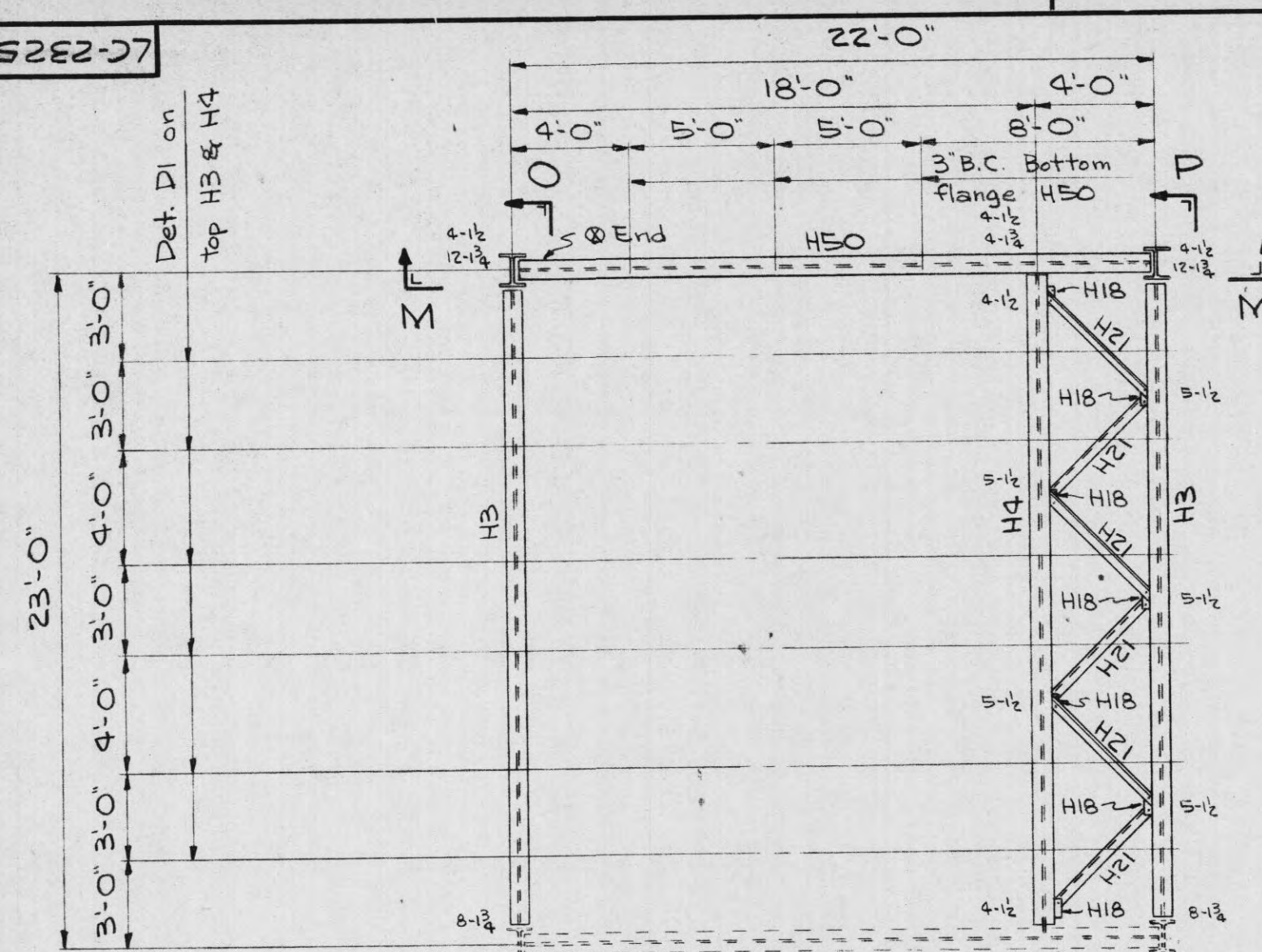
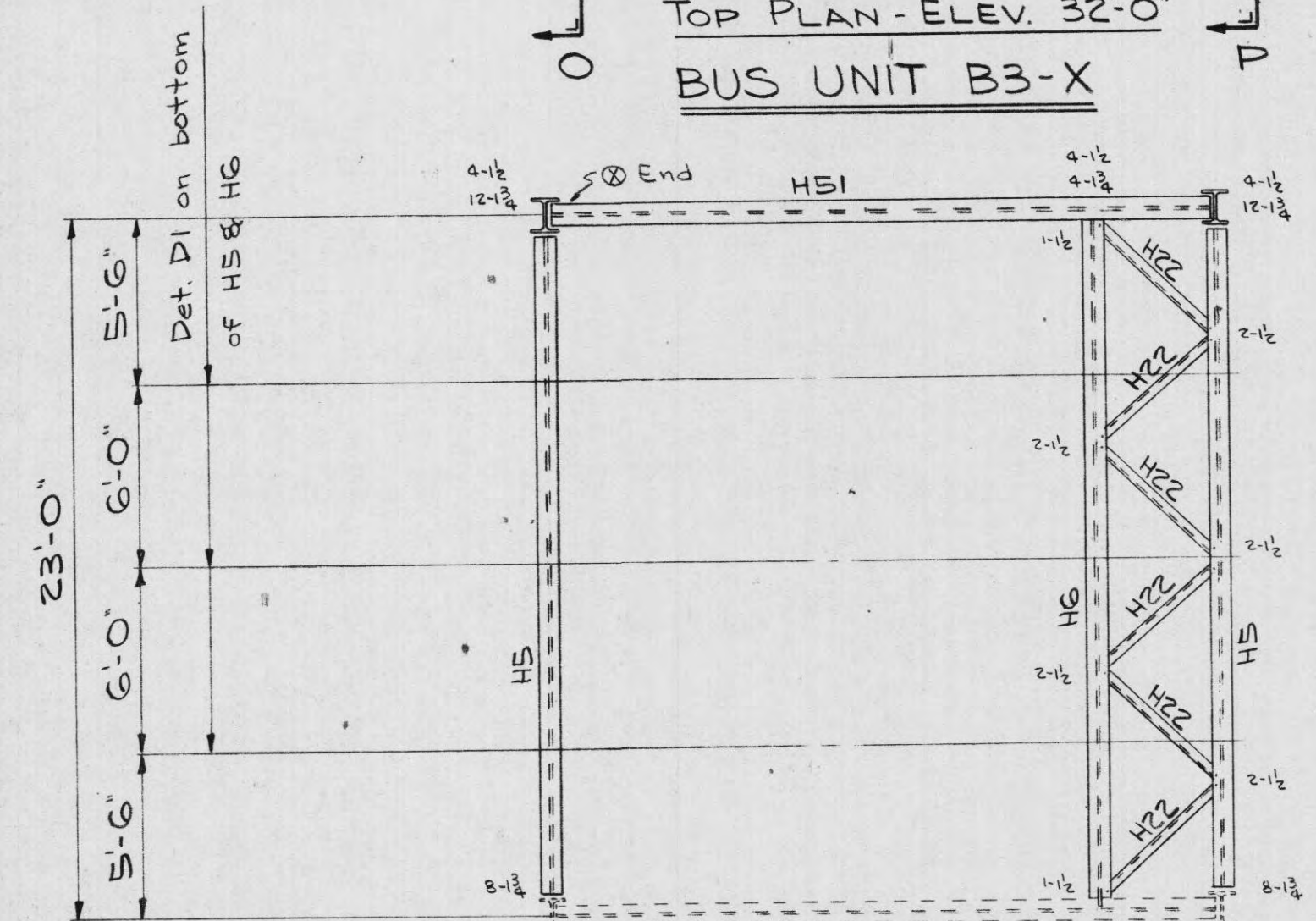


