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GENERAL NOTES

A DETAILED STUDY OF THE REDUNDANCY FOR THIS STRUCTURE VERIFIED THAT THERE ARE A DETAILED STUDY OF THE REDUNDANCY FOR THIS STRUCTURE VERTIFIED THAT THERE ARE NO ELEMENTS TO BE OFFICIALLY CLASSIFIED AS FRACTURE CRITICAL MEMBERS. HOWEVER, SOME MEMBERS AND/OR ELEMENTS OF THEM SHALL BE FURNISHED, FABRICATED, AND TESTED IN ACCORDANCE WITH REQUIREMENTS FOR FRACTURE CRITICAL MEMBERS (SEE FOLLOWING NOTES). AFTER COMPLETION OF CONSTRUCTION, FUTURE INSPECTIONS OF THE IN-SERVICE BRIDGE WILL BE PERFORMED ON THE BASIS OF IT BEING CLASSIFIED AS A REDUNDANT

ALL STRUCTURAL STEEL PLATE FOR BOX GIRDER FLANGES AND WEBS, BOX GIRDER FLANGE AND WEB SPLICE PLATES, EXTERNAL AND INTERNAL DIAPHRAGMS FOR BOX GIRDERS, AND ALL OTHER STEEL PLATE COMPONENTS WELDED TO ANY OF THESE ELEMENTS SHALL BE HIGH STRENGTH ASTM ATO9 (AASTM ATO9 CRADE FOR (FY=50 KSI). ALL OTHER STEEL SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE 50 (FY=50 KSI).

ALL STRUCTURAL STEEL PLATE FOR BOX GIRDER FLANGES AND WEBS IN TENSION ZONES AS SHOWN ON THE PLANS AND ALL ASSOCIATED SPLICE PLATES, ALL ATTACHING TRANSVERSE WEB STIFFENERS AND CONNECTION PLATES, AND ALL STEEL PLATE ELEMENTS OF EXTERNAL AND INTERNAL DIAPHRAGMS FOR BOX GIRDERS SHALL MEET THE FRACTURE CRITICAL TENSION COMPONENT IMPACT TEST REQUIREMENTS OF HPS 50WF/HPS 345WF OF TABLE 10 OF ASTM A709/A709M-OS FOR 70NE 2 A709/A709M-05 FOR ZONE 2.

ALL WELDING PERFORMED IN TENSION ZONES SHOWN ON THE PLANS FOR BOX GIRDER WEB AND FLANGE ELEMENTS, INCLUDING ATTACHING TRANSVERSE WEB STIFFENER AND CONNECTION PLATES, AND ALL WELDING PERFORMED FOR ALL ELEMENTS OF EXTERNAL AND INTERNAL STEEL PLATE DIAPHRAGMS FOR BOX GIRDERS SHALL BE PERFORMED, TESTED, AND INSPECTED IN ACCORDANCE WITH REQUIREMENTS FOR FABRICATION OF FRACTURE CRITICAL MEMBERS.

CHARPY V-NOTCH TOUGHNESS REQUIREMENTS FOR ALL STEEL SHALL CONFIRM TO THE REQUIREMENTS FOR ZONE 2.

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES. ALL STATIONS AND ELEVATIONS ARE IN FEET.

ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.

GIRDERS AND OTHER ELEMENTS OF THE STRUCTURE ARE REFERRED TO AS 'LEFT' AND 'RIGHT'. THESE ORIENTATIONS ARE WITH RESPECT TO THE REFERENCE LINE WHEN LOOKING IN THE DIRECTION OF INCREASING STATION.

TRANSVERSE DIMENSIONS ARE RADIAL TO THE REFERENCE LINE UNLESS NOTED OTHERWISE.

ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT AASHTO/AWS D1.5 BRIDGE

USE WELD MATERIAL WITH A TENSILE STRENGTH AT LEAST 20 KSI GREATER THAN THE YIELD STRENGTH OF THE STEEL BEING WELDED. NON-WEATHERING CONSUMABLES MAY BE USED FOR SINGLE-PASS FILLET WELDS.

FABRICATE BEARING ASSEMBLIES FROM ASTM A709 GRADE 50 MATERIAL (FY=50 KSI).

PROVIDE ANCHOR RODS, NUTS AND WASHERS CONFORMING TO ASTM F1554 (GRADE 105) AND HOT-DIP GALVANIZE IN ACCORDANCE WITH AASHTO M232.

ALL BOLTS SHALL BE ASTM A325 TYPE 1. BOLTS SHALL BE 7/8" DIAMETER UNLESS NOTED OTHERWISE, ALL HOLES SHALL BE STANDARD DIAMETER. NO OVERSIZE HOLES WILL BE PERMITTED WITHOUT PRIOR APPROVAL, ALL CONNECTIONS SHALL BE FABRICATED AND ASSEMBLED AS SLIP-CRITICAL CONNECTIONS. DESIGN ASSUMED SURFACE CLASS A.

PAINT ALL STRUCTURAL STEEL, INCLUDING SURFACES AND BRACING MEMBERS ON THE INSIDE OF THE BOX GIRDERS, IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THIS CONTRACT INCLUDES FABRICATING, FURNISHING, STORING AND DELIVERING STRUCTURAL STEEL AND BEARINGS AS SHOWN IN THESE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	QUANTITY
SPV.0060.01	BEARINGS HIGH-LOAD MULTI-ROTATIONAL FIXED	EACH	2
SPV.0060.02	BEARINGS HIGH-LOAD MULTI-ROTATIONAL UNI-DIRECTIONAL	EACH	4
SPV.0085.01	FABRICATED STRUCTURAL STEEL HPS 50W	LB	759,249
SPV.0085.02	FABRICATED STRUCTURAL STEEL HS	LB	56,729
SPV.0105.01	PAINTING POLYSILOXANE SYSTEM STRUCTURE B-05-661	LS	1

DESIGN CRITERIA

DESIGN IS IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH 2008 AND 2009 INTERIM REVISIONS, AND THE WISDOT BRIDGE MANUAL.

ALL DETAILS, MATERIALS, AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION EDITION OF 2010, EXCEPT AS OTHERWISE NOTED.

LIVE LOAD PLUS DYNAMIC LOAD DEFLECTION LIMIT = SPAN / 800 (HL93).

DESIGN LIVE LOAD

DESIGN LOADING: HL-93

INVENTORY RATING FACTOR: RF = 1.29

OPERATING RATING FACTOR: RF = 1.67

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

OTHER DESIGN LOADS

THE STRUCTURE IS DESIGNED FOR THE DECK THICKNESS SHOWN, WHICH INCLUDES A $11\!/\!_2$ INTEGRAL WEARING SURFACE. NO ADDITIONAL LOAD FOR A FUTURE WEARING SURFACE IS CONSIDERED IN THE DESIGN.

TEMPERATURE CHANGE FOR DETERMINING THERMAL FORCES ON SUBSTRUCTURES = 90°F.

BEARING MOVEMENT RANGE IS BASED ON BEARING CENTERED AT 60°F AND ACCOMODATING 90°F OF MOVEMENT IN EITHER DIRECTION.

DESIGN ASSUMED A WEIGHT PER GIRDER OF 10 PSF FOR STAY-IN-PLACE METAL FORMS INSIDE EACH GIRDER ONLY AND 13.5 PSF FOR CONCRETE WITHIN THE

DESIGN ASSUMED 7.5 PSF FOR TEMPORARY FORMWORK IN ADDITION TO

PARAPETS WERE ASSUMED TO WEIGH 525 PLF AND 420 PLF FOR 42" AND 32" SECTIONS RESPECTIVELY.

ALL OTHER LOADS IN ACCORDANCE WITH AASHTO.

MINIMUM FILLET WELD SIZE:

THICKNESS OF THICKER PART JOINED	MINIMUM WELD SIZE
T <= 1/2"	3/16 ''
1/2" < T <= 3/4"	1/4"
3⁄4" < T <= 1 ¹ /2"	5/16 ''
1½" < T <= 2½"	3/8"
T > 2 ¹ / ₄ "	1/2"

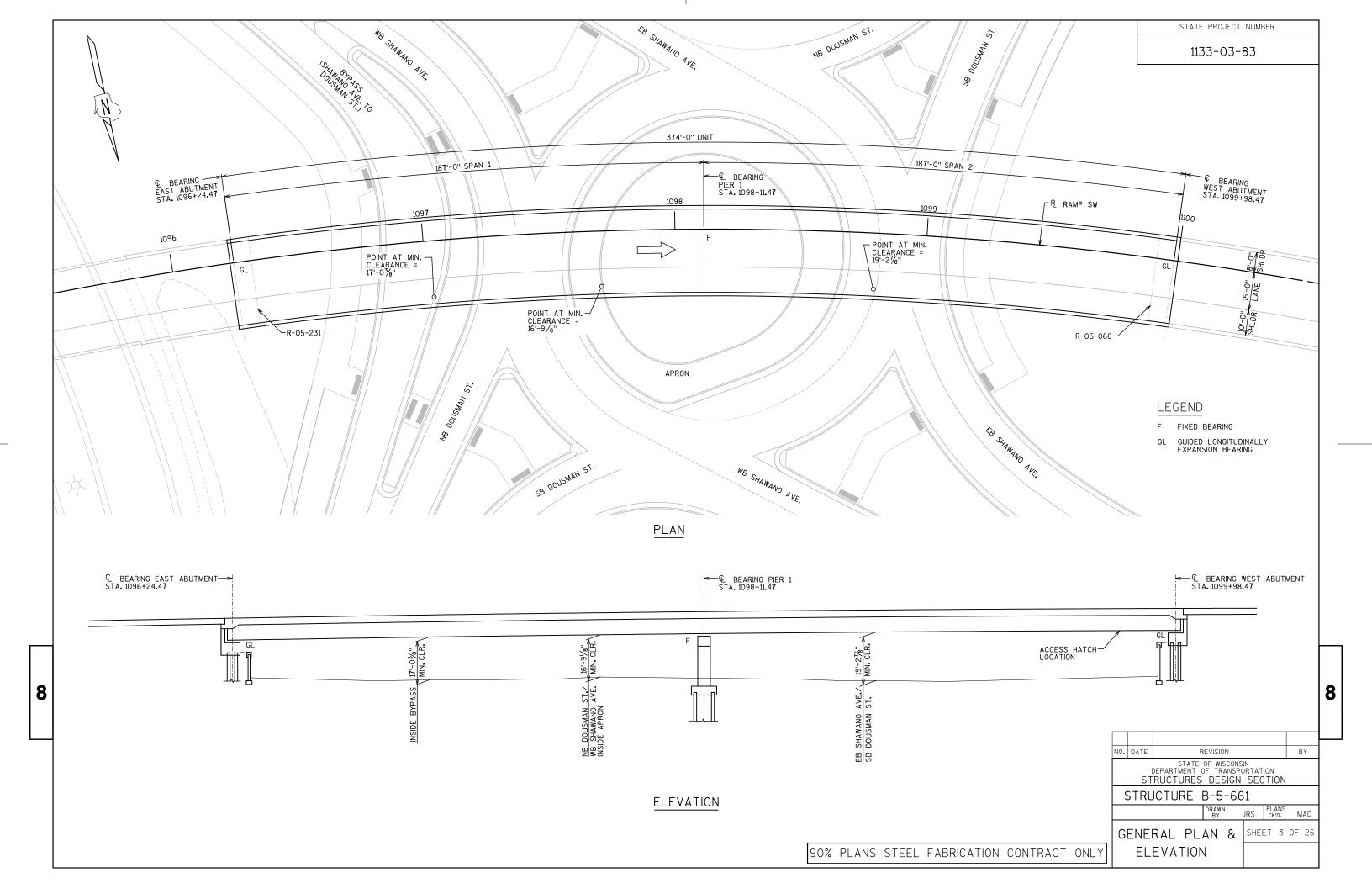
MINIMUM WELD SIZES SHOWN SHALL BE USED WHEN A SIZE IS NOT OTHERWISE SPECIFIED OR SHOWN.

