3/6
W316

316

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

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INDEX

Profile Levels El Capitan Dam Site

To

Dead end of Existing Lakeside San Diego Pipe Line near Lakeside.

Simpson
Sommermeyer
McCarty

9/21/31

clear - Hot.

1

			570.56 = old B.M. #2	Nail in Sycamore Tree 20' Rt Sta. 11+50
	3.01	573.57		
T.P.			2.04	571.53
	2.85	574.38		
T.P.			0.61	573.77
	4.13	577.90		
T.P.			9.02	568.88
	10.23	579.11		
-7+00			1.2	77.9
			6.2	72.9 — Road Bed opp Sta -7+00
-6+17½			7.4	71.7
-6+00			7.7	71.4
			8.6	70.5 — Road opp -6+00
-5+53			7.3	71.8
-5+00			4.7	74.4
			10.6	68.5 — Rd opp -5+00
-4+67½			5.4	73.7
			25.0	554.1 — IN Stream Bed about on axis of dam 250' Rt. of ℄ of Pipe Line Survey
T.P.			0.60	578.51
	6.13	584.64		
B.M. & T.P. #1			0.19	584.45 Set New — B.M. Nail in 48' Live Oak Tree 25' ℄ of Sta. -6+35
	0.77	585.22		
T.P.			10.36	574.86
	4.63	579.49		
			11.0	68.5 — Rd. opp. -4+67½

County Road Sta ?

		579.49 ✓		
T.P.			1.33	578.16 ✓
	3.40	581.56 ✓		
-4+31			3.9	77.7 ✓
-4+05 58 Δ			3.9	77.7 ✓
-4+00			5.0	76.6 ✓
			8.6	73.0 ✓
-3+82			6.4	75.2 ✓
-3+56			3.0	78.6 ✓
			5.3	76.3 ✓
-3+33			1.8	79.8 ✓
-3+00			6.7	74.9 ✓
			7.2	74.4 ✓
-2+65			4.9	76.7 ✓
-2+36			5.1	76.5 ✓
-2+13			11.0	70.6 ✓
-2+00			11.6	70.0 ✓
			11.6	70.0 ✓
T.P.			9.99	571.57 ✓
	6.49	578.06 ✓		
-1+86			5.7	72.4 ✓
-1+71 0.6 E.C.			5.5	72.6 ✓
-1+31 1			5.2	72.9 ✓
-1+07			3.2	74.9 ✓
-0+91 9			5.2	72.9 ✓
			8.1	70.0 ✓

Rd opp. -4+00

Rd opp. -3+56

Rd. opp -3+00

Rd. opp. -2+00

Rd opp. -0+91 9

Note: Surface Boulder about 6'x6'x10' on ℄ at sta -3+22, not shown on profile

	578.06		
-0+77		4.9	73.2 ✓
-0+70		7.3	70.8 ✓
-0+50		4.9	73.2 ✓
-0+16		0.0	78.1 ✓
-0+00		1.9	76.2 ✓
		5.0	73.1 ✓
T.P.		5.12	572.94 ✓
	5.84	578.78 ✓	
		27.8	551.0 ✓
0+72 1ft		2.1	76.7 ✓
1+00		4.2	74.6 ✓
		9.6	69.2 ✓
+34		6.3	72.5 ✓
+50		5.7	73.1 ✓
+75		6.4	72.4 ✓
2+00		7.6	71.2 ✓
		8.7	70.1 ✓
+25		7.3	71.5 ✓
+51 4.3		6.9	71.9 ✓
T.P.		6.92	571.86 ✓
	1.96	573.82 ✓	
+90		1.3	72.5 ✓
3+05		1.8	72.0 ✓
+12		4.1	69.7 ✓
+21 6		2.4	71.4 ✓

Rd. opp. 0+00

in River channel 130'± Rt of sta. 0+00

Rd. opp sta. 1+00

Note: surface boulder 4'x6'x8' on ℄ at sta 0+28, not shown on profile

Rd. opp. 2+15

	573.82 ✓		
	4.8	69.0 ✓	Rd. opp. 3+20
3+50	2.0	71.8 ✓	
+75	2.2	71.6 ✓	
4+00	3.4	70.4 ✓	
+25	3.4	70.4 ✓	
+50	3.6	70.2 ✓	
	6.6	69.2 ✓	Rd. opp. 4+50
+75	2.1	71.7 ✓	
5+00	2.5	71.3 ✓	
T.P. & B.M. #2	3.22	570.60 ✓ = check on 570.56	B.M.2 Nail in 18" Sycamore 17' Rt. sta. 4+07 Rec. El. = 570.56
10.09	580.65 ✓		
+21.3	9.9	70.8 ✓	
+38	7.5	73.2 ✓	
+48	11.2	69.5 ✓	
+66	10.6	70.1 ✓	
+76	7.0	73.7 ✓	
	12.0	68.7 ✓	Rd. opp. 5+75
+95	4.5	76.2 ✓	
6+00	8.9	71.8 ✓	
+25	10.7	70.0 ✓	
+45	10.7	70.0 ✓	
+50	4.6	76.1 ✓	
	10.4	70.3 ✓	Rd. opp. 6+50
+75	4.1	76.6 ✓	
7+00	4.7	76.0 ✓	

65 ~.7

	580.65 ✓		
7+35		7.2	73.5 ✓
+50		10.3	70.4 ✓
+57		8.0	72.7 ✓
+75		12.7	68.0 ✓
+78		9.3	71.4 ✓
+85		8.5	72.2 ✓
8+00		+5.0	585.6 ✓
T.P.		12.92	567.73 ✓
	4.37	572.10 ✓	
		6.2	65.9 ✓
+08		0.0	72.1 ✓
+16		1.3	70.8 ✓
+28		5.6	66.5 ✓
+50		1.0	71.1 ✓
+63		5.8	76.3 ✓
9+01 39 — A		3.3	68.8 ✓
		6.3	65.8 ✓
+52		2.6	69.5 ✓
10+00		5.4	66.7 ✓
		8.1	64.0 ✓
+20		8.0	64.1 ✓
+40		12.3	59.8 ✓
		25.8	546.3 ✓
+55		9.8	62.3 ✓

at Foot of Large Boulder

Top of Large Boulder (by Hand Level)

Rd, opp. 8+00

at Foot of Large Boulder

Rd. opp. 9+25

Rd. opp. 10+00

IN River channel 200'± Rt. of sta. 10+00

		572.10		
10+77		7.4	64.7 ✓	
11+00		6.9	65.2 ✓	
		8.6	63.5 ✓	Rd opp. 11+00
+33.8	Ext	5.4	66.7 ✓	
T.P		5.41	566.69 ✓	
	3.83	570.52 ✓		
+73.8	E.C.	4.5	66.0 ✓	
12+00		3.8	66.7 ✓	
		6.2	64.3 ✓	Rd opp 12+00
+25		2.6	67.9 ✓	
+50		6.3	64.2 ✓	
+75		6.4	64.1 ✓	
13+00		4.6	65.9 ✓	
		6.4	64.1 ✓	Rd. opp. 12+75
T.P.		3.07	567.45 ✓	
	5.61	573.06 ✓		
B.M. #3		0.34	572.72' Set new 572.71 ← use	B.M., Highest point of large Boulder (10'x10'x5'), 22' Rt. of Sta 13+37
+50		1.5	71.6 ✓	
+64		3.4	69.7 ✓	
+75		1.7	71.4 ✓	
		4.4	68.7 ✓	Rd. opp. 13+75
14+00		3.8	69.3 ✓	
+20		5.1	68.0 ✓	
+50		5.4	67.7 ✓	
+75		5.3	67.8 ✓	

		573.06		
15+00			2.2	70.9 r
			5.0	68.1 r
				Rd. opp. 15+00
+25			1.8	71.3 r
+50			4.4	68.7 r
+75			3.6	69.5 r
16+00			3.1	70.0 r
			3.1	70.0 r
				Rd. opp. 16+00
T.P.			2.07	570.99 r
	12.72	583.71 r		
+25			8.3	75.4 r
+50			5.8	77.9 r
17+00			2.2	81.5 r
			9.3	74.4 r
				Rd opp. 17+00
+25			2.7	81.0 r
+44			0.2	83.5 r
+50			2.7	80.8 r
			4.8	78.9 r
				Rd. opp. 17+50
T.P.			0.77	582.94 r
	12.02	594.96 r		
+75			10.5	84.5 r
18+00			8.4	86.6 r
+25			7.2	87.8 r
			12.8	82.2 r
				Rd. opp. 18+25
+55			4.4	90.6 r
+75			2.0	93.0 r

		594.96 ✓	
19+00		5.4	89.6 ✓
+25		+0.3	595.3 ✓
		4.6	90.4 ✓
+50		0.3	94.7 ✓
+71.6		1.3	93.7 ✓
20+00		3.3	91.7 ✓
+25		3.8	91.2 ✓
+75		9.1	85.9 ✓
21+00		10.3	84.7 ✓
+25		10.6	84.4 ✓
+50		10.2	584.8 ✓
		54.5	540.5 ✓
T.P.		12.58	582.38 ✓
	0.10	582.48 ✓	
		1.8	80.5 ✓
		9.1	73.4 ✓
21+75		1.6	580.9 ✓
T.P.		11.18	571.30 ✓
	0.75	572.05 ✓	
22+00		+6.0	578.0 ✓
+03		0.3	71.8 ✓
+38		4.2	67.9 ✓
+76		7.1	65.0 ✓
23+14		9.1	63.0 ✓
		4.4	67.7 ✓

Rd. opp. 19+35

In River Channel 100± Rt. of Sta. 20+00.
T.P. ON Boulder Rt. Side of Rd. Sta 19+60

Rd. opp 20+50
" " 21+50

Rd. opp. 22+40

		572.05		
23+85			11.7	60.4 ✓
24+00			11.2	60.9 ✓
+08	68	B.C.	10.5	61.6 ✓
+25			10.9	61.2 ✓
			11.4	60.7 ✓
T.P.			12.69	559.36 ✓
	10.11	569.47 ✓		
+50			8.6	60.9 ✓
+75			8.6	60.9 ✓
			10.4	59.1 ✓
25+01			8.2	61.3 ✓
			10.9	58.6 ✓
+50			7.8	61.7 ✓
+73			5.8	63.7 ✓
26+00			4.9	64.6 ✓
			0.59	568.88' = check on
B.M. # 4 & T.P.			0.59	568.88' set New
	0.04	568.92 ✓		
			7.8	61.1 ✓
+17			5.9	63.0 ✓
+22			8.3	60.6 ✓
+41			9.0	59.9 ✓
+66			8.5	60.4 ✓
27+00			10.0	58.9 ✓
T.P.			12.40	556.52 ✓

