12 METER MILLIMETER WAVE TELESCOPE
MEMO No. 190

SEPT. 2, 1982.

TO: 12M WORKING GROUP

FROM: L. J. KING

SUBJECT: RECEIVER MOUNTING STRUCTURES

GIVEN IN THIS MEMO. ARE INFORMATIONS TELECOPIED TO TUCSON ON 8/31/82 - 9/1/82 FOR THE CONSTRUCTION OF THE RECEIVER MOUNTING STRUCTURES.

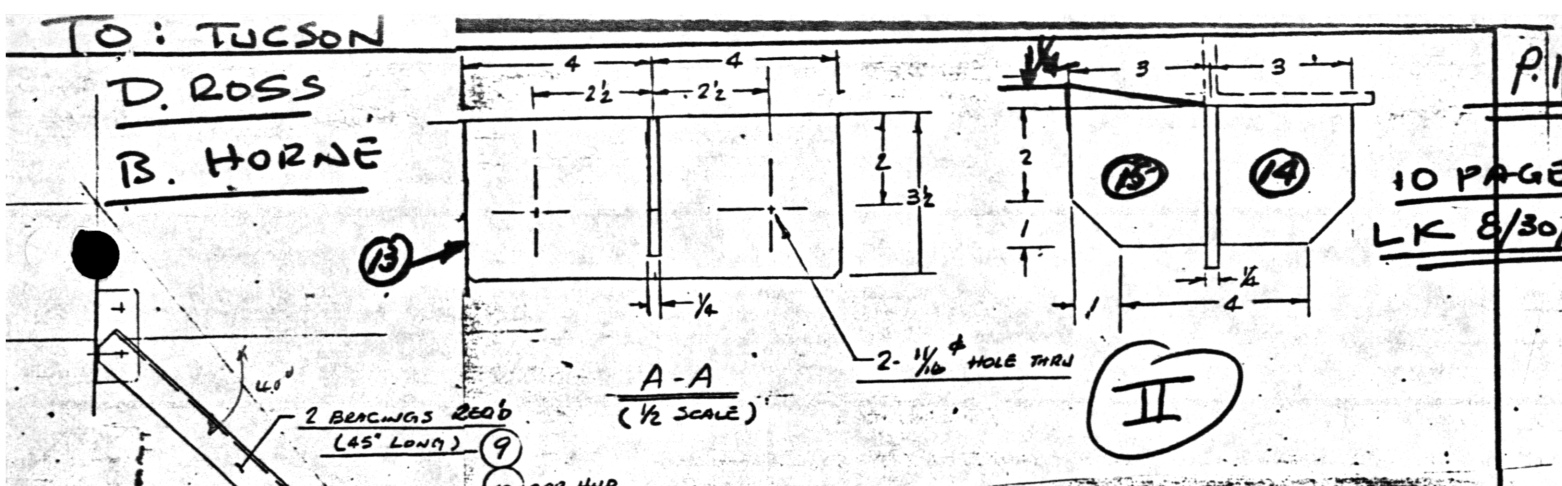
THEY ARE:

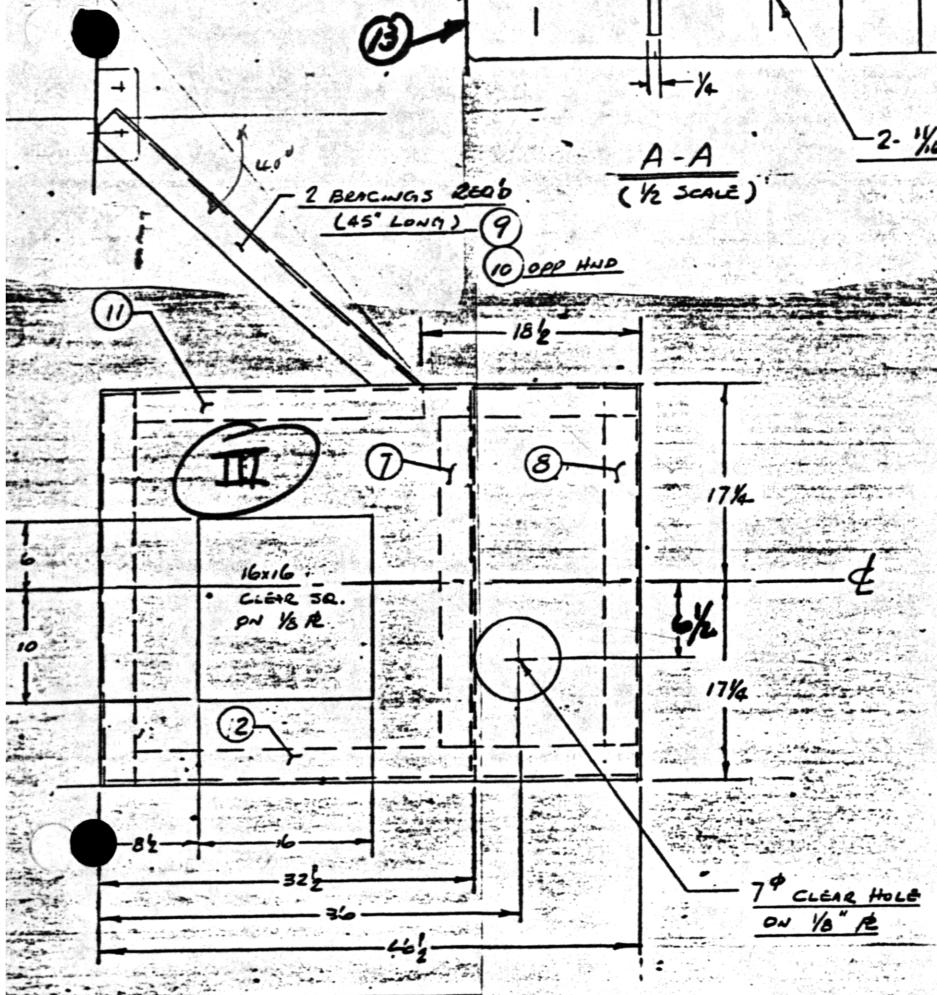
(P.1 --- P.7)	DRAWINGS FOR RECEIVER LOCATIONS 1 & 2.
(P.8 -- P.10)	CALCOMP PLOTS OF THE RECEIVER MOUNTING STRUCTURES W.R.T. THE HUB STRUCTURE.
(P.11 - P.14)	DRAWINGS OF THE CONNECTION DESIGNS TO BE WELDED TO THE HUB STRUCTURE FOR RECEIVER LOCATIONS 3 & 4.
(P.15))	SUMMARY OF THE WELDING LOCATIONS FOR ALL 4 RECEIVER MOUNTING STRUCTURES.

TO: TUCSON
D. ROSS
B. HORNE

P. 1

10 PAGES
LK 8/30/82





MTL LIST FOR ONE ASSY

MEM. NO.	QTY	DESCRIPTION	LENGTH (INCHES)
1	1	⅛" PL	46½ x 37½
2	1	L 3x3x¼	43 7/8
3	1	"	43 7/8
4	1	"	55 5/8
5	1	"	55 5/8
6	1	"	34
7	1	"	34
8	1	"	34
9	1	"	45
10	1	"	45
11	1	"	46½
12	1	"	46½
13	1	¼" PL	8 x 3½
14	1	¼" PL	3 x 2 7/8
15	1	¼ PL	3¼ x 2 7/8
	12	⅝ BOLT-NUT-WASHER SET	

NOTE
1. ALL MTLS TO BE A-36 STEEL
2
2 BOLTED CONNECTIONS TO BE PINNED OR WELDED TO PREVENT SLIPPING
3. BALANCE CONNECTIONS TO BE WELDED W/ 100% STRENGTH.

