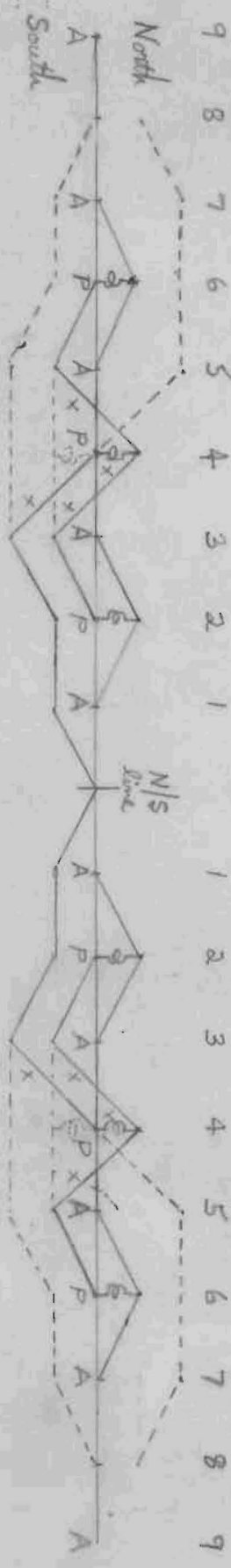
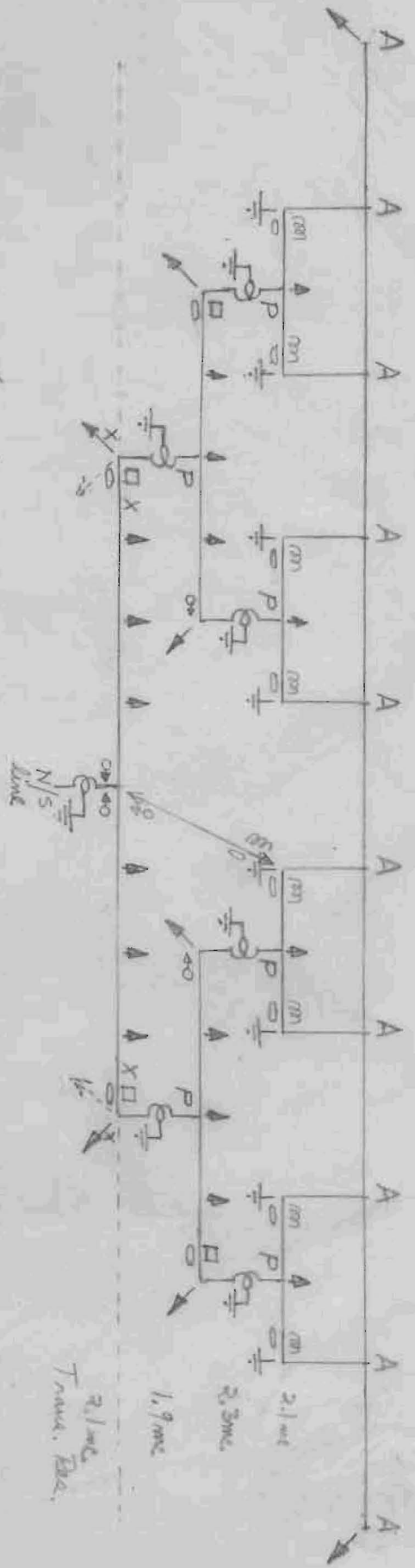


Detail of East/West Lines #1, #2, #3

7 May 61



- 10 Pella A
- 6 Pata P
- 8 Anchora X
- 15 Ground rods ⊥
- 7 Transformer 300/600 ohms ⊥
- 9 Pairs spurs and eyes m
- 13 Pairs strain insulators ⊖
- 16 Pairs bell insulators ⊕ pairs ↑
- 25 Pairs line spurs (one pair on each 220 ft span)

