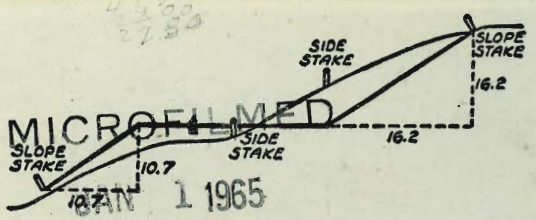
2238

STORM DRAINS



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

INDEX

D. Smith
C. Allen
R. Taylor
R. Parks.

WO # 20982
4-14-52

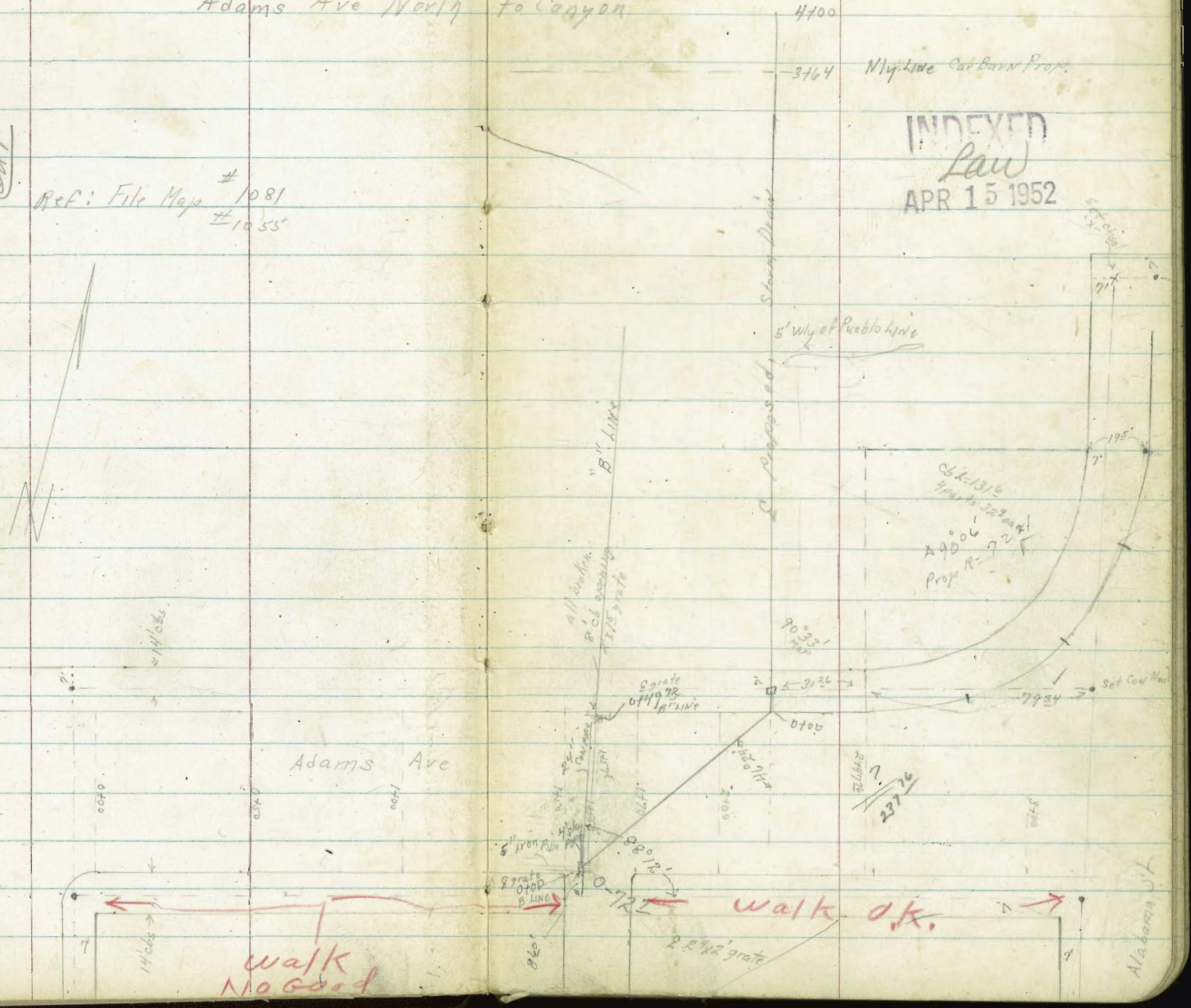
1

Proposed Storm Drain Btw Florida & Alabama Adams Ave North to Canyon

- Fd L+T
H Set Hub

Ref: File Map # 1081
1055

Ck. on Sly. side of Adams is heaved off line & grade & is in general poor shape. Should be left as is or replaced. Not patched or repaired.



	Nly Adams cb	Nly Adams gut	Sly Adams gut	Sly Adams cb	Prop Line	50' South
1+70 Ely Alley	4.68 337.50	5.21 336.47	5.08 337.10	4.79 337.39	4.70 gut 337.48; 4.64 cb 337.54	6.03 336.15
1+60 E Alley			5.12 337.06		4.80 337.34	6.26 335.92
1+57.5 E inlet on North	17.61 324.57 ie 24" pipe N&South	5.42 336.76 grate				
1+55.5 E inlet on South			5.25 336.93 grate	14.71 327.47 ie 24" to North	8.42 333.76 ie 4" from North	8.52 333.66 ie 5" from west
1+50 Wly Alley	4.74 337.44	5.25 336.93	5.15 337.03	4.87 337.21	4.62 gut 337.56; 4.60 cb 337.58	5.90 336.28
1+00	4.26 337.92	4.77 337.41	4.54 337.64	4.04 338.14		
0+50	3.75 338.43	4.32 337.86	4.24 337.94	3.86 338.32		
0+00 E Prop Florida	3.15 339.03	3.62 338.56	3.72 338.46	3.36 338.82		

TP1	3.13	342.18 ✓	0.91	339.05 ✓
	10.87	339.96 ✓		329.09 SEBP Florida, Madison

342.18 ✓

Station	Nly Adams cb	Nly Adams gut	Sly Adams gut	Sly Adams cb
EC cb	3^{02} 339.16	3^{50} 338.68		
3/4	3^{45} 338.73	3^{82} 338.36		
1/2	3^{82} 338.36	4^{00} 338.18		
1/4	4^{02} 338.16	4^{27} 337.91		
3+10 wly Prop Alabama			4^{30} 337.88	3^{81} 338.37
3+00			4^{36} 337.82	3^{82} 338.36
$2+47^{76}$ Prop & cb BC on North	4^{09} 338.09	4^{54} 337.64	4^{31} 337.81	3^{94} 338.24
2+00	4^{60} 337.58	5^{03} 337.15	4^{79} 337.39	4^{30} 337.88

342^{18} ✓

					Profile	Lt = West	℄	Rt = East
0+97						8.6 / 10 (316.9)	8.0 (316.7)	9.4 / 10 (316.1)
TP3	0.22	325.52 ✓	12.23	325.30 ✓		π	325.52 ✓	
0+64						2.6 / 10 (335.6)	2.3 (335.9)	2.1 / 10 (336.1)
TP2	2.39	338.23 ✓	6.34	335.84 ✓		π	338.23 ✓	
0+50						5.4 / 10 (336.8)	5.6 (336.6)	5.7 / 10 (336.5)
0+25						5.0 / 10 (337.2)	5.0 (337.2)	5.0 / 10 (337.2)
0+02 R2 Lt.E 12" tel Pole					±55' 93.89 H		4.86 Sat (337.22)	4.45 Cs (337.23)
0+00 N cb Line Adams								
0-36 ℄ crown							3.88 (338.10)	
0-72.7 ℄ 24x2 grate							5.25 grate (336.93)	
							342.18 ✓	

2+80	5.5 Lt ℄ 12" Tree			
2+60	℄ crosses 18" Eucalapetus			
2+55				
TP4	0.35	289.43 ✓	13.15	289.08 ✓
2+47	3.5 Rt ℄	20" Eucalapetus tree		
2+40				
2+05				
TP5	2.49	302.23 ✓	13.25	299.74 ✓
TP4	0.11	312.99 ✓	12.64	312.88 ✓
1+75				
1+50				
1+25				

Lt = West ℄ Rt = East

276.5 284.5 270.6
12.9 / 17 5.0 +1.2 / 10

286.0 282.8 284.2 287.8 288.0
3.4 / 10 6.6 / 3 5.3 1.8 / 7 1.4 / 10

289.43 ✓

289.2 288.2 285.6 288.4
13.0 / 10 13.3 16.6 / 6 13.0 / 10

294.2 294.0 294.2
8.0 / 10 8.2 8.0 / 10

302.23 ✓

307.5 308.5 309.4
18.0 / 10 17.0 16.1 / 10

310.5 310.2 311.1
15.0 / 10 15.2 14.4 / 10

312.3 312.2 313.6
13.2 / 10 12.6 11.9 / 10

325.52 ✓

Lt = West & Rt = East

BM starting			10.82	329.12 ✓	329.09 ✓
TP_{12}	0.86	339.94 ✓	3.49	339.08 ✓	
TP_{11}	10.50	342.57 ✓	1.95	332.07 ✓	
TP_{10}	11.48	334.02 ✓	0.48	322.54 ✓	
TP_9	10.16	323.02 ✓	0.48	312.86 ✓	
TP_8	12.00	313.34 ✓	0.25	301.34 ✓	
TP_7	13.01	302.09 ✓	0.35	289.08 ✓	
3+00					
3+80					
3+64					
3+40					
3+16					
2+88 45' Lt & 10" Eucalyptus tree					

Reduced By Lochhead 4-22-52

2643	2738	2792						
25.1	15.6	10.2						
10		10						
2662	2752	2801						
23.2	14.2	9.3						
10		10						
2684	2742	2785						
21.0	16.2	10.2						
10		10						
2704	2749	2797						
19.0	14.5	9.7						
10		10						
2751	2768	2832						
14.3	10.5	3.7						
10		10						

T 289.43 ✓

0+89		1.7	343.1
0+70		3.2	341.6
0+63		7.3	337.5
0+54		7.0	337.8
0+49.72	℄ grate inlet Nly Adams	8.01 grate	336.78
0+24.5		6.37	338.42
0+12.3	paving at water Main	6.63	338.16
B Line 0+00	Sly grate Adams Ave	7.86 grate	336.93
BM	5.74	344.79 ✓	339.05 T.P. page 1

1+85	27.5	317.3
1+50	18.8	326.0
1+00	14.4	330.4
	π 344.79	

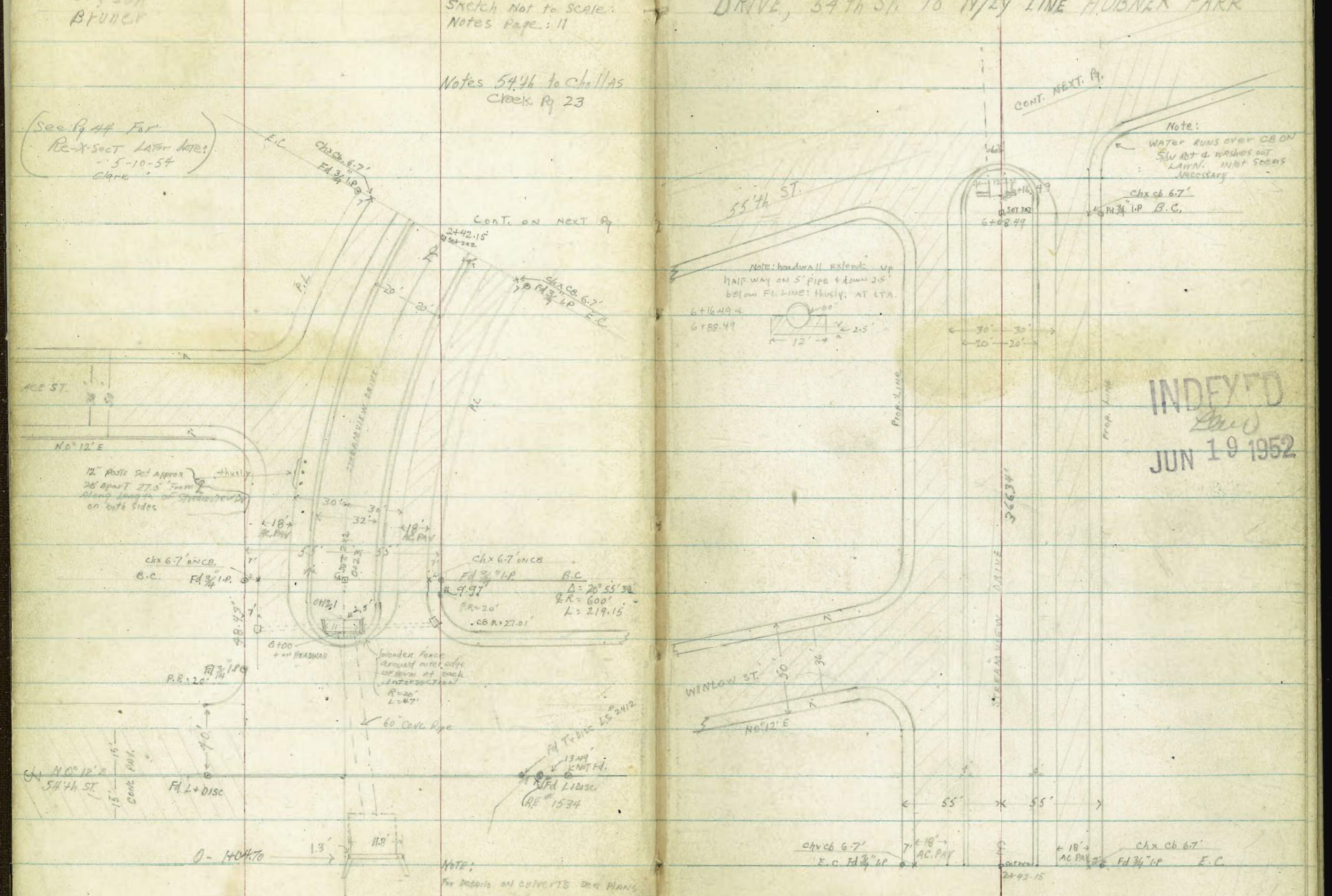
Clark 6-12-52
Shephard W.O. 32.197
Bryson
Bruner

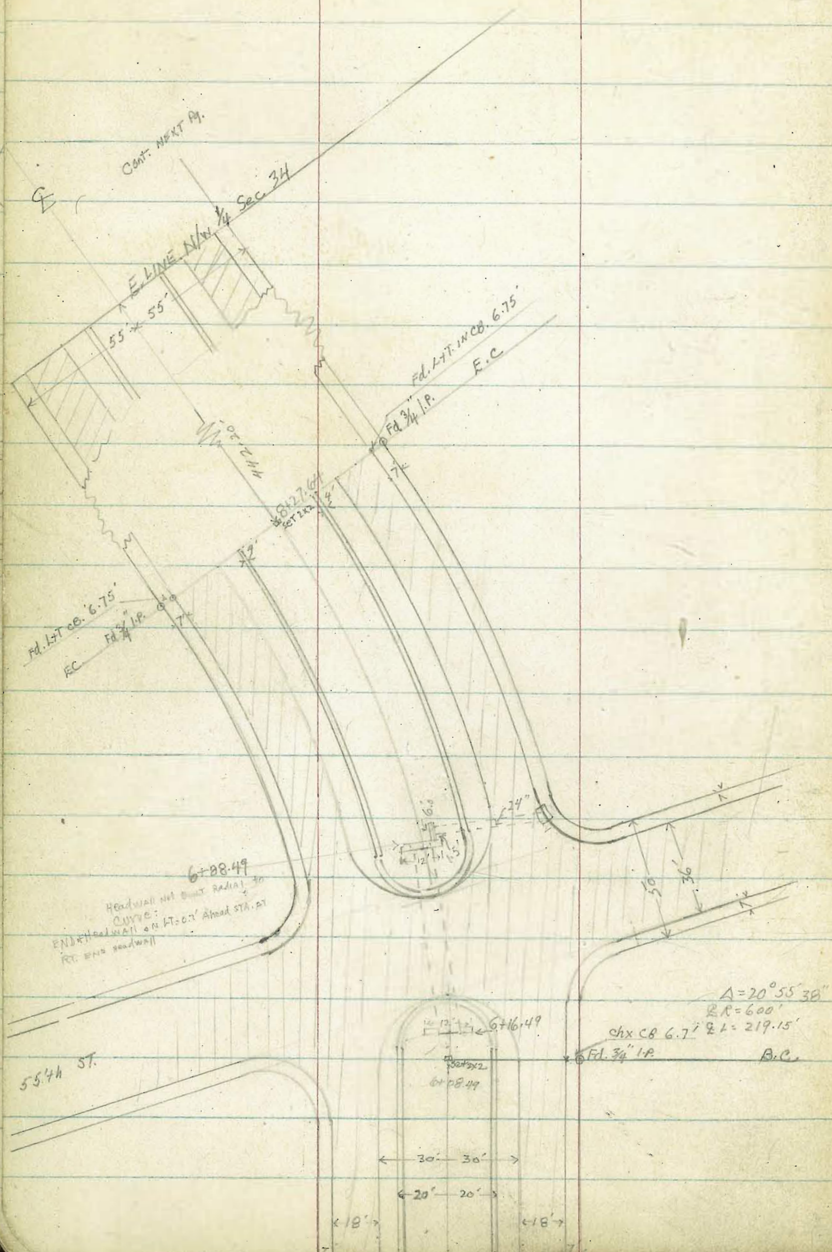
Sketch Not to SCALE:
Notes Page: 11

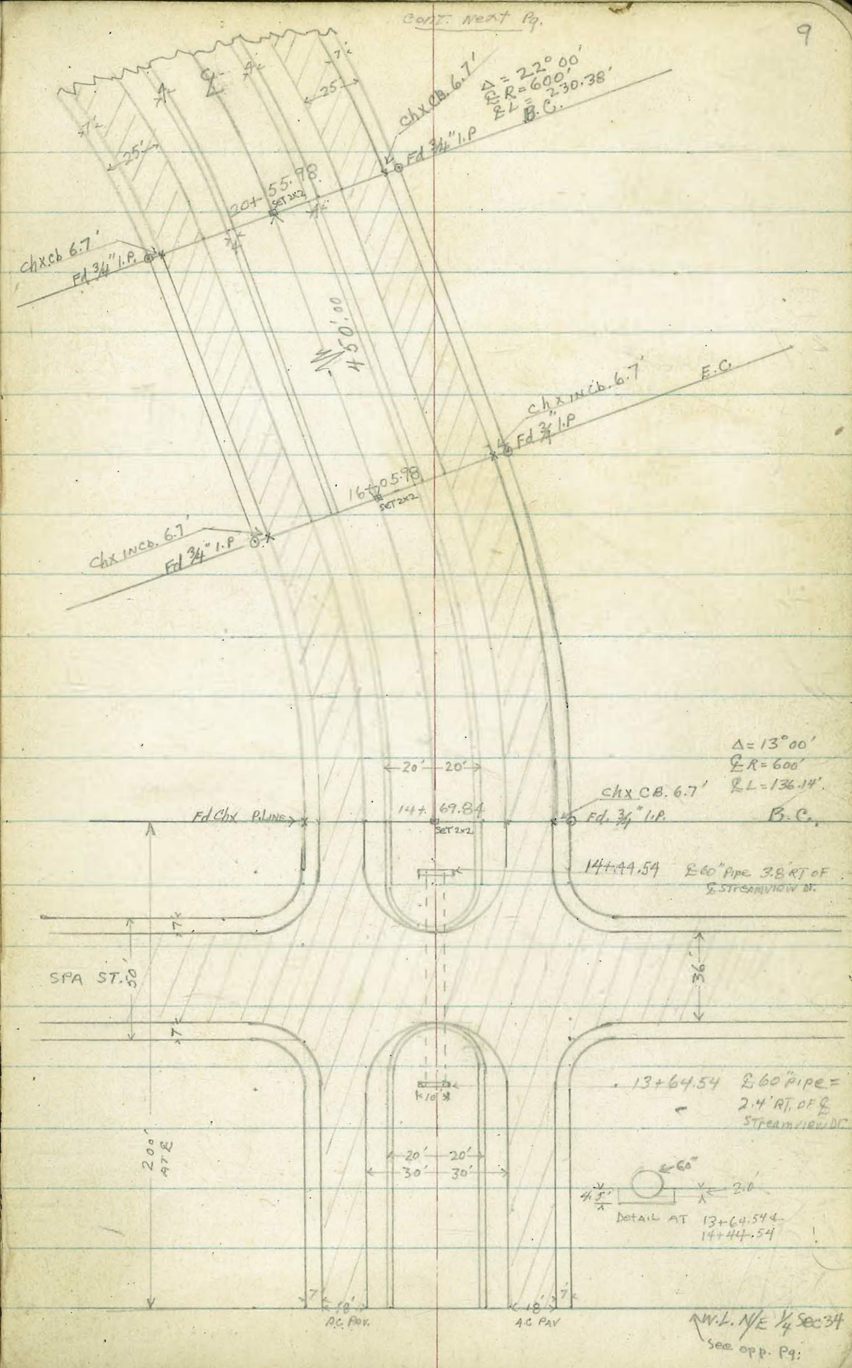
Notes 54th to Chillas Creek Pg 23

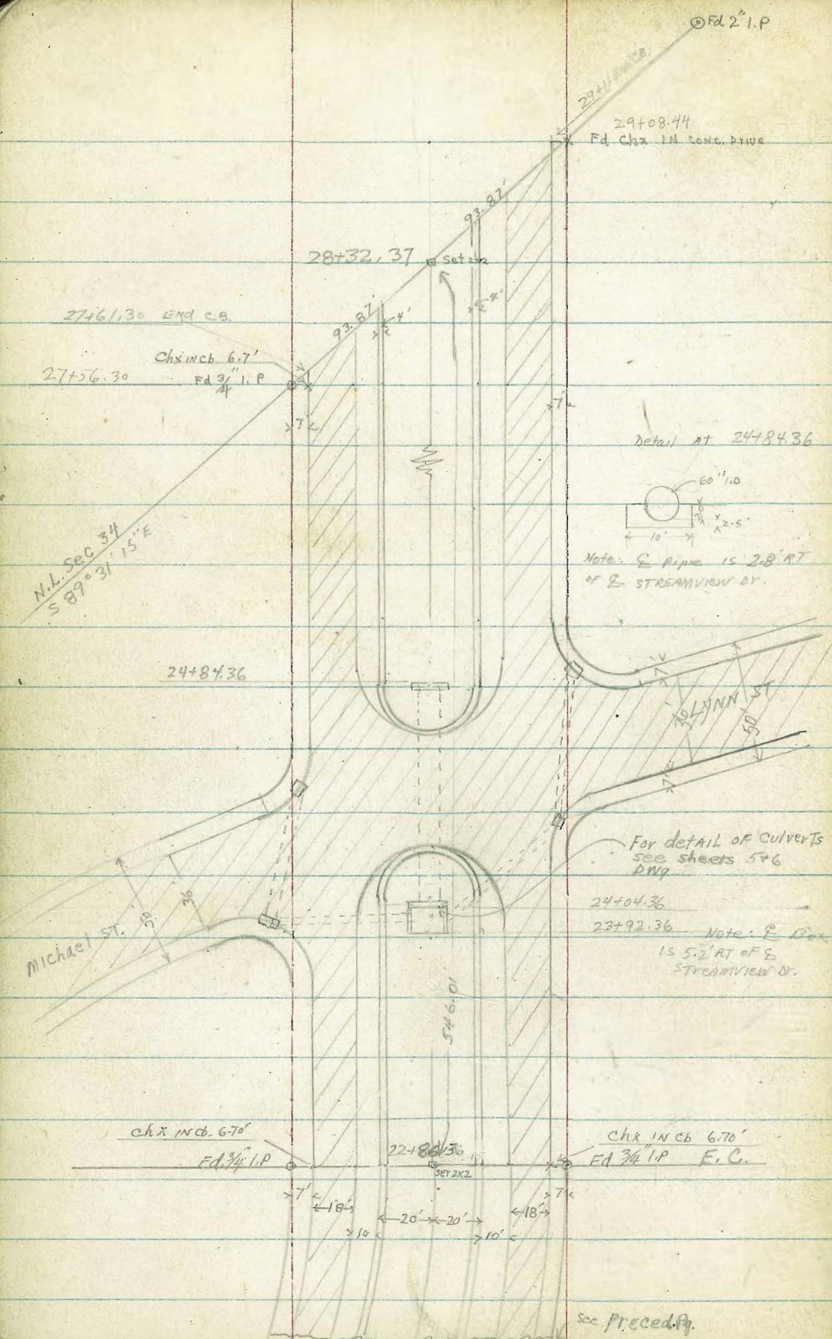
(See Pg 44 For Re-X-Sect LATER Note: - 5-10-54 Clark.)