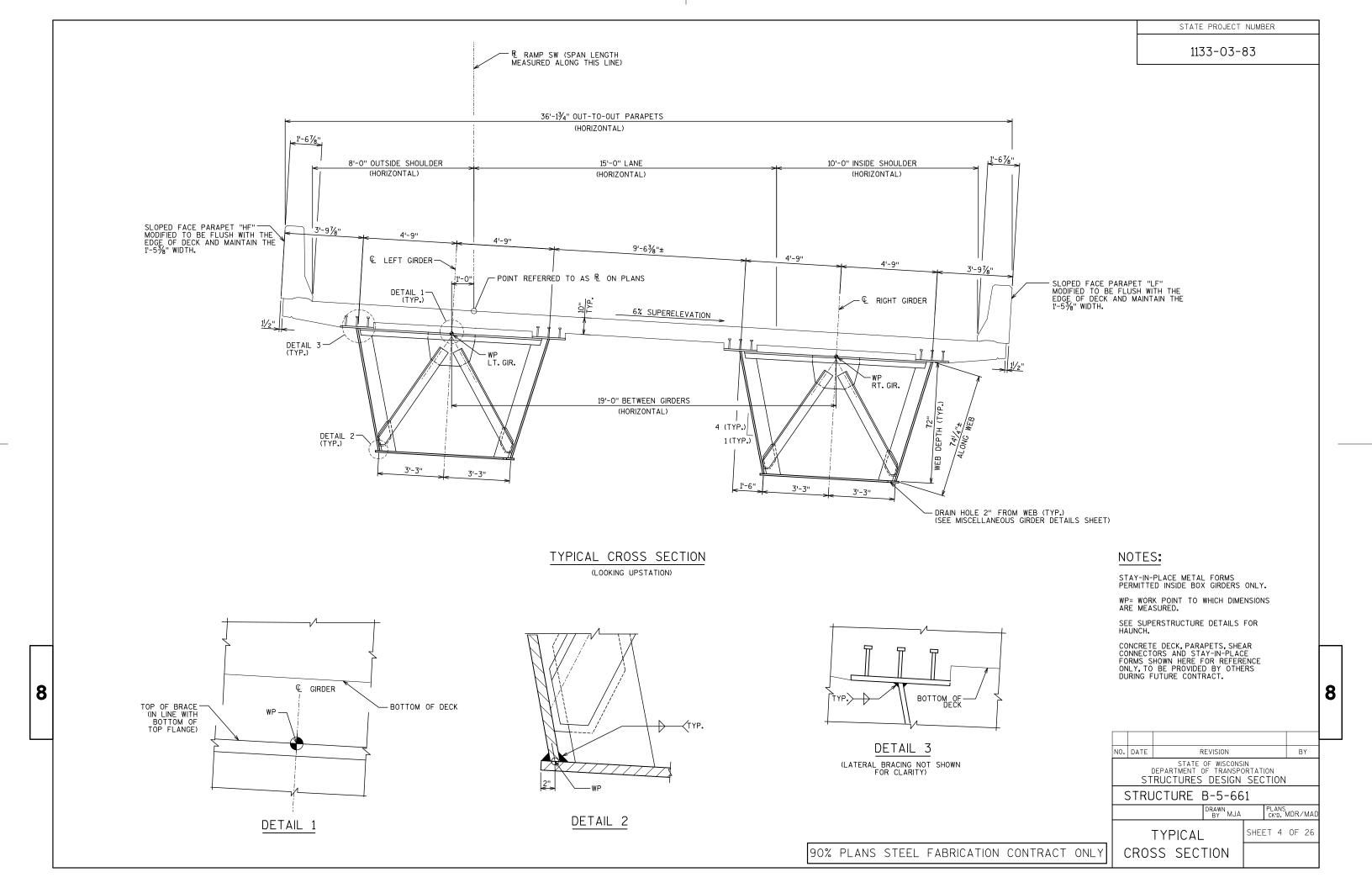
WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART BEING JOINED.

FOR ALL WELDS \(\frac{1}{6}\)" OR LARGER, THE MINIMUM PASS SIZE SHALL BE \(\frac{1}{6}\)".

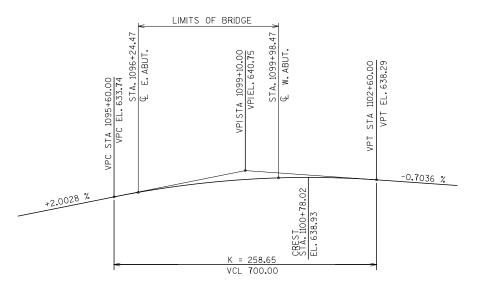
NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-5-661 DRAWN MJA PLANS MDR 8

AND

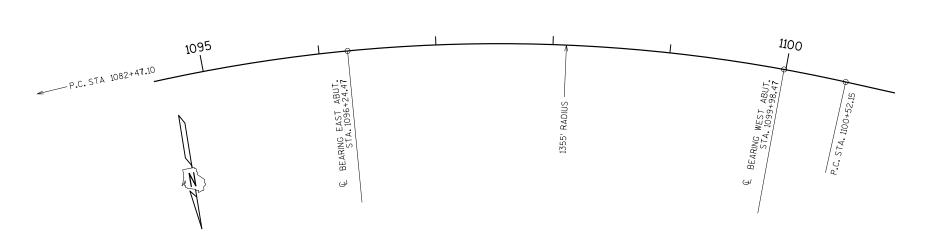




1133-03-83



PROFILE GRADE LINE SB USH 41 TO WB STH 29



HORIZONTAL ALIGNMENT SB USH 41 TO WB STH 29

SB USH 41 TO WB STH 29 HORIZONTAL CURVE DATA

P.I. STA.= 1093+11.97 N= 576333.17 E= 83559.79 P.C. STA.= 1082+47.10 P.T. STA.= 1100+52.15 Δ= 76°19'33.09" D= 4°13'42.49" T= 1064.86' L= 1805.05' R= 1355.00'

S.E. = 6.0% ACROSS STRUCTURE

NO. DATE BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-661 PLANS CK'D. MDR

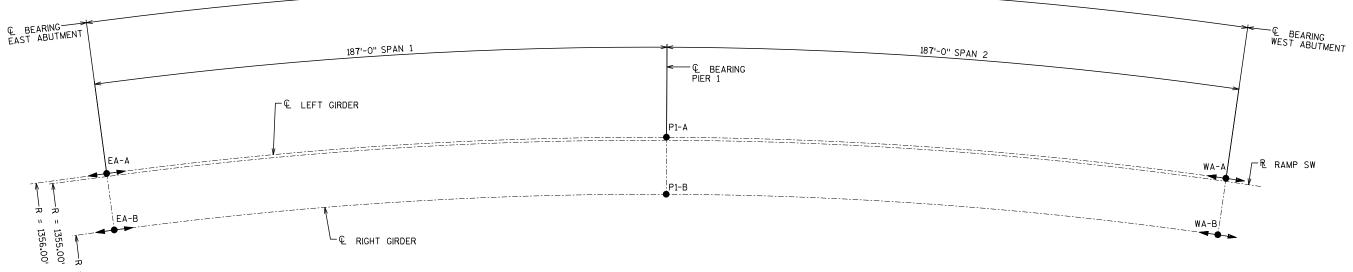
ALIGNMENT LAYOUT

SHEET 5 OF 26

8

90% PLANS STEEL FABRICATION CONTRACT ONLY

1133-03-83



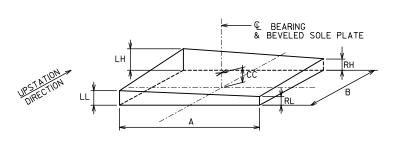
BEARING LAYOUT

374'-0" UNIT

BEARING	BEARING	SERVICE STATE V LOA	/ERTICAL ADS	1		ROTA		MOVEMENT RANGE (FOR 180 DEG.)	Р		RED SO			NOMINAL BEARING DIMENSIONS				MIN. ANCHOR	MIN. TOP		
MARK	TYPE	DEAD LOAD	TOTAL LOAD	TRAN.	LONGIT.	X-AXIS	Y-AXIS FLEXURE	LONGIT.	LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	H (IN)	BOLTS	BOLTS
		(KIPS)	(KIPS)	(KIPS)	(KIPS)	(RAD)	(RAD)	(IIV)	(IIV)	(114)	(114)	(IIN)	(IIN)	(IIV)	(IIV)	(114)	(IIV)	(114)	(IIN)		
EA-A	GUIDED	358	645	43	69	0.0005	0.0080	2.63	2.98	1.00	3.37	1.39	2.19	33	22.5	29.5	21.50	1 .7 5	7. 50	4-1" DIA.	4-1" DIA.
EA-B	GUIDED	358	645	43	69	0.0005	0.0080	2.63	2.98	1.00	3.37	1.39	2.19	33	22.5	29.5	21.50	1.75	7. 50	4-1" DIA.	4-1" DIA.
P1-A	FIXED	1012	1467	86	75	0.0002	0.0019	N/A	3.13	1.00	3.41	1.28	2.21	35.5	2 7. 5	39 . 5	31.50	1 .7 5	9.125	6-1" DIA.	4-1" DIA.
P1-B	FIXED	1012	1467	86	7 5	0.0002	0.0019	N/A	3.13	1.00	3.41	1.28	2.21	35 . 5	2 7. 5	39.5	31.50	1 .7 5	9.125	6-1" DIA.	4-1" DIA.
WA-A	GUIDED	358	645	43	69	0.0005	0.0080	2.63	2.98	1.00	3.05	1.07	2.02	33	22.5	29.5	21.50	1.75	7.50	4-1" DIA.	4-1" DIA.
WA-B	GUIDED	358	645	43	69	0.0005	0.0080	2.63	2.98	1.00	3.05	1.07	2.02	33	22.5	29.5	21.50	1 .7 5	7. 50	4-1" DIA.	4-1" DIA.

BEARING ASSEMBLY (SIMPLIFIED FOR CLARITY. SEE BEARING DETAILS FOR ADDITIONAL INFORMATION.) MASONRY PLATE

BEARING DIMENSION KEY



BEVELED SOLE PLATE DIMENSION KEY

(HOLES MATCHING INTERMEDIATE LOAD PLATE NOT SHOWN FOR CLARITY)

BEARING LEGEND

MULTIROTATIONAL FIXED

MULTIROTATIONAL UNIDIRECTIONAL (GUIDED)
ARROWHEADS DENOTE MOVEMENT DIRECTIONS

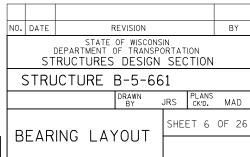
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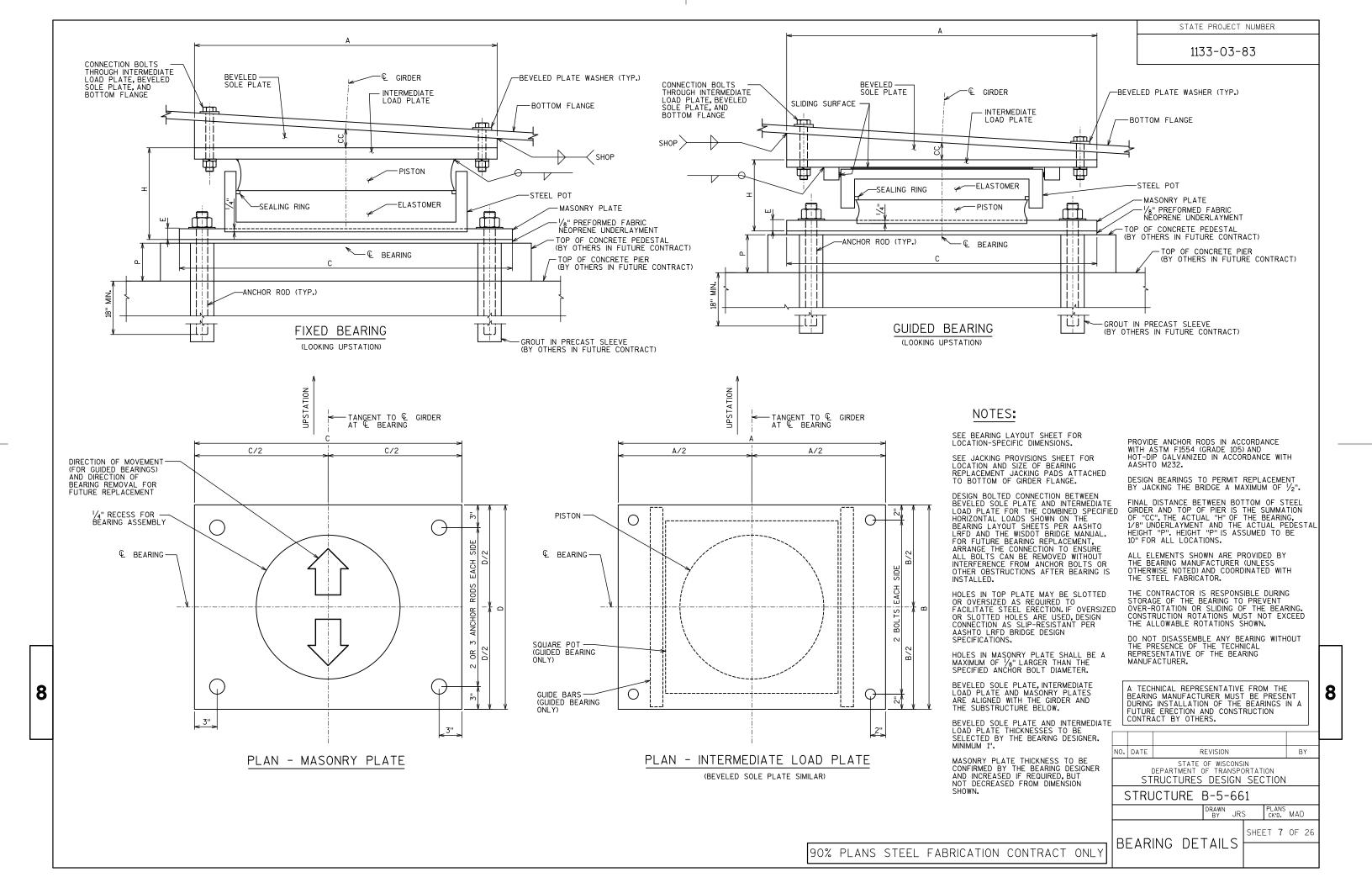
SEE BEARING DETAILS SHEET FOR TYPICAL BEARING DETAILS

