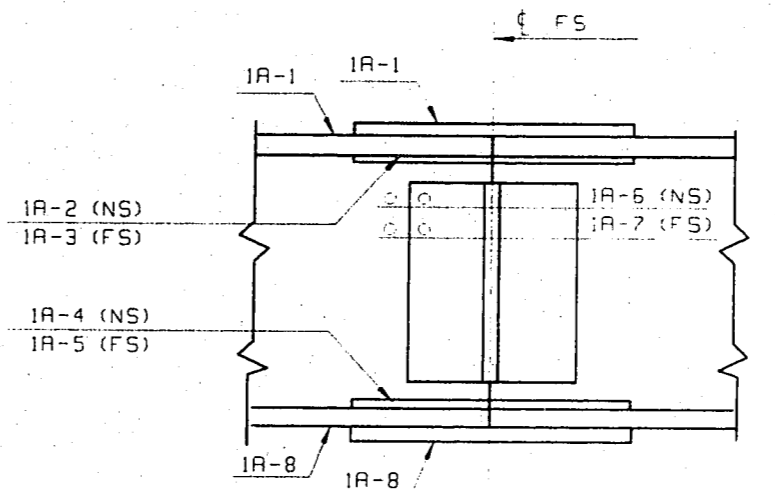


LINE	BL1	BL2	BL3	V1	V2	V3	V4	BB1	BB2	BCF1
1	101'-9 3/8	100'-0 5/8	80'-4 11/16	1 1/2	8 1/16	7 9/16	5 3/8	12'-2	270'-0 1/2	43'-7 5/8
2	101'-9 3/8	100'-0 9/16	80'-4 11/16	1 1/16	9 1/16	8 11/16	6 1/16	12'-2	270'-0 3/8	43'-7 5/8
3	101'-9 3/8	100'-0 9/16	80'-4 11/16	1 1/16	9 1/16	8 11/16	6 1/16	12'-2	270'-0 3/8	43'-7 5/8
4	101'-9 3/8	100'-0 9/16	80'-4 11/16	1 1/16	9 1/16	8 11/16	6 1/16	12'-2	270'-0 3/8	43'-7 5/8
5	101'-9 3/8	100'-0 9/16	80'-4 11/16	1 1/16	9 1/16	8 11/16	6 1/16	12'-2	270'-0 3/8	43'-7 5/8
6	101'-9 3/8	100'-0 9/16	80'-4 11/16	1 1/2	8 1/16	7 9/16	5 3/8	12'-2	270'-0 1/2	43'-7 5/8

LINE	"A"	"B"	"C"
1	A5	A15	A18
2	A7	A16	A19
3	A9	B16	B19
4	A11	A17	A20
5	A13	B17	B20
6	AA5	AA15	AA18



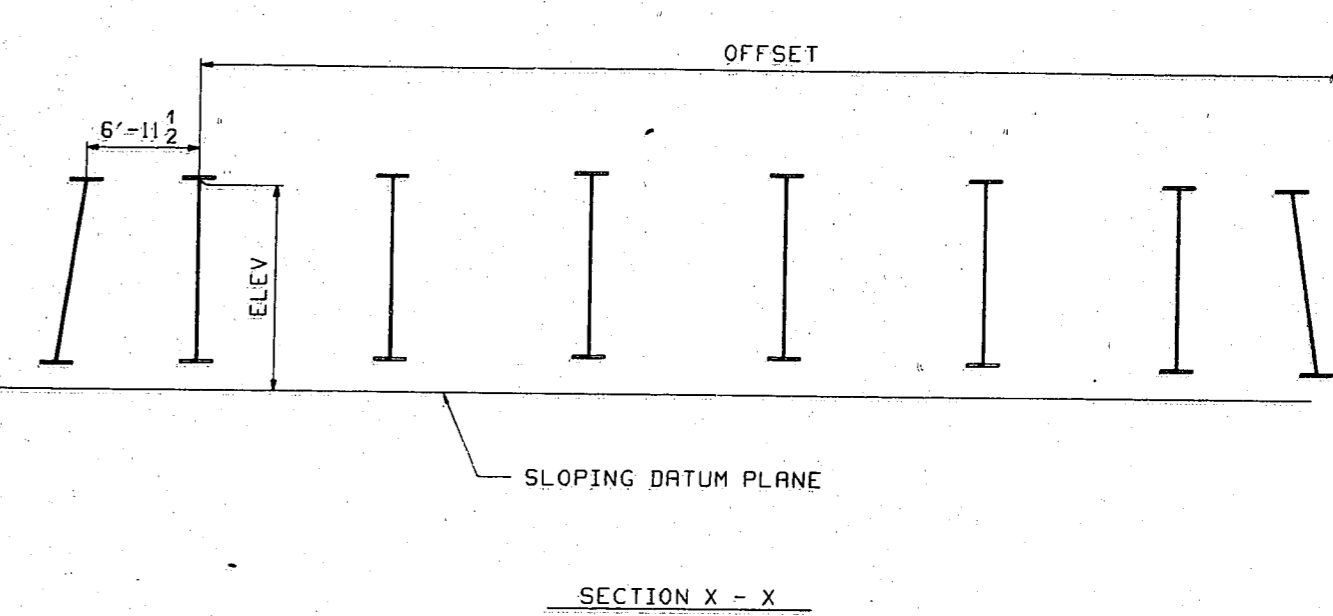
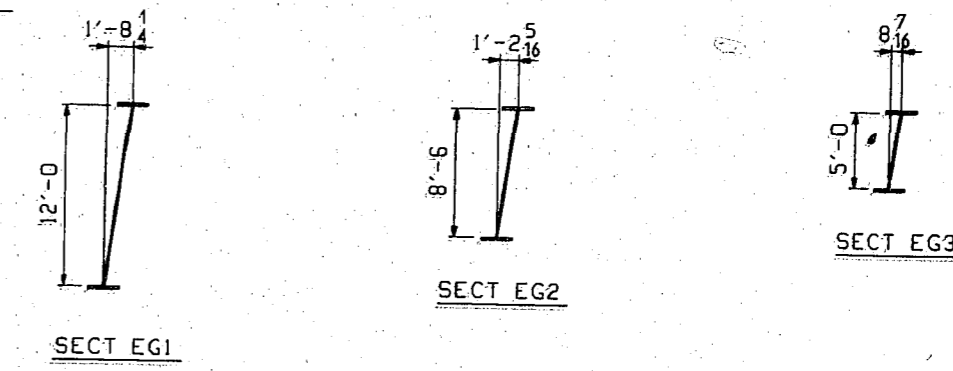
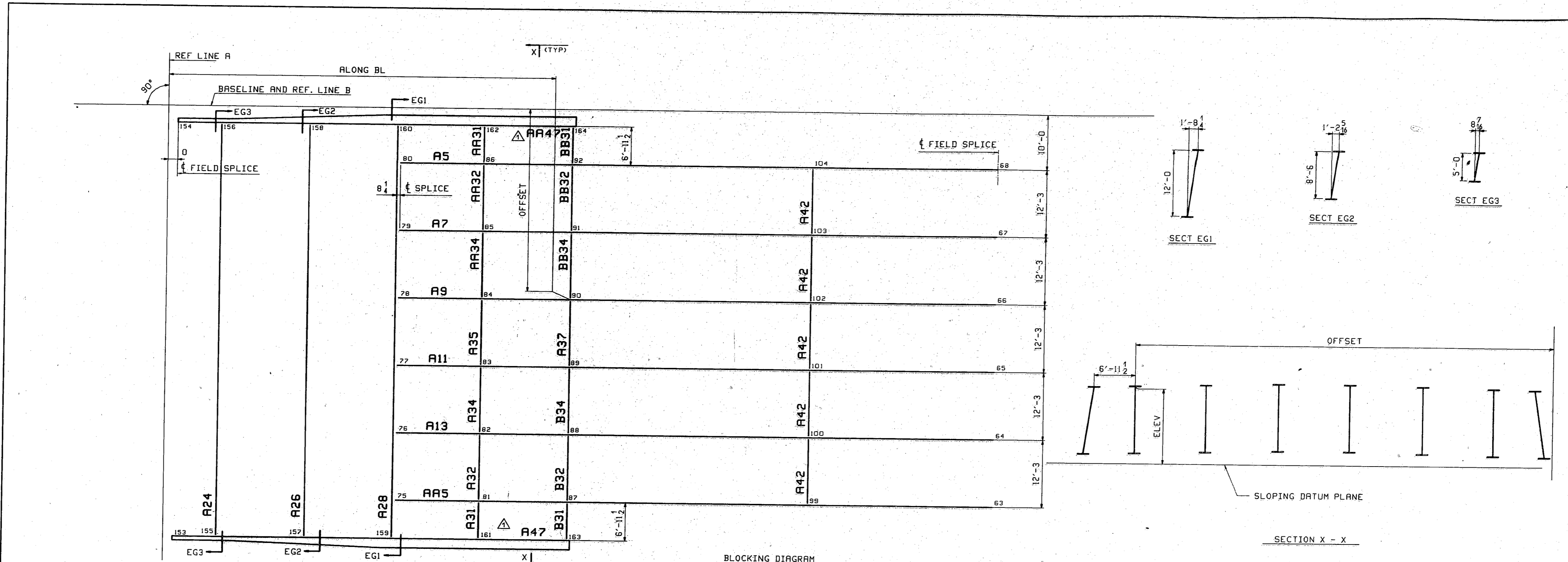
THE INTERSECTION OF GIRDER LINE NUMBER AND SPLICE LINE LETTER FORM THE SPLICE IDENTIFICATION MARK. THIS MARK WILL APPEAR ON ENDS OF ALL GIRDERS (THUS IA). ALL SPLICE MATERIAL WILL HAVE THE SPLICE MARK PLUS A DIFFERENT SUFFIX NUMBER FOR EACH INDIVIDUAL PIECE OF SPLICE MATERIAL (THUS IA-1). CORRESPONDING MARKS WILL BE AFFIXED TO GIRDERS. FOR PROPER PLACING OF SPLICE MATERIAL, THE MATCHMARK MUST BE KEPT TOWARD THE OUTSIDE AND IN A POSITION CLOSELY RELATED WITH ITS CORRESPONDING MARK ON THE GIRDER.

NOTES
FOR GENERAL NOTES SEE DWG GNI.
ALL DIMENSIONS GIVEN AT BOTTL OF BOTTL WEB.

BLOCKING DIAGRAM			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG	WHJ		9-01
07/31/98	08/01/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.R. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00KBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: 1/2" ø (LUN)	
Contr. No. 672		Sh. BDI of	

REVISE GIRDER LINE DESIGNATIONS FOR MATCH MARK. (HL/WHJ)

TENSOR 1818



GIRDER G1 (A5)			
POINT	OFFSET	ALONG BL	ELEV
80	10'-0	38'-2 1/4	14'-0
86	10'-0	52'-6 1/4	14'-0 11/16
92	10'-0	67'-6 5/16	14'-1 1/4
104	10'-0	108'-8 1/4	14'-1 7/16
68	10'-0	140'-1 1/16	14'-0

GIRDER G2 (A7)			
POINT	OFFSET	ALONG BL	ELEV
79	22'-3	38'-2 1/8	14'-2 7/8
85	22'-3	52'-6 1/8	14'-3 13/16
91	22'-3	67'-6 3/16	14'-4 1/2
103	22'-3	108'-8 1/8	14'-5 3/16
67	22'-3	140'-1	14'-3 15/16

GIRDER G3 (A9)			
POINT	OFFSET	ALONG BL	ELEV
78	34'-6	38'-2 1/16	14'-5 15/16
84	34'-6	52'-6 1/16	14'-6 7/8
90	34'-6	67'-6 1/8	14'-7 9/16
102	34'-6	108'-8 1/16	14'-8 1/4
66	34'-6	140'-0 1/16	14'-7

GIRDER G4 (A11)			
POINT	OFFSET	ALONG BL	ELEV
77	46'-9	38'-2 1/16	14'-5 15/16
83	46'-9	52'-6 1/16	14'-6 7/8
89	46'-9	67'-6 1/8	14'-7 9/16
101	46'-9	108'-8 1/16	14'-8 1/4
65	46'-9	140'-0 1/16	14'-7

GIRDER G5 (A13)			
POINT	OFFSET	ALONG BL	ELEV
76	59'-0	38'-2 1/8	14'-2 7/8
82	59'-0	52'-6 1/8	14'-3 13/16
88	59'-0	67'-6 3/16	14'-4 1/2
100	59'-0	108'-8 1/8	14'-5 3/16
64	59'-0	140'-1	14'-3 15/16

GIRDER G6 (AA5)			
POINT	OFFSET	ALONG BL	ELEV
75	71'-3	38'-2 1/4	14'-0
81	71'-3	52'-6 1/4	14'-0 11/16
87	71'-3	67'-6 5/16	14'-1 1/4
99	71'-3	108'-8 1/4	14'-1 7/16
63	71'-3	140'-1 1/16	14'-0

WEST EDGE GIRDER (AA7) Δ			
POINT	OFFSET	ALONG BL	ELEV
154	3'-0 1/2	0	13'-6 1/8
156	3'-0 1/2	7'-6 3/16	13'-6 1/2
158	3'-0 1/2	22'-6 1/4	13'-7 1/4
160	3'-0 1/2	37'-6 1/4	13'-7 15/16
162	3'-0 1/2	52'-6 1/16	13'-8 11/16
164	3'-0 1/2	67'-6 7/16	13'-9 3/16

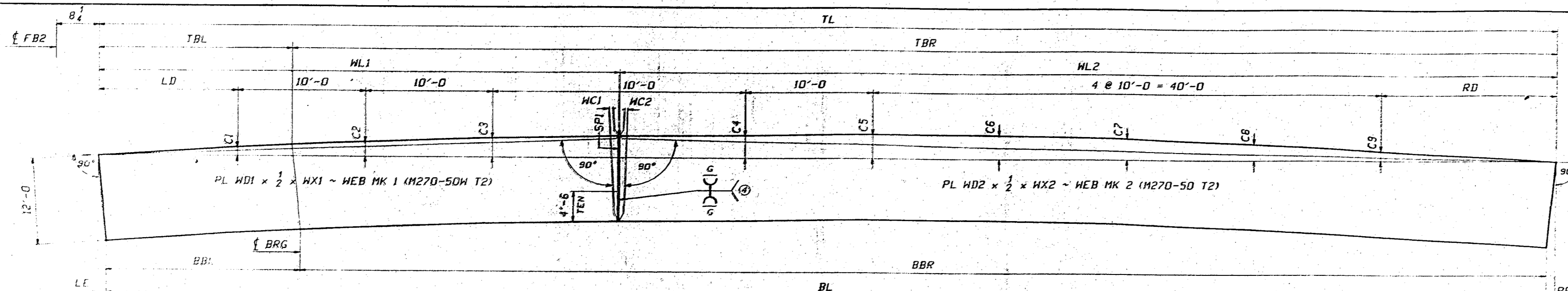
EAST EDGE GIRDER (AA47) Δ			
POINT	OFFSET	ALONG BL	ELEV
153	78'-2 1/2	0	13'-6 1/8
155	78'-2 1/2	7'-6 3/16	13'-6 1/2
157	78'-2 1/2	22'-6 1/4	13'-7 1/4
159	78'-2 1/2	37'-6 1/4	13'-7 15/16
161	78'-2 1/2	52'-6 1/16	13'-8 11/16
163	78'-2 1/2	67'-6 7/16	13'-9 3/16

BLOCKING DIAGRAM

- NOTES:
- 1) ALL DIMENSIONS ARE RELATIVE TO A ROTATED DATUM PLANE.
 - 2) ALL DIMENSIONS ARE GIVEN TO THE ∇ WEB @ THE UNDERSIDE OF THE TOP FLANGE (UN).
 - 3) ALL LONGITUDINAL EXTENSION DIMENSIONS (ALONG BL) ARE GIVEN FROM REF. LINE "A".
 - 4) ALL TRANSVERSE EXTENSION DIMENSIONS (OFFSETS) ARE GIVEN FROM REF. LINE "B".
 - 5) ALL ELEVATIONAL OFFSETS (ELEV) ARE GIVEN TO THE UNDERSIDE OF TOP FLANGE FROM A ROTATED DATUM PLANE BELOW THE ASSEMBLY.

Δ REVISED GIRDER MARKS		PHG	MMJ
BLOCKING DIAGRAM			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG	MMJ		
07/21/98	08/01/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVLESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: 15" ϕ (LUN)	
Cont'r. No. 672		SR. BD2 of	

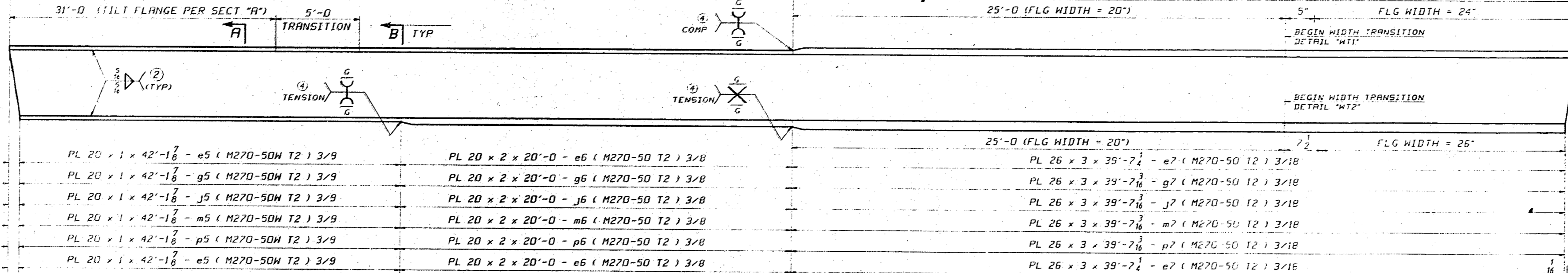
TENSOR 1819



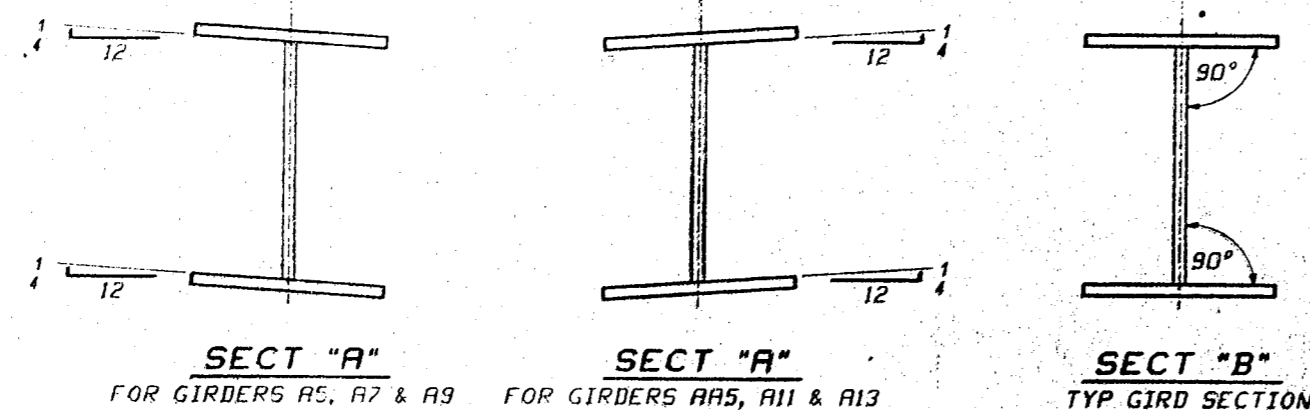
WEB CUTTING DIAGRAM FOR A5 THRU AAS

MARK	TL	BL	LE	RE	ML1	ML2	WD1	WX1	WD2	WX2	SP1	MC1	MC2	TBL	TBR	BBL	BBR	LD	RD	C1	C2	C3	C4	C5	C6	C7	C8	C9	WEB MK 1	PG/LINE	WEB MK 2	PG/LINE
A5	101'-10 5/8"	101'-9 7/8"	11 1/8"	11 1/8"	37'-5 7/8"	64'-4 3/4"	144 3/8"	37'-5 7/8"	144 3/8"	64'-4 3/4"	1 1/8"	7 1/8"	7 1/8"	11'-9 7/8"	90'-0 3/4"	12'-2"	89'-7 7/8"	10'-11 5/8"	10'-11 5/8"	9 1/8"	15 1/8"	14 1/8"	12 1/8"	15 1/8"	19 1/8"	17 1/8"	11 1/8"	e1	3/4	e2	3/3	
A7	101'-10 11/16"	101'-9 1/4"	7 3/8"	7 3/8"	37'-5 7/8"	64'-4 13/16"	144 1/16"	37'-5 7/8"	144 1/16"	64'-4 13/16"	1 1/8"	7 1/8"	7 1/8"	11'-9 7/8"	90'-0 13/16"	12'-2"	89'-7 1/8"	10'-11 5/8"	10'-11 5/8"	8 5/8"	15 1/8"	13 5/8"	15 1/8"	13 5/8"	19 1/8"	17 1/8"	11 1/8"	g1	3/4	g2	3/3	
A9	101'-10 11/16"	101'-9 1/4"	7 3/8"	7 3/8"	37'-5 7/8"	64'-4 13/16"	144 1/16"	37'-5 7/8"	144 1/16"	64'-4 13/16"	1 1/8"	7 1/8"	7 1/8"	11'-9 7/8"	90'-0 13/16"	12'-2"	89'-7 1/8"	10'-11 5/8"	10'-11 5/8"	8 5/8"	15 1/8"	13 5/8"	15 1/8"	13 5/8"	19 1/8"	17 1/8"	11 1/8"	j1	3/4	j2	3/3	
A11	101'-10 11/16"	101'-9 1/4"	7 3/8"	7 3/8"	37'-5 7/8"	64'-4 13/16"	144 1/16"	37'-5 7/8"	144 1/16"	64'-4 13/16"	1 1/8"	7 1/8"	7 1/8"	11'-9 7/8"	90'-0 13/16"	12'-2"	89'-7 1/8"	10'-11 5/8"	10'-11 5/8"	8 5/8"	15 1/8"	13 5/8"	15 1/8"	13 5/8"	19 1/8"	17 1/8"	11 1/8"	m1	3/4	m2	3/3	
A13	101'-10 11/16"	101'-9 1/4"	7 3/8"	7 3/8"	37'-5 7/8"	64'-4 13/16"	144 1/16"	37'-5 7/8"	144 1/16"	64'-4 13/16"	1 1/8"	7 1/8"	7 1/8"	11'-9 7/8"	90'-0 13/16"	12'-2"	89'-7 1/8"	10'-11 5/8"	10'-11 5/8"	8 5/8"	15 1/8"	13 5/8"	15 1/8"	13 5/8"	19 1/8"	17 1/8"	11 1/8"	p1	3/4	p2	3/3	
AAS	101'-10 5/8"	101'-9 7/8"	11 1/8"	11 1/8"	37'-5 7/8"	64'-4 3/4"	144 3/8"	37'-5 7/8"	144 3/8"	64'-4 3/4"	1 1/8"	7 1/8"	7 1/8"	11'-9 7/8"	90'-0 3/4"	12'-2"	89'-7 7/8"	10'-11 5/8"	10'-11 5/8"	9 1/8"	15 1/8"	14 1/8"	12 1/8"	15 1/8"	19 1/8"	17 1/8"	11 1/8"	e1	3/4	e2	3/3	

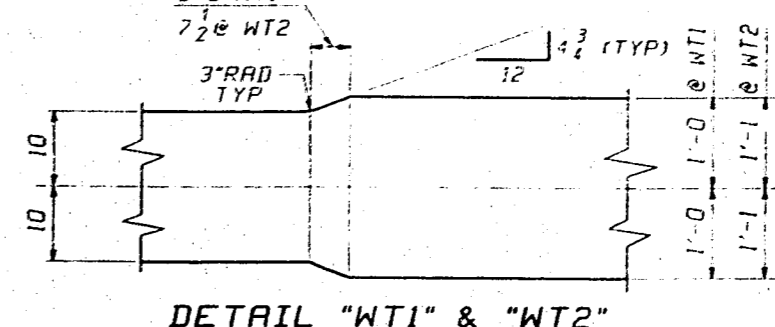
A5	PL 20 x 1 x 61'-9 5/8" - e3 (M270-50H T2) 3/8	PL 24 x 2 x 40'-1" - e4 (M270-50 T2) 3/19
A7	PL 20 x 1 x 61'-9 5/8" - g3 (M270-50H T2) 3/8	PL 24 x 2 x 40'-1 1/16" - g4 (M270-50 T2) 3/19
A9	PL 20 x 1 x 61'-9 5/8" - j3 (M270-50H T2) 3/8	PL 24 x 2 x 40'-1 1/16" - j4 (M270-50 T2) 3/19
A11	PL 20 x 1 x 61'-9 5/8" - m3 (M270-50H T2) 3/8	PL 24 x 2 x 40'-1 1/16" - m4 (M270-50 T2) 3/19
A13	PL 20 x 1 x 61'-9 5/8" - p3 (M270-50H T2) 3/8	PL 24 x 2 x 40'-1 1/16" - p4 (M270-50 T2) 3/19
AAS	PL 20 x 1 x 61'-9 5/8" - e3 (M270-50H T2) 3/8	PL 24 x 2 x 40'-1" - e4 (M270-50 T2) 3/19



A5	PL 20 x 1 x 42'-1 7/8" - e5 (M270-50H T2) 3/9	PL 20 x 2 x 20'-0" - e6 (M270-50 T2) 3/8	PL 26 x 3 x 39'-7 1/8" - e7 (M270-50 T2) 3/18
A7	PL 20 x 1 x 42'-1 7/8" - g5 (M270-50H T2) 3/9	PL 20 x 2 x 20'-0" - g6 (M270-50 T2) 3/8	PL 26 x 3 x 39'-7 1/8" - g7 (M270-50 T2) 3/18
A9	PL 20 x 1 x 42'-1 7/8" - j5 (M270-50H T2) 3/9	PL 20 x 2 x 20'-0" - j6 (M270-50 T2) 3/8	PL 26 x 3 x 39'-7 1/8" - j7 (M270-50 T2) 3/18
A11	PL 20 x 1 x 42'-1 7/8" - m5 (M270-50H T2) 3/9	PL 20 x 2 x 20'-0" - m6 (M270-50 T2) 3/8	PL 26 x 3 x 39'-7 1/8" - m7 (M270-50 T2) 3/18
A13	PL 20 x 1 x 42'-1 7/8" - p5 (M270-50H T2) 3/9	PL 20 x 2 x 20'-0" - p6 (M270-50 T2) 3/8	PL 26 x 3 x 39'-7 1/8" - p7 (M270-50 T2) 3/18
AAS	PL 20 x 1 x 42'-1 7/8" - e5 (M270-50H T2) 3/9	PL 20 x 2 x 20'-0" - e6 (M270-50 T2) 3/8	PL 26 x 3 x 39'-7 1/8" - e7 (M270-50 T2) 3/18



FLANGE DIAGRAM FOR A5 THRU AAS



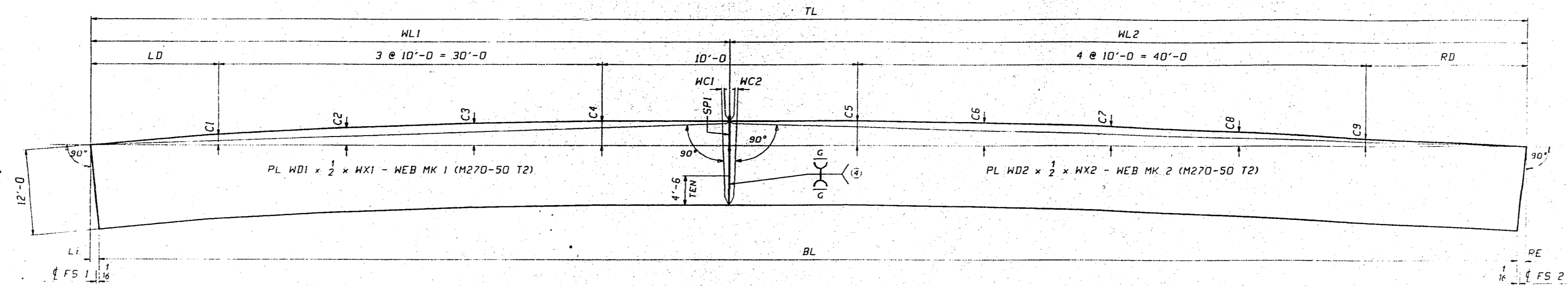
NOTES:
-WORK THIS DRAWING WITH GIRDER DETAILS ON DWGS 5-14.
-FOR GENERAL NOTES SEE DWG GHI.

CAMBEP AND FLANGE DIAGRAM
VINCENTS STEEL CORP.
VINCENTS, IND.

Drawn	Checked	Approved	Revised
HL	TPM		
02/24/98	03/24/98		

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.T. - INDIANA D.O.T.
DAVIESS COUNTY, KY - SPENCER COUNTY, IND
PROJ. OOKBB 00101 501
Shop Plans SEE GHI

Edge Distance AS NOTED Holes 15/16" (LUN)
Contr. No. 672 Sh. C1 of



WEB CUTTING DIAGRAM FOR A15 THRU A15

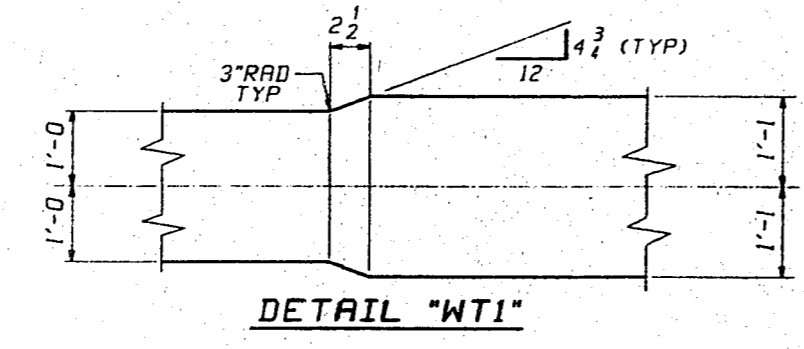
MARK	TL	BL	LE	RE	WL1	WL2	WD1	WX1	WD2	WX2	SP1	WC1	WC2	LD	RD	C1	C2	C3	C4	C5	C6	C7	C8	C9	WEB MK 1	PG/LINE	WEB MK 2	PG/LINE
A15	100'-0 ⁵ / ₁₆	100'-0 ² / ₁₆	1 ¹ / ₂	5 ¹⁶ / ₁₆	49'-11 ¹⁵ / ₁₆	50'-1 ³ / ₈	144 ¹ / ₈	49'-11 ¹⁵ / ₁₆	144 ¹ / ₈	50'-1 ³ / ₈	3 ⁴ / ₁₆	3 ³ / ₁₆	3 ³ / ₁₆	10'-0 ⁵ / ₈	10'-0 ¹¹ / ₁₆	5 ⁵ / ₁₆	9 ⁹ / ₁₆	11 ¹¹ / ₁₆	3 ³ / ₄	3 ³ / ₄	11 ¹¹ / ₁₆	5 ⁵ / ₁₆	7 ⁷ / ₁₆	1 ¹ / ₄	s1	2/3	s2	2/4
A16	100'-0 ³ / ₈	100'-0 ¹ / ₈	9 ⁹ / ₁₆	3 ³ / ₈	49'-11 ¹⁵ / ₁₆	50'-7 ⁷ / ₁₆	144 ¹ / ₈	49'-11 ¹⁵ / ₁₆	144 ¹ / ₈	50'-7 ⁷ / ₁₆	7 ⁷ / ₁₆	3 ³ / ₁₆	3 ³ / ₁₆	10'-0 ³ / ₄	10'-0 ⁷ / ₈	3 ³ / ₈	5 ⁵ / ₁₆	13 ¹³ / ₁₆	7 ⁷ / ₈	7 ⁷ / ₈	13 ¹³ / ₁₆	3 ³ / ₈	9 ⁹ / ₁₆	5 ⁵ / ₁₆	t1	2/3	t2	2/4
B16	100'-0 ³ / ₈	100'-0 ¹ / ₈	9 ⁹ / ₁₆	3 ³ / ₈	49'-11 ¹⁵ / ₁₆	50'-7 ⁷ / ₁₆	144 ¹ / ₈	49'-11 ¹⁵ / ₁₆	144 ¹ / ₈	50'-7 ⁷ / ₁₆	7 ⁷ / ₁₆	3 ³ / ₁₆	3 ³ / ₁₆	10'-0 ³ / ₄	10'-0 ⁷ / ₈	3 ³ / ₈	5 ⁵ / ₁₆	13 ¹³ / ₁₆	7 ⁷ / ₈	7 ⁷ / ₈	13 ¹³ / ₁₆	3 ³ / ₈	9 ⁹ / ₁₆	5 ⁵ / ₁₆	t1	2/3	t2	2/4
A17	100'-0 ³ / ₈	100'-0 ¹ / ₈	9 ⁹ / ₁₆	3 ³ / ₈	49'-11 ¹⁵ / ₁₆	50'-7 ⁷ / ₁₆	144 ¹ / ₈	49'-11 ¹⁵ / ₁₆	144 ¹ / ₈	50'-7 ⁷ / ₁₆	7 ⁷ / ₁₆	3 ³ / ₁₆	3 ³ / ₁₆	10'-0 ³ / ₄	10'-0 ⁷ / ₈	3 ³ / ₈	5 ⁵ / ₁₆	13 ¹³ / ₁₆	7 ⁷ / ₈	7 ⁷ / ₈	13 ¹³ / ₁₆	3 ³ / ₈	9 ⁹ / ₁₆	5 ⁵ / ₁₆	u1	2/3	u2	2/4
B17	100'-0 ³ / ₈	100'-0 ¹ / ₈	9 ⁹ / ₁₆	3 ³ / ₈	49'-11 ¹⁵ / ₁₆	50'-7 ⁷ / ₁₆	144 ¹ / ₈	49'-11 ¹⁵ / ₁₆	144 ¹ / ₈	50'-7 ⁷ / ₁₆	7 ⁷ / ₁₆	3 ³ / ₁₆	3 ³ / ₁₆	10'-0 ³ / ₄	10'-0 ⁷ / ₈	3 ³ / ₈	5 ⁵ / ₁₆	13 ¹³ / ₁₆	7 ⁷ / ₈	7 ⁷ / ₈	13 ¹³ / ₁₆	3 ³ / ₈	9 ⁹ / ₁₆	5 ⁵ / ₁₆	u1	2/3	u2	2/4
AA15	100'-0 ⁵ / ₁₆	100'-0 ² / ₁₆	2	5 ¹⁶ / ₁₆	49'-11 ¹⁵ / ₁₆	50'-1 ³ / ₈	144 ¹ / ₈	49'-11 ¹⁵ / ₁₆	144 ¹ / ₈	50'-1 ³ / ₈	3 ⁴ / ₁₆	3 ³ / ₁₆	3 ³ / ₁₆	10'-0 ⁵ / ₈	10'-0 ¹¹ / ₁₆	5 ⁵ / ₁₆	9 ⁹ / ₁₆	11 ¹¹ / ₁₆	3 ³ / ₄	3 ³ / ₄	11 ¹¹ / ₁₆	5 ⁵ / ₁₆	7 ⁷ / ₁₆	1 ¹ / ₄	s1	2/3	s2	2/4

A15	PL 26 x 2 x 70'-0 - s3 (M270-50 T2) 2/6	PL 24 x 2 x 30'-1 ⁵ / ₁₆ - s4 (M270-50 T2) 2/5
A16	PL 26 x 2 x 70'-0 - t3 (M270-50 T2) 2/6	PL 24 x 2 x 30'-1 ³ / ₈ - t4 (M270-50 T2) 2/5
B16	PL 26 x 2 x 70'-0 - t3 (M270-50 T2) 2/6	PL 24 x 2 x 30'-1 ³ / ₈ - t4 (M270-50 T2) 2/5
A17	PL 26 x 2 x 70'-0 - u3 (M270-50 T2) 2/6	PL 24 x 2 x 30'-1 ³ / ₈ - u4 (M270-50 T2) 2/5
B17	PL 26 x 2 x 70'-0 - u3 (M270-50 T2) 2/6	PL 24 x 2 x 30'-1 ³ / ₈ - u4 (M270-50 T2) 2/5
AA15	PL 26 x 2 x 70'-0 - s3 (M270-50 T2) 2/6	PL 24 x 2 x 30'-1 ⁵ / ₁₆ - s4 (M270-50 T2) 2/5

25'-0 (FLG WIDTH = 24") 2¹/₄ (FLG WIDTH = 26")

BEGIN WIDTH TRANSITION
DETAIL "WT1"

A15	PL 26 x 3 x 25'-0 - s5 (M270-50 T2) 2/10	PL 28 x 3 x 45'-0 - s6 (M270-50 T2) 2/9	PL 26 x 3 x 30'-0 ¹ / ₂ - s7 (M270-50 T2) 2/8
A16	PL 26 x 3 x 25'-0 - t5 (M270-50 T2) 2/10	PL 28 x 3 x 45'-0 - t6 (M270-50 T2) 2/9	PL 26 x 3 x 30'-0 ⁷ / ₁₆ - t7 (M270-50 T2) 2/8
B16	PL 26 x 3 x 25'-0 - t5 (M270-50 T2) 2/10	PL 28 x 3 x 45'-0 - t6 (M270-50 T2) 2/9	PL 26 x 3 x 30'-0 ⁷ / ₁₆ - t7 (M270-50 T2) 2/8
A17	PL 26 x 3 x 25'-0 - u5 (M270-50 T2) 2/10	PL 28 x 3 x 45'-0 - u6 (M270-50 T2) 2/9	PL 26 x 3 x 30'-0 ⁷ / ₁₆ - u7 (M270-50 T2) 2/8
B17	PL 26 x 3 x 25'-0 - u5 (M270-50 T2) 2/10	PL 28 x 3 x 45'-0 - u6 (M270-50 T2) 2/9	PL 26 x 3 x 30'-0 ⁷ / ₁₆ - u7 (M270-50 T2) 2/8
AA15	PL 26 x 3 x 25'-0 - s5 (M270-50 T2) 2/10	PL 28 x 3 x 45'-0 - s6 (M270-50 T2) 2/9	PL 26 x 3 x 30'-0 ¹ / ₂ - s7 (M270-50 T2) 2/8



FLANGE DIAGRAM FOR A15 THRU A15

DETAIL "WT1"

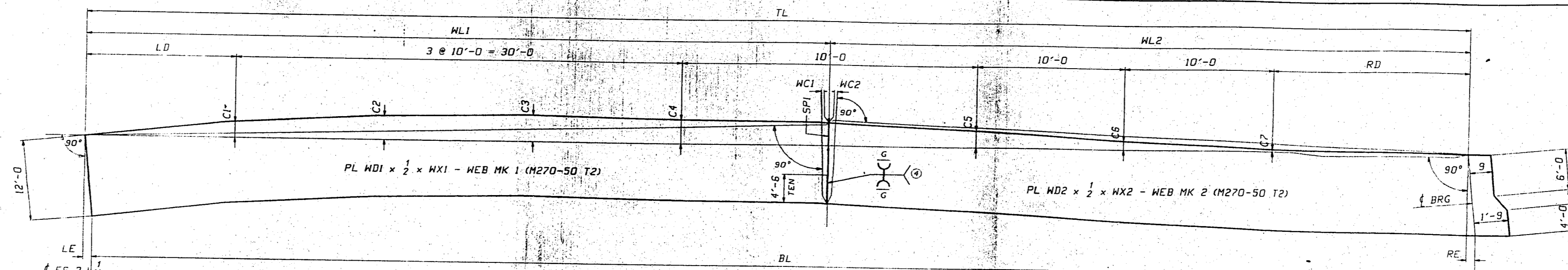
NOTES:
-WORK THIS DRAWING WITH GIRDER DETAILS ON DWGS 15-17.
-FOR GENERAL NOTES SEE DWG GNI.

CAMBER AND FLANGE DIAGRAM
VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
HL 02/24/98	TRM 03/13/98		

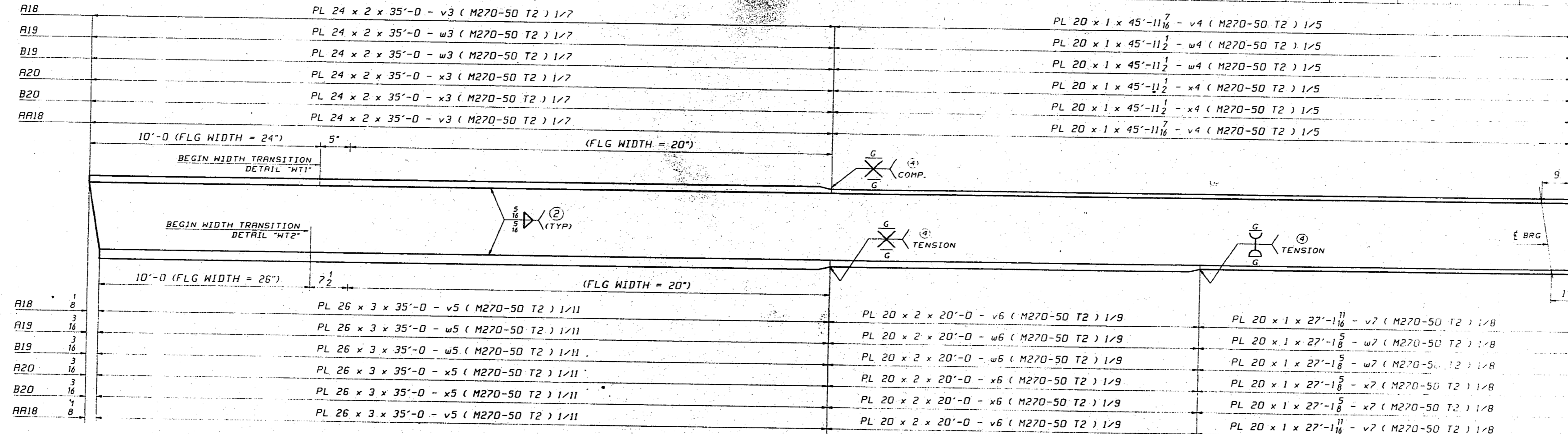
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.M. / INDIANA D.O.T.
DRIVESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. ODK8D GD1D1 001

Shop Part: SEC GHI
Edge Distance AS NOTED Holes: 15" Ø (UN)
Contr. No: 672 Sh: C2 of

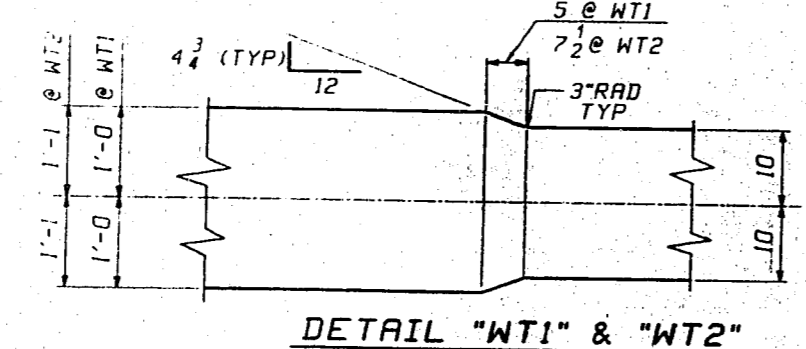


WEB CUTTING DIAGRAM FOR A18 THRU A18

MARK	TL	BL	LE	RE	WL1	WL2	WD1	WX1	WD2	WX2	SPI	NC1	NC2	LD	RD	C1	C2	C3	C4	C5	C6	C7	WEB MK 1	PG/LINE	WEB MK 2	PG/LINE
A18	80'-2 7/16	80'-4 11/16	1/8	2 3/8	40'-4 15/16	39'-9 3/2	144 1/8	40'-4 15/16	144	41'-8 15/16	1/8	0	0	10'-1 1/4	10'-1 3/16	1/8	1/8	1/8	1/8	1/8	0	0	v1	1/4	v2	1/3
A19	80'-2 7/16	80'-4 5/8	3/16	2 5/16	40'-4 15/16	39'-9 3/16	144 1/8	40'-4 15/16	144	41'-8 15/16	3/16	0	0	10'-1 1/4	10'-1 1/4	1/8	3/16	3/16	3/16	1/8	1/8	0	w1	1/4	w2	1/3
B19	80'-2 7/16	80'-4 5/8	3/16	2 5/16	40'-4 15/16	39'-9 3/16	144 1/8	40'-4 15/16	144	41'-8 15/16	3/16	0	0	10'-1 1/4	10'-1 1/4	1/8	3/16	3/16	3/16	1/8	1/8	0	w1	1/4	w2	1/3
A20	80'-2 7/16	80'-4 5/8	3/16	2 5/16	40'-4 15/16	39'-9 3/16	144 1/8	40'-4 15/16	144	41'-8 15/16	3/16	0	0	10'-1 1/4	10'-1 1/4	1/8	3/16	3/16	3/16	1/8	1/8	0	x1	1/4	x2	1/3
B20	80'-2 7/16	80'-4 5/8	3/16	2 5/16	40'-4 15/16	39'-9 3/16	144 1/8	40'-4 15/16	144	41'-8 15/16	3/16	0	0	10'-1 1/4	10'-1 1/4	1/8	3/16	3/16	3/16	1/8	1/8	0	x1	1/4	x2	1/3
AA18	80'-2 7/16	80'-4 11/16	1/8	2 3/8	40'-4 15/16	39'-9 3/2	144 1/8	40'-4 15/16	144	41'-8 15/16	1/8	0	0	10'-1 1/4	10'-1 3/16	1/8	1/8	1/8	1/8	1/8	0	0	v1	1/4	v2	1/3



FLANGE DIAGRAM FOR A18 THRU A18



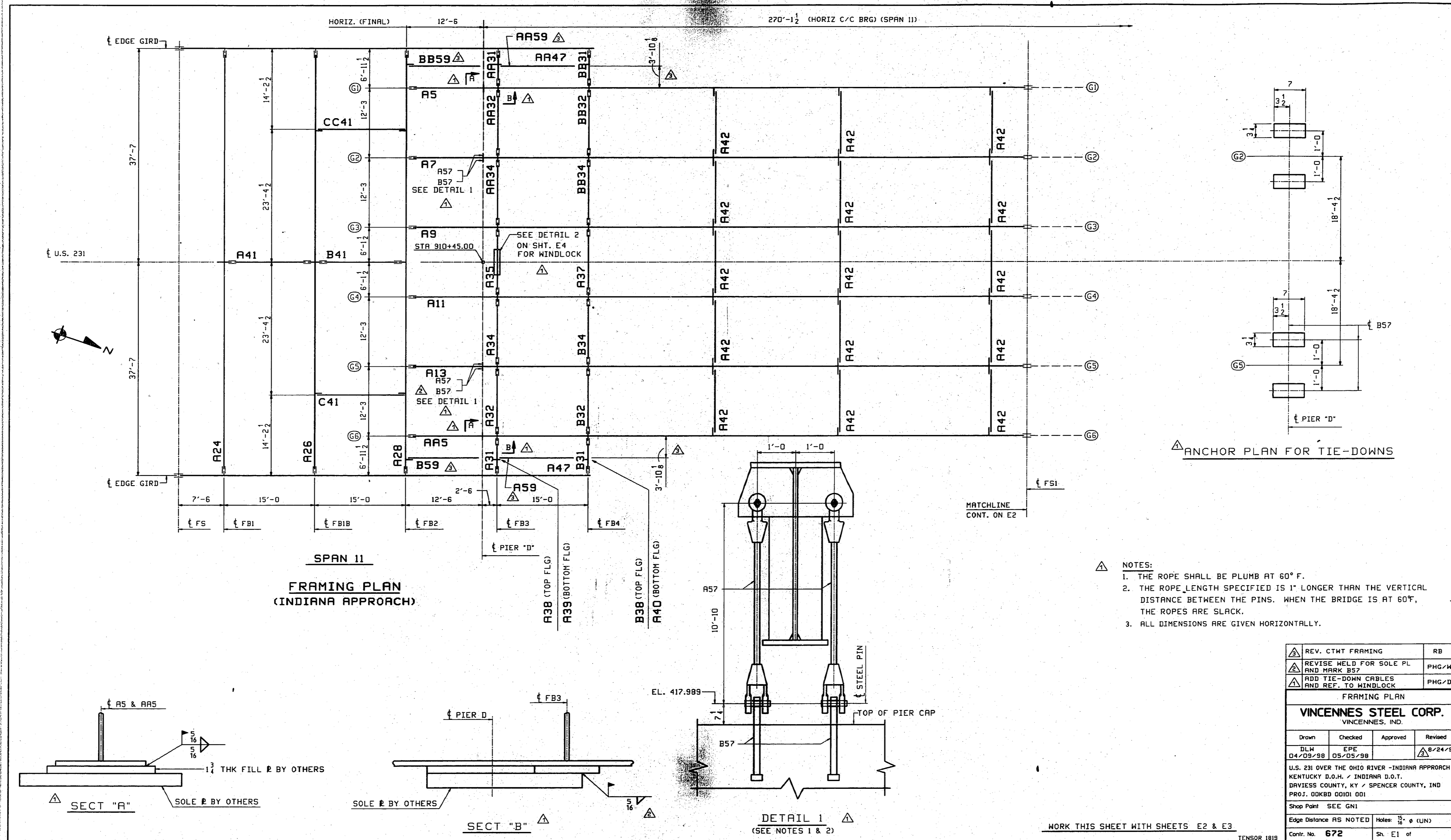
DETAIL "WT1" & "WT2"

NOTES:
 -WORK THIS DRAWING WITH GIRDER DETAILS ON DWGS 18-20.
 -FOR GENERAL NOTES SEE DWG GNI.

CAMBER AND FLANGE DIAGRAM
VINCENNES STEEL CORP.
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
HL	TRN		
02/24/98	03/24/98		

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.M. / INDIANA D.O.T.
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. 00K80 0001 001
 Shop Point SEE GNI
 Edge Distance AS NOTED Notes: 15" (LUN)
 Contr. No. 672 Sh. C3 of 5
 TENSOR 1819



ANCHOR PLAN FOR TIE-DOWNS

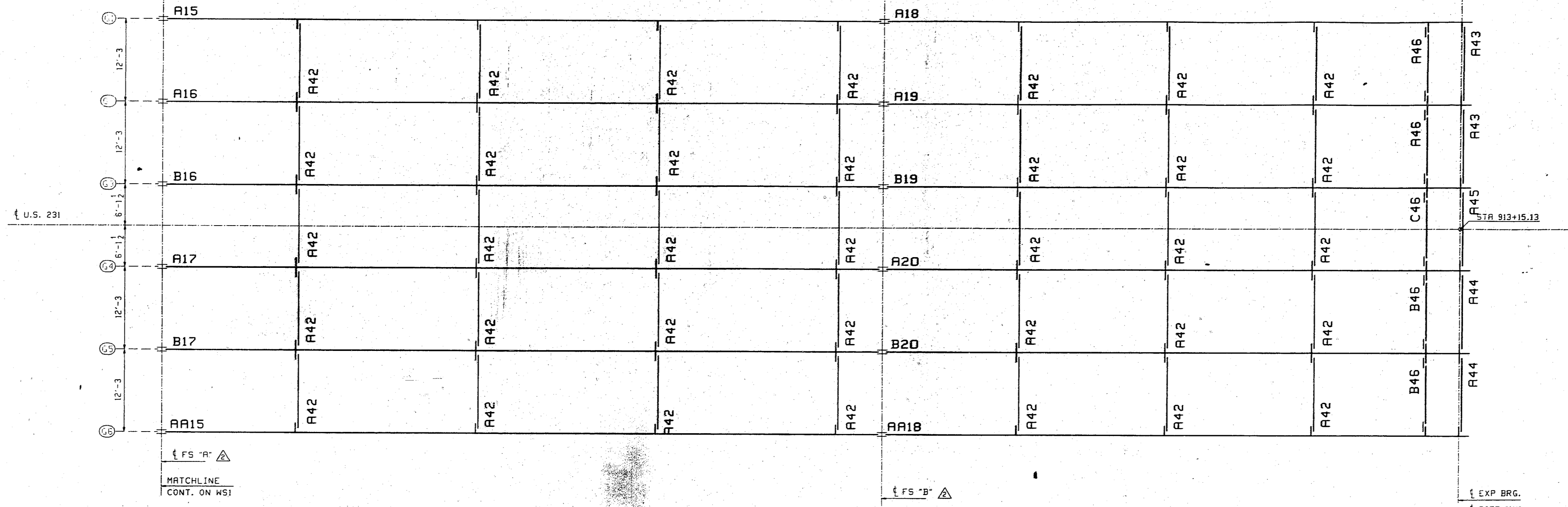
- NOTES:
1. THE ROPE SHALL BE PLUMB AT 60° F.
 2. THE ROPE LENGTH SPECIFIED IS 1" LONGER THAN THE VERTICAL DISTANCE BETWEEN THE PINS. WHEN THE BRIDGE IS AT 60° F, THE ROPES ARE SLACK.
 3. ALL DIMENSIONS ARE GIVEN HORIZONTALLY.

REV. CTWT FRAMING	RB		
REVISE WELD FOR SOLE PL AND MARK B57	PHG/HL		
ADD TIE-DOWN CABLES AND REF. TO MINDLOCK	PHG/DO		
FRAMING PLAN			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW 04/09/98	EPE 05/05/98		8/24/99
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.T. / INDIANA D.O.T. DRAVESH COUNTY, KY / SPENCER COUNTY, IND PROJ. GDBKB 0001 001			
Shop Print SEE G01			
Edge Distance AS NOTED		Holes: 1/2" Ø (LUN)	
Contn. No. 672		Sh. E1 of	

WORK THIS SHEET WITH SHEETS E2 & E3

TEMSOR 1818

270'-1 1/2 (HORIZ C/C BRG) (SPAN 11)



SPAN 11
FRAMING PLAN
(INDIANA APPROACH)

△ TYPICAL SPLICE MATERIAL MATCH MARKING SCHEME

SHOP MATCH MARKING SCHEME

THE INTERSECTION OF GIRDER LINE NUMBER AND SPLICE LINE LETTER FORM THE SPLICE IDENTIFICATION MARK. THIS MARK WILL APPEAR ON ENDS OF ALL GIRDERS (THUS 1A). ALL SPLICE MATERIAL WILL HAVE THE SPLICE MARK PLUS A DIFFERENT SUFFIX NUMBER FOR EACH INDIVIDUAL PIECE OF SPLICE MATERIAL (THUS 1A-1). CORRESPONDING MARKS WILL BE AFFIXED TO GIRDERS. FOR PROPER PLACING OF SPLICE MATERIAL, THE MATCHMARK MUST BE KEPT TOWARD THE OUTSIDE AND IN A POSITION CLOSELY RELATED WITH ITS CORRESPONDING MARK ON THE GIRDER.

DESIGNATION ON FRAMING PLANS

KEY PLAN

GIRDER LINE NUMBER FOR MATCH MARKING

△ FS 'A'

△ FS 'B'

△ FS 'A,B'

① 1

② 2

③ 3

④ 4

⑤ 5

⑥ 6

△ FIX MATCH MARKING SCHEME

FRAMING PLAN

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
DLW 04/09/98	EPE 05/05/98		△ 5/01

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.T. / INDIANA D.O.T.
DRAVIESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. DOKB8 D01G1 D01

Shop Plans SEE G01

Edge Distance AS NOTED

Contr. No. 672

Sh. E2' of

WORK THIS SHEET WITH SHEETS E1 & E3

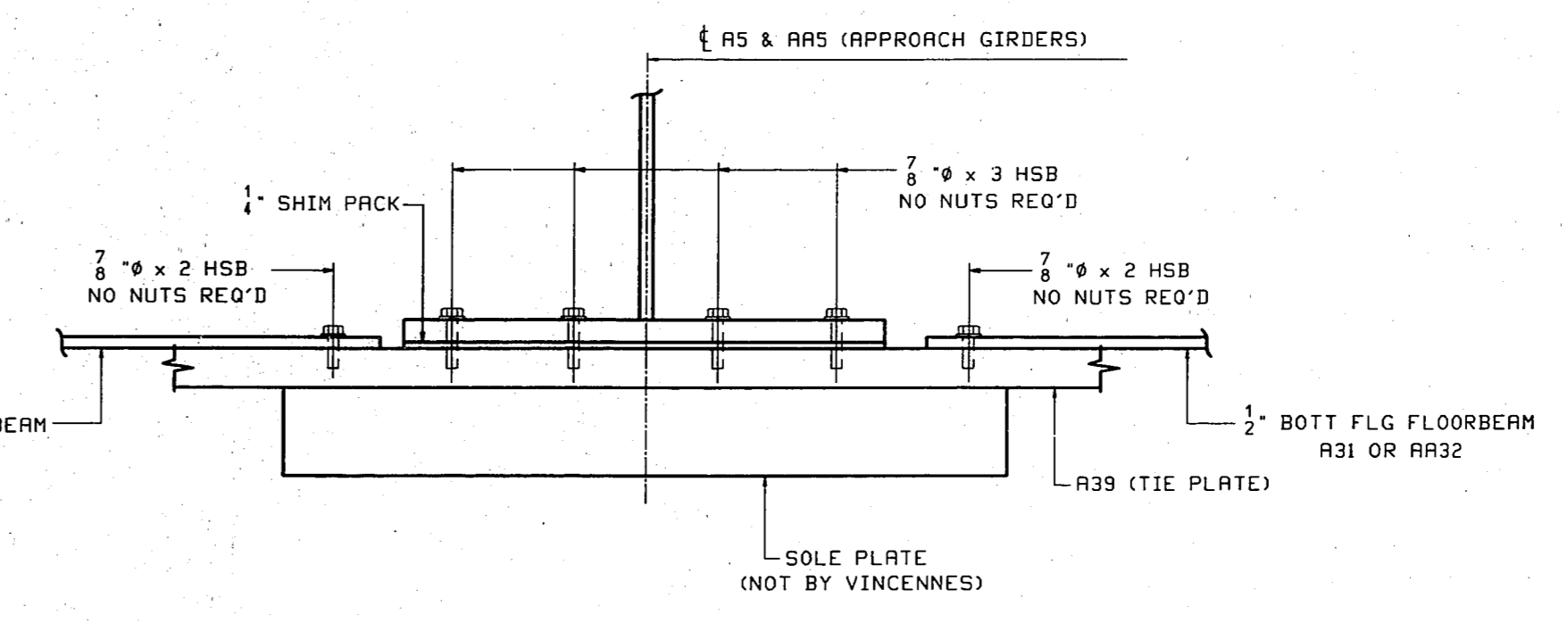
US 231 - INDIANA APPROACH									
LINE	NO. REQ'D	BOLT DIA.	BOLT LEN.	BOLTS OF CONN.	GRIP	R325 TYPE 1 GRVL. BOLTS			PIECES CONNECTED AND REMARKS
						THICKNESS OF PCS. CONNECTED	MIN. CODE	MAX. CODE	
1									FIELD SPLICE FS1 & FS2
2	1440	7/8	51	120	12	3/8	2	1 1/2	1 TOP FLG SPL
3	2808	7/8	2 1/2	234	12	1 1/2	3	1 1/2	1 WEB SPLICE
4	2304	7/8	7 1/2	192	12	6	1 1/2	3 1/2	1 BOT FLG SPL
5									
6									GIRDERS TO R28(FB2)
7	696	7/8	3	116	6	1 1/2	1	1 1/2	1 CONN PL TO STIFF
8									
9									FLOORBEAM TO EDGE GIRDER
10	240	7/8	3 1/2	120	2	2	1	1 1/2	1 R28(FB2) TO STIFF
11	32	7/8	3 1/2	16	2	2 1/2	1	1 1/2	1 R28 TOP TO EDGE GIRD TOP FLG
12	32	7/8	4 1/2	16	2	2 1/2	1	1 1/2	1 R28 BOT TO EDGE GIRD BOT FLG
13	88	7/8	4 1/2	44	2	1 1/2	1	1 1/2	1 R26(FB1) TO STIFF
14	16	7/8	3 1/2	8	2	2 1/2	1	1 1/2	1 R26 TOP TO EDGE GIRD TOP FLG
15	16	7/8	4	8	2	2 1/2	1	1 1/2	1 R26 BOT TO EDGE GIRD BOT FLG
16	88	7/8	2 1/2	44	2	1 1/2	1	1 1/2	1 R24(FB1) TO STIFF
17	16	7/8	3 1/2	8	2	2 1/2	1	1 1/2	1 R24 TOP TO EDGE GIRD TOP FLG
18	16	7/8	4	8	2	2 1/2	1	1 1/2	1 R24 BOT TO EDGE GIRD BOT FLG
19	240	7/8	3 1/2	120	2	2	1	1 1/2	1 R31 & R31 (FB3) TO STIFF
20	240	7/8	3 1/2	120	2	2	1	1 1/2	1 B31 & B31 (FB4) TO STIFF
21									FLOORBEAM TO GIRDER WEBS
22									LINES 1 & 6
23	272	7/8	3 1/2	136	2	2	1	1 1/2	1 R31 & R31 (FB3) TO STIFF
24	272	7/8	3 1/2	136	2	2	1	1 1/2	1 B31 & B31 (FB4) TO STIFF
25	272	7/8	3 1/2	136	2	2	1	1 1/2	1 R32 & R32 (FB3) TO STIFF
26	272	7/8	3 1/2	136	2	2	1	1 1/2	1 B32 & B32 (FB4) TO STIFF
27									FLOORBEAM TO GIRDER WEBS
28									LINES 2, 3, 4, & 5
29	540	7/8	3 1/2	270	2	2	1	1 1/2	1 R32 & R32 (FB3) TO STIFF
30	540	7/8	3 1/2	270	2	2	1	1 1/2	1 B32 & B32 (FB4) TO STIFF
31	1080	7/8	3 1/2	270	4	2	1	1 1/2	1 R34 & R34 (FB3) TO STIFF
32	1080	7/8	3 1/2	270	4	2	1	1 1/2	1 B34 & B34 (FB4) TO STIFF
33	540	7/8	3 1/2	270	2	2	1	1 1/2	1 R35 (FB3) TO STIFF
34	540	7/8	3 1/2	270	2	2	1	1 1/2	1 R37 (FB4) TO STIFF

1: 1 Hard Flat Washer
WASHER CODES

US 231 - INDIANA APPROACH									
LINE	NO. REQ'D	BOLT DIA.	BOLT LEN.	BOLTS OF CONN.	GRIP	R325 TYPE 1 GRVL. BOLTS			PIECES CONNECTED AND REMARKS
						THICKNESS OF PCS. CONNECTED	MIN. CODE	MAX. CODE	
1									DIAPHRAGMS TO FLOORBEAMS
2	24	7/8	2 1/2	6	4	1 1/2	5	7 1/2	1 R41, B41 DIAPH TO STIFF
3	12	7/8	2 1/2	3	4	1 1/2	2	1 1/2	1 C41, CC41 DIAPH TO STIFF
4									
5									TIE PLATES (TOP FLG)
6	492	7/8	3 1/2	492	1	1 1/2	1 1/2	1	1 R38 TO FLOORBEAMS (FB3)
7	96	7/8	3 1/2	16	6	2 1/2	1 1/2	1	1 R38 TO GIRD TOP FLG (FB3)
8	32	7/8	4 1/2	16	2	2 1/2	1 1/2	1 1/2	1 R38 TO EDGE GIRD TOP FLG
9	492	7/8	3 1/2	492	1	1 1/2	1 1/2	1	1 R38 TO FLOORBEAMS (FB4)
10	96	7/8	3 1/2	16	6	2 1/2	1 1/2	1	1 R38 TO GIRD TOP FLG (FB4)
11	32	7/8	4 1/2	16	2	2 1/2	1 1/2	1 1/2	1 R38 TO EDGE GIRD TOP FLG
12									TIE PLATES (BOT FLG)
13	456	7/8	3 1/2	456	1	2 1/2	1 1/2	1 1/2	1 R39 TO FLOORBEAMS (FB3)
14	32	7/8	3	16	2	1 1/2	1	1 1/2	1 R39 TO GIRD BOT FLG (FB3)
15	16	7/8	2	8	2	1 1/2	1	1 1/2	1 R39 TO GIRD BOT FLG (FB3)
16	64	7/8	4 1/2	16	4	3 1/2	1 1/2	1 1/2	1 R39 TO GIRD BOT FLG (FB3)
17	56	7/8	8	56	1	7	1 1/2	1 1/2	2 R39 & WINDLOCK BOT FLG (FB3)
18	32	7/8	4 1/2	16	2	3 1/2	1 1/2	1 1/2	1 R39 TO EDGE GIRD BOT FLG
19	516	7/8	3 1/2	516	1	2 1/2	1 1/2	1 1/2	1 R40 TO FLOORBEAMS (FB4)
20	96	7/8	4 1/2	16	6	3 1/2	1 1/2	1 1/2	1 R40 TO GIRD BOT FLG (FB4)
21	32	7/8	4 1/2	16	2	3 1/2	1 1/2	1 1/2	1 R40 TO EDGE GIRD BOT FLG
22									INTERMED CROSSFRAMES (R42)
23	800	7/8	2 1/2	8	100	1 1/2	1	1 1/2	1 GUSSET TO GIRD STIFF
24									END CF (R43, R44, R45)
25	90	7/8	3	9	10	1 1/2	1 1/2	1 1/2	1 GUSSET TO GIRD STIFF
26									END DIAPH (R46, R46, C46)
27	70	7/8	2 1/2	7	10	1	1 1/2	1 1/2	1 GUSSET TO GIRD STIFF
28									
29	176	7/8	2 1/2	22	8	1 1/2	1 1/2	1 1/2	2 R55, R55, R55, B55 TO STIFF
30									

