

Dec 02 INDEX OF SHEETS

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TOTAL SHEETS = 242

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PLAN OF PROPOSED IMPROVEMENT

CASS STREET BRIDGE, CITY OF LA CROSSE

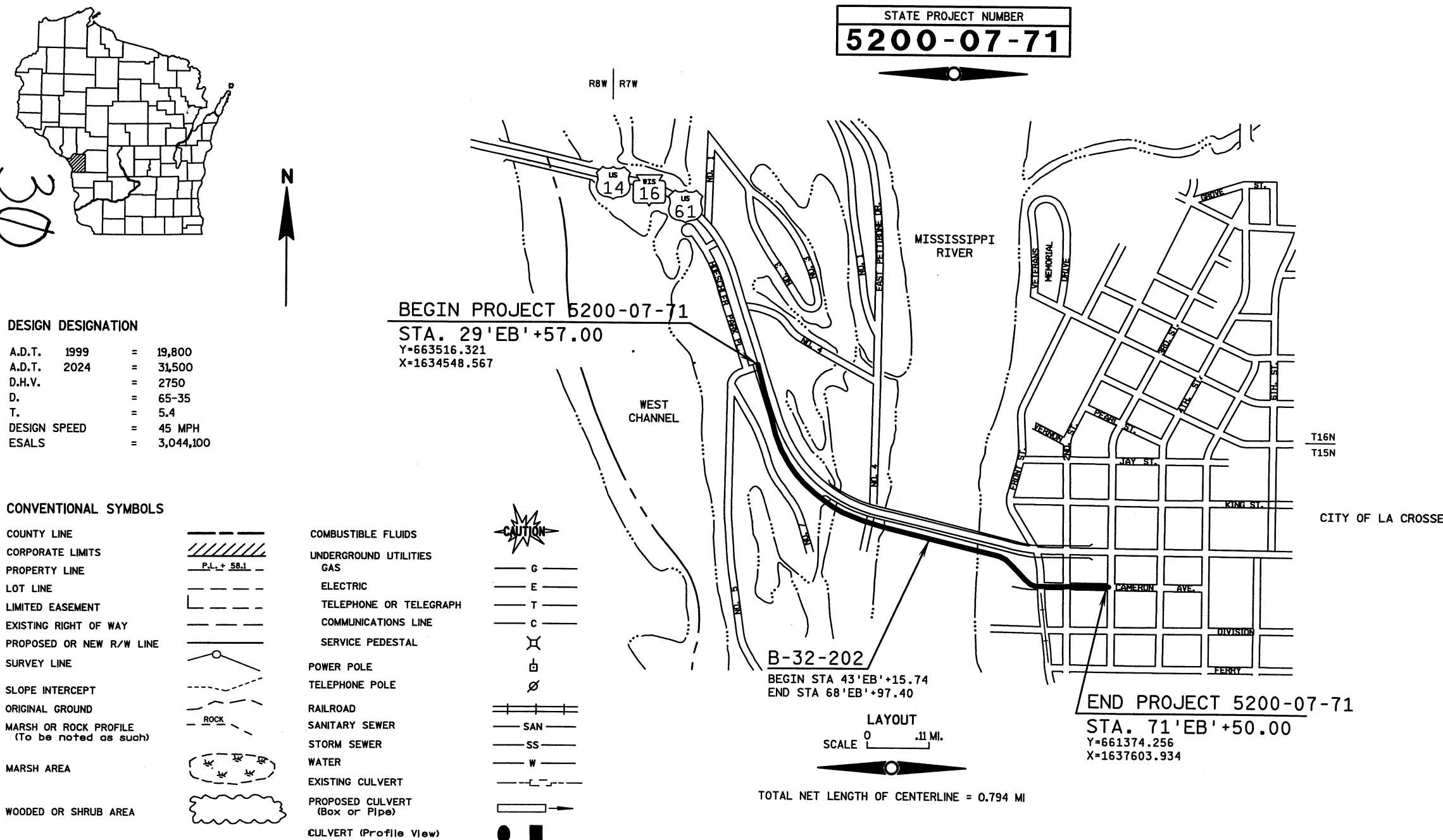
MISSISSIPPI RIVER CROSSING EAST CHANNEL

USH 14/61/STH 16
LA CROSSE COUNTY

B-32-202

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5200-07-71	BR 2003071	1

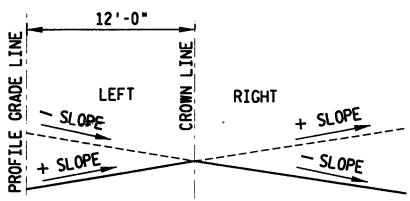
STATE PROJECT NUMBER
5200-07-71



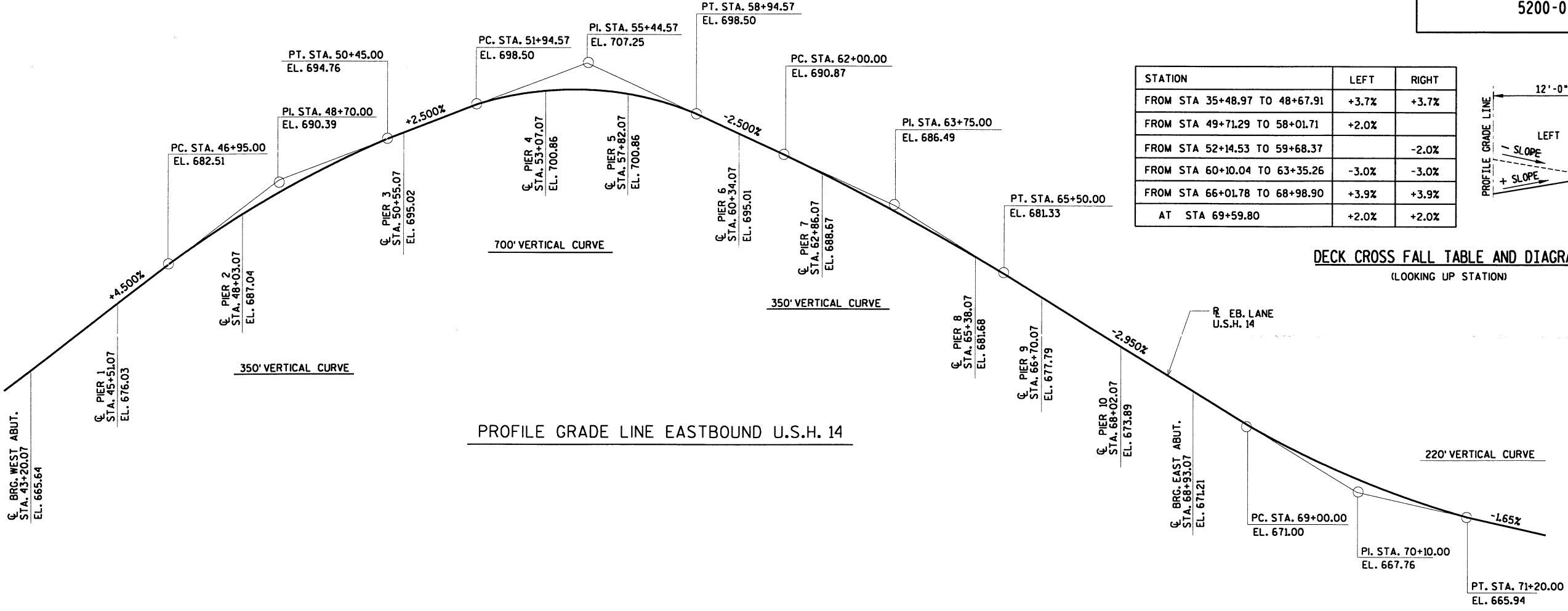
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	MYLES JOHNSON
Designer	DENNIS PARSLEY
District Examiner	STEPHEN FLOTTMEYER
District Supervisor	
Proj. Dev. Engineer	
C.O. Examiner	Jane Englebreton
APPROVED FOR DISTRICT OFFICE	
DATE	6/27/02 <i>Jane Englebreton</i> (Signature)

"Coordinates on this plan are referenced to the Wisconsin State Plane Coordinate System (WSPCS), 'Central' Zone."

