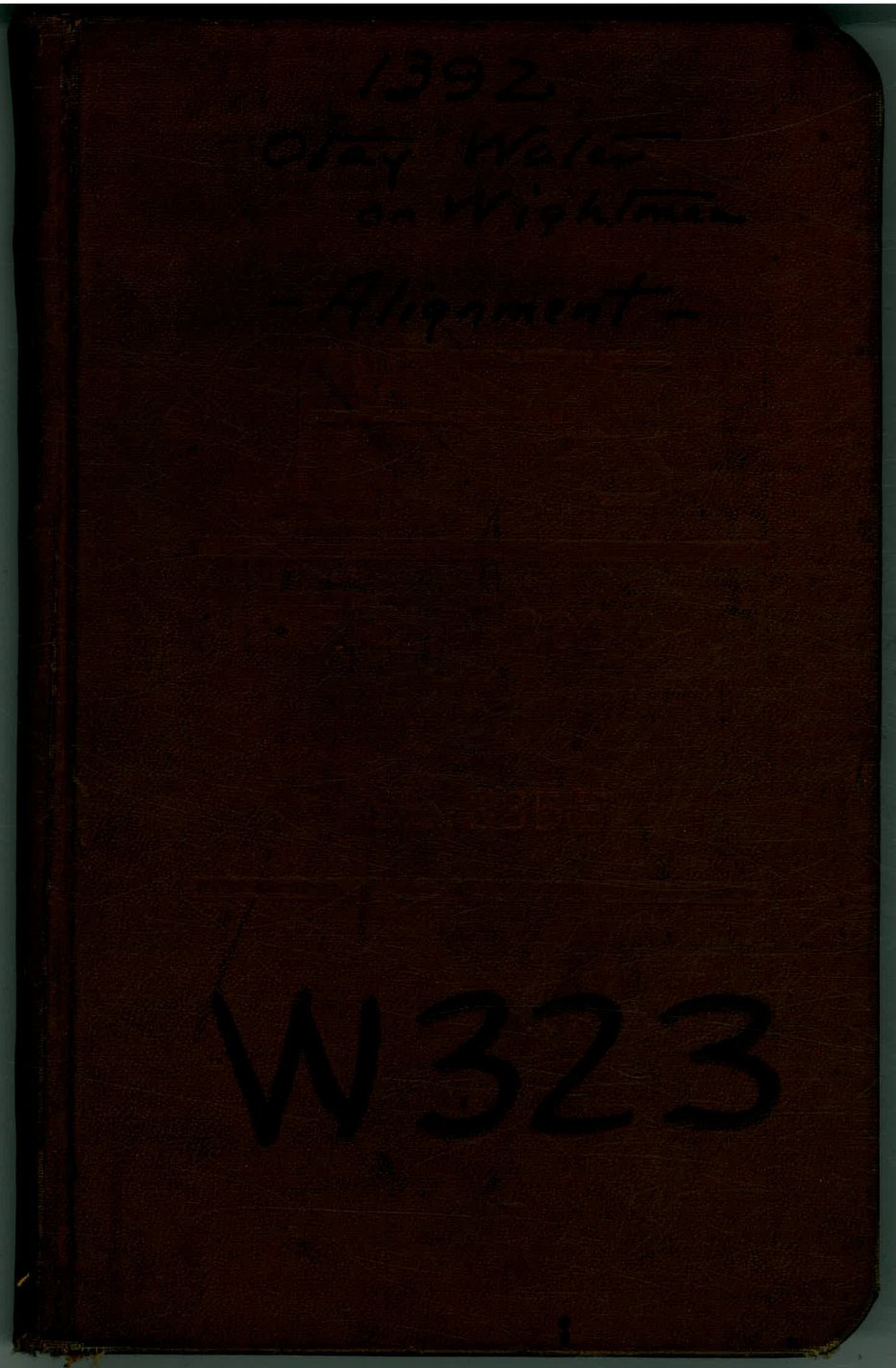

1392
Otay Water
Alignment
W323

Otay Res.- San Diego 2nd M.P.L.
Schedule IV
Construction Field Book

1930

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.

Allignment	Page	1 - 19
Cut stakes	"	21 - 29
fine grades	"	50 - 57

Alignment Schedule A Otay Reservior - San Diego. Second Main Pipe line

3/21/30 Lauden C.o.P.
Dubrmit Inst.
Isbell HH Ch.
Kanagay R. Ch.

855+12.05 = Beginning Schedule A.
+50
+53.45 L. Δ = 33°24' R
856+00
+50
857+00

1

865+00.83

16'

16'

Euclid Ave

N

860+53.01

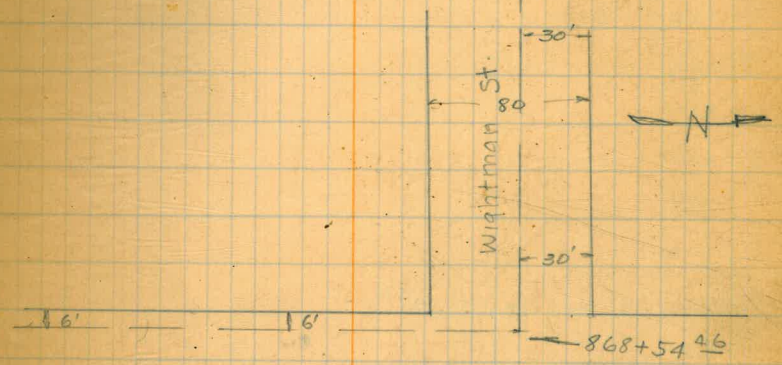
Lantana Dr

Sta 855+50

Sta 855+12.05

857+50
858+00
+50
859+00
+50
860+00
+50
+53.01 L. Δ = 21°43'30" L
861+00
+50
862+00
+50
863+00
+50
864+00
+50
865+00
+00.83 L. Δ = 56°44' R
+50
866+00
+50
867+00
867+50
868+00
868+50

Line continues in Wightman St. in same position to 954+58.89



Euclid Ave

868+54.46 Δ = 89° 58'30" L
869+00
+50
+94 ℄ Alley W of Euclid.
870+00
+50
871+00
+50
872+00
+50
873+00
873+25 ℄ Alley W of 47th St.
+50
874+00
+50
875+00
+50
876+00
+50
+56 ℄ Alley W of Menlo Ave
877+00
+50
878+00
+50
879+00

868 54.46
865 00.83
3 53.63
8.33
12)345.30
28.

4.33
3 00
.63

9.30
6.3
9.93
6.2
.28

879+50

+85 ℄ Alley W. of 46th St.

880+00

+50

881+00

+50 Tied 32^{76} to NE 7'tack - 32^{49} to N.W 7' tack

882+00

+50

883+00

+13^{5} ℄ Alley W of Chammeune

+50

884+00

+50

885+00 Tied 48^{85} to NE 7' tack - 23^{30} to N.W 7' tack 45th St.

+50

886+00

+~~45~~ ℄ Alley W of 45th St.

+50

887+00

+50

888+00 Tied 26^{58} to NE 7'tack - 44^{30} to N.W 7'tack Highland Ave

+50

889+00

+50

+80 ℄ Alley W. of Highland

890+00
+50
891+00
+50 Tied $36\frac{32}{}$ to NE 7' tack - 44th St $29\frac{15}{}$ to N.W. 7' tack
+74.5 W.L. 44th
892+00
892+50
893+00
+10 ℄ Alley W of 44th
+50
894+00
+45 W.L. Fairmount.
+50
895+00 Tied $53\frac{69}{}$ to N.E 7' tack - $23\frac{85}{}$ to N.W. 7' tack Fairmount.
+50
896+00
$ +41 ℄ Alley W. of Fairmount.
+50
897+00
+50
+75 E.L. 43rd
898+00 Tied $29\frac{04}{}$ to N.E 7' tack - $53\frac{42}{}$ to N.W. 7' tack 43rd
898+50
+55 W.L. 43rd
899+00
+50
900+00

900+05 ℄ Alley W. of 43rd
+50
901+00
+50
+54 E.L. Van Dyke
902+00 Tied 44 63/100 to NE 7'tack - 35 96/100 to NW. 7'tack. Van Dyke
+36 W.L. Van Dyke.
+50
903+00
+50
+85 ℄ Alley W of Van Dyke
904+00
+50
905+00
+35 E.L. 42nd.
+50
906+00 Tied 63 13/100 to NE. 7'tack - 24 46/100 to NW. 7'tack 42nd
+15 W.L. 42nd.
+50
907+00
+50
+65 ℄ Alley W of 42nd
908+00
+50
909+00

909+15 E.L. Marlborough

+50 tied 36.95 to NE 7' tack – 43.69 to NW 7' tack Marlborough

+94 W.L. Marlborough

910+00

+50

911+00 ℄

911+45 ℄ Alley W. of Marlborough

911+50

912+00 B.C. Δ = 4°06' L

R = 1005.03

T = 36.00

L = 72.00

+12 0-20-30 12.00

+24 0-41-00 "

+36 1-01-30 "

+48 1-22-00 "

+60 1-42-30 "

+72 E.C. 2-03-00 "

+84 B.C Δ = 8°12' R

R = 1005.03

T = 72.04

L = 144.00

+96 0-20-30

913 +08 0-41-00 "

+20 1-01-30 "

+32 1-22-00 "

+44 1-42-30 "

+56 2-03-00

R.P.P.I 31.52 (N.W.) 31.52 (N.E.) – 19.58 to XS in N cb

P.I. tied 63.15 to NE 7' tack 64.40 to SE 7' tack Alley St.