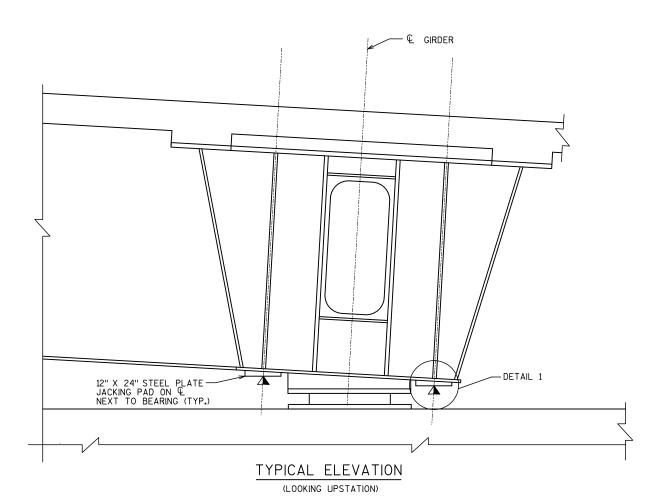
BEARING DIMENSIONS SHOWN ARE NOMINAL VALUES ONLY AND MAY VARY WITH THE SELECTED MANUFACTURER. IF BEARING DIMENSIONS VARY FROM THOSE SHOWN HERE, THE BEARING MANUFACTURER SHALL COORDINATE WITH THE STEEL GIRDER FABRICATOR TO ASSURE THERE ARE NO CONFLICTS WITH JACKING PADS OR ANY OTHER STEEL ELEMENTS. THE STEEL GIRDER FABRICATOR IS RESPONSIBLE TO DETERMINE WHAT ELEMENTS REQUIRE RE-DESIGN AND TO RE-DESIGN THEM, SUBJECT TO APPROVAL BY THE ENGINEER.

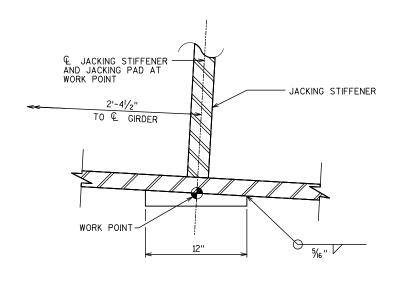
HORIZONTAL FORCES SPECIFIED IN THE TABLE ARE THE EXPECTED APPLIED FORCES. DESIGN BEARINGS AND CONNECTIONS FOR THESE VALUES OR 10 PERCENT OF THE VERTICAL DEAD LOAD, WHICHEVER IS LARGER.

ROTATIONS SPECIFIED IN THE TABLE ARE THE EXPECTED APPLIED ROTATIONS FROM APPLICABLE STRENGTH LOAD COMBINATIONS.
DESIGN BEARINGS FOR AN ADDITIONAL 0.005 RADIANS FOR FABRICATION AND INSTALLATION TOLERANCES, AND 0.005 RADIANS FOR UNCERTAINTIES.
DESIGN ALL BEARINGS FOR A MINIMUM 0.020 RADIANS OF TOTAL ROTATION.









DETAIL 1 NOT TO SCALE

LEGEND:

▲ SUGGESTED JACKING LOCATIONS FOR FUTURE BEARING REPLACEMENT.

NOTES:

THIS DRAWING SHOWS DETAILS AND LOCATION OF JACKING PADS AND ADDITIONAL JACKING STIFFENERS REQUIRED FOR FUTURE BEARING REPLACEMENT.

JACKING PAD DIMENSIONS AND LOCATIONS ARE BASED ON THE MINIMUM CLEARANCES SHOWN AND THE NOMINAL BEARING DIMENSIONS GIVEN ON BEARING LAYOUT SHEETS, MAKE ADJUSTMENTS AS REQUIRED TO ACCOMMODATE ACTUAL BEARINGS SUPPLIED.

JACKING PADS ARE PROVIDED TO GIVE A JACKING SURFACE THAT IS APPROXIMATELY LEVEL AND TO ENSURE THAT JACKING LOADS ARE APPLIED TO THE CORRECT LOCATION.

ADDITIONAL MEASURES SHALL BE TAKEN TO CORRECT FOR ANY UNINTENDED SLOPE AND TO ENSURE THAT JACKS ARE POSITIVELY HELD IN POSITION ON THE JACKING PADS.

ESTIMATED JACKING FORCES ARE GIVEN AT EACH PAD AND ARE BASED ON DEAD LOAD AND LIVE LOAD REACTIONS ONLY AND NO ADDITIONAL ALLOWANCES HAVE BEEN MADE. THESE FORCES MUST BE INCREASED TO ALLOW FOR JACK FRICTION AND OTHER FACTORS. RECOMMENDED MINIMUM JACK CAPACITY IS 2 TIMES THE TABULATED VALUES.

FORCES AND RECOMMENDATIONS ARE PROVIDED FOR INFORMATION ONLY AND MUST BE VERIFIED BY THE ENGINEER RESPONSIBLE FOR JACKING OPERATIONS.

CONTROL JACKS TO ENSURE THAT FORCES APPLIED TO ALL JACKING PADS AT A SINGLE BEARING LOCATION ARE APPROXIMATELY EQUAL. IF THIS REQUIREMENT IS NOT MET, A COMPLETE ANALYSIS OF THE PIER DIAPHRAGM SYSTEM WILL BE REQUIRED IN ORDER TO ACCOUNT FOR THE REDISTRIBUTION OF FORCES WITHIN THE SYSTEM.

€ JACKING PAD——>
LH RH ORECTON RL 12"
JACKING PAD DIMENSION KEY

	NUMBER	LEFT	BOX JAC	KING PA	D DIME	NSIONS	RIGH	г вох .	JACKING	PAD DIMI	ENSIONS	MIN. JACK
LOCATION	OF PADS	LL	RL	LH	RH	CC	LL	RL	LH	RH	CC	FORCE
	PER BOX	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(KIP)
E. ABUT	2	1 .7 2	1.00	2.14	1.42	1.57	1.72	1.00	2.14	1.42	1.57	330
PIER 1	2	1.72	1.00	1.97	1.25	1.48	1 .7 2	1.00	1.97	1.25	1.48	7 40
W. ABUT	2	1 .7 2	1.00	1.79	1.07	1.40	1.72	1.00	1.79	1.07	1.40	330

MINIMUM JACK FORCE IS PER JACKING PAD.

