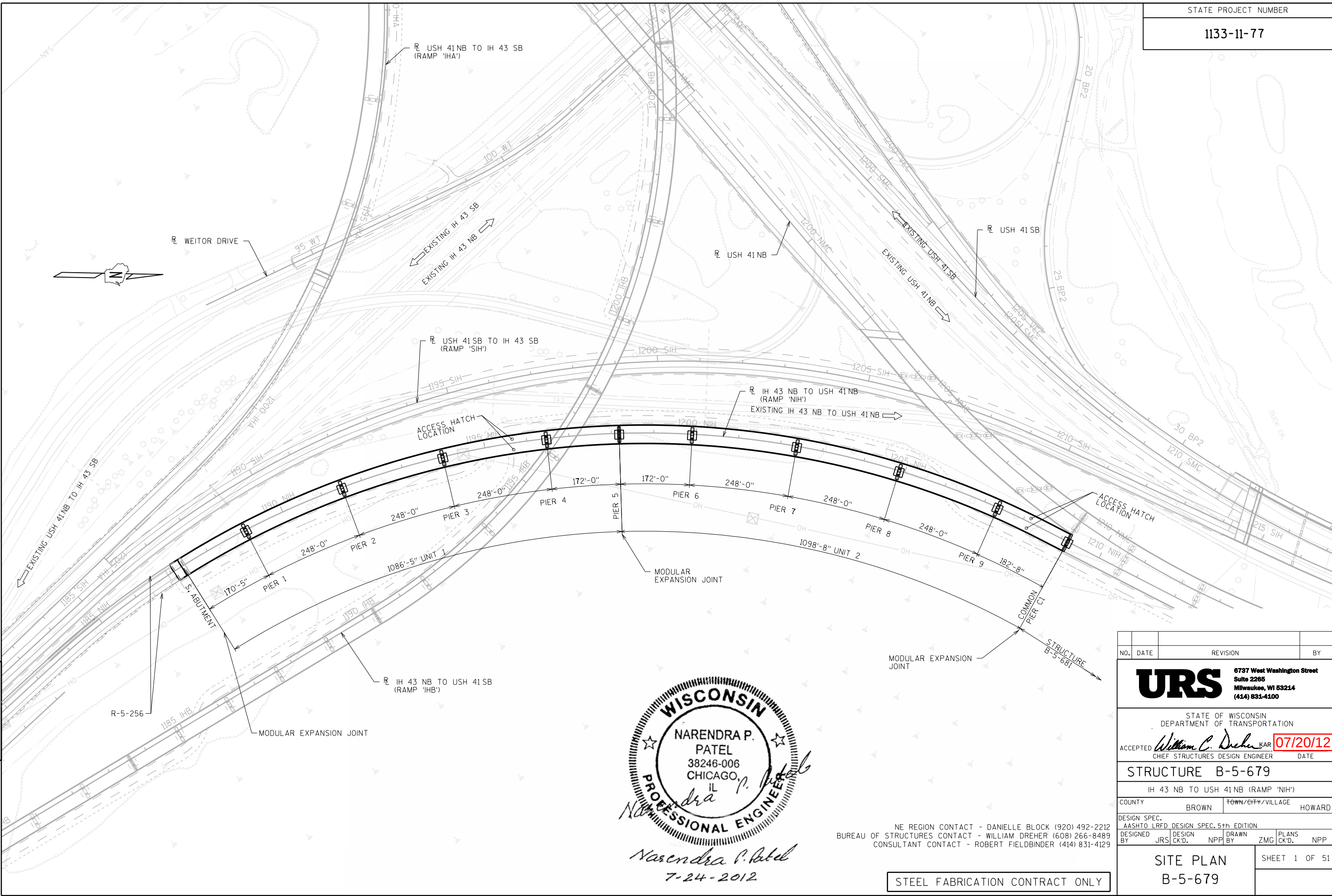


8



WISCONSIN
NARENDRA P. PATEL
38246-006
CHICAGO, IL
PROFESSIONAL ENGINEER
Narendra P. Patel
7-24-2012

NE REGION CONTACT - DANIELLE BLOCK (920) 492-2212
BUREAU OF STRUCTURES CONTACT - WILLIAM DREHER (608) 266-8489
CONSULTANT CONTACT - ROBERT FIELDBINDER (414) 831-4129

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
URS 6737 West Washington Street Suite 2285 Milwaukee, WI 53214 (414) 831-4100			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED	William C. Dreher, KAR		07/20/12
CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-5-679			
IH 43 NB TO USH 41 NB (RAMP 'NIH')			
COUNTY	BROWN	TOWN/CITY/VILLAGE	HOWARD
DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION			
DESIGNED BY	JRS	DESIGN CK'D.	NPP
DRAWN BY	ZMG	PLANS CK'D.	NPP
SITE PLAN B-5-679			SHEET 1 OF 51

LIST OF DRAWINGS

- SITE PLAN B-5-679
- DRAWING LIST, GENERAL NOTES, AND QUANTITIES
- GENERAL PLAN AND ELEVATION - SPANS 1-3
- GENERAL PLAN AND ELEVATION - SPANS 4-6
- GENERAL PLAN AND ELEVATION - SPANS 7-8
- GENERAL PLAN AND ELEVATION - SPANS 9-10
- CROSS SECTION AT PIER
- TYPICAL BOX GIRDER CROSS SECTION
- ALIGNMENT AND SUPERELEVATION
- BEARING LAYOUT UNIT 1
- BEARING LAYOUT UNIT 2
- BEARING DETAILS
- JACKING PROVISIONS
- FRAMING PLAN UNIT 1 SPANS 1 TO 5
- FRAMING PLAN UNIT 2 SPANS 6 TO 10
- GIRDER PLAN AND ELEVATION UNIT 1 SPAN 1
- GIRDER PLAN AND ELEVATION UNIT 1 SPAN 2
- GIRDER PLAN AND ELEVATION UNIT 1 SPAN 3
- GIRDER PLAN AND ELEVATION UNIT 1 SPAN 4
- GIRDER PLAN AND ELEVATION UNIT 1 SPAN 5
- GIRDER PLAN AND ELEVATION UNIT 2 SPAN 6
- GIRDER PLAN AND ELEVATION UNIT 2 SPAN 7
- GIRDER PLAN AND ELEVATION UNIT 2 SPAN 8
- GIRDER PLAN AND ELEVATION UNIT 2 SPAN 9
- GIRDER PLAN AND ELEVATION UNIT 2 SPAN 10
- INTERMEDIATE PIER DIAPHRAGMS XD1 AND D1
- UNIT END DIAPHRAGMS XD2, XD3, D2, AND D3
- INTERMEDIATE DIAPHRAGMS XD4 AND D4
- MISCELLANEOUS DIAPHRAGM DETAILS
- EXTERIOR CROSS FRAME DETAILS
- INTERIOR CROSS FRAME K1 DETAILS
- FIELD SPLICE DETAILS
- BRACING CONNECTION DETAILS SHEET 1
- BRACING CONNECTION DETAILS SHEET 2
- MISCELLANEOUS GIRDER DETAILS SHEET 1
- MISCELLANEOUS GIRDER DETAILS SHEET 2
- MISCELLANEOUS GIRDER DETAILS SHEET 3
- ACCESS HATCH DETAILS
- ACCESS DOOR DETAILS
- SUPERSTRUCTURE DETAILS
- CAMBER DIAGRAM UNIT 1
- CAMBER DIAGRAM UNIT 2
- CAMBER DATA FIELD SECTION 1 AND 2
- CAMBER DATA FIELD SECTION 3 AND 4
- CAMBER DATA FIELD SECTION 5 AND 6
- CAMBER DATA FIELD SECTION 7 AND 8
- CAMBER DATA FIELD SECTION 9 AND 10
- CAMBER DATA FIELD SECTION 11 AND 12
- CAMBER DATA FIELD SECTION 13 AND 14
- CAMBER DATA FIELD SECTION 15 AND 16
- CAMBER DATA FIELD SECTION 17 AND 18

GENERAL NOTES

DO NOT SCALE THE DRAWINGS.

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

ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (1991).

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.

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

STRUCTURAL STEEL

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 A709 (AASHTO M270) GRADE HPS 50W (FY=50 KSI). 2-WAY BEVELED JACKING PADS SHALL BE A709-50W (FCM). 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 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 FOR HPS 50WF/HPS 345WF OF TABLE 10 OF ASTM 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 CONFORM TO THE REQUIREMENTS FOR ZONE 2.

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

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 50W 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.

THE COMPRESSIVE STRENGTH OF THE BEARING PEDESTAL AND PIER CONCRETE IS 4000 PSI.

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"
1 1/2" < T <= 2 1/4"	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 5/16" OR LARGER THE MINIMUM PASS SIZE SHALL BE 5/16".

STATE PROJECT NUMBER

1133-11-77

DESIGN CRITERIA

DESIGN IS IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION WITH 2010 INTERIM REVISIONS, AND THE WISDOT BRIDGE MANUAL.

ALL DETAILS, MATERIALS, AND FABRICATION SHALL CONFORM TO THE THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. USE THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS AT THE TIME OF CONSTRUCTION.

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

DESIGN LIVE LOAD

DESIGN LOADING: HL-93

INVENTORY RATING FACTOR: RF = 1.28

OPERATING RATING FACTOR: RF = 1.66

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

OTHER DESIGN LOADS

PROFILE GRADE LINE AND TOP OF DECK ELEVATIONS ARE TO THE TOP OF THE 10" DECK THICKNESS. THE 10" DECK THICKNESS INCLUDES A 1/2" INTEGRAL WEARING SURFACE, BUT DOES NOT INCLUDE AN ADDITIONAL EPOXY OVERLAY THAT WILL BE PROVIDED AFTER POURING OF THE DECK. THE STRUCTURE IS DESIGNED FOR THE WEIGHT OF THE 10" THICKNESS OF CONCRETE PLUS 3/8" THICKNESS OF EPOXY OVERLAY. UNIT WEIGHTS ASSUMED FOR DESIGN WERE 150 PCF FOR CONCRETE AND 3 PSF FOR 3/8" EPOXY OVERLAY.

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

BEARING MOVEMENT RANGE IS BASED ON BEARING CENTERED AT 60°F AND ACCOMMODATING 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 RIBS OF THESE FORMS.

DESIGN ASSUMED 7.5 PSF FOR TEMPORARY FORMWORK IN ADDITION TO STAY-IN-PLACE FORMS.

PARAPETS WERE ASSUMED TO WEIGH 563 PLF AND 464 PLF FOR "42SS" AND "32SS" SECTIONS RESPECTIVELY.

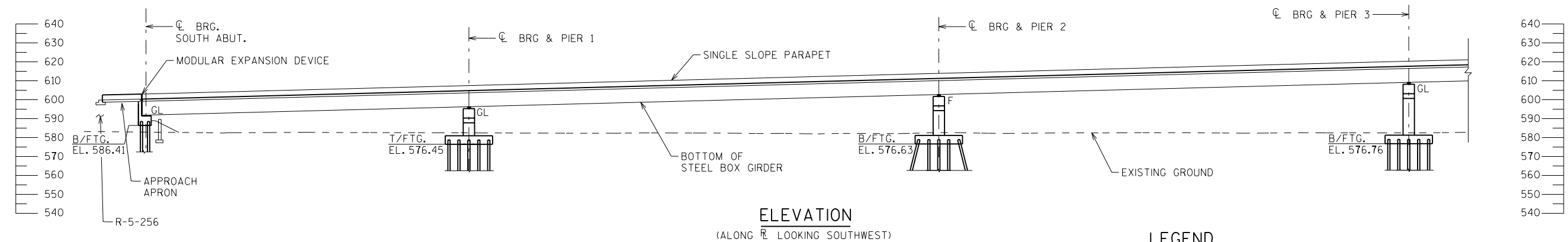
ALL OTHER LOADS IN ACCORDANCE WITH AASHTO.



STEEL FABRICATION CONTRACT ONLY

TOTAL ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	UNIT 1 QUANTITY	UNIT 2 QUANTITY	TOTAL
SPV.0060.01	BEARING HIGH-LOAD MULTI-ROTATIONAL FIXED B-5-679	EACH	2	2	4
SPV.0060.02	BEARING HIGH-LOAD MULTI-ROTATIONAL UNI-DIRECTIONAL B-5-679	EACH	10	10	20
SPV.0085.01	FABRICATED STRUCTURAL STEEL HPS 50W B-5-679	LB	2,775,400	2,796,900	5,572,300
SPV.0085.02	FABRICATED STRUCTURAL STEEL HS B-5-679	LB	228,000	228,500	456,500
SPV.0105.01	PAINTING POLYSILOXANE SYSTEM B-5-679	LS	-	-	1



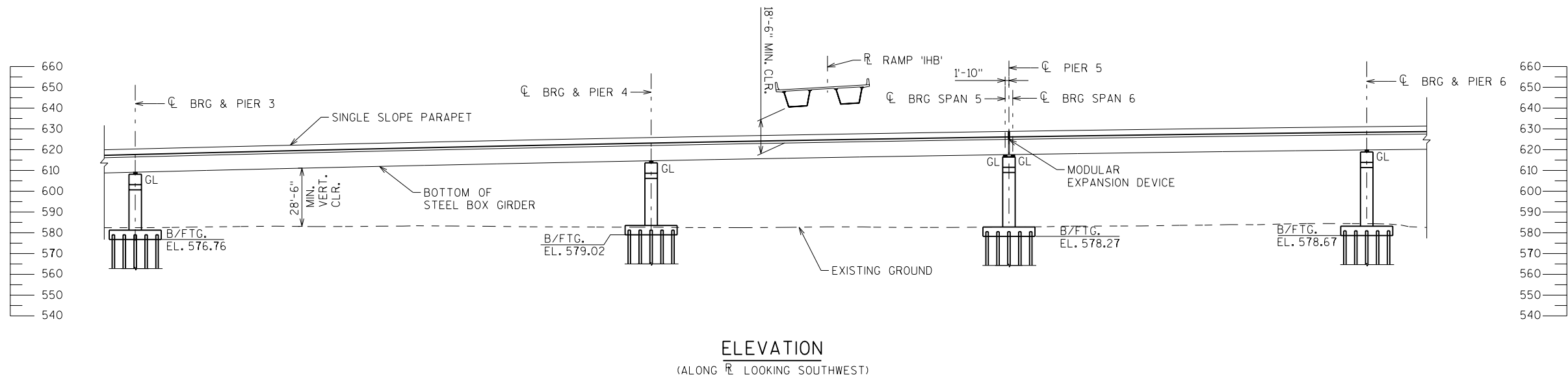
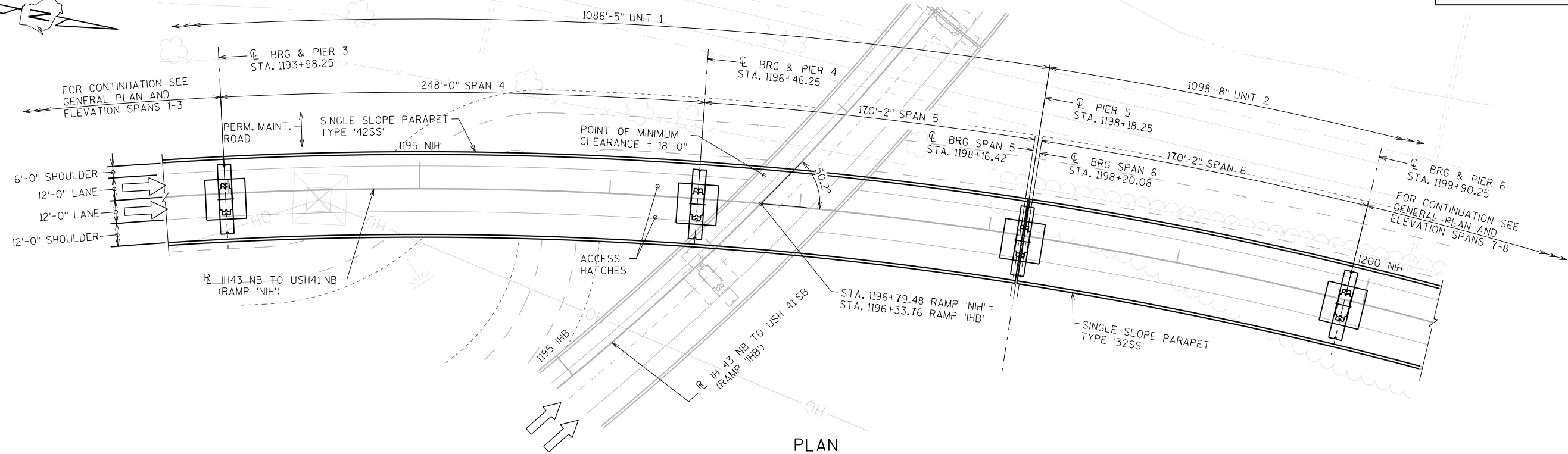
NO.	DESCRIPTION	ELEVATION
BM 778	RR SPIKE IN DECIDUOUS TREE	586.61

- $f'_c = 4,000$ P.S.I.
- $f'_c = 4,000$ P.S.I.
- $f_y = 60,000$ P.S.I.
- $f_y = 50,000$ P.S.I.

<u>RAMP NIH</u>	<u>RAMP IHB</u>
ADT (2015) = 8,600	ADT (2015) = 13,500
ADT (2035) = 10,200	ADT (2035) = 14,000
R.D.S. = 70 M.P.H.	R.D.S. = 60-70 M.P.H.

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
GENERAL PLAN AND ELEVATION SPANS 1-3		SHEET 3 OF 51	

**LEGEND**

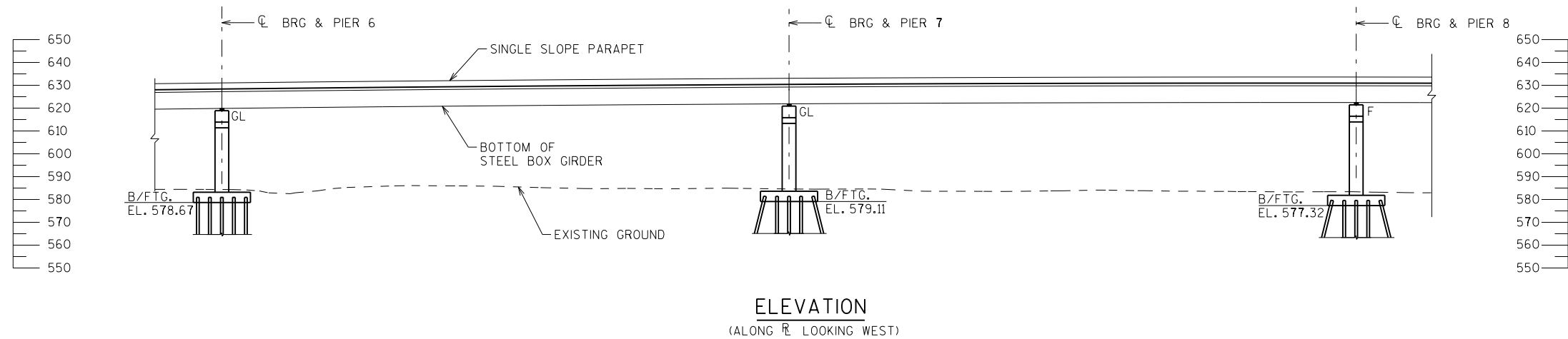
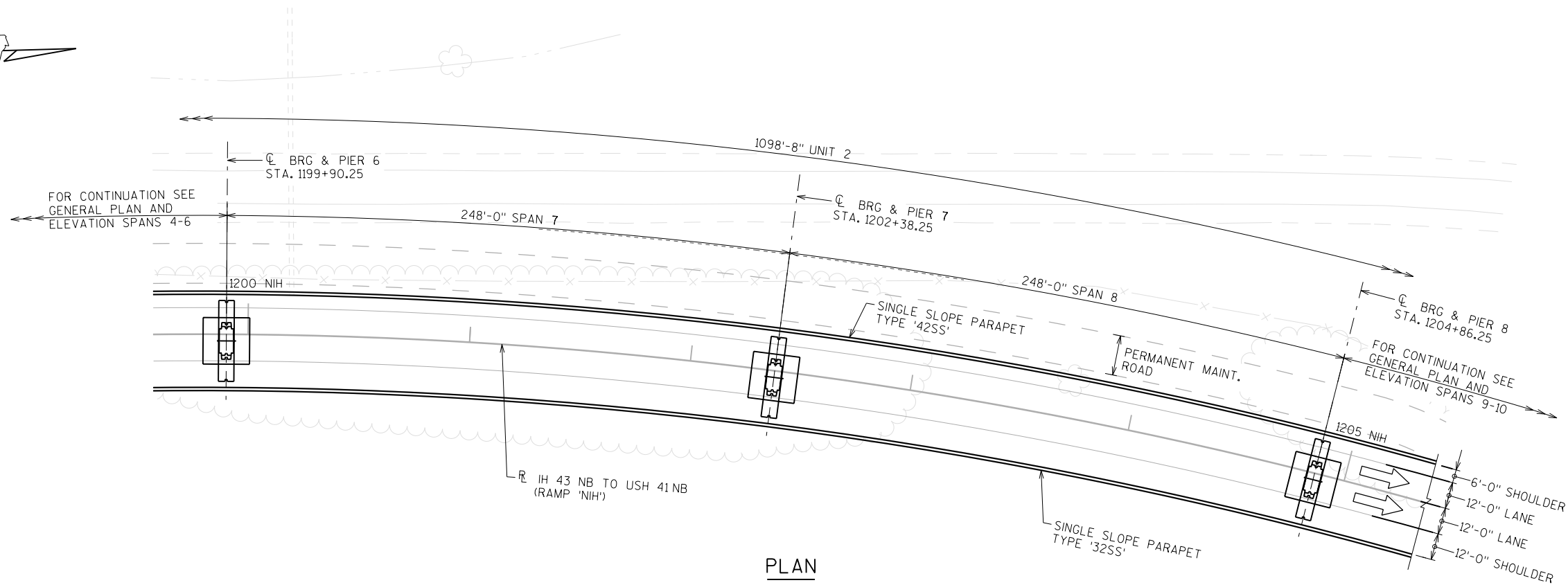
F - FIXED BEARING
GL - GUIDED LONGITUDINAL UNIDIRECTIONAL BEARING

NOTES:

FOR NOTES, SEE SHEET TITLED
"GENERAL PLAN & ELEVATION SPANS 1-3"

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
GENERAL PLAN AND ELEVATION SPANS 4-6		SHEET 4 OF 51	



NOTES:

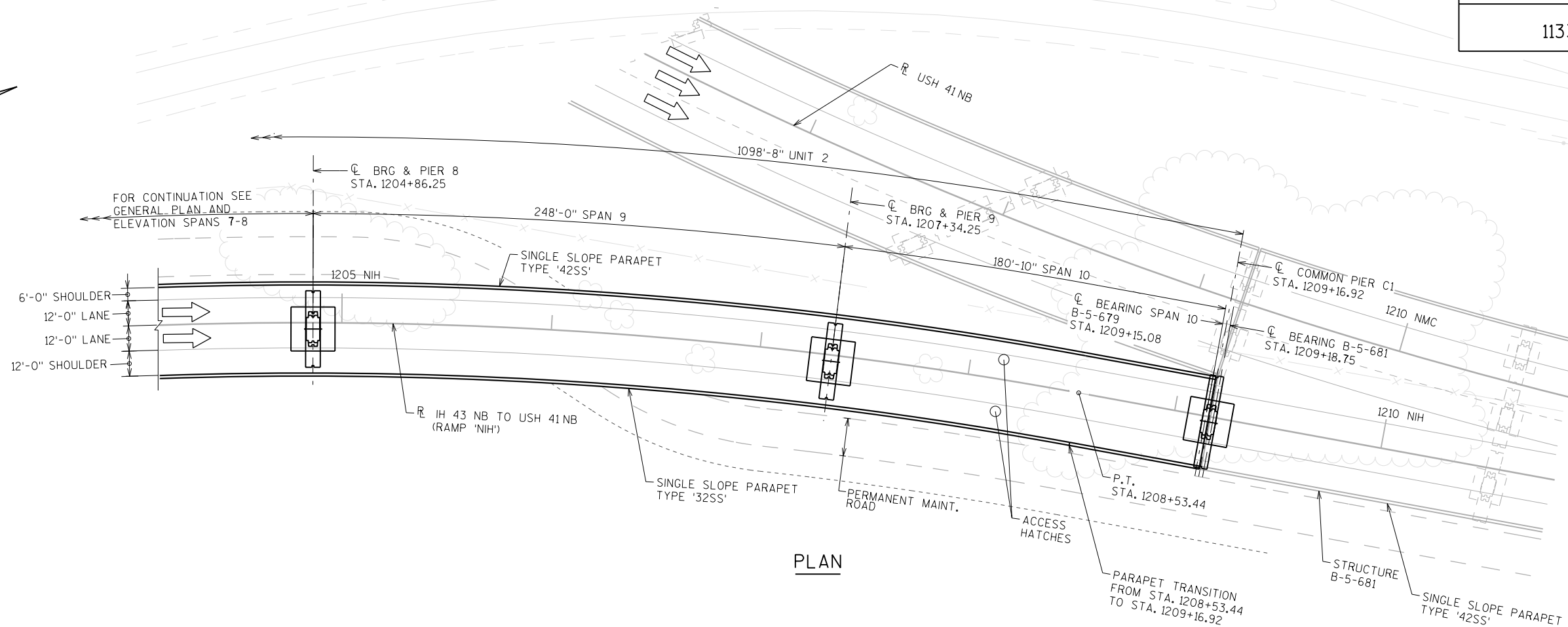
FOR NOTES, SEE SHEET TITLED
"GENERAL PLAN & ELEVATION SPANS 1-3"

LEGEND

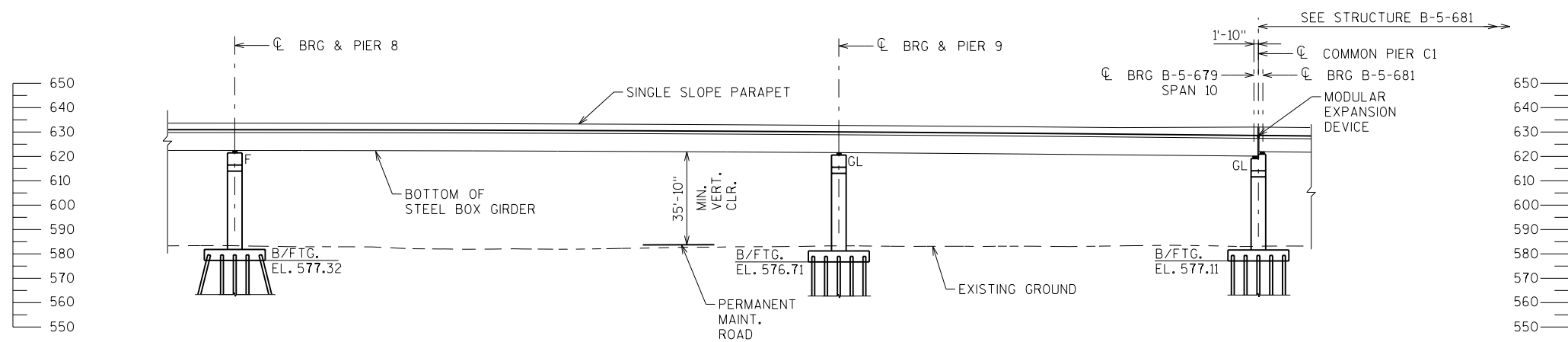
F- FIXED BEARING
GL - GUIDED LONGITUDINAL UNIDIRECTIONAL BEARING

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
GENERAL PLAN AND ELEVATION SPANS 7-8		SHEET 5 OF 51	



PLAN



ELEVATION

(ALONG R LOOKING WEST)

LEGEND

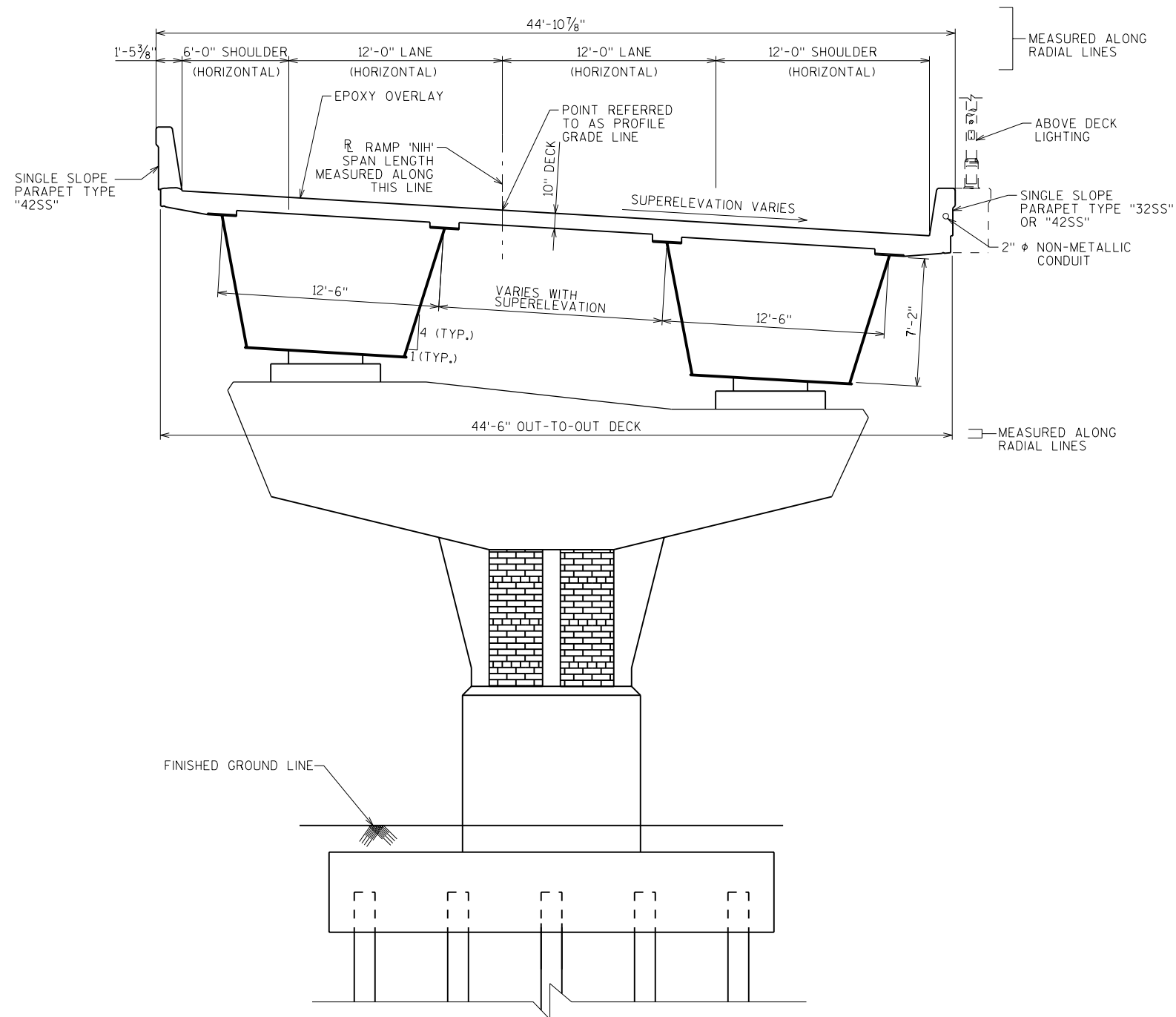
F - FIXED BEARING
GL - GUIDED LONGITUDINAL UNIDIRECTIONAL BEARING

NOTES:

FOR NOTES, SEE SHEET TITLED
"GENERAL PLAN & ELEVATION SPANS 1-3"

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
GENERAL PLAN AND ELEVATION SPANS 9-10			SHEET 6 OF 51

**TYPICAL CROSS SECTION**

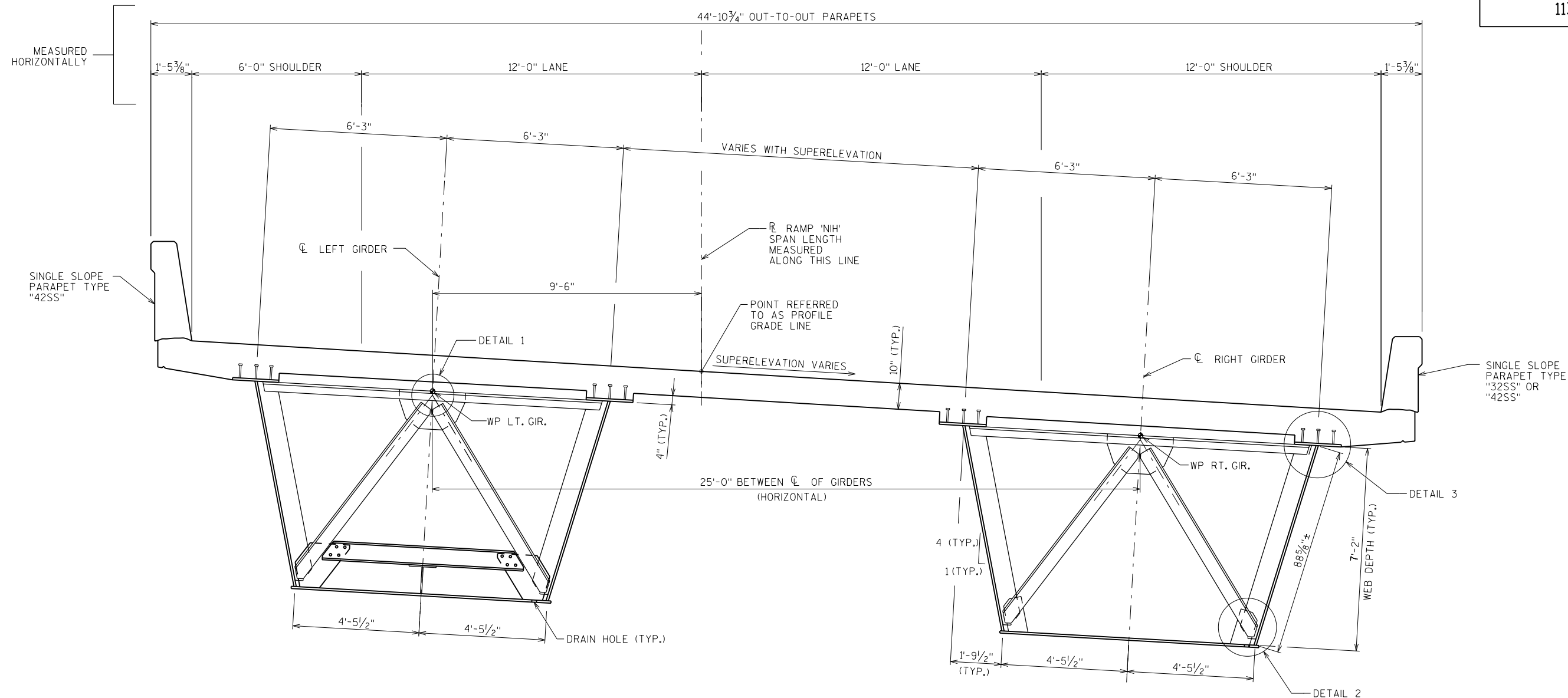
(LOOKING UPSTATION)

NOTES:

AESTHETIC DETAILS FOR PIERS, PARAPETS, WALLS, AND PAINTING SYSTEMS WILL FOLLOW THE CORRIDOR STANDARDS FOR FLYOVER STRUCTURES.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
CROSS SECTION AT PIER		SHEET 7 OF 51	

STEEL FABRICATION CONTRACT ONLY



(SHOWING CROSS FRAMES AT LOCATIONS WITH LONGITUDINAL STIFFENER)

(SHOWING CROSS FRAMES AT LOCATIONS WITHOUT LONGITUDINAL STIFFENER)

TYPICAL BOX GIRDER CROSS SECTION

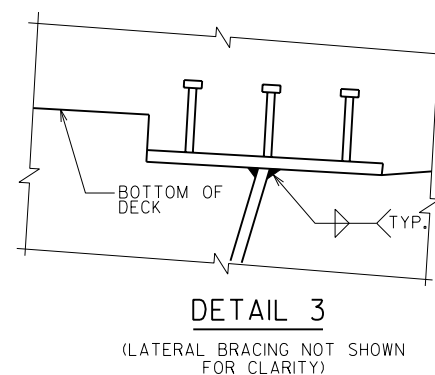
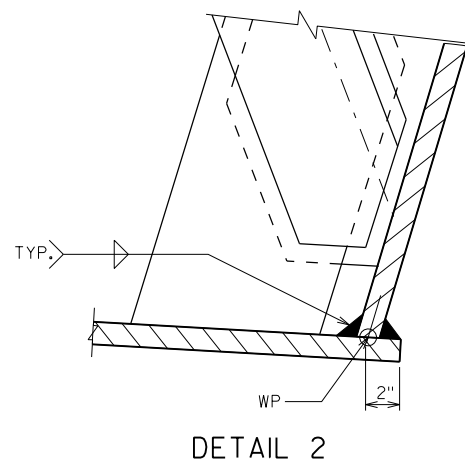
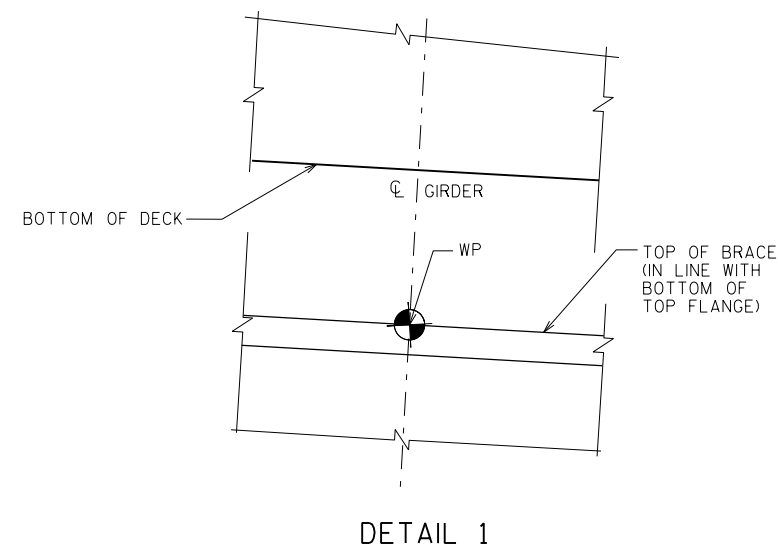
(LOOKING UPSTATION)

NOTES:

WP = WORK POINT TO WHICH DIMENSIONS ARE MEASURED.

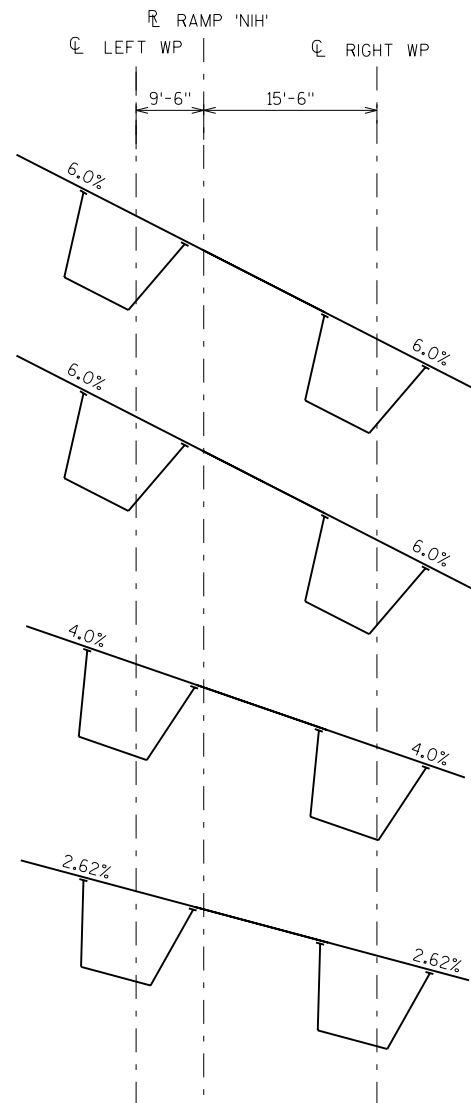
STAY-IN-PLACE METAL FORMS PERMITTED INSIDE BOX GIRDERS ONLY.

