LAX

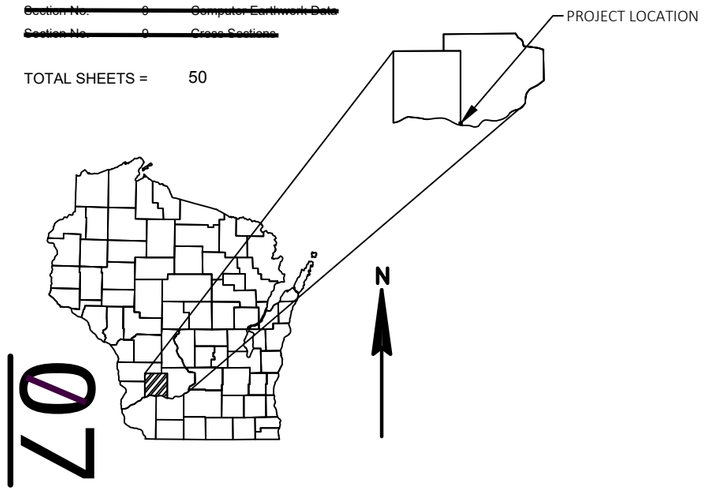
FEBRUARY 2020

PROJECT ID: 5770-01-61

COUNTY: RICHLAND

ORDER OF SHEETS

TOTAL SHEETS = 50



DESIGN DESIGNATION

A.A.D.T.	2020	=	2470
A.A.D.T.	2040	=	3000
D.H.V.		=	360
D.D.		=	60/40
T.		=	5.4%
DESIGN SPEED		=	60 MPH
ESALS		=	N/A

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

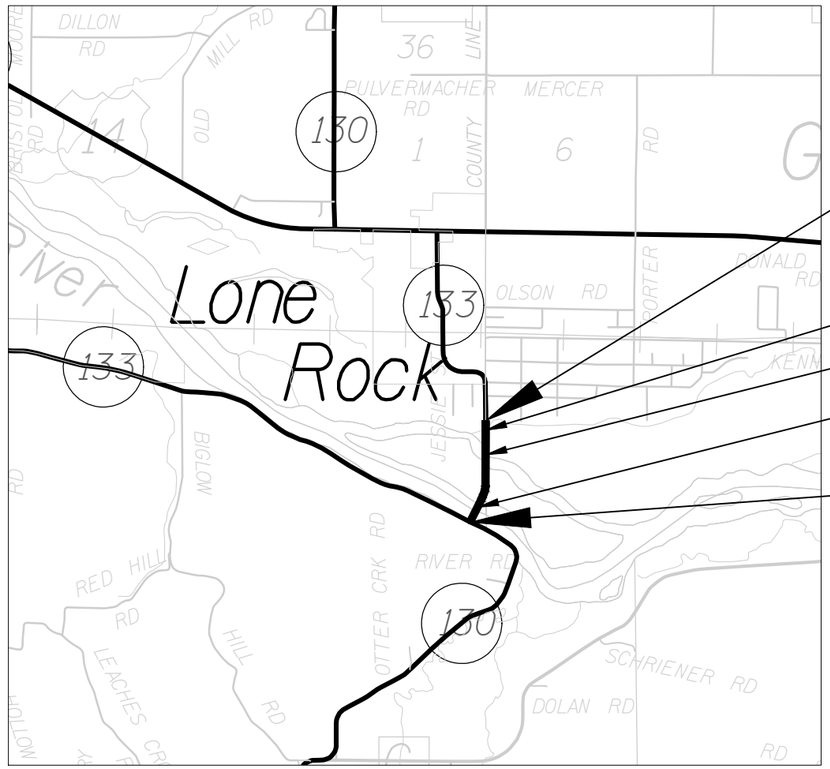
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5770-01-61	WISC 2020037	1

STH 23 - LONE ROCK

WI R BDGS B-25-81,B-52-856,B-52-857

STH 130
RICHLAND COUNTY

STATE PROJECT NUMBER
5770-01-61



END PROJECT
STA 35+43.57

STRUCTURE B-52-857
STA 34+61.77 - STA 35+43.57

STRUCTURE B-52-856
STA 23+13.84 - STA 28+65.57

STRUCTURE B-25-81
STA 1+74.55 - STA 8+11.90

BEGIN PROJECT
STA 1+74.55
Y = 382731.0983
X = 727021.1562

LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.105 MI

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	JOERG FELDBINDER
Designer	PAUL VALENTI
Project Manager	DANIEL KLEINERTZ
Regional Examiner	SW REGION
Regional Supervisor	JOSEPH GREGAS

APPROVED FOR THE DEPARTMENT

DATE: 10-1-2019 (Signature)

E

GENERAL NOTES

- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE SHOULDERS OF THE ROADWAY. THIS WORK IS INCIDENTAL TO THE PROJECT.
- MOVE AND RESTORE ANY ROADWAY SIGNS IN CONFLICT WITH WORK REQUIRED BY CONTRACT. THIS WORK IS INCIDENTAL TO THE PROJECT.

DNR LIAISON

ANDY BARTA
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
SOUTH CENTRAL REGION
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
608-275-3308

VILLAGE OF LONE ROCK

DAN QUINN
VILLAGE PREDIDENT
VILLAGE OFFICE 608-583-0088

TOWN OF CLYDE

BOB DRIES
TOWN CHAIRMAN
608-393-0464

RICHLAND COUNTY

BILL CONDON
HIGHWAY COMMISSIONER
120 BOWEN CIRCLE
RICHLAND CENTER, WI 53581
608-647-4707

IOWA COUNTY

CRAIG HARDY
HIGHWAY COMMISSIONER
1215 N BEQUETTE STREET
DODGEVILLE, WI 53533
608-935-3381 EXT 605

SAUK COUNTY

PATRICK GAVINSKI
HIGHWAY COMMISSIONER
620 LINN STREET
WEST BARABOO, WI 53913
608-355-4855

DESIGN CONTACTS

ANTHONY M VANDER WIELEN, P.E.
PROJECT MANAGER
WISDOT SW REGION
3550 MOROMON COULEE ROAD
LA CROSSE, WI 54601
608-789-7878

PAUL M VALENTI, P.E.
PROJECT DESIGNER
WISDOT SW REGION
3550 MORMON COULEE ROAD
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608-785-9053

CHRISTOPHER DOLL, P.E.
PROJECT DESIGNER
BRIDGES B-52-856 & B-52-857
WISDOT BUREAU OF STRUCTURES
4822 MADISON YARDS WAY
MADISON, WI 53705
608-266-3229

DOMINIQUE BECHLE, P.E.
PROJECT DESIGNER
BRIDGE B-25-81
WISDOT BUREAU OF STRUCTURES
4822 MADISON YARDS WAY
MADISON, WI 53705
608-261-8205

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

ORDER OF SECTION 2 SHEETS

UTILITY CONTACTS

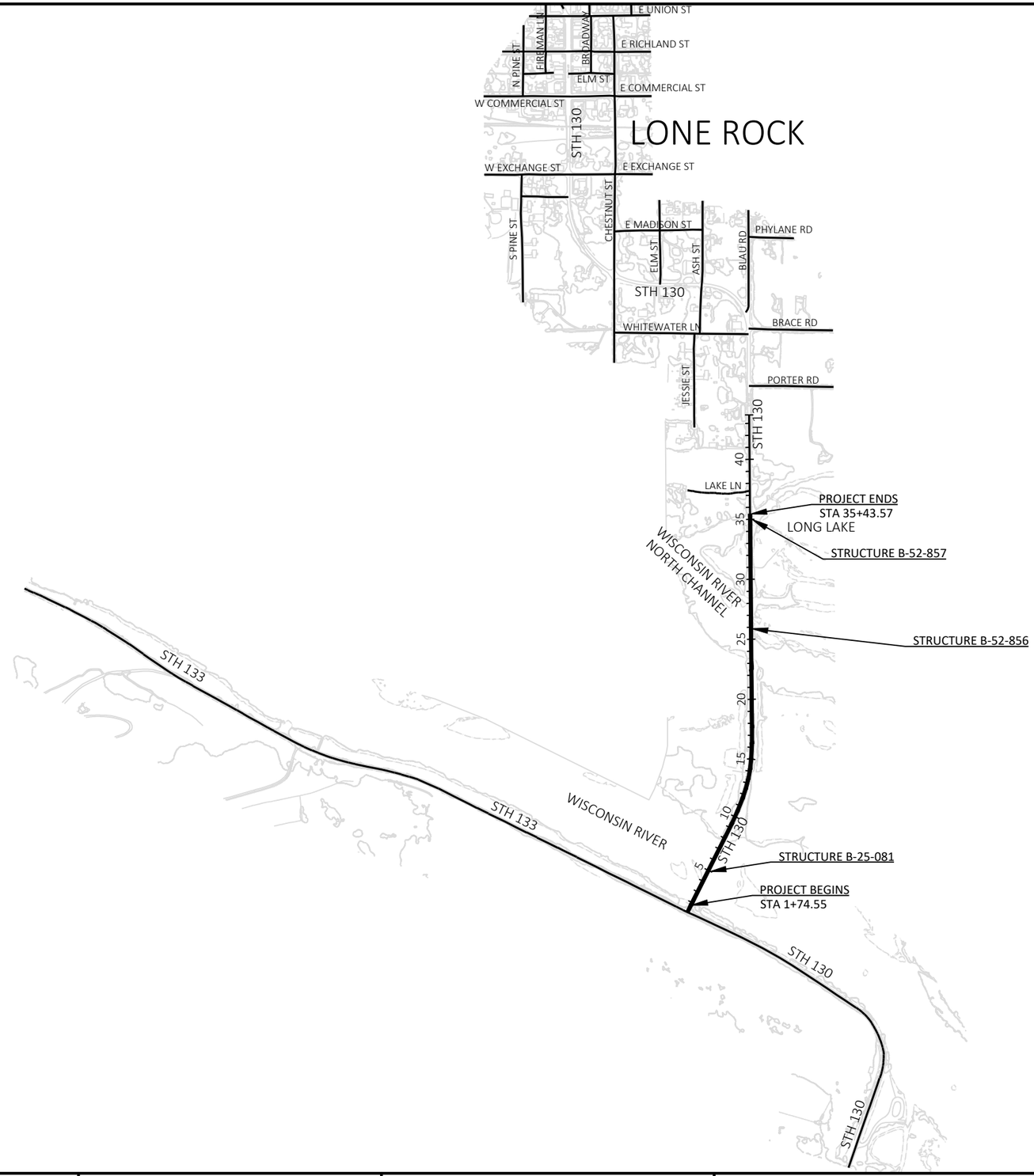
ALLIANT ENERGY
ELECTRICITY
MICHAEL BROLIN
4902 NORTH BILTMORE LN
MADISON, WI 53713
608-458-4871
MICHAELBROLIN@ALLIANTENERGY.COM

ALLIANT ENERGY
GAS
MICHAEL BROLIN
4902 NORTH BILTMORE LN
MADISON, WI 53713
608-458-4871
MICHAELBROLIN@ALLIANTENERGY.COM

FRONTIER COMMUNICATIONS
COMMUNICATIONS LINE
RUSS RYAN
118 DIVISION STREET
PLYMOUTH, WI 53073
920-583-3275
RUSSELL.W.RYAN@FTR.COM

STANDARD ABBREVIATIONS

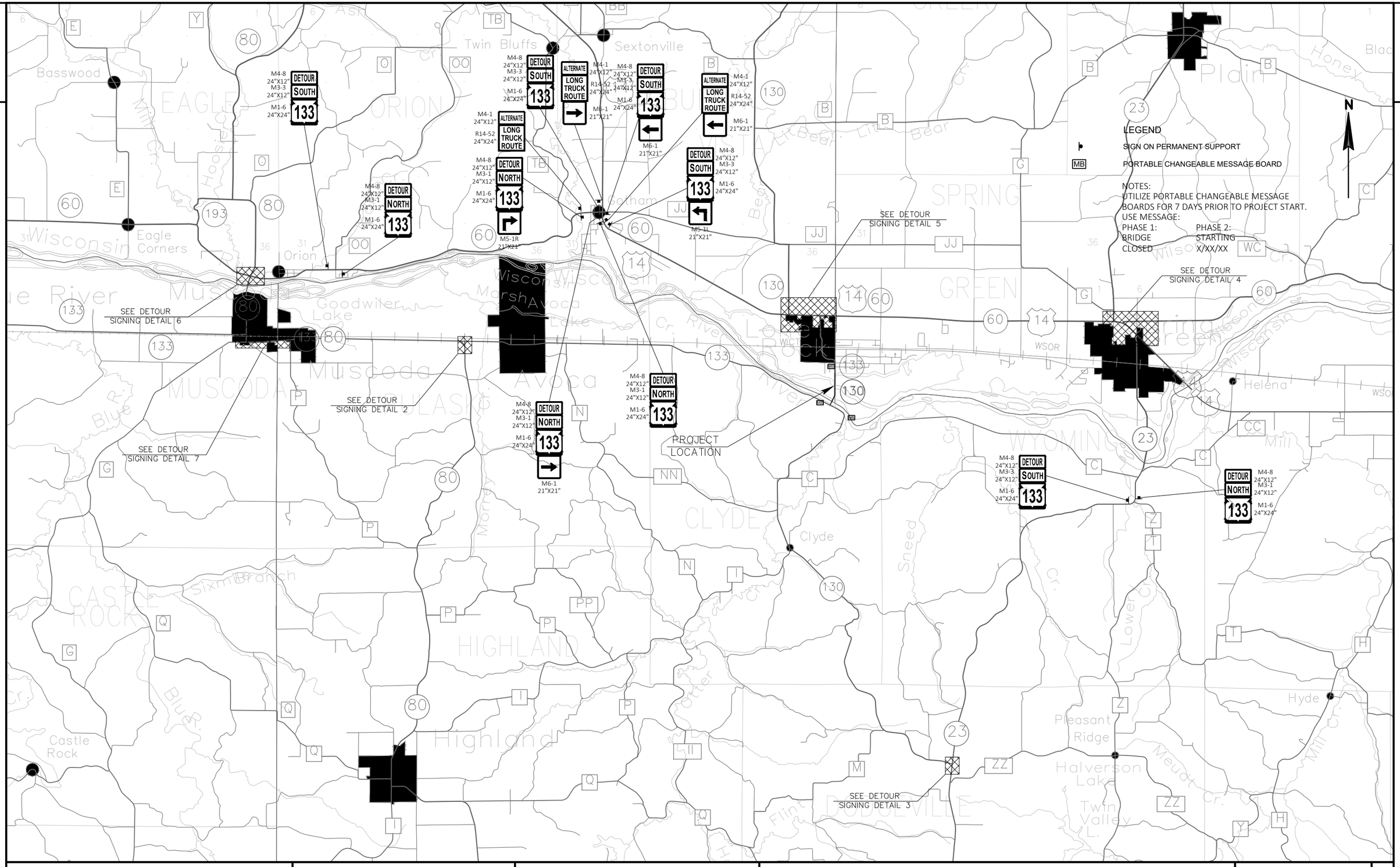
AC	ACRE
AGG	AGGREGATE
<	ANGLE
AE, AEW	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
B.F.	BACK FACE
BM	BENCHMARK
BTWN	BETWEEN
CTR.	CENTER
C/L	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
C.E.	COMMERCIAL ENTRANCE
CONST.	CONSTRUCTION
CMCP	CORRUGATED METAL CULVERT PIPE
CMP	CORRUGATED METAL PIPE
CO.	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CR.	CREEK
CABC	CRUSHED AGGREGATE BASE COURSE
CY	CUBIC YARD
CP	CONTROL POINT OR CULVERT PIPE
C&G	CURB AND GUTTER
D	DEGREE OF CURVE
D.H.V.	DESIGN HOURLY VOLUME
DIA.	DIAMETER
D.D.	DIRECTIONAL DISTRIBUTION
DISCH.	DISCHARGE
DMS	DYNAMIC MESSAGE SIGN
EA	EACH
E	EAST
EB	EASTBOUND
ELEC.	ELECTRIC(AL), ELEC. CABLE
EL., ELEV.	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC.	EXCAVATION
EXIST	EXISTING
F.F.	FACE TO FACE
FERT.	FERTILIZER
F.E.	FIELD ENTRANCE
F/L, F.L.	FLOW LINE
GALV.	GALVANIZE
H.S.	HIGH STRENGTH
CWT	HUNDRED WEIGHT
INL	INLET
INTER.	INTERSECTION
IH	INTERSTATE HIGHWAY
JT.	JOINT
LT	LEFT
L.H.F.	LEFT HAND FORWARD
L.	LENGTH OF CURVE
L.F.	LINEAR FOOT(FEET)
LC.	LONG CHORD
LS	LUMP SUM
M.P.	MARKER POST
MGAL	1000 GALLONS
N.C.	NORMAL CROWN
N	NORTH
NB	NORTHBOUND
NOR	NORMAL
NO.	NUMBER
PAV'T	PAVEMENT
P.L.E.	PERMANENT LIMITED EASEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
PCC	PORTLAND CEMENT CONCRETE
P.E.	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
P.L.	PROPERTY LINE
R	RADIUS OR RANGE
R/L	REFERENCE LINE
R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
REQ'D	REQUIRED
RT	RIGHT
R.H.F.	RIGHT HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHLD.	SHOULDER(S)
SHR.	SHRINKAGE
S	SOUTH
SB	SOUTHBOUND
S.F.	SQUARE FOOT (FEET)
SDD	STANDARD DETAIL DRAWING(S)
STH	STATE TRUNK HIGHWAY
STA.	STATION
S.E.	SUPERELEVATION
S/L	SURVEY LINE
SYM	SYMMETRICAL
T.	PERCENT TRUCKS
TEL.	TELEPHONE
TEMP.	TEMPORARY
T.L.E.	TEMPORARY LIMITED EASEMENT
T.O.C.	TOP OF CURB
TYP	TYPICAL
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND (CABLE)
VAR	VARIABLE
V.C.	VERTICAL CURVE
V.P.C.	VERTICAL POINT OF CURVATURE
V.P.I.	VERTICAL POINT OF INTERSECTION
V.P.T.	VERTICAL POINT OF TANGENCY
Wt.	WEIGHT
W	WEST
WB	WESTBOUND



PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\57700131\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201_po
PLOT DATE : 9/24/2019 8:19 AM
PLOT BY : VALENTI, PAUL M
PLOT NAME :
PLOT SCALE : 1" = 1000'
WISDOT/CADDS SHEET 42

2



PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	DETOUR SIGNING DETAIL 1	SHEET 4	E

2

N

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
133 M1-6 24"X24"

NORTH SOUTH
80 133

BRIDGE OUT
8 1/2 MILES AHEAD
R11-3C
60"X24"

80
133

133

ROAD OPEN TO
AVOCA
R10-61
60"X30"

M4-8
24"X12"
DETOUR

NORTH SOUTH NORTH
80 133 133

ALT
LOCAL
TRUCK
ROUTE

M4-1A
24"X12"
R14-52
24"X24"

M6-1 21"X21"
M6-1 21"X21"

Muscoda
Avoca
COVER

DETOUR M4-8 24"X12"
NORTH SOUTH NORTH
80 133 133
M5-1L 21"X21"

NO ACCESS TO
LONE ROCK
R10-61(MOD)
60"X30"

JCT
133

NORTH M3-1 24"X12"
133 M1-6 24"X24"

DETOUR
AHEAD
W20-2A

80

DETOUR SIGNING
DETAIL 2

130

23

COVER
SOUTH
23

Dodgeville
COVER

END
DETOUR
SOUTH
M4-8A
24"X18"
M3-3
24"X12"

SOUTH
23 130
COVER

NORTH
23

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
130 M1-6 24"X24"

DETOUR M4-8 24"X12"
NORTH NORTH
130 23
M6-1
21"X21"

Spring Green
COVER

DETOUR SIGNING
DETAIL 3

DETOUR M4-8 24"X12"
NORTH NORTH
130 23
M5-1L 21"X21"

JCT
130

NORTH M3-1 24"X12"
130 M1-6 24"X24"

DETOUR
AHEAD
W20-2A

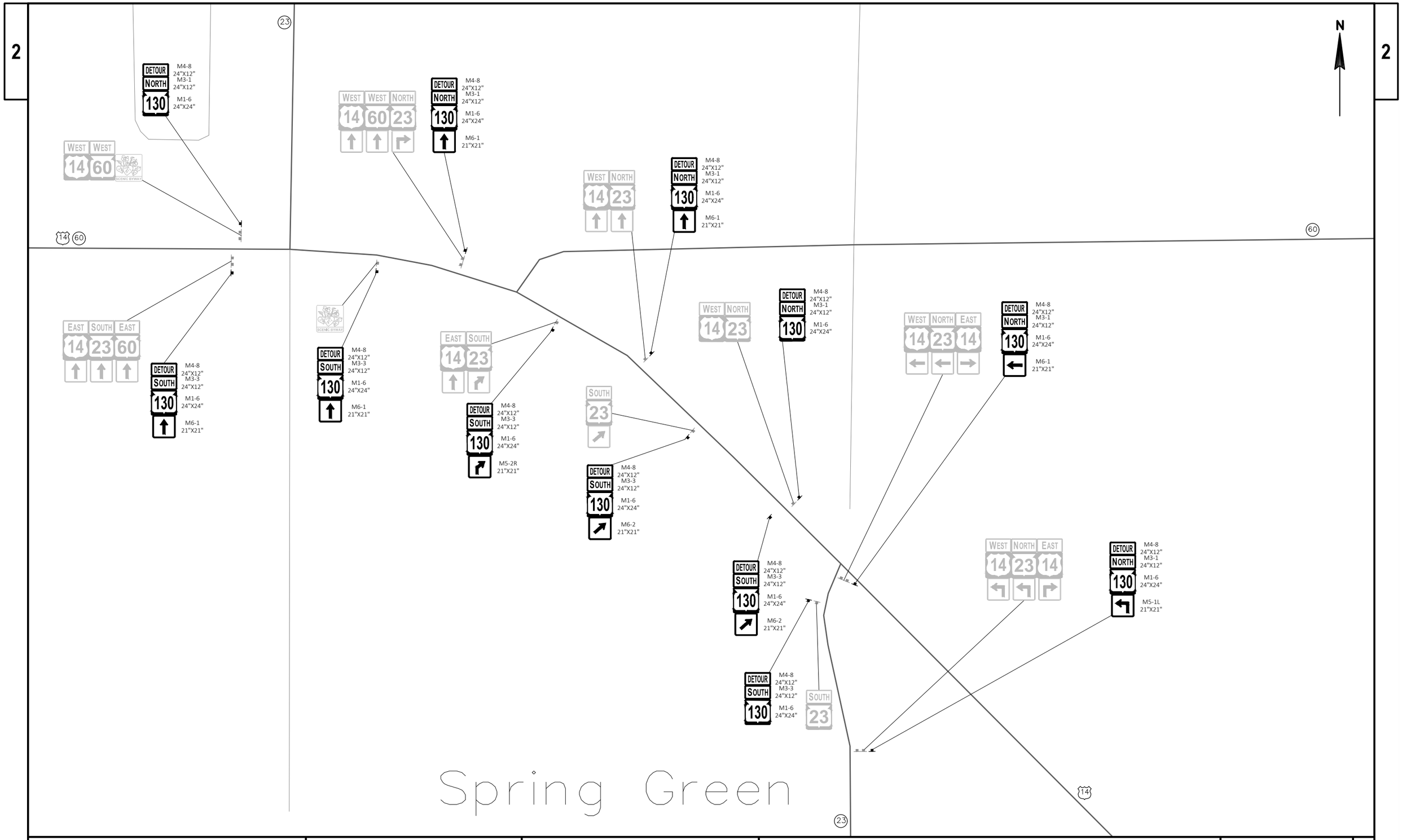
23

PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	DETOUR SIGNING DETAILS 2 & 3	SHEET 5	E

FILE NAME : N:\PDS\C3D\57700131\SHEETSPLAN\027002-DT.DWG
LAYOUT NAME - 027002-dt

PLOT DATE : 9/24/2019 8:17 AM PLOT BY : VALENTI, PAUL M PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	DETOUR SIGNING DETAIL 4	SHEET 6	E

FILE NAME : N:\PDS\C3D\57700131\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 9/24/2019 8:17 AM PLOT BY : VALENTI, PAUL M PLOT NAME : PLOT SCALE : 1 IN:400 FT

2

2

130

N

NORTH 130 →

DETOUR SOUTH 133 ↑ — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

DETOUR SOUTH 133 ↑ — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

WEST WEST NORTH 14 60 130 ↑ ↑ ↱

DETOUR SOUTH 133 ↑ — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

WEST WEST NORTH 14 60 130

DETOUR SOUTH 133 ↑ — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

ALTERNATE LONG TRUCK ROUTE ↑ — M4-1 24"X12", R14-52 24"X24", M6-1 21"X21"

DETOUR SOUTH 133 ↑ — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

COVER

SOUTH NORTH 133 130 ↑

JCT JCT 130 133

SOUTH 133 — M3-3 24"X12", M1-6 24"X24"

DETOUR AHEAD W20-2A

DETOUR SOUTH 133 ↑ — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

COVER

JCT 133

COVER

M4-8 24"X12" DETOUR SOUTH 133 ↑ — M6-1 21"X21"

COVER

14 60

COUNTY LINE RD

NORTH SOUTH 130 130 ↰ ↑

DETOUR NORTH 133 ↑ — M4-8 24"X12", M3-1 24"X12", M1-6 24"X24", M6-1 21"X21"

NORTH SOUTH 130 130 ← ↑

DETOUR NORTH 133 ↑ — M4-8 24"X12", M3-1 24"X12", M1-6 24"X24", M6-1 21"X21"

EAST EAST SOUTH 14 60 130

DETOUR NORTH 133 — M4-8 24"X12", M3-1 24"X12", M1-6 24"X24"

SOUTH 133 — M3-3 24"X12", M1-6 24"X24"

DETOUR AHEAD W20-2A

M4-8 24"X12" DETOUR SOUTH 130 ↑ — COVER, M6-1 21"X21"

M4-8A 24"X18"

M4-8 24"X12" DETOUR — END DETOUR, SOUTH NORTH 130 133 ↑ — M3-1 24"X12", COVER, M6-1 21"X21"

EAST EAST 14 60

DETOUR SOUTH 130 — M4-8 24"X12", M3-3 24"X12", M1-6 24"X24"

14 60

Lone Rock

130

PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	DETOUR SIGNING DETAIL 5	SHEET 7	E

FILE NAME : N:\PDS\C3D\57700131\SHEETSPLAN\027004-DT.DWG
LAYOUT NAME - 027004-dt

PLOT DATE : 9/24/2019 8:17 AM PLOT BY : VALENTI, PAUL M PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

2

DETOUR SIGNING
DETAIL 7

NORTH 133 M3-1 24"X12" M1-6 24"X24"
DETOUR AHEAD W20-2A

NO ACCESS TO LONE ROCK
R10-61(MOD) 60"X30"

ROAD OPEN TO AVOCA
R10-61 60"X30"

JCT 80

DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24"

SOUTH 133 NORTH 80 DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

SOUTH 133 NORTH 80 DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

NORTH 80 SOUTH 80 NORTH 133 DETOUR M4-8 24"X12" M5-1L 21"X21"

NORTH 80 SOUTH 80 NORTH 133 DETOUR M4-8 24"X12" M6-1 21"X21"

ALTERNATE LONG TRUCK ROUTE M4-1 24"X12" R14-52 24"X24" M6-1 21"X21"

COUNTY G NORTH 80 NORTH 133 DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

NORTH 80 NORTH 133 DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24" M5-1R 21"X21"

Muscoda

DETOUR SIGNING
DETAIL 6

DETOUR SOUTH 133 M4-8 24"X12" M3-3 24"X12" M1-6 24"X24" M6-1 21"X21"

NORTH 80

ALTERNATE LONG TRUCK ROUTE M4-1 24"X12" R14-52 24"X24" M6-1 21"X21"

EAST 60 SCENIC BYWAY DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24"

DETOUR SOUTH 133 M4-8 24"X12" M3-3 24"X12" M1-6 24"X24" M5-1L 21"X21"

SOUTH 80 DETOUR SOUTH 133 M4-8 24"X12" M3-3 24"X12" M1-6 24"X24"

ALTERNATE LONG TRUCK ROUTE M4-1 24"X12" R14-52 24"X24"

EAST 60 DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24" M5-1R 21"X21"

ALTERNATE LONG TRUCK ROUTE M4-1 24"X12" R14-52 24"X24"

DETOUR NORTH 133 M4-8 24"X12" M3-1 24"X12" M1-6 24"X24"

P

PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	DETOUR SIGNING DETAILS 6 & 7	SHEET 8	E

5770-01-61

Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 5770-01-61	EACH	1.000	1.000
0004	502.0100	Concrete Masonry Bridges	CY	10.000	10.000
0006	502.4106	Adhesive Anchors 3/4-inch	EACH	44.000	44.000
0008	505.0400	Bar Steel Reinforcement HS Structures	LB	70.000	70.000
0010	506.0105	Structural Steel Carbon	LB	8,395.000	8,395.000
0012	506.3009	Welded Stud Shear Connectors 3/4x5-Inch	EACH	66.000	66.000
0014	509.0301	Preparation Decks Type 1	SY	16.000	16.000
0016	509.0302	Preparation Decks Type 2	SY	8.000	8.000
0018	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	160.000	160.000
0020	509.1200	Curb Repair	LF	120.000	120.000
0022	509.1500	Concrete Surface Repair Special	SF	470.000	470.000
0024	509.2100.S	Concrete Masonry Deck Repair	CY	3.000	3.000
0026	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5770-01-61	EACH	1.000	1.000
0028	619.1000	Mobilization	EACH	1.000	1.000
0030	628.1104	Erosion Bales	EACH	192.000	192.000
0032	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0034	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0036	628.2027	Erosion Mat Class II Type C	SY	934.000	934.000
0038	629.0205	Fertilizer Type A	CWT	1.000	1.000
0040	630.0110	Seeding Mixture No. 10	LB	15.000	15.000
0042	630.0500	Seed Water	MGAL	19.000	19.000
0044	642.5001	Field Office Type B	EACH	1.000	1.000
0046	643.0300	Traffic Control Drums	DAY	105.000	105.000
0048	643.0420	Traffic Control Barricades Type III	DAY	1,120.000	1,120.000
0050	643.0705	Traffic Control Warning Lights Type A	DAY	1,440.000	1,440.000
0052	643.0715	Traffic Control Warning Lights Type C	DAY	105.000	105.000
0054	643.0900	Traffic Control Signs	DAY	18,160.000	18,160.000
0056	643.0920	Traffic Control Covering Signs Type II	EACH	20.000	20.000
0058	643.1050	Traffic Control Signs PCMS	DAY	21.000	21.000
0060	643.5000	Traffic Control	EACH	1.000	1.000
0062	646.5120	Marking Word Epoxy	EACH	2.000	2.000
0064	715.0502	Incentive Strength Concrete Structures	DOL	500.000	60.000
0066	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	600.000	600.000
0068	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0070	SPV.0060	Special 01. Traffic Control State Owned Signs	EACH	9.000	9.000
0072	SPV.0060	Special 02. Removing Rivets	EACH	100.000	100.000
0074	SPV.0060	Special 03. Lower Lateral Bracing Repair	EACH	5.000	5.000
0076	SPV.0060	Special 04. Batten Plate Repair B-25-81	EACH	10.000	10.000
0078	SPV.0060	Special 05. Batten Plate Repair B-52-856	EACH	5.000	5.000

5770-01-61

Line	Item	Item Description	Unit	Total	Qty
0080	SPV.0060	Special 06. Lacing Plate Repair	EACH	10.000	10.000
0082	SPV.0105	Special 01. Structure Spot Cleaning And Painting B-25-81	LS	1.000	1.000
0084	SPV.0105	Special 02. Structure Spot Cleaning And Painting B-52-856	LS	1.000	1.000
0086	SPV.0105	Special 03. Structure Spot Cleaning And Painting B-52-857	LS	1.000	1.000
0088	SPV.0105	Special 04. Field Grinding of Member Gouges	LS	1.000	1.000
0090	SPV.0180	Special 01. Abutment Seat Cleaning and Sealing	SY	17.000	17.000

3

EROSION CONTROL SUMMARY

CATEGORY	LOCATION	628.1104 EROSION BALES EACH	628.2027 EROSION MAT CLASS II TYPE C SY	629.0205 FERTILIZER TYPE A CWT	630.0110 SEEDING MIXTURE NO. 10 LB	630.0500 SEED WATER MGAL	REMARKS
0010	B-52-856 NORTH ABUTMENT	56	234	0.2	4	5	
0010	B-52-857 SOUTH ABUTMENT	48	200	0.2	3	4	
0010	B-52-857 NORTH ABUTMENT	48	200	0.2	3	4	
0010	UNDISTRIBUTED	40	300	0.4	5	6	
	TOTAL 0010	192	934	1.0	15	19	

NOTE: SEED WATER ESTIMATED AS 1 INCH PER SQUARE YARD PER WEEK FOR 4 WEEKS.

