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THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
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Capistrano

		PAGE
Cross Section -	Nebraska Dr. - Chatsworth to Macaulay	26-42
" "	- Capistrano st. - Newton to Poe	1-4
" "	- Oliphant st. - Clove to Willow	61-66
" "	- Plum st. Macaulay to Poe	47-55
" "	- Newell - Clove to Willow	67-72
" "	- Willow - Lowell to Newell	43-46
" "	- Macaulay - Willow to Pascoe	5-25
	Clove - Macaulay to Oliphant	56 60
Survey	Lot 2 Blk 9 Pt. Loma Hgts. }	77
	Lots 1+2 Blk 119 Roseville }	
"	Lots 11+12 Blk 105 "	80

Walker
Was Bliss
Matteon
Drebert
3-12-30

Cross Section Capistrano St.

Bet. Poe And Hawona St.

60' Wide
10' C&S.
10' S.S.

		2.04	80.25		78.21
T.P.		1:19	72.93	8.51	71.74

S.E. BP Chatsworth & Poe on B.P. N.W. Capistrano & Poe Sts.

S.L. Poe St = 0+00

W on Walk	2.54	70.39
cb. " cb.	2.79	70.14 ✓
Gut. on Con.	3.61	69.32 ✓
+2' " Edge Gut	3.47	69.46
¼	2.7	70.2
½	2.2	70.7
¼	3.0	69.9
Gut. on Ground	3.2	69.7
cb +1.5' on top cb Return.	2.96	69.97
0+34 = End Exist Walk on E.		
E.	3.6	69.3
+1 on E. edge Walk	3.49	69.44
+5 " W " "	3.61	69.32
cb. on Ground	4.1	68.8
¼	3.8	69.1
½	3.5	69.4
¼	3.7	69.2
+8' on Con Gut	4.10	68.53
cb. " " "	4.51	68.42
" " cb.	3.69	69.24
+3.67'	3.55	69.38
+9 on Walk	3.46	69.47

Plotted 4-22-1930-CBH

72.93

W	3.4	69.5
0+58 = beginning Con Walk on E.		
W	3.9	69.0
+1' on Walk	4.11	68.82
+6.35' " "	4.21	68.72
on cb.	4.35	68.58
Gut. at cb.	5.17	67.76
cb. +2' on edge Gut.	5.04	67.89
¼ " "	4.4	68.5
½	4.3	68.6
¼	4.7	68.2
cb.	4.5	68.4
+5' on Walk	4.38	68.55
+9' " "	4.26	68.67
E.	4.7	68.2
0+77.5 = End End Exist. cb. + Con Gutter on W		
E.	4.9	68.0
+1' on Walk	4.74	68.19
+5 " "	4.91	68.02
cb.	4.6	68.3
¼	4.7	68.2
½	4.7	68.2
¼	4.6	68.3
+8 on Gut.	5.53	67.40
cb. " "	5.74	67.19
cb. on top	5.11	67.82

72.93

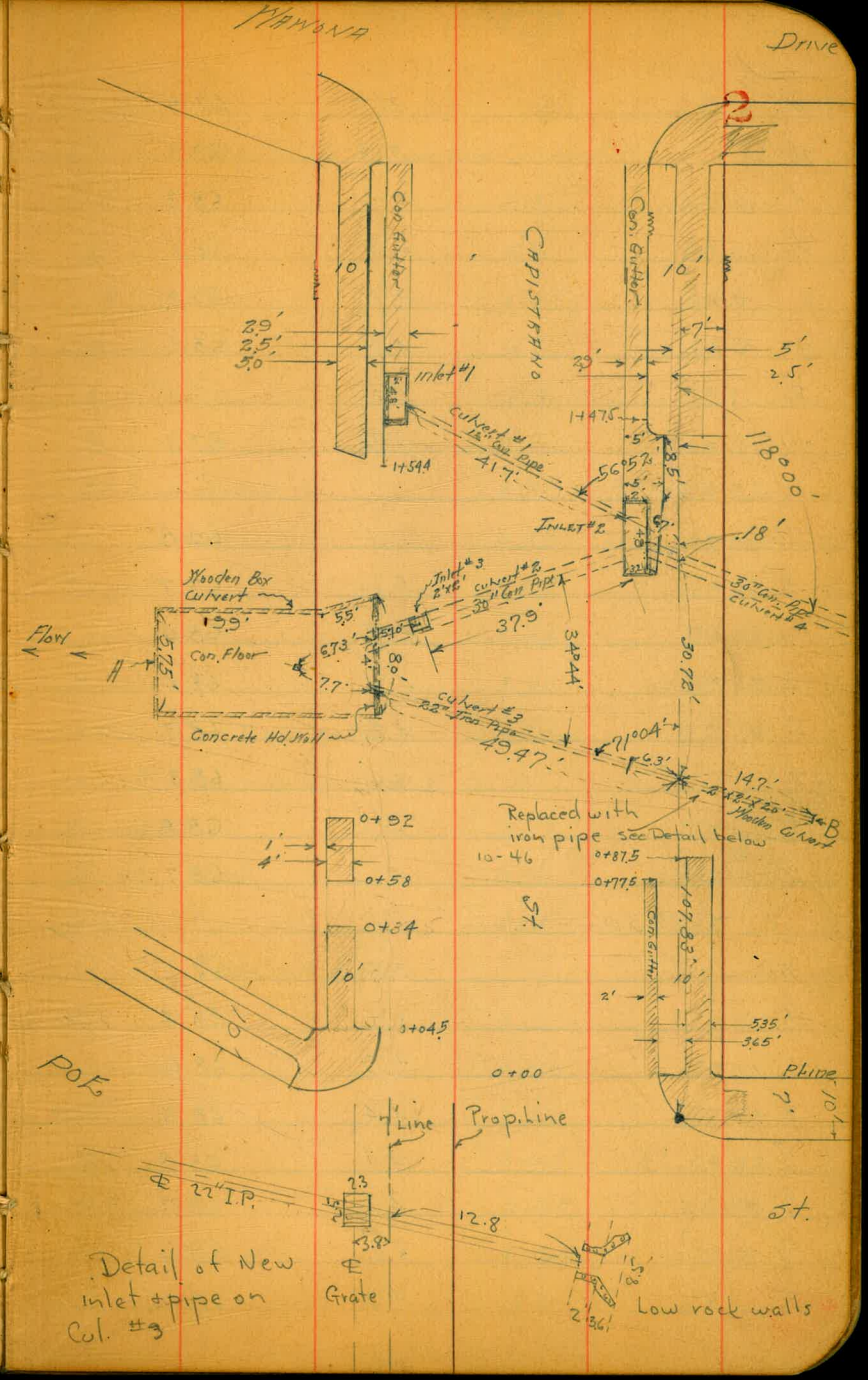
W	4.5	66.4
0+87.5 = End Exist. Walk on West.		
W+1' = W edge Walk	4.98	67.95
+6.35 = E. " "	5.17	67.76
0+92 = End Exist. Walk on E.		
W edge Walk	5.32	67.61
E. " "	5.17	67.76

LEVELS on Inlets + Culverts

S edge Inlet #1 at cb on Grating	5.23	67.70
S " " #1 2' W cb " "	5.04	67.89
N " " #1 2" " " "	4.84	68.09
N " " #1 at cb " "	5.02	67.91
Flow line 12" Culvert #1 at Inlet #1	7.53	65.40
" " 12" " #1 " " #2	8.16	64.77
" " 30" " #4 " " #2	9.81	63.12
" " 30" " #2 " " #2	9.87	63.06
" " 30" " #2 " " #3	11.57	61.36
on Grating Inlet #3	5.55	67.38
Flow line Culvert #2 at Con Hd. Wall	11.83	= End culvert #2
on top Con. Hd. Wall at end culverts #2 And #3	7.33	
Flow Line Wooden Box Culvert at A	13.04	59.89
" " Culvert #3 at Con Hd. Wall	11.67	
" " " #3 at B	9.85	
Inlet #2 S edge on Grating	5.17	
" #2 N " " "	4.62	

on Con Flow on 3/16" Iron Pipe 2.2" dia. 2'x2' Wooden Box 20' Long this inlet is Level East And West.

1+00



		72.93		
W			5.0	67 9
cb.			3.8	69 1
¼			4.6	68 3
℄			4.8	68.1
¼			5.2	67 7
cb.			4.8	68.1
E			5.3	67.6
+15			5.6	67 3
	1+20			
-15			12.1	60 8
E			5.2	67 7
cb.			4.9	68 0
¼			4.7	68 2
℄			4.2	68 7
¼			4.6	68 3
cb.			4.1	68 8
W			4.2	68 7
	1+30			
W			3.8	69 1
cb.			3.5	69.4
+5			4.9	68 0
¼			4.4	68.5
℄			4.1	68 8
¼			4.2	68 7
cb.			4.7	68 2
E			4.9	68.0

CAPISTRANO St. **3**

		72.93			
+15			7.3	65 6	
1+45.5 = Beg. cb and Walk on West					
-15			5.3	67 6	
E			4.9	68 0	
cb.			4.4	68 5	
¼			4.0	68 9	
℄			3.8	69 1	
¼			4.2	68 7	
+7.1' E edge Gut			4.71	68 22	
cb. on Gut.			4.87	68 06	
+2.1 " "			4.51	68 42	
+2.1 " cb.			3.88	69 05	
W on cb.			3.71	69 22	
1+47.5 P.C. cb Return on W			3.89	69 04	
1+54.4 = Beginning cb. + Walk on E					
E top cb.			5.17	67.76	Note this Walk Cut on diag. and Parallel to Wabasku.
W edge Walk			4.97	67.96	
E " "			4.55	67.38	
1+60 = Brk.					
W			2.2	70.7	
+2.5 on Walk			3.20	69 73	
+7.5' " "			3.35	69.58	
cb.			3.45	69 48	
Gut.			4.40	68 53	
+2.9 on Gut.			4.23	68 70	
¼			3.4	69 5	

72.93

℄	3.9	700
½	3.6	693
+7.1 on Grating	4.94	6799
on Grating at cb.	5.13	6780
cb.	4.48	68.45
+25' on edge Walk	4.40	68.53
+75 " " "	4.40	68.53
E.	4.4	68 5
TP 12.08 84.22	0.79	72.14

2+00

E.	10.3	739
cb.	10.42	7380
Gut at cb.	11.42	7280
+29	11.10	7312
½	10.6	736
℄	10.1	741
¼	10.6	736
+7.1 on Gut	10.49	7373
Gut at cb.	10.73	7349
cb.	9.76	7446
+8	8.5	757
W	8.0	762

1+50

W	3.0	812
+2	3.3	809
cb.	3.47	8075

84.22

ARISTRANO ST.

Gut at cb.	4.46	7976
+29 on Gut	4.20	8002
¼	4.0	802
℄	3.5	807
¼	4.1	801
+7.1' on Gut.	4.48	7974
Gut. at cb.	4.64	7958
top cb.	3.70	8052
E.	3.6	806

2+75.4' = N.L. Wawona Drive

E. on Walk	0.00	8422
cb.	0.20	8402
Gut at cb.	1.22	83.00
cb+29' on Gut.	0.89	83.33
¼	0.9	833
℄	0.9	833
¼	1.1	831
+7.1 on Gut.	1.01	8321
Gut. at cb.	1.26	8296
cb.	0.28	8394
W	0.06	8416
T.P. 8.29 82.40	10.11	74.11
Chk on BM SE. Poe & Chelsworth	4.21	78.19 Page 2
		78.21 - BM.
		0.02 = Error.

Walker 3-14-30
Wm Bliss
Drebert
Mattoon

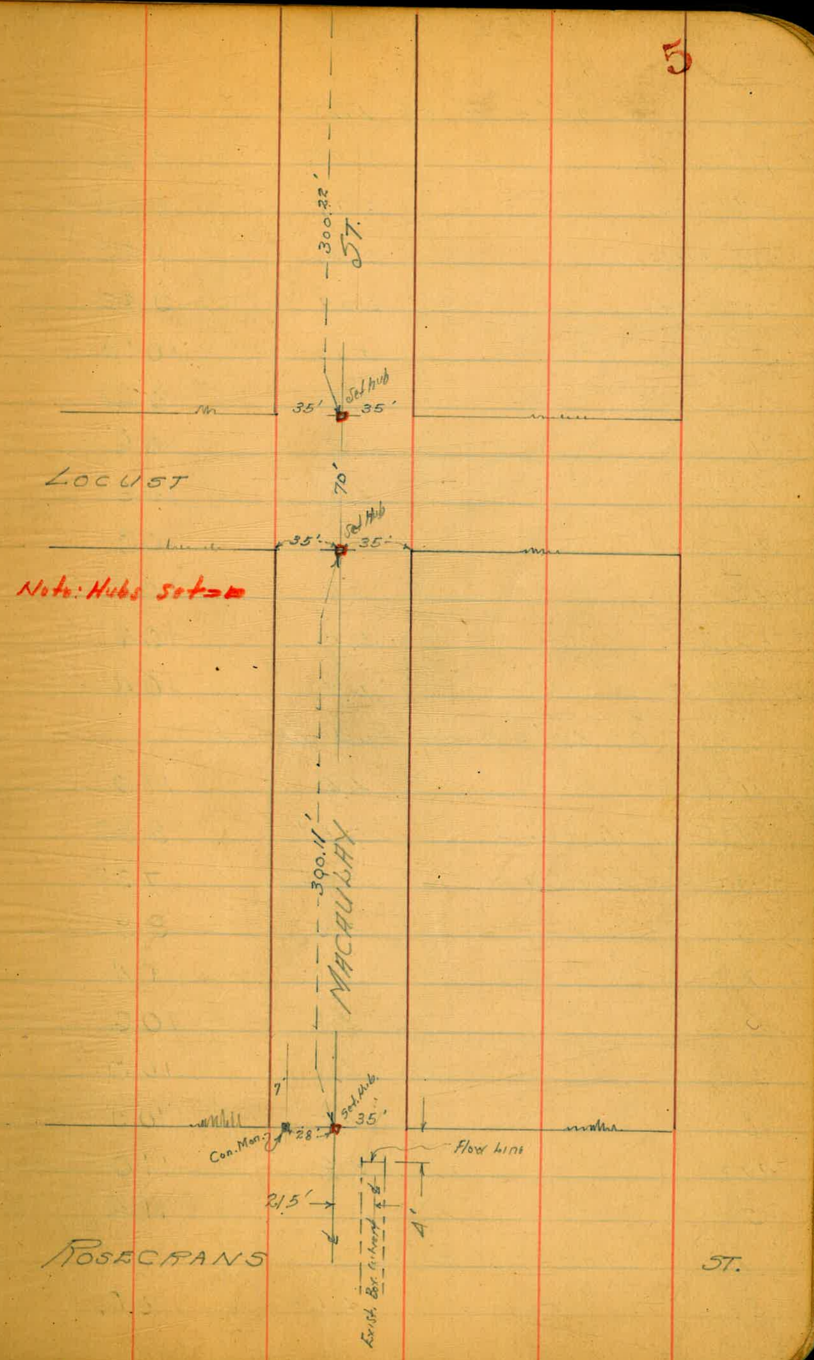
SURVEY
And Cross Section Macaulay St. 70' Wide Bet. Rosecrans and Willow St.

18' Chs 8 & 45.

	2.85	15.41	12.56 S.W. top Hydt Rosecrans + Macaulay
0 - 33' = ℄ Exist. 20' Strip Paving			
- 50' on Pav.		5.75	9.66
- 25' " "		5.56	9.85
5 " "		5.39	10.02
cb. " "		5.29	10.12
¼ " "		5.26	10.15
℄ " "		5.19	10.22
¼ " "		5.14	10.27
cb. " "		5.05	10.36
+3 " "		5.02	10.39
N " "		5.31	10.10
+25' " "		5.69	9.72
+50' " "		5.94	9.47
0 - 23' = W edge Strip Pav.			
- 50' on Pav.		6.16	9.25
- 25' " "		5.85	9.56
N " "		5.42	9.99
cb. " "		5.09	10.32
¼ " "		5.21	10.20
℄ " "		5.36	10.05
¼ " "		5.41	10.00
cb. " "		5.47	9.94
S " "		5.60	9.81
+25 " "		5.78	9.63
+50 " "		6.00	9.41

C.B.H.

