

76-3W  
76-4W  
76-9L

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76-3W  
76-4W

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# EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning  
Roadway 16 feet wide. Side Slopes 1 on 1.  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6 + (20-16) ÷ 2 or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1 1/2 see inside of back cover.  
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76-7W - Pages 40 to 75

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County closed

July 1, 1942  
E.V.

This Field Book is manufactured of a high grade 50% Rag Paper having a WATER RESISTING surface.

~~Re~~

Book completely  
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10-6-42

1937

SECTION	PAGE	SECTION	PAGE
1	36	26	5 ✓
2	29	27	34 ✓
3	28	28	13 ✓
4	24	29	19 ✓
5	27	30	18 ✓
6	30	31	17 ✓
7	31	32	16 ✓
8	25	33	12 ✓
9	23	34	11 ✓
10	26	35	7 ✓
11	35	36	1 ✓
12	10 ✓		
13	6 ✓		
14	9 ✓		
15	15 ✓		
16	22		
17	33		
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20	20 ✓		
21 ✓	14 ✓		
22 ✓	8 ✓		
23 ✓	4 ✓		
24 ✓	3 ✓		
25 ✓	2 ✓		

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PAGE 40

① Stone SOUTH SIDE CORNER POST

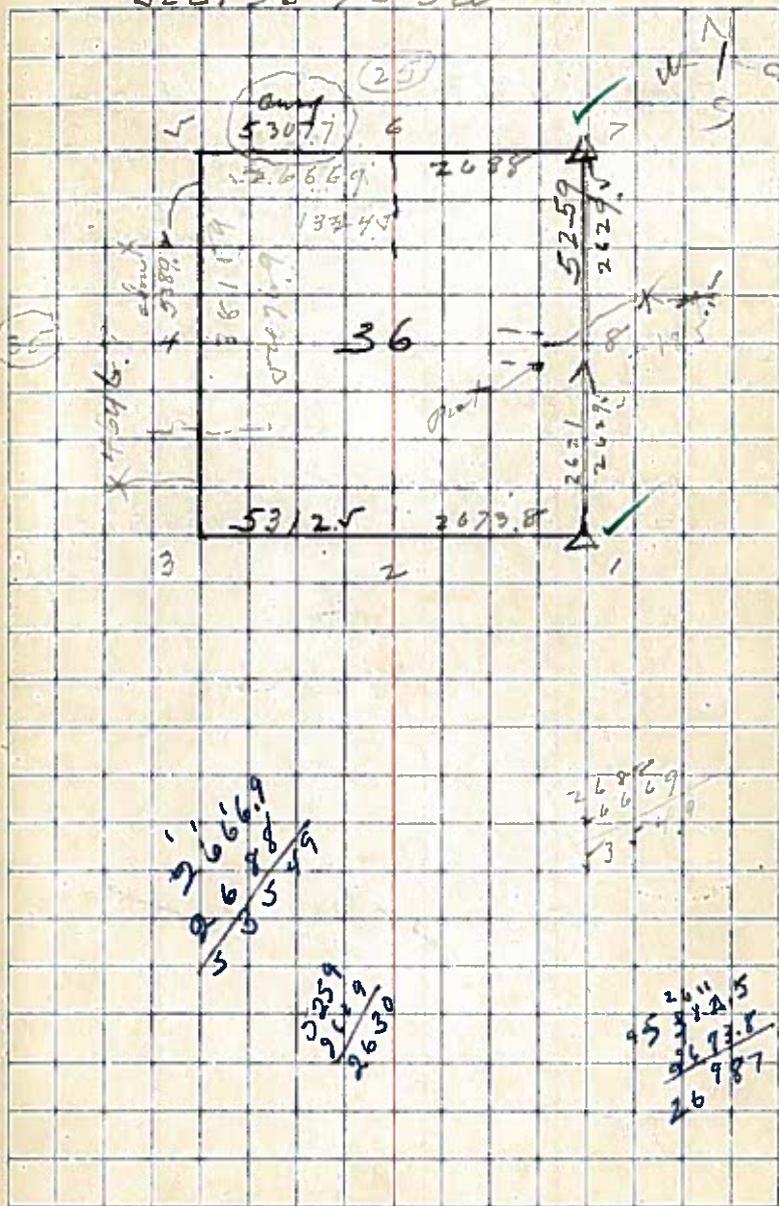
7 STONE IRON PIN ON TOP

474 NE TO TEL POLE

45.4 SW TO 14" CEDAR USED TREE

871 SW TO NE CORNER POST

SEC. 36-76-3W







⑤ Pine Center Road

277 E. TO FENCE POST

205 N. TO K. LEANING STUMP

382 S.W. TO FENCE POST

⑦ 304 S.W. TO POST

275 S.E. TO POST

194 N. TO POST

370 N.E. TO POST

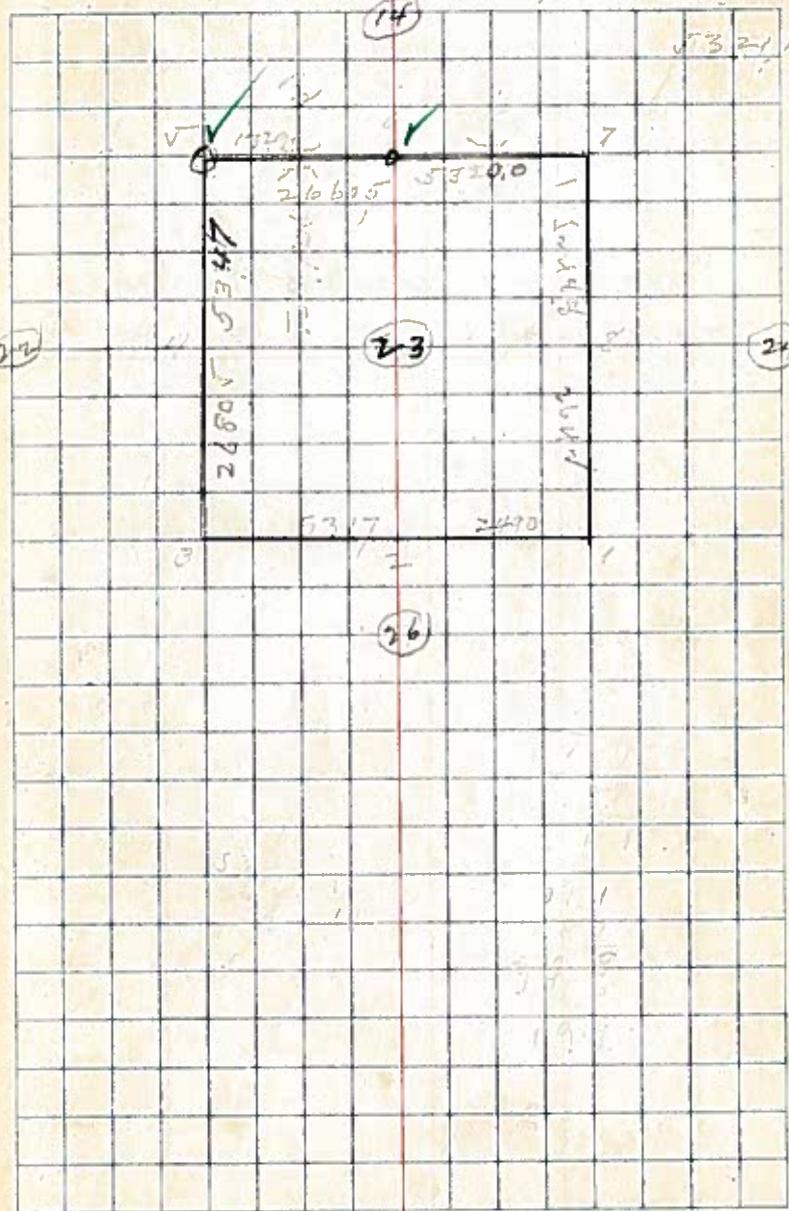
⑥ IRON PILE

105 N. TO POST - WINDSOCK

340 N.E. TO POST

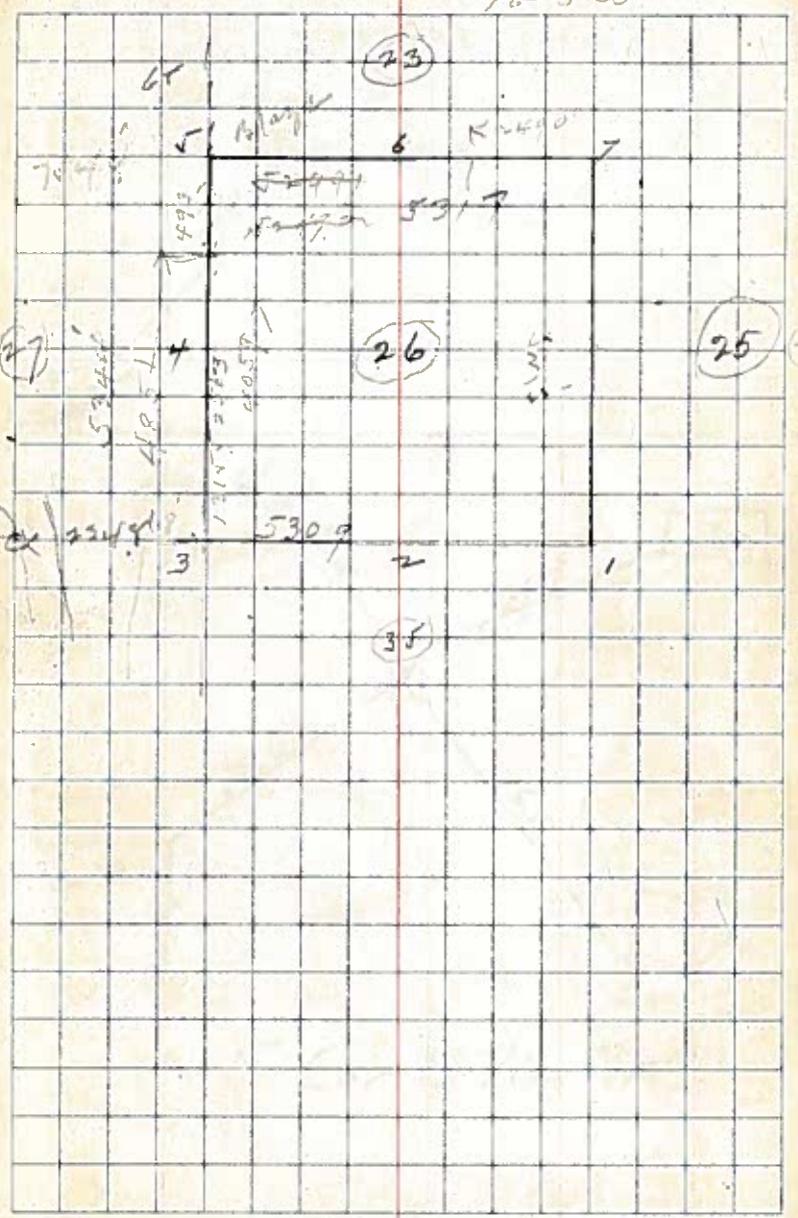
170 S.W. TO POST

76-3 W



3 RFT. NORTH TO LARGE PATTEN WICK STAMP  
 224.8' W. TO DEEP POST W. SIDE ROAD

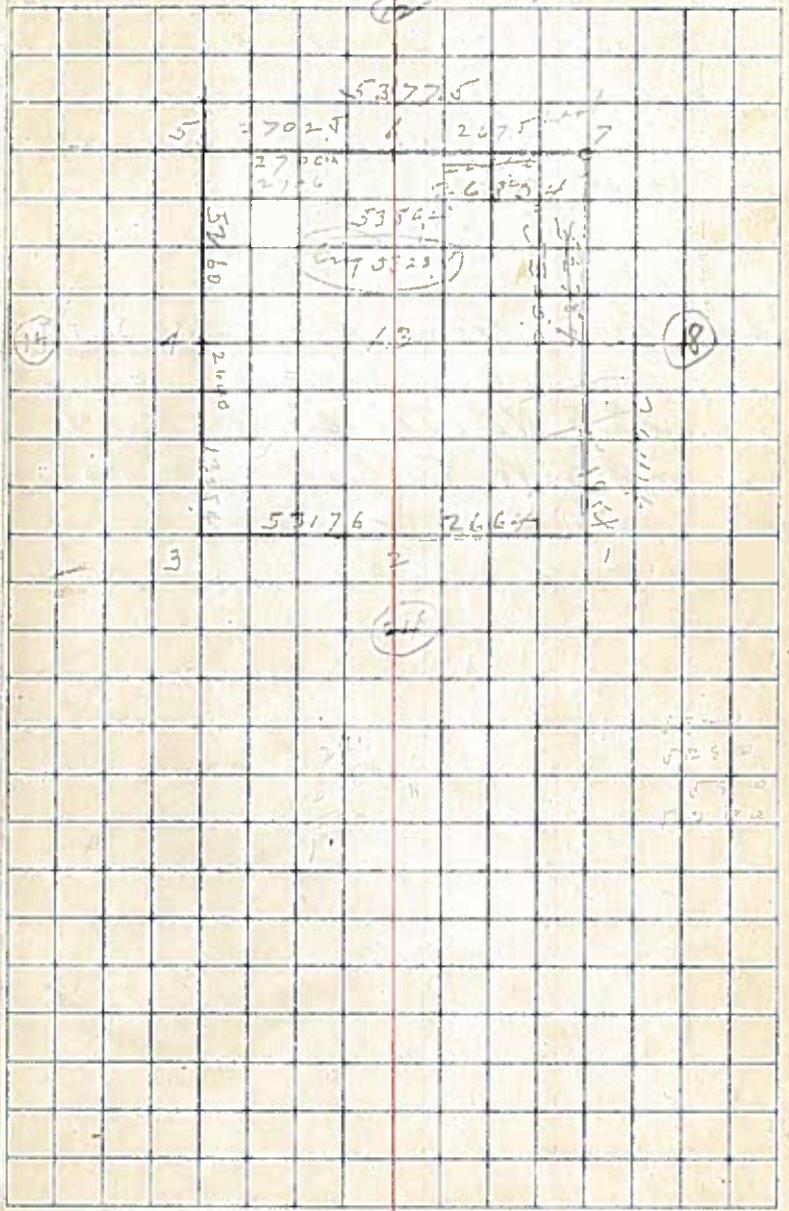
76-3 W



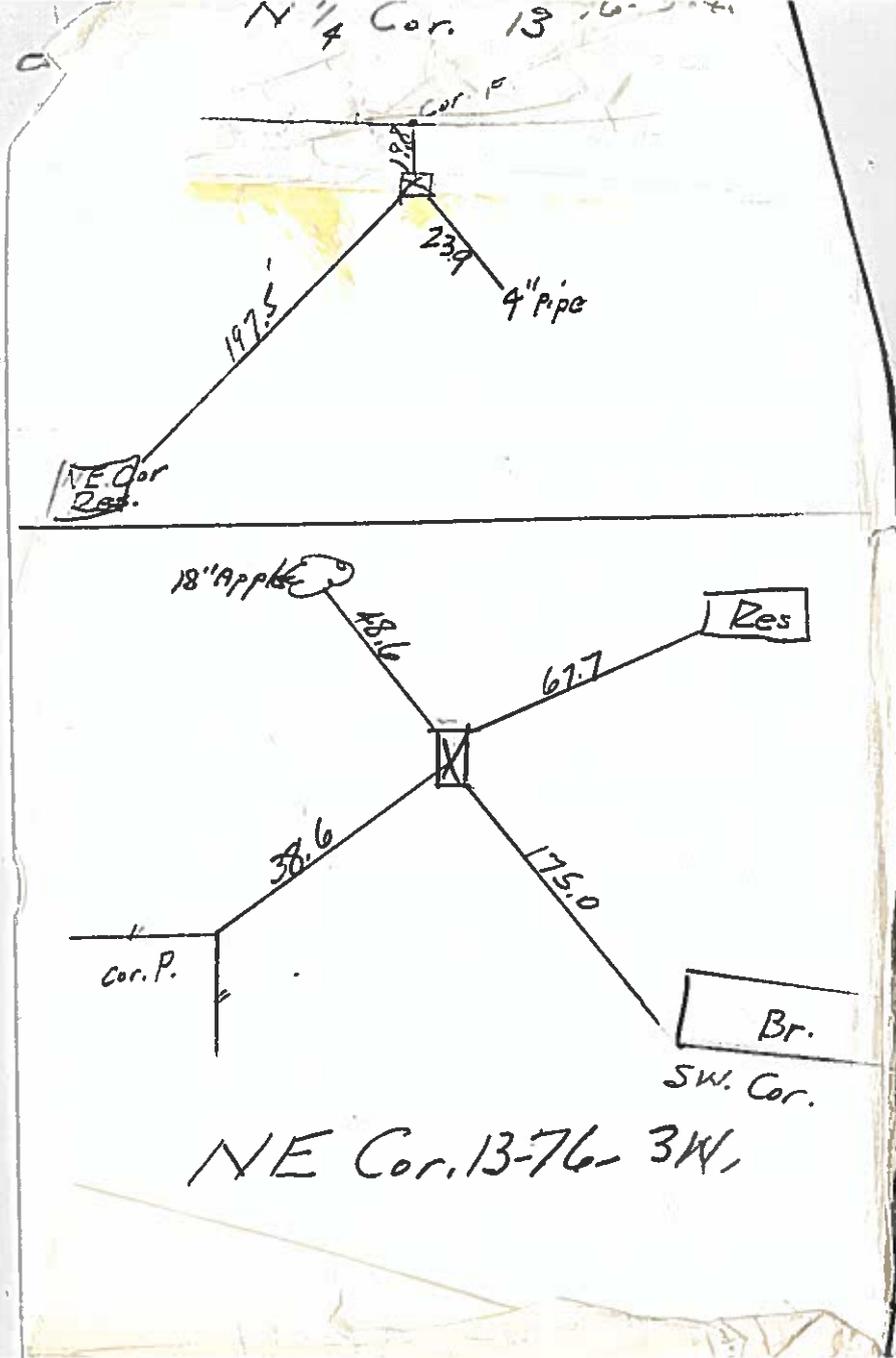
① FROM PIN 38 FT N. OF PIN CAN P. 07

⑦ PIN 59.7 TO SW COR PORCH FOUNDATION  
487 NW TO 1 1/2" APPLE TREE

76-366



N 1/4 Cor. 13



NE Cor. 288.

Cor. P.

4" pipe

18" Apple

Res.

Cor. P.

Br.

SW. Cor.