AESTHETIC DETAILS FOR PIERS, PARAPETS, WALLS, AND PAINTING SYSTEMS WILL FOLLOW THE CORRIDOR STANDARDS FOR FLYOVER STRUCTURES.



STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
TYPICAL BOX GIRDER CROSS SECTION		SHEET 8 OF 51	



CL BEARING SOUTH ABUTMENT
B-5-679
STA. 1187+31.83

END FULL
SUPERELEVATION
STA. 1207+63

P.T.
STA. 1208+53

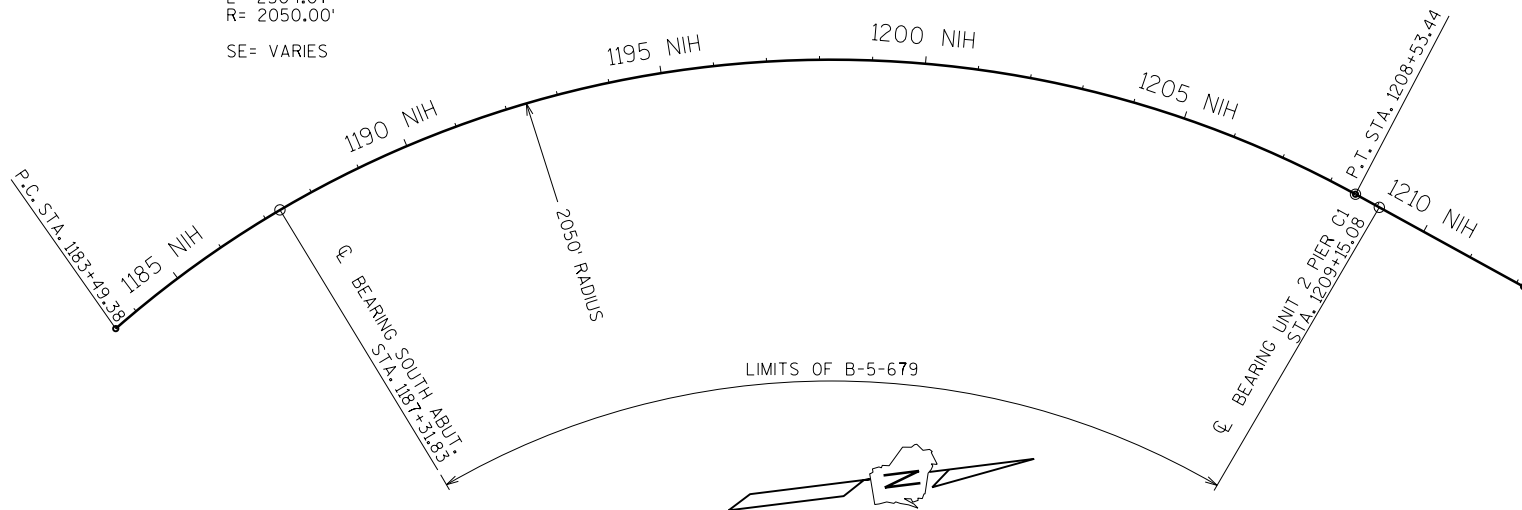
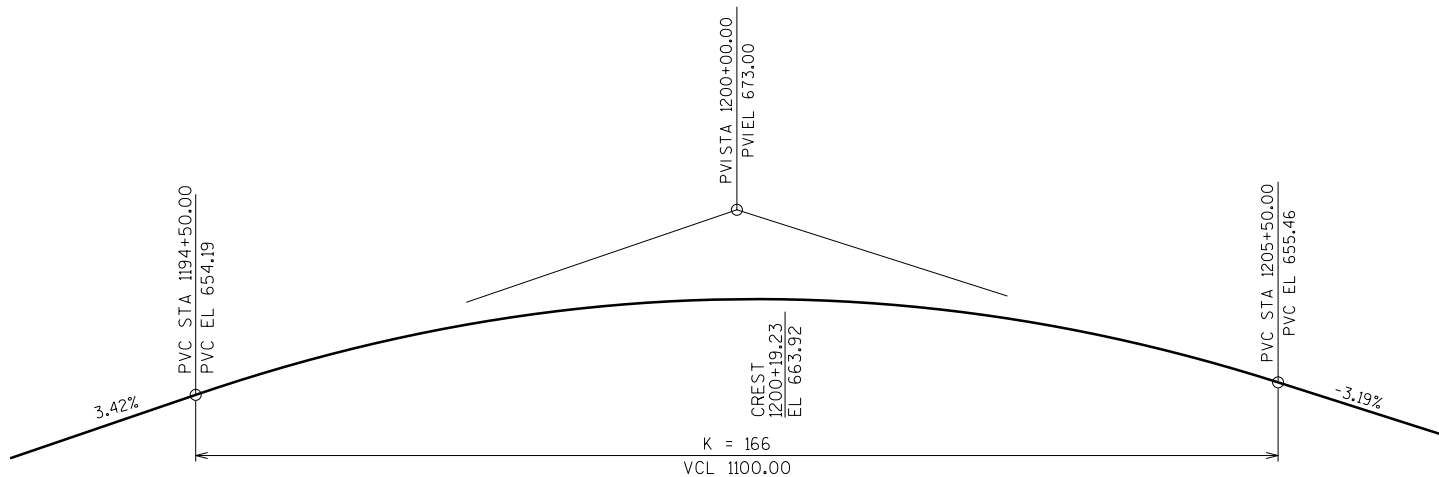
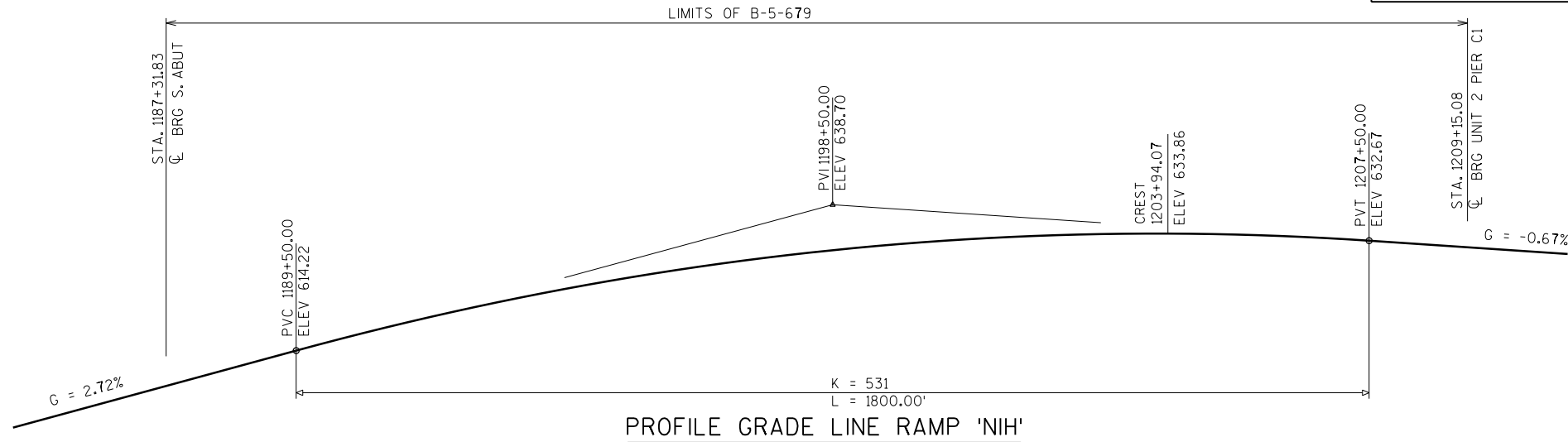
CL BEARING UNIT 2 PIER C1
STA. 1209+15.08

DECK SLOPE TRANSITION

IH 43 NB TO USH 41NB RAMP 'NIH' HORIZONTAL CURVE DATA

P.I. STA.= 1197+84.44
N= 583666.47
E= 90111.04
P.C. STA.= 1183+49.38
P.T. STA.= 1208+53.44
 Δ = 69°59'11"
D= 2°47'42"
T= 1435.07'
L= 2504.07'
R= 2050.00'

SE= VARIES



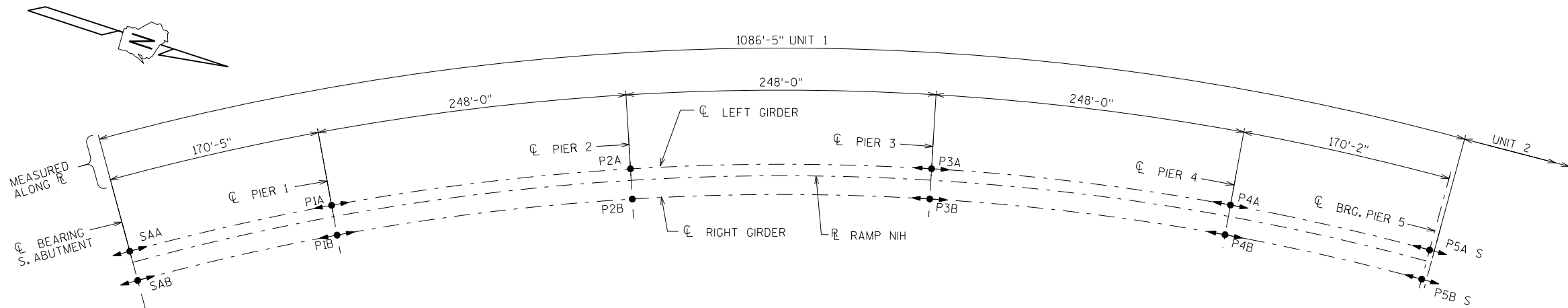
NOTES:

STEEL GIRDER FLANGES ALWAYS PARALLEL TO
DECK ABOVE.

THEORETICAL HAUNCH HEIGHT IS CONSTANT AT
4"

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
ALIGNMENT AND SUPERELEVATION		SHEET 9 OF 51	

STEEL FABRICATION CONTRACT ONLY



BEARING LAYOUT

LENGTH NOT TO SCALE

BEARING LEGEND

- MULTIROTATIONAL FIXED
- ◄●► MULTIROTATIONAL UNI-DIRECTIONAL (GUIDED)
ARROWHEADS DENOTE MOVEMENT DIRECTIONS.
- DC DEAD LOAD OF STRUCTURAL COMPONENTS AND
NONSTRUCTURAL ATTACHMENTS
- LL+I VEHICULAR LIVE LOAD AND IMPACT
- WS WIND ON STRUCTURE
- WL WIND ON LIVE LOAD
- TU FORCE EFFECT DUE TO UNIFORM TEMPERATURE
- CE VEHICULAR CENTRIFUGAL FORCE
- BR VEHICULAR BRAKING FORCE

NOTES:

SEE BEARING DETAILS SHEET FOR TYPICAL
BEARING DETAILS

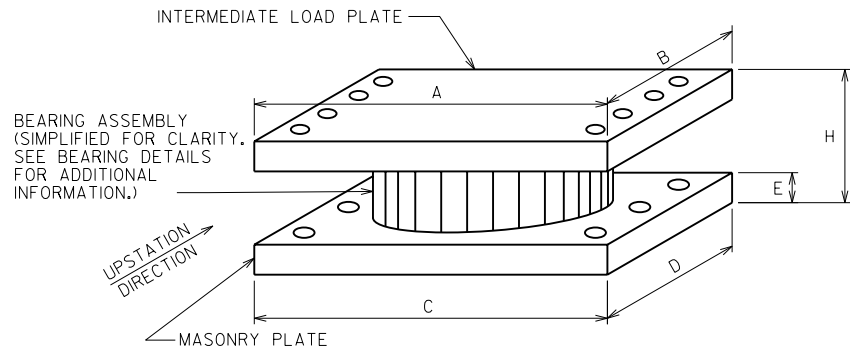
BEARING DIMENSIONS SHOWN ARE NOMINAL VALUES
ONLY AND MAY VARY WITH THE SELECTED
MANUFACTURER. IF BEARING DIMENSIONS VARY FROM
THOSE SHOWN HERE, THE BEARING MANUFACTURER
SHALL COORDINATE WITH THE STEEL GIRDER
FABRICATOR TO ASSURE THERE ARE NO CONFLICTS
WITH JACKING PADS OR ANY OTHER STEEL
ELEMENTS. THE 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 15 PERCENT OF THE VERTICAL
DEAD LOAD, WHICHEVER IS LARGER.

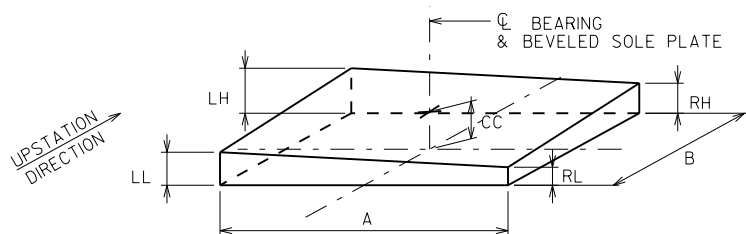
ROTATIONS SPECIFIED IN THE TABLE ARE THE
EXPECTED APPLIED ROTATIONS FROM APPLICABLE
STRENGTH LOAD COMBINATIONS.
DESIGN BEARINGS FOR AN ADDITIONAL 0.005 RADIAN
FOR FABRICATION AND INSTALLATION TOLERANCES,
AND 0.005 RADIAN FOR UNCERTAINTIES.
DESIGN ALL BEARINGS FOR A MINIMUM 0.020 RADIAN
OF TOTAL ROTATION.

BEARING MARK	TYPE	VERTICAL		TRANSVERSE				LONGITUDINAL				ROTATIONS		MOVEMENT RANGE (FOR 180 DEG.) LONGIT. (IN)	TAPERED SOLE PLATE THICKNESS					NOMINAL BEARING DIMENSIONS						MIN. ANCHOR BOLTS	MIN. TOP BOLTS
		DC (KIPS)	LL+I (KIPS)	WS (KIPS)	WL (KIPS)	TU (KIPS)	CE (KIPS)	WS (KIPS)	WL (KIPS)	TU (KIPS)	BR (KIPS)	X-AXIS TORSION (RAD)	Y-AXIS FLEXURE (RAD)		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	H (IN)		
SAA	GUIDED	296	267	26	5	3	28	7	2	30	32	0.0024	0.0042	5.90	3.03	1.00	3.91	1.88	2.45	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.
SAB	GUIDED	296	267	26	5	3	28	7	2	30	32	0.0024	0.0042	5.90	3.03	1.00	3.91	1.88	2.45	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.
P1A	GUIDED	1,218	560	64	11	6	29	16	5	122	34	0.0007	0.0019	3.50	4.00	1.00	5.25	2.25	3.13	50	35	40.875	32.875	1.75	13.25	6-1 1/2" DIA.	10-1" DIA.
P1B	GUIDED	1,218	560	64	11	6	29	16	5	122	34	0.0007	0.0019	3.50	4.00	1.00	5.25	2.25	3.13	50	35	40.875	32.875	1.75	13.25	6-1 1/2" DIA.	10-1" DIA.
P2A	FIXED	1,309	590	76	13	0	29	19	5	238	34	0.0002	0.0024	N/A	3.52	1.00	4.53	2.01	2.76	42	34	46	38	1.75	13.125	6-1 1/2" DIA.	12-1" DIA.
P2B	FIXED	1,309	590	76	13	0	29	19	5	238	34	0.0002	0.0024	N/A	3.52	1.00	4.53	2.01	2.76	42	34	46	38	1.75	13.125	6-1 1/2" DIA.	12-1" DIA.
P3A	GUIDED	1,307	589	76	13	6	29	19	5	131	34	0.0002	0.0024	3.50	4.09	1.00	4.94	1.85	2.97	51.5	36	42	34	1.75	13.625	6-1 1/2" DIA.	12-1" DIA.
P3B	GUIDED	1,307	589	76	13	6	29	19	5	131	34	0.0002	0.0024	3.50	4.09	1.00	4.94	1.85	2.97	51.5	36	42	34	1.75	13.625	6-1 1/2" DIA.	12-1" DIA.
P4A	GUIDED	1,225	560	64	11	6	29	16	5	123	34	0.0009	0.0024	7.00	3.03	1.00	3.32	1.29	2.16	50	35	40.875	32.875	1.75	13.25	6-1 1/2" DIA.	10-1" DIA.
P4B	GUIDED	1,225	560	64	11	6	29	16	5	123	34	0.0009	0.0024	7.00	3.03	1.00	3.32	1.29	2.16	50	35	40.875	32.875	1.75	13.25	6-1 1/2" DIA.	10-1" DIA.
P5A S	GUIDED	296	266	26	5	3	27	7	2	30	32	0.0024	0.0040	9.40	3.03	1.00	3.31	1.29	2.16	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.
P5B S	GUIDED	296	266	26	5	3	27	7	2	30	32	0.0024	0.0040	9.40	3.03	1.00	3.31	1.29	2.16	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.

BEARING FORCES SHOWN ARE UNFACTORED.



BEARING DIMENSION KEY



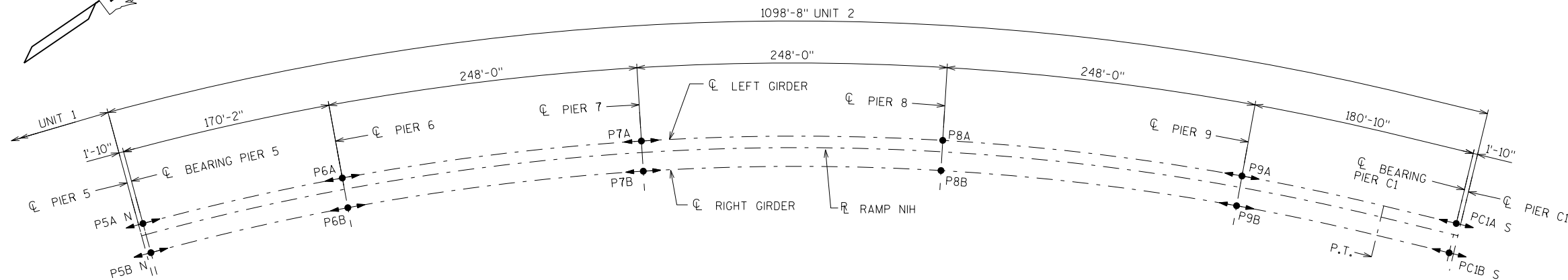
BEVELED SOLE PLATE DIMENSION KEY

(HOLES MATCHING INTERMEDIATE LOAD PLATE
NOT SHOWN FOR CLARITY)

STEEL FABRICATION CONTRACT ONLY

BEARING LAYOUT
UNIT 1

SHEET 10 OF 51

**BEARING LAYOUT**

LENGTH NOT TO SCALE

BEARING LEGEND

- MULTIROTATIONAL FIXED
- ↔ MULTIROTATIONAL UNI-DIRECTIONAL (GUIDED).
ARROWHEADS DENOTE MOVEMENT DIRECTIONS.
- DC DEAD LOAD OF STRUCTURAL COMPONENTS AND
NONSTRUCTURAL ATTACHMENTS
- LL+I VEHICULAR LIVE LOAD AND IMPACT
- WS WIND ON STRUCTURE
- WL WIND ON LIVE LOAD
- TU FORCE EFFECT DUE TO UNIFORM TEMPERATURE
- CE VEHICULAR CENTRIFUGAL FORCE
- BR VEHICULAR BRAKING FORCE

NOTES:

SEE BEARING DETAILS SHEET FOR TYPICAL
BEARING DETAILS

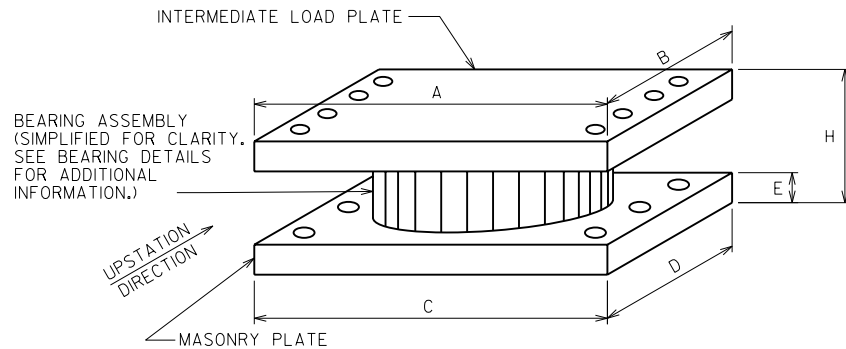
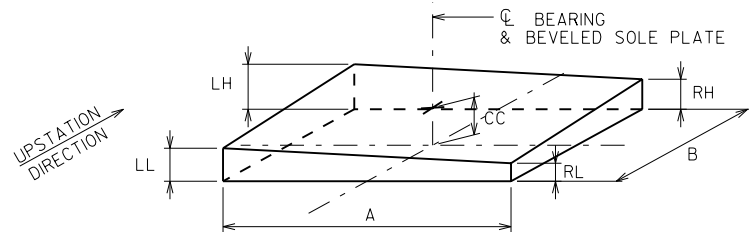
BEARING DIMENSIONS SHOWN ARE NOMINAL VALUES
ONLY AND MAY VARY WITH THE SELECTED
MANUFACTURER. IF BEARING DIMENSIONS VARY FROM
THOSE SHOWN HERE, THE BEARING MANUFACTURER
SHALL COORDINATE WITH THE STEEL GIRDER
FABRICATOR TO ASSURE THERE ARE NO CONFLICTS
WITH JACKING PADS OR ANY OTHER STEEL
ELEMENTS. THE 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 15 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.

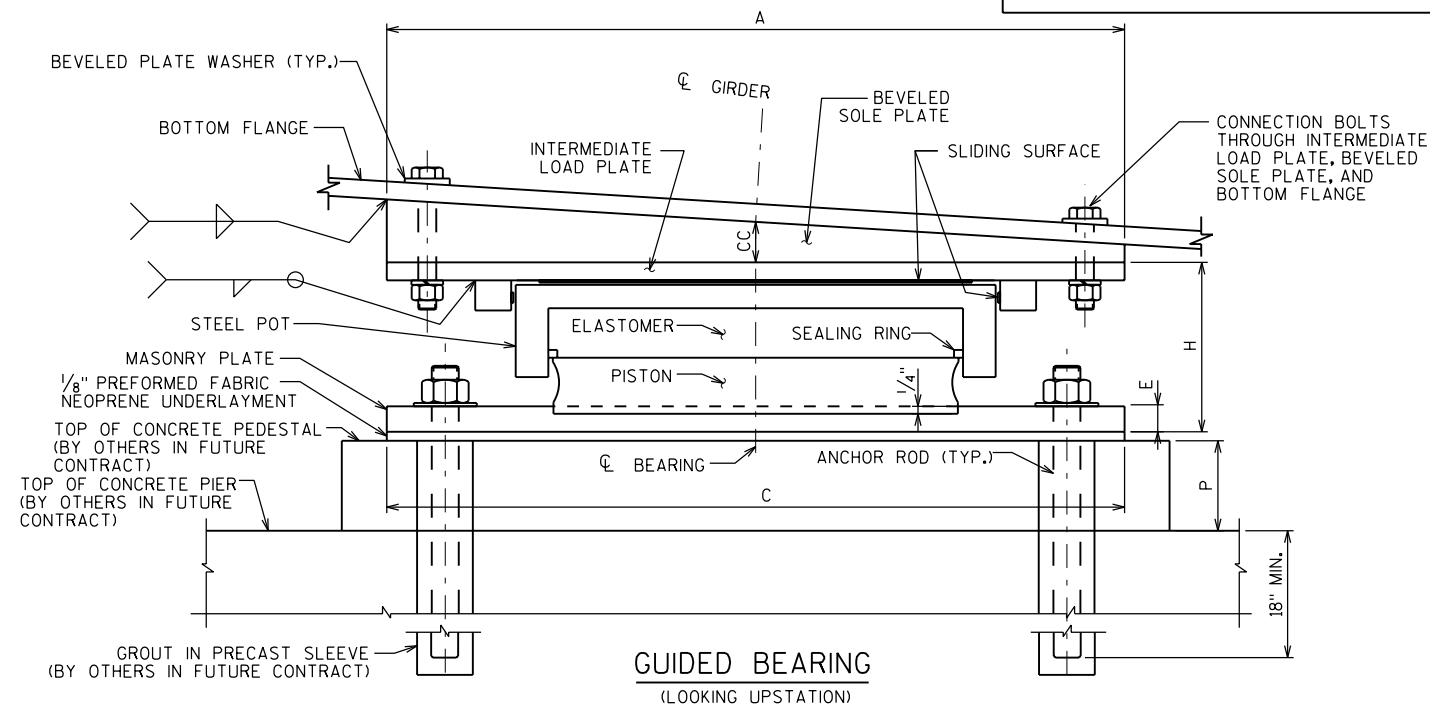
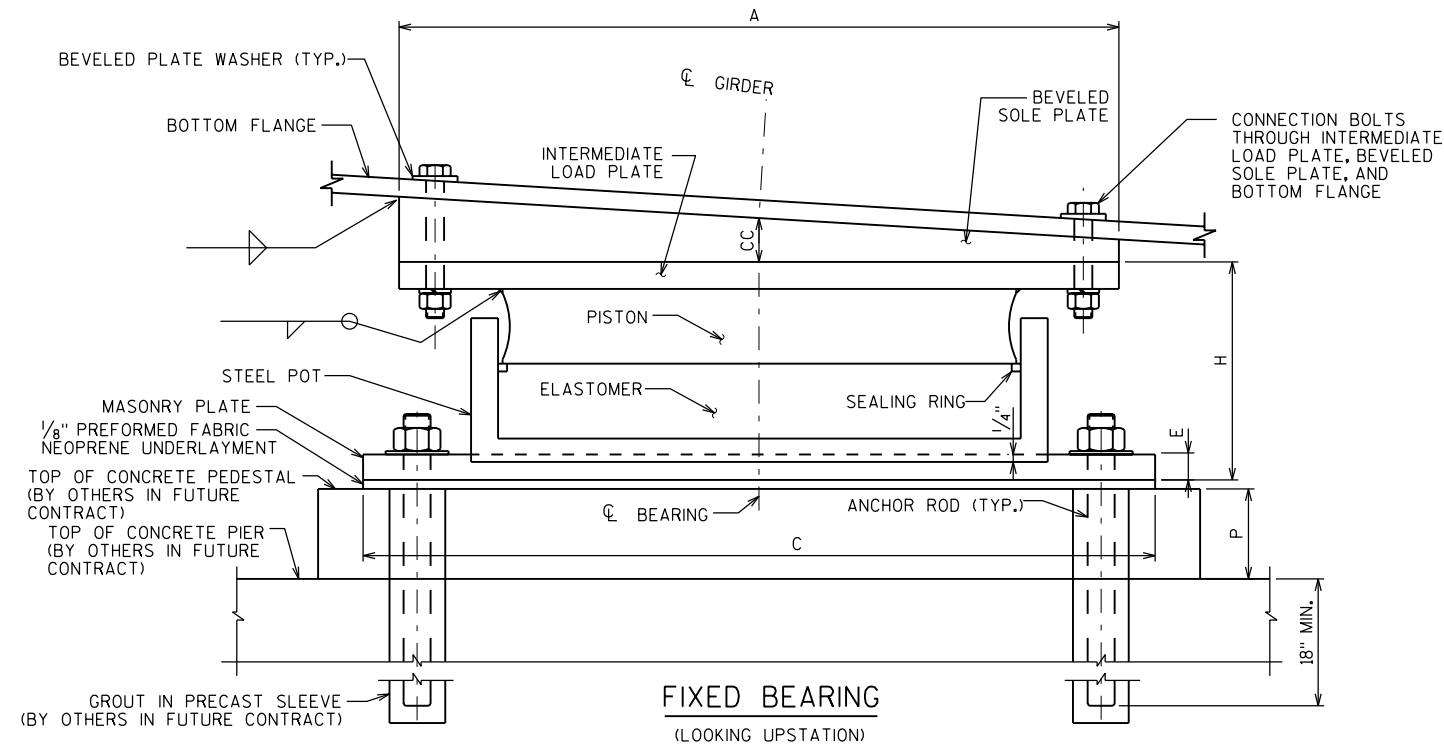
BEARING MARK	TYPE	VERTICAL		TRANSVERSE				LONGITUDINAL				ROTATIONS		MOVEMENT RANGE (FOR 180 DEG.) LONGIT. (IN)	TAPERED SOLE PLATE THICKNESS					NOMINAL BEARING DIMENSIONS						MIN. ANCHOR BOLTS	MIN. TOP BOLTS
		DC (KIPS)	LL+I (KIPS)	WS (KIPS)	WL (KIPS)	TU (KIPS)	CE (KIPS)	WS (KIPS)	WL (KIPS)	TU (KIPS)	BR (KIPS)	X-AXIS TORSION (RAD)	Y-AXIS FLEXURE (RAD)		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	H (IN)		
P5A N	GUIDED	306	258	26	5	3	26	7	2	31	31	0.0024	0.0044	9.40	3.03	1.00	3.31	1.29	2.16	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.
P5B N	GUIDED	306	258	26	5	3	26	7	2	31	31	0.0024	0.0044	9.40	3.03	1.00	3.31	1.29	2.16	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.
P6A	GUIDED	1,242	543	64	11	6	28	16	5	125	33	0.0007	0.0023	7.00	4.00	1.00	4.31	1.31	2.66	50	35	40.875	32.875	1.75	13.25	6-1 1/2" DIA.	10-1" DIA.
P6B	GUIDED	1,242	543	64	11	6	28	16	5	125	33	0.0007	0.0023	7.00	4.00	1.00	4.31	1.31	2.66	50	35	40.875	32.875	1.75	13.25	6-1 1/2" DIA.	10-1" DIA.
P7A	GUIDED	1,342	574	76	13	6	28	19	5	135	33	0.0002	0.0023	3.50	4.14	1.00	4.24	1.10	2.62	52.25	36.5	42.5	34.5	1.75	13.75	6-1 1/2" DIA.	12-1" DIA.
P7B	GUIDED	1,342	574	76	13	6	28	19	5	135	33	0.0002	0.0023	3.50	4.14	1.00	4.24	1.10	2.62	52.25	36.5	42.5	34.5	1.75	13.75	6-1 1/2" DIA.	12-1" DIA.
P8A	FIXED	1,333	574	76	13	0	28	19	5	241	33	0.0003	0.0023	N/A	3.68	1.12	3.57	1.00	2.34	42.75	34.75	46.75	38.75	1.75	13	6-1 1/2" DIA.	12-1" DIA.
P8B	FIXED	1,333	574	76	13	0	28	19	5	241	33	0.0003	0.0023	N/A	3.68	1.12	3.57	1.00	2.34	42.75	34.75	46.75	38.75	1.75	13	6-1 1/2" DIA.	12-1" DIA.
P9A	GUIDED	1,280	548	66	11	6	28	16	5	128	33	0.0007	0.0019	3.50	4.43	1.34	4.09	1.00	2.72	51.5	36	42	34	1.75	13.625	6-1 1/2" DIA.	12-1" DIA.
P9B	GUIDED	1,280	548	66	11	6	28	16	5	128	33	0.0007	0.0019	3.50	4.43	1.34	4.09	1.00	2.72	51.5	36	42	34	1.75	13.625	6-1 1/2" DIA.	12-1" DIA.
PC1A S	GUIDED	325	260	28	5	3	26	7	2	33	30	0.0031	0.0056	6.04	2.19	1.31	1.88	1.00	1.60	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.
PC1B S	GUIDED	325	260	28	5	3	26	7	2	33	30	0.0031	0.0056	6.04	2.19	1.31	1.88	1.00	1.60	33.75	22	29	21	1.75	8.5	4-1" DIA.	4-1" DIA.

BEARING FORCES SHOWN ARE UNFACTORED.

**BEARING DIMENSION KEY****BEVELED SOLE PLATE DIMENSION KEY**(HOLES MATCHING INTERMEDIATE LOAD PLATE
NOT SHOWN FOR CLARITY)

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
BEARING LAYOUT UNIT 2			SHEET 11 OF 51



NOTES:

SEE BEARING LAYOUT SHEETS FOR LOCATION-SPECIFIC DIMENSIONS.

SEE JACKING PROVISIONS SHEET FOR LOCATION AND SIZE OF BEARING REPLACEMENT JACKING PADS ATTACHED TO BOTTOM OF GIRDER FLANGE.

DESIGN BOLTED CONNECTION BETWEEN BEVELED SOLE PLATE AND INTERMEDIATE LOAD PLATE FOR THE COMBINED SPECIFIED HORIZONTAL LOADS SHOWN ON THE BEARING LAYOUT SHEETS PER AASHTO LRFD AND THE WISDOT BRIDGE MANUAL. FOR FUTURE BEARING REPLACEMENT, ARRANGE THE CONNECTION TO ENSURE ALL BOLTS CAN BE REMOVED WITHOUT INTERFERENCE FROM ANCHOR BOLTS OR OTHER OBSTRUCTIONS AFTER BEARING IS INSTALLED.

HOLES IN TOP PLATE MAY BE SLOTTED OR OVERSIZED AS REQUIRED TO FACILITATE STEEL ERECTION. IF OVERSIZED OR SLOTTED HOLES ARE USED, DESIGN CONNECTION AS SLIP-RESISTANT PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

HOLES IN MASONRY PLATE SHALL BE A MAXIMUM OF 1/8" LARGER THAN THE SPECIFIED ANCHOR BOLT DIAMETER.

BEVELED SOLE PLATE, INTERMEDIATE LOAD PLATE AND MASONRY PLATES ARE ALIGNED WITH THE GIRDER AND THE SUBSTRUCTURE BELOW.

BEVELED SOLE PLATE AND INTERMEDIATE LOAD PLATE THICKNESSES TO BE SELECTED BY THE BEARING DESIGNER. MINIMUM 1".

MASONRY PLATE THICKNESS TO BE CONFIRMED BY THE BEARING DESIGNER AND INCREASED IF REQUIRED, BUT NOT DECREASED FROM 1.75".

PROVIDE ANCHOR BOLTS IN ACCORDANCE WITH ASTM F1554 (GRADE 105) AND HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M232.

DESIGN BEARINGS TO PERMIT REPLACEMENT BY JACKING THE BRIDGE A MAXIMUM OF 1/2".

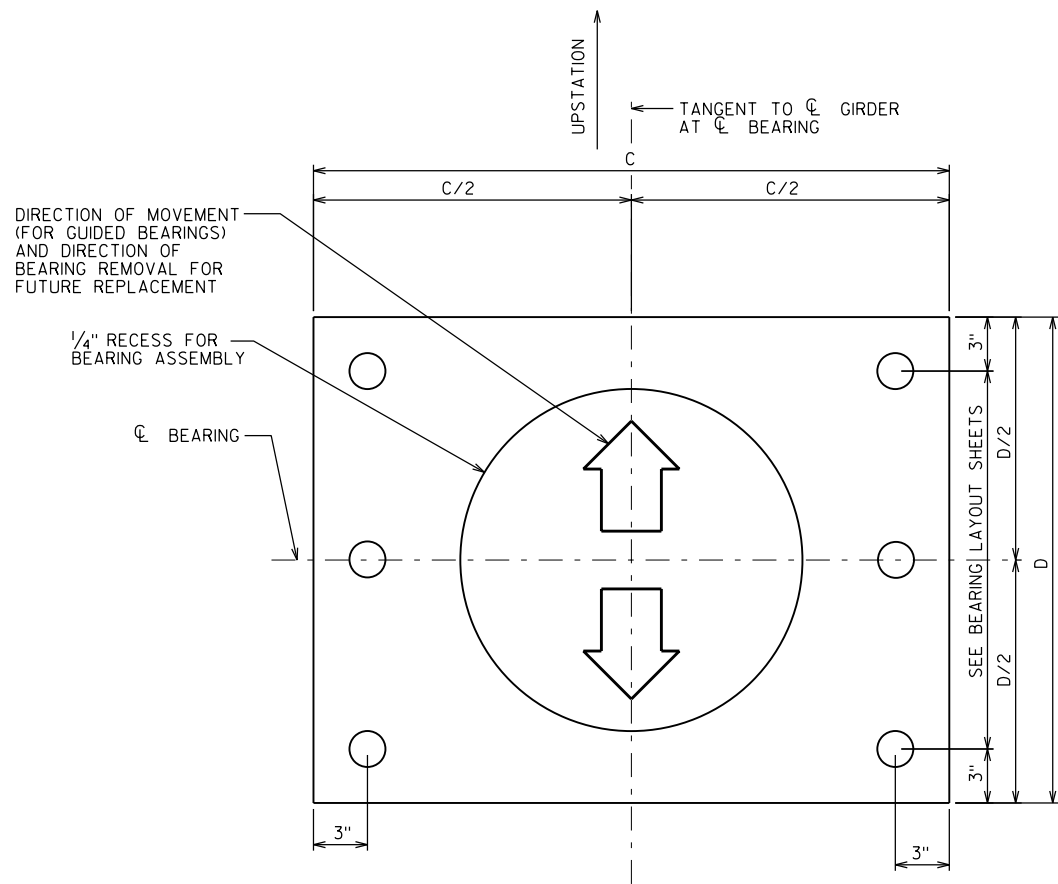
FINAL DISTANCE BETWEEN BOTTOM OF STEEL GIRDER AND TOP OF PIER IS THE SUMMATION OF "CC", THE ACTUAL "H" OF THE BEARING, 1/8" UNDERLAYMENT AND THE ACTUAL PEDESTAL HEIGHT "P". HEIGHT "P" IS ASSUMED TO BE 10" FOR ALL LOCATIONS.

ALL ELEMENTS SHOWN ARE PROVIDED BY THE BEARING MANUFACTURER (UNLESS OTHERWISE NOTED) AND COORDINATED WITH THE STEEL FABRICATOR.

THE CONTRACTOR IS RESPONSIBLE DURING STORAGE AND FUTURE ERECTION OF THE BEARING TO PREVENT OVER-ROTATION OR SLIDING OF THE BEARING. CONSTRUCTION ROTATIONS MUST NOT EXCEED THE ALLOWABLE ROTATIONS SHOWN.

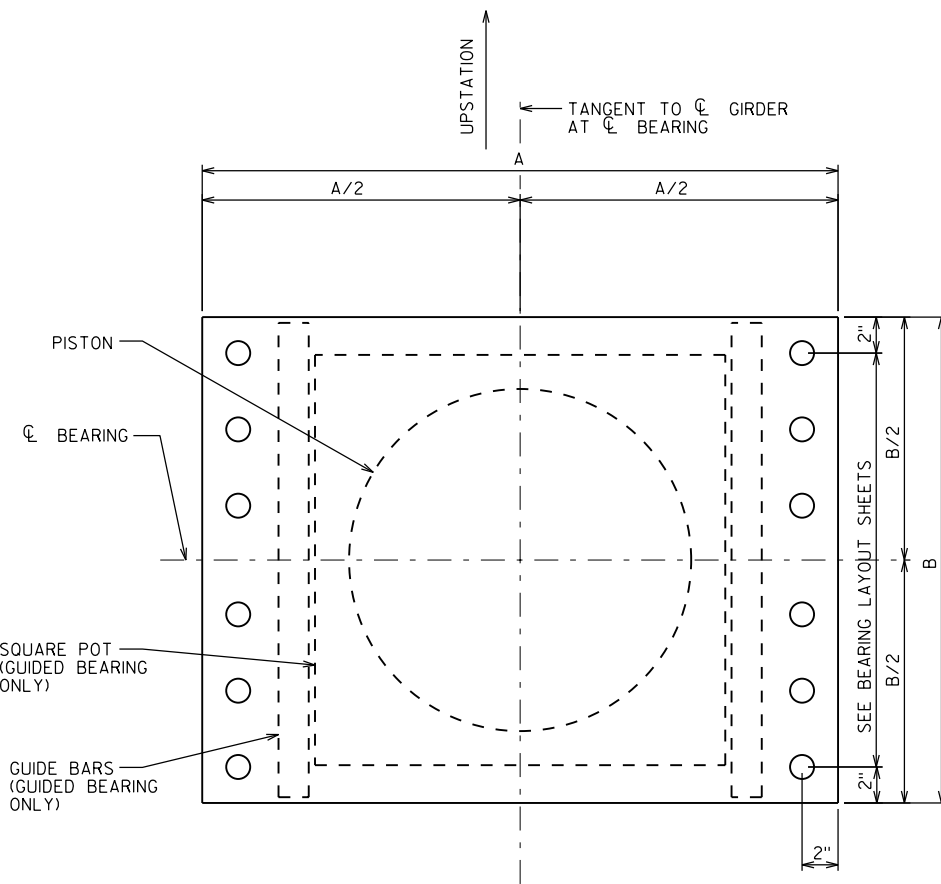
DO NOT DISASSEMBLE ANY BEARING WITHOUT THE PRESENCE OF THE TECHNICAL REPRESENTATIVE OF THE BEARING MANUFACTURER.