912+94 = E.L. Alley St.

913+68		2-23-30
+80		2-44-00
+92		3-04-30
914+04		3-25-00
+16		3-45-30
+28	E.C.	4-06-00
+40	B.C.	Δ = 4° 06' L
		R = 1005.03
		T = 36.00
		L = 72.00
+52		0-20-30
+64		0-41-00
+76		1-01-30
+88		1-22-00
915+00		1-42-30
+12	E.C.	2-03-00
+25	℄ Alley W of 41st	
+50		
916+00		
+50		
+74	E.L Central	
917+00	Tied 29.29 to NE 7' tacks 52.35 to N.W.	7' tacks Central.
+50		
+54	= w.l. Central	
918+00		
+50		
919+00		
+04	= ℄ Alley w. of Central	
+50		
920+00		

P.I. Tied (N.E.) 1.6 86 – (N.W.) 30 00 to X's on N eb.

913+78 = w.l. 41st

920+50

+53 EL 40th St

921+00 Tied 45 44 to N.E. 7' tack 34 21 to N.W. 7' tack 40th

+33 W.L. 40th

+50

922+00

+50

+84 ℄ Alley W of 40th

923+00

+50

924+00

+33 EL 39th St.

+50 Tied 24 55 to N.E. 7' tack 60 63 to N.W. 7' tack 39th St.

925+00

+13 5 W.L. 39th

+50

926+00

+50

+63 ℄ Alley W of 39th

927+00

+50

928+00

+13 EL 38th

+50

+93 W.L. 38

929+00

929+50
930+00
+14 ℄ Alley W. of 38th
+50
931+00
+50
+92.5 E.L. 37th
932+00 Tied 23° to NE 7'Jack 69.45 to NW 7'Jack 37th St.
+50
+73 W.L. 37th
933+00
+50
934+00
+23 ℄ Alley W. of 37th
+50
935+00
+50
+72 E.L. Cherrokee
936+00 Tied 30.22 to NE 7'Jack 50.80 to N.W 7'Jack Cherrokee
+50
+52 W.L. Cherrokee
937+00
+50
938+00
+02 ℄ Alley W. of Cherrokee

938+50

939+00

+50

+52 EL 36th St

940+00 Tied 46^{85} to NE 7'tack 34^{42} to NW 7' tack 36th

+32 W.L. 36th

+50

941+00

+50

+82 ℄ Alley W. of 36th

942+00

+50

943+00

+32 E.L Wilson

+50 Tied 25^{32} to N.E. 7'tack 59^{69} to N.W. 7'tack Wilson.

944+00

+12 W.L Wilson

+50

945+00

+50

+62 ℄ Alley W. of Wilson.

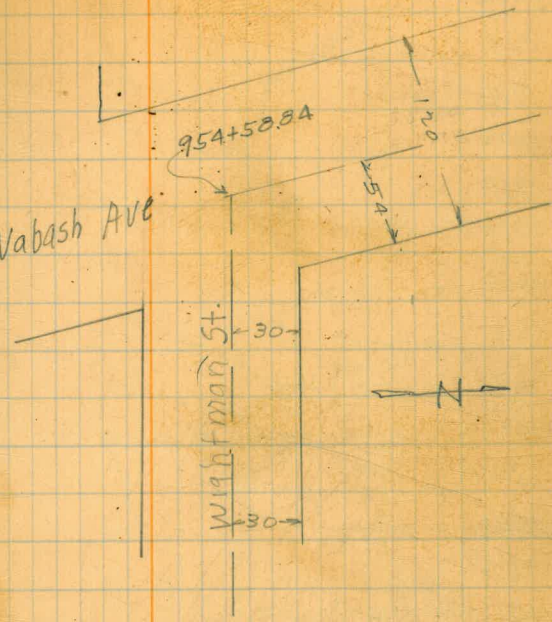
946+00

+50

947+00

+12 E.L 35th

947+50 Tied 55[12] to SW 7'tack 53[19] to S.E. 7'tack 35th.
+92 W.L. 35th
948+00
+50
949+00
+42 ℄Alley W of 35th
+50
950+00
+50
+91[5] E.L. Swift.
951+00
+50 ——Tied 56[19] to NE 7'tack 27[33] to NW. 7'tack Swift.
+72 W.L. Swift.
952+00
+50
953+00
+50
954+00
954+58[84] L. Δ = 73°27' R. RPs 50°° N 50°° E 1x1 Hubs
955+00
+50
956+00
+50
957+00
+50
958+00
+50



959+00

+01 S Paw Univ.

+23 rail

+29 "

+35 "

+41 "

+50

+55 Tel. Cond.

+64 culvert

+68 Lighting cond.

960+00 Tied: 38' N.W. 38' S.W. Nails Paw.

+50

961+00

+50

962+00

+07.97 = 962+38.63 L. in Lincoln

R.P.S. ⊗ on cb 55.85 S.E. - 50.33 N.E.

Δ = 53°06' L

+50

963+00

+56

+94 Sewer Lateral 3' below Paw.

964+00

+50

965+00

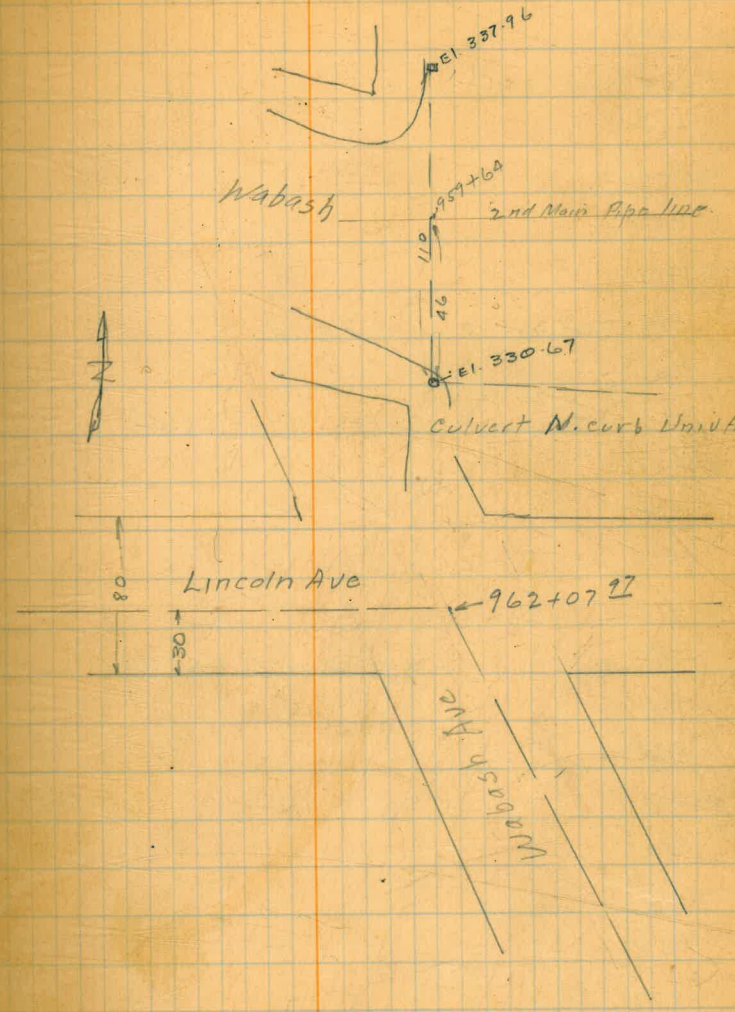
+50

966+00

+38.12 L. = 966+66.53

Δ = 21°11'30" L.