NE Cor. 13-76-3W,

①

STONE SHEET S. OF CONTACT

②

STONE

③

SETTLEMENT  
STONE - 10 FT. W. OF FACE GING SOUTH  
STONE PEN. DELINEATE NORTH

33.8 NE. TO 10" HICKORY

20.5 W. TO CORNER POST

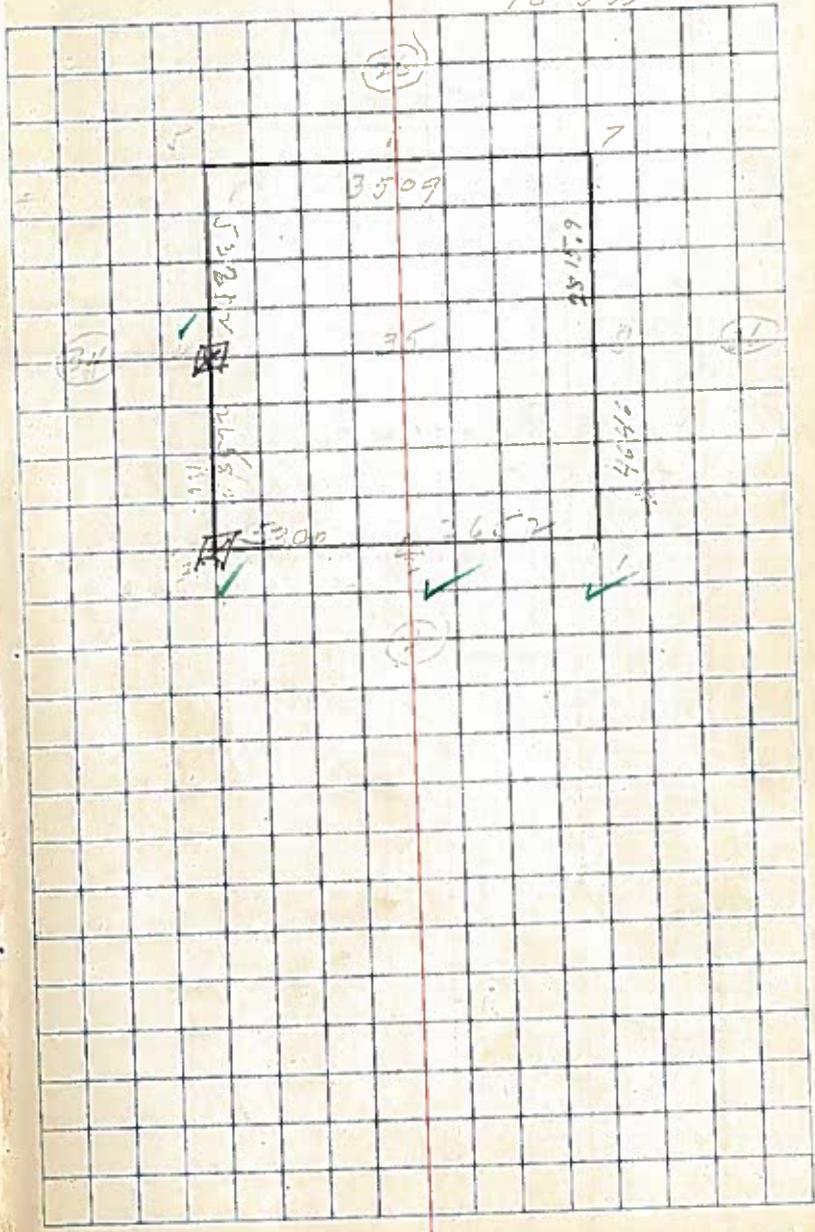
④

SETTLEMENT - STONE

30.2 N. TO 1 1/2" HICKORY

27.3 SW TO 20" W.O. } 131/2" EX

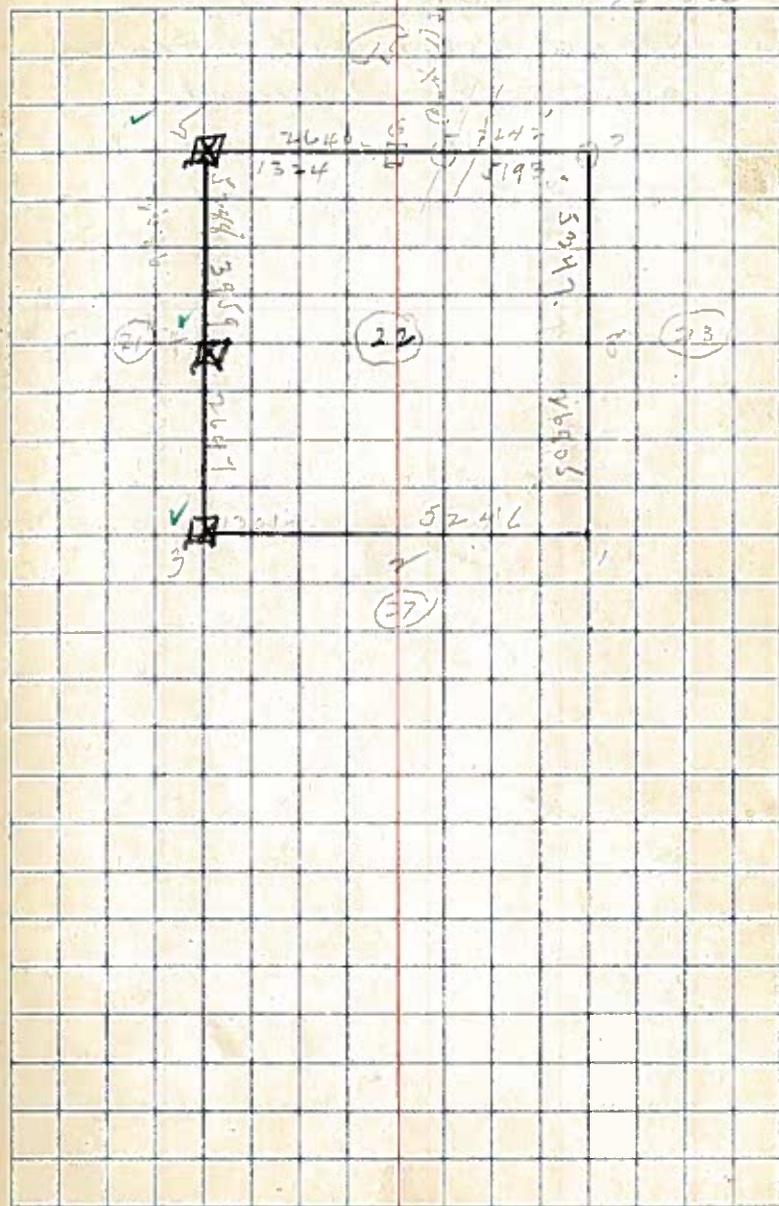
76-3 W



(1) SET MONUMENT So. OF FENCE E-W-N  
94 SE TO 36" ELM

(3) SET-MONUMENT-  
AT- E+W FENCE LINE  
E. SIDE OF- POST-  
181.6 NE. TO 12" HICKORY

(4) SET-MONUMENT-  
3.8 S. TO 36" BLAZED W. OAK  
20.1 SW. TO BLAZED MAPLE E. POST  
28.0 N. TO 4" BLACK OAK





①

21-38

53 46

20.52

N. 554  
5300 Y

12

08  
5280  
1927  
611

302

②

2702.5

26.5

5377.5

③

④



17  
⑦ SET MON. 12.8 E TO 1" W O.  
274 NE TO 1" LINN

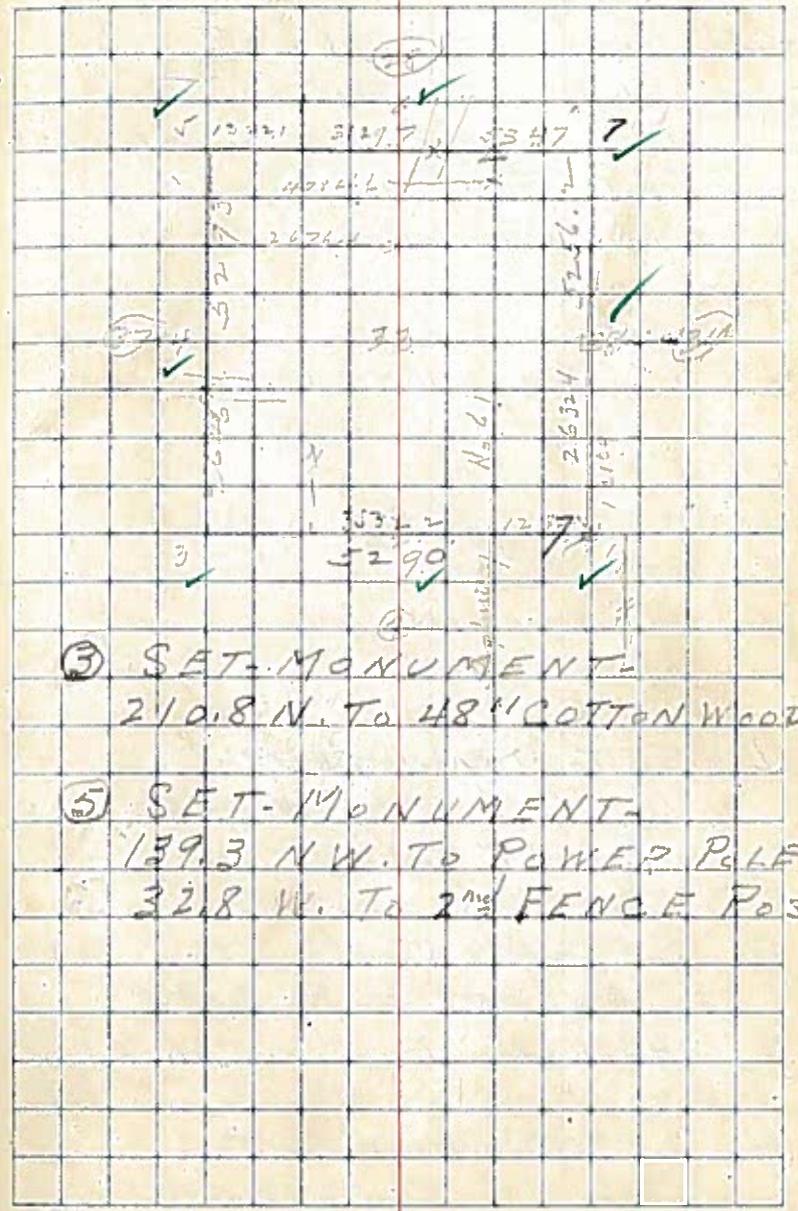
⑧ SET MONUMENT  
567 NW TO TEL. POLE  
107.3 SW TO POWER POLE  
99.2 SE TO 5" ELM

⑨ SET MONUMENT CENTER OF PASTURE  
453.4 W. OF CEN ROAD

⑩ SET MONUMENT ON E+W FENCE  
1368.0 E TO B'N OF PAVEMENT  
NO OTHER TIES

① SET MONUMENT STONE  
31.3 NW TO TELEPHONE POLE  
89.1 SW. TO TELEPHONE POLE  
110.5 SE TO TELEPHONE POLE

④ SET MONUMENT -  
63.9 NE. TO GEODETIC #81  
57.6 NW POWER POLE  
53.9 SW. TO POWER POLE



③ SET MONUMENT -  
210.8 N. TO 48" COTTON WOOD

⑤ SET MONUMENT -  
139.3 NW. TO POWER POLE  
32.8 W. TO 2<sup>nd</sup> FENCE POST

Center Line 28 SET MONUMENT  
 164 N. To C.R. Post NORTH SIDE ROAD  
 219 S. TO FENCE POST SOUTH SIDE (PARK)  
 330 NW. TO 60" COTTONWOOD  
 4083 SW TO POWER POLE

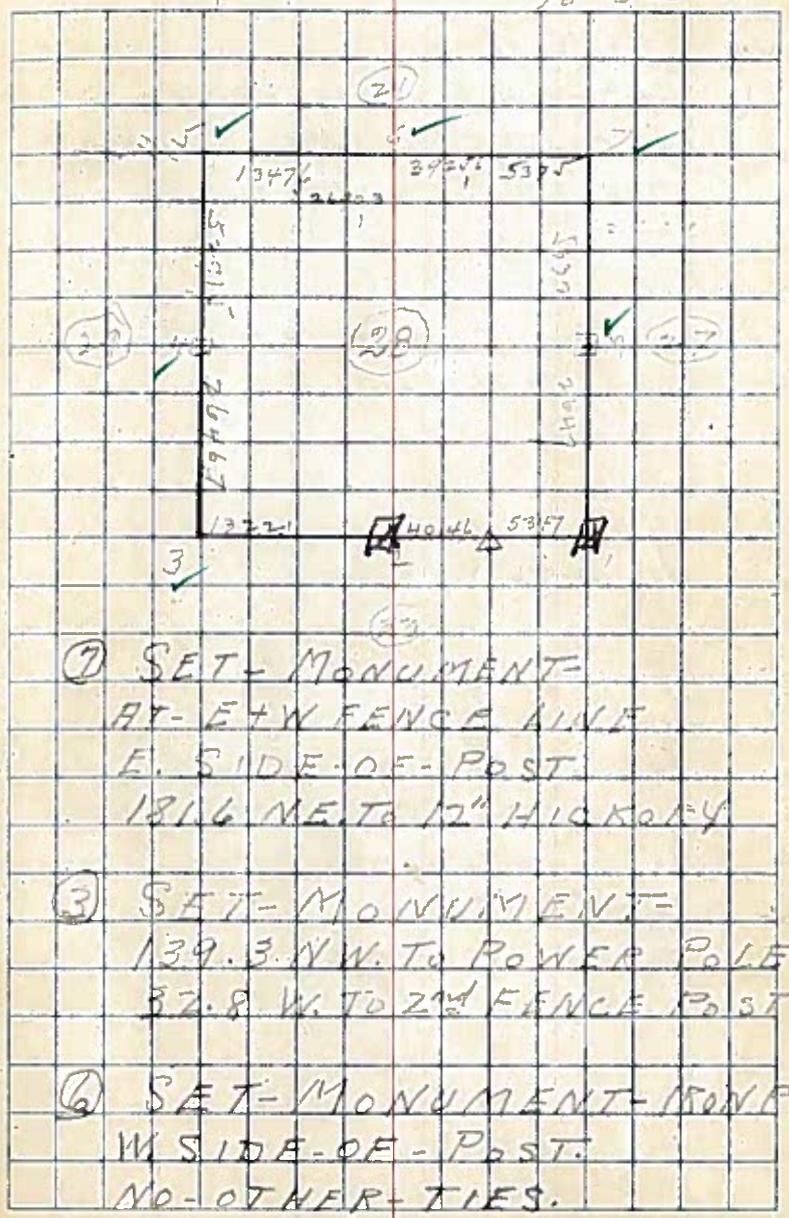
⑧ SET MONUMENT  
 103.5 NW. TO 10" HICKORY  
 1168 NORTH TO 18" ELM

⑤ SET MONUMENT  
 90.7 SW TO POWER POLE  
 265 W TO CR POST  
 199 E TO CR POST

① SET-MONUMENT-  
 12.8 SE. TO 16" W. OAK  
 37.4 NE. TO 12" LINN

② SET-MONUMENT-  
 CENTER-OF-PASTURE  
 4534 W. OF-CENTER-OF-RD.

④ SET-MONUMENT-  
 32.6 NW. TO-CORNER-POST  
 31.5 NE TO " "  
 31.1 SW TO " "



⑦ SET-MONUMENT-  
 AT-E+W FENCE LINE  
 E. SIDE-OF-POST  
 1816 NE. TO 12" HICKORY

③ SET-MONUMENT-  
 139.3 NW. TO POWER POLE  
 32.8 W. TO 2ND FENCE POST

⑥ SET-MONUMENT-IRON PIN  
 W SIDE-OF-POST.  
 NO-OTHER-TIES.

17  
(4) SET MONUMENT  
662 NW TO 18" HICKORY  
299 WEST TO HENG STUMP  
171.9 SW TO POWER POLE

(7) SET MONUMENT - FENCE E+W  
94 SE TO 36" ELM

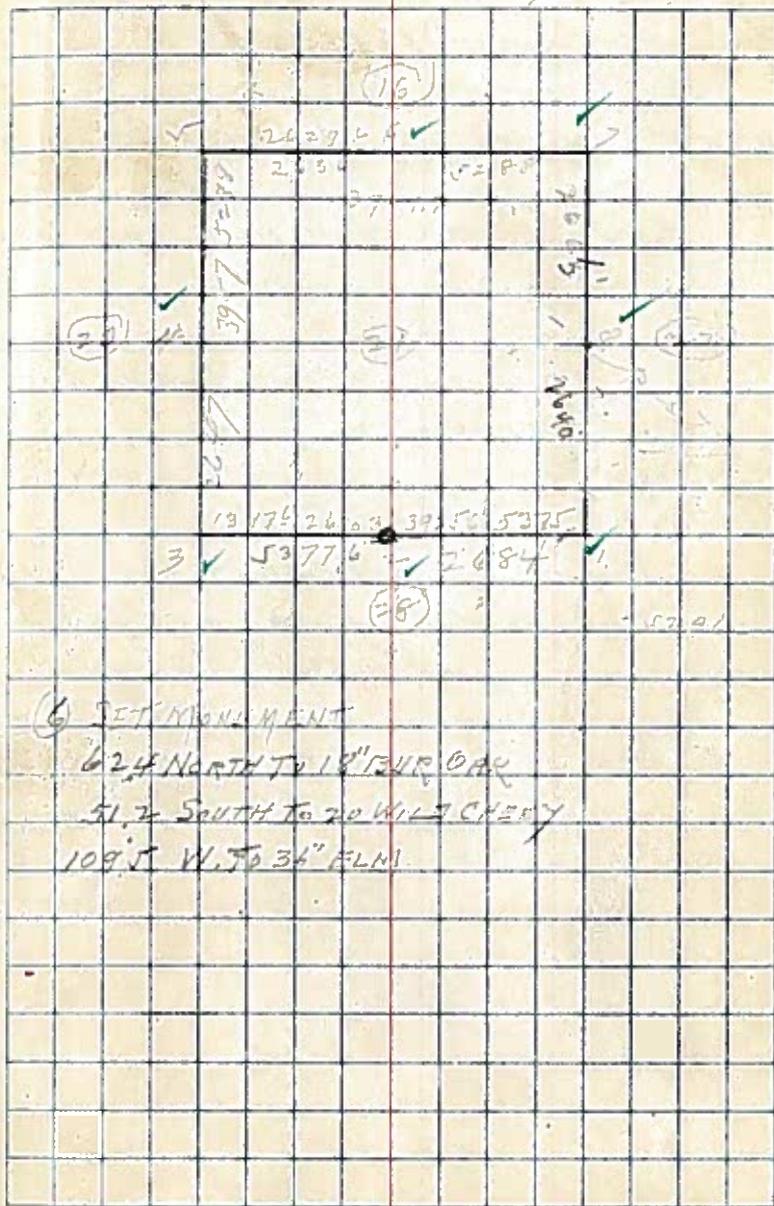
(1) SET MONUMENT FENCE E+W S. Side of Post  
181.6 NE TO 12" HICKORY

(8) SET MONUMENT  
3.8 SOUTH TO 3" W OAK BLAZED  
20.1 SW TO BLAZED HARD MAPLE - GROUP  
28.0 NORTH TO 4" ALBION OAK

(2) SET MONUMENT - FOUND IRON ROD  
WEST SIDE POST NO TIES

(3) SET MONUMENT  
90.7 SW TO POWER POLE  
26.5 W TO COR POST  
199 E TO COR POST

76-3 W

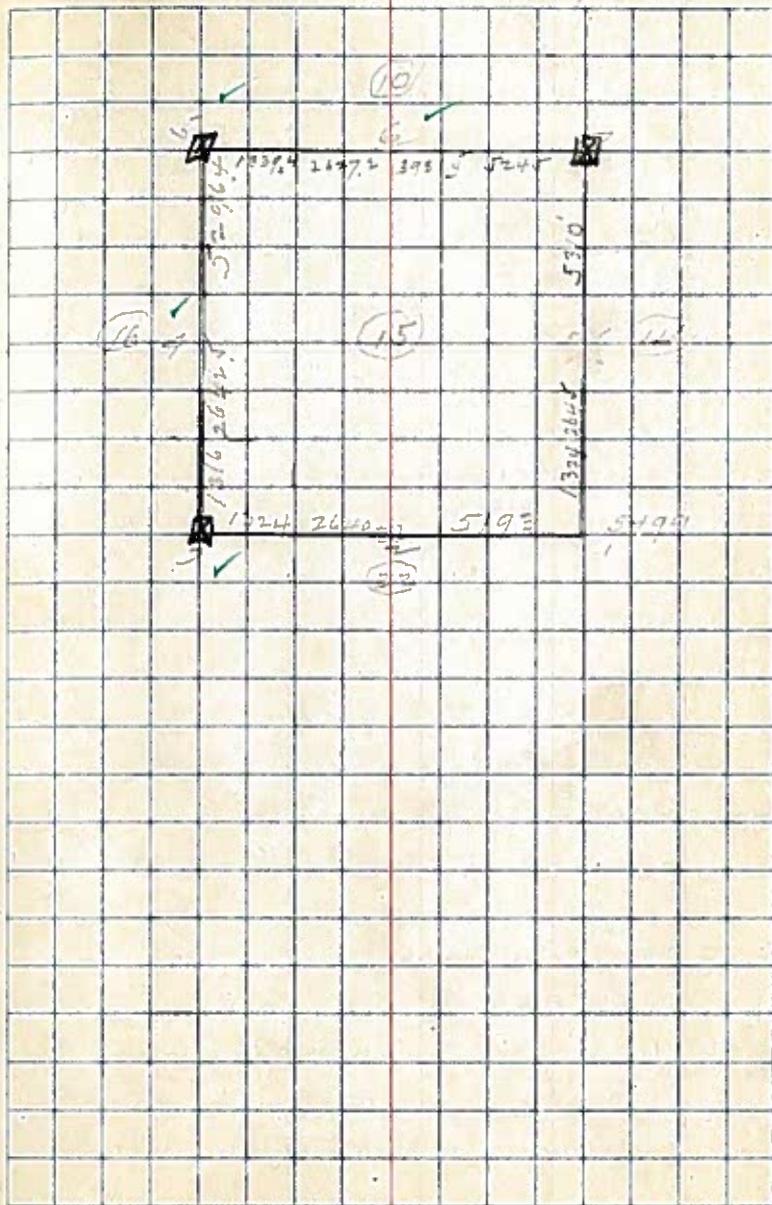


⑤ SET MONUMENT FOUND STONE  
33.6 WEST TO CORNER POST  
372.9 SOUTH TO NORTH END OF RR BRIDGE

⑥ SET MONUMENT E+W FENCE + FENCE SOUTH

③ SET MONUMENT FENCE E+W +  
94 SE TO 36" ELM

④ SET-MONUMENT-  
39.2 SE. TO TELEPHONE POLE  
42.3 NW. TO POWER POLE  
41.3 S. TO NE. COR. O'BREIN-MONROE



① SET MONUMENT  
2108 NORTH TO 48" BUTTERNUT TREE

② SET MONUMENT  
639 NE TO QUADRIC No 70-81  
57.6 NW TO POWER POLE  
539 SW TO POWER POLE

③ SET MONUMENT  
1393 NW TO POWER POLE  
338 W TO 2<sup>ND</sup> POST OF FENCE RUNNING W

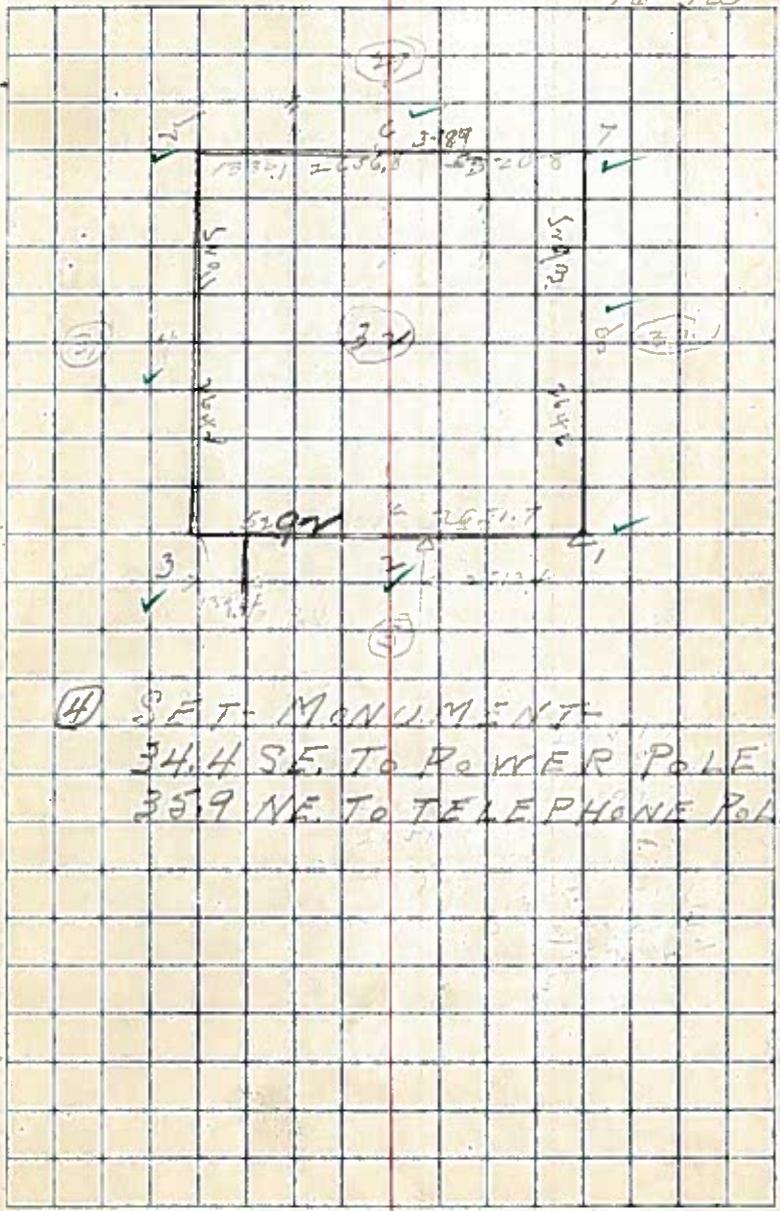
④ SET MONUMENT AT FENCE INTERSEC

⑤ SET MONUMENT ON E+W FENCE LINE  
RUNNING FENCE NORTH  
1304 E OF STONE ON FENCE GOING SOUTH

⑥ SET MONUMENT  
383 EAST TO WEST END OF CONCRETE well  
148.6 EAST TO FENCE GOING S

⑦ SET MONUMENT ON E+W FENCE LINE  
FENCE GOING NORTH West side Current  
post

76-36



④ SET MONUMENT  
34.4 SE TO POWER POLE  
35.9 NE TO TELEPHONE POLE



7 SET MONUMENT  
 128 W FENCE NORTH  
 130.7 SE TO 30" LUB.  
 75.1 SE TO 16" "

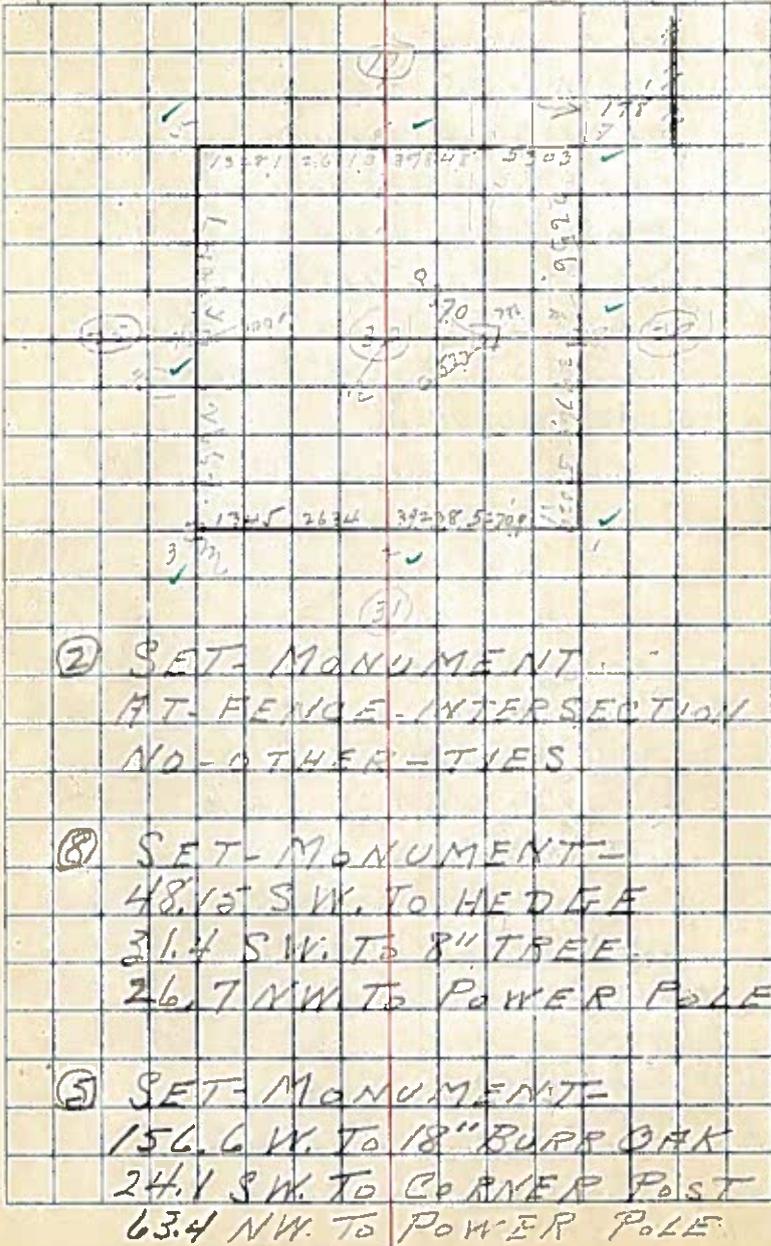
CENOPSECO SET MONUMENT  
 341 NE ELM QUADRANT 30' BOTTOM  
 712 NW TO POWER POLE  
 389 SW TO DOUBLE WALNUT 16" AT BASE

