						
643.5000       Traffic Control       EACH       1.000       1.000         646.1020       Marking Line Epoxy 4-Inch       LF       1,745.000       1,745.000         646.4520       Marking Line Same Day Epoxy 4-Inch       LF       1,440.000       1,440.000	38						
646.1020 Marking Line Epoxy 4-Inch LF 1,745.000 1,745.000 646.4520 Marking Line Same Day Epoxy 4-Inch LF 1,440.000 1,440.000	90		=				
646.4520 Marking Line Same Day Epoxy 4-Inch LF 1,440.000 1,440.000	92						
· · · · · · · · · · · · · · · · · · ·	94	646.1020			1,745.000		
646.9000 Marking Removal Line 4-Inch LF 3,185.000 3,185.000	96			LF		1,440.000	
	98	646.9000	Marking Removal Line 4-Inch	LF	3,185.000	3,185.000	

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Line	Item	Item Description	Unit	Total	Qty
0100	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	5,200.000	5,200.000
0102	650.8000	Construction Staking Resurfacing Reference	LF	345.000	345.000
0104	650.9910	Construction Staking Supplemental Control (project) 01. 8180-01-60	LS	1.000	1.000
0106	690.0250	Sawing Concrete	LF	108.000	108.000
0108	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000
0110	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0112	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 587+37	EACH	1.000	1.000
0114	SPV.0060	Special 01. Cleaning and Painting Bearings	EACH	8.000	8.000

# REMOVING FENCE STATION TO STATION LOCATION 586+90 - 587+23 ML RT 591+95 - 592+25 ML RT TOTAL 0010 (1) See structure plans for additional work on fence

### **PAVEMENT REMOVAL**

				REMOVING	REMOVING	REMOVING
				CONCRETE	ASPHALTIC	ASPHALTIC
				PAVEMENT	SURFACE	SURFACE MILLING
				204.0100	204.0110	204.0120
STATION	TO	STATION	LOCATION	SY	SY	SY
585+80	-	587+15	ML			540
587+00	-	587+35	ML	77	14	
591+80	-	592+00	ML	54	28	
592+00	-	593+70	ML			680
			TOTAL 0010	131	50	1,220

#### **EXCAVATION COMMON**

			205.0100	
STATION TO	STATION	LOCATION	CY	REMARKS
587+15 -	587+35	ML	5	AS NEEDED TO COMPLETE CONCRETE APPROACHES,
591+80 -	592+00	ML	5	SURFACE DRAINS, PAVEMENT, AND CURB & GUTTER
		TOTAL 0010	10	•

### FINISHING ROADWAY (PROJECT) (01. 8180-01-60)

(1) 204.0170

LF

33

30

63

			213.0100.01
TO	STATION	LOCATION	EACH
	504.50	DDO JECT	
-	594+50	PROJECT	1
		TOTAL 0010	1
	TO -	TO STATION - 594+50	- 594+50 PROJECT

#### BASE AGGREGATE DENSE 1 1/4-INCH

				305.0120	
STATION	TO	STATION	LOCATION	TON	REMARKS
587+15	-	587+35	ML	5	AS NEEDED TO MATCH EXISTING GRADING
591+80	-	592+00	ML	5	AS NEEDED TO MATCH EXISTING GRADING
			_		
			TOTAL 0010	10	

#### **CONCRETE**

			CONCRETE PAVEMENT 6-INCH	CONCRETE PAVEMENT APPROACH SLAB	CONCRETE SURFACE DRAINS
STATION TO	STATION	LOCATION	415.0060 SY	415.0410 SY	416.1010 CY
317(11011 10	317(11011	LOCKHON	31	31	CI
587+00 -	587+35	ML SOUTH		40	7
591+80 -	591+95	ML NORTH	20	40	
		TOTAL 0010	20	80	7

#### <u>ASPHALT</u>

STATION	ТО	STATION	LOCATION	TACK COAT 455.0605 GAL	ASPHALTIC SURFACE 465.0105 TON	REMARKS
585+80	-	587+15	ML	42	66	2-INCH LAYER
587+15	-	587+20	ML	2	5	6.5-INCH LAYER IN 3 LIFTS
591+95	-	592+00	ML	3	8	6.5-INCH LAYER IN 3 LIFTS
592+00	-	593+70	ML	48	76	2-INCH LAYER
			TOTAL 0010	95	155	

HWY: STH 27 SHEET: Ε PROJECT NO: 8180-01-60 COUNTY: RUSK MISCELLANEOUS QUANTITIES

FILE NAME: N:\PDS\...\030200\_mq.pptx PLOT DATE: June 14, 1911 PLOT BY: A.R.H. PLOT NAME : PLOT SCALE: 1:1

586+30 - 594+00 586+30 - 594+00	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED 603.8000 603.8125 CATION LF ML 920 920 ML 270 ML 270 ML 920 1,190 ML 920 AL 0010 1,190 3,030		<u>STATION</u> 587+05 587+19 589+23 589+23	OFFSET LOCATION  16 RT 16 LT 16 RT	SALVAGED INLI INLET COVERS 611.9710 EACH  1 1 1 1	ET PROTECTION TYPE B 628.7010 EACH  1 1 1 1	
FENCE CHAIN LIN  STATION TO STATION LOCATION  586+90 - 587+23 ML RT  591+95 - 592+25 ML RT  TOTAL 00  (1) See structure plans for additional quar	(1) 616.0204 N LF 33 30 10 63	ADJUSTING STEEL PLATE BEA   614.0400   STATION   TO   STATION   LOCATION   LF	M GUARD  REMARKS  ADJUST RAIL AS NEEDED TO COMPLETE CONTRACT WORK			ION LOCATION E	0100.01 EACH 1
<u>WATER</u> <u>STATION TO STATION LOCATION</u> 585+80 - 593+70 ML  TOTAL C		EROSION CONTROL MOBILIZA  EROSION CONTROL MO	ATIONS MOBILIZATIONS ON EMERGENCY ROL EROSION CONTROL 905 628.1910 H EACH		<u>FIEI</u> <u>STATION TO STAT</u> 587+80 - 593+	TION LOCATION E	2.5001 EACH 1
PROJECT NO: 8180-01-60	HWY: STH 27	COUNTY: RUSK	MISCELLANEOUS QUAN			SH	EET: E

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

SIGN GROUP#	LAYOUT	SIGN CODE	DESCRIPTION	643.0900 DAY	REMARKS
D1	1.1	W/12 F2	MAN MIDTH O	60	NIM OF LIGHT OF THE 27 INT
D1	L1	W12-52 WO57-52	MAX WIDTH 9' 1 MILES AHEAD	60 60	NW OF USH 8/STH 27 INT.
D2	L1	M4-4	TRUCK	60	NW OF USH 8/STH 27 INT.
DZ	LI	M3-3	SOUTH	60	1444 OF 03116/311127 INT.
		M1-6	STH 27	60	
		W20-2A	DETOUR AHEAD	60	
D3	L1	M4-4	TRUCK	60	NW OF USH 8/STH 27 INT.
55		M4-8	DETOUR	60	3. 33 3,3 2,
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO5-1L	LEFT TURN ARROW	60	
D4	L1	M4-4	TRUCK	60	NW OF USH 8/STH 27 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO6-1	LEFT ARROW	60	
D5		M3-3	SOUTH	60	SW OF USH 8/STH 27 INT.
		M1-6	STH 27	60	
		W12-52	MAX WIDTH 9'	60	
D6	L1	M4-4	TRUCK	60	SW OF USH 8/STH 27 INT.
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		W20-2A	DETOUR AHEAD	60	
D7	L1	M4-4	TRUCK	60	SW OF USH 8/STH 27 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO6-1	UP ARROW	60	
D8	L1	M4-4	TRUCK	60	SW OF USH 8/STH 27 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO6-1	UP ARROW	60	05.05.1101.07071.07.117
D9	L1	M4-4	TRUCK	60	SE OF USH 8/STH 27 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
D10	1.1	M1-6	STH 27	60	CALOE LAVE AVE E /E 2DD CT C INT
D10	L1	M4-4	TRUCK	60	SW OF LAKE AVE E./E. 3RD ST S. INT.
		M4-8	DETOUR SOUTH	60	
		M3-3 M1-6	STH 27	60 60	
		MO6-1	LEFT ARROW	60	
D11	L1	M4-4	TRUCK	60	NE OF LAKE AVE E./E. 3RD ST S. INT.
DII	LI	M4-8	DETOUR	60	INE OF LAKE AVE E./E. SIND ST S. HVT.
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO6-1	LEFT ARROW	60	
			SECTION TOTAL	2,820	

SIGN				643.0900	
GROUP#	LAYOUT	SIGN CODE	DESCRIPTION	DAY	REMARKS
D12	L1	M4-4	TRUCK	60	NE OF LAKE AVE E./E. 3RD ST S. INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
D13	L1	M4-4	TRUCK	60	NW OF LAKE AVE E./E. 3RD ST S. INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO5-1R	RIGHT TURN ARROW	60	
D14	L1	M4-4	TRUCK	60	NW OF LAKE AVE E./E. 3RD ST S. INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO6-1	RIGHT ARROW	60	
D15		M3-3	SOUTH	60	SW OF USH 8/STH 27 INT.
		M1-6	STH 27	60	
		W12-52	MAX WIDTH 9'	60	
D16	L1	M4-8A	END DETOUR	60	NE OF USH 8/STH 27 INT.
		M3-1	NORTH	60	
		M1-6	STH 27	60	
D17	L2	M4-4	TRUCK	60	SW OF USH 8/STH 73 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO5-1R	RIGHT TURN ARROW	60	
D18	L2	M4-4	TRUCK	60	SW OF USH 8/STH 73 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO6-1	RIGHT ARROW	60	
D19	L2	M4-4	TRUCK	60	SW OF USH 8/STH 73 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
D20	L2	M4-4	TRUCK	60	SE OF USH 8/STH 73 INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO5-1L	LEFT TURN ARROW	60	
D21	L2	M4-4	TRUCK	60	SE OF USH 8/STH 73 INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
B.2.2		MO6-1	LEFT ARROW	60	NE GENON GETTIEF
D22	L2	M4-4	TRUCK	60	NE OF USH 8/STH 73 INT.
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		W20-2A	DETOUR AHEAD	60	

**A** Additional quantities shown on other sheets

HWY: STH 27 SHEET: COUNTY: RUSK Ε PROJECT NO: 8180-01-60 MISCELLANEOUS QUANTITIES

			TRAFFIC CONTROL		
TRAFFIC CONTROL SIGN				<b>A</b> 643.0900	
GROUP#	LAYOUT	SIGN CODE	DESCRIPTION	DAY	REMARKS
0.100	211001	5.511 5552	DEGGIIII TTGTV	5711	TETW THE
D33	L3	M4-4	TRUCK	60	SE OF STH 73/STH 64 INT.
		M4-8	DETOUR	60	·
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO6-1	UP ARROW	60	
D34	L3	M4-4	TRUCK	60	NE OF STH 73/STH 64 INT.
		M4-8	DETOUR	60	· ·
		M3-1	NORTH	60	
		M1-6	STH 27	60	
D35	L4	M4-4	TRUCK	60	NE OF STH 27/STH 64 INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO5-1L	LEFT TURN ARROW	60	
D36	L4	M4-4	TRUCK	60	NE OF STH 27/STH 64 INT.
<i>D</i> 30		M4-8	DETOUR	60	WE OF SITE 27/3111 04 IWT.
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO6-1	LEFT ARROW	60	
D37	L4	M4-8A	END DETOUR	60	NW OF STH 27/STH 64 INT.
D37	L4	M3-3	SOUTH	60	11 V OI 3111 27/3111 04 IIVI.
		M1-6	STH 27	60	
D38	L4	M3-1	NORTH	60	SW OF STH 27/STH 64 INT.
D30	L4	M1-6	STH 27	60	3W OF 31H 27/31H 04 INT.
		W12-52	MAX WIDTH 9'	60	
		W057-52	20 MILES AHEAD	60	
D39	L4	M4-4		60	SW OF STH 27/STH 64 INT.
D39	L4		TRUCK		SW OF STH 27/STH 64 INT.
		M3-1	NORTH	60	
		M1-6	STH 27	60	
D40	1.4	W20-2A	DETOUR AHEAD	60	CALOF CTU 27/CTU CAINT
D40	L4	M4-4	TRUCK	60	SW OF STH 27/STH 64 INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
5.44		MO5-1R	RIGHT TURN ARROW	60	0.44.0.5.074.0.7/074.0.44.47
D41	L4	M4-4	TRUCK	60	SW OF STH 27/STH 64 INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	
		MO6-1	RIGHT ARROW	60	
D42	L4	M4-4	TRUCK	60	SE OF STH 27/STH 64 INT.
		M4-8	DETOUR	60	
		M3-1	NORTH	60	
		M1-6	STH 27	60	

SECTION TOTAL 2,640

Additional quantities shown on other sheets

Ε PROJECT NO: 8180-01-60 HWY: STH 27 COUNTY: RUSK MISCELLANEOUS QUANTITIES SHEET:

PLOT SCALE: 1:1 FILE NAME: N:\PDS\...\030200\_mq.pptx PLOT DATE: June 14, 1911 PLOT BY: A.R.H. PLOT NAME

TRAFFIC CONTROL SIGN				<b>A</b> 643.0900	
GROUP#	LAYOUT	SIGN CODE	DESCRIPTION	DAY	REMARKS
D43	L4	M3-1	NORTH	60	SW OF STH 27/STH 64 INT.
		M1-6	STH 27	60	
		W12-52	MAX WIDTH 9'	60	
D44	L4	M4-4	TRUCK	60	NE OF STH 27/STH 64 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO5-1L	LEFT TURN ARROW	60	
D45	L4	M4-4	TRUCK	60	NE OF STH 27/STH 64 INT.
		M4-8	DETOUR	60	
		M3-3	SOUTH	60	
		M1-6	STH 27	60	
		MO6-1	LEFT ARROW	60	
PROJECT SPECIFIC		M3-1	NORTH	180	SEE DETOUR-OVERVIEW
WIDTH RESTRICTIONS		M3-3	SOUTH	120	
		M1-6	STH 27	300	
		W12-52	MAX WIDTH 9'	300	
REASSURANCES		M4-4	TRUCK	720	REASSURANCES
		M4-8	DETOUR	720	
		M3-1	NORTH	360	
		M3-3	SOUTH	360	
		M1-6	STH 27	720	
			TOTAL 0010	15,720	

<u>MARKING</u>

				MARKING	MARKING LINE	MARKING	
				LINE EPOXY	SAME DAY	REMOVAL	
				4-INCH	EPOXY 4-INCH	LINE 4-INCH	
				646.1020	646.4520	646.9000	
STATION	TO	STATION	LOCATION	LF	LF	LF	REMARKS
584+55	-	594+00	ML LT	945		945	WHITE
584+55	-	594+00	ML CL		1,440	1,440	YELLOW
586+00	-	594+00	ML RT	800		800	WHITE
			TOTAL 0010	1,745	1,440	3,185	

#### CONSTRUCTION STAKING RESURFACING REFERENCE

STATION	TO	STATION	LOCATION	650.8000 LF
585+80	-	587+35	ML	155
591+80	-	593+70	ML	190
			TOTAL 0010	345

### CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 8180-01-60)

			650.9910.01
TO	STATION	LOCATION	LS
-	593+70	ML	1
		TOTAL 0010	1
		TO STATION  - 593+70	

Additional quantities shown on other sheets

SHEET: HWY: STH 27 COUNTY: RUSK MISCELLANEOUS QUANTITIES Ε PROJECT NO: 8180-01-60

FILE NAME: N:\PDS\...\030200\_mq.pptx PLOT DATE: June 14, 1911 PLOT BY: A.R.H. PLOT NAME : PLOT SCALE: 1:1

### TRAFFIC CONTROL SUMMARY

STATION TO STATION	LOCATION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTRO BARRICADES TYP III 643.0420 DAY		IGHTS	TRAFFIC CONTROL WARNING LIGHTS TYPE C 643.0715 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	(1) TRAFFIC CONTROL COVERS SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL SIGNS FIXED MESSAGE 643.1000 SF	TRAFFIC CONTROL SIGNS PCMS 643.1050 DAY	TRAFFIC CONTROL 643.5000 EACH	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH 649.0150 LF	REMARKS
587+80 - 593+70	PROJECT										1		
NORTH OF FLAMBEAU RIV	VER BRIDGE									7			PRIOR TO CONSTRUCTION
SOUTH OF FLAMBEAU RIV	VER BRIDGE									7			PRIOR TO CONSTRUCTION
DOUBLE YELLOW CEN	TERLINE		42	56			28					1,900	STAGE 1
YELLOW LINE ALONG BARR	RIER (NB & SB)		28	56			14					1,400	STAGE 2
DOUBLE YELLOW CEN	TERLINE		14	28								1,900	STAGE 3
587+80 - 593+70	PROJECT	600				600	900	3	64				ALL STAGES (SEE TRAFFIC CONTROL SHEETS)
	PROJECT						480						ALL STAGES (SEE TRAFFIC CONTROL SHEETS FOR SDD REFERENCES)
	TOTAL 0010	600	84	140		600	1,422	3	64	14	1	5,200	

(1) One cycle of covering signs required.

