

G-117

DEITZEN

ENGELERS

LEVEL BOOK

No. 240

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to 30.6 = 32.6. For slopes of 1 on 1 $\frac{1}{2}$ see inside of back cover.

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MICROFILMED

APR 7 1965

AUBURN DRIVE	page	1-5
PLUM - DUMAS to CURTIS	✓	6
EAGLE - PENN AVE	✓	7
BACON ST PAVING	✓	8-10
Alley Paving BIK 209 Univ Hgts	✓	11
SOUTHLOOK PAVING	✓	12
Ocean Beach Sewer Construction	✓	17
Alley Paving BIK 3 Florence Hgts	✓	30+31
DEL MONTE PAVING		29
30th ST PAVING - Woolman South		32-33
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Meadow Ave grading		62-64

Indexed
H.B.

NL STA.	AUBURN DRIVE	
	Grades	
- 2606 = PLOW SL	NCB	Sub
- 79.7 = EL Euclid on NL	339.09	339.64
	339.71	
0+00 = BC on SL	339.75	339.75
50 E	339.68	340.0
100	339.94	340.25
150	340.15	340.50
200	340.35	340.75
250	340.62	341.0
305.50 = PC	340.88	341.28
331.3 ~ 0 Δ = 1° 51'	341.0	341.42
357.1 ~ 0 Δ = 25.82'	341.1	341.57
382.88 ~ 0	341.24	341.71
408.8 ~ 0	341.37	341.86
434.65 Δ = EC = Break	341.50	342.0
450	341.41	341.91
500	341.14	341.64
550	340.88	341.38
600	340.61	341.11
650	340.35	340.85

12/24/25
Moore

Station	Sub	NCB	EL	NI	SL	GC	NOB	NCB	Sub	RP
339.09	339.64	339.75	339.75	339.68	339.94	340.15	340.35	340.62	340.88	341.28
341.0	341.42	341.57	341.71	341.86	342.0	341.91	341.64	341.38	341.11	340.85

$R = 400$
 $T = 65.14$
 $R = 400$
 $T = 56.44$

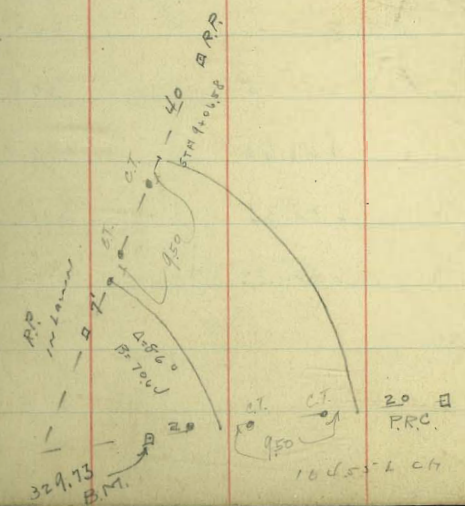
FUBURN DRIVE

	Nch	Sch
680	340.19	340.69
715.25 = PC = BREAK	340.0	340.50
$\Delta 15^\circ 30'$		
def = $1^\circ 56' 15''$		
ch = 27.05 NL		
① = 30.73 SL	329.75	340.00
②	338.50	339.50
③	337.75	329.0
822.6	337.0	338.50
$\Delta 15^\circ$		
④ = PC = BREAK		
865.0	334.96	336.46
$\Delta 15^\circ 30'$		
906.58 = PC = $86^\circ 00'$	332.92	334.42
R = 706.4		
T = 65.87	332.03	333.53
def = $4^\circ 18' 00''$	331.13	332.63
$\Delta 18^\circ 09' = NL$	330.24	331.74
chords		
$\Delta 10^\circ 59' = SL$	329.35	330.85
5	328.46	329.96
6	327.56	329.06
7	326.67	328.19
8	325.78	327.28
9	324.89	326.39
1087.66 = 10 = PRC = Break	324.0	325.50
0	322.96	324.42

346.37									
12.89									
333.48									
1.40									
332.08	NL	40.2	40.3	39.5	38.75	38.0	37.3	36.5	35.6
5.17		6.0	6.1	6.9	7.6	8.1	9.0	11.1	12.7
326.91		4.3	3.8	4.4	5.4	6.0	7.1	8.7	10.3
321.74		+1.7	+2.5	+3.5	+4.7	+5.1	+5.7	+6.7	+7.9
12.84	SL	41.9	42.8	42.05	39.5	38.05	36.7	35.7	34.7
320.90		5.5	5.6	6.1	6.8	7.1	7.7	8.7	10.3
11.86		3.1	2.9	3.9	5.0	5.7	6.7	8.1	10.3
319.04		5.7	5.7	6.5	7.5	8.1	9.2	10.8	12.5
313.87	NL	29.6	27.8	26.0	24.25	23.0	21.6	20.4	19.4
310.96		5.3	7.1	8.9	10.7	12.3	13.8	15.4	17.1
305.79		3.6	4.6	5.9	7.4	8.0	8.8	9.7	10.8
300.59		-3.0	-5.4	-7.8	-10.2	-11.6	-12.8	-13.8	-14.6
324.73	SL	51.1	29.3	27.5	25.75	24.7	23.7	22.7	21.7
319.56		2.8	4.6	6.4	8.2	9.0	9.8	10.6	11.4
314.39		4.6	6.4	8.2	10.0	11.0	12.0	13.0	14.0
309.22		+1.4	+1.6	+2.2	+2.8	+3.0	+3.3	+3.6	+3.9

346.37									
12.89									
333.48									
1.40									
332.08	NL	40.2	40.3	39.5	38.75	38.0	37.3	36.5	35.6
5.17		6.0	6.1	6.9	7.6	8.1	9.0	11.1	12.7
326.91		4.3	3.8	4.4	5.4	6.0	7.1	8.7	10.3
321.74		+1.7	+2.5	+3.5	+4.7	+5.1	+5.7	+6.7	+7.9
12.84	SL	41.9	42.8	42.05	39.5	38.05	36.7	35.7	34.7
320.90		5.5	5.6	6.1	6.8	7.1	7.7	8.7	10.3
11.86		3.1	2.9	3.9	5.0	5.7	6.7	8.1	10.3
319.04		5.7	5.7	6.5	7.5	8.1	9.2	10.8	12.5
313.87	NL	29.6	27.8	26.0	24.25	23.0	21.6	20.4	19.4
310.96		5.3	7.1	8.9	10.7	12.3	13.8	15.4	17.1
305.79		3.6	4.6	5.9	7.4	8.0	8.8	9.7	10.8
300.59		-3.0	-5.4	-7.8	-10.2	-11.6	-12.8	-13.8	-14.6
324.73	SL	51.1	29.3	27.5	25.75	24.7	23.7	22.7	21.7
319.56		2.8	4.6	6.4	8.2	9.0	9.8	10.6	11.4
314.39		4.6	6.4	8.2	10.0	11.0	12.0	13.0	14.0
309.22		+1.4	+1.6	+2.2	+2.8	+3.0	+3.3	+3.6	+3.9

KOPRAN



AUBURN DRIVE - Curb and Retaining wall

31902

End of Ch on	cb ELEV.
SL of South Auburn = 0+00	311.57
Ch = 12.3 def = 4° 13' 30"	310.39
+ 24.33 = P.O.C. = BREAK	309.21
Ch = 14.72 def = 4° 28' 05"	307.79
Ch = 14.72 def = 4° 28' 05"	306.35
Ch = 14.72 def = 4° 28' 05"	304.94
800' = EC 84.74 = PC of 5' Radius curve	303.50
Middle of CV = 5' Radius	301.75
95.77 = EC 94.76 = PC 101' of tangent	300.0
Ch = 18.32 def = 2° 57' 28"	297.16
Ch = 18.32 def = 2° 57' 28"	294.32
Ch = 18.32 def = 2° 57' 28"	291.48
Ch = 18.32 def = 2° 57' 28"	288.64
199.99 = EC Southern end of wall	285.80

ELEV. for top of wall

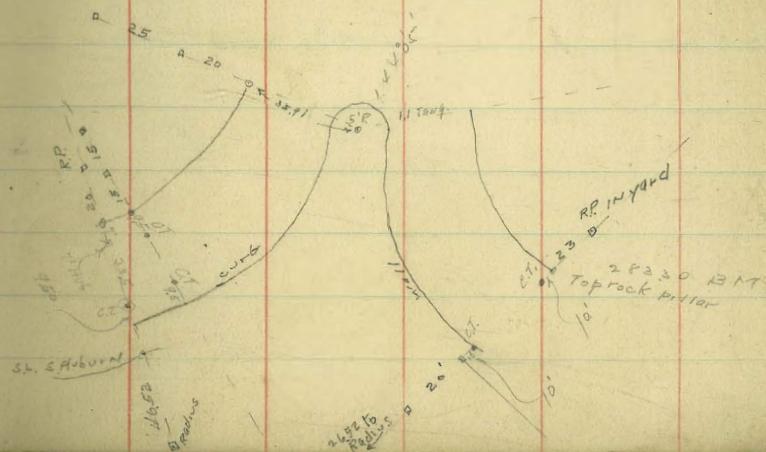
Southern end of wall = 0+00	10° 27' 55"	285.80
Ch = 9.94 def = 1° 37' 55"	5° 15' 50"	288.90
+ 20 = BREAK	7° 56' 26"	292.0
Ch = 9.94 def = 1° 37' 55"	10° 16' 44"	294.30
	12° 37' 00"	
	14° 57' 20"	

SL cb elev.	311.57	310.3	309.2	307.79	306.35	304.94	303.5
	7.5	5.7	4.8	11.3	15.7	14.1	13.5
	-7.6	-7.7	-2.6	-2.7	-7.1	-7.0	-7.7

307.54	297.16	294.32	291.48	288.64	285.80
12.61	10.4	13.2	10.6	18.9	9.9
147.93	48	2.9	10.4	12.4	6.3
237	+61	+5.3	+5.1	+5.5	+3.6
15.70					