TRAFFIC CONTROL SUMMARY

CATEGORY	STATION	DURATION DAYS / CYCLES	643.0300 TRAFFIC CONTROL DRUMS QUANTITY	643.0300 DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QUANTITY	643.0420 DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QUANTITY	643.0705 DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QUANTITY	643.0715 DAY	643.0900 TRAFFIC CONTROL SIGNS QUANTITY	643.0900 DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II QUANTITY	643.0920 EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS QUANTITY	643.1050 DAY	SPV.0060.01 TRAFFIC CONTROL STATE OWNED SIGNS QUANTITY	SPV.0060.01 EACH	REMARKS
0010	ADVANCED PROJECT NOTIFICATION	7	15	105		0		0	15	105		0		0	3	21		0	
0010	ROAD CLOSURE	80		0	14	1,120	18	1,440		0	7	560		0		0		0	
	DETOURS																		
0010	STH 60 LONG TRUCK ROUTE	80		0		0		0		0	18	1,440		0		0		0	
0010	STH 60 LONG TRUCK ROUTE	1		0		0		0		0		0		0		0	9	9	
0010	STH 130 NB	80		0		0		0		0	32	2,560		0		0		0	
0010	STH 130 NB	1		0		0		0		0		0	1	1		0		0	
0010	STH 130 SB	80		0		0		0		0	32	2,560		0		0		0	
0010	STH 130 SB	1		0		0		0		0		0	14	14		0		0	
0010	STH 133 NB	80		0		0		0		0	85	6,800		0		0		0	
0010	STH 133 NB	1		0		0		0		0		0	2	2		0		0	
0010	STH 133 SB	80		0		0		0		0	53	4,240		0		0		0	
0010	STH 133 SB	1		0		0		0		0		0	3	3		0		0	
	TOTAL 0010			105		1,120		1,440		105		18,160		20		21		9	

MARKING WORD EPOXY

CATEGORY	STATION	LOCATION	646.5120 MARKING WORD EPOXY EACH	REMARKS
	WHITE			
0010	10+90	LT	1	AHEAD
0010	11+30	LT	1	STOP
		TOTAL 0010	2	

IOWA COUNTY
TOWN OF CLYDE

5

5

STH 133

WISCONSIN RIVER - MAIN CHANNEL

BP: 1+12.14

PI: 1+74.88

TS: 8+18.59

SC: 11+68.26

PAVEMENT MARKING (WORDS) - WHITE
PLACE IN COORDINATION WITH EXISTING
STOP AHEAD SIGN

2 4 6 8 10 12

STH 130/133

40'

STRUCTURE B-25-81

SIGN

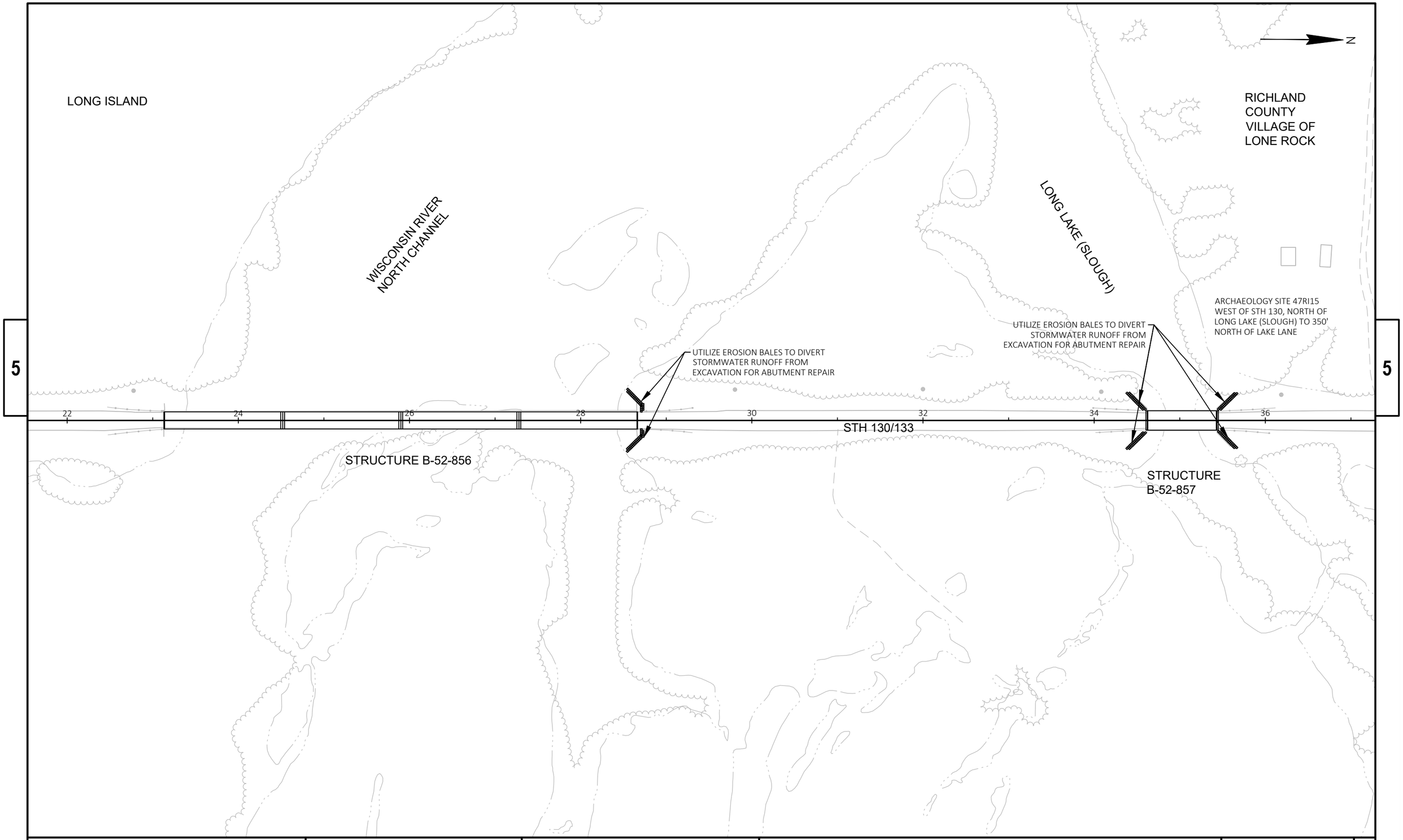
STH 130

N

PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	PLAN - STRUCTURE B-25-81	SHEET 12	E

FILE NAME : N:\PDS\C3D\57700131\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050201-pn

PLOT DATE : 9/24/2019 8:26 AM PLOT BY : VALENTI, PAUL M PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 5770-01-61	HWY: STH 130	COUNTY: RICHLAND	PLAN - STRUCTURES B-25-856 & B-25-857	SHEET 13	E

FILE NAME : N:\PDS\C3D\57700131\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050202-pn

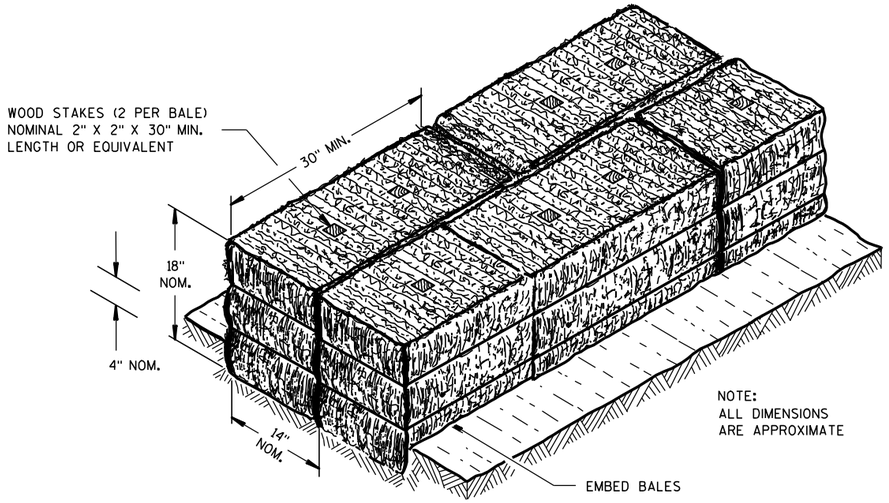
PLOT DATE : 12/2/2019 7:07 AM PLOT BY : VALENTI, PAUL M PLOT NAME : PLOT SCALE : 1 IN:100 FT

Standard Detail Drawing List

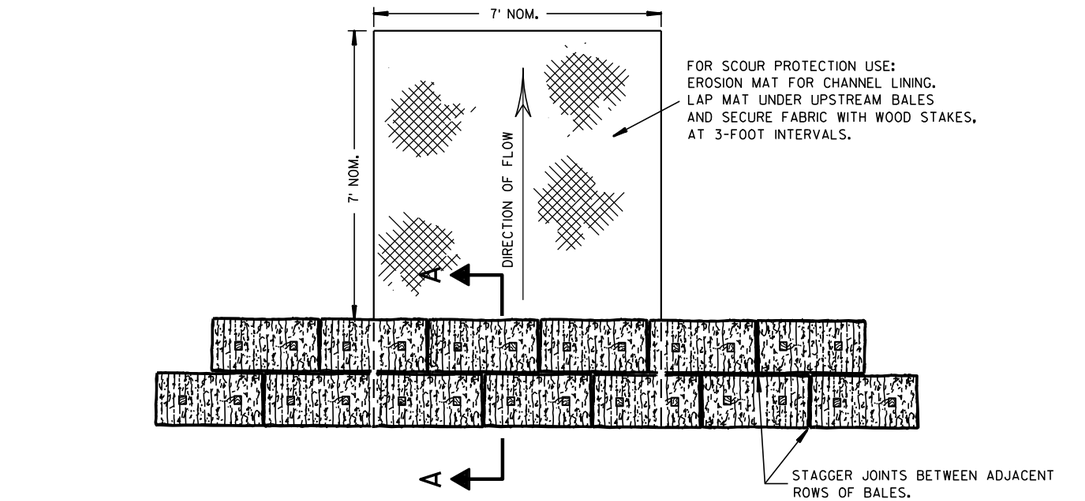
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

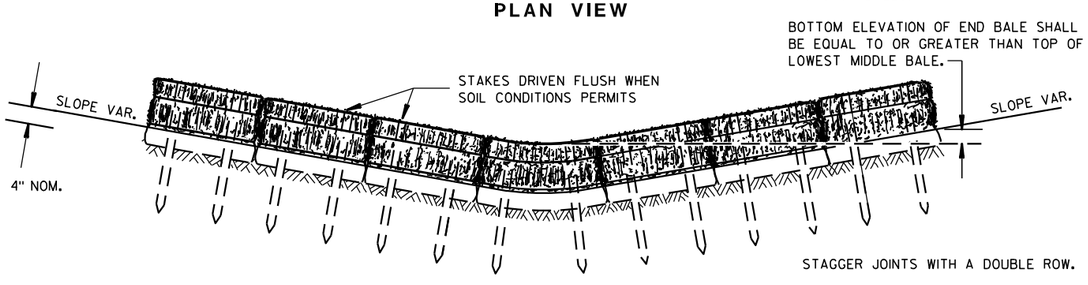
6



SECTION A-A



PLAN VIEW



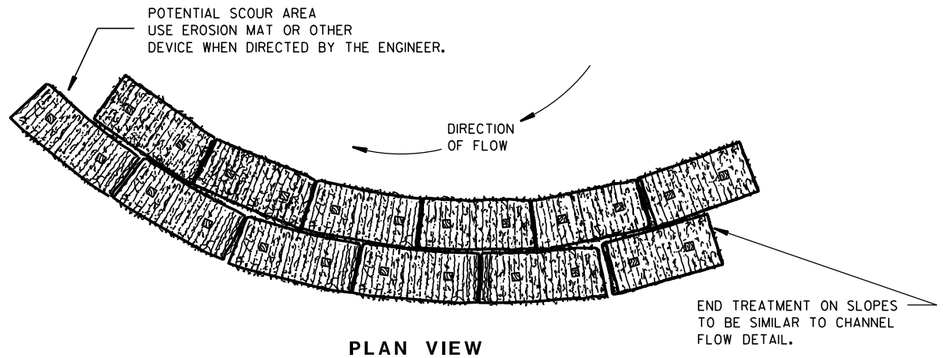
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

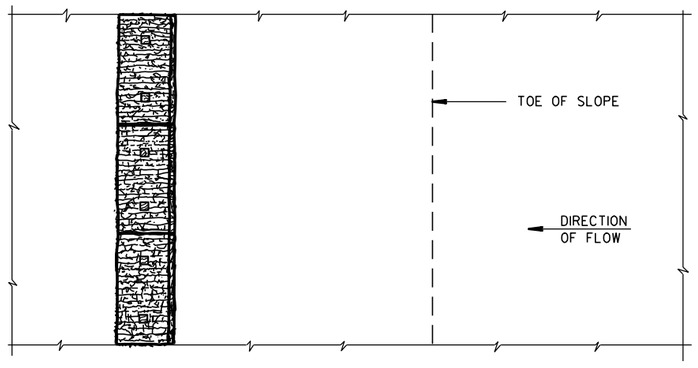
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

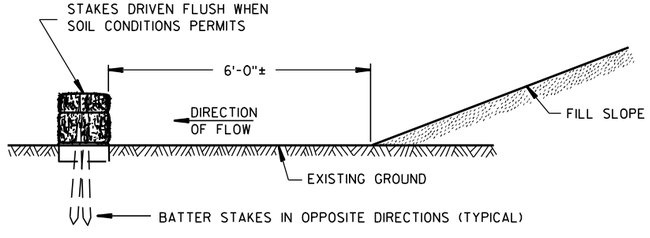


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

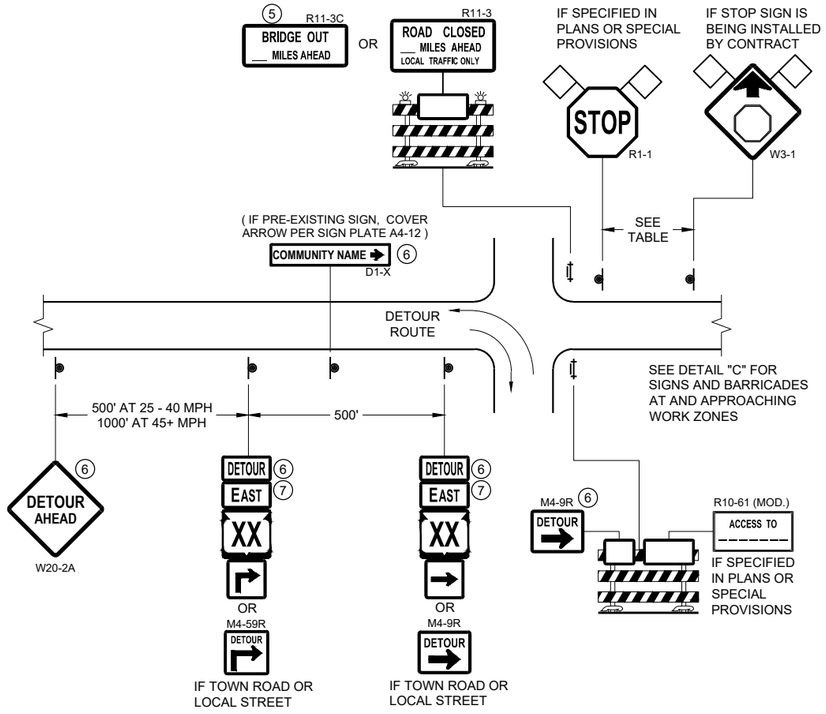
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

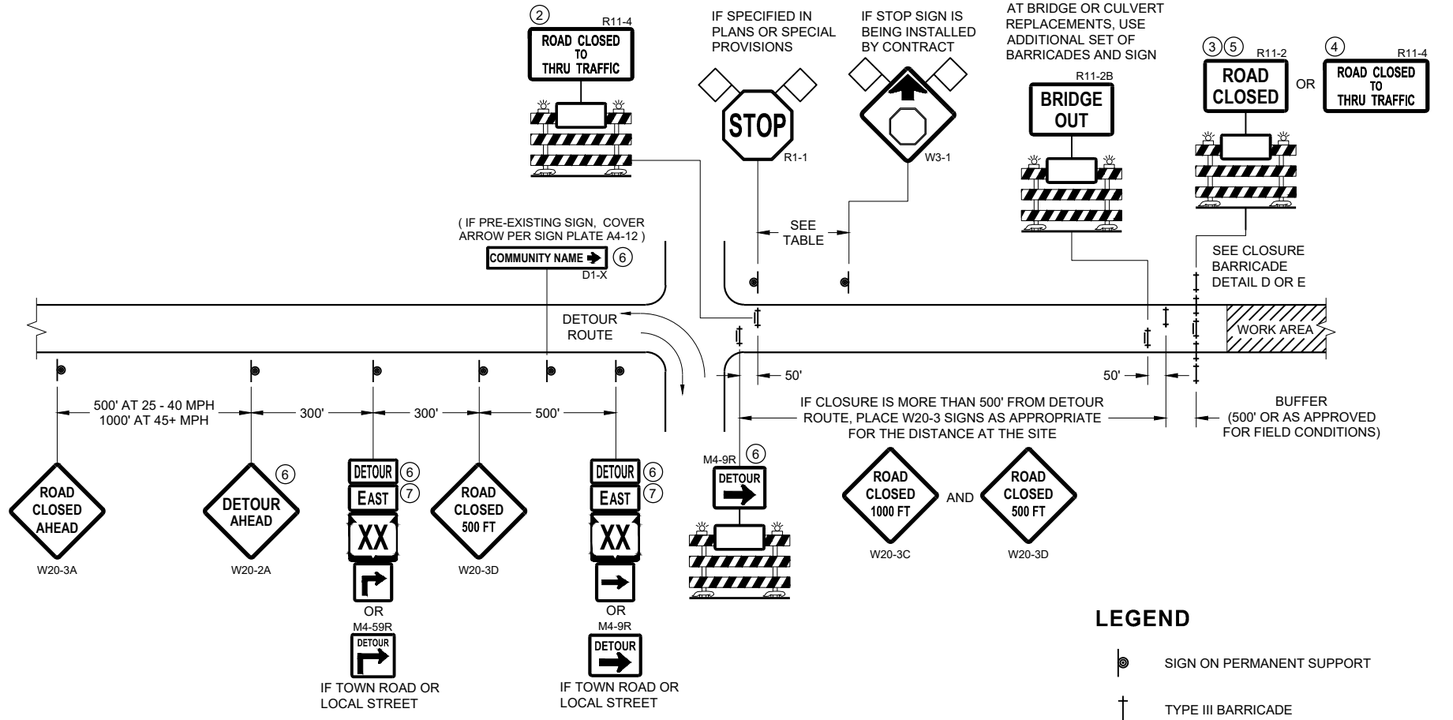
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

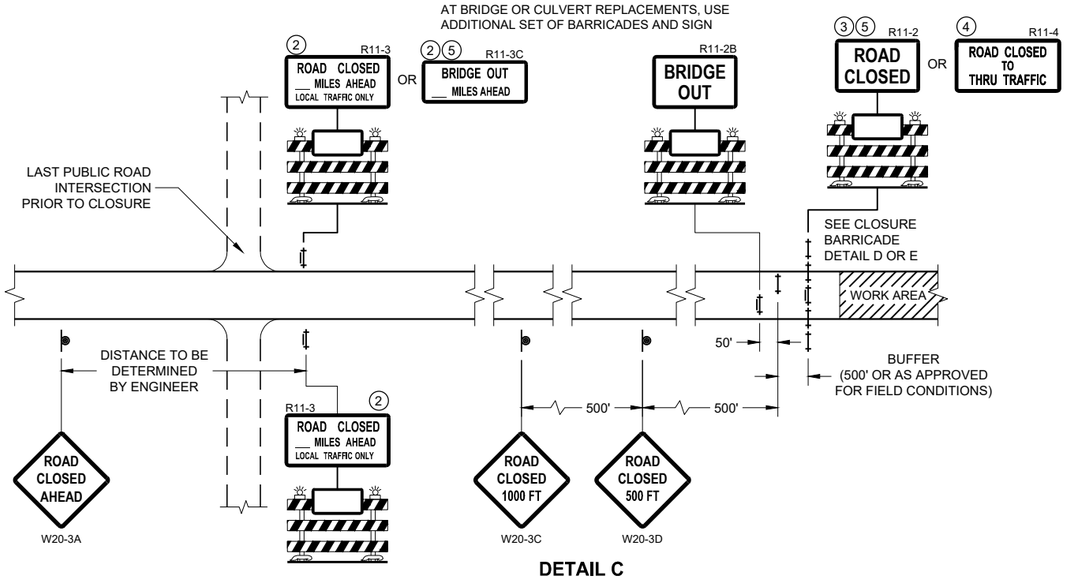
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA





DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

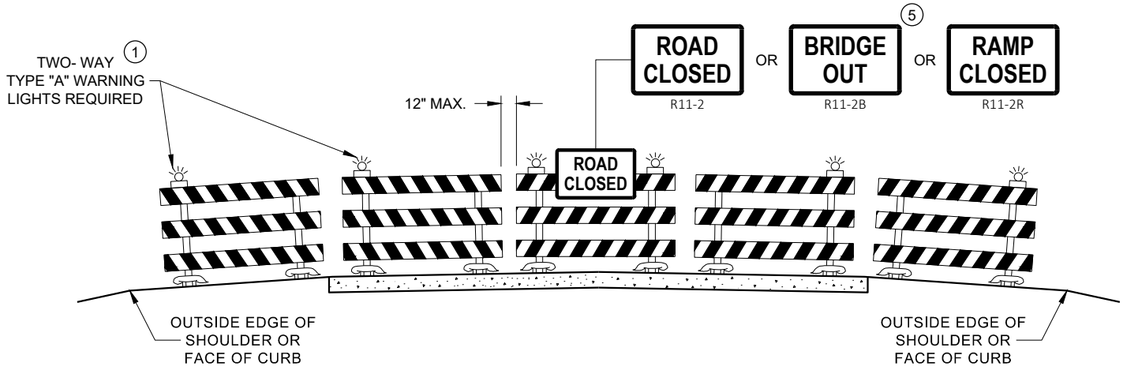
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

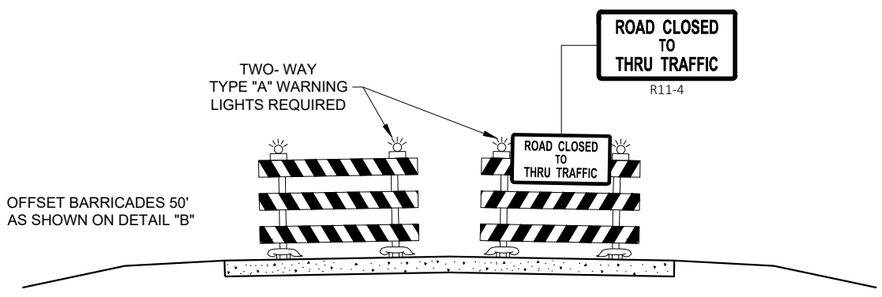
6

SDD 15C02 - 07a

SDD 15C02 - 07a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 07b

6

SDD 15C02 - 07b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

MATCH POINT

** M4-59L DETOUR OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

** M4-9L DETOUR OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

500'

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR WEST XX

DETOUR WEST XX M4-9R DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * M4-59R DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

DETOUR EAST XX

DETOUR EAST XX

DETOUR EAST XX *

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

EAST XX M3-X 24" X 12" M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

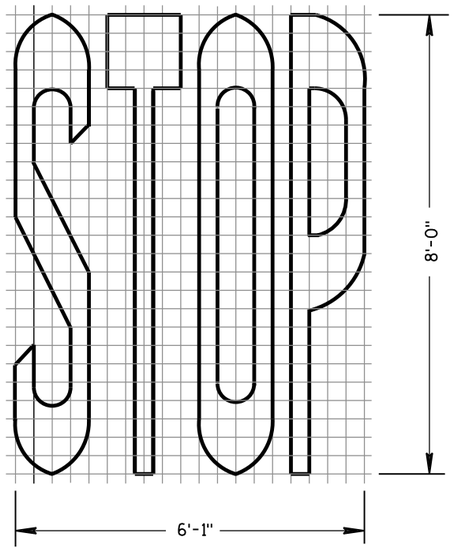
FHWA

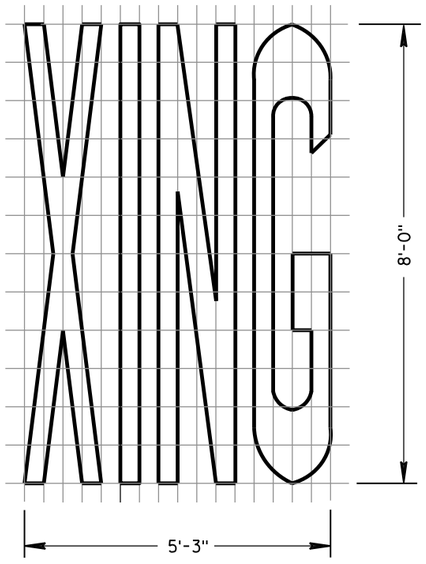
SDD 15C02 - 07c

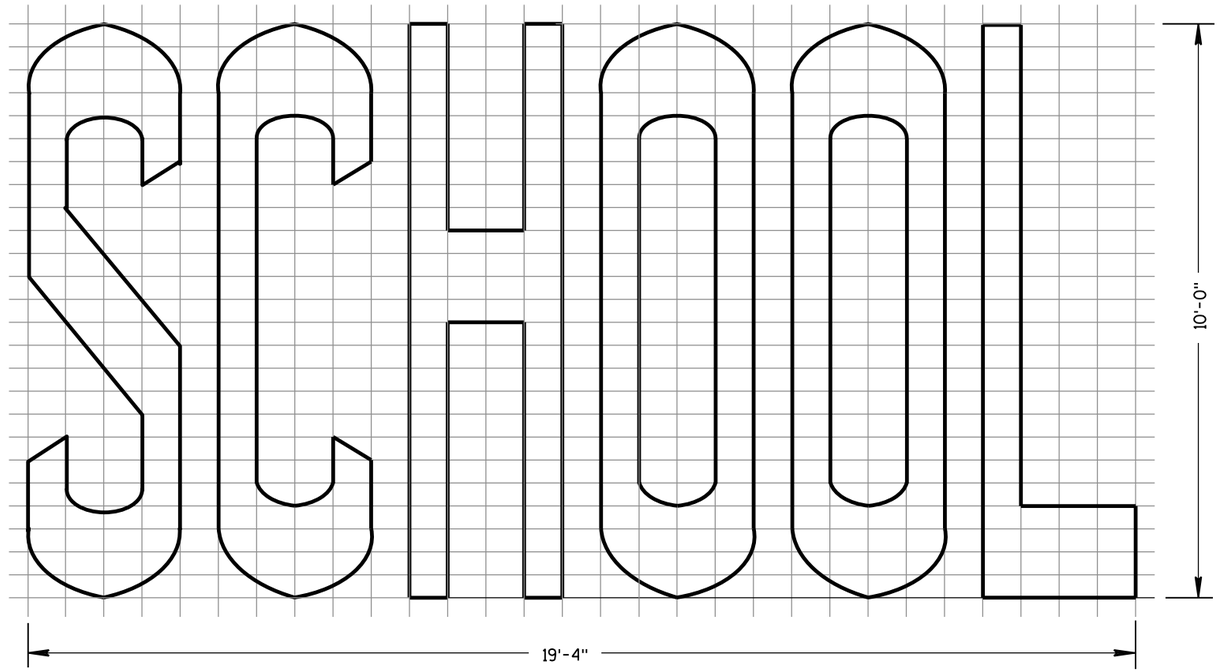
6

GENERAL NOTES

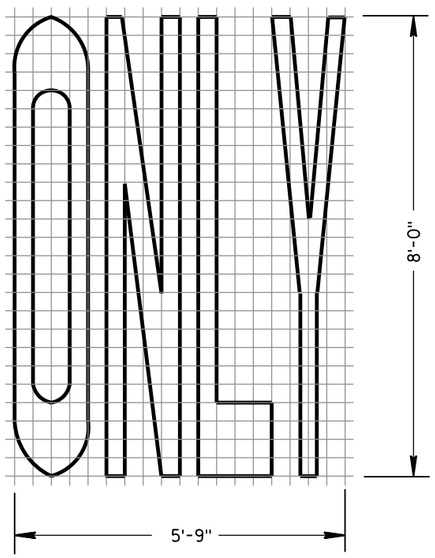
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

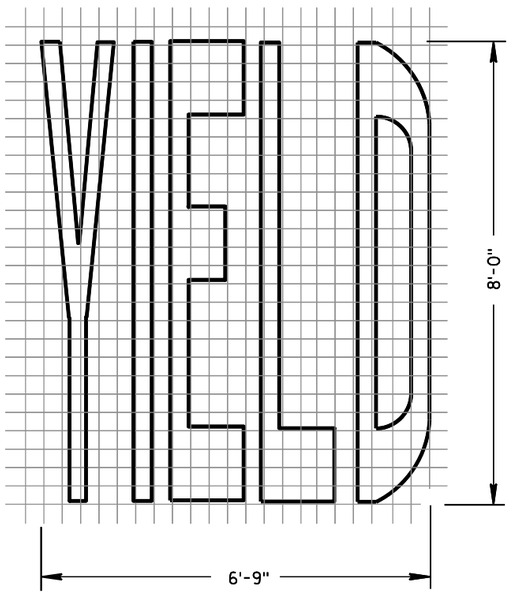


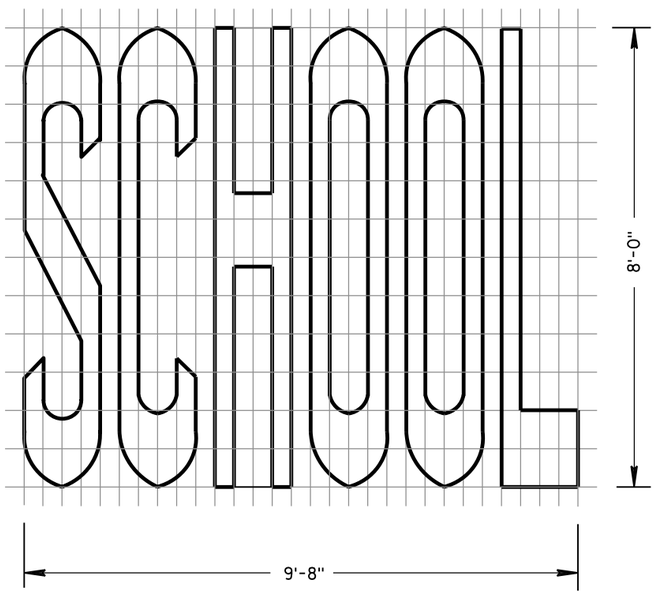




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARK

EER

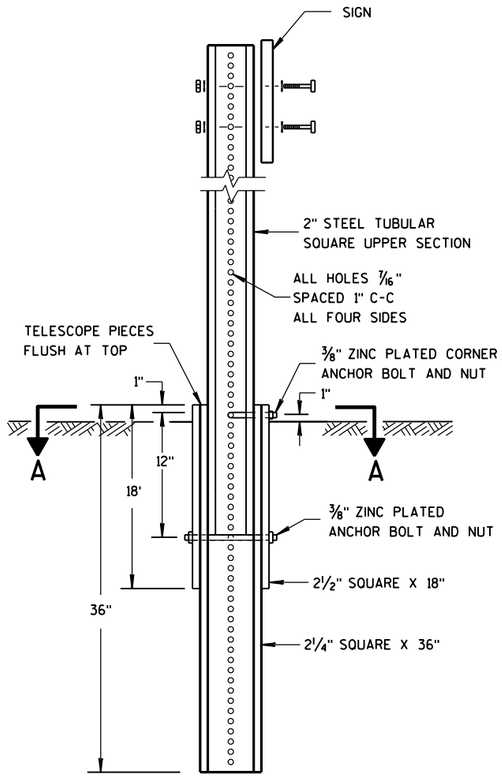
FHWA

6

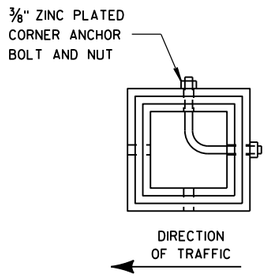
S.D.D. 15 C 7-14b

6

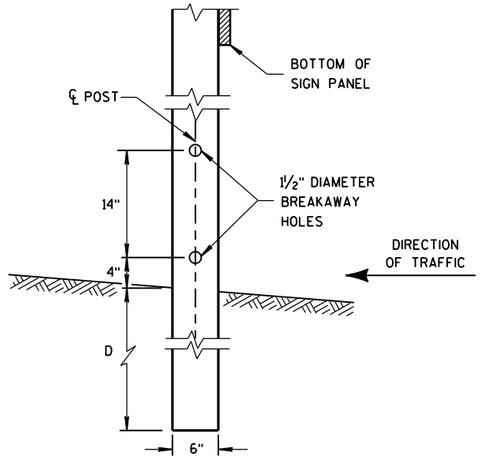
S.D.D. 15 C 7-14b



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



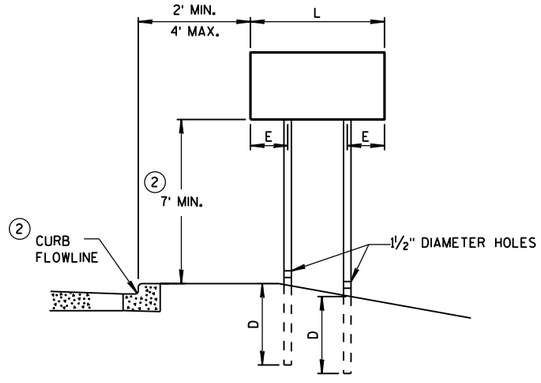
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