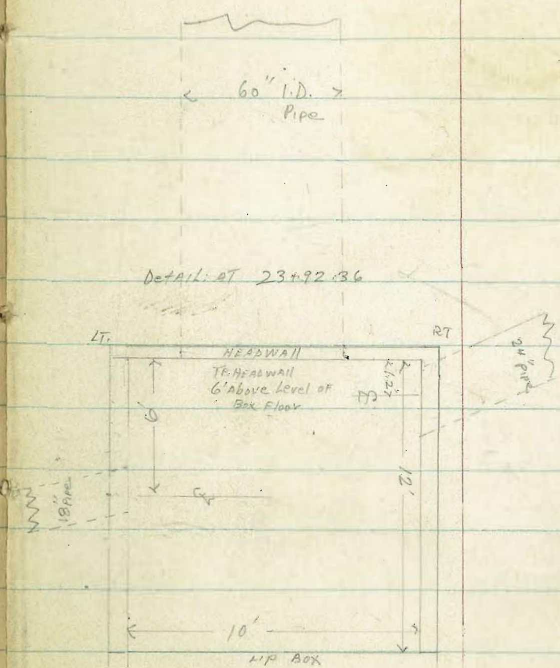
SURVEY - STORM DRAIN & STREAMVIEW DRIVE, 54th ST. to N/LY LINE HUBNER PARK




Cont. NEXT Pg.
E. LINE N/W 1/4 Sec. 34
55' 55'
Fd. LT. IN CB. 6.75'
Fd 3/4" I.P.
E.C.
Fd. LT CB. 6.75'
Fd 3/4" I.P.
E.C.
6+88.49
6+16.49
6+08.49
chx CB 6.7'
Fd. 3/4" I.P.
Δ = 20°55'38"
℄ R = 600'
℄ L = 219.15'
B.C.
55th ST.
30' 30'
20' 20'
18' 18'
50
36


Cont. Next Pg.
Δ = 22°00'
℄ R = 600'
℄ L = 230.38'
B.C.
chx CB. 6.7'
Fd 3/4" I.P.
20+55.98
SET 2x2
chx cb 6.7'
Fd 3/4" I.P.
450.00
chx IN Cb. 6.7'
Fd 3/4" I.P.
E.C.
16+05.98
SET 2x2
chx IN Cb. 6.7'
Fd 3/4" I.P.
Δ = 13°00'
℄ R = 600'
℄ L = 136.14'
B.C.
chx CB. 6.7'
Fd. 3/4" I.P.
Fd Chx P. LINE
14+69.84
SET 2x2
20' 20'
14+44.54 ℄ 60" Pipe 3.8' RT OF ℄ STREAMVIEW DR.
SPA ST.
50'
36'
13+64.54 ℄ 60" Pipe = 2.4' RT. OF ℄ STREAMVIEW DR.
60"
Detail AT 13+64.54 & 14+44.54
20' 20'
30' 30'
200' AT ℄
18' 18'
A.C. Pav.
A.C. Pav.
W.L. N/E 1/4 Sec 34
See opp. Pg.


Fd 2" I.P
29+08.44
Fd Chx IN conc. Drive
93.87'
28+32.37
93.87'
27+61.30 End CB
Chx in Cb 6.7'
27+56.30
Fd 3/4" I.P
N.L. Sec 34
S 89°31'15"E
24+84.36
Detail at 24+84.36
60" I.D.
10'
Note: ℄ Pipe is 2.8' RT of ℄ Streamview Dr.
LYNN ST.
50'
For detail of culverts see sheets 5+6 Dwg
24+04.36
23+92.36
Note: ℄ Box is 5.2' RT of ℄ Streamview Dr.
Michael St.
50'
36'
Chx in Cb. 6.70'
Fd 3/4" I.P
22+84.36
Set 2x2
Chx in Cb 6.70'
Fd 3/4" I.P
E.C.
7'
18'
20'
20'
18'
7'
10'
10'
See Preced. Pg.


60" I.D.
Pipe
Detail at 23+92.36
LT.
RT
Headwall
Tp Headwall
6' above Level of Box Floor
6'
12'
10'
18" Pipe
24" Pipe
Top Box

Survey - Storm-Drain, STREAMVIEW Drive.

54th to N/ly LINE HUBNER PARK

Station	Description	LT.	℄	RT.
0+00	Tp. HEADWALL AT ℄	9.39 / 30 PAV (251.67); 9.18 / 25.5 Edge Pav on RET (257.88); 8.9 / 11 (258.16); 20.07 Flo. Line (246.99); 14.05 / 5.2 N. Edge TP. WALL (253.01); 19.95 / 0.95 ℄ Pipe Flow Line (247.11)	13.99 TP. Headwall (253.07)	20.03 Fl. Line (247.03); 14.01 / 2.5 S. Edge TP. WALL (253.05); 8.9 / 12 (258.16); 8.78 / 25.5 Edge PAV on RET (258.28); 8.95 / 30 PAV (258.11)
0-04	INlet N.E Return	15.57 Fl. Line (251.49); 10.77 G (256.29)	See Pg 12 For Fl. Line Elev AT Box	
0-06	INlet at S.E Return		See Pg. 12 For Fl. Line Elev of 18" Pipe At Box	17.49 Fl. Line (249.57); 9.49 G (257.57)
0-07	Edge of Berm at ℄	10.12 / 30 (256.94); 9.69 / 18.2 PAV. Edge on Curve (30' Rad. Ret) (257.37)	9.3 (257.76)	9.29 / 18.2 PAV. Edge on Curve 30' Rad. Ret (257.77); 9.4 / 30 (257.66)
0-13	Edge PAV AT ℄	10.16 / 30 PAV (256.90)	9.62 on PAV (257.44)	9.27 / 30 PAV (257.79)
0-1+04.71	7.2 Rt ℄ Flow line Box W. Side 54th			24.93 / 7.2 Flow Line (242.13)

For details on culverts + inlets, see plans, (CONST.)

Reduced By C. Barber 6-27-52

8.55	267.06	258.51 = B.P. N. END Island. E. side 54th + Streamview	267.06 ✓

1+50				
1+07.7	2" gas pipe 8H. to ℄ (radial)			
1+00				
0+50				
~~0+23 = B.C. ℄ Streamview Dr.~~				
T.P.	3.69	270.41	0.34	266.72
~~0+23 = B.C. ℄ Streamview Drive~~				
0+12.1	E. Edge Conc. Box			
0+06	2-18" Culverts enter Box			

LT. ℄ RT.

270.41

267.06

5+00				
4+50				
4+00				
3+63		2" gas Pipe At Lt to ℄		
3+50				
3+00				
2+50				
2+42.15 = E.C. ℄ Streamview Dr.				
T.P.	12.14	282.24	0.31	270.10
2+00				

LT. ℄ RT.

278.95 278.42 278.85 279.34 279.64 270.74 263.44 263.04 263.74 271.74 279.04 278.84 278.47 278.96
3.29 3.82 3.39 2.9 2.6 12.0 18.8 19.2 19. 10.5 3.2 3.40 3.77 3.28
48 48 30 20 17 5 5 5 5 16 30 48 48
T.CB G E.PAV. EPav G T.CB

277.48 276.96 277.42 277.84 278.04 268.74 261.74 261.24 261.34 268.64 277.74 277.64 277.32 276.92 277.38
4.76 5.28 4.82 4.4 4.2 13.5 20.5 21. 20.9 13.6 4.5 4.6 4.92 5.32 4.86
48 48 30 20 16 7 7. 4 4 17 20 30 48 48
T.CB G E PAV E.PAV. G T.CB

275.99 275.57 275.99 276.24 276.84 265.74 259.64 259.24 258.24 264.74 275.94 275.84 275.41 275.91
6.25 6.67 6.25 6.0 5.4 16.5 22.6 23.0 24. 18. 6.3 6.40 6.83 6.33
49 49 30 20 19 5 5 4 4 16 30 48 48
T.CB G E PAV. G T.CB
(Ret)

262.94
19.3
(None) 274.37 274.48 275.09 265.24 258.64 on Pipe 258.04 258.64 265.24 274.64 274.32 273.88
7.87 7.76 7.2 17.0 23.6 24.2 23.6 17.0 7.6 7.92 8.36 Drive
48 48 30 17 4.2 4.2 6 6 17 30 48 48
G E.PAV. E.PAV. G T.CB

272.49 272.38 272.97 273.04 273.44 264.24 257.24 257.04 257.54 264.24 272.84 272.84 272.34 272.87
9.35 9.86 9.27 9.2 8.8 18.0 25.0 25.2 24.7 18. 9.4 9.40 9.90 9.37
48 48 30 21 19 7 7 3 4 16 30 48 48
T.CB G. E PAV. E PAV G T.CB

271.38 270.89 271.40 271.64 272.24 255.24 255.24 255.44 271.44 271.19 270.84 271.32
10.86 11.35 10.84 10.6 10.0 27.0 27.0 26.8 10.8 11.05 11.40 10.92
48 48 30 20 18 3. 6 18 30 48 48
T.CB G E.PAV E. PAV. G T.CB

271.16 270.69 271.12 271.34 271.84 255.54 255.04 255.24 271.24 271.00 270.52 271.60
11.08 11.55 11.12 10.9 10.4 26.7 27.2 27.0 11.0 11.24 11.66 11.24
48 48 30 20 18 1.0 6 18 30 48 48
T.CB G E.PAV. E.PAV. G TPCB

282.24

269.43 268.92 269.43 269.71 270.38 254.21 253.61 253.81 269.31 269.34 268.98 269.47
0.98 1.49 0.98 0.7 0.3 16.2 16.8 16.6 1.1 1.07 1.43 0.94
48 48 30 20 17 7 4 18 30 48 48
TPCB G E.PAV E.PAV. G T.CB

270.41

Sta.	+	H.I.	−	Elev.	Description	LT.	℄	RT.
6+80					Edge Berm - ℄	284.71 5.47 30 PAV.; 284.88 5.30 19 Edge PAV. (Ret)	285.68 4.5	284.79 5.39 19 Edge PAV (Ret); 284.83 5.35 30 PAV
T.P.	8.34	290.18	6.06	281.84 =Elev TBM			290.18 ✓	
6+75					Edge PAV. at ℄ (E/Ly CB Line 55th +3')	284.30 3.60 30 PAV	284.68 3.22	284.64 3.26 30 PAV
6+35					Edge PAV. at ℄ (W/Ly CB. Line 55th)	283.02 4.88 30	283.69 4.21	283.24 4.66 30 PAV.
6+30					Edge Berm at ℄	283.00 4.90 30 PAV; 283.25 4.65 16.5 Edge PAV; 284.05 3.8 10	284.90 3.5; 284.20 3.7 10	283.40 4.50 16.5 Edge PAV; 283.15 4.75 30 PAV
6+16.49					60" Pipe & Headwall	271.32 16.58 5.5 Bott. Headwall; 276.92 11.48 5.5 TP. Headwall	279.19 8.71 TP. Pipe; 273.77 14.13 Fl. Line (℄ Pipe 0.50 RT of ℄ St. Drive)	276.31 11.59 6.5 TP. H.wall; 271.42 16.48 6.5 Bott. Headwall ✕
6+08.49					= BC ℄ Streamview Dr.	282.35 5.55 48 PAV G.; 282.47 5.43 30; 283.20 4.7 17; 274.30 12.6 3; 268.30 19.6 3	268.10 19.8; 270.50 17.4 6.0; 278.90 9.0 6.0	282.80 5.1 16; 282.44 5.46 30 E.PAV.; 281.86 6.04 48 G; 282.38 5.52 48 T.CB
6+00						No CB. ~~6.00~~ 48 T.CB; 281.90 6.00 48 G PAV; 282.20 5.70 30 E.PAV; 283.00 4.9 18; 272.90 15.0 3.0; 267.30 20.6 3.0	266.70 21.2; 269.80 18.1 9.0; 275.90 12.0 9.	282.90 5.0 16; 282.10 5.80 30 E.PAV; 281.52 6.38 G; 282.03 5.87 48 T.CB
T.P.	6.06	287.90	0.40	281.84			287.90	
5+50						280.52 1.72 48 T.CB; 280.00 2.24 48 G; 280.43 1.81 30 E.PAV; 280.94 1.3 20; 281.24 1.0 17; 272.34 9.9 6; 264.34 17.9 6	264.44 17.8; 264.94 17.3 5; 271.94 10.3 5	280.74 1.5 16; 280.74 1.5 21; 280.42 1.82 30 E.PAV.; 280.06 2.18 48 G; 280.52 1.72 48 T.CB
							282.24	

			LT.	℄	RT.
T.P.	7.14 296.64	0.68 289.50		296.64 ✓	
8+50			wrong [illegible] (9) 288.04 (circled) 2.14/48 T.CB; 288.54 1.64/48 G; 288.99 1.19/30 E.PAV.; 289.38 0.80/19	280.68 9.5/11; 280.58 9.6; 280.78 9.4/4	289.98 0.3/15; 289.78 0.4/20; 289.18 1.0/21; 289.00 1.18/30; 288.53 1.65/48 G Drive
8+27.64	=E.C. & Streamview Dr.		288.64 1.54/48 T.CB; 288.14 2.04/48 G; 288.55 1.63/30 E.PAV; 288.78 1.4/17	280.68 9.5/11; 280.18 10.0; 280.48 9.7/3	289.48 0.7/15; 289.38 0.8/20; 288.88 1.3/21; 288.58 1.60/30 E.PAV.; 288.13 2.05/48 G; 288.62 1.56/48 T.CB
8+00			287.95 2.23/48 T.CB; 287.43 2.75/48 G; 287.91 2.27/30 E.PAV.; 288.18 2.0/17	279.88 10.3/12; 279.68 10.5; 279.98 10.2/2	288.88 1.3/14; 288.78 1.4/20; 288.18 2.0/21; 287.91 2.27/30 E.PAV.; 287.49 2.69/48 G; 287.97 2.21/48 T.CB
7+50			286.59 3.59/48 T.CB; 286.06 4.12/48 G; 286.61 3.57/30 E.PAV; 287.08 3.1/17	279.18 11.0/11; 278.98 11.2; 279.98 10.2/2	287.48 2.7/15; 286.48 3.7/20; 286.98 3.2/21; 286.58 3.60/30 Edge PAV.; 286.07 4.11/48 G; 286.56 3.62/48 T.CB
7+00			285.33 4.85/30 PAV; 285.33 4.85/28 E.PAV; 285.68 4.5/20; 286.08 4.1/19; 286.08 4.1/16	278.78 11.4/10; 278.78 11.4; 278.78 11.4/5	286.08 4.1/14; 285.88 4.3/20; 285.48 4.7/21; 285.20 4.98/28.4 Edge PAV; 285.18 5.00/30 PAV.
6+96	Inlet At S/E Ret	(55th & Streamview Dr)			281.15 9.03 Fl. Line; 284.49 5.69 Gutter
6+90	3' RT to 24" pipe From S/E Return			277.09 13.09/3 Flo. Line	279.85 10.33/3 TP. Headwall; 276.68 13.5/3 Base Headwall
6+88.49	End 60" Pipe AT ℄		285.02 5.16/30 PAV.; 285.18 5.00/26 Edge PAV; 285.48 4.7/17; 285.68 4.5/14; 278.78 11.4/10; 279.30 10.88/6 TP. Headwall; 274.38 15.80 Bott.	282.25 7.93 TP. Pipe; 276.83 13.35 Fl. Line Pipe; 290.18	279.30 10.88/6 TP. Head Wall; 274.38 15.80 Bottom [illegible]; 285.78 4.4/16; 285.28 4.9/21; 285.05 5.13/27.7 Edge PAV.; 285.04 5.14/30 PAV

LT. | RT.

12+00

12+50

12+00

11+50

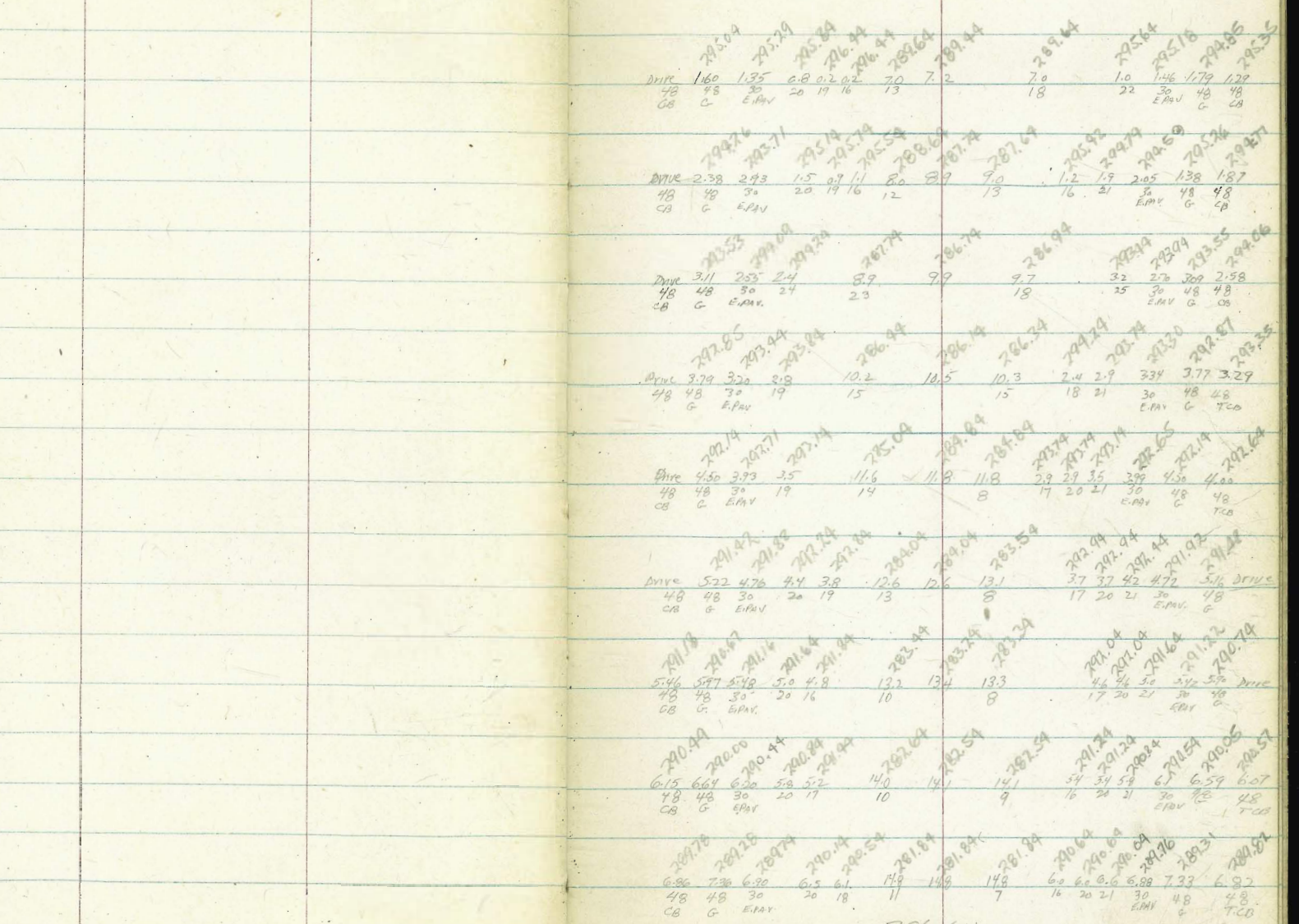
11+00

10+50

10+00

9+50

9+00



296.64

14+44.54	3.8' RT + ℄ 60" pipe			
14+28.84	Edge Berm at ℄			
T.P. 8.47	304.87		6.78	296.40
14+22.84	Edge PAV. (Ret) E.CB. Line SPA.			
13+86.84	Edge PAV. (Ret). W.CB. Line SPA.			
13+77.7	Edge Berm			
13+64.54	2.4' RT Beg ℄ 60" Pipe & headwall			
T.P. 6.78	303.18		0.24	296.40
13+50				

LT. ℄ RT.

297.77 298.77 298.67 298.07 290.87 291.45 291.48 289.13 291.42 291.57 298.62 298.62 297.86
7.10 6.1 6.0 6.8 14.0 13.44 13.44 15.74 13.45 13.3 6.2 6.2 7.02
30 21 16 12 8 1.1 TP Head wall | 3.8 Fl. Line Pipe | 8.8 TP. Head wall | 15 19 21 30 E.PAV.

297.51 297.71 298.37 297.74 297.53
7.36 7.10 6.5 7.13 7.34
30 PAV | 18 E.Pav. | | 18 Edge PAV | 30 PAV

304.87

297.44 297.94 297.47
5.74 5.24 5.71
30 PAV. | E. PAV. | 30 PAV

296.73 297.15 296.83
6.45 6.03 6.35
30 PAV. | E. PAV. | 30 PAV.