Additional quantities shown on other sheets

#### SAWING CONCRETE

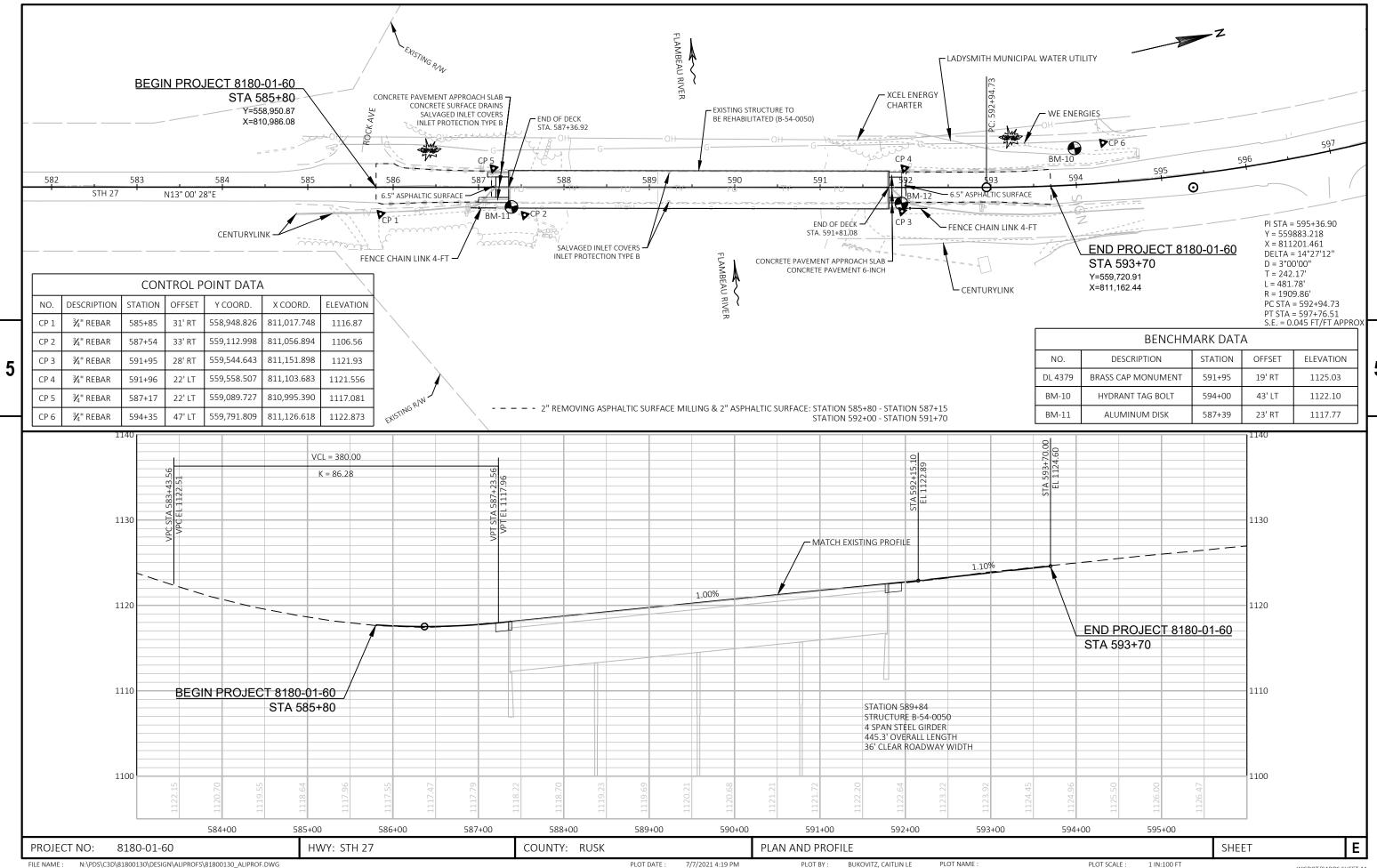
				690.0250	
STATION	TO	STATION	LOCATION	LF	REMARKS
587+00	-	587+35	ML	84	AS NEEDED TO REMOVE EXISTING CONCRETE APPROACHES
591+80	-	591+80	ML	24	AND OTHER CONCRETE ITEMS UNDER STAGING
			_		_
			TOTAL 0010	108	-

#### INSTALLING AND MAINTAINING BIRD DETERRENT

				999.2000.S
STATION	TO	STATION	LOCATION	EACH
587+80	-	593+70	ML	1
			TOTAL 0010	1

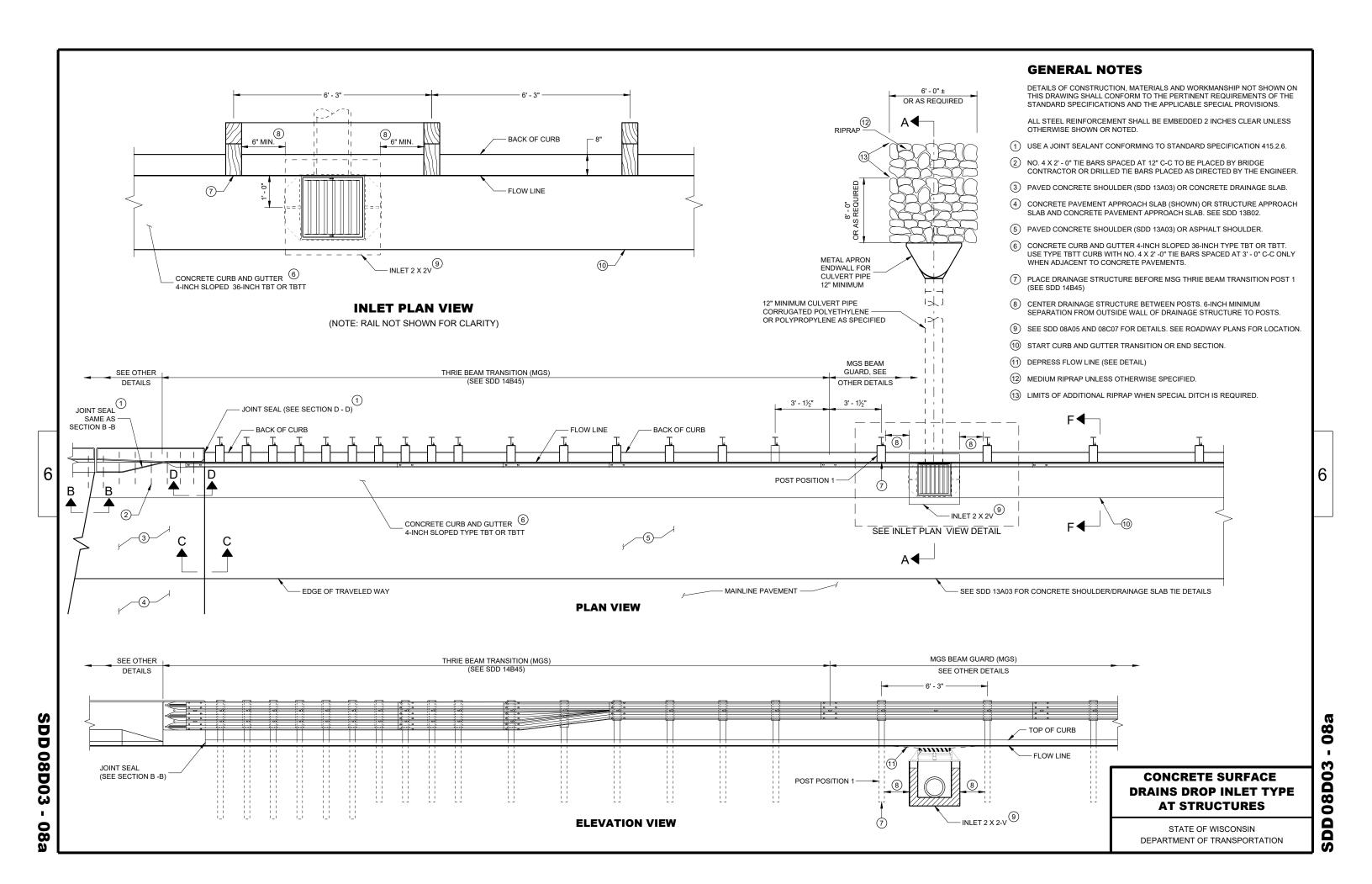
SHEET: HWY: STH 27 COUNTY: RUSK Ε PROJECT NO: 8180-01-60 MISCELLANEOUS QUANTITIES

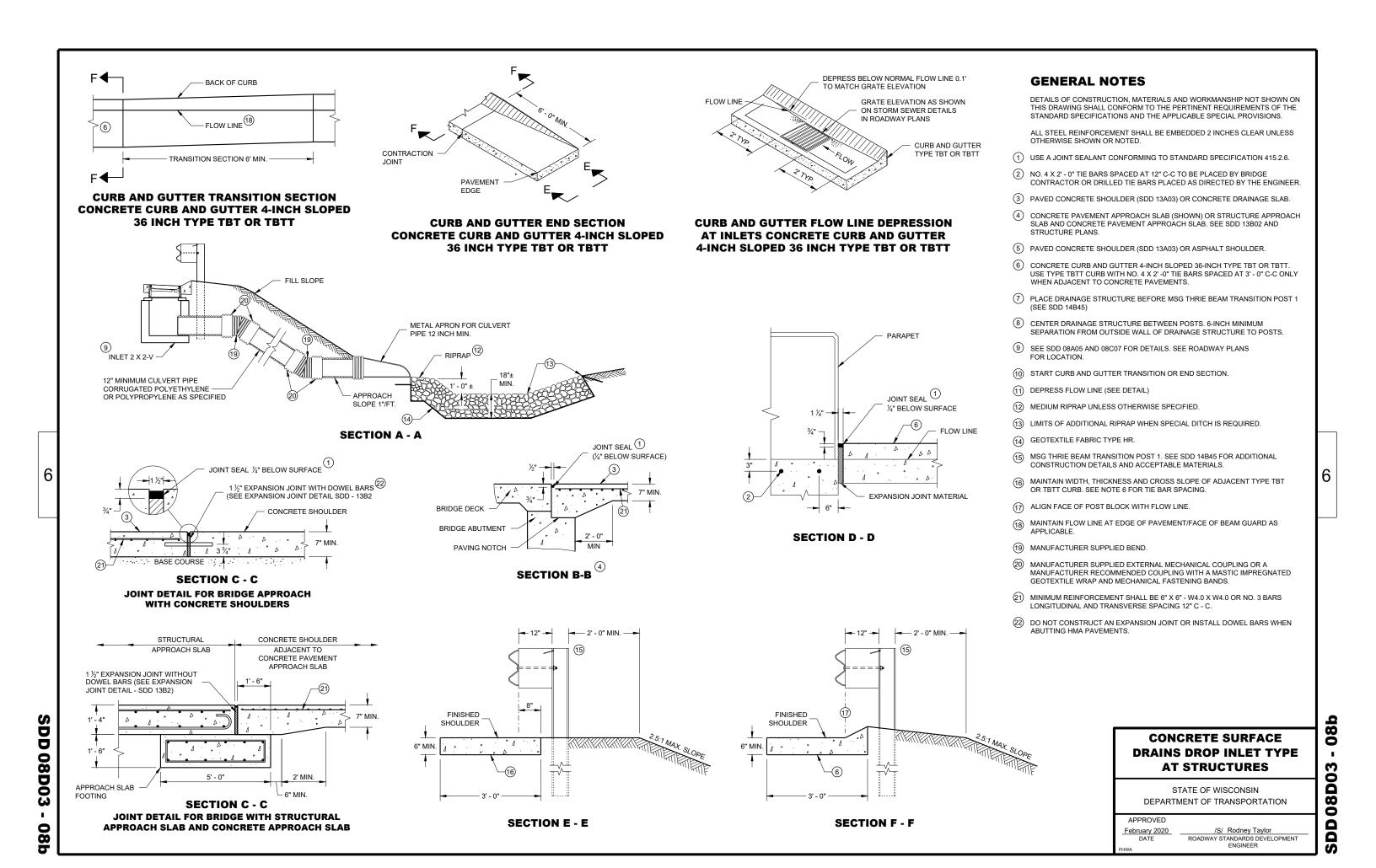
FILE NAME: N:\PDS\...\030200\_mq.pptx PLOT DATE: June 14, 1911 PLOT BY: A.R.H. PLOT NAME : PLOT SCALE: 1:1

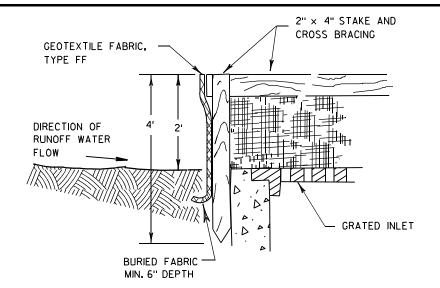


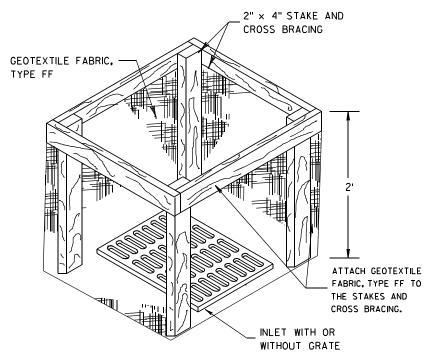
# Standard Detail Drawing List

08D03-08A	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D03-08B	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY









#### INLET PROTECTION, TYPE A

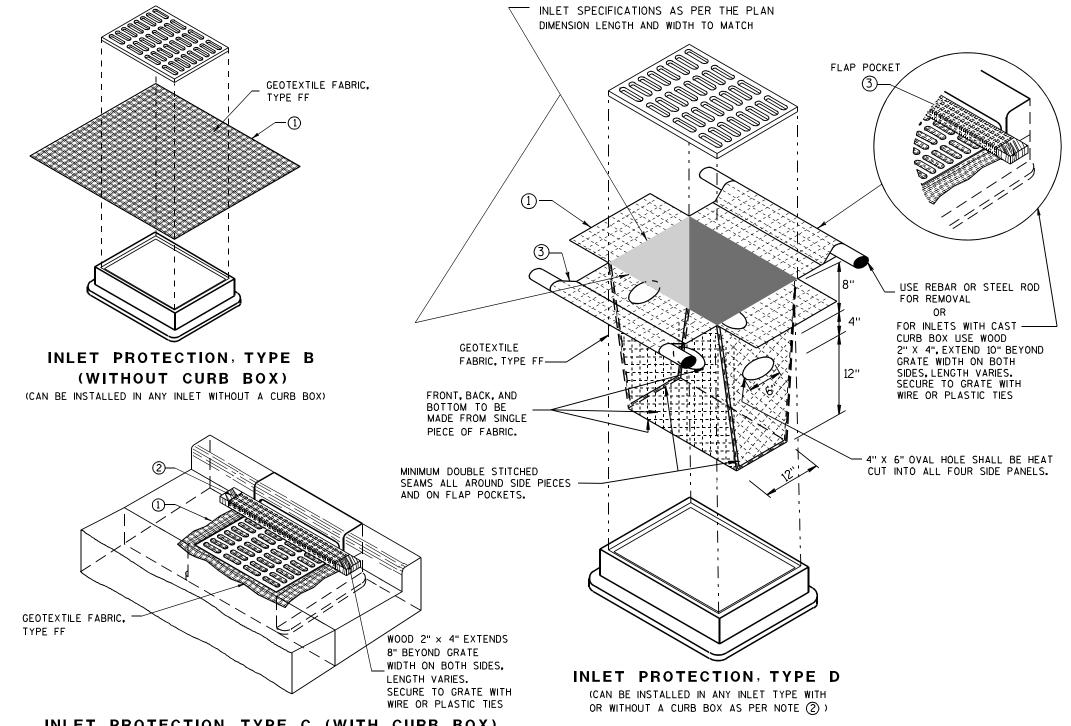
#### **GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



#### INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **INSTALLATION NOTES**

#### TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

#### TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

#### INLET PROTECTION TYPE A, B, C, AND D

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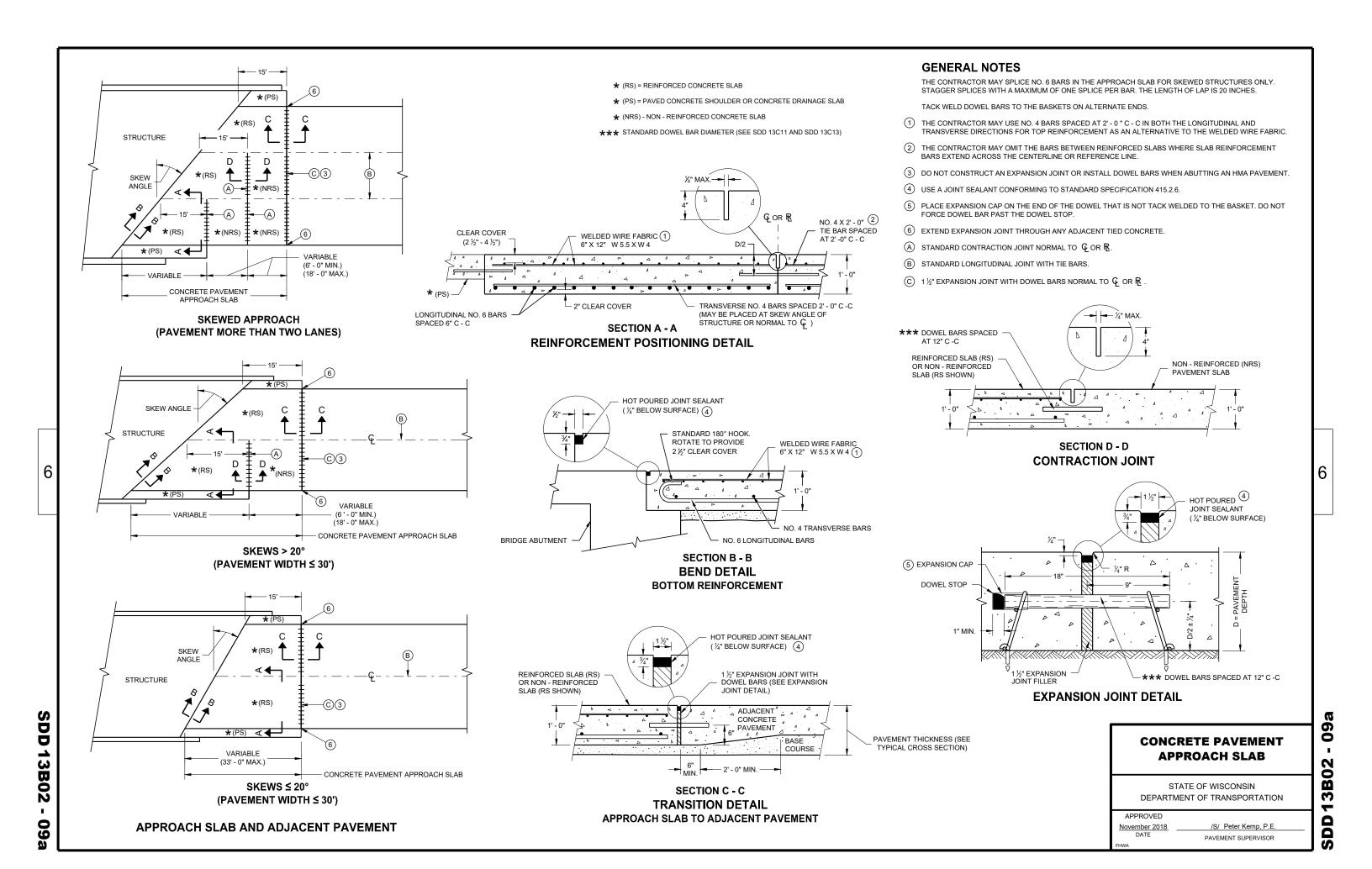
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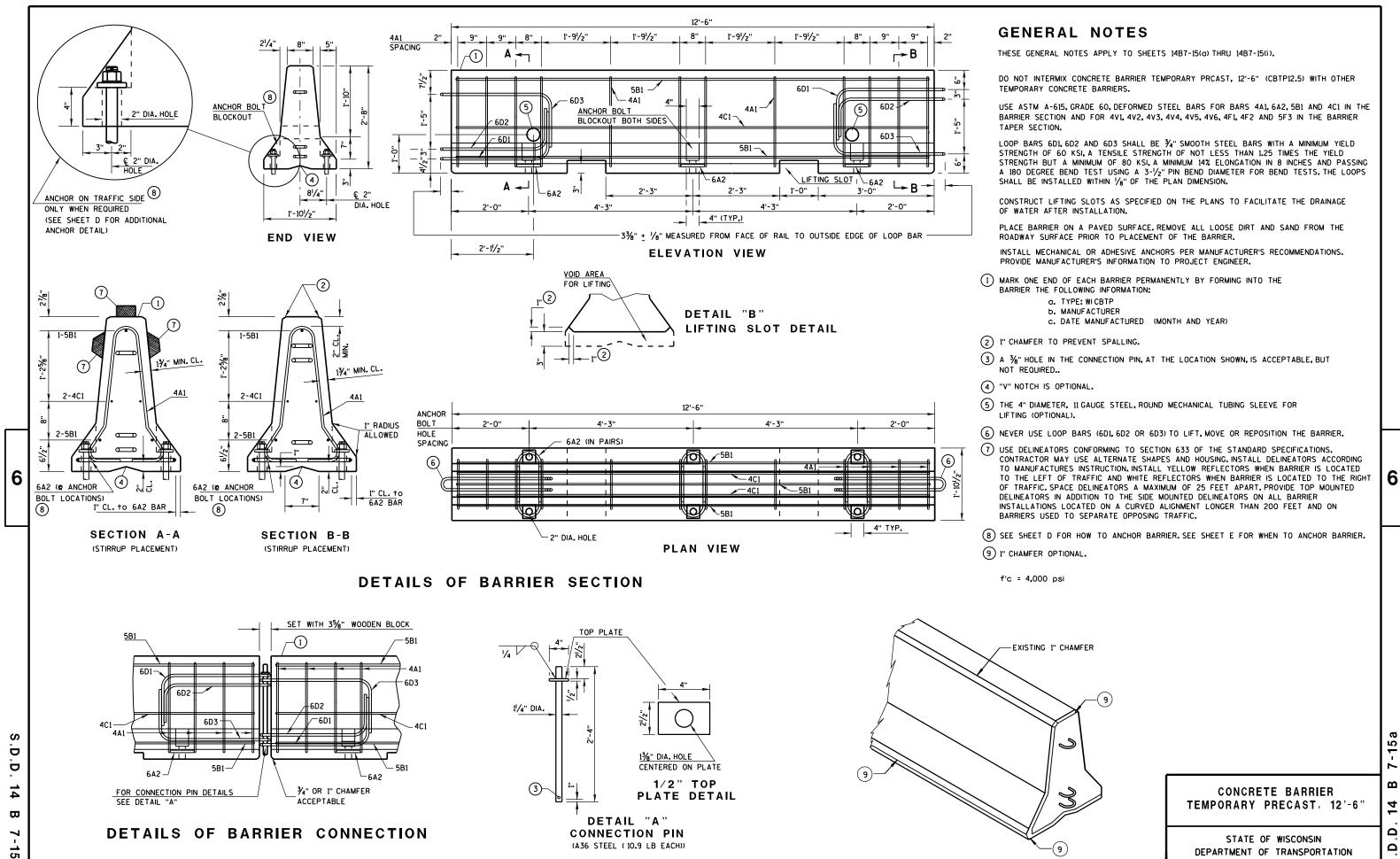
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

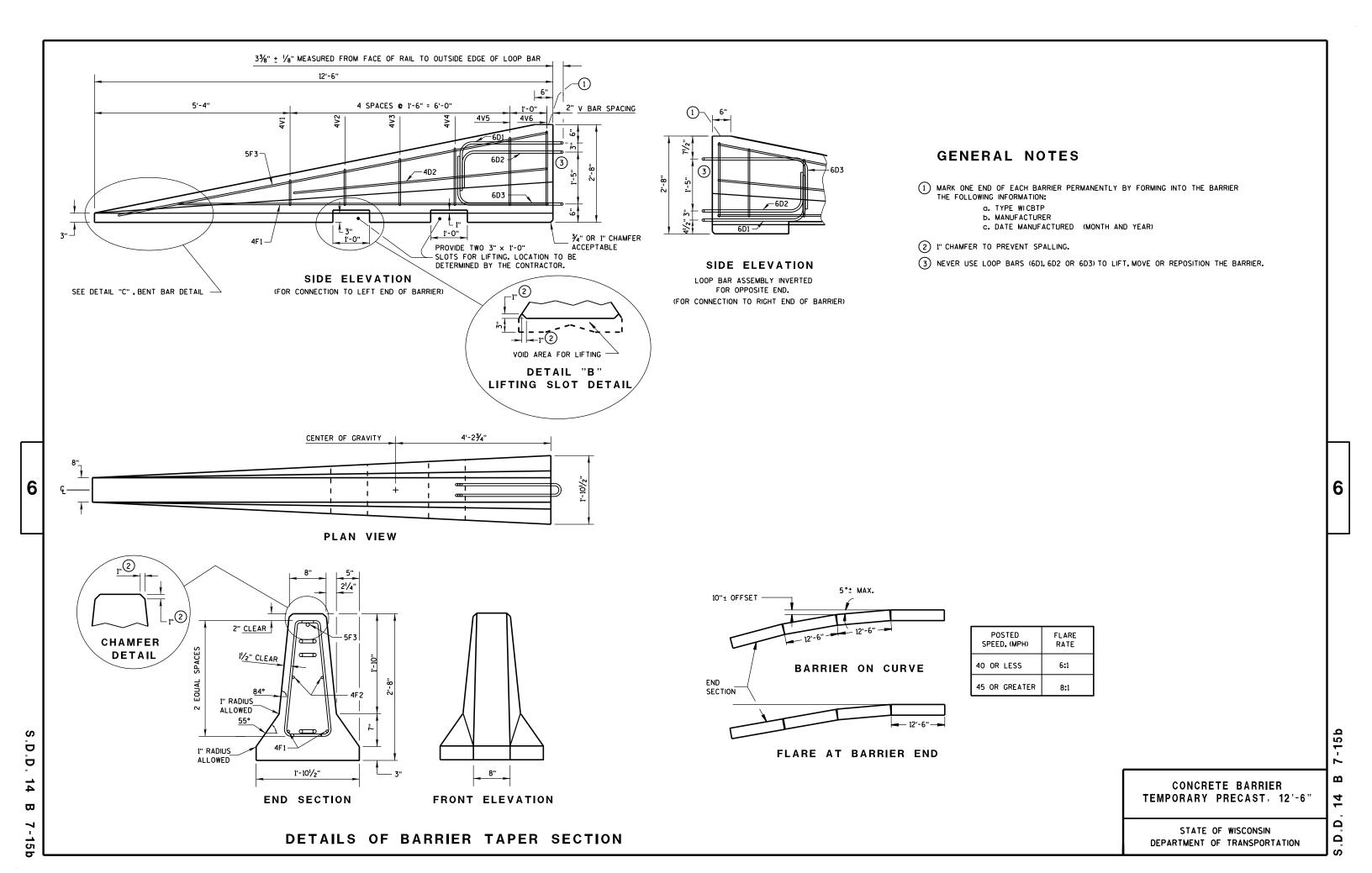
10/16/02





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DEPARTMENT OF TRANSPORTATION

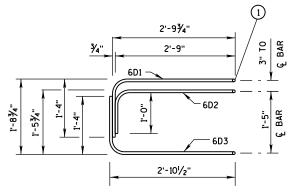


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

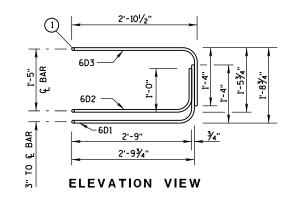
# BARRIER TAPER SECTION BILL OF MATERIALS

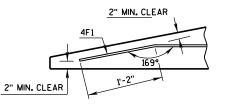
(PER 12'-6" BARRIER TAPER SECTION)

WEN IE O BANNEN TALEN SECTION							
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4V1	4	2	1'-11"				
4V2	4	2	2'-2"				
4٧3	4	2	2'-6"				
4V4	4	2	2'-9"				
4V5	4	2	3'-2"				
4V6	4	2	3'-4"				
4F1	4	2	12'-0"				
4F2	4	2	7'-6"				
5F3	5	1	11'-9"				
LOOP ASSEMBLY							
6D1	6	1	8'-5"				
6D2	6	1	7'-7"				
6D3	6	1	8'-6"				
· · · · · · · · · · · · · · · · · · ·	•	<u> </u>	•				

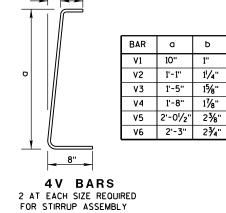








DETAIL "C" BENT BAR DETAIL



PLAN VIEW
LOOP BAR ASSEMBLY

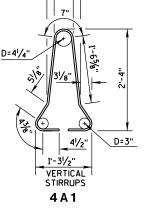
(MARKED END SHOWN, INVERT FOR OTHER END)

BARRIER SECTION

BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

LENGTH



6

7-15c

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14

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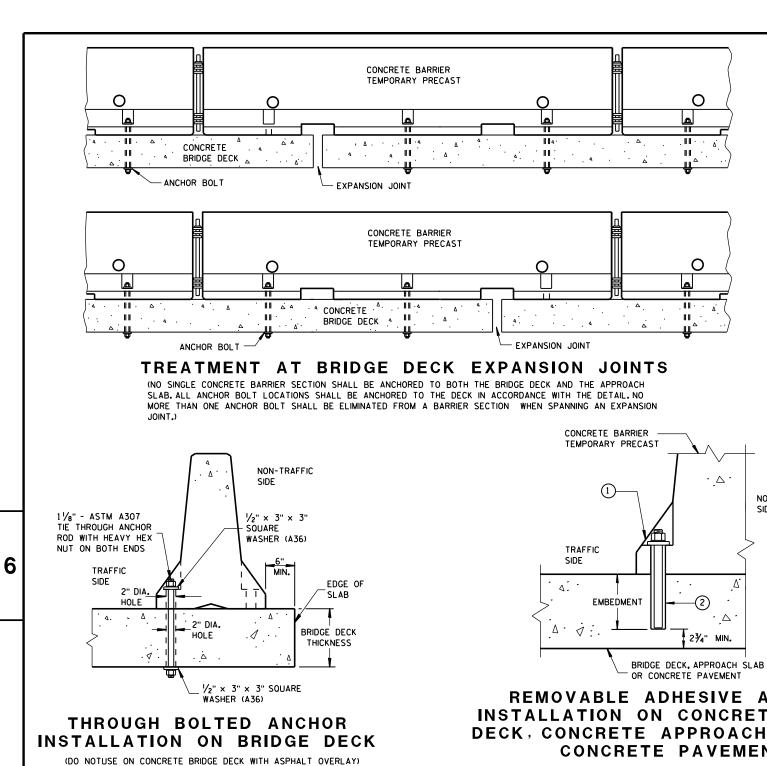
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TAPER BARRIER SECTION

**BARRIER SECTION** 

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



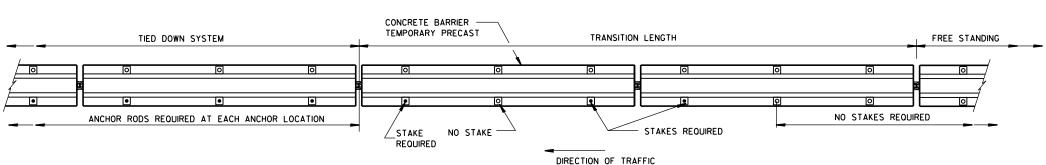
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### REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



**PLAN VIEW** 

#### FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

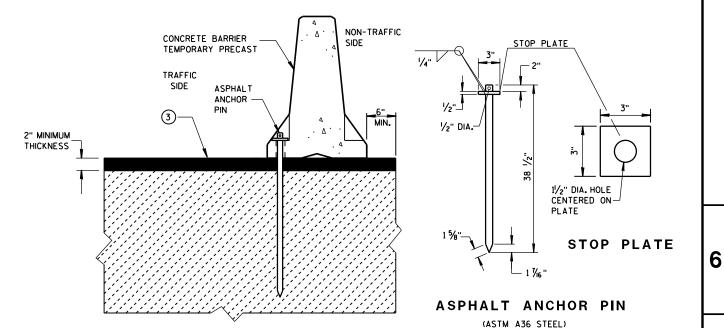
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

#### GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

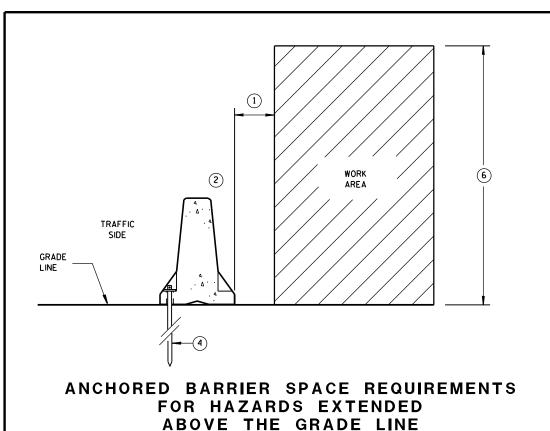
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.