INSTALL BEARINGS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, AS APPROVED BY THE ENGINEER. THE MANUFACTURER SHALL HAVE ITS TECHNICAL REPRESENTATIVE PRESENT FOR THE PLACEMENT OF THE FIRST BEARING. AT THE OPTION OF THE ENGINEER, CONTRACTOR OR MANUFACTURER, THE TECHNICAL REPRESENTATIVE MAY BE REQUIRED TO BE PRESENT FOR THE PLACEMENT OF ANY NUMBER OF ADDITIONAL BEARINGS.



PLAN - MASONRY PLATE

SEE BEARING LAYOUT SHEETS FOR REQUIRED NUMBER OF ANCHOR RODS PER RESPECTIVE BEARING

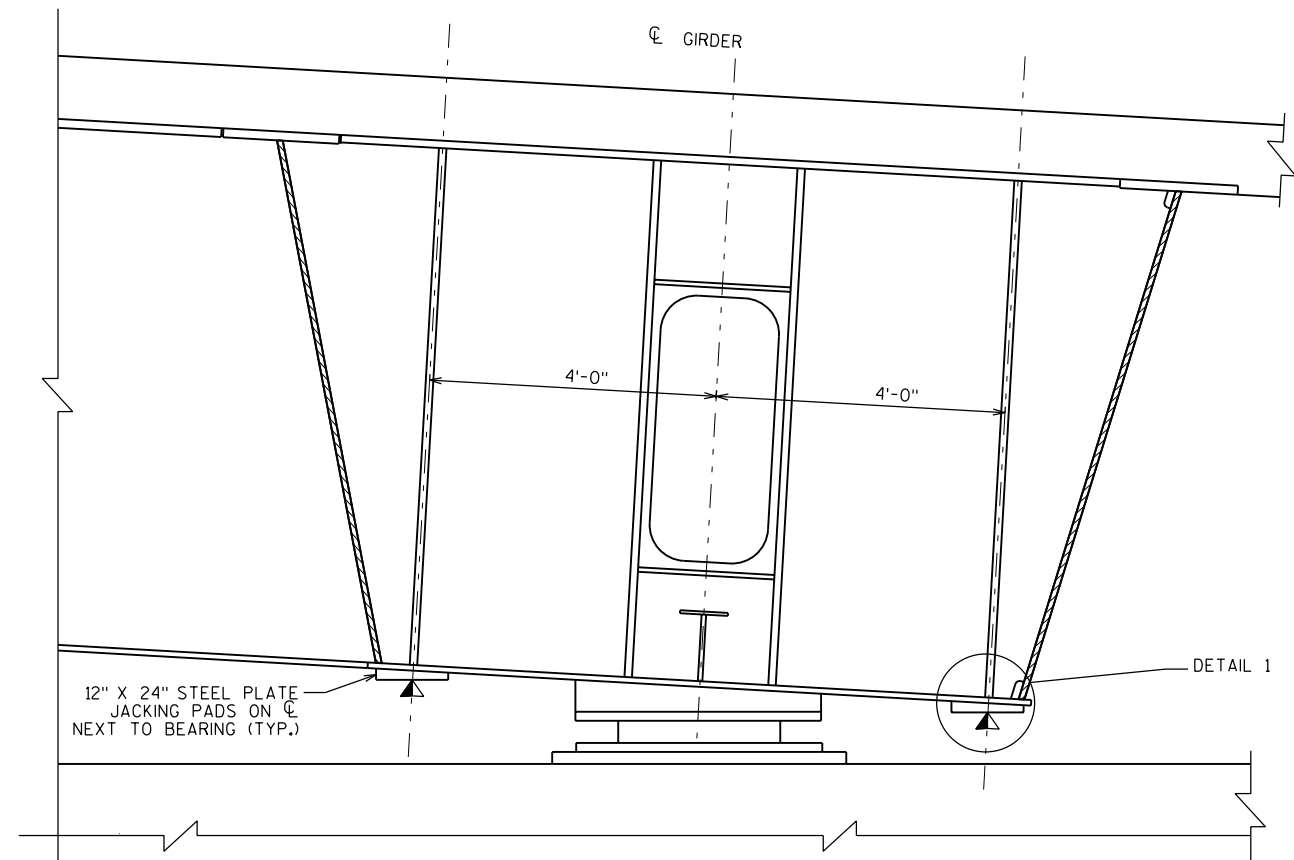


PLAN - INTERMEDIATE LOAD PLATE

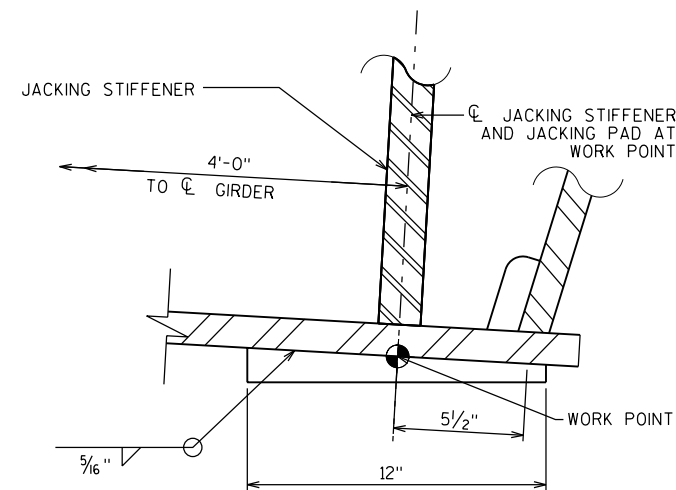
(BEVELED SOLE PLATE SIMILAR)

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
BEARING DETAILS			SHEET 12 OF 51



TYPICAL ELEVATION
(LOOKING UPSTATION)



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.

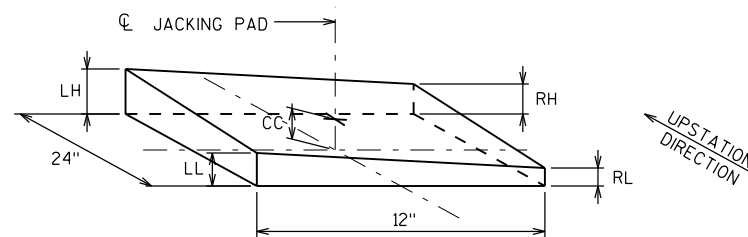
JACKING PADS ARE PROVIDED TO GIVE A JACKING SURFACE THAT IS APPROXIMATELY LEVEL AND TO ENSURE THAT JACKING LOADS ARE APPLIED TO THE CORRECT LOCATION.

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 JACK FORCE.

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.

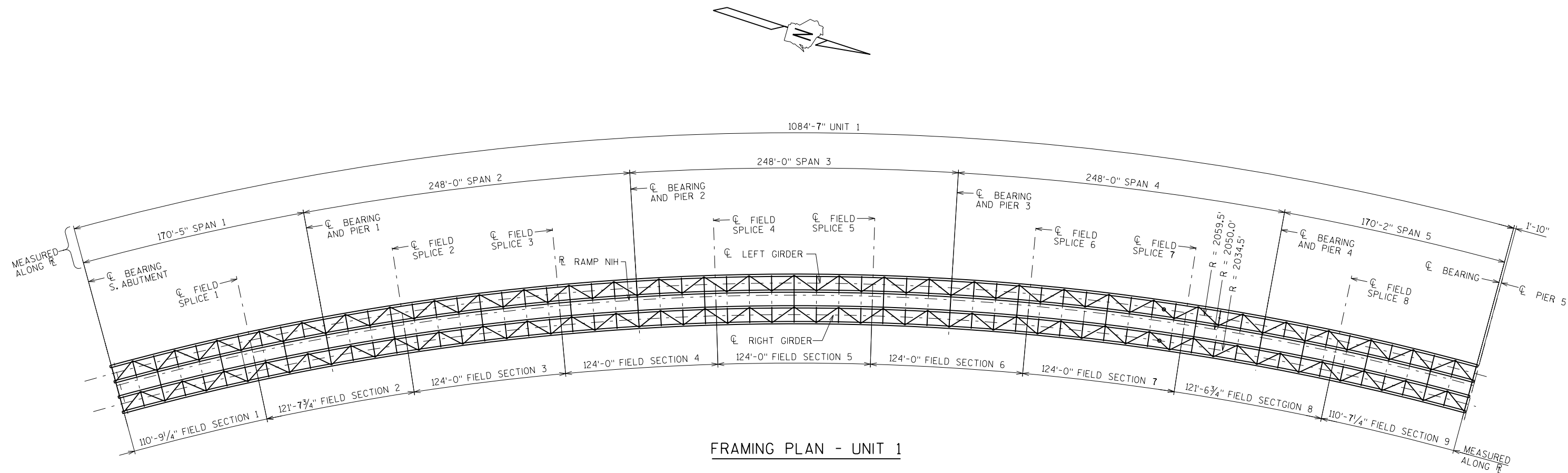


JACKING PAD DIMENSION KEY

LOCATION	NUMBER OF PADS PER BOX	LEFT BOX JACKING PAD DIMENSIONS					RIGHT BOX JACKING PAD DIMENSIONS					MIN. JACK FORCE (KIP)
		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	
S. ABUT.	2	1.72	1.00	2.68	1.96	1.84	1.72	1.00	2.68	1.96	1.84	290
PIER 1	2	1.72	1.00	2.58	1.86	1.79	1.72	1.00	2.58	1.86	1.79	890
PIER 2	2	1.72	1.00	2.43	1.71	1.72	1.72	1.00	2.43	1.71	1.72	950
PIER 3	2	1.72	1.00	2.28	1.56	1.64	1.72	1.00	2.28	1.56	1.64	950
PIER 4	2	1.72	1.00	2.14	1.42	1.57	1.72	1.00	2.14	1.42	1.57	900
PIER 5 S	2	1.72	1.00	2.04	1.32	1.52	1.72	1.00	2.04	1.32	1.52	290
PIER 5 N	2	1.72	1.00	2.03	1.31	1.52	1.72	1.00	2.03	1.31	1.52	290
PIER 6	2	1.72	1.00	1.93	1.21	1.47	1.72	1.00	1.93	1.21	1.47	900
PIER 7	2	1.72	1.00	1.79	1.07	1.39	1.72	1.00	1.79	1.07	1.39	960
PIER 8	2	1.80	1.08	1.72	1.00	1.40	1.80	1.08	1.72	1.00	1.40	960
PIER 9	2	1.95	1.23	1.72	1.00	1.47	1.95	1.23	1.72	1.00	1.47	920
PIER C1	2	1.65	1.34	1.31	1.00	1.32	1.65	1.34	1.31	1.00	1.32	300

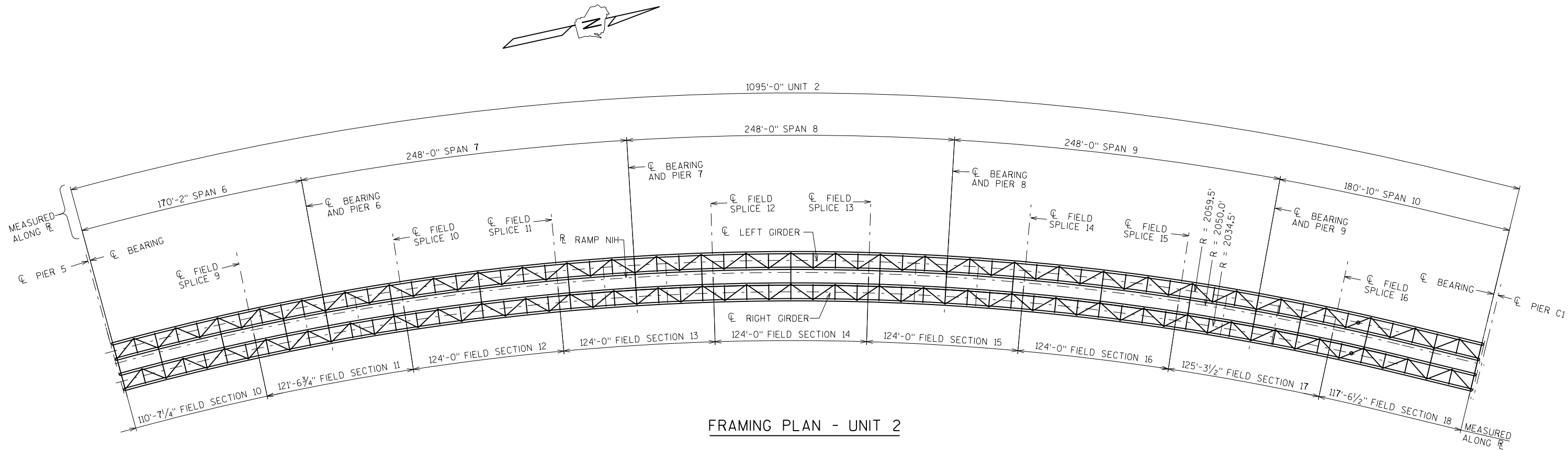
STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
JACKING PROVISIONS			SHEET 13 OF 51



FRAMING PLAN - UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY	ZMG	PLANS CK'D.	NPP
FRAMING PLAN UNIT 1 SPANS 1 TO 5		SHEET 14 OF 51	



FRAMING PLAN - UNIT 2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
FRAMING PLAN UNIT 2			SHEET 15 OF 51
SPANS 6 TO 10			

STEEL FABRICATION CONTRACT ONLY

D1	INTERIOR DIAPHRAGM OVER PIER FOR CONTINUOUS SPAN
D2	INTERIOR DIAPHRAGM OVER PIER AT UNIT BREAK
D3	INTERIOR DIAPHRAGM AT ABUTMENT
D4	INTERIOR INTERMEDIATE DIAPHRAGM
XDA-B	EXTERIOR DIAPHRAGM (WHERE 'A' INDICATES CORRESPONDING INTERIOR DIAPHRAGM NUMBER AND 'B' INDICATES SEQUENTIAL NUMBER WHICH VARIES DUE TO CHANGE IN CROSS SLOPE)

- SHEAR STUDS FURNISHED AND
INSTALLED BY OTHERS DURING
FUTURE ERECTION CONTRACT.

ALL LONGITUDINAL DIMENSIONS SHOWN ARE MEASURED HORIZONTALLY ALONG CENTERLINE OF EACH GIRDER. CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CAMBER AND GRADE.

FOR SHOP WELDED BUTT SPLICES
OF FLANGES, FABRICATOR MAY
CHOOSE TO ELIMINATE SPLICE AND
CONTINUE THICKER PLATE TO END OF
SECTION AT FIELD SPLICE AT NO
ADDITIONAL COST TO THE OWNER.
ADJUST CAMBER IF PLATE SIZES
ARE CHANGED.

TENSION ZONES SHOWN ABOVE THE GIRDER ELEVATION INDICATE TENSION ZONES FOR TOP FLANGE AND UPPER PORTION OF WEB.

TENSION ZONES SHOWN BELOW THE GIRDER ELEVATION INDICATE TENSION ZONES FOR BOTTOM FLANGE AND LOWER PORTION OF WEB.

FOR OPTIONAL SHOP SPLICE DETAIL
AS REQUIRED DUE TO MAXIMUM PLATE
LENGTHS AVAILABLE FROM MILL, SEE
MISCELLANEOUS GIRDER DETAILS SHEET.

FOR LONGITUDINAL STIFFENER
TERMINATION DETAILS SEE SHEETS
MISCELLANEOUS GIRDER DETAILS 1 AND
MISCELLANEOUS GIRDER DETAILS 2.

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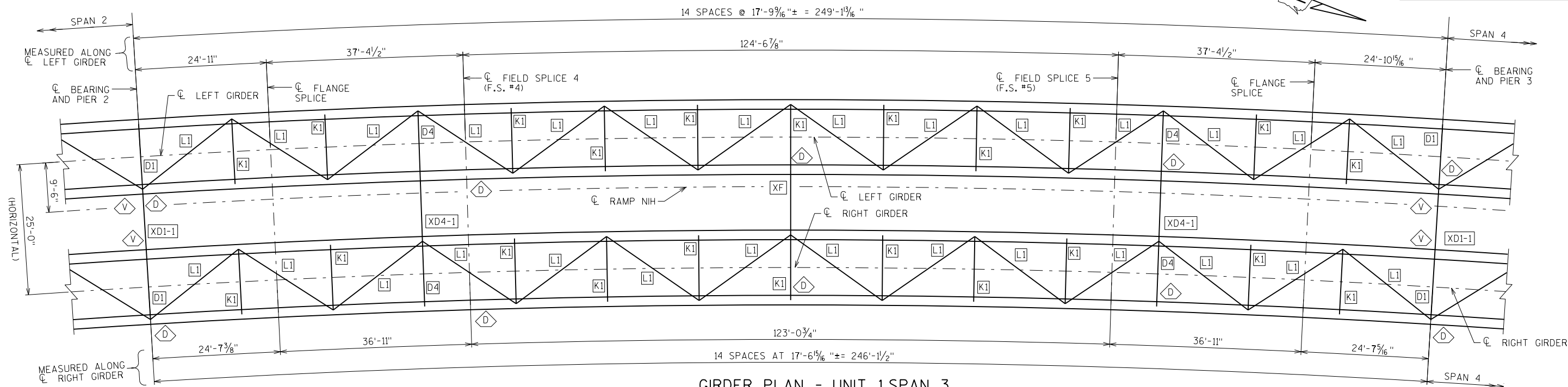


STEEL FABRICATION CONTRACT ONLY

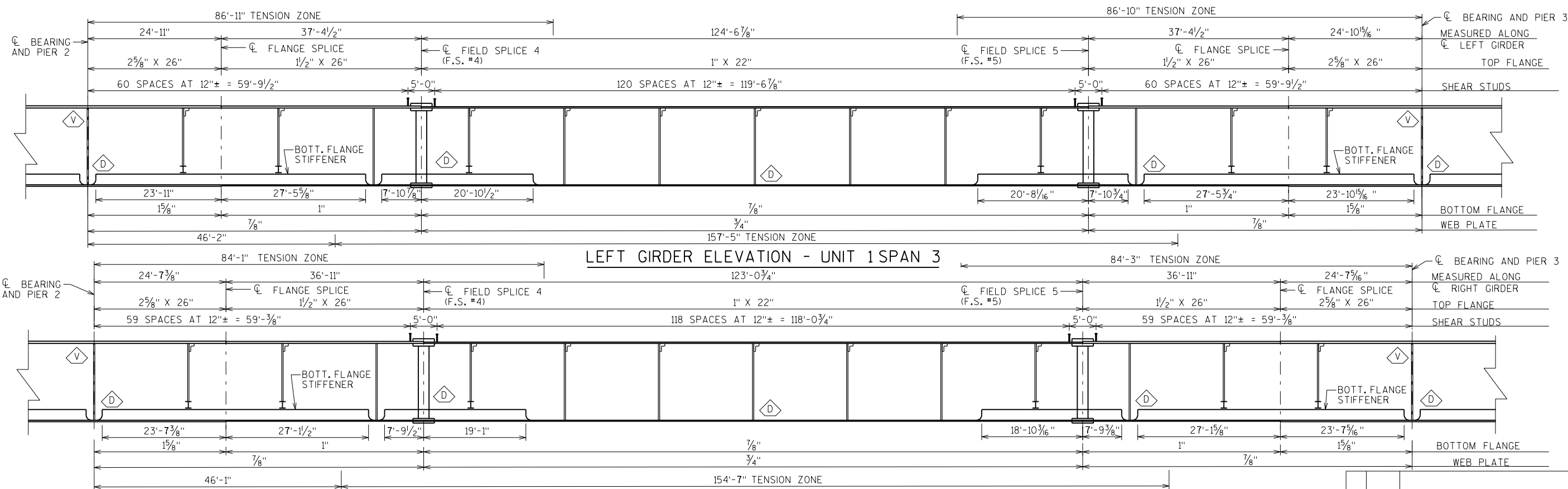


NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE B-5-679					
		DRAWN BY	ZMG	PLANS CK'D.	NPP
GIRDER PLAN AND ELEVATION UNIT 1 SPAN 2				SHEET 17 OF 51	

STEEL FABRICATION CONTRACT ONLY



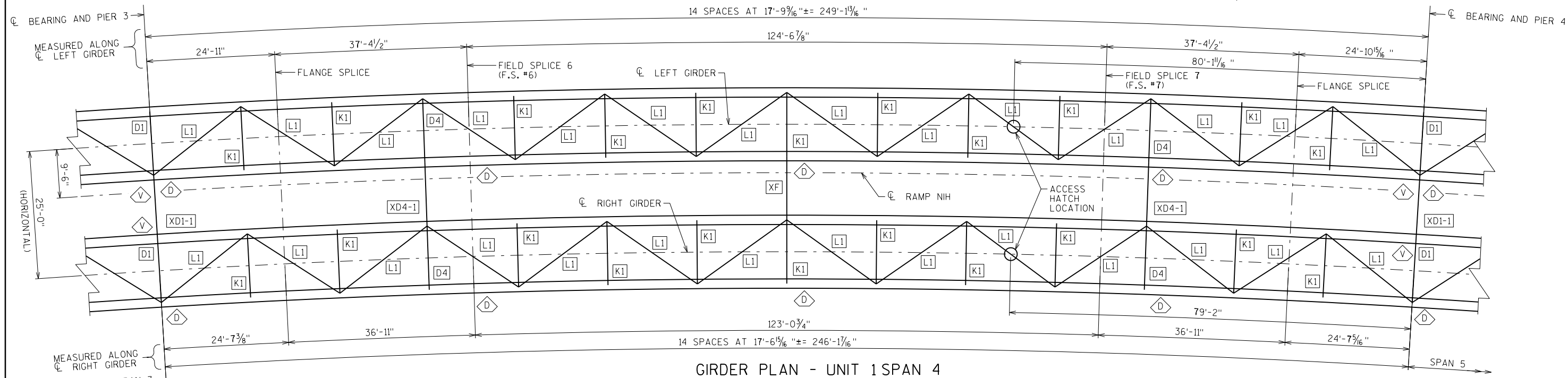
GIRDER PLAN - UNIT 1 SPAN 3



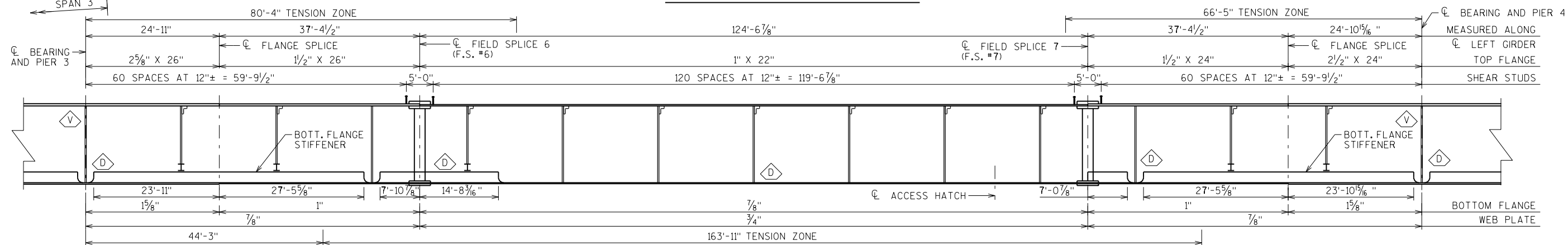
RIGHT GIRDER ELEVATION - UNIT 1 SPAN 3

STEEL FABRICATION CONTRACT ONLY

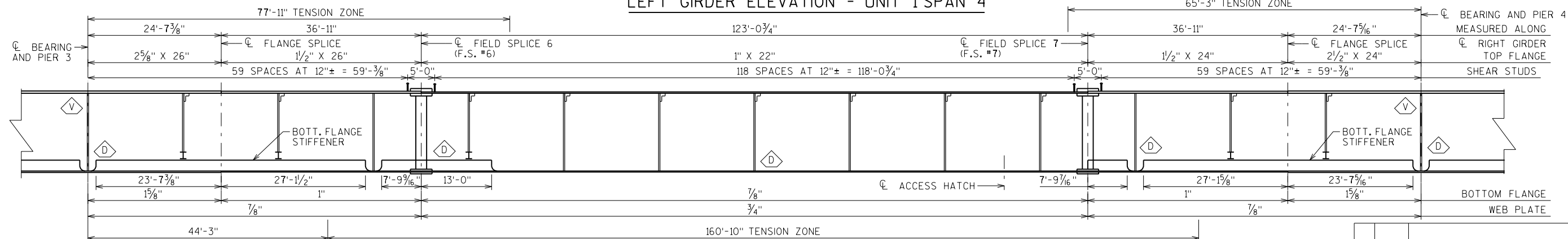
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
GIRDER PLAN AND ELEVATION UNIT 1 SPAN 3			SHEET 18 OF 51



GIRDER PLAN - UNIT 1 SPAN 4



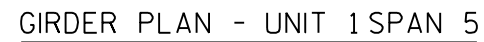
LEFT GIRDER ELEVATION - UNIT 1 SPAN 4



RIGHT GIRDER ELEVATION - UNIT 1 SPAN 4

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMC		PLANS CK'D. NPP	
GIRDER PLAN AND ELEVATION UNIT 1 SPAN 4			SHEET 19 OF 51



GIRDER PLAN
AND ELEVATION
UNIT 1 SPAN 5

SHEET 20 OF 51

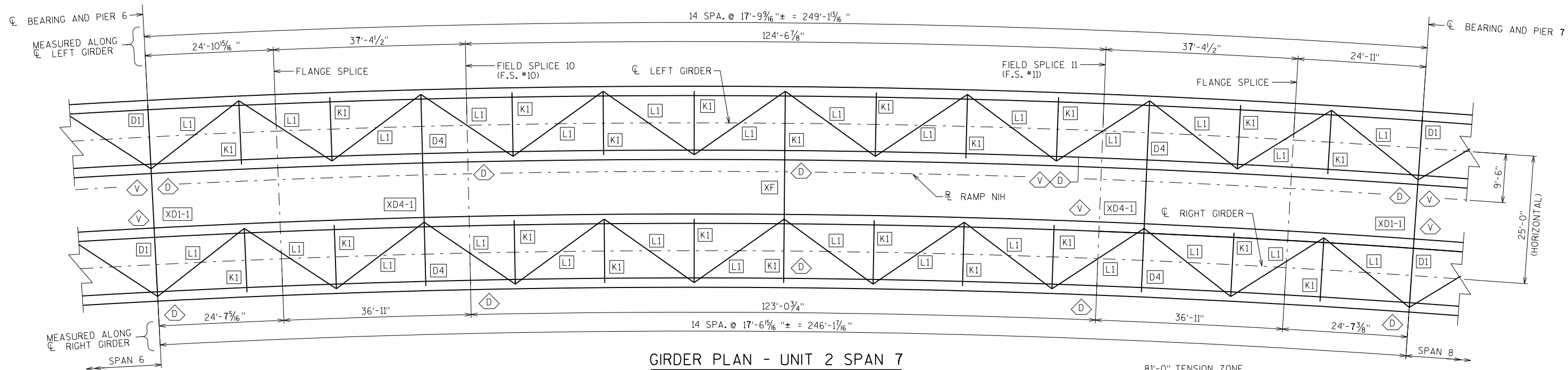


GIRDER PLAN - UNIT 2 SPAN 6

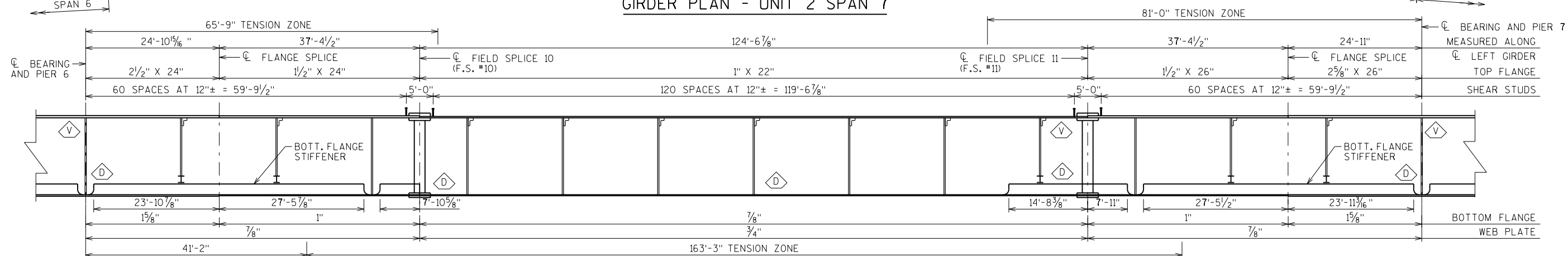


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
GIRDER PLAN AND ELEVATION UNIT 2 SPAN 6		SHEET 21 OF 51	

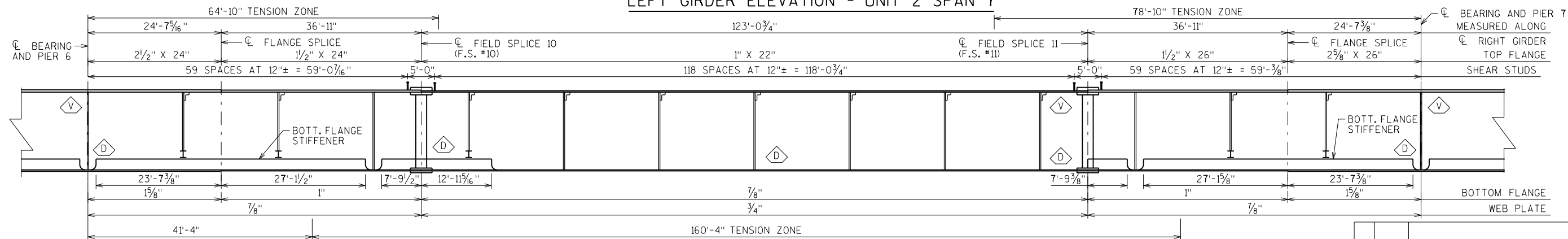
STEEL FABRICATION CONTRACT ONLY



GIRDER PLAN - UNIT 2 SPAN 7



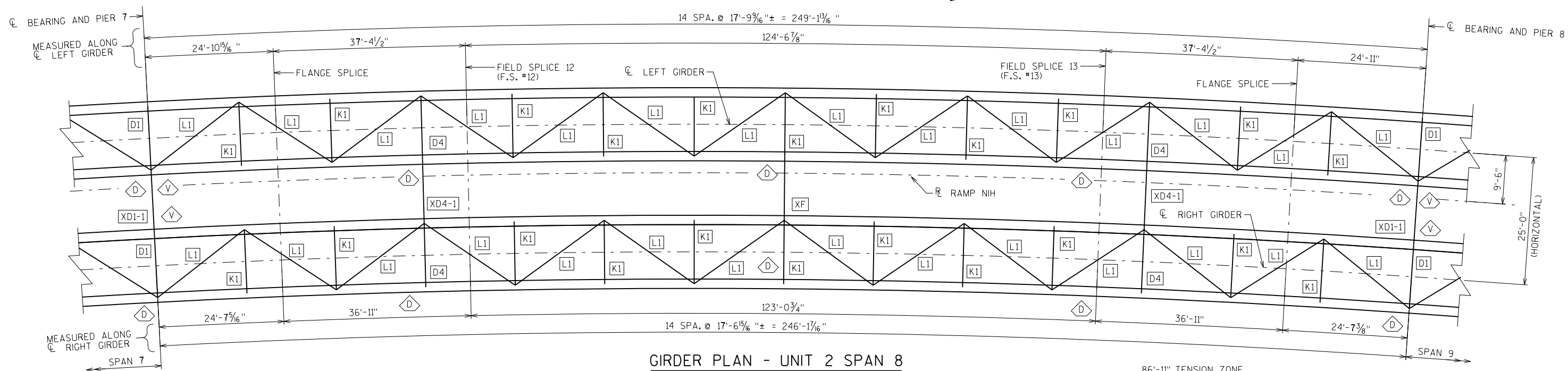
LEFT GIRDER ELEVATION - UNIT 2 SPAN 7



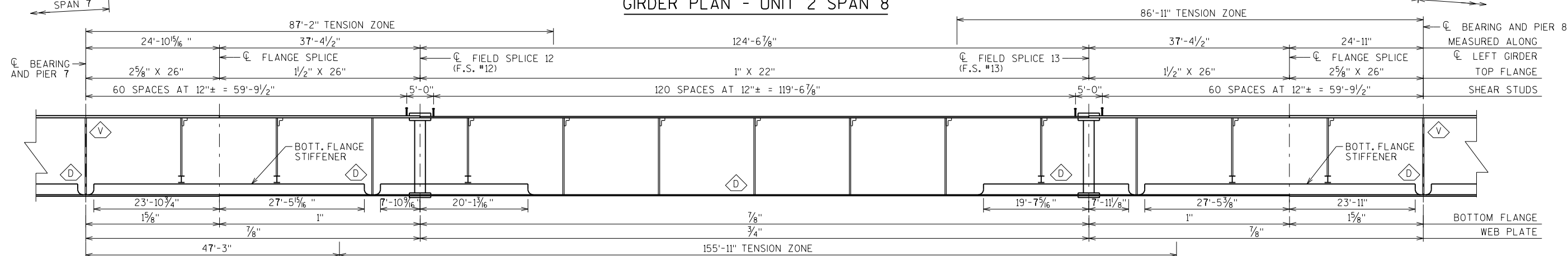
RIGHT GIRDER ELEVATION - UNIT 2 SPAN 7

STEEL FABRICATION CONTRACT ONLY

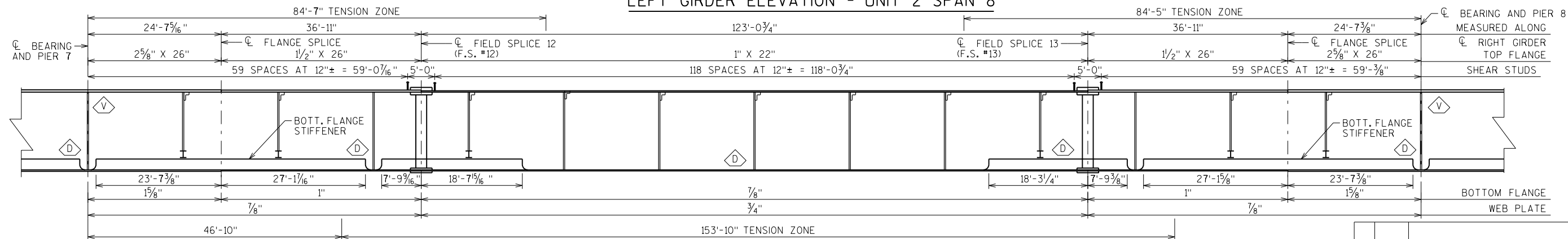
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
GIRDER PLAN AND ELEVATION UNIT 2 SPAN 7			SHEET 22 OF 51



GIRDER PLAN - UNIT 2 SPAN 8



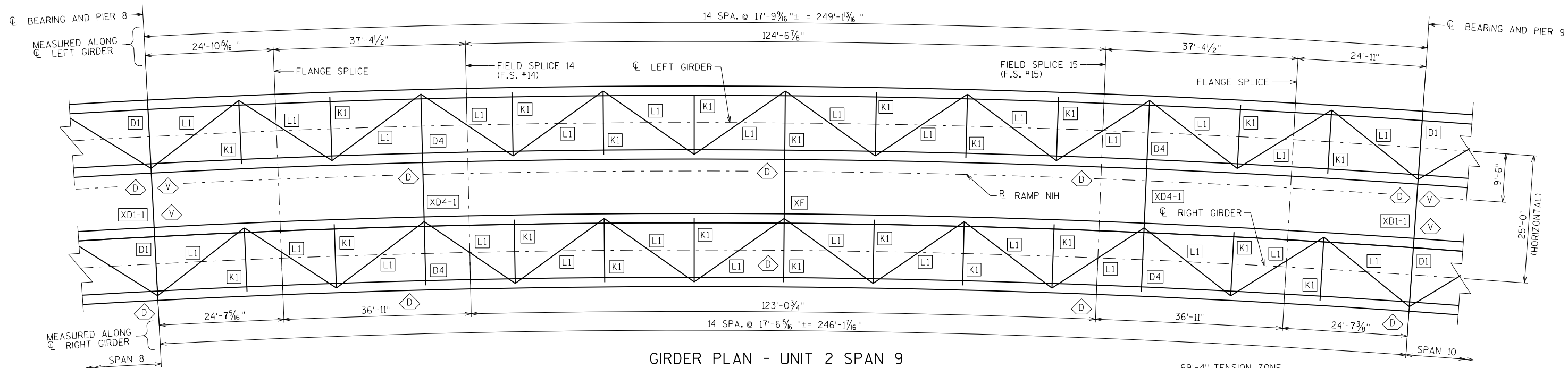
LEFT GIRDER ELEVATION - UNIT 2 SPAN 8



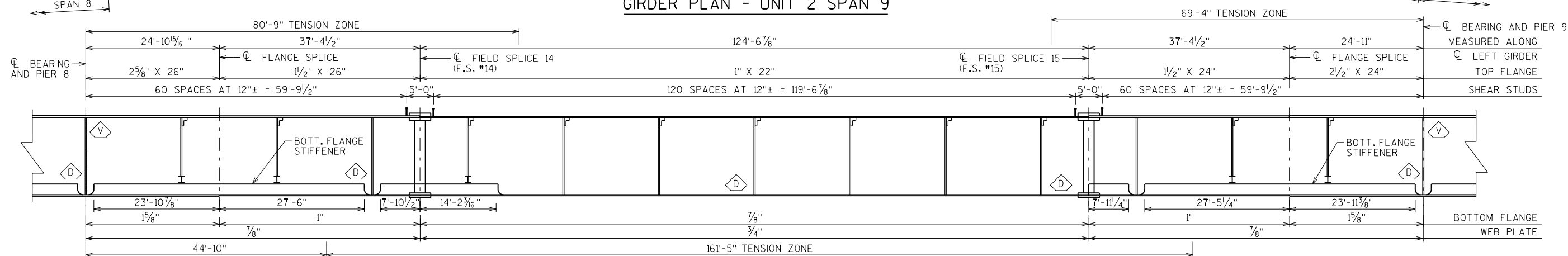
RIGHT GIRDER ELEVATION - UNIT 2 SPAN 8

STEEL FABRICATION CONTRACT ONLY

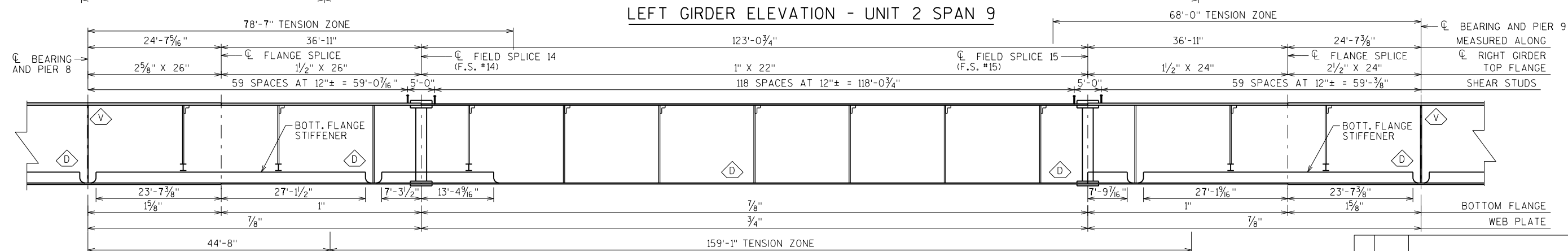
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
GIRDER PLAN AND ELEVATION UNIT 2 SPAN 8			SHEET 23 OF 51