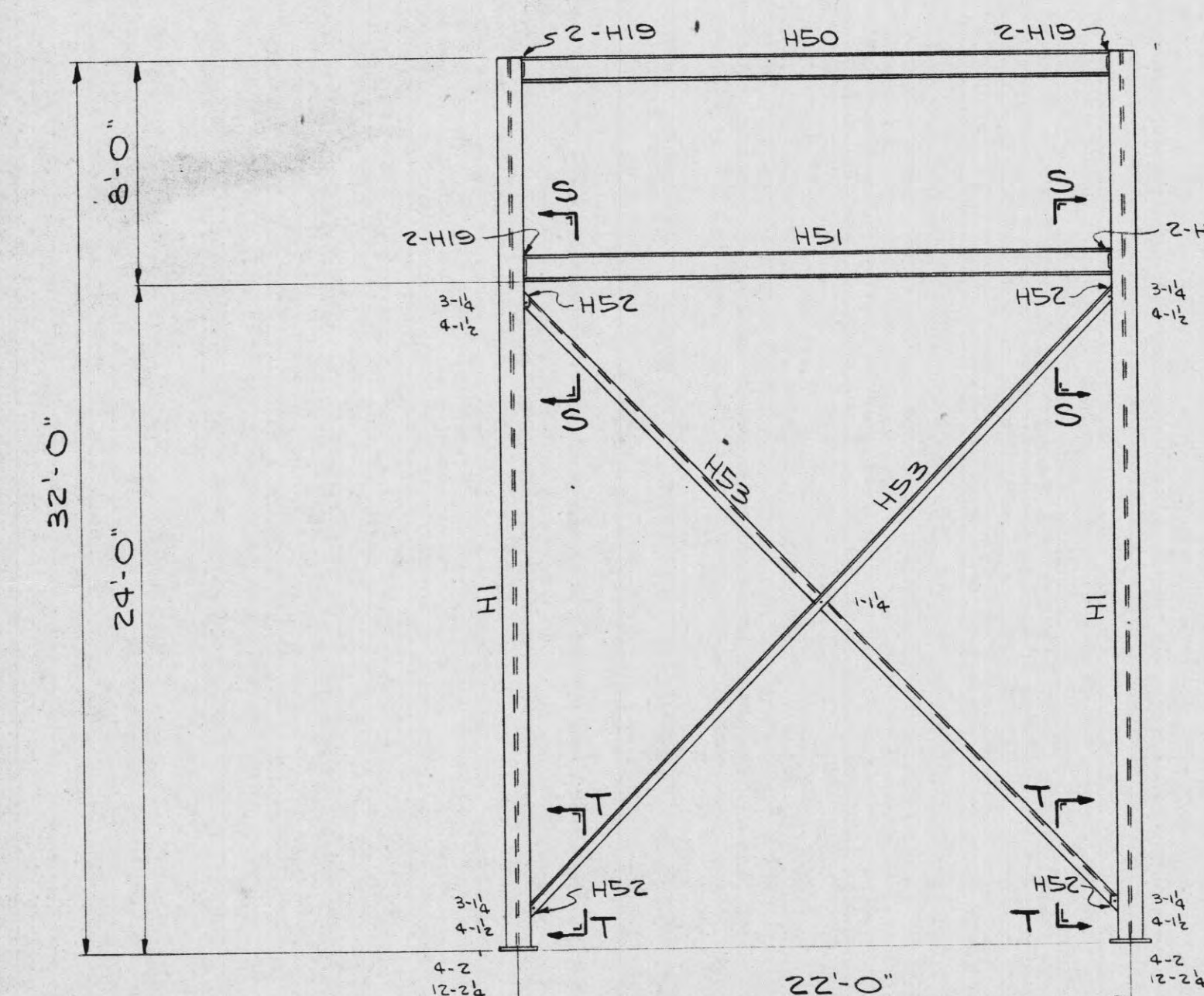
LC23257



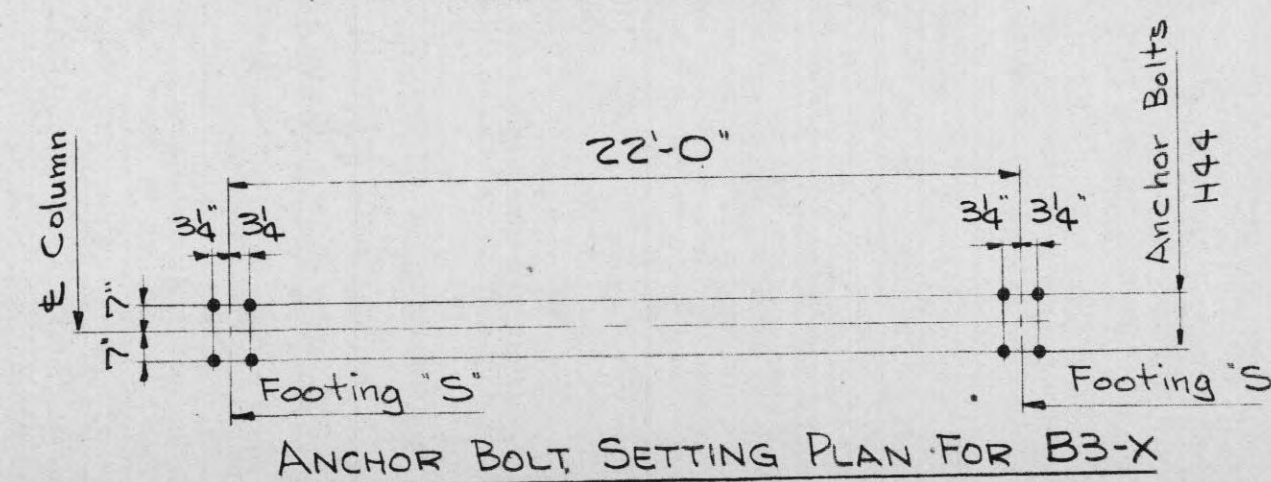
TOP PLAN - ELEV. 32'-0"
BUS UNIT B3-X



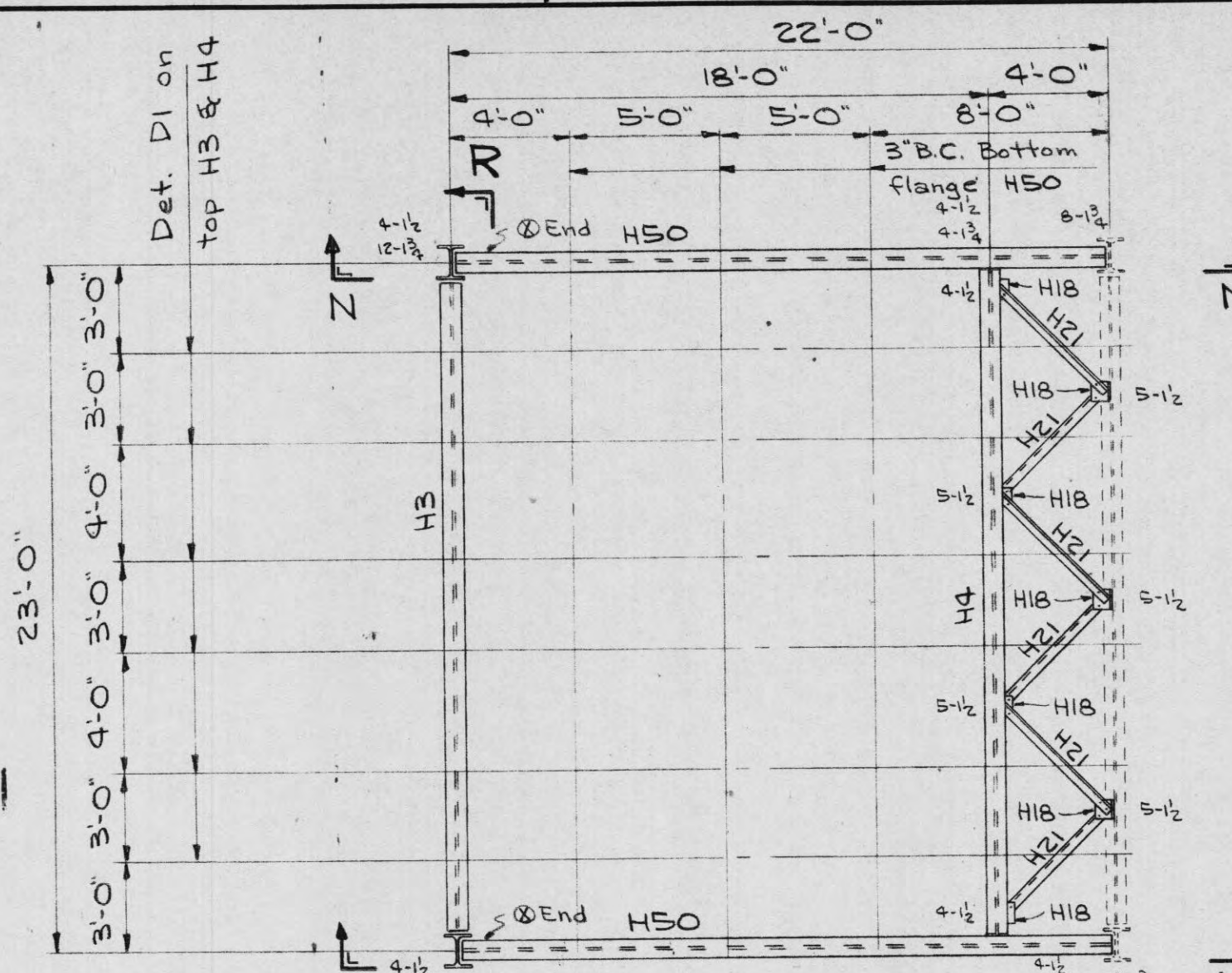
PLAN AT ELEV. 24'-8"
BUS UNIT B3-X



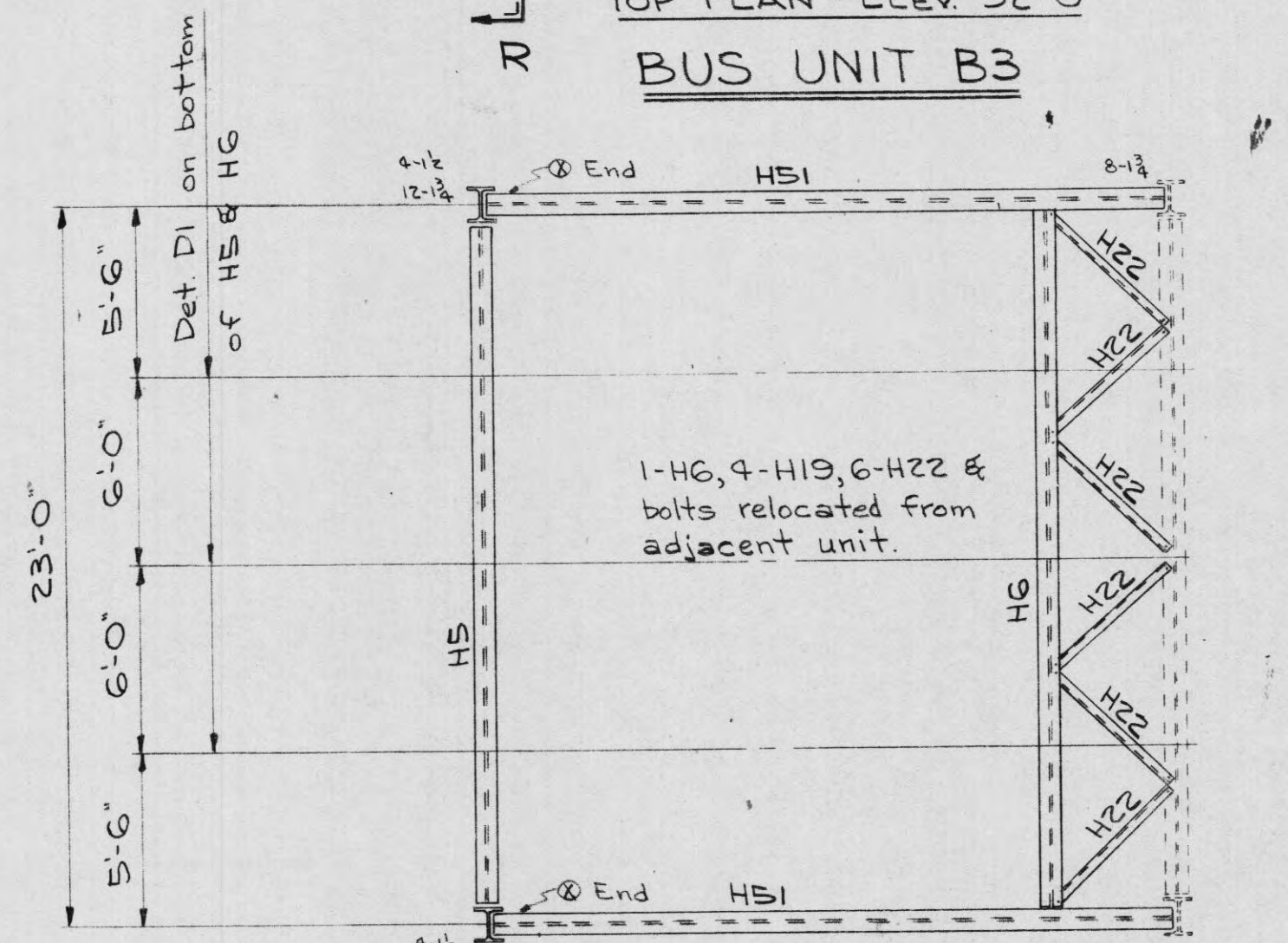
SECTION M-M



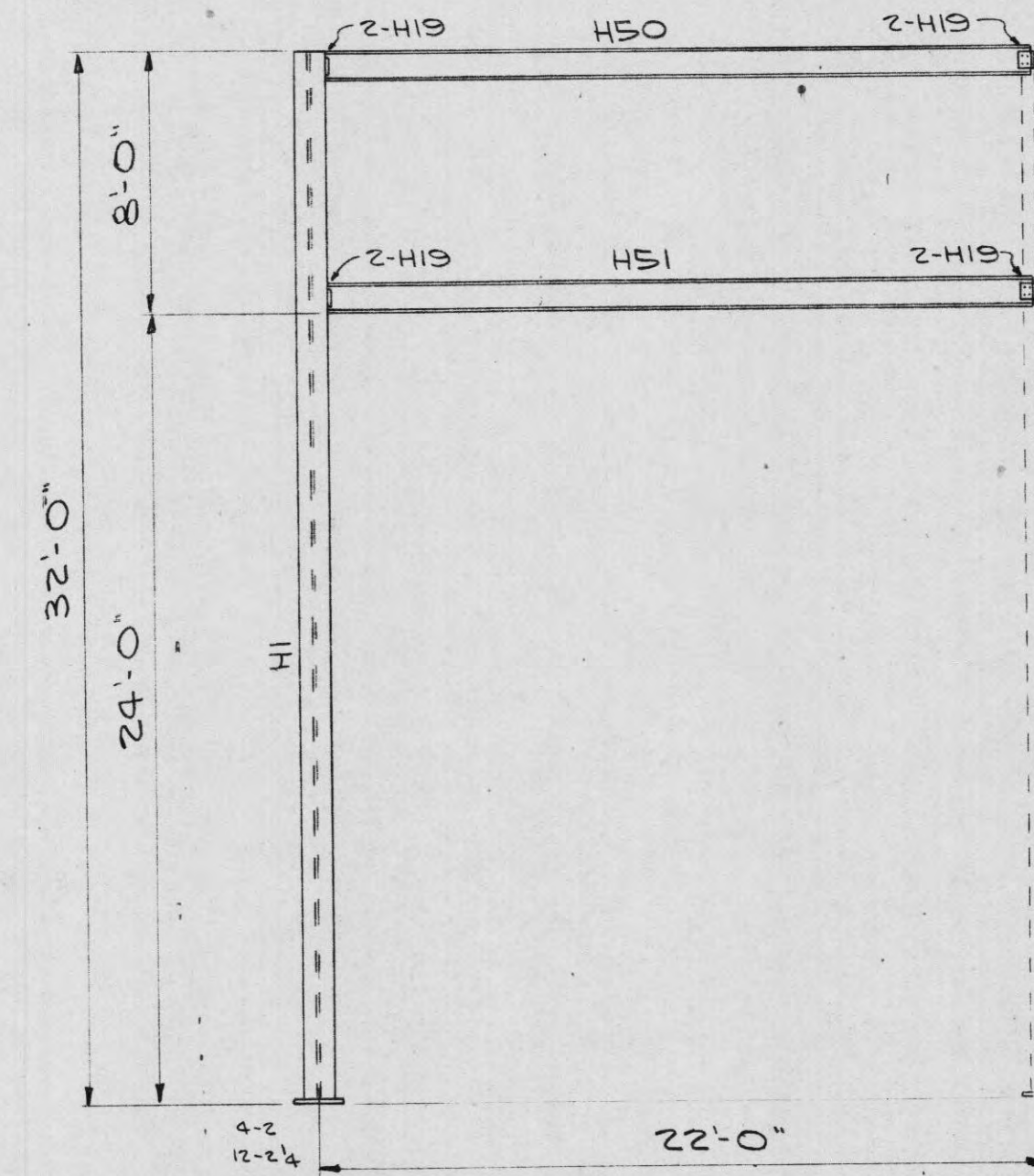
ANCHOR BOLT SETTING PLAN FOR B3-X



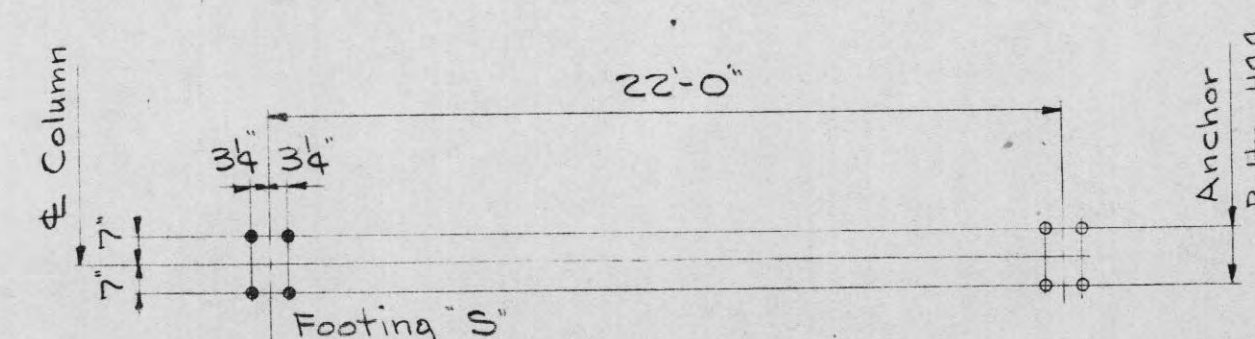
TOP PLAN - ELEV. 32'-0"
BUS UNIT B3



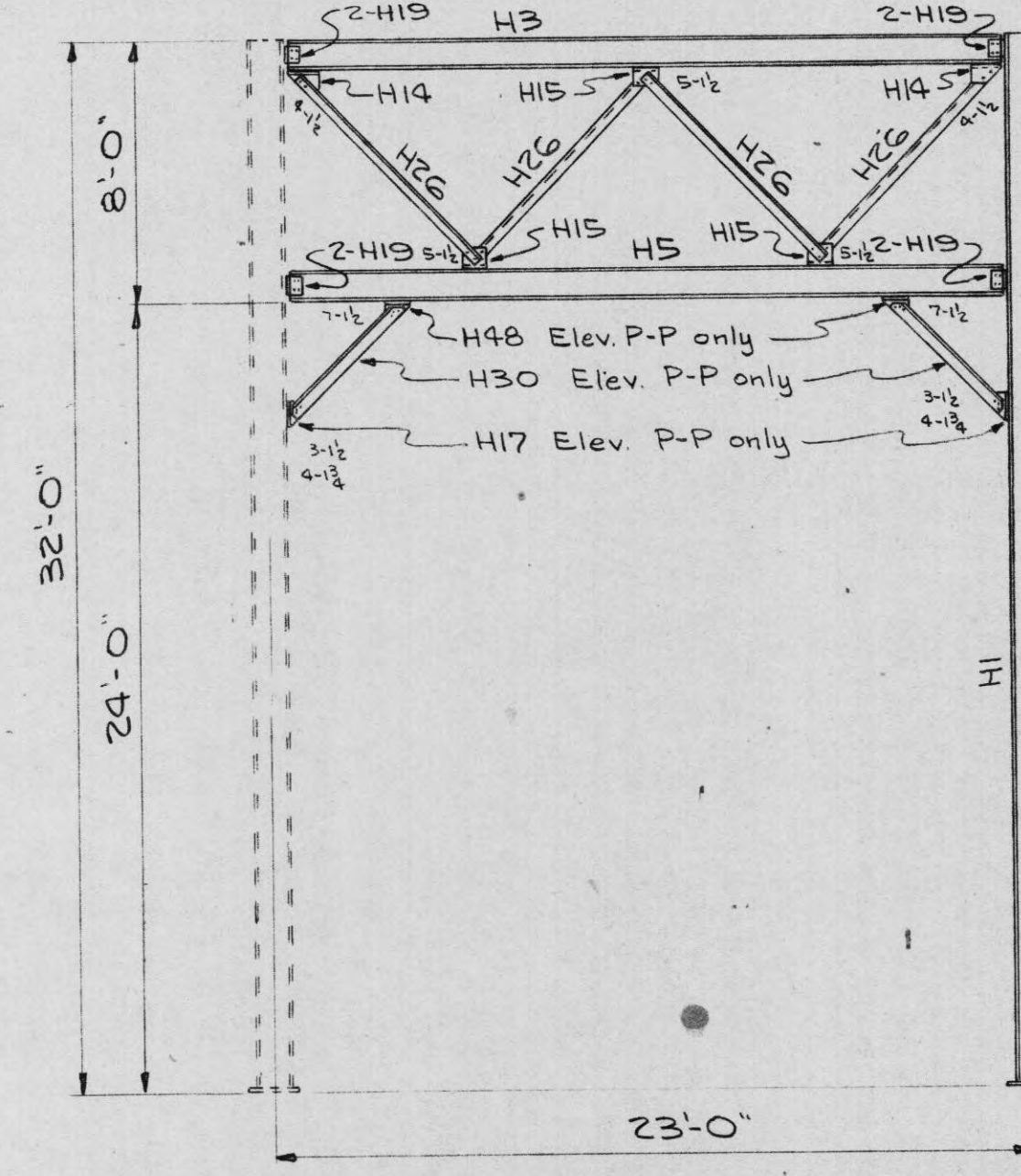
PLAN AT ELEV. 24'-8"
BUS UNIT B3



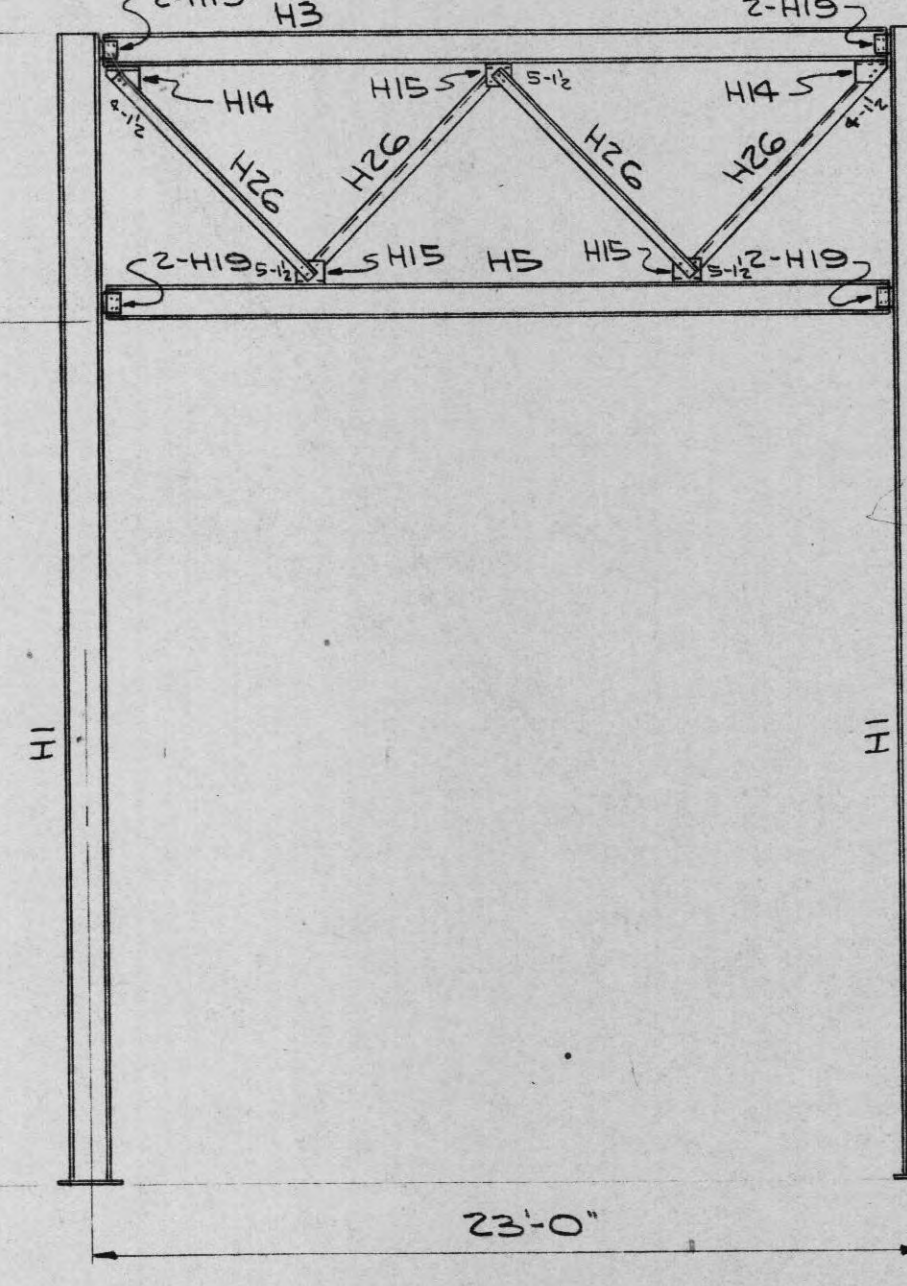
SECTION N-N



ANCHOR BOLT SETTING PLAN FOR B3



SECTION O-O
ELEVATION P-P



SECTION R-R

NOTES:

Holes $\frac{1}{16}$ " unless noted.
Piece marks to be die stamped before galvanizing.
Material to be hot dip galvanized after fabrication.

REFERENCES:

Miscellaneous Steel - LC-20864
Foundation Drawing - HC-20467 & MC-16582
For stations with 5" B.C. see sheet 2