SL	311.57	310.39	309.21	307.79	306.35	304.94
	11.1	2.0	3.7	7.8	6.33	7.76
						2.6
						+2.0
SL	302.50	293.0	291.48	285.80	285.80	292.0
	9.18	13.7	11.29	10.77	7.67	4.87
	6.1	146.57	11.29	10.77	20.1	2.0
	12.07	297.65	297.65	297.65	-1.34	-1.73
						-2.57

Ch = 14.32 def = 2° 01' 40"	296.60	296.60	296.60	296.60	296.60
	10.95	8.65	6.35	4.05	2.05
	2.75	7.20	2.1	1.0	1.0
	+1.10	+1.45	+2.2	3.0	3.0
PRC R = 91.64	303.50	303.50	303.50	303.50	303.50
+ 97.93 Center of curve	303.50	303.50	303.50	303.50	303.50
1 + 04.14 Junction with ct.	303.50	303.50	303.50	303.50	303.50



AUBURN DRIVE

	E 16	W 16
E.C. = 0400	284.80	285.80
56325	276.37	277.37
112.64	267.93	268.93
168.97	259.50 BREAK	260.50
223.04	256.50	257.50
277.11	253.50	254.50
331.20	250.50	251.50

295.70	286.0	277.6	269.2	260.75	252.25	254.75	251.75
12.97	9.7	18.1	14.2	9.8	12.8	7.7	10.7
13.97	3.4	11.7	7.2	8.0	12.1	2.0	9.7
170.48	16.3	16.4	16.8	11.8	10.7	10.5	10.8
201		276.6	268.2	259.75	262.5	252.5	250.80
170.59		6.8	15.2	10.8	5.7	8.7	11.7
17.12		5.5	18.2	12.0	6.5	8.8	14.1
154.46		-1.7	-3.0	-4.2	-0.3	-0.1	-2.4
3.95							
167.41							
283.80	284.80	261.30	259.77	252.5	250.50		
260	11.0	1.7	2.80	3.73	12.07		
145.90							
23.26							
172.06	285.80	267.30	260.77	259.7	251.50		
20.02	1.0	.7	1.80	2.73	11.07		
172.77							
102.2							
16.30							
12.7							
102.87							

Culvert Location

Culvert #	Flowline
E.Culvert #1 = 0100	301.32
+20 = E.Culv. #2	297.97
+76 = outlet	288.60 → 277.10 lowered 15'

3190.37	291.22	297.97	285.6	285.70		
3272	17.71	11.06	17.1	8.6		
24.95	10.36	13.24	8.6	287.10	12.8	432
12.7	7.35	10.62	1.5	285.8	3.5	112
11.1				1.5	7.0	3.1
311.35	301.32	297.50	294.50	303.50		
16.02	16.02	19.85	14.85	13.5		
11.69	7.02	10.27	11.69	10.37		
324.20	Flowline	29.08	21.6 set	3.08 of grade		
2.22						
324.87						
299.17	294.32	290.20				
5.70	5.70	11.87 gutter				
4.47	4.47	10.5				
11.23 gutter	11.23 gutter	10.5				
		10.5				
		10.5				
		4.				

15/4 Moore PLUM ST (Roseville) 70' wide
18' cto

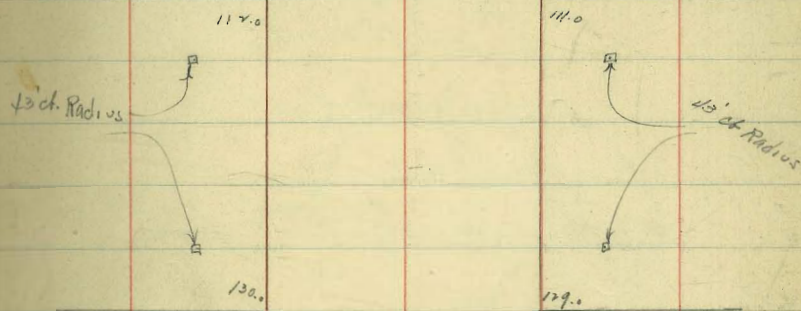
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Chateworth + ELLIOTT
SE.P.

	W.L	E.L
NEL CURTIS	130.25	129.25
25' w = PC on ct	128.00	127.00
50' w	125.75	124.75
100' ✓	121.25	120.25
150' ✓	116.75	115.75
175' ✓ = PC on ct	114.50	113.50
200' ✓ = SL DUMAS	112.25	111.25

W.L	114.50	114.75	121.25	125.75	128.00
	18.5	16.3	11.8	7.3	5.0
	19.1	9.1	5.8	3.2	2.4
	+7.4	+7.4	+6.4	+5.1	+4.6
E.L	113.50	115.75	120.25	124.75	127.00
	19.5	17.3	12.5	8.3	6.0
	11.2	9.0	6.7	4.6	3.9
	+8.3	+7.7	+6.1	+3.7	+2.1

DUMAS ST



CURTIS ST

EAGLE & PENN. AVE

PAVING

25490

SW SPIKE PENN. & EAGLE

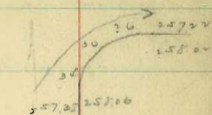
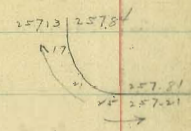
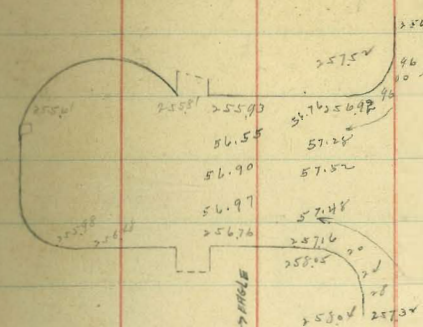
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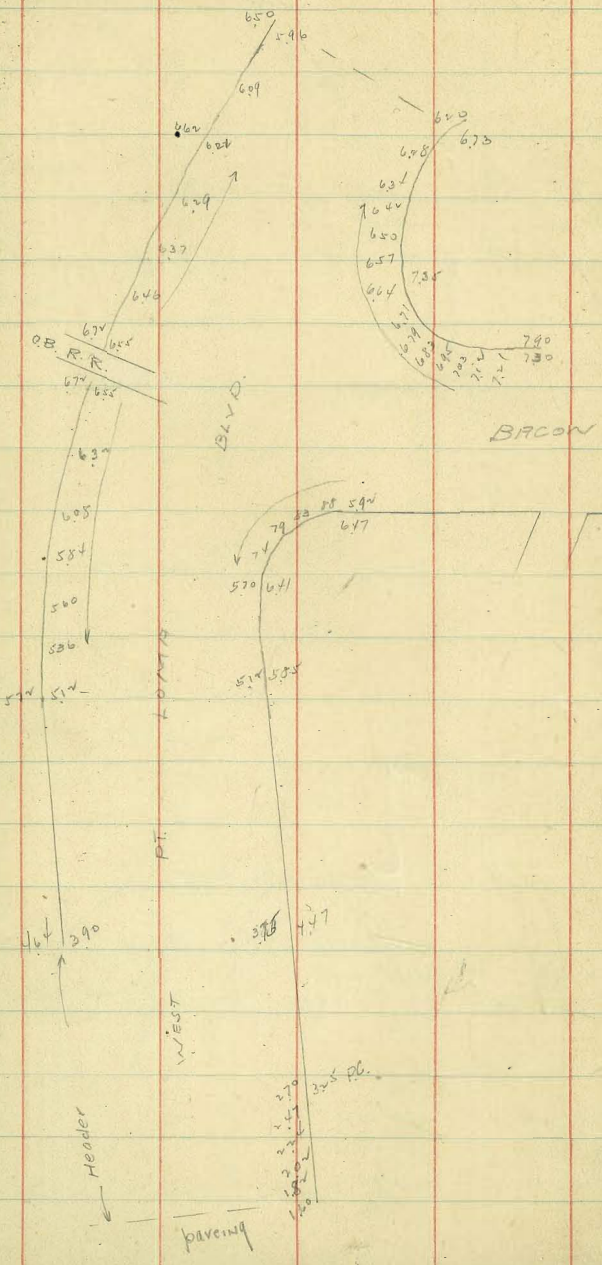
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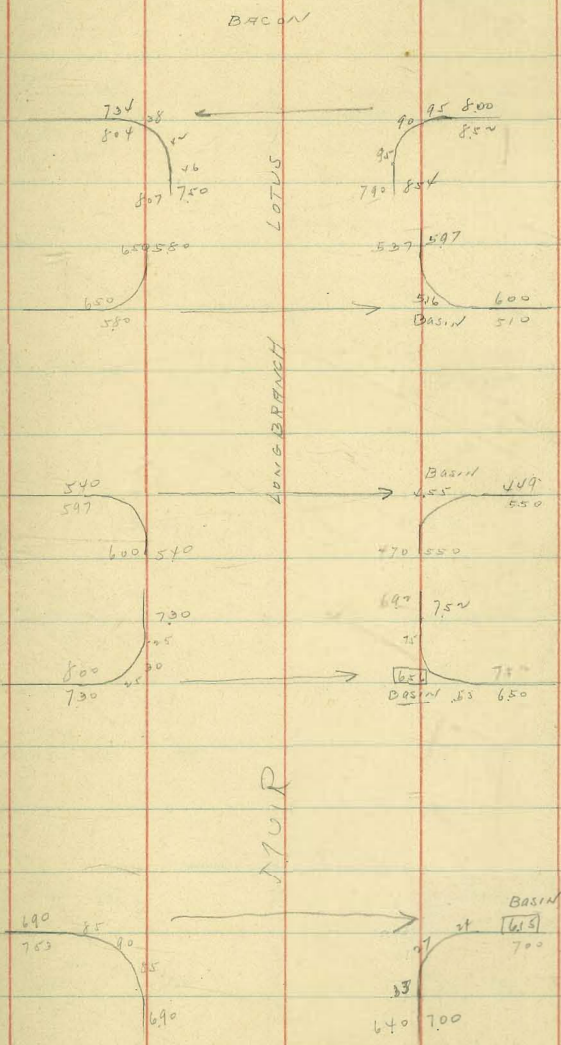
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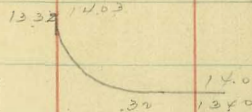
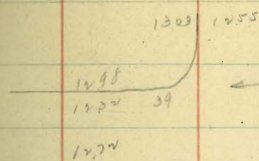
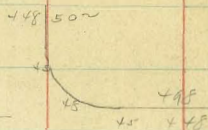
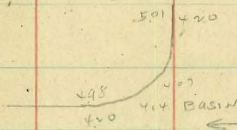
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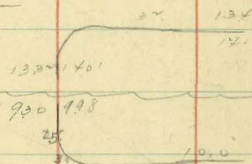
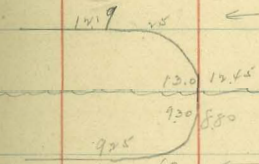
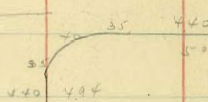
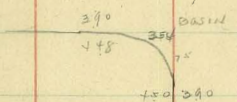
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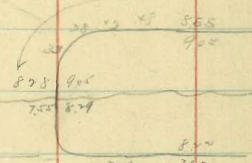
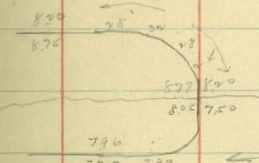
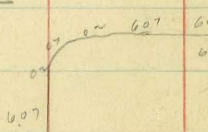
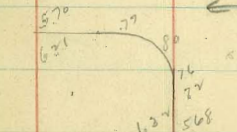
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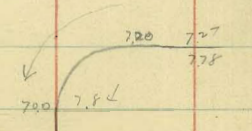
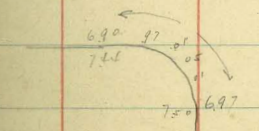