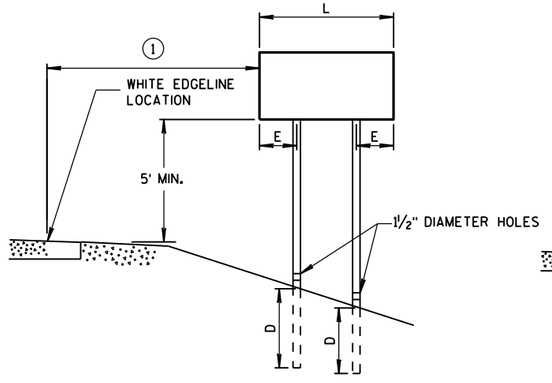
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

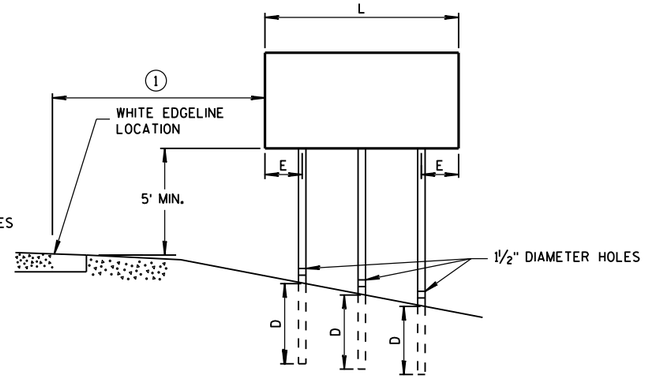
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

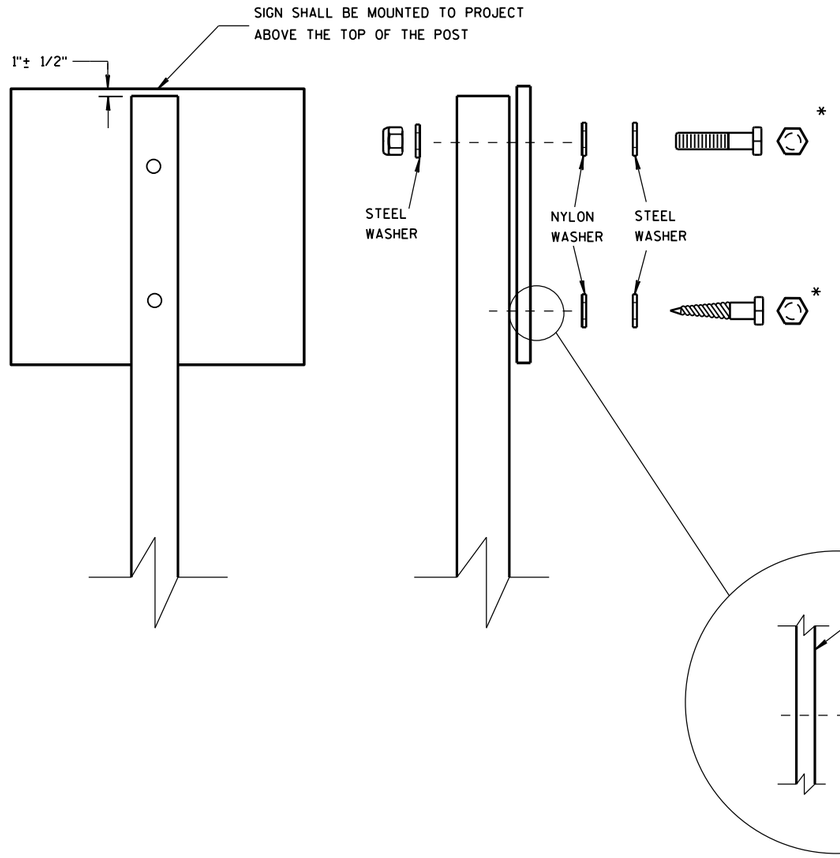
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

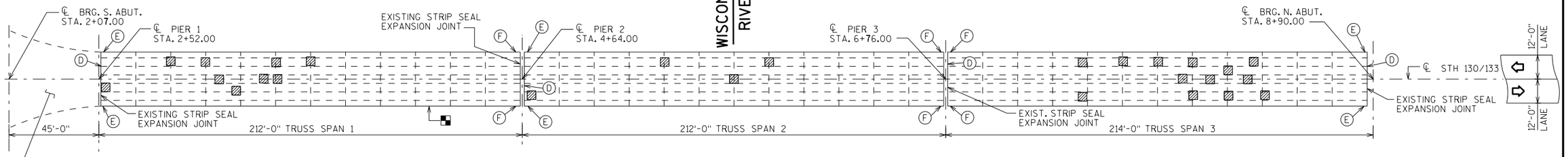
FHWA

STATE PROJECT NUMBER

5770-01-61

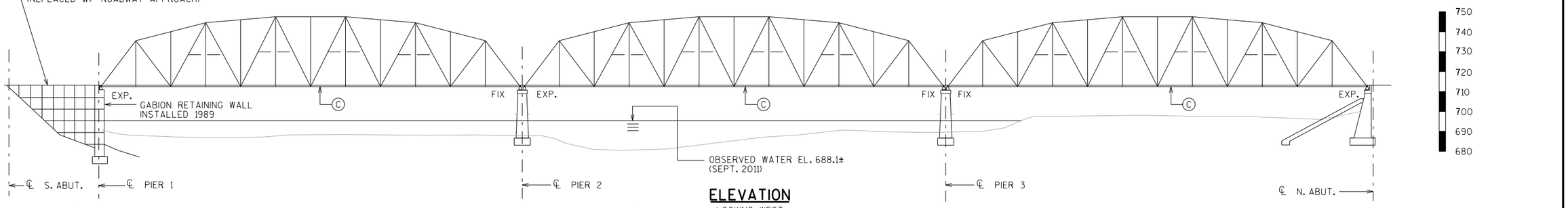
REPAIR ALL EXISTING PATCHED SPALLS ON DECK. WORK TO BE INCLUDED IN "CONCRETE MASONRY DECK REPAIR" BID ITEM. PREPARATION FOR DECK REPAIR TO BE INCLUDED IN THE "SAWING PAVEMENT DECK PREPARATION AREAS", "PREPARATION DECKS TYPE 1", AND "PREPARATION DECKS TYPE 2" BID ITEMS.

EXISTING ELECTRICAL CONDUIT TO BE PRESERVED & MAINTAINED



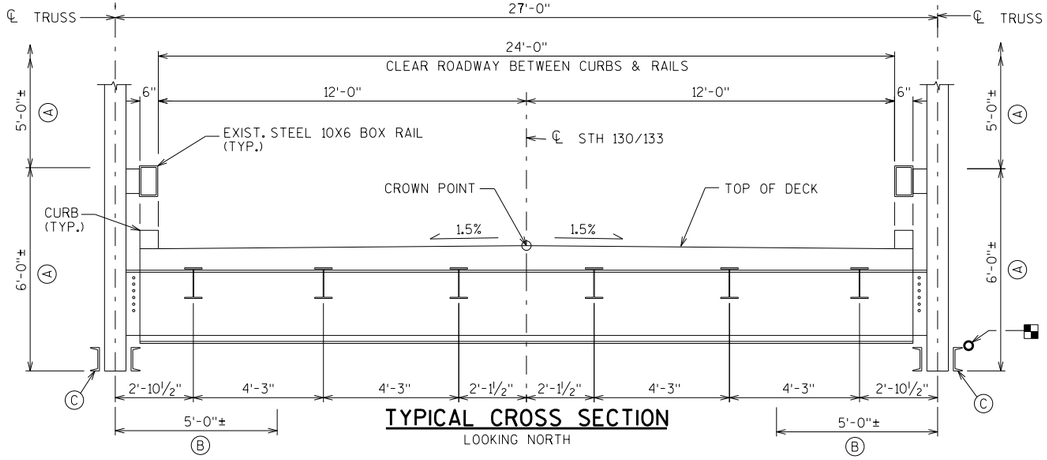
PLAN

THREE SPAN OVERHEAD STEEL TRUSS



ELEVATION

LOOKING WEST



TYPICAL CROSS SECTION

LOOKING NORTH

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

PREPARATION DECKS TYPE 1 AND PREPARATION DECKS TYPE 2 ARE BASED ON FIELD MEASUREMENTS AND AS DETRMINED BY THE ENGINEER. DECK PREPARATION SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS, ORIGINAL SHOP DRAWINGS, & 1989 RE-DECKING PLANS.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

THE COLOR OF PAINT SHALL BE LIGHT GREY (FEDERAL STANDARD COLOR NO. 26293) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

ALL FIELD CONNECTIONS SHALL BE MADE WITH ¾" A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE NOTED OR SHOWN.

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

PAINT LEGEND

SPOT CLEAN AND PAINT:

- (A) ALL TRUSS ELEMENTS 6'-0"± FROM BOTTOM CHORD TO TOP OF RAIL AND 5'-0"± ABOVE TOP OF RAIL, ENTIRE LENGTH OF BRIDGE.
- (B) ALL FLOORBEAMS AND CONNECTION ELEMENTS 5'-0"± IN FROM TRUSSES ON BOTH ENDS, ENTIRE LENGTH OF BRIDGE. (STRINGERS EXCLUDED)
- (C) ALL BOTTOM CHORD TRUSS ELEMENTS, ENTIRE LENGTH OF BRIDGE.
- (D) BOTTOM FLANGE OF FLOOR BEAMS BELOW ALL EXPANSION JOINTS.
- (E) ALL 6 EXPANSION BEARINGS.
- (F) ALL 6 FIXED BEARINGS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	70
509.0301	PREPARATION DECKS TYPE 1	SY	14
509.0302	PREPARATION DECKS TYPE 2	SY	6
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	140
509.1200	CURB REPAIR	LF	100
509.1500	CONCRETE SURFACE REPAIR	SF	400
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	1
SPV.0060	REMOVING RIVETS	EACH	10
SPV.0060	BATTEN PLATE REPAIR B-25-81	EACH	10
SPV.0105	STRUCTURE SPOT CLEANING AND PAINTING STRUCTURE B-25-81	LS	1

DESIGN DATA:

LIVE LOAD:

INVENTORY RATING: HS15
OPERATING RATING: HS25
WISCONSIN STANDARD PERMIT VEHICLE (WisSPV) = 140 kips

MATERIAL PROPERTIES:

CONCRETE MASONRY:
ALL: f'c = 4,000 PSI

BAR STEEL REINFORCEMENT:
GRADE 60 ——— fy = 60,000 psi

STRUCTURAL CARBON STEEL
ASTM A709, GRADE 36 ——— F,=36,000 PSI

TRAFFIC DATA:

A.D.T. = 2,200 (2010)
A.D.T. = 2,900 (2040)
R.D.S = 60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN & STRUCTURE PAINTING
2. SPAN 1 REPAIR SUMMARY
3. SPAN 2 REPAIR SUMMARY
4. SPAN 3 REPAIR SUMMARY
5. STEEL REPAIR DETAILS 1
6. STEEL REPAIR DETAILS 2
7. STEEL REPAIR DETAILS 3
8. STEEL REPAIR DETAILS 4
9. PIER 1 REPAIR DETAILS
10. PIER 2 REPAIR DETAILS
11. PIER 3 REPAIR DETAILS
12. N. ABUT. REPAIR DETAILS

STRUCTURE DESIGN CONTACTS:

DOMINIQUE BECHLE (608) 261-8205
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 12/9/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-25-81

STH 130/133 OVER WISCONSIN RIVER

COUNTY	TOWN/CITY/VILLAGE
IOWA	CLYDE

DESIGN SPEC. REHABILITATION - N/A

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
DMB	CAD	WWR	DMB

GENERAL PLAN & STRUCTURE PAINTING

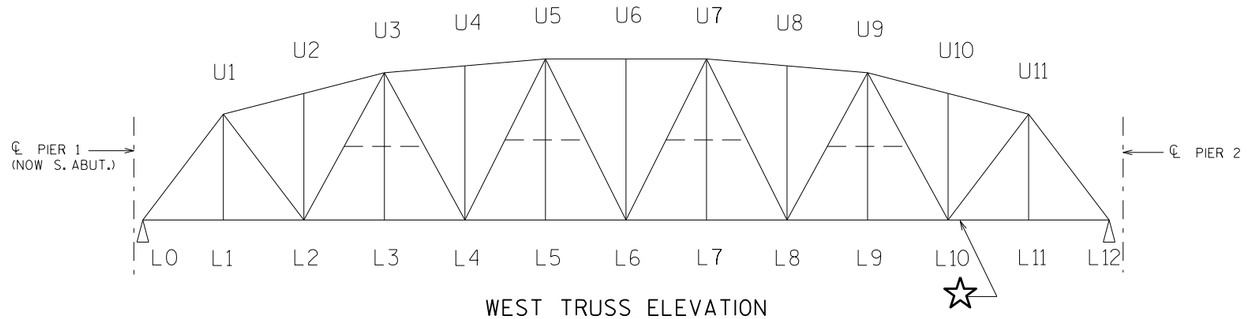
SHEET 1 OF 12

22

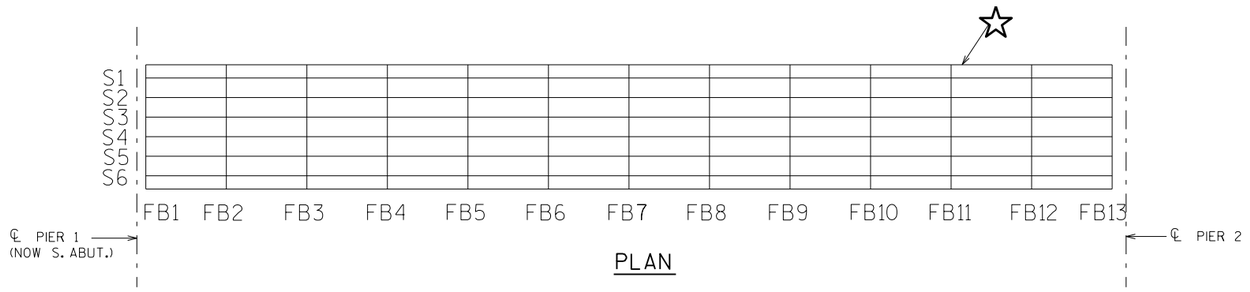
I.D. 5770-01-31C DATE: OCT. 2019

SCALE = 25.00

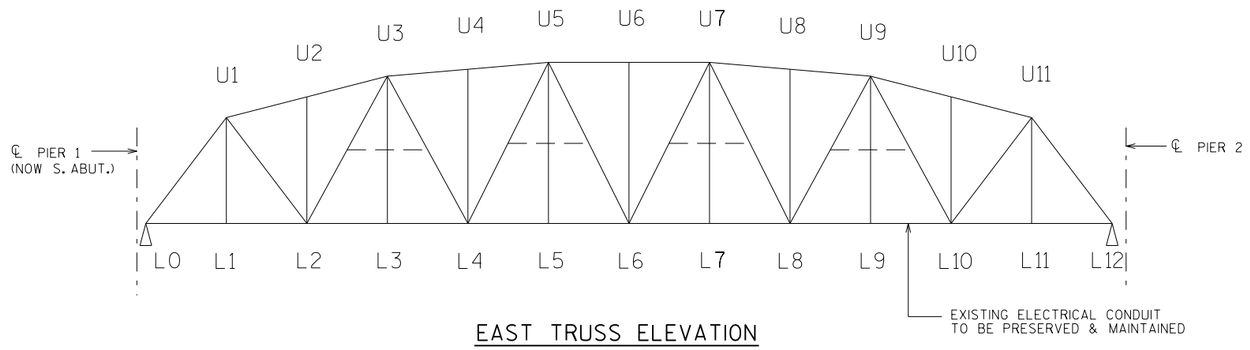
STATE PROJECT NUMBER
5770-01-61



WEST TRUSS ELEVATION
(LOOKING WEST)



PLAN



EAST TRUSS ELEVATION
(LOOKING WEST)

SPAN 1 REPAIRS SUMMARY

STEEL REPAIR NOTES:

REPLACE ANY EXISTING BATTEN PLATES THAT HAVE COMPLETE SECTION LOSS. ALL BATTEN PLATE REPLACEMENT MATERIAL & WORK SHALL BE INCLUDED IN BID ITEM "BATTEN PLATE REPAIR B-25-81", EACH. RIVET REMOVAL IS INCLUDED IN THIS ITEM, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISION.

BATTEN PLATE REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE FIELD ENGINEER.

REPLACE ANY EXISTING RIVETS THAT HAVE MISSING RIVET HEADS WITH $\frac{3}{4}$" DIA. A325 HIGH TENSILE STRENGTH BOLTS. ALL RIVET REMOVAL WORK & REPLACEMENT BOLTS SHALL BE INCLUDED IN THE BID ITEM "REMOVING RIVETS", EACH. RIVET REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. ADDITIONAL LOWER CHORD RIVET REPLACEMENTS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES.

REPAIR LEGEND

☆ REPLACE LOWER BATTEN PLATE. SEE "STEEL REPAIR DETAILS 1" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

SPAN 1 REPAIR SUMMARY

SHEET 2

23

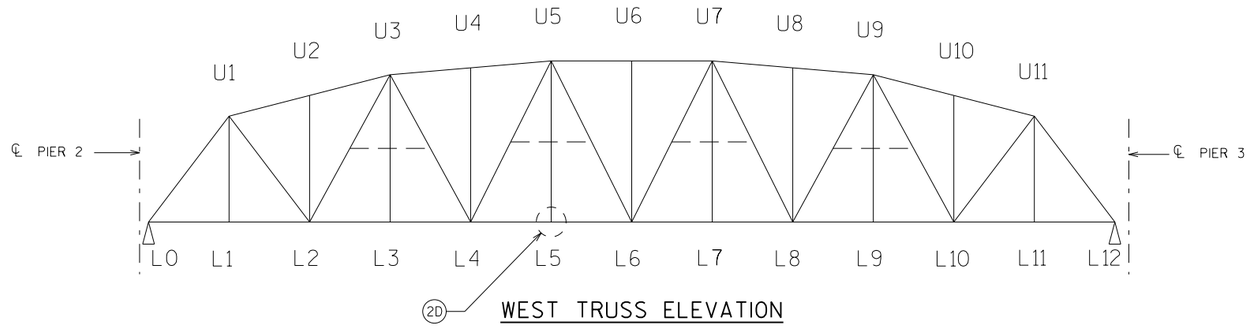
SCALE = 16.00

8

8

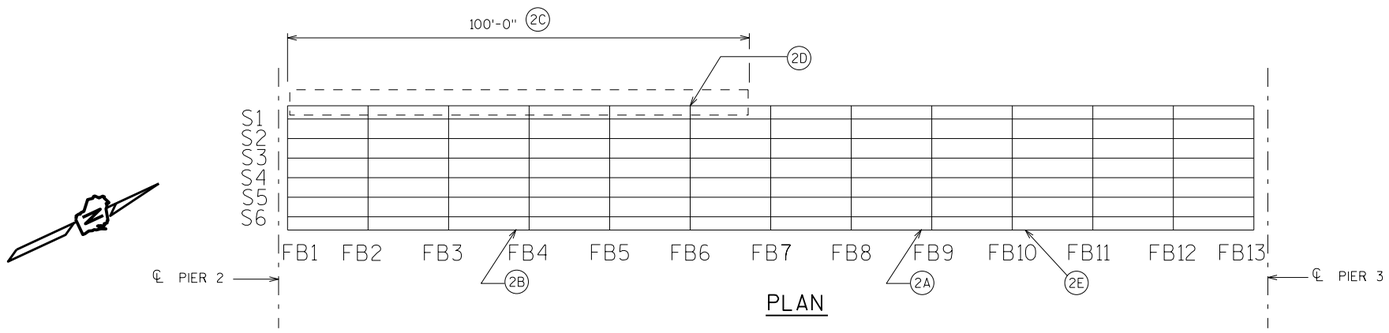
STATE PROJECT NUMBER

5770-01-61



WEST TRUSS ELEVATION

(LOOKING WEST)

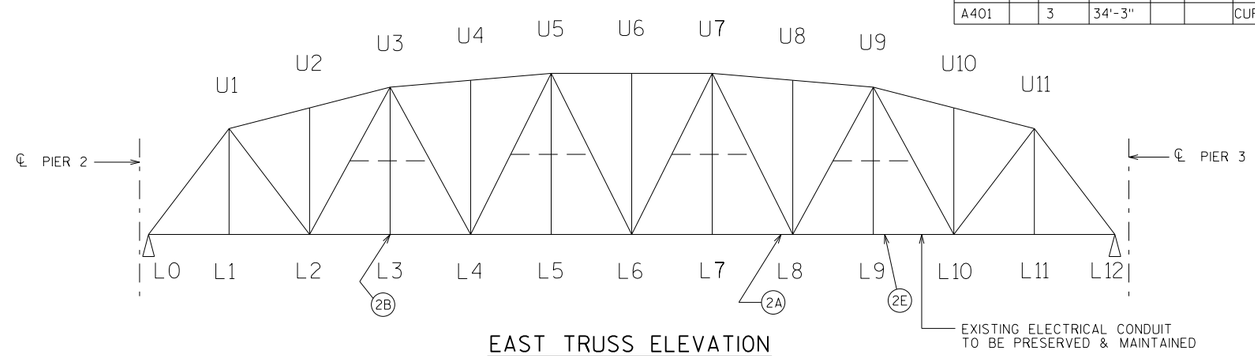


PLAN

BILL OF BARS

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A401		3	34'-3"			CURB-HORIZ.-W.SIDE SPAN 2



EAST TRUSS ELEVATION

(LOOKING WEST)

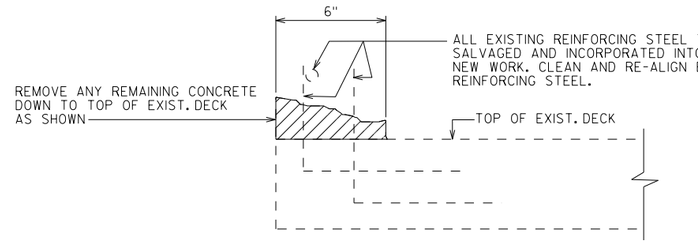
SPAN 2 REPAIRS SUMMARY

STEEL REPAIR NOTES:

REPLACE ANY EXISTING BATTEN PLATES THAT HAVE COMPLETE SECTION LOSS. ALL BATTEN PLATE REPLACEMENT MATERIAL & WORK SHALL BE INCLUDED IN BID ITEM "BATTEN PLATE REPAIR B-25-81", EACH. RIVET REMOVAL IS INCLUDED IN THIS ITEM, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISION.

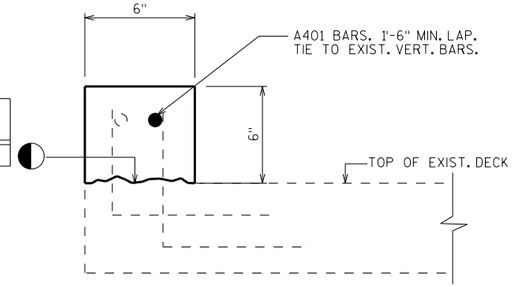
BATTEN PLATE REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE FIELD ENGINEER.

REPLACE ANY EXISTING RIVETS THAT HAVE MISSING RIVET HEADS WITH ¾" DIA. A325 HIGH TENSILE STRENGTH BOLTS. ALL RIVET REMOVAL WORK & REPLACEMENT BOLTS SHALL BE INCLUDED IN THE BID ITEM "REMOVING RIVETS", EACH. RIVET REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. ADDITIONAL LOWER CHORD RIVET REPLACEMENTS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES.



SECTION THRU EXISTING CURB

SHOWING REMOVAL



SECTION THRU NEW CURB

◐ ROUGHEN SURFACE OF CONCRETE ¼" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE. CLEAN SURFACE WITH HIGH PRESSURE AIR OR WATER TO REMOVE ALL LOOSE PARTICLES AND DUST PRIOR TO POURING NEW CONCRETE.

REPAIR LEGEND

(2A) REPLACE LOWER BATTEN PLATE. SEE "STEEL REPAIR DETAILS 2" SHEET.

(2B) REPLACE UPPER BATTEN PLATE. SEE "STEEL REPAIR DETAILS 2" SHEET.

(2C) REPLACE CONCRETE CURB. SEE CURB DETAILS ON THIS SHEET. WORK SHALL BE INCLUDED IN THE "CURB REPAIR" BID ITEM.

(2D) REPAIR CONNECTION. SEE "STEEL REPAIR DETAILS 4" SHEET.

(2E) REPLACE LOWER BATTEN PLATE. SEE "STEEL REPAIR DETAILS 2" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

SPAN 2 REPAIR SUMMARY

SHEET 3

24

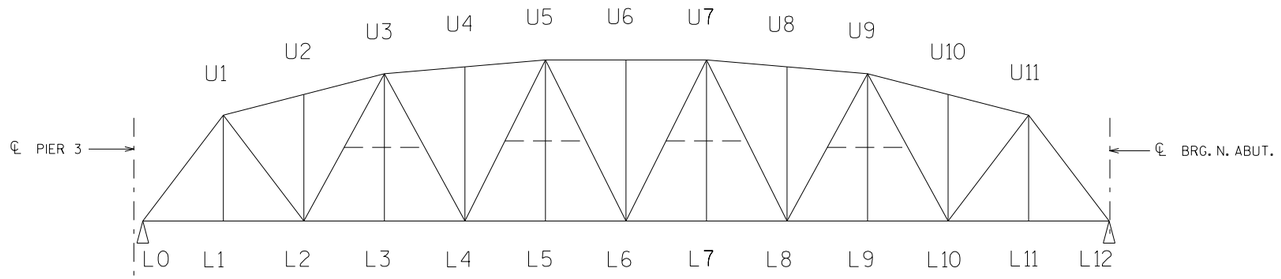
SCALE = 16.00

8

8

STATE PROJECT NUMBER

5770-01-61



WEST TRUSS ELEVATION
(LOOKING WEST)

STEEL REPAIR NOTES:

REPLACE ANY EXISTING BATTEN PLATES THAT HAVE COMPLETE SECTION LOSS. ALL BATTEN PLATE REPLACEMENT MATERIAL & WORK SHALL BE INCLUDED IN BID ITEM "BATTEN PLATE REPAIR B-25-81", EACH. RIVET REMOVAL IS INCLUDED IN THIS ITEM, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISION.

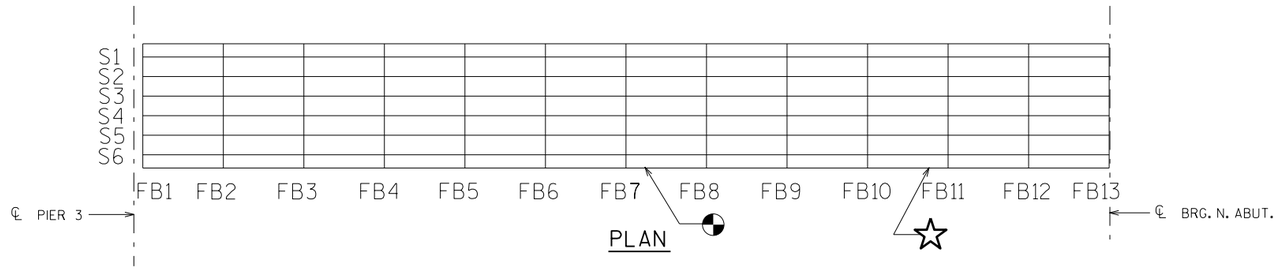
BATTEN PLATE REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE FIELD ENGINEER.

REPLACE ANY EXISTING RIVETS THAT HAVE MISSING RIVET HEADS WITH ¾" DIA. A325 HIGH TENSILE STRENGTH BOLTS. ALL RIVET REMOVAL WORK & REPLACEMENT BOLTS SHALL BE INCLUDED IN THE BID ITEM "REMOVING RIVETS", EACH. RIVET REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. ADDITIONAL LOWER CHORD RIVET REPLACEMENTS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES.

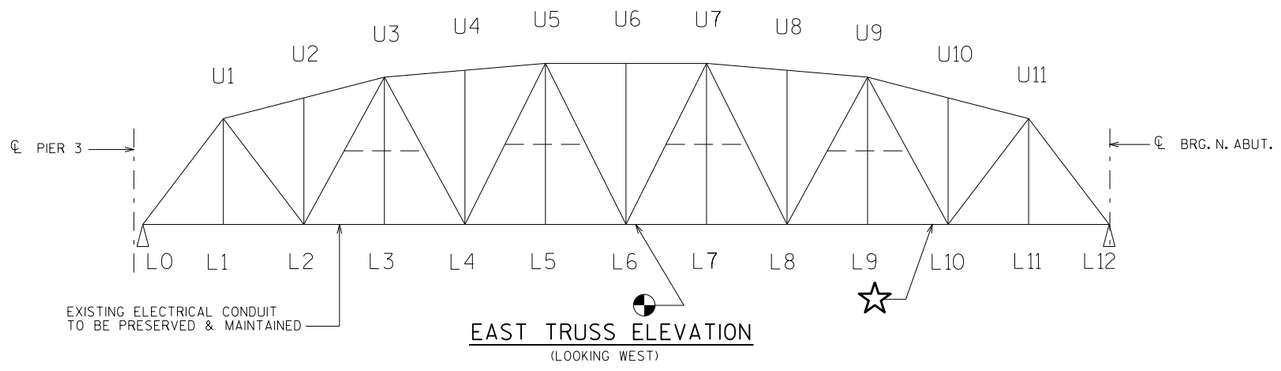
REPAIR LEGEND

☆ REPLACE LOWER BATTEN PLATE. SEE "STEEL REPAIR DETAILS 3" SHEET.

◔ REPAIR CONNECTION. SEE "STEEL REPAIR DETAILS 4" SHEET.



PLAN



EAST TRUSS ELEVATION
(LOOKING WEST)

SPAN 3 REPAIRS SUMMARY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

SPAN 3 REPAIR SUMMARY

SHEET 4

25

SCALE = 16.00

8

8

STATE PROJECT NUMBER

5770-01-61

NOTES:

ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN THE BID ITEM "BATTEN PLATE REPAIR B-25-81", EACH. RIVET REMOVAL & REPLACEMENT IS INCLUDED IN THIS ITEM AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISIONS.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS.