BILL OF MATERIAL

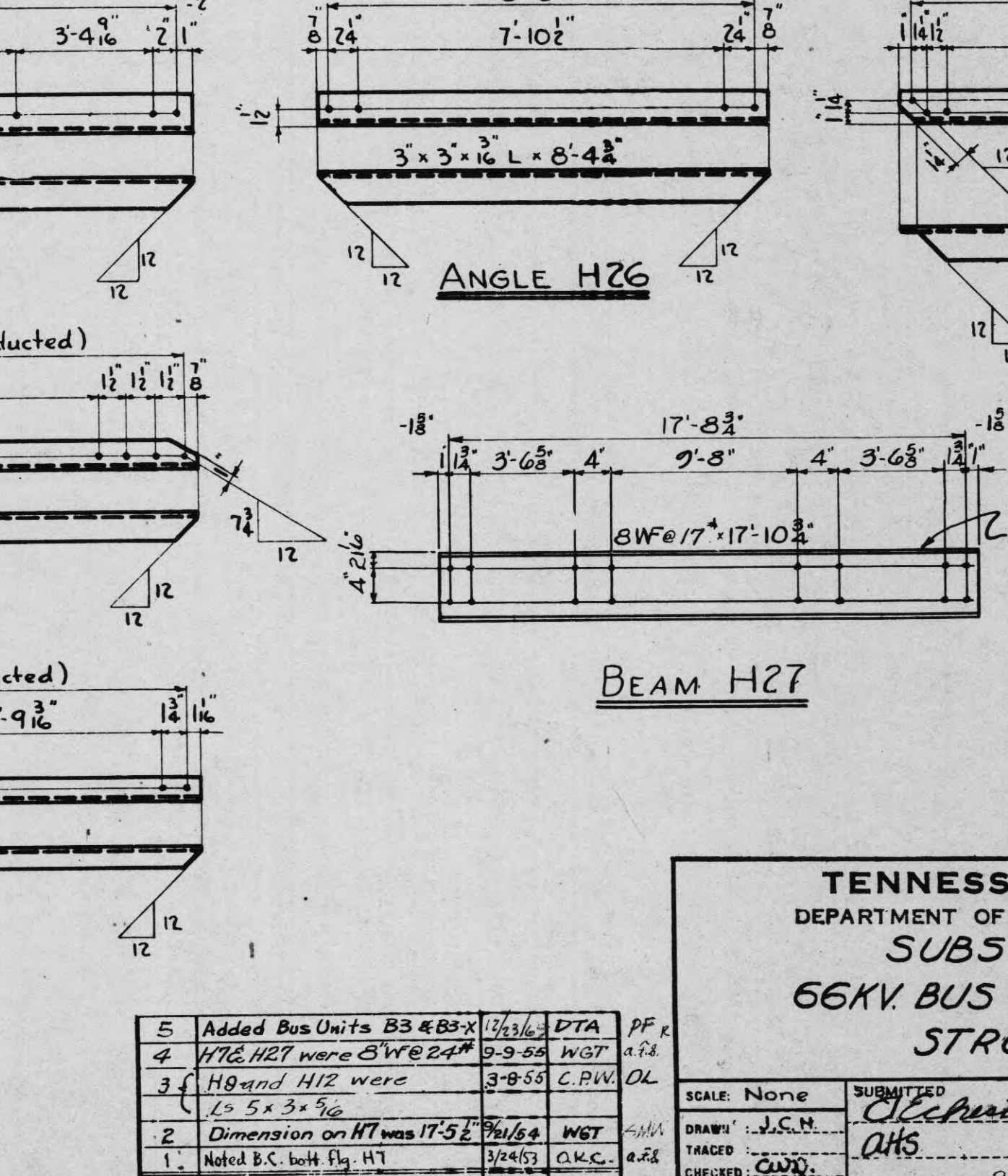
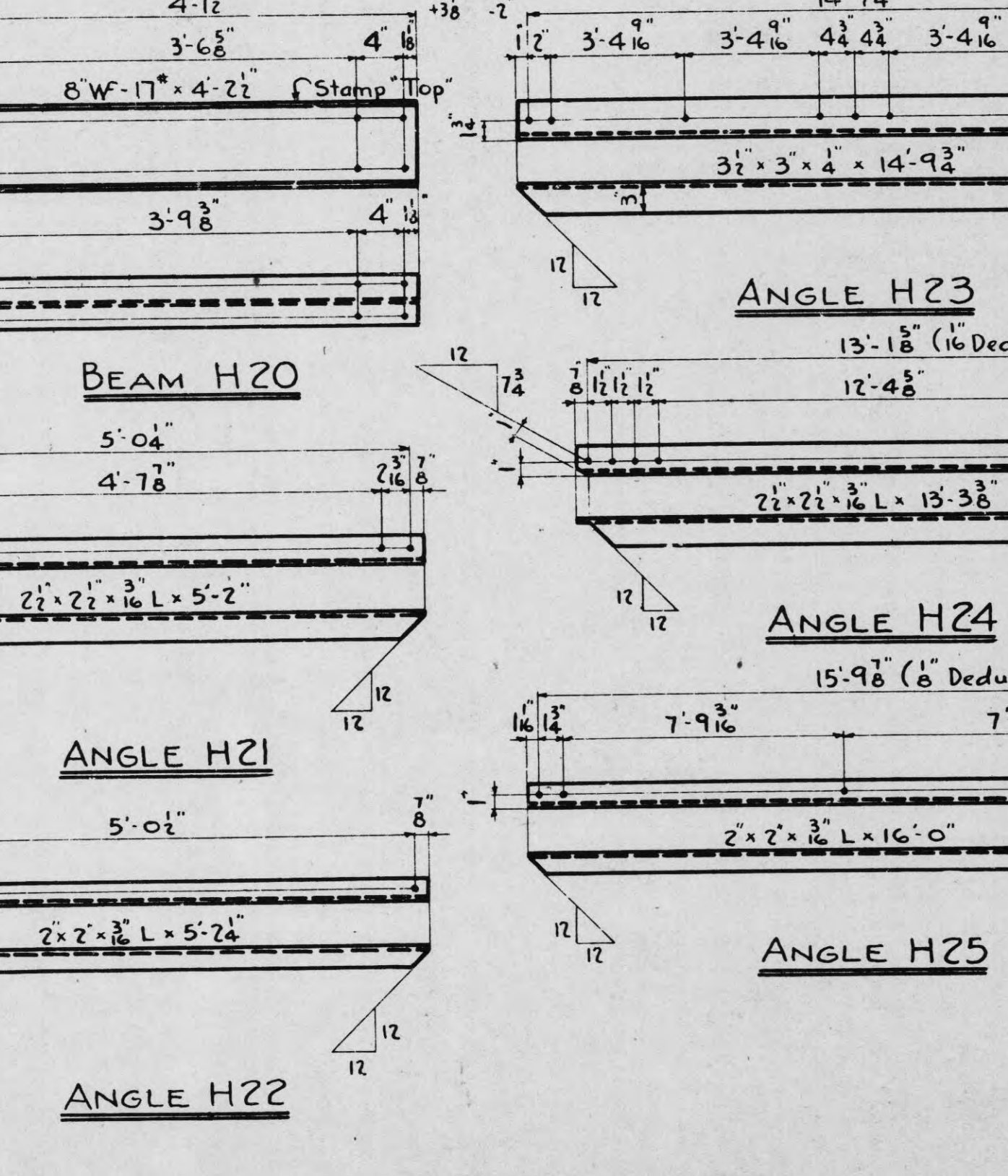
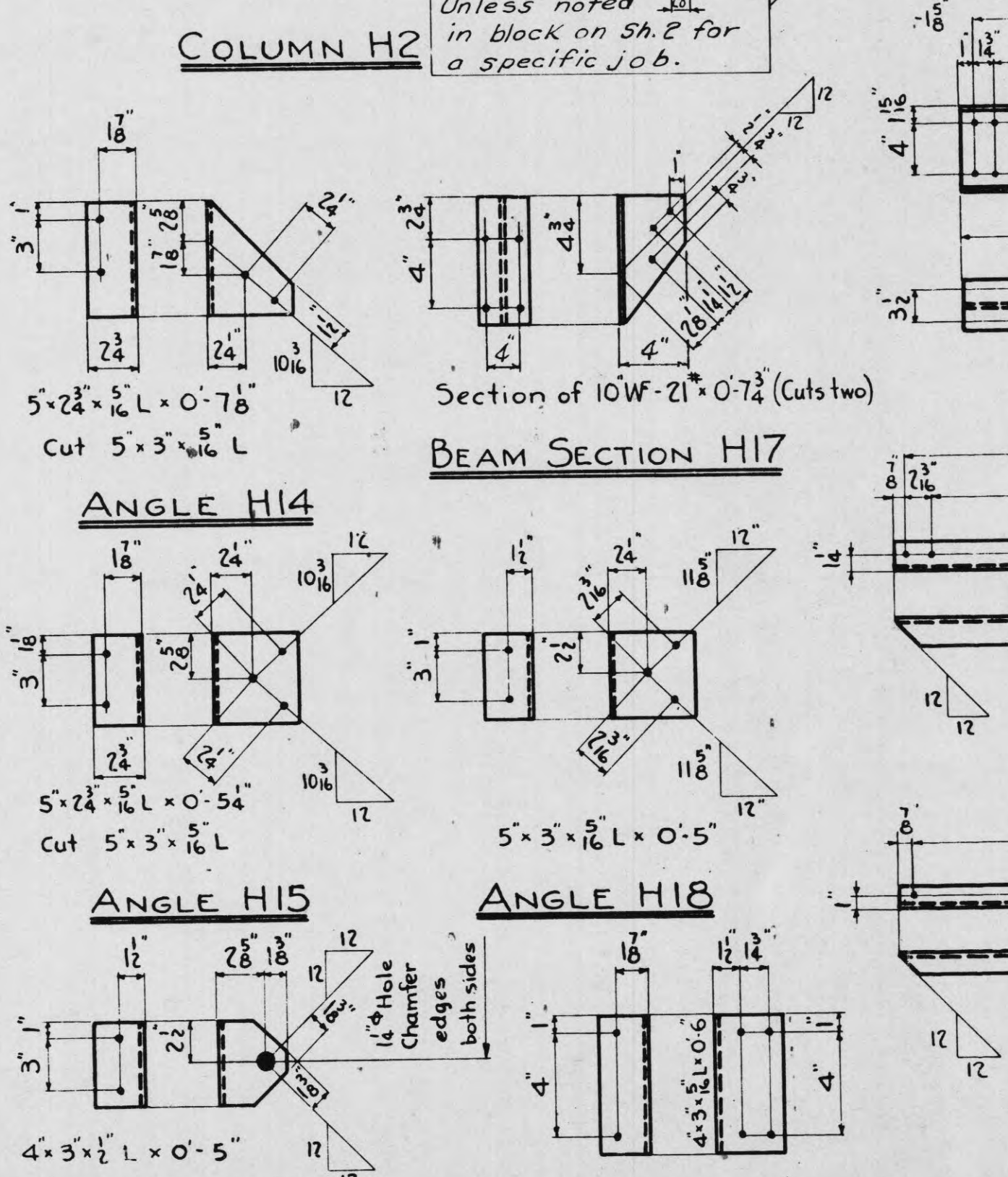
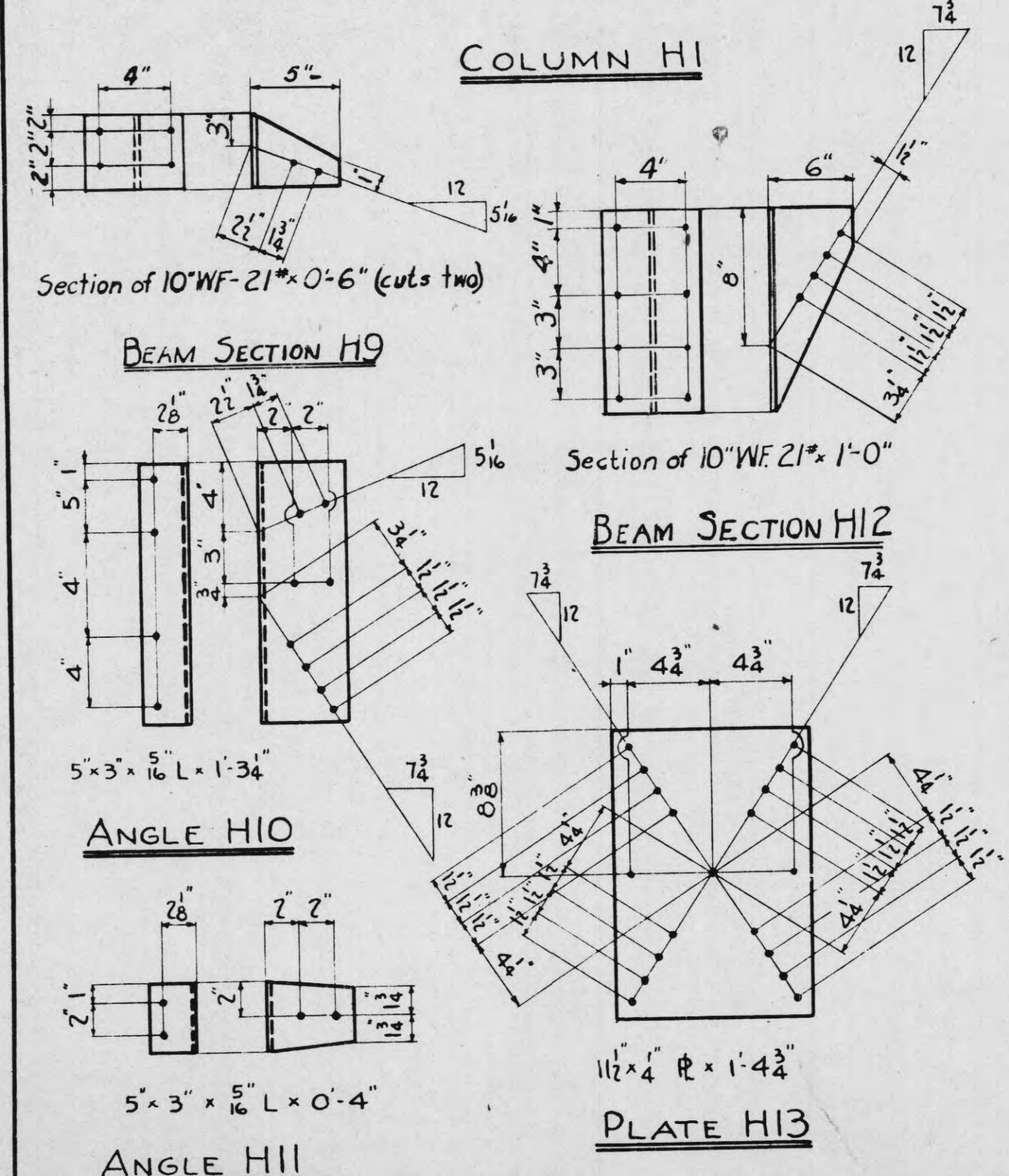
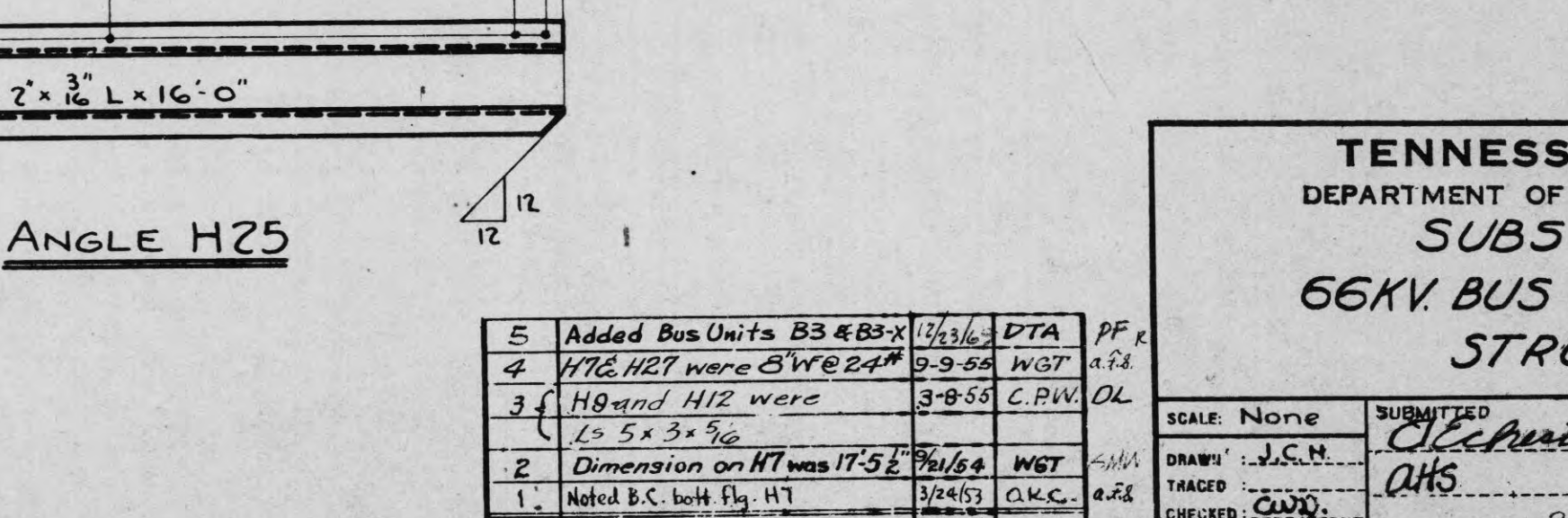
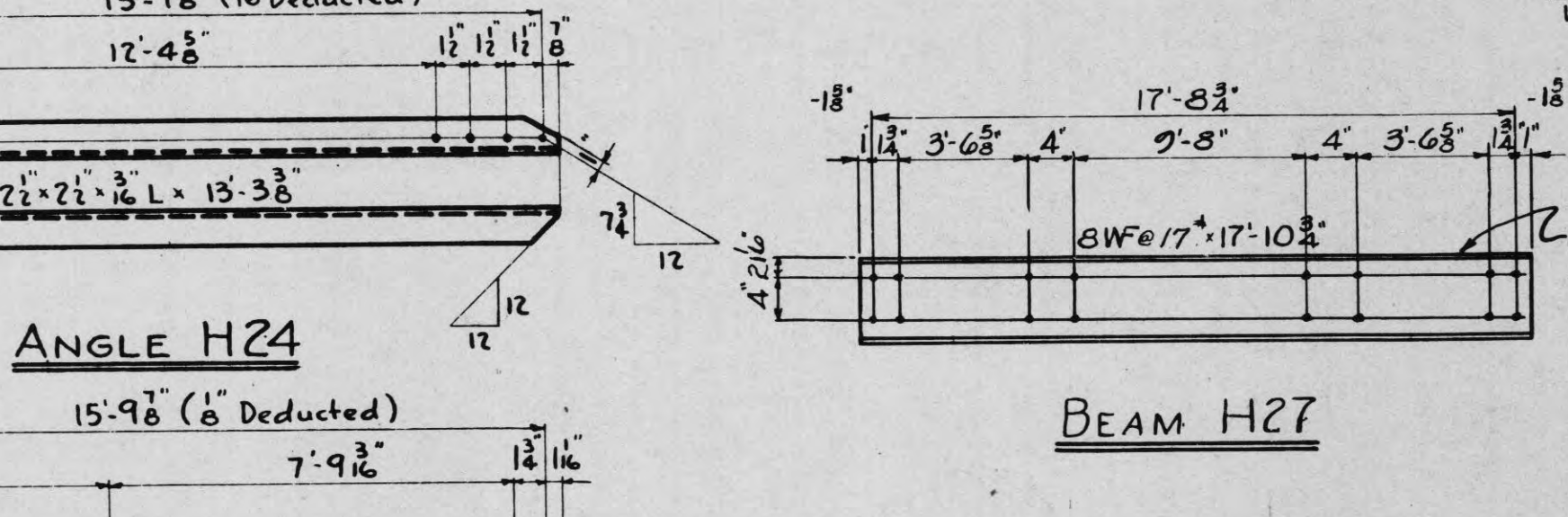
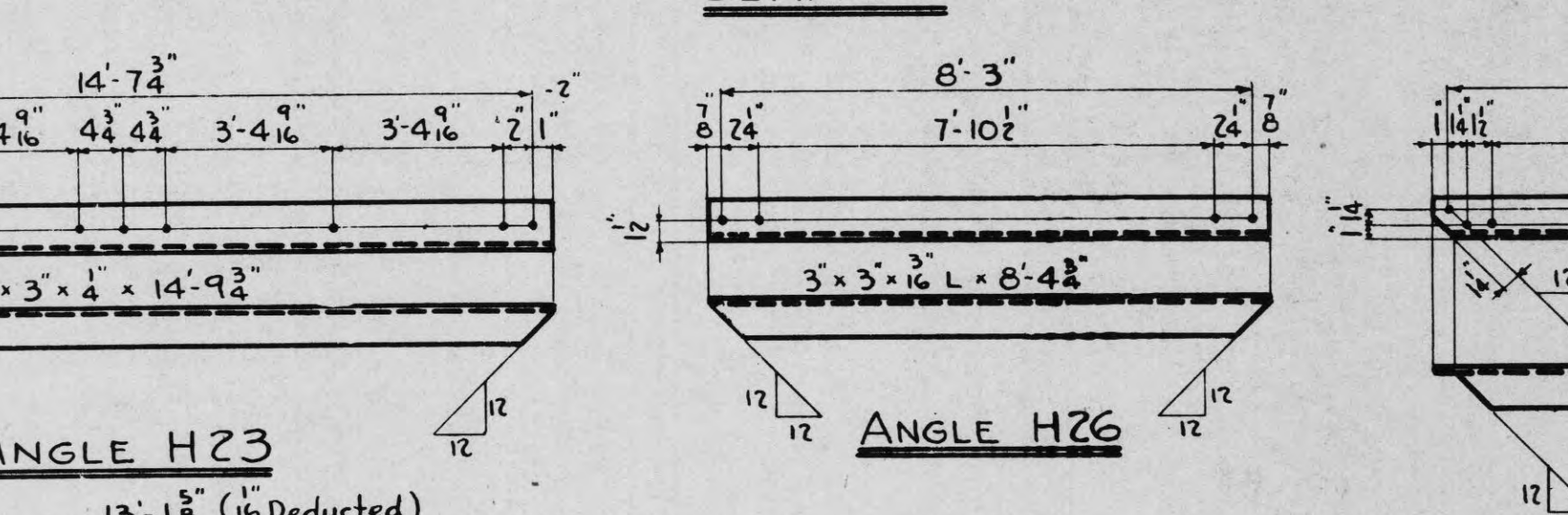
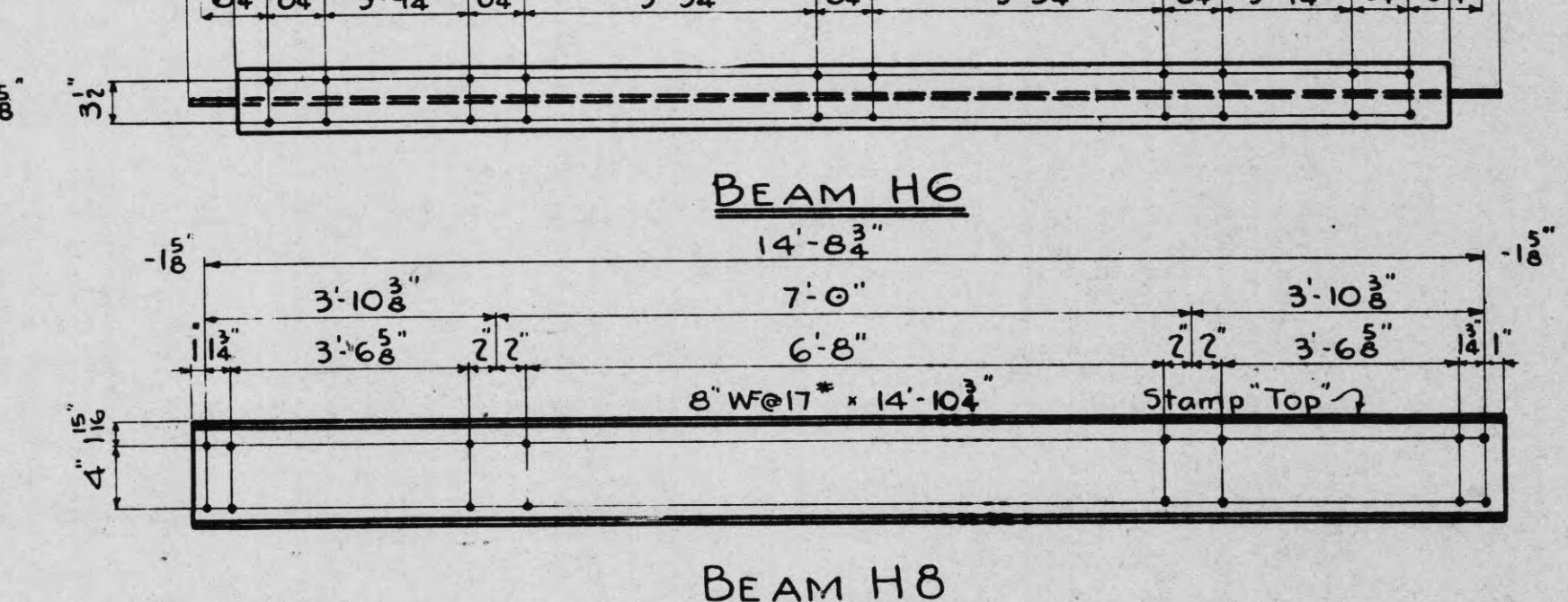
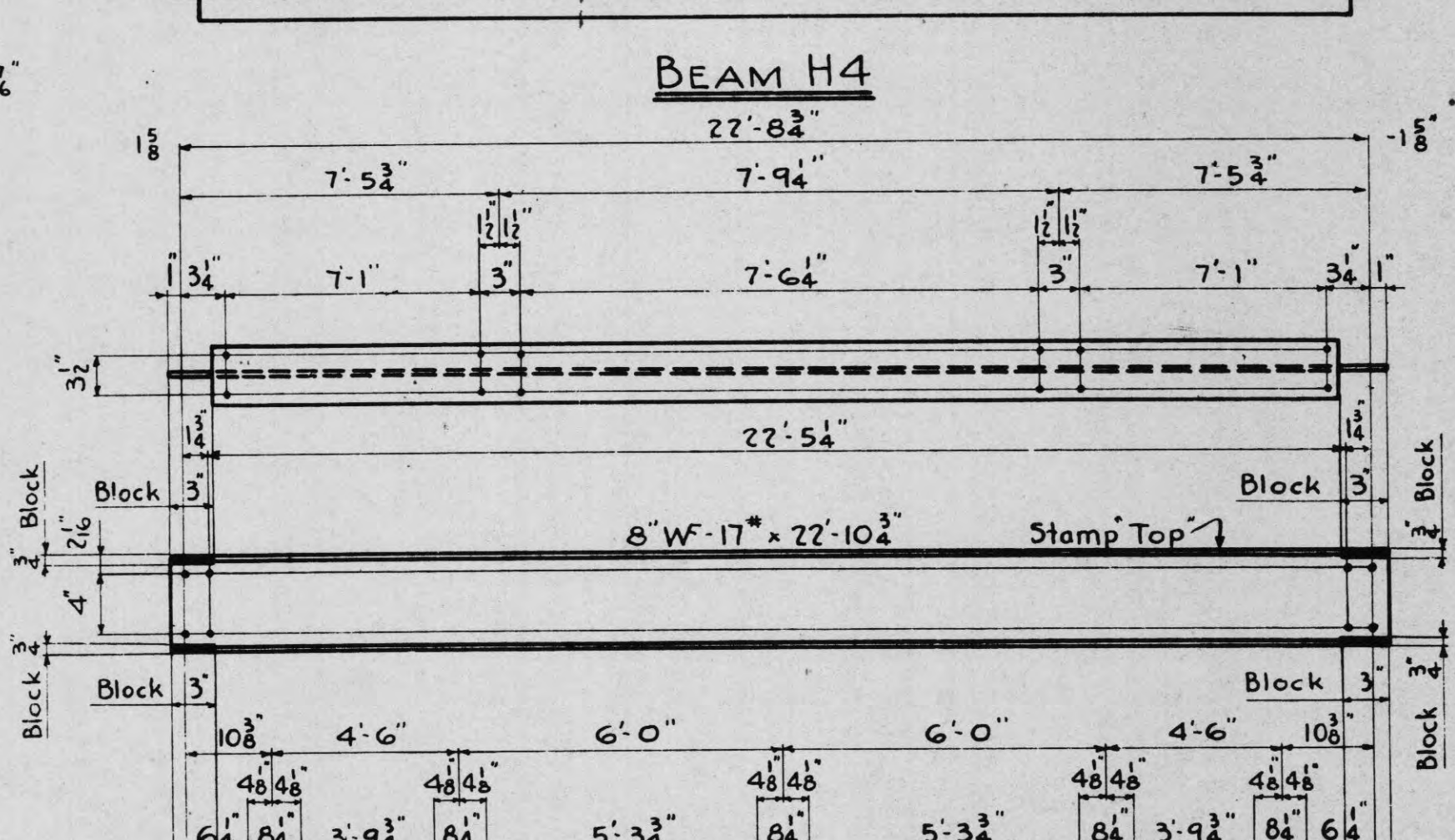
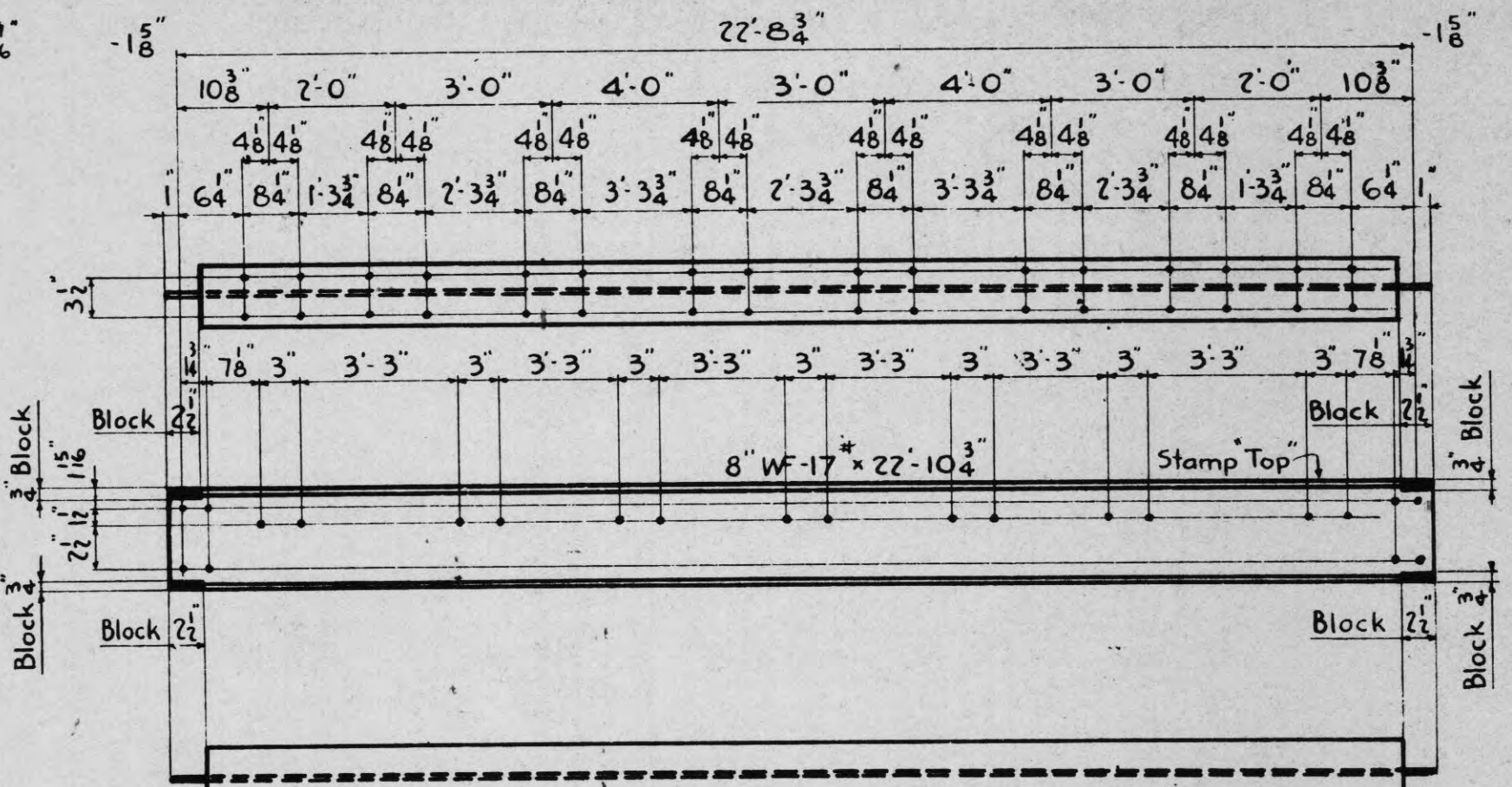
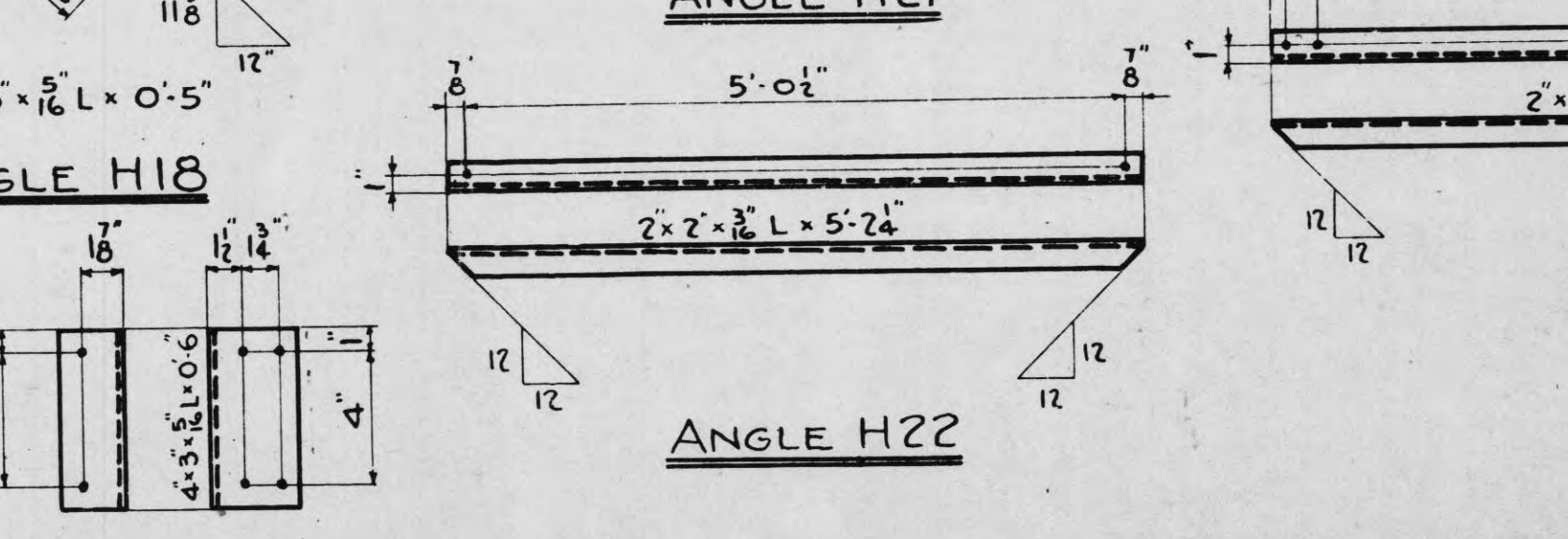
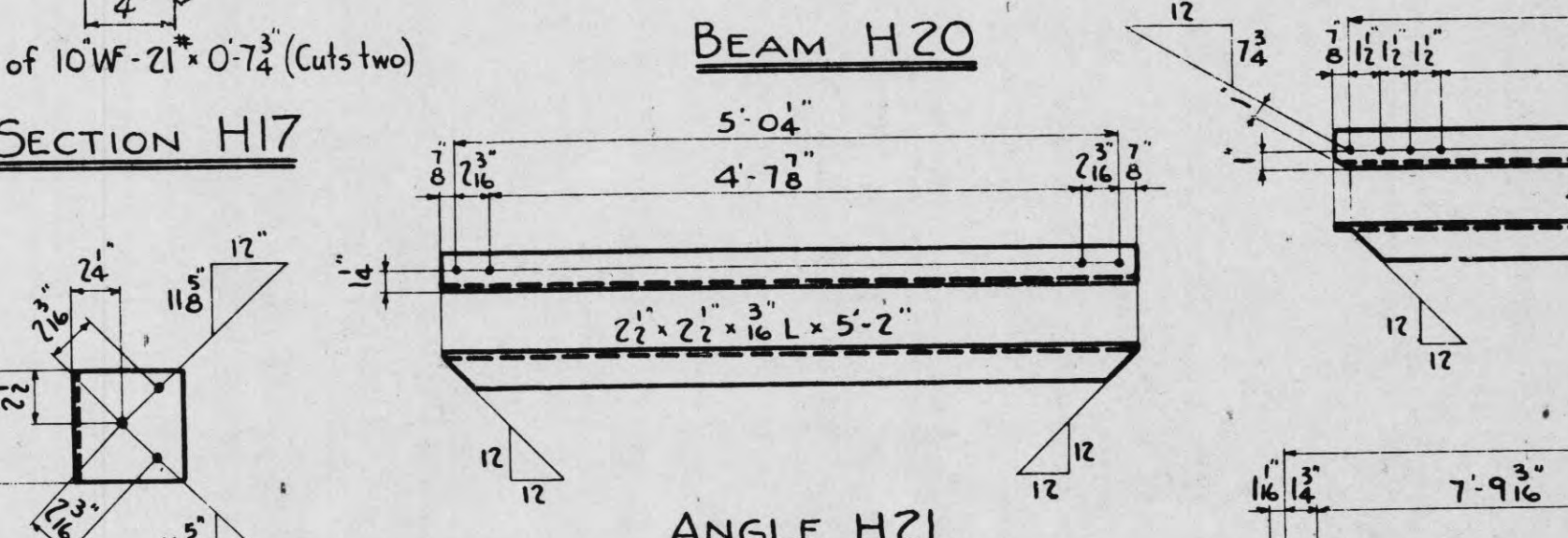
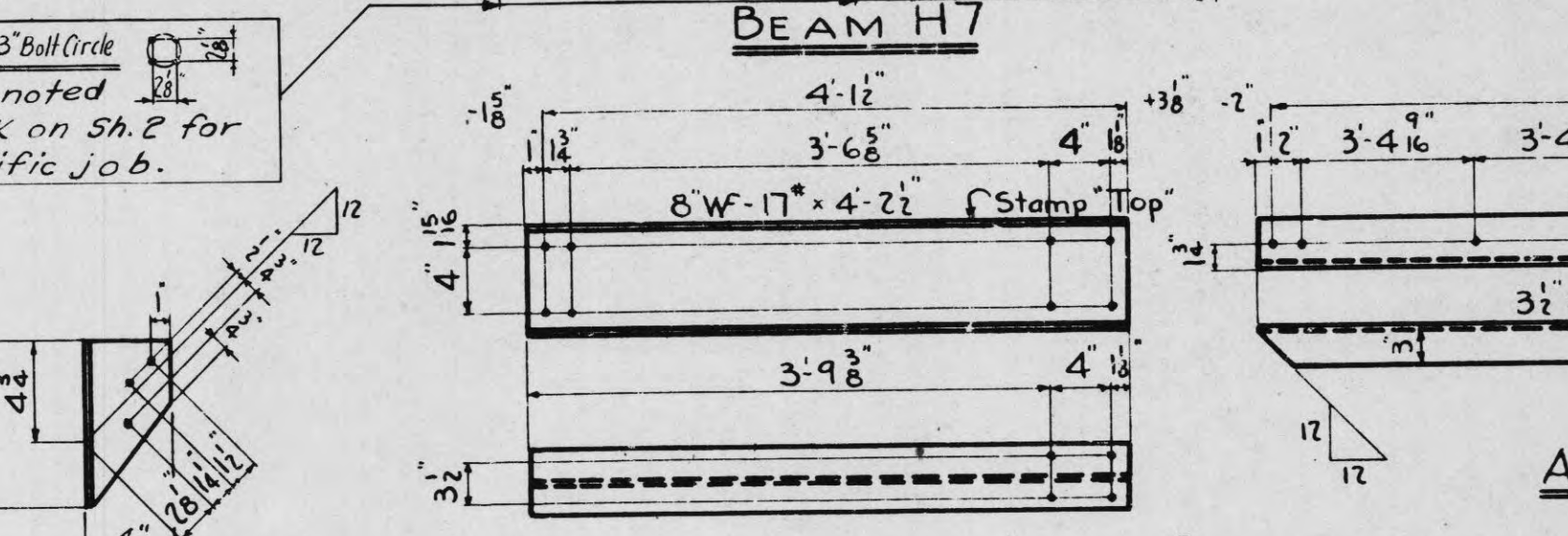
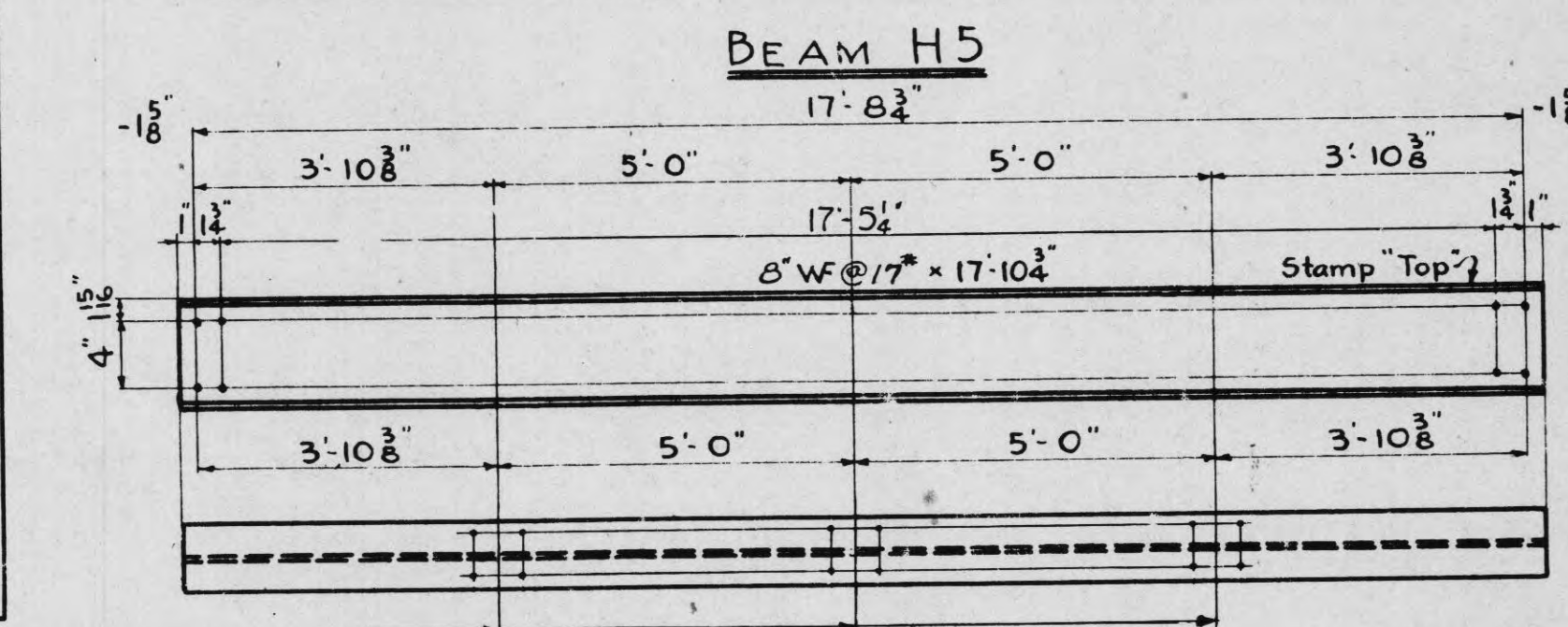
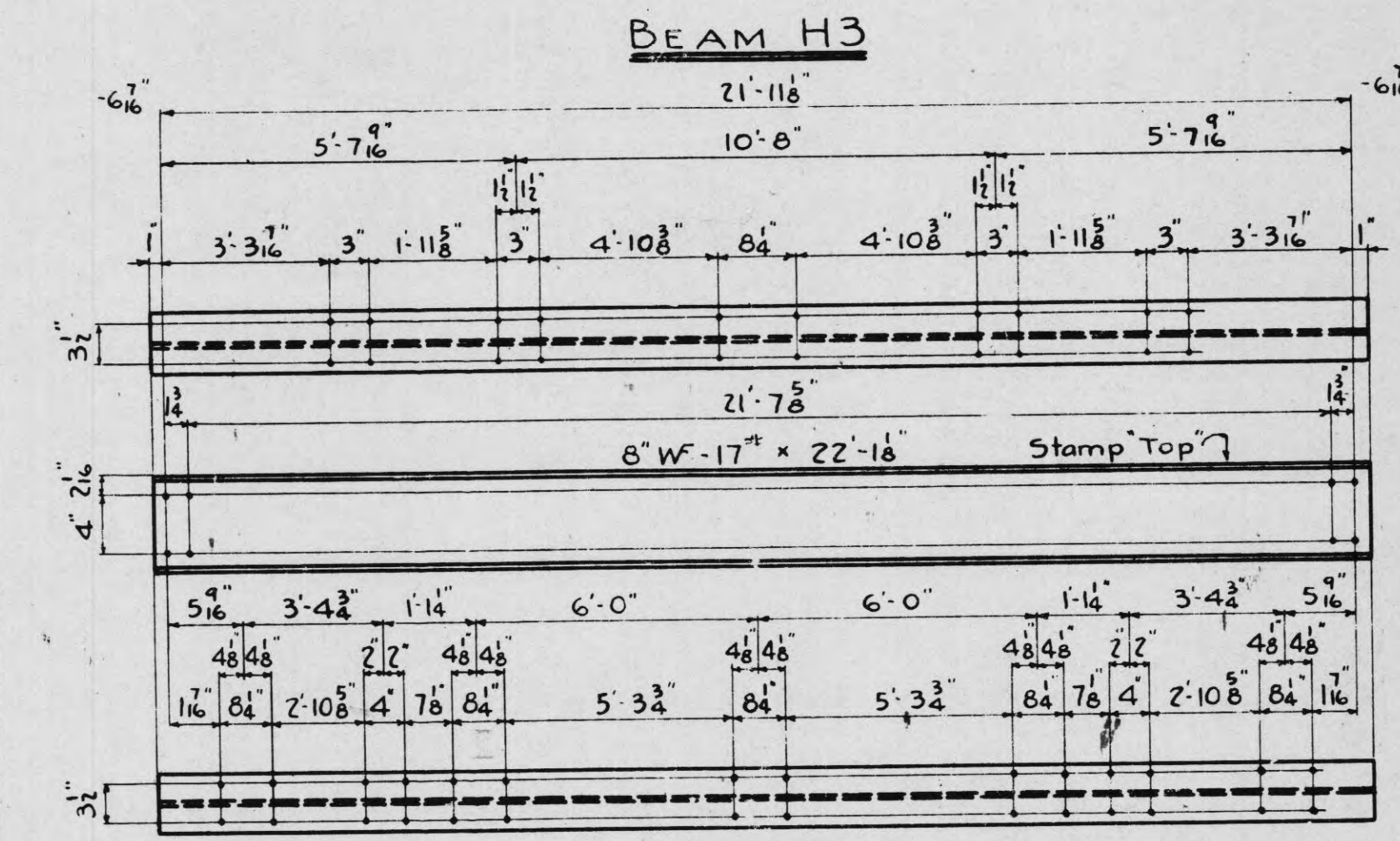
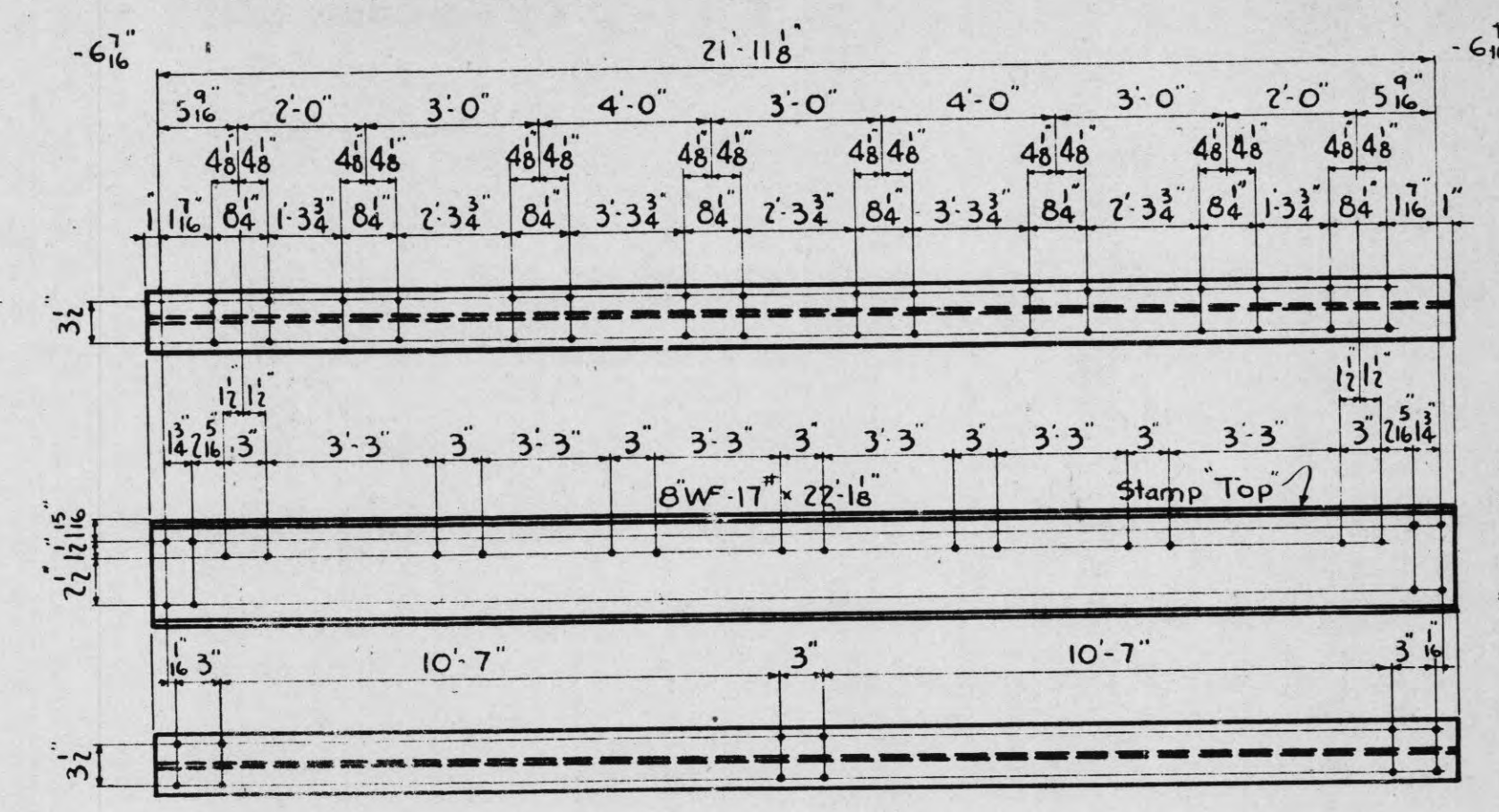
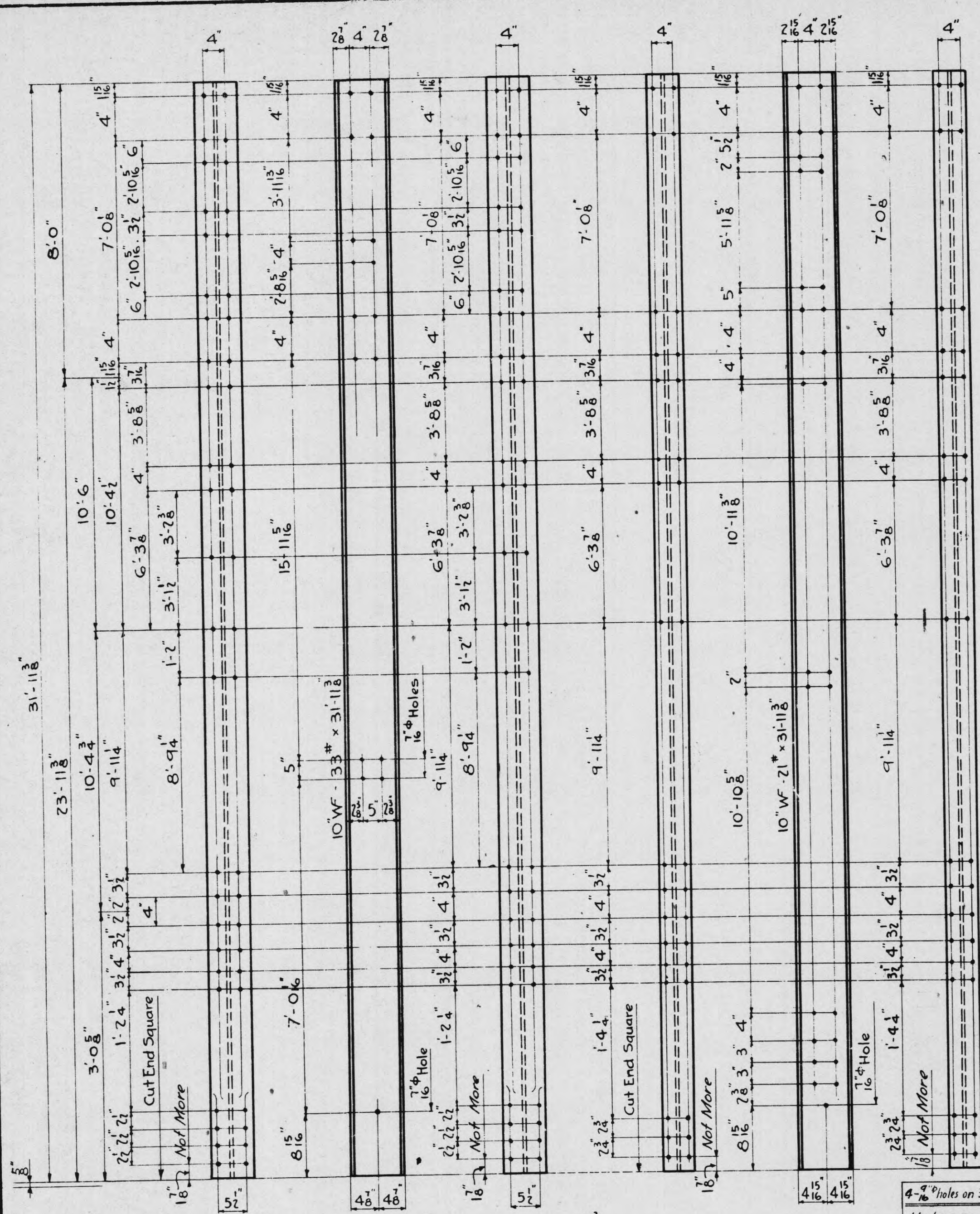
No. REQUIRED	B3-X	B3	MARK	DESCRIPTION	LENGTH		WT. EACH
					FT.	IN.	
2	2		H1	10WF33	31	11 3/4	1088
2	1		H3	8WF17	22	18	387
1	1		H4	Do.	22	10 3/4	401
2	1		H5	Do.	22	18	387