GIRDER PLAN - UNIT 2 SPAN 9



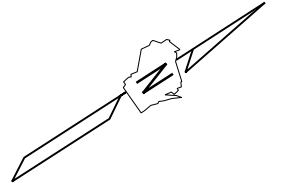
LEFT GIRDER ELEVATION - UNIT 2 SPAN 9



RIGHT GIRDER ELEVATION - UNIT 2 SPAN 9

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		ZMG	PLANS CK'D. NPP
GIRDER PLAN AND ELEVATION UNIT 2 SPAN 9			SHEET 24 OF 51

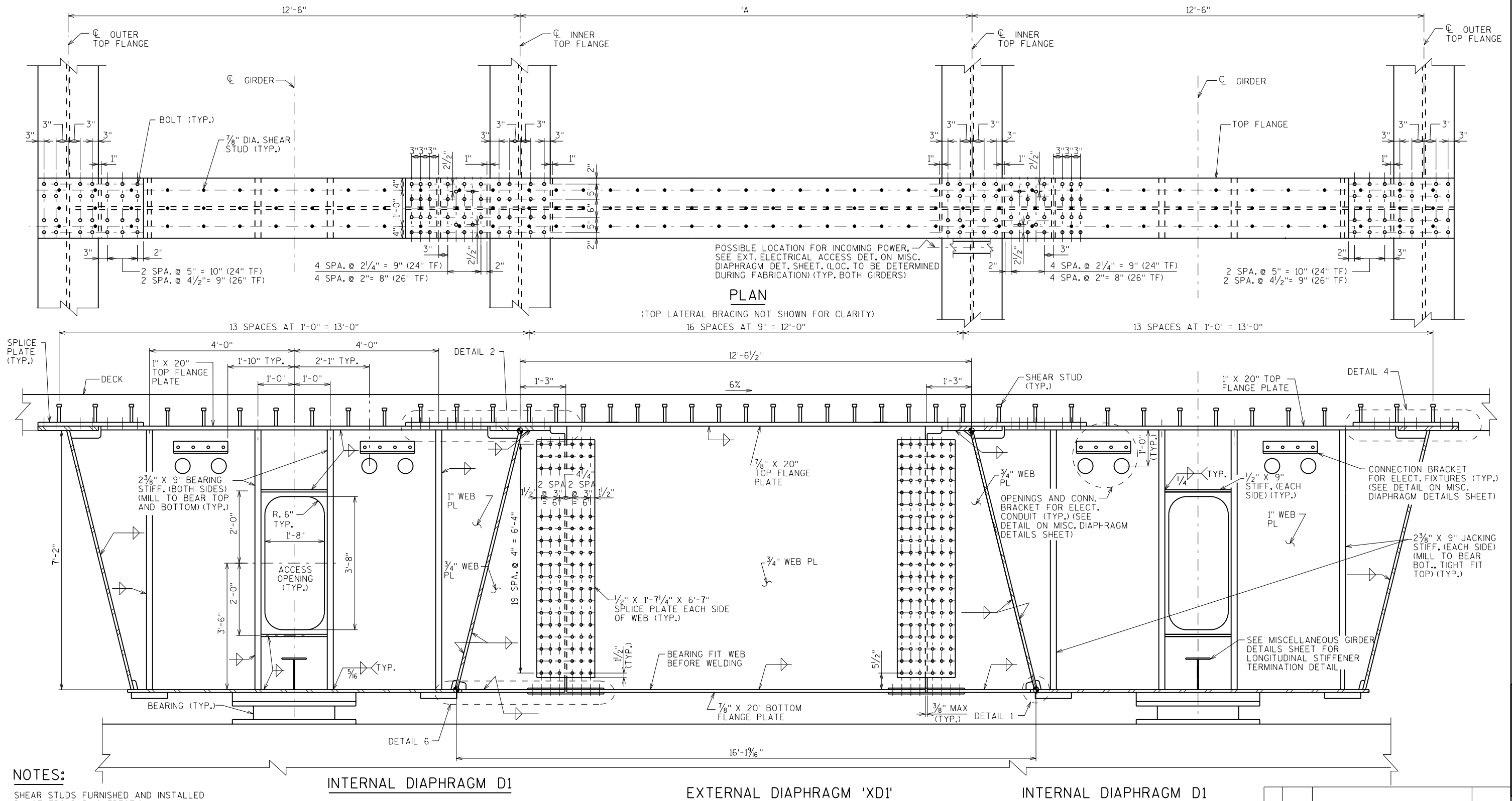


GIRDER PLAN - UNIT 2 SPAN 10

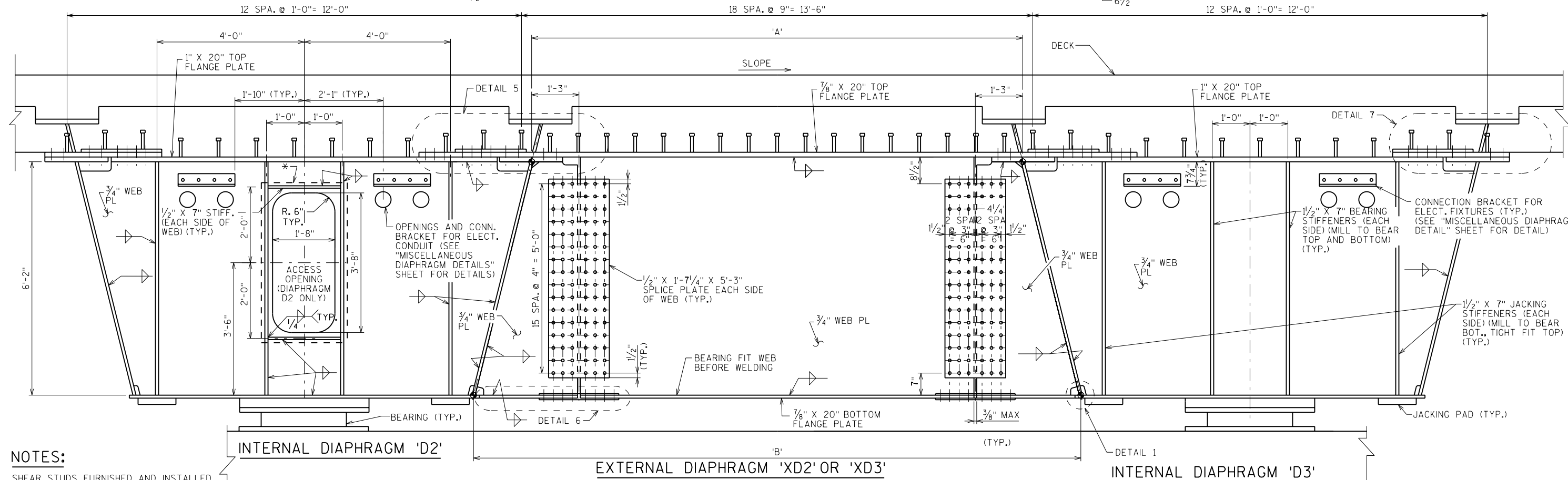
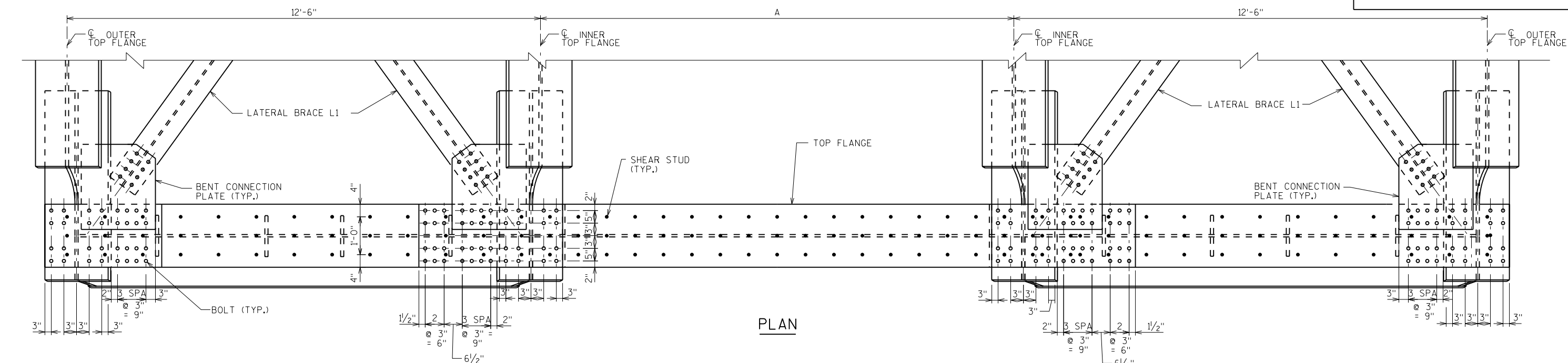


NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE B-5-679					
			DRAWN BY	ZMG	PLANS CK'D. NPP
GIRDER PLAN AND ELEVATION UNIT 2 SPAN 10				SHEET 25 OF 51	

STEEL FABRICATION CONTRACT ONLY



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
INTERMEDIATE PIER DIAPHRAGMS XD1 AND D1			SHEET 26 OF 51



NOTES:

SHEAR STUDS FURNISHED AND INSTALLED BY OTHERS DURING ERECTION.

ALL BOLTS SHOWN SHALL BE 7/8" DIAMETER.

TOP OF DIAPHRAGM TOP FLANGE PLATE TO BE PROVIDED WITH 3 MIL OF AN ORGANIC ZINC RICH PRIMER.

SEE MISCELLANEOUS DIAPHRAGM DETAILS SHEET FOR DETAILS 1, 5, 6 AND 7 AND SECTIONS.

UNLESS OTHERWISE NOTED, ALL DIMENSIONS GIVEN ARE PARALLEL OR PERPENDICULAR TO SUPERELEVATION.

* ACCESS DOOR REQUIRED AT INTERNAL DIAPHRAGM D2, SEE ACCESS DOOR DETAILS SHEET.

TABLE OF VARIABLES

	A	B	SLOPE
XD2-1	13'-0 3/16"	16'-1 1/16"	-6.00%
XD3-1	13'-0 3/16"	16'-1 1/16"	-6.00%
XD3-2	13'-0 1/8"	16'-1 1/8"	-2.62%

DIMENSIONS ARE MEASURED ALONG SUPERELEVATION.

EXTERNAL DIAPHRAGM 'XD2' OR 'XD3'

(BETWEEN TWO "D2" DIAPHRAGMS OR TWO "D3" DIAPHRAGMS)

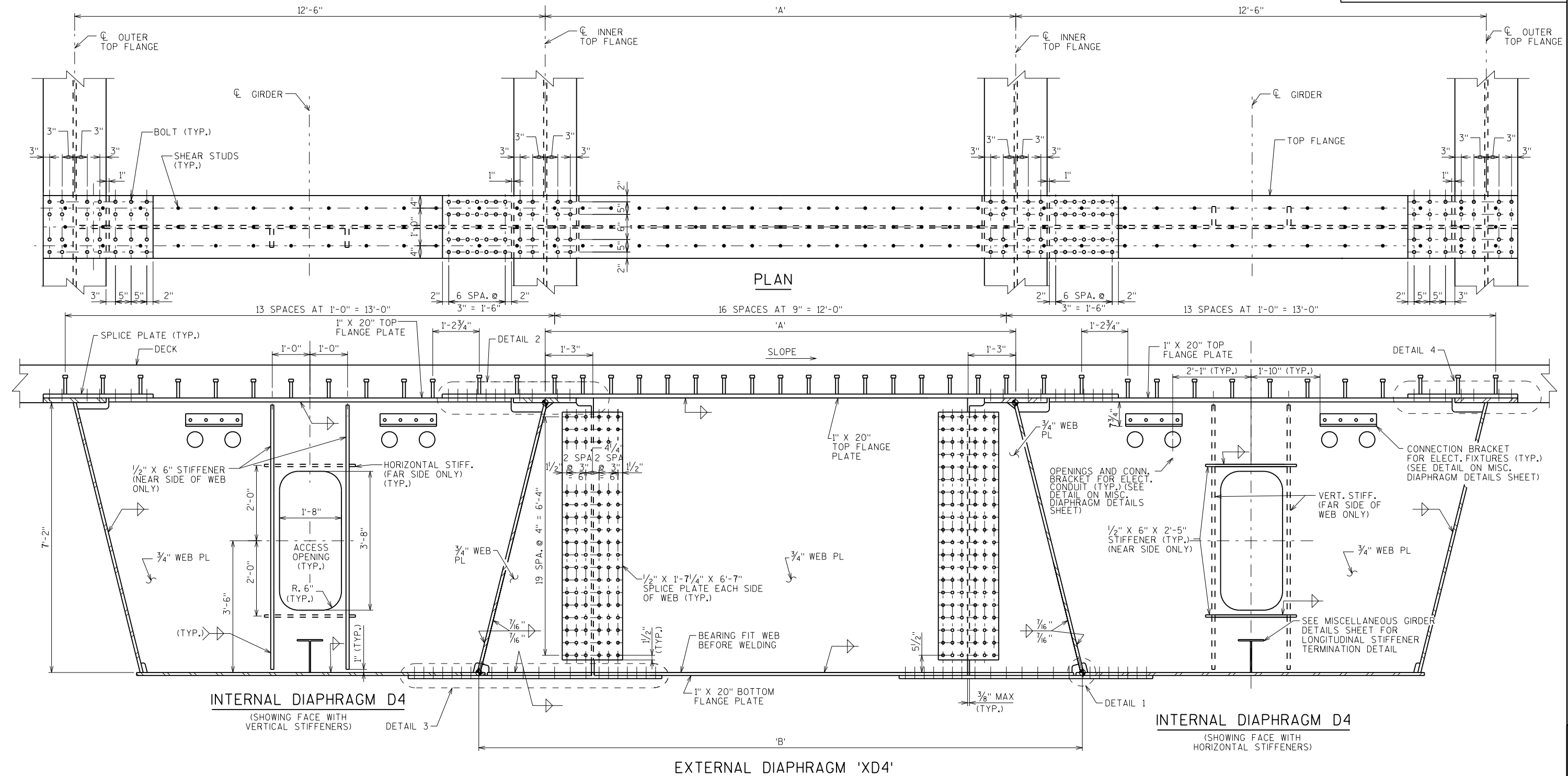
ELEVATION

(SUPERELEVATION NOT SHOWN)

- SLOPE

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
UNIT END DIAPHRAGMS XD2, XD3, D2, AND D3			SHEET 27 OF 51



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NOTES:

SHEAR STUDS FURNISHED AND INSTALLED BY OTHERS DURING ERECTION.

ALL BOLTS SHOWN SHALL BE $\frac{7}{8}$ " DIAMETER.

TOP OF DIAPHRAGM TOP FLANGE PLATE TO BE PROVIDED WITH 3 MIL OF ORGANIC ZINC RICH PRIMER.

SEE MISCELLANEOUS DIAPHRAGM DETAILS SHEET FOR DETAILS 1, 2, 3 AND 4 AND SECTIONS.

UNLESS OTHERWISE NOTED, ALL DIMENSIONS GIVEN ARE PARALLEL OR PERPENDICULAR TO SUPERELEVATION.

TABLE OF VARIABLES

	A	B	SLOPE
XD4-1	12'-6 $\frac{1}{2}$ "	16'-1 $\frac{1}{4}$ "	-6.00%
XD4-2	12'-6 $\frac{1}{2}$ "	16'-1 $\frac{1}{2}$ "	-5.84%
XD4-3	12'-6 $\frac{5}{8}$ "	16'-1 $\frac{1}{4}$ "	-4.63%
XD4-4	12'-6 $\frac{3}{8}$ "	16'-1 $\frac{1}{4}$ "	-3.42%

- SLOPE

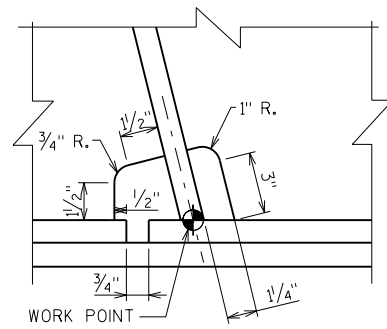
ELEVATION

(SUPERELEVATION NOT SHOWN)

STEEL FABRICATION CONTRACT ONLY

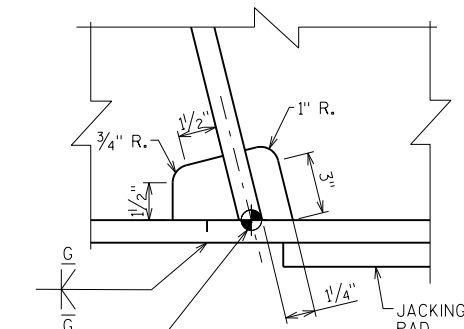
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
INTERMEDIATE DIAPHRAGMS XD4 AND D4		SHEET 28 OF 51	

8



DETAIL 1

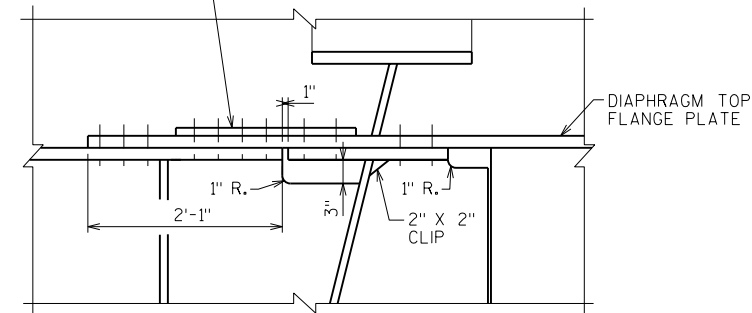
DIAPHRAGM XD4/D4



DETAIL 1

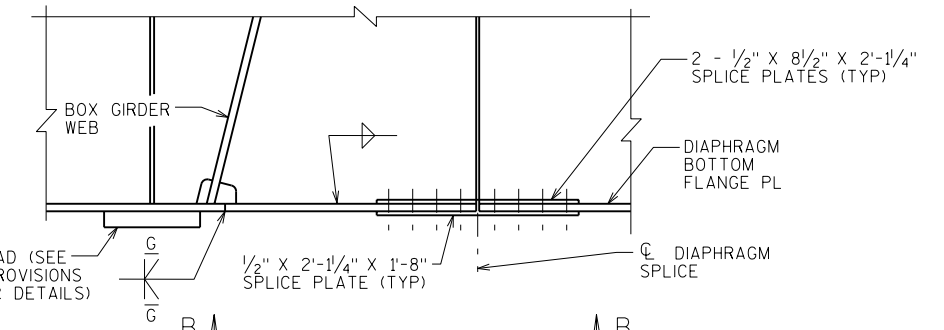
DIAPHRAGMS XD1/D1 AND XD2/D2/XD3/D3

5/8" BENT CONNECTION PLATE SEE
"BRACING CONNECTION DETAILS
SHEET 2" FOR DIMENSION



DETAIL 5

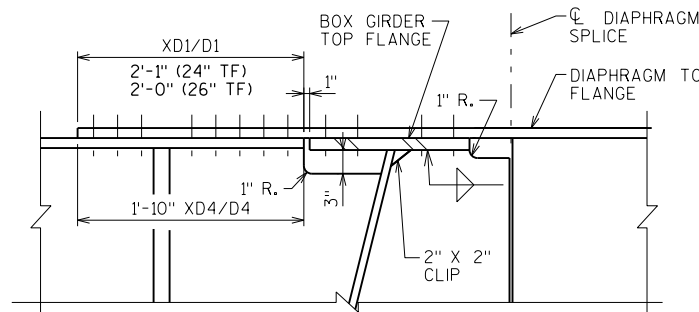
DIAPHRAGMS XD2/D2/XD3/D3



DETAIL 6

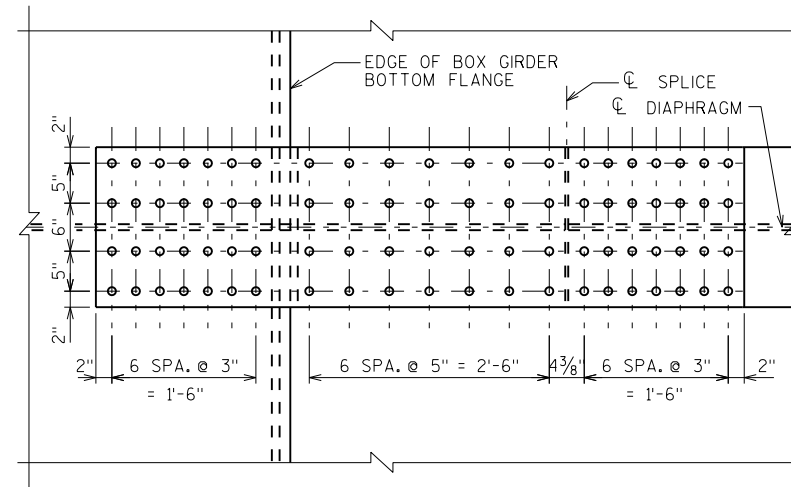
DIAPHRAGMS XD1/D1, XD2/D2 AND XD3/D3

* SEE MISC. GIRDER DETAILS
SHEET 2



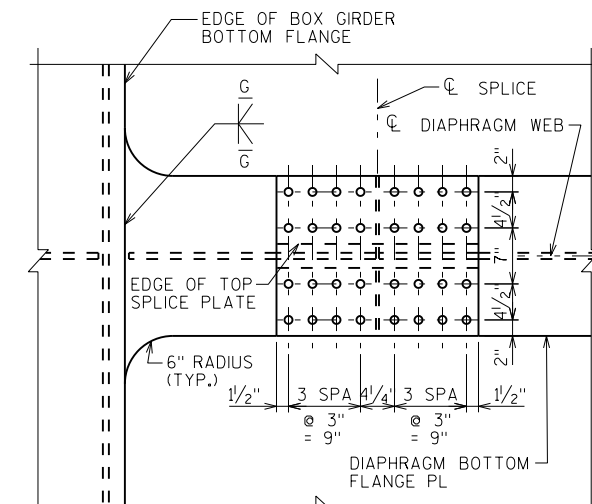
DETAIL 2

SHEET XD1/D1 AND XD4/D4

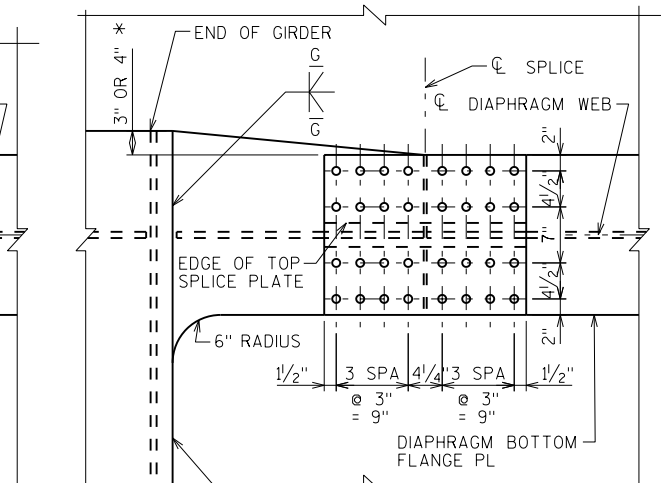


SECTION A-A

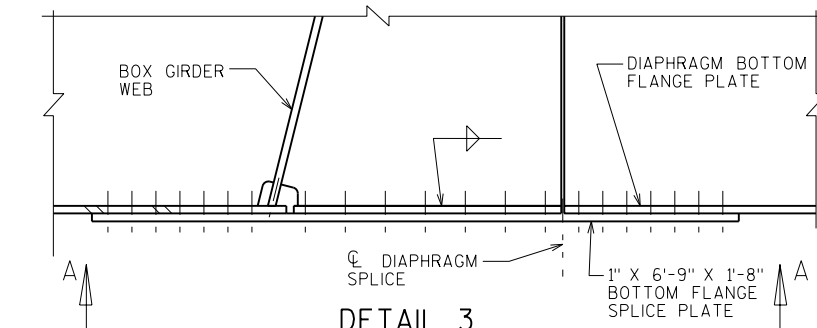
THIS SHEET



SECTION B-B

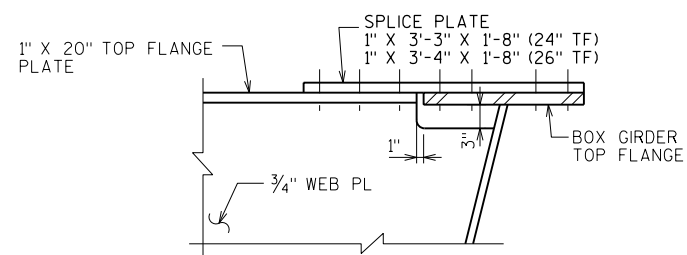
THIS SHEET
(DIAPHRAGM XD1/D1)

SECTION B-B

THIS SHEET
(DIAPHRAGM XD2/D2 AND XD3/D3)

DETAIL 3

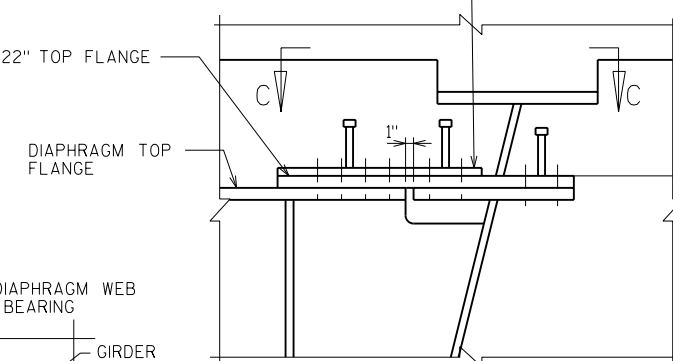
DIAPHRAGM XD4/D4



DETAIL 4

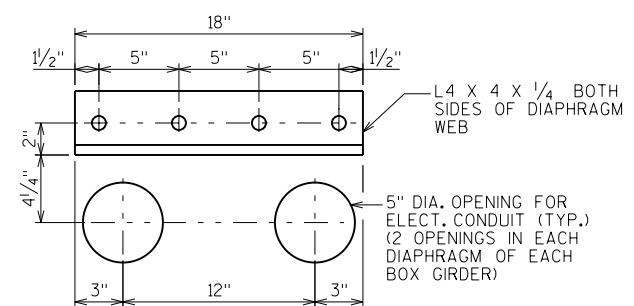
DIAPHRAGMS XD1/D1 AND XD4/D4

1" X 3'-0" X 1'-8" FOR 22" TOP FLANGE
SPlice PLATE

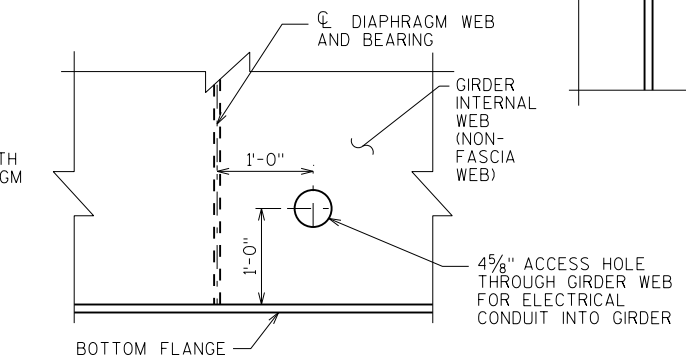


DETAIL 7

DIAPHRAGMS XD2/D2/XD3/D3

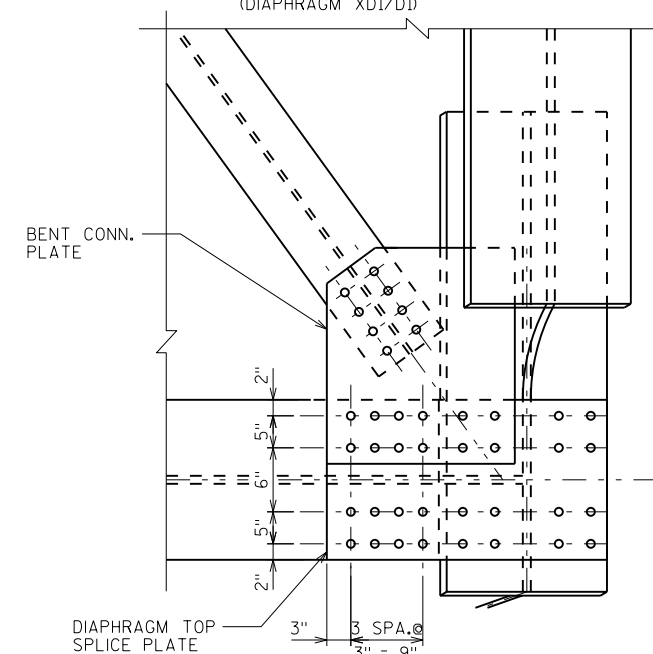


OPENINGS AND CONNECTION
BRACKET DETAILS FOR ELECTRICAL

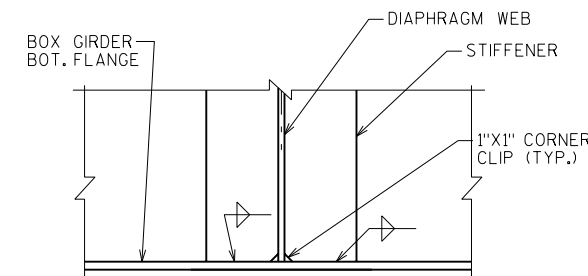


EXTERNAL ELECTRICAL ACCESS DETAIL

TWO ACCESS LOCATIONS FOR INCOMING POWER TO INTERIOR
OF GIRDER (LOC. TO BE DETERMINED DURING
FABRICATION) (TYP. BOTH GIRDERS)



SECTION C-C

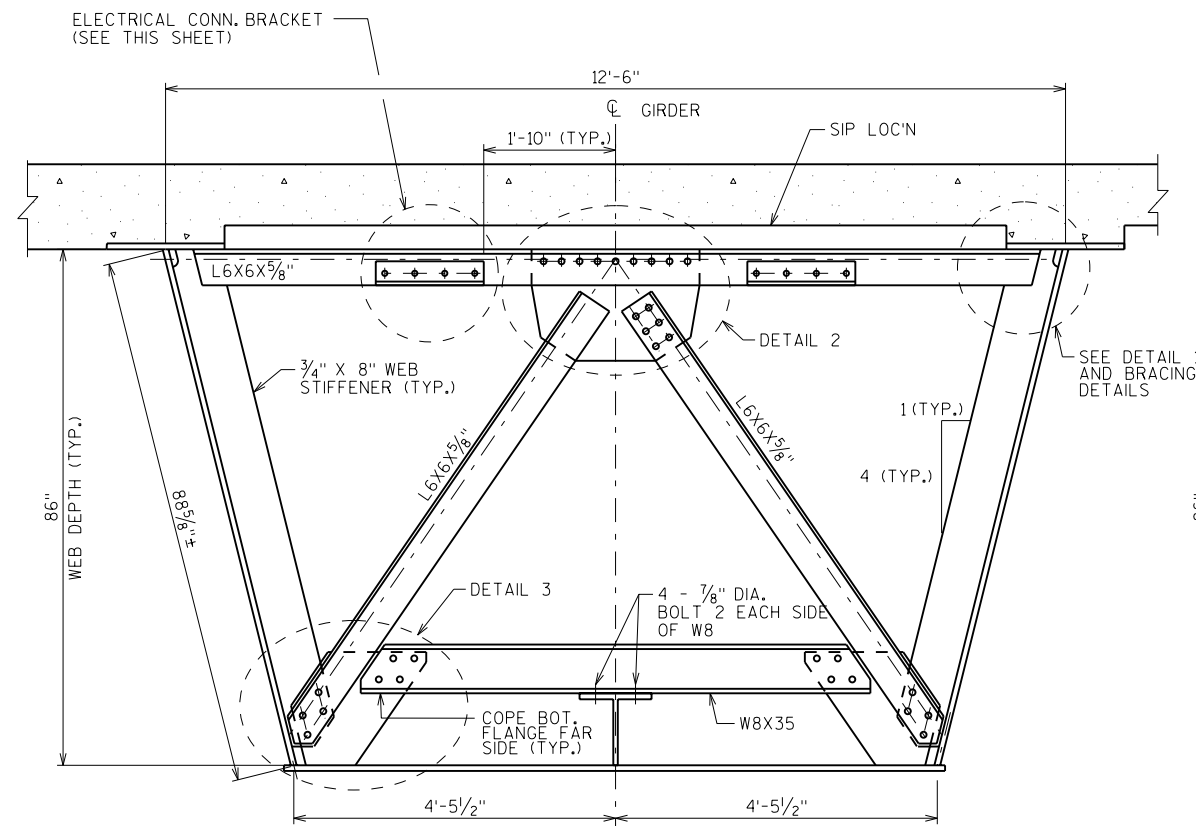
THIS SHEET
(SHEAR STUDS NOT SHOWN FOR CLARITY)

STIFFENER TO FLANGE DETAIL

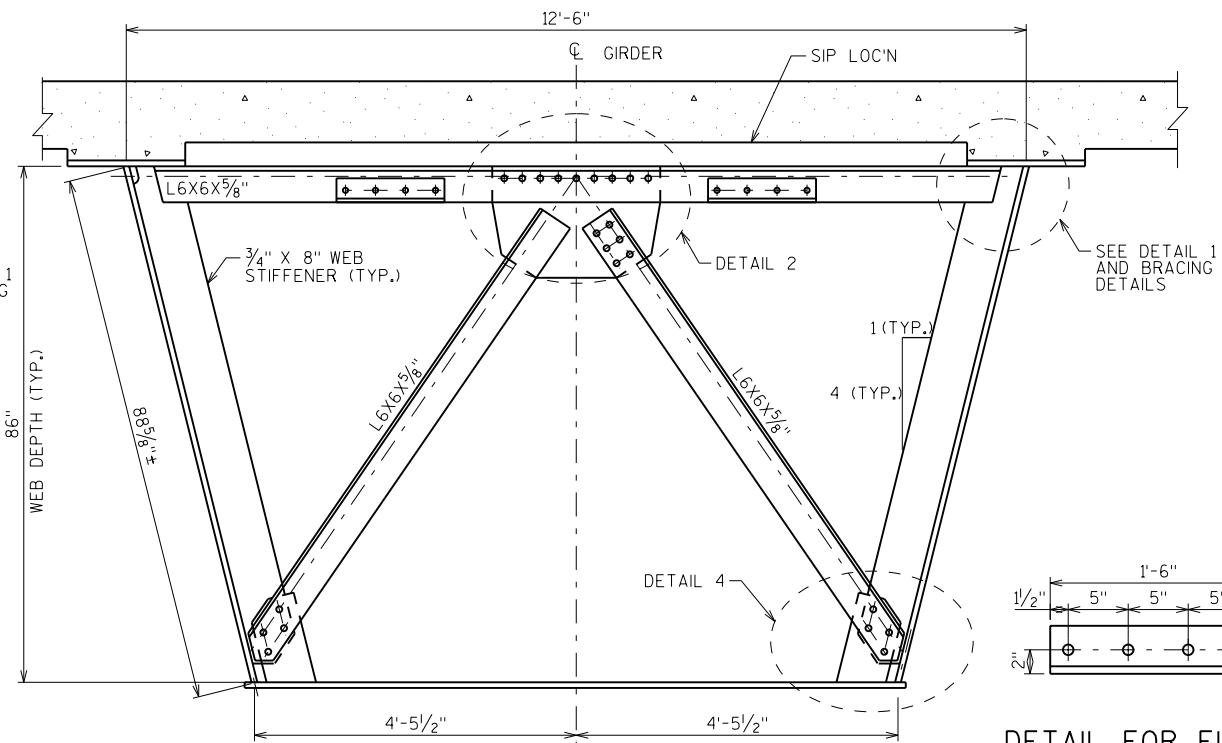
ALL DIAPHRAGMS AND ALL STIFFENERS
NO WELD AT TOP OF STIFFENERS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
MISCELLANEOUS DIAPHRAGM DETAILS			SHEET 29 OF 51

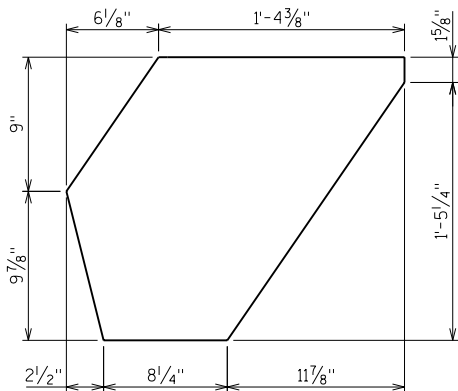
STEEL FABRICATION CONTRACT ONLY



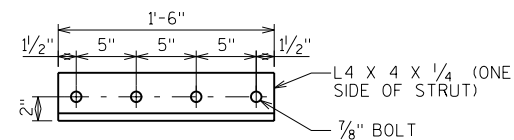
TYPICAL SECTION AT K-FRAME K1
(DETAIL WITH LONGITUDINAL STIFFENER)



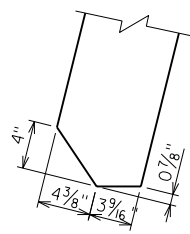
TYPICAL SECTION AT K-FRAME K1
(DETAIL WITHOUT LONGITUDINAL STIFFENER)



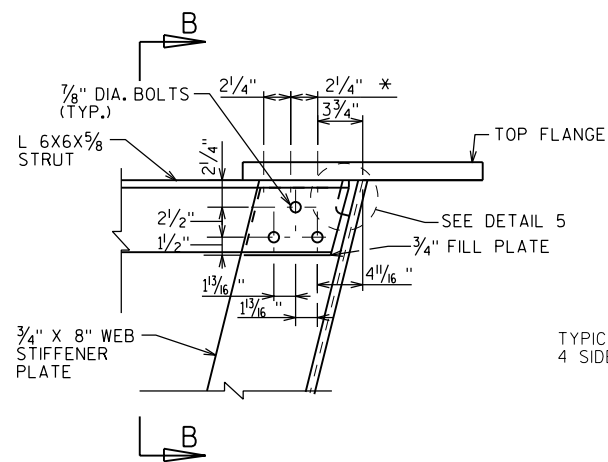
PL 3/4" DETAIL



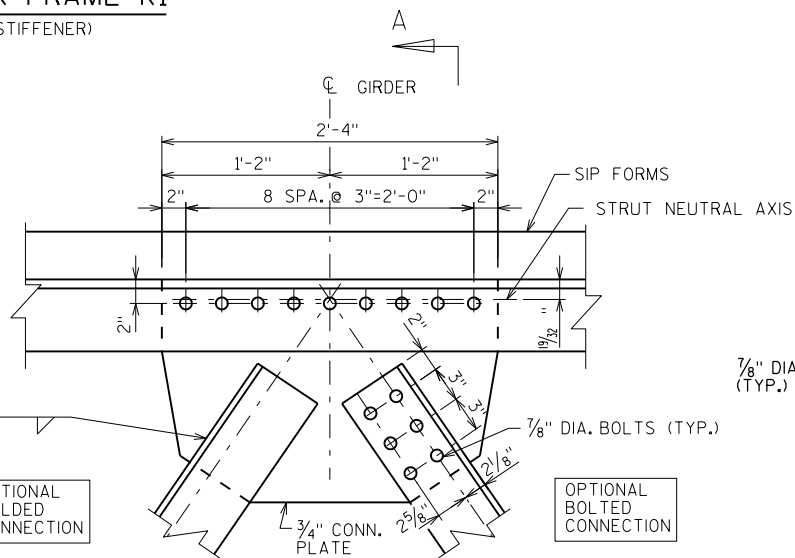
DETAIL FOR ELECTRICAL
CONNECTION BRACKET



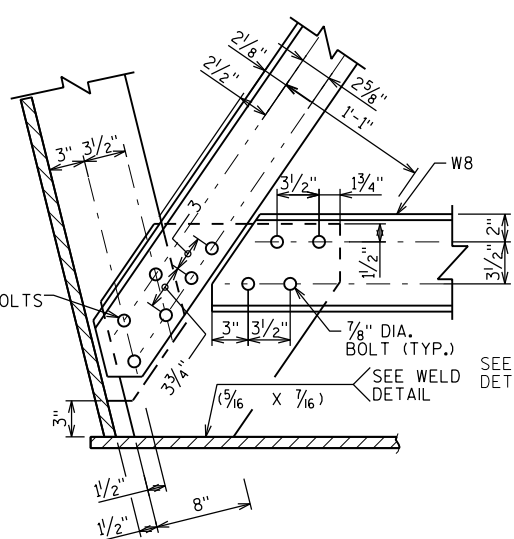
WEB STIFFENER DETAIL



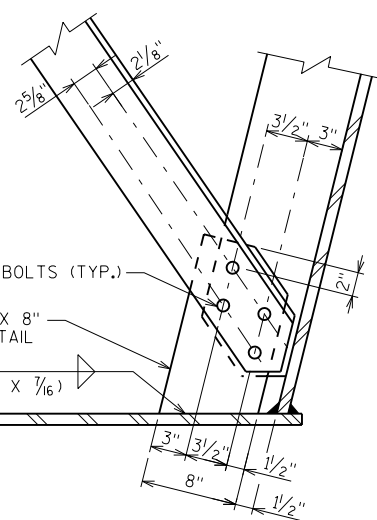
DETAIL 1



DETAIL 2

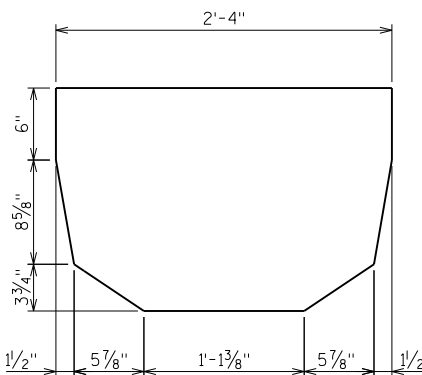


DETAIL 3



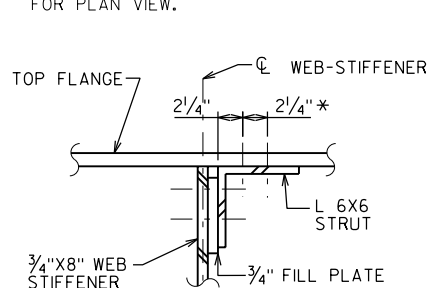
DETAIL 4

(DETAIL FOR CROSS FRAMES WITHOUT
BOTTOM CHORD)

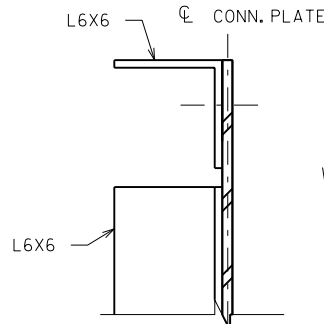


3/4" CONN. PLATE DETAIL

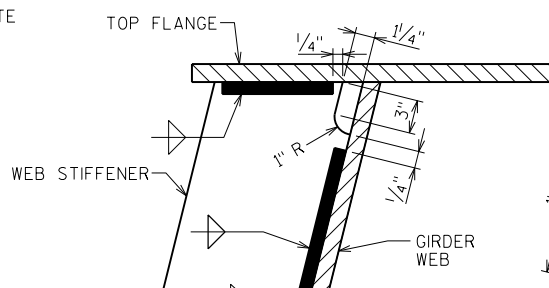
* BOLT SPACING FOR STRUT
TO TOP FLANGE CONNECTION.
SEE BRACING DETAILS SHEET
FOR PLAN VIEW.



