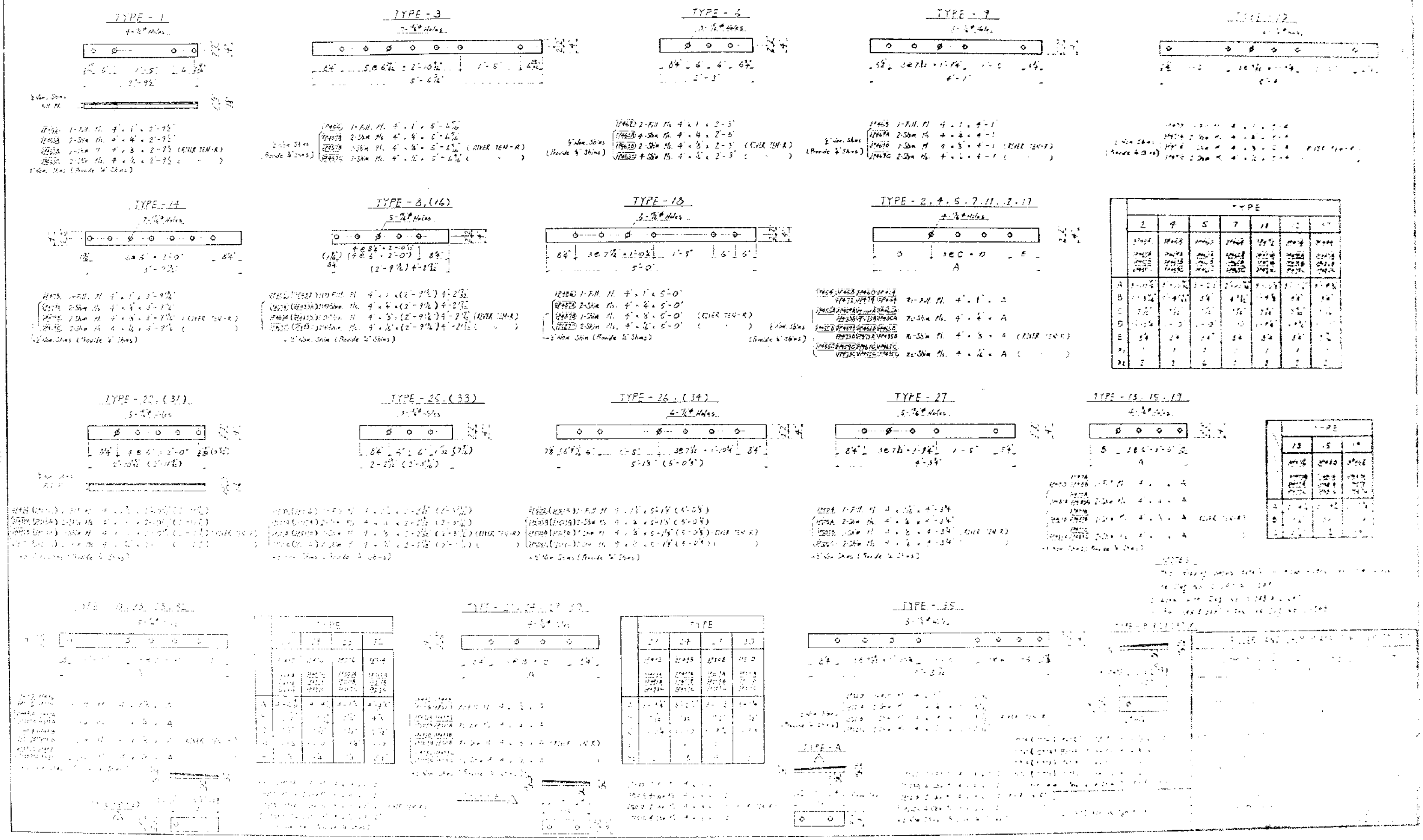
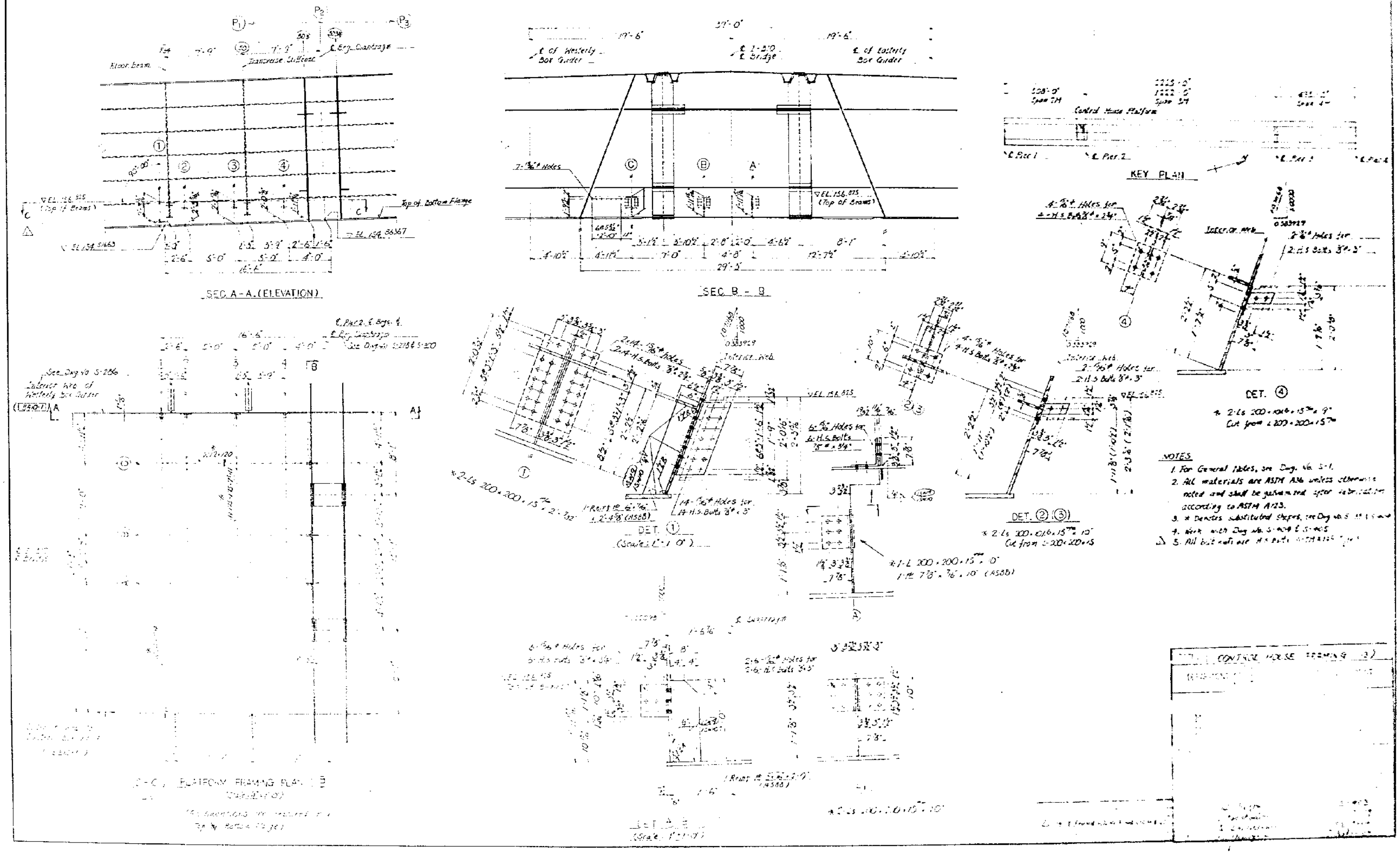
FILLER AND SHIM PLATE FOR EXP. JT. E1

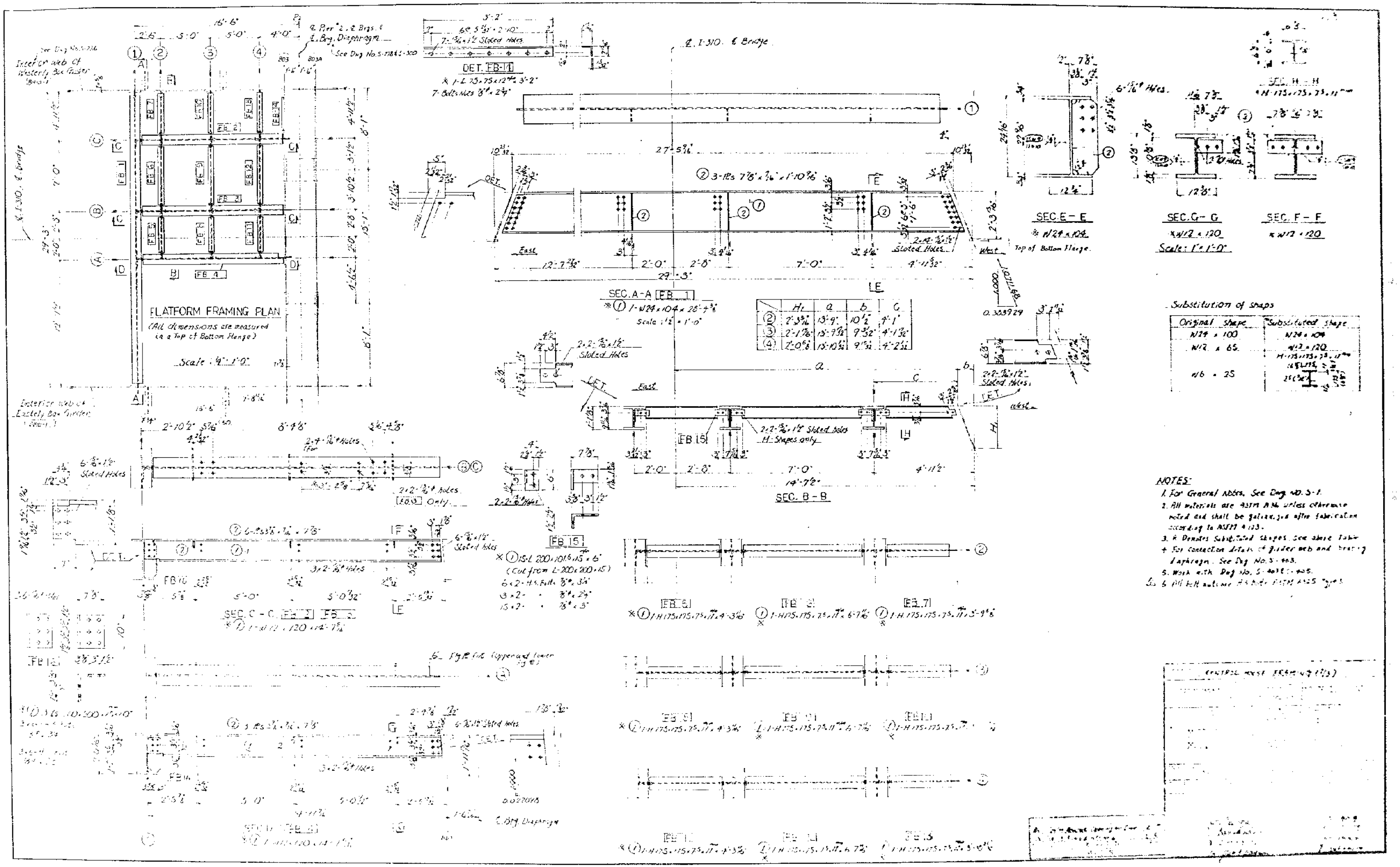
(Scale - 1" = 1'-0")



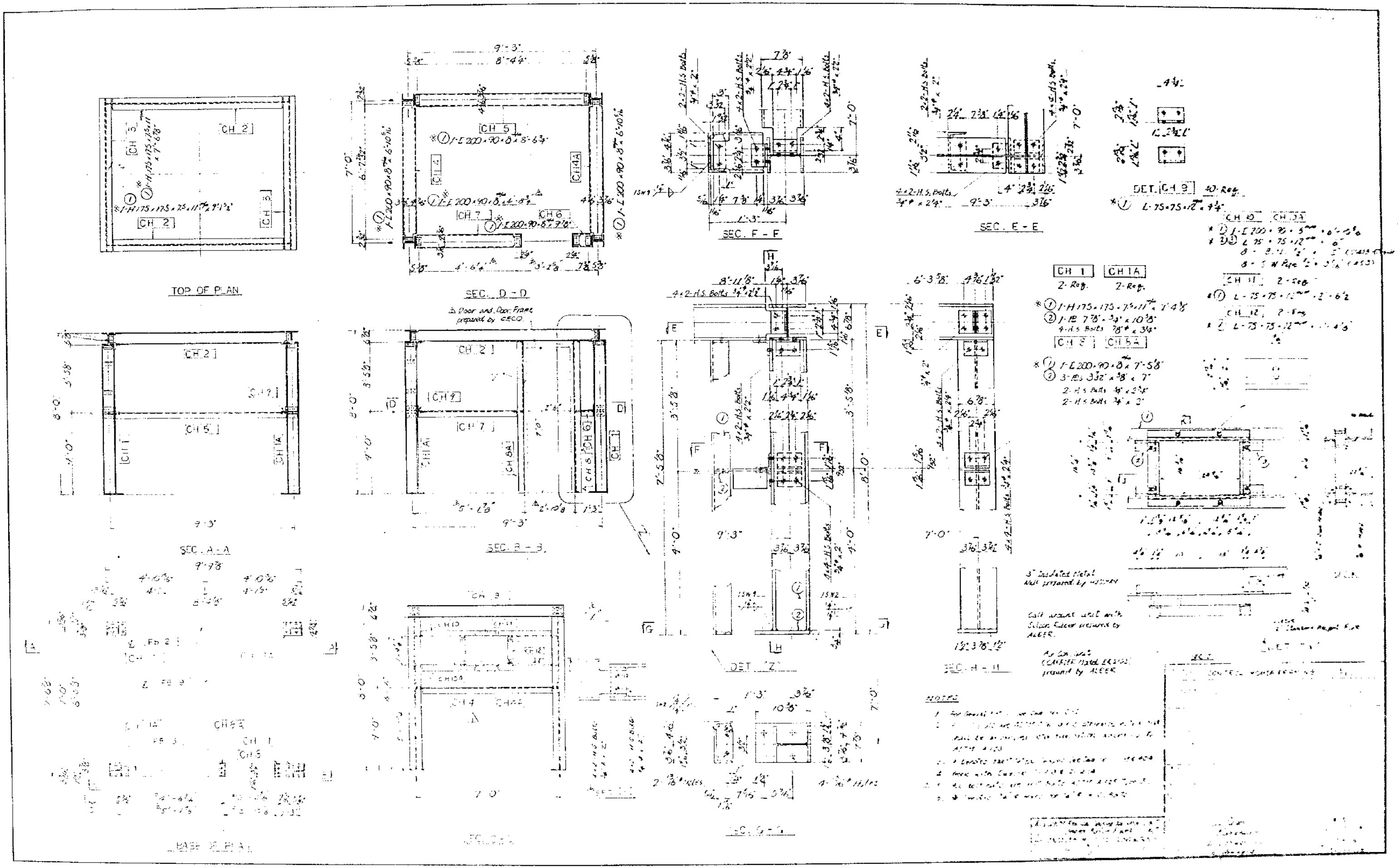
Shop Drawings



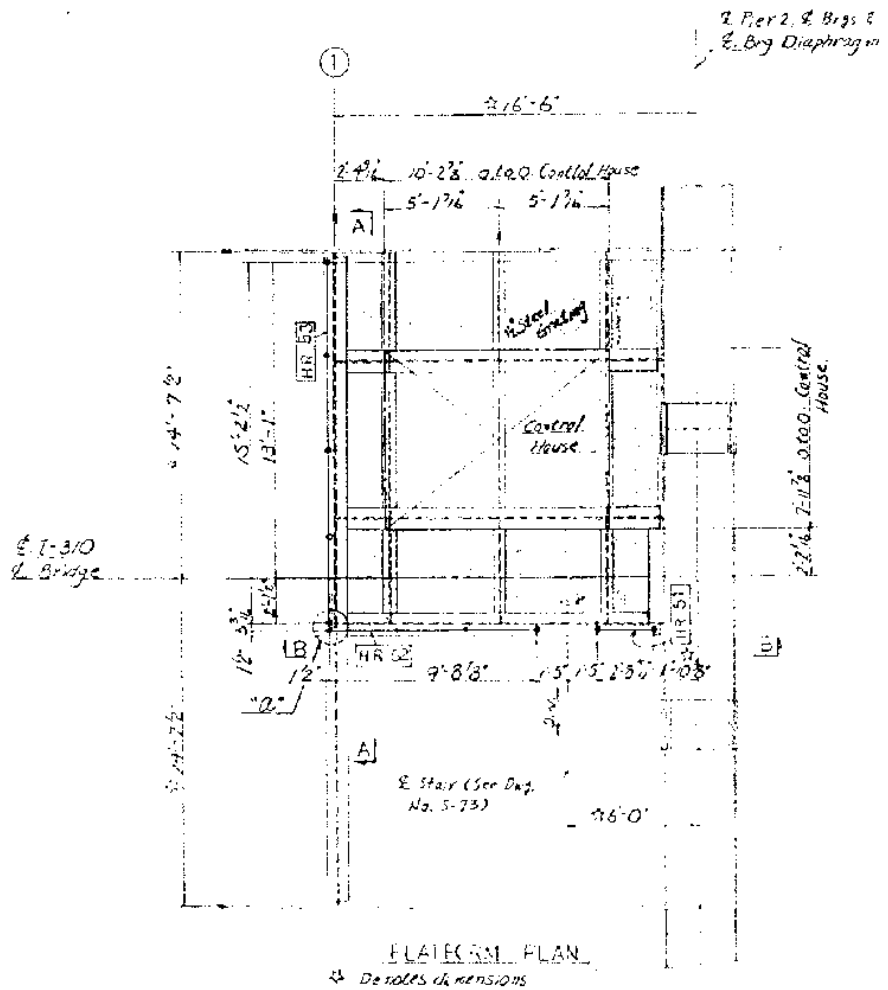
SHOP DRAWINGS



SHOP DRAWINGS



Shop Drawings



PLATFORM PLAN

☆ Denotes dimensions are measured in a Top of Bottom Flange.

HR 51

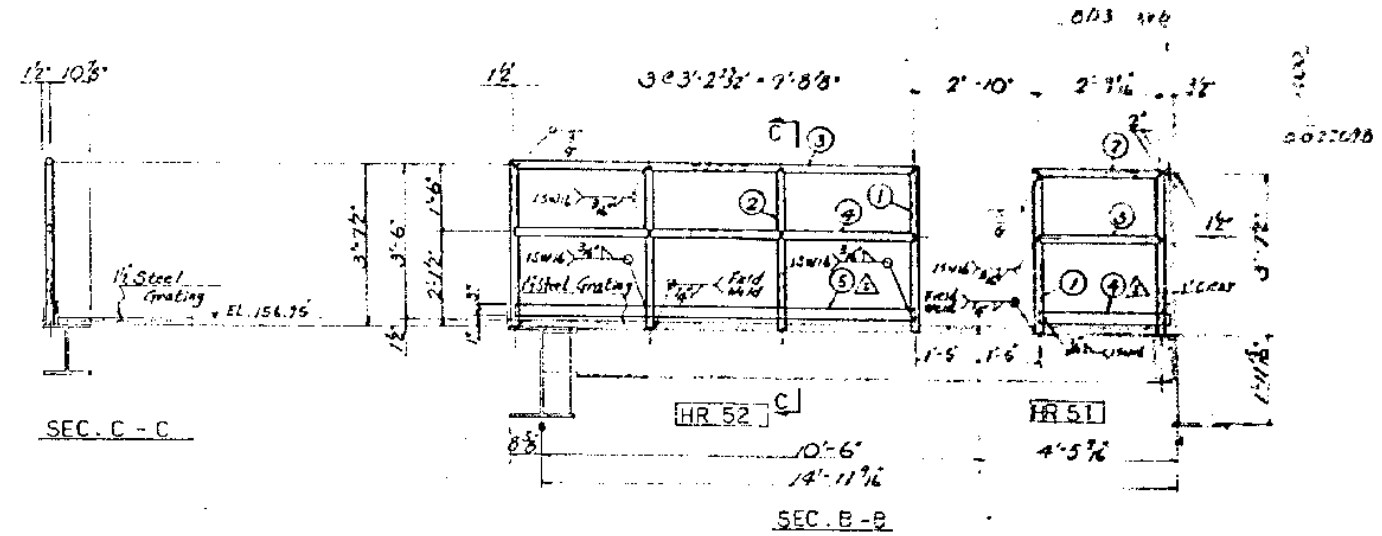
①	2 - Pipes, 1½" x 3'-8 15/32" (A53)	Galv.
②	1 - Pipe " x 2'-10 3/32" (")	
③	1 - Pipe " x 2'-9 1/16" (")	
△④	1 - Pl 3" x ½" x 5'-0" (A36)	

HR 52

①	2 - Pipes 1½" x 3'-8 15/32" (A53)	Galv.
②	2 - Pipes " x 3'-7½" (")	
③	1 - Pipe " x 9'-10 3/32" (")	
④	3 - Pipes " x 3'-2 23/32" (")	
△⑤	1 - Pl 3" x ½" x 9'-8⅛" (A36)	

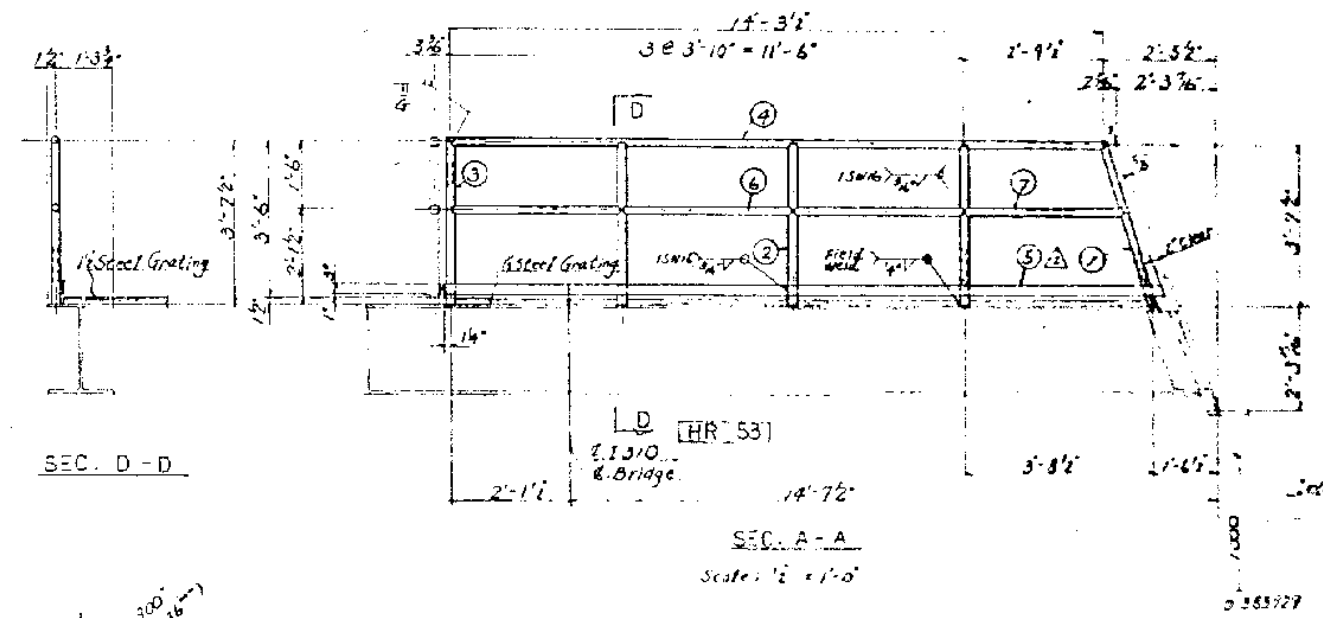
HR 53

①	1 - Pipe 1½" x 3'-9 17/32" (A53)	Galv.
②	3 - Pipes " x 3'-7½" (")	
③	1 - Pipe " x 1'-1 3/32" (")	
④	1 - Pipe " x 14'-5 13/32" (")	
⑥	3 - Pipes " x 3'-10" (")	
⑦	1 - Pipe " x 3'-3 9/32" (")	
△⑤	1 - Pl 3" x ½" x 15'-8¼" (A36)	