STATION	LEFT	RIGHT
FROM STA 35+48.97 TO 48+67.91	+3.7%	+3.7%
FROM STA 49+71.29 TO 58+01.71	+2.0%	
FROM STA 52+14.53 TO 59+68.37		-2.0%
FROM STA 60+10.04 TO 63+35.26	-3.0%	-3.0%
FROM STA 66+01.78 TO 68+98.90	+3.9%	+3.9%
AT STA 69+59.80	+2.0%	+2.0%



DECK CROSS FALL TABLE AND DIAGRAM
(LOOKING UP STATION)



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS

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

WEATHERING STEEL TO BE PAINTED IN THE LOCATIONS AND BY THE METHODS SPECIFIED IN SECTION 506.3.32 OF THE SPECIFICATIONS. FINISHING COAT SHALL BE BROWN IN COLOR.

ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE SHOWN OR NOTED. (PAY WT. BASED ON 1.14 LB./BOLT)

FOR 7/8" BOLTS, UNLESS SHOWN OTHERWISE:

- THE MINIMUM BOLT SPACING IS 3"
- THE MINIMUM DISTANCE FROM CENTER OF BOLT HOLE TO SHEARED OR THERMALLY CUT EDGE SHALL BE 1/2"
- THE MINIMUM DISTANCE FROM CENTER OF BOLT HOLE TO A ROLLED OR PLANED EDGE SHALL BE 1/8"

ALL STRUCTURAL STEEL IS ASTM A709 GRADE 50, Fy=50,000 psi. SEE SPECIFICATIONS FOR LOCATION OF WEATHERING STEEL AND CHARPY V-NOTCH TESTING REQUIREMENTS.

WELDING

FILLET WELD SIZES SHALL BE IN ACCORDANCE WITH THE FOLLOW TABLE UNLESS NOTED OTHERWISE

THE GREATER THICKNESS OF TWO PARTS JOINED "T"	FILLET WELD SIZE
$T \leq \frac{1}{2}"$	$\frac{3}{16}"$
$\frac{1}{2}" < T \leq \frac{3}{4}"$	$\frac{1}{4}"$
$\frac{3}{4}" < T \leq 1\frac{1}{2}"$	$\frac{5}{16}"$
$1\frac{1}{2}" < T \leq 2\frac{1}{4}"$	$\frac{3}{8}"$
$2\frac{1}{4}" < T \leq 6"$	$\frac{1}{2}"$

IN ADDITION TO SIZES PROVIDED IN THE WELDING TABLE, THE MINIMUM FILLET WELD SIZE ON THE BOX GIRDER TOP AND BOTTOM FLANGES SHALL BE 5/16"

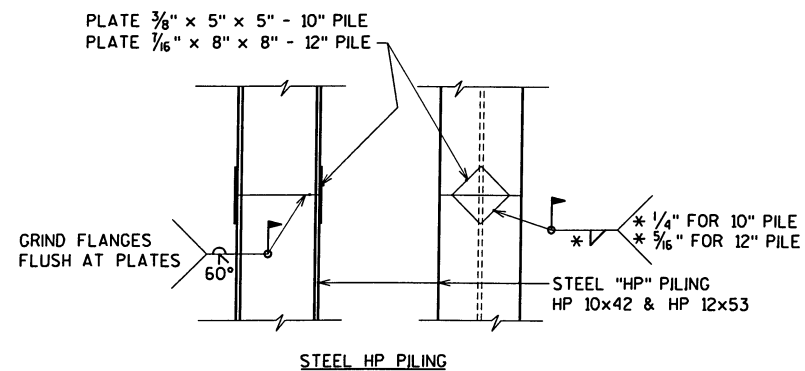
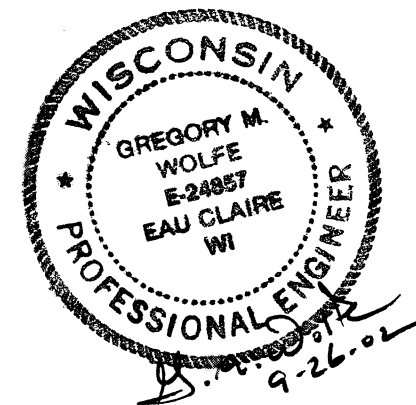
ALL AREAS OF GIRDER WEB WITHIN 12" OF A COMPLETE PENETRATION WELD SHALL BE SCANNED FOR LAMINATIONS USING APPROVED UT PROCEDURES.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-202-0001			
Const. Spec.	WIS. 1996	Drawn By	PG/NH
		Plans Checked	NDH
PROFILE GRADE LINES AND GENERAL NOTES			SHEET 4 OF 43

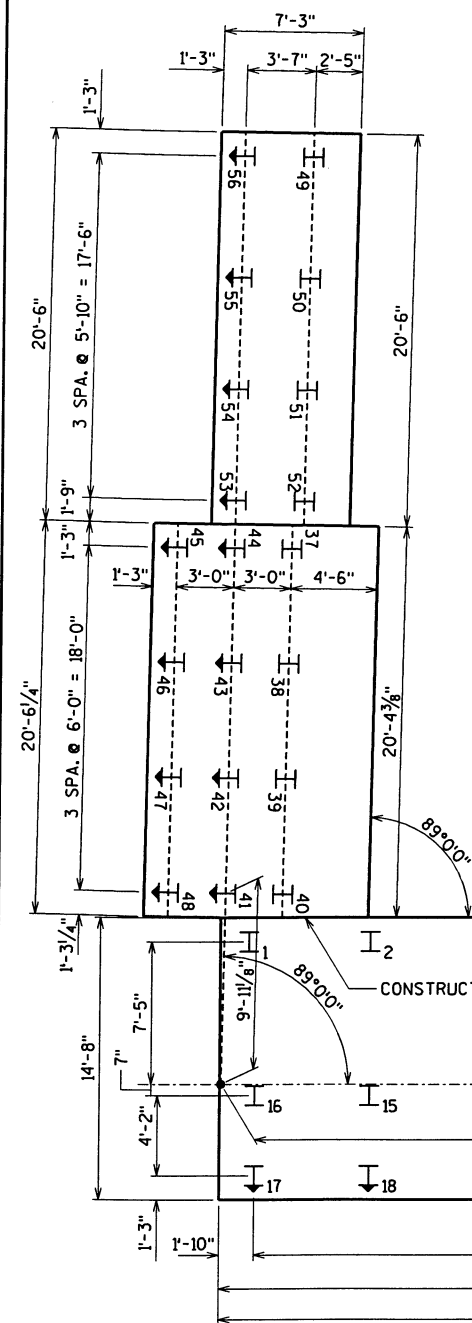
SCALE
PLOTTER
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DATE -
REV
DON