296.58 296.68 297.58 297.48 297.18 297.38 297.58 296.98 296.78 296.64
6.60 6.50 5.6 5.7 6.0 5.8 5.6 6.2 6.40 6.49
30 PAV | 23 E.PAV | 15 | 10 | | 10.2 | 17 | 18 | 23 Edge PAV | 30 PAV

296.48 296.78 297.38 297.18 290.38 289.86 287.66 289.97 297.38 297.38 296.88 296.58
6.70 6.4 5.8 6.0 12.8 13.30 15.5 13.21 5.8 5.8 6.3 6.60
28.9 E.PAV | 19 | 17 | 12.6 | 5 | 2.4 TP. Head wall | 2.4' RT. Fl. Line Pipe | 7.4 TP. Head wall | 15 | 17 | 21 | 28.9 E. PAV

303.18

296.17 295.77 296.31 296.69 297.14 297.14 290.64 289.84 290.74 297.24 296.94 296.11 295.63 296.12
0.47 0.87 0.33 0.0 +0.5 +0.5 6.0 6.8 6.4 +0.6 0.2 0.53 1.01 0.52
48 CB | 48 G | 30 E.PAV | 30 | 19 | 15 | 13 | | 13 | 17 | 21 | 30 E.PAV. | 48 G | 48 CB

296.64

18+00

17+50

T.P. 9.92 313.45 1.34 303.53

17+00

16+50

16+05.98 = E.C. ℄ Streamview Dr.

15+50

15+00

14+69.84 = BC ℄ Streamview Dr.

LT. ℄ RT.

296.52 296.63 296.40 296.65 297.35 296.45 297.65 297.45 297.75 296.95 296.49 296.17 296.57
6.93 7.42 7.05 6.8 6.1 7.0 15.8 15.8 16.0 5.7 6.5 6.96 7.29 6.88
48 48 30 20 18 10 1 18 19 22 30 48 48

305.61 305.14 305.19 305.45 306.25 304.75 296.75 296.75 296.45 306.45 305.75 305.17 304.81 305.78
7.84 8.34 8.26 8.0 7.2 8.7 16.7 16.7 17.0 7.0 7.7 8.38 8.64 8.17
48 48 30 20 19 10 2 12 18 21 30 48 48

313.45

304.07 303.59 303.94 304.27 305.67 303.97 296.17 295.97 296.37 305.07 304.57 303.97 303.54 303.99
0.80 1.28 0.93 0.6 +0.20 0.9 8.7 8.9 8.5 +0.2 0.5 0.96 1.33 0.88
48 48 30 20 19 10 6 11 17 21 30 48 48

302.74 302.27 302.66 303.17 303.69 303.61 295.47 294.87 303.67 303.97 302.67 302.29 302.78
2.83 2.60 2.21 1.7 1.2 1.2 9.4 10.0 1.10 1.9 2.20 2.58 2.09
48 48 30 20 19 9 12 17 21 30 48 48
TCB G E.PAV. E.PAV. G T.CB

301.52 301.36 301.63 301.97 302.57 300.87 299.57 299.47 299.07 302.97 302.17 301.65 301.24 301.72
3.35 3.61 3.24 2.9 2.3 4.0 10.3 10.4 10.8 1.9 2.7 3.22 3.63 3.15
48 48 30 21 19 11 2 12 16 21 30 48 48

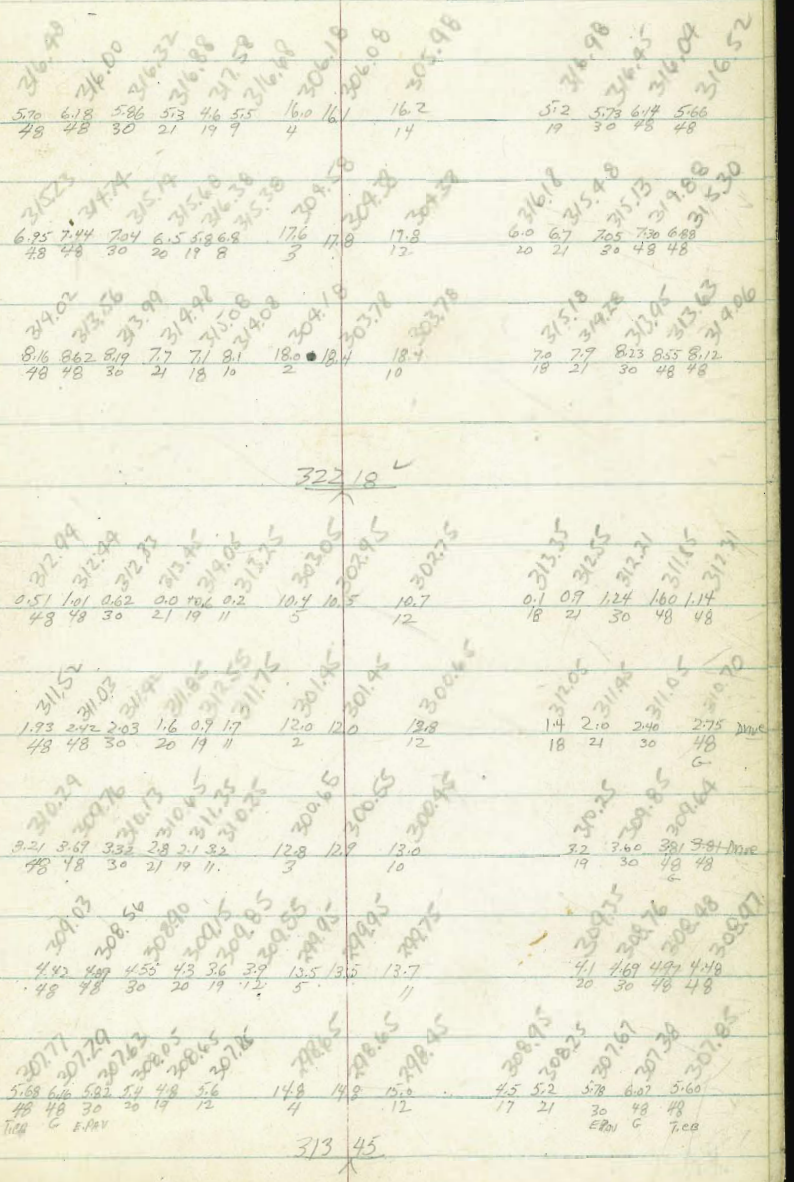
306.35 299.91 300.30 300.57 301.77 300.27 297.67 297.77 297.67 301.67 300.37 300.74 299.82 300.31
4.52 4.96 4.67 4.3 3.6 3.6 12.2 12.1 11.2 3.2 4.1 4.61 5.05 4.56
48 48 30 20 15 11 6 12 16 20 30 48 48

299.06 298.60 298.87 299.37 300.39 297.07 291.97 292.97 300.37 299.47 299.09 298.55 299.01
5.82 6.27 6.00 5.5 4.5 13.8 12.9 11.9 4.5 5.4 5.93 6.32 5.86
48 48 30 21.14 7 10 18 21 30 48 48
CB

298.05 298.21 298.67 299.37 299.37 297.17 297.57 297.27 299.37 298.67 298.23 297.85 298.33
6.82 6.66 6.2 5.5 5.5 13.7 12.3 12.6 5.5 6.2 6.64 7.01 6.54
48 48 30 21 20 15 14 13 19 21 30 48 48
T.CB G E.PAV. E.PAV. G CB

304.87

22+00				
21+50				
21+00				
T.P.	8.78	322.18	0.05	313.40
20+53.98 =	BC & Streamview Dr.			
20+00				
19+50				
19+00				
18+50				



24+04.36	Headwall Box			
24+03.36	℄ 24" pipe From S/W Ret			
23+98.36	℄ 18" pipe From N/W Ret			
23+92.36	Lip Box 5.2' RT. of ℄ Stream. Dr.			
23+86	Inlet at N/W Ret. Michael + Streamview Dr			
T.P.	6.60	327.82	0.96	321.22
23+50				
23+00				
22+86.36 = E.C. ℄ Streamview Dr.				
22+50				

LT. ℄ RT.

312.86 312.87 312.82
14.96 Bottom Box = Fl. Line; 14.95 Fl. Line; 15.00 Fl. Line
8.96 - 318.86 TP. Wall; 8.95 5.2 ℄ Box TP. 318.82; 9.00 - 318.82 10.2 TP. Wall

312.90
14.92 10.2 Fl. Line

312.98

321.33 321.82 322.42 322.62 321.12 311.72 315.11 309.72 313.01 315.11 310.72 313.01 322.42 321.45
1.49/30 E.Pav 6.0/20 5.4/18 5.2/15 6.7/10 16.1/2 12.21 TP Wing Wall 16.1 Dirt (14.81) Lip 14.81/5.2 ℄ Lip 12.71/10.2 TP Wing Wall 17.1 10.2 Dirt 14.81/10.2 Lip 5.4/19 6.37/30 E.Pav

314.23 320.65
13.59 Fl. Line 7.17 G.

327.82

2.00/48 2.43/48 2.04/30 1.4/21 0.7/19 1.1/11 12.4/7 12.6 12.8/11 0.5/20 1.4/22 1.89/30 2.24/48 1.75/48

319.00 318.51 318.83 319.28 320.18 319.58 308.98 308.58 319.48 318.99 318.62 319.12
3.18/48 3.67/48 3.35/30 2.7/21 2.0/19 2.6/11 13.2/2 13.3 13.6/20 2.7/20 3.19/30 3.56/48 3.06/48

318.62 319.14 318.47 319.08 319.88 319.18 308.68 308.58 308.38 318.51 318.26 318.76
3.56/48 4.04/48 3.71/30 3.1/22 2.3/20 3.0/11 13.5/2 13.6 13.8/20 3.2/21 3.59/30 3.92/48 3.42/48

317.74 317.28 317.58 318.08 318.78 318.28 307.88 307.78 307.68 318.98 318.18 317.66 317.31
4.42/48 T.W. 4.90/48 G 4.60/30 E.Pav. 4.1/21 3.4/20 3.9/11 14.3/2 14.4 14.5/12 3.2/16 3.3/19 4.0/21 4.52/30 4.87/48 G 4.39/48 TPCB

322.18

Station	Description				LT.	℄	RT.
25+50					9.93/48 (325.22), 10.4/48 (324.75), 9.95/30 (325.20), 9.7/20 (32?.95), 8.8/15 (326.35), 18.2/13 (316.95)	18.0 (317.15)	18.0/8 (317.15), 8.5/17 (326.65), 9.1/20 (326.05), 9.70/30 E.PAV (325.45), 10.15/48 G (325.00), 9.62/48 T.CB (325.53)
25+00					11.15/48 T.CB (324.00), 11.67/48 G. (323.48), 11.22/30 (323.93), 11.0/21 (324.15), 10.2/16 (324.95), 18.6/12 (316.55)	18.6 (316.55)	19.6/15 (315.55), 9.7/17 (325.45), 10.62/30 E.PAV. (324.53)
T.P.	8.27	335.15	0.94	326.88		335.15 ✓	
24+90	CB inlet at S/E Ret.						12.91 CB. INLET Fl. LINE ([illegible]), 4.26 G ([illegible])
24+84.36	End 60" Pipe & headwall	℄ 2.8' RT ℄ Stream Dr.			4.30/30 E.PAV (323.52), 4.1/21 (323.72), 3.5/16 (324.32), 3.2/14 (324.62), 10.0/8.5 (317.82), 10.53/2.2 TP. WALL (317.29)	12.15 (315.67)	12.69/2.8 Fl. LINE Pipe (DIRT SAME) (315.13), 10.60/7.6 TP. WALL (317.22), 11.2/11 (316.62), 3.2/20 (324.62), 3.60/30 E.PAV (324.22)
24+73	Edge Fill (EAST INT)				4.60/25 E.PAV (323.22), 3.5/13 (324.32)	3.4 (324.42)	3.0/17 (324.82), 3.79/25 E.PAV (324.03)
24+62	Edge PAV. (EAST) Intersect.				4.85/30 PAV (322.97)	4.30 (323.52)	4.24/30 PAV (323.58)
24+41.4	CB. Inlet at N/E Ret.				6.?? G, 12.95 Fl. Line		
24+33.8	CB. Inlet AT S/W Ret.						14.14 CB. Inlet Flo Line, 6.21 G
24+25.5	Edge PAV. (Ret at Intersect. (WEST) Streamview & Michael) HNN &				5.70/30 PAV (322.12)	5.55 (322.27)	5.60/30 PAV (322.22)
24+11	Edge Fill (WEST INT)				6.12/25.5 E.PAV (321.70), 5.9/17 (321.92), 5.2/14 (322.62)	5.4 (322.42)	4.7/13 (323.12), 5.5/11 (322.32), 5.88/25.5 E.PAV (321.94)
						327.82	

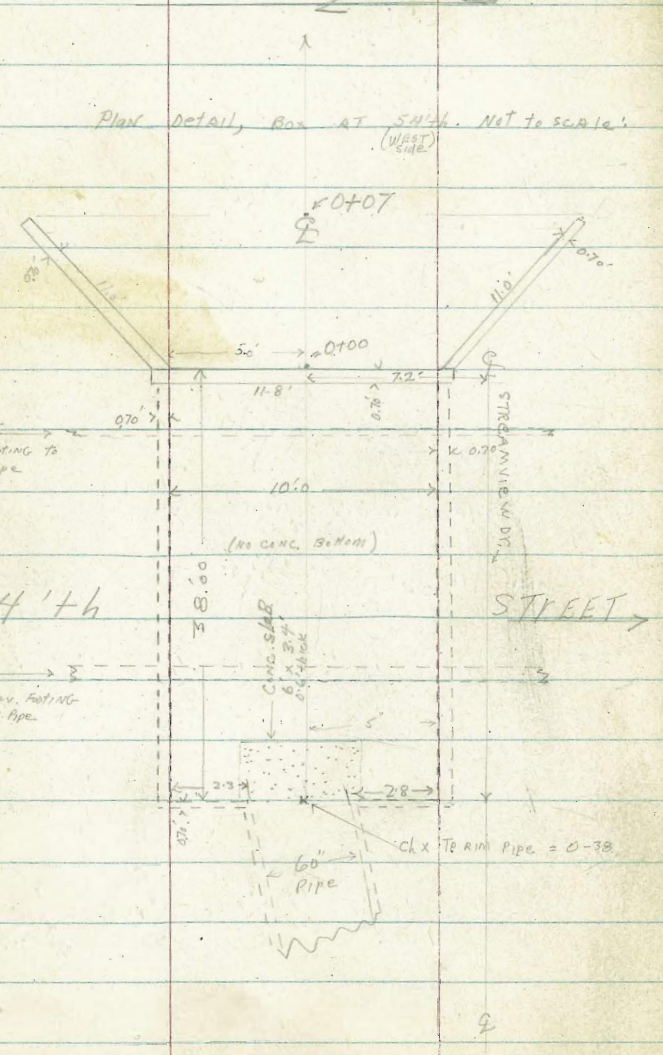
				LT.	RT.
	Check 0.84	334.31 = 334.36 (City DATA)	CB END RT. DWG {8250-L / 8249-L}		
30+00	Section taken with Proj. of Streamview & AS alignments			4.0 3.9 6.9 7.2 / 6.8 6.0 +1.5	
29+11	END CB RT. + END PAV 30' RT.			1.7 4.5 4.5 10.0 10.9 / 4.0 / 0.3 1.0 1.04 1.33 0.84	
29+00				2.0 4.3 4.4 10.0 10.8 / 10.0 / 4.5 7.2 1.34 1.60 1.09	
28+50				3.5 4.3 10.2 10.5 / 10.7 / 1.0 2.48 2.72 2.40	
28+32.32	N'ly Line Kubler Pl. at E. Streamview Dr.			4.1 3.9 11.2 11.3 / 11.0 / 2.0 2.8 2.96 3.31	
28+00				4.7 3.3 2.6 3.5 10.2 12.4 / 12.5 / 3.7 3.5 3.75 4.06 3.59	
27+84	END PAV 30' LT.				
27+61.30	END CB ON LT.			4.77 5.25 4.74 4.4 3.6 3.8 9.2 13.0 / 13.5 / 3.5 4.2 4.36 5.06 4.62	
27+50				5.00 3.44 3.02 4.8 4.1 3.8 9.3 14.1 / 12.5 / 3.9 4.6 4.76 5.38 4.81	
27+00				6.08 6.36 6.33 5.9 5.0 5.1 16.0 16.2 / 15 / 4.6 4.4 5.5 6.12 6.32 6.06	
26+50				7.94 7.50 7.1 5.9 16.0 16.3 / 16.5 / 6.2 6.2 6.9 7.40 7.81 7.31	
26+00				8.73 9.21 8.75 8.4 7.5 15.5 16.7 - / 17.0 / 8.1 8.66 8.97 Drive	
				T.CB G E.PAV.	E.PAV. G T.CB

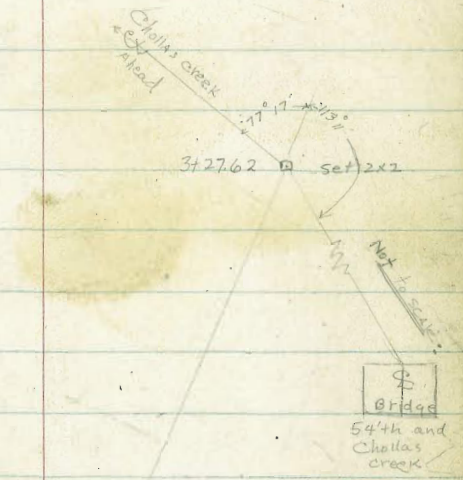
335.15

Clark 7-9-52 SURVEY 54th & STREAMVIEW Dr. to
Shephard W.O. 32197
Bruner
Bryson Challas Creek, Proposed DRAIN

See Pgs 8 & 11 For DATA & Levels For STREAMVIEW Drive, EAST

Notes: Pg. 24





Set 2x2 @ 0+11 = ℄ RT 49° 30' : Deflection

0+60 (See detail opp. Pg.)

SURVEY 5446 & STREAMVIEW DRIVE

to CHOLLAS CREEK ; Proposed DRAIN

Reduced by R. Barber 11-28-52

		LT.	℄	RT.
0+50		260.33 +11.8 56 TP BANK	241.73 6.8 33 Toe Vertical BANK	241.83 6.7 —	249.03 4.5 15 Toe BANK	257.53 +9.0 42 TP BANK
0+28	22' LT ℄ M.H.	248.00 +0.37 22 TP M.H. Rim		
0+11	Sect ⊥ to Forward tang	258.23 +9.7 42 TP BANK	249.33 +0.8 18	242.93 5.6 3	242.88 5.7 —
0+11	∠ RT Def = 49° 30' (Sect RT ⊥ to BACK TANG)	258.53 +10.0 25 TP BANK	242.83 5.7 3	242.83 5.7 —	243.23 5.3 9	249.63 +1.1 25
0+07	OPP. END'S WINGWALLS	258.73 +10.2 25 TP BANK	252.53 +4.0 12 TP WINGWALL	248.53 0.00 12	247.14 5.4 3	243.14 5.4 —	243.33 5.2 8	249.73 3.8 12	252.53 +4.0 12 TP WINGWALL	252.33 +5.0 25
0+00		258.09 +9.56 5 TP HEADWALL	256.05 +7.52 5 overhead	242.12 6.91 5 FOOTING	242.93 5.6 — DIRT	242.03 6.40 5 Footing	256.06 +7.53 5 overhead	258.11 +9.58 5 TP HEEDWALL
0-34.6		243.90 4.63 5/26		
0-58		256.09 +7.56 5 elev. overhead	242.13 6.40 5 TP Footing	249.17 4.36 — Flo. Line Pipe	242.14 6.39 5 TP FOOTING	256.11 +7.58 5 overhead
T.P.	0.62	248.53 ✓	11.38	247.91 ✓				248.53 ✓
B.M.	0.78	259.29 ✓	258.51 = B.P. N END Island, E. side 5446 + Streamview					

		Check:	1.02	258.50	= 258.51
T.P.	8.19	259.52	0.17	251.33	
T.P.	12:06	251.50	0.56	239.44	
		(Sect. along ℄ Chollas)			
3+27.62	=	Approx ℄ Chollas (see sketch Pg 23)			
3+00					
2+50		Enters Chollas Creek (Approx.) on R.T. (East)			
T.P.	3.14	240.00 ✓	11.67	236.86 ✓	
2+00					
1+50					
1+00					
0+63		13' RT. ℄ DEADMAN			

B.P. N. END Island, ESide 544± STREAMVIEW

	LT.	℄	RT.
	229.1 / 10.7 / 150	231.2 / 8.8 / 100	232.1 / 7.9 / 50
	231.9 / 8.1	232.20 / 7.8 / 40	
3+00	229.00 / 1.0 / 45 Top	229.60 / 5.4 / 40 Toe S. BANK Chollas	230.00 / 6.0 / 20
	234.20 / 5.8	234.90 / 5.1 / 30	
2+50	234.40 / 1.6 / 30	235.8 / 4.2 / 10	235.00 / 5.0
	236.60 / 3.4 / 15	242.90 / +2.9 / 23	
	240.00 ✓		
2+00	242.63 / 5.9 / 20 Top	235.93 / 13.1 / 6 Toe	236.53 / 12.0
	236.53 / 12.0 / 10 Toe	246.03 / 2.5 / 20 Top	
1+50	252.03 / +2.5 / 30 Top	238.63 / 9.9 / 17 Toe	237.23 / 11.3
	242.03 / 6.5 / 15	250.53 / +2.0 / 40 TP BANK	
1+00	255.53 / +7.0 / 45	240.28 / 8.3 / 40 TOE Vert. BANK	239.13 / 9.4
	240.43 / 8.1 / 10 Toe	247.73 / 0.8 / 25	253.53 / +5.0 / 50 TP BANK
	248.53 ✓		

Additional notes for
Storm drain Adams Ave.
between Florida & Alabama.

CHS
Bogg
Olkman
Johns

9-17-52
W.O. 20982

See page 1 - this book

For gutters & curbs.

These notes are on pavement
from Ely line Florida to Wly. line
Alabama as per. sketch by. O.R.L.

0+00 = Ely line Florida
℄ Adams = Base line

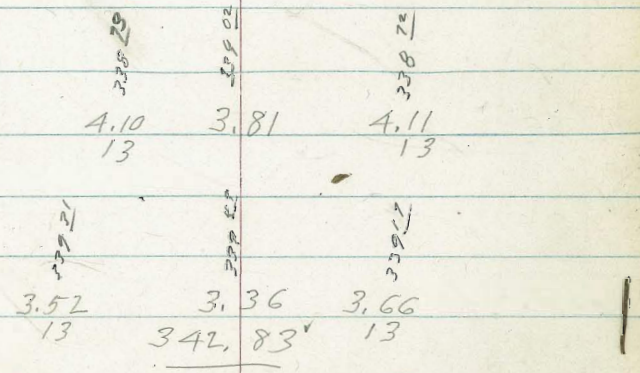
0+50

0+00

	3.88	342.83 ✓	4.20	338.95 ✓
T.P.	5.73	343.15 ✓	1.35	337.42 ✓
	9.68	338.77 ✓	—	329.09

S.E. 7'L+T. Florida + Adams

S.E. B.P. Florida + Madison



Adams

2+46.7C (26'Lt. = ob. B.C. - Page #1)

T.R.	4.89	343.22 ✓	4.50	338.33 ✓
2+00				
1+70				
1+60				
1+50				
1+00				

℄

338.26	338.47	338.22
4.96	4.75	4.90
13		13

343.22 ✓

337.89	338.32	338.13
4.94	4.51	4.70
13		13
337.68	338.26	338.11
4.95	4.47	4.72
13		13
337.82	338.21	338.15
4.91	4.42	4.73
13		13
338.04	338.16	338.05
4.79	4.37	4.68
13		13
338.01	338.22	338.03
4.42	4.10	4.40
13		13

342.83 ✓

Adams

Reduced By CPL 9-26-52

26' Rt. ℄ = 3+10 P.S.