SEC. C - C

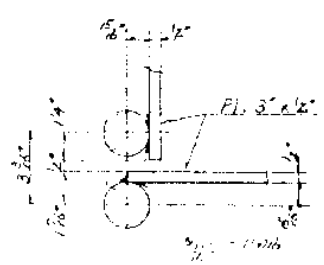
SEC. B - B



SEC. D - D

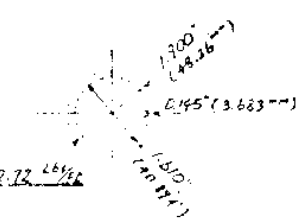
SEC. A - A

Scale: ½" = 1'-0"



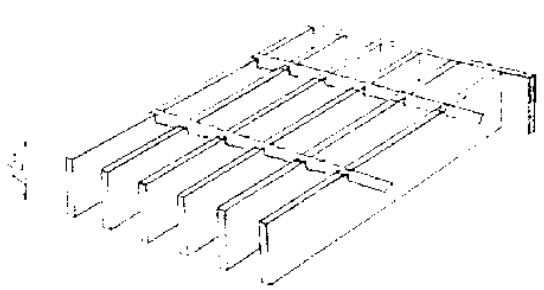
△ DET. "a"

Scale: 4" = 1'



△ 1½" ϕ Standard Pipe Dimensions

Scale: ½" = 1'



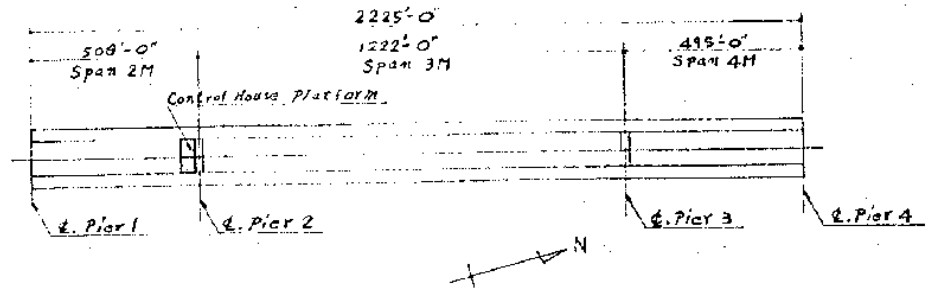
Shape of Steel Grating

NOTES:

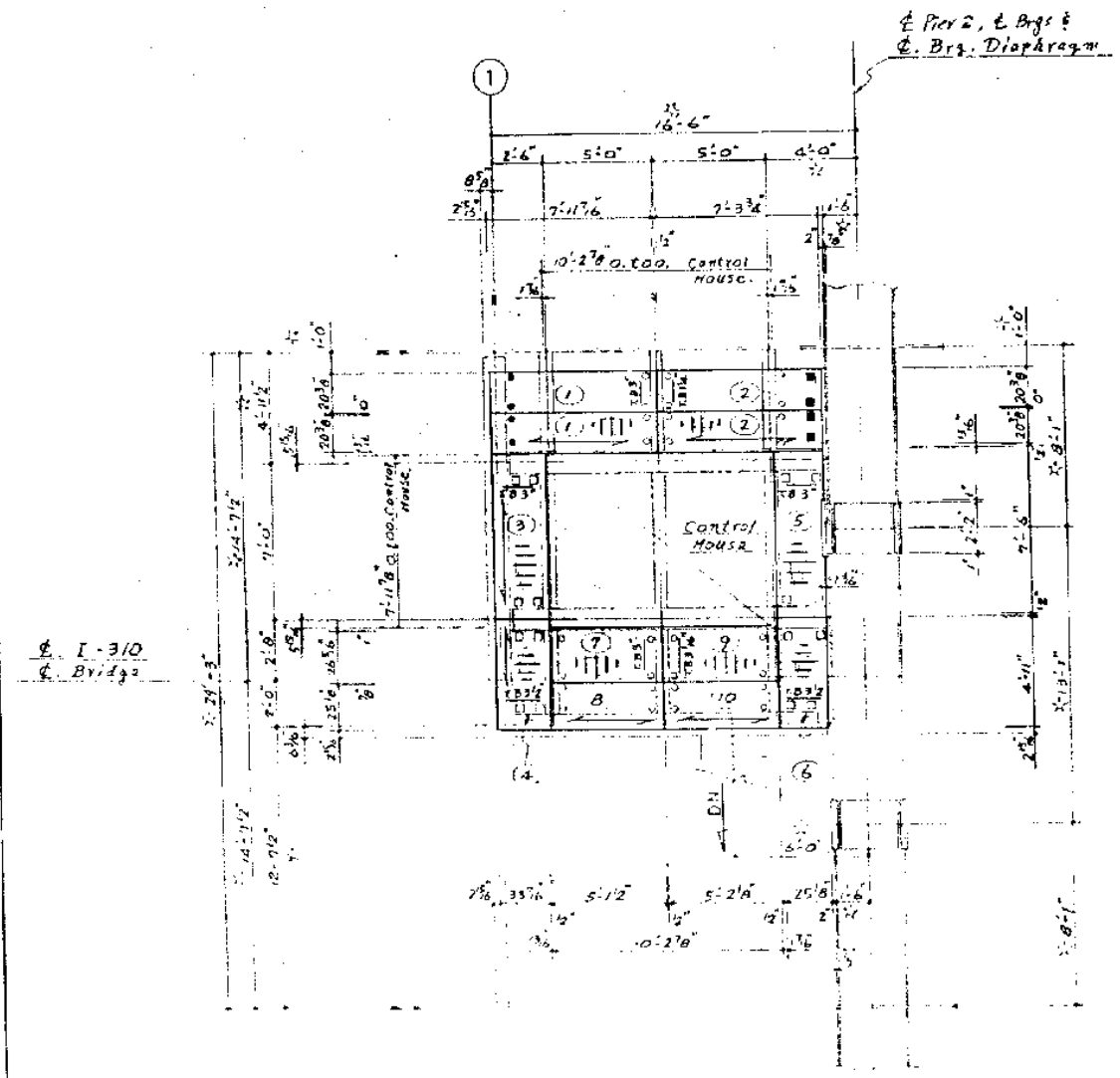
1. For details of Grating - See Dwg. No S-407.
2. For additional notes, See Dwg No S-405.
△ 3. A53 Pipe to be galvanized.

CONTROL HOUSE EXHAUST

SHOP DRAWINGS



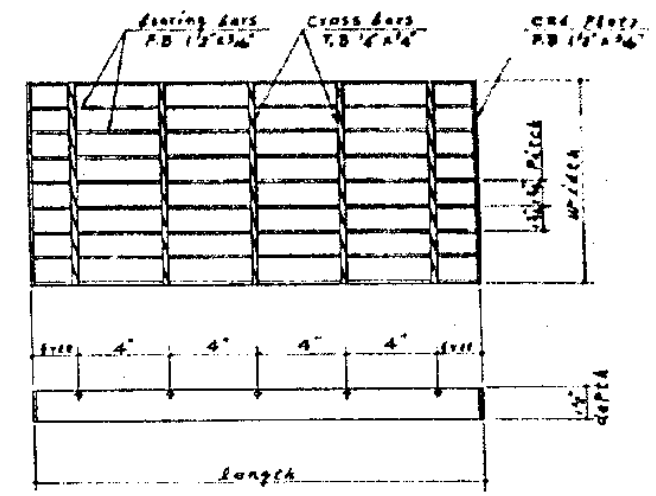
KEY PLAN



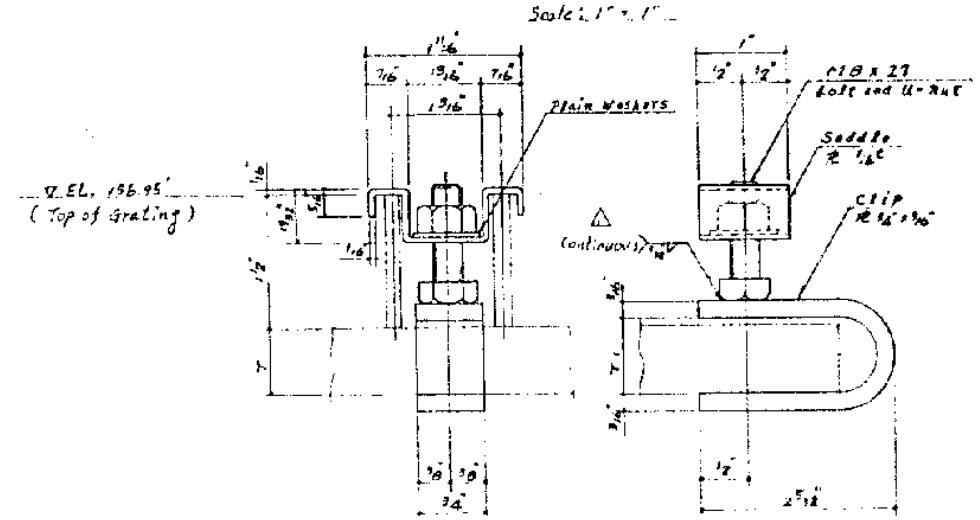
PLATFORM PLAN
Scale: 1/4" = 1'-0"

Concrete dimensions are measured on top of section floor

DETAIL OF GRATING
Scale: 1/2" = 1'



DETAIL OF SADDLE CLIP
Scale: 1" = 1"



NOTES:

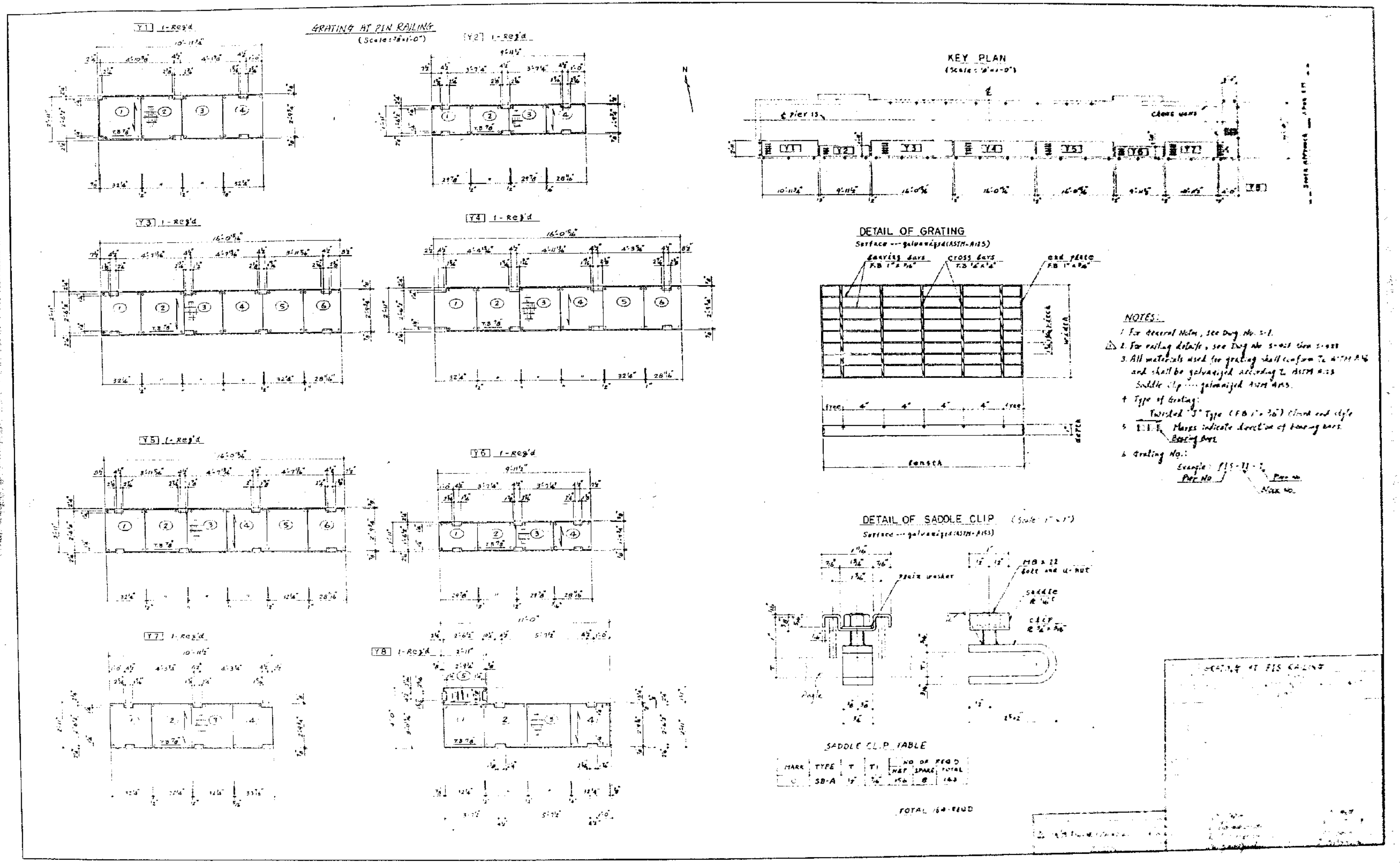
1. For general notes, see Dwg. No. S-1
2. All materials used for grating shall conform to ASTM A36 and shall be galvanized according to ASTM A123. Saddle clip — galvanized ASTM A153
3. For control house, see Dwg. No. S-105 thru S-108
4. Type of grating — Twisted "H" Type (FS 1/2" x 3/16") Chain link style.
5. Bars indicate direction of resisting bearing bars.
6. Grating No.
   Example C4-1
   Control House — Grating No.

SADDLE CLIP TABLE

MARK	TYPE	T	T1	NO. OF REQD NET	SPARE	TOTAL
○	SB-A	3/16	1/2"	20	1	29
●	SB-B	1/4"	13/16	4	0	4
◻	SB-C	3/8"	1 13/16	16	1	17
■	SB-D	13/32	7/8"	4	0	4

TOTAL 54 - REQD.

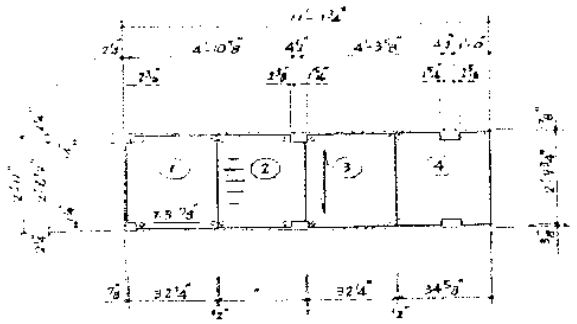
SHOP DRAWINGS



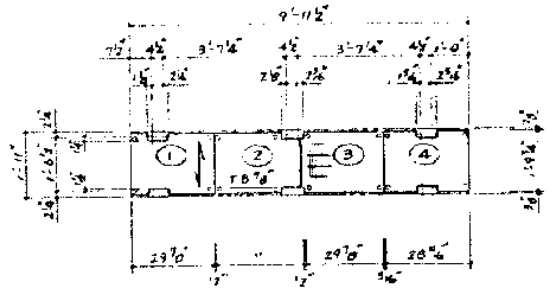
SHOP DRAWINGS

GRATING AT PIN RAILING
(Scale: 3/8" = 1'-0")

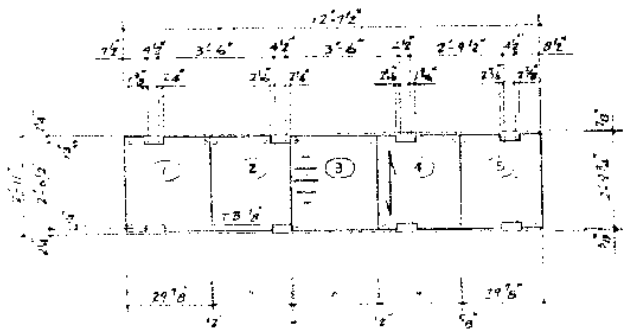
Y9 1-Req'd



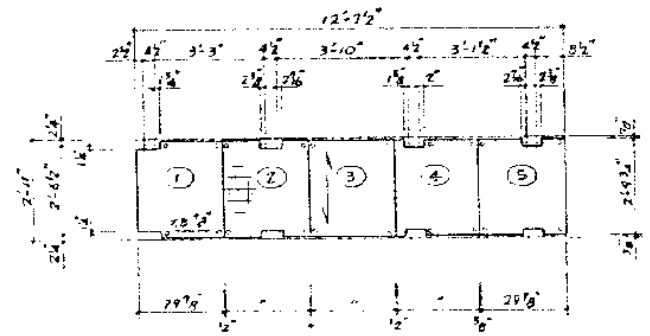
Y10 1-Req'd



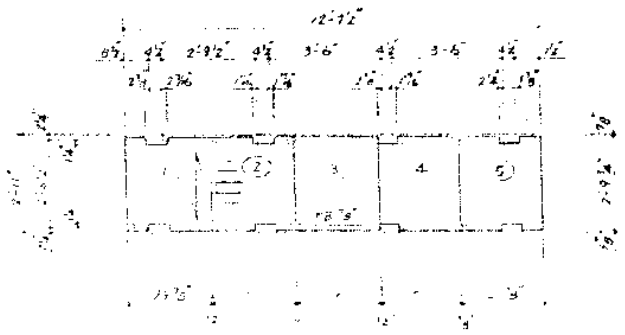
Y11 1-Req'd



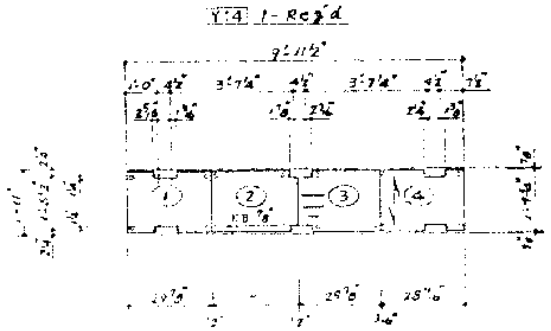
Y12 1-Req'd



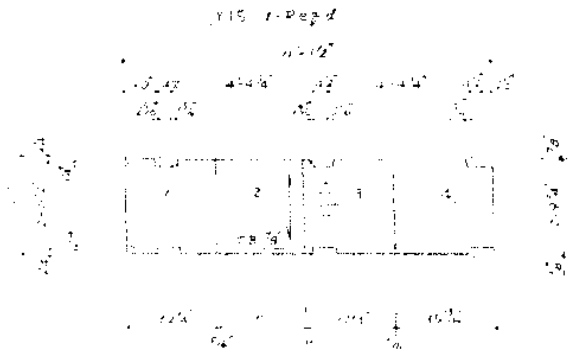
Y13 1-Req'd



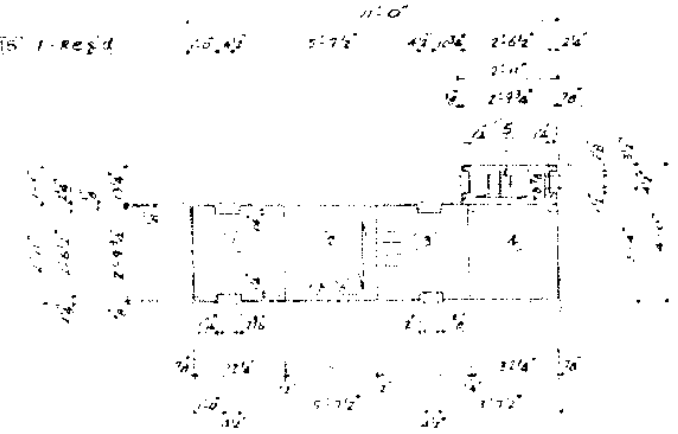
Y14 1-Req'd



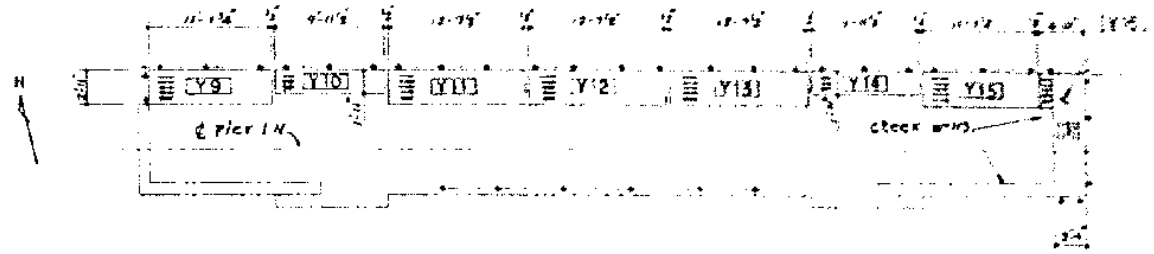
Y15 1-Req'd



Y15 1-Req'd



KEY PLAN
(Scale: 1/8" = 1'-0")



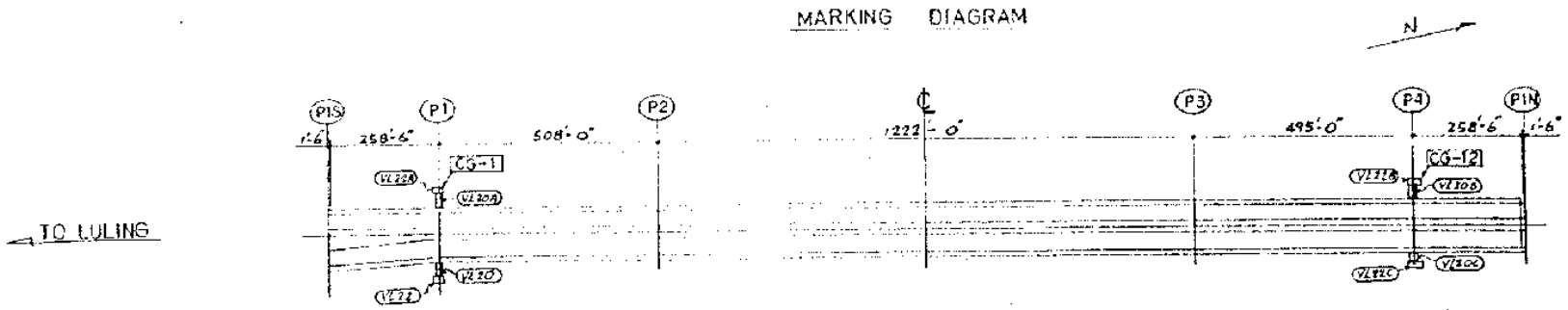
SADDLE CLIP TABLE

MARK	TYPE	T	T1	NO. OF REQ'D		
				NET	SPARE	TOTAL
O	SB-A	1/2"	9/16"	144	7	151

TOTAL 151 - REQ'D

NOTES:
1. For railing details, see Dwg. no. [illegible]
2. For additional notes, see Dwg. no. [illegible]

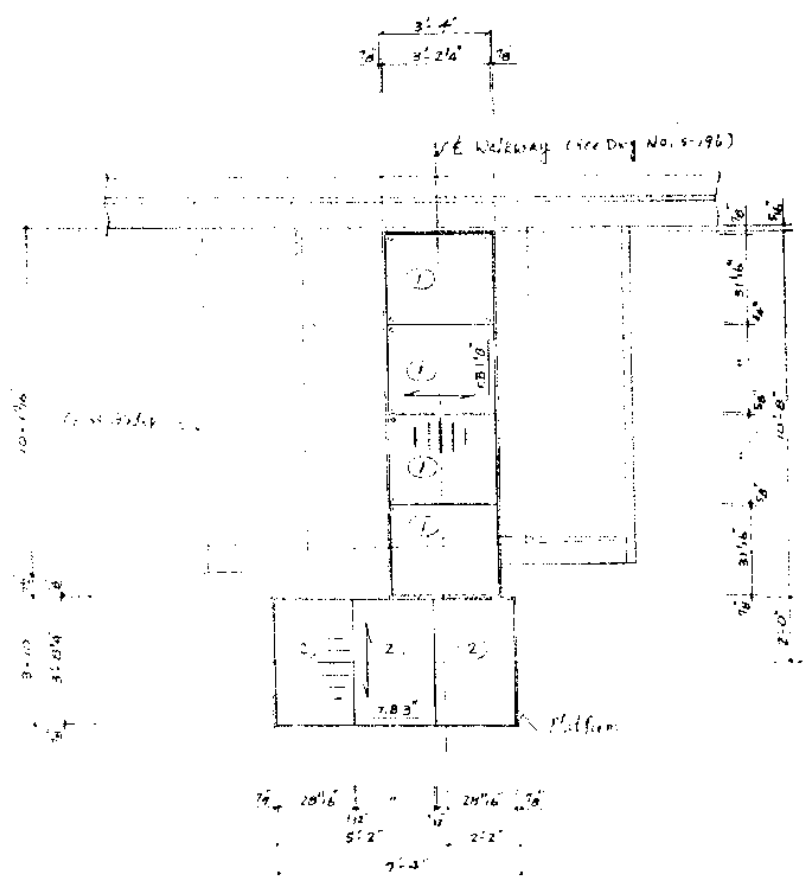
MARKING DIAGRAM



CG-1 CG-2

PLAN 4 req'd

(Scale: 3/8"=1'-0")



SADDLE CLIP TABLE

MARK	TYPE	T	T1	NO. OF REQ'D		
				NET	SPARE	TOTAL
U	SB-A	1/2"	9/16"	112	6	118

TOTAL 118 - REQ'D

NOTES:

1. For General Notes, see Dwg. No. S-1.
2. For details of grating and saddle clip, see Dwg No. S-408
3. For access stairway details, see Dwg No S-196
4. All materials used for grating shall conform to ASTM A36 and shall be galvanized according to ASTM A123
   Saddle clip ---- galvanized ASTM A153
5. Grating No.:
   Example: CG1-VL22-1
   Cross Girder No. / Bent No. / Mark No.
6. For additional notes, see Dwg. No. S-408.

