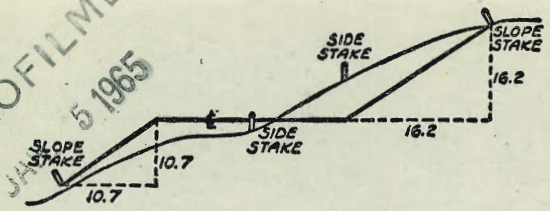
2275

SEWER

MICROFILMED JAN 5 1965



Distances from Side Stakes for Cross-Sectioning

Slope 1 to 1. Roadway of Any Width

	0	.1	.2	.3	.4	.5	.6	.7	.8	9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	03	.06	09	13	16	19	.22	.25	.28	.31	34	38	42	.46
15°	04	10	14	19	24	.29	.34	.39	45	.51	.53	58	.63	.68
20°	06	.13	19	.26	.32	.39	.45	.51	.58	.65	.72	79	.84	.90
25°	.08	16	24	.33	40	49	.58	67	.75	.83	90	.99	1.06	1.14
30°	10	19	.29	39	49	.59	.69	79	.89	.99	1.09	1.20	1.29	1.39
35°	11	22	.34	47	.58	.69	.70	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	15	.30	44	60	76	91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	19	38	.57	76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	23	46	.69	.93	1.16	1 40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	25	.51	76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	30	.61	.91	1.22	1.53	1.84	2.15	2.46	2 78	3.10	3.44	3.78	4.12	4.46
85°	33	66	1.00	1.33	1.68	2.02	2.36	2 70	3.05	3.40	3.77	4.14	4.55	4 89
90°	36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	39	79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4 76	5.31	5 86	6.43	7 01	7 60
120°	62	1.25	1 93	2.52	3.16	3.81	4 45	5.11	5.77	6 44	7 12	7.80	8.50	9 22

FOR EXTERNALS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	036	.046	.056	.065	.074	.083	.093	.106	120	127	135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

Proposed Sewer: { ALVARADO HTS + METROPOLITAN Center

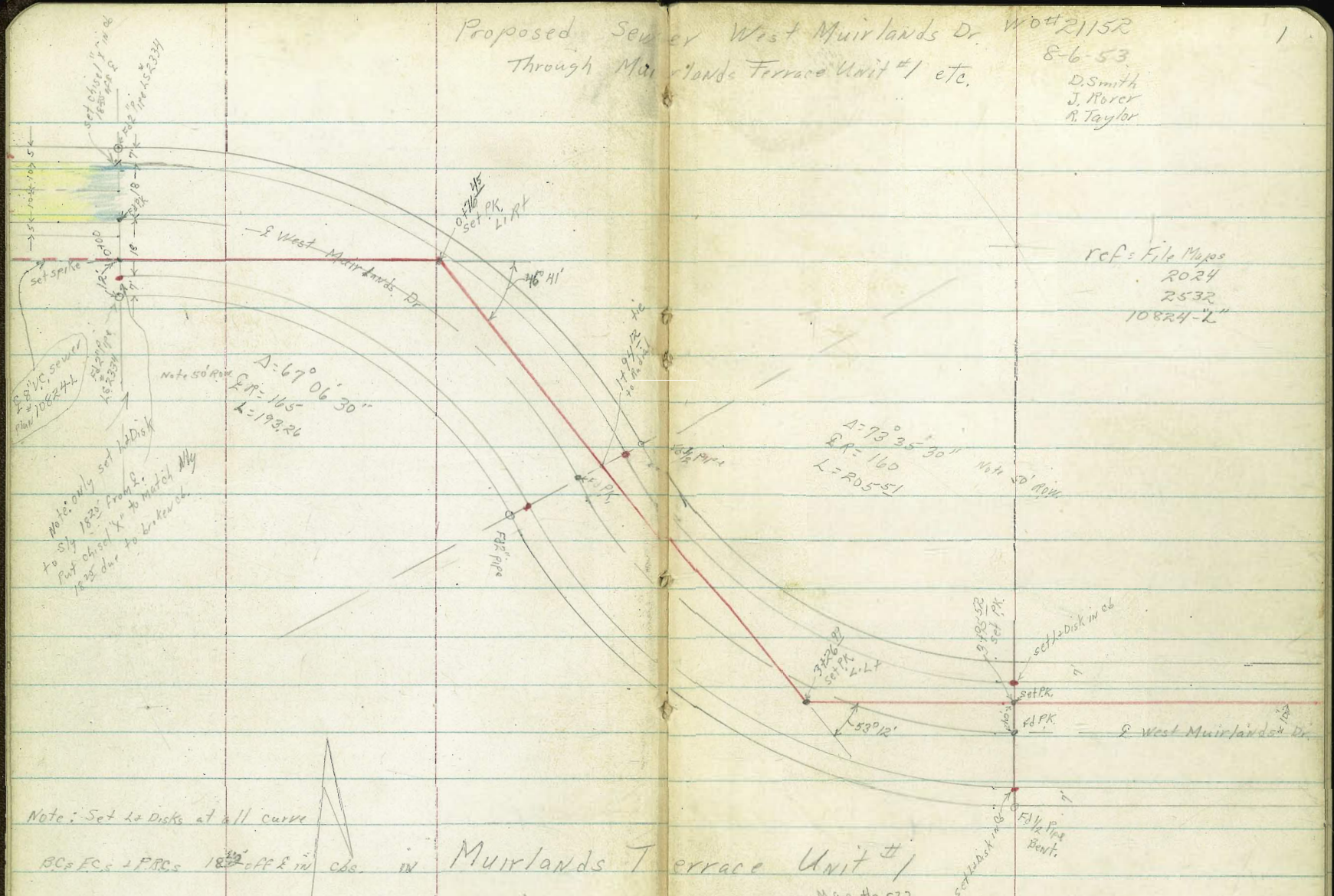
Proposed Sewer West Muirlands Dr. W.O.# 21152

Through Muirlands Terrace Unit #1 etc.

8-6-53

D. Smith
J. Rorer
R. Taylor

1



Muirlands Terrace Unit #1

Map #2532

ref: File Maps
2024
2532
10824-2"

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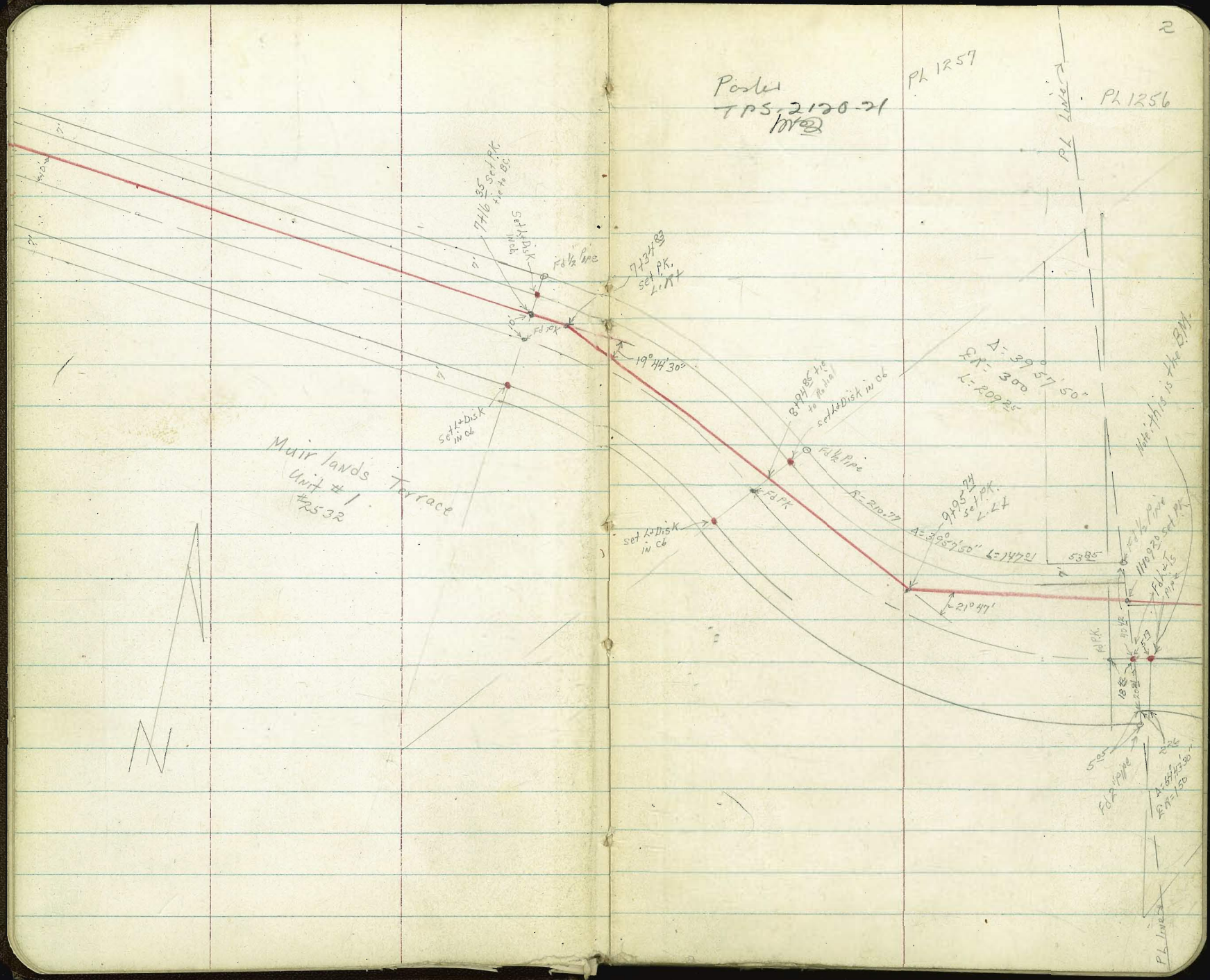
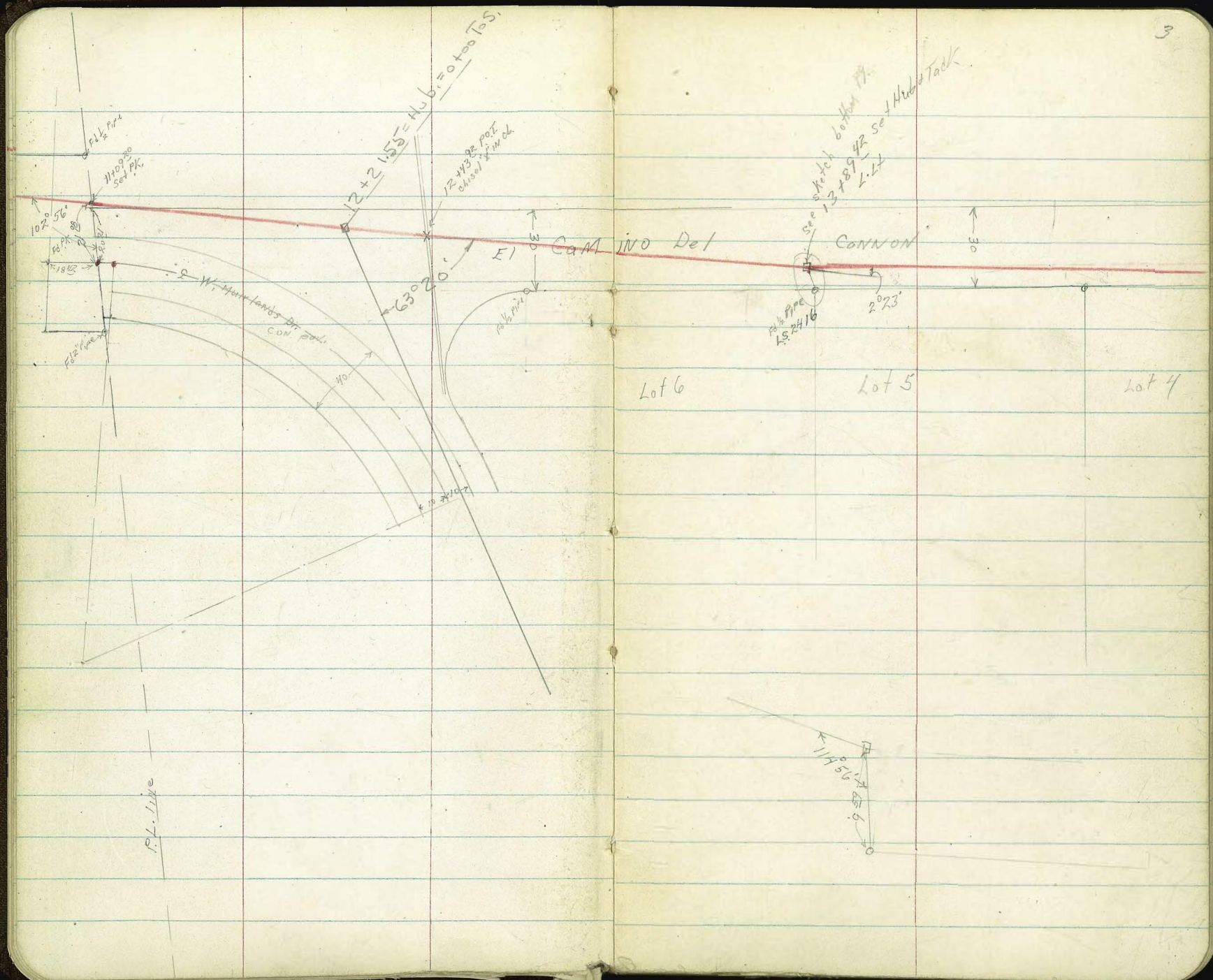
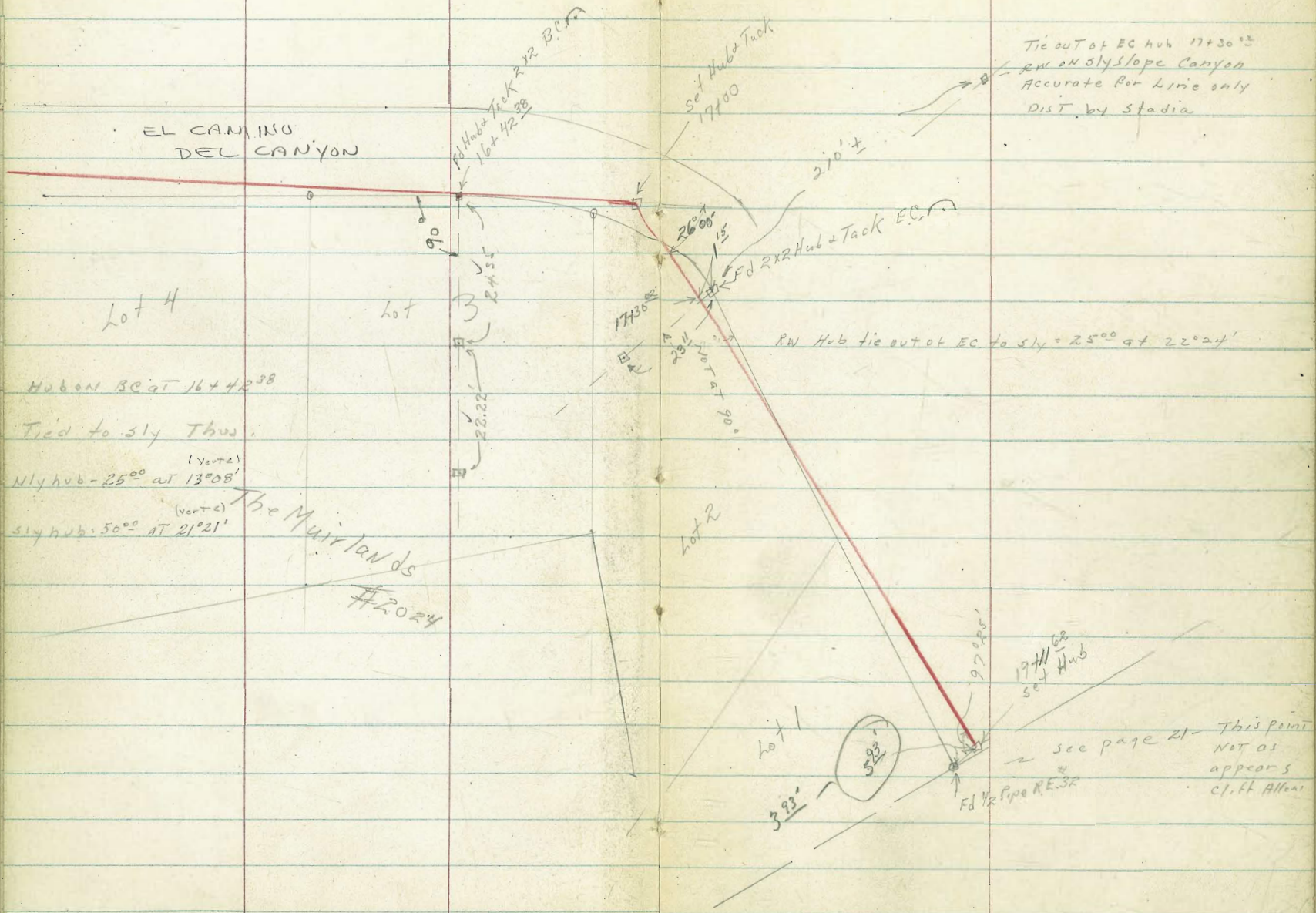