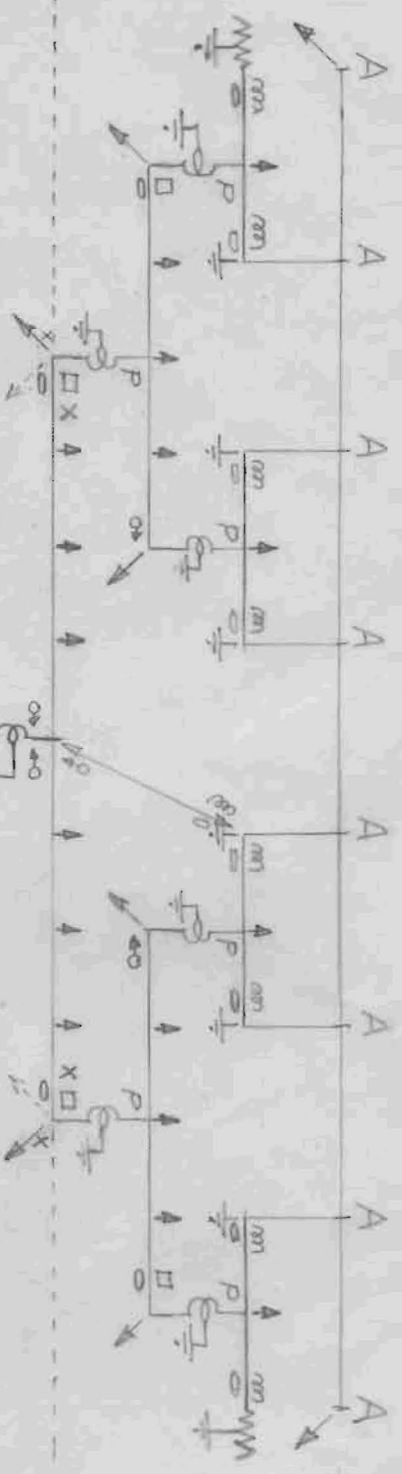
Future Construction
 X Future neutral
 4 counterweight assemblies □
 5 Pairs surge insulators ⊕

Cross arms
 Positions 14 = Double offset
 Positions 2 = Triple balanced
 Positions 3 = Triple offset
 Positions 5 = Quadruple balanced
 Positions 6 + 7 = Quadruple offset
 Positions 1 = Single for pair

25 spurs 220 ft = 5500 ft wire
 8 outtimes 440 + 120 = 8 x 560 = 4480 ft wire
 2 end block outtimes @ 220 = 440 ft wire
 18 line terminations = 15920 ft wire

Detail of East/West Line #4, #5, #6

8 May 61



- 8 Pole A
- 6 Pota P
- 8 Anchor
- 15 Ground rods
- 7 Transposers 300/600 ohms
- 9 Pairs 5 pairs on each angle
- 13 Pairs strain insulators
- 16 Pairs bell insulators
- 25 Pairs line apparatus (one pair on each 220 ft span)

- Future Construction
- X Future towers
- 2 Transposers counterpoise 600 & 220 MM
- 4 Counterweight assemblies
- 5 Pairs angle insulators

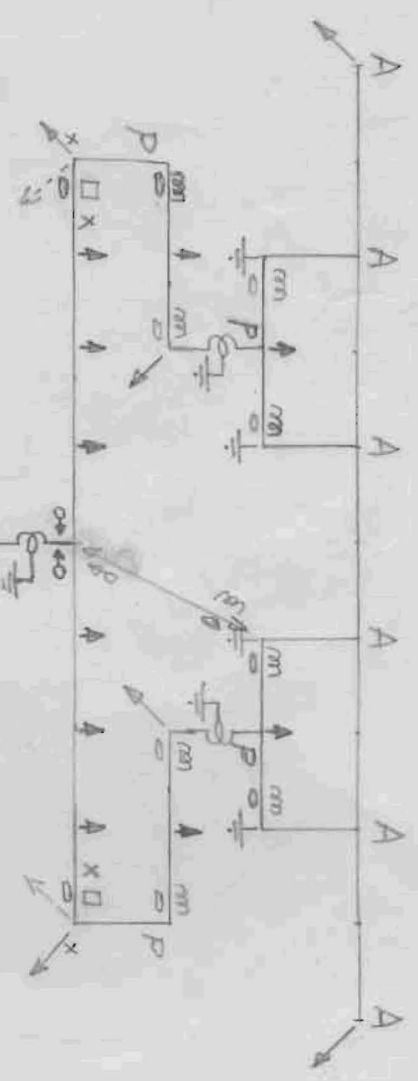
Crossarms

Position 1+4 = Double offset
 Position 2 = Triple balanced
 Position 3 = Triple offset
 Position 5 = Quadruple balanced
 Position 6+7 = Quadruple offset
 Position 1 = Single for pair