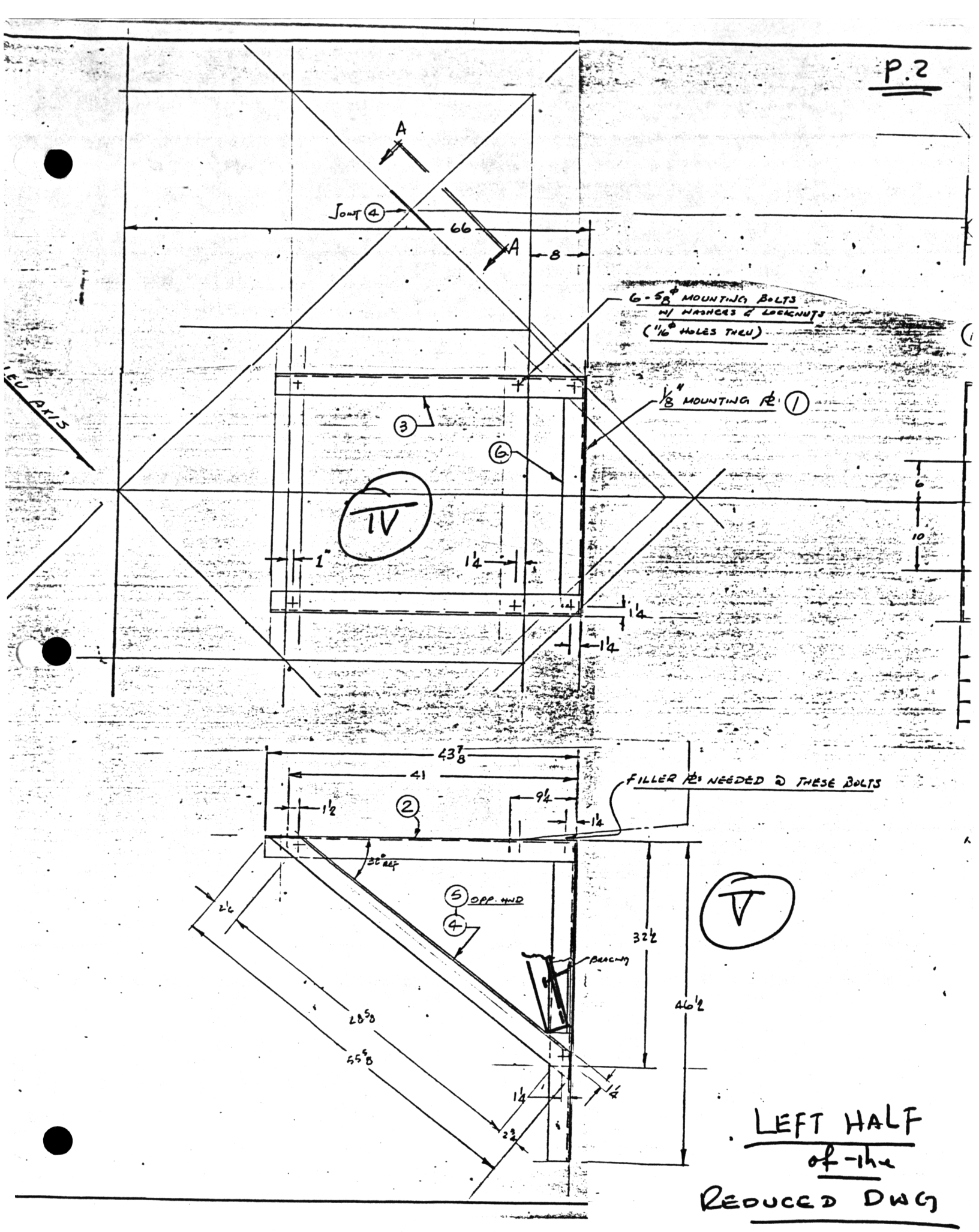
No	DATE	BY
REVISIONS		

NATIONAL RADIO ASTRONOMY OBSERVATORY
ASSOCIATED UNIVERSITIES INC.
GREEN BANK, W. VA.

TITLE: RECEIVER MOUNTING FRAME FOR LOCS. (1) & (2) OPP. HND.

	NAME	DATE		SIGNATURE	DATE
DESIGN	L K	8/30/82	RECOMMENDED BY		
DRAWN			ENGINEER		
CHK'D			APPROVED		

RIGHT HALF
of the
REDUCED DRAWING



LEFT HALF
of the
REDUCED DWG

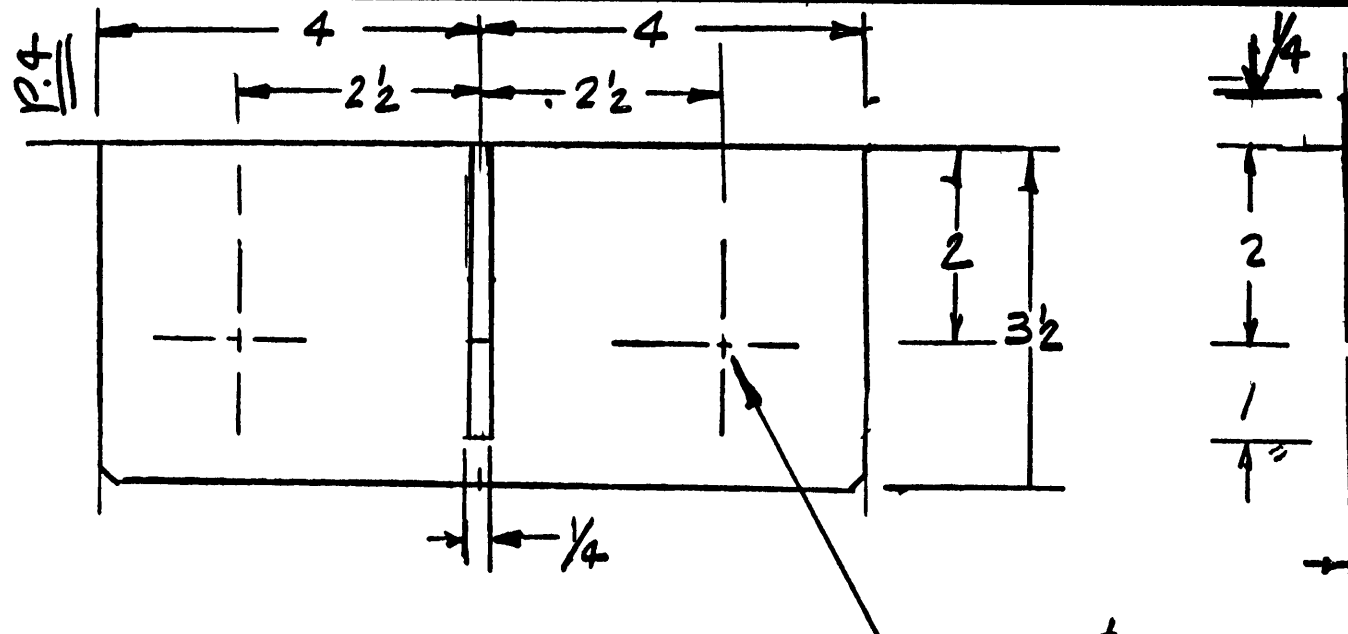
(I)

MTL LIST FOR ONE ASSY

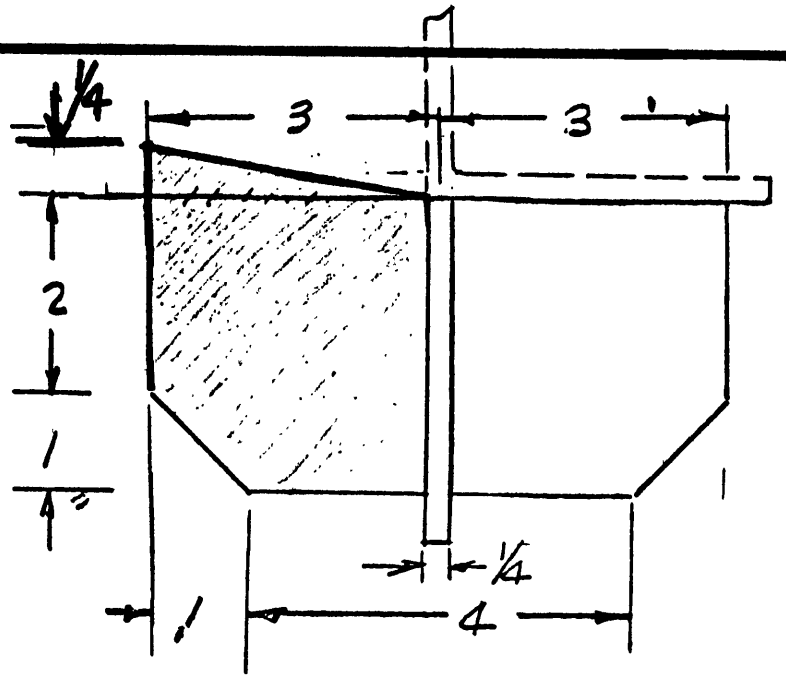
MEM. NO.	QTY	DESCRIPTION	LENGTH (INCHES)
1	1	1/8" PL	46 1/2 x 34 1/2
2	1	L3x3x1/4	43 7/8
3	1	"	43 7/8
4	1	"	55 7/8
5	1	"	55 5/8
6	1	"	34
7	1	"	34
8	1	"	34
9	1	"	45
10	1	"	45
11	1	"	46 1/2
12	1	"	46 1/2
13	1	1/4" PL	8 x 3 1/2
14	4	1/4" PL	3 x 2 7/8
	12	5/8 Φ BOLT-NUT-WASHER SET	
15	1	1/4 PL	3 1/4 x 2 7/8

—— ℄

, Φ CLEAR HOLE ON 1/8" PL

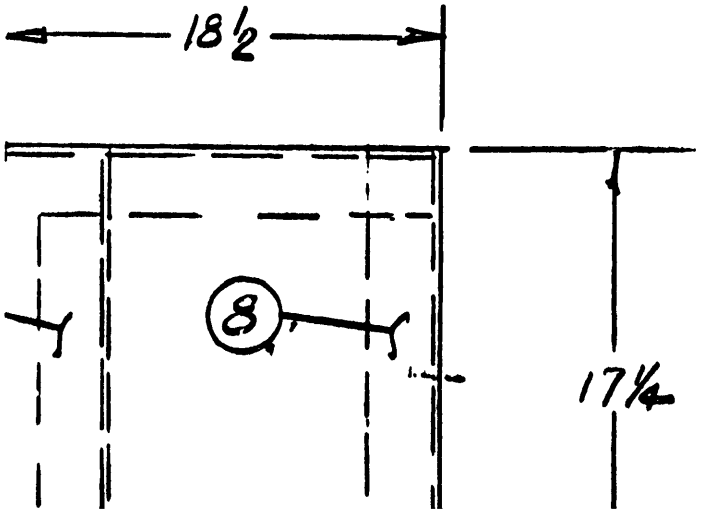


A - A
(½ SCALE)



