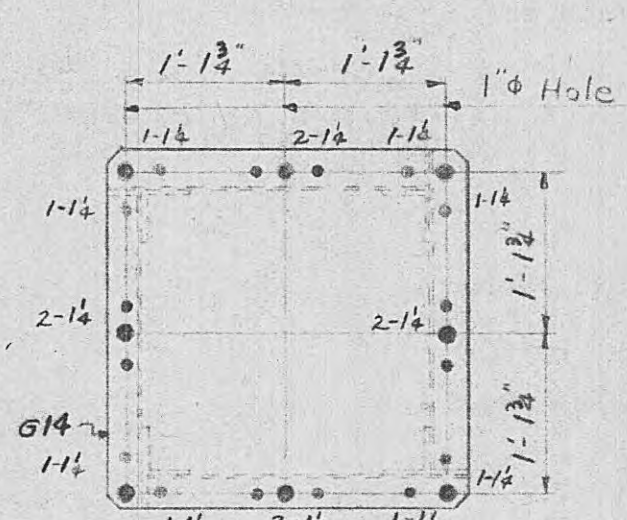
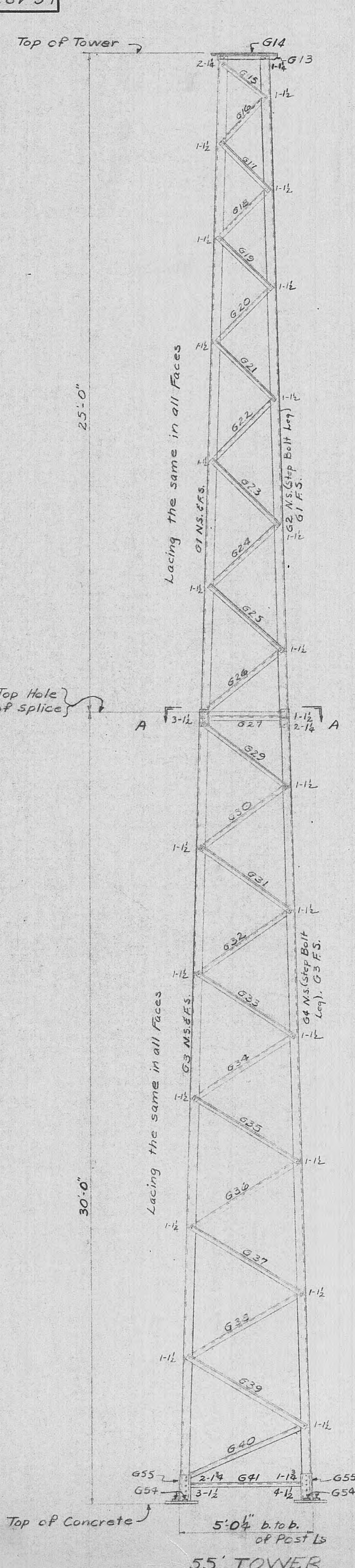
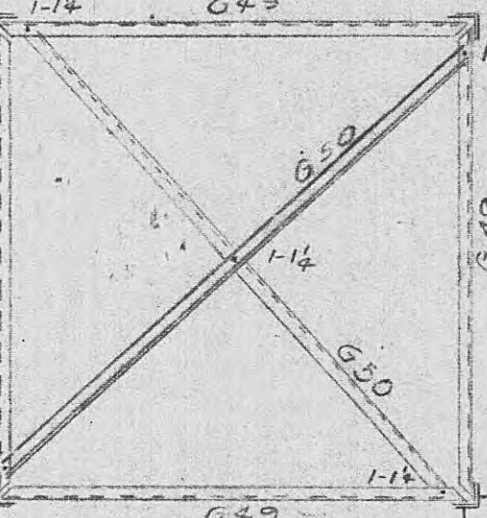
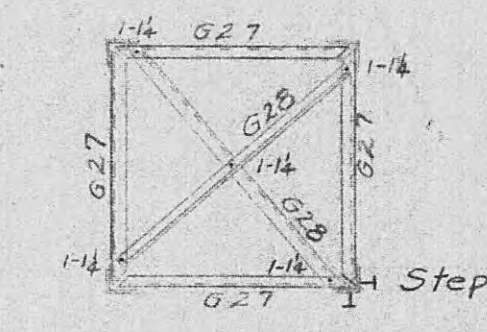




