1250

PASTE

LEVEL BOOK

No. 380 F

MICROFILMED
DEC 22 1964

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter *"F"* to catalog number.

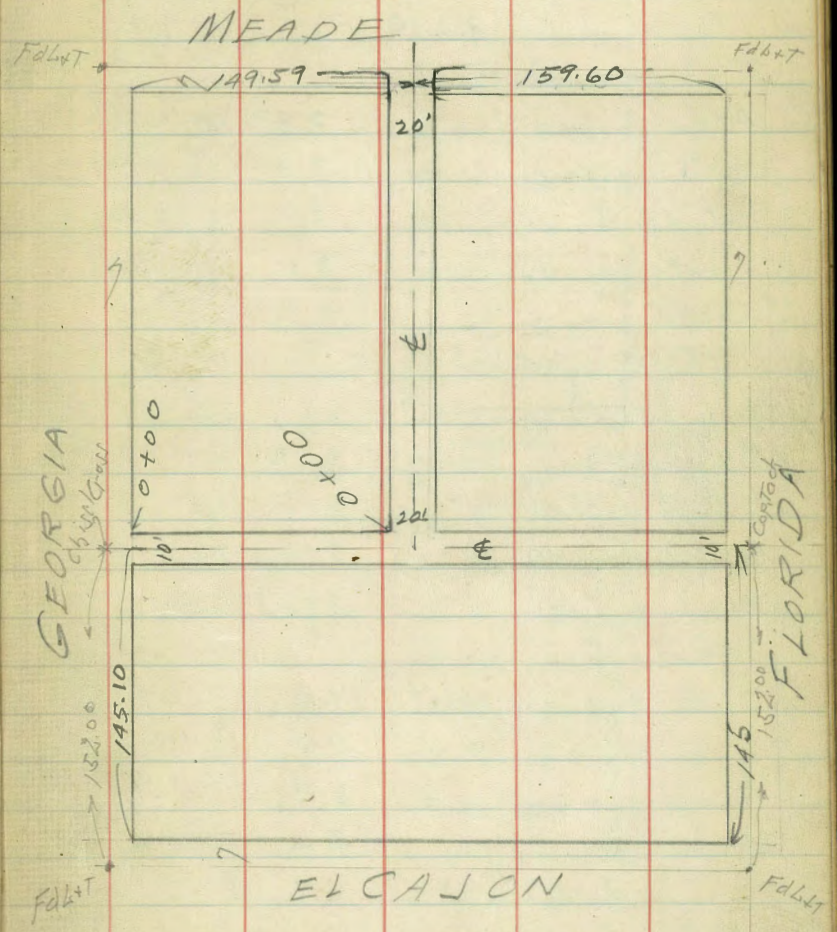
THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

ind. c.s.k.

May 10-28

London
Isbell

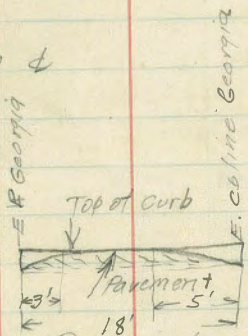
Cross-section Alley Blk 99 Univ. Hts



June 12-45
Sisson
Bliss
Osborne

E-W Alley

Sta	+	H.I	−	El.	
B.M.	0.52	344.11		343.59	B.P. S.E. Geo. & Alley
T.P.	1.04	332.40	12.75	331.36	
E cb line Georgia					
Acb			2.33	330.07	
Gut			2.80	329.60	
Gut. on ℄			3.14	329.26	
S Gut.			3.56	328.84	
S cb			2.96	329.44	
0+00					
S cb			2.67	329.73	
Pav S.L.			3.42	328.98	
℄ Pav			3.15	329.25	
N.L. Pav			2.92	329.48	
N cb			2.02	330.38	
0+6					
10' N		332.4	6.0	326.4	
N.L.			4.0	328.4	
℄			3.4	329.0	
S.L.			7.6	324.8	
10' S			7.9	324.5	
0+10					
10' S			10.4	322.0	
S.L.			9.3	322.1	
+2			7.6	325.8	
℄			4.5	327.9	



Plotted 6-7-28. GBH

Sta	+	H.I	−	El.
0+10		332.40		
N.L.			5.3	327.1
8' N			5.6	326.8
6' N			7.1	325.3
10' N			7.1	325.3
0+22				
8' N			8.3	324.1
N.L.			8.6	323.8
℄			9.0	323.4
S.L.			10.5	321.9
10' S			10.9	321.5
0+38				
8' S			11.2	321.2
S.L.			10.8	321.6
℄			10.2	322.2
+1			9.5	322.9
N.L.			9.0	323.4
8' N			9.1	323.3
0+51				
8' N			9.8	322.6
N.L.			10.2	322.2
℄			10.3	322.1
S.L.			10.7	321.7
8' S.			11.3	321.1

Sta	+	332.40 H.I	—	El.
0+65	℄ Single Garage		5'S.	earth floor ✓
			11.5	320.9
0+72				
6' S			11.7	320.7
S.L.			11.5	320.9
℄			11.0	321.4
N.L.			10.8	321.6
6'N			10.6	321.8
0+78	W end curb around Conc court back of House at bungalo court # (on S.L)			✓
			11.95	320.45
1+02	E end same curb 0.2' S.			✓
			12.06	320.34
1+02				
S.L			12.2	320.2
℄			12.2	320.2
N.L			12.1	320.3
5' N		332.40	11.7	320.7
1+03	W end 2 car garage 0.3' S			Conc floor ✓
			12.18	320.22
1+22	E end same garage 0.5' S.			✓
			12.13	320.27
1+25				
5'N			12.6	319.8
NL			12.6	319.8
℄			12.6	319.8

1+25		332.40		
S.L			12.6	319.8
1+39.59 W.L Alley N-S.				
S.L.			13.2	319.2
℄			13.0	319.4
N.L.			13.1	319.3
0+45	℄ Single garage 0.6' S. Conc. floor			✓
			12.60	319.80
0+49.59 top M.H on ℄			12.50	319.90 ✓
1+59.59 = E.L. Alley N-S.				
XT.P.	1.53	320.81	13.12	319.28
N.L.			2.8	318.0
℄			2.7	318.1
S.L.			2.7	318.1
5'S			2.4	318.4
1+72				
5'S			4.2	316.6
S.L			4.0	316.8
℄			3.9	316.9
N.L			3.3	317.5
1+86				
N.L			3.7	317.1
+2			3.7	317.1
℄			4.4	316.4
S.L.			4.4	316.4

Sta	+	H.I	–	El
1+86		320.81		
5'S			4.4	316.4
1+94	Conc walk 0.5 in alley N side			✓
			3.78	317.03
2+00				
N.L.			4.5	316.3
+2			4.6	316.2
℄			4.9	315.9
S.L			4.8	316.0
5'S			4.6	316.2
2+15				
5'S			5.4	315.4
S.L			5.5	315.3
℄			5.7	315.1
~~H.L~~			5.5	315.3
N.L			5.5	315.3
5'N			5.5	315.3
2+15 ℄	Single garage		17.6' N	Conc floor ✓
			5.21	315.60
2+30	Conc. ~~walk~~ 1.5' N (back of house facing Florida) ✓			
			6.23	314.58
2+30		320.8		
N.L.			6.1	314.7
℄			6.6	314.2
~~S~~ 4			6.2	314.6

Sta	+	H.I	–	El
2+30		320.81		
S.L			6.4	314.4
5'S.			5.6	315.2
2+50				
5'S			6.2	314.6
3'S			6.3	314.5
2'S			7.5	313.3
S.L.			7.7	313.1
℄			7.9	312.9
+4			7.6	313.2
N.L.			6.9	313.9
2+72				
N.L.			8.6	312.2
+1			9.8	311.0
+3			10.4	310.4
℄			10.1	310.7
+4			10.0	310.8
S.L.			8.9	311.9
2'S			7.6	313.2
5'S			7.4	313.4
2+90				
5'S			9.6	311.2
2'S			9.8	311.0
S.L			12.6	308.2
+2			13.2	307.6

2+90		320.81			
℄			13.0	307.8	
+2			13.2	307.6	
+3			12.8	308.0	
N.L.			10.6	310.2	
5'N			10.7	310.1	
T.P.	3+14	311.25	12.70	308.11	
3+06					
N.L			2.6	308.6	
+1			5.7	305.5	
+3			6.5	304.7	
℄			6.2	305.0	
+3			6.3	304.9	
S.L			6.0	305.2	
1'S			3.6	307.6	
2'S		311.25	2.8	308.4	
3+09 ℄ = W.L Florida					
top S cb			6.97	304.28	
S.L			6.7	304.5	
+2			6.9	304.3	
+3			6.9	304.3	
℄			6.6	304.6	
+1.5			6.8	304.4	
+3			6.6	304.6	
N.L			6.4	304.8	

3+09 ℄		311.25			
top N cb on W.L. Florida ends on N.L. Alley			6.78	304.47	
Top retaining wall			2.62	308.63	✓
W. cb line Florida					
N cb			6.98	304.27	
S cb			7.17	303.08	
N-S Alley 0+00 = N.L. E-W Alley					
T.P.	9.54	328.82		319.28	
0+00					
W.L.			9.5	319.3	
+5			9.5	319.3	
℄			9.6	319.2	
+8			9.9	318.9	
E.L			10.7	318.1	
0+10 Back of house 0.1 below floor Conc step 1'6 E.			9.95	318.87	✓
0+25					
E.L			9.8	319.0	
+2			9.8	319.0	
+7			9.1	319.7	
℄			9.2	319.6	
+8			9.0	319.8	
W.L			8.6	320.2	

0+42	328.82			
W.L.		7.8	321.0	
+1		7.8	321.0	
+2		8.5	320.3	
+7		8.5	320.3	
℄		8.9	319.9	
+8		9.2	319.6	
+9		10.0	318.8	
E.L.		10.0	318.8	
0+49 conc walk 2' in alley on E.				✓
		9.51	319.31	
0+50 s end of house 2' in alley on E.				✓
approx floor level		9.1	319.31	✓
0+75 N end same house				
0+75	328.82			
E.L.		8.6	320.2	
+4		8.3	320.5	
℄		8.0	320.8	
+4		8.0	320.8	
+8		8.1	320.8	
+9		7.3	321.5	
W.L.		7.2	321.6	
0+96				
W.L.		7.3	321.5	
+3		7.7	321.1	

0+96	328.82			
℄		7.6	321.2	
+5		7.6	321.2	
E.L.		7.5	321.3	
1+01 s end s car garage 3.4' E Conc floor.				✓
		6.62	322.20 (Conc approach to E.L.)	
1+41 N end same garage 3.4' E				✓
		6.61	322.21	
1+25				
E.L.		6.7	322.1	
℄		7.4	321.4	
W.L.		7.0	321.8	
1+45 ℄ single garage 0.2' W earth floor.				✓
		6.7	322.1	✓
1+45 s end 3 car garage 4' E Conc floor approach extended to E.L.		6.57	322.25	✓
1+70 N end same garage 4' E.				✓
		6.58	322.24	✓
1+70 s end of conc walk back of house on E.L. (walk steps) top		6.19	322.63	✓
bottom		6.65	322.17	✓
1+70				
E.L.		6.6	322.2	
+6		6.2	322.6	
℄		6.1	322.7	

1+70	328.82			
℄+5		6.1	322.7	
+8		6.0	322.8	
W.L		5.3	323.5	
1+85				
W.L.		5.4	323.4	
+4		5.6	323.2	
℄		5.5	323.3	
E.L on conc walk on E.L.		5.59	323.23	✓
2+00 5 and 3 car garage 4'E Conc floor Approach (conc) extended to E.L				
		5.10	323.22	✓
2+24 N end same garage 4.2' E.				✓
		5.10	323.22	
2+24				
E.L		5.10	323.22	
+7		4.1	324.7	
℄		3.9	324.9	
+6		3.1	325.7	
+9		3.4	325.4	
W.L.		2.6	326.2	
2+26 5 end 2 car garage 4.3' E Conc floor				
		4.12	324.70	
2+41 N end same garage 4.3' E				
		4.14	324.68	

2+29	328.82			
W.L		0.7	328.1	
+2		3.2	325.6	
+4		2.9	325.9	
℄		3.5	325.3	
+6		3.6	325.2	
E.L.		3.9	324.9	
2+40				
E.L		3.6	325.2	
+4		2.8	326.0	
℄		2.7	326.1	
+5		2.2	326.6	
+8		2.7	326.1	
+9		0.7	328.1	
W.L.		0.5	328.3	
2+44 5 end 2 car garage 4.3 E Conc floor				✓
		3.08	325.74	✓
2+60 N end same garage 4.3'E				✓
		3.06	325.76	
TIP 5	10.00	336.26	2.56	326.26
2+45				
W.L.		7.1	329.2	
+1		7.6	328.6	
+2		9.9	326.4	
+5.		9.4	326.9	

2+45	336.26			
℄		9.9	326.4	
+8		10.0	326.2	
E.L		10.3	326.0	
2+63				
E.L		9.4	326.9	
+2		9.1	327.2	
℄		9.1	327.2	
+5		8.7	327.6	
+8		9.2	327.1	
W.L.		6.2	330.2	✓
2+75	Send 2 car garage	2.9'E	Conc floor	
		8.26	328.00	✓
2+91	Nend	Same garage	2.7'E.	✓
		8.30	327.96	
2+80				
W.L.		5.8	330.5	
+2		8.6	327.7	
+3		8.0	328.3	
+6		8.0	328.3	
℄		8.3	328.0	
+3		8.6	327.7	
E.L.		8.4	327.9	
3+00				
E.L		7.6	328.7	

3+00	336.26			
℄		7.5	328.8	
+7		7.6	328.7	
+9		7.8	328.5	
W.L		5.3	331.0	
3+00	Send 3 car garage	2.7'E.	Conc floor	✓
		7.38	328.88	✓
3+24	Nend	Same garage	2.8'E	✓
		7.34	328.92	
3+25				
W.L		4.1	332.2	
+1		6.5	329.8	
+3		6.8	329.5	
+5		6.6	329.7	
℄		6.8	329.5	
+6		7.0	329.3	
E.L.		7.4	328.9	
3+33	℄ Single garage	2.9'E	Conc floor	✓
		7.04	329.22	
3+42				
E.L.		6.7	329.6	
+4		6.4	329.9	
+6		6.5	329.8	
℄		6.2	330.1	
+1		6.2	330.1	

3+42	336.26			
℄ +3		5.9	330.4	
+8		5.5	330.8	
W.L.		3.3	333.0	
3+56				
W.L.		3.7	332.6	
+2		3.9	332.4	
+4		5.1	331.2	
℄		5.4	330.9	
+6		5.7	330.6	
E.L.		6.0	330.3	
3+80				
E.L.		6.0	330.3	
+4		5.5	330.8	
℄		5.3	331.0	
+7		4.5	331.8	
+8		3.6	332.7	
W.L.		3.1	333.2	
3+87				
W.L.		2.9	333.4	
+3		3.3	333.0	
+4		4.6	331.7	
℄		5.2	331.1	
+6		5.6	330.7	
E.L		6.6	329.7	

4+00	336.26			
E.L.		6.8	329.5	
+7		5.8	330.5	
℄		5.4	330.9	
+7		4.3	332.0	
+7.5		2.7	333.6	
W.L.		2.0	334.3	
4+05 ℄ Single garage 10.3'E earth floor ✓				
		7.0	329.26	✓
4+11 Back of house fronting on Meade 3.3'E				
4+15				
W.L.		2.1	334.2	
+2		2.6	333.7	
+3		4.0	332.3	
℄		4.7	331.6	
+5		5.0	331.3	
+7		6.0	330.3	
+8		6.0	330.3	
E.L.		5.3	331.0	
4+30				
E.L. conc. walk on E.L.		5.64	330.62	
+2		5.4	330.9	
+4		4.3	332.0	
℄		4.1	332.2	
+8		3.6	332.7	

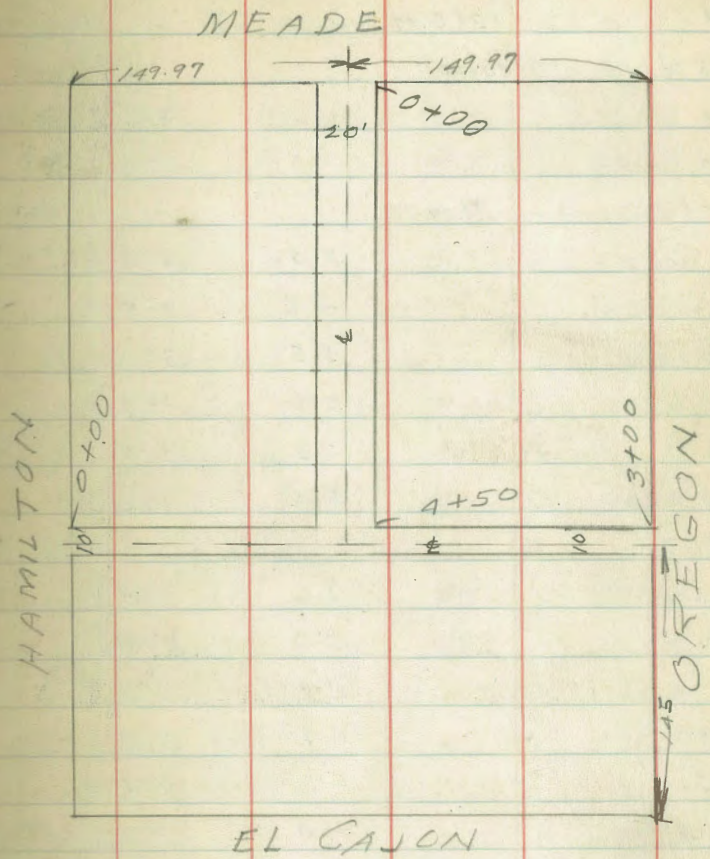
H+30		336.26		
℄ +8.5			2.3	334.0
W.L.			1.6	334.7
H+45				
W.L.			1.5	334.8
+1			1.6	334.7
+2			3.6	332.7
℄			3.8	332.5
+7			4.2	332.1
+9			5.5	330.8
E.L.	conc walk on EL.		5.64	330.62
H+50 = S.L. Meade				
top Ecb			5.92	330.54
E.L.			5.7	330.6
+2			5.3	331.0
+4			4.6	331.7
℄			4.0	332.3
+8			3.6	332.7
+9			2.9	333.4
W.L			3.0	333.3
W cb			3.21	333.05
S cb line Meade				
W cb			3.24	333.02
E cb			6.02	330.24
T.P.	12.41	344.06	4.61	331.65
B.M	Beginning		0.47	343.59

Ind. C.S.K.

May 11 – 28
London
Isbel.

9

Cross-section Alley Blk 106 Univ Hts.