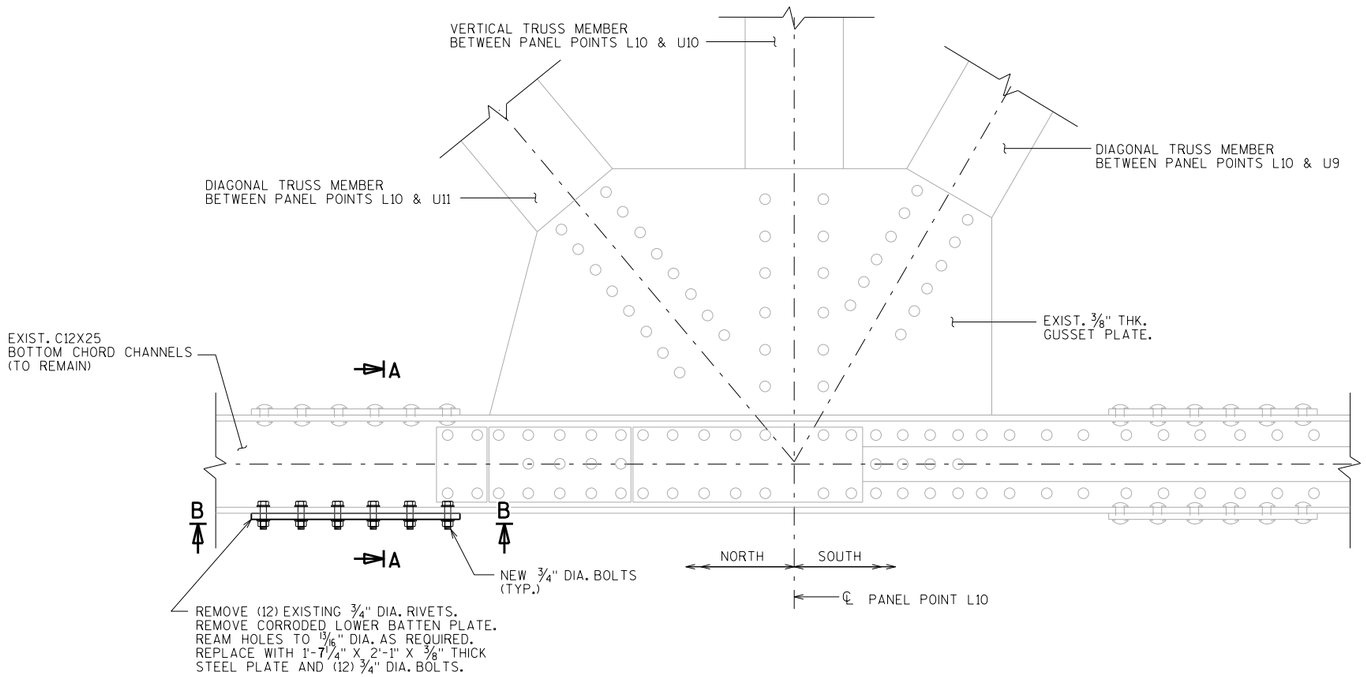
NEW STEEL PIECES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES.

PLATE AND STEEL SHALL CONFORM TO ASTM A709 GRADE 36 OR 50.

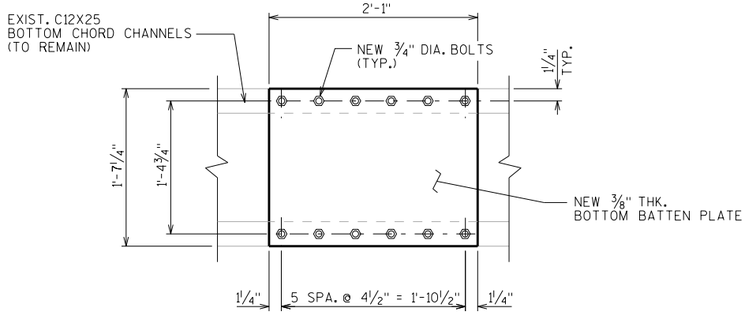
FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-25-81".

DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND SHOP DRAWINGS. ALL LOCATIONS AND DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE FABRICATION.

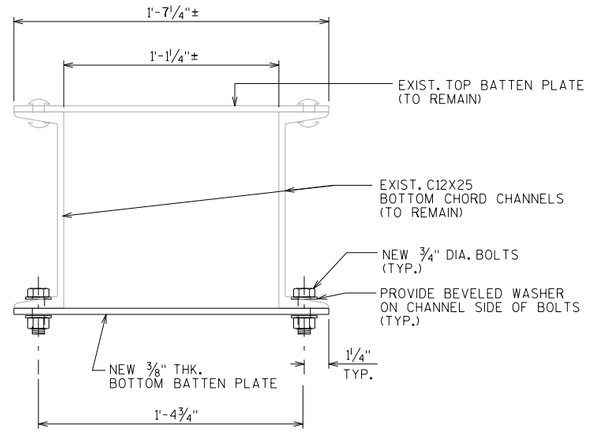
REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE FIELD ENGINEER.



SPAN 1 WEST TRUSS ELEVATION - LOOKING EAST



SECTION B-B
(BOTTOM VIEW OF NEW BATTEN PLATE)



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

STEEL REPAIR DETAILS 1

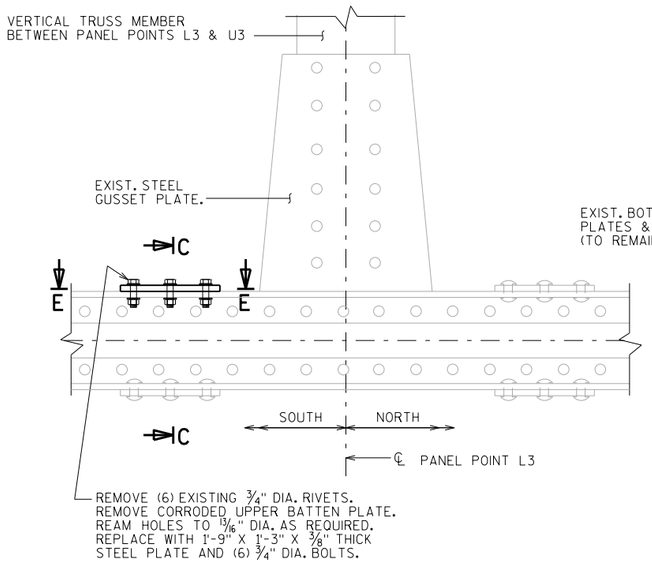
SHEET 5

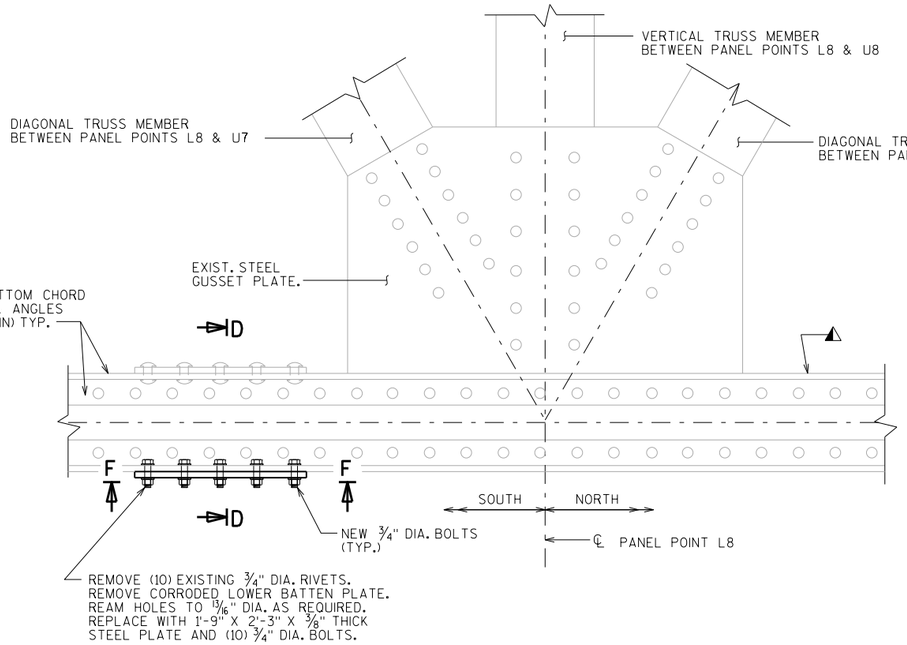
26

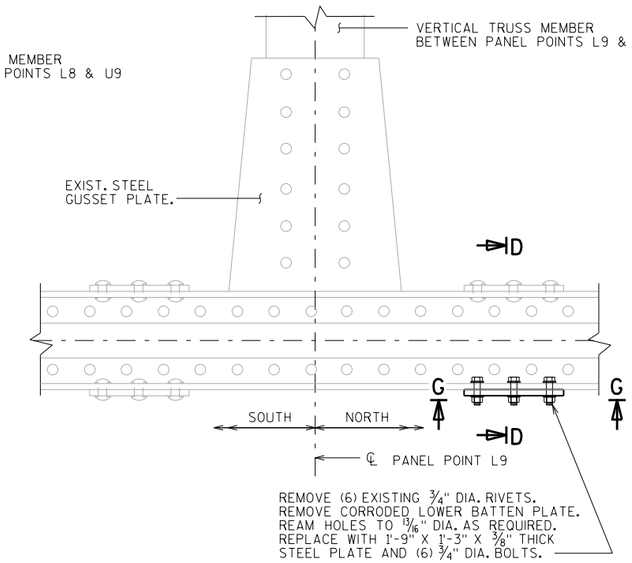
SCALE = 0.75

STATE PROJECT NUMBER

5770-01-61

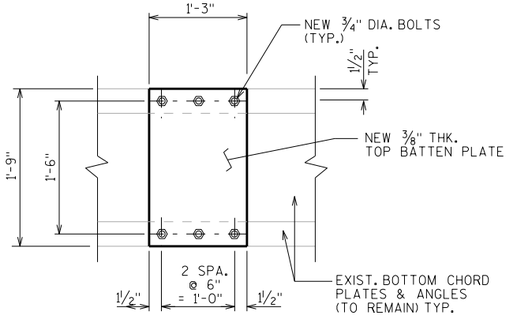






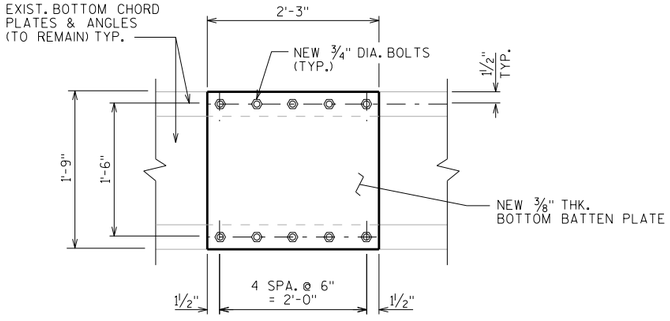
SPAN 2 EAST TRUSS ELEVATION - LOOKING WEST

⚠ EXISTING ELECTRICAL CONDUIT (NOT SHOWN FOR CLARITY) TO BE PRESERVED AND MAINTAINED.



SECTION E-E

(TOP VIEW OF NEW BATTEN PLATE)



SECTION F-F

(BOTTOM VIEW OF NEW BATTEN PLATE)

NOTES:

ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN THE BID ITEM "BATTEN PLATE REPAIR B-25-81", EACH. RIVET REMOVAL & REPLACEMENT IS INCLUDED IN THIS ITEM AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISIONS.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR ¾" DIA. BOLTS.

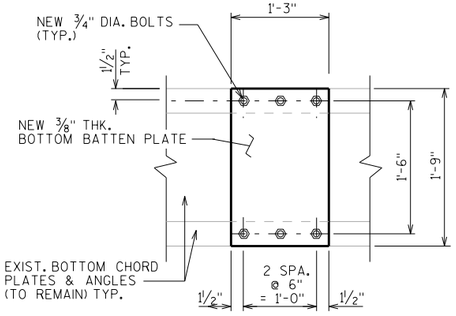
NEW STEEL PIECES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES.

PLATE AND STEEL SHALL CONFORM TO ASTM A709 GRADE 36 OR 50.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-25-81".

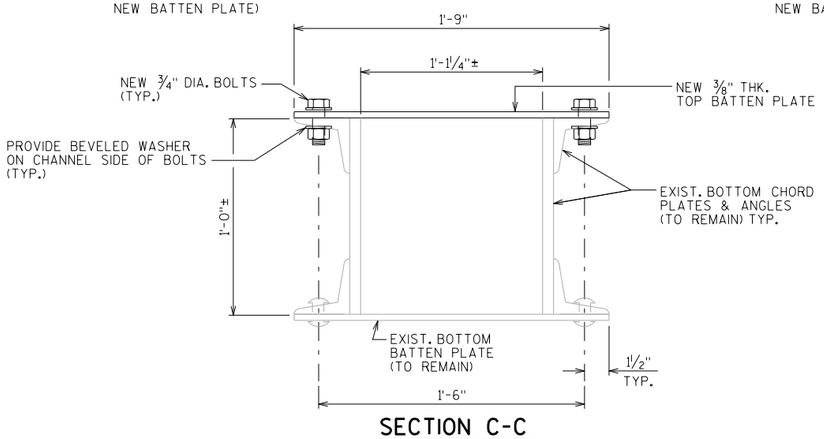
DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND SHOP DRAWINGS. ALL LOCATIONS AND DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE FABRICATION.

REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE FIELD ENGINEER.

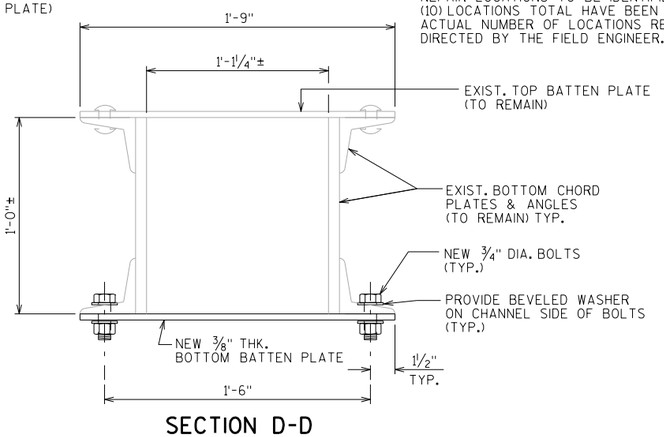


SECTION G-G

(BOTTOM VIEW OF NEW BATTEN PLATE)



SECTION C-C



SECTION D-D

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

STEEL REPAIR DETAILS 2

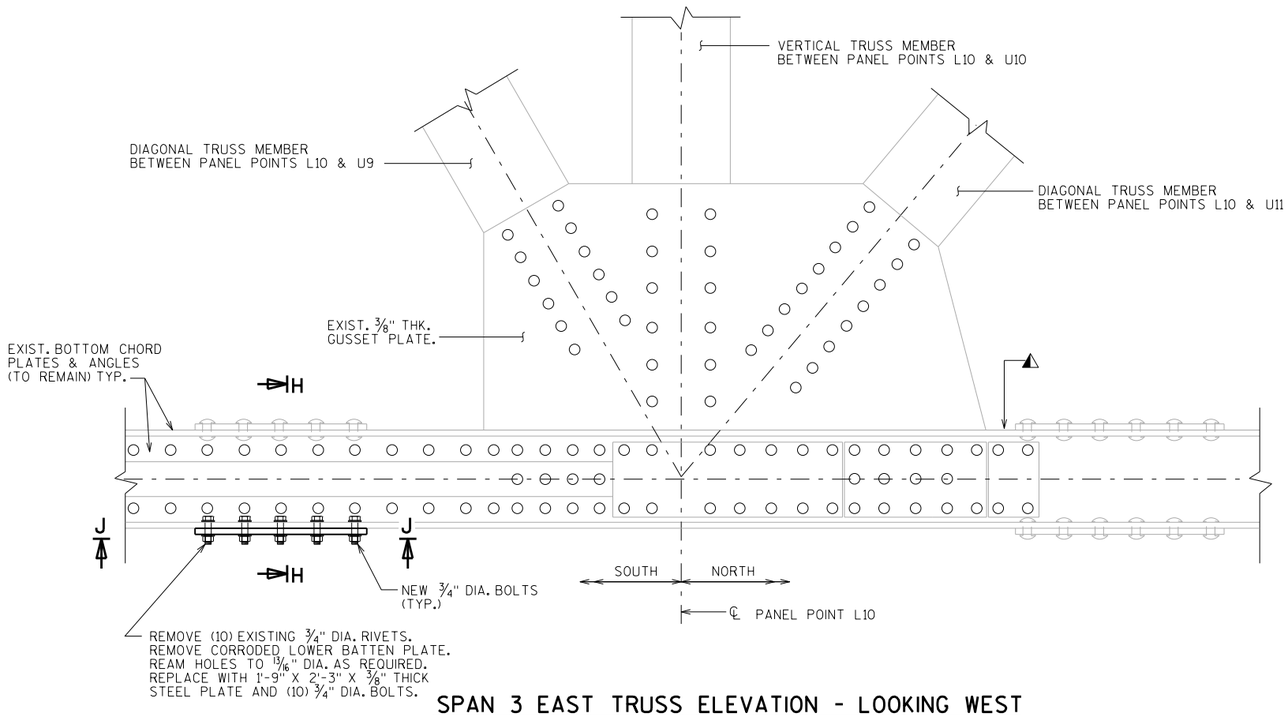
SHEET 6

27

SCALE = 0.75

STATE PROJECT NUMBER

5770-01-61



SPAN 3 EAST TRUSS ELEVATION - LOOKING WEST

⚠ EXISTING ELECTRICAL CONDUIT (NOT SHOWN FOR CLARITY) TO BE PRESERVED AND MAINTAINED.

NOTES:

ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN THE BID ITEM "BATTEN PLATE REPAIR B-25-81", EACH. RIVET REMOVAL & REPLACEMENT IS INCLUDED IN THIS ITEM AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISIONS.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS.

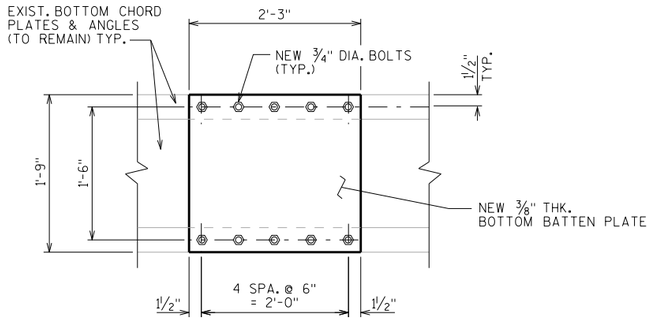
NEW STEEL PIECES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES.

PLATE AND STEEL SHALL CONFORM TO ASTM A709 GRADE 36 OR 50.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-25-81".

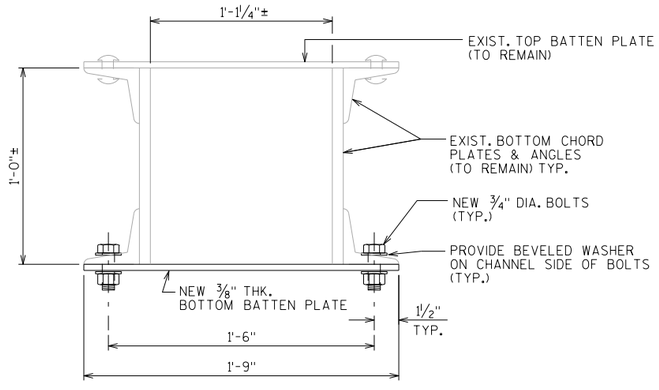
DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND SHOP DRAWINGS. ALL LOCATIONS AND DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE FABRICATION.

REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE FIELD ENGINEER.



SECTION J-J

(BOTTOM VIEW OF NEW BATTEN PLATE)



SECTION H-H

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

STEEL REPAIR DETAILS 3

SHEET 7

28

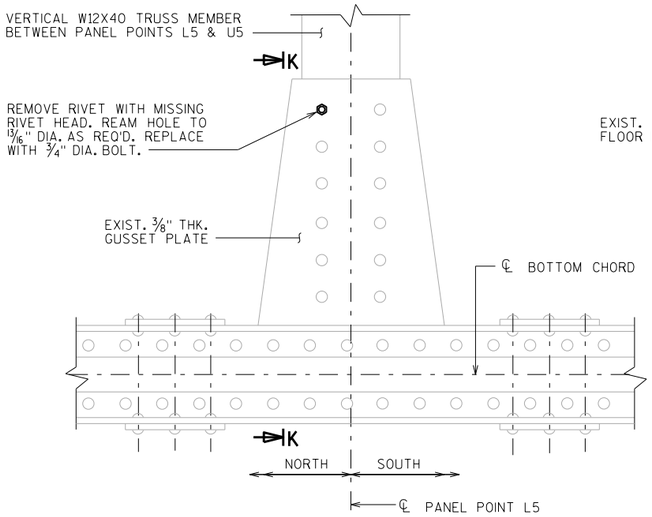
SCALE = 0.75

8

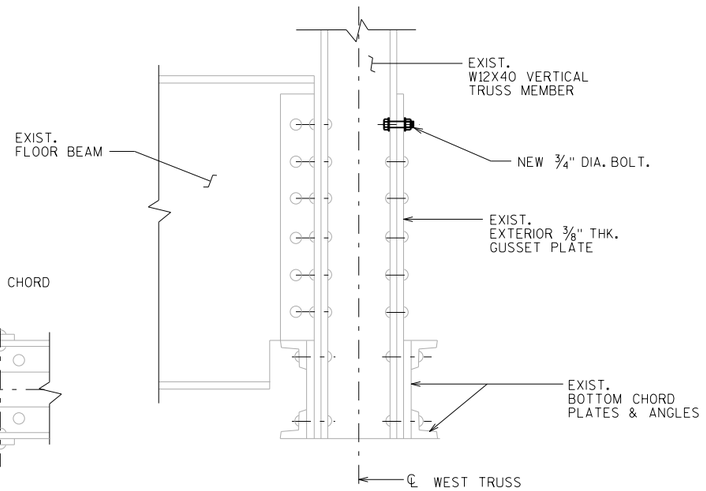
8

STATE PROJECT NUMBER

5770-01-61



SPAN 2 WEST TRUSS ELEVATION - LOOKING EAST



SECTION K-K

(LOOKING SOUTH)

NOTES:

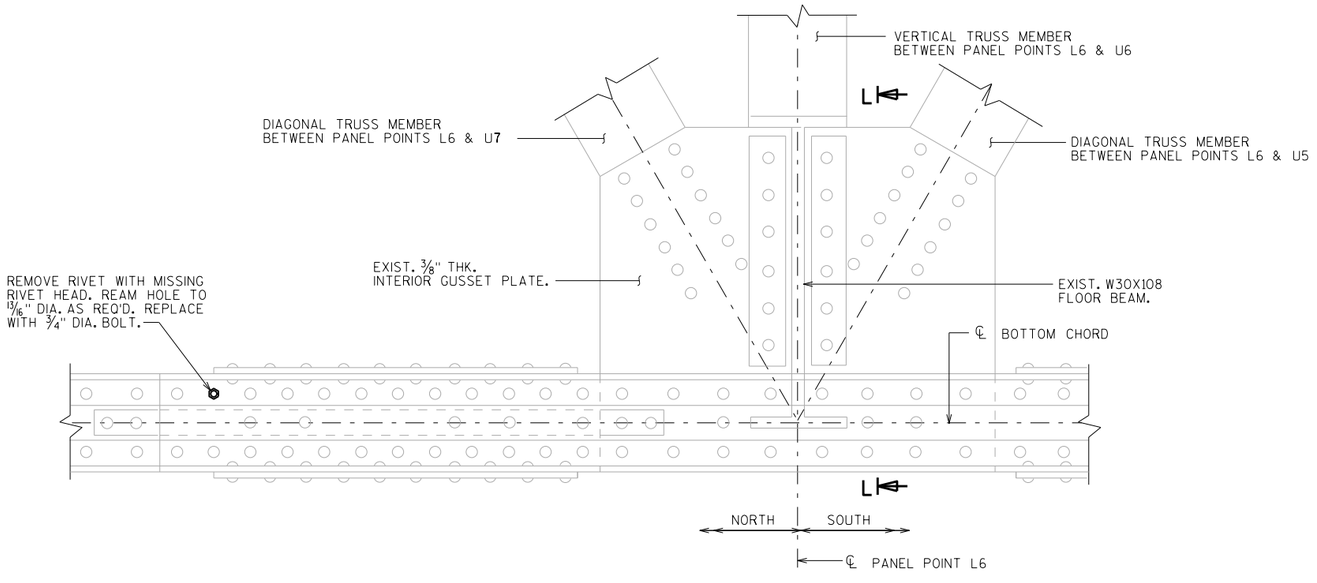
RIVET REMOVAL, HOLE REAMING, AND NEW BOLTS SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS".

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS.

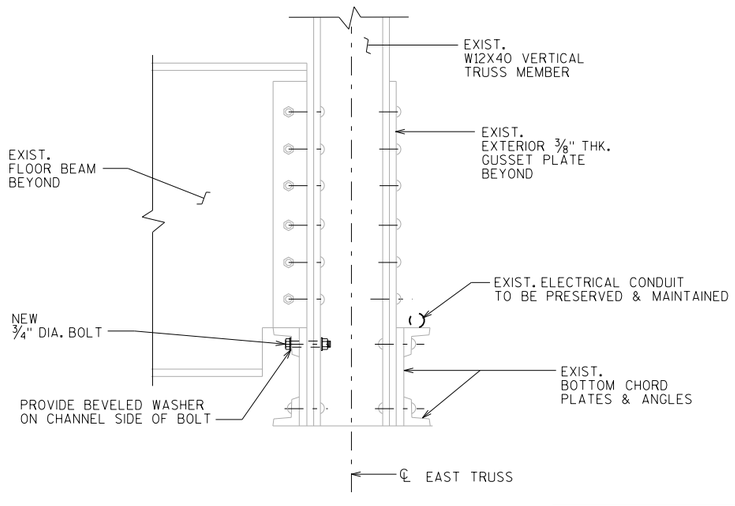
BOLTS SHALL BE 3/4" DIA. A325 HIGH TENSILE STRENGTH BOLTS.

RIVET REPLACEMENT LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. (10) LOCATIONS HAVE BEEN INCLUDED IN THE TOTAL QUANTITY FOR BID PURPOSES. ADDITIONAL LOWER CHORD RIVET REPLACEMENTS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

FIELD VERIFY RIVET REPLACEMENT LOCATIONS AND REQUIRED BOLT LENGTHS PRIOR TO ORDERING MATERIALS.



SPAN 3 EAST TRUSS (INSIDE) ELEVATION - LOOKING EAST



SECTION L-L

(LOOKING NORTH)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

STEEL REPAIR DETAILS 4

SHEET 8

29

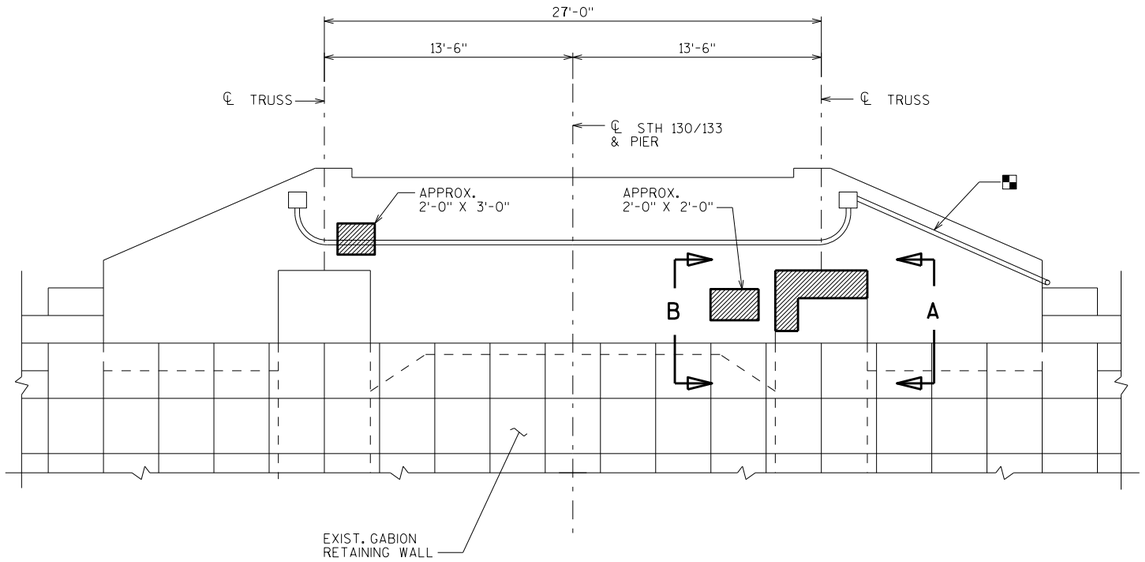
SCALE = 0.75

8

8

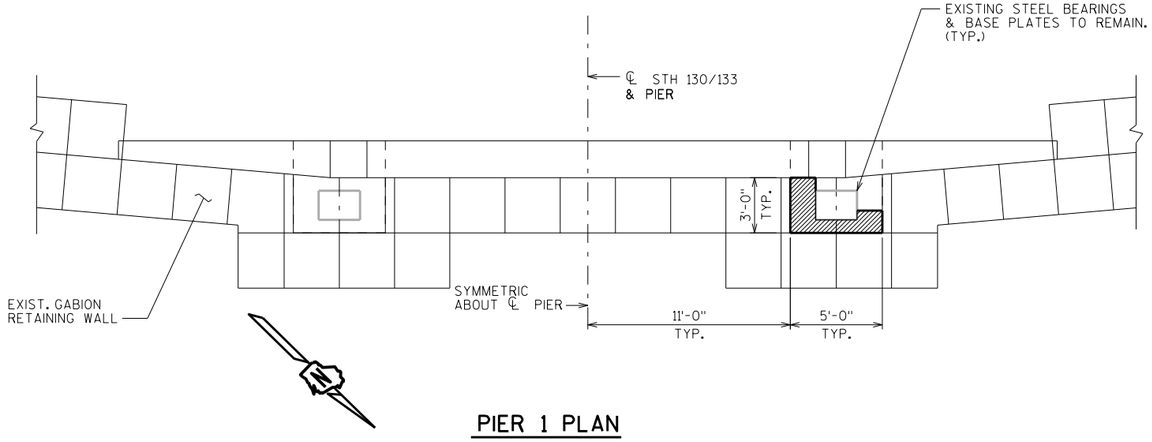
STATE PROJECT NUMBER

5770-01-61

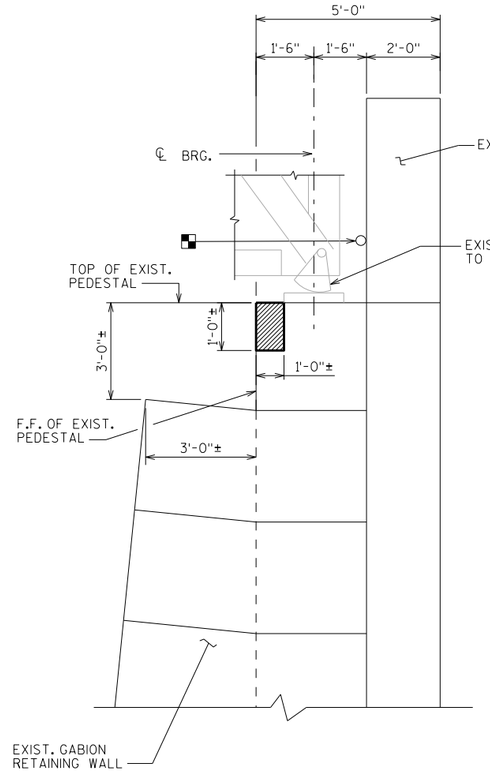


PIER 1 ELEVATION

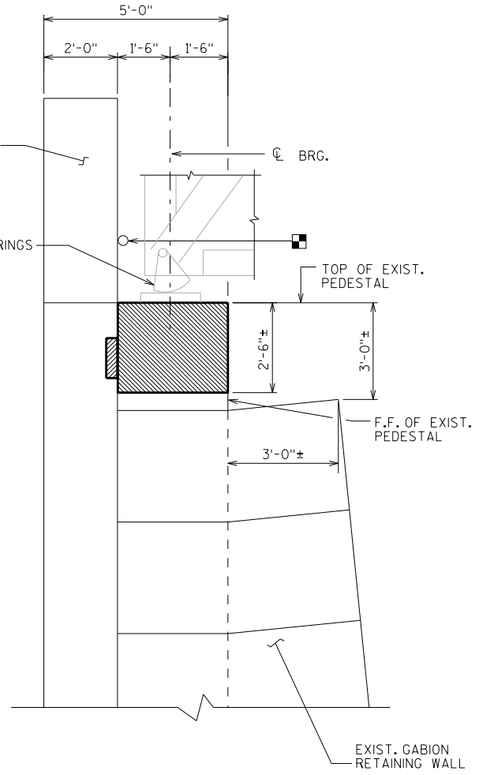
LOOKING SOUTH
(STEEL BEARINGS & TRUSSES NOT SHOWN FOR CLARITY)



PIER 1 PLAN



VIEW A-A



VIEW B-B

▪ EXISTING ELECTRICAL CONDUIT TO BE PRESERVED & MAINTAINED DURING CLEANING, PAINTING, & CONCRETE SURFACE REPAIR OPERATIONS.

