

1829

# 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? 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  $30.6 + (20 - 16) \div 2$  or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1½ see inside of back cover.  
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# 1829

## CITY ENGINEERS OFFICE

INDEXED

*to page # 52*

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

INDEX

Collingwood - X-Section	2-8
Paradise Hills Drain	9-31
Muirlands Dr. at Vista Verde	44-47
Alley BIK 43-O.B. X-sec	50-52

Chica

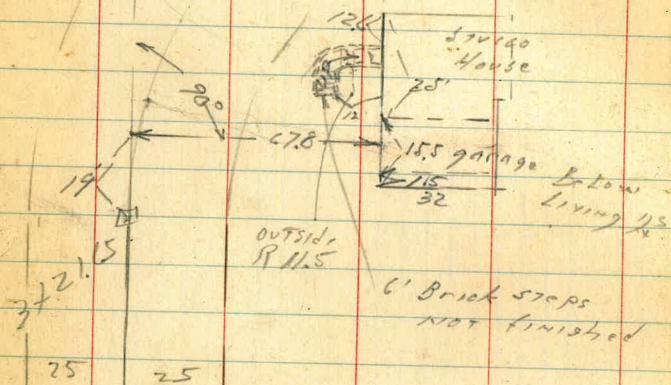
H

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- 35
- 36
- 37
- 38
- 39
- 40

Es  
to be  
of road  
examp  
30.6 =

Indexed

✓ sec Collingwood  
Jewell to send Congress  
HTS,



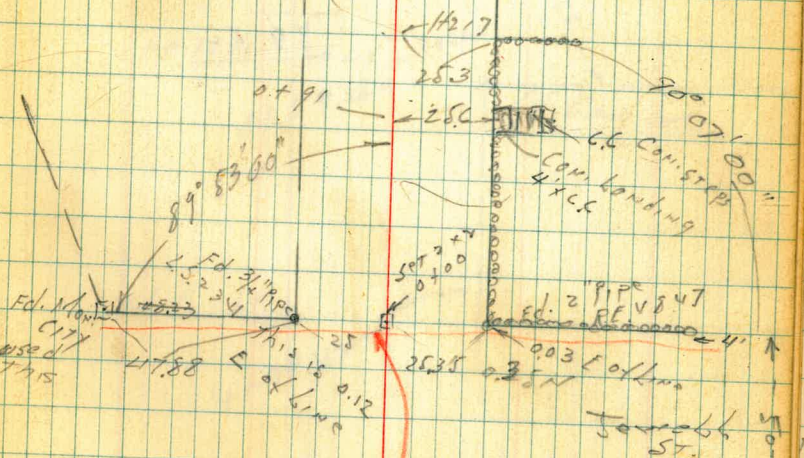
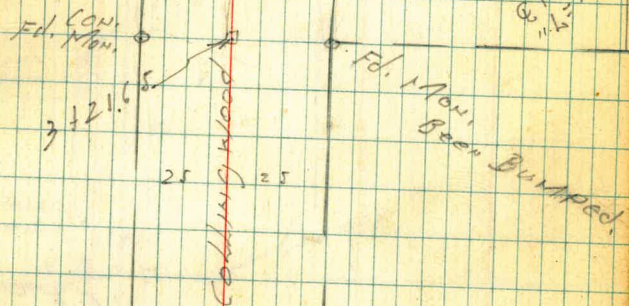
1570796  
1570776  

---

17278756

Moore  
Boag  
Green  
Roberts  
12-31-47  
W.O. 25001

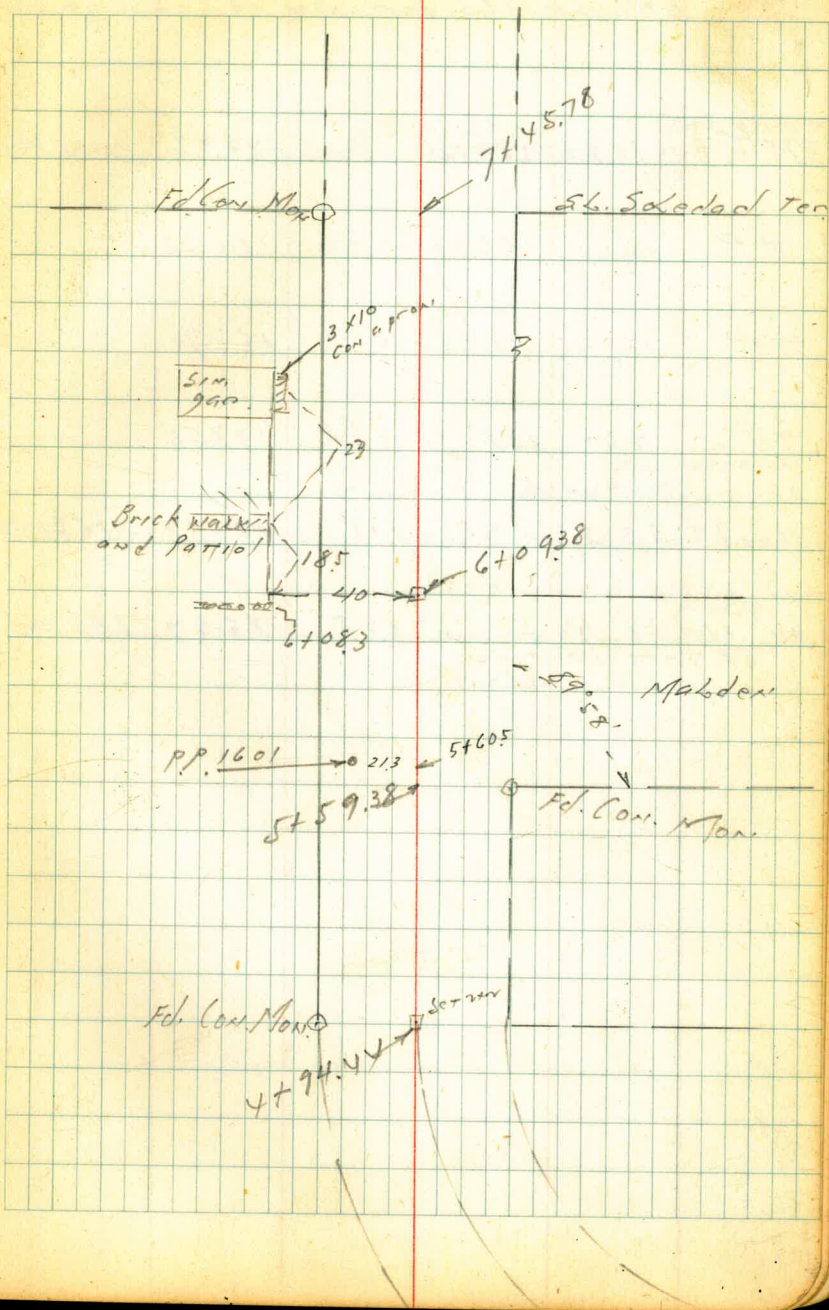
444.44 E. 0.1  
2.2



U.S. Army Comm. Cable  
0-04 3' deep

ALREADY USED

6 + 09.3  
 18.5  
 ---  
 27.8 ✓  
 23  
 ---  
 50.8 ✓



B.M. Levels for xsec of Colliery road

B.M. C.T.	11.82	154.18		142.36	SW Ret.
T.P.	12.24	165.92	0.50	153.68	
T.P.	12.43	178.33	0.02	165.90	
T.P.	9.62	187.27	0.68	177.65	
check to SE 7' 4d ST.	1.15			186.12 = 186.13	
on old ch. Ret SE Cor. Lamont Wilbur	1.28			185.99	186.00

Wilbur & Lamont 10' RR. C.T. 10' S of SW 7' Pt. FB. 1274-9

For xsec on  
Corr. to 186.24 = Mountmouth  
186.6 = old City?  
186.9 = den. fr. USC & G. S. Walker  
Does this check profile?

FB 1736-P 53

Moore  
1899

1 sec on Collingwood Dr.  
Jewell Wly and sly  
to W. Congress Mrs.

Note! used same B.M.<sup>s</sup>  
as used on Monmouth  
F.B. 1736-53-54

However, have doubt whether I  
should have made all connection  
as shown in 1736-53 + (1274-79)  
orig. x sec.  
by Yeager

0 + 50

0 + 100 = W.L. Jewell

PLOTTED  
1-7-48  
J. W. Moore

T.P. 11.93 213.48

201.55

check to 3/4" Pipe Sw. Cor.  
Jewell and  
Collingwood

11.02

201.54

201.55  
1736-54

= T.P.

T.P. 11.29 212.56

0.59

201.27

B.M. WY 12.95 201.86

188.91

Sely Cor. of  
Monmouth &  
Collingwood.

1736-53-54

LT

\*

P<sub>7</sub>

4

200.6	204.9	207.8	210.4	210.6	211.3	210.4	212.2	212.1	210.8
12.9	8.6	5.7	3.1	2.9	2.2	4.5	1.3	1.4	+2.7
50	25	8	2		3	4	25	25	25
							dir	Bot. Wall	TOP
		198.3	202.1	206.9	207.8	207.5	209.9	209.0	213.2
		50	11.4	6.6	5.7	6.0	3.6	4.5	0.3
			25		3	4	25	25	25
							dir	Bot. Rock Wall	TOP
									213.5
									0.0
									47
									dir

213.48

212.56

Called to  
otra trabajo

3/00

T.P. 901 229.84 0.16 220.83

+50

2/00

+50

+21.7 end Cont. Cobble wall

0/91

T.P. 818 220.99 0.67 212.81

213.08

Lt		Rt	
211.4	215.7	219.5	221.2
18.4	14.1	10.3	8.6
5/0	2/5	6	3
209.8	214.1	217.6	219.4
11.2	6.9	3.4	1.6
5/0	2/5	2	3
206.1	211.0	214.6	216.9
14.9	10.0	7.2	4.1
5/0	2/5	7	3
204.6	208.8	212.0	215.7
11.4	12.2	9.0	5.3
5/0	2/5	8	5
203.6	204.4	210.9	214.1
17.4	12.6	10.1	6.9
5/0	2/5	9	3
202.0	207.2	210.1	212.6
19.0	13.8	10.9	8.4
5/0	2/5	7	8
201.4	204.5	214.0	214.8
11.5	7.0	6.2	7.2
2/5	3	2/5	2/5
200.9	218.3	214.6	216.3
8.9	11.2	5.4	4.7
3	2/2	3	2/2
220.9	222.5	217.7	218.7
8.9	7.8	5.5	5.3
3	2/2	2/5	2/5
221.4	223.6	221.0	217.9
8.4	5.2	0.0	1.9
2/2	2/5	2/5	3/5
221.4	224.8	222.9	220.7
8.4	5.0	1.9	0.3
2/2	3/0	3/5	3/5

Top of wall  
Bot. of wall  
Top of land  
Cont. Base of Landing





1+3640

6+09,38 = 42 Malden

PP  
Nail #1201

T.P. ~~8.71 248.10 1.59 239.39~~

1+01.40

184.38 8 Malden

Nail T.P.

P.P. 1601 8.71 248.10 1.59 239.39

1+57.40

5+59,38 SL Malden

1+57.40

5+59,38 SL Malden

2+10.78

5+35

2+51.34

4+94.44 F.C.

240.98

2+

241.5  
40

241.5  
25

241.7  
30

241.4  
17

241.7  
19

242.5  
25

244.7  
50

246.7  
12.5

77

So. end of  
5.5 wide Cox  
Drive

238.9  
42

239.9  
25

240.5  
30

240.0  
11

238.8  
9

238.3  
18

240.7  
25

243.0  
50

244.2  
75

244.9  
100

248.10

242.5  
1.5  
5

241.7  
1.7  
100

235.4  
50

236.6  
25

238.6  
30

237.2  
38

237.4  
40

237.2  
48

238.0  
50

239.2  
59

241.0  
70

231.8  
50

234.4  
25

235.0  
23

235.2  
18

234.4  
66

234.0  
10

234.3  
20

236.9  
23

237.2  
25

237.4  
30

227.1  
13.9  
50

228.4  
11.6  
25

230.3  
10.7

230.4  
10.6  
12

229.7  
11.3  
20

231.8  
9.2  
25

233.6  
7.8  
30

232.7  
7.3  
35

240.98



Walker  
 Headrick  
 Becker  
 Williams  
 3-29-48

Paradise Hills  
 Location Proposed Drain  
 Between Potomac and Bolivar  
 From Rancho Drive to Rachel

WO 90074

(Profile Levels P-13-26)

3165.00  $\Delta$  Lt 12°18'

INDEXED

W.K.

JUL 22 1949

S-63°38'30"W

70.?

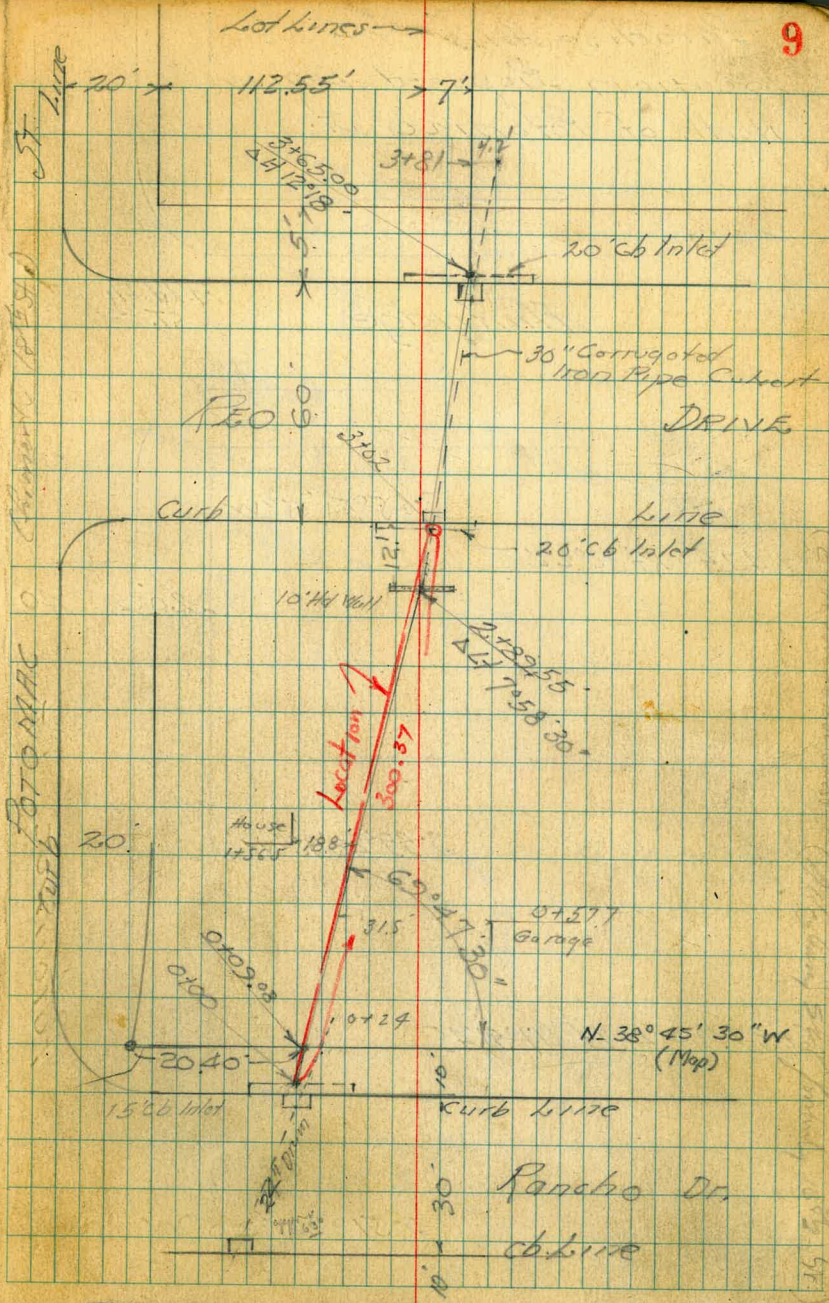
2189.55  $\Delta$  Lt 7°58'30"

S-77°36'50"W

(71.27)