+50



R.P.S. ⊗ on curb 47.43 N.E. 42.83 N.W

966+60 ± E.L 33rd
967+00
+43 = W.L 33rd
+50
968+00
+50
969+00
+14 culvert Alley W of 33rd.
+50
+97 ℄ Big culvert. W of 33rd
970+00
+50
+76 End Pav on Lincoln.
971+00.
+13.03 L. Δ = 72° 25' R
+50
+64 N.L Lincoln
972+00
+50.
973+00
+50
974+00
+50
975+00
+50

R.Ps tacks curb 49.2' SE — 51.78 S.W

976+00

+28 33 L: Δ = 1°40' R

R.P.s ⊗ on curb 87 1/2 S.E. - 41 1/2 N.E.

+50

976+00

+50

977+00

+50

978+00

+05 culvert from s.w. ret Polk

+25 30" W.M. in Polk

+50

+66 culvert from N.W ret Polk

979+00

+50

980+00

+50

981+00

+50

982+00

+19 S Pav Orange St.

+50

983+00

+02 N.L. Orange

+50

984+00

+50

985+00 S.L. Howard

+32 27 L: Δ = 74°02' L

Tied 52 33 to N.W. 7'tack - 40 05 to S.W 7'tack

985+50

+72 W.L. Boundary.

986+00

+50

987+00

+22 ℄ Alley W of 32nd

+50

988+00

+50

+72 E.L. Iowa.

989+00 Tied 31[17] to SE 7'tack

+50

+52 W.L. Iowa.

990+00

+50

991+00

+01 ℄ Alley W. of Iowa.

+50

992+00

+50

+52 E.L. Illinois.

993+00 Tied 47[35] to SE 7'tack 33[54] to SW. 7'tack Illinois.

+32 W.L. Illinois

+50

994+00

994+50

+82 ℄ Alley w. of Illinois

995+00

+50

996+00

+32 E.L. Ohio

+50 Tied 25^{59} to S.E. 7'tack 44^{59} to N.E. 7'tack Ohio.

997+00

+12 W.L. Ohio.

+50

998+00

+50

+62 ℄ Alley W. of Ohio.

999+00

+50

1000+00

+13 E.L. 30th

+50 Tied 38^{57} to S.E. 7'tack 53^{68} to N.E. 7'tack 30th

1001+00

+50

1002+00

+42 ℄ Alley W of 30th

+50

1003+00

+50

+11 E.L. Kansas

1004+00

+50 Tied. 56[71] to S.E. T'tack 26[63] to S.W. T'tack Kansas

1005+00

+50

1006+00

+21 ℄ Alley W. of Kansas.

+50

1007+00

+50

+71 E.L. Utah.

1008+00 Tied 31[24] to S.E. T'tack 49[21] to S.W. T'tack. Utah

+50

+51 W.L. Utah.

1009+00

+50

1010+00

1010+01 ℄ Alley W of Utah.

+26 BC $\Delta = 2^{\circ}44'$ R

R = 1005.03

T = 24.00

L = 48.00

1010+38 0-20-30 12.00

+50 0-41-00 "

+62 1-01-30 "

+74 E.C. 1-22-00 "

Pl. R.P.s x's in South curb Howard. 25'

1011+10 B.C Δ = 2°44' L
R = 1005.03
T = 24.00
L = 48.00

1011+22 0-20-30 12.00
+34 0-41-00 "
+46 1-01-30 "
+51 E.L Idaho
+58 E.C. 1-22-00 "

1012+00
+51.18 ℄ Lakeside line.

1013+10.86 L. Δ = 22°30' R
+42.26 ℄ Filter riser.

P.I R.P.s. "X" s in South curb 25'

Tied 25.00 S.W. & S.E.

Cut Stakes Schedule 4

Sta	346.09	El.	Grade	Cut	
					340.46 BM.
					5.63
					346.09 H.I.
855+12.5	7.6	338.5	330.58	7.9 ✓	
L: +53.45	7.1	339.0	330.67	8.3 ✓	340.46 BM.
					3.65
856+00	6.5	339.6	330.77	8.8 ✓	344.11 HI
+50	6.1	340.0	330.88	9.1 ✓	
857+00	6.0	340.1	330.99	9.1 ✓	
+50	5.7	340.4	331.10	9.3 ✓	
858+00	5.6	340.5	331.21	9.3 ✓	
+50	5.5	340.6	331.32	9.3 ✓	
859+00	5.4	340.7	331.43	9.3 ✓	
+50	5.3	340.8	331.54	9.3 ✓	
860+00	5.1	341.0	331.65	9.4 ✓	
L: +53.01	5.2	340.9	331.77	9.1 ✓	
Brk +60	5.1	341.0	331.80	9.2 ✓	
861+00	4.8	341.3	331.92	9.4 ✓	
+50	4.7	341.4	332.07	9.3 ✓	
862+00	4.6	341.5	332.22	9.3 ✓	
+50	4.7	341.4	332.37	9.0 ✓	
863+00	4.8	341.3	332.52	8.8 ✓	
+50	4.8	341.3	332.67	8.6 ✓	
864+00	4.8	341.3	332.82	8.5 ✓	
	344.11				
+50			332.97		
Brk +60	3.5	340.6	333.00	7.6	
865+00	3.5	340.6	333.60	7.0 ✓	
Brk +40	4.1	340.0	334.20	5.8 ✓	

Otay Pipe Line

21

Sta	344.11	El.	Grade	Cut	
					344.11 HI.
					4.64
					339.47 BM. TP
865+50			334.25		
	4.9				339.66 BM.
					5.46
866+00		339.2	334.50	4.7 ✓	345.12 HI
					0.81
+50	4.9	339.2	334.75	4.4	344.31 TP
Brk			334.70		5.39
+60	4.9	339.2	334.80	4.4	349.70 HI
867+00	4.8	339.3	334.72	4.6	
+50	4.3	339.8	334.62	5.2	
868+00	3.5	340.6	334.52	6.1	344.84 BM. 46
					5.63
+50	345.12		334.41	5.3	350.49 HI
			334.60		
L: +54.46	5.4	339.7	334.40		
869+00	4.5	340.6	334.55	6.0	
+50	4.4	340.7	334.72	6.0 ✓	
870+00	4.3	340.8	334.89	5.9 ✓	
+50	4.2	340.9	335.06	5.8 ✓	
871+00	4.1	341.0	335.23	5.8 ✓	
B.V.C.		350.49 HI.			
+60	8.8	341.7	335.43	6.3 ✓	
Brk.					
+80	8.7	341.8	335.68	6.1 ✓	
+96.	8.3	342.2	335.94	6.3 ✓	
872+50	6.5	344.0	337.45	6.5 ✓	
B.V.C.					
873+16	4.5	346.0	339.33	6.7 ✓	
+40	4.4	346.1	339.65	6.4 ✓	
E.V.C.					
+64.	4.8	345.7	339.30	6.4 ✓	
874+00	5.6	344.9	338.25	6.6 ✓	
+60 Brk	7.22	343.3	336.50	6.8 ✓	

Sta	349.70	El.	Grade	Cut	
875+00	7.8	341.9	335.84	6.1 ✓	349.70 HI. 10.05 — 339.65 BM.
+50	7.3	342.4	335.02	7.4 ✓	
876+00	7.1	342.6	334.19	8.4 ✓	344.84 B.M. 7.03 — 351.87 HI. 4.68 — 347.19 TP. 8.02 — 355.21 HI.
+50			333.37		
Brk. +60	7.1	342.6	333.20	9.4 ✓	
877+00	6.9	342.8	333.53	9.3 ✓	
+50	351.87 HI. 8.9	343.0	333.94	9.1 ✓	
878+00	8.6	343.3	334.35	8.9 ✓	
+50	8.0	343.9	334.76	9.1 ✓	
879+00	7.0	344.9	335.17	9.7 ✓	
+50	6.0	345.9	335.58	10.3 ✓	
Brk. 880+00	5.1	346.8	336.00	10.8 ✓	
+50	4.6	347.3	336.08	11.2 ✓	
881+00	4.4	347.5	336.16	11.3 ✓	
+50	4.6	347.3	336.24	11.1 ✓	
882+00	3.8	348.1	336.32	11.8 ✓	
+50	3.9	348.0	336.40	11.6 ✓	
883+00			336.48		
Brk. +10	4.2	347.7	336.50	11.2 ✓	
+50	4.2	347.7	336.68	11.0 ✓	
884+00	4.2	347.7	336.90	10.8 ✓	
+50	4.68	347.19	337.13	10.1 ✓	
885+00	355.21 8.5	346.7	337.35	9.3 ✓	
+50	7.1	348.1	337.58	10.5 ✓	
886+00	6.5	348.7	337.81	10.9 ✓	
Brk +40	6.0	349.2	338.00	11.2 ✓	