③ SET MONUMENT  
 164 E TO 10" WHITE OAK POST  
 184 N TO 8" " " "  
 91 S TO 12" " " "

④ SET MONUMENT  
 326 NW TO CONCRETE FENCE COR.  
 312 SE TO GEODETIC MON 70-37  
 360 NE TO POWER POLE

① SET MONUMENT  
 PT. E. N. E. N. FENCE WEST SIDE CORNER POST

⑥ SET MONUMENT  
 45.2 NE TO 14" ELM  
 35.5 NE TO 15" " " LINE WITH FENCE GOING NORTH



② SET MONUMENT  
 AT FENCE INTERSECTION  
 NO OTHER TIES

⑧ SET MONUMENT  
 48.15 SW TO HEDGE  
 31.4 SW TO 8" TREE  
 26.7 NW TO POWER POLE

⑤ SET MONUMENT  
 156.6 W TO 18" BURR OAK  
 24.1 SW TO CORNER POST  
 63.4 NW TO POWER POLE

③

SET MONUMENT

32.6 NW TO COR POST

31.5 NE TO COR POST

31.1 SW TO COR POST

34.4 SE TO COR POST

⑤

SET-MONUMENT-

130.7 SE. TO 20" W. OAK

75.15 SE. TO 24" W. OAK

(CENSED)

SET MONUMENT.

49.7 SW TO 10" CATALPA TREE

42.7 SE TO 12" " "

56.1 SE TO 8" " "

④

SET MONUMENT.

FOUR STAIR

42.5 S TO BLAZED HEDGE

31.4 SW TO 8" TREE

26.7 NW TO POWER POLE

③

SET MONUMENT. W. SIDE CORNER POST.

E + W + N FENCES. DISTANCE MARK

⑥

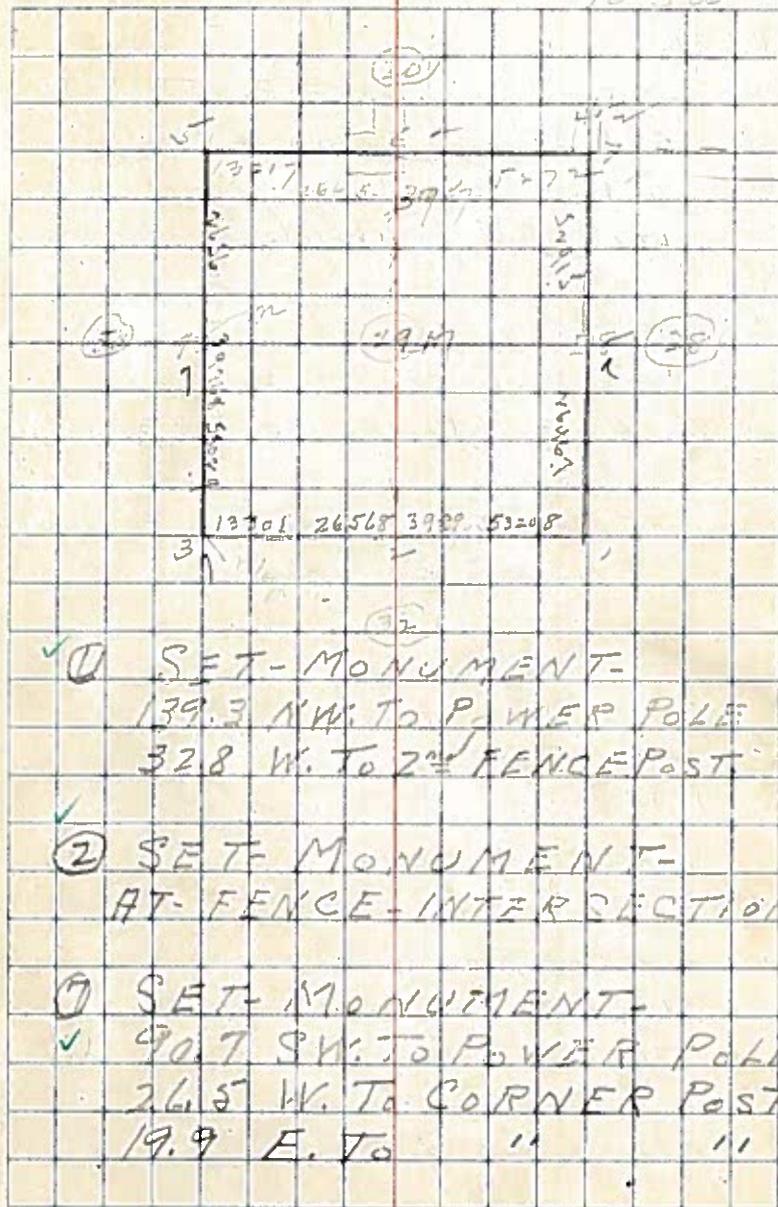
SET-MONUMENT-

32.5 SW. TO POWER POLE

33.0 SE. TO CORNER POST

E. SIDE-OF-ROAD

76-30



①

SET-MONUMENT-

139.3 NW. TO POWER POLE

32.8 W. TO 2<sup>ND</sup> FENCE POST

②

SET-MONUMENT-

AT-FENCE-INTERSECTION.

①

SET-MONUMENT-

90.7 SW. TO POWER POLE

26.5 W. TO CORNER POST

②

SET-MONUMENT-

19.9 E. TO " "

" " " "





⑦ SET MONUMENT FOUND STONE  
33.6 WEST TO CORNER FENCE POST  
37.9 SOUTH TO NORTH END OF RR BRIDGE

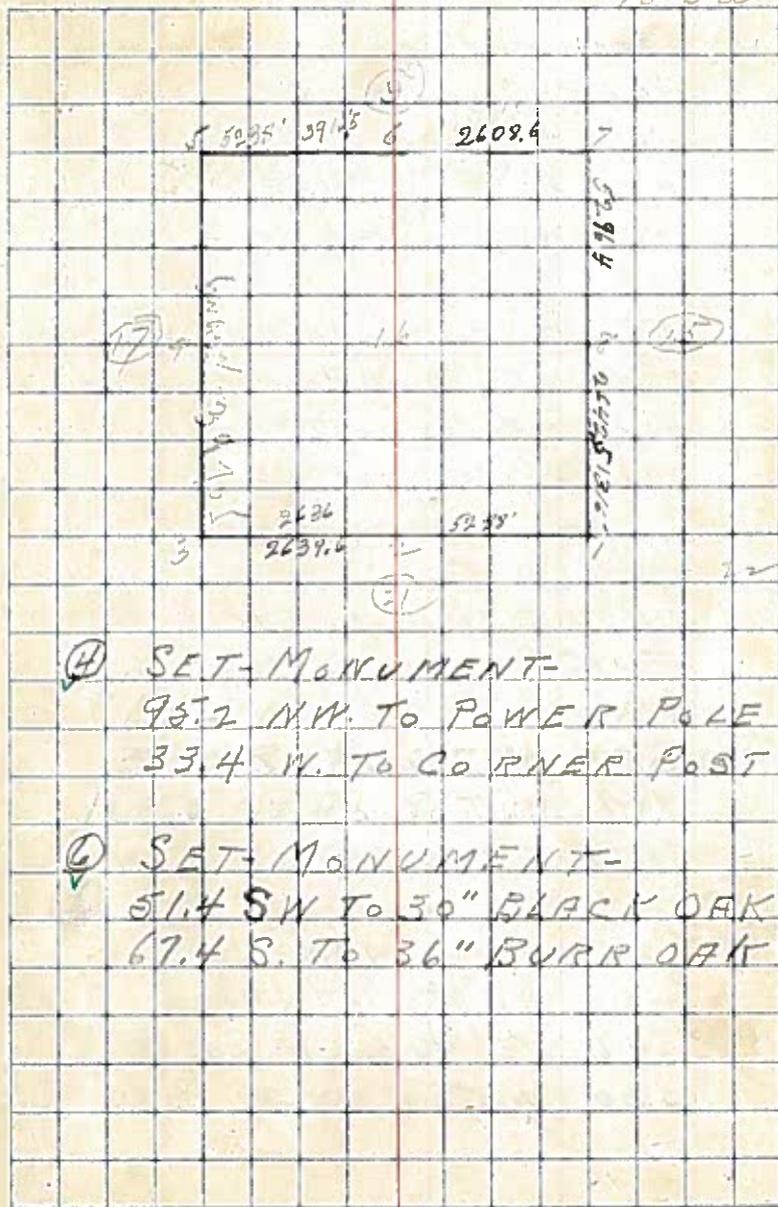
⑤ SET MONUMENT-  
42.2 NE. TO 14" APPLE  
34.6 SE. TO 30" H. MAPLE  
36.0 W. TO CORNER POST

⑧ SET MONUMENT  
39.7 S.E. TO TEL. POLE  
42.3 N.W. TO POWER POLE  
41.3 SOUTH TO NE. CORNER LINDA GIBBEN  
MONUMENT  
53.8 SW TO NW COR. BASE PATRICK O'DONNAN  
MONUMENT

① SET MONUMENT FENCE E-W-N  
94 S.E. TO 36" ELM

② SET MONUMENT-  
62.4 N. TO 18" BURR OAK  
51.2 S. TO 20" W. CHERRY  
109.5 W. TO 36" ELM.

76-3 W







- ① ✓ SET MONUMENT - FOUND STONE  
 422 N.E. TO 14" APPLE TREE  
 34.6 S.E. 30° TO PINE MAPLE  
 56.0 WEST TO CORNER POST

②

STONE  
 40.5 E. TO ROAD

- ④ ✓ SET - MONUMENT -  
 128.1 N.E. TO 30" WALNUT  
 86.6 S.W. TO 36" HICKORY  
 33.3 N. TO 8" CORNER POST

SET MONUMENT

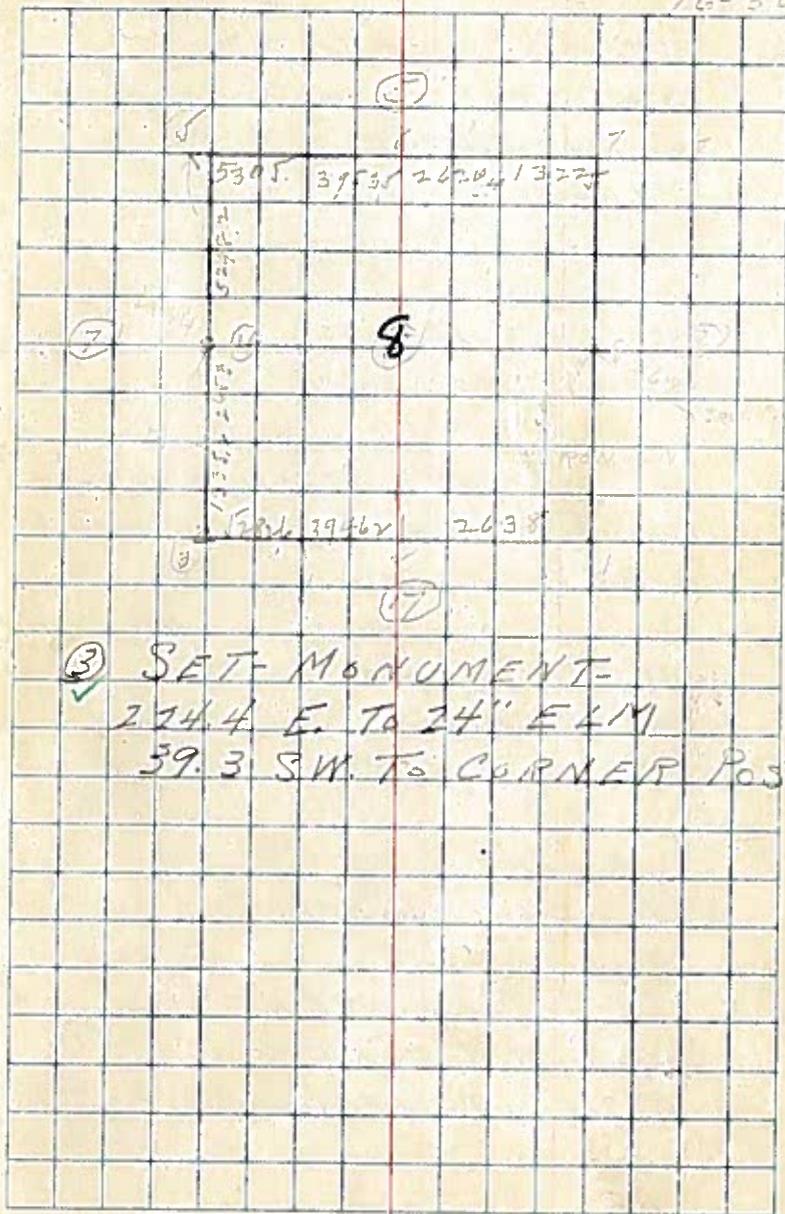
- ✓ NW ✓ 50.5 S.E. TO 20" W OAK  
 8.9 S.W. TO 15" ELM  
 41.6 N.E. TO 20" W OAK

- ✓ NW ✓ SET MONUMENT IN DITCH 5' DEEP  
 148.8 S.W. OF E.P.S. TO 18" W OAK  
 12.4 WEST TO WEST BRACE POST

- ✓ NW ✓ SET MONUMENT - ON LINE FENCE GIVING NORTH  
 113.5 N.W. TO POWER POLE  
 33.5 W. TO 10" W OAK CORNER POST

- ✓ NW ✓ SET MONUMENT  
 100.1 N. = REF. IRON PIN S.E. 46.7  
 " " " " S.W. 26.7  
 233 S.W. TO TREE TO E.P.S.  
 118.0 N.W. TO POWER POLE

76-300



- ③ ✓ SET - MONUMENT -  
 214.4 E. TO 24" ELM  
 39.3 S.W. TO CORNER POST

④ ✓ SET MONUMENT FOUND PIN  
 1378.5 W. TO NE COR POST EAST OF BRIDGE  
 42.4 NW TO COR POST  
 399 NE TO COR POST

⑦ ✓ SET MONUMENT  
 38.6 N.E. TO 60" RED ELM  
 259 NW TO 10" " "

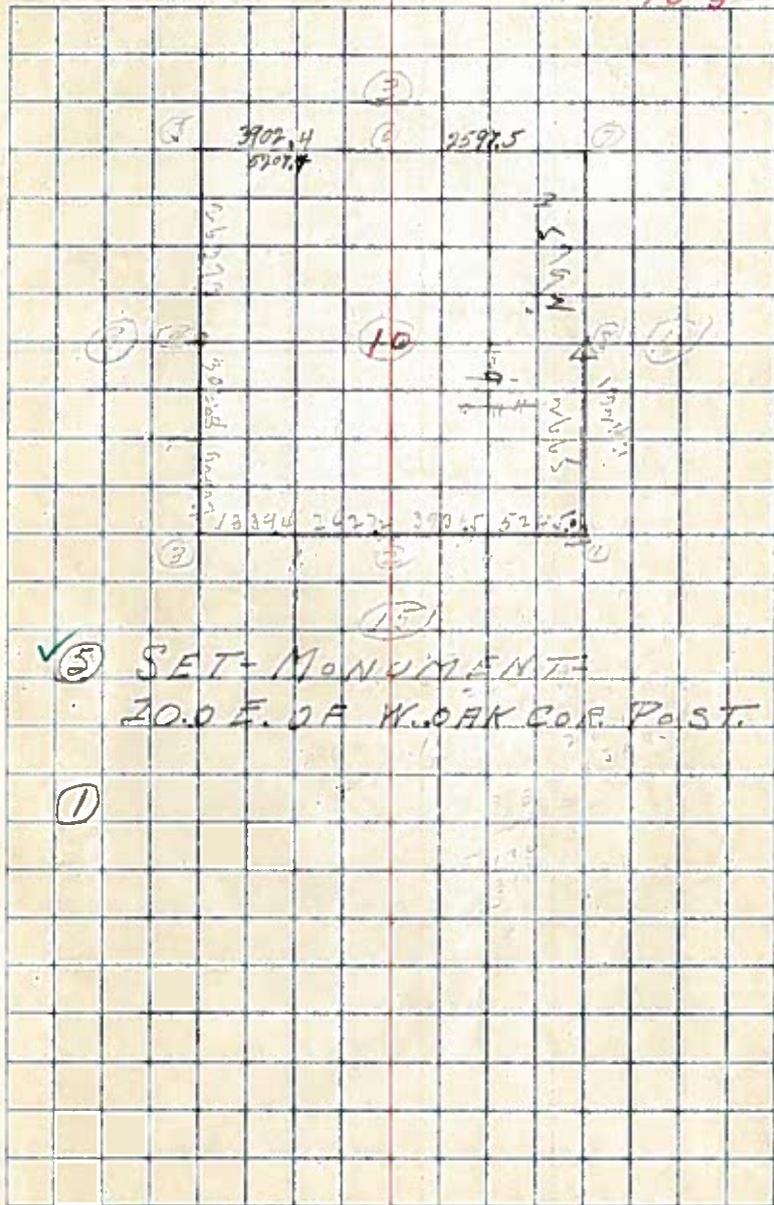
FOUND IRON PIN

⑥ ✓ SET MONUMENT SET ON SOUTH SIDE OF POST  
 INTERSECTION OF FENCE RUNNING SOUTH WITH  
 FENCE RUNNING E+W.

⑧ ✓ SET MONUMENT FOUND STONE  
 24.1 NW TO 20" W. OAK  
 49.3 SW TO 24" W. OAK

② ✓ SET MONUMENT  
 AT E+W+S FENCE-LINES

③ ✓ SET-MONUMENT  
 35.6 W. TO CORNER POST  
 372.9 S. TO N. END OF R.R. BRIDGE



⑤ ✓ SET-MONUMENT  
 20.0 E. OF W. OAK COR. POST.