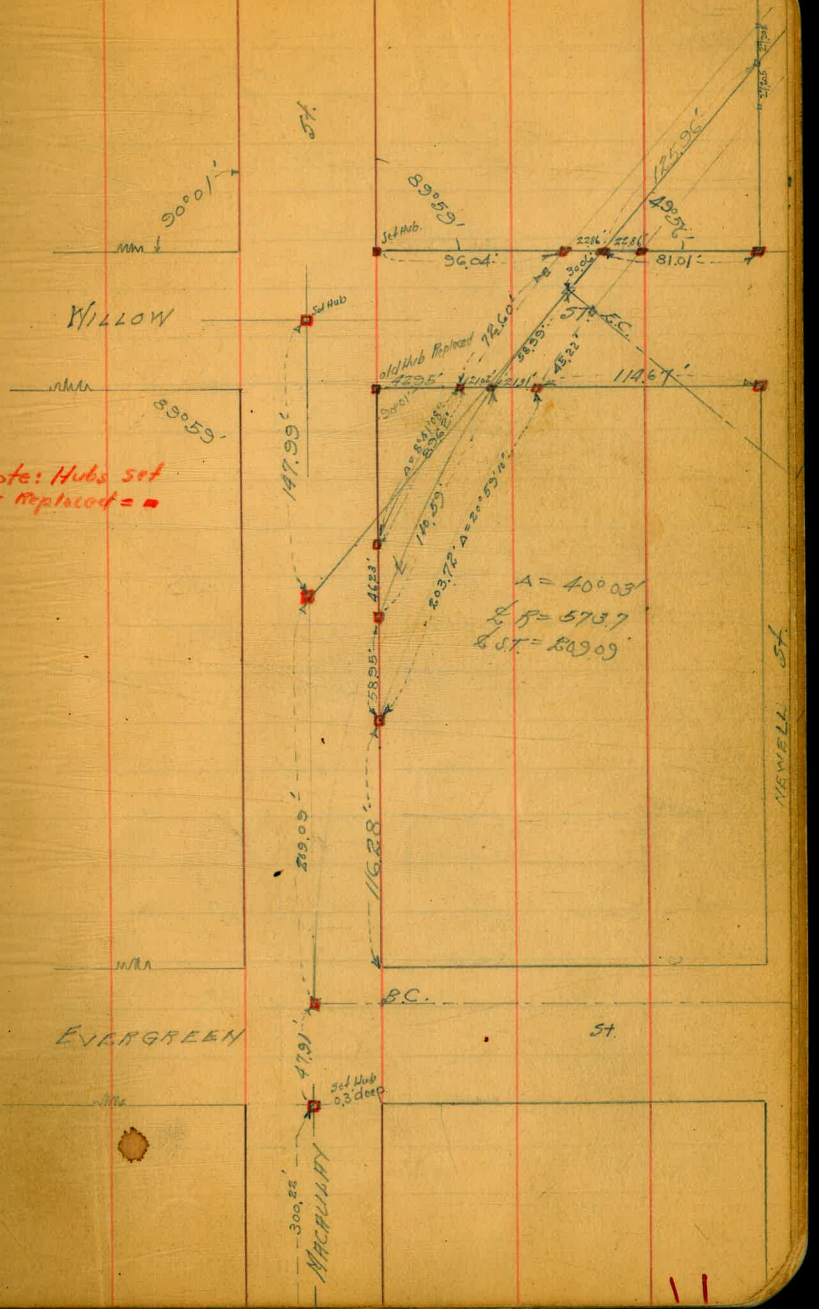
Plotted 4-23-30

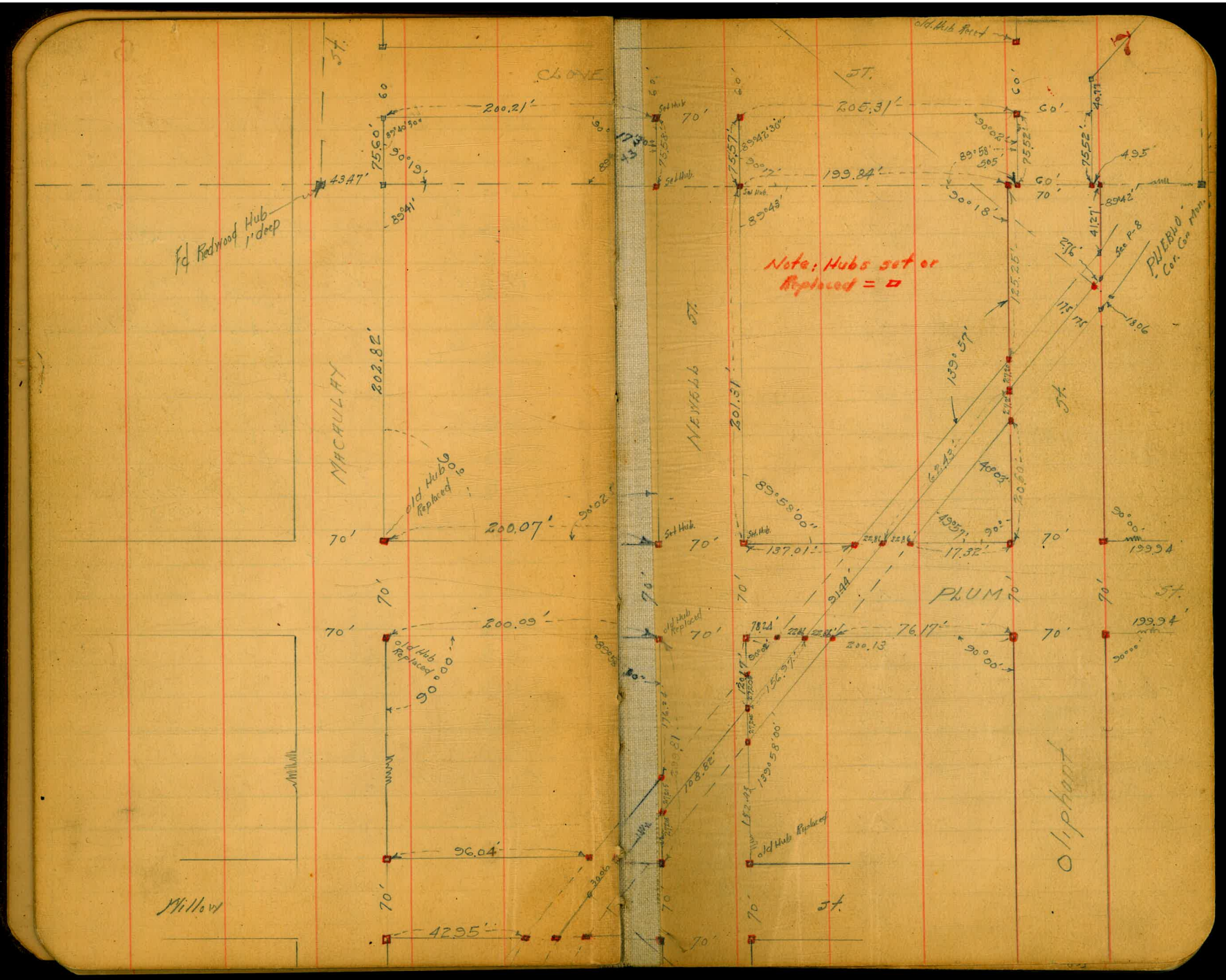


1541 Macauley

0 – 16' = W cb. line		
-50' on cb.	5.52	9 89
-50' " Pav.	6.15	8 26
-25" " cb	5.39	10 02
-25" " Pav.	6.01	9 40
S on cb.	5.22	10 19
" " Pav.	5.80	9 61
cb.	4.8	10.6
¼	4.8	106
℄	5.1	103
¼	5.0	104
cb.	5.0	104
N	5.0	10.4
0 – 4.0' = W. edge Exist culvert		
N	4.4	110
+13.5' in ℄ top culvert	5.51	9 90
+13.5 " ℄ Flow line	8.04	7 37
cb.	5.5	9.9
¼	5.0	10.4
℄	4.8	10.6
¼	4.6	10.8
cb.	4.5	109
+13	4.4	110
S	5.0	104
0+00 = N.L. Rosecrans		
S	4.6	10.8

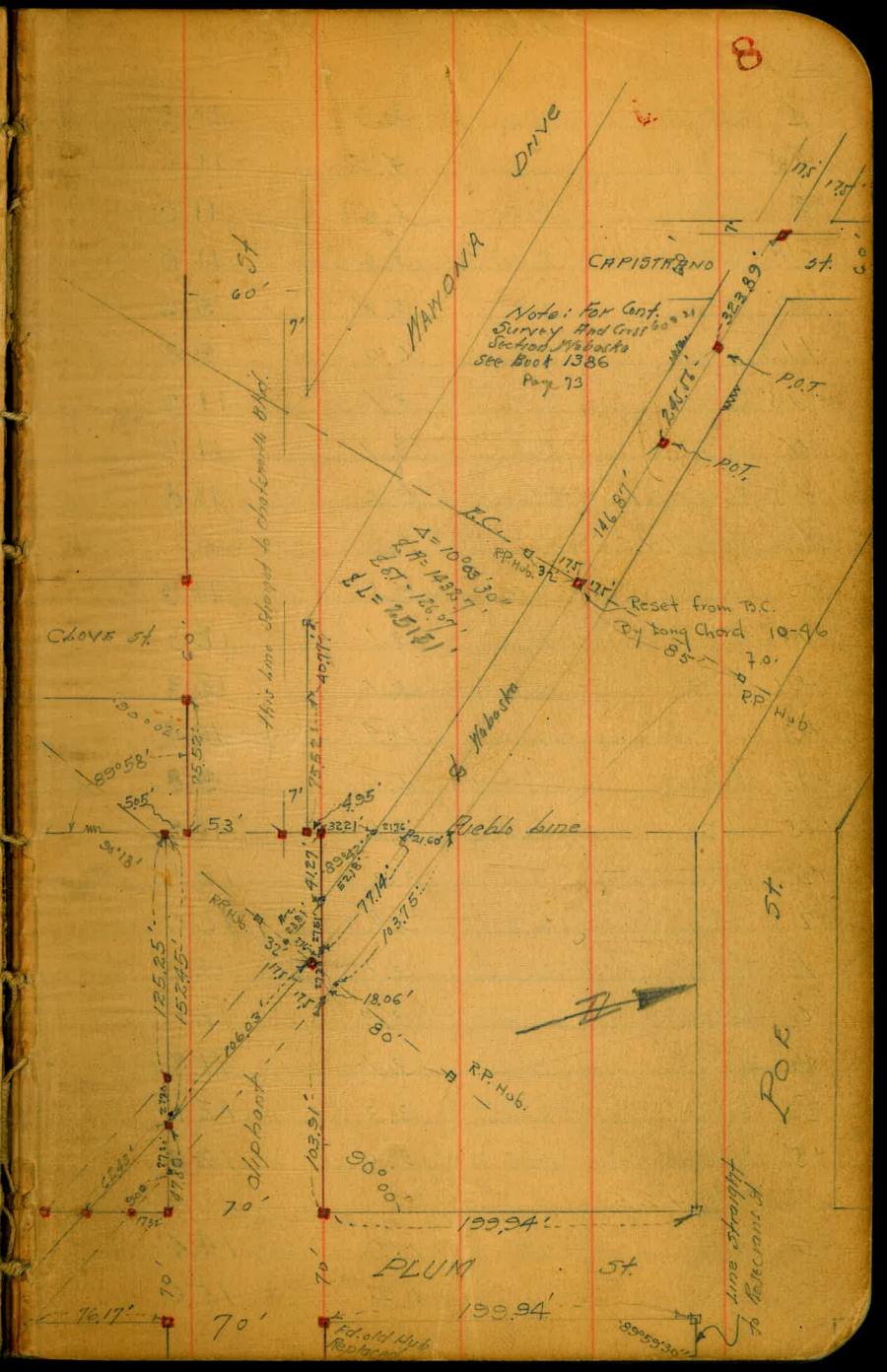
6




CLOVE ST.
MACAULAY
NEWHALL ST.
PLUM
Olphant
Millo vt
Fd Redwood Hub 1' deep
Note; Hubs set or Replaced = ⊡
Old Hub Replaced
Set Hub
200.21'
202.82'
200.07'
200.09'
96.04'
42.95'
205.31'
199.24'
201.31'
137.01'
200.13'
199.94'
PUBLIC ALLEY
See P-8

15.41

cb	4.5	109
4	4.1	107
2	4.8	106
4	4.7	107
cb	7.1	83
+8	7.1	83
+15	2.6	128
N	4.3	111
	0+25	
S	3.5	119
N	3.1	123
+3	3.6	118
+6	6.3	91
cb.	6.2	92
+7	5.6	98
2	4.7	107
2	4.7	107
4	4.4	110
cb.	4.1	113
+13	3.7	117
S	4.4	110
	0+50	
S	4.1	113
+5	3.3	121
cb.	3.8	116
4	4.1	113



1541 Macomb Co.

E	3.9	11.5
+5	4.3	11.1
¼	3.6	11.8
cb.	3.6	11.8
+2	5.8	9.6
+13	6.0	9.4
+15	3.7	11.7
N	3.7	11.7
+5	3.6	11.8
1400		
-5	3.5	11.9
N.	3.1	12.3
+1	3.1	12.3
+3	5.4	10.0
+13	5.6	9.8
+15	3.6	11.8
cb.	3.3	12.1
¼	3.4	12.0
E	3.1	12.3
¼	3.3	12.1
cb.	3.7	11.7
S	3.3	12.1
+5	3.0	12.4
1425		
-5	1.0	14.4
S	0.4	15.0

1541

+5	0.4	150
+9	2.1	133
+15	2.9	125
cb.	3.0	124
¼	2.6	128
E	2.7	127
¼	2.8	126
cb.	3.3	121
+1	5.2	102
+7	5.2	102
+15	2.7	127
N	2.7	127
+5	3.1	123
1450		
-5	2.1	133
N	2.0	134
+2	1.7	137
+10	5.2	102
cb.	5.0	104
+3	4.8	106
+4	2.6	128
¼	2.4	130
E	2.0	134
¼	2.0	134
cb.	2.0	134
+14	1.8	142

		1541		Macaulay			2347		
S			1.0	14.4	℄			8.6	14.9
+5			2.7	12.7	℄			8.9	14.6
T.P.	9.73	23.47	1.67	13.74	℄			9.0	14.5
	1+75				cb.			9.4	14.1
-5			10.3	13.2	S			8.9	14.6
S			10.0	13.5	+5			8.9	14.6
+10			9.0	14.5		2+25			
cb.			9.7	13.8	-5			8.6	14.9
℄			9.4	14.1	S			8.6	14.9
℄			9.5	14.0	cb.			8.7	14.8
℄			9.7	13.8	℄			8.4	15.1
+3			9.8	13.7	℄			8.4	15.1
+7			13.0	10.5	+5			8.5	15.0
cb.			13.1	10.4	℄			7.8	15.7
+8			12.8	10.7	+5			7.7	15.8
+12			9.5	14.0	cb.			11.8	11.7
N			10.2	13.3	+10			12.6	10.9
+5			10.5	13.0	+14			7.4	16.1
	2+00				N			7.2	16.3
-5			8.6	14.9	+5			7.2	16.3
N			8.8	14.7		2+50			
+7			8.2	15.3	-5			6.6	16.9
+11			12.7	10.8	N-2			6.3	17.2
cb.			12.8	10.7	N			12.0	11.5
+3			11.9	11.6	+12			11.9	11.6
+5			8.7	14.8	cb.			7.9	15.6

2347 Macaulay

¼			6.3	17.2
+2			6.3	17.2
+3			8.0	15.5
℄			7.8	15.7
¼			7.6	15.9
5 cb.			8.2	15.3
S			8.6	14.9
+5			8.6	14.9
	2+75			
-5			7.2	16.3
S			6.9	16.6
+7			6.9	16.6
+10			7.9	15.6
cb.			8.3	15.2
¼			7.0	16.5
℄			7.2	16.3
+5			7.5	16.0
+6			5.7	17.8
¼			5.7	17.8
cb.			7.3	16.2
+6			11.4	12.1
N			12.0	11.5
+2			11.7	11.8
+3			6.2	17.3
+5			6.3	17.2
	3+00'' = ℄ Line	Locust	18' cbs. 85.75	

-5			5.3	18.2
N			5.4	18.1
+2			5.6	17.9
+4			11.5	12.0
+15			10.9	12.6
cb.			7.2	16.3
¼			5.1	18.4
+2			5.1	18.4
+3			6.6	16.9
℄			6.3	17.2
¼			6.3	17.2
cb			6.8	16.7
S			6.8	16.7
+5			6.8	16.7
	℄ cb.			
-5'			6.4	17.1
S			6.4	17.1
cb.			6.4	17.1
+2			5.5	18.0
¼			5.6	17.9
℄			5.4	18.1
+5			5.7	18.8
¼			5.0	18.5
+6			5.8	17.7
cb.			11.0	12.5
+3			11.3	12.2

	23.47	Macaulay	
+10		11.6	11 9
+15		9.9	13 6
+17		4.9	18 6
N		4.9	18 6
+5		4.9	18 6
	E ¼ Locust		
-10		4.7	18 8
-5		4.7	18 8
N		8.4	15.1
+6		11.1	12 4
+15		10.7	12 8
cb.		7.0	16 5
+4		5.3	18.2
¼		4.8	18.7
L		5.1	18.4
¼		5.2	18.3
+7		5.4	18.1
cb.		6.0	17 5
S		6.1	17 4
+5		6.1	17.4
	L		
-5		5.8	17 7
S		5.8	17 7
cb.		5.7	17 8
+5		5.0	18 5
¼		4.9	18.6

	23.47	Macaulay	
L		4.8	18.7
¼		4.6	18 9
+7		5.4	18 1
cb.		6.5	17 0
+3		7.4	16.1
+4		10.2	13 3
N		10.9	12 6
+2		10.9	12 6
+6		4.3	19.2
+10		4.3	19 2
	W ½		
-10		4.2	19 3
-5		4.2	19 3
-3		11.1	12 4
N		11.1	12 4
+15		10.1	13.4
+16		7.4	16 1
cb.		6.5	17 0
+5		4.8	18 7
¼		4.4	19 1
L		4.7	18 8
¼		4.5	19 0
+7		4.7	18 8
cb.		5.5	18 0
S		5.7	17 8
+5		5.6	17 9

23.47 Macaulay St.

	H cb.		
-5	5.4	181	
S	5.5	180	
cb.	5.3	182	
+3	4.9	186	
¼	4.6	189	
L	4.7	188	
+5	4.8	187	
¼	4.1	194	
cb.	6.1	174	
+2	6.9	166	
+3	9.4	141	
N	10.8	127	
+6	11.0	125	
+7	4.0	195	
+10	4.0	195	
	W line Locust St. = 0+00		
-10	3.6	199	
-5	3.5	200	
-2	10.0	135	
N	10.0	135	
+13'	10.3	132	
+14'	6.3	172	
cb.	4.9	186	
¼	3.4	201	
+2	3.1	204	

23.47

+3		4.4	191
L		4.4	191
¼		4.4	191
cb.		4.4	191
¾		3.7	198
S		3.7	198
+5		3.8	197
	0+25		
-5		3.3	202
S		3.4	201
+15		3.3	202
cb.		3.8	197
¼		3.6	199
L		3.8	197
+4		3.8	197
+6		2.5	210
¼		2.8	207
cb.		3.8	197
+2		9.9	136
+16		8.8	147
N		6.5	170
+2		3.1	204
+5		3.1	204
	0+50		
-5		2.3	212
-3		2.3	212

23.47 Macauley

N			5.1	18.4	+5			9.1	14.4
+2			8.7	14.8	+10			6.3	17.2
+13			9.0	14.5	+13			2.0	21.5
+15			3.8	19.7	+15			2.0	21.5
cb.			2.9	20.6		1+00			
¼			2.2	21.3	-15			1.5	22.0
+2			2.2	21.3	-13			1.5	22.0
+4			3.2	20.3	-10			7.3	16.2
2			3.1	20.4	5			8.9	14.6
¼			2.8	20.7	N			8.8	14.7
cb.			3.0	20.5	+5			5.6	17.9
S			2.8	20.7	cb.			2.5	21.0
+5			2.8	20.7	¼			1.1	22.4
	0+75				+2			0.8	22.7
-5			2.3	21.2	+4			1.7	21.8
S			2.1	21.4	2			1.6	21.9
cb.			2.4	21.1	¼			1.5	22.0
¼			2.3	21.2	cb.			1.5	22.0
2			2.5	21.0	S			1.5	22.0
+4			2.5	21.0	+5			1.6	21.9
+6			1.4	22.1		1+25			
¼			1.7	21.8	-5			0.9	22.6
cb.			2.4	21.1	S			0.9	22.6
+3			4.7	18.8	cb.			0.9	22.6
+13			8.7	15.3	¼			0.8	22.7
N			9.2	14.3	2			1.0	22.5

		2347	Macaulay	
+3			1.0	225
℄			1.2	223
+6			4.3	192
cb.			4.6	189
+11			4.6	189
+13			8.4	151
N			8.6	149
+8			8.1	154
+13			0.8	227
+15			0.8	227
T.P	8.32	31.44	0.35	2312
	1+50			
-15			8.4	230
-13			8.4	230
-3			15.5	15.9
N			15.9	155
+8			16.5	149
+10			10.6	208
cb.			9.5	21.9
℄			8.7	227
+3			8.0	234
℄			8.4	230
℄			8.2	232
cb.			8.3	231
S			8.5	229
+5			8.5	229

		3144	Macaulay	Jr.
	1+75			
-5			7.9	23.5
S			7.8	236
cb.			7.4	240
℄			7.7	237
℄			7.6	238
+5			7.1	243
℄			7.6	238
cb.			8.6	228
+5			9.8	216
+8			15.0	164
N			15.9	155
+3			15.9	155
+7			8.0	23.4
+10			8.0	23.4
	2+00			
-15			6.9	24.5
-10			6.9	245
-9			9.1	223
N			14.6	16.8
+12			15.5	15.9
cb			13.9	17.5
+2			8.1	233
℄			6.5	249
℄			6.5	249
℄			6.8	24.6

cb		6.8	246
S		7.0	244
+5		7.2	242
	2+30		
-5		6.1	253
S		6.1	253
cb.		6.1	253
¼		6.3	251
℄		6.3	251
+3		5.9	255
+6		14.9	165
¼		14.9	165
cb.		14.4	170
+16		12.5	189
N		10.6	208
+5		6.1	253
+10		6.1	253
	2+50		
-10		5.9	255
-4		5.9	255
N		8.3	231
+5		12.7	18.7
cb.		14.0	174
+5		14.7	167
¼		6.6	248
+4		4.8	266

℄		5.4	260
¼		5.7	257
cb.		5.6	258
S		5.7	257
+5		5.9	255
	2+75		
-5		5.5	259
S		5.4	260
cb.		4.8	266
¼		4.9	265
℄		4.7	267
+5		3.9	275
¼		4.7	267
+7		7.7	237
cb.		13.9	175
+10		13.5	179
N		9.3	221
+2		4.9	265
+10		4.9	265
	3+00.27 = E.L. Evergreen 18' cbs 8.5' ¼s		
-5		4.1	273
N		4.8	266
+2		4.8	266
+3		11.5	199
cb.		12.4	190
+3		10.8	206

31.44 Macaulay

+5	4.2	27 2
¼	3.6	27 8
℄	4.1	27 3
¼	3.9	27 5
cb.	4.6	26 8
S	4.9	26 5
+5	4.9	26 5
E cb		
-5	4.4	27 0
S	4.3	27 1
cb.	4.0	27 4
¼	3.3	28.1
℄	3.2	28 2
¼	3.4	28 0
+2	3.4	28 0
cb	11.0	20 4
+14	11.5	19.9
N	8.2	23 2
+2	3.0	28 4
+10	3.0	28.4
E ¼ = E edge Wooden Bridge		
-5	2.7	28.7
N	3.3	28.1
+1 = Floor Wooden Bridge	3.37	28.07
+1	11.4	20.0
cb	10.8	20.6

31.44

+1	10.8	20.6
+1 on Send Bridge	3.40	28 04
¼	3.0	28 4
℄	2.8	28.6
¼	2.8	28.6
cb.	3.2	28 2
S	3.8	27 6
+5	4.1	27.3
℄		
-5	3.8	27 6
S	3.6	27 8
cb.	2.9	28 5
¼	2.5	28 9
℄	2.5	28 9
¼	2.9	28 5
+7.5 - S end on Floor Bridge	3.40	28 04
cb.	10.8	20 6
+17	11.4	20 0
+17 on N end on Floor Bridge	3.40	28.04
N	3.4	28.0
+5	3.4	280
N ¼		
-5	2.9	28 5
N	2.6	28 8
+2	2.6	28 8
+3	9.5	21.9