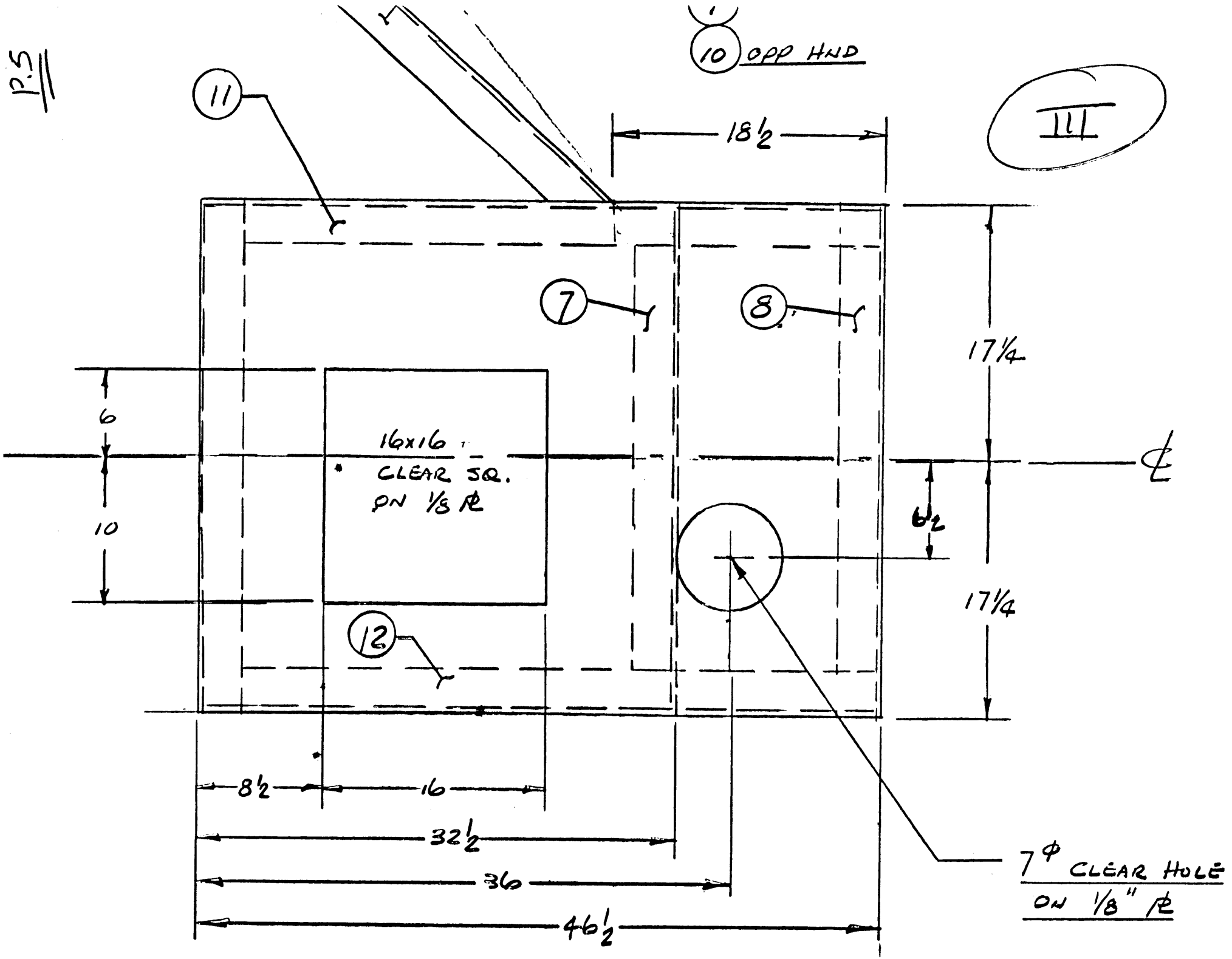
II

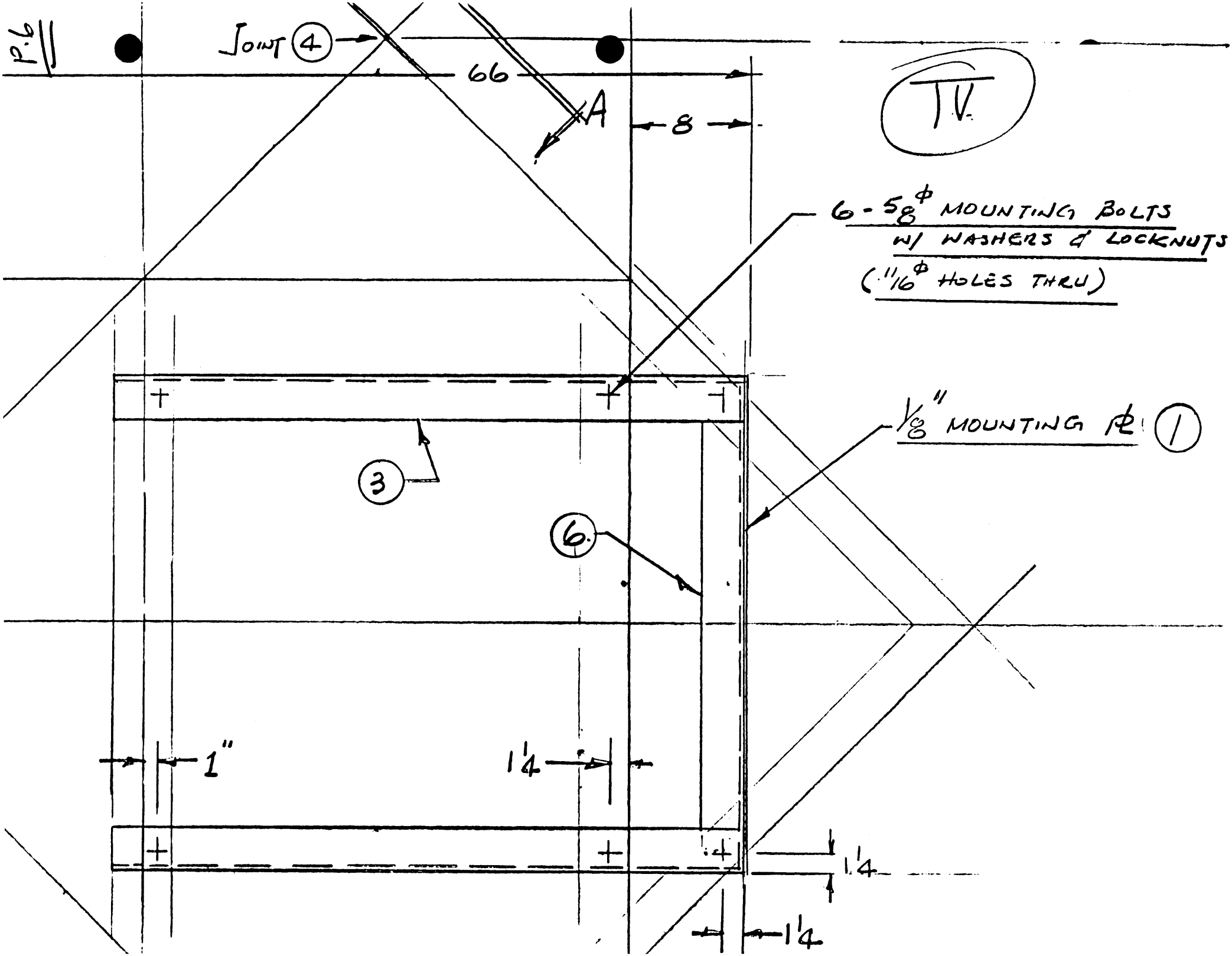
5 REQ'D
(9)
(10) OPP HND

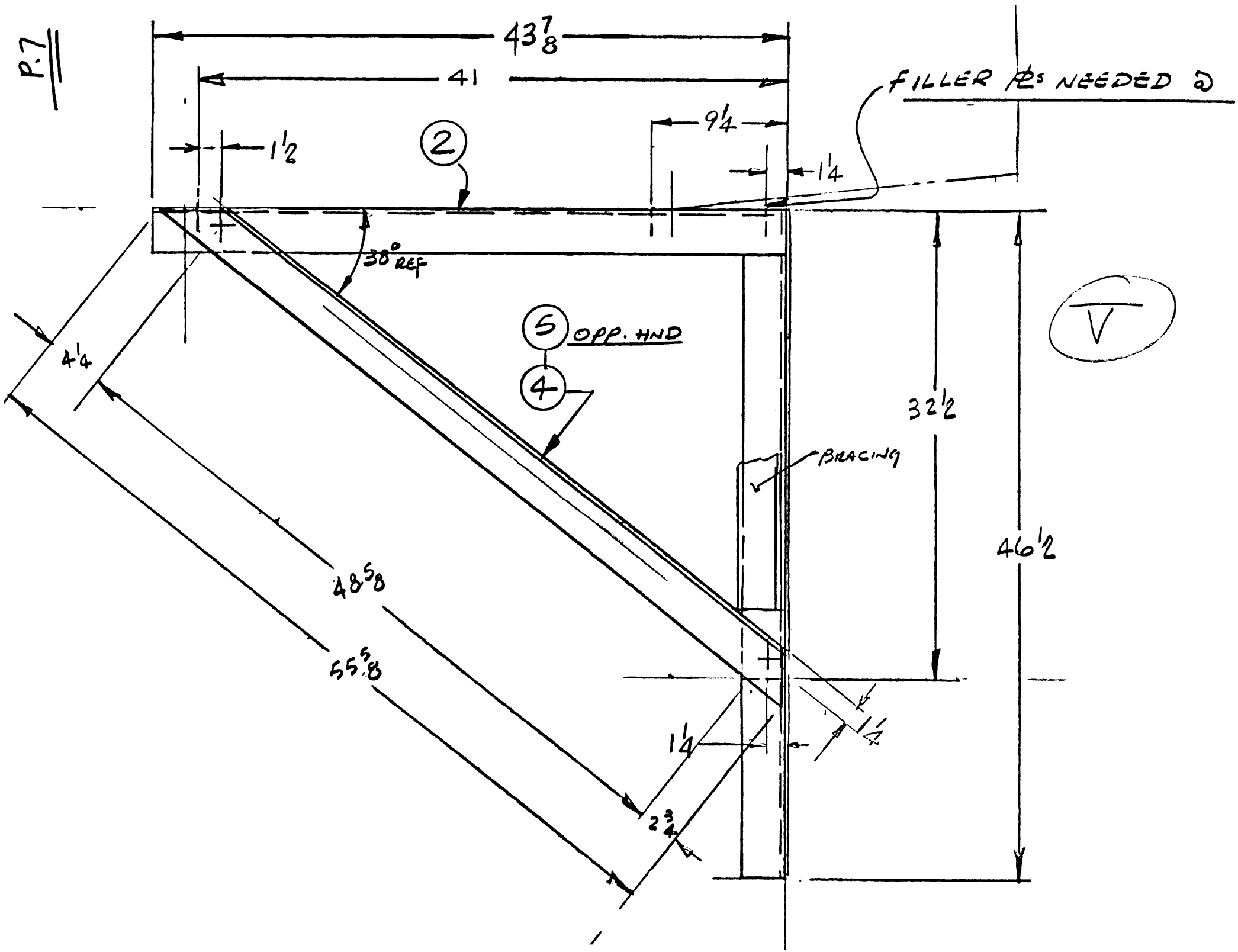


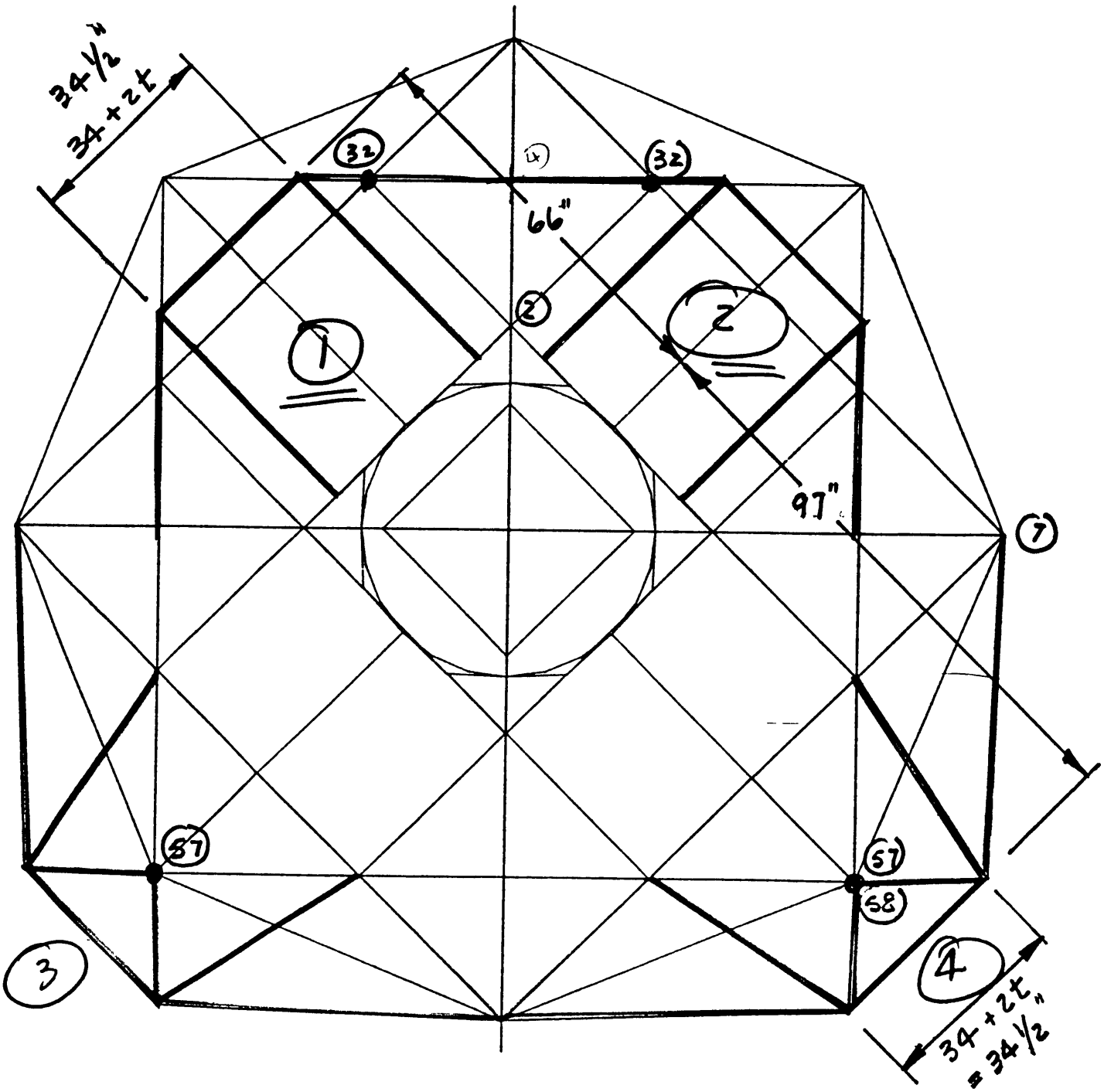
MTL LIST FOR ONE ASSY

MEM. NO.	QTY	DESCRIPTION	LE (IN
1	1	1/8" PL	46½
2	1	L3x3x¼	43 7/8