N-S Alley

Sta	+	H.I	−	El	
B.M	3.26	380.49		377.23	B.P. S.E Oregon & Meade
Scb line Meade					
top Ecb			5.43	375.06	
top Wcb			5.58	374.91	
0+00 = S.L Meade					
top Wcb			5.56	374.93	
W.L			5.8	374.7	
+3			5.5	375.0	
℄			5.6	374.9	
E.L.			5.3	375.2	
top Ecb			5.21	375.28	
0+07					
E.L			4.6	375.9	
+3			5.0	375.5	
℄			4.8	375.7	
+3			4.9	375.6	
+5			4.6	375.9	
W.L			4.9	375.6	
0+15					
W.L			4.7	375.8	
+6			4.2	375.3	
℄			4.4	376.1	
+5			4.5	376.0	
E.L			4.2	376.3	

Plotted - 5-24-28

CBH

Blk 106

Sta	+	H.I	−	El
0+36		380.49		
E.L			4.2	376.3
+4			3.9	376.6
℄			4.5	376.0
+4			4.5	376.0
+6			4.9	375.6
W.L			4.9	375.6
0+37 N end Conc. Court back of house 1.2' W ✓				
0			4.84	375.65
0+50 S end Same Court 1.2' W				
			4.74	375.75 ✓
0+47				
W.L			5.1	375.4
℄			5.0	375.5
+6			4.7	375.8
E.L			4.8	375.7
0+70				
E.L			5.0	375.5
+4			4.5	376.0
℄			4.7	375.8
+5			4.5	376.0
W.L			4.8	375.7
0+88				
W.L			5.4	375.1
℄			5.5	375.0

N & S Alley

Sta	+	H.I	−	El
0+88		380.49		
℄ +4			5.8	374.7
E.L			5.3	375.2
1+00				
E.L.			5.4	375.1
+6			5.7	374.8
℄			5.7	374.8
+6			5.4	375.1
W.L.			5.4	375.1
1+07				
W.L.			5.2	375.3
+4			5.2	375.3
+7			5.7	374.8
℄			5.6	374.9
+4			5.7	374.8
E.L.			5.4	375.1
1+20				
E.L.			5.8	374.7
+4			5.6	374.9
℄			5.7	374.8
+2			5.6	374.9
+4			5.2	375.3
W.L			5.5	375.0

Blk 106

Sta	+	H.I	−	El.
1+34		380.49		
W.L			5.8	374.7
℄			6.0	374.5
+2			6.0	374.5
+5			5.7	374.8
E.L			5.8	374.7
1+57				
E.L.			5.1	375.4
+4			5.0	375.5
+7			5.1	375.4
℄			4.9	375.6
+2			4.9	375.6
+4			4.5	376.0
+7			4.1	376.4
W.L			4.9	375.6
1+65				
W.L			4.9	375.6
+3			4.4	376.1
+7			4.3	376.2
℄			4.6	375.9
+6			4.6	375.9
E.L			5.0	375.5
1+90				
E.L			5.6	374.9
+5			5.2	375.3

N + S. Alley

Sta	+	H.I	−	El.
1+80		380.49		
℄			5.2	375.3
W.L			5.5	375.0
2+00				
W.L			5.5	375.0
+6			5.6	374.9
+9			5.3	375.2
℄			5.6	374.9
+2			5.4	375.1
E.L			5.6	374.9
2+15 ℄	Single garage		8' W.	Conc. Floor ↓
			5.23	375.26
2+25				
E.L			5.6	374.9
+8			6.2	374.3
℄			5.9	374.6
+5			5.7	374.8
+7			5.9	374.6
W.L			5.7	374.8
2+50				
W.L			4.8	375.7
+5			6.3	374.2
℄			6.5	374.0
+5			6.3	374.2
E.L			6.3	374.2

Blk 106

Sta	+	H.I	−	El.
2+75		380.49		
E.L			6.3	374.2
+6			6.4	374.1
℄			6.3	374.2
+3			6.3	374.2
W.L.			5.9	374.6
3+00				
W.L			6.1	374.4
+7			6.5	374.0
℄			6.6	373.9
+3			6.7	373.8
E.L			6.4	374.1
T.P.	5.66	379.69	6.46	374.03
3+22				
E.L			5.6	374.1
℄			5.6	374.1
W.L.			5.4	374.3
3+37				
W.L.			4.8	374.9
+4			4.5	375.2
℄			4.9	374.8
+5			4.9	374.8
E.L			5.0	374.7

N.&S. Alley

Sta	+	H.I	—	El.
		379.69		
3+38	House	facing	Alley 5.4' E.	
			4.14	375.55
3+49				
E.L			5.1	374.6
+5			4.7	375.0
℄			4.8	374.9
W.L.			4.9	374.8
3+63				
W.L			5.3	374.4
℄			5.5	374.2
E.L			5.5	374.2
3+84				
E.L.			5.7	374.0
+7			5.6	374.1
℄			5.5	374.2
+4			5.0	374.7
W.L.			5.0	374.7
4+00				
W.L			5.3	374.4
+5			5.0	374.7
℄			5.2	374.5
+4			5.4	374.3
E.L			5.8	373.9

Blk. 106

13

Sta	+	H.I	—	EL
4+11		379.69		
E.L			5.8	373.9
+3			5.7	374.0
+6			6.0	373.7
℄			6.0	373.7
+4			5.5	374.2
W.L			5.8	373.9
4+25				
W.L			5.8	373.9
+6			5.8	373.9
℄			5.7	374.0
+5			5.5	374.2
E.L			5.8	374.9
4+35				
E.L			4.6	375.1
+5			4.4	375.3
℄			4.9	374.8
+5			4.8	374.9
W.L.			5.4	374.3
4+41				
W.L			5.1	374.6
+8			4.2	375.5
℄			4.4	375.3
+4			4.0	375.7
E.L			4.0	375.7

E & W. Alley

	379.69		
4+50 = N.L	E-W Alley		
E.L		4.1	375.6
+5		4.2	375.5
℄		4.5	375.2
+6		4.6	375.1
W.L		5.4	374.3
	E-W Alley		
Ecb line Hamilton			
top Scb		10.74	368.95
Gut.		11.33	368.36
Gut. at ℄		11.32	368.37
Gut		11.26	368.43
top Ncb		10.69	369.00
0+00 = E.L Hamilton			
top Ncb		10.05	369.64
N.L Pav.		10.30	369.39
℄ Pav.		10.45	369.24
S.L. Pav.		10.45	369.24
top Scb		10.30	369.39
0+04			
S.L.		8.8	370.9
+3		9.2	370.5
℄		9.2	370.5
+2		9.2	370.5
N.L.		8.7	371.0

Blk 106

Sta	379.69		
0+09			
N.L		9.3	371.4
+2		8.4	371.3
+3		8.8	370.9
℄		8.5	371.2
S.L		8.3	371.4
0+10 W end A car garage 7.8'S Conc Floor			
		7.32	372.37
0+50 E end Same garage 7.8'S			
		6.75	372.94
0+30			
S.L		7.7	372.0
℄		7.5	372.2
+3		7.6	372.1
N.L.		7.4	372.3
0+50			
N.L		6.8	372.9
+2		7.2	372.5
℄		7.0	372.7
S.L		7.0	372.7
0+57 W. End A car garage 7.8'S Conc. Floor			
		6.72	372.97
0+97 E end Same garage 7.8'S			
		5.97	373.72

Eq-W. Alley

0+75	379.69		
S.L.		6.6	373.1
℄		6.6	373.1
N.L		6.7	373.0
0+95			
N.L.		5.8	373.9
+2		6.0	373.7
℄		5.9	373.8
S.L		6.0	373.7
1+04			
S.L		5.1	374.6
+2		6.0	373.7
℄		5.3	374.4
+3		5.3	374.4
N.L		5.6	374.1
1+20			
N.L.		5.8	373.9
+3		5.7	374.0
℄		6.0	373.7
+1		6.0	373.7
S.L		5.4	374.3
1+40 = W.L N-5 Alley			
S.L.		5.4	374.3
+3		5.6	374.1
℄		5.5	374.2

Blk 106.

1+40	379.69		
N.L		5.4	374.3
1+50			
N.L.		4.5	375.2
+3		4.8	374.9
℄ top M.H.		4.88	374.81
S.L		4.9	374.8
1+59 back door Hous		3.2's	✓
floor el.		3.40	376.29
1+60 = E.L. N-5 Alley			
S.L		4.6	375.1
+2		4.3	375.4
℄		4.5	375.2
+2		4.5	375.2
N.L.		4.1	375.6
1+70			
N.L.		4.5	375.2
℄		4.7	375.0
S.L		4.7	375.0
1+80			
S.L.		4.9	374.8
℄		5.2	374.5
N.L		5.2	374.5

E-W Alley

2+00		379.69		
N.L.			5.0	374.7
+2			5.1	374.6
℄			5.3	374.4
+3			4.6	375.1
S.L			4.7	375.0
2+13				
S.L.			5.1	374.6
+3			5.4	374.3
℄			5.3	374.4
N.L			5.3	374.4
2+18				
N.L			5.3	374.4
℄			5.3	374.4
S.L			5.2	374.5
2+18	W end	2 car garage	18.4'	N. with flow
			5.2	374.5
2+37	E end	Same garage	18.4'	N
			5.0	374.7
2+35				
S.L			5.0	374.7
+2			5.2	374.7
℄			5.1	374.6
N.L.			5.1	374.6

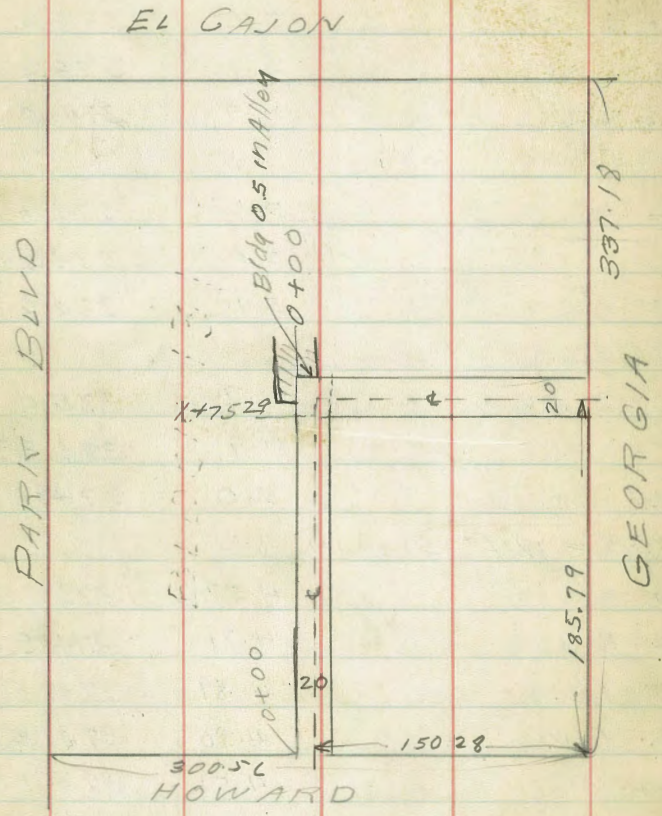
Blk 106

2+55		379.69		
N.L			5.1	374.6
℄			5.1	374.6
S.L			4.9	374.8
2+75				
S.L			5.1	374.6
℄			5.0	374.7
N.L			5.1	374.6
2+90				
N.L.			4.7	375.0
℄			4.9	374.8
S.L			5.0	374.7
3+00 = N.L Oregon				
Scb			4.57	375.12
SL Pav			4.71	374.98
℄ Pav.			4.89	374.80
N.L. Pav.			4.80	374.89
Ncb			4.51	375.18
Wcb line Oregon				
Ncb			4.75	374.94
Gut			5.31	374.38
Gut at ℄			5.30	374.39
Gut			5.30	374.39
Scb			4.82	374.87
T.P.	6.90	382.02	4.57	375.12
B.M. Beginning			4.79	379.23

Ind. c.s.K.

May 11-28
Loudon
Isbel

Cross-section Alley Blk 131 Univ Hts



N & S Alley Blk 131

17

Sta	+	H.I.	—	El.	
B.M	12.37	332.22		319.85	B.P. NW Georgia & Howard
N cb line Howard					
top E cb			2.96	329.26	
top W cb			1.49	330.73	
0+00 = N.L Howard					
top W cb			1.40	330.82	
W.L.			1.3	330.9	
+6			1.8	330.4	
℄			2.2	330.0	
+9			2.4	329.8	
E.L.			2.6	329.6	
top E cb			2.63	329.59	
T.P	8.29	338.47	2.04	330.18	
0+00 Send of conc walk on W.L					
			6.48	331.99	
0+24 N end Sanic wal. 0.2' in alley					
			5.36	333.11	
0+05					
E.L			8.8	329.7	
+3			8.3	330.2	
+6			8.5	330.0	
+9			7.9	330.6	
℄			7.9	330.6	
+3			7.4	331.1	
W.L			6.7	331.8	

Plotted 5-25-28 C.G.H.

N & S Alley

338.47

Sta	+	H.I	−	El.	
0+25					
W.L.				6.0	332.5
+6				6.6	331.9
℄				7.2	331.3
+2				7.1	331.4
+4				7.6	330.9
+6				7.4	331.1
E.L				7.8	330.7
0+44					
E.L.				7.3	331.2
+2				7.3	331.2
+5				6.7	331.8
℄				6.4	332.1
+2				6.4	332.1
+4				6.0	332.5
W.L.				5.7	332.8
0+72				4.6	333.9
+2				5.5	333.0
℄				5.9	332.6
+4				6.3	332.2
+7				7.0	331.5
E.L				7.2	331.3
1+00					
E.L				7.2	331.3
+6				6.0	332.5

338.47 Blk 131

Sta	+	H.I	−	El.
1+00				
℄			5.9	332.6
+2			5.6	332.9
+7			5.3	333.2
W.L			5.0	333.5
1+01 S end 2 car garage 3.0' W Conc floor				
1+21			4.75	333.72
1+21 N end Same garage 3.2' W				
			4.55	333.92
1+07 S end house 0.4 E				
			6.56	331.91
1+12				
E.L			6.6	331.9
+4			6.0	332.5
℄			5.7	332.8
+7			5.2	333.3
W.L.			5.1	333.4
1+31 ℄ Single garage 0.3' in Alley on W Conc floor				
			5.57	332.90
1+35 ℄ Single garage 0.2' W. Wood floor				
			4.42	334.05
1+40				
W.L			4.7	333.8
+7			5.3	333.2
℄			5.4	333.1

N.T.S. Alley Blk 131

			338.47	
1+40				
℄ +6			5.5	333.0
E.L			5.6	332.9
1+45	house	2.8'E	4.20	334.27
1+55				
E.L.			5.3	333.2
+4			5.2	333.3
+6			5.3	333.2
℄			5.1	333.4
+6			4.7	333.8
W.L.			4.3	334.2
1+58	house	2.8'E	4.18	334.29
1+71 ℄	Single garage	7.8'E	Conc. floor	
			5.25	333.22
1+75.28	= S.L	E-W - Alley.		
W.L			4.2	334.3
+4			4.4	334.1
+6			4.9	333.6
℄			4.7	333.8
+2			4.6	333.9
E.L			5.2	333.3

E & W Alley. Blk 131

	338.47	
0+00 = W end E-W Alley		
S.L	4.2	334.3
+2	4.2	334.5
+4	4.6	333.9
+8	4.1	334.4
℄	4.6	333.9
+5 ℄ Single garage on W end	3.60	334.87
+9.5	3.6	334.9
0+10		
N.L	4.5	334.0
+5	4.5	334.0
+8	4.8	333.7
℄	4.8	333.7
+2	4.6	333.9
+6	4.7	333.8
S.L	4.7	333.8
0+12 W end of 2 car garage 0.3'N Conc floor		
~~0+27~~	5.00	333.47
0+27 E end Same garage 0.3'N		
	5.04	333.33
0+20		
S.L.	5.2	333.3
+3	5.5	333.0
℄	5.5	333.0
+5	5.5	333.0
N.L.	4.9	333.6

E & W. Alley.

338.47

0+29	Conc walk 0.2' in alley on N 2' wide		
		5.58	332.89
0+30			
N.L.		5.6	332.9
+7		6.4	332.1
℄		6.2	332.3
+7		6.0	332.5
S.L		6.1	332.4
0+50			
S.L		8.2	330.3
+2		8.2	330.3
℄		8.3	330.2
+5		8.4	330.1
+7		8.1	330.4
N.L.		7.4	331.1
0+61	W. end Conc retain wall 0.6' in alley on N.		
	Top.	9.57	328.90
0+86	E end Same wall 1' in alley		
(8" thick)		10.55	327.92
0+70			
NL.		9.7	328.8
+1		10.2	328.3
℄		10.6	327.9
+7		10.9	327.6
S.L.		11.4	327.1

Blk. 131

338.47

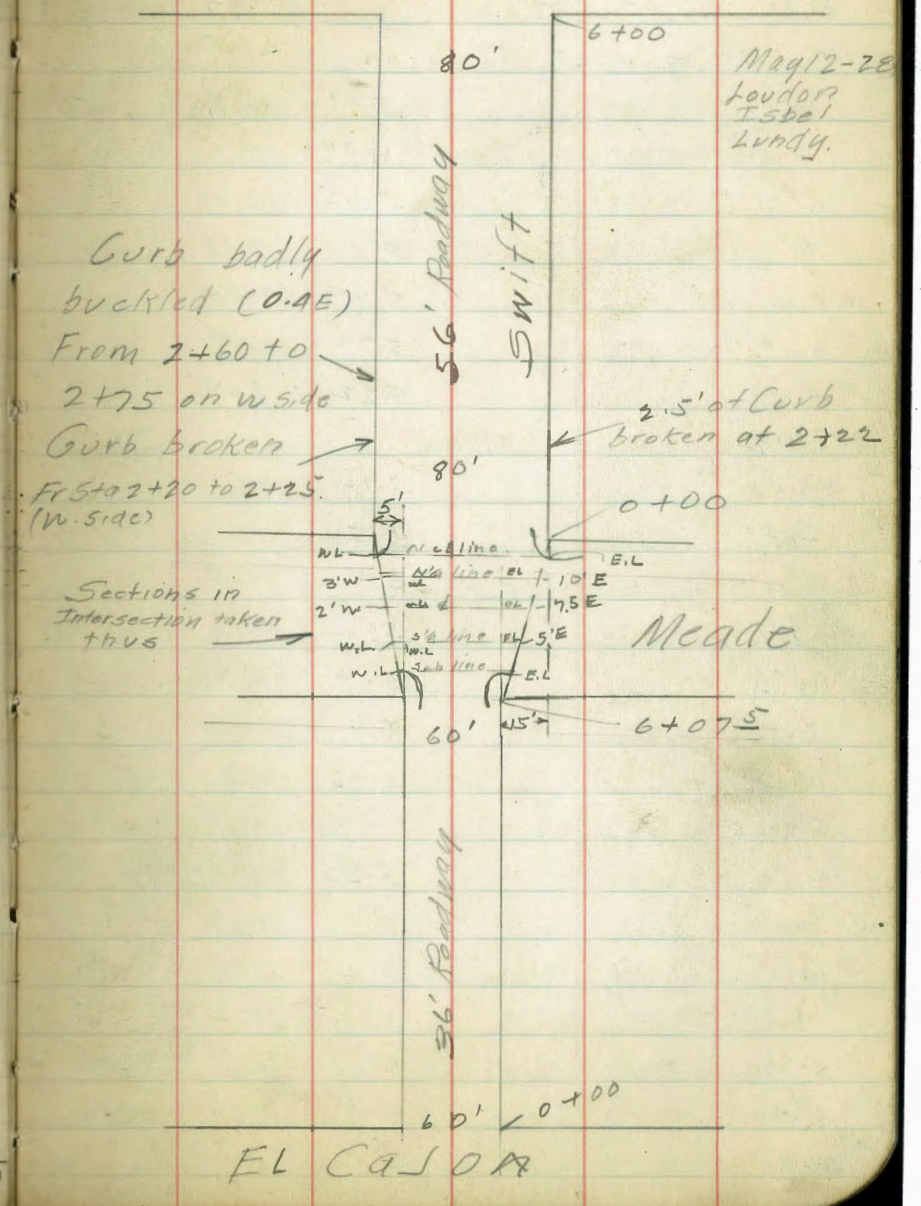
0+70	W end 2 car garage 5.7' S Conc floor			
			12.14	326.33
0+89	E end Same garage 5.6' S			
			12.19	326.28
0+77				
S.L			12.1	326.4
+3			11.7	326.8
℄			11.3	327.2
+4			11.3	327.2
+9			10.8	327.7
N.L			10.5	328.0
T.P.	2.00	328.01	12.46	326.01
1+00				
N.L.			3.4	324.6
~~℄~~+6			3.8	324.2
℄			3.9	324.1
S.L			4.4	323.6
1+15				
S.L.			6.2	321.8
+4			5.9	322.1
℄			5.8	322.2
+3			5.7	322.3
+4			5.9	322.1
NL			5.9	322.1