Rd opp 23+60

Rd. opp. 24+25

Rd opp. 25+25

Old B.M. # 4 El. = 568.84

B.M. Nail in S. side of 24" Oak Tree 18' L of sta. 25+53 ✓

Rd opp. 26+00

		556.52 ✓	
	0.56	557.08 ✓	
		1.7 55.4 ✓	Rd. opp. 27+00
27+51		0.9 56.2 ✓	
+93		2.4 54.7 ✓	
		4.7 52.4 ✓	Rd opp. 28+05
28+35	C.L.	3.0 54.1 ✓	
+75		2.8 54.3 ✓	
29+00		4.5 52.6 ✓	
+28		4.1 53.0 ✓	
+50		4.2 52.9 ✓	
		6.2 50.9 ✓	Rd. opp. 29+50
+75		4.6 52.5 ✓	
30+00		5.2 51.9 ✓	
T.P.		5.12 551.96 ✓	on E.C Hub 30+09.5
	4.76	556.72 ✓	
		22.3 534.4 ✓	= in River channel 125' ± Rt of sta 30+00
+33		5.0 51.7 ✓	
+38		2.3 54.1 ✓	
+50		5.0 51.7 ✓	
+75		6.9 49.8 ✓	
+89		2.8 53.9 ✓	
31+00		5.2 51.5 ✓	
+16		1.2 55.5 ✓	
+33	68	1.7 55.0 ✓	

	556.72 ✓		
31+50		6.8	49.9 ✓
		7.5	49.2 ✓
		8.8	47.9 ✓
+75		5.0	51.7 ✓
32+00		6.1	50.6 ✓
+16		7.0	49.7 ✓
+60		5.1	51.6 ✓
+68		3.0	53.7 ✓
+95 5		5.9	50.8 ✓
		7.6	49.1 ✓
T.P.		7.66	549.06 ✓
	2.63	551.69 ✓	
33+11		+2.5	554.2 ✓
+31		1.3	550.4 ✓
+53		0.2	551.5 ✓
		2.4	549.3 ✓
+67		+0.3	552.0 ✓
+98 5		5.7	546.0 ✓
34+25 9		5.9	545.8 ✓
		8.2	543.5 ✓
+64		5.2	546.5 ✓
T.P.		7.67	544.02 ✓
	0.85	544.87 ✓	
+66		0.5	544.4 ✓
+72		2.2	542.7 ✓

Rd opp 30+50

" " 31+50

Rd. opp. 32+95

Rd. opp. 33+31

Rd opp 34+25

ON Boulder 15 Rt 34+75 at N. edge of Rd.

Note: Adjusted Level Here

Simpson
Sommermeyer
McCarty

9/22/31

clear - Hot.

		544.87 ✓	
34+93		2.2	42.7 ✓
+98		+0.4	545.3 ✓
35+13		3.6	41.3 ✓
+57		4.9	40.0 ✓
		3.8	41.1 ✓
+65		3.2	41.7 ✓
+70		4.9	40.0 ✓
36+00		3.5	41.4 ✓
+05		5.7	39.2 ✓
+15		6.2	38.7 ✓
+16		4.8	40.1 ✓
+50		5.9	39.0 ✓
+72		5.6	39.3 ✓
+75		3.5	41.4 ✓
		6.3	38.6 ✓
		6.0	38.9 ✓
37+00		4.2	40.7 ✓
B.M. & T.P. #5		4.07	540.80 ✓ Set new
	1.59	542.39 ✓	
+25		1.8	40.6 ✓
		4.0	38.4 ✓
+50		0.8	41.6 ✓
+75		1.9	40.5 ✓
		5.6	36.8 ✓
38+00		2.2	40.2 ✓

Rd opp. 35+40

Rd. opp 36+25

" " 36+50

B.M. #5, Nail in 16" Tree 17' Rt of Sta 37+50

Rd opp. 37+35

Rd. opp. 37+90

	542.39 ✓		
38+25		2.7	39.7 ✓
+50		3.0	39.4 ✓
		4.7	37.7 ✓
+91		2.8	39.6 ✓
39+17		2.7	39.7 ✓
+32		1.7	40.7 ✓
+52		2.4	40.0 ✓
+75		1.4	41.0 ✓
+94		1.1	41.3 ✓
		+2.2	544.7 C ✓
		5.9	36.5 ✓
		13.4	529.1 ✓
T.P.		5.66	536.73 ✓
	3.37	540.10 ✓	
40+05		0.6	39.5 ✓
		4.4	35.7 ✓
+25		1.7	38.4 ✓
+30		1.0	39.1 ✓
+50		1.7	38.4 ✓
+75		0.6	39.5 ✓
+80		2.1	38.0 ✓
41+00		3.0	37.1 ✓
+25		3.3	36.8 ✓
+35		3.0	37.1 ✓
+50		2.9	37.2 ✓

Rd opp. 38+50

Foot of Large Boulder

Top of " "

Rd. opp 39+60

in River channel 125'± Rt. of 40+00

Rd opp. 40+20

		540.10		
		4.1	36.0 ✓	Rd. opp. 41+50
41+67		3.7	36.4 ✓	
+70		2.6	37.5 ✓	
+90		5.4	34.7 ✓	
42+20		5.7	34.4 ✓	
+21		4.3	35.8 ✓	
		6.0	34.1 ✓	Rd opp 42+25
+52		6.8	33.3 ✓	Foot of large Boulder
+58		0.2	39.9 ✓	Top " " "
+63		1.5	38.6 ✓	" " " "
+64		3.7	36.4 ✓	Foot of large Boulder
+75		3.5	36.6 ✓	
+78		2.1	38.0 ✓	
43+00		2.0	38.1 ✓	
		7.5	32.6 ✓	Rd opp 42+70
		6.9	33.2 ✓	" " 43+20
T.P.		6.64	533.46 ✓	
	9.88	540.34 ✓		
+50		5.2	38.1 ✓	
+75		6.5	36.8 ✓	
		6.2	37.1 ✓	Rd. opp 43+65
44+00		4.4	38.9 ✓	
+20		3.0	40.3 ✓	
+50		3.0	40.3 ✓	
+75		3.3	40.0 ✓	

Note: Loose Boulder (3'x6'x4') on ℄ at Sta 42+41, not shown in profile

		543.34 ✓		
		5.1	38.2 ✓	Rd. opp. 44+75
44+92		3.9	39.4 ✓	
45+00		5.4	37.9 ✓	
+25		6.2	37.1 ✓	
+75		6.8	36.5 ✓	
46+00		7.0	36.3 ✓	
		6.8	36.5 ✓	Rd. opp. 46+00
T.P.		7.01	536.33 ✓	
	4.16	540.49 ✓		
B.M. #6		0.80	539.69 ✓ = check	on old B.M. #6 nail in oak Tree 25' Rt. of Sta. 46+50
46+50		4.4	36.1 ✓	Rec. El. = 539.62 (use for new B.M.)
47+00		4.5	36.0 ✓	
+25		5.1	35.4 ✓	
		4.5	36.0 ✓	Rd. opp. 47+25
+50		4.3	36.2 ✓	
48+00		4.8	35.7 ✓	
+55		4.5	36.0 ✓	
		4.5	36.0 ✓	Rd. opp. 48+50
T.P.		2.62	537.87 ✓	
	3.27	541.14 ✓		
+75		1.4	39.7 ✓	
49+00		2.6	38.5 ✓	
+20		0.8	40.3 ✓	
		3.0	38.1 ✓	Rd. opp. 49+20
+60		6.1	35.0 ✓	

	541.14 ✓		
		6.2	34.9 ✓
50+00		6.8	34.3 ✓
+25		7.0	34.1 ✓
+50		6.9	34.2 ✓
		16.8	524.4 ✓
+75		6.9	34.2 ✓
51+00		6.4	34.7 ✓
+25		7.4	33.7 ✓
+50		7.2	33.9 ✓
		8.0	33.1 ✓
T.P.		7.92	533.22 ✓
	2.41	535.63 ✓	
+75		1.3	34.3 ✓
52+00		0.9	34.7 ✓
		3.6	32.0 ✓
+40		2.1	33.5 ✓
+75		2.7	32.9 ✓
53+00		2.8	32.8 ✓
+18		5.5	30.1 ✓
+35		1.8	33.8 ✓
		5.9	29.7 ✓
		8.0	27.6 ✓
T.P.		0.34	535.29 ✓
	11.89	547.18 ✓	
+90		7.1	40.1 ✓

Rd. opp 49+70

IN River channel 110' ℄ Rt. of Sta. 50+00

Rd. opp. 51+50

Note: Loose Boulder 4'x5'x6' on ℄ at Sta. 51+54, not shown in profile

Rd opp 52+30

Rd opp 53+70

" " 54+60

	547.18 ✓		
54+25	8.4	38.8 ✓	
+50	7.9	39.3 ✓	
+75	9.1	38.1 ✓	
55+00	10.1	37.1 ✓	
	1.11	546.07 ✓ check on	old B.M. #7 - Rec. El. = 546.03
T.P.	12.13	535.05 ✓	
	3.31	538.36 ✓	
+45	4.0	34.4 ✓	
+96	3.5	34.9 ✓	
	7.7	30.7 ✓	Rd. opp. 55+60
	7.4	31.0 ✓	" " 56+00
56+35	7.7	30.7 ✓	
+75	7.6	30.8 ✓	
57+00	5.7	32.7 ✓	
	7.1	31.3 ✓	Rd. opp. 57+00
+35	5.4	33.0 ✓	
+75	5.6	32.8 ✓	
+90	6.8	31.6 ✓	
58+15	4.4	34.0 ✓	
+50	4.0	34.4 ✓	
	6.9	31.5 ✓	Rd opp. 58+00
+75	3.6	34.8 ✓	
59+00	2.8	35.6 ✓	
	6.7	31.7 ✓	Rd. opp. 59+00
B.M. & T.P. #7	1.13	537.23 ✓ Set NEW	B.M. Nail in 18" Oak Tree 31'L of sta 56+90

				537.23 ✓	
	0.32	537.55 ✓			
T.P.			6.17	531.38 ✓	
	4.33	535.71 ✓			
59+25			1.9	33.8 ✓	
+55			2.0	33.7 ✓	
+75			3.7	32.0 ✓	
60+00			2.1	33.6 ✓	
			5.2	30.5 ✓	Rd. opp. 59+85
+15			1.4	34.3 ✓	
			15.3	520.1 ✓	In River channel 80' Rt. of Sta. 60+00
+50			2.1	33.6 ✓	
+75			0.5	35.2 ✓	
T.P.			3.70	532.01 ✓	
	7.43	539.44 ✓			
61+00			4.0	35.4 ✓	
			7.4	32.0 ✓	Rd. opp. 61+00
+35			5.3	34.1 ✓	
+75			4.6	34.8 ✓	
62+25			4.0	35.4 ✓	
			4.5	34.9 ✓	Rd. opp. 62+25
+45			2.5	36.9 ✓	
T.P.			0.53	538.91 ✓	
	8.91	547.82 ✓			
+53			4.0	43.8 ✓	

	547.82 ✓			
62+75		3.1	44.7 ✓	
63+00		1.4	46.4 ✓	
+20		1.1	46.7 ✓	
		7.5	40.3 ✓	Rd. opp. 62+85
		5.0	42.8 ✓	" " 63+45
+50		1.7	46.1 ✓	
+70		1.5	46.3 ✓	
64+00		3.7	44.1 ✓	At. Foot of Large Boulder
+05		+0.6	548.4 ✓	Top. " " "
+10		2.4	45.4 ✓	Foot " " "
+35		3.1	44.7 ✓	
		5.3	42.5 ✓	Rd. opp. 64+35
+58		0.9	46.9 ✓	
		3.6	44.2 ✓	Rd. opp. 64+65
+70		0.4	47.4 ✓	
65+00		+0.3	548.2 ✓	
T.P.		3.28	544.54 ✓	
	7.02	551.56 ✓		
+20		3.2	48.4 ✓	
		7.3	44.3 ✓	Rd. opp. 65+25
+48		1.5	50.1 ✓	
+70		2.9	48.7 ✓	
66+00		5.3	46.3 ✓	
+50		4.5	47.1 ✓	
		5.4	46.2 ✓	Rd. opp. 66+40