Sta	Rod	Elev	Grade	Cut	
	355.21				22
887+00	5.6	349.6	338.94	10.7 ✓	353.21 HI. 7.22 — 353.99 TP. 5.98 — 359.97 HI. 4.38 — 355.39 BM. Fairmount
+50	4.9	350.3	339.72	10.6 ✓	
888+00 Brk	4.8	350.4	340.50	9.9 ✓	
+50	3.9	351.3	342.03	9.3 ✓	
889+00	3.5	351.7	343.56	8.1 ✓	
+50	3.0	352.2	345.09	7.1 ✓	
+80 Brk	2.5	352.7	346.00	6.7 ✓	
890+00	2.3	352.9	346.12	6.8 ✓	
+50	1.7	353.5	346.41	7.1 ✓	
891+00	1.22	353.99	346.71	7.3 ✓	
	359.97				
+50	5.6	354.4	347.00	7.4 ✓	Pavement 14½ ft.
892+00	5.1	354.9	347.30	7.6 ✓	
+50	4.9	355.1	347.59	7.5 ✓	
893+00	4.9	355.1	347.88	7.2 ✓	BM.
+20 Brk	4.8	355.2	348.00	7.2 ✓	355.39 2.58 — 357.97
+50	4.8	355.2	347.63	7.6 ✓	
894+00	4.8	355.2	347.01	8.2 ✓	
+50	4.7	355.3	346.38	8.9 ✓	
895+00	4.9	355.1	345.76	9.3 ✓	
+50	357.97 3.1	354.9	345.13	9.8 ✓	
896+00	3.2	354.8	344.51	10.3 ✓	
Brk. +40	3.5	354.5	344.00	10.5 ✓	896+50 3" Blow off
897+00	3.7	354.3	344.50	9.8	
+50	3.9	354.1	344.92	9.2	
898+00	4.6	353.4	345.34	8.1	

Sta	Rod	Elev.	Grade Elev.	Cut.
	357.97			
898+50	5.0	353.0	345.75	7.8
899+00	4.4	353.6	346.17	7.4
+50	4.1	353.9	346.58	7.3
900+00 Brk.	3.7	354.3	347.00	7.3
+50	3.5	354.5	347.07	7.4
901+00	3.4	354.6	347.13	7.5
+50	3.5	354.5	347.20	7.3
902+00	3.5	354.5	347.26	7.2
+50	3.6	354.4	347.32	7.1
	356.80			
903+00	2.7	354.1	347.38	6.7
+50	2.9	353.9	347.44	6.5
904+00 Brk	2.9	353.9	347.50	6.4
+50	3.2	353.6	346.88	6.7
905+00	3.5	353.3	346.25	7.0
+50	4.8	352.0	345.63	6.4
906+00 Brk	5.1	351.7	345.00	6.7
+50	5.0	351.8	343.60	8.2
907+00	6.0	350.8	342.19	8.6
+60 Brk	6.8	350.0	340.50	9.5
908+00	7.3	349.5	340.42	9.1
+50	8.3	348.5	340.32	8.2
909+00	9.0	347.8	340.21	7.6
	349.72			
+50	2.4	347.3	340.11	7.2
B.V.C. +82	2.6	347.1	340.04	7.1
+94	2.8	346.9	339.95	7.0
910+06	3.1	346.6	339.72	6.9

357.97 HI
3.75
354.197
2.61
356.80 HI
9.63
347.17 BM.
347.16
0.01 ✓

Weightman & Marlb.
BM. 347.16
2.56
349.72
-12.46
337.26
-5.53
342.79
7.27
335.50
335.50
0.00
weight. ± 416 lbs.

Sta	Rod	Elev.	Grade Elev.	Cut.
	349.72			
B.V.C. 910+18	3.7	346.0	339.35	6.7
+50	5.1	344.6	338.20	6.4
911+00	6.9	342.8	336.39	6.4
+48	8.3	341.4	334.65	6.8
912+00	10.4	339.3	332.78	6.5
+48	12.5	337.2	331.18	6.0
	342.77			
+96	6.8	336.0	329.17	6.8
913+24 P.V.C.	6.7	336.1	328.30	7.8
+36	6.8	336.0	327.93	8.1
+48	6.9	335.9	327.67	8.2
+60	7.1	335.7	327.54	8.2
+72	7.1	335.7	327.53	8.2
+84	6.8	336.0	327.64	8.4
+96 E.V.C.	6.5	336.3	327.85	8.5
914+40	5.4	337.4	328.88	8.5
E.C. +88				
915+12	3.8	339.0	330.58	8.4
	347.39			
+50	7.5	339.9	331.47	8.4
916+00	6.4	341.0	332.65	8.4
+50	5.1	342.3	333.82	8.5
B.V.C. +82	5.1	342.3	334.58	7.7
	359.75	Grade stakes Railroad.		
897+00	2.0	357.7	344.5	13.2
+50	4.1	355.6	344.9	10.7
898+00	6.4	353.3	345.3	8.0
+50	6.8	352.9	345.7	7.2
899+00	4.7	355.0	346.2	8.8
+50	5.9	353.8	346.6	7.2
900+00	5.5	354.2	347.0	7.2

353.66
6.09
359.75

40th McCardle B.M.

343.59
3.80
347.39

	347.39	El	Grade	Cut	B.M
916+94	5.0	342.4	334.81	7.6	343.59
917+06	4.5	342.9	334.92	8.0	5.80
917+18 E.V.C.	4.4	343.0	334.92	8.1	347.39
+50	4.5	342.9	334.77	8.1	-7.44
918+00	4.1	343.3	334.56	8.7	339.97
+50	4.3	343.1	334.35	8.8	+0.25
919+00	4.5	342.9	334.15	8.7	340.22
+50	4.7	342.6	333.94	8.7	-12.61
920+00	4.9	342.5	333.74	8.8	327.61
+50	4.9	342.5	333.53	9.0	+1.24
921+00	4.7	342.7	333.32	9.4	328.85
+50	4.7	342.7	333.12	9.6	9.16
922+00	5.3	342.1	332.91	9.7	319.69
+50	5.9	341.5	332.71	8.8	B.M
+80 B.V.C.	6.2	341.2	332.50	8.7 ✓	38 H
923+00	6.4	341.0	332.29	8.7 ✓	
+50	6.9	340.5	331.77	8.7 ✓	
924+00	7.4	340.0	331.25	8.8 ✓	
+50	340.22 .08	339.4	330.73	8.7 ✓	
+90 E.V.C.	1.3	338.9	330.31	8.6 ✓	
925+02	1.5	338.7	330.12	8.6 ✓	
+14	1.8	338.4	329.83	8.6 ✓	
+26	2.5	337.7	329.41	8.3 ✓	
+38	3.2	337.0	328.89	8.1 ✓	
+50 E.V.C.	4.0	336.2	328.25	8.0 ✓	

	340.22	El.	Grade		
926+00	7.2	333.0	325.34	7.7	
+50	10.4	329.8	322.43	7.4	
927+00	328.85 2.2	326.6	319.52	7.1	
+50	5.8	323.0	316.61	6.4	
928+00	8.4	320.4	314.66	5.7	
+32 E.V.C.	9.4	319.4	313.60	5.8	
+44	9.3	319.5	313.27	6.2	
+56	9.3	319.5	313.09	6.4	
+68	9.6	319.2	313.04	6.2	
+80	9.8	319.0	313.15	5.9	
+92	9.3	319.5	313.40	6.1	
929+04	8.7	320.1	313.79	6.3	
+16	7.9	320.9	314.30	6.6	
+28 E.V.C.	7.1	321.7	315.00	6.7	
+50	5.6	323.2	316.37	6.8	338.81
930+00	339.07 12.5	326.6	319.49	7.1	0.26
+50	9.4	329.7	322.61	7.1	339.07
931+00	6.3	332.8	325.73	7.1	
+50	3.4	335.7	328.89	6.8	
E.V.C. +70	2.1	337.0	330.13	6.9	
+82	1.3	337.8	330.81	7.0	
+94	0.9	338.2	331.35	6.9	
932+06	0.8	338.3	331.75	6.6	
+18	0.7	338.4	332.02	6.4	
E.V.C. +30	0.6	338.5	332.13	6.4	