Check top of ch.	4.84	+ .01	338.38 ✓
3+10 = Wly. Alabama.			
3+00			

338.37 - Page 3

338.99	338.82	338.52	
4.23 / 13	4.40	4.70 / 13	
338.90	338.72	338.90	
4.32 / 13	4.43	4.74 / 13	

343.22 ✓

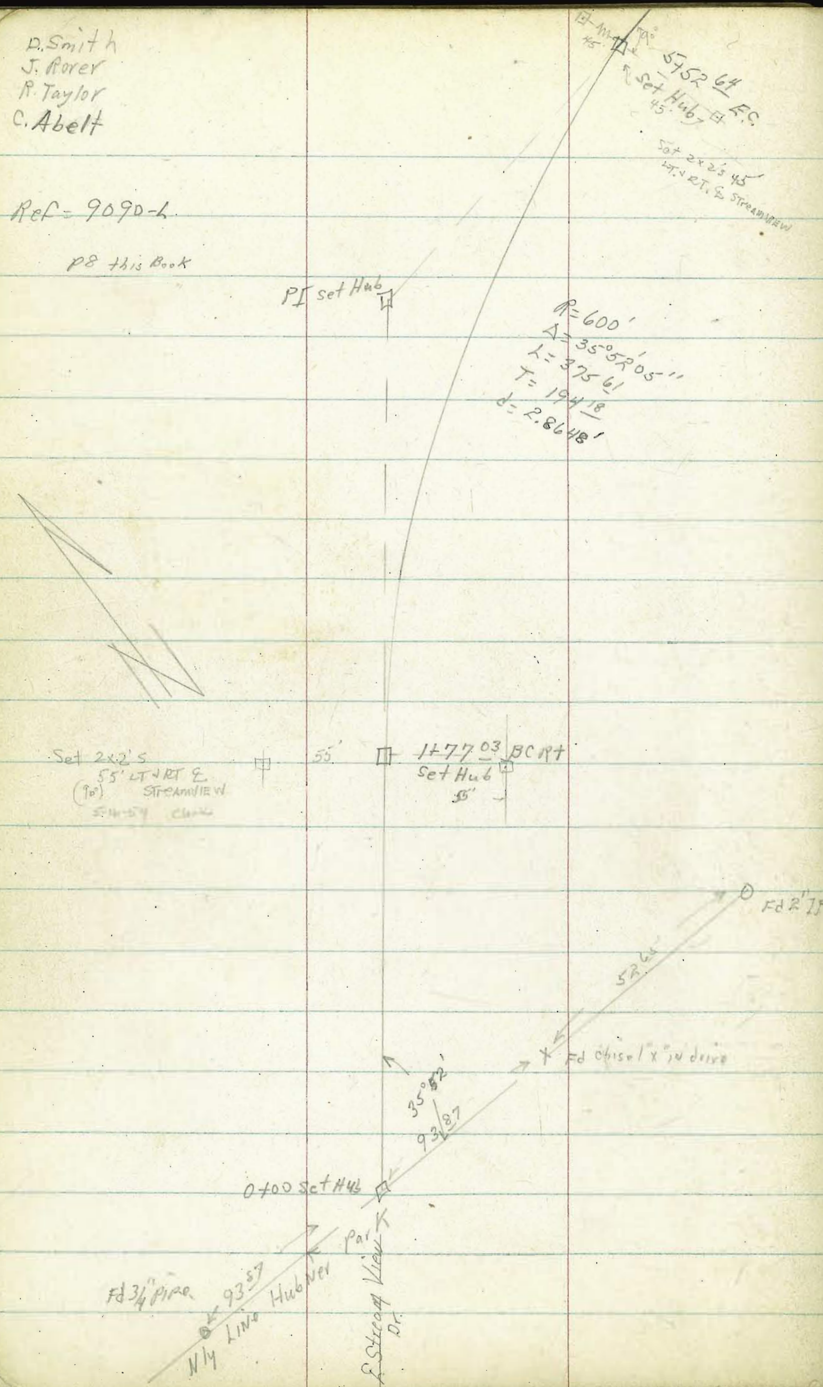
D. Smith
J. Rorer
R. Taylor
C. Abelt

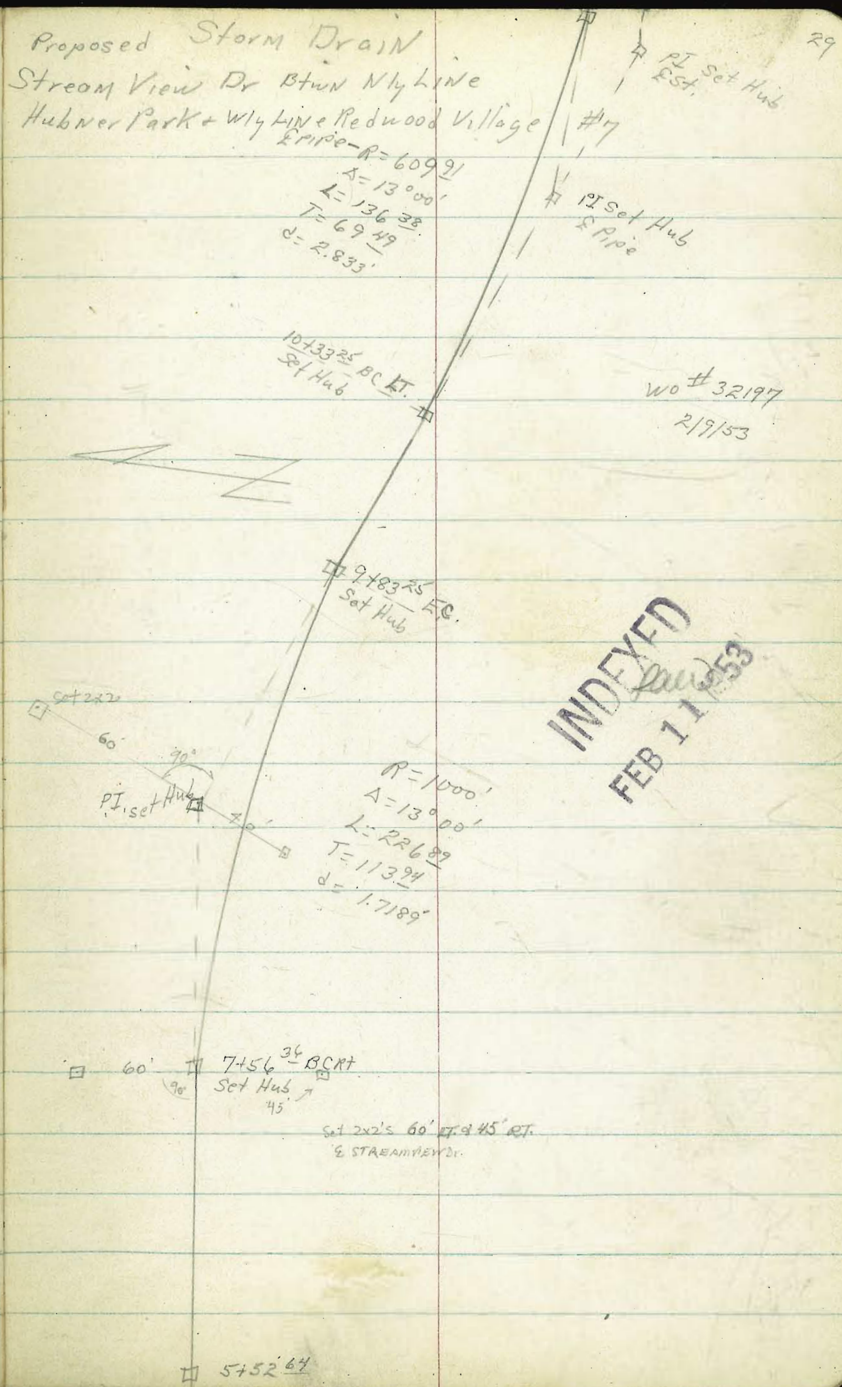
Ref = 9090-L
P8 this Book

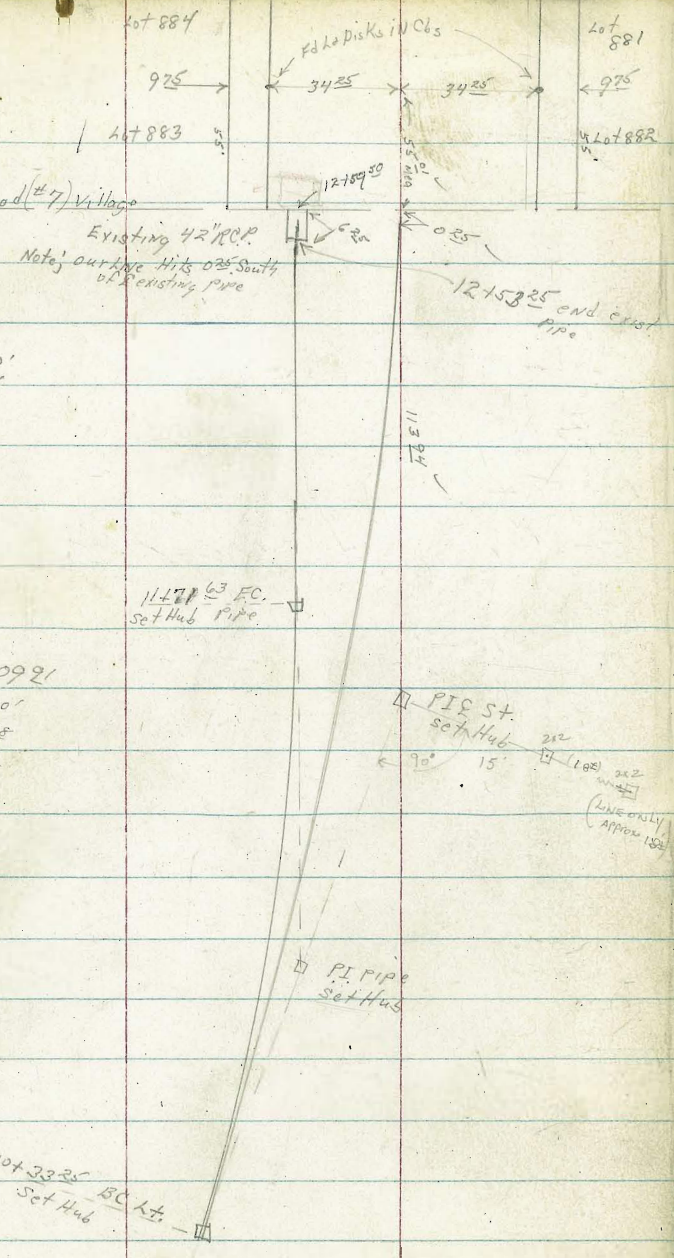
Proposed Storm Drain
Stream View Dr Btwn Nly Line
Hubner Park + Wly Line Redwood Village

#7

WO # 32197
2/9/53







Δ = 13°00'
℄ St R = 1000'
L = 226.89
T = 113.94
d = 1.7189'

℄ Pipe R = 609.21
Δ = 13°00'
L = 13?.38
T = 69.49
d = 2.83'

Lt = North ℄ Rt = South

1+50
332.1 331.2 331.12 327.32 327.12 325.72 328.22 336.12 335.7
5.6 9.4 9.6 11.0 8.5 0.6
55 26 20 11 9 25 40 55

1+25
331.3 333.1 330.12 327.02 325.32 326.52 335.82 335.0
6.6 9.7 11.4 10.2 0.8
55 35 20 11 10 30 55

Redoed by R. Barber, 2-11-53

1+00
334.6 334.1 330.8 330.22 325.92 325.92 324.52 325.92 334.62 334.6
6.5 10.8 10.8 12.2 10.8 2.1
55 45 28 20 9 2 5 20 55

0+75
334.3 333.7 332.7 330.52 325.92 325.32 323.82 325.22 334.22 334.2
6.2 11.3 11.4 12.9 11.5 2.5
55 40 35 20 10 2 2 20 55

0+50
333.4 330.82 325.62 324.92 323.92 333.82 ~~333.7~~
5.9 11.1 12.3 12.8 2.9
55 20 8 7 20 55

0+25
333.4 330.72 325.92 325.32 323.72 323.82 332.82 333.5
6.0 11.3 11.4 13.0 12.9 3.9
55 20 9 3 10 20 55

(55)

0+00 Nly Line Hubner Park
331.32 325.72 322.92 322.92 324.02 332.62
5.4 11.0 13.8 13.8 12.7 4.1
16 3 2 1 10 18

Note check end cb Rt. 2.47 334.35 -.05

TP1	9.48	336.72	0.11	327.24	
BM	12.22	327.35		315.13	247.84 26.28 Rt. of 60" pipe PRI

Lt = North ℄ Rt = South

3+25 7°03.99
331.2 331.13 331.23 332.13 333.83 335.93 337.6 341.0
8.4 8.3 7.4 5.7 3.6
55 20 10 10 20 38 55

3+20 30.5 Lt of SMH.

3+00 5°52.37'
330.7 329.93 330.53 329.63 330.23 330.83 331.53 333.03 335.3 340.5
9.5 9.0 9.2 9.3 8.7 8.0 6.5
55 20 10 8 7 10 20 32 55

2+75 4°40.75'
330.8 330.33 329.93 328.03 328.93 330.03 330.63 332.23 340.0
9.2 9.6 11.3 10.6 9.5 8.9 7.3
55 20 15 11 1 15 22 55

2+50 3°29.13'
331.4 330.33 330.23 329.93 329.13 327.93 329.43 331.03 330.7 340.7
9.2 9.3 10.1 10.4 11.6 10.1 8.5
55 20 10 6 10 12 20 28 55

2+25 2°17.51'
331.2 330.53 330.33 329.93 329.73 329.13 327.93 320.13 328.0 336.2
9.0 9.2 9.6 9.8 10.4 11.6 9.7
55 20 5 2 14 20 24 27 55

c = 25'

2+00 1°05.89'
330.83 330.83 328.93 327.53 328.13
8.7 8.7 10.6 12.0 11.4
20 7 20 27

c = 22.97

1+77.03 BC Rt
331.6 332.7 330.8 331.53 331.15 328.35 327.73 326.83 327.13 329.2 336.4
8.0 8.4 11.2 11.8 12.7 12.4
55 30 25 20 10 4 15 25 35 55

TP2	11.76	339.53	8.95	327.77	1+77.03 Hub

Lt = North Rt = South

5+00	15° 25.33'	343.9	337.6	335.0	336.7	336.03	336.03	336.63	336.93	337.63	342.4
		55	41	36	28	25	10	10	20	45	55
4+75	14° 13.71'	340.4	338.4	334.6	335.4	335.43	335.83	336.03	336.63	336.63	342.2
		55 45	38	27	20	10	35	10	20	42	55
4+50	13° 02.09'	340.8	334.0	335.53	335.03	335.43	337.13	334.53	336.2	338.9	341.2
		58	33	20	10	10	20	28	50	55	
4+25	11° 50.47'	337.0	334.9	333.3	333.53	334.93	334.63	334.73	333.93	334.13	336.43
		55	38	32	20	10	7	12	17	20	26
		336.4	333.2	333.1							
		53	45	24							
4+00	10° 38.86'	333.3	332.6	331.3	332.4	334.23	337.53	333.83	333.43	332.73	339.83	336.53	337.43
		55	46	42	35	20	10	5	7	12	15	20	
3+75	9° 27.23'	333.3	331.3	329.9	332.3	333.23	332.19	332.33	334.33	336.03	336.43		
		55	50	48	37	20	10	6	14	20	38	55	
3+50	8° 15.61'	331.4	330.9	329.7	331.1	332.03	332.13	332.83	335.83	336.93	340.2		
		55	42	39	34	20	10	10	20		55		

T 339.53

Lt = North Rt = South

7+00		344.45	344.55	344.95	344.85	344.25					
		48	42	43	45	50					
		20	10		20	20					
6+65		343.75	343.95	343.25	342.15	343.85					
		55	53	30	21	54					
		20	12		13	20					
6+30		343.35	342.65	345.45	344.75	345.45					
		62	61	38	45	38					
		20	10		10	20					
6+00		341.55	341.25	341.45	342.65	343.65	344.55	344.35			
		72	80	78	66	56	47	49			
		20	10	4	3		10	20			
		340.7									
		55									
		338.4									
		32									
		341.4									
		55									
5+70		340.45	340.05	340.55	343.05	343.75					
		86	92	87	53	55					
		20	10		7	20					
		340.5									
		55									
5+52.64 EC	17° 56.03'	338.95	338.55	338.95	338.75	341.85	340.05				
		103	102	108	105	74	72				
		20	10		3	5	20				
	c = 27.64										
5+25		337.55	337.45	337.35	338.05	341.15	341.25				
		112	118	112	81	80					
		20	10		7	14	20				

T 3 10 25 349 20

5+52.64 EC
Hub
1 03 338 50

Lt = North ℄ Rt = South

348.79 347.19 347.19 347.49 355.89
8+75 3°23.92' — 10^{8} 12^{4} 12^{4} 12^{1} 3^{7}
20 12 1 20

347.09 346.99 346.89 347.39 352.89
8+50 2°40.95' — 12^{5} 12^{6} 12^{7} 12^{2} 6^{7}
20 10 6 20

PI Hub
TP4 12^{55} — 359^{59} 2^{21} 347^{04}

346.55 346.35 346.85 346.85 348.35 347.35
8+25 1°57.98' — 2^{7} 2^{9} 2^{4} 2^{8} 0^{9} 0^{0}
20 10 8 12 20

345.75 346.15 346.15 345.85 347.15 346.35
8+00 1°57.01' — 3^{5} 3^{1} 3^{1} 3^{4} 2^{1} 2^{9}
20 10 10 12 20

C = 25^{00}

345.35 345.35 345.75 345.85 345.35
7+75 0°32.04' — 3^{9} 3^{9} 3^{5} 3^{4} 3^{9}
20 10 10 20

C = 18^{64}

345.05 345.45 345.45 346.65 345.05
7+56^{36} BC Rt — 4^{2} 3^{8} 3^{8} 3^{6} 4^{2}
20 10 10 20

344.55 344.85 345.05 345.05 344.65
7+25 — 4^{7} 4^{4} 4^{2} 4^{2} 4^{6}
20 10 10 20

T 349^{25}

Lt = North ℄ Rt = South

359.19 358.69 354.89 353.29 357.69 363.19
10+33^{25} BC Lt — 0^{4} 0^{9} 4^{7} 6^{3} 2^{9} $+3^{6}$
20 10 8 5 16

356.59 355.89 353.39 350.69 354.59 359.29 364.19
10+08^{25} — 3^{0} 3^{7} 6^{3} 8^{9} 5^{0} 0^{3} $+4^{6}$
20 9 2 4 10 20

E.C.
353.89 353.99 352.89 350.69 357.79 363.39
9+83^{25} 6°30' — 5^{7} 5^{6} 6^{7} 8^{9} 1^{8} $+3^{8}$
20 8 2 10 20

c = 8^{25}

353.49 353.49 352.59 350.39 354.99 361.19
9+75 6°05.80 — 6^{1} 6^{1} 7^{0} 9^{2} 4^{6} $+1^{6}$
20 7 2 8 20

351.49 351.39 347.39 351.29 354.89 360.09
9+50 5°22.83 — 8^{1} 8^{2} 12^{2} 8^{3} 4^{7} $+0^{5}$
20 6 3 10 20

350.79 350.49 347.49 346.29 347.89 351.19 354.39 359.29
9+25 4°49.86' — 8^{8} 9^{1} 12^{1} 13^{3} 11^{7} 8^{4} 5^{2} 0^{3}
20 9 8 4 2 10 20

349.19 349.09 347.39 347.39 348.09 351.39 352.29 357.99
9+00 4°06.89 — 10^{4} 10^{5} 12^{2} 12^{2} 11^{5} 8^{2} 7^{3} 1^{6}
20 13 10 3 5 9 20

π 359^{59}

Lt=North ℄ Rt=South

12+11
368.37 368.97 364.97 358.37 358.07 358.37 365.07 365.57 369.07
+0^{0} +0^{6} 3^{7} 10^{0} 10^{3} 10^{0} 3^{3} 2^{8} +0^{1}
20 17 7 5 4 6 10 20

12+07 10^{3} Rt ℄ SMH

E.C.
11+71^{63} 6° 30'
366.77 368.17 363.47 358.07 357.67 357.77 363.77 364.27
1^{6} 0^{2} 4^{2} 10^{3} 10^{7} 10^{6} 4^{6} 4^{1}
20 16 6 4 5 7 20

c=21^{63}

11+50 5° 28.8'
367.97 362.97 357.87 357.47 357.87 362.87 363.57 364.57
0^{4} 5^{4} 10^{5} 10^{9} 10^{5} 5^{5} 4^{8} 4^{0}
20 9 7 4 6 16 20

11+25 4° 19.3'
365.37 366.47 361.87 357.37 357.27 357.37 361.67 363.07 365.37
3^{0} 1^{9} 6^{5} 11^{0} 11^{1} 11^{0} 6^{7} 5^{3} 3^{0}
20 15 4 2 5 6 15 20

11+00 3° 08.8'
364.57 364.37 359.77 357.17 357.17 357.37 360.37 366.97
3^{8} 4^{0} 8^{6} 11^{2} 11^{2} 11^{0} 8^{1} 1^{4}
20 13 4 2 7 8 20

10+75 1° 58.3'
360.67 362.07 359.67 358.37 356.97 356.37 356.97 357.97 360.17 367.27
7^{7} 6^{3} 8^{7} 10^{0} 11^{4} 12^{0} 11^{4} 10^{4} 8^{2} 1^{1}
20 14 6 4 2 4 5 8 20