0100

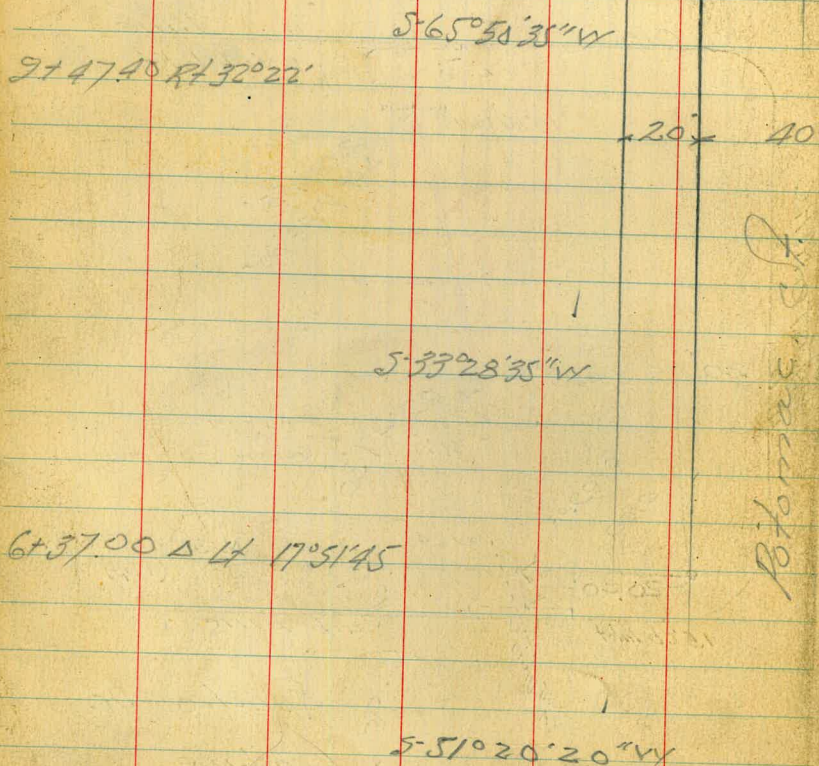
THE POINT 27 55-57



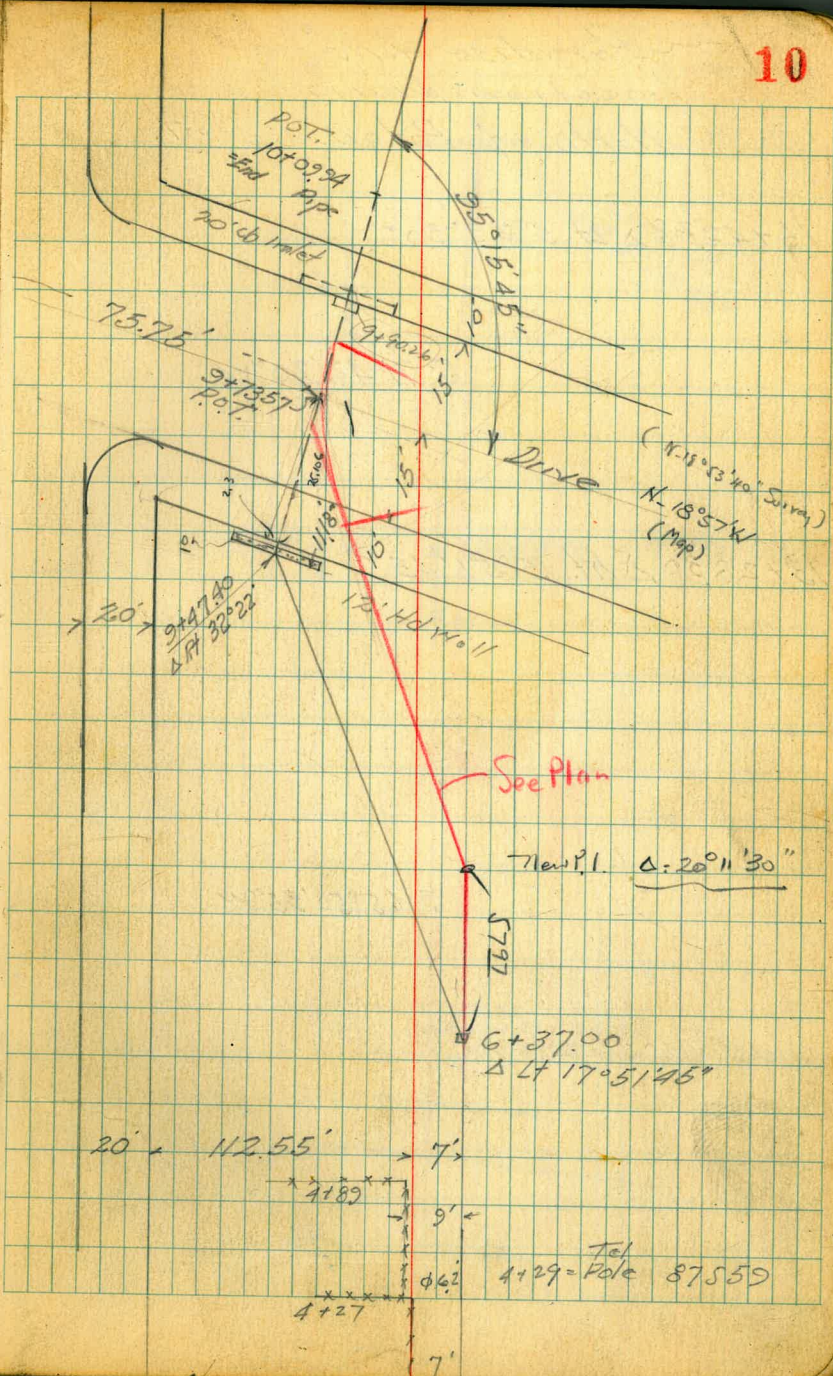
Paradise Hills  
 Location Proposed Drain  
 North of Potomac St.

Hintridge

Fl. Hd. Ph  
 St.



Potomac St.



Paradise Hills  
Location drawn  
North of Potomac St.

16+42.28 A.H.  $5^{\circ}23'30''$

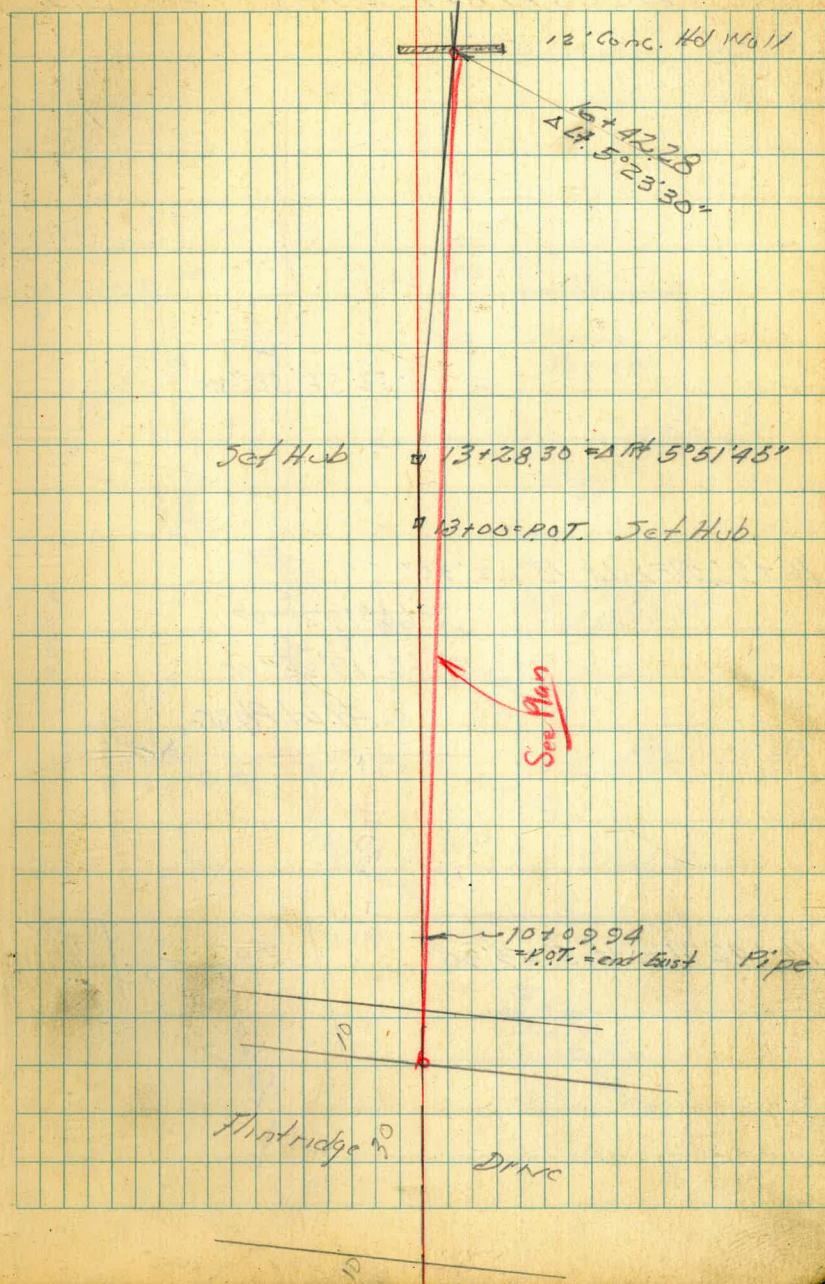
S.  $71^{\circ}42'20''$  W

13+28.30 A.H.  $5^{\circ}51'45''$

S.  $65^{\circ}50'35''$  W

Rachel  
Curb

St. Line 11



Paradise Hills  
Location Proposed Drain

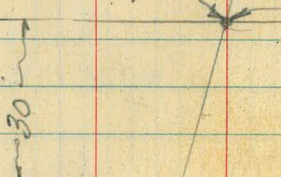
S. 52° 56' 58" W

16+95.38 = Δ Lt 13° 22' 30" 7

S. 66° 19' 20" W

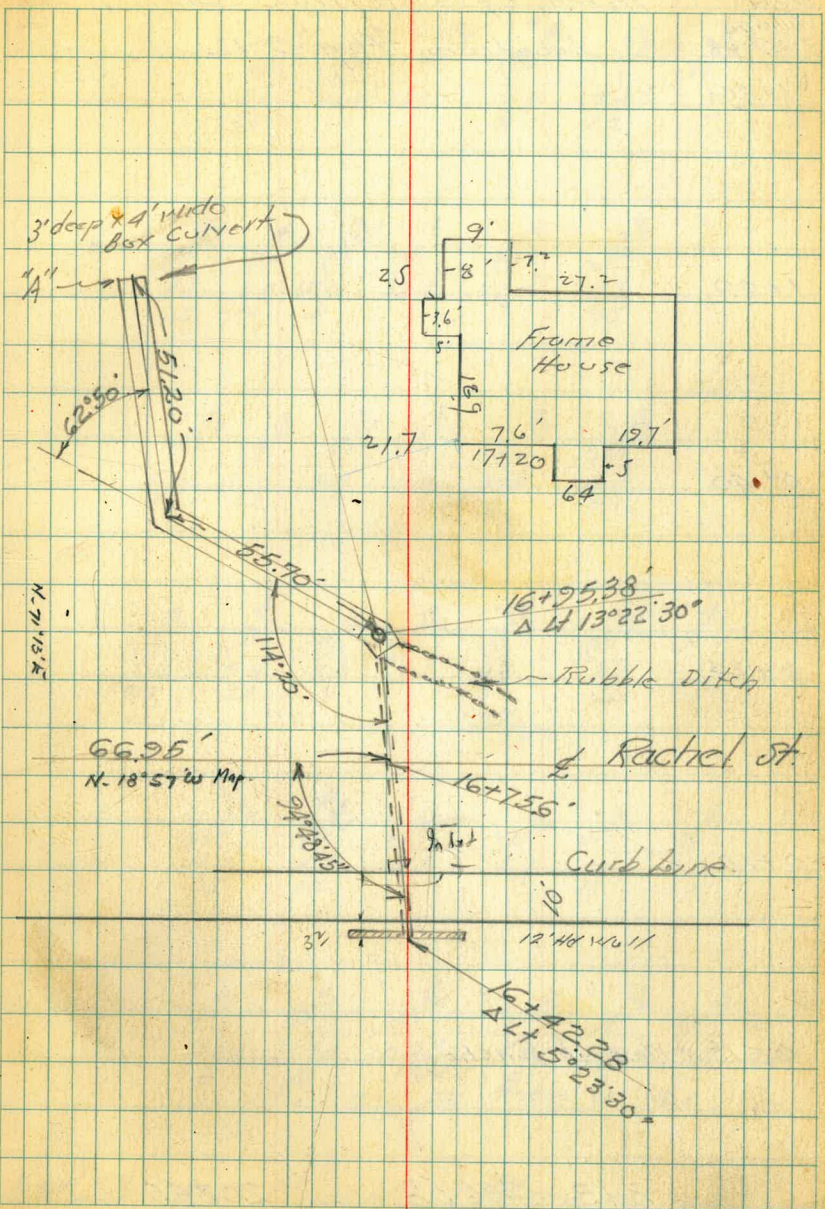
S. 66° 19' 20" W

Eg. Rd. Plat.



16+42.28 = Δ Lt 5° 23' 30"

40' 40'  
St. Patomas



Walker  
Handicks  
Becker  
Williams  
3-29-48

Paradise Hills Drainage X-Sections  
- North of Potomac St.  
Location - Page 9-12

1735

1700

0740

0+24

0+10

0-16 - West cb Rancho

3.13 206.58

20345

4

5

17 13

201 <sup>48</sup>	195 <sup>28</sup>	193 <sup>48</sup>	193 <sup>78</sup>	199 <sup>28</sup>	200 <sup>28</sup>
35	110	131	123	79	6.5
	10		8	22	25

202 <sup>48</sup>	196 <sup>78</sup>	194 <sup>58</sup>	194 <sup>18</sup>	194 <sup>58</sup>	202 <sup>78</sup>
41	98	130	124	120	130
25	12	7		7	25

203 <sup>98</sup>	204 <sup>58</sup>	197 <sup>18</sup>	195 <sup>78</sup>	195 <sup>18</sup>	202 <sup>48</sup>
26	20	9	10.8	11.4	11
25	22	7		5	25

203 <sup>58</sup>	203 <sup>78</sup>	199 <sup>58</sup>	197 <sup>48</sup>	194 <sup>78</sup>	198 <sup>38</sup>	203 <sup>38</sup>
20	2.8	7.2	9.1	11.8	8.2	3.2
27	22	9		7	15	25

Flow  
2015 Pipe

202 <sup>58</sup>	202 <sup>48</sup>	201 <sup>28</sup>	201 <sup>28</sup>	203 <sup>18</sup>	202 <sup>88</sup>
40	4.1	5.3	5.3	2.7	3.7
25	10		7	15	30

202 <sup>30</sup>	201 <sup>34</sup>	195 <sup>35</sup>	201 <sup>27</sup>	202 <sup>27</sup>	201 <sup>25</sup>	202 <sup>21</sup>
4.8	5.24	11.23	5.36	4.31	5.33	4.37
8	8	Flow	8	8	8	7
cb.	Gut.	206.58	Grotting	cb.	Gut.	cb.

SM. SW. RR RANCHO & POTOMAC



Paradise Hills - Drains  
North of Potomac St.

TR 0.58 197.45 2.71 196.87

on stake  
3165.00

2+89.55 = Δ Lt. 7°58'30"

2+74

2+50

2+00

1+80

1+56

206.58

14

6

14

19345 18931  
1313 1727  
0 0  
on HdWall on Floor 30" Corrugated Culvert

19508 19258 19108 19128 19848 19934  
11.5 14.0 15.5 15.3 21 22  
25 16 7 15 22 Conc.  
on Drive

19518 19178 19128 19198 19948 20018  
11.4 14.8 14.8 14.6 21 6.4  
25 9 6 25 30

20148 19458 19258 19228 19218 19378 19558  
5.1 12.0 14.0 14.3 14.4 12.8 11.0  
25 7 3 3 14 20 25

20258 20208 19988 19358 19288 19268 19358 19678  
4.0 4.5 6.7 13.0 13.7 13.9 13.0 9.8  
25 21 15 3 2 15 15 25

20088 19998 19588 19358 19338 19608 19878  
5.7 6.6 12.7 13.0 13.2 10.5 7.8  
30 15 3 5 5 17 25  
Ground  
at House

206.58

Paradise Hills Drains  
North of Potomac St

4+00

3+81 opp End 30" Corrugated Pipe 4.2' R/L

3+68

3+65 = A Lt. 12° 18'

3+63.5 = WLY Cb

3+02 = ELY Cb. Rec. D.