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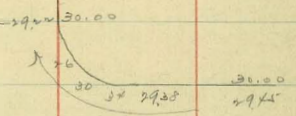
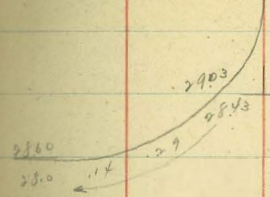
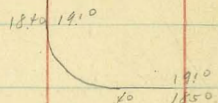
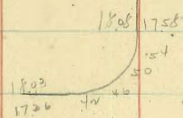
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SARATOGA

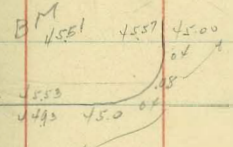
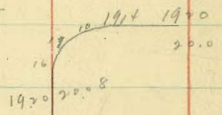
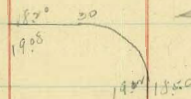


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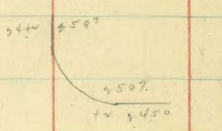
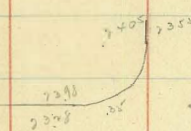


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SANTA CRUZ



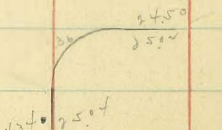
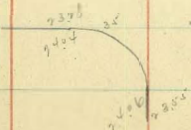
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BACON ST

CARDUZZO

DEL MORATE



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Univ Ave
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Illinois
10000

ALLEY PAVING
B/K 209 UNIV HATS

1/21/26
Stones
Cl out

Dist	W/L	EI	Stones	Cl out
NL LINCOLN	362.78	362.72	362.30	
25'S	BREAK 362.62	+0.10 362.56	-0.30	
50'S	362.48	362.40		
100	362.12	362.08		
150	361.79	361.76		
200	361.46	361.44		
250	361.13	361.12		
300 = BREAK	360.80	+1.08 360.80	-0.5	
350	360.31	-0.05 360.27	-0.09	
400	359.82	-0.15 359.74	+0.09	
450	359.33	+0.04 359.29	-0.12	
500	358.84	+0.06 358.70	+0.24	
550	358.35	+0.04 358.18	+0.17	
600 S = NL UNIV	357.86	357.66		

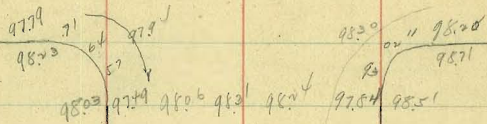
Dist	W/L	EI	Stones	Cl out
357.98	474	362.77	347	
359.25	475	364.03	347	
361.10	476	366.71	347	
362.78	477	369.45	347	
364.03	478	362.05	347	
366.71	479	362.40	347	
369.45	480	362.08	347	
362.79	481	361.76	347	
364.03	482	362.40	347	
366.71	483	362.08	347	
369.45	484	362.40	347	
362.79	485	361.76	347	
364.03	486	362.40	347	
366.71	487	362.08	347	
369.45	488	362.40	347	
362.79	489	361.76	347	
364.03	490	362.40	347	
366.71	491	362.08	347	
369.45	492	362.40	347	
362.79	493	361.76	347	
364.03	494	362.40	347	
366.71	495	362.08	347	
369.45	496	362.40	347	
362.79	497	361.76	347	
364.03	498	362.40	347	
366.71	499	362.08	347	
369.45	500	362.40	347	

20' wide 11

PAVING W 362.78
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SOUTHLOOK AVE. PAVING

IMPERIAL FIVE



200

BREAK

9404 9234 9260 9304 9217 9247 9302

9153 9255 9114 9130 9104 9245 9101

GILLMORE

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617
104.75
6.83
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SE TOP HYD.
IMPERIAL + 38th

9706

21st & N ST

40.44 40.41 41.10 41.80 41.89 41.88

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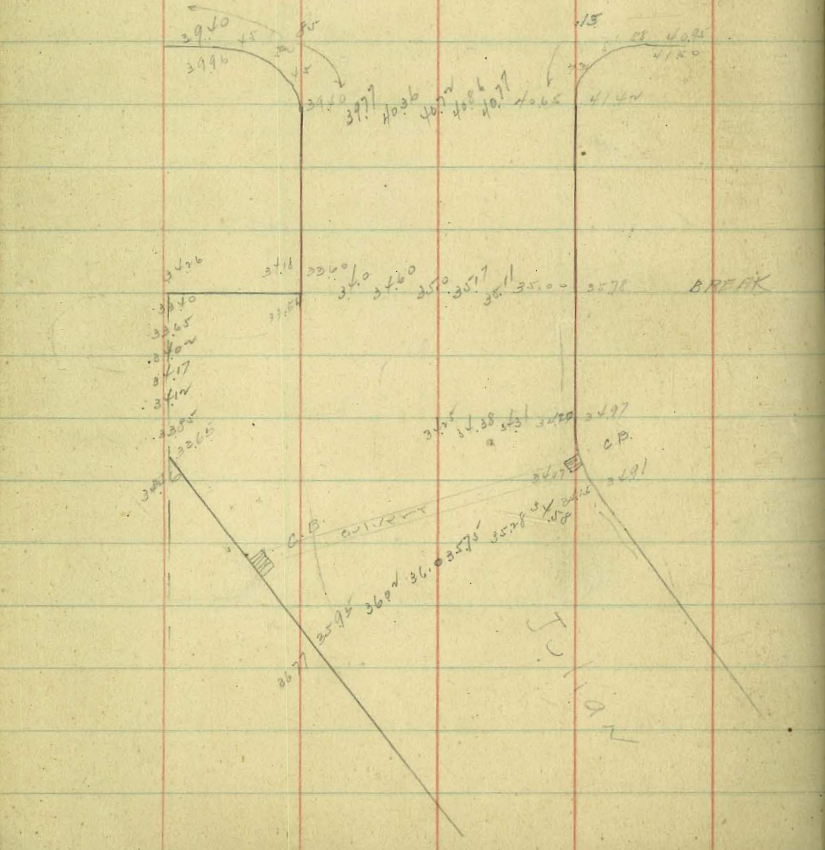
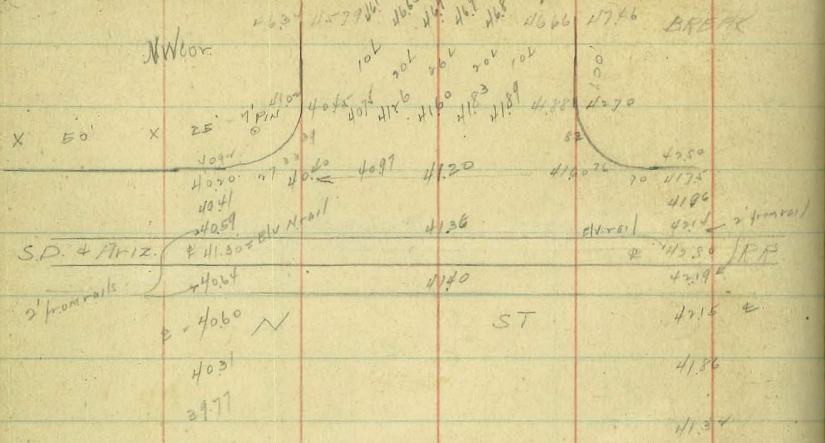
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39.40 39.47 39.56 39.67 39.80 39.77 40.67

W.L. 20th 30th 40th 50th 60th 70th 80th 90th 100th

W.L. 20th 30th 40th 50th 60th 70th 80th 90th 100th

EI ST ST PRAYING



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 10.17 RAKED
 2.01
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 49.0 51.67 49.0 47.66 45.08 42.50
 2.27 RAKED 8.51 11.39 57.1 57.5

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4.18
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 201111
 270' soft soil

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 1.20 1.60

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 1.30 0.30 2.90
 2.10 1.20 1.0

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 1.22
 1.09
 0.96
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 0.57
 0.44
 0.31
 0.18
 0.05
 0.00

BK 68 PARK VILLAGES PAVING

	W L	328.40	FL	
NK Landis	327.15	$\begin{array}{r} 328.40 \\ 1.04 \\ \hline 329.44 \\ 12.61 \\ \hline 342.05 \\ 4.63 \\ \hline 346.68 \end{array}$	328.25	
30 N 20100 @	330.70	$\begin{array}{r} 346.68 \\ 2.00 \\ \hline 348.68 \\ 2.40 \\ \hline 351.08 \\ 6.22 \\ \hline 357.30 \end{array}$	331.0	
35	330.21	$\begin{array}{r} 357.30 \\ 11.67 \\ \hline 368.97 \\ 2.96 \\ \hline 371.93 \end{array}$		
70	330.74	$\begin{array}{r} 371.93 \\ 11.41 \\ \hline 383.34 \\ 2.96 \\ \hline 386.30 \end{array}$		
120	332.45			
170	333.18			
220	333.91			
270	334.64			
320	335.37			
370	336.10			
400	336.55			
420 @	337.0		337.30	
470	336.50			
510 @	336.0		336.25	
540	333.60		333.60	$\begin{array}{r} 6.84 \\ 4.58 \\ \hline 11.42 \end{array}$
570 2 1/2" lightman	327.15		328.38	