		551.56 ✓		
66+75			6.2	545.4 ✓
67+00			6.7	544.9 545.0 ✓
+50			9.6	542.0 ✓
+85±			11.6	540.0 ✓
B.M. #8			3.13	548.43 ✓ Set new
T.P.			12.37	539.19 ✓
	0.19	539.38 ✓		
68+25			2.8	536.6 ✓
			0.0	539.4 ✓
+60			5.4	534.0 ✓
+75			3.8	535.6 ✓
+95			7.9	531.5 ✓
			7.8	531.6 ✓
69+25			9.2	530.2 ✓
+75			10.9	528.5 ✓
			10.9	528.5 ✓
70+00			11.5	527.9 ✓
T.P.			11.16	528.22 ✓
	6.00	524.22 ✓		
			18.8	515.5
T.P.			6.00	528.22 ✓
	7.75	535.97 ✓		
+50			8.8	527.2 ✓
71+00			8.9	527.1 ✓
			8.8	527.2 ✓

= Rd. opp. 67+80

= Rd opp. 69+00

Rd opp. 69+75

IN River channel 250'± Rt of sta. 70+00

Rd. opp. 71+00

B.M., nail in 16" oak tree, 22' L of sta. 66+77

		535.97 ✓	
71+50		6.9	29.1 ✓
72+08		3.8	32.2 ✓
+25		1.9	34.1 ✓
+50		1.3	34.7 ✓
		1.6	34.4 ✓ Rd opp. 72+50
+75		1.2	34.8 ✓
73+00		2.9	33.1 ✓
+35		4.1	31.9 ✓
		5.8	30.2 ✓ Rd opp 73+45
+57		3.1	32.9 ✓
+80		2.5	33.5 ✓
		5.4	30.6 ✓ Rd. opp. 73+80
74+00		4.2	31.8 ✓
T.P.		6.78	529.19 ✓
	1.97	531.16 ✓	
+25		0.6	30.6 ✓
		2.0	29.2 ✓ Rd opp. 74+25
+50		2.8	28.4 ✓
		3.8	27.4 ✓ Rd opp. 74+50
75+00		2.4	28.8 ✓
+30		2.4	28.8 ✓
		3.0	28.2 ✓ Rd opp. 75+30
+75		5.1	26.1 ✓
76+35		7.4	23.8 ✓
		7.4	23.8 ✓ Rd opp. 76+35

	531.16 ✓		
76+75		7.9	23.3 ✓
77+00		8.0	23.2 ✓
+25		8.1	23.1 ✓
		8.4	22.8 ✓ Rd opp. 77+25
+50		7.5	23.7 ✓
+70		6.1	25.1 ✓
+80		2.2	29.0 ✓
		8.8	22.4 ✓ Rd, opp. 77+80
B.M. #9 & T.P.		6.08	525.08 ✓ Set New B.M., Nail in Fork of 30" oak Tree, 30' Rt of Sta. 77+08
	1.35	526.43 ✓	
		6.3	20.1 ✓ Rd. opp. 78+65
		5.9	20.5 ✓ Rd. opp 79+50
		5.4	21.0 ✓ " " 80+00
T.P.		5.55	520.88 ✓
	10.19	531.07 ✓	
		19.0	512.1 ✓ in River channel 60' Rt of Sta. 80+00
		7.0	24.1 ✓ Rd. opp. 80+60
		5.2	25.9 ✓ " " 81+30
		5.6	25.5 ✓ " " 82+40
		4.9	26.2 ✓ " " 83+30
T.P.		4.93	526.14 ✓
	8.05	534.19 ✓	
		8.5	25.7 ✓ Rd. opp 83+80
		6.3	27.9 ✓ " " 84+25
		5.1	29.1 ✓ " " 84+75

	534.19 ✓		
	0.8	533.4 ✓	Rd. opp. 85+40
	7.33	526.86 ✓ = check	on U.S.G.S. Gaging station marked El. 529.85
			Brass plug set in Large Boulder 30' Rt. of Sta. 84+20
B.M. #9		525.08 ✓ Nail in Fork	of 30" oak Tree, 30' Rt of Sta. 77+08
	9.85 534.93 ✓		
78+05	4.7	30.2 ✓	
+30	7.1	27.8 ✓	
+60	5.4	29.5 ✓	Foot of Large Boulder
T.P	1.49	533.44 ✓ on Rock	Sta 78+62
	10.73 544.17 ✓		
T.P.	1.57	542.60 ✓	
	8.27 550.87 ✓		
	3.49	547.38 ✓ = check	on old B.M. #10 Nail in oak Tree 25'L of Sta. 78+50
			Rec. El. = 547.37
		533.44 ✓ T.P. Rock	78+62
	4.51 537.95 ✓		
78+70	0.6	37.4 ✓	
+79	6.6	31.4 ✓	
79+00	7.5	30.5 ✓	
+30	7.7	30.3 ✓	
+40	4.4	33.6 ✓	
+65	6.9	31.1 ✓	

		537.95		
79+85			8.6	29.4 ✓
80+00			12.0	26.0 ✓
+10			8.2	29.8 ✓
+49			4.1	33.9 ✓
+60			8.4	29.6 ✓
T.P.			0.26	537.69 ✓
	9.07	546.76 ✓		
+72			12.1	34.7 ✓
81+04			8.8	38.0 ✓
+45			9.2	37.6 ✓
+69			6.5	40.3 ✓
+75			12.2	34.6 ✓
T.P.			5.54	541.22 ✓
	6.12	547.34 ✓		
82+07			5.2	42.1 ✓
+17			8.7	38.6 ✓
+24			6.4	40.9 ✓
+45			12.2	35.1 ✓
+73			7.1	40.2 ✓
+95			6.6	40.7 ✓
83+15			13.17	34.17 ✓
83+38			5.3	42.0 ✓
T.P.			8.89	538.45 ✓
	1.69	540.14 ✓		
+62			0.0	40.1 ✓

Nail in oak stump on ℄ at sta 80+50

ON P.I. Hub sta. 83+49 52

Jimpson
Sommermeyer
Mccarty

9/23/31

clear - warm

	540.14		
83+70		13.8	26.3 ✓
+87		2.8	37.3 ✓
+94		8.5	31.6 ✓
84+32		5.4	34.7 ✓
+40		10.8	29.3 ✓
+79		1.5	38.6 ✓
+91		3.0	37.1 ✓
+94		8.2	31.9 ✓
85+00		8.3	31.8 ✓
+17		3.1	37.0 ✓
T.P.		0.95	539.19 ✓
	13.26	552.45 ✓	
+41		5.3	47.2 ✓
+78		1.8	50.7 ✓
86+09	e.c.	6.5	46.0 ✓
		4.1	48.4 ✓
T.P.		1.24	551.21 ✓
	12.48	563.69 ✓	
+18		11.2	52.5 ✓
+50		8.5	55.2 ✓
+78		5.2	58.5 ✓
+95		10.6	53.1 ✓
87+40		3.0	60.7 ✓
+65		1.9	61.8 ✓
		13.4	50.3 ✓

Rd opp. 86+90

Rd. opp. 87+70

		563.69 ✓		
88+00		3.8	59.9 ✓	
+18		7.9	55.8 ✓	
+25		11.4	52.3 ✓	
T.P.		12.75	550.94 ✓	Peg 6'L 88+70
	0.28	551.22 ✓		
+70		6.4	44.8 ✓	
		2.6	48.6 ✓	Rd. opp. 88+00
		13.2	38.0 ✓	" " 89+00
89+00		9.1	42.1 ✓	
+07		7.0	44.2 ✓	
+35		8.3	42.9 ✓	
+60		9.0	42.2 ✓	
+70		10.8	40.4 ✓	
T.P		12.70	538.52 ✓	
	0.47	538.99 ✓		
		4.0	35.0 ✓	Rd. opp 89+40
B.M. #10		5.57	533.42 ✓ Set New	B.M., Nail in 24" oak Tree, 25'R 89+50
+95		10.2	28.8 ✓	
		12.4	26.6 ✓	Rd. opp. 90+10
90+50		15.9	23.1 ✓	
		30.2	508.9 ✓	IN River Channel 70'± Rt. of Sta. 90+00
+92		11.8	27.2 ✓	
91+18		11.9	27.1 ✓	
T.P.		13.04	525.95 ✓	ON P.I Hub 91+18 ±
	1.43	527.38 ✓		

	527.38			
		6.0	21.4 ✓	Rd. opp. 90+75
		9.1	18.3 ✓	" " 91+60
91+43		3.1	24.3 ✓	
+63		5.1	22.3 ✓	
+97.5		6.8	20.6 ✓	
92+22		7.3	20.1 ✓	
		9.7	17.7 ✓	Rd. opp. 92+22
T.P.		9.82	517.56 ✓	
	12.35	529.91 ✓		
+50		9.3	20.6 ✓	
+75		8.7	21.2 ✓	
93+00		8.6	21.3 ✓	
+25		7.8	22.1 ✓	
		11.4	18.5 ✓	Rd. opp. 93+00
+50		7.6	22.3 ✓	
+89		1.8	28.1 ✓	Note: Loose Boulder
94+27		2.9	27.0 ✓	6'x6'x5', on ℄ of sta
		4.6	25.3 ✓	Rd. opp. 93+90 94+16, not shown
+60		0.5	29.4 ✓	in profile
95+00		4.1	25.8 ✓	
		0.9	29.0 ✓	Rd. opp. 94+48
		4.0	25.9 ✓	" " 95+00
+50		5.1	24.8 ✓	
+94		2.3	27.6 ✓	
T.P.		2.52	527.39	on P.I. Hub 95+93.81

		527.39		
	1.06	528.45 ✓		
96+22 ³			2.4	26.1 ✓
			3.7	24.8 ✓ Rd. opp. 95+90
			5.8	22.7 ✓ " " 96+40
+45			4.8	23.7 ✓
97+00			4.1	24.4 ✓
+48			3.6	24.9 ✓
			4.7	23.8 ✓ Rd. opp. 97+50
98+00			6.9	21.6 ✓
+50			9.6	18.9 ✓
			9.9	18.6 ✓ Rd. opp. 98+50
T.P.			10.27	518.18 ✓
	2.31	520.49 ✓		
99+00			3.0	17.5 ✓
+50			3.5	17.0 ✓
			4.6	15.9 ✓ Rd. opp. 99+50
100+00			1.6	18.9 ✓
+15			1.5	19.0 ✓
+50			2.5	18.0 ✓
B.M. #11			3.00	517.49 ✓ Set New B.M., Nail in N. side of 6" oak Tree 18' Rt. of Sta. 100+40
101+00			3.3	17.2 ✓
+25			2.9	17.6 ✓
			4.1	16.4 ✓ Rd opp. 101+10
+50			1.9	18.6 ✓
+75			4.5	16.0 ✓