10+50 0° 47.60'
359.77 359.77 354.77 352.97 357.17 362.37 366.37
8^{6} 8^{6} 13^{6} 15^{4} 11^{2} 6^{0} 2^{0}
20 12 11 2 10 20

c=16^{25}

TP$_{5}$ 11^{39} 368^{37}✓ 2^{61} 356^{98}✓ PI Hub pipe

Lt=North ℄ Rt=South

BM starting 12^{11} 315^{10}✓ +0^{02}

TP$_{10}$ 0^{45} 327^{26}✓ 7^{61} 326^{81}✓

TP$_{9}$ 0^{21} 334^{42}✓ 8^{00} 334^{21}✓

TP$_{8}$ 1^{26} 342^{21}✓ 12^{97} 340^{95}✓

TP$_{7}$ 0^{16} 353^{92}✓ 12^{80} 353^{76}✓

TP$_{6}$ BM 0^{26} 366^{56}✓ 2^{07} 366^{30}✓ X on Fin SMH 12+07 10^{3} Rt

12+53^{25} 42" pipe end existing
365.97 366.17 359.57 357.69 358.37 366.07 367.07
2^{4} 2^{2} 8^{8} 10^{68} 10^{0} 2^{3} 1^{3}
20 8 6 0^{25} 4 7 20

π 368^{37}

Clark
Shephard
Bruner
O'Neil
8-3-53
W.O. 21138

X-SECT ALDINE (VAN DYKE) From B.C.
(N'ly ADAMS) 150' N'ly

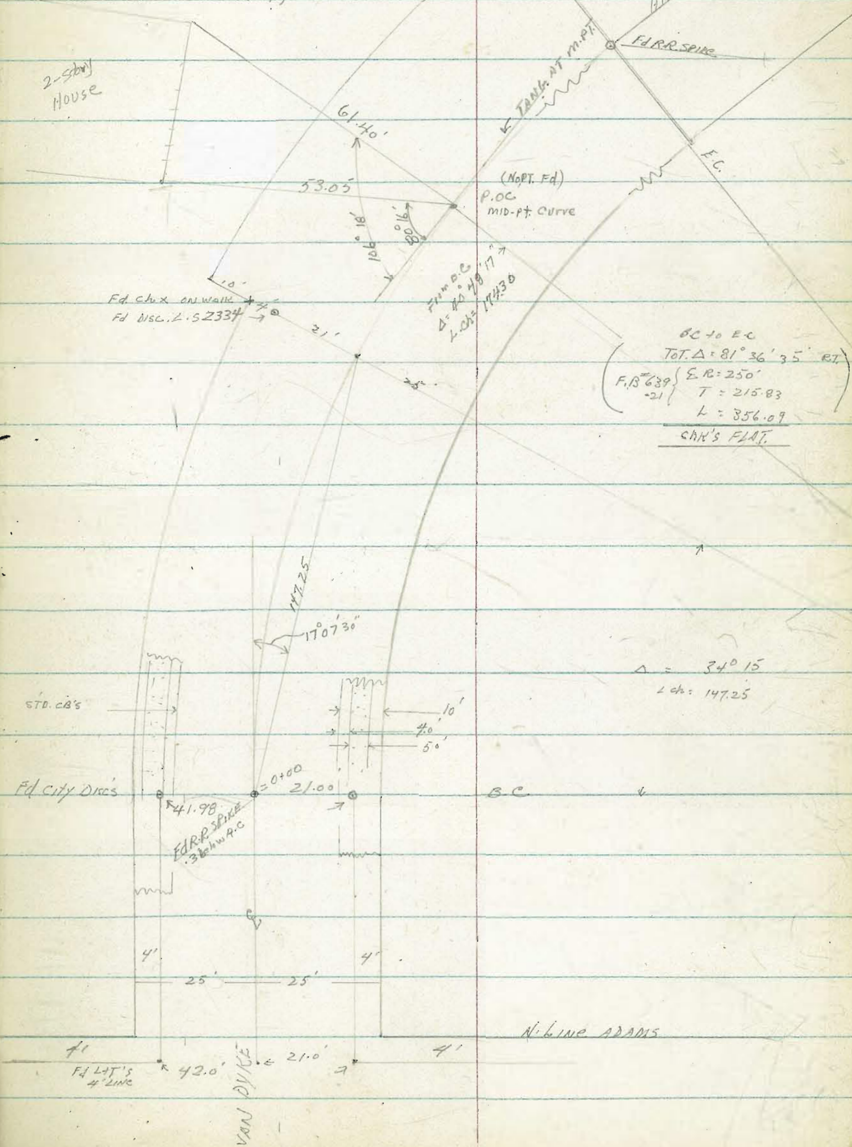
Ref: { Map #1869-2
Book 639
Tie-sheet 3590 }

Not to scale:
Notes, Pg 36

See notes For
STA. & CUT to C.B.
ENDS etc.

N

Note: Any proposed drain into
canyon should be beyond
House shown below.
(LAST House on LT.)



X-Sect. ALDINE Dr.

From B.C N'E'ly

Station	BS	HI	FS	Elev. / Notes	LT. (W'ly)	℄	RT. (E'ly)
1+00					2.40 / 23.9 B.W / 346.91; 2.54 / 14.8 CB / 346.77; 2.88 / 14.8 G (ON overlay) / 346.43; 3.16 / 11 Edge overlay / 346.15	2.97 / 346.34	3.72 / 15.1 G / 345.59; 3.24 / 15.1 CB / 346.07; 3.04 / 24.1 B.W / 346.27
T.P.	1.76	349.31	11.67	347.55		349.31	
0+96.70				14.8 LT Begin overlay Pav. At Gutt.	12.22 / 14.8 CB / 347.00; 12.82 / 14.8 G / 346.40		
0+75					10.60 / 23.8 B.W / 348.62; Drive 14.8; 11.42 / 14.8 G / 347.80	11.29 / 347.93	11.98 / 14.9 G / 347.24; 11.41 / 14.9 CB / 347.81; 10.99 / 24 B.W / 348.23
0+50					8.88 / 24 B.W / 350.34; 9.13 / 14.9 CB / 350.09; 9.76 / 14.9 G / 349.46	9.57 / 349.65	10.28 / 14.9 G / 348.94; 9.79 / 14.9 CB / 349.43; 9.44 / 23.9 B.W / 349.78
0+25				All-sections Radial & fall-outs	7.28 / 24 Bk walk / 351.94; Drive 15 CB; 8.10 / 15 Gut / 351.12	7.83 / 351.39	8.60 / 15 G / 350.62; 8.08 / 15 CB / 351.14; 7.80 / 24 Bk walk / 351.42
0+00 = B.C					5.67 / 24 Bk walk / 353.55; 5.88 / 15 CB / 353.34; 6.46 / 15 Gut / 352.76	6.22 / 353.00	7.01 / 15 G / 352.21; 6.49 / 15 CB / 352.73; 6.21 / 24 Bk walk / 353.01
0-50					3.35 / 24 Bk walk / 355.87; 3.50 / 15 CB / 355.72; 4.04 / 15 G / 355.18	3.79 / 355.43 (At Pav)	4.33 / G 15 / 354.89; 3.80 / TPCB 15 / 355.42; 3.66 / 24 Bk wk / 355.56
(0+00 = B.C. VanDyke + Aldine Dr)							
B.M.	0.80	359.22		358.42 = N.W. 4' LtTc. (Called 6' Tck F.B639-24) ADAMS + VANDYKE		359.22	
B.M.		(OUT)		357.44 = S.E. 6' CT BIONA + ADAMS			

ALDINE (CONT.)

Sta.	Notes
1+56	37.0' LT ℄ Single gar - (Con Drive Flush with Bk. Walk)
1+50	
1+44.5	20.8' RT Beg Con Ret Wall - 2' high here; 18' LT ℄ 14" Tree; 16.5 RT END Con. Drive
1+42	44.5 RT ℄ 2 car gar. (Not built RADIAL to st.)
T.P.	5.85 348.97 ✓ 6.19 343.12 ✓
1+31	18' LT ℄ 12" Tree
1+25	
	LT. St'd 1' Beyond CB END RT + 4.2' BK CB. R.
1+17	15.15 RT end CB Beg Con. Drive
1+14.5	17.2 LT ℄ 1' Palm
1+05.96	15.0 LT END CB (WALK CONTINUES)

LT. ℄ RT.

1+56 (LT): 341.72 / 7.25 / 36.9 / Fl. ; 343.37 / 5.63 / BK WALK (Brk) ; 343.27 / 5.70 / F. Walk

1+50 (LT): 343.71 / 5.26 / 25.4 / B.W ; 343.67 / 5.30 / 20.4 / F. walk ; 343.9 / 5.1 / 15 / DIRT ; 343.78 / 5.19 / 11.8 / BK overlay ; 343.74 / 5.23 / 6 / Edge AC / Beg. overlay
1+50 (℄): 343.71 / 5.26
1+50 (RT): 342.98 / 5.99 / 15 / Pav ; 342.88 / 6.09 / 16.3 / Fl. / Edge A.C ; 343.2 / 5.8 / 21.3 / At wall ; 344.5 / 4.5 / 25 / DIRT ; 344.6 / 4.4 / 35 / DIRT.

1+44.5 (RT): 343.21 / 5.76 / 16.5 / Edge AC & Con. Dr. ; 343.68 / 5.29 / 20.8 / Brk Dr ; 343.1 / 5.9 / 20.8 / F. walk ; 343.71 / 5.26 / 25 / on Drive

1+42 (RT): 343.76 / 5.21 / 44.5 / Fl. gar

T.P.: 348.97 ✓

1+25 (LT): 345.30 / 4.01 / 24.1 / B.W ; 345.25 / 4.06 / 19.1 / F.W ; 345.3 / 4.0 / 15 / DIRT. ; 345.51 / 3.80 / 13.7 / BK Edge overlay ; 345.06 / 4.25 / 3.7 / Edge overlay
1+25 (℄): 345.05 / 4.26
1+25 (RT): 344.35 / 4.96 / 15 / Edge A.C / Edge Con. Drive ; 344.43 / 4.88 / 15.5 / Brk Drive ; 344.40 / 4.91 / 25 / Drive

1+17 (LT): 345.75 / 3.56 / 24 / B. walk ; 345.75 / 3.56 / 19 / F. walk ; 345.82 / 3.49 / 15 / BK Edge overlay ; 345.40 / 3.91 / 4 / Edge overlay
1+17 (℄): 345.40 / 3.91
1+17 (RT): 344.66 / 4.65 / 15.15 / GUT ; 344.94 / 4.37 / 15.15 / CB ; 345.19 / 4.12 / 24.1 / B. walk (Walk Brks Down to Dr. (above))

1+05.96 (LT): 346.66 / 2.65 / 24 / B.W ; 346.45 / 2.86 / 15 / CB ; 346.37 / 2.94 / 15 / G overlay Pav ; 345.86 / 3.45 / 8.0 / Edge overlay
1+05.96 (℄): 346.06 / 3.25
1+05.96 (RT): 345.37 / 3.94 / 15.1 / G ; 345.85 / 3.46 / 15.1 / CB ; 346.15 / 3.16 / 24 / B.W

349.31 ✓

ALDINE Dr. (Cont.)

						LT.	℄	RT.
Chk:			0.80	358.43 = 358.42		(See B.M.)		
T.P.	11.20	359.23	0.94	348.03				
2+25						293.9 / 55.1 / 111 / Bott. Canyon; 306.2 / 43.0 / 70 / Brk; 313.6 / 35.4 / 50 / Brk; 320.1 / 28.9 / 35; 339.0 / 10.0 / 8 / TP Bank; 339.64 / 9.33 / 0.7 / Edge Pav; (Dirt Berm ends here at 2+25)	339.67 / 9.30	339.02 / 9.95 / 15 / Pav; 358.24 / 10.73 / 21 / Edge Pav
2+00				Note (About 45± of approx. TANG Pav here ahead)		341.2 / 7.8 / 10 / TP Bank; 341.4 / 7.6 / 8 / TP Berm; 341.0 / 8.0 / 6; 340.84 / 8.13 / 2 / Edge Pav	340.86 / 8.11	340.01 / 8.96 / 15 / Pav; 339.38 / 9.59 / 19.2 / Edge Pav
1+75						331.4 / 17.6 / 35 / (Not Bott. Canyon); 337.0 / 12.0 / 25; 342.3 / 6.7 / 16 / TP Bank; 342.8 / 6.2 / 10 / TP slight Dirt Berm; 342.4 / 6.6 / 9; 342.07 / 6.90 / 4.5 / Edge A.C.	342.19 / 6.78	341.41 / 7.56 / 15 / Pav; 341.14 / 7.83 / 17.7 / Edge Pav; 341.3 / 7.7 / 18 / Dirt; 341.6 / 7.4 / 25
1+70	8.0 LT Beg. slight Dirt Berm; 5.0 LT END Overlay Pav. (Level with A.C. here); 22 RT END Conc. Wall 2.5' high here							7.3 / 22 / Ftg Wall; 6.8 / 22 / Dirt
1+65	11.0' LT Beg loose rock-wall & ornamental shrubs							
1+63	21.8 LT END 5' Conc. Walk					342.83 / 6.14 / 27 / Bk Walk; 342.73 / 6.24 / 21.8 / F. Walk		

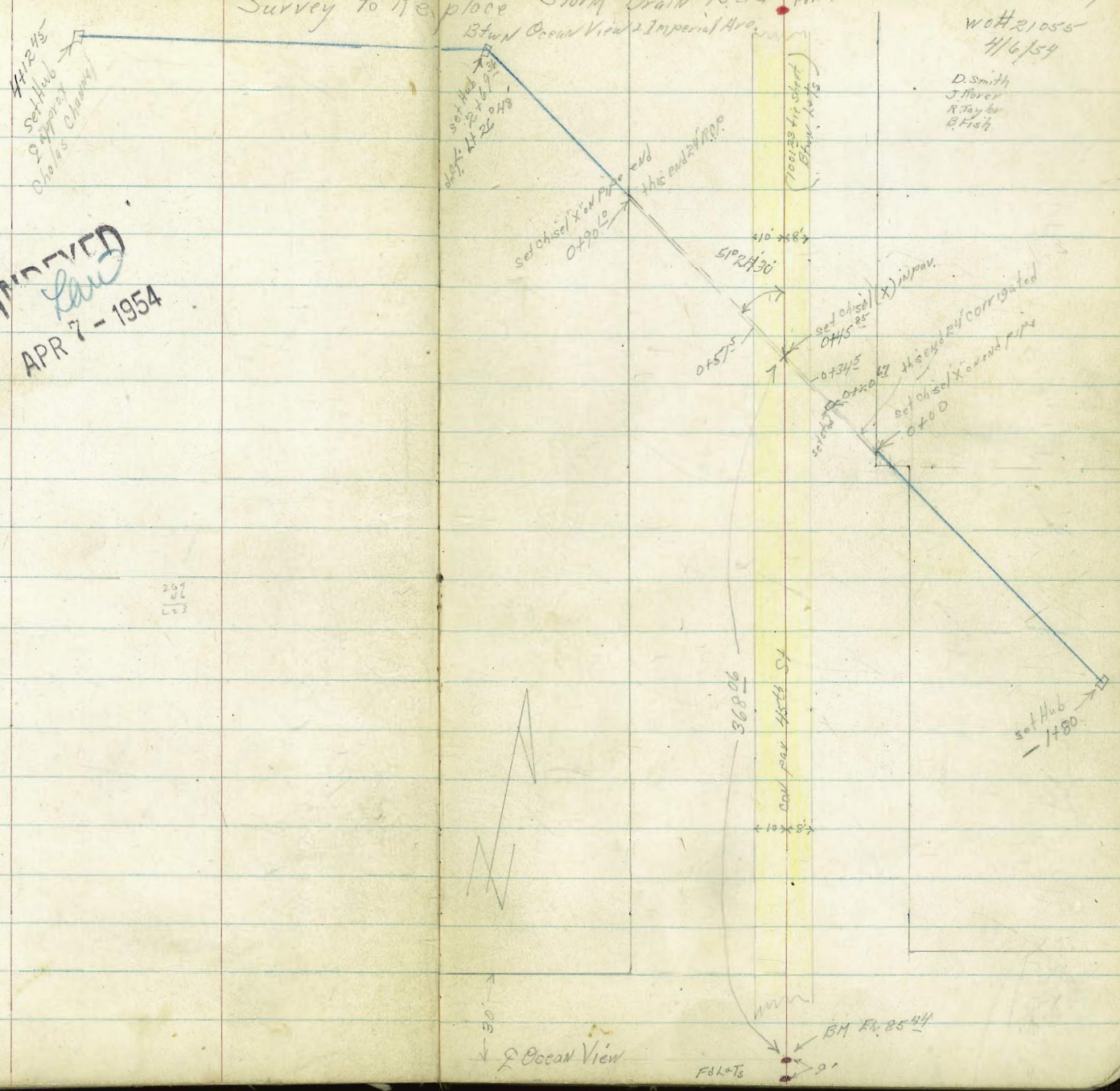
348.97

Survey to Replace Storm Drain 45"RCP

Between Ocean View & Imperial Ave.

W.O. H21055
4/6/54

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



RECEIVED
APR 7 - 1954

0700 Begin 24" Corrugated Pipe

-0725

-0750

-1700

-1740

-1753

-1780

TP, 2.82 75.48 13.04 72.66

BM 0.26 85.70 85.44 ℄ Lt to W. Ocean View 45th St.

Lt = SWly

Low Pt.

℄

Rt = NEly

65.7 61.8 60.18 64.5
9.8 13.7 15.30 11.0
10 2 16 14
24" corrugated

65.1 62.7 61.8 66.7
10.4 12.8 13.7 8.8
25 22 40

67.0 64.5 62.9 61.6 69.0
8.5 11.0 12.6 13.2 6.5
44 20 22 50

66.6 67.8 63.1 62.3 64.9 66.3
8.9 10.7 12.4 13.2 13.6 9.2
30 20 8 48 60

67.5 65.2 62.5 62.5 63.0
8.0 10.3 13.0 13.0 10.5
10 10 40 50

67.2 63.6 62.5 62.5 63.0
8.3 11.9 13.0 13.0 10.5
10 13 35 50

67.2 63.6 62.8 63.3 64.0
8.3 11.9 12.7 12.2 11.5
10 20 40 50

T 75.48

Lt = Swly ℄ Rt = NEly

1+20

0+90.10 end 24" RCP.

TP2 1.90 65.53 11.85 63.63

0+72

0+57.5 Wly par Rd.

0+45.85 ℄ Con Rad.

0+34.5 Ely Con Road

0+15

57.5 57.2 57.2 59.0
8.9 8.3 8.3 6.5
25 12 25

61.1 57.31 63.6
4.0 8.22 1.2
10 10 24" RCP 10

T 65.53

72.1 71.1 70.4
3.4 4.4 5.1
15 15

70.85
4 6.3

70.93
4 5.5

70.81
4 6.7

71.8 71.9 71.2
3.7 3.2 4.3
20 20

T 75.48

3+27

3+00

2+69^{36} ∠ Lt 26°48' on split

TP3 3^{29} 55^{58} 13^{24} 52^{29}

2+50

2+40

2+00

1+50

Lt = Swly ℄ Rt = NEly

50.7 45.6 45.0 50.9 50.3
4^{8} 10^{0} 10^{6} 4^{7} 5^{3}
21 13 8 15

54.0 51.3 47.1 46.2 51.3 52.8
1^{6} 4^{3} 8^{5} 9^{4} 4^{3} 2^{8}
40 16 6 9 25

53.7 52.3 47.5 48.38 51.6 53.7
1^{9} 3^{3} 8^{1} 7^{20} 4^{0} 1^{9}
40 12 6 on Hub 4 20

π 55^{58}

48.7
16^{8}

53.1 52.7 50.6 51.3 56.0
12^{4} 12^{8} 14^{2} 14^{2} 9^{5}
28 7 15 32

55.3 54.0 53.7 52.5 53.9 56.2
10^{2} 11^{5} 11^{8} 13^{0} 11^{6} 9^{3}
25 16 19 22 30

56.7 55.9 56.1 58.3
8^{8} 9^{6} 9^{4} 7^{2}
28 15 30

π 65^{53}

Lt = Sly ℄ Rt = Nly

				-0^{02} ✓
BM starting p39			2^{08}	85^{42}
TP$_6$	10^{22}	87^{51}	0^{67}	77^{29}
TP$_5$	11^{35}	77^{96}	0^{41}	66^{61}
TP$_4$	11^{51}	67^{02}	0^{07}	55^{51}
$4+12^{45}$ Hub end Line approx ℄ Channel				
3+90				
3+70 ℄ dike of Creek				
3+45				

40.0 40.8 41.8 41.3 41.1
15.6 14.8 13.8 14.3 14.5
50 25 25 50

39.9 41.6 42.2 42.5 42.9
15.7 14.0 13.4 13.1 12.7
40 20 20 40

50.1 49.4 48.6 47.8 48.0
5.5 7.2 12.0 7.8 7.6
25 10 15 20

51.1 50.0 48.3 50.1 50.3
4.5 5.6 12.3 5.5 5.3
25 13 10 25

55.58

Clark
Shepherd
Bruner
O'Neil
5-10-54
W.O. 32197

R-X-SECT. EXIST Ditch & STREAMVIEW Dr. 54th ST to N'ly LINE HUBNER PARK

(See sketch Pg. 8)

Sta.	+	H.I.	−	Elev.	LT.	℄	RT.
3+00					273.5 +5.2/19; 272.8 +4.5/17; 262.2 6.1/9 Brk; 257.1 11.2/8 Toe	256.9 11.4	257.8 10.5/3 Toe; 263.4 4.9/6 Brk; 272.8 +4.5/16
2+42.15 = E.C.					271.8 +3.5/18; 260.9 7.4/6 Brk; 256.0 ~~255.9~~ 12.3/3.5 Toe	255.4 12.9	255.9 12.4/7 Toe; 260.6 7.7/9 Brk; 271.2 +2.9/18
T.P.	13.16	268.25	8.01	255.09		268.25	
2+00					270.4 +7.3/18.5; 255.8 7.3/8 Toe	253.6 9.5	254.4 8.7/6 Toe; 260.4 2.7/9 Brk; 269.3 +6.2/18
1+50					267.7 +4.6/16; 259.0 4.1/5 Brk; 253.5 9.6/3 Toe	252.7 10.4	253.2 9.9/7 Toe; 258.4 4.7/11 Brk; 267.6 +4.5/19
1+00					264.8 +1.7/16; 255.8 7.3/5 Brk; 251.6 11.5/4 Toe	251.5 11.6	252.4 10.7/7 Toe; 256.8 6.3/10 Brk; 265.0 +1.9/18
0+50					261.8 1.3/18; 251.9 11.2/8 Toe	249.8 13.3	249.9 13.2/3.5 Toe; 255.8 7.3/9; 261.6 1.5/20
0+23 = B.C. STREAMVIEW					260.1 3.0/22; 249.6 13.5/7.8 Toe	248.9 14.2	249.1 14.0/3.5 Toe; 260.22 2.88/17
(See Pg 12 For detail Elev's on Culvert)					248.9 14.2/8 grd; 247.8 15.3 grd ℄	247.43 15.67 F.L	249.8 13.3/3 grd; (see Pg 12)
0+12.1 Edge Conc. Box							
0+00						247.11 15.99 Chk. Fl. Line	
						263.10	
B.M.	10.03	263.10		253.07 = TP. Headwall 0+00 Pg 11			

Reduced by [illegible] 6-16-54

STREAMVIEW DR. (CONT.)