2+97

197.45

Lt

R

Rt. 15

1944 <sup>5</sup>	188 <sup>95</sup>	188 <sup>85</sup>	185 <sup>95</sup>	185 <sup>15</sup>	185 <sup>85</sup>	189 <sup>65</sup>
3.0	8.5	8.6	11.5	12.3	11.6	7.8
3.0	2.5	7		6	14	27

1945 <sup>5</sup>	190 <sup>15</sup>	190 <sup>35</sup>	186 <sup>75</sup>	185 <sup>55</sup>	187 <sup>65</sup>	189 <sup>85</sup>	191 <sup>45</sup>
2.9	7.9	7.1	8.7	11.90	9.8	7.6	6.0
2.5	16	5		4.2 Flow	8	11	2.5

197 <sup>55</sup>	196 <sup>85</sup>	196 <sup>65</sup>	196 <sup>85</sup>	197 <sup>15</sup>
2.1	0.6	0.3	0.6	0.3
2.5	7		16	2.5

196 <sup>80</sup>	195 <sup>84</sup>	196 <sup>72</sup>	195 <sup>70</sup>	195 <sup>91</sup>	196 <sup>86</sup>
0.65	1.1	0.73	1.25	1.54	0.59
10 Cb.	10 Ext. Pav.	5 Grading	5 Cb.	10 Gut. Pav.	10 Cb.

196 <sup>19</sup>	197 <sup>16</sup>	197 <sup>10</sup>	197 <sup>10</sup>	197 <sup>22</sup>	196 <sup>23</sup>
1.36	0.29	0.25	0.35	0.33	1.22
10 Gut. Pav.	10 Cb.	5 Grading	5 Cb.	10 Cb.	10 Gut. Pav.

197 <sup>15</sup>	197 <sup>15</sup>	197 <sup>15</sup>
0.3	0.3	0.3
10		10

197.45 J

Paradise Hills - Drains  
North of Potomac St.

5+57

5+34

T.P. 2.00 186.70 12.75 184.70 Nail in Tel Pole  
467756 ft  
5139.6 ft

5+05

4+80

4+77

4+53

197.48

4

8

57. 16

186 <sup>9</sup>	185 <sup>4</sup>	181 <sup>3</sup>	178 <sup>7</sup>	178 <sup>5</sup>	178 <sup>5</sup>	180 <sup>0</sup>	181 <sup>7</sup>
+0.2	1.3	.54	8.0	8.2	8.2	6.7	6.0
25	25	8	4	8	8	13	25

184 <sup>7</sup>	181 <sup>8</sup>	180 <sup>9</sup>	179 <sup>9</sup>	180 <sup>9</sup>	180 <sup>8</sup>	181 <sup>1</sup>	182 <sup>7</sup>
8.0	4.9	5.8	6.8	5.8	5.9	5.6	4.0
25	25	16	12	8	25	15	25

186.70 ✓

181 <sup>25</sup>	182 <sup>25</sup>	180 <sup>65</sup>	182 <sup>25</sup>	183 <sup>45</sup>	185 <sup>65</sup>	189 <sup>45</sup>
16.2	15.2	16.8	15.1	14.3	14.8	8.0
25	9	7	5	11	11	25

17 ch.

184 <sup>35</sup>	182 <sup>95</sup>	182 <sup>25</sup>	185 <sup>55</sup>	186 <sup>45</sup>	191 <sup>75</sup>
12.9	14.5	15.2	11.2	9.0	5.7
30	20	2	10	10	25

184 <sup>35</sup>	182 <sup>95</sup>	182 <sup>25</sup>	182 <sup>65</sup>	185 <sup>25</sup>	186 <sup>45</sup>	191 <sup>75</sup>
12.9	14.5	15.2	14.8	12.2	9.0	5.7
30	18	3	10 ch	2	10	25

185 <sup>45</sup>	184 <sup>45</sup>	183 <sup>85</sup>	183 <sup>35</sup>	183 <sup>95</sup>	191 <sup>05</sup>
12.0	12.8	13.6	14.1	13.5	6.9
25	15	15	7	12	25

197.45

Paradise Hills Drain  
North of Potomac St.

6+50

6+69 34' Rt = WLY edge Pole # 87502

6+46 2.5' Lt = Pole Anchor

$\Delta$  Lt  $17^{\circ}51'45''$

6+37 See on Bisector

6+28

6+09

5+77

5+60

18670

17

186 <sup>5</sup>	174	176 <sup>0</sup>	177 <sup>9</sup>
0.2	2.3	10.7	8.8
35		5	25

See also  
page 53

185 <sup>4</sup>	178 <sup>2</sup>	176 <sup>98</sup>	176 <sup>3</sup>	178 <sup>6</sup>
1.3	8.5	9.72	10.4	8.1
25	3	on H.L.B	3	28
			10.4	

187 <sup>4</sup>	185 <sup>2</sup>	178 <sup>4</sup>	177 <sup>1</sup>	176 <sup>6</sup>	178 <sup>8</sup>
10.7	15	8.3	9.6	10.1	7.9
35	25		4	11	25
				12.4	

188 <sup>7</sup>	180 <sup>6</sup>	178 <sup>2</sup>	177 <sup>7</sup>	177 <sup>7</sup>	176 <sup>8</sup>	178 <sup>3</sup>
12.0	6.1	8.5	9.0	9.0	9.9	8.4
35	10		7	22	24	27

188 <sup>7</sup>	186 <sup>1</sup>	185 <sup>3</sup>	182 <sup>1</sup>	179 <sup>6</sup>	179 <sup>2</sup>	177 <sup>7</sup>	179 <sup>0</sup>	179 <sup>1</sup>
12.0	0.5	14	4.6	7.1	7.5	9.0	7.7	7.6
35	25	20	8		15	19	22	30
						17.4		

179<sup>8</sup>  
6.9

18670 ✓

Paradise Hills - Drain  
North of Potomac St.

7+77

7+75

7+40

7+30

7+20

7+00

6+75

186.70

ft.

ft.

ft. 18

171

15.0  
44  
12.4

174.3

12.4  
41  
12.6

174.1

12.6  
25

177.3

9.4  
15

177.3

9.4

179.0

7.7  
34

175.2  
11.5  
5

175.0  
11.7  
5

177.3  
9.4  
6

179.0  
7.7  
34

174.5

12.2  
32  
12.4

176.3

10.4  
7

178.9

7.8

180.0

6.7  
18

185.4

1.8  
30

175.1  
11.0

181.5

5.2  
40

177.1

9.6  
31

175.0

11.7  
18

175.2

11.5  
17.4

175.4

11.3  
3

181.4

5.3  
21

184.4

2.3  
22

185.4

1.3  
30

181.9

4.8  
35  
Toe 1 1/2 fill

177.6

9.1  
19

176.0

10.7

175.3

11.4  
17  
12.4

176.5

10.2  
22

180.0

3.2  
35  
Toe 1 1/2 fill

180.6

6.1  
19

176.6

10.1

175.7

11.0  
15  
12.4

177.0

9.7  
25

Toe 1 1/2 fill

186.70

9+47.90 Δ RT 32° 22'

9+30

9+00

8+50

TP 4.20 178.76 12.14 174.56

8+08

8+05

186.70

171.92  
6.84  
on Hdw/Hdw

171.92  
6.84  
on Hdw/Hdw

167.39  
11.37  
Flax  
2" corrugated

171.92  
6.84  
on Hdw

169.46  
9.3  
15

168.66  
10.1  
7

167.66  
11.1  
5  
17.4

168.66  
10.1  
5

168.76  
10.0

170.06  
8.7  
11

176.16  
3.6  
5.0

168.06  
10.7  
2.2  
17.4

169.36  
9.4  
19

168.96  
9.8

169.36  
9.4  
11

171.06  
7.7  
15

171.26  
7.5  
2.5

169.56  
9.2  
37

172.06  
6.7  
24

170.76  
8.0

171.36  
7.4  
22

172.16  
6.5  
25

in ch. 178.76 ✓

170°  
16.7  
51  
17.4

174°  
13.7  
26

173°  
13.0  
4

172°  
14.4

172°  
14.4  
10

178°  
8.7  
20

178°  
8.7  
25

174°  
12.4

186.70 ✓

Paradise Hills - Drain

10+0294 = End East 36" Corrugated on <sup>2</sup>line of this... Live

9+97

9+8857 = W cb Flintridge

9+7357 = E Flintridge

9+5857 = E cb Flintridge

9+52

17876

16746	16796	16843	16726	16766
11.3	11.0	15.33	11.5	11.1
15	8	0	8	11
		Flow		

17286	17316	17356
5.9	5.6	5.2
10		10

17318	17221	17328	17217	17235	17332
5.58	6.55	5.56	6.59	6.41	5.44
10		0	0	10	10
cb	cut	cb	cutting	cut	cb

17357  
5.25  
Par

17438	17335
4.98	5.01
0	0
cb	cut Par

17406	17406	17406
4.7	4.7	4.7
10		10

17876 ✓  
8

Paradise Hills - Drains

14

15

17 21

11+23

11+60

11+30

TP 2.28 167.83 13.21 165.55

11+00

10+55

10+33

178.76

63 ✓  
163  
72

162 43	169 23	162 13	164 13	171 83
5.1	8.6	5.7	3.7	+4.0
30	17		7	2.5
Bank	17cb.		10c 511	

162 23	159 23	161 03	164 13	165 33	166 53
5.1	8.1	9.8	3.7	2.3	1.3
39	34	23	167.83	14	2.5
Bank	17cb				

162 26	160 26	162 96	164 96	165 66	168 06
16.5	18.5	15.8	17.8	18.1	10.7
34	31	22		12	2.5
	17cb.				

164 06	162 66	161 46	164 16	165 56	168 26	171 96
14.7	16.1	17.3	14.6	13.2	10.5	6.8
25	16	9	5		12	2.5

165 26	163 16	162 36	162 96	164 96	171 16
13.5	15.6	16.2	16.2	13.8	7.6
20	7	6	17	5	2.5
	Bank	17cb.	17cb.		



Paradise Hills - D 20112

13+17

13+00 on Hub P.O.T.

12+87

12+62

12+25

12+11

12+06

167.83

22

157.53

10.3

158.93

89.0

162.13	157.83	158.23	158.13	157.93	165.53
5.7	12.0	11.1	9.7	7.9	2.0
47	40	20	9		20
Bank	inch				

161.93	157.83	158.13	160.23	162.53	166.33
5.9	12.0	9.7	7.6	5.8	1.0
53	29	35	13	5.8	20
Bank	inch				

167.33	158.33	159.33	158.33	163.23	166.93	169.33
6.5	9.5	10.5	9.5	4.1	1.0	1.5
50	35	31	20		11	25
		inch				

160.03 ✓

7.8

161.63	157.13	158.03	158.13	158.63	159.83	161.63	162.53	166.93	167.83	174.73
6.2	8.4	9.8	9.8	9.2	8.0	6.2	5.3	0.9	2.0	4.9
48	35	30	32	9		5	9	14	20	30
		inch	inch							

167.83 ✓

73c Full

Paradise Hills Drain  
North of Potomac est.

15+25

15+00

14+55

14+35

T.P. 5.74 161.65 11.92 155.91

14+00

13+28.30 = Δ RT 5°51'45"

13+19

167.83

Station	158 <sup>15</sup>	152 <sup>45</sup>	153 <sup>15</sup>	158 <sup>95</sup>	150 <sup>45</sup>	152 <sup>65</sup>	156 <sup>25</sup>	158 <sup>45</sup>	23
	8.5 9.2	9.2 1.7	8.5 9	10.7 3 inch	11.2 inch	7.0 7	4.9 12	3.2 2.5	
	154 <sup>55</sup>	153 <sup>95</sup>	154 <sup>15</sup>	151 <sup>55</sup>	151 <sup>25</sup>	151 <sup>95</sup>	155 <sup>15</sup>		
	7.1 8.5	7.7 2.5	7.5 1.4 Bank	10.1 1.2 inch	9.9 1.5 ch	9.7 7 17 ch	6.5 2.5 Bank		
	159 <sup>45</sup>	158 <sup>25</sup>	155 <sup>25</sup>	152 <sup>85</sup>	152 <sup>65</sup>	153 <sup>55</sup>			
	2.2 8.5	4.9 2.2	6.4 9	8.8 1.5 ch	9.0 1.9	8.1 4.1			
	160 <sup>25</sup>	158 <sup>85</sup>	153 <sup>75</sup>	152 <sup>95</sup>	153 <sup>15</sup>	154 <sup>95</sup>	158 <sup>05</sup>		
	1.4 8.5	5.8 1.8	7.9 4	8.7 1.5 ch	8.5 9 inch	6.7 12	3.6 2.5		
	164 <sup>45</sup>	157 <sup>13</sup>	153 <sup>63</sup>	153 <sup>23</sup>	153 <sup>23</sup>	158 <sup>33</sup>	160 <sup>23</sup>		
	3.4 5.0	10.7 2.0	14.2 3 inch	14.6 1.1 ch	14.6 3 inch	11.5 8 Bank	7.6 2.5		
	165 <sup>93</sup>	161 <sup>33</sup>	155 <sup>53</sup>	154 <sup>77</sup>	153 <sup>03</sup>	158 <sup>83</sup>	162 <sup>53</sup>	165 <sup>83</sup>	
	1.9 5.0	6.5 3.0	12.3 7	13.06 on Hub 1.1 ch	12.8 2	11.0 4	5.3 1.9	3.0 3.0	
	165 <sup>83</sup>	161 <sup>33</sup>	155 <sup>53</sup>	157 <sup>23</sup>	156 <sup>83</sup>	162 <sup>53</sup>	165 <sup>83</sup>		
	1.9 5.0	6.5 3.0	12.3 1.5	12.6 1.1 inch	11.0 4	5.3 1.9	3.0 3.0		
				167.83					

Paradise Hills - Drain  
North of Potomac St.

16+60.6 = E. ch Ruckel

16+49

16+42.8 Δ Lt 5°23'30"

16+32

16+00

15+65

161.65  
✓

24

15444	15444	15523	15425	15410	15518
6.21	7.21	6.42	7.40	7.50	6.97
6.21	2	0	Gutting	10	10
	Seed Gutting	Ch		Get Wood Inlet	on ch.

15015	15124	15535
5.5	6.4	6.3
10		10

15258	15258	14807	15258
9.07	9.07	13.58	9.07
6	0	Flow	6
Hd Wall	Hd Wall	35" Corrug.	Hd Wall

15230	14995	14955	15075	15111
9.3	11.7	12.1	10.9	10.5
25	10	17 ch	12	28

14995	15085	15004	15055	15345
6.7	10.0	11.6	11.1	8.2
25	35	17 ch	21	35

15075	14761	15291	15015	15015	15075	15395	15635
10.9	10.0	8.7	11.5	11.5	10.9	7.7	5.8
32	14	4	inch	inch	4	9	25
			inch	inch	10 ch		

161.65  
✓

Paradise Hills Drains  
North of Potomac St.

17+69

17+72.5 - HWY and 6" Conc. 7/16/11

17+20

17+64 7' W 5" Grapefruit Tree

17+60 5' W 3" Orange

17+42 12' RT 6" Lemon

17+30 3' W Apricot

17+26 8' RT 6" Orange

17+18 7' LT Fig Tree

17+14 4' RT - 5" <sup>Orange Tree</sup> ~~lemon~~

17+07

16+95.38 = Δ Lt 13° 22' 30" = 1/2" Vert 12" Pipe on Top Box  
To Drain Surface water  
from Rachel St.

16+86

161.65

3

25

152.55  
21  
25

152.85  
8.8

153.05  
8.6  
25

154.15  
2.5  
22

154.15  
2.5

157.95  
3.7  
2.7 on  
drop Floor  
House

155.75  
5.9  
21 Ground  
House

157.65  
100  
10

154.25  
7.4

155.25  
6.4  
10

149.58  
12.97  
2  
on Top  
Conc Box

145.73  
15.92  
7.4  
3' x 4' Conc Box

153.25  
6.4  
10

152.25  
5.4  
12  
R/C

156.15  
5.5  
10

155.65  
6.0

155.85  
5.8  
10

161.65 ✓

Paradise Hills Drain

chk. S.E. BP      0.00       $\frac{0.01}{161.64} = \frac{18.1592}{161.65} \quad 30$

End 3' x 4' Conc. Box Culvert at "A" sketch P-12

18+76

18+45 = Int. Ch.

17+98

17+74

17+72.6 = N.W. end 6" Ret. sec. Parallel Conc. Wall to Rachel St.  
161.65

145.20  
13.95  
Top Box      144.15  
Flow line

144.20  
16.9  
21.0  
8 ch.

143.65  
18.0  
8 ch.