		520.49	
102 +00		4.5	16.0 ✓
		5.4	15.1 ✓
+25		4.1	16.4 ✓
T.P.		3.86	516.63 ✓
	0.73	517.36 ✓	
103+00		0.3	17.1 ✓
+25		2.0	15.4 ✓
+50		3.1	14.3 ✓
104+00		4.9	12.5 ✓
		5.0	12.4 ✓
105+00		6.4	11.0 ✓
106+00		6.6	10.8 ✓
		6.6	10.8 ✓
107+00		8.3	09.1 ✓
+19		7.9	09.5 ✓
T.P.		7.72	509.64 ✓
	5.42	515.06 ✓	
+40		6.8	08.3 ✓
		12.2	502.9 ✓ 503.0
+65		7.0	08.1 ✓
108+00		5.9	09.2 ✓
+50		4.9	10.2 ✓
109+00		4.9	10.2 ✓
+50		5.0	10.1 ✓
110+00		4.8	10.3 ✓

Rd. opp. 102+10

on E.C. Hub 102+41.39

= Rd opp. 104+00

Rd. opp. 106+00

on High point of Boulder (2'x5') 23' Rt. 107+50

Note: ℄ runs along edge of Road Here

in River channel 50'± Rt. of Cape Horn, sta. 107+25

	515.06 ✓		
110+50		4.8	10.3 ✓
B.M. #12 & T.P.		0.63	514.43 ✓ Set new B.M., nail in S.W.? fork of 40" oak tree, 51' Rt of 110+28
	0.46	514.89 ✓	
+84		4.0	10.9 ✓
		4.7	10.2 ✓ Rd. opp. 110+84
111+10		4.6	10.3 ✓
+50		4.8	10.1 ✓
112+00		5.0	09.9 ✓
+50		5.2	09.7 ✓
113+00		5.9	09.0 ✓
		6.0	08.9 ✓ Rd. opp. 113+00
+50		6.0	08.9 ✓
114+00		6.2	08.7 ✓
+50		6.4	08.5 ✓
115+00		6.6	08.3 ✓ Note: See Page 76
T.P.		6.06	508.83 ✓ on Marker 115+00 for water line Xing &
	3.36	512.19 ✓	
		4.1	08.1 ✓ Rd opp. 115+00
+50		4.3	07.9 ✓
116+00		4.4	07.8 ✓
+50		4.6	07.6 ✓
117+00		4.6	07.6 ✓
+50		4.7	07.5 ✓
		4.4	07.8 ✓ Rd. opp. 117+00
118+00		4.7	07.5 ✓

	512.19			
118+50		4.6	07.6 ✓	
119+00		4.6	07.6 ✓	
		5.1	07.1 ✓	Rd. opp. 119+00
+50		5.3	06.9 ✓	
120+00		6.1	06.1 ✓	
+50		6.2	06.0 ✓	
121+00		6.5	05.7 ✓	
		6.8	05.4 ✓	Rd. opp. 121+00
B.M. #13 & T.P.		3.86	508.33 Set Nail	B.M. Nail in 30" oak Tree 40' Rt. of 118+70
	1.18	509.51 ✓		
+37		3.6	05.9 ✓	
122+00		4.2	05.3 ✓	
+50		4.2	05.3 ✓	
123+00		4.4	05.1 ✓	
		4.5	05.0 ✓	Rd. opp. 123+00
+50		3.7	05.8 ✓	
124+00		3.9	05.6 ✓	
+50		4.3	05.2 ✓	
125+00		4.5	05.0 ✓	
		4.6	04.9 ✓	Rd opp. 125+00
T.P.		4.74	504.77 ✓	
	2.85	507.62 ✓		

	507.62		
125+50	3.1	04.5 ✓	
126+00	3.1	04.5 ✓	
+50	3.8	03.8 ✓	
127+00	4.0	03.6 ✓	
	4.2	03.4 ✓	Rd. opp. 127+00
+50	4.3	03.3 ✓	
128+00	4.7	02.9 ✓	
+50	4.8	02.8 ✓	
129+00	5.1	02.5 ✓	
	4.8	02.8 ✓	Rd. opp. 129+00
+40 △	4.9	02.7 ✓	
130+00	5.3	02.3 ✓	
+50	5.6	02.0 ✓	
131+00	5.4	02.2 ✓	
	5.5	02.1 ✓	Rd. opp. 131+00
+50	5.4	02.2 ✓	
132+00	5.6	02.0 ✓	
+23	5.7	01.9 ✓	
B.M.# 14	4.00	503.62 ✓ Set New B.M., Nail in 30" oak Tree 12'L of Sta. 131+63	
T.P.	6.08	501.54 ✓	
	4.75	506.29 ✓	
+50	4.5	01.8 ✓	
+75	4.4	01.9 ✓	
133+00	4.5	01.8 ✓	
	4.9	01.4 ✓	Rd. opp. 133+00

		506.29		
133+25			4.8	501.5 ✓
+38			4.7	01.6 ✓
+60			3.6	02.7 ✓
+94			501.6	Top of 12" concr. water pipe
134+00			4.8	01.5 ✓
+50			5.1	01.2 ✓
			4.9	01.4 ✓ Rd. opp. 134+35
135+00			4.0	02.3 ✓
+55			2.2	04.1 ✓
			1.8	04.5 ✓ Rd. opp. 135+55
+75			0.9	05.4 ✓
T.P.			0.56	505.73 ✓
	12.10	517.83 ✓		
136+00			11.0	06.8 ✓
+25			9.2	08.6 ✓
+50			7.9	09.9 ✓
+75			5.5	12.3 ✓
137+00			3.1	14.7 ✓
			6.0	11.8 ✓ Rd opp. 137+00
+25			2.9	14.9 ✓
+60			2.4	15.4 ✓
T.P.			0.35	517.48 ✓
	11.03	528.51 ✓		
138+00			9.5	19.0 ✓
			10.6	17.9 ✓ Rd. opp. 138+00
+20			7.7	20.8 ✓

	528.51 ✓			
138+40		6.5	22.0 ✓	
		7.8	20.7 ✓	Rd. opp. 138+50
+60		7.1	21.4 ✓	
+80		6.1	22.4 ✓	
139+00		4.7	23.8 ✓	
+20		3.8	24.7 ✓	
		3.8	24.7 ✓	Rd. opp. 139+25
+30		3.9	24.6 ✓	
+75		4.2	24.3 ✓	
140+00		4.0	24.5 ✓	
+25		3.4	25.1 ✓	
+50		3.7	24.8 ✓	
		4.1	24.4 ✓	Rd. opp. 140+50
+75		4.0	24.5 ✓	
141+00		5.3	23.2 ✓	
		5.1	23.4 ✓	Rd opp. 141+00
+25		6.2	22.3 ✓	
+50		7.9	20.6 ✓	
142+00		11.3	17.2 ✓	
T.P.		12.53	515.98 ✓	
	7.47	523.45 ✓		
B.M. #15 & T.P.		3.33	520.12 ✓ Set New	B.M., Nail in 14" oak Tree, 40' Rt of Sta. 141+60
	3.33	523.45 ✓		
T.P.		7.47	515.98 ✓	
	0.59	516.57 ✓		

516.57 ✓

142+50		2.7	13.9 ✓
143+00		5.7	10.9 ✓
+50		8.2	08.4 ✓
144+00		9.2	07.4 ✓
+50		9.5	07.1 ✓
T.P.		9.64	506.93 ✓
	2.55	509.48 ✓	
145+00		3.2	06.3 ✓
+50		3.6	05.9 ✓
146+00		4.5	05.0 ✓
+50		5.0	04.5 ✓
147+00		4.8	04.7 ✓
+50		4.4	05.1 ✓
+75		4.2	05.3 ✓
148+00		4.2	05.3 ✓
+25		4.5	05.0 ✓
+50		4.8	04.7 ✓
T.P.		4.64	504.84 ✓
	2.61	507.45 ✓	
149+00		3.9	03.6 ✓
+50		5.7	01.8 ✓
150+00		6.6	00.9 ✓
+50		6.9	00.6 ✓
151+00		5.8	01.7 ✓
+50		4.2	03.3 ✓

		507.45 ✓		
152+00		3.4	04.1 ✓	
+50		2.4	05.1 ✓	
+87		1.8	05.7 ✓	
153+25		2.6	04.9 ✓	
T.P.		2.12	505.33 ✓	
	3.38'	508.71 ✓		
B.M. # 16		7.62	501.09 ✓	Set New B.M., Nail in S.E. Sycamore of [clump of 3] 37'R. of Sta. 153+35
+46		4.5	04.2 ✓	
+75		4.9	03.8 ✓	
154+00		4.8	03.9 ✓	
+25		4.7	04.0 ✓	
+50		4.6	04.1 ✓	
+75		4.6	04.1 ✓	
155+00		5.2	03.5 ✓	
T.P.		4.74	503.97 ✓	
	1.80	505.77 ✓		
+25		2.5	03.3 ✓	
+50		2.4	03.4 ✓	
+82		2.4	03.4 ✓	
156+05		2.5	03.3 ✓	
+28		2.8	03.0 ✓	
+50		2.6	03.2 ✓	
+85		3.3	02.5 ✓	
157+00		3.9	01.9 ✓	
+46		4.7	01.1 ✓	

		505.77 ✓	
157+98		4.3	501.5 ✓
158+22.5		4.2	01.6 ✓
+46.5		4.8	01.0 ✓
+80		5.5	00.3 ✓
159+13		5.9	499.9 ✓
+25		5.9	499.9 ✓
+50		5.5	500.3 ✓
T.P.		4.45	501.32 ✓
	6.51	507.83 ✓	
+75		7.5	500.3 ✓
160+19		7.4	500.4 ✓
+60		7.8	500.0 ✓
161+00		8.1	499.7 ✓
+50		8.0	499.8 ✓
162+00		6.9	500.9 ✓
+50		5.1	502.7 ✓
+53			499.6 Top of 3" iron water pipe.
+77		4.9	502.9 ✓
163+00		5.4	502.4 ✓
+25		6.0	501.8 ✓
+50		7.4	500.4 ✓
164+00		10.3	497.5 ✓
+20		11.0	496.8 ✓
+50		11.1	496.7 ✓
+75		10.7	497.1 ✓
165+00		10.3	497.5 ✓

Note: see page 76 for sewer line Xing ℄.

		507.83		
165+25			10.1	497.7 ✓
+50			9.7	498.1 ✓
+75			9.5	498.3 ✓
166+00			8.8	499.0 ✓
B.M.#17			2.94	504.89 ✓ set new B.M., Nail in W. side of 24" oak Tree [in center of Traveled Rd] 15' Rt of 162+90 ±
T.P.			8.85	498.98 ✓
	11.13	510.11 ✓		
+22			9.5	500.6 ✓
+71				501.3 Top of 2" iron water pipe
167+00			6.6	503.5 ✓
+19			5.9	04.2 ✓
+50			5.3	04.8 ✓
+75			5.1	05.0 ✓
168+00			5.0	05.1 ✓
+25			5.2	04.9 ✓
+50			5.4	04.7 ✓
+77			6.0	04.1 ✓
169+00			6.4	03.7 ✓
+36±			6.7	03.4 ✓
+67			6.6	03.5 ✓
170+00			6.6	03.5 ✓
+50			7.0	03.1 ✓
T.P.			7.08	503.03 ✓
	2.92	505.95 ✓		
T.P.			2.87	503.08 ✓ ON Guard Marker 171+40 ±
	0.41	503.49 ✓		

Simpson
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Mscarty

9/24/31

clear - warm

	503.49		
171+00		1.1	502.4 r
+40		1.6	01.9 r
+75		2.3	01.2 r
172+00		3.4	00.1 r
+50		5.2	498.3 r
173+00		7.0	96.5 r
+50		8.2	95.3 r
+90		9.0	94.5 r
174+30		9.6	93.9 r
T.P.		9.38	494.11 r
	0.23	494.34 r	
+77			492.3 Top of 3" iron pipe.
+84		1.4	92.9 r
175+00		2.0	92.3 r
+50		3.3	91.0 r
176+00		4.1	90.2 r
+50		4.8	89.5 r
177+00		5.2	89.1 r
+14.5			488.6 Top of 8" Cor. iron sewer pipe
+50		5.0	89.3 r
178+00		5.0	89.3 r
+50		5.4	88.9 r
B.M. # 18 & T.P.		2.89	491.45 r = check on old B.M. # 22 Nail on Power Pole 6' Lf of sta. 178+50
	1.44	492.89 r	(Rec. El. 491.37) [Use For new B.M. # 18]
179+00		4.4	88.5 r
+30		4.7	88.2 r
+75		3.8	89.1 r

Note: See Page 76 for sewer line Xing &.