1: 1 Hard Flat Washer
2: 2 Hard Flat Washers
WASHER CODES

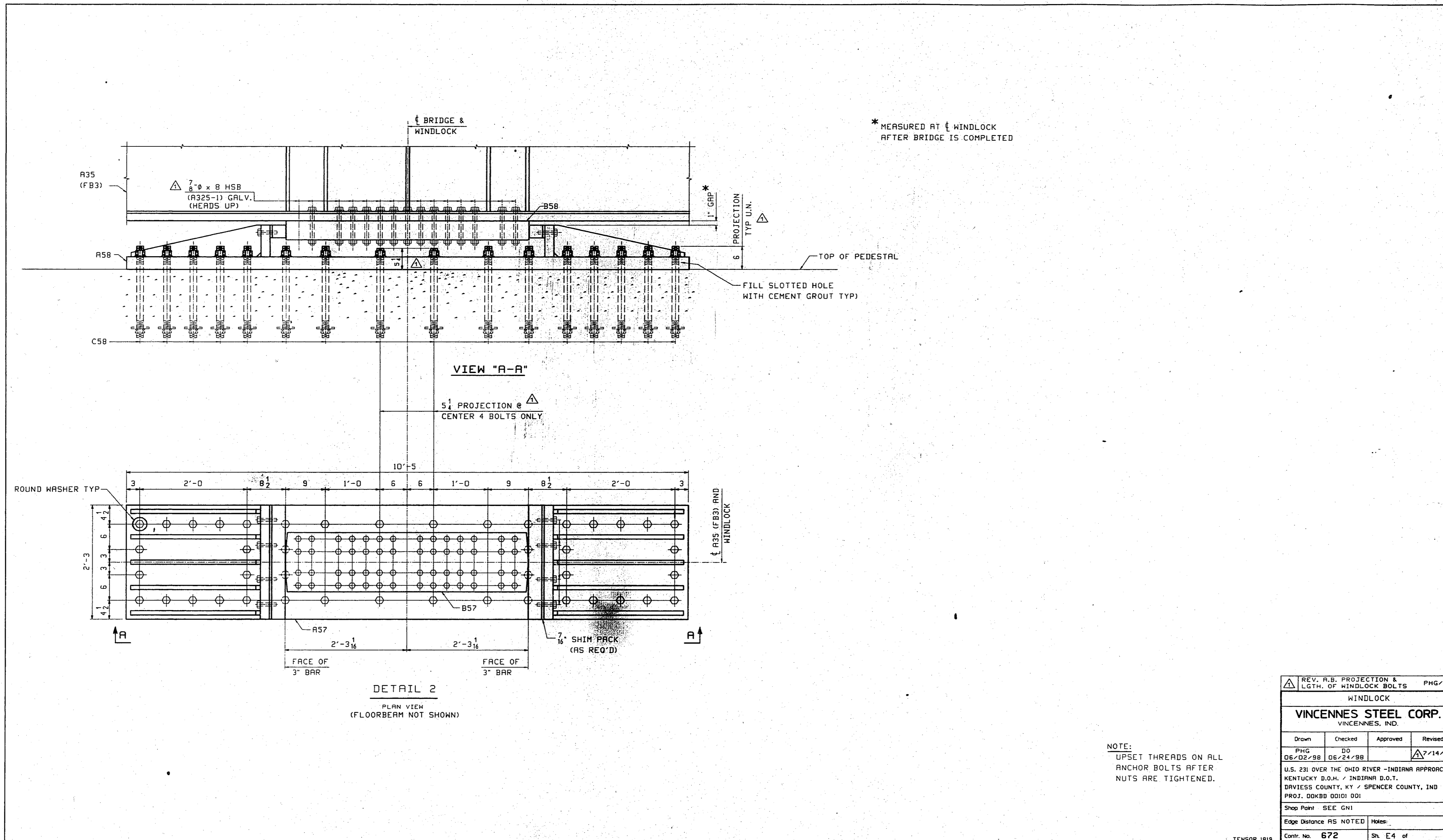
US 231 - INDIANA APPROACH									
LINE	NO. OF BOLTS	BOLT DIA.	TYPE	2% ADDED, MIN. 2 EXTRA		REMARKS			
				BOLT LEN.	ACTUAL COUNT				
1	18	7/8	GRV, TYPE 1	2	16	"RCT" REQUIRED			
2	1104	7/8		2 1/2	1082				
3	3044	7/8		2 1/2	2984				
4	834	7/8		3	818				
5	1004	7/8		3 1/2	984				
6	6283	7/8		3 1/2	6160				
7	1220	7/8		3 1/2	1196				
8	34	7/8		4	32				
9	98	7/8		4 1/2	96				
10	163	7/8		4 1/2	160				
11	56	7/8		4 1/2	54				
12	1463	7/8		5 1/2	1440				
13	2350	7/8		7 1/2	2304				
14	58	7/8	GRV, TYPE 1	8	56	"RCT" REQUIRED			
15									
16	17975		Hard Flat Washers for 7/8" BOLT						
17									
18									
19									

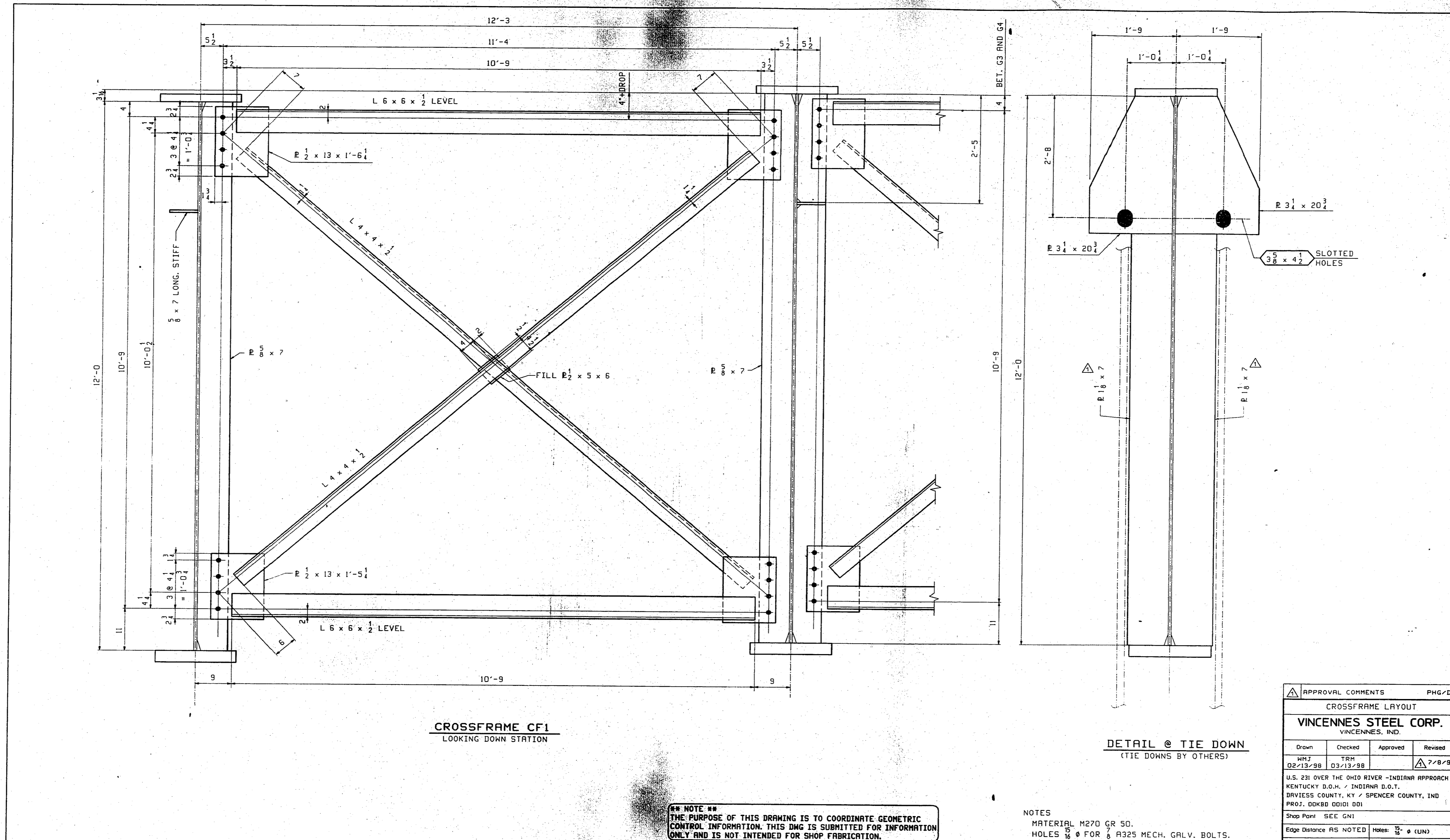


WORK THIS SHEET WITH SHEETS E1 & E2

△	ADDED BOLTS FOR CTWT DIAPH.	RB
△	REV. LGTH. OF WINDLOCK BOLTS	PHG
FIELD BOLTS		
VINCENNES STEEL CORP., VINCENNES, IND.		
Drawn	Checked	Approved
DLW	DO	△
05/28/98	06/09/98	8/24/99
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH		
KENTUCKY D.O.M. / INDIANA D.O.T.		
DAVIESS COUNTY, KY / SPENCER COUNTY, IND		
PROJ. 00K80 00101 001		
Shop Print SEE GNI		
Edge Distance AS NOTED	Holes 15/16" Ø (MIN)	
Contr. No. 672	Sh. E3 of	

TENSOR 1819





CROSSFRAME CF1
LOOKING DOWN STATION

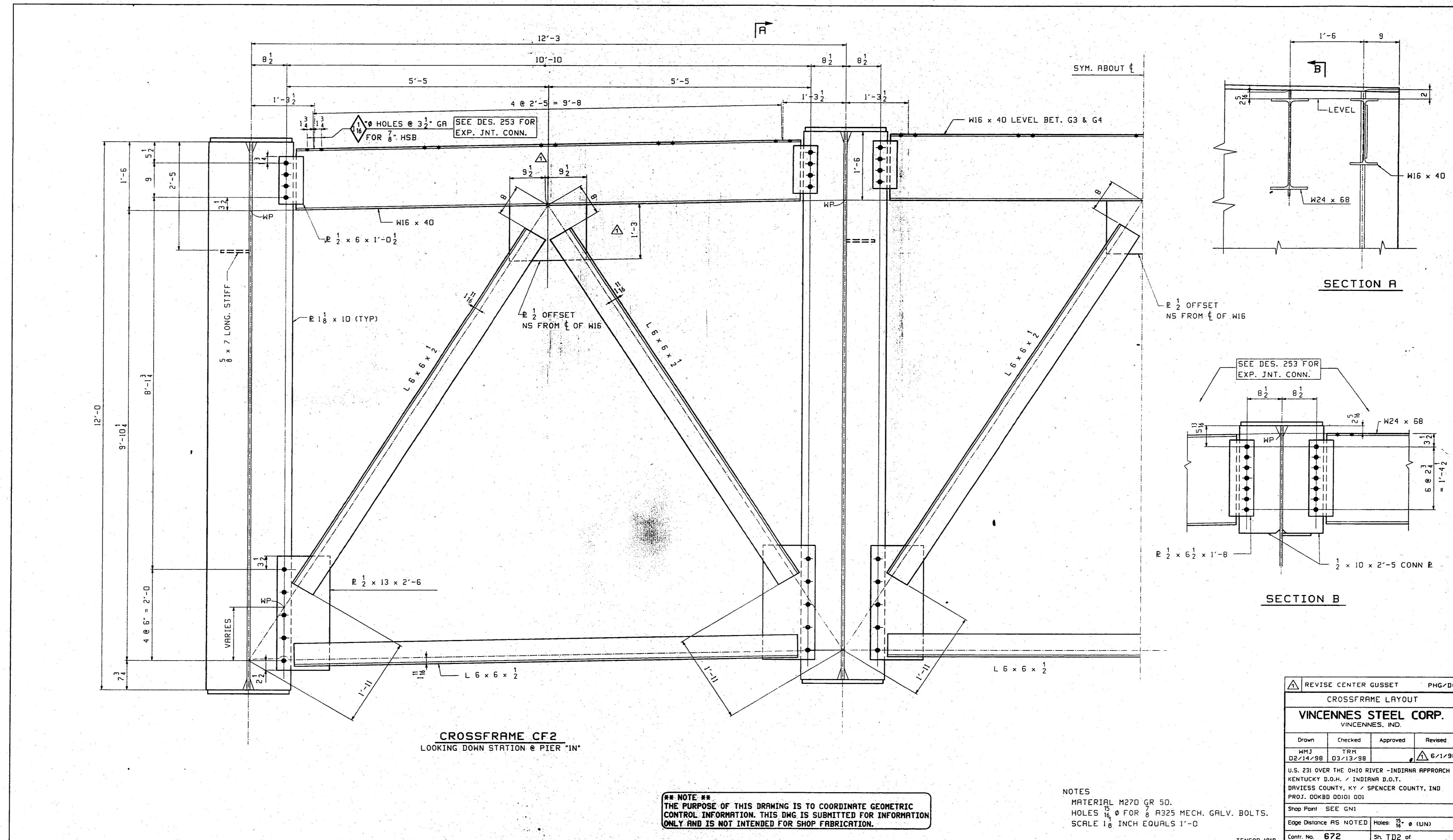
DETAIL @ TIE DOWN
(TIE DOWNS BY OTHERS)

**** NOTE ****
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

NOTES
MATERIAL A270 GR 50.
HOLES 1/2" Ø FOR 7/8" A325 MECH. GALV. BOLTS.

APPROVAL COMMENTS				PHG/DD
CROSSFRAME LAYOUT				
VINCENNES STEEL CORP. VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
WHJ	TSM		7/8/98	
02/13/98	03/13/98		△	
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH				
KENTUCKY D.O.M. / INDIANA D.O.T.				
DAVIESS COUNTY, KY / SPENCER COUNTY, IND				
PROJ. DDK80 00101 001				
Shop Point SEE GNI				
Edge Distance AS NOTED				
Holes: 1/2" Ø (LUN)				
Contr. No. 672	Sh. TDI of			

TENSOR 1819

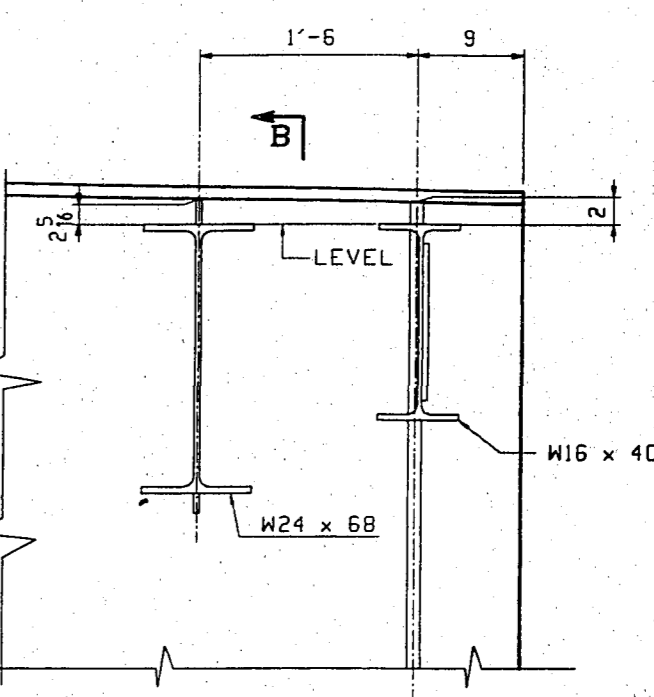


CROSSFRAME CF2
LOOKING DOWN STATION @ PIER "IN"

NOTE ##
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

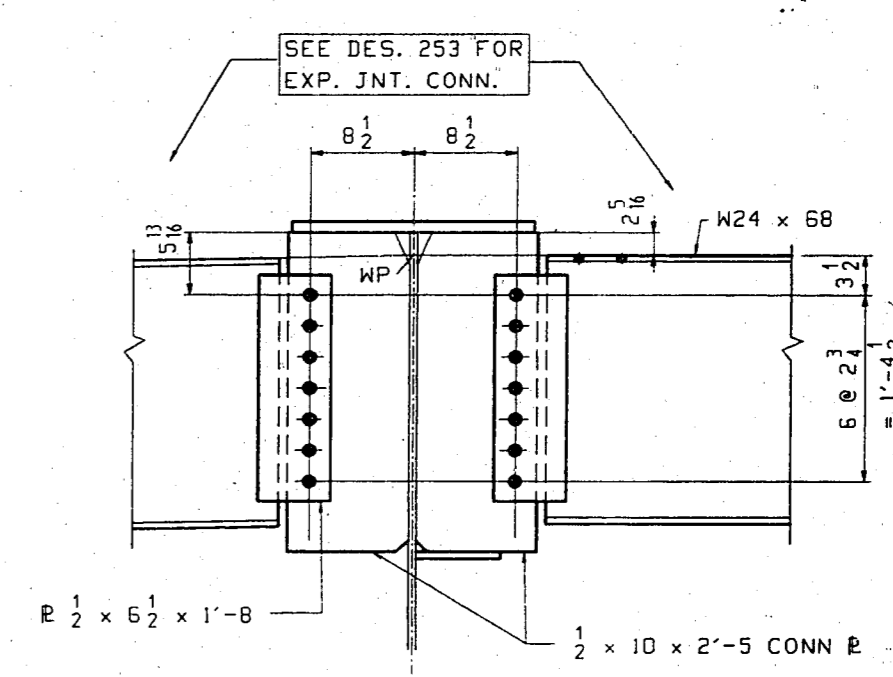
NOTES
MATERIAL M270 GR 50.
HOLES 1/8" FOR 3/8" A325 MECH. GALV. BOLTS.
SCALE 1/8" INCH EQUALS 1'-0"

REVISION CENTER GUSSET				PHG/DD
CROSSFRAME LAYOUT				
VINCENNES STEEL CORP. VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
WMJ	TRM			6/1/98
02/14/98	03/13/98			
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.M. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K80 0001 001				
Shop Print SEE GNI				
Edge Distance AS NOTED				
Holes: 3/8" (LUN)				
Contr. No. 672				
Sh. TD2 of				

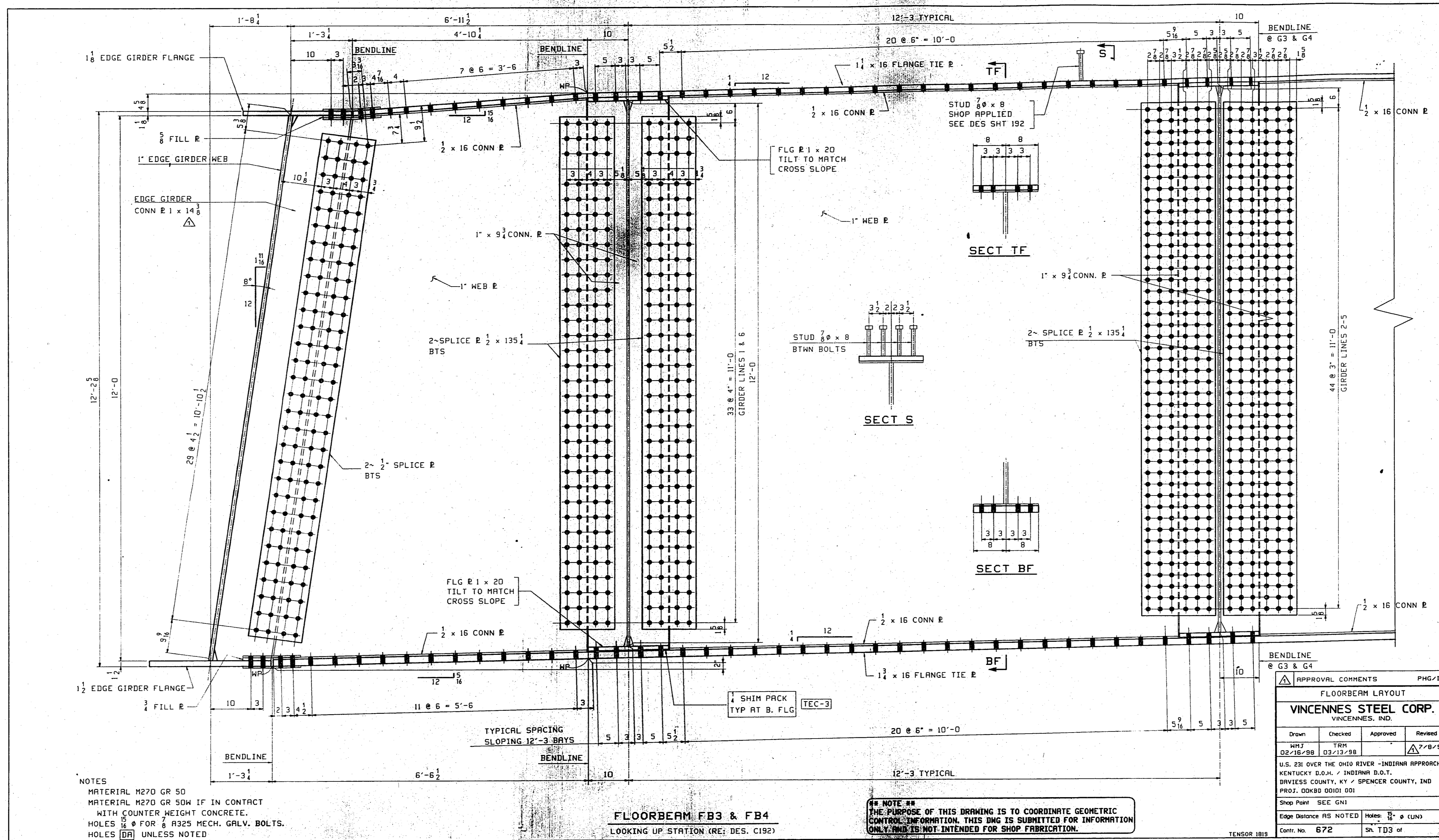


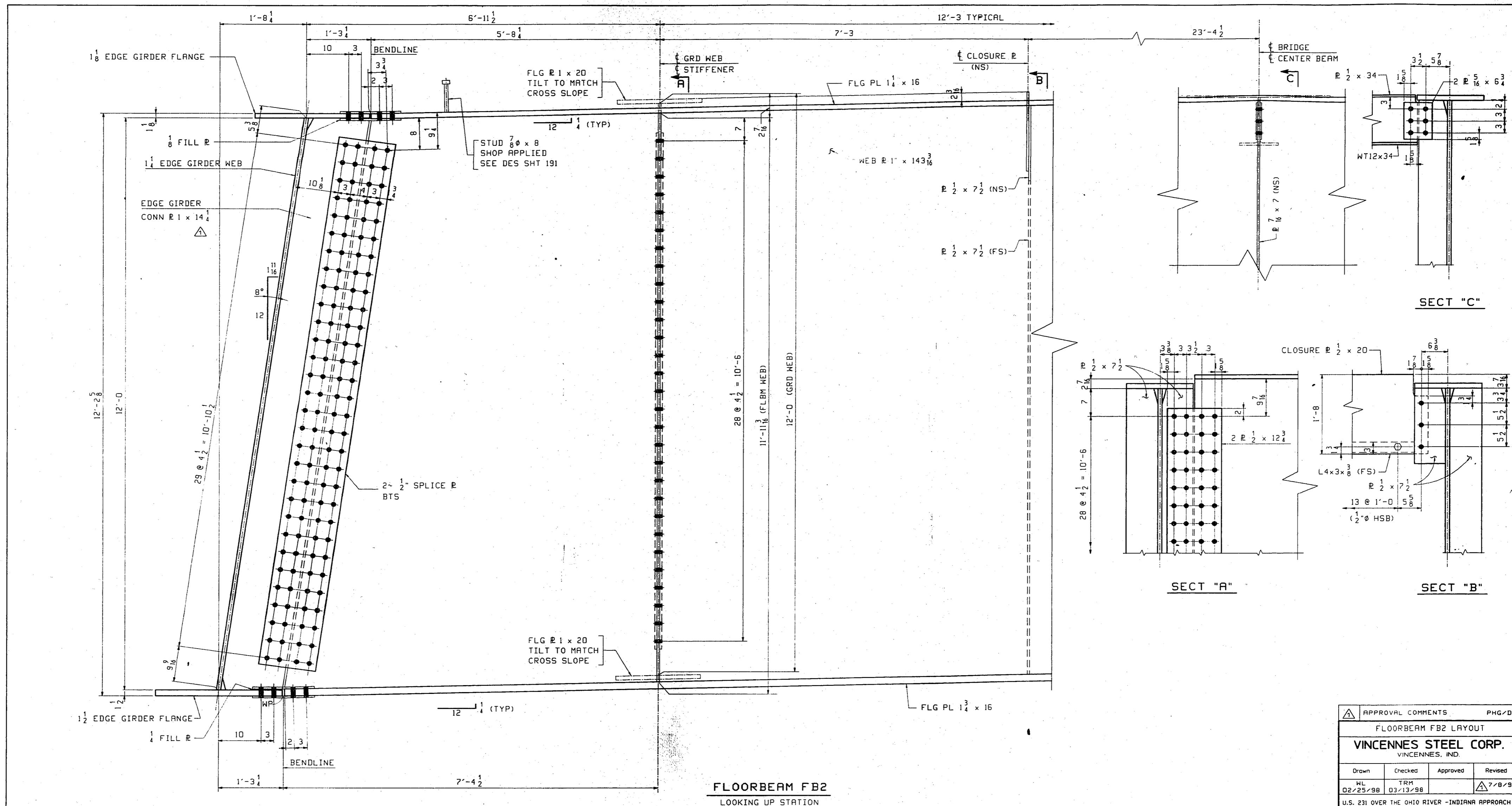
SECTION A

R 1/2 OFFSET
NS FROM C OF W16



SECTION B

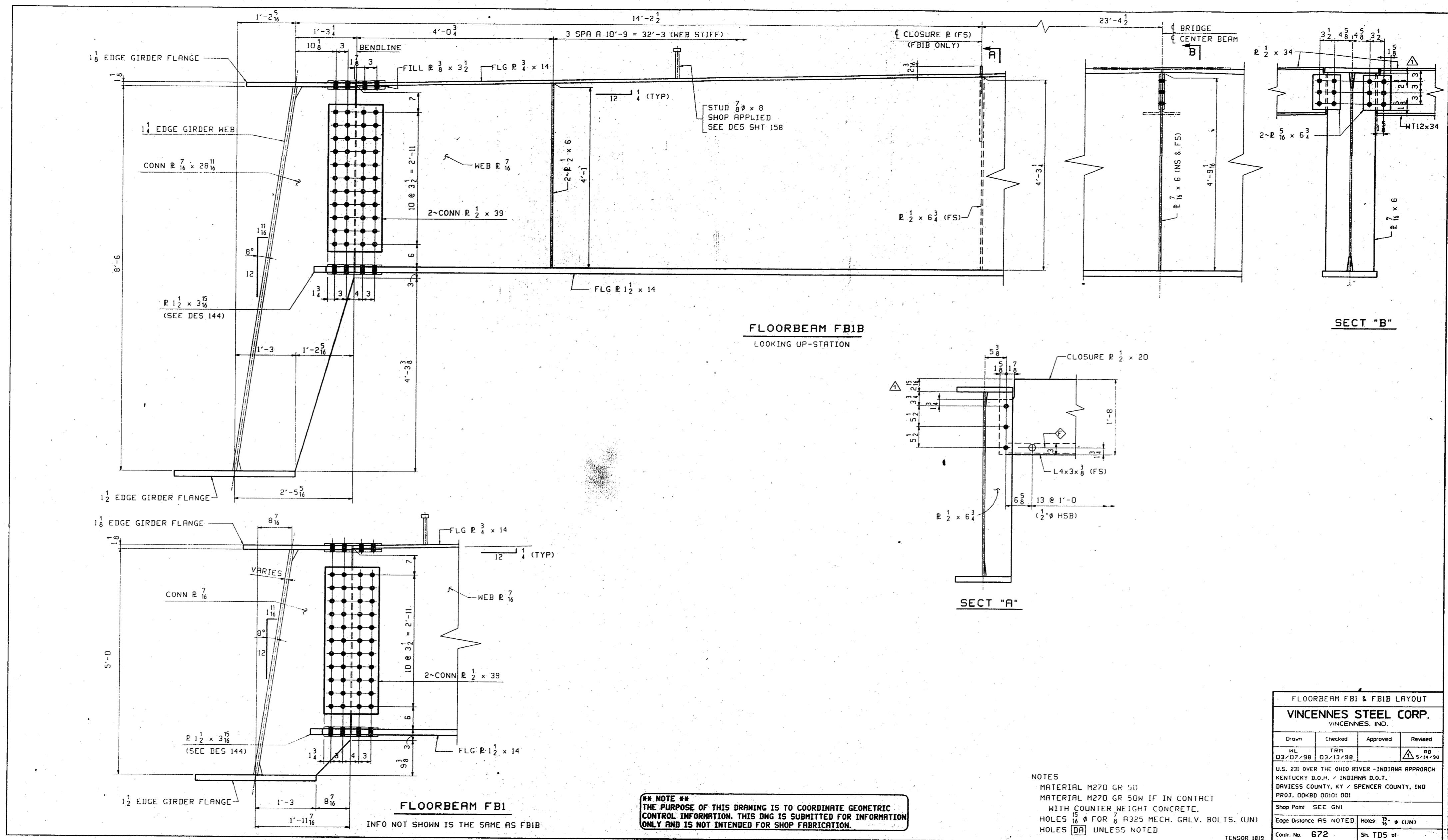




**** NOTE ****
 THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

NOTES
 MATERIAL M270 GR 50
 MATERIAL M270 GR 50W IF IN CONTACT WITH COUNTER WEIGHT CONCRETE.
 HOLES 1/8" FOR 3/8" A325 MECH. GALV. BOLTS.
 HOLES 1/4" UNLESS NOTED

APPROVAL COMMENTS				PHG/DD
FLOORBEAM FB2 LAYOUT				
VINCENNES STEEL CORP. VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
HL	TRM		7/8/98	
02/25/98	03/13/98			
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.M. / INDIANA D.O.T. BRIEVES COUNTY, KY / SPENCER COUNTY, IND PROJ. DOKB0 00101 001				
Shop Point SEE GNI				
Edge Distance AS NOTED				
Holes 1/8" @ (LUN)				
Constr. No. 672				
Sh. TD4 of				



FLOORBEAM FB1B
LOOKING UP-STATION

SECT "B"

SECT "A"

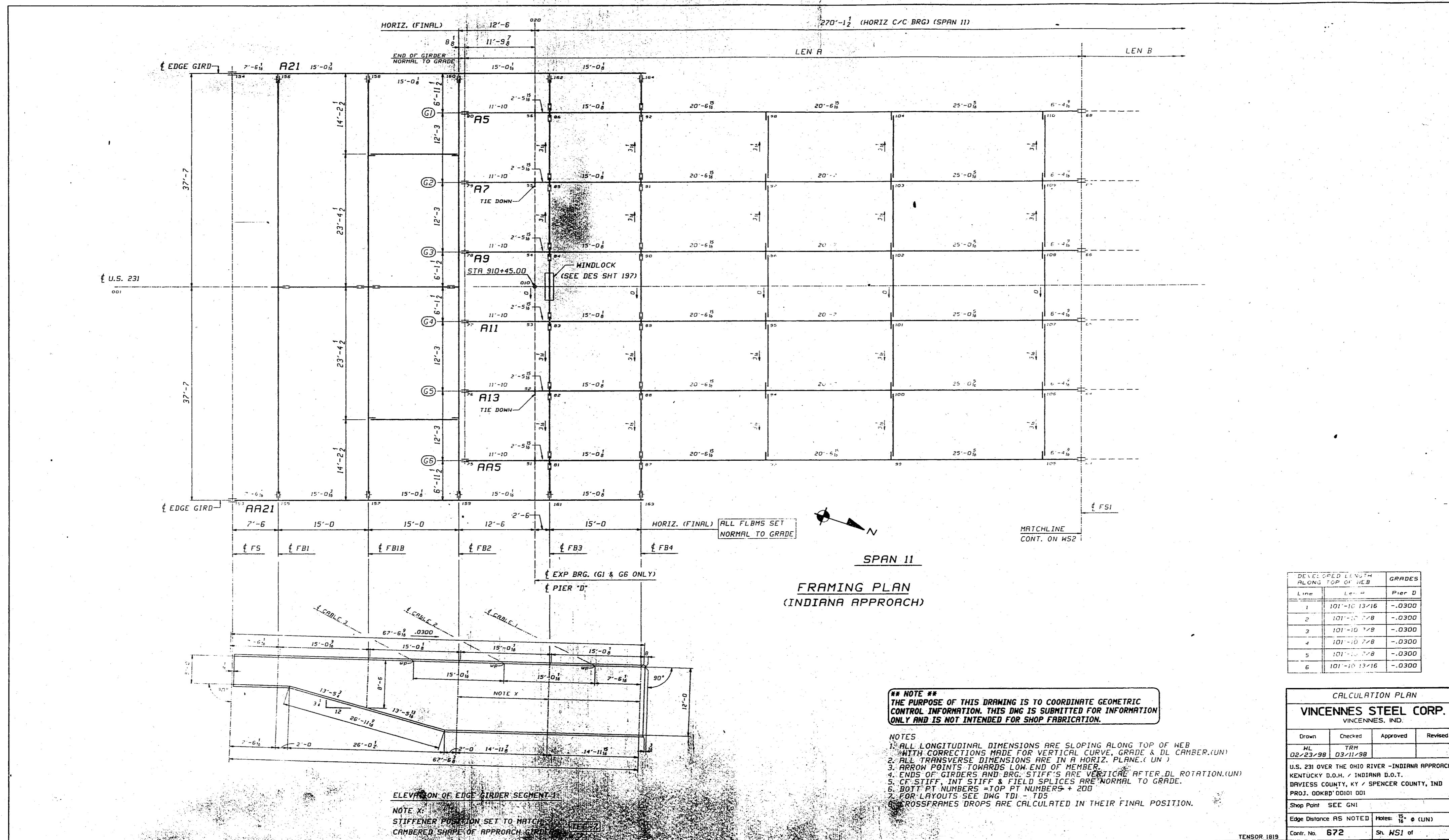
FLOORBEAM FB1
INFO NOT SHOWN IS THE SAME AS FB1B

**** NOTE ****
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

NOTES
MATERIAL M270 GR 50
MATERIAL M270 GR 50W IF IN CONTACT WITH COUNTER WEIGHT CONCRETE.
HOLES $\frac{15}{16}$ FOR $\frac{5}{8}$ A325 MECH. GALV. BOLTS. (UN)
HOLES $\frac{11}{16}$ UNLESS NOTED

FLOORBEAM FB1 & FB1B LAYOUT			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
HL	FRM		RB
03/07/98	03/13/98		5/14/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DDKBD 00101 D01			
Shop Point: SEE GNI			
Edge Distance AS NOTED			
Notes: $\frac{15}{16}$ (UN)			
Contr. No.	672	SN	TDS of

SENSOR 1819

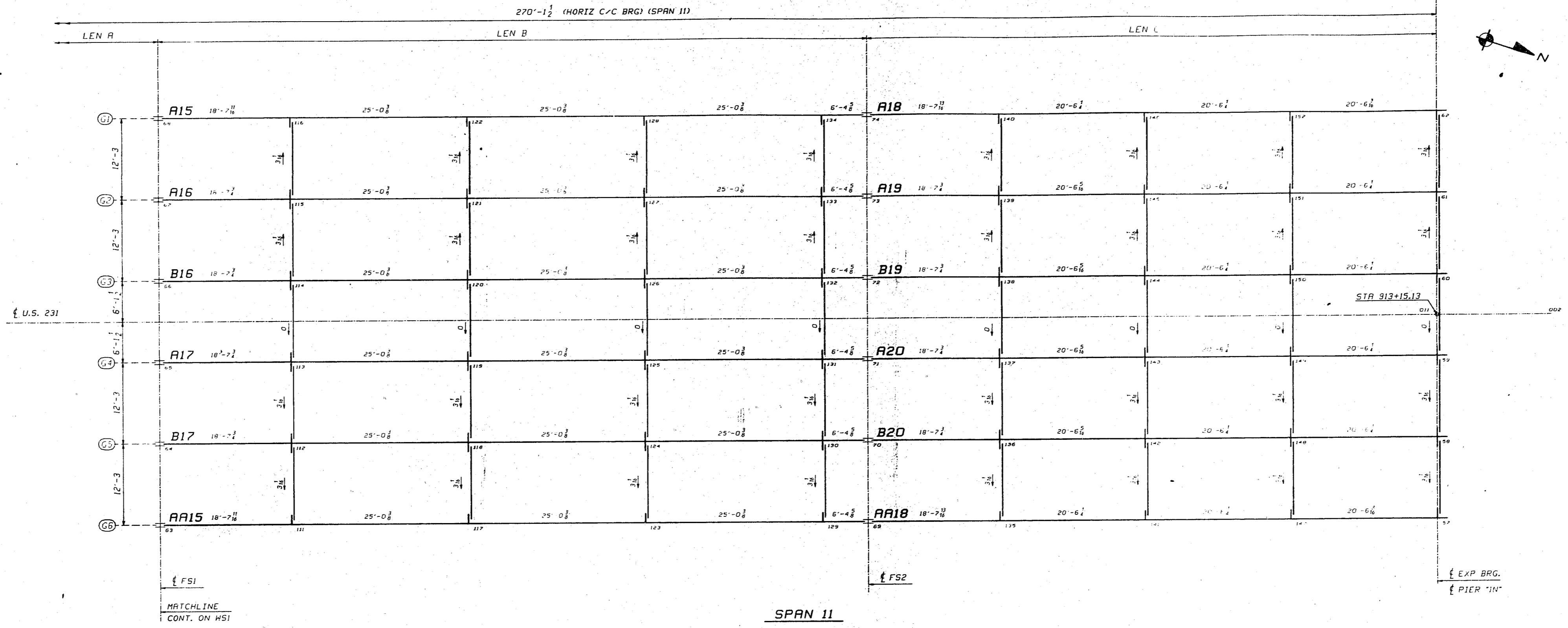


NOTE **
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DNG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

- NOTES
- 1. ALL LONGITUDINAL DIMENSIONS ARE SLOPING ALONG TOP OF WEB WITH CORRECTIONS MADE FOR VERTICAL CURVE, GRADE & DL CAMBER.(UN)
 - 2. ALL TRANSVERSE DIMENSIONS ARE IN A HORIZ. PLANE.(UN)
 - 3. ARROW POINTS TOWARD LOW END OF MEMBER.
 - 4. ENDS OF GIRDERS AND BRG. STIFFS ARE VERTICAL AFTER DL ROTATION.(UN)
 - 5. CF STIFF, INT STIFF & FIELD SPLICES ARE NORMAL TO GRADE.
 - 6. BOTT PT NUMBERS - TOP PT NUMBERS + 200
 - 7. FOR LAYOUTS SEE DNG TDI - TDS
 - 8. CROSSFRAMES DROPS ARE CALCULATED IN THEIR FINAL POSITION.

ELEVATION OF EDGE GIRDER SEGMENT 1:

NOTE X:
STIFFENER POSITION SET TO MATCH
CAMBERED SHAPE OF APPROACH GIRDER



SPAN 11
FRAMING PLAN
(INDIANA APPROACH)

Line	DEVELOPED LENGTH ALONG TOP OF WEB		GRADES
	Len B	Len C	
1	100'-1 7/16	80'-2 1/2	-.0164
2	100'-1 1/2	80'-2 9/16	-.0164
3	100'-1 1/2	80'-2 9/16	-.0164
4	100'-1 1/2	80'-2 9/16	-.0164
5	100'-1 1/2	80'-2 9/16	-.0164
6	100'-1 7/16	80'-2 1/2	-.0164

**** NOTE ****
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

FOR WORKSHEET NOTES SEE WSI.

CALCULATION PLAN

VINCENNES STEEL CORP.
VINCENNES, IND

Drawn	Checked	Approved	Revised
ML	TRM		
02/23/98	03/11/98		

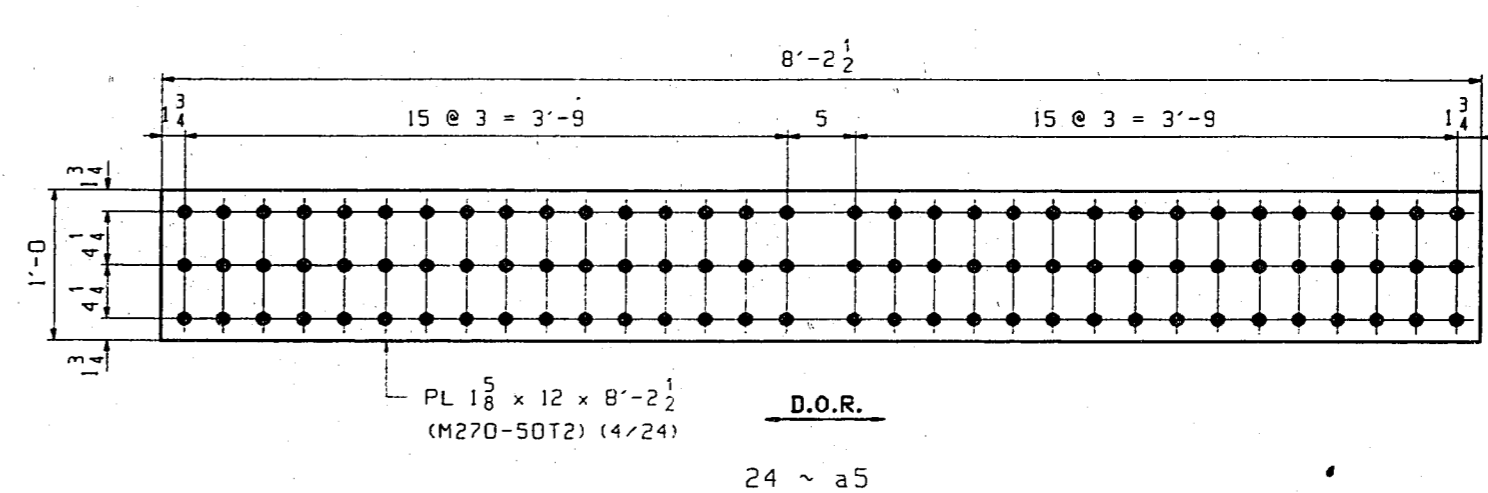
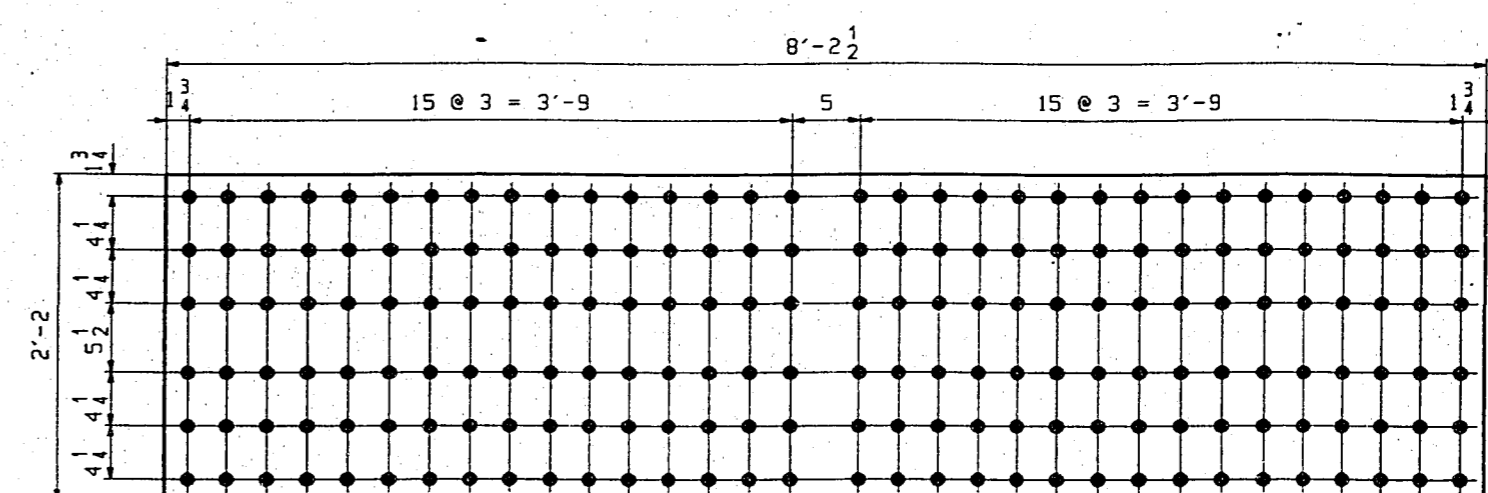
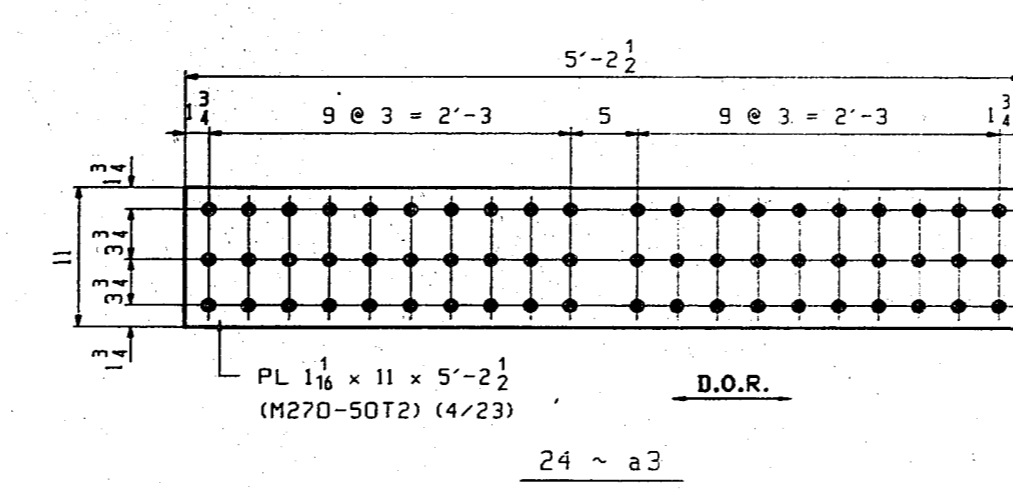
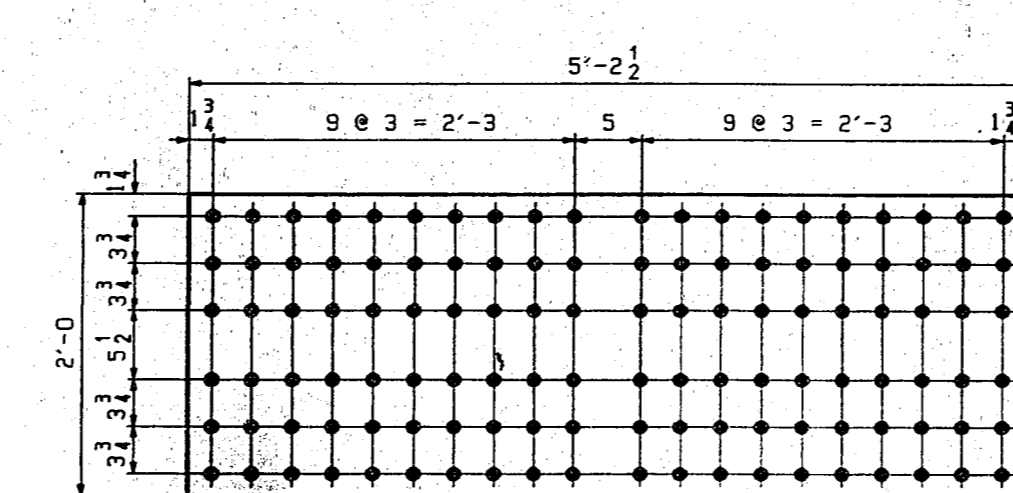
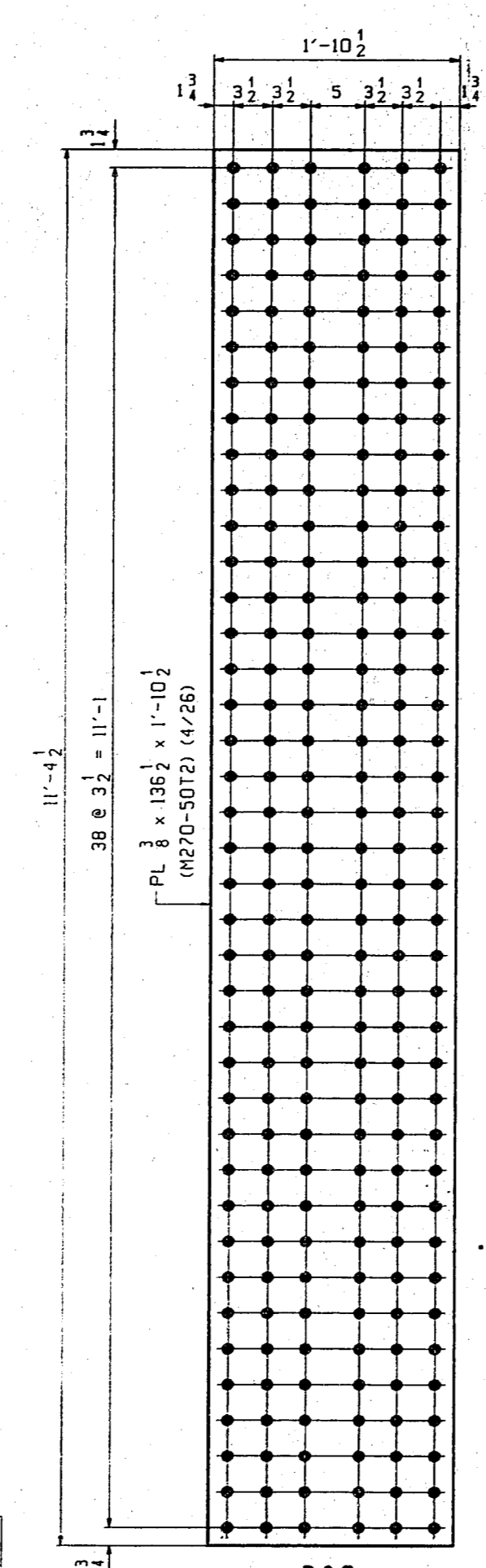
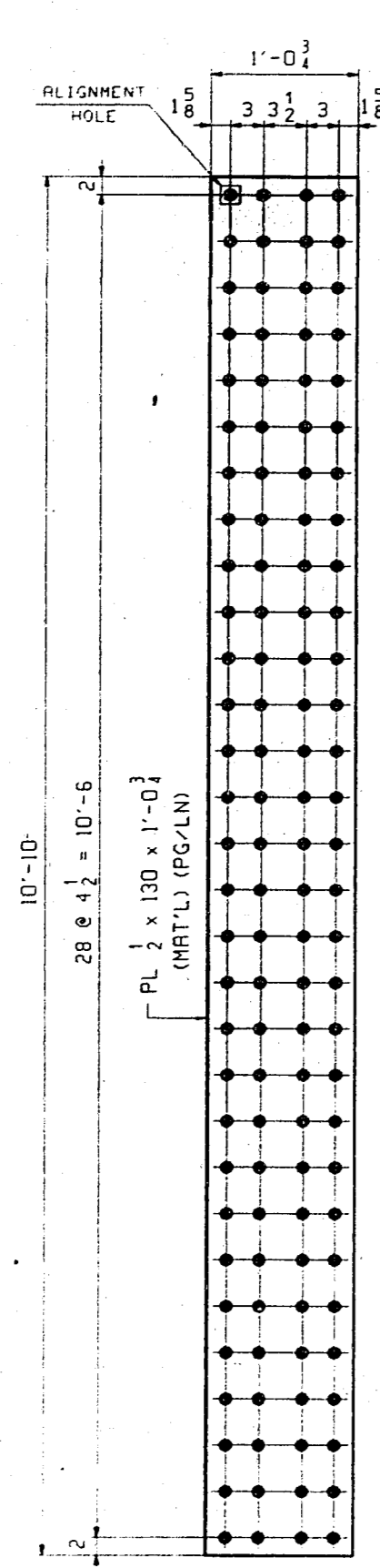
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.H. / INDIANA D.O.T.
DAVIESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 00KBD 00101 001

Shop Panel SEE GNI

Edge Distance AS NOTED

Notes: 1/2" = 1' (UN)

Tensor 1819 Contr. No 672 Sh. NS2 of



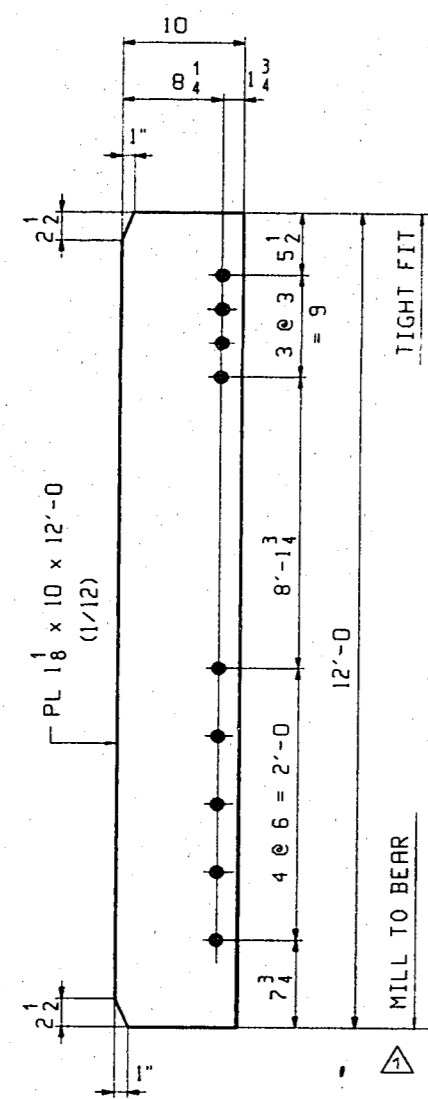
SPLICE PLATES
WEB SPL. PL. = END OF JOISTERS + FRG.

MARK	REQD	MAT'L	PG/LN
a6	8	M270-50T2	102/14
a7	4	M270-50WT2	102/15

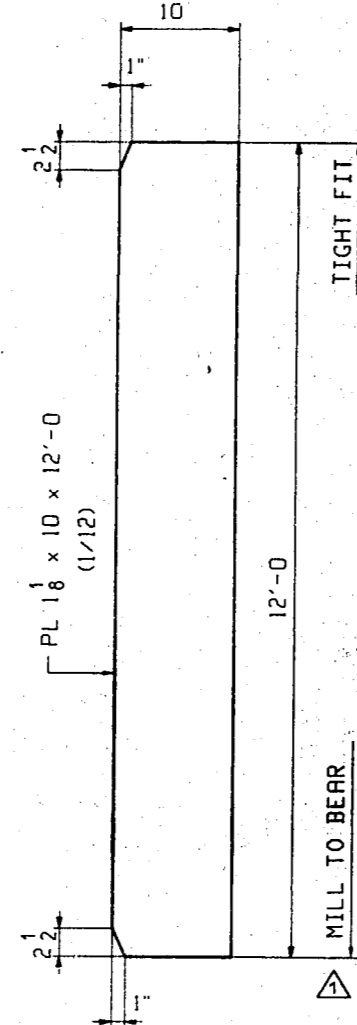
* NOTE:
WEATHERING STEEL TO BE USED
ON EXTERIOR GIRDERS 1 & 5 only.

- NOTES:
- ALL MATERIAL TO BE M270 GR50 (UN).
 - ALL HOLES TO BE \square .
 - MATERIAL NOTED "T2" SHALL BE CHAMFY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "H" FREQUENCY.
- D.O.R.** - DENOTES DIRECTION OF MILL ROLLING.

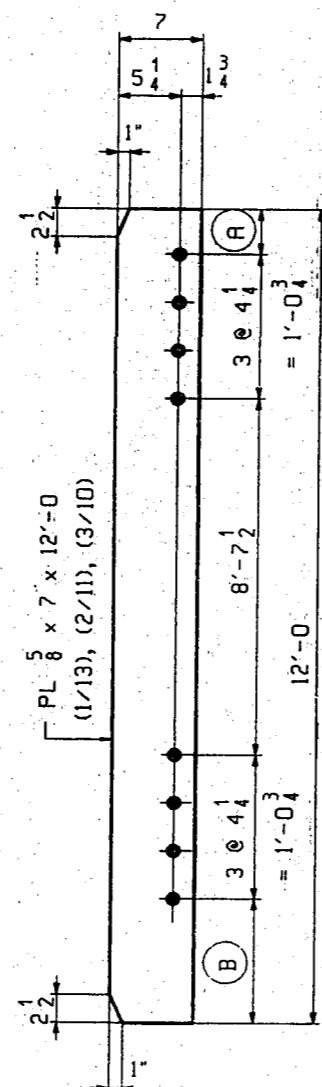
APPROVAL COMMENTS				PHG/DO
GIRDER FIELD SPLICES				
VINCENNES STEEL CORP. VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
PHG	EPE		7/8/98	
04/07/98	04/22/98			
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH				
KENTUCKY D.O.M. / INDIANA D.O.T.				
DAVISS COUNTY, KY / SPENCER COUNTY, IND				
PROJ. COKBD 00101 001				
Shop Point SEE GNI				
Edge Distance AS NOTED				
Holes: \square @ (UN)				
Contn. No. 672	Sh. 1 of			17



10 ~ b1
18PG STIFF & PIEP IN

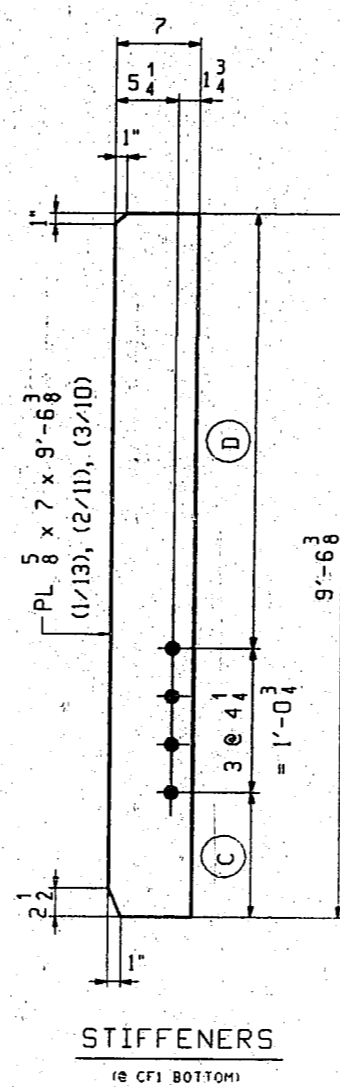


2 ~ b2
18PG STIFF & PIEP IN



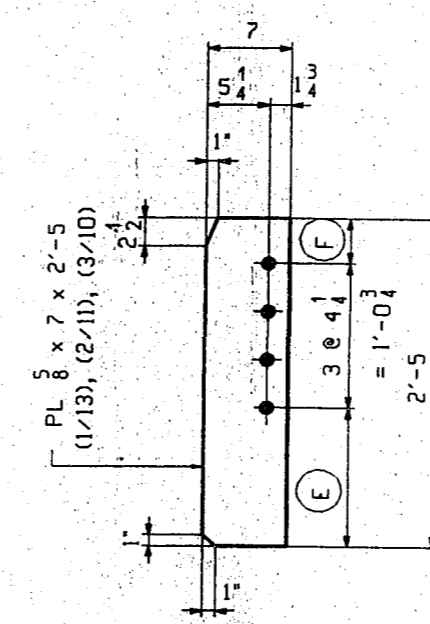
STIFFENERS
(CFI)

MARK	NO. REQD	(A)	(B)
b3	40	4	11
b4	20	7 1/16	7 5/16



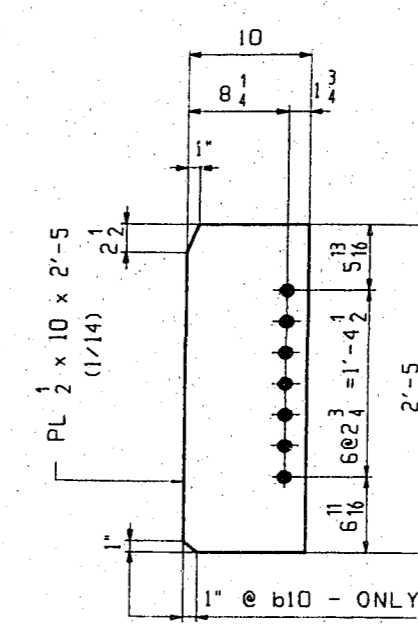
STIFFENERS
(CFI BOTTOM)

MARK	NO. REQD	(C)	(D)
b5	20	11	7'-6 5/8
b6	20	7 5/16	7'-5 11/16



STIFFENERS
(CFI TOP)

MARK	NO. REQD	(F)	(E)
b7	20	4	1'-0 1/4
b8	20	7 1/16	9 3/16

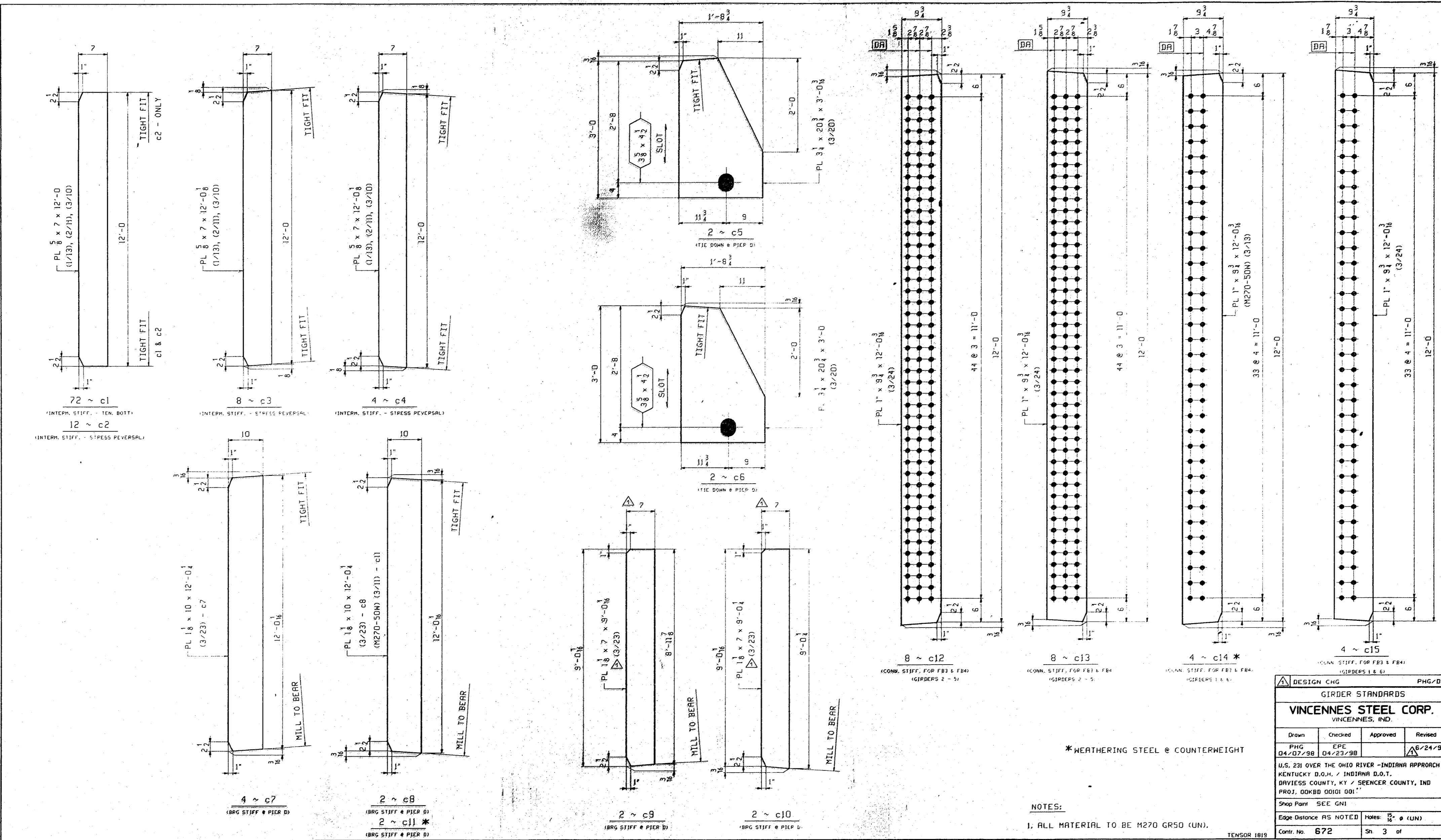


6 ~ b9
CONN. STIFF FOR W24-68

4 ~ b10
CONN. STIFF FOR W24-68

NOTES:
1. ALL MATERIAL TO BE M270 GR50.