CONCRETE REPAIR NOTES:

▨ APPROXIMATE LIMITS OF CONCRETE SURFACE REPAIR. CONCRETE SURFACE REPAIR LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHEET 1 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

DEFINE ALL REMOVAL LIMITS WITH A ½" DEEP SAW CUT.

CONCRETE REPAIR SHALL BE PAID FOR UNDER BID ITEM "CONCRETE SURFACE REPAIR". ENSURE THAT ALL REMOVED MATERIAL DOES NOT FALL INTO RIVER BELOW.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

PIER 1 REPAIR DETAILS

SHEET 9

30

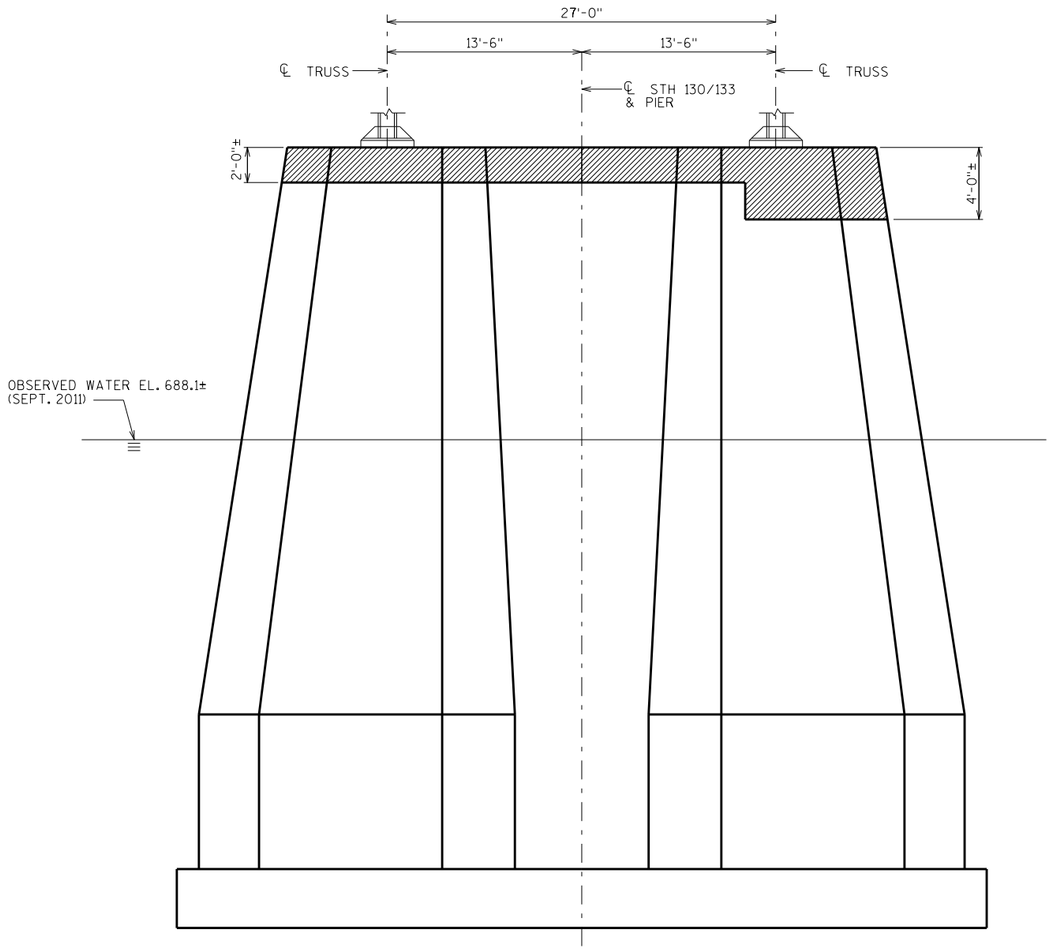
SCALE = 4.00

8

8

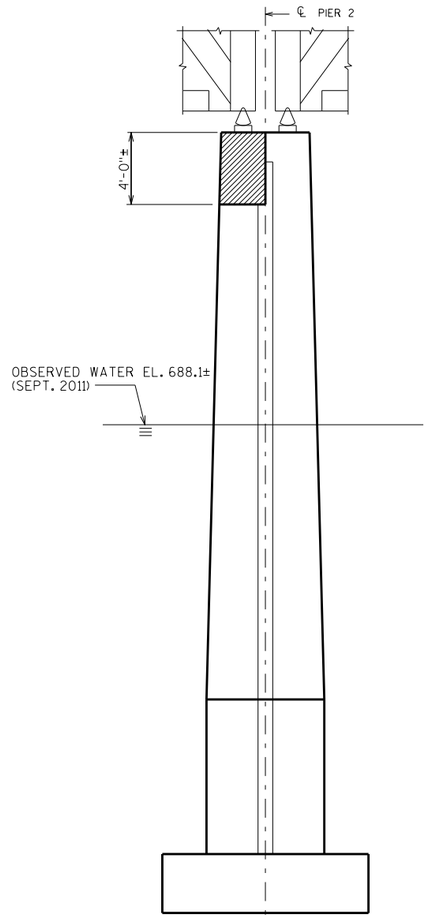
STATE PROJECT NUMBER

5770-01-61

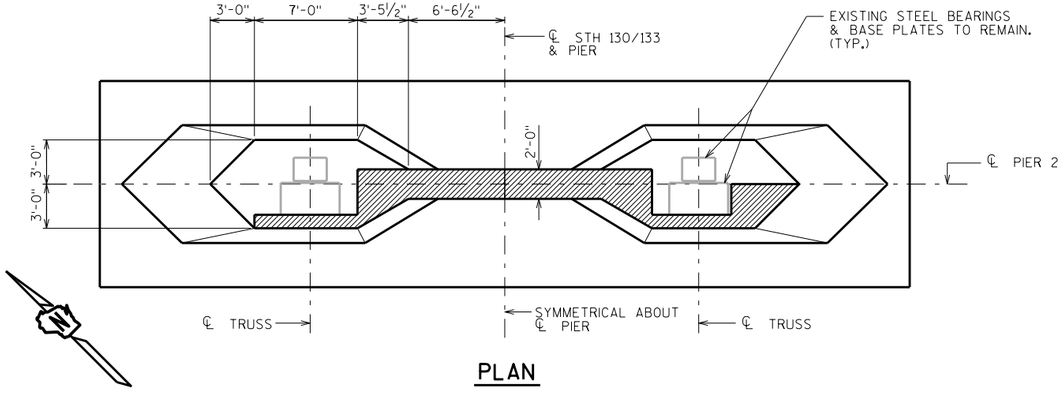


ELEVATION

LOOKING NORTH



EAST
END
VIEW



PLAN

CONCRETE REPAIR NOTES:

APPROXIMATE LIMITS OF CONCRETE SURFACE REPAIR. CONCRETE SURFACE REPAIR LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHEET 1 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

DEFINE ALL REMOVAL LIMITS WITH A ½" DEEP SAW CUT.

CONCRETE REPAIR SHALL BE PAID FOR UNDER BID ITEM "CONCRETE SURFACE REPAIR". ENSURE THAT ALL REMOVED MATERIAL DOES NOT FALL INTO RIVER BELOW.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

PIER 2 REPAIR DETAILS

SHEET 10

31

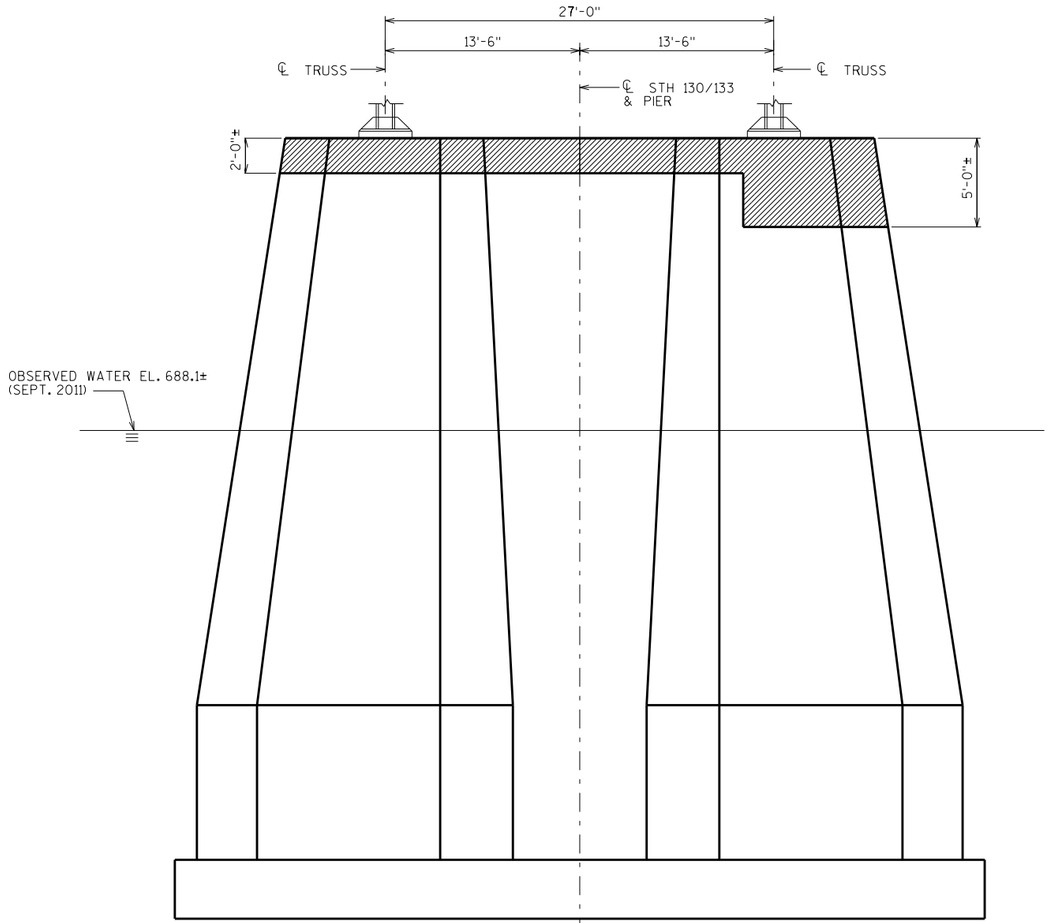
SCALE = 5.00

8

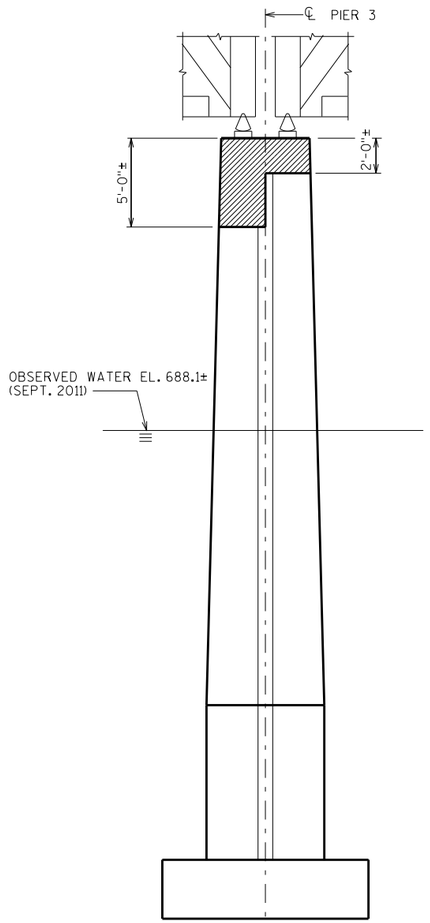
8

STATE PROJECT NUMBER

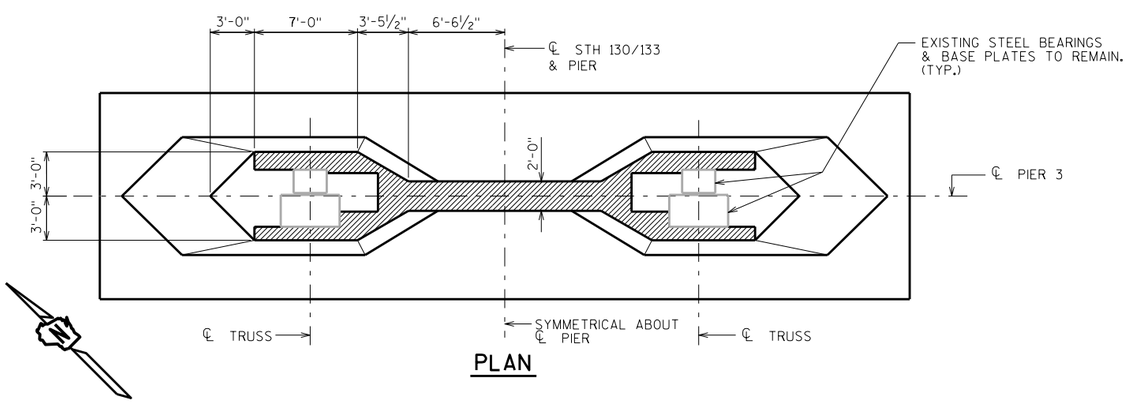
5770-01-61



ELEVATION
LOOKING NORTH



EAST
END
VIEW



PLAN

CONCRETE REPAIR NOTES:

APPROXIMATE LIMITS OF CONCRETE SURFACE REPAIR. CONCRETE SURFACE REPAIR LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHEET 1 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

DEFINE ALL REMOVAL LIMITS WITH A ½" DEEP SAW CUT.

CONCRETE REPAIR SHALL BE PAID FOR UNDER BID ITEM "CONCRETE SURFACE REPAIR". ENSURE THAT ALL REMOVED MATERIAL DOES NOT FALL INTO RIVER BELOW.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

PIER 3 REPAIR DETAILS

SHEET 11

32

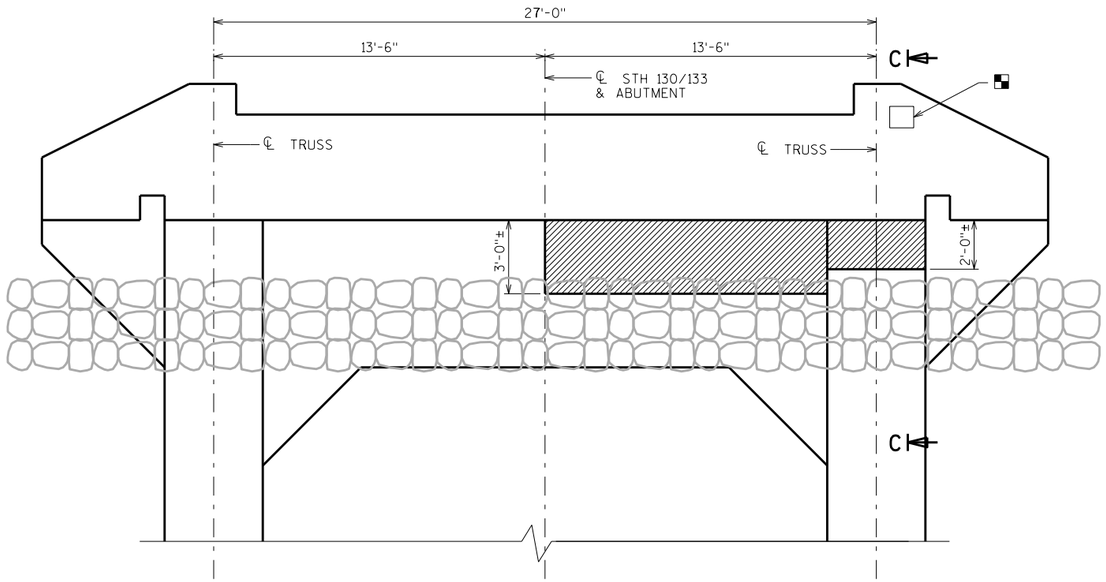
SCALE = 5.00

8

8

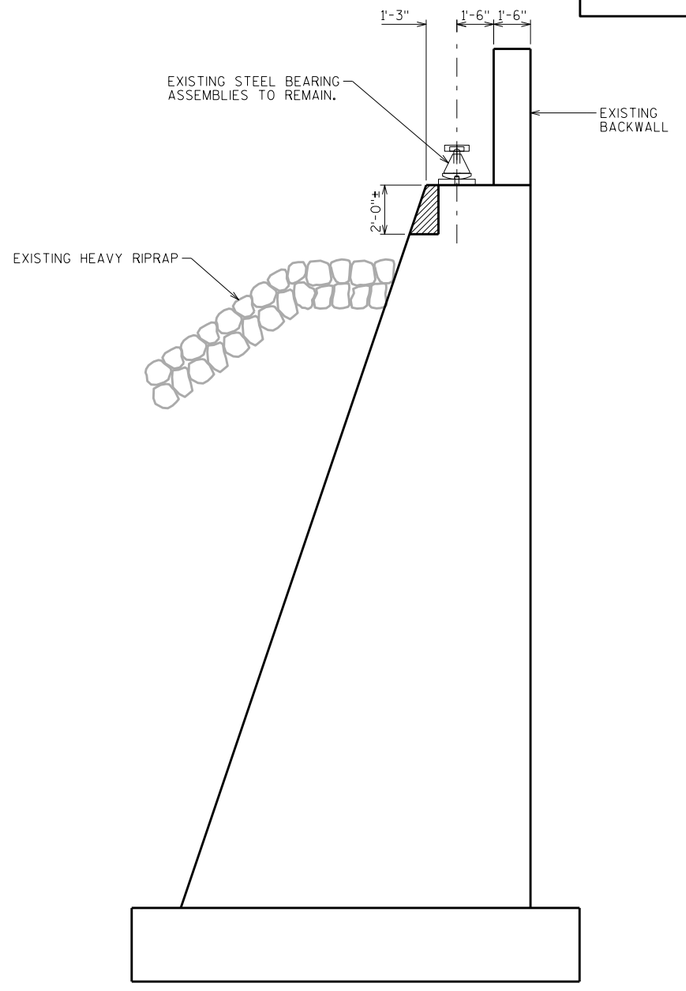
STATE PROJECT NUMBER

5770-01-61

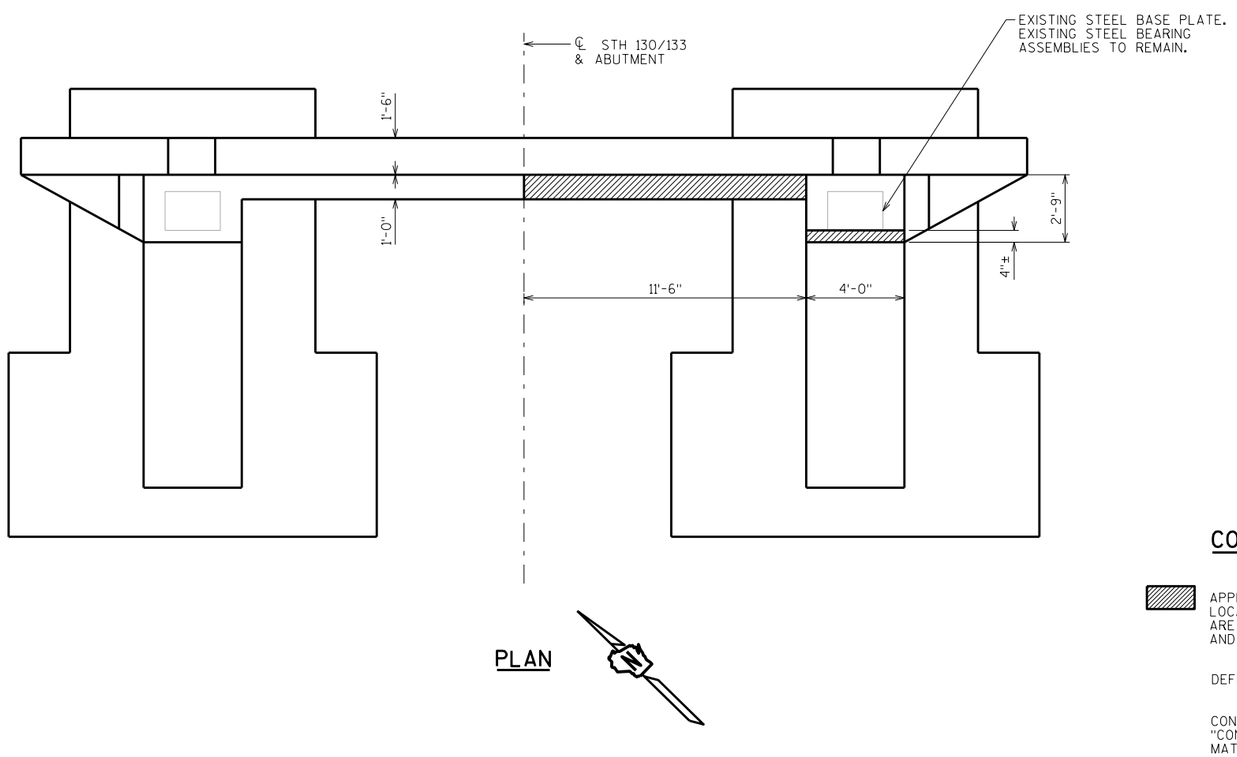


ELEVATION

LOOKING NORTH



SECTION C-C



PLAN

EXISTING ELECTRICAL CONDUIT TO BE PRESERVED & MAINTAINED DURING CLEANING, PAINTING, & CONCRETE SURFACE REPAIR OPERATIONS.

CONCRETE REPAIR NOTES:

APPROXIMATE LIMITS OF CONCRETE SURFACE REPAIR. CONCRETE SURFACE REPAIR LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHEET 1 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

DEFINE ALL REMOVAL LIMITS WITH A ½" DEEP SAW CUT.

CONCRETE REPAIR SHALL BE PAID FOR UNDER BID ITEM "CONCRETE SURFACE REPAIR". ENSURE THAT ALL REMOVED MATERIAL DOES NOT FALL INTO RIVER BELOW.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-25-81

DRAWN BY WWR | PLANS CK'D. DMB

N. ABUT. REPAIR DETAILS

SHEET 12

33

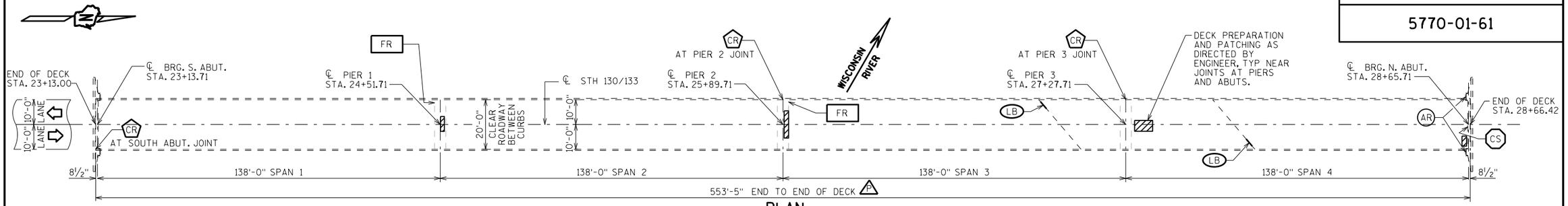
SCALE = 3.00

8

8

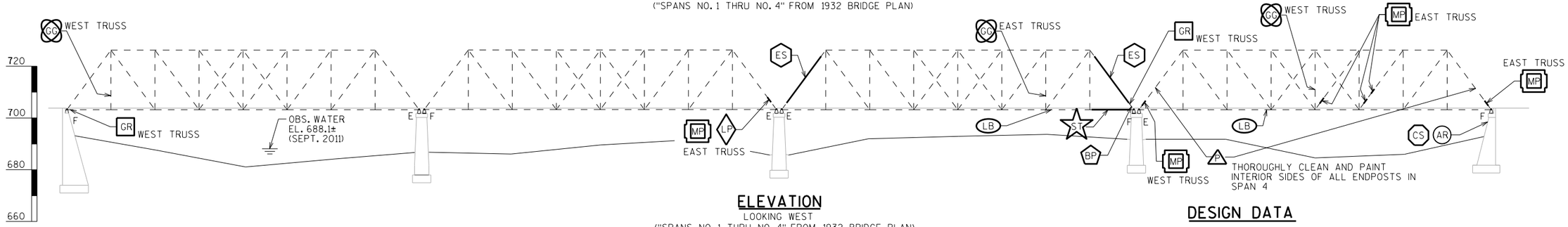
STATE PROJECT NUMBER

5770-01-61



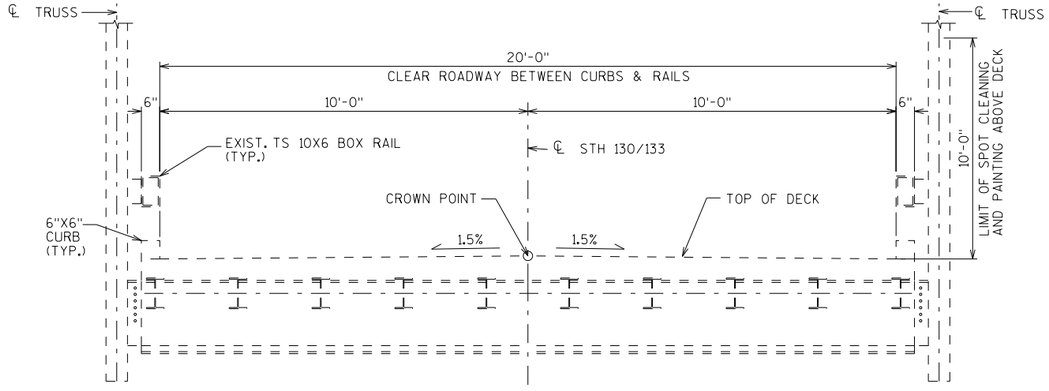
PLAN

FOUR SPAN OVERHEAD STEEL TRUSS
("SPANS NO. 1 THRU NO. 4" FROM 1932 BRIDGE PLAN)



ELEVATION

LOOKING WEST
("SPANS NO. 1 THRU NO. 4" FROM 1932 BRIDGE PLAN)



TYPICAL CROSS SECTION

LOOKING NORTH

REHABILITATION LEGEND

- (A) STRUCTURE SPOT CLEANING & PAINTING -AS DIRECTED BY ENGINEER OVER ENTIRE BRIDGE, (LIMITED TO 10' ABOVE DECK SURFACE, EXCEPT AT LOCATIONS WHERE NEW PLATES ARE BEING INSTALLED AND REQUIRE PAINTING ABOVE THIS LIMIT)
- (AR) ABUTMENT REPAIR -TYPICAL AT BOTH NORTH ABUTMENT BEARING POINTS
- (CS) CONCRETE SURFACE REPAIRS
- (CR) CURB REPAIR -MATCH EXIST. CURB SHAPE
- (ST) STRENGTHEN LOWER CHORD OF TRUSS -AT EAST TRUSS ONLY
- (ES) STRENGTHEN END POST OF TRUSS -TYPICAL AT ALL FOUR END POST IN SPAN 3
- (LB) LOWER LATERAL BRACING REPAIR -TWO LOCATIONS SHOWN, OTHER LOCATIONS AS DIRECTED BY ENGINEER
- (BP) REMOVE AND REPLACE CORRODED BATTEN PLATE ON END POST -ONE LOCATION SHOWN, OTHER LOCATIONS AS DIRECTED BY ENGINEER
- (LP) REMOVE AND REPLACE CORRODED LACING PLATE -ONE LOCATION SHOWN, OTHER LOCATIONS AS DIRECTED BY ENGINEER
- [GR] GUSSET PLATE REPAIR - BOTTOM CHORD TO ENDPOST
- [MP] MEMBER PLATING AT SECTION LOSS/BATTEN PLATES OR HOLES
- (GG) GRIND GOUGES IN MEMBER FLANGE TO A CIRCULAR RADIUS AS DIRECTED BY ENGINEER
- [FR] FLOOR BEAM REPAIR

DESIGN DATA

LIVE LOAD:
DESIGN RATING: HS-20
INVENTORY RATING: HS-14
OPERATING RATING: HS- 24
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 160 (KIPS)

MATERIAL PROPERTIES:
CONCRETE MASONRY:
ALL — f'c = 4,000 P.S.I.
STRUCTURAL CARBON STEEL:
ASTM A709, GRADE 36 — Fy = 36,000 P.S.I.

TRAFFIC DATA:
A.D.T. = 2,200 (2009)
A.D.T. = 2,900 (2040)
R.D.S = 60 M.P.H.

LIST OF DRAWINGS

STRUCTURE DESIGN CONTACTS:
CHRISTOPHER DOLL (608) 266-3229
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 12/9/19
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-52-856

STH 130-STH 133 OVER WISCONSIN RIVER

COUNTY	TOWN
RICHLAND	BUENA VISTA

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	CAD	DESIGNED CK'D.	DMB	DRAWN BY	WWR	PLANS CK'D.	DMB

GENERAL PLAN

SHEET 1 OF 13

34

I.D. 5770-01-31A DATE: OCT. 2019

SCALE = 20.00

8

8

STATE PROJECT NUMBER
5770-01-61

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
502.0100	CONCRETE MASONRY BRIDGES	CY	3
502.4106	ADHESIVE ANCHORS 3/4-INCH	EACH	12
506.0105	STRUCTURAL STEEL CARBON	LB	5,160
506.3009	WELDED STUD SHEAR CONNECTORS 3/4X5-INCH	EACH	18
509.0301	PREPARATION DECKS TYPE 1	SY	1
509.0302	PREPARATION DECKS TYPE 2	SY	1
509.1200	CURB REPAIR	LF	10
509.1500	CONCRETE SURFACE REPAIR	SF	10
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	10
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	1
SPV.0060	REMOVING RIVETS	EACH	76
SPV.0060	LOWER LATERAL BRACING REPAIR	EACH	5
SPV.0060	BATTEN PLATE REPAIR B-52-856	EACH	5
SPV.0060	LACING PLATE REPAIR	EACH	10
SPV.0105	FIELD GRINDING OF MEMBER GOUGES	LS	1
SPV.0105	STRUCTURE SPOT CLEANING AND PAINTING B-52-856	LS	1
SPV.0180	ABUTMENT SEAT CLEANING AND SEALING	SY	5

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL FIELD CONNECTIONS SHALL BE MADE WITH A325 HIGH-TENSILE STRENGTH BOLTS.