		492.89 ✓		
180+15		3.5	489.4 ✓	
+35.5			488.3	Top of 3" iron sewer pipe.
+50		4.0	88.9 ✓	
181+00		4.4	88.5 ✓	
+50		4.1	88.8 ✓	
182+00		3.3	89.6 ✓	
+50		3.3	89.6 ✓	
183+00		3.6	89.3 ✓	
+50		1.8	91.1 ✓	
T.P.		0.37	492.52 ✓	
	4.71	497.23 ✓		
184+00		3.6	93.6 ✓	
+50		3.0	94.2 ✓	
185+00		3.0	94.2 ✓	
+50		3.2	94.0 ✓	
186+00		3.8	93.4 ✓	
+50		4.0	93.2 ✓	
187+00		4.0	93.2 ✓	
+50		3.8	93.4 ✓	
188+00		4.3	92.9 ✓	
+50		5.9	91.3 ✓	
189+00		7.2	90.0 ✓	
+50		8.8	88.4 ✓	
B.M. #19		2.72	494.51 ✓	set New B.M., Two Nails in Power Pole #73941, 6' Lf. 188+35
T.P.		8.48	488.75 ✓	
	3.75	492.50 ✓		

	492.50 ✓		
190+00		5.5	487.0 ✓
+50		6.8	85.7 ✓
191+00		7.1	85.4 ✓
+50		7.8	84.7 ✓
192+00		7.8	84.7 ✓
+50		6.0	86.5 ✓
		1.63	490.87 ✓ = check on old B.M. # 24, Nail in power pole # 73938, 6' L 192+80 Rec. El. 490.91
193+00		3.5	89.0 ✓
+60		1.8	90.7 ✓
194+00		3.0	89.5 ✓
+27			487.7 Top of 14" concr. waterpipe (not in use)
+50		5.3	87.2 ✓
195+00		6.3	86.2 ✓
+50		6.7	85.8 ✓
196+00		6.8	85.7 ✓
T.P.		6.34	486.16 ✓
	4.05	490.21 ✓	
+50		4.0	86.2 ✓
197+00		3.1	87.1 ✓
+50		3.1	87.1 ✓
198+00		4.0	86.2 ✓
+50		4.8	85.4 ✓
199+00		5.5	84.7 ✓
+50		5.6	84.6 ✓
+75		5.1	85.1 ✓
200+00		4.9	85.3 ✓

490.57
4.7
485.9

	490.21 ✓			
200+25		4.5	485.7 ✓	
+50		4.3	86.9 ✓	
+69 4 E.C.		4.2	86.0 ✓	
201+00		4.0	86.2 ✓	
+50		2.7	87.5 ✓	
202+00		1.2	89.0 ✓	
+40		0.5	89.7 ✓	
T.P.		0.54	489.67 ✓	
	0.70	490.37 ✓		
+50		0.7	89.7 ✓	
203+00		1.5	88.9 ✓	
B.M. #20		0.47	489.90 ✓ Set new	B.M., Spike in Tel. Pole #29167, 20' Rt. 202+98
+50		3.3	87.1 ✓	
204+00		6.5	83 87.9 ✓	
+50		7.6	82.8 ✓	
205+00		7.8	82.6 ✓	
+50		7.9	82.5 ✓	
+87		481.3	Top of	2" iron water pipe
T.P.		7.82	482.55 ✓	
	4.91	487.46 ✓		
206+00		4.4	83.1 ✓	
+50		4.4	83.1 ✓	
207+00		4.3	83.2 ✓	
+60		2.6	84.9 ✓	
208+00		3.7	83.8 ✓	
		5.4	82.1 ✓ Flow	line of 12" conc. culvert, 2' L of 208+13

	487.46			
		6.3	81.2	Flow line of 12" conc. culvert 20' R of 208+13
208+50		4.8	82.7	
209+00		4.6	82.9	
+16			480.6	Flow line 14" cor. iron culvert (1.4 lower at N. end)
+50		5.2	82.3	
210+00		5.8	81.7	
+50		6.8	80.7	
211+00		7.3	80.2	
T.P.		6.01	481.45	
	2.68	484.13		
+30		4.0	80.1	
+50		3.7	80.4	
+75		3.6	80.5	
212+00		3.7	80.4	
+25		3.9	80.2	
+56		4.6	79.5	
213+00		5.0	79.1	
+50		5.4	78.7	
214+00		5.3	78.8	
		6.9	77.2	Flow line of 12" G.I. culvert 4' L of 214+03
		7.6	76.5	" " " " " 26' R. " "
+50		5.1	79.0	
+86	9	4.5	79.6	
215+25		3.8	80.3	
+62	5	3.6	80.5	
216+00		3.4	80.7	

		484.13		
B.M. #21 & T.P.		3.21	480.92	Set New B.M.; Spike in 40" oak Tree, 20' Rt. 215+18
	4.61	485.53		Oak Tree is in center of county Rd.
216+26		5.0	80.5	
+50		5.0	80.5	
+75		5.1	80.4	
217+00		5.2	80.3	
+25		5.8	79.7	
+50		6.6	78.9	
+61		7.0	78.5	
+68		7.2	78.3	
218+22		8.7	76.8	
+77		9.5	76.0	
219+00		9.3	76.2	
		11.0	74.5	Flow line of 12" C.I. culvert 7'L. 218+82
		11.7	73.8	" " " " " " 23'R " "
+50		8.4	77.1	
T.P.		8.77	476.76	
	10.95	487.71		
+83		9.4	78.3	
220+00		8.8	78.9	
+22			479.7	Top of 2" water pipe
+25		7.6	80.1	
+50		6.3	81.4	
+75		5.0	82.7	
221+00		3.5	84.2	
+25		1.8	85.9	

215+18
1 87 +50
27.68

215+18
16.50
198.68

		487.71		
221+33½	E.C.		1.2	486.5 ✓
	T.P.		0.26	487.45 ✓
		11.98	499.43	
	+65		10.9	488.5 ✓
222	+00		8.4	91.0 ✓
	+30		6.5	92.9 ✓
	+60		4.4	95.0 ✓
	+75		3.3	96.1 ✓
223	+00		1.9	97.5 ✓
	+25		0.7	98.7 ✓
	T.P.		0.08	499.35 ✓
		4.58	503.93 ✓	
	+50		4.6	99.3 ✓
	+70½		4.2	99.7 ✓
B.M. # 22			1.05	502.88 ✓ Set New B.M., Spike in 30" Oak Tree, 20' Rt. Sta. 223+80
224	+00		3.9	500.0 ✓
	+50		3.6	500.3 ✓
225	+00		4.4	499.5 ✓
	+26		4.5	99.4 ✓
	+55		4.7	99.2 ✓
	+83		4.9	99.0 ✓
226	+00		5.0	98.9 ✓
	+19.5		4.9	99.0 ✓
	+40		5.1	98.8 ✓
	+60		5.4	98.5 ✓

	503.93 ✓		
T.P.		5.38	498.55 ✓
	0.29	498.84 ✓	
226+84.8		0.7	498.1 ✓
227+00		1.1	97.7 ✓
+50		2.8	96.0 ✓
+79.2		3.4	95.4 ✓
228+00		4.2	94.6 ✓
+25		4.9	93.9 ✓
+53.1		5.5	93.3 ✓
+98.9		5.9	92.9 ✓
229+00		491.5	Top of 4" iron water pipe
229+25		6.1	92.7 ✓
+50		6.5	92.3 ✓
+75		6.7	92.1 ✓
230+00		7.0	91.8 ✓
T.P.		7.02	491.82 ✓
	0.41	492.23 ✓	
B.M. #23		7.11	485.12 ✓ check on old B.M. #29, Hub Nailed To Tel. Pole, 40' Rt. of 229+95
+16.5		0.7	491.5 ✓ Rec. El. 485.13 - [Use For New B.M. #23]
+50		1.5	90.7 ✓
+81		2.6	89.6 ✓
231+12.4		4.1	88.1 ✓
+43.7		5.8	86.4 ✓
		6.7	85.5 ✓ Flow line of 6" ✓ 2 steel culvert 6' Lt of sta 231+37.2
		9.2	83.0 ✓ " " " 20' R " " 221+54
+78		6.8	85.4 ✓

		492.23 ✓		
232+00			7.1	485.1 ✓
+30			7.1	85.1 ✓
+50			7.4	~~89.8~~ 85.4 ✓
+72 T.P.			8.15	484.08 ✓ Top of 3" iron water pipe
	0.44	484.52 ✓		
+70			0.3	84.2 ✓
+85.6			0.9	83.6 ✓
233+00			1.4	83.1 ✓
+50			3.1	81.4 ✓
234+00			5.4	79.1 ✓
+40			7.0	77.5 ✓
+68			8.3	76.2 ✓
235+06			10.0	74.5 ✓
+42			12.1	72.4 ✓
T.P.			12.47	472.05 ✓
	0.61	472.66 ✓		
236+00			2.0	70.7 ✓
+50			4.2	68.5 ✓
237+00			5.6	67.1 ✓
+50			6.3	66.4 ✓
238+00			7.1	65.6 ✓
+50			7.4	65.3 ✓
239+00			7.6	65.1 ✓
T.P.			7.36	465.30 ✓
	6.22	471.52		

	471.52		
239+50		6.4	465.1 ✓
+91.7		6.3	465.2 ✓
240+02			463.75 Top of 2" iron water pipe
240+25		5.7	465.8 ✓
+50		5.2	466.3 ✓
+75		4.9	466.6 ✓
241+00		5.0	466.5 ✓
+50		4.9	466.6 ✓
242+00		5.6	465.9 ✓
+50		6.3	465.2 ✓
+95.3 A.		7.0	464.5 ✓
		8.8	462.7 ✓ Flow line of 16" conc. culvert 4' L of sta. 242+89
		9.3	462.2 ✓ " " " " " 23' R " " " "
B.M. #24 & T.P.		5.69	465.83 ✓ Set Nail B.M. Nail in East side of Power Pole 6' L of sta 242+95
	1.74	467.57 ✓	
243+50		3.6	464.0 ✓
244+00		4.0	463.6 ✓
+50		4.1	463.5 ✓
245+00		4.0	463.6 ✓
+50		4.5	463.1 ✓
246+00		4.7	462.9 ✓
+43.5 A		5.0	462.6 ✓
247+00		4.7	462.9 ✓
+50		4.3	463.3 ✓
248+00		4.0	463.6 ✓
+50		3.7	463.9 ✓