APPROVAL COMMENTS				PHG/DO
GIRDER STANDARDS				
VINCENNES STEEL CORP. VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
PHG	EPE		7/8/98	
04/02/98	04/22/98		7/8/98	
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.R. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. DOKBD 0001 D01				
Shop Print SEE GNI				
Edge Distance AS NOTED			Holes: 15/16" (LUN)	
Contr. No. 672		Sh. 2 of 18		

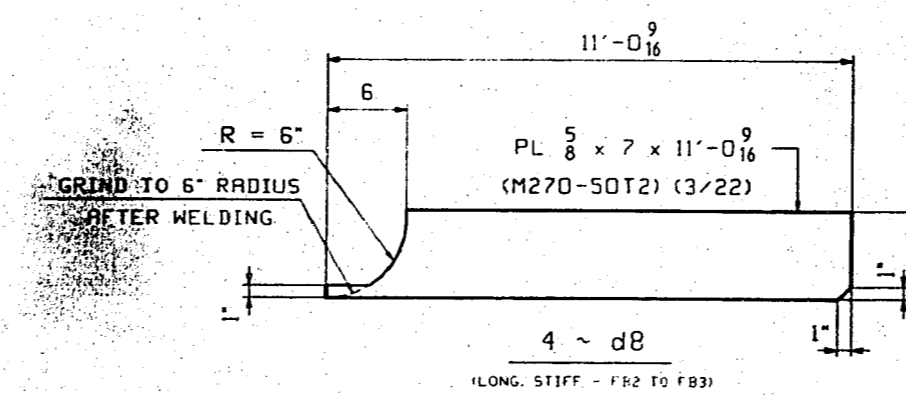
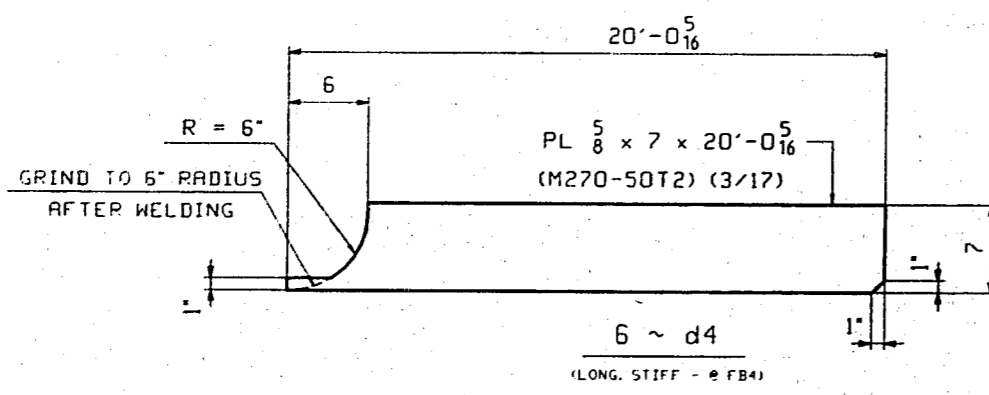
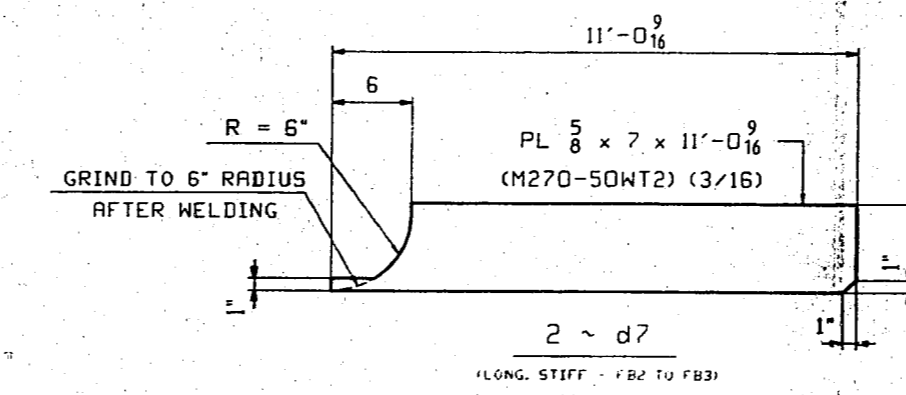
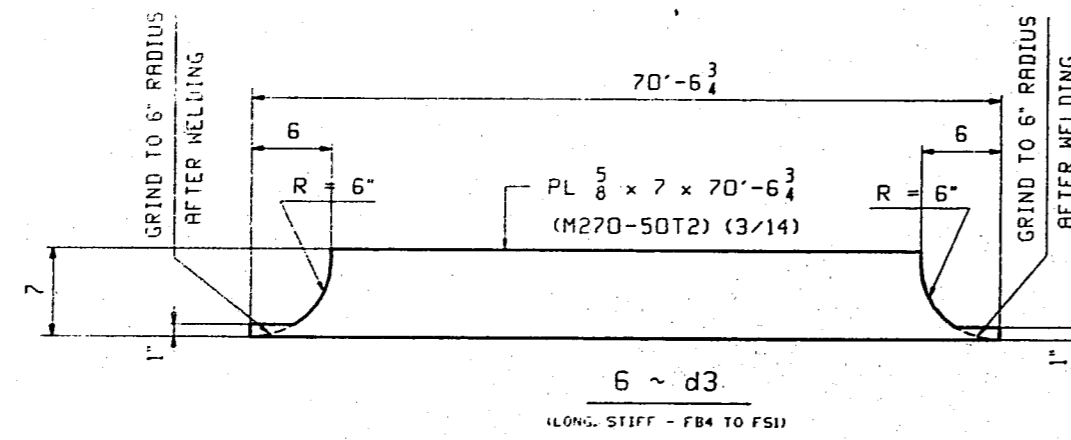
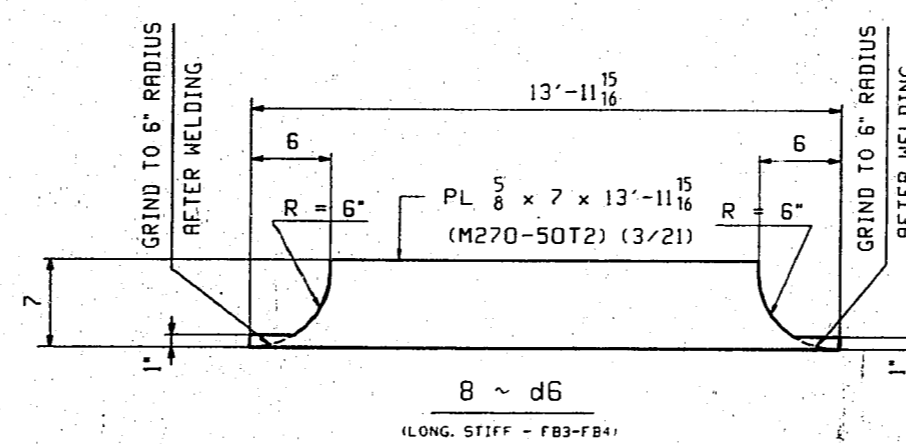
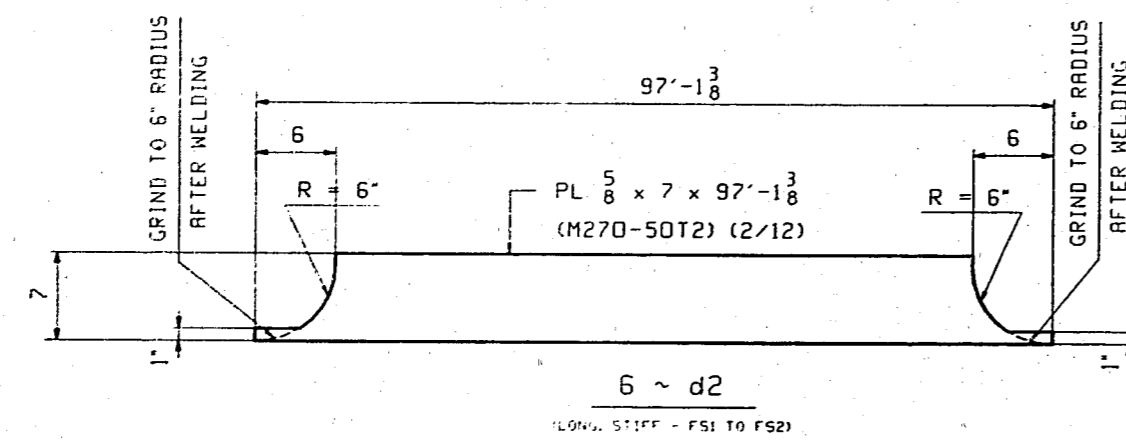
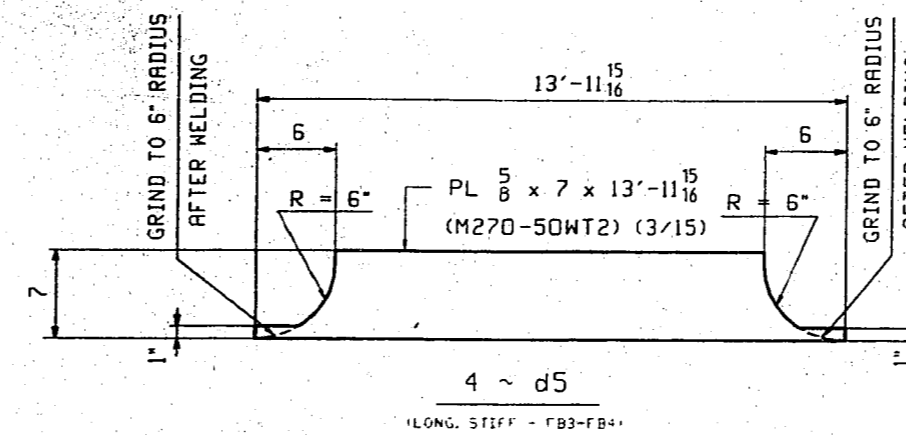
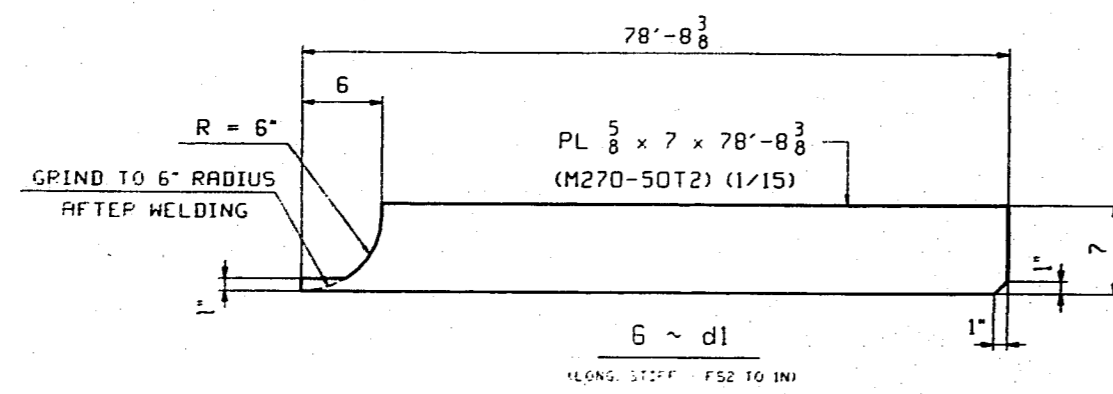


*WEATHERING STEEL @ COUNTERWEIGHT

NOTES:
1. ALL MATERIAL TO BE H270 GR50 (UN).

DESIGN CHG		PHG/DD	
GIRDER STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG	EPE		Δ/6/24/98
04/07/98	04/23/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.T. / INDIANA D.O.T.			
DRYNESS COUNTY, KY / SEACER COUNTY, IND			
PROJ. DOKB0 DD01 G01			
Shop Plans	SEC GHI		
Edge Distance AS NOTED	Notes: 15/12 * (UN)		
Contr. No. 672	Sh. 3 of		

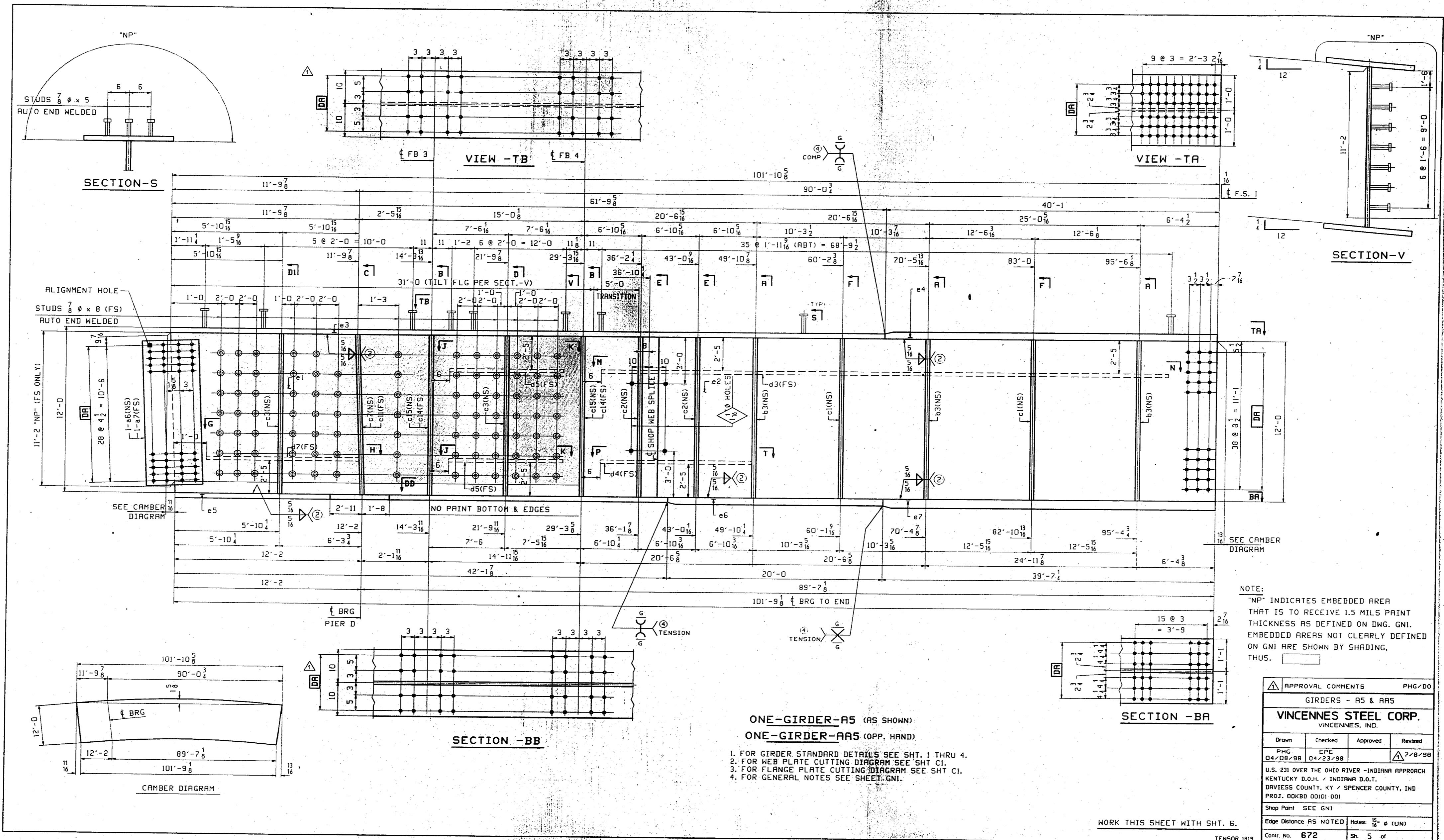
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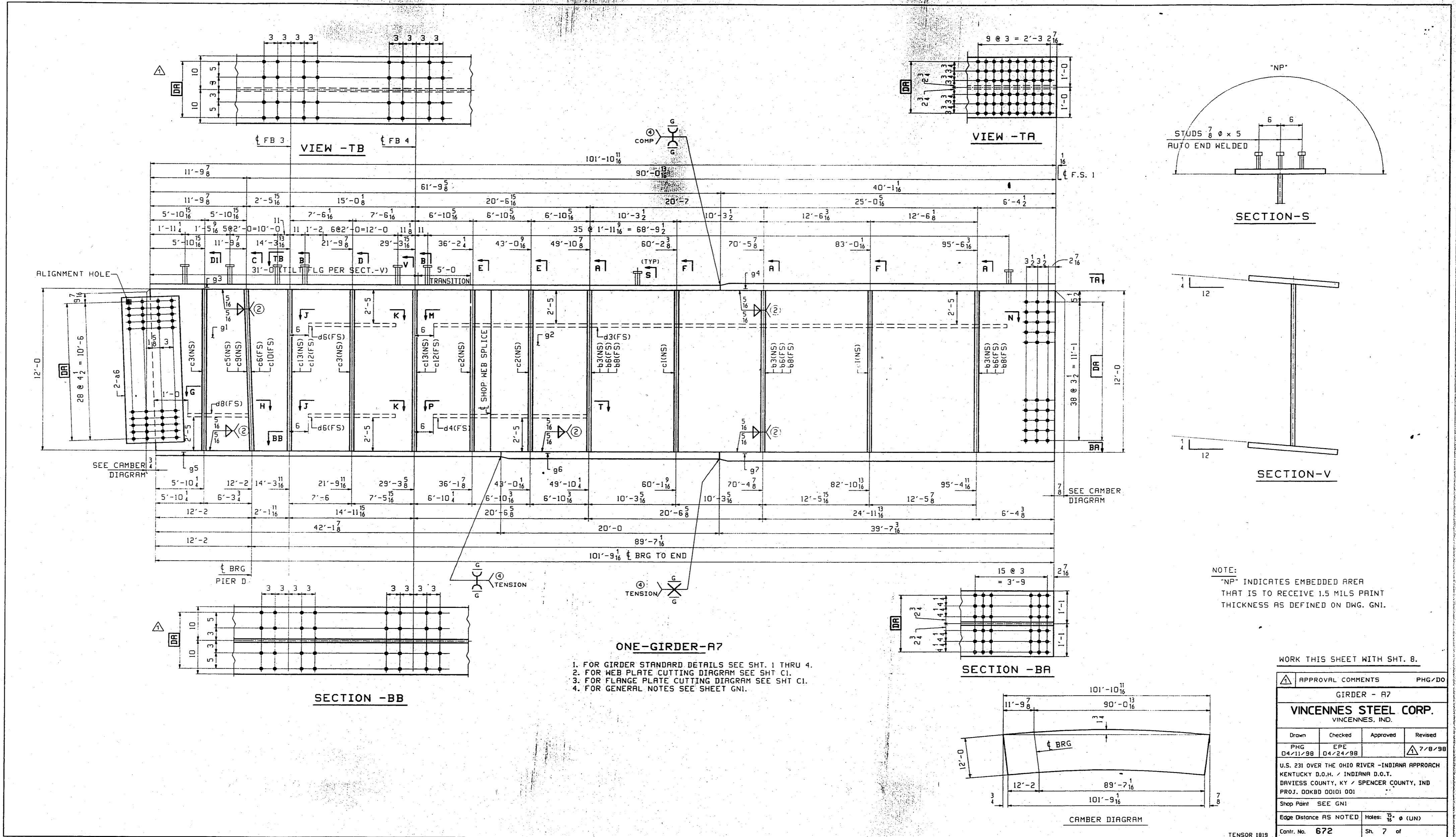


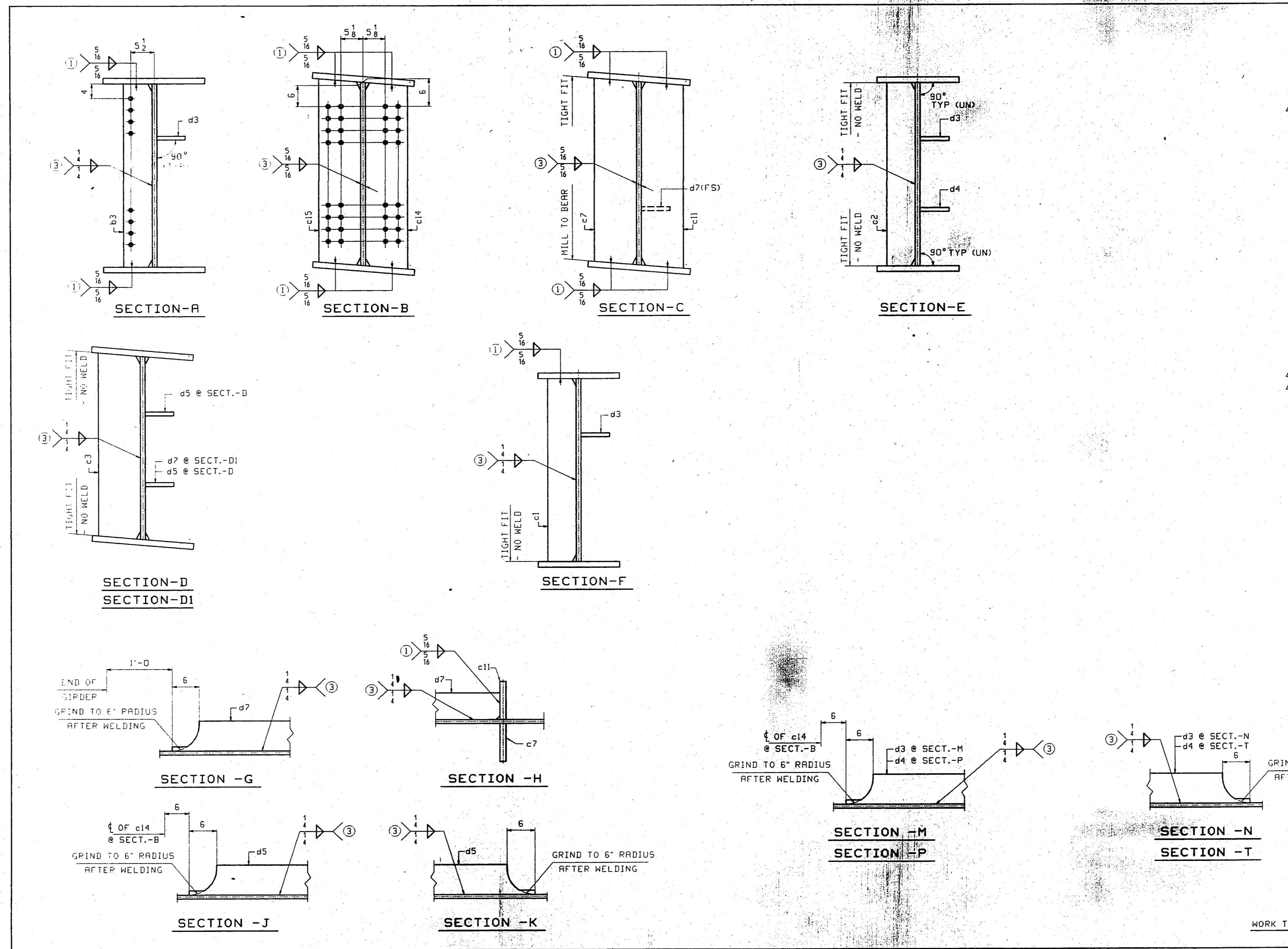
GIRDER STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG	EPE		
04/08/98	04/23/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
BAYLESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 00101 001			
Shop Part SEE GNI			
Edge Distance AS NOTED			
Notes 1/8" (UN)			
Contr. No. 672	Sh. 4 of		

SENSOR 1819

20



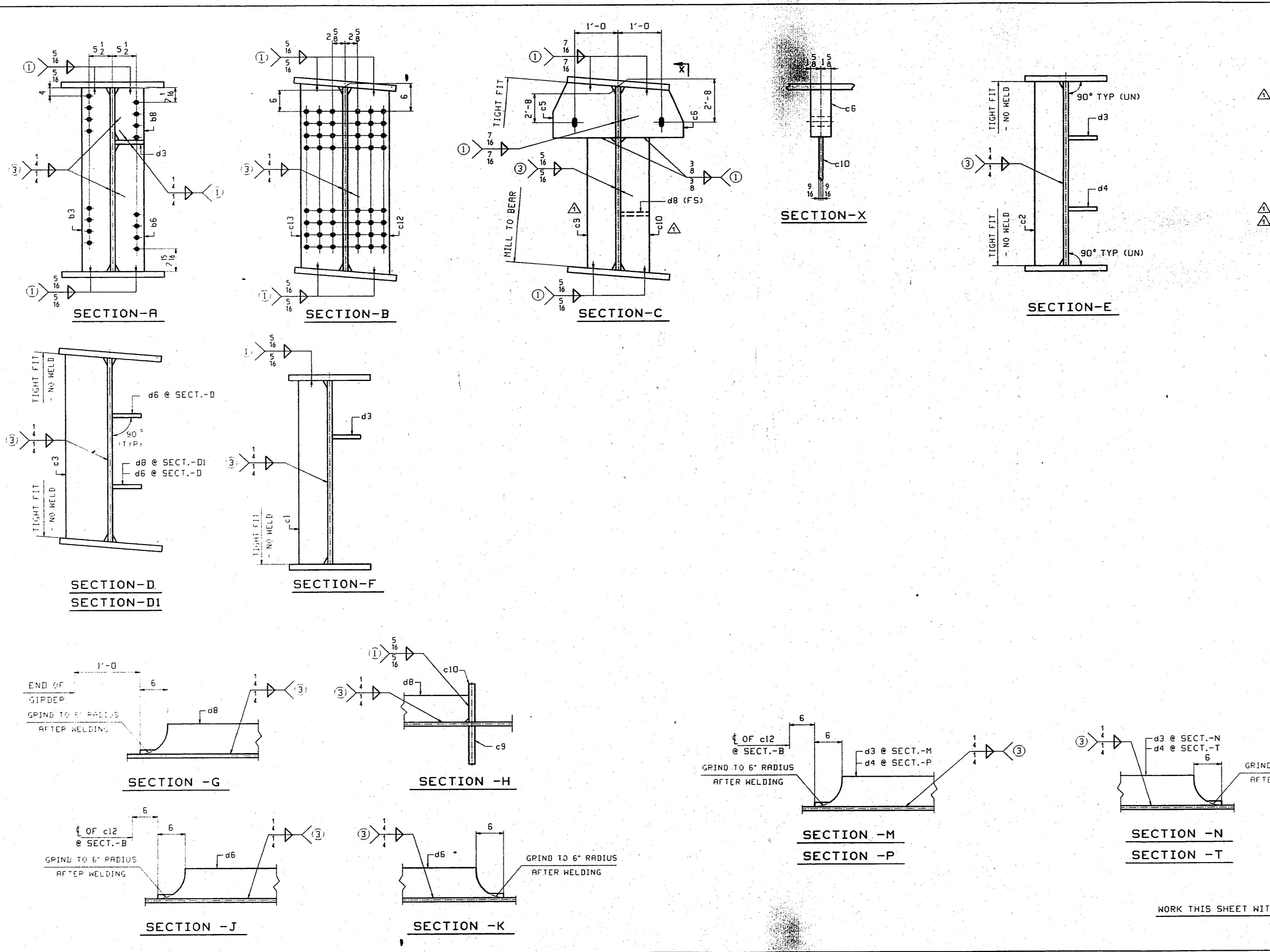




BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	GIRDER			1	AS	58558
2	GIRDER			1	ARS	58558
3						
4	PL	144 x 1/2	37'-5 1/2"	2	e1	ME70-50W T2 CABE-1 3/4
5	PL	144 x 1/2	64'-4 1/2"	2	e2	ME70-50W T2 CABE-1 3/4
6	PL	20 x 1	51'-9 1/2"	2	e3	ME70-50W T2 3/8
7	PL	24 x 2	40'-1"	2	e4	ME70-50W T2 3/8
8	PL	20 x 1	42'-1 1/2"	2	e5	ME70-50W T2 3/8
9	PL	20 x 2	20'-0"	2	e6	ME70-50W T2 3/8
10	PL	26 x 3	39'-7 1/2"	2	e7	ME70-50W T2 3/8
11						
12						
13	PL	10 x 1/4	12'-0"	2	c7	ME70-50W ME 3/23
14	PL	10 x 1/4	12'-0"	2	c11	ME70-50W ME 3/11
15	PL	9 1/2 x 1	12'-0"	4	c15	ME70-50W 3/24
16	PL	9 1/2 x 1	12'-0"	4	c14	ME70-50W 3/13
17	PL	7 x 5/8	12'-0"	6	b3	ME70-50 1/13
18	PL	7 x 5/8	12'-0"	4	c3	ME70-50 1/13
19	PL	7 x 5/8	12'-0"	4	c2	ME70-50 1/13
20	PL	7 x 5/8	12'-0"	4	c1	ME70-50 1/13
21						
22	PL	7 x 5/8	20'-6 1/2"	2	d3	ME70-50 T2 3/14
23	PL	7 x 5/8	20'-0 1/2"	2	d4	ME70-50 T2 3/12
24	PL	7 x 5/8	13'-11 1/8"	4	d5	ME70-50W T2 3/15
25	PL	7 x 5/8	11'-0 1/8"	2	d7	ME70-50W T2 3/16
26						
27	PL	130 x 1/2	1'-0"	2	e8	ME70-50 T2 102/14
28	PL	130 x 1/2	1'-0"	2	e7	ME70-50W T2 102/15
29						
30	STUD	3/4"	5	306	e8	R108 5/10
31	STUD	3/4"	8	31	e9	R108 5/12
32						
33						
34						
35						

APPROVAL COMMENTS				PHG/DO
GIRDERS - AS & ARS				
VINCENNES STEEL CORP.				
VINCENNES, IND				
Drawn	Checked	Approved	Revised	
PHG	EPE			7/8/98
04/10/98	04/23/98			
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH				
KENTUCKY D.O.M. / INDIANA D.O.T.				
DRIVESS COUNTY, KY / SPENCER COUNTY, IND				
PROJ. DOKB0 00101 001				
Shop Point SEE GNI				
Edge Distance AS NOTED			Notes	15' @ (LUN)
Contr. No. 672			Sa	6 of

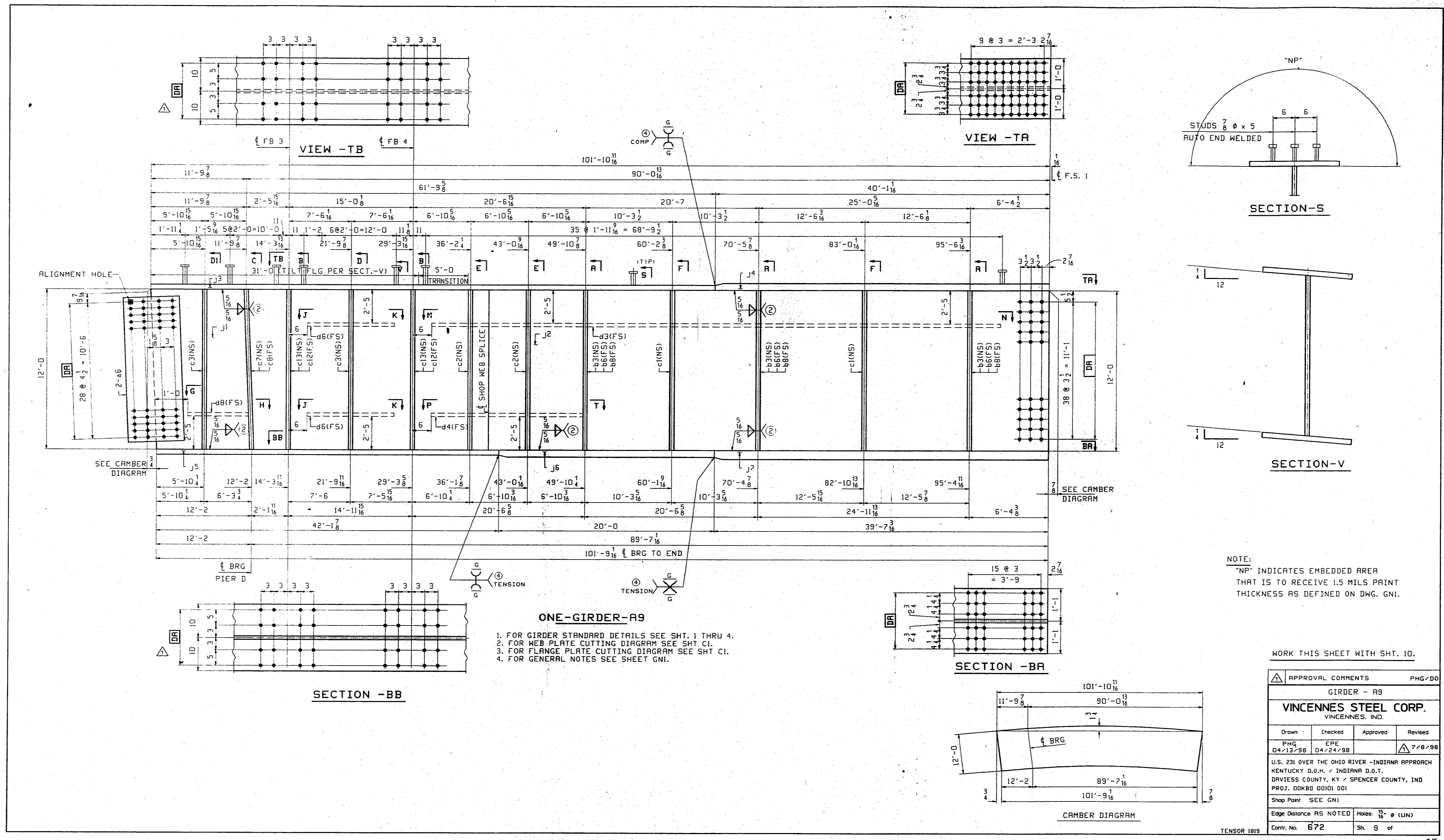
WORK THIS SHEET WITH SHT. 5.
 TENSOR 1819

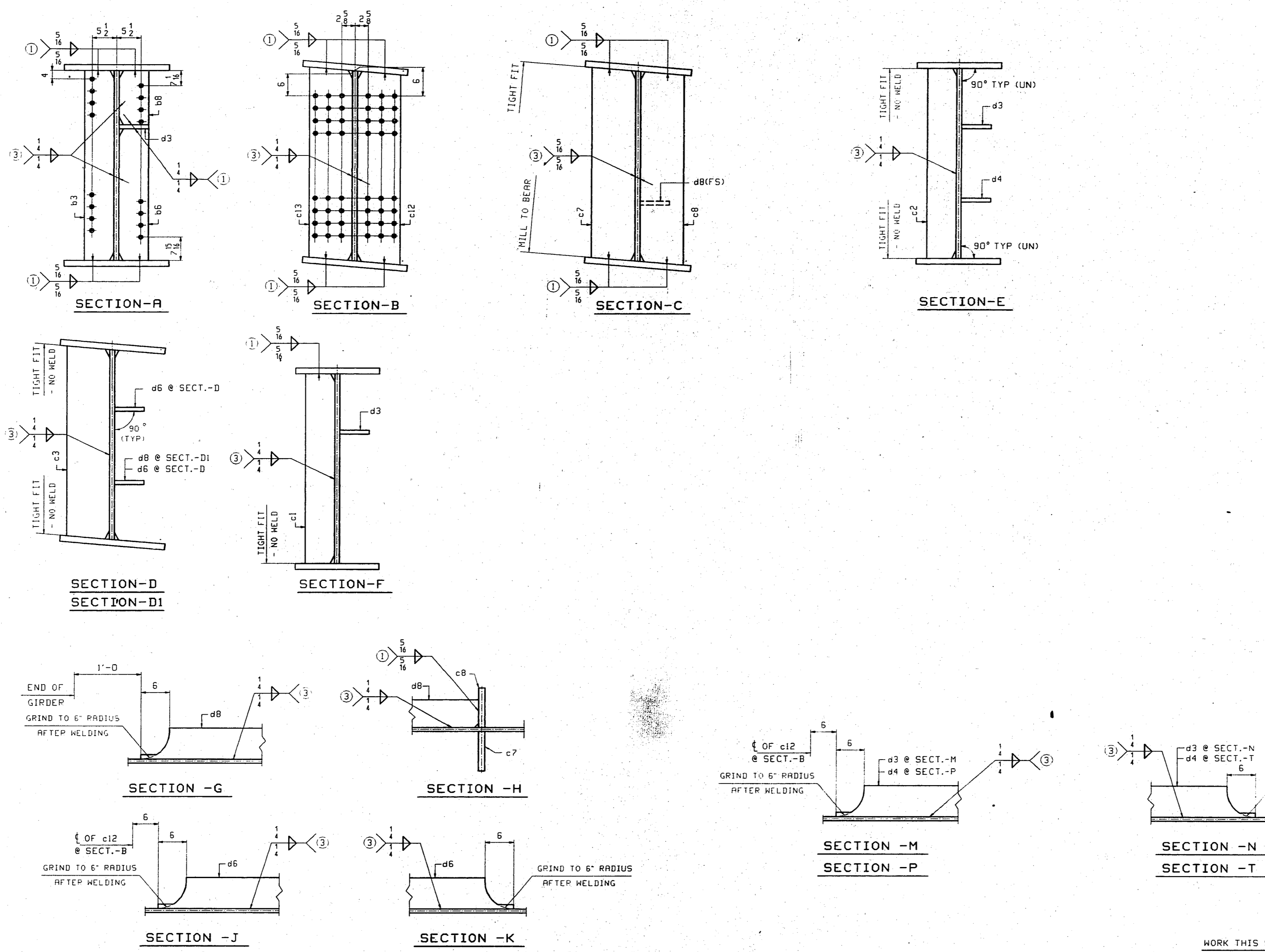


BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		GIRDER			A7		5996B
2							
3	PL	144 x 3	37'-5 1/2"	1	g1	A770-50 T2	CAMB-1 3/4
4	PL	144 x 3	64'-4 1/2"	1	g2	A770-50 T2	CAMB-1 3/4
5	PL	20 x 1	61'-3 1/2"	1	g3	A770-50 T2	3/4
6	PL	24 x 2	40'-1 1/2"	1	g4	A770-50 T2	3/4
7	PL	20 x 1	42'-1 1/2"	1	g5	A770-50 T2	3/4
8	PL	20 x 2	20'-0"	1	g6	A770-50 T2	3/4
9	PL	26 x 3	39'-7 1/2"	1	g7	A770-50 T2	3/4
10							
11							
12	PL	20 1/2 x 3 1/2	3'-0"	1	c5	A770-50	3/20
13	PL	20 1/2 x 3 1/2	3'-0"	1	c6	A770-50	3/20
14	PL	7 x 1 1/2	9'-0"	1	c9	A770-50	ME 3/23
15	PL	7 x 1 1/2	9'-0"	1	c10	A770-50	ME 3/23
16	PL	9 1/2 x 1	12'-0"	2	c13	A770-50	3/24
17	PL	9 1/2 x 1	12'-0"	2	c12	A770-50	3/24
18	PL	7 x 5/8	12'-0"	3	b3	A770-50	1/13
19	PL	7 x 5/8	9'-6 1/2"	3	b6	A770-50	1/13
20	PL	7 x 5/8	2'-5"	3	b8	A770-50	1/13
21	PL	7 x 5/8	12'-0"	2	c3	A770-50	1/13
22	PL	7 x 5/8	12'-0"	2	c2	A770-50	1/13
23	PL	7 x 5/8	12'-0"	2	c1	A770-50	1/13
24							
25	PL	7 x 5/8	70'-5 1/2"	1	d3	A770-50 T2	3/14
26	PL	7 x 5/8	20'-0"	1	d4	A770-50 T2	3/17
27	PL	7 x 5/8	13'-11 1/2"	2	d6	A770-50 T2	3/21
28	PL	7 x 5/8	11'-0 1/2"	1	d8	A770-50 T2	3/22
29							
30	PL	130 x 1/2	1'-0"	2	a6	A770-50 T2	102/14
31							
32	STUD	3/8"	5	153	b8	A108	5/10
33							
34							
35							

APPROVAL COMMENTS				DO/PHG
GIRDER - A7				
VINCENNES STEEL CORP.				
VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
PHG	EPE		7/8/98	
04/12/98	04/24/98			
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH				
KENTUCKY D.O.T. / INDIANA D.O.T.				
DAVIESS COUNTY, KY / SPENCER COUNTY, IND				
PROJ. ODKBD 00101 D01				
Shop Part SEE GNI				
Edge Distance AS NOTED Holes 15/16" Ø (UN)				
Tensor 1818		Contr. No. 672		Sh. 8 of 24

WORK THIS SHEET WITH SHT. 7.



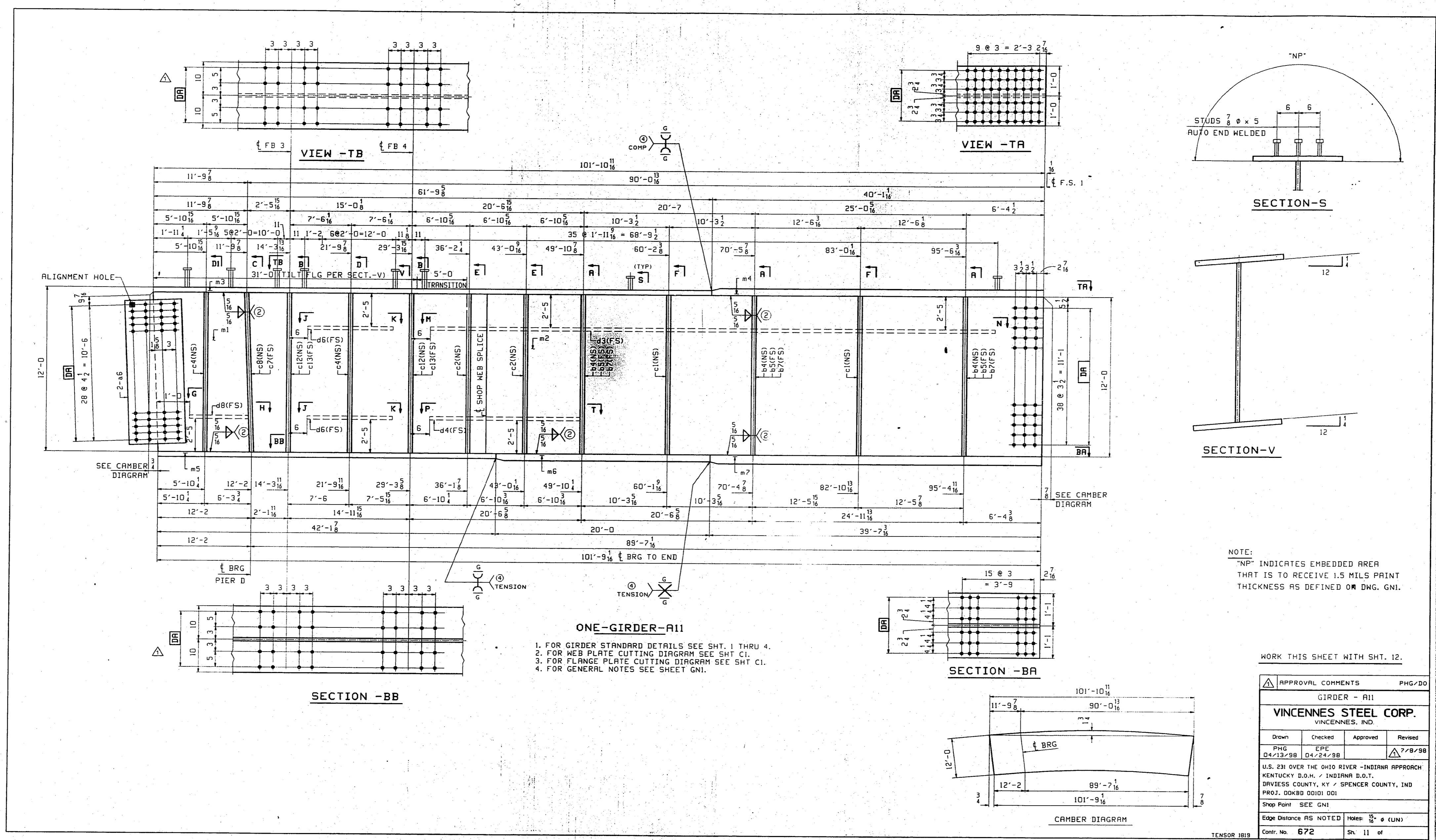


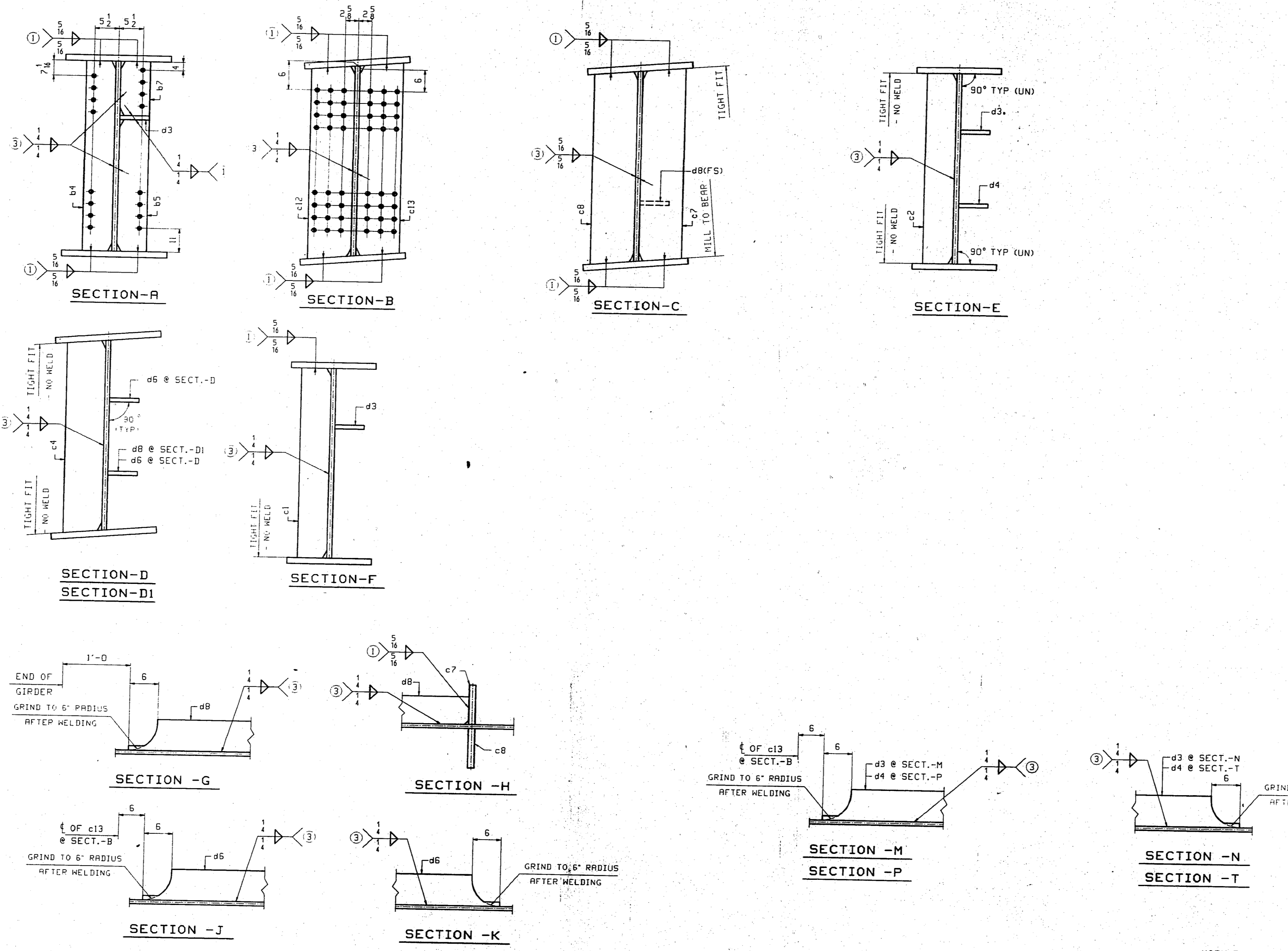
BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	GIRDER			1 A9		58025
2						
3	PL	144 x 1/2	37'-5 1/2	1 J1	A270-50 T2	CRMS-1 3/4
4	PL	144 x 1/2	64'-4 1/2	1 J2	A270-50 T2	CRMS-2 3/4
5	PL	20 x 1	61'-9 1/2	1 J3	A270-50 T2	3/4
6	PL	24 x 2	40'-1 1/2	1 J4	A270-50 T2	3/16
7	PL	20 x 1	42'-1 1/2	1 J5	A270-50 T2	3/4
8	PL	20 x 2	20'-0	1 J6	A270-50 T2	3/4
9	PL	26 x 3	38'-7 1/2	1 J7	A270-50 T2	3/16
10						
11	PL	10 x 1 1/2	12'-0 1/2	1 C7	A270-50	ME 3/23
12	PL	10 x 1 1/2	12'-0 1/2	1 C8	A270-50	ME 3/23
13	PL	9 1/2 x 1	12'-0 1/2	2 C13	A270-50	3/24
14	PL	9 1/2 x 1	12'-0 1/2	2 C12	A270-50	3/24
15	PL	7 x 3/8	12'-0	2 C3	A270-50	1/13
16	PL	7 x 3/8	9'-8 1/2	3 C5	A270-50	1/13
17	PL	7 x 3/8	2'-5	3 C6	A270-50	1/13
18	PL	7 x 3/8	12'-0 1/2	2 C3	A270-50	1/13
19	PL	7 x 3/8	12'-0	2 C2	A270-50	1/13
20	PL	7 x 3/8	12'-0	2 C1	A270-50	1/13
21						
22	PL	7 x 3/8	70'-6 1/2	1 B3	A270-50 T2	3/14
23	PL	7 x 3/8	20'-0 1/2	1 B4	A270-50 T2	3/17
24	PL	7 x 3/8	13'-11 1/2	2 B6	A270-50 T2	3/21
25	PL	7 x 3/8	11'-0 1/2	1 B8	A270-50 T2	3/22
26						
27	PL	130 x 1/2	1'-0 1/2	2 A6	A270-50 T2	102/14
28						
29	STUD	7/8	5	153 B8	A108	5/10
30						
31						
32						
33						
34						
35						

APPROVAL COMMENTS				PHG/DO
GIRDER - A9				
VINCENNES STEEL CORP.				
VINCENNES, IND.				
Drawn	Checked	Approved	Revised	
PHG	EPE		A 7/8/98	
04/13/98	04/24/98			
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH				
KENTUCKY D.O.M. / INDIANA D.O.T.				
DAVIESS COUNTY, KY / SPENCER COUNTY, IND				
PROJ. DDKBB DDID1 DD1				
Shop Part: SEE GNI				
Edge Distance AS NOTED Holes: 1/2" @ (UN)				
Contr. No. 672		Sh. 10 of		

WORK THIS SHEET WITH SHT. 9.

TENSOR 1819





BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		GIRDER		1	A11		58025
2							
3	PL	144 x 1/2	37'-5 1/2"	1	m1	A270-50W T2	CRMS-1 3/4
4	PL	144 x 1/2	64'-4 1/4"	1	m2	A270-50 T2	CRMS-1 3/4
5	PL	20 x 1	61'-9 1/2"	1	m3	A270-50 T2	3/8
6	PL	24 x 2	40'-1 1/2"	1	m4	A270-50 T2	3/8
7	PL	20 x 1	42'-1 1/2"	1	m5	A270-50W T2	3/8
8	PL	20 x 2	20'-0"	1	m6	A270-50 T2	3/8
9	PL	26 x 3	38'-7 1/2"	1	m7	A270-50 T2	3/8
10							
11	PL	10 x 1 1/8	12'-0 1/2"	1	c7	A270-50	NE 3/23
12	PL	10 x 1 1/8	12'-0 1/2"	1	c8	A270-50	NE 3/23
13	PL	9 1/2 x 1	12'-0 1/2"	2	c13	A270-50	3/24
14	PL	9 1/2 x 1	12'-0 1/2"	2	c12	A270-50	3/24
15	PL	7 x 5/8	12'-0"	3	b4	A270-50	1/13
16	PL	7 x 5/8	9'-6 3/4"	3	b5	A270-50	1/13
17	PL	7 x 5/8	2'-5"	3	b7	A270-50	1/13
18	PL	7 x 5/8	12'-0 1/2"	2	c4	A270-50	1/13
19	PL	7 x 5/8	12'-0"	2	c2	A270-50	1/13
20	PL	7 x 5/8	12'-0"	2	c1	A270-50	1/13
21							
22	PL	7 x 5/8	70'-6 3/4"	1	a3	A270-50 T2	3/14
23	PL	7 x 5/8	20'-0 1/2"	1	a4	A270-50 T2	3/17
24	PL	7 x 5/8	13'-11 1/8"	2	a6	A270-50 T2	3/21
25	PL	7 x 5/8	11'-0 1/2"	1	a8	A270-50 T2	3/22
26							
27	PL	130 x 1/2	1'-0 1/2"	2	a6	A270-50 T2	102/14
28							
29	STUD	1/2"	5	153	e8	A108	5/10
30							
31							
32							
33							
34							
35							

APPROVAL COMMENTS PHG/DO

GIRDER - A11

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
PHG	EPE		
04/13/98	04/24/98		7/8/98

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.H. / INDIANA D.O.T.
BARISS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 00RBD 00101 001

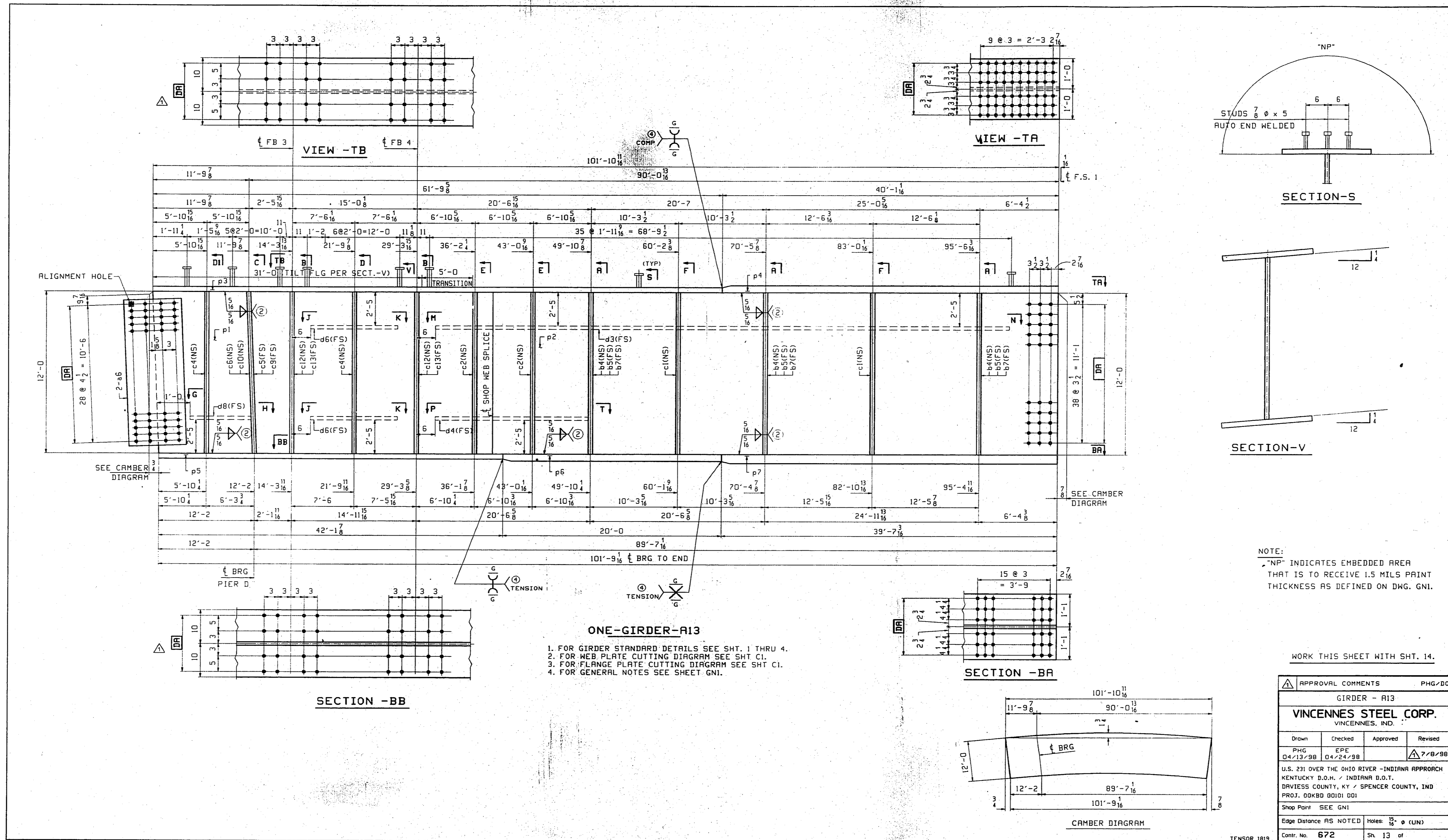
Shop Point SEE GNI

Edge Distance AS NOTED Holes: 1/2" (UN)

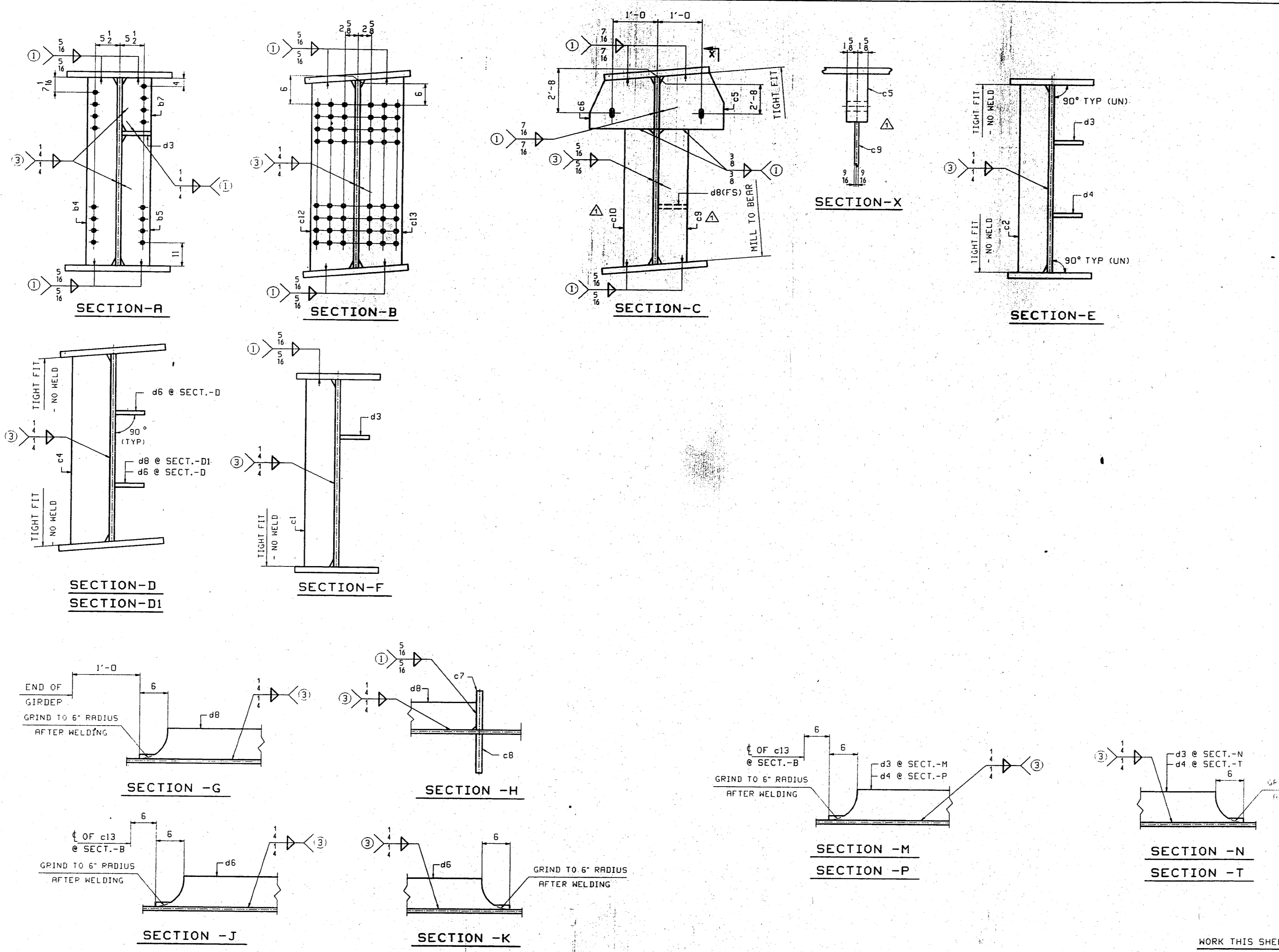
Contr. No. 672 Sh. 12 of

WORK THIS SHEET WITH SHT. 11.

TENSON 1819



TENSOR 1819

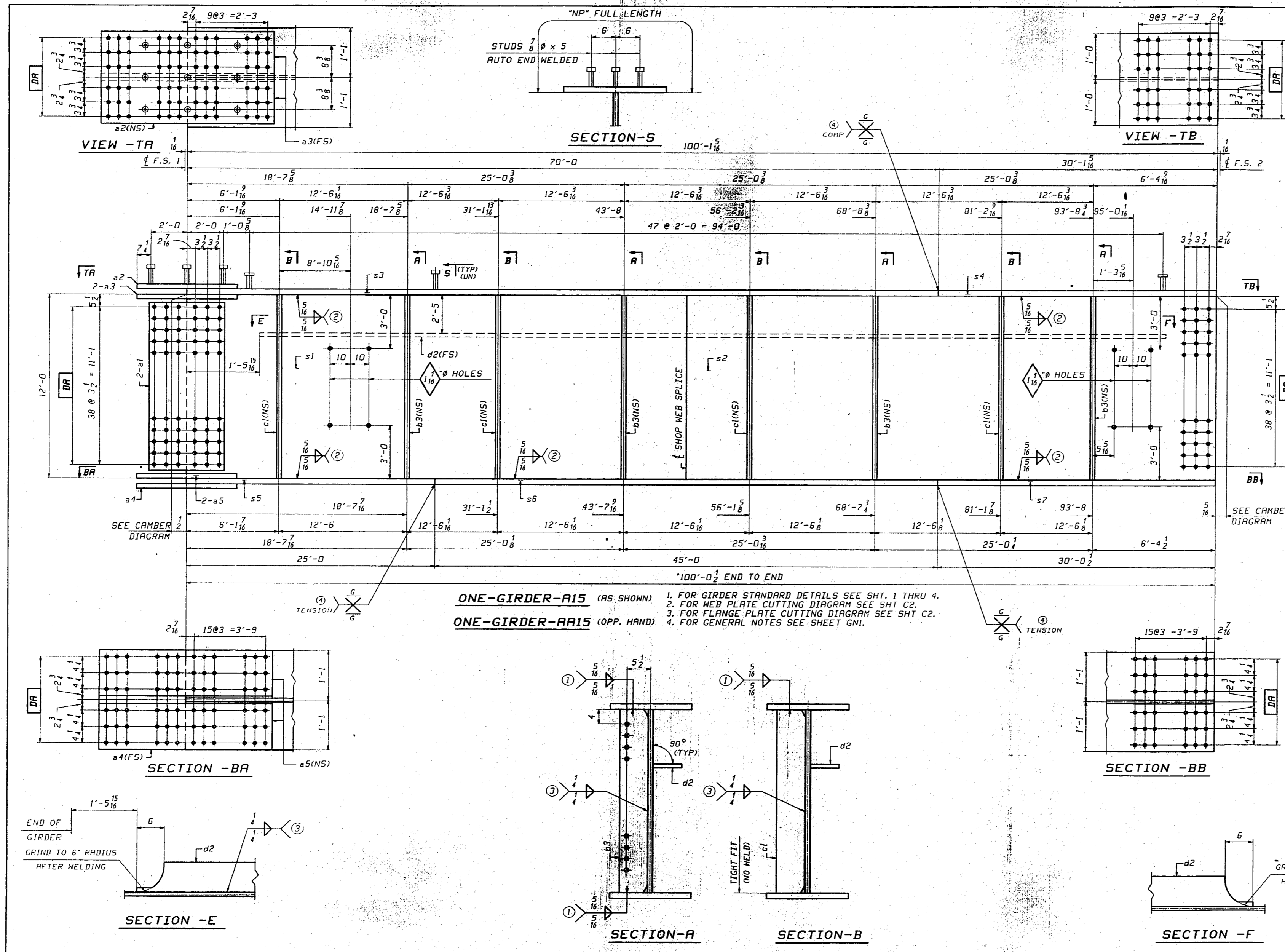


BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1		GIRDER		1	A13	59988
2						
3	PL	144 x 3	37'-5 7/8"	1	p1	A270-50 T2 CAMP-5 2/4
4	PL	144 x 3	64'-4 1/8"	1	p2	A270-50 T2 CAMP-5 2/4
5	PL	20 x 1	61'-9 1/8"	1	p3	A270-50 T2 2/4
6	PL	24 x 2	40'-1 1/8"	1	p4	A270-50 T2 2/4
7	PL	20 x 2	42'-1 1/8"	1	p5	A270-50 T2 2/4
8	PL	20 x 2	20'-0"	1	p6	A270-50 T2 2/4
9	PL	26 x 3	39'-7 1/8"	1	p7	A270-50 T2 2/4
10						
11	PL	20 1/2 x 3 1/2	3'-0 1/2"	1	c5	A270-50 2/20
12	PL	20 1/2 x 3 1/2	3'-0"	1	c6	A270-50 2/20
13	PL	7 x 1 1/2	9'-0 1/2"	1	c8	A270-50 2/22
14	PL	9 1/2 x 1 1/2	9'-0 1/2"	1	c10	A270-50 2/22
15	PL	9 1/2 x 1	12'-0 1/2"	2	c12	A270-50 2/24
16	PL	9 1/2 x 1	12'-0 1/2"	2	c13	A270-50 2/24
17	PL	7 x 5/8	12'-0"	3	b4	A270-50 1/13
18	PL	7 x 5/8	9'-6 1/2"	3	b5	A270-50 1/13
19	PL	7 x 5/8	2'-5"	3	b7	A270-50 1/13
20	PL	7 x 5/8	12'-0 1/2"	2	c4	A270-50 1/13
21	PL	7 x 5/8	12'-0"	2	c2	A270-50 1/13
22	PL	7 x 5/8	12'-0"	2	c1	A270-50 1/13
23						
24	PL	7 x 5/8	70'-6 1/2"	1	d3	A270-50 T2 2/14
25	PL	7 x 5/8	20'-0 1/2"	1	d4	A270-50 T2 2/17
26	PL	7 x 5/8	13'-11 1/2"	2	d6	A270-50 T2 2/21
27	PL	7 x 5/8	11'-0 1/2"	1	d8	A270-50 T2 2/22
28						
29	PL	130 x 1/2	1'-0 1/2"	2	a6	A270-50 T2 102/14
30						
31	STUD	3/8"	5'	153	a8	102/14 5/10
32						
33						
34						
35						

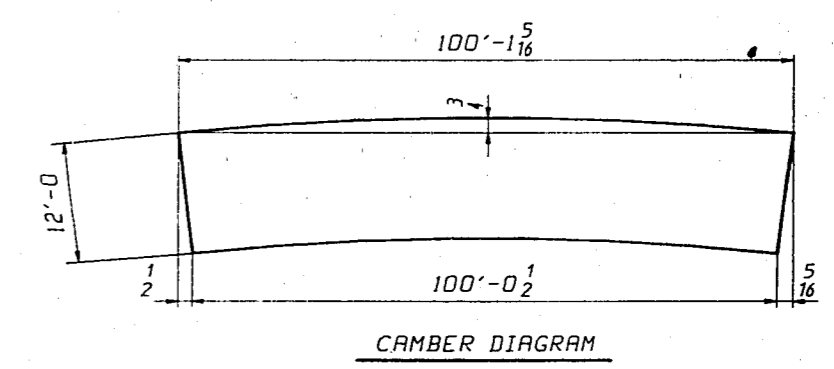
APPROVAL COMMENTS			DO/PHG
GIRDER - A13			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG	EPE		7/8/98
04/13/98	04/24/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.M. / INDIANA D.O.T. BARVLESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K8D 00101 001			
Shop Point SEE GNI			
Edge Distance AS NOTED			
Holes: 1/2" @ (UN)			
Contr. No. 672		Sh. 14 of	

WORK THIS SHEET WITH SH. 13.

10/508 1819



BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	GIRDER			1	A15	75855
2	GIRDER			1	A15	75855
3	PL	144 x 1/2	49'-11 1/2	2	s1	A270-50 T2 COMP-1 2/3
4	PL	144 x 1/2	50'-1 1/2	2	s2	A270-50 T2 COMP-1 2/4
5	PL	26 x 2	70'-0	2	s3	A270-50 T2 2/5
6	PL	24 x 2	30'-1 1/2	2	s4	A270-50 T2 2/6
7	PL	26 x 3	25'-0	2	s5	A270-50 T2 2/7
8	PL	26 x 3	45'-0	2	s6	A270-50 T2 2/8
9	PL	26 x 3	30'-0 1/2	2	s7	A270-50 T2 2/9
10	PL	136 1/2 x 1/2	1'-10 1/2	4	a1	A270-50 T2 4/23
11	PL	24 x 1/2	5'-2 1/2	2	a2	A270-50 T2 4/24
12	PL	11 x 1/4	5'-2 1/2	4	a3	A270-50 T2 4/25
13	PL	26 x 1 1/2	8'-2 1/2	2	a4	A270-50 T2 4/26
14	PL	12 x 1 1/2	8'-2 1/2	4	a5	A270-50 T2 4/27
15	PL	7 x 5/8	12'-0	8	b3	A270-50 2/31
16	PL	7 x 5/8	12'-0	8	c1	A270-50 2/32
17	PL	7 x 5/8	97'-1 1/2	2	d2	A270-50 T2 2/33
18	STUD	1/2 x 5		306	e8	A108 3/10

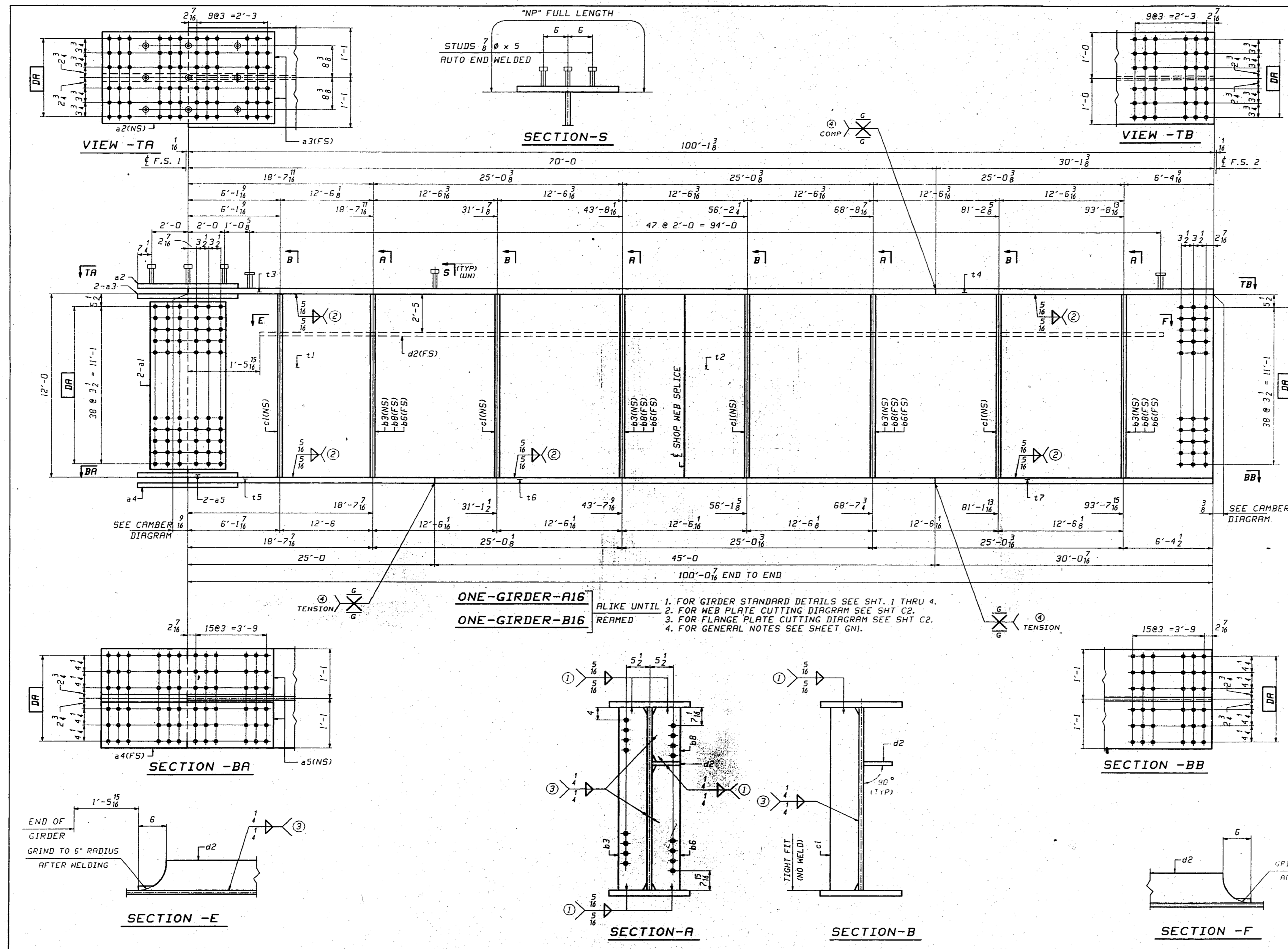


ONE-GIRDER-A15 (AS SHOWN) 1. FOR GIRDER STANDARD DETAILS SEE SHT. 1 THRU 4.
ONE-GIRDER-A15 (OPP. HAND) 2. FOR WEB PLATE CUTTING DIAGRAM SEE SHT C2.
 3. FOR FLANGE PLATE CUTTING DIAGRAM SEE SHT C2.
 4. FOR GENERAL NOTES SEE SHEET GNI.