Ocean Beach Sewer Outfall

"B" Line

	2.12	4.68	2.56	TP on rock	
			Elev.	Grade	
0+00 = 8" CI. Berdoff tank		2.73	+1.95	1.95	
0+24 spike rock		4.65	+0.03	-3.0	+3.03
0+45 spike "		7.37	-2.69	-3.42	+0.73
0+60 spike "		8.15	-3.47	-3.73	+0.26
0+90 spike "		10.08	-5.40	-4.34	-1.06 spike
1+00 sand		10.8	-6.1	-4.54	
1+50 spike "		5.93	-1.25	-5.55	+4.30
1+75 sand		11.4	-6.7	-6.05	
2+00 sand		12.4	-7.7	-6.57	
2+70 Spike rock		11.88	-7.20	-8.0	+0.80
3+36 sand end of outfall.		12.3	-9.6	-9.32	

Ocean Beach Outfall
& BERMUDA

4687

14

"C" Line $A 44^{\circ} 28' S$ of ϕ STREET

Station	Depth	Grade	Notes
NWOP	5.55	6.66	2.11 Bermuda Defoo
TP	1.1	15.26	12.54 14.14
TP	2.1	4.68	12.70 2.56 Grade
8" Bend = 0+00 flowline		2.73	1.95 1.95
0+35 on rock = CUT		4.54	-0.16
0+70 " " = CUT		8.49	-3.81
1+00 on sand		11.48	-6.50
1+20 on rock = CUT		6.41	-1.73
1+30 " sand		11.39	-6.71
1+50 " " in hole		13.25	-8.57
1+60 " rock = CUT		9.87	-5.19
1+65 " sand		12.30	-7.6
2+00 " "		12.70	-8.0
3+00 " "		14.3	-9.6
3+36 " " end outfall		14.4	-9.7

"B" Line $A 57^{\circ} 55' S$ of ϕ Bermuda

Station	Depth	Grade	Notes
0+00		1.95	Grade flowline of bend at tank
4+45 rock	7.07	-2.69	0.46 + 3.15 = nail
4+90 rock	10.08	-5.40	-1.03 -4.37 = nail
1+00 sand	10.8	-6.7	-1.36 +1.77
1+50 rock	5.93	-1.25	-3.02 = nail
1+75 sand	11.4	-6.7	-3.85
2+00 sand	12.4	-7.7	-4.68
2+70 rock	11.88	-7.20	-7.00 + 0.20 = 5 spikes
3+26 end	14.3	-9.6	-9.19

OCEAN BEACH SEWER

Thru BIK 43 thence EAST betw. Bermuda + W. P. Lane BND

- 78 Tank INLET	8.66
- 39	10.33
235' W. Deposited DMH.	12.00
✓ ✓ ✓ = Flowing thru BIK 44	17.00
41.66 E	12.20
53.33 E	12.40
145' E = M.H. A South thru BIK 43	12.60 ✓
150	12.70 ✓
400	12.91 ✓
750	13.14 ✓
300	13.33
315.00 M.H. & Hileys BIK 43	13.40
350	13.59
400	13.82
440.0 M.H. 15' S of W. Depoc	14.00
500	14.59
550	15.09
600	15.48
650	15.98

will NW Depo + Bermuda

25.59

Top Tank		Inlet					
17.00	8.66	10.33	12.00	17.00	12.30	13.19	
13.59	16.92	15.26	12.59	18.59	8.59	13.39	381
2.10	2.10	3.20	3.20	3.98	3.98	3.32	49.30
+10.49	+13.82	+14.06		+7.60	+7.60	+9.57	
12.81	12.89	12.91	13.12	13.33	13.40	13.57	13.82
11.13	4.50	17.68	17.97	12.26	12.19	12.02	11.77
+7.86	+8.39	5.83	5.80	5.82	5.74	5.99	5.82
		+7.05	+6.67	+6.24	+6.45	6.03	+5.91
14.00	14.59	15.09	15.48	15.98			
11.59	11.00	10.50	10.11	9.61			
6.10	5.72	5.63	5.36	4.36			
+5.79	+5.28	+4.87	+4.75	+3.25			

OCEAN BEACH SAVED
Between Bermuda & W. Pt. Lom Blvd

700	16.44 ✓
745 ✓ = MH	17.00
800	19.50
850	21.80
900	24.11
950	26.41
1000	28.70
1050	31.00
1100	33.27
11+135 = MH & EBERS	34.00
1150	35.76
1200	38.18
1250	40.60
1300	43.00
1350	45.44
1400	47.86
1443.5 = MH	50.00
1500	52.84
1550	55.015

15

16.44	17.00	19.50	21.50	24.11	26.41	28.70	31.00
9.10	8.50	17.01	14.71	12.80	10.14	7.80	1.68
2.24	1.90	10.09	7.66	5.50	2.80	0.85	1.05
6.16	6.67	7.41	7.05	6.90	7.20	6.95	6.46
33.27	34.00	35.76	38.18	40.60	43.00	45.44	
14.71	13.98	18.75	16.33	13.91	11.49	9.07	
8.90	8.14	13.53	8.85	4.70	2.21	1.25	
4.79	4.84	6.22	7.48	9.00	9.78	7.84	
47.84	50.00	52.84	55.35				
18.24	16.10	13.26	10.75				
1.05	9.80	6.81	3.85				
17.74	7.00	16.85	16.90				

Ocean Beach Sewer
Bermuda + W Pt L'nd Blvd

1600	57.87
1650	60.38
1700	62.90
1750	65.41
1771.5 = MH & Froude	66.50
1800	67.84
1850	70.18
1900	72.53
1950	74.88
2000	77.23
2050	79.58
2101.5 = M.H.	82.0
2150	86.85
2200	91.85
2250	96.85
2300	101.85
2311.50 = BREAK	103.0
2350	109.08
2400	116.99
2428.5 = M.H. & Guide	122.0

66.10	57.87	60.38	62.90	65.41	66.50			
1.23	8.28	16.92	14.46	11.89	10.80			
65.17	0.93	8.82	6.04	3.72	2.85			
77.20	47.30	45.00	48.36	48.17	48.75			
2.05								
15.45 = offsetting Froude E								
2.11								
78.13								
12.27								
65.76								
2.92								
69.01								
1.26								
57.75								
72.24	67.84	70.18	72.53	74.88	77.23	79.58	82.0	86.85
1.23	10.81	17.67	15.82	12.97	10.62	8.09	17.67	12.32
65.17	11.55	7.83	5.58	4.83	3.12	18.30	10.60	6.44
1.23	18.50	49.80	49.73	45.14	45.50	47.75	47.01	46.38
77.20								
2.05								
15.45								
2.11								
78.13								
12.27								
65.76								
2.92								
69.01								
1.26								
57.75								
91.85	96.85	101.85	103.0	109.08	116.99	122.0		
7.82	14.37	11.35	20.20	14.17	18.93	13.42		
1.23	7.27	11.74	9.56	8.97	8.42	6.18		
116.61	16.14	16.80	19.59	18.32	18.15	17.51		
1.23								
122.20								
103.17								
1.23								
124.14								

Ocean Beach Sewer
betw. Bermuda + PTKOMA 1940

2650 123.54
 2500 147.87
 2550 132.16
 2600 136.45
 2650 140.73
 2700 145.01
 2711.5 = M.H. 146.0
 2750 150.24
 2800 155.70
 2850 161.18
 29 166.66
 +50 172.14
 30 177.62
 +71.5 = D.E. 180.0

20

125.00	123.54	177.87	132.16	136.45	140.73	145.01	146.0
2.51							
135.51							
17.87							
153.64							
2.71							
147.93							
23.25							
149.18							
1.87							
150.60							
12.97							
137.57							
0.16							
170.71							
15.00							
133.71							
0.24							
133.31							
9.45							
133.44							
11.00							
132.24							

150.24	155.70	161.18	166.66	172.14	177.62
9.45	15.87	10.39	17.45	11.77	5.64
1.90	2.43	3.01	9.67	4.06	6.20
17.55	17.00	17.10	17.55	17.71	17.96

182.24 SWEEP SANTA BARBARA + PTKOMA 1940

2711.5
 310
 3021.5

Ocean Beach Sewer CONSTRUCTION

DMH & Bermuda = 0+00	17.00	+455
+50	17.52	+520
1 -	18.05	+544
+50	18.57	+581
1 + 89.70 = MH & Alley Bermuda & Pescadero	19.00	+760
2 -	19.10	+752
+50	19.54	+810
3 -	19.98	+936
3 + 14.7 = MH & 90° RT	20.10	+962
+50	20.46	+969
4 -	20.96	+1017
+50	21.46	+1072
5 + 04.4 = MH & Pescadero 90° LT	22.00	+1071
+54.4	22.17	+1117
6 + 04.4 = MH & 90° RT	22.34	+1171
+50	22.50	+946
7	22.67	+600
+50	22.84	+526
+94.3 = MH & Alley ^{Orchard} bet. Pescadero	23.00	+469
8 + 00	23.06	+446

next page

21.11
9.61
30.74
1.22
29.52
8.19
37.71

17.00	17.52	18.05	18.57	19.00	19.10	19.54
13.72	13.22	12.69	12.17	11.70	11.62	11.20
7.16	7.52	7.22	6.36	4.12	4.12	3.10
+4.58	+5.70	+5.24	+5.81	+7.60	+7.52	+8.10
19.98	20.10	20.46	20.96	21.46	22.00	22.10
10.76	10.62	10.45	10.95	10.45	10.91	10.91
1.40	1.02	1.22	1.78	1.72	1.20	1.20
+9.36	+9.62	+9.69	+10.17	+10.72	+10.71	+10.71
22.17	22.24	22.50	22.67	22.84	23.00	23.00
15.74	15.57	15.71	15.24	15.07	14.91	14.91
4.57	3.86	5.25	9.34	9.81	10.22	10.22
+11.17	+11.71	+9.46	+6.00	+5.26	+4.69	+4.69
23.06	14.85	10.39				
+4.40						