		467.57 ✓		
T.P.			3.27	464.30 ✓
	8.81	473.11 ✓		
249+00			8.3	464.8 ✓
+50			6.9	66.2 ✓
250+00			6.3	66.8 ✓
+50			5.7	67.4 ✓
+86			4.9	68.2 ✓
251+00			4.9	68.2 ✓
+25			4.8	68.3 ✓
+50			5.1	68.0 ✓
+75			5.6	67.5 ✓
252+00			6.3	66.8 ✓
+25			7.3	65.8 ✓
+56			8.4	64.7 ✓
253+00			9.3	63.8 ✓
+50			10.5	62.6 ✓
254+00			11.2	61.9 ✓
+41 ±			12.4	60.7 ✓
+60			12.6	60.5 ✓
+80			12.7	60.4 ✓
255+00			12.5	60.6 ✓
B.M.# 25 & T.P.			9.41	463.70 ✓ Set New B.M., nail in 12" Sycamore Tree, 36 Rt. of Sta. 254+86
	0.92	464.62 ✓		
			1.50	463.12 ✓ check on old B.M.# Rec. El.= 463.13
+20			4.2	60.4 ✓

		464.62 ✓	
255+38		4.2	460.4 ✓
+75		4.4	60.2 ✓
256+19		4.5	60.1 ✓
+50		4.8	59.8 ✓
+80		4.7	59.9 ✓
257+00		4.6	60.0 ✓
+25		4.3	60.3 ✓
+60		3.9	60.7 ✓
+89		3.9	60.7 ✓
258+00		4.8	59.8 ✓
+60		5.7	58.9 ✓
259+03		6.3	58.3 ✓
+50		6.6	58.0 ✓
T.P.		6.51	458.11 ✓
	4.18	462.29 ✓	
260+00		4.1	58.2 ✓
+36 ±		4.1	58.2 ✓
+55		4.1	58.2 ✓
+72 5		4.0	58.3 ✓
261+00		4.1	58.2 ✓
+58 35		4.8	57.5 ✓
+89		4.9	57.4 ✓
262+19		4.9	57.4 ✓
+65		4.9	57.4 ✓
263+00		5.1	57.2 ✓

	462.29 ✓		
263+50		5.3	457.0 ✓
264+00		6.2	456.1 ✓
+50		7.0	455.3 ✓
+77½		7.3	455.0 ✓
265+00		7.6	454.7 ✓
+25		7.9	454.4 ✓
+50		8.2	454.1 ✓
B.M. #268 T.P.		8.13	454.16 ✓ Set new
	3.68	457.84 ✓	
+75		4.0	453.8 ✓
266+00		4.3	453.5 ✓
+25		4.4	453.4 ✓
+65		4.6	453.2 ✓
267+00		4.6	453.2 ✓
+50		4.7	453.1 ✓
268+00		4.5	453.3 ✓
+49½		4.1	453.7 ✓
+75		3.8	454.0 ✓
		13.2	444.6 ✓
269+00		3.8	454.0 ✓
+25		4.1	453.7 ✓
+50		4.6	453.2 ✓
+66⅔		5.0	452.8 ✓
270+00		5.5	452.3 ✓
+36		5.9	451.9 ✓

B.M., Nail in 18" sycamore, 35'R sta. 265+83

In River channel 100'± Rt. of sta. 268+50

		457.84 ✓	
T.P.		5.66	452.18 ✓
	6.51	458.69 ✓	
270+56.5		6.9	451.8 ✓
+76.6		7.0	451.7 ✓
271+00		7.0	451.7 ✓
		8.6	450.1 ✓ Flow line of 12" C.I. culvert 4'± of Sta. 271+04
		9.1	449.6 ✓ " " " " " 26' Rt. " " " "
+27		6.8	451.9 ✓
+63		6.5	452.2 ✓
+98		6.1	452.6 ✓
272+50		5.5	453.2 ✓
273+00		5.3	453.4 ✓
+50		5.2	453.5 ✓
274+00		5.2	453.5 ✓
+52.7		5.4	453.3 ✓
+75		5.3	453.4 ✓
275+00		5.3	453.4 ✓
+25		5.1	453.6 ✓
+50		4.9	453.8 ✓
T.P.		4.55	454.14 ✓
	5.45	459.59 ✓	
276+00		5.6	454.0 ✓
+13.2		5.5	454.1 ✓
+50		4.7	454.9 ✓
277+02.4		2.8	456.8 ✓

		459.59		
B.M. #27 & T.P.		1.55	458.04	Set NEW B.M., Nail in 36" oak Tree 27' Rt. of Sta. 277+03
	1.71	459.75		
277+25		2.6	457.2	
+50		2.7	57.1	
+75		3.3	56.5	
278+08		3.7	56.1	
+50		4.6	55.2	
		6.8	53.0	Flow line of 16" conc. Culvert 3 Lt. of Sta. 278+61
		7.8	52.0	" " " " 22 Rt. " " " "
279+00		4.4	55.4	
+50		4.9	54.9	
280+00		5.6	54.2	
+50		6.3	53.5	
281+00		7.2	52.6	
+23		8.1	51.7	
+65		9.0	50.8	
T.P.		8.89	450.86	
	1.86	452.72		
282+07		2.7	50.0	
+50		3.4	49.3	
283+00		4.3	48.4	
+50		4.4	48.3	
284+00		4.7	48.0	
+50		4.8	47.9	
285+00		5.3	47.4	

		452.72	
285+50		5.6	447.1 ✓
286+00		5.0	47.7 ✓
+50		4.6	48.1 ✓
287+00		3.6	49.1 ✓
+22.3		3.3	49.4 ✓
+50		3.2	49.5 ✓
+75		3.2	49.5 ✓
T.P.		3.02	449.70 ✓
	2.83	452.53 ✓	
288+00		3.0	49.5 ✓
+25		3.3	49.2 ✓
+48.1		3.7	48.8 ✓
289+00		4.8	47.7 ✓
+50		5.2	47.3 ✓
290+00		5.2	47.3 ✓
+38.5		5.2	47.3 ✓
+68			495.0
+77		5.6	46.9 ✓
291+14.8		6.0	46.5 ✓
B.M. # 28 & T.P.		3.59	448.94 ✓ = check on
	0.68	449.62 ✓	
+50		3.7	445.9 ✓
292+00		3.9	45.7 ✓
+16.2		4.0	45.6 ✓
+50		4.2	45.4 ✓
293+00		4.6	45.0 ✓

Top of 20" rivcted steel pipe (from Cuyamaca Flume

48.94
48.88
.06

old B.M. # 35, Nail in 36" Sycamore, 23' Rt of sta. 290+86
Rec. El. = 448.88 [Use For New B.M. # 28]

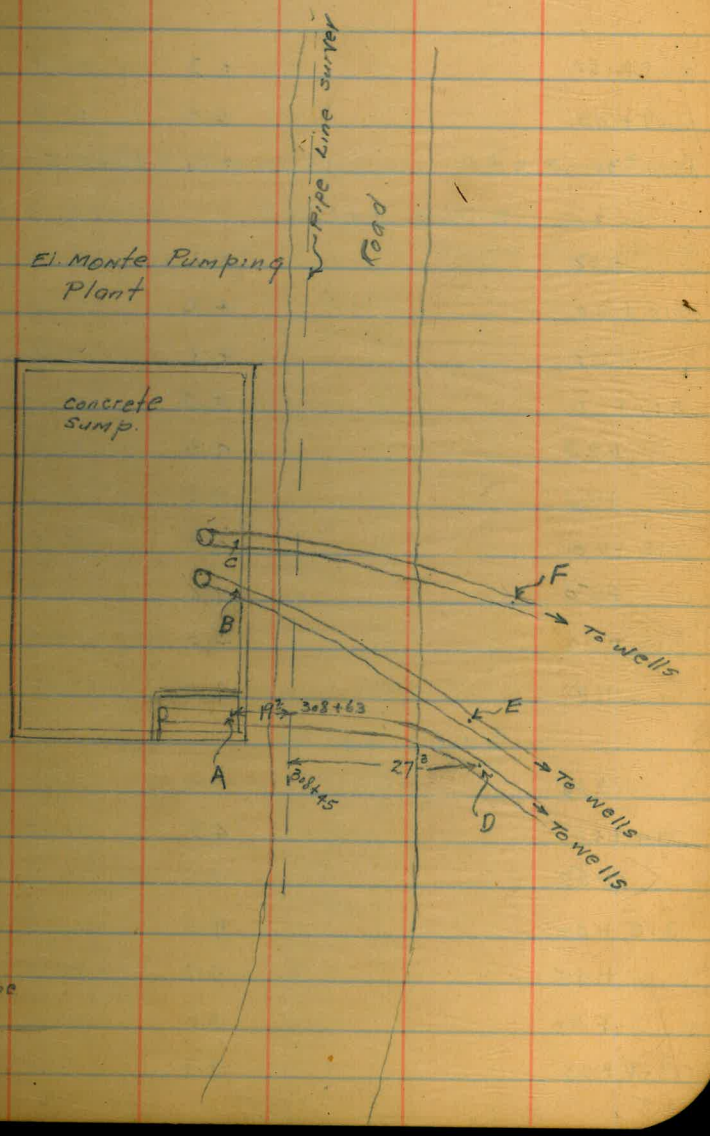
Simpson
Sommermeyer
Mccarty

9/25/31

Part cloudy - warm

		449.62		
293+50		4.6	445.0 ✓	
294+00		4.3	45.3 ✓	
+38		5.0	44.6 ✓	
+75 5		5.7	43.9 ✓	
295+00		5.9	43.7 ✓	
+50		6.2	43.4 ✓	
296+00		6.6	43.0 ✓	
		3.56	446.06 ✓	Nail in stump 25'R of sta 295+90
	1.01	447.07 ✓		
+50		4.6	42.5 ✓	
297+00		4.8	42.3 ✓	
+50		5.0	42.1 ✓	
298+00		4.8	42.3 ✓	
+12	△	4.8	42.3 ✓	
+50		5.0	42.1 ✓	
299+00		5.2	41.9 ✓	
+47	△	5.0	42.1 ✓	
300+00		5.4	41.7 ✓	
+50		5.6	41.5 ✓	
301+00		6.1	41.0 ✓	
+24 7		6.1	41.0 ✓	
B.M.# 29 & T.P.		7.24	439.83 ✓ Set New	B.M., Spike in Tel. Pole #33052, 50' Rt. of sta. 301+40
	3.79	443.62 ✓		
+85 3	△	2.6	41.0 ✓	
302+45		3.0	40.6 ✓	

	443.62		
303+00		3.7	439.9
+62.5		4.5	39.1
304+00		4.9	38.7
+66.6		5.2	38.4
305+02		5.0	38.6
+37.5		4.7	38.9
306+00		4.7	38.9
+34		4.6	39.0
+50		4.5	39.1
+75		4.6	39.0
307+00		4.7	38.9
T.P.		4.40	439.22
	3.74	442.96	
+25		4.0	39.0
+50		4.2	38.8
+73		4.3	38.7
308+00		4.5	38.5
D.		7.8	35.2 = Top of 12" steel Pipe 27' Rt. of 308+45
A.		6.6	36.4 Top of 12" steel Pipe 19' L of 308+63
		10.7	32.3 = Bottom of Sump.
B.		6.3	436.7 Top of 12" cast Iron Pipe 19' L of 308+87
C.		6.3	36.7 Top of 16" steel Pipe 19' L of 308+98