Posted
TPS 2120-21
PL 1257
PL 1256
PL Line
Muir lands Terrace
Unit #1
#2532
N
7+16.35 Set PK tie to BC
Set L+Disk in C6
Fd 1/2 Pipe
7+34.83 set PK. L.Rt
Fd PK
19°44'30"
8+94.85 tie to Radial
set L+Disk in C6
Fd 1/2 Pipe
Fd PK
R=210.77
9+95.74 set PK. L.Lt
Δ=39°57'50" L=147.01
21°47'
Δ=39°57'50"
℄R=300
L=209.25
Note: this is the B.M.
53.85
Fd 1/2 Pipe
11+09.20 set PK
Fd L+Ts pipe
Fd PK
5.05
Fd 2" pipe
2.26
Δ=64°43'30"
℄R=150
PL Line


12+21.55 = Hub = 0+00 To S.
12+43.92 P.O.T. chisel 'X' in ch.
El Camino Del Connon
63°20'
30
See sketch bottom Pg.
13+89.42 set Hub & Tack
L.Lt
2°23'
Fd ½ Pipe
L.S. 2416
Lot 6
Lot 5
Lot 4
11+09.20 Set PK.
102°56'
Fd PK.
18.42
℄ W. Muirlands Dr. con. pol.
40
Fd ½ Pipe
P.L. line
114°56'
9.59


EL CAMINO
DEL CANYON
Fd Hub & Tack 2x2 B.C.
16+42.38
Set Hub & Tack
17+00
Tie out of EC hub 17+30.02
RW on Sly Slope Canyon
Accurate for Line only
Dist. by Stadia
210'±
26°00'
15
Fd 2x2 Hub & Tack E.C.
90
24.35
Lot 4
Lot 3
17+30.02
23.11
Not at 90°
RW Hub tie out of EC to sly = 25.00 at 22°24'
Hub on BC at 16+42.38
Tied to sly Thus.
Nly hub - 25.00 at 13°08' (vert c)
Sly hub: 50.00 at 21°21' (vert c)
22.22'
The Muirlands
#2024
Lot 2
97°25'
19+11.62
Set Hub
Lot 1
5.93
3.93'
Fd 1/2 Pipe R.E. 32
see page 21 - This point
Not as
appears
Cliff Allen

				℄				℄
TP7	13.33	280.17	0.02	266.84	TP8	13.16	305.18	0.90 292.02
				264.47				290.69
1+50				2.39	5+00			2.23
				260.40				287.36
1+00				6.46	4+50			5.56
				258.72				283.72
0+76.45 Δ Rt				8.14 on PK	4+00			9.20
				256.94				
0+50				9.92	TP8	13.08	292.92	0.33 279.84
				253.10				280.17
0+00 W'ly Muirlands Ter. #1				13.76 on spike	3+50			0.00
								278.59
TP6	5.73	266.86	12.61	261.13	3+26.99 Δ Lt			1.58 on PK
TP5	1.87	273.74	13.00	271.87				276.63
TP4 BM	0.65	284.87	6.14	284.22 ← House No. 1343 W Muirland Br. in Eb Dr.	3+00			3.54
TP3	0.71	290.36	12.92	289.65				272.32
TP2	0.19	302.57	12.29	302.38	2+50			7.85
TP1	0.06	314.67	12.63	314.61				268.48
B.M.	0.02	327.23		327.21 Lot in Pav. & W Muirlands Dr. N of NW cor. Lot 1 Blk 17 Map 2024 (Note is pipe in ℄ paving 5.19 Ely of PL line)	2+00			11.69

280.17

				℄
				314.58
9+00				2 83
				312.11
8+50				5 30
				309.25
8+00				8 16
				306.39
7+50				11 02
				305.60
7+34 83 L. Rt				11 81 on PK
TP9	12 84	317 41	0 61	304 57
				303.60
7+00				1 58
				300.47
6+50				4 71
				297.21
6+00				7 97
				293.96
5+50				11 22
		Π 305 18		

				℄
				333.37
12+08 19° Rt ℄ Water Valve box		7x7 con.		2 18 19
		331.3	331.5	332.1
12+00		4 3 10	4 1	3 5 10
TP11	7 25	335 55		0 85 328 30
				328.6
11+50				0 6
			327.9	328.33
11+43	private drive crosses cb		1 3 gut	0 82 cb
				324.87
11+00				3 28
				322.47
10+50				6 68
				319.95
10+00				9 20
				319.76
9+95 74 L. Rt				9 39 on PK
				317.18
9+50				11 97
TP10	12 28	329 15		0 54 316 87

	Lt	℄	Rt
	325.8	330.6	335.6
14+00	9.8 / 10	5.0	0.0 / 10
	336.7	330.25	333.6
13+89 42 L.Lt	8.9 / 10	5.30 on hub	2.0 / 10
	328.4	329.0	331.1	333.6
13+50	7.2 / 10	6.6 / 5	4.5	2.0 / 10
	323.8	325.7	326.2
13+00 12.2 Lt ℄ 14" Cypress tree	11.8 / 10	9.9	9.4 / 10
	325.2	327.0	327.8
12+80	10.4 / 10	8.6	7.8 / 10
	327.1	329.8	328.3
12+70	8.5 / 10	5.8	7.3 / 10
10° Rt ℄ 7" Bush			
12+50 6° Lt ℄ 4" Bush	331.1	331.8	332.0
12+50	4.4 / 10	3.8	3.6 / 10
	332.5	332.82	
Private drive 12+43.92 POT. on Cb Chisel 'x'	3.1 gul	2.73 Cb	
	332.43	332.2	
Private drive +28 crosses Cb	3.12 Cb	3.4 gul	

⊼ 335.55

	Lt	℄	Rt
	315.0	320.8	325.4
17+50	13.0 / 10	7.2	2.6 / 10
17+00 Hub TP13 12.33	328.02		12.96 315.69
	313.2	315.69	319.0
17+0	15.5 / 10	12.96 Hub	9.7 / 10
	322.94		
3' Lt ℄ water main 16+89 cut-off wall	12.61 / 3	3 elv. 313.40 Top water main	
	314.5	317.8	321.9
16+50	14.2 / 10	10.9	6.8 / 10
	315.2	318.6	322.0
16+00	13.5 / 10	10.1	6.7 / 10
	316.3	319.5	326.6
15+50	12.4 / 10	9.2	6.1 / 10
	318.4	322.4	325.4
15+00	10.3 / 10	6.3	3.3 / 10
TP12 5.72	328.65		12.62 322.93
	321.1	323.7	325.3
14+50	14.5 / 10	11.9	10.3 / 10

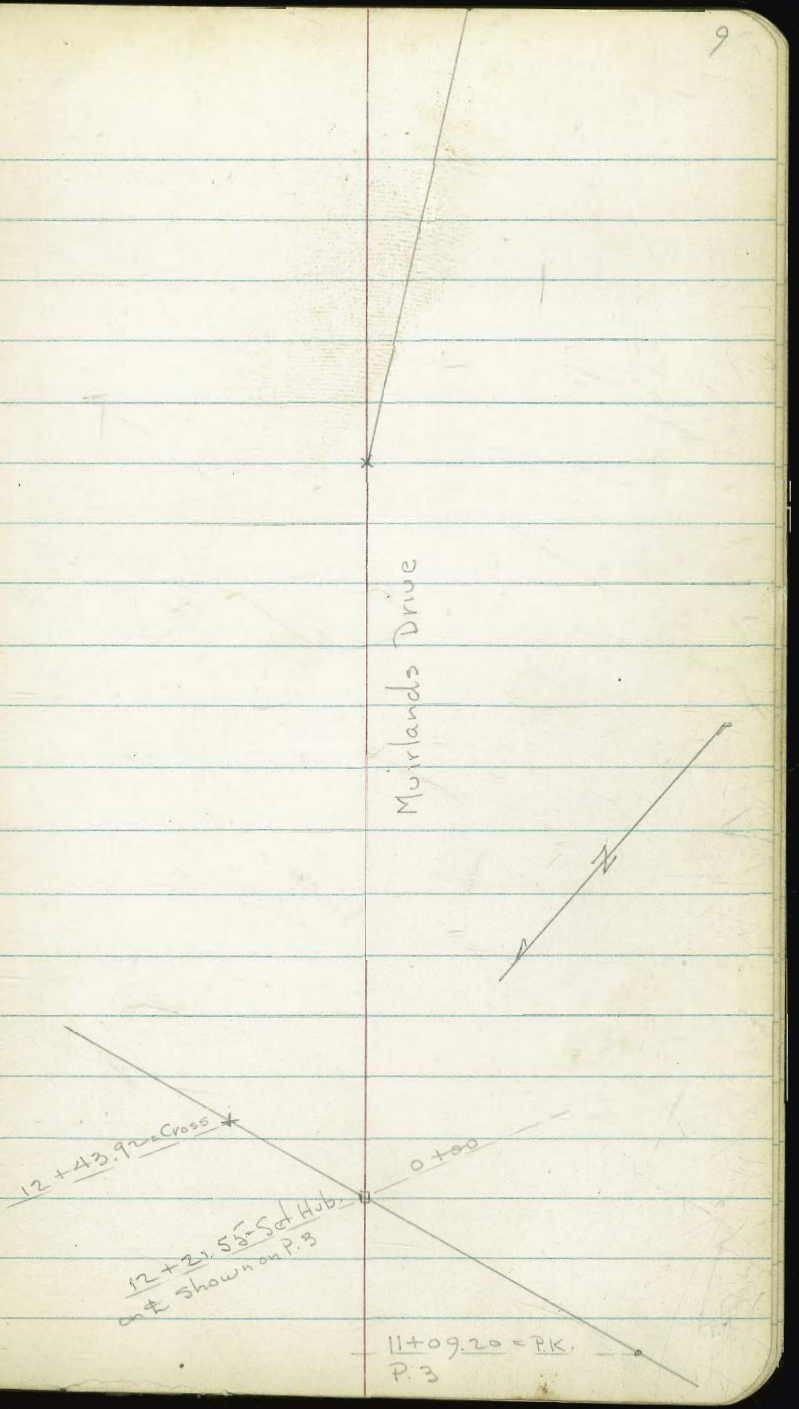
⊼ 335.55

	Lt	℄	Rt		
					327.21 ✓
BM	L&T in Pav. ℄ W. Murlands Dr. N of NW cor Lot 1 Blk 17			10.31	327.24
TP 15		12.66	337.55	3.48	324.89
TP 14		12.21	328.37	11.86	316.16
		326.4	331.6	336.0	
19+11.62		1.6	+3.6	+8.0	
		325.0	329.4	334.5	
19+00		3.0	+1.4	+6.5	
		320.0	324.7	329.4	
18+50		8.0	3.3	+1.4	
		317.6	323.2	327.4	
18+00		10.4	4.8	0.6	
		328	0.2		

INDEXED
SEP 30 1953

2+92.41 = Cross in Pave - Ang. 8°02 Rt.

0+00 = 12+21.55 on Main Line



8+25 = End.

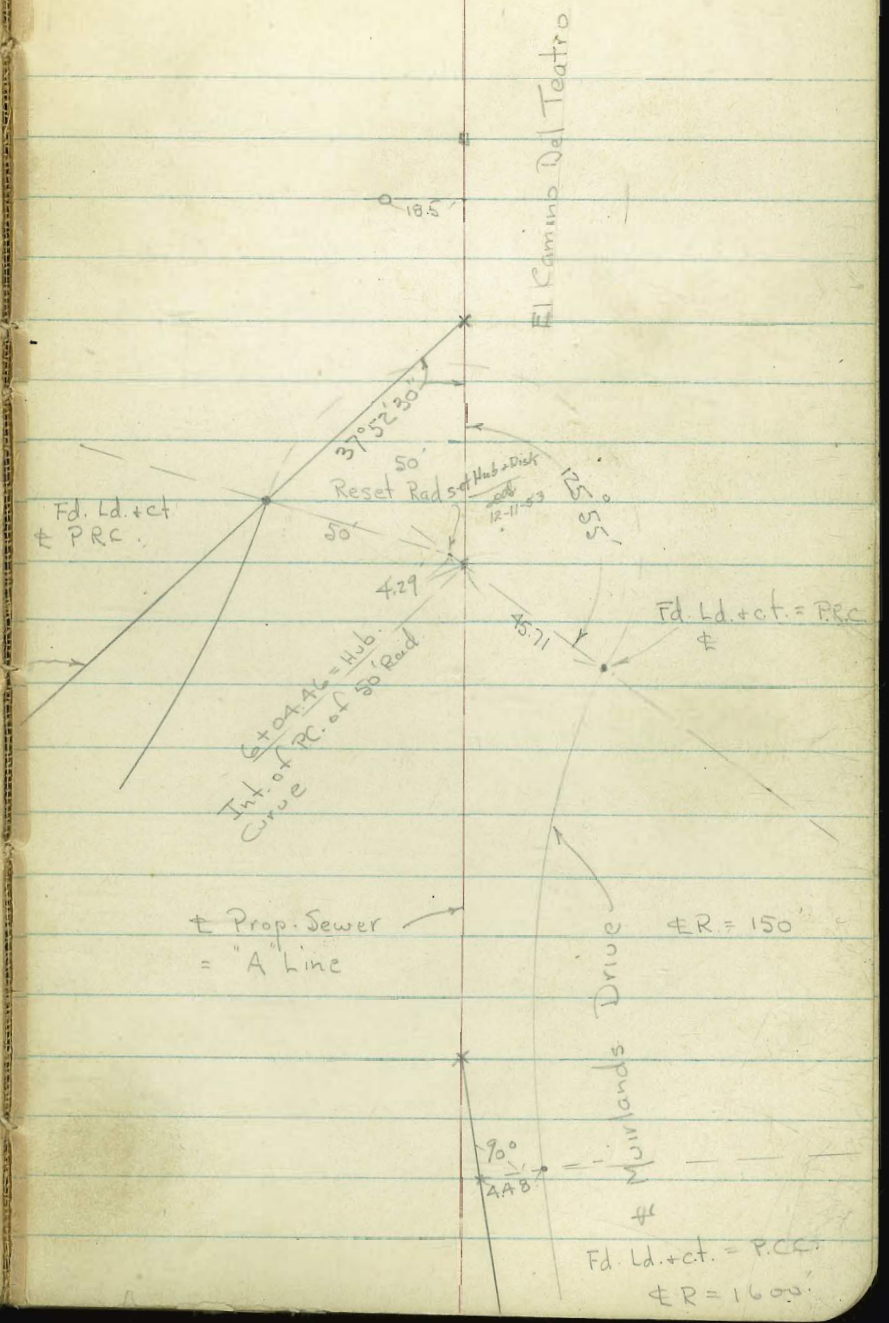
7+87 - 18.5' Lt. at 90° = 3/4" Iron Pin - Lots 4+5.

C+87.32 = Cross = 0+00 of Stub. Line up Hill

℄ Prop. Stub. Line
= "B" Line
See P. 15

4+95.29 = Cross in Pave - Ang. 111° 06' 30" Rt.

4+63.50 - 4.48' Rt. at 90° = Ld + ct. = ℄ P.C.C.



Beg. Levels along ℄ of Prop. Sewer in Muirlands Dr. & Camino Del Teatro

See P. 3 for start on Main Line

Sketch - P. 9 + 10

W.O. 21152 9-29-53 7.0.

2+00

1+54 = end Dr.

House on Lt. is. Low - go to Main Line

1+20 = Beg. Conc Dr. on Lt.

should go to Main Line

0+97 = 56' Rt = ℄ of Large House - probably

0+80

0+51.5 · Beg. Conc. Pave

0+21.5 = cb. face Driveway curb

0+00 = Hub.

B.M. = Cross on cb. - 12+43.92 332.82

P. 7

Lt.	℄	Rt.
46.21 9.2 edge AC. Dr.	45.30 4.3 edge + Beg. AC. Dr.	45.25
42.53 6.8 Top	42.38 6 gut	42.33 4 edge
40.31 5.8 Top	40.08 5.2 gut	40.07 3.2 edge Conc.
37.69 3.6 Top = edge	37.32 3 Rock gut	37.51 0.9 edge Conc.
35.83 Top of Rock cb.	35.30 8 end of Conc. gut.	35.34 43 end of Conc. cb. + pave

Lt.	℄	Rt.
45.15 5.6 ℄	44.92 15.6 edge	
42.20 6.1 ℄	41.90 16 edge	
40.02 6.8 ℄	39.72 16.9 = edge Conc.	
	36.7 56 gr	38.05 floor
37.33 10.9 ℄	37.01 21 edge	
35.32 Conc.	35.67 10 = Conc.	
33.58 Top cb.	33.2 gut. in Dr.	