THE COLOR OF THE FINISH EXTERIOR EPOXY TOP COAT SHALL BE LIGHT GRAY, (FEDERAL STANDARD COLOR NO. 26293) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

PREPARATION DECKS TYPE 1 AND PREPARATION DECKS TYPE 2 REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AREAS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

NOTES & QUANTITIES

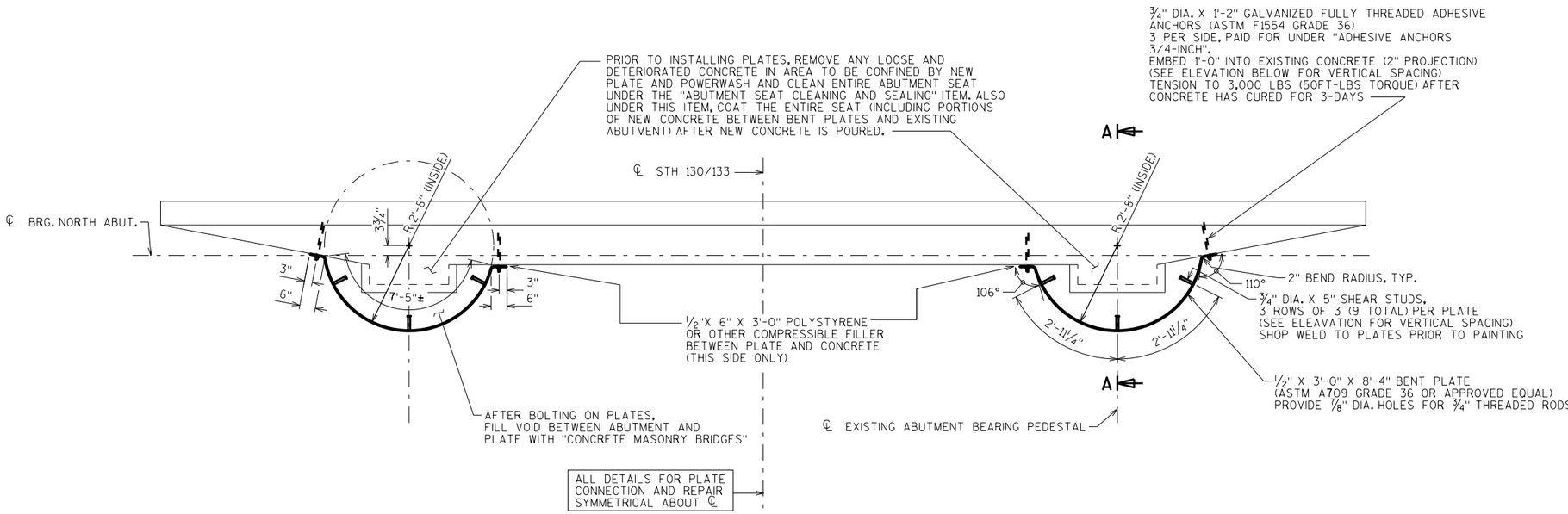
SHEET 2

35

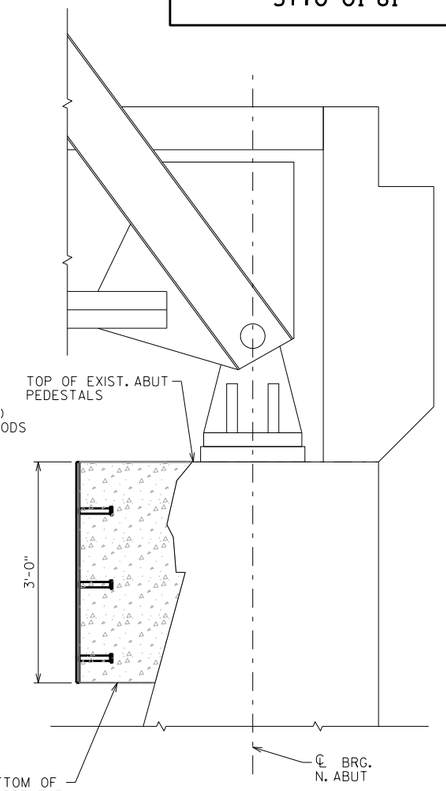
SCALE = 20.00

STATE PROJECT NUMBER

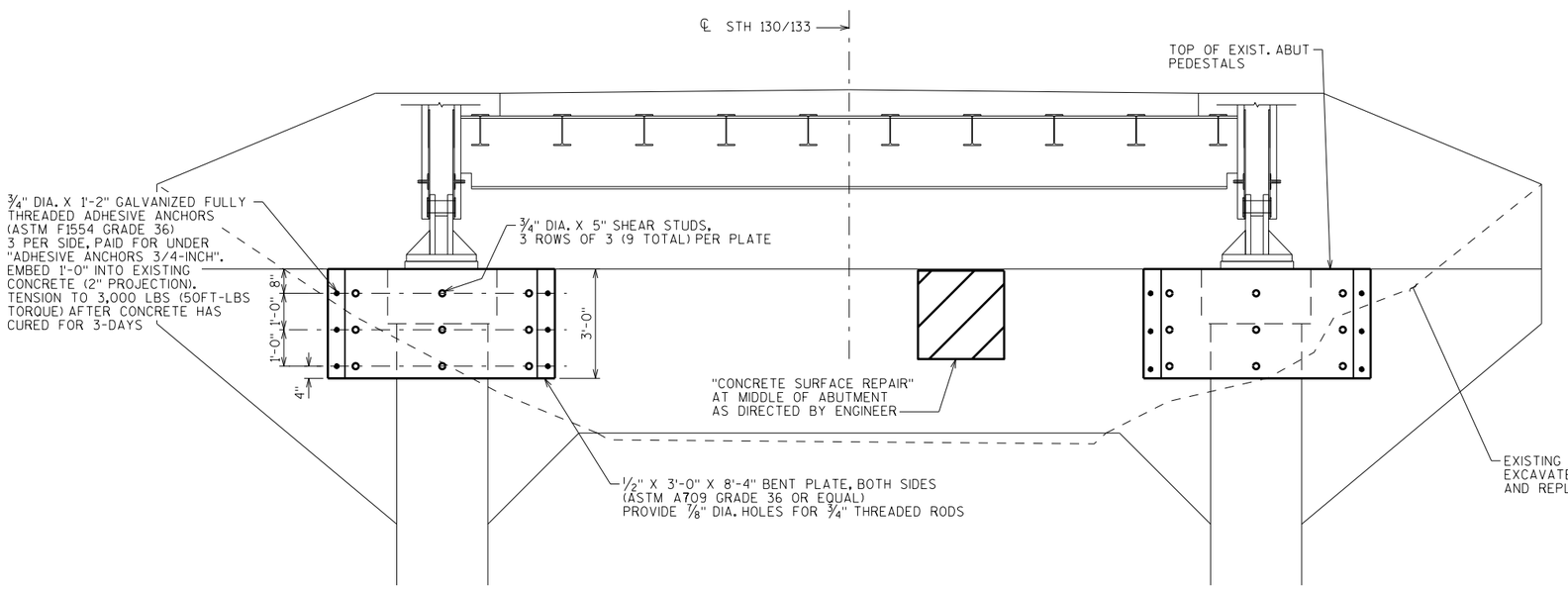
5770-01-61



PLAN - NORTH ABUTMENT



SECTION A-A



NORTH ABUTMENT ELEVATION

NOTES

BENT STEEL PLATES SHALL BE INCLUDED IN BID ITEM, "STRUCTURAL STEEL CARBON", LB.

AFTER FABRICATION, STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 6 AND BE SHOP PAINTED WITH ONE COAT OF ZINC-RICH PRIMER AND ONE COAT OF HIGH-BUILD BROWN EPOXY PAINT. ALL PRIMER, PAINT, AND PAINTING SHALL BE IN CONFORMANCE WITH SECTION 517 OF THE STANDARD SPECIFICATIONS. SHOP PRIMING AND PAINTING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

CONCRETE SURFACE REPAIR LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHT. 1 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

ALL SURFACE REPAIR AREAS SHALL BE DEFINED BY ½" MIN. SAWCUT.

EXCAVATION AND BACKFILLING SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY WWR | PLANS CK'D. DMB

NORTH ABUTMENT REPAIRS

SHEET 3

36

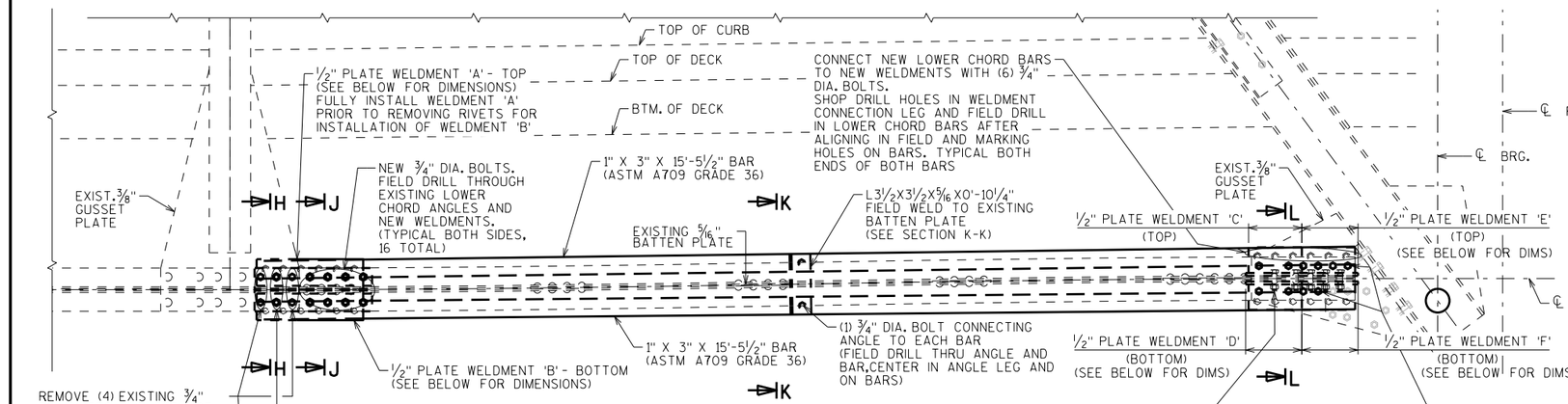
8

8

SCALE = 2.00

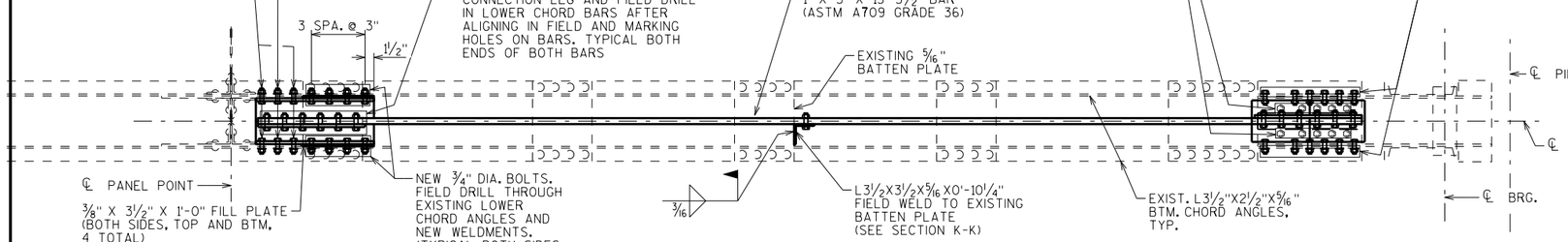
STATE PROJECT NUMBER

5770-01-61



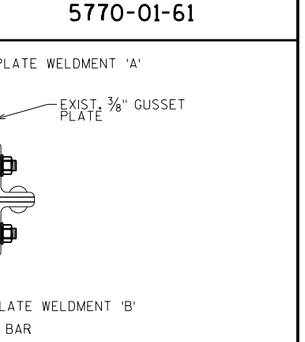
NORTH-EAST BOTTOM CHORD - OUTSIDE ELEVATION

IN SPAN 3 ONLY

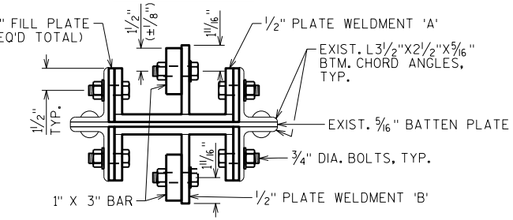


PLAN - NORTH-EAST BOTTOM CHORD

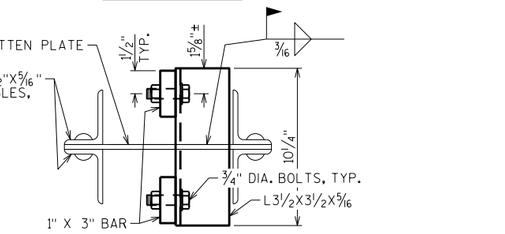
IN SPAN 3 ONLY



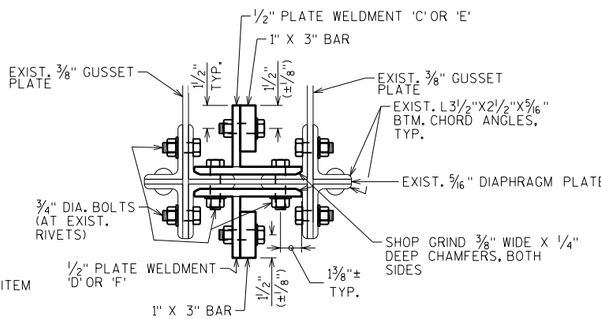
SECTION H-H



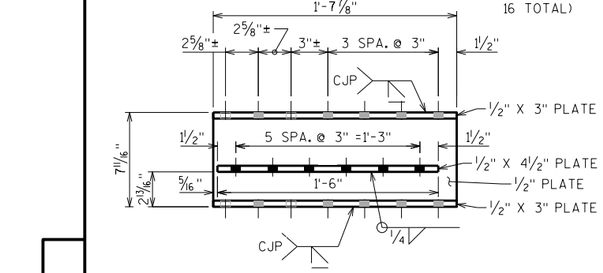
SECTION J-J



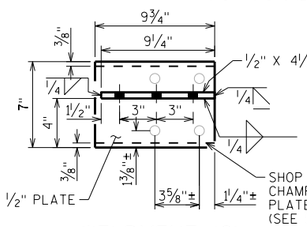
SECTION K-K



SECTION L-L



WELDMENT 'A'



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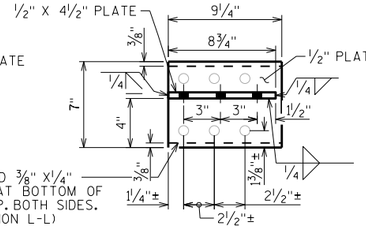

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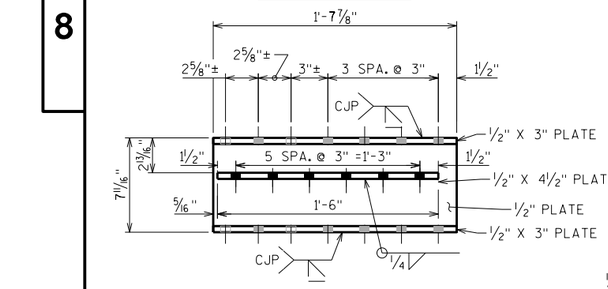

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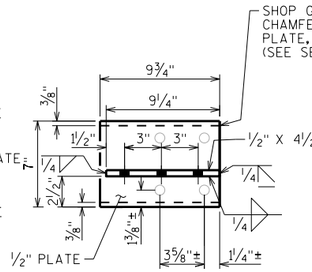
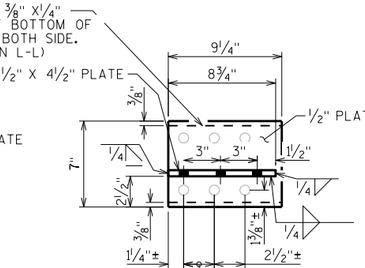


WELDMENT 'D'



WELDMENT 'F'

WELDMENT BOLT HOLE LEGEND

- ● SHOP DRILLED HOLE
- ● FIELD DRILLED HOLE
- ○ FIELD DRILLED HOLE AT EXISTING RIVET HOLE -DIMENSION/LOCATIONS SHOWN ARE APPROXIMATE, DRILL HOLES AT ACTUAL LOCATIONS ENCOUNTERED IN THE FIELD

DETAIL NOTES:

MINIMIZE LOAD ON SPAN DURING REPAIR.

PLATES, ANGLES, & ¾" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

RIVET REMOVAL AND HOLE REAMING (IF REQUIRED), SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS", EACH.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATES FOR ¾" DIA. BOLTS.

NEW STEEL PLATES AND ANGLES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE AND ANGLE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY	CAD	PLANS CK'D.	DMB

LOWER CHORD STRENGTHENING

SHEET 4

37

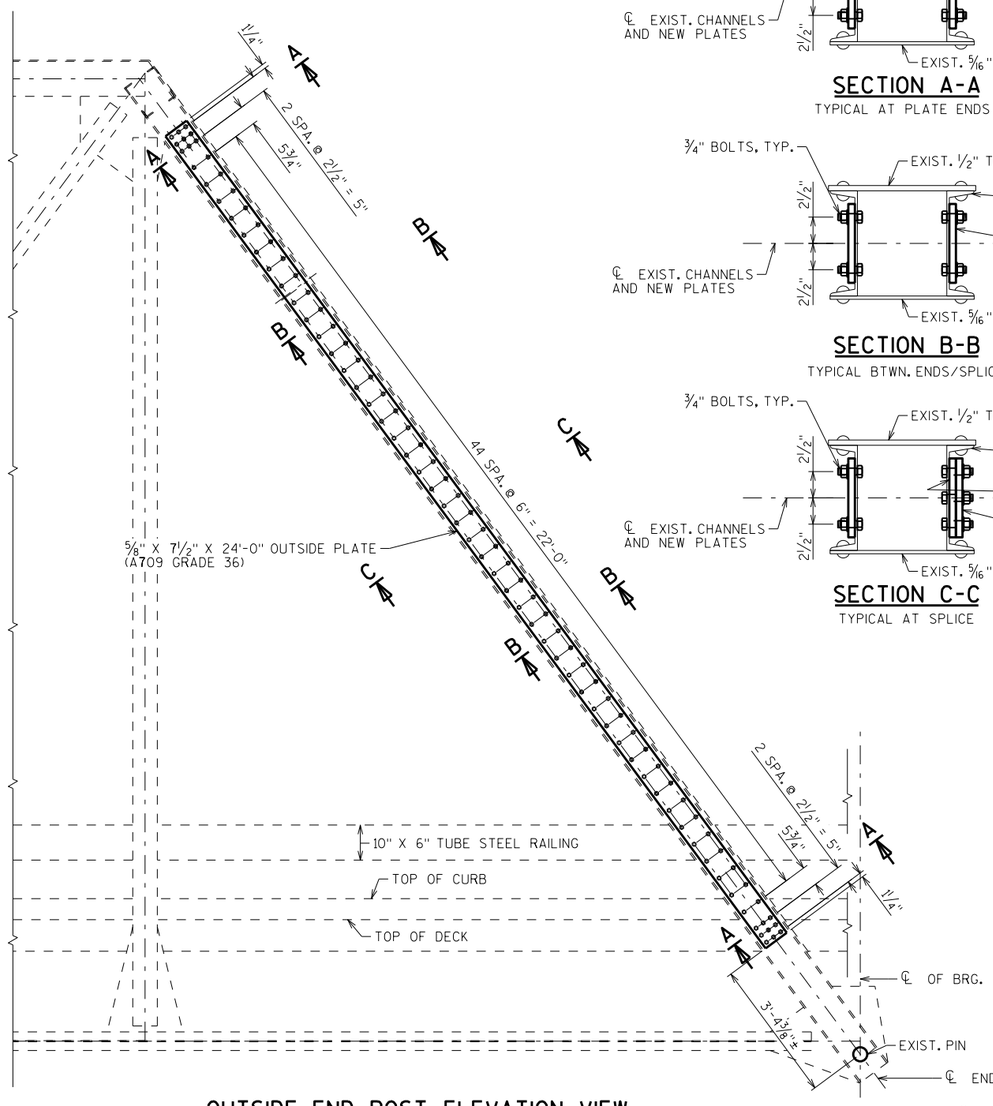
SCALE = 1.00

8

8

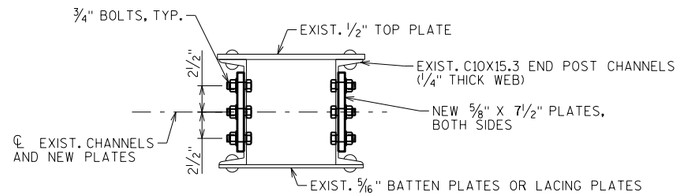
STATE PROJECT NUMBER

5770-01-61



OUTSIDE END POST ELEVATION VIEW

TYPICAL AT NORTH-WEST AND SOUTH-WEST END POST IN SPAN 3
(SOUTH-WEST END POST SHOWN, NORTH-WEST END POST MIRRORED)



SECTION A-A

TYPICAL AT PLATE ENDS

SECTION B-B

TYPICAL BTWN. ENDS/SPLICE

SECTION C-C

TYPICAL AT SPLICE

◐ ADJUST AS REQ'D SO BOLT HOLES ARE NOT LOCATED BEHIND TUBE RAILING AND CAN BE DRILLED

INSIDE END POST ELEVATION VIEW

TYPICAL AT NORTH-WEST AND SOUTH-WEST END POST IN SPAN 3
(SOUTH-WEST END POST SHOWN, NORTH-WEST END POST MIRRORED)

DETAIL NOTES:

PLATES & ¾" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR ¾" DIA. BOLTS. SHOP DRILL IN NEW PLATES (UNLESS NOTED OTHERWISE), FIELD DRILL IN EXISTING CHANNELS USING THE SHOP DRILLED PLATES AS TEMPLATES.

NEW STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

END POST STRENGTHENING 1

SHEET 5

38

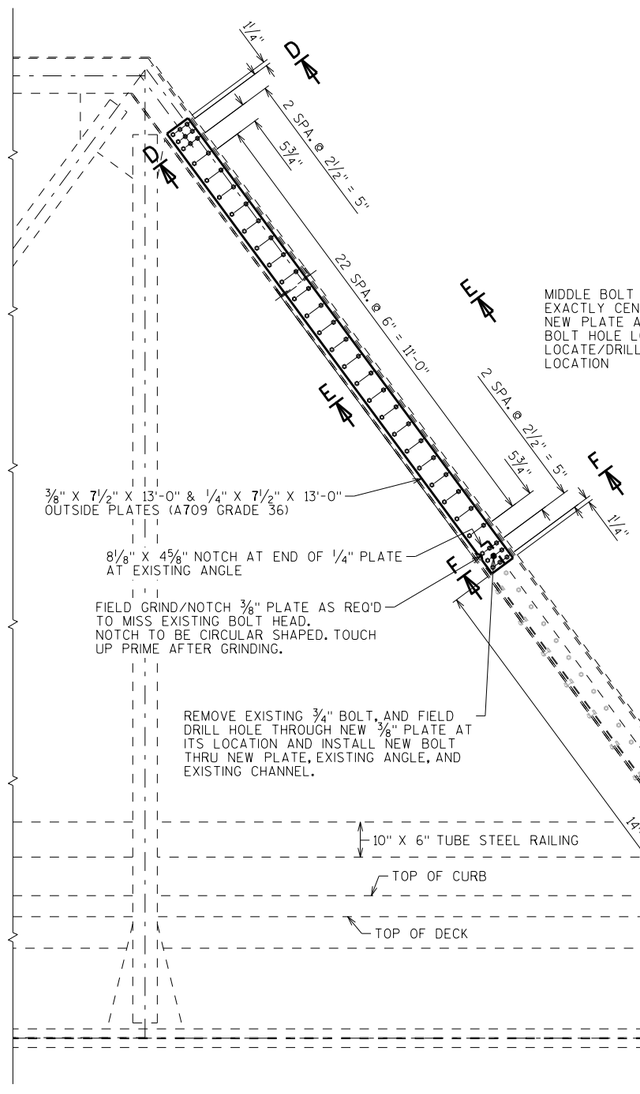
SCALE = 1.75

8

8

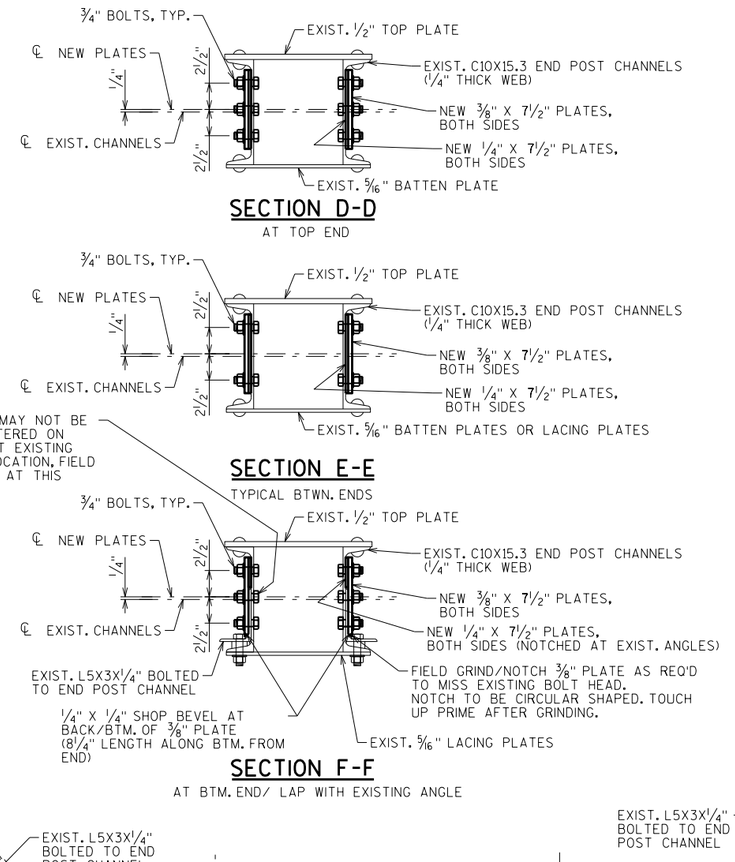
STATE PROJECT NUMBER

5770-01-61



NORTH-EAST END POST - OUTSIDE ELEVATION

IN SPAN 3 ONLY



SECTION D-D

AT TOP END

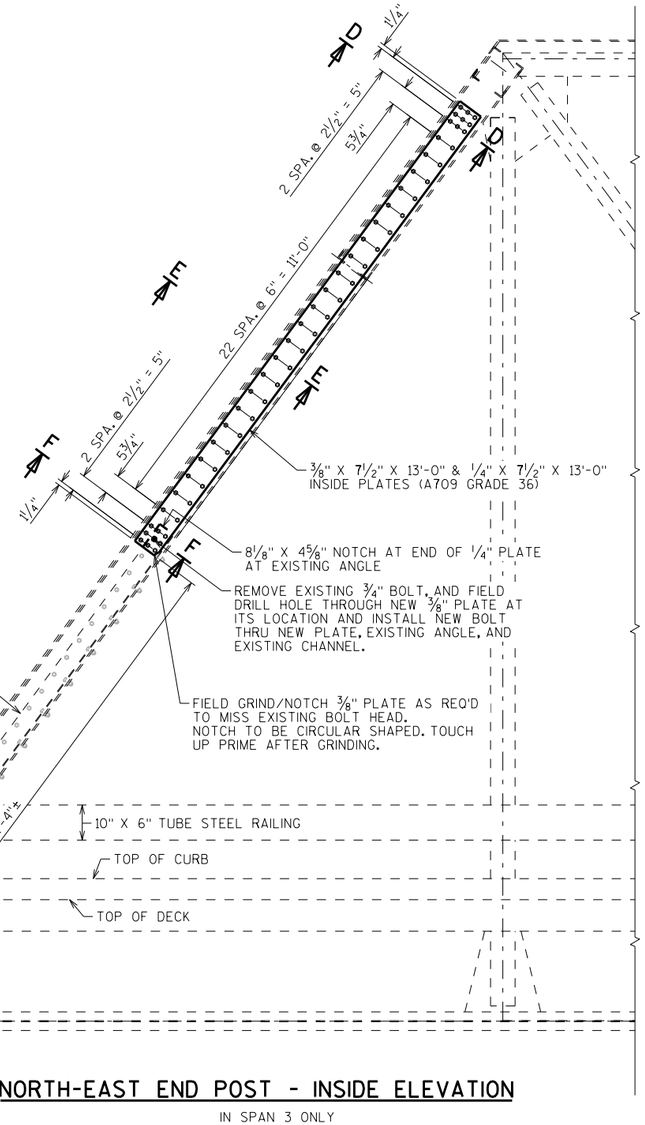
SECTION E-E

TYPICAL BTWN. ENDS

MIDDLE BOLT MAY NOT BE EXACTLY CENTERED ON NEW PLATE AT EXISTING BOLT HOLE LOCATION, FIELD LOCATE/DRILL AT THIS LOCATION

SECTION F-F

AT BTM. END/ LAP WITH EXISTING ANGLE



NORTH-EAST END POST - INSIDE ELEVATION

IN SPAN 3 ONLY

DETAIL NOTES:

PLATES & ¾" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

PROVIDE STD. SIZE 13⁄16" DIA. HOLES IN PLATE FOR ¾" DIA. BOLTS. SHOP DRILL IN NEW PLATES (UNLESS NOTED OTHERWISE), FIELD DRILL IN EXISTING CHANNELS USING THE SHOP DRILLED PLATES AS TEMPLATES.

NEW STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY	CAD	PLANS CK'D.	DMB

END POST STRENGTHENING 2

SHEET 6

39

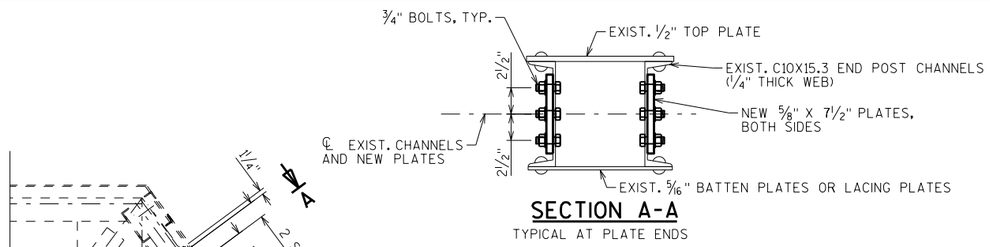
SCALE = 1.75

8

8

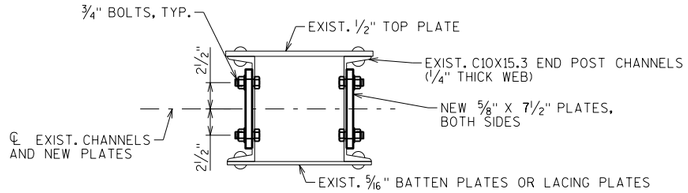
STATE PROJECT NUMBER

5770-01-61



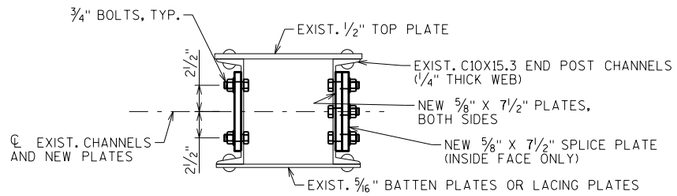
SECTION A-A

TYPICAL AT PLATE ENDS



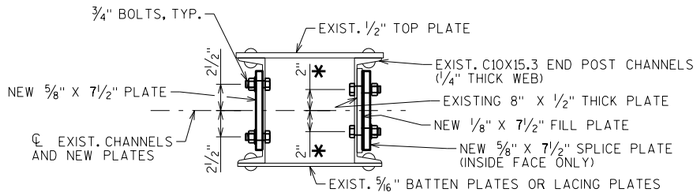
SECTION B-B

TYPICAL BTWN. ENDS/SPLICE



SECTION C-C

AT UPPER SPLICE



SECTION G-G

AT LOWER SPLICE & EXISTING PLATE

* FIELD VERIFY/LOCATE EXISTING HOLES

SOUTH-EAST END POST - INSIDE ELEVATION

IN SPAN 3 ONLY

SOUTH-EAST END POST - OUTSIDE ELEVATION

IN SPAN 3 ONLY

DETAIL NOTES:

PLATES & ¾" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR ¾" DIA. BOLTS. SHOP DRILL IN NEW PLATES (UNLESS NOTED OTHERWISE), FIELD DRILL IN EXISTING CHANNELS USING THE SHOP DRILLED PLATES AS TEMPLATES.