T.P.	13.05	294.08	0.33	281.03
CHK: F.L. Pipe 6+08.49			7.60	273.76 = 273.77 pg 14

6+16.49 = Fc. Headwall x Beg 60" Pipe (EXIST.)
(For detail See pg 14)

6+08.49 = B.C. STREAMVIEW (Pot Hole here)

6+00

T.P. 13.27 281.36 0.16 268.09

5+50

5+00

4+50

4+00

3+50

LT. ℄ RT. 45

294.08

283.2 / +1.8 / 17 / TP
276.4 / 5.0 / 5 / grd Brk
271.9 / 9.5 / 1 / grd Brk
268.4 / 13.0 / 1 / Toe Frd
273.76 / Flo Pipe / ℄
268.3 / 13.1 / grd ℄
268.4 / 13.0 / 4 / Toe grvl
273.1 / 8.3 / 5 / Brk grd
283.4 / +2.0 / 16 / Tr

283.2 / +1.8 / 17
275.2 / 6.2 / 7 / Brk
268.3 / 13.1 / 6 / Toe
262.9 / 18.5 / 3 / Brk
262.2 / 19.2 / Pot-Hole
265.4 / 16.0 / 3 / Brk
267.9 / 13.5 / 6 / Toe
282.8 / +1.4 / 16

282.9 / +1.6 / 17
272.4 / 9.0 / 5 / Brk
266.4 / 15.0 / 3 / Toe
264.4 / 17.0
265.4 / 16.0 / 8 / Toe
282.9 / +1.5 / 16

281.36

281.3 / +13.0 / 17
265.1 / 3.2 / 7 / Toe
264.5 / 3.8
264.8 / 3.5 / 4 / Toe
272.3 / +4.0 / 6 / Brk
279.7 / +11.4 / 16

279.6 / +11.3 / 17
262.8 / 5.5 / 3 / Toe
262.3 / 6.0
262.1 / 5.6 / 6 / Toe
272.5 / +1.2 / 7.5 / Brk
279.0 / +10.7 / 16

278.0 / +9.7 / 16
268.6 / +0.3 / 8 / Brk
261.6 / 6.7 / 7 / Toe
260.9
261.7 / 6.6 / 7.5 / Toe
271.7 / +3.4 / 9 / Brk
277.7 / +9.4 / 16.5

276.9 / +8.6 / 19
276.1 / +7.8 / 16 / Brk
269.9 / +1.6 / 8 / Brk
259.3 / 9.0 / 2 / Toe
259.2 / +1
259.2 / 9.1 / 5 / Toe
267.3 / 1.0 / 6 / Brk
276.0 / +7.7 / 16

275.0 / +6.7 / 19
266.7 / 1.6 / 8 / Brk
258.0 / 10.3 / 3 / Toe
257.7 / 10.6
255.0 / 9.3 / 7 / Toe
267.3 / 1.0 / 9 / Brk
274.6 / +6.3 / 17

268.25

STREAMVIEW DR. (CONT.) | LT. | ℄ | RT. |

Station					LT.	℄	RT.
10+00					291.4 6.8/18 TP; 288.4 9.8/12 Brk; 284.0 14.2/9 Toe	283.3 14.9	283.7 14.5/9 Toe; 287.2 11.0/11 Brk; 291.5 6.7/18 TP
9+50					290.7 7.5/18 TP; 283.2 15.0/10 Toe	282.3 15.9	283.4 14.8/9 Toe; 287.2 11.0/11 Brk; 290.6 7.6/16 TP
T.P.	7.93	298.22	3.79	290.29		298.22	
9+00					290.1 7.0/18 TP; 282.7 11.4/8 Toe	281.9 12.2	282.3 11.8/7 Toe; 290.5 3.6/16 TP
8+50					289.3 4.8/19; 281.1 13.0/8 Toe	281.3 12.8	281.5 12.6/4 Toe; 289.8 4.3/16
8+27.64 = E.C. STREAMVIEW					288.8 5.3/18; 281.2 12.9/10 Toe	280.3 13.8	280.8 13.3/1 Toe; 289.3 4.8/15
8+00					288.2 5.9/18; 281.0 13.1/10 Toe	280.4 13.7	280.5 13.6/3 Toe; 282.8 11.3/6 Brk; 288.6 5.5/17
7+50					287.1 7.0/17 TP; 279.8 14.3/10 Toe	279.6 14.5	280.4 13.7/2 Toe; 284.1 10.0/8 Brk; 287.3 6.8/15
7+00					286.1 8.0/16 TP; 281.1 13.0/10 Brk; 278.2 15.9/9 Toe	278.8 15.3	280.0 14.1/5 Toe; 286.1 8.0/14 TP
6+88.49 = END EX 60" Pipe (55th ST) & Fc. Headwall (For details see Pg 15)					285.7 8.4/15 TP; 278.6 15.5/7 grd Toe; 277.3 16.8/9-d E	276.84 17.24 FL Pipe ℄	276.8 17.3/3 grd; 285.7 8.4/16 See Pg 15

294.08

STREAMVIEW Dr (CONT.)

13+64.54 ± 24 RT Beg 60" Con. Pipe (See Pg 17 For Elev. details)
Chk. Headwall 2.4 LT. 8.35 289.87 = 289.88 Pg 17

13+50

13+00

12+50

12+25

12+00

11+75

11+50

11+00

10+50

	LT.	℄	RT
	292.4	289.6	289.1	289.7	297.2
	0.8	8.4	9.1	8.5	1.0
	13	1.5	9	9	15
	TP	Toe	Grid	Toe	
		Grid	℄	Grid	
	297.0	290.9	289.1	289.9	297.2
	1.2	7.3	9.1	8.3	1.0
	15	8		11	16
		Toe		Toe	
	296.5	288.7	288.2	289.2	295.3
	1.7	9.5	10.0	9.0	2.9
	14	5		12	19
		Toe		Toe	
	295.4	288.2	287.4	288.6	290.6	295.3
	2.8	10.0	10.8	9.6	7.6	2.9
	16	9		11	15	17
		Toe		Toe	Brk	
	294.6	287.7	287.4	287.8	288.9	294.5
	3.6	10.5	10.8	10.4	9.3	3.7
	18	11		13	15	19
		Toe		Toe	Brk	
	294.1	287.4	286.2	286.9	288.6	293.8
	4.1	10.8	11.5	11.3	9.6	4.4
	24	16		12	16	25
				Toe	Brk	
	294.0	286.7	286.6	287.5	293.9
	4.2	11.5	11.6	10.7	4.3
	24	17		18	20
	Cave-in	Toe		Toe	Cave-in
	293.7	286.2	285.6	286.6	293.6
	4.5	12.0	12.6	11.6	4.6
	20	11		14	18
		Toe		Toe	
	293.0	285.5	284.7	285.2	289.2	293.6
	5.2	12.7	13.5	13.0	9.0	4.6
	20	13		9	12	16
		Toe		Toe	Brk	
	292.2	285.1	284.7	284.7	292.4
	6.0	13.1	13.5	13.5	5.8
	19	12		9	18
	TP	Toe		Toe	

298.22

STREAMVIEW DR (CONT.)

18+00

17+50

17+00

16+50

16+05.98 E.C.

15+50

14+90 EVIS CREEK LT.

14+69.84 B.C. STREAMVIEW

DOG CREEK LT.

14+44.54 = 3.8' RT END 60" CON. PIPE (SEE PG 17 DETAILS

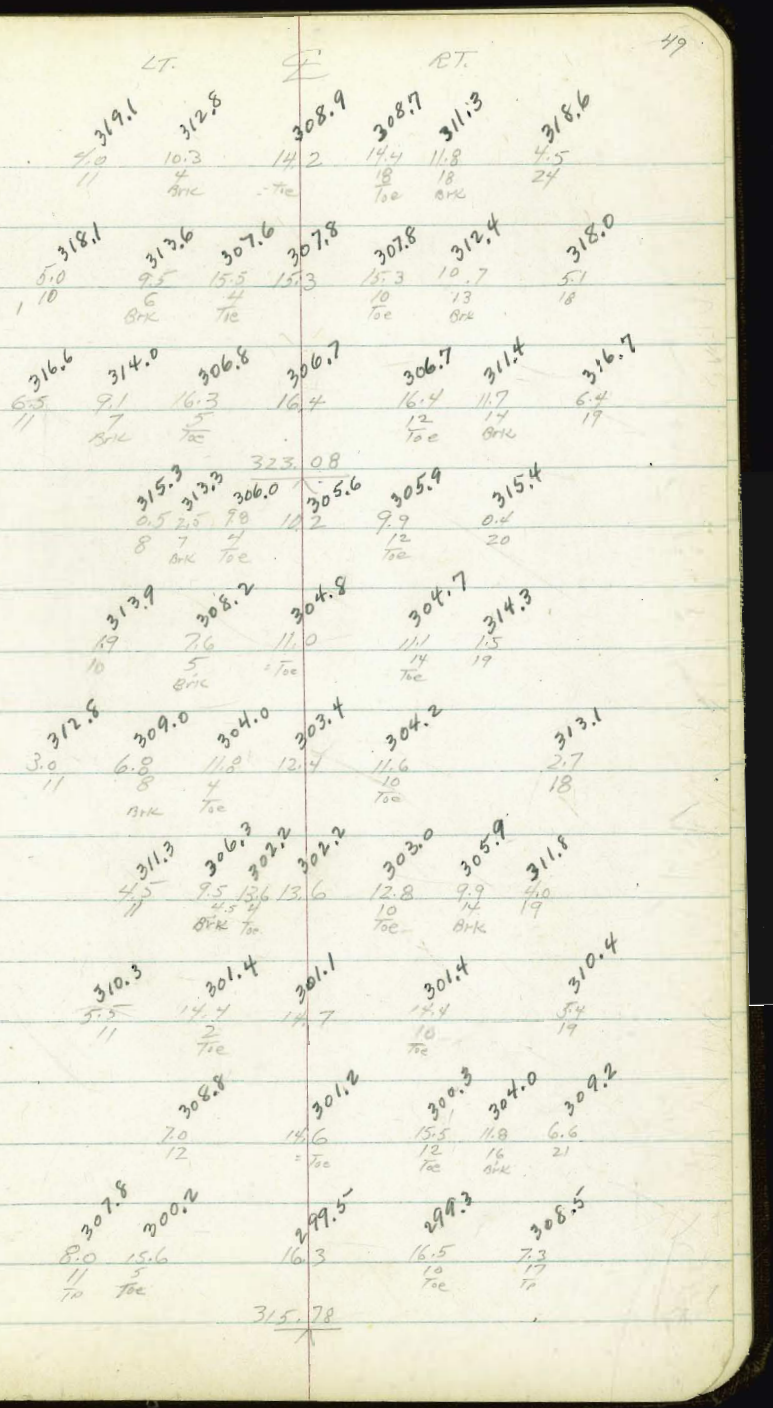
T.P. 12.17 308.19 2.20 296.02

	LT.		℄		RT.	
18+00	306.5		298.6	299.3	304.6	307.1
	1.7		9.6	8.9	3.6	1.1
	10		=Toe	9 Toe	15 Brk	20
17+50	304.9		297.7	297.1	297.5	305.8
	3.3		10.5	11.1	11.0	2.4
	10		3 Toe		10 Toe	18
17+00	303.9		297.2	295.7	296.6	304.7
	4.3		11.0	12.5	11.6	3.5
	10		7 Brk	Toe	9 Toe	16
16+50	302.7		295.6	295.7		303.6
	5.5		12.6	12.5		4.6
	9		Toe	10 Toe		17
16+05.98 E.C.	301.8	301.2	294.9	295.2		302.3
	6.4	7.0	13.3	13.0		5.9
	14	10 Brk	=Toe	12 Toe		18
15+50	300.2	298.5	293.5	293.4	294.1	301.3
	8.0	9.7	14.7	14.8	14.1	6.9
	19	12 Brk	7 Toe		7 Toe	16 Perm
14+90 EVIS CREEK LT.	299.1	292.3	291.6		293.3	300.0
	9.1	15.9	16.6		14.9	8.2
	21	8 Toe			9 Toe	18
14+69.84 B.C. STREAMVIEW	298.7	293.6	293.2	292.3	291.7	298.6
	9.5	14.6	15.0	15.9	16.5	9.6
	22	20 Brk	15 Toe		14 Toe	20
DOG CREEK LT.	297.7	290.7	296.7	289.5	290.4	292.2	298.5
	10.5	17.5	11.5	18.7	17.8	16.0	9.7
	12 TP.	11 Brk	10 Toe	9+1	8 Toe	10 Brk	18 TP.

308.19

STREAMVIEW DR. (CONT.)

22+86.36 = E.C				
22+50				
22+00				
T.P	7.62	323.08	0.32	315.46
21+50				
21+00				
20+55.98 = B.C. STREAMVIEW DR.				
20+00				
19+50				
19+00				
18+50				
T.P.	8.54	315.78	0.95	307.24



STREAMVIEW DR (cont.)

26+00				
25+50				
25+00				
24+84.36	2·8 RT ℄	End 60" Con. Pipe & Headwall (See Pg 21 detail Elevs)		
T.P.	1337	332.20	4.25	318.83
24+04.36	TP Headwall ℄ Streamview		4.25	318.83 = 318.86 Pg 20
Chk:				
23+92.36 = Lip Con. Box				
23+50				
23+20				
23+00				

	LT.	℄	RT.
	326.8 / 5.4 / 14	320.7 / 11.5 / 13.3 / 12 Toe	318.9	320.3 / 11.9 / 20 Toe	326.8 / 5.4 / 21
	325.5 / 6.7 / 15	319.2 / 13.0 / 13 Toe	318.0 / 14.2	317.0 / 15.2 / 12 Toe	325.8 / 6.4 / 19
	324.1 / 8.1 / 16	320.1 / 12.1 / 14 Brk	316.9 / 15.3 / 8 Toe	316.3 / 15.9	317.5 / 14.7 / 14 Toe	324.7 / 7.5 / 17
	323.6 / 8.6 / 11	319.2 / 13.0 / 8 Brk	316.3 / 15.9 / 2.3 Toe	316.0 / 16.2 / 8 grd	315.11 / 17.09 / 2.80 FL	315.7 / 16.5 / 7 Toe	318.2 / 14.0 / 9 Brk	324.6 / 7.6 / 16
		332.20						
	321.3 / 18 / 12	316.6 / 6.5 / 7 Brk	311.4 / 11.7 / 4 Toe grd	310.6 / 12.5 / grd	310.6 / 12.5 / 5.2 grd	312.98 / 10.10 / 5.2 Lip	310.5 / 12.6 / 11.5 Toe IBA	321.7 / 1.4 / 20 grd
	321.1 / 2.0 / 12	310.0 / 13.1 / 7 Toe	309.8 / 13.3	310.1 / 13.0 / 11 Toe	312.1 / 11.0 / 14 Brk	321.1 / 2.0 / 20
	319.8 / 3.3 / 11	313.0 / 10.1 / 3 Brk	309.7 / 13.4 / Toe	309.2 / 13.9 / 12 Toe	313.9 / 9.2 / 16 Brk	319.8 / 3.3 / 21
	319.1 / 4.0 / 11 TP	312.8 / 10.3 / 5 Brk	309.1 / 14.0 / 1 Toe	309.0 / 14.1	308.8 / 14.3 / 16 Toe	312.3 / 10.8 / 20 Brk	319.1 / 4.0 / 24 grd
		323.08						

STREAMVIEW DR. (CONT.)

2+00

1+77.03 = B.C

1+50

1+00

0+50

See sketch Pg 29

[=0+00 Pg 29 (check of Sections ahead on STATIONING Pg 29)]

28+32.37 = N'ly LINE HUBNER PK.

28+00

T.P. 5.93 336.26 1.87 330.33

27+50

27+00

26+50

	LT.			&	RT		
2+00	330.2			329.1	327.0	327.6	336.0
	6.1			7.2	9.3	8.7	0.3
	25			— FLAT —	23	26	50
						Toe	TP
1+77.03 = B.C	331.1	331.1	328.4	328.1	327.1	329.6	335.3
	5.2	5.2	7.9	8.2	9.2	6.7	1.0
	20	10	4		23	37	48
		TP	Toe			Toe	TP
1+50	330.9	330.4	327.7	327.0	325.8	328.0	336.8
	5.4	5.9	8.6	9.3	10.5	8.3	+0.5
	25	17	9		8	21	36
		TP	Toe			Toe	TP
1+00	330.7	330.3	326.6	325.2	325.1	334.7	
	5.6	6.0	9.7	11.1	11.2	1.6	
	25	17	8		4	20	
	TP Shoulder		Toe		Toe	Shoulder	
0+50	331.0	325.8	324.7	323.9	333.6		
	5.7	10.5	11.6	12.4	2.7		
	17	8		5	17		
		Toe		Toe			
28+32.37 = N'ly LINE HUBNER PK.	331.3	326.0	323.2	323.3	324.2	328.8	332.4
	5.0	10.3	13.1	13.00	12.1	7.5	3.9
	13	3	2		11	12	19
		Brk	Toe		Toe	Brk	
28+00	331.9	326.3	323.3	322.3	323.2	331.9	
	4.4	10.0	13.0	14	13.1	4.4	
	11	5	3		TP	17	
		Brk	Toe		Toe		
T.P. 5.93 336.26 1.87 330.33				336.26			
27+50	330.7	324.3	320.7	320.8	321.1	323.1	325.9	330.7
	1.5	7.9	11.5	11.4	11.1	9.1	6.3	1.5
	10	3	1		4	5	8	17
		Brk	Toe		Toe	Brk	Brk	
27+00	329.6	324.1	320.5	320.3	321.6	329.6		
	2.6	8.1	11.7	11.9	10.6	2.6		
	9	4	3		8	17		
		Brk	Toe		Toe			
26+50	328.6	322.6	320.3	320.6	327.6			
	3.6	9.6	11.9	11.6	4.6			
	11	8		11	14			
	TP shoulder	Brk	Toe	Toe	TP shoulder			
			332.20					

STREAMVIEW Dr (Cont.)

Note: Sections should appear unchanged
EXCEPT FOR Road Contraction has roughed in
to FACILITATE unloading of Conc. Pipe - Clark.

Chk: 13.74 327.83 = 327.77 -2ft HUB at STA. 477.03 Rt 31

4+50

4+00

3+50

T.P 9.78 341.57 4.47 331.79

3+00

2+50

LT. ℄ RT.

334.9 334.7 335.1 335.1 334.9 338.7
6.7 6.9 6.5 6.5 6.7 2.9
13.3 25 ~ FLAT. ~ 10 20 30
TOC

333.4 334.1 333.5 332.9 335.1 337.2
8.2 7.5 8.1 8.7 6.5 4.4
25 FLAT - 5 7 12 20

332.0 332.6 335.8 337.0
9.6 9.0 5.8 7.6
25 - FLAT - 10 20

341.57

330.3 331.0 331.5 333.2 336.1
6.0 5.3 4.8 3.1 0.2
20 - FLAT - 10 20 32

330.3 329.7 330.3 333.5
6.0 6.6 6.0 2.8
25 - FLAT - 20 28
TOC BANK

336.26

INDEXED

5

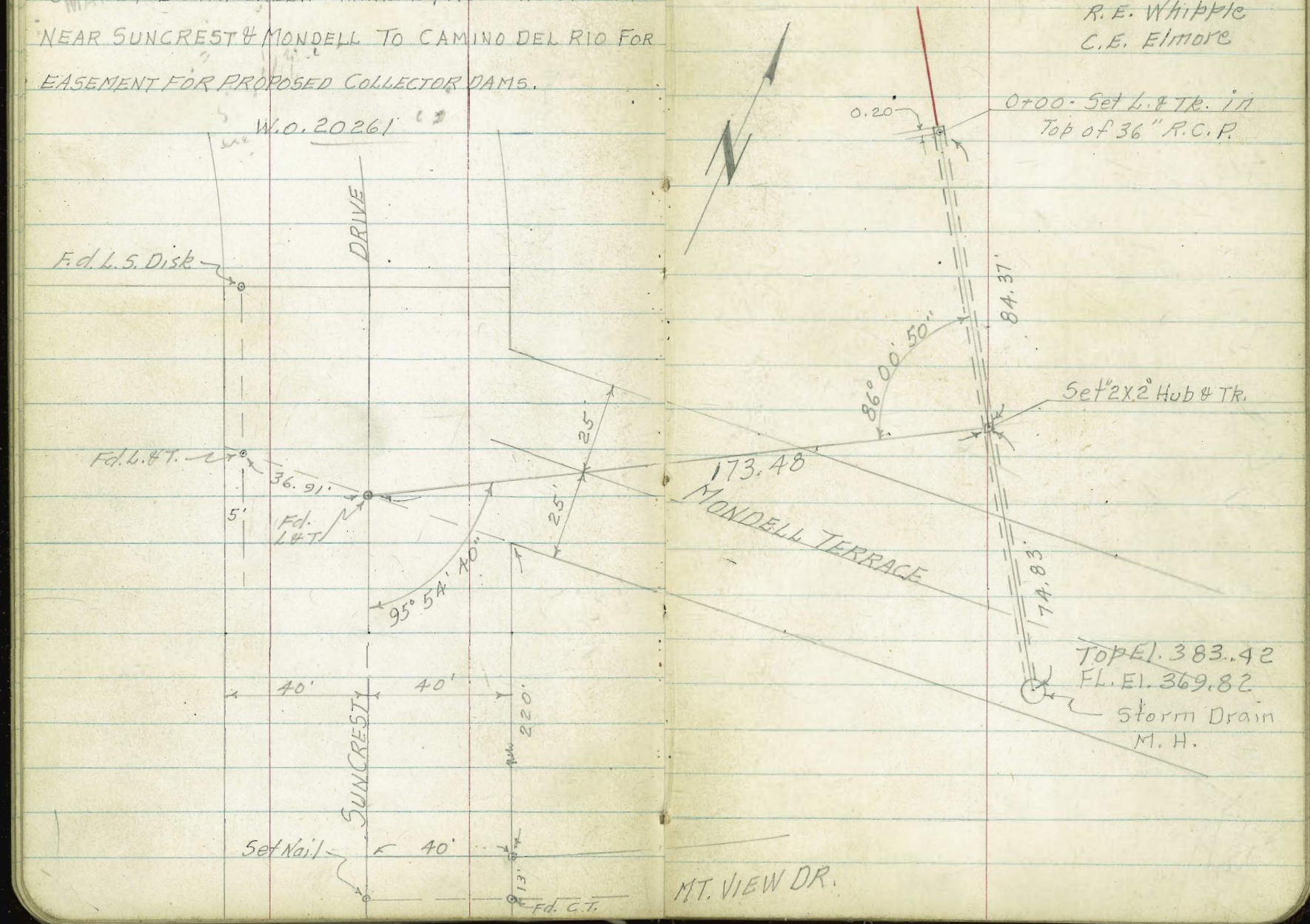
SURVEY DOWN CREEK CHANNEL FROM END OF CULV. NEAR SUNCREST & MONDELL TO CAMINO DEL RIO FOR EASEMENT FOR PROPOSED COLLECTOR DAMS.