25 spans 220 ft = 5500 ft line = 11000 ft wire
 6 outwires 440+120 = 6x560 = 3360 ft wire
 2 and 4 and outwires @ 220 = 440 ft wire
 14800 ft wire

Detail of East/West Lines #7

8 May 61



2.1
Trans. RLA.



----- Future Construction
X Future removals

2 circumferential assemblies □
3 Pairs auger insulators ○

Crossarms
Position 1 = Double offset
Position 2 = Triple balanced
Position 3 = Triple offset
Position 4 = Double balanced
Position 1 = Single for Fair

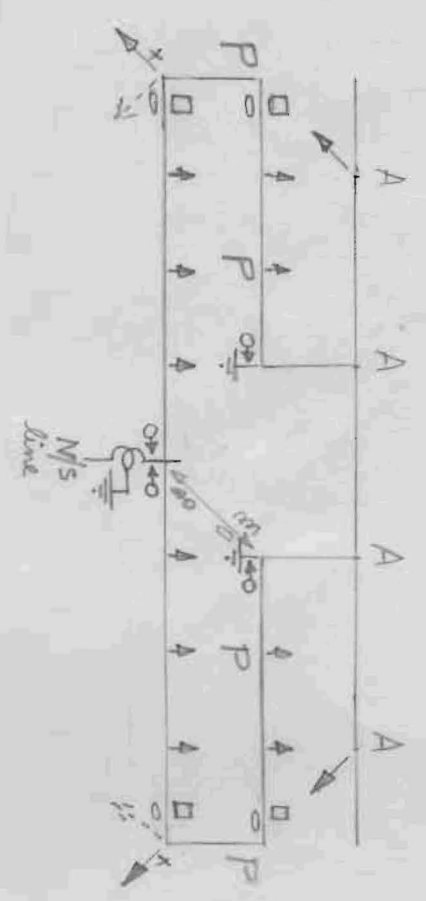
- 6 Poles A
- 4 Posts P
- 6 Anchors
- 7 Ground rods
- 3 Transformers 300/600 ohms
- 9 Pairs springs and eyes
- 11 Pairs strain insulators
- 10 Pairs bell insulators + pins
- 17 Pairs line spacers (one pair on each 220 ft span)

- 17 spans 220 ft = 3740 ft line = 7480 ft wire
- 4 Antennas 440+120 = 4x560 = 2240 ft wire
- 2 and black antennas @ 220 = 440 ft wire
- 14 line terminations

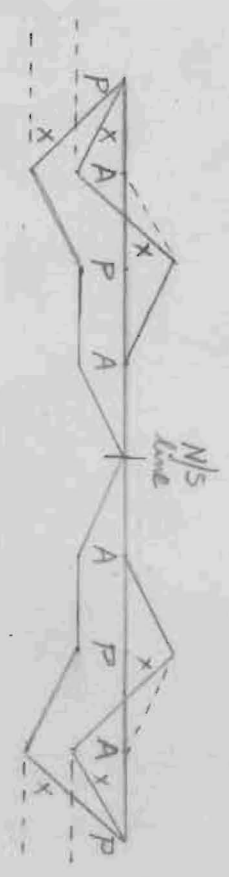
10160 ft wire

Detail of East/West Lines #8

8 May 61



4 3 2 1 1 2 3 4



- 4 Poles A
- 4 Posts P
- 4 Antennas
- 3 Ground rods
- 1 Transformer 300/600 ohms
- 1 Pair springs and eyes (30)
- 5 Pairs strain insulators
- 10 Pairs bell insulators + pins
- 15 Pairs line insulators (one pair on each 220 ft span)

- Future Construction
- X Future remains
- 4 counterweight assemblies
- 5 pairs larger insulators