1	-		H6	Do.	22	10 3/4	401
4	2		H14	L5x2 1/2x 3/8 (Cut L5x3 1/2)	0	7 1/2	5
6	3		H15	Do.	0	5 1/4	4
2	-		H17	Section of 10WF21	0	7 3/4	7
7	7		H18	L5x3 1/2x 3/8	0	5	4
32	28		H19	L4x3 1/2x 3/8	0	6	4
6	6		H21	L2 1/2x2 1/2x 3/8	5	2	16
6	-		H22	L2x2x 3/8	5	2 1/4	13
8	4		H26	L3x3x 3/8	8	4 3/8	32
2	-		H30	L3x3x 1/2	5	5 1/8	28
8	8		H32	L5x3 1/2x 3/8	0	10 1/8	10
4	4		H34	L8x4x 1/2	0	10	15
4	4		H35	L4x3x 3/8	0	10	7
4	4		H36	R 3 3/4 x 1/2	0	10	5
2	2		H37	R 14 x 1/2	1	6	37
8	8		H44	Anchor Bolt 1 1/2 x 2 Hex. Nuts	4	3	20
2	-		H48	Section of 8WF17	0	7 3/4	6
1	2		H50	8WF17	21	10 3/4	385
1	2		H51	Do.	21	10 3/4	385
4	-		H52	Section of 10WF21	0	6 1/2	6
2	-		H53	L3x3x 3/8	31	4 3/8	120
14	-			5/8" Bolts	0	1 1/4	0.27
166	77			Do.	0	1 1/2	0.285
123	97			Do.	0	1 3/4	0.305
9	9			Do.	0	2	0.325
26	26			Do.	0	2 1/4	0.35
BUS UNIT B3-X TOTAL WT. 6795*							
BUS UNIT B3 TOTAL WT. 5766*							