145.35  
16.3  
3.3  
8 ch.      145.55  
16.1  
145.75  
15.5  
2.5

149.15  
12.5

146.50  
15.1  
25.4  
157.65  
9.8  
197.66  
End Wall  
157.75  
9.9  
on Wall  
149.05  
12.6  
22  
157.95  
9.7  
23  
152.65  
9.0  
30

161.65

PARADISE HILLS  
Location Proposed Drain  
Block 19

Sheet  
Book  
#199

NO 90074

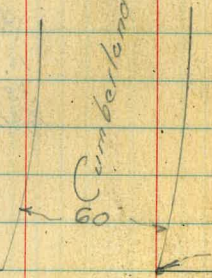
~~Indicated~~

For New Location Drain

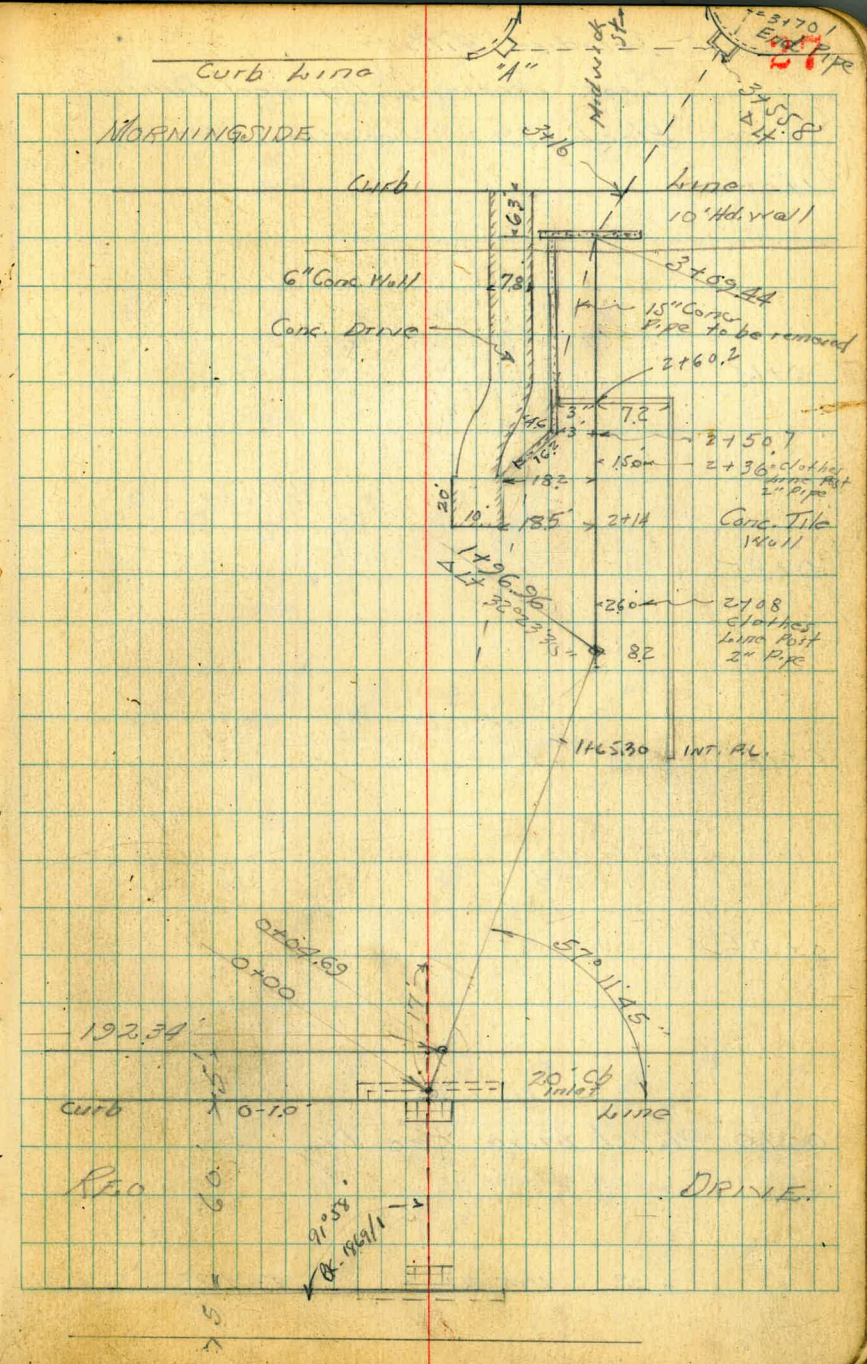
See 3491-B.

For Easement See 3495-B.

60' Cumberland St



TIC PL. 5 feet 2148



Paradise Hills

Cross Sections - Proposed Drain

Block 19 - Location P-27

1700

0+65

0+35

0+16

0+06

0-10' = M/CB line Res Dr

0.22 195.81

194.89

28

185 <sup>81</sup>	477 185	184"	185 <sup>71</sup>	186"	186"	190 <sup>21</sup>
10.0	10.1	11.7	10.1	9.7	9.7	5.6
25	15	13	10		8	25
		Ditch				

185 <sup>51</sup>	185"	185"	186 <sup>81</sup>	186 <sup>21</sup>	187 <sup>01</sup>	186 <sup>81</sup>
10.3	10.7	10.7	9.0	9.1	8.8	7.0
25	17	13	13	10	25	25
		Ditch				

187 <sup>81</sup>	187 <sup>71</sup>	185 <sup>21</sup>	187 <sup>71</sup>	188 <sup>21</sup>	188 <sup>51</sup>	190 <sup>21</sup>
8.0	8.1	10.6	8.1	7.6	7.3	5.6
20	16	14	12	15	15	25
		Ditch				

193 <sup>51</sup>	185 <sup>251</sup>	189 <sup>31</sup>	190 <sup>31</sup>	191 <sup>51</sup>	194 <sup>21</sup>
3.3	10.58	5.5	5.5	7.3	16
24	9	6	5	9	20
	Flow 20" Pipe				

193 <sup>71</sup>	192 <sup>61</sup>	194 <sup>21</sup>	194 <sup>51</sup>
3.1	3.2	1.6	1.3
15	10		10

193 <sup>76</sup>	194 <sup>63</sup>	194 <sup>53</sup>	193 <sup>56</sup>	193 <sup>66</sup>	194 <sup>52</sup>	193 <sup>57</sup>
3.05	11.8	1.28	2.25	10.15	1.29	3.24
10	10	on cb	0	0	10	10
Grid	cb	195.81	Grading	Flow Line	cb	Grid
				Dist		Dist

S.M. SW. RR P. 20 Ad. CUMBERLAND TB 1652

Paradise Hills Drain

Block 19

2+14

1+96.96 Δ Lt

1+75

1+65.30 = Calc. Dist hot lines  
Construct inlet box here

1+64 = Beginning 15" Corrugated Iron Pipe Culvert

1+58

1+35

Lt

Rt

Rt 29

184 <sup>16</sup>	183 <sup>71</sup>	182 <sup>71</sup>	183 <sup>91</sup>	184 <sup>41</sup>	184 <sup>51</sup>	187 <sup>04</sup>
11.65	12.1	13.1	11.9	11.4	11.3	8.77
18.5	12	10	9		8.2	8.5
on Corp. Slope						11.11

184 <sup>41</sup>	184 <sup>21</sup>	182 <sup>81</sup>	184 <sup>11</sup>	184 <sup>61</sup>	184 <sup>91</sup>	187 <sup>55</sup>
11.9	11.6	13.0	11.7	11.20	10.9	8.26
25	4	12	10	on Hub	8.2	8.5
		on 15" Pipe		Hub	at wall	on wall

184 <sup>81</sup>	184 <sup>41</sup>	183 <sup>61</sup>	184 <sup>31</sup>	185 <sup>21</sup>	187 <sup>31</sup>
11.8	11.4	12.2	11.5	10.6	8.5
20	6	3		10	20
		Top W"			

184 <sup>61</sup>	184 <sup>31</sup>	182 <sup>42</sup>	184 <sup>31</sup>	185 <sup>11</sup>
11.2	10.5	13.39	11.5	10.7
20	6	Flank 15" Pipe	4	12

184 <sup>81</sup>	184 <sup>61</sup>	183 <sup>01</sup>	183 <sup>11</sup>	184 <sup>41</sup>	185 <sup>31</sup>	188 <sup>31</sup>
11.0	11.2	12.8	12.7	11.4	10.5	7.5
25	15	8	3		13	25
		at Hub	at Hub			

184 <sup>81</sup>	183 <sup>11</sup>	184 <sup>61</sup>	185 <sup>21</sup>	185 <sup>81</sup>	189 <sup>21</sup>
11.0	12.7	11.2	10.6	10.0	6.6
25	11	7		9	25
	at Hub				

195.81



Paradise Hills Drain  
Block 17

4

2

St. 30

3+10

3+09.44 Face Hd. Wall <sup>10'</sup>

2+93 = Pit in Drive on Lt.

TR 2.36 185.09 130.8 182.73

2+60.2

2+57.5 = Pit in Wall on Rt.

2+50.7

2+34

195.81

~~179.31~~  
~~2.5~~  
~~176.81~~

5.77  
7.99  
30" Corrugated  
Iron Pipe

180.99

179.81

4.10

5.28

on Hd Wall

on 15" Corc. Pipe from East

181.60

181.57

181.59

181.69

182.69

3.49  
5.4  
on Dr.

27.57  
3  
on Wall

3.5  
8.2

3.4  
8.2

2.9  
8.1  
on Wall

185.09

182.99

182.98

182.91

187.11

183.21

187.24

12.52  
5  
on Drive

12.83  
3  
on 12" Wall

12.9

8.70  
0  
on Wall

12.6  
8.2

8.57  
8.1

183.26

183.51

183.31

183.41

186.01

12.55  
8.5  
on Drive

12.30  
3  
on Wall

12.5

12.4  
8.2

9.80  
8.5  
on Wall

100.2-  
8.5  
on Wall

183.69

183.61

183.61

186.41

12.12  
13.2  
on Drive

12.2

12.9  
8.2

9.40  
8.5  
on Wall

195.81

Paradise Hills - Drain

Block 19

Warringside & Midnick  
chk. SW BR 331 179.78 ✓ 18 1692  
29

Inlet "A" = SW Cor Midnick

3+70.1 = End 30" Corrugated Pipe

3+55.8 = Inside edge Inlet Box

3+34.6 = Warringside

3+17 = East cb

3+16 = Inside edge cb  
18509  
2

14

2

31

Notes Reduced by Cal. Drain

18 11-3-48

176.42  
867  
Flow

178.82  
627  
Grading

179.77  
532  
cb.

175.47  
962  
Flow.

179  
Top cb

179.10

529  
on Grading

175.49

960  
Flow  
30" Pipe

180.10  
499  
Top cb.

179.85

526  
on Paving

180.40

969  
East Pav

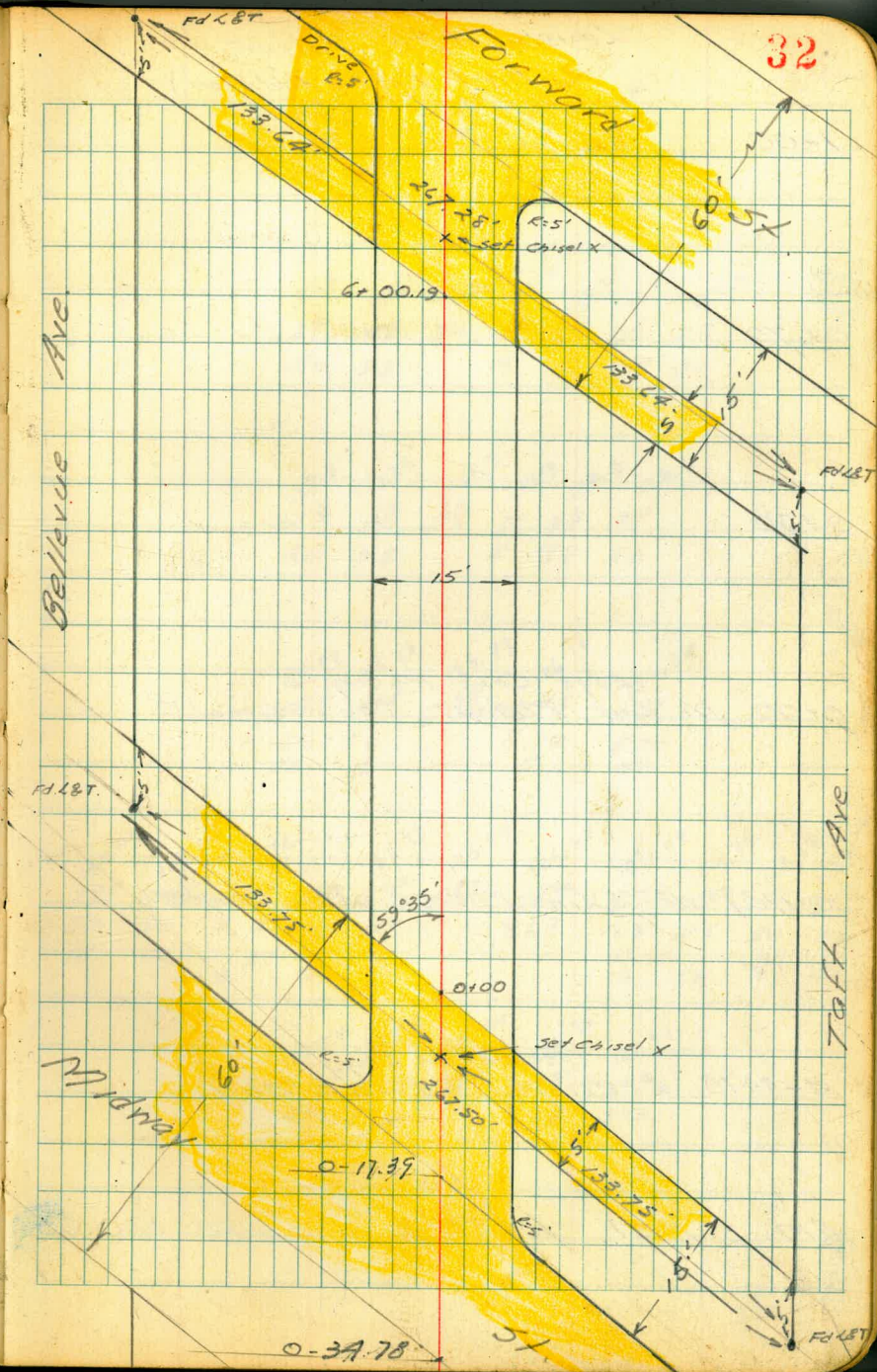
179.79

530  
East Pav

18509

7-21-49 X Sect. Alley Block 11  
 Hendricks Bird Rock Addition  
 Roberts  
 Greer  
 Corer  
 NO# 25020

INDEXED  
 W.K.  
 JUL 22 1949



Levels Alley Block II  
(Bird Rock Addition)

1+00

0+70

0+50

Edge Conc. Paving.  
0+00 No. Line Midway (on Diagonal)

0-17.39 No. Ch. Line Midway (on Diagonal)

(Section on Diag.)  
0-34.78 & Midway & Prod. & Alley

BM. 11.51  $\downarrow$  131.51  $\uparrow$  120.00

129.5 129.9 130.1 130.4 130.7  
~~20~~ 15 14 11 18  
 20 7.5 7.5 20

127.8 128.1 128.5 128.7 129.0 129.0 129.4  
~~5.7~~ 7.4 7.10 7.8 7.5 7.5 7.1  
 20 7.5 7.5 5 7.5 20

127.3 127.6 127.7 127.8 128.2 128.6  
~~7.2~~ 7.7 7.8 7.7 7.3 7.9  
 20 7.5 5 7.5 20

125.92 125.86 125.73 126.11 126.52  
~~5.59~~ 5.65 5.78 5.70 7.89  
 8.6 8.6 8.70 8.70  
 Ch. G G Ch. Ch.

124.44 123.84 125.72 125.11 125.32 125.64 125.97 126.09 126.75 127.52 128.18  
~~7.07~~ 7.17 5.79 6.40 6.19 5.87 5.54 5.42 7.26 5.89 5.33  
 50 50 17.5 17.5 8.69 8.69 11.3 11.3 50 50  
 Ch. G. Ch. Ch. G Ch. Ch. G Ch. G Ch.

123.74 125.69 126.04 126.36 127.91  
~~7.77~~ 5.82 5.47 5.15 5.60  
 60 8.69 8.69 50

131.51

NWBR Midway & Bellevue

Alley Block 11 Cont'd.

2+00

2+75 End Board Fence 7.3 Rt

2+57 Power Pole # JPA 5533 6.7 Lt.

2+50

2+44 Req Board Fence 7.8 Lt.

2+36 Req. Board Fence 7.6 Rt.