①

⑧ SET MONUMENT FOUND END IRON  
 488 NW TO 10" WELN HT  
 1053 SW TO POWER POLE  
 467 NE TO COR POST

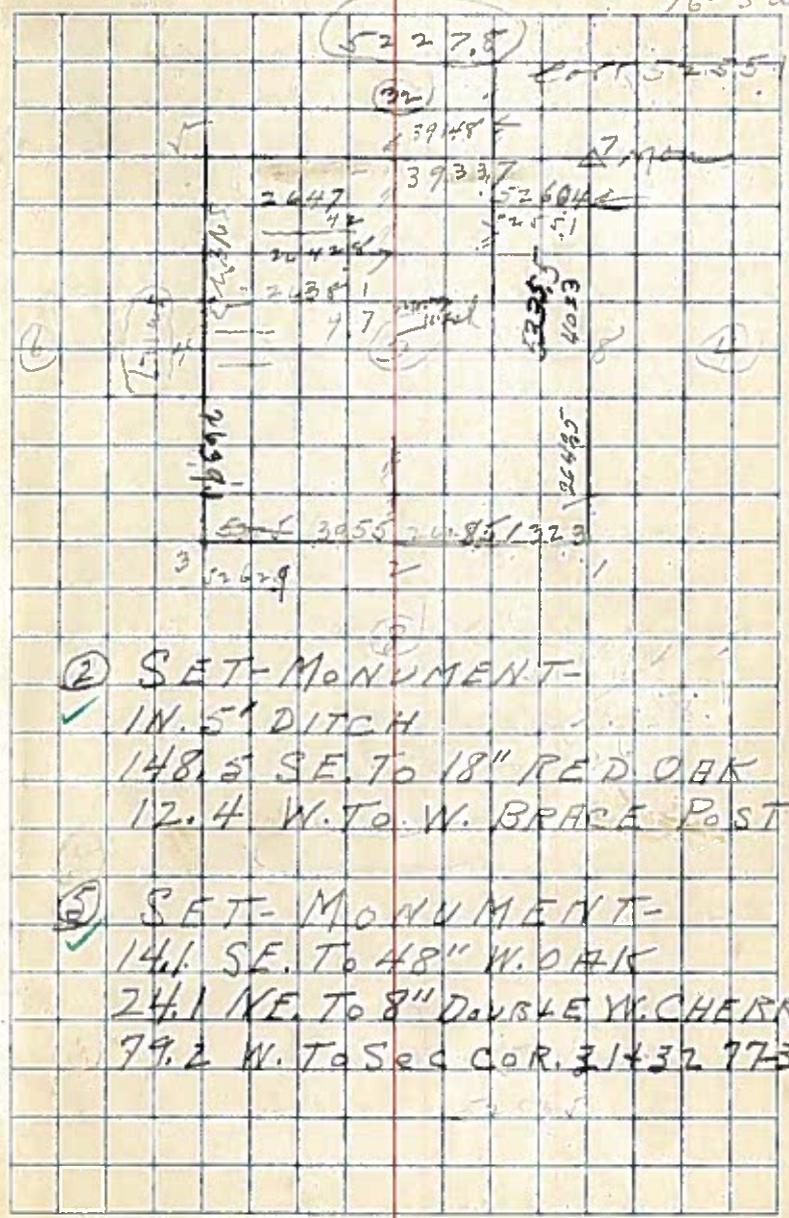
④ SET MONUMENT  
 113.5 NW TO POWER POLE  
 333 W TO 10" W.O. COR POST

④ SET MONUMENT  
 1092 NE TO 36" ELM  
 397 NE TO CONCRETE POST  
 52.0 SW TO POWER POLE

⑦ SET MONUMENT  
 22.5 EAST TO 6" CONCRETE  
 27.1 N/E TO 12" W OAK POST  
 48 W. TO 14" W OAK POST W *cut line*

③ SET MONUMENT  
 10.5 SE TO 20" W. OAK  
 8.9 SW TO 18" ELM  
 41.6 NE TO 20" W OAK

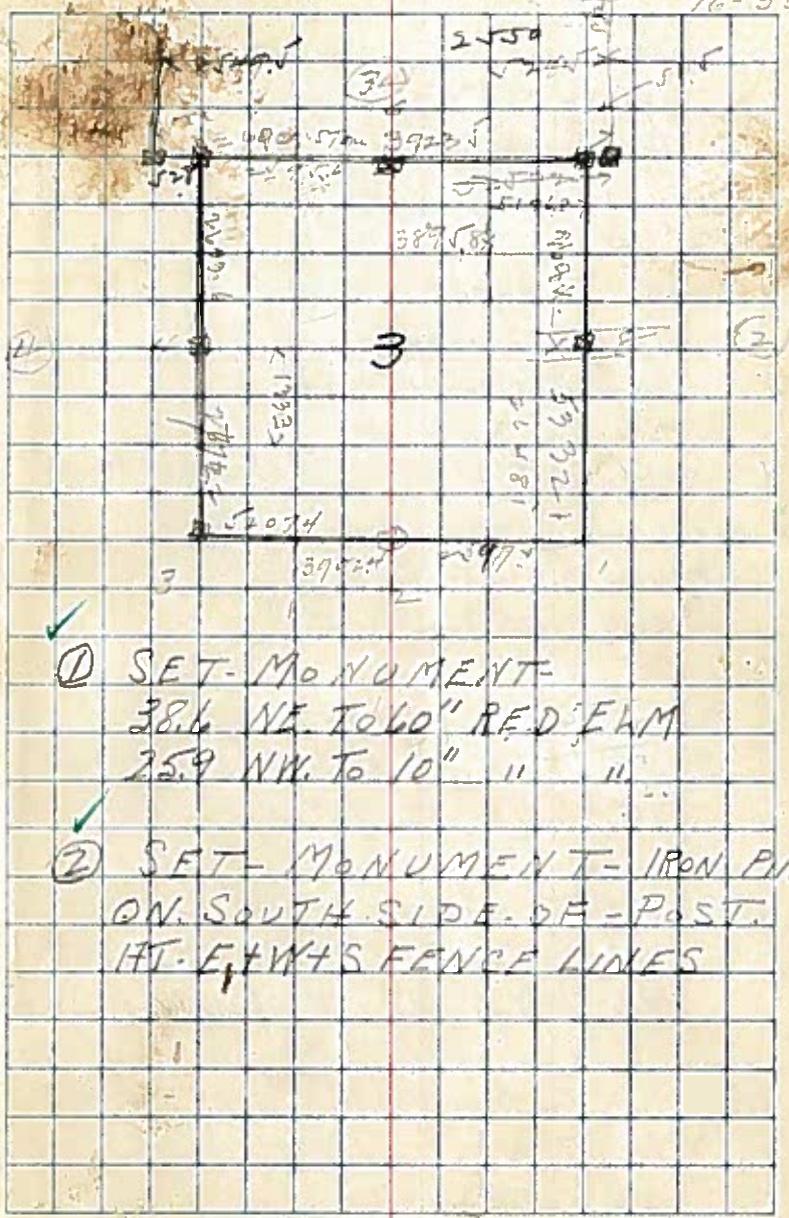
⑥ SET MONUMENT ON LINE *with side* *concrete*  
 46" W. OAK Post *post*  
 53.1 W TO MON S 1/4 COR SEC 34



② SET-MONUMENT-  
 IN 5' DITCH  
 148.5 SE TO 18" RED OAK  
 12.4 W. TO W. BRACE POST

⑤ SET-MONUMENT-  
 14.1 SE TO 48" W. OAK  
 24.1 NE TO 8" DOUBLE Y. CHERRY  
 79.2 W. TO SEC COR. 31 & 32 77-3 W.

- ⑧ ✓ SET MONUMENT  
84.3 N. W. TO 20" BUR OAK  
98.3 N.W. 12" DOUBLE WILD CHERRY
- ⑫ ✓ SET MONUMENT - ON STONE  
42.5 N.E. TO SOUTH WING EAST END OF CURVE  
37.0 S.E. TO POWER POLE  
20.9 N.W. TO TEL. POLE
- ⑬ ✓ SET MONUMENT  
20.0 EAST TO W.D. 10' COR. POST
- ⑭ ✓ SET MONUMENT - FOUND STONE  
19.7 S.E. TO POWER POLE  
31.2 S.W. TO COR. POST  
52.8 WEST TO SW. COR. SEC. 34-77-3 W
- ⑮ ✓ SET MONUMENT - FOUND STONE  
103.7 N.E. TO 48" COTTONWOOD  
51.5 EAST TO MONUMENT SE COR. SEC. 34-77-3
- ⑯ ✓ SET MONUMENT  
3.0 NORTH TO 24" WILD CHERRY



- ① ✓ SET-MONUMENT  
38.6 NE. TO 60" RED ELM  
25.9 NW. TO 10" " "
- ② ✓ SET-MONUMENT - IRON PIN  
ON SOUTH SIDE OF POST.  
INT. E. & W. S FENCE LINES



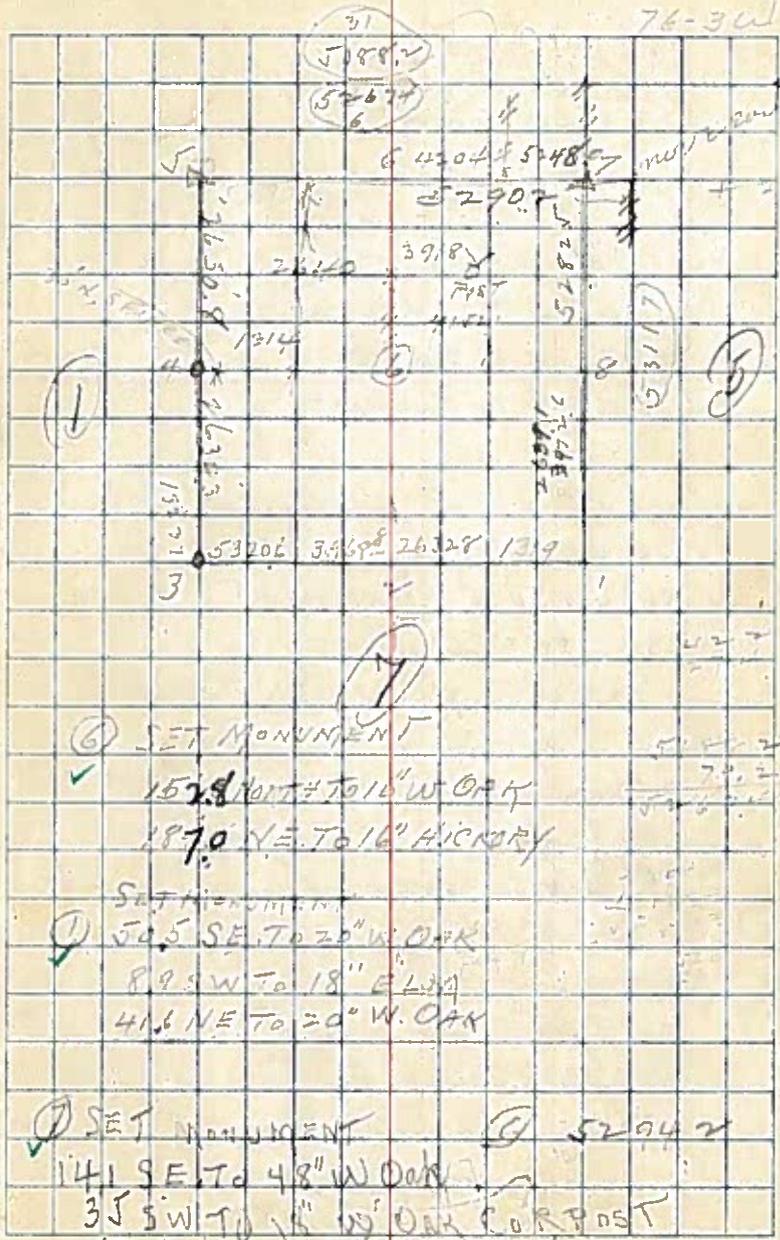
① SET MONUMENT 30' OF S FENCE  
 554 S.E. TO 12" CEDAR  
 59.45 N.E. TO POWER POLE  
 12.0 S.W. TO 18" CATANWOOD

③ SET MONUMENT  
 621 N. TO 24" OAK ELM  
 273 S.E. TO 16" W OAK  
 15.5 N.W. TO 12" BROWNWOOD

④ SET MONUMENT  
 109.2 N.E. TO 36" ELM  
 387 N.E. TO CEMENT POST  
 52.0 S.W. TO POWER POLE

② SET MONUMENT  
 185 N.E. TO W. OAK 18"  
 326 S.E. TO 4" WALNUT  
 87.6 S.E. TO 6" WALNUT  
 12.0 EAST TO C.R. POST

⑤ SET MONUMENTS SET WEST OF C.R. POST  
 23.9 S.W. TO BLACK LOCUST  
 56.4 N.W. TO 6" ELM



⑥ SET MONUMENT  
 152.8 NORT# TO 16" W OAK  
 187.0 N.E. TO 16" HICKORY

① SET MONUMENT  
 50.5 S.E. TO 20" W OAK  
 8.9 S.W. TO 18" ELM  
 41.6 N.E. TO 20" W OAK

⑦ SET MONUMENT ⑧ 5294.2  
 141 S.E. TO 48" W OAK  
 35 S.W. TO 18" W OAK C.R. POST  
 79.2 W. TO C.R. SEC 31+24-17-2  
 24.1 N.E. TO 8" DWARF W CHERRY

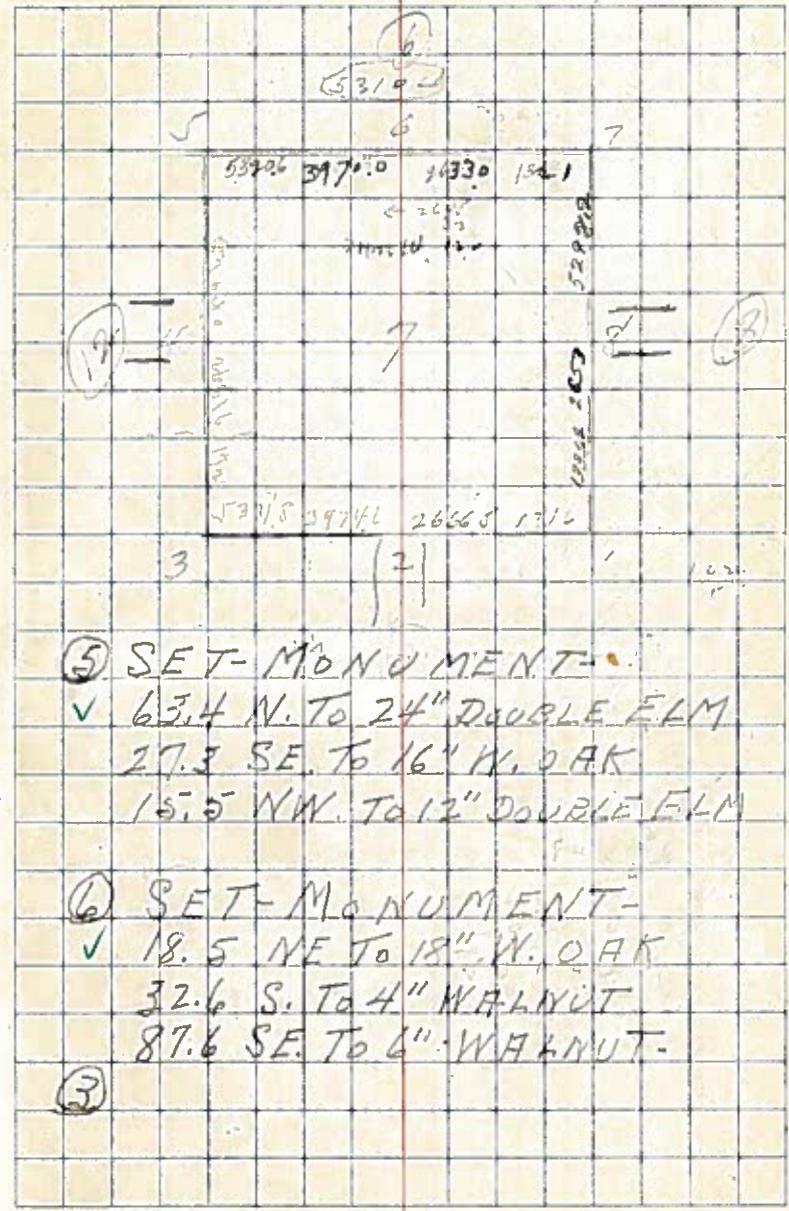
① SET MONUMENT  
 224.2 EAST TO 24" ELM  
 39.3 SW. TO COR POST

② SET MONUMENT FOUND IRON PIN  
 116.0 SE. TO 24" HICKORY  
 81.4 SE. TO TEL POLE  
 36.8 SW. TO COR POST

③ SET MONUMENT FOUND IRON PIN  
 128.1 NE. TO 30" WALNUT  
 86.6 SW. TO 36" HICKORY  
 33.3 N. TO 8" COR POST

④ SET MONUMENT  
 25.4 N. TO COR POST  
 25.1 NW. TO POST WITH BRACE AGAINST

⑦ SET MONUMENT  
 50.5 SE. TO 20" W. OAK  
 8.9 SW. TO 18" ELM  
 41.6 NE. TO 20" W. OAK



⑤ SET-MONUMENT-  
 ✓ 63.4 N. TO 24" DOUBLE ELM  
 27.3 SE. TO 16" W. OAK  
 15.5 NW. TO 12" DOUBLE ELM

⑥ SET-MONUMENT-  
 ✓ 18.5 NE. TO 18" W. OAK  
 32.6 S. TO 4" WALNUT  
 87.6 SE. TO 6" WALNUT.

③

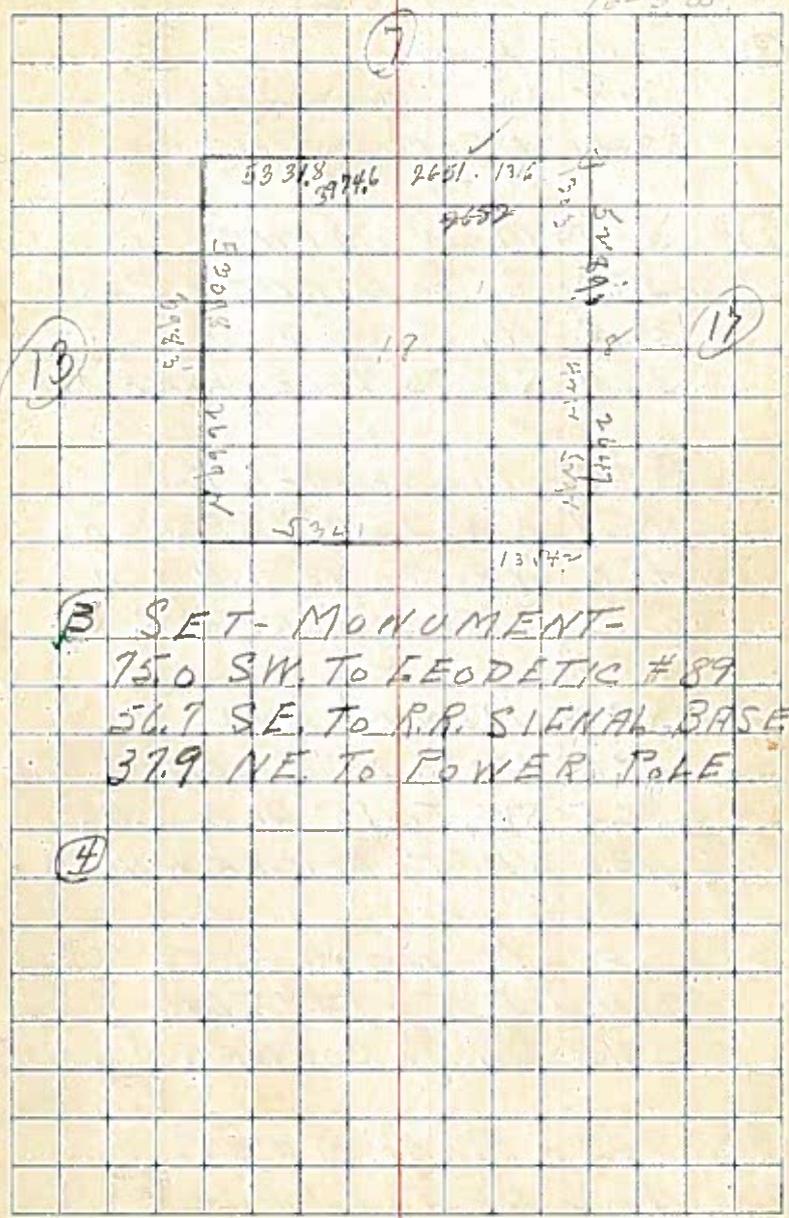
① SET MONUMENT  
 95.7 NW TO 36" RED OAK  
 48.0 NE TO 48" " "  
 35.0 SOUTH TO SOUTH FENCE

② SET MONUMENT  
 49.0 SE TO 20" DOUBLE BUR OAK  
 38.5 SW TO 12" BUR OAK  
 43.0 NE TO P.R. WING POST NAIL CEN

③ SET MONUMENT FOUND STONE ✓  
 224.4 E TO 24" ELM  
 39.3 SW TO COR POST

④ SET-MONUMENT-IRON PIN  
 116.0 SE TO 24" HICKORY  
 81.4 SE TO TELEPHONE PILE  
 36.8 SW TO CORNER POST

⑤ SET-MONUMENT-



③ SET-MONUMENT-  
 75.0 SW TO GEODETIC #89  
 56.7 SE TO P.R. SIGNAL BASE  
 37.9 NE TO POWER POLE

25  
① SET MONUMENT  
95.7 NW TO P-OAK POLE  
33.4 W. TO CORNER POST

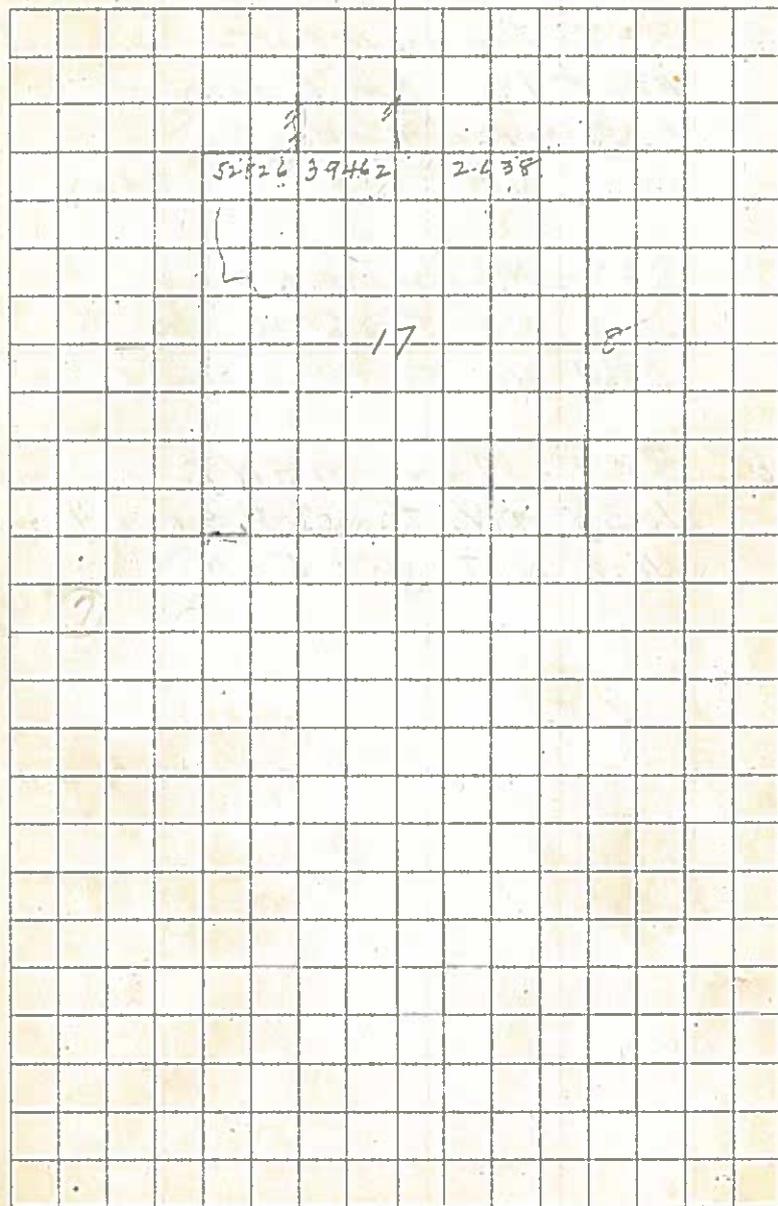
② SET-MONUMENT.  
33.2 S. TO CORNER POST  
32.8 N. TO " "  
36.4 SE TO TELEPHONE POLE

③ SET-MONUMENT-  
95.7 NW. TO 36" RED OAK  
48.0 NE TO 48" " "  
35.0 S. TO S. FENCE.

④ SET-MONUMENT-  
49.0 SE. TO 20" DOUBLE B. OAK  
38.5 SW. TO 12" BURR OAK  
43.0 NE. TO BRIDGE WINE POST.

⑤ SET-MONUMENT-  
224.4 E. TO 24" ELM  
39.3 SW. TO CORNER POST.