	442.96			
E.		7.8	435.2	Top of 12" Cast Iron pipe 44' Rt. of 308+48
F.		9.2	33.8	Top of 16" steel pipe 75' Rt. of 308+51
308+50		4.3	38.7	
309+00		4.2	38.8	
B.M.#30 & T.P.		4.01	438.95	check on old B.M.#38, U.S.G.S. Gaging station, 19.5' L 309+23. Rec. E. 438.93 [Use For New B.M.#30] Brass Plug Set in Concrete Mounument
	2.76		441.71	
+50		3.7	38.0	
310+00		4.2	37.5	
+50		4.3	37.4	
311+00		4.5	37.2	
+23		4.5	37.2	
+60		4.6	37.1	
312+00		4.9	36.8	
+50		4.8	36.9	
313+00		5.3	36.4	
T.P.		4.56	437.15	
	3.25		440.40	
+50		3.9	36.5	
314+00		4.2	36.2	
+50		4.2	36.2	
315+00		4.5	35.9	
+45		4.4	36.0	
+80		3.6	36.8	
316+00		4.7	35.7	

	440.40			
316+50		5.2	435.2	
317+00		5.4	35.0	
+50		5.5	34.9	
+72			32.1	
318+00		5.5	34.9	Top 2" pipe across road. (Not in use. Abandoned)
+50		5.6	34.8	
319+00		5.6	34.8	
T.P.		4.95	435.45	
	5.31	440.76		
+50		5.9	34.9	
320+00		5.9	34.9	
+50		5.6	35.2	
321+00		5.4	35.4	
+50		4.9	35.9	
322+00		4.5	36.3	
+50		3.0	37.8	
323+00		1.6	39.2	
B.M.# 31 & T.P.		0.79	439.97	Set New B.M., Spike in Power Pole # 74094, 9'N of Sta 323+17
	6.54	446.51		
+50		7.7	38.8	
324+00		7.4	39.1	
		9.3	37.2	Flow line of 12" C.I. culvert 2'R of 324+42
		10.5	36.0	" " " " 32' " " " " "
+50		7.5	39.0	
325+00		7.3	39.2	
+32.5			440.0	Top of 2" steel water pipe
+50		5.5	41.0	Rd same as & Here

	446.51 ✓		
325 +70		3.4	443.1 ✓
+90			442.15 Top of 2" steel water pipe
326 +00		2.4	444.1
326.3			443.6 " 12" concr. sewer pipe
+60	Void ! See Book 327 Page 39	1.2	445.3 ✓
		4.4	442.1 ✓ Rd. opp. 326+00
327 +00		1.4	445. ✓
		4.5	442.0 ✓ Rd. opp. 327+00
+50		4.0	442.5 ✓
328 +00		5.0	441.5 ✓ Rd Same El. as ℄ Here
+30 3		4.9	441.6 ✓
T.P.		5.00	441.51 ✓
	7.89 449.40 ✓		
+75		7.1	442.3 ✓
329 +00		6.8	442.6 ✓
+25		6.4	443.0 ✓
+50		6.2	443.2 ✓
+75		5.7	443.7 ✓
		8.6	440.8 ✓ Flow line of 18" C.I. culvert 19'L of Sta. 328+93
		9.5	439.9 ✓ " " " " " " " 13' Rt. of Sta. 328+75
330 +00		5.0	444.1 ✓
+50		3.5	445.9 ✓
331 +00		1.2	448.2 ✓
T.P.		0.31	449.09 ✓
	13.00 462.09 ✓		
+50		11.6	450.5 ✓
332 +00		9.3	452.8 ✓

	462.09		
332+45		5.9	456.2 ✓
333+00		3.4	458.7 ✓
+50		1.7	460.4 ✓
B.M.#32 & T.P.		0.32	461.77 ✓ set new B.M, Spike in Power Pole #78774, 32'L of sta. 333+77
	11.89	473.66 ✓	
334+00		11.5	462.2 ✓
+50		8.9	464.8 ✓
335+00		6.8	466.9 ✓
+50		4.8	468.9 ✓
336+00		2.5	471.2 ✓
+50		0.3	473.1 ✓
T.P.		0.21	473.45 ✓
	10.59	484.04 ✓	
337+00		8.4	475.6 ✓
+55.7		5.8	478.2 ✓
+89.3		4.9	479.1 ✓
338+22.8		4.9	479.1 ✓
+60		5.3	478.7 ✓
339+00		6.0	478.0 ✓
+50		6.8	477.2 ✓
340+00		8.5	475.5 ✓
+50		10.9	473.1 ✓
341+00		12.6	471.4 ✓
T.P.		12.89	471.15 ✓
	0.64	471.79 ✓	

	471.79		
341+50	1.6	470.2 ✓	
342+00	3.2	68.6 ✓	
+19 A	3.5	68.3 ✓	
+60	4.8	67.0 ✓	
343+00	6.0	65.8 ✓	
+50	7.3	64.5 ✓	
+75	7.2	64.6 ✓	In Branch Rd. To Lake Side
344+00	8.0	63.8 ✓	
+50	7.8	64.0 ✓	
T.P.	7.78	464.01 ✓	
0.73	464.74 ✓		
345+00	1.6	63.1 ✓	
+50	2.3	62.4 ✓	
346+00	4.0	60.7 ✓	
+50	4.9	59.8 ✓	
347+00	5.1	59.6 ✓	
+50	5.6	59.1 ✓	
+92	6.6	58.1 ✓	
	9.8	54.9 ✓ Flow	line at Wooden Bridge 10'± of Sta. 348+03
	5.6	59.1 ✓ Floor	of " " " " " "
348+07	10.1	54.6 ✓	
+16	9.9	54.8 ✓	
+23	4.9	59.8 ✓	
+48 5	5.9	58.8 ✓	
B.M. #33 + T.P.	4.59	460.15 ✓ set New	B.M., Spike in Power Pole #7439, 42 ± of Sta. 348+25

Simpson
Sommer Meyer
McCarty

9/26/31.

Note: notes erased Here account of line change

		460.15
	4.79	464.94 ✓
349+00	5.8	459.1 ✓
+50	5.6	59.3 ✓
350+00	5.3	59.6 ✓
+50	4.8	60.1 ✓
351+00	4.5	60.4 ✓
+50	3.9	61.0 ✓
352+00	3.1	61.8 ✓
+50	2.3	62.6 ✓
353+00	2.6	62.3 ✓
+27	2.4	62.5 ✓
+50	1.7	63.2 ✓
T.P.	1.70	463.24 ✓
	0.15	463.39 ✓
+75	0.4	63.0 ✓
354+00	1.4	62.0 ✓
+75	1.8	61.6 ✓
+46	2.3	61.1 ✓
355+00	3.7	59.7 ✓
+50	4.6	58.8 ✓
	5.30	458.09 ✓ check on old B.M. #42 Rec. El. 458.04
356+00	5.7	57.7 ✓
+50	6.8	56.6 ✓
357+00	7.5	55.9 ✓

Cont. from Book #327

	463.39 ✓		
357+50		8.2	455.2 ✓
358+00		9.1	54.3 ✓
+50		9.9	53.5 ✓
T.P.		9.44	453.95 ✓
	1.08	455.03 ✓	
359+00		2.1	52.9 ✓
+50		2.9	52.1 ✓
360+00		3.6	51.4 ✓
B.M.#34		3.54	451.49 ✓ Set new B.M., Nail in Tel. Pole #25097, 31' Rt. of Sta. 360+47.
+50		4.1	50.9 ✓
361+00		4.7	50.3 ✓
+50		5.3	49.7 ✓
362+00		5.7	49.3 ✓
+50		6.0	49.0 ✓
363+00		6.1	48.9 ✓
+50		6.2	48.8 ✓
364+00		5.7	49.3 ✓
T.P.		5.44	449.59 ✓
	1.84	451.43 ✓	
+60.5		0.8	50.6 ✓
365+00		1.6	49.8 ✓
+25		2.2	49.2 ✓
+50		4.0	47.4 ✓
+75		6.8	44.6 ✓
366+00		8.3	43.1 ✓

		451.43		
366+50		11.3	440.1 ✓	
367+00		12.8	38.6 ✓	
T.P.		12.81	438.62 ✓	
	1.22	439.84 ✓		
+50		2.3	37.5 ✓	
368+00		2.7	37.1 ✓	
+50		1.9	37.9 ✓	
+96 ±		2.4	37.4 ✓	
369+50		4.7	35.1 ✓	
370+00		6.8	33.0 ✓	
B.M. #35		6.77	433.07 ✓	Hub nailed To 12" Euc. Tree 8' N of sta. 370+80
+50		8.8	31.0 ✓	
371+00		10.0	29.8 ✓	
+50		10.9	28.9 ✓	
T.P.		12.14	427.70 ✓	
	0.45	428.15 ✓		
372+00		2.2	26.0 ✓	
+50		5.2	23.0 ✓	
373+00		8.4	19.8 ✓	
+50		10.1	18.1 ✓	
374+00		11.8	16.4 ✓	
T.P.		11.54	416.61 ✓	
	1.20	417.81 ✓		
+50		2.9	14.9 ✓	
375+00		3.8	14.0 ✓	

		417.81 ✓	
375+50		4.5	413.3 ✓
376+00		5.4	12.4 ✓
+50		5.8	12.0 ✓
377+00		6.4	11.4 ✓
+50		7.3	10.5 ✓
378+00		7.8	10.0 ✓
+50		8.7	09.1 ✓
379+00		9.2	08.6 ✓
T.P.		9.06	408.75 ✓
	2.48	411.23 ✓	
+50		3.0	08.2 ✓
380+00		3.3	07.9 ✓
+60		3.7	07.5 ✓
381+00		3.5	07.7 ✓
+50		3.0	08.2 ✓
382+00		4.2	07.0 ✓
+50		6.2	05.0 ✓
383+00		7.2	04.0 ✓
+10.7 △		7.4	03.8 ✓
+50		7.9	03.3 ✓
384+00		8.0	03.2 ✓
		9.7	01.5 ✓ Flow line of 18" C.I. culvert 5' L of sta. 384+26
		10.3	00.9 ✓ " " " " " 25' Rt. " " " "
+50		8.1	03.1 ✓
385+00		8.3	02.9 ✓

		411.23 ✓		
385+50			7.7	403.5 ✓
			7.38	403.85 ✓ = check on old B.M. # 44 Rec. El. = 403.78
B.M. # 368 T.P.			7.37	403.86 ✓ set New B.M., spike in Tel. pole # 25085, 23' R of Sta 385+60
	13.02	416.88		
386+00			11.9	405.0 ✓
+50			8.5	08.4 ✓
387+00			5.3	11.6 ✓
+50			2.0	14.9 ✓
T.P.			0.19	416.69
	12.11	428.80		
388+00			11.6	17.2 ✓
+50			9.7	19.1 ✓
+80			7.4	21.4 ✓
389+00			7.6	21.2 ✓
+50			6.9	21.9 ✓
390+00			5.6	23.2 ✓
+50			4.4	24.4 ✓
391+00			2.8	26.0 ✓
+20			2.1	26.7 ✓
+65			1.1	27.7 ✓
392+00			0.3	28.5 ✓
T.P.			0.04	428.76 ✓
	7.42	436.18 ✓		
+50			7.0	29.2 ✓
393+00			6.5	29.7 ✓