	339.07				339.07 HI
932+50	0.5	338.6	332.22	6.4	0.50
	348.03				338.57 TP
933+00	8.7	339.3	332.45	6.9	9.46
					348.03
+50	7.7	340.3	332.67	7.6	0.04
B.V.C.					347.99 TP
+90	6.6	341.4	332.87	8.5	4.78
					352.77 HI
934+02	6.4	341.6	332.99	8.6	
+14	6.1	341.9	333.25	8.7	
+26	5.8	342.2	333.63	8.6	
+38	5.6	342.4	334.16	8.2	
E.V.C.					
+50	5.4	342.6	334.80	7.8	
B.V.C.					
+90	4.3	343.7	337.20	6.5	
935+02	4.0	344.0	337.85	6.2	
+14	3.8	344.2	338.36	5.8	
+26	3.5	344.5	338.73	5.8	
+38	3.1	344.9	338.96	5.9	
E.V.C.					
+50	2.8	345.2	339.05	6.2	
936+00	1.7	346.3	339.13	7.2	
+50	1.9	346.1	339.22	6.9	
	352.77				
937+00	6.0	346.8	339.30	7.5	
+50	6.1	346.7	339.40	7.3	
Brk.					
938+00	5.6	347.2	339.50	7.7	
+50	5.6	347.2	339.66	7.5	
939+00	5.2	347.6	339.82	7.8	
+50	5.0	347.8	339.98	7.8	
940+00	5.1	347.7	340.14	7.6	
+50	5.1	347.7	340.30	7.4	

	352.77				352.77 HI.
941+00	4.9	347.9	340.46	-7.4	4.17
					348.60 TP
+50	4.6	348.2	340.62	-7.6	5.84
					354.44 HI
942+00	4.6	348.2	340.76	-7.4	3.68
					350.76 BM.
+50	4.3	348.5	340.91	-7.6	350.74 BM
					0.02 ←
943+00	4.2	348.6	341.07	-7.5	Wilson ←
	354.44				
+50	6.2	348.2	341.22	-7.0	
944+00	5.8	348.6	341.37	-7.2	
+50	4.7	349.7	341.53	-8.2	B.M 350.74
					575
945+00	4.2	350.2	341.69	-8.5	356.49
	356.49			9.0	
+50	5.7	350.8	341.85	-8.0	
B.V.C.					
+70	5.4	351.1	341.91	-9.2	
+82	5.2	351.3	342.01	-9.3	
94	4.8	351.7	342.20	-9.5	
946+06	4.7	351.8	342.36	-9.4	
+18	4.6	351.9	342.99	-8.9	
E.V.C.					
+30	4.5	352.0	343.50	-8.5	
B.V.C.					
+70	4.3	352.2	345.50	-6.7	
+82	4.1	352.4	346.03	-6.4	
+94	4.0	352.5	346.42	-6.1	
947+06	3.8	352.7	346.65	-6.0	
+18	3.8	352.7	346.75	-6.0	
E.V.C.					
+30	3.8	352.7	346.70	-6.0	
	4.1	352.4			

		El.	grade		
B.V.C	356.49				356.49
947+70	4.1	352.4	346.30	-6.1	9.64
+82	4.1	352.4	346.11	-6.3	346.85
+90	4.3	352.2	345.78	-6.4	1.65
948+06	4.9	351.6	345.31	-6.3	348.50
+18	5.5	351.0	344.70	-6.3	8.50
E.V.C					B.M 340.00
+30	6.1	350.4	343.97	-6.4	Hard swift.
+50	7.2	349.3	342.61	-6.7	
949+00	9.6	346.9	339.22	-7.7	
B.V.C	348.50				swift
+16	2.3	346.2	338.13	-8.1	B.M
+28	2.8	345.7	337.38	-8.3	2.84
+40	3.3	345.2	336.75	-8.5	337.36
+52	3.8	344.7	336.23	-8.5	340.20
E.V.C					13.09
+64	4.3	344.2	335.81	-8.4	327.11
950+00	5.9	342.6	334.79	-7.8	0.26
+50	8.4	340.1	333.35	-6.8 ✓	327.37 HI
951+00	11.1	337.4	331.90	-5.5 ✓	
	340.20				
+50	3.2	337.0	330.46	-6.5 ✓	
B.V.C					
+70	3.6	336.6	329.87	-6.7 ✓	
+82	4.0	336.2	329.48	-6.7 ✓	
+94	4.7	335.5	328.97	-6.5 ✓	
952+06	5.6	334.6	328.37	-6.2 ✓	
+18	6.6	333.6	327.65	-6.0 ✓	
E.V.C					
+30	8.0	332.2	326.81	-5.4 ✓	
+50	9.5	330.7	325.35	-5.4 ✓	

		El.	Grade	Cut.	
	340.20				
953+00	13.1	327.1	321.70	5.4 ✓	
	327.37				327.37
+50	3.8	323.6	318.05	5.5 ✓	6.00
954+00	7.3	320.1	314.40	5.7 ✓	321.37
B.V.C					13.05
+22	10.1	317.3	312.78	4.5 ✓	334.42
+34	10.0	317.4	312.00	5.4 ✓	18
+46	10.3	317.1	311.42	5.7 ✓	334.24
+58	11.0	316.4	311.03	5.4 ✓	
+70	9.6	317.8	310.85	7.0 ✓	
+82	9.1	318.3	310.86	7.4 ✓	
+94	7.5	319.9	311.07	8.8 ✓	
955+06	6.8	320.6	311.48	9.1 ✓	334.25
E.V.C	334.42				5.10
+18	13.0	321.4	312.12	9.3 ✓	339.38
+50	12.7	321.7	314.02	7.7 ✓	1.01
Brk.					338.37 TP
956+00	10.5	323.9	317.00	6.9 ✓	10.64
+50	9.1	325.3	318.66	6.6 ✓	349.01 HI
957+00	7.1	327.3	320.32	7.0 ✓	
+50	6.0	328.4	321.98	-6.4 ✓	
958+00	4.5	329.9	323.65	-6.3 ✓	
+50	2.8	331.6	325.32	6.3 ✓	
Brk.					
959+00	0.8	333.6	327.00	6.6 ✓	
	339.38				
+50	4.1	335.3	327.83	7.5 ✓	
B.V.C					
+96	2.0	337.4	328.60	8.8 ✓	
960+20	1.0	338.4	329.25	9.2 ✓	
E.V.C.	349.01				
+44	9.9	339.1	330.40	8.7 ✓	
961+00	8.0	341.0	333.66	7.3 ✓	

349.01

PVC 961+16	7.5	341.5	334.60	6.9
+40	6.6	342.4	335.77	6.6
EVC +64	5.8	343.2	336.48	6.7
962+00	5.2	343.8	337.20	6.6
PVC +16	5.2	343.8	337.52	6.3
+40	5.5	343.5	337.76	5.7
EVC +64	5.5	343.5	337.50	6.0
963+00	6.0	343.0	336.75	6.3
+50	6.5	342.5	335.71	6.8
964+00	7.0	342.0	334.67	7.3
+50	7.6	341.4	333.63	7.8
344.25 +80 Brk	3.3	340.9	338.00	7.9
965+00	3.5	340.7	332.98	7.7
+50	4.0	340.2	332.93	7.3
966+00	4.7	339.5	332.87	6.6
+38 12 L	5.0	339.2	332.83	6.4
+60 Brk	5.1	339.1	332.80	6.3
967+00	5.8	338.4	332.29	6.1
+50	7.2	337.0	331.65	5.4
968+00 Brk	7.6	336.6	331.00	5.6
+50	7.8	336.4	329.34	7.1
PVC +84	8.0	336.2	328.20	8.0
+96	8.1	336.1	327.88	8.2
969+08	8.2	336.0	327.71	8.3
+20	8.2	336.0	327.69	8.3
+32	8.1	336.1	327.83	8.3