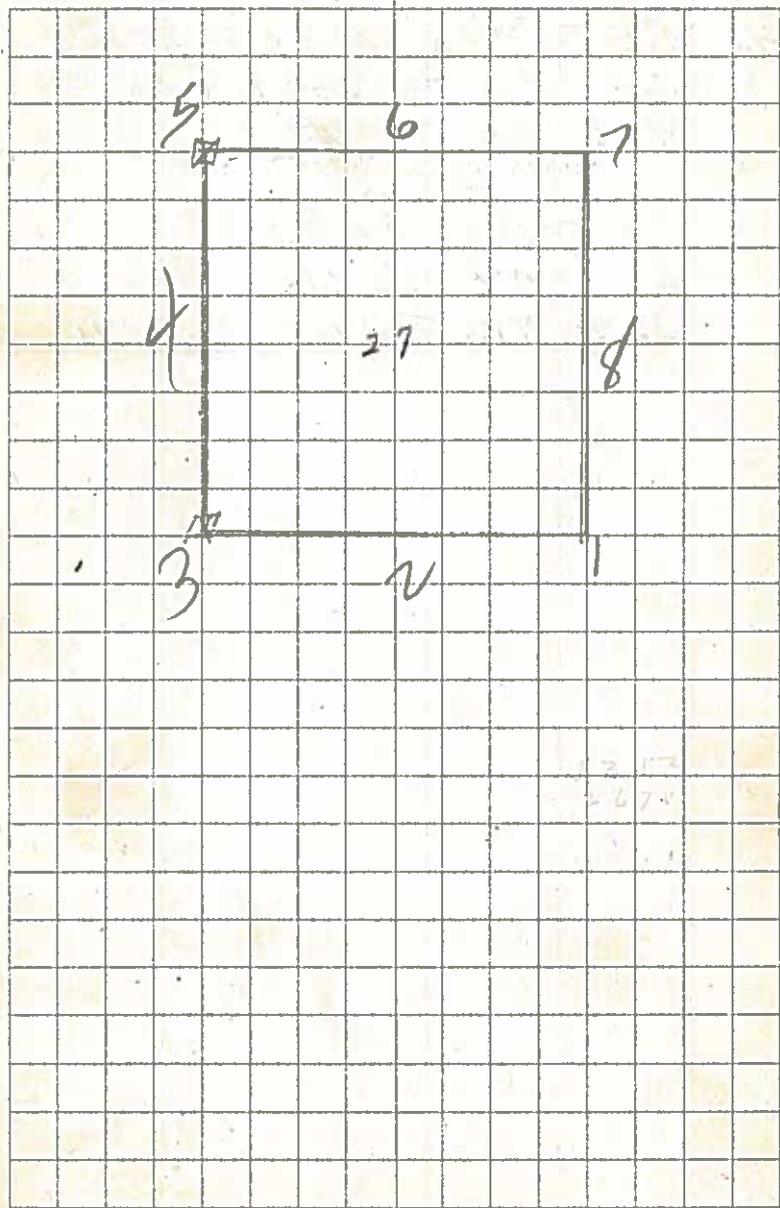
⑥ SET-MONUMENT-  
42.2 NE. TO 14" APPLE  
34.6 SE. TO 30" HARD MAPLE  
36.0 W. TO CORNER POST.



52618  
⑤ SET-MONUMENT-  
RT-E+W FENCE LINE  
E. SIDE-OF-POST-  
181.6 NE. TO 12" HICKORY

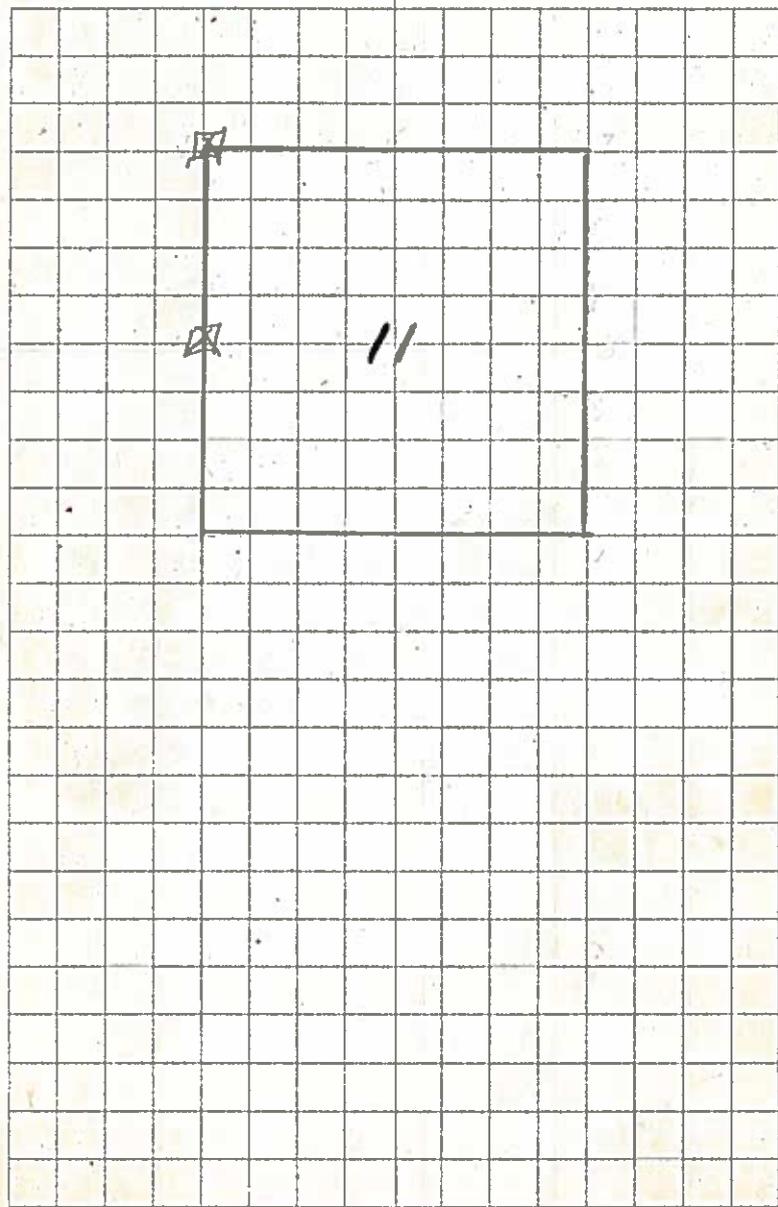
③ SET-MONUMENT-  
12.8 SE. TO 16" W. OAK  
37.4 NE. TO 12" LINN TREE

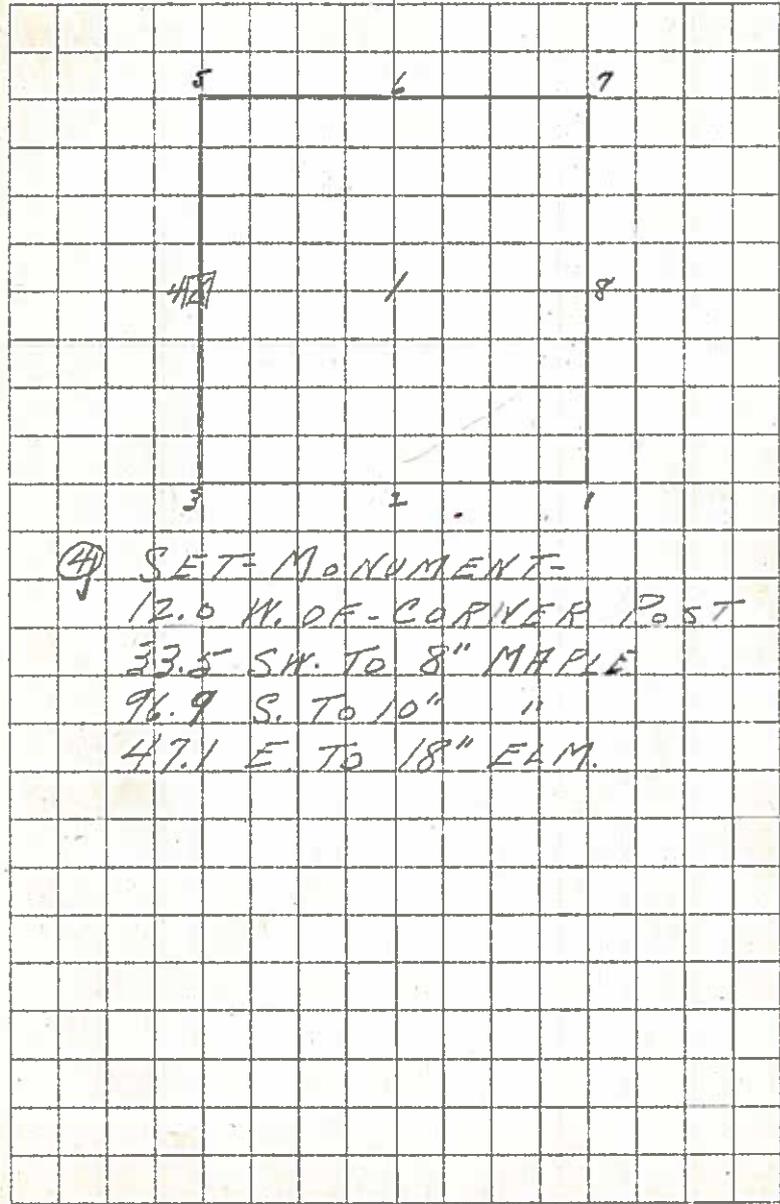
④ SET-MONUMENT.  
103.5 NW. TO 10" HICKORY  
116.8 N. TO 18" ELM



94  
④ SET-MONUMENT-STONE  
24.1 NW TO 20" W. OAK  
49.3 SW. TO 24" " "

⑤ SET-MONUMENT  
38.6 NE. TO 60" RED ELM  
25.9 NW. TO 10" " "





(4) SET MONUMENT-  
 12.0 N. OF-CORNER POST  
 33.5 SW. TO 8" MAPLE  
 96.9 S. TO 10" "  
 47.1 E TO 18" E.M.

53+00 to F Line South

49+940 to TL East cor Sec 22-76-3W

28+00 & Rd Morse

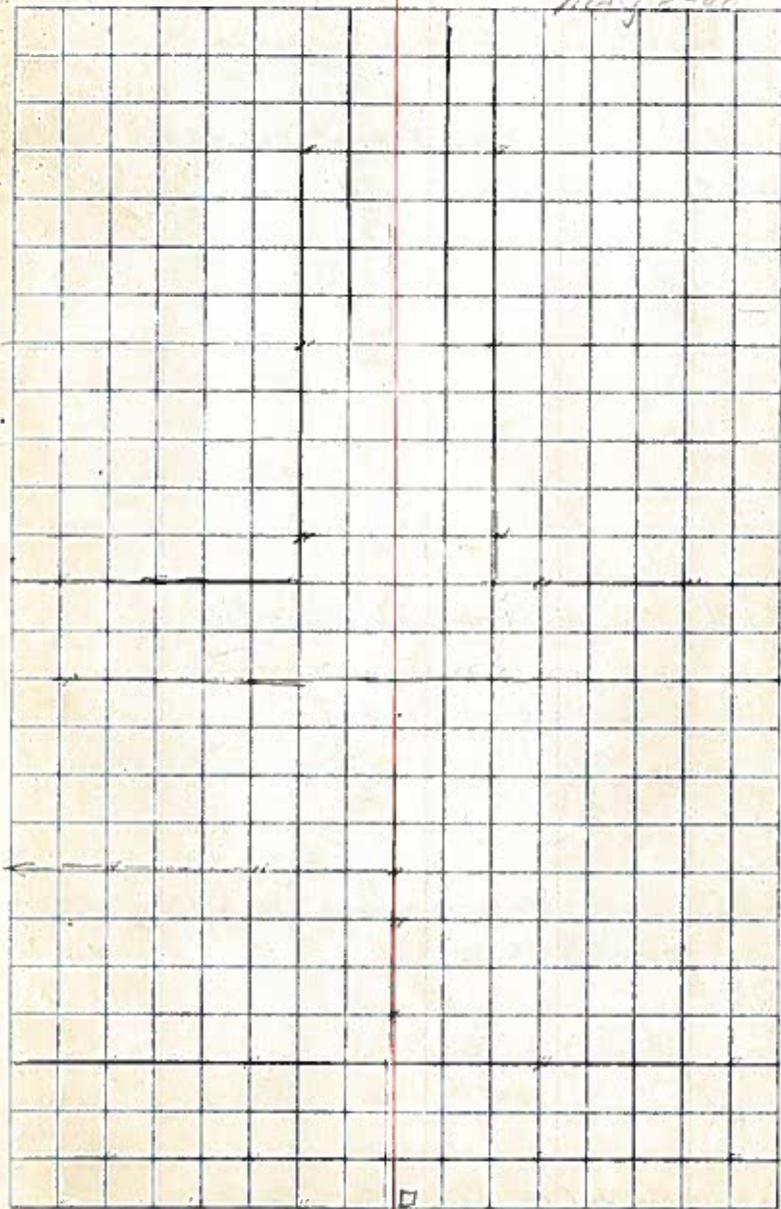
26+40

19+230 Fence Line North

0+00 NE W cor Sec 22-76-3W

(East)

July 2-40



MONUMENT

52+80.0' Set Hub S. E. Cor Sec 22

51+83.0 Found Hub From North. 49+86.5'

49+88.0' Fence North

29+96.0 E. of Road N. & South

26+40.0' Set Hub

25+91 - Dig 3.7' So.

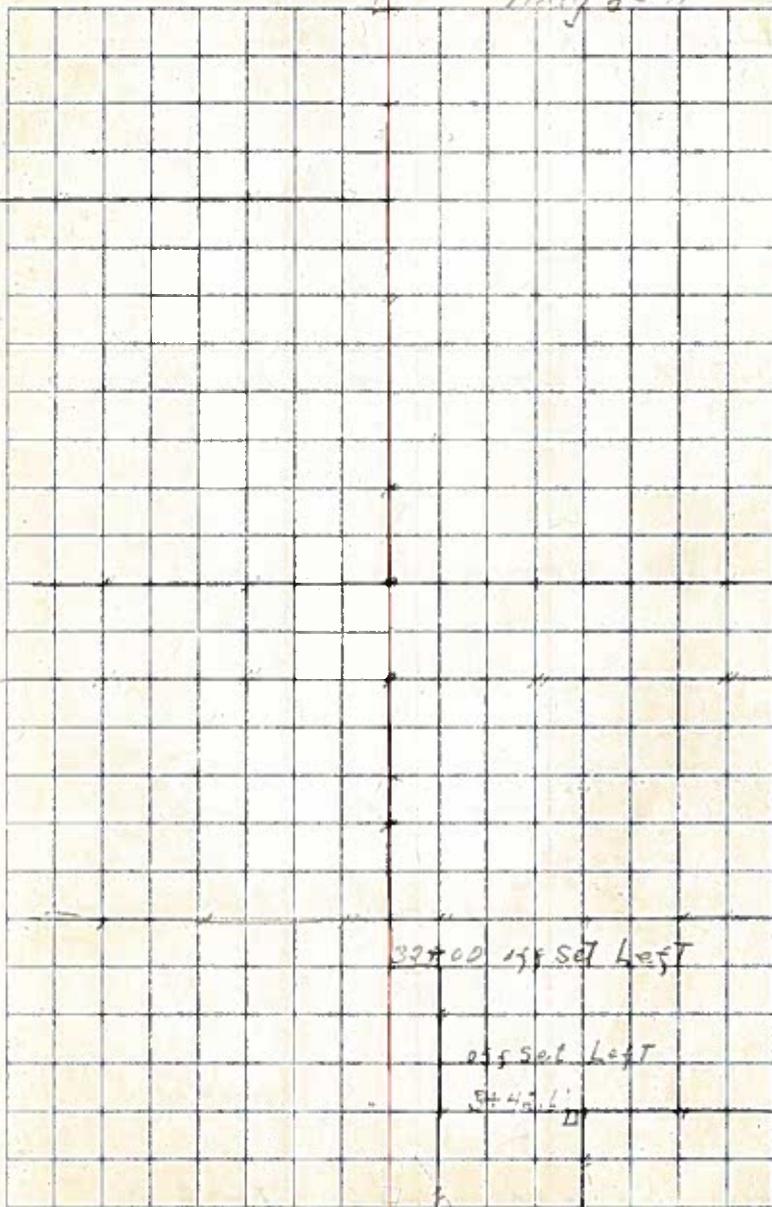
12+90.0' To Fence Line N. & S.

0+0.0 S. W. Cor Sec 22 - 76-3 W

(EAST)

F

May 8-41



monument

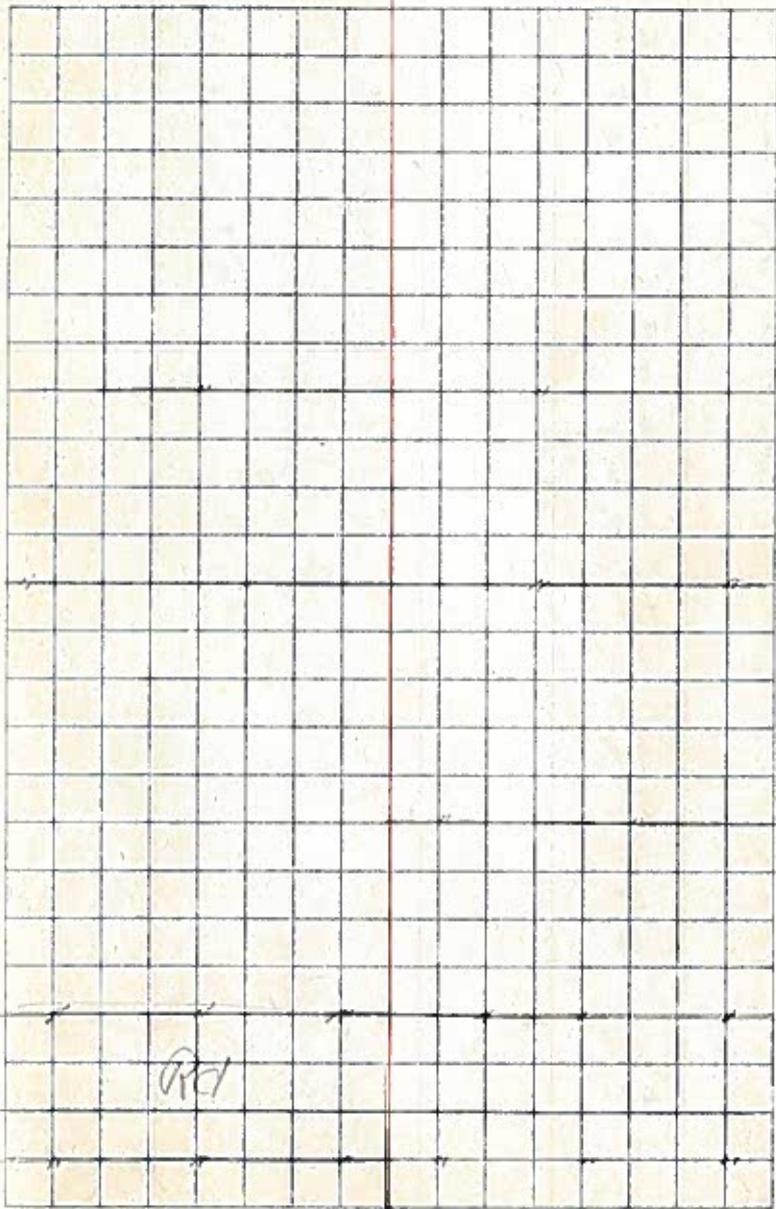
53+76 E Rd No 9 South

40+279' Fence Line No 9 S

26+837' Fence Line No 9 S

17+312' Fence North

0+00 So W. Cor. Sec 22, -76-3 W  
(West)





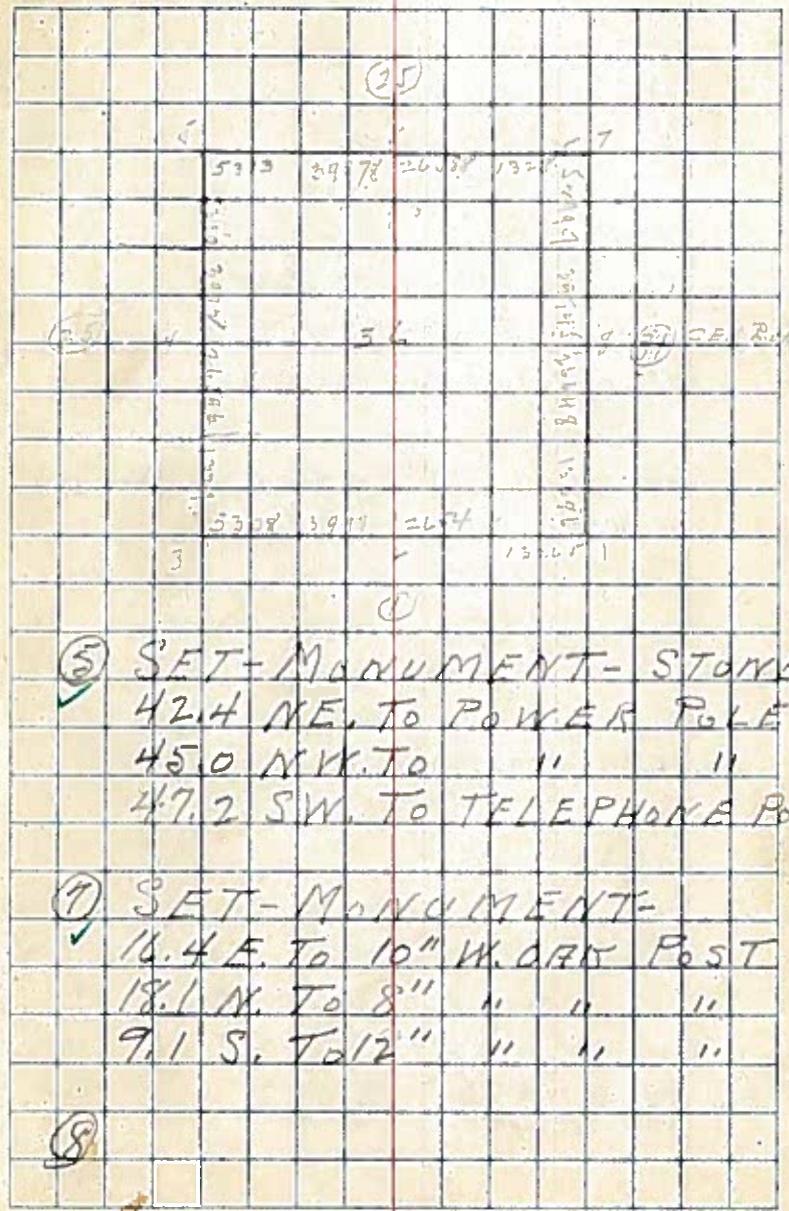
① SET MONUMENT  
 (ON NORTH SIDE OF CORNER POST)  
 LINE DEFENSE RUNNING NORTH  
 182.0 N. TO 18" TREE

② SET MONUMENT FOUND STONE  
 EAST SIDE CORNER POST

③ SET MONUMENT AT FENCE INTERSECTION  
 NO OTHER TIES  
 87.2 W. TO POST  
 21.2 SW TO HEDGE BRACE POST  
 17.6 W. TO 12" COR. POST QUINSE

③ SET MONUMENT  
 54.9 W. TO CORNER POST FENCE RUNNING SOUTH  
 82.2 NW TO TEL. POLE  
 31.0 NE TO POWER POLE

④ SET MONUMENT. STONE  
 33.5 W. TO CORNER POST  
 64.5 SW TO TELEPHONE POLE  
 187.0 SE TO POWER POLE



⑤ SET-MONUMENT-STONE  
 42.4 NE. TO POWER POLE  
 45.0 NW. TO " "  
 47.2 SW. TO TELEPHONE POLE

⑦ SET-MONUMENT-  
 16.4 E. TO 10" W. CORNER POST  
 18.1 N. TO 8" " " "  
 9.1 S. TO 12" " " "