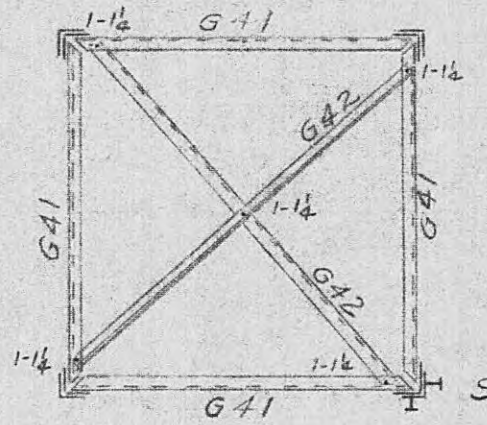
TOP PLAN



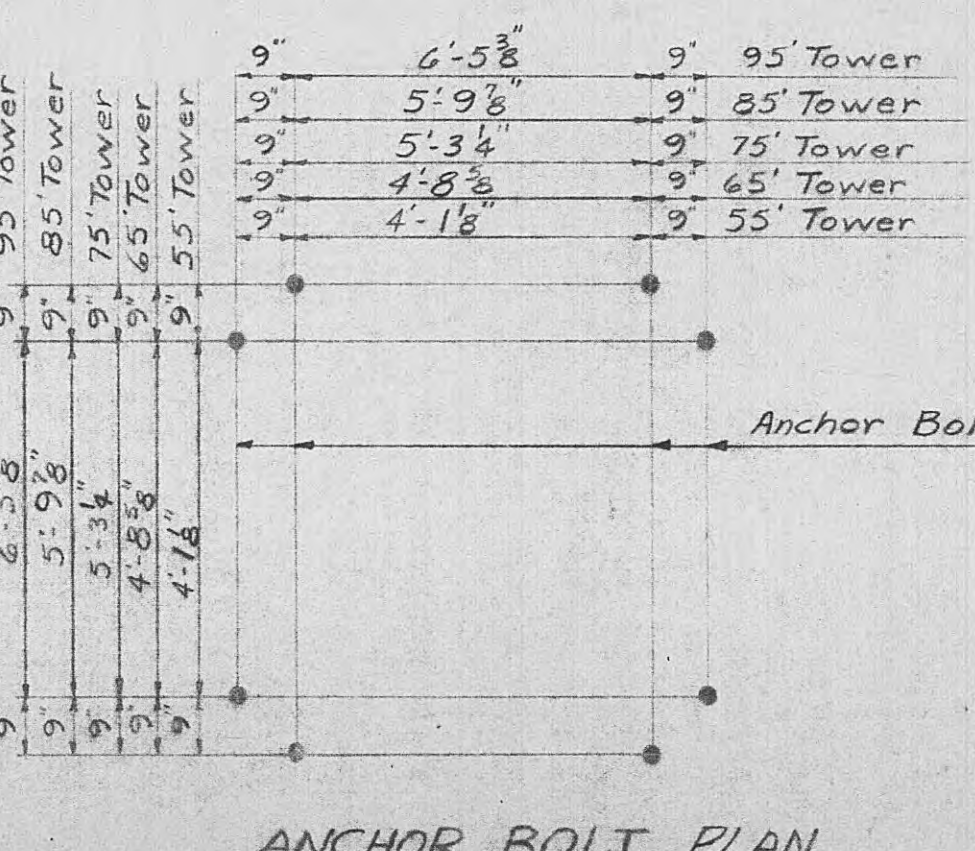
SECTION C-C



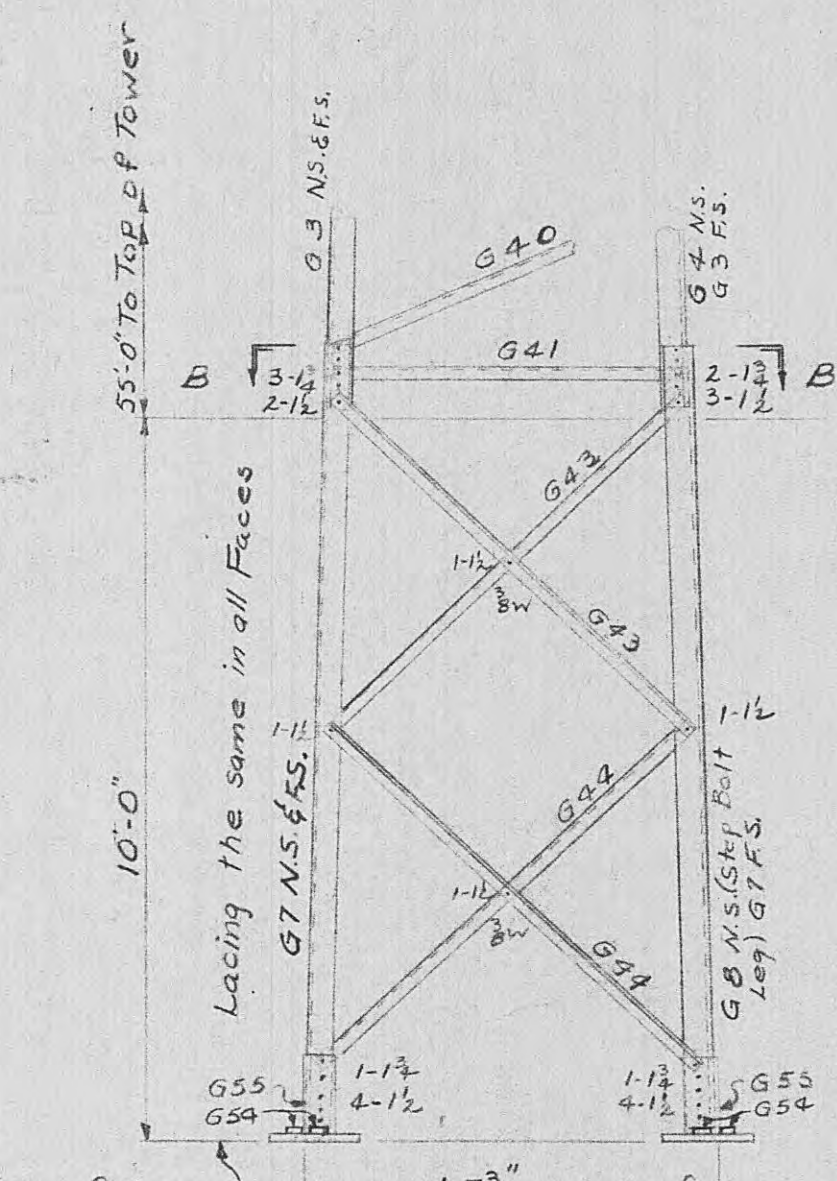
SECTION A-A