Ocean Beach Sewer

CONT. from page 21

8+50	23.58	+4.10
9-	24.11	+4.40
+50	24.63	+13.27
9+84 = D.M.H. & Orchard 4 90° LT	25.00	+12.96
✓ ✓ D.M.H. ✓ ✓ 1/2 Drop	29.00	+8.96
10+00	29.36	+8.88
+50	30.67	+8.70
11-	31.58	+8.45
+50	32.69	+8.77
12-	33.80	+8.29
+54 = DE. 70' W of WL of Cable ST	35.00	+8.30

3791								
181								
27.90	23.58	24.11	24.63	25.00	29.00	29.36		
6.36	14.22	13.80	13.48	19.76	15.76	15.40		
44.76	10.19	9.33	0.01	6.80	6.90	6.32		
	+4.14	+4.40	+13.27	+12.96	+8.96	+8.88		
	30.47	31.58	32.69	33.80	35.00	DE		
	14.29	12.18	12.07	10.96	9.76			
	5.59	4.73	3.30	2.67	1.20			
	+8.70	+8.45	+8.77	+8.47	+8.30			70' W of WL Cable
11.53								
33.73								

33.1 V SE Cable + DAIMAR

Sewer CONSTRUCTION
between Orchard and Pescadero

7443=otoo	23.0	+464
50 E	23.16	+540
100	23.23	+584
150	23.49	+656
2	23.63	+739
+75 = MH	23.81	+755
3	23.99	+743
+50	24.15	+627
4	24.32	+432
+50	24.48	+409
+75 = MH Defoe	24.57	+395
5	24.65	+407
+50	24.81	217
6	24.98	+250
+50	25.15	+250
7	25.33	+483
+50 = MH.	25.50	+738
8	25.87	+738
+50	34.25	+751
9	35.62	711

2111 12.01 33.52 37.78 12.34 45.37	23.00 10.50 2.22 +4.67	23.10 10.36 2.90 +5.20	23.33 10.19 4.35 +5.84	23.49 10.03 3.47 +6.56	23.63 9.89 2.50 +7.39	23.79 9.53 2.30 +7.73
2415 7.37 3.10 6.27	24.34 9.20 4.84 +4.36	24.48 9.04 4.95 4.29	24.57 8.95 5.00 3.95	24.65 8.87 4.80 4.07	24.81 8.71 6.54 4.17	24.95 8.54 6.04 3.50
2515 8.37 6.55 4.82	25.23 8.19 3.34 +4.85	25.50 8.04 0.64 +7.38	25.87 10.50 7.12 +7.28	26.25 13.12 5.61 +7.51	26.62 9.75 2.58 +7.17	

1.30
23.81
7.71
2.11
23.99

Southern CONSTRUCTION
 Giesse, Orchard + Perradono

Year	Value	Value	Value	Value	Value	Value	Value	Value	Value		
10	+50	39.0	726	45.07	39.0	4237	45.75	49.12	5250	5590	5931
11	+50	42.37	730	45.07	47.57	15.20	11.84	8.25	15.99	12.59	9.18
12	+50	45.75	767	45.07	46.41	7.90	4.12	1.16	8.06	4.45	1.20
13	+50	49.12	729	45.07	46.41	7.26	7.30	7.67	7.72	15.14	5.94
14	+50 = MH & Ebers	52.50	773	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
15	+50	55.90	814	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
16	+50	59.31	791	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
17	+50	62.71	732	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
18	+50	66.12	690	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
19	+50 = MH	69.52	689	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
20	+50	72.92	793	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
21	+50	75.00	828	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
22	+50	76.45	913	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
23	+50	80.08	1088	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
24	+50	83.74	1280	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
25	+50	87.35	1318	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
26	+50	91.00	1234	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
27	+50	94.63	1188	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
28	+50	98.26	1163	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08
29	+7 +10 = MH Froude	99.00	1126	45.07	62.71	66.12	69.52	72.92	75.00	76.45	80.08

Sewer bet Orchard +

24		151.67	255.56
+50		157.17	+15.17
24+67	= MH & Guisot	159.00	+12.85
25		161.06	+14.10
+50		164.88	+13.40
26		167.31	+12.82
+27 = BREAK		169.0	1350
+50		170.30	1295
27		176.30	821
+50		181.30	7.22
+97 = M.H.		186.0	730
28+27		189.0	767
28+57	BREAK	192.0	+753
29		198.23	579
+50		205.48	587
30		212.73	602
+57 = DE		221.0	731

177.81
 508
 177.73
 12.25
 190.98
 0.49
 190.00
 13.95
 203.95
 22.22
 226.17
 13.77
 215.00
 13.23
 228.23
 6.16
 234.39
 2.35
 236.74
 5.70
 242.44

151.67	157.17	159.0	161.06	164.88	
26.74	20.69	18.81	16.75	76.31	
10.58	5.55	5.96	2.65	12.81	
+15.56	+15.17	+12.85	+14.10	+73.40	
167.31	169.0	170.30	176.30	171.30	186.0
23.18	21.44	20.19	14.19	9.19	16.45
10.36	7.89	7.27	5.98	1.97	9.5
+12.82	+13.50	+12.95	+8.21	+7.22	+7.30
189.0	192.0	198.23	205.48	212.73	
13.95	10.95	16.77	9.52	14.60	
6.22	3.42	10.98	3.65	8.58	
+7.67	+7.53	+5.79	+5.87	+6.02	
221.0					
14.92					
7.61					
7.31					

2303 ~ N/Mon Posadero + Santa Barbara

Sewer betw. Bermuda + Escadero

MH=0+00	19.0	+2.60
+50	19.16	+5.85 ✓
1	19.33	+5.76 ✓
+50	19.49	+5.44 ✓
2	19.66	+4.67 ✓
+50 = MH. Deloo	19.83	+3.87 ✓
3	20.00	+4.40 ✓
+50	20.16	+3.38 ✓
4	20.33	+3.40 ✓
+50	20.49	+3.26 ✓
5	20.66	+2.58 ✓
+50	20.8 ✓	+6.68 ✓
+95 = DMH	21.00	+9.92 ✓
6	25.00	+5.93 ✓
6+50	27.83	6.63 ✓
7	30.40	7.92 ✓
+50	32.98	7.83 ✓
8	35.55	7.60 ✓
+50	38.13	7.45 7.30
9	40.70	8.04 7.43

19.0	19.16	19.33	19.49	19.66	19.83	20.00	20.16	20.33	20.49	20.66	20.83	21.00	25.00	27.83	30.40	32.98	35.55	38.13	40.70
1.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
2.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
3.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
4.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
5.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
6.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
7.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
8.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
9.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
10.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
11.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
12.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
13.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
14.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
15.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
16.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
17.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
18.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
19.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
20.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
21.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
22.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
23.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
24.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
25.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
26.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
27.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
28.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
29.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85
30.00	8.85	9.68	9.52	7.35	9.18	9.01	8.85	8.68	8.52	8.35	8.18	8.01	7.85	7.68	7.52	7.35	7.18	7.01	6.85

9+33.6 MH = Ebers	42.00	+4.1	7.07
+50	43.6 ✓	+6.60	8.04
10	46.76	+6.01	9.11
+50	49.87	6.63	6.60
11	53.00	5.81	6.01
+50	56.10		6.63
12	59.20		5.81
+53.6 = MH	62.50		5.40
13	65.31		5.05

	Seniors betw.	Bermuda + Pescadero	Wts.
	13 + 50	68.34	505
	14	71.38	562
	+ 50	74.41	617
	15	77.45	620
	+ 50	80.50	626
	15 + 82.4 = M. Froese	82.50	486
	16	83.54	628
	+ 50	86.50	646
	17	89.45	620
	+ 50	92.40	522
	18	95.35	431
	+ 50	98.30	484
	19	101.26	785
	+ 12.4 = J.H.	102.0	590
	19 + 50	105.17	956
	20	109.40	714
	+ 50	113.64	523
	21	117.87	446
	+ 50	122.11	514
	22	126.34	767

74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41
68.34	68.34	68.34	68.34	68.34	68.34	68.34	68.34	68.34	68.34	68.34	68.34	68.34
71.38	71.38	71.38	71.38	71.38	71.38	71.38	71.38	71.38	71.38	71.38	71.38	71.38
74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41
77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45
80.50	80.50	80.50	80.50	80.50	80.50	80.50	80.50	80.50	80.50	80.50	80.50	80.50
82.50	82.50	82.50	82.50	82.50	82.50	82.50	82.50	82.50	82.50	82.50	82.50	82.50
83.54	83.54	83.54	83.54	83.54	83.54	83.54	83.54	83.54	83.54	83.54	83.54	83.54
86.50	86.50	86.50	86.50	86.50	86.50	86.50	86.50	86.50	86.50	86.50	86.50	86.50
89.45	89.45	89.45	89.45	89.45	89.45	89.45	89.45	89.45	89.45	89.45	89.45	89.45
92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40	92.40
95.35	95.35	95.35	95.35	95.35	95.35	95.35	95.35	95.35	95.35	95.35	95.35	95.35
98.30	98.30	98.30	98.30	98.30	98.30	98.30	98.30	98.30	98.30	98.30	98.30	98.30
101.26	101.26	101.26	101.26	101.26	101.26	101.26	101.26	101.26	101.26	101.26	101.26	101.26
102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
105.17	105.17	105.17	105.17	105.17	105.17	105.17	105.17	105.17	105.17	105.17	105.17	105.17
109.40	109.40	109.40	109.40	109.40	109.40	109.40	109.40	109.40	109.40	109.40	109.40	109.40
113.64	113.64	113.64	113.64	113.64	113.64	113.64	113.64	113.64	113.64	113.64	113.64	113.64
117.87	117.87	117.87	117.87	117.87	117.87	117.87	117.87	117.87	117.87	117.87	117.87	117.87
122.11	122.11	122.11	122.11	122.11	122.11	122.11	122.11	122.11	122.11	122.11	122.11	122.11
126.34	126.34	126.34	126.34	126.34	126.34	126.34	126.34	126.34	126.34	126.34	126.34	126.34