⑧



CENSEC SET MONUMENT FOUND STONE

1558 SE TO 24" PINE  
 2445 So TO Cor POST  
 266 N TO TILE CONCRETE POST  
 917 SW TO 18" ELN

(4) SET MONUMENT

120.4 SE TO 24" OAK TREE  
 3385 W TO Oak POST  
 4070 NE Oak POST

(1) SET MONUMENT

16.4 E. TO 10" W. O. POST  
 19.1 N TO 8" W. O. POST  
 91.5 TO 12" W. O. POST

(2) SET MONUMENT FENCE INTERSECTION  
 NO OTHER TIES

(6) SET-MONUMENT-STONE  
 S. EDGE-OF-CONCRETE-CORNER  
 POST-NO-OTHER-TIES

(7) SET-MONUMENT-  
 156.6 W. TO 18" BURR OAK  
 24.15 SW. TO CONCRETE POST  
 63.4 NW. TO POWER POLE

(5297)

(24)



(3) SET-MONUMENT-STONE  
 42.4 NE. TO POWER POLE  
 45.0 NW. TO do  
 47.2 SW. TO TELEPHONE POLE

(5) SET-MONUMENT-  
 60.9 SE. TO 30" RED OAK  
 38.6 NE. TO TELEPHONE POLE  
 39.3 NW. TO CORNER POST

(8) SET-MONUMENTS  
 32.6 NW. TO CONCRETE POST  
 31.2 SE. TO GEOD #37  
 36.0 NE. TO POWER POLE





40  
⑧ ✓ SET MONUMENT FOUND STONE  
18 N. TO CORNER POST

⑥ ✓ SET MONUMENT SOUTH SIDE CORNER POST  
296 NW TO 18" HICKORY

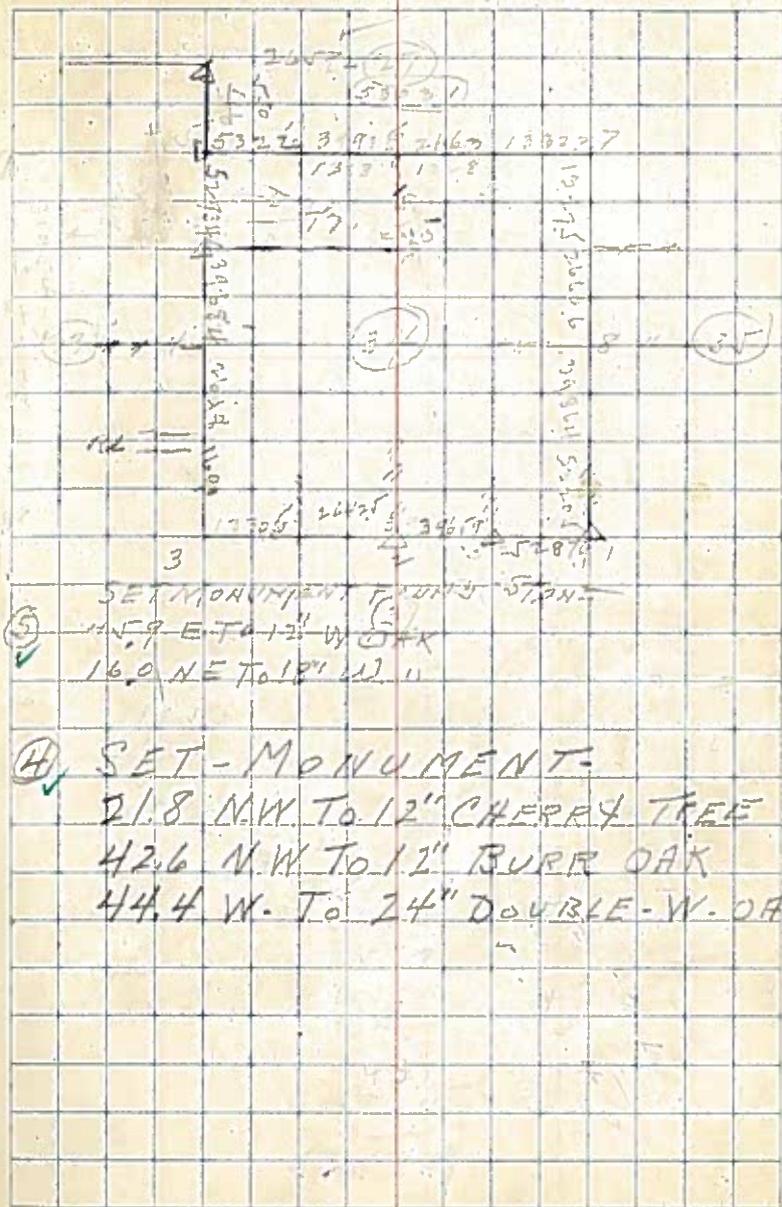
⑦ ✓ SET MONUMENT  
282 W TO POWER POLE  
425 NW TO " " QUAIL  
3215 SW TO 8" POST TO S SIDE OF  
SOUTH GATE

④ ✓ SET MONUMENT  
3915 NE TO 10" WILLOW  
38.5 E TO 8" W OAK POST

③ ✓ SET MONUMENT 4122 W  
ON LINE WITH FENCE GOING NORTH  
56.8 FE TO FENCE GOING SOUTH

② ✓ SET MONUMENT FOUND STONE  
ON THE LINE GOING NORTH  
31.5 EAST TO FENCE GOING SOUTH  
NO OTHER TIES

76-4W



① SET MONUMENT  
 98.2 EAST TO 20" BIRCH BLAZED  
 102.5 SOUTH TO NW CORNER - EAST BOUNDARY  
 MILWAUKEE RY BRIDGE  
 112.4 NW TO CORNER OF ELYS

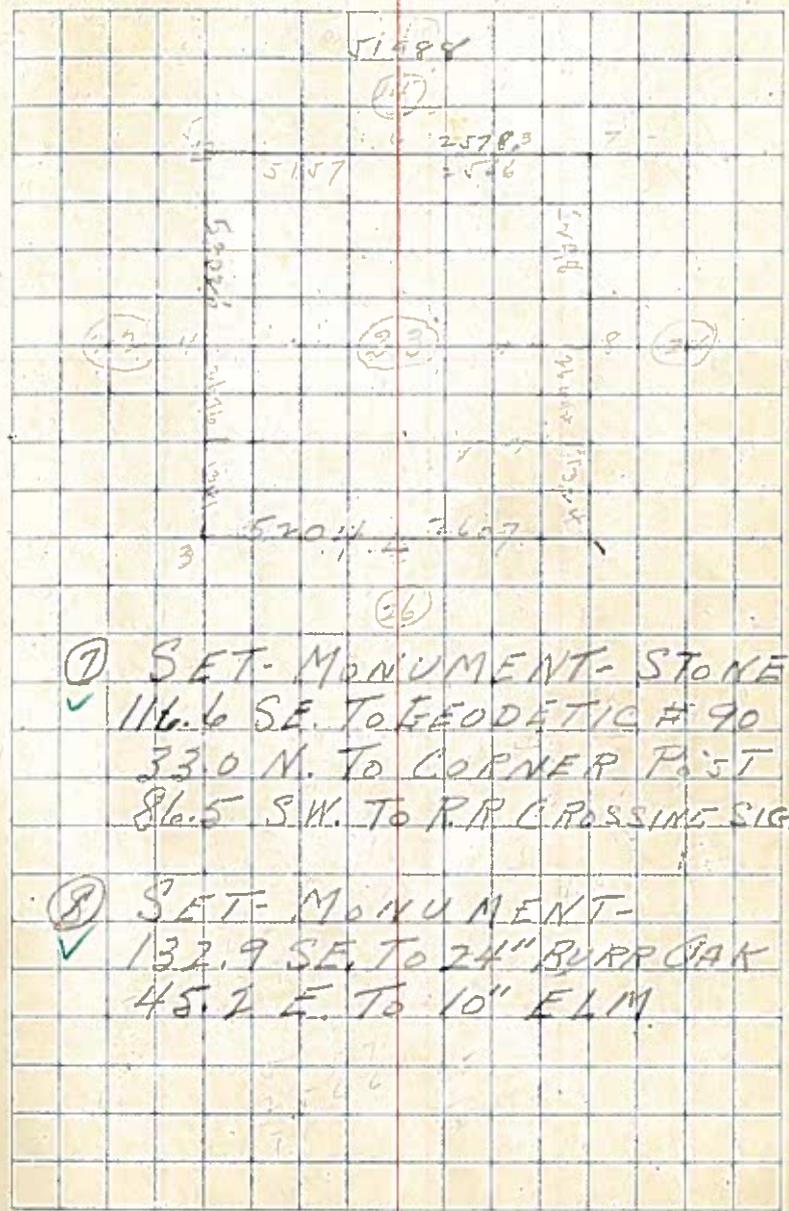
✓ SET MONUMENT  
 60.9 SE TO 30" RED OAK  
 38.6 W TO TEL POLE  
 39.3 NW TO COR POST  
 75.5 S TO DOUBLE FURN 14"

② SET MONUMENT FOUND STONE  
 ON NORTH SIDE OF COR POST SOUTH SIDE OF LANE

③ SET MONUMENT  
 90.5 SW TO 18" BLAZED LLM  
 72.0 SW TO 30" RED OAK

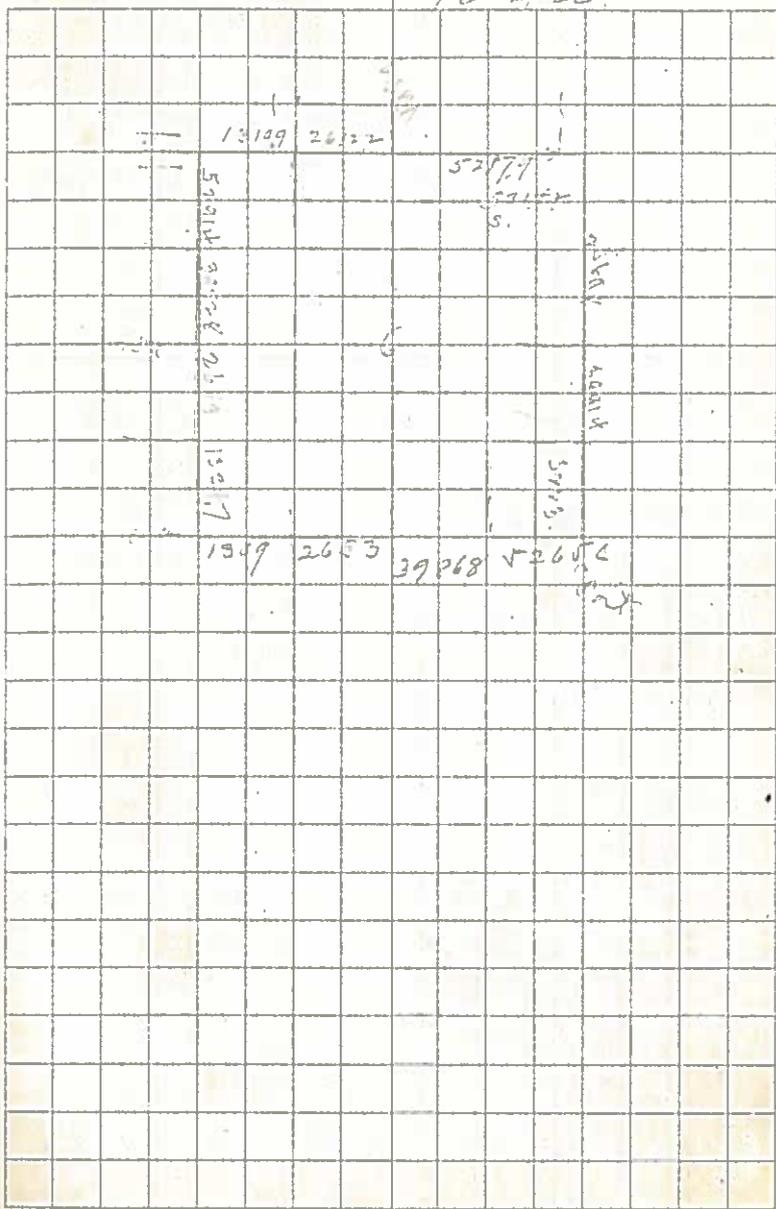
④ SET MONUMENT  
 41.0 To GEODETIC No-70-  
 100.5 SW TO 24" TRIPLE ELM  
 39.3 NW TO COR POST

⑤ SET MONUMENT ON W SIDE COR POST  
 110.5 W TO 36" W OAK  
 18.7 E TO 16" BLACK OAK  
 37.4 N TO 24" LINN



① SET-MONUMENT-STONE  
 ✓ 116.6 SE. TO GEODETIC # 90  
 33.0 N. TO CORNER POST  
 86.5 SW. TO R.R. CROSSING SIGN.

② SET-MONUMENT-  
 ✓ 132.9 SE. TO 24" BURR OAK  
 45.2 E. TO 10" ELM



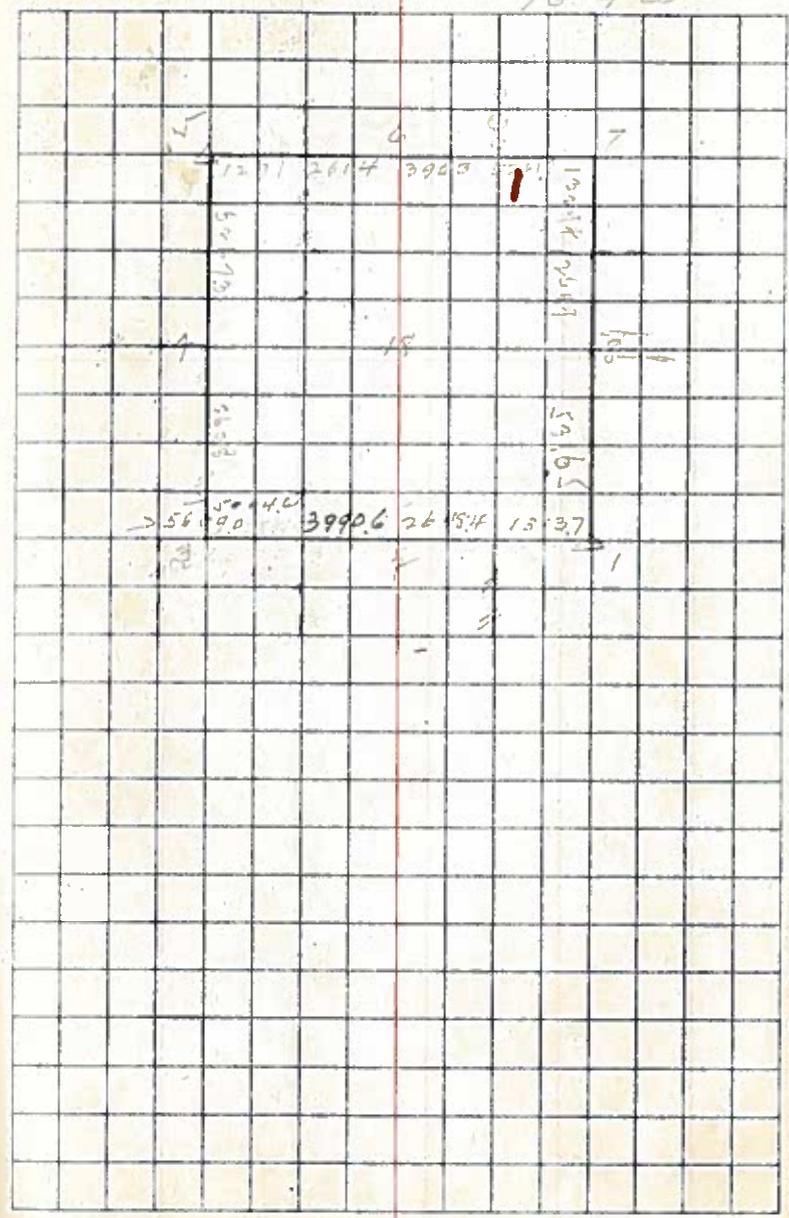






18 18 1/2 N of CEN. CROSSING INSIDE ST  
 26 E " " " " " "

(8)





⑧ ✓ SET MONUMENT 30' N OF SOUTH FENCE  
 35.4 S E TO 12" PINE TREE  
 50.5 NE TO PINE TREE POLE  
 62.0 S W TO 12" CATTANWOOD

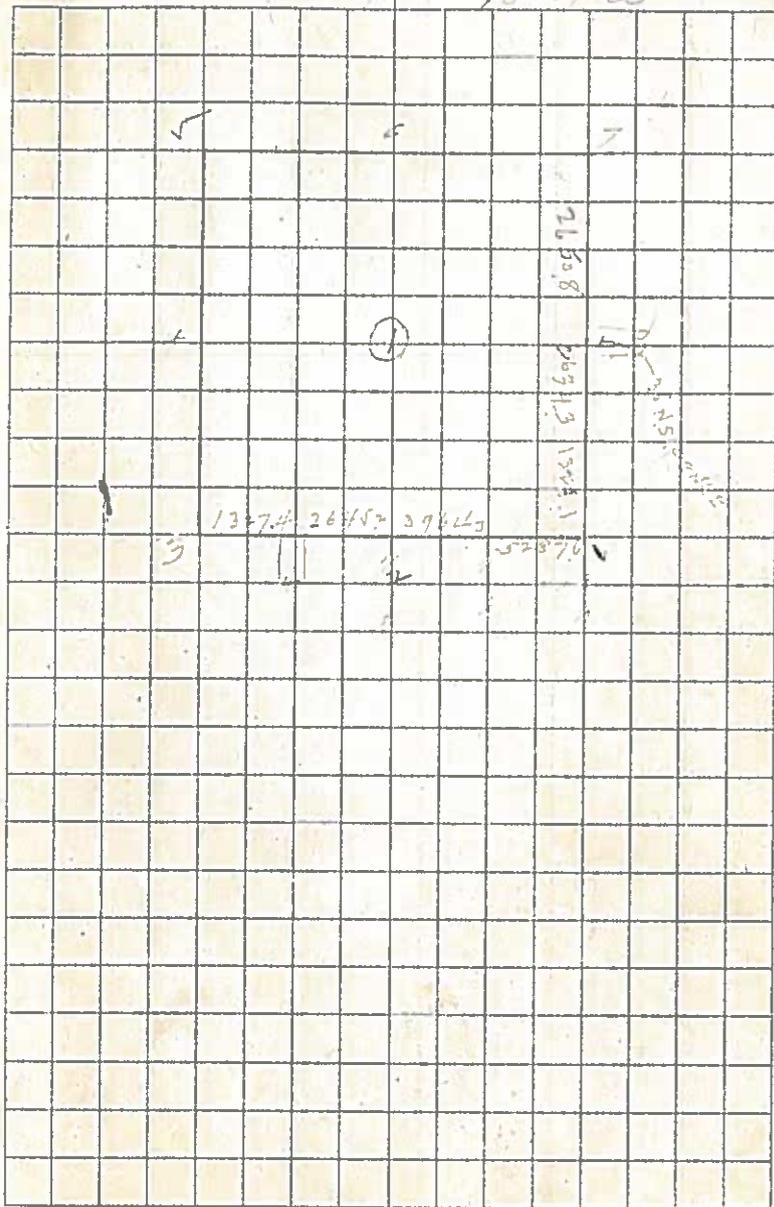
① ✓ SET MONUMENT  
 63.5 N. TO 12" DOUBLE ELM  
 27.3 S E TO 16" W OAK  
 15.5 NW TO 12" DOUBLE ELM

② SET-MONUMENT-  
 96.6 NE TO 8" BURR OAK  
 215.7 N. TO 18" BURR OAK.

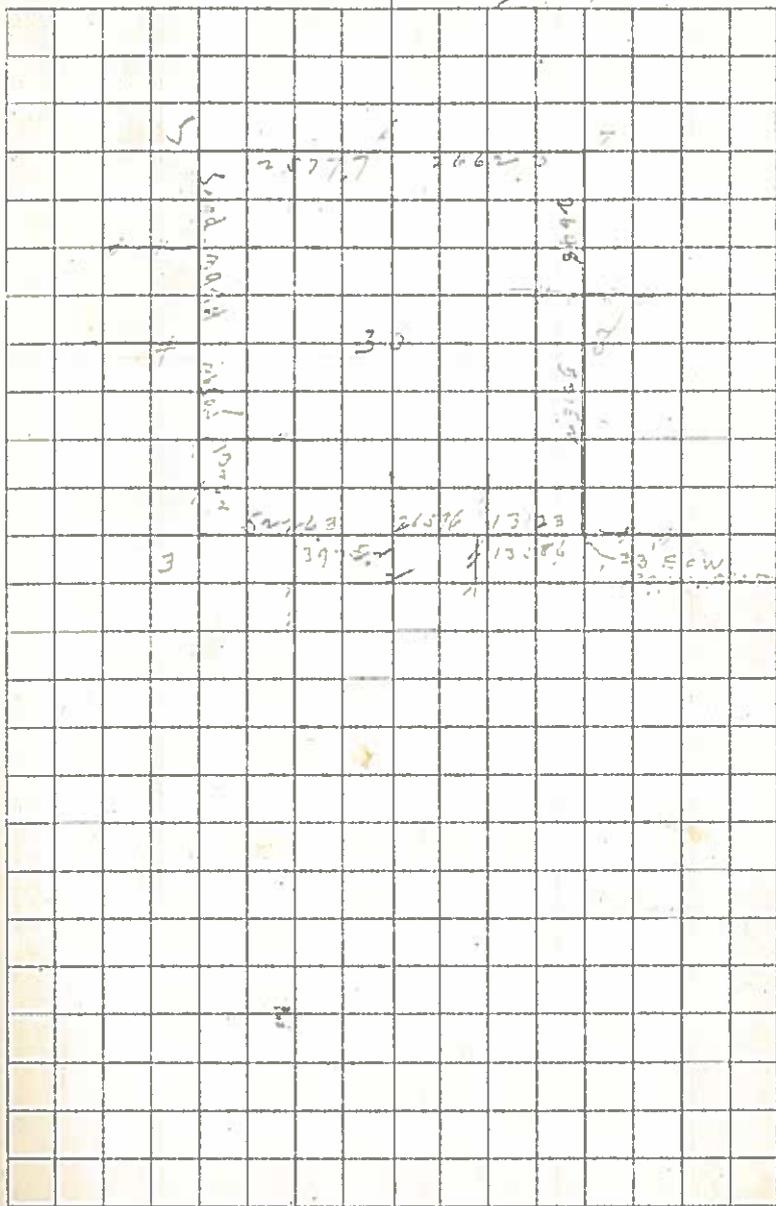
③ ✓ SET-MONUMENT-  
 112.5 N. TO 8" CATALPA  
 48.5 NW. TO TELEPHONE POLE  
 138.1 NE. TO " "