32.10

1300' Fig. Not Noted.

[Actual Elev. Shown.]

	Lt.	℄	Rt.
4+95.29 = Ang. Pt. - Sect. 90° to Back Tang.			
4+50 - House on Rt. - Too Low - Houses on Lt. are High	65.3 8	61.84 Top	61.38 3.4 gut 61.55 1.3 edge 61.59 on Cross.
4+10	62.9 15	59.34 Top	58.80 7.9 gut 59.07 5.9 edge 59.11
3+96 = aprox. ℄ of 12" Culvert across Rd. + 6.1' Lt. = Wly. of 2.5x3 grate to Inlet.	57.78 15 on Conc. Dr.	56.78 8.9 edge gut. Beg. Conc. Dr.	56.89 6.2 edge 56.90 53.24 I.E. of 12" pipe 56.24 6.1 = Top grate 54.20
3+75	55.92 17.5 walk	55.35 Top of Conc. walk	55.01 7.7 gut 55.31 5.6 edge 55.25
3+51 - 10.5' Rt. = ℄ Gas. Co. M.H. 53.81 Wly. Rim			
3+45 - 9.8' Rt. = ℄ Tel. M.H. 53.51 = Wly. Rim			
3+35 58.0 15	53.57 Top Rock	52.99 6.1 gut.	53.25 4.1 edge 53.22
2+92.41 = Ang. Pt. - Sect. 90° to back Tang.		51.41 3.5 on A.C. Dr.	51.10 1.3 edge 51.08 on Cross
2+87 - 70' Rt. = ℄ Large House			46.4 70 ground 46.85 floor
2+50	48.84 Top	48.35 5.5 gut.	48.51 3.5 edge 48.52

	Lt.	℄	Rt.
	53.16 6 ℄	52.98 16 edge	
	51.15 8.9 ℄	50.93 18.8 edge	
	48.51 6.6 ℄	48.29 16.6 edge	

6+91.2 = ℄ at edge of Conc.

6+88.5 20.1 Lt. = Cor. of Conc. Pave
2'x2' Box - 2.4 Deep - for Gate

6+80 - 0.5 Lt. = ℄ Gas. Co. M.H. 73.66 Nly. Rim

6+78 - 10.7 Rt. = ℄ Gas Co. M.H. 72.98 - Nly.

6+73 - 12.2 Rt. = ℄ Tel. MH 72.77 - Nly. Rim

6+65

6+44.5 = edge of Conc. Pave

6+42.5 = Rock cb. & gut.

6+34 - 11.2 Rt. = ℄ Conc. Light Standard = B.M.

6+15 = Cross fence - end Lawn

check B.M. = B.P. on Light base 373.11 - 373.45

5+80 = Cross Rail fence around Lawn

5+50

5+24 - Cross Rock gut.

5+12.5 = Cross edge of Conc.

	Lt.	℄	Rt.
7+23		on Conc.	
	74.91 20.1 = Conc.		
	74.91 31.7 edge	73.11	72.35 2.1 edge
	75.45 38.8 ℄	73.41 15 edge	72.20 edge 71.02 28.5 ℄
		72.40 Top	72.02 gut
Bench Book	72.75 .12 Brick Dr.	71.4	68.93 68.49 68.64 69.00 31.2 gut. 33.6 43.9 Top edge ℄
	72.65 14 edge of Brick Dr.	72.2	66.6 66.70 66.37 66.53 67.13 12 23.3 25.6 37.1 Top gut. edge ℄
	72.2 13	66.4	64.95 64.40 64.67 64.98 65.15 8.5 gut. 10.5 21.8 32.9 Top edge ℄ edge
	66.4 65.3 63.42 63.00 63.31 63.35 63.26 11 4 Top gut. 2.3 12.5 23.5 edge ℄ edge		
		62.65	

	Lt.		℄	Rt	
8+25 = end.	89.7 12	83.0 6	83.35 on Hub.	84.1 12	84.0 20
7+80	84.8 18	79.8 12	80.1	79.7 20	
7+40	81.1 25	77.9 15	77.2	76.9 16	74.5 22
7+05 - 21.7' Lt. = ℄ F.H.					
7+00		75.2 20 Toe	74.7	73.8 20	
6+95 - 11.6' Rt. = ℄ 18" x 18" Conc. slab. - 6" pipe down					75.20 11.6 Top slab.
6+92.3 - 8.7' Rt. = Cor. of Conc. pave				73.68 8.7 Conc.	

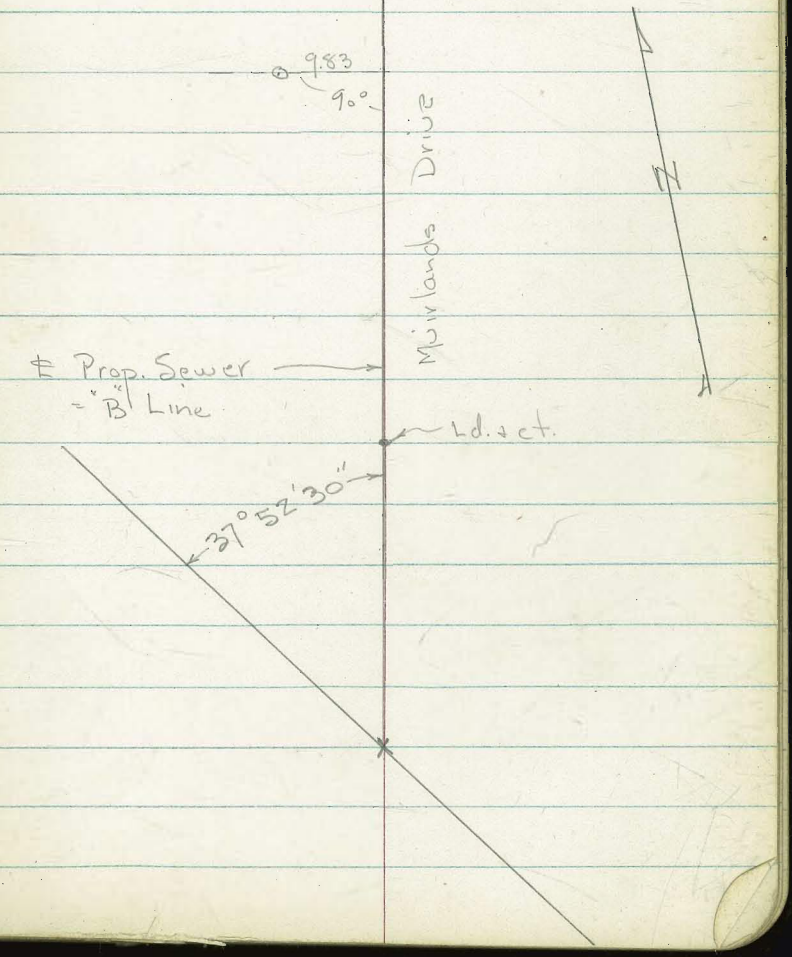
2+36 = Cross = end.

1+54.71 - 9.83' Lt. at 90° = 3/4" Pipe + c.t. = P.R.C.

0+83.99 = Ld. + c.t. = E.C. of 50' Rad. Curve

0+00 = Cross on Pave = 6+87.32 on "H" Line

See P. 10



Beg. Levels along ℄ of Prop. Sewer = "B" Line in Muirlands Drive - N. of Camino Del Teatro = from Sta. 6+87.32 on "A" Line - See P. 10 + 15 for sketch.

W.O. 21152 - 10-7-53 - 7.0.

	Lt.	℄	Rt.
1+21 - 9.2' Rt. = end = (wly) of 5' High Conc. Block wall			79.90 9.2 = Dr. at Bot.
1+15	79.18 18.9 edge	79.17 8.7 ℄	78.87 78.78 78.56 80.98 15 3.5 20 edge gut. & Dr. edge Dr. & Bot. of wall
0+99 - 7.3' Rt. = Beg. Conc. Dr.			77.33 81.75 7.3 20 Cor. of Dr. Dr.
0+83.97 = B.C. 50' Rad. Curve	73.70 76.5 76.88 29.8 15 12 edge of Dr. edge		376.74 76.44 76.24 76.65 85.4 on Ld. ℄ et. 10.5 12.5 Top 26 edge gut. Top Bank
0+65	74.68 75.31 17.5 8.6 edge of Brick Dr. edge		75.66 75.72 75.50 75.93 79.1 13.3 15.6 Top 20 edge gut.
0+35	73.72 8.4 ℄ Pave	74.29	74.90 74.78 75.24 80.8 11.6 13.6 Top 20 edge gut. Rock Conc. Pave (Rock)
0+00 on "B" Line = 6+87.32 on "A" Line		74.11	
B.M. = B.P. in Light standard. P. 13		373.11	

300' fig. Not Noted.

Actual Elev. Shown.

	Lt.	℄	Rt.
2+36 = end.	88.33 14.7 edge	88.72 4.5 ℄	88.74 on Cross 88.72 5.5 edge 88.55 7.5 gut. 89.00 Top 93.5 15
2+00	85.49 16.1 edge	85.72 6 ℄	85.76 85.76 4.1 edge 88.57 6 gut. 86.00 Top 89.7 15
1+70	83.13 18.6 edge	83.38 8.3 ℄	83.28 83.27 1.9 edge 83.04 3.7 gut. 83.87 Top 86.8 10
1+40	81.00 20.8 edge	81.10 10.4 ℄	80.81 0.8 edge Conc. Pave 80.72 80.66 1.3 gut. 81.14 Top 85.4 8

1+25 – 10.2' Rt. ½" Lot pipe – L.S. 2201

1+25 – 1.9' Rt. = end Conc. Dr.

79.42
1.9 = Cor.
Conc. Dr.
+ gut.

D. Smith
J. Rorer
R. Taylor
B. Fish

Sewer Profile as per plan # 2327-D 2328-D 2329-D

West Muirlands Drive & El Camino Del Canon

INDEXED DER DEC 16 1953

Note: use plan for sketch

WO # 21152
12-9-53

			Line					Line		
TP1	12.93	278.68	265.75	0.32 265.75				282.06		
1+75	4° 29.775'		0.32		3+75	33° 20.163'		9.10		
			263.89	Δ = 36° 17' 08"				280.13		
1+50	8° 32.553'		2.18	R = 177	3+50	28° 29.813'		11.03		
				L = 112.09						
			262.06	d1 = 9.711	TP2	13.10	π 291.16	278.06	0.62	278.06
1+25	12° 35.331'		4.01		3+25	23° 39.463'		0.62		Δ = 73° 35' 30"
c = 24.98										R = 148'
			260.20							L = 109.09
1+00	16° 38.109'		5.87		3+00	18° 49.113'		2.65		d1 = 11.61401
c = 9.31										
			259.52					273.85		
0+90.69	BC. Rt. 18° 08.50'		6.55		2+75	13° 58.763'		4.83		
			258.63					271.80		
0+75			7.44		2+50	9° 08.413'		6.88		
			256.94					269.78		
0+50			9.13		2+25	4° 18.063'		8.90		
			254.89					267.97		
0+25			11.18		2+02.78	P.R.C. 0° 00'		10.71		
					c = 2.78					
			253.10					267.74		
0+00	due to open ditch to westerly				2+00	0° 26.997		10.94		
BM	7.35	266.07	258.72	ON PK 0+76.45 L. Rt. p 5.						
								π 278.68		

Note all shots are on nails so are benches if needed.

Line

6+00		297.38 6 79
5+75		295.73 8 44
5+50		294.08 10 09
5+25		292.44 11 73
TP3	13 33	π 304 17
5+00		290.84 0 32 290 84
4+75		289.20 1 96
4+50		287.48 3 68
4+25		285.68 5 48
4+00		283.89 7 27
3+92.87 EC.	36°47.750'	283.38 7 78
		π 291 16

Line

8+25	6°29.778	310.61 6 49
8+00	8°47.509'	309.25 7 85
7+75	11°05.240	307.93 9 17
7+50	13°22.971	306.53 10 57
C=24.99		
7+25	15°40.746'	305.17 N 93
C=11.30		
7+13.70 BC.	16°43.00'	304.54 12 56
TP4	13 37	π 317 10 303 73 0 44
7+00		303.73 0 44
6+75		302.19 1 98
6+50		300.61 3 56
6+25		299.11 5 06
		π 304 17

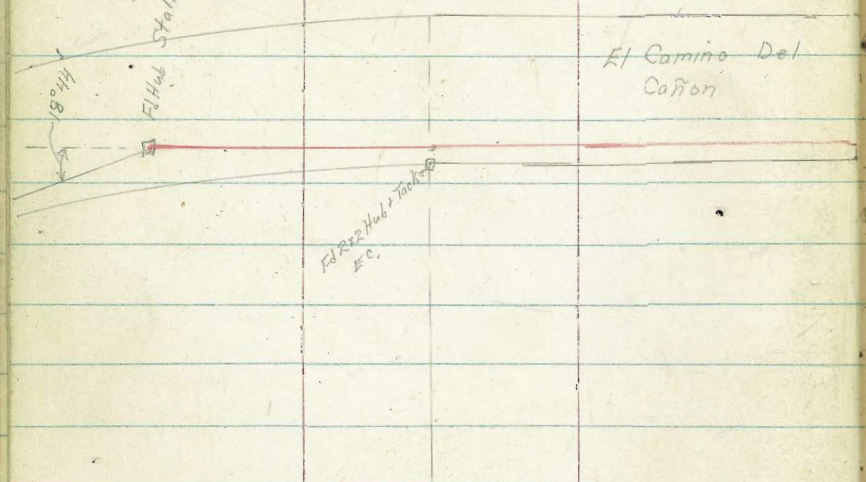
Δ = 33°26'
R = 312
L = 182.06
d = 5.50921'

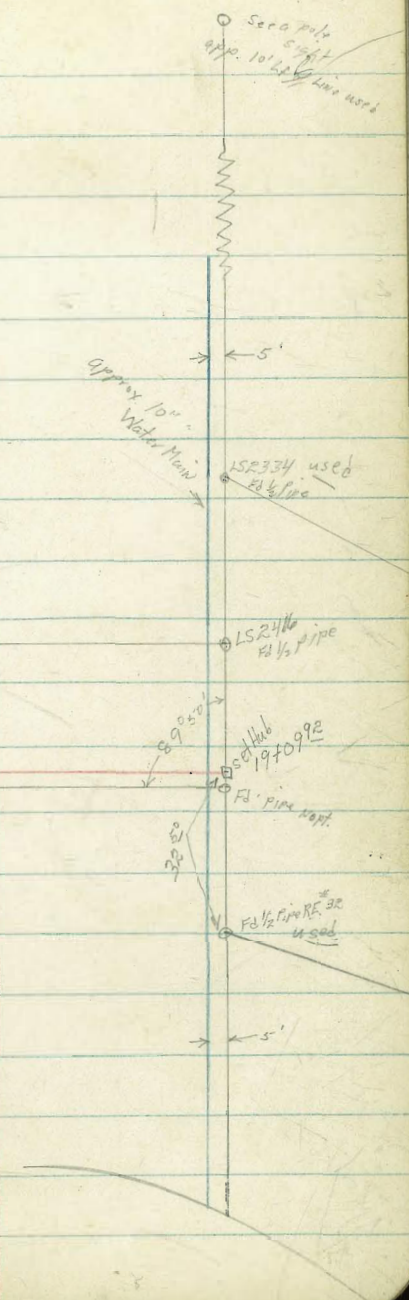
		Line	
		322.65	
10+50	16° 18.771	6 37	
		321.31	
10+25	13° 40.127	7 71	
		319.95	
10+00	11° 01.483'	9 07	Δ = 39° 57' 50"
			R = 270.87
			L = 188.93
		318.55	d₁ = 6.34575
9+75	8° 22.839'	10 47	
		317.19	
9+50	5° 44.195'	11 83	
TP5	13 08	π 329 02	1 16 315 94
		315.94	
9+25	3° 05.551'	1 16	
		314.47	
9+00	0° 26.907'	2 63	
c = 4 24	↑		
		314.26	
8+95 76 PRC.	0° 00'	2 84	
c = 20 75	↓		
		313.24	
8+75	1° 54.316'	3 86	
		312.04	
8+50	4° 12.047'	5 06	

π 317 10

		Line	
		331.76	
12+14 07 Hub		3 23	
		Hub	
		331.0	
12+00		4 0	
		329.6	
11+75		5 4	
		328.5	
11+50		6 5	
		328.23	
179° Rt ℄ House Lot 1 Blk 18.			
11+41 ℄ crosses Cbing		6 76	320 34
		CS	elv. Lowest Floor
			179° House
3° Rt.			
11+35	(W)		6 9
			3
TP6 BM	7 79	π 334 99	1 82 327 20 P5
		327.40	
11+25		1 62	
		325.78	
11+00		3 24	
		324.71	
10+84 69 EC.	19° 57.918'	4 31	
c = 9 69			
		324.12	
10+75	18° 57.415'	4 90	

π 329 02


Sketch P4
Fd Hub Sta 17+00 used as BM elv. 315.69
P7
18°44'
El Camino Del Cañon
30'
Fd 2x2 Hub + Tack
E.C.