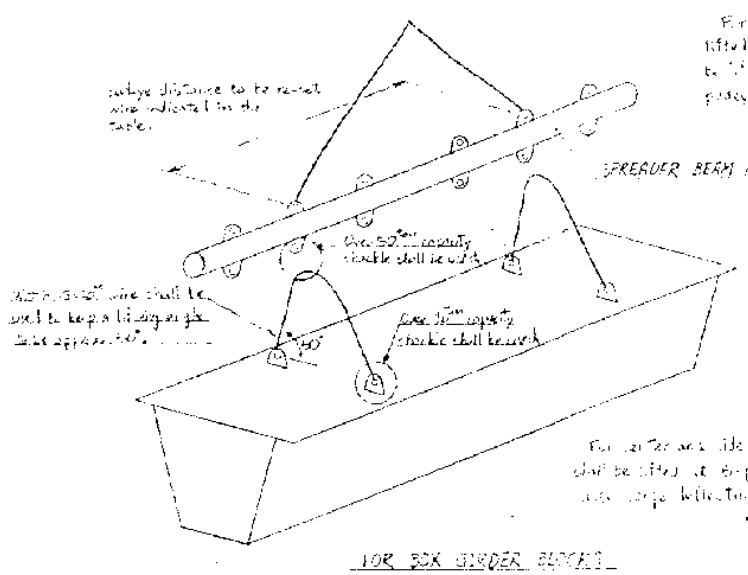
GRATING AT BELL [illegible]

SHOP DRAWINGS

LIFTING PROCEDURE OF GIRDER BLOCK WITH BOLTED PADEYES

IN CASE OF A-PADEYES

For the girder block, blocks over 100 tons shall be lifted at padeyes and blocks under 100 tons shall be lifted at trunnions, except blocks having welded padeyes.

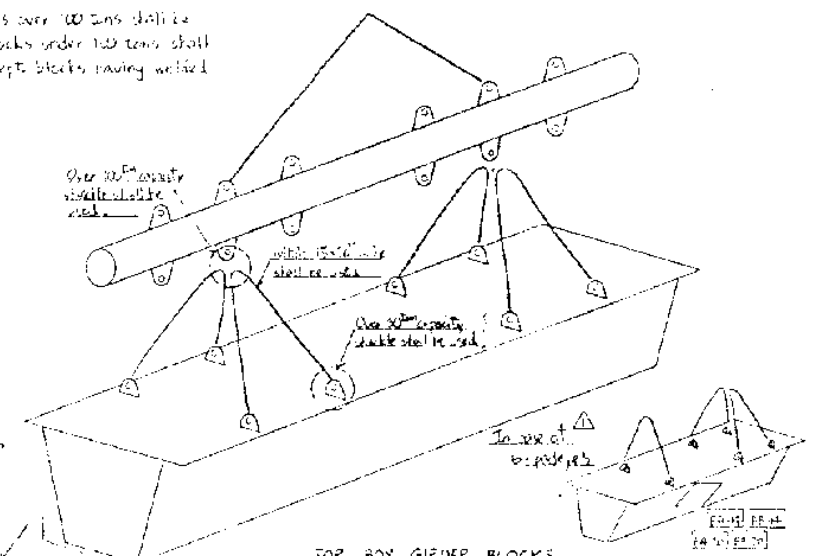


For interior side deck blocks, long blocks shall be lifted at trunnions so as not to [illegible] structure.

FOR BOX GIRDER BLOCKS

FOR SIDE DECK & CENTER DECK BLOCKS, A SIMILAR LIFTING PROCEDURE SHALL BE APPLIED.

IN CASE OF B-PADEYES



FOR SIDE DECK & CENTER DECK BLOCKS, A SIMILAR LIFTING PROCEDURE SHALL BE APPLIED

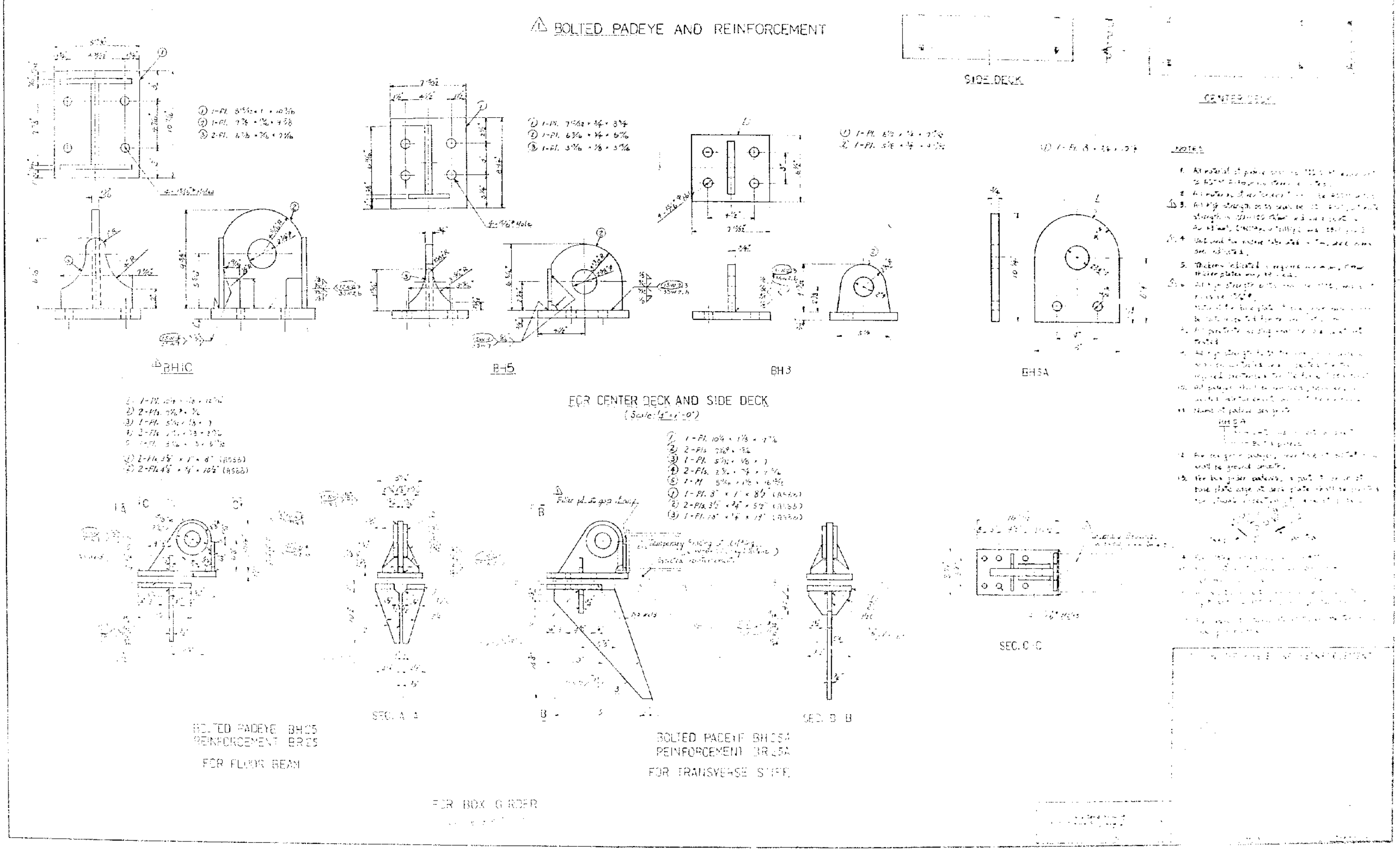
1. Bolted padeyes are provided for the [illegible] at Bel [illegible] 4 [illegible] 23, and onto these blocks at 2 3, [illegible] padeyes. The outer padeyes of side deck blocks are used [illegible]
2. Bolted padeyes (the vertical padeyes) are to be used for temporary stage loading, field welding and available for other field purposes.
3. All blocks shall be lifted at A, B and to provide with spreader beam according to indicated procedure such as equalizer wiring and [illegible] beam, to which the spreader beam, the temp. bracing and wire rope between block and spreader beam with shackles are to be provided.
4. For lifting of each block, subcontractor and the operator shall re-set wires (connected under and on spreader beam) according to padeye distance indicated in below table at spreader beam, in order to meet padeyes location on blocks. For the [illegible] use, a details of spreader beam will be provided with clear indication for the location of padeyes on the beam.
5. Before each operation of lifting, subcontractor and the operator shall check damages of padeye and base of padeye. For reference of check, padeye base plate for box girder blocks is marked by white paint from edge of base plate to deck plate.
   a. If damage is found, they shall be repaired completely to replacement, re-[illegible] and etc. [illegible] before operation.
6. All bolted padeyes shall be removed after all required operations, and all additional bolt holes shall be filled with [illegible] with through bolts.
7. All subcontractor shall have more detailed [illegible] in order to make clear lifting procedure.
8. If subcontractor use these bolted padeyes in other procedure, they shall take their safety by their own responsibility and expense.

— continue to right below —

	Block No.	1	2	3	4	5	6	7	8, 26	9, 25	10, 24	11, 23	12, 22	13, 21	14, 20	15, 19	16, 18	17	27	28	29	30	31	32	33
LENGTH	Ft.	57'-6"	53'-6"	81'-4"	69'-0"	42'-0"	42'-0"	123'-6"	39'-0"	108'-0"	85'-6"	117'-0"	39'-0"	133'-0"	46'-6"	127'-6"	94'-0"	122'-0"	123'-6"	39'-0"	116'-0"	64'-0"	81'-6"	83'-6"	56'-6"
	M.	17.53	25.95	24.89	21.01	12.82	12.81	37.64	11.89	32.92	26.06	35.66	11.89	40.54	14.17	33.36	13.41	37.17	37.64	11.89	35.36	19.51	24.84	25.45	17.22
WEIGHT	Lbs	45,195.2	102,320.6	178,144.0	115,164.3	245,997.0	100,[illegible]	45,[illegible]	65,[illegible]	112,513.7	251,116.8	259,018.5	291,210.1	180,675.1	344,036.3	256,742.5	301,555.4	197,260.2	225,157.8	331,320.7	177,474.0	326,370.5	427,644.3	199,536.1	205,721.4	48,168.7
	Ton	68.947	91.777	89.202	58.730	122.985	50.[illegible]	22.736	50.477	75.273	127,948	117.522	137.125	81.976	156.119	116.580	136.958	89.901	139.205	150.327	89.575	148.081	194.031	90.534	93.340	87.570
BOX GIRDER	NO. OF PADEYES	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	3	4	3	3	3	4	3	4	3	8	4	3	3	4	3	4	4	4
	PADEYE DISTANCE							5.0	16.5	5.0	14.0	16.5	16.5	5.0	16.5	5.0	16.5	5.0	16.5	14.0	5.0	16.5		5.0	5.0	5.0
[illegible]	WEIGHT	Lbs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40,277.4	12,533.6	59,263.0	27,457.3	37,255.6	4,370.0	42,326.4	14,740.0	40,155.2	4,442.4	33,241.1	40,573.2	13,273.0	37,774.4	22,275.3	26,477.1	[illegible]	7,535.4
		Ton	3.813	12.543	[illegible]	[illegible]	[illegible]	[illegible]	5.252	6.637	15.614	3.377	16.405	6.5[illegible]	17.201	6.371	5.370	6.556	17.334	18.442	5.795	17.137	10.076	[illegible]	12.555	3.772
	NO. OF PADEYES		4	4	[illegible]	[illegible]	5	4	3	4	3	4	6	4	6	4	3	4	3	3	4	3	4	4	4	3
	PADEYE DISTANCE		5.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.0	14.0	5.0	5.0	5.0	5.0	5.0	14.0	5.0	5.0	5.0	5.0	14.0	5.0	14.0	5.0	14.0	[illegible]
[illegible]	WEIGHT	Lbs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17,094.1	35,190.0	26,232.0	39,252.9	17,233.5	54,717.7	14,740.0	24,256.5	19,359.4	21,237.1	21,323.6	7,951.6	13,407.5	17,197.6	45,033.1	13,976.6	35,[illegible]
		Ton	4.117	28.400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.758	16.575	12.527	5.342	16.734	3.760	14.767	3.734	10.370	12.361	3.976	11.033	12.390	24.475	[illegible]	[illegible]
	NO. OF PADEYES		[illegible]	[illegible]	[illegible]	[illegible]	4	4	3	4	3	4	5	4	3	4	3	4	3	3	4	3	4	4		3
	PADEYE DISTANCE		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.0	14.0	14.0	14.0	5.0	14.0	5.0	14.0	14.0	14.0	5.0	5.0	14.0	14.0	14.0	[illegible]	[illegible]

LIFTING DIAGRAM

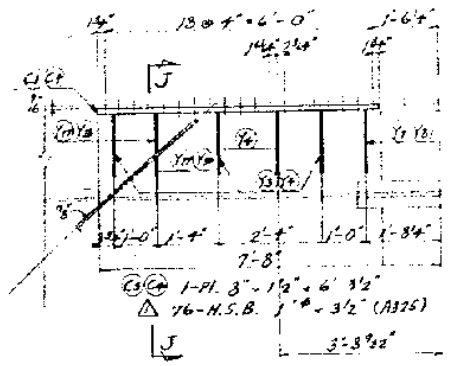
SHOP DRAWINGS


BOLTED PADEYE AND REINFORCEMENT
SIDE DECK
CENTER DECK
NOTES
BH10
BH5
BH3
BH3A
FOR CENTER DECK AND SIDE DECK
(Scale: 1/4" = 1'-0")
SEC. A-A
SEC. B-B
SEC. C-C
BOLTED PADEYE BH05
REINFORCEMENT BR05
FOR FLOOR BEAM
BOLTED PADEYE BH03A
REINFORCEMENT BR03A
FOR TRANSVERSE STIFF.
FOR BOX GIRDER

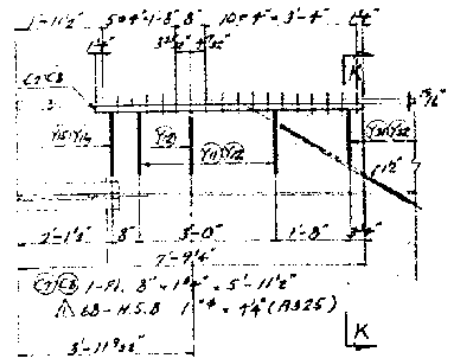
REINFORCEMENT FOR QUICK CONNECT (4/4)

Scale: 1/2" = 1'-0"

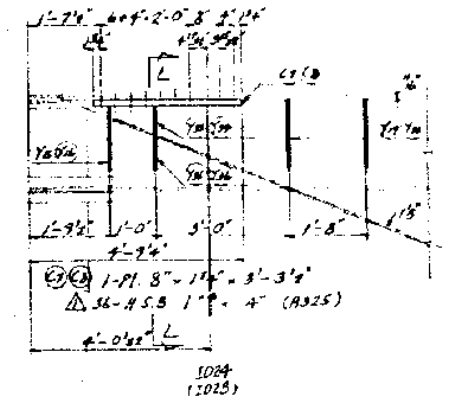
FS12. (FS21)
Block 12. (Block 22) [-1]



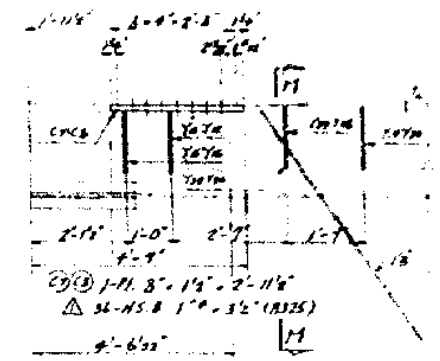
FS13. (FS20)
Block 14. (Block 20) [-1]

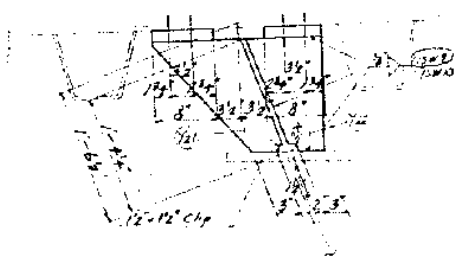


FS15. (FS18)
Block 16. (Block 18) [-1]

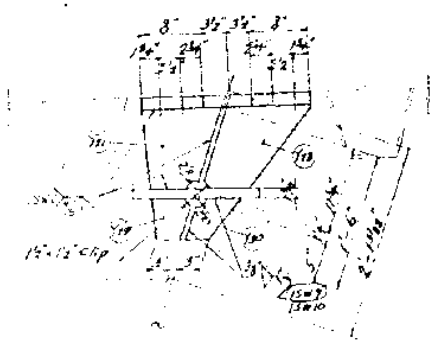


FS25
Block 26 [-1]

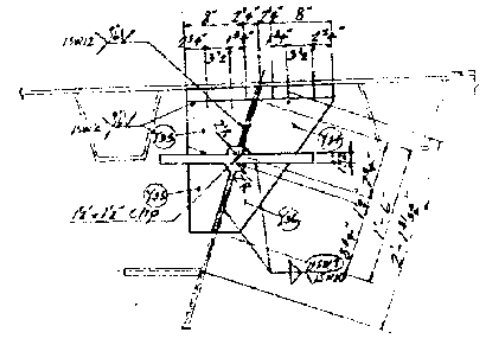




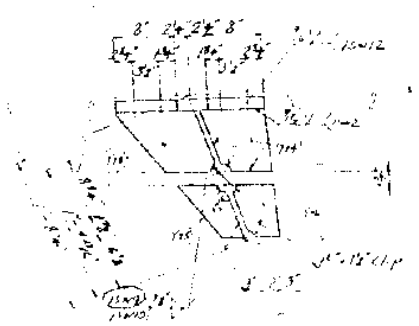
SEC. N-N
(See Dwg. No. S-250, FS12(21))



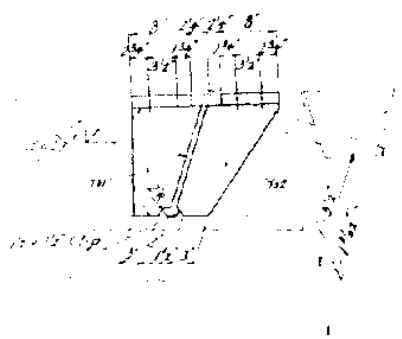
SEC. J-J



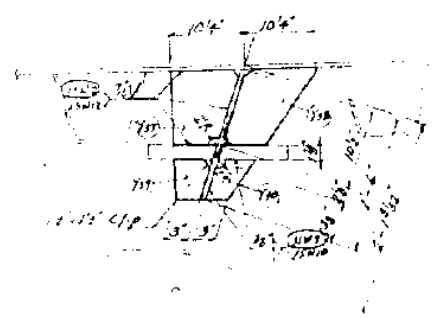
SEC. L-L



SEC. I-I
(See Dwg. No. S-251 or S-250)



SEC. K-K



SEC. H-H

		N3	N4	N7	N8	N11	N12	N14	N15	N19	N20	N17	N18	N21	N22	N31	N32	N33	N34	N35	N36	N37	N38	N39	N40
FS12. (FS21)	Block 22	3	4	1	1							1	1	1	1										
FS13. (FS20)	Block 14 (Block 20)					2	3	1	1							1	1								
FS15. (FS18)	Block 16 (Block 18)							1	1	2	2							1	1	1	1				
FS25	Block 26					1	1	1	1	1	1											1	1	1	1

(3) N3-Pl. 9½" x 1" x 1'-7½"
(4) N4-Pl. 11" x 1" x 1'-10"
(7) N7-Pl. 9½" x 1" x 1'-7½"
(8) N8-Pl. 11" x 1" x 1'-10"
(11) N11-Pl. 9" x 1" x 1'-7"
(12) N12-Pl. 9½" x 1" x 1'-9½"
(15) N15-Pl. 9" x 1" x 1'-7"
(14) N14-Pl. 9½" x 1" x 1'-9½"
(19) N19-Pl. 9" x 1" x 1'-7"
(20) N20-Pl. 9½" x 1" x 1'-9½"
(17) N17-Pl. 7½" x 1" x 1'-1½"
(18) N18-Pl. 11" x 1" x 1'-9¼"
(21) N21-Pl. 4½" x 1" x 6"
(22) N22-Pl. 5" x 1" x 7"
(31) N31-Pl. 3" x 1" x 1'-5"
(32) N32-Pl. 10" x 1" x 1'-7½"
(33) N33-Pl. 8¼" x 1" x 10"
(34) N34-Pl. 10¼" x 1" x 1'-0"
(35) N35-Pl. 5½" x 1" x 10"
(36) N36-Pl. 6½" x 1" x 10¼"
(37) N37-Pl. 8½" x 1" x 1'-0½"
(38) N38-Pl. 7½" x 1" x 1'-2½"
(39) N39-Pl. 9½" x 1" x 6¼"
(40) N40-Pl. 6¼" x 1" x 7"

NOTES:
1. For General notes, see Dwg. No. S-1
2. In drawing above the connection of stiffener plate and (LB) on Dwg. No. S-250 & S-251.
3. For additional notes, see Dwg. No. S-250
4. Work with Dwg. No. S-250 & S-251.