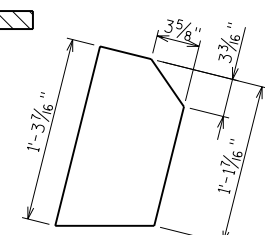
SECTION B-B



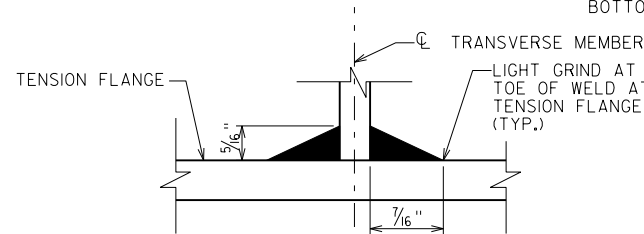
SECTION A-A



DETAIL 5



PL 3/4"X8" DETAIL

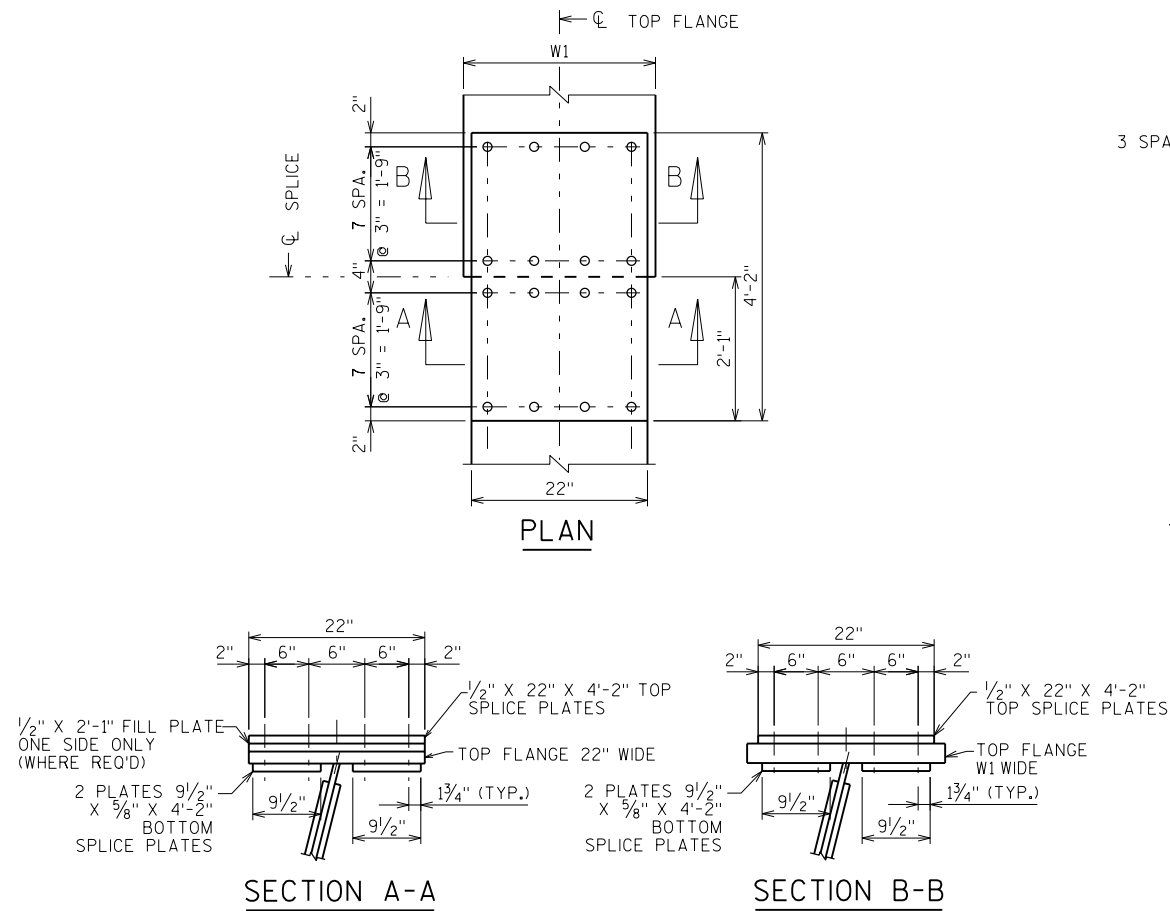


TRANSVERSE WELD TO TENSION FLANGE DETAIL

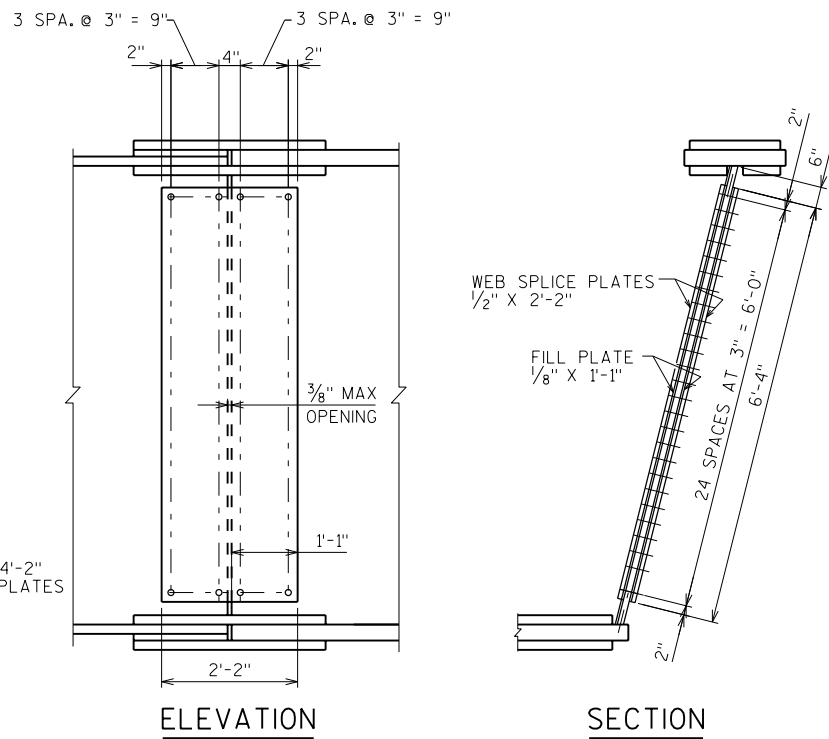
TYP. FOR ANY TENSION FLANGE (BOTTOM FLANGE SHOWN)

STEEL FABRICATION CONTRACT ONLY

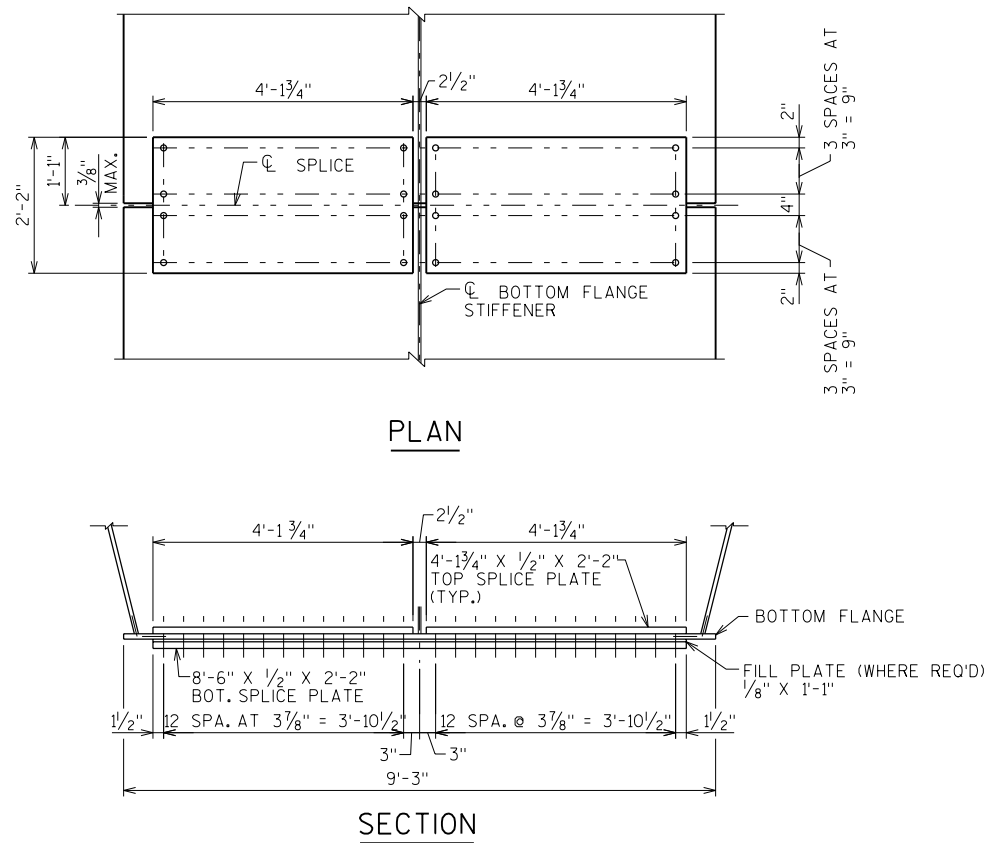
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
INTERIOR CROSS FRAME K1 DETAILS		SHEET 31 OF 51	



TYPICAL TOP FLANGE CONNECTION



TYPICAL WEB CONNECTION



TYPICAL BOTTOM FLANGE CONNECTION

FIELD SPlice NO.	VARIABLE DIMENSIONS	
	W1 (IN)	
1	24	
2	24	
3	26	
4	26	
5	26	
6	26	
7	24	
8	24	
9	24	
10	24	
11	26	
12	26	
13	26	
14	26	
15	24	
16	24	

NOTES:

ALL BOLTS SHOWN ARE 7/8" DIAMETER
ASTM A325 TYPE 1.

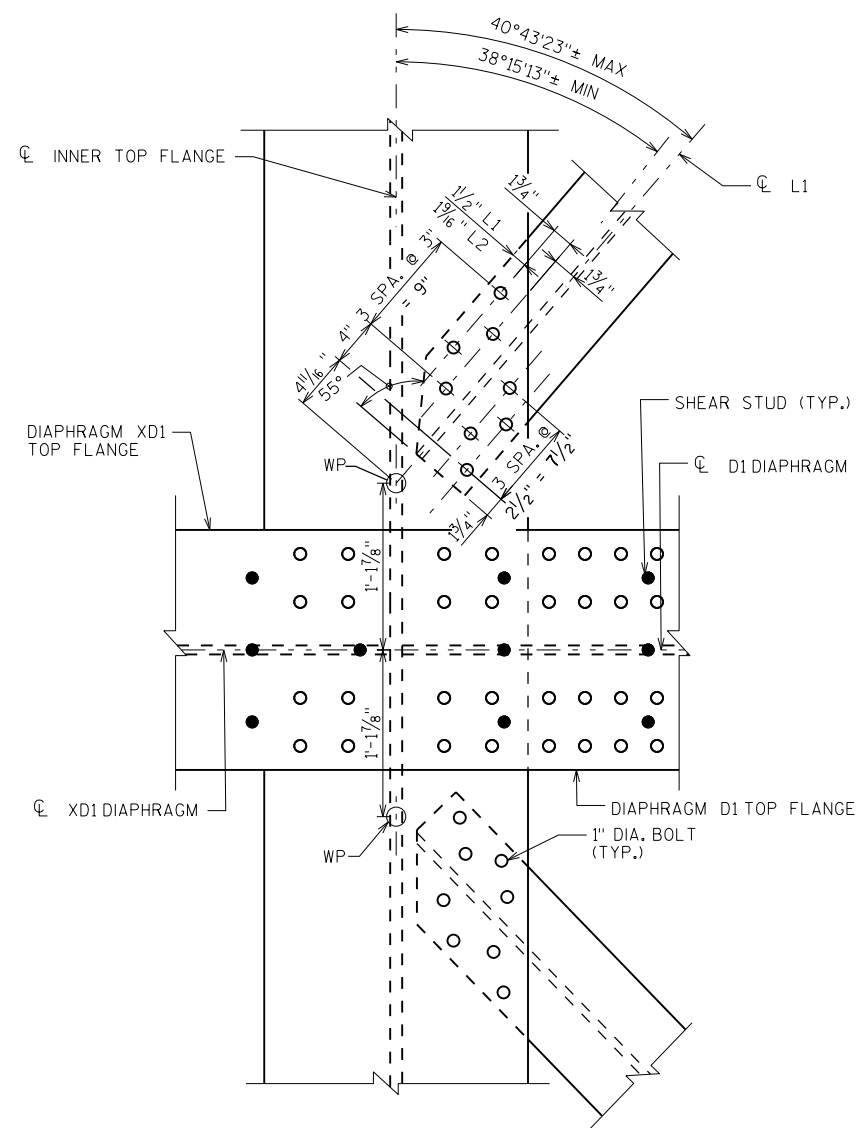
ALL HOLES SHALL BE STANDARD DIAMETER
NO OVERSIZE HOLES.

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

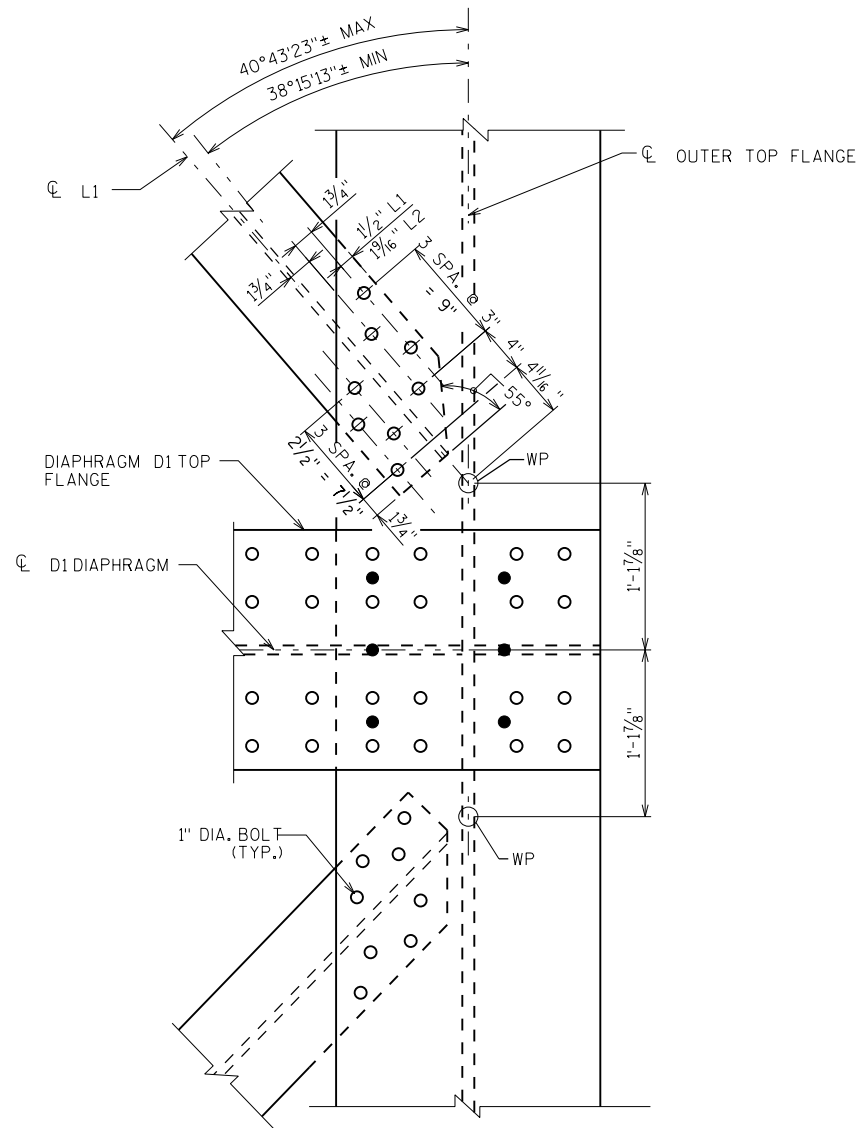
ALL SPLICE PLATES SHALL BE ASTM A709
GRADE HPS 50W.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY JRS		PLANS CK'D. NPP	
FIELD SPLICE DETAILS		SHEET 32 OF 51	

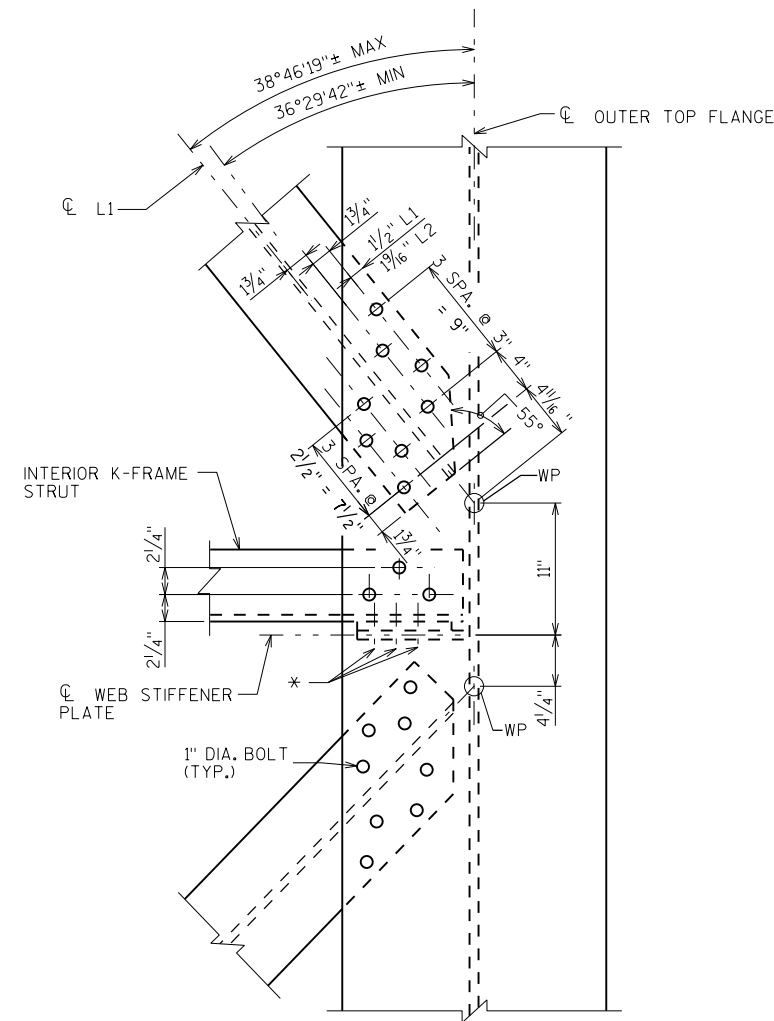
STEEL FABRICATION CONTRACT ONLY



PLAN VIEW AT DIAPHRAGM XD1/D1

(SHOWING INNER TOP FLANGE)
(XD4/D4 SIMILAR)

PLAN VIEW AT DIAPHRAGM XD1/D1

(SHOWING OUTER TOP FLANGE)
(XD4/D4 SIMILAR)

PLAN VIEW AT K-FRAME

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

NOTES:

LATERAL BRACE L1 SHALL BE CONNECTED TO THE
DIAPHRAGM TOP FLANGE AND GIRDER TOP FLANGE
WITH 8-1" DIAMETER BOLTS.

NOTES:

SEE GIRDER PLAN AND ELEVATION SHEETS
FOR LOCATIONS OF DETAILS.

LATERAL BRACE MEMBERS:

L1: WT7X34

* SEE INTERIOR CROSS FRAME K-1 DETAILS
SHEET FOR ADDITIONAL DETAILS FOR
BOLTED CONNECTION THROUGH STRUT ANGLE
LEG TO WEB STIFFENER.

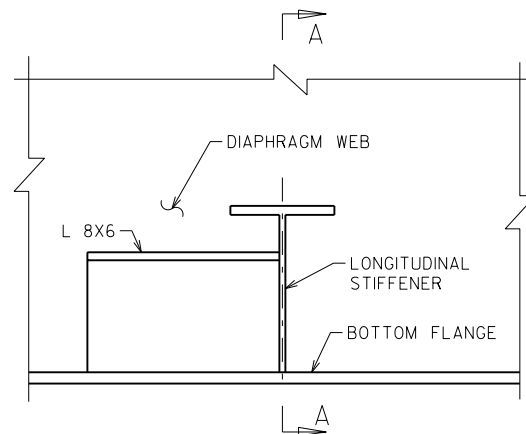
STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY KJZ		PLANS CK'D. NPP	
BRACING CONNECTION DETAILS SHEET 1			SHEET 33 OF 51

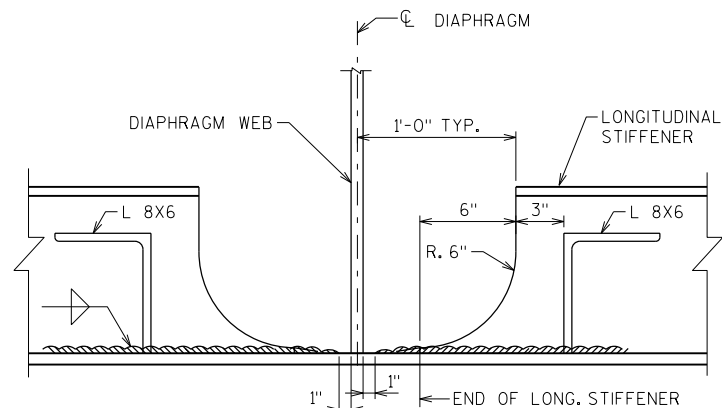


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY KJZ		PLANS CK'D. NPP	
BRACING CONNECTION DETAILS SHEET 2		SHEET 34 OF 51	

STEEL FABRICATION CONTRACT ONLY

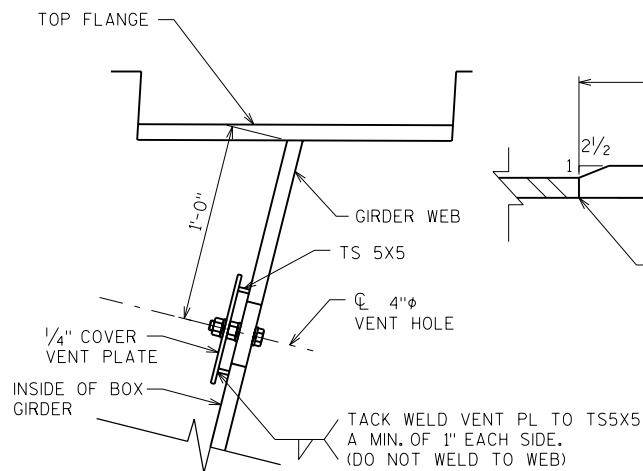


**STIFFENER TERMINATION
AT INTERIOR DIAPHRAGM**

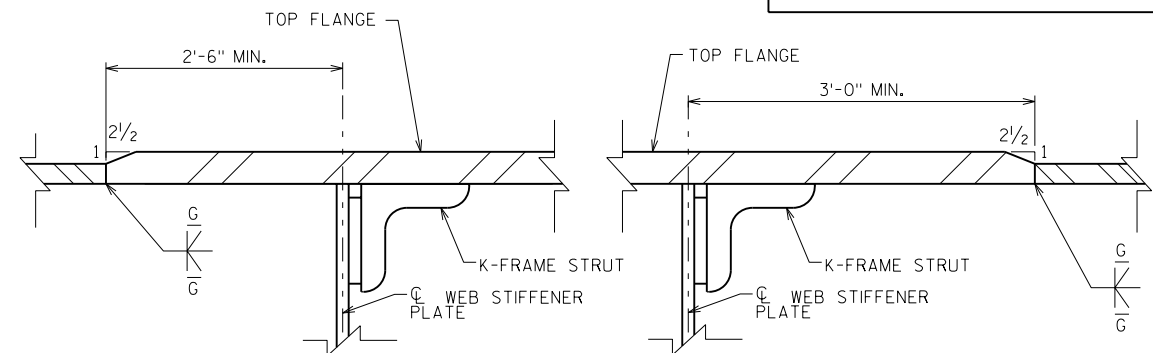


SECTION A-A

FOR MORE INFORMATION AND DETAILS SEE
MISCELLANEOUS GIRDER DETAILS SHEET 2

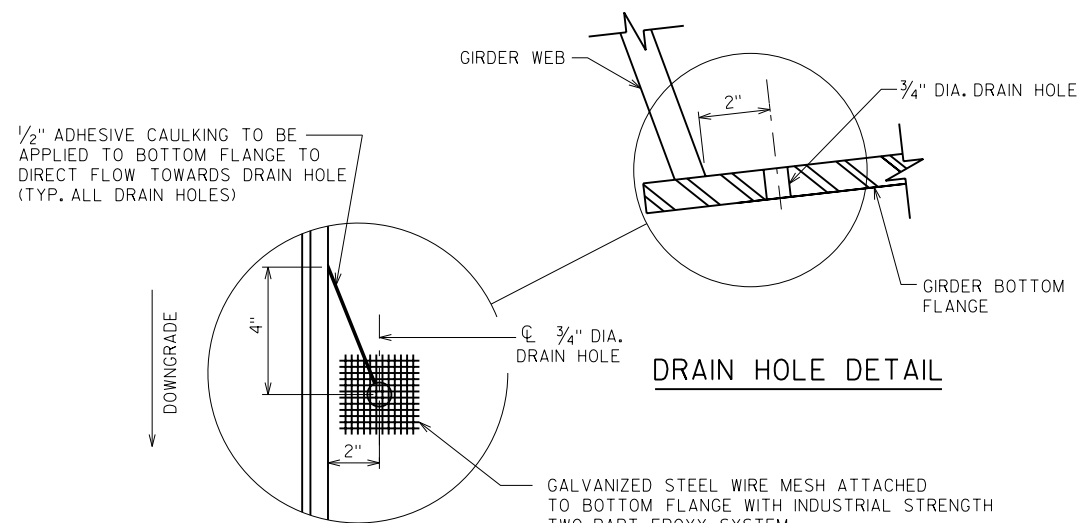


VENT HOLE LOCATION



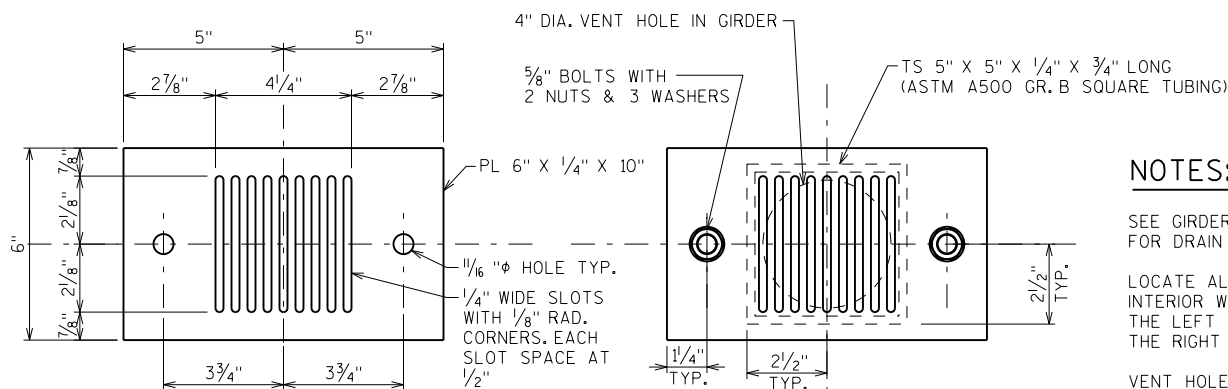
FLANGE THICKNESS TRANSITION DETAIL

NOT TO SCALE



DRAIN HOLE DETAIL

PLAN OF DRAIN HOLES



COVER VENT PLATE

INSIDE FACE

VENT HOLE COVER ASSEMBLY

NOT TO SCALE

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.

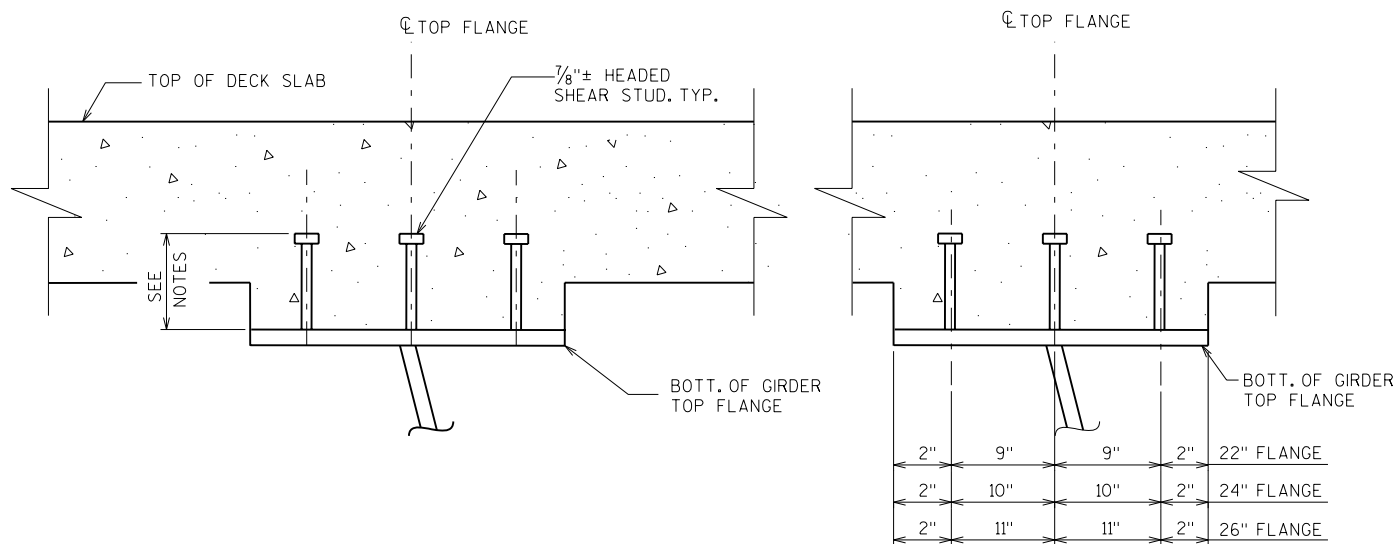
LOCATE ALL DRAIN HOLES ON THE LOW
SIDE OF THE GIRDER AS SHOWN.

COST OF ADHESIVE CAULKING, WIRE MESH
AND ATTACHMENT IS INCLUDED IN THE COST
OF "FABRICATED STRUCTURAL STEEL HPS 50W
B-5-679".

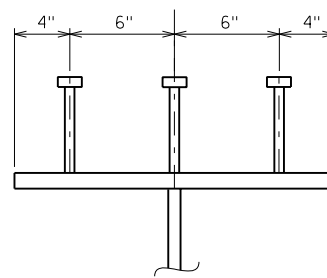
SHEAR STUD CONNECTORS ARE SHOWN FOR
REFERENCE ONLY AND ARE NOT FURNISHED
OR INSTALLED AS PART OF THIS CONTRACT.

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

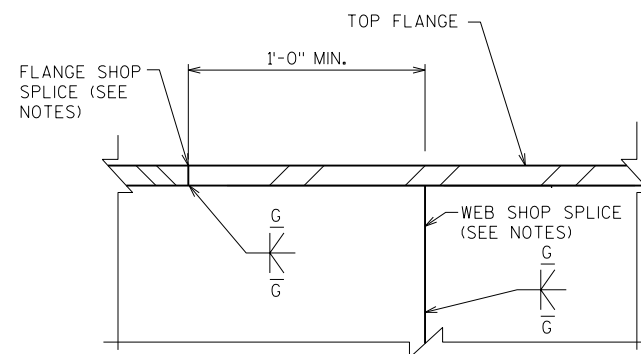
FOR WEB PLATES WITH LENGTHS MORE THAN
90'-0", ONE OPTIONAL WELDED SHOP SPLICE
IS ALLOWED PER FIELD SECTION, FOR ALL
FLANGE PLATES, A MAXIMUM OF TWO OPTIONAL
WELDED SHOP SPLICES IS ALLOWED PER FIELD
SECTION, NO ADDITIONAL PAYMENT WILL BE
MADE FOR OPTIONAL WELDED SHOP SPLICES
OR FOR SHOP SPLICES AS REQUIRED DUE TO
MAXIMUM PLATE LENGTH AVAILABILITY FROM
THE MILL.