E+W. Alley. Blk 131

1+30		328.01		
N.L.			7.4	320.6
+6			7.7	320.3
℄			7.7	320.3
S.L			7.6	320.4
1+37				
S.L.			8.2	319.8
℄			8.1	319.9
N.L			8.0	320.0
1+54				
N.L.			8.4	319.6
℄			8.5	319.5
S.L			8.4	319.6
1+60.25 = W.L. Georgia				
top Scb			8.22	319.79
S.L. Pav.			8.69	319.32
℄ Pav.			8.66	319.35
N.L. Pav			8.69	319.32
top Ncb			8.22	319.79
W. cb line Georgia				
top Ncb			8.65	319.36
Gut at N.L.			9.41	318.60
Gut at ℄			9.35	318.66
T.P.	537	324.78	8.59	319.42
Gut at S.L			6.09	318.70
top cb at S.L.			5.36	-4.94 319.85

Ind. c.s.k.

Cross-section Swift From El Cajon to Monroe



X Section Swift

Sta	+	H.I	−	El	
B.M	6.97	386.24		379.27	B.P. SW El Capy & Swift
0+00 = N.L. El Capon					
Wcb			5.49	380.75	
Gut			6.04	380.2	
W¼			5.65	380.59	
℄			5.47	380.77	
E¼			5.44	380.80	
Gut.			5.97	380.47	
Ecb			5.22	381.02	
0+12					
Ecb			5.14	380.10	
Gut			5.5	380.7	
E¼			5.4	380.8	
℄			5.2	381.0	
W¼			5.4	380.8	
Gut.			5.9	380.3	
Wcb			5.43	380.81	
0+25					
Wcb			5.25	380.99	
Gut			5.9	380.3	
W¼			5.2	381.0	
℄			5.0	381.2	
E¼			5.3	380.9	
Gut.			5.5	380.7	
Ecb			5.00	381.24	

0+50				
Ecb			4.80	381.44
Gut.			5.5	380.7
E¼			5.0	381.24
℄			4.7	381.5
W¼			5.0	381.2
Gut			5.7	380.7
Wcb			5.04	381.2
0+75				
Wcb.			4.82	381.42
Gut			5.4	380.8
W¼			4.8	381.4
℄			4.6	381.6
E¼			4.9	381.3
Gut.			5.4	380.8
Ecb			4.55	381.69
1+00				
Ecb			4.22	382.02
Gut			4.8	381.4
¼			4.5	381.7
℄			4.3	381.9
¼			4.7	381.5
Gut.			5.3	380.9
Wcb			4.45	381.79

Swift

1+25	386.24		
Wcb		4.25	381.99
Gut		5.1	381.1
1/4		4.3	381.9
℄		3.9	382.3
1/4		4.1	382.1
Gut		4.5	381.7
Ecb		3.8	382.4
1+50			
Ecb		3.71	382.53
Gut.		4.3	381.9
1/4		3.9	382.3
℄		3.9	382.5
1/4		4.0	382.2
Gut		4.7	381.5
Wcb		3.89	382.35
1+75		-	
Wcb		3.59	382.65
Gut		4.3	381.9
1/4		3.6	382.6
℄		3.4	382.8
1/4		3.7	382.5
Gut		4.1	382.1
Ecb		3.45	382.79

2+00	386.24		
Ecb		3.13	383.11
Gut		3.8	382.4
1/4		3.5	382.7
℄		3.1	383.1
1/4		3.4	382.8
Gut.		4.4	381.8
Wcb		3.35	382.89
2+25			
Wcb		3.23	383.01
Gut		4.0	382.2
1/4		3.3	382.9
℄		2.9	383.3
1/4		3.2	383.0
Gut.		3.6	382.6
Ecb		2.82	383.42
2+50			
Ecb		2.66	383.58
Gut		3.4	382.8
1/4		3.0	383.2
℄		2.8	383.4
1/4		3.1	383.1
Gut		3.8	382.4
Wcb		2.83	383.41

Swift.

386.24

2+75					
Wcb			2.70	383.56	
Gut.			3.6	382.6	
1/4			2.9	383.3	
℄			2.4	383.8	
1/4			2.8	383.4	
Gut.			3.2	383.0	
Ecb			2.36	383.88	
3+00					
Ecb			2.14	384.10	
Gut			2.9	383.3	
1/4			2.5	383.7	
℄			2.1	384.1	
1/4			2.7	383.5	
Gut			3.3	382.9	
Wcb			2.35	383.89	
3+25					
Wcb			2.12	384.12	
Gut			3.0	383.2	
1/4			2.4	383.8	
℄			2.1	384.1	
1/4			2.3	383.9	
Gut.			2.5	383.7	
Ecb			1.87	384.37	

3+50		386.24			
Ecb			1.56	384.68	
Gut			2.3	383.9	
1/4.			2.0	384.2	
℄			1.7	384.5	
1/4			2.1	384.1	
Gut			2.7	383.5	
Wcb			1.92	384.32	
3+75					
Wcb			1.57	384.67	
Gut.			2.3	383.9	
1/4			1.8	384.4	
℄			1.7	384.5	
1/4			1.7	384.5	
Gut			2.1	384.14	
Ecb			1.33	384.91	
T.P.	7.10	392.07	1.27	384.97	
4+00					
Ecb			6.68	385.39	
Gut			7.6	384.5	
1/4			7.2	384.9	
+5			7.0	385.1	
℄			7.0	385.1	
1/4			7.3	384.8	
Gut			7.8	384.3	
Wcb			7.10	384.97	

Swift

392.07

4+25		
Wcb	6.89	385.18
Gut	7.6	384.5
1/4	7.0	385.1
℄	6.6	385.5
+	6.6	385.5
1/4	6.8	385.3
Gut	7.2	384.9
Ecb	6.48	385.59
4+50		
Ecb	6.40	385.67
Gut	7.0	385.1
1/4	6.6	385.5
+5	6.4	385.7
℄	6.4	385.7
1/4	6.8	385.3
Gut	7.3	384.8
Wcb	6.51	385.56
4+75		
Wcb	6.32	385.75
Gut	7.0	385.1
1/4	6.5	385.6
℄	6.0	386.1
+4	6.0	386.1
1/4	6.4	385.7

4+75		
Gut	6.7	385.4
Ecb	6.01	386.06
5+00		
Ecb	5.69	386.38
Gut	6.4	385.7
1/4	6.1	386.0
+3	5.7	386.4
℄	5.8	386.3
1/4	6.3	385.8
Gut	6.9	385.2
Wcb	6.02	386.05
5+25		
Wcb	5.82	386.25
Gut	6.7	385.4
1/4	6.1	386.0
℄	5.4	386.7
+4	5.5	386.6
1/4	5.8	386.3
Gut	6.0	386.1
Ecb	5.37	386.70

Swift

392.07

5+50		
Ecb	5.22	386.85
Gut	5.9	386.2
1/4	5.6	386.5
℄	5.2	386.9
1/4	5.8	386.3
Gut	6.5	385.6
Wcb	5.65	386.42
5+75		
Wcb	5.31	386.76
Gut	6.1	386.0
1/4	5.5	386.6
℄	5.0	387.1
1/4	5.3	386.8
Gut	5.7	386.4
Ecb	4.82	387.25
6+00		
Ecb	4.52	387.51
Gut	5.2	386.9
1/4	4.8	387.3
℄	4.6	387.5
+5	4.7	387.4
1/4	5.1	387.0
Gut	5.8	386.3
Wcb	5.02	387.05

392.07

6+075 = S.L Meade

Wcb	4.96	387.11
Gut	5.5	386.6
1/4	4.9	387.2
℄	4.5	387.6
1/4	4.6	387.5
Gut	4.7	387.4
Ecb	4.40	387.67

Intersection Swift & Meade

Scb line Meade

E.L top cb	4.47	387.60
E.L Gut	5.1	387.0
Ecb	4.5	387.6
E 1/4	4.4	387.7
℄	4.4	387.7
W 1/4	4.5	387.6
Wcb	4.8	387.3
W.L Gut.	5.2	386.9
W.L top cb.	4.95	387.12
S 1/4 line Meade		
W.L	4.9	387.2
Wcb	4.8	387.3
W 1/4	4.6	387.5
℄	4.5	387.6
E 1/4	4.5	387.6

Swift.

392.07

S'¼ line Meade		
Ecb	4.6	387.5
E.L.	4.6	387.5
5' E	4.6	387.5
℄ Meade		
7.5 E.	4.5	387.6
E.L.	4.6	387.5
Ecb	4.5	387.6
E'¼	4.4	387.7
℄ M.H.	4.48	387.59
W'¼	4.6	387.5
Wcb	4.6	387.5
WL	4.7	387.4
2' W	4.7	387.4
N ¼ line Meade		
3' W	4.8	387.3
W.L.	4.8	387.3
Wcb	4.7	387.4
W'¼	4.6	387.5
℄	4.4	387.7
E'¼	4.4	387.7
Ecb	4.5	387.6
E.L	4.5	387.6
10' E	4.6	387.5

392.07

N cb line Meade		
E.L	4.29	387.78
Gut E.L	4.9	387.2
Ecb	4.9	387.2
E'¼	4.5	387.6
℄	4.4	387.7
W'¼	4.7	387.4
Wcb	5.2	386.9
W.L. Gut	5.6	386.5
W.L. to cb	4.85	387.22
0+00 = N.L Meade		
Wcb	4.83	387.24
Gut	5.5	386.6
¼	4.7	387.4
℄	4.4	387.7
+7	4.2	387.9
¼	4.5	387.6
+11	4.6	387.5
Gut	4.8	387.3
Ecb	4.21	387.86
0+25		
Ecb	4.27	387.80
Gut	4.8	387.3
¼	4.5	387.6
45	4.3	387.8

Swift

392.07

0+25		
℄	4.4	387.7
1/4	4.7	387.4
Gut	5.3	386.8
Wcb	4.78	387.29
0+50		
Wcb	4.80	387.27
Gut	5.4	386.7
1/4	4.6	387.5
℄	4.2	387.9
+10	4.0	388.1
1/4	4.3	387.8
Gut	4.6	387.5
Ecb	4.15	387.92
0+75		
Ecb	4.24	387.83
Gut	4.8	387.3
1/4	4.1	388.0
+3	3.9	388.2
℄	4.1	388.0
1/4	4.6	387.5
Gut	5.4	386.7
Wcb	4.86	387.21

392.07

1+00		
Wcb	4.63	387.44
Gut	5.3	386.8
1/4	4.5	387.6
+8	4.6	387.5
℄	4.1	388.0
+8	3.9	388.2
1/4	4.1	388.0
Gut.	4.8	387.3
Ecb	4.08	387.99
1+25		
Ecb	4.09	387.98
Gut	4.7	387.4
1/4	4.1	388.0
+7	4.0	388.1
℄	4.2	387.9
+9	4.3	387.8
1/4	4.6	387.5
Gut	5.3	386.8
Wcb	4.62	387.45
1+50		
Wcb	4.46	387.61
Gut	5.1	387.0
1/4	4.4	387.7
+9	4.0	388.1

Swift

392.07

1+50			
℄		4.0	388.1
+8		3.6	388.5
¼		4.0	388.1
Gut		4.6	387.5
Ecb		4.05	388.02
1+75			
Ecb		3.95	388.12
Gut		4.7	387.4
¼		4.1	388.0
+6		3.7	388.4
℄		3.9	388.2
¼		4.3	387.8
Gut		5.0	387.1
Wcb		4.38	387.69
2+00			
Wcb		4.28	387.79
Gut		4.9	387.2
¼		4.2	387.9
℄		3.8	388.3
+7		3.6	388.5
¼		3.9	388.2
Gut		4.4	387.7
Ecb		3.70	388.37

2+25			
Ecb		3.69	388.38
Gut.		4.4	387.7
¼		3.7	388.4
+5		3.3	388.8
℄		3.8	388.3
¼		4.2	387.9
Gut.	2.5' of Curb broken out at Sta. 2+22	4.9	387.2
Wcb		4.11	387.96
2+50	E side.		
Wcb		4.06	388.01
Gut		4.7	387.4
¼		4.0	388.1
℄		3.7	388.4
+8		3.5	388.6
¼		3.7	388.4
Gut.		4.3	387.8
Ecb		3.65	388.42
2+75			
Ecb		3.65	388.42
Gut.		4.3	387.8
¼		3.7	388.4
+6		3.4	388.7
℄		3.6	388.5
¼		4.0	388.1
+8		4.4	387.7

2+75		392.07		
W Gut.			4.2	387.5
Wcb			3.95	388.12
3+00				
Wcb			3.90	388.17
Gut.			4.5	387.6
1/4			3.9	388.2
℄			3.6	388.5
+8			3.2	388.9
1/4			3.6	388.5
Gut.			4.2	387.9
Ecb			3.56	388.51
3+25				
Ecb			3.43	388.64
Gut.			4.1	388.0
1/4			3.6	388.5
+6			3.3	388.8
℄			3.5	388.6
1/4			4.0	388.1
Gut			4.7	387.7
Wcb	6.19	394.48	3.78	388.29
3+50				
Wcb			6.17	388.31
Gut			6.9	387.6
1/4			6.3	388.2

		394.48		
3+50				
℄			6.0	388.5
+5			5.8	388.7
+8			5.6	388.9
1/4			5.9	388.6
Gut			6.3	388.2
Ecb			5.86	388.62
3+75				
Ecb			5.76	388.72
Gut			6.3	388.2
1/4			5.9	388.6
+7			5.6	388.9
℄			5.9	388.6
1/4			6.1	388.4
Gut			6.7	387.8
Wcb			6.14	388.34
4+00				
Wcb			6.01	388.47
Gut			6.6	387.9
1/4			6.1	388.4
℄			5.9	388.6
+7			5.6	388.9
1/4			5.9	388.6
Gut			6.3	388.2
Ecb			5.67	388.81

Swift

394.48

4+25		
Ecb	5.64	388.84
Gut	6.2	388.3
¼	5.8	388.7
+7	5.5	389.0
℄	5.6	388.9
¼	6.1	388.4
Gut.	6.6	387.9
Wcb	5.97	389.51
4+50		
Wcb	5.89	388.59
Gut	6.5	388.00
¼	6.0	388.5
℄	5.5	389.0
+7	5.3	389.2
¼	5.7	388.8
Gut	6.1	388.4
Ecb	5.51	388.97
4+75		
Ecb	5.43	389.05
Gut.	6.1	388.4
¼	5.7	388.8
+7	5.2	389.3
℄	5.5	389.0
¼	5.9	388.6

4+95		
WGut	6.4	388.1
Wcb	5.81	388.67
5+00		
Wcb	5.70	388.78
Gut.	6.4	388.1
¼	5.8	388.7
℄	5.5	389.0
+8	5.4	389.1
¼	5.6	388.9
Gut	6.0	388.5
Ecb	5.40	389.08
5+25		
Ecb	5.31	389.17
Gut	5.9	388.6
¼	5.5	389.0
+7	5.2	389.3
℄	5.5	389.0
+8	5.5	389.0
¼	5.7	388.8
Gut	6.2	388.3
Wcb	5.57	388.91

Swift

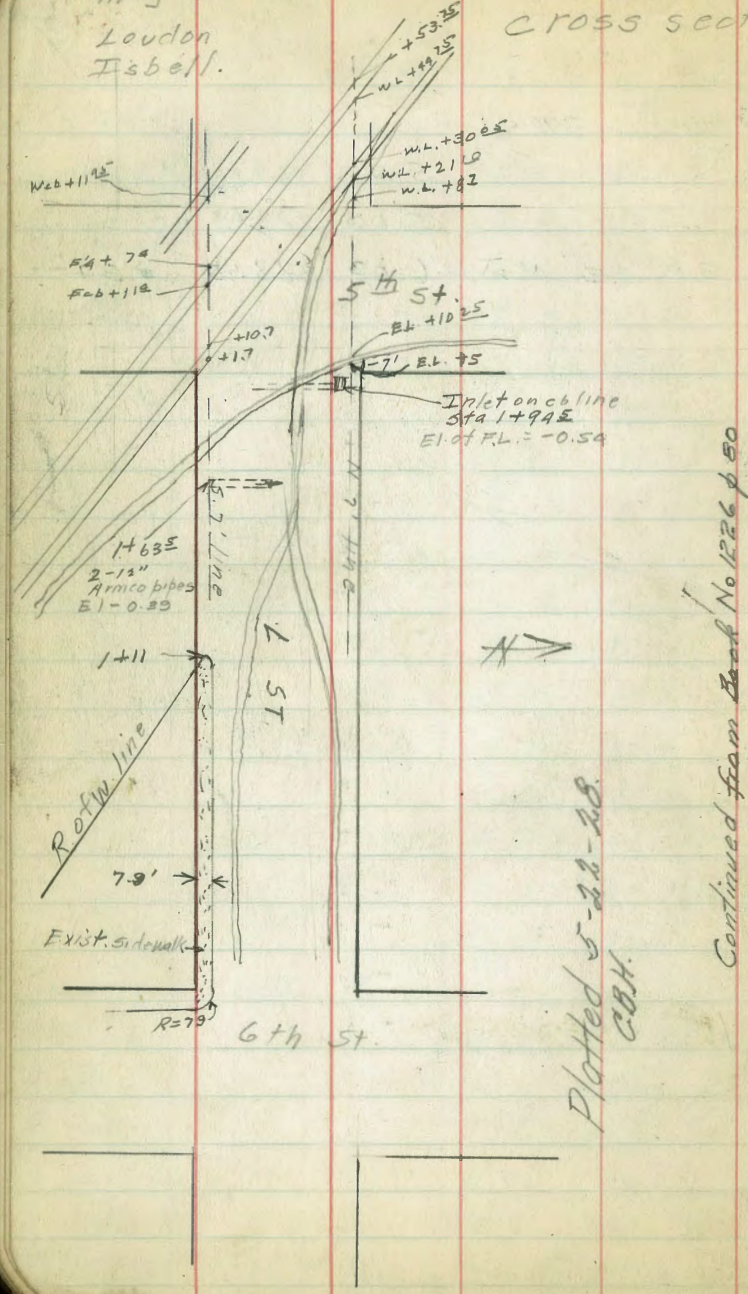
394.48

5+50			
Wcb		5.53	388.95
Gut		6.0	388.1
1/4		5.6	388.9
℄		5.3	389.2
+8		5.1	389.4
1/4		5.4	389.1
Gut		5.8	388.7
Ecb		5.23	389.25
5+75			
Ecb		5.13	389.35
Gut		5.8	388.7
1/4		5.3	389.2
+7		5.0	389.5
℄		5.3	389.2
1/4		5.5	389.0
Gut		6.0	388.5
Wcb		5.47	389.01
6+00 = B.L	Monroe		
Wcb		5.27	389.21
Gut		5.5	389.0
1/4		5.4	389.1
℄		5.0	389.5
+11		4.9	389.6
1/4		5.1	389.4

6+00		394.48			
E Gut.			5.4	389.1	
E cb			5.00	389.48	
B.M.	B.P. S.E.	Monroe	6.03	388.45	(388.36) ≈ 34th

Ind. C.S.R.
May 16-28
Loudon
Isbell.

cross section



Plotted 5-22-28
CBH.