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING

SUBSTATIONS GENERAL
66KV BUS & SWITCH STRUCTURE
ERECTION DIAGRAM

REV. NO.	DATE	WORK ORDER	DESIGN	DRAWN	CHKD.	SUPV.	APPR.
1	12-23-69		DIA	EWR			
2			PE				
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COPY 3 OF 3



MARK	NO OF PIECES REQUIRED									
	BUS UNIT B1	BUS UNIT B1-X	BUS UNIT B2	BUS UNIT B2-X	SWITCH SUPPORT S1	SWITCH SUPPORT S1-X	SWITCH SUPPORT S4	BUS UNIT B3	BUS UNIT B3-X	
H1	2	1	2	1	1	1	1	2	2	
H2	4	2	1	1	1	1	1	1	1	
H3	3	3	1	1	1	1	1	1	1	
H4	2	2	1	1	1	1	1	1	1	
H5	3	3	1	1	1	1	1	1	1	
H6	2	2	1	1	1	1	1	1	1	
H7	2	1	2	1	1	1	1	1	1	
H8	2	1	1	1	1	1	1	1	1	
H9	4	2	1	1	1	1	1	1	1	
H10	4	2	1	1	1	1	1	1	1	
H11	4	2	1	1	1	1	1	1	1	
H12	4	2	1	1	1	1	1	1	1	
H13	2	1	1	1	1	1	1	1	1	
H14	6	6	2	2	1	1	1	2	4	
H15	9	9	3	3	1	1	1	3	6	
H16	1	1	1	1	3	3	1	1	1	
H17	2	2	2	2	1	1	1	2	2	
H18	14	14	1	1	7	7	1	7	7	
H19	64	64	24	16	8	8	4	28	32	
H20	1	1	1	1	2	1	1	1	1	
H21	12	12	1	1	6	6	1	6	6	
H22	12	12	1	1	6	6	1	6	6	
H23	8	4	1	1	1	1	1	1	1	
H24	8	4	1	1	1	1	1	1	1	
H25	4	2	1	1	1	1	1	1	1	
H26	12	12	4	4	1	1	1	4	8	
H27	2	1	2	1	1	1	1	1	1	
H30	2	2	2	2	2	1	1	2	2	

NOTES:-
 Holes 1/2" unless otherwise noted.
 Material to be hot-dip galvanized after fabrication.
 Piece marks to be die stamped before galvanizing.