See a pole sight
app. 10' Lft Line used
5'
approx 10" Water Main
LS2334 used
Fd ½ pipe
LS2416
Fd ½ pipe
89°50'
set Hub 1970992
Fd pipe not.
32.50
Fd ½ pipe RE #32 used
5'

	Lt = Nly	Base Line	Rt = Sly
19+00	305.6 / 10 1 / 10	315.1 ~~311.4~~ / 6 3	314.1 / 1 6 / 10
18+75	304.4 / 11 3 / 10	314.9 ~~309.2~~ / 6 5	313.1 / 2 6 / 10
18+50	304.7 / 11 0 / 10	315.2 ~~309.5~~ / 6 2	314.7 / 1 0 / 10
18+25	305.1 / 10 6 / 10	315.3 ~~309.6~~ / 6 2	314.5 / 1 2 / 10
18+15	306.2 / 9 5 / 10	315.7 ~~310.0~~ / 5 7	314.9 / 0 8 / 10
18+00	306.5 / 9 2 / 10	316.6 ~~310.9~~ / 4 8	315.7 / 0 0 / 10
17+75	307.5 / 8 2 / 10	318.0 ~~312.3~~ / 3 4	317.0 / +1 3 / 10
17+50	308.2 / 7 5 / 10	317.7 ~~312.0~~ / 3 7	316.5 / +0 8 / 10
17+25	307.0 / 8 7 / 10	316.7 ~~311.0~~ / 4 7	315.4 / 0 3 / 10
17+00		315.69 / 5 75 / Hub	

BM 5 75 π 321 44 315 69 Hub Sta 17+00 P7

	Lt = Nly	Base Line	Rt = Sly
19+25	309.3 / 6 4 / 10	313.9 / 1 8	318.4 / +2 7 / 10
19+09 92 Int. Sub Line		315.59 / 5 85 / Hub	
19+05 ℄ crosses Water Main		312.89 / 8 55 / Top Pipe	

π 321 44

Sewer West Muirlands Dr.

		Base Line	344.94		
2+00	1°38.1344'		7.81		
			343.29		
1+75	1°11.4239'		9.46		
1+58	2° Rt to (W)		341.74		
1+50	0°44.7134'		11.01		
TP	12.70	π 352.75	0.27	340.05	
			340.05		
1+25	0°18.0029'		0.27		
			339.02		
1+08.15	BC, Rt	0°00'	1.30		
			338.43		
1+00			1.89		
			336.76		
0+75			3.56		
0+59	4° Rt to (W)		335.32		
0+57	℄ crosses beginning of con pad		5.00		
			334.9		
0+50			5.42		
			333.92		
	c=25.00	0+33 ℄ crosses CL	6.40	Ditch	
			333.2		
0+25			7.13		
	c=16.85		331.67		
	= 0+00.31		8.65		
14+16.77	Fly		Nail		
BM	ps	13.11	π 340.32	327.21	ps

		Base Line	358.77		
	c=18.91		5.86		
4+50	6°05.2394'				
			357.37		
4+25	5°38.5289'		7.26		
			355.97	356.15	353.18
	125 Lt to W in 8 of 3'x2½' WM grate		8.66	8.48	11.45
4+00	5°11.8184'		325		10 12" Pine
3+80	2° Rt to (W)			354.99	
3+75	4°45.1079'			9.64	
				353.75	
3+50	4°18.3974'			10.88	
TP	12.9	π 364.63		352.44	0.31 352.75
3+25	3°51.6869'			0.31	
3+09	3° Rt to (W)			351.20	
3+00	3°24.9764'			1.55	
				349.82	
2+75	2°58.2659'			2.93	
				348.18	
2+50	2°31.5554'			4.57	
				346.59	
2+25	2°04.8449'			6.16	
		π 352.75			

Δ = 12°51'
R = 1608.75
L = 360.80
d_1 = 1.068½

			Base Line
6+50			370.16 / 5.65
6+25			368.59 / 7.22
6+22	2° Rt to (W)	Δ = 90° R = 40.07 L = 62.94	
6+00			367.26 / 8.55
5+95.35	PRC.	23° 11.50'	366.87 / 8.94
5+77	3° Rt to (W)		
5+75		19° 26.891	365.67 / 10.14
TP3		11.48	π 375.81
5+50		14° 51.681'	364.33 / 0.30
		Δ = 46° 23' R = 156.14 L = 126.40 d = 11.0085'	0.30 364.33
5+25		10° 16.471'	363.03 / 1.60
5+22	3° Rt to (W)		
5+00		5° 41.261'	361.50 / 3.13
4+81	3° Rt to (W)		
4+75		1° 06.051'	360.17 / 4.46
		0° 00'	
4+68.95	PCC.	6° 25.50'	359.84 / 4.79

π 364.63

			Base Line
1+00	2° 02.629'	378.8 / 7° / 3.3 toe	379.0 / 6.8
0+75	1° 09.496'	377.6 / 8.2 / 4.2 toe	378.0 / 7.8
0+50	0° 16.363'	376.2 / 9.6 / 3.6 Toe	376.4 / 9.4
	0° 00'		
0+42.36	PCC.	13° 18'	375.7 / 10.1 / 3.7 Toe; 375.86 / 9.93 Stub
0+25		7° 46.05'	10.7
0+17	& crosses edge pav.		374.94
0+24.92	0+09	8° Rt. to (W)	10.85 pav end
0+00 Sly		0° 00'	374.91 / 10.88
	chisel "X"		
TP4		12.64	
BM in light std.		π 385.79	
	chisel "X" = s 0+00 N+S		374.91
7+14.73	MH end		0.90
7+11.4	2° Lt to (W)		372.92
6+85			2.89
			370.74
6+58.29	E.C.		5.07
6+52	7.3 Rt to (W)		

π 375.81

Δ = 12° 56' 30"
R = 808.75
d = 2.126345'

Δ = 26° 36'
R = 91.25
L = 42.36
d = 18.83

2.66 373.15 p13

		Base Line	
0+80	℄ crosses pav edge Ely	378.17	7.62
0+51	3.8 Lt to (W)	376.36	
0+50	L. 2°12' defl. Lt. Chisel "X"	9.43	
0+25		375.20	10.59
0+02.2	3.5 Lt to (W) 4°00' defl. Rt of Semi tan	374.91	
0+00 Nly	← chisel "X"		10.88
	end Sly		
2+25	6°28.294'	388.8 +3.0 4.5 toe	389.1 +3.3
2+00	5°35.161'	386.1 +0.3 5.0 toe	386.9 +1.1
1+75	4°42.028'	384.1 1.7 4.6 toe	384.8 1.0
1+50	3°48.895'	382.2 3.6 4.3 toe	382.8 3.0
1+25	2°55.762'	380.4 5.4 3.5 toe	380.9 4.9
		π 385.79	

		Base Line	
BP in Base BM Light Post		8.42	373.16 P24 P13
TP6	1.04 381.58	13.26	280.54
L. 71°05'30" NE up ℄ 10' Lane			
Chisel "X"			
2+52.51 Int ℄ 10' Ely Lane		392.25 1.55	
2+25		390.00 3.80	
2+01 3.1 Lt to (W)			
2+00		388.03 5.77	
1+75		385.97 7.83	
1+50		383.88 9.92	
1+37 3.0 Lt to (W)			
1+28 crosses pav edge Ely		382.10 11.70	
TP5	12.47 π 393.80	380.53	4.46 381.33
1+10 L. 8°33'30" defl. Rt. PK nail		5.26	
1+03 2.6 Lt to (W)		π 385.79	

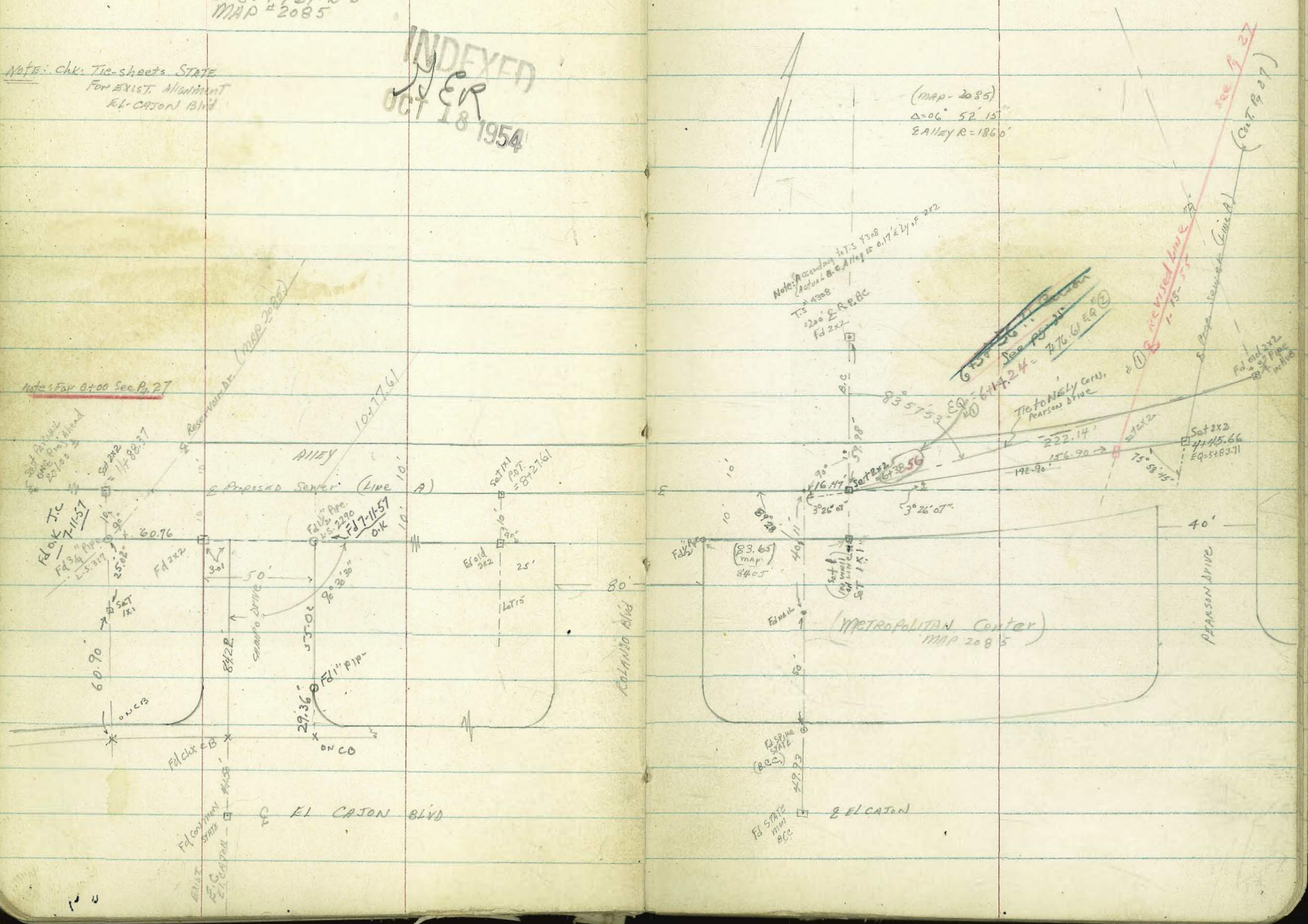
Clark
Shephard
Bruner
O'Neil
10-15-54
W.O. 32498

Proposed Sewer: Alvarado Hts & Metropolitan Center (Montezuma Rd - El Cajon)

Ref: T.P.S ± 4307-4308
DWG: 1421-B-D
MAP ± 2085

INDEXED
by ER
OCT 18 1954

Note: Chk: Tie-sheets State
For Exist. Alignment
El Cajon Blvd



J.m.c.
1-13-55

ALVARADO HTS & METROPOLITAN Center (Cont.)

Sketch not to scale
See Pg 28 For Notes:

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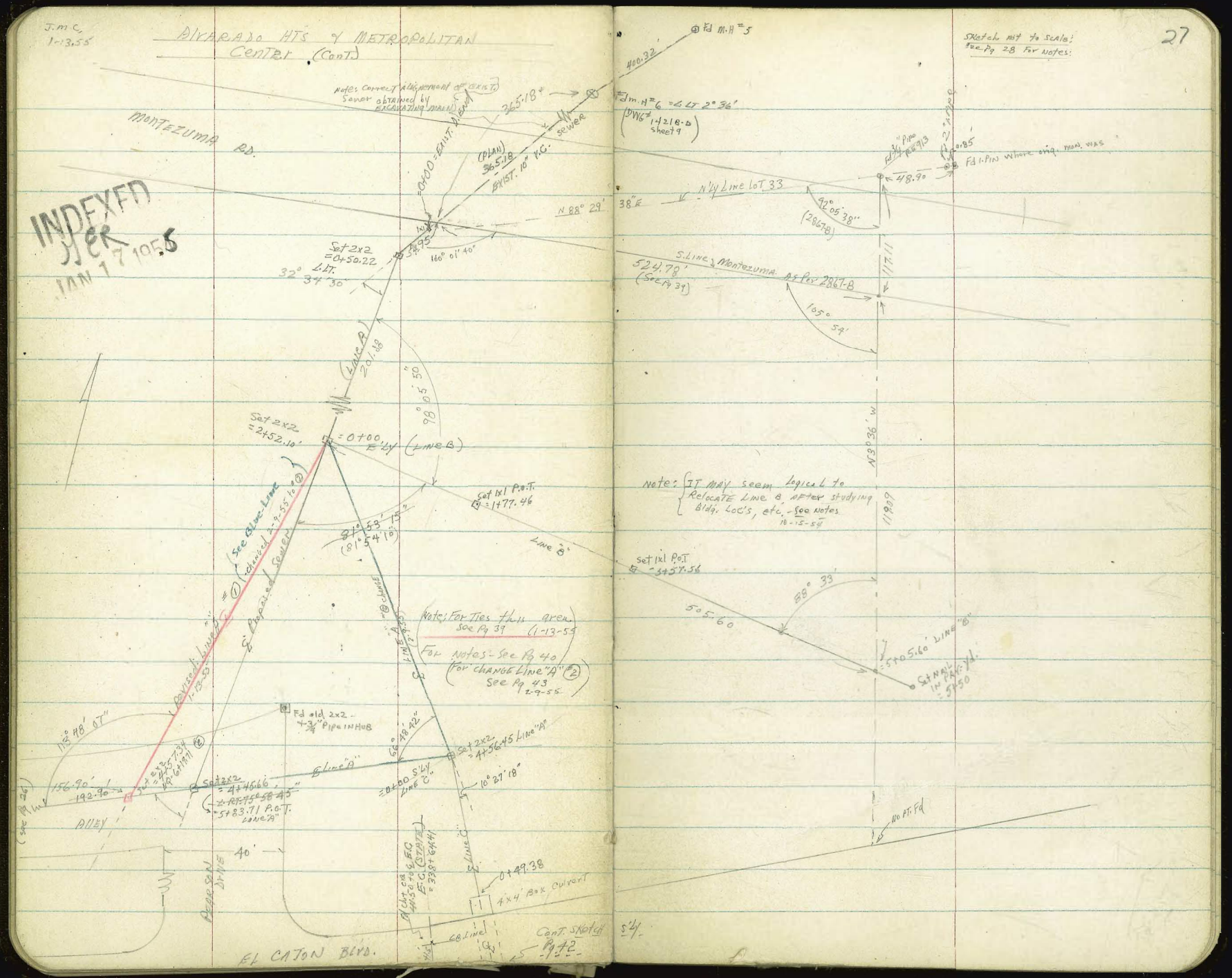


PROPOSED SEWER:
ALVARADO HTS & METROPOLITAN CENTER
LINEA

0+64		℄ Intersects 6" wire Fence - Fence runs SW'ly		
0+50.22 =	∠ LT.	32° 34' 30"		(Sect 90° 10 BK tang)
0+45 =		Toe Slope (Fill S'ly Montezuma)		
0+42.5	4	RT = E'ly edge Wing-wall		
0+37.5		8.0' RT = E'ly edge. 11.9' conc. headwall: RT. ℄ Culvert, 60"		
0+00 =		D. End EXIST. 10" V.C. Sewer		
T.P.	1.31	417.92	13.07	416.61
T.P.	0.17	429.68	13.20	429.51
T.P.	0.92	442.71	12.34	441.79
BM	0.40	454.13		453.73 = S.W. B.P. EL CAJON & 67th

Notes reduced by: L.G. Larson 12-17-54

LT.	℄	RT.
402.9	401.5	399.9
15 / 10	16.4	18.0 / 10
402.6	401.7	400.0
15.3 / 10	16.2	17.9 / 10
		402.12
		15.80 / 4 TP wing-wall
		405.97 / 399.9
		11.95 / 8.0 TP hdwall; 18.0 / 11.9 F.Line
428.7	429.5	405.8
+10.8 / 10	+11.6	12.1 / 10
	417.92	

ALVARADO PTS (Cont.)