REINFORCEMENT FOR QUICK CONNECT (4/4)

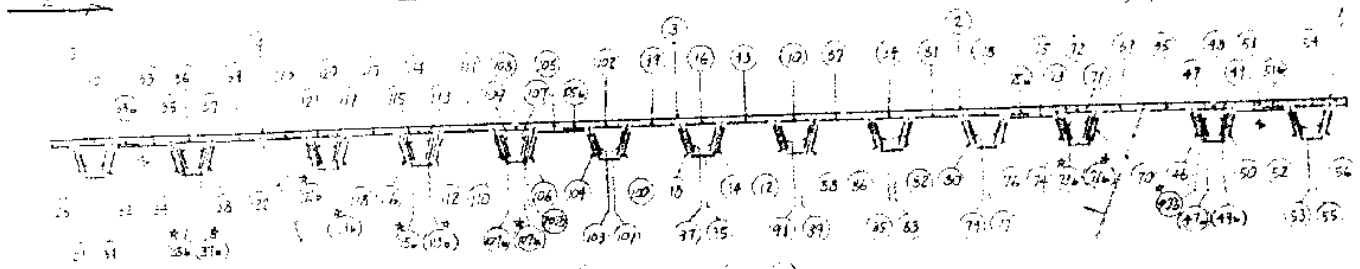
GIRDER PIECE MARKS (BLOCK 1 ~ 5) (2/3)

DIRECTION

AJ3 - (1) ~ (174) , BJ3 - (1) ~ (174) (BLOCK 4 SIDE)

Dark splice plates of 3rd + side is shown.
See & 2nd lift splice plates which is 3rd & 4th.

KEY:
○ : Filler plates & splice plates

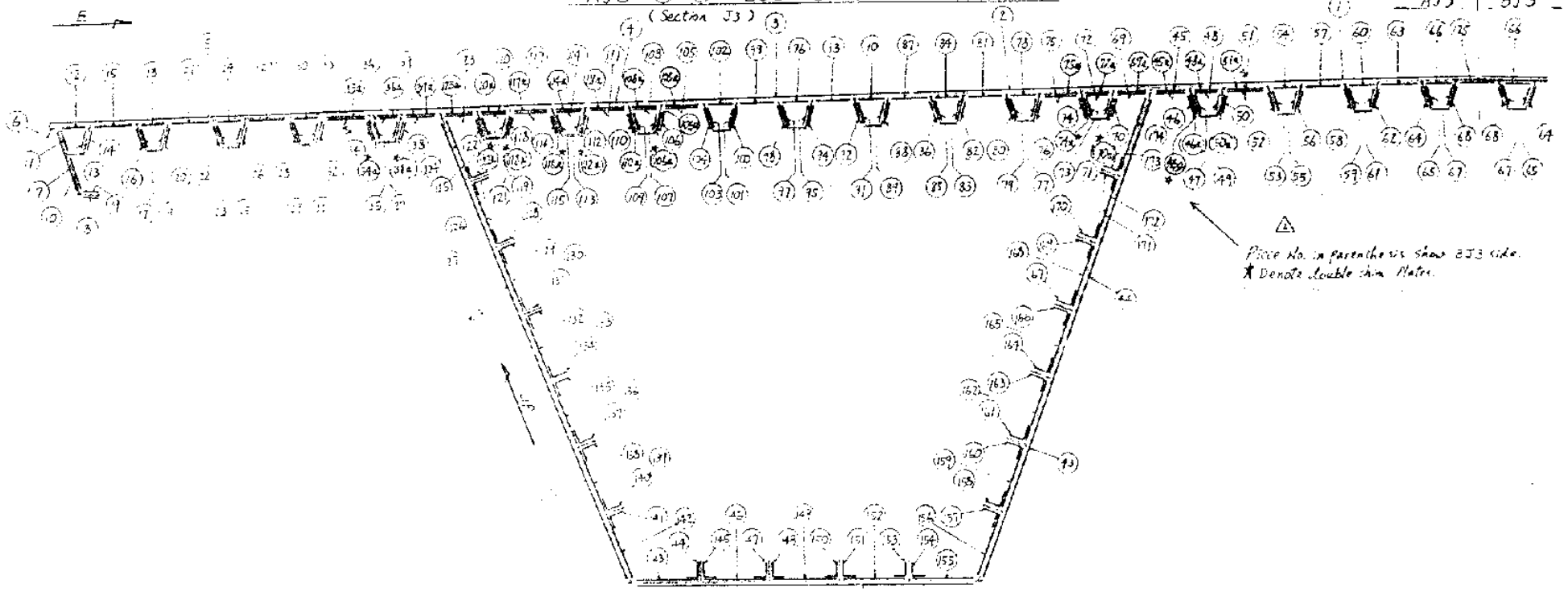


AJ3 - (1) ~ (174) , BJ3 - (1) ~ (174) (BLOCK 3 SIDE)

(Sym. about ℄)

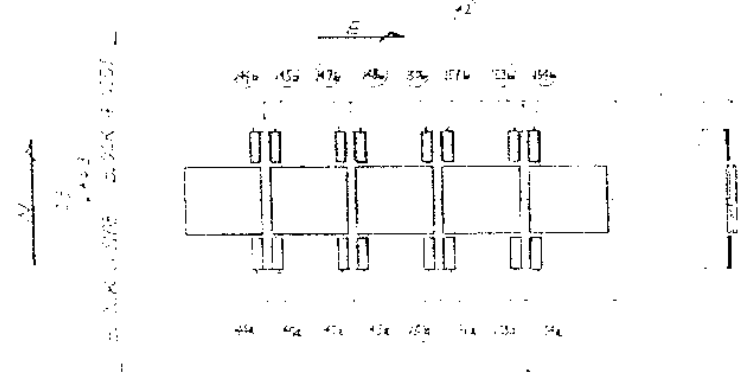
(Section J3)

AJ3 | BJ3



Piece No. in parenthesis show BJ3 side.
* Denote double shim Plates.

KEY PLAN



1. COLOR AND SIZE OF LETTER
(1) Letters shall be white-color paint.
(2) Letters shall be a legible
(3) Size of letters shall be between 3 inches to 1 inches in stencil height.

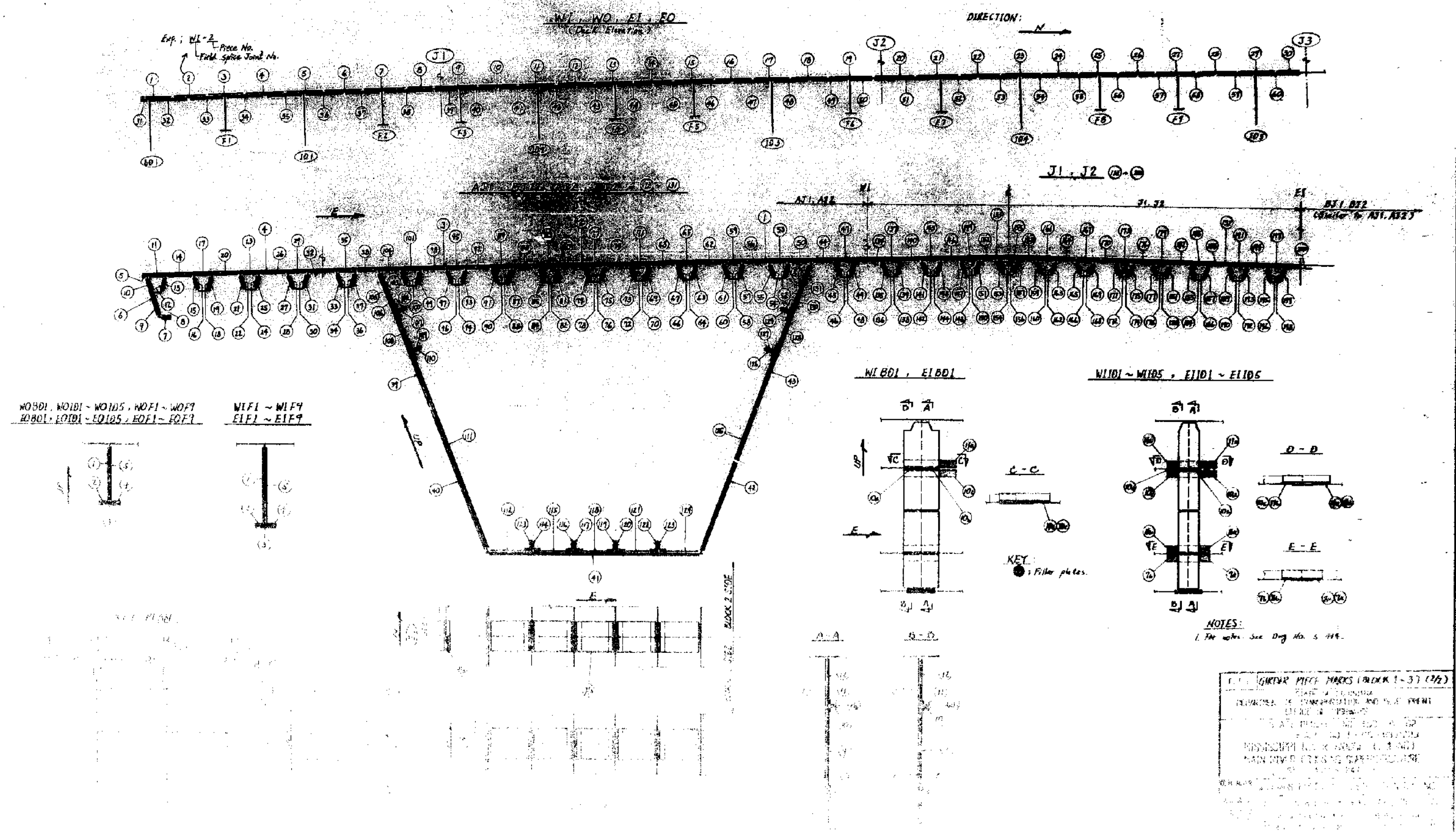
4. IDENTIFICATION OF MARKS
(1) Girder Block
Exp.: BA1 ~ See Dwg. No. [illegible]
(2) Splice plates
Exp.: A3 1 - 1
Piece No. in front of the girder
Pick Splice Plate No.

5. WEIGHT INDICATION
Member weighing more than 3 tons shall be indicated their own weight.
Weight of members shall be indicated on the same surface as that indicating the piece marks. [illegible]

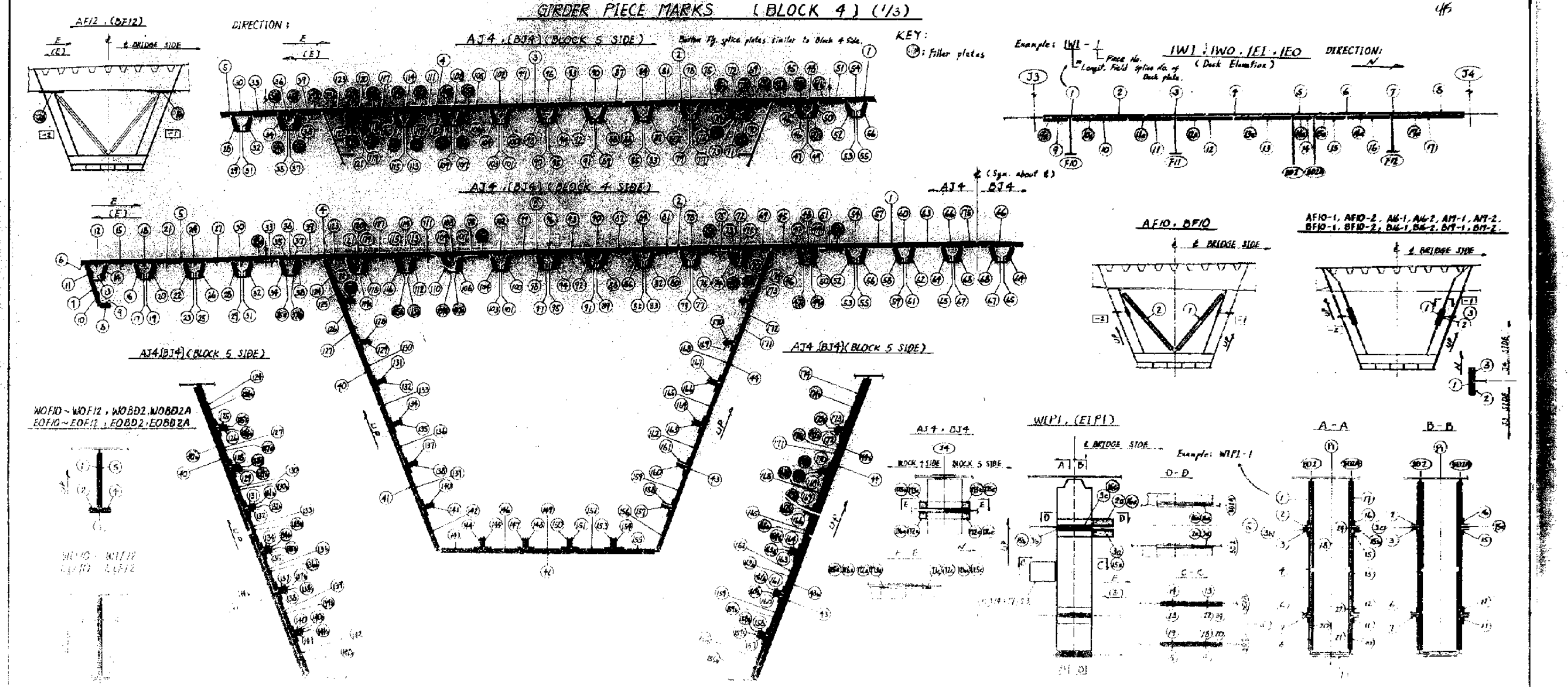
6. RELATED DWGS
See also Dwg. No. [illegible]

7. SPLICE PLATE PROCEDURE
(1) Piece No. of splice plate shall be decided the strength on the both of splice plate and of block material check the splice plate before 2 stage.
(2) No. of piece marks of [illegible]
(3) Location of stamp are along the edge [illegible]
(4) Type of stamp is [illegible] mm of height
(5) Stamps [illegible]
(6) Piece No. [illegible]

GIRDER PIECE MARKS (BLOCK 1 ~ 3) (2/2)



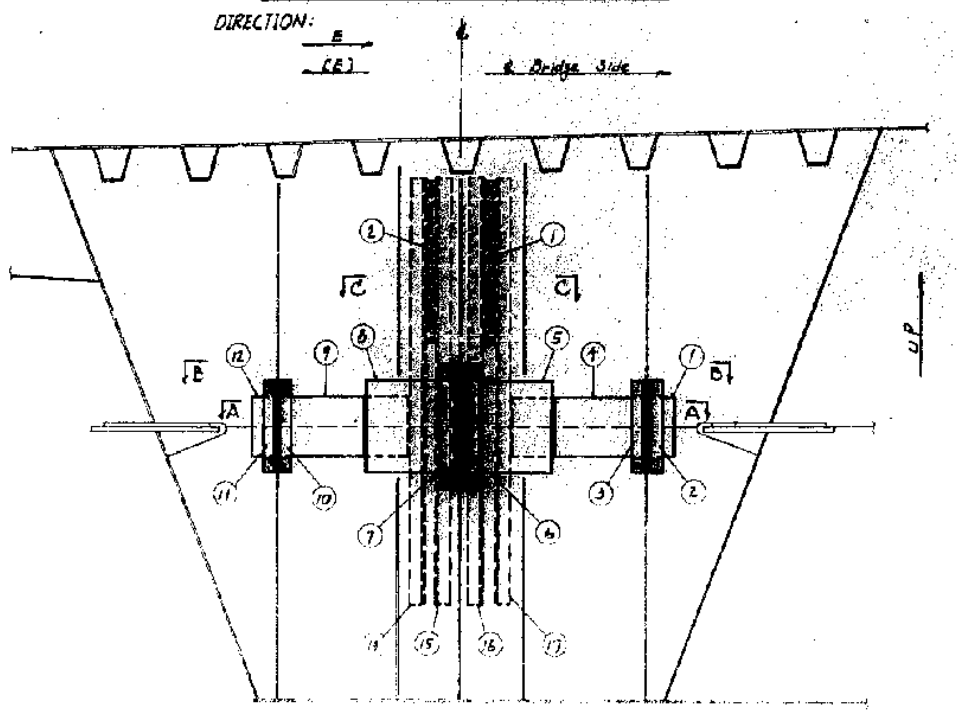
GIRDER PIECE MARKS (BLOCK 4) (1/3)



GIRDER PIECE MARKS (BLOCK 4) (2/3)

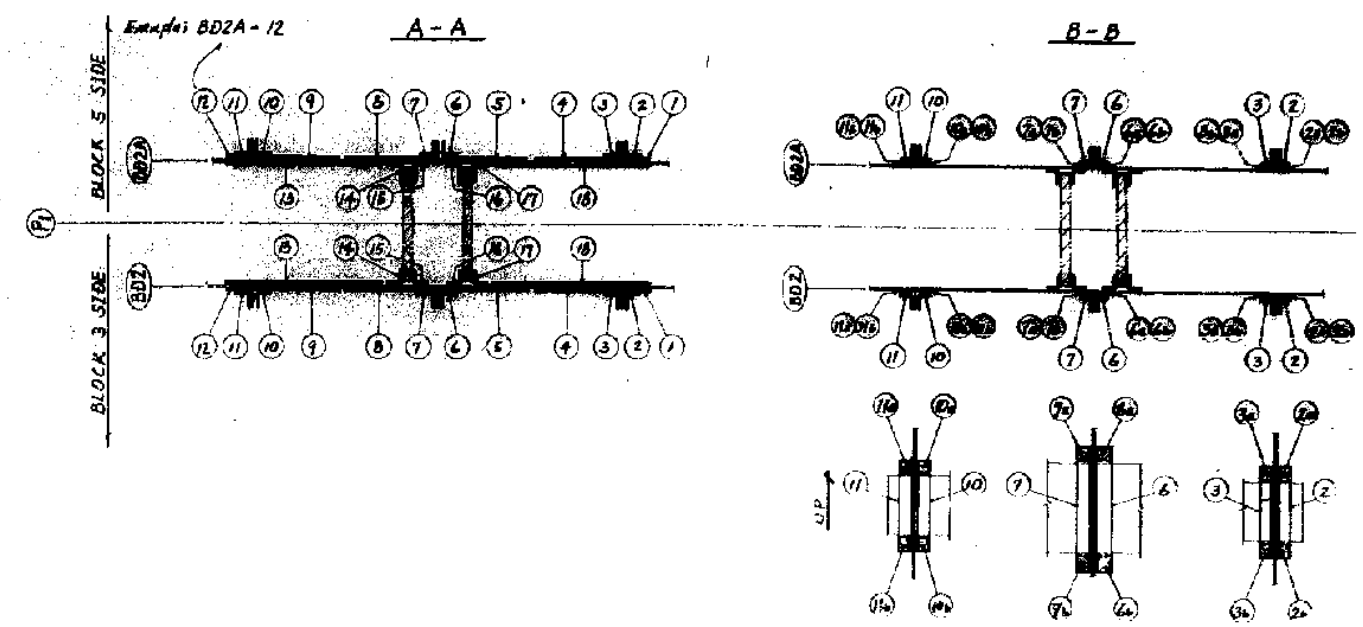
ABD2, ABD2A, (BBD2, BBD2A)

DIRECTION: E (CE) ℄ Bridge Side



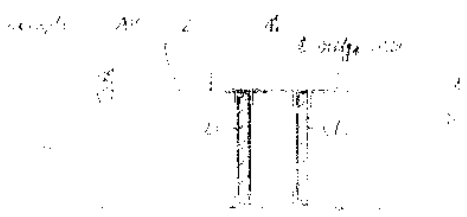
KEY:

(S); Filler plates



C - C

APL, BPL

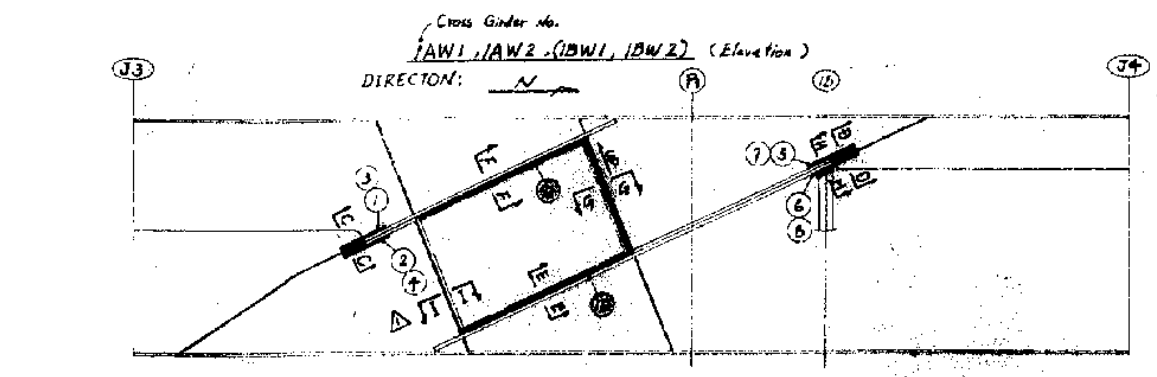


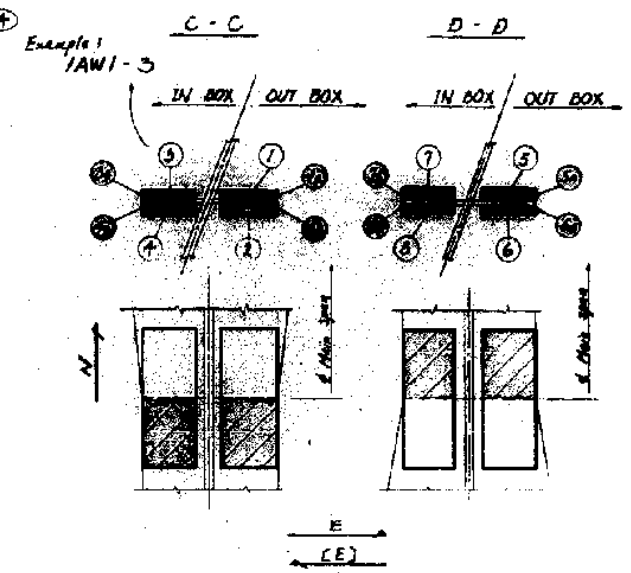
NOTES:
1 For notes see Dwg. No. S-416

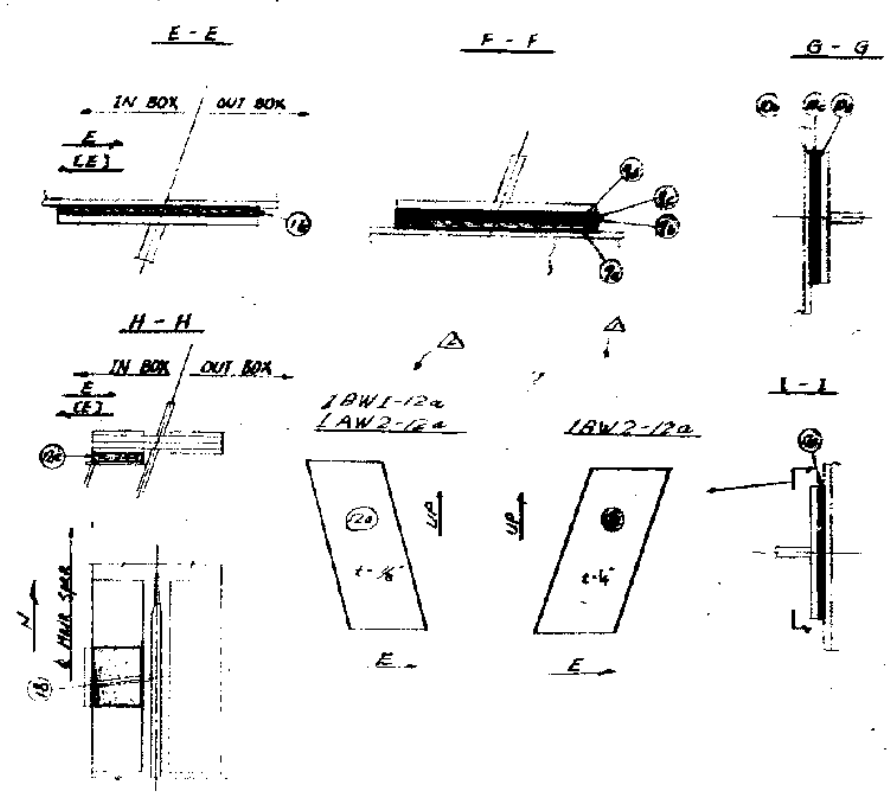
[illegible] GIRDER PIECE MARKS (BLOCK 4) (2/3)	
[illegible]	
[illegible]	
[illegible]	
[illegible]	