12.5
10 OPP HND
11
18½
III
7
8
17¼
6
10
16x16
CLEAR SQ.
ON ⅛ R
6½
17¼
12
8½
16
32½
36
46½
7Φ CLEAR HOLE
ON ⅛" R

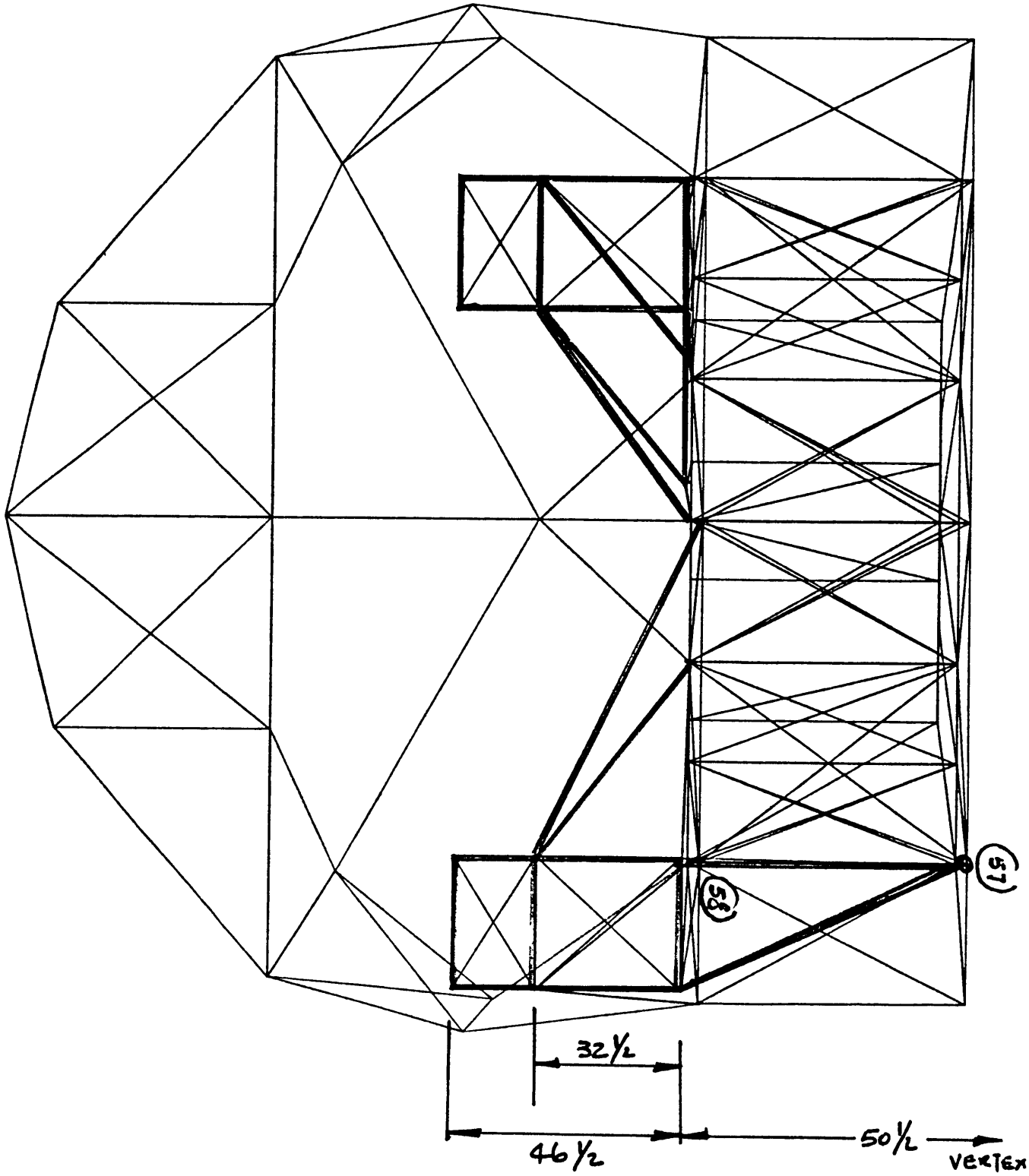

JOINT (4)
66
A
8
TV.
6 - 5/8 Φ MOUNTING BOLTS
W/ WASHERS & LOCKNUTS
(11/16 Φ HOLES THRU)
1/8" MOUNTING PL (1)
3
6
1"
1 1/4
1 1/4
1 1/4