2+00

1+59.5 Power Pole # PASS21 6.4 Lt.

1+50

1+41 \$ Double Garage 14.2 Lt. (Rt. Ls)

T.P. 7.39  $\frac{137.44}{\wedge}$  1.46 130.05

1+06 \$ Garage 21.9 Lt. (Rt Ls)

Note (Lots Run Parallel to Midway)

$\frac{131.51}{\wedge}$

34

134.1 134.7 135.0 135.0 136.0 136.5  
~~5~~ ~~2~~ ~~2~~ ~~2~~ ~~1~~ 0.9  
 20 75 5 10 20

133.1 134.2 134.0 134.0 133.9 134.4 135.4  
~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~  
 20 75 5 5 75 20

131.5 132.3 132.5 132.8 133.0 133.4 134.1  
~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~  
 20 75 5 5 75 20

131.7 131.9 131.6 131.7 132.1 132.7  
~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~ ~~5~~  
 20 75 5 75 20

132.02

5.42  
 14.2  
 11

$\frac{137.44}{\wedge}$

129.66

1.85  
 21.9  
 11

Alley Block 11 Contd.

4127 & Double Garage 18.4 RT (RT LS)

4104 End Board Fence 7.8 Lt.

4103 Power Pole # 5575 4.8 Lt.

4100

3178 8" Tree 5.8 Lt.

3150

3138 & Single Garage 16.0 RT (RT LS)

3124 Board Fence 6.7 Lt.

TP. 7.36  $\frac{142.36}{\quad}$  2.44 135.00

2196 & 11" Conc slab 7.5 Lt.

$\frac{137.44}{\quad}$

138.69  
 $\frac{367}{18.4}$

137.0 137.3 138.4 138.5 138.2 138.1 139.9 139.9  
 $\frac{58}{20}$   $\frac{57}{8}$   $\frac{49}{7.5}$   $\frac{39}{4}$   $\frac{43}{5}$   $\frac{33}{7.5}$   $\frac{25}{20}$   $\frac{25}{20}$

135.6 136.2 137.1 137.4 137.0 136.6 137.5 138.8  
 $\frac{58}{20}$   $\frac{57}{8}$   $\frac{53}{7.5}$   $\frac{50}{5}$   $\frac{54}{4}$   $\frac{58}{7.5}$   $\frac{49}{7.5}$   $\frac{55}{11}$

138.52  
 $\frac{354}{16}$   
 F1

$\frac{142.36}{\quad}$

134.74  
 220  
 78

$\frac{137.44}{\quad}$

5+67 Power Pole # 514518H 57' Lt

5+37

5+00

4+90 & Double Garage Rt. (RIS.)

TP 4.67  $\frac{144.77}{1}$  2.26  $\frac{140.10}{1}$

4+85 Reg. Pickett fence 73' Lt

4+50

$\frac{142.36}{1}$

139.6 139.8 140.2 140.1 140.2 142.5 143.0  
 52 50 45 47 45 23 18  
 20 8 7.5 C. 12 22

139.5 139.5 140.5 140.1 140.3 140.3 144.1 144.0  
 52 53 47 47 45 45 07 08  
 20 8 7.5 7.5 9 16 25

139.7 139.7 140.1 140.1 140.6 141.1  
 51 51 47 47 42 37  
 20 8 7.5 7.5 20

141.27 141.53  
 350 334  
 152 207  
 Apron Fl

138.7 139.8 140.0 140.4 141.0 141.3  
 52 55 24 20 14 11  
 20 7.5 7.5 9 13

137.9 138.7 138.8 138.8 140.5 140.7  
 45 37 35 35 17 17  
 20 7.5 5 7.5 20

$\frac{142.36}{1}$

B 127 7.30 137.47 137.49

6+34.97 £ Forward & Prod & Alley  
(sect. on Diag)

6+17.58 So. Cb line Forward (on diag)

Edge Conc. Paving  
6+00.19 So. line forward section on Diag

144.77  
✓

SE Top Hydt Forward & Bellevue

	137.82	139.50	139.84	140.30	142.37
695	527	488	447	240	
50	869		869	50	

	138.67	137.98	139.99	140.40	140.84	141.25	141.93	142.86	143.48
610	629	478	437	393	352	282	121	121	121
50	50	869		869	174	174	50	50	
C6	G				G	CC	G	C6	C6

	141.31	141.27	141.18	141.55	142.05
546	350	353	322	272	
88	8.8		8.69	8.69	
C6	G		G	C6	

144.77  
✓



Johnson X-section Vista Verde Drive  
 Moore Muirlands Drive to Easterly Termination  
 Clark  
 Gregory

10-27-49 Set 2"X2" Rnd Hub & Disk  
 W.O. 25020 1+35 = Δ pt 16°00" Lt.

1+29.21 = Tie to Lot Cor. Pipe R.E. #32

INDEXED  
 N.K.  
 NOV 3 1949

0+81.21 = prop. line on Right

0+78.11 = Δ Hub

NOTES REDUCED  
 O'BYRNE 11/4/49

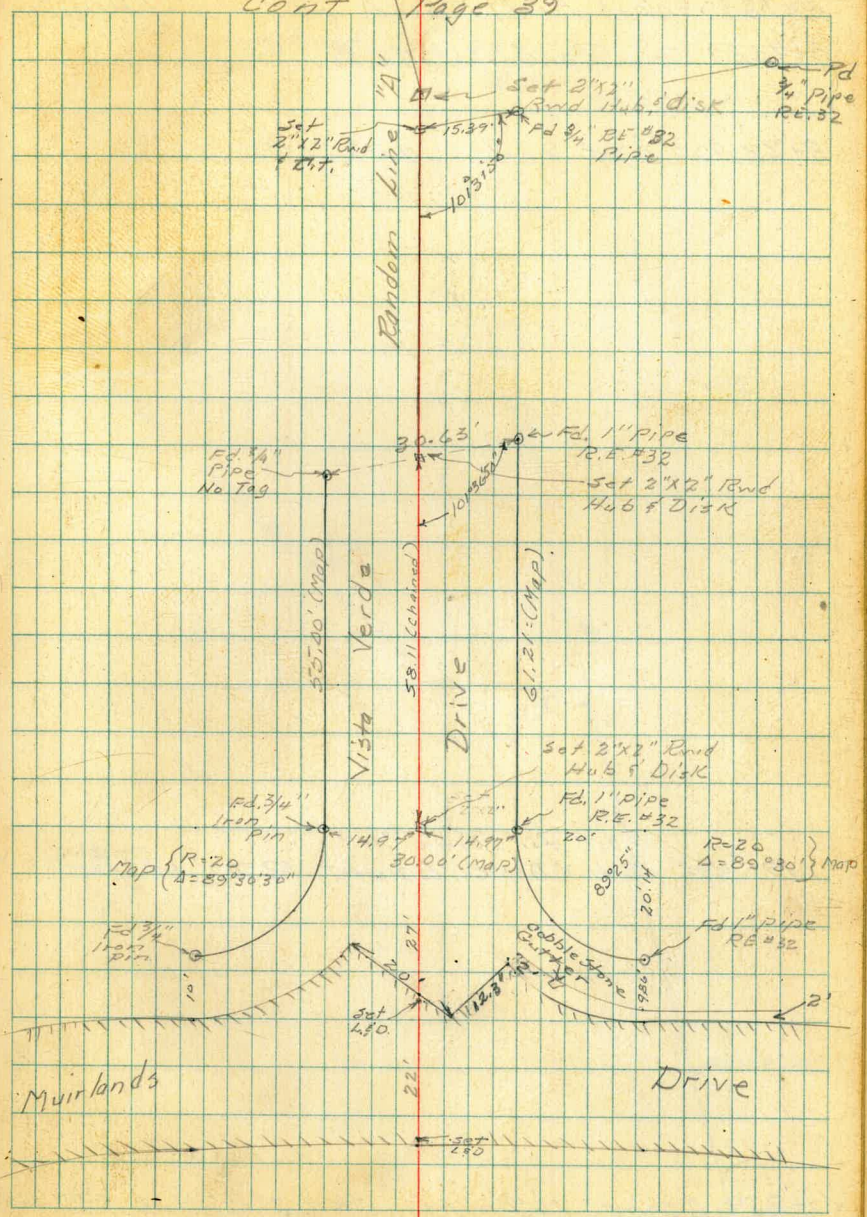
0+75 = prop line on left

See page 44  
 11/10/49

0+20 = Hub on Δ Vista Verde Drive

0+00 = Easterly Prop line Muirlands Drive

Cont Page 39

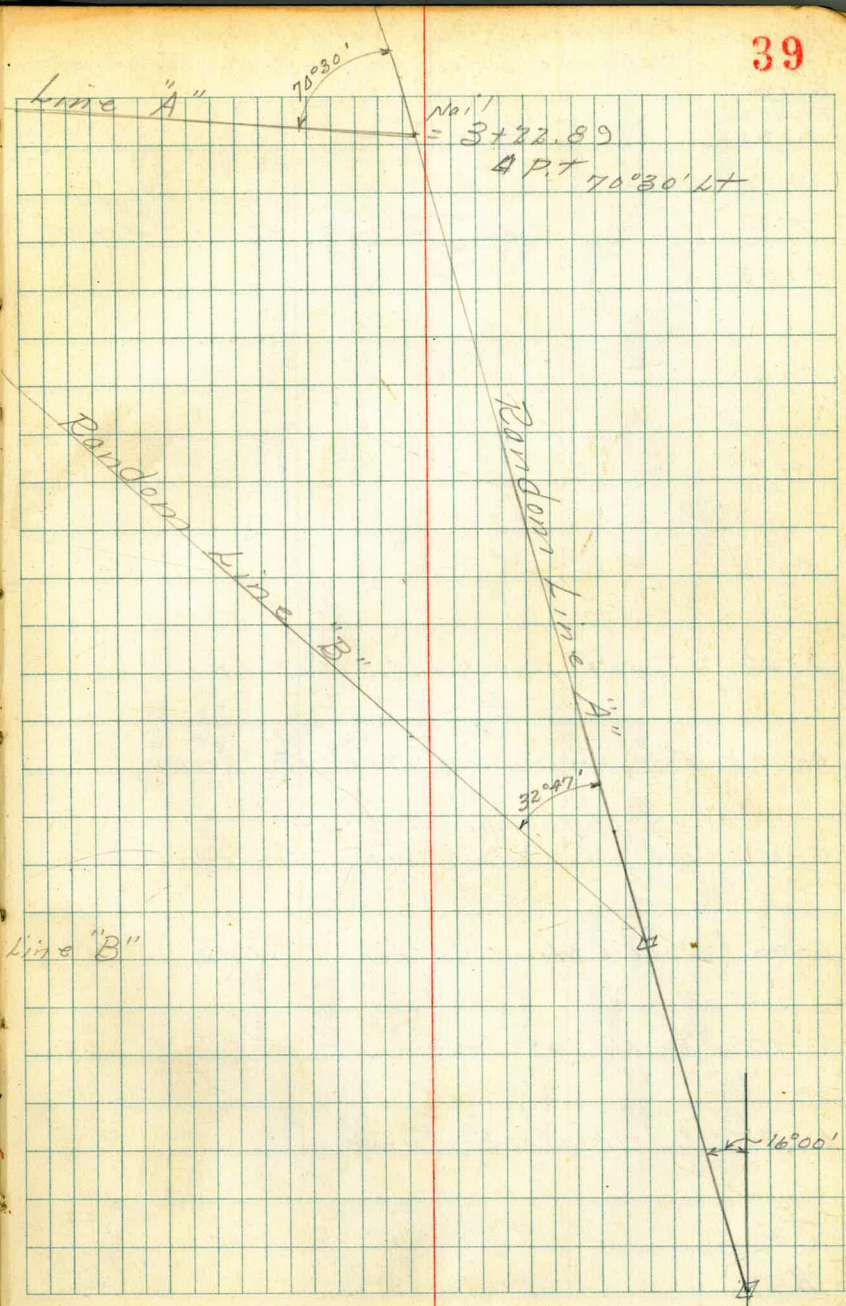


Random Nail  
 4+38.89 = Nail End Line "A"  
 3+93.89 = Random Line "B"

3+22.89 = Δ pt nail 70°30' Lt

P.O.T for Line "A"  
 1+91.89 = Hub & Disk Δ point 32°47' Lt for

1+35 = Δ point 16°00' Lt Set 2"x2" Hub & Disk



Cont from  
 P. 38

Johnson  
Clark  
Gregory  
Moore  
10-27-49.

X-section Vista Verde Drive  
Muirlands Drive to Easterly Termination

"A" Line

0+75 = Prop. Line to left  
T.P. 0.40 428.87 428.41  
420.38 12.71 419.98  
0+52

0+20

0+17

0+12

0+02 = Tip of Pavement - 10.7' Lt

0+00 = East Prop. Line Muirlands Drive

Tip of pavement 14' RT

0-01 = End of Cobble Stone Gutter 2' wide

0-08 = Cobble Stone Gutter 2' wide

0-10 = East Edge Pavement

0-20 = E Muirlands Drive

T.P. 9.86 441.18 431.52  
432.69 0.17 422.83  
431.49 418.33  
B.M. 13.16 425.00 409.84

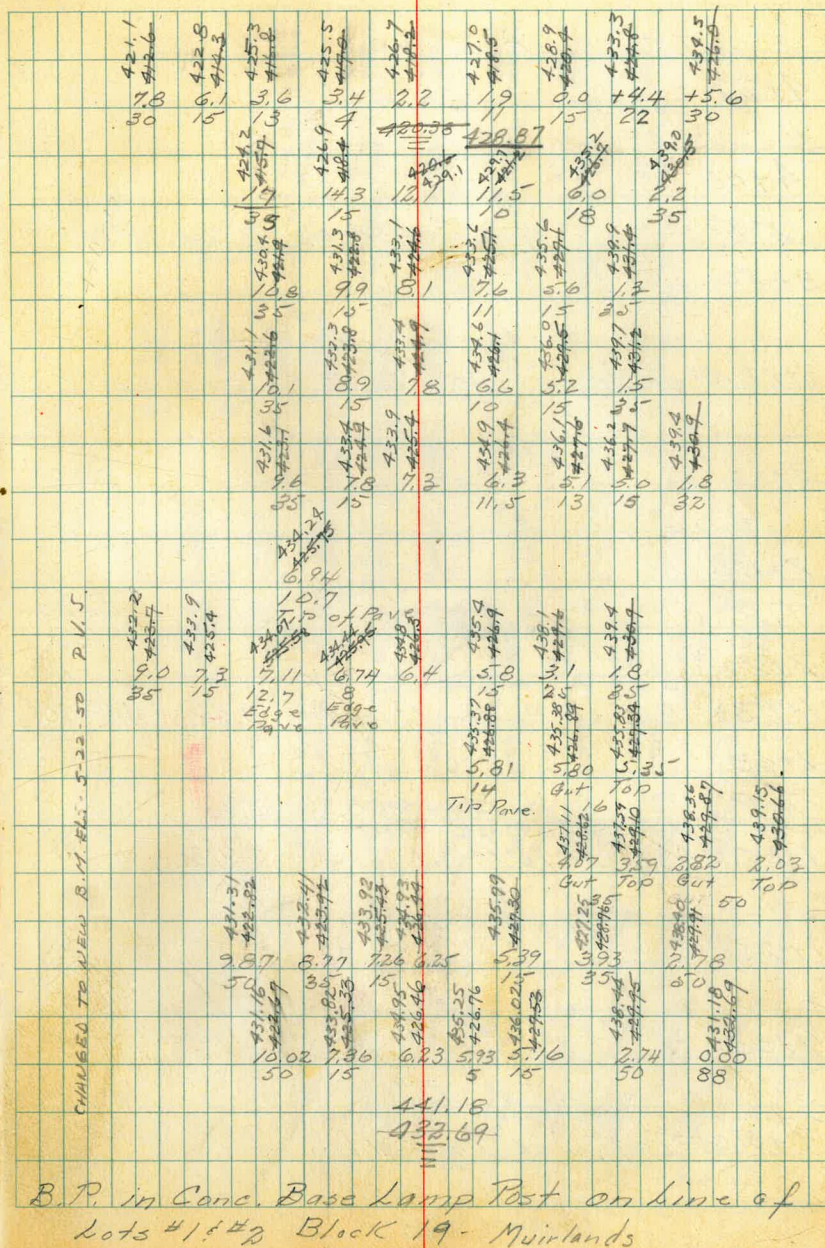
cont from Page 43

left

E

Right

40



X-section - Vista Verde Drive  
 Muirlands Drive to Easterly Termination

"A" Line

4+27				
4+00				
T.P.	4.95	406.51	12.74	401.56
3+50		398.03		392.07

3+72.89 = X Pt to Left 70°30'