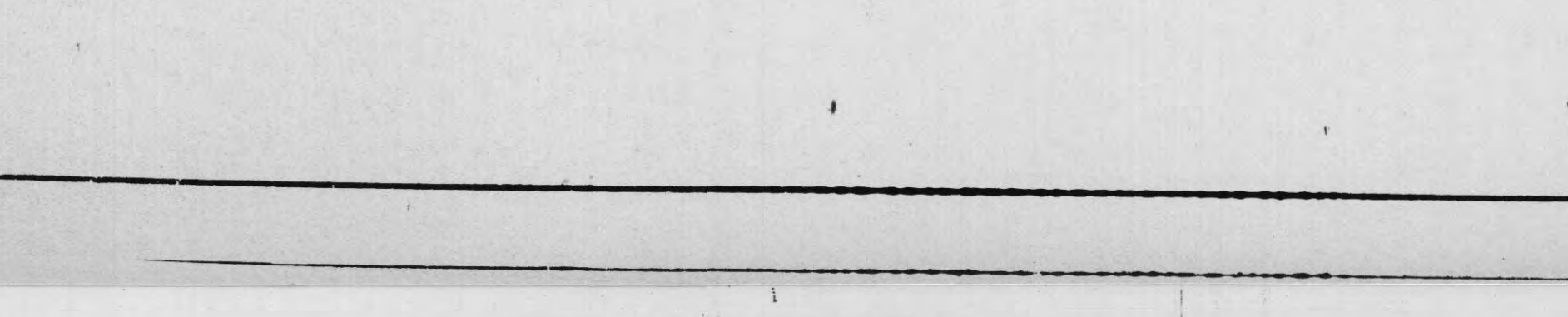
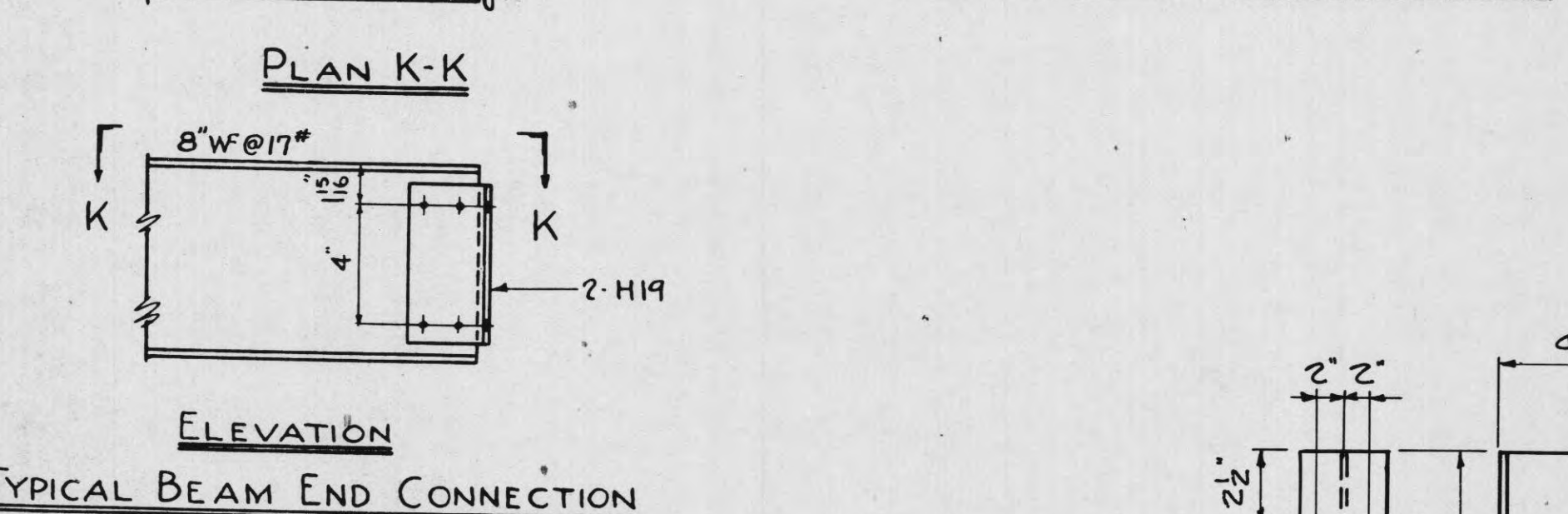
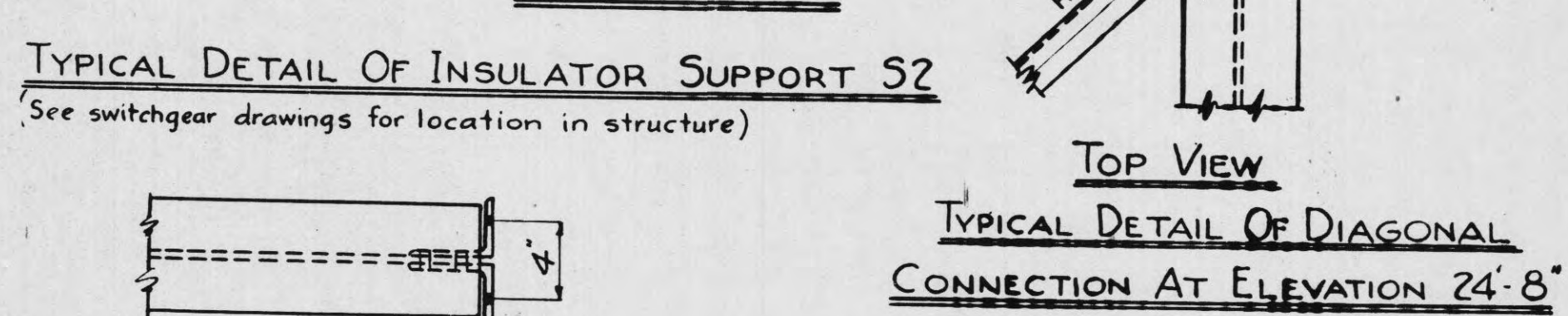
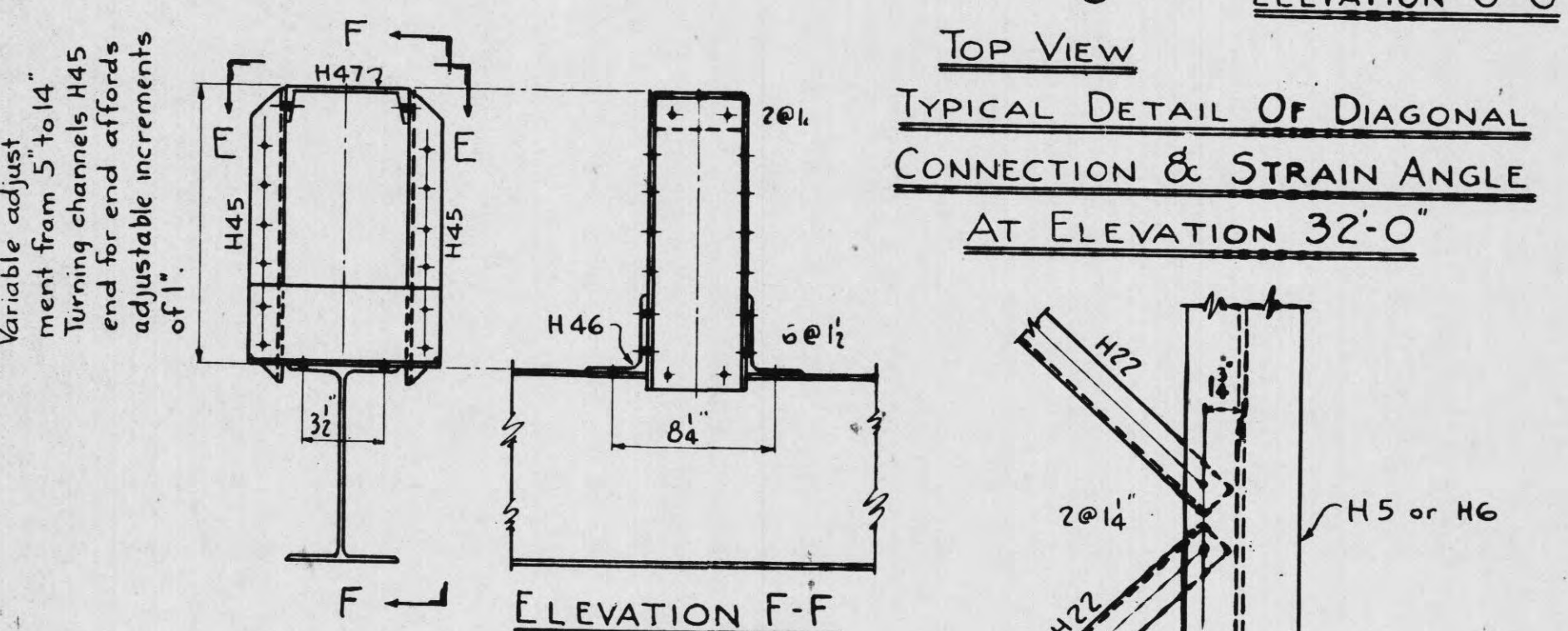
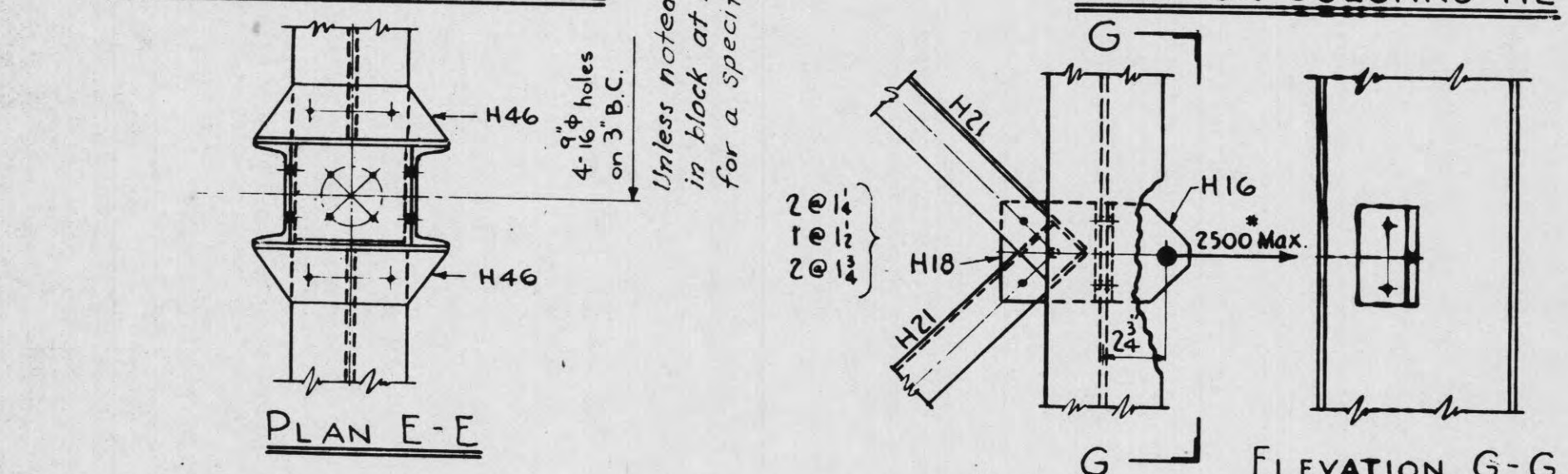
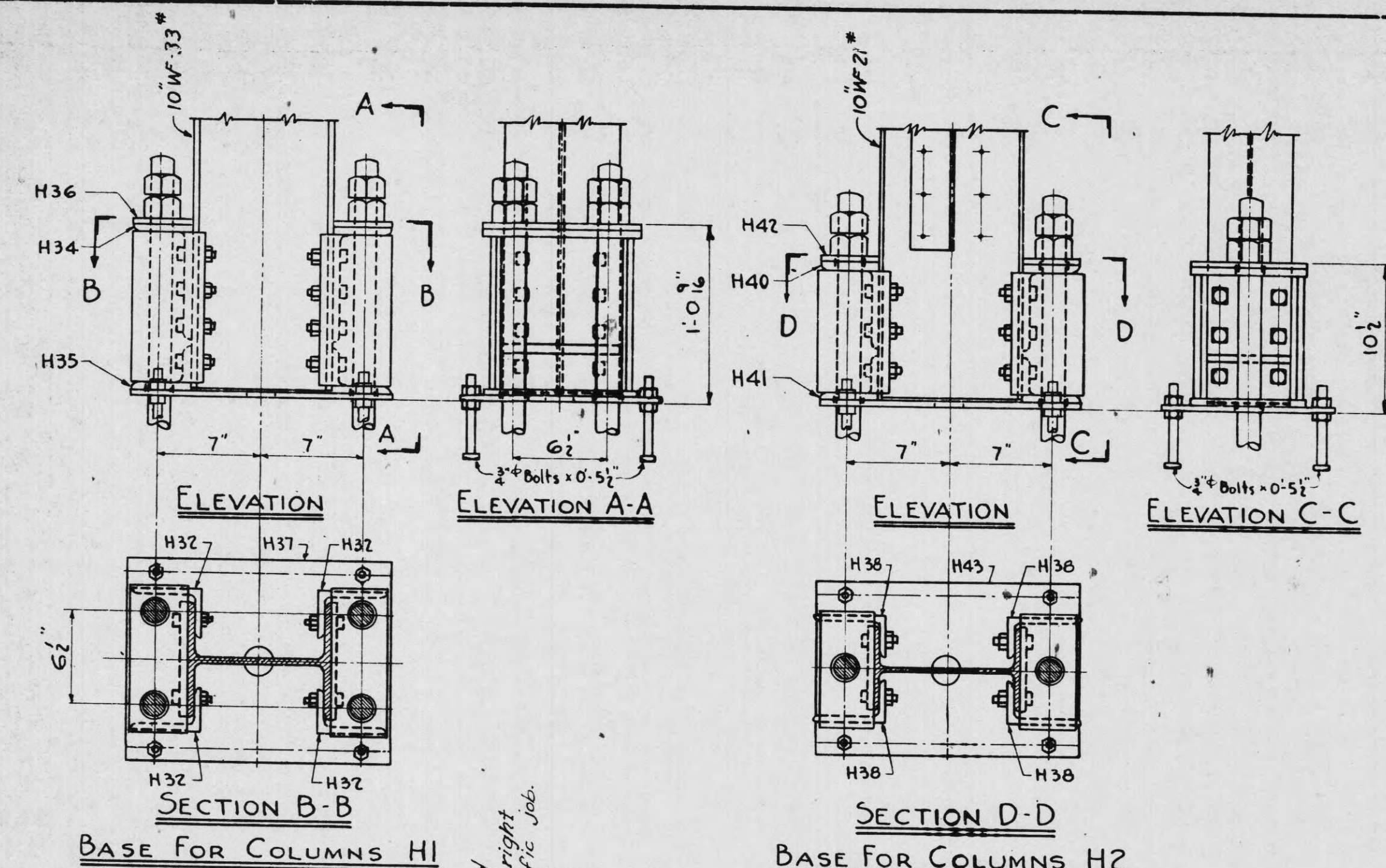
TENNESSEE VALLEY AUTHORITY
 DEPARTMENT OF POWER ENGINEERING AND CONSTRUCTION
SUBSTATIONS GENERAL
66KV. BUS & SWITCH STRUCTURE
STRUCTURAL DETAILS

5	Added Bus Units B3 & B3-X	1/24/43	PTA	PF
4	H12, H27 were 8" WF-24"	9-9-44	WST	OL
3	H19 and H12 were 10" WF-24"	3-8-55	C.P.W.	OL
2	Dimension on H1 was 17'-5 1/2"	7-1-64	WST	OL
1	Noted B.C. both H1, H7	3-24-53	C.K.C.	OL
ISSUE	REVISION	DATE	SIG	

SCALE: None
 DRAWN: J.S.M.
 CHECKED: C.W.D.
 CORRECT: R.F.C.