349.01
7.39
341.42 TP
2.83
344.25 HI
6.06
338.19 BM

344.25

969+44	8.0	336.2	328.12	8.1
+56 EVC	7.9	336.3	328.60	7.7
348.20 970+00	10.8	337.4	330.55	6.8
+50	8.6	339.6	332.77	6.8
PVC +70	7.7	340.5	333.67	6.8
+82	7.3	340.9	334.15	6.8
+94	7.2	341.0	334.52	6.5
971+06	6.9	341.3	334.80	6.5
+18	6.5	341.7	334.97	6.7
EVC +30	6.4	341.8	335.04	6.8
+50	6.5	341.7	335.07	6.6
972+00	5.7	342.5	335.14	7.4
+50	5.4	342.8	335.21	7.6
973+00	5.0	343.2	335.28	7.9
+50	4.9	343.3	335.35	8.0
974+00	3.9	344.3	335.42	8.9
+50	3.5	344.7	335.49	9.2
975+00	3.2	345.0	335.51	9.4
+50	2.8	345.4	335.63	9.8
350.06 976+00	4.6	345.5	335.70	9.8
L +28 25	5.0	345.1	335.74	9.4
+50	5.0	345.1	335.77	9.3
977+00	4.6	345.5	335.84	9.7
351.75 +50	5.9	345.8	335.91	9.9
BVC +90	5.8	345.9	335.96	9.9

338.78 BM
9.42
348.20 HI
3.67
344.53 TP
5.53
350.06 HI
3.19
346.87 Hydrant SE Polk Bancroft
346.87 BM
4.88
351.75 HI

	351.75				351.75 HI	
978+02	5.7	346.0	336.00	√ 10.0	-1.11	
+14	5.4	346.3	336.04	√ 10.3	350.64 TP	
+26	5.2	346.5	336.10	√ 10.4	12 TP	
+38	5.2	346.5	336.20	√ 10.3	363.52 HI	
EVC +50	5.2	346.5	336.40	√ 10.1	1.07	
979+00	4.6	347.1	340.00	√ 7.1	362.43 TP	
+50	2.9	348.8	342.50	√ 6.3	9.14	
Brk 980+00	1.1	350.6	345.00	√ 5.6	371.57 HI	
	363.52				2.06	
+50	11.2	352.3	346.59	√ 5.7	369.51 BM.	
981+00	9.4	354.1	348.19	√ 5.9	32 - Howard	
+50	7.7	355.8	349.78	√ 6.0	371.57 HI	
982+00	5.8	357.7	351.38	√ 6.3	11.38	
+50	4.3	359.2	352.97	√ 6.2	359.99 BM	
983+00	2.6	360.9	354.57	√ 6.3	360.00	
+50	1.1	362.4	356.17	√ 6.2	0.01 √	
	371.57				BM. Orange	
984+00	7.4	364.2	357.76	√ 6.4	Boundry	
+50	5.7	365.9	359.36	√ 6.5		
PVC +96 77	4.2	367.4	360.85	√ 6.6		
985+03 77	3.9	367.7	361.17	√ 6.5		
+20 77	3.7	367.9	361.38	√ 6.5		
+32 77 L.	3.6	368.0	361.47	√ 6.5		
+44 77	3.7	367.9	361.44	√ 6.5		
+56 77	4.1	367.5	361.30	√ 6.2		
EVC +68 77	4.0	367.6	361.06	√ 6.5		

	371.26		El	Grade	
986+00	4.6	366.7	360.25	6.4	B.M. Hyd. Sub Bronk. 2 Howard 369.51
+50	6.0	365.3	358.96	6.3	1.75
987+00	7.4	363.9	357.67	6.2	371.26
+50	8.8	362.5	356.38	6.1	11.07
988+00	10.0	361.3	355.09	6.2	360.19
+50	11.1	360.2	353.80	6.4	5.40
EVC +82	365.59 6.0	359.6	352.97	√ 6.6	365.59
+94	6.0	359.6	352.72	√ 6.9	1.27
989+06	6.0	359.6	352.59	√ 7.0	364.32
EVC HB	6.2	359.4	352.57	√ 6.8	7.60
+50	6.8	358.8	352.70	√ 6.1	371.96
990+00	6.4	359.2	352.90	√ 6.3	
+50	6.1	359.5	353.10	√ 6.4	
991+00	6.0	359.6	353.30	√ 6.3	
+50	5.6	360.0	353.50	√ 6.5	
992+00	5.4	360.2	353.70	√ 6.5	
+30	4.9	360.7	353.90	√ 6.8	
+80	4.8	360.8	354.00	√ 6.8	
993+00	4.7	360.9	354.33	√ 6.6	
+50	4.1	361.5	355.16	√ 6.3	
994+00	3.7	361.9	355.99	√ 5.9	
Brk +60	3.1	362.5	357.00	√ 5.5	
995+00	2.8	362.8	357.05	√ 5.8	
+50	2.3	363.3	357.10	√ 6.2	
996+00	1.7	363.9	357.15	√ 6.8	
Brk +60	1.3	364.3	357.20	√ 7.1	

997+00	372.0 7.6	364.4	357.43	7.0	371.96 2.88	
+50	7.1	364.9	357.71	7.2	369.08	
998+00 Brk.	6.7	365.3	358.00	7.3	BM Hyd SE Howard x 30	
+50	6.3	365.7	358.21	7.5		
999+00	6.0	366.0	358.41	7.6		
+50	5.6	366.4	358.62	7.8		
1000+00	5.2	366.8	358.83	8.0		
Brk +40	4.9	367.1	359.00	8.1		
1001+00	4.7	367.3	360.57	6.7		
+50	4.3	367.7	361.88	5.8		
Brk 1002+00	3.9	368.1	363.20	✓ 4.9		
+50	3.5	368.5	363.20	5.3	B.M. Hyd Howard 2 Kas. 372.41 3.77	
1003+00	3.1	368.9	363.20	5.7	376.18 2.75	
+50	2.7	369.3	363.20	6.1	373.43	
1004+00	376.18 6.3	369.9	363.20	6.7	4.96 378.39	
Brk +20	5.9	370.3	363.20	7.1	376.18	
+50	5.8	370.4	363.70	6.7	7.72	
1005+00	5.7	370.5	364.53	6.0	Gas - 368.46	
+50	5.2	371.0	365.35	✓ 5.6		
1006+00	4.8	371.4	366.17	5.2		
Brk +20	4.6	371.6	366.5	5.1		
+50	4.4	371.8	366.42	5.4		
1007+00	3.9	372.3	366.28	6.0		
+50	3.5	372.7	366.14	6.6		
Brk. 1008+00	2.8	373.4	366.00	7.4		
+50	378.39 4.4	374.0	365.63	8.4		

	378.39					
1009+00 Brk.	4.9	373.5	365.25	8.3		
+50 Brk.	4.9	373.5	364.88	8.6		
1010+00	5.2	373.2	364.50	8.7		
+26 B.C.	5.2	373.2	364.41	8.8		
+50	5.3	373.1	364.33	8.8	378.37 Gas - 7.40	
+74 E.C.	5.4	373.0	364.24	8.8		
1011+10 B.C.	5.5	372.9	364.11	8.8	378.39 5.37	
+34	5.6	372.8	364.03	8.8	373.02	
+58 E.C.	5.9	372.5	363.82	8.7		
1012+00	379.08 6.5	372.6	363.40	9.2	B.M. 373.01 6.07	
Brk +20	5.8	373.3	363.20	10.1	379.08	
Brk +60	3.7	375.4	363.20	12.2		
1013+10 86 L.	4.1	375.0	368.14	6.9		
+42 26	3.7	375.4	371.20	4.2		

	351.31			
978+62	4.9	346.4	336.60	9.8
+74	4.7	346.6	337.10	9.5
+86	4.4	346.9	337.65	9.3
+98	4.1	347.2	338.60	8.6
979+10	3.7	347.6	339.60	8.0
+22	3.4	347.9	340.50	7.4
+34	3.0	348.3	341.40	6.9
+46	2.6	348.7	342.30	6.4

	+	H.I.	−	Grade Elev. 340.46 BM. Euclid Lantana
Sta. of Brks.	5.68	346.14		
	2.82	336.40	12.56	333.58
860+53.0 P.I.			4.63	
856+06.23 Brk.			5.62	330.78
	12.26	443.04		
855+53.45 P.I.			12.37	330.67
+12.05 Start of line		Flange	12.46	330.58
853+32.75			12.41	330.63
	4.70	345.16		340.46 BM
865+80.83 P.I.			11.55	333.61
	4.96	338.57		
864+60 Brk.			5.57	333.00
865+40 Brk.			4.37	334.20
	4.70	345.16		340.46 BM.
866+60			10.46	334.70
868+54.46 P.I.			10.56	334.60
	4.90	344.56		339.66 BM. Wlightman Euclid
868+57.46 P.I.			9.96	334.60
	6.83	346.49		339.66 BM.
871+60 PVC.			11.06	335.43
+72			10.89	335.60
+84			10.72	335.77
+96 EVC. TP			10.55	335.94
	7.73	343.67		
873+16 PVC.			4.34	339.33
+28				
+40			4.02	339.65

340 46
5.68
346.14
12.56
333.58
2.82
336.40
3.17
4.63

4.96
6
5.57

874+60 339.66
873+64 6.83
346.49
1.96

Sta. + H.I. − Elev
343.67

873+52
+64 Evc. 4.37 339.30

874+60 Brk. 7.17 336.50

876+60 Brk. 10.47 333.20

346.27
13.07
348.40
4.74 2.61 343.66

BM 3.58 344.82 - 344.54 BM

343.81 H.I.
12.33 330.78 - Sta. 856+06

855+53.45 12.44 330.67 F. 1.0 Reset.