31.44

+10		10.9	205
cb.		10.1	213
+1 on Wood Wing Wall		3.9	275
+5		4.7	267
℄		2.5	289
ℓ		2.4	290
℄		2.4	290
cb.		3.0	284
S		3.7	277
+5		4.0	274
	W cb Evergreen		
-5		3.8	276
S		3.6	278
cb.		2.9	285
+5		2.2	282
℄		2.2	282
ℓ		2.2	282
+6		2.2	282
℄		4.0	274
cb.		9.8	216
+6		10.8	206
+12		10.4	210
+15		9.1	223
+16		2.5	289
N		2.5	289
+5		2.7	292

31.44

W line EVERGREEN St. = 0+00

-5		1.9	295
-2		1.9	295
N		5.5	259
+5		8.9	225
+15		10.3	211
cb.		9.4	220
℄		3.2	282
+2		1.7	297
ℓ		1.5	299
℄		1.7	297
+3		1.7	297
cb.		2.6	288
+5		3.1	283
S		3.5	279
+5		3.6	278
	0+2.5		
-5		3.3	281
S		3.3	281
cb.		2.7	287
+5		1.4	300
℄		1.4	300
ℓ		0.8	306
+6		1.4	300
℄		2.3	291
+6		8.0	234

		31.44	Macaulay		
cb.			9.0	22.4	
+16			7.7	23.7	
N			6.2	25.2	
+8			1.6	29.8	
+10			1.6	29.8	
+20			0.4	31.0	
T.P.	7.10	37.10	1.44	30.00	3 Nails in Pole + Macaulay Sta. Evergreen
	0+50				
-20'			5.8	31.3	
N			6.0	31.1	
+4			11.0	26.1	
+11			13.3	23.8	
cb.			12.9	24.2	
+5			12.4	24.7	
¼			8.1	29.0	
+2			6.1	31.0	
℄			6.1	31.0	
¼			6.1	31.0	
+5			8.1	29.0	
cb.			8.6	28.5	
S			8.5	28.6	
+5			8.7	28.4	
	0+75				
-10			8.8	28.3	
S			8.8	28.3	
cb.			8.5	28.6	
¼			6.4	30.7	

		37.10			
℄			5.7	31.4	
¼			5.8	31.3	
+5			11.9	25.2	
cb.			12.2	24.9	
+10			13.0	24.1	
N			5.8	31.3	
+20			4.5	32.6	
0+50 = ℄ Euc. tree on N 15' dia			5.5		6 4.5' Back
+51 = ℄ " " " " 10"			5.5		1' "
+55 = ℄ " " " " 10" dia			5.5		1' "
+63 = " " " " 12" "			5.7		1' "
+67 = " " " " 15' "			5.7		1' "
+79 = " " " " 20' "			5.4		1' "
+86 = " " " " 10" "			5.8		1' "
+89 = " " " " 15" "			5.8		1' "
+93' = " " " " 15' "			5.9		1' "
+97 = " " " " 10' "			5.9		1' "
+67 = ℄ Date Palm on N 3' dia.			4.9		11' Back
+81 = " " " " " "			4.6		12' "
	1+00				
-20			4.6	32.5	
-2			5.7	31.4	
N			7.7	29.4	
+5			11.8	25.3	
+13			12.6	24.5	
+15			11.5	25.6	

cb.		5.3	318
¼		5.1	320
℄		5.5	316
¼		5.5	316
+4		5.1	320
cb.		7.2	299
+5		8.1	290
S		8.2	289
+10		8.4	287

1+16.33 = opp N.E. cor. Nebraska

Sketch Page 23

-10		7.9	292
S		7.8	293
cb.		7.4	297
¼		5.9	312
℄		5.7	314
¼		5.3	318
cb.		4.6	325
+5		4.2	329
+8		12.4	247
N		11.7	254
+4		11.0	261
+10		5.1	320
+20		4.7	329

1+50

-40		2.5	346
-25		3.8	333

-21		5.4	317
-19		9.0	281
-17		10.4	267
-15		10.8	263
-14		12.1	250
-11		12.0	251
-10		8.3	288
-3		5.2	319
N		3.2	339
cb.		4.5	326
¼		5.3	318
℄		5.9	312
¼		5.8	313
cb.		6.3	308
S		6.1	310
+15		5.3	318

1+75.23 = opp. ℄ Nebraska

-15		2.5	346
S		4.2	329
cb.		5.6	315
¼		5.7	314
℄		5.2	319
¼		4.9	322
cb.		4.1	330
N		3.2	339
+8		2.5	346

3710 Macaulay

+12			11.4	25 7
+17			11.3	25 8
+19			10.1	27.0
+23			10.3	26 8
+30			4.1	33 0
+40			3.6	33 5
	1+90			
-50			4.6	32 5
-39.			5.2	31 9
-34			9.7	27.4
-28			10.9	26 2
-24			11.1	26 0
-22			2.0	35 1
N			2.9	34 2
cb			4.6	32 5
¼			4.4	32 7
E			4.2	32 9
¼			4.2	32 9
cb.			2.8	34 3
S			0.8	36 3
+15			+0.9	38.0
	2+10			
-15			+5.9	43 0
S			+4.4	41 5
cb.			+1.9	39.0
¼			+0.5	37.6

3710

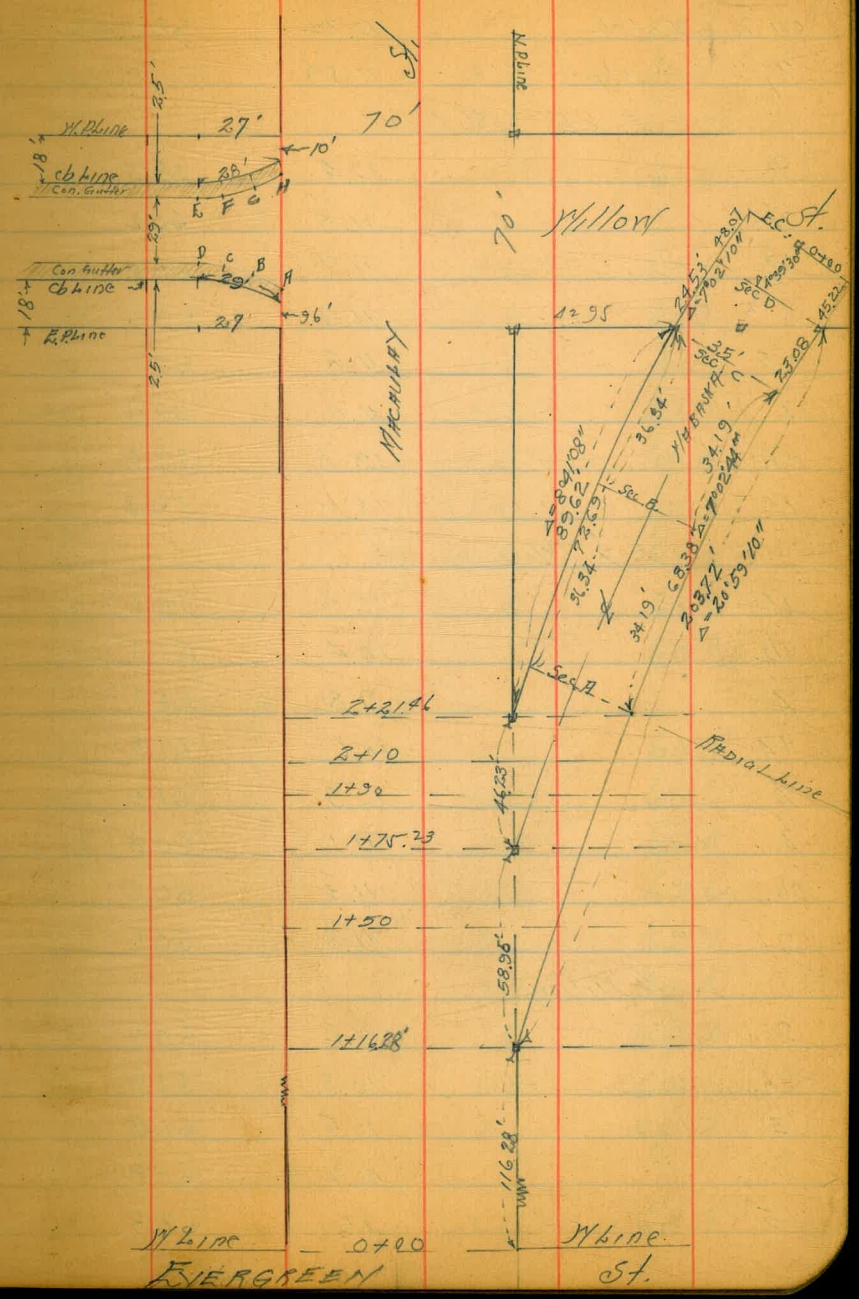
E		0.5	36 6
+5		0.5	36 6
¼		1.6	35 5
cb.		2.9	34 2
+5		3.6	33 5
+11		2.1	35.0
N		2.1	350
+17		2.1	350
+30		1.4	35 7
+32		8.0	29.1
+36		10.4	26 7
+47		10.0	27 1
+49		9.4	27.7
+52		5.7	31.4
+65		4.5	32 6
2+21.46 = opp. NW Cor Nebraska st.			
-85'		2.9	34 2
-69'		4.4	32 7
-65		8.8	28 3
-60'		10.0	27 1
-53		10.0	27 1
-47		8.1	29 0
-40		1.7	35 4
-30		1.2	35 9
-20		2.0	35 1
N		1.8	35 3

		37.10	Macaulay	37
+5			2.6	34.5
+11			2.5	34.6
cb.			0.9	36.2
T.P.	12.65	48.79	0.96	36.14
¼			10.2	38.6
℄			9.4	39.4
¼			8.0	40.8
cb.			6.4	42.4
S			4.9	43.9
+15			3.6	45.2
	2+50			
-15			+1.8	50.6
S			+1.2	50.0
cb.			0.8	48.0
¼			1.6	47.2
℄			2.6	46.2
¼			2.7	46.1
+3			4.9	43.9
cb.			5.7	43.1
N			8.8	40.0
+15			11.8	37.0
+20			12.6	36.2
T.P.	12.74	61.09	0.44	48.35
	2+75			
-20			18.8	42.3
N			15.4	45.7

		61.09	Macaulay	
cb.			13.2	47.9
+5			13.6	48.5
¼			11.1	50.0
℄			10.2	50.9
¼			9.3	51.8
cb.			8.2	52.9
S			7.7	53.4
+15			7.0	54.1
	2+85			
-15			5.5	55.6
S			5.7	55.4
cb.			6.2	54.9
¼			7.0	54.1
℄			7.8	53.3
¼			8.7	52.4
+3			9.9	51.2
cb.			10.5	50.6
N			12.9	48.2
+20			16.4	44.7
	2+99.99 = ℄ Line Willow 18' cbs 8.5" ¼			
N			9.1	52.0
cb.			6.5	54.6
+6			5.8	55.3
¼			4.8	56.3
℄			4.9	56.2
¼			3.8	57.3

6109

cb.			2.6	58.5
+12			1.0	60.1
S			1.1	60.0
T.P.	11.90	71.96	10.3	60.06
A on top cb.			11.90	60.06
A " Con Gut at cb.			12.71	59.25
A " " " at edge			12.55	
B " top cb.			12.23	
B " on Con. Gut. at cb.			13.03	
B " " " " edge			12.87	
C " top cb.			12.71 .87	59.25
C " Gut. at cb.			13.53	58.43
C " " at edge			13.35	
D = E.C. on cb.			13.05	58.91
D " on Con. Gut. at cb.			13.95	58.01
D " " " " edge			13.69	
E " top cb.			12.01	59.95
" " Con Gut at cb.			13.84	59.12
" " " " " edge			12.68	
F " top cb.			11.67	60.29
F " Con Gut at cb.			12.48	59.48
F " " " at edge			12.38	
G " top cb.			11.27	
G " Con Gut at cb.			12.11	
G " " " " edge			11.98	
H - end cb. on top			10.91	61.05



on Cen Gut. at cb.		11.72	6024
" " 4" edge		11.59	
	E. cb. Willow		
S		12.4	595
cb.		11.8	601
¼		11.7	602
℄		11.9	600
+5		11.8	601
½		11.0	609
cb.		12.1	598
N.		15.1	568
	E ½ Willow St.		
N		12.8	591
cb.		10.4	615
¼		9.8	621
+4		10.6	613
℄		10.9	610
¼		11.1	608
cb.		11.3	606
S		11.8	601
	℄ Willow		
S		11.2	607
cb.		10.8	611
¼		10.5	614
℄		10.0	619
+5		9.6	623

½		8.5	634
+5		8.2	637
cb.		8.7	632
N		10.7	612
	W ½		
N		8.8	631
+13		7.0	649
+16		7.0	649
cb.		8.2	637
¼		9.5	624
℄		9.4	625
¼		9.9	620
cb.		10.2	617
S		11.1	608
	W cb. Willow St.		
S		11.2	607
+6		10.8	611
cb.		9.5	624
¼		9.3	626
℄		9.2	627
¼		9.1	628
cb.		8.5	634
+10		5.8	661
N		7.2	647
	N.E. Willow		
N		3.6	683

7196

+13			1.7	702
cb.			6.0	659
+5			7.5	644
½			7.7	642
E			7.7	642
¼			8.1	638
cb.			8.2	637
N.S			7.0	649
Left SW NW Prop Hub.		2"x2" Redwood	3.66	683.0 Willow & Macauley St
T.P.	0.51	60.57	11.90	60.06
Cbk. on SW. B.P. Willow & Harrell			8.34	51.72 52.26 = BM. 0.03 = Error.

Walker.
Wm Bliss
Drebert
Mattoon
3-21-30

SURVEY And Cross Section
NABAGKA St. 35' Wide No cbs. or gts.
From Macaulay to Copistrano St.

	12.35	42.35		30.00	B.M. 3 Nails in Pole SW. Evergreen & Macaulay Page 19
	SEC. A sketch P-23				
-10			3.7	38 7	
-5			6.0	36 4	
W			6.2	36 2	
℄			6.8	35 4	
E			6.8	35 6	
	SEC. B				
-60'			4.5	37 9	
-31'			9.5	32 9	
-25'			14.8	27 6	
-20'			15.3	27 1	
-16'			14.2	28 2	
-13'			9.3	33 1	
-7'			6.0	36 4	
E			5.9	36 5	
℄			6.2	36 2	
W			5.5	36 9	
+9'			+0.3	42 7	
+15'			+1.7	44. 1	
	Sec C				
W			4.3	38 1	
+5			5.0	37 4	
℄			5.5	36 9	
E			5.1	37.2	

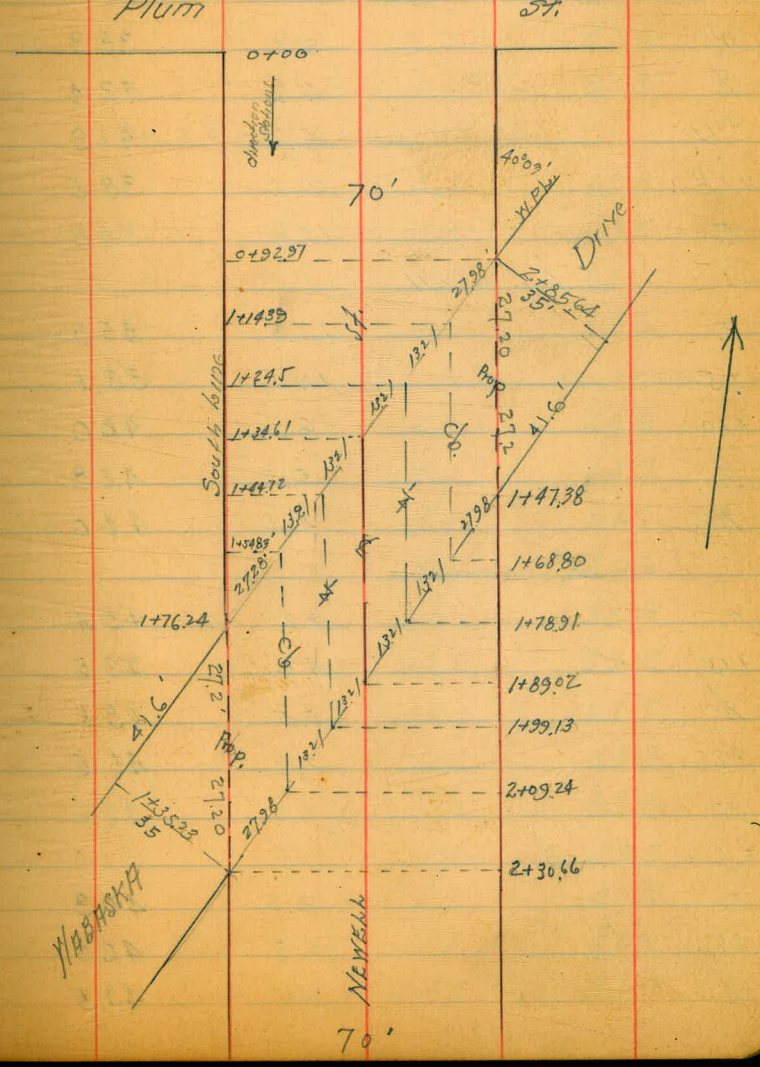
		42.35		
+8			4.7	37. 7
+22			10.0	32 4
+23			13.0	29 4
+30			14.3	28 1
+36			13.6	28 8
+40			8.1	34 3
+60			3.3	39. 1
	Sec D			
-60'			3.2	39 2
-44'			7.2	35 2
-40'			11.9	30 5
-30'			13.9	28 4
-23'			13.9	28 4
-22'			9.2	33 2
-16'			8.4	34 0
-9'			4.6	37 8
E			4.4	38 0
℄			5.1	37 3
W			4.1	38 3
	E.C. = 0+00	Note: all stations are ℄		
W			3.5	38 9
℄			3.4	39 0
E			3.9	38 5
	0+30.06	Section on NLY' Line Willow		
E			2.9	39.5
℄			3.0	39 4
W			3.0	39 4

42.35 Nebraska Dr.

	0+50			
-25			+13.2	56.6
-13'			+9.0	51.4
-8'			+4.3	46.7
-6			-0.5	42.9
W			2.5	39.9
℄			2.6	39.8
E			2.6	39.8
+7 = Approx. N.L. Willow			5.2	37.2
	1+00			
T.P	9.23	48.64	2.94	39.41
-60			4.9	43.7
-31'			10.7	37.9
-25'			18.0	30.6
-11'			16.9	31.7
E			8.2	40.4
℄			7.8	40.8
W			8.0	40.6
+4			7.1	41.5
+10			0.1	48.5
+25'			+4.9	53.5
	1+35.23	Sketch on Rt. Page		
-25			+8.8	57.4
-11			+2.2	50.8
-9'			2.3	46.3
W			7.3	41.3

48.64

℄	7.2	41.4
+11	7.4	41.2
-13	10.6	38.0
+27.2 = Line Newell St. ?	13.7	34.9



E.	13.7	34.9
+12 on diag.	6.8	41.8
℄	6.7	41.9
W	6.1	42.5
5 cb. Newell		
W	9.7	38.9
℄	6.2	42.4
+14	6.7	41.9
+18	10.1	38.5
E	13.8	34.8
S ¼ Newell		
E	12.8	35.8
7.5	10.5	38.1
+10	6.6	42.0
℄	5.8	42.8
W	4.6	44.0
℄ Newell		
W	3.2	45.4
+15	5.0	43.6
℄	5.5	43.1
+22	7.0	41.6
E	11.0	37.6
N ¼		
E	8.3	40.3
+5	6.3	42.3
℄	5.1	43.5