5200-07-71

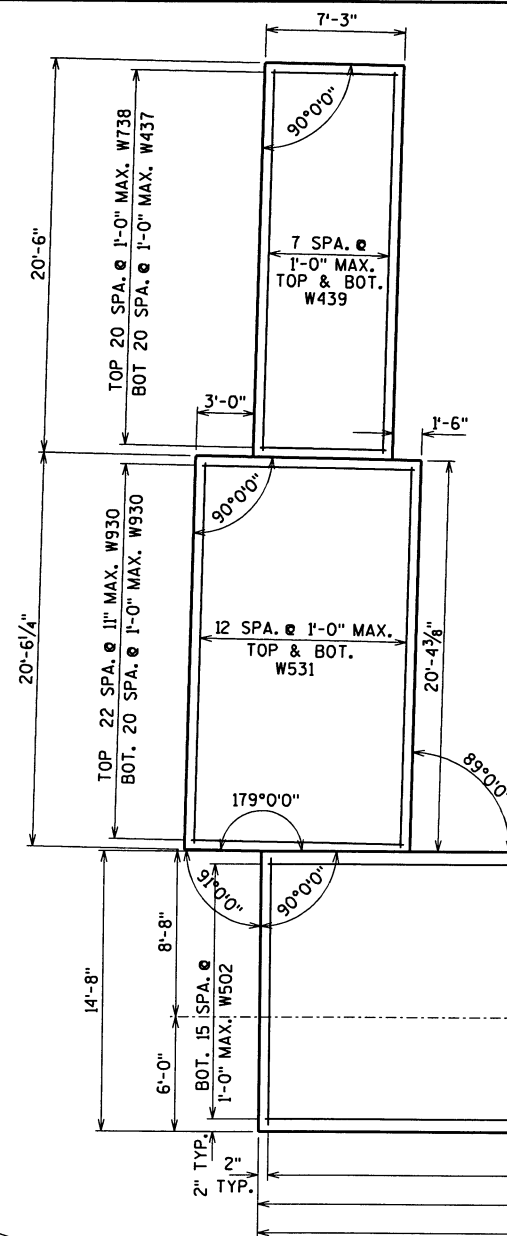
74



PILE SPLICE DETAILS



PILE PLAN



FOOTING PLAN

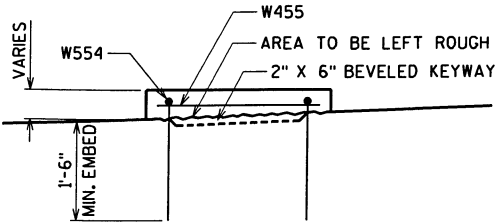
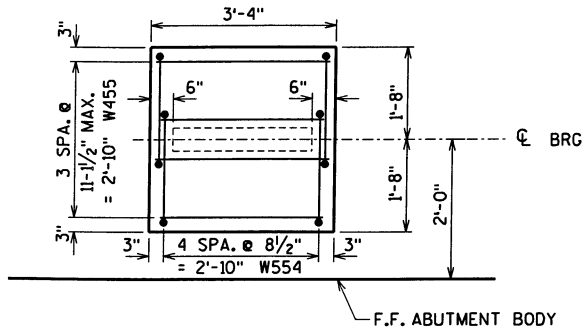
TANGENT LINE - TAN. TO R
E.B. LANE USH 14 AT
STA. 43+20.07

STA. 43+20.07

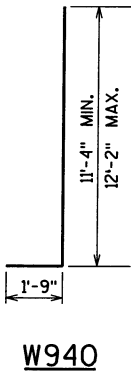
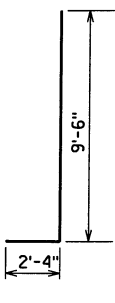
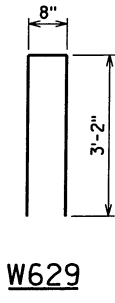
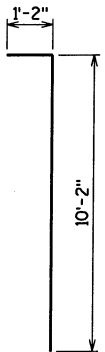
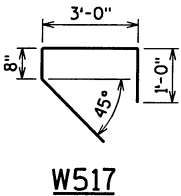
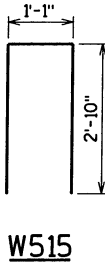
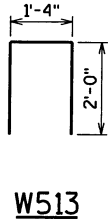
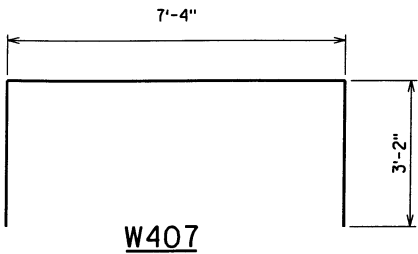
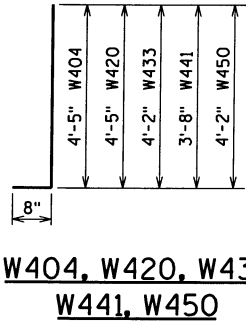
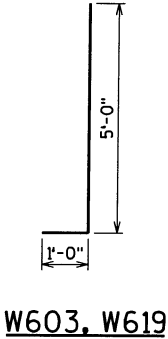
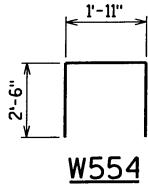
INDICATES BATTERED PILE.
BATTER 3" PER FOOT IN
DIRECTION SHOWN.

NOTE: ABUTMENT PILING TO BE HP 12 X 53 STEEL PILING,
DRIVEN TO A MIN. BRG. VALUE OF 70 TONS PER PILE.
EST. LENGTH 135 FT.
WINGWALL PILE TO BE HP 12 X 53 STEEL PILING,
DRIVEN TO A MIN. BRG. VALUE OF 35 TONS PER PILE.
EST. LENGTH 90 FT. PILES 25 THRU 48.
EST. LENGTH 100 FT. PILES 49 THRU 56.

Cedar corporation		604 Wilson Avenue Menomonie, Wisconsin 54751	
engineers • architects • planners • environmental specialists land surveyors • landscape architects • interior designers		715-235-9081 800-472-7312 FAX 715-235-2727 www.cedarcorp.com	
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-32-202-0001			
CONST. SPEC.	1996	DRAWN BY	PKF
PLANS CK'D.		TLP	
WEST ABUTMENT		SHEET 8 OF 43	



PEDESTAL DETAIL
(TYPICAL)



WEST ABUTMENT
BILL OF BARS

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST DIGIT OF A THREE-DIGIT BAR MARK
OR THE FIRST TWO DIGITS OF A FOUR-DIGIT
BAR MARK SIGNIFIES THE BAR SIZE.

26460 LB UNCOATED				5060 LB COATED			LOCATION
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	BUNDLE	
W701		69	14-4				FOOTING
W502		16	45-4				FOOTING
W603		68	5-10	X			BODY DOWEL BF
W404		46	5-0	X			BODY DOWEL FF
W605		68	8-11				BODY VERT. BF
W406		46	8-11				BODY VERT. FF
W407		68	13-6	X			BODY STIRRUP
W508		18	44-6				BODY HORIZ.
W509		2	28-0				BODY HORIZ.
W610		8	44-6				BODY HORIZ. TOP
W611	X	68	13-5				BACKWALL VERT. BF
W512	X	68	13-5				BACKWALL VERT. FF
W513	X	68	5-1	X			BACKWALL STIRRUP
W414	X	22	44-4				BACKWALL HORIZ. FF & BF
W515	X	45	6-6	X			PAVING BLOCK STIRRUPS
W516	X	5	44-4				BACKWALL HORIZ. BF TOP
W517	X	45	8-6	X			BACKWALL BF TOP
W518	X	5	44-4				PAVING BLOCK HORIZ.
W619		8	5-10	X			WING 1 DOWEL BF
W420		6	5-0	X			WING 1 DOWEL FF
W621		8	13-8				WING 1 VERT. BF
W422		6	13-8				WING 1 VERT. FF
W623		17	10-4				WING 1 HORIZ. BF
W524		12	10-4				WING 1 HORIZ. FF
W625	X	8	10-2	X			WING 1 VERT. BF
W426	X	6	10-2	X			

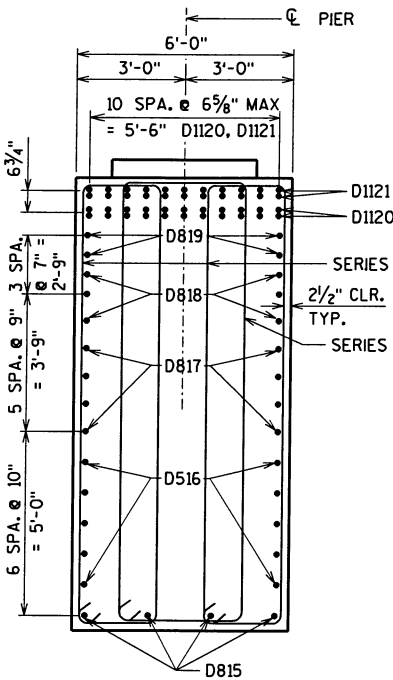
STAIRWAY DESIGNED BY EARTH TECH.
DOWEL BARS D637 & D638 INCLUDED
IN THIS CONTRACT. CONCRETE STOOP,
LANDINGS, AND STAIRS ARE IN CONTRACT 2.

STATE PROJECT NUMBER

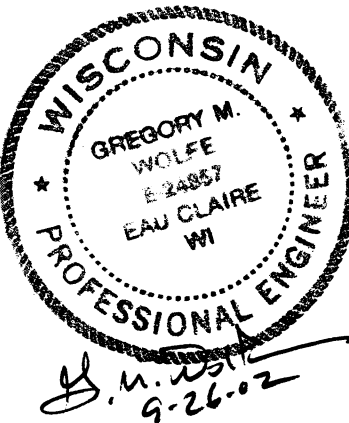
SHEET NO.