		LT.	℄	RT.
0+87	19.6' LT = 90° ∠ Fence – angles S'Ly			
0+52	℄ Crosses 6' wire Fence – (See 0+00 below). (Broken & in disrepair)			
0+50		409.3 8.6 10	408.9 9.0	409.6 8.3 10
0+00 Line B – E'Ly	(24' RT 6' wire Fence) E'Ly & W'Ly Fence	404.9 13.0 10	405.0 12.9	404.9 13.0 10
Note: Beg Line B. here – Cont. Line A – pg. 34				
	Set TBM on 2x2 = 2+52.10 Line A 12.88 405.04			
2+52.10 =	INT. Line B = 0+00 E'Ly	405.9 12.0 10	405.0 12.9	405.2 12.7 10
2+00	18 RT ℄ DEADMAN	405.3 12.6 10	404.2 13.7	403.9 14.0 10
1+90	19 RT ℄ 6" Tree			402.9 15.0 20 Low pt.
1+80	36' RT = ℄ Pole # 472622			
1+50	50' RT = Low-pt. Draw – Canyon splits to S'W'Ly (Reservoir Rd) & S'Ly	404.8 13.1 10	404.4 13.5	403.7 14.2 10
1+19	35.0 RT = ∠ LT. (S'Ly) in Fence			400.5 17.4 50 Low pt.
1+00		404.3 13.6 10	403.3 14.6	402.9 15.0 10

Rises

Rises.

Rises

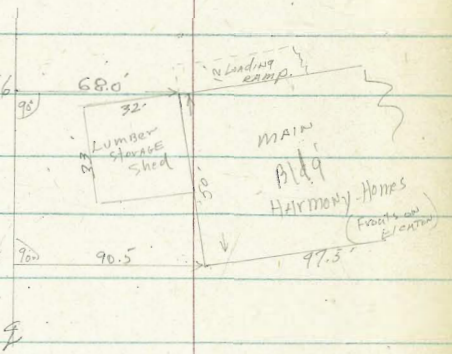
grd rises

417.92

ALVARADO HTS (Cont.)

Line B

2+55	Brk				
2+00					
T.P.	12.98	441.38	0.89	428.40	



1+75	90.5 RT	= N'ly Corn Bldg (Harmony Homes etc.) 2-Storey Taff			
1+65	= Brk				
1+50					
T.P.	12.27	429.29	0.90	417.02	
1+00					
0+92	℄ Crosses Wire Fence - (Broken - down) (Fence runs S'ly) (See L481)				

Lt.	℄	Rt.
434.6	433.6	433.2
6.8 / 10	7.8	8.2 / 10
430.5	430.2	429.4
10.9 / 10	11.2	12.0 / 10

441.38

426.8	427.4	426.8	422.75
2.5 / 10	1.9	2.5 / 10	6.54 90.5 Lower Floor
422.3	423.8		
7.0 / 10	5.5	420.7	
	421.6	8.6 / 10	
	7.7		

429.29

416.9	416.8	416.6
1.0 / 10	1.1	1.3 / 10

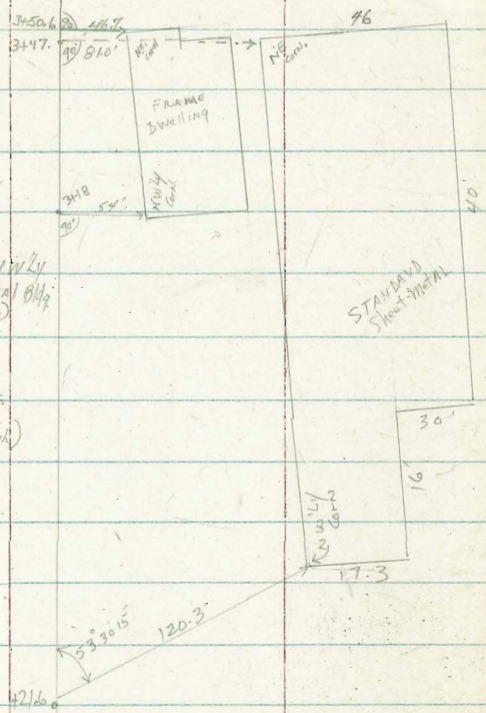
417.92

3+245 146 RT to NWly Corn. garage

3+18 54' RT NW'ly Corn House (2 stories)

3+15 Brk

T.P. 12.71 45402 0.07 441.31



3+08 6.6' RT Edge WALL & PATIO - Area

3+00 100± RT NW'ly Corn; Sheet metal Bldg (see sketch)

2+91 10.8 RT Beg 10" Conc. WALL along Paved PATIO - Area (3 sides)

2+85 15' RT Beg. Conc PATIO & BARBecue Area

2+68 Brk

LT ℄ RT 31

445.3 441.1 441.0 444.1 444.0 438.2

8.7 12.9 13.0 9.9 10.0 15.8

HSES 40 10 3 10 5.4 Lower Floor

454.02

442.78 439.08

+1.40 2.30

6.6 7.4

TP WALL CONC PATIO

439.1 439.1 439.3 436.32

2.3 2.3 2.1 5.06

10 8 Fl. NW'ly Corn STD Sheet metal Bldg.

442.73

+1.35

10.8

TP WALL

438.97

2.41

1.5

TO CONC PATIO

437.8 437.7 434.9

3.6 3.7 6.5

10 TOP BANK 10 TOE

441.38

ALVARADO HTS (CONT.)

4+77 - BRK

4+59 Beg Asphalt Cold-Lay. POV - Beg Parking Area

4451 16.8 LT End Bldg (SELy Corn)

4450

4443 14.0 LT - ℄ NLy in Bldg

4429 ℄30 wide Conc Walk 6.3 RT

4427 7.6 LT End Porch

4415 7.6 LT to SWly corn. Porch - "Farm Dining-Room" (2-storey Bldg) 13.4 LT to SWly Corn Bldg

4408 9.3 RT ℄ 10" Tree

4400

3782 ℄ Crosses 3 wire Fence - runs NLy & SLy

~~3750~~

3750

3743 10.6 RT to NELy Corn gar.

LT. ℄ RT.

451.5 451.4 451.5 452.5 452.6

2.5 2.6 2.5 1.5 1.4

10 4 7 10

452.4 452.5 452.5

1.6 1.5 1.5

5 Edge 5 SLy Edge

Edge

452.4 452.4 452.5

1.6 1.6 1.5

5 10

455.14

+1.12

Fl. Elev.

451.7 451.5 451.10

2.3 2.5 3.0

10 10

450.8 450.7 450.5

3.2 3.3 3.5

10 10

449.8 448.8 448.5 447.9

4.2 5.2 5.5 6.1

25 10 10

454 02

ALVARADO HTS (CONT.)

CHK. 0.27 453.75 = 453.73 =

5+50

5+25

5+21.5 42.6 LT = SE'ly Corn Bldg.

5+12.5 11.8 LT = S'ly END Sign-Board & Bill-Board (8"x10" Supports)

5+09 42.5 LT = S w'ly Corn. Office Bldg (Cor. Lot.)

5+07 14.3 LT & Pole # 471293

5+05 10.65 LT = S'ly End N'd S. Wall - 8" Blk Conc.

5+04 9.6 RT N'ly to END 6' Steel-wire Fence - N'ly & S'ly Fence
Beg. P.V. Asphalt in Cor. Lot

4+93 = E'ly Edge Drive

4+84 = W'ly Edge Paved N'ly - S'ly Drive

LT.	℄	RT
Starting B.M.	448.7	
	5.3	
449.3	449.1	448.8
4.7	4.9	5.2
10		10
449.55		
4.47		
42.3 Ft.		
450.2	449.5	449.0
3.8	4.5	5.0
10		10
450.4	449.5	448.6
3.6	4.5	5.4
10		10
450.3	449.6	448.5
3.7	4.4	5.5
10		10
	454.02	

ALVARADO YTS & METROPOLITAN Corridor (Cont)

T.P.	11.84	440.70	0.08	428.86
4+00	= toe slope ahead			
T.P.	11.68	428.94	0.28	417.26
3+50	-			
3+20	= Brk.			
3+05	16.15 LT	= ℄ Clump 3 Pepper trees - Av. Size = 6"		
3+00	=	Bottoms DRAW & toe Slope ahead		
2+89		℄ Crosses N'ly & S'ly Fence - Angles to S'ply (See Angle Pt. below)		
2+79	6.0' RT	= ℄ PT IN Fence (N'ly & S'ly Fence meets E'ly & W'ly Fence) Angles S'ly		
2+77		℄ Crosses. Broken down wire Fence (E'ly & W'ly)		
CONTINUE LINE "A" (see Pg 29)				
T.B.M. { 2x2 HUB 2+52.10 LINE A. Pg 29 }	12.50	417.54		405.04

	LT.	℄	RT.
	409.9	418.7	420.7	422.1
	19.0	10.2	8.2	6.8
	155	10		10
	toe slope & Bott. Draw			rises
		428.94		
	405.5	410.4	412.2	414.2
	12.0	7.1	5.3	3.3
rises	30	10		10
	Bott Draw			rises
		405.5	408.5	410.0
rises		12.0	9	7.5
		10		10
				rises
		406.9	405.4	408.8
		10.6	12.1	8.7
		10		10
				3rd rises
			417.54	

Alvarado Pt's & Metropolitan Center (Cont)

		(Exist. Plumb. Approx. 3' East of NW Corn.)		
6+46.5	10.3	Lt = NWly Corn. Commerc. Bldg		
T.B.M.	on 2x2 Hub &		2.32	449.96
6+38.56 = ∠ Rt 3°26'07"				
6+26.5	11.0	Lt. NE Corn. Commerc. Bldg		
6+00	12.3	Lt NW Corn. garage		
	12.4	Lt NE Corn. garage		
5+90	43.8	Lt to NWly Corn Realty Bldg		
	(Exist. Plumbing Approx. E Bldg)			
5+64	44.2	Lt = NEly Corn. Bldg (San Diego Realty)		
5+50				
5+00				
4+84	19.5	Lt. Bgn. Asph. paved p/c/g drive - Extends Sly to Et Corn		
4+45.66 ±		Sect. 90° Fwd. Tang.		
	Note:	Area here being Filled	Ely of Brow-Draw	
4+45.66 = ∠ Lt 75°58'45"		(Sect 90° Bk Tang.)		
= Approx. Shoulder.		Ely slope into Draw		
T.P.	11.67	452.28	0.09	440.61

Lt.	℄	Rt.
450.03	450.01	450.0
2.25	2.27	2.3
10	1	
	E. Pav	
450.28		450.8
2.00		1.5
11		10
H.el.		
447.83	447.98	448.2
4.45	4.30	4.1
10	3	
	E. Pav	
449.3	446.4	
3.0	5.9	
10	110'	
	Brow Canyon drops off	
449.97	446.76	446.6
2.31	5.52	5.7
44.2	6.0	
Fl.el.	E. Pav	
447.1		
5.2		
10		
444.44	445.23	444.8
7.87	7.05	7.5
9.5	9	
Edge Asph.	E.P.	
444.4	442.8	
7.9	9.5	
10	47	
	Brow Canyon drops steeply	
440.9	439.5	
11.4	12.8	
10		
439.3		
13.0		
10		
419.5	433.5	439.5
32.8	18.8	12.8
32	10	
toe	on Slope	
442.7		
9.6		
10		

452.28

ALVARADO HT'S ✓ Metropolitan Center - Cont

9+50	Note: Beg. area of wrecked cars, engines & debris parked in alley			
9+16	55' LT = NW Corn. Bldg			
9+06	(Ex. Plumb. 2' WLY of Corn.) 55. LT NE Corn. Office Bldg			
9+01	Approx. 13.0 LT Beg Asph. Pav. Area - Extends sly to El Cajon; 9.9 LT Beg 5' board Fence (Used car Lot.			
9+00				
8+98	32.6' LT = NW Corn. Dental Bldg			
8+82	20.1 & 32.6 LT = ∠ Bldg			
8+72	32.6 & 20.1 LT = ∠ Pt. Bldg			
8+57	Exist. Plumbing apparently center Bldg; 32.6 LT NE Corn Dental Bldg			
8+50				
8+00				
7+60	0.5' LT End Asph Pav. - Extends to El Cajon			
T.P.	7.29	456.29	3.28	449.00
7+25	3.0 RT ℄ 12" Tree			
7+00				

	LT.		℄	RT.	
	453.59	450.9	450.8	449.8	444.0
		5.4 / 10	5.5	6.5 / 10	12.3 / 100± Approx. Brow Canyon
	2.70 / 55 Fl.				
	450.49	450.3	449.4	447.7	
	5.80 / 13 E.Pav	6.0 / 10	6.9	8.6 / 10	
	452.55				
	3.74 / 32.6 Fl.	451.3	450.5	449.9	
		5.0 / 10	5.8	6.4 / 10	
		451.3	451.1	451.0	447.8
		5.0 / 10	5.2	5.3 / 10	8.5 / 120' Approx. Brow Canyon; Drops Steeply
		449.59	449.34	449.4	449.2
		6.70 / 10	6.95 / 0.5 E.P.	6.9	7.1 / 10
			456.29		
		449.18	449.23	449.1	448.5	446.1
		3.10 / 10	3.05 / 1 E.Pav	3.2	3.8 / 10	6.2 / 100 Approx. Brow Canyon
			452.28		

ALVARADO HTS & Metropolitan Center (Cont.)

11+10		=toe NLy & SLy Draw		
11+00	= Brk			
10+81.5		9.9 RT ℄ Pole # 74904		
10+50	(Brk)	59.0 LT = N.W Corn Bldg.		
10+45		51.3 LT = ∠ Bldg		
10+35		51.3 LT = ∠ Bldg		
10+28		59.0 LT = NE Corn Office Bldg		
T.P.	5.45	455.43	6.31	449.98
10+27		14.5 LT End Asph. Var. Area 0.5 LT End 5' Board Fence = Brk		
10+07.5		17.5 LT = NW Corn. Commerc. gar.		
10+00				
9+60.5		17.5 LT = NE Ly Corn gar - Commerc.		

LT.	℄	RT.
440.3	439.8	438.7
15.1	15.6	16.7
10		10
444.7	444.2	443.8
10.7	11.2	11.6
10		10
445.1	444.5	443.8
10.3	10.9	11.6
10		10
452.79		
2.64		
59		
Fl.		
	455.43	
450.3	450.1	449.6	448.4
6.0	6.2	6.7	7.9
14.5	10		10
ed. Pav			
450.8	450.8	450.2	448.0
5.5	5.5	6.1	8.3
10		10	100
			Brow Canyon Angles to SLy here
451.61			
4.68			
17.5			
Fl.			
	456.29		

ALVARADO HT'S & Metropolitan Center Cont

Chk:			0.40	453.69 = 453.73 =
T.P.	1.26	454.09	2.60	452.83
13+00	Shot ahead to indicate ℄ Profile (on private Prop.)			
12+09	37.8 RT = SEly Corn. of San Diego Auto Court Cottages. Note: Most Ely Cottage is Lowest. Fl. elev. of entire group - Cottages			
12+00				
11+88.37	T.B.M on 2x2		6.86	448.57
11+56	= Brow w'ly slope-Draw			
11+36 =	toe Draw w'ly Slope			

SW.B.P 674L + EL CAJON (STARTING-B.M)

LT.	℄	RT.
	453.8	
	1.6	
		450.42
		5.01
		37.8 Fl.
449.6	449.3	449.0
5.8 / 10	6.1	6.4 / 10
449.5	449.6	449.7
5.9 / 10	5.8	5.7 / 10
440.0	439.4	439.0
15.4 / 10	16.0	16.4 / 10
	455.43	

Clark
Shephard
Bruner
O'Neil
1-13-55
W.O. 32498

TIES - ALVARADO HTS SEWER

See also Pg 26-27

Ref: F.B #1638, #1669, #2096
DWG. 2866 & 2867-B.
2865-B
Map #2085

Sketch not to scale:

Note: Both dist. along N'ly Line Lot 33 & along S'ly line Montezuma chk-out longer than map & F.B. distances. This indicates 3/4" Pipe at E.C. of ℄ Reservoir Dr. is approx. 0.08' or 0.09' N'ly of its true position.
J.G.

Clark
Shephard
Bruner
O'Neil
1-14-54
W.O. 32498

PROFILE - REVISED LINE "A" (#1)
STA 2+52.10 to STA. 4+57.34
(See sketch Pg 27)

					LT.	℄	RT.
T.P	11.79	440.14	0.07	428.35			
4+00 = Toe Fill					3.8 / 10	2.1	2.0 / 10
T.P.	12.44	428.42	0.84	415.98		428.42	
3+50					2.6 / 10	1.4	+1.3 / 10
3+10 - Brk ℄						7.5	
3+00					9.0 / 15 Bank; 11.6 / 8 ℄ Draw LT	10.5	7.2 / 10
2+90	= ℄ Draw					11.2	
2+80	1.7 RT = ∠ Fence (See previous notes)				11.0 / 10	10.6	11.9 / 12 ℄ Draw RT; 9.0 / 15 Bank
2+52.10						11.8 grd	
B.M.	11.78	416.82		405.04 = 2x2 = 2+52.10 LINE "A" Pg 29		416.82	

LINE A (CONT.)