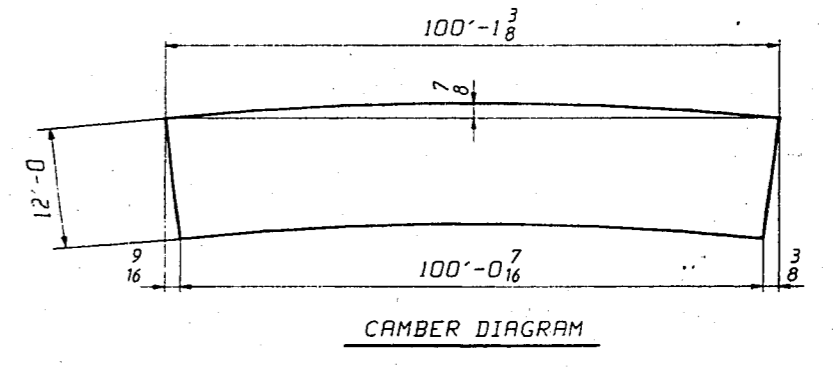
NOTE:
 NP INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET GNI.

GIRDERS - A15 & A15			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
04/09/98	04/25/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 0001 001			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes: 1/2" x 5/8" (UN)			
Contr. No. 672		Sh. 15 of 31	

TENSOR 1819



BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	GIRDER			1 A16		76567
2	GIRDER			1 B16		76567
3	PL	144 x 2	49'-11 1/2	2 L1	A70-50 T2	CORR-1 2/3
4	PL	144 x 2	50'-11 1/2	2 L2	A70-50 T2	CORR-1 2/3
5	PL	26 x 2	70'-0	2 L3	A70-50 T2	2/3
6	PL	24 x 2	30'-1 1/2	2 L4	A70-50 T2	2/3
7	PL	26 x 3	25'-0	2 L5	A70-50 T2	2/10
8	PL	28 x 3	45'-0	2 L6	A70-50 T2	2/10
9	PL	26 x 3	30'-0 1/2	2 L7	A70-50 T2	2/10
10	PL	136 1/2 x 8	1'-10 1/2	4 e1	A70-50 T2	4/26
11	PL	24 x 8	5'-2 1/2	2 e2	A70-50 T2	4/26
12	PL	11 x 1 1/2	5'-2 1/2	4 e3	A70-50 T2	4/26
13	PL	26 x 1 1/2	8'-2 1/2	2 e4	A70-50 T2	4/26
14	PL	12 x 1 1/2	8'-2 1/2	4 e5	A70-50 T2	4/26
15	PL	7 x 5/8	12'-0	8 e3	A70-50	2/11
16	PL	7 x 5/8	9'-6 1/2	8 e6	A70-50	2/11
17	PL	7 x 5/8	2'-5	8 e8	A70-50	2/11
18	PL	7 x 5/8	12'-0	8 e1	A70-50	2/11
19	PL	7 x 5/8	9'-1 1/2	2 e2	A70-50 T2	2/11
20	STUD	7/8"	5	306 e8	A108	5/10

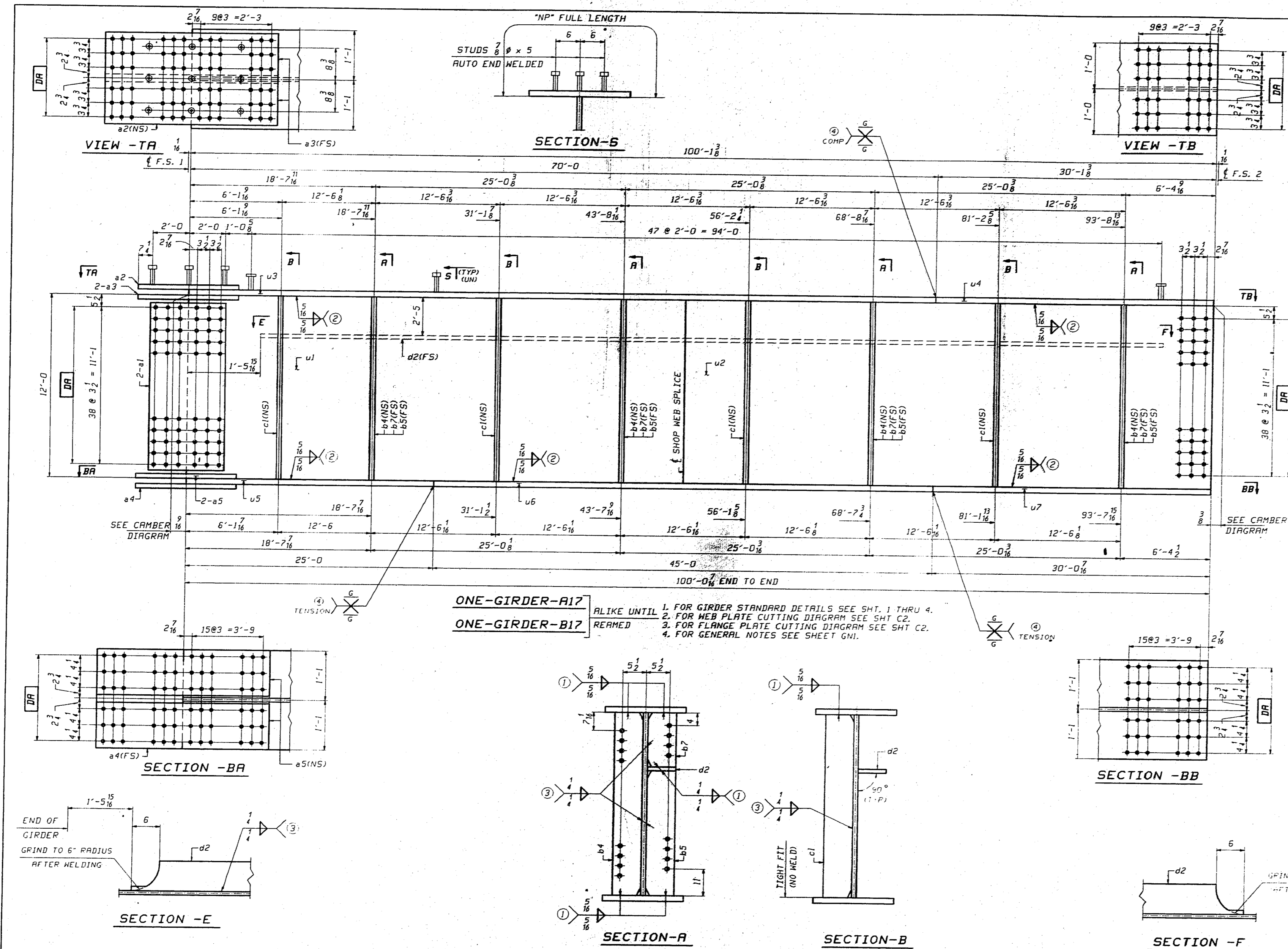


ONE-GIRDER-A16
ONE-GIRDER-B16
 ALIKE UNTIL REMOVED
 1. FOR GIRDER STANDARD DETAILS SEE SHT. 1 THRU 4.
 2. FOR WEB PLATE CUTTING DIAGRAM SEE SHT C2.
 3. FOR FLANGE PLATE CUTTING DIAGRAM SEE SHT C2.
 4. FOR GENERAL NOTES SEE SHEET GNI.

NOTE:
 "NP" INDICATES EMBEDDED AREA
 THAT IS TO RECEIVE 1.5 MILS
 PAINT THICKNESS AS DEFINED
 ON SHEET GNI.

GIRDERS - A16 & B16			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
04-10-98	04-25-98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DOKB0 D01D1 D01			
Shop Point SEE GNI			
Edge Distance AS NOTED Holes: 3/8" (LUN)			
Cont. No. 672	Sh. 16 of		

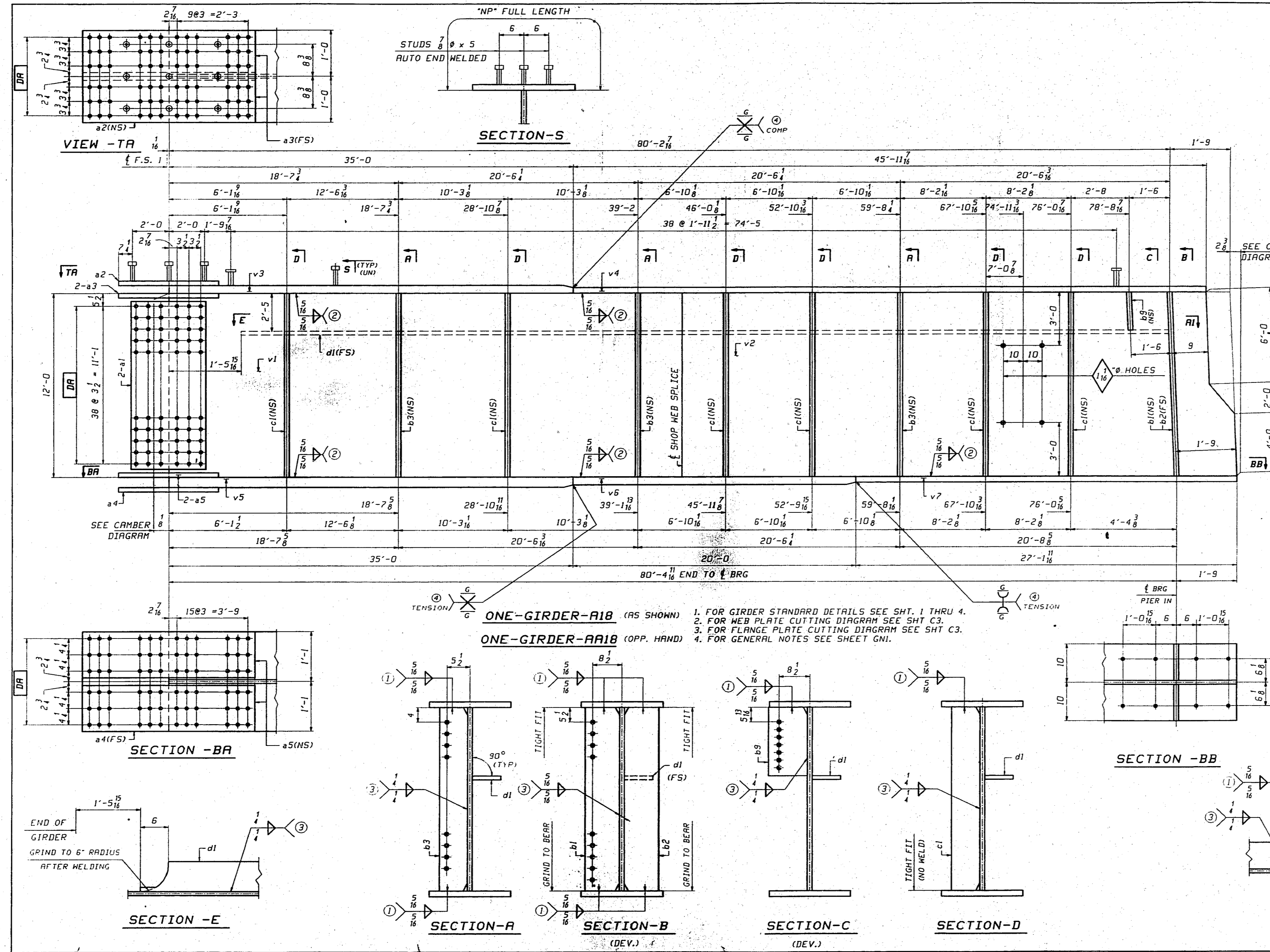
SENSOR 1819



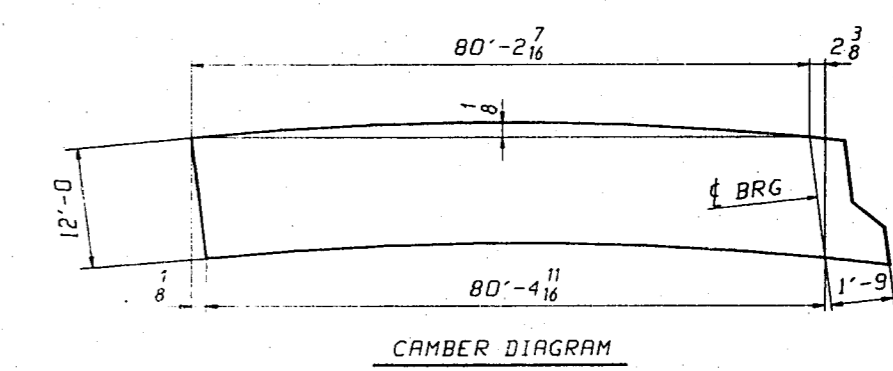
BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	GIRDER			1 A17		78567
2	GIRDER			1 B17		78567
3	PL	144 x 2	49'-11 1/2"	2 u1	A270-50 T2	CWB-1 2/3
4	PL	144 x 2	50'-1 1/2"	2 u2	A270-50 T2	CWB-1 2/4
5	PL	26 x 2	70'-0"	2 u3	A270-50 T2	2/2
6	PL	24 x 2	30'-1 1/2"	2 u4	A270-50 T2	2/2
7	PL	26 x 3	25'-0"	2 u5	A270-50 T2	2/10
8	PL	28 x 3	45'-0"	2 u6	A270-50 T2	2/2
9	PL	26 x 3	30'-0 1/4"	2 u7	A270-50 T2	2/2
10						
11						
12	PL	136 1/2 x 3/8	1'-10 1/2"	4 a1	A270-50 T2	4/28
13	PL	24 x 3/8	5'-2 1/2"	2 a2	A270-50 T2	4/28
14	PL	11 x 1 1/4	5'-2 1/2"	4 a3	A270-50 T2	4/28
15	PL	26 x 1 1/2	8'-2 1/2"	2 a4	A270-50 T2	4/28
16	PL	12 x 1 1/2	8'-2 1/2"	4 a5	A270-50 T2	4/28
17						
18	PL	7 x 5/8	12'-0"	8 b4	A270-50	2/11
19	PL	7 x 5/8	9'-6 1/2"	8 b5	A270-50	2/11
20	PL	7 x 5/8	2'-5"	8 b7	A270-50	2/11
21	PL	7 x 5/8	12'-0"	8 c1	A270-50	2/11
22	PL	7 x 5/8	97'-1 1/2"	2 d2	A270-50 T2	2/12
23						
24	STUD	7/8 #	5	306 e8	A108	2/10
25						
26						
27						
28						
29						
30						

NOTE:
"NP" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET GNI.

GIRDERS - A17 & B17			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
D.W.	E.P.		
04/10/98	04/25/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.T. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DOKBD 00101 001			
Shop Part SEE GNI			
Edge Distance AS NOTED Notes 12" @ (LUN)			
Contr. No	672	Sht	17 of



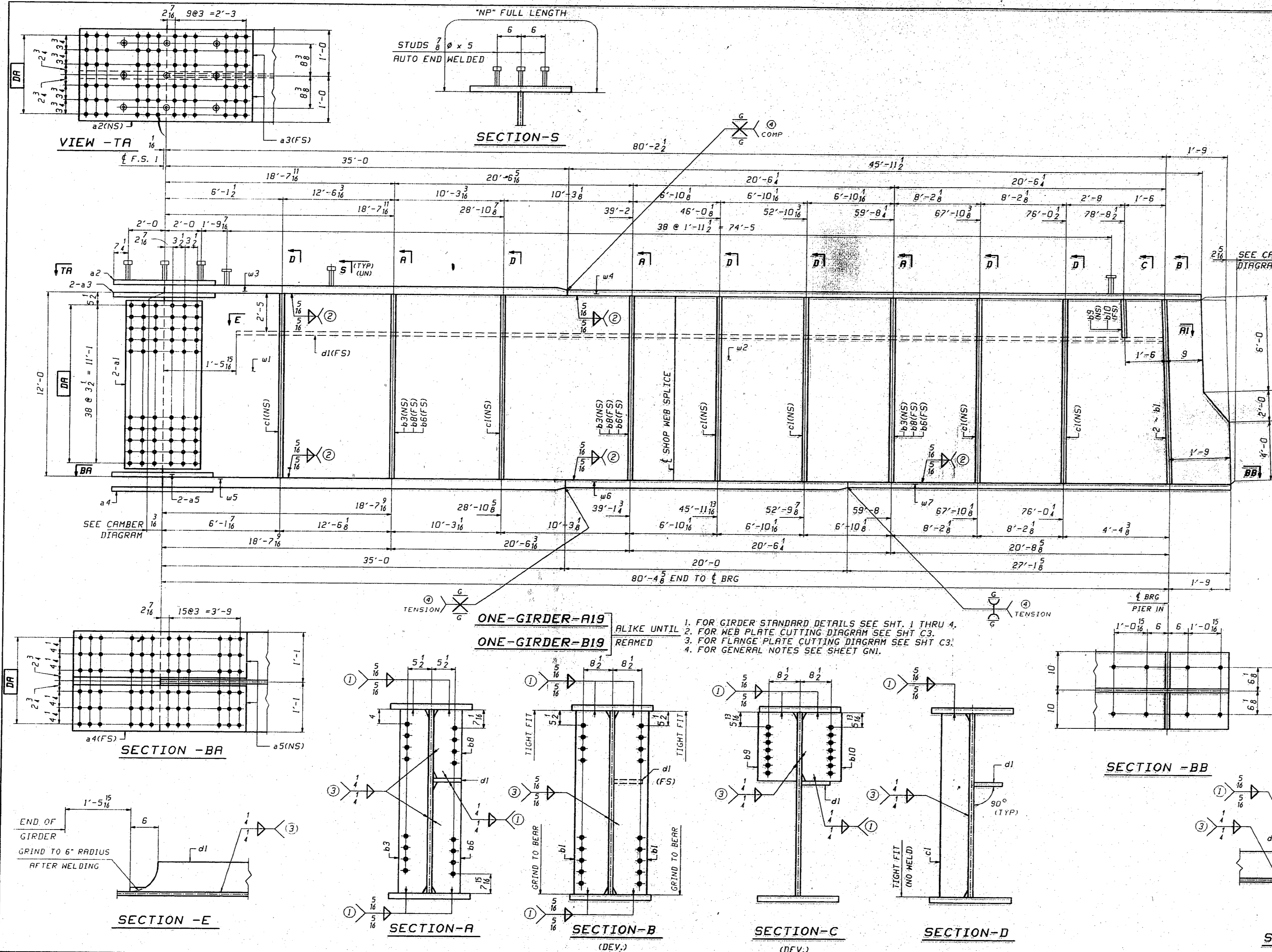
BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	GIRDER			1	AR18		50222
2	GIRDER			1	AR18		50222
3							
4	PL	144 x 2	40'-4 1/2	2	v1	A770-50 T2	CAMB-1 1/4
5	PL	144 x 2	41'-8 1/2	2	v2	A770-50 T2	1/2
6	PL	24 x 2	35'-0	2	v3	A770-50 T2	1/2
7	PL	20 x 1	45'-11 1/2	2	v4	A770-50 T2	1/2
8	PL	26 x 3	35'-0	2	v5	A770-50 T2	1/2
9	PL	20 x 2	20'-0	2	v6	A770-50 T2	1/2
10	PL	20 x 1	27'-1 1/2	2	v7	A770-50 T2	1/2
11							
12	PL	136 1/2 x 3/8	1'-10 1/2	4	a1	A770-50 T2	4/28
13	PL	24 x 2	5'-2 1/2	2	a2	A770-50 T2	4/22
14	PL	11 x 1 1/4	5'-2 1/2	4	a3	A770-50 T2	4/22
15	PL	26 x 1 1/2	8'-2 1/2	2	a4	A770-50 T2	4/28
16	PL	12 x 1 1/2	8'-2 1/2	4	a5	A770-50 T2	4/24
17							
18	PL	7 x 3/8	12'-0	6	b3	A770-50	3/10
19	PL	10 x 1 1/2	12'-0	2	b1	A770-50	1/12
20	PL	10 x 1 1/2	12'-0	2	b2	A770-50	1/12
21	PL	7 x 3/8	12'-0	12	c1	A770-50	3/10
22	PL	10 x 1 1/2	2'-5	2	b9	A770-50	1/14
23	PL	7 x 3/8	78'-8 1/2	2	d1	A770-50 T2	1/15
24							
25	STUD	7/8"		5	252 e8	A108	5/10
26							
27							
28							
29							
30							



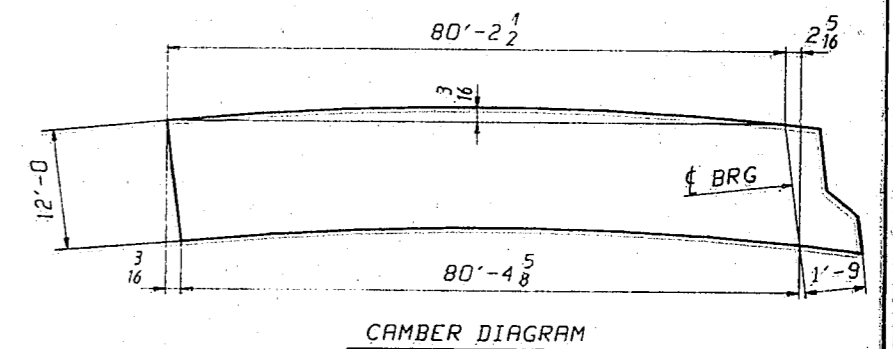
NOTE:
"NP" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PRINT THICKNESS AS DEFINED ON SHEET GNI.

GIRDERS - A18 & RA18			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
04-10-98	04-27-98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
BARRETT COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 0001 001			
Shop Plans SEE GNI			
Edge Distance AS NOTED		Holes 1/2" x 1/2" (LUN)	
Contr. No.	672	Sh.	18 of

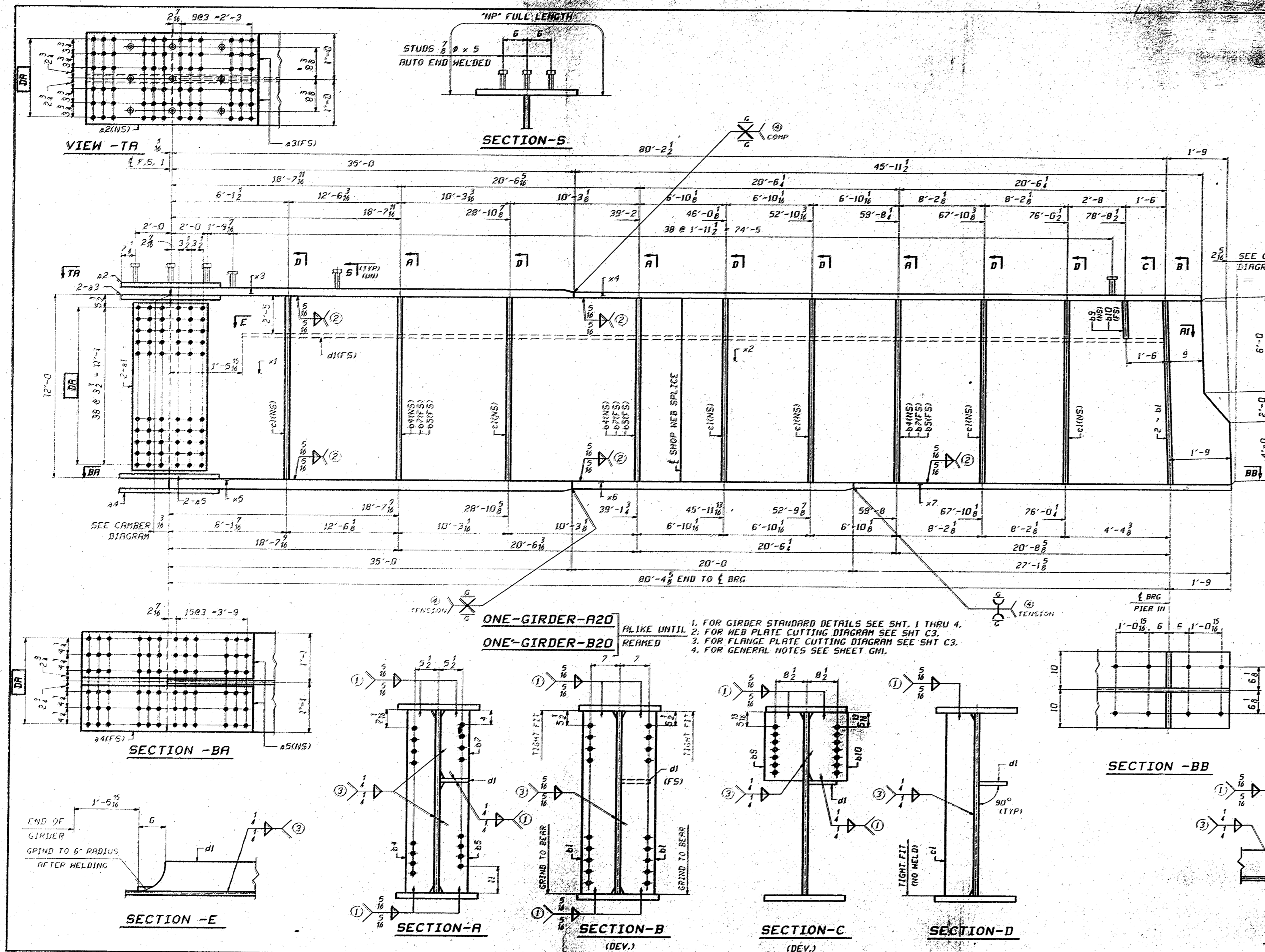
Not a fold in Plan



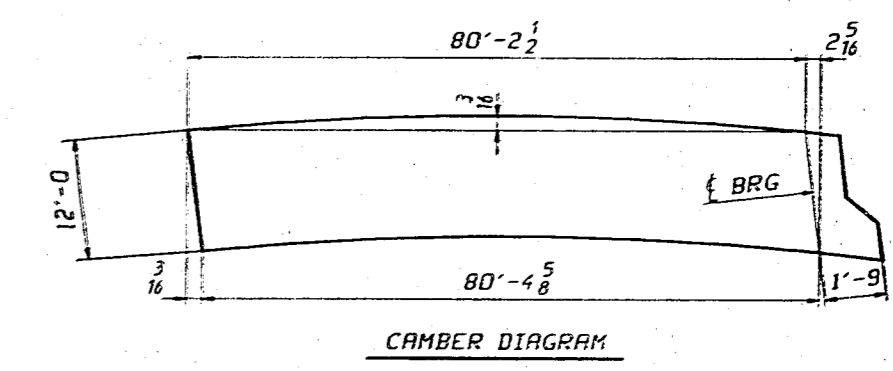
BILL OF MATERIAL									
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE			
1		GIRDER		1	A19				
2		GIRDER		1	B19				
3									
4	PL	144 x 1/2	40'-4 1/2"	2	w1	A270-50 12	COMP-1		1/14
5	PL	144 x 1/2	41'-8 1/2"	2	w2	A270-50 12			1/12
6	PL	24 x 2	35'-0"	2	w3	A270-50 12			1/12
7	PL	20 x 1	45'-11 1/2"	2	w4	A270-50 12			1/13
8	PL	26 x 3	35'-0"	2	w5	A270-50 12			1/11
9	PL	20 x 2	20'-0"	2	w6	A270-50 12			1/13
10	PL	20 x 1	27'-1 1/2"	2	w7	A270-50 12			1/13
11									
12	PL	136 1/2 x 3/8	1'-10 1/2"	4	a1	A270-50 12			A/18
13	PL	24 x 3/8	5'-2 1/2"	2	a2	A270-50 12			A/18
14	PL	11 x 1 1/8	5'-2 1/2"	4	a3	A270-50 12			A/18
15	PL	26 x 1 1/8	8'-2 1/2"	2	a4	A270-50 12			A/18
16	PL	12 x 1 1/8	8'-2 1/2"	4	a5	A270-50 12			A/18
17									
18	PL	7 x 3/8	12'-0"	6	b3	A270-50			3/10
19	PL	7 x 3/8	9'-6 3/8"	6	b6	A270-50			3/10
20	PL	7 x 3/8	2'-5"	6	b8	A270-50			3/10
21	PL	10 x 1 1/4	12'-0"	4	b1	A270-50			1/12
22	PL	7 x 3/8	12'-0"	12	c1	A270-50			3/10
23	PL	10 x 1/2	2'-5"	2	b9	A270-50			1/14
24	PL	10 x 1/2	2'-5"	2	b10	A270-50			1/14
25	PL	7 x 3/8	78'-8 3/8"	2	d1	A270-50 12			1/13
26									
27	STUD	7/8"	5	252	e8	A108			3/10
28									
29									
30									



GIRDERS - A19 & B19			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
04/10/98	04/27/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 000101 001			
Shop Point	SEE GNI		
Edge Distance AS NOTED	Holes: 1/8" x 5/16" (UN)		
Contr. No. 672	Sh. 19 of 35		



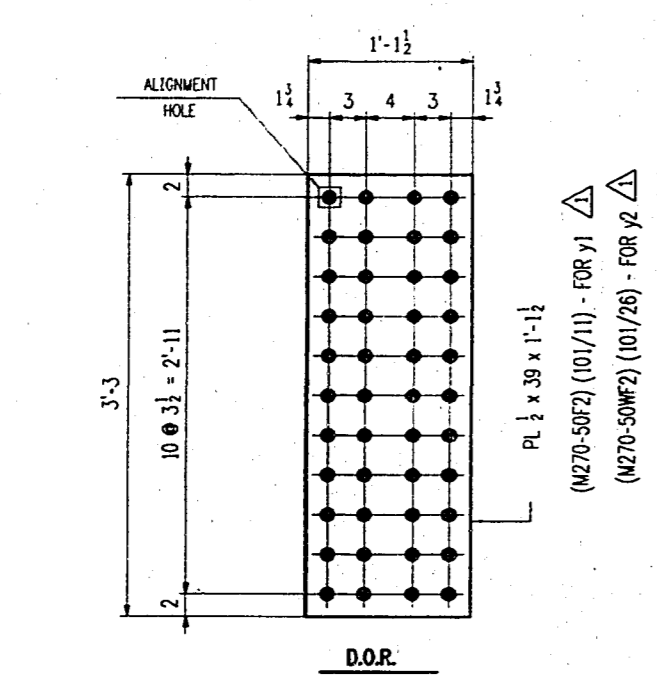
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	GIRDER			1	A20		50796
2	GIRDER			1	B20		50796
3							
4	PL	144 x 1/2	40'-4 1/2	2	x1	A20-50 T2	CWB-1 1/4
5	PL	144 x 1/2	41'-8 1/2	2	x2	A20-50 T2	1/2
6	PL	24 x 2	35'-0	2	x3	A20-50 T2	1/2
7	PL	20 x 1	45'-11 1/2	2	x4	A20-50 T2	1/2
8	PL	26 x 3	35'-0	2	x5	A20-50 T2	1/2
9	PL	20 x 2	20'-0	2	x6	A20-50 T2	1/2
10	PL	20 x 1	27'-1 1/2	2	x7	A20-50 T2	1/2
11							
12	PL	136 1/2 x 1/2	1'-10 1/2	4	x1	A20-50 T2	4/28
13	PL	24 x 1/2	5'-2 1/2	2	x2	A20-50 T2	4/22
14	PL	11 x 1/4	5'-2 1/2	4	x3	A20-50 T2	4/22
15	PL	26 x 1 1/2	8'-2 1/2	2	x4	A20-50 T2	4/25
16	PL	12 x 1 1/2	8'-2 1/2	4	x5	A20-50 T2	4/25
17							
18	PL	7 x 5/8	12'-0	6	b4	A20-50	3/10
19	PL	7 x 5/8	9'-6 1/2	6	b5	A20-50	3/10
20	PL	7 x 5/8	2'-5	6	b7	A20-50	3/10
21	PL	10 x 1 1/2	12'-0	4	b1	A20-50	1/12
22	PL	7 x 5/8	12'-0	12	c1	A20-50	1/13
23	PL	10 x 1 1/2	2'-5	2	b9	A20-50	1/14
24	PL	10 x 1 1/2	2'-5	2	b10	A20-50	1/14
25	PL	7 x 5/8	78'-8 1/2	2	b1	A20-50 T2	1/15
26							
27	STUD	7/8 #	5	252	e8	MIN	5/10
28							
29							
30							



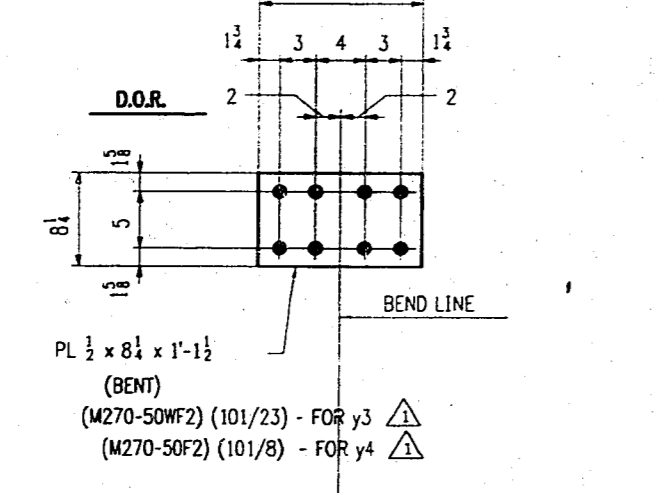
NOTE:
 "NP" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET GHI.

GIRDERS - A20 & B20			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
04/11/98	04/27/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIESS COUNTY, KY - SPENCER COUNTY, IND			
PROJ. 00KBB 00001 001			
Shop Part SEE GHI			
Edge Distance AS NOTED			
Holes: 1/8" # (UN)			
Contr. No. 672	Sh. 20 of		

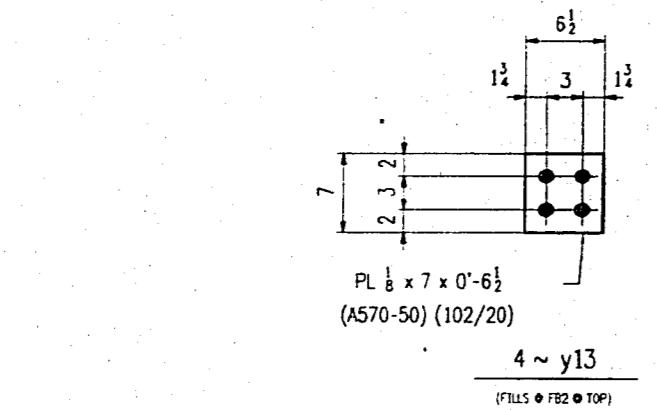
TENSOR 1819



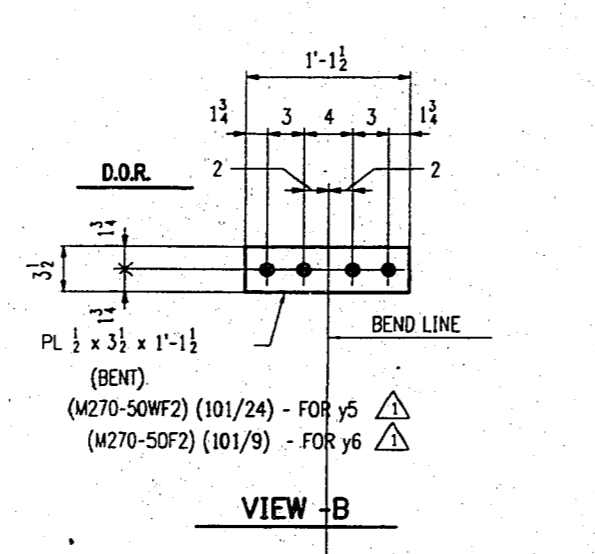
6 ~ y1
 (WEB SPL. PL. - FIB. & FIB. TOP & EDGE GIRDER)
 2 ~ y2
 (WEB SPL. PL. - FIB. & EDGE GIRDER)



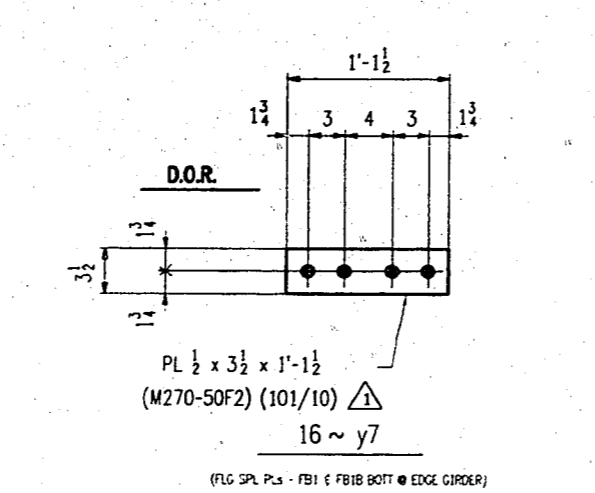
2 ~ y3
 (PL. SPL. PL. - FIB. TOP & EDGE GIRDER)
 2 ~ y4
 (PL. SPL. PL. - FIB. TOP & EDGE GIRDER)



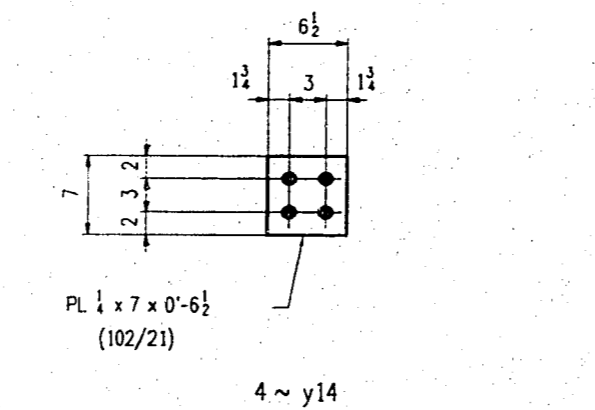
4 ~ y13
 (FILL & FIB. TOP)



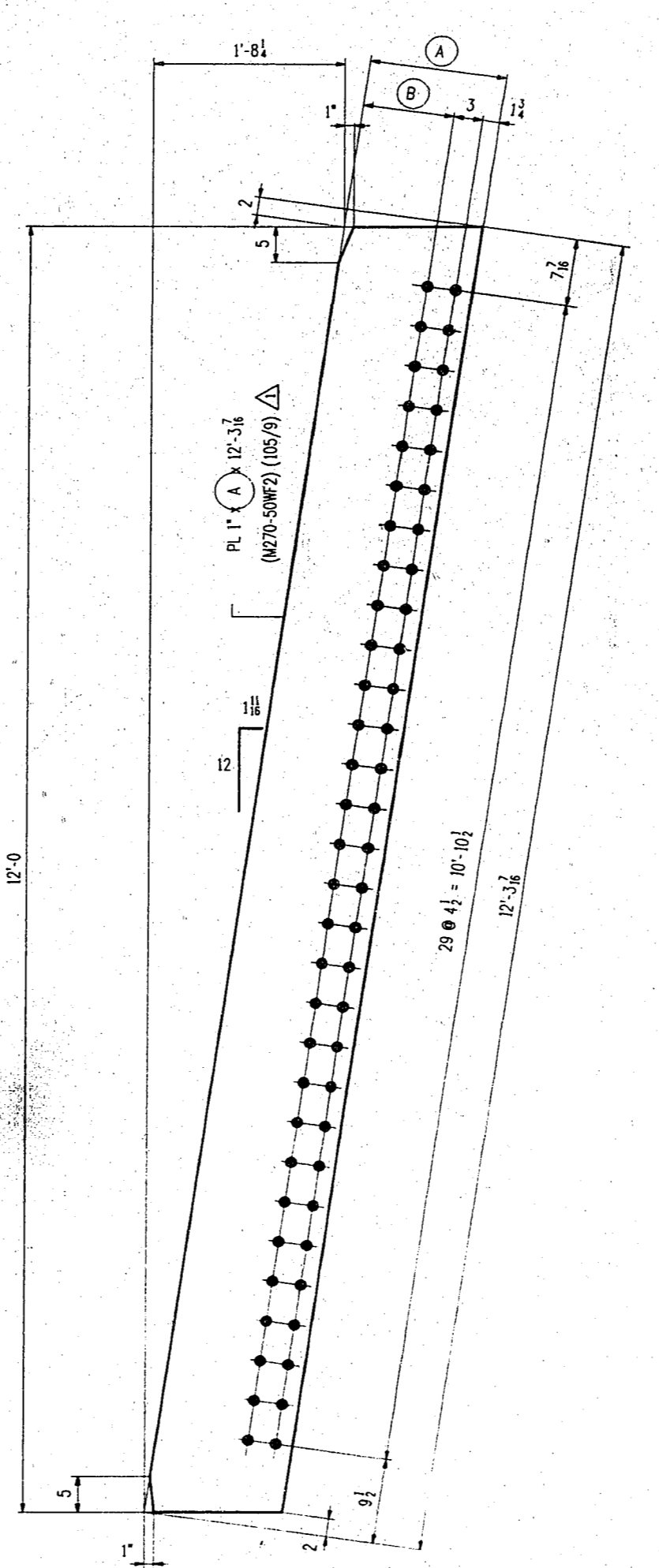
2 ~ y5
 (PL. SPL. PL. - FIB. TOP & EDGE GIRDER)
 6 ~ y6
 (PL. SPL. PL. - FIB. TOP & EDGE GIRDER)



16 ~ y7
 (PL. SPL. PL. - FIB. & FIB. BOT. & EDGE GIRDER)

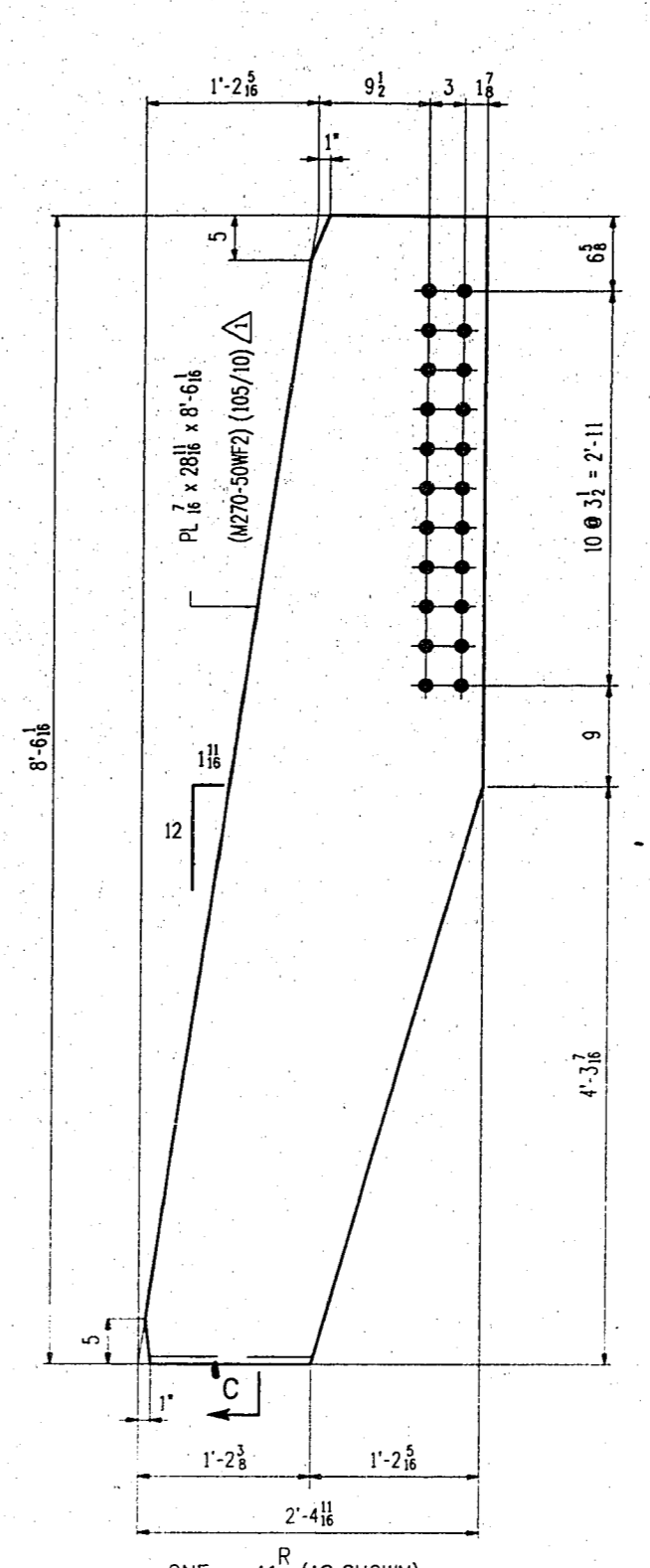


4 ~ y14
 (FILL & FIB. BOT. & EDGE GIRDER)

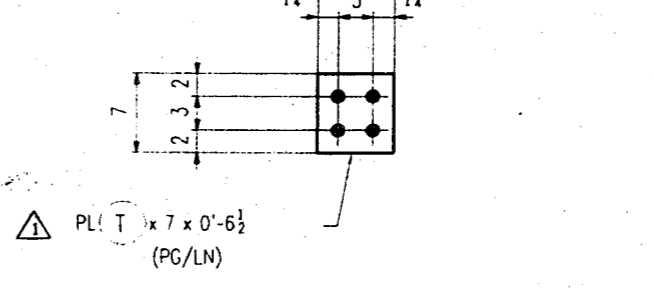


STIFFENERS
 (FILL & FIB. & EDGE GIRDER)

MARK	NO. REQD	A	B
y9	2	1'-2 1/2"	9 1/2"
y10	4	1'-2 1/2"	9 1/2"

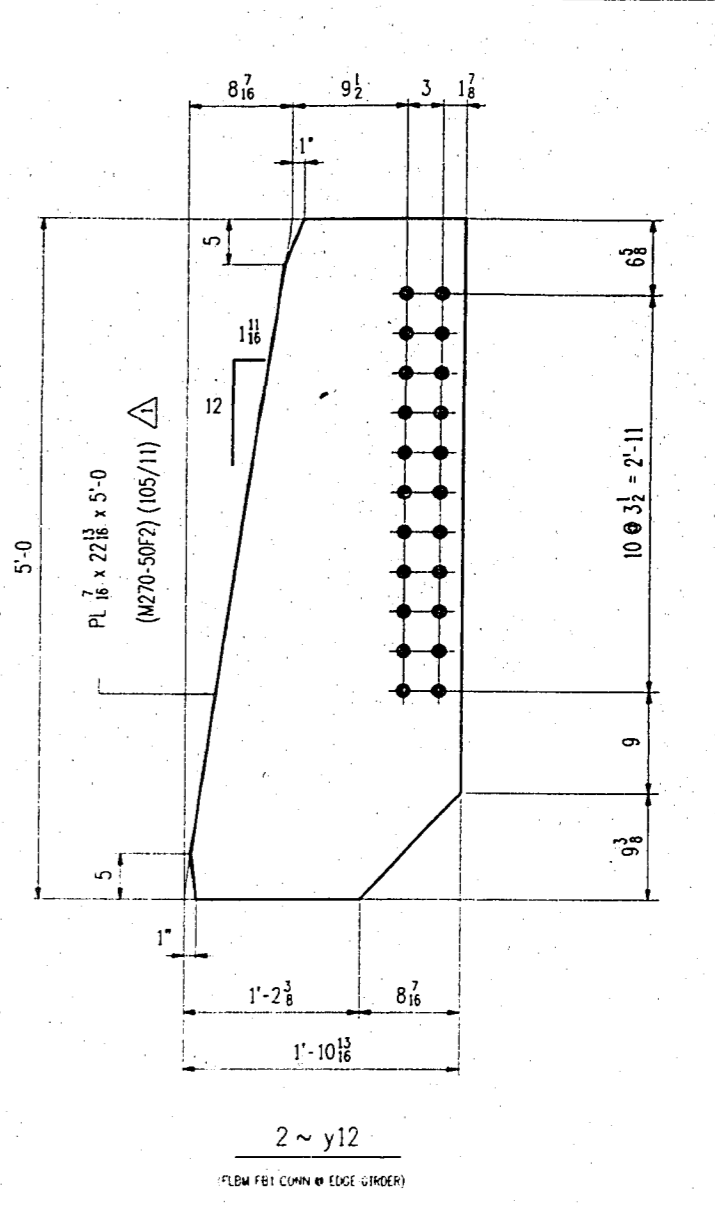


ONE ~ y11^R (AS SHOWN)
 ONE ~ y11^L (OPP HAND)
 (FILL FIB. DOWN & EDGE GIRDER)



FILL PLATES
 (FILL & FIB. & EDGE GIRDER)

MARK	REQD	T	PG/LN
y15	8	1/2"	103/25
y16	8	1/2"	103/26



2 ~ y12
 (FILL FIB. DOWN & EDGE GIRDER)

SECTION - C

- NOTES:
- ALL MATERIAL TO BE M270 GR50 (UN).
 - ALL HOLES TO BE **DA**.
 - MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "F" FREQUENCY.

D.O.R. DENOTES DIRECTION OF MILL ROLLING.

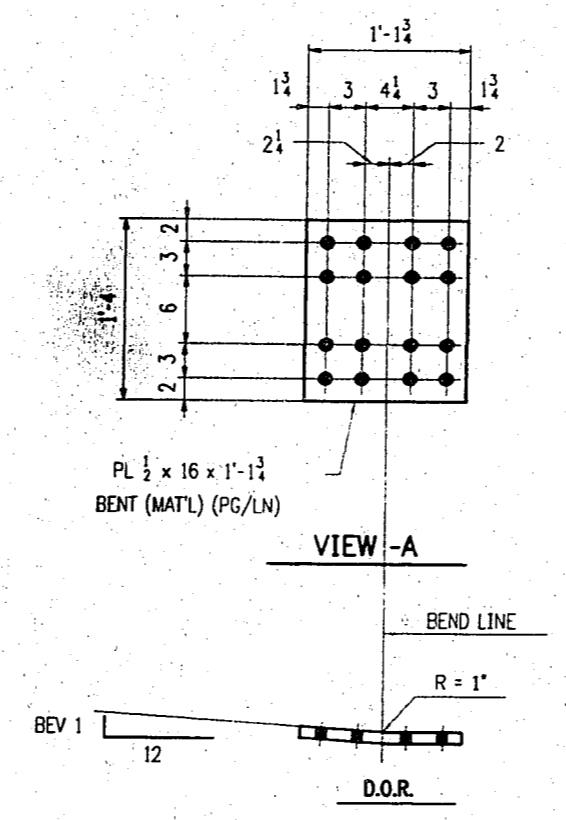
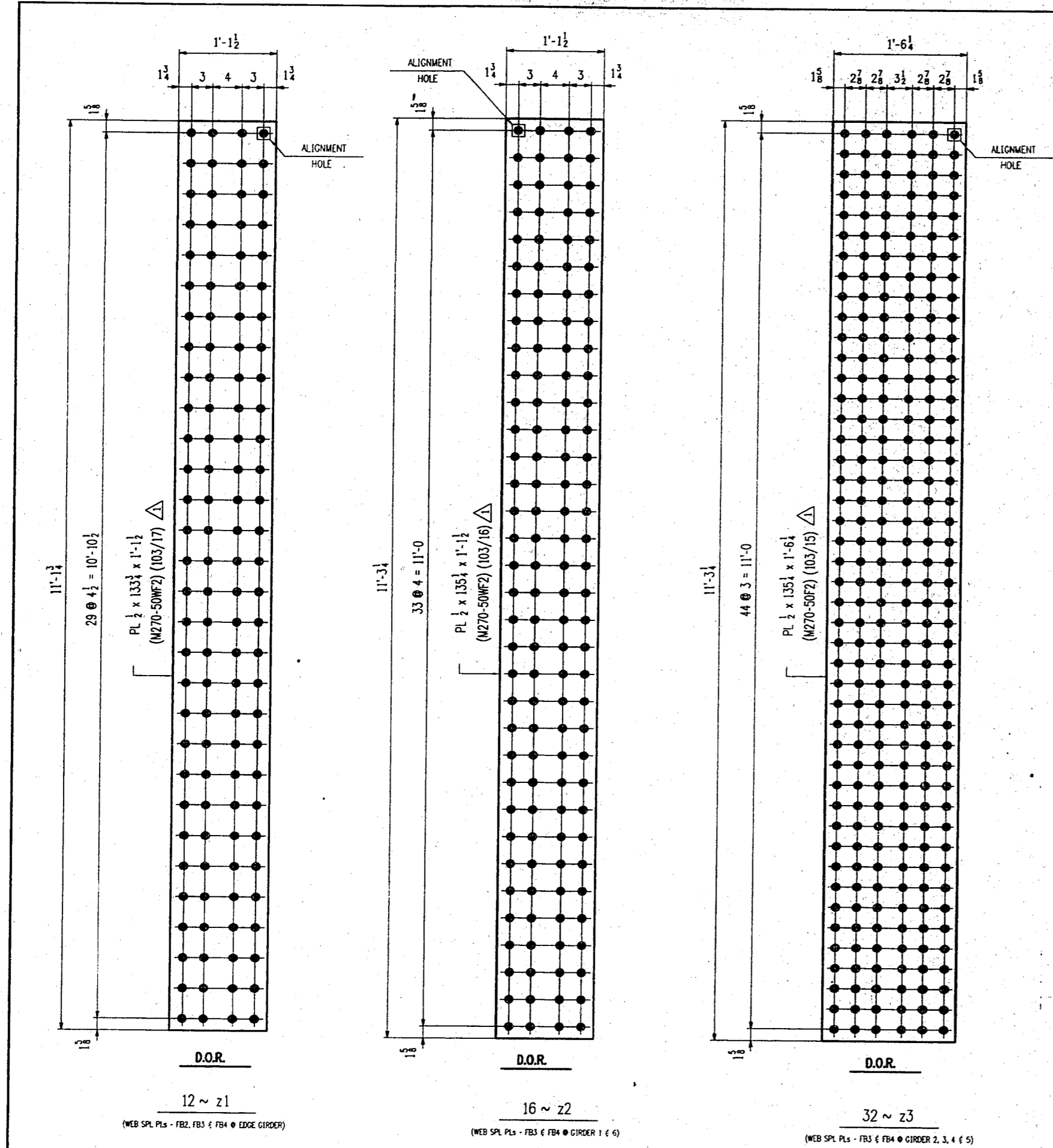
EDGE GIRDER STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DW	EPG		7/13/98
4/29/98	4/28/98		

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.M. / INDIANA D.O.L.
 DANVERS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. DOKB0 00101 001

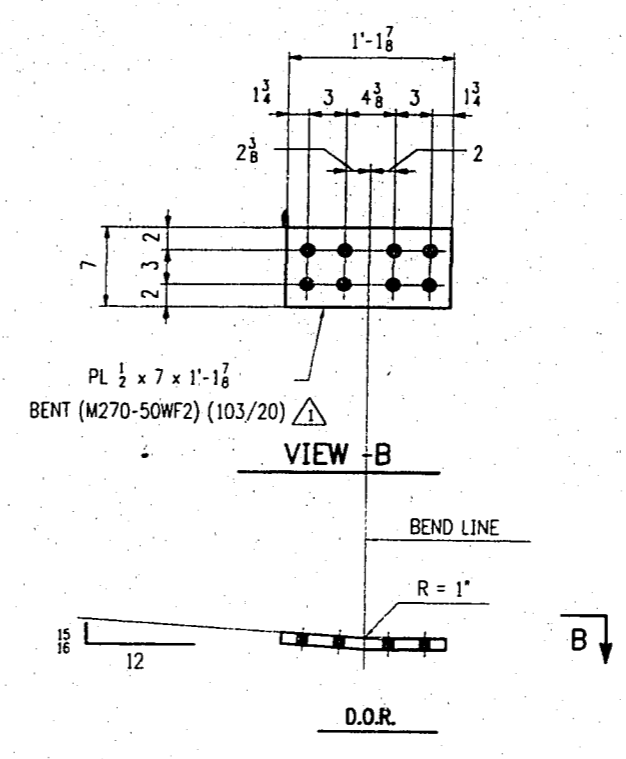
Shop Point SEE G01

Edge Distance AS NOTED Holes: 1/2" - 1/4" (LN)

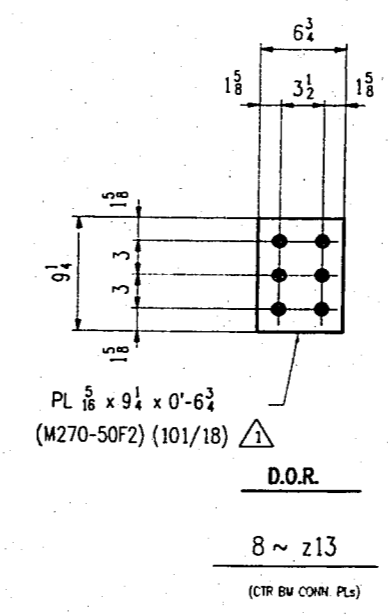
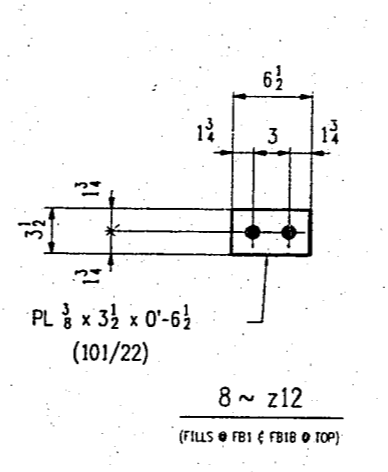
Contr. No. 672 Sh. 21 of



MARK	REQD	BEV 1	MAT'L	PG/LN
24	4	18	M270-50WF2 Δ	103/21
25	4	8	M270-50F2 Δ	103/18
26	2	1	M270-50WF2 Δ	102/10
27	2	1	M270-50F2 Δ	102/12



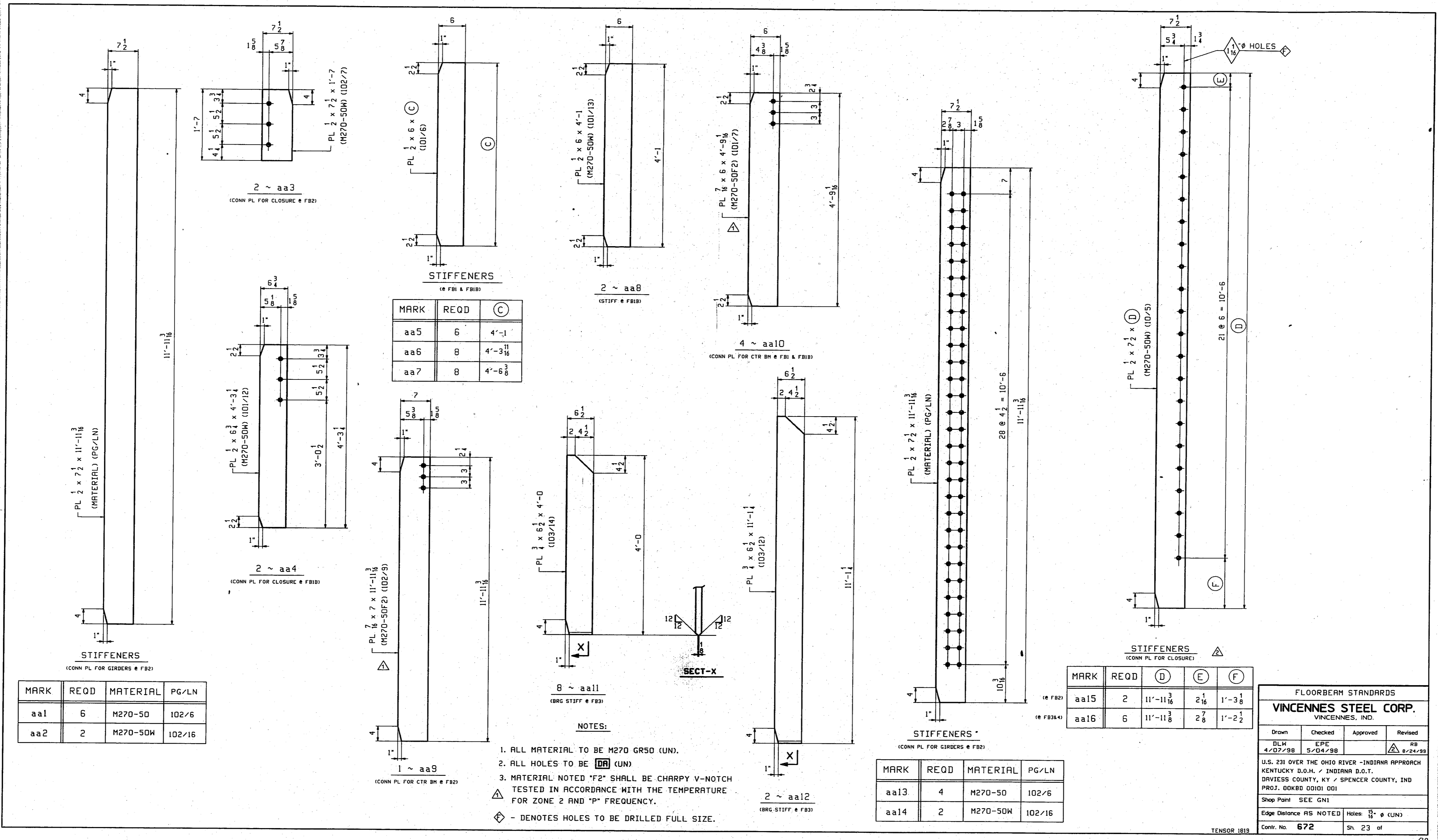
MARK	REQD	BEV 2	MAT'L	PG/LN
29	8	16	M270-50F2 Δ	103/19
210	4	1	M270-50WF2 Δ	102/11
211	4	1	M270-50F2 Δ	102/13



- NOTES:
- ALL MATERIAL TO BE M270 GR50 (LN).
 - ALL HOLES TO BE \square DA.
 - MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.

D.O.R. - DENOTES DIRECTION OF MILL ROLLING.

FLOORBEAM STANDARDS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		Δ
4/07/98	5/04/98		7/13/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
BAYLESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K60 00101 001			
Shop Point	SEE GN1		
Edge Distance	AS NOTED	Holes:	1 1/2" ϕ (LN)
Cont. No.	672	Sh.	22 of



MARK	REQD	MATERIAL	PG/LN
aa1	6	M270-50	102/6
aa2	2	M270-50W	102/16

MARK	REQD	(C)
aa5	6	4'-1
aa6	8	4'-3 11/16
aa7	8	4'-6 1/2

MARK	REQD	(D)	(E)	(F)
aa15	2	11'-11 3/8	2 1/8	1'-3 1/8
aa16	6	11'-11 3/8	2 7/8	1'-2 1/2

MARK	REQD	MATERIAL	PG/LN
aa13	4	M270-50	102/6
aa14	2	M270-50W	102/16

- NOTES:
- ALL MATERIAL TO BE M270 GR50 (UN).
 - ALL HOLES TO BE (UN)
 - MATERIAL NOTED "F2" SHALL BE CHARNY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
- ◇ - DENOTES HOLES TO BE DRILLED FULL SIZE.