		436.18 ✓		
		5.77	430.41 ✓	Check on old B.M. # 45 Rec. El. 430.40
393+50		5.7	730.8 ✓	
394+00		5.1	31.1 ✓	
+50		4.8	31.4 ✓	
395+00		4.0	32.2 ✓	
+50		4.0	32.2 ✓	
396+00		3.4	32.8 ✓	
+25		3.4	32.8 ✓	
+57	Δ	4.3	31.9 ✓	
B.M. # 37 & T.P.		3.23	432.95 ✓	Set New B.M. Nail in Tel. Pole # 25080 30' Rt. of Sta. 396+02
	1.87	434.82 ✓		
397+00		4.1	30.7 ✓	
+50		5.2	29.6 ✓	
398+00		6.1	28.7 ✓	
+50		6.9	27.9 ✓	
399+00		8.3	26.5 ✓	
+50		9.8	25.0 ✓	
400+00		11.5	23.3 ✓	
T.P.		11.04	423.78 ✓	
	0.29	424.07 ✓		
+50		2.1	22.0 ✓	
401+00		3.7	20.4 ✓	
+50		4.6	19.5 ✓	
402+00		5.8	18.3 ✓	
+50		6.8	17.3 ✓	

		424.07 ✓		
403+00			7.4	416.7 ✓
+50			7.8	16.3 ✓
T.P.			7.95	416.12 ✓
	8.08	424.20 ✓		
404+00			8.6	15.6 ✓
+50			8.3	15.9 ✓
405+00			7.1	17.1 ✓
+25			6.2	18.0 ✓
+50			5.6	18.6 ✓
406+00			4.5	19.7 ✓
+50			4.4	19.8 ✓
+97			5.7	18.5 ✓
407+10			6.1	18.1 ✓
+20			6.2	18.0 ✓
+30			6.6	17.6 ✓
+40			6.9	17.3 ✓
+40				414.2
+50			7.0	17.2 ✓
+70			7.2	17.0 ✓
+80			7.6	16.6 ✓
+90			7.8	16.4 ✓
+95.3 E.C.			7.9	16.3 ✓
408+00			8.0	16.2 ✓
			7.00	417.20 ✓ check on old B.M. #47 Rec El 417.16
B.M. #38 & T.P.			7.31	416.89 ✓ set new B.M, Small R.R. spike in Guy Pole 42'L 407+34
	1.42	418.31		

Top 8" Water Main.

418.31 ✓

408+35		2.9	415.4 ✓
+69.6		3.7	14.6 ✓
409+00		5.2	13.1 ✓
+25.5		6.5	11.8 ✓
+74		8.8	09.5 ✓
410+00		10.2	08.1 ✓
+38		11.0	07.3 ✓
+50		11.3	07.0 ✓
+75		11.9	06.4 ✓
T.P.		11.49	406.82 ✓
	4.07	410.89 ✓	
411+00		4.6	06.3 ✓
+25		4.7	06.2 ✓
+50		4.9	06.0 ✓
+75		4.8	06.1 ✓
412+00		4.8	06.1 ✓
+50		5.1	05.8 ✓
413+00		5.2	05.7 ✓
+50.5		5.4	05.5 ✓
414+00		5.3	05.6 ✓
+50		5.6	05.3 ✓
415+00		5.1	05.8 ✓
+50		4.8	06.1 ✓
T.P.		4.87	406.02 ✓
	4.22	410.24 ✓	

	410.24 ✓		
416+00		3.7	406.5 ✓
+50		4.4	05.8 ✓
+58.9		4.4	05.8 ✓
417+00		4.7	05.5 ✓
+49.5		4.8	05.4 ✓
+75		4.9	05.3 ✓
418+00		4.8	05.4 ✓
+25		4.6	05.6 ✓
+50		4.1	06.1 ✓
+84.2 E.C.		3.8	06.4 ✓
419+00		3.5	06.7 ✓
+49.6		1.7	08.5 ✓
+62.8		408.1	
+71		0.4	09.8 ✓ Edge of Conc. Pavement to Lakeside and Ramona
+97.2		0.9	09.3 ✓ " " " " " " " "
T.P.		0.62	409.62 ✓
	0.46	410.08 ✓	
420+30		1.2	08.9 ✓
+40.3		406.5	Top 4" Water Line.
+60		2.4	07.7 ✓ Top 2½" Water Line.
+80		4.0	06.1 ✓
421+00		4.9	05.2 ✓
+50		6.9	03.2 ✓
422+00		8.1	02.0 ✓
+50		8.5	01.6 ✓
423+00		8.3	01.8 ✓
+56.5		8.6	01.5 ✓

410.08

12.04 398.04✓ Top of existing 36" Steel pipe at Dead End.

T.P. 8.34 401.74✓

3.18 404.92✓

4.79 400.13✓ = check on Co. B.M. #21, El. 400.22. 6'Rt. of sta. 435+85

Notes reduced & checked 9/29/31
L.H.H.

Profile And Cross-Sections on Road Survey, Alternate Line #1.

July-1-1935.
H.H. - Simpson
Soper - Remmen

445.2 = Assumed Elev. For Sta. 114+00 on Alternate Line #1

450.97
5.72 +05.72

114+86.26 = B.C. - #1
114+84.47 = B.C. - #2

115+00 use Same as Alternate Line #2

+50 " " " " " "

	Lf.			℄	Rt.		
	441.7	444.8	445.8	445.9	445.8	455.1	462.1
116+00	9.2	8.1	5.1	5.0	5.1	+4.2	+11.2
	50	32	25		3	8	28
	443.0	444.1	446.0	446.5	446.4	447.4	456.4
+50	7.9	6.8	4.9	4.4	4.5	3.5	+5.5
	40	25	21		8	9	35
	444.1	444.6	446.4	447.3	447.2	448.3	450.4
117+00	6.8	6.3	4.5	3.6	3.7	2.6	0.5
	32	27	20		13	14	30
	444.1	444.7	446.7	447.4	447.5	451.7	455.4
+50	6.8	6.2	4.2	3.5	3.4	+0.3	+4.5
	30	21	16		13	16	30
T.P.	455.16	3.36	447.56				
	7.60	+09.96	+02.36				
	443.6	444.6	446.7	447.6	447.4	455.2	461.4
118+00	11.6	10.6	8.5	7.6	7.8	0.0	+6.2
	30	18	14		14	18	35
	444.3	445.4	446.9	447.7	447.8	455.0	459.0
+50	10.9	9.8	8.3	7.5	7.4	0.2	+3.8
	30	14	11		19	24	35

Cont'd. From Page 72.

		Lf.		℄	Rt.		
	455.16 ✓						
	~~+09.96~~						
	445.3 ✓	446.4 ✓	448.1 ✓	448.2 ✓	449.0 ✓	451.7 ✓	455.0 ✓
119+00	9.9	8.8	7.1	7.0	6.2	3.5	0.2
	25	10	7		24	26	35
	445.5 ✓	447.0 ✓	448.3 ✓	448.8 ✓	450.7 ✓	451.8 ✓	
+50	9.7	8.2	6.7	6.4	4.5	3.4	
	30	8	6		29	35	
	445.8 ✓	447.2 ✓	448.3 ✓	448.9 ✓	450.2 ✓		
120+00	9.4	8.0	6.9	6.3	5.0		
	30	9	6		30		
	446.3 ✓	447.7 ✓	448.4 ✓	449.4 ✓	449.8 ✓	451.1 ✓	451.8 ✓
+50	8.9	7.5	6.8	5.8	5.4	4.1	3.4
	30	16	14		19	21	30
	445.0 ✓	445.9 ✓	447.9 ✓	448.8 ✓	448.8 ✓	452.1 ✓	457.1 ✓
121+00	10.2	9.3	7.3	6.4	6.4	3.1	+1.9
	30	23	20		11	13	25
	444.9 ✓	445.7 ✓	447.2 ✓	448.1 ✓	448.0 ✓	452.6 ✓	461.6 ✓
+50	10.3	9.5	8.0	7.1	7.2	2.6	+6.4
	40	30	26		4	6	30
		446.6 ✓		446.9 ✓	451.7 ✓	461.4 ✓	
122+00		8.6		8.3	3.5	+6.2	
		30			3	30	
		447.2 ✓	447.1 ✓	451.9 ✓	461.2 ✓		
+50		8.0	8.1	3.3	+6.0		
		31	3		30		

Contd. From Page 73.

455.16
~~+09.96~~

	Lf.		℄	Rt.	
123+00	447.8 7 4 32	447.7 7 5 2	449.2 6.0	453.5 1 7 30	
+50	447.5 7 7 35	448.1 7 1 1	448.8 6.4	451.8 3 4 30	
124+00	447.5 7 7 30	448.3 6 9 14	447.8 7.4	451.6 3 6 8	458.6 + 3 4 30
+50	446.0 9 2 30	448.0 7 2 26	448.5 6 7 13	448.3 6.9	448.3 6 9 1	449.5 5 7 2	459.5 + 4 3 30
125+00	445.8 9 4 35	446.4 8 8 28	448.8 6 4 25	449.1 6.1	448.9 6 3 2	457.5 2 7 5	460.1 + 4 9 30

125+28.74 End of Alternate Line #1 See Cross-section in Previous Notes.
124+72.44 Co. Survey #606

5.1 ~~+04.9~~ 450.1 : check on ℄ Sta. 125+00 (Orig. Co. Survey #606)

Water Lines, Drains Etc. Crossing
℄ of Pipe Line Survey

508.33 = B.M. # 13

3.96 512.29

5.85 506.44 = Top of 2" water Line crossing ℄ at sta. 114+96

504.89 = B.M. # 17

1.87 506.76

8.25 498.51 = Top of 6" (concrete) Sewer Line 3' L of sta. 160+79 [Cow Barn Drain]

10.60 = " " " " " 21' Rt. of sta. 160+79

491.45 = B.M. # 18

2.43 493.88

5.30 488.58 Top of 8" G.I. sewer pipe 3' L of sta. 177+15 Cow Barn Drain

6.30 " " " " " " 25' R of " " "

High Water Marks along San Diego River below El Capitan Dam Site. in Relation to Pipe Line Elevations.

Station	℄ Elev.	Elev. H.W.M.	
32+16	549.7	546.7	Below Road
33+98.5	546.0	546.5	Above Road
36+15	538.7	543.0	" "
36+75	541.4	542.4	" "
40+50	538.6	540.0	" "
41+90	534.7	538.7	" "
44+75	540.0	535.0	Below "
51+50	533.9	532.0	" "
53+00	532.8	530.8	Above Road
54+50	539.3	529.3	" " ?
55+96	534.9	529.0	Below Road

High Water Marks Contd.

Station	Elev.	Elev. H.W.M.		
60+50	533.6	528.4	Below	Road
71+00	527.1	524.2	"	"
77+50	523.7	520.7	"	"
79+85	529.4	518.6	"	"
92+75	521.2	515.5	"	"
95+00	525.8	515.2	"	"
97+00	524.4	514.8	"	"
103+00	509.1	511.0	Above	"

At Cape Horn.

IMPROVED TABLES

AND

INFORMATION

52.8
14
211.2
528
739.2