LT. ℄ RT

CK: 0.58 = 44991 = 44996 = 2X2 6+ 38.56 = 6+14.24 EQ

44734 = ∠ RT outs ⊥ to BK TANG.

4426 = BRDW

6.5/10 6.89 ON HUB 6.5/10

8.3/10 9.1 8.2/10

T.P. 11.67 450.49 1.32 438.82

450 49

Clark
Shephard
Bfyner
Owen:

2-9-55
W.O. 32498

Proposed Sewer - La Mesa Colony
Lots 33, C, & Part 34

Ref: State Tie-sheets XI-SD-12-SD-6,-7
R-S 762 - sheet 2
" " 964

INDEXED
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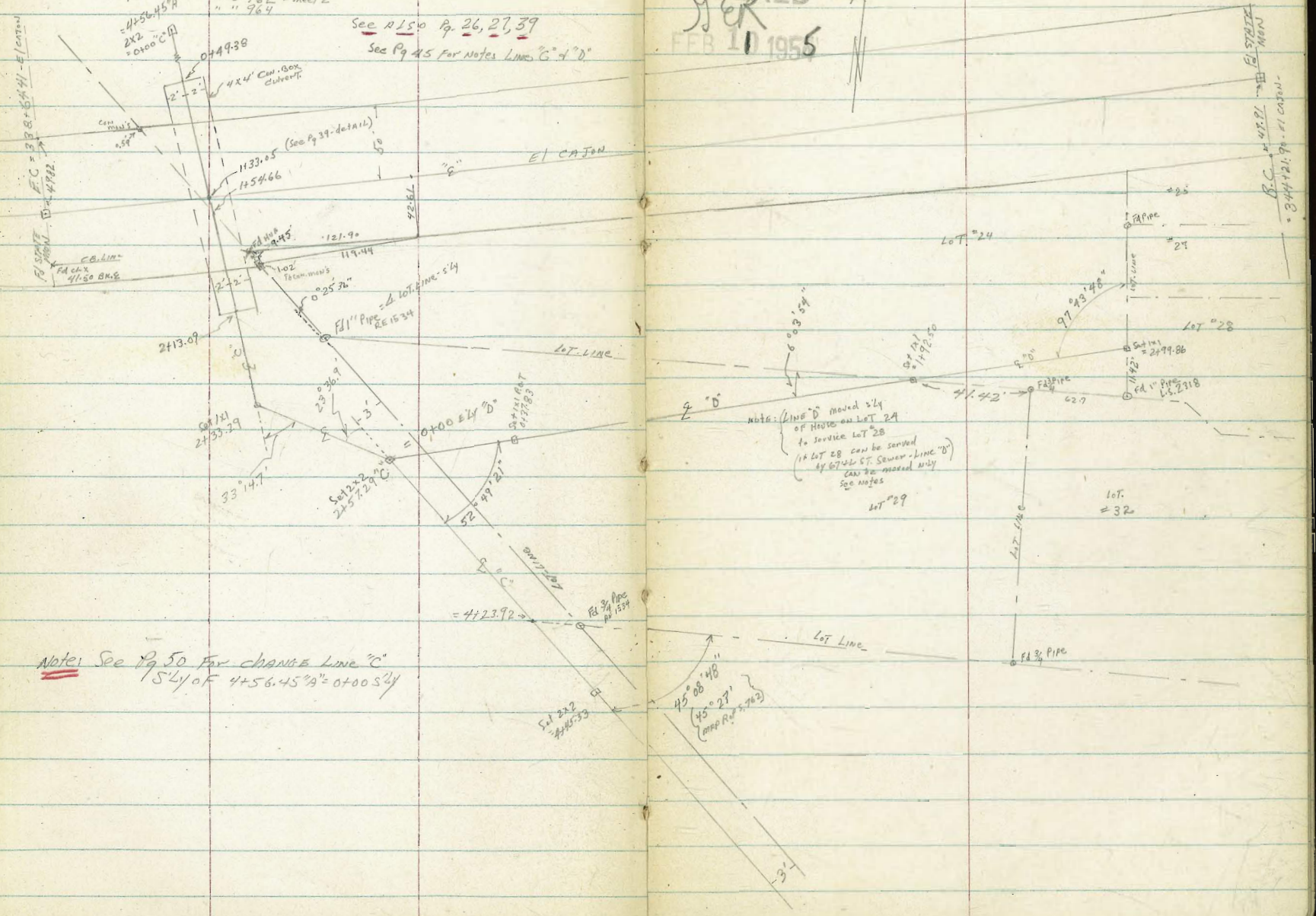


"② LINE A" CHANGE: From 2x2 = 2+52.10
to 6+19.71 - (E.Q. =

5+00	toe	orig. Slope	
4+74	= ℄	DRAW	
	L. RT	SECT 90° FOR. TANG.	
4+56.45 = L. RT. LINE "A" (SECT 90° BK TANG.) Δ = 113° 11' 18"			
4+00			
3+66	cross 3' Broken down Board Fence		
3+50			
3+00			
2+77	cross 5 wire Fence		
2+52.10			
B.M.	10.18	415.22	405.04 = 2x2 : 2+52.10 Pg. 29

LT.	℄	RT.
410.4	409.7	409.6
4.8/10	5.5	5.6/10
	408.6	
	6.6	
411.3	411.0	411.2
3.9/10	4.2	4.0/10
418.7	411.4	411.0	409.8
+35	38	4.2	5.4/10
5 TP Fill	3 To Fill		
	410.9	409.9	409.0
	4.3/10	5.3	6.2/10
	Approx. Toe Fill		
410.4	409.7	410.3
4.8/10	5.5	4.9/10
407.8	407.0	406.3
7.4/10	8.2	8.9/10

415.22/1

② Line Change "A" (Cont.)

					LT.	℄	RT.
Chk:			0.40	449.93 = 449.96 = 2x2 ∠ = 6+14.24 EQ #① = 7+76.61 EQ #②			
See pg. 45 For Line S'ly of {=0+00 "C" / 4+56.45} - "C" Line							
6+19.71 = (4+57.34 EQ #①) See pg 41 - Notes					444.1 / 6.2 / 10	443.6 / 6.7	443.2 / 7.1 / 10
5+89 =	Tp. Fill - Brow				442.5 / 7.8 / 10	441.8 / 8.5	441.0 / 9.3 / 10
T.P.	11.43	450.33	0.05	438.90		450.33	
T.P.	12.13	438.95	0.43	426.82			
5+50	= Toe Fill				420.8 / 6.5 / 10	420.0 / 7.3	419.3 / 8.0 / 10
T.P.	12.35	427.25	0.32	414.90		427.25	

"C" Line - STA 4+56.45 "A" - Line = 0+00 "C"
Line - S'ly

2+84				
2+77	6.8 RT = Fc E'ly Edge 4' Palm Tree			
2+57.29 = ∠ RT. = 0+00 "D" Line E'ly	(OUTS ⊥ to BK TANG.) = toe E'ly Slope - FILL			
2+41				
2+33.29 = ∠ LT.				
2+13.69 = Fc WALL				
2+13.09 = S'ly Fc. h'dwall 4x4 Culvert.	8' LT. = E end head wall 8 RT. - W. " "			
T.P.	7.45	420.55	0.53	413.10
0+71.38 =	2' LT ℄ 18 R.C.P.			
0+49.38 = Fc. h'dwall ℄ 4x4 Con. Box Culvert	8.55 LT End Wingwall 8.55 RT End Wingwall			
0+48.78 =	Fc Wingwall Lip (0.60 BK Lip Box)			
0+00 = "C" Line = 4+56.45 "A" Line (Chang #2)				
B.M.	8.59	413.63		405.04 = 2x2 = 2+52.10 LINE "A" Pg 29

LT. 423.9 ℄ 416.9 RT. 413.9
+3.3 / 10 — 3.7 — 6.7 / 10 — rises

418.3 414.2 413.4
2.3 / 10 — 6.4 — 6.9 / 10

413.9
6.7

415.7 412.9 412.0 412.6
4.9 / 10 — 7.7 — 8.6 / 7 — 8.0 / 10 — rises

411.05 410.15
9.50 Lip Wall — 10.40 Bott. Wall

417.6 417.17 411.47 415.49 411.10 413.9
3.0 / 10 grd — 3.38 TP h'dwall — 9.08 F.L Box Lip — 5.06 TP Box Inside — 9.50 Bott. Box — 6.7 / 10 grd

420.55

411.85 = Act. Elev.
2 F.L 18" R.C.P

412.3 408.18 409.08 415.66 36 409.58 413.70 409.08 410.1
408.09 Act. Elev. 8.5 FTG H'dwall N'E'ly End — 1.3 / 8.5 grd — 5.45 Bott. Wall AT ℄ — 4.55 Lip Wall AT ℄ — +1.73 TP h'dwall — 4.05 F.Line Lip Box — +0.07 TP 4x4 Culvert inside dim. — 4.55 Bott. Box — 408.10 Act. Elev. 8.5 FTG Wall — 3.5 / 8.5 grd (CLK. Const. Plans) (For Acc. thickness Conc. Bottom)

2.6

413.63

End "C" Line – Beg. "D"

8+16	11' LT = Sly Fc 1' Tree (EUCALYPTUS), 14' LT Fc 2' Tree, 18' LT Fc.					30" EUC. TREE
0+00 "D" Line	= Toe Fill slope Sly					
See below. (T.P.)						
T.P.	12.31	426.43	6.43	414.12	= 2x2 0+00 "D" LINE 2+57.29 "C" LINE	
5+00						
4+50						
4+40	3.5 RT Fc 1' Tree – EUCALYPTUS					
4+00	= ℄ Small open ditch in Bott. Ravine					
3+50						
3+33	= toe ℄					
3+00						
2+94						

LT.	℄	RT.
416.8	414.1	414.3
9.6/10	12.3	12.1/10
	426.43	
	418.5	
	2.1	
417.9	417.9	418.4
2.7/10	2.7	2.2/10
417.1	417.2	415.3	417.1	417.3
3.5/10	3.4/3	5.3	3.5/3	3.3/10 rises
416.9	416.0	415.4		415.7
3.7/10	4.6/6 Toe	5.2		4.9/10 Rises
419.9		415.2		415.2
0.7/10		5.4		5.4/10 Rises
424.3		417.3	414.6	413.6
+3.7/10		3.3	6.0/6 Toe Fill	7.0/10 Rises
		419.4		
		1.2		
		420.55		

LINE "B"

1+41	60.8' LT = SELY CORN SERVICE STA ET AL			
T.P.	12.65	448.56	1.63	435.91
1+25				
1+16	6' LT s'ly FL. 30" EUC. Tree			
1+01	49' LT = SW'ly CORN. Bldg - SERVICE STATION & GARAGE			
1+00				
0+50				
0+35 =	BROW FILL			

Note: outs EXTended so THAT IF LINE "B" moved - NO NEW PROFILE NECESSARY

0+25.5	13 LT FL. 30" EUC. - Tree			
T.P.	12.15	437.54	1.04	425.39
0+18	18' LT FL. 30" EUC. Tree			

LT. ℄ RT.

435.8
1.7

435.32 434.8
2.22 2.7
49 49
FL. ELEV. grd

434.6 434.8 434.9 434.7 434.8
2.7/30 2.7/10 2.6 2.8/10 2.7/30

434.4 434.4 434.3
3.1/10 3.1 3.2/25 = SLY BROW FILL HERE

434.7 434.3 433.9 434.3 434.1
2.0/30 3.2/10 3.6 3.2/10 3.4/15 BROW FILL HERE

437.54

LINE "D"

2+34	4.5 RT	Beg 3' Picket Fence, also = N'ly Corn. S' Steel-wire Fence s'ly LT- Line
2+34	18.1 LT	= L N'ly IN Bldg; 31' LT = L E'ly Bldg.
2+19	19.1 LT	= L E'ly IN Bldg
2+19	33.6 LT	= L S'ly IN Bldg
2+17		
2+07.5	34.2 LT	= S W'ly Corn. House - Lot #4
2+00		
1+85		
1+75	: BVK	
1+72 ±	6 LT (approx)	= S W'ly Corn. EXIST Cesspool
1+50		

LT.	℄	RT.
448.11	443.6	443.8
	4.8	6.4
	19	
0.45	5.0	
34.2	34.2	
Fl. Elev.	grd	
	439.5	438.6
	9.1	10.0
	10	
442.1	441.0	437.4
6.5	7.6	11.2
50	20	
437.7	437.9	437.2
10.9	10.7	11.4
50	20	10
436.8	436.0	435.6
11.8	12.6	13.0
50	10	

442.2
6.4

441.8
6.8
10

437.3
11.3
10

436.5
12.1
10

436.4
12.2

436.2
12.4
10

435.6
13.0
20

435.4
13.2
10

435.0
13.6
42
S'ly BANK
F.11

448.56

LINE "D"

Chk.			0.05	453.68 = 453.73 = 5W	B.P EL CAJON 4674
TP	5.79	453.73	0.62	447.94 = 1x1 = 2+99.86	"D"
3+00					
2+85	9.6 RT ℄ Pile "7216				
2+73.5	8.4 RT END 3' Picket-Fence				
2+69	28' LT = SELy Corn. Bldg				
2+50					
2+44	6' LT Fc. 2' Pepper Tree				

LT.	℄	RT.
		448.1
		0.5
		20
	448.1	
	0.5	
		448.0
		0.6
		10
445.4		
3.2		
20		
445.2		
3.4		
10		
	444.8	
	3.8	
		444.4
		4.2
		10
	448.56	
	TP	

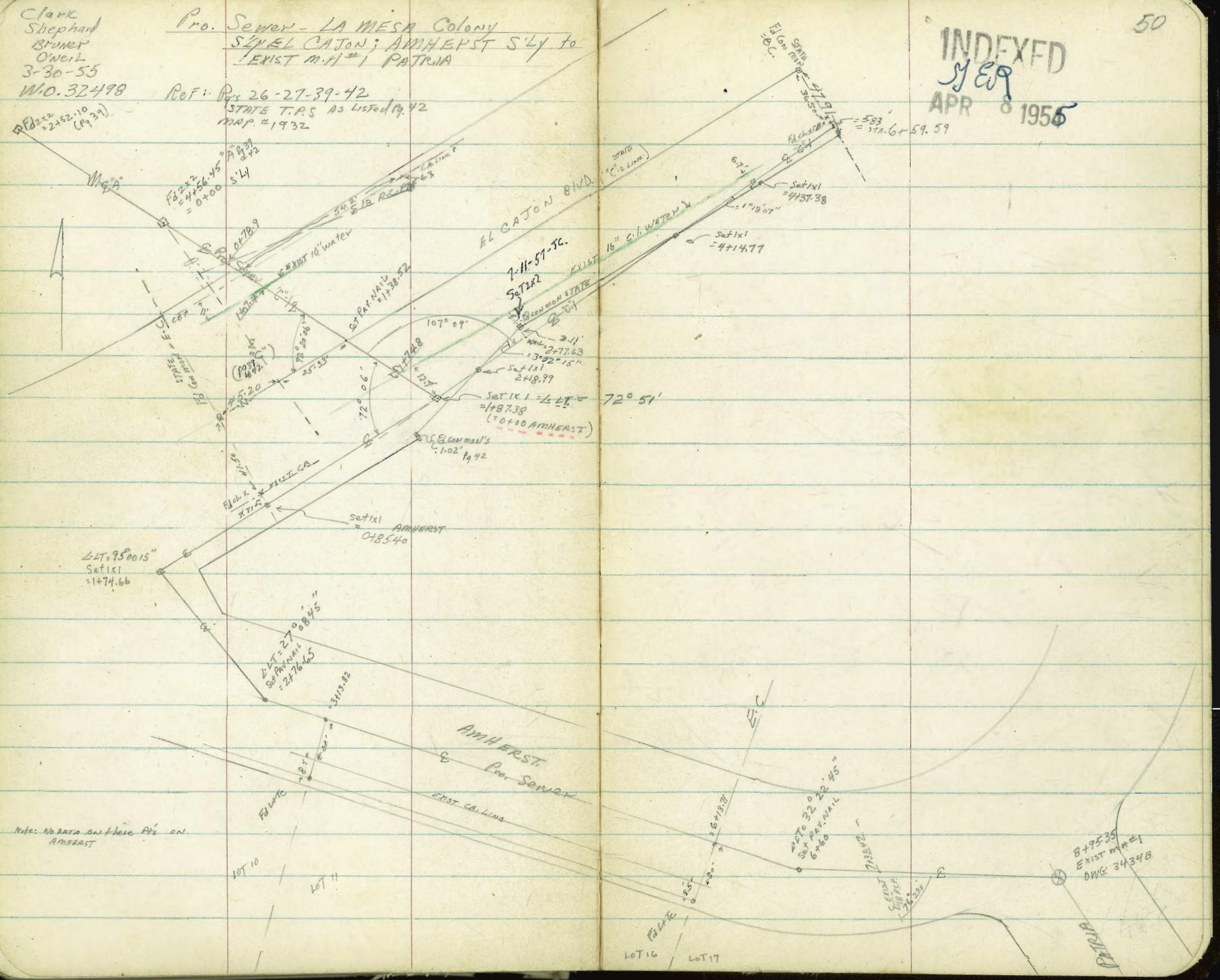
Clark
Shephard
Bruner
O'Neil
3-30-55
W.O. 32498

Pro. Sewer - LA MESA Colony
S/y EL CAJON; AMHERST S'ly to EXIST M.H. #1 PATRIA

Ref: Rds 26-27-39-42
STATE T.A.S As Listed Pg. 42
MRP. #1932

INDEXED
APR 8 1955

50



Prop. Sewer - SE'LY EL CAJON - (LA MESA Colony) Line "C"-1

0+84.5 = Brow 10' LT ℄

0+81.4 = Brow Fill ℄

0+78.9 ± = ℄ Prop. Sewer & ℄ (approx.) of EXIST. 18" R.C.P. (outs along approx. Line 18" R.C.P.)