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-661

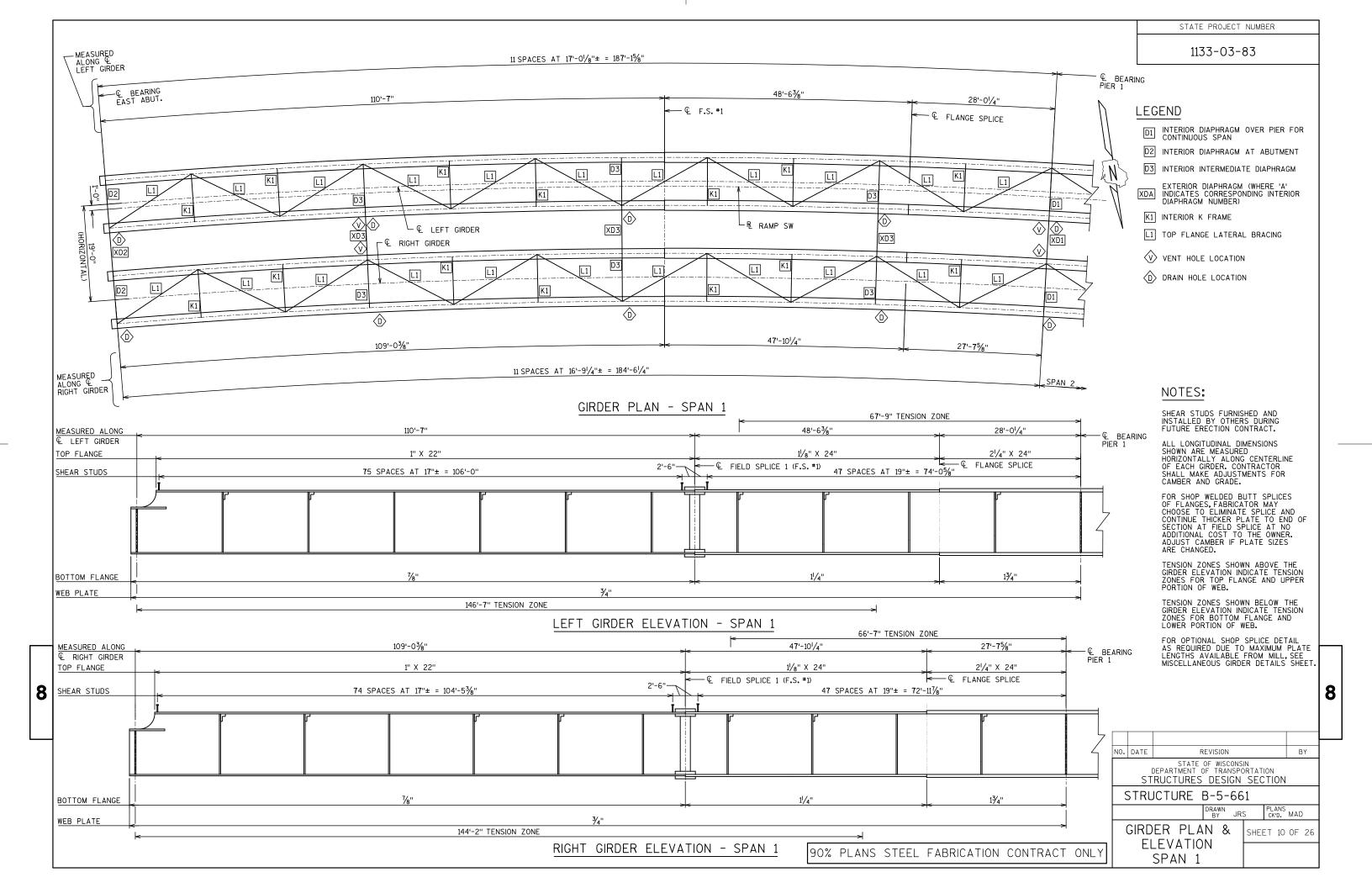
DRAWN BY JRS PLANS CKYD. MAD

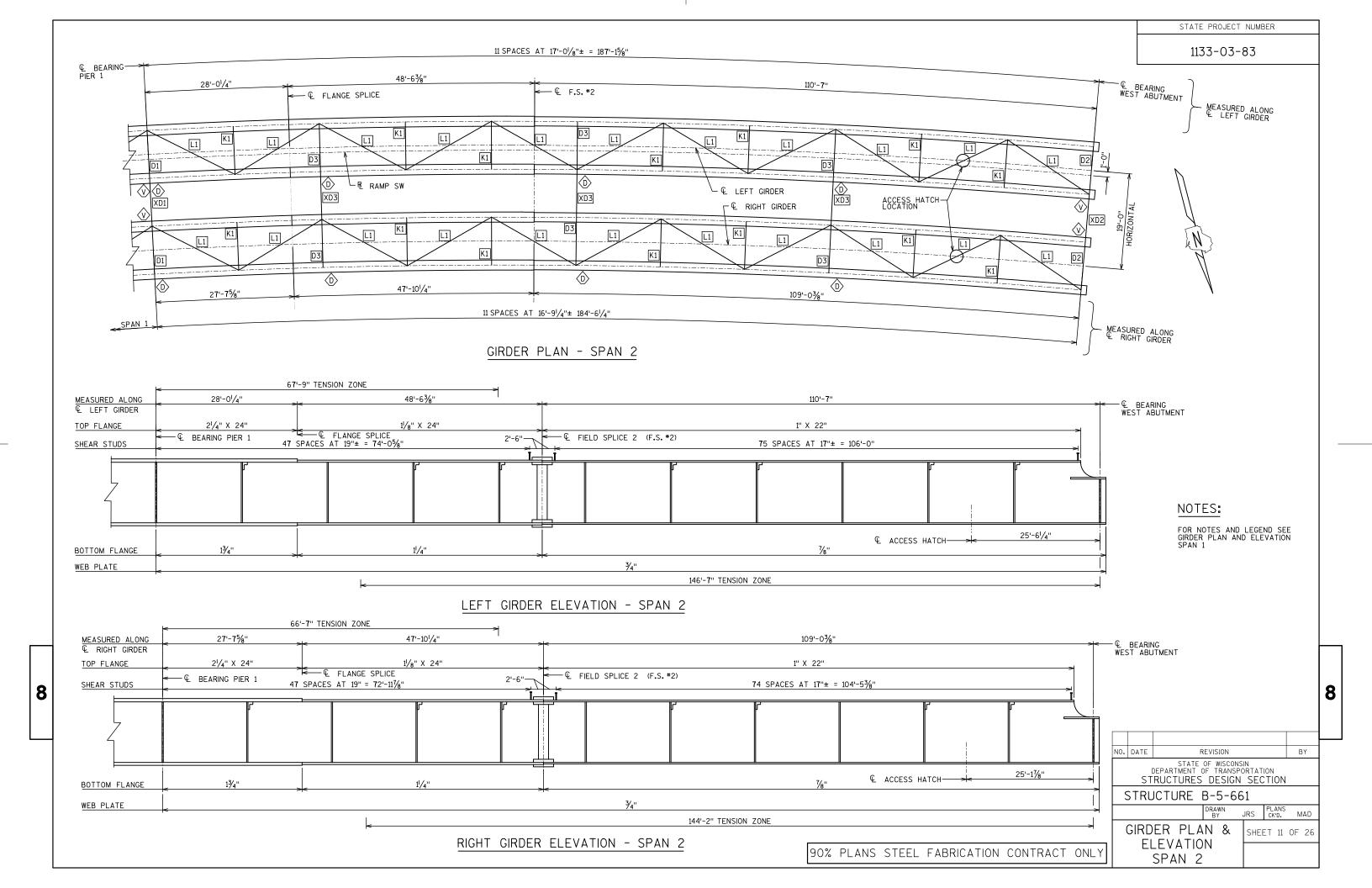
JACKING SHEET 8 OF 26
PROVISIONS

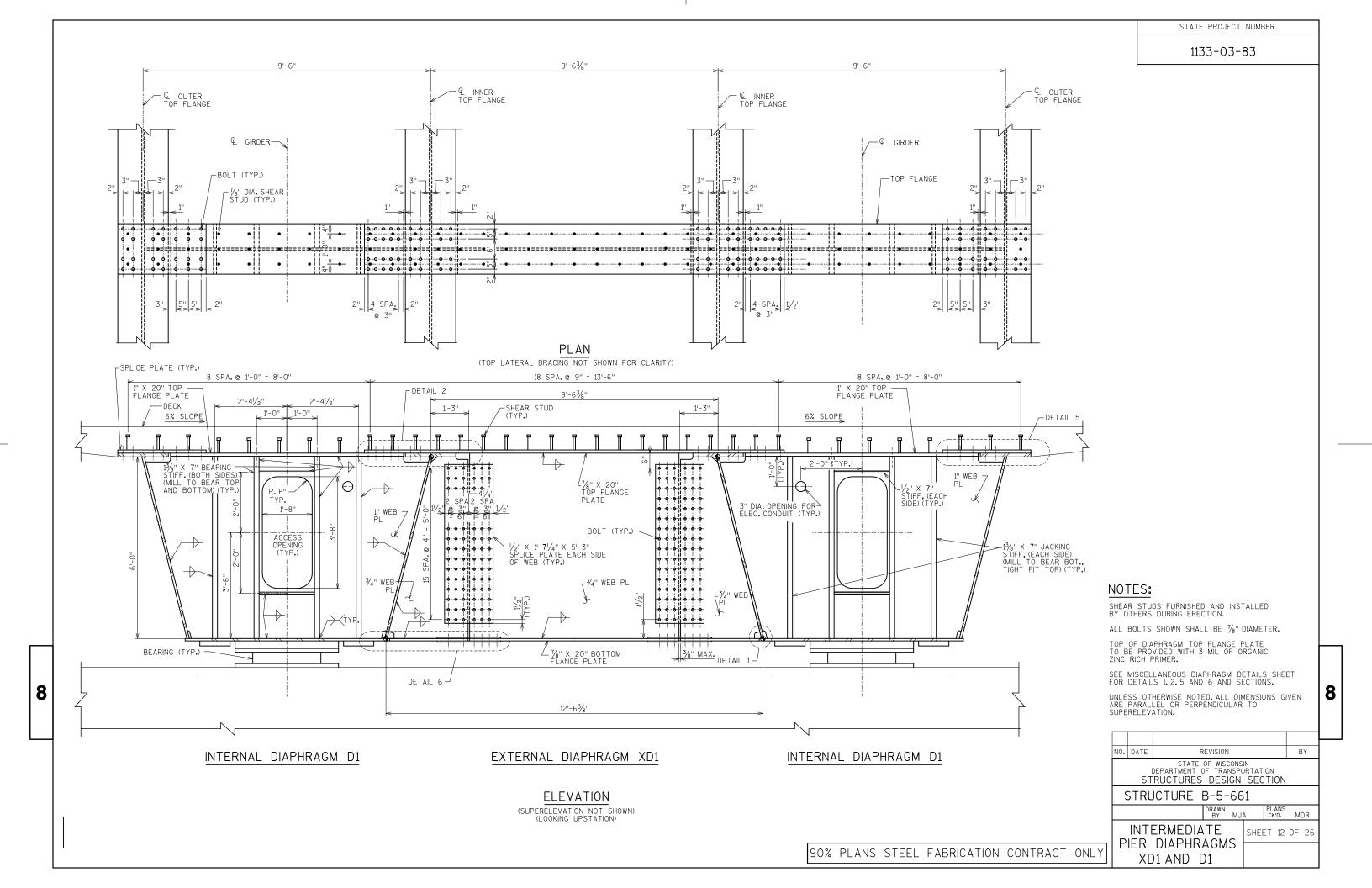
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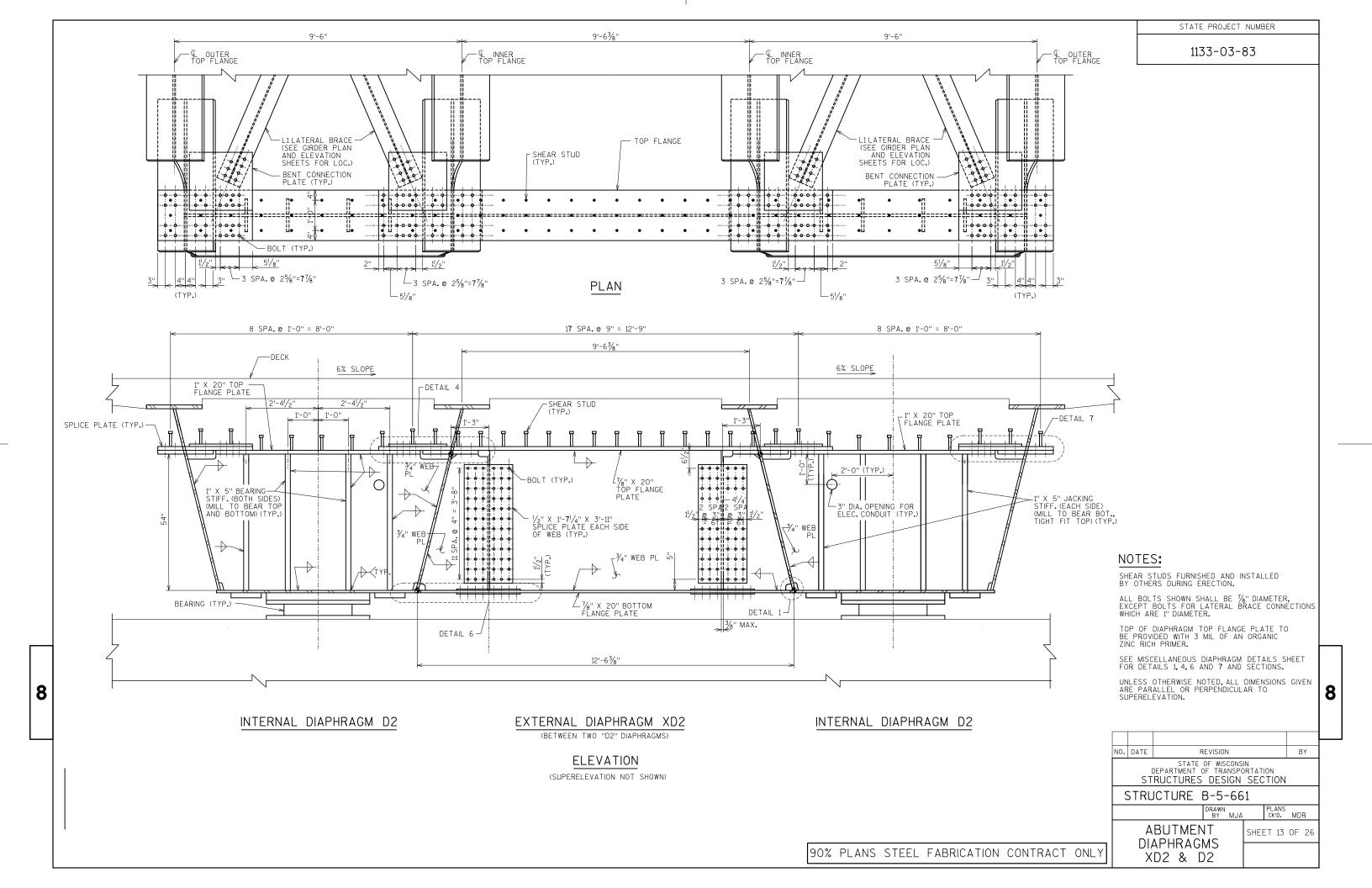
90% PLANS STEEL FABRICATION CONTRACT ONLY

STATE PROJECT NUMBER 1133-03-83 374'-0" UNIT —€ BEARING WEST ABUTMENT 187'-0" SPAN 2 11 EQUAL PANELS 187'-0" SPAN 1 11 EQUAL PANELS −Œ BEARING PIER 1 — € F.S. #1 -€ LEFT GIRDER Ç F.S. #2 ACCESS HATCH-LOCATION FR RAMP SW └-Œ RIGHT GIRDER 153'-0" FIELD SECTION 2 110'-6" FIELD SECTION 1 110'-6" FIELD SECTION 3 FRAMING PLAN LEGEND F.S. = BOLTED FIELD SPLICE 8 NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-5-661 PLANS CK'D. MAD SHEET 9 OF 26 FRAMING PLAN 90% PLANS STEEL FABRICATION CONTRACT ONLY









STATE PROJECT NUMBER 1133-03-83 9'-6" 9'-63/8" 9'-6" - © INNER TOP FLANGE - © OUTER TOP FLANGE − € OUTER TOP FLANGE L INNER TOP FLANGE € GIRDER — _—€ GIRDER -BOLT (TYP.) TOP FLANGE -SHEAR STUDS (TYP.) ┢┓╌╌╸╸┩┪═┆╒╅╒╡╫═╌╌╼╚┈╶╸╌╌╸╌┈╸╌┈╸╌┈╸┈┈ 2" 4 SPA. PLAN (LATERAL BRACING NOT SHOWN FOR CLARITY) -SPLICE PLATE (TYP.) 8 SPA. @ 1'-0" = 8'-0" 18 SPA. @ 9" = 13'-6" 8 SPA.@ 1'-0" = 8'-0" 1" X 20" TOP — FLANGE PLATE 1" X 20" TOP — FLANGE PLATE DETAIL 2 9'-63/8" -DECK -SHEAR STUD (TYP.) 1'-3" 1'-0" 1'-0" 6% SLOPE 6% SLOPĘ DETAIL 5 2'-0" TYP.) X 6" STIFFENER-(NEAR SIDE OF WEB T |-=======|H 3/4" WEB 0 -7/8" X 20" GOT TOP FLANGE & PLATE TYP.) 3" DIA. OPENING FOR \(\)
ELEC. CONDUIT (TYP.) 3/4" WEB VERT. STIFF. (FAR SIDE OF WEB ONLY) 1/2" X 6" X 2"-5"-STIFFENER (TYP.) BOLT (TYP.)-ACCESS OPENING (NEAR SIDE ONLY) -1/2" X 1'-71/4" X 5'-3" SPLICE PLATE EACH SIDE OF WEB (TYP.) (TYP.) 3/4" WEB--3/4" WEB PL ======== NOTES: HORIZONTAL STIFF (FAR SIDE ONLY) (TYP.) SHEAR STUDS FURNISHED AND INSTALLED BY OTHERS DURING ERECTION. ALL BOLTS SHOWN SHALL BE $\frac{7}{8}$ " DIAMETER. 3/8" MAX. DETAIL 1-- ½" X 20" BOTTOM FLANGE PLATE TOP OF DIAPHRAGM TOP FLANGE PLATE TO BE PROVIDED WITH 3 MIL OF ORGANIC ZINC RICH PRIMER. DETAIL 3 SEE MISCELLANEOUS DIAPHRAGM DETAILS SHEET FOR DETAILS 1,2,3 AND 5 AND SECTIONS. 8 12'-63/8" UNLESS OTHERWISE NOTED, ALL DIMENSIONS GIVEN ARE PARALLEL OR PERPENDICULAR TO SUPERELEVATION. EXTERNAL DIAPHRAGM XD3 INTERNAL DIAPHRAGM D3 INTERNAL DIAPHRAGM D3 (SHOWING FACE WITH VERTICAL STIFFENERS) NO. DATE BY