Crossarms

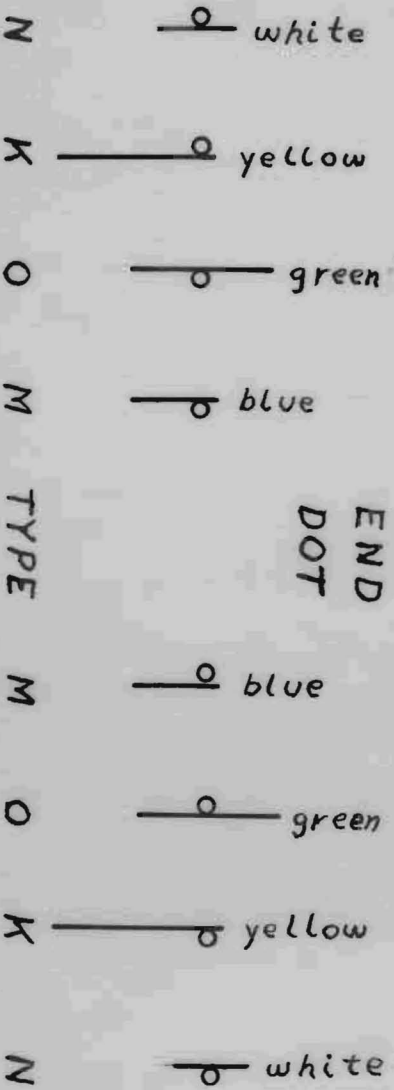
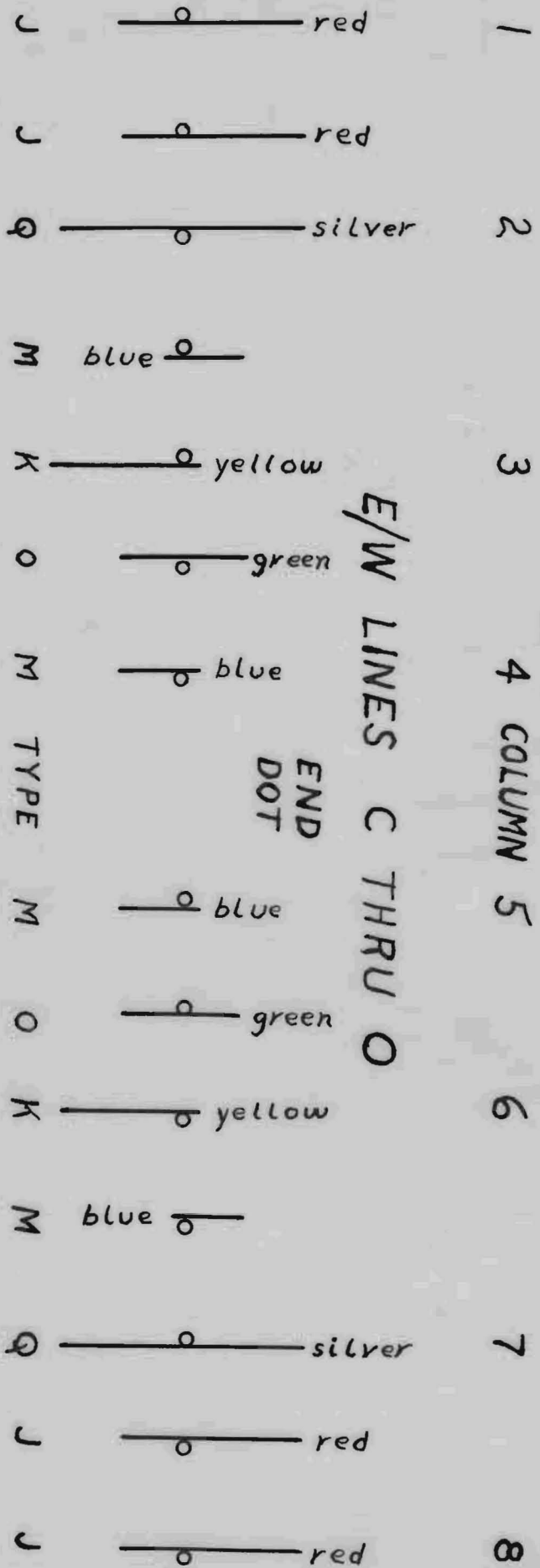
Position 1 =	Double offset
Position 2 =	Triple balance
Position 3 =	Triple balance
Position 4 =	Double balance
Position 1 =	Single for four

15 spans 220 ft = 3300 ft line = 6600 ft wire
 2 antennas 440 + 120 = 2 x 560 = 1120 ft wire
 2 oval blank antennas @ 220 = 440 ft wire
 8160 ft wire