0+78 = Brow of Fill - El CAJON 10' RT.

T.P.	6.64	439.56	0.08	432.92
T.P.	12.09	433.00	0.61	420.91

0+68 13.3' LT = SW'LY END 8" wide Conc. Ret. Wall Meets Harmony Homes Bldg at approx. 90° to Bldg

0+50.5 - Brk 0.55' RT = NE'LY Corner H'dwall

0+35 = Toe Fill ℄ (Toe Fill LT. & Toe Fill on EL CAJON)

0+00 = (4+56.45 Line "A") Pg 39

T.P.	10.54	421.52	5.66	410.98
B.M.	11.60	416.64		405.04 = 2X2 HUB

∠ 2+52.10 Pg 39-40

LT. ℄ RT.

430.6 9.0 30 | 432.1 7.5 20 | 434.3 5.3 10 | 434.5 5.1 | 434.7 4.9 10 | 434.9 4.7 20

434.3 5.3

427.24 12.32 63 = ℄ Cleanout = F.L. 18" R.C.P. | 432.4 7.2 grd | 411.85 = Act. Elev. 16.0 ± = F.L. 18" Pipe where it enters 4'x4' Culvert (See Pg 45)

426.66 12.9 20 | 429.1 10.5 10 | 432.1 7.5 | 434.6 5.0 10 Brow Fill | 434.9 4.7 20

439.56

notes reduced 4-8-55 R.G.C.

420.52 1.00 13.3 TP | 418.2 3.3 13.3 FTG

419.5 2.0 30 | 418.9 2.6 20 TP Fill | 413.92 7.6 | 415.38 6.14 0.55 TP H'dwall (See Pg. 45) | 416.42 5.10 10 grd

419.3 2.2 30 Dirt Drive | 419.0 2.5 21 TP Fill | 410.6 10.9 | 409.3 12.2 10

419.1 2.4 25 Dirt Drive - Level | 419.0 2.5 15 TP Fill | 411.4 10.1 3 Toe Fill | 411.0 10.5 | 409.6 11.9 10

421.52

Line "C" (CONT.)

1+87.38 = ℄ (Sect. 90° For. TANG)

1+87.38 = ℄ LT. 72°51' (Sect. 90° BK. TANG)

T.P. 5.86 439.77 5.65 433.91

1+80.8 Fc. S'ly CB. EL CAJON
℄ Prop. Sewer Crosses CB Line #3 W'ly of ℄ of 35' DRIVE (No Driveway here)

1+74.8 = ℄ Approx. EXIST 16" WATER LINE (outs along ℄ WATER-LINE)

1+45.3 = Fc. S'ly CB. Cent. ISLAND (outs along CB.)

1+38.52 = ℄ CAJON (outs along ℄)

1+31.6 = Fc. CB. N'ly CB. Cent. ISLAND (outs along CB. Line)

1+07.37 = ℄ EXIST 10" WATER. (outs along WATER-LINE

0+95.81 = N'ly CB. LINE EL CAJON (outs along LINE CB.)
3rd BK. CB Flush with CB)

LT. ℄ RT.

433.59 434.0 433.19 433.1
6.18 Drive 5.8 6.58 6.7
6.32 6.32 10 16±
G CB - Brow S'ly Fill & E'ly Fill

433.8 434.0 434.2 434.7
6.0 5.8 5.6 5.2
10 10 24±
Brow Fill S'ly CAJON

439.77

434.16 433.19 433.60 434.06 434.68
5.40 6.37 Drive 5.96 5.50 4.88
30 30 G 30 30
CB G ℄ G CB

433.77 433.93 434.52
5.79 5.63 5.04
30 PAV 30 PAV

435.28 434.75 435.55 435.01 435.49 436.03
4.28 4.81 4.01 4.55 4.07 3.53
30 30 CB G 30 30
CB G ℄ ℄ G CB

435.41 435.64 436.14
4.15 3.92 3.42
30 30

435.19 434.66 435.51 434.93 435.49 436.03
4.37 4.90 4.02 4.63 4.09 3.53
30 30 CB G 30 30
CB G ℄ ℄ G CB

433.93 434.15 434.54
5.63 5.41 5.02
20 PAV 20 PAV

434.04 433.38 434.34 433.68 434.35 435.00
5.52 6.18 5.22 5.88 5.21 4.56
30 30 TP G G 30 30
TP CB CB ℄ G CB

439.56

Line "C"-1 (Cont.)

Sta.	Description	LT.	℄	RT.
2+95	15.6 RT = ℄ Storage Tank Intake Gate - Note: (Exact. Loc of Storage Tanks unknown - owner Claims no tanks Lie N'ly of Pumps			
2+87.	23.5 RT = N'wly Corn. Station Bldg			435.97 3.80 23.5 Fl Bldg
2+70 =	Edge Oiled-Dirt Pav. Serv. Sta (Oiled-Pav Angles From Beg. Drive at CB to N'wly Corn. Bldg.)		434.5 5.3	
2+62.5	6.2' LT Beg. Serv. Sta. Comm. Drive			
2+50		434.40 5.37 16.1 Pav; 433.65 6.12 6.1 G; 434.30 5.47 6.1 CB	434.5 5.3	434.7 5.1 10; 434.7 5.1 20
2+21	= E'ly End Inlet 6.1 LT. 3.3 LT = S E'ly Corn. Con. Box Bk. Inlet	433.20 6.57 6.1 G Inlet; 434.14 5.63 6.1 CB; 434.24 5.53 3.3 Conc.		
2+15	1.85 LT = L N'ly Conc. Slab Bk of Inlet (Box)			
2+13	13.6 LT = ℄ Cleanout. 3.4 LT = ℄ Cleanout.	429.30 10.47 13.6 F.L; 433.96 5.81 13.6 Rim; 431.44 8.33 3.4 F.L; 434.23 5.54 3.4 Rim		
2+11.4	6.1 LT to Fc CB - Inlet W'ly end. 1.85 LT = S. W'ly Corner Conc. Back CB Inlet (Box)	433.14 6.63 6.1 Gut Inlet; 434.17 5.60 6.1 CB; 434.21 5.56 1.85 Conc.		
2+00			433.77 6.00	

439.77

Line "C"-1 (Cont.)

3+27.5	7.5 RT & Gas-Pump
3+23.8	7.3 RT & Gas-Pump
3+20.2	7.3 RT = & Gas Pump
3+17	21' RT & Intake-Gate - St. Tank
3+16.5	11.8 RT & Intake Gate - Storage Tank
3+14.5	7.2 RT = & Gas. Pump
3+13	7.1 RT & 3' wide Conc. Pump-Island =N'ly Edge Con. Pav. Slab Around Pumps 2.6 LT N'ly Edge Conc. 24.3 RT S'ly edge - meets Bldg
3+02.5	6.2 LT. End Comm. Drive
3+00	

434.86 435.49 435.91 435.93 435.92 436.35 435.92

4.91 6.2 G | 4.28 6.2 CR | 3.86 2.6 Edge | 3.84 Edge Conc | 3.85 5 Edge | 3.42 7.1 & Island | 3.85 24.3 Edge Conc.

(oiled - Pav. Flush Conc)

433.96 434.51 435.5 435.4 435.4

5.81 16.3 Pav | Edge 5.26 SB 6.3 G | 4.3 | 4.4 10 | 4.4 20

oiled - Surface.

439.71

Line "C-1 (cont.)

4+00

3+98 = Edge oiled-Surface
(oiled-Surface extends From Ely end Comm. Drive to)
SE'ly Corn. Grease-Rack
No-Paved Driveway

3+85 96' ± RT = N.W Corn Bldg - See Pg 48 For Loc. & Elev.

3+63 6.15 LT Beg Comm. Drive

3+50

T.P. 9.50 44.75 2.52 437.25

3+48.5 22.5 RT = NEly Corn. Conc. Slab.

3+31.3 3.3 LT: Fe. Pole # 78344

3+31.5 = ELy Edge Con. Pav.
7.6: RT: E Con. Island-Pumps
2.2 LT: NEly Corn. Conc.
21.7 RT. Meet's Bldg

3+30.5 12.6 RT E Intake Gate - St. Tank

3+29 { 24.1 RT - NEly Corn Gas Station
{ 21.7 RT: NWly Corn Conc. Slab (Grease-Rack)
(12.5 wide)

438.91 438.36 438.9 439.1 439.8

7.84 Drive 8.39 7.9 7.7 7.0
16.15 6.15 6.15 10 20
Pav. G

438.8

8.0

436.66 436.07 436.73 436.9 437.1 437.1

10.09 10.68 10.02 9.9 9.7 9.7
16.15 6.15 6.15 10 20
Pav. G CB oiled-Surface

446.75

437.05

2.72
22.5
TP
Corn

435.44 436.06 436.16 436.20 436.17 436.40 436.22

4.33 3.71 3.61 3.57 3.60 3.39 3.53
6.15 6.15 2.2 Edge 5 7.6 21.7
G CB Edge Corn Edge Conc. Island

437.06 436.18

2.71 3.59
21.7 24.1
TP Conc. Slab F.

439.77

Line "C-1 (Cont.)

[Cont. A57 – Line S W'ly AMHERST to PATRIA]

T.P.	0.06	442.26	12.35	442.20	
T.P	0.81	454.55	2.44	453.74	= 453.73
T.P.	9.81	456.18	0.38	446.37	
5100					
4453		3.7 Lt = Fc. Pole = 783.75			
4450		0.6 Rt: E Anchor (Dead man. Cable. Rises Vertical. From grid)			
4403		6.1 Lt = End Comm. Drive			

= S.W.B.P
EL CAJON
@ 67th

443.90 443.20 443.84 444.1 444.3 444.6

2.85 3.55 2.91 2.7 2.5 2.2
16.10 6.10 6.10 10 20
Par. G CB

441.29 440.74 441.39 441.9 442.2 442.2

5.46 6.01 5.36 4.9 4.6 4.6
16.15 6.15 6.15 10 20
Par C CB

446.75

AMHERST

T.P	5.49	445.83	1.92	440.34	ON C.B. B.C STA 1+63 6.1 RT ℄
℄	(outs 90° For. Tang.)				
1+74.66	= ℄ LT 95° 00' 15" (outs 90° Bk Tang)				
1+70.5	2.4' RT = Fc. Pole # 78343				
1+66.5	18.2 LT = ℄ Deadman				
1+63.7	6.1 RT = SE'ly CB. B.C. (AMHERST x CATON)				
1+50					
1+40	19 LT = Brow S'ly Fill - CATON SE'ly Fill AMHERST				
1+00					
0+50					
0+26	3.8 RT = Fc. Pole # 171822				
0+00	AMHERST = (1+87.38 LINE 'C-1') Pg 52				

LT. & RT.

445.83

440.4 — 1.9/10 — 441.2 — 1.1/10

440.9 — 1.4 — 0.99 (6.6 CB) — 1.61 (6.6 G) — 0.25 (25 Pav.) — 441.27 — 440.65 — 442.01

440.9 — 1.4 — 1.34 (2.9 CB) — 1.99 (3.9 G) — 1.60 (16.9 Pav) — 440.92 — 440.29 — 440.66

440.0 — 2.3/20 — 439.6 — 2.7/19

439.9 — 2.4/10 — 437.1 — 5.2/7.5 B.F.11 — 435.3 — 7.0/7.5 Brow S'ly Fill Caton

439.6 — 2.7 — 439.0 — 3.3 — 437.0 — 5.3 — 435.1 — 7.2 — 433.9 — 8.4 (See Pg 52) — 442.26

439.50 — 2.76 (5.75 CB) — 3.44 (5.75 G) — 3.05 (15.73 Pav) — 438.82 — 439.21

436.86 — 5.40 (5 CB) — 6.02 (5 Bot.) — 5.62 (15 Pav) — 436.24 — 436.64

435.12 — 7.14 (5.55 CB) — 7.77 (5.55 G) — 7.34 (15.55 Pav) — 434.49 — 434.92

AMHERST

3+50

3+00

2+76.65 = ℄ LT. 27°08'45" (Sect 90° Forw. Tang)

2+56 = E. Edge Pav.

2+50

2+35.3 { 10.9 RT = ℄ ELy Edge Pav.
{ 1.3 RT = SELy Corn. S.D.G+E MH

2+32 4.7 RT = NELy Corn 3.7'X3.7' Conc. S.D.G+E MH

2+00

1+93 16.2'RT = CB E.C. & ELy Edge Pav.

429.6
16.2
40
Top Fill

435.1
10.7
30
=Brow

437.78
8.05
9
E. Pav

437.97
7.86

439.83
6.00

438.6
7.2
47
Brown E Fill

439.6
6.2
30

440.51
5.32
9
E. Edge irreg. Ab. E. Pav

440.68
5.15

441.13
4.70

438.93
6.9
45
E' Brow Fill

440.83
5.0
10

441.38
4.5

439.6
6.2
44
Brown ELy Fill

440.8
5.0
10

441.3
4.5

445.83

437.14
8.69
20
C

437.88
7.95
20
CB

440.40
5.43
7.3
ELy Edge Conc. STRIP curves to wLy CB Amherst

439.93
5.90
20
C

440.64
5.19
20
CB

441.33

441.47
4.36
3.5
E. Pav

441.84
3.99
13.5
Approx E Imp's

442.04
3.79
10.9
Edge Pav.

441.90
3.93
4.7
Rim

437.73
8.10
4.7
F.L

441.77
4.06
15.2
E. Pav

443.13
2.70
39
Approx E Imp's Amherst

441.62
Drive
16.2
CB

441.68
4.21
16.2
C

4.15
16.2
Edge Pav

AMHERST (CONT.)

6+60 = L.LT 32°22'45"	(All-outs 90° BK TANG.)			
6+13.71 = B.C AMHERST				
T.P.	4.01	434.45	6.72	430.44
6+00				
5+50				
5+23	24" LT = Fc. 5.5' Long, 10" wide, Conc. H'dwall = Approx. ℄ EXIST 18" Corrug. Iron Culvert (approx 90° ℄) 20' RT ℄ 2.25' x 3.5' wide Box			
5+00				
4+50				
4+00				
T.P.	1.14	437.16	9.81	436.02

LT. ℄ RT.

419.2	428.4	429.7	429.67	429.83	429.65	429.25	429.91
15.3	6.1	4.8	4.78	4.62	4.80	5.20	4.54
50	42	30	13.5		3.3	15.6±	15.6±
Toe	Brow		E.Pav			G	CB

422.8	423.5	429.8	430.29	430.45	430.19	429.64	430.40
11.7	11.0	4.7	4.16 ~~4.26~~	4.00	4.26	4.81	4.05
40	30	27	8		7.3	20	20
Toe		Brow	E.Pav.			G	CB

434.45

423.2	425.2	430.2	430.61	430.60	430.32	429.88	430.54
14.0	12.0	7.0	6.55	6.56	6.84	7.28	6.62
40	30	27	7		7.3	20	20
Toe		Brow E.Fill	E.Pav.			G	CB

431.36

5.80

	421.52	424.02		431.84		430.92	426.11
	15.64	13.14		5.32		6.24	11.05
	24	24				20	20
	F.L	Tp				grate	F.L
	18"	H'dwall					18"

422.66	424.5	432.0	432.34	432.45	432.25	431.80	
14.5	12.7	5.2	4.82	4.71	4.91	5.36	Drive
35	30	17	6.5		7.3	20	20
toe		Brow E.Fill	E.Pav			G	CB

434.04

3.12

427.9	429.8	434.4	435.86	436.01	435.80	435.34	
9.3	7.4	2.8	1.30	1.15	1.36	1.82	Drive
35	30	22	7		7.3	20	20
Toe		Brow E.Fill	E.Pav			G	CB

437.16

AMHERST

7+92 ℄ AT E. PAV.

7+58 3.6 RT = PT. where C.Lay meets Edge A.C.