FLOORBEAM STANDARDS

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
DLP	EPE		RB
4/07/98	5/04/98		8/24/98

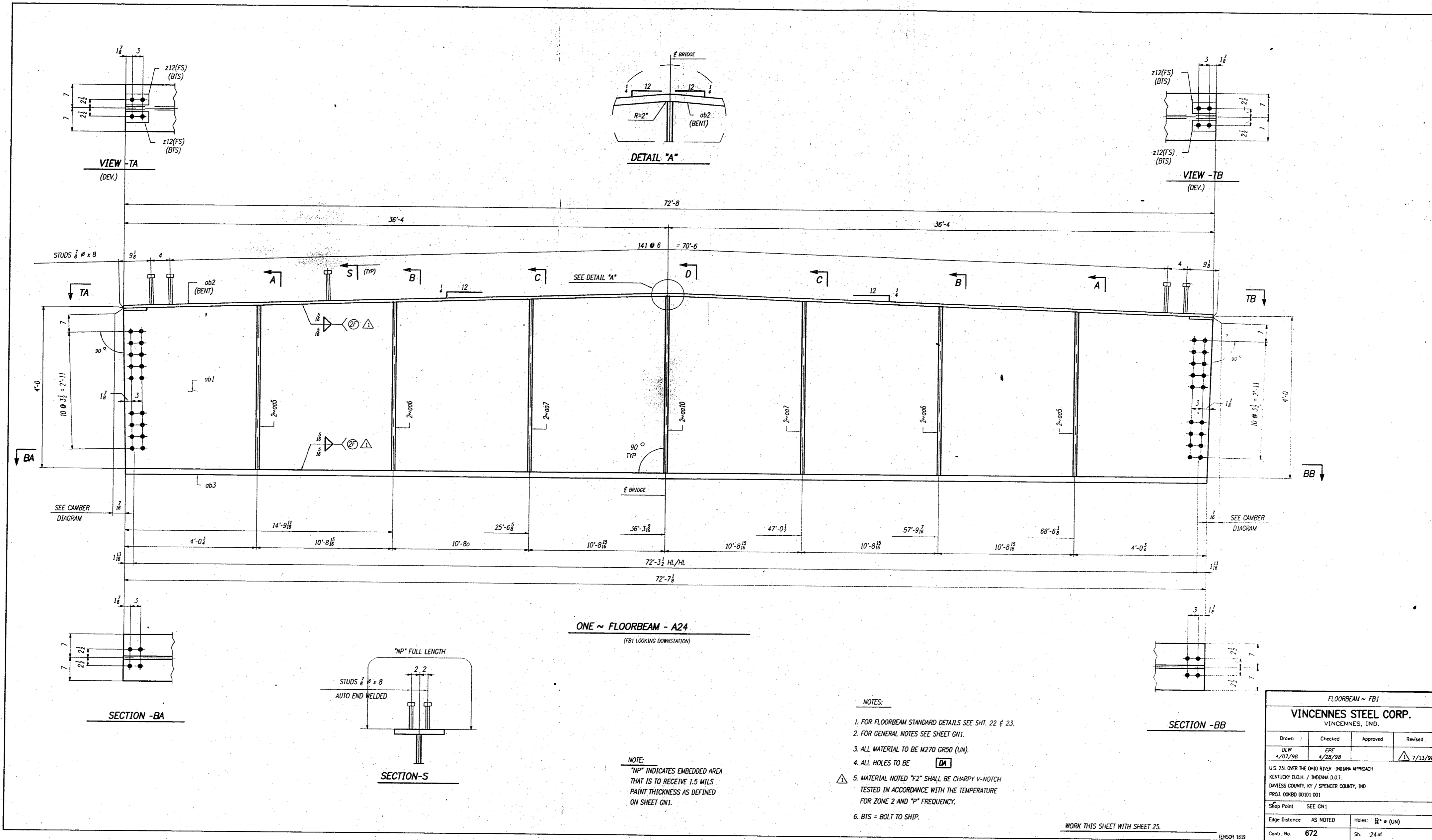
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.M. / INDIANA D.O.T.
DAVIESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 00K80 00101 001

Shop Part SEE GNI

Edge Distance AS NOTED Holes: 15/16" (UN)

Contr. No. **672** Sh. 23 of

TENSOR 1819



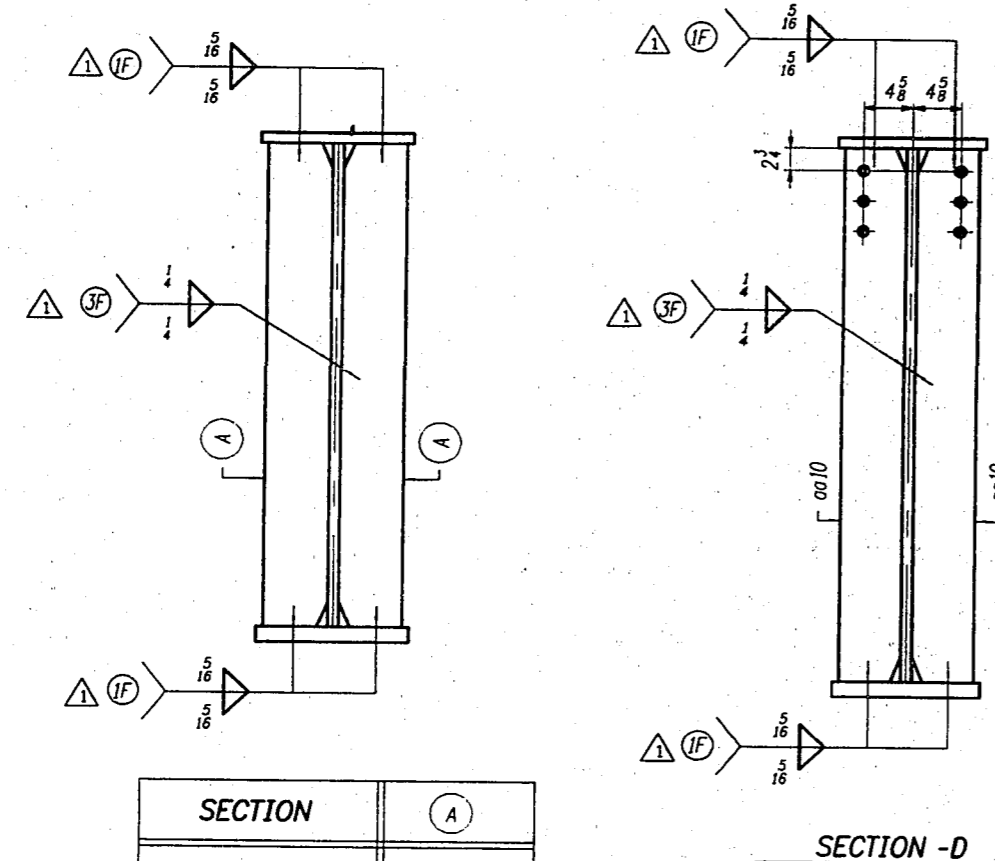
ONE ~ FLOORBEAM - A24
(FBI LOOKING DOWNSTATION)

NOTE:
"WP" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET 0N1.

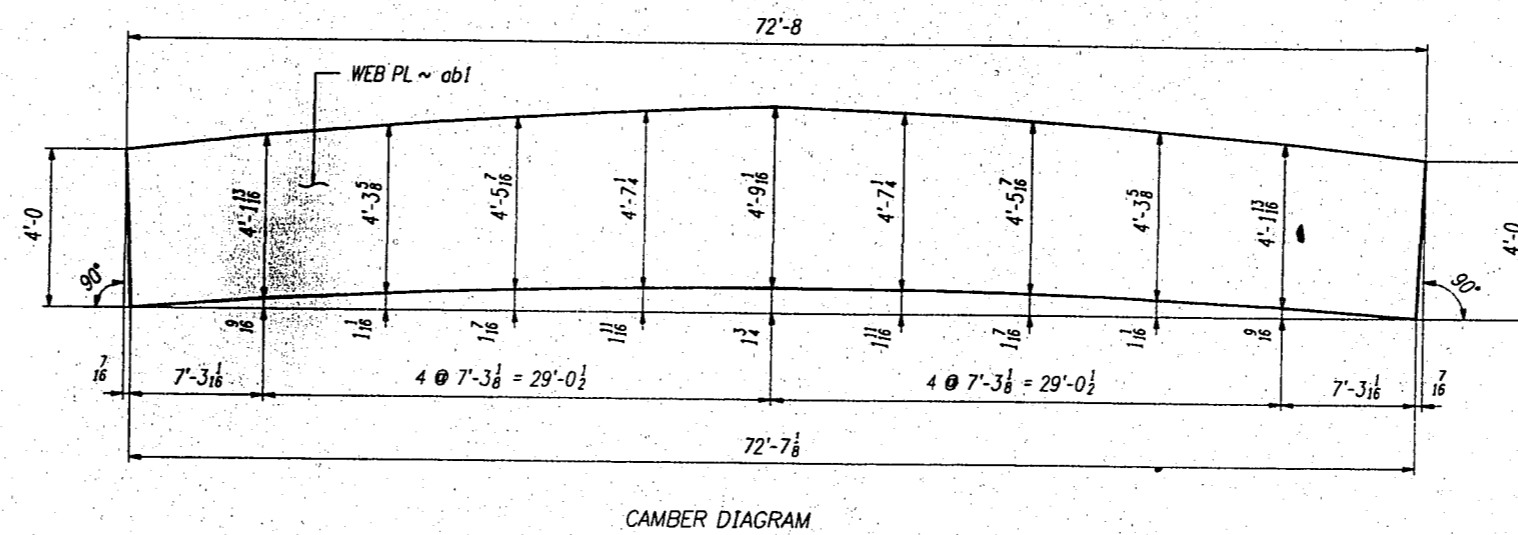
- NOTES:
1. FOR FLOORBEAM STANDARD DETAILS SEE SH1. 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET 0N1.
 3. ALL MATERIAL TO BE A270 GR50 (UN).
 4. ALL HOLES TO BE **DM**.
 5. MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
 6. BITS = BOLT TO SHIP.

WORK THIS SHEET WITH SHEET 25.

FLOORBEAM ~ FBI			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW 4/27/98	ERIC 4/28/98		7/13/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.M. / INDIANA D.O.T. DAVNESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00WB0 00101 001			
Sheet Point	SEE 0N1		
Edge Distance	AS NOTED	Holes:	12" @ (UN)
Cont. No.	672	Sh.	24 of



SECTION	(A)
A	005
B	006
C	007



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		FLOORBEAM		1	A24		150M
2							
3	PL	57 1/2 x 1/2	72'-8	1	ab1	A24	150M
4	PL	14 x 1/2	72'-8 1/2	1	ab2	A24	150M
5	PL	14 x 1/2	72'-7 1/2	1	ab3	A24	150M
6							
7	PL	3 1/2 x 1/2	6 1/2	4	x12	A24	150M
8							
9	PL	6 x 1/2	4'-1	4	005	A24	150M
10	PL	6 x 1/2	4'-3 1/2	4	006	A24	150M
11	PL	6 x 1/2	4'-6 1/2	4	007	A24	150M
12							
13	PL	6 x 1/2	4'-9 1/2	2	0010	A24	150M
14							
15	STUD	1/2"	8	288	ab4	A24	150M
16							
17							
18							
19							
20							

FLOORBEAM ~ FBI

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
D.W.	E.P.		
4/27/98	4/28/98		7/13/98

U.S. 311 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.H. / INDIANA D.O.T.
DAVIESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 00K80 00101 001

Shop Point SEE CN1

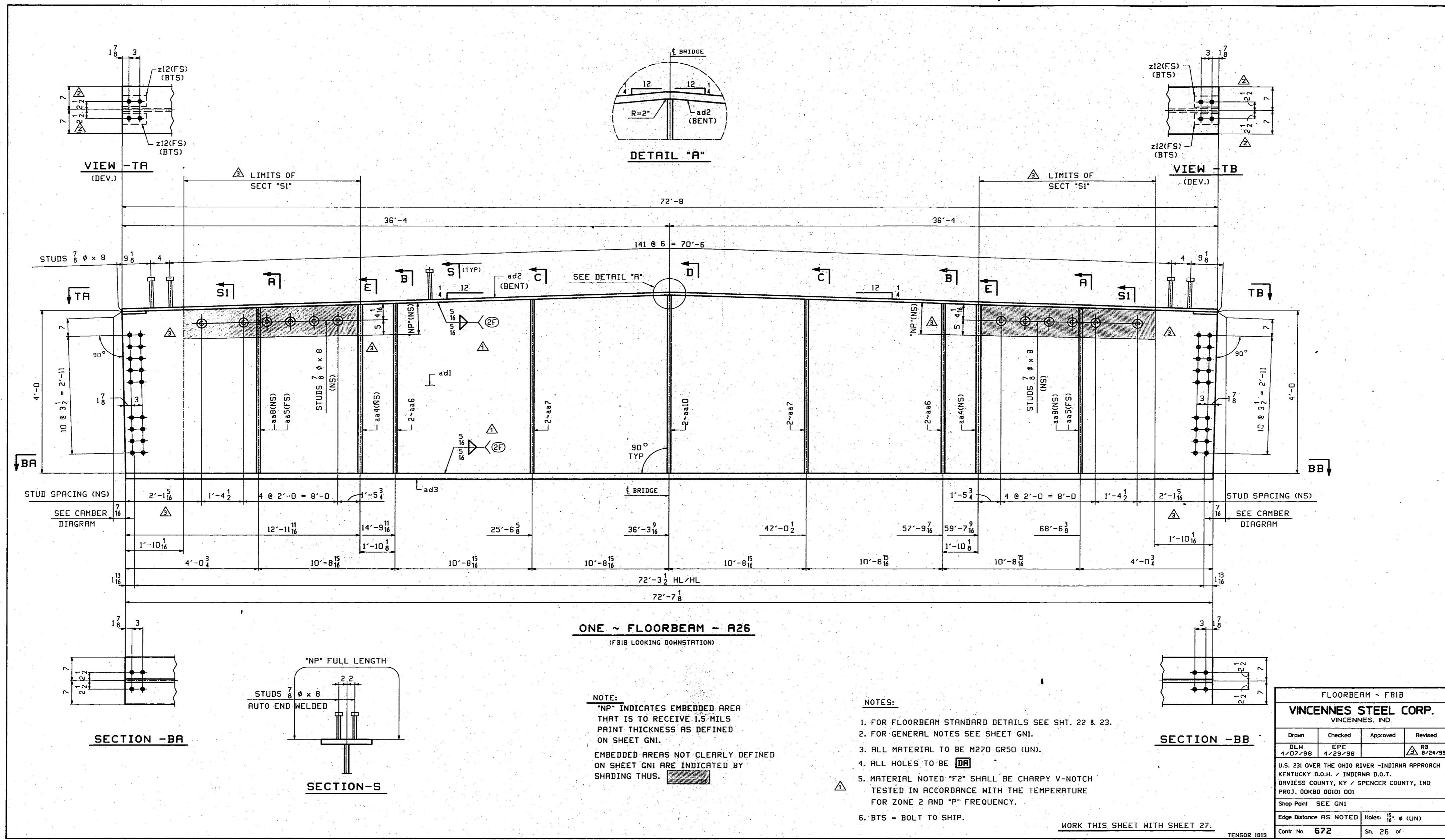
Edge Distance AS NOTED Holes: 2" @ (LN)

Cont. No. **672** Sh. 25 of 41

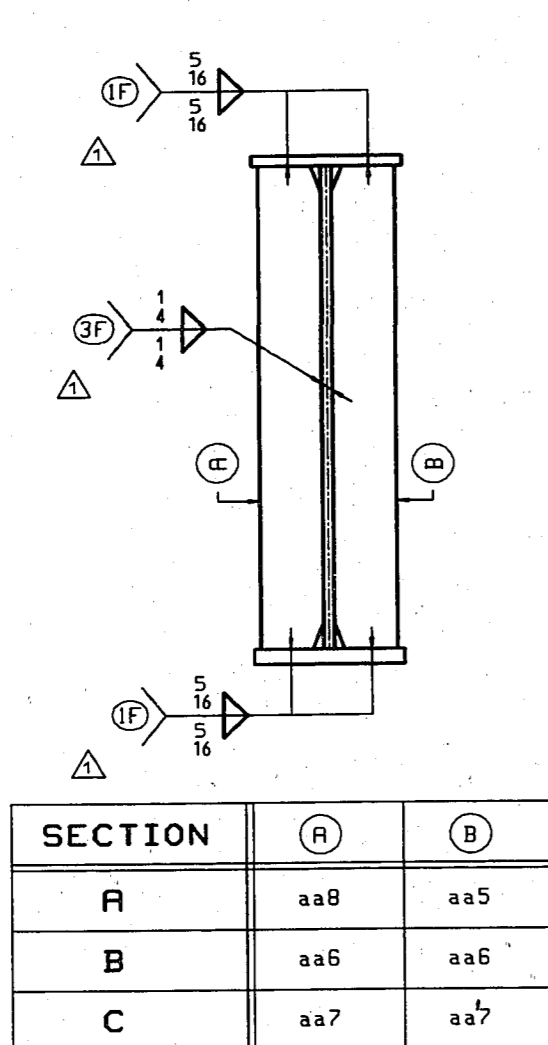
TENSOR 1819

WORK THIS SHEET WITH SHEET 24.

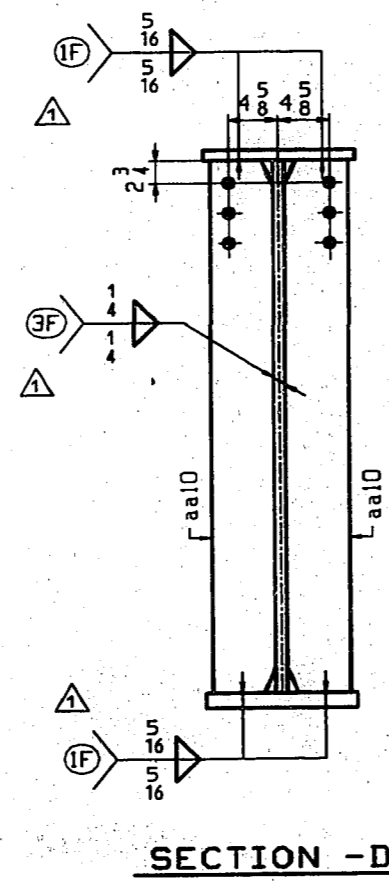
ALL MATERIAL TO BE A24 UNLESS NOTED OTHERWISE.



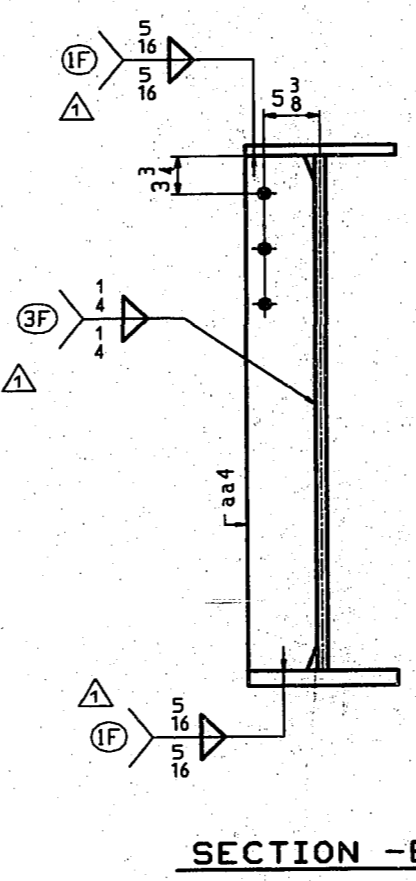
FLOORBEAM - FB18			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLK	EFE		RB
4/07/98	4/28/98		8/24/99
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. ODKBD 0001 D01			
Shop Point SEE GNI			
Edge Distance AS NOTED Holes: $\frac{15}{16}$ " ϕ (UN)			
Contr. No. 672	Sh. 26 of		



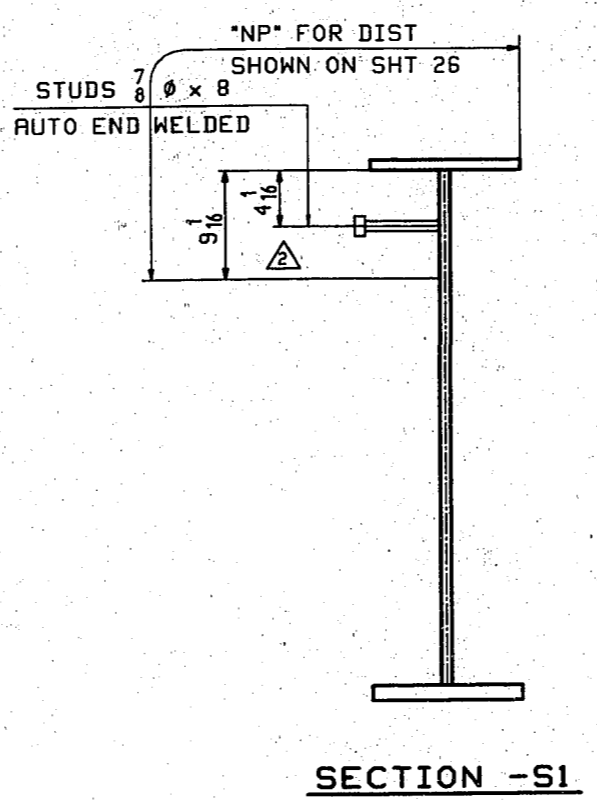
SECTION	(A)	(B)
A	aa8	aa5
B	aa6	aa6
C	aa7	aa7



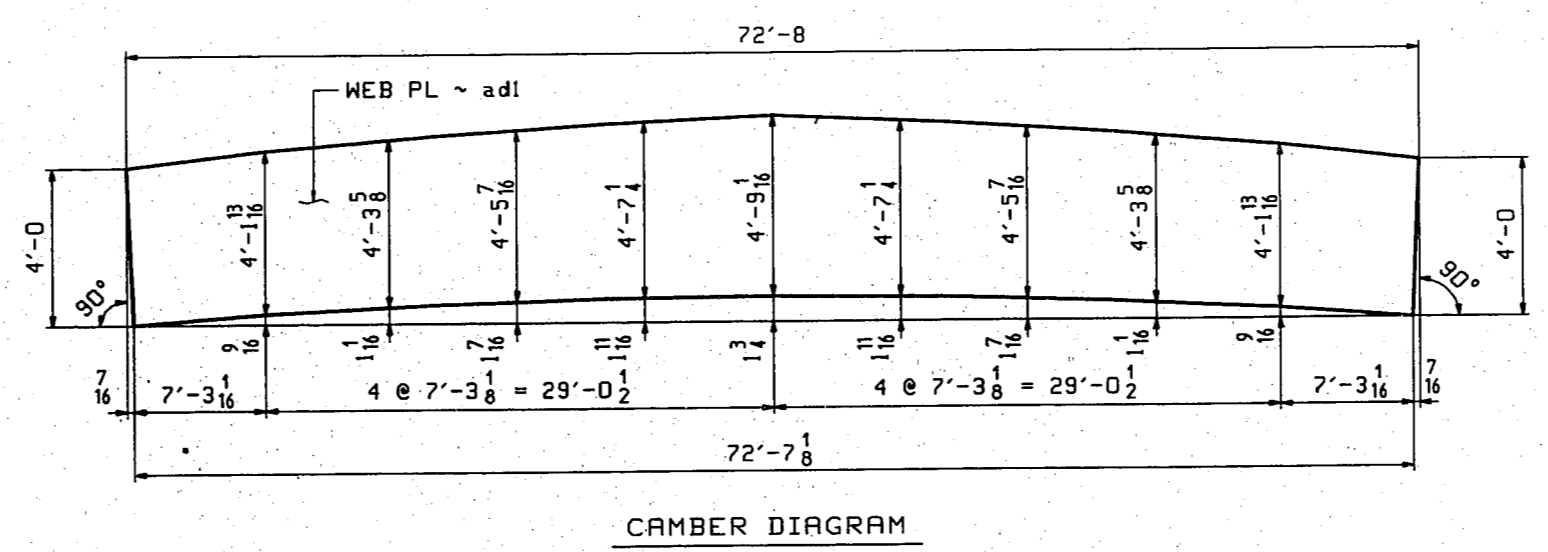
SECTION -D



SECTION -E



SECTION -S1



CAMBER DIAGRAM

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		FLOORBEAM		1	A26		15120
2							
3	PL	57 1/2 x 1/2	72'-8	1	ad1	F2	101/21
4	PL	14 x 1/2	72'-8	1	ad2	F2	101/20
5	PL	14 x 1/2	72'-7 1/8	1	ad3	H270-50 F2	101/4
6							
7	PL	3 1/2 x 8	0	4	z12	H270-50	101/22
8							
9	PL	6 1/2 x 2	4'-3	2	aa4		101/12
10	PL	6 x 2	4'-1	2	aa5	H270-50	101/6
11	PL	6 x 2	4'-3 1/2	4	aa6	H270-50	101/6
12	PL	6 x 2	4'-6 1/2	4	aa7	H270-50	101/6
13	PL	6 x 2	4'-1	2	aa8		101/13
14							
15	PL	6 x 7/8	4'-9 1/2	2	aa10	H270-50 F2	101/7
16							
17	STUD	7/8 x 8	8	258	ab4	A04	5/12
18							
19							
20							

WORK THIS SHEET WITH SHEET 26.

FLOORBEAM - FB1B

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
DLW	EPE		RB
4/07/98	4/29/98		8/24/99

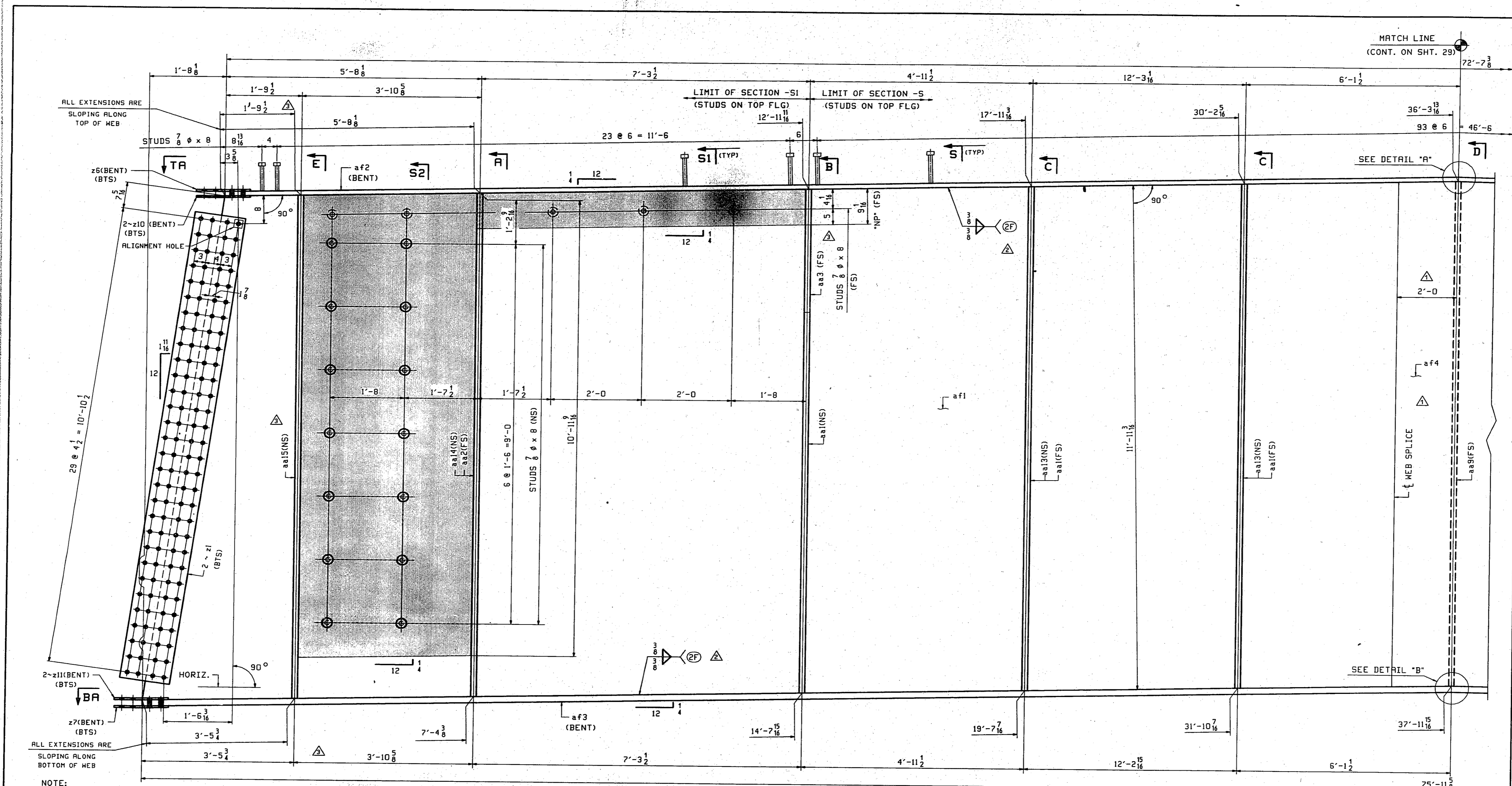
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.H. / INDIANA D.O.T.
DAVIESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 00K8D 00IG1 001

Shop Print SEE GNI

Edge Distance AS NOTED Holes 1/2" x 1/2" (UN)

Contr. No. 672 Sh. 27 of

TENSOR 1819



NOTE:
 "NP" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET GNI.
 EMBEDDED AREAS NOT CLEARLY DEFINED ON SHEET GNI ARE INDICATED BY SHADING THUS.

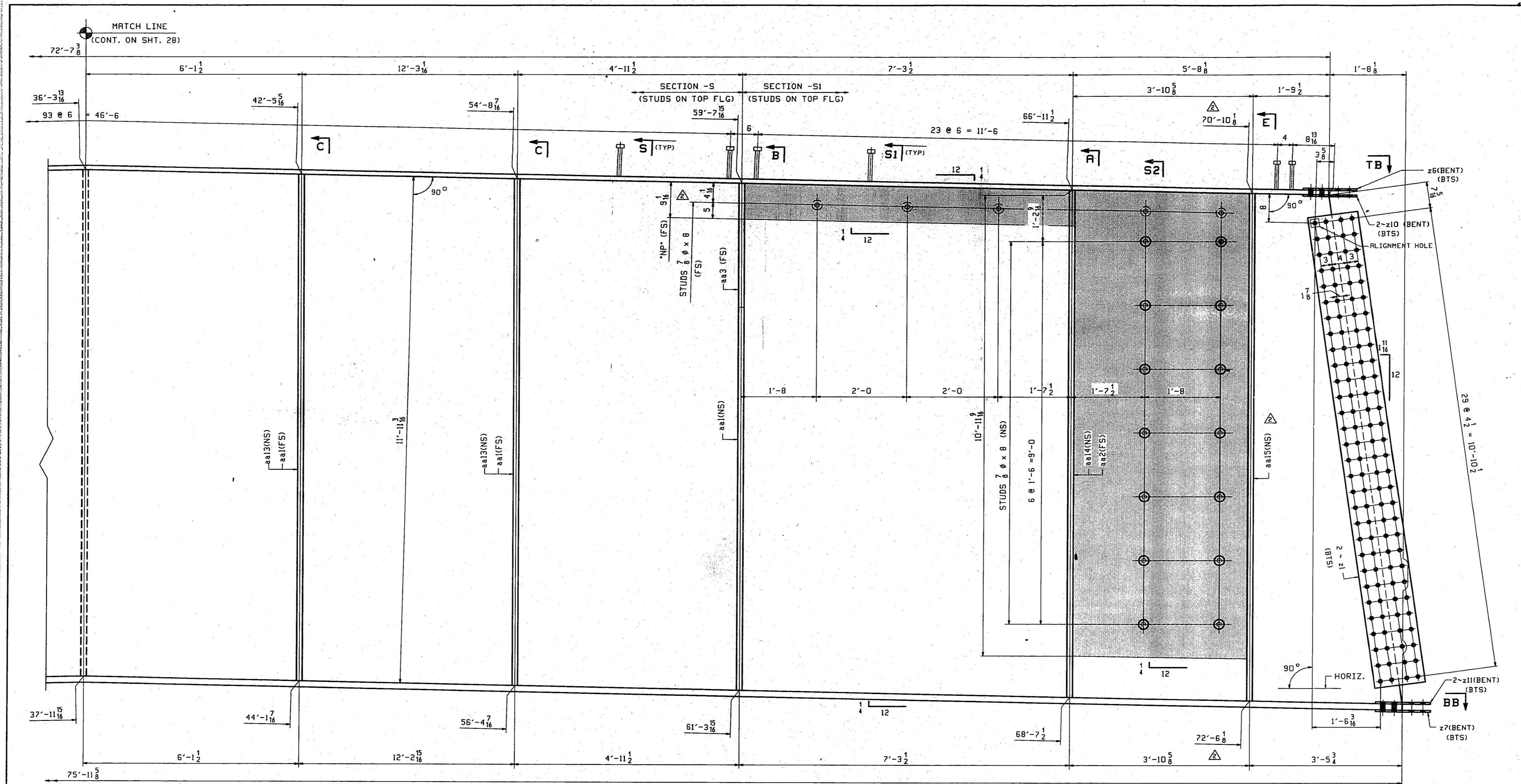
- NOTES:
1. FOR FLOORBEAM STANDARD DETAILS SEE SHT. 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET GNI.
 3. ALL MATERIAL TO BE M270 GR50 (UN).
 4. ALL HOLES TO BE DR (UN)

5. MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR "P" FREQUENCY (SEE GNI).
 6. BTS = BOLT TO SHIP.
- △ ◇ - DENOTES HOLES TO BE DRILLED FULL SIZE.

ONE ~ FLOORBEAM - A28
 (FB2, LOOKING DOWNSTATION)

WORK THIS SHEET WITH SHEET 29 & 30.

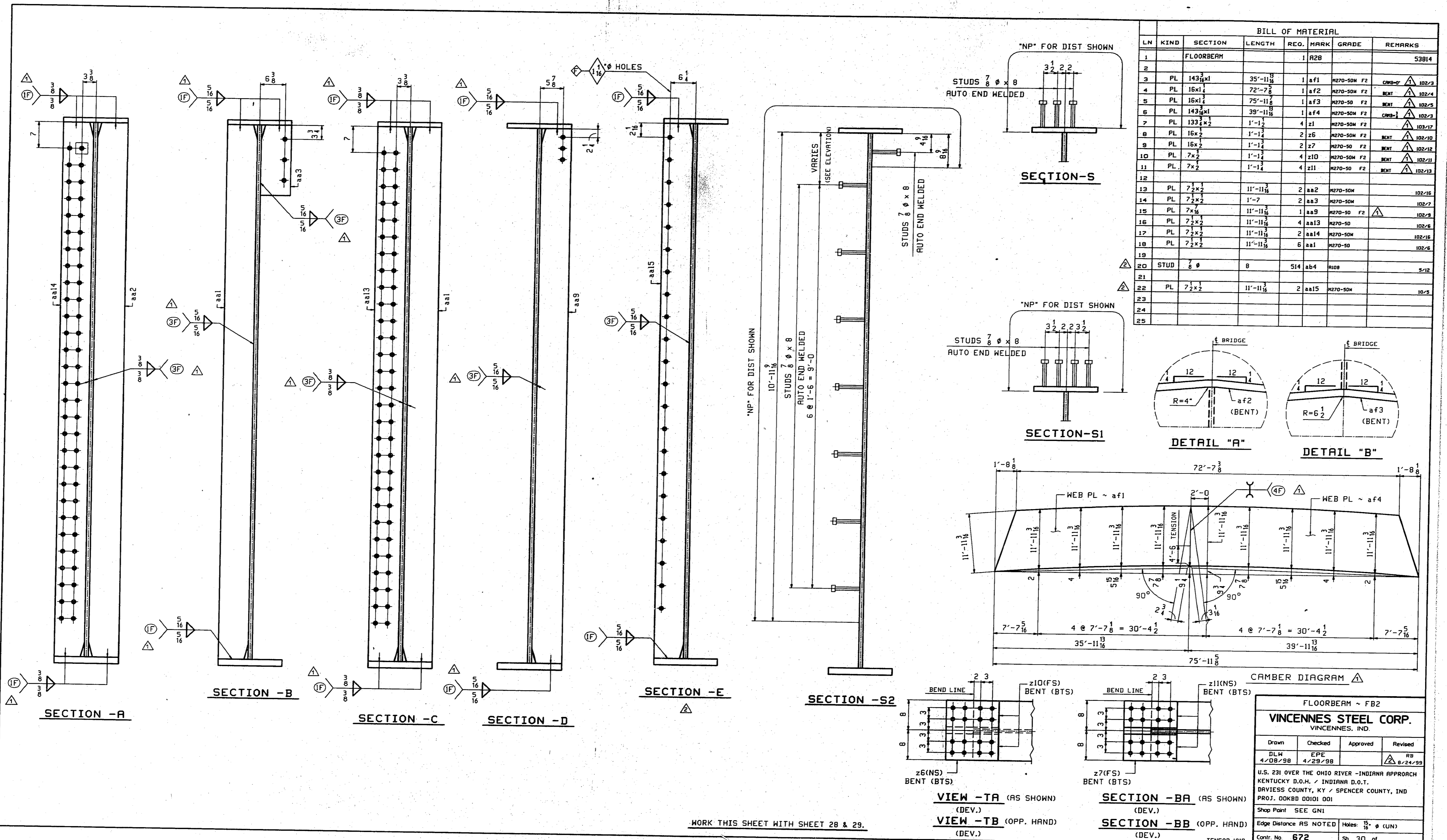
REV. CTMT CONN.		RB	U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH	
FLOORBEAM - FB2			KENTUCKY D.O.M. / INDIANA D.O.T.	
VINCENNES STEEL CORP.			DAVIESS COUNTY, KY / SPENCER COUNTY, IND	
VINCENNES, IND.			PROJ. ODKBD 00101 001	
Drawn		Checked	Approved	Revised
DLW	EPE			
4/28/98	4/29/98			8/24/99
Edge Distance AS NOTED		Holes: 12" ø		Shop Point SEE GNI
Contr. No. 672		Sh. 28 of		



ONE ~ FLOORBEAM - A28 (CONTINUED)
 (FB2 LOOKING DOWNSTATION)

WORK THIS SHEET WITH SHEET 28 & 30.

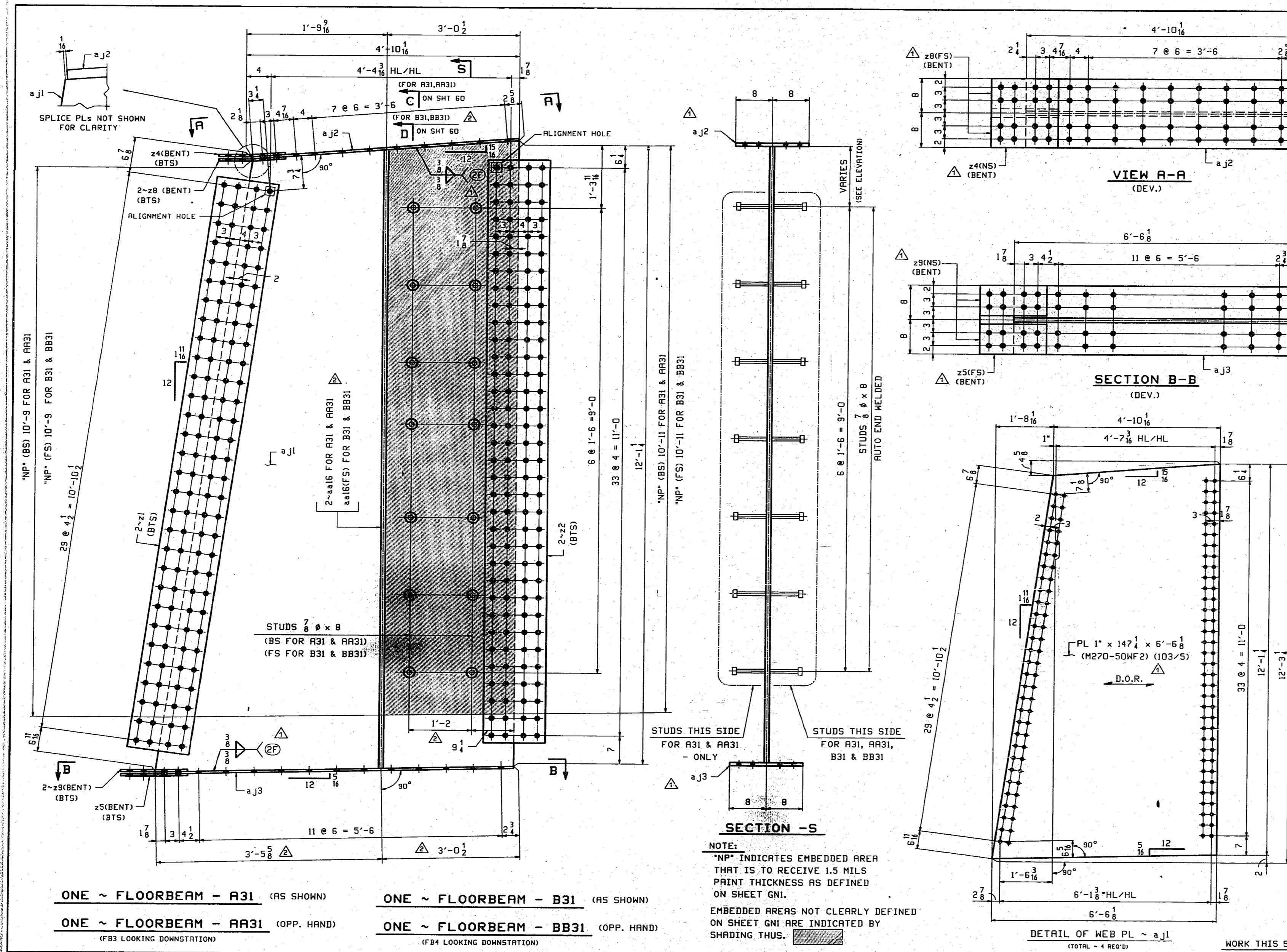
REV. CTMT CONN.		RB	U.S. 231 OVER THE OHIO RIVER - INDIANA APPROXIM	
FLOORBEAM ~ FB2			KENTUCKY D.O.H. / INDIANA D.O.T.	
VINCENNES STEEL CORP.			DAVIESS COUNTY, KY / SPENCER COUNTY, IND	
VINCENNES, IND.			PROJ. ODKBD D01D1 001	
			Shop Point SEE GNI	
Drawn	Checked	Approved	Revised	Edge Distance AS NOTED
DLW	EPE		RB	Holes: 15/16" ø
4/28/98	4/29/98		8/24/99	Contr. No. 672
				Sh. 29 of 45



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		FLOORBEAM		1	A28		53814
2							
3	PL	143x1	35'-11 1/2"	1	af1	A270-50M F2	CAMB-2
4	PL	16x1	72'-7 3/8"	1	af2	A270-50M F2	BENT
5	PL	16x1	75'-11 1/2"	1	af3	A270-50M F2	BENT
6	PL	143x1	39'-11 1/2"	1	af4	A270-50M F2	CAMB-1
7	PL	133x2	1'-12"	4	z1	A270-50M F2	
8	PL	16x2	1'-12"	2	z5	A270-50M F2	
9	PL	16x2	1'-12"	2	z7	A270-50M F2	
10	PL	7x2	1'-12"	4	z10	A270-50M F2	
11	PL	7x2	1'-12"	4	z11	A270-50M F2	
12							
13	PL	7x2	11'-11 1/2"	2	aa2	A270-50M	
14	PL	7x2	1'-7"	2	aa3	A270-50M	
15	PL	7x4	11'-11 1/2"	1	aa9	A270-50M F2	
16	PL	7x1	11'-11 1/2"	4	aa13	A270-50M	
17	PL	7x2	11'-11 1/2"	2	aa14	A270-50M	
18	PL	7x2	11'-11 1/2"	6	aa1	A270-50M	
19							
20	STUD	7/8"	8	514	ab4	A108	
21							
22	PL	7x2	11'-11 1/2"	2	aa15	A270-50M	
23							
24							
25							

WORK THIS SHEET WITH SHEET 28 & 29.

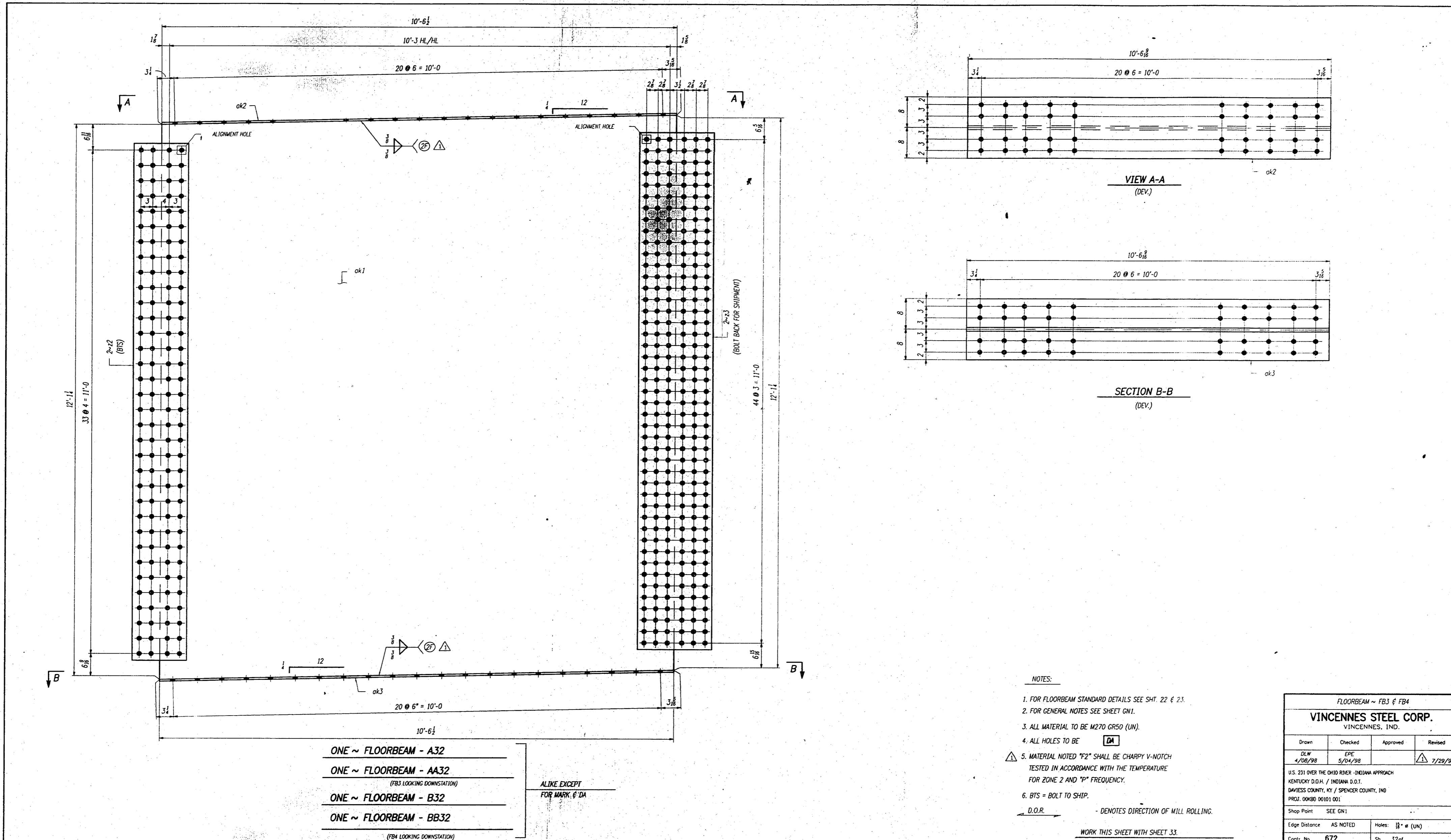
FLOORBEAM - FB2			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLN	EPE		
4/28/88	4/29/88		1/24/88
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DOKBD 00101 001			
Shop Print SEE GNI			
Edge Distance AS NOTED Holes 15/16" (LUN)			
Contr. No.	672	Sh.	30 of



LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1	FLOORBEAM			1 A31		AS SHOWN 5064
2	FLOORBEAM			1 AA31		OPP. HAND 5064
3						
4	PL	147 1/2 x 1	6'-6 1/2	2 a.j.1	M270-SOM F2	103/5
5	PL	16x2	4'-10 1/8	2 a.j.2	M270-SOM F2	103/2
6	PL	16x2	6'-6 1/2	2 a.j.3	M270-SO F2	103/10
7						
8	PL	133 1/2 x 2	1'-1 1/2	4 z.1	M270-SOM F2	103/17
9	PL	135 1/2 x 2	1'-1 1/2	4 z.2	M270-SOM F2	103/18
10	PL	16x2	1'-1 1/2	2 z.4	M270-SOM F2	BENT 103/21
11	PL	16x2	1'-1 1/2	2 z.5	M270-SO F2	BENT 103/18
12	PL	7x2	1'-1 1/2	4 z.8	M270-SOM F2	BENT 103/20
13	PL	7x2	1'-1 1/2	4 z.9	M270-SO F2	BENT 103/19
14						
15	STUD	7/8	8	55 ab.4	RI08	5/12
16						
17	PL	7 1/2 x 2	11'-11 1/8	4 aa.16	M270-SOM	10/5
18						
19	FLOORBEAM			1 B31		AS SHOWN 4891
20	FLOORBEAM			1 BB31		OPP. HAND 4891
21						
22	PL	147 1/2 x 1	6'-6 1/2	2 a.j.1	M270-SOM F2	103/5
23	PL	16x2	4'-10 1/8	2 a.j.2	M270-SOM F2	103/2
24	PL	16x2	6'-6 1/2	2 a.j.3	M270-SO F2	103/10
25						
26	PL	133 1/2 x 2	1'-1 1/2	4 z.1	M270-SOM F2	103/17
27	PL	135 1/2 x 2	1'-1 1/2	4 z.2	M270-SOM F2	103/18
28	PL	16x2	1'-1 1/2	2 z.4	M270-SOM F2	BENT 103/21
29	PL	16x2	1'-1 1/2	2 z.5	M270-SO F2	BENT 103/18
30	PL	7x2	1'-1 1/2	4 z.8	M270-SOM F2	BENT 103/20
31	PL	7x2	1'-1 1/2	4 z.9	M270-SO F2	BENT 103/19
32						
33	STUD	7/8	8	26 ab.4	RI08	5/12
34						
35	PL	7 1/2 x 2	11'-11 1/8	2 aa.16	M270-SOM	10/5
36						
37						
38						
39						
40						

- NOTES:
1. FOR FLOORBEAM STANDARD DETAILS SEE SHT. 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET GNI.
 3. ALL MATERIAL TO BE M270 GR50 (UN).
 4. ALL HOLES TO BE DR.
 5. MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
 6. BTS = BOLT TO SHIP.
- D.O.R. - DENOTES DIRECTION OF MILL ROLLING.

REV.	CTHT	CONN.	RB
APPROVAL COMMENTS PHG/BD			
FLOORBEAM - FB3 & FB4			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Reviewed
DLW	EPP		
4/08/98	5/01/98		8/24/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIES COUNTY, KY / SPENCER COUNTY, IND			
PROJ. ODKBD 00101 001			
Shop Point SEE GNI			
Edge Distance AS NOTED Holes 15/16" (UN)			
Contr. No. 672 Sh. 31 of 47			

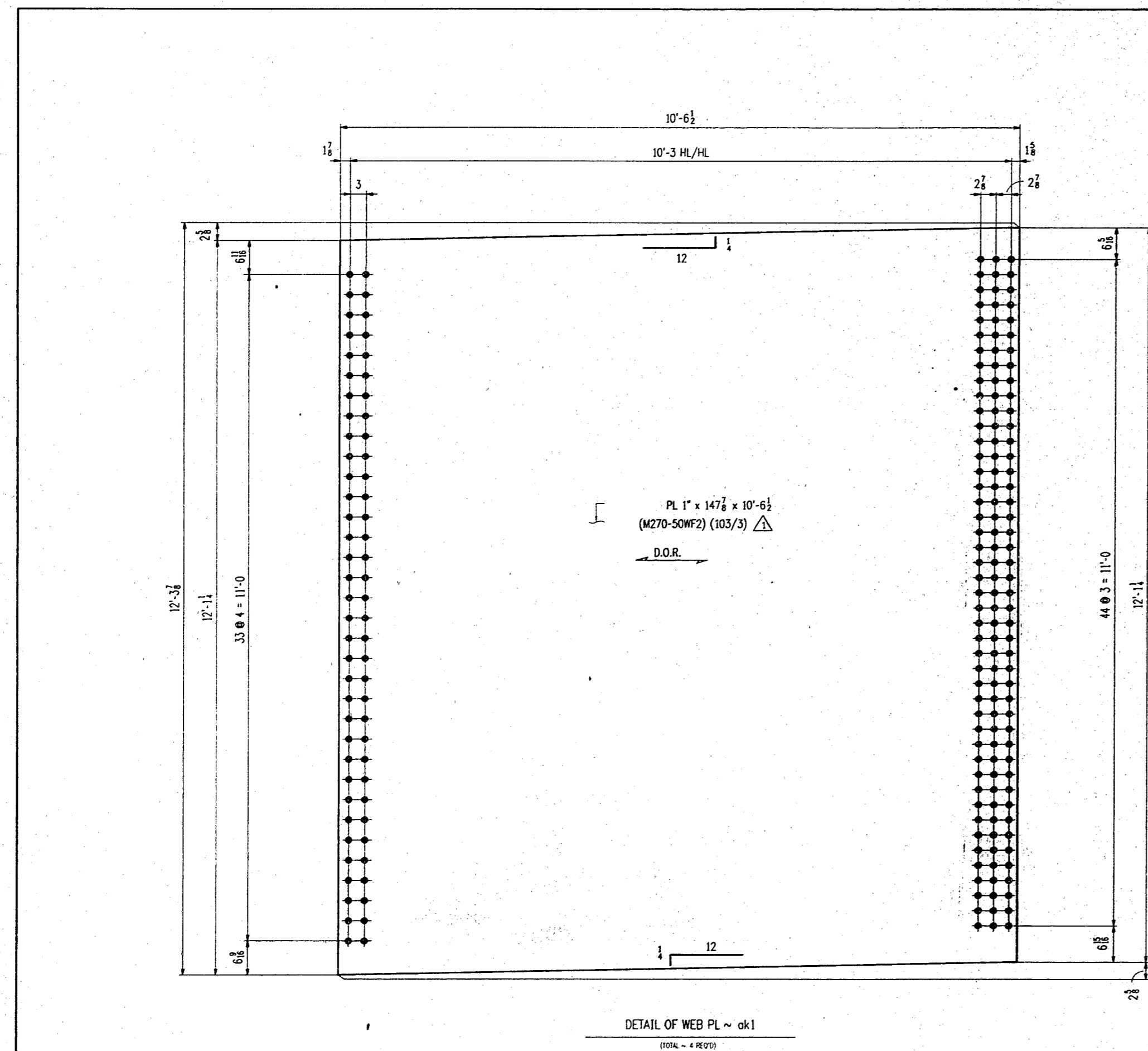


- ONE ~ FLOORBEAM - A32
- ONE ~ FLOORBEAM - AA32
(FB3 LOOKING DOWNSTATION)
- ONE ~ FLOORBEAM - B32
- ONE ~ FLOORBEAM - BB32
(FB4 LOOKING DOWNSTATION)

ALIKE EXCEPT
FOR MARK. E'DA

- NOTES:
1. FOR FLOORBEAM STANDARD DETAILS SEE SHT. 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET C01.
 3. ALL MATERIAL TO BE M270 GR50 (UN).
 4. ALL HOLES TO BE DA
 5. MATERIAL NOTED "F2" SHALL BE CHIPPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
 6. B1S = BOLT TO SHIP.
- D.O.R. DENOTES DIRECTION OF MILL ROLLING.
- WORK THIS SHEET WITH SHEET 33.

FLOORBEAM - FB3 & FB4			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
4/28/98	5/21/98		7/29/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAWESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00080 06101 001			
Shop Point	SEE C01		
Edge Distance	AS NOTED	Holes:	# (UN)
Cont. No.	672	Sh.	32 of



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	FLOORBEAM			1	A32		7096
2	FLOORBEAM			1	A32		7096
3	FLOORBEAM			1	B32		7096
4	FLOORBEAM			1	B32		7096
5							
6	PL	147 1/2 x 1	10'-6 1/2"	4	ok1	M270-50W △ F2	153/2
7	PL	16 x 1/2	10'-6 1/2"	4	ok2	M270-50W △ F2	153/8
8	PL	16 x 1/2	10'-6 1/2"	4	ok3	M270-50W △ F2	153/9
9							
10	PL	135 1/2 x 1	1'-11"	8	22	M270-50W △ F2	153/14
11	PL	135 1/2 x 1	1'-6 1/2"	8	23	M270-50W △ F2	153/15
12							#
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

FLOORBEAM ~ FB3 & FB4

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
DLW	EPE		
4/28/98	5/24/98		7/29/98

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.H. / INDIANA D.O.T.
 DANVILLE COUNTY, KY / SPENCER COUNTY, IND
 PROJ. 00NB0 00101 001

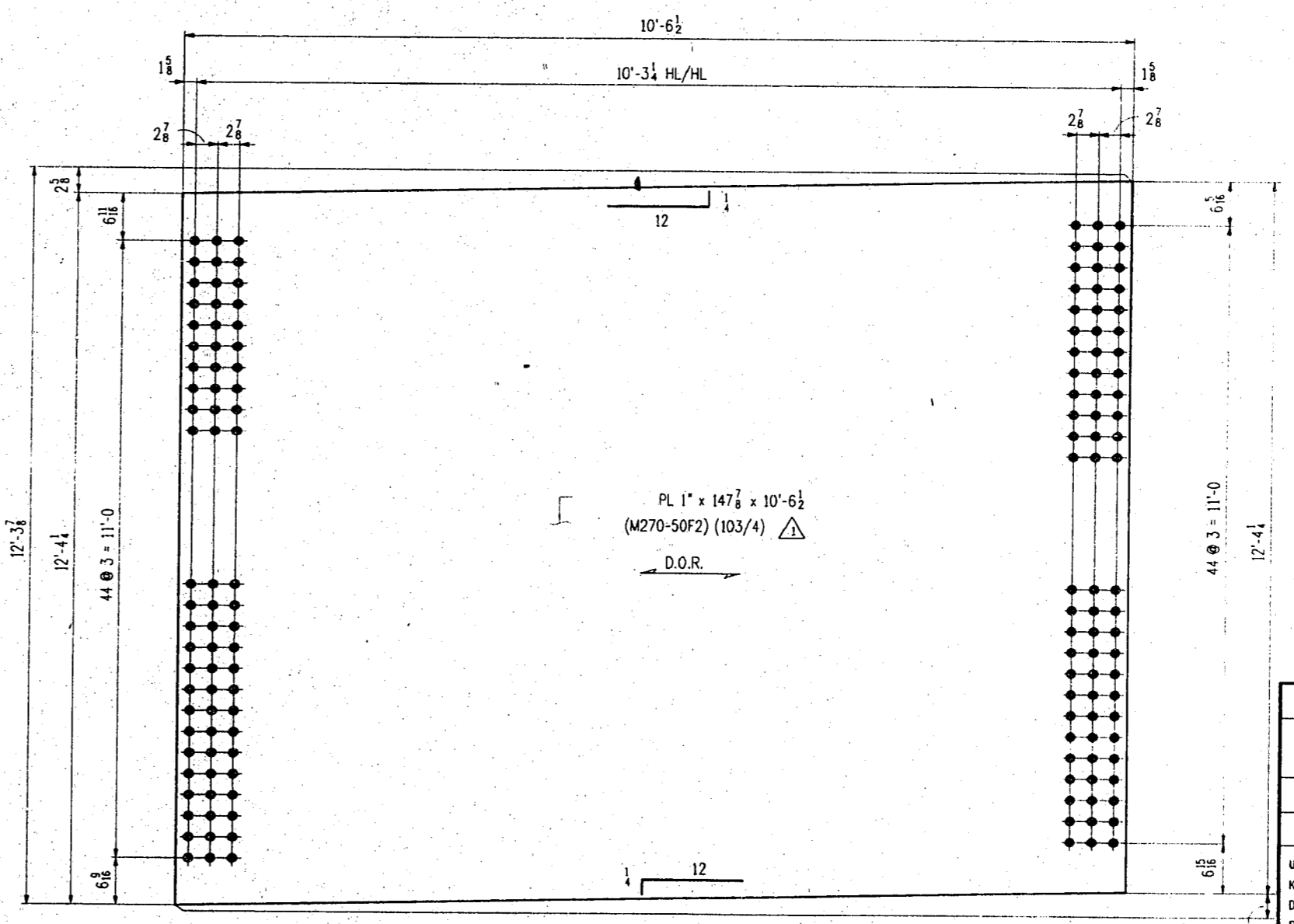
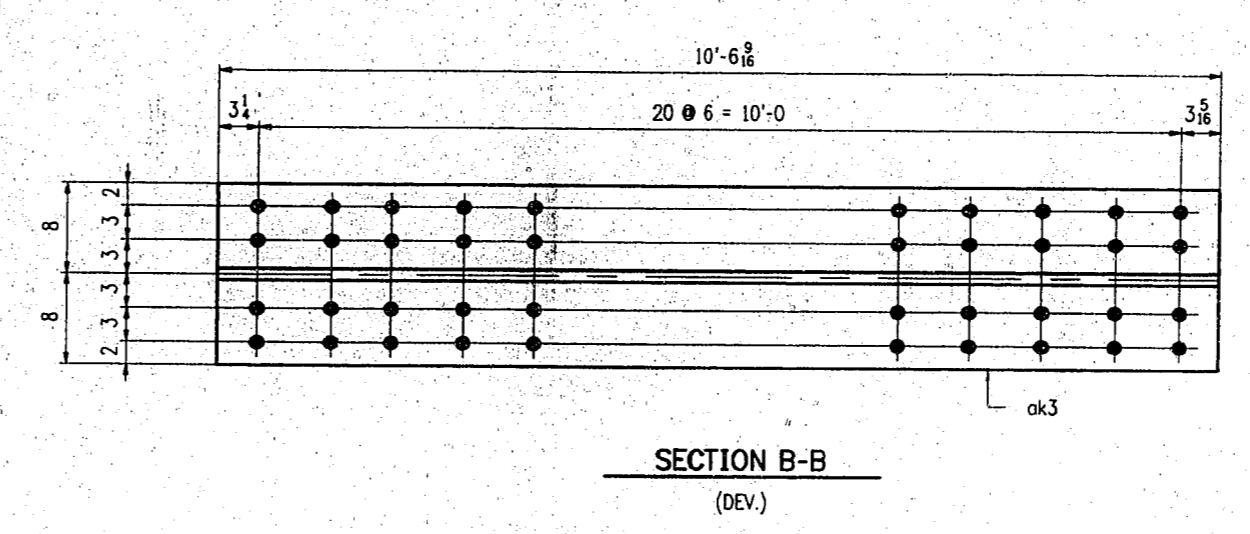
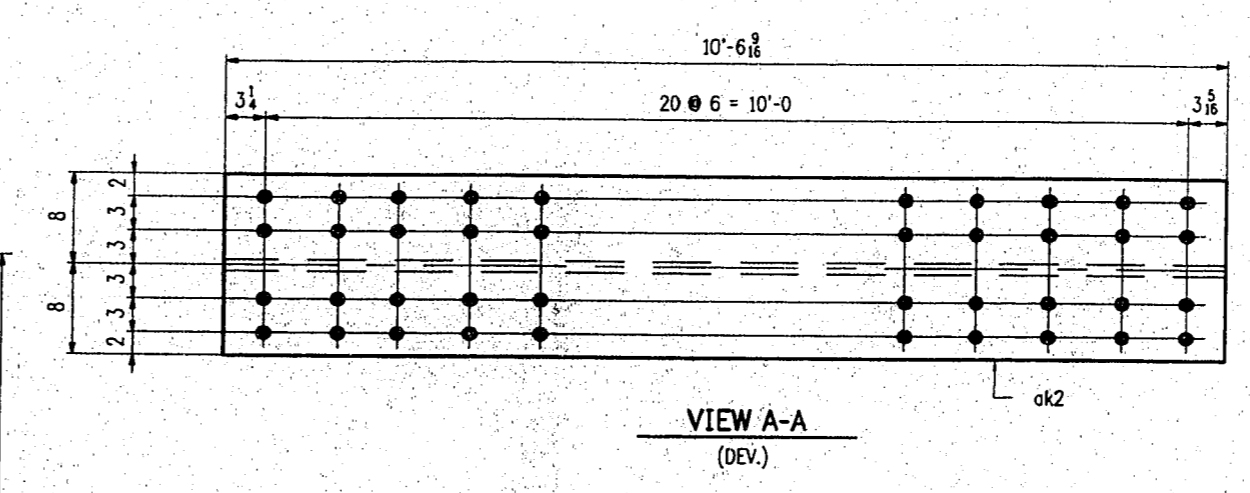
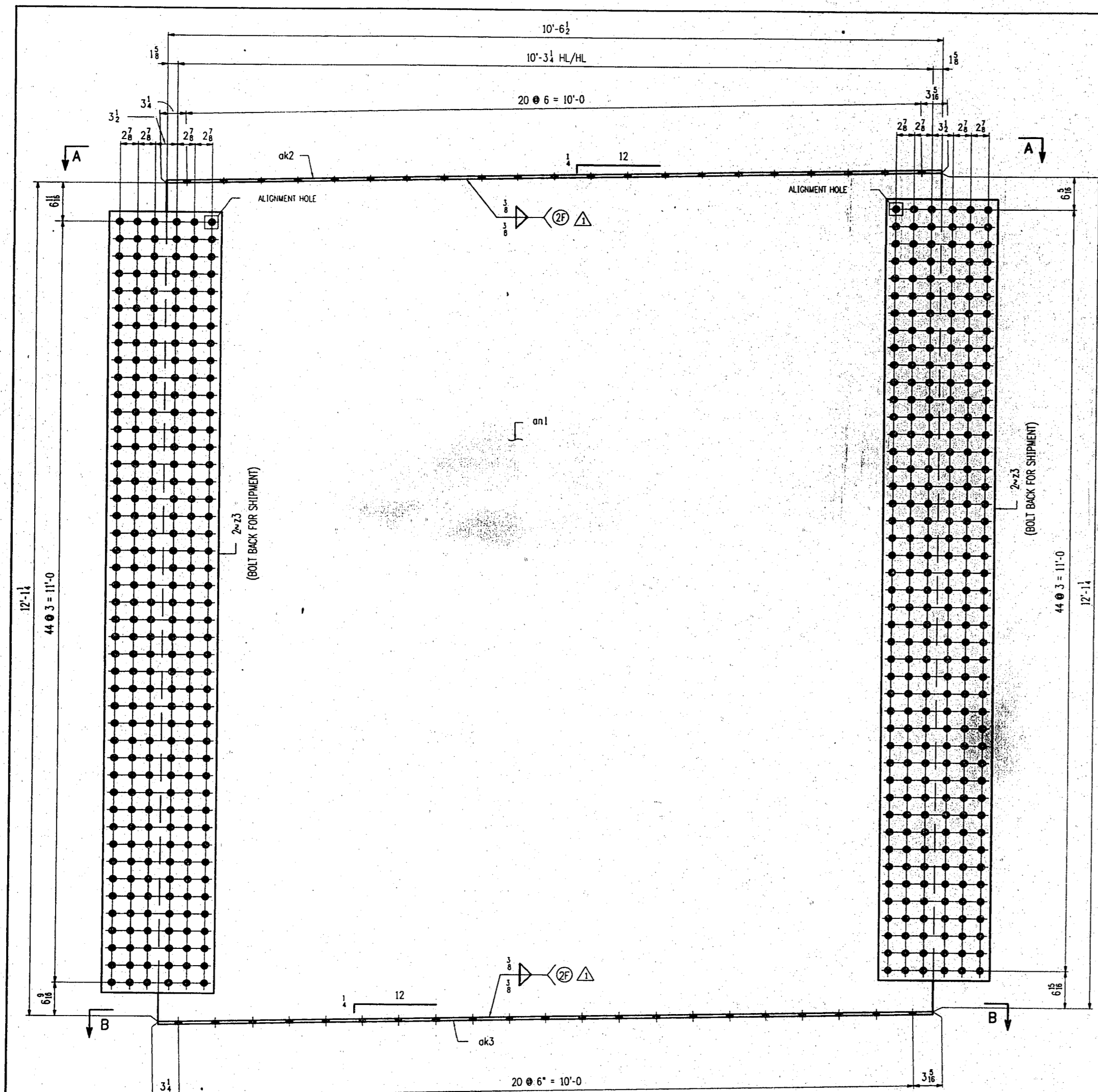
Shop Point SEE GN1

Edge Distance	AS NOTED	Holes: 11" ø (1/4")
Center No	672	Sh. 33 of

TENSOR 1819

WORK THIS SHEET WITH SHEET 32.

ALL MATERIAL TO BE M270 U.S.



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	FLOORBEAM			1	A34		7278
2	FLOORBEAM			1	B34		7278
3	FLOORBEAM			1	AA34		7278
4	FLOORBEAM			1	BB34		7278
5							
6	PL	147 1/2 x 1	10'-6 1/2	4	on1	M270-50	7278
7	PL	16 x 1/2	10'-6 1/2	4	on2	M270-50	7278
8	PL	16 x 1/2	10'-6 1/2	4	on3	M270-50	7278
9							
10	PL	135 1/2 x 1	1'-6 1/2	16	23	M270-50	7278
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

- NOTES:
1. FOR FLOORBEAM STANDARD DETAILS SEE SHT. 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET ON1.
 3. ALL MATERIAL TO BE M270 GR50 (UN).
 4. ALL HOLES TO BE **DA**.
 5. MATERIAL NOTED "F2" SHALL BE CHAMFY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "F" FREQUENCY.
- D.O.R. - DENOTES DIRECTION OF MILL ROLLING.