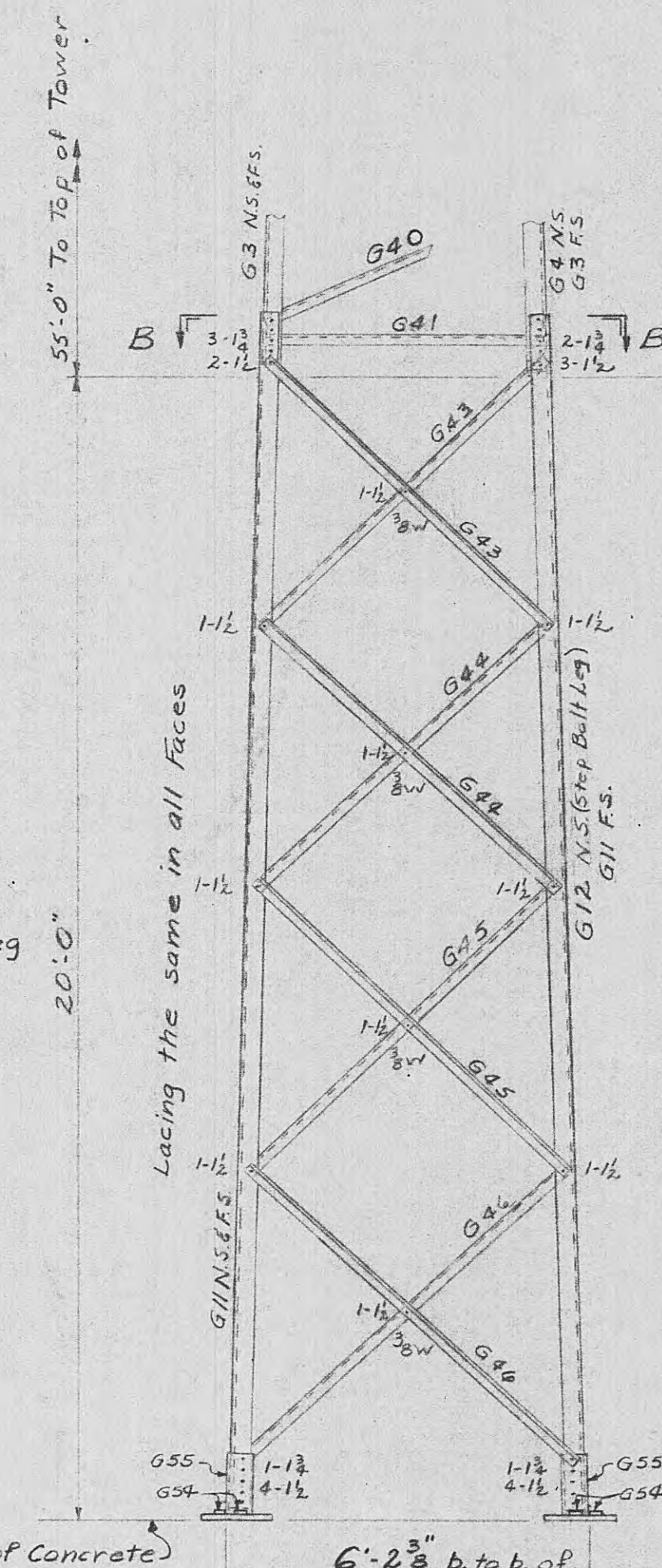
SECTION B-B



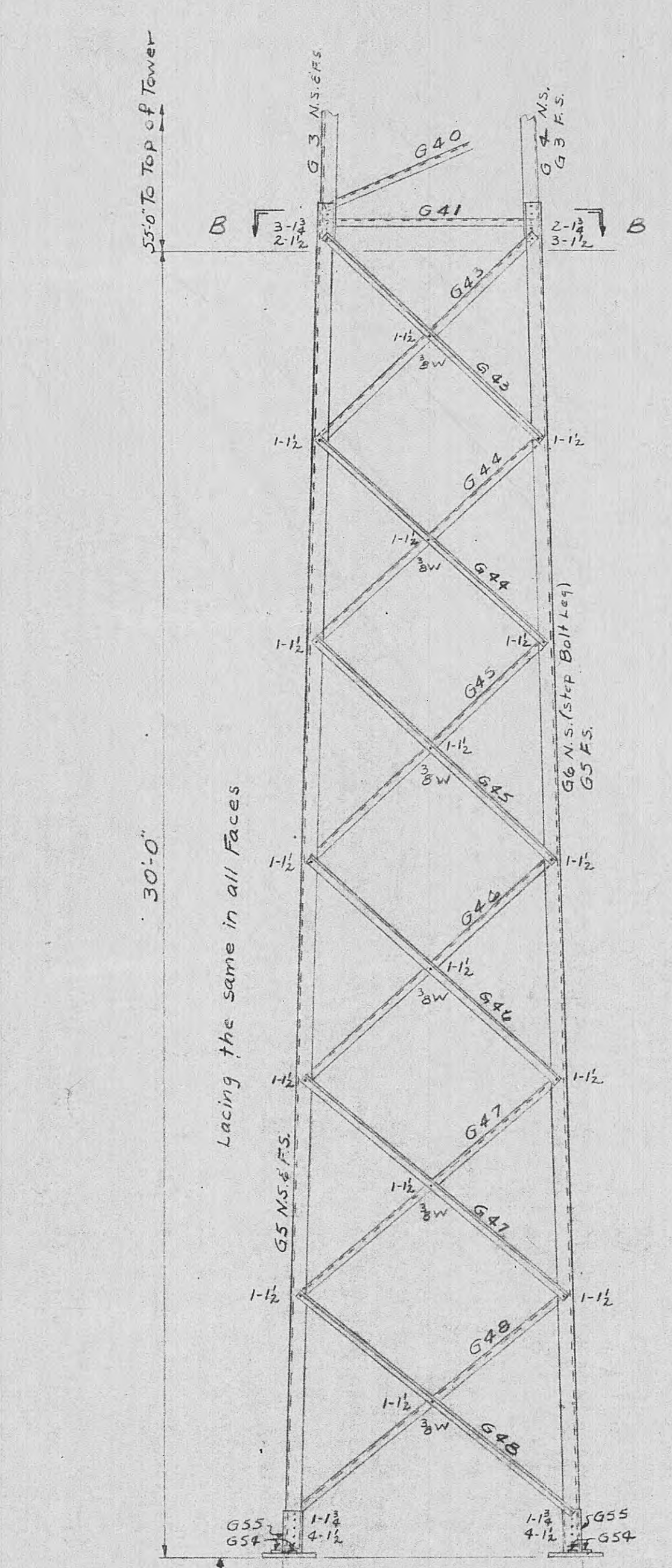
ANCHOR BOLT PLAN



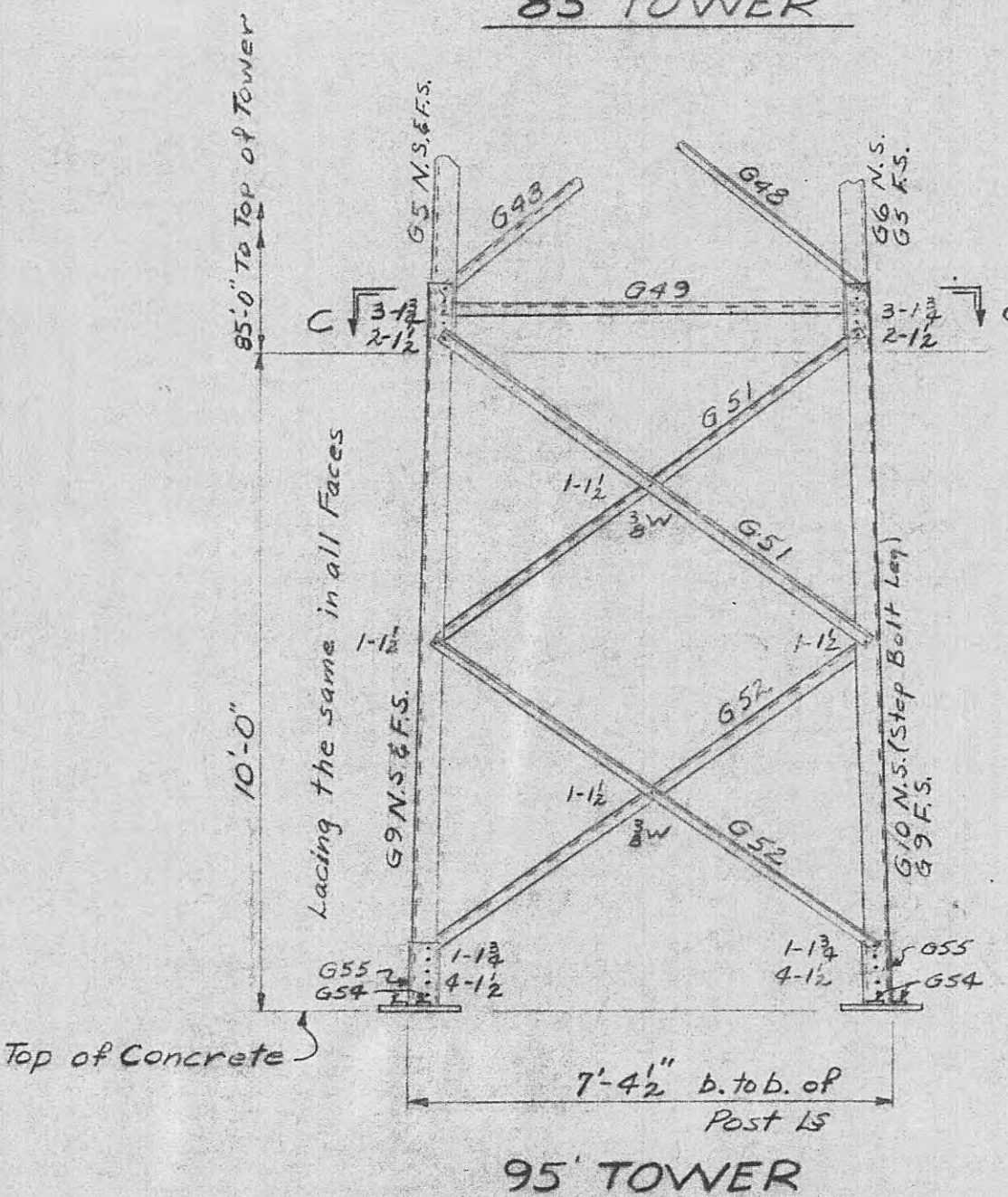
65' TOWER



75' TOWER



85' TOWER



95' TOWER

DESIGN CONDITIONS
Towers are designed for 5,000# pull plus 1.75 overload in any direction.

NOTES:
Holes 1/4" unless noted.
All material to be hot dip galvanized after fabrication.
Piece marks to be die stamped before galvanizing.

SPECIFICATIONS:
Material A.S.T.M.-A36
Galvanizing A.S.T.M.-A123
Bolts A.S.T.M.-A394

REFERENCES:
Foundation Details
55' Tower...MC-48705
65' Tower...MC-48706
75' Tower...MC-48707
85' Tower...MC-48708
95' Tower...MC-48709