P.7
43 7/8
41
FILLER AS NEEDED
9 1/4
1 1/2
2
1 1/4
38° REF
5 OPP. HND
4
4 1/4
48 5/8
55 5/8
32 1/2
BRACING
46 1/2
V
1 1/4
1 1/4
2 3/4

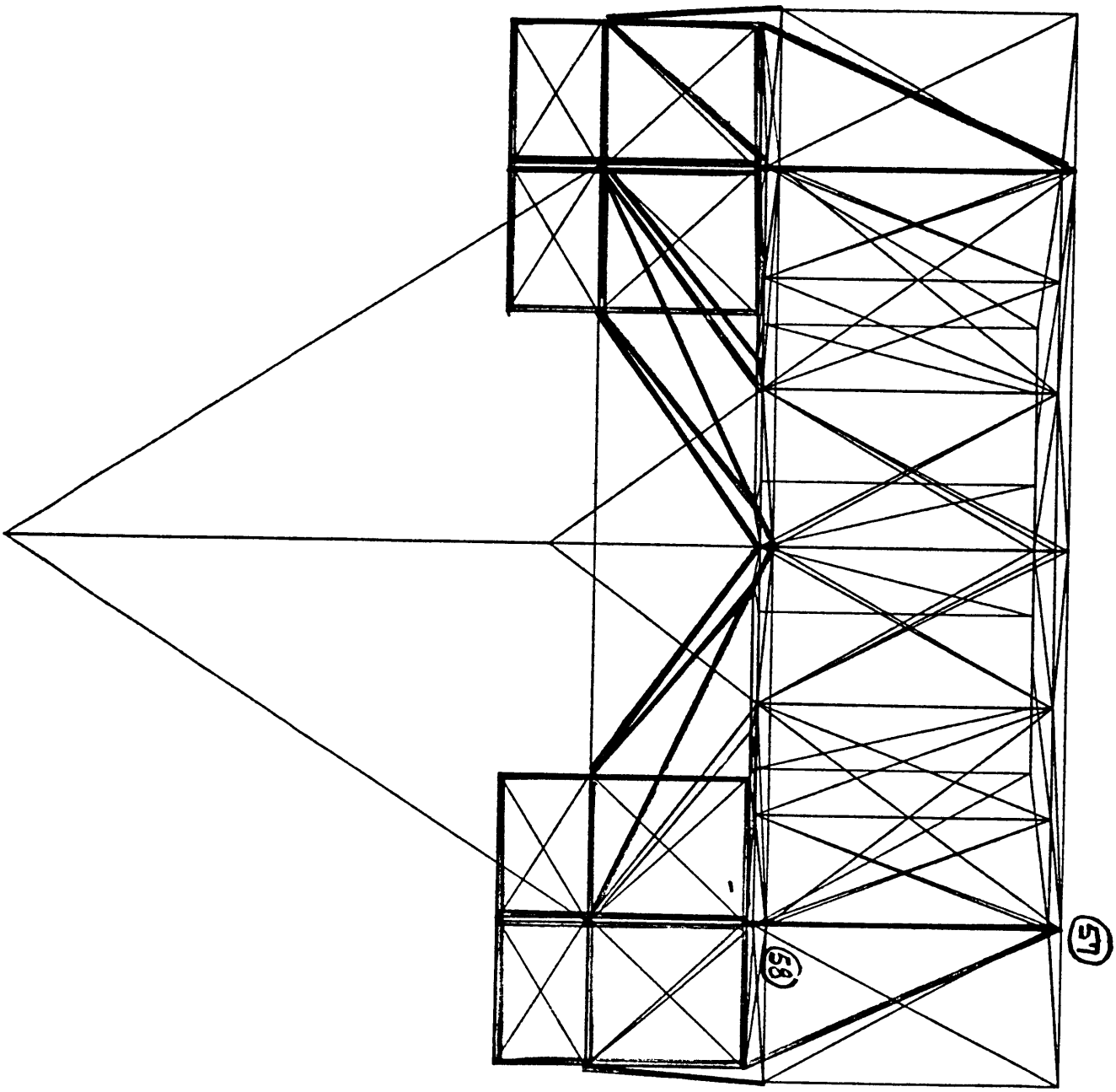


t = THICKNESS of 3×3 ANGLE
= ¼"

+ 12M HUB W/ RECEIVERS (00, 90)



+ 12M HUB W/ RECEIVERS (00.00)



+ 12M HUB W/ RECEIVERS (90.00)

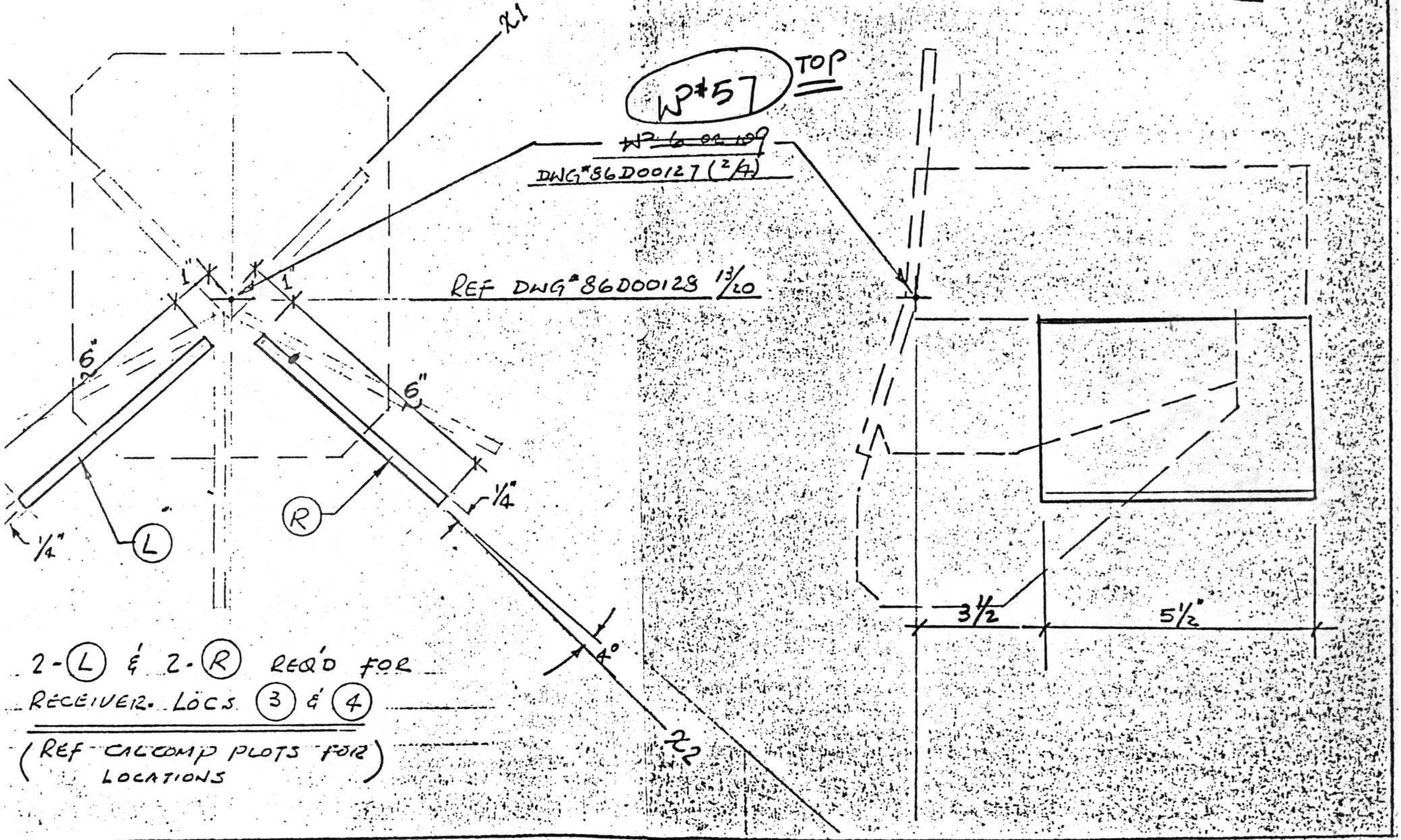
TO: TUCSON

(D. ROSS
B. HORNE) AT JOINT 58 FOR
LOCS 3 & 4

MTL LIST:
TOTAL 4 - 5½ × 6 × ¼ PLs

[REV. 9-1-82 LK
Dated (8-31-82)]