3+00				
R+50				
T.P.	8.53	414.30	11.08	405.77
2+00		405.81		397.88
1+91.89 = P.O.T. on Random Line "A"			2.86	415.99
				465.50

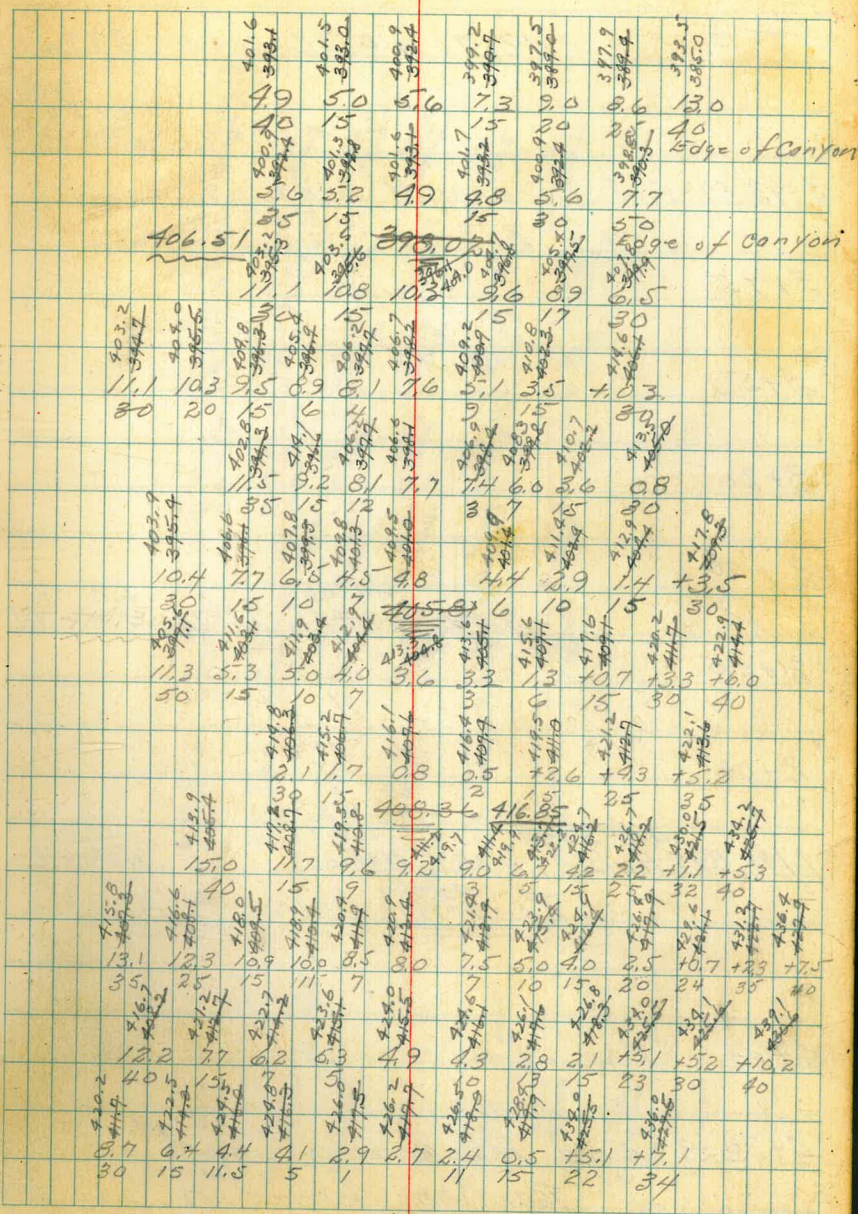
1+68				
T.P.	0.88	416.85	12.90	415.97
		408.36		407.48
1+35 = A point 16°00' Lt			9.22 on Hub	411.16

1+25				
1+00				

0+81.21 = Prop. line to Right

Left

Right



420.38 428.87

X-section - Vista Verde Drive  
Muirlands Drive to Easterly Termination

Left

Right

42

T.P. 12.71 410.22 0.00 397.51

0.02  
393.07  
4.46 393.05

3+93.89 = End Random "B" Line

3+75

3+50

3+20

3+00

T.P. 2.06 406.00 12.75 403.94  
394.51 395.48

2+50

2+05

414 32047  
1+91.89 = Hub 2.70 416.69 413.99  
408.20 405.50

Random Line "B"

4+64 = Edge of canyon

4+38.89 = End Random Line "A"  
Random Line "A"

Station	Left	Right
T.P. P.H.I.	0.0	6.6
Edge Canyon	80	50
Edge ca. 80	6.3	4.6
3+93.89	7.4	5.3
3+75	7.6	6.6
3+50	50	30
3+20	50	15
3+00	9.1	4.8
T.P.	14.7	13.2
2+50	50	30
2+05	9.1	4.8
1+91.89 = Hub	40	15
Random Line "B"		
4+64 = Edge of canyon	8.1	9.8
4+38.89 = End Random Line "A"	4.9	1.3
Random Line "A"	40	25
Edge Canyon		

406.51 398.02

Cont. on Page 40

				9.29
				409.84
		0.72	419.12	
12.68	419.85	0.45	407.17	
12.54	407.62	0.72	395.08	
13.05	395.81	0.10	382.76	
9.46	382.86		373.40	
				9.29
				521.39
		6.75	512.10	
4.49	518.85	4.91	514.36	
				10.15
				521.02
		7.40	511.87	
T.P.	9.69	519.27	0.14	509.58
T.P.	+12.15	509.72	0.24	497.57
				9.27
				500.62
		6.46	491.35	
T.P.	12.90	497.81	0.03	484.91
T.P.	12.89	484.94	0.05	472.05
T.P.	12.45	472.10	0.22	459.65
T.P.	12.90	459.87	0.05	446.97
T.P.	13.09	447.02	0.08	433.93
T.P.	12.08	434.01	0.22	421.93
T.P.	12.07	422.15	0.14	410.08

43

= B.M. in Bench Back

= B.P. Conc. Base Lamp post on line lot 142  
BIK 19 - Muirlands

B.P. Muirland Dr & Teatro - Base Lamp post

B.P. 5' N of Fire Hyd. in Paving  
Muirland Dr. & Sumidad Road

Ed & C.T. of Paving

Sly end tang - opp - NW 1/4 Cor 2 BIK 15  
Muirlands which is N'ly from La Cumbra

Note 9' discrepancy in BM elevations cap  
11/16/49

N.E. B.P. End of Curb Inlet  
Muirland Dr & Carrino Teatro

# Muirlands Drive

300' M 1/2" } From Vista Verde Drive.  
300' S 1/4" }

11-10-49

**INDEXED**

Sommermeier

McCoy

Allen

Rorer

W.O. 25010

N.K.

JAN 20 1950

□ = Fds. 1/2" Tack

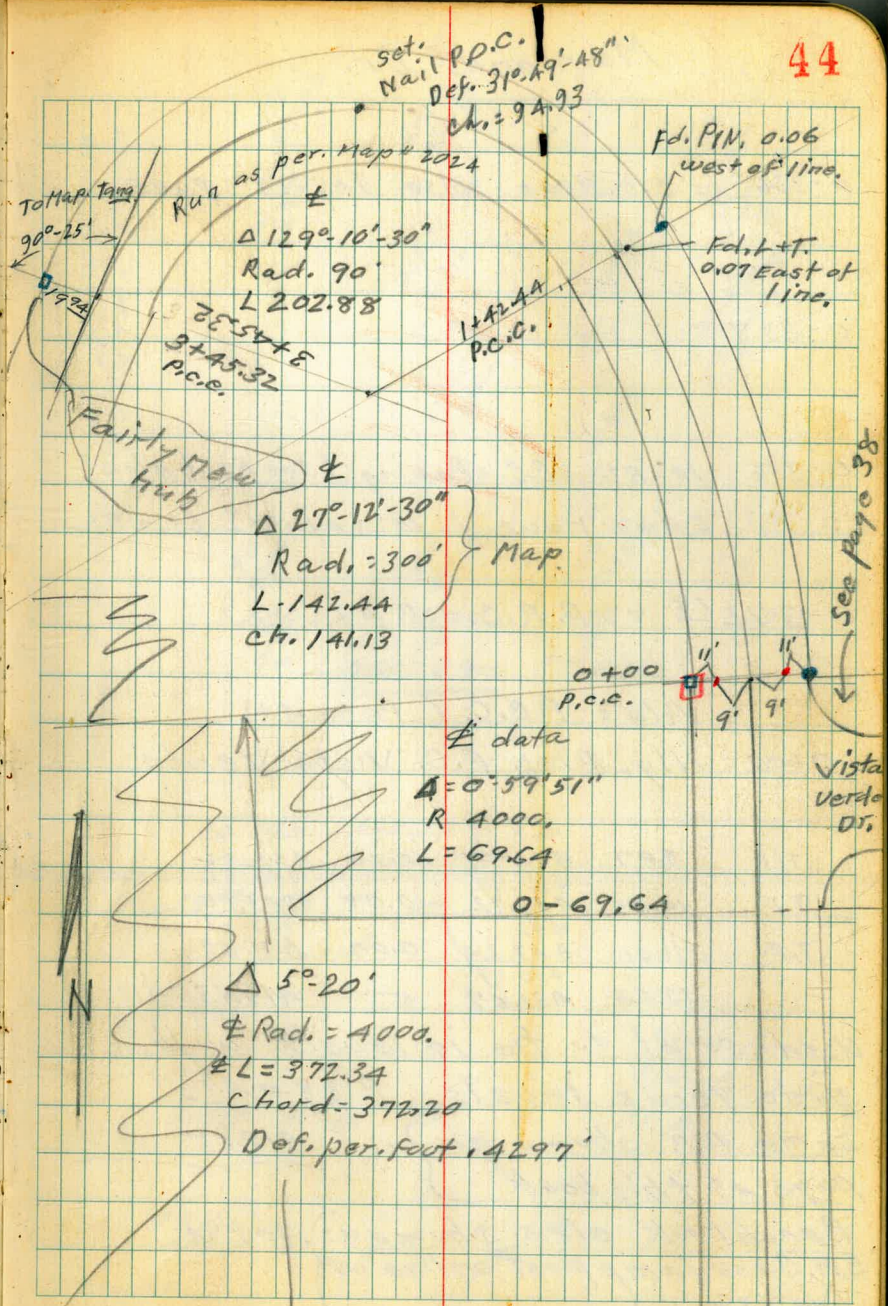
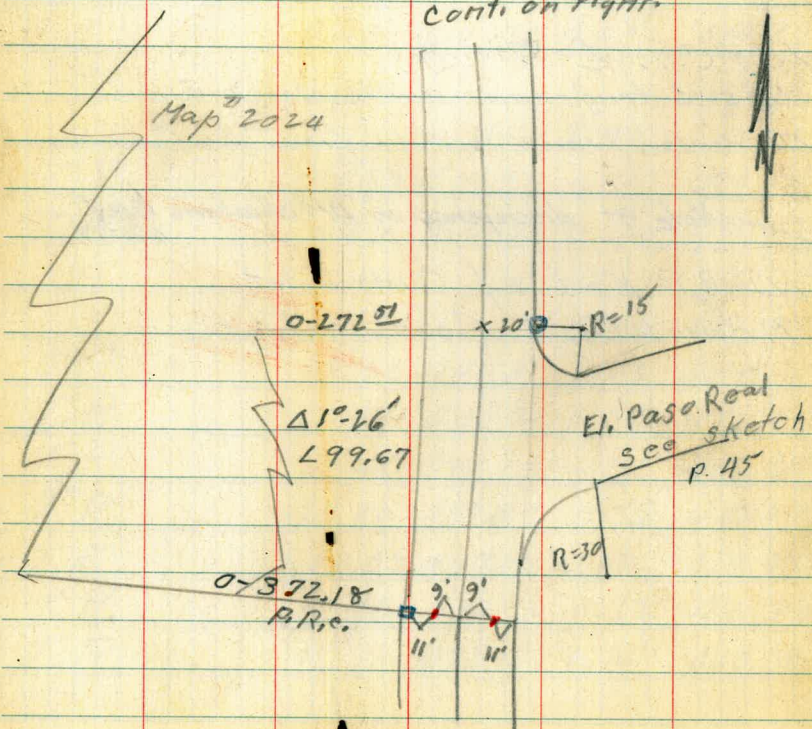
● = Fds. Iron pins

▣ = Replaced Fds. Hub + tack with hub + dist.

○ = Fds. Pipe - R.F. #32

20' wide Conc. Pave. on Muirlands Dr.

Cont. on right.



Cont. from left.

Muirlands Dr.

0-326° = E.C. Pave also Jog in pave.

0-338

0-356 - 10' RT. = B.C. Paving (See Rt. below)  
Edge pave. = 10' (Approx) Lt. + Rt.

0-372<sup>18</sup> = P.R.C. (P. 44)

A10 = P.C.C. (Page 44)

0+00 = Nly. Prop. E.C. Vista Verde

T.P.	8.07	460.19	0.80	452.12
		460.99		452.92
T.P.	10.50	452.92	0.08	442.36
		453.72		443.16
T.P.	11.61	442.	0.09	430.83
		443.24		431.63
	12.54	430.87		419.13
		431.67		418.33

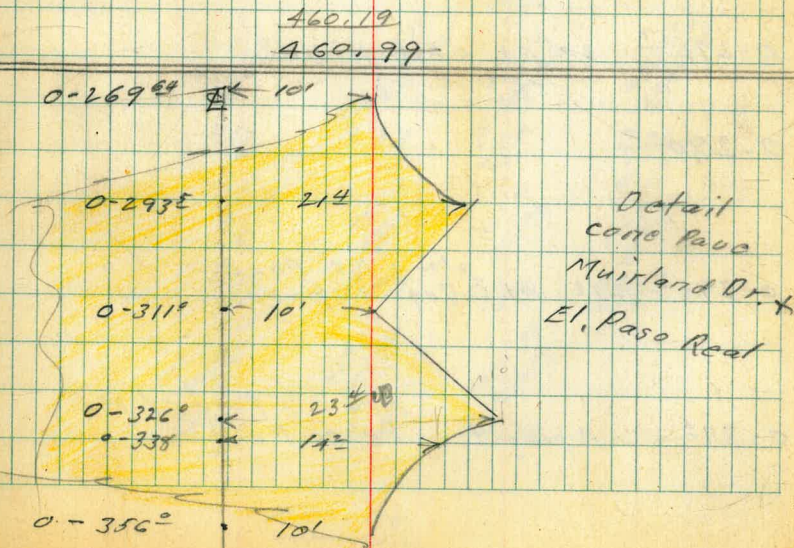
Used so as to tie in levels with  
Vista Verde levels (P 38 + 43)

same B.P. shown on } 419.13 418.33  
page 43 this book }

Benchbook elev shown as 409.84  
B.M. Base lamp post online of  
lots L12  
Blk. 19 Muirlands

changed to agree with new B.M.-P. 49  
BY SMITH - 5-17-50

455.32 456.12	455.24 456.26	455.37 456.17	455.33 456.19
4.87	4.73	4.82	4.80
10		10	23.4
E.P.		E.P.	E.P.
456.12	456.16	456.24	456.14
3.83	3.83	3.95	4.05
10		10	14E
			E.P.
457.12	458.16	457.38	458.14
2.51	2.51	2.61	
10		10	
		B.C.	
458.12	458.16	458.33	458.12
1.46	1.40	1.46	1.47
10	460.19	9	10
E.P.	460.99	on disk	E.P.





Muirlands Dr.

T.P. <sup>disk</sup> 9' 47.2 at 0-34<sup>2</sup>

T.P. 0.61 436.20 13.13 435.59 T.P. #1

0-34<sup>2</sup> =  $\phi$  Vista Verde

See P. 40. for paving detail

0-69<sup>6A</sup> = 10' Rt. = Prop. B.C. Vista Verde

0-169<sup>6A</sup>

T.P. 0.51 447.92 12.78 447.61 448.21

0-269<sup>6A</sup> = 10' Rt. = Approx. F.C. Edge para

0-272<sup>57</sup> 20' Rt. = Ed. pipe.

0-280<sup>2</sup>

0-293<sup>5</sup> 21<sup>2</sup> Rt. also = B.C. Pave. Jeq 17 para.