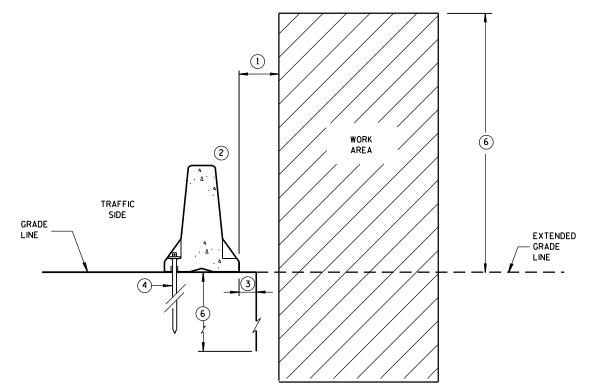


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE** 

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d  $\mathbf{\omega}$ Ω

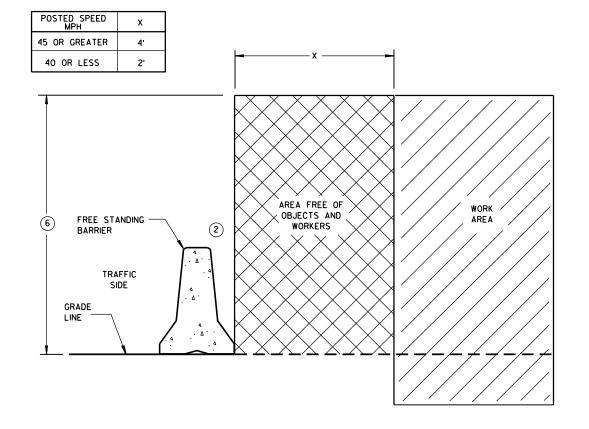


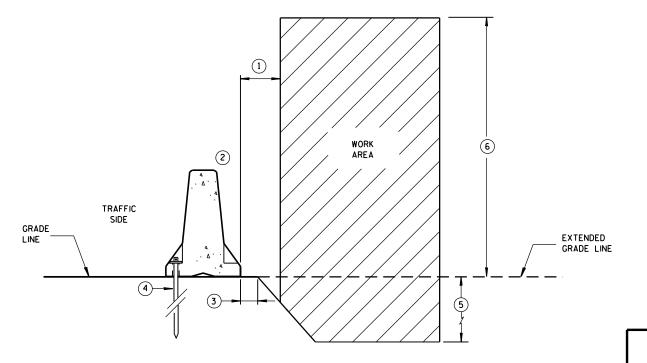


**GENERAL NOTES** 

- 1) WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR
- 2 OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- 4 SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS





FREE STANDING BARRIER SPACE REQUIREMENTS

ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

**CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

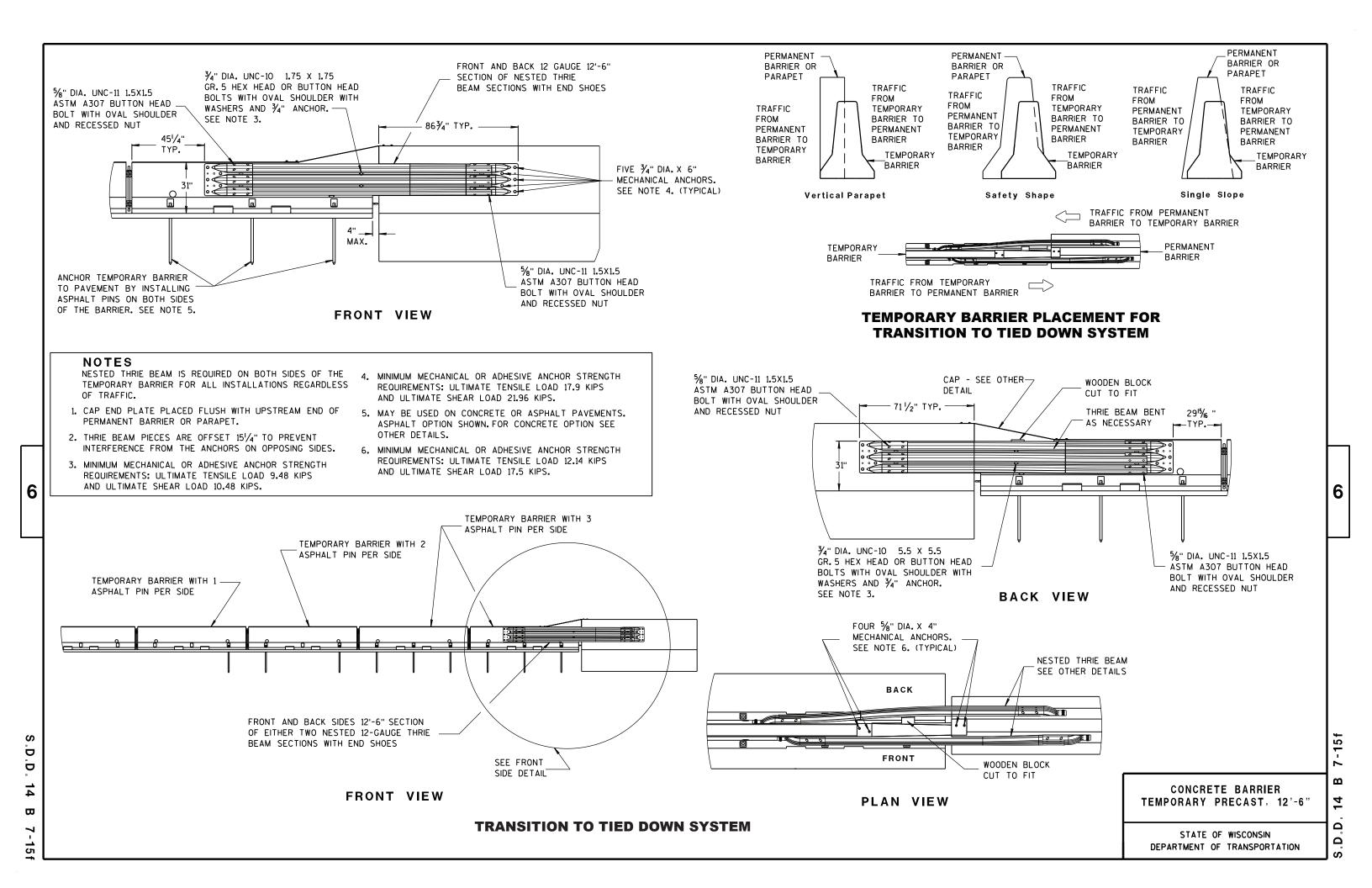
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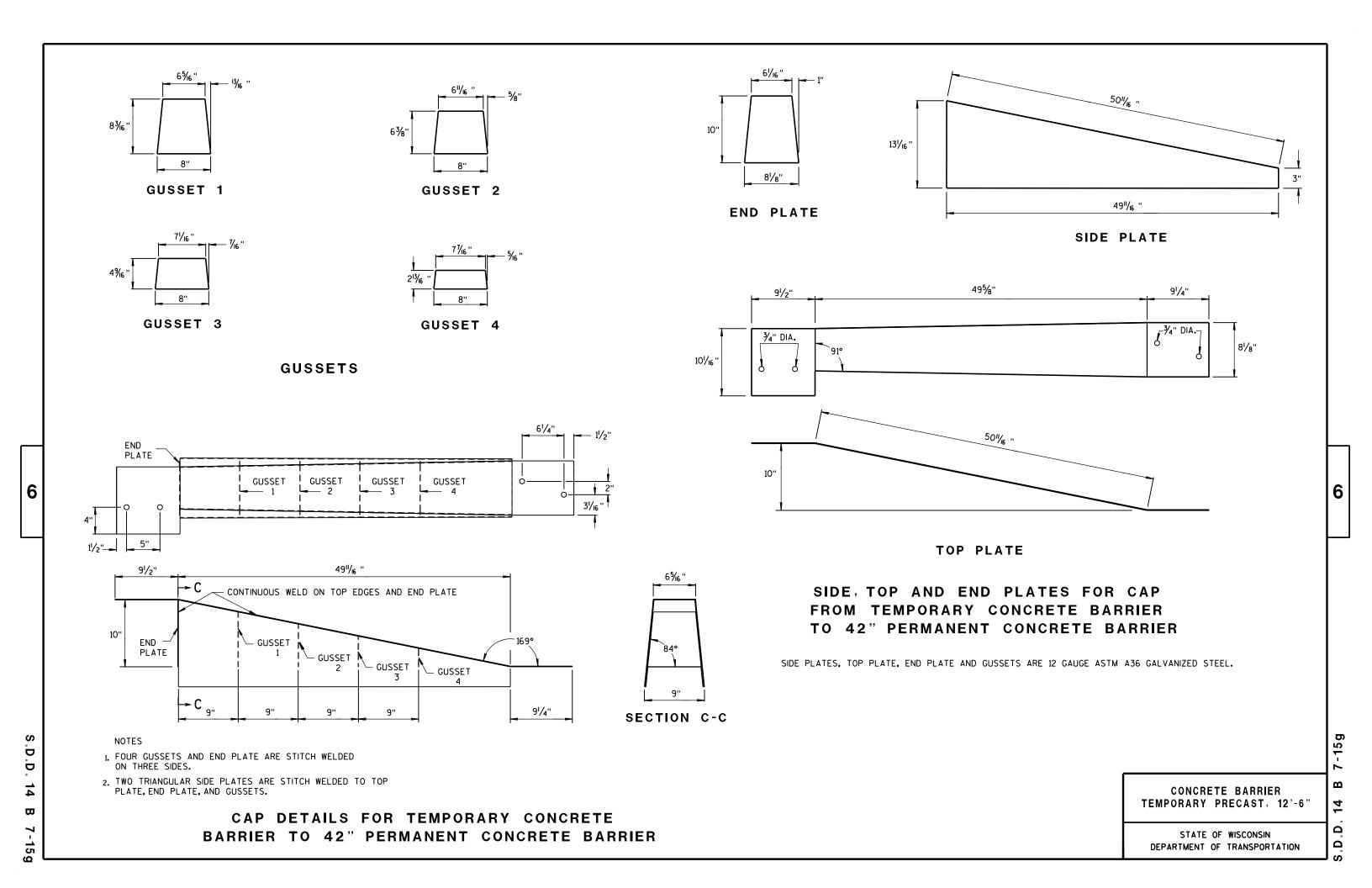
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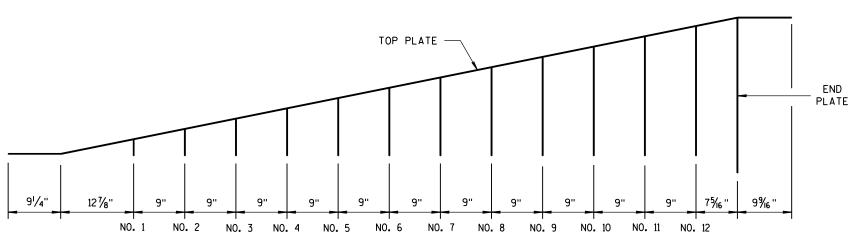
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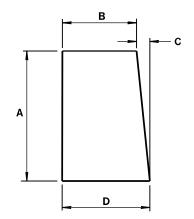




**GUSSET LOCATION** 

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS								
GUSSET NO.	A	В	С	D				
1	21/8"	73/4"	1/4"	8				
2	4"/16 "	7% "	1/2"	8				
3	61/2"	73/8"	11/16 ''	8½ <sub>6</sub> "				
4	85//6"	73/16"	7∕8"	8½ <sub>6</sub> "				
5	101/8"	7"	1 ½ <sub>6</sub> "	81/16"				
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> // <sub>6</sub> "	1 1/4"	81/16 "				
7	13¾"	65%"	1 1/6"	81/16"				
8	15% "	6 ½ "	1 % "	8½ <sub>6</sub> "				
9	173/8"	61/4"	1 <sup>13</sup> / <sub>16</sub> ''	8½6"				
10	19¾ "	6½ <sub>6</sub> "	1 15/16 "	81/16 "				
11	21"	5 1/8"	23/6"	81/16"				
12	22 <sup>13</sup> / <sub>16</sub> "	5"/ <sub>16</sub> "	25/6"	81/16"				

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

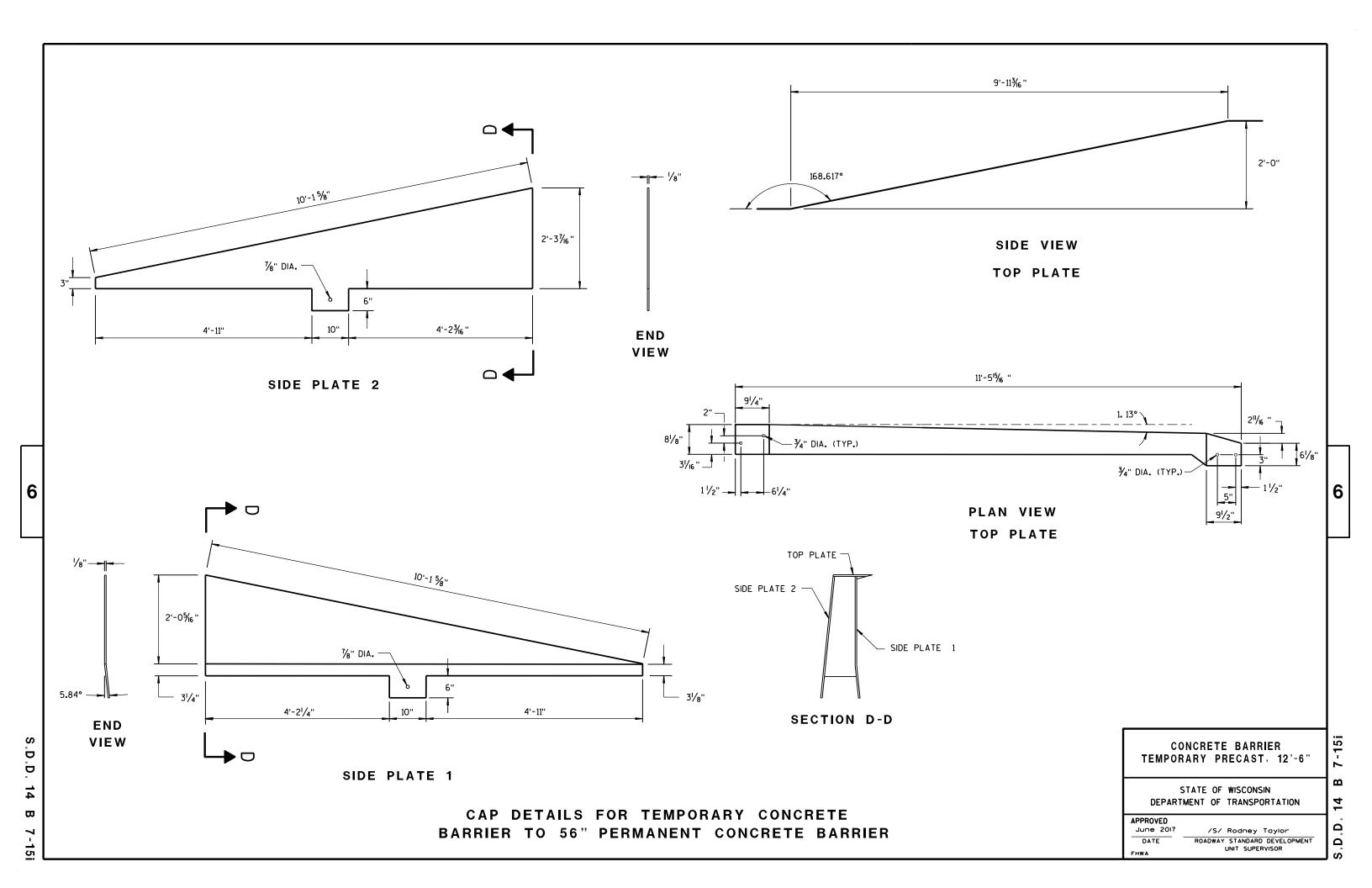
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

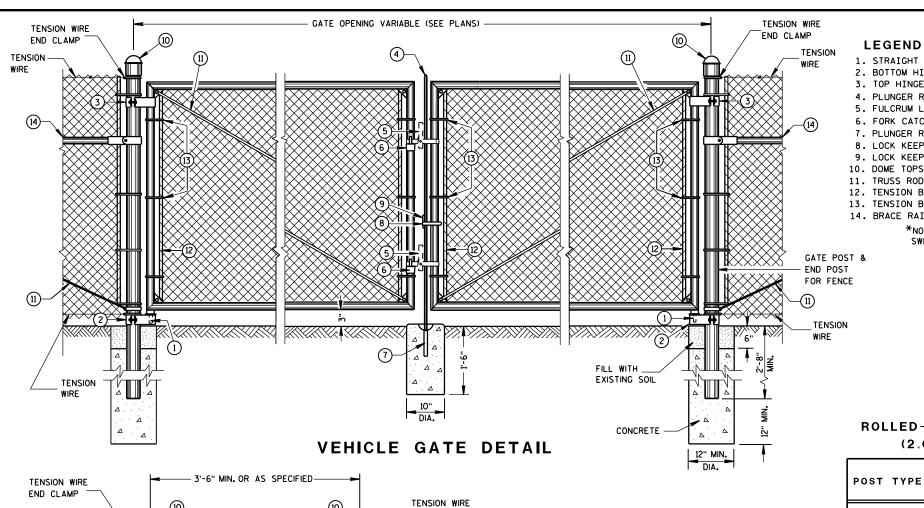
7-15h

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DEPARTMENT OF TRANSPORTATION





END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

**TENSION** 

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

6

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#### REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
LINE POSTS	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EOUAL TO 8 FT.	FS3

#### **BRACE RAIL TYPES**

USE	TYPE
BRACE RAIL	SP1 OR FS1

\*\* INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH \*
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS
- 12. TENSION BAR
- 13. TENSION BANDS 14. BRACE RAIL

\*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

#### **GENERAL NOTES**

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

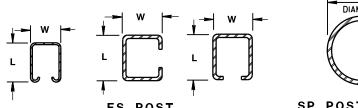
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

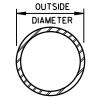
FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.