10 line terminations

CROSSARM LAYOUT

3 4 COLUMN 5 6



Crossarms for E/W lines

25/7/61

	Crossarms	Wood Brackets	Metal Brackets	$\frac{1}{2} \times 5$ Sp. Pl. Sp.	$\frac{1}{2} \times 4$ Circle Screws	$\frac{1}{2}$ Washers	$\frac{1}{4} \times 2$ Circle Screws	$\frac{1}{4}$ Washers
Quadruple Offset J								
Lines 1, 2, 3 = Positions 6, 7 = 6×4	24							
" 4, 5, 6 = " 6, 7 = 6×4	24	48		48	48	144		
Spares	2							
Total	50							
Triple Offset - K								
Lines 1, 2, 3 = Positions 3, = 6×2	12							
" 4, 5, 6 = " 3, = 6×2	12							
" 7 = " 3, = 2×2	4	32		32	32	96		
" 8 = " 3, = 2×2	$\frac{4}{2}$							
Spares	2							
Total	34							
Triple Balanced - O								
Lines 1, 2, 3 = Positions 2, = 6×2	12							
" 4, 5, 6 = " 2, = 6×2	12							
" 7 = " 2, = 2×2	4		64				96	
" 8 = " 2, = 2×2	4							
Spares	2							
Total	34							
Double Offset - M								
Lines 1, 2, 3 = Positions 1, 4 = 6×4	24							
" 4, 5, 6 = " 1, 4 = 6×4	24							
" 7 = " 1 = 2×2	4		56				112	
" 8 = " 1 = 2×2	4							
Spares	4							
Total	60							
Double Balanced - N								
Lines 7 = Positions 4 = 2×2	4		16				24	16
" 8 = " 4 = 2×2	4							
Spares	2							
Total	10							

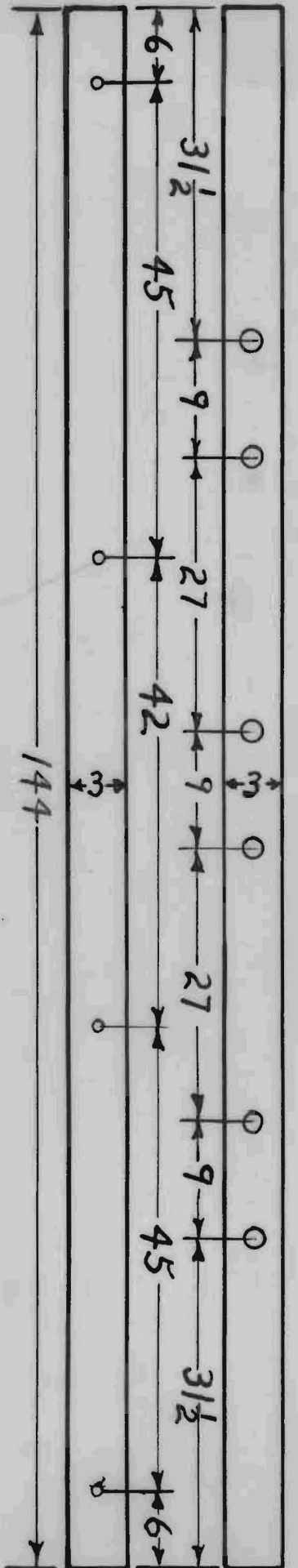
	Crossarms	Wood Brace	Metal Brace	$\frac{1}{2} \times 5$ Sq. Rd. Sg.	$\frac{1}{2} \times 4$ Coack Screws	$\frac{1}{2}$ Washers	$\frac{1}{4} \times 2$ Coack Screws	$\frac{1}{4}$ Washers
Single - L								
Bottom of Fixed downleads	48			48		96		
Center E/W lines 2x16	32							
Ends of lines for Fan Spars 2x16	32							
	8							
Total	120							
Spars		7	8					
Totals including part G below.		135	144	176	80	456	232	16

(P)
Wood Brace attaches 42" from center of pole or post
Center hole spacing = $42 / \sin 45^\circ = 59\frac{1}{2}$ "

Metal Brace attaches $15\frac{1}{2}$ " from center of pole or post
Center hole spacing = $15\frac{1}{2} / \sin 45^\circ = 22$ "