P.11



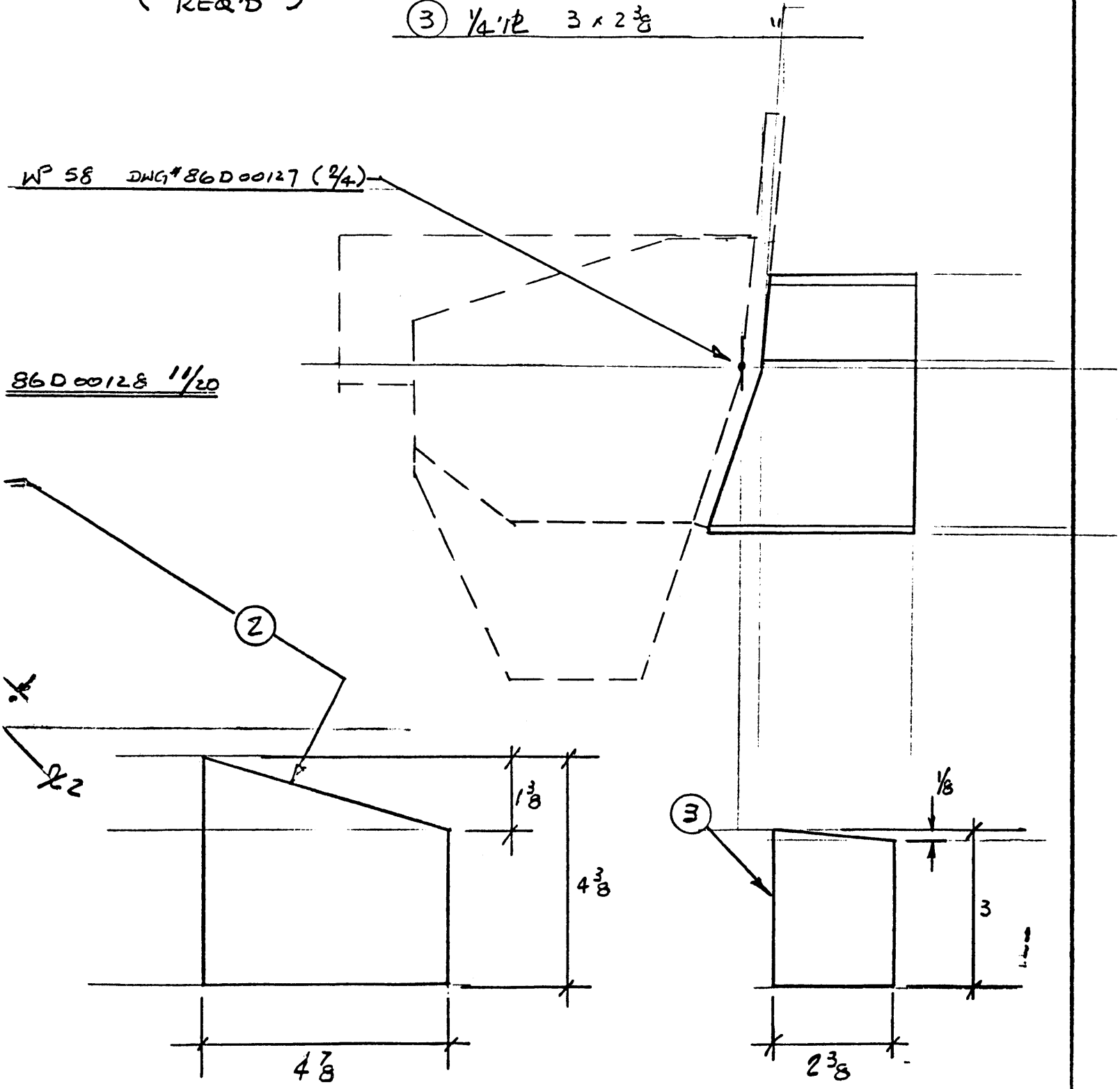
:27

MTL. LIST : (TWO SETS REQ'D)

(1)	1/4 PL	$4\frac{3}{8} \times 7\frac{1}{2}$	(A-36 STEEL)
(2)	1/4 PL	$4\frac{3}{8} \times 4\frac{7}{8}$	"
(3)	1/4 PL	$3 \times 2\frac{3}{8}$	"

WP 58 DWG # 86D00127 (2/4)

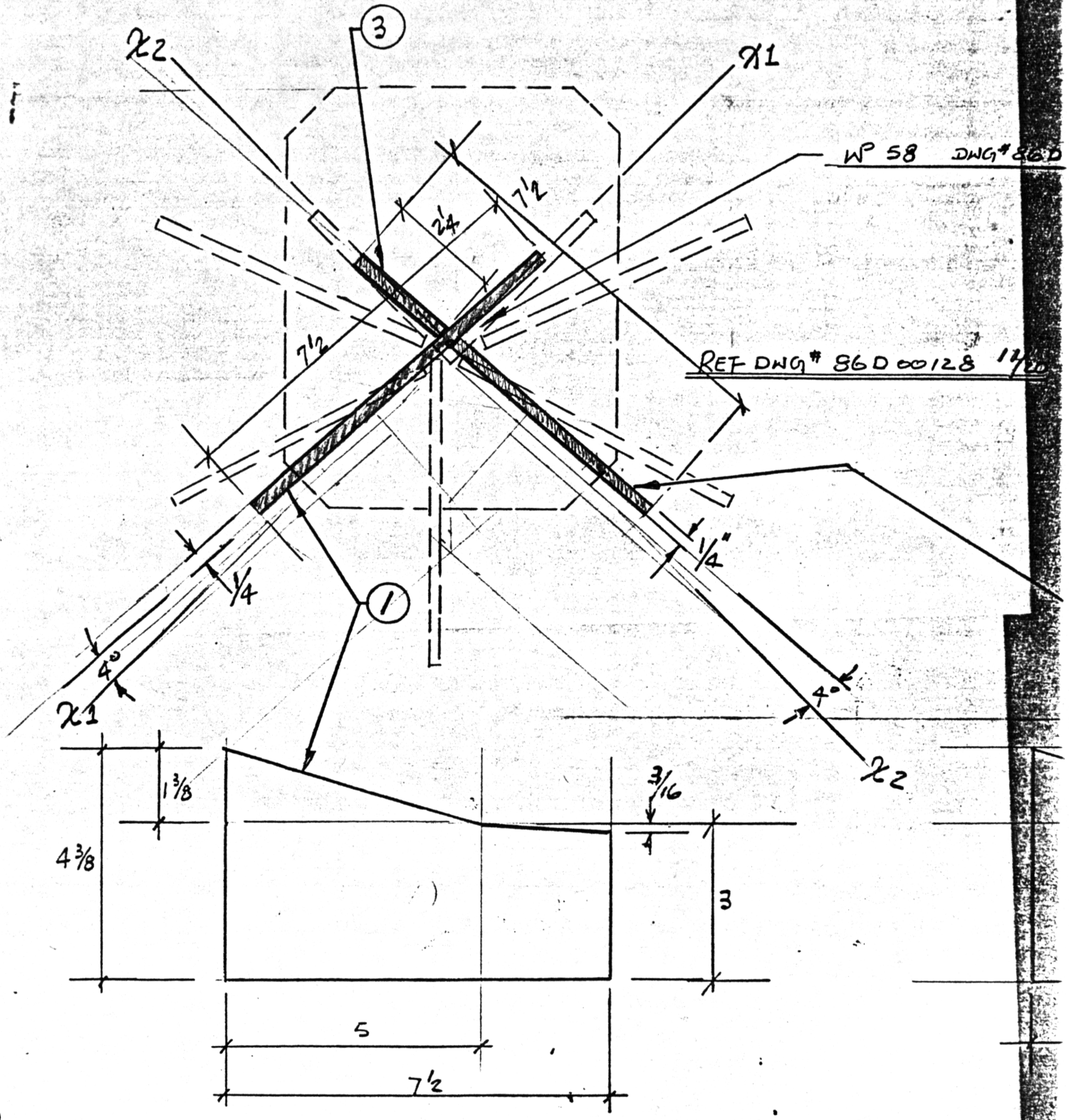
86D00128 11/20



P.12L

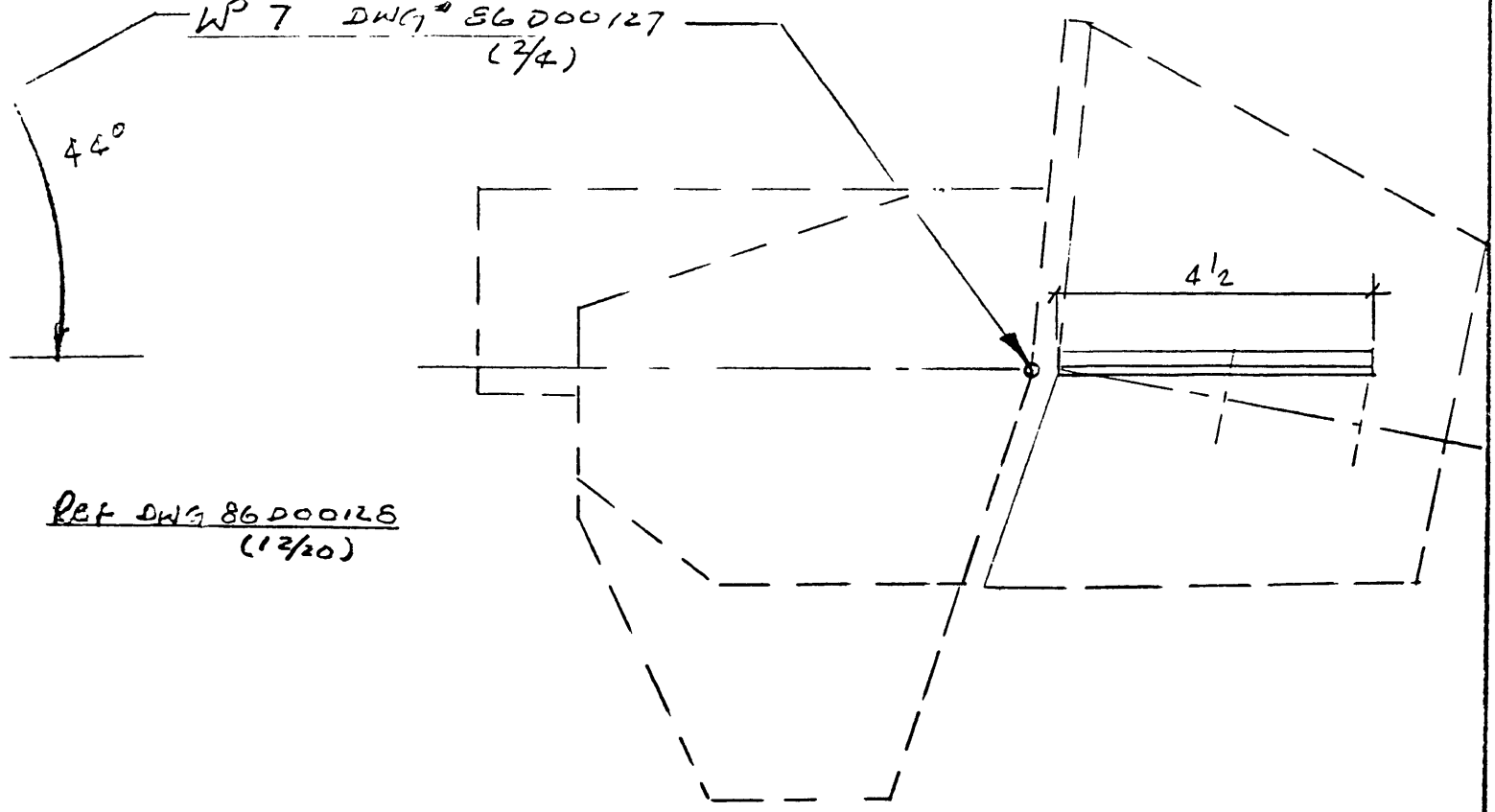
AT JOINT 58 FOR LOCS. 3 & 4 [9.1.82 LK]