SHEAR STUD DETAIL



**SHEAR STUD DETAIL
AT DIAPHRAGM**

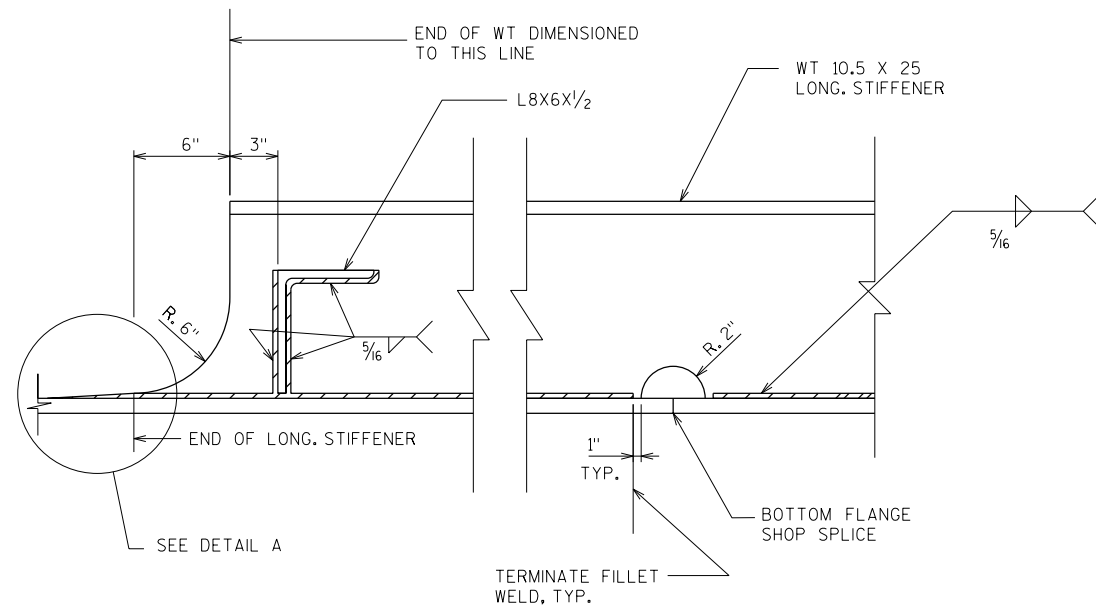


OPTIONAL SHOP SPLICE DETAIL

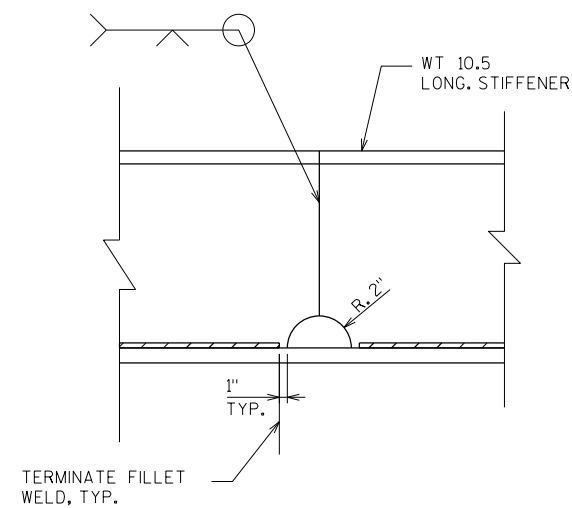
NOT TO SCALE
(SEE FLANGE THICKNESS TRANSITION DETAIL FOR
MINIMUM SPACING OF SHOP SPLICES TO STIFFENERS AND
K-FRAMES)

STEEL FABRICATION CONTRACT ONLY

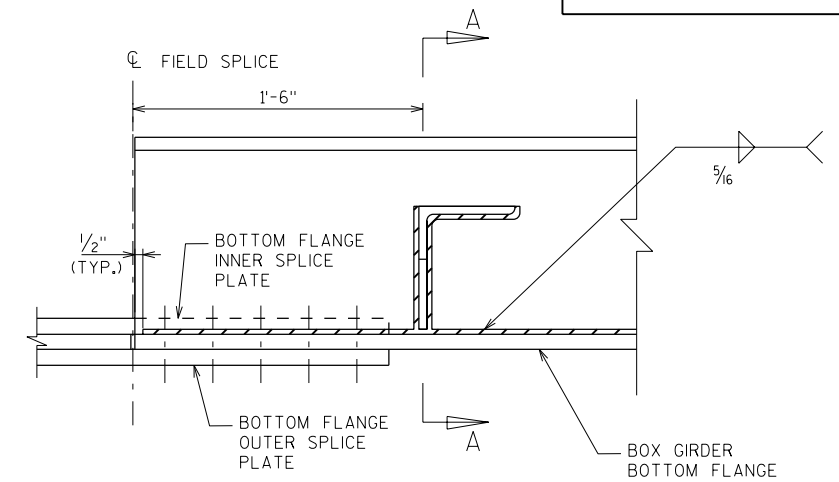
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
MISCELLANEOUS GIRDER DETAILS SHEET 1		SHEET 35 OF 51	



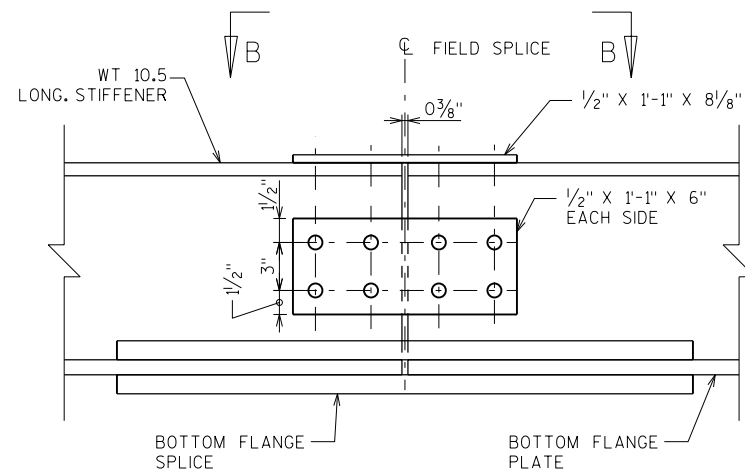
**BOTTOM FLANGE LONGITUDINAL STIFFENER
TYPICAL TERMINATION DETAIL**



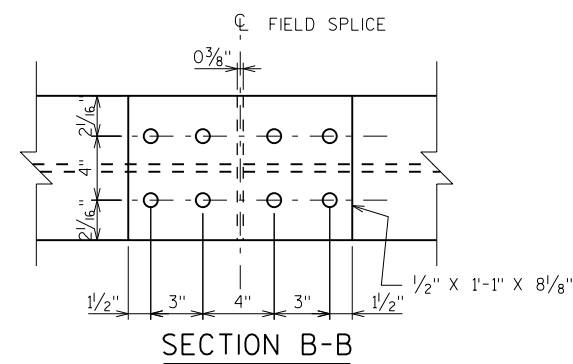
**BOTTOM FLANGE
LONGITUDINAL STIFFENER SPLICE**



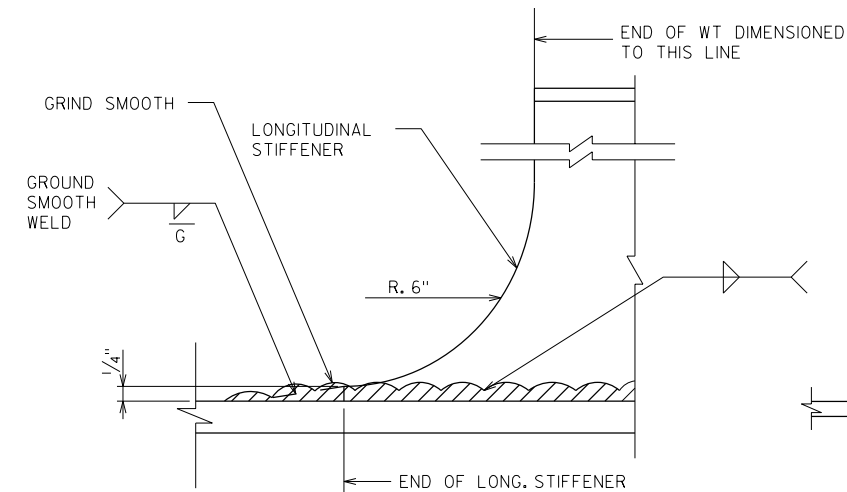
**BOTTOM FLANGE LONGITUDINAL STIFFENER
TERMINATION DETAIL AT GIRDER FIELD SPLICE**



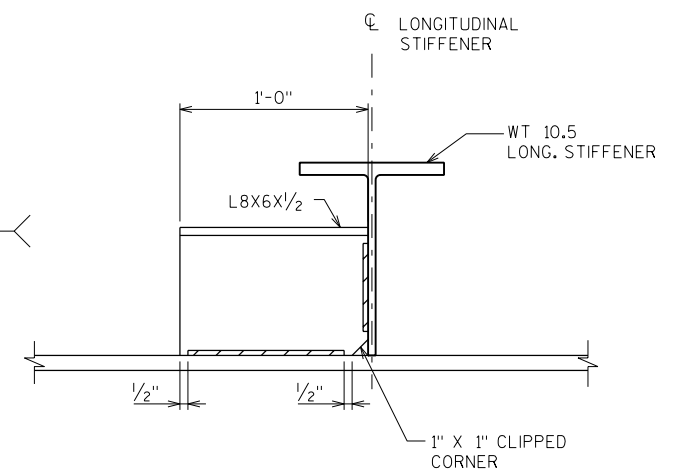
**BOTTOM FLANGE LONGITUDINAL
STIFFENER FIELD SPLICE DETAIL**



SECTION B-B

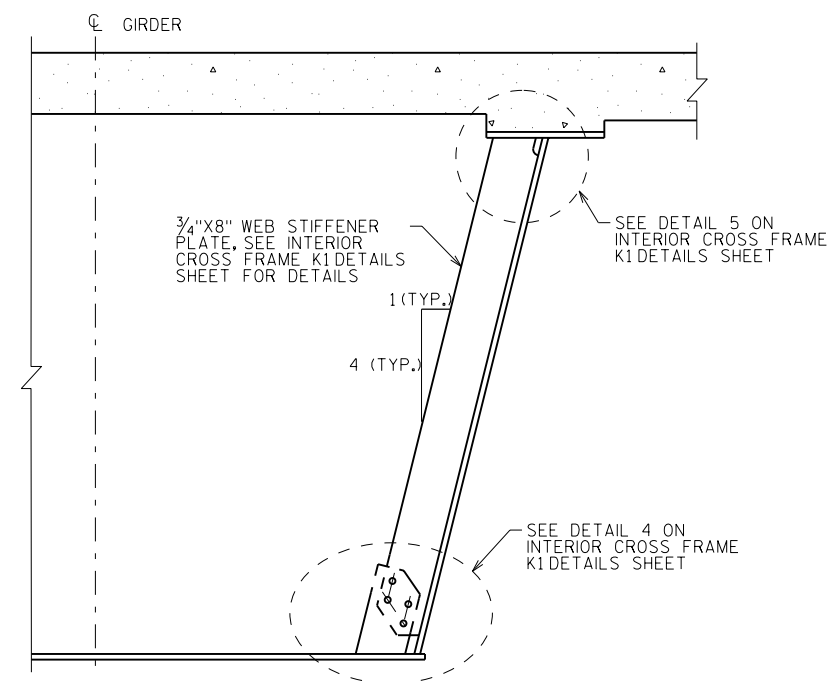


DETAIL A



SECTION A-A

**BOTTOM FLANGE LONGITUDINAL
STIFFENER TERMINATION DETAIL**



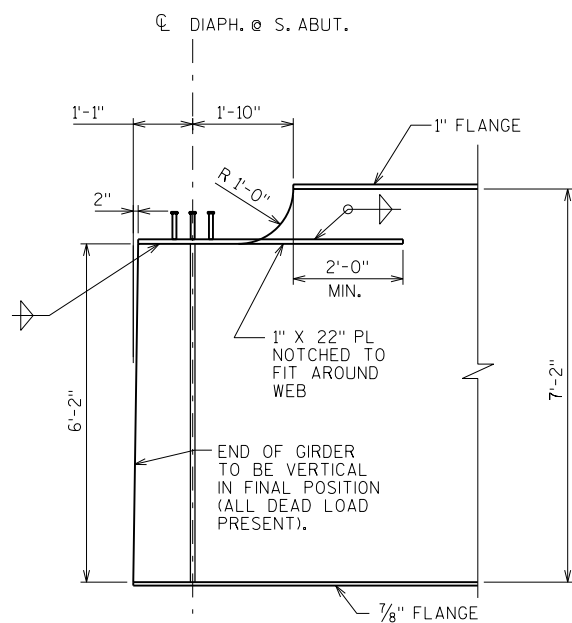
**TYPICAL SECTION AT INTERMEDIATE WEB STIFFENER
(HALF-SECTION SHOWN)**

NOTES:

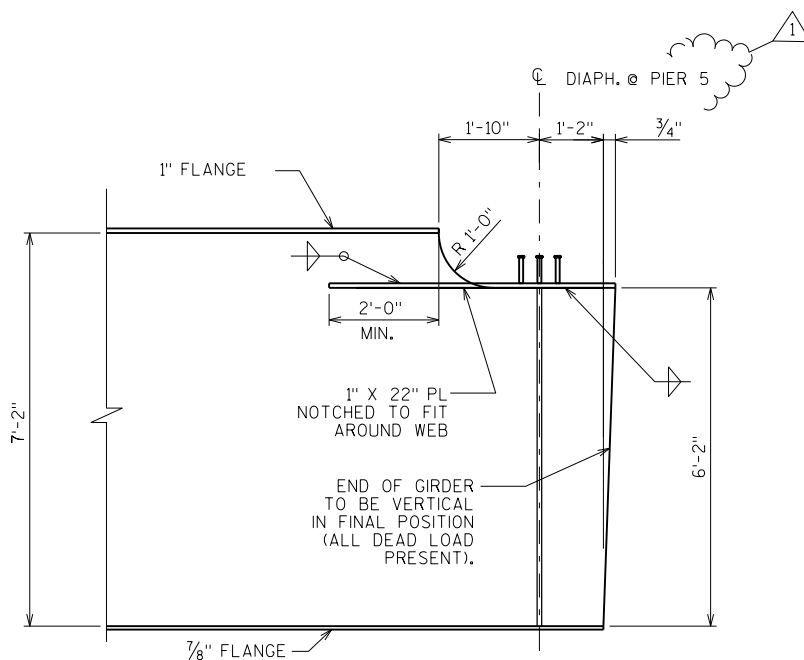
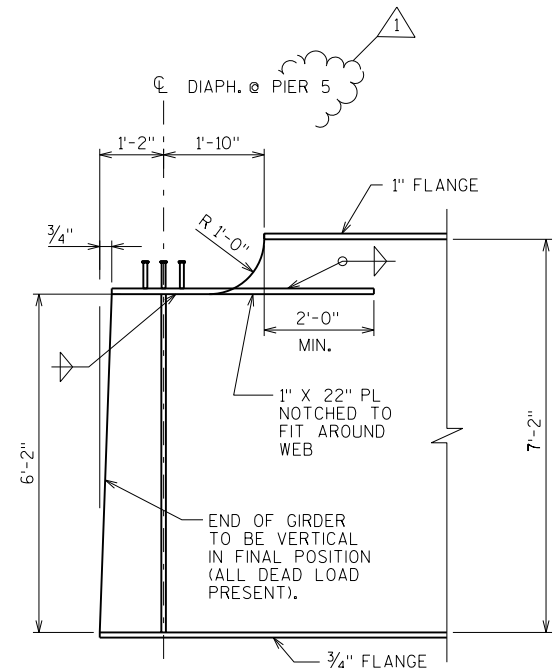
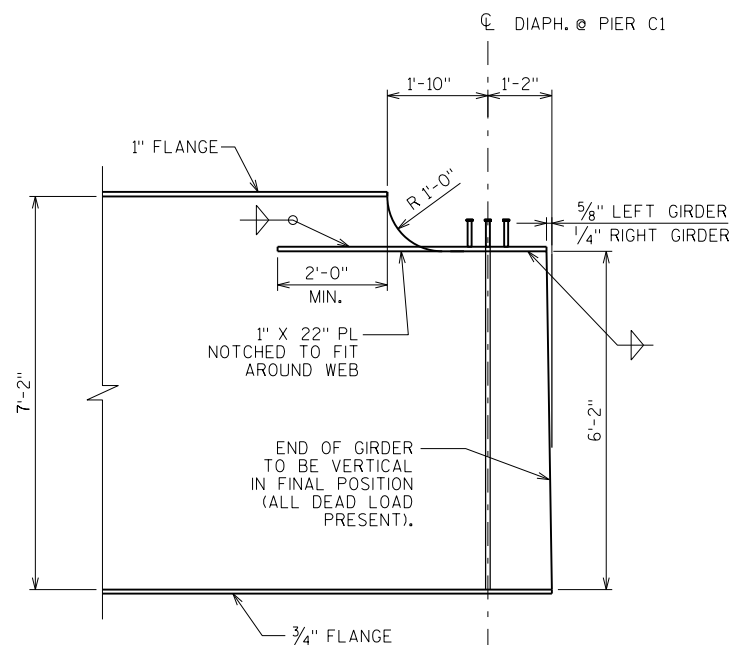
FOR NOTES SEE MISCELLANEOUS
GIRDER DETAILS SHEET.

STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
MISCELLANEOUS GIRDER DETAILS SHEET 2		SHEET 36 OF 51	

**UNIT 1 SPAN 1**

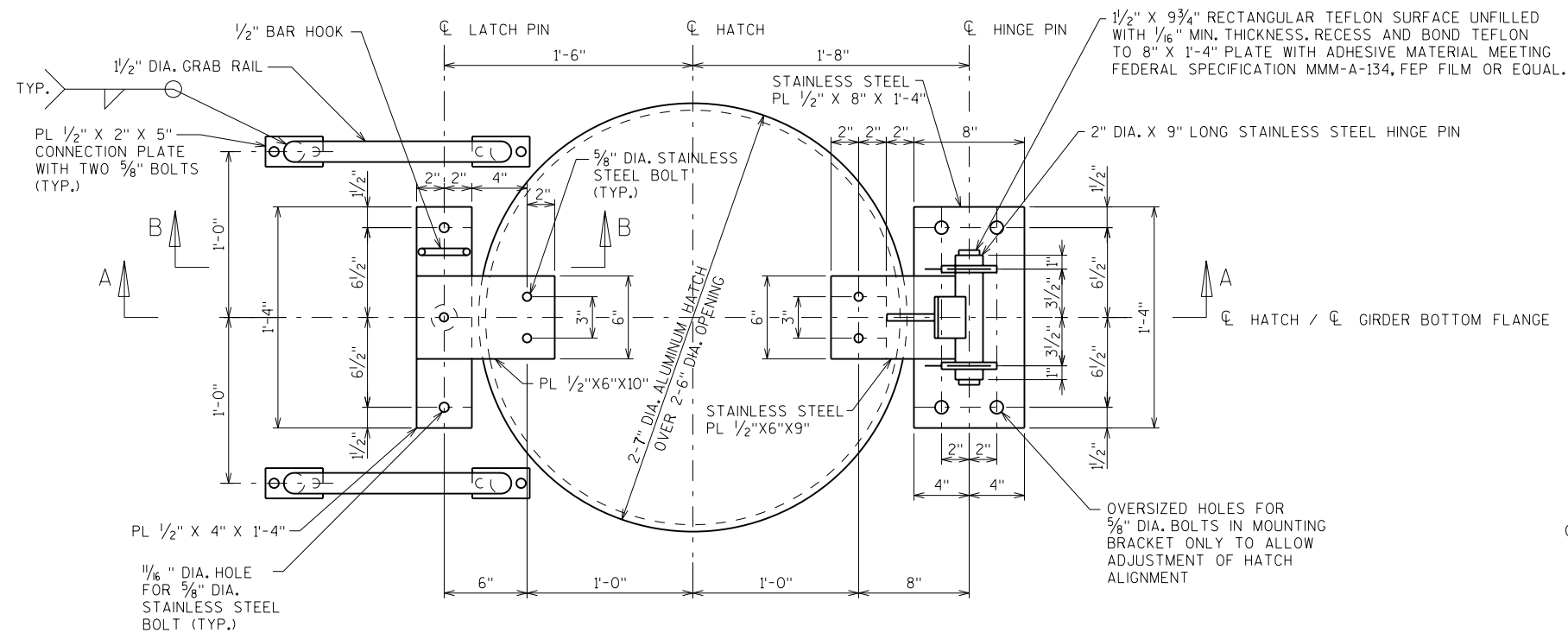
(GIRDER IS PARALLEL TO VERTICAL CURVE)

**UNIT 1 SPAN 5****UNIT 2 SPAN 6****UNIT 2 SPAN 10****NOTE:**

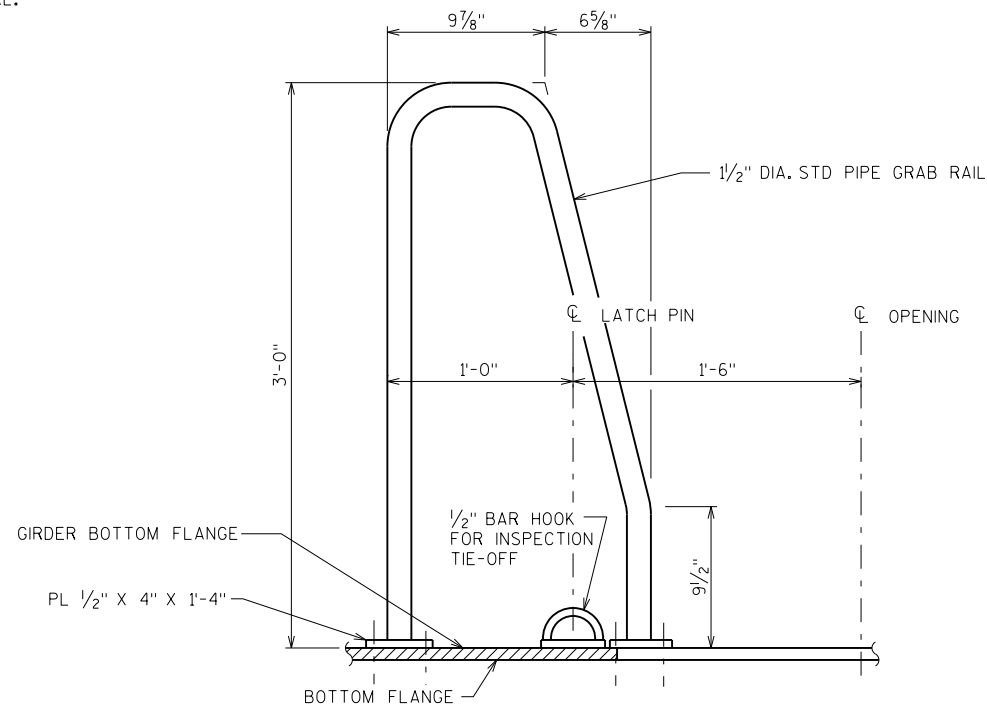
GIRDER FLANGES ARE NOT HORIZONTAL, BUT PARALLEL TO VERTICAL CURVE. DIAPHRAGMS ARE PERPENDICULAR TO GIRDERS FLANGES. ONLY ENDS OF GIRDER WEBS ARE VERTICAL.

1	REVISED CALL OUTS FOR PIER 5	PMV
NO.	DATE	REVISION
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION		
STRUCTURE B-5-679		
DRAWN BY	KJZ	PLANS CK'D. NPP
MISCELLANEOUS GIRDER DETAILS		SHEET 37 OF 51
SHEET 3		

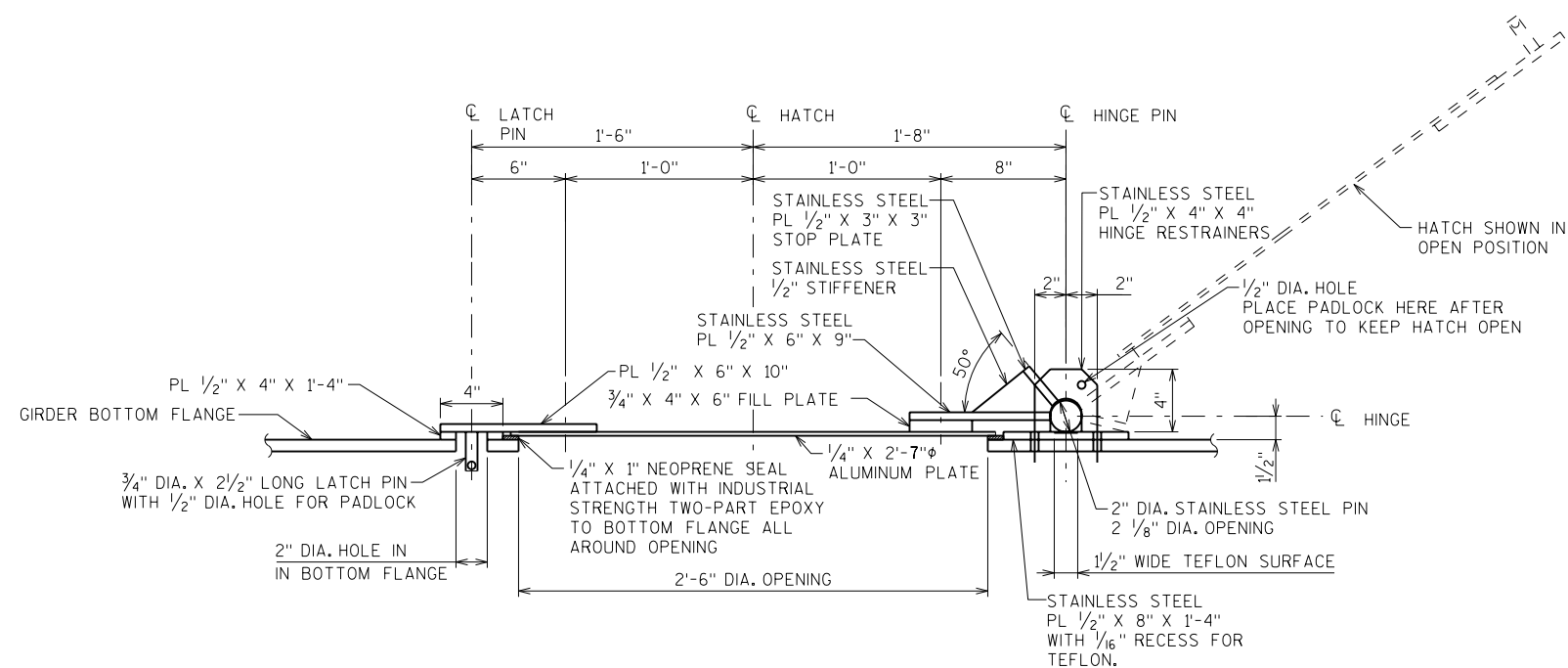
STEEL FABRICATION CONTRACT ONLY



PLAN



SECTION B-B



SECTION A-A

NOTES:

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

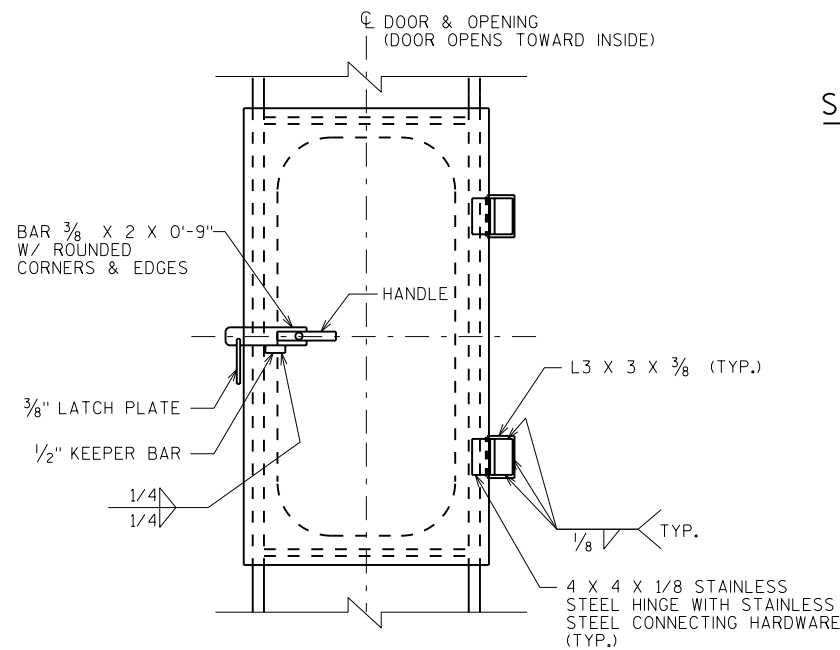
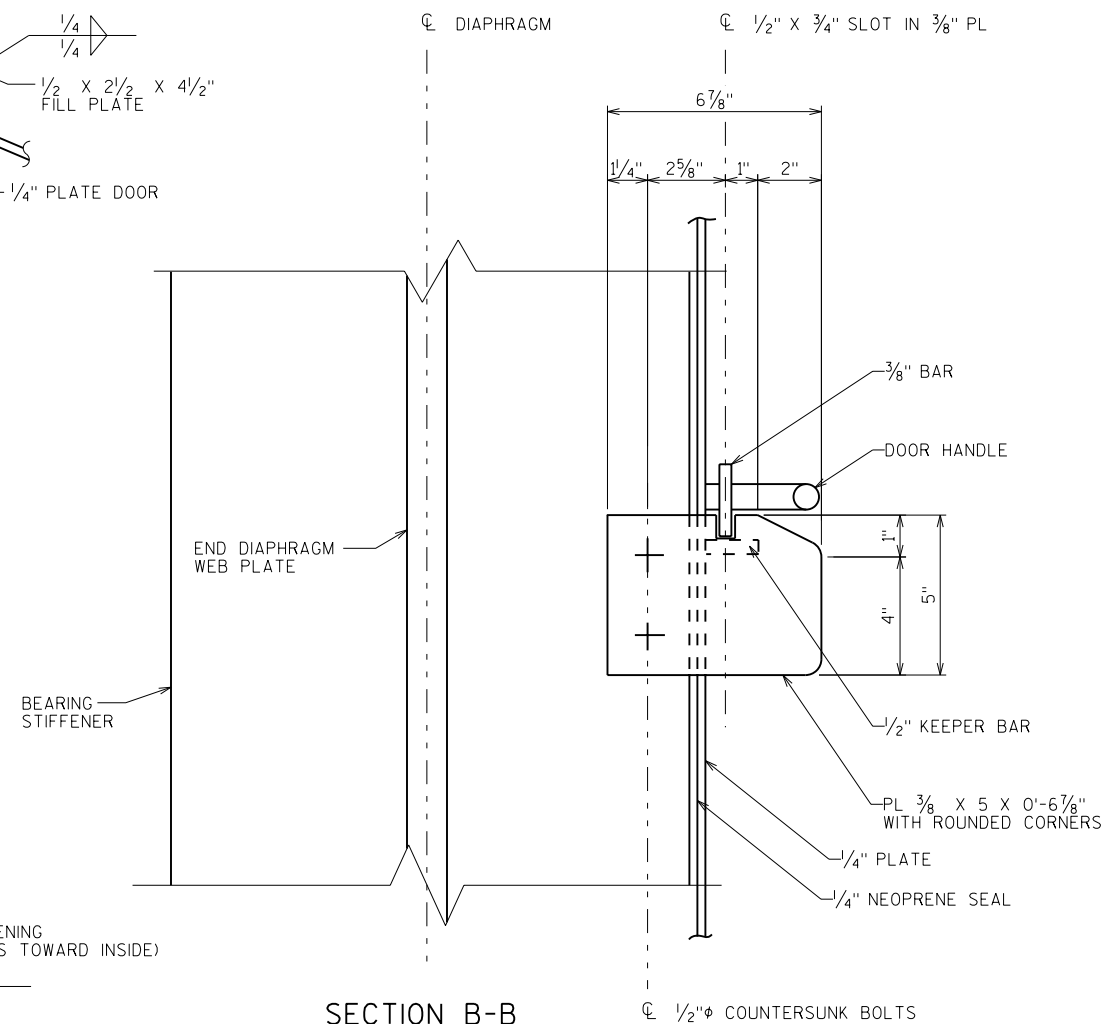
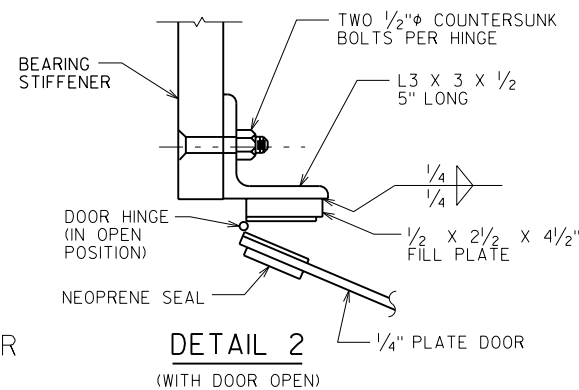
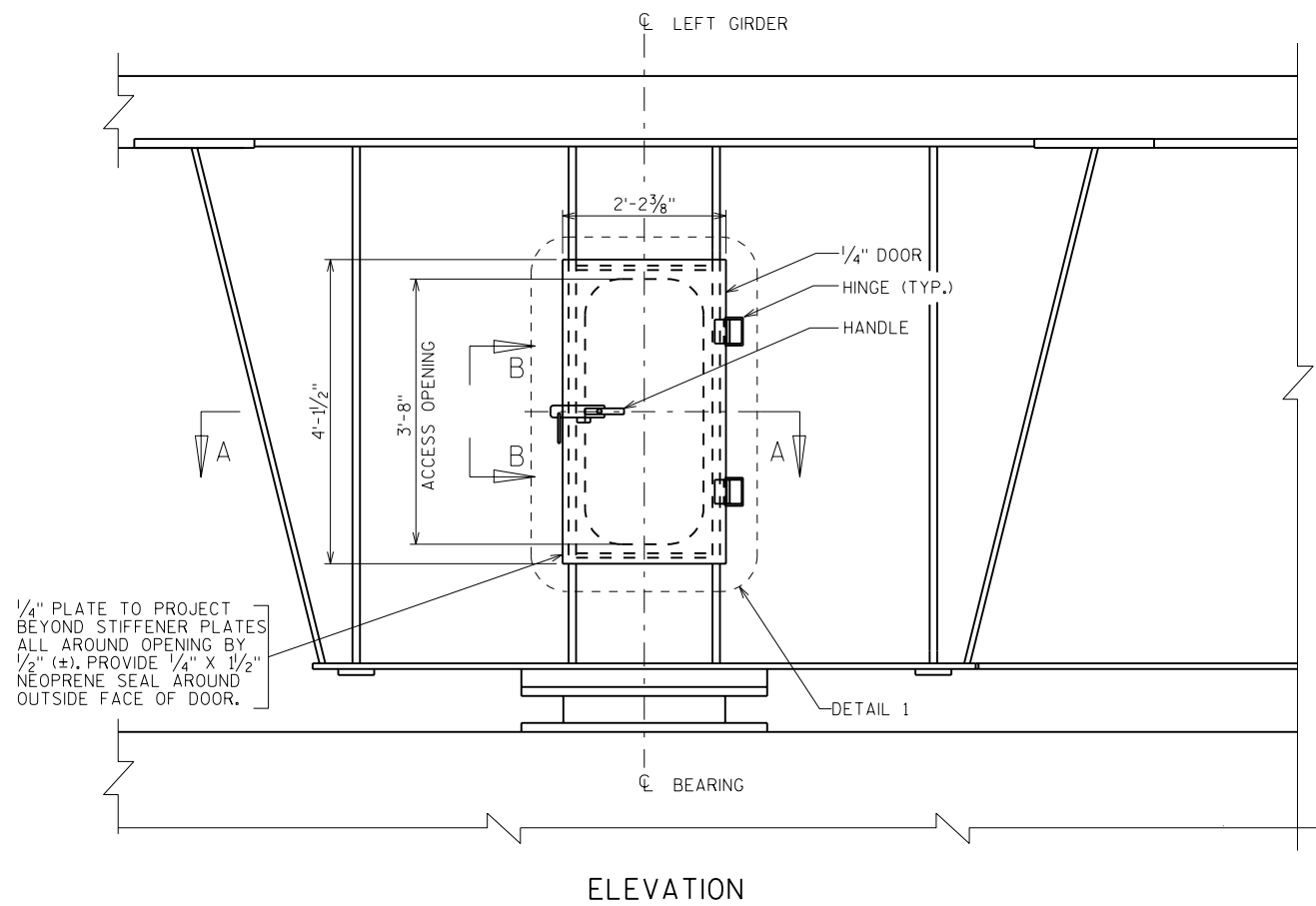
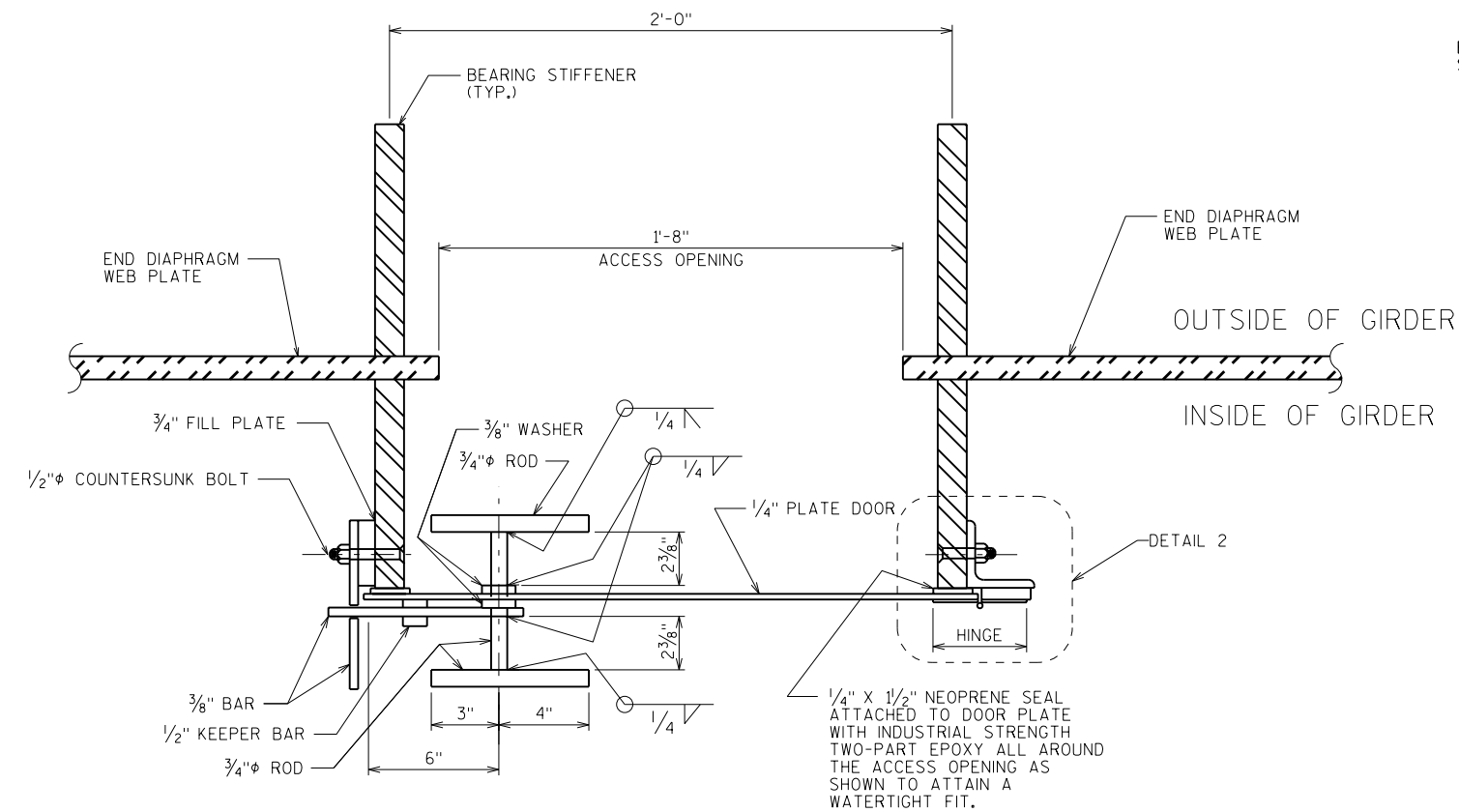
FOUR ACCESS HATCHES REQUIRED. SEE GIRDER PLAN AND ELEVATION SHEETS FOR HATCH LOCATIONS IN SPANS 4 AND 10.

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 B-5-679".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
ACCESS HATCH DETAILS			SHEET 38 OF 51

STEEL FABRICATION CONTRACT ONLY



NOTES:

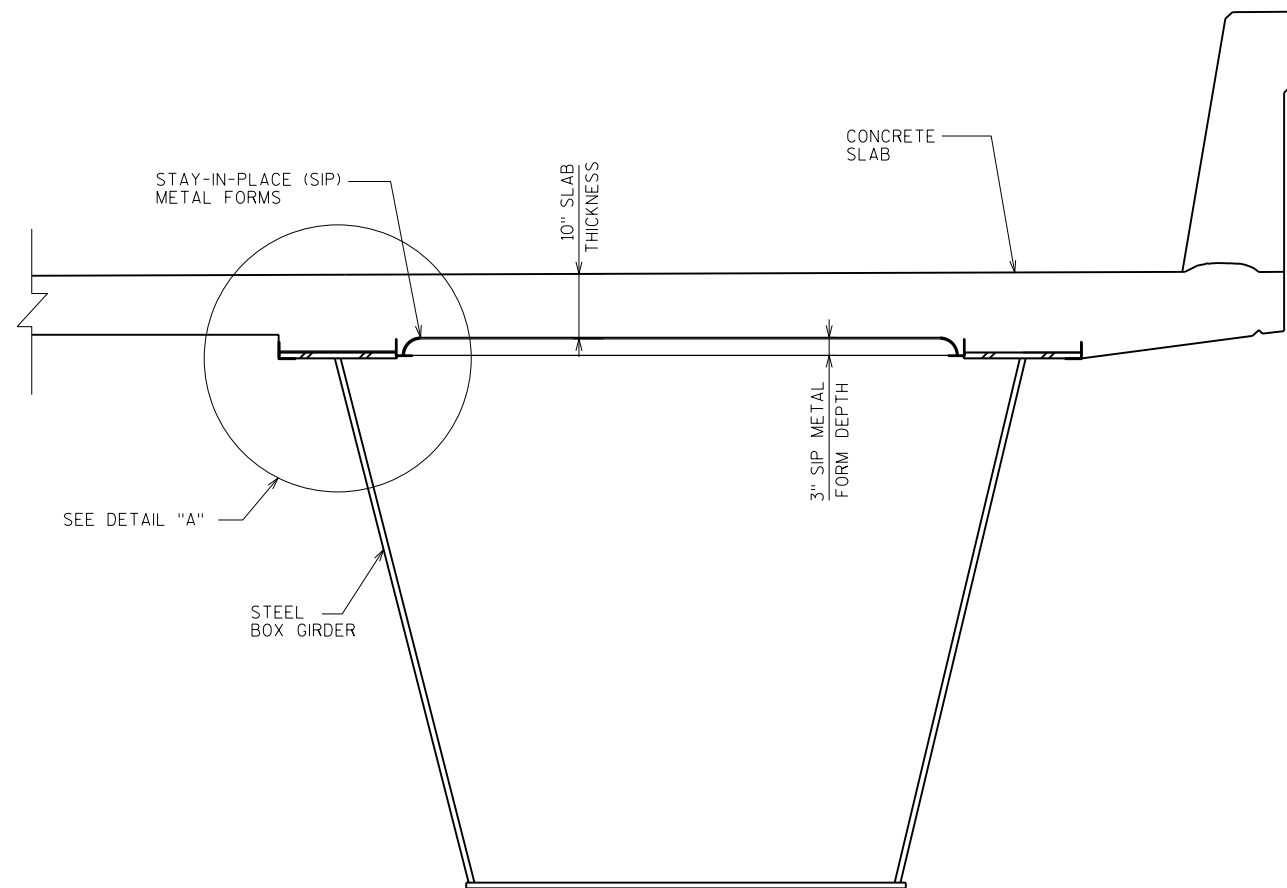
8 DOORS TOTAL REQUIRED:
4 AT PIER 3
4 AT PIER 8

DOORS OPEN TOWARDS THE INSIDE OF
THE BOX GIRDERS.