855+12.05 Flange 12.53 330.58 F. 1.0 "

873+16 1.86 341.19 339.33
+28 1.61 339.58
+40 1.54 339.65
+52 1.61 339.58
+64 EVC 1.89 339.30

	+	HI	−		
					BM. 348.00
	4.20	352.20			
00 TP.	0.71	341.49	11.44	340.76	
880+00 Brk.			5.47	336.00	
880+10 Brk.			4.97	336.50	
882+90			5.00	336.47	
	5.00	345.46		340.46	BM. Euclid Lantana 5-12-30
865+00 83			11.85	333.61	Reset
	4.72	345.18		340.46	BM.
860+53 01			13.27	331.91	C-1 60
864+60 Brk.	4.99	337.99		333.00	Brk
865+00 83 Pl.	3.79	344.25	4.38	333.61	Reset 5-13-31
				340.46	BM.
865+40 Brk			10.05	334.20	
866+60 Brk			9.55	334.70	
868+54 46 Pl.	5.40	340.00	9.65	334.60	
871+60 BVC	5.64	341.07	4.57	335.43	
+72			5.47	335.60	
+84			5.30	335.77	
+96 BVC			5.13	335.94	
873+16 BVC.			1.74	339.33	
+28			1.49	339.58	
+40			1.42	339.65	
+52			1.49	339.58	
+64			1.77	339.30	
874+60			4.57	336.50	
876+60			7.87	333.20	
TP	6.26	340.26	7.07	334.00	

				340.26	
880+00 Brk	5.48	341.48		4.26	336.00
883+10 Brk				4.98	336.50
Wightman & 5th					
B M					
	6.48	353.91			347.43
TP	1.42	344.25		11.08	342.83
Brk 886+40				6.25	338.00
Brk 888+00	7.94	348.44		3.75	340.50
Brk 889+80	6.65	352.65		1.44	346.00
Brk 893+20	2.96	350.96		4.65	348.00
Brk 896+40				6.96	344.00
B.M.	3.63	359.02			355.39
Brk 896+40				15.02	344.00
B.M.	4.71	359.68			354.97
893+20				11.68	348.00

Wightman & VanDyke

B.M	4.11	358.84		354.73
Brk 900+00			11.84	347.00
Brk 904+00			11.34	347.50
B.M	3.59	356.24		352.65
Brk 906+00			11.24	345.00
B.M	1.89	354.54		352.65
907+30			13.20	341.34
B.M	3.60	350.76		347.16
909+84	B.V.C		10.72	340.04
+96			10.82	339.94
910+08			11.05	339.71
+20	E.V.C		11.37	339.39
B.M	5.42	340.92		335.50
913+20	B.V.C		12.30	328.62
B.M.	4.35	339.85		335.50
913+32			11.69	328.16
+44			11.99	327.86
+56			12.18	327.67
+68			12.26	327.59
+77			12.22	327.63
+80			12.20	327.65
E.V.C +92			12.10	327.75
915+12			9.25	330.60

Central B.M	222	345.81		343.59
915+25			10.76 c 4.17 14.93	330.88
B.V.C 916+82			11.23	334.58
+94			11.00	334.81
917+06			10.89	334.92
917+18 E.V.C			10.89	334.92
407# BM	2.08	345.20		343.12
922+80 Brk			12.70	332.50
B.M.	5.62	325.28		319.66
928+25 B.V.C				313.89
+37			11.74	313.54
+49			11.98	313.30
+61			12.09	313.19
+73			12.08	313.20
+85			11.95	313.33
+97			11.71	313.57
929+09			11.32	313.96
+21 E.V.C			10.84	314.44
B.M	2.53	341.34		338.81
931+70 B.V.C			11.21	330.13

	H.I.			
5.10	343.91		338.81	BM. 37+4
931+70 B.V.C			330.13	
		13.10	330.81	
		12.56	331.35	
		12.16	331.75	
		11.89	332.02	
932+30 E.V.C		11.78	332.13	
933+90 B.V.C		11.04	332.87	
		10.92	332.99	
		10.66	333.25	
	out	10.28	333.63	
		9.75	334.16	
934+50 E.V.C.		9.11	334.80	
934+85 B.V.C.		7.01	336.90	
		6.11	337.80	
		5.81	338.10	
		5.31	338.60	
		5.01	338.90	
935+45 E.V.C.		4.87	339.04	
3.82	351.48		347.66	BM. 36+4
938+44 Brk		11.98	339.50	

4.90	357.38			352.48
TP 455	351.23	10.70		346.68
945+64 B.V.C			9.34	341.89
			9.26	341.97
			9.08	342.15
			8.82	342.41
			8.46	342.77
946+24 E.V.C			8.03	343.20
946+70 B.V.C			5.73	345.50
			5.20	346.03
			4.81	346.42
			4.58	346.65
			4.48	346.75
947+30 E.V.C			4.53	346.70
947+70 B.V.C			4.91	346.32
			5.10	346.13
		5.53	~~4.53~~	345.80
			5.88	345.35
			6.47	344.76
948+30 E.V.C.			7.20	344.03

		H.I.		
	4.30	351.96	347.66	BM. 36"±
941+00 Brk			11.50 ✓	340.46
941+82 Brk Sewer Pipe			10.26 ✓	341.70
	2.88	353.62	350.74	BM. Wilson
945+00			11.92 ✓	341.70
945+70 PVC-10"thread sewer			11.73	341.89
		Read-100?	11.77	341.85 C-1.70
B.M	0.07	334.35		334.28
T.P	2 39	323.87	12 87	321.48
954+22 B.V.C			✓ 11.09	312.78
+26			✓ 11.35	312.52
+38			✓ 12.06	311.81
+45			✓ 12.47	311.40
+58 84 C			✓ 12.84	311.03
76 73			✓ 13.02	310.85
81 93			13.01	310.86
87 73 E Gate			12.92	310 95
955+0A 08			12.46	311.41
+12 08			12.07	311.80
+18 E.V.C			11.75	312.12
	12 79	324.91		312.12
955+82 B.V.C			8.98	315.93
955+94			7.41	316.50
956+06			7.63	317.28
+18 E.V.C			7.31	317 60
T.P 6.50		330.68	0.93	323.98
958+88			4.01	326 47

Swift.			
S.M 9.35	346.71		337.36
949+16 B.V.C		8.58	338.13
+21		8.88	337.83
+33		9.60	337.11
+45		10.18	336.53
+57		10.60	336.11
+64 E.V.C (5' road)		10.90	335.81
		1.04	
B.M 2.88	340.24		337.36
951+73 B.V.C		10.86	329.78
		10.91	329 33
		11.42	328.82
		12.05	328.19
		12.80	327.44
952+33 E.V.C		13.65	326.59
525.5	331.72		326.47
959+00		4.72	327.00
+15		4.47	327.25

	1.77	341.46		339.69
959+92	B.V.C		12.97	328.49
			12.72	328.74
			12.41	329.05
			11.99	329.47
960+40	E.V.C		11.46	330.00
961+12	B.V.C		7.26	334.20
			6.60	334.86
			6.01	335.45
			5.53	335.93
961+60	E.V.C		5.13	336.33
962+12	B.V.C			337.38
			3.88	337.58
			3.78	337.68
			3.76	337.70
962+60	E.V.C		3.85	337.61
	0.82	340.51		339.69
964+50			6.88	333.63