W.O. 20261

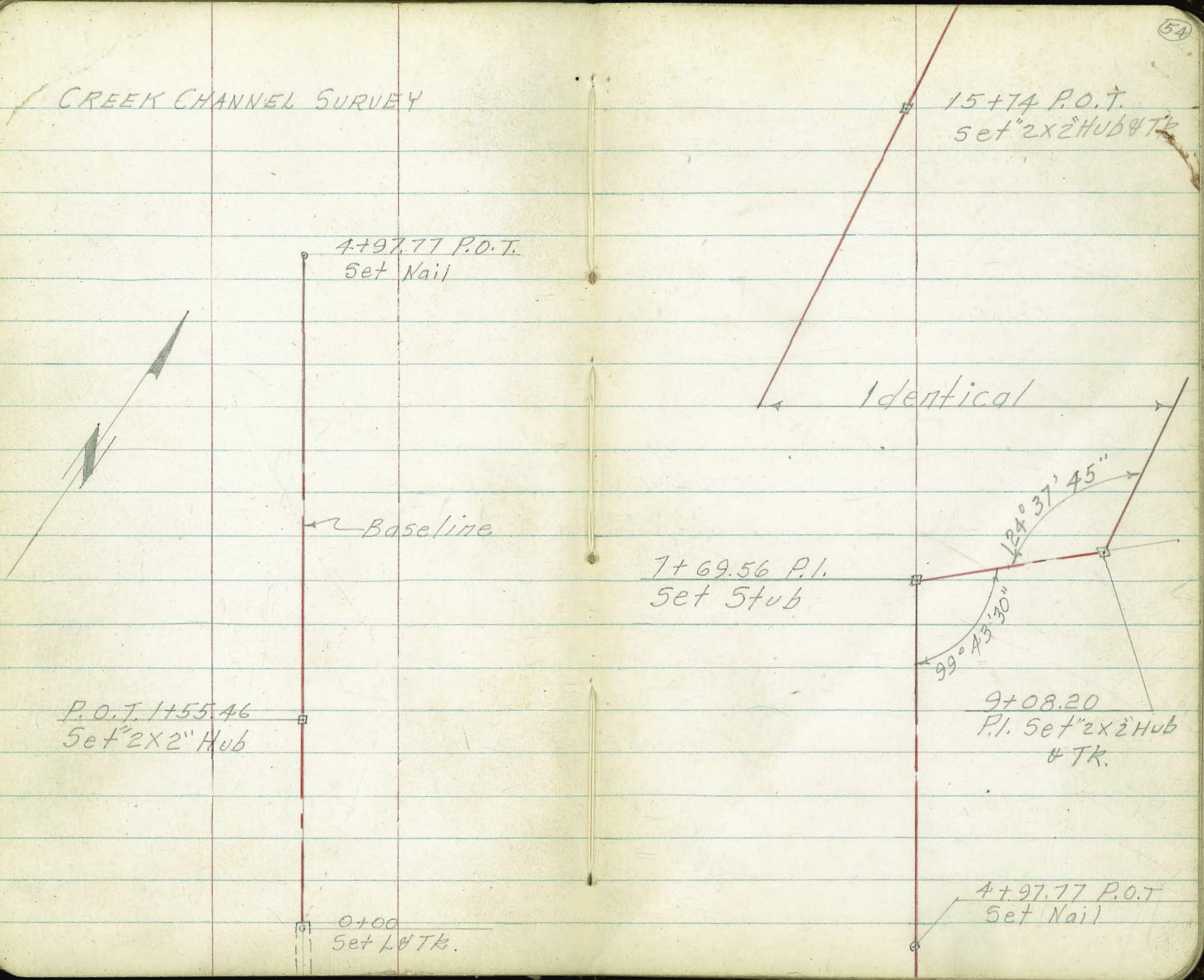
Ref FB 1787 - Tie Pt Book - 18
" Maps 1049 - 1155 - 1361 - 1870

3 - 28 - 55

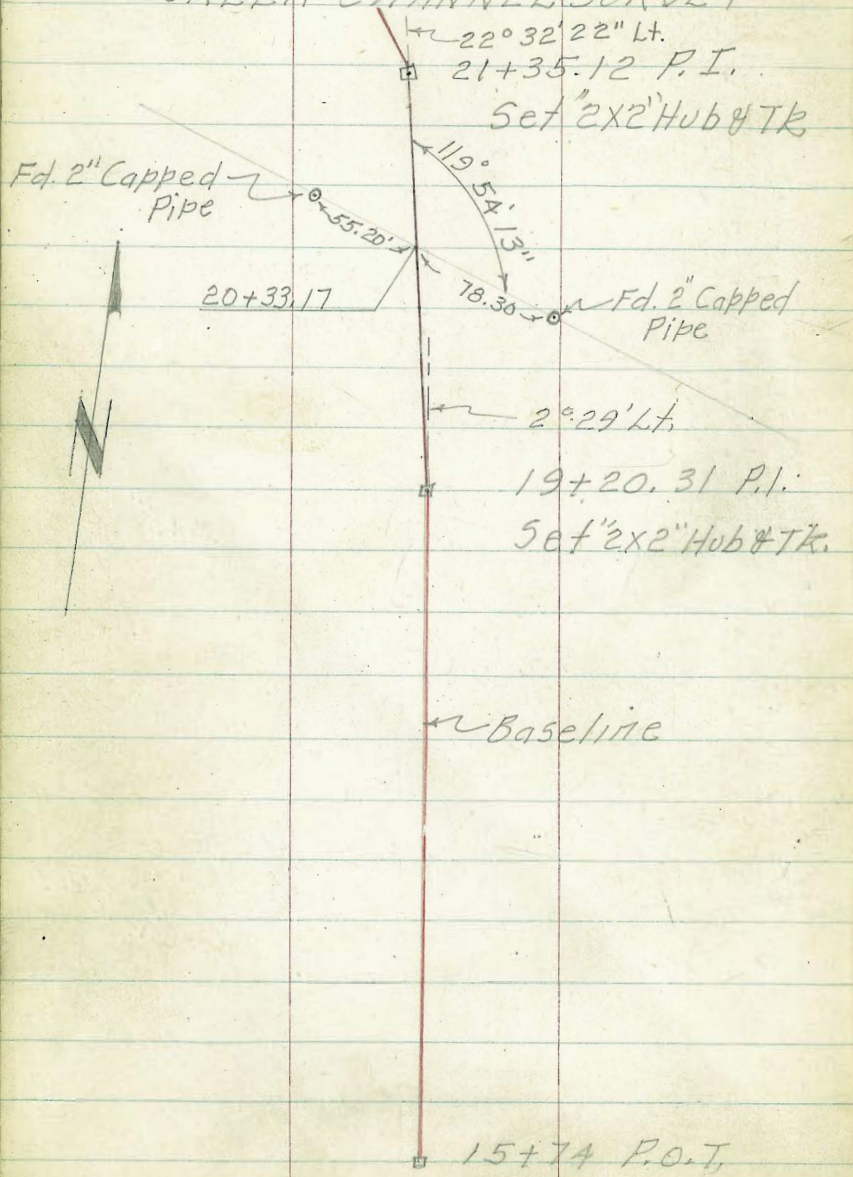
T. A. Stampel
J. B. Huffman
R. E. Whipple
C. E. Elmore

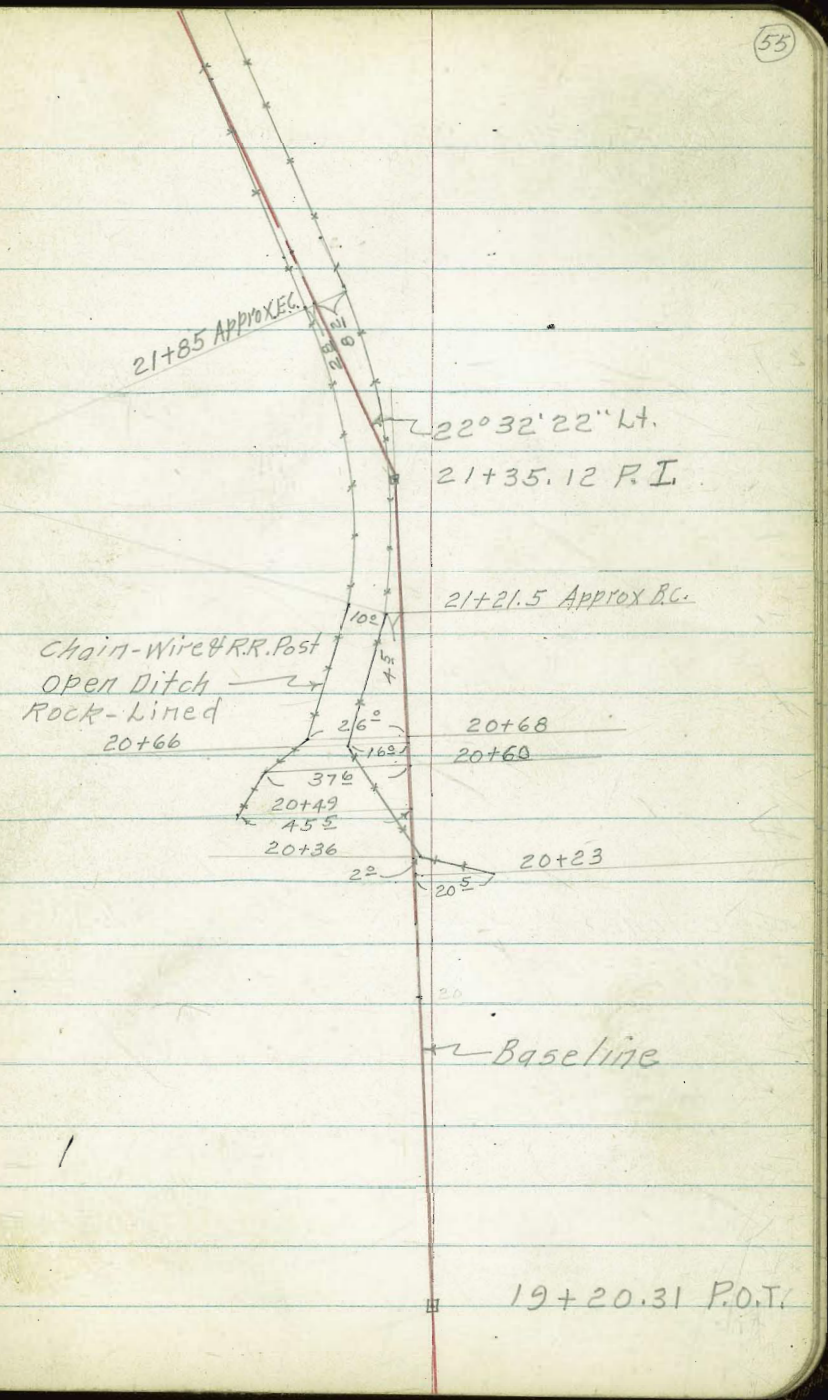


CREEK CHANNEL SURVEY

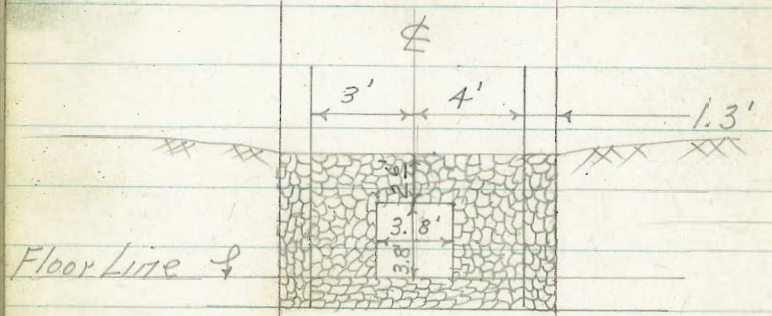


CREEK CHANNEL SURVEY

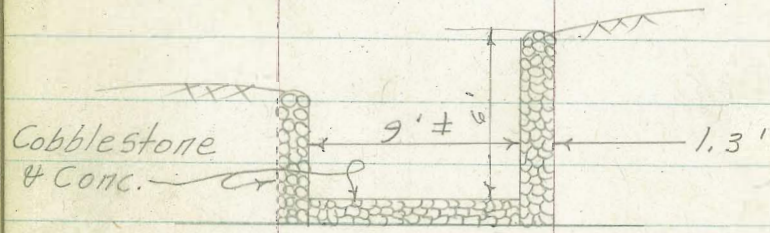




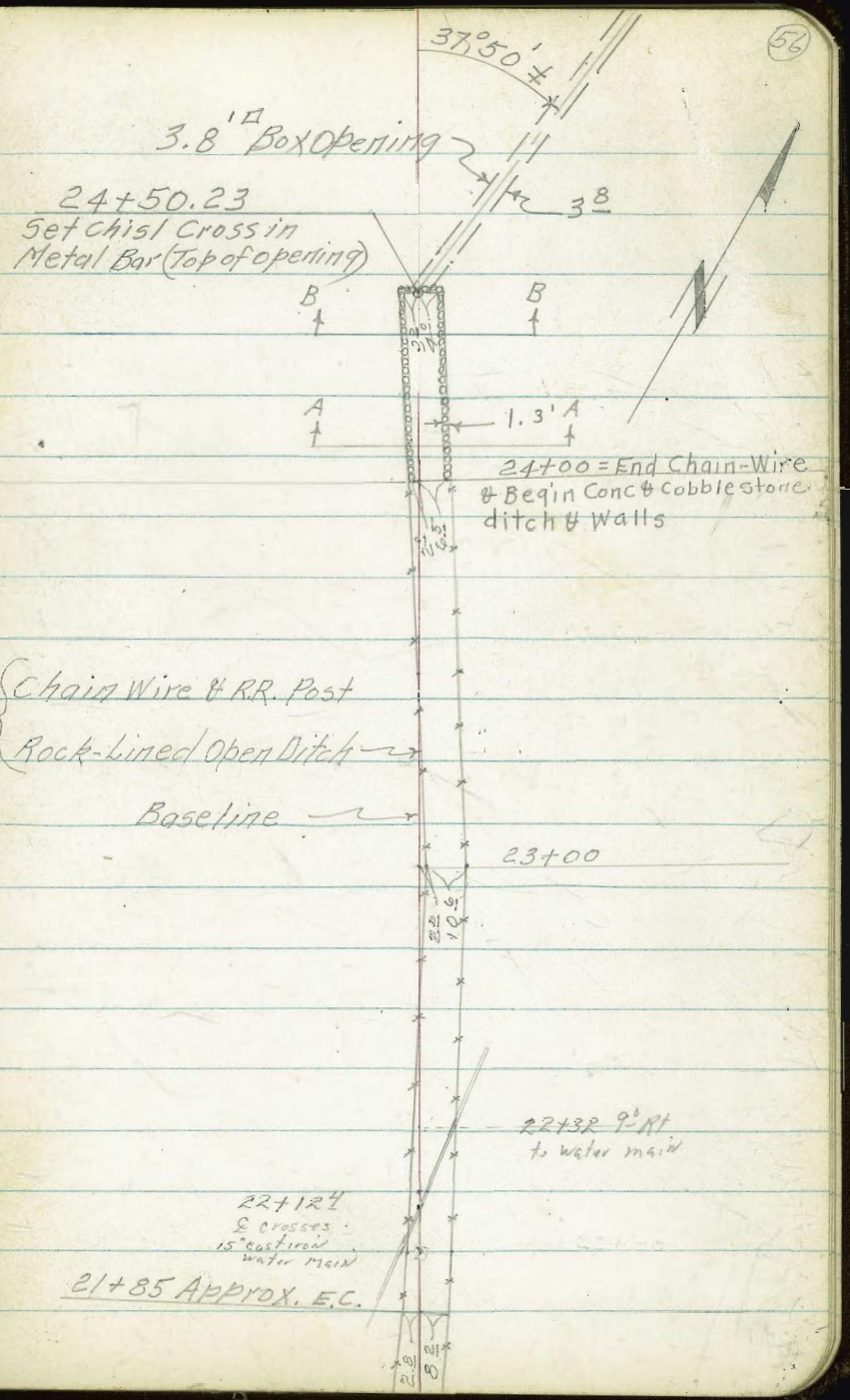
CREEK CHANNEL SURVEY



SEC. B-B



SEC. A-A



NOTE: Rods Shown Thus -(-0.0) are Plus & are to be added To H.I. 3-30-55

Stamper
Huffman
Blunt
Elmore

(5)

CROSS SECTIONS NLY FROM EXISTING 36" R.C.P. @ MONDELL TERRACT TO BOX CULV. @ CAMINO DEL RIO W.O. 20261

	Lt.		℄					Rt.
			339.9	331.3	329.9	329.3	334.6	352.9
0+88	356.9 -(-16.0) 50		1.0 22	9.6 7	11.0 0	11.6 17	6.3 25	-(-12.0) 50
			340.9	331.9	330.1	130.7	336.4	339.9	349.9
0+50	351.9 -(11.0) 40		0.0 25	9.0 10	10.8 0	10.7 13	4.5 22	1.0 25	-(-9.0) 40
			338.9	333.4	332.2	332.7	334.3	338.9	349.9
0+21	353.9 -(13.0) 45		2.9 20	7.5 10	8.7 0	8.2 5	6.0 16	2.0 20	-(-9.0) 35
			336.0	331.7	331.37	328.27	331.3	335.0
0+00	341.9 -(-1.0) 25		4.9 13	9.2 6	9.50 Top Pipe on C.T.	12.60 0 F.L.	9.4 6	5.9 12
			↑ 340.83				↑ 340.87	
T.P. +3.00	340.87 -12.01	340.83 -12.05	337.87	337.83				
T.P. +1.50	349.88	349.88 -12.30	348.38					
T.P. +0.30	360.68	-13.09	360.38					
T.P. +0.68	373.47	-13.28	372.79					
B.M. +3.46	386.07		382.61	1787/36	Top Chisl Cross & Top N.E. Cb Ref. @ Suncrest Drive & Mondell Terrace			

CREEK CHANNEL X-SEC'S

3+40

317.3	311.9	315.5	℄	313.4	311.3
1.0	6.4	2.8		4.9	7.0
65	50	38		30	9 TOP

298.1	309.6	317.9	353.3 ℄
20.2	8.7	1.3	-(-17.0)
℄ Wash	0	10	50

318.28 13.67 316.46

TP +1.82 318.18 -13.70 316.36

⊼ 318.18 ⊼ 318.28

3+00

329.1	327.1	323.7	319.4	316.5
1.0	3.0	6.4	10.7	13.7
50	35	31	23	10

308.1	308.1	308.1	314.1	324.3	340.1
22.0	22.0	22.0	16.0	8.9	-(-10.0)
6	0	2	7	13	53
	℄ Wash				

2+45

339.1	332.1
-(-9.0)	-(-2.0)
50	37

336.1	320.0	315.9	311.0	318.8	340.6
4.0	10.1	14.2	19.1	11.3	-(-10.5)
14	0	4	14	20	50
		℄ Wash V-Shape			

2+00

342.1
-(-12.0)
41

334.1	331.1	328.3	333.9	342.6
-(-4.0)	-(-1.0)	1.8	6.2	-(-12.5)
21	0	16	20	50
		℄ Wash		

330.13 -13.64 327.23

TP +2.90 330.06 -13.67 327.16

⊼ 330.06 ⊼ 330.13

1+50

357.9	350.9
-(-17.0)	-(-10.0)
48	36

347.9	339.9	333.3	328.4	327.9	339.9	347.9
-(-2.0)	1.0	7.6	12.5	13.0	1.0	-(-7.0)
25	0	34	38	48	50	65
		Toe Wash		Toe Wash		

1+00

344.9	337.5	335.1
-(-16.0)	-(-4.0)	3.4
50	30	16

333.1	330.4	4.7	352.9
5.8	7.2	10.5	6.2	-(-12.0)
8	13	20	25	50
		℄ Wash		

340.87

340.83

⊼ 340.83 ⊼ 340.87

CREEK CHANNEL X-SEC'S Lt. | 3-30-55 ℄ Rt.

Sta.	+/−	H.I.	−	Elev.	Lt.	℄ / Rt.
T.B.M.	Set P.P. P.P. #90626		−13.65 (−13.62)	271.39		
6+00					273.9 / 11.3 / 95 W.Top bank; 255.0 / 30.2 / 43 W.Toe Wash; 250.0 / 35.2 / 39; 250.2 / 35.0 / 31 E.Toe wash; 252.2 / 33.0 / 27 Top bank	267.9 / 17.3 / 0; 278.2 / 7.0 / 20
TP	+3.28	285.04 (285.24)	−13.30 (−13.27)	281.76 (281.96)		⊼ 285.04 ⊼ 285,24
5+50					286.4 / 8.8 / 105; 272.2 / 23.0 / 82; 268.2 / 37.0 / 55; 253.2 / 42.0 / 54 W.Toe Wash	251.2 / 44.0 / 41 E.Toe Wash; 257.9 / 37.3 / 38; 262.7 / 22.5 / 16; 283.0 / 12.2 / 0; 290.6 / 4.6 / 13
5+00					284.6 / 10.6 / 111; 259.7 / 35.5 / 48 W.Toe Wash; 261.2 / 34.0 / 39 E.Toe Wash; 267.2 / 28.0 / 37	281.2 / 14.0 / 14; 280.3 / 4.9 / 0; 299.3 / −(−4.1) / 14
						⊼ 295.06 ⊼ 295.23
TP.	+2.97	295.06 (295.23)	−13.47 (−13.43)	292.09 (292.26)		
4+50					290.7 / 15.0 / 85; 271.2 / 34.5 / 43 Toe wash; 270.7 / 35.0 / 33 Toe Wash	276.2 / 29.5 / 25; 291.4 / 14.3 / 0; 307.7 / −(−2.0) / 30; 312.7 / −(−7.0) / 50
4+00					292.9 / 12.8 / 75; 295.4 / 10.3 / 64; 294.2 / 9.5 / 50; 297.0 / 8.7 / 40; 299.0 / 6.7 / 23	286.2 / 19.5 / 12 ℄ 6' Wash; 294.0 / 11.7 / 0; 304.7 / 1.0 / 15; 320.7 / −(−15.0) / 37
						⊼ 305.56 ⊼ 305.69
TP.	+0.82	305.56 (305.69)	−13.44 (−13.41)	304.74 (304.87)		⊼ 318.18 ⊼ 318.28

CREEK CHANNEL X-SECS — Lt — ℄ — RT

(60)

4-08-55

9+10 - 6ᵗʰ Rt. from bk Tan Prod. = ℄ P.P. № 90621

+1.04 246.73 (red: 246 @)

Set P.K. P.P. № 90621

T.B.M. -13.86 (red: -13.83) 245.69

+1.92 259.55 (red: 259.84) Top P.I. Hub

T.P. 7+69.56 -11.87 (red: -11.84) 257.63 (red: 257.92)

7+69.56 P.I. Sec on split ℄

⊼ 259.55 (red: ⊼ 259.84)

265.9	257.7	231.5	229.5	229.5	235.5	257.6
3.6 / 17	11.8 / 0	38.0 / 52 Top bank	40.0 / 54 W. Toe Wash	40.0 / 64 E. Toe Wash	34.0 / 65 Top bank	11.9 / 105

7+20

242.3	239.0	232.5	232.5	233.5	237.5	250.6
17.2 / 30	30.5 / 0 Top bank	37.0 / 3 W. Toe Wash	37.0 / 14 E. Toe Wash	36.0 / 16 Top bank	32.0 / 50	18.9 / 95

6+75

249.0	241.5	237.4	237.5	240.5	244.5	255.2	264.2
20.5 / 75 In draw	28.0 / 31 Top bank	32.1 / 30 W. Toe Wash	32.0 / 20 E. Toe Wash	29.0 / 20 Top bank	25.0 / 0	14.3 / 30	5.3 / 50

6+50

263.5	257.8	244.5	241.3	241.5	246.8	253.8	258.4
6.0 / 86	11.7 / 60	25.0 / 30 Top bank	28.2 / 28 W. Toe Wash	28.0 / 20 E. Toe Wash	22.7 / 19 Top bank	15.7 / 0	11.1 / 25

Measured down the pole says Stanger

+1.11 269.50 (red: 269.76) -3.00 (red: -2.97) 268.39 (red: 271.62)

⊼ 269.50 (red: ⊼ 269.76)

CREEK CHANNEL X-SEC'S Lt. ℄ Rt.