④ SET-MONUMENT-  
 SET-W. OF-CORNER-POST.  
 23.9 SW TO 12" BLACK LOCUST  
 56.4 NW. TO 6" ELM

76-4 W













1918.4 2027.5 3957.5

5821.7

2654

3

2

1

③ SET MONUMENT FOUND STONE  
 116.6 SE TO GEODETIC MARKER 70-90  
 33.0 N TO CORNER POST  
 86.5 SW TO REXING POST

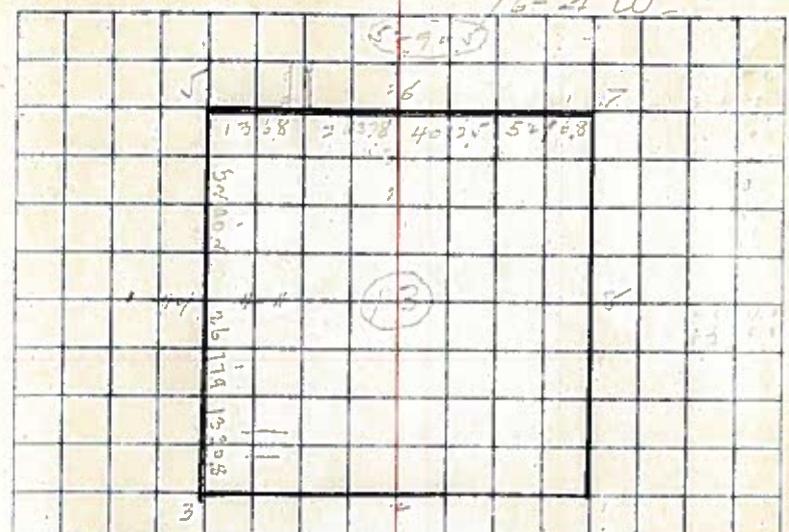
⑧ SET MONUMENT  
 85.1 SW TO 20" OAK  
 23.8 NW TO POWER POLE  
 20.3 N TO COR POST

⑤ SET MONUMENT So. SIDE FENCE RUNNING  
 NORTH

⑦ SET MONUMENT  
 14.0 SE TO 10" WHITE OAK  
 27.7 NW TO 30" " "

④ SET MONUMENT  
 5.4 W TO 14" WALNUT  
 26.2 NW TO 14" WALNUT  
 81.5 NE TO 3" BELM

⑥ SET MONUMENT  
 11.6 SE TO 3" BLACK OAK  
 53.4 SE TO 12" BLACK OAK  
 50.6 SE TO DOUBLE BLACK 11"



① SET-MONUMENT  
 75.2 SW TO GEODETIC #89  
 56.7 SE TO SIGNAL BASE  
 37.9 NE TO POWER POLE (ANCHOR)

② SET-MONUMENT  
 33.0 S. OF-CORNER POST  
 54.9 NE TO TELEPHONE POLE  
 73.3 SW TO POWER POLE

62

① ✓ SET MONUMENT  
260 S.W. TO 18" ALBIZIA FLM  
720 S.W. TO 30" RED OAK (PLAZED)

② ✓ SET MONUMENT  
28.2 W TO POWER POLE  
45.5 W TO POWER POLE GUY  
321.5 S.W. TO POST SOUTH SIDE OF GATE

③ ✓ SET MONUMENT SOUTH SIDE POST  
29.6 N.W. TO 18" HICKORY

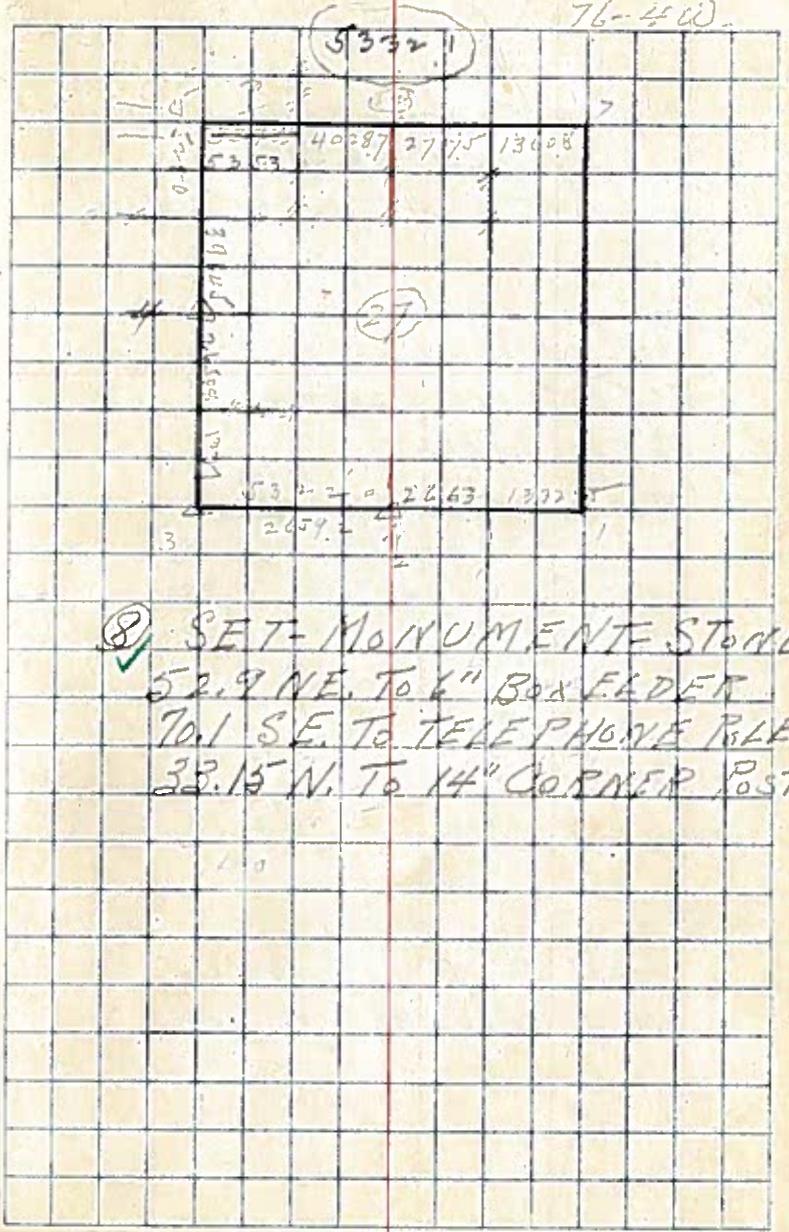
④ ✓ SET MONUMENT FRONT STAIRS  
45.9 E. TO 12" W. OAK  
16.0 NE TO 18" W. OAK

⑤ ✓ SET MONUMENT - FOUND STONE  
295 NE TO 16" W. OAK  
364 NW TO 14" " "  
129 E. TO 28" " "

⑥ ✓ SET MONUMENT  
TO THE HOLE  
888 N.E. TO 24" ELM  
71.2 NE TO 20" ASH  
20.7 N TO COR POST

⑦ ✓ SET MONUMENT 30' WEST OF W BANK CR  
36.5 E OF FENCE DURING SOUTH  
192 N TO 14" OAK  
92 W TO 20" OAK  
126 S TO DRIVE = BLACK COAT

76-4W



⑧ ✓ SET-MONUMENT STONE  
52.9 NE. TO 6" BOX ELDER  
70.1 SE. TO TELEPHONE POLE  
33.15 N. TO 14" CORNER POST

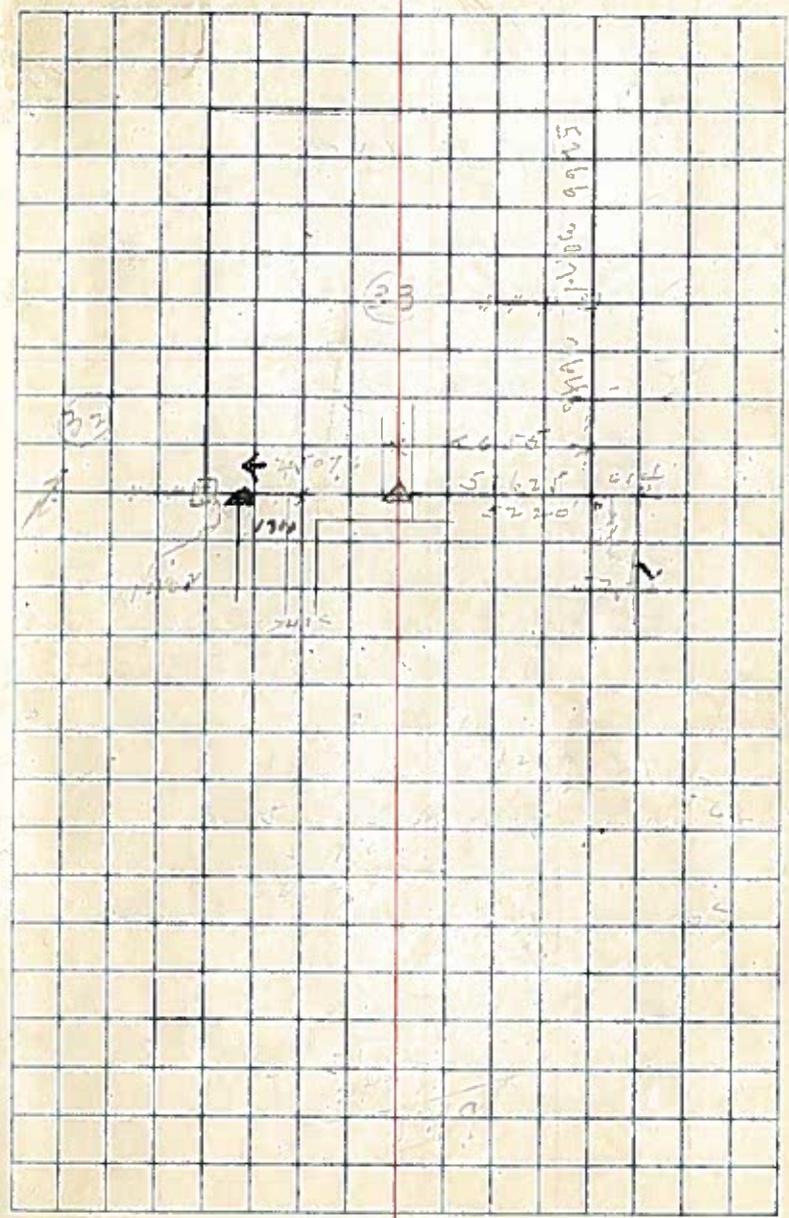
8 ✓ SET MONUMENT  
 218 NW TO 12" CHERRY TREE  
 426 NW TO 12" B. OAK  
 444 W TO 2" DOUBLE W.D.

① ✓ SET MONUMENT  
 ON LINE FENCE NORTH  
 568' E TO FENCE SOUTH

② ✓ SET MONUMENT  
 320 E TO GEOMETRIC - 76-120  
 670 S W TO NINE COR RESIDENCE  
 694 N W TO 14" PINE TREE  
 368 E TO COR POST

3 ✓ SET MONUMENT  
 535 EAST TO 11" OAK  
 732 S W TO 30" W OAK  
 143 E EAST TO YANE STEERIE - (A. N. S. Co)

⑦ ✓ SET MONUMENT - STONE  
 459 E. TO 12" W. OAK  
 16.0 NE. TO 18" W. OAK



✓ SET MONUMENT-

14.9 S.E. TO 10 W OAK

27.7 N.W. TO 30 W OAK

⑤ ✓ SET MONUMENT

112.5 NORTH TO 18" CASTLE

48.5 NW TO TELE POLE

138.1 N.E. TO TELE POLE

71 ✓ SET MONUMENT

63.4 N. TO 24 DOUBLE W OAK

27.3 S.E. TO 16 W OAK

15.5 N.W. TO 12" DOUBLE ELM

⑥ ✓ SET MONUMENT

46.6 N.E. TO 2" BUR OAK

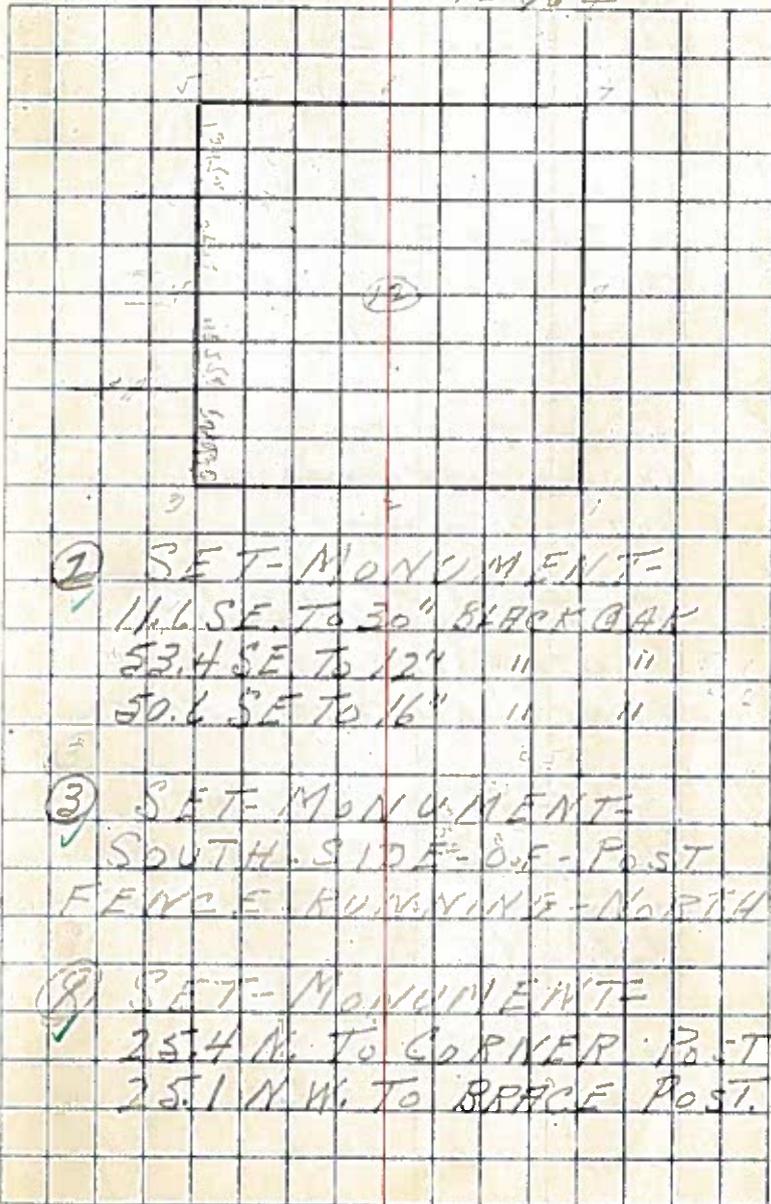
21.7 NORTH TO 18" BUR OAK

4 ✓ SET MONUMENT POUND STONE

54.5 SOUTH TO 30" ELM

58.0 W TO 30 BLACK OAK

63.8 NW TO 12" BLACK OAK



SET MONUMENT - FENCE RUNNING S.

- ⑥ 491 S E TO 18" ELM
- 76.7 N E TO 48" ELM

SET MONUMENT - FENCE STONE

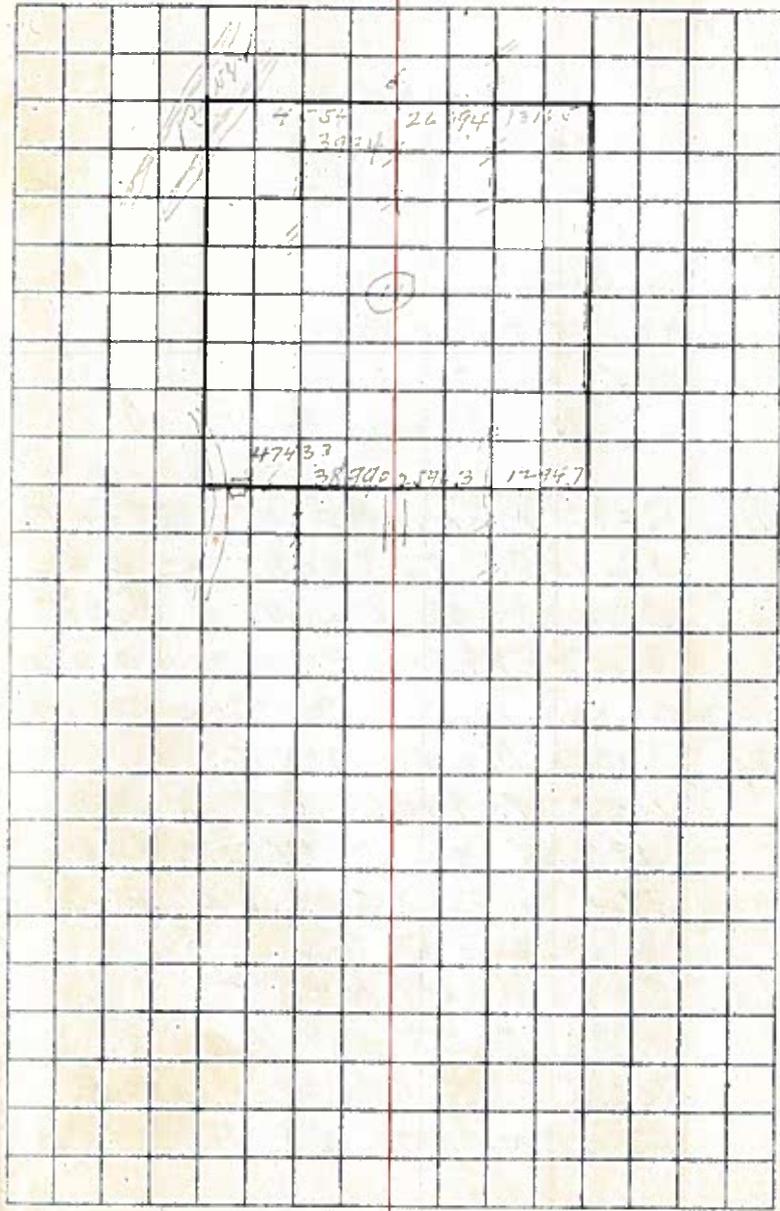
- 54.8 S W TO 30" ELM
- 58.1 W E TO 30" BEECH OAK
- 638.1 N W TO 12" BIRCH OAK

SET MONUMENT

- ② 793 S E TO 16" BEECH OAK
- 621.9 N W TO 20" HUCKLEBERRY
- 227 W TO CORNER

① SET-MONUMENT-  
SOUTH-SIDE-OF-POST  
FENCE-RUNNING NORTH

⑦ SET-MONUMENT-  
112.5 N. TO 18" CATALPHA.  
48.5 N W TO TELEPHONE POLE  
138.1 N E TO " "



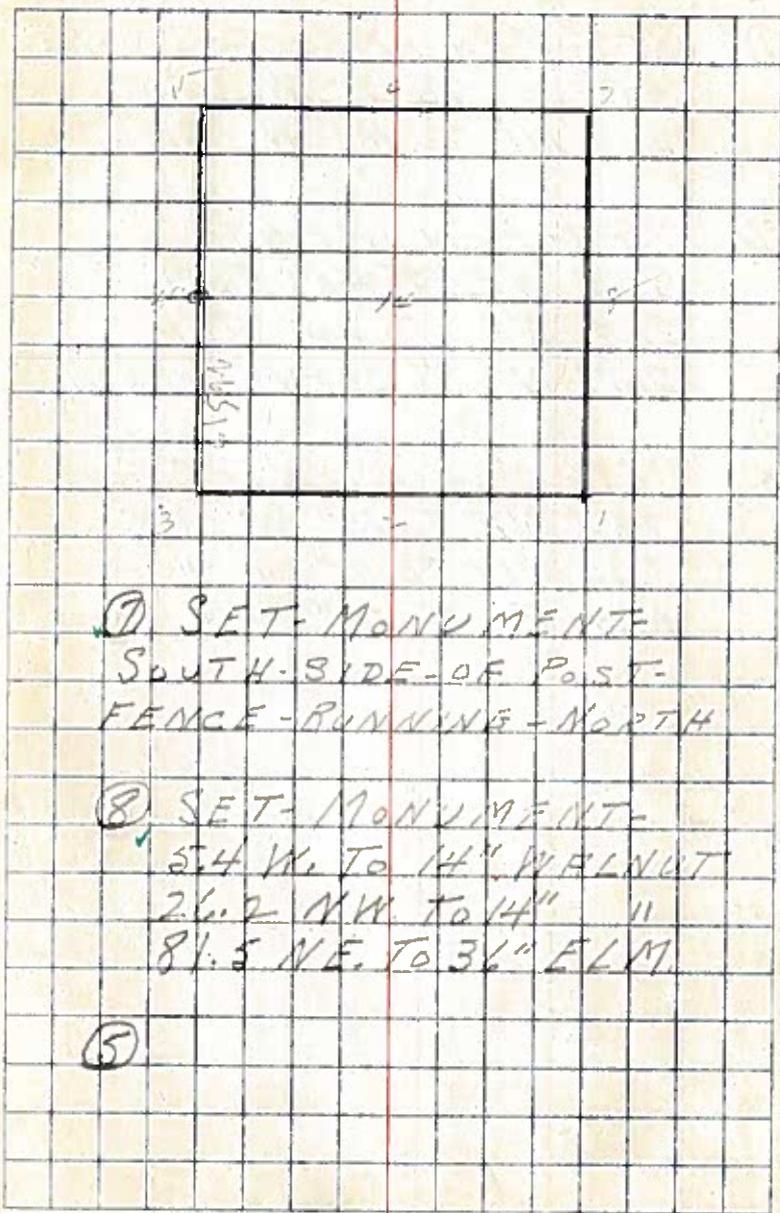
- (6) SET MONUMENT  
 43.3 SE TO 4" OAK POST  
 62.9 NW TO 24" HICK BERRY  
 20.7 W TO CONCRETE POST

- (4) SET MONUMENT  
 33.4 E TO COR POST  
 121.8 NW TO CONCRETE PIER SECOT BARN  
 34.0 WEST TO COR POST

- (1) SET-MONUMENT- STONE  
 116.6 SE TO GEODETIC #90  
 33.0 N. TO CORNER POST  
 86.5 SW. TO R.R. CROSSING SIGN

- (2) SET-MONUMENT-  
 110.5 W. TO 36" W. OAK  
 18.7 E. TO 14" BLACK OAK  
 37.4 N. TO 24" LINN TREE

- (3) SET-MONUMENT-  
 98.2 E. TO 20" BIRCH.  
 162.5 S. TO NW. COR. OF E.  
 ABUTMENT- R.R. BRIDGE



- (7) SET-MONUMENT  
 SOUTH-SIDE-OF POST-  
 FENCE-RUNNING-NORTH

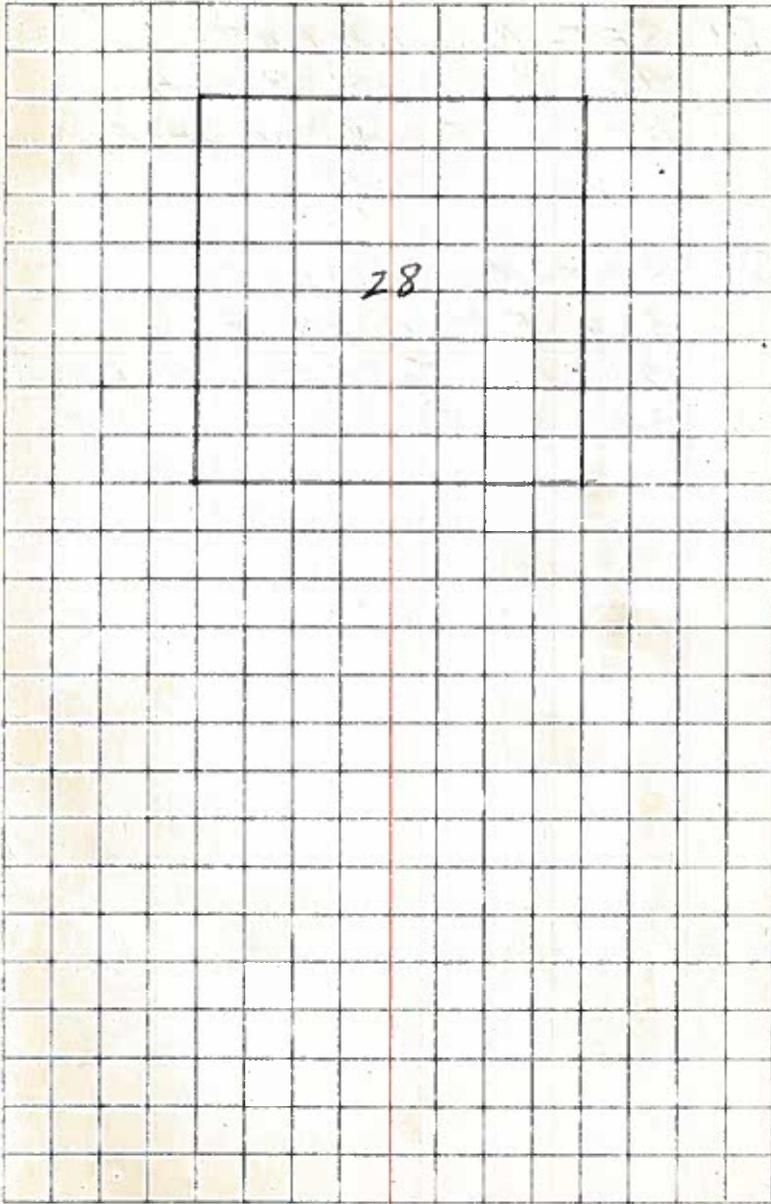
- (8) SET-MONUMENT-  
 5.4 W. TO 14" WALNUT  
 26.2 NW TO 14" "  
 81.5 NE. TO 36" ELM.