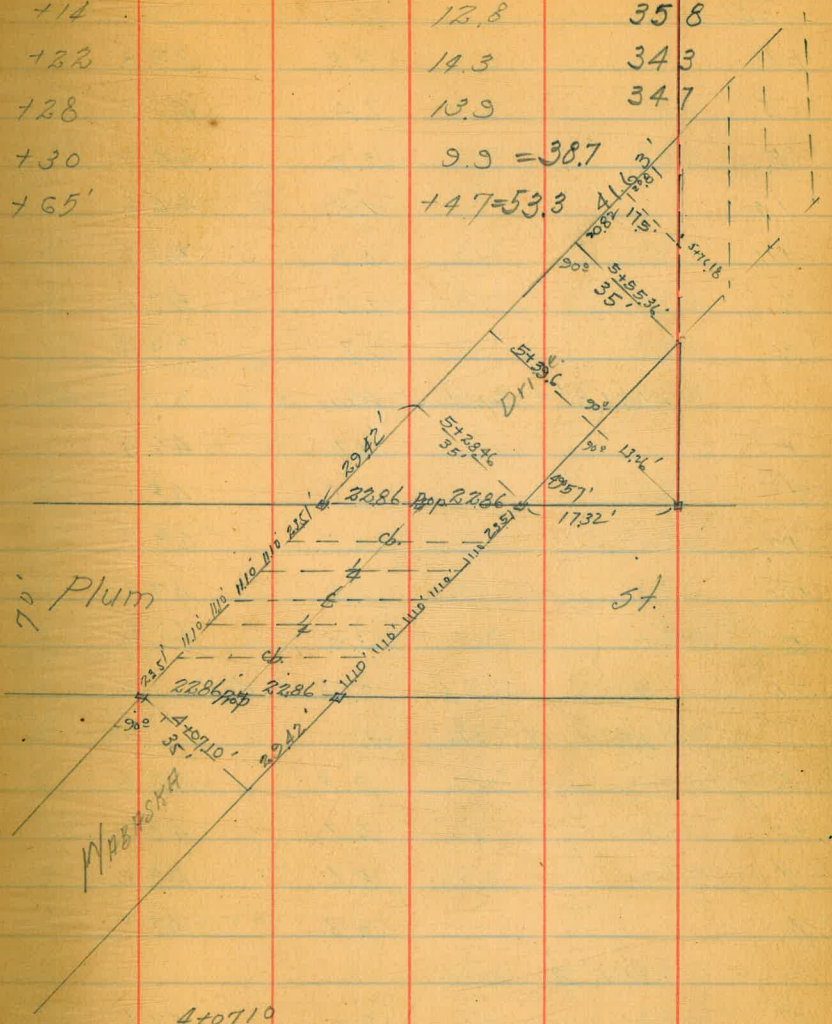
+13	4.6	44.0
W	2.8	45.8
N cb.		
W	4.2	44.4
℄	4.9	43.7
+20	6.0	42.6
E	7.8	40.8
2+64.84 = N line Newell & ℄ Station		
E	8.3	40.3
+9	5.3	43.3
℄	4.5	44.1
W	4.4	44.2
2+85.64 Section Rt. ∆ to Wabaska 35' wide		
W	4.4	44.2
℄	4.1	44.5
+12	4.5	44.1
E	8.0	40.6
+5	10.1	38.5
+8	10.4	38.2
+11	13.9	34.7
+15	15.3	33.3
+21	14.8	33.8
+24	11.3	37.3
+35	8.1	40.5
+50	1.3	47.3
+65	+4.7	53.3

48.64 — Wabaska Dr.

	3+25		
-65'		+3.8	524
-50		3.1	455
-30'		10.3	383
-26		14.1	345
-16		13.9	347
-14		9.9	387
-5		8.7	399
E		6.2	424
+5		3.6	450
C		3.3	453
W		3.5	451
+4		2.4	462
+6		+1.3	499
+13		+5.0	536
+25'		+8.9	575
	3+50		
-25'		+10.3	589
-10'		+5.2	538
-5		0.8	478
W		2.9	457
C		2.6	460
+12		2.7	459
E		5.8	428
+5		9.0	396
+12		9.4	392

48.64

+14	12.8	358
+22	14.3	343
+28	13.9	347
+30	9.9 = 38.7	
+65'	+4.7 = 53.3	41



4+07.10

-65	+2.0	506
-60	0.5	481
-40	6.4	422
-31	13.0	356

48.64 Mabaska Dr.

-74'		12.9	35.7
-16		8.8	39.8
-5'		7.4	41.2
E		3.9	44.7
+4		1.8	46.8
+11		0.9	47.7
℄		1.2	47.4
W		1.7	46.9
	4+21.81 = Prop. Line Plum	See Sketch p. 29	Sections Parallel to Plum.
W		1.7	46.9
℄		0.5	48.1
+7		+0.1	48.7
+20		1.3	47.3
E		3.0	45.6
T.P	8.99 5665	0.98	47.66 ← ℄ Hub. Mabaska Sk. 4+21.81 for chk. on this Hub see E-46
	South cb. Plum St.		
E		9.8	46.8
+3		6.7	49.9
℄		8.6	48.0
W		9.1	47.5
	SLY ℄		
W		9.0	47.6
℄		8.3	48.3
+20		8.4	48.2
E		9.7	46.9
	℄ Plum		

5765

E		9.6	47.0
+3		8.3	48.3
℄		8.2	48.4
W		8.3	48.3
	NLY ℄ Plum		
W		8.3	48.3
℄		8.1	48.5
+19		8.1	48.5
E		10.2	46.4
	NLY cb.		
E		10.5	46.1
+5		8.0	48.6
℄		8.0	48.6
W		7.8	48.8
	NLY Line		
W		8.1	48.5
℄		7.4	49.2
+12		7.5	49.1
E		13.0	43.6
	5+28.44		
E		13.0	43.6
+9		7.6	49.0
℄		7.0	49.6
W		6.6	50.0
+2		6.2	50.4
+11		+2.1	58.7

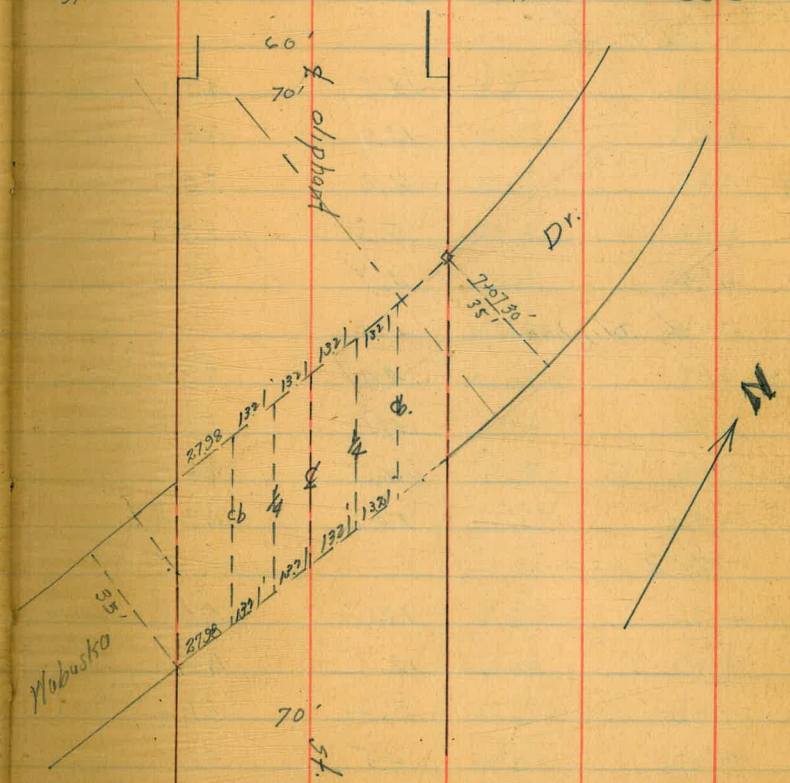
56.65 Wabasko Dr.

+25	+7.2	638
5+39.6 Sketch P-29		
-25	+6.6	632
-10	+1.2	578
-5	3.4	532
W	6.9	497
℄	6.7	499
+8	7.3	493
E	13.4	432
+4	14.3	423
+8	18.8	378
+13.26 = Prop. Cor. Oliphant & Plum	18.7	379
5+55.36 = Pt. of ℄ Wabasko		
E	13.6	43.0
+12	6.9	497
℄	6.3	503
W	6.5	501
+4	6.0	506
+8	1.0	556
+14	+2.4	59.0
+25	+5.4	620
5+76.18		
-25	+5.5	62.1
-9	+0.1	565
-4	5.4	512
W	6.9	503

56.65

31

℄	6.3	503
5+55.36 Section on line Oliphant		
E	13.6	430
+18	7.0	49.6
℄	6.3	503
W	6.1	505



Nebraska Dr.

S½ Y cb. oliphant

W	4.9	51.7
℄	6.0	50.6
+3	6.3	50.3
+12	13.5	43.1
E	13.6	43.0

S½ Y ¼

E	13.5	43.1
+6	13.0	43.6
+22	6.6	50.0
℄	5.9	50.7
W	4.7	51.9

℄ oliphant

W	4.4	52.2
℄	5.5	51.1
+20	12.1	44.5
E	13.2	43.4

N½ Y ¼

E	12.7	43.9
+8	13.1	44.5
℄	5.2	51.4
W	4.5	52.1

N½ Y cb.

W	4.9	51.7
℄	4.5	52.1
+20	13.0	44.6

E	12.0	44.6

6+85.08 = N½ Y line oliphant section on line oliphant

E	11.9	44.7
+12	11.2	45.4
℄	4.5	52.1
W	4.4	52.2

Note: Sections in this curve are on Radial line

7+07.3 Sketch P-31

W	4.4	52.2
℄	4.2	52.4
+10	10.5	46.1
E	10.8	45.8
+7	10.7	45.9
+17	15.0	41.6
+25	16.7	39.9
+30	11.0	45.6
+45	7.9	48.7
+65'	3.5	53.1

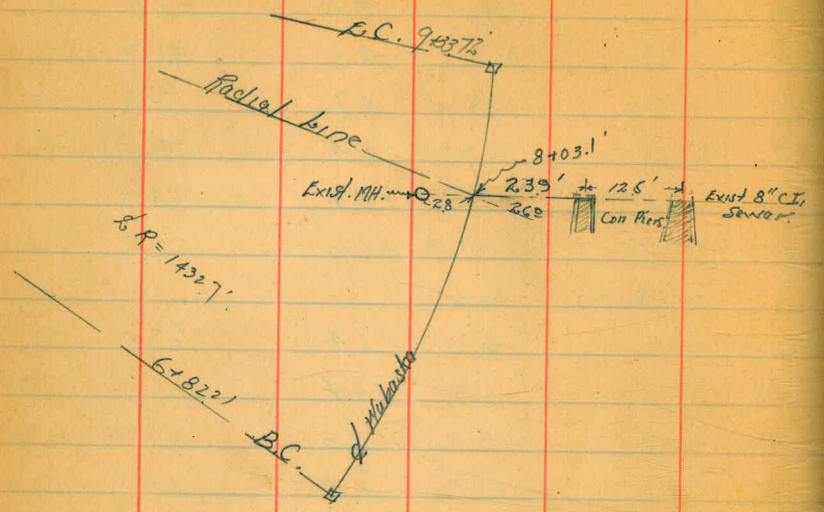
7+25

-65	3.0	53.6
-40	9.4	47.2
-33	10.5	46.1
-26	16.6	40.0
-21	16.6	40.0
-17	14.6	42.0
-13	10.6	46.0
E	10.4	46.2

+6	10.0	466
℄	3.9	527
W	4.5	521
+8	3.9	527
+14' = Approx. time oliphant	+0.2	56.8
7+50		
-25'	+3.8	604
-20'	+2.4	590
-12'	2.6	540
W	4.1	525
℄	3.9	527
+5	8.2	484
+9	9.8	468
+12	15.7	409
+17	15.7	409
+23	14.4	422
+27	11.7	449
+38	10.7	459
+65	3.0	536
7+75		
-65	1.2	554
-38'	9.7	469
-25'	10.5	462
-17	14.4	422
-4	14.4	422
℄	9.5	471

+8	8.9	47.7	
+15	3.8	528	
℄	3.8	528	
W	3.7	529	
+7	2.4	532	
+19	+4.4	61.0	
+25	+6.0	62.6	
8+00			
-25'	+6.4	63.0	
-17	+4.4	61.0	
-7	3.3	533	
W	3.5	531	
℄	3.5	531	
+2	3.7	529	
+12	8.9	47.7	
℄	14.4	422	
+10	14.4	422	
+15	8.8	47.8	
+35	9.4	472	
+65	1.5	551	
on Rim Exist. M.H.	3.84	52.81	Location P-34
" Floor " " "	10.05	46.60	
33.9' East MH on top Pipe	8.73	47.92	= ℄ Pier.
36.4' " " " " "	8.40	48.25	- ℄ Pier.
76.4 " " " " "	7.36	48.29	
8+25			

56.65 Wabaska Dr.



8+25

-65	5.1	51.5
-40	8.3	48.3
-23	8.8	47.8
-15'	13.9	42.7
-5	13.9	42.7
E	11.3	45.3
+14	9.1	53.5
℄	3.2	53.4
W	3.3	53.3
+8	2.6	54.0
+17	+4.8	61.4
+25	+7.0	63.6

8+50

56.65

34

-25'	+7.0	63.6
-16	+4.3	61.9
-7	1.7	54.9
W	2.7	53.9
℄	2.6	54.0
+10	4.0	52.6
E	8.1	48.5
+10'	7.9	48.7
+11'	12.6	44.0
+30	13.5	43.1
+38	10.4	46.2
+40	8.4	48.2
+48	8.1	48.5
+65'	4.4	52.2
+82	+5.0	61.6
+100'	+6.8	63.4

8+85

-75	8.6	48.0
-71	1.5	55.1
-59	7.5'	49.1
-55	7.6	49.0
-44	12.5	44.1
-38	12.6	44.0
-32'	7.9	48.7
-10'	7.5'	49.1
E	4.6	52.0
+4'	3.4	53.2

5665 Wabasha Dr.

℄	2.3	543
W	2.7	539
+4	2.3	543
+10	4.3	609
+25	8.3	649
9+00		
-25'	8.2	648
-10'	4.4	610
-5'	1.5	551
W	2.9	543
℄	2.5	541
+15	3.2	534
E	4.1	525
+8	6.5	501
+23	8.0	486
+30	12.3	443
+37	12.3	443
+43	11.6	450
+60	10.8	458
+65	9.2	474
+75'	0.9	557
+85	5.3	619
+100'	5.0	616
9+15		
-80'	5.6	622
-65'	2.7	539

5665

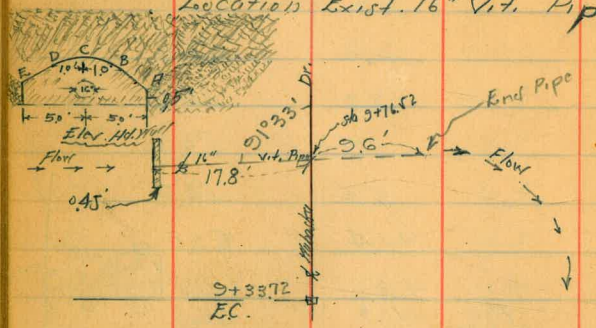
+53	10.3	463
-35	10.4	462
-30'	12.4	442
-25	12.4	442
-18'	7.6	490
E	4.5	521
+5	2.6	540
℄	2.0	546
W	2.7	539
+5	2.0	546
+10	+5.4	620
+20	+8.0	646
+23.5 = East Edge 1 Room shack	Floor Elev. Ground +10.3 +8.3	669 649
9+50		
-25	+7.8	644
-11	+4.0	604
-8	2.0	546
W	2.2	544
℄	2.0	546
+10	3.5	531
E	6.7	499
+4	6.9	497
+6	11.3	453
+14	11.7	449
+19	9.7	469
+21	7.0	497

5665 Wabaska Dr.

+45		7.4	49.2	
+56		5.9	50.7	
+65		1.7	54.9	
+80		+5.0	61.6	
T.P.	9.54	61.87	4.32 culvert	52.33

Note: Home-made Ht. Wall on up hill side const. Good.

Location Exist. 16" V.t. Pipe



9+76.52 = Section over ℄ Exist 16" V.t. Drain.

-85'			0.2	61.6
-78'			0.6	61.2
-60'			9.5	52.3
-45'			11.6	50.2
-10'			11.6	50.6
-5'			16.7	45.1
E.			16.7	45.1
+2			11.6	50.2
+7.9' on Flow Line outlet			11.35	50.52
+12			8.1	53.7
℄			7.0	54.8
+3			6.5	55.3

6187

W		6.8	55.0
A on Ht. Wall		9.65	52.22
B " " "		7.70	54.17
C " " "		7.55	54.32
D " " "		7.79	54.08
E " " "		9.41	52.46
Flow Line Inlet		10.47	51.40
W+10		7.9	54.0
+25		5.6	56.2

10+00

-25'		0.2	61.6
-17'		1.6	60.2
-15		6.2	55.6
-8'		7.8	54.0
W		6.7	55.2
+15		6.3	55.5
℄		7.0	54.8
+13		10.7	51.1
+15'		16.1	45.7
E.		16.1	45.7
+5		16.1	45.7
+8		11.5	50.3
+35		11.6	50.2
+62		8.2	53.6
+65		6.9	55.0
+78		+0.1	62.0

	10+50		
-85		+1.0	62.8
-73'		6.9	55.5
-40'		10.4	51.4
-20'		10.8	51.0
-17		16.3	45.5
-11		16.3	45.5
-8		10.9	51.0
E		11.0	50.8
+10		6.5	55.3
℄		5.1	56.7
+15		5.3	56.5
W		6.0	55.8
+6		6.5	55.3
+10		4.3	57.5
+14		+1.8	63.7
+25'		+5.4	67.2
	10+75		
-25		+5.8	67.7
-14		+3.3	65.2
-6		5.2	56.6
W		5.2	56.6
+4		4.8	57.0
℄		4.8	57.0
+10		6.3	55.5
E		10.3	51.5

+18		10.6	50.2
+23		14.3	47.5
+30		14.8	47.0
+36		10.2	51.6
+44		10.0	51.8
+74		5.0	56.8
+86		+1.4	63.3
	11+00		
-89'		+2.0	63.8
-78'		3.8	58.0
-65'		7.2	54.6
-50		10.0	51.8
-38		11.0	50.8
-37		14.4	47.4
-31		14.4	47.4
-29		10.2	51.6
-15		9.9	52.0
E		8.2	53.6
+8		5.8	56.0
℄		4.8	57.0
+9'		3.7	58.1
W		4.6	57.2
+7		4.8	57.0
114		+1.6	63.4
+25		+3.8	68.0
	11+50		

61.87 Wabaska Dr.

	11+50		
-25'		+5.0	66.8
-14'		+1.8	63.6
-6'		4.5	57.3
W		5.5	58.3
+2		2.8	59.0
+15		2.6	59.2
E		3.4	58.4
+3'		4.4	57.4
E		6.1	55.7
+7		5.4	56.4
+20		8.4	53.4
+37		9.4	52.4
+43		13.1	48.7
+48		12.9	49.0
+51		9.5	52.3
+54		9.2	52.6
+91		+2.5	64.9
	11+75		
-95		+3.0	64.8
-55		8.6	53.2
-38'		9.3	52.5
-34		12.4	49.4
-29'		12.3	49.5
-16'		11.2	50.6
-15		7.9	54.0
E		6.5	55.3

61.87

+10'		3.9	58.0
+15		3.9	58.0
E		2.5	59.3
+2		1.9	60.0
+15		2.2	59.6
W		3.1	58.8
+7		4.0	57.8
+15		+2.2	64.0
+25'		+5.7	67.5
	12+00		
-25'		+6.0	67.8
-14'		+3.3	65.1
-7'		3.4	58.4
-3'		3.4	58.4
W		2.2	59.6
+2		1.4	60.4
+15		1.4	60.4
E		2.1	59.7
+3		3.2	58.6
+7		3.6	58.2
+13		7.2	54.6
+16		8.1	53.7
E		11.7	50.1
+7		11.3	50.5
+9		8.8	53.0
+35		8.8	53.0

		61.87	YUKON Drive	
+52			11.3	505
-91			+3.5	653
T.P	11.38	69.94	3.31	58.56
	12+50			
-90'			4.6	653
-60'			9.9	600
-20'			14.7	552
-2			16.3	536
-1			18.8	511
E			18.8	51.1
+4			18.8	511
+5			15.6	543
+9			14.2	557
+12			11.0	589
℄			9.2	607
+2			8.4	615
+14			8.4	615
//			9.4	605
+7			10.0	599
+12			8.0	619
+15			3.5	664
+25			0.6	69.3
	13+00			
-25			0.1	698
-19			1.7	682
-15			5.9	64.0