Continued from Book No 1226 p 50

L St Continued From Book 1226 P 80

33

Distances to tracks from south 7' line in Block From 6th to 5th

0+00 = W. L 6th

Sta	S rail S. track	S rail N. track		S rail S. track	S rail N track
0-66	12.48	48.74	1+70	31.62 Toe switch	32.00
0-53	12.48	48.70	1+80	33.10	
0-40	12.48	48.70	1+90	34.46	
0-27	12.50	48.61	2+00	35.17	
0-14	12.63	48.19			
0+00	13.10	47.33			
0+10	13.61	46.34			
0+20	14.31	45.18			
0+30	15.19	43.62			
0+40	16.40	41.91			
0+50	17.77	40.14			
0+60	19.25	38.35			
0+70	20.85	36.48			
0+80	22.36	35.06			
0+90	23.73	33.83			
1+00	24.91	32.94			
1+10	25.99	32.26			
1+20	27.18	Frog. 31.75			
1+30	28.04	31.33			
1+40	29.13	31.19			
1+50	30.07	31.28			
1+60	30.83	31.66			

Intersection 5th & L

Distanes From North 7' line of "L" st. to track in intersection.

(Measured ⊥ to line)

	to N. rail.
Ecb line 5th	23.50
E 1/4 line 5th	20.90
℄ 5th	19.50
W 1/4 line	13.64
Wcb line	9.22
W L	3.65
8.70 W.	0.00

Distanes from East line 5th st. to track in intersection 0+00 = N.L "L" st.

0+00	7.0 W
0+07	5.0 W
0+19.65	0.0
0+30	4.80 E
0+40	10.70
0+50	15.30
0+60	20.70
0+70	27.50
0+80 = S.L. "L" st.	35.80

Gross-section L st 6th to 5th

Cont. From Book 1226 P 80

34

top S.W 1+00 scb +6

Sta	+	H.I.	—	El
T.P	5.20	7.43	.	2.23
1+50 ✓				
S.L			5.7	1.7
+8			5.9	1.5
Scb			5.8	1.6
+10			5.6	1.8
S 1/4			5.7	1.7
+7			5.5	1.9
Srail Str.			5.57	1.86
Srail Ntr			5.57	
℄			5.6	1.8
Nrail str			5.52	
Nrail Ntr.			5.52	1.91
℄ +45			5.6	1.8
+11			5.3	2.1
N 1/4			5.4	2.0
+5			5.5	1.9
Ncb			5.3	2.1
+7			5.3	2.1
N.L			5.2	2.2
1+70 —				
N.L			5.0	2.4
+12			5.3	2.1
Ncb			5.4	2.0
+10			5.7	1.7

L St.

1+70	7.43		
N ¼		5.6	1.8
N rail N tr.		5.58	1.85
N rail S tr.		5.58	
℄		5.50	1.93
S rail N tr		5.60	
S rail S tr.		5.60	1.83
+9		5.9	1.5
S ¼		5.7	1.7
+9		5.7	1.7
S cb		5.5	1.9
+7.2 E rail N-S tr.		5.50	1.93
+10		5.4	2.0
S.L		5.9	1.5
F.L Culvert at Sta. 1+63.5 (S. end)		7.82	-0.39
1+90			
S.L.		5.8	1.6
+3		5.8	1.6
+5		5.5	1.9
S cb		5.5	1.9
+9		5.5	1.9
S ¼		5.6	1.8
+0.7 W. rail N-S tr.		5.45	1.98
+11.5 E rail N-S tr.		5.51	1.92
℄		5.6	1.8

L St.

1+90	7.43		
S rail E-W tr		5.57	1.86
N rail E-W tr		5.61	1.82
℄+10		5.5	1.9
N ¼		5.6	1.8
+7		5.7	1.7
+12		6.1	1.3
N cb		5.9	1.5
+4		5.2	2.2
+9		5.3	2.1
N.L		5.1	2.3
2+00.13 = E.L. 5th			
N.L		5.1	2.3
+8		5.2	2.2
+10		5.1	2.3
N cb		5.4	2.0
+4		5.7	1.7
+5.65 E rail N-S tr		5.52	1.91
N ¼		5.6	1.8
+5.1 W rail N-S tr.		5.58	1.85
N rail E-W tr.		5.60	1.83
S rail E-W tr.		5.54	1.89
℄		5.6	1.8
S ¼		5.4	2.0
S cb		5.5	1.9

L St.

2+00 13	7.43		
Scb+8 3	N.E. rail N.w tr.	5.51	1.92
S.L	S.w rail N.w tr.	5.42	2.01

Intersection 5th & L

E cb line 5th

S.L.		5.6	1.8
+9	s.w. rail N.w.tr.	5.43	2.00
Scb		5.5	1.9
+0.6	N.E. rail N.w tr	5.48	1.95
S¼		5.4	2.0
℄		5.4	2.0
+4.5	S rail E-w tr.	5.51	1.92
+10.9	N rail E-w tr	5.51	
N¼		5.6	1.8
+6		5.5	1.9
Ncb		5.4	2.0
N.L		5.2	2.2

E¼ line 5th

N.L.		5.5	1.9
+11		5.8	1.6
Ncb		5.7	1.7
+9		5.4	2.0
N¼		5.6	1.8
+0.9	N rail E-w tr	5.51	1.92
+5.9	S rail E-w tr.	5.43	2.00

L St

E¼ line 5th 7.43

℄		5.4	2.0
S¼		5.5	1.9
+2.8	N.E rail N.w tr	5.50	1.93
+9.3	S.w rail N.w. tr.	5.47	1.96
Scb		5.5	1.9
+6	N.E rail N.w tr	5.53	1.90
+12	S.w rail N.w tr.	5.58	1.85
S.L		5.6	1.8

℄ 5th

S.L		5.9	1.5
+11	S.w rail N.w.tr.	5.58	1.85
Scb		5.6	1.8
+2.5	N.E rail N.w.tr	5.56	1.87
+12 4	S.w rail N.w tr	5.50	1.93
S¼		5.5	1.9
+5.3	N.E. rail N.w. tr	5.52	1.91
℄		5.4	2.0
+10 3	S rail E-w tr	5.42	2.01
N¼		5.5	1.9
+2 5	N rail E-w tr	5.46	1.97
Ncb		5.7	1.7
+8		5.5	1.9
N.L		5.4	2.0

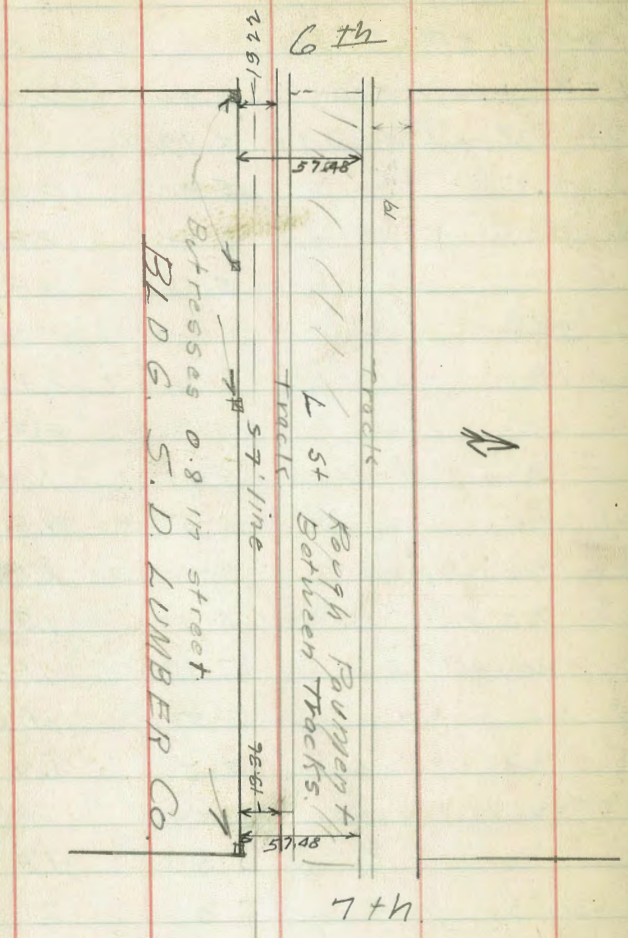
W ¼ line 5th 7.43			
N.L		5.5	1.9
N cb		5.3	2.1
+6.6	N rail E-W tr	5.44	1.99
+11.2	S rail E-W tr	5.38	2.05
N ¼		5.4	2.0
+7.8	N.E. rail N.W. tr	5.55	1.88
℄		5.6	1.8
+4.8	S.W rail N.W tr	5.50	1.93
S ¼		5.5	1.9
+1.5	N.E rail N.W. tr	5.55	1.88
+7.3	S.W rail N.W. tr	5.56	1.87
S cb		5.7	1.7
S.L		5.8	1.6
W cb line 5th			
S.L.		6.2	1.2
+5		5.6	1.8
S cb		5.5	1.9
S ¼		5.5	1.9
+1.0	S.W. rail N.W tr.	5.57	1.86
+6.2	N.E. rail N.W. tr	5.57	
℄		5.4	2.0
+4	S.W rail N.W. tr.	5.53	1.90
+9.8	N.E. rail N.W. tr	5.49	1.94
N ¼		5.2	2.2

W cb line 5th 7.43			
N ¼ +5.4	S rail E-W tr	5.40	2.03
+10.6	N rail E-W tr.	5.42	
N cb		5.4	2.0
+12		5.2	2.2
N.L.		5.6	1.8
W.L 5th			
N L		5.2	2.2
+6		5.1	2.3
+10.2	N rail E-W tr	5.45	1.98
N cb		5.5	1.9
+2.0	S rail E-W tr	5.40	2.03
+6.8	N.E. rail N.W. tr	5.50	1.93
N ¼	S.W. rail N.W. tr	5.49	1.94
+10	N.E rail N.W. tr	5.53	1.90
℄		5.5	1.9
+3.6	S.W. rail N.W tr	5.54	1.89
S ¼		5.5	1.9
+5		5.3	2.1
S cb		5.6	1.8
+5	N E rail N.W. tr	5.81	1.62
+11.6	S.W. rail N.W tr	5.87	1.56
S.L		6.2	1.2
F.L. Inlet	(at 1+94.5 0.8 S of N cb line 2' × 2.5')	7.97	-0.54
top Inlet		6.23	1.20

5/16/28
Loudon
Isbell.

Ind. C.S.K.

cross-section 'L' St.



From 7th to 6th

Sta	J	H.I	—	E.L.
T.P	0.86	9.69		8.83
0+00 = W.L. 7th				
S.L			5.0	4.7
Scb			5.2	4.5
+5¼ Srail Str.			5.14	4.55
+10¾ Nrail Str			5.08	4.61
S¼			5.00	4.69
℄			4.74	4.95
N¼			4.72	4.97
+2.5	Srail	N tr.	4.65	5.04
+7¼	Nrail	N tr.	4.67	5.02
+10			4.7	5.0
Ncb			4.2	5.5
+4			3.9	5.8
N.L.			3.7	6.0
T.P.	4.54	8.84	5.39	4.30
0+50				
N.L			3.3	5.5
+7			3.5	5.3
Ncb			4.2	4.6
+5.3	Nrail	N tr	4.79	4.05
+10.2	Srail	N tr.	4.73	4.11
N¼			4.71	4.13
℄			4.51	4.33
S¼			4.65	4.19

		L St		
		8.84		
0+50				
5¼+2.5	N rail	S tr	4.72	4.12
+ 7.4	S rail	S tr.	4.74	4.10
S cb			4.7	4.1
S.L			4.7	4.1
1+00				
S.L			5.3	3.5
S cb			5.1	3.7
+5.5	S rail	S tr.	5.28	3.56
+10.4	N rail	S tr.	5.23	3.61
S¼			5.19	3.65
℄			5.05	3.79
N¼			5.27	3.57
+2.6	S rail	N tr.	5.34	3.50
+7.5	N rail	N tr.	5.33	3.51
N cb			5.2	3.6
N.L			4.9	3.9
1+50				
N.L.			5.0	3.8
N cb			5.5	3.3
+5.3	N rail	N tr	5.81	3.03
+10.2	S rail	N tr.	5.91	2.93
N¼			5.76	3.08
℄			5.55	3.29
S cb			5.9	2.9

		L St.			
1+50		8.84			
S.L			5.6	3.2	
T.P	5.08	8.14	5.79	3.06	
S¼			5.00	3.84	
1+99.96	= E.L. 6th				
S.L top walk			4.87	3.27	
+0.8	top cb		4.93	3.21	
+0.8	Ground		5.3	2.8	
S cb			5.4	2.7	
+5.3	S rail	S tr.	5.66	2.48	
+10.2	N rail	S tr.	5.59	2.55	
S¼			5.45	2.69	
℄			5.19	2.95	
N¼			5.6	2.5	
+2.6	S rail	N tr	5.68	2.46	
+7.5	N rail	N tr.	5.71	2.43	
N cb			5.5	2.6	
+3			5.3	2.8	
N.L			5.3	2.8	
N.L. top side walk			4.99	3.15	
T.P	8.07	12.23	3.98	4.16	
B.M S.E. K & 6th			5.30	6.93	(6.98)

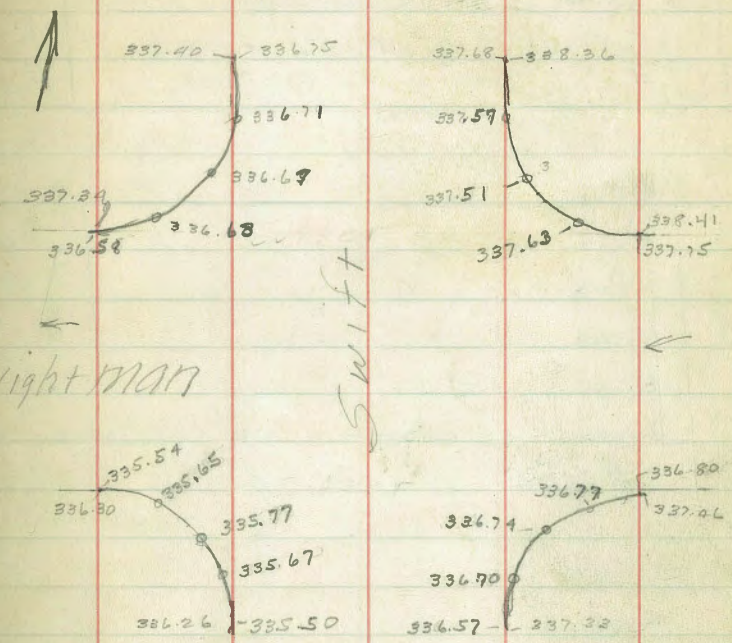
L st.

Distances from ℄ of L st to tracks in Block from 8th

0 +00 = W.L 8th
2 +27 in Int. 7th

	to to rail N tr.	7th to N rail S. track	to N rail of Turnout toe
0 +00	10.90 N	14.40 S	11.40 S
+20	11.39 N	11.34 S	10.80 S
+40	12.76 N	11.31 S	9.43 S
+60	14.35 N	11.40 S	7.40 S
+80	15.24 N	11.78 S	4.25 S
1 +00	15.52 N	12.58 S	0.66 N
+20	15.50 N	13.92 S	6.35 N
+40	15.42 N	15.08 S	11.65 N
+60	15.42 N	15.50 S	15.07 N
+80	15.48 N	15.50 S	17.83 N
2 +00	15.42 N	15.50 S	19.48 N
= EL. 7th 2 +27	15.40 N	15.48 S	toe turnout

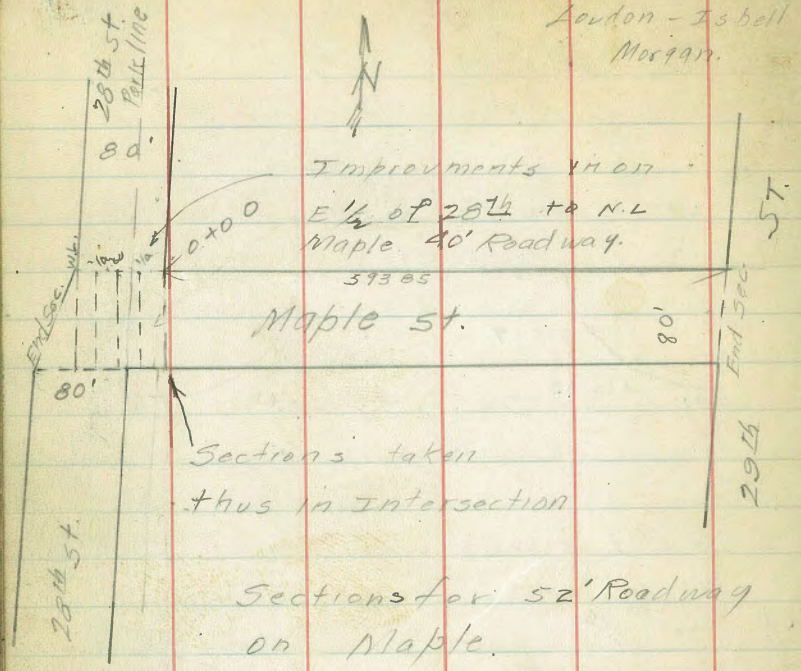
Loudon
Isbell
Morgan



Grows feet in Intersection
Swift & Wightman.
May-17-28

Ind. C.S.K.