SP POST & RAIL

#### CROSS SECTIONS OF POSTS AND RAILS

### **ROLLED-FORMED STEEL FENCE POST** (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

#### **ROUND STEEL FENCE POST** (1.8 OZ./SQ. FT. COATING)

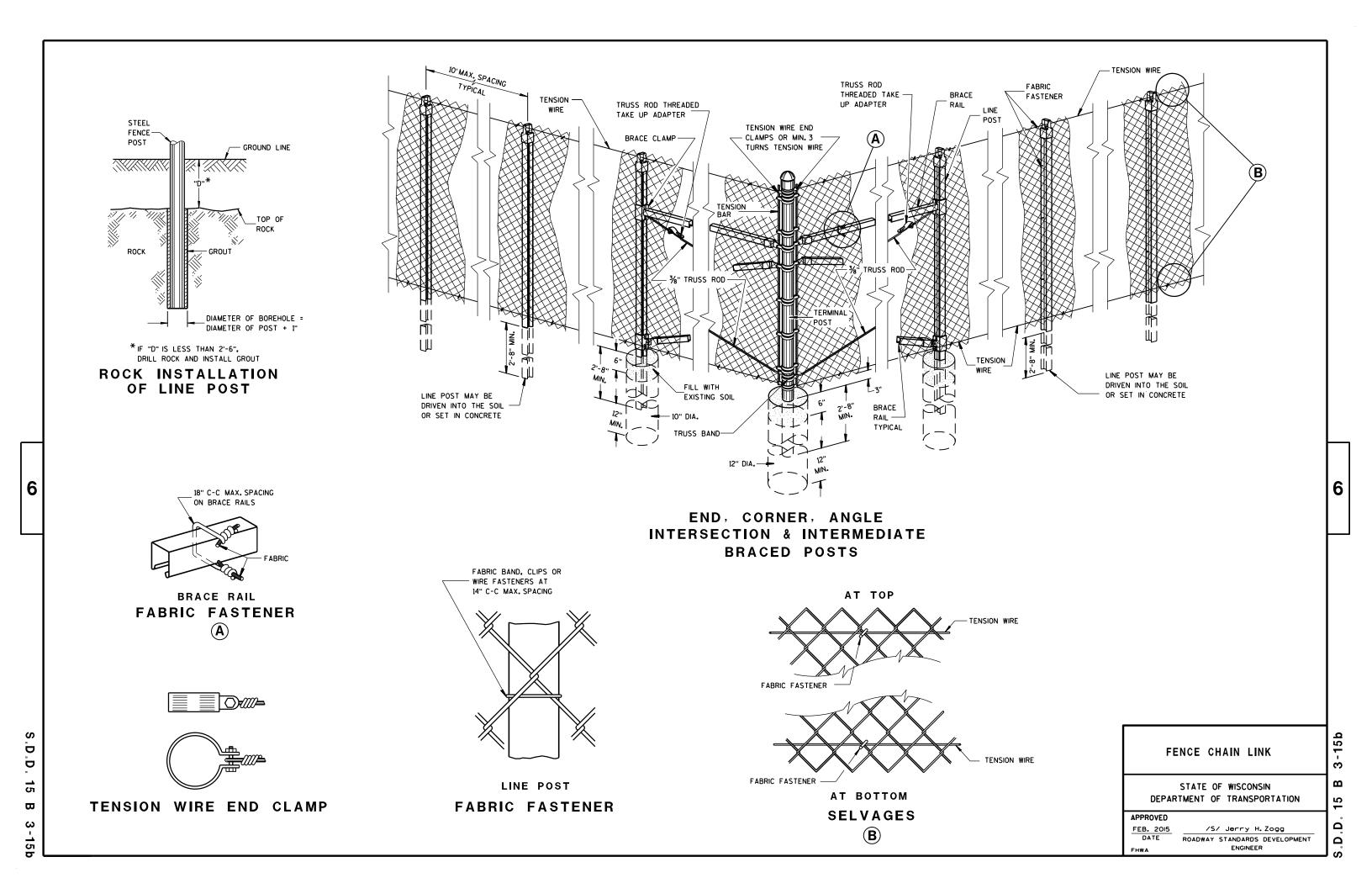
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

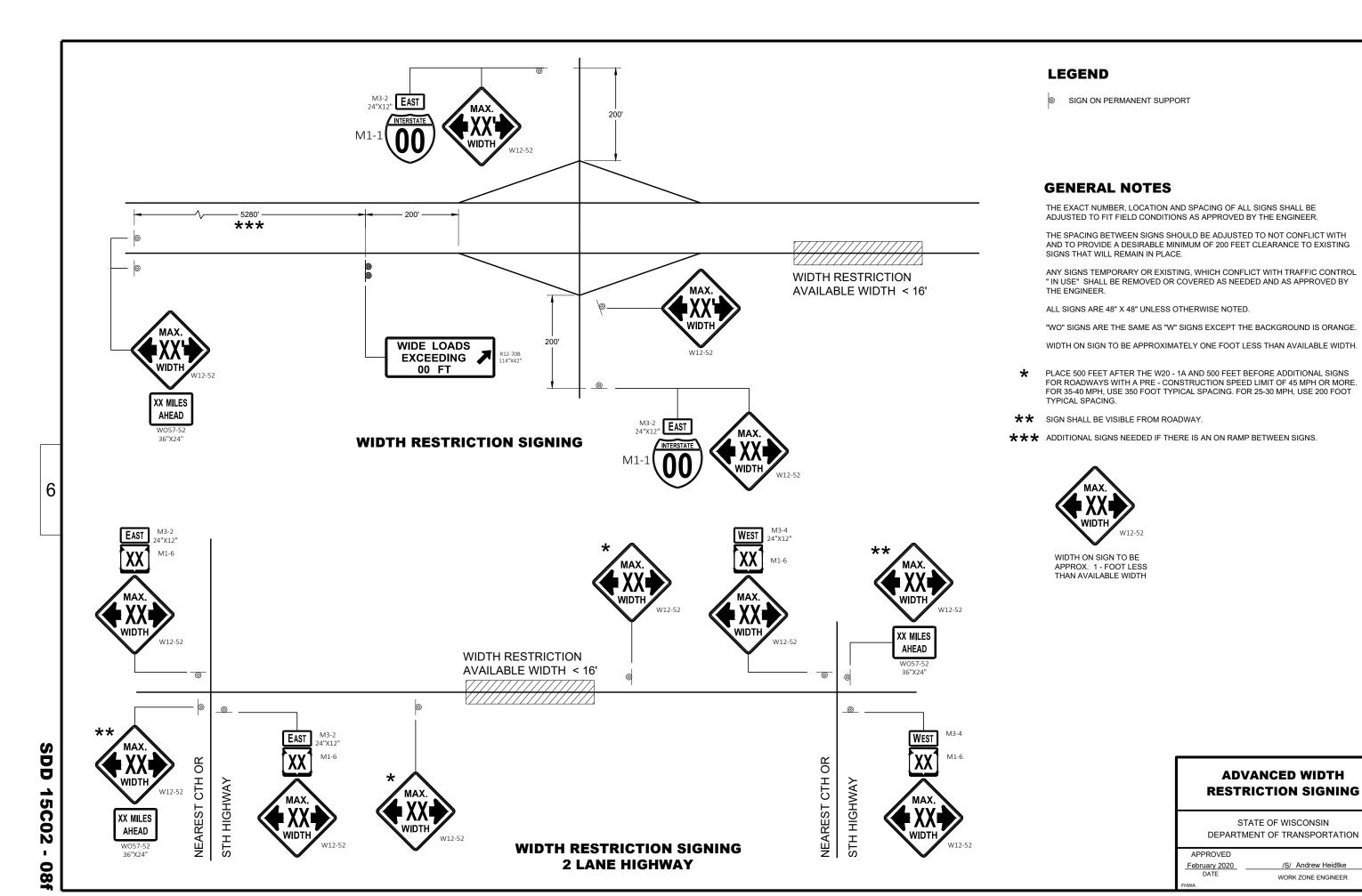
#### REQUIRED POST SIZE FOR GATES

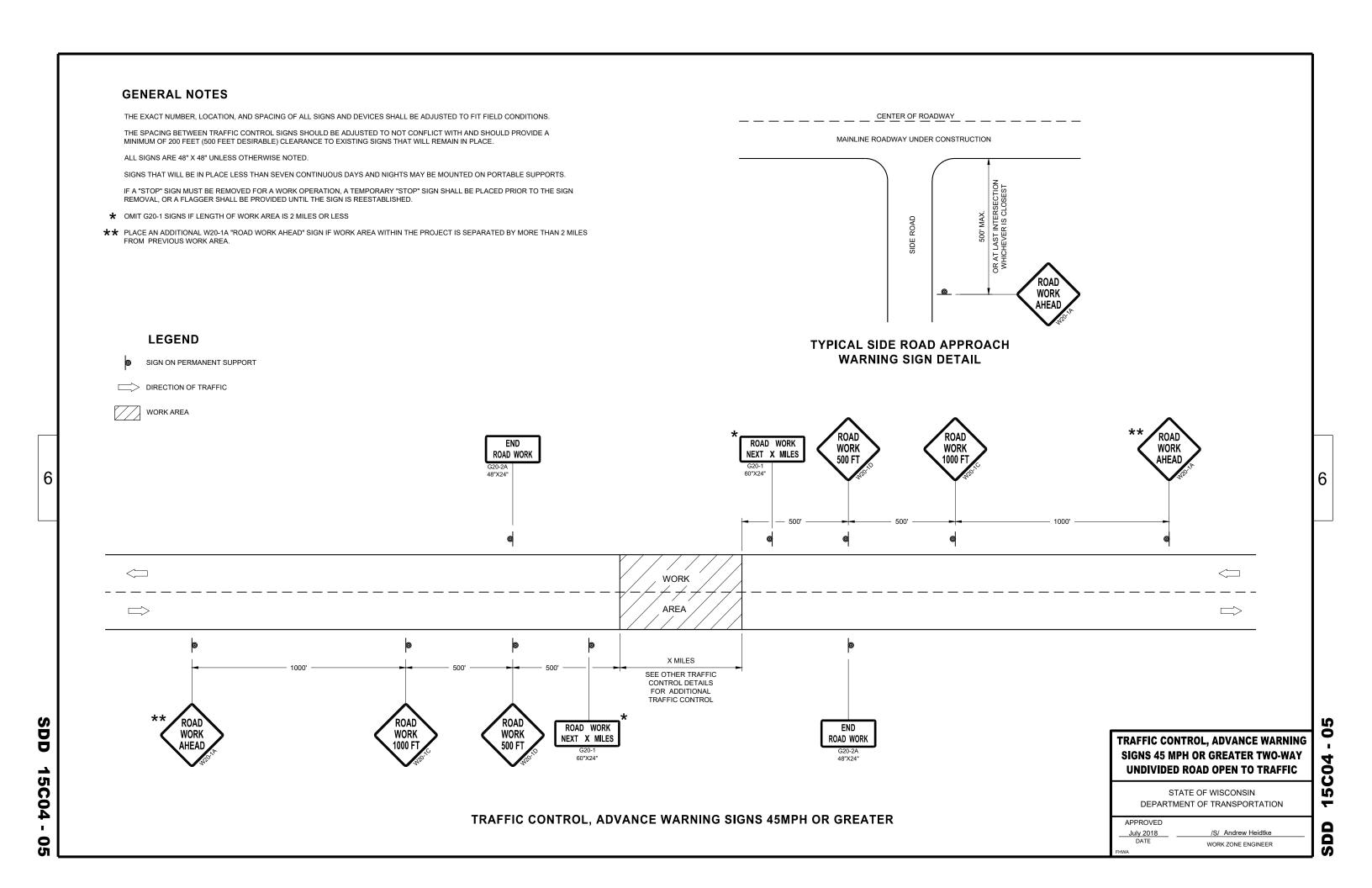
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

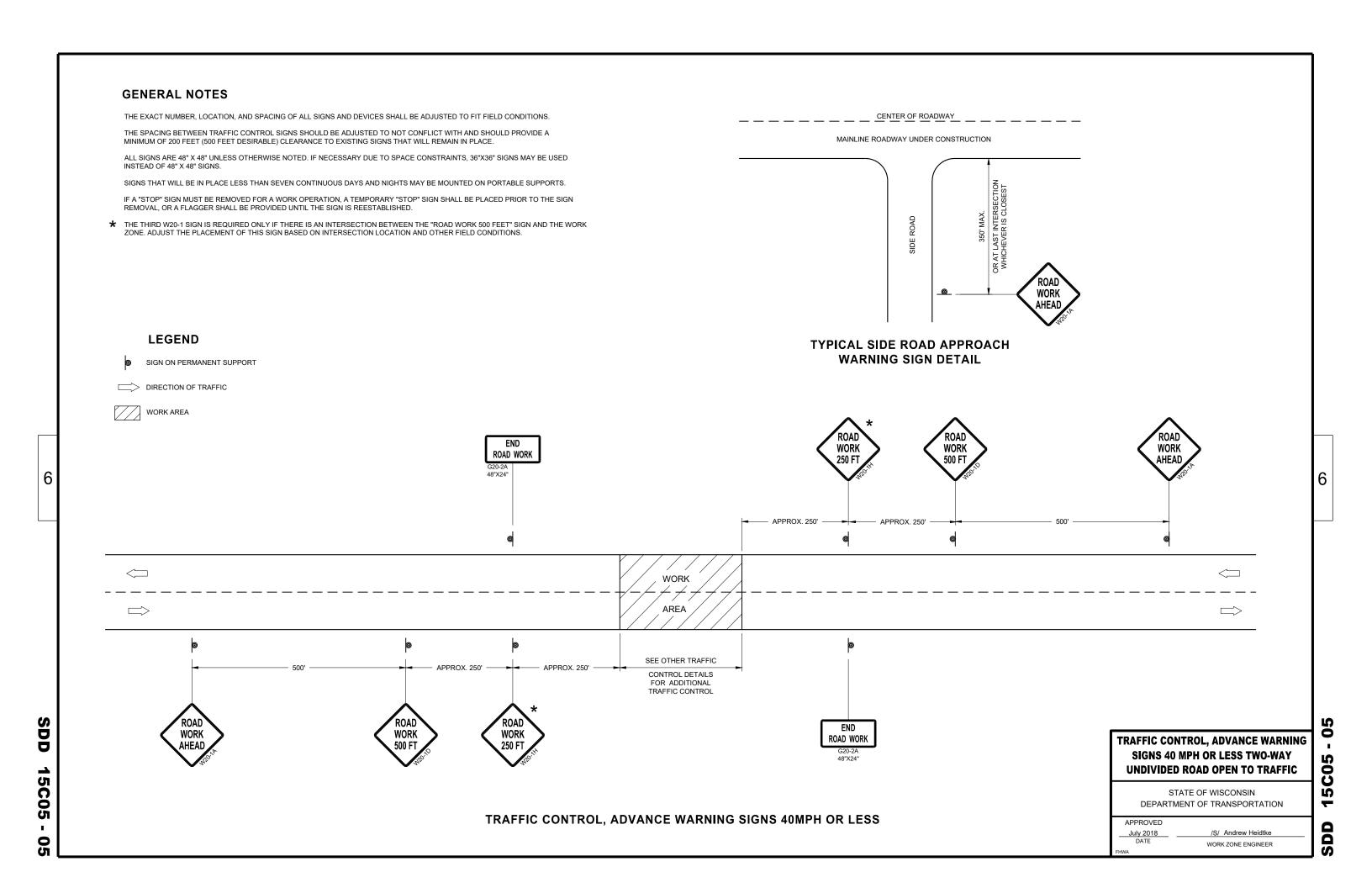
FENCE CHAIN LINK

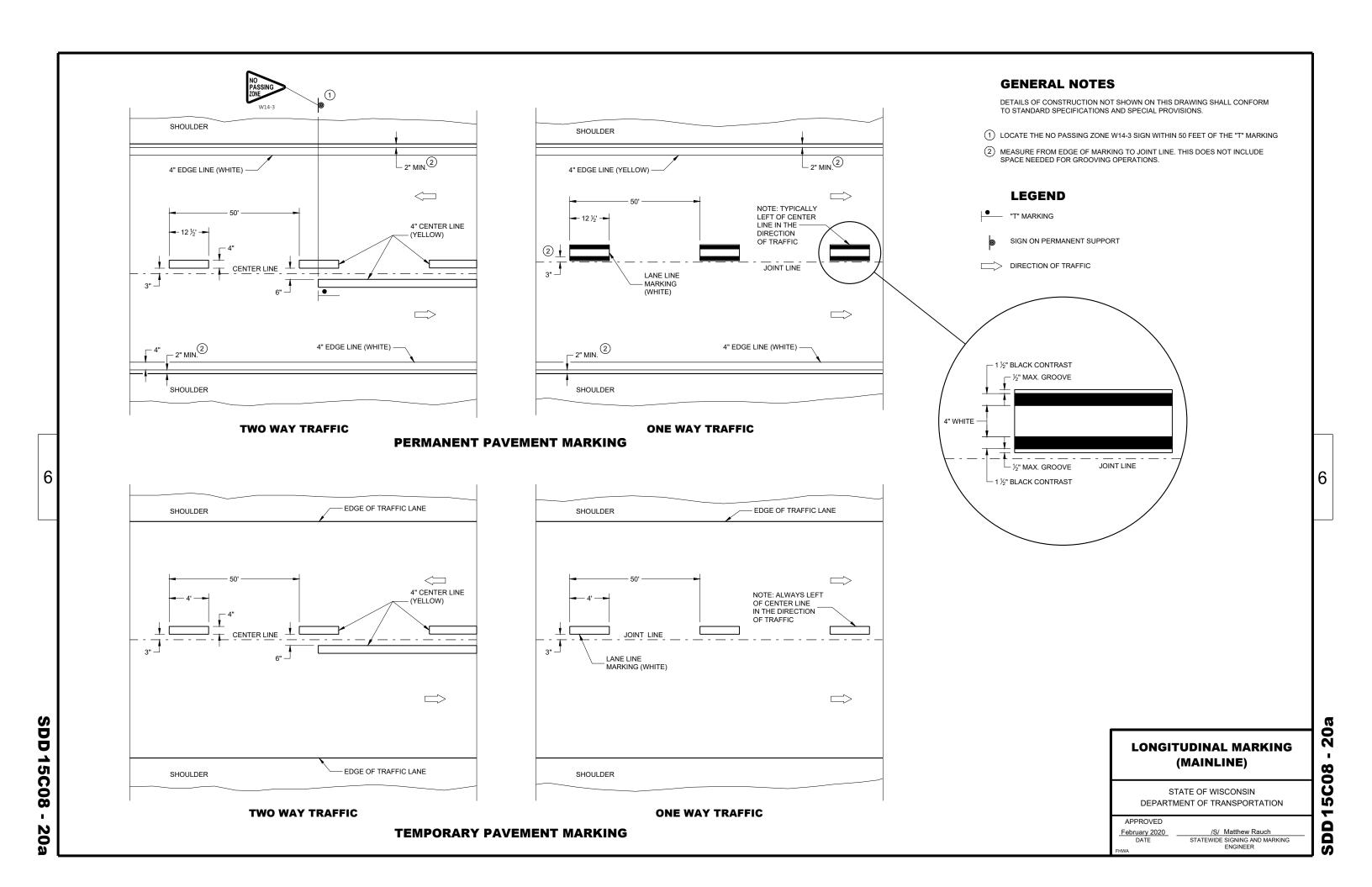
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က  $\mathbf{B}$ Ω Ω