Series betw. Bermuda + Pescadero cuts

✓ ✓ +43 D.J.H. Guizot	130.0	96 ^v
✓ ✓ ✓ ✓	135.0	46 ^v
23,	142.80	55 ^b
+50	149.64	95 ^b
24	156.49	114 ³
+33 = BREAK	161.0	169 ³
+50	162.22	172 ¹
75	165.79	185 ⁸
+50	169.36	194 ⁷
+73 = M.H.	171.0	192 ⁸
26	173.81	182 ¹
+50	179.01	156 ⁰
27	184.22	125 ⁵
+50	189.42	204 ⁶
28	194.63	106 ⁵
+13 = D.F.	196.0	108 ⁴

28

147.00 22 ^v 146.16 12.42 158.61 21.6 153.85 11.25 170.80 22.0 150.0 11.0 151.76 22.1 151.75 11.2 170.85 20.3 191.75 12.1 184.89 22.3 189.54 20.5 181.1 16.6 186.6 16.9 187.93 16.8 187.08 20.1 181.49 19.1 180.36	130.0 17.00 7.38 9.62	135.0 12.00 7.38 4.62	142.80 15.81 7.35 8.56	149.64 20.76 10.90 9.56	156.49 13.91 2.28 11.73	161.0 20.76 3.83 16.93
162.22 17.54 2.23 17.31	165.79 27.09 8.51 18.58	169.36 22.52 4.05 19.47	171.0 21.88 2.50 19.38	173.81 31.08 12.87 18.21	179.01 184.22 189.42 194.63 196.0 20.65 9.81 10.84	174.01 184.22 189.42 194.63 196.0 15.47 22.02 11.37 10.65 20.65 9.81 10.84

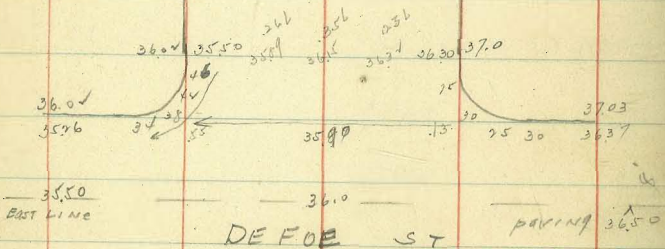
23032 Pescadero + Santa Barbara near Mill

DEL MONTE PAVING

EBERS ST

.8 ct face
draw
1.6 cross

Del Monte



BRYANT
ALLEY PAVING
WASHINGTON
LOUIS

ALLEY PAVING
BIRK & FLORENCE HATS

15' wide

2/12/20

Moore

W

E

NL Washington = 0+00 267.58 Meet paving/ing 268.58 = paving

20 N = BREAK W ONLY 270.70 +4.17 271.0 ✓ +6:0

60" BREAK 275.60 +0.55 275.90 +1.46

100 276.78 +0.04 277.08 +0.65

150 277.96 +1.3 ✓ 278.26 +0.75

198 279.14 -0.41 279.44 +0.99

244 280.32 -0.30 280.62 +0.26

290 281.50 +0.64 281.80 +0.02

326 282.10 -0.26 282.40 -0.41

360 282.70 +1.06 283.00 +0.71

390 282.95 +1.07 283.25 +1.33

420 283.20 -0.25 283.50 +0.81

460 283.40 -0.49 283.70 +0.07

500 = SUMMIT 283.60 -0.91 283.90 +0.62

536.67 283.77 -0.46 283.77 +0.51

573.33 282.33 -0.23 282.63 +0.76

610 282.20 +0.47 282.50 +2.14

640 = S.V. LEWIS 280.90 +2.65 281.20 +3.06

276.99 NWBP Washington + Hildcross

277.88

278.76

279.64

280.52

281.40

282.28

283.16

284.04

284.92

285.80

286.68

287.56

288.44

267.58 270.70 275.60 276.78 277.96 279.14

10.00 7.18 6.53 5.05 3.87 2.69

Bank 3.01 5.68 5.01 2.55 3.10

+4.17 +0.55 +0.04 +1.32 +0.41

268.58 271.0 275.90 277.08 278.26 279.44

4.30 6.86 5.93 4.75 3.57 2.29

45.00 4.27 4.10 2.32 1.20 0.40

+1.46 +0.65 +0.75 +0.99

280.20 281.50 282.10 282.70 282.95 283.20

1.81 6.54 5.94 5.34 5.09 4.82

1.51 5.90 6.20 4.38 2.02 5.09

-0.30 +0.64 -0.26 +1.06 +1.07 -0.26

280.62 281.50 282.40 283.00 282.75 282.50

1.71 6.24 5.64 5.04 4.79 4.54

0.95 6.22 6.05 4.33 3.56 3.73

+0.26 +0.02 -0.21 +0.71 +1.23 +0.81

282.40 282.40 282.47 282.53 282.20 280.90

4.64 4.44 4.90 5.04 5.17 7.47

5.12 6.35 5.36 5.37 4.70 4.22

-0.77 -1.91 -0.46 -0.23 +0.47 +0.65

282.70 282.90 282.77 282.63 282.50 281.20

4.34 4.14 4.60 4.74 4.87 7.17

4.27 3.54 4.09 4.00 2.75 4.11

+0.07 +0.62 +0.57 +0.74 +2.12 +3.06

284.01

284.01 SEBP Lewis + Hildcross

Alloy Paving Bk & Florence Hgts
CHANGE OF GRADE

	W	E
257 N of Washington		280.9 ✓
290 N	281.50	281.50 ✓
325	282.0 ✓	282.10 ✓
360	282.50 ✓	282.70 ✓
390	282.85 ✓	282.95 ✓
420	283.20 ✓	283.20 ✓
460		283.55 ✓
500		283.90 ✓
St Lewis	282.40	282.70

276.99
1.77
278.76
2.01
280.75
12.06
292.81
2.64
295.45
5.21
280.24

31

2/17/46
Moore

E	280.94 5.27	281.50 4.91	282.10 4.21	282.70 3.71	282.95 3.46
E	283.20 3.71	283.55 4.80	283.90 4.51		
W	281.50 3.91	282.0 4.71	282.50 3.91	282.85 3.56	283.20 3.71
W	282.40 5.85 4.80 1.00				
E	282.70 5.53 4.01 1.55		281.20 7.05 4.00 3.05		