Quadruple Balanced G				$\frac{1}{2} \times 5$ Coack	
Lines 1, 2, 3 = Positions 5 = 6x2	12				
" 4, 5, 6 = " 5 = 6x2	12	48	48	24	120
Spars	3				
Total	27				

30-A



15-B



15-C

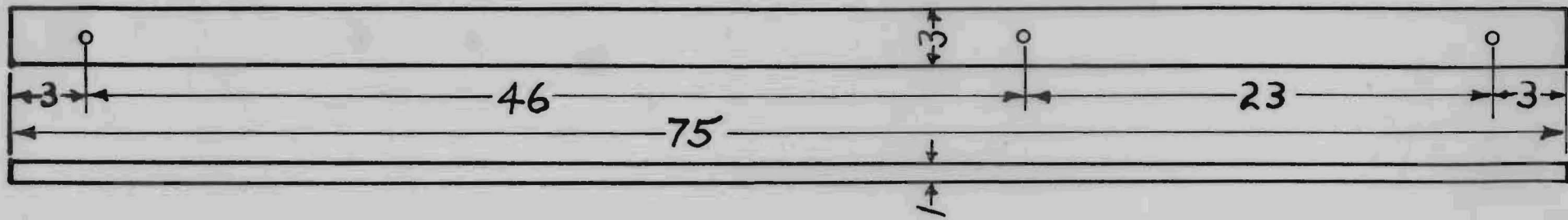


O = 1" DIA.

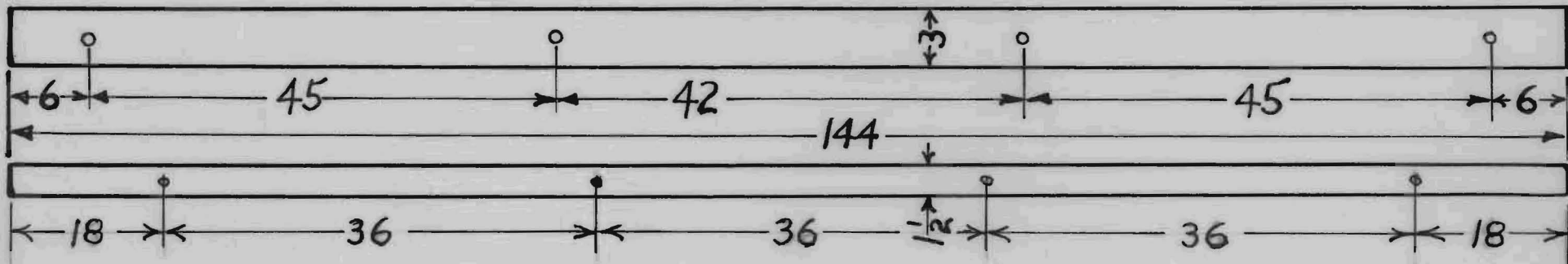
o = 1/2" DIA.