NEW STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

END POST STRENGTHENING 3

SHEET 7

40

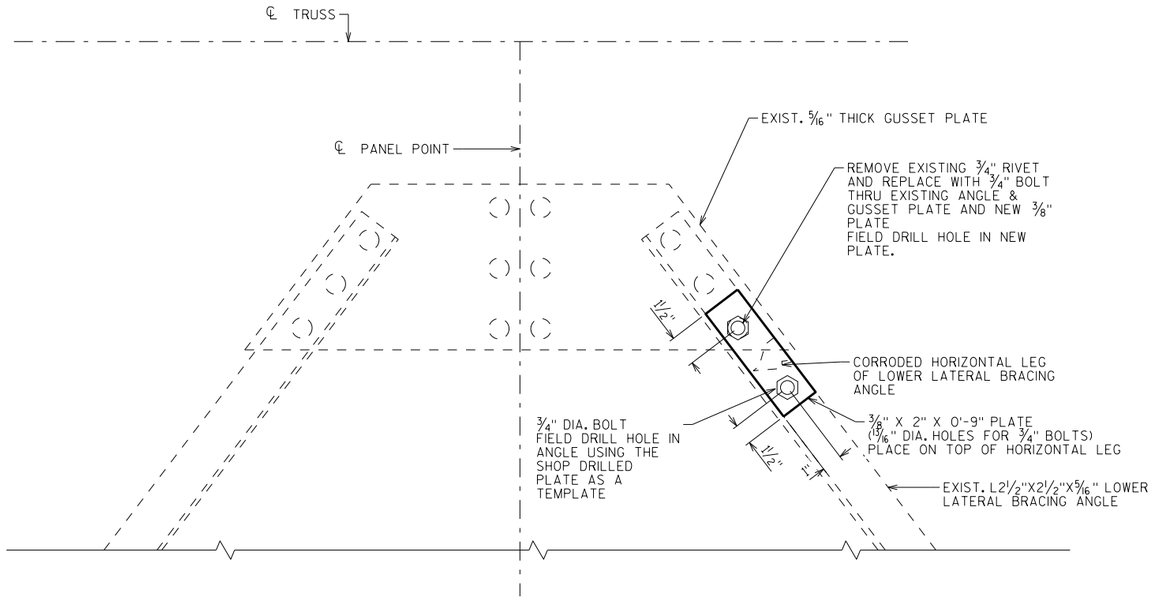
SCALE = 1.75

8

8

STATE PROJECT NUMBER

5770-01-61



LOWER LATERAL BRACING REPAIR

(PLAN VIEW)

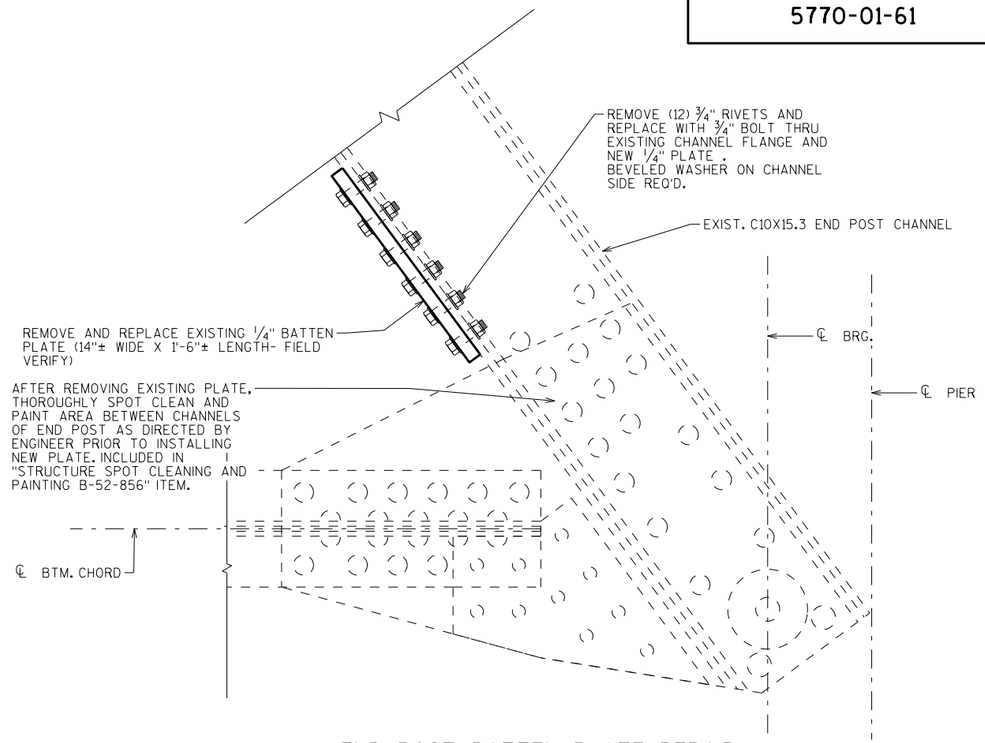
DETAIL NOTES:
ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN BID ITEM "LOWER LATERAL BRACING REPAIR", EACH. RIVET REMOVAL IS INCLUDED IN THIS ITEM, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISION.

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36.

NEW STEEL PLATE SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS.

FIELD TOUCH-UP PRIMING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (5) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE ENGINEER.



END POST BATTEN PLATE REPAIR

(REQ'D AT EAST TRUSS, SPAN 3, PIER 3. OTHER LOCATIONS AS DIRECTED BY ENGINEER)

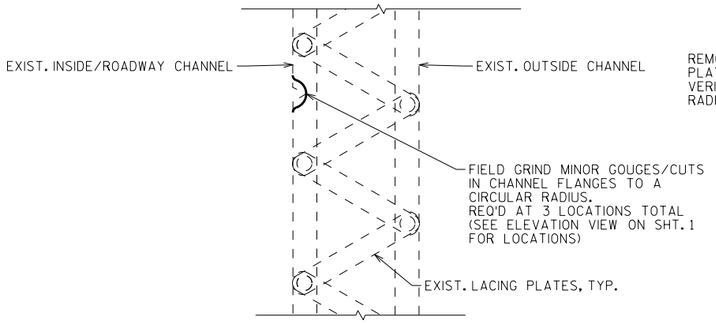
DETAIL NOTES:
ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN BID ITEM "BATTEN PLATE REPAIR B-52-856", EACH. RIVET REMOVAL IS INCLUDED IN THIS ITEM, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISION.

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36.

NEW STEEL PLATE SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS.

FIELD TOUCH-UP PRIMING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (5) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE ENGINEER.

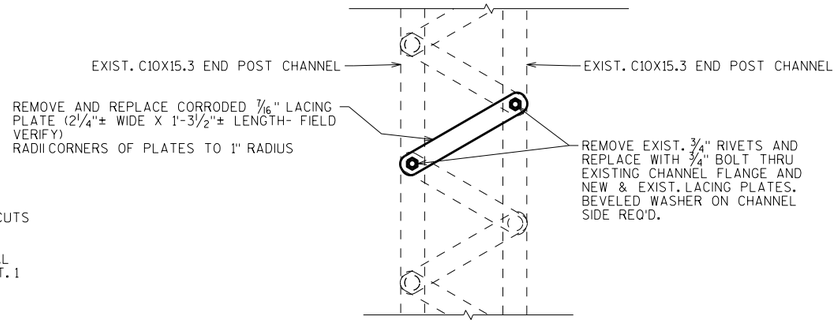


FIELD GRINDING OF MEMBER GOUGES

ELEVATION VIEW LOOKING AT SIDE OF VERTICAL TRUSS MEMBER

DETAIL NOTES:
ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN BID ITEM "FIELD GRINDING OF MEMBER GOUGES"

FIELD TOUCH-UP PRIMING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.



LACING PLATE REPAIR

ELEVATION VIEW LOOKING AT BOTTOM SIDE OF END-POSTS

DETAIL NOTES:
ALL MATERIAL AND WORK SHOWN OR NOTED SHALL BE INCLUDED IN BID ITEM "LACING PLATE REPAIR", EACH. RIVET REMOVAL IS INCLUDED IN THIS ITEM, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "REMOVING RIVETS" SPECIAL PROVISION.

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36.

NEW STEEL PLATE SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS.

FIELD TOUCH-UP PRIMING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

REPAIR LOCATIONS TO BE IDENTIFIED BY THE FIELD ENGINEER. (10) LOCATIONS TOTAL HAVE BEEN INCLUDED FOR BID PURPOSES. ACTUAL NUMBER OF LOCATIONS REQUIRING REPAIR SHALL BE AS DIRECTED BY THE ENGINEER.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

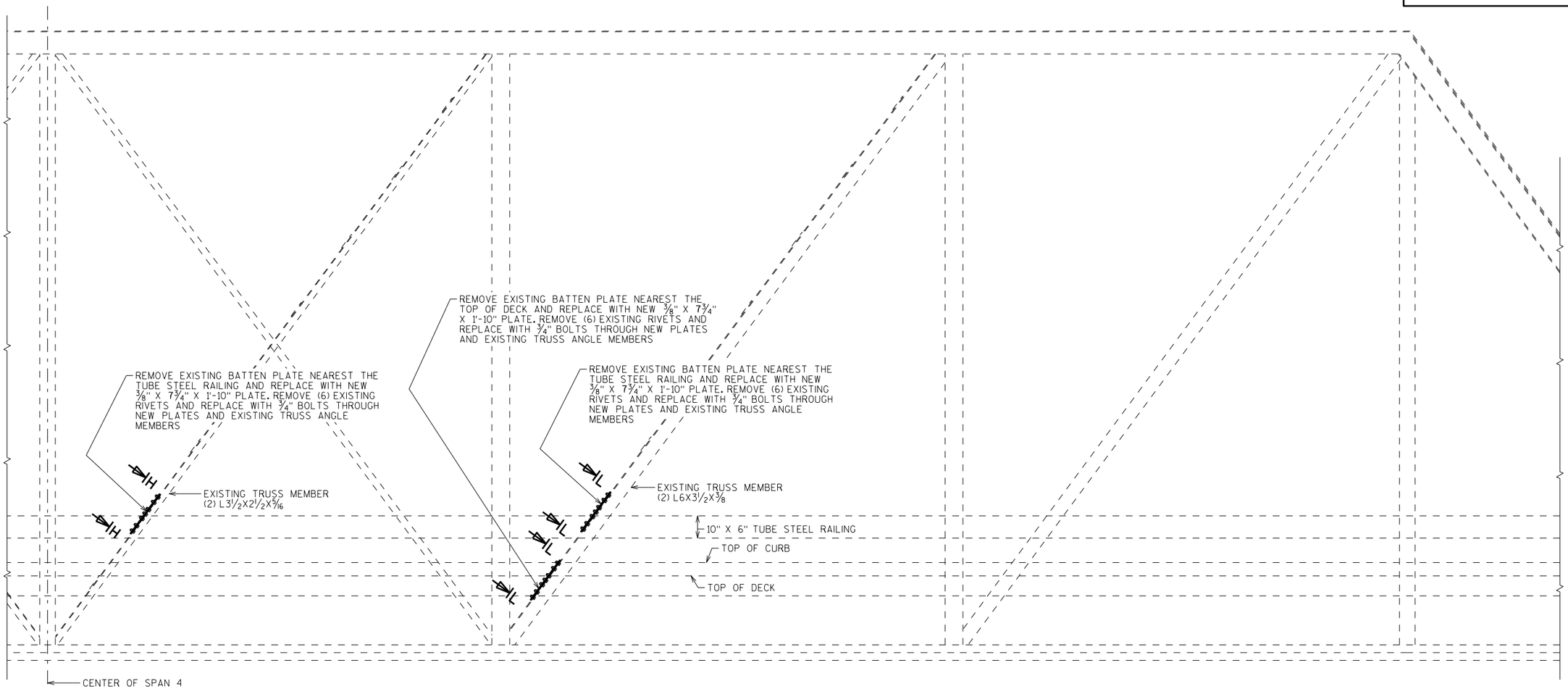
MISCELLANEOUS STEEL REPAIRS

SHEET 8

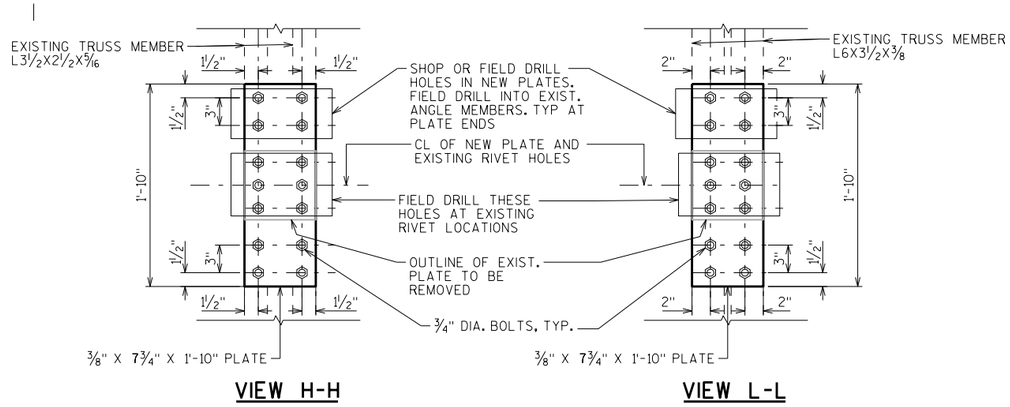
41

SCALE = 2.00

STATE PROJECT NUMBER
5770-01-61



MEMBER PLATING ELEVATION - EAST TRUSS IN SPAN 4 ONLY



VIEW H-H

VIEW L-L

DETAIL NOTES:

PLATES & 3/4" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS. SHOP DRILL IN NEW PLATES (UNLESS NOTED OTHERWISE), FIELD DRILL IN EXISTING ANGLES USING THE SHOP DRILLED PLATES AS TEMPLATES.

RIVET REMOVAL AND HOLE REAMING (IF REQUIRED), SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS", EACH.

NEW STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

MEMBER PLATING 1

SHEET 9

42

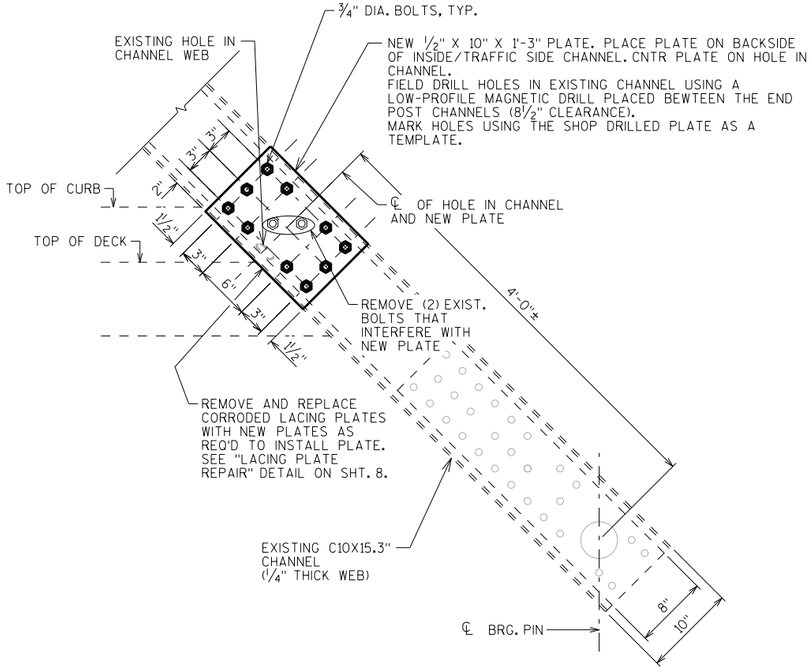
SCALE = 2.00

8

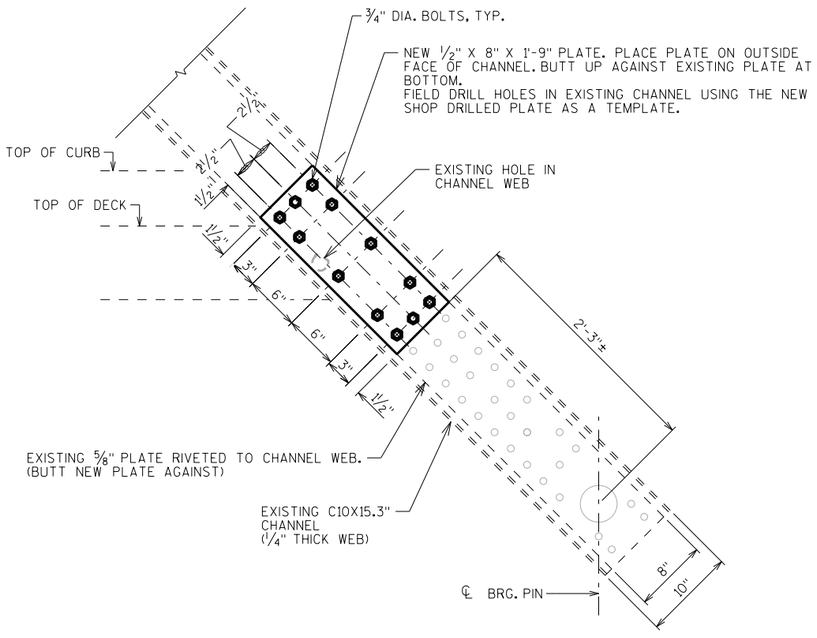
8

STATE PROJECT NUMBER

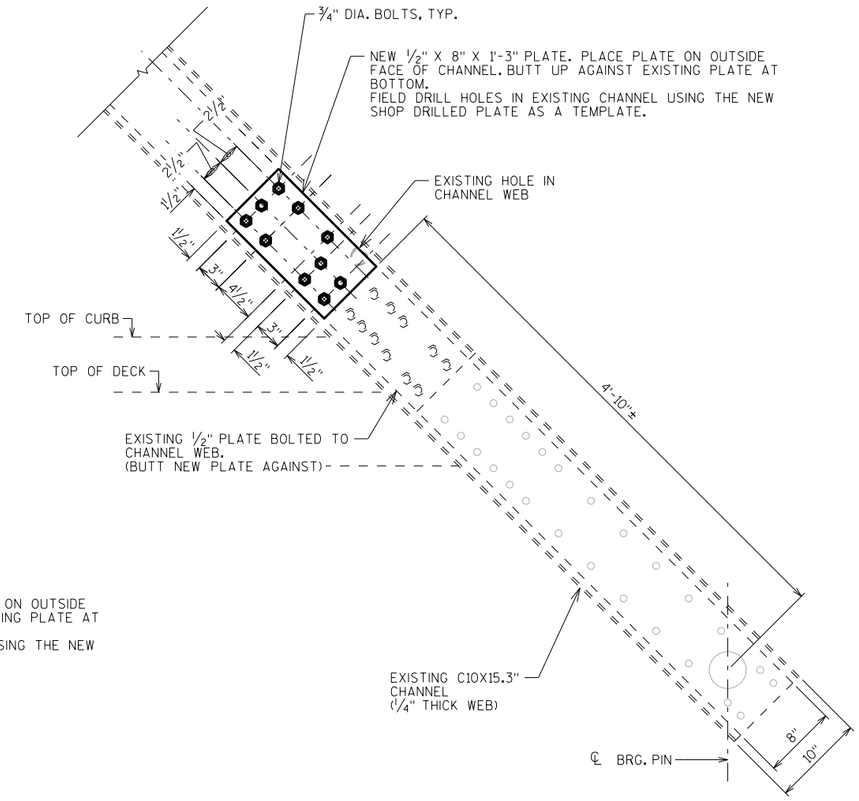
5770-01-61



SPAN 2: EAST TRUSS, NORTH END-POST INSIDE/TRAFFIC SIDE CHANNEL



SPAN 4: WEST TRUSS, SOUTH END-POST OUTSIDE CHANNEL



SPAN 4: EAST TRUSS, NORTH END-POST OUTSIDE CHANNEL

NOTES

PLATES & ¾" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR ¾" DIA. BOLTS. SHOP DRILL IN NEW PLATES (UNLESS NOTED OTHERWISE), FIELD DRILL IN EXISTING CHANNELS USING THE SHOP DRILLED PLATES AS TEMPLATES.

NEW STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

MEMBER PLATING 2

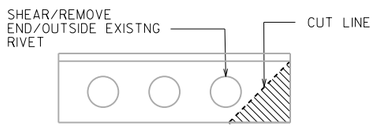
SHEET 10

43

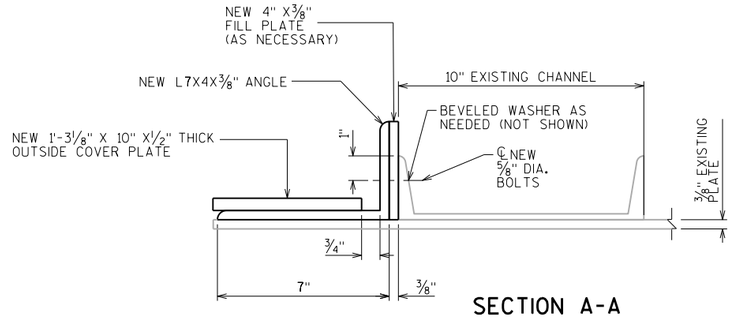
SCALE = 0.67

STATE PROJECT NUMBER

5770-01-61



PLAN VIEW OF EXISTING ANGLE



SECTION A-A

NOTES

DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

PLATES, ANGLES, & BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

RIVET REMOVAL AND HOLE REAMING (IF REQUIRED), SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS", EACH.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS. PROVIDE STD. SIZE 11/16" DIA. HOLES IN PLATE FOR 5/8" DIA. BOLTS.

NEW STEEL PLATES & ANGLES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

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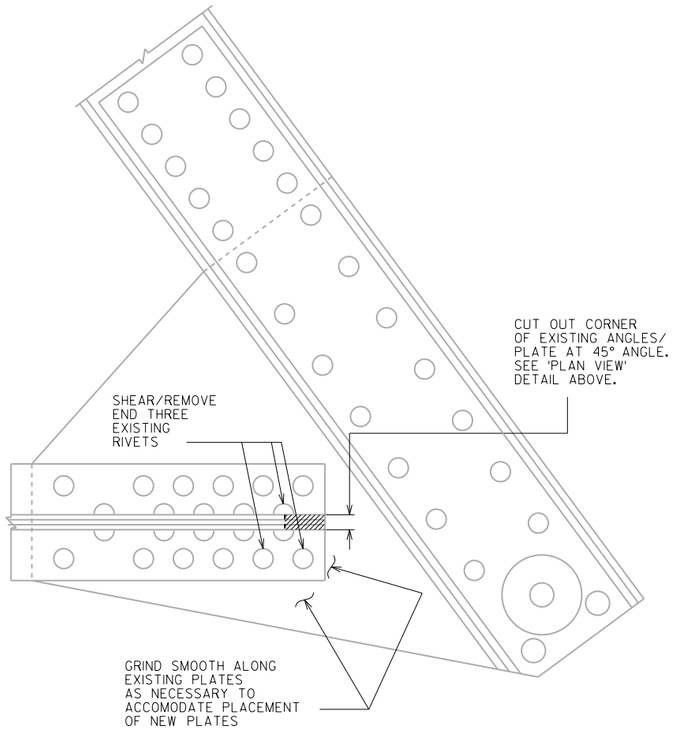
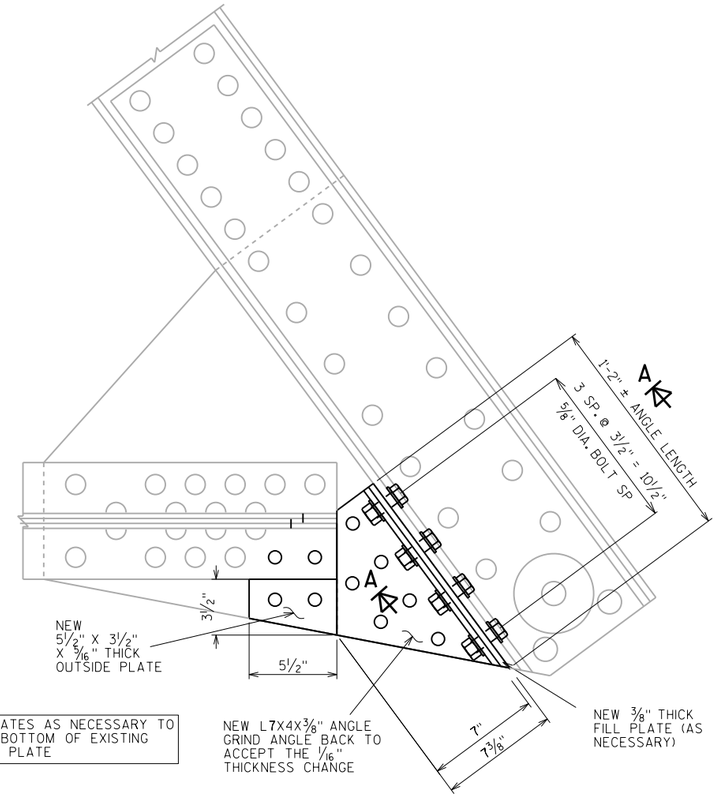


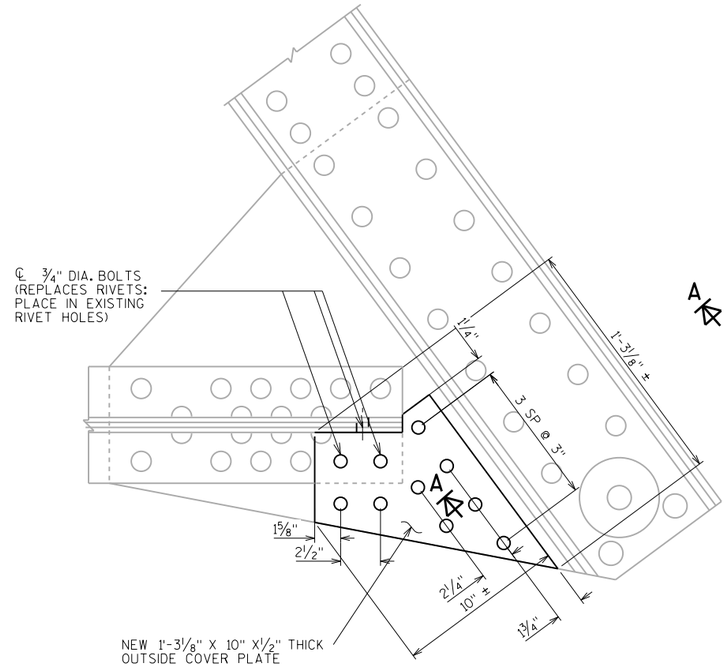
EXISTING GUSSET PLATE DETAIL AT TRUSS ENDS

(OUTSIDE VIEW - SHOWING REMOVAL AREAS)



NEW 3/8" THICK PLATE DETAIL

SEE DETAIL AT RIGHT FOR BOLT HOLE DIMENSIONS



NEW 1/2" THICK PLATE DETAIL

ALL NEW BOLTS NOT LABELED ARE 5/8" DIA. BOLTS

8

8

FIXED BEARING REPAIR

SPAN 1: WEST TRUSS, SOUTH END POST (INSIDE & OUTSIDE GUSSET PLATE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

GUSSET PLATE REPAIRS 1

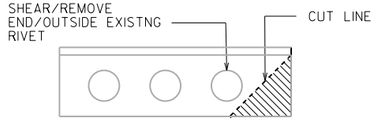
SHEET 11

44

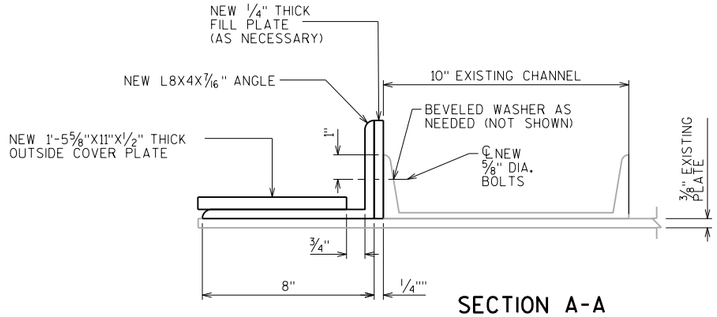
SCALE = 0.50

STATE PROJECT NUMBER

5770-01-61



PLAN VIEW OF EXISTING ANGLE



SECTION A-A

NOTES

DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

PLATES, ANGLES, & BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

RIVET REMOVAL AND HOLE REAMING (IF REQUIRED), SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS", EACH.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS. PROVIDE STD. SIZE 11/16" DIA. HOLES IN PLATE FOR 5/8" DIA. BOLTS.

NEW STEEL PLATES & ANGLES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

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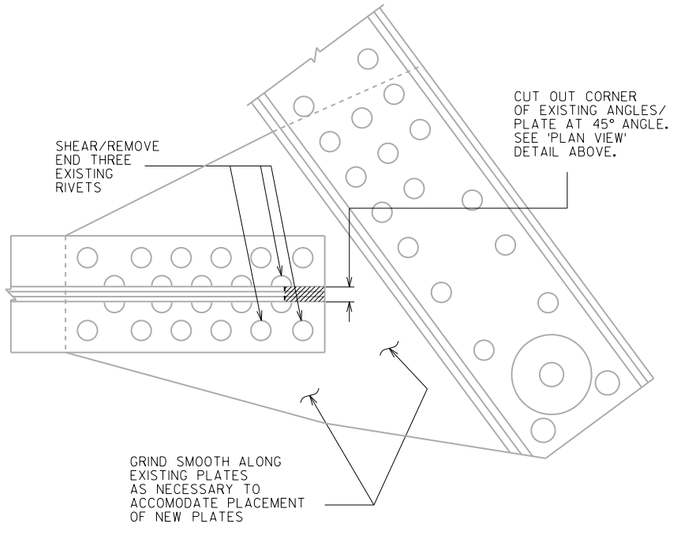
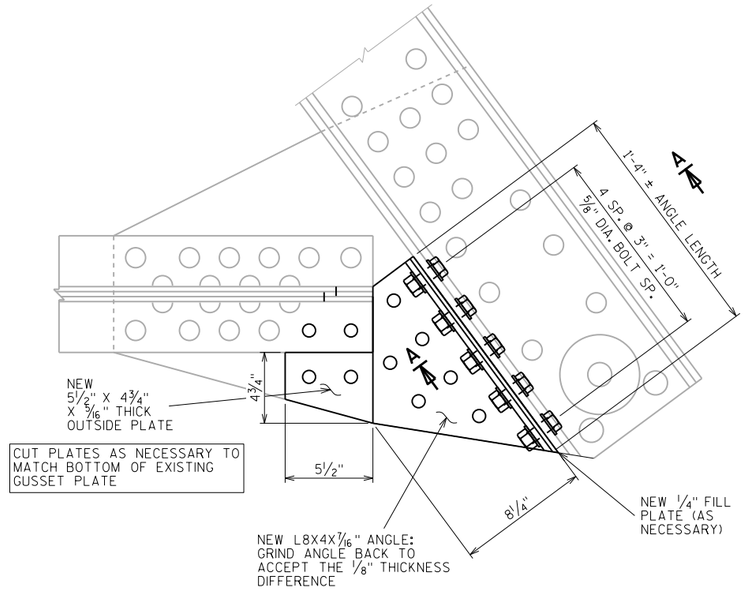


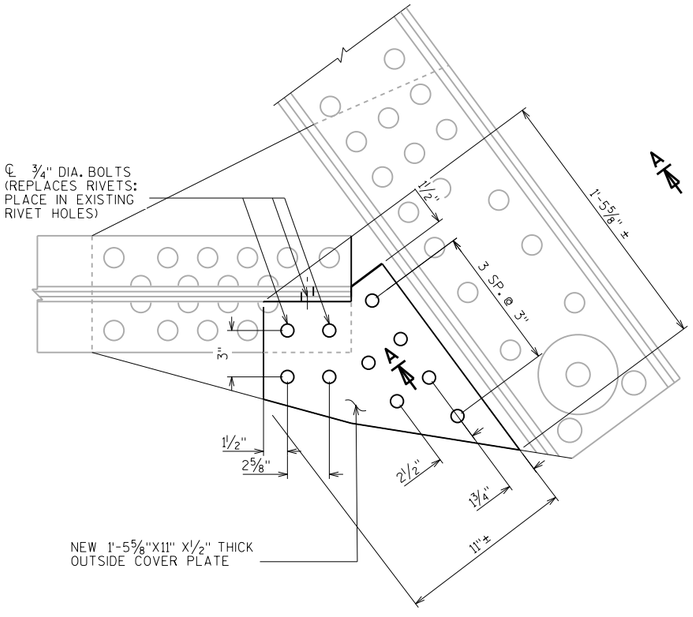
EXISTING GUSSET PLATE DETAIL AT TRUSS ENDS

(OUTSIDE VIEW - SHOWING REMOVAL AREAS)