B.M	0.85	344.70		343.85
965+00			11.72	332.98
965+38 12			11.87	332.83
Brk	+60		11.94	332.76
T.P.	8.58	340.74	12.54	332.16
962+00			9.74	331.00
962+78			12.34	328.40
B.M	1.85	340.63		338.78
970+70	E.V.C		7.09	333.54
			6.59	334.04
			6.20	334.43
			6.00	334.63
971+13 03	Li	5.38 340.26	5.75	334.88
971+30	E.V.C		5.24	335.02
972+50			5.05	335.21
968+91			12.63	328.00
969+03			12.88	327.75
969+20			12.94	327.69
969+31			12.80	327.83
969+36			12.70	327.93
969+48			12.36	328.27
969+56	E.V.C		11.85	328.78

972+50	5.25	340.46		335.21
974+00	3.69	339.11	5.04	335.42
			3.37	335.74
B.M	3.67	351.38		347.71
T.P	2.00	343.56	9.82	341.56
977+90	B.V.C		7.60	335.96
			7.56	336.00
			7.52	336.04
			7.46	336.10
			7.36	336.20
			7.16	336.40
			6.96	336.60
			6.46	337.10
			5.91	337.65
			4.96	338.60
			3.96	339.60
			3.06	340.50
			2.16	341.40
979+46	E.V.C 5.04	347.34	1.26	342.30
980+00	Brk.		2.34	345.00
B.M	9.22	369.22		360.00
			11.36	357.86

B.M	1.97	371.48	369.51
984+62 [27]			11.73 / 359.75
+74 [27]			11.48 / 360.00
984+86 [27]			11.45 / 360.03
984+98 [27]	skip.		360.24
985+10 [27]			11.02 / 360.46
985+19 [27]			10.73 / 360.75
985+32 [27]			10.48 / 361.00
985+49			10.28 / 361.20
985+61			10.28 / 361.20
+73			10.52 / 360.96
B.M.	4.34	364.37	360.03
988+82 B.V.C			11.40 / 352.97
	5.33	358.30	352.97
			5.46 / 352.84
			5.71 / 352.59
			5.73 / 352.57
			4.30 / 354.00

	3.04	366.64		363.60
998+80 B/C			12.64	354.00
998+60 B/C			9.64	357.00
996+60			9.44	357.20
B.M.	1.63	370.70		369.07
998+00			12.70	358.00
1000+00			11.87	358.83
B.M.	2.29	374.70		373.41
1004+20			11.50	363.20
1006+00			8.33	366.37
1005+50			9.35	365.35
1002+00	9.27	372.47	11.50	363.20
			11.90	360.57
1005+50	6.92	371.37		365.35
1006+50			4.95	366.42
1008+00			5.37	366.00
T.P.	1.98	370.98	2.38	369.00
			5.73	365.25
	5.25	378.26		373.01
1010+00			13.76	364.50
T.P.	3.98	369.36	12.88	365.38
+19			4.93	364.43
1011+58 BC			5.54	363.82

	376	367.58		363.82
			4.38	363.20
B.M.				
	5.20	378.21		373.01
	0.56	370.95		
Top left side line			7.82	370.39
			7.75	363.20

0.93
2.96

370.37
3.68
374.02
363.20
10.82

374.02
368.14
5.88

373.01
0.93
373.94
11.50
362.44 bottom box

373.94
0.8
374.74 - Grad.

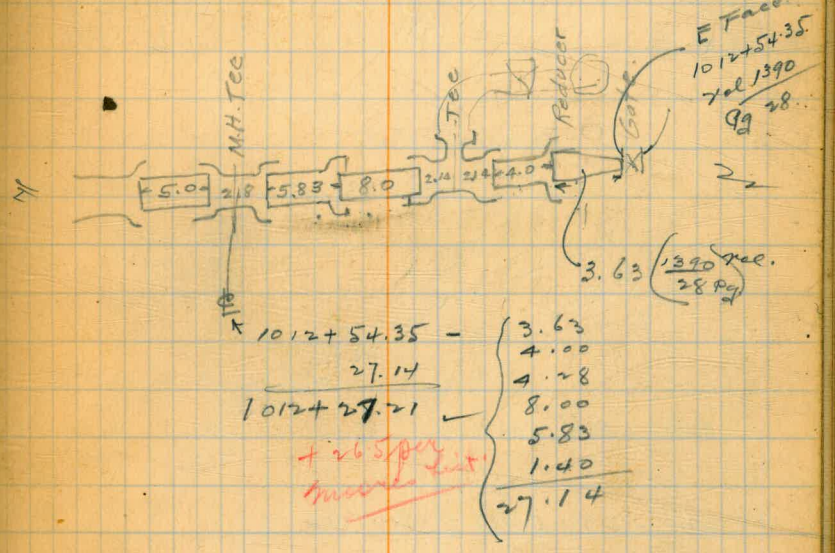
368.14
2.92
371.06
374.02
2.96

374.7
361.2
13.5

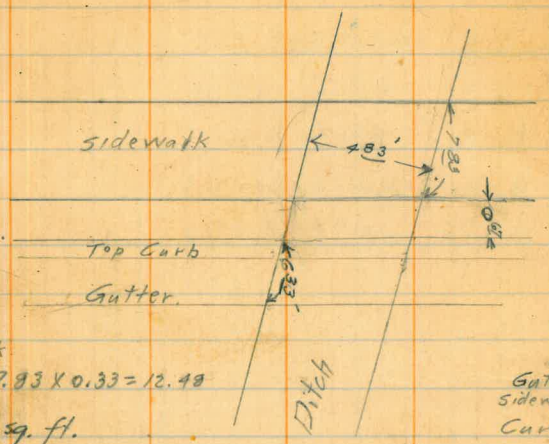
Cut stakes Drain at Wabash
& Wightman. Elevs. from E Profile.

0+00			
+41	312.8	309.4	3.4
	311.3	308.2	3.1
1+23.5	310.4	307.0	3.4
1+72	301.2	295.6	5.6
2+00	290.0	289.0	1.0

6/11 Caulking 940+00
6/11 Laying 947+00



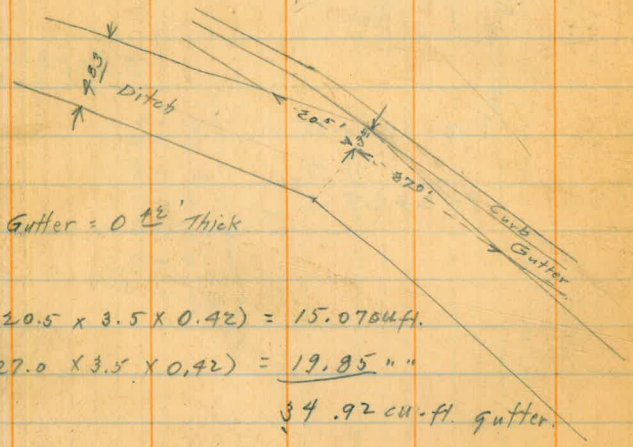
Pavement cut Sta. 855 + 12.5



walk
4.83 × 7.83 × 0.33 = 12.48
37.82 sq. ft.

Gutter = 0.42 Thick
Sidewalk = 0.33 "
Curb = 1.33 "

Pavement Cut.
Sta 858 + 53.2 L.



Gutter = 0.42' Thick

½ (20.5 × 3.5 × 0.42) = 15.070 cu. ft.
½ (27.0 × 3.5 × 0.42) = 19.85 " "
34.92 cu. ft. gutter.

83.12 sq. ft gutter.

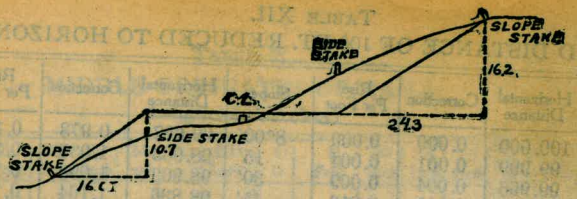
10" W.M. in Euclid.
B.M
339.66
6.14
345.80
6.01
339.79
333.95 gr.
C 5.84

6" W.M Alley Sct Highlande 44th

B.M 354.97
2.34
357.31
4.64
352.67
350.20 - gr. to b
C 2.47

6" W.M Sct VanDyke x 42nd
B.M 352.65
6.05
358.70
4.81
353.89
347.2
C 6.69

6" W.M Alley W of Swift.
337.36
0.58
337.94
11.70
326.24
320.00 - gr
C 6.24



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.

30'

6.25
8
5.45
6.8
1.35

$H \frac{1}{6}(A + a + 4m)$

5.48
2.66
0.82

11-1"
10-10"

10.83
10.43
11.03
11.41
11.15
11.23
10.83
11.23

.0000066
12
.0000792
20
.001584

10.83
10.43
21.26
11.03
32.29
11.41
11.15
23.56
11.23
33.79