		69.94		
-9			8.4	615
-5			8.4	615
//			7.4	625
+2			6.8	631
+16			7.1	628
℄			7.7	622
+5			9.5	604
E			15.0	549
+4			15.2	547
+6			17.2	527
+11			17.2	527
+12			15.1	548
+20			14.2	557
+40			11.3	586
+65			8.2	617
+92			4.3	656
	13+50			
-92			3.8	661
-65			9.0	609
-38			10.9	600
-30			13.4	565
-22			15.6	543
-21			16.8	531
-19			16.8	531
-18			14.2	557
-8'			13.5	56.4

69.94 WABASKA

E	11.4	58	5
+5	10.9	59	0
L	6.6	63	3
+2	5.9	64	0
W	6.0	63	9
+10	6.1	63	8
+18	+0.9	70	8
+25'	+2.4	72	3
14+00			
-25'	+3.2	73	1
-7'	0.7	69	2
-2'	4.7	65	2
W	4.7	65	2
+14	4.2	65	7
L	4.7	65	2
+3	6.0	63	9
+15	6.6	63	3
E	8.1	61	8
+3	9.2	60	7
+10	9.7	60	2
+21	12.0	57	9
+27	13.6	56	3
+28	16.4	53	5
+33	16.4	53	5
+35'	13.2	56	7
+45	9.7	60	2

69.94

+75'	7.6	62	3
+85	4.3	65	6
14+50			
-95'	2.3	67	6
-65'	7.0	62	9
-45'	8.6	61	3
-36'	11.7	58	2
-34'	14.7	55	2
-30'	14.7	55	2
-29'	12.8	57	1
-15'	9.3	60	6
-7	8.5	61	4
E	6.3	63	6
L	4.6	65	3
+3	3.3	66	6
W	3.4	66	5
+8	+1.3	71	2
+25'	+4.3	74	2
15+00			
-25'	+4.6	74	5
-15	+2.2	72	1
-5	+0.7	70	6
-1	3.1	66	8
W	2.8	67	1
+15'	2.8	67	1
L	3.3	66	6

69.94 — Mahaska

+10		4.8	651
+15		4.1	658
E		4.3	656
+2'		4.3	656
+6'		4.5	634
+23		9.6	603
+38		10.8	591
+39		14.1	558
+43		14.1	558
+44		11.5	584
+52		9.6	603
+60		5.5	644
+70		5.3	646
+95		1.7	682
	15+50		
-98		1.4	685
-90		3.8	661
-60		6.8	631
-49		10.0	599
-48		12.1	578
-40'		11.7	582
-38		9.7	602
-27'		7.6	623
-7		6.4	635
E		5.0	649
E		3.3	666

69.94

+2		2.7	672
W		2.7	672
+2		2.8	671
+7'		0.0	699
+25'		+3.0	729
	15+75		
-7'		0.5	694
W		1.9	680
E		3.4	665
+5		3.4	665
+10		4.3	656
E		5.4	645
+10		9.6	603
+28		10.1	598
+40		7.3	626
+50		4.9	650
+65		4.4	655
	15+78 = Section Parallel to Capistrano St.		
-30		2.6	673
-17		3.2	667
-9		9.3	606
-2		9.4	605
E		7.8	621
+5		6.6	633
+7		4.9	650
+10		3.4	665

69.94 Wabasha

S			2.4	675
W			2.2	677
+3			2.1	678
	15+89.06 = SIY' Line Capistran.			
W			1.6	683
S			2.2	677
E			2.0	679
T.P.	12.04	79.36	2.64	67.30
chk. St. BP. Chatsworth 8nd Pac		Page 1	1.30	78.06
				78.21 = BM
				0.15 = Error.

Note: For Cross Sections of Wabasha Bet. Capistrano and Chatsworth 8Nd. See Book 1386.73

Walker
Wm Bliss
Drebert
McHoon

3-25-30

Cross Section Willow St. 70' Wide 18' cbs 85' FS
Bet. Macaulay And Newell St.

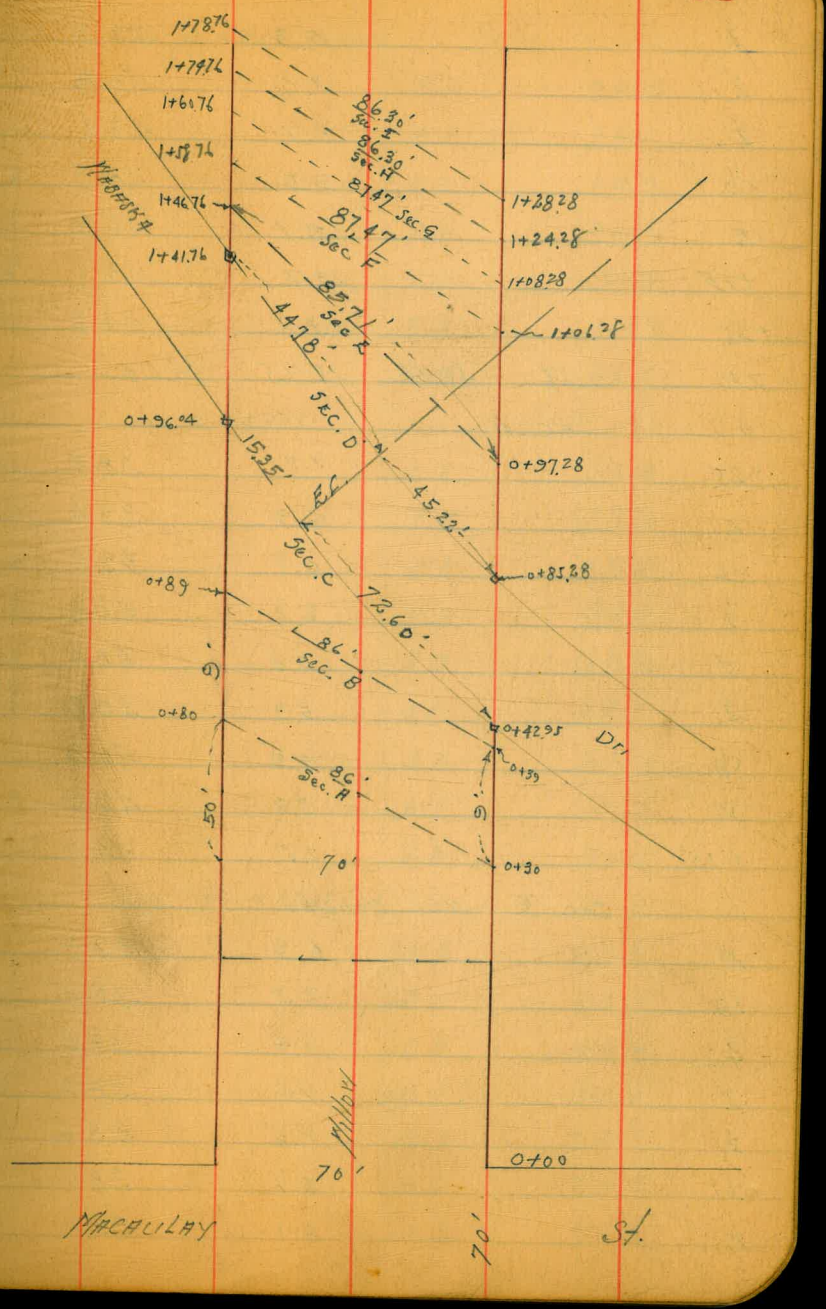
0+00 = N&Y Line Macaulay St.

B.M. N&Y Hub Macaulay & Willow Page 25

	1.81	70.11		68 30
W			1.8	683
cb.			5.1	650
½			7.0	631
¼			8.9	612
¼			10.9	592
cb.			13.1	570
E			18.3	518
+25			24.9	452
	0+25	Note: Prop. Line Stations		
-25			31.5	386
-13'			25.4	447
E			22.3	478
cb.			17.8	523
½			15.5	546
¼			13.7	564
¼			11.8	583
cb.			10.0	601
W			6.9	632
+10'			4.9	652
T.P.	0 00	58.35	11.76	5835
	SEC. A			
-15'			7.6	507
W			7.4	51.0
cb.			6.4	52.0

CBH

Plotted 4-23-30



58.35 Willow

¼			5.9	525
¼			7.6	508
¼			8.7	497
cb.			9.5	489
E.			13.1	463
+15			13.7	447
+25			13.8	446
T.P.	0.56	46.16	12.75	45.60

SEC. B

-25			7.7	385
E			6.9	394
cb.			6.7	395
¼			6.2	400
¼			5.8	404
¼			5.9	403
cb.			5.9	403
W			3.3	429
+15			1.5	447

Sec. C = Hill's Wabaska

W			6.9	393
cb.			7.3	389
¼			7.4	388
¼			7.4	388
¼			7.6	386
cb.			8.1	381
E.			8.1	381

46.16

Sec D = Hill's Wabaska

E.	8.2	380	
cb.	8.1	381	
¼	8.0	382	
¼	7.6	386	
¼	7.3	389	
cb.	7.3	389	
W	6.7	395	

SEC. E. = 85.71'

W-15	6.8	394	
W	7.3	389	
cb.	7.8	384	
¼	7.9	383	
¼	7.9	383	
¼	8.1	381	
cb.	8.0	382	
E.	8.5	377	
+15	8.8	374	

SEC. F = 87.47'

-15	12.9	339	
E.	12.5	337	
cb.	12.4	338	
¼	12.1	341	
¼	12.1	341	
¼	11.5	347	
cb.	11.2	350	

		46.16		Willows
W			11.5	347
+15			11.3	349
	Sec. G	= 87.47		
-25			15.2	310
W			15.7	305
cb.			16.6	296
¼			16.8	294
E			16.9	293
¼			17.1	291
cb.			17.1	291
S			17.4	288
+25			17.7	285
	Sec. H	= 86.30'		
-25'			17.3	289
S			17.2	290
cb			17.1	291
¼			17.1	291
E			16.8	294
¼			16.8	294
cb			16.6	296
W			15.7	305
+25			15.2	310
	Sec I	= 86.30'		
-25			9.0	372
W			10.2	360
cb.			11.1	351

		46.16		
¼			11.4	348
E			11.4	348
¼			11.4	348
cb.			11.3	349
E			12.2	340
+25			12.3	339
	1+85	Sec Rt. A	to Willows	
-15			+2.0	
E			+0.3	465
cb.			2.7	438
¼			4.7	415
E			6.0	402
¼			7.4	388
cb.			8.2	380
W			10.0	362
	1+99.91	= 5'L'Y'	Line Newell	18'cbs. 8.5'¼S.
W			6.8	394
cb.			4.4	418
¼			3.7	425
E			2.0	442
TP.	12.83	58.28	0.71	45.45
¼			11.7	46.6
cb.			9.2	491
E			7.3	510
+10			5.7	576
	5 cb.			

58.28 Willow

-10'	0.8	575
E.	1.6	567
cb.	4.4	539
¼	6.4	519
℄	8.8	495
¼	10.8	475
cb.	12.0	463
W	14.3	440
5¼ Newell		
W	12.7	456
cb.	9.8	485
¼	8.2	501
℄	6.2	521
¼	4.2	541
cb.	2.3	560
E.	+1.6	599
+10	+2.2	605
℄ Newell		
-10	+5.2	635
E.	+5.4	637
cb.	+0.3	586
¼	2.3	560
℄	4.1	542
¼	5.5	528
cb.	7.5	508
W	10.6	477

58.28

NLY ¼

W	8.2	501
cb.	4.5	538
¼	3.6	547
℄	1.7	566
¼	+0.2	585
cb.	+2.7	610
E.	+7.6	659
+10	+7.8	661
NLY cb.		
-10	+10.7	690
E.	+9.8	681
cb.	+5.3	636
¼	+2.6	609
℄	+1.0	593
¼	0.5	578
cb.	1.7	566
W	5.4	529
NLY Line Newell		
W	+0.3	586
cb.	+3.9	622
¼	+5.0	633
℄	+5.9	642
¼	+7.5	658
cb.	+9.7	680
E.	+14.2	725
Chk. on ℄ Hub 4-21-81 - Le Laska Page 30	10.65	47.63 - BM 47.66 - BM 0.03 - Error

Walker
Myn Bliss
Drebert
Mathuen

3-26-30

C1855 Section Plum St. 70' wide. 18' cbs. 8.5 fs.

Both Macauley and Poe sts.

	13.01	81.31		68.30	B.M. on Hub N.W. Macauley & Wilbur P-43
T.P.	12.16	93.05	0.42	80.89	
T.P.	10.15	103.19	0.01	93.04	

N.W. Line Macauley St. = 0+00

-10		3.5		
E. on Prop. Hub.		3.45	99.74	N.E. Cor. Hub. Plum & Macauley
cb.		3.0	100.2	
¼		2.7	100.5	
℄		2.8	100.4	
¾		2.9	100.3	
cb.		3.2	100.0	
W		3.8	99.4	
+10		3.7	99.5	
	0+25			
-10		2.8	100.4	
W		2.9	100.3	
cb.		3.0	100.2	
¼		3.0	100.2	
℄		3.4	99.8	
¾		4.0	99.2	
cb.		4.2	99.0	
E.		4.7	98.5	
+10		4.9	98.3	
	0+50			
-10		8.0	95.2	

C.B.H.

Plotted 4-23-30

10.3.19

E.		7.7	95.5
cb.		7.0	96.2
¼		6.2	97.0
℄		6.0	97.2
¾		5.5	97.7
cb.		5.2	98.0
W		4.4	98.8
+10		3.9	99.3
	0+75		
-10		5.5	97.7
W		6.4	96.8
cb.		7.7	95.5
¼		8.0	95.2
℄		8.4	94.8
¾		8.7	94.5
cb.		9.2	94.0
E.		10.3	92.9
	1+00		
E. -10		14.5	88.7
E.		13.5	89.7
cb.		12.2	91.0
¼		11.3	91.9
℄		10.7	92.5
¾		10.1	93.1
cb.		9.4	93.8
W		7.7	95.5
+10		7.0	96.2

103.19 Plum St.

1+25			
-19 at House Ground Elev.	6.7	96 5	
W	8.8	94 4	
cb.	11.1	92 1	
℄	12.0	91 2	
℄	13.3	89 9	
℄	14.6	88 6	
cb.	15.1	88 1	
E	16.8	86 4	
+10	18.0	85 2	
1+39 = ℄ Con. Steps to House on W 3' Wide 3' Back.			
W+9' on Bottom Step	7.14	96 05	✓
+15 ' top Porch Step	4.15	99 04	✓
T.P. 1.59 92.58	12.20	90.99	
1+50			
-15	10.0	82 6	
E	8.0	84 6	
cb.	5.3	87 3	
℄	4.1	88 5	
℄	2.9	89 7	
℄	2.1	90 5	
cb.	1.3	91 3	
W	+1.2	93 8	
+10	+2.3	94 9	
1+75			
-10	+1.7	94.3	

92.58

W	+0.3	92 9	
cb.	2.1	90 5	
℄	3.0	89 6	
℄	4.1	88 5	
℄	5.3	87 3	
cb.	6.7	85 9	
E	9.1	83 5	
+15	11.0	81 6	
2+00.10' = SLY Line Newell 18' cbs. 8.5' ℄ S.			
E	11.2	81 4	
cb.	8.2	84 4	
℄	6.8	85 8	
℄	5.7	86 9	
℄	4.4	88 2	
cb.	3.2	89 4	
W	1.4	91 2	
cb.			
W	1.9	90.7	
cb.	4.7	87 9	
℄	5.6	87 0	
℄	6.9	85 7	
℄	8.6	84 6	
cb.	9.4	83 2	
E	12.6	800	
SLY ℄			
E	13.9	78 7	

92.58 Plum St.

cb.		10.7	81.9
℄		9.1	82.5
℄		7.6	850
℄		6.5	861
cb.		5.3	87.3
W		2.8	898
	SLY ℄ + 2		
W		4.0	886
cb.		6.7	859
℄		7.6	850
℄		8.8	838
℄		10.4	822
cb.		12.0	806
E		15.5	771
	℄		
E		16.0	766
cb.		11.8	808
℄		10.6	820
℄ on	Rim M.H. Sewer	9.58	8300
℄		7.8	848
cb.		6.5	861
W		4.0	886
	NLY ℄		
W		5.5	87.1
cb		7.8	848
℄		8.9	837

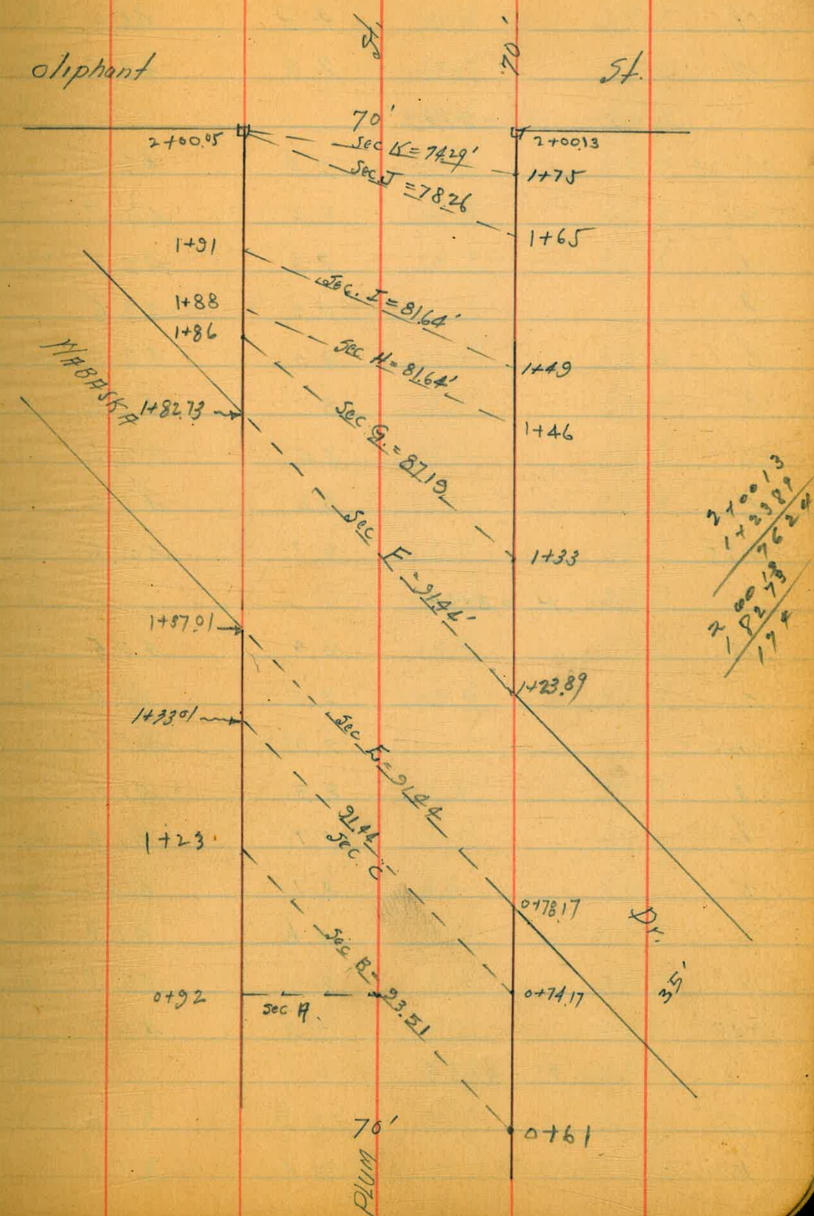
92.58

℄		10.4	82.2
℄		11.6	810
cb.		12.5	801
E		16.5	761
	NLY cb.		
E		17.2	754
cb.		12.6	800
℄		12.1	805
℄		10.8	818
℄		9.5	831
cb.		8.3	843
W		6.7	859
	NLY Line Newell St. = 0+00		
W		9.0	836
cb.		12.0	806
T.P.	0.60 80.23	12.95	79.63
℄		1.2	790
℄		2.6	776
℄		3.8	764
cb.		5.6	746
E		10.3	699
	0+25		
75		20.6	506
E		15.6	646
cb.		12.3	679
℄		10.3	699