May 18-28
Loudon - Isbell
Morgan.



Sections for 52' Roadway
on Maple.

Cross-section Maple St From 28 to 29th

41

Sta	+	H.I	−	E.I	
				298.963	BR NW.
B.M	1.66	291.62		289.96	29th & Nut mag.
T.P	0.27	281.75	10.14	281.48	
T.P.	0.12	269.02	12.85	268.90	Large Bolt
BM	0.26	256.47	12.81	256.21	NE. Maple & 28th
End Section					
N.L			3.5	253.0	
Ncb			5.9	250.6	
N¼			8.5	248.0	
℄			10.7	245.8	
S¼			12.7	243.8	
Scb			14.9	241.6	
S.L			17.1	239.4	
WL 28th			~~16~~		
S.L			16.2	240.3	
Scb			12.6	243.9	
S¼			11.5	245.0	
℄			9.8	246.7	
N¼			7.7	248.8	
Ncb			5.6	250.9	
N.L			3.5	253.0	
W cb line 28th					
N.L			2.4	254.1	
Ncb			4.7	251.8	
N¼			6.7	249.8	
℄			8.7	247.8	

Plotted 5-23-28
C.B.H.

Note = Elevations are 9' higher % Transposition on B.M.

Maple.

	256.47	
W cb line 28th		
S 1/4	11.0	245.5
S cb	13.6	242.9
S.L	16.1	240.4
W 1/4 line 28th		
S.L	15.4	241.1
S cb	13.4	243.1
S 1/4	10.5	246.0
℄	8.0	248.5
+5	7.0	249.5
N 1/4	6.1	250.4
+8	4.1	252.4
+11	2.8	253.7
N cb	2.4	254.1
N.L	1.5	255.0
℄ 28th		
N.L on Pav.	0.74	255.73
Ground at N.L	1.2	255.3
N c	2.2	254.3
+5	2.6	253.9
+12	5.6	250.9
N 1/4	5.6	250.9
+6	6.5	250.0
℄	7.8	248.7
S 1/4	9.0	247.5

	256.47	
℄ 28th		
S 1/4 + 7	12.8	243.7
S cb	13.3	243.2
S.L	15.4	241.1
E 1/4 line 28th		
S.L.	15.5	241.0
S cb	13.2	243.3
S 1/4	10.3	246.2
℄	7.2	249.3
+11	5.3	251.2
N 1/4	4.6	251.9
+6	2.8	253.7
N cb	2.3	254.2
N.L	1.0	255.5
N.L on Pav.	0.83	255.64
E cb line 28th		
N.L on Pav	0.93	255.54
N.L top cb	0.42	256.05
N.L.	0.8	255.7
N cb	2.3	254.2
+9	2.3	254.2
N 1/4	4.0	252.5
+5	7.3	249.2
℄	9.1	247.4
S 1/4	12.0	244.5

See Note for E1. 9' higher page 41.

Maple.

256.47

Ecb line 28			
Scb	14.1	242.4	
S.L.	15.9	240.6	
G'E of Ecb line 28th			
S.L	14.4	242.1	
+8	13.5	243.0	
Scb	11.5	245.0	
S'/4	9.1	247.4	
+10	6.1	250.4	
N'/4	4.6	251.9	
+4	3.0	253.5	
Ncb	2.4	254.1	
N.L	0.6	255.9	
E.L. 28th = 0+00			
N.L	0.3	256.2	
N'ab	2.7	253.8	
+11	3.5	253.0	
N'/4	4.2	252.3	
+3	6.0	250.5	
℄	7.1	249.4	
S'/4	7.9	248.6	
+4	8.1	248.4	
Scb	11.7	244.8	
+8	14.0	242.5	
S.L	13.1	243.4	

0+04		256.47			
S.L.			14.9	241.6	
+7			14.6	241.9	
S'ab			11.8	244.7	
+10			11.7	244.8	
S'/4			7.6	248.9	
℄			6.8	249.7	
+7			6.1	250.4	
N'/4			4.1	252.4	
+2			3.7	252.8	
+12			2.9	253.6	
Ncb.			2.6	253.9	
N.L			0.2	256.3	
T.P	2.78	258.99	0.26	256.21	
0+14					
N.L			1.0	258.0	
Ncb			4.9	254.1	
+3			5.6	253.4	
+4			6.6	252.4	
N'/4			7.1	251.9	
+3			7.3	251.7	
+6			8.5	250.5	
℄			9.4	249.6	
S'/4			10.2	248.8	
Scb			14.4	244.6	
+4			15.6	243.4	

Elev. 9' higher

See Note page 41.

Maple 12.1 12.8

No S. line given

	258.99	
0+14	18.0	241.0
20 S	20.7	238.3
0+40		
20' S	21.4	237.6
10' S	20.3	238.7
S.L	20.3	238.7
5' cb	16.2	242.8
+3	15.0	244.0
S'/4	13.3	245.7
℄	10.2	248.8
+7	8.9	250.1
N'/4	8.6	250.4
+6	8.2	250.8
+7	6.9	252.1
N cb	5.5	253.5
+10	2.7	256.3
N.L	1.8	257.2
0+66		
N.L	3.2	255.8
N cb	5.5	253.5
+9	9.5	249.5
N'/4	9.8	249.2
+7	10.1	248.9
℄	11.6	247.4
+12	14.0	245.0

12.1

	258.99	259.00
0+66		
S'/4	14.3	244.7
S cb	14.7	244.3
+3	19.0	240.0
S.L	21.7	237.3
11' S	22.4	236.6
15' S	21.2	237.8
20' S	21.3	237.7
1+00		
30' S	28.3	230.7
20' S	26.6	232.4
10' S	25.1	233.9
S.L	22.6	236.4
S' cb	19.6	239.4
+6	17.9	241.1
S'/4	15.6	243.4
℄	13.6	245.4
+7	11.9	247.1
N'/4	11.5	247.5
+6	11.0	248.0
N cb	7.4	251.6
+8	4.8	254.2
N.L	3.5	255.5
15' N	1.0	258.0

See Note Page 41. ET. 9' higher

Maple

		23	22.1	
		12	10.7	
			258.99	
1+25				
15' N			1.6	257.4
N.L			5.1	253.9
N cb			9.4	249.6
+4			12.0	247.0
N 1/4			13.0	246.0
+6			13.4	245.6
℄			16.3	242.7
+6			17.9	241.1
+9			18.6	240.4
+12			18.6	240.4
S 1/4			19.3	239.7
+6			20.8	238.2
S cb			22.3	236.7
S.L			26.5	232.5
20' S			29.0	230.0
1+50				
30' S			35.6	223.4
20' S			33.6	225.4
15' S			31.7	227.3
S.L.			28.8	230.2
S cb			26.0	233.0
+3			25.5	233.5
S 1/4			20.0	239.0
+9			18.1	240.9

1+50		258.99		
℄			15.8	243.2
+8			14.2	244.8
N 1/4			14.2	244.8
+11			13.2	245.8
N cb			12.9	246.1
N.L			7.8	251.2
15' N			3.4	255.6
T.P.	0.37	246.47	12.89	246.10
1+75				
15' N			+3.6	250.1
N.L			0.9	245.6
+11			4.0	242.5
N cb			3.6	242.9
+6			3.3	243.2
N 1/4			3.7	242.8
+3			4.8	241.7
+11			9.8	236.7
℄			10.7	235.8
S 1/4			13.8	232.7
S cb			17.0	229.5
S.L			20.7	225.8
30' S			27.8	219.7

See Note Page 41. El. 9' higher

Maple

1+86		246.47		
30' S			30.0	216.5
S.L			22.5	224.0
Scb			18.2	228.3
S'/4			15.7	230.8
℄			12.3	234.2
N'/4			9.8	236.7
+6			7.5	239.0
Ncb			5.8	240.7
N.L			3.0	243.5
15' N			+1.1	247.6
2+00				
15' N			3.4	243.1
N.L			5.6	240.9
Ncb			8.7	237.8
N'/4			11.6	234.9
+7			14.0	232.5
℄			15.1	231.4
+5			16.1	230.4
S'/4			18.4	228.1
Scb			21.5	225.0
S.L			25.1	221.4
30' S			33.1	213.4

2+16		246.47		
30' S			36.3	210.2
S.L			29.3	217.2
Scb			25.7	220.8
+8			23.7	222.8
S'/4			22.1	224.4
℄			18.8	227.7
+2			18.4	228.1
+8			17.6	228.9
N'/4			15.6	230.9
Ncb			12.6	233.9
N.L			8.9	237.6
15' N			6.0	240.5
T.P.	0.11	234.07	12.51	233.96
2+40				
15' N			1.7	232.4
N.L			2.8	231.3
Ncb			5.5	228.6
+11			8.2	225.9
N'/4			8.9	225.2
+9			12.4	221.7
℄			13.2	220.9
+7			14.1	220.0
+11			13.1	221.0
S'/4			14.0	220.1

See Note page 41 Ft. 9' higher

10.1 Maple.

2+40		234.07		
5'S + 2			15.4	218.7
Scb			17.3	216.8
S.L			20.1	214.0
13'S			23.1	211.0
30'S			27.1	207.0
2+53				
30'S			28.4	205.7
8'S			24.7	199.4
S.L			23.5	210.6
Scb			22.6	211.5
S'/4			20.8	213.3
+8			20.3	213.8
℄			19.1	215.0
+5			17.8	216.3
+9			16.1	218.0
N'/4			16.0	218.1
+8			12.8	221.3
Ncb			11.6	222.5
+9			9.8	224.3
N.L			9.1	225.0
8'N			9.9	224.2
15'N			10.4	223.7
T.P.	0.56	221.76	12.87	221.20

12.7
1.0.5
23.5

2+63		221.76		
15'N			3.3	218.4
6'N			4.9	216.8
N.L			4.3	217.4
+10			4.1	217.7
Ncb			4.9	216.9
+8			6.3	215.5
+11			7.3	214.5
N'/4			8.2	213.6
+7			11.6	210.2
+12			11.9	209.9
℄			13.7	208.1
+6			12.5	209.3
+9			15.1	206.7
S'/4			16.0	205.8
+3			17.0	204.8
+7			18.3	203.5
Scb			16.0	205.8
S.L			14.8	207.0
8'S			15.5	205.3
30'S			17.7	204.1
2+73				
30'S			21.4	200.4
23'S			21.5	200.3
S.L			23.5	197.3

Ft. 9' higher

20.8
11
9.0

14.7 Maple

2+73		221.76		
S.L. +5			24.0	197.8
Scb			25.6	196.2
+12			22.3	199.5
S¼			22.9	198.9
+3			23.4	197.4
+6			20.9	200.9
℄			18.2	203.6
+10			14.6	207.2
N¼			13.0	208.8
+3			10.9	210.9
+9			10.4	211.4
Ncb			11.8	210.0
+3			11.7	210.1
+4			11.0	210.8
N.L			10.6	211.2
15'N.			8.9	212.9
2+82				
15'N			12.8	209.0
N.L			15.6	206.2
T.P.	3.35	213.90	11.21	210.55
Ncb			8.8	205.1
+10			9.6	204.3
N¼			10.2	203.7
℄			12.7	201.2

8.1
+0.1

19.8
2.2
17.6
4.5
22.4

12.7
3.5
9.2

17.6
19.7
9.6
10.1

2+82		213.90		
+5			16.8	197.1
S¼			18.5	195.4
Scb			18.4	195.5
S.L.			22.4	191.5
2'S			20.5	192.4
20S			21.5	192.4
2+86				
30'S			22.5	191.4
20'S			21.5	192.4
S.L			19.7	194.2
Scb			17.2	196.7
+10			15.0	198.9
S¼			14.5	199.4
+7			14.9	199.0
℄			15.6	198.3
+9			15.5	198.4
+7 top M.H.			13.12	200.78
+10			12.3	201.6
N ¼			11.7	202.2
+8			11.2	202.7
Ncb			11.7	202.2
+4			12.0	201.9
+9			9.7	204.2
N.L			9.6	204.3

El. 9' higher

Maple St

2+86		213.90		
15'N			7.9	206.0
2+96				
15'N			3.3	210.6
N.L			4.7	209.2
+2			5.2	208.7
Ncb			9.6	204.3
+4			10.8	203.1
N'4			12.1	201.8
℄			12.6	201.3
+10			9.2	204.7
S'4			9.0	204.9
Scb			10.7	203.2
+5			12.0	201.9
S.L			15.2	198.7
10'S			18.2	195.7
20'S			20.7	193.2
30'S			21.6	192.3
3+06				
20'S			17.0	196.9
6'S			12.7	200.2
S.L			10.9	203.0
Scb			6.8	207.1
S'4			3.4	210.5
+4			3.2	210.7

Maple St

3+06		213.90		
℄			7.0	206.9
+8			9.0	204.9
N'4			8.6	205.3
+8			7.1	206.8
Ncb			4.4	209.5
N.L			0.7	213.2
15'N			+1.8	215.7
T.P	12-0.7	225.97	0.00	213.90
3+24				
15'N			3.1	222.9
N.L			6.5	219.5
Ncb			9.2	216.8
N'4			11.0	215.0
℄			11.8	214.2
+11			12.4	213.6
S'4			12.7	213.3
Scb			14.7	211.3
S.L			17.4	208.6
20'S			22.7	203.3
3+40				
20'S			21.0	205.0
S.L			18.0	208.0
S.L.			17.0	209.0
Scb			14.0	212.0

El. 9' higher

Maple.

10.4
9.8
20.2

5.3
2.6
7.7
3.4

225.97

3+40			
S'/4	12.0	214.0	
℄	10.1	215.9	
N'/4	8.0	218.0	
Ncb	5.3	220.7	
N.L	1.7	224.3	
15'N	+2.7	228.7	
3+58			
15'N	+3.4	229.4	
N.L	0.5	225.5	
Ncb	4.0	222.0	
N'/4	7.1	218.9	
℄	10.3	215.7	
S'/4	12.6	213.4	
Scb	15.1	210.9	
S.L.	17.7	208.3	
17'S.	20.2	205.8	
20'S	22.6	203.4	
3+85			
20'S	24.9	201.1	
12'S	23.5	202.5	
6'S	21.7	204.8	
S.L	20.3	205.7	
Scb	17.4	208.6	
S'/4	14.4	211.6	

10.2

7.1
2.9
4.2
3.3
0.9

3+85	225.97		
℄		12.3	213.7
N'/4		9.7	216.3
Ncb		6.3	219.7
N.L		2.9	223.1
15'N		+0.9	226.9
4+00			
15'N		1.8	224.2
N.L.		5.4	220.6
Ncb		8.7	217.3
N'/4		11.1	214.9
℄		13.5	212.5
S'/4		15.7	210.3
Scb		18.2	207.8
+8		10.3	215.7
S.L		22.0	204.0
2'S		22.6	203.4
7'S		24.4	201.6
20'S		24.6	201.4
4+20			
20'S		27.2	198.8
12'S		24.2	201.8
5'S		24.6	201.4
S.L		25.9	200.1
+5		25.6	200.4

E. 9' higher

	10.2	Maple	5.9 2.0 1.1	
4+20		225.97		
+10			23.3	202.7
S cb			22.7	203.3
+10			20.6	205.4
S ¼			20.2	205.8
+7			18.2	207.8
℄			17.2	208.8
N ¼			13.6	212.4
N cb			10.8	215.2
N.L.			9.2	216.8
15' N			6.5	219.5
T.P	0.57	214.17	12.37	213.60
4+31				
15' N			1.0	213.2
N.L			2.1	212.1
N cb			3.1	211.1
N ¼			5.0	209.2
+7			6.7	207.5
℄			8.9	205.3
S ¼			11.2	203.0
S cb			13.3	200.9
+3			13.6	200.6
+7			14.6	199.6
+12			13.4	200.8
S.L			13.0	201.2

	10.6 4.7 5.9	12.7	11.0	
4+31		214.17		
9' S			12.8	201.4
30' S			19.5	194.7
4+37				
30' S			20.7	193.5
20' S			18.7	195.5
10' S			12.9	201.3
S.L			13.2	201.0
+2			13.4	200.8
+7			15.8	198.4
S cb			15.2	199.0
S ¼			13.4	200.8
℄			11.4	202.8
+7			11.0	203.2
+8			9.9	204.3
N ¼			8.3	205.9
N cb			6.2	208.0
N.L			5.7	208.5
15' N.			2.7	211.5
4+48				
15' N			8.5	205.7
N.L			10.6	203.6
N cb			12.5	201.7
¼			14.3	199.9
℄			15.7	198.5

El. 9' Water

12.8	Maple	11.5 / 1.9 / 9.6		1.59 / 57 / 8.2	
4+48		214.17			
S¼			16.6	197.6	
Scb			17.3	196.9	
+3			15.3	198.9	
+11			13.9	200.3	
S.L			13.5	200.7	
5'S			13.8	200.4	
20'S			20.7	193.5	
T.P	12.77	214.43	12.51	201.66	
4+58					
20'S			20.8	193.6	
8'S			16.6	197.8	
S.L			13.5	200.9	
+3			13.3	201.1	
Scb			17.2	197.2	
+6			16.5	197.9	
S¼			16.6	197.8	
℄			16.3	198.1	
N¼			15.9	198.5	
Ncb			14.4	200.0	
N.L			12.7	201.7	
15'N			11.3	203.1	

13.4 / 1.7 / 11.5					
Sta	+	H.I	−	El	
4+67		214.43			
15'N			12.4	202.0	
N.L			14.0	200.4	
Ncb			15.1	199.3	
N¼			15.6	198.8	
℄			16.4	198.0	
S¼			16.7	197.7	
Scb			16.6	197.8	
+2			16.1	198.3	
+4			19.3	195.1	
S.L.			20.6	193.8	
20'S			24.0	190.4	
4+77					
20'S			22.8	191.6	
7'S			20.1	194.3	
S.L			16.7	197.7	
+6			12.5	201.9	
+12			12.3	202.1	
Scb			12.6	201.8	
+8			16.2	198.2	
S¼			15.9	198.5	
℄			15.6	198.8	
N¼			14.8	199.6	
+9			13.6	200.8	
Ncb			13.5	200.9	

ET. 9 higher

Maple St.