MTL (TWO REQ



9-1-82
LK

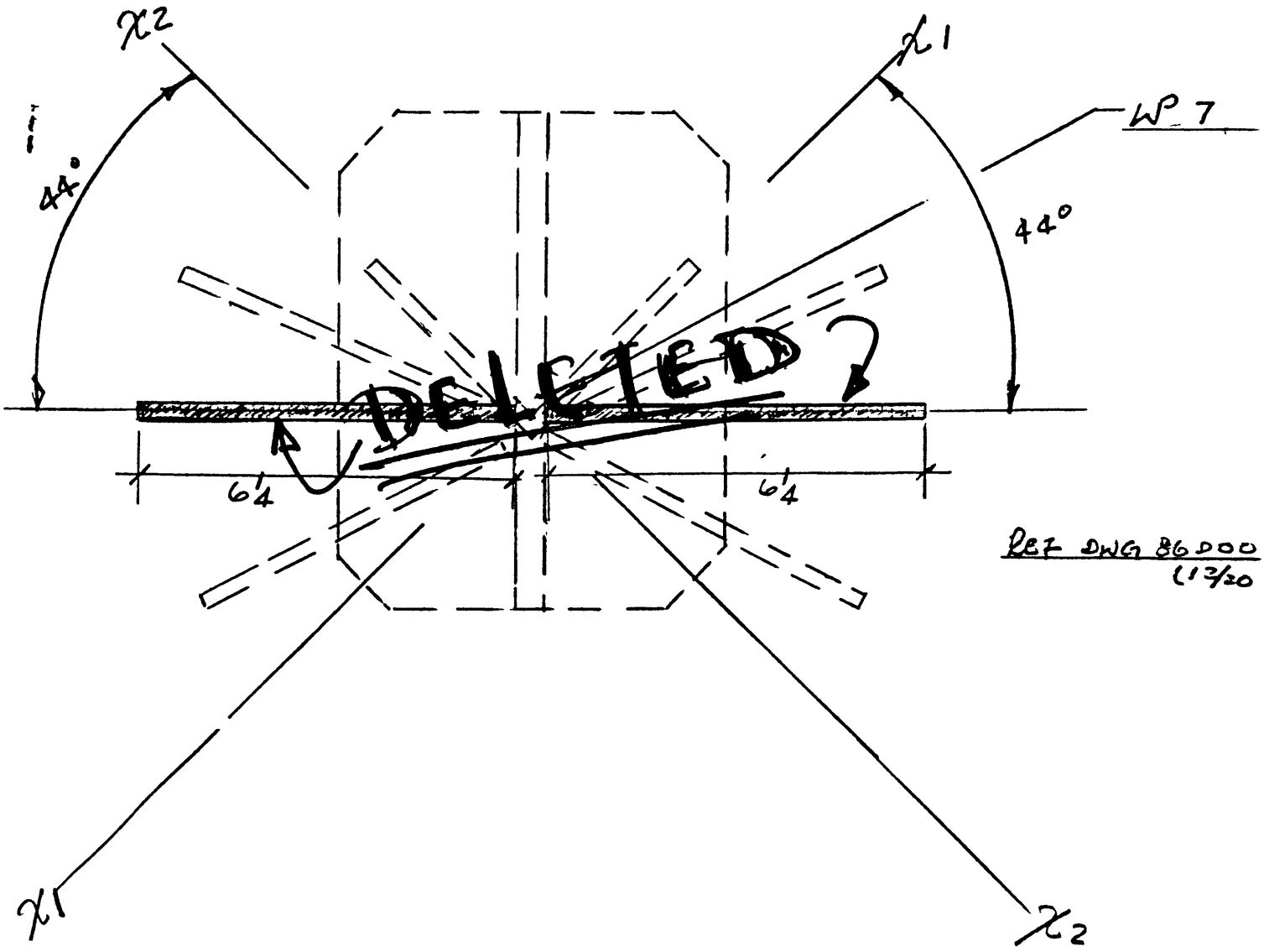
MTL LIST: TWO 1/4 PL 4 1/2 x 6 1/4
A-36 STEEL



REF DWG 86000128
(12/20)

X2

AT JOINT 7 FOR LOCS 3 & 4 [9-1-82 LK]



REF DWG 86000 (13/20

MTL LIST :