10+50
221.2 216.0 209.6 205.6 205.9 205.7 208.6 211.0 215.6 220.3 225.1
3.9 9.1 15.5 19.5 19.2 19.4 16.5 14.1 9.5 4.8 0.0
72 47 36 34 27 18 17 10 0 7 15
W top Bot. ℄ Bot. E top

+4.55 225.14 224.76 ⊼ 224.76 ⊼ 225.14

Set PK P.P.# 90620

T.B.M. 13.60 -13.63 220.59 220.21

NOTE; Wash Makes 90° bend To East @ this Sec.

10+00
232.7 218.7 213.2 212.2 208.2 208.2 218.2 220.8 230.5
1.5 15.5 21.0 22.0 26.0 26.0 16.0 13.4 3.7
79 48 42 40 12 8 6 0 15
Top bank W.Toe Wash ℄ Wash Toe ℄ Wash To North E.Toe Wash Top

T.P. +0.61 234.19 233.84 13.47 -13.50 233.58 233.23 ⊼ 233.84 ⊼ 234.19

9+50
242.1 219.1 216.6 216.6 219.1 219.6 231.2 240.7
5.0 28.0 30.5 30.5 28.0 27.5 15.9 6.4
84 40 38 30 28 17 0 15
Top bank W Toe Wash E Toe Wash Top bank

9+08.20 P.I. Sec. on Split ℄
237.6 220.6 217.6 217.6 221.6 238.2 246.5
9.5 26.5 29.5 29.5 25.5 8.9 0.6
87 51 48 42 40 0 15
Top bank W Toe Wash E Toe Wash Top bank

8+50
239.2 227.1 224.1 225.6 228.1 225.6 225.6 228.1 236.1 245.6
7.9 20.0 23.0 21.5 19.0 21.5 21.5 19.0 11.0 1.5
53 21 20 0 6 8 17 18 39 60
Top Toe Wash Curves To West Top bank W.Toe Wash E.Toe Wash Top bank

⊼ 246.73 ⊼ 247.05

CREEK CHANNEL X-SEC'S

	Lt	℄	Rt
11+31		193.1 17.3 Bot Bank	
11+28		202.9 7.2 top Bank	
11+19	211.7 +1.3 50 · 206.3 4.1 40 · 201.2 9.2 30 top of Bank · 195.8 14.6 29 Bot · 195.0 14.8 22 ℄ · 195.1 15.3 15 Bot Bank · 200.1 10.3 13 top ℄ Bank · 204.7 5.7 · 210.4 0.0 13 · 217.4 +7.0 26		
11+09		206.4 4.0 top Bank	
11+07	208.0 +2.4 55 · 205.9 4.5 42 · 204.4 6.0 29 top Bank · 197.4 13.0 26 Bot Bank · 197.4 13.0 13 ℄ · 199.4 11.0 Bot Bank · 200.1 10.3 4 Bot Bank · 208.6 1.8 4 top Bank · 214.4 +4.0 16 · 220.7 +10.3 28		
10+80 ℄ crosses Rt Bank	210.4 +1.0 50 · 206.4 4.0 36 · 204.1 6.3 23 · 202.9 7.5 12 top Bank · 202.2 8.2 10 · 200.2 10.2 0 · 200.6 9.8 3 Bot ℄ Bank · 207.4 3.0 5 top ℄ Bank · 221.8 +11.4 24		
TP 8.18	210.44 210.00	11.55 11.58	202.26 201.82		π 210.00	π 210.44
10+75	217.8 +4.0 51 · 205.7 8.1 31 · 203.6 10.2 30 · 202.8 11.0 25 ℄ wash · 101.8 12.0 10 Bot · 204.1 9.7 8 top Bank · 208.8 5.0 0 top Bank · 221.0 +7.2 20		
TP 1.18	213.81 213.40	12.51 12.54	212.63 212.22 top Left 10+60		π 213.40	π 213.81

CREEK CHANNEL X-SEC'S

Lt. | ℄ | Rt.

12+25

206.4	196.5	188.1	187.0	184.6	184.7	189.5	189.9	190.9	193.4	195.1	
$+8^{5}$	1^{4}	9^{8}	10^{9}	13^{3}	13^{2}	8^{4}	8^{0}	7^{0}	4^{5}	2^{3}	
50	33	24 top slope Bank	18 Bot Bank	12 ℄ wash	6 Bot Bank	5 top Bank		12	20	25	

12+00

211.1	199.5	187.4	187.5	188.2	189.9	192.9	197.1	201.9		
$+13^{2}$	$+1^{6}$	10^{5}	10^{4}	9^{7}	8^{0}	5^{0}	0^{8}	$+4^{0}$		
57	40 top Bank	40 Bot Bank	℄ 30 wash	21 Bot Bank	18 top Bank		12	25		

11+75

210.9	202.4	193.9	190.0	189.3	190.3	193.8	199.1	201.9	204.1	
$+13^{0}$	$+4^{5}$	4^{0}	7^{9}	8^{6}	7^{6}	4^{1}	$+1^{2}$	$+4^{0}$	$+6^{2}$	
57	40	25 top Bank	24 Bot Bank	18 ℄ wash	Bot 13 Bank	11 top Bank		10	20	

TP

0^{27}	197^{86} / 197^{39}	12^{85} / 12^{88}	197^{59} / 197^{12}	11+75 3' Lt Lath

HI 197^{39} — HI 197^{86}

11+60

198.6

11^{8} top Bank

11+58

191.9

18^{5} Bot Bank

11+42

208.1	201.2	196.5	194.7	192.4	192.3	192.9	200.9	
2^{3}	9^{2}	13^{2}	15^{7}	18^{0}	18^{1}	17^{5}	9^{5}	
40	27	17	9 top Bank	7 Bot Bank		4 Bot Bank	7 top E Bank	

HI 210^{00} — HI 210^{44}

CREEK CHANNEL X-SEC'S

Lt — ℄ — Rt

13+20

190.6 | 179.8 | 175.2 | 176.2 | 177.2 | 179.7 | 179.2 | 182.3 | 186.3

$+3^{0}$ / 50 | 7^{8} / 36 | 12^{4} / 36 Bot Bank | 11^{4} / 22 ℄ wash | 10^{4} / 16 Bottom Bank | 7^{9} / 14 top Bank | 8^{4} | 5^{3} / 25 | 1^{3} / 50

TP 2^{96} | 187^{15} (red: 187^{64}) | 13^{20} (red: 13^{18}) | 184^{19} (red: 184^{68})

HI 187^{15} — HI 187^{64} (red)

13+04

181.7

16^{3} top Bank

13+01

179.1

18^{8} Bot Bank

12+92

181.4 | 179.2 | 179.6 | 180.9 | 182.3

16^{5} / 24 top Bank | 18^{7} / 22 Bot Bank | 18^{3} ℄ wash | 17^{0} / 5 Bot Bank | 15^{6} / 5 top Bank

17^{0} 180.9 Bot Bank

12+80

12+78

199.2 | 193.2 | 182.4 | 182.0 | 180.9 | 180.5 | 179.2 | 184.1 | 183.2 | 186.7 | 194.6

$+1^{3}$ / 52 | 4^{7} / 40 | 15^{5} / 22 | 15^{9} / 15 top Bank | 17^{0} / 14 Bot Bank | 17^{4} / 8 ℄ wash | 16^{7} / 1 Bot Bank | 13^{8} top Bank | 14^{2} / 10 | 11^{2} / 20 | 3^{3} / 40

12+50

196.9 | 189.1 | 183.1 | 182.9 | 183.2 | 185.6 | 186.0 | 187.5 | 192.5

1^{0} / 40 | 9^{8} / 21 top Bank | 14^{8} / 20 Bot Bank | 15^{0} / 15 ℄ wash | 14^{7} / 8 Bot Bank | 12^{3} / 5 top Bank | 11^{9} | 10^{4} / 15 | 5^{4} / 25

HI 197^{39} — HI 197^{86} (red)

CREEK CHANNEL X-SEC'S. Lt. ℄ Rt.

TP. 2^27 159^21 (159^29) 12^86 156^94 (12^83 157^52)

15+75
176.1 164.5 156.2 153.2 152.1 151.1 157.7 159.0 164.9 174.9 185.6 208.7
+5^7 4^9 14^2 17^2 18^3 | 19^3 12^7 11^4 5^5 +4^5 +15^2 +38^3
117 100 79 76 64 | 50 48 40 20 17 44
top Bank, Bot Bank, ℄ wash, Bot Bank, top Bank

15+50
187.9 180.0 179.8 175.8 162.7 160.8 155.4 154.0 154.4 158.4 160.1 165.9 170.4 176.0 194.9
+17^5 +9^6 +9^9 +5^4 7^7 9^6 15^0 16^4 | 16^0 12^0 10^3 5^4 0^0 +5^6 +24^5
133 127 120 112 95 82 80 70 | 54 50 35 20 10 35
top Bank, Bot Bank, ℄ wash, Bank Bot, top Bank

15+00
186.5 169.8 166.4 163.5 160.6 160.1 160.3 165.9 169.4 179.7 191.7 202.7
+16^1 0^6 4^2 6^2 9^8 | 10^3 10^1 5^4 1^0 +9^3 +21^3 +32^3
130 94 50 28 | 17 9 7 10 18 30
top Bank, Bot Bank, ℄ wash, Bot Bank, top Bank

14+50 Note gd. elv. as shown
166.0 164.1 175.4 185.6 191.6 197.2
187^2 176^4 174^4 170^4 168^0 | 165^2 163^3 163^1 174^6 179^0 184^8 190^8 196^6
129 92 68 5 32 | 30 19 14 8 el. 8 20 27
top Bank, Bot Bank, ℄ wash, Bot Bank, top Bank

TP 7^14 169^80 (170^35) 13^32 162^66 (13^29 163^21) π 169^80 π 170^35

TP 1^95 175^98 (176^50) 13^12 174^03 (13^09 174^53)

14+00
182.0 178.2 173.2 171.1 170.6 169.4 169.4 172.6 177.4 183.2 194.4
5^6 9^4 14^4 16^6 | 17^0 18^2 18^2 15^0 10^2 4^4 +6^8
90 70 50 43 | 40 31 22 21 10 31
top Bank, Bot Bank Slop, ℄ wash, Bot Bank, top Bank

13+50
182.7 176.4 175.6 173.8 172.6 173.8 176.2 176.3 180.4 184.9
4^9 11^2 12^0 | 13^8 15^0 13^8 11^4 11^3 7^2 2^7
50 40 25 | 23 18 12 11 20 45
top Bank, Bot Bank, ℄ wash, Bot Bank, top Bank

π 187^15 π 187^64

CREEK CHANNEL X-SEC'S Lt ℄ Rt

17+71
136.0 / 23^6 Bot Bank

17+69
140.9 / 18^7 top Bank

17+50
171.7 153.8 150.2 143.7 141.7 137.5 137.5 137.6 142.7 141.2 142.4 146.0 177.2
+12^1 5^8 9^4 15^9 17^9 22^1 22^1 22^0 16^9 18^4 17^2 13^6 +17^6
103 82 55 40 29 top Bank | 27 Bot Bank | 21 ℄ wash | 15 Bot Bank | 8 top Bank | 20 50 10R

17+00
175.9 160.0 157.9 150.6 142.8 141.6 140.4 142.9 143.6 154.8 185.3
+16^3 +0^4 1^7 9^0 16^8 18^0 19^2 16^7 16^0 4^8 +25^7
118 85 72 57 top Bank | 39 Bot Bank | 28 ℄ wash | 12 Bot Bank | 11 top Bank | 24 77

16+50
178.6 169.6 164.1 161.6 159.9 149.1 145.9 144.9 145.1 147.2 146.9 145.9 145.4 147.2 144.9 144.9 146.3 146.8 155.6 186.9 194.1
+19^0 +10^0 +4^5 +2^0 +0^3 10^5 13^7 14^7 14^5 12^4 12^7 13^9 14^2 12^4 14^7 13^7 13^3 12^8 4^0 +27^3 +34^5
150 115 90 82 72 59 top Bank | 56 Bot Bank | 52 ℄ main wash | 46 45 34 32 20 18 10 Bot Bank | 1 top Bank | 5 18 59 65

TP 16+50 50 Rt on left top 12^84 158^99 (159^60) 13^06 (13^02) 146^15 (146^76)

⊼ 158^99 ⊼ 159^60

16+00
173.7 171.3 151.3 151.4 149.1 147.8 149.4 157.2 158.5 173.0 205.8
+13^9 +11^5 8^5 8^4 10^7 12^0 10^4 2^6 1 3 +13^2 +46^0
120 104 74 60 TOP Bank | 58 Bot Bank | 47 ℄ wash | 35 Bot Bank | 18 top Bank | 31 43

⊼ 159^21 ⊼ 159^79

CREEK CHANNEL X-SECS Lt. ℄ Rt.

20+00

160.3 123.8 123.3 121.8 118.2 117.8 117.7 122.2 127.4 129.9 128.7 118.6 132.0 146.5

+25.6 10.9 11.4 12.9 16.5 16.9 17.0 12.5 7.3 4.8 6.0 16.1 2.7 +11.8

115 58 50 36 top Bank; 31 Bot Bank; 27 ℄ wash; 17 Bot Bank; 15 top Bank; 7 10 22 36 63

TP 0.49 | 133.99 (134.66) | 13.06 (130.03) | 133.50 (134.17)

⊼ 133.99 ⊼ 134.66

19+50

135.7 131.4 130.8 119.8 120.2 122.2 126.9 136.8 138.5 123.1 141.6 166.3

12.1 15.6 16.4 27.4 27.0 25.0 20.3 10.4 8.7 24.1 5.6 +19.1

96 60 18 top Bank; 40 Bot Bank; 34 ℄ wash; 24 Bot Bank; 19 top Bank; 6 19 40 79

19+00

151.3 136.7 135.4 127.3 125.8 123.6 123.7 125.8 126.1 131.9 130.9 138.7 135.0 132.4 135.2 151.4 152.6

+14.1 10.5 11.8 19.2 21.4 23.6 23.5 21.4 21.1 15.3 16.3 8.5 12.2 14.8 12.0 +4.2 +5.4

98 66 55 top Bank; 50 Bot Bank; 42 41 32 31 21 Bot Bank; 20 top Bank; 12 11 15 19 57 83

18+50

168.2 149.8 143.9 130.8 135.4 135.6 126.7 127.6 129.4 130.5 138.4 138.2 138.5 160.5

+21.0 +2.6 3.3 16.4 11.6 11.6 20.5 19.6 17.8 16.2 8.8 9.0 8.7 +13.3

90 64 52 40 33 30 top Bank; 28 Bot Bank; 20 17 2 Bot Bank; top Bank; 20 32 72

18+35

8.5 138.7 top Bank

18+32

18.0 129.2 Bot Bank

18+00

164.9 151.0 142.0 140.0 133.4 131.9 133.9 133.4 133.6 143.2 147.6 170.9

+17.7 +3.8 5.2 7.2 13.8 15.3 13.3 13.8 13.6 4.0 +0.4 +23.7

87 58 48 30 top Bank; 22 Bot Bank; 15 deepest wash; 12; wash; 13 Bot Bank; 23 top Bank; 47 77

TP 0.18 | 146.56 (147.20) | 12.61 (125.8) | 146.38 (147.02)

⊼ 146.56 ⊼ 147.20

							Lt. Wly	℄	Rt. Ly
22+00							+44.5 / 32 · 4.8 / 13 · 7.5 / 3 top · 10.0 / 3 Bot	10.8 · 9.0 / 8.3 Bot · 5.2 / 8.5 top	6.3 / 40 · 3.2 / 42 · +9.2 / 70
TP	4.50	112.10 (112.83)	13.16 (13.13)	107.60 (108.33)	21+85 9' Rt top Iron. Rail			π 112.10	π 112.83
							7.7 / 21 · 11.8 / 10 top · 15.0 / 10 Bot · 15.9 / 5 ℄ · 16.5 / 0.5 Bot	12.0 top · 11.2 / 17 · 11.1 / 31	8.0 / 33
21+50									
21+35.12	∠ Lt 22°32′22″ (taken on split)				+15.8 / 67 · 5.3 / 23		10.2 / 15 top · 14.3 / 15 Bot · 15.2 / 10 ℄ · 14.8 / 4.5 Bot · 10.2 / 4.5 top	9.8 · 9.8 / 28 · 3.1 / 35	+8.0 / 59
21+00			+24.0 / 76 (145.5) · +4.6 / 44 (126.1) · +1.6 / 39 (123.1)	+1.0 / 30 (122.5) · 5.3 / 22 (116.2)	8.3 / 18 top Bank (113.2)		12.7 / 18 Bot Bank (108.8) · 13.6 / 13 ℄ wash (107.9) · 12.1 / 8 Bot Bank (109.4) · 8.0 / 8 top Bank (113.5)	7.5 (114.0) · 7.2 / 20 (114.3) · 7.0 / 36 (114.5)	+4.0 / 45 (125.5) · +17.5 / 76 (139.0)
20+66				+20.2 / 71 (142.2) · 4.0 / 35 (117.5)	5.2 / 29 top Bank (116.3)		10.1 / 28 Bot Bank (111.4) · 10.5 / 22 ℄ wash (111.0) · 10.2 / 16 Bot Bank (111.3) · 5.5 / 15 top Bank (116.0)	4.8 (116.7) · 4.7 / 20 (116.8) · 4.5 / 39 (117.0)	+1.8 / 45 (123.3) · +25.6 / 93 (147.1)
20+35				+24.3 / 83 (145.8)	+0.5 / 57 (122.0)		2.2 / 45 top Bank (119.3) · 7.5 / 43 Bot Bank (114.0) · 7.1 / 39 (114.4) · 7.1 / 37 (114.4) · 3.6 / 31 (117.9) · 3.3 / 8 (118.2)	4.9 Bot Bank (116.6) · 2.7 / 3 top Bank (118.8) · 1.7 / 31 (119.8)	+2.5 / 43 (124.0) · +6.0 / 44 (127.5) · +28.8 / 80 (150.3)
TP	0.09	120.76 (121.46)	13.32 (13.29)	120.67 (121.37)				π 120.76	π 121.46

Creek X Sec.

23+50 53° Rt ℄ 4" Pine tree

23+42 17° Rt ℄ 10" Pine tree

23+25 17° Rt ℄ 3" Pine tree

23+22 51° Rt ℄ 24" Clump of Eucalyptus

23+16 28° Rt ℄ 8" Pine tree

23+11 43° Rt ℄ 20" Clump of Eucalyptus

23+07 18° Rt ℄ 6" Pine tree

TP	1^{33}	100^{71} (red: 101^{47})	12^{72} (red: 12^{69})	99^{38} (red: 100^{14})

23+00

22+92 33° Rt ℄ 6" Pine tree

22+50

22+12.4 ℄ 15" Cast iron water main

Lt = Wly ℄ Rt = Ely

$+15^{0}$	2^{6}	3^{4}	6^{0}	6^{9}	6^{6}	5^{1}	4^{9}	3^{5}	$+5^{8}$
40	8	04 top	Bot	5 ℄	10 Bot	10 top	50	67	83

π 100^{71} π 101^{47} (red)

$+4^{0}$	0^{5}	8^{1}	13^{1}	13^{3}	15^{7}	15^{2}	14^{6}	13^{4}	12^{6}	10^{8}	9^{9}	5^{3}
35	25	10		2 top	2 Bot	7 ℄	12 Bot	12 top	46	50	70	75

$+5^{0}$	$+1^{6}$	6^{8}	10^{2}	12^{3}	12^{4}	12^{1}	9^{5}	9^{7}	9^{4}	7^{1}	$+3^{4}$
35	28	10	05 top	Bot	5 ℄	10 Bot	10 top	30	50	53	75

10^{91}
top pipe

π 112^{10} π 112.83 (red)

Please note $\frac{7\frac{1}{2}}{100}$ bust in levels somewhere
maybe between benches.
See FB 1787 pg 47 — ℄ ie culvert 87^{92}

$24+50^{23}$ Begin $3^{8} \times 3^{8}$ square con culvert [illegible]

24+00 Begin con bottom + con + rock side walls

23+97 23° Rt ℄ 10" Pepper tree

23+87 56° Rt ℄ 6" Pine tree

23+79 31° Rt ℄ 8" Pine tree

23+73 16° Rt ℄ 4" Pine tree

23+69 43° Rt ℄ 10" Pine tree

23+65 35° Rt ℄ 10" Pine tree

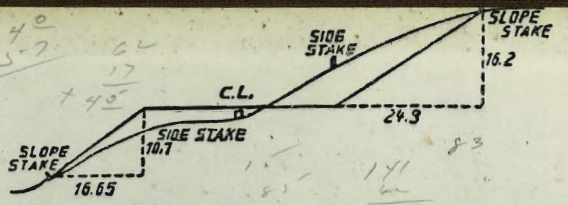
Lt - Wly | ℄ | Rt - Ely

87^{16}
13^{55}
℄

$+\frac{9^{0}}{46}$	$\frac{6^{6}}{23}$	$\frac{6^{85}}{2^{0}}$ top wall @ gd	$\frac{10^{59}}{2^{0}}$ Bot	10^{56}	$\frac{10^{42}}{6^{5}}$ Bot.	$\frac{6^{8}}{6^{5}}$ gd	$\frac{4^{39}}{6^{5}}$ top wall	$\frac{8^{4}}{50}$	$\frac{8^{5}}{66}$	$\frac{2^{0}}{85}$

⊼ 100^{71} ⊼ 101.47

87.91 = F.L. Colo. E. Side 1787/47



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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