				10.2
4+77		214.43		
N.L			12.8	201.6
15' N			11.8	202.6
4+85				
15' N			8.0	206.4
N.L			8.5	205.9
+7			8.4	206.0
Ncb			9.4	205.0
N'4			10.8	203.6
℄			13.1	201.3
+10			14.7	199.7
S'4			14.0	200.4
+2			13.8	200.6
+7			9.2	205.2
Scb			11.8	202.6
+4			11.3	203.1
+8			12.3	202.1
S.L			15.6	198.8
20' S			22.0	192.4
5+00				
20' S			20.2	194.2
S.L			15.5	198.9
+11			11.2	202.2
Scb			10.6	203.8
S'4			9.8	204.6

Maple St

				13.0
5+00		214.43		
S'4 +7			7.7	206.7
℄			6.8	207.6
N'4			6.0	208.4
+7			4.4	210.0
Ncb			3.8	210.6
+7			2.0	212.4
N.L			1.4	213.0
7' N			0.3	214.1
15' N			1.9	212.5
T.P	10.83	225.20	0.06	214.37
5+20				
15' N			5.2	220.0
N.L			6.8	218.4
Ncb			8.3	216.9
N'4			10.5	214.7
+8			11.7	213.5
℄			13.0	212.2
+8			15.0	210.2
+10			18.8	206.4
S'4			20.8	204.4
+11			21.1	204.1
Scb			21.6	203.6
+6			23.2	202.0
S.L			25.9	199.2
20' S			30.6	194.6

E. 9' higher

Maple St

5+36		225.20		
30'S			36.8	188.4
S.L			26.0	197.2
+8			25.2	200.0
Scb			22.4	202.8
+4			20.9	204.3
S'4			20.2	205.0
+5			20.2	205.0
+9			18.5	206.7
+11			12.5	212.7
℄			11.9	213.3
+10			9.0	216.2
N'2			9.4	215.8
+5			8.2	217.0
Ncb			7.2	215.0
+11			6.0	219.2
N.L			5.0	220.2
13'N			2.0	223.2
5+58				
15'N			1.8	223.4
N.L			3.2	222.0
+8			5.0	220.2
Ncb			6.5	218.7
N'4			9.4	215.8

Maple St

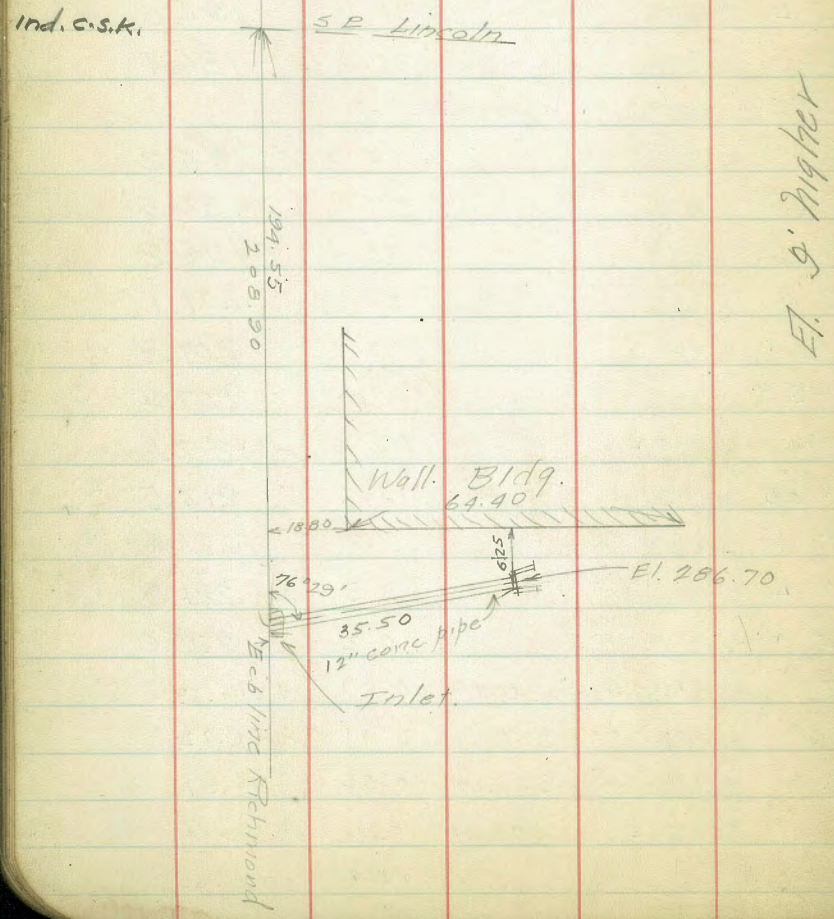
5+58		225.20		
N'4+9			16.0	209.2
℄			18.4	206.8
S'4			19.3	205.9
+4			20.2	205.0
Scb			24.5	200.7
S.L			31.2	194.0
30'S			38.8	186.4
End Section. 593.55 on N.				
80'S			40.0	185.2
S.L.			34.7	190.5
Scb			30.4	194.8
S'4			24.1	201.1
℄			17.3	207.9
+5			18.0	207.2
N'4			12.6	212.6
Ncb			11.7	213.5
+11			3.8	221.4
N.L			3.3	221.9
15'N			0.2	225.0
T.P.	12.20	236.93	0.47	224.73
T.P.	12.79	249.61	0.11	236.82
T.P.	12.90	261.99	0.52	249.09
T.P.	12.51	274.39	0.11	261.88
			0.19	274.20

El. 9' higher

Maple

T.P	12.45	286.65		274.20	
T.P	8.62	293.95	1.32	285.33	281.96
BM Beginning			3.92	290.03	(289.96)

Culvert in Richmond Blk. 184

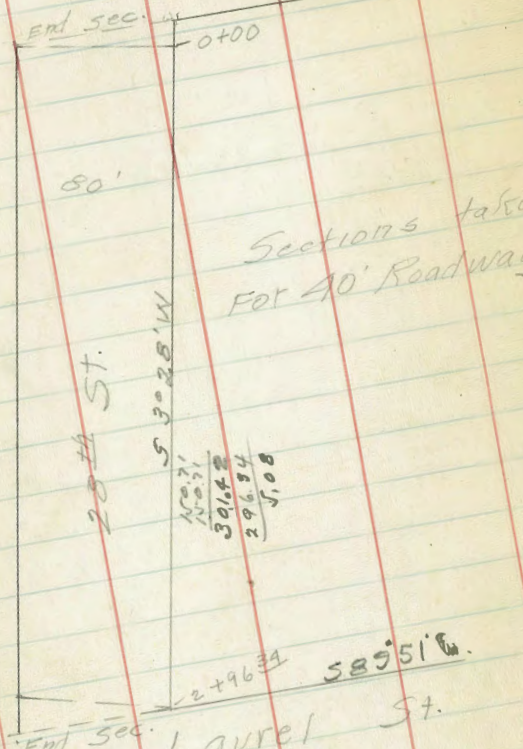


May 21-28 ind. c.s.k.

odon
bel
organ

Cross-section 28th St From

Maple St.



Sections taken For 40' Roadway

Maple to Laurel

Sta	+	H.I.	—	El.	Bott N.E. Maple & 28th
B.M	0.78	256.99		256.21	
	1.32	245.96	12.35	244.64	
End Section					
E.L			5.0	241.0	
+15		246.0	4.9	241.1	
Ecb			5.2	240.8	
E¼			5.6	240.4	
℄			5.8	240.2	
W¼			5.7	240.3	
Wcb			5.6	240.4	
+10			5.9	240.1	
W.L			6.6	239.4	
0+00			6.6	239.4	
W.L			6.1	239.9	
+10			5.9	240.1	
Wcb			6.1	239.9	
W¼			6.2	239.8	
℄			6.0	240.0	
E¼			5.8	240.2	
Wcb			5.6	240.4	
W.C					
0+10			6.9	239.1	
E.C.			7.3	238.7	
Ecb			7.6	238.4	
E¼					

Plotted - 5-23-1928 GBH.

El. higher

28th

0+10		245.96		
℄			7.9	238.1
W'4			7.8	238.2
Wcb			7.6	238.4
+7			7.6	238.4
W.L			8.0	238.0
0+30				
W.L			10.9	235.1
+10			10.8	235.2
Wcb			11.2	234.8
W'4			11.3	234.7
℄			11.3	234.7
E'4			11.1	234.9
Ecb			10.8	235.2
+12			10.5	235.5
E.L.			10.6	235.4
T.P.	0.44	233.40	13.00	232.96
0+50				
10' E.			3.9	229.5
E.L.			3.4	230.0
+10			2.9	230.5
Ecb			2.4	231.0
E'4			2.2	231.2
℄			2.3	231.1
W'4			2.2	231.2

0+50		233.40		
Wcb			2.1	231.3
+12			1.6	231.8
W.L			1.5	231.9
10' W			1.4	232.0
0+75				
10' W			5.0	228.4
W.L			5.5	228.9
+12			5.9	227.5
Wcb			7.0	226.4
W'4			7.3	226.1
℄			7.6	225.8
E'4			7.8	225.6
+8			8.3	225.1
Ecb			8.5	224.9
+10			9.0	224.4
+15			10.2	223.2
E.L			9.7	223.7
10' E			10.1	223.3
0+95				
10' E			13.9	219.5
E.L			13.4	220.0
+5			14.1	219.3
+8			12.9	221.5
Ecb			12.6	220.8

E7. higher

28th

0+95		233.40		
E'4			12.3	221.1
℄			11.8	221.6
W'4			11.3	222.1
W cb			10.7	222.7
+12			9.2	223.2
+16			8.8	224.6
W.L			8.7	224.7
10'W			8.0	225.4
T.P.	0.77	221.29	12.88	220.52
1+15				
10'W.			0.1	221.2
W.L			0.9	220.4
+5			1.1	220.2
W cb			2.4	218.9
W'4			3.5	217.8
℄			3.9	217.4
E'4			4.5	216.8
+5			4.7	216.6
E cb			4.7	216.6
+13			4.9	216.4
+15			5.5	215.8
+16			6.2	215.1
+17			5.3	216.0
E.L.			5.2	216.1
10'E			6.0	215.3

1+40		221.29		
10'E.			11.5	209.8
E.L			10.4	210.9
+2			10.2	211.1
+3			11.3	210.0
+5			10.1	210.2
+10			9.4	211.9
E cb			9.7	211.6
E'4			9.5	211.8
℄			8.9	212.4
W'4			7.5	213.8
W cb.			6.6	214.7
+11			6.6	214.7
W.L			6.7	214.6
10'W			7.3	214.0
1+55				
10'W			12.1	209.2
W.L			10.8	210.5
+5			10.2	211.1
+12			9.7	211.6
W cb			9.7	211.6
W'4			10.2	211.1
℄			11.4	209.9
E'4			12.5	208.8
E cb			12.7	208.6

E. 9' higher

28th

11.1
2.7
8.4

1+55		221.29		
wcb +12			12.9	208.4
+16			13.5	207.8
+17			14.2	207.1
E.L.			13.5	207.8
10'E			14.4	206.9
T.P	0.43	208.92	12.80	208.49
1+70				
10'E			6.5	201.4
5'E			5.1	203.8
E.L.			4.2	204.7
+3			4.2	204.7
+5			5.3	203.6
+6			4.2	204.7
Ecb			3.2	205.7
E¼			2.9	206.0
℄			2.5	206.4
+5			1.6	207.3
W¼			1.4	207.5
wcb			0.9	208.0
+10			1.3	207.6
+16			1.7	207.2
W.L			3.0	205.9
15'W			5.0	203.9

1+95	208.92		
20'W		16.4	192.5
15'W		15.1	193.8
W.L		11.6	197.3
+5		10.4	198.5
+15		7.9	201.0
wcb		7.6	201.3
W¼		7.0	201.9
℄		6.8	202.1
E¼		7.4	201.5
Ecb		7.9	201.0
+4		8.3	200.6
+10		9.6	199.3
+16		9.9	199.0
E.L.		11.4	197.5
7'E		13.4	195.5
10'E		13.8	195.1
2+10			
10'E		14.6	194.3
E.L		13.8	195.1
+6		13.0	195.9
+14		13.0	195.9
Ecb		11.5	197.4
+8		10.4	198.5
E¼		10.4	198.5

Et. 9' higher

12.9
17.4
30.3

28th

2+10		208.92		
℄			10.0	198.9
W¼			10.6	198.3
+5			11.1	197.8
W cb			12.9	196.0
+11			16.7	192.2
W.L			19.7	189.2
20'W			23.2	185.7
2+25				
20'W			30.3	178.6
4'W			26.9	182.0
W.L			26.0	182.9
+5			24.9	184.0
W cb			20.3	188.6
+5			18.3	190.6
W¼			16.3	192.6
℄			12.8	196.1
E¼			12.9	196.0
E cb			13.7	195.2
+8			14.5	194.4
+10			14.7	194.2
E.L			15.2	193.7
10'E			15.3	193.6
T.P.	0.05	196.11	12.86	196.06

12.1
5.2
6.9
13.2
25.1

2+40		196.11	
10'E		3.5	192.6
E.L.		3.4	192.7
+15		3.0	193.1
E cb		3.1	193.0
+3		2.5	193.6
E¼		2.6	193.5
+8		4.1	192.0
℄		4.7	191.4
+5		6.1	190.0
W¼		7.6	188.5
W cb		10.9	185.2
+10		14.3	181.8
W.L		18.9	177.2
20'W		23.5	172.6
2+55			
20'W		25.1	171.0
W.L		23.6	172.5
+10		20.6	175.5
+15		18.9	177.2
W cb		17.6	178.5
+5		14.8	181.3
W¼		13.2	182.9
℄		9.6	186.5
+2		7.3	188.8

E. 9' higher

12.2 28+4

2+55	196.11		
℄ +8		5.0	191.1
E¼		4.7	191.4
Ecb		4.6	191.5
+6		4.1	192.0
+14		4.5	191.6
E.L.		4.4	191.7
6'E		4.8	191.3
10'E		6.1	190.0
2+80			
10'E		9.7	186.4
E.L		8.5	187.6
+9		7.9	188.2
Ecb		5.4	190.7
E¼		5.4	190.7
+4		6.3	189.8
+8		8.6	187.5
℄		10.2	185.9
W¼		16.3	179.8
+3		17.5	178.6
+5		18.8	177.3
Wcb		21.5	174.6
+8		23.1	173.0
+11		25.7	170.4
+12		25.2	170.9

11.8

2+80	196.11		
W.L		25.4	170.7
15'W		25.6	170.5
20'W		27.0	169.1
25'W		25.7	170.4
2+96.34			
20'W		25.6	170.5
12'W		26.6	169.5
10'W		29.0	167.1
5'		27.7	168.4
W.L		26.9	169.2
+3		25.7	170.4
+13		24.4	171.7
+16		23.3	172.8
Wcb		21.0	175.1
W¼		13.6	182.5
+7		10.1	186.0
℄		9.3	186.8
E¼		8.8	187.3
Ecb		10.8	185.3
+15		10.7	185.4
E.L		10.8	185.3
10'E.		11.6	184.5

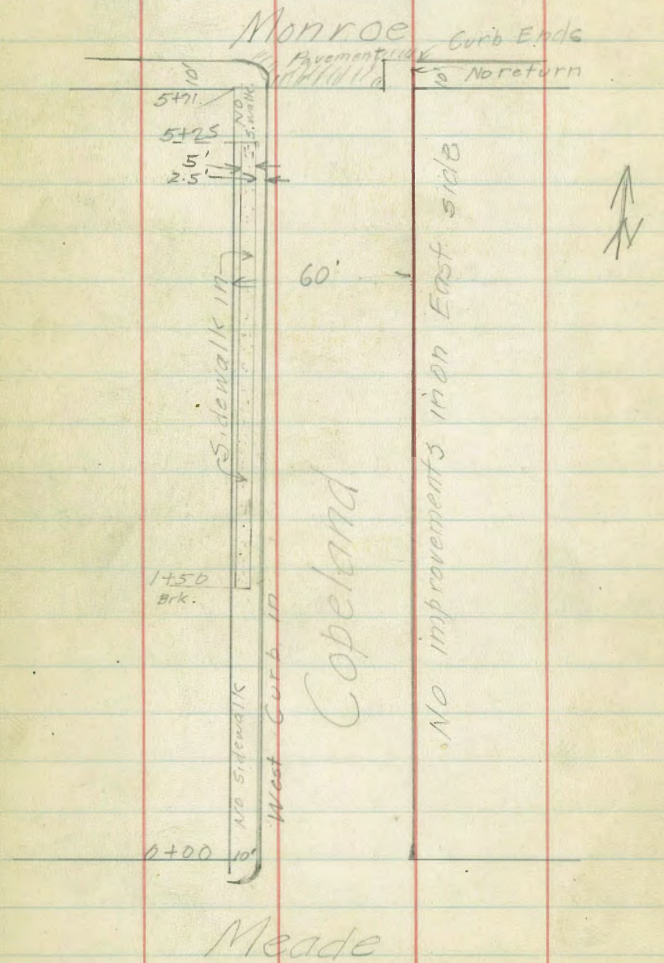
9' higher

12.7 28+4

Sta.	+	H.I.	–	El.
End	Section	196.11		
EL +10			10.9	185.2
E. cb			11.1	185.0
E¼			9.7	186.4
+5			9.7	186.4
℄			10.1	186.0
+5			11.6	184.5
W¼			13.9	182.2
W cb			19.3	176.8
+5			22.7	173.4
+10			24.7	171.4
+13			25.4	170.7
W.L			25.7	170.4
4'W			25.6	170.5
5'W			28.4	167.7
8'W			28.6	167.5
10'W			26.7	169.4
20'W			25.9	170.2
T.P	12.55	208.58	0.08	196.03
T.P	12.56	220.82	0.32	208.26
T.P	12.62	232.09	0.35	220.47
T.P.	12.57	245.64	0.02	233.07
T.P.	12.93	257.59	0.98	244.66
B.M	Beginning		1.34	256.25

Ft. 9' higher. See page 41

ind. c.s.k.