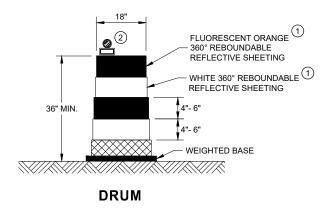


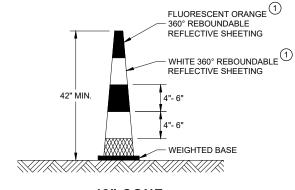




## **GENERAL NOTES**

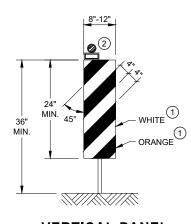
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



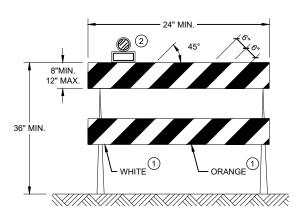


**42" CONE** DO NOT USE IN TAPERS

½ SPACING OF DRUMS

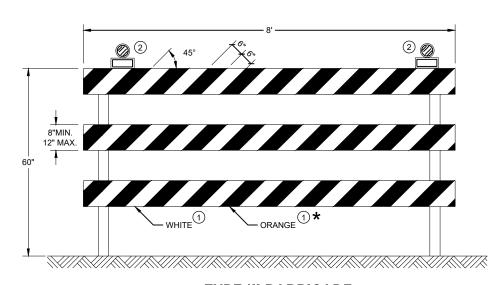


**VERTICAL PANEL** THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### **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**

<u>60</u>

15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

# LEGEND SIGN ON PORTABLE OR PERMANENT SUPPORT DETAILS OF TRAFFIC CONTROL DEVICES AND I PERTINENT REQUIREMENTS OF THE STANDARS UNIFORM TRAFFIC CONTROL DEVICES.

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR OUT IF

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

#### FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

#### **TEMPORARY PORTABLE RUMBLE STRIPS**

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

ROAD

ŔUMBLĖ

STRIPS



RUMBLE

STRIPS

WORK

TEMPORARY PORTABLE RUMBLE

FLAGGER, EQUIPPED WITH STOP/SLOW

PADDLE FASTENED ON SUPPORT STAFF

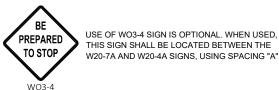
STRIP ARRAY

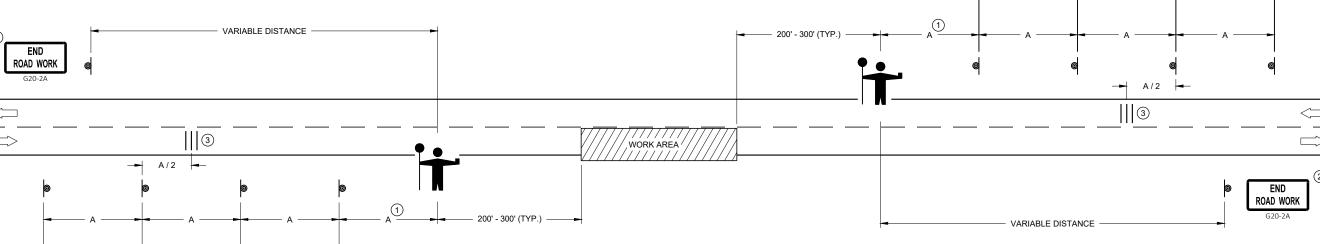
WORK AREA

DIRECTION OF TRAFFIC

# SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'





# TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

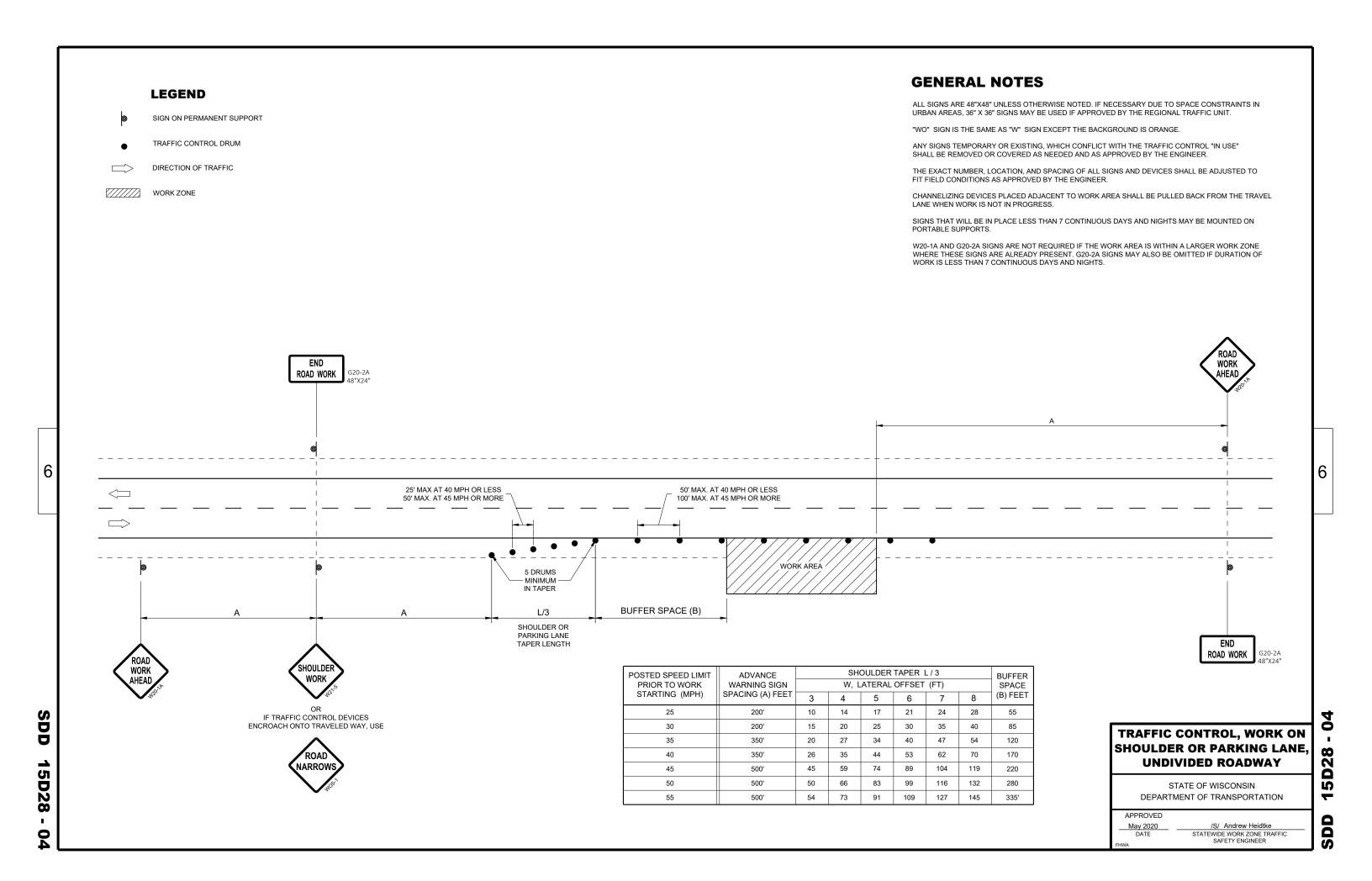
# TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

WORK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

15C12

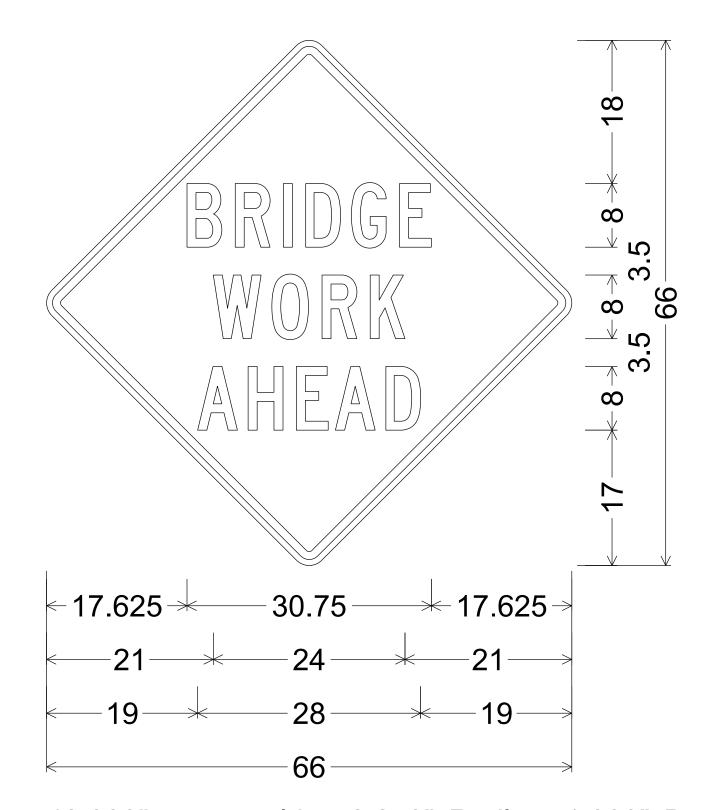


1. Fixed Message Type II Sign - Type F Reflective

2. Color:

Background - Orange Message – Black

3. Message Series - C



48.000" across sides 2.250" Radius, 1.000" Border, 0.750" Indent

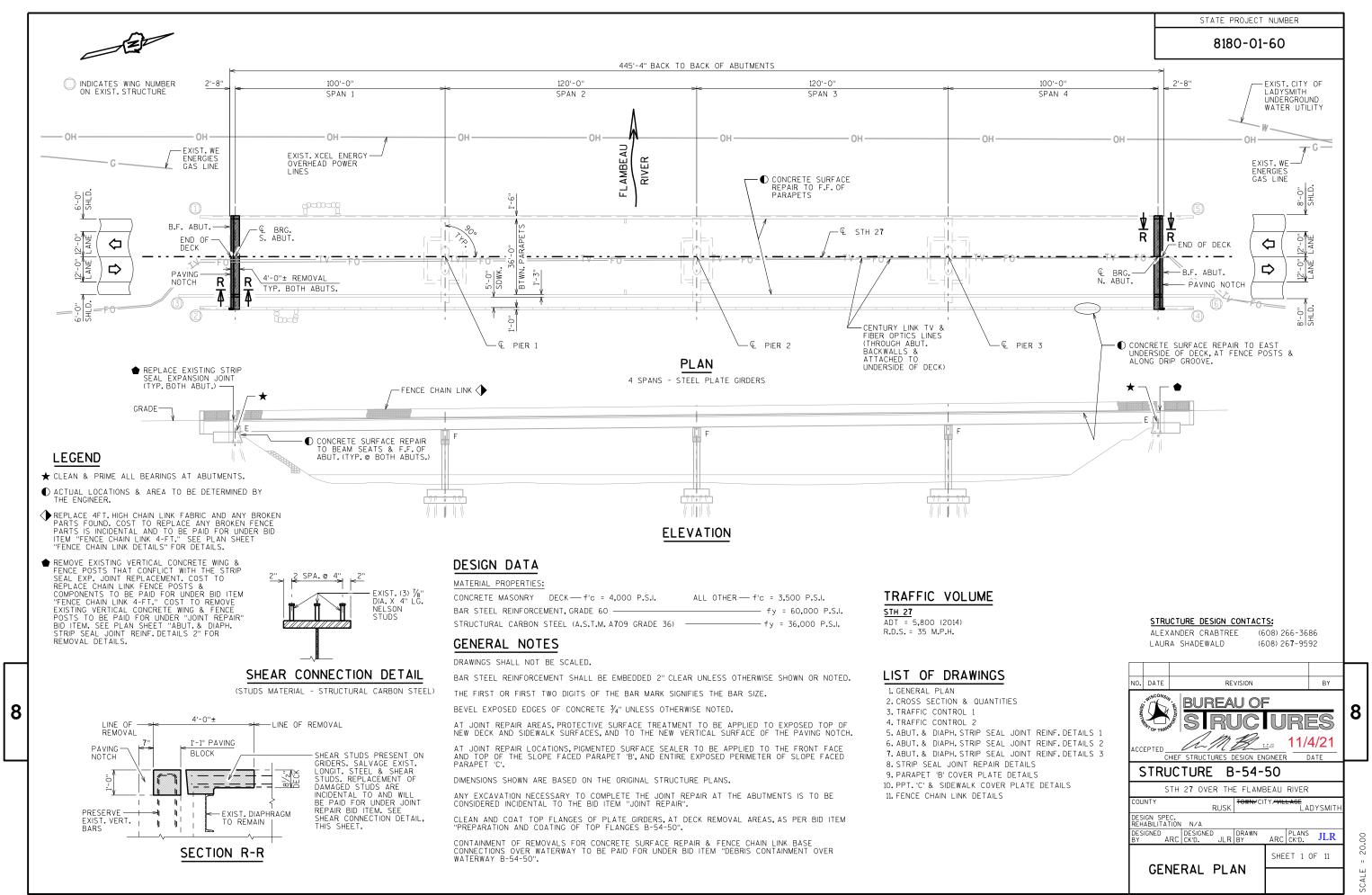
HWY: STH 27 COUNTY: RUSK Ε PROJECT NO: 8180-01-60 TEMPORARY SIGNING SHEET NO:

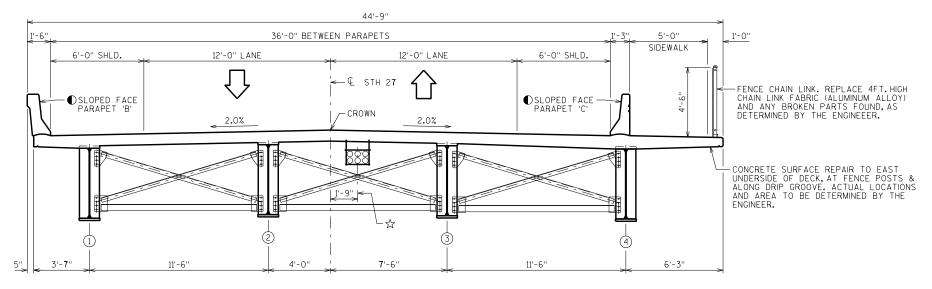
FILE NAME : C:\CAEfiles\Projects\tr\_8\_8542a320FMS.dgn PLOT DATE: 19-MAR 2020 4:06

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$WISDOT/CADDS SHEET 42





## CROSS SECTION THRU ROADWAY LOOKING NORTH

O CONCRETE SURFACE REPAIR TO F.F. OF PARAPETS. ACTUAL LOCATIONS & AREA TO BE DETERMINED BY THE ENGINEER.

# TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	QUANTITY
203.0335	DEBRIS CONTAINMENT OVER WATERWAY B-54-50	EACH	1
502.3101	EXPANSION DEVICE B-54-50	LF	89
502.3200	PROTECTIVE SURFACE TREATMENT	SY	46
502.3210	PIGMENTED SURFACE SEALER	SY	10
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	3,050
505.0904	BAR COUPLERS NO. 4	EACH	4
505.0905	BAR COUPLERS NO. 5	EACH	12
505.0906	BAR COUPLERS NO. 6	EACH	46
509.1000	JOINT REPAIR	SY	40
509.1500	CONCRETE SURFACE REPAIR	SF	20
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	14
51 <b>7.</b> 0901.S	PREPARATION AND COATING OF TOP FLANGES B-54-50	EACH	1
51 <b>7.</b> 4001.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-54-50	EACH	1
616.0204	FENCE CHAIN LINK 4-FT.	LF	4 <b>7</b> 3
SPV.0060	CLEANING AND PAINTING BEARINGS	EACH	8

SHEET 2

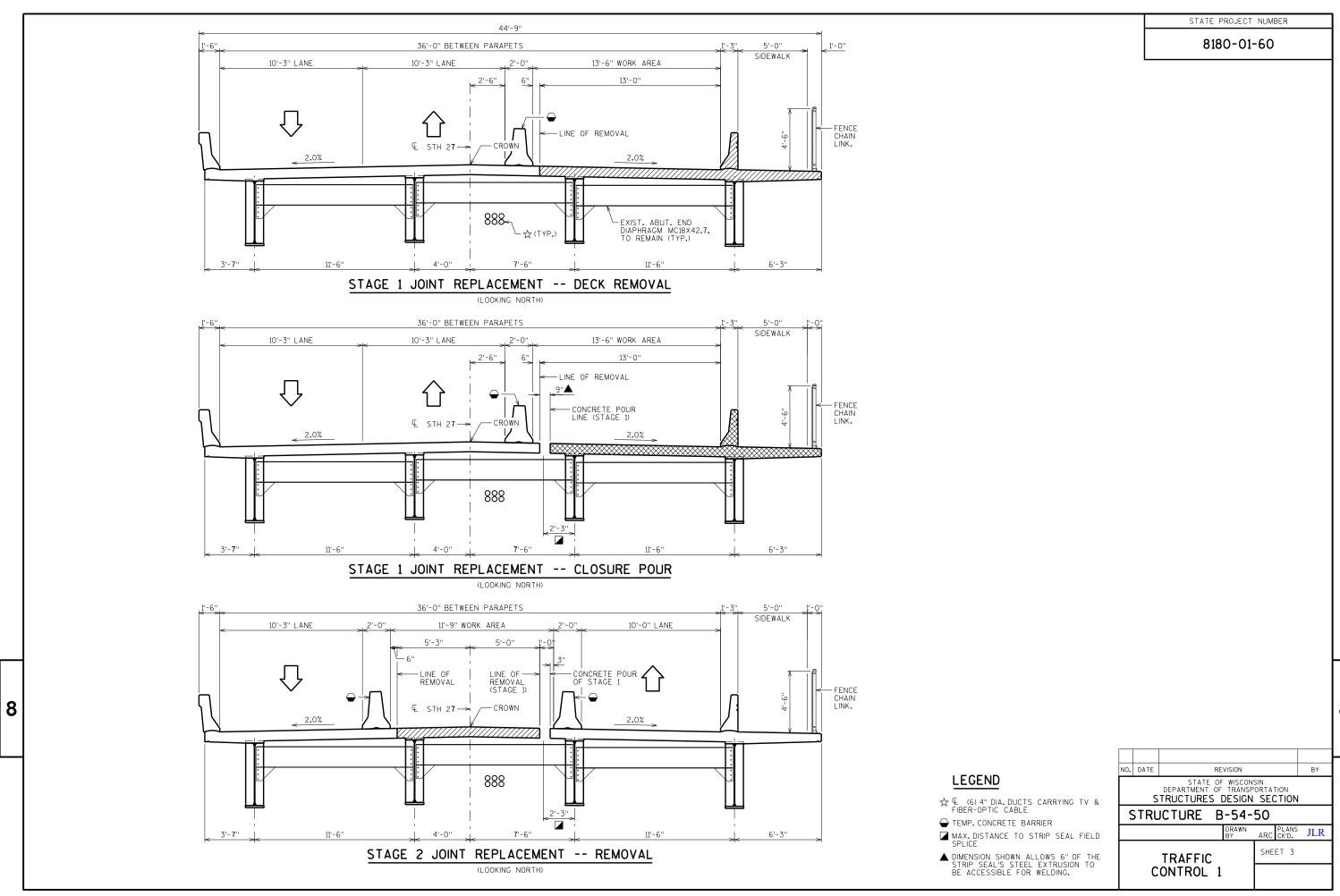
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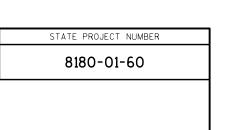
NO. DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

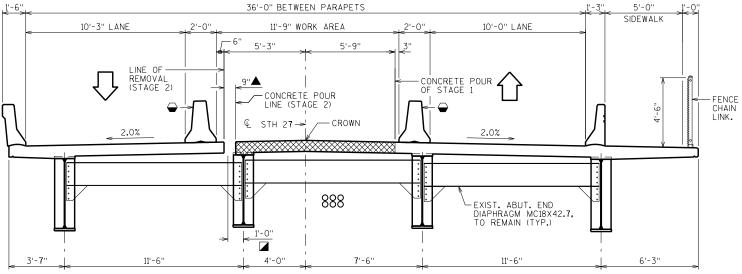
STRUCTURE B-54-50

ARC CK'D. JLR

CROSS SECTION & QUANTITIES







# STAGE 2 JOINT REPLACEMENT -- CLOSURE POUR

13'-9" WORK AREA

12'-9"

13'-9" WORK AREA

10'-0" LANE

10'-3" LANE

10'-3" LANE

10'-3" LANE

10'-3" LANE

FENCE CHAIN LINK.

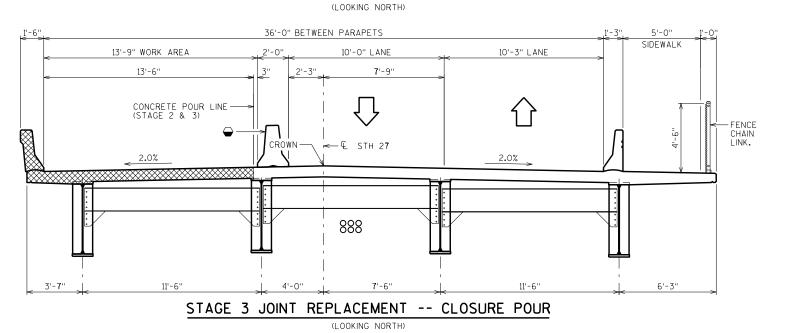
2.0%

# STAGE 3 JOINT REPLACEMENT -- REMOVAL

7'-6"

11'-6"

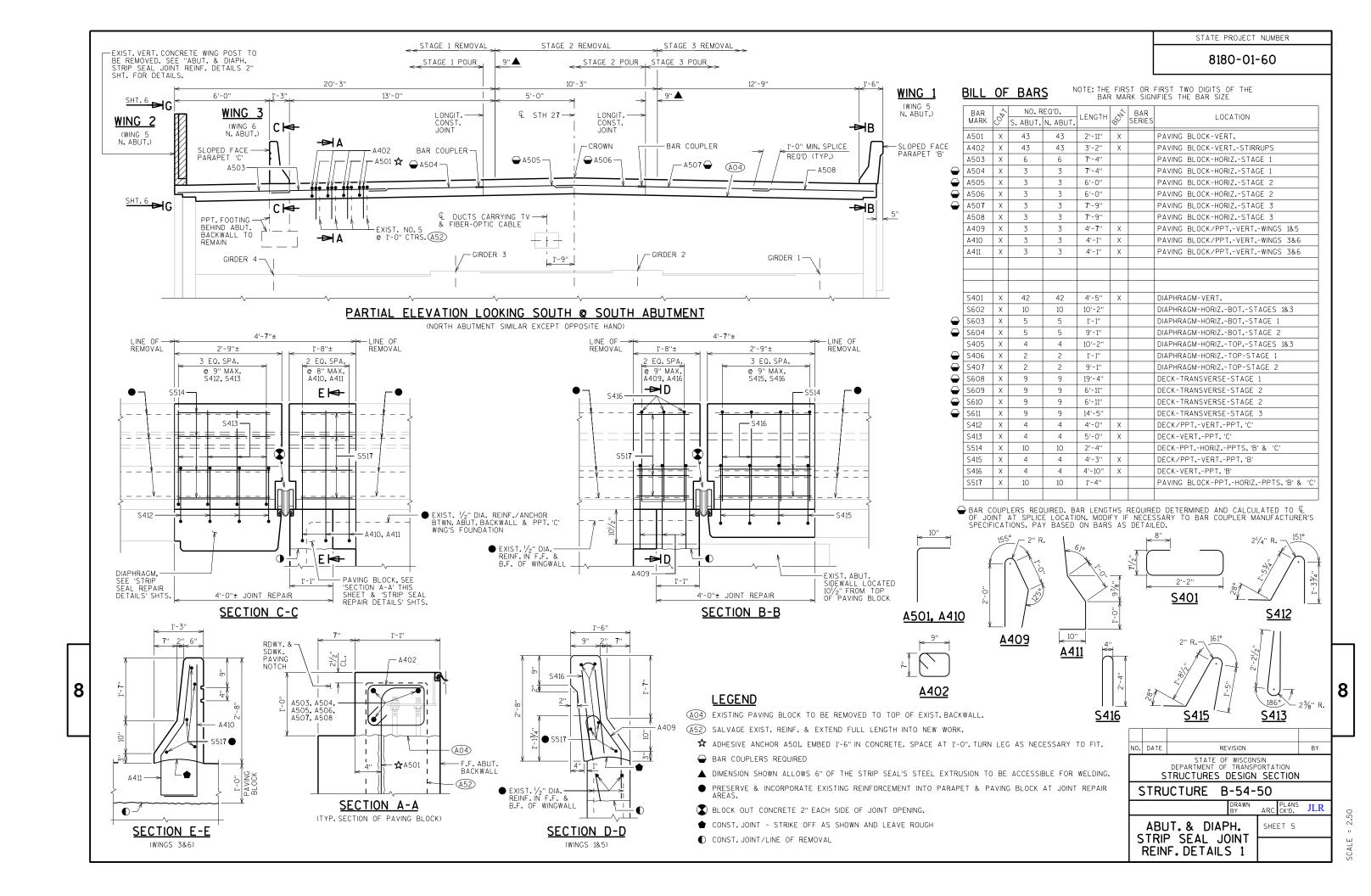
6'-3"



# LEGEND

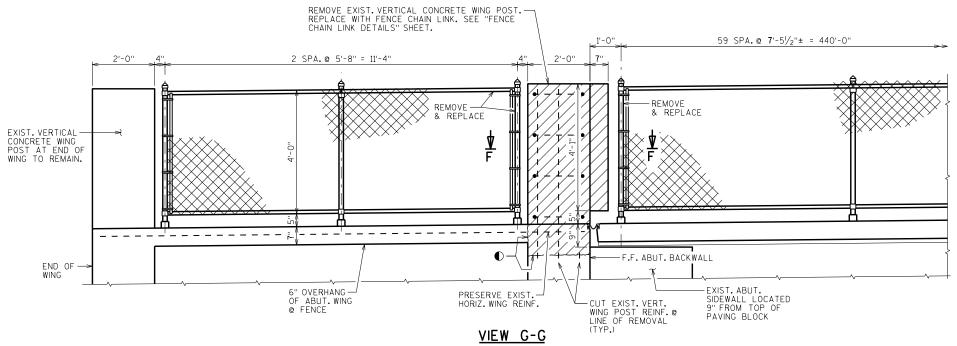
- ☆ Œ (6) 4" DIA. DUCTS CARRYING TV & FIBER-OPTIC CABLE
- TEMP. CONCRETE BARRIER
- MAX. DISTANCE TO STRIP SEAL FIELD SPLICE
- ▲ DIMENSION SHOWN ALLOWS 6" OF THE STRIP SEAL'S STEEL EXTRUSION TO BE ACCESSIBLE FOR WELDING.

٧0.	DATE		REVISION			BY
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
S	STRUCTURE B-54-50					
			DRAWN BY	ARC	PLANS CK'D.	JLR
TRAFFIC CONTROL 2		SHE	ET 4			
	<u> </u>					

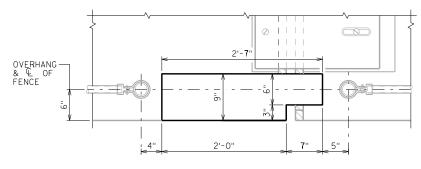


STATE PROJECT NUMBER

8180-01-60



ELEVATIONAL VIEW OF EXISTING FENCE
(WING 2 SHOWN, WING 4 SIMILAR EXCEPT OPPOSITE HAND)



SECTION F-F

(SHOWING PLAN DIMS. OF VERT. CONC. POST)

# **LEGEND**

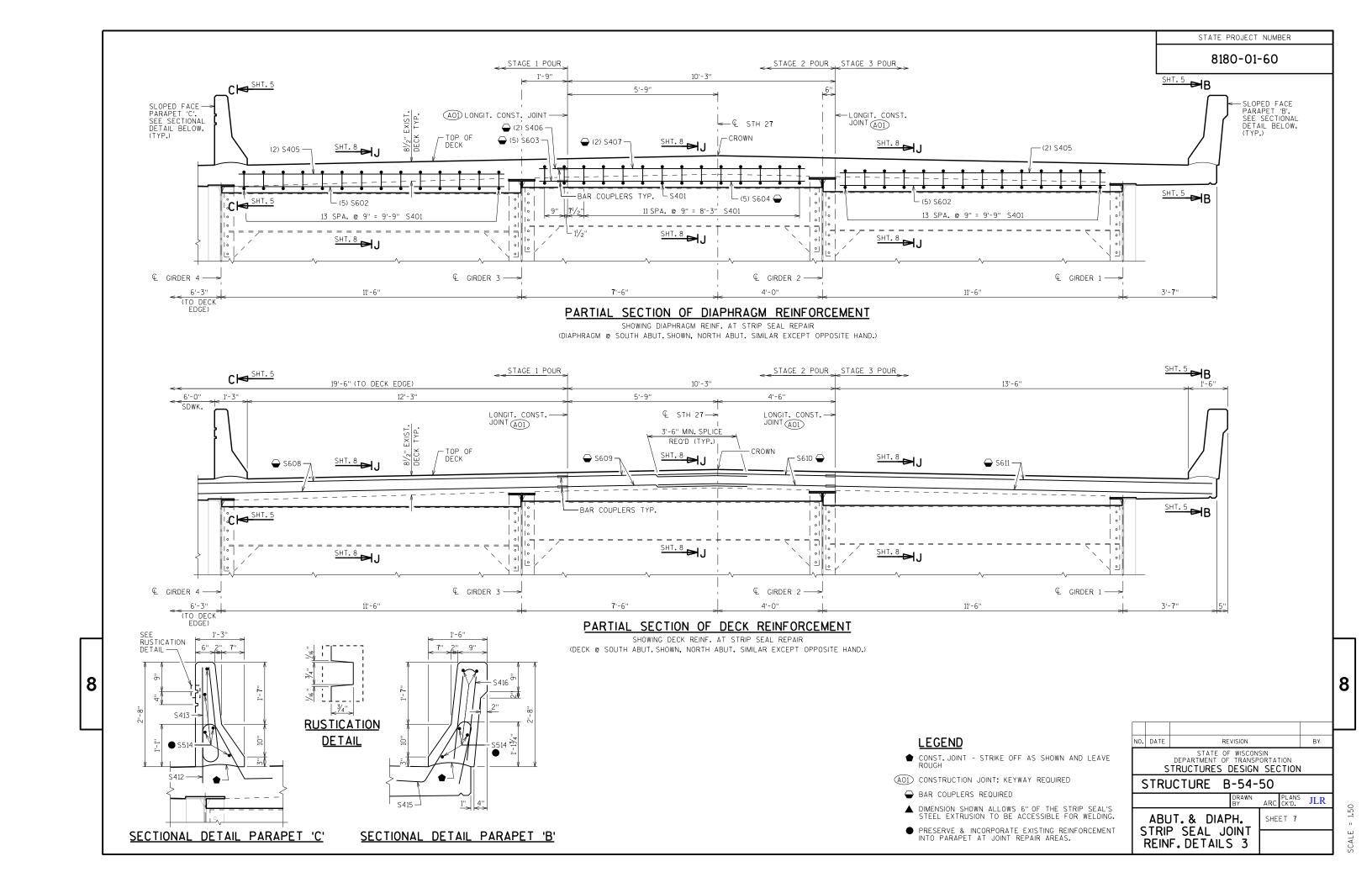
O CONST. JOINT/LINE OF REMOVAL

NO.	DATE	RE	VISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION						
STRUCTURE B-54-50						
			DRAWN BY	ARC	PLANS CK'D.	JLR
ABUT. & DIAPH. STRIP SEAL JOINT REINF. DETAILS 2		SHE	ET 6			

8

SCALE = 1.50

8



- $^{1}\!\!/_{2}$ " Thick anchor plate with  $^{5}\!\!/_{8}$ " Dia Rod (or alternate strip seal anchor). Weld rod to anchor plate, weld anchor plate

- 6 GALVANIZED PLATE 3/8" X 1'-2" X 2'-2" LONG WITH HOLES FOR NO. 7.
- $\ensuremath{\mathcal{Y}}_4$ " dia. X 1 $\!\!\!\!/_2$ " stainless steel socket flat head screws with anti-seize Lubricant. Place in countersunk hole recess  $\!\!\!\!/_{16}$  "

## **NOTES**

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS, IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL, NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE B-54-50", LF.