5200-07-71

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SECTION D-D



Cedar corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751
715-235-9081
800-412-1312
FAX 715-235-2727
www.cedarcorp.com

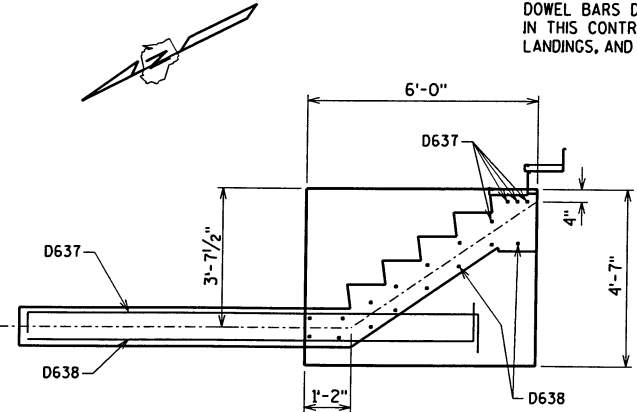
NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

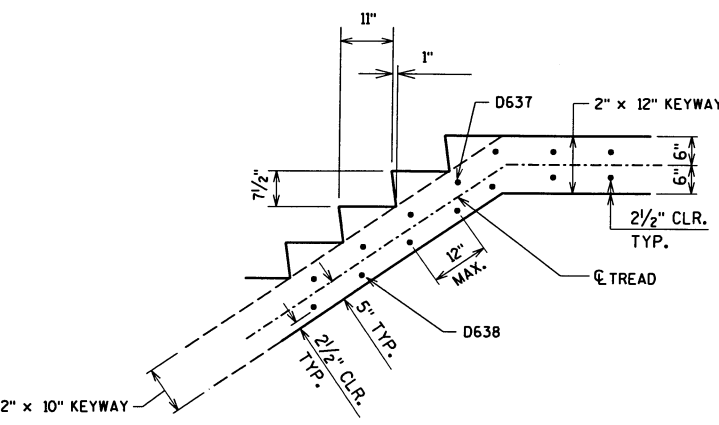
STRUCTURE B-32-202-0001

CONST. SPEC. 1996 DRAWN BY PKF PLANS CK'D. DWM

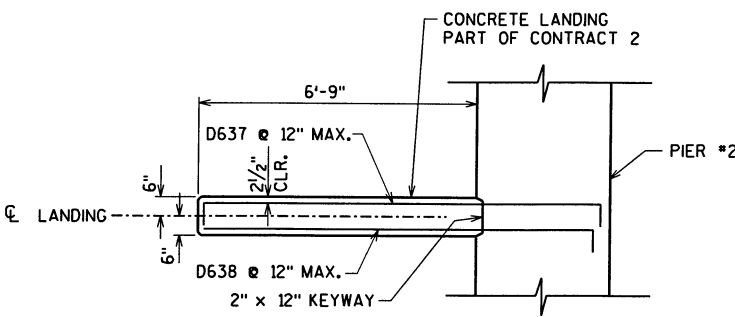
PIER 2 SHEET 13A OF 43



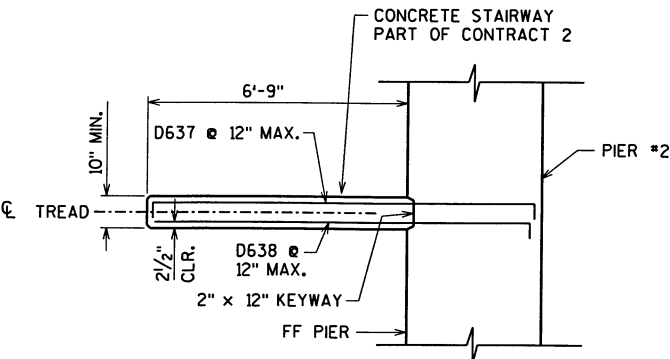
CONCRETE STAIR LANDING
DETAIL @ PIER CAP