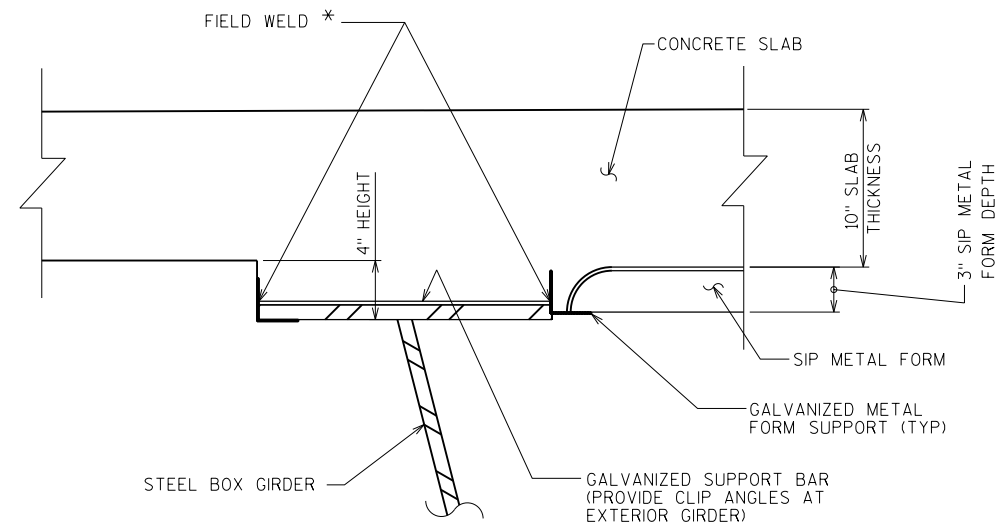
THE COST OF ACCESS DOOR AND ITS
ATTACHMENT IS INCLUDED IN THE COST
OF "FABRICATED STRUCTURAL STEEL HS
B-5-679".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
ACCESS DOOR DETAILS			SHEET 39 OF 51

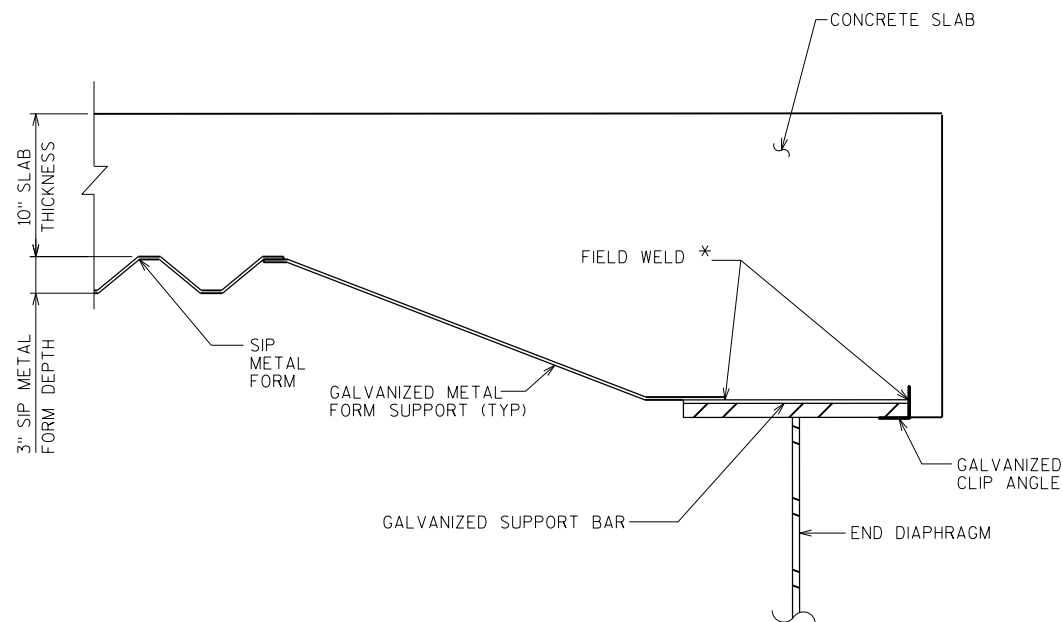
STEEL FABRICATION CONTRACT ONLY

**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.

**PARTIAL SECTION THROUGH END OF SPAN**

(INTERIOR OF BOXES ONLY)

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-5-679			
DRAWN BY ZMG		PLANS CK'D. NPP	
SUPERSTRUCTURE DETAILS			SHEET 40 OF 51

STEEL FABRICATION CONTRACT ONLY

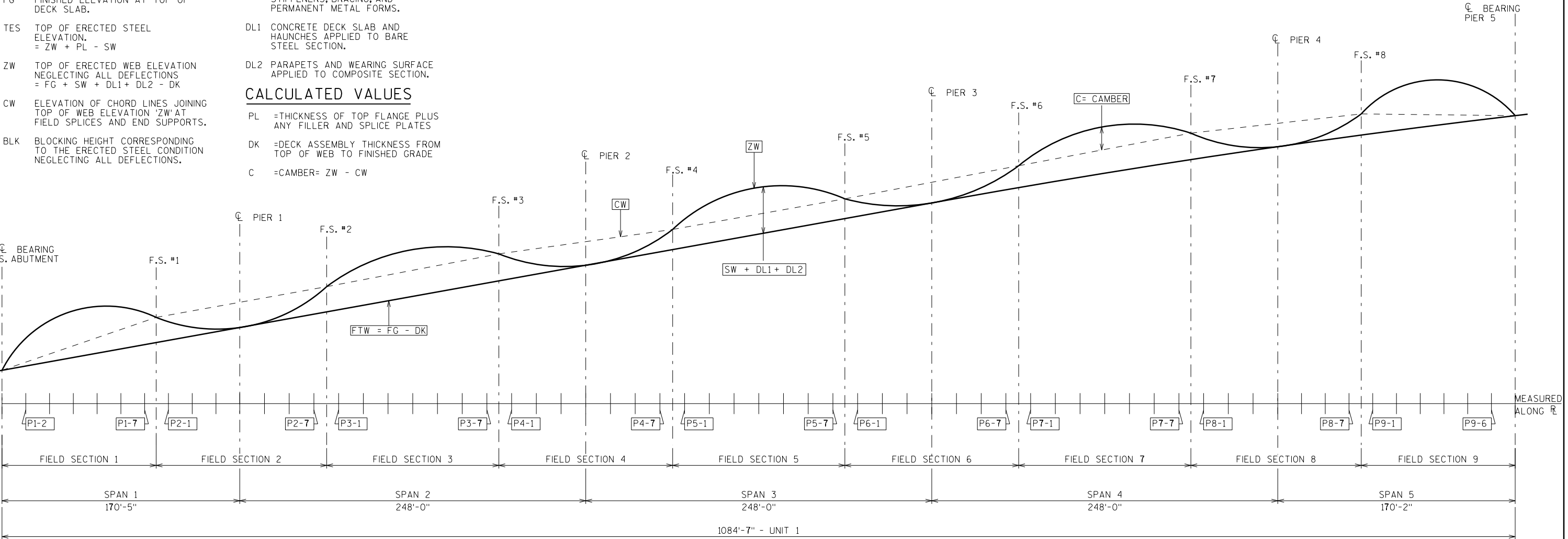
TABULATED ELEVATIONS

FTW FINISHED ELEVATION AT TOP OF WEB.
FG FINISHED ELEVATION AT TOP OF DECK SLAB.
TES TOP OF ERECTED STEEL ELEVATION.
= ZW + PL - SW
ZW TOP OF ERECTED WEB ELEVATION NEGLECTING ALL DEFLECTIONS
= FG + SW + DL1+ DL2 - DK
CW ELEVATION OF CHORD LINES JOINING TOP OF WEB ELEVATION 'ZW' AT FIELD SPLICES AND END SUPPORTS.
BLK BLOCKING HEIGHT CORRESPONDING TO THE ERECTED STEEL CONDITION NEGLECTING ALL DEFLECTIONS.

TABULATED DEFLECTIONS

SW SELF-WEIGHT OF STEEL GIRDERS, INCLUDING ALL DIAPHRAGMS, STIFFENERS, BRACING, AND PERMANENT METAL FORMS.
DL1 CONCRETE DECK SLAB AND HAUNCHES APPLIED TO BARE STEEL SECTION.
DL2 PARAPETS AND WEARING SURFACE APPLIED TO COMPOSITE SECTION.
PL =THICKNESS OF TOP FLANGE PLUS ANY FILLER AND SPLICE PLATES
DK =DECK ASSEMBLY THICKNESS FROM TOP OF WEB TO FINISHED GRADE
C =CAMBER= ZW - CW

CALCULATED VALUES



CAMBER & BLOCKING DIAGRAM

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 MAY PROCEED.

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

LEGEND:

P1-2 INTERMEDIATE ELEVATION POINT AT PANEL POINTS.

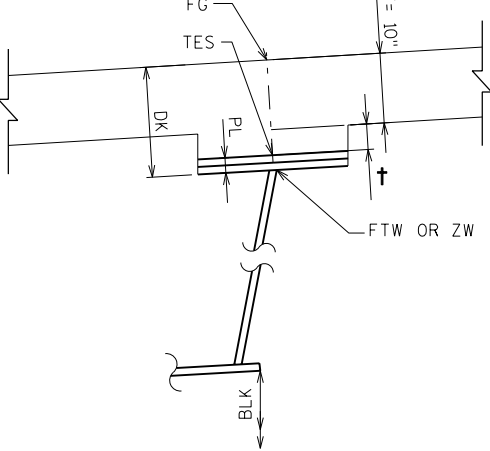
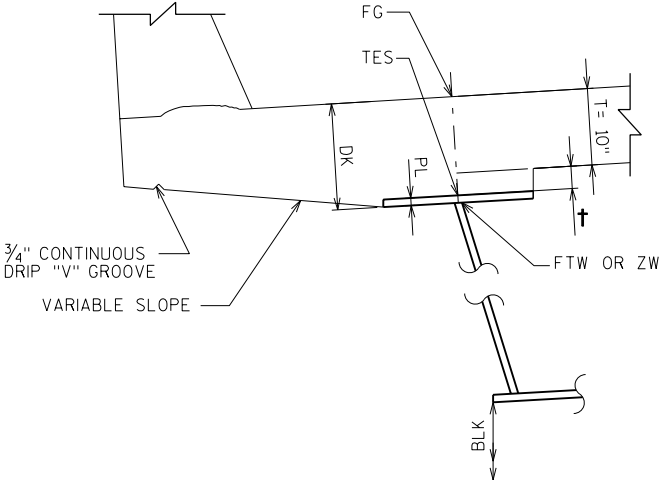
IN THIS EXAMPLE, '1' IS THE FIELD SECTION NUMBER AND '2' IS THE PANEL NUMBER WITHIN THIS FIELD SECTION.

HAUNCH NOTE:

† = HAUNCH HEIGHT AT CENTERLINE OF WEB.

TO DETERMINE "†" AFTER ALL STRUCTURAL 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, UPWARD DEFLECTION IS NEGATIVE.)
- SLAB THICKNESS (10")
- = "†" VALUE FOR SETTING HAUNCH

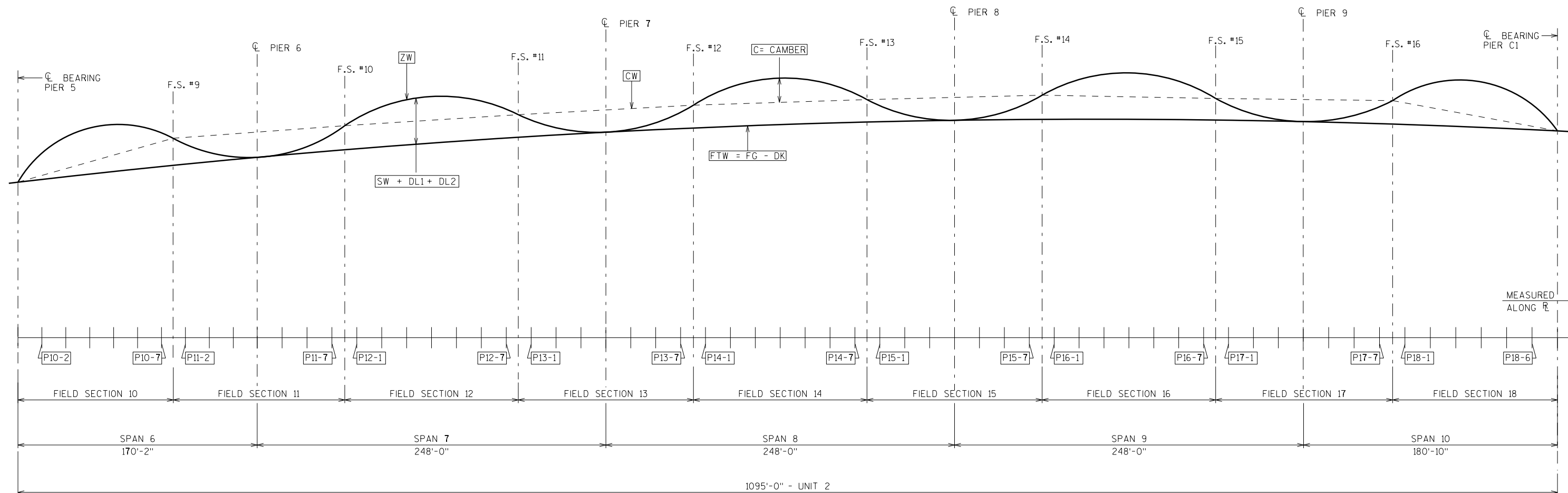


STEEL FABRICATION CONTRACT ONLY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY SOI		PLANS CK'D. NPP	
CAMBER DIAGRAM UNIT 1		SHEET 41 OF 51	

FILE= 0: \w\lsDot_12345678_US41BrIdges\Plans\B-05-679E\041-B-05-679E_CAMBER DIAGRAM UNIT 1.dgn

DATE: 7/19/2012
I.D.

CAMBER & BLOCKING DIAGRAMLEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1 SHEET.

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1 SHEET

HAUNCH NOTES:

FOR HAUNCH NOTES SEE CAMBER DIAGRAM UNIT 1 SHEET.

STEEL FABRICATION CONTRACT ONLY

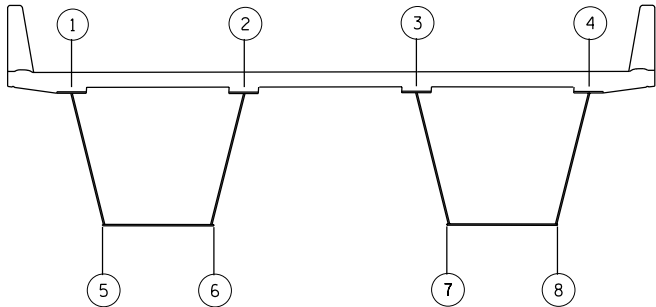
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		SOI	PLANS CK'D. NPP
CAMBER DIAGRAM UNIT 2		SHEET 42 OF 51	

FIELD SECTION 1

HORIZ. LOC.	VALUE	POSITION AND STATION							
		S. ABUT.	P1-2	P1-3	P1-4	P1-5	P1-6	P1-7	FS #1
		1187+31.83	1187+48.88	1187+65.92	1187+82.96	1188+00.00	1188+17.04	1188+34.08	1188+42.60
CAMBER DATA									
1	FG	609.23	609.69	610.16	610.62	611.09	611.55	612.01	612.24
	TES	608.15	608.67	609.18	609.67	610.14	610.58	611.01	611.31
	ZW	608.06	608.61	609.13	609.63	610.10	610.54	610.96	611.17
	CW	608.06	608.54	609.02	609.50	609.97	610.45	610.93	611.17
LEFT GIRDER	SW	0.00	0.02	0.04	0.05	0.05	0.04	0.03	0.02
	DL1	0.00	0.05	0.10	0.12	0.12	0.11	0.08	0.06
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.06	0.12	0.14	0.13	0.09	0.03	0.00
2	FG	608.48	608.94	609.41	609.87	610.34	610.80	611.26	611.49
	TES	607.40	607.92	608.43	608.92	609.38	609.83	610.26	610.56
	ZW	607.31	607.85	608.38	608.88	609.35	609.79	610.21	610.41
	CW	607.31	607.79	608.27	608.74	609.22	609.70	610.18	610.41
LEFT GIRDER	SW	0.00	0.02	0.04	0.04	0.05	0.04	0.03	0.02
	DL1	0.00	0.05	0.09	0.12	0.12	0.11	0.07	0.06
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.06	0.11	0.13	0.13	0.09	0.03	0.00
3	FG	607.73	608.19	608.66	609.12	609.59	610.05	610.51	610.74
	TES	606.65	607.17	607.68	608.16	608.63	609.08	609.51	609.81
	ZW	606.56	607.10	607.63	608.12	608.59	609.04	609.46	609.66
	CW	606.56	607.04	607.52	607.99	608.47	608.95	609.42	609.66
RIGHT GIRDER	SW	0.00	0.02	0.03	0.04	0.05	0.04	0.03	0.02
	DL1	0.00	0.05	0.09	0.11	0.12	0.10	0.07	0.06
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.06	0.11	0.13	0.12	0.09	0.03	0.00
LEFT WEB	FG	606.98	607.44	607.91	608.37	608.84	609.30	609.76	609.99
	TES	605.90	606.41	606.92	607.41	607.88	608.33	608.76	609.05
	ZW	605.81	606.35	606.87	607.37	607.84	608.28	608.70	608.91
	CW	605.81	606.29	606.77	607.24	607.72	608.20	608.67	608.91
RIGHT WEB	SW	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02
	DL1	0.00	0.05	0.09	0.11	0.11	0.10	0.07	0.05
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.06	0.11	0.13	0.12	0.09	0.03	0.00
BLOCKING HEIGHTS									
5	BLK	2.04							5.14
6		1.50							4.60
7		0.54							3.63
8		0.00							3.10

FIELD SECTION 2

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #1	P2-1	P2-2	P2-3	PIER 1	P2-5	P2-6	P2-7	FS #2	
		1188+42.60	1188+51.13	1188+68.17	1188+85.21	1189+02.25	1189+19.96	1189+37.68	1189+55.39	1189+64.25	
CAMBER DATA											
1	FG	612.24	612.48	612.94	613.40	613.87	614.35	614.83	615.31	615.55	
	TES	611.31	611.48	611.90	612.44	612.91	613.44	613.91	614.49	614.82	
	ZW	611.17	611.37	611.78	612.23	612.70	613.24	613.83	614.44	614.74	
	CW	611.17	611.42	611.92	612.42	612.92	613.44	613.96	614.48	614.74	
LEFT GIRDER	SW	0.02	0.02	0.00	0.00	0.00	0.01	0.04	0.07	0.09	
	DL1	0.06	0.04	0.01	-0.01	0.00	0.04	0.11	0.20	0.24	
	DL2	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	
	C	0.00	-0.05	-0.13	-0.19	-0.22	-0.20	-0.13	-0.04	0.00	
2	FG	611.49	611.73	612.19	612.65	613.12	613.60	614.08	614.56	614.80	
	TES	610.56	610.73	611.15	611.69	612.16	612.69	613.16	613.74	614.06	
	ZW	610.41	610.62	611.03	611.48	611.95	612.49	613.08	613.68	613.98	
	CW	610.41	610.66	611.16	611.66	612.16	612.68	613.20	613.72	613.98	
LEFT GIRDER	SW	0.02	0.02	0.00	0.00	0.00	0.01	0.04	0.07	0.08	
	DL1	0.06	0.04	0.01	-0.01	0.00	0.04	0.11	0.19	0.24	
	DL2	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	
	C	0.00	-0.04	-0.13	-0.19	-0.21	-0.19	-0.13	-0.04	0.00	
3	FG	610.74	610.98	611.44	611.90	612.37	612.85	613.33	613.81	614.05	
	TES	609.81	609.98	610.40	610.94	611.41	611.93	612.41	612.98	613.31	
	ZW	609.66	609.87	610.28	610.73	611.20	611.74	612.32	612.92	613.23	
	CW	609.66	609.91	610.41	610.91	611.41	611.93	612.45	612.97	613.23	
RIGHT GIRDER	SW	0.02	0.02	0.00	0.00	0.00	0.01	0.04	0.07	0.08	
	DL1	0.06	0.04	0.01	-0.01	0.00	0.04	0.11	0.19	0.23	
	DL2	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	
	C	0.00	-0.04	-0.13	-0.18	-0.21	-0.19	-0.12	-0.04	0.00	
LEFT WEB	FG	609.99	610.23	610.69	611.15	611.62	612.10	612.58	613.06	613.30	
	TES	609.05	609.23	609.65	610.19	610.66	611.18	611.66	612.23	612.55	
	ZW	608.91	609.12	609.53	609.98	610.45	610.99	611.57	612.17	612.47	
	CW	608.91	609.16	609.66	610.16	610.65	611.17	611.69	612.21	612.47	
RIGHT WEB	SW	0.02	0.02	0.00	0.00	0.00	0.01	0.04	0.07	0.08	
	DL1	0.05	0.04	0.01	-0.01	0.00	0.04	0.11	0.19	0.23	
	DL2	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	
	C	0.00	-0.04	-0.12	-0.18	-0.20	-0.18	-0.12	-0.04	0.00	
BLOCKING HEIGHTS											
5	BLK	5.14				6.67				8.71	
6		4.60				6.14				8.17	
7		3.63				5.17				7.20	
8		3.10				4.64				6.65	



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 1 AND 2			SHEET 43 OF 51

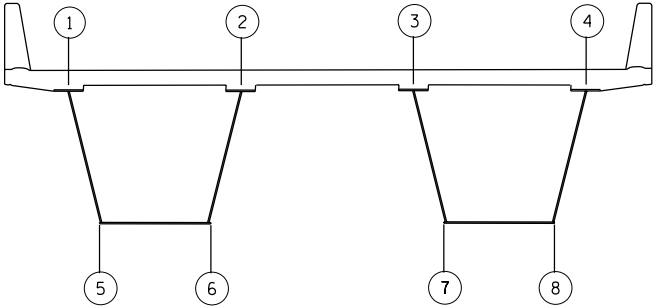
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 3

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #2	P3-1	P3-2	P3-3	P3-4	P3-5	P3-6	P3-7	FS #3
		1189+64.25	1189+73.11	1189+90.82	1190+08.54	1190+26.25	1190+43.96	1190+61.68	1190+79.39	1190+88.25
CAMBER DATA										
1	FG	615.55	615.79	616.26	616.72	617.18	617.64	618.09	618.53	618.75
	TES	614.82	615.02	615.57	616.08	616.56	616.98	617.37	617.73	617.99
	ZW	614.74	615.04	615.61	616.14	616.62	617.04	617.41	617.75	617.90
	CW	614.74	614.97	615.42	615.87	616.32	616.77	617.23	617.68	617.90
LEFT GIRDER	SW	0.09	0.10	0.13	0.14	0.15	0.14	0.12	0.10	0.08
	DL1	0.24	0.28	0.35	0.39	0.41	0.38	0.33	0.26	0.22
	DL2	0.03	0.03	0.04	0.05	0.05	0.04	0.04	0.03	0.03
	C	0.00	0.07	0.20	0.27	0.30	0.27	0.19	0.07	0.00
2	FG	614.80	615.04	615.51	615.97	616.43	616.89	617.34	617.78	618.00
	TES	614.06	614.26	614.81	615.32	615.80	616.22	616.62	616.98	617.23
	ZW	613.98	614.28	614.85	615.38	615.86	616.28	616.65	616.99	617.15
	CW	613.98	614.21	614.66	615.11	615.56	616.02	616.47	616.92	617.15
LEFT GIRDER	SW	0.08	0.10	0.12	0.14	0.15	0.14	0.12	0.10	0.08
	DL1	0.24	0.28	0.34	0.39	0.40	0.38	0.33	0.26	0.21
	DL2	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.03	0.02
	C	0.00	0.07	0.19	0.27	0.30	0.26	0.18	0.07	0.00
3	FG	614.05	614.29	614.76	615.22	615.68	616.14	616.59	617.03	617.25
	TES	613.31	613.51	614.05	614.56	615.04	615.47	615.86	616.22	616.48
	ZW	613.23	613.52	614.09	614.62	615.10	615.52	615.89	616.23	616.39
	CW	613.23	613.45	613.90	614.36	614.81	615.26	615.71	616.17	616.39
RIGHT GIRDER	SW	0.08	0.10	0.12	0.14	0.14	0.14	0.12	0.09	0.08
	DL1	0.23	0.27	0.34	0.38	0.39	0.37	0.32	0.25	0.21
	DL2	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02
	C	0.00	0.07	0.19	0.26	0.29	0.26	0.18	0.07	0.00
LEFT WEB	FG	613.30	613.54	614.01	614.47	614.93	615.39	615.84	616.28	616.50
	TES	612.55	612.75	613.30	613.81	614.28	614.71	615.10	615.47	615.73
	ZW	612.47	612.76	613.33	613.86	614.34	614.76	615.14	615.48	615.64
	CW	612.47	612.69	613.15	613.60	614.05	614.50	614.96	615.41	615.64
RIGHT WEB	SW	0.08	0.10	0.12	0.14	0.14	0.13	0.12	0.09	0.08
	DL1	0.23	0.26	0.33	0.37	0.39	0.36	0.31	0.25	0.21
	DL2	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02
	C	0.00	0.07	0.19	0.26	0.28	0.25	0.18	0.07	0.00
BLOCKING HEIGHTS										
5	BLK	8.71								11.87
6		8.17								11.33
7		7.20								10.36
8		6.65								9.82

FIELD SECTION 4

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #3	P4-1	P4-2	P4-3	PIER 2	P4-5	P4-6	P4-7	FS #4
		1190+88.25	1190+97.11	1191+14.82	1191+32.54	1191+50.25	1191+67.96	1191+85.68	1192+03.39	1192+12.25
CAMBER DATA										
1	FG	618.75	618.96	619.39	619.82	620.23	620.65	621.05	621.45	621.65
	TES	617.99	618.12	618.46	618.91	619.29	619.70	620.06	620.52	620.80
	ZW	617.90	618.06	618.37	618.70	619.07	619.48	619.95	620.43	620.68
	CW	617.90	618.10	618.50	618.89	619.29	619.69	620.08	620.48	620.68
LEFT GIRDER	SW	0.08	0.07	0.04	0.01	0.00	0.00	0.01	0.04	0.05
	DL1	0.22	0.18	0.10	0.04	0.00	0.00	0.04	0.10	0.13
	DL2	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02
	C	0.00	-0.04	-0.13	-0.19	-0.22	-0.20	-0.14	-0.05	0.00
2	FG	618.00	618.21	618.64	619.07	619.48	619.90	620.30	620.70	620.90
	TES	617.23	617.36	617.71	618.16	618.54	618.95	619.31	619.77	620.04
	ZW	617.15	617.30	617.62	617.95	618.32	618.73	619.19	619.68	619.92
	CW	617.15	617.35	617.74	618.14	618.54	618.93	619.33	619.73	619.92
LEFT GIRDER	SW	0.08	0.07	0.04	0.01	0.00	0.00	0.01	0.03	0.05
	DL1	0.21	0.17	0.10	0.04	0.00	0.00	0.04	0.10	0.13
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02
	C	0.00	-0.04	-0.12	-0.19	-0.22	-0.20	-0.14	-0.05	0.00
3	FG	617.25	617.46	617.89	618.32	618.73	619.15	619.55	619.95	620.15
	TES	616.48	616.61	616.96	617.41	617.79	618.20	618.55	619.02	619.29
	ZW	616.39	616.55	616.87	617.20	617.57	617.98	618.44	618.93	619.17
	CW	616.39	616.59	616.99	617.38	617.78	618.18	618.58	618.97	619.17
RIGHT GIRDER	SW	0.08	0.06	0.04	0.01	0.00	0.00	0.01	0.03	0.05
	DL1	0.21	0.17	0.10	0.04	0.00	0.00	0.04	0.09	0.13
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02
	C	0.00	-0.04	-0.12	-0.18	-0.21	-0.19	-0.13	-0.05	0.00
LEFT WEB	FG	616.50	616.71	617.14	617.57	617.98	618.40	618.80	619.20	619.40
	TES	615.73	615.86	616.21	616.66	617.04	617.45	617.80	618.26	618.54
	ZW	615.64	615.79	616.12	616.45	616.82	617.23	617.69	618.17	618.42
	CW	615.64	615.83	616.23	616.63	617.03	617.42	617.82	618.22	618.42
RIGHT WEB	SW	0.08	0.06	0.04	0.01	0.00	0.00	0.01	0.03	0.05
	DL1	0.21	0.17	0.09	0.04	0.00	0.00	0.04	0.09	0.12
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02
	C	0.00	-0.04	-0.12	-0.18	-0.21	-0.19	-0.13	-0.05	0.00
BLOCKING HEIGHTS										
5	BLK	11.87				13.04				14.65
6		11.33				12.50				14.11
7		10.36				11.54				13.14
8		9.82				11.00				12.60



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 3 AND 4			SHEET 44 OF 51

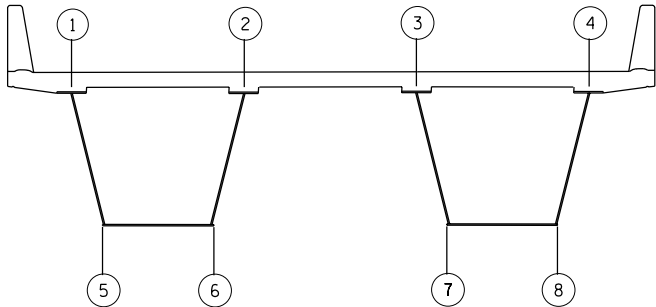
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 5

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #4	P5-1	P5-2	P5-3	P5-4	P5-5	P5-6	P5-7	FS #5	
		1192+12.25	1192+21.11	1192+38.82	1192+56.54	1192+74.25	1192+91.96	1193+09.68	1193+27.39	1193+36.25	
CAMBER DATA											
1	FG	621.65	621.85	622.24	622.62	622.99	623.37	623.73	624.09	624.27	
	TES	620.80	620.95	621.40	621.83	622.22	622.58	622.90	623.20	623.42	
	ZW	620.68	620.92	621.40	621.84	622.24	622.59	622.91	623.18	623.31	
	CW	620.68	620.87	621.24	621.62	621.99	622.37	622.75	623.12	623.31	
LEFT GIRDER	SW	0.05	0.06	0.08	0.10	0.10	0.10	0.09	0.07	0.05	
	DL1	0.13	0.16	0.22	0.26	0.28	0.26	0.23	0.17	0.14	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.06	0.16	0.22	0.25	0.22	0.16	0.06	0.00	
2	FG	620.90	621.10	621.49	621.87	622.24	622.62	622.98	623.34	623.52	
	TES	620.04	620.19	620.65	621.07	621.47	621.82	622.15	622.44	622.67	
	ZW	619.92	620.17	620.64	621.08	621.49	621.84	622.15	622.43	622.56	
	CW	619.92	620.11	620.49	620.86	621.24	621.62	621.99	622.37	622.56	
LEFT GIRDER	SW	0.05	0.06	0.08	0.10	0.10	0.10	0.08	0.06	0.05	
	DL1	0.13	0.16	0.22	0.26	0.27	0.26	0.22	0.17	0.14	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.06	0.16	0.22	0.25	0.22	0.16	0.06	0.00	
3	FG	620.15	620.35	620.74	621.12	621.49	621.87	622.23	622.59	622.77	
	TES	619.29	619.44	619.89	620.32	620.71	621.07	621.39	621.69	621.92	
	ZW	619.17	619.41	619.89	620.33	620.73	621.08	621.39	621.67	621.80	
	CW	619.17	619.36	619.74	620.11	620.49	620.86	621.24	621.62	621.80	
RIGHT GIRDER	SW	0.05	0.06	0.08	0.09	0.10	0.09	0.08	0.06	0.05	
	DL1	0.13	0.16	0.21	0.25	0.27	0.25	0.22	0.16	0.13	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.06	0.15	0.22	0.24	0.22	0.15	0.06	0.00	
LEFT WEB	FG	619.40	619.60	619.99	620.37	620.74	621.12	621.48	621.84	622.02	
	TES	618.54	618.69	619.14	619.56	619.96	620.31	620.64	620.94	621.17	
	ZW	618.42	618.66	619.13	619.57	619.97	620.32	620.64	620.92	621.05	
	CW	618.42	618.61	618.98	619.36	619.73	620.11	620.49	620.86	621.05	
RIGHT WEB	SW	0.05	0.06	0.08	0.09	0.10	0.09	0.08	0.06	0.05	
	DL1	0.12	0.15	0.21	0.25	0.26	0.25	0.22	0.16	0.13	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.05	0.15	0.21	0.24	0.21	0.15	0.06	0.00	
BLOCKING HEIGHTS											
5	BLK	14.65								17.28	
6		14.11								16.74	
7		13.14								15.77	
8		12.60								15.24	

FIELD SECTION 6

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #5	P6-1	P6-2	P6-3	PIER 3	P6-5	P6-6	P6-7	FS #6	
		1193+36.25	1193+45.11	1193+62.82	1193+80.54	1193+98.25	1194+15.96	1194+33.68	1194+51.39	1194+60.25	
CAMBER DATA											
1	FG	624.27	624.44	624.79	625.13	625.47	625.79	626.12	626.44	626.59	
	TES	623.42	623.52	623.81	624.20	624.52	624.88	625.17	625.58	625.83	
	ZW	623.31	623.44	623.70	623.98	624.30	624.67	625.08	625.52	625.74	
	CW	623.31	623.48	623.83	624.18	624.52	624.87	625.22	625.56	625.74	
LEFT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.06	0.08	
	DL1	0.14	0.11	0.05	0.01	0.00	0.03	0.09	0.17	0.21	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.13	-0.19	-0.23	-0.20	-0.14	-0.05	0.00	
2	FG	623.52	623.69	624.04	624.38	624.72	625.04	625.37	625.69	625.84	
	TES	622.67	622.77	623.06	623.45	623.77	624.13	624.42	624.83	625.07	
	ZW	622.56	622.69	622.95	623.23	623.55	623.92	624.33	624.76	624.98	
	CW	622.56	622.73	623.08	623.42	623.77	624.12	624.46	624.81	624.98	
LEFT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.06	0.07	
	DL1	0.14	0.11	0.05	0.01	0.00	0.03	0.09	0.16	0.21	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.12	-0.19	-0.22	-0.20	-0.13	-0.05	0.00	
3	FG	622.77	622.94	623.29	623.63	623.97	624.29	624.62	624.94	625.09	
	TES	621.92	622.02	622.30	622.70	623.02	623.38	623.67	624.07	624.32	
	ZW	621.80	621.93	622.20	622.48	622.80	623.17	623.57	624.01	624.22	
	CW	621.80	621.98	622.32	622.67	623.01	623.36	623.71	624.05	624.22	
RIGHT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.06	0.07	
	DL1	0.13	0.10	0.05	0.01	0.00	0.03	0.08	0.16	0.20	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.22	-0.19	-0.13	-0.05	0.00	
LEFT WEB	FG	622.02	622.19	622.54	622.88	623.22	623.54	623.87	624.19	624.34	
	TES	621.17	621.27	621.55	621.95	622.27	622.63	622.92	623.32	623.56	
	ZW	621.05	621.18	621.45	621.73	622.05	622.42	622.82	623.25	623.47	
	CW	621.05	621.22	621.57	621.91	622.26	622.60	622.95	623.30	623.47	
RIGHT WEB	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.06	0.07	
	DL1	0.13	0.10	0.05	0.01	0.00	0.03	0.08	0.16	0.20	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.21	-0.19	-0.13	-0.04	0.00	
BLOCKING HEIGHTS											
5	BLK	17.28				18.27				19.71	
6		16.74				17.73				19.17	
7		15.77				16.77				18.20	
8		15.24				16.23				17.65	



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
		DRAWN BY STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 5 AND 6			SHEET 45 OF 51

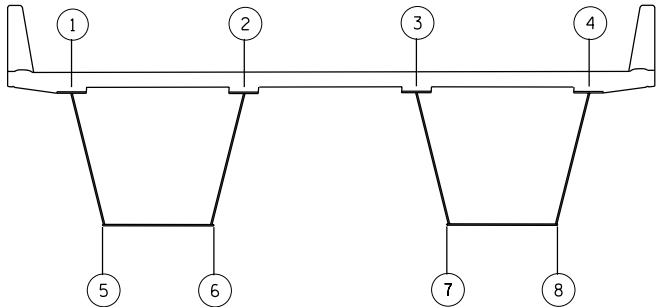
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 7

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #6	P7-1	P7-2	P7-3	P7-4	P7-5	P7-6	P7-7	FS #7
		1194+60.25	1194+69.11	1194+86.82	1195+04.54	1195+22.25	1195+39.96	1195+57.68	1195+75.39	1195+84.25
CAMBER DATA										
1	FG	626.59	626.75	627.05	627.35	627.65	627.93	628.22	628.49	628.63
	TES	625.83	625.95	626.34	626.70	627.02	627.30	627.53	627.73	627.90
	ZW	625.74	625.96	626.38	626.75	627.09	627.36	627.58	627.75	627.83
	CW	625.74	625.89	626.19	626.48	626.78	627.08	627.38	627.68	627.83
LEFT GIRDER	SW	0.08	0.09	0.12	0.14	0.15	0.15	0.13	0.11	0.09
	DL1	0.21	0.25	0.33	0.38	0.41	0.40	0.36	0.29	0.25
	DL2	0.02	0.03	0.04	0.04	0.05	0.05	0.04	0.03	0.03
	C	0.00	0.07	0.19	0.27	0.30	0.28	0.20	0.07	0.00
2	FG	625.84	626.00	626.30	626.60	626.90	627.18	627.47	627.74	627.88
	TES	625.07	625.19	625.58	625.94	626.26	626.54	626.77	626.97	627.15
	ZW	624.98	625.20	625.61	625.99	626.32	626.60	626.82	626.99	627.07
	CW	624.98	625.13	625.43	625.73	626.03	626.33	626.62	626.92	627.07
LEFT GIRDER	SW	0.07	0.09	0.12	0.14	0.15	0.14	0.13	0.10	0.09
	DL1	0.21	0.25	0.32	0.38	0.40	0.39	0.35	0.28	0.24
	DL2	0.02	0.03	0.04	0.04	0.05	0.04	0.04	0.03	0.03
	C	0.00	0.07	0.19	0.26	0.30	0.27	0.19	0.07	0.00
3	FG	625.09	625.25	625.55	625.85	626.15	626.43	626.72	626.99	627.13
	TES	624.32	624.44	624.82	625.18	625.50	625.78	626.01	626.22	626.39
	ZW	624.22	624.44	624.85	625.23	625.56	625.83	626.06	626.23	626.31
	CW	624.22	624.37	624.67	624.97	625.27	625.57	625.87	626.16	626.31
RIGHT GIRDER	SW	0.07	0.09	0.11	0.13	0.14	0.14	0.13	0.10	0.09
	DL1	0.20	0.24	0.32	0.37	0.39	0.38	0.34	0.27	0.24
	DL2	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03
	C	0.00	0.07	0.18	0.26	0.29	0.27	0.19	0.07	0.00
LEFT WEB	FG	624.34	624.50	624.80	625.10	625.40	625.68	625.97	626.24	626.38
	TES	623.56	623.68	624.07	624.42	624.74	625.02	625.26	625.46	625.64
	ZW	623.47	623.68	624.09	624.47	624.80	625.07	625.29	625.48	625.56
	CW	623.47	623.62	623.92	624.21	624.51	624.81	625.11	625.41	625.56
RIGHT WEB	SW	0.07	0.09	0.11	0.13	0.14	0.14	0.12	0.10	0.09
	DL1	0.20	0.24	0.31	0.36	0.38	0.37	0.33	0.27	0.23
	DL2	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03
	C	0.00	0.07	0.18	0.25	0.29	0.26	0.19	0.07	0.00
BLOCKING HEIGHTS										
5	BLK	19.71								21.80
6		19.17								21.26
7		18.20								20.28
8		17.65								19.74