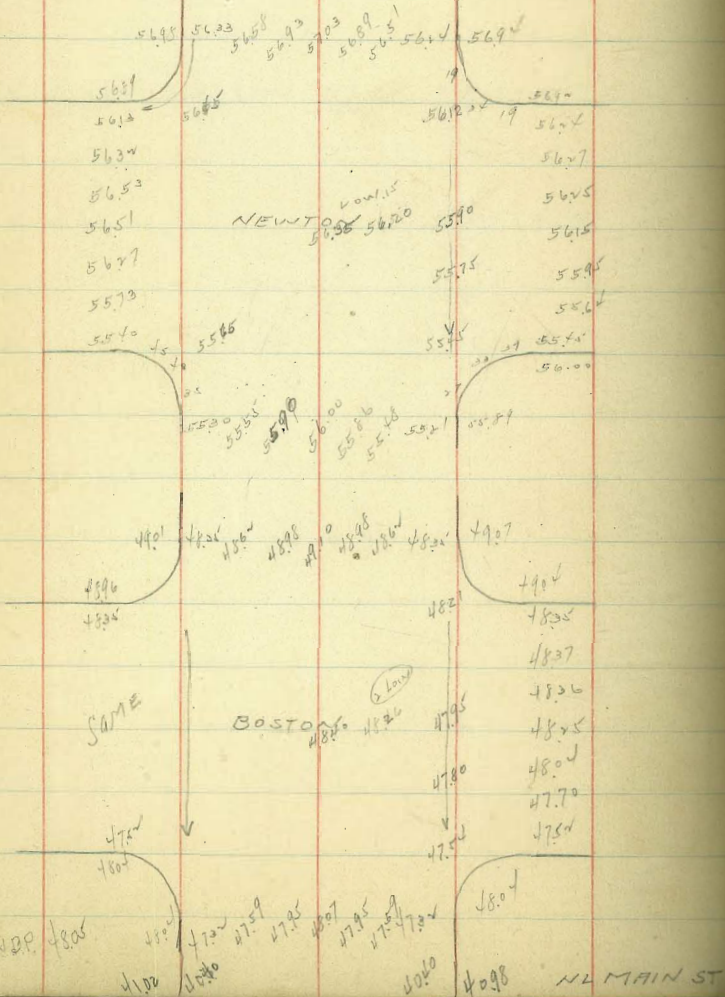
30th ST PAVING

NATIONAL

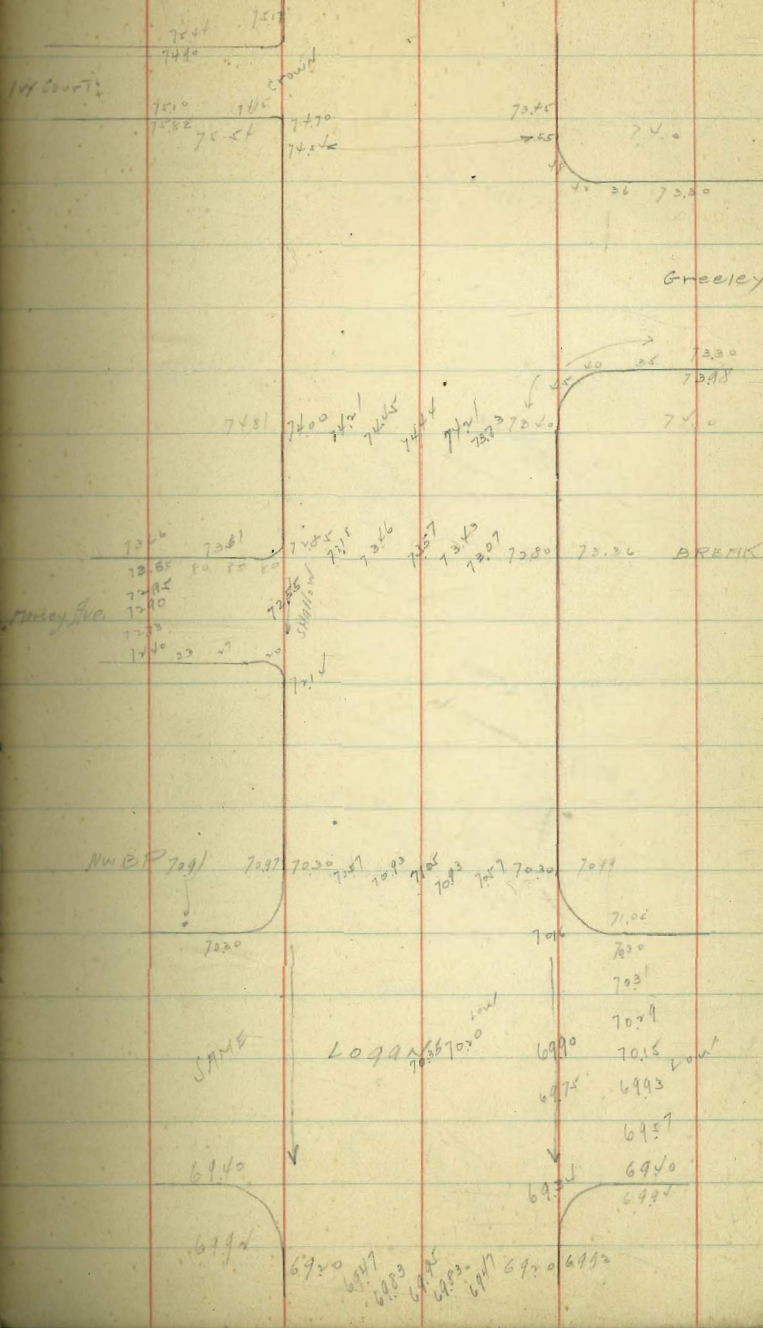
6294 6042 6014 6004 6001 6000 6000 6000 6000 6000

Planting culvert 6295

6177 6068 6041 6011 6001 6000 6000 6171 = BREAK

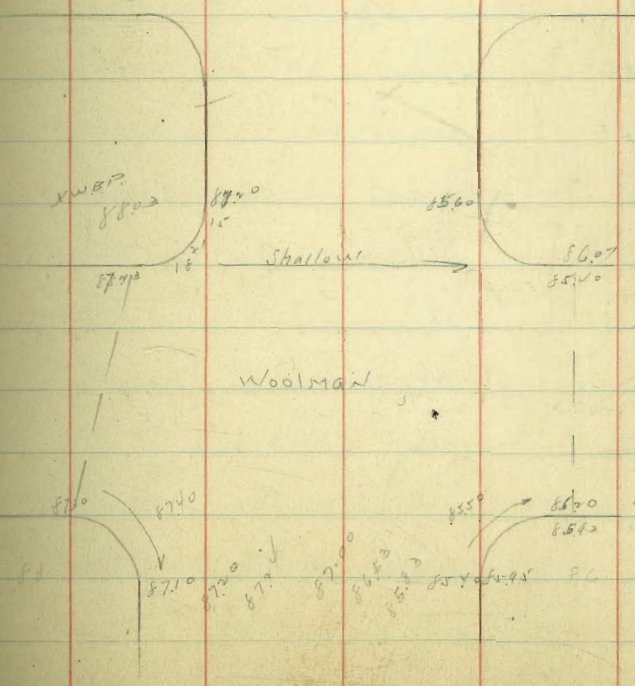
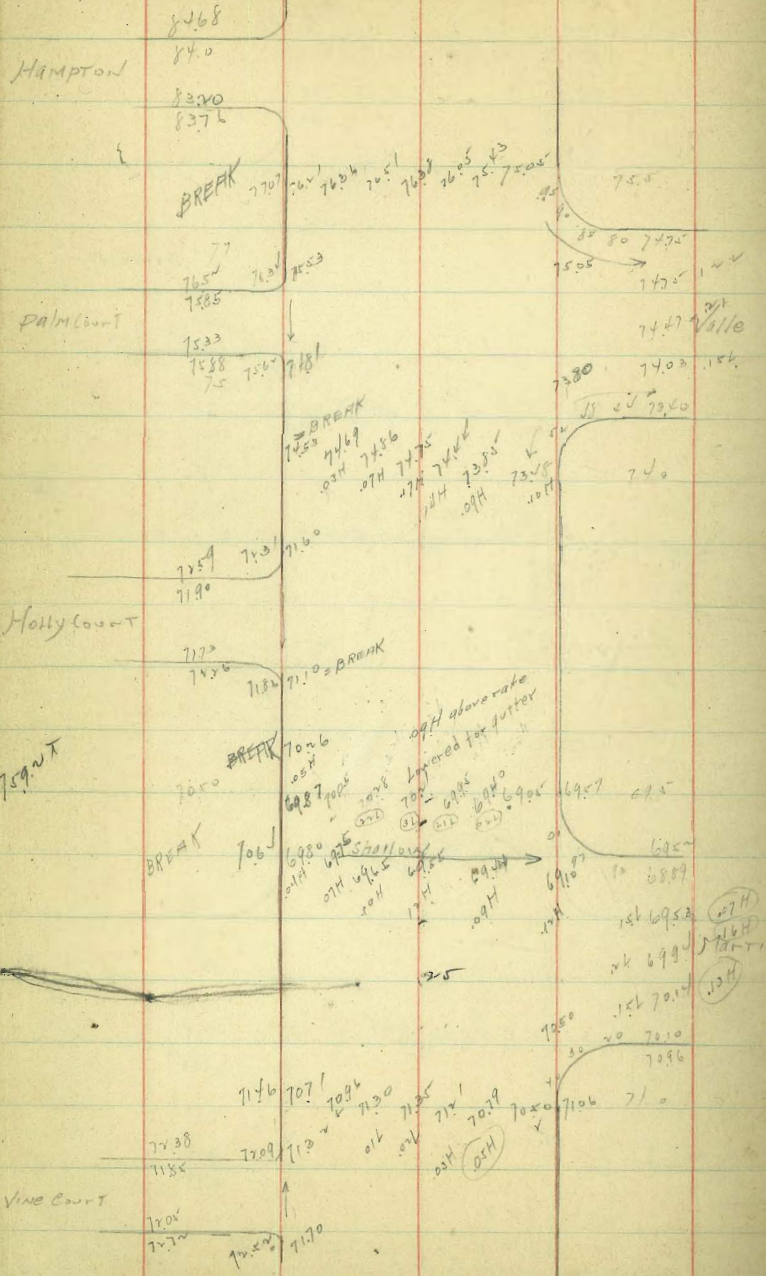


30th PAVING



30th Paving

30th Paving



Howard Ave Grading

	NL	CB N	CB S	SL
EL MISS		319.00	318.00	
50 E		321.0	320.16	
100 E		323.0	322.33	
150		325.0	324.50	
200		327.0	326.67	
250		329.0	328.83	
WL Louisiana		331.0	331.0	
26 ✓		331.0	330.0	
50 F		326.25	325.75	
100		321.50	321.50	
130 = BREAK		318.65	318.95	
155 ✓		316.64	317.14	
180 ✓		315.31	315.90	
205 ✓		314.69	315.27	
230 ✓		314.78	315.24	
265		315.39	315.62	
300 = NW TEXAS		316.0	316.0	
31 ✓ TEXAS		318.0	318.0	
50 G		320.0	319.91	
100		322.0	321.83	

	NL	CB	SL	Flowline	Other
270	319.85	322.5	322.5	322.5	322.5
280	319.0	324.0	324.0	324.0	324.0
290	326.50	317.5	15.90	16.80	15.50
300	326.0	317.5	14.20	17.40	16.15
310	316.0	315.0	320.25	320.25	320.25
320	316.0	316.0	320.16	320.08	318.9
330	331.0	326.75	321.50	318.65	318.08
340	330.1	325.75	321.50	318.75	318.45
350	316.0	315.31	314.69	314.77	315.39
360	316.73	315.90	315.07	315.24	315.64
370	315.40	315.40	315.40	315.40	315.40
380	315.30	315.30	315.30	315.30	315.30
390	310.79	310.79	310.79	310.79	310.79
400	310.54	310.54	310.54	310.54	310.54
410	310.03	310.03	310.03	310.03	310.03
420	309.54	309.54	309.54	309.54	309.54
430	308.50	308.50	308.50	308.50	308.50
440	314.71	314.71	314.71	314.71	314.71
450	315.25	315.25	315.25	315.25	315.25

Howard Ave. Grading

	N 06	S 06
150	324.0	322.75
200	326.0	325.66
250	328.0	327.58
300 Wt. Ariz.	330.0	329.50
Elk ✓	332.0	331.50
50'S	336.75	336.10
100	341.51	340.64
150	346.26	345.28
200	351.02	349.88
250	355.78	354.48
310 Wt. Hamilton	361.50	360.0
Elk Ham.	363.0	361.50
55'	365.50	364.25
110 = BREAK	368.0	367.0
160 = BREAK	370.0	369.25
210 = BREAK	371.50	371.0
260	372.75	372.50
310 = Wt. Oregon	374.0	374.0