GIRDER PIECE MARKS (BLOCK 4, CG1) (3/3)

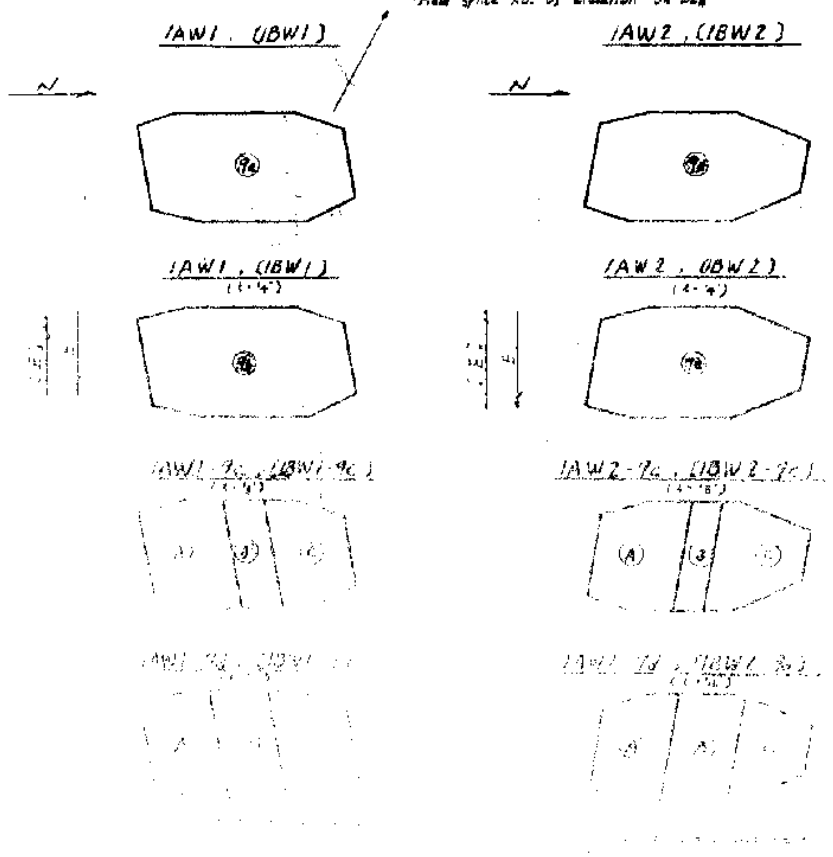
KEY:
○ : Filler plates & shim plates.

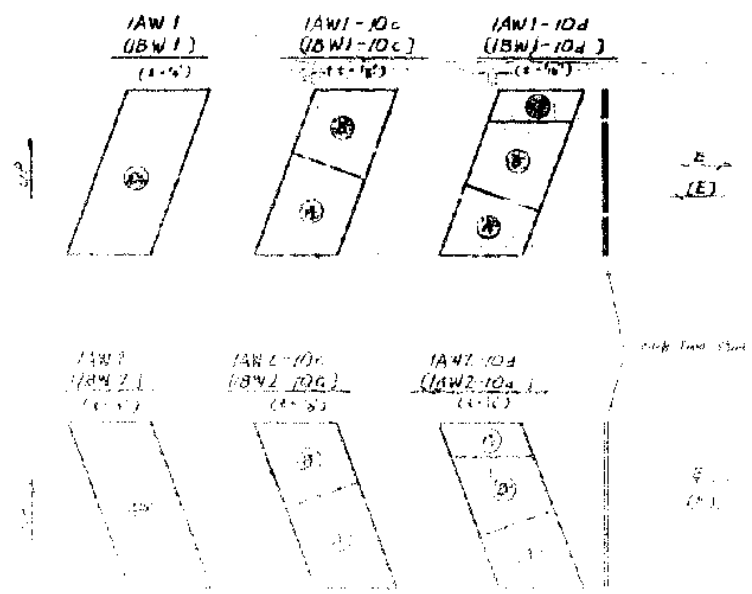




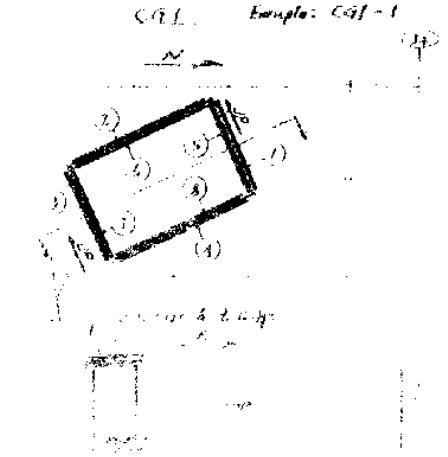


Example: 1AW1-9a
piece No.
Field splice No. of elevation on web





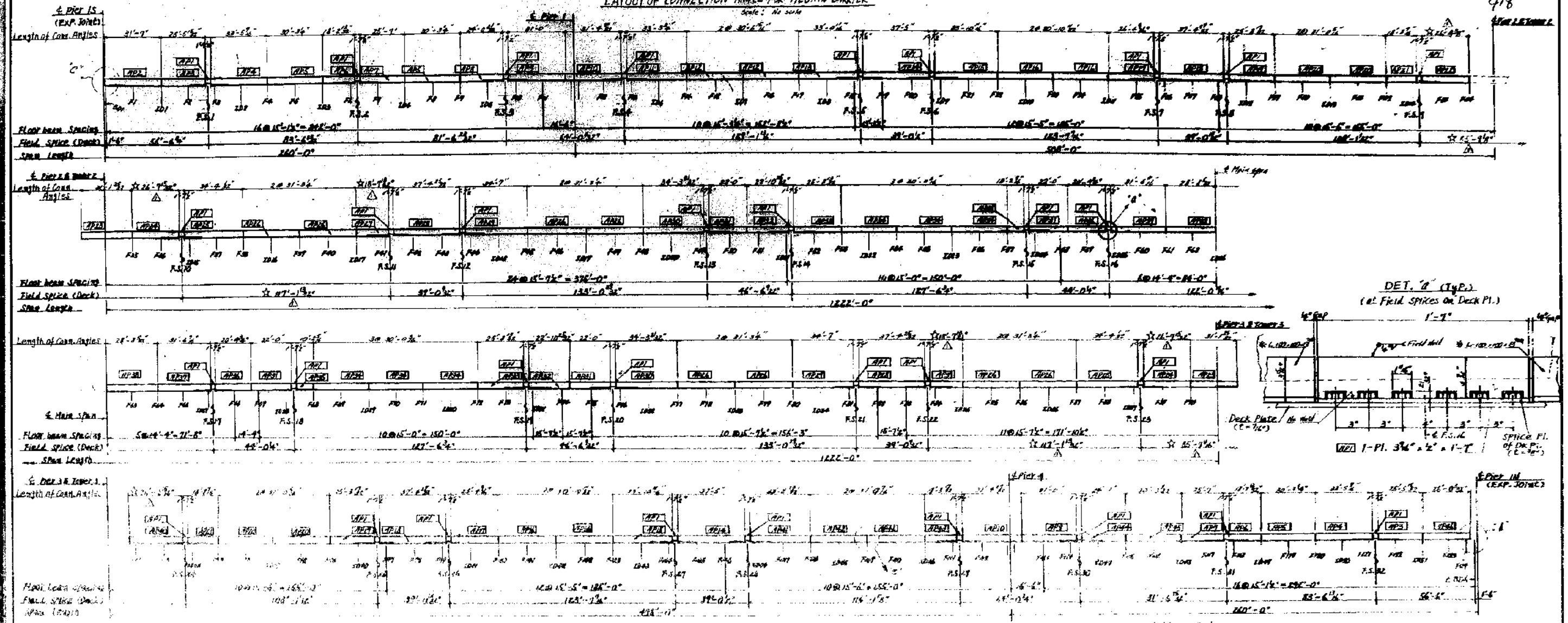
CROSS GIRDER
CG1 Example: CG1-1



NOTES:
1. for notes, see Dwg. no. S-416

LAYOUT OF CONNECTION ANGLE FOR MEDIAN BARRIER

Scale: No scale

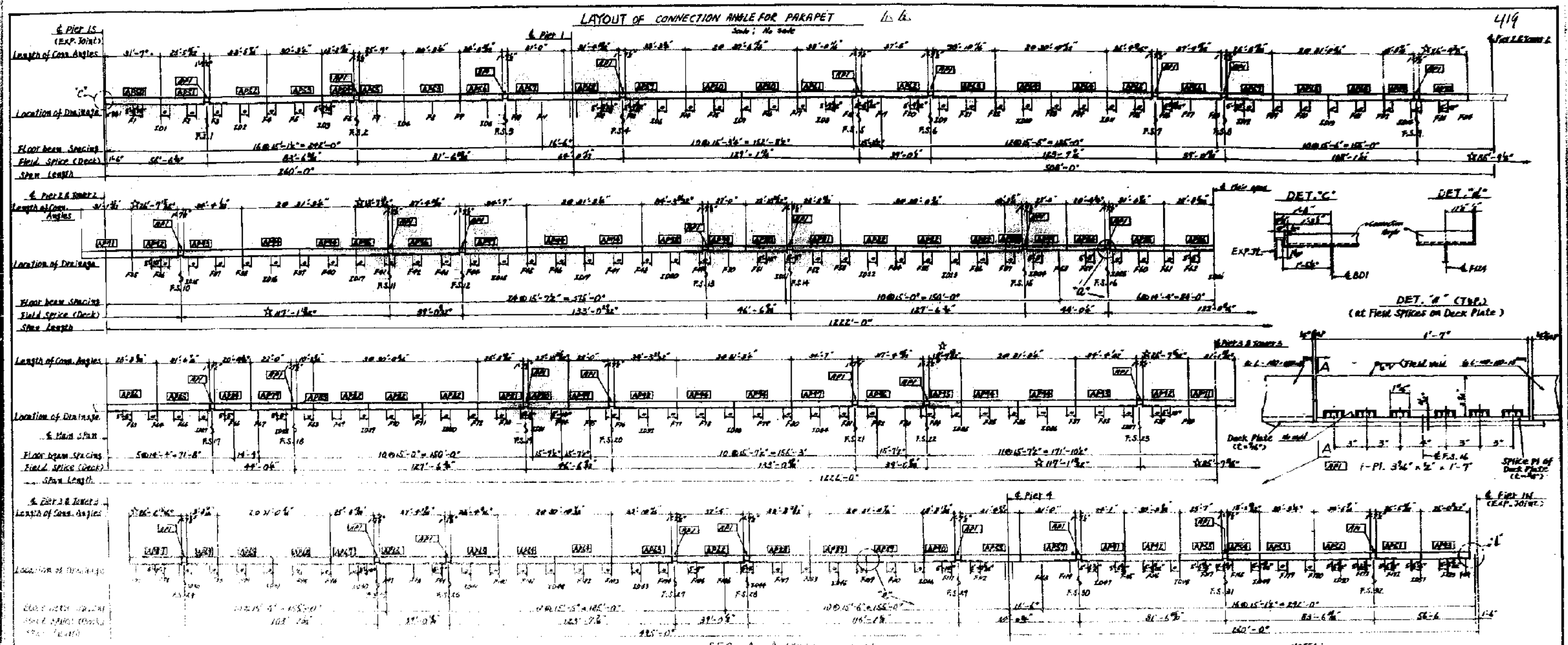


NOTES:

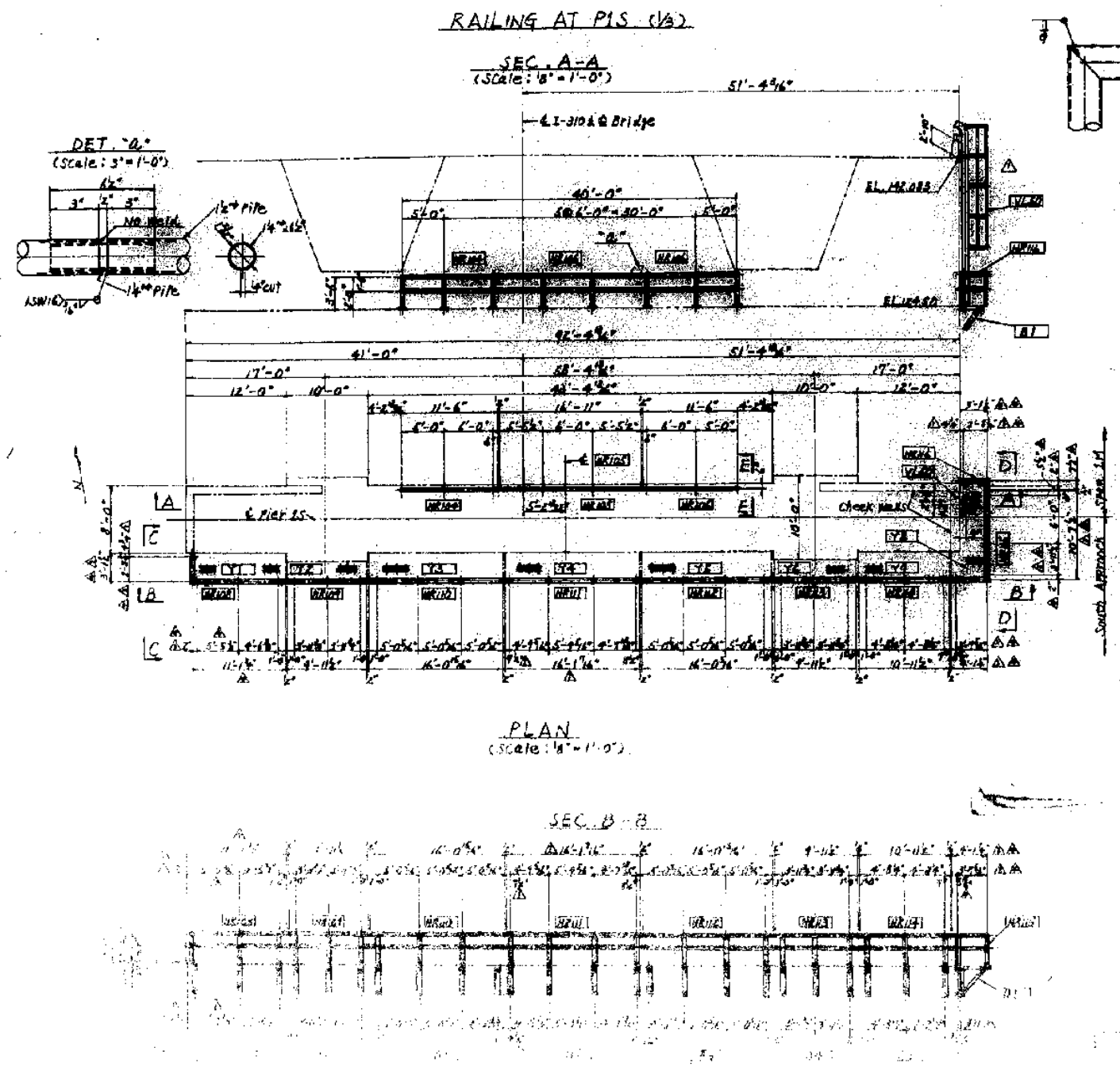
1. For general notes, see Dwg. No. ...
2. All rivets are ASTM A502 ...
3. Bearings substituted shown ... for original ...
4. Dimensions of connection angles and splices are measured in a vertical plane along the x plate. Floor beam spacing and span length are measured in a horizontal plane. Floor beam spacing adjusted increments due to actual center and actual span length.

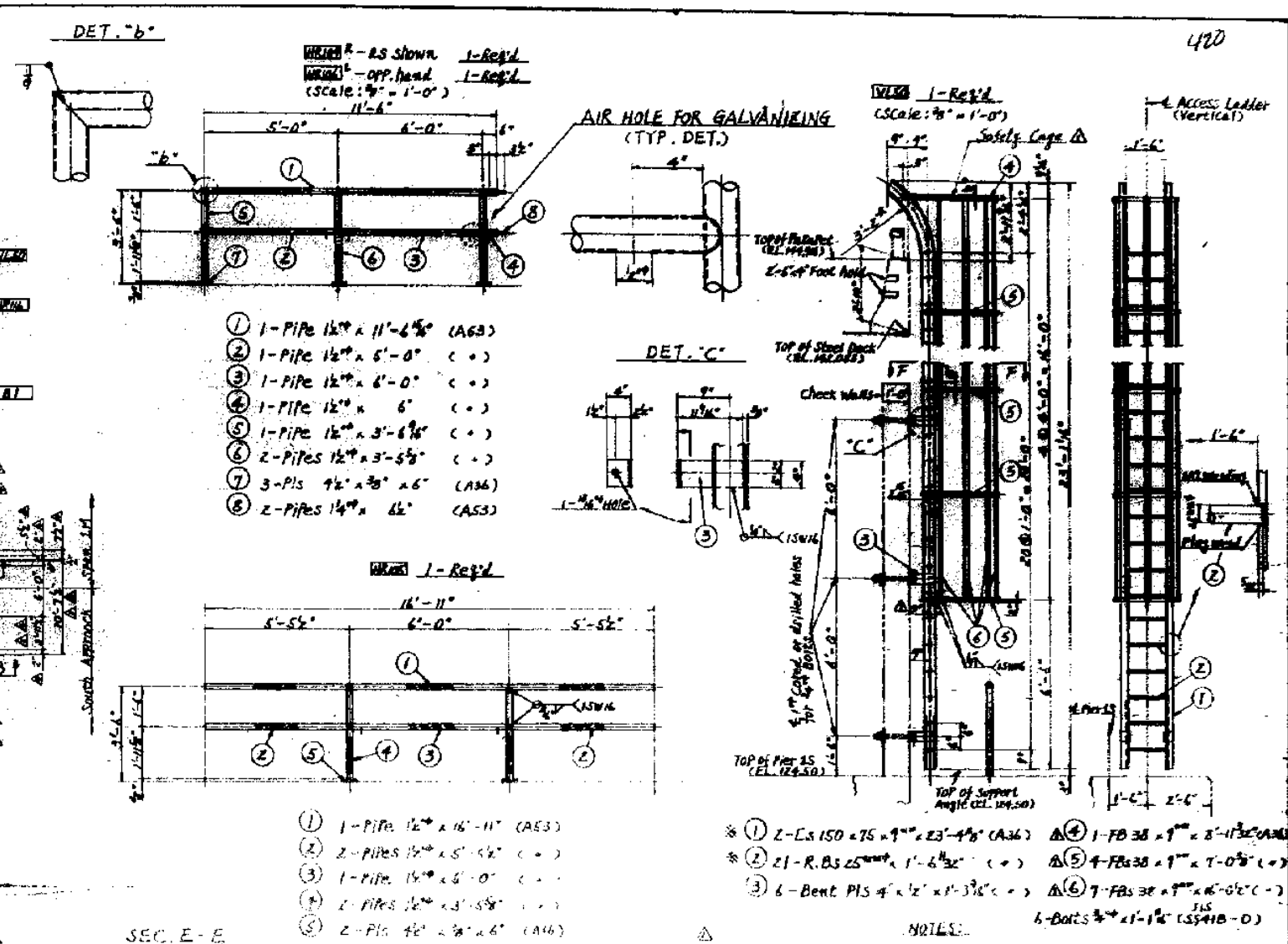
TITLE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT


LAYOUT OF CONNECTION ANGLE FOR PARAPET
Scale: No Scale
419
℄ Pier 1S (Exp. Joint)
℄ Pier 1
Length of Conn. Angles
Location of Drainage
Floor beam Spacing
Field Splice (Deck)
Span Length
℄ Pier 2 & Tower 2
℄ Pier 3 & Tower 3
℄ Pier 4
℄ Pier 1N (Exp. Joint)
DET. "C"
DET. "d"
DET. "A" (TYP.)
(at Field Splices on Deck Plate)
Deck Plate
Field Weld
1-Pl. 3¾" x ½" x 1'-7"
Splice Pl of Deck Plate
SEC. A-A (TYP.)
Scale: No Scale
DET. "B" (TYP.)
DET. "b" (TYP.)
Scale: No Scale
NOTES:
1. For General Notes, see Dwg. No. S-1
2. All material per ASTM A588.
3. ⅜ Denotes substituted shapes, see Dwg. No. S-135.
4. Dimensions of Connection Angles and Field Splices are measured in actual length along Deck Plate. Floor beam spacing and span length are measured in a horizontal plane.
5. ⅜ Denotes adjusted dimensions due to axial crushing and actual sag in girder.
TITLE CONNECTION ANGLE FOR PARAPET
STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
(STATE HIGHWAYS)

RAILING AT PIS. (1/3)



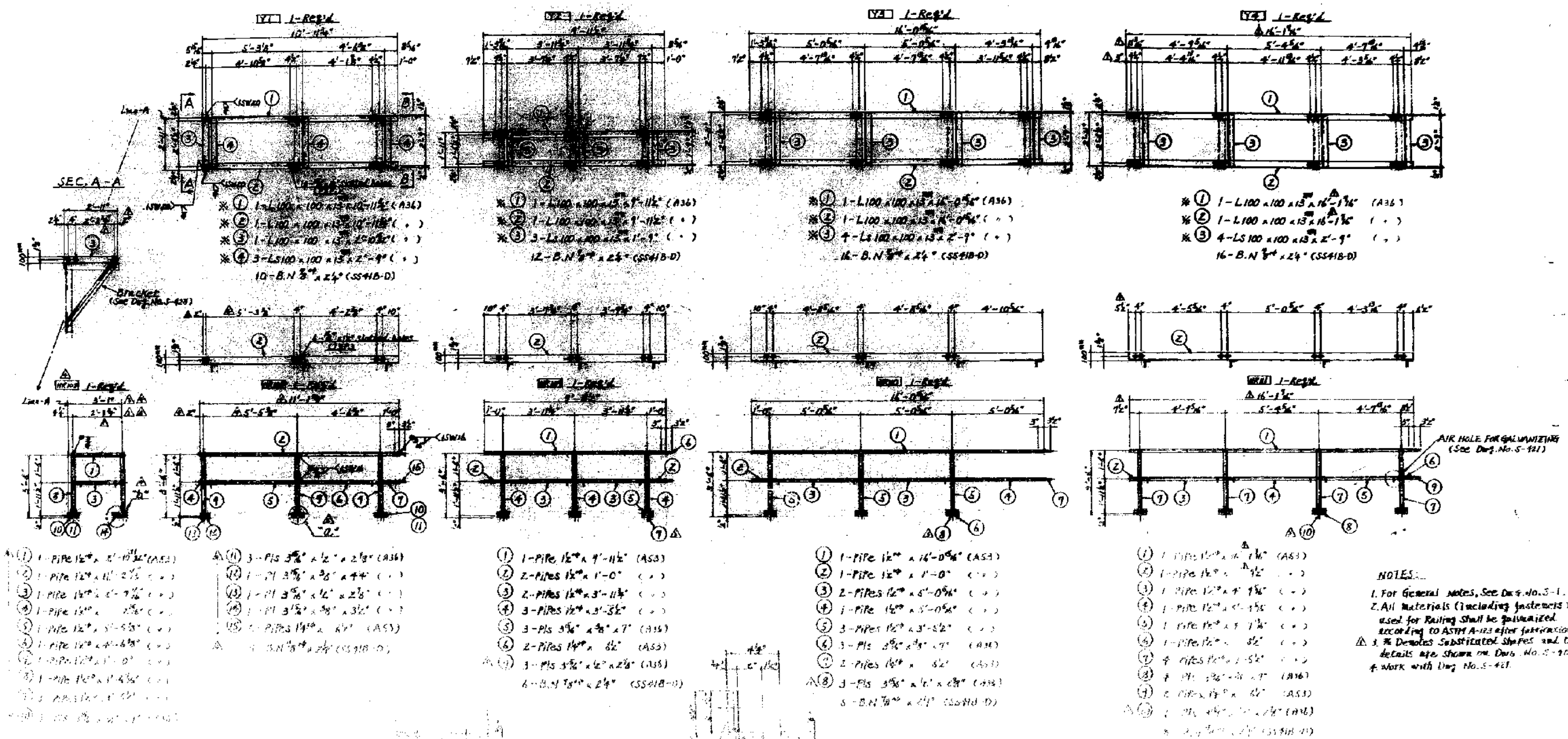


NOTES:

1. For General Notes, See Dwg. No. S-1.
2. All materials (including fasteners) used for Railing and Exterior Access Ladder shall be galvanized according to ASTM A-123 after fabrication.
3. * Denotes Substituted Shapes and these details are shown on Dwg. No. S-425.
4. Work with Dwg. No. S-422 & S-423.
5. For grating details see Dwg. No. S-408.