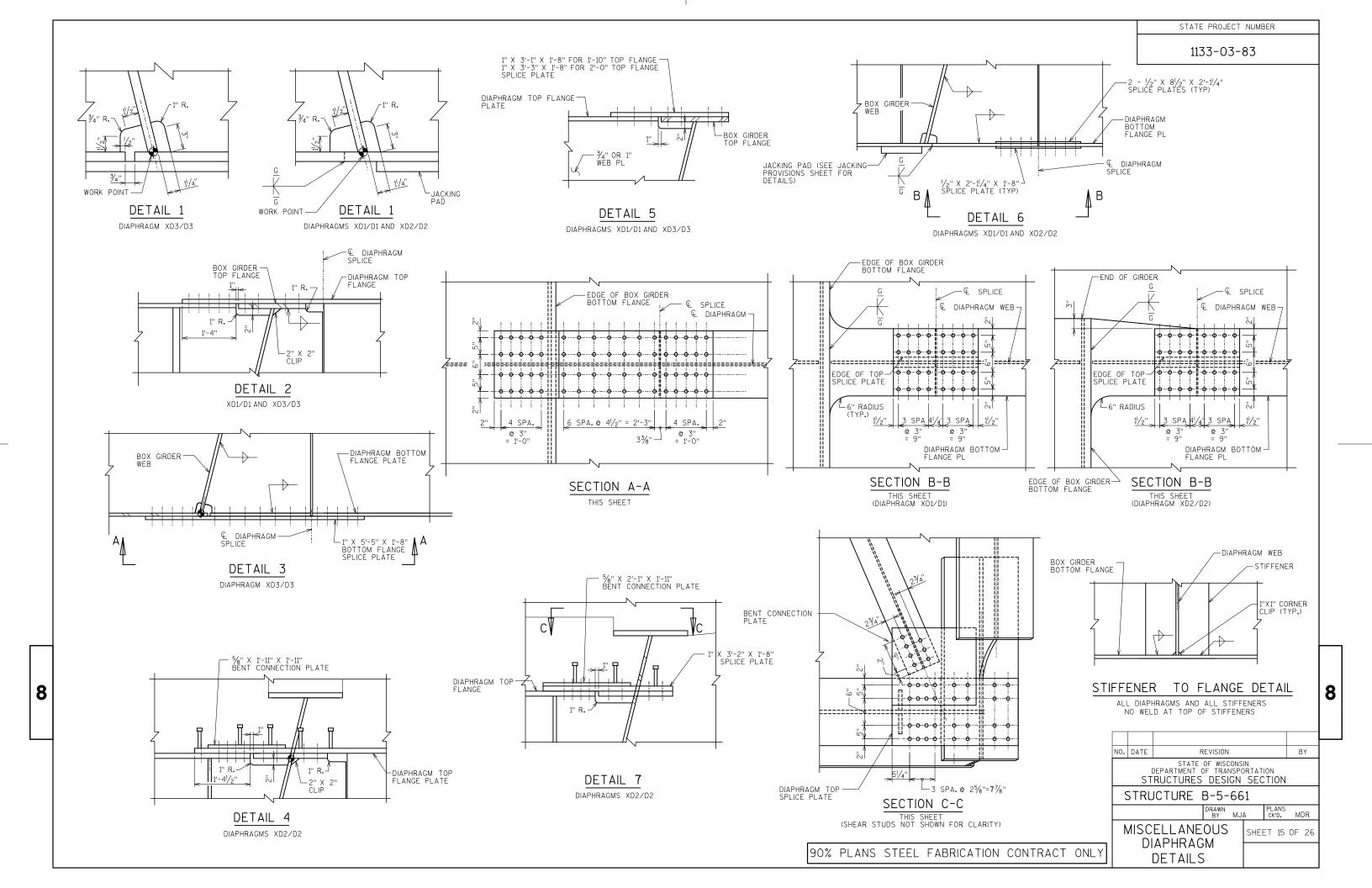
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-5-661 PLANS CK'D. MDR INTERMEDIATE SHEET 14 OF 26 DIAPHRAGMS XD3 AND D3

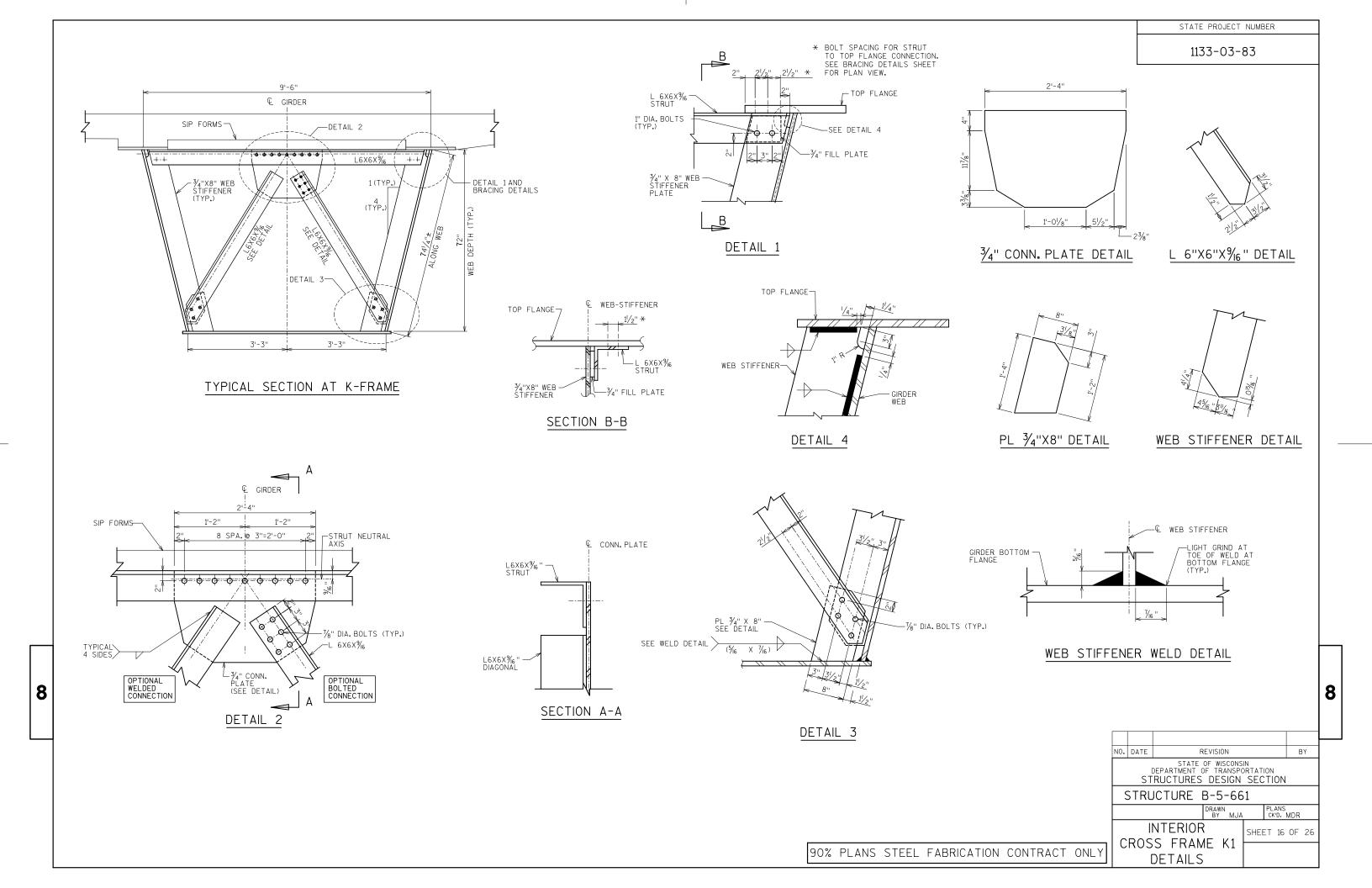
ELEVATION

(SUPERELEVATION NOT SHOWN)
(LOOKING UPSTATION)

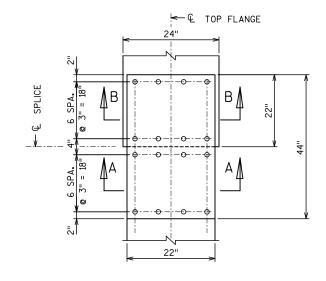
(SHOWING FACE WITH HORIZONTAL STIFFENERS)

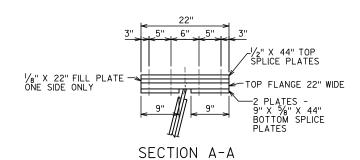
90% PLANS STEEL FABRICATION CONTRACT ONLY



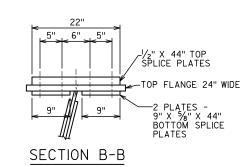




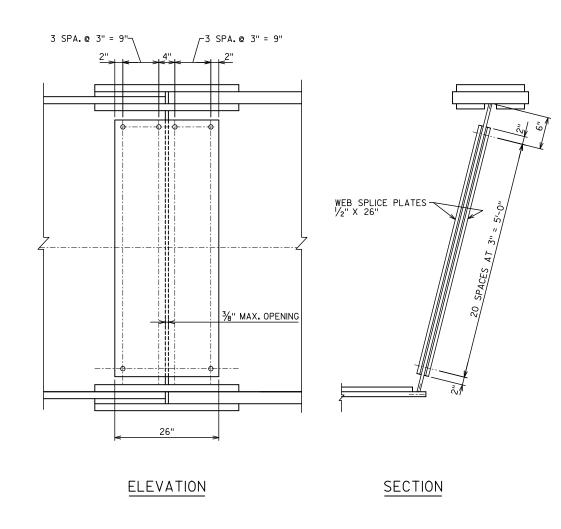




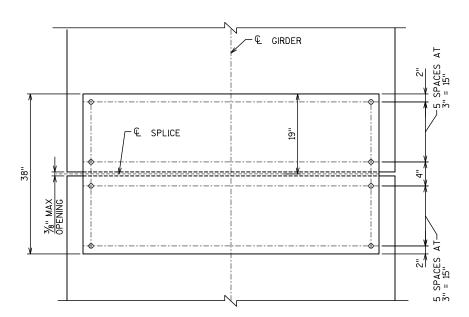
PLAN

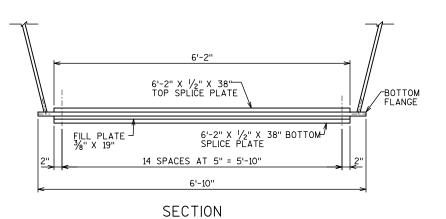


TYPICAL TOP FLANGE CONNECTION



TYPICAL WEB CONNECTION





TYPICAL BOTTOM FLANGE CONNECTION

NOTES:

ALL BOLTS SHOWN ARE $\%\mbox{"}$ DIAMETER ASTM A325 TYPE 1.

ALL HOLES SHALL BE STANDARD DIAMETER NO OVERSIZE HOLES.