0-311<sup>2</sup> Approx  $\phi$  Also  $\Delta$  in pave cd go. Paseo Real

<del>434.79</del> <del>435.59</del>	<del>434.95</del> <del>435.75</del>	<del>434.91</del> <del>435.71</del>	
<u>13.13</u> 10	12.97	<u>13.01</u> 10	
<del>437.31</del> <del>438.11</del>	<del>437.44</del> <del>438.24</del>	<del>437.37</del> <del>438.17</del>	
<u>10.61</u>	10.48	<u>10.55</u>	
<del>444.31</del> <del>445.11</del>	<del>444.48</del> <del>445.28</del>	<del>444.40</del> <del>445.20</del>	
<u>3.55</u> 10	3.44	<u>3.52</u> 10	
	<u>447.92</u>		
	<u>448.72</u>		
<del>451.42</del> <del>452.22</del>	<del>451.52</del> <del>452.32</del>	<del>451.44</del> <del>452.24</del>	
<u>8.77</u> 10	8.67	<u>8.75</u> 10	E.R.
<del>452.09</del> <del>452.89</del>	<del>452.26</del> <del>453.06</del>	<del>452.14</del> <del>452.94</del>	<del>452.15</del> <del>452.95</del>
<u>8.10</u> 10	7.93	<u>8.05</u> 10	<u>8.04</u> 11 <sup>2</sup>
<del>453.03</del> <del>453.83</del>	<del>453.16</del> <del>453.96</del>	<del>453.14</del> <del>453.94</del>	<del>453.33</del> <del>454.13</del>
<u>7.16</u> 10	7.03	<u>7.05</u> 10	<u>6.84</u> 21 <sup>2</sup>
<del>454.32</del> <del>455.12</del>	<del>454.40</del> <del>455.20</del>	<del>454.39</del> <del>455.19</del>	<u>6.84</u> E.R.
<u>5.87</u> 10	5.71	<u>5.80</u> 10	

460.99

Muirland Dr.

3+45<sup>32</sup> P.C.C. Def. 64°-35'-15"

3+92<sup>44</sup> Def. 63°-39'-36"

T.P. 2.97  $\frac{413.51}{414.31}$  12.67  $\frac{410.54}{411.34}$

2+92<sup>44</sup> Def. 47°-44'-42"

(Curve run as per Map D 2024)

2+42<sup>44</sup> Def. 31°-49'-48" (P.O.C. Nail)

0+19 B.M. P.44 A.89 419.12 419.13

1+92<sup>44</sup> Def. 15°-54'-54"

Ret. 1+42<sup>44</sup> P.C.C.

1+42<sup>44</sup> = P.C.C. Lt. Def. 13°-36'-15" Lt.

T.P. 0.27  $\frac{423.21}{424.04}$  12.46  $\frac{422.94}{423.74}$

0+71<sup>23</sup> = Mid curve

0+00 = P.C.C. = 10' RT. = Prop. E.C. Vista Verde

436.20

47

~~406.76~~  
~~407.50~~

$\frac{6.25}{10}$

~~407.00~~  
~~407.80~~

$\frac{6.51}{10}$

~~410.53~~  
~~423.52~~

$\frac{12.68}{10}$

~~413.82~~  
~~420.81~~

$\frac{9.39}{10}$

~~417.28~~  
~~410.27~~

$\frac{5.23}{10}$

~~420.89~~  
~~433.88~~

$\frac{2.32}{10}$

~~426.18~~  
~~426.18~~

$\frac{2.22}{10}$

~~432.95~~  
~~432.95~~

~~432.09~~  
~~432.89~~

$\frac{3.35}{10}$

E.P.

disk

~~407.16~~  
~~407.96~~

$\frac{6.35}{10}$

~~407.42~~  
~~408.22~~

$\frac{6.09}{10}$

$\frac{413.51}{414.31}$

~~411.11~~  
~~424.10~~

$\frac{12.10}{10}$

~~414.67~~  
~~427.66~~

$\frac{8.54}{10}$

~~418.17~~  
~~431.16~~

$\frac{5.04}{10}$

~~421.57~~  
~~434.56~~

$\frac{1.64}{10}$

~~423.21~~  
~~426.68~~  
~~427.48~~

$\frac{8.72}{10}$

~~432.34~~  
~~437.14~~

$\frac{3.06}{10}$

435.40

436.20

~~407.32~~  
~~408.12~~

$\frac{6.19}{10}$

~~407.56~~  
~~408.36~~

$\frac{5.25}{10}$

~~411.47~~  
~~424.46~~

$\frac{11.74}{10}$

~~415.07~~  
~~428.06~~

$\frac{8.14}{10}$

~~418.69~~  
~~431.68~~

$\frac{2.52}{10}$

~~422.03~~  
~~435.02~~

$\frac{1.18}{10}$

~~426.95~~  
~~427.75~~

$\frac{8.45}{10}$

~~432.42~~  
~~437.22~~

$\frac{2.98}{10}$

E.P.

## Bench check. Muirlands

Rushville + Eads to

Sommarmeyer				1-20-50	
McCoy.					
AHart					
Bunch					
#18	12.06	305.22 305.72	0.26	293.16 293.66	
#17	9.62	293.42 293.92	9.62	283.80 284.30	B.M. #6
#16	12.93	293.42 293.92	0.10	280.49 280.99	
#15	12.07	280.59 281.09	0.22	268.52 269.02	
#14	12.40	268.74 269.24	0.62	256.34 256.84	
#13	10.81	256.96 257.46	10.81	246.15 246.65	0.28 (246.93)
#12	12.87	256.96 257.46	1.24	244.09 244.59	B.M. #5
#11	10.38	245.33 245.83	0.12	234.95 235.45	
#10	12.35	235.07 235.57	0.06	222.72 223.22	
#9	12.41	222.78 223.28	0.66	210.37 210.87	
#8	11.26	211.03 211.53	4.57	199.77 200.27	B.M. #4
#7	5.47	204.34 204.84	2.18	198.87 199.37	
#6	12.30	201.05 201.55	0.44	188.75 189.25	
#5	12.11	189.19 189.69	2.85	177.08 177.58	B.M. #3
#4	10.15	179.93 180.43	0.48	169.78 170.28	
T.P. #3	12.85	170.26 170.76	0.60	157.41 157.91	
T.P. #2	10.52	158.01 158.51	7.71	147.49 147.99	B.M. #2
T.P. #1	12.66	155.20	0.78	142.54	
Eads + Rushville	12.27	143.32	—	131.05	N.E. B.P. B.M. #1.

checked &amp; changed 5-17-50 P. SMITH

Terrace.  
10' Ely. of Wly. line lot 5 Muirlands  
B.P. in sly. ch. 5' Ely. from ch. E.C. at fire plug

(Bench book Elev. = 246.93)  
on small summit. (50' Ely. of T.P. #12 (= B.M. #5))  
school + Muirlands. About midway on longest tangent.  
Lead + Nail - 1' from So. Edge pave. 1/2 way between LaJolla High

Chisel □ Nly. Edge Pave. 3' So. of Pole # 619062H

Chisel □ sly. edge Pave. 2' North of Pole # E19059H

Chisel □ Top Cor. driveway at #927

= N.W. 2' L + T. Rushville + Fay

Muirlands Drive  
Bench check

#39			6.65	520.54 <del>524.04</del>	B.M. #10
#38	4.43	527.19 527.69	2.97	522.76 523.26	
#37	11.79	525.73 526.23	0.75	513.94 514.44	
#36	12.08	514.69 515.19	0.11	502.61 503.11	
	S.S.		2.92	499.80 500.30	B.M. #9
#35	12.96	502.72 503.22	0.46	489.76 490.26	
#34	11.50	490.22 490.72	0.30	478.72 479.22	
#33	12.56	479.02 479.52	0.62	466.46 466.96	
#32	12.40	467.08 467.58	1.27	454.68 455.18	
#31	12.53	455.95 456.45	0.05	443.42 443.92	
	S.S.		8.67	434.80 435.30	
#30	13.21	443.47 443.97	0.46	430.26 430.76	
#29	12.39	430.72 431.22	1.65	418.33 418.83	B.M. #8
#28	11.56	419.98 420.48	0.07	408.42 408.92	
#27	12.18	408.49 408.99	0.28	396.31 396.81	
#26	11.98	396.59 397.09	0.47	384.61 385.11	
#25	12.47	385.08 385.58	2.98	372.61 373.11	B.M. #7
#24	12.10	375.59 376.09	0.03	363.49 363.79	
#23	12.32	363.52 364.02	0.21	351.20 351.70	
#22	12.65	351.41 351.91	0.95	338.76 339.26	
#21	12.94	339.71 340.21	1.19	326.77 327.27	
#20	12.12	327.96 328.46	0.32	315.84 316.34	
#19	11.93	316.16 316.66	0.99	304.23 304.73	
		305.72			

19  
← is this shown as Summit Rd. in bench book  
+ Muirlands Dr.  
B.P. in Pav. 5' Nly. Fire Hydr. La Jolla Mesa Dr.

Bench book shows 500<sup>6</sup>  
Nly. end of Inlet.  
NE B.P. Camino Del Teatro + Muirlands Dr.

299.84  
21  
324.84  
435.59 = T.P. #1  $\frac{1829}{4.6}$

409.84 = Bench Book EL.  
B.P. in Lamp post base north of Pav on line of  $\frac{1-2}{19}$

Intersection Muirlands Dr. + El Camino Del Teatro.  
B.P. in base of lamp post. N. Side of Pav.

opposit driveway into 6758 Muirlands Drive  
L+T. @ Pav. = B.C. 6' East of. W. line Muirlands

Alley B1K 43 Ocean Beach

50

X-Sec Per grade Est.

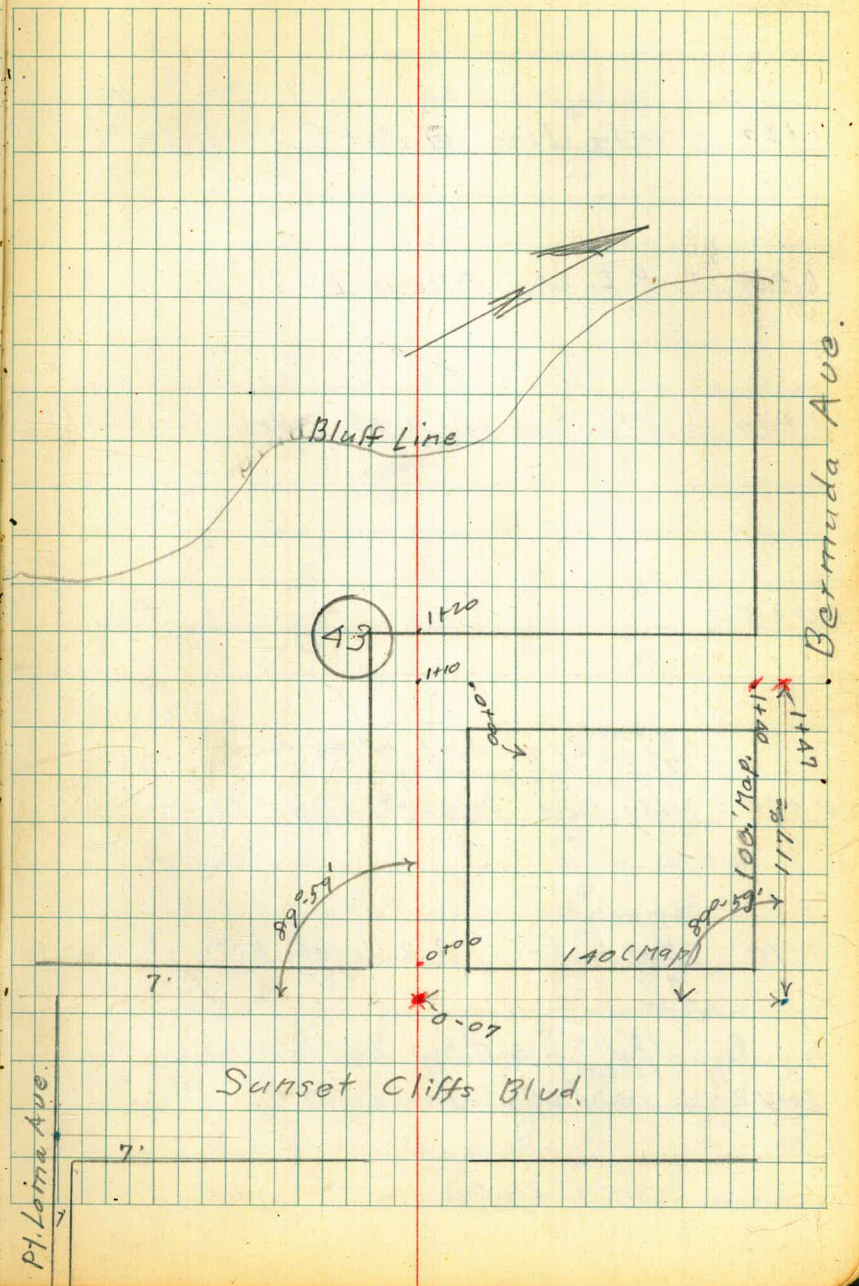
Oct 19, 1950  
W. 025020.

Sommermayor  
Begg  
Allen.

**INDEXED**  
*JK*  
**OCT 19 1950**

- = Ed. 7' L.L.T. [P. sheet # 784
- = set Nail
- x = cut cross in conc.

Reduced by P. Hom



East +  
west

Alley BIK 43 Ocean Beach

1+20 = Wly line of N.+S. Alley - to North

1+10 = P.I. of Alleys ±

1+00 = Ely line of N.+S. Alley to north

0+50

99' N. } = end of alley curbs.  
97' L. } = End Exist pave.

0+00 = Wly line sunset cliffs Blvd.

92' N. } = E.C. 2' Rad. cb. Ret.  
92' L. }

12' N. } = B.C. 2' Rad. cb. Ret.  
12' L. }  
0-12 = Wly cb Sunset Cliffs Blvd

3.57 24.68 - 21.11

51

20.0	20.0	19.9	20.0
$\frac{4.7}{60}$	$\frac{4.7}{10}$	4.8	$\frac{4.7}{10}$

20.0	19.8	19.5
$\frac{4.7}{10}$	4.9	$\frac{5.2}{10}$

19.6	19.5	19.6	19.5	19.6
$\frac{5.1}{60}$	$\frac{5.2}{10}$	5.1	$\frac{5.2}{10}$	$\frac{5.1}{60}$

19.30	19.50	19.20	19.59	19.77
$\frac{4.88}{92}$	$\frac{5.18}{92}$	5.46	$\frac{5.09}{92}$	$\frac{4.91}{92}$
cb end	G		G	cb end

19.40	19.16	19.28	19.63
$\frac{5.28}{92}$	$\frac{5.52}{92}$	$\frac{5.40}{92}$	$\frac{5.05}{92}$
cb.ec.	G	G	cb.ec.

19.34	19.93	19.29	19.10	19.16	19.19	19.63	19.33	19.74
$\frac{5.34}{62}$	$\frac{5.75}{62}$	$\frac{5.39}{12}$	$\frac{5.58}{12}$	5.52	$\frac{5.49}{12}$	$\frac{5.05}{12}$	$\frac{5.35}{62}$	$\frac{4.89}{62}$
cb	G	cb.ec.	G	24.68	G	bc.	G	cb

N.W.B.P. Bermuda + Sunset Cliffs Blvd.

Nly + Sly. Alley Blk. 43 O.B.  
 Orig B.M. - P. 51 5.66 21.10 (21.11)  
 .01' ok

1+60 = Sly. Cl. line Bermuda.

1+58  $\left. \begin{matrix} 10' \text{ RT} \\ 99' \text{ Lt} \end{matrix} \right\} = \text{B.C. 2' Rad cb. Ret.}$

T.P. 6.36 26.76 428 20.40

$\left. \begin{matrix} 10' \text{ RT} \\ 99' \text{ Lt} \end{matrix} \right\} = \text{start alley curbs}$

1+40 = Sly line Bermuda = start Pavc.

115 Rt. = end stucco house

1+22 12<sup>s</sup> Lt. = end 3 car Gar.