℄	8.1	72.1	
℄	5.9	74.3	
cb.	3.8	76.4	
W	0.2	80.4	
+10	+2.2	82.4	
0+40			
-10'	1.2	79.0	
W	2.5	77.7	
cb.	7.3	72.9	
℄	9.5	70.7	
℄	11.7	68.5	
℄	13.2	67.0	
cb.	14.3	65.9	
E.	18.1	62.1	
+25	25.7	54.5	
0+50			
-30	34.1	46.1	
-15	25.3	54.9	
E.	21.4	58.8	
cb.	15.4	64.8	
℄	14.0	66.2	
℄	13.0	67.2	
℄	10.8	69.4	
cb.	8.8	71.4	
W	4.6	75.6	
+10	2.6	77.6	

0+61			
-10	4.7	75.5	
W	7.0	73.2	
cb.	11.3	68.9	
T.P.	0.62	68.44	12.41	67.82
℄	1.5	66.9	
℄	4.4	64.0	
℄	6.1	62.3	
cb.	8.0	60.4	
E.	12.6	55.8	
+17	21.9	46.5	
+20	21.9	46.5	
Sec. A = 35' Rt. ∠ to Plum			
℄	10.7	57.7	
W ℄	8.3	60.1	
cb.	6.2	62.2	
W	1.4	67.0	
+10	1.0	68.4	
Sec. B = 93.51			
-25	9.2	59.2	
W	8.2	60.2	
cb.	8.6	59.8	
℄	9.5	58.9	
℄	10.7	57.7	
℄	10.8	57.6	
cb.	11.2	57.2	

		68.44		Plum.	
E			12.5	55.9	
T.P.	2.37	57.95	12.86	55.58	℄ Hub 4+21.81 Page 30
Chk. on B.M. ℄ Hub P-30			10.31	47.64	Correction
	2.82	50.48		47.66 = Hub 4+21.81	
-25			4.0	48.5	
E			3.2	47.3	
cb.			2.3	48.2	
℄			1.9	48.6	
℄			1.4	49.1	
℄			0.3	50.2	
cb.			0.3	50.2	
W			1.2	49.3	
+15			1.2	49.3	
	SEC. E = 91.44 = Wly' Line Mabaska				
W			2.0	48.5	
cb.			1.6	48.9	
℄			1.8	48.7	
℄			2.2	48.3	
℄			2.6	47.9	
cb.			2.8	47.7	
S			3.4	47.1	
	Sec. F = 91.44 = ELY Line Mabaska				
S			4.6	45.9	
cb.			3.6	46.9	
℄			3.5	47.0	
℄			3.5	47.0	



℄		4.0	46.5
cb.		4.3	46.2
W		7.0	43.5
	Sec. G = 87.19'		
W - 25		7.8	42.7
W		8.0	42.5
cb.		7.8	42.7
℄		7.9	42.6
ℓ		8.0	42.5
℄		8.2	42.3
cb.		8.4	42.1
E		9.2	41.3
+ 25		9.7	40.8
	Sec. H = 81.64'		
- 25		10.0	40.5
E		9.5	41.0
cb.		9.0	41.5
℄		8.9	41.6
ℓ		8.7	41.8
℄		8.7	41.8
cb.		8.6	41.9
W		8.0	42.5
+ 25'		7.8	42.7
	Sec I = 81.64		
- 17'		12.9	37.6
W		13.1	37.4

cb.	13.4	37.1
℄	13.4	37.1
ℓ	13.5	37.0
℄	14.1	36.4
cb.	14.2	36.3
E	14.3	36.2
+ 25	14.7	35.8
	Sec. J = 78.26	
- 25	11.5	39.0
E	14.2	36.3
cb.	13.7	36.8
℄	13.2	37.3
ℓ	13.2	37.3
℄	13.0	37.5
cb.	12.9	37.6
W	12.6	37.9
	Sec. K = 74.29'	
W	12.6	37.9
cb.	11.5	39.0
℄	8.6	42.0
ℓ	7.6	42.9
℄	8.3	42.2
cb.	7.6	42.9
E	6.6	43.9
+ 25	5.4	45.1

SLY Line Oliphant. = 2+00.13 Sta. on East

5048 Plum St

E.		2.2	48 3	
cb.		4.8	45.5	
¼		5.8	44 6	
℄		6.7	43 8	
¼		8.0	42 5	
cb.		8.2	42 3	
+3		8.6	41.9	
+10		11.6	38 9	
W		12.6	37.9	
	S ½ Y' cb Oliphant			
W		7.7	42 8	
cb.		5.8	44 7	
¼		4.9	45.6	
℄		3.9	46 6	
¼		2.5	48 0	
T.P	11.91	62.02	0.37	50.11
cb.			12.3	49 7
E			9.4	52 6
	S ½ Y' ¼			
E			6.9	55 1
cb			10.4	51 6
¼			12.1	49 9
℄			13.4	48 6
¼			14.9	47 1
cb			15.9	46 1
W			18.5	43.5

62.02

℄ Oliphant

W		16.3	45 7
cb.		14.1	47 9
¼		12.7	49 3
℄		11.0	51.0
¼		10.0	52 0
cb.		8.4	53 6
E		4.0	58 0
	N ½ Y' ¼		
E		0.9	61 1
cb.		5.2	56.8
¼		6.9	55 1
℄		8.1	53 9
¼		9.4	52 6
cb.		10.8	51 2
W		13.5	48 5
	N ½ Y' cb.		
W		10.5	51.5
cb.		7.4	54 6
¼		5.7	56 3
℄		4.7	57.3
¼		3.2	58 8
cb.		1.7	60.3
T.P.	12.76	74.44	0.34 61.68
E			11.3 63.1
	N ½ Y' Line Oliphant = 0+00		

		74.44		
E.			2.7	71.7
cb.			6.9	67.5
¼			7.8	66.6
℄			8.6	65.8
¾			9.5	64.9
cb.			11.3	63.1
W			16.9	57.5
	0+25			
-40			23.1	51.3
-25			17.5	56.9
-13			14.1	60.3
W			8.1	66.3
cb.			1.3	73.1
T.P.	12.90	86.98	0.36	74.08
¼			11.5	75.5
℄			10.3	76.7
¾			9.5	77.5
cb.			8.4	78.6
E.			5.0	82.0
+10			2.8	84.2
	0+35			
-10'			0.0	87.0
E.			1.3	85.7
cb.			4.6	82.4
¼			6.3	80.7
℄			7.8	79.2

		86.98		
¼			9.2	77.8
cb.			11.4	75.6
W			17.7	69.3
+18			25.0	62.0
+26			26.6	60.4
+40			31.7	55.3
	0+50			
-25'			21.2	65.8
-5'			15.6	71.4
W			12.9	74.1
cb.			7.6	79.4
¼			6.0	81.0
℄			4.3	82.7
¾			2.6	84.4
T.P.	12.38	98.74	0.62	86.36
cb.			12.5	86.2
E.			9.5	89.2
+10			7.6	91.1
	0+75			
-10'			2.3	96.4
E.			4.1	94.6
cb.			7.6	91.1
¼			9.0	89.7
℄			10.3	88.4
¾			11.8	86.9
cb.			13.8	84.9

9874 Plum. st.

W			18.0	807
+17			21.9	768
+25			24.3	744
	1+00			
-25			18.2	805
-15			15.1	836
W			12.0	867
cb.			8.3	904
¼			7.0	917
E			5.5	932
¼			4.3	944
cb.			2.7	960
T.P.	12.52	110.83	0.43	98.31
E.			11.2	996
+10			8.8	1020
	1+25			
-10			3.8	1070
E			6.1	1047
cb.			9.7	1011
¼			11.5	993
E			13.0	978
¼			14.6	962
cb.			16.0	948
W			18.6	922
+25			24.0	868
	1+50			

11083

-25		19.8	910
W.		15.3	955
cb.		11.9	989
¼		10.3	1005
E		8.2	1026
¼		6.3	1045
cb.		5.0	1058
E.		1.3	1095
	1+75		
E		+3.8	1146
cb.		0.5	1103
¼		2.4	1084
E		4.2	1066
¼		6.1	1047
cb.		8.1	1027
W		11.5	993
+25		17.2	936
	1+99.94 Sly'Line Poe st.		
-25		13.3	975
-12'		9.7	1011 SW. Cor. Hub.
W on Hub.		7.21	1036.2 Plum + Poe
cb.		3.9	1069
¼		2.0	1088
E		+0.6	1114
¼		+2.5	1133
cb.		+3.4	1142
E		+10.2	1210
Check on N.E. Hub Plum & Macculay		11.09	99.74 Page 47

99.74 = B.M.
0.00 = Error.

Walker
Y/P Bliss 3-26-30
Drebert
Mattoon

Cross Section Clove st. 60' Wide 10' cbs.
Bet. Macaulay And Oliphant st. 10' ⅌s.

		110.83 = π from P-55			on Pueblo Hub. NLY Line Newell Sost of Clove
T.P.	12.91	120.39	3.35	107.48	
	4.53	123.74	1.18	119.21	
	NLY Line Macaulay = 0+00				
W			4.2	119 5	
cb.			5.4	118 3	
¼			5.5	118 2	
℄			6.0	117 7	
¼			5.8	117 9	
cb.	CB.H		7.1	116 6	
E			8.0	115 7	
	0+25 = ℄ Con. steps on West 6' Wide ✓				
-10			10.0	113 7	
E	Plotted 4-24-30		8.2	115 5	
cb.			7.4	116 3	
¼			6.8	116 9	
℄			6.7	117 0	
¼			6.6	117 1	
cb.			6.3	117 4	
W at steps on Ground			5.8	117 9 ✓	
" on "			5.22	118 52 ✓	
+5.5 " top "			2.55	121 19 ✓	
	0+50				
-5			4.1	119 6	
W			6.3	117 4	
cb.			7.2	116 5	

123.74

¼		7.5	116 2
℄		7.6	116 1
¼		7.6	116 1
cb.		8.3	115 4
E		9.0	114 7
+5		10.3	113 4
+10		10.9	112 8
	0+75		
-10		11.5	112 2
-5		11.0	112 7
E		10.0	113 7
cb.		9.2	114 5
¼		8.4	115 3
℄		8.4	115 3
¼		8.4	115 3
cb.		8.1	115 6
W		6.9	116 8
+5		8.9	114 8
	0+99 = ℄ Con Walk on West 2' Wide		on Line
-2.5	on Con. Walk	5.21	118 53 ✓
W	" " "	7.89	115 85 ✓
W	" Ground at end Walk	8.3	115 4
cb.		8.7	115 0
¼		9.0	114 7
℄		9.1	114 6
¼		9.2	114 5

	123.74		Cove St	
cb.		9.7	1140	
E.		10.3	1134	
+4		11.4	1123	
+10		11.8	1119	
	1+25			
-10		12.2	1115	
E.		10.9	1128	
cb.		10.5	1132	
¼		10.0	1137	
℄		9.7	1140	
¼		9.7	1140	
cb.		9.3	1144	
M		8.7	1150	
+5		8.1	1156	
	1+50			
-5		8.8	1149	
M		9.1	1146	
cb.		10.1	1136	
¼		10.3	1134	
℄		10.4	1133	
¼		10.3	1134	
cb.		11.0	1127	
E.		10.8	1129	
+10		11.3	1124	
	1+75			
-10		11.6	112.1	

	123.74			
E.		11.3	1124	
cb.		10.6	1131	
¼		10.6	1131	
℄		11.0	1127	
¼		10.8	1129	
cb.		10.0	1137	
M		9.8	1139	
+5		9.5	1142	
T.P.	2.70	114.61	11.83	111.91
	2+00 ± = s/y' Linda Newell st 18'cbs 8.5 '48			
-5		0.8	1138	
M		0.6	1140	
cb.		1.4	1132	
¼		2.1	1125	
℄		2.3	1123	
¼		2.0	1126	
cb.		2.4	1122	
E.		2.8	1118	
	s/y' cb.			
E.		3.4	1112	
cb.		2.9	1117	
¼		3.0	1116	
℄		3.1	1115	
¼		2.6	1120	
cb.		2.6	1120	
M		2.2	1124	
+5		2.2	1124	

11461

Clove St

SLY ¼ Newell

-5	2.7	1119	
W	2.9	1117	
cb.	3.0	1116	
¼	3.4	1112	
℄	3.6	1110	
¼	3.6	1110	
cb.	3.5	1111	
E.	2.7	1119	

℄

E.	4.0	1106	
cb.	4.0	1106	
¼	4.0	1106	
+6	3.9	1107	
+7	4.9	1102	
℄	4.4	1102	
¼	4.3	1103	
+6	4.0	1106	
cb.	3.3	1113	
W	3.0	1116	
+5	2.8	1118	

NLY ¼

-5	3.8	1108	
W	3.8	1108	
cb.	4.1	1105	
+5	4.8	1098	

11461

¼	5.0	1096	
℄	5.1	1095	
+2	5.0	1096	
+3	4.5	1101	
¼	4.5	1101	
cb.	4.3	1103	
E.	4.6	1100	

NLY cb.

E.	5.1	1095	
cb.	5.2	1094	
¼	5.0	1096	
+8	5.0	1096	
+9	5.9	1087	
℄	5.8	1088	
¼	5.8	1088	
+5	5.6	1090	
cb	4.8	1098	
W	4.4	1102	
+5	4.4	1102	

NLY Leitze Newell = 0+00

-5	6.3	1083	
W	6.3	1083	
+5	6.4	1082	
cb.	6.9	1077	
+5	6.9	1077	
¼	6.6	1080	

+8			7.0	107.6
℄			6.4	108.2
½			6.1	108.5
cb.			6.2	108.4
E.			6.2	108.4
	0+25			
-10			6.7	107.9
E.			6.9	107.7
cb.			7.5	107.1
¼			7.9	106.7
℄			7.7	106.9
+7			7.9	106.7
+8			8.8	105.8
¼			8.8	105.8
cb.			8.2	106.4
W			8.1	106.5
+10			8.1	106.5
	0+50			
-10			9.3	105.3
W			9.7	104.9
cb			9.9	104.7
¼			10.5	104.1
+2			9.3	105.3
℄			9.1	105.5
½			9.0	105.6
cb.			9.1	105.5

E.			9.0	105.6
+10			8.5	106.1
	0+85			
-10			10.0	104.6
E.			10.5	104.1
cb.			11.0	104.6
¼			11.6	103.0
℄			12.0	102.6
+3			12.0	102.6
+5			12.9	101.7
½			12.3	102.3
cb.			12.5	102.1
W			12.3	102.3
+10			12.4	102.2
	1+25			
T.P.	0.85	102.55	12.91	101.70
-10			2.6	100.0
W			2.6	100.0
cb.			3.0	99.6
¼			3.6	99.0
℄			4.4	98.2
+3			4.2	98.4
¼			4.3	98.3
cb.			4.4	98.2
E.			4.3	98.3
+10			4.4	98.2

		~~114.61~~ 102.55		Clove st.
1+70				
-10			6.4	96.2
E			5.9	96.7
cb.			6.1	96.5
¼			6.9	95.7
+1			7.8	94.8
℄			7.7	94.9
¼			8.0	94.6
cb.			7.9	94.7
M			7.7	94.9
+10			7.6	95.0
	1+90			
-10			8.9	93.7
M			9.7	92.9
cb.			9.8	92.8
¼			9.8	92.8
℄			9.6	93.0
¼			10.7	91.9
cb.			10.5	92.1
E			10.2	92.4
+10			11.1	91.5
	2+05.31			
E			13.4	89.2
cb.			12.5	90.1
¼			12.8	89.9
℄			11.9	90.7

		102.55		
¼			11.9	90.7
cb.			12.1	90.5
M			11.9	90.7
T.P.	0.57	90.64	12.48	90.07

Note: For check out see continuation levels for the above H.I. on pages 61 - to 66

Walker
Mtn Bliss

CROSS SECTION OLIPHANT St. 60' Wide 10'cbs 10'⅓S
From WLY Line Clove to Pueblo Line
thence 70' Wide 18'cbs 8.5'⅓S to Some Point
East of Plum St.

90.64 = π Page 60

WLY Line Clove 10'cbs 10'⅓S

S		+1.1	91.7
cb.		1.3	89.3
⅓		3.0	87.6
℄		4.3	86.3
⅓		5.9	84.7
cb.		7.2	83.4
N	CBH	8.5	82.1
+15		10.3	80.3
	WLY cb. Clove		
-20		11.8	78.8
N		9.3	81.3
cb.		7.8	82.8
⅓		5.9	84.7
℄		4.5	86.1
⅓		3.2	87.4
cb.		1.7	88.9
S	Plotted 4-24-30	0.1	90.5
	WLY ⅓		
S		0.0	90.6
cb.		1.2	89.4
⅓		2.7	87.9
+2		2.9	87.7
+3		4.3	86.3

90.64

℄		4.4	86.2
⅓		5.7	84.9
cb.		8.1	82.5
N		10.0	80.6
+20		12.9	77.7
	℄		
-20		14.0	76.6
N		10.6	80.0
cb.		8.3	82.3
⅓		6.1	84.5
℄		4.2	86.4
⅓		3.0	87.6
cb.		1.4	89.2
S		0.0	90.6
	ELY ⅓		
S		0.6	90.0
cb.		1.9	88.7
⅓		3.4	87.2
℄		4.6	86.0
⅓		6.6	84.0
cb.		9.3	81.3
N		11.6	79.0
+20		15.3	75.3
	ELY cb.		
-20		16.3	74.3
N		12.5	78.1

9064 Olyphant

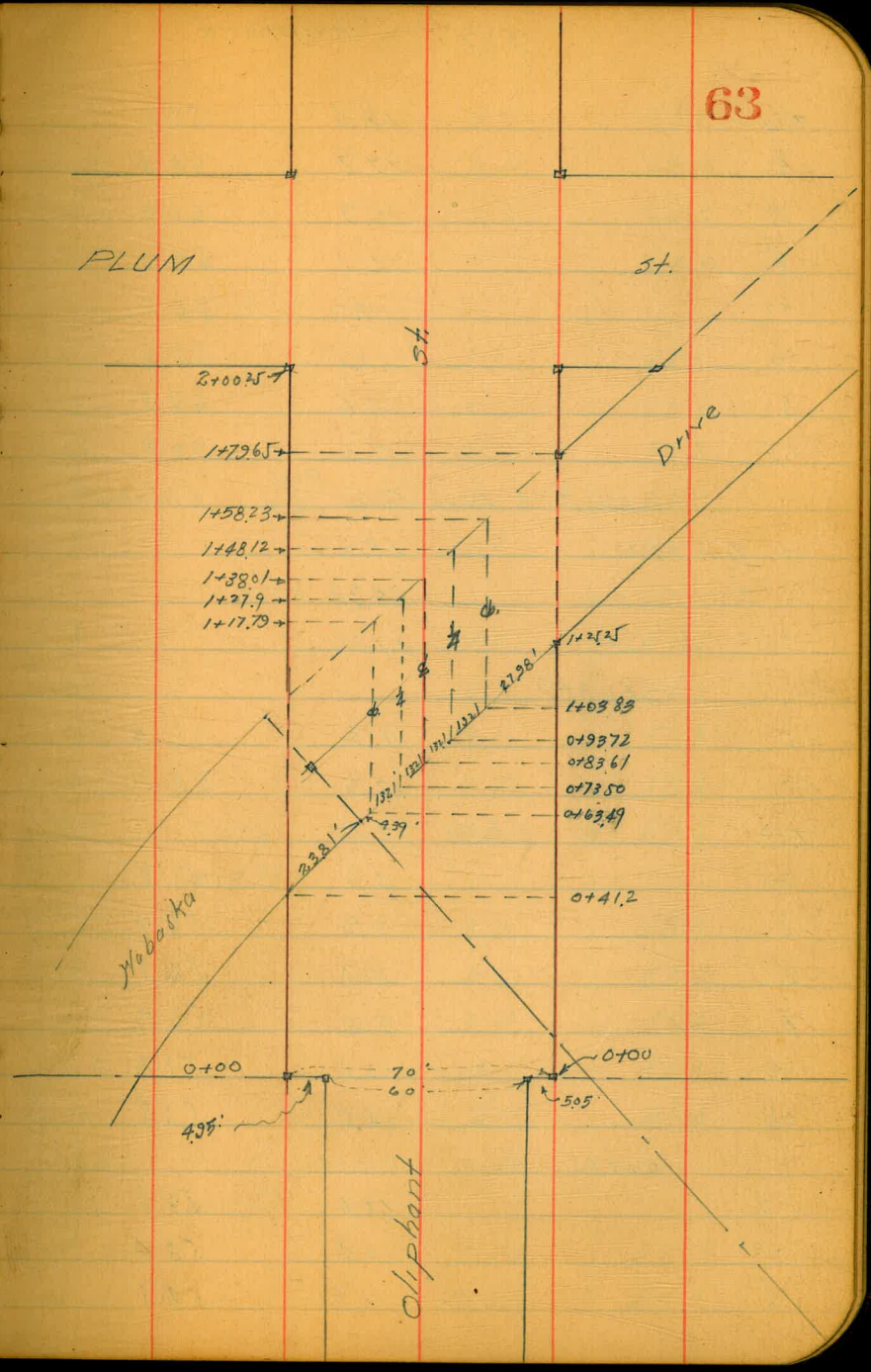
cb.		11.7	78 9
¼		8.0	82 6
℄		5.9	84 7
+6		5.9	84 7
+9		3.9	86 7
¼		3.6	87 0
cb.		1.7	88 9
S		0.6	90 0
	℄ℓ line Clove = 0+00		
S		1.4	89 2
cb.		2.2	88 4
¼		3.8	86 8
+1		4.2	86 4
+4		7.1	83 5
+8		6.5	84 1
℄		6.7	83 9
¼		8.6	82 0
cb.		11.4	79 2
N		13.6	77.0
+20		17.8	72 8
	0+40		
-20		25.5	65 1
N		21.1	69.5
cb.		19.2	71 4
+5		17.2	73 4
¼		16.4	74.2