ALL CONNECTIONS SHALL BE FABRICATED AND ASSEMBLED AS SLIP-CRITICAL CLASS A CONNECTIONS

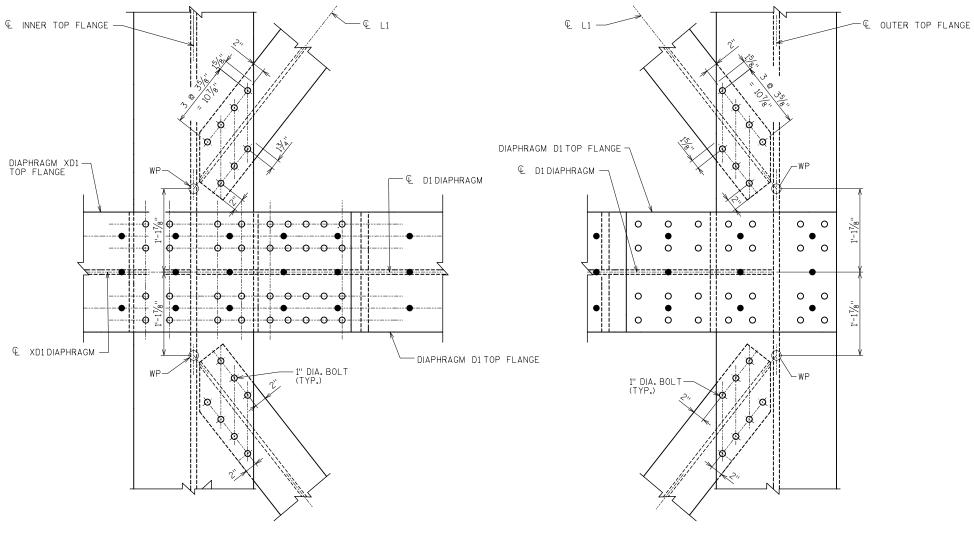
ALL SPLICE PLATES SHALL BE ASTM A709 GRADE HPS 50W.



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1133-03-83



WP STRUT

WEB STIFFENER

PLATE

I" DIA, BOLT

(TYP.)

WP

TOP FLANGE

PLAN VIEW AT DIAPHRAGM XD1/D1

(SHOWING INNER TOP FLANGE) (XD3/D3 SIMILAR)

PLAN VIEW AT DIAPHRAGM XD1/D1

(SHOWING OUTER TOP FLANGE) (XD3/D3 SIMILAR)

PLAN VIEW AT K-FRAME

(SHOWING OUTER TOP FLANGE) (INNER TOP FLANGE SIMILAR)

NOTES:

SEE GIRDER PLAN AND ELEVATION SHEETS FOR LOCATIONS OF DETAILS.

LATERAL BRACE MEMBERS: L1: WT7X41

* SEE INTERIOR CROSS FRAME K-1DETAILS SHEET FOR ADDITIONAL DETAILS FOR BOLTED CONNECTION OF STRUT ANGLE LEG TO WEB STIFFENER. NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-661

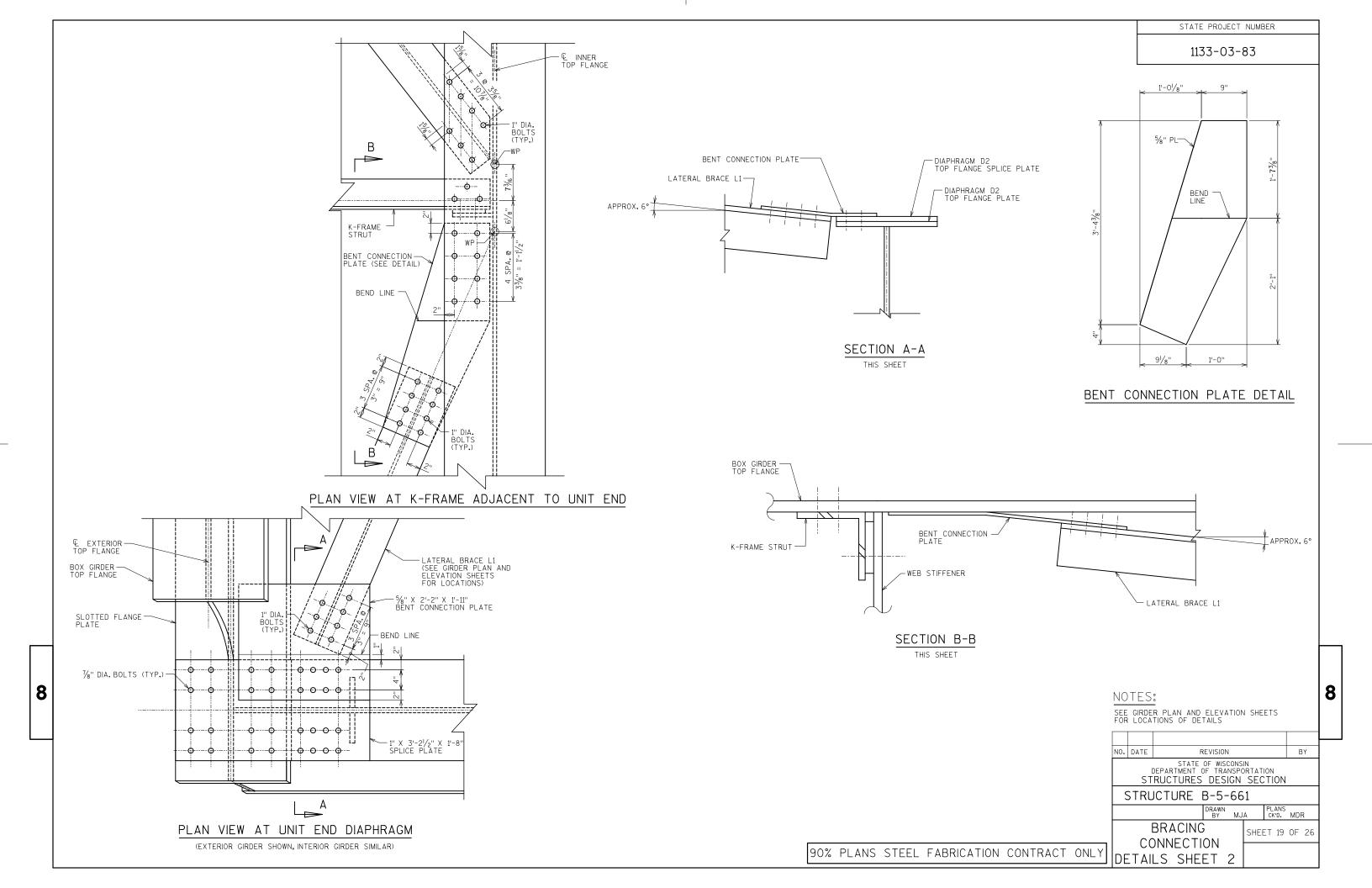
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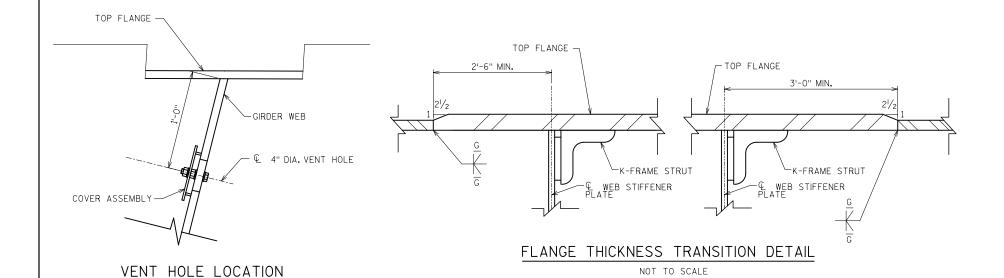
BRACING
CONNECTION
DETAILS

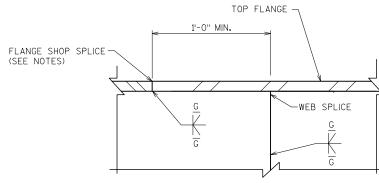
8

90% PLANS STEEL FABRICATION CONTRACT ONLY



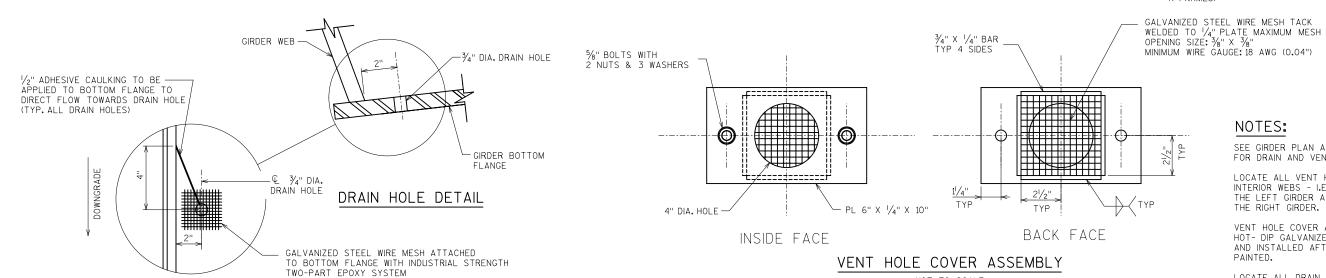


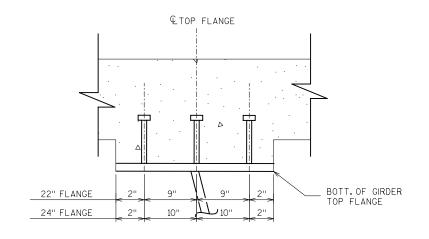




OPTIONAL SHOP SPLICE DETAIL

NOT TO SCALE (SEE FLANGE THICKNESS TRANSITION DETAIL FOR MINIMUM SPACING OF SHOP SPLICES TO STIFFENERS AND K-FRAMES)





NOT TO SCALE

SHEAR STUD SPACING

NOTES:

SEE GIRDER PLAN AND ELEVATION SHEETS FOR DRAIN AND VENT HOLE LOCATIONS.

LOCATE ALL VENT HOLES ON THE INTERIOR WEBS - I.E. THE RIGHT WEB OF THE LEFT GIRDER AND THE LEFT WEB OF THE RIGHT GIRDER.

VENT HOLE COVER ASSEMBLIES SHALL BE HOT- DIP GALVANIZED AFTER FABRICATION AND INSTALLED AFTER GIRDERS ARE PAINTED.

LOCATE ALL DRAIN HOLES ON THE LOW SIDE OF THE GIRDER AS SHOWN.

COST OF ADHESIVE CAULKING, WIRE MESH AND ATTACHMENT IS INCLUDED IN THE COST OF "FABRICATED STRUCTURAL STEEL HPS 50W".

SHEAR STUD CONNECTORS ARE SHOWN FOR REFERENCE ONLY AND ARE NOT FURNISHED OR INSTALLED AS PART OF THIS CONTRACT.

SHEAR CONNECTORS PROVIDED IN FUTURE CONTRACT WILL PENETRATE INTO DECK 2" ABOVE BOTTOM MAT OF REINFORCING STEEL.

FOR FLANGE AND WEB PLATES 2" THICK AND UNDER WITH LENGTHS MORE THAN 90'-0", AND FOR PLATES THICKER THAN 2" WITH LENGTHS MORE THAN 60'-0", ONE OPTIONAL WELDED SHOP SPLICE IS ALLOWED, NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE SPLICES AS REQUIRED DUE TO MAXIMUM PLATE LENGTHS AVAILABLE FROM MILL.

NO.	NO. DATE REVISION										
		STATE DEPARTMENT (RUCTURES		RTAT							
,	STRL	JCTURE	B-5-66	1							
			DRAWN BY MJA	4	PLANS CK'D.	MDR					
	MISC	ELLANE	:OUS	SHE	ET 20	OF 26	ò				
	GIRD	ER DET	AILS								

1/8"± HEADED TOP OF DECK SLAB SHEAR STUD. TYP. **£**TOP FLANGE BOTT, OF GIRDER TOP FLANGE SHEAR STUD DETAIL

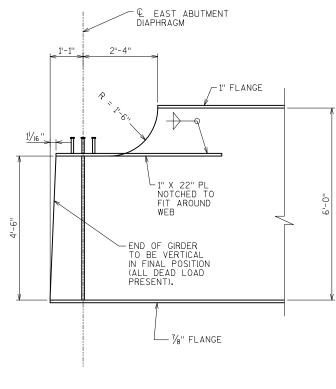
PLAN OF DRAIN HOLES

8

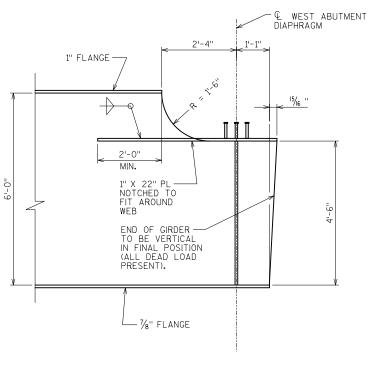
MAXIMUM MESH OPENING SIZE: 3/8" X 3/8"

MINIMUM WIRE GAUGE: 18 AWG (0.04")

1133-03-83



SPAN 1 EAST ABUTMENT



SPAN 2 WEST ABUTMENT

NOTES:

GIRDER FLANGES ARE NOT HORIZONTAL, BUT PARALLEL TO VERTICAL CURVE. DIAPHRAGMS ARE PERPENDICULAR TO GIRDERS FLANGES. ONLY ENDS OF GIRDER WEBS ARE VERTICAL.