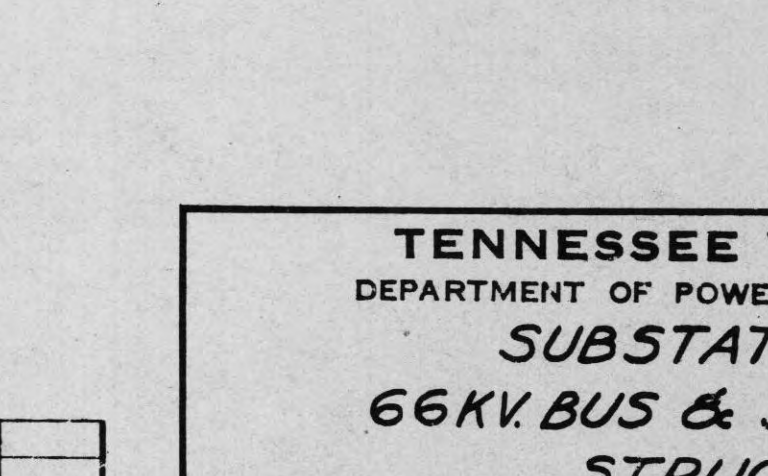
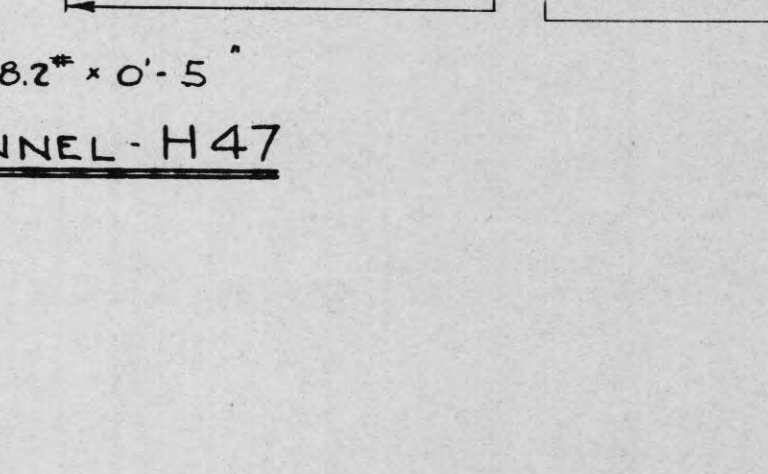
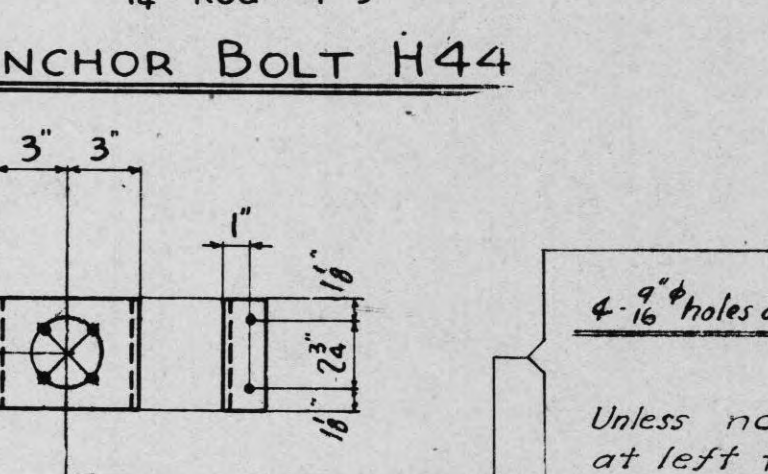
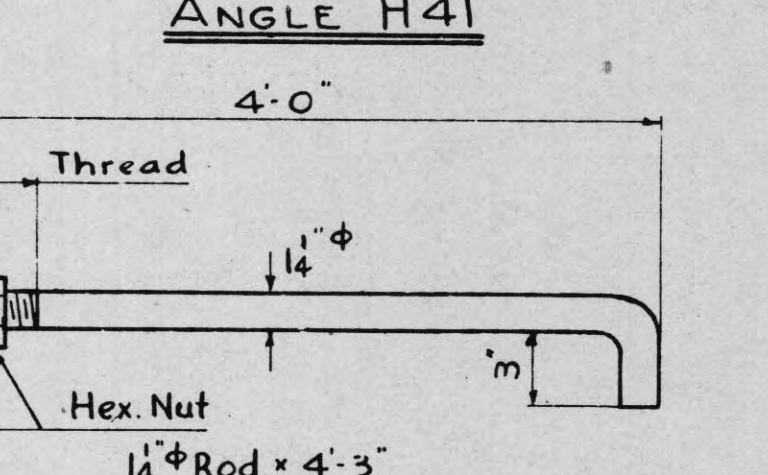
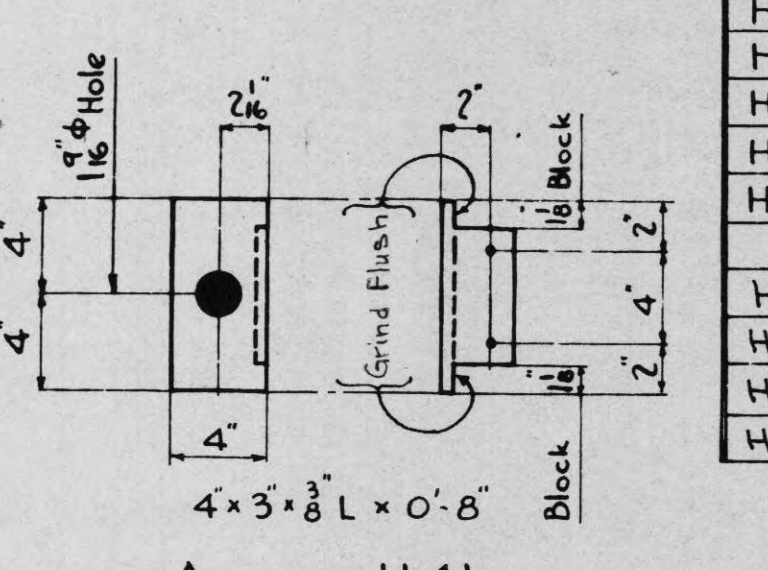
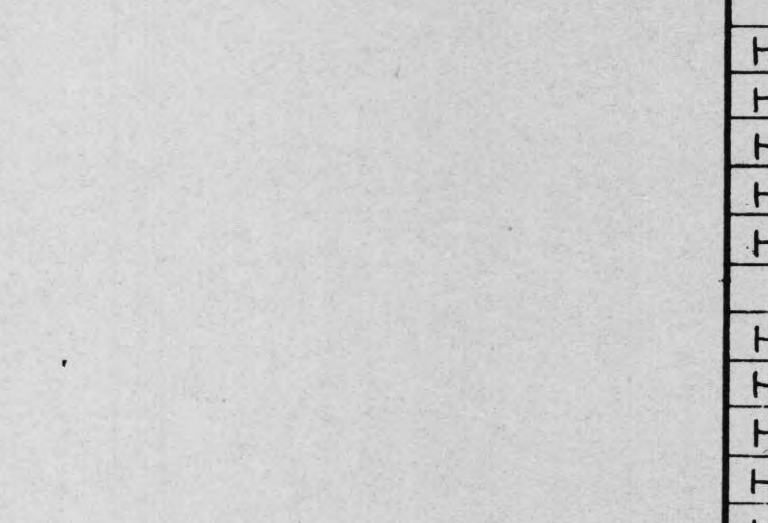
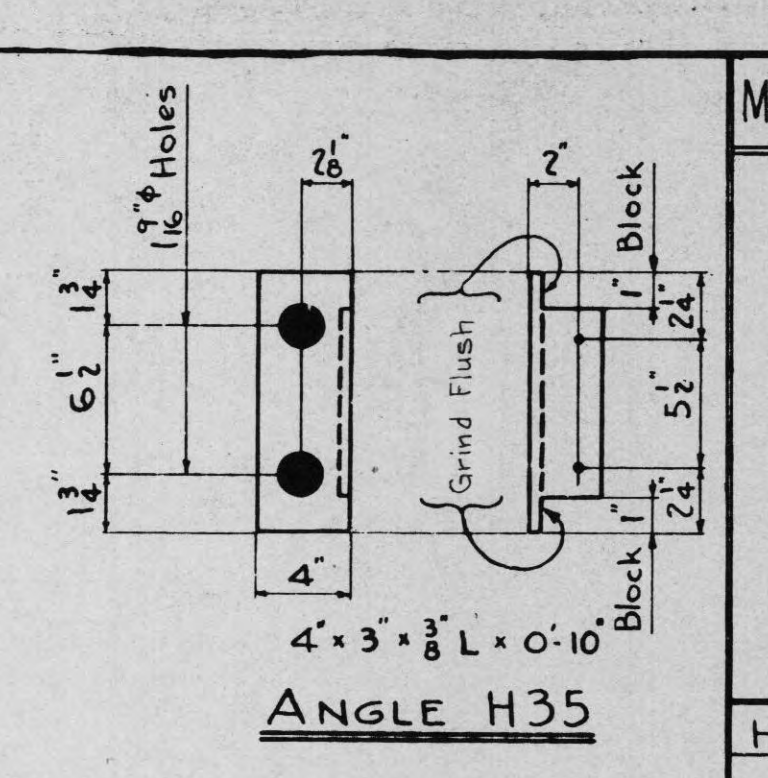
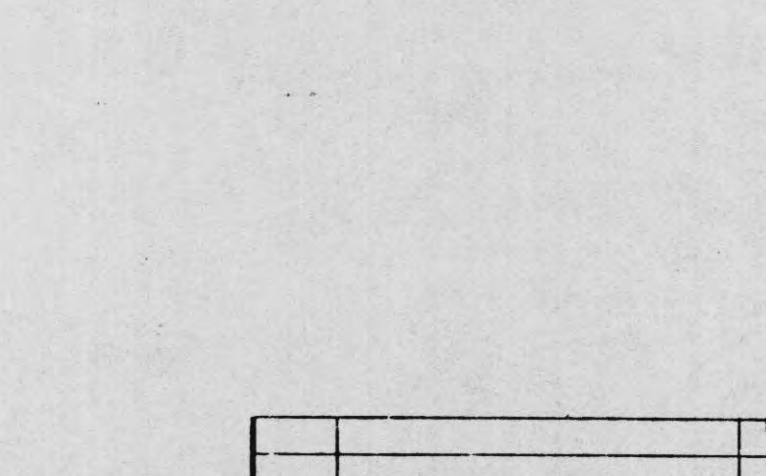
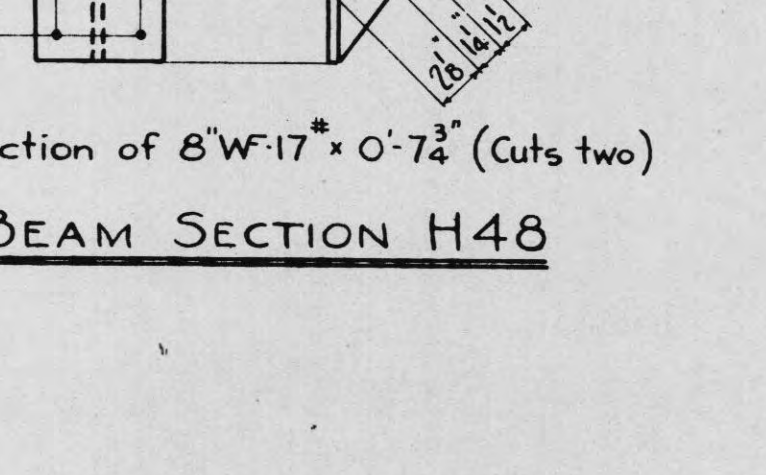
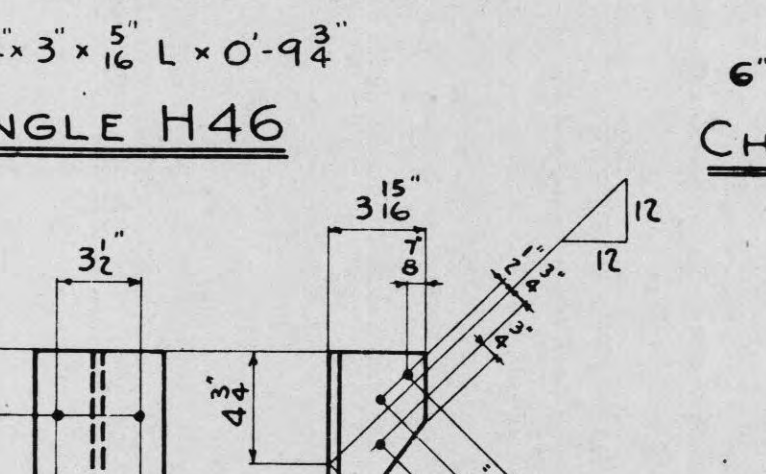
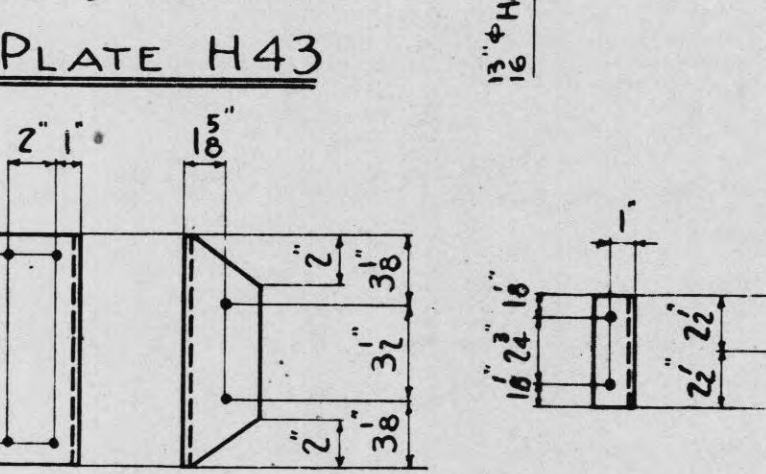
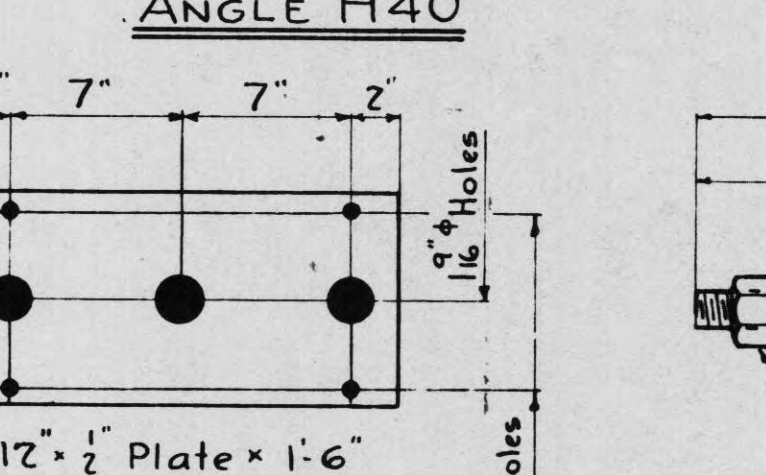
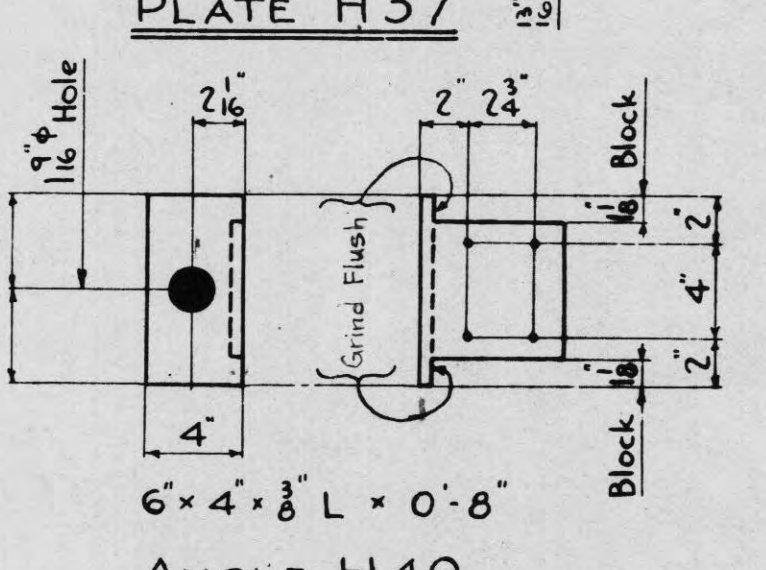
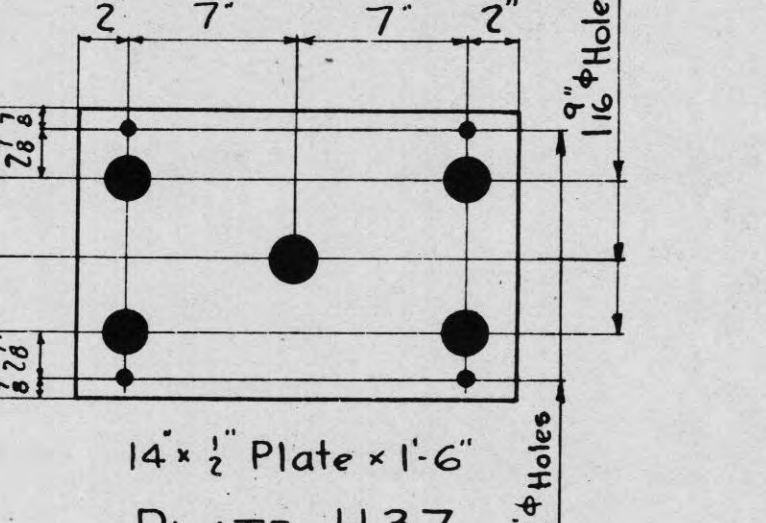
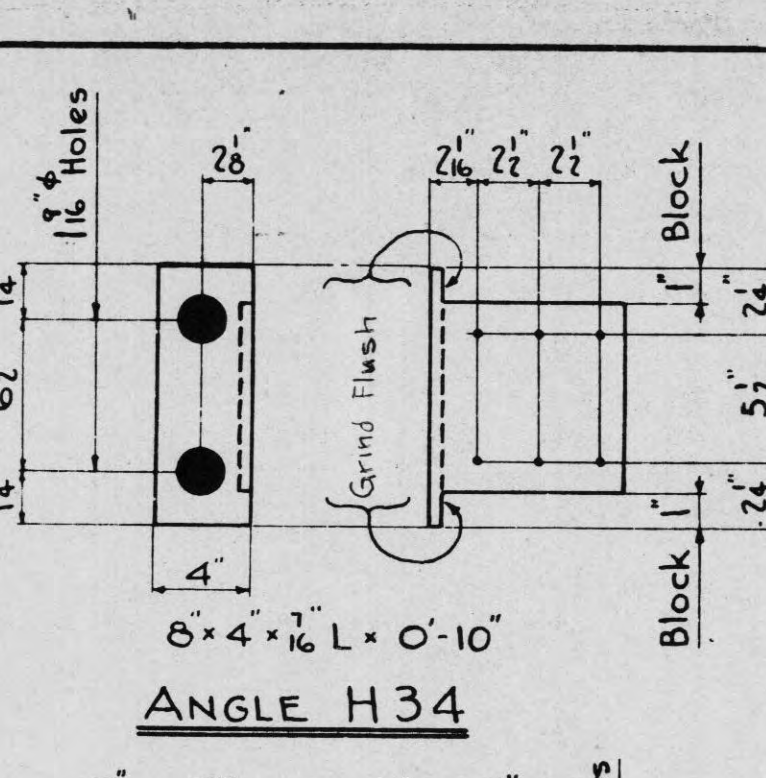
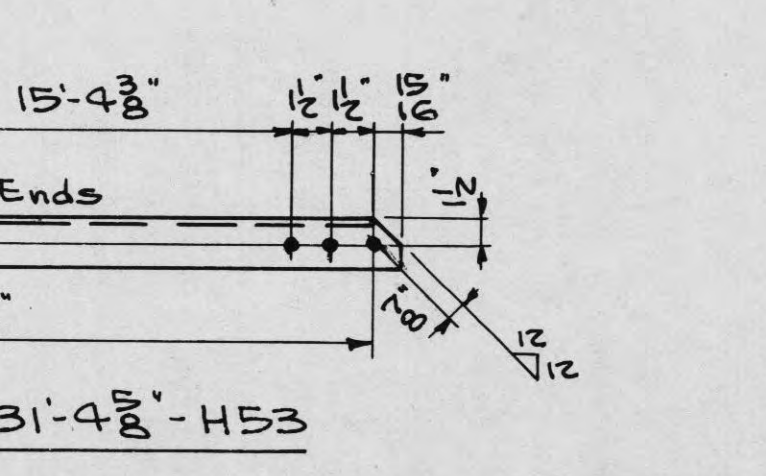
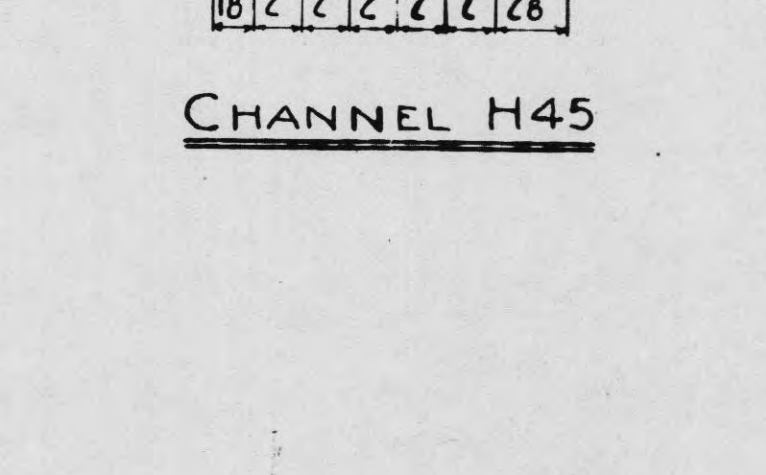
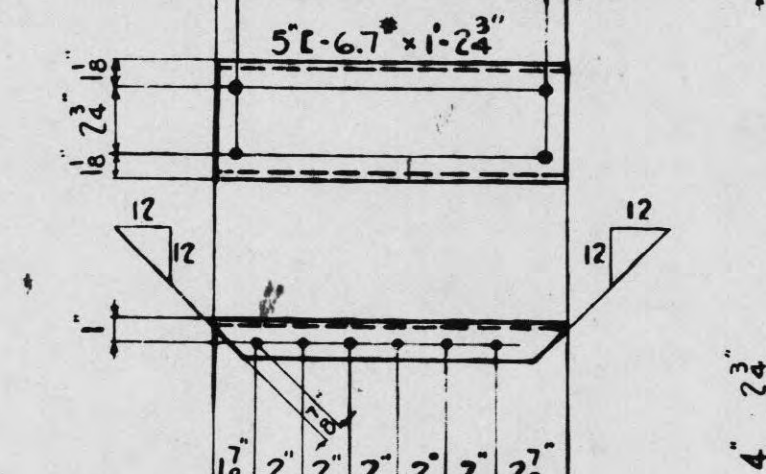
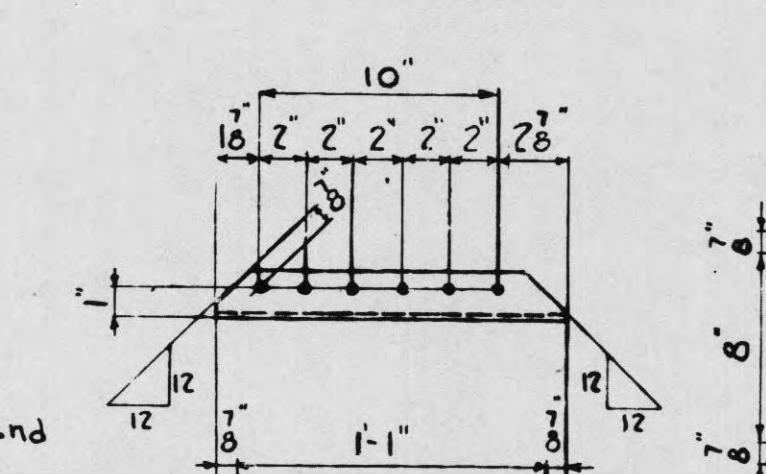
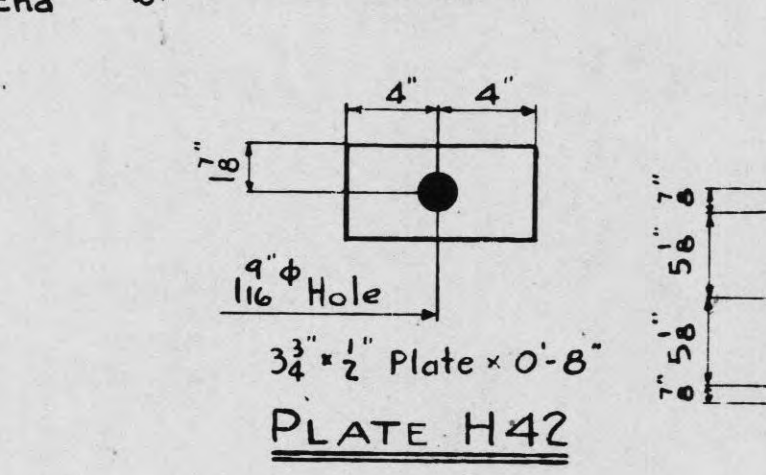
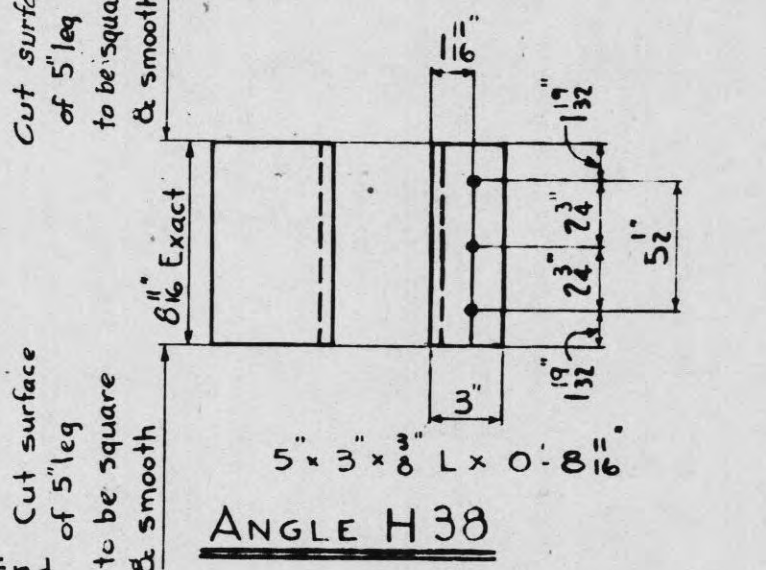
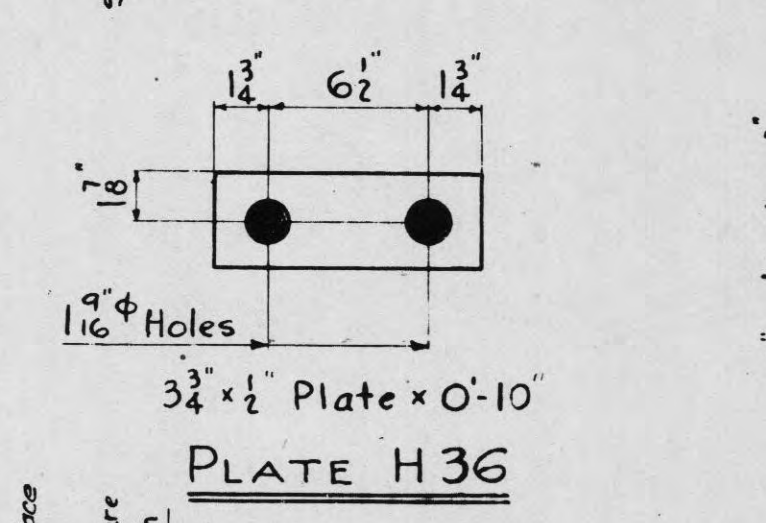
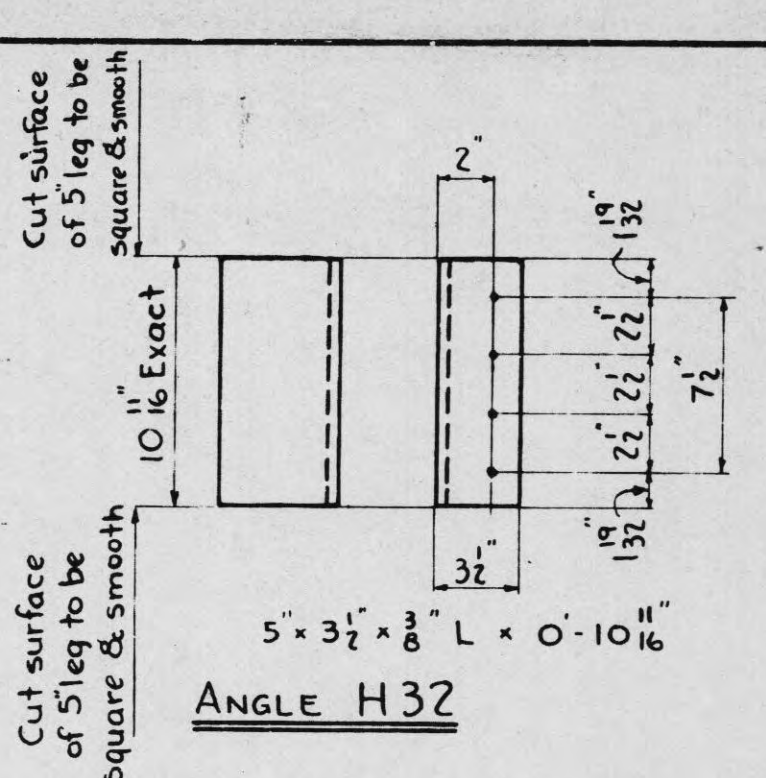
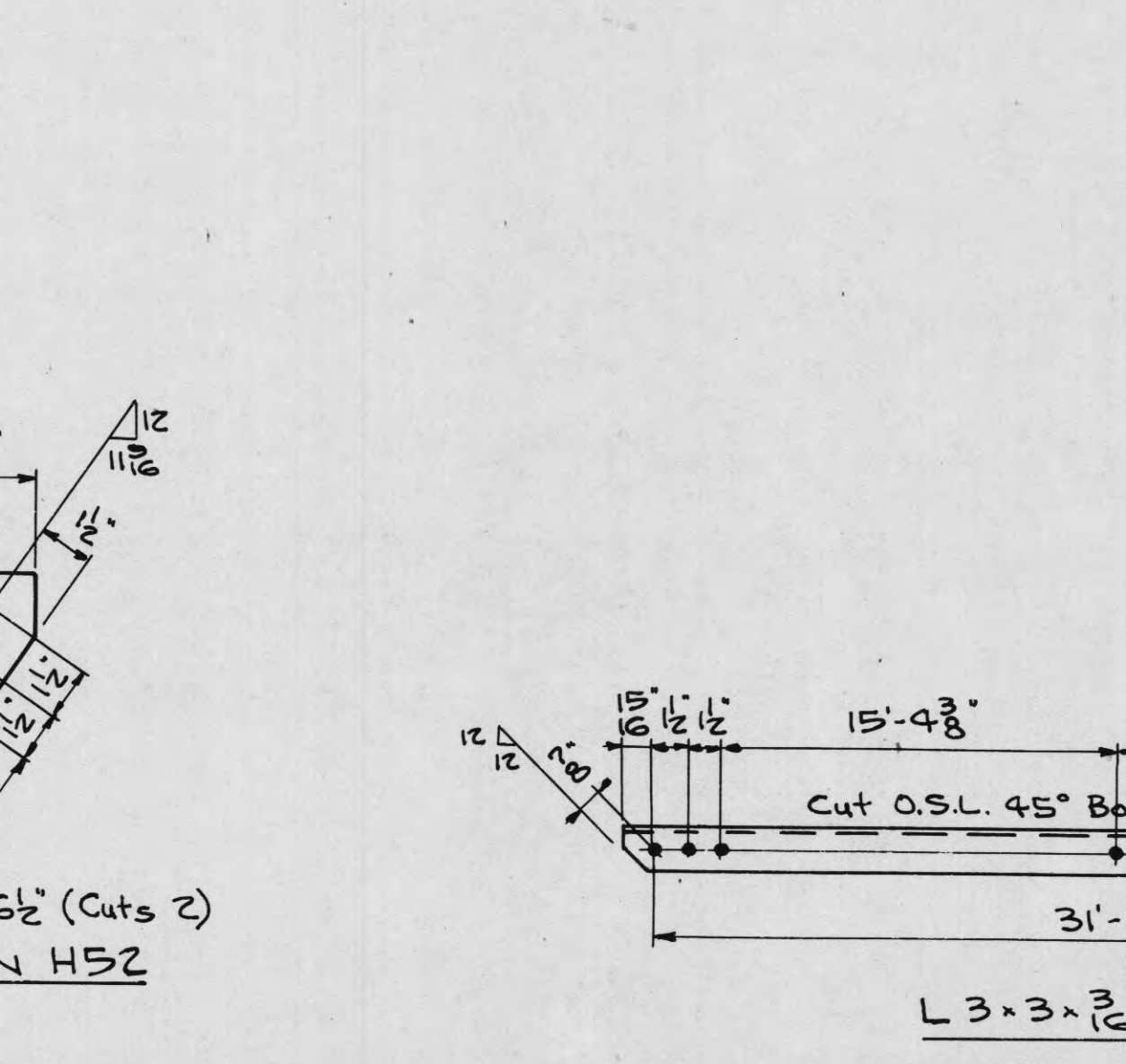
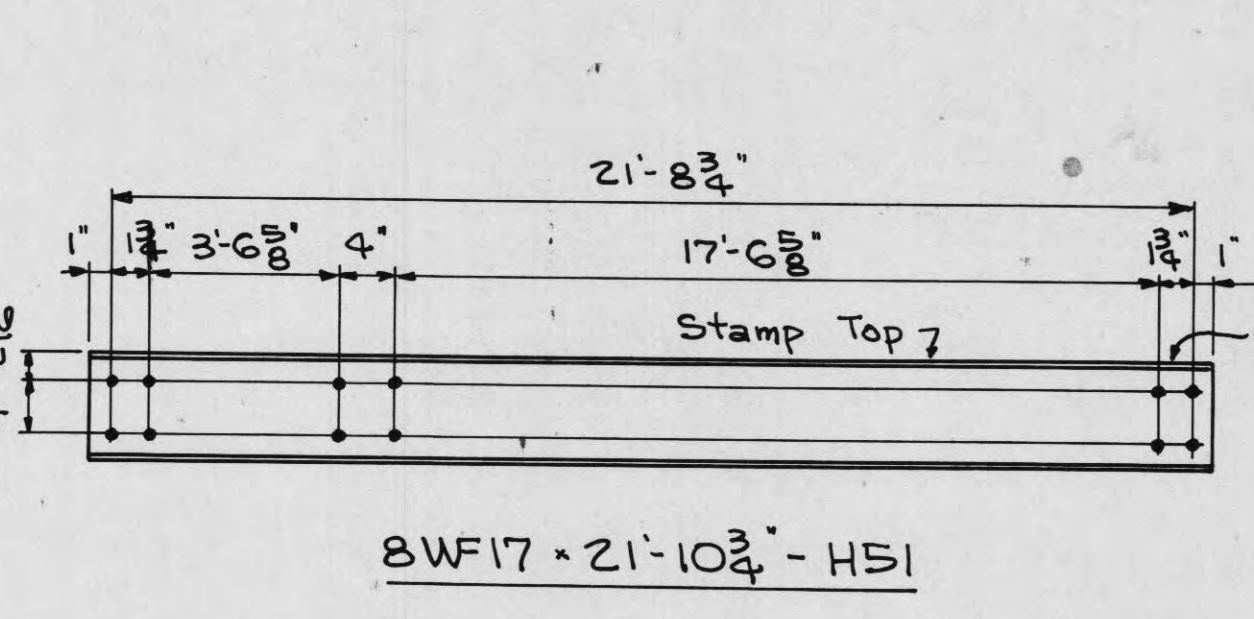
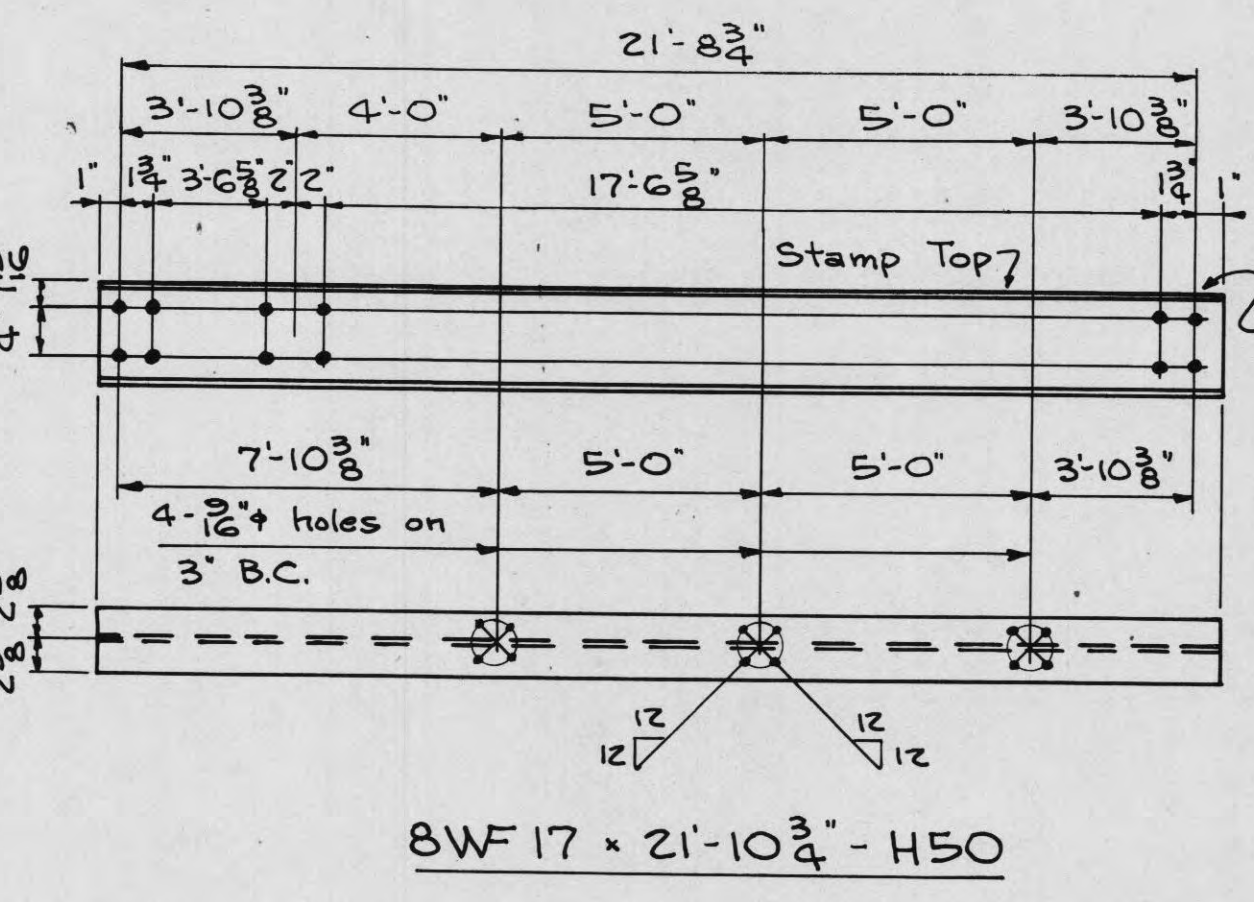
APPROVED: [Signature]
 DATE: 12-16-1943
 SHEET 3 OF 4 SHEETS
LC-23257