- ONE ~ FLOORBEAM - A34
(FB3 LOOKING DOWNSTATION - BTM G5 & G4)
- ONE ~ FLOORBEAM - B34
(FB4 LOOKING DOWNSTATION - BTM G5 & G4)
- ONE ~ FLOORBEAM - AA34
(FB3 LOOKING DOWNSTATION - BTM G3 & G2)
- ONE ~ FLOORBEAM - BB34
(FB4 LOOKING DOWNSTATION - BTM G3 & G2)

ALIKE EXCEPT FOR M2 & DA

FLOORBEAM ~ FB3 & FB4

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
D/W 4/08/98	EPE 5/04/98		7/29/98

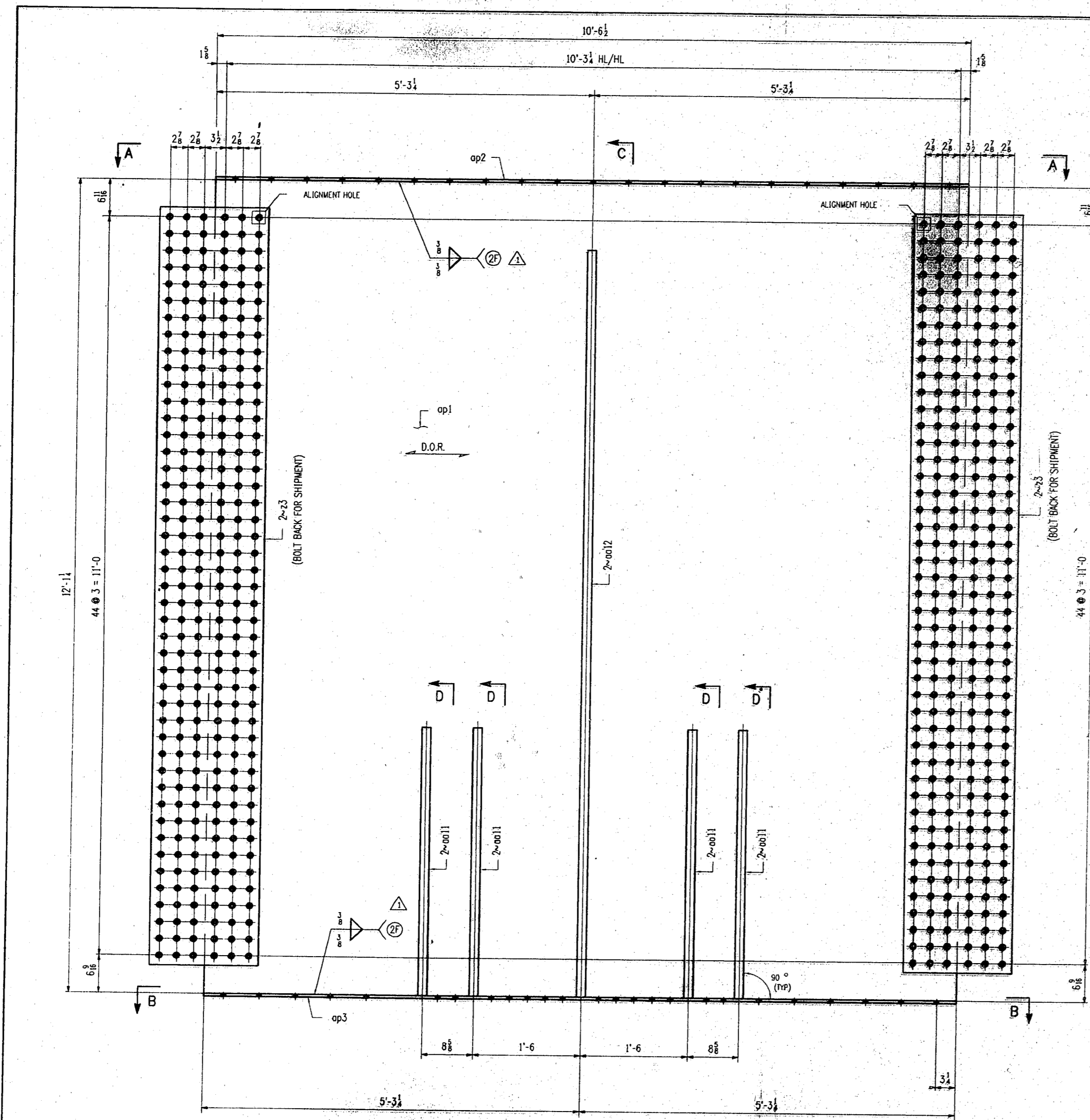
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY S.O.D. / INDIANA D.O.T.
DANESS COUNTY, IN / SPENCER COUNTY, IND
PROJ. OKWB 00101 001

Shop Point SEE ON1

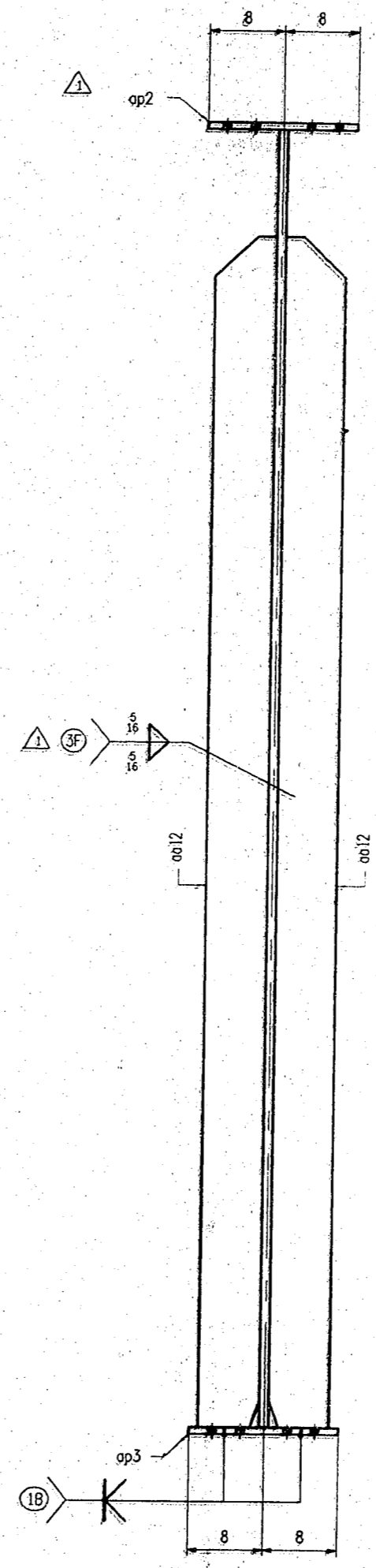
Edge Distance	AS NOTED	Notes: 11" # (UN)
Contr. No.	672	Sh. 34 of

50

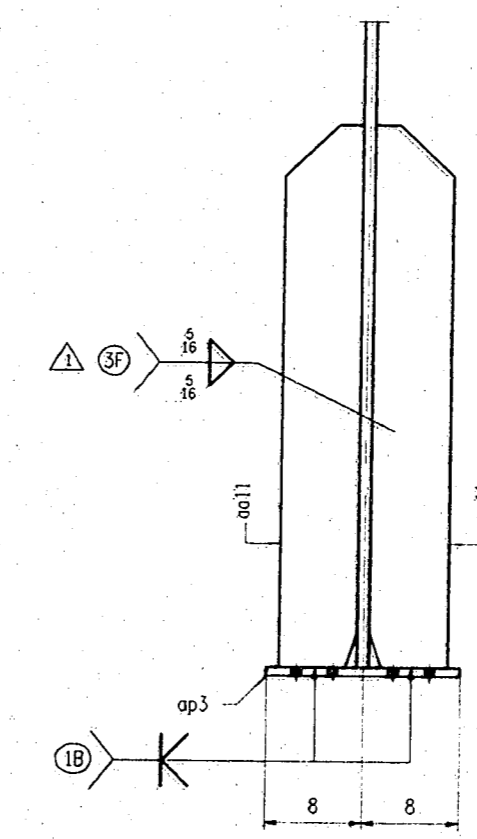
ALL MATERIAL TO BE M270 UN.



ONE FLOORBEAM - A35
(FB3 LOOKING DOWNSTATION - ERM C4 (C3))



SECTION -C

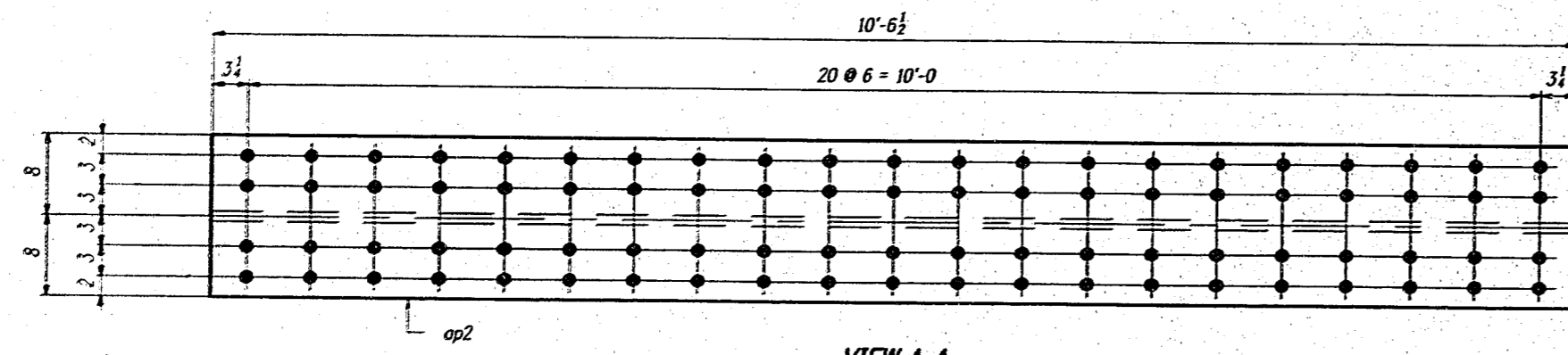


SECTION -D

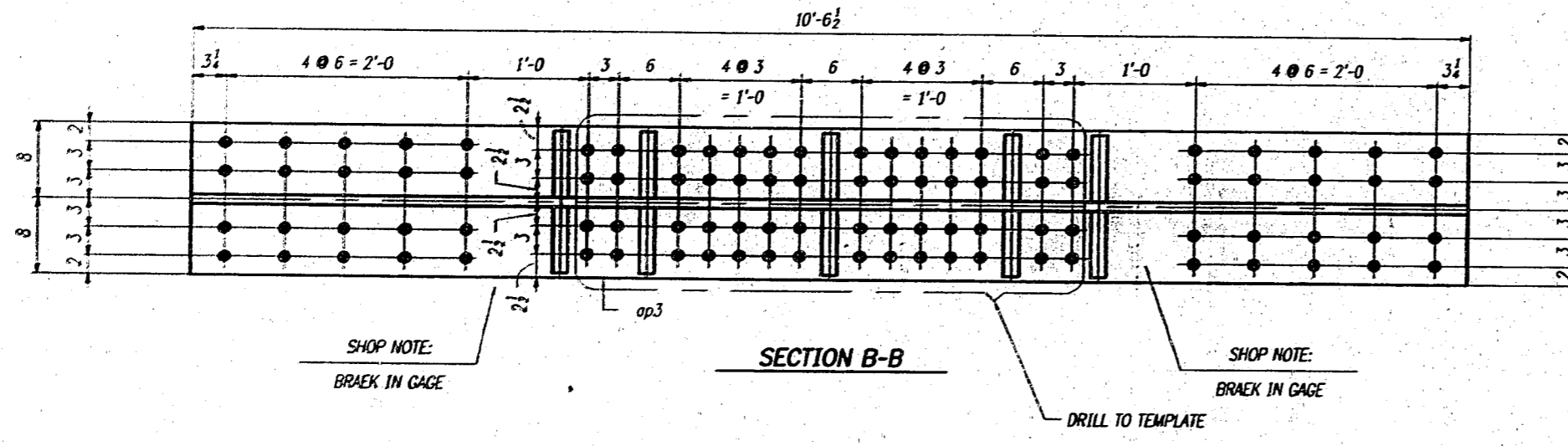
- NOTES:**
1. FOR FLOORBEAM STANDARD DETAILS SEE SHT 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET 001.
 3. ALL MATERIAL TO BE A270 GR50 (UN).
 4. ALL HOLES TO BE [M].
 5. MATERIAL NOTED "FZ" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "PF" FREQUENCY.
- D.O.R. - DENOTES DIRECTION OF MILL ROLLING.

WORK THIS SHEET WITH SHEET 36.

APPROVAL COMMENTS		PHC/DD	
FLOORBEAM - FB3			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
OLW	EPE		
4/28/98	5/04/98		7/8/98
U.S. 231 OVER THE OHIO RIVER - HOUMA APPROACH			
KENTUCKY SIDE - HOUMA DIST.			
DAWSON COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00K80 00101 001			
Shop Print	SEE 001		
Edge Distance	AS NOTED	Holes	# * # (UN)
Cont. No.	672	Sh.	35 of



VIEW A-A



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		FLOORBEAM		1	A35		OK3
2	PL	145 1/2 x 1	10'-6 1/2"	1	op1	A35	MS2
3	PL	16 x 1/2	10'-6 1/2"	1	op2	A35	MS2
4	PL	16 x 1/2	10'-6 1/2"	1	op3	A35	MS2
5	PL	135 1/2 x 1/2	1'-6 1/2"	4	23	A35	MS25
6	PL	6 1/2 x 1/2	4'-0"	8	0011	A35	MS24
7	PL	6 1/2 x 1/2	17'-11 1/2"	2	0012	A35	MS22
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

FLOORBEAM - FB3

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
DLM 4/08/98	EPE 5/04/98		7/13/98

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.R. / INDIANA D.O.T.
DAVLESS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 30030 00/01 001

Shop Point: SEE CIV1

Edge Distance: AS NOTED Holes: 3" @ (LN)

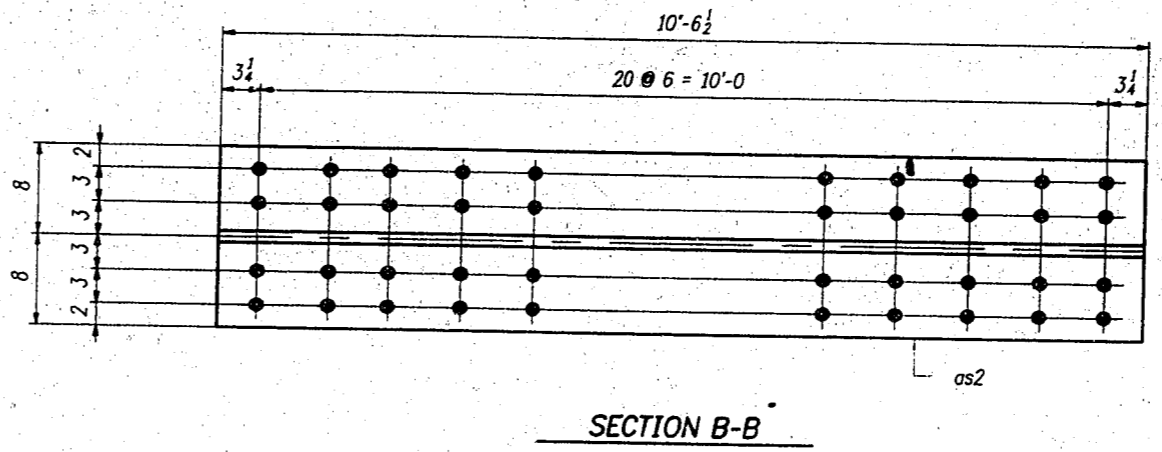
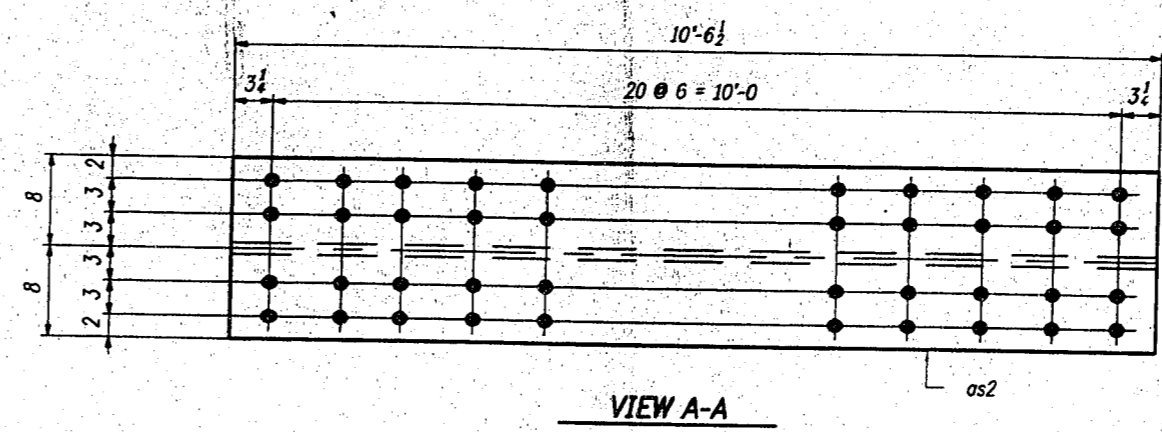
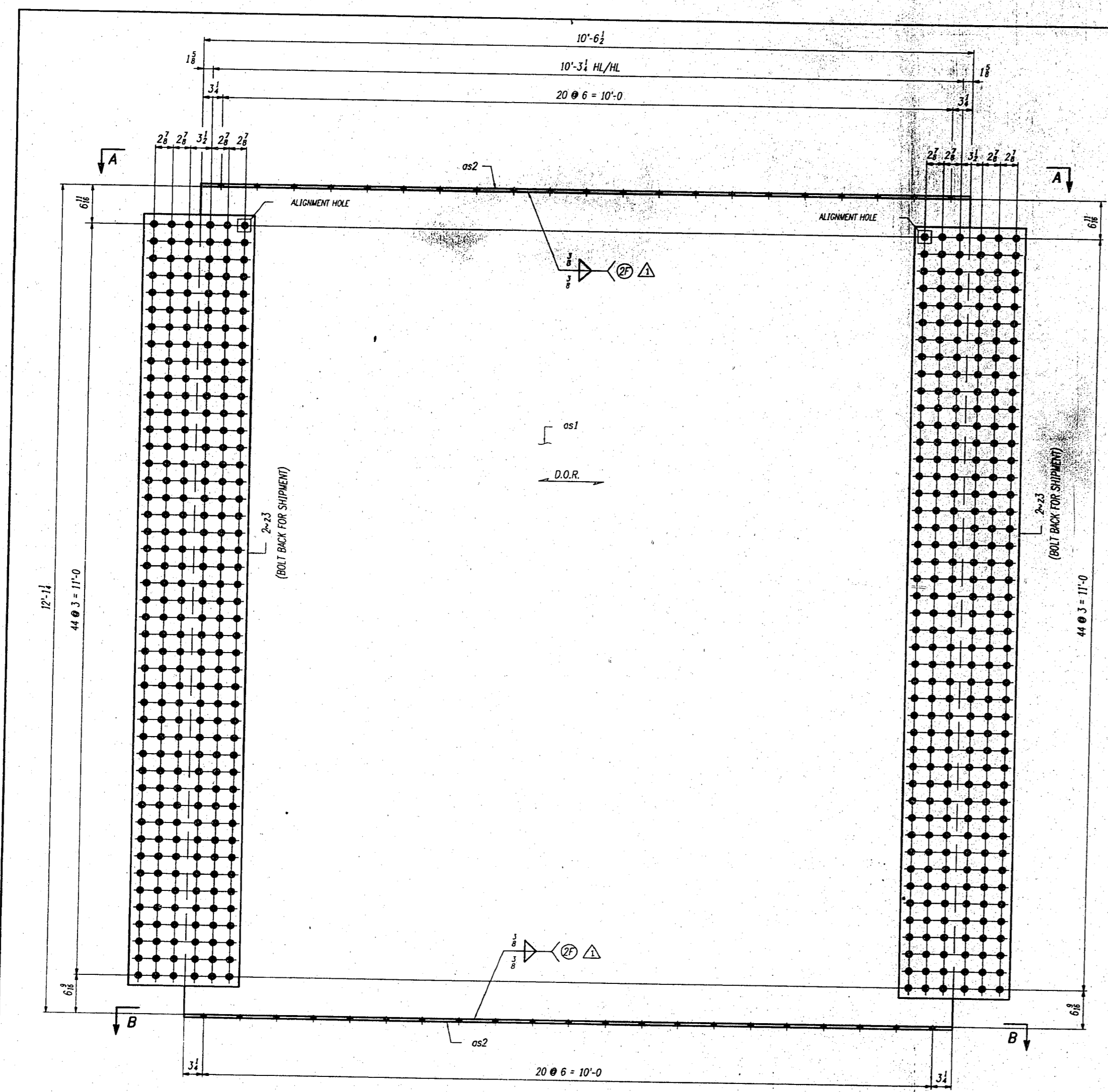
Cont: No. 672 Sh. 36 of

ALL MATERIAL TO BE A35 GR 50

WORK THIS SHEET WITH SHEET 35.

THEOR 1819

52



BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ.	MARK	REMARKS
1		FLOORBEAM		1	A37	7184
2	PL	145 L x 1	10'-6 1/2	1	os1	M270-50 F2
3	PL	18 x 1/2	10'-6 1/2	2	os2	M270-50 F2
4	PL	135 L x 1	1'-6 1/2	4	os3	M270-50 F2
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

ONE ~ FLOORBEAM - A37
 (FBA LOOKING DOWNSTATION - STAY CH 4 & C3)

- NOTES:
1. FOR FLOORBEAM STANDARD DETAILS SEE SH. 22 & 23.
 2. FOR GENERAL NOTES SEE SHEET G01.
 3. ALL MATERIAL TO BE M270 GR50 (UN).
 4. ALL HOLES TO BE DA
 5. MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
- D.O.R. → - DENOTES DIRECTION OF MILL ROLLING.

* FLOORBEAM ~ FBA

VINCENNES STEEL CORP.
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
4/26/99	5/24/99		7/13/99

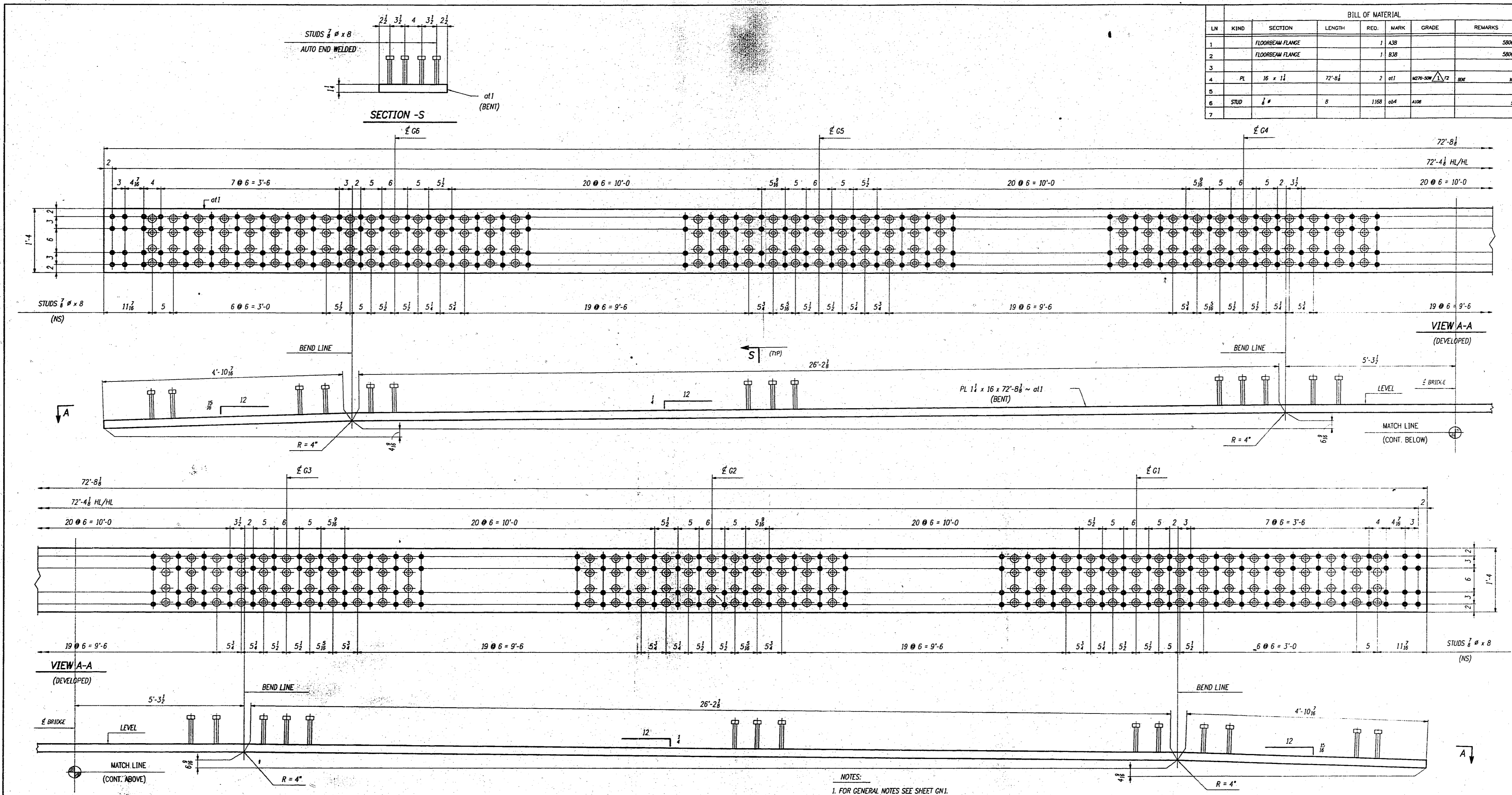
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.M. / INDIANA D.O.T.
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. 00080 00101 001

Shop Point SEE G01

Edge Distance AS NOTED Holes: 1/2" # (UN)

Cont. No. 672 Sh. 37 of

INTEGR 1819



BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ.	MARK	REMARKS
1	FLOORBEAM FLANGE			7	A38	5006
2	FLOORBEAM FLANGE			7	B38	5006
3						
4	PL	1 1/2 x 1 1/2	72'-0 1/2	2	at1	NOT TO SCALE 1/2" = 1'-0"
5						
6	STUD	1/2" x 8"		1108	at1	512
7						

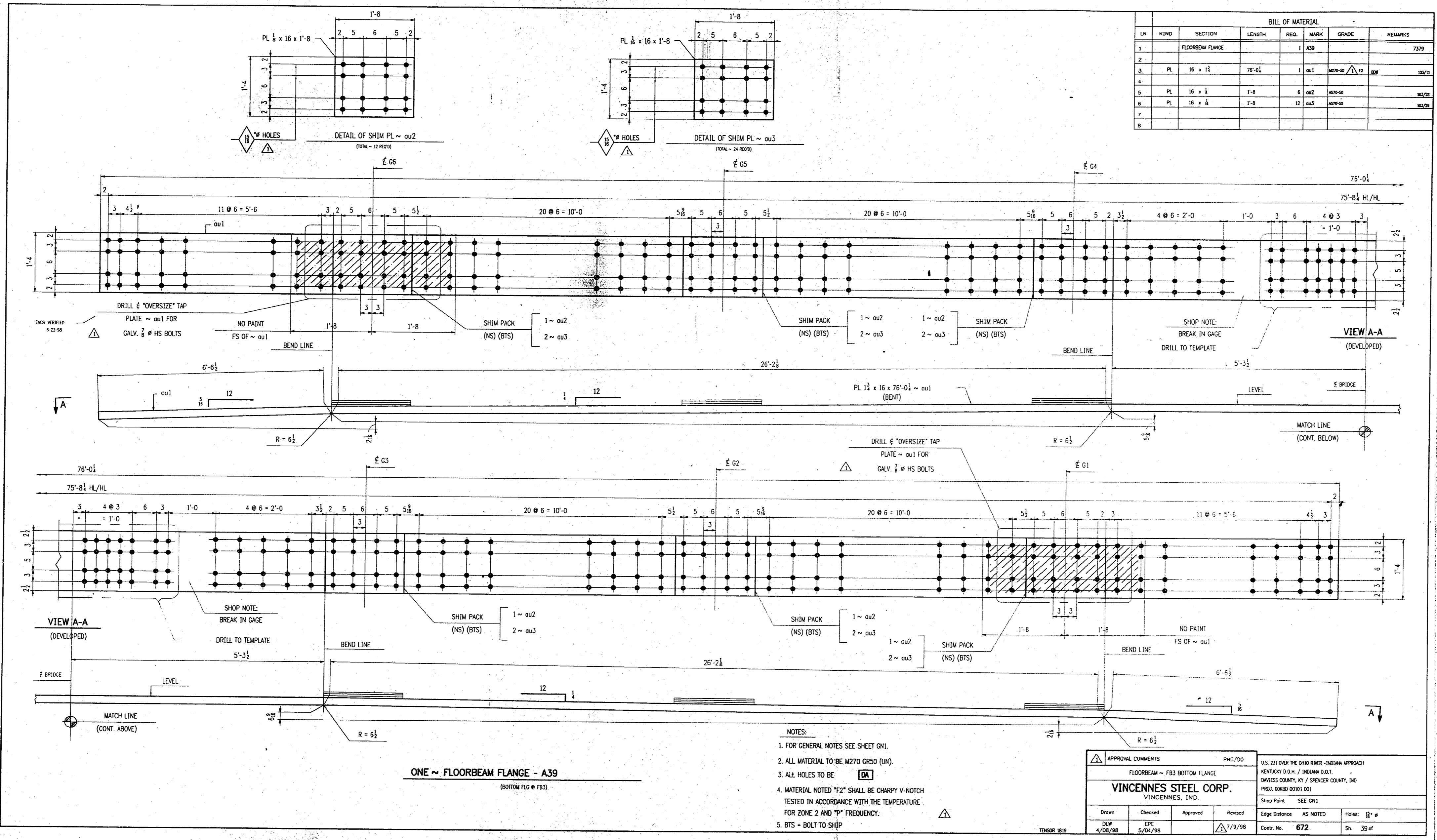
NOTE:
 "NP" INDICATES SURFACES TO HAVE
 1.5 MILS PAINT THICKNESS AS
 DEFINED ON SHEET GNL.

ONE ~ FLOORBEAM FLANGE - A38
 (TOP FLG # FB3)
 ONE ~ FLOORBEAM FLANGE - B38
 (TOP FLG # FB4)

ALINE EXCEPT
 TOP AND BOTTOM

- NOTES:
- FOR GENERAL NOTES SEE SHEET GNL.
 - ALL MATERIAL TO BE A38 OR B38 (UN).
 - ALL HOLES TO BE **DA**.
 - MATERIAL NOTED "2" SHALL BE CHAMFY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
 - ALL SURFACES "NP"

FLOORBEAM - FB3 & FB4 TOP FLANGE				U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH		
VINCENNES STEEL CORP.				DAVENPORT COUNTY, KY / SPENCER COUNTY, INO		
VINCENNES, INO				PROJ. 00080 00101 001		
				Shop Point SEE GNL		
Drawn	Checked	Approved	Revised	Edge Distance	AS NOTED	Holes: 1/2" = 1"
DLW	EPE					
4/08/98	5/04/98		7/13/98	Contr. No. 672		Sh. 38 of 59



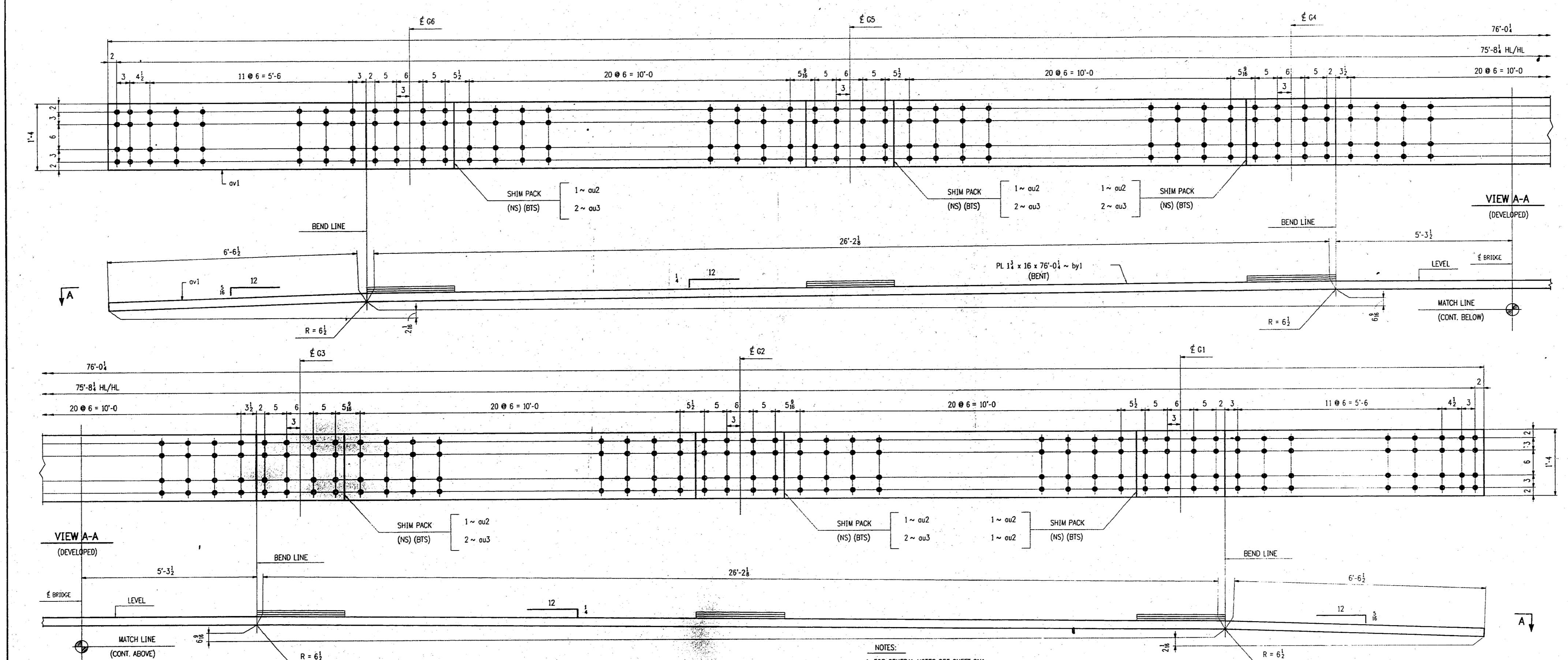
ONE ~ FLOORBEAM FLANGE - A39
(BOTTOM FLG OF FB3)

- NOTES:
1. FOR GENERAL NOTES SEE SHEET G01.
 2. ALL MATERIAL TO BE M270 GR50 (LN).
 3. ALL HOLES TO BE \square .
 4. MATERIAL NOTED "F2" SHALL BE CHAMPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
 5. BTS = BOLT TO SHIP

APPROVAL COMMENTS				PHC/DO	U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY B.O.A. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K80 00101 001
FLOORBEAM ~ FB3 BOTTOM FLANGE					
VINCENNES STEEL CORP. VINCENNES, IND.					Shop Point SEE G01
Drawn	Checked	Approved	Revised	Edge Distance	AS NOTED
DLM	EPC		7/9/98	Holes: 12"	
4/08/98	5/04/98			Contr. No. 672	Sh. 39 of

ALL MATERIAL TO BE M270 U.S.

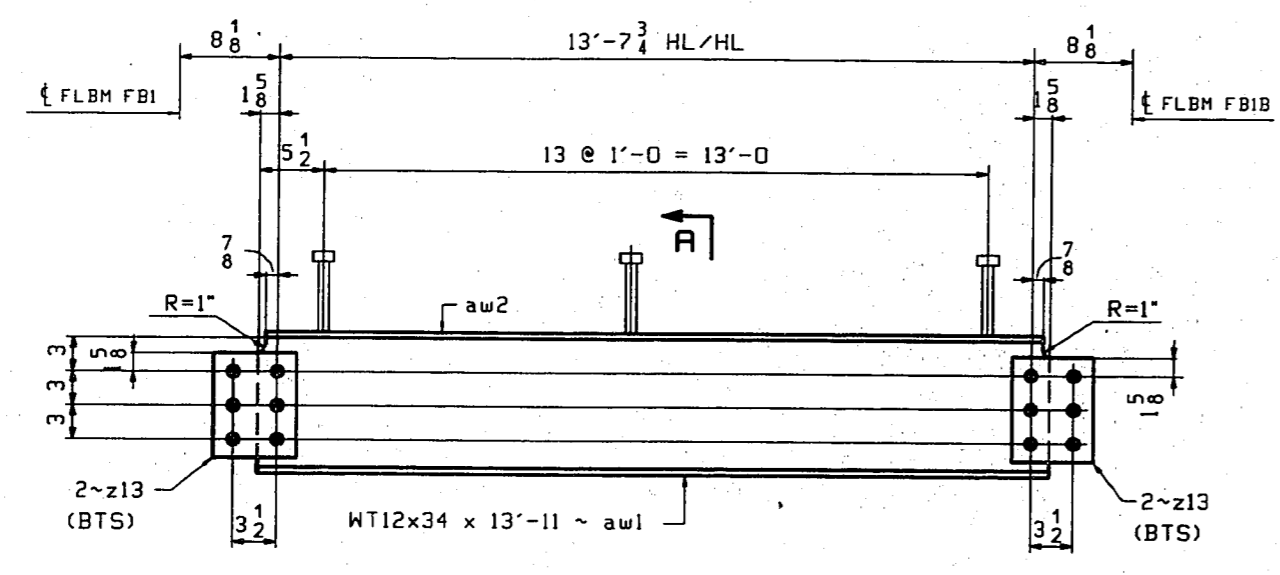
BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	FLOORBEAM FLANGE			1	A40		7379
2							
3	PL	16 x 1 1/2	76'-01"	1	ou1	A270-50	103/11
4							
5	PL	16 x 1 1/2	1'-8"	6	ou2	A270-50	103/11
6	PL	16 x 1 1/2	1'-8"	12	ou3	A270-50	103/11
7							
8							



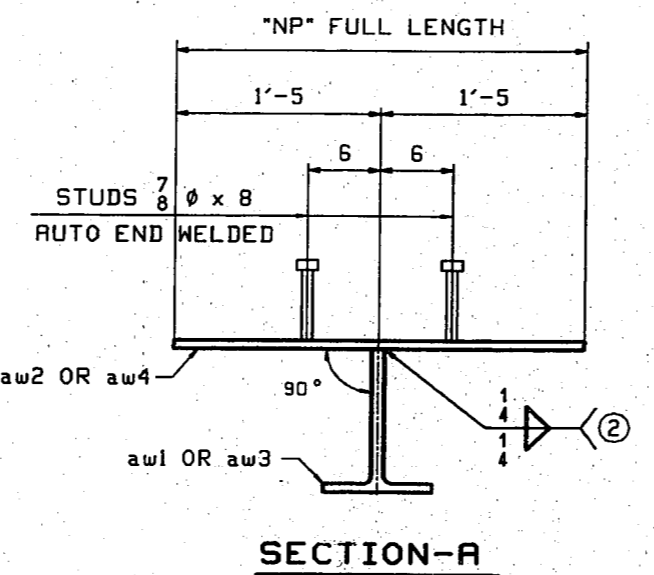
ONE ~ FLOORBEAM FLANGE - A40
(BOTTOM FLD @ FB4)

- NOTES:
1. FOR GENERAL NOTES SEE SHEET GN1.
 2. ALL MATERIAL TO BE M270 GR50 (UN).
 3. ALL HOLES TO BE **DA**.
 4. MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
 5. BTS = BOLT TO SHIP

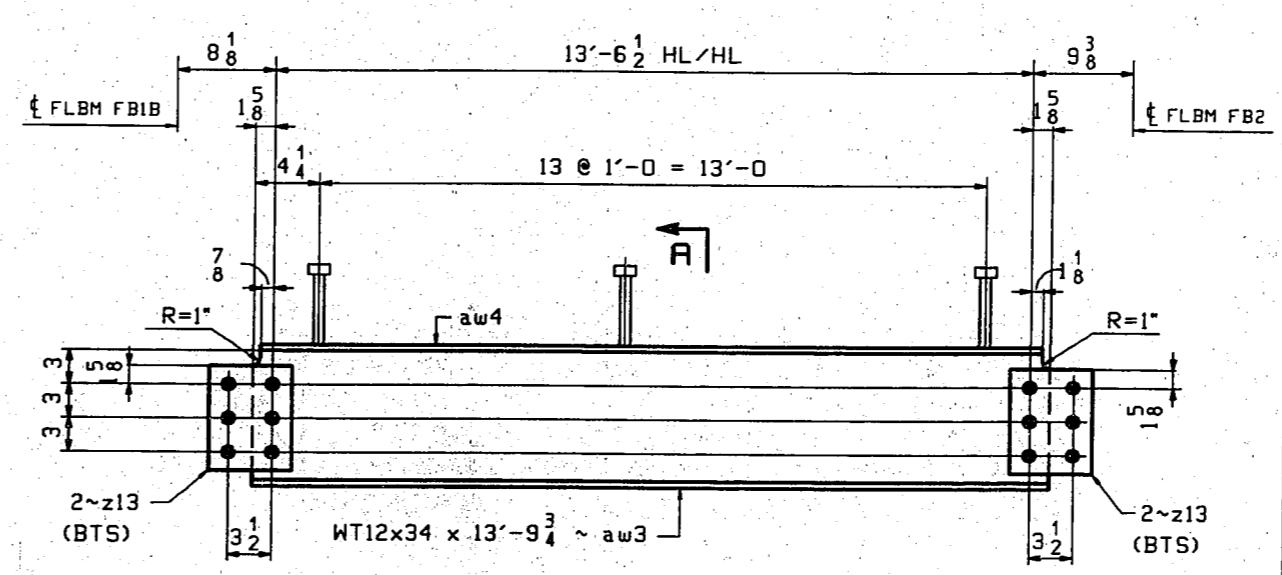
APPROVAL COMMENTS			PHG/DD	U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH	
FLOORBEAM ~ FB4 BOTTOM FLANGE				KENNESAW D.O.M. / INDIANA D.O.T.	
VINCENNES STEEL CORP.				DAVIESS COUNTY, KY / SPENCER COUNTY, IND.	
VINCENNES, IND.				PROJ. 00030 00101 001	
Drawn	Checked	Approved	Revised	Shop Print	SEE GN1
ELW	EFC			Edge Distance	AS NOTED
4/08/98	5/04/98		7/9/98	Contr. No.	672
				Holes	11 x 8
				Sh.	40 of 40



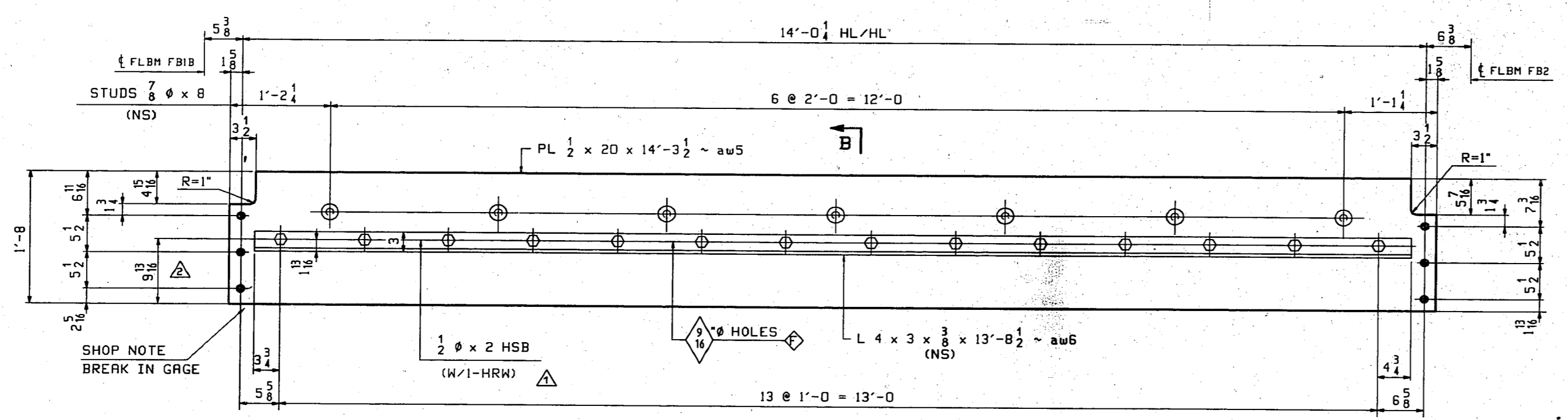
ONE ~ DIAPHRAGM - A41
(BTM FBI & FB1B)



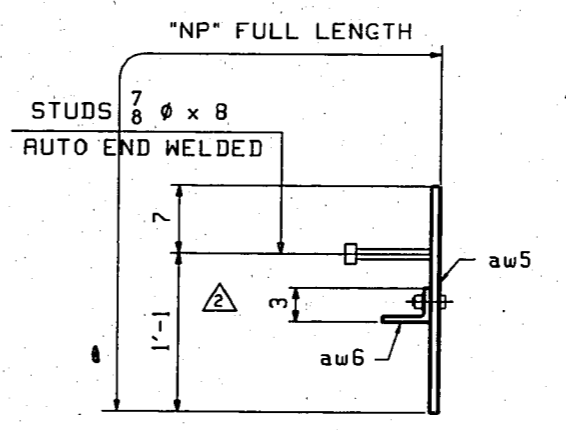
SECTION-A



ONE ~ DIAPHRAGM - B41
(BTM FBI B & FB2)



ONE ~ DIAPHRAGM - C41 (AS SHOWN)
ONE ~ DIAPHRAGM - CC41 (OPP. HAND)
(BTM FBI B & FB2)



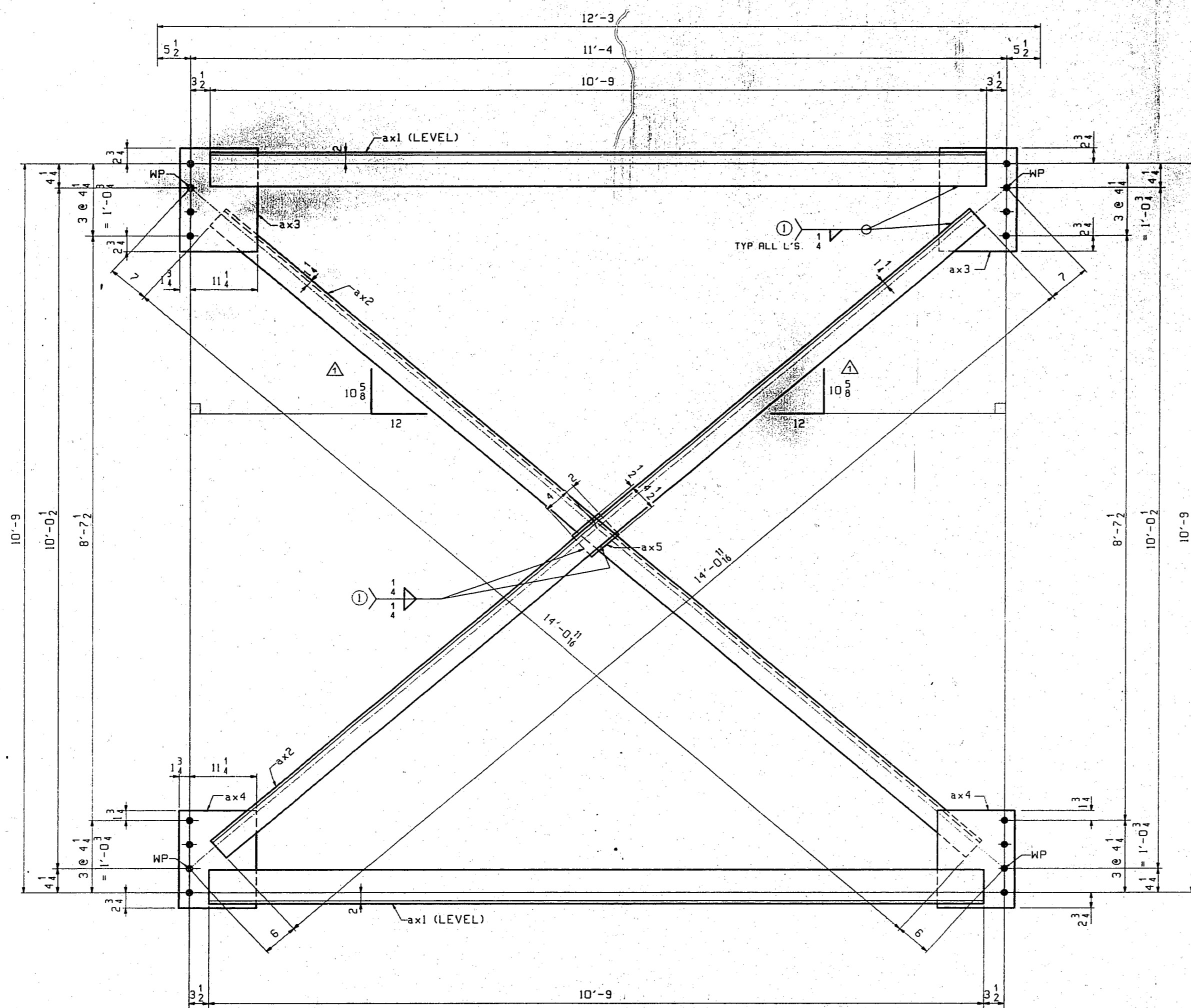
SECTION - B

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		DIAPHRAGM		1	R41		1334
2							
3	WT	12x34	13'-11"	1	aw1	M270-50 T2	101/16
4	PL	34 x 1/2	13'-9 1/2"	1	aw2	M270-50 T2	101/17
5							
6	PL	9 1/4 x 5/8	6 1/2"	4	z13	M270-50 T2	101/18
7							
8	STUD	7/8"	8"	28	ab4	A108	5/12
9							
10							
11							
12		DIAPHRAGM		1	B41		1326
13							
14	WT	12x34	13'-9 1/2"	1	aw3	M270-50 T2	101/15
15	PL	34 x 1/2	13'-8 1/2"	1	aw4	M270-50 T2	101/17
16							
17	PL	9 1/4 x 5/8	6 1/2"	4	z13	M270-50 T2	101/18
18							
19	STUD	7/8"	8"	28	ab4	A108	5/12
20							
21							
22							
23							
24		DIAPHRAGM		1	C41		AS SHOWN 616
25		DIAPHRAGM		1	CC41		OPP. HAND 616
26							
27	PL	20 x 1/2	14'-3 1/2"	2	aw5	M270-50H	104/5
28	L	4 x 3 x 3/8	13'-8 1/2"	2	aw6	M270-50H	104/6
29							
30	HSB	1/2"	2"	28	M325-1	GN1	5/2
31	HRW	2"	2"	28	F436	GN1	5/6
32							
33							
34	STUD	7/8"	8"	14	ab4	A108	5/12
35							
36							
37							
38							
39							
40							

NOTE:
"NP" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET GNI.

- NOTES:
- FOR STANDARD DETAILS SEE SHT. 22.
 - FOR GENERAL NOTES SEE SHEET GNI.
 - ALL MATERIAL TO BE M270 GR50 (UN).
 - MATERIAL NOTED "T2" SHALL BE CHAMPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "H" FREQUENCY.
 - BTS = BOLT TO SHIP
 - ◇ - DENOTES HOLES TO BE DRILLED FULL SIZE.

REVISION	REVISED C41 & CC41	RB
REVISION	REMOVED LID	RB / DO
DIAPHRAGMS		
VINCENNES STEEL CORP. VINCENNES, IND.		
Drawn	Checked	Approved
DLM	EPE	
4/03/98	5/05/98	
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH		
KENTUCKY D.O.M. / INDIANA D.O.T.		
DAVIESS COUNTY, KY / SPENCER COUNTY, IND		
PROJ. 00KBD 00101 001		
Shop Print SEE GNI		
Edge Distance AS NOTED		Holes: 1/4" (UN)
Contr. No. 672	Sh. 41 of 57	



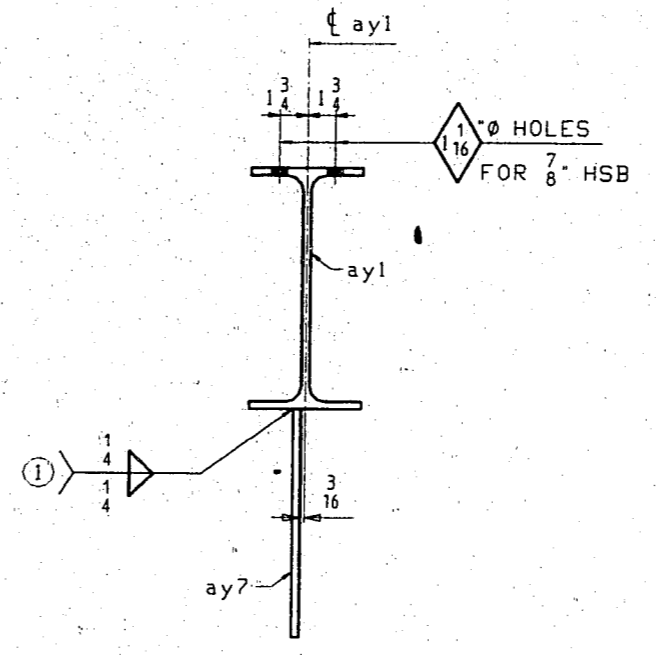
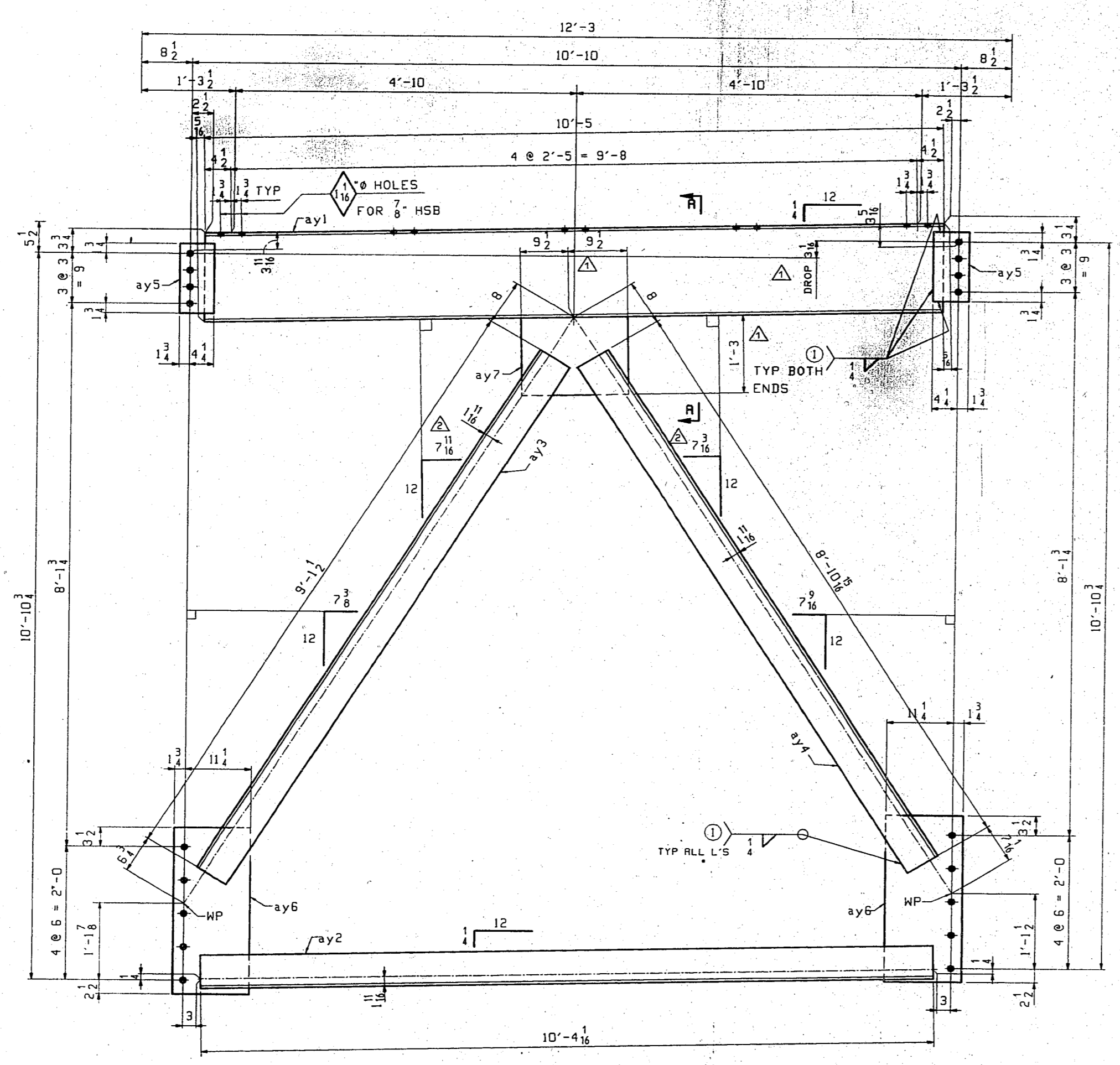
50 ~ INTERMEDIATE CROSSFRAMES ~ A42

BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1		INTERMEDIATE CROSSFRAMES		50	A42	915
2						
3	L	5x6x $\frac{1}{2}$	10'-9"	100	ax1	4/4
4	L	4x4x $\frac{1}{2}$	14'-0 $\frac{1}{2}$ "	100	ax2	4/5
5	PL	13 x $\frac{1}{2}$	1'-5 $\frac{1}{2}$ "	100	ax3	4/3
6	PL	13 x $\frac{1}{2}$	1'-5 $\frac{1}{2}$ "	100	ax4	4/3
7	PL	5 x $\frac{1}{2}$	6"	50	ax5	4/6
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

NOTES:
 1. FOR GENERAL NOTES SEE SHEET GNI.
 2. ALL MATERIAL TO BE M270 GR50 (U.N.)

ADD BEVELS		PHG/DD	
CROSSFRAMES			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		2/29/98
04/11/98	05/05/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DOKBD 001D1 D01			
Shop Print SEE GNI			
Edge Distance AS NOTED		Holes: $\frac{1}{4}$ (LUN)	
Contr. No. 672		Sh. 42 of	

SENSOR 1819



2 ~ PIER CROSSFRAMES ~ A43
PIER IN
(LOOKING UP-STATION)

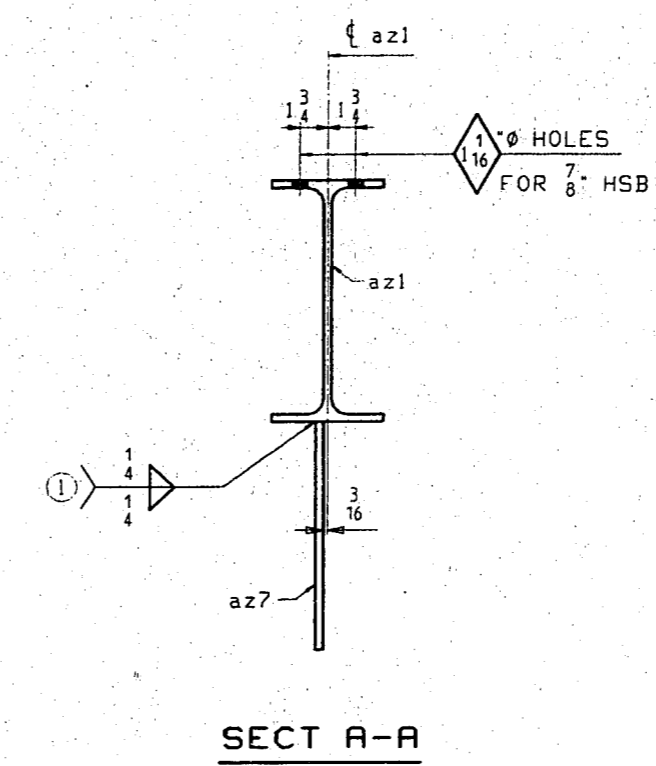
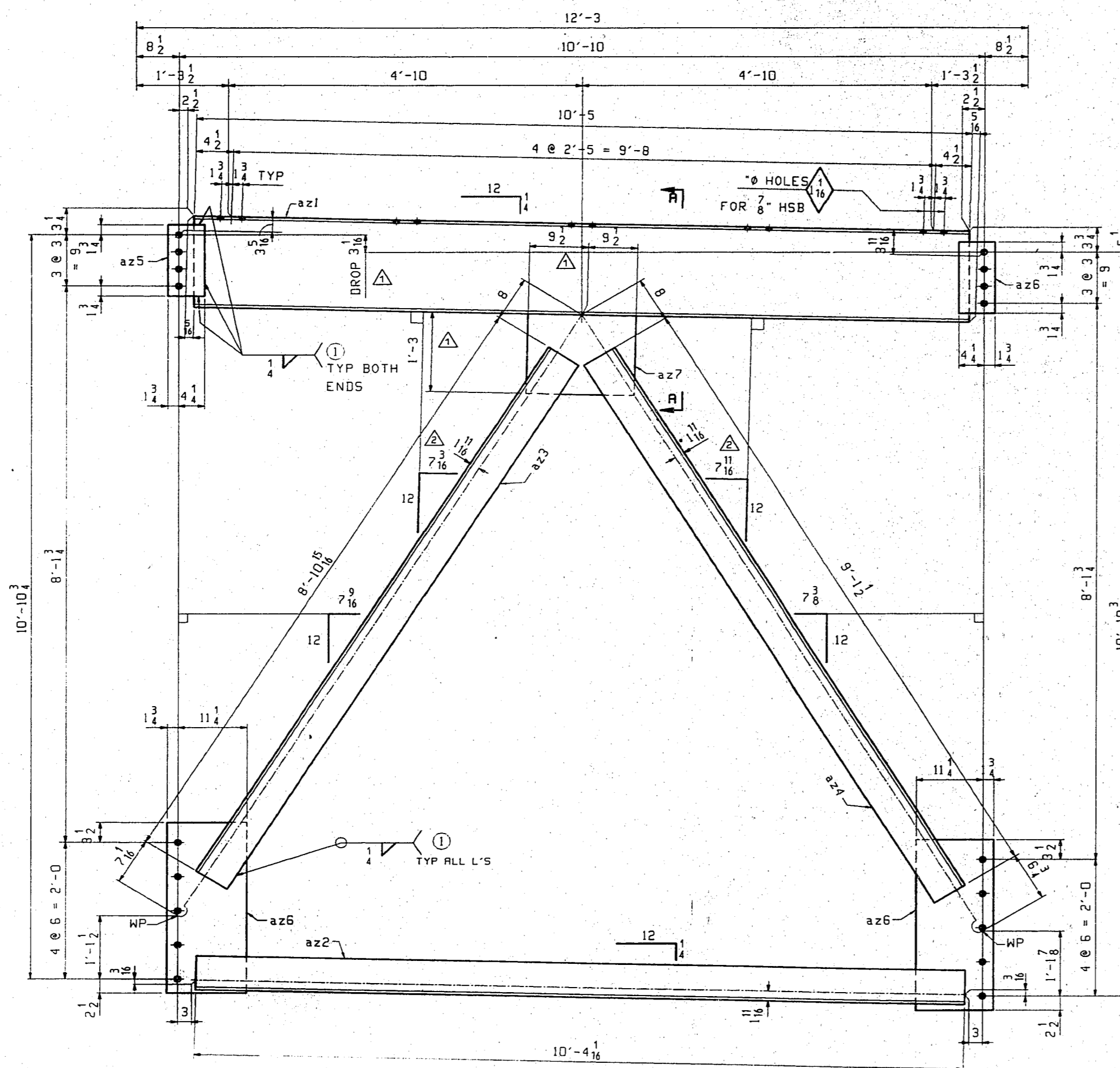
NOTES:
1. FOR GENERAL NOTES SEE SHEET GNI.
2. ALL MATERIAL TO BE M270 GR50 (U.N.)

BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1		PIER CROSSFRAMES		2 A43		1145
2						
3	H	16x40	10'-5 1/2"	2 ay1		414
4	L	6x6 x 1/2	10'-4 1/2"	2 ay2		412
5	L	6x6 x 1/2	9'-1 1/2"	2 ay3		413
6	L	6x6 x 1/2	8'-10 1/2"	2 ay4		413
7	PL	6 x 1/2	1'-0 1/2"	4 ay5		415
8	PL	13 x 1/2	2'-6"	4 ay6		416
9	PL	15 x 1/2	1'-7"	2 ay7		417
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

ADD BEVELS	PHG/DD
REVISE CENTER GUSSET	PHG/DD
ADD DROP DIM	
CROSSFRAMES	
VINCENNES STEEL CORP.	
VINCENNES, IND.	
Drawn	Checked
DLW	EPE
04/11/98	05/05/98
Approved	Revised
	Δ/29/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH	
KENTUCKY D.O.M. / INDIANA D.O.T.	
DAVIESS COUNTY, KY / SPENCER COUNTY, IND	
PROJ. DOKBD 00101 D01	
Shop Paint SEE GNI	
Edge Distance AS NOTED	Holes: 1/8" Ø (UN)
Contr. No. 672	Sh. 43 .#

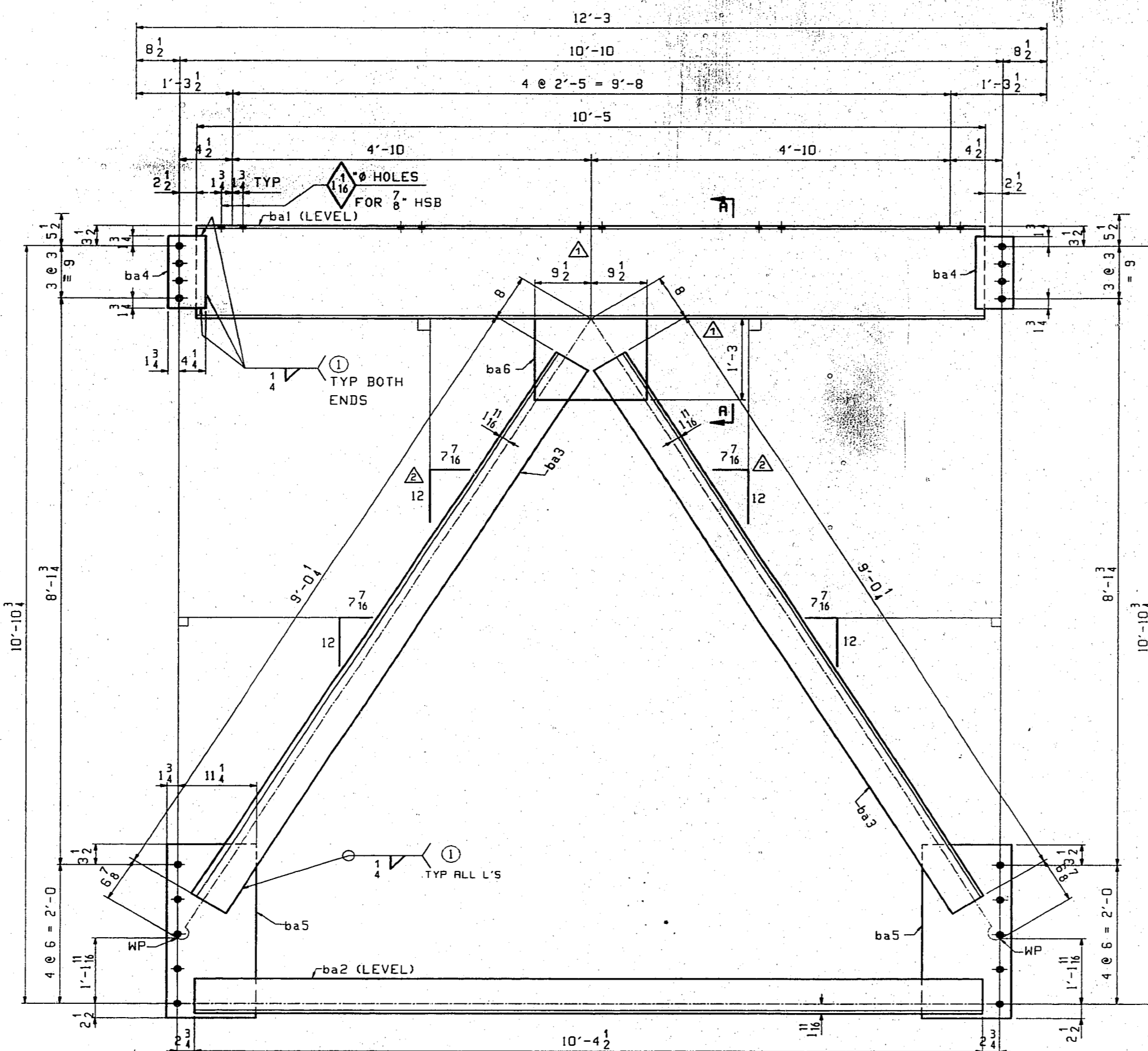
59

Faded Plan

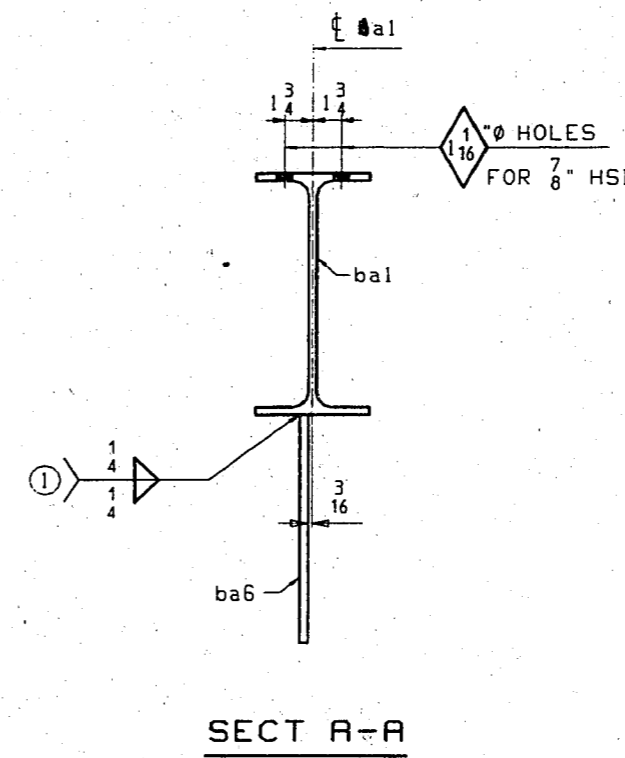


BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		PIER CROSSFRAMES		2	A44		1141
2							
3	M	16x40	10'-5 5/8"	2	az1		4/14
4	L	6x6x 1/2	10'-4 1/8"	2	az2		4/14
5	L	6x6x 1/2	8'-10 1/8"	2	az3		4/13
6	L	6x6x 1/2	9'-1 1/2"	2	az4		4/13
7	PL	6 x 2	1'-0 1/2"	4	az5		4/15
8	PL	13 x 2	2'-5"	4	az6		4/16
9	PL	15 x 2	1'-7"	2	az7		4/17
10							
11							
12							
13							
14							
15							
16							
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24							
25							
26							
27							
28							
29							
30							

ADD BEVELS	PHG/DO
REVISE CENTER GUSSET	PHG/DO
ADD DROP DIM	PHG/DO
CROSSFRAMES	
VINCENNES STEEL CORP.	
VINCENNES, IND	
124	25-58



1 ~ PIER CROSSFRAME ~ A45
PIER IN
(LOOKING UP-STATION)



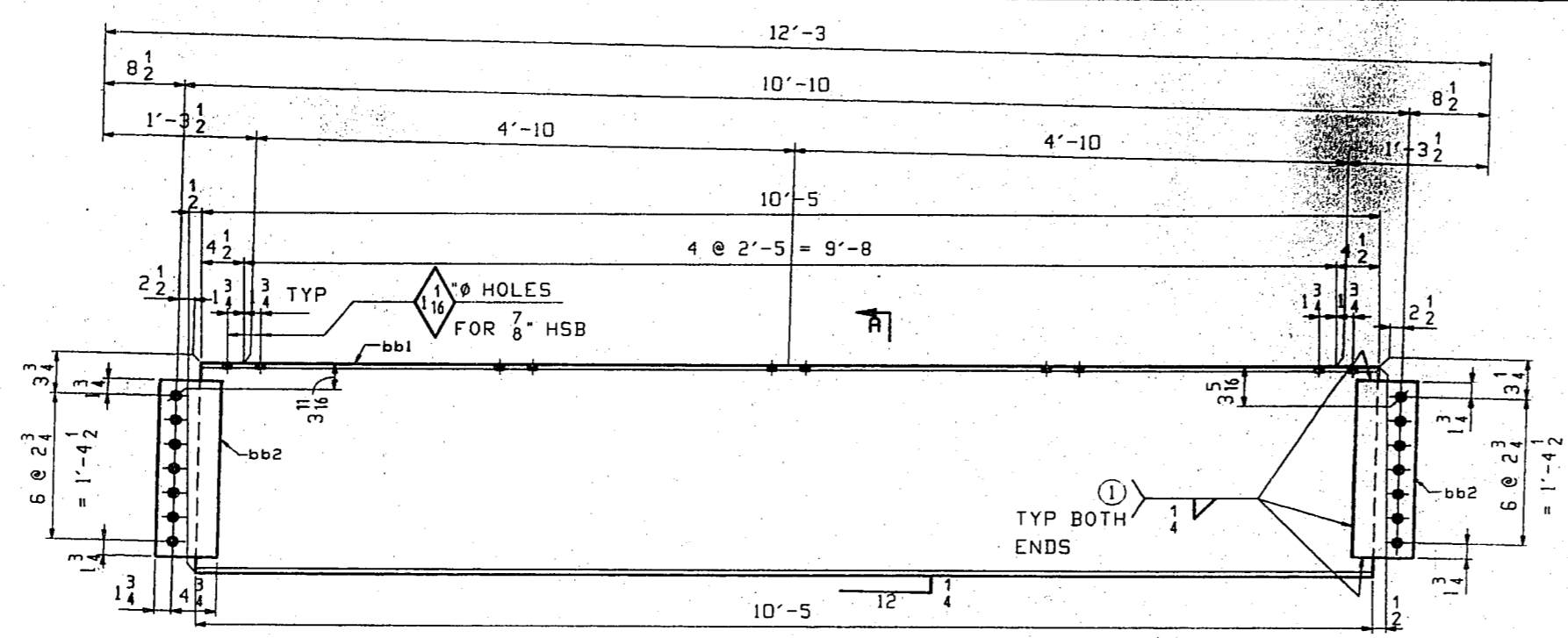
SECT A-A

NOTES:
1. FOR GENERAL NOTES SEE SHEET GNI.
2. ALL MATERIAL TO BE M270 GR50 (U.N.)

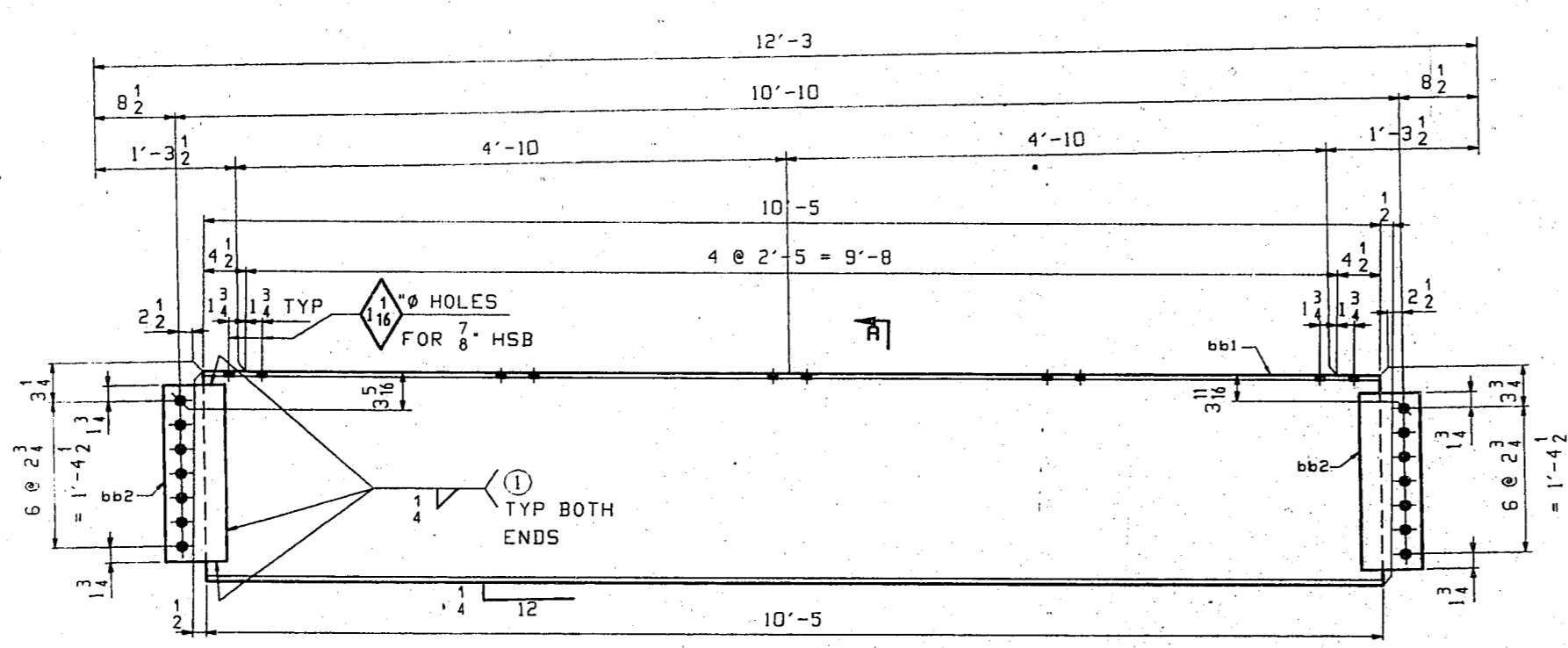
BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1		PIER CROSSFRAME		1	A45	
2						1145
3	W	16x40	10'-5	1	ba1	4/14
4	L	6x6x 1/2	10'-4 1/2	1	ba2	4/12
5	L	6x6x 1/2	9'-0 1/2	2	ba3	4/13
6	PL	6 x 1/2	1'-0 1/2	2	ba4	4/15
7	PL	13 x 1/2	2'-6	2	ba5	4/16
8	PL	15 x 1/2	1'-7	1	ba6	4/17
9						
10						
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29						
30						

ADD BEVELS	PHG/DD
REVISE CENTER GUSSET	PHG/DD
CROSSFRAME	
VINCENNES STEEL CORP.	
VINCENNES, IND.	
Drawn	Checked
DLW	EPE
04/11/98	05/05/98
Approved	Revised
	7/29/98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH	
KENTUCKY D.O.H. / INDIANA D.O.T.	
DAVIESS COUNTY, KY / SPENCER COUNTY, IND	
PROJ. 00K88 0001 DD	
Shop Print SEE GNI	
Edge Distance AS NOTED Notes: 1/2" (MIN)	
Contr. No. 672	Sh. 45 of

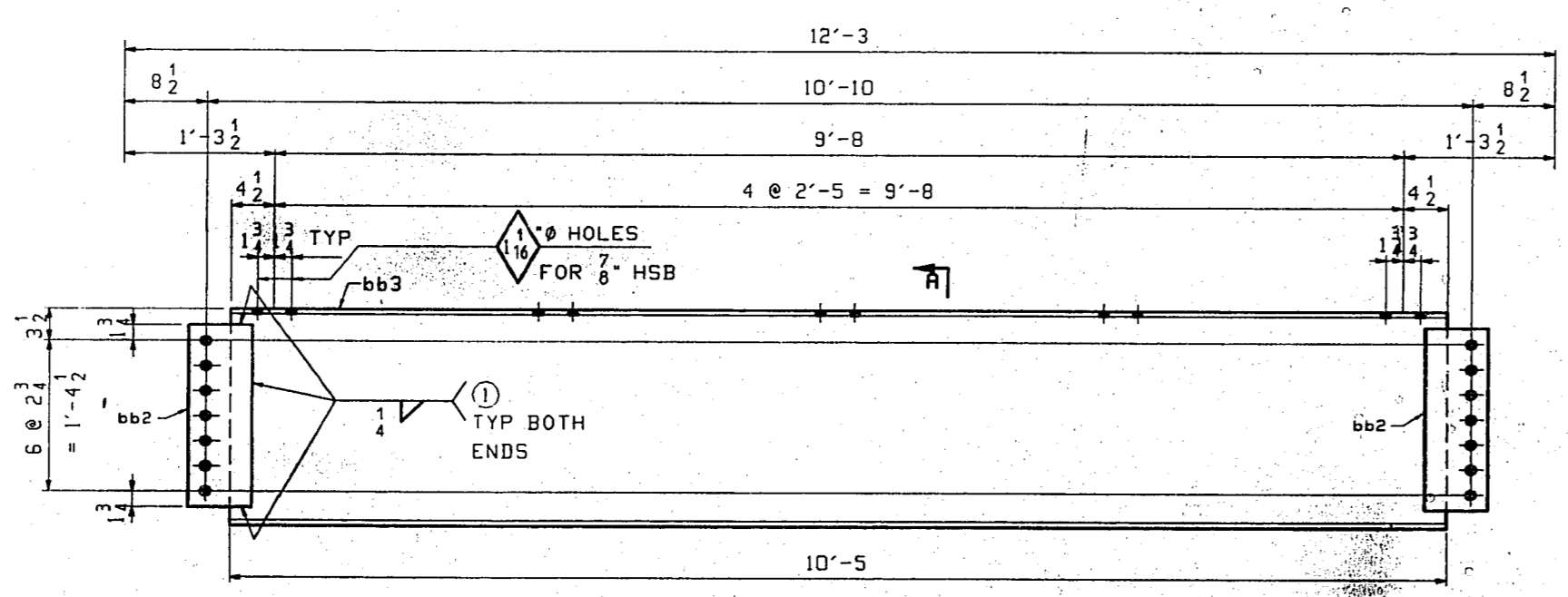
TENSOR 1819



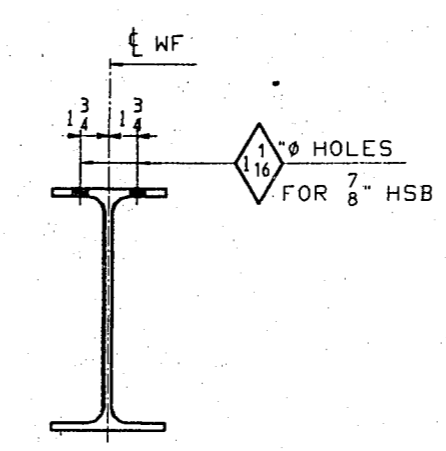
2 ~ DIAPHRAGMS ~ A46
EXP. JOINT SUPPORT @ PIER IN



2 ~ DIAPHRAGMS ~ B46
EXP. JOINT SUPPORT @ PIER IN



1 ~ DIAPHRAGM ~ C46
EXP. JOINT SUPPORT @ PIER IN



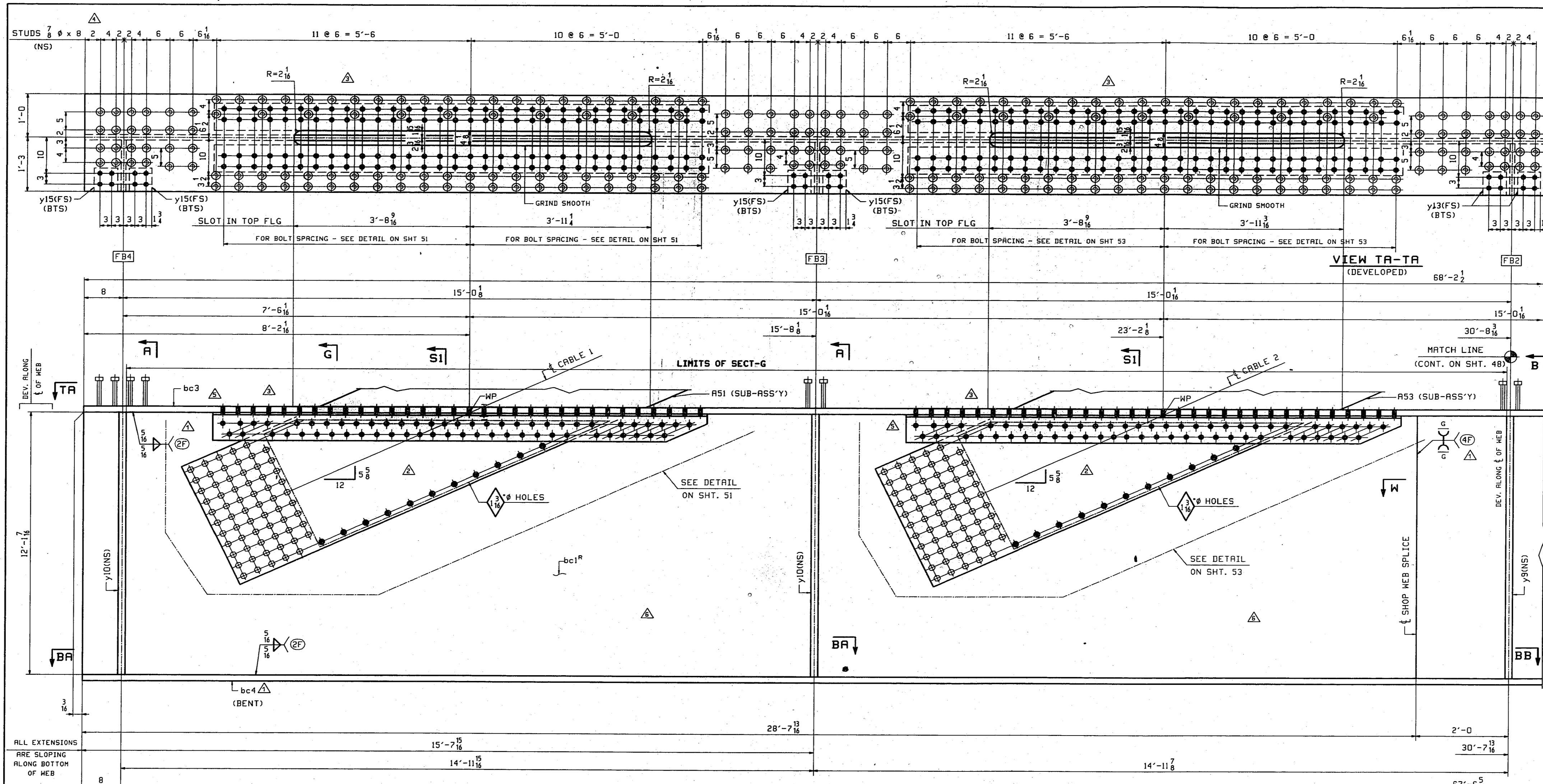
SECT A

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	DIAPHRAGMS			2	A46		748
2							
3	H	24x68	10'-5 1/2	2	bb1		4/28
4	PL	6 1/2 x 2	1'-8	4	bb2		4/28
5							
6	DIAPHRAGMS			2	B46		748
7							
8	H	24x68	10'-5 1/2	2	bb1		4/28
9	PL	6 1/2 x 2	1'-8	4	bb2		4/28
10							
11	DIAPHRAGM			1	C46		745
12							
13	H	24x68	10'-5	1	bb3		4/28
14	PL	6 1/2 x 2	1'-8	2	bb2		4/28
15							
16							
17							
18							
19							
20							
21							
22							
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38							
39							
40							

NOTES:
1. FOR GENERAL NOTES SEE SHEET GNI.
2. ALL MATERIAL TO BE M270 GR50 (U.N.)

DIAPHRAGMS			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLW	EPE		
04/13/98	05/05/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.H. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00XBD 00101 001			
Shop Part SEE GNI			
Edge Distance AS NOTED		Holes 1/4" (U.N.)	
Contr. No.	672	Sh.	46 of 62

SENSOR 1819



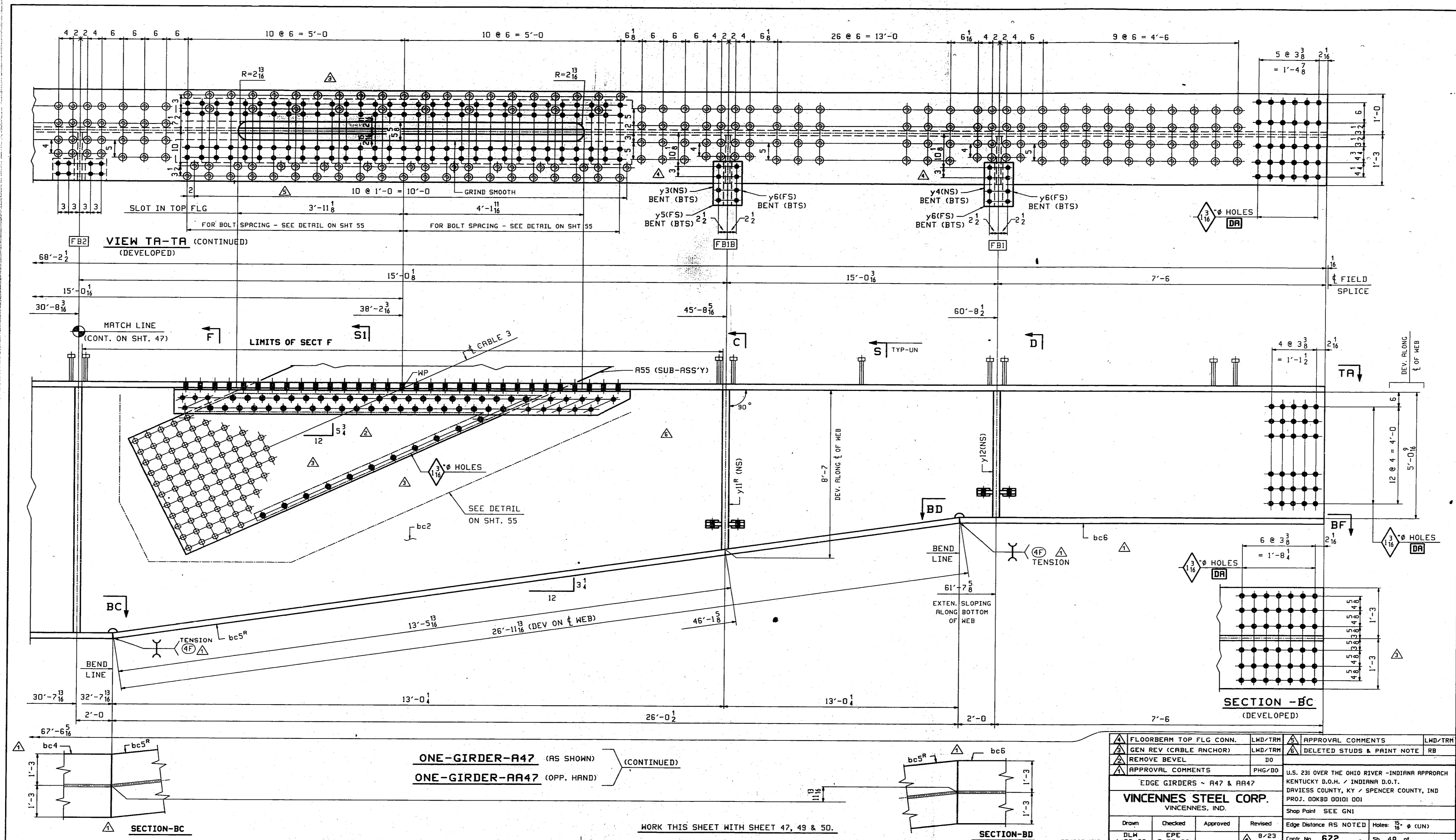
- NOTES:
1. FOR GIRDER STANDARD DETAILS SEE SHT. 21.
 2. FOR GENERAL NOTES SEE SHEET GNI.
 3. ALL MATERIAL TO BE M270 GR50 (UN).
 4. ALL HOLES TO BE DR.
 5. FOR CABLE TO EDGE GIRDER CONNECTIONS SEE SHT. 51 THRU 56.

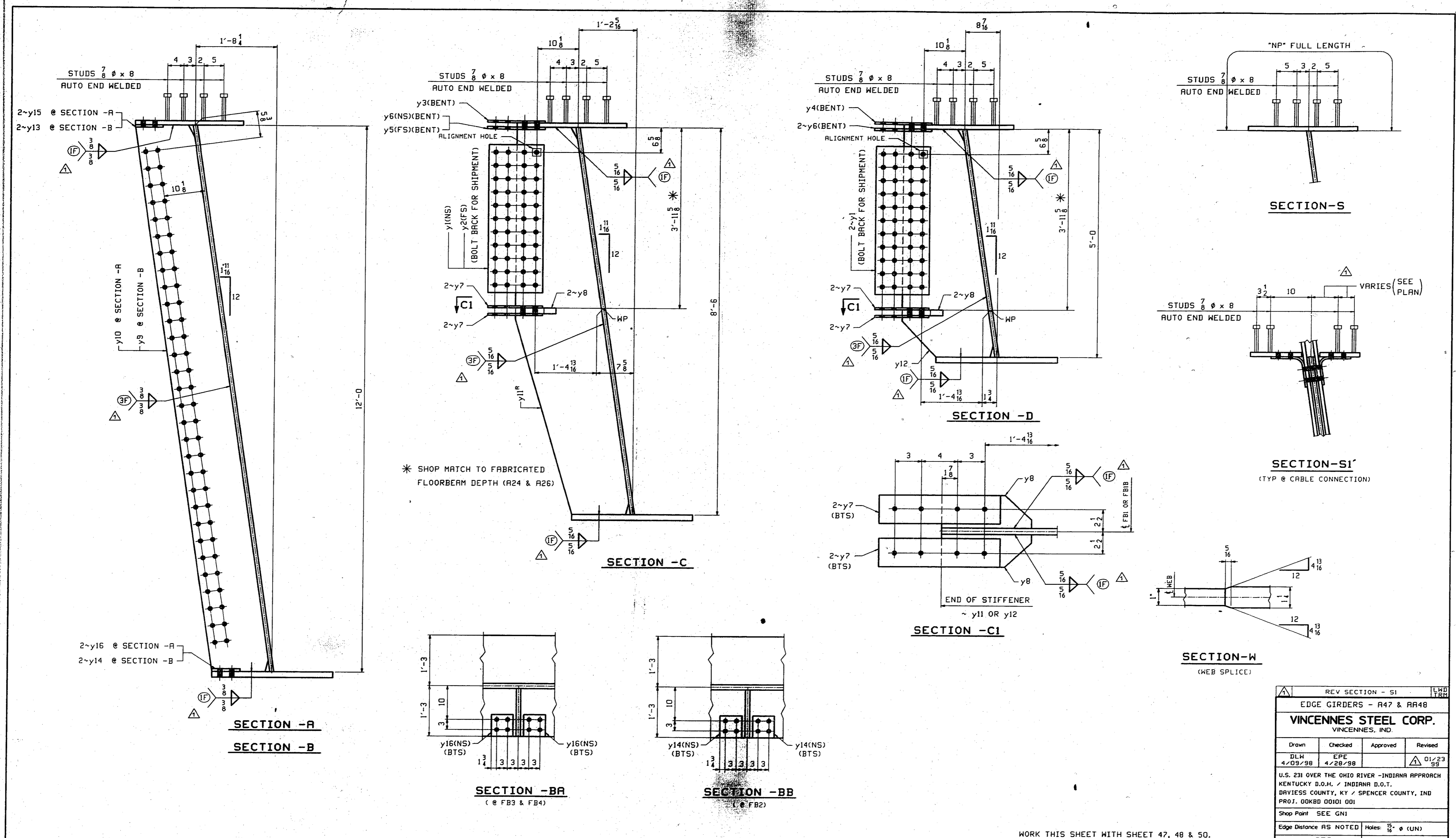
6. MATERIAL NOTED "F2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "P" FREQUENCY.
7. BTS = BOLT TO SHIP.

ONE-GIRDER-AR47 (AS SHOWN)
ONE-GIRDER-AR47 (OPP. HAND)

WORK THIS SHEET WITH SHEET 48, 49 & 50.

DELTED STUDS & PAINT NOTE	RB	GEN REV (CABLE ANCHOR)	LWD/TRM	U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.H. / INDIANA D.O.T. DRIVESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K0K 00001 0001 Shop Point SEE GNI
APPROVAL COMMENTS	LWD/TRM	REMOVE BEVEL	DO	
STUD SPC.	DO	APPROVAL COMMENTS	PHG/DD	
EDGE GIRDERS - AR47 & AR47				Edge Distance AS NOTED
VINCENNES STEEL CORP. VINCENNES, IND.				
Drawn	Checked	Approved	Revised	Holes: 1/2" Ø (UN)
DLH 4/05/98	EPE 4/20/98		8/23/99	Contr. No. 672
				Sh. 47 of 63

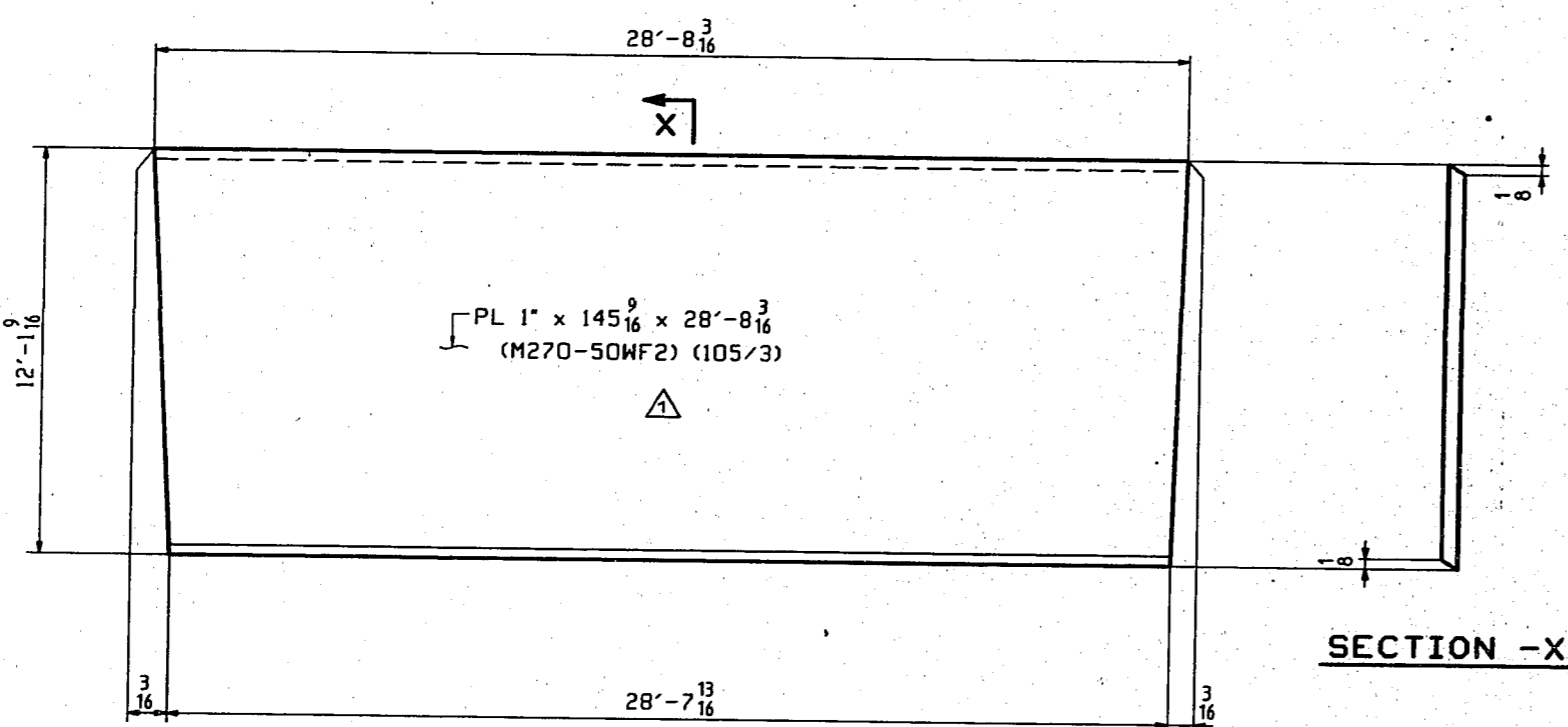




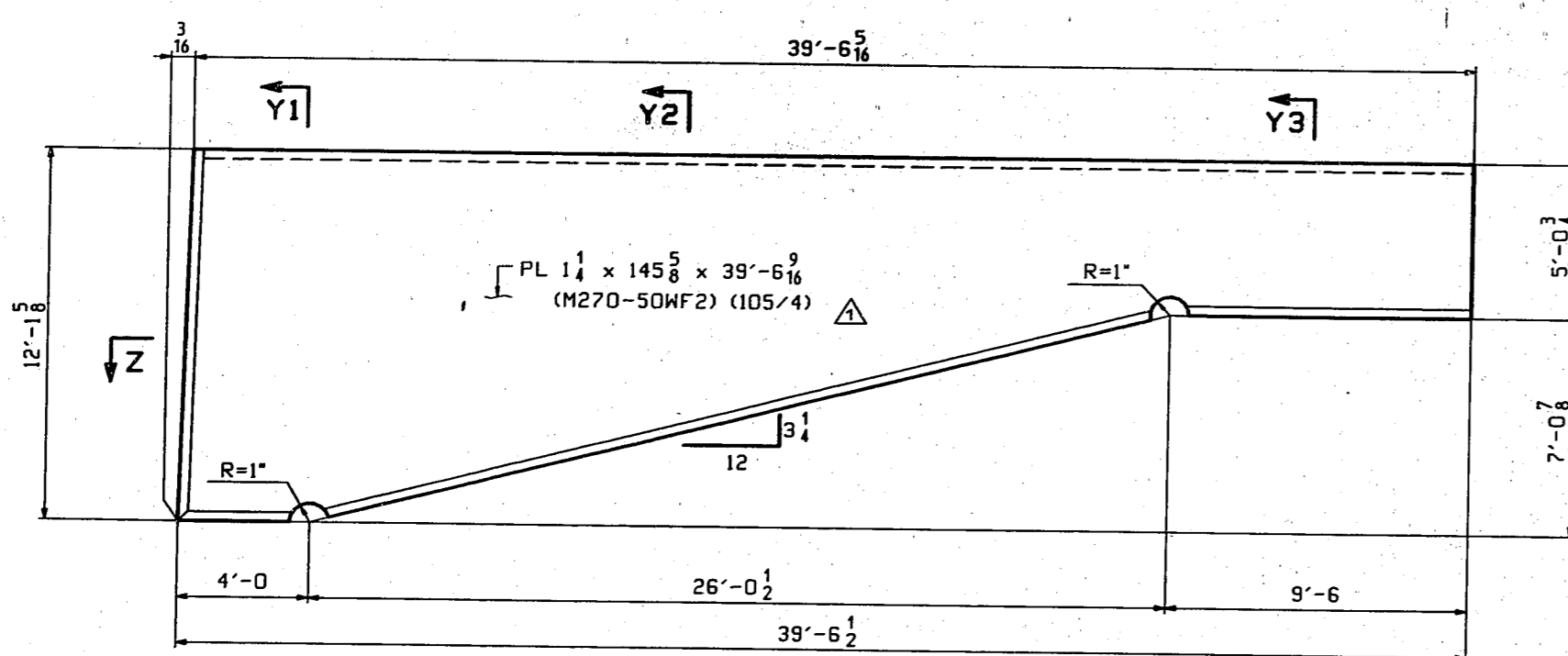
* SHOP MATCH TO FABRICATED FLOORBEAM DEPTH (A24 & A26)

WORK THIS SHEET WITH SHEET 47, 48 & 50.

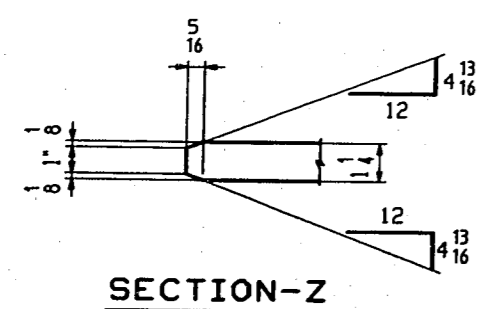
REV SECTION - S1			
EDGE GIRDERS - A47 & A48			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
DLH 4/09/98	EPE 4/28/98		01/23 98
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.M. / INDIANA D.O.T. DAVIESS COUNTY, KY / SPENCER COUNTY, IND PROJ. 00K80 0001 001			
Shop Paint SEE GNI			
Edge Distance AS NOTED		Holes: 1/2" φ (UN)	
Contr. No. 672		Sh. 49 of	



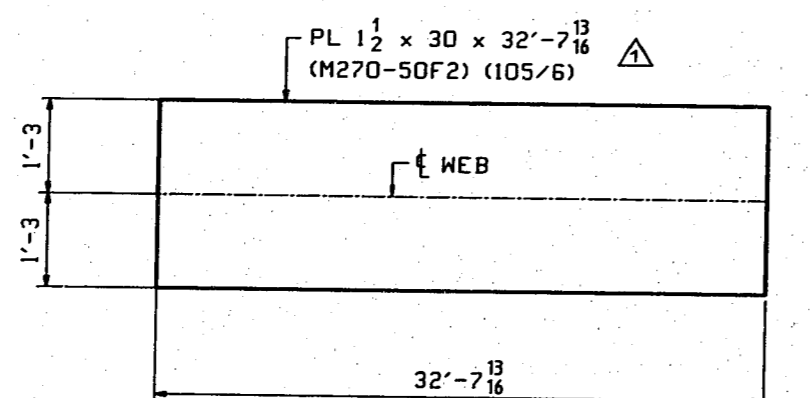
DETAIL OF WEB PL ~ bc1^R
(TOTAL ~ 1 REQ'D)



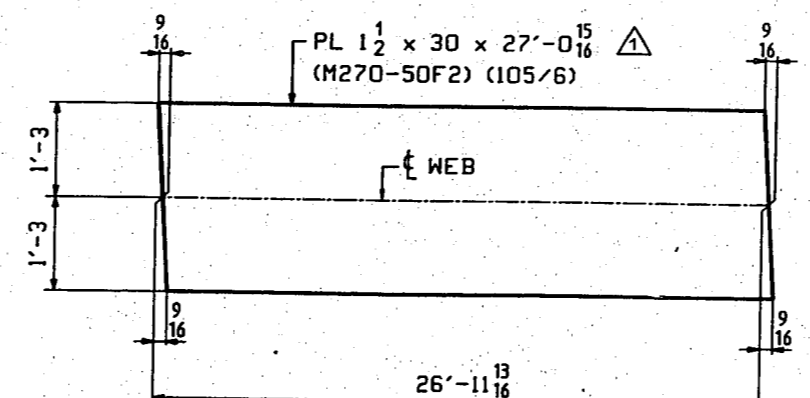
DETAIL OF WEB PL ~ bc2^R
(TOTAL ~ 1 REQ'D)



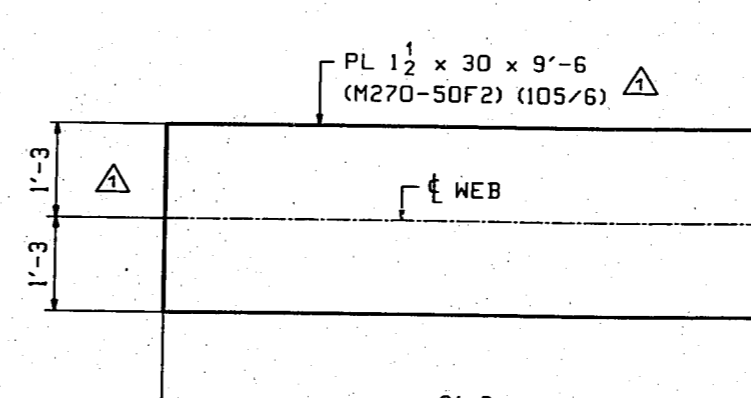
SECTION -Z



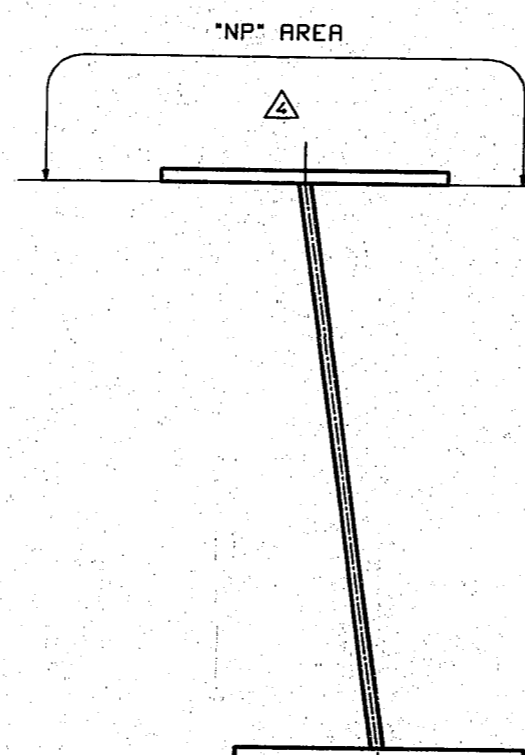
FLAT LAYOUT OF B. FLG PLATE ~ bc4
(TOTAL ~ 1 REQ'D)



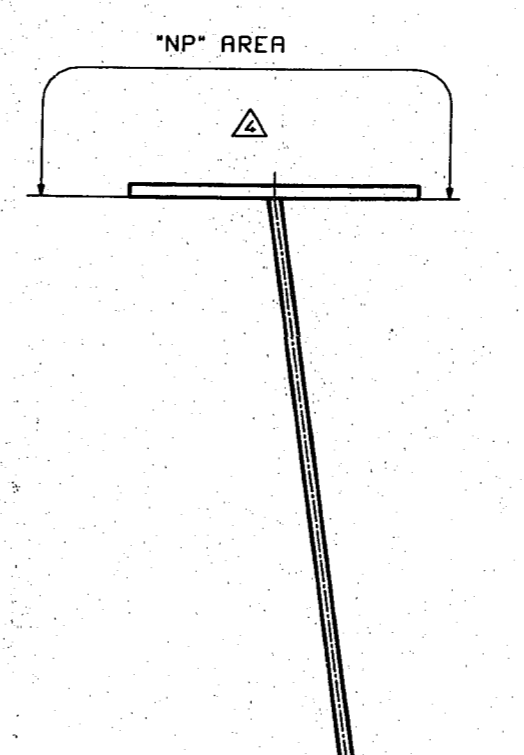
FLAT LAYOUT OF B. FLG PLATE ~ bc5^R
(TOTAL ~ 1 REQ'D)



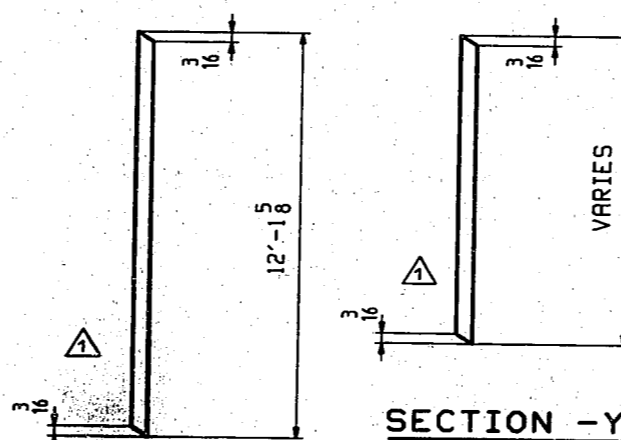
FLAT LAYOUT OF B. FLG PLATE ~ bc6
(TOTAL ~ 1 REQ'D)



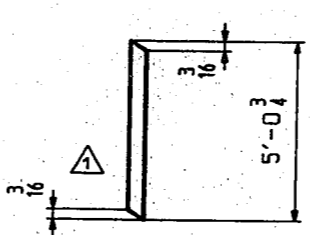
SECTION F



SECTION G



SECTION -Y2



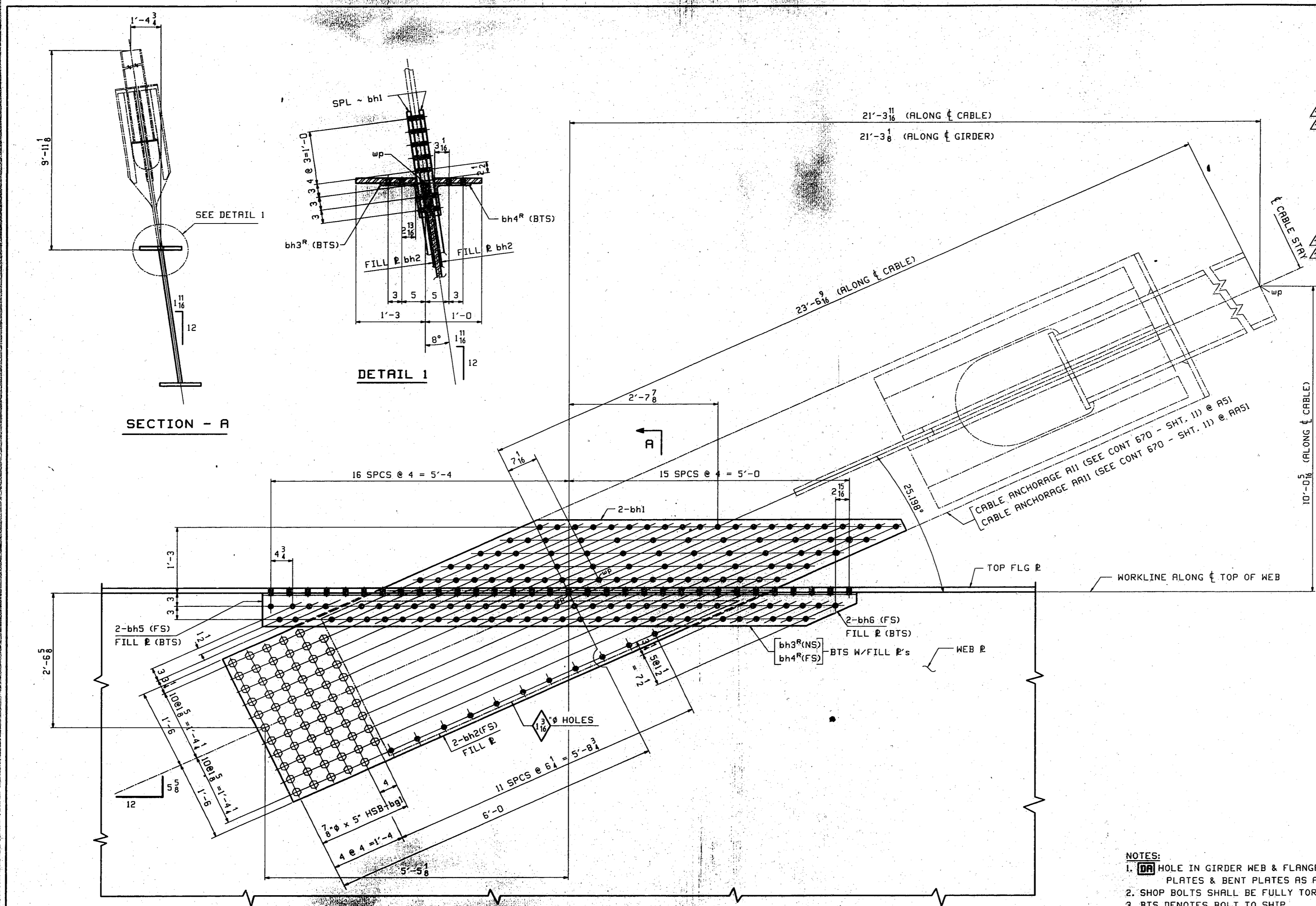
SECTION -Y3

BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	GIRDER			1	RA7		SEE SHEET 47 & 49
2	GIRDER			1	RA47		SEE SHEET 47 & 49
3							
4	PL	145 5/8 x 1	28'-8 3/16	1	bc1 ^R	M270-50M F2	105/3
5	PL	145 5/8 x 1	28'-8 3/16	1	bc1 ^L	M270-50M F2	105/3
6	PL	145 5/8 x 1 1/4	39'-6 5/16	1	bc2 ^R	M270-50M F2	105/4
7	PL	145 5/8 x 1 1/4	39'-6 5/16	1	bc2 ^L	M270-50M F2	105/4
8	PL	27 x 1 1/2	69'-2 1/2	2	bc3	M270-50M F2	105/5
9	PL	30 x 1 1/2	32'-7 1/8	2	bc4	F2	105/6
10							
11	PL	30 x 1 1/2	27'-0 3/8	1	bc5 ^R	F2	105/6
12	PL	30 x 1 1/2	27'-0 3/8	1	bc5 ^L	F2	105/6
13	PL	30 x 1 1/2	9'-6	2	bc6	F2	105/6
14							
15							
16	CABLE BOX 1	SUB-ASS'Y		1	RA51		SEE SHEET 51 (8 RA47)
17	CABLE BOX 2	SUB-ASS'Y		1	RA51		SEE SHEET 51 (8 RA47)
18	CABLE BOX 3	SUB-ASS'Y		1	RA53		SEE SHEET 51 (8 RA47)
19	CABLE BOX 4	SUB-ASS'Y		1	RA53		SEE SHEET 51 (8 RA47)
20	CABLE BOX 5	SUB-ASS'Y		1	RA55		SEE SHEET 51 (8 RA47)
21	CABLE BOX 6	SUB-ASS'Y		1	RA55		SEE SHEET 51 (8 RA47)
22							
23	PL	39 x 2	1'-1 1/2	6	y1	F2	101/11
24	PL	39 x 2	1'-1 1/2	2	y2	M270-50M F2	101/26
25	PL	8 1/2 x 2	1'-1 1/2	2	y3	M270-50M F2	101/26
26	PL	8 1/2 x 2	1'-1 1/2	2	y4	F2	101/26
27	PL	3 1/2 x 2	1'-1 1/2	2	y5	M270-50M F2	101/26
28	PL	3 1/2 x 2	1'-1 1/2	6	y6	F2	101/26
29	PL	3 1/2 x 2	1'-1 1/2	16	y7	F2	101/26
30	PL	3 1/2 x 1 1/2	10	8	y8	F2	105/2
31							
32	PL	14 1/2 x 1	12'-3 1/8	2	y9	M270-50M F2	105/9
33	PL	14 1/2 x 1	12'-3 1/8	4	y10	M270-50M F2	105/9
34	PL	28 1/2 x 1/2	8'-6 1/8	1	y11 ^R	M270-50M F2	108/10
35	PL	28 1/2 x 1/2	8'-6 1/8	1	y11 ^L	M270-50M F2	108/10
36	PL	22 1/2 x 1/2	5'-0	2	y12	F2	108/11
37							
38	PL	7 x 8	6	4	y13	M270-50	102/20
39	PL	7 x 8	6	4	y14	F2	102/21
40	PL	7 x 8	6	8	y15	F2	103/25
41	PL	7 x 8	6	8	y16	F2	103/26
42							
43	STUD	1/2"	8	862	ab4	RD8	5/12
44							
45							
46							
47							
48							
49							
50							

REV. PRINT NOTES & STUDS	RB
APPROVAL COMMENTS	LHD TRM
FIX TOTAL WEIGHT / STUD COUNT	LHD TRM
APPROVAL COMMENTS	PHG / DO
EDGE GIRDERS - R47 & RA47	
VINCENNES STEEL CORP. VINCENNES, IND.	
Drawn	Checked
4/28/88	EPE
4/28/88	4/28/88
Approved	Revised
	8-23
	89
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH	
KENTUCKY D.O.H. / INDIANA D.O.T.	
DAVIESS COUNTY, KY / SPENCER COUNTY, IND	
PROJ. ODKBD 0001 001	
Shop Point SEE GN1	
Edge Distance AS NOTED	Holes: 15/16" Ø (UN)
Contr. No. 672	Sh. 50 of

WORK THIS SHEET WITH SHEET 47, 48 & 49.

TENSOR 1819

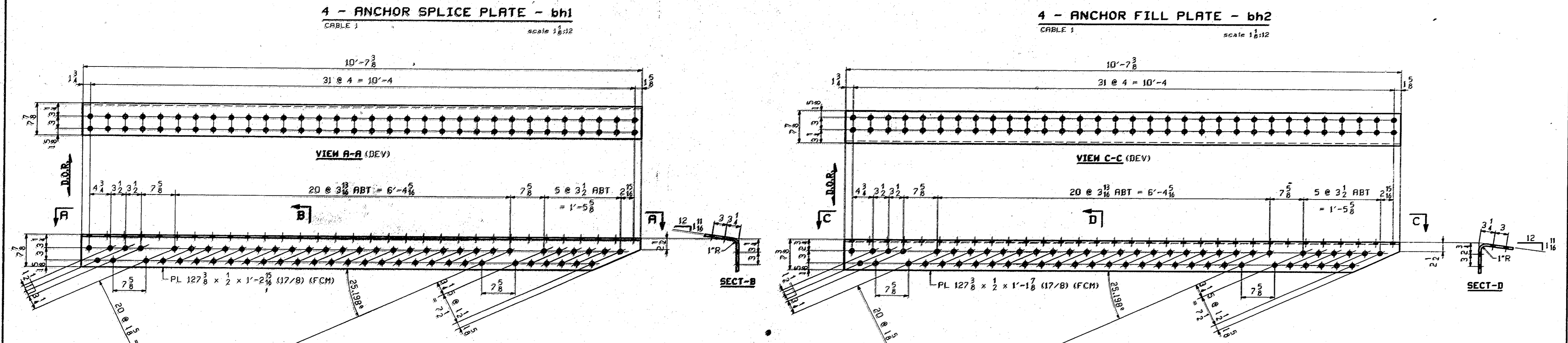
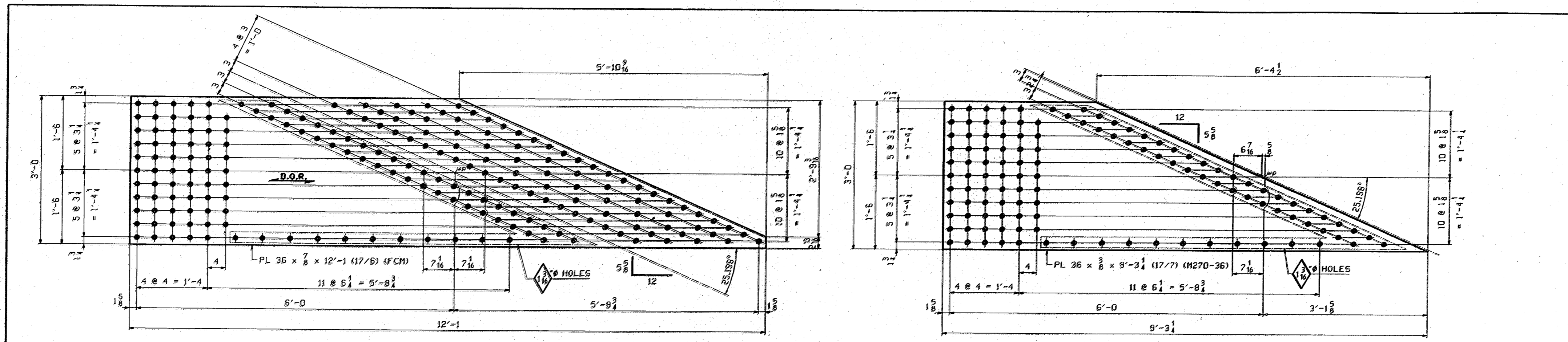


BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		CABLE ANCHOR ASSEMBLY		1	AS1		SHOWN 4292
2	PL	36 x 6	12'-1	2	bh1	F2	17/8
3	PL	36 x 6	9'-3	2	bh2	A270-36	17/8
4	PL	127 3/8 x 2	1'-2 5/8	1	bh3	F2	(MENT) 17/8
5	PL	127 3/8 x 2	1'-1 5/8	1	bh4	F2	(MENT) 17/8
6	PL	6 6 x 1 1/4	2'-10 1/4	2	bh6	A270-36	17/8
7	PL	6 6 x 1 1/4	1'-9 1/4	2	bh5	A270-36	17/10
8	HSB	7 8	5	64	bg1	A325-1	8/2
9	HRM	8 8		64	F436		8/6
10							
11		CABLE ANCHOR ASSEMBLY		1	AA51		OPP. HAND 4292
12	PL	36 x 6	12'-1	2	bh1	F2	17/8
13	PL	36 x 6	9'-3	2	bh2	A270-36	17/8
14	PL	127 3/8 x 2	1'-2 5/8	1	bh3	F2	(MENT) 17/8
15	PL	127 3/8 x 2	1'-1 5/8	1	bh4	F2	(MENT) 17/8
16	PL	6 6 x 1 1/4	2'-10 1/4	2	bh6	A270-36	17/8
17	PL	6 6 x 1 1/4	1'-9 1/4	2	bh5	A270-36	17/10
18	HSB	7 8	5	64	bg1	A325-1	8/2
19	HRM	8 8		64	F436		8/6
20							
21							
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CABLE ANCHOR ASSEMBLY - AS1 (AS SHOWN)
 @ GIRDER A47 - CABLE ANCHOR 1
CABLE ANCHOR ASSEMBLY - AA51 (OPP. HAND)
 @ GIRDER AA47 - CABLE ANCHOR 1

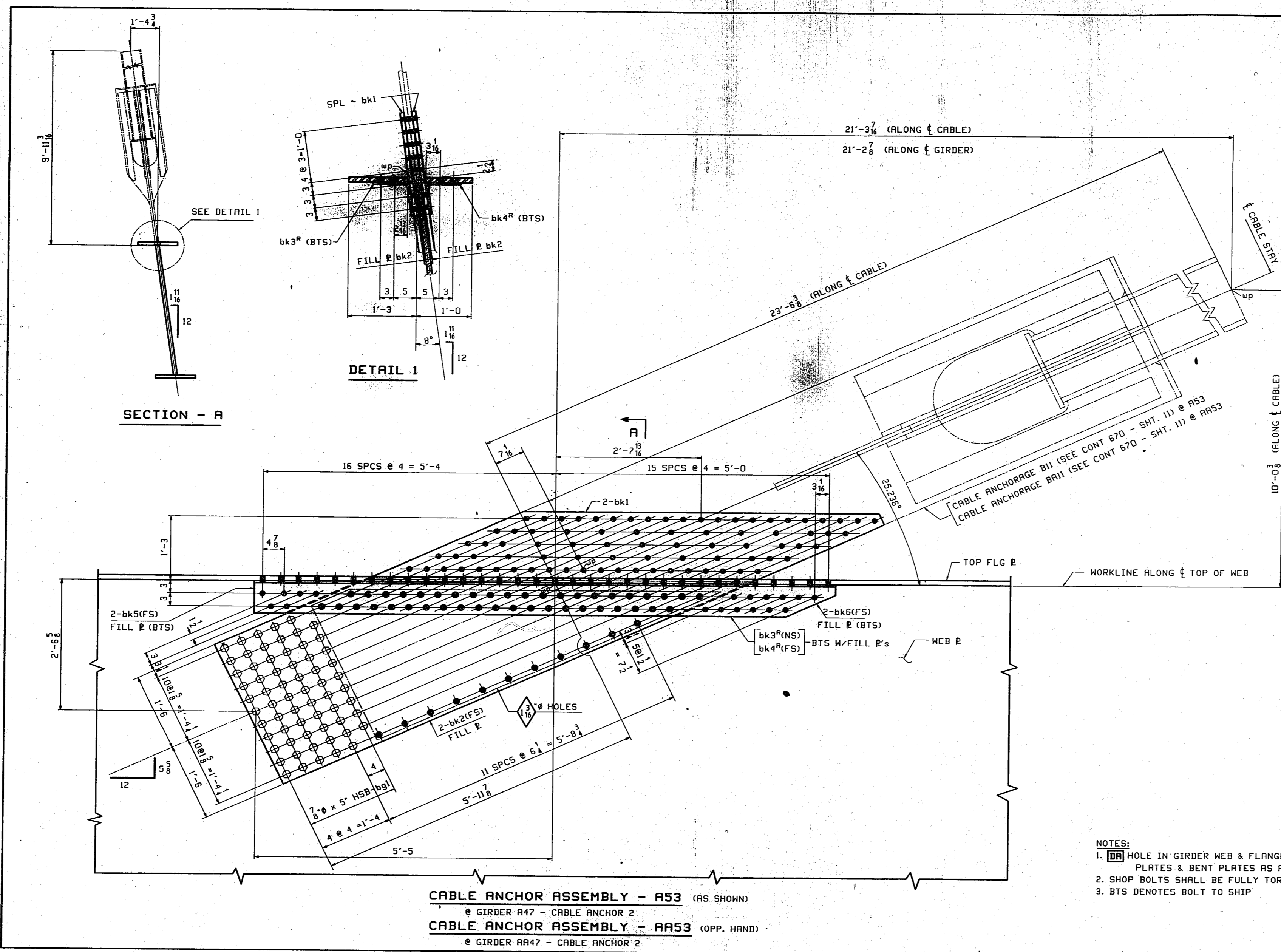
- NOTES:
 1. [DA] HOLE IN GIRDER WEB & FLANGE USING SPLICE PLATES & BENT PLATES AS A TEMPLATE
 2. SHOP BOLTS SHALL BE FULLY TORQUED.
 3. BTS DENOTES BOLT TO SHIP

CABLE ANCHOR ASSEMBLY - AS1 & AA51
VINCENNES STEEL CORP.
 VINCENNES, IND.
 Drawn: LWB 12/22/98
 Checked: TRM 01/22/99
 Approved: [Signature]
 Revised: [Signature] 2-25-99 LWB/TRM
 U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.M. / INDIANA D.O.T.
 DAVIESS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. 00KBB 0001 001
 Shop Point: SEE GNI
 Edge Distance: AS NOTED
 Holes: 1/8" @ (UN)
 Contr. No. 672
 Sh. 51 of 67



- NOTES:
- ALL MATERIAL TO BE M270-50 (UN).
 - ALL HOLES THIS SHEET.
 - SEE SHEET GNI FOR GENERAL NOTES.
 - B.O.R.** DENOTES DIRECTION OF MILL ROLLING.