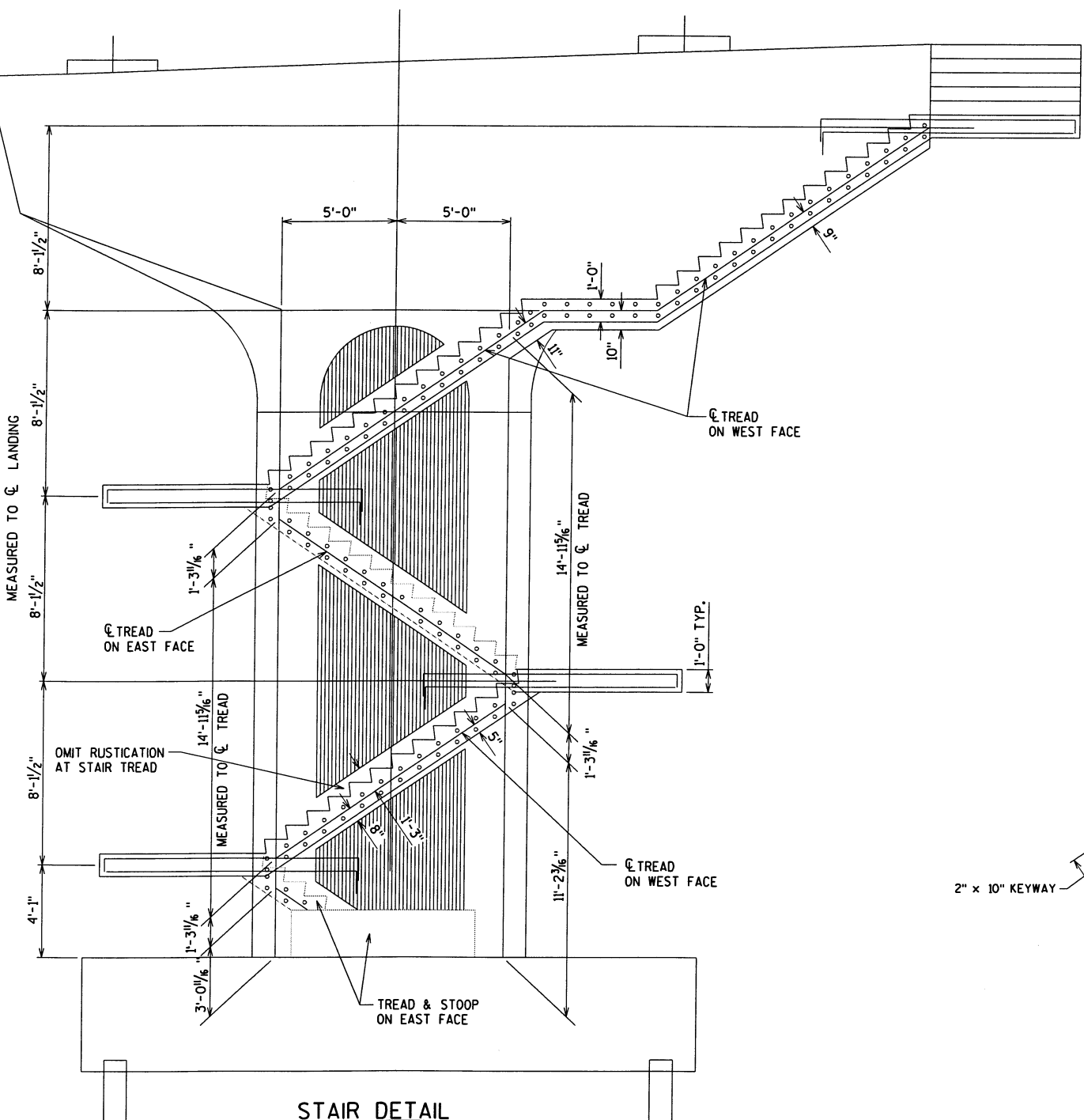
CONCRETE STAIR TREAD DETAIL



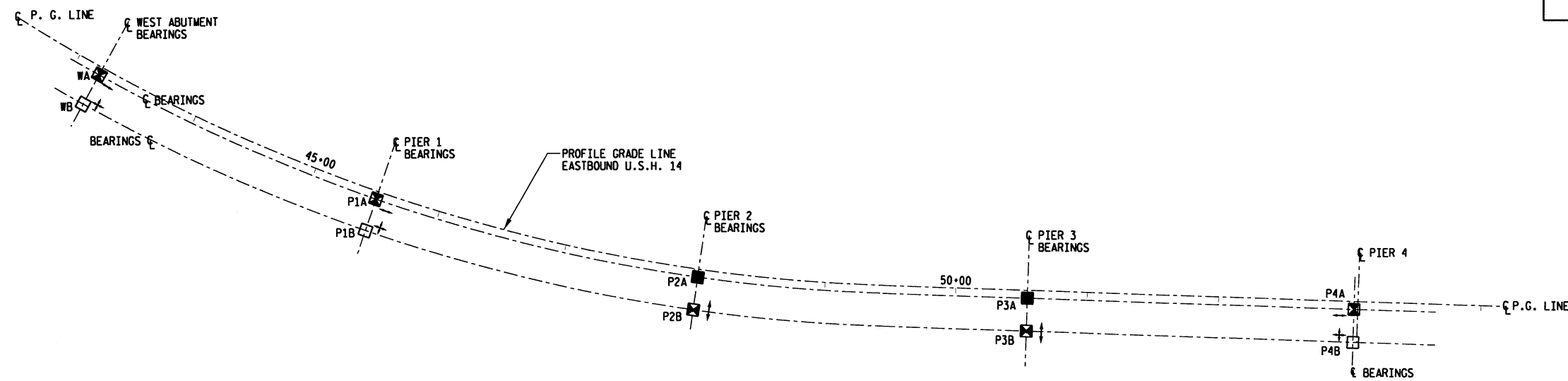
CONCRETE STAIR LANDING DETAIL



CONCRETE STAIR TREAD DETAIL



STAIR DETAIL
(LOOKING EAST)



LEGEND:

- MULTIDIRECTIONAL BEARING
- UNIDIRECTIONAL BEARING
- FIXED BEARING
- DIRECTION OF MOVEMENT

NOTE:
BEARING TOP SLIDING PLATE
TO BE SIZED TO ACCOMMODATE
TEMPERATURE MOVEMENT PLUS
2" EACH SIDE MIN. TYP

BEARING SERVICE LOADS:

* NOTE: ONLY BASIC WIND ON STRUCTURE PROVIDED.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-202-0001			
Const. Spec.	WIS. 1996	Drawn By	PSG
Plans Checked	NDH		
BEARING ARRANGEMENT		SHEET 18 OF 43	

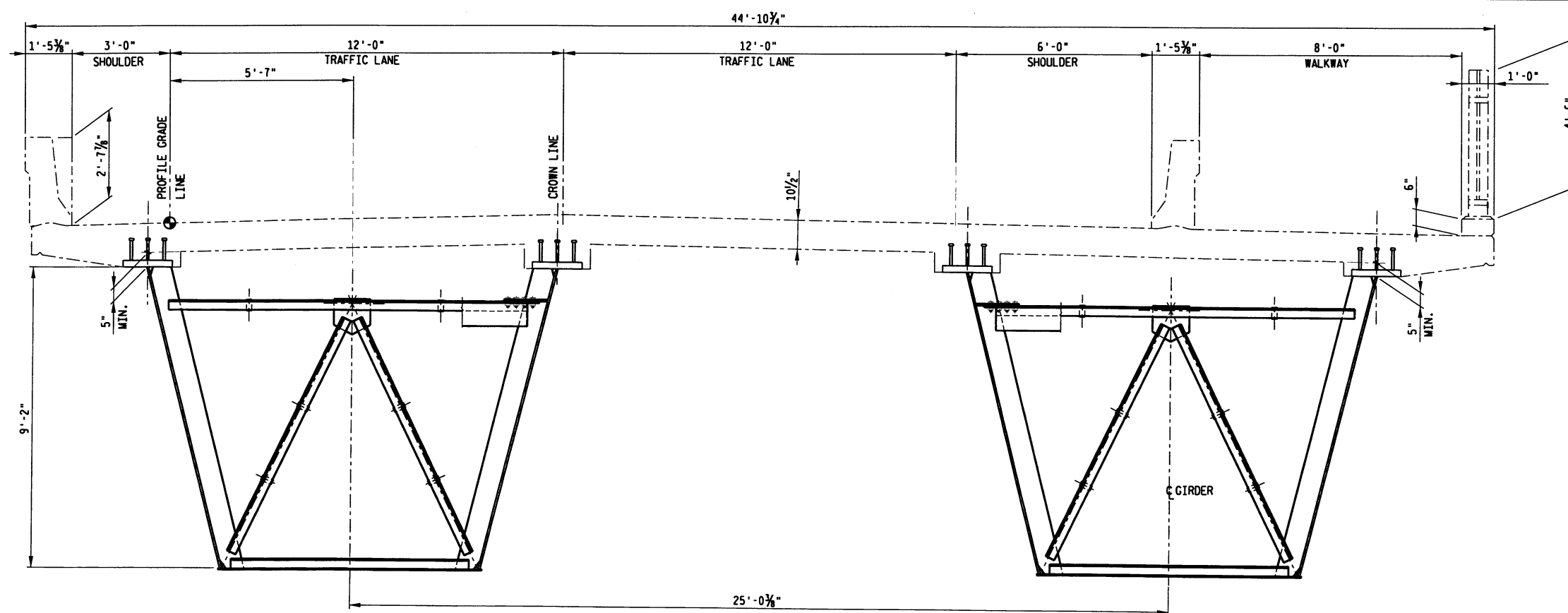
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PLOTTED BY: J. L. HARRIS

DATE: 09/26/2002

BY: J. L. HARRIS

02/26/2002



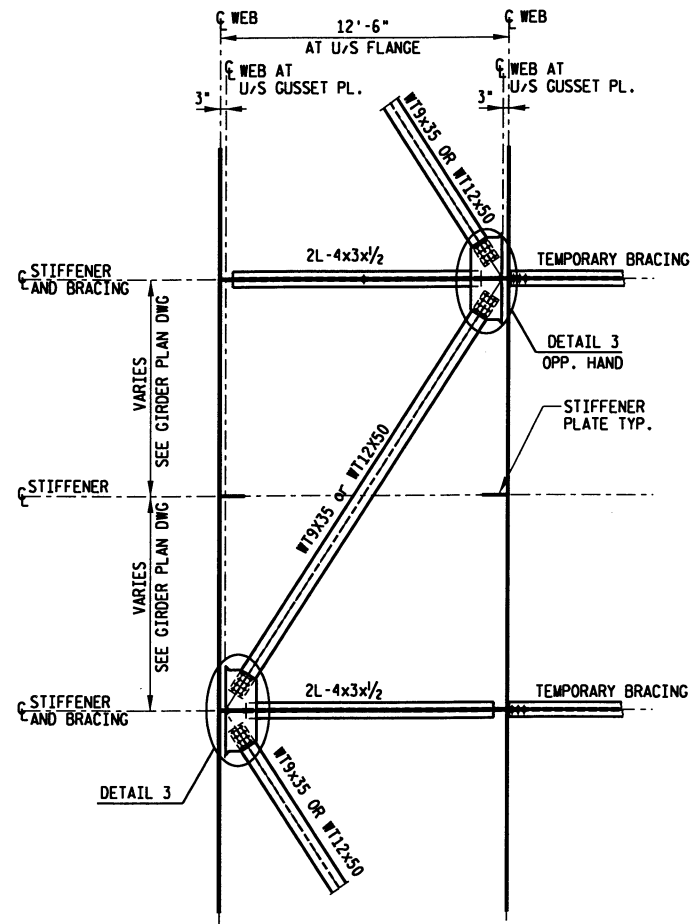
TYPICAL TWO GIRDER DECK SECTION AT MID SPAN