9064

℄			13.8	76 8
+6			14.4	75 2
+9			12.5	78 1
¼			12.1	78 5
cb.			9.6	81 0
S			7.0	83.6
+5			5.5	85.1
	0+75.52 = Pueblo line this Section 66' wide			10' cbs 10' ¼s
T.P.	0.22	78.07	12.79	77.85
S			1.2	76 9
cb.			3.2	74 9
¼			5.8	72 3
+1			6.1	72 0
+4			8.5	69 6
+7			8.0	70 1
℄			8.5	69 6
¼			10.2	67 9
+5			11.4	66.7
cb.			13.6	64.5
N			16.0	62 1
	0+75.52 = 0+00 = Pueblo line this Section			And all other Sections most are 70' wide 18' cbs. 85' ¼s.
-33 = Approx Line Mahaska			25.1	53 0
-17			24.0	54 1
-9			18.2	59 9
N			17.2	60 9
cb			13.0	65.1

7807 Oliphant

+5		11.0	671
½		9.9	682
2		8.5	696
+7		8.6	695
½		7.3	708
+1		6.0	721
cb.		4.0	741
S		+0.4	785
+5		+1.5	796
	0+25		
-5		3.8	743
S		5.0	731
cb.		9.8	683
+7		11.2	669
½		12.2	659
2		13.6	645
½		15.2	629
cb.		17.6	605
+14'		20.3	578
N		23.3	548
+4		25.1	530
+15		26.0	521
	0+41.2		
N		25.0	531
+10		24.1	534
cb.		20.2	579



78.07 oliphant

cb+2			18.6	59.5
¼			17.7	60.4
℄			16.9	61.2
¼			16.1	62.0
+2			14.0	64.1
cb.			12.5	65.6
S			8.6	69.5
+5			7.3	70.8

0+50.4 = ℄ Exist. Sewer Drop. MH. in ℄ oliphant

on Rim M.H.			18.56	
" Flow from West.			29.98	
" " to East.			31.36	
	0+63.49			
-5			11.3	66.8
S			12.6	65.5
T.P.	0.19	65.82	12.44	65.63
cb.			4.0	61.8
¼			6.9	58.9
℄			8.7	57.1
¼			9.8	56.0
+4			13.5	51.3
cb.			14.0	51.8
	0+73.5			
N ¼			13.7	52.1
+2			12.4	53.4
℄			11.7	54.1

65.82

¼			8.3	57.5
cb.			6.6	59.2
S			2.5	63.3
+5			1.1	64.7
	0+83.61			
-5			3.7	62.1
S			5.0	60.8
cb.			8.5	57.3
¼			13.1	52.7
℄			13.7	52.1
	0+93.72			
¼			14.0	51.8
cb.			13.0	52.8
+5			9.1	56.7
S			7.2	58.6
+5			6.2	59.6
	1+03.83			
-5			7.3	58.5
S			8.6	57.2
+5			9.4	56.4
+12			13.5	52.3
cb.			14.0	51.8
T.P.	1.69	54.93	12.58	53.24
	1+17.79	on N		
N-60			2.6	52.3
N-22			10.2	44.7

N- 13'	15.7	39 2
N	15.0	39 9
+2	13.7	41 2
+3	11.0	43 9
cb.	10.3	44.6
1+27.9		
NLY ¼	11.0	43 9
cb.	10.8	44.1
+10	11.1	438
+11	14.6	403
N	15.7	39 2
+4	15.7	39 2
+18	10.2	347
+50	3.2	51.7
1+38.01		
-40	3.7	51 2
-22	8.1	46 8
-7	10.7	44 2
N	16.0	389
+10	16.0	389
+14	14.8	40.1
cb.	11.5	434
¼	11.4	435
℄	11.4	435
1+48.12		
SLY ¼	11.8	43.1

℄	11.8	43 1
+3	12.0	42 9
¼	14.5	404
cb.	16.2	38 7
+9	16.2	38 7
+16	11.0	43.9
N	11.0	439
+14	8.7	46 2
+30	4.7	50 2
1+58.23		
-25	3.5	51.4
N	9.7	45 2
+11	11.3	43.6
cb.	16.1	38 8
¼	16.1	38 8
℄	16.3	38.6
¼	14.7	40 2
+2	12.2	42 7
cb.	12.0	42 9
1+79.65 =70'		
S LY Line	12.0	42 9
+3	12.8	42 1
+5	14.7	40 2
+8	17.3	37 6
cb.	17.3	37 6
¼	14.3	40.6

¼ +3	12.2	42.7
℄	11.9	43.0
+5	11.7	43.2
¼	11.0	43.9
cb.	9.4	45.5
N	4.7	50.2
+15	+0.3	55.2

For X Section Notes this Intersection See P-51-53

2+00.25 = N½Y Line Plum.

N	+2.9	57.8
cb.	3.4	51.4
¼	6.2	48.7
℄	8.7	46.2
¼	11.1	43.8
cb.	12.2	42.7
+5	12.3	42.6
+12	16.0	38.9
S	16.6	38.3
check. on B.M. 4+21.31 ℄ Viaduct P-30	7.28	47.65 47.66 = B.M. 0.01 - Error.

25' EAST E. Line Plum

-25	8.0	46.9
S	1.6	53.3
cb.	+4.0	58.9
¼	+7.1	62.0
℄	+10.8	65.7
¼	+14.3	69.2

5493

cb.	+16.9	71.8
N	+22.9	77.8
+25	+33.7	88.6

50' E E. Line Plum

-10'	+36.0	90.9
N	+31.6	86.5
cb.	+26.5	81.4
¼	+23.3	77.2
℄	+19.2	74.1
¼	+17.0	71.9
cb.	+14.4	69.3
S	+8.6	63.5
+15	+3.9	58.8
+25	0.2	55.1

Walker
Moy Bliss
Drebert
Mathson 3-27-30

Cross Section NEWELL St. 70' Wide 18' cbs 85½' fs

Int. Clove and Wilson Sts.

8M on Pueblo Hub on P-56

	4.80	112.28		107.48

E&Y line Clove St. = 0+00

CBH

S		0.5	111.8
cb.		1.0	111.3
¼		1.3	111.0
℄		1.6	110.7
¼		2.2	110.1
cb.		2.8	109.5
N		3.9	108.4
	0+50		
N -10		4.0	108.3
N		3.7	108.6
cb.		3.2	109.1
¼		3.2	109.1
℄		2.8	109.5
¼		2.6	109.7
cb.		2.5	109.8
S		2.0	110.3
+10		1.9	110.4
	0+90		
-10		3.6	108.7
S		3.1	109.2
cb.		4.0	108.3
¼		4.5	107.8
℄		5.0	107.3

Plotted 4-24-30

112.28

¼		5.0	107.3
cb.		5.3	107.0
N		6.6	105.7
+10		7.2	105.1
	1+20		
-10		10.6	101.7
N		10.2	102.1
cb.		9.1	103.2
¼		8.4	103.9
℄		8.1	104.2
¼		7.9	104.4
cb.		7.7	104.6
S		7.1	105.2
+10		7.0	105.3
	1+50		
-10		10.0	102.3
S		10.0	102.3
cb.		10.9	101.4
¼		11.0	101.3
℄		11.0	101.3
¼		11.5	100.8
cb.		12.2	100.1
N		12.9	99.4
+10		13.4	98.9 on Line

1+69 = ℄ Dble. Garage on S 18' Wide dirt Floors.

N -10		15.5	96.8

67

112.28 Newell St.

N			16.1	962
cb.			13.9	984
¼			13.5	988
℄			12.8	995
¼			12.5	998
cb.			12.1	1002
S of Garage dirt. Floor.			11.5	1008
	2+00			
-10			12.4	999
S			12.9	994
T.P.	0.68	100.48	12.48	99.80
cb.			2.1	984
¼			2.8	975
℄			3.4	971
¼			4.5	960
cb.			4.9	956
N			6.5	940
+10			6.9	936
	2+25			
-10			11.0	895
N			10.1	904
cb.			8.2	923
¼			7.3	932
℄			5.9	946
¼			5.8	947
cb.			5.2	553

100.48

S			3.4	971
+2			2.2	983
+10			2.0	985
	2+50			
-10			5.7	948
S			6.5	940
cb.			8.0	925
¼			8.7	918
℄			9.1	914
¼			10.2	903
cb.			11.0	895
N			13.7	868
+10			14.9	856
	2+76.88 = WLY Lime Plum			
N			16.9	836
cb.			14.6	859
¼			13.4	871
℄			11.9	886
+6			11.7	888
¼			10.5	900
cb.			9.8	907
S			9.3	912
T.P.	0.27	88.00	12.75	87.73
	ELY Lime Plum = 0+00			
S			6.7	813
cb.			7.9	801

88.00 Newell St.

℄			9.2	78.8
+2			10.6	77.4
℄			11.1	76.9
℄			12.0	76.0
cb.			12.6	75.4
N			18.1	69.9
T.P.	0.18	75.22	12.96	75.04
	0+25			
-25'			16.0	59.2
N			10.3	64.9
+14			7.2	68.0
cb.			5.5	69.7
℄			4.9	70.3
℄			4.2	71.0
+6			3.8	71.4
+¼			2.5	72.7
cb.			1.0	74.2
S			+1.8	77.0
+10'			+3.3	78.5
	0+50			
-10'			2.9	72.3
S			4.6	70.6
cb.			7.0	68.2
℄			8.0	67.2
+1			9.5	65.7
℄			9.7	65.5

75.22

℄			10.5	64.7
cb.			10.9	64.3
+4			13.4	61.8
N			17.5	57.7
+23			22.3	52.9
	0+75			
-15' = Approx. Line Wabasha			30.3	44.9
-13			30.3	44.9
N			24.9	50.3
+13			21.7	53.5
cb.			18.7	56.5
+1			17.7	57.5
℄			16.9	58.3
℄			15.8	59.4
+7			15.0	60.2
℄			13.7	61.5
cb.			12.3	62.9
S			9.8	65.4
+10			8.2	67.0
T.P.	0.04	62.56	12.70	62.52
	0+92.97	See Sketch P-27		
℄-10			+11	63.7
S			1.4	61.2
cb.			3.8	59.8
℄			5.9	56.7
℄			7.8	54.8

NLY ¼		9.4	53.2
+7		10.2	52.4
cb.		11.0	51.6
+6		14.6	48.0
+13		18.2	44.4
N		18.3	44.3
	1+14.39 Sketch P-27		
N cb		18.1	44.5
+4		15.7	46.9
¼		15.0	47.6
℄		14.0	48.6
¼		12.6	50.0
cb.		10.5	52.1
S		4.6	58.0
+10		1.8	60.8
	1+00.2 = ℄ M.H. in ℄ Newell St.		
on Rim MH		10.87	51.69 ✓
" Flow to East		21.85	40.71 ✓
	1+24.5 Sketch P-27		
-10		3.4	59.2
S		5.9	56.7
cb.		11.5	51.1
¼		14.8	47.8
℄		15.7	46.9
¼		16.6	46.0
	1+34.61		

℄			17.2	45.4
¼			17.0	45.6
cb.			12.7	49.9
S			7.5	55.1
+10			4.9	57.7
	1+44.72 See Sketch P-27			
-10			5.7	56.9
S			8.8	53.8
+15			12.6	50.0
cb.			15.5	47.1
+3			18.8	43.8
¼			18.9	43.7
	1+54.83 See Sketch P-27			
cb.			13.6	43.0
+7			18.8	43.8
+14			10.8	51.8
S			9.6	53.0
+10			7.2	55.4
T.P.	10.9	50.78	12.87	43.69
T.P.	3.62	45.96	8.44	42.34
	1+68.80 on N Sketch P-27			
N-40'			0.1	45.8
N-13'			7.8	38.1
-6			12.1	33.8
N			12.8	33.1
+8			12.3	33.6

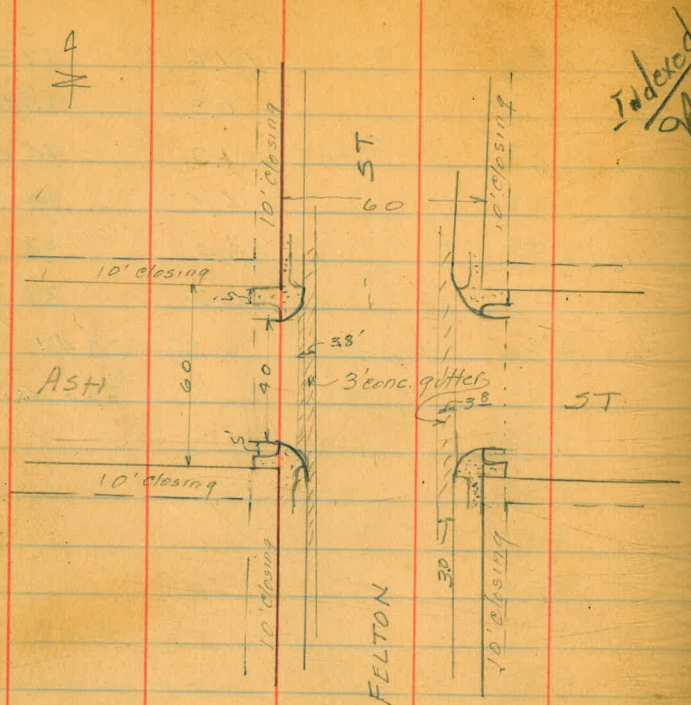
N+13'		8.3	37 6
N cb.		5.4	40 5
	1+78.91 on N		
N ¼		5.8	40.1
+6		8.6	37 3
cb.		11.5	34 4
N		12.5	33 4
+5		7.4	38 5
+40		+2.2	48.1
	1+89.02 Sketch P-27		
-35		+4.0	49 9
-28		+0.9	46.8
N		6.6	39 3
+7		8.5	37 4
+10		12.7	33 2
cb.		13.1	32 8
¼		12.7	33 2
℄		8.6	37.3
	1+99.13		
S ¼		10.1	35 8
+4		12.5	33 4
℄		13.5	32 4
N ¼		13.7	32 2
+5		13.7	32 2
+6		8.4	37 5
cb.		8.0	37.9

N		4.9	41 0
+10		3.2	42 7
+30		+2.7	48.6
	2+09.24		
-30		+4.1	50 0
-12		1.5	44 4
N		2.4	43 5
cb.		7.1	38 8
¼		8.4	37 5
+3		8.7	37 2
+4		14.0	31 9
℄		14.0	31 9
¼		13.8	32 1
+5		12.9	33 0
5 cb.		11.2	34 7
	2+30.66 = 70' Sketch P-27		
S		11.8	34 1
+3		14.0	31 9
+15		14.3	31 6
cb.		13.2	32 7
¼		10.5	35 4
+3		7.7	38 2
℄		7.0	38 9
¼		5.5	40 4
cb.		3.8	42 1
N		0.3	45 6

+10		+1.2	47.1
	2+50		
-10		+4.9	50 8
N		+1.8	47 7
cb.		2.5	43 4
¼		4.2	41 7
℄		5.5	40 4
¼		7.4	38 5
cb.		8.9	37 0
+5		9.7	36 2
+10		15.0	309
S		15.0	309
	2+70		
S	For accts on South see Wabacka	11.2	34 7
+5		8.4	37 5
cb.		6.9	39 0
¼		5.3	40 6
℄		3.5	42 4
¼		1.3	44 6
cb.		+0.9	46.8
N		+5.6	51 5
+10		+9.4	55 3
	2+99.8 - Wily line Willows		
N		+12.8	58.7
cb.		+7.0	52 9
¼		+4.5	50 4

℄		+1.6	47 5
¼		0.3	45.6
cb.		1.9	44 0
S		6.6	39 3
+15		9.4	36 5
+16		16.2	29 7 Willow
Check - SW Prop Hub Page 27		6.55	39.41 + Newell
			39.41
			0.00 = Error.

7/29/30 Loudon



Indexed

X sec. Intersection Felton & Ash
60' inside 10' cbs 40' Rdway.
Sections normal to Ash.

73

B.M.		5.80	207.79	201.99	Mon S.W. Felton & Ash
W.L.	Felton – 10' end cbs = walk.				
S.L.	back walk		4.59	203.20	
cb			4.80	202.99	
gut			5.8	202.0	
+6			5.2	202.6	
¼			5.2	202.6	
℄			4.6	203.2	
¼			4.5	203.3	
gut			4.4	203.4	
cb			4.30	203.49	
N.L.	back walk		4.08	203.71	
	W.L. Felton				
N.L.	back walk		4.07	203.72	
cb			4.33	203.46	
gut			4.8	203.0	
¼			4.8	203.0	
℄			4.8	203.0	
¼			5.1	202.7	
+5			5.0	202.8	
gut			5.5	202.3	
cb			4.86	202.93	
S.L.	back walk		4.63	203.16	

W.L +9.2 West edge cross gutter

S.L.		4.79	203.00
+4.5	top cb on ret.	4.88	202.91
+4.5	gut	5.34	202.45
cb		5.32	202.47
1/4		5.21	202.58
℄		5.12	202.67
1/4		4.99	202.80
cb		4.88	202.91
+5.5	gut	4.83	202.96
+5.5	top cb	4.30	203.49
N.L	back walk	4.25	203.54

Web line Felton

N.L.	top cb	4.27	203.52
N.L	gut	4.87	202.92
cb		4.93	202.86
1/4		5.07	202.72
℄		5.20	202.59
1/4		5.27	202.52
cb		5.39	202.40
S.L.	gut	5.48	202.31
S.L.	top cb	4.82	202.97

207.79

Web line +0.9 dip in gutter.

S.L.		5.42	202.37
cb		5.39	202.40
1/4		5.29	202.50
℄		5.20	202.59
1/4		5.10	202.69
cb		4.99	202.80
N.L.		4.86	202.93

Web line +3' East edge cone gutter

N.L		4.75	203.04
cb		4.87	202.92
1/4		4.96	202.83
℄		5.07	202.72
1/4		5.15	202.64
cb		5.25	202.54
S.L.		5.33	202.46

W. 1/4 line Felton.

S.L.		4.9	202.9
cb		4.7	203.1
1/4		4.6	203.2
℄		4.6	203.2
1/4		4.5	203.3
cb		4.4	203.4
N.L		4.3	203.5

207.79

℄ Felton.

N.L.	3.8	204.0
cb	3.9	203.9
¼	4.1	203.7
℄	4.1	203.7
¼	4.1	203.7
cb	4.2	203.6
S.L	4.3	203.5

E¼ Felton.

S.L.	4.0	203.4
cb	4.2	203.6
¼	4.1	203.7
℄	4.0	203.8
¼	3.9	203.9
cb	3.8	204.0
N.L	3.8	204.0

E¼ +7 w edge conc gutter

N.L	3.96	203.83
cb	4.10	203.69
¼	4.20	203.59
℄	4.32	203.47
¼	4.40	203.39
cb	4.43	203.36
S.L.	4.44	203.35

207.79

E¼ +9.1" dcp in gutter

S.L.	4.57	203.22
cb	4.59	203.20
¼	4.52	203.27
℄	4.47	203.32
¼	4.38	203.41
cb	4.24	203.55
N.L.	4.13	203.66

E cb line Felton.