NEW 5/16" PLATE & 7/16" THICK ANGLE DETAIL

SEE DETAIL AT RIGHT FOR BOLT HOLE DIMENSIONS



NEW 1/2" THICK PLATE DETAIL

ALL NEW BOLTS NOT LABELED ARE 5/8" DIA. BOLTS

FIXED BEARING REPAIR

SPAN 3: WEST TRUSS, NORTH ENDPOST (INSIDE & OUSIDE GUSSET PLATE)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

GUSSET PLATE REPAIRS 2

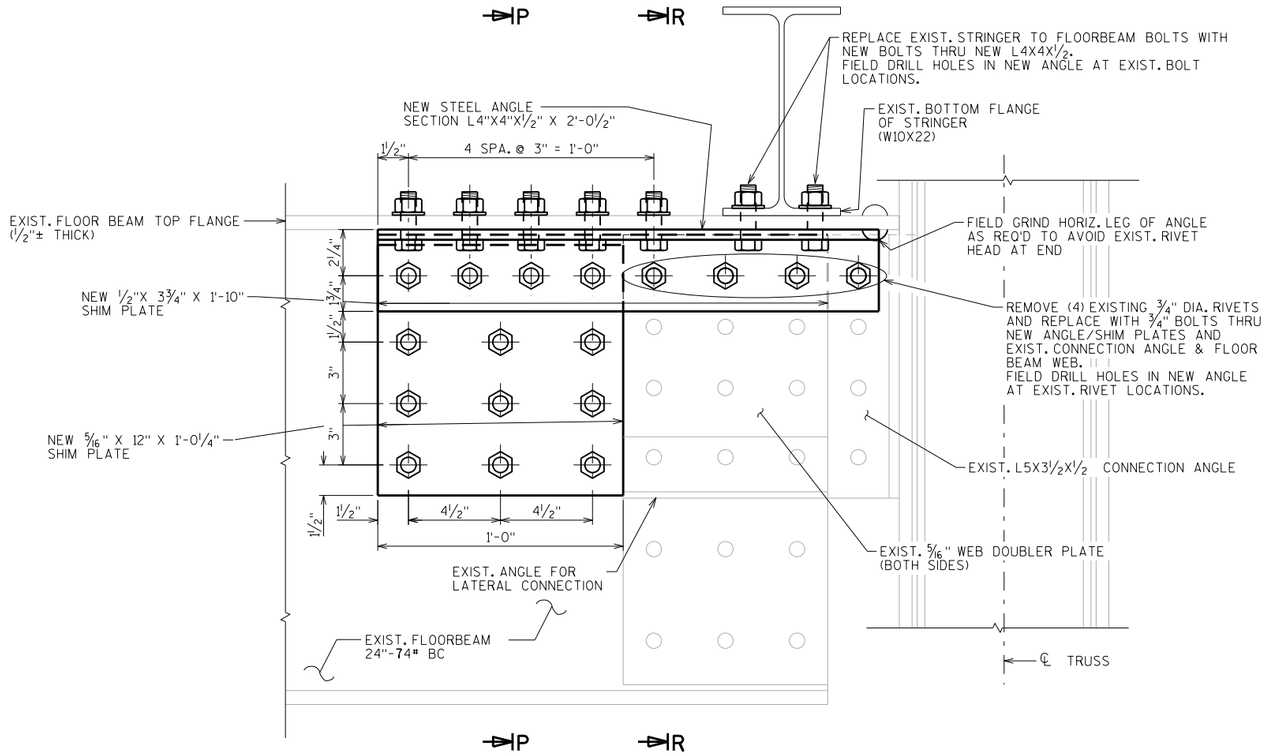
SHEET 12

45

SCALE = 0.50

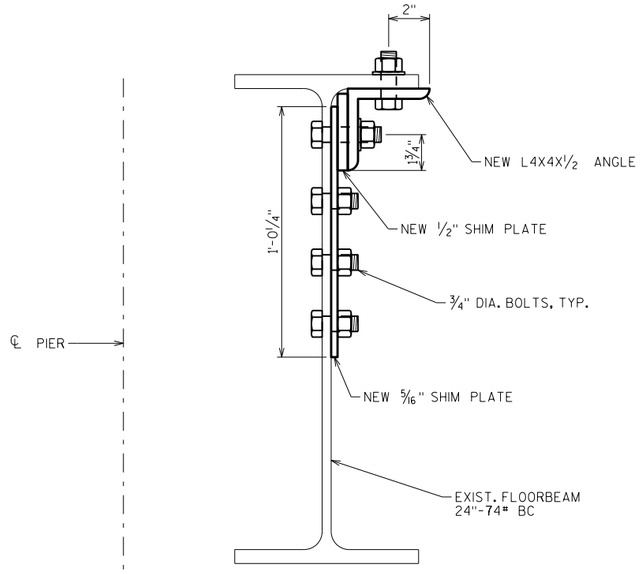
STATE PROJECT NUMBER

5770-01-61

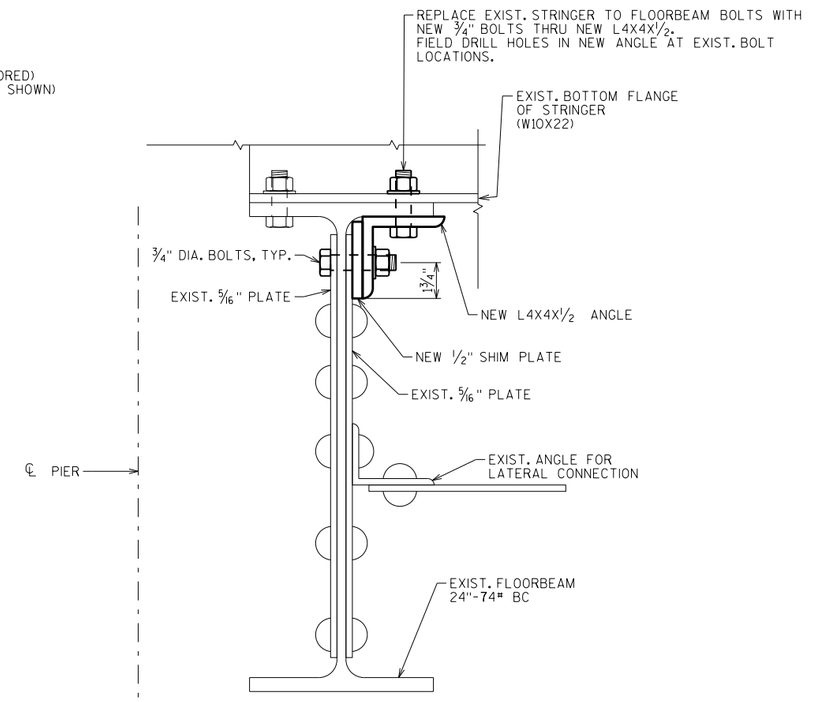


PIER FLOORBEAM REPAIR DETAIL

SPAN 1 - NORTHERN-MOST FLOORBEAM AT WEST TRUSS AT PIER 1 (DETAIL MIRRORED)
SPAN 3 - SOUTHERN-MOST FLOORBEAM AT WEST TRUSS AT PIER 3 (DETAIL AS SHOWN)



SECTION P-P



SECTION R-R

NOTES

DIMENSIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD MEASUREMENTS. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO PLATE AND ANGLE FABRICATION.

A 13/16" DIA. STOP HOLE SHALL BE DRILLED AT THE END OF ANY CRACK FOUND. GRIND DEFECTS SMOOTH, ENSURING THERE ARE NO NOTCHES.

PLATES, ANGLES, & BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

RIVET REMOVAL AND HOLE REAMING (IF REQUIRED), SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS", EACH.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS.

NEW STEEL PLATES & ANGLES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE AND ANGLE STEEL SHALL CONFORM TO ASTM A709 GRADE 36. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-856", LS.

PRIOR TO INSTALLING NEW PLATES & ANGLES, SPOT CLEAN AND PAINT AREAS BELOW NEW PLATES AS DIRECTED BY THE ENGINEER, INCLUDED IN "STRUCTURE SPOT CLEANING AND PAINTING" ITEM.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-856

DRAWN BY CAD | PLANS CK'D. DMB

FLOOR BEAM REPAIRS

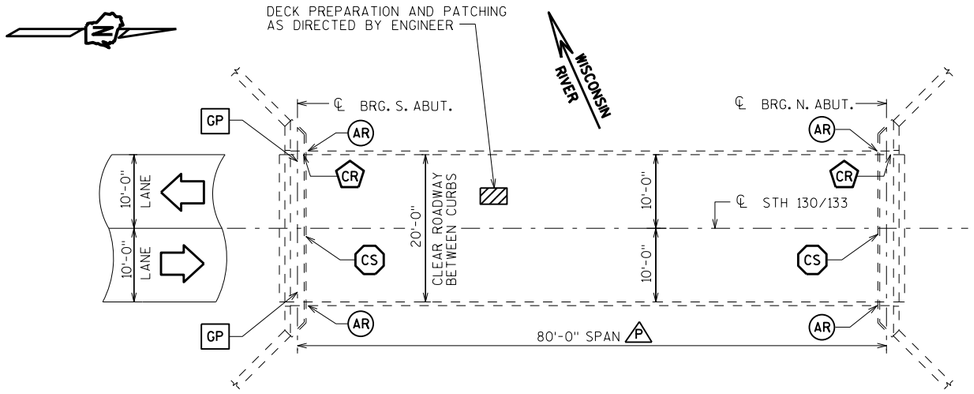
SHEET 13

46

SCALE = 0.30

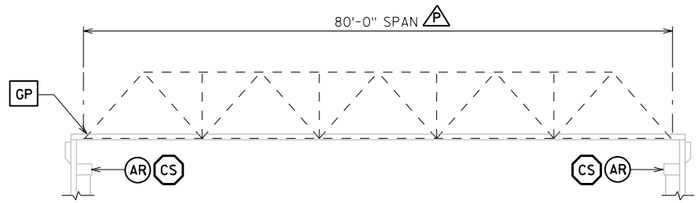
STATE PROJECT NUMBER

5770-01-61



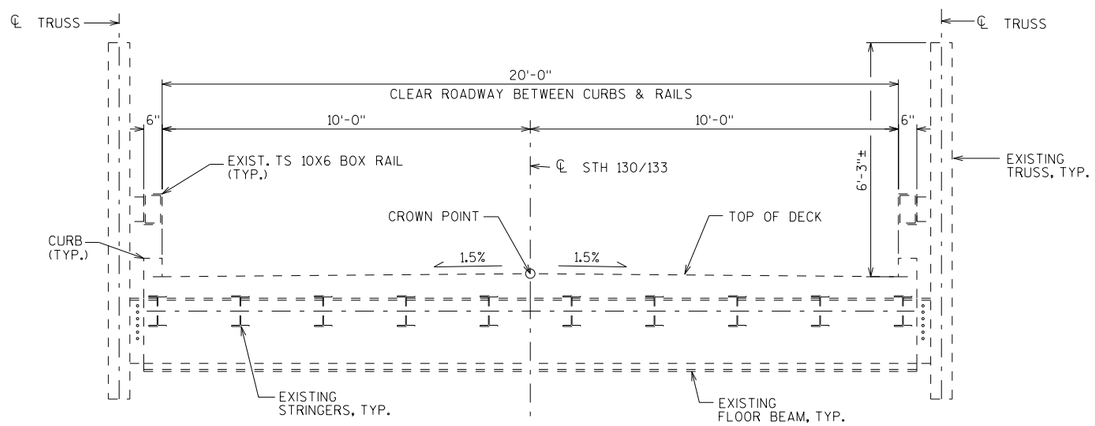
PLAN

NORTH TRUSS BRIDGE
("SPAN NO. 5" FROM 1932 BRIDGE PLAN)



ELEVATION

LOOKING WEST
("SPAN NO. 5" FROM 1932 BRIDGE PLAN)



TYPICAL CROSS SECTION

LOOKING NORTH

REHABILITATION LEGEND

- P — STRUCTURE SPOT CLEANING & PAINTING
  -AS DIRECTED BY ENGINEER OVER ENTIRE BRIDGE
- GP — GUSSET PLATE REPAIR
  -AT INSIDE GUSSET PLATES- EAST & WEST TRUSS @ S.ABUT.
- AR — ABUTMENT REPAIR
  -TYPICAL AT ALL FOUR BEARING POINTS
- CS — CONCRETE SURFACE REPAIRS
- CR — CURB REPAIR
  -TYPICAL NEAR JOINTS AT BOTH ENDS OF BRIDGE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL FIELD CONNECTIONS SHALL BE MADE WITH A325 HIGH-TENSILE STRENGTH BOLTS.

THE COLOR OF THE FINISH EXTERIOR EPOXY TOP COAT SHALL BE LIGHT GRAY, (FEDERAL STANDARD COLOR NO. 26293) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

PREPARATION DECKS TYPE 1 AND PREPARATION DECKS TYPE 2 REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AREAS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

DESIGN DATA

LIVE LOAD:

DESIGN RATING: HS-20
INVENTORY RATING: HS-13
OPERATING RATING: HS- 22
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 180 (KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY:
ALL — f'c = 4,000 P.S.I.

STRUCTURAL CARBON STEEL:
ASTM A709, GRADE 36 — Fy = 36,000 P.S.I.

TRAFFIC DATA:

A.D.T. = 2,200 (2009)
A.D.T. = 2,900 (2040)
R.D.S = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
502.0100	CONCRETE MASONRY BRIDGES	CY	7
502.4106	ADHESIVE ANCHORS 3/4-INCH	EACH	32
506.0105	STRUCTURAL STEEL CARBON	LB	3,235
506.3009	WELDED STUD SHEAR CONNECTORS 3/4X5-INCH	EACH	48
509.0301	PREPARATION DECKS TYPE 1	SY	1
509.0302	PREPARATION DECKS TYPE 2	SY	1
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	10
509.1200	CURB REPAIR	LF	10
509.1500	CONCRETE SURFACE REPAIR	SF	60
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	1
SPV.0060	REMOVING RIVETS	EACH	14
SPV.0105	STRUCTURE SPOT CLEANING AND PAINTING B-52-857	LS	1
SPV.0180	ABUTMENT SEAT CLEANING AND SEALING	SY	12

LIST OF DRAWINGS

1. GENERAL PLAN
2. ABUTMENT REPAIRS
3. GUSSET PLATE REPAIRS

STRUCTURE DESIGN CONTACTS:

CHRISTOPHER DOLL (608) 266-3229
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 12/9/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-52-857

STH 130/133 OVER WISCONSIN RIVER

COUNTY: RICHLAND
TOWN ~~CITY/VILLAGE~~: BUENA VISTA

DESIGN SPEC. REHABILITATION - N/A

DESIGNED BY	CAD	DESIGNED CK'D.	DMB	DRAWN BY	WWR	PLANS CK'D.	DMB

GENERAL PLAN

SHEET 1 OF 3

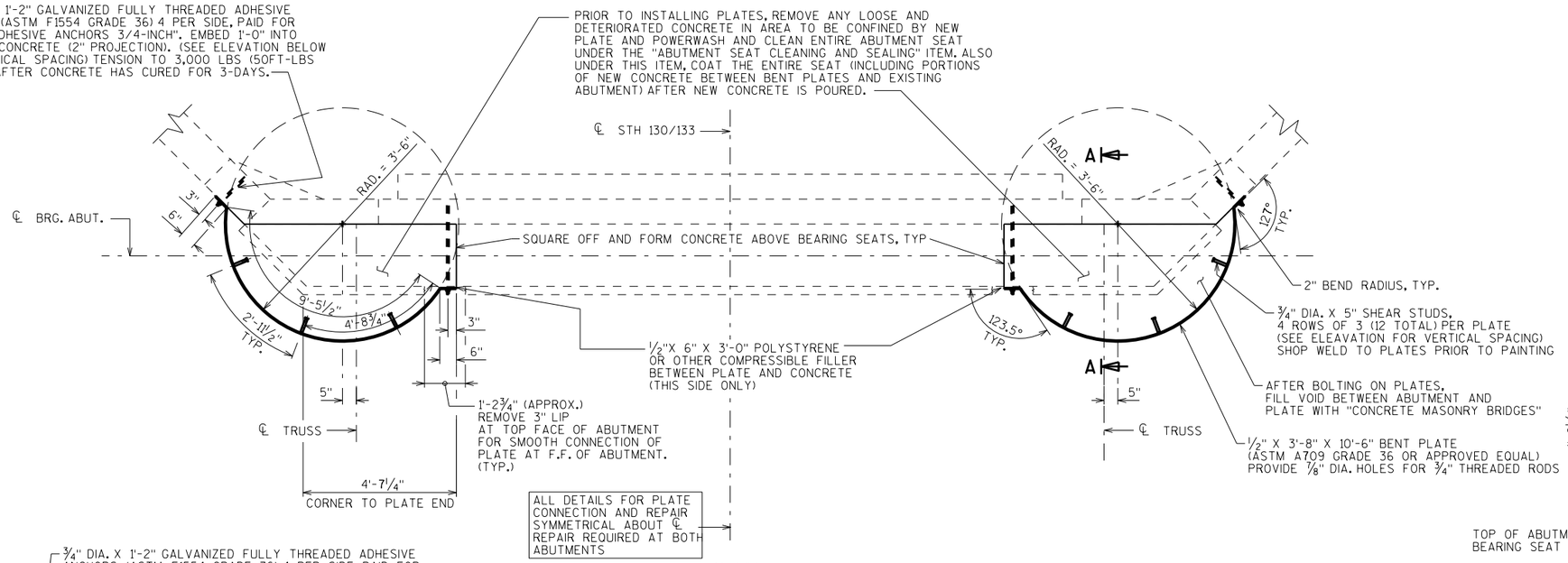
47

I.D. 5770-01-31B DATE: OCT. 2019

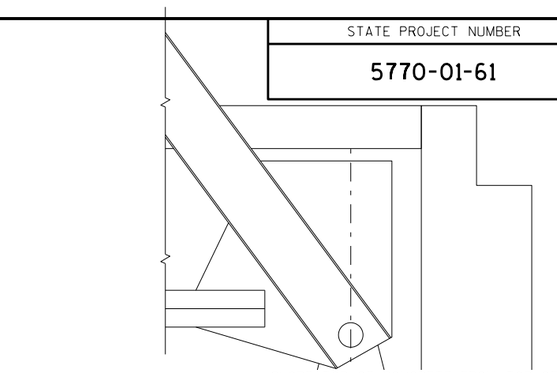
SCALE = 10.00

STATE PROJECT NUMBER

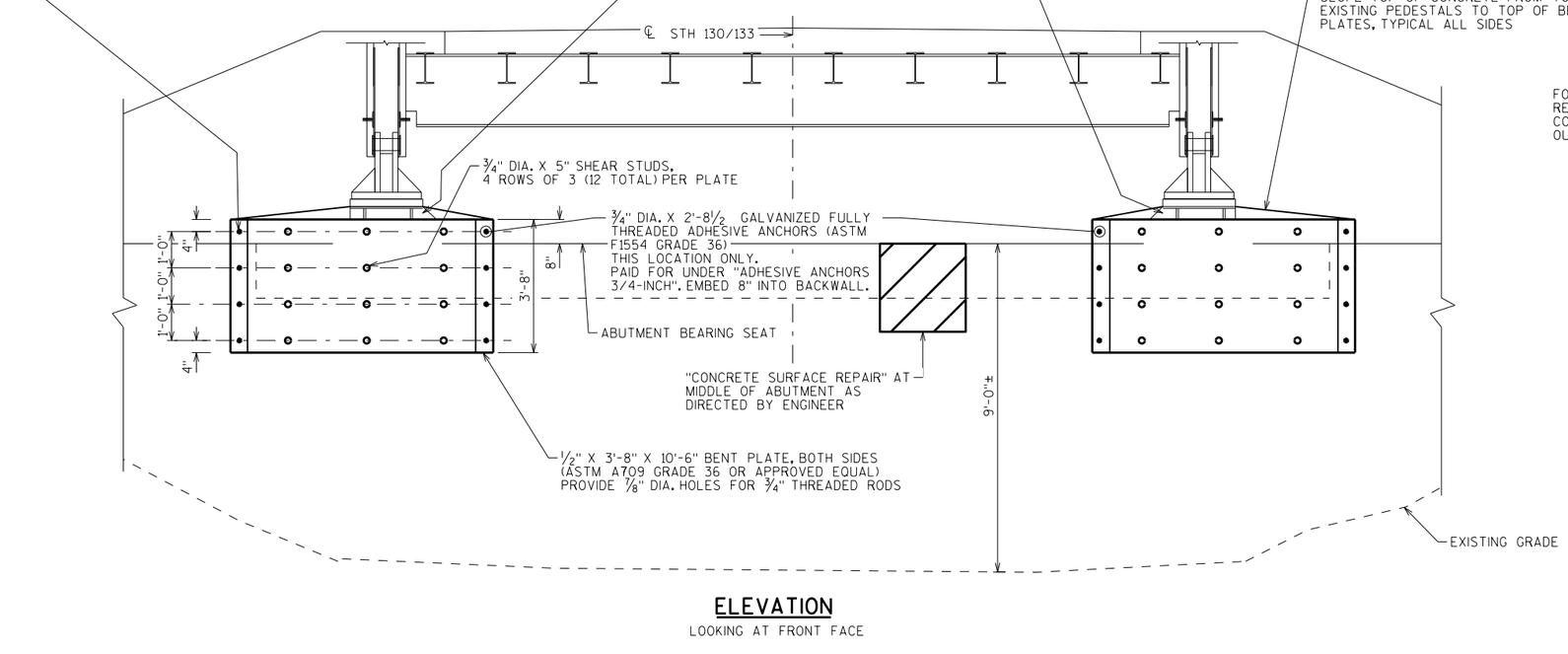
5770-01-61



PLAN



SECTION A-A



ELEVATION

LOOKING AT FRONT FACE

NOTES

AFTER FABRICATION, STEEL PLATES SHALL RECEIVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 6 AND BE SHOP PAINTED WITH ONE COAT OF ZINC-RICH PRIMER AND ONE COAT OF HIGH-BUILD BROWN EPOXY PAINT. ALL PRIMER, PAINT, AND PAINTING SHALL BE IN CONFORMANCE WITH SECTION 517 OF THE STANDARD SPECIFICATIONS. SHOP PRIMING AND PAINTING SHALL BE CONSIDERED INCIDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

CONCRETE SURFACE REPAIR LOCATIONS SHOWN MAY NOT BE ALL INCLUSIVE. QUANTITIES SHOWN ON SHT. 1 ARE APPROXIMATE. ADDITIONAL REPAIRS MAY BE REQUIRED DURING CONSTRUCTION AND SHOULD BE PERFORMED AS DIRECTED BY THE FIELD ENGINEER.

ALL SURFACE REPAIR AREAS SHALL BE DEFINED BY ½" MIN. SAWCUT.

DETAILS SHOWN ARE TYPICAL AT BOTH ABUTMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-857

DRAWN BY WWR | PLANS CK'D. DMB

ABUTMENT REPAIRS

SHEET 2

48

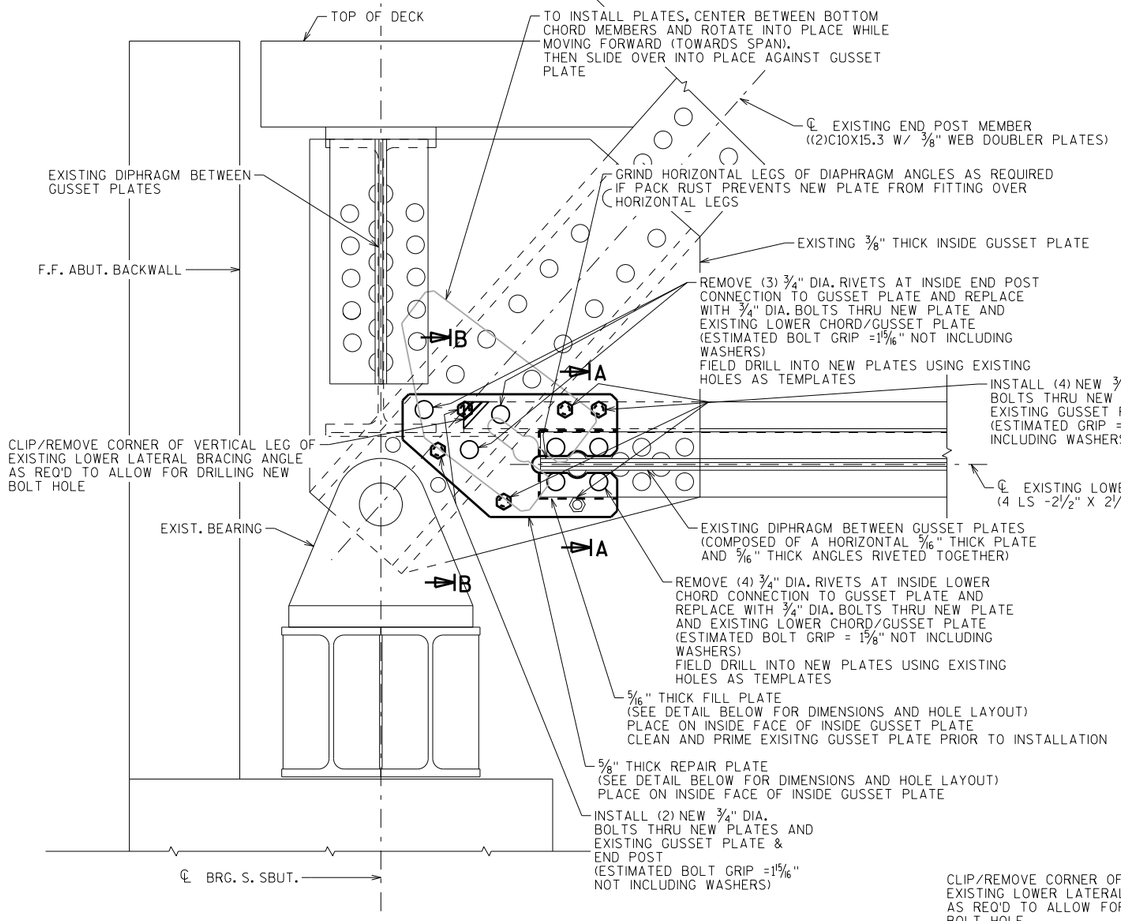
SCALE = 2.00

8

8

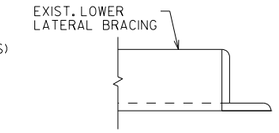
STATE PROJECT NUMBER

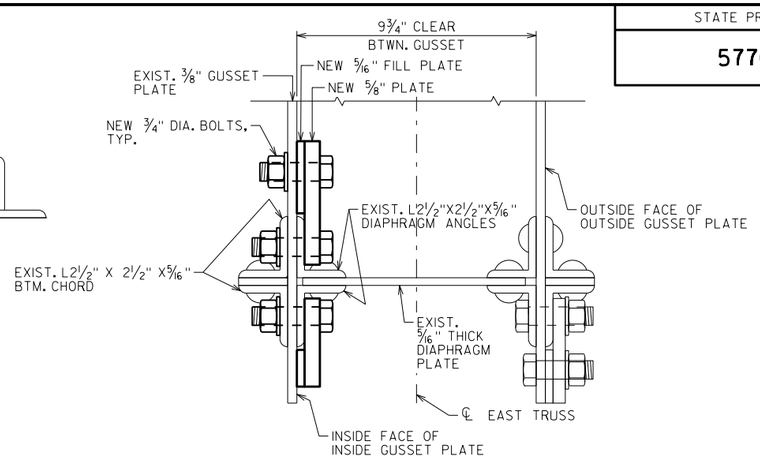
5770-01-61



GUSSET PLATE REPAIR AT SOUTH ABUTMENT AT BOTH TRUSSES

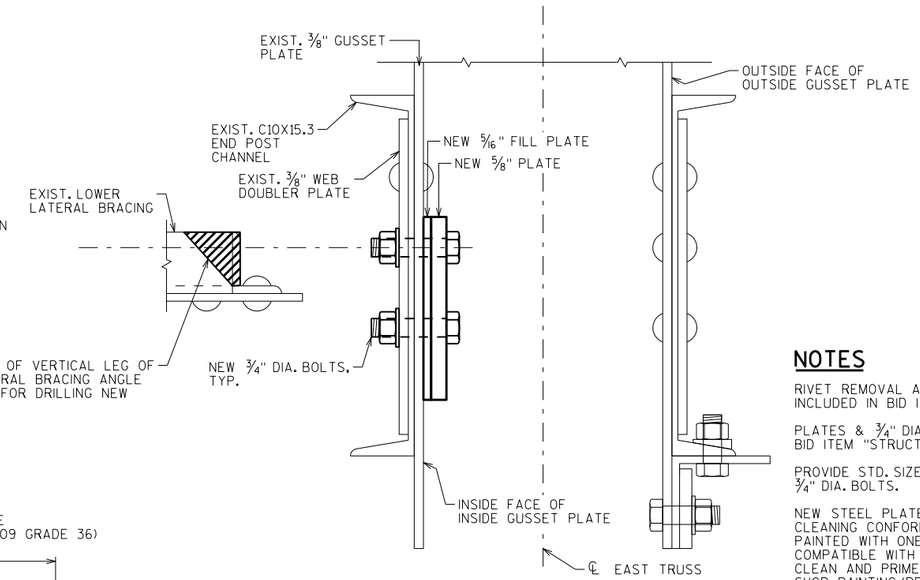
(ELEVATION VIEW LOOKING AT INSIDE FACE OF INSIDE GUSSET PLATE OF EAST TRUSS SHOWN, WEST TRUSS MIRRORED)
TYPICAL AT INSIDE FACES OF INSIDE GUSSET PLATES OF BOTH TRUSSES





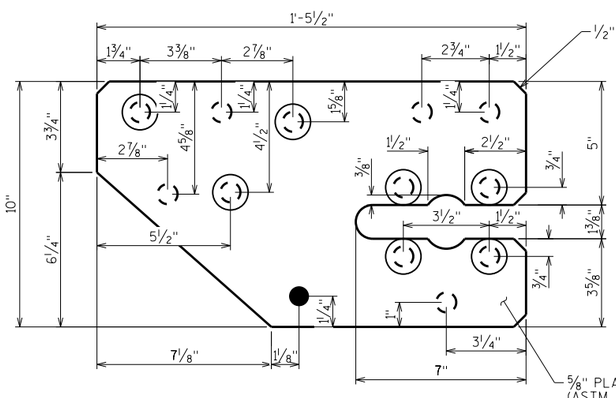
SECTION A-A

(SECTION THRU EAST TRUSS SHOWN, WEST TRUSS MIRRORED)



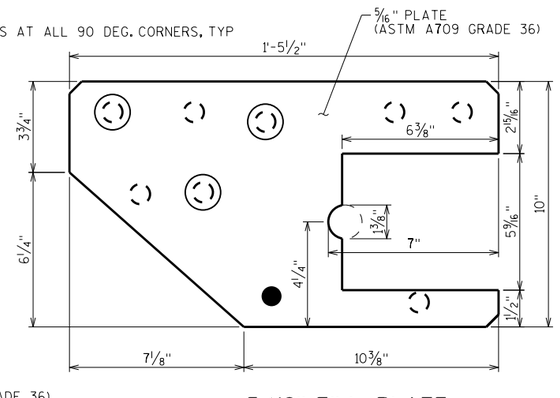
SECTION B-B

(SECTION THRU EAST TRUSS SHOWN, WEST TRUSS MIRRORED)



5/8" REPAIR PLATE

(2 REQ'D)
ALL HOLES 13/16" DIA. FOR 3/4" BOLTS



5/16" FILL PLATE

(2 REQ'D)
ALL HOLES 13/16" DIA. FOR 3/4" BOLTS
FOR HOLE LOCATIONS/DIMS, SEE "5/8" REPAIR PLATE" DETAIL

BOLT HOLE LEGEND

- ● SHOP DRILLED HOLE
- ( ) FIELD DRILLED HOLE -(SLIGHT ADJUSTMENTS IN LOCATIONS ALLOWED IF REQ'D TO ALLOW FOR DRILL CLEARANCE, AS APPROVED BY ENGINEER)
- (( )) FIELD DRILLED HOLE AT EXISTING RIVET HOLE -DIMENSION SHOWN ARE APPROXIMATE, DRILL HOLES AT ACTUAL LOCATIONS ENCOUNTERED IN THE FIELD

NOTES

RIVET REMOVAL AND HOLE REAMING SHALL BE INCLUDED IN BID ITEM "REMOVING RIVETS", EACH.

PLATES & 3/4" DIA. BOLTS SHALL BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON", LB.

PROVIDE STD. SIZE 13/16" DIA. HOLES IN PLATE FOR 3/4" DIA. BOLTS.

NEW STEEL PLATES SHALL RECIEVE A SHOP BLAST CLEANING CONFORMING TO SSPC-SP 10 AND BE PAINTED WITH ONE COAT OF ZINC-RICH PRIMER COMPATIBLE WITH THE FIELD APPLIED TOP COATS. CLEAN AND PRIME AFTER SHOP DRILLING HOLES. SHOP PAINTING/PRIMING SHALL BE CONSIDERED INCEDENTAL TO BID-ITEM "STRUCTURAL STEEL CARBON".

PLATE STEEL SHALL CONFORM TO ASTM A709 GRADE 36

FIELD POWER CLEANING AND TOP COAT PAINTING TO BE INCLUDED IN BID ITEM "STRUCTURE SPOT CLEANING AND PAINTING B-52-857", LS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-52-857

DRAWN BY	CAD	PLANS CK'D.	DMB

GUSSET PLATE REPAIRS

SHEET 3

49

SCALE = 0.50

8

8

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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