STATE PROJECT NUMBER	SHEET NO.
5200-07-71	87

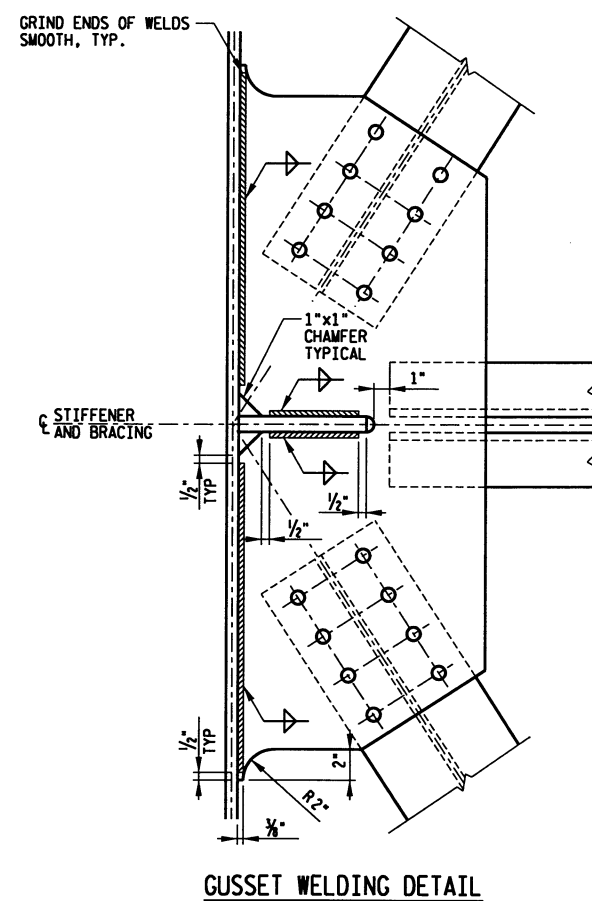
\$REFC08\$
 LEVELS01
 \$REFC02\$
 LEVELS02
 \$REFC03\$
 LEVELS03
 \$REFC04\$
 LEVELS04

SCALE
 PLOTTER
 No Pen Table
 LEVELS00
 PRE
 DON

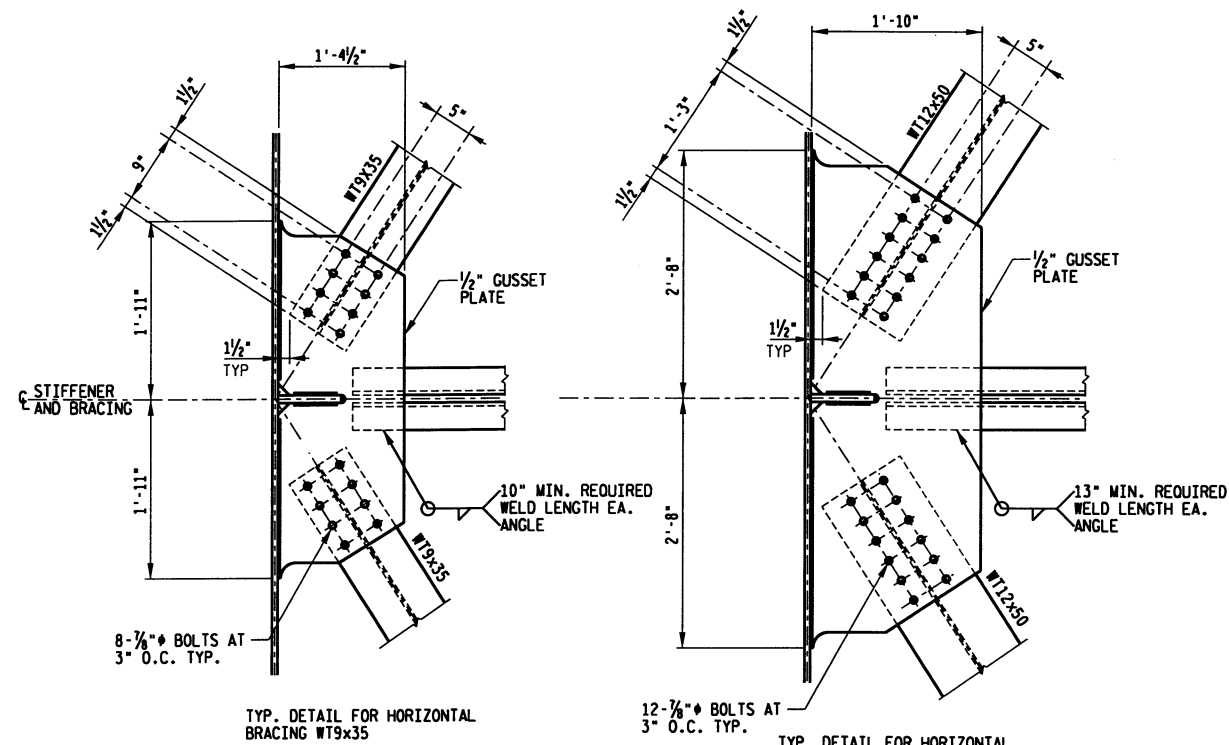
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-202-0001			
Const. Spec.	WIS. 1996	Drawn By	PSG
Plans Checked		NDH	
TYPICAL CROSS SECTIONS			SHEET 20 OF 43



DETAIL 1



GUSSET WELDING DETAIL

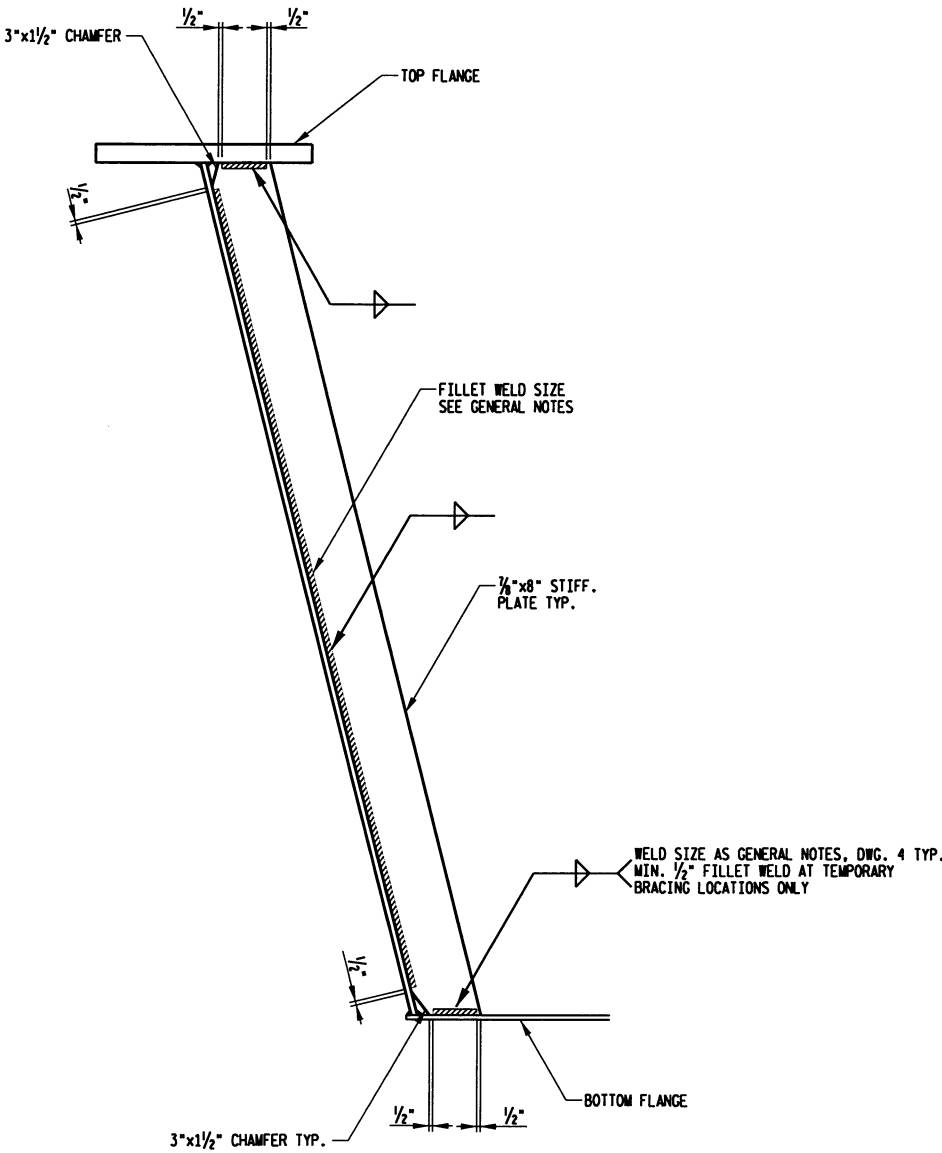


DETAIL 3

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-202-0001			
Const. Spec.	WIS. 1996	Drawn By	PSG
Plans Checked	NDH	SHEET 40 OF 43	

SCALE: 1"=1'-0"
PLOTTER: No Pen Table
DATE: 09/26/2002
FILE: 50601-40.001
DGN: 50601-40.001