# **LEGEND**

- -PRESERVE EXIST. (1) NEOPRENE STRIP SEAL (4" INCH) AND STEEL EXTRUSIONS.
  - STUDS % DIA. X  $6\,\%$  Long at 6" alternate centers. Weld to extrusions and bend as shown after Welding.
  - TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
  - $34^{\circ}$  Dia. Threaded rod with 2 nuts and plate washers. Weld threaded rod to top flange or attach by bolting thru flange. On abutment side grout threaded rod into field drilled holes in abutment backwall as shown.
  - (4) 3/4" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
  - 5 FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE, SHOP OR FIELD WELD TO NO.1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1 1/2" DIA, HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
  - BEND AS SHOWN.
  - BELOW PLATE SURFACE.
  - (8) 3/4" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
  - (9) 3/4" DIA. X 21/4" GALVANIZED THREADED COUPLING.
  - (1) 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
  - (11) SIDEWALK COVER PLATE 3/8" X 2'-0" X LIMITS SHOWN WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.
  - (12) GALVANIZED PLATE  $\frac{3}{8}$ " X 10" X 2'-2" LONG WITH HOLES FOR NO. 7.

AND SWEEP.

ANCHOR SYSTEM NO.8 AND NO.9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C

→ DIMENSION IS PARALLEL TO € OF GIRDER

STRUCTURE B-54-50

STRIP SEAL JOINT

REPAIR DETAILS

 $\bigstar$  ADHESIVE ANCHOR A501. EMBED 1'-6" IN CONCRETE. SPACE AT 1'-0". TURN LEG AS NECESSARY TO FIT.

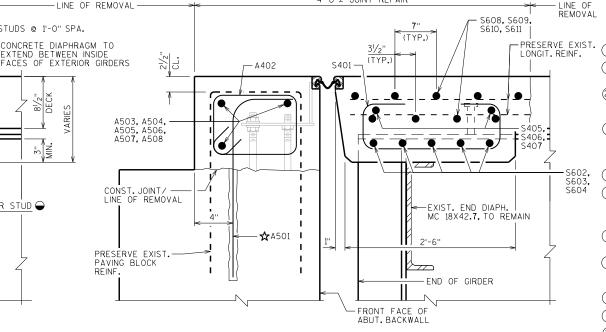
REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURES DESIGN SECTION

**LEGEND** 

NO. DATE

BAR COUPLERS REQUIRED



SECTION J-J

NORMAL TO & SUBSTRUCTURE (DECK SIDE OF JOINT HARDWARE NOT SHOWN FOR CLARITY)

4'-0"± JOINT REPAIR

# SECTION THRU JOINT AT ABUTMENT

-BEND STUD TO CLEAR BOTTOM

OF SLAB BY 1 1/2"
ON OVERHANGS

4'-0"± JOINT REPAIR

(5)

(4)

-SET FLUSH WITH CONC.

(5)(4)

MIN.

LINE OF REMOVAL -

CONST. JOINT/

PRESERVE EXIST.

PAVING BLOCK

REINE.

8

LINE OF REMOVAL !

TYP.

PAVING NOTCH

NORMAL TO & SUBSTRUCTURE

NORMAL TO JOINT

MIN.

SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS

SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.

# **▲ TEMPERATURE TABLE**

- EXIST. STUDS @ 1'-0" SPA.

1'-3" TO SHEAR STUD

(ALL GIRDERS)

-EXIST. END DIAPH. | MC 18X42.7, TO REMAIN

END OF GIRDER

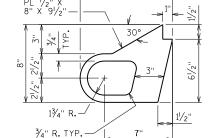
FRONT FACE OF

2'-6"

ABUT. BACKWALL

SHADED UNDERSIDE DECK TEMP. (°F)	JOINT OPENING (NORMAL TO JT.)
85°	1%6"
75°	13/4''
65°	17/8"
55°	21/16"
45°	21/4"
35°	27/16"
25°	25/8"
15°	23/4"
5°	215/6 "

A SMALL JOINT OPENING DUE TO A HIGH TEMPERATURE AT TIME OF CONSTRUCTION MAY REQUIRE NEOPRENE STRIP SEAL INSTALLATION INTO STEEL EXTRUSIONS
PRIOR TO SETTING THE EXPANSION JOINT.



91/2"

ALTERNATE STRIP SEAL ANCHOR

#### NORMAL TO JOINT - LONGIT. CONST. JOINT A503, A504, A505, A506, A507, A508 1<sup>1</sup>/<sub>4</sub>" → A505, A507 - A503, A508 - A504. A506 🖵 (3)(2)0 \$406, \$40**7** MIN. <del>`</del>(2A) 1'-6' S405 MAX. MAX. - FACE OF 91/2" MAX. CONC. OPENING ← Q OF INT. GIRDER ♠ OF EXT. GIRDER BAR COUPLERS (TYP.) AT PAVING BLOCK AT DECK

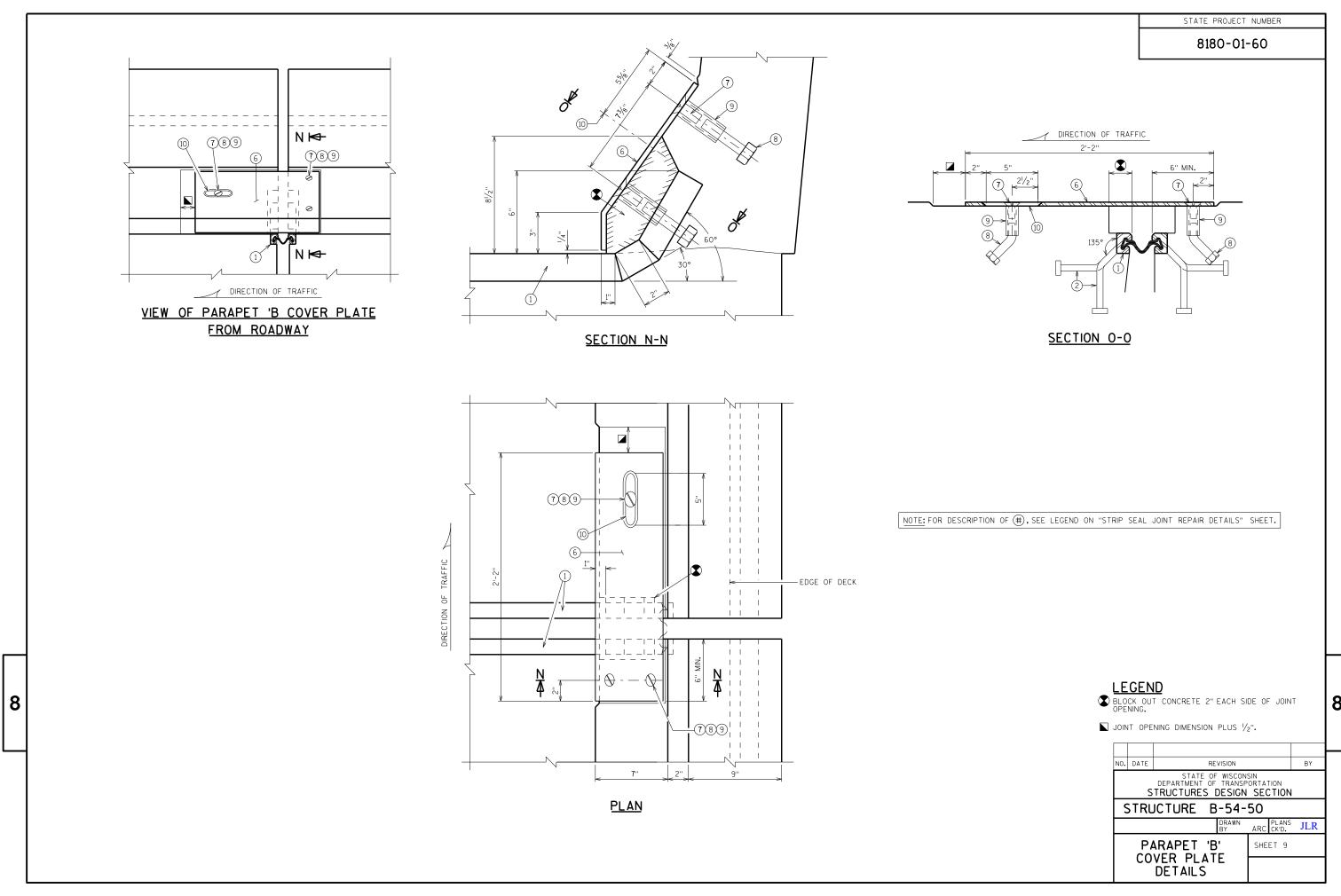
PARTIAL PLAN - HORIZ. PAVING BLOCK & DECK REINF. @ JOINT

(SEE 'ABUT. & DIAPH. STRIP SEAL JOINT REINF. DETAILS 1&3' SHEETS, FOR FURTHER DETAILS.)

BY

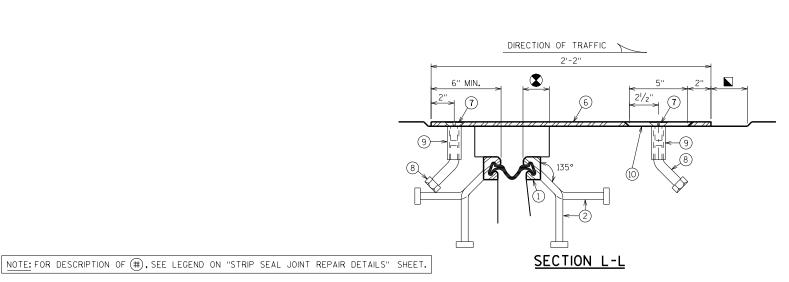
ARC CK'D. JLR

SHEET 8



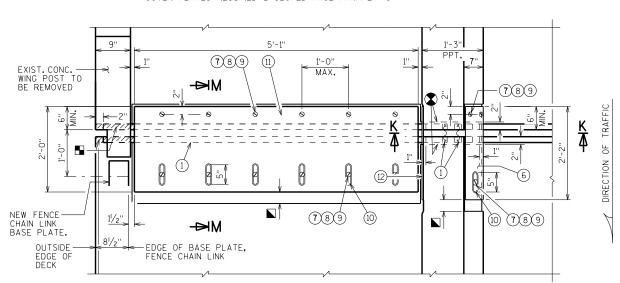
SCALE = 1.00

8180-01-60

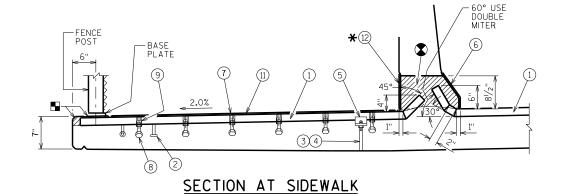


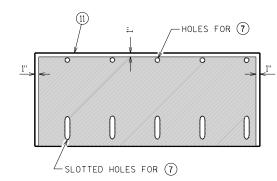
SECTION K-K

COVER PLATES REQUIRED @ SLOPED FACE PARAPET 'C'



PLAN AT SIDEWALK

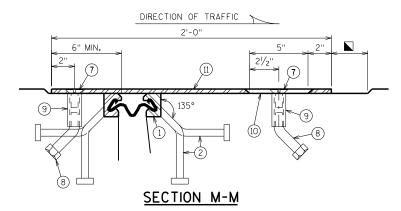




# PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

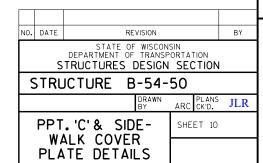
PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY.

APPROVED SLIP-RESISTA	NT APPLIED SURFACES FOR	STEEL PLATES
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W.S.MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170



- LEGEND

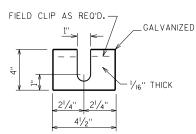
  ★ HORIZ. BOLT LOCATIONS FOR (12) SAME AS FOR SECTION B-B
- BLOCK OUT CONCRETE ABOVE AND AT END OF EXTRUSIONS.
- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- JOINT OPENING DIMENSION PLUS 1/2".



8

# FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2 <b>.27</b>
END POST	2 <b>.87</b> 5	5.80
OVERHANG POST	2 <b>.87</b> 5	5.80
LINE POST	2 <b>.37</b> 5	3.65
POST SLEEVE	4.000	9.12



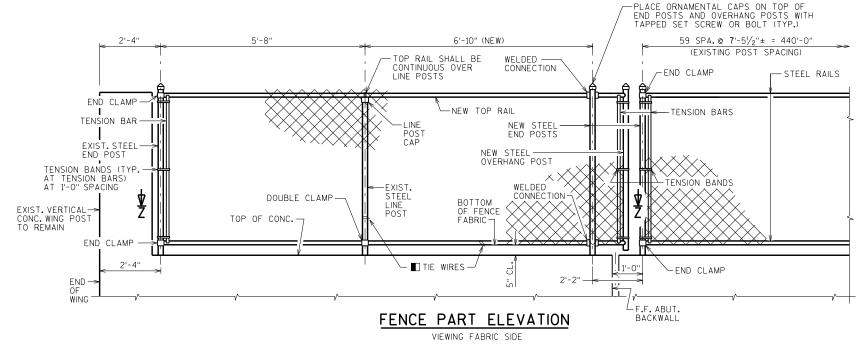
## POST SHIM DETAILS

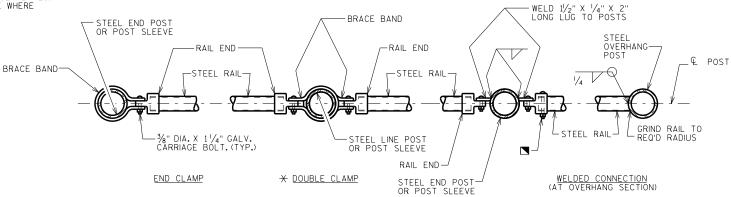
SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.

SECTION THRU FENCE

€ POST-

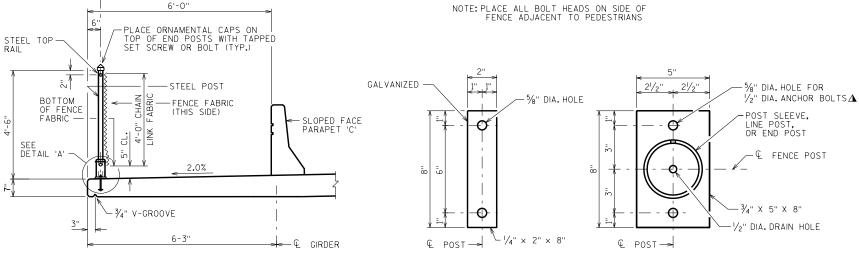
8





# SECTION Z-Z

NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS



#### ANCHOR PLATE

NOTE: ANCHOR PLATE REQUIRED, DUE TO 7" THICKNESS OF SIDEWALK. NO ADHESIVE ANCHORS

# BASE PLATE

## NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH MAY BE ALUMINUM-COATED STEEL OR GALVANIZED STEEL.

FABRIC SHALL CONFORM TO ASTM A491OR A392, CLASS 2. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 4-FT."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

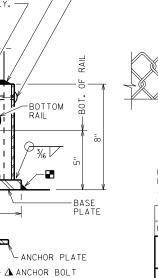
POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A572, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

- CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
- \* ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.
- $\Delta$   $1\!\!/_2$ " dia. X 6 $7\!\!/_8$ " long galvanized hex bolt with nut & Washer.
- ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".
- BOLT RAIL TO RAIL END TO SECURE OVERHANG SECTION. ALTERNATE IS TO WELD RAIL DIRECTLY TO END POST.

MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20:-0". LOCATE SPLICES NEAR  $\frac{1}{4}$  POINT OF POST



# DETAIL 'A'

RAIL

3/6 /

UNIT SHALL BE GALVANIZED AFTER FABRICATION NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.

3/8" DIA. GALV. CARRIAGE BOLT WITH LOCKING NÙT.(TO BE SUPPLIED WITH ASSEMBLY):

FILL SLEEVE AND BEVEL AWAY FROM -POST WITH NON-SHRINK GROUT AFTER SETTING POST.(LEAVE NO VOIDS)

DRILL  $\frac{3}{6}$ " DIA. DRAIN HOLE PARALLEL TO ROADWAY IMMEDIATELY ABOVE GROUT IN POST. SLEEVE LOCATIONS ONLY.  $\frac{3}{7}$ 

₽ POST

SLOPE GROUT FOR DRAINAGE

SLEEVE

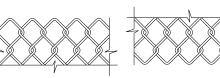
LINE POST

DECK

EDGE OF

OR END POST

TACK WELD

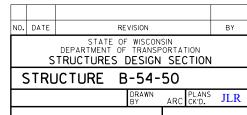


TOP DETAIL

# FENCE FABRIC

BOTTOM DETAIL

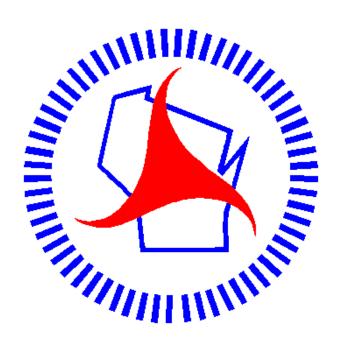
FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.



FENCE CHAIN LINK DETAILS

SHEET 11

5.33 SCALE Notes



# Wisconsin Department of Transportation

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