BILL OF MATERIAL									
NO. REQUIRED	TOWER 55'	TOWER 65'	TOWER 75'	TOWER 85'	TOWER 95'	MARK	DESCRIPTION	LENGTH FT.	WT. IN. EACH
3	3	3	3	3	3	G1	L3 1/2 x 3 1/2 x 1/4	25	64 153
1	1	1	1	1	1	G2	Do.	25	64 153
3	3	3	3	3	3	G3	L4 x 4 x 1/4	29	114 254
1	1	1	1	1	1	G4	Do.	29	114 254
				3	3	G5	L4 x 4 x 3/8	30	104 313
				1	1	G6	Do.	30	104 313
3						G7	Do.	10	104 110
1						G8	Do.	10	104 110
				3	3	G9	Do.	10	104 110
				1	1	G10	Do.	10	104 110
						G11	Do.	20	104 211
						G12	Do.	20	104 211
4	4	4	4	4	4	G13	L3 1/2 x 3 1/2 x 1/4	2	2 12
1	1	1	1	1	1	G14	R 30 x 1/2	2	6 66
4	4	4	4	4	4	G15	L1 1/2 x 1 1/4 x 1/4	2	2 4
4	4	4	4	4	4	G16	Do.	2	74 5
4	4	4	4	4	4	G17	Do.	2	8 5
4	4	4	4	4	4	G18	Do.	2	9 5
4	4	4	4	4	4	G19	Do.	2	10 5
4	4	4	4	4	4	G20	Do.	3	16 6
4	4	4	4	4	4	G21	Do.	3	16 6
4	4	4	4	4	4	G22	Do.	3	16 7
4	4	4	4	4	4	G23	Do.	3	16 7
4	4	4	4	4	4	G24	Do.	3	16 7
4	4	4	4	4	4	G25	Do.	3	16 7
4	4	4	4	4	4	G26	Do.	3	16 7
4	4	4	4	4	4	G27	L2 x 2 x 1/4	3	24 8
2	2	2	2	2	2	G28	L1 1/2 x 1 1/4 x 3/8	4	26 3
4	4	4	4	4	4	G29	L1 1/2 x 1 1/4 x 3/8	4	26 9
4	4	4	4	4	4	G30	Do.	4	26 9
4	4	4	4	4	4	G31	Do.	4	26 9
4	4	4	4	4	4	G32	Do.	4	26 10
4	4	4	4	4	4	G33	Do.	4	26 10
4	4	4	4	4	4	G34	Do.	4	26 10
4	4	4	4	4	4	G35	Do.	4	26 10
4	4	4	4	4	4	G36	Do.	4	26 11
4	4	4	4	4	4	G37	Do.	5	26 11
4	4	4	4	4	4	G38	Do.	5	26 11
4	4	4	4	4	4	G39	Do.	5	26 12
4	4	4	4	4	4	G40	Do.	5	26 12
4	4	4	4	4	4	G41	L2 x 2 x 1/4	4	26 12
2	2	2	2	2	2	G42	L1 1/2 x 1 1/4 x 3/8	6	53 12
8	8	8	8	8	8	G43	L1 1/2 x 1 1/4 x 3/8	6	10 15
8	8	8	8	8	8	G44	Do.	7	1 16
						G45	Do.	7	6 16
						G46	Do.	7	8 17
						G47	Do.	7	11 17
						G48	Do.	8	1 18
						G49	L2 x 2 x 1/4	6	6 17
						G50	L1 1/2 x 1 1/4 x 3/8	8	11 20
						G51	Do.	8	2 18
						G52	Do.	8	5 19
8	8	8	8	8	8	G54	Washer 3" x 1/4"	0	3 1
4	4	4	4	4	4	G55	Welded Base 1-L5 x 5 x 1/2 1-R 15" x 1"	0	11 78
8	8	8	8	8	8	G56	Bent Anchor Bolt 1 1/2" 3-Heavy Hex Nuts	5	0 42
40	47	55	62	69			Step Bolt 3/4" x 4" x 1/2"	0	7 10
	9	18	27	35			Washer 1 1/2" x 1/2" x 1/4"	0	1
45	51	51	51	56			3/4" Bolt	14	0
146	189	216	242	277			Do.	12	0
13	31	31	31	57			Do.	14	0
Total Wt. 3368	Total Wt. 4108	Total Wt. 4793	Total Wt. 5497	Total Wt. 6370					

Return to Engineering
Flat File Drawer 7

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER PLANNING AND ENGINEERING
SUBSTATIONS GENERAL
GROUND WIRE TOWERS
ERECTION DIAGRAMS

REV. NO. DATE WORK ORDER DESGN. DRWN. CHKD. SUPV. APPD.

DATE 3-18-68 SUBMITTED 3-18-68 APPROVED 3-18-68 SHEET 1 OF 2 SHEET

DRGN. H.H.H. SUPV. W.O. PROJ. ENGR. WGI

CHKD. R.H.H. SCALE N.T.S. CLASS. CODE 8316

LC-48704-R