CABLE ANCHOR ASSEMBLY - ASI & ASI			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
LWD	TRM		2-25-99
12/22/98	01/21/99		LWD/TRM
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. OOKBD ODOI DDI			
Shop Part SEE GNI			
Edge Distance AS NOTED		Holes 1/2" Ø (UN)	
Contr. No. 672		Sh. 52 of 68	

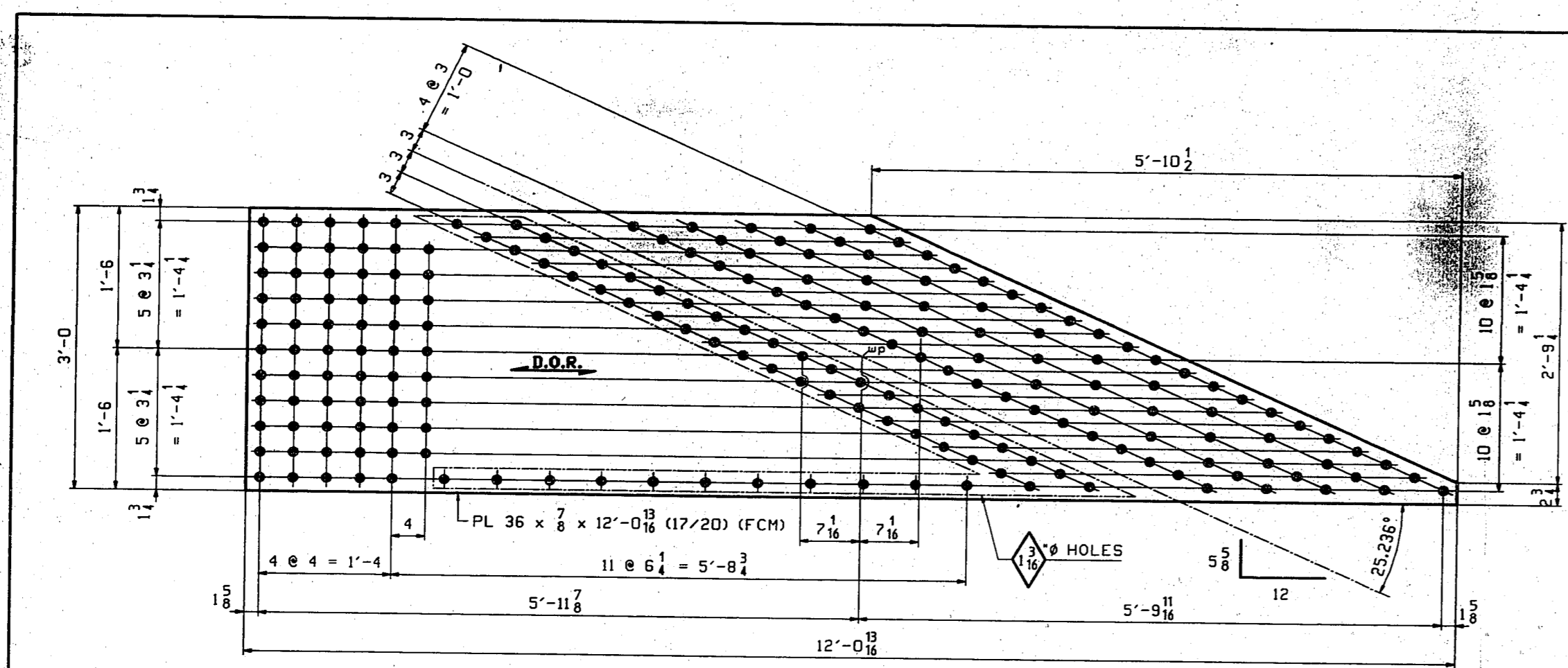


BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		CABLE ANCHOR ASSEMBLY		1	A53		SHOW 4289
2	PL	36 x 6	12'-0 ¹¹ / ₁₆	2	bk1	F2	12/20
3	PL	36 x 6	9'-3 ³ / ₈	2	bk2	A570-36	12/21
4	PL	127 ⁷ / ₈ x 2	1'-2 ¹ / ₂	1	bk3 ^R	F2 (BENT)	12/22
5	PL	127 ⁷ / ₈ x 2	1'-1 ¹ / ₂	1	bk4 ^R	F2 (BENT)	12/22
6	PL	6 ⁷ / ₈ x 1 ¹ / ₄	2'-11	2	bk5	A570-36	12/23
7	PL	6 ⁷ / ₈ x 1 ¹ / ₄	1'-9 ³ / ₈	2	bk5	A570-36	12/24
8	HSB	7/8	5	64	bg1	A325-1	3/2
9	HRM	7/8	5	64	F436		3/2
10							
11		CABLE ANCHOR ASSEMBLY		1	AA53		OPP. HAND 4289
12	PL	36 x 6	12'-0 ¹¹ / ₁₆	2	bk1	F2	12/20
13	PL	36 x 6	9'-3 ³ / ₈	2	bk2	A570-36	12/21
14	PL	127 ⁷ / ₈ x 2	1'-2 ¹ / ₂	1	bk3 ^L	F2 (BENT)	12/22
15	PL	127 ⁷ / ₈ x 2	1'-1 ¹ / ₂	1	bk4 ^L	F2 (BENT)	12/22
16	PL	6 ⁷ / ₈ x 1 ¹ / ₄	2'-11	2	bk5	A570-36	12/23
17	PL	6 ⁷ / ₈ x 1 ¹ / ₄	1'-9 ³ / ₈	2	bk5	A570-36	12/24
18	HSB	7/8	5	64	bg1	A325-1	3/2
19	HRM	7/8	5	64	F436		3/2
20							
21							
22							
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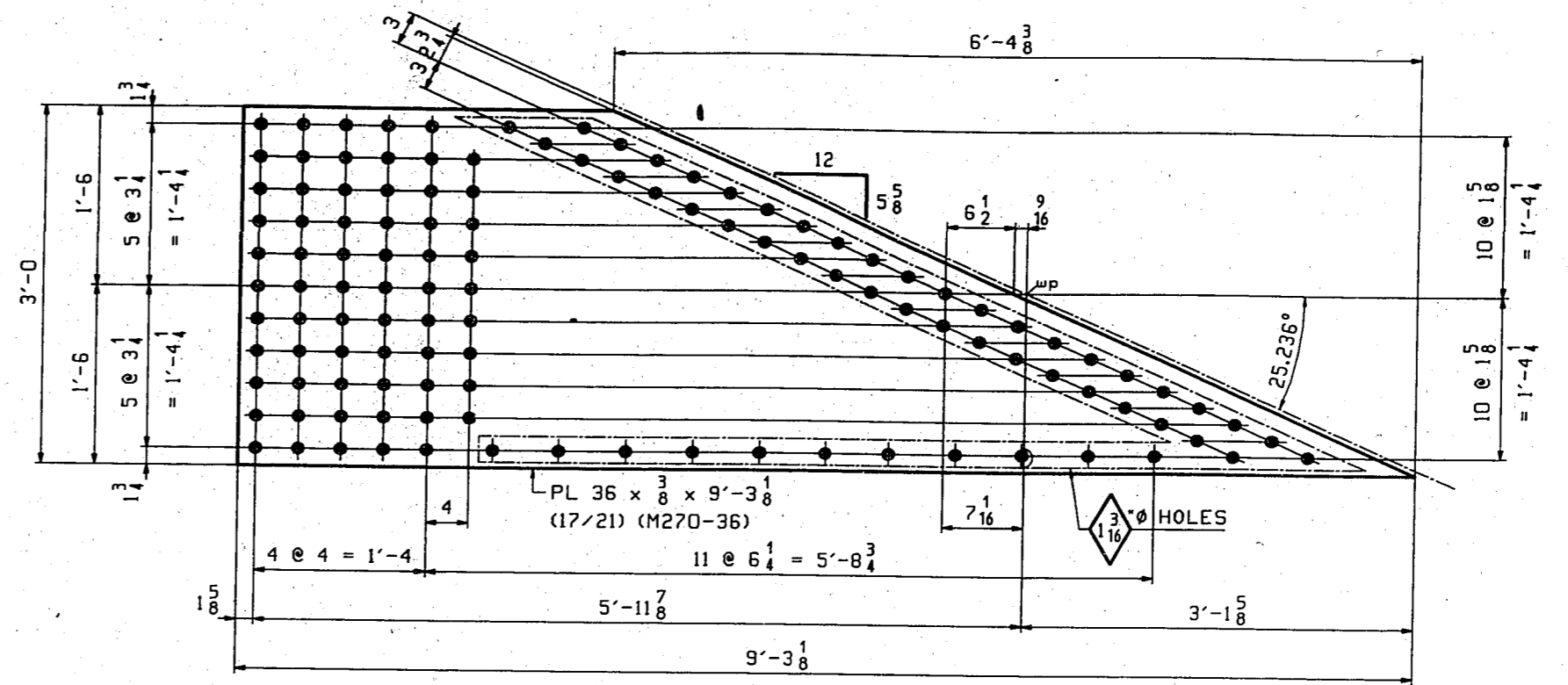
CABLE ANCHOR ASSEMBLY - A53 & AA53
VINCENNES STEEL CORP.
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
LWB	TRM		2-25-99
01/05/99	01/22/99		LWB/TRM

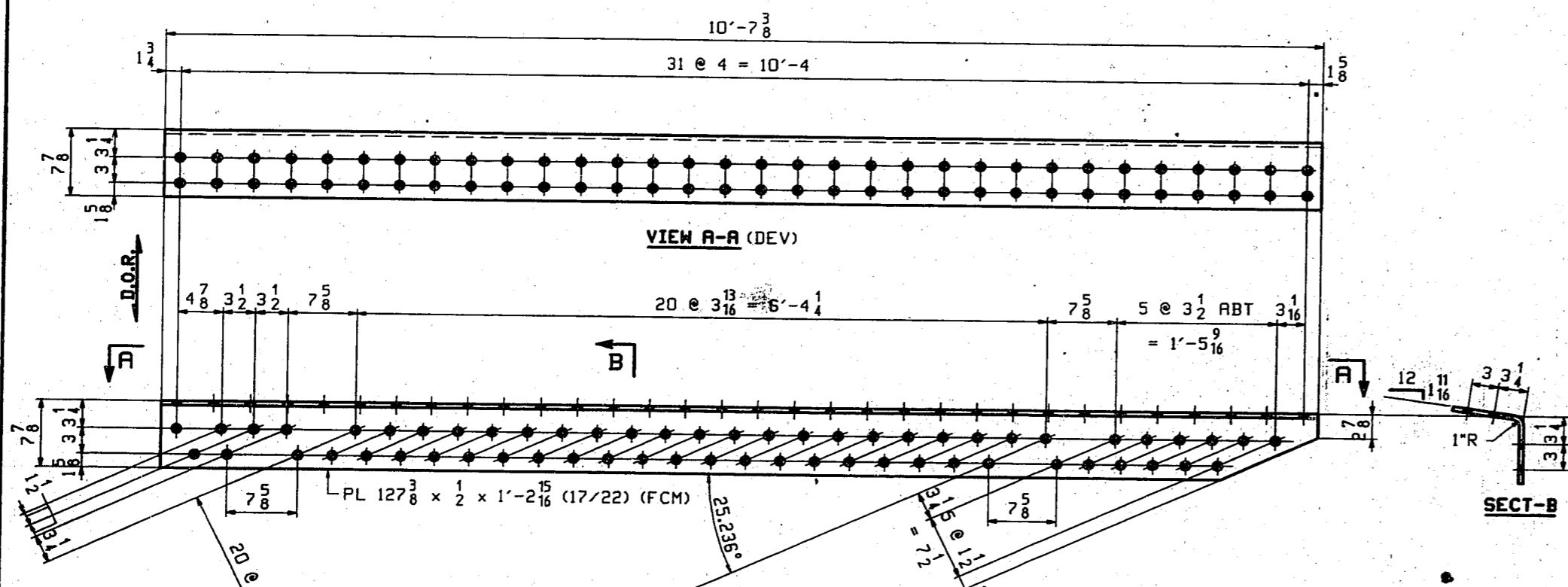
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.M. / INDIANA D.O.T.
 DRAVIESS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. ODKBD 00101 001
 Shop Print SEE GNI
 Edge Distance AS NOTED Holes: 15/16" (LUN)
 Contr. No. 672 Sh. 53 of 67



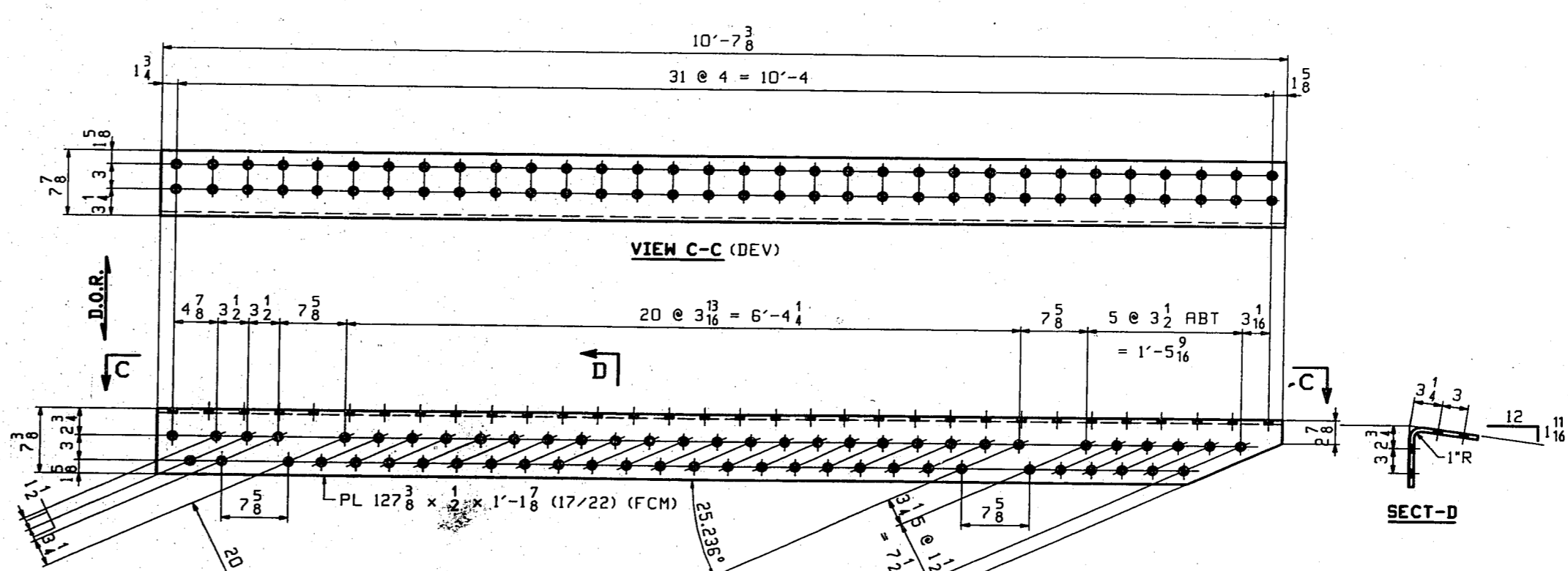
4 - ANCHOR SPLICE PLATE - bk1
 CABLE 2
 scale 1 1/8":12



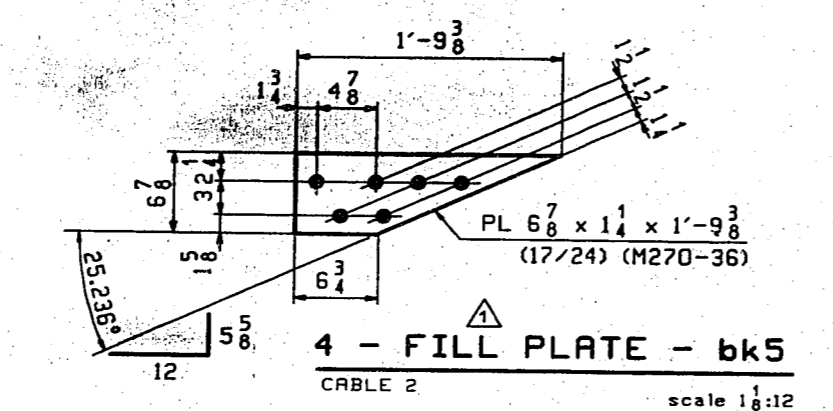
4 - ANCHOR FILL PLATE - bk2
 CABLE 2
 scale 1 1/8":12



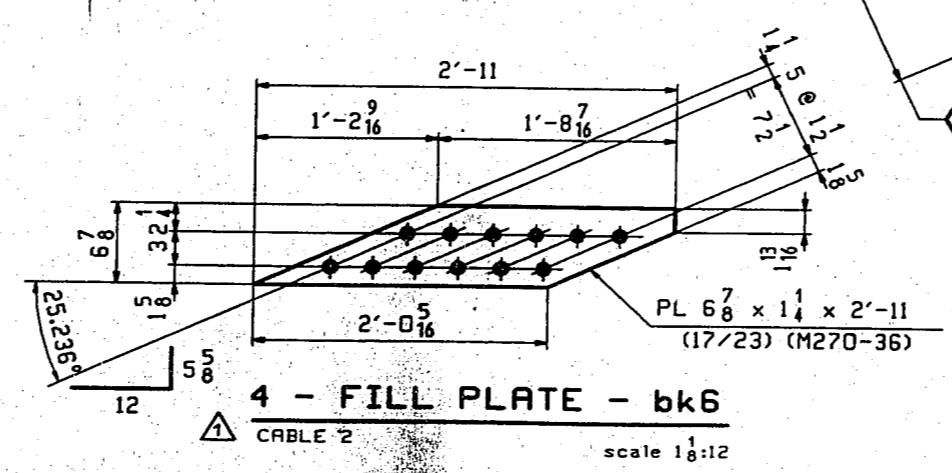
1 - BENT PLATE - bk3^R (AS SHOWN)
1 - BENT PLATE - bk3^L (OPP HAND)
 CABLE 2
 scale 1 1/8":12



1 - BENT PLATE - bk4^R (AS SHOWN)
1 - BENT PLATE - bk4^L (OPP HAND)
 CABLE 2
 scale 1 1/8":12



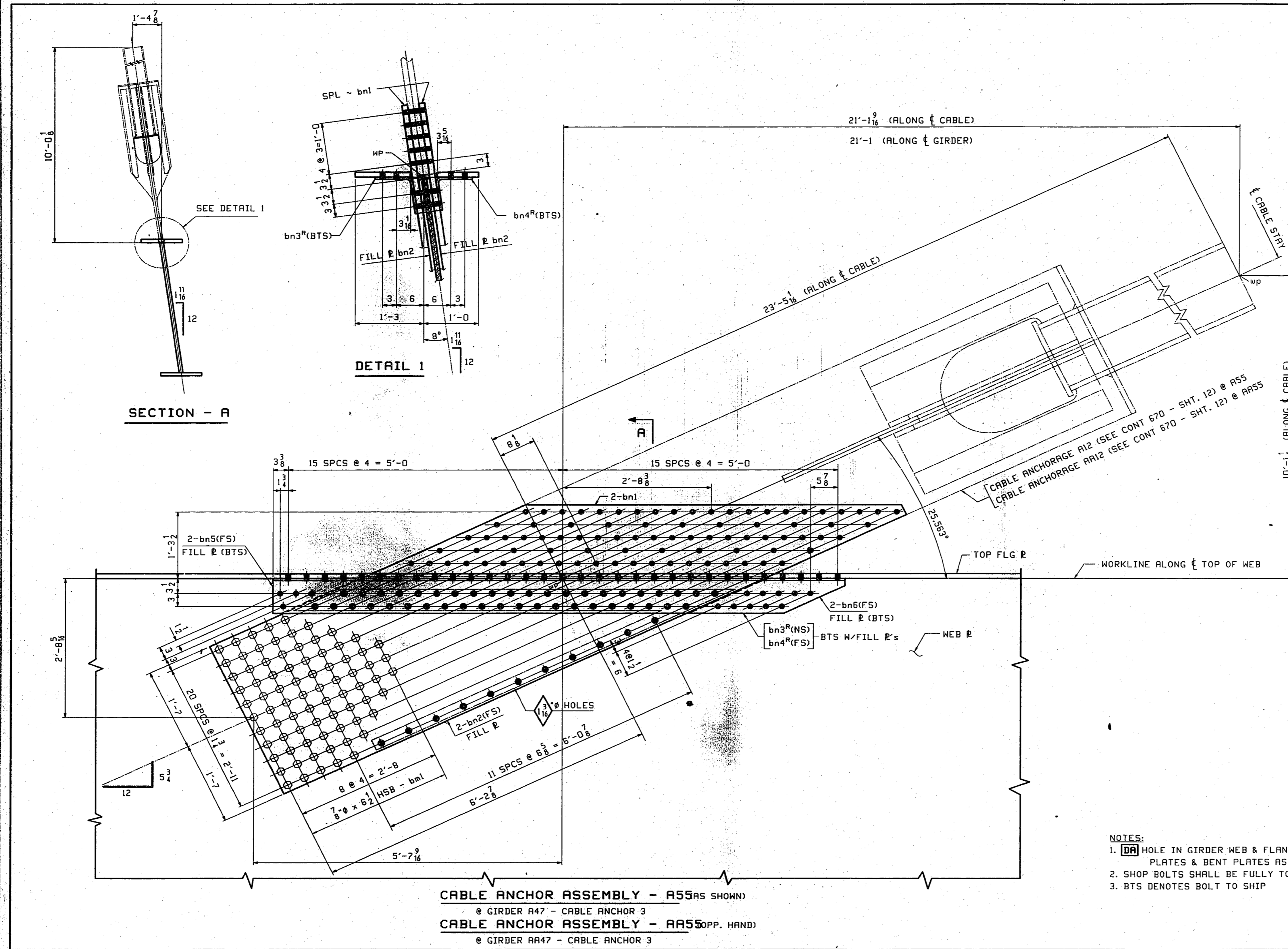
4 - FILL PLATE - bk5
 CABLE 2
 scale 1 1/8":12



4 - FILL PLATE - bk6
 CABLE 2
 scale 1 1/8":12

- NOTES:**
1. ALL MATERIAL TO BE M270-50 (UN).
 2. **DR** ALL HOLES THIS SHEET.
 3. SEE SHEET GNI FOR GENERAL NOTES.
 4. **D.O.R.** DENOTES DIRECTION OF MILL ROLLING.

CABLE ANCHOR ASSEMBLY - A53 & A53			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
LWB	TRM		2-25-99
12/22/98	D1/22/99		LWB/TRM
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
DAVIESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. DOKB0 D0101 D01			
Shop Point	SEE GNI		
Edge Distance AS NOTED	Notes: 15' φ (UN)		
Contr. No. 672	Sh. 54 of 70		



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		CABLE ANCHOR ASSEMBLY		1	A55		AS SHOWN 6632
2	PL	38 x 1 1/4	12'-6 3/8	2	bn1	F2	18/8
3	PL	38 x 3/8	9'-7 1/8	2	bn2	A570-36	18/7
4	PL	125 x 1/2	1'-3 1/4	1	bn3 ^R	F2	(BENT) 18/8
5	PL	125 x 1/2	1'-2 1/4	1	bn4 ^R	F2	(BENT) 18/8
6	PL	7 1/2 x 1 1/8	2'-10	2	bn5	A570-36	18/9
7	PL	7 1/2 x 1 1/8	1'-5 1/4	2	bn5	A570-36	18/10
8	HSB	7/8 x 6	62	79	bn1	A325-1	8/4
9	HRH	8 x 8	62	79	F436		8/6
10							
11		CABLE ANCHOR ASSEMBLY		1	A55		OPP. HAND 6632
12	PL	38 x 1 1/4	12'-6 3/8	2	bn1	F2	18/8
13	PL	38 x 3/8	9'-7 1/8	2	bn2	A570-36	18/7
14	PL	125 x 1/2	1'-3 1/4	1	bn3 ^R	F2	(BENT) 18/8
15	PL	125 x 1/2	1'-2 1/4	1	bn4 ^R	F2	(BENT) 18/8
16	PL	7 1/2 x 1 1/8	2'-10	2	bn5	A570-36	18/9
17	PL	7 1/2 x 1 1/8	1'-5 1/4	2	bn5	A570-36	18/10
18	HSB	7/8 x 6	62	79	bn1	A325-1	8/4
19	HRH	8 x 8	62	79	F436		8/6
20							
21							
22							
23							
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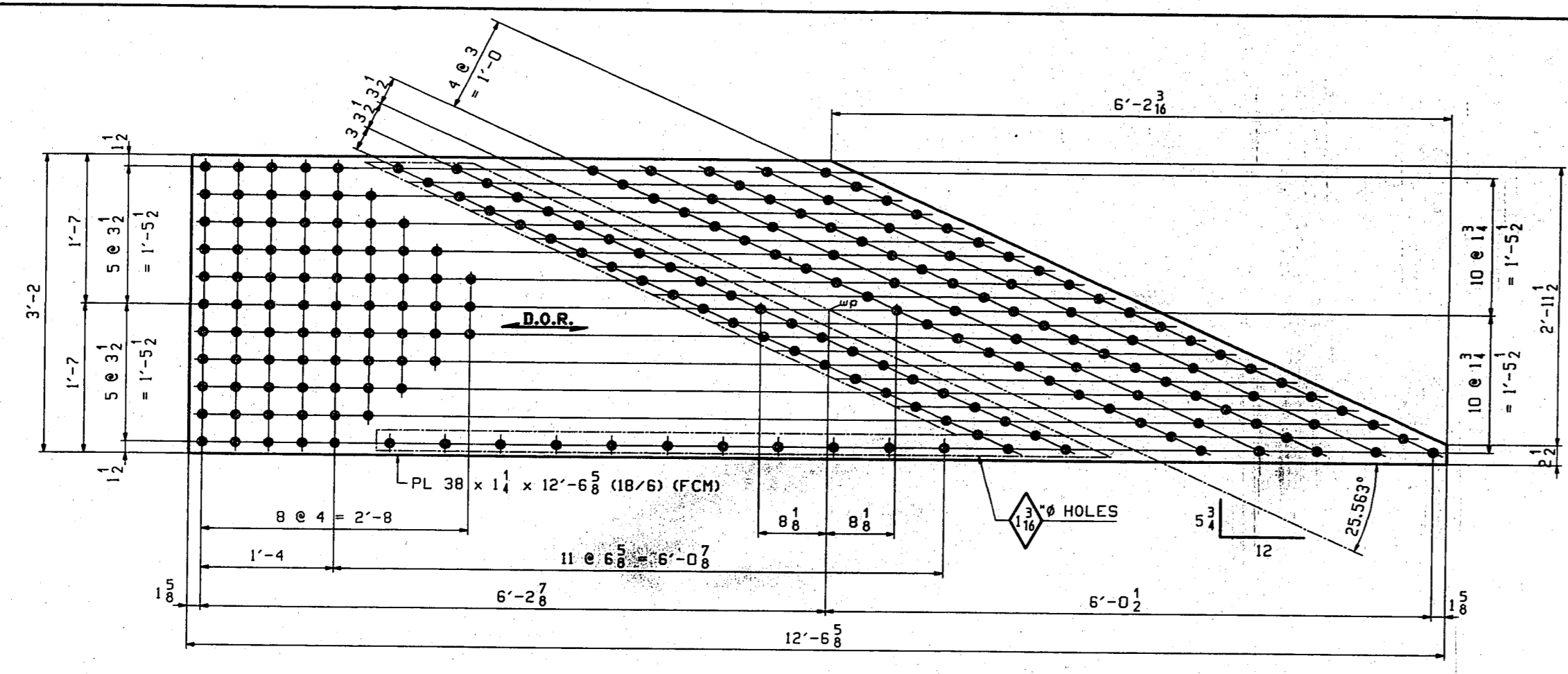
- NOTES:
 1. [Symbol] HOLE IN GIRDER WEB & FLANGE USING SPLICE PLATES & BENT PLATES AS A TEMPLATE
 2. SHOP BOLTS SHALL BE FULLY TORQUED.
 3. BTS DENOTES BOLT TO SHIP

CABLE ANCHOR ASSEMBLY - A55 & A55S
VINCENNES STEEL CORP.
 VINCENNES, IND.

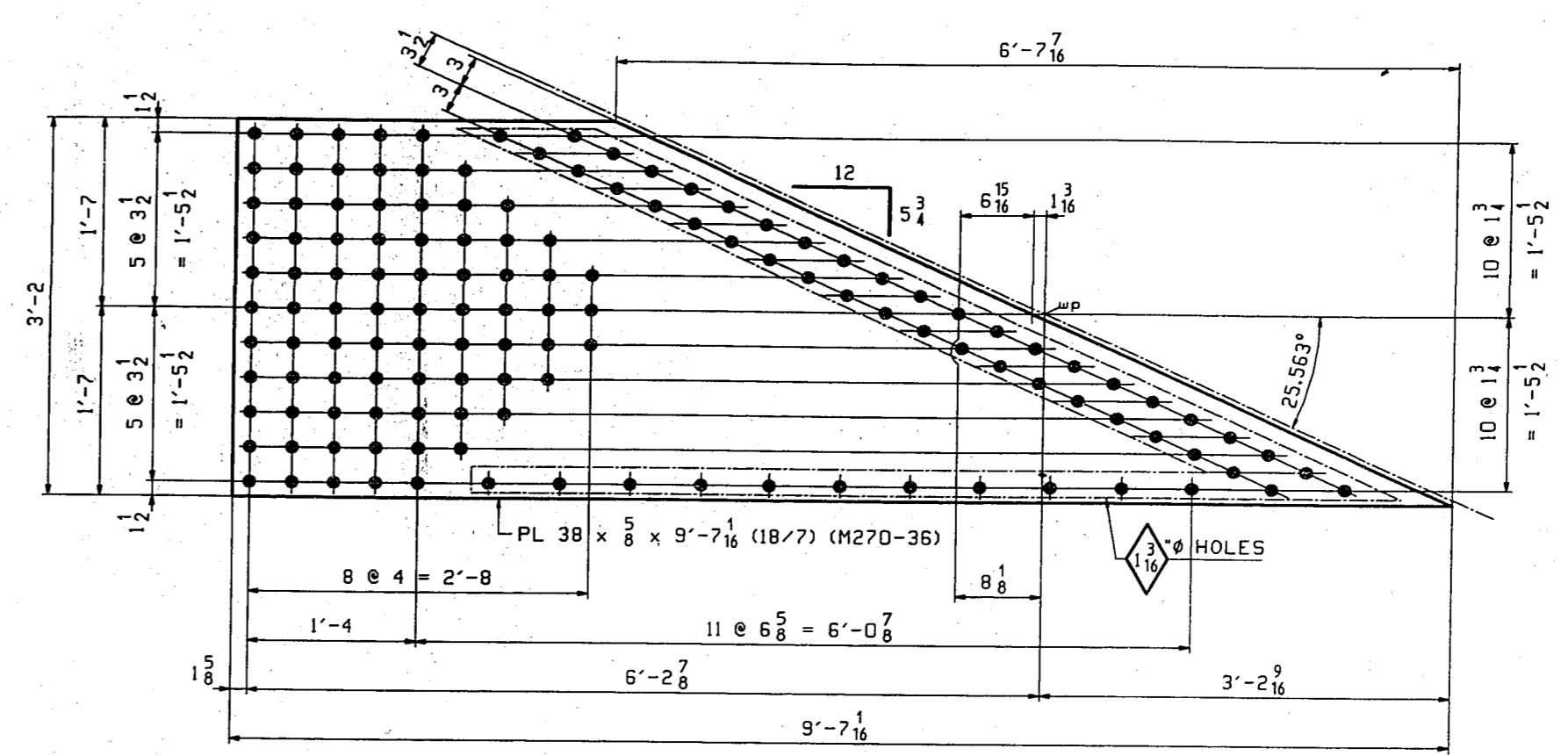
Drawn	Checked	Approved	Revised
LWD	TRM		
01/06/99	01/22/99		

U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.H. / INDIANA D.O.T.
 DANVERS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. 00K8D 0001 001

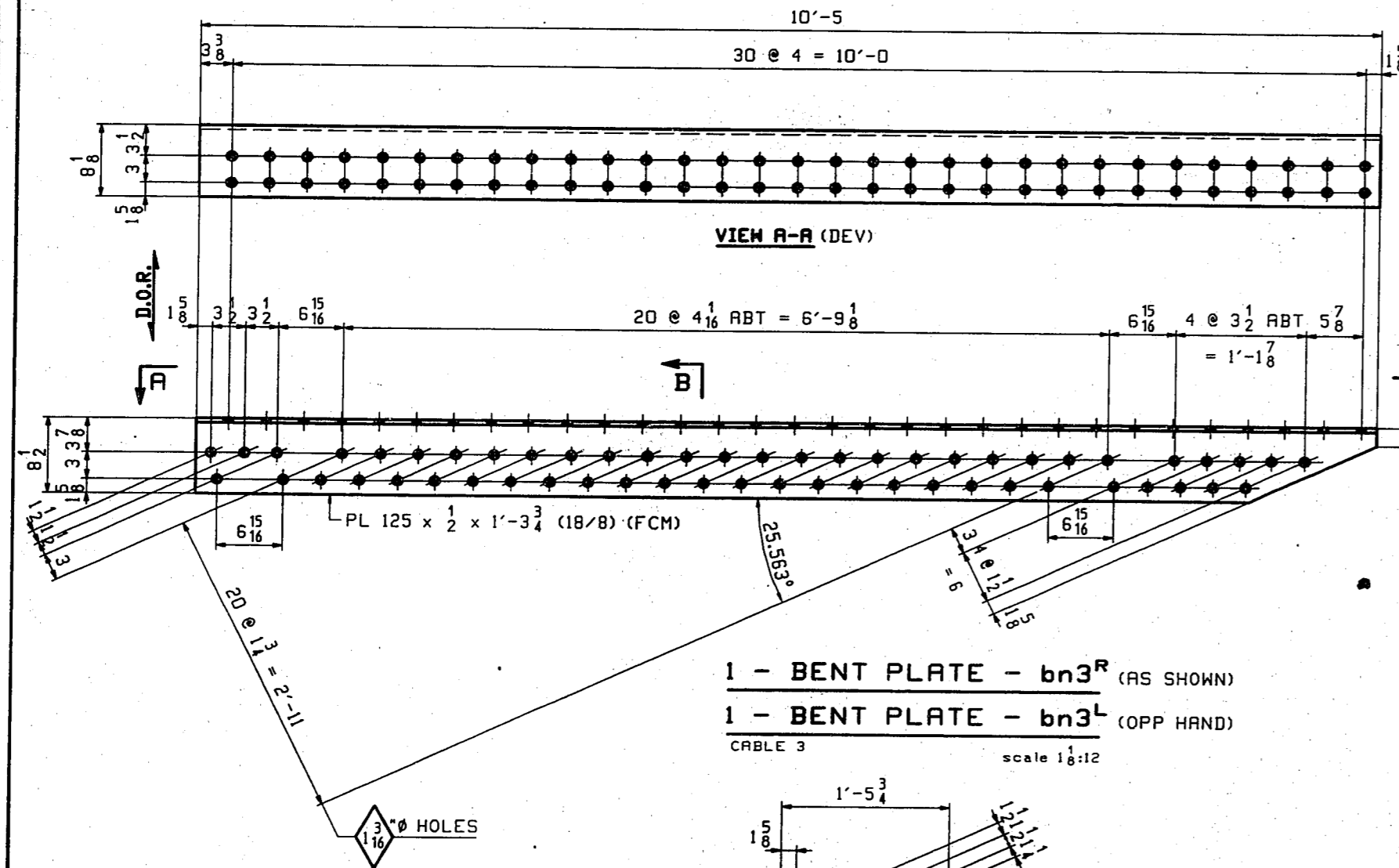
Shop Part: SEE GNI
 Edge Distance AS NOTED
 Holes: 1/8" Ø (UN)
 TENSOR 1819
 Contr. No. 672
 Sh. 55 of 77



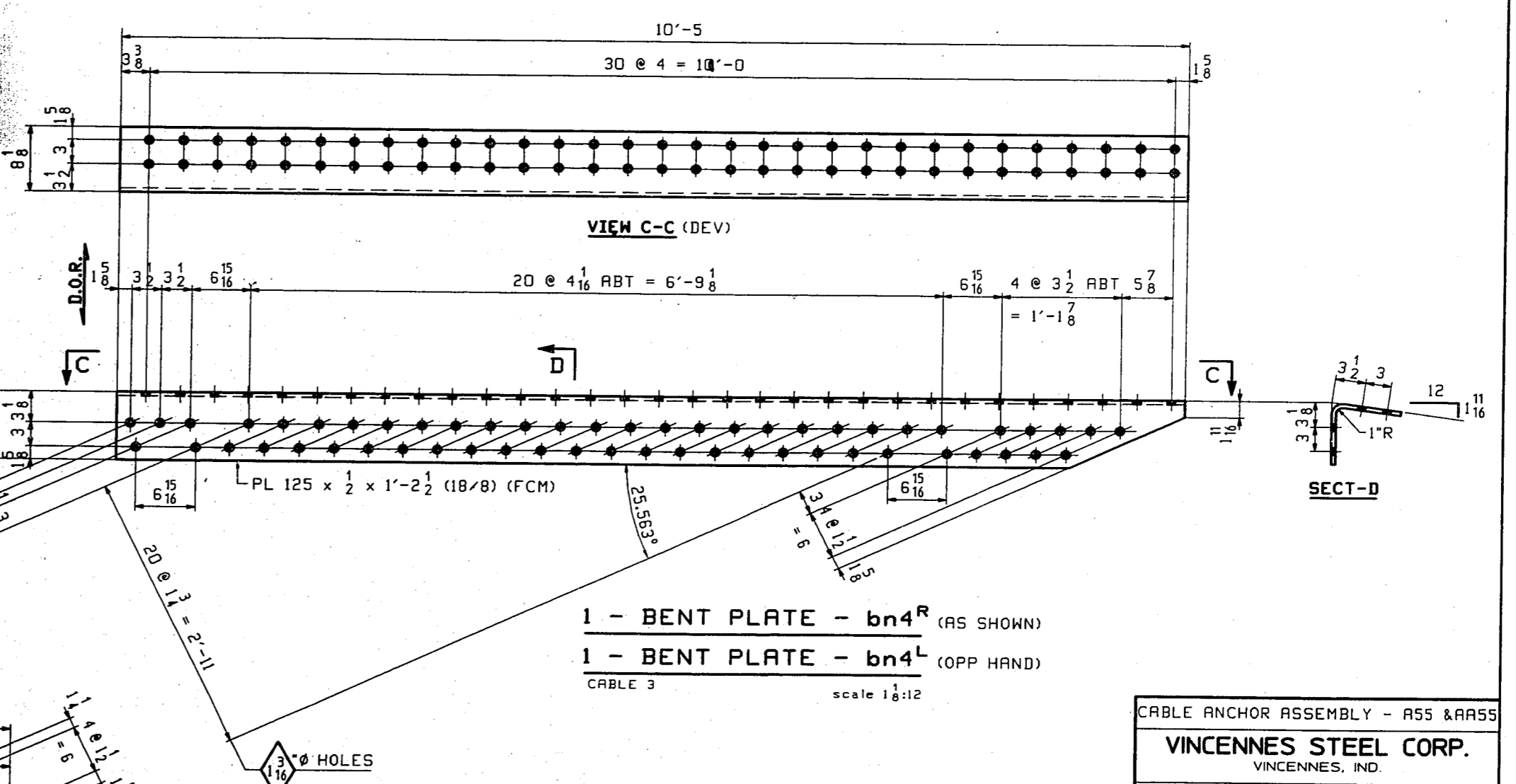
4 - ANCHOR SPLICE PLATE - bn1
CABLE 3 scale 1/8\"/>



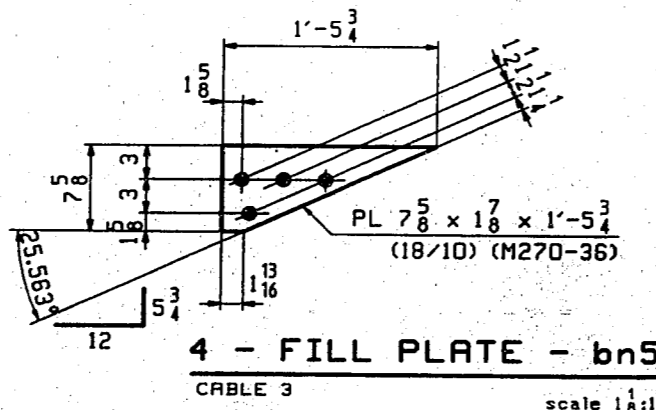
4 - ANCHOR FILL PLATE - bn2
CABLE 3 scale 1/8\"/>



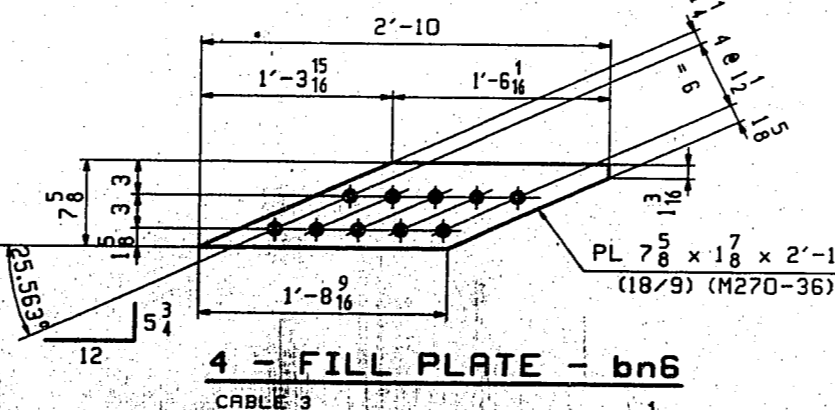
1 - BENT PLATE - bn3^R (AS SHOWN)
1 - BENT PLATE - bn3^L (OPP HAND)
CABLE 3 scale 1/8\"/>



1 - BENT PLATE - bn4^R (AS SHOWN)
1 - BENT PLATE - bn4^L (OPP HAND)
CABLE 3 scale 1/8\"/>



4 - FILL PLATE - bn5
CABLE 3 scale 1/8\"/>



4 - FILL PLATE - bn6
CABLE 3 scale 1/8\"/>

- NOTES:
1. ALL MATERIAL TO BE M270-50 (UN).
 2. [DR] ALL HOLES THIS SHEET.
 3. SEE SHEET GNI FOR GENERAL NOTES.
 4. D.O.R. DENOTES DIRECTION OF MILL ROLLING.

CABLE ANCHOR ASSEMBLY - R55 & R55

VINCENNES STEEL CORP.
VINCENNES, IND.

Drawn	Checked	Approved	Revised
LWB 01/06/99	TAM 01/22/99		

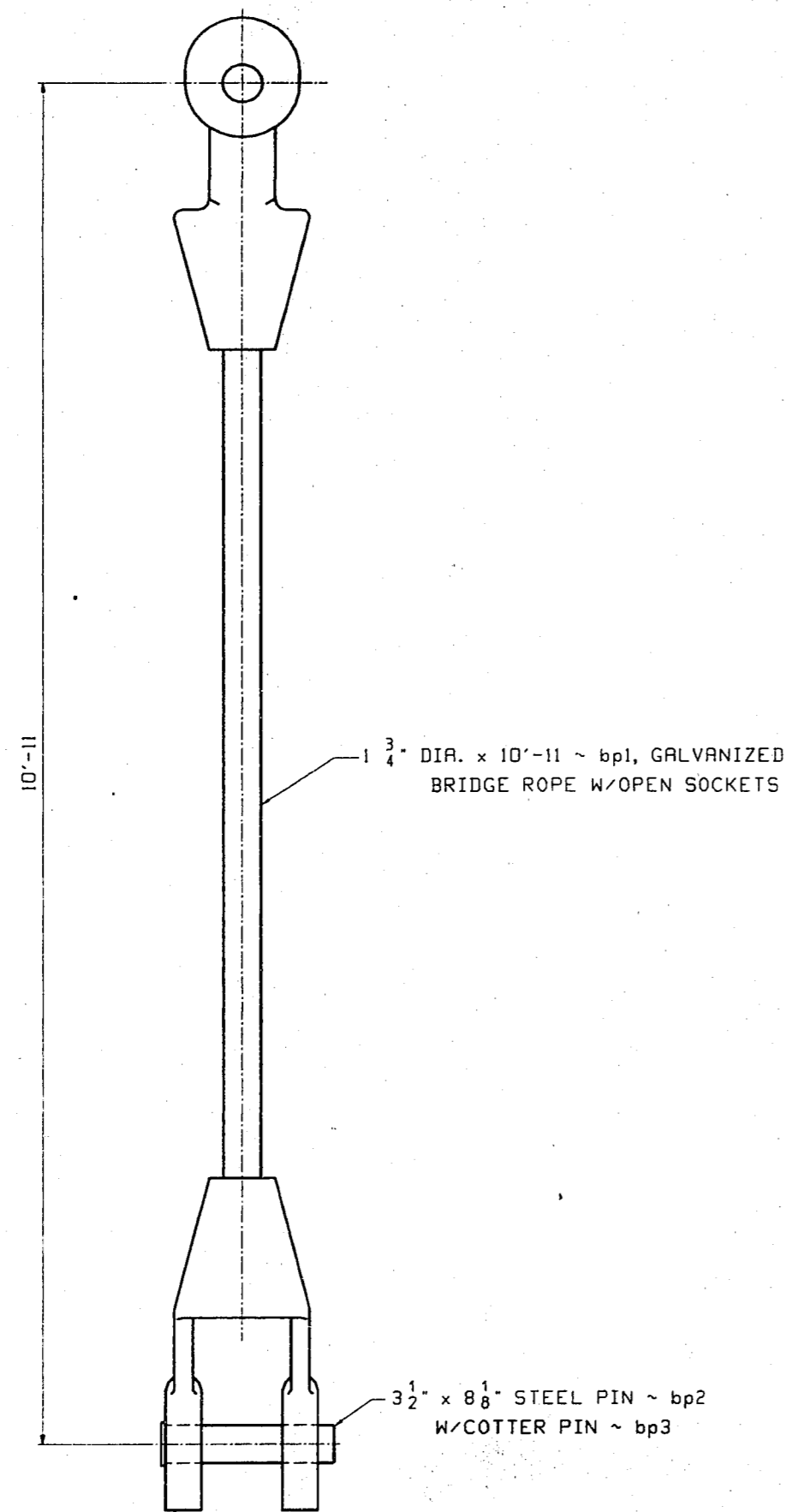
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
KENTUCKY D.O.H. / INDIANA D.O.T.
DAVISS COUNTY, KY / SPENCER COUNTY, IND
PROJ. 00K8D 00101 001

Shop Point SEE GNI

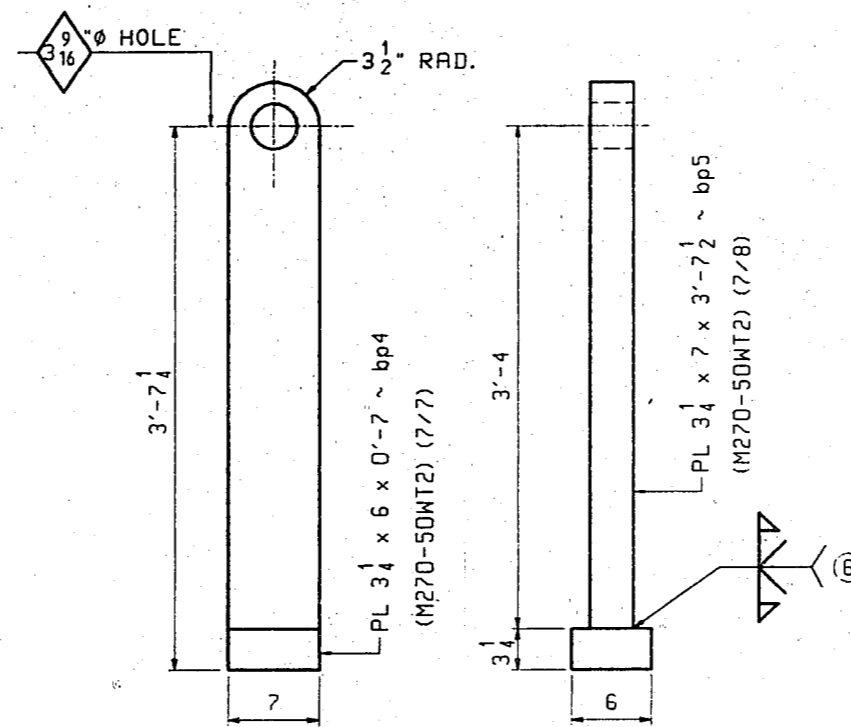
Edge Distance AS NOTED Holes: 1/8" φ (UN)

Contr. No. 672 Sh. 55 of 1/2

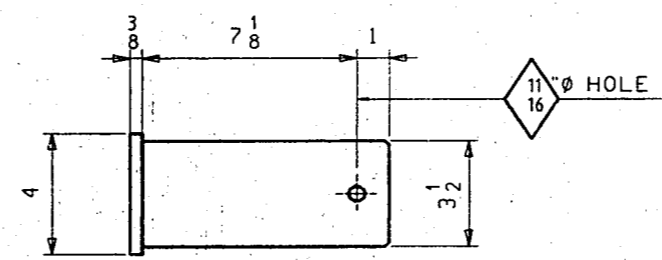
SENSOR 1819



4 ~ BRIDGE ROPE ~ A57



4 ~ TIE-DOWN ANCHOR ~ B57



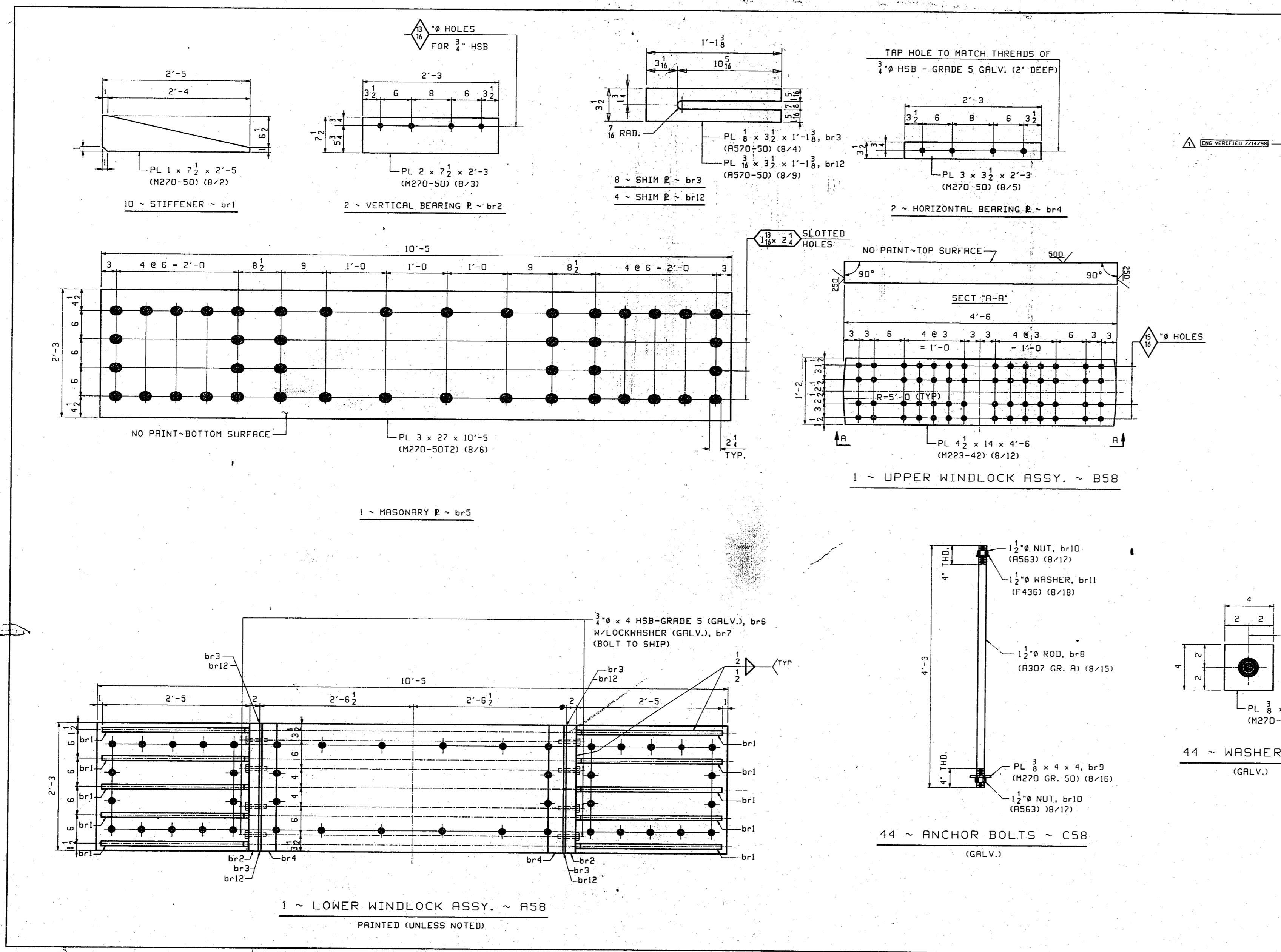
8 ~ STEEL PINS ~ bp2

BILL OF MATERIAL						
LN	KIND	SECTION	LENGTH	REQ. MARK	GRADE	REMARKS
1		BRIDGE ROPE		4 A57		263
2						
3		ROPE 1 3/4"	10'-11"	4 bp1		ROPE W/ SOCKETS 7/2
4	RD	3 1/2"	8 1/2"	8 bp2		STEEL PIN 7/3
5	RD	1 1/8"	6"	8 bp3		COTTER PIN 7/4
6						
7		TIE-DOWN ANCHORS		4 B57		319
8						
9	PL	6 x 3 1/2"	7"	4 bp4	M270-S0 T2	7/7
10	PL	7 x 3 1/2"	3'-7 1/2"	4 bp5	M270-S0 T2	7/8
11						
12						
13						
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NOTES:

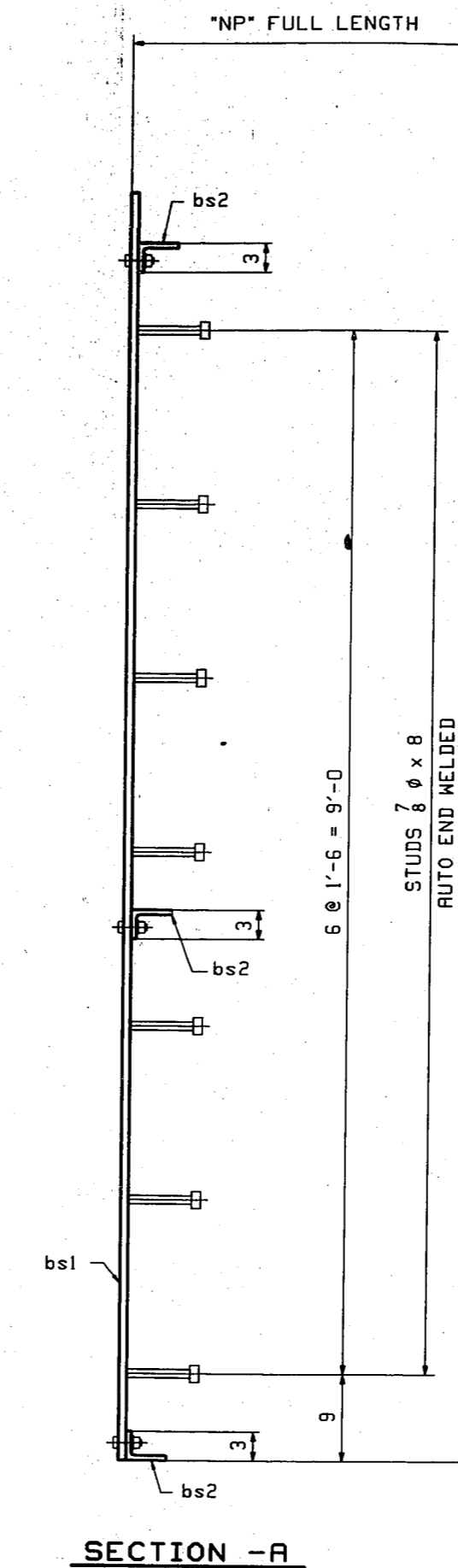
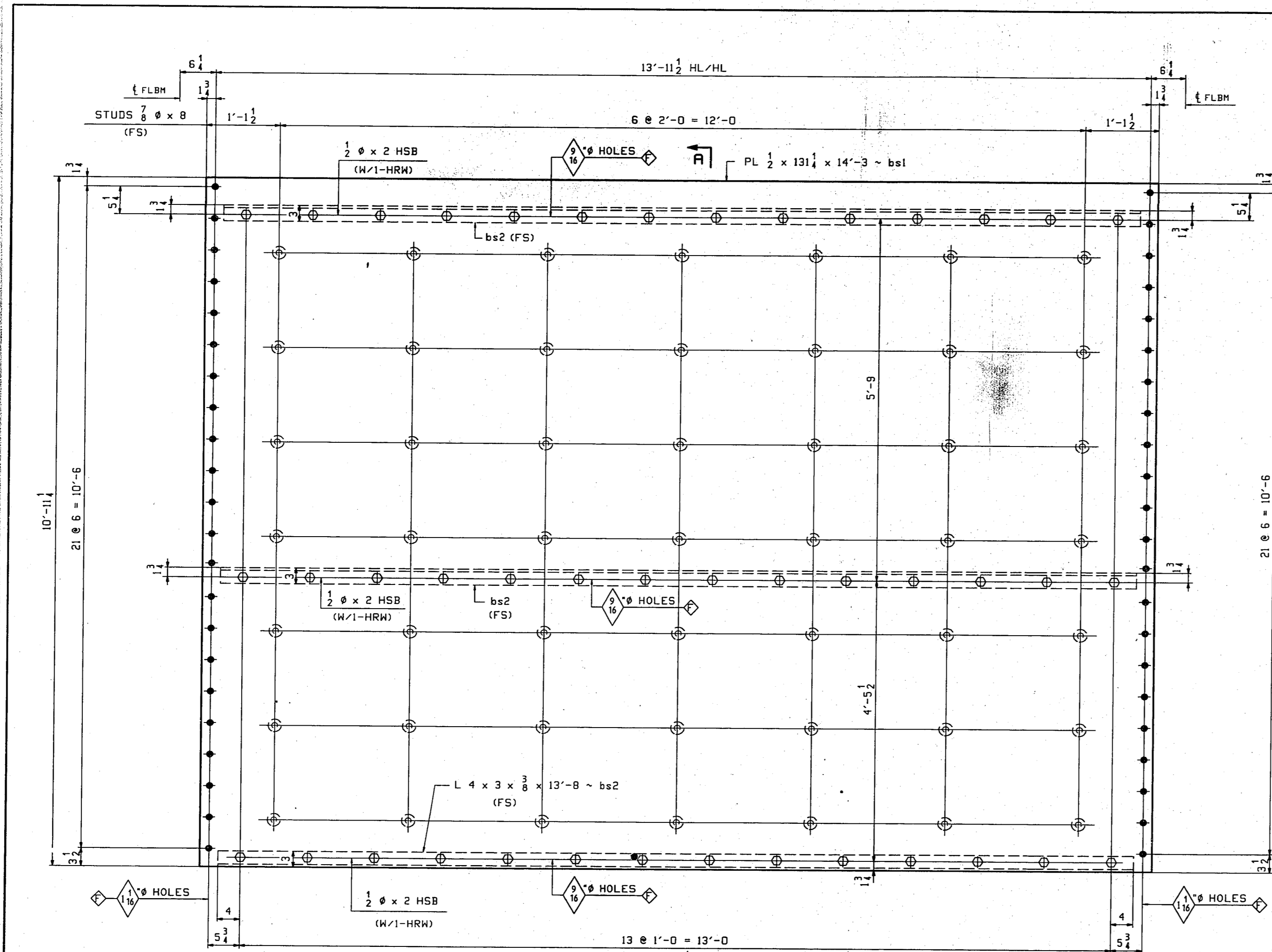
1. THE 1 3/4" DIA. ROPE SHALL BE RIGHT REGULAR LAY. THE ROPE SHALL BE GALVANIZED CONFORMING TO ASTM A-603 CLASS A.
2. THE BREAKING STRENGTH OF THE ROPES, SOCKETS, AND PINS SHALL BE GREATER THAN OR EQUAL TO 143 TONS.
3. THE SOCKETS, PINS AND COTTER PINS SHALL BE GALVANIZED CONFORMING TO ASTM A123.
4. MATERIAL NOTED "T2" SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE TEMPERATURE FOR ZONE 2 AND "H" FREQUENCY.

TIE-DOWN CABLE			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG 06/01/98	DD 06/23/98		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH KENTUCKY D.O.H. / INDIANA D.O.T. DAVLESS COUNTY, KY / SPENCER COUNTY, IND PROJ. OOKBD 00101 001			
Shop Point SEE CNY			
Edge Distance AS NOTED			
Holes: 1 1/8" Ø (LN)			
Contr. No. 672	Sh. 57 of		73



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1		LOWER WINDLOCK ASSY.		1	B58		3906
2	PL	$7\frac{1}{2} \times 1$	2'-5	10	br1	A570-50	B/2
3	PL	$7\frac{1}{2} \times 2$	2'-3	2	br2	A570-50	B/3
4	PL	$3\frac{1}{2} \times \frac{3}{4}$	1'-1 $\frac{1}{8}$	8	br3	A570-50	B/4
5	PL	$3 \times 3\frac{1}{2}$	2'-3	2	br4	A570-50	B/5
6	PL	27 x 3	10'-5	1	br5	A570-50	B/6
7	HSB	$\frac{3}{4}$ \bar{E}	4	8	br6		GRADE 5 GALV. B/7
8	LOCK WASH	$\frac{3}{4}$ \bar{E}		8	br7		GRADE 5 GALV. B/8
9	PL	$3\frac{1}{2} \times \frac{3}{4}$	1'-1 $\frac{1}{8}$	4	br12	A570-50	B/9
10							
11		UPPER WINDLOCK ASSY.		1	B58		965
12	PL	$14 \times 4\frac{1}{2}$	4'-6	1	A223-42		B/12
13							
14		ANCHOR BOLT		44	C58		30
15	RD	$1\frac{1}{2}$ \bar{E}	4'-3	44	br8	A307	GRADE 5 GALV. B/15
16	PL	$4 \times \frac{3}{8}$	4	44	br9	A570-50	GRADE 5 GALV. B/16
17	HN	$1\frac{1}{2}$ \bar{E}		88	br10	A563	GRADE 5 GALV. B/17
18	WASH	$1\frac{1}{2}$ \bar{E}		44	br11		GRADE 5 GALV. B/18
19							
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ENG VERIFIED LOCKWASHER PHG/ML			
WINDLOCK DETAILS			
VINCENNES STEEL CORP.			
VINCENNES, IND.			
Drawn	Checked	Approved	Revised
PHG	DD		7/14/88
06/02/88	06/24/88		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.M. / INDIANA D.O.T.			
DAVISS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBD 001D1 001			
Shop Print SEE GN1			
Edge Distance AS NOTED Holes: $\frac{3}{4}$ \bar{E} (LN)			
Cont'r. No.	672	Sh.	58 of



BILL OF MATERIAL							
LN	KIND	SECTION	LENGTH	REQ.	MARK	GRADE	REMARKS
1	DIAPHRAGM			1	A59		AS SHOWN 3610
2	DIAPHRAGM			1	B59		3610
3	DIAPHRAGM			1	AA59		(OPP. HAND) ALIKE 3610
4	DIAPHRAGM			1	BB59		(OPP. HAND) 3610
5							
6	PL	131 1/4 x 2	14'-3"	4	bs1	M270-GR50W	10/2
7	L	4 x 3 x 3/8	13'-8"	12	bs2	M270-GR50W	10/3
8							
9	HSB	1/2"	2	168		A325-1	ENCL. 5/2
10	HRW	1/2"	2	168		F436	ENCL. 5/6
11							
12	STUD	7 @ 6"	9	196	en	A101	5/12
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NOTE:
 "NP*" INDICATES EMBEDDED AREA THAT IS TO RECEIVE 1.5 MILS PAINT THICKNESS AS DEFINED ON SHEET GNI.

- ONE ~ DIAPHRAGM - A59 (AS SHOWN) (BTWN FB4 & FB3) A59 & B59 ARE ALIKE EXCEPT FOR MK
- ONE ~ DIAPHRAGM - B59 (AS SHOWN) (BTWN FB3 & FB2)
- ONE ~ DIAPHRAGM - AA59 (OPP. HAND) (BTWN FB4 & FB3) AA59 & BB59 ARE ALIKE EXCEPT FOR MK
- ONE ~ DIAPHRAGM - BB59 (OPP. HAND) (BTWN FB3 & FB2)

NOTES:
 1. FOR GENERAL NOTES SEE SHEET GNI.
 2. ALL MATERIAL TO BE M270 GR50W (UN).
 ♦ - DENOTES HOLES TO BE DRILLED FULL SIZE.

DIAPHRAGMS

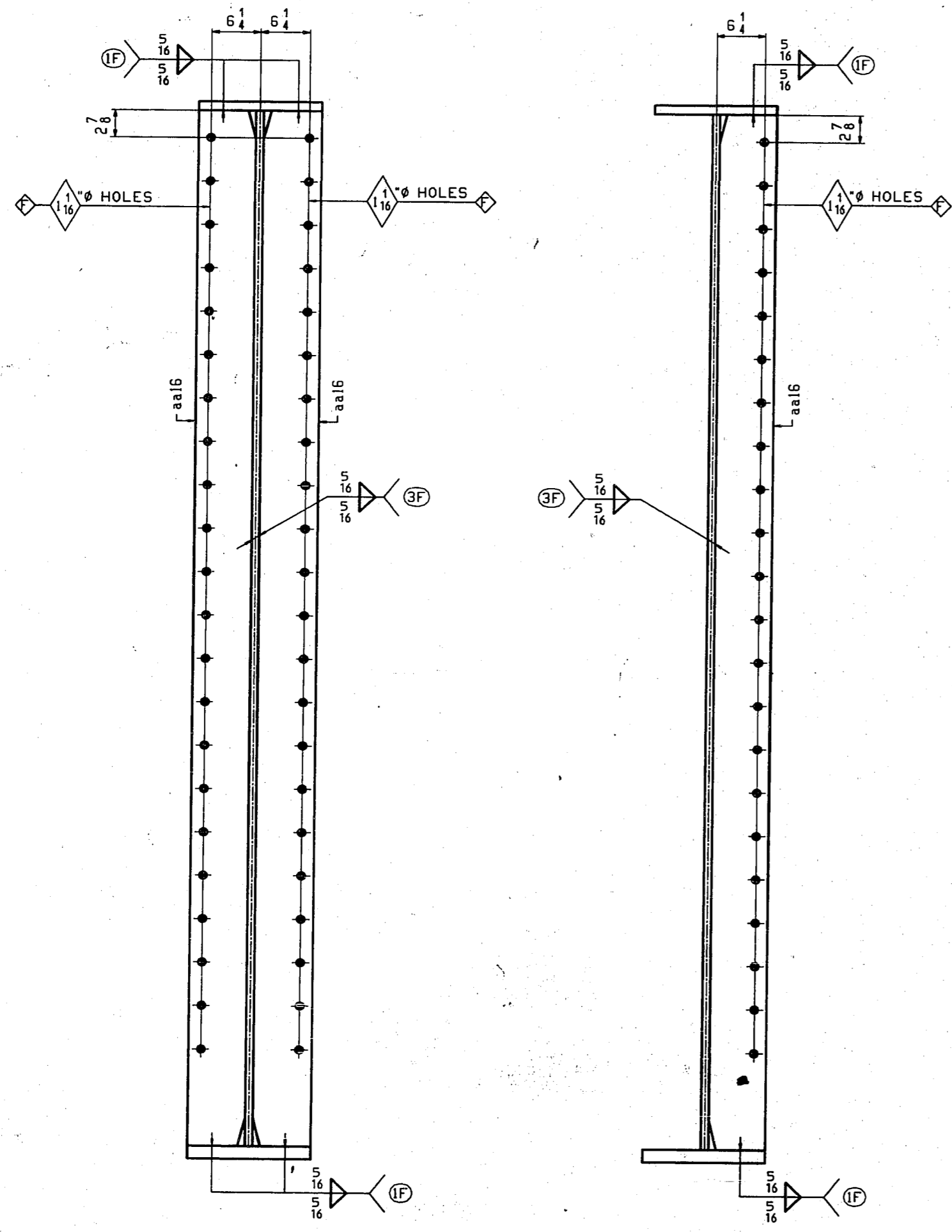
VINCENNES STEEL CORP.
 VINCENNES, IND.

Drawn	Checked	Approved	Revised
RB	TRM		
8/24/99	9/10/99		

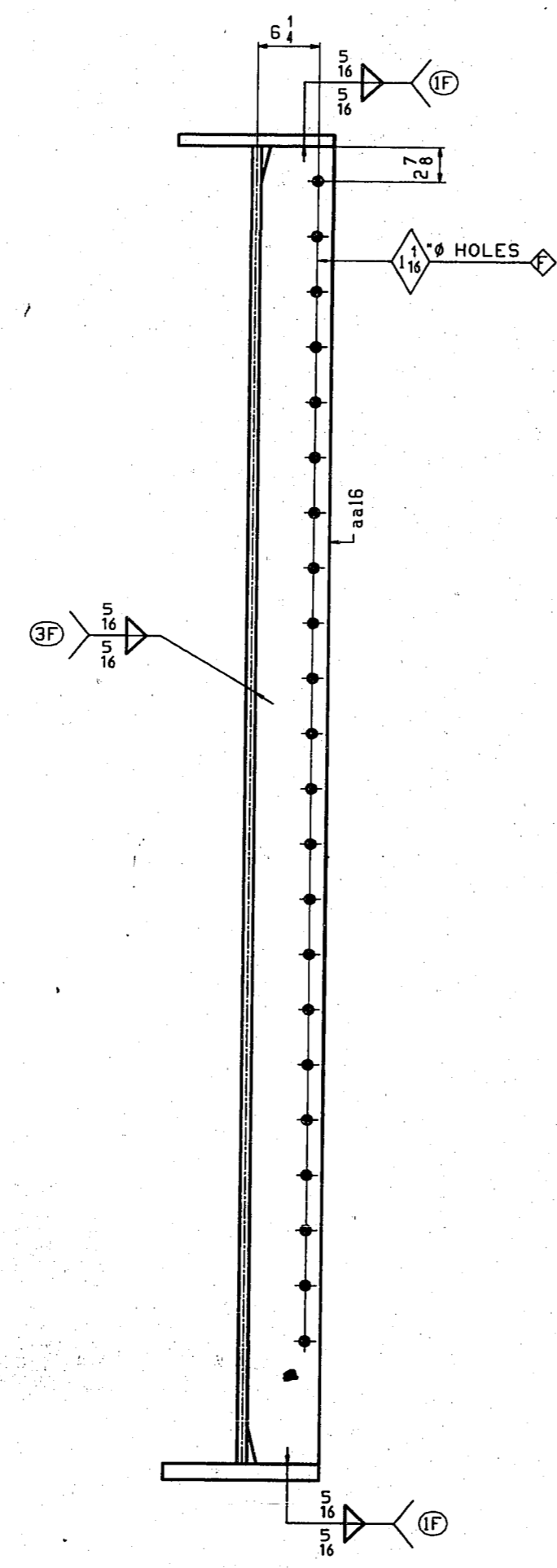
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH
 KENTUCKY D.O.H. / INDIANA D.O.T.
 DRAVRESS COUNTY, KY / SPENCER COUNTY, IND
 PROJ. D0K8D D0101 D01

Shop Print SEE GNI

Edge Distance AS NOTED Holes 1/2" - 1/4" (UN)
 Contr. No. 672 Sh. 59 of 75



SECTION -C
(FOR A31 & A33)



SECTION -D
(FOR B31 & B33)

◊ - DENOTES HOLES TO BE DRILLED FULL SIZE.

WORK THIS SHEET WITH SHEET 31.

FLOORBEAM ~ FB3 & FB4			
VINCENNES STEEL CORP. VINCENNES, IND.			
Drawn	Checked	Approved	Revised
RB	TRM		
8/24/99	8/10/99		
U.S. 231 OVER THE OHIO RIVER - INDIANA APPROACH			
KENTUCKY D.O.H. / INDIANA D.O.T.			
WAYLESS COUNTY, KY / SPENCER COUNTY, IND			
PROJ. 00KBB 0001 001			
Shop Point SEE GNI			
Edge Distance AS NOTED		Holes: 1/4" (UN)	
Contr. No. 672		Sh. 60 of	