RAILING AT PIS (5/4)

Scale: 3/8" = 1'-0"

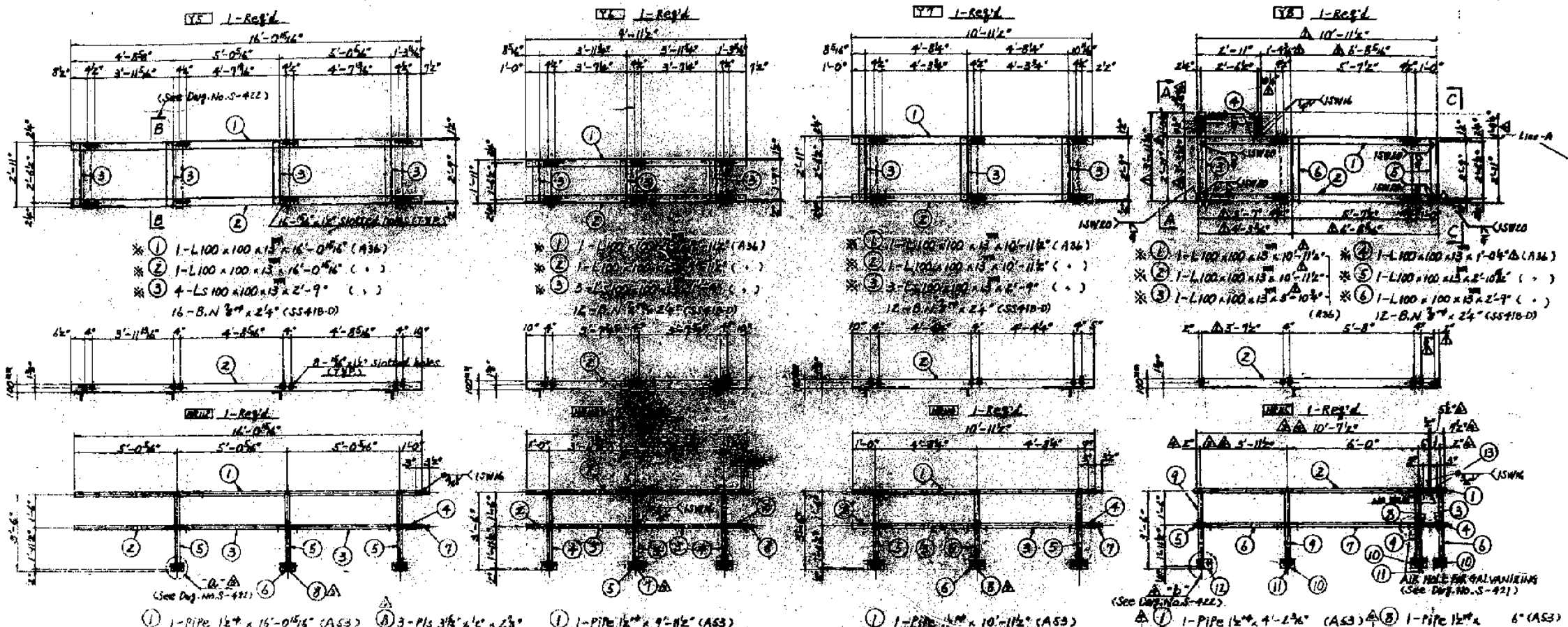


NOTES:

1. For General notes, See Dwg. No. S-1.
2. All Materials (including fasteners) used for Railing shall be galvanized according to ASTM A-123 after fabrication.
3. ※ Denotes Substituted Shapes and these details are shown on Dwg. No. S-415 & work with Dwg. No. S-421.

RAILING AT PIS (3/3)

Scale: 3/8" = 1'-0"



※ ① 1-L100 x 100 x 13 x 16'-0 15/16" (A36)
※ ② 1-L100 x 100 x 13 x 16'-0 15/16" (")
※ ③ 4-Ls 100 x 100 x 13 x 2'-9" (")
16-B.N 3/4" x 2 1/4" (SS41B-D)

※ ① 1-L100 x 100 x 13 x 10'-11 1/2" (A36)
※ ② 1-L100 x 100 x 13 x 10'-11 1/2" (")
※ ③ 3-Ls 100 x 100 x 13 x 2'-9" (")
12-B.N 3/4" x 2 1/4" (SS41B-D)

※ ① 1-L100 x 100 x 13 x 10'-11 1/2" (A36)
※ ② 1-L100 x 100 x 13 x 10'-11 1/2" (")
※ ③ 1-L100 x 100 x 13 x 8'-10 3/4" (A36)
※ ④ 1-L100 x 100 x 13 x 1'-0 3/4" (A36)
※ ⑤ 1-L100 x 100 x 13 x 2'-10 3/4" (")
※ ⑥ 1-L100 x 100 x 13 x 2'-9" (")
12-B.N 3/4" x 2 1/4" (SS41B-D)

① 1-Pipe 1 1/2" x 8 3/4" (AS3)
② 1-Pipe 1 1/2" x 2'-10 31/32" (")
③ 1-Pipe 1 1/2" x 5 1/2" (")
④ 1-Pipe 1 1/2" x 2 5/8" (")
⑤ 1-Pipe 1 1/2" x 2'-9 5/8" (")
⑥ 1-Pipe 1 1/2" x 3'-5 1/2" (")
⑦ 1-Pipe 1 1/2" x 3'-6 3/4" (")
⑧ 1-Pl 3 15/16" x 3/8" x 7" (A36)
⑨ 1-Pl 3 5/8" x 1/2" x 2 5/8" (")
⑩ 1-Pl 3 5/8" x 3/8" x 4 1/4" (")
⑪ 1-Pl 3 5/8" x 1/2" x 2 5/8" (")
⑫ 1-Pl 3 5/8" x 3/8" x 3 1/2" (")
⑬ 2-Pipes 1 1/4" x 6 1/2" (AS3)
4-B.N 3/8" x 2 1/4" (SS41B-D)

1/4" EXPANSION BOLT DETAIL

BRACKET DETAIL
Scale: 3/4" = 1'-0"
3-Req'd.

① 1-Pipe 1 1/2" x 16'-0 15/16" (AS3)
② 1-Pipe 1 1/2" x 5'-0 15/16" (")
③ 2-Pipes 1 1/2" x 5'-0 5/8" (")
④ 1-Pipes 1 1/2" x 1'-0" (")
⑤ 4-Pipes 1 1/2" x 3'-5 1/2" (")
⑥ 3-Pls 3 5/8" x 1/2" x 7" (A36)
⑦ 2-Pipes 1 1/4" x 6 1/2" (AS3)
⑧ 3-Pls 3 15/16" x 1/2" x 2 5/8" (A36)
6-B.N 3/8" x 2 1/4" (SS41B-D)

① 1-Pipe 1 1/2" x 9'-11 1/2" (AS3)
② 2-Pipes 1 1/2" x 1'-0" (")
③ 2-Pipes 1 1/2" x 3'-11 3/4" (")
④ 3-Pipes 1 1/2" x 3'-5 1/2" (")
⑤ 3-Pls 3 5/8" x 3/8" x 7" (A36)
⑥ 2-Pipes 1 1/4" x 6 1/2" (AS3)
⑦ 3-Pls 3 5/8" x 1/2" x 2 5/8" (A36)
6-B.N 3/8" x 2 1/4" (SS41B-D)

① 1-Pipe 1 1/2" x 10'-11 1/2" (AS3)
② 1-Pipe 1 1/2" x 1'-0" (")
③ 2-Pipes 1 1/2" x 4'-8 1/4" (")
④ 1-Pipe 1 1/2" x 7" (")
⑤ 3-Pipes 1 1/2" x 3'-5 1/2" (")
⑥ 3-Pls 3 15/16" x 3/8" x 7" (A36)
⑦ 2-Pipes 1 1/4" x 6 1/2" (AS3)
⑧ 3-Pls 3 5/8" x 1/2" x 2 5/8" (A36)
6-B.N 3/8" x 2 1/4" (SS41B-D)

※ ① 1-L100 x 100 x 13 x 2'-0" (A36)
※ ② 1-L100 x 100 x 13 x 2'-5 1/2" (")
※ ③ 1-L100 x 100 x 13 x 3'-10 1/2" (")
※ ④ 2-Ls 100 x 100 x 13 x 2'-10 3/4" (")
※ ⑤ 2-L100 x 100 x 13 x 2'-9" (")

① 1-Pipe 1 1/2" x 4'-2 3/8" (AS3)
② 1-Pipe 1 1/2" x 10'-8 3/16" (")
③ 1-Pipe 1 1/2" x 5 15/16" (")
④ 1-Pipe 1 1/2" x 3'-8 1/4" (")
⑤ 1-Pipe 1 1/2" x 2 5/8" (")
⑥ 1-Pipe 1 1/2" x 3'-11 1/2" (")
⑦ 1-Pipe 1 1/2" x 6'-0" (")
⑧ 1-Pipe 1 1/2" x 6" (AS3)
⑨ 4-Pipes 1 1/2" x 3'-5 1/2" (")
⑩ 3-Pls 3 15/16" x 3/8" x 7" (A36)
⑪ 3-Pls 3 15/16" x 1/2" x 2 5/8" (")
⑫ 1-Pl 3 15/16" x 3/8" x 4 1/4" (")
⑬ 1-Pl 3 15/16" x 1/2" x 2 5/8" (")
⑭ 1-Pl 3 15/16" x 3/8" x 3 1/2" (")
8-B.N 3/8" x 2 1/4" (SS41B-D)

SEC. A-A
Scale: 3/4" = 1'-0"

1 1/4" Standard Weight Pipe (2 1/2" Steel)

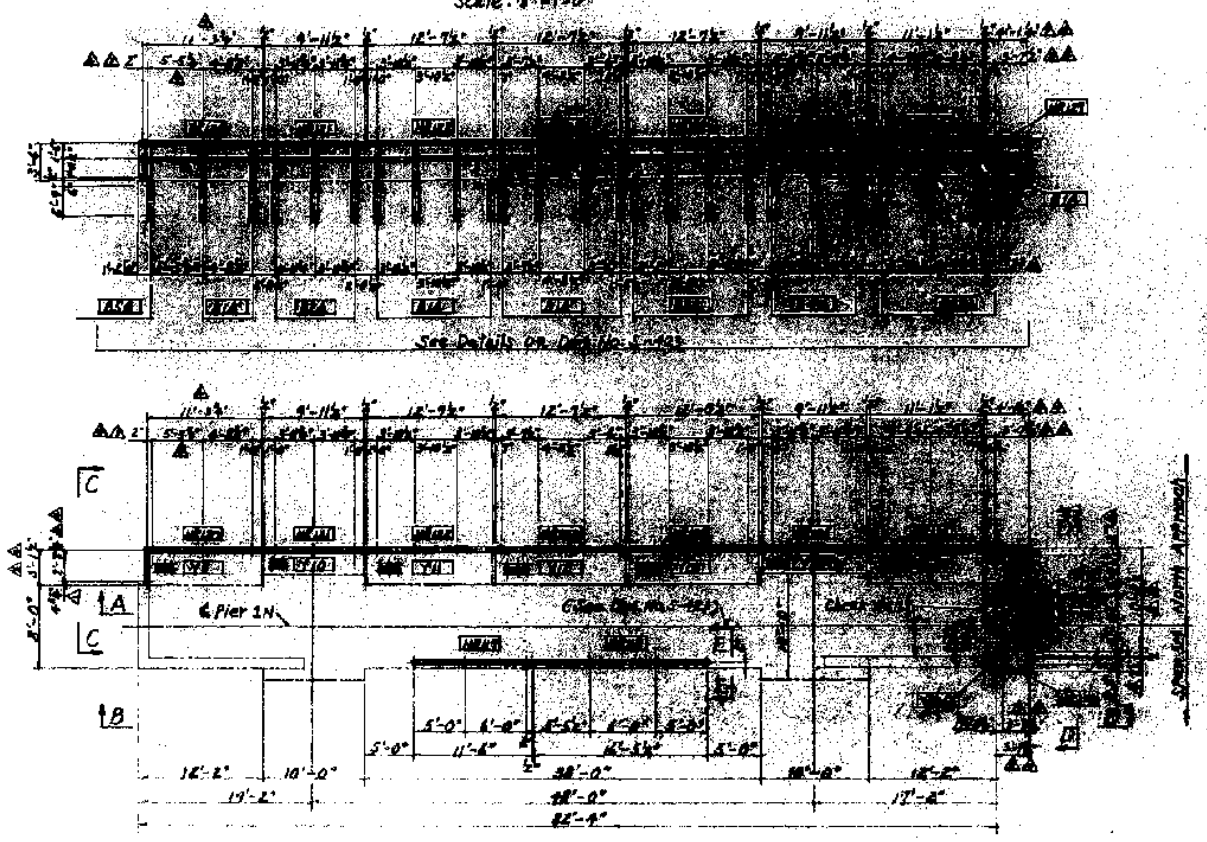
NOTES:

1. For General Notes, See Dwg. No. S-1.
2. All materials (including fasteners) used for Railing shall be galvanized according to ASTM A-123 after fabrication.
3. ※ Denotes substituted shapes and these details are shown on Dwg. No. S-425 & work with Dwg. No. S-421.

RAILING AT PIS (3/3)

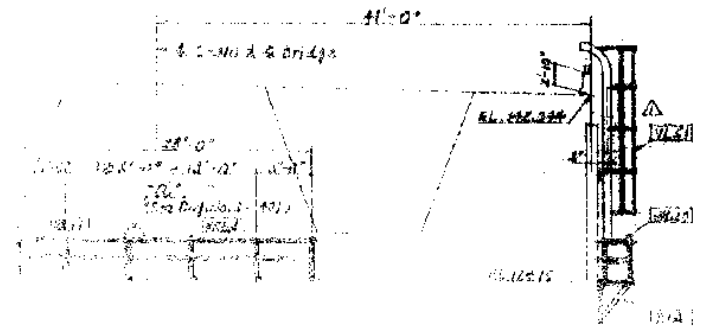
RAILING AT PIN (1/3)

SEC. A-A
Scale: 3/8" = 1'-0"

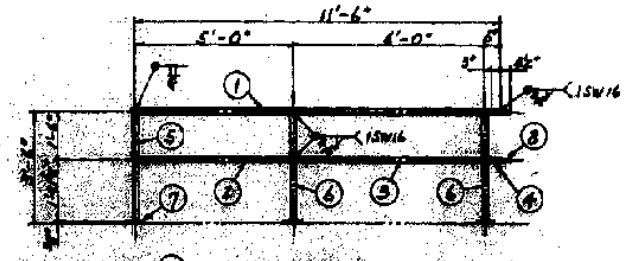


PLAN

SEC. B-B

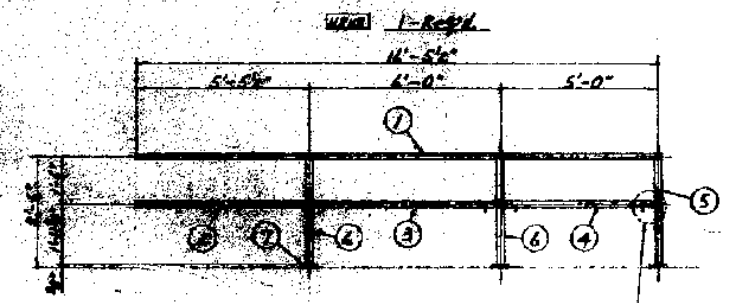


HR17 1-Req'd.
Scale: 3/8" = 1'-0"



① 1-Pipe 1½" x 11'-6 7/16" (A53)
② 1-Pipe 1½" x 6'-0" (")
③ 1-Pipe 1½" x 6'-0" (")
④ 1-Pipe 1½" x 6" (")
⑤ 1-Pipe 1½" x 3'-6 3/16" (")
⑥ 2-Pipes 1½" x 3'-5 5/8" (")
⑦ 3-Pls 4½" x 3/8" x 6" (A36)
⑧ 2-FBs 1½" x 6½" (A53)
9-EXP. Bolts ½" x 10" (SS41B-D)

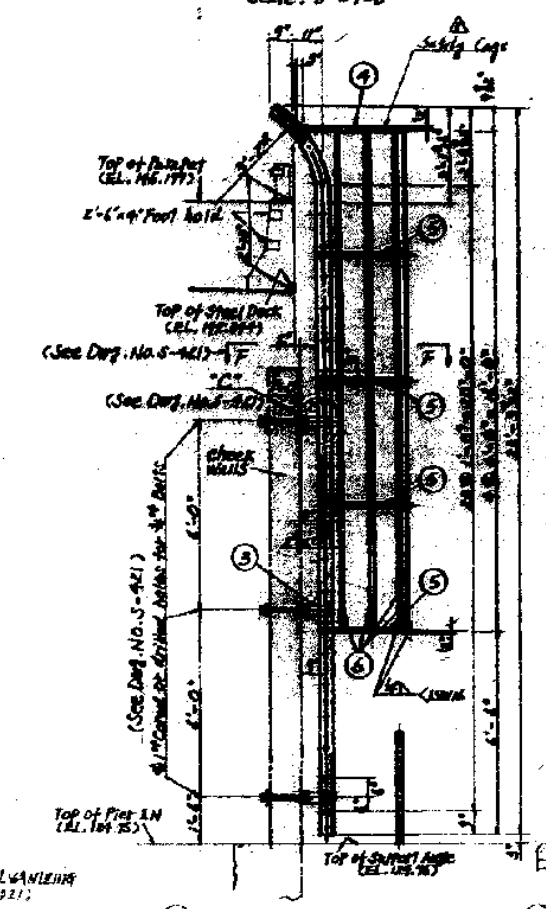
HR18 1-Req'd.

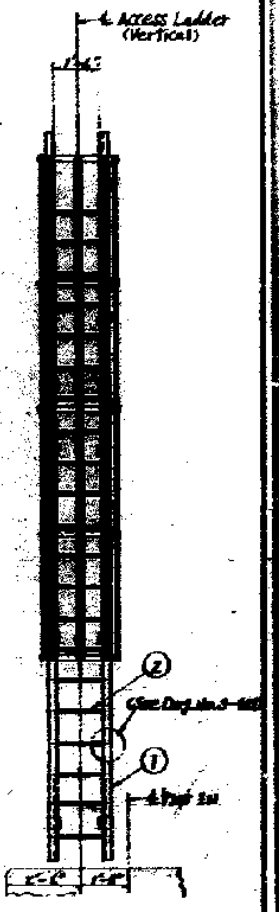


① 1-Pipe 1½" x 14'-6 7/16" (A53)
② 1-Pipe 1½" x 5'-5½" (")
③ 1-Pipe 1½" x 6'-0" (")
④ 1-Pipe 1½" x 6'-0" (")
⑤ 1-Pipe 1½" x 3'-6 3/16" (")
⑥ 2-Pipes 1½" x 3'-5 5/8" (")
⑦ 3-Pls 4½" x 3/8" x 6" (A36)
9-EXP. Bolts ½" x 10" (SS41B-D)

A.R. HOLE FOR GALVANIZING (See Dwg. No. S-921)

WF1 1-Req'd.
Scale: 3/8" = 1'-0"





※① 2-Cs 150 x 75 x 9mm x 23'-7 3/8" (A36)
※② 2 L-R.BS 25mm x 1'-6 1/2" (")
③ L-Bent Pls 4" x 1/2" x 1'-5 3/8" (")
△④ 1-FB 38 x 9mm x 8'-8 3/32" (")
△⑤ 4-FBs 38 x 9mm x 7'-0 5/16" (A36)
△⑥ 7-FBs 38 x 9mm x 16'-0 1/2" (")
6-Bolts ¾" x 1'-1 1/4" (SS41B-D)

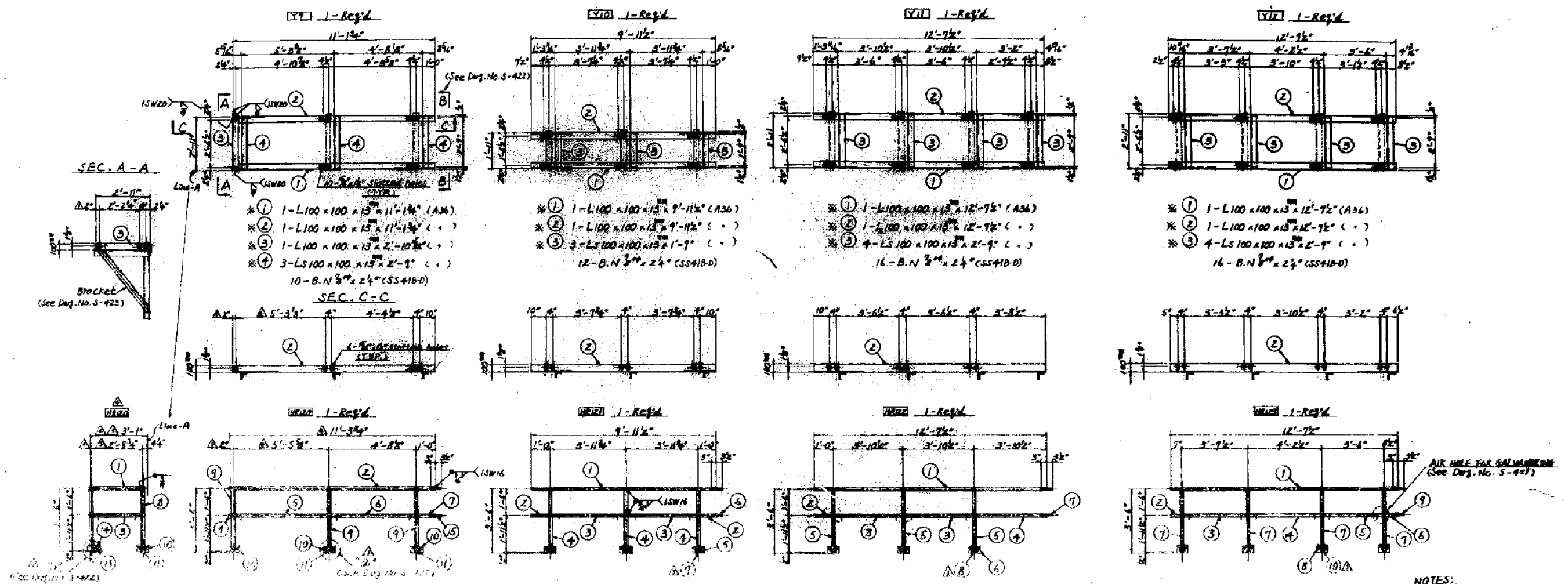
NOTES:
1. For General Notes, See Dwg. No. S-1.
2. All materials (including fasteners) used for Railing and Exterior Access Ladder shall be galvanized according to ASTM A-123 after fabrication.
△ 3. Denotes substituted shapes and these details are shown on Dwg. No. S-425.
4. Work with Dwg. No. S-425 & S-426.
5. For grating details, see Dwg. No. S-703.