(5)

① SET-MONUMENT-STONE  
 45.9 E. TO 12" W. OAK  
 16.0 NE TO 18" W. OAK

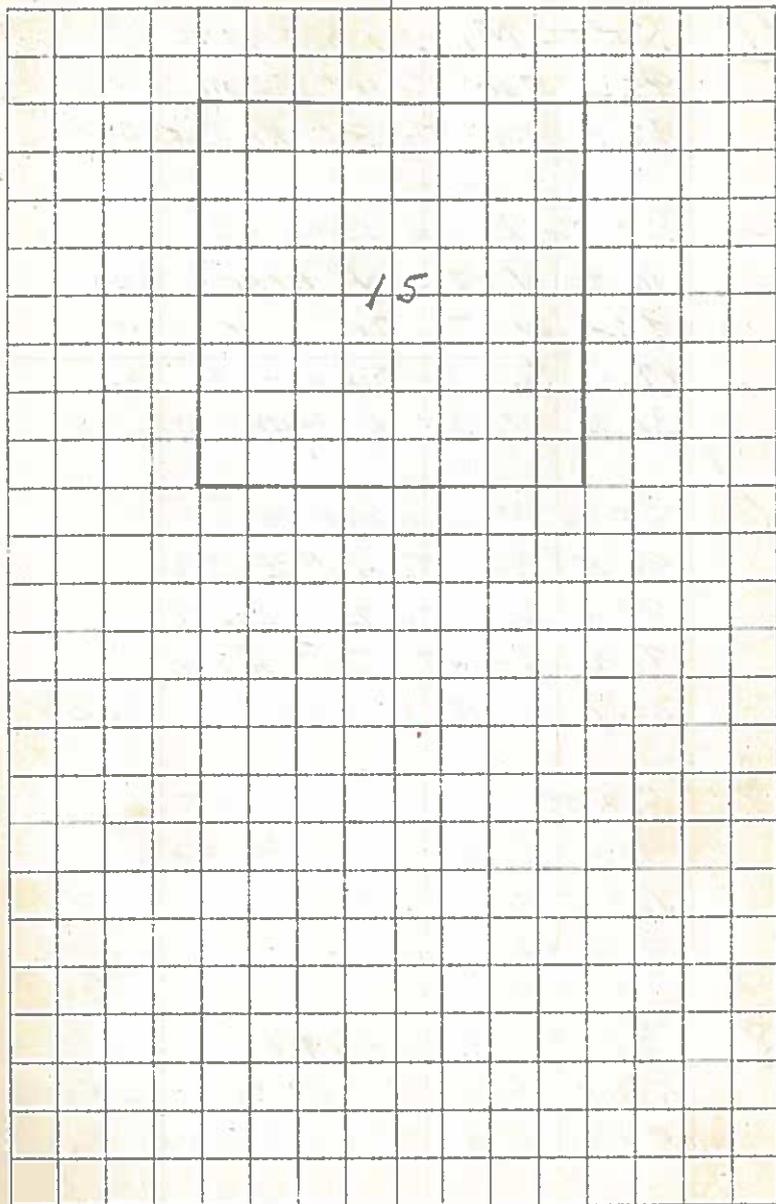
⑦ SET-MONUMENT-  
 90.5 NE. TO 40" ELM  
 71.2 NE TO 20" ASH  
 20.7 N TO CORNER POST

⑧ SET-MONUMENT-STONE  
 29.5 NE. TO 16" W. OAK  
 36.4 NW. TO 16" " "  
 14.9 E. TO 20" " "



(B) SET-MONUMENT-  
 98.2 E. TO 20" BIRCH.  
 162.5 S. TO NW. COR. OF-FAST  
 R.R. ABUTMENT-

(C) SET-MONUMENT-  
 33.4 E. TO CORNER POST  
 124.8 NW. TO SE. COR. OF-BARN  
 34.0 W. TO CORNER POST.



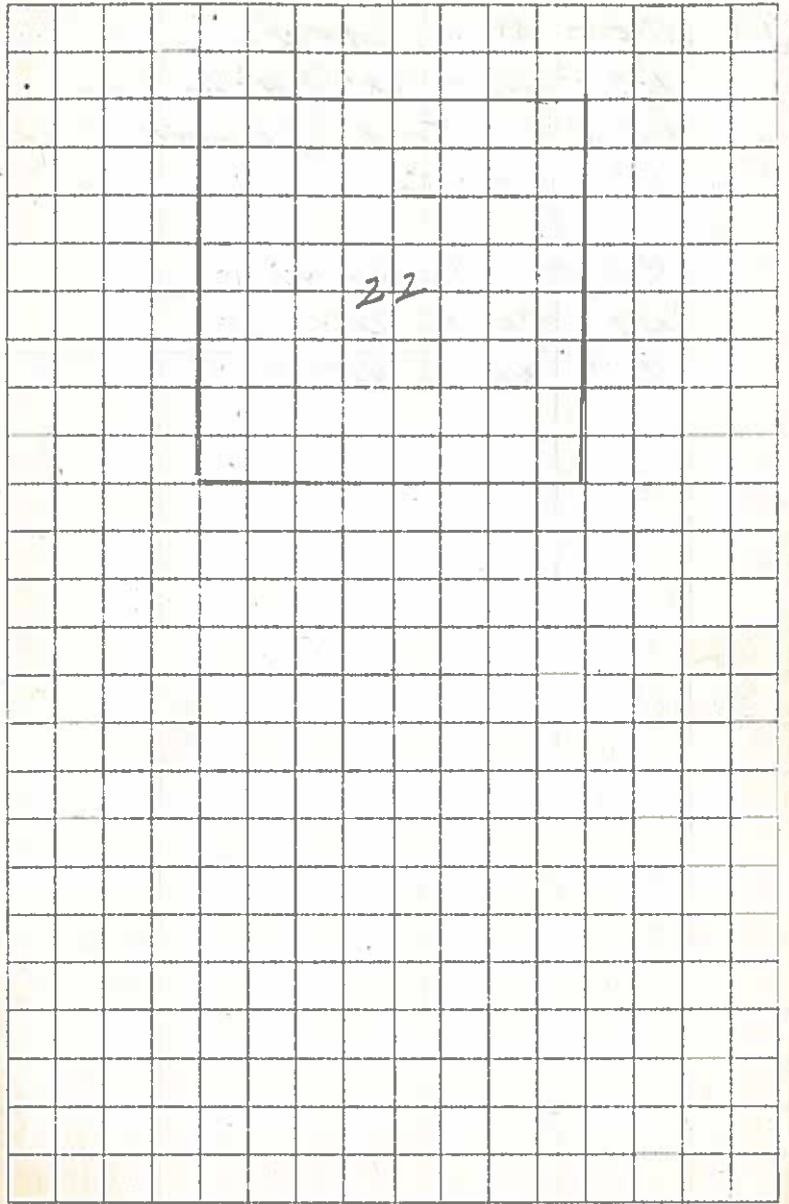
① SET-MONUMENT-  
 95.5 SW. TO 18" ELM  
 72.0 SW. TO 30" RED-OAK

② SET-MONUMENT-  
 18.2 N. TO 14" BLACK OAK  
 9.2 W. TO 20" " "  
 12.6 S. TO DOUBLE " "  
 30.0 W. OF W. BANK-OF-CREEK.

③ SET-MONUMENT-  
 90.5 NE. TO 40" ELM  
 88.8 NE TO 24" ELM  
 71.2 NE TO 20" ASH  
 20.7 N. TO CORNER POST.

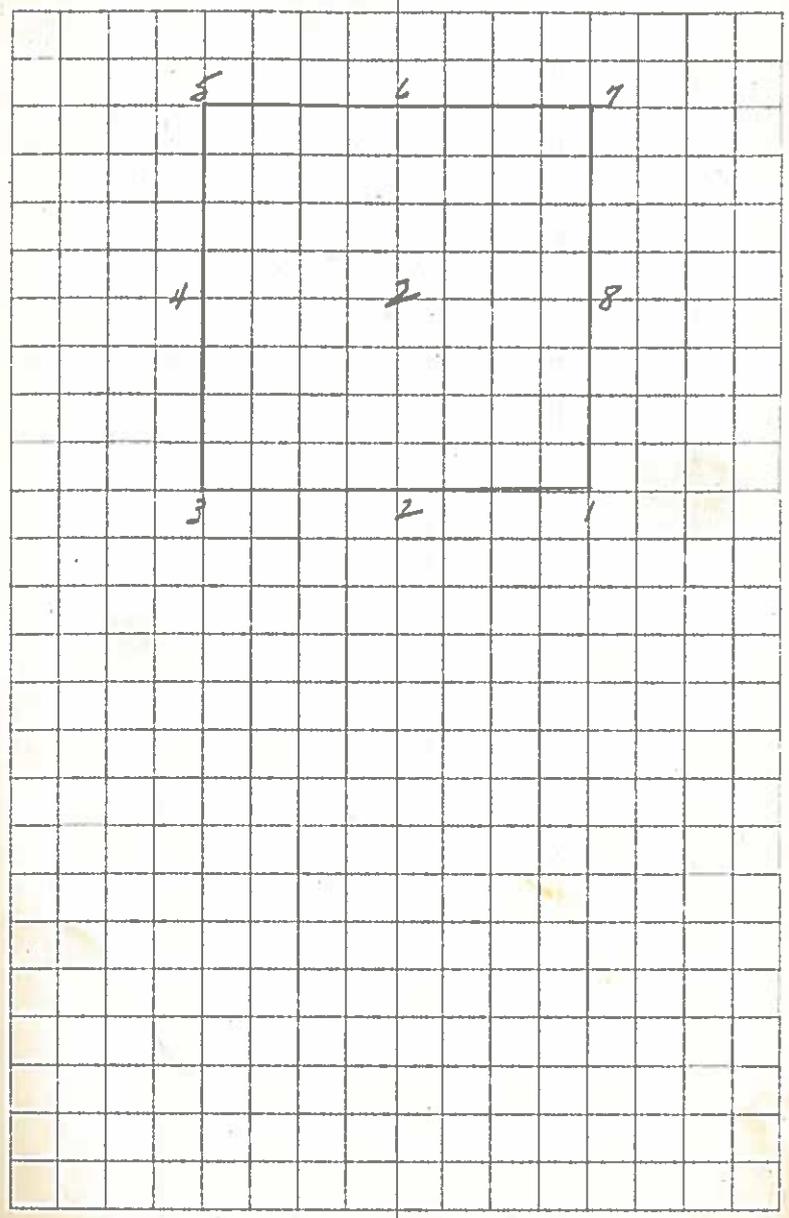
④ SET-MONUMENT  
 98.2 E. TO 20" BIRCH  
 162.5 S. TO NW. COR. OF E.  
 RR. BRIDGE-ABUTMENT.

⑧ SET-MONUMENT-  
 100.5 SW. TO 24" TRIPLE-ELM  
 39.3 NW. TO CORNER POST.



① SET-MONUMENT-  
 112.5 N. TO 18" CATALPA  
 48.5 NW. TO TELEPHONE POLE  
 138.1 NE. TO " "

② SET-MONUMENT-  
 49.1 SE. TO 18" ELM  
 76.7 NE TO 48" ELM







73

74

16

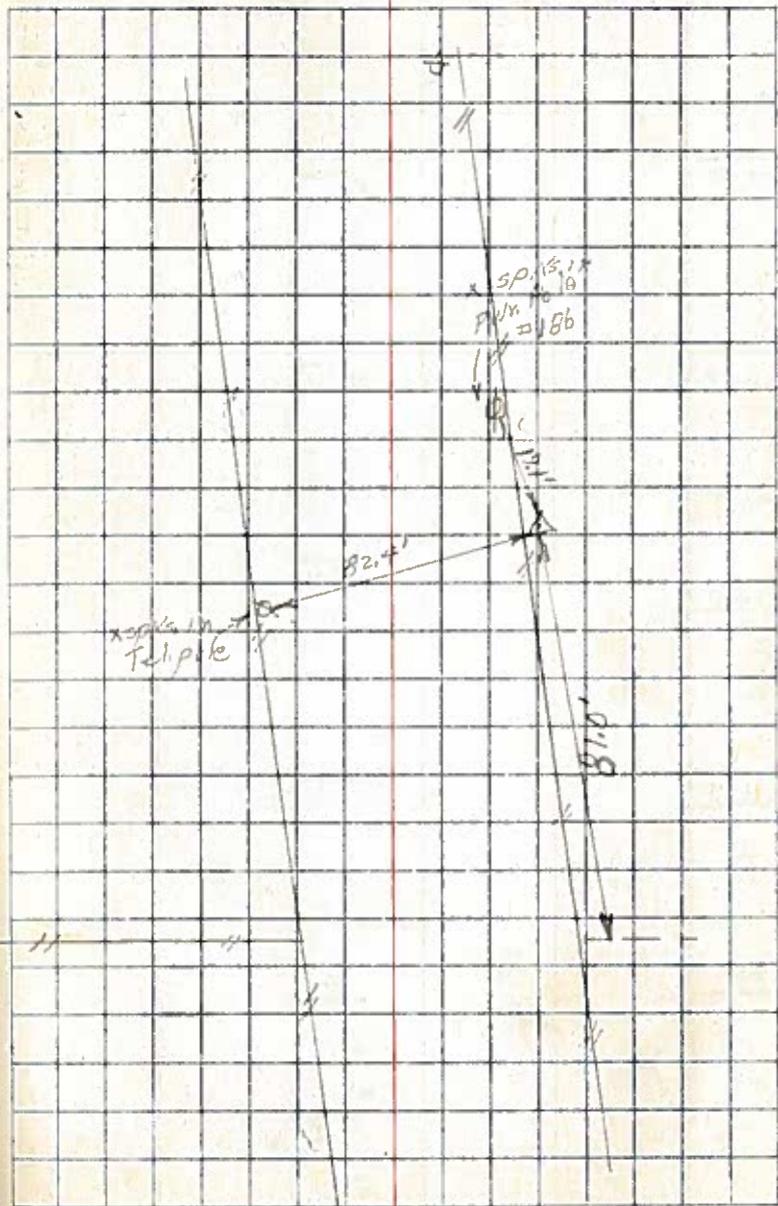
76

I.G.S.B.M.

70-9

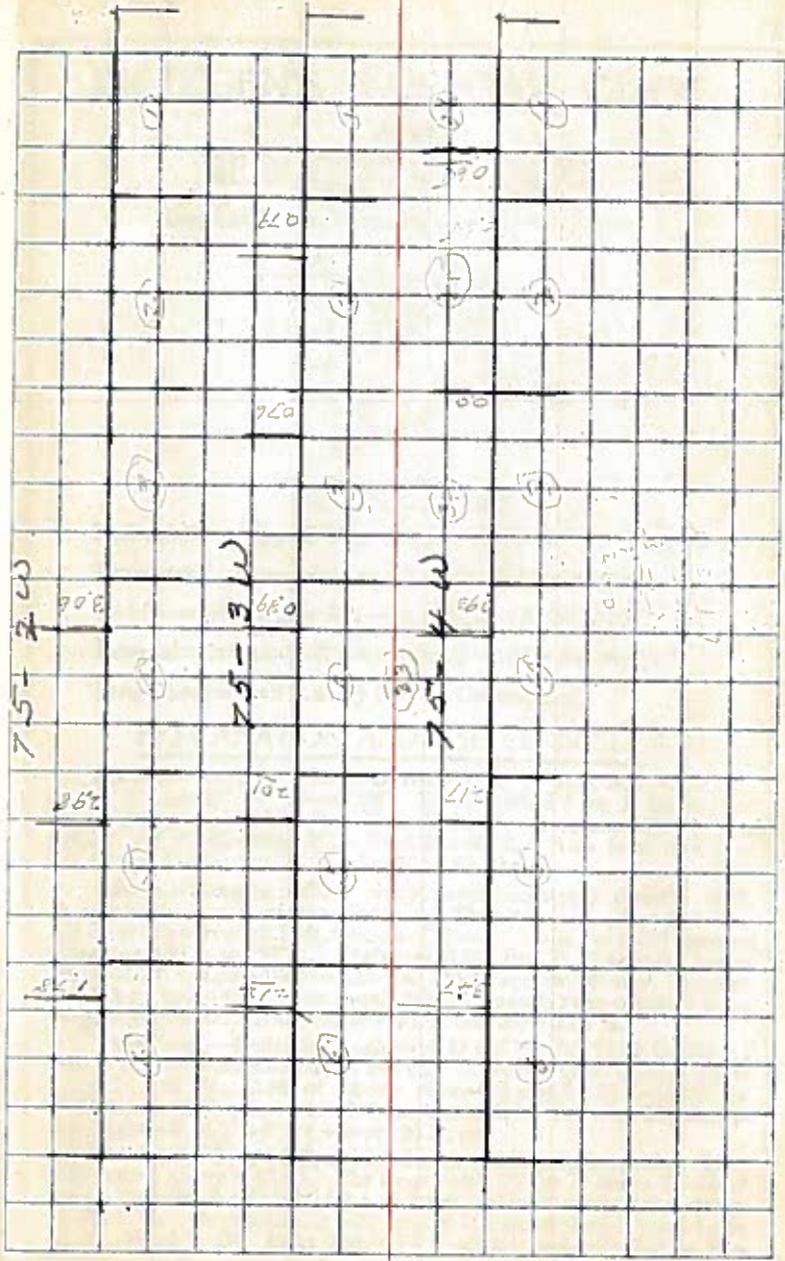
located on E. side of N. & S.  
rd. Approx. 1/4 mi. N. of Spangler's  
Chapel in the S.W. 1/4 of Sec. 16-76-210.  
2.6 ft. E. of E. RAIL feature.  
Man buried 12" deep

17.1' S.S.E. of x spks in <sup>R.E.H.</sup> Pub. Plat. # 186  
82.4' E.N.E. " " " " Tel. pole.  
81.0' N.N.W. (along RAIL) of F.C.W.





North line



10.60

4.92

5.68

10.60

1.92

8.68

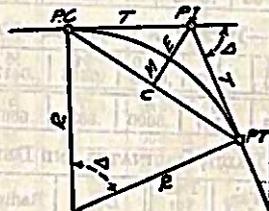
12

8.88

Tue Nov

# DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES

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## CURVE FORMULAS

Radius= $R = \frac{50}{\sin \frac{D}{2}}$  (1) Degree of Curve= $D$  and  $\sin \frac{D}{2} = \frac{50}{R}$  (2)

Tangent= $T = R \tan \frac{\Delta}{2}$  (3) Length of Curve= $L = 100 \frac{\Delta}{D}$  (4)

Middle ordinate= $M = R(1 - \cos \frac{\Delta}{2}) = R \text{vers} \frac{\Delta}{2}$  (5)

External= $E = T \tan \frac{\Delta}{4} = R \div \cos \frac{\Delta}{4} - R$  (6)  $= R \text{exsec} \frac{\Delta}{4}$  (9)

Long Chord= $C = 2 R \sin \frac{\Delta}{2}$  (10)  $\Delta = \text{Central Angle}$

## EXPLANATION AND USE OF TABLES

**Stations.**—Given P. I.—Sta. 161 + 60.35 to find Sta. of P. C. and P. T.  $\Delta = 62^\circ 10'$   $D = 8^\circ 20'$ . From Table IV for  $1^\circ$  curve  $T = 3454.1$  and  $+8\frac{1}{4} = 414.49$  ft. From Table V correction = .86 or  $T = 414.85$  ft. P. C. = Sta. P. I. —  $T = 157 + 45.50$ . Also from (4)  $L = 746.00$  and P. T. = Sta. P. C. +  $L = 164 + 01.50$ .

**Offsets.**—Tangent offsets vary (approximately) directly with  $D$  and with squares of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft. = 7.27 ft. Distance = 158 — Sta. P. C. = 54.50, hence offset =  $7.27 (54.50 + 100)^2 = 2.16$  ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus  $(54.50)^2 \div (2 \times 688.26) = 2.16$  ft.

**Deflections.**—Deflection angle =  $\frac{1}{2} D$  for 100 ft.,  $\frac{1}{4} D$  for 50 ft., etc. For  $c$  ft. = (in minutes)  $.3 \times C \times D^2$  or = defl. for 1 ft. from Table III  $\times C$ . For Sta. 158 of above curve =  $.3 \times 54.5 \times 8\frac{1}{4} = 136.2'$  or  $2^\circ 16.2'$ , or =  $2.50 \times 54.5 = 136.2'$  from Table III. For Sta. 159 deflection angle =  $2^\circ 16.2' + 8^\circ 20' \div 2 = 6^\circ 26.2'$ , etc.

**Externals.**—May be found in similar manner to tangents. Thus  $E$  for curve above is 91.37. For from Table IV for  $1^\circ$  curve  $E = 960.6$  for  $8^\circ 20' = 960.6 \div 8\frac{1}{4} = 91.27$  and from Table V correction = .10 or  $E = 91.37$  ft. Or suppose  $\Delta = 32^\circ$  and  $E$  is measured and found to be 42 ft. What is  $D$ ? From Table IV  $E = 230.9$  and  $+42 = 5.5$  or  $D = 5^\circ 30'$ .