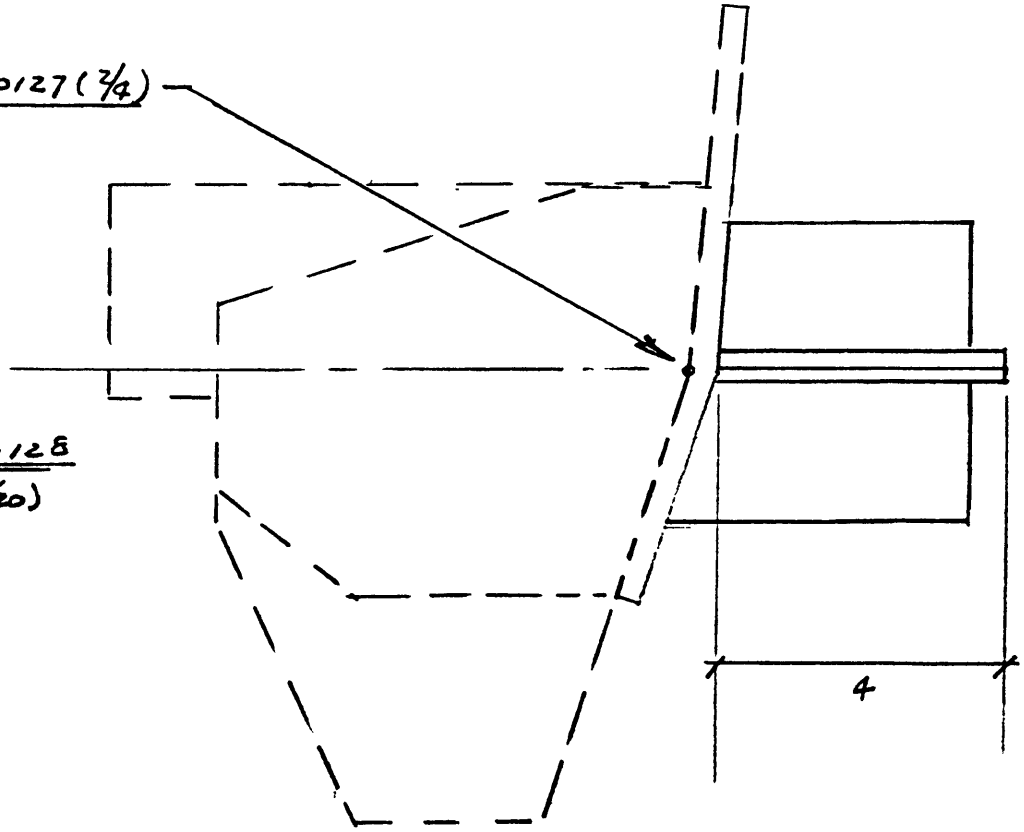
110L AS SHOWN

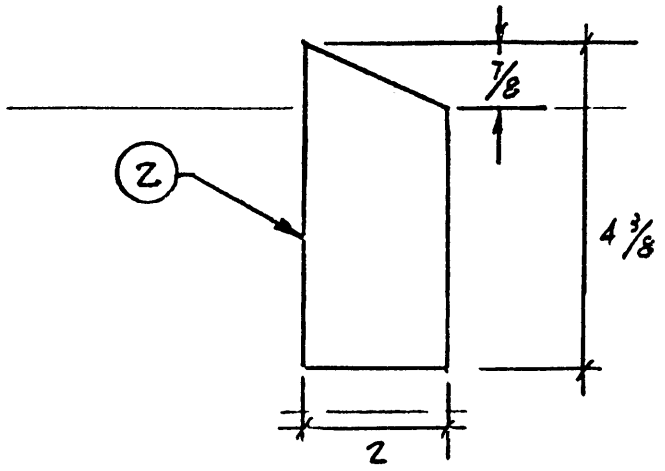
110R OPP. HND

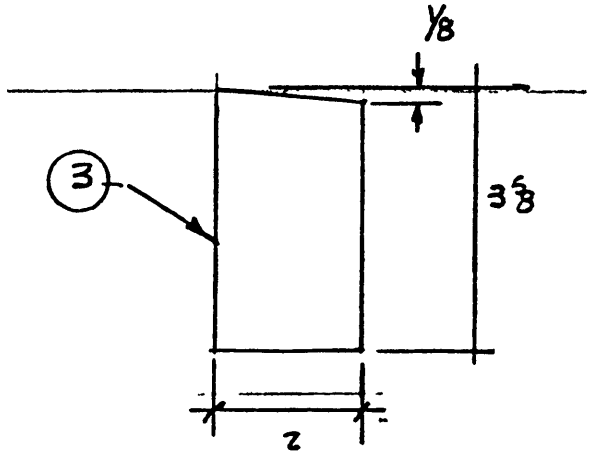
(1)	1/4 PL	4 x 8	(A-36 STEEL)
(2)	1/4 PL	2 x 4 3/8	"
(3)	1/4 PL	2 x 3 5/8	"

WP 110 DWG# 86D00127 (3/4)

REF DWG 86D00128 (11/20)







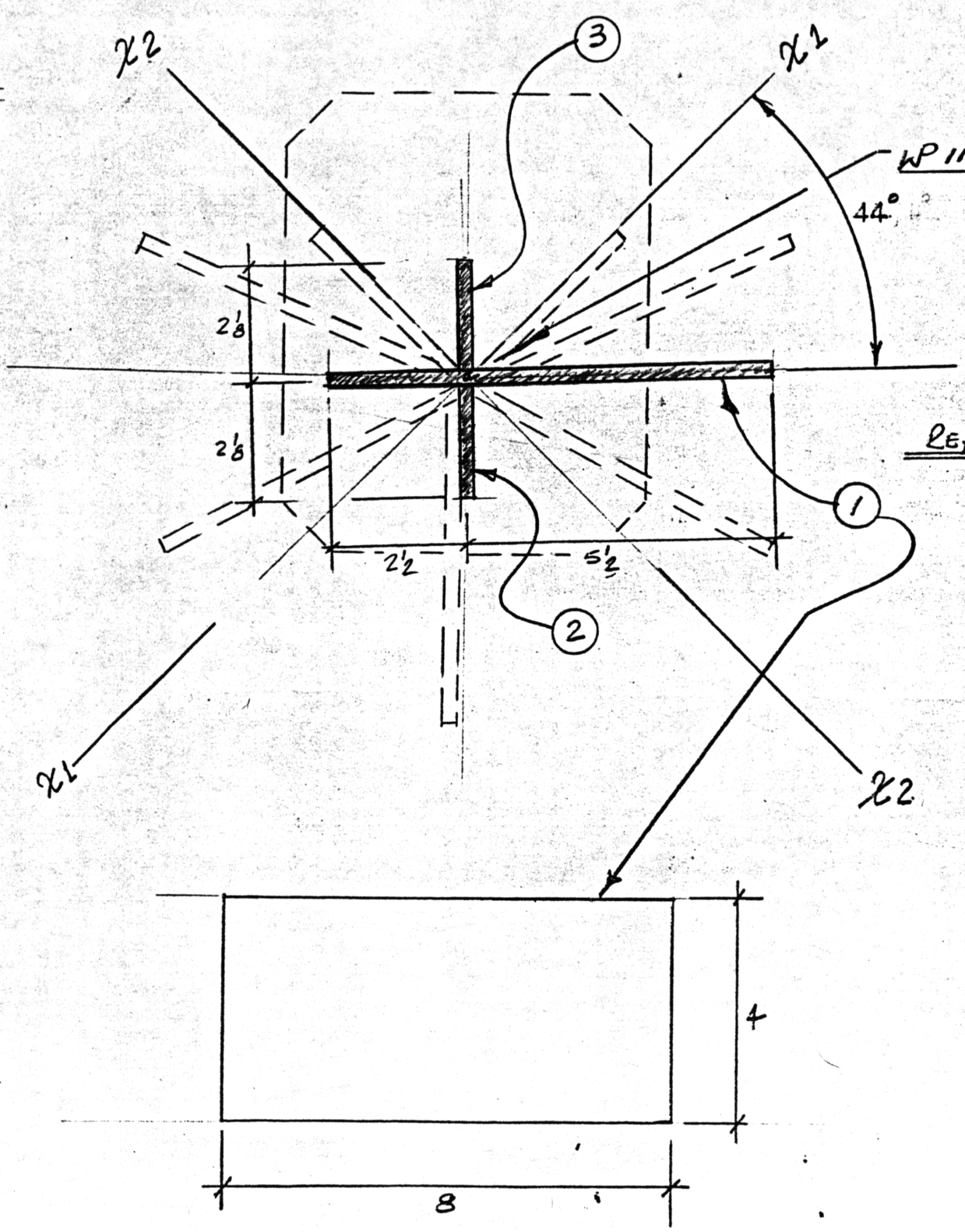
P.14L

AT JOINT 110 FOR LOCS. 3 & 4 [9-1-82 LK]

MTL

110L AS

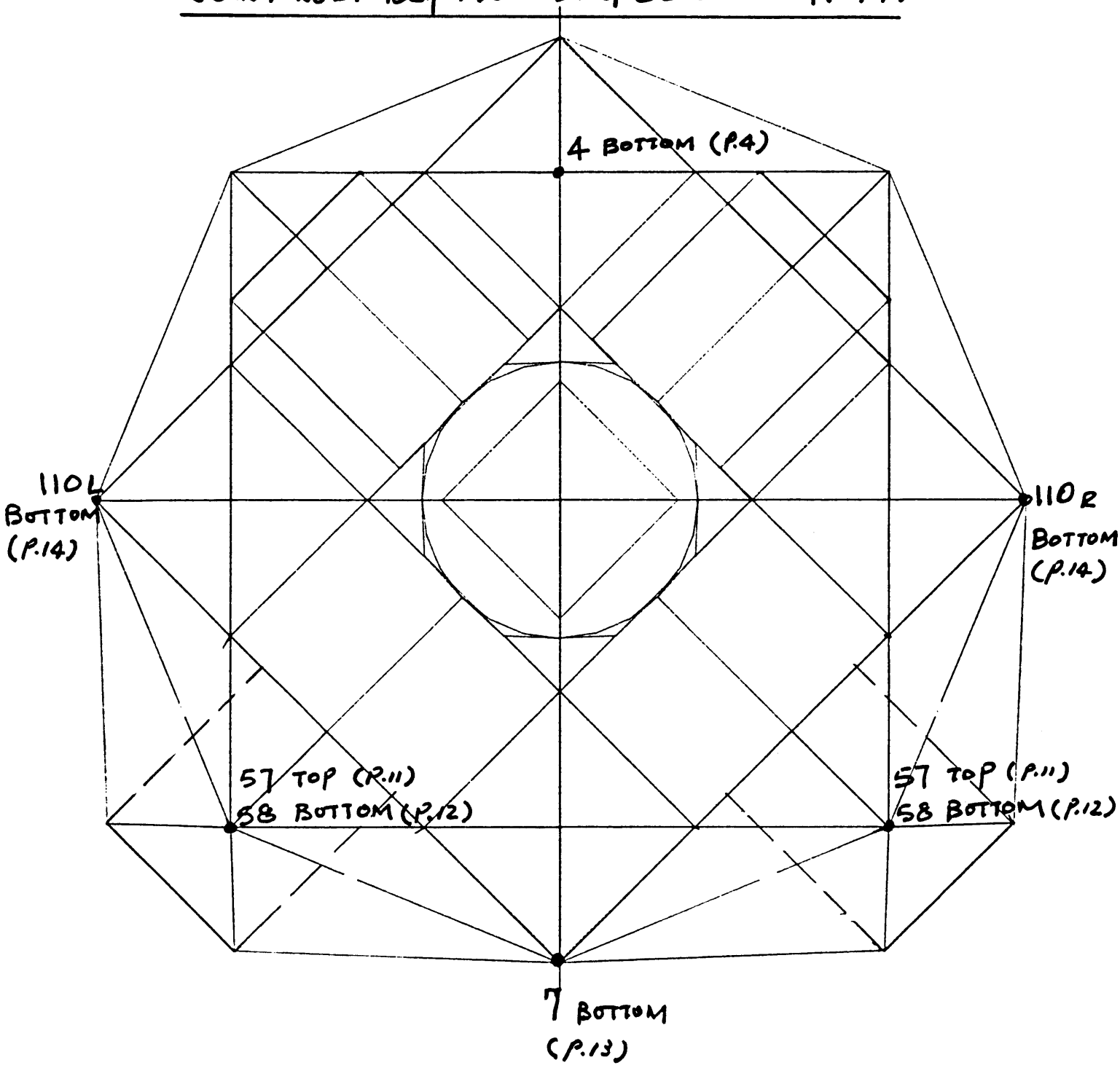
110R OF



REF DWG 86D

LOCATIONS for WELDINGS

JOINT NOS. REF. TO DWG 86D00127(2/4)



+12M HUB W/ RECEIVERS (00, 90)