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-5-661

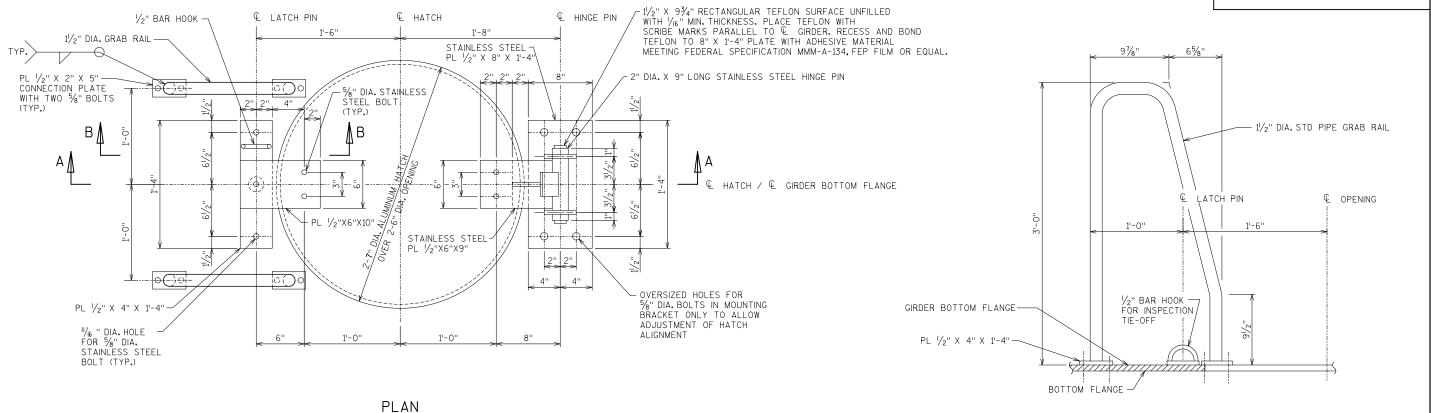
DRAWN JRS CKD. MAD

MISCELLANEOUS GIRDER DETAILS
SHEET 2

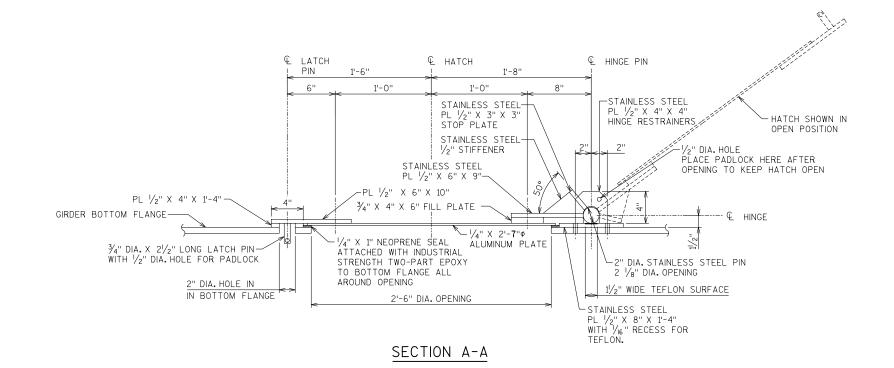
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1133-03-83



SECTION B-B



NOTES:

90% PLANS STEEL FABRICATION CONTRACT ONLY

ALL BOLTS SHOWN ARE 5/8" DIAMETER STAINLESS STEEL.

TWO ACCESS HATCHES REQUIRED. SEE GIRDER PLAN AND ELEVATION SHEETS FOR HATCH LOCATIONS.

STEEL FOR HATCH IS A709 GRADE 50 UNLESS OTHERWISE NOTED.

ALL MATERIALS SHOWN WILL BE PAID FOR AT THE UNIT PRICE BID FOR "FABRICATED STRUCTURAL STEEL HS".

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-661

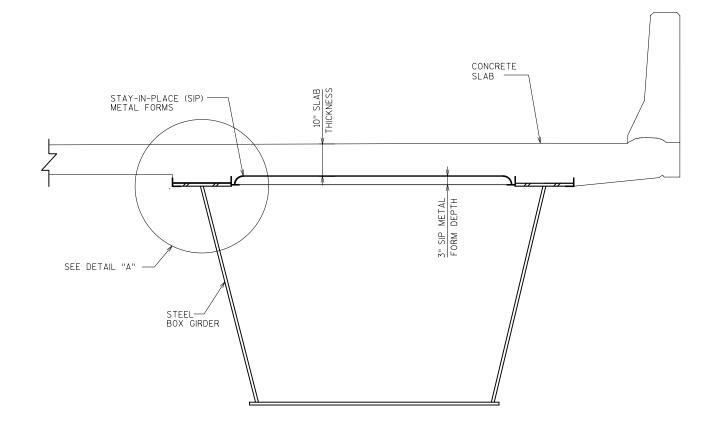
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BY

ACCESS HATCH
DETAILS

SHEET 22 OF 26

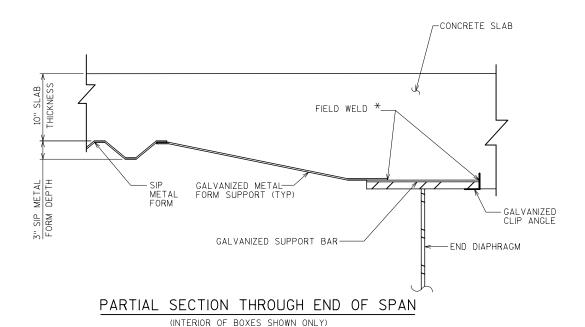
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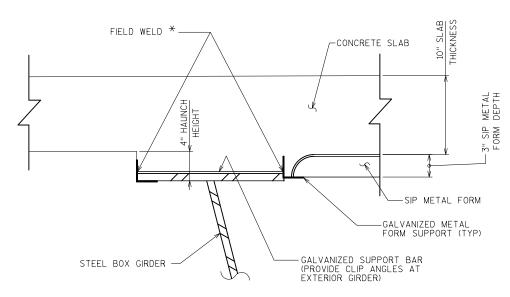
1133-03-83



PARTIAL SECTION THROUGH SUPERSTRUCTURE

(SHOWING TYPICAL DETAILS AND NOTES FOR SIP METAL FORMS)





DETAIL "A"

DO NOT WELD TO NOR PERMIT WELD SPATTER ON SUPPORTING STEEL GIRDER, DIAPHRAGMS, BRACING ETC. ELECTRICAL GROUNDING TO STRUCTURAL STEEL IS PROHIBITED. SEE SPECIFICATIONS FOR FIELD WELDING OF SIP FORMS IN PLACE AND PAINTING OF THE TOP FLANGE.

NOTES:

STAY-IN-PLACE (SIP) FORM DETAILS ARE SHOWN FOR REFERENCE ONLY. SIP FORMS, GALVANIZED SUPPORT BARS, FORM SUPPORTS, AND CLIP ANGLES ARE NOT FURNISHED AS PART OF THIS CONTRACT.

NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-5-661 PLANS CK'D. MDR SUPERSTRUCTURE

90% PLANS STEEL FABRICATION CONTRACT ONLY

DETAILS

SHEET 23 OF 26

8

LEGEND:

€ BRG.

MEASURED ALONG

INTERMEDIATE ELEVATION POINT AT PANEL POINTS.

IN THIS EXAMPLE, '1' IS THE FIELD SECTION NUMBER AND '2' IS THE PANEL NUMBER WITHIN THIS FIELD SECTION.

TABULATED ELEVATIONS

FINISHED ELEVATION AT TOP OF

FG FINISHED ELEVATION AT TOP OF DECK SLAB.

TOP OF ERECTED STEEL TES = ZW + PL - SW

TOP OF ERECTED WEB ELEVATION NEGLECTING ALL DEFLECTIONS = FG + SW + DL1 + DL2 - DK ΖW

ELEVATION OF CHORD LINES JOINING TOP OF WEB ELEVATION 'ZW'AT FIELD SPLICES AND END SUPPORTS.

BLOCKING HEIGHT CORRESPONDING TO THE ERECTED STEEL CONDITION NEGLECTING ALL DEFLECTIONS.

TABULATED DEFLECTIONS

SELF -WEIGHT OF STEEL GIRDERS, INCLUDING ALL DIAPHRAGMS, STIFFENERS, BRACING, AND PERMANENT METAL FORMS.

CONCRETE DECK SLAB AND HAUNCHES APPLIED TO BARE STEEL SECTION.

PARAPETS AND WEARING SURFACE APPLIED TO COMPOSITE SECTION.

CALCULATED VALUES

=THICKNESS OF TOP FLANGE PLUS ANY FILLER AND SPLICE PLATES

=DECK ASSEMBLY THICKNESS FROM TOP OF WEB TO FINISHED GRADE

=CAMBER= ZW - CW

NOTES:

POSITIVE DEFLECTIONS ARE DOWNWARD.

POSITIVE CAMBER IS UPWARD RELATIVE TO A CHORD LINE JOINING THE FIELD SECTION ENDPOINTS.

TES ELEVATIONS ARE TO TOP OF STEEL (SPLICE AND COVER PLATE THICKNESS, IF APPLICABLE, ARE ACCOUNTED FOR) AND THEY ARE FOR THE MATERIAL AS ERECTED. THE
ELEVATION OF THE TOP STEEL AT THE
FIELD SPLICE POINTS SHALL BE CHECKED,
AND CORRECTED, IF POSSIBLE, AFTER
ERECTION AND BEFORE PERMANENTLY
BOLTING THE DIAPHRAGMS IN PLACE.

BECAUSE VERTICAL PROFILE AND DEFLECTIONS ARE EXAGGERATED TO DIFFERENT DEGREES, THE CAMBERS SHOWN ON THIS DIAGRAM ARE SCHEMATIC ONLY.

SPECIFICALLY COMPARING RELATIVE CAMBER MAGNITUDES BETWEEN FIELD SECTIONS MAY BE MISLEADING.

CAMBERS ACCOUNT FOR PERMANENT FORMWORK WEIGHT OF 10.0 PSF INSIDE EACH GIRDER PLUS 13.5 PSF FOR ADDITIONAL CONCRETE IN RIBS OF PERMANENT FORMWORK, THE CONTRACTOR MAY NEED TO REVISE THE CAMBERS IF THE PERMANENT FORMWORK IS USED DIFFERS FROM THAT SHOWN ON THE PLANS.

ALL TABULATED VALUES ARE IN DECIMALS OF A FOOT.

TOP OF ERECTED STEEL ELEVATIONS AT SUPPORTS AND FIELD SPLICES SHALL BE AFTER ERECTION IS COMPLETE AND BEFORE BOLTED CONNECTIONS ARE FINALLY TORQUED.

IF SURVEYED ELEVATIONS DIFFER FROM THOSE EXPECTED BY MORE THAN 0.02 FT (1/4") AT SUPPORTS OR 0.083 FT (1") AT FIELD SPLICES, CORRECTIVE MEASURES SHALL BE TAKEN BEFORE FURTHER CONSTRUCTION OPERATIONS

CAMBER DIAGRAMS HAVE BEEN DEVELOPED ASSUMING A CONSTANT 4" HAUNCH HEIGHT. MEASURED FROM THE UNDERSIDE OF THE TOP FLANGE (TOP OF WEB) TO THE UNDERSIDE OF THE DECK (TOP OF STAY-IN-PLACE METAL FORMS).

HAUNCH NOTE:

† =HAUNCH HEIGHT AT CENTERLINE OF GIRDER.

TO DETERMINE "†" AFTER ALL STRUCURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES, TOP OF SPLICE PLATES OR TOP OF COVER PLATES, WHICHEVER APPLIES, SHALL BE TAKEN.

TOP OF DECK ELEV. AT FINAL GRADE

- TOP OF STEEL ELEV. AFTER PLACEMENT
- CONC. ONLY DEFLECTIONS (DOWNWARD DEFLECTION IS POSITIVE.
- SLAB THICKNESS (10")
- = "T" VALUE FOR SETTING HAUNCH

FTW OR ZW-

€ BRG. E. ABUT.