B.M	6.03	370.55		364.52	O.P.N.W Copeland & Meade
0+00					
E.L.			5.5	365.1	
Ecb		5/27/28	5.5	365.1	
¼			5.5	365.1	
+2			5.6	365.0	
℄			5.2	365.4	
¼		Plotted	5.8	364.8	
Gut			6.3	364.3	
wcb			6.07	364.58	
+5			5.8	364.8	
W.L.			5.7	364.9	
0+25					
W.C			5.1	365.5	
+5			5.3	365.3	
wcb			5.68	364.87	
Gut			5.9	364.7	
¼			5.8	364.8	
+7			5.3	365.3	
℄			5.5	365.1	
+5			5.6	365.0	
¼			5.5	365.1	
cb			5.5	365.1	
E.L			5.4	365.2	
Walk at 0+32 on E.C.			5.26	365.29	

0+50	370.55		
E.L.		5.4	365.2
cb		5.4	365.2
¼		5.5	365.1
℄		5.4	365.2
+3		5.3	365.3
¼		5.7	364.9
Gut		5.8	364.8
wcb		5.31	365.24
+7		4.8	365.8
W.L		4.6	366.0
0+75			
W.L		4.5	366.1
wcb		5.11	365.44
Gut.		5.6	365.0
+5		5.7	364.9
¼		5.7	364.9
℄		5.2	365.4
¼		5.6	365.0
Ecb		5.5	365.1
+5		5.5	365.1
E.L		5.7	364.9

1+00	370.55		
E.L		6.2	364.4
cb		5.8	364.8
¼		5.5	365.1
+5		5.0	365.6
℄		4.8	365.8
+7		5.3	365.3
¼		5.4	365.2
Gut.		5.7	364.9
wcb		4.97	365.58
W.L		4.4	366.2
1+25			
W.L		4.6	366.0
wcb		4.83	365.72
Gut		5.5	365.1
¼		5.3	365.3
+4		5.3	365.3
℄		4.7	365.9
+4		4.4	366.2
+8		4.6	366.0
¼		4.9	365.7
+5		5.0	365.6
cb		5.3	365.3
E.L		6.0	364.6

1+50	370.55		
E.L		6.5	364.1
cb		6.2	364.4
+8		5.9	364.7
1/4		5.5	365.1
+6		4.7	365.9
℄		4.7	365.9
+7		5.2	365.4
1/4		5.3	365.3
Gut		5.4	365.2
wcb (Brk)		4.66	365.89
W.L		4.4	366.2
1+75			
wcb		4.86	365.69
Gut.		5.4	365.2
1/4		5.2	365.4
℄		4.9	365.7
1/4		5.9	364.7
cb		6.3	364.3
W.L		6.4	364.2
2+00			
E.L		6.0	364.6
cb		6.7	363.9
+8		6.5	364.1
1/4		6.2	364.4

2+00	370.55		
1/4+5		5.4	365.2
℄		5.4	365.2
+7		5.8	364.8
1/4		5.7	364.9
Gut.		5.6	365.0
wcb		5.03	365.52
2+25			
wcb		5.24	365.31
Gut		5.7	364.9
1/4		5.8	364.8
+5		5.7	364.9
℄		5.5	365.1
+5		5.6	365.0
1/4		6.5	364.1
cb		6.6	364.0
E.L.		5.9	364.7
2+50			
E.L.		7.0	363.6
cb		6.7	363.9
+6		6.6	364.0
1/4		6.3	364.3
℄		5.4	365.2
1/4		5.8	364.8
Gut.		6.0	364.6

2+50		370.55		
wcb			5.35	365.20
2+75				
wcb			5.56	364.99
Gut			6.1	364.5
¼			5.9	364.7
+8			5.5	365.1
℄			5.6	365.0
¼			6.4	364.2
cb			6.2	364.4
E.L			5.8	364.8
3+00				
E.L			6.9	363.7
cb			6.9	363.7
¼			6.2	364.4
℄			5.6	365.0
¼			5.9	364.7
Gut			6.3	364.3
wcb			5.69	364.86
T.P	372	368.46	5.81	364.74
M.H. at 2+85 3			3.54	364.92

		368.46		
3+25				
wcb			3.85	364.61
Gut			4.6	363.9
¼			4.2	364.3
+8			3.5	365.0
℄			3.4	365.1
+8			3.7	364.8
¼			3.9	364.6
+6			4.8	363.7
cb			4.8	363.7
E.L			4.8	363.7
3+50				
E.L			5.0	363.5
cb			5.0	363.5
¼			4.8	363.7
+8			4.0	364.5
℄			4.0	364.5
¼			4.6	363.9
Gut			4.9	363.6
wcb			3.99	364.47
3+75				
wcb			4.24	364.22
Gut			5.0	363.5
¼			4.7	363.8
℄			4.1	364.4

3+75	369.46			
℄+3		3.9	364.6	
¼		4.2	364.3	
+7		5.1	363.4	
cb		5.2	363.3	
E.L.		5.1	363.4	
4+00				
E.L		5.8	362.7	
cb		5.6	362.9	
¼		5.4	363.1	
+5		4.7	363.8	
℄		4.5	364.0	
¼		5.0	363.5	
Gut		5.2	363.3	
Wcb		4.46	364.00	
4+25				
wcb		4.69	363.77	
Gut		5.5	363.0	
¼		5.5	363.0	
+8		4.7	363.8	
℄		4.7	363.8	
+6		4.7	363.8	
¼		5.3	363.2	
+4		5.9	362.6	
cb		6.1	362.4	
E.L.		6.3	362.2	

	368.46			
4+50				
E.L.		6.5	362.0	
+5		5.8	362.7	
cb		5.4	363.1	
+6		5.0	363.5	
¼		5.2	363.3	
℄		5.1	363.4	
+6		5.5	363.0	
¼		5.6	362.9	
Gut		5.7	362.8	
Wcb		4.87	363.59	
4+75				
Wcb		4.97	363.49	
Gut		5.8	362.7	
¼		5.7	362.8	
+6		5.5	363.0	
℄		5.4	363.1	
¼		6.4	362.1	
cb		6.8	361.7	
E.L.		7.1	361.4	
5+00				
E.L		7.1	361.4	
cb		6.7	361.8	
+8		6.3	362.2	
¼		6.0	362.5	

5+00	368.46		
E'g +2		5.5	363.0
℄		5.3	363.2
℄		5.3	363.2
¼		5.8	362.7
Gut		5.9	362.6
Wcb		5.10	363.36
5+25			
W.L		5.4	363.1
Wcb		5.35	363.11
Gut		6.0	362.5
¼		5.9	362.6
℄		5.2	363.3
¼		5.7	362.8
+5		6.7	361.8
cb		6.8	361.7
E.L		7.0	361.5
5+50			
E.L		7.0	361.5
cb		6.6	361.9
¼		5.7	362.8
℄		5.4	363.1
¼		5.9	362.6
Gut		6.2	362.3
Wcb		5.58	362.88
W.L		5.6	362.9

5+62			
W.L.		5.8	362.7
Wcb		5.59	362.87
Gut		6.3	362.2
¼		6.1	362.4
℄		6.0	362.5
+5		6.1	362.4
¼		6.4	362.1
cb		6.9	361.6
E.L		7.1	361.4
5+69			
E.L.		6.9	361.6
cb		6.7	361.8
+5		6.4	362.1
¼		6.5	362.0
℄		6.4	362.1
+7		6.2	362.3
¼		6.2	362.3
Gut		6.2	362.3
Wcb		5.56	362.90
W.L		5.5	363.0
5+71			
W.L		5.3	363.2
Wcb		5.57	362.89
Gut (Pav.)		6.26	362.20

5+71		368.46		
W ¼	(Pav.)		6.43	362.03
℄	(Pav)		6.66	361.80
E. ¼	(Pav)		7.14	361.32
E Gut	Pav		7.62	360.84
+1			7.1	361.4
E.L.			7.2	361.3
BM			3.60	364.86

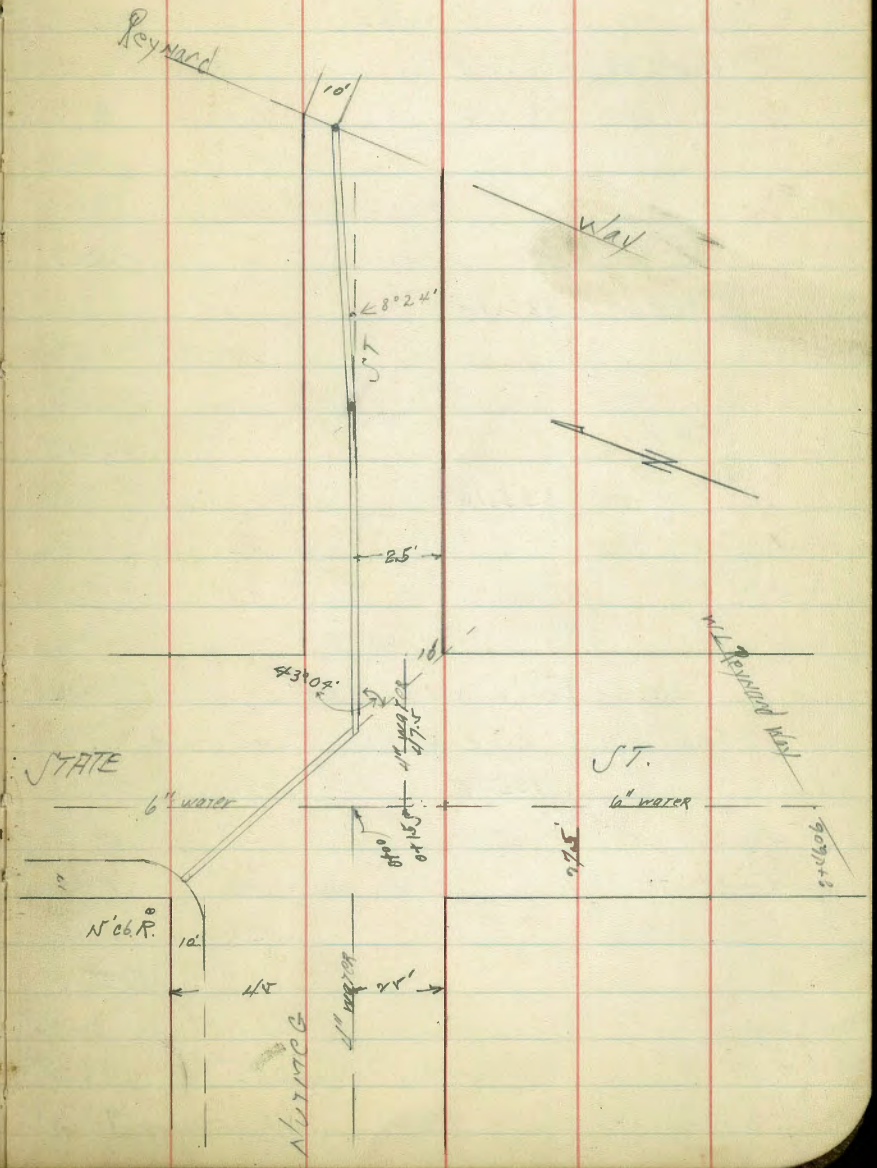
8-8-28 ind. c.s.k.

J.C. Bliss
Flood
Rauner
Clovert

Levels for 6" Water Main
from Nutmeg to Reynard Way
on State.

0+00 as indicated in sketch

Sta	+	H.I.	−	Rod	Elev.
B.M. S.E. B.P. Maple + India					77.87
	+13.14	91.01			
T.P.			0.24		90.77
	2.79	93.56			
T.P.			12.89		80.67
	6.96	81.63			
T.P.			12.84		68.79
	0.46	69.25			
T.P.			10.81		58.44
	3.85	62.29			
2+46.06 N. Line Reynard Way				5.5	56.8
2+28				3.8	58.5
T.P.			0.06		62.23
	11.67	73.90			
2+20				5.4	68.5
T.P.			0.66		73.24
	11.45	84.69			
2+12				5.5	79.2
2+00				2.2	82.5
T.P.			1.19		83.50
	12.94	96.44			
1+75				7.8	88.6
1+50				3.5	92.9



Sta	+	H.I.	−	Rod	Elev.
		96.44			
T.P.			0.25		96.19
	12.95	9[illegible]			
1+25				11.8	97.5
0+90				4.9	104.4
0+65				0.6	108.7
T.P.			0.15		109.14
	13.00	122.14			
0+40				6.5	115.6
0+32				0.6	121.5
T.P.			0.04		122.10
	13.08	135.18			
0+20				6.5	128.7
0+15				8.1	127.1
0+00				5.6	129.6

Levels for 4" Water Main starting at 0+15 on 6" Line for 0+00 and going East See Sketch ↓ Pg. 70

0+00		135.18		8.1	127.1
0+5				5.8	129.4
0+15				9.1	126.1
0+16				13.6	121.6
0+26				15.7	119.5
0+43				23.8	111.4
0+47.50	East Line State			26.5	108.7
0+63				36.7	98.5

Md. C.S.K.

Levels for Culvert from Nutmeg & State to Bernard Way. 0+00 = ℄ Catch Basin N.W. corner State & Nutmeg

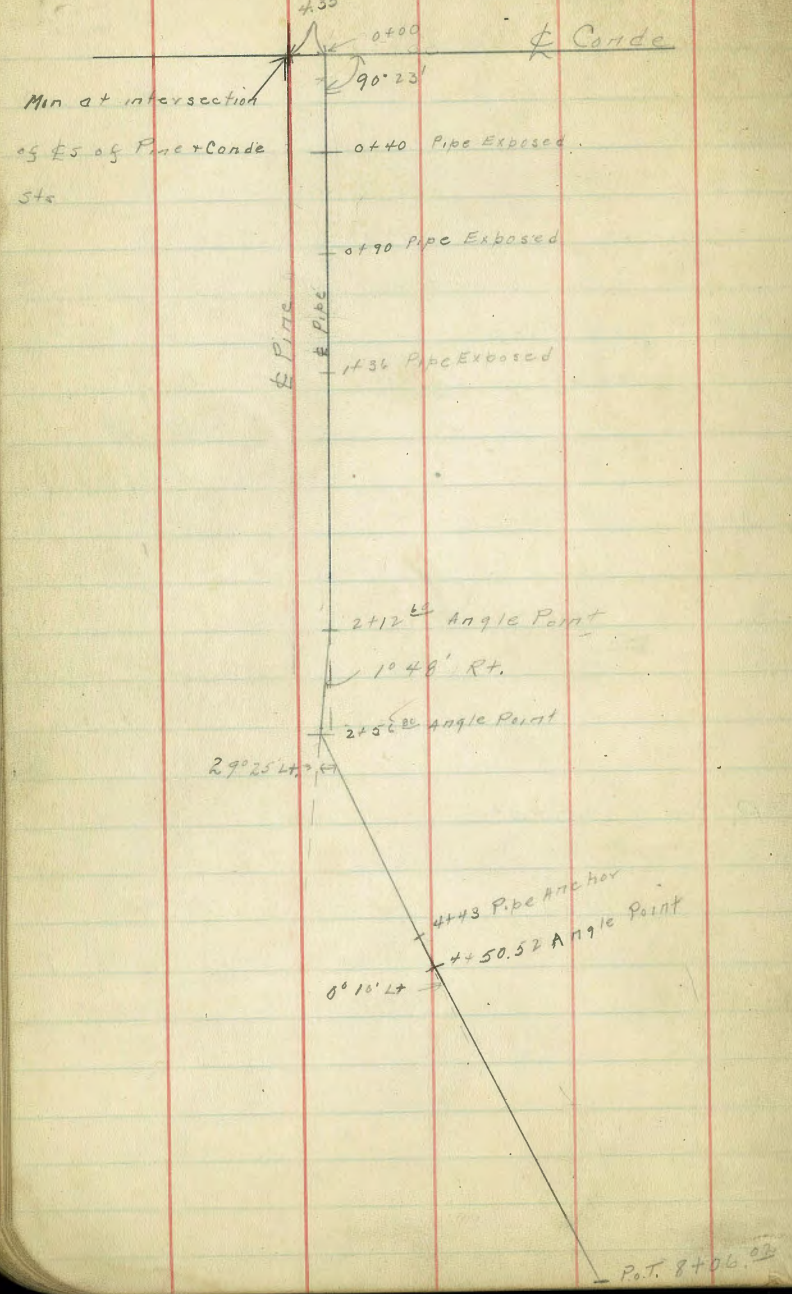
See sketch Pg 70

Sta	+	H.I.	−	Rod	Elev.
0+00		135.18		3.2	
0+35				3.6	
0+48				10.6	
T.P.			12.38		122.80
	0.03	122.83			
0+58 Angle point				3.5	
0+73				13.0	
T.P.			13.14		109.69
	0.02	109.71			
0+83				4.2	
0+85				0.1	
0+93				5.4	
T.P.			12.94		96.77
	0.10	96.87			
1+0.8				1.0	
1+28				7.9	
1+36.5 Angle Point				11.3	
T.P.			12.90		83.97
	0.17	84.14			
1+57				5.3	
1+75				12.1	
T.P.			12.28		71.86
	0.20	72.06			
1+90				1.5	

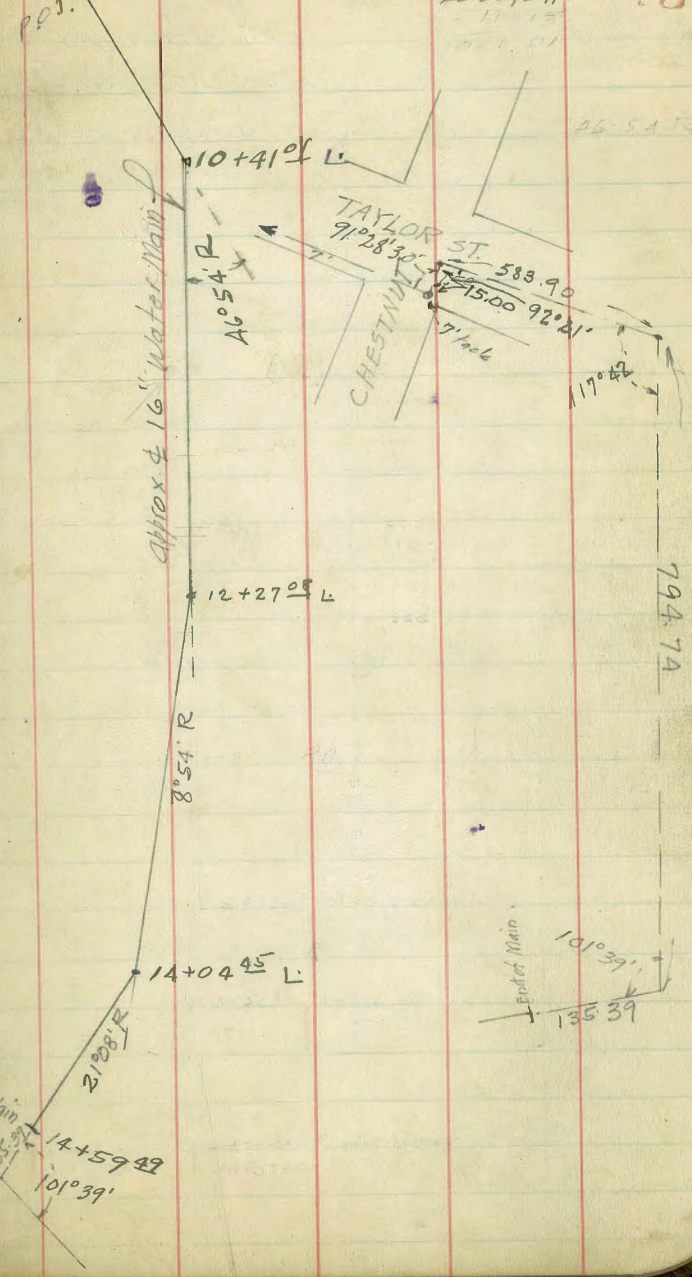
		72.06				
1+91				7.5		
T.P.			12.84		59.22	
	143	60.65				
2+03 26	West Line Bernard Way			4.4		
2+08 26	Top of cb over inlet at End of			8.52	52.13	
	cb on West side of Bernard Way					
	at Nutmeg					
	+5.86	57.99				
T.P.			-3.71		54.28	
	9.58	63.86				
T.P			-0.52		63.34	
	+12.99	76.33				
			-0.21		76.11	
	12.32	88.43				
			-0.39		88.04	S.E.B.P. Kalmia & State
					87.92	

S.C. Bliss
Dyebert + Rauner

Location of 16" Water Main across Blocks 469 + 474 Old Town



Con't 5/27/31
Loudon.