R COPY 1 OF 3 R5



5" B.C. Required in H7 & H47 for Requisitions listed below only.

SUBSTATION	REQ. NO.
Albertville Pri.	692453
Shoals Pri.	724022
Cullman Ala.	750384
Fort Payne Pri.	751762
Belfast Pri.	754830
Monsanto Pri.	756862
Russellville Ala.	770140
Monsanto Pri.	805959
Russellville Ala.	808619
Monsanto Pri.	811174
MEMinnville, Tenn.	6569
Cosby, Tenn.	15645



MARK	NO. OF PIECES REQUIRED									
	BUS UNIT B1	BUS UNIT B1-X	BUS UNIT B2	BUS UNIT B2-X	SWITCH SUPPORT S1	SWITCH SUPPORT S1-X	ONE INSULATOR SUPPORT S2	BUS UNIT B3	BUS UNIT B3-X	
H32	8	4	8	4	1	1	1	8	8	
H34	4	2	4	2	1	1	1	4	4	
H35	4	2	4	2	1	1	1	4	4	
H36	4	2	4	2	1	1	1	4	4	
H37	2	1	2	1	1	1	1	2	2	
H38	16	8	16	8	1	1	1	16	16	
H40	8	4	8	4	1	1	1	8	8	
H41	8	4	8	4	1	1	1	8	8	
H42	8	4	8	4	1	1	1	8	8	
H43	4	2	4	2	1	1	1	4	4	
H44	16	8	16	8	1	1	1	16	16	
H45	1	1	1	1	1	1	1	1	1	
H46	1	1	1	1	1	1	1	1	1	
H47	1	1	1	1	1	1	1	1	1	
H48	2	2	2	2	1	1	1	2	2	
H50	1	1	1	1	1	1	1	1	1	
H51	1	1	1	1	1	1	1	1	1	
H52	1	1	1	1	1	1	1	1	1	
H53	1	1	1	1	1	1	1	1	1	

NOTES:-
Holes 1/16" unless otherwise noted.
Material to be hot dip galvanized after fabrication.
Piece marks to be die stamped before galvanizing.

TENNESSEE VALLEY AUTHORITY
DEPARTMENT OF POWER ENGINEERING AND CONSTRUCTION
SUBSTATIONS GENERAL
66KV. BUS & SWITCH STRUCTURE
STRUCTURAL DETAILS

ISSUE	REVISION	DATE	SIG
3	Added Bus Units B3 & B3-X	1/15/63	DTA
2	Noted B.C. on H41; length was 4 1/2"	2/15/63	OKC
1	Added hole H57; H43	2/15/63	WGL

SCALE None
DRAWN J.C.H.
CHECKED C.W.D.
CORRECT R.F.C.

SUBMITTED 1/15/63
APPROVED 2/15/63
DATE 12-16-1948
SHEET 2 of 4 SHEETS
LC-23257