P1+1

© PIER 1

F.S. #2

ZW

4P2-6 P2-9

C = CAMBER

FTW = FG - DK

FIELD SECTION 3

P3-6 P3-7

P3-1

187'-0"

SPAN 2

F.S. #1

SW + DL1 + DL2

FIELD SECTION 1

187'-0"

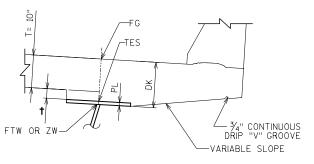
SPAN 1

CW

P2-1 P2-4

P2-5

FIELD SECTION 2



8

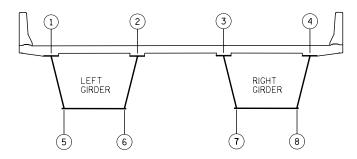
NO. DATE BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION STRUCTURE B-5-661 PLANS CK'D. MAD SHEET 24 OF 26 CAMBER DIAGRAM

FIELD SECTION 1

LIODIZ		POSIT	ION AND STA	TION					
HORIZ.	VALUE	E. ABUT.	P1- 2	P1- 3	P1- 4	P1- 5	P1- 6	P1- 7	FS #1
LUC.		1096+24.47	1096+41.47	1096+58.47	1096+75.47	1096+92.47	1097+09.47	1097+26.47	1097+34.97
CAMI	BER DAT	A							
1	FG	635.30	635.59	635.87	636.14	636.40	636.65	636.88	637.00
	TES	634.21	634.64	635.04	635.39	635.69	635,94	636.13	636.27
LEFT	ZW	634.13	634.60	635.04	635.42	635.73	635.98	636.16	636.23
GIRDER	CW	634.13	634.45	634.78	635.10	635.42	635.75	636.07	636.23
	SW	0.00	0.04	0.08	0.11	0.12	0.12	0.11	0.10
LEFT	DL1	0.00	0.12	0.23	0.31	0.34	0.34	0.30	0.27
WEB	DL2	0.00	0.01	0.02	0.03	0.04	0.04	0.03	0.03
	С	0.00	0.15	0.26	0.32	0.31	0.23	0.09	0.00
2	FG	634.73	635.02	635.30	635.57	635.83	636.08	636.31	636.43
	TES	633,64	634.07	634,46	634.82	635.11	635.36	635.55	635,69
LEFT	ZW	633.56	634.03	634.46	634.84	635.15	635.40	635.58	635,65
GIRDER	CW	633,56	633.88	634.20	634.53	634.85	635.17	635.49	635.65
	SW	0.00	0.04	0.08	0.11	0.12	0.12	0.11	0.10
RIGHT	DL1	0.00	0.12	0.22	0.30	0.33	0.33	0.29	0.27
WEB	DL2	0.00	0.01	0.02	0.03	0.04	0.04	0.03	0.03
	С	0.00	0.15	0.26	0.31	0.30	0.22	0.08	0.00
3	FG	634.16	634.45	634.73	635.00	635.26	635.51	635.74	635.86
	TES	633.07	633.49	633,89	634.24	634.54	634.78	634.98	635,11
RIGHT	ZW	632.99	633.45	633,88	634.26	634.57	634.81	635.00	635.07
GIRDER	CW	632.99	633.31	633.63	633.95	634.27	634.59	634.91	635.07
	SW	0.00	0.04	0.08	0.11	0.12	0.12	0.10	0.09
LEFT	DL1	0.00	0.12	0.22	0.29	0.33	0.32	0.28	0.25
WEB	DL2	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03
	С	0.00	0.14	0.25	0.31	0.30	0.23	0.09	0.00
4	FG	633.59	633.88	634.16	634.43	634.69	634.94	635.17	635.29
	TES	632.50	632.92	633.31	633.66	633.96	634.20	634.40	634.53
RIGHT	ZW	632.42	632.88	633.31	633.68	633.99	634.23	634.42	634.49
GIRDER	CW	632.42	632.74	633.06	633.37	633.69	634.01	634.33	634.49
	SW	0.00	0.04	0.08	0.10	0.12	0.11	0.10	0.09
RIGHT	DL1	0.00	0.11	0.21	0.28	0.32	0.31	0.28	0.25
WEB	DL2	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03
	С	0.00	0.14	0.25	0.31	0.30	0.22	0.09	0.00
BLO	OCKING H	EIGHTS							
5	BLK	1.53							3.64
6	1	1.14							3.24
7		0.39							2.47
8		0.00							2.07

FIELD SECTION 2

HODIZ		POSIT	ION AND STA	TION								
HORIZ.	VALUE	FS #1	P2-1	P2-2	P2-3	P2-4	Pier 1	P2-6	P2-7	P2-8	P2-9	FS #2
LUC.		1097+34.97	1097+43.47	1097+60.47	1097+77.47	1097+94.47	1098+11.47	1098+28.47	1098+45.47	1098+62.47	1098+79.47	1098+87.97
CAME	BER DATA	4										
1	FG	637.00	637.11	637.32	637.53	637.72	637.90	638.07	638.23	638.37	638.51	638.57
	TES	636.27	636.29	636.42	636.54	636.77	636.92	637.12	637,24	637.47	637.69	637.84
LEFT	ZW	636.23	636.28	636.38	636.47	636.59	636.74	636.94	637.17	637.43	637.69	637.80
GIRDER	CW	636.23	636.32	636.50	636.67	636.84	637.02	637.19	637.37	637.54	637.71	637.80
	SW	0.10	0.09	0.06	0.03	0.01	0.00	0.01	0.03	0.06	0.08	0.10
LEFT WEB	DL1	0.27	0.23	0.15	0.08	0.02	0.00	0.02	0.08	0.15	0.23	0.27
LELI MED	DL2	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.03	0.03
	C	0.00	-0.04	-0.11	-0.20	-0.26	-0.28	-0.25	-0.19	-0.11	-0.03	0.00
2	FG	636.43	636.54	636.75	636.96	637.15	637.33	637.50	637.66	637.80	637.94	638.00
	TES	635.69	635.72	635.85	635.97	636.19	636.35	636.55	636.67	636.90	637.12	637.26
LEFT	ZW	635.65	635.71	635.81	635.90	636.02	636.17	636.37	636.60	636.86	637.11	637.22
GIRDER	CW	635.65	635.74	635,92	636.09	636.26	636.44	636.61	636.79	636.96	637.13	637,22
	SW	0.10	0.08	0.06	0.03	0.01	0.00	0.01	0.03	0.05	0.08	0.09
RIGHT	DL1	0.27	0.23	0.15	0.07	0.02	0.00	0.02	0.08	0.15	0.23	0.26
WEB [DL2	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.03	0.03
	C	0.00	-0.04	-0.11	-0.19	-0.25	-0.27	-0.25	-0.18	-0.10	-0.03	0.00
3	FG	635.86	635.97	636.18	636.39	636.58	636.76	636.93	637.09	637.23	637.37	637.43
	TES	635.11	635.14	635,27	635.40	635.62	635.78	635.97	636.10	636.32	636.54	636.69
RIGHT [ZW	635.07	635.13	635,23	635.33	635.45	635.59	635.80	636.03	636.28	636.53	636.65
GIRDER	CW	635.07	635.16	635.33	635.51	635.68	635.86	636.03	636.21	636.38	636.56	636.65
	SW	0.09	0.08	0.05	0.03	0.01	0.00	0.01	0.03	0.05	0.08	0.09
LEFT WEB	DL1	0.25	0.22	0.15	0.07	0.02	0.00	0.02	0.07	0.15	0.22	0.26
	DL2	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	0.03
	U	0.00	-0.03	-0.10	-0.18	-0.24	-0.27	-0.24	-0.18	-0.10	-0.03	0.00
4	FG	635.29	635.40	635.61	635.82	636.01	636.19	636.36	636.52	636.66	636.80	636.86
	TES	634.53	634.56	634.70	634.82	635.05	635.21	635.40	635.52	635.75	635.97	636.11
RIGHT	ZW	634.49	634.55	634.66	634.76	634.87	635.02	635.23	635.46	635.71	635.95	636.07
GIRDER	CW	634.49	634.58	634.75	634.93	635.10	635.28	635.45	635.63	635.80	635.98	636.07
	SW	0.09	0.08	0.05	0.03	0.01	0.00	0.01	0.03	0.05	0.08	0.09
RIGHT	DL1	0.25	0.21	0.14	0.07	0.02	0.00	0.02	0.07	0.14	0.22	0.25
WEB [DL2	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	0.03
	С	0.00	-0.03	-0.09	-0.17	-0.23	-0.26	-0.23	-0.17	-0.10	-0.03	0.00
BLO	CKING HE	EIGHTS										
5	BLK	3.64					4.14					5.20
6		3.24					3.75					4.80
7		2.47					2.99					4.05
8		2.07					2.60					3.65



HORIZONTAL LOCATION KEY

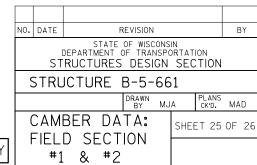
LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM

NOTES:

FOR NOTES SEE CAMBER DIAGRAM

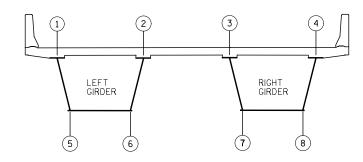


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FIELD SECTION 3

Loc.	BER DA FG TES		P3-1 1098+96,47	P3-2 1099+13 . 47	P3-3	P3-4	P3-5	P3-6	W. ABUT						
CAME 1	BER DA FG TES	ТА	1098+96.47	1000+13 47											
1	FG TES			1033713.41	1099+30.47	1099+47.47	1099+64.47	1099+81.47	1099+98.47						
	TES	CAMBER DATA 1													
LEFT		638.57	638.64	638.75	638.85	638.94	639.02	639.09	639.15						
LEET		637.84	637.87	638.04	638,15	638,21	638,22	638,18	638,07						
	ZW	637.80	637.90	638.07	638.19	638,24	638.23	638,16	637.98						
GIRDER	CW	637.80	637.81	637.84	637.87	637,90	637,93	637.96	637.98						
	SW	0.10	0.11	0.12	0.12	0.11	0.09	0.06	0.00						
LEFT	DL1	0.27	0.29	0.33	0.34	0.32	0,25	0.16	0.00						
WEB	DL2	0.03	0.03	0.04	0.04	0.03	0.03	0.02	0.00						
	С	0.00	0.08	0.23	0.32	0.34	0.30	0.20	0.00						
2	FG	638.00	638.07	638.18	638.28	638.37	638.45	638.52	638.58						
	TES	637.26	637.30	637.46	637.57	637.63	637.64	637.61	637.41						
LEFT	ZW	637.22	637.31	637.49	637.61	637.66	637.65	637.58	637.41						
GIRDER	CW	637.22	637.24	637.27	637.29	637.32	637.35	637.38	637.41						
	SW	0.09	0.10	0.12	0.12	0.11	0.09	0.06	0.00						
RIGHT	DL1	0.26	0.28	0.33	0.34	0.31	0.25	0.15	0.00						
WEB	DL2	0.03	0.03	0.04	0.04	0.03	0.03	0.02	0.00						
	С	0.00	0.08	0.23	0.31	0.34	0.30	0.20	0.00						
3	FG	637.43	637.50	637.61	637.71	637.80	637.88	637.95	638.01						
	TES	636.69	636.73	636.88	636.99	637.04	637.04	637.00	636.84						
RIGHT	ZW	636.65	636.75	636.92	637.02	637.06	637.04	636.96	636.84						
GIRDER	CW	636.65	636.66	636.69	636.72	636.75	636.78	636.81	636.84						
	SW	0.09	0.10	0.12	0.12	0.10	0.08	0.04	0.00						
LEFT	DL1	0.26	0.29	0.32	0.33	0.29	0.22	0.12	0.00						
WEB	DL2	0.03	0.03	0.03	0.03	0.03	0.02	0.01	0.00						
	С	0.00	0.09	0.22	0.30	0.31	0.25	0.14	0.00						
4	FG	636.86	636.93	637.04	637.14	637.23	637.31	637.38	637.44						
	TES	636.12	636.15	636.30	636.41	636.46	636.47	636.43	636.27						
RIGHT	ZW	636.08	636.17	636.33	636.44	636.48	636.46	636.38	636.27						
GIRDER	CW	636.08	636.09	636.12	636.15	636.18	636.21	636.24	636.27						
	SW	0.09	0.10	0.11	0.11	0.10	0.08	0.04	0.00						
RIGHT	DL1	0.26	0.28	0.31	0.32	0.28	0.21	0.11	0.00						
WEB	DL2	0.03	0.03	0.03	0.03	0.03	0.02	0.01	0.00						
	С	0.00	0.08	0.21	0.29	0.30	0.25	0.14	0.00						
BLC	CKING	HEIGHTS													
5	BLK	5.20							5.38						
6	[4.80							4.99						
7	[4.05							4.24						
8		3.65							3.84						



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM

NOTES:

FOR NOTES SEE CAMBER DIAGRAM

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-5-661

DRAWN MJA PLANS CKYD. MAD

CAMBER DATA: SHEET 26 OF 26

FIELD SECTION #3

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90% PLANS STEEL FABRICATION CONTRACT ONLY | FIELD SECTION #3