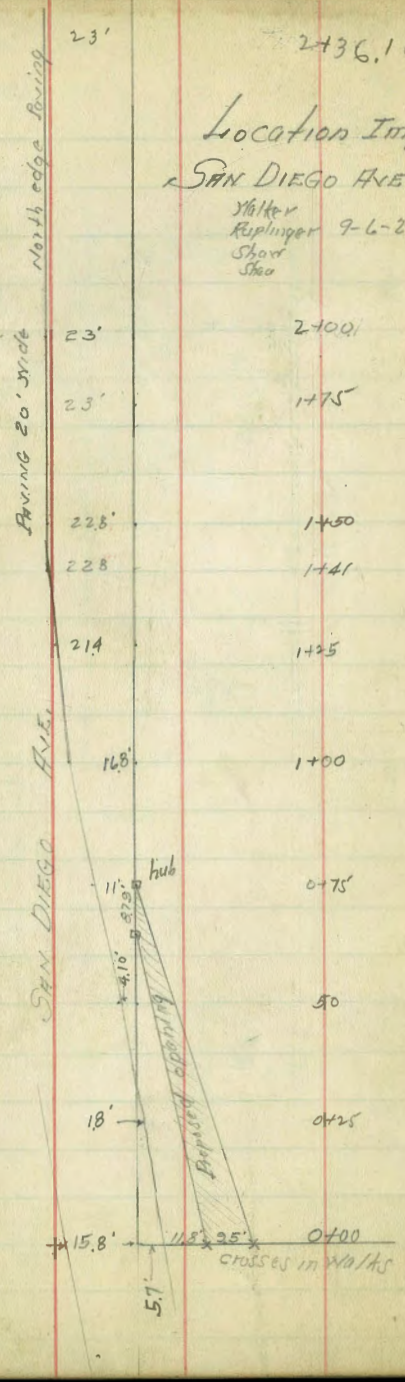


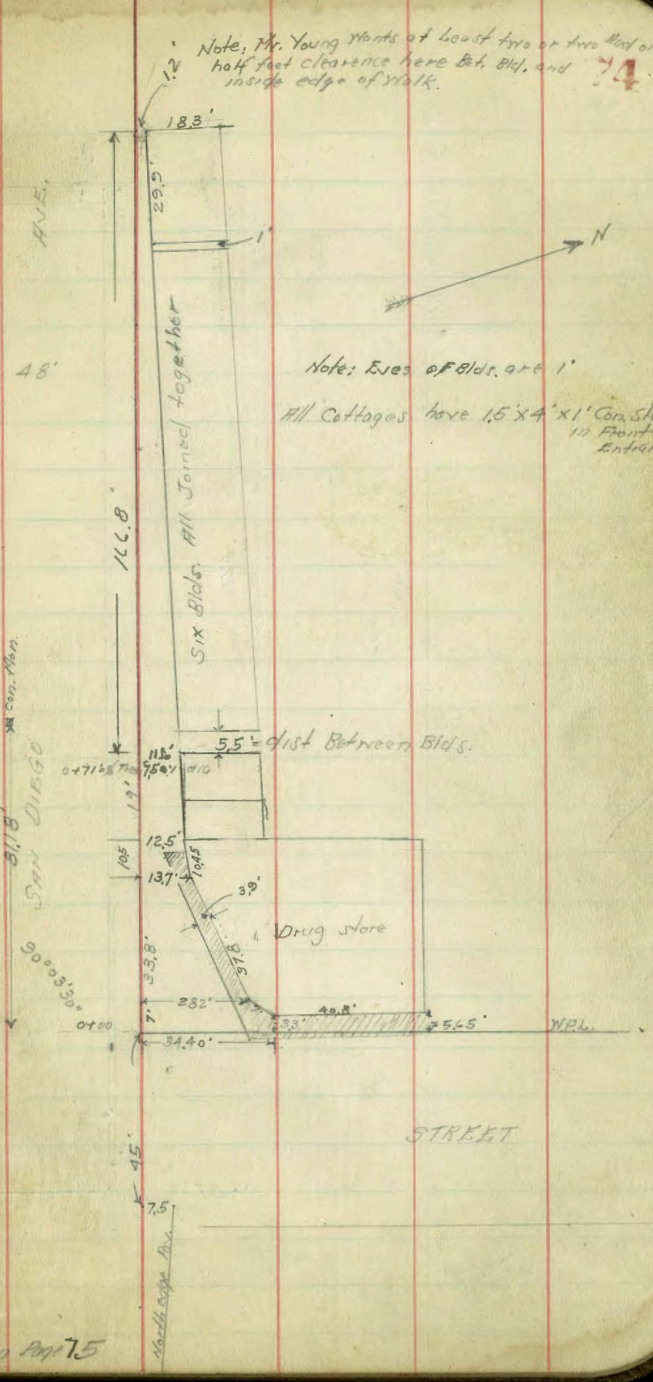
Ind. C.S.K.

Location Improvements Etc.

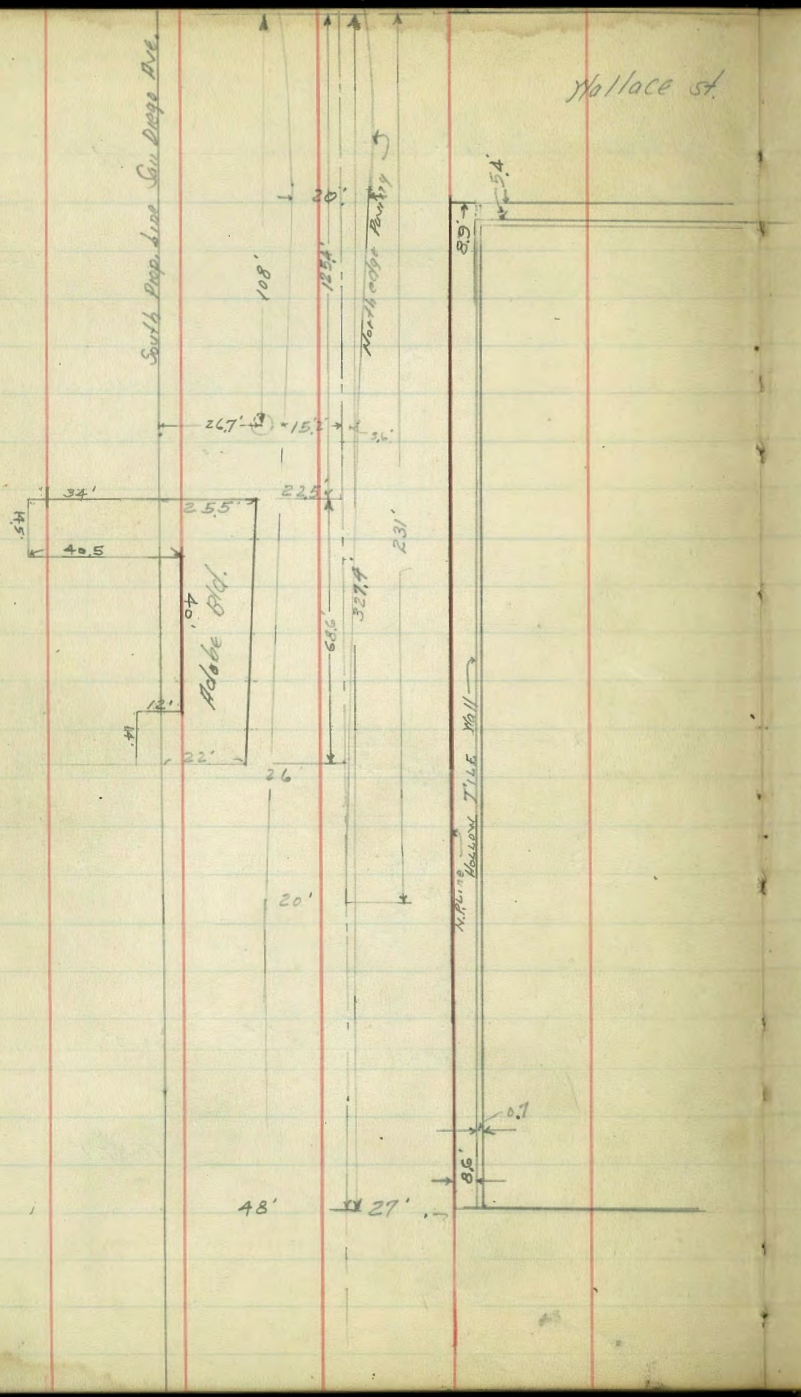
SAN DIEGO AVE thru WALLACE St.

Walter
Ruplinger 9-6-28
Starr
Shea





Cont. on Page 75


Wallace st.
South Prop. Line San Diego Ave.
North edge Paving
Adobe Bld.
Hollow Tile Wall
N.P. Line
108'
125.4'
20'
26.7'
15.2'
3.6'
22.5'
34'
25.5'
40.5
40'
12'
22'
26
20'
68.6'
327.4'
231'
5.4'
8.9'
0.7
8.6'
48'
27'

X-Section Golden Park Ave from Lucinda to P.L. 179 Mod. C.S.K. Jolger Bailey Clarent Kaemer } June 29th 76

60' Wide, 15' SW. 7.5' Quarters.

Sta		+	H.I.	−	Elev.
NE. B.P. Martinez					191.19
		11.83	203.02 ✓		
	T.P.			0.30	202.72
		12.88	215.60		
	T.P.			0.44	215.16
		4.95	220.11		
	T.P.			8.50	211.61
		7.14	218.75 ✓		
0+00	S.L. Lucinda				
+10'	Bott.			5.5	213.3
	Top			1.3	217.5
	W.L. Bott.			7.2	211.6 ✓
	Top			2.6	216.2
+13	Bott.			9.1	209.7
	Top			4.6	214.2
	W. Curb Bott.			9.2	209.6
	Top			6.4	212.4
+4'	Bott.			9.4	209.4
	Top			8.0	210.8
+5'				9.4	209.4
	W 1/4			9.7	209.1
	℄			10.5	208.3
	E 1/4			10.7	208.1
	E. Curb			10.7	208.1
	E.L.			12.6	206.2

Plotted 7-2-29 GMI

Sta		+	H.I.	−	Elev.
+10'				13.5	205.3
0+10					
+10'				13.0	205.8
	E.L.			11.9	206.9
	E. Curb			10.9	207.9
	E 1/4			10.4	208.4
	℄			10.3	208.5
+3'				9.5	209.3
+6'				7.2	211.6
	W 1/4			6.0	212.8
	W. Curb			4.7	214.1
+7'				4.5	214.3
	W.L.			3.1	215.7
+10'				1.6	217.2
0+50					
+10'				1.7	217.1
	W.L.			3.5	215.3
+7'				4.8	214.0
	W. Curb			4.9	213.9
	W 1/4			8.2	210.6
	℄			11.2	207.6
	E 1/4			12.0	206.8
	E. Curb			12.4	206.4
	E.L.			12.6	206.2
+10'				13.1	205.7

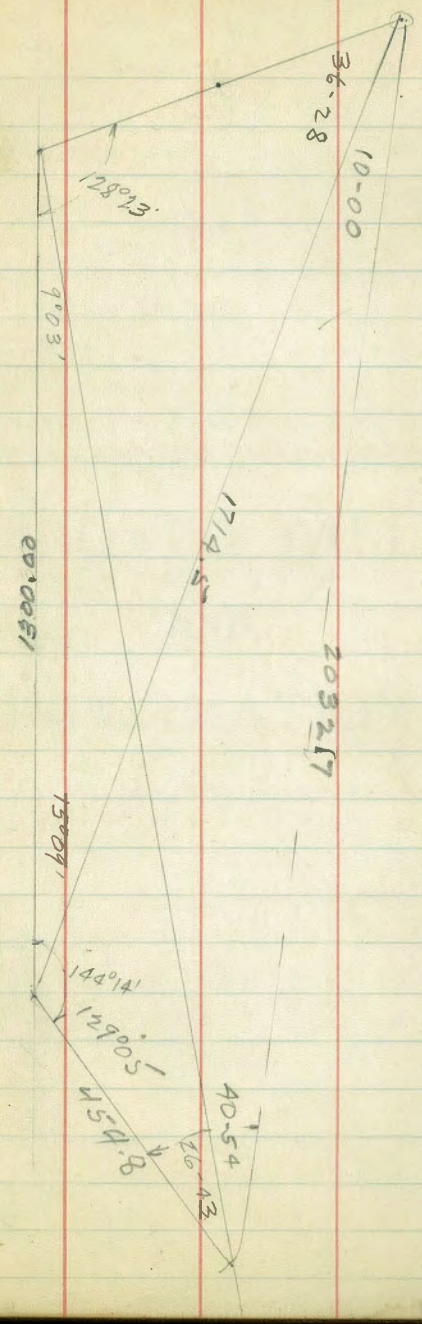
Sta	+	H.I.	−	Elev
0+75				
+10'			14.1	204.7
E.L.			13.6	205.2
E.Curb			12.4	206.4
E'/a			11.9	206.9
℄			11.1	207.7
W'/a			7.9	210.9
W.Curb			4.8	214.0
+7'			4.9	213.9
W.L.			2.8	216.0
+10'			1.0	217.3
1+00				
+10'			1.2	217.6
W.L.			3.2	215.6
+7'			5.0	213.8
W.Curb			5.0	213.8
W'/a			8.1	210.7
℄			10.4	208.4
E'/a			10.9	207.9
E.Curb			11.9	206.9
E.L.			13.4	205.4
+10'			14.1	204.7
1+20				
+10'			13.9	204.9
E.L.			12.8	206.0

Sta	+	H.I.	−	Elev
E.Curb			11.8	207.0
E'/a			10.5	208.3
℄			9.5	209.3
+5'			8.8	210.0
W'/a			7.7	211.1
W.Curb			5.1	213.7
+10'			4.6	214.2
W.L.			3.1	215.7
+10'			0.8	218.0
1+40				
+10'			1.0	217.8
W.L.			3.5	215.3
+7'			4.0	214.8
W.Curb			6.0	212.8
+3'			7.8	211.0
W'/a			8.2	210.6
℄			8.5	210.3
E'/a			9.5	209.3
E.Curb			10.7	208.1
E.L.			12.9	205.9
+10'			14.1	204.7
1+45				
+10'			13.6	205.2
E.L.			13.6	205.2
+10'			11.8	207.0

Sta		+	H.I.	−	Elev.
	E. Curb			8.9	209.9
	E'/a			8.4	210.4
	℄			8.0	210.8
	W'/a			7.7	211.1
	W. Curb			7.2	211.6
	+5'			5.2	213.6
	+10'			3.8	215.0
	W. L.			3.5	215.3
	+10'			2.2	216.6
1+50	P.L.L.	179			
	+10'			2.2	216.6
	W. L.			2.8	216.0
	+7'			4.7	214.1
	W. Curb			7.2	211.6
	W'/a			7.3	211.5
	℄			7.2	211.6
	E'/a			7.0	211.8
	E. Curb			7.4	211.4
	+6'			9.6	209.2
	E. L.			14.9	203.9
	+10'			17.2	201.6
	T.P.			2.11	216.69
		3.02	219.66		
	T.P.			13.10	206.56
		0.73	207.29		

Sta		+	H.I.	−	Elev.
	T.P.			10.43	196.86
		3.93	200.79		
	T.P.			9.58	191.21
NE. B.P.	Martinez				191.19
			OK		191.19
					0.00 ✓
T.P.					211.61
		6.13	217.74 ✓		
0+00	Intersection P.L.L. 179 & ℄ existing Rd.			6.2	211.5
0+50				3.7	214.0
1+00				1.7	216.0
	T.P.			0.16	217.58
		12.65	230.23		
1+50				12.4	217.8
2+00				11.5	218.7
2+50				10.0	220.2
3+00				9.2	221.0
3+50				8.3	221.9
4+00				7.0	223.2
4+50				4.5	225.7
5+00				1.4	228.8

STA		+	H.I.	−	Elev.


36-28
10-00
128°23'
9°03'
1714.5
1300.00
2032.17
15°09'
144°14'
129°05'
454.8
40-54
26-43

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.

3953
175
2203

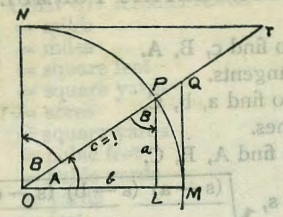


TABLE II

TRIGONOMETRIC FORMULÆ.

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

$R = OB = c = 1$

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

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

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

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

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

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

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

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

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

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

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

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

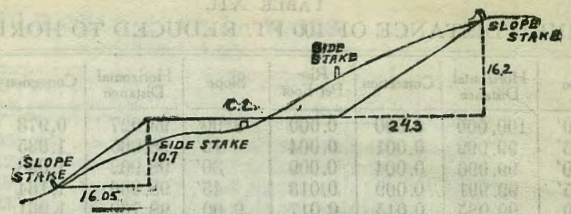
Law of Sines $\frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C^1}{C}$

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

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

C ° ′	R Fee
0–20	171
0–40	85
1–0	57
1–20	42
1–40	34
2–0	28
2–20	24
2–40	21
3–0	19
3–20	17
3–40	15
4–0	14
4–20	13
4–40	12
5	11
6	95
7	81

To find leng



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.

$\frac{483}{29}$ 26.7

185.8
19
1668

$\frac{352}{13}$

14
27
40
53
66
80

$\frac{68}{1.33}$

703
51.3
190

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO
CALIFORNIA.

137.35
39.53
33
209.88
15
224.88
62.53

207.31
375
24481
20
22481

62.5
15
47.5

5.06

1255
686

75
235
140
450

191.19
+ 11.83
203.02
0.30
202.72
+ 12.88
215.60
- 0.44
215.16
+ 4.95
220.11
- 8.50
211.61
+ 7.14
218.75
- 2.11
216.64
+ 3.02
219.66
- 13.10
206.56
+ 0.73
207.29
- 10.43
195.86
+ 3.93
209.79
- 9.58
191.21

364.52
.605
370.57
5.32
5

597
91
141

368.69
2.58
366.11
365.89
.22

215
5.7
15.8

211.61
+ 6.13
217.74
- 0.16
217.58
12.65
230.23