1+00 115 Rt. = start stucco house

0+93 12<sup>s</sup> Lt. = start 3 car Gar. floor.  
dirt

0+50

0+00 = Nly. line of E+W. Alley

±

52

21.25	20.39	20.12	20.32	20.32	20.32	20.58	19.99	20.42
5.81 62 cc	6.37 62 G	6.04 72 cc. l.c.	6.44 72 G	6.44	6.43 72 G	5.18 72 cc	6.77 82 G	6.34 62 cc
	20.13	20.34				20.93	20.62	
	6.09 99 cc. B.C.	6.42 99 G		26.76		6.33 101 G	6.14 101 cc. B.C.	
	20.12	20.58	20.38		20.68	20.71		
	3.96 99 cc	4.10 99 G	4.30		4.00 101 G	3.91 101 cc.		
		20.13						
		4.4 125 Floor						
	20.2	20.1	20.2	20.2				
	4.5 10	4.6	4.5 10	4.5 115 at house				
	19.5 4.9 125 Gar. Floor							
	19.9	19.5	19.7					
	4.8 10	5.2	5.0 10					
	20.5	20.0	19.4	19.6				
3.8 60	4.7 10	5.3	5.2 10					

24.68

Roberts  
Cota  
Moore  
Pollen  
5-15-51  
no 2+530

Location of Trees for Storm  
Drain - Block 4 Paradise Hills  
see Page 10 this FB

- 8+27 0.0 Lt End berry Patch
- 8+07 6' Lt Begin Boysenberry Patch
- 8+03 10<sup>1</sup>/<sub>2</sub>' Lt to Fig 3"
- 7+98<sup>5</sup> 5' Rt to Apricot 4"
- 7+88 17<sup>5</sup>/<sub>2</sub>' Lt to Citrus 2"
- 7+81<sup>E</sup> 0.7' Lt to Apple 1" (High Dead Bad Shape)
- 7+74 2<sup>1</sup>/<sub>2</sub>' Rt to Dove House 5x38' (Moveable)
- 7+32 12' Lt to Apricot 2"
- 7+21 Lt 6<sup>1</sup>/<sub>2</sub>' to Native bush  
Rt 2<sup>1</sup>/<sub>2</sub>' to SE Cor. of shed 6<sup>1</sup>/<sub>2</sub>' x 5' (Not Much)
- 6+94<sup>80</sup> Plan Sta. for Cleanout  
E Angle Pt. Lt. 20" 11' 30" Set Hub & Disc  
Trees Located from above proposed construction.

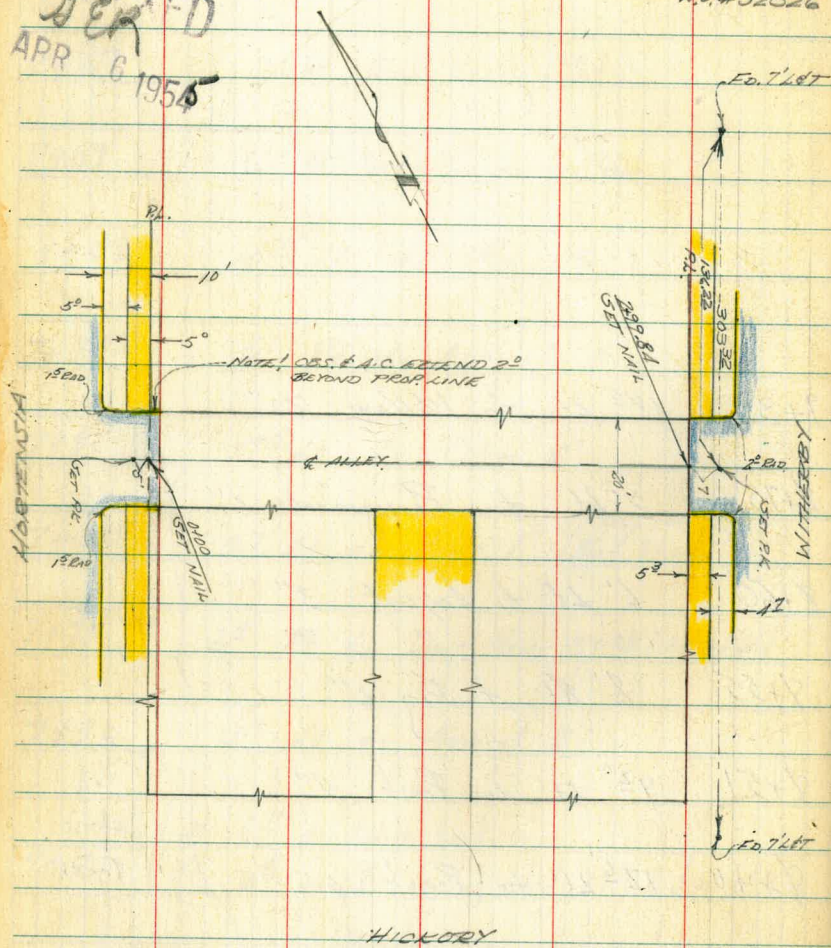
- 9+31 18<sup>5</sup>/<sub>2</sub>' Lt to Willow 20"
- 8+75 2' Lt to Pomegranate 1"
- 8+60 6' Lt to Logant 3"
- 8+55 8' Rt to Fig 2"
- 8+51 9<sup>1</sup>/<sub>2</sub>' Lt to Peach 4"
- 8+40 12<sup>1</sup>/<sub>2</sub>' Lt to Peach 4"
- 8+33 13' Rt to Shed 8<sup>1</sup>/<sub>2</sub>' x 6<sup>1</sup>/<sub>2</sub>' (To be moved)
- owner  
Not  
too  
particular  
of  
these  
trees



7-5/8" ALLEY IN EAST STOCKTON HTS.  
 IN BLK. BETWEEN ET. STOCKTON DR. & HICKORY -  
 - & WITHERBY & HORTENSIA

COTA  
 CARPER  
 BEGG  
 KELLEY  
 1-04-55  
 NO. # 32526

INDEXED  
 APR 6 1956



WITHERBY ST.  
 50' ST.  
 30' ROADWAY  
 12' C.S. TO WALK  
 53' WIDE WALK  
 A.C. PAVING

HORTENSIA  
 50' ST.  
 30' ROADWAY  
 52' C.S. TO WALK  
 52' WIDE C.S.  
 A.C. PAVING

0+22 10<sup>2</sup> RT. BEGIN 3° HIGH WOOD FENCE

0+21 { 11° RT. END 4° WIDE HEDGE  
92 RT. TO ♀ RR# 2218

0+15

0+06 11° RT. BEGIN 4° WIDE HEDGE

0+02 END OBS. & A.C.

0+00

0-10 E'LY CB. LINK HORTENSIA

0-25 ♀ HORTENSIA

B.M. 25106 M.W.B.P. HICKORY & WITHERBY

DIRECT ELEV. ROD USED

Lt.

℄

Rt.

25519 15 HSE.	25518 10	25515	25512 6	25418 10	25418 20
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25589 10 END OB.	25585 10 944	25505	25510 10 944	25517 10 OB.
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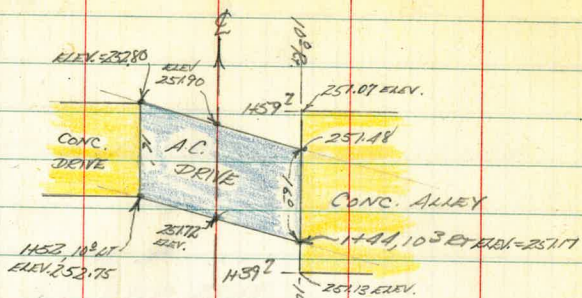
25589 10 OB.	25585 10 944	25499	25502 10 944	25513 10 OB.
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25723 50 OB.	25680 50 944	DRIVE 115 50 944	25531 115 50 944	25473	25435 115 50 944	25490 115 OB. 50.	25276 50	25332 50
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25268 75	25262 25	25557	25414 25	25263 75
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DIRECT ELEVATIONS

7-SEC ALLEY IN FT. STOCKTON Hqs. - CONT'D.



H39 2 10' RT. TO EDGE OF CONC. PAVING OF ALLEY TO SOUTH

H39 8' RT. TO  $\phi$  P.P. #A2222

H28 9' RT. DEAD MAIL ENTERS GRD.

H25 10' LT. TO 3' WIDE CONC. WK.

H21 10' RT. END 3' HIGH WOOD FENCE

H00 10' LT. BEGIN 6' HIGH WOOD & WIRE FENCE

0193 20' LT. TO  $\phi$  SINGLE GARAGE CONC. FLOOR

0150

LT.

£

RT.

56

251.8	251.7	252.6	251.9	251.13	250.68	249.51
20	10	8		10 1/2	25	50
				EDGE		
				CONC.		

251.00  
10  
CONC.

251.9	251.1	251.0	251.1	253.5	252.6	252.1
20	10	6		6	10	20

251.64  
27.0  
FLOOR

256.0	255.9	251.9	251.9	251.5	253.9	253.9
20	10	1		8	10	15

2473 10° RT BEGIN 3° WIDE HEDGE

2472 10° RT. END 4° HIGH BOARD FENCE

2450 10° LT. BEGIN 6° HIGH BOARD FENCE

2441 7<sup>2</sup> LT. TO 15° WIDE CONC. DRIVE TO SINGLE GAR.

2400 10° LT. END 7<sup>5</sup> CONC. WALL.

1468 10<sup>5</sup> LT. BEGIN 7<sup>5</sup> HIGH CONC. WALL

1462, 10<sup>5</sup> RT. BEGIN 4° HIGH BOARD FENCE

1460 10<sup>4</sup> LT. TO 16° WIDE DRIVE TO DOUBLE GARAGE

1459<sup>2</sup> 10° RT TO EDGE OF CONC. OF ALLEY TO SOUTH

1449<sup>2</sup> E OF ALLEY TO SOUTH

256A	256A	255A	254A	254L	253L	253L
20	10	7		10	11	15

256.53	255.55
13 <sup>7</sup>	7 <sup>7</sup>
FLOOR	LIP
(CONC)	

2527	252L	2537	253.0	2529	252.1
10	10	5		10	20
Foot	GED.				

2518	2529	2518	2520	2515
10 <sup>5</sup>	10 <sup>5</sup>		10	15
Foot	GED.			

25172	25277
19 <sup>2</sup>	10
FLOOR	LIP
CONC.	DRIVE

25147	250.81	249.19
10 <sup>2</sup>	25	50
EDGE		
CONC.		

251.87	250.15	249.11
10 <sup>3</sup>	25	50
EDGE		
CONC.		

CHECK B.M. 251.04 = 251.06 N.W. COR. HICKORY & WITHERBY

342.84 £ WITHERBY

3409.84 N.W. COR. LINE WITHERBY

2499.84 N.W. PROP. LINE WITHERBY

2481 96 FT. END CO. HIGH BOARD FENCE

257.33	258.10	257.50	256.52	255.61
50	25		25	50

256.89	259.11	257.45	256.97	256.59	256.11	256.58	256.12
50	50	12	12		12	12	50
CB	94	CB	94		94	CB	94
		BC.				BC.	

257.55	257.08	256.70	256.70	256.90
10	10		99	99
TOP	A.C.		A.C.	CB
CB	94		94	TOP

255.12  
50  
CB

A ledger page with horizontal green lines and four vertical red margin lines. The page is blank.

A ledger page with horizontal green lines, a vertical red margin line, and a green grid pattern. The page is blank.

A ledger page with 5 columns and 25 rows. The columns are defined by four vertical red lines. The first column is the widest, followed by three columns of decreasing width, and a narrow fifth column on the right. The rows are defined by horizontal green lines.

A ledger page with 10 columns and 25 rows. The columns are defined by nine vertical green lines, creating ten columns of varying widths. The first column is the widest, followed by several columns of decreasing width, and a narrow tenth column on the right. The rows are defined by horizontal green lines.

A table with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The table is currently empty.

A table with 1 column and 20 rows. The column is defined by a vertical red line, and the rows are defined by horizontal green lines. The table is currently empty.



This page is a ledger-style sheet with 18 horizontal lines. It features four vertical red lines that create five columns of varying widths. The lines are evenly spaced, and the page is otherwise blank.

This page is a ledger-style sheet with 18 horizontal lines and a single vertical red margin line. A green grid is overlaid on the page, consisting of 18 vertical lines and 18 horizontal lines, creating a grid of 18 columns and 18 rows. The page is otherwise blank.

A page with horizontal green lines and four vertical red margin lines. The page is otherwise blank.

A page with a grid of green lines and one vertical red margin line. The page is otherwise blank.

A ledger page with horizontal green lines and four vertical red lines creating five columns. The columns are of varying widths, with the two inner columns being the narrowest. The page is otherwise blank.

A ledger page with a grid of green lines. A single vertical red line is positioned on the left side, creating a narrow column. The rest of the page is a wide grid. The page is otherwise blank.

A table with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The table is currently empty.

A table with 1 column and 20 rows. The rows are defined by horizontal green lines. The table is currently empty.



A table with 4 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The table is currently empty.

A table with 1 column and 20 rows. The column is defined by a vertical red line, and the rows are defined by horizontal green lines. The table is currently empty.

70

68

A page of lined paper with horizontal green lines and four vertical red margin lines. The page is otherwise blank.

A page of graph paper with a grid of green lines and a vertical red margin line. The page is otherwise blank.

A ledger page with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The page is otherwise blank.

A grid page with 1 column and 20 rows. The grid is formed by a combination of vertical and horizontal green lines. A vertical red line is present on the right side of the page. The page is otherwise blank.



This page features a ledger-style layout with horizontal green lines and four vertical red margin lines. The margins are located at approximately 10%, 20%, 30%, and 40% from the left edge of the page.

This page features a ledger-style layout with horizontal green lines and a single vertical red margin line at approximately 10% from the left edge. The right portion of the page is filled with a green grid pattern.

A table with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The table is currently empty.

A table with 1 column and 20 rows. The column is defined by a vertical red line, and the rows are defined by horizontal green lines. The table is currently empty.

A table with 4 columns and 20 rows. The columns are defined by three vertical red lines, creating four columns of approximately equal width. The rows are defined by horizontal green lines. The table is currently empty.

A table with 1 column and 20 rows. The column is defined by a single vertical red line on the left side. The rows are defined by horizontal green lines. The table is currently empty.

57

73

A ledger page with 20 horizontal green lines and four vertical red lines, creating five columns. The columns are of varying widths, with the two inner columns being the narrowest. The page is otherwise blank.

A ledger page with 20 horizontal green lines and 18 vertical green lines, creating 19 columns. The columns are of varying widths, with the two inner columns being the narrowest. The page is otherwise blank.

73

A ledger page with a yellow background and green horizontal ruling. It features four vertical red lines that divide the page into five columns of varying widths. The columns are approximately 15%, 25%, 25%, 15%, and 20% of the page width from left to right. The page is otherwise blank.

74

A ledger page with a yellow background and green horizontal ruling. It features a single vertical red line on the left side, creating a narrow margin column. The rest of the page is filled with a fine grid of green lines, forming a ledger with many narrow columns. The page is otherwise blank.

A page from a notebook with a cream-colored background. It features a single vertical red margin line on the left side and horizontal green lines for writing. The page is otherwise blank.

A page from a notebook with a cream-colored background. It features a single vertical red margin line on the left side and a green grid pattern. The grid consists of 18 columns and 22 rows. The page is otherwise blank.

This page features horizontal green lines for writing. It is divided into five vertical columns by four red margin lines. The columns are of varying widths, with the two inner columns being the narrowest.

This page features a full grid of green lines. A single vertical red margin line is positioned on the left side, creating a narrow left margin. The rest of the page is a uniform grid.

This page is a ledger-style page with a header section at the top, defined by four vertical red lines. Below the header, there are 20 columns of varying widths, separated by vertical green lines. The page is otherwise blank.

This page is a ledger-style page with a header section at the top, defined by a single vertical red line. Below the header, there are 20 columns of varying widths, separated by vertical green lines. The page is otherwise blank.



A table on page 77 with 6 columns and 20 rows. The columns are defined by vertical red lines, and the rows are defined by horizontal green lines. The table is currently empty.

A table on page 78 with 1 column and 20 rows. The column is defined by a vertical red line, and the rows are defined by horizontal green lines. The table is currently empty.



TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Table with columns: Angle, Sine, Tan., Cotg., Cosin. for angles 0 to 90 degrees. The table is split into two sections at 45 degrees, with the right section mirrored. Values for Sine, Tan., Cotg., and Cosin. are listed for every 10 minutes from 0 to 90 degrees. The bottom row lists the inverse functions: Cosin., Cotg., Tan., Sine, Angle.

TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Table with columns: Angle, Sine, Tan., Cotg., Cosin. for angles 16 to 82 degrees. The table is split into two sections at 47.5 degrees, with the right section mirrored. Values for Sine, Tan., Cotg., and Cosin. are listed for every 10 minutes from 16 to 82 degrees. The bottom row lists the inverse functions: Cosin., Cotg., Tan., Sine, Angle.

595  
612  
1307

647  
368  
1015

10146

85.01

81.41

3.20

85.01

203 73 40

101 36 30

179 60

85.01

94 59

81.43

179 60

3.20

98.21

98.21

101 39

104.41

203 02

101 31

203 02 40

101 38 50

### DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	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 41.9. For some 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 41.9 + (20 - 16) \* 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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