△ (2) Standard weight pipe (std. pipe)

RAILING AT PIN (1/3)

RAILING AT PIN (2/3)

Scale : 3/8" = 1'-0"



※① 1-L100 x 100 x 13mm x 11'-1¾" (A36)
※② 1-L100 x 100 x 13mm x 11'-1¾" (")
※③ 1-L100 x 100 x 13mm x 2'-10⅞" (")
※④ 3-Ls100 x 100 x 13mm x 2'-9" (")
10-B.N ⅞"φ x 2¼" (SS41B-D)

※① 1-L100 x 100 x 13mm x 9'-11½" (A36)
※② 1-L100 x 100 x 13mm x 9'-11½" (")
※③ 3-Ls100 x 100 x 13mm x 1'-9" (")
12-B.N ⅞"φ x 2¼" (SS41B-D)

※① 1-L100 x 100 x 13mm x 12'-7½" (A36)
※② 1-L100 x 100 x 13mm x 12'-7½" (")
※③ 4-Ls100 x 100 x 13mm x 2'-9" (")
16-B.N ⅞"φ x 2¼" (SS41B-D)

※① 1-L100 x 100 x 13 x 12'-7½" (A36)
※② 1-L100 x 100 x 13mm x 12'-7½" (")
※③ 4-Ls100 x 100 x 13mm x 2'-9" (")
16-B.N ⅞"φ x 2¼" (SS41B-D)

① 1-Pipe 1½"φ x 9'-11½" (A53)
② 2-Pipes 1½"φ x 1'-0" (")
③ 2-Pipes 1½"φ x 3'-11¾" (")
④ 3-Pipes 1½"φ x 3'-5½" (")
⑤ 3-Pls 3⅝" x ⅜" x 7" (A36)
⑥ 2-Pipes 1½"φ x 5½" (A53)
※⑦ 3-Pls 3⅝" x ½" x 2½" (A36)
6-B.N ⅞"φ x 2¼" (SS41B-D)

① 1-Pipe 1½"φ x 12'-7½" (A53)
② 1-Pipe 1½"φ x 1'-0" (")
③ 2-Pipes 1½"φ x 3'-10½" (")
④ 1-Pipe 1½"φ x 3'-10½" (")
⑤ 3-Pipes 1½"φ x 3'-5½" (")
⑥ 3-Pls 3⅝" x ⅜" x 7" (A36)
⑦ 2-Pipes 1½"φ x 6½" (A53)
※⑧ 3-Pls 3⅝" x ½" x 2½" (A36)
6-B.N ⅞"φ x 2¼" (SS41B-D)

① 1-Pipe 1½"φ x 12'-7½" (A53)
② 1-Pipe 1½"φ x 7" (")
③ 2-Pipes 1½"φ x 3'-4½" (")
④ 1-Pipe 1½"φ x 2'-5" (")
⑤ 1-Pipe 1½"φ x 3'-4" (")
⑥ 1-Pipe 1½"φ x 5½" (")
⑦ 4-Pipes 1½"φ x 5½" (")
⑧ 1-Pls 3⅝" x ½" x 7" (A36)
⑨ 1-Pipe 1½"φ x 5" (A53)
※⑩ 1-Pls 3⅝" x ½" x 2½" (A36)
6-B.N ⅞"φ x 2¼" (SS41B-D)

⑪ 3-Pls 3⅝" x ½" x 2½" (A36)
⑫ 1-Pl 3⅝" x ⅜" x 4½" (")
⑬ 1-Pl 3⅝" x ½" x 2½" (")
⑭ 1-Pl 3⅝" x ⅜" x 2½" (")
⑮ 6-Pipes 1½"φ x 2½" (A53)
6-B.N ⅞"φ x 2¼" (SS41B-D)

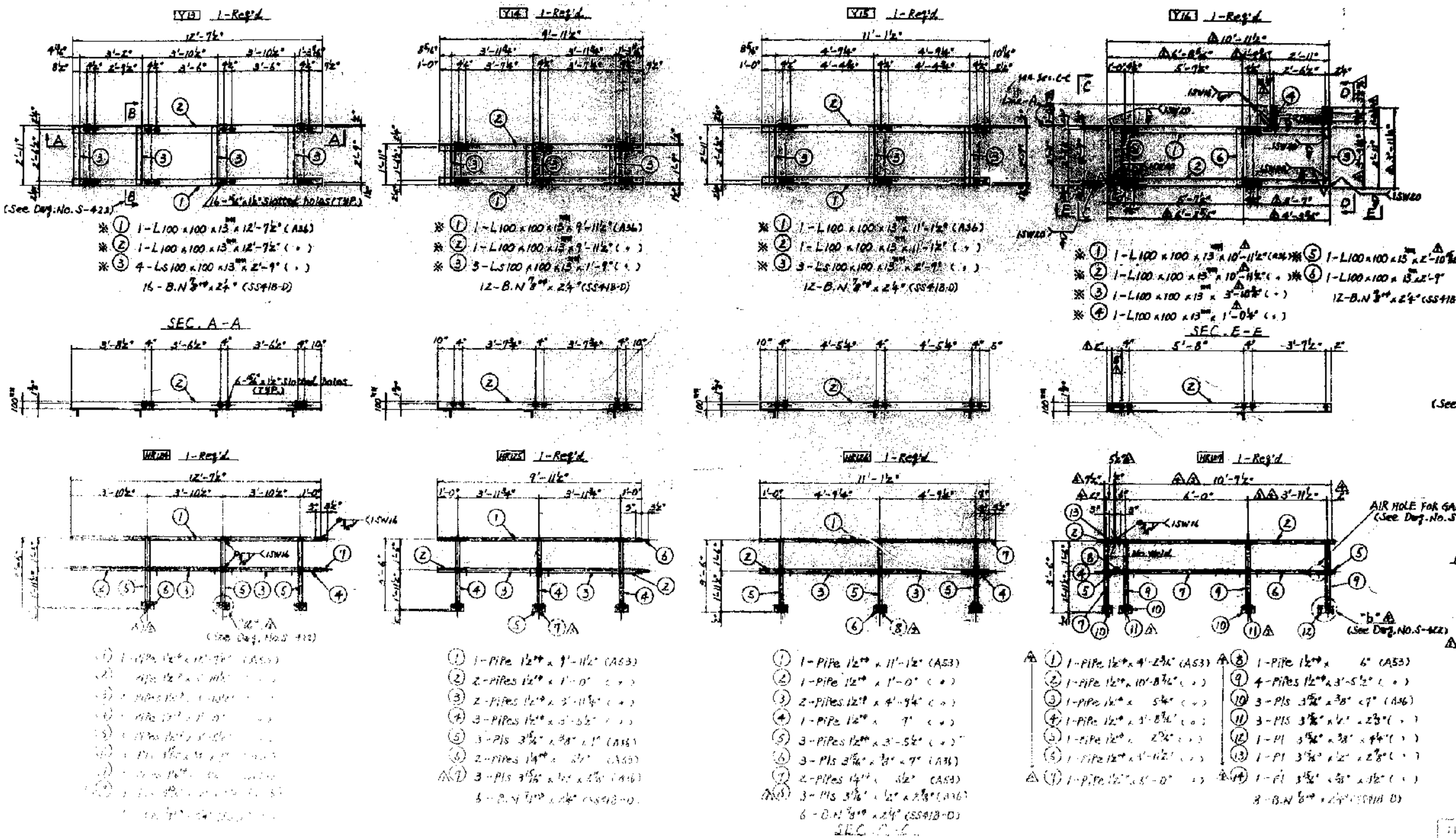
NOTES:

1. For General Notes, See Dwg. No. S-1.
2. All materials (including fasteners) used for Railing shall be galvanized according to ASTM A-123 after fabrication.
3. ※ Denotes substituted shapes. See table on this drawing.
4. Work with Dwg. No. S-434.

RAILING AT PIN (2/3)

RAILING AT PIN (3/3)

Scale: 3/8" = 1'-0"



NOTES:

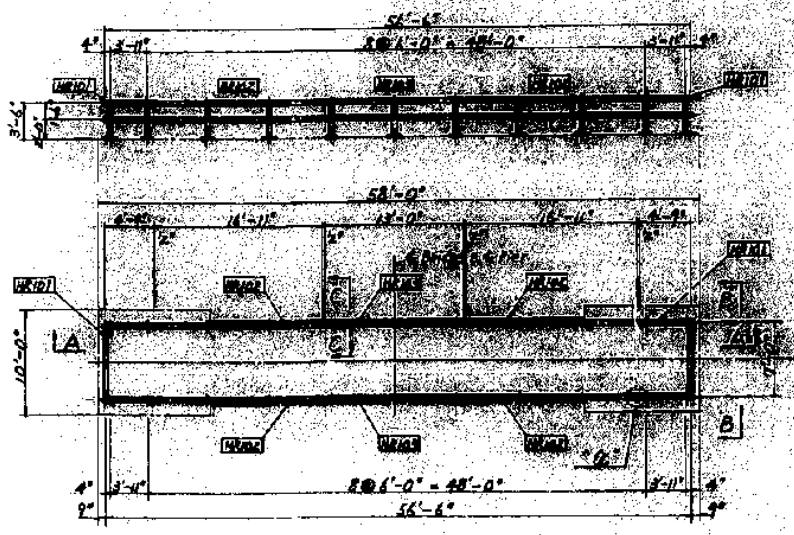
1. For General Notes, See Dwg. No. S-1.
2. All materials (including fasteners) used for railing shall be galvanized according to ASTM A-123 after fabrication.
3. ※ Denotes substituted shapes and these details are shown on Dwg. No. S-425.
4. Work with Dwg. No. S-424.

TITLE RAILING AT PIN (3/3)

RAILING AT P1 AND P4

Scale: 1/8" = 1'-0"

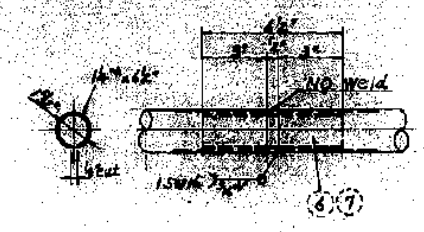
SEC. A-A



PLAN

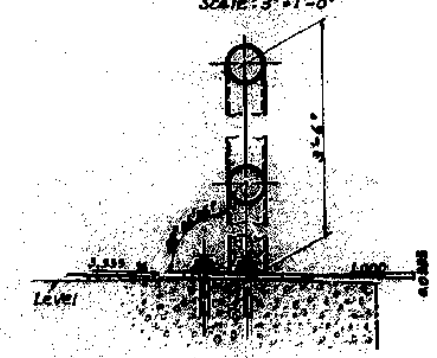
SEC. B-B

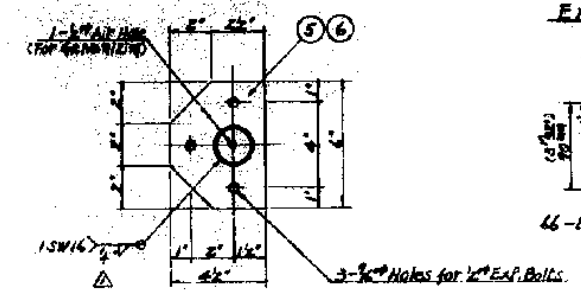
DET. "a" (TYP.)



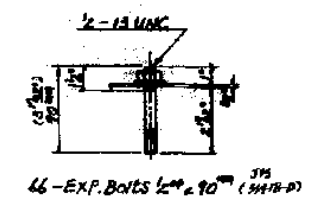
SEC. C-C

Scale: 3" = 1'-0"

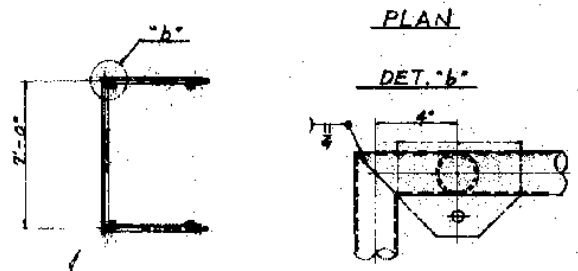


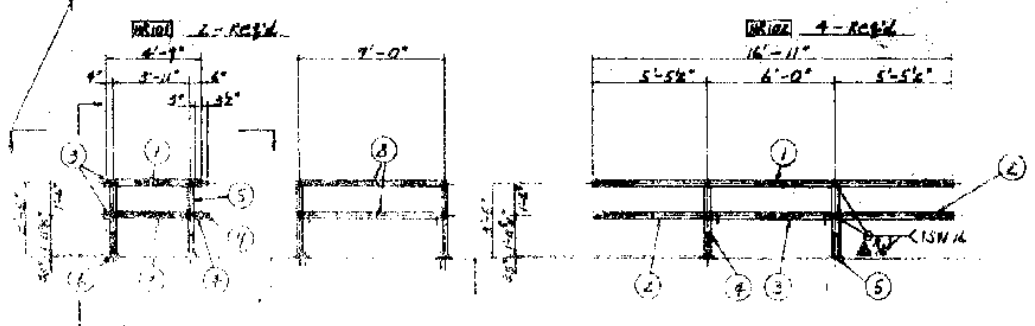


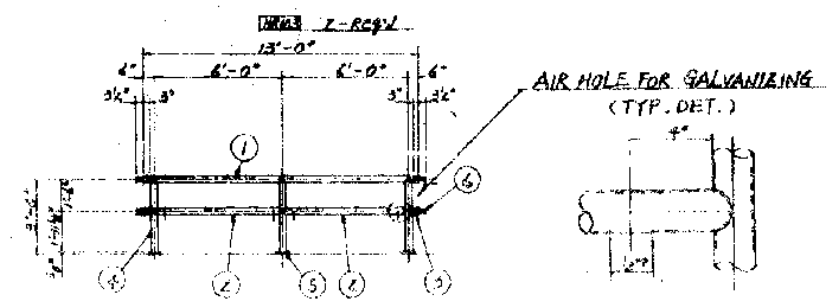
EXPANSION BOLT DETAIL



DET. "b"







1. 1-Pipe 12" x 16'-11" (A53)
2. 2-Pipes 12" x 5'-5½" (")
3. 1-Pipe 12" x 6'-0" (")
4. 2-Pipes 12" x 3'-5½" (")
5. 2-Pls 4½" x 9½" x 6"

1. 1-Pipe 12" x 13'-0" (A53)
2. 2-Pipes 12" x 4'-0" (")
3. 2-Pipes 12" x 6" (")
4. 3-Pipes 12" x 3'-5½" (")
5. 3-Pls 4½" x 9½" x 6"
6. 4-Pipes 12" x 6½" (")

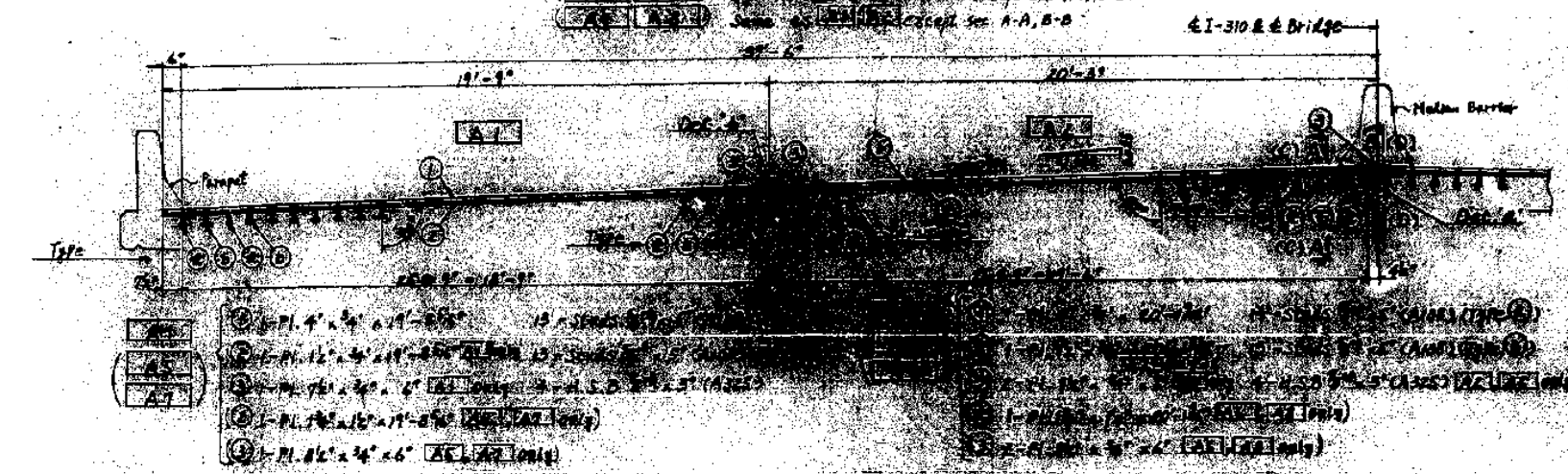
NOTES:

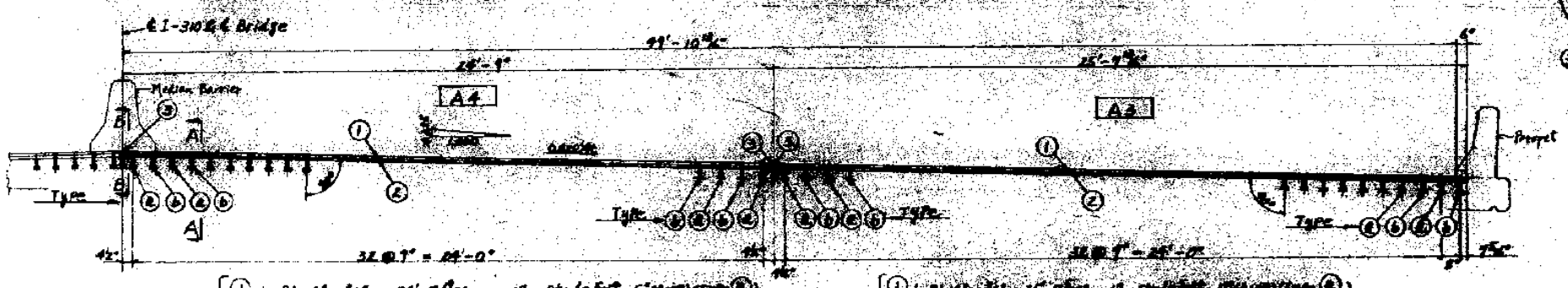
1. For General Notes, See Dwg. NO. S-1.
2. All materials (including fasteners) used for Railing shall be galvanized according to ASTM A-123 after fabrication.

RAILING AT P1 AND P4

A1 | A2 — As Shown
A3 | A4 — Same as Abut. & Main Span except Sec. A-A, B-B.
A5 | A6 — Same as A3 | A4 except Sec. A-A, B-B

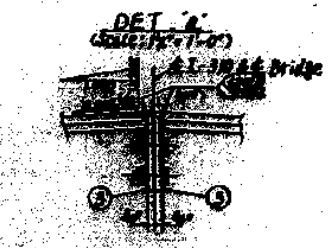
END DAM
(Scale: 1/4" = 1'-0")

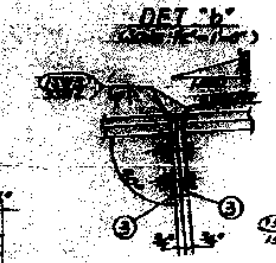




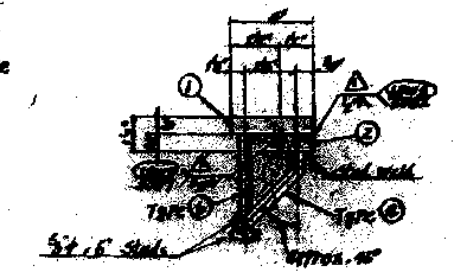
A4 | ① 1-Pl. 4" x 3/4" x 24'-7 7/32" — 17-Studs 5/8" x 5" (A108) (Type ⓐ)
② 1-Pl. 12" x 3/4" x 24'-7 7/32" — 16-Studs 5/8" x 6" (A108) (Type ⓑ)
③ 2-Pl. 7 1/2" x 3/4" x 6"

A3 | ① 1-Pl. 4" x 3/4" x 25'-7 7/32" — 17-Studs 5/8" x 5" (A108) (Type ⓐ)
② 1-Pl. 12" x 3/4" x 25'-7 7/32" — 17-Studs 5/8" x 6" (A108) (Type ⓑ)
③ 1-Pl. 7 1/2" x 3/4" x 5" — 4-H.S.B. 5/8" x 3" (A325)

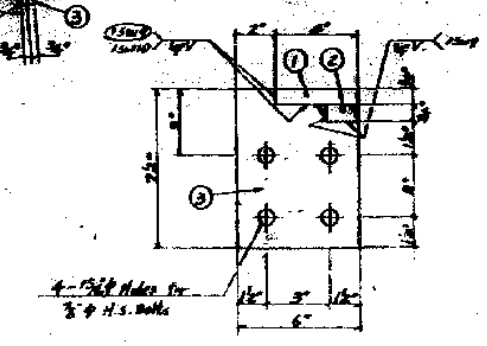




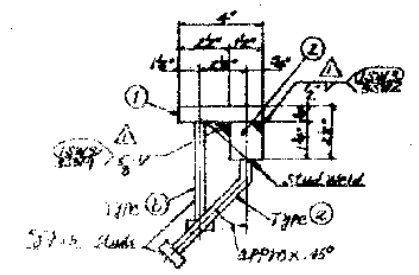
SEC. A-A (Scale: 3" = 1'-0") A1 ~ A4



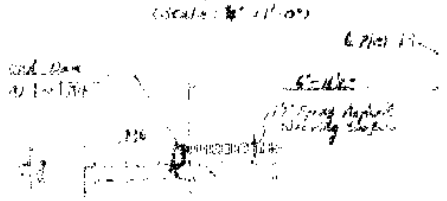
SEC. B-B (Scale: 3" = 1'-0") A1 ~ A4



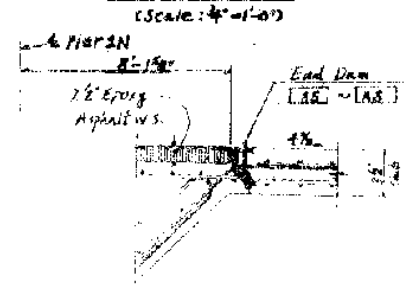
SEC. C-C (Scale: 3" = 1'-0") A5 ~ A6



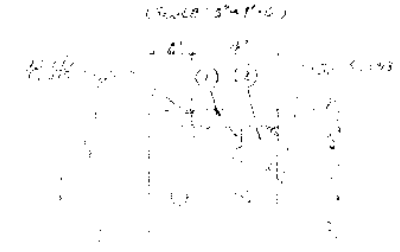
SEC. E-E (Scale: 1/4" = 1'-0")