7+56 = Edge C.Lay

7+50 7.6 LT = END TYPE "G" CB.
C.Lay EXTends From END CB-GUT. to EL4
Edge A.C (See above)

7+33.47 = { 8.1 LT = CB Fc EINLET 418"
℄ EXIST. 18" CON. CULV. (outs Along Line 18")
32.9 RT = CB. Fc EINLET 418" }

7+16 9.8 LT = CB. 4 PT. IN GUT. where Cold-Lay meets CB. 4 GUT. Line

7+09.4 = 06 RT E. PAV 4 PT. where Cold-Lay PAV. around inlet meets Edge A.C

7+00

6+85 16.9 LT = Beg. Type "G" CB.

LT. ℄ RT. 60

429.50
4.95

429.23
5.22
3.6
Edge PAV.
4 C.Lay

429.15
5.30

429.8 429.40 428.88 429.04 428.34 429.27
4.7 5.05 5.57 5.41 6.11 5.18
25 1.60 1.00 32.1± 32.1±
yrd CB G G CB

429.37 423.07 428.57 428.97 428.25 425.53 429.23 426.40
5.08 11.38 5.88 5.48 6.20 8.92 5.22 8.05
8.1 8.1 8.1 32.9 32.9 32.9 32.9
CB F.L G G F.L CB F.L
18" Box

428.85
5.160
9.8
GUT.

429.15 429.20
5.30 5.25
0.6
E.PAV
4 C.LAY

429.5 429.55 428.93 429.23 429.36 429.39 428.87 429.54
5.0 4.90 5.52 5.22 5.09 5.06 5.58 4.91
25 12.8± 12.8± 2 15.25± 27.75± 27.75±
yrd CB G* E.PAV C CB

429.73 429.13 429.64
4.72 5.32 4.81
16.9 16.9
CB G

434.45

AMHERST.

ChK:			2.66	453.71 = 453.73 =
T.P.	10.02	456.37	0.38	446.35
T.P.	12.55	446.73	0.27	434.18

8+95.35 = ℄ EXIST MH #1
DWG: 3434-8

8+68.5 = PT. or ℄ NEAREST CB. Rot, Etc.

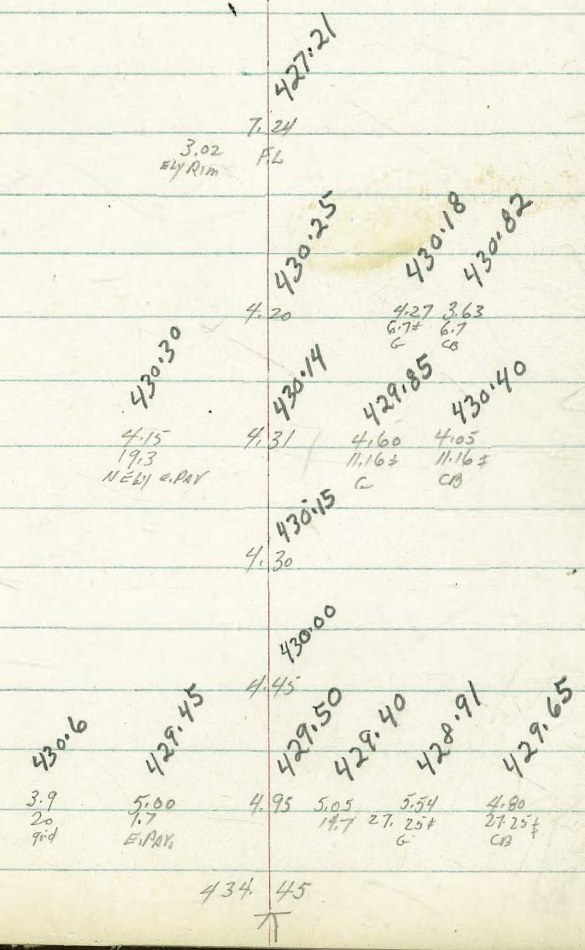
8+50

8+46 = Edge Cove

8+26 Approx ℄ Imp's

8+00

S.W.B.P
67+EL CAJON

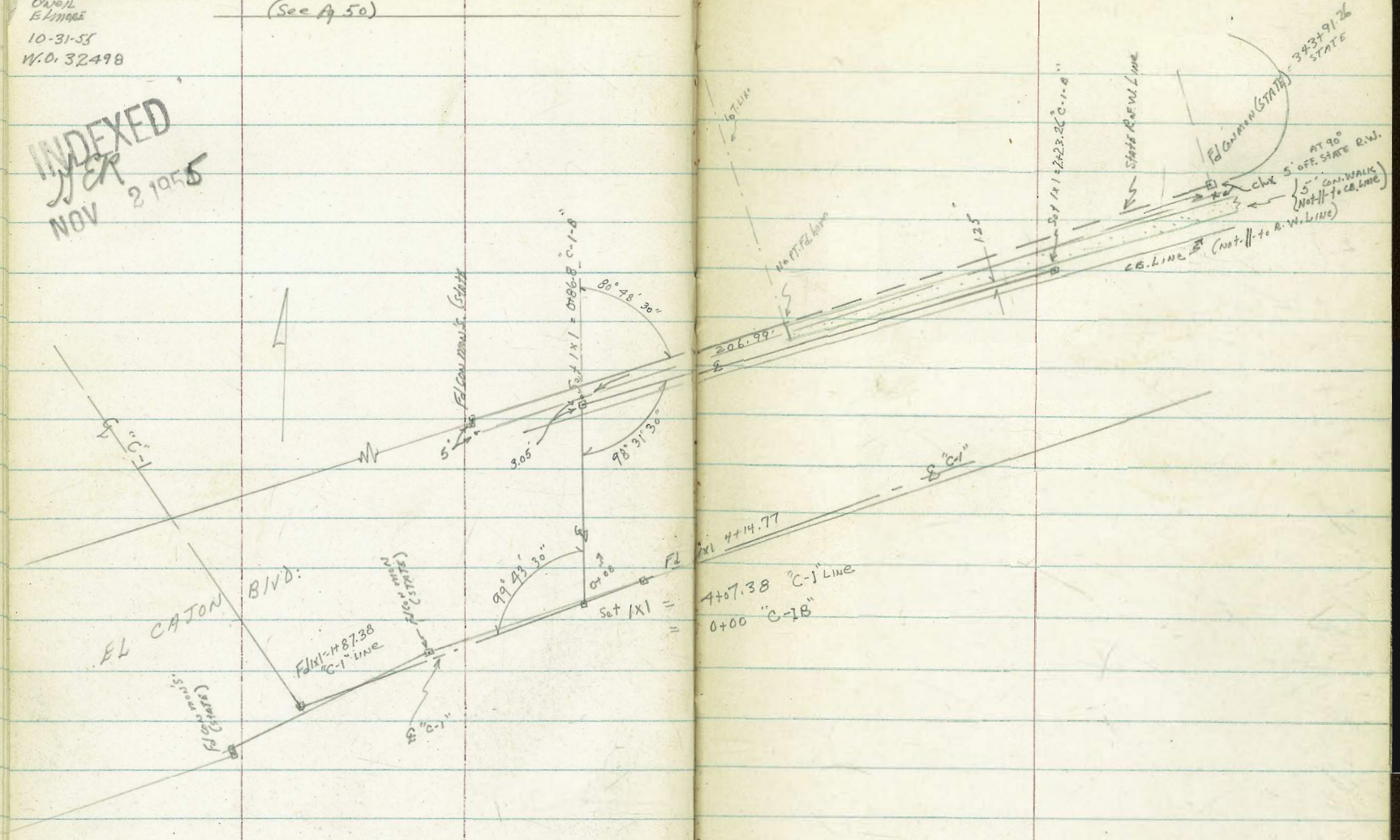


Clark
Gerber
Oneil
Elmore

10-31-55
W.O. 32498

ADD: Notes: "C-1-B" Line - EL CAJON
(See A-50)

INDEXED
NOV 2 1955



ADD: Notes - "C-1-B"

0+83 = Fc N'ly CB. EL CAJON (outs along CB. Line)

0+80.8 = Lip Gutt. (N'ly) (CB Line)

0+65 (A.C Pav.) (outs 90° ℄ Sewer)

0+50.9 = Fc. N'ly CB. Island (Blnk-top Surf. bet. CB's-Island) (outs along CB)

0+39.9 = Fc. S'ly CB.-Island (outs along CB)

0+25 (A.C Pav.) (outs 90° ℄ Sewer)

0+08.4 = Lip Con. Gut. (Type G)

0+06.2 = Fc. S'ly CB - EL CAJON (outs along CB. Line)

0+00 "C-1-B" = 4407.32 "C-1" Line

B.M. Dif. Elev. Rod:

Note: All Readings Are Actual Elev's - Not Rods:

453.73 = S.W.B.P EL CAJON & 67th

Lt.	℄	Rt (N'ly)
439.28 (10 CB) 438.23 (10 G)	439.11 Gut 439.75 CB	439.56 (10 G) 440.21 (10 CB)
	439.20	
439.24 (10)	439.73 A.C. Pav	440.24 (10)
440.08 (10 CB) 439.56 (10 G)	440.03 G 440.58 CB	440.51 (10 G) 441.04 (10 CB)
440.15 (10 CB) 439.67 (10 G)	440.12 Gutt. 440.64 CB	440.60 (10 G) 441.14 (10 CB)
439.35 (10)	439.76 A.C. Pav	440.16 (10)
	438.92	
(Drive) 438.29 (10 CB) 438.82 (10 G)	439.44 Gutt CB	439.28 (10 G) 439.90 (10 CB)
438.9 (10)	439.2	439.9 (10)

1+96.5 3.05 RT Beg. Conc. Comm. Drive

1+96 6.3' LT. END BLK WALL

1+65

1+59.5 6.36 LT Beg 3' high (Step-wall) 0.67 wide Con. BLK WALL

1+56 6.25' LT = N'ly Conn. 5' WALK

1+54.8 1.25' LT Beg Con. WALK (5' wide) END oil Drive

1+27 Beg oil - Drive

1+13 1.1 RT N'ly Fc Pole #516284-H

1+00

0+86.8 = ℄ LT. (cuts 90° For TANG) → (cuts 90° BK TANG)

LT. ℄ RT

445.20
3.05
℄ Edge Drive
At BK CB

446.65 10 | 446.25 7 | 446.41 6.3 TP WALL | 443.65 6.25 BK WALK | 443.57 1.25 F.W. | 443.6 | 443.61 3.5 CB

(Blank TP. Pav. IN PKG. LOT BK. WALL)

443.29
6.25
BK WALK

443.55 7 edge oil Drive | 443.09 1.25 = 3½ edge Con. Walk | 443.07 | 443.11 3.5 CB

442.1 8 toe 9'd | 441.8 5 edge oil drive | 441.74 oil Drive Flush with TP. CB. | 441.68 3.45 CB

440.8 8 toe | 440.6 5 | 440.5 | 440.41 3.7 CB

440.2 8 Toe CUT-BANK | 440.00 5 | 440.00 | 439.79 3.8 Fc. CB TP

439.5 10 | 440.00 | 440.3 10

"C-1-B" (Cont.)

			LT.	℄	RT.
2+43.57	= CB. BC EL COJON	(to LT.) - See Const. Plans -			
2+26.3		(Line passes 0.05' into N'Ly edge Pole # 441076-H)			
2+22.3	6.3'	LT Beg Con. Blk Wall 1.5 high, .67' wide			
2+21.1	3.0'	RT = Drive at CB.			446.55 3.0 BK CB, & Drive
2+19.2	= N'Ly edge Drive at ℄			446.30 ℄	
2+18.3	1.25'	LT = Drive at Walk		446.22 1.25'	
2+17			446.86 10 C.Lay	446.22 6.25 BK.W & C.Lay	446.15 1.25	446.04	445.66 3.45' G
2+00			446.16 10 C.Lay	445.94 6.25 BK.W & edge Cold-Lay	445.31 1.25	445.28	444.77 3.5' G
1+99.5	1.25'	LT = Edge Drive at F. Walk				445.31 Conc.	
1+98.9	= W'Ly edge Drive					445.18 Conc.	

"C-1-B" (Cont.)

LT. & RT.

Chk: 453.74 = 453.73 = STG B.M.

2+64.7 1.35 LT = edge Drive at Bk. Walk

448.53
1.35
Conc.

2+63.7 = 5' Ly edge Drive at ℄ Sewer

448.54
Conc.

2.05 RT = edge Conc Drive at Bk. CB.

2+62 = Walk B.C (to LT)
6.3' LT. and Wall

448.98	448.96	449.04	448.98	448.40	448.50	448.59
10	7	6.3	6.25	1.25		2.05
C.Lay	C.L Bk Wall	TP Wall	Bk. Walk	F. Walk		= Bk CB At Drive

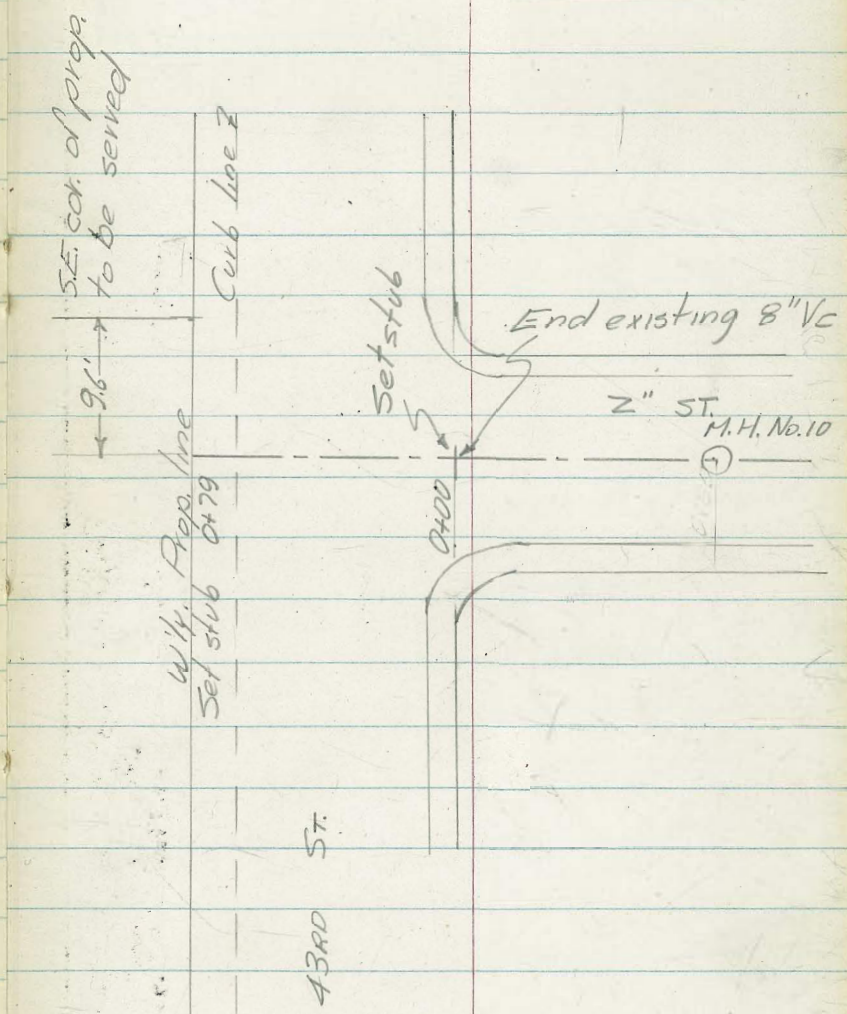
2+50

448.78	448.61	448.70	447.89	447.77	447.8	448.10
10	7	6.3	6.25	1.25		3.25
C.Lay	C.Lay Bk Wall	TP Wall	Bk W	F. W.		CB

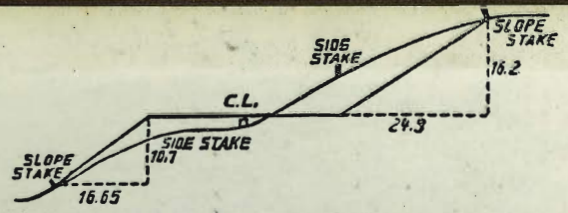
Proposed Sewer
Across 43RD St at "Z" St.

W.O. 62352
10-9-53

76



			LT	℄	RT
				80^{23}	80^{00} 81^{13}
0+79	W'ly line 13RD St 13.5 Rt = SE Cor Bldg to be served.			5^{3}	5^{5} 4^{50} 13.5 gr 13.5 top found.
				80^{97}	80^{40}
0+57	Face top W'ly curb line			4^{56} top cb.	5^{12} gut ℄
				81^{00}	
0+29	℄ 13RD ST.			4^{53}	
				81^{00}	80^{43}
0+01	Face top E'ly Curb line			4^{52} top cb	5^{10} gut ℄
				76^{65}	81^{14}
0-60	M.H. No. 10 Sheet 9990-L			8^{80} IE	4^{39} Rim ℄
				T 85.53	
B.M 6.27	85.53	79.26			



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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