STATE PROJECT NUMBER	SHEET NO.
5200-07-71	108



**TYPICAL STIFFENER DETAIL
FOR 9'-2" DEEP BOX GIRDER**

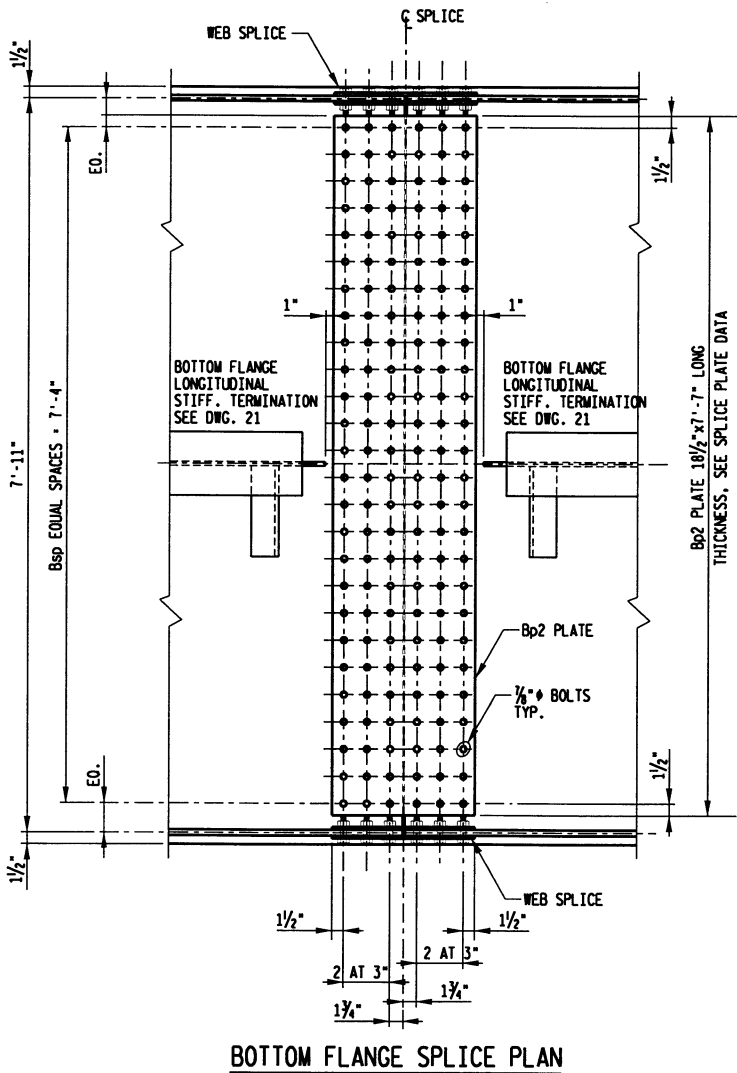
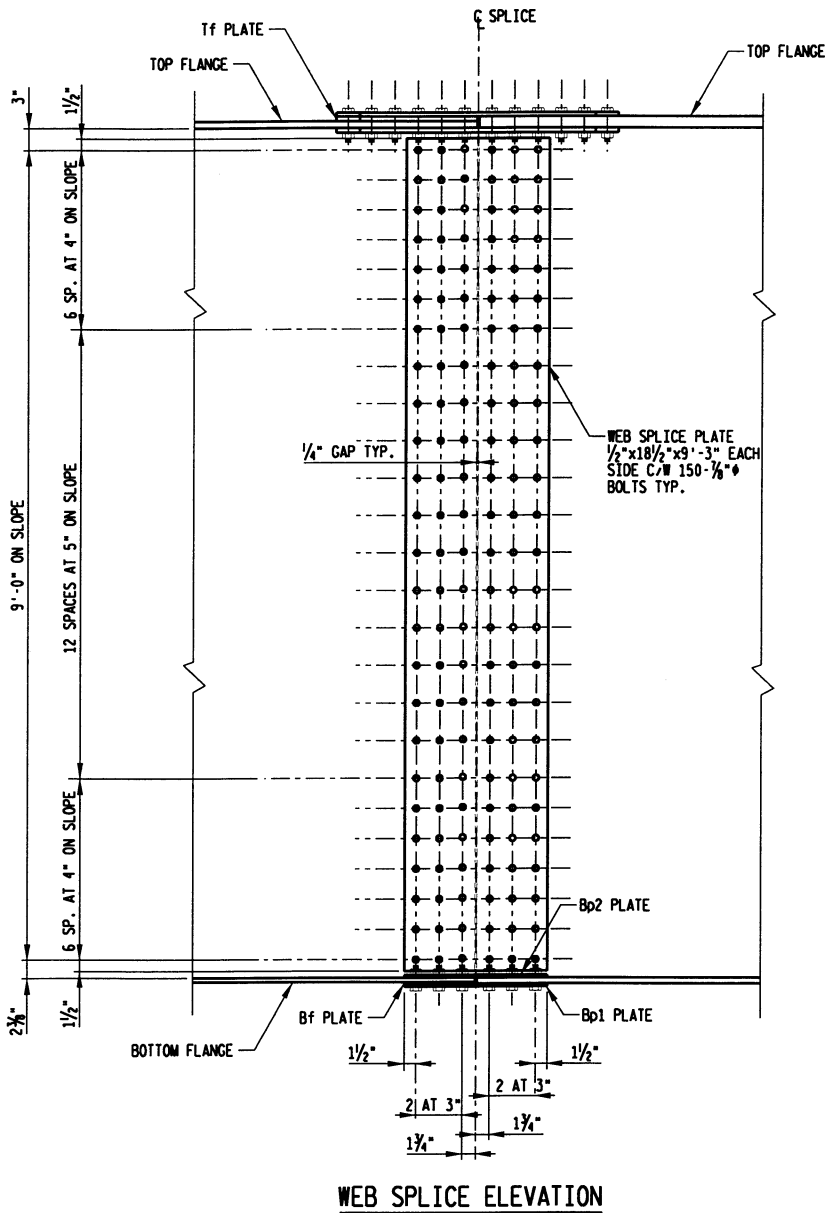
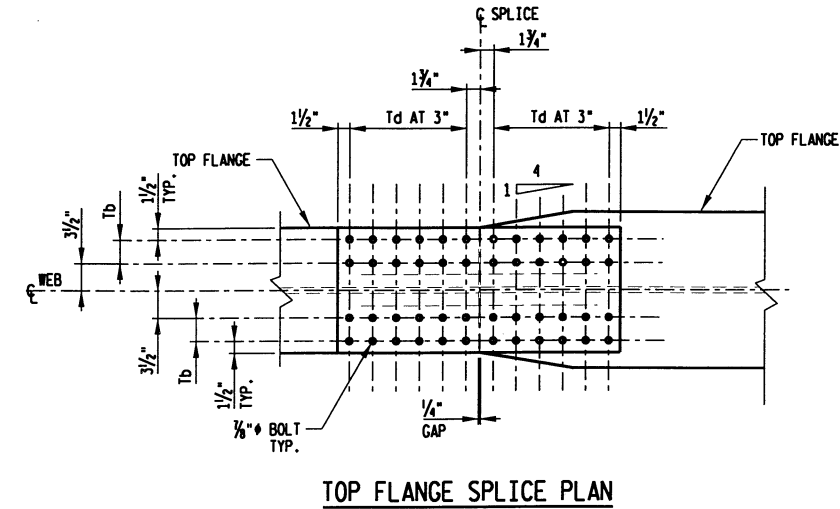
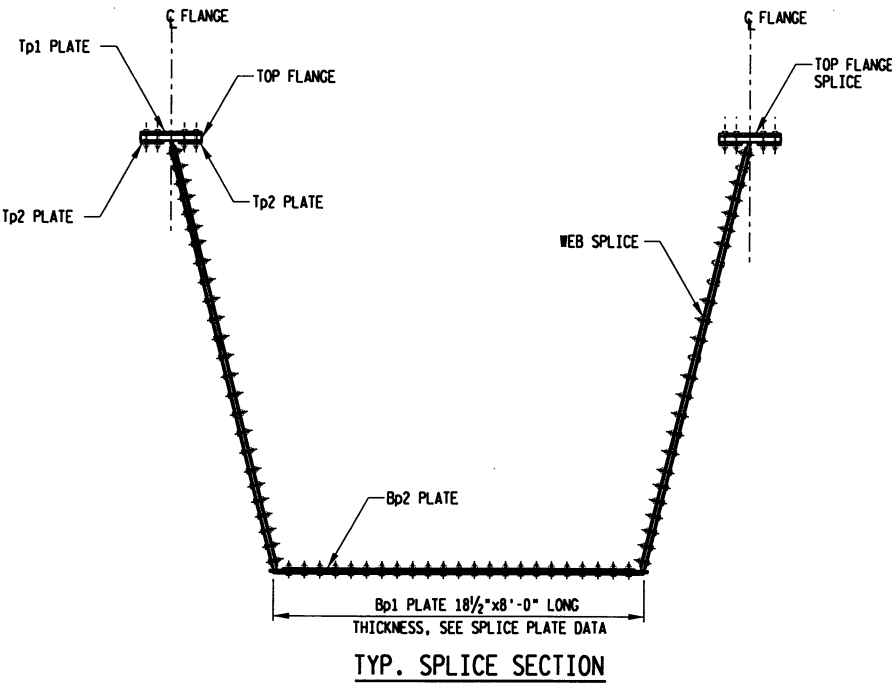
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-202-0001			
Const. Spec.	WIS. 1996	Drawn By	PSG
		Plans Checked	NDH
TRANSVERSE STIFFENER PLATE DETAIL			SHEET 41 OF 43