SEC. F-F (Scale: 1/4" = 1'-0")



SEC. G-G (Scale: 3" = 1'-0") A5 ~ A6

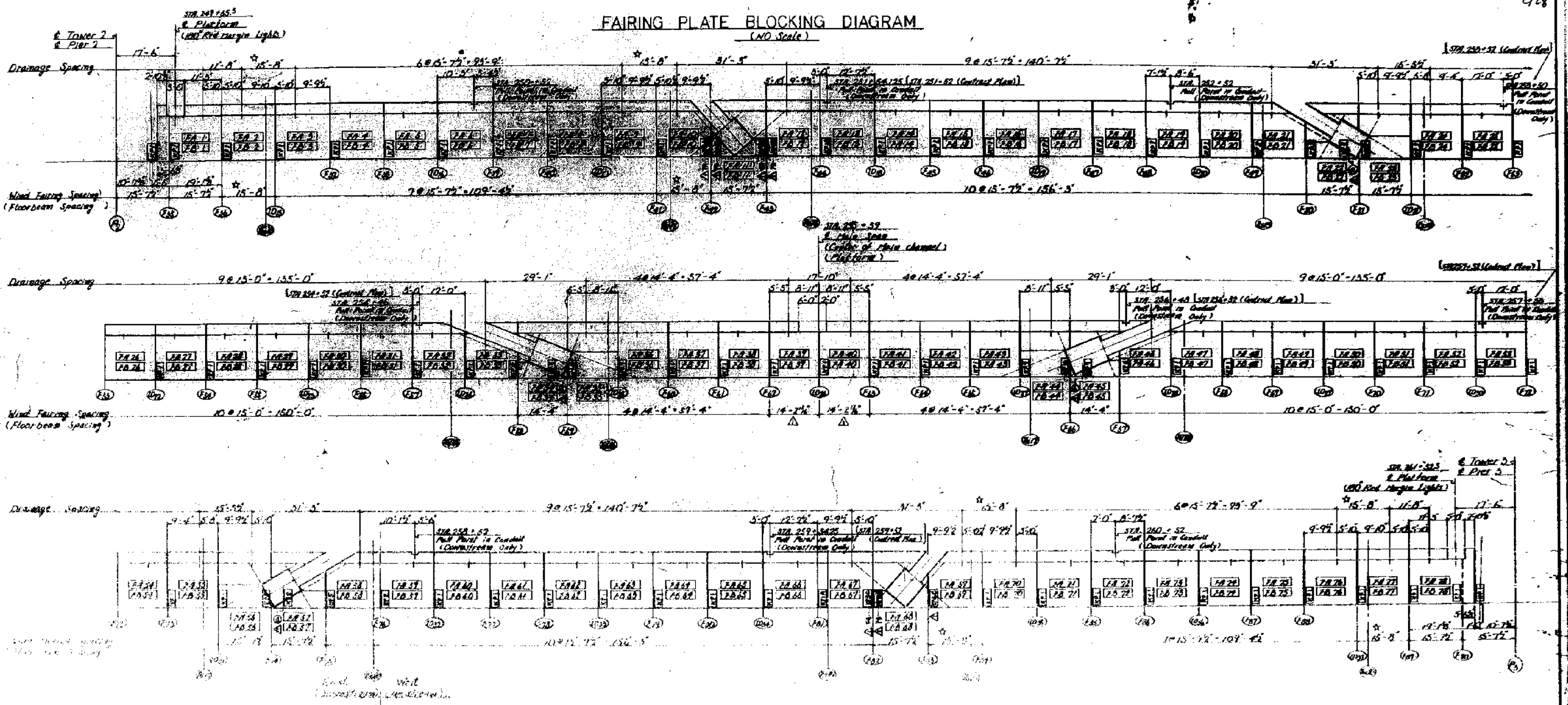


NOTE:
For General Notes, see Dwg. No. S-1.

TITLE: END DAM

FAIRING PLATE BLOCKING DIAGRAM

(NO Scale)



FAIRING PLATE BLOCKING DIAGRAM

STATE OF LOUISIANA

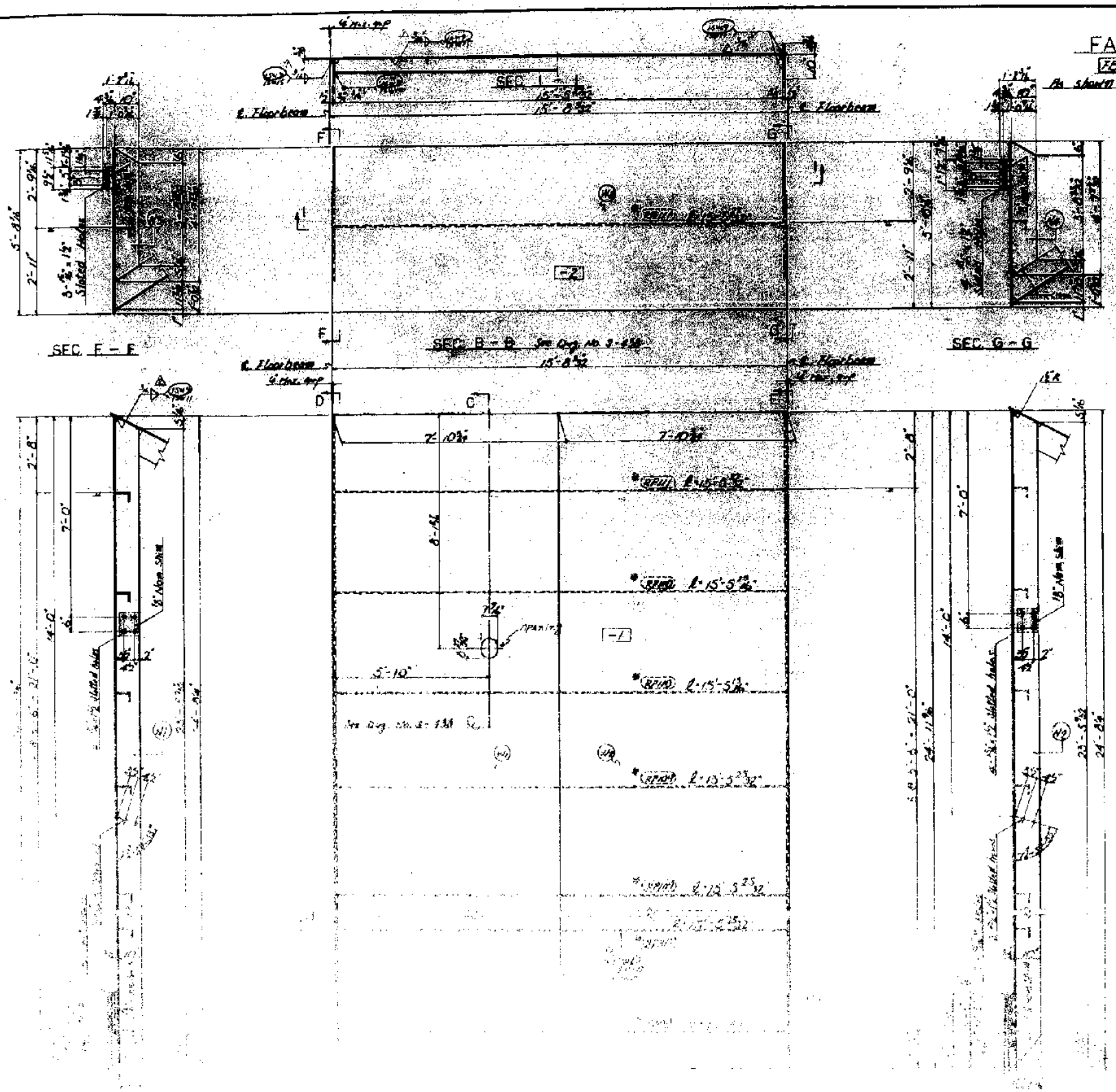
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

DIVISION OF BRIDGES

FAIRING PLATE SCALE: 1½" = 1'-0"

FB 2 — As shown

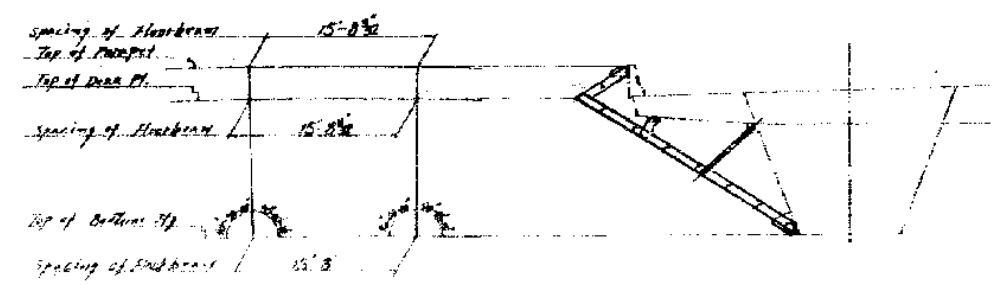
FB 2 — Symm. abt. ℄ I-310 & ℄ Bridge



FB 2 - FB 2 Each 1 Req.

-1	1 - PL	93¾"	x ⅜"	x 24'-11⅛"
	1 - PL	"		x 24'-11⅛"
-2	1 - PL	68 1/16"	x ⅜"	x 15'-7 9/32"
	1 - PL	14¾"	x ⅜"	x 24'-8¼"
	1 - PL		"	x 24'-8¼"
	1 - PL	14¾"	x ⅜"	x 4'-7 25/32"
	1 - PL		"	x 4'-7 25/32"
*	1 - L	150 x 90 x 12 mm		x 15'-5 17/32"
*	3 - Ls		"	x 15'-5 17/32"
*	2 - Ls		"	x 15'-5 17/32"
*	2 - Ls		"	x 15'-5 17/32"

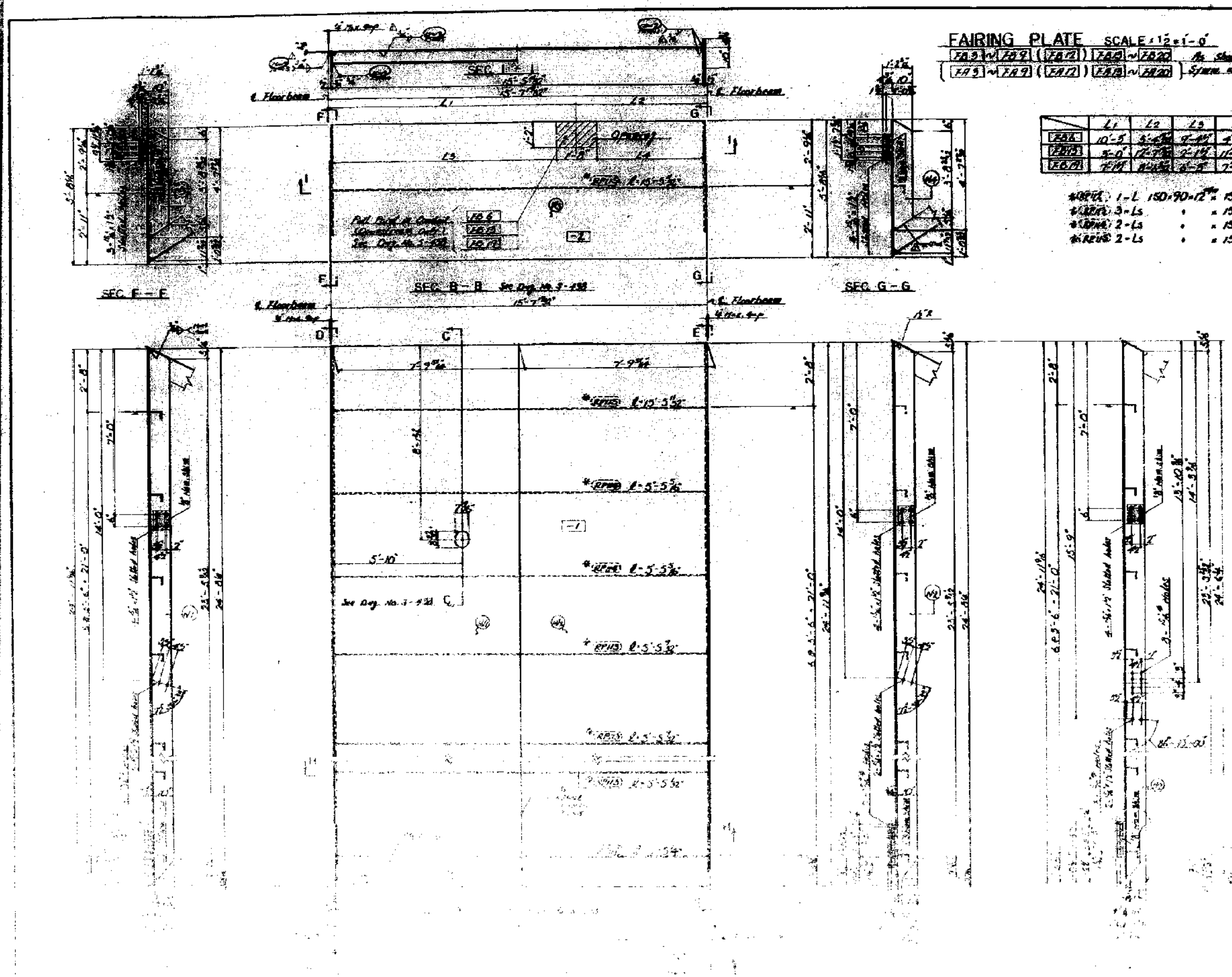
Specified Vertical Slope



NOTES:

1. For general notes, see Dwg. No. S-1.
2. For blocking diagram, see Dwg. No. S-439
3. * Denote adjusted dimensions due to actual camber and actual span length.
4. For typical cross section and the details, see Dwg. No. S-440, S-441
5. ** Denote constructional slope and the detail is shown in Dwg. No. S-437

TITLE: FAIRING PLATE BETWEEN



FAIRING PLATE SCALE = 1½" = 1'-0"

FB3 ~ FB9 (FB12) FB19 ~ FB20 As Shown

(FB3 ~ FB9) (FB12) FB19 ~ FB20 } Same as L-3-10, 6 L Bridge

FB3 ~ FB7, FB19 ~ FB20
FB3 ~ FB9, FB12 ~ FB20 } Each 1 Req.

	L_1	L_2	L_3	L_4
FB6	10'-5	3'-6 3/16"	7'-11 5/8"	4'-6 3/16"
FB9	3'-0"	12'-7 3/8"	2'-1 1/4"	11'-9 3/16"
FB12	7'-11	11'-4 3/8"	6'-3"	7'-7 3/8"

-1
-2

⑥	1 - PL	93 11/16" × 3/16"	× 24'-11 9/16"
⑦	1 - PL	"	× 24'-11 9/16"
⑧	1 - PL	68 1/16" × 3/16"	× 15'-7 5/32"
⑨	1 - PLs	14 3/16" × 5/8"	× 24'-8 1/4"
⑩	1 - PLs	"	× 24'-8 1/4"

*RPL6 1 - L 150 × 90 × 12 mm × 15'-5 1/4"
*RPL7 3 - Ls " × 15'-5 3/32"
*RPL8 2 - Ls " × 15'-5 3/16"
*RPL9 2 - Ls " × 15'-5 3/32"

⑤	1 - PL	14 3/16" × 5/8"	× 4'-7 3/32"
⑥	1 - PL	"	× 4'-7 3/32"

(FB12 , FB20) Each 1 Req.

⑥	1 - PL	93 11/16" × 3/16"	× 24'-11 9/16"
⑦	1 - PL	"	× 24'-11 9/16"
⑧	1 - PL	68 1/16" × 3/16"	× 15'-7 5/32"
⑨	1 - PL	14 3/16" × 5/8"	× 24'-8 1/4"
⑩	1 - PL	"	× 24'-8 1/4"
⑤	1 - PL	"	× 4'-7 3/32"
⑥	1 - PL	"	× 4'-7 3/32"

-1
-2

*RPL6 1 - L 150 × 90 × 12 mm × 15'-5 1/4"
*RPL7 3 - Ls " × 15'-5 3/32"
*RPL8 2 - Ls " × 15'-5 3/16"
*RPL9 2 - Ls " × 15'-5 3/32"

NOTES:

1. For general notes, see Dwg. No. S-1
2. For blocking diagram, see Dwg. No. S-439
3. For typical cross section and the details, see Dwg. No. S-438, S-439.
4. * Denote substituted shapes and these details are shown on Dwg. No. S-437

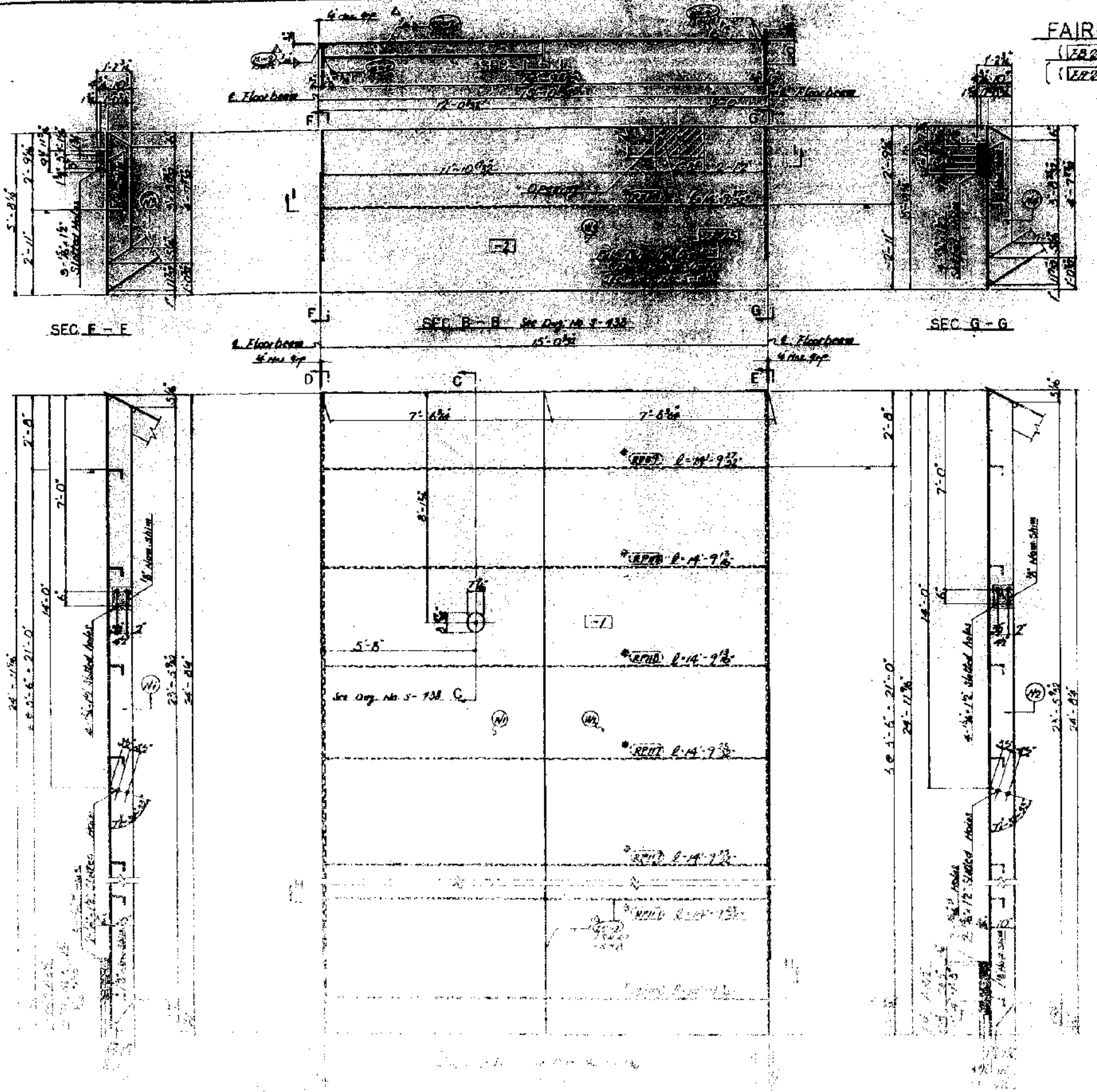
TITLE FAIRING PLATE BLOCK 3, 9, 12~20

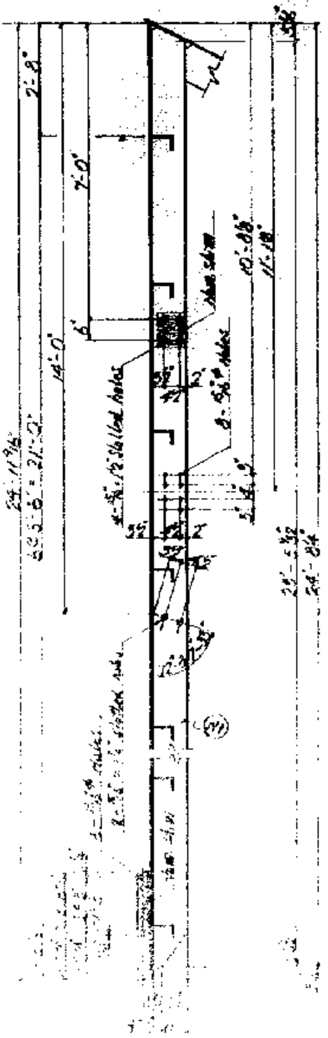
STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DIVISION OF HIGHWAYS

MISSISSIPPI RIVER BRIDGE

FAIRING PLATE SCALE : 1/2" = 1'-0"

(FB24) FB25 ~ FB31 As Shown
[(FA24) FA25 ~ FA31] Symm. abt. ℄ S-910 & ℄ Bridge





[illegible] } Each 1 Req.

-1
-2
- 1-PL 89 3/4" × 3/16" × 24'-11 9/16"
- 1-PL " × 24'-11 9/16"
- 1-PL 68 5/16" × 9/16" × 14'-11 3/32"
- 1-PL 14 1/2" × 5/8" × 24'-8 1/4"
- 1-PL " × 24'-8 1/4"

- * [illegible] 1-L 150×90×12mm × [illegible]
- * [illegible] 3-Ls " × [illegible]
- * [illegible] 2-Ls " × [illegible]
- * [illegible] 2-Ls " × 14'-9[illegible]

- (W1) 1-PL 14 3/16" × 5/8" × 4'-7 27/32"
- (W2) 1-PL " × 4'-7 27/32"

([illegible] , [illegible]) Each 1 Req.

-1
-2
- 1-PL 89 3/4" × 3/16" × 24'-11 9/16"
- 1-PL " × 24'-11 9/16"
- 1-PL 68 5/16" × 3/16" × 14'-11 3/32"
- 1-PL 14 3/16" × 5/8" × 24'-8 1/4"
- 1-PL " × 24'-8 1/4"
- 1-PL " × 4'-7 27/32"
- 1-PL " × 4'-7 27/32"

- * [illegible] 1-L 150×90×12mm × 14'-9 3/4"
- * [illegible] 3-Ls " × 14'-9 23/32"
- * [illegible] 2-Ls " × 14'-9 9/16"
- * [illegible] 2-Ls " × 14'-9 27/32"

NOTES :
1. For general notes, see Dwg. No. S-1.
2. For blocking diagram, see Dwg. No. S-929.
3. For typical cross section and the details, see Dwg. No. S-938, S-939.
4. * Denote substituted shapes and these details are shown on Dwg. No. S-937

TITLE FAIRING PLATE BLOCK 24~31

[illegible]