X = 3/16" DIA, 2" DEEP

72-D



6-E



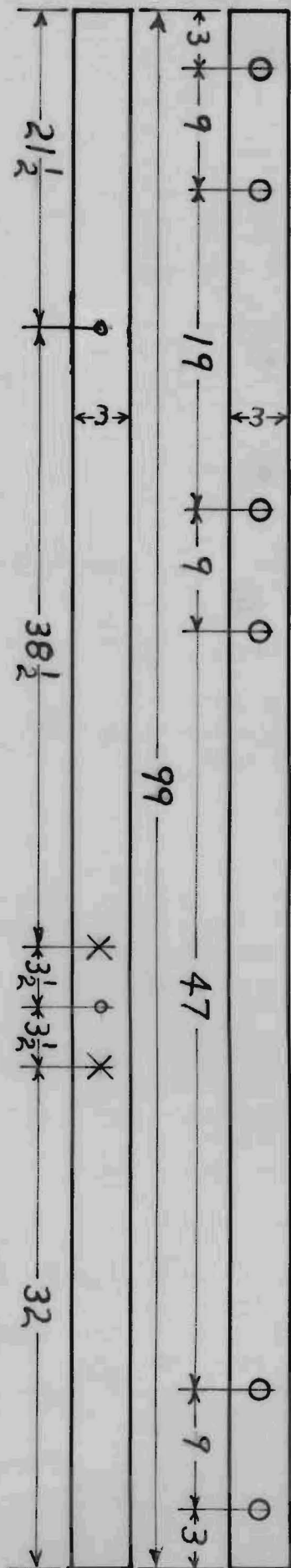
6-F LIKE E, CHANGE: 45 TO 30, 42 TO 72

2-G LIKE A, CHANGE: 144 TO 192, $3\frac{1}{2}$ TO $55\frac{1}{2}$, 45 TO 69

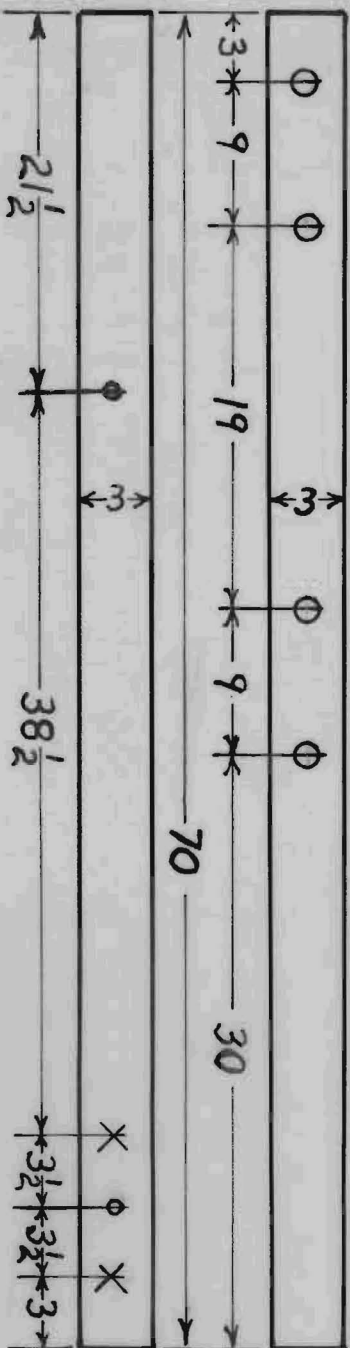
2-H LIKE C, CHANGE: 144 TO 192, $49\frac{1}{2}$ TO $73\frac{1}{2}$, $13\frac{1}{2}$ TO $37\frac{1}{2}$,
 $8\frac{1}{2}$ TO $32\frac{1}{2}$, 30 TO 54

2-I LIKE D, CHANGE: 75 TO 112, 46 TO 83 ACCURACY $\pm\frac{1}{16}$ "