\$\$\$\$\$\$
 LEVELS00
 \$\$\$\$0249
 LEVELS02
 \$\$\$\$0349
 LEVELS03
 \$\$\$\$0449
 LEVELS04

SCALE
 PLOTTER
 No Pen Table
 DATE
 LEVELS00
 PRE
 DON

SPLICE PLATE DATA

SPLICE NUMBER	PLATE THICKNESS Tp1 AND Tp2	TOP FLANGE		FILLER PLATE THK. "Tf"	NUMBER OF BOLTS	BOTTOM FLANGE			
		"Tb"	"Td"			PLATE THICKNESS Bp1 AND Bp2	No. OF SPACING "Bsp"	FILLER PLATE THK. "Bf"	NUMBER OF BOLTS
SP 1	3/4"	5"	5	1/8"	48	3/8"	21	1/8"	132
SP 2	3/4"	5"	5	1/8"	48	1/2"	21	3/8"	132
SP 3	1/2"	3"	3	3/4"	32	3/8"	18	1/2"	114
SP 4	1/2"	3"	3	1/8"	32	3/8"	18	1/4"	114
SP 5	1/2"	3"	3	1/8"	32	3/8"	18	1/4"	114
SP 6	1/2"	3"	3	3/8"	32	3/8"	18	1/2"	114
SP 7	3/4"	5"	5	3/8"	48	1/2"	21	3/8"	132
SP 8	3/4"	4"	5	1/8"	48	3/8"	22	1/8"	138



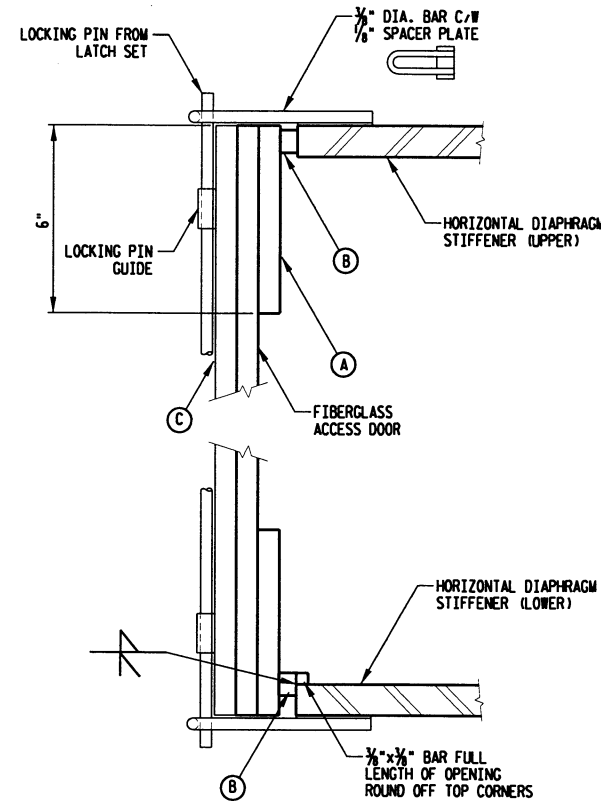
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-202-0001			
Const. Spec.	WIS. 1996	Drawn By PSG	Plans Checked NDH
GIRDER SPLICE DETAILS			SHEET 42 OF 43

SCALE
PLOTTER
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DATE: 11/1/00
PREP: JCL
CHK: JCL
APP: JCL
DON: JCL

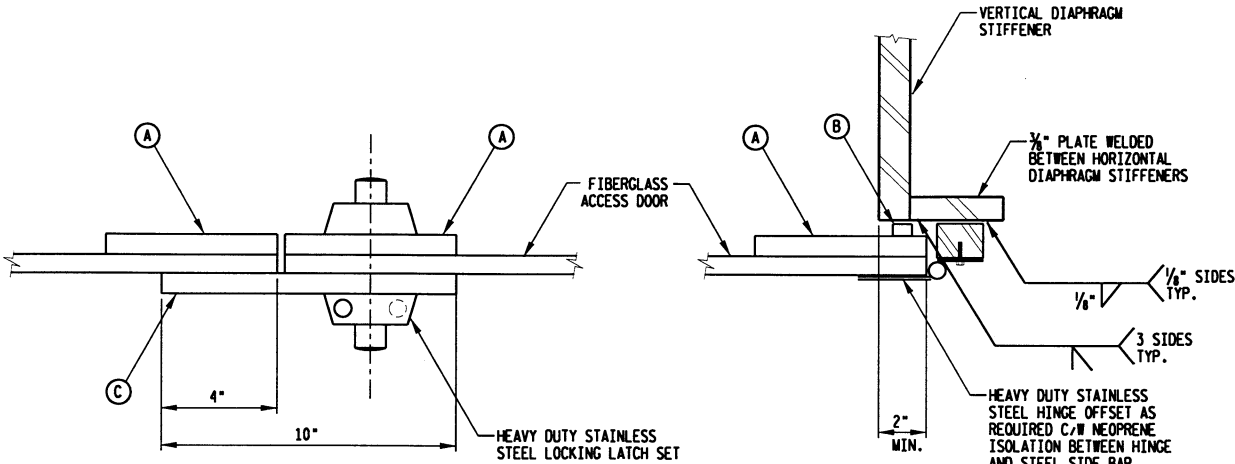
STATE PROJECT NUMBER	SHEET NO.
5200-07-71	110

LEGEND

- (A) 6" WIDE REINFORCED FULL PERIMETER OF DOOR WITH FIBERGLASS MATERIAL SAME AS DOOR THICKNESS.
- (B) 1/4"x3/4" NEOPRENE SEAL ATTACHED ALL AROUND PERIMETER OF FIBERGLASS DOOR TO ATTAIN A WATERTIGHT FIT.
- (C) 10" WIDE FIBERGLASS MATERIAL, THICKNESS TO MATCH DOOR. FIBERGLASS STRIP TO BE BONDED TO SAME DOOR AS DOOR WITH LATCH.



SECTION THRU TOP AND
BOTTOM OF ACCESS DOOR



HINGE DETAIL

ACCESS DOOR ELEVATION

(FROM INTERIOR OF 9'-2" GIRDER)

DOOR SHALL HAVE A WATERTIGHT FIT ALL AROUND.

FIBERGLASS ACCESS DOOR INCLUDING STAINLESS STEEL HARDWARE AND NEOPRENE SEAL SHALL BE PAID FOR AS "ACCESS DOORS", EACH.

DOORS REQUIRED AT:

WEST ABUTMENT - SEGMENTS W1 NORTH & SOUTH

PIER 4 - SEGMENTS W7 NORTH & SOUTH

TOTAL OF 4 SETS OF DOORS REQUIRED

5200-07-71
LEVEL 501
5200-07-71
LEVEL 502
5200-07-71
LEVEL 503
5200-07-71
LEVEL 504
5200-07-71
LEVEL 505

SCALE
PLOTTER
No Port Table
DATE : 09/26/2002
FILE : 5200-07-71
DGN : 5200-07-71