FIELD SECTION 8

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #7 1195+84.25	P8-1 1195+93.11	P8-2 1196+10.82	P8-3 1196+28.54	PIER 4 1196+46.25	P8-5 1196+63.27	P8-6 1196+80.28	P8-7 1196+97.30	FS #8 1197+05.81
CAMBER DATA										
1	FG	628.63	628.76	629.03	629.29	629.54	629.78	630.01	630.23	630.34
	TES	627.90	627.95	628.12	628.39	628.59	628.81	628.97	629.23	629.40
	ZW	627.83	627.90	628.04	628.19	628.37	628.59	628.84	629.12	629.26
	CW	627.83	627.93	628.14	628.35	628.56	628.76	628.96	629.16	629.26
LEFT WEB	SW	0.09	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02
	DL1	0.25	0.20	0.12	0.05	0.00	-0.01	0.00	0.03	0.05
	DL2	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01
	C	0.00	-0.03	-0.10	-0.16	-0.19	-0.17	-0.12	-0.04	0.00
2	FG	627.88	628.01	628.28	628.54	628.79	629.03	629.26	629.48	629.59
	TES	627.15	627.19	627.37	627.64	627.84	628.06	628.22	628.48	628.65
	ZW	627.07	627.14	627.29	627.44	627.62	627.84	628.09	628.37	628.50
	CW	627.07	627.18	627.38	627.59	627.80	628.00	628.20	628.40	628.50
RIGHT WEB	SW	0.09	0.07	0.04	0.02	0.00	0.00	0.00	0.01	0.02
	DL1	0.24	0.20	0.12	0.05	0.00	-0.01	0.00	0.03	0.05
	DL2	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01
	C	0.00	-0.03	-0.10	-0.15	-0.18	-0.16	-0.11	-0.04	0.00
3	FG	627.13	627.26	627.53	627.79	628.04	628.28	628.51	628.73	628.84
	TES	626.39	626.44	626.61	626.89	627.09	627.32	627.47	627.73	627.90
	ZW	626.31	626.39	626.53	626.69	626.87	627.09	627.34	627.61	627.75
	CW	626.31	626.42	626.63	626.84	627.05	627.25	627.45	627.65	627.75
RIGHT GIRDER	SW	0.09	0.07	0.04	0.02	0.00	0.00	0.00	0.01	0.02
	DL1	0.24	0.19	0.11	0.05	0.00	-0.01	0.00	0.03	0.05
	DL2	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01
	C	0.00	-0.03	-0.10	-0.15	-0.18	-0.16	-0.11	-0.04	0.00
4	FG	626.38	626.51	626.78	627.04	627.29	627.53	627.76	627.98	628.09
	TES	625.64	625.68	625.86	626.14	626.34	626.57	626.72	626.98	627.15
	ZW	625.56	625.63	625.78	625.94	626.12	626.34	626.59	626.86	627.00
	CW	625.56	625.66	625.87	626.08	626.29	626.49	626.70	626.90	627.00
RIGHT WEB	SW	0.09	0.07	0.04	0.02	0.00	0.00	0.00	0.01	0.02
	DL1	0.23	0.19	0.11	0.04	0.00	-0.01	0.00	0.03	0.05
	DL2	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01
	C	0.00	-0.03	-0.09	-0.15	-0.17	-0.15	-0.10	-0.03	0.00
BLOCKING HEIGHTS										
5	BLK	21.80				22.34				23.23
6		21.26				21.81				22.69
7		20.28				20.84				21.72
8		19.74				20.31				21.18



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 7 AND 8			SHEET 46 OF 51

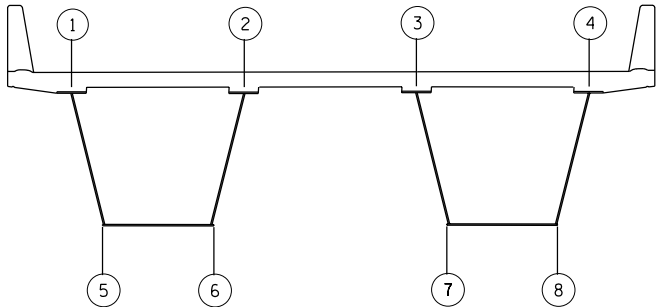
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 9

HORIZ. LOC.	VALUE	POSITION AND STATION							
		FS #8	P9-1	P9-2	P9-3	P9-4	P9-5	P9-6	PIER 5
		1197+05.81	1197+14.32	1197+31.33	1197+48.35	1197+65.37	1197+82.38	1197+99.40	1198+16.42
CAMBER DATA									
1	FG	630.34	630.45	630.67	630.88	631.08	631.28	631.47	631.66
	TES	629.40	629.45	629.70	629.93	630.13	630.30	630.45	630.58
	ZW	629.26	629.39	629.66	629.89	630.09	630.25	630.38	630.50
	CW	629.26	629.35	629.54	629.73	629.92	630.11	630.31	630.50
LEFT GIRDER	SW	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
	DL1	0.05	0.07	0.10	0.12	0.12	0.09	0.05	0.00
	DL2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	C	0.00	0.04	0.11	0.16	0.16	0.14	0.08	0.00
2	FG	629.59	629.70	629.92	630.13	630.33	630.53	630.72	630.91
	TES	628.65	628.70	628.95	629.17	629.37	629.55	629.70	629.83
	ZW	628.50	628.64	628.90	629.13	629.33	629.50	629.63	629.75
	CW	628.50	628.60	628.79	628.98	629.17	629.36	629.55	629.75
LEFT GIRDER	SW	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.00
	DL1	0.05	0.07	0.10	0.12	0.11	0.09	0.05	0.00
	DL2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	C	0.00	0.04	0.11	0.15	0.16	0.14	0.08	0.00
3	FG	628.84	628.95	629.17	629.38	629.58	629.78	629.97	630.16
	TES	627.90	627.95	628.19	628.42	628.62	628.80	628.95	629.08
	ZW	627.75	627.89	628.15	628.38	628.58	628.75	628.88	629.00
	CW	627.75	627.85	628.04	628.23	628.42	628.61	628.80	629.00
RIGHT GIRDER	SW	0.02	0.02	0.04	0.04	0.04	0.03	0.02	0.00
	DL1	0.05	0.07	0.10	0.11	0.11	0.09	0.05	0.00
	DL2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	C	0.00	0.04	0.11	0.15	0.16	0.13	0.08	0.00
LEFT WEB	FG	628.09	628.20	628.42	628.63	628.83	629.03	629.22	629.41
	TES	627.15	627.19	627.44	627.67	627.87	628.04	628.19	628.33
	ZW	627.00	627.13	627.39	627.62	627.82	627.99	628.13	628.25
	CW	627.00	627.09	627.29	627.48	627.67	627.86	628.05	628.25
RIGHT WEB	SW	0.02	0.02	0.03	0.04	0.04	0.03	0.02	0.00
	DL1	0.05	0.07	0.10	0.11	0.11	0.09	0.05	0.00
	DL2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
	C	0.00	0.04	0.11	0.15	0.15	0.13	0.07	0.00
BLOCKING HEIGHTS									
5	BLK	23.23							24.47
6		22.69							23.93
7		21.72							22.97
8		21.18							22.43

FIELD SECTION 10

HORIZ. LOC.	VALUE	POSITION AND STATION							
		PIER 5	P10-2	P10-3	P10-4	P10-5	P10-6	P10-7	FS #9
		1198+20.08	1198+37.10	1198+54.12	1198+71.13	1198+88.15	1199+05.17	1199+22.18	1199+30.69
CAMBER DATA									
1	FG	631.70	631.88	632.06	632.23	632.39	632.55	632.71	632.78
	TES	630.62	630.86	631.09	631.28	631.45	631.60	631.71	631.86
	ZW	630.54	630.80	631.04	631.25	631.42	631.56	631.66	631.71
	CW	630.54	630.72	630.90	631.08	631.26	631.44	631.62	631.71
LEFT GIRDER	SW	0.00	0.02	0.04	0.04	0.05	0.04	0.03	0.02
	DL1	0.00	0.05	0.10	0.12	0.13	0.11	0.08	0.06
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.08	0.14	0.17	0.16	0.12	0.04	0.00
2	FG	630.95	631.13	631.31	631.48	631.64	631.80	631.96	632.03
	TES	629.87	630.11	630.33	630.53	630.70	630.84	630.96	631.11
	ZW	629.79	630.04	630.29	630.49	630.66	630.80	630.91	630.95
	CW	629.79	629.97	630.15	630.33	630.51	630.69	630.86	630.95
LEFT GIRDER	SW	0.00	0.02	0.04	0.04	0.05	0.04	0.03	0.02
	DL1	0.00	0.05	0.10	0.12	0.12	0.11	0.08	0.06
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.08	0.14	0.17	0.16	0.12	0.04	0.00
3	FG	630.20	630.38	630.56	630.73	630.89	631.05	631.21	631.28
	TES	629.12	629.36	629.58	629.78	629.95	630.09	630.21	630.36
	ZW	629.04	629.29	629.53	629.74	629.91	630.04	630.15	630.20
	CW	629.04	629.21	629.39	629.57	629.75	629.93	630.11	630.20
RIGHT GIRDER	SW	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02
	DL1	0.00	0.05	0.09	0.12	0.12	0.11	0.07	0.06
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.08	0.14	0.16	0.15	0.11	0.04	0.00
LEFT WEB	FG	629.45	629.63	629.81	629.98	630.14	630.30	630.46	630.53
	TES	628.37	628.61	628.83	629.02	629.19	629.34	629.46	629.60
	ZW	628.29	628.54	628.78	628.98	629.15	629.29	629.40	629.45
	CW	628.29	628.46	628.64	628.82	629.00	629.18	629.36	629.45
RIGHT WEB	SW	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.02
	DL1	0.00	0.05	0.09	0.11	0.12	0.10	0.07	0.05
	DL2	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	C	0.00	0.08	0.13	0.16	0.15	0.11	0.04	0.00
BLOCKING HEIGHTS									
5	BLK	2.04							3.21
6		1.50							2.67
7		0.54							1.70
8		0.00							1.16



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 9 AND 10			SHEET 47 OF 51

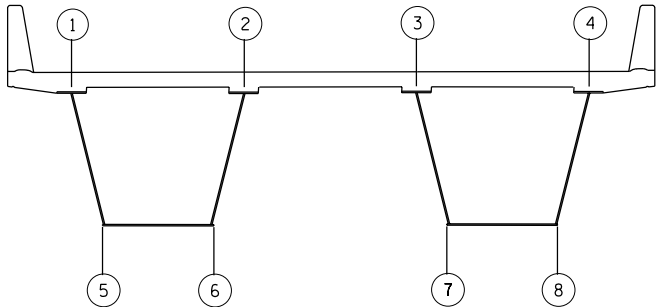
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 11

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #9 1199+30.69	P11-1 1199+39.20	P11-2 1199+56.22	P11-3 1199+73.23	PIER 6 1199+90.25	P11-5 1200+07.96	P11-6 1200+25.68	P11-7 1200+43.39	FS #10 1200+52.25	
CAMBER DATA											
1	FG	632.78	632.86	633.00	633.14	633.27	633.40	633.53	633.65	633.71	
	TES	631.86	631.86	631.96	632.17	632.31	632.50	632.62	632.84	633.00	
	ZW	631.71	631.75	631.84	631.96	632.10	632.31	632.54	632.79	632.91	
	CW	631.71	631.79	631.96	632.13	632.30	632.47	632.65	632.83	632.91	
LEFT GIRDER	SW	0.02	0.02	0.00	0.00	0.00	0.02	0.04	0.07	0.09	
	DL1	0.06	0.04	0.01	-0.01	0.00	0.05	0.12	0.21	0.25	
	DL2	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	
LEFT WEB	C	0.00	-0.04	-0.12	-0.17	-0.20	-0.17	-0.11	-0.04	0.00	
	FG	632.03	632.11	632.25	632.39	632.52	632.65	632.78	632.90	632.96	
	TES	631.11	631.11	631.21	631.42	631.56	631.75	631.87	632.08	632.24	
2	ZW	630.95	631.00	631.09	631.21	631.35	631.55	631.78	632.03	632.15	
	CW	630.95	631.04	631.21	631.37	631.54	631.72	631.89	632.07	632.15	
	SW	0.02	0.02	0.00	0.00	0.00	0.02	0.04	0.07	0.09	
	DL1	0.06	0.04	0.01	-0.01	0.00	0.05	0.12	0.20	0.25	
RIGHT GIRDER	DL2	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	
	C	0.00	-0.04	-0.11	-0.17	-0.19	-0.16	-0.11	-0.03	0.00	
	FG	631.28	631.36	631.50	631.64	631.77	631.90	632.03	632.15	632.21	
3	TES	630.36	630.36	630.46	630.67	630.81	630.99	631.11	631.33	631.48	
	ZW	630.20	630.25	630.34	630.46	630.60	630.80	631.03	631.27	631.39	
	CW	630.20	630.28	630.45	630.62	630.78	630.96	631.13	631.31	631.39	
	SW	0.02	0.01	0.00	0.00	0.00	0.02	0.04	0.07	0.09	
RIGHT GIRDER	DL1	0.06	0.04	0.01	-0.01	0.00	0.04	0.11	0.20	0.24	
	DL2	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	
	C	0.00	-0.04	-0.11	-0.16	-0.18	-0.16	-0.11	-0.03	0.00	
4	FG	630.53	630.61	630.75	630.89	631.02	631.15	631.28	631.40	631.46	
	TES	629.60	629.61	629.71	629.92	630.06	630.24	630.36	630.57	630.73	
	ZW	629.45	629.50	629.59	629.71	629.85	630.05	630.27	630.51	630.63	
	CW	629.45	629.53	629.70	629.86	630.03	630.20	630.37	630.55	630.63	
LEFT WEB	SW	0.02	0.01	0.00	0.00	0.00	0.02	0.04	0.07	0.08	
	DL1	0.05	0.04	0.00	-0.01	0.00	0.04	0.11	0.19	0.24	
	DL2	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	
RIGHT GIRDER	C	0.00	-0.04	-0.11	-0.15	-0.18	-0.15	-0.10	-0.03	0.00	
	BLOCKING HEIGHTS										
	5	BLK	3.21				3.60				4.41
6		2.67				3.07				3.87	
7		1.70				2.10				2.89	
8		1.16				1.57				2.35	

FIELD SECTION 12

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #10 1200+52.25	P12-1 1200+61.11	P12-2 1200+78.82	P12-3 1200+96.54	P12-4 1201+14.25	P12-5 1201+31.96	P12-6 1201+49.68	P12-7 1201+67.39	FS #11 1201+76.25	
CAMBER DATA											
1	FG	633.71	633.76	633.87	633.97	634.07	634.16	634.24	634.32	634.36	
	TES	633.00	633.01	633.20	633.35	633.46	633.52	633.54	633.54	633.62	
	ZW	632.91	633.03	633.24	633.41	633.53	633.58	633.59	633.55	633.53	
	CW	632.91	632.96	633.04	633.13	633.22	633.31	633.40	633.48	633.53	
LEFT WEB	SW	0.09	0.11	0.13	0.15	0.15	0.14	0.13	0.10	0.08	
	DL1	0.25	0.30	0.37	0.41	0.42	0.40	0.34	0.27	0.23	
	DL2	0.03	0.03	0.04	0.05	0.05	0.04	0.04	0.03	0.03	
	C	0.00	0.07	0.20	0.28	0.31	0.27	0.19	0.07	0.00	
2	FG	632.96	633.01	633.12	633.22	633.32	633.41	633.49	633.57	633.61	
	TES	632.24	632.25	632.44	632.59	632.70	632.76	632.79	632.78	632.87	
	ZW	632.15	632.27	632.48	632.65	632.76	632.82	632.82	632.79	632.77	
	CW	632.15	632.20	632.29	632.37	632.46	632.55	632.64	632.73	632.77	
RIGHT WEB	SW	0.09	0.10	0.13	0.14	0.15	0.14	0.12	0.10	0.08	
	DL1	0.25	0.29	0.36	0.40	0.42	0.39	0.34	0.26	0.22	
	DL2	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.03	0.03	
	C	0.00	0.07	0.19	0.28	0.30	0.27	0.19	0.07	0.00	
3	FG	632.21	632.26	632.37	632.47	632.57	632.66	632.74	632.82	632.86	
	TES	631.48	631.49	631.68	631.83	631.94	632.00	632.03	632.03	632.11	
	ZW	631.39	631.51	631.72	631.88	632.00	632.05	632.06	632.04	632.01	
	CW	631.39	631.44	631.53	631.62	631.70	631.79	631.88	631.97	632.01	
RIGHT GIRDER	SW	0.09	0.10	0.13	0.14	0.15	0.14	0.12	0.09	0.08	
	DL1	0.24	0.28	0.35	0.39	0.41	0.38	0.33	0.26	0.22	
	DL2	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	
	C	0.00	0.07	0.19	0.27	0.30	0.26	0.18	0.07	0.00	
4	FG	631.46	631.51	631.62	631.72	631.82	631.91	631.99	632.07	632.11	
	TES	630.73	630.73	630.92	631.07	631.18	631.24	631.27	631.27	631.36	
	ZW	630.63	630.75	630.96	631.12	631.24	631.29	631.30	631.28	631.26	
	CW	630.63	630.68	630.77	630.86	630.95	631.03	631.12	631.21	631.26	
RIGHT WEB	SW	0.08	0.10	0.12	0.14	0.14	0.13	0.12	0.09	0.08	
	DL1	0.24	0.27	0.34	0.39	0.40	0.37	0.32	0.25	0.21	
	DL2	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	
	C	0.00	0.07	0.19	0.26	0.29	0.26	0.18	0.07	0.00	
BLOCKING HEIGHTS											
5	BLK	4.41								5.03	
6		3.87							4.49		
7		2.89							3.51		
8		2.35							2.97		



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 11 AND 12			SHEET 48 OF 51

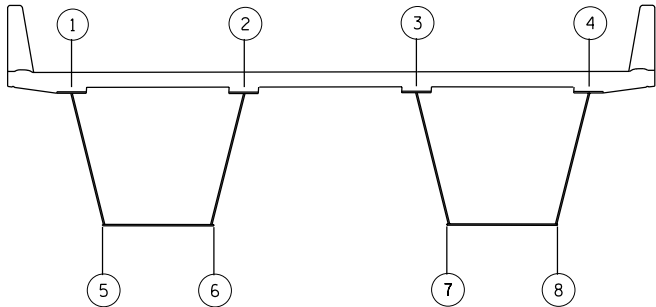
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 13

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #11 1201+76.25	P13-1 1201+85.11	P13-2 1202+02.82	P13-3 1202+20.54	PIER 7 1202+38.25	P13-5 1202+55.96	P13-6 1202+73.68	P13-7 1202+91.39	FS #12 1203+00.25	
CAMBER DATA											
1	FG	634.36	634.39	634.46	634.52	634.58	634.63	634.67	634.71	634.72	
	TES	633.62	633.56	633.53	633.62	633.63	633.68	633.67	633.77	633.88	
	ZW	633.53	633.50	633.45	633.41	633.41	633.47	633.56	633.68	633.75	
	CW	633.53	633.54	633.57	633.61	633.64	633.67	633.70	633.73	633.75	
LEFT GIRDER	SW	0.08	0.07	0.04	0.01	0.00	0.00	0.01	0.03	0.05	
	DL1	0.23	0.18	0.10	0.04	0.00	0.00	0.04	0.10	0.13	
	DL2	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02	
	C	0.00	-0.04	-0.13	-0.19	-0.23	-0.20	-0.14	-0.05	0.00	
2	FG	633.61	633.64	633.71	633.77	633.83	633.88	633.92	633.96	633.97	
	TES	632.87	632.80	632.78	632.87	632.88	632.93	632.92	633.02	633.13	
	ZW	632.77	632.74	632.69	632.66	632.66	632.72	632.81	632.93	633.00	
	CW	632.77	632.79	632.82	632.85	632.88	632.92	632.95	632.98	633.00	
LEFT GIRDER	SW	0.08	0.07	0.04	0.01	0.00	0.00	0.01	0.03	0.04	
	DL1	0.22	0.18	0.10	0.04	0.00	0.00	0.04	0.09	0.13	
	DL2	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02	
	C	0.00	-0.04	-0.12	-0.19	-0.22	-0.20	-0.14	-0.05	0.00	
3	FG	632.86	632.89	632.96	633.02	633.08	633.13	633.17	633.21	633.22	
	TES	632.11	632.05	632.03	632.12	632.13	632.18	632.17	632.27	632.38	
	ZW	632.01	631.99	631.94	631.91	631.91	631.97	632.06	632.18	632.24	
	CW	632.01	632.03	632.06	632.10	632.13	632.16	632.19	632.23	632.24	
RIGHT GIRDER	SW	0.08	0.07	0.04	0.01	0.00	0.00	0.01	0.03	0.04	
	DL1	0.22	0.18	0.10	0.04	0.00	0.00	0.04	0.09	0.13	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.22	-0.19	-0.14	-0.05	0.00	
4	FG	632.11	632.14	632.21	632.27	632.33	632.38	632.42	632.46	632.47	
	TES	631.36	631.29	631.28	631.37	631.38	631.43	631.42	631.52	631.62	
	ZW	631.26	631.23	631.19	631.16	631.16	631.22	631.31	631.43	631.49	
	CW	631.26	631.27	631.31	631.34	631.37	631.41	631.44	631.47	631.49	
RIGHT GIRDER	SW	0.08	0.06	0.04	0.01	0.00	0.00	0.01	0.03	0.04	
	DL1	0.21	0.17	0.10	0.04	0.00	0.00	0.04	0.09	0.12	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.21	-0.19	-0.13	-0.05	0.00	
BLOCKING HEIGHTS											
5	BLK	5.03				4.91				5.25	
6		4.49				4.38				4.71	
7		3.51				3.41				3.74	
8		2.97				2.88				3.20	

FIELD SECTION 14

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #12	P14-1	P14-2	P14-3	P14-4	P14-5	P14-6	P14-7	FS #13	
		1203+00.25	1203+09.11	1203+26.82	1203+44.54	1203+62.25	1203+79.96	1203+97.68	1204+15.39	1204+24.25	
CAMBER DATA											
1	FG	634.72	634.74	634.76	634.78	634.80	634.80	634.81	634.80	634.80	
	TES	633.88	633.84	633.93	634.00	634.03	634.02	633.98	633.91	633.97	
	ZW	633.75	633.81	633.93	634.01	634.05	634.03	633.98	633.89	633.84	
	CW	633.75	633.76	633.77	633.78	633.80	633.81	633.82	633.84	633.84	
LEFT GIRDER	SW	0.05	0.06	0.08	0.09	0.10	0.10	0.08	0.06	0.05	
	DL1	0.13	0.16	0.22	0.27	0.28	0.27	0.23	0.17	0.14	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.06	0.16	0.23	0.25	0.22	0.16	0.06	0.00	
2	FG	633.97	633.99	634.01	634.03	634.05	634.05	634.06	634.05	634.05	
	TES	633.13	633.09	633.18	633.24	633.27	633.27	633.23	633.16	633.22	
	ZW	633.00	633.06	633.17	633.25	633.29	633.28	633.22	633.14	633.09	
	CW	633.00	633.00	633.02	633.03	633.04	633.06	633.07	633.08	633.09	
LEFT GIRDER	SW	0.04	0.06	0.08	0.09	0.10	0.09	0.08	0.06	0.05	
	DL1	0.13	0.16	0.22	0.26	0.28	0.26	0.23	0.17	0.14	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.06	0.15	0.22	0.25	0.22	0.15	0.06	0.00	
3	FG	633.22	633.24	633.26	633.28	633.30	633.30	633.31	633.30	633.30	
	TES	632.38	632.33	632.42	632.49	632.52	632.51	632.47	632.41	632.46	
	ZW	632.24	632.30	632.41	632.49	632.53	632.52	632.47	632.39	632.34	
	CW	632.24	632.25	632.26	632.28	632.29	632.30	632.32	632.33	632.34	
RIGHT GIRDER	SW	0.04	0.06	0.08	0.09	0.10	0.09	0.08	0.06	0.05	
	DL1	0.13	0.16	0.21	0.26	0.27	0.26	0.22	0.17	0.14	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.05	0.15	0.22	0.24	0.22	0.15	0.06	0.00	
4	FG	632.47	632.49	632.51	632.53	632.55	632.55	632.56	632.55	632.55	
	TES	631.62	631.58	631.67	631.73	631.76	631.75	631.72	631.65	631.71	
	ZW	631.49	631.55	631.66	631.74	631.77	631.76	631.71	631.63	631.58	
	CW	631.49	631.50	631.51	631.52	631.54	631.55	631.56	631.58	631.58	
RIGHT GIRDER	SW	0.04	0.05	0.07	0.09	0.10	0.09	0.08	0.06	0.05	
	DL1	0.12	0.15	0.21	0.25	0.27	0.25	0.22	0.16	0.13	
	DL2	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	
	C	0.00	0.05	0.15	0.21	0.24	0.21	0.15	0.05	0.00	
BLOCKING HEIGHTS											
5	BLK	5.25								5.34	
6		4.71							4.80		
7		3.74							3.84		
8		3.20							3.30		



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 13 AND 14			SHEET 49 OF 51

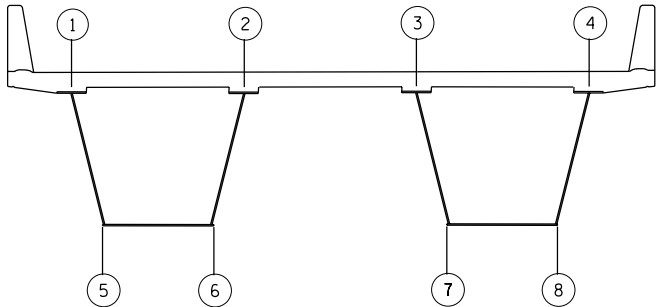
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 15

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #13	P15-1	P15-2	P15-3	PIER 8	P15-5	P15-6	P15-7	FS #14	
		1204+24.25	1204+33.11	1204+50.82	1204+68.54	1204+86.25	1205+03.96	1205+21.68	1205+39.39	1205+48.25	
CAMBER DATA											
1	FG	634.80	634.79	634.78	634.75	634.73	634.69	634.65	634.61	634.58	
	TES	633.97	633.87	633.80	633.82	633.78	633.78	633.70	633.75	633.82	
	ZW	633.84	633.79	633.69	633.61	633.56	633.57	633.61	633.68	633.72	
	CW	633.84	633.83	633.82	633.80	633.78	633.76	633.74	633.73	633.72	
LEFT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.06	0.07	
	DL1	0.14	0.11	0.05	0.01	0.00	0.03	0.08	0.16	0.20	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.13	-0.19	-0.22	-0.20	-0.14	-0.05	0.00	
2	FG	634.05	634.04	634.03	634.00	633.98	633.94	633.90	633.86	633.83	
	TES	633.22	633.12	633.04	633.07	633.03	633.03	632.95	632.99	633.07	
	ZW	633.09	633.04	632.94	632.86	632.81	632.82	632.86	632.92	632.96	
	CW	633.09	633.08	633.06	633.04	633.03	633.01	632.99	632.97	632.96	
LEFT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.06	0.07	
	DL1	0.14	0.11	0.05	0.01	0.00	0.03	0.08	0.16	0.20	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.22	-0.19	-0.13	-0.05	0.00	
3	FG	633.30	633.29	633.28	633.25	633.23	633.19	633.15	633.11	633.08	
	TES	632.46	632.37	632.29	632.32	632.28	632.27	632.20	632.24	632.31	
	ZW	632.34	632.29	632.19	632.11	632.06	632.07	632.10	632.17	632.21	
	CW	632.34	632.33	632.31	632.29	632.27	632.25	632.23	632.21	632.21	
RIGHT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.05	0.07	
	DL1	0.14	0.11	0.05	0.01	0.00	0.03	0.08	0.16	0.20	
LEFT WEB	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.21	-0.19	-0.13	-0.04	0.00	
4	FG	632.55	632.54	632.53	632.50	632.48	632.44	632.40	632.36	632.33	
	TES	631.71	631.62	631.54	631.57	631.53	631.53	631.45	631.49	631.56	
	ZW	631.58	631.53	631.44	631.36	631.31	631.32	631.35	631.42	631.45	
	CW	631.58	631.57	631.55	631.54	631.52	631.50	631.48	631.46	631.45	
RIGHT GIRDER	SW	0.05	0.04	0.02	0.01	0.00	0.01	0.03	0.05	0.07	
	DL1	0.13	0.10	0.05	0.01	0.00	0.03	0.08	0.15	0.19	
RIGHT WEB	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.04	-0.12	-0.18	-0.21	-0.18	-0.13	-0.04	0.00	
BLOCKING HEIGHTS											
5	BLK	5.34				5.06				5.22	
6		4.80				4.52				4.68	
7		3.84				3.56				3.70	
8		3.30				3.02				3.16	

FIELD SECTION 16

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #14	P16-1	P16-2	P16-3	P16-4	P16-5	P16-6	P16-7	FS #15	
		1205+48.25	1205+57.11	1205+74.82	1205+92.54	1206+10.25	1206+27.96	1206+45.68	1206+63.39	1206+72.25	
CAMBER DATA											
1	FG	634.58	634.56	634.50	634.44	634.37	634.29	634.21	634.12	634.08	
	TES	633.82	633.75	633.77	633.77	633.72	633.63	633.50	633.34	633.35	
	ZW	633.72	633.75	633.80	633.82	633.78	633.69	633.54	633.36	633.25	
	CW	633.72	633.68	633.62	633.55	633.48	633.42	633.35	633.29	633.25	
LEFT GIRDER	SW	0.07	0.09	0.11	0.13	0.14	0.14	0.12	0.10	0.08	
	DL1	0.20	0.25	0.32	0.37	0.39	0.38	0.34	0.27	0.23	
LEFT WEB	DL2	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	
	C	0.00	0.07	0.19	0.27	0.30	0.27	0.19	0.07	0.00	
2	FG	633.83	633.81	633.75	633.69	633.62	633.54	633.46	633.37	633.33	
	TES	633.07	632.99	633.02	633.01	632.97	632.87	632.75	632.59	632.59	
	ZW	632.96	632.99	633.04	633.06	633.02	632.93	632.78	632.60	632.50	
	CW	632.96	632.93	632.86	632.80	632.73	632.66	632.60	632.53	632.50	
LEFT GIRDER	SW	0.07	0.09	0.11	0.13	0.14	0.13	0.12	0.10	0.08	
	DL1	0.20	0.24	0.31	0.37	0.39	0.37	0.33	0.26	0.23	
RIGHT WEB	DL2	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	
	C	0.00	0.07	0.18	0.26	0.29	0.26	0.19	0.07	0.00	
3	FG	633.08	633.06	633.00	632.94	632.87	632.79	632.71	632.62	632.58	
	TES	632.31	632.24	632.26	632.25	632.21	632.12	631.99	631.83	631.84	
	ZW	632.21	632.24	632.28	632.30	632.26	632.16	632.02	631.84	631.74	
	CW	632.21	632.17	632.11	632.04	631.97	631.91	631.84	631.77	631.74	
RIGHT GIRDER	SW	0.07	0.08	0.11	0.13	0.14	0.13	0.12	0.09	0.08	
	DL1	0.20	0.24	0.31	0.36	0.38	0.37	0.32	0.26	0.22	
LEFT WEB	DL2	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	
	C	0.00	0.06	0.18	0.26	0.29	0.26	0.18	0.07	0.00	
4	FG	632.33	632.31	632.25	632.19	632.12	632.04	631.96	631.87	631.83	
	TES	631.56	631.48	631.50	631.49	631.45	631.36	631.23	631.07	631.08	
	ZW	631.45	631.48	631.53	631.53	631.50	631.40	631.26	631.08	630.98	
	CW	631.45	631.42	631.35	631.28	631.22	631.15	631.08	631.02	630.98	
RIGHT GIRDER	SW	0.07	0.08	0.11	0.12	0.13	0.13	0.11	0.09	0.08	
	DL1	0.19	0.23	0.30	0.35	0.37	0.36	0.32	0.25	0.22	
RIGHT WEB	DL2	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.02	
	C	0.00	0.06	0.18	0.25	0.28	0.25	0.18	0.07	0.00	
BLOCKING HEIGHTS											
5	BLK	5.22								4.75	
6		4.68								4.21	
7		3.70								3.24	
8		3.16								2.70	



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 1

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 15 AND 16			SHEET 50 OF 51

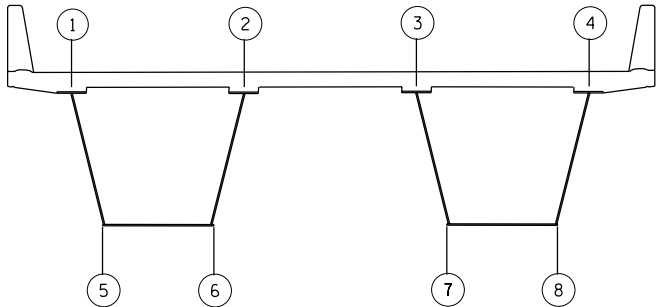
STEEL FABRICATION CONTRACT ONLY

FIELD SECTION 17

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #15	P17-1	P17-2	P17-3	PIER 9	P17-5	P17-6	P17-7	FS #16	
		1206+72.25	1206+81.11	1206+98.82	1207+16.54	1207+34.25	1207+52.33	1207+70.42	1207+88.50	1207+97.54	
CAMBER DATA											
1	FG	634.08	634.03	633.93	633.83	633.72	633.60	633.45	633.27	633.18	
	TES	633.35	633.20	633.01	632.93	632.77	632.65	632.44	632.31	632.30	
	ZW	633.25	633.15	632.93	632.73	632.55	632.43	632.33	632.22	632.16	
LEFT GIRDER	CW	633.25	633.18	633.02	632.87	632.71	632.56	632.40	632.24	632.16	
	SW	0.08	0.07	0.04	0.02	0.00	0.00	0.01	0.03	0.04	
	DL1	0.23	0.19	0.11	0.04	0.00	0.00	0.03	0.08	0.11	
LEFT WEB	DL2	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.03	-0.09	-0.14	-0.16	-0.13	-0.07	-0.03	0.00	
2	FG	633.33	633.28	633.18	633.08	632.97	632.85	632.72	632.59	632.52	
	TES	632.59	632.45	632.26	632.18	632.02	631.90	631.71	631.64	631.65	
	ZW	632.50	632.39	632.18	631.98	631.80	631.68	631.60	631.54	631.51	
LEFT GIRDER	CW	632.50	632.43	632.29	632.15	632.01	631.87	631.72	631.58	631.51	
	SW	0.08	0.07	0.04	0.02	0.00	0.00	0.01	0.03	0.04	
	DL1	0.23	0.18	0.11	0.04	0.00	0.00	0.03	0.08	0.11	
RIGHT WEB	DL2	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.17	-0.21	-0.18	-0.12	-0.04	0.00	
3	FG	632.58	632.53	632.43	632.33	632.22	632.10	631.99	631.91	631.87	
	TES	631.84	631.69	631.51	631.43	631.27	631.15	630.98	630.96	630.99	
	ZW	631.74	631.63	631.42	631.22	631.05	630.93	630.87	630.86	630.85	
RIGHT GIRDER	CW	631.74	631.68	631.55	631.43	631.30	631.17	631.05	630.92	630.85	
	SW	0.08	0.07	0.04	0.02	0.00	0.00	0.01	0.03	0.04	
	DL1	0.22	0.18	0.10	0.04	0.00	0.00	0.03	0.08	0.11	
LEFT WEB	DL2	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.13	-0.20	-0.25	-0.24	-0.18	-0.06	0.00	
4	FG	631.83	631.78	631.68	631.58	631.47	631.35	631.26	631.23	631.21	
	TES	631.08	630.94	630.76	630.68	630.52	630.40	630.25	630.28	630.34	
	ZW	630.98	630.88	630.67	630.47	630.30	630.18	630.14	630.18	630.20	
RIGHT GIRDER	CW	630.98	630.93	630.82	630.71	630.60	630.48	630.37	630.26	630.20	
	SW	0.08	0.07	0.04	0.02	0.00	0.00	0.01	0.03	0.04	
	DL1	0.22	0.18	0.10	0.04	0.00	0.00	0.03	0.08	0.10	
RIGHT WEB	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.05	-0.15	-0.23	-0.29	-0.30	-0.23	-0.08	0.00	
BLOCKING HEIGHTS											
5	BLK	4.75				4.05				3.66	
6		4.21				3.52				3.22	
7		3.24				2.55				2.35	
8		2.70				2.02				1.91	

FIELD SECTION 18

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #16	P18-1	P18-2	P18-3	P18-4	P18-5	P18-6	PIER C1		
		1207+97.54	1208+06.58	1208+24.67	1208+42.75	1208+60.83	1208+78.92	1208+97.00	1209+15.08		
CAMBER DATA											
1	FG	633.18	633.08	632.90	632.71	632.53	632.35	632.16	631.98		
	TES	632.30	632.15	632.01	631.84	631.65	631.42	631.16	630.89		
	ZW	632.16	632.11	631.99	631.83	631.62	631.38	631.11	630.81		
LEFT GIRDER	CW	632.16	632.06	631.85	631.64	631.44	631.23	631.02	630.81		
	SW	0.04	0.05	0.06	0.07	0.06	0.05	0.03	0.00		
	DL1	0.11	0.13	0.17	0.19	0.18	0.14	0.08	0.00		
LEFT WEB	DL2	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00		
	C	0.00	0.05	0.13	0.18	0.19	0.16	0.09	0.00		
2	FG	632.52	632.45	632.32	632.19	632.05	631.92	631.78	631.65		
	TES	631.65	631.52	631.43	631.31	631.16	630.99	630.78	630.57		
	ZW	631.51	631.48	631.40	631.30	631.14	630.95	630.73	630.48		
LEFT GIRDER	CW	631.51	631.43	631.27	631.11	630.96	630.80	630.64	630.48		
	SW	0.04	0.05	0.06	0.07	0.06	0.05	0.03	0.00		
	DL1	0.11	0.13	0.17	0.19	0.18	0.14	0.08	0.00		
RIGHT WEB	DL2	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00		
	C	0.00	0.05	0.13	0.18	0.19	0.16	0.09	0.00		
3	FG	631.87	631.83	631.74	631.66	631.57	631.49	631.40	631.32		
	TES	630.99	630.89	630.85	630.78	630.68	630.56	630.41	630.24		
	ZW	630.85	630.85	630.82	630.76	630.66	630.53	630.35	630.16		
RIGHT GIRDER	CW	630.85	630.80	630.69	630.59	630.48	630.37	630.26	630.16		
	SW	0.04	0.04	0.06	0.07	0.06	0.05	0.03	0.00		
	DL1	0.11	0.13	0.17	0.19	0.18	0.14	0.08	0.00		
LEFT WEB	DL2	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00		
	C	0.00	0.05	0.13	0.18	0.18	0.15	0.09	0.00		
4	FG	631.21	631.20	631.16	631.13	631.10	631.06	631.03	630.99		
	TES	630.34	630.26	630.27	630.25	630.20	630.13	630.03	629.91		
	ZW	630.20	630.22	630.24	630.23	630.18	630.10	629.97	629.83		
RIGHT GIRDER	CW	630.20	630.17	630.11	630.06	630.00	629.94	629.89	629.83		
	SW	0.04	0.04	0.06	0.06	0.06	0.05	0.03	0.00		
	DL1	0.10	0.13	0.17	0.19	0.17	0.14	0.08	0.00		
RIGHT WEB	DL2	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00		
	C	0.00	0.05	0.13	0.18	0.18	0.15	0.09	0.00		
BLOCKING HEIGHTS											
5	BLK	3.66							2.31		
6		3.22							2.20		
7		2.35							1.66		
8		1.91							1.54		



HORIZONTAL LOCATION KEY

LOOKING UPSTATION

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FOR NOTES SEE CAMBER DIAGRAM UNIT 1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-679			
DRAWN BY		STB	PLANS CK'D. NPP
CAMBER DATA: FIELD SECTIONS 17 AND 18			SHEET 51 OF 51

STEEL FABRICATION CONTRACT ONLY