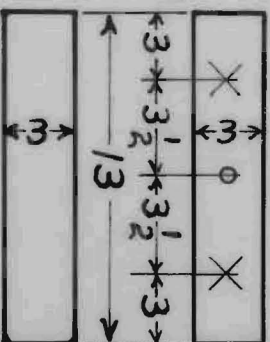
50-J



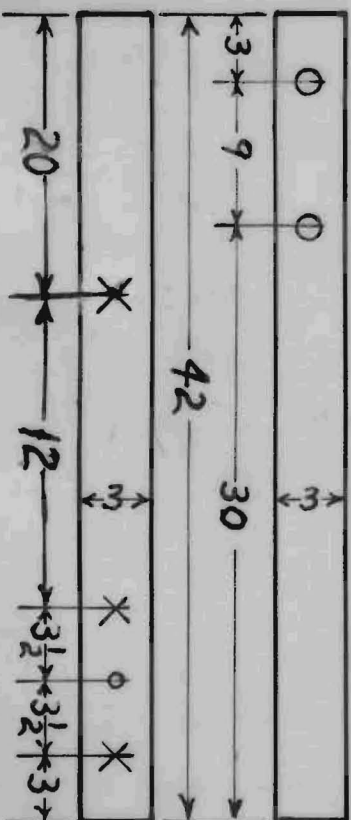
30-K



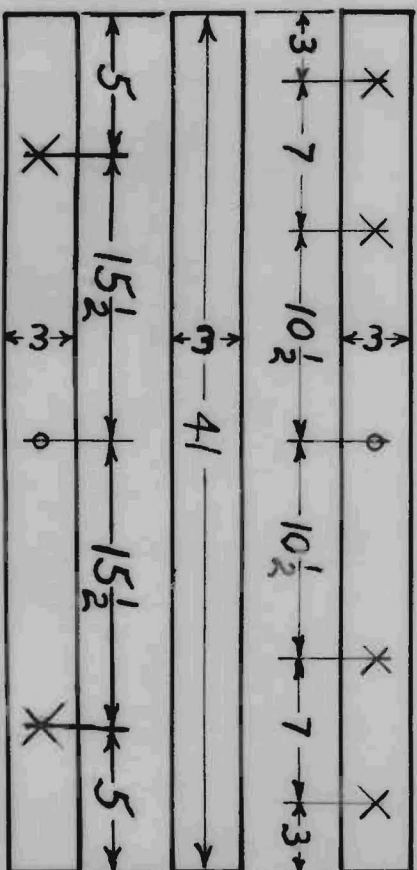
100-L



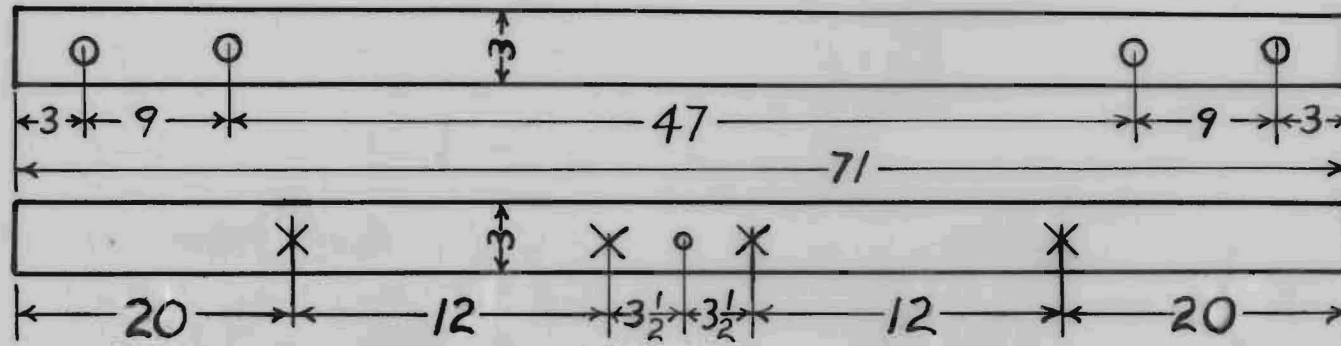
60-M



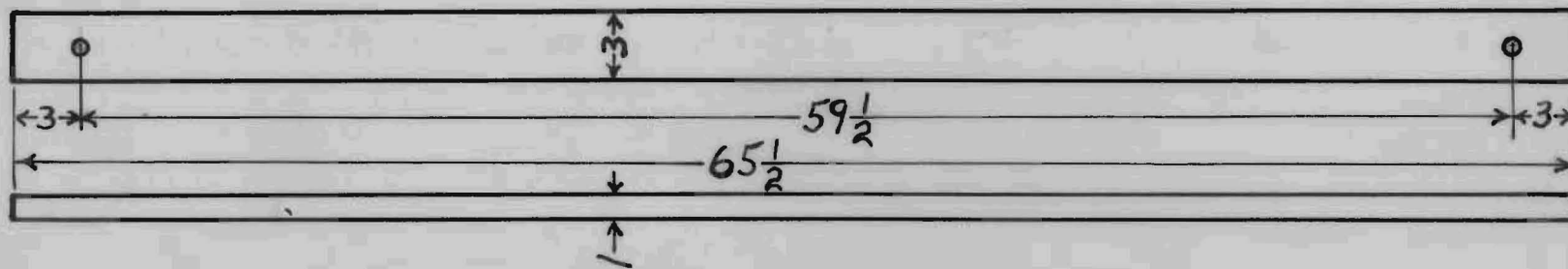
10-N



Crossarm O



Brace P



Q LIKE J, CHANGE: 32 TO 60, 47 TO 75, 99 TO 127
 ADD $\frac{1}{2}$ " HOLE 21 $\frac{1}{2}$ " FROM OTHER END

○ = 1" DIA. ○ = $\frac{1}{2}$ " DIA. X = $\frac{3}{16}$ " DIA., 2" DEEP ACCURACY $\pm \frac{1}{16}$ "