N.L top cb	3.42	204.37
N.L. gut	4.11	203.68
cb	4.20	203.59
¼	4.36	203.43
℄	4.46	203.33
¼	4.52	203.27
cb	4.55	203.24
S.L gut	4.62	203.17
S.L top cb	3.84	203.95

E cb +0.8 East edge gutter

S.L. back walk	3.83	203.96
+4.5 top cb ret	3.86	203.93
+4.5 gut	4.51	203.25
cb	4.51	203.28
¼	4.48	203.31
℄	4.39	203.40
¼	4.30	203.49
cb	4.18	203.61

207.79

Feb +0 8

+5 5	qct.	4.15	203.64
+5 5	top cb ret.	3.44	204.35
N.L.	back walk	3.40	204.39
	East line Felton		
N.L.		3.20	204.59
cb		3.43	204.36
qct		3.7	204.1
1/4		3.6	204.2
℄		3.8	204.0
1/4		4.0	203.8
qct		4.3	203.5
cb		3.70	204.09
S.L.	back walk	3.59	204.20
	East line +10 and inputs.		
S.L.		2.2	205.6
cb	grd.	2.8	205.0
S.L.	top cb	3.77	204.02
1/4		3.0	204.8
℄		3.0	204.8
1/4		3.2	204.6
qct		3.1	204.7
cb		3.44	204.35
+3		2.7	205.1
N.L.	back walk	3.22	204.57

207.79

T.P	4.08	201.43	10 44	197.35		
B.M	Nail NE	base of	8 58	192.85	cb K.	

Stake Lot 2 Blk. 9 Pt. Loma Hgts } Also Add { Lots 1+2 Blk 119 Roseville

77

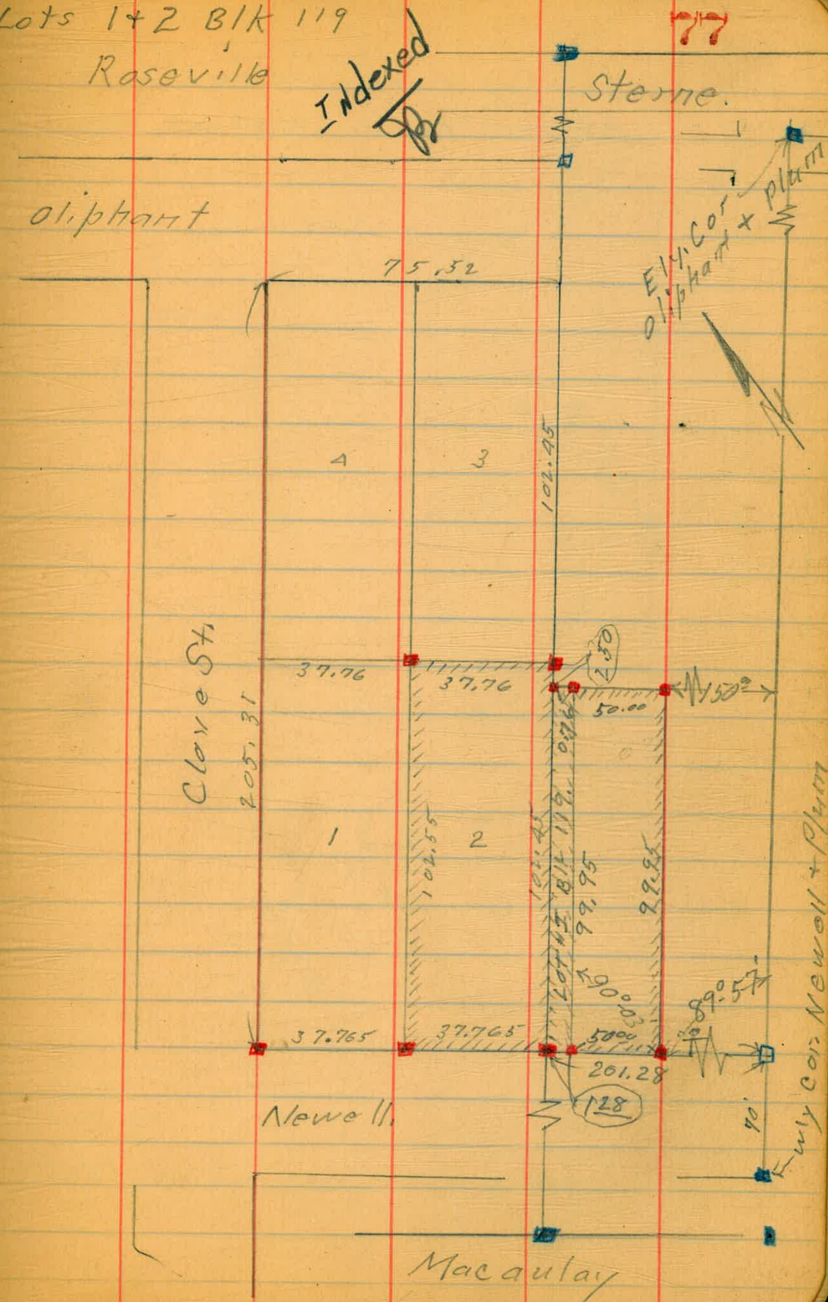
W.O. 90005
12-8-47

Sommermeyer
W Moore
E Sherman

■ = Set. 2x2 Hub + C.T.
□ = Fd. 2x2 Hub
■ = Fd. Mon.

Reference Books
T.P. 26 - p. 6
1387 - 7+8

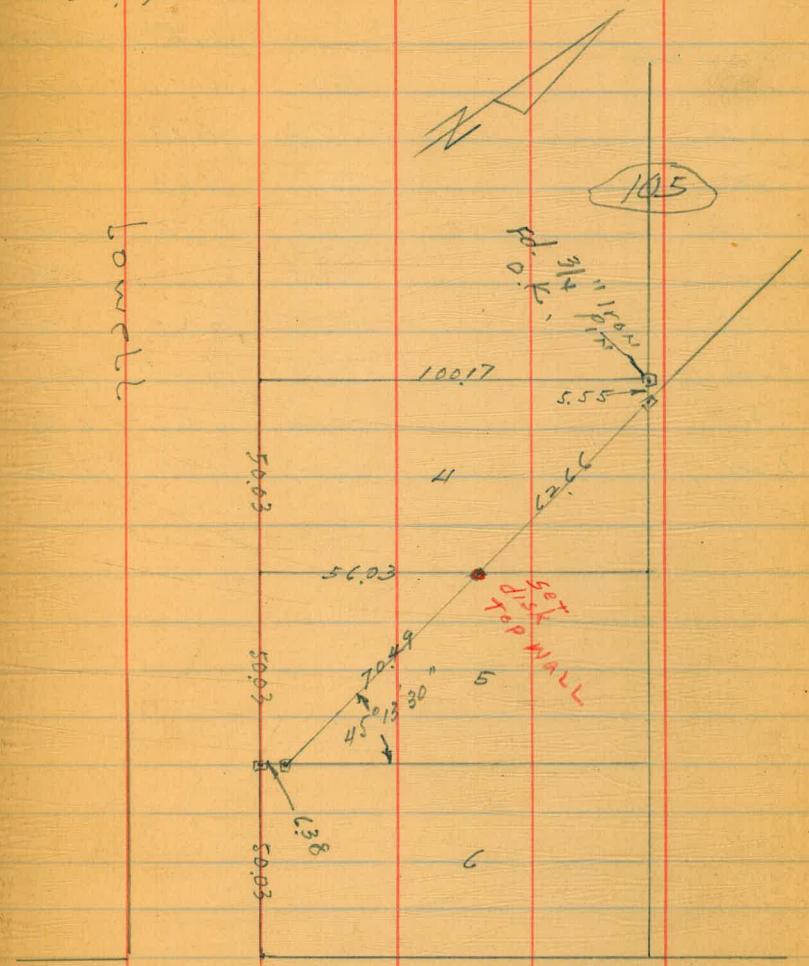
Lot corners marked by 2x2 Hubs + Tack and guard stakes with flags.



Survey Lots 4-5-6
Blk 105 Roseville

⊡ 2x2 hubs, disks

Moore
Sherman
Bunch
8-11-x8
W.O. 90051



P. 80 for TIE PTS Evergreen

Walker indexed C-3-K-

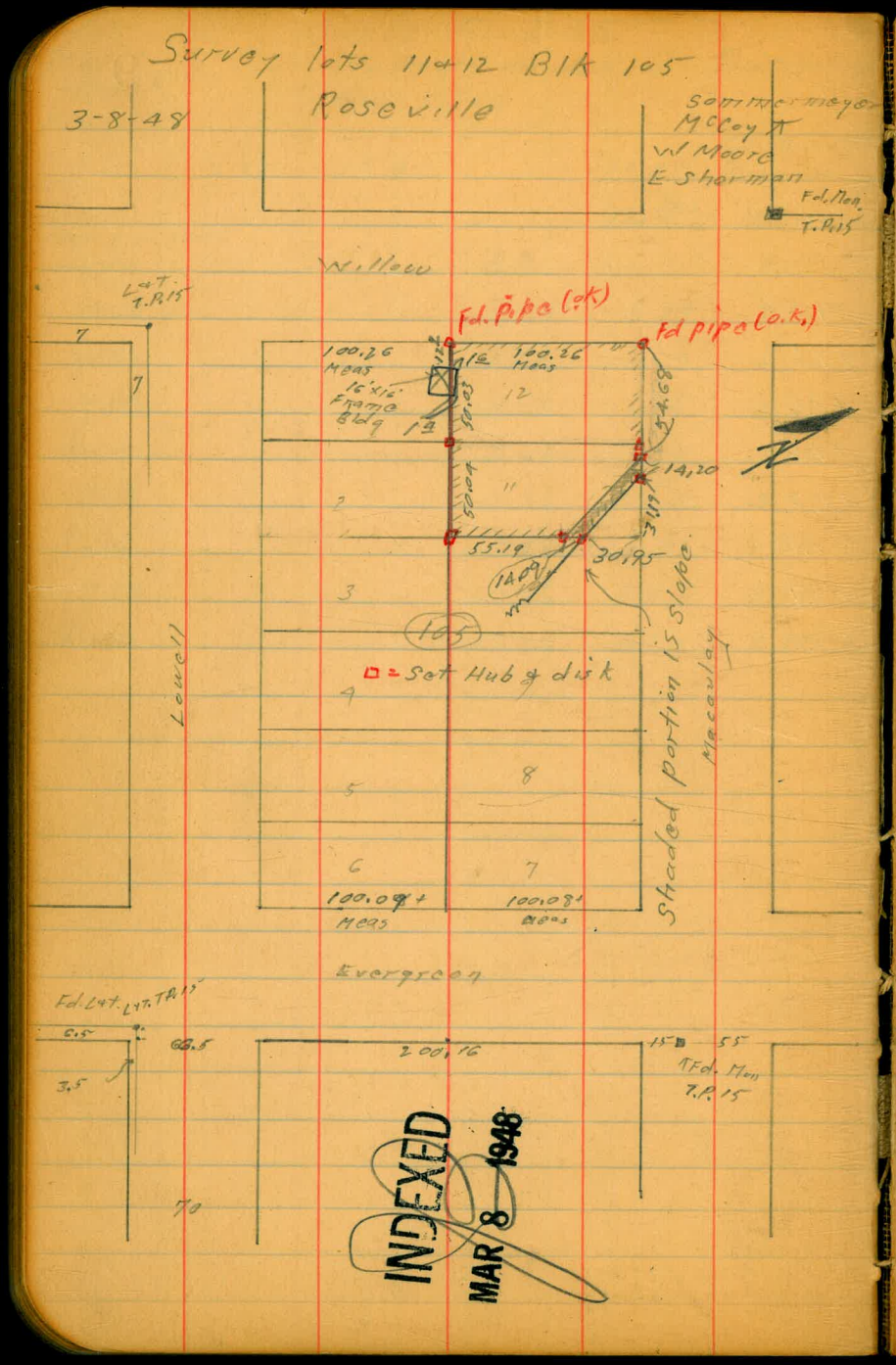
Wm Bliss
Drebert 3-10-30
Muthoy

LEVELS For Ditch.

ON MACAULAY St. East of Rosecrans St.

GRADES = 0.5 %

	2.85	15.41		12.56	S.W. top Hyd't. Rosecrans & Macaulay
				Elev. Stub. Ground	Flow Line Cuts.
Flow Line outlet					
=0+00			8.9	6.	6.5
+50			7.28	8.13	6.25 +1.88
1+00			7.72	7.69	6.00 +1.69
+50			8.07	7.34	5.75 +1.6
2+00			8.41	7.00	5.50 +1.5
+50			8.96	6.45	5.25 +1.2
3+00			9.40	6.01	5.00 +1.0
+50			9.96	5.45	4.75 +0.7
4+00			10.95	4.46	4.50 +0.0



IMPROVED TABLES AND INFORMATION

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ 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 No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

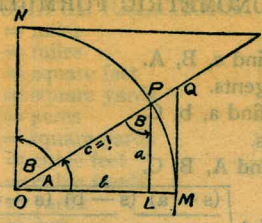


TABLE II

TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$R = OB = c = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B \#$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2} A = \sqrt{\frac{1 - \text{Cos } A}{2}} \qquad \cos \tfrac{1}{2} A = \sqrt{\frac{1 + \text{Cos } A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

Law of Sines $\quad \dfrac{\sin A}{a} = \dfrac{\sin B}{B} = \dfrac{\sin C}{C}$

Law of Cosines $\quad c^2 = a^2 + b^2 - 2ab \cos C$

Law of Tangents $\quad \dfrac{a+b}{a-b} = \dfrac{\tan \frac{1}{2}(A+B)}{\tan \frac{1}{2}(A-B)}$

TABLE II—Continued
TRIGONOMETRIC FORMULAE (continued)

In any triangle:

Given a, b, C; to find c, B, A.

Use Law of Tangents.

Given A. B. c; to find a, b, C.

Use Law of Sines.

Given a, b, c; to find A, B, C.

$$\text{Let } \frac{a+b+c}{2} = s, \quad \sqrt{\frac{(s-a)}{s}\frac{(s-b)}{s}\frac{(s-c)}{s}} = r$$

$$\cos \tfrac{1}{2} A = \sqrt{\frac{s(s-a)}{bc}}$$

$$\tan \tfrac{1}{2} A = \frac{r}{s-a}$$

$$\tan \tfrac{1}{2} B = \frac{r}{s-b}$$

$$\tan \tfrac{1}{2} C = \frac{r}{s-c}$$

Area of a triangle:

$$\text{Area} = \tfrac{1}{2} ab \sin C$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

PRISMOIDAL FORMULA.

$$\text{Vol.} = \frac{h}{6}(B+b+4M)$$

h = altitude; b, B = bases; M = midsection

TABLE III
INCHES AND FRACTIONS OF AN INCH IN DECIMALS OF A FOOT

	0	1	2	3	4	5	6	7	8	9	10	11	
1/16	.0052	.0885	.1719	.2552	.3385	.4219	.5052	.5885	.6719	.7552	.8385	.9219	1/16
1/8	.0104	.0938	.1771	.2604	.3438	.4271	.5104	.5938	.6771	.7604	.8438	.9271	1/8
3/16	.0156	.0990	.1823	.2656	.3490	.4323	.5156	.5990	.6823	.7656	.8490	.9323	3/16
1/4	.0208	.1042	.1875	.2708	.3542	.4375	.5208	.6042	.6875	.7708	.8542	.9375	1/4
5/16	.0260	.1094	.1927	.2760	.3594	.4427	.5260	.6094	.6927	.7760	.8594	.9427	5/16
3/8	.0313	.1146	.1979	.2813	.3646	.4479	.5313	.6146	.6979	.7813	.8646	.9479	3/8
7/16	.0365	.1198	.2031	.2865	.3698	.4531	.5365	.6198	.7031	.7865	.8698	.9531	7/16
1/2	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583	1/2
9/16	.0469	.1302	.2135	.2969	.3803	.4635	.5469	.6302	.7135	.7969	.8802	.9635	9/16
5/8	.0521	.1354	.2188	.3021	.3854	.4688	.5521	.6354	.7188	.8021	.8854	.9688	5/8
11/16	.0573	.1406	.2240	.3073	.3906	.4740	.5573	.6406	.7240	.8073	.8906	.9740	11/16
3/4	.0625	.1458	.2292	.3125	.3958	.4792	.5625	.6458	.7292	.8125	.8958	.9792	3/4
13/16	.0677	.1510	.2344	.3177	.4010	.4844	.5677	.6510	.7344	.8177	.9010	.9844	13/16
7/8	.0729	.1563	.2396	.3229	.4063	.4896	.5729	.6563	.7396	.8229	.9063	.9896	7/8
15/16	.0781	.1615	.2448	.3281	.4115	.4948	.5781	.6615	.7448	.8281	.9115	.9948	15/16
1	.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	1.000	1
	0	1	2	3	4	5	6	7	8	9	10	11	

TABLE IV
USEFUL RELATIONS.

Lineal feet	×.00019	= miles
Lineal yards	×.0006	= miles
Square inches	×.007	= square feet
Square feet	×.111	= square yards
Square yards	×.0002067	= acres
Acres	×4840	= square yards
Cubic inches	×.00058	= cubic feet
Cubic feet	×.03704	= cubic yards
Links	×.22	= yards
Links	×.66	= feet
Feet	×1.5	= links

360° = 21600′ = 1296000″

Radius = arc of 57.2957790°

Arc of 1° (radius = 1) = .017453292

Arc of 1′ (radius = 1) = .000290888

Arc of 1″ (radius = 1) = .000004848

$\pi = 3.141592654$	$\sqrt{\frac{1}{4}} = 0.564190$
$\frac{\pi}{4} = 0.785398163$	$\sqrt[3]{\frac{6}{\pi}} = 1.240700982$
$\frac{\pi}{6} = 0.523598776$	$\pi^2 = 9.869604401$
$\sqrt{\frac{4}{\pi}} = 1.128379167$	$\frac{1}{\pi^2} = 0.101321184$
$\frac{\pi}{6} = 0.523598776$	$\sqrt{\pi} = 1.772453851$
$\frac{4.\pi}{3} = 4.188790205$	$\frac{1}{\pi} = 0.3183099$

Curvature of Earth's surface = about 0.7 feet in 1 mile

Curvature in feet = 0.667 (Dist. in miles)²

Difference between arc and chord length, 0.05 feet in 11½ miles

$$\text{Probable error of a single observation} = 0.6754\sqrt{\frac{Mv^2}{n-1}}$$

Error in chaining of 0.01 feet in 100 feet:

Due to—

1. Length of tape error of 0.01 feet
2. Alignment. One end 1.4 feet out of line
3. Sag of tape at centre of 0.61 feet.
4. Temperature difference of 15°
5. Difference of pull of 15 lbs.

STADIA REDUCTION FORMULÆ.

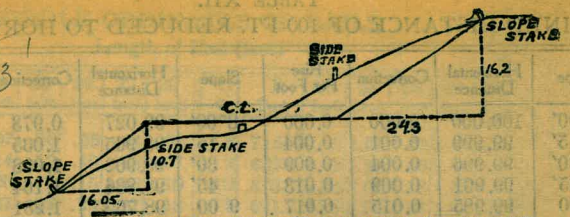
Horizontal Distance = $R - R \sin^2 a + C \cos a$

Vertical Distance = $R \tfrac{1}{2} \sin 2a + C \sin a$

$$R = \text{Reading} \times \frac{\text{distance from Object glass to cross hairs}}{\text{distance between cross hairs}}$$

C = distance from Object glass to cross hairs + distance from Object glass to center of instrument.

a = angle of elevation for mid Reading



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	71.25	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

Computed by L. Leland Locke.

108.82
126
2348.2

30.95
121.04
100.19
4504
45.19

91.44
62.43
106.03
259.90

13701
1717
11984

46.23
59
10.520

187
113
300

148
35
113

11053
9978
1109

210
105
60
45

10 03 30
50 02

116.28
59
46.23
221.51

300
221.5
78.5

1432.7
2
2865.4
.08774
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200578
229232
251.410196

.08774