360.10 BM. SW 7' track Howard + Hamilton

330.74	330.74	330.74	330.74	330.74	330.74	330.74
330.89	330.89	330.89	330.89	330.89	330.89	330.89
331.31	331.31	331.31	331.31	331.31	331.31	331.31
331.96	331.96	331.96	331.96	331.96	331.96	331.96
332.30	332.30	332.30	332.30	332.30	332.30	332.30
332.76	332.76	332.76	332.76	332.76	332.76	332.76
333.17	333.17	333.17	333.17	333.17	333.17	333.17
333.37	333.37	333.37	333.37	333.37	333.37	333.37
333.71	333.71	333.71	333.71	333.71	333.71	333.71
334.18	334.18	334.18	334.18	334.18	334.18	334.18
334.9	334.9	334.9	334.9	334.9	334.9	334.9
335.0	335.0	335.0	335.0	335.0	335.0	335.0
335.25	335.25	335.25	335.25	335.25	335.25	335.25
335.75	335.75	335.75	335.75	335.75	335.75	335.75
336.50	336.50	336.50	336.50	336.50	336.50	336.50
337.25	337.25	337.25	337.25	337.25	337.25	337.25
337.75	337.75	337.75	337.75	337.75	337.75	337.75
338.25	338.25	338.25	338.25	338.25	338.25	338.25
338.75	338.75	338.75	338.75	338.75	338.75	338.75
339.25	339.25	339.25	339.25	339.25	339.25	339.25
339.75	339.75	339.75	339.75	339.75	339.75	339.75
340.25	340.25	340.25	340.25	340.25	340.25	340.25
340.75	340.75	340.75	340.75	340.75	340.75	340.75
341.25	341.25	341.25	341.25	341.25	341.25	341.25
341.75	341.75	341.75	341.75	341.75	341.75	341.75
342.25	342.25	342.25	342.25	342.25	342.25	342.25
342.75	342.75	342.75	342.75	342.75	342.75	342.75
343.25	343.25	343.25	343.25	343.25	343.25	343.25
343.75	343.75	343.75	343.75	343.75	343.75	343.75
344.25	344.25	344.25	344.25	344.25	344.25	344.25
344.75	344.75	344.75	344.75	344.75	344.75	344.75
345.25	345.25	345.25	345.25	345.25	345.25	345.25
345.75	345.75	345.75	345.75	345.75	345.75	345.75
346.25	346.25	346.25	346.25	346.25	346.25	346.25
346.75	346.75	346.75	346.75	346.75	346.75	346.75
347.25	347.25	347.25	347.25	347.25	347.25	347.25
347.75	347.75	347.75	347.75	347.75	347.75	347.75
348.25	348.25	348.25	348.25	348.25	348.25	348.25
348.75	348.75	348.75	348.75	348.75	348.75	348.75
349.25	349.25	349.25	349.25	349.25	349.25	349.25
349.75	349.75	349.75	349.75	349.75	349.75	349.75
350.25	350.25	350.25	350.25	350.25	350.25	350.25
350.75	350.75	350.75	350.75	350.75	350.75	350.75
351.25	351.25	351.25	351.25	351.25	351.25	351.25
351.75	351.75	351.75	351.75	351.75	351.75	351.75
352.25	352.25	352.25	352.25	352.25	352.25	352.25
352.75	352.75	352.75	352.75	352.75	352.75	352.75
353.25	353.25	353.25	353.25	353.25	353.25	353.25
353.75	353.75	353.75	353.75	353.75	353.75	353.75
354.25	354.25	354.25	354.25	354.25	354.25	354.25
354.75	354.75	354.75	354.75	354.75	354.75	354.75
355.25	355.25	355.25	355.25	355.25	355.25	355.25
355.75	355.75	355.75	355.75	355.75	355.75	355.75
356.25	356.25	356.25	356.25	356.25	356.25	356.25
356.75	356.75	356.75	356.75	356.75	356.75	356.75
357.25	357.25	357.25	357.25	357.25	357.25	357.25
357.75	357.75	357.75	357.75	357.75	357.75	357.75
358.25	358.25	358.25	358.25	358.25	358.25	358.25
358.75	358.75	358.75	358.75	358.75	358.75	358.75
359.25	359.25	359.25	359.25	359.25	359.25	359.25
359.75	359.75	359.75	359.75	359.75	359.75	359.75
360.25	360.25	360.25	360.25	360.25	360.25	360.25
360.75	360.75	360.75	360.75	360.75	360.75	360.75
361.25	361.25	361.25	361.25	361.25	361.25	361.25
361.75	361.75	361.75	361.75	361.75	361.75	361.75
362.25	362.25	362.25	362.25	362.25	362.25	362.25
362.75	362.75	362.75	362.75	362.75	362.75	362.75
363.25	363.25	363.25	363.25	363.25	363.25	363.25
363.75	363.75	363.75	363.75	363.75	363.75	363.75
364.25	364.25	364.25	364.25	364.25	364.25	364.25
364.75	364.75	364.75	364.75	364.75	364.75	364.75
365.25	365.25	365.25	365.25	365.25	365.25	365.25
365.75	365.75	365.75	365.75	365.75	365.75	365.75
366.25	366.25	366.25	366.25	366.25	366.25	366.25
366.75	366.75	366.75	366.75	366.75	366.75	366.75
367.25	367.25	367.25	367.25	367.25	367.25	367.25
367.75	367.75	367.75	367.75	367.75	367.75	367.75
368.25	368.25	368.25	368.25	368.25	368.25	368.25
368.75	368.75	368.75	368.75	368.75	368.75	368.75
369.25	369.25	369.25	369.25	369.25	369.25	369.25
369.75	369.75	369.75	369.75	369.75	369.75	369.75
370.25	370.25	370.25	370.25	370.25	370.25	370.25
370.75	370.75	370.75	370.75	370.75	370.75	370.75
371.25	371.25	371.25	371.25	371.25	371.25	371.25
371.75	371.75	371.75	371.75	371.75	371.75	371.75
372.25	372.25	372.25	372.25	372.25	372.25	372.25
372.75	372.75	372.75	372.75	372.75	372.75	372.75
373.25	373.25	373.25	373.25	373.25	373.25	373.25
373.75	373.75	373.75	373.75	373.75	373.75	373.75
374.25	374.25	374.25	374.25	374.25	374.25	374.25
374.75	374.75	374.75	374.75	374.75	374.75	374.75

Moore

300) 12000.00
12000.00

Campus ALLEY PAVING BK 44 UNIV HQTS 20' wide

34901 NW Campus + Monroe

4820
513

36

Month	WL	EL
NW MONROE	348.20 paving	348.40 paving
2.50 N	348.55	348.54
1.00	348.91	348.89
1.50	349.26	349.22
2.00	349.61	349.58
2.50	349.97	349.94
3.00	350.32	350.27
3.50	350.68	350.61
4.00	351.03	350.96
4.50	351.38	351.30
5.00	351.74	351.65
5.50	352.10	352.0
6.00 = St. Madisol	352.48 paving	352.35 paving

	nl	48.55	48.91	49.26	49.61	49.97	50.32	50.68
		4.75	4.24	4.07	3.74	5.95	5.60	5.24
		2.27	2.38	2.67	4.20	5.08	2.24	4.55
		+1.51	+1.23	+1.40	-0.45	+0.87	+1.38	+0.67
	E	48.54	48.59	49.23	49.58	49.94	50.27	50.61
		4.74	4.24	4.10	3.75	6.00	5.65	5.31
		6.01	4.16	3.00	2.83	4.00	2.85	3.39
		-1.24	+0.25	+1.10	-0.94	+1.40	+0.80	+1.94
	W	51.03	51.38	51.74	52.10	52.45		
		4.89	4.54	4.18	3.84	3.49		
		4.44	4.34	3.89	3.15			
		+0.47	+0.70	+0.79	+0.67			
	E	50.96	51.30	51.65	52.0	52.35		
		4.96	4.64	4.27	3.94	3.57		
		4.00	4.26	3.43	2.68			
		+0.96	+0.36	+1.54	+1.74			

Cleveland
Campus

ALLEY PAVING
BIK 43 UNIV. 1975

3618
2/18/76 Moore

34901 W Monroe + Campus

37

	W/L	EL
NL Monroe	348.88	348.84
50 N	349.08	349.07
100	349.30	349.30
150	349.50	349.53
200	349.70	349.76
250	349.91	349.99
300	350.11	350.22
350	350.32	350.45
400	350.52	350.68
450	350.73	350.91
500	350.93	351.14
550	351.14	351.37
600 - St. Madison	351.34 paving	351.60 paving

35003 T

	W	4903	4930	4950	4970	4991	5011
	4888	4903	4930	4950	4970	4991	5011
	5.23	5.23	5.01	4.81	4.61	4.40	4.20
	✓	4.70	4.77	4.76	4.74	3.30	2.76
		40.83	+0.14	+0.05	+0.47	+1.04	+1.44
	4884	4907	4920	4953	4976	4999	5022
	5.27	5.24	5.01	4.78	4.55	4.32	4.09
	✓	5.14	4.39	4.71	4.55	2.78	3.07
		+0.10	+0.62	+0.07	-0.30	+1.54	+1.22
	5032	5052	5073	5092	5114	5134	
	5.71	5.51	5.30	5.10	4.89	4.69	
	5.37	3.25	4.43	5.14	4.93		
	+0.34	+1.76	40.87	-0.04	-0.04		
	5045	5068	5091	5114	5137	5160	
	5.55	5.35	5.12	4.89	4.66	4.43	
	5.47	4.23	5.30	5.12	4.95		
	+0.11	+0.72	-0.18	-0.23	+0.29		
		350.68					
		9					
		351.60					
		3.50					
		355.40					
		350.52					
		4.88					

WATER MAIN CONSTRUCTION
49th St Imperial to "R" ST. 5'E of 4

Modro

38

Imperial Ave Ex. 18 W MAIN = 0 + 00		151.30 157.03 X
50' S	148.50	11.5 7.5 4.0
100 S	147.30	11.7 8.5 3.2
125 S (B)	147.0	12.0 8.0 4.0
150	147.27	11.7 8.0 3.7
200	147.82	11.4 8.0 3.4
250	148.38	10.6 7.7 2.9
305 (B)	149.0	10.0 7.0 3.0
350		10.0 7.0 3.0
400		10.0 7.0 3.0
450		10.0 7.0 3.0
500		10.0 7.0 3.0
525 S (B)	149.0	10.0 7.0 3.0
550	148.62	10.0 7.0 3.0
600	147.82	11.1 7.8 3.3
650	147.12	11.4 8.0 3.4
700	146.37	12.6 8.6 4.0
725 S (B)	146.0	13.0 8.0 5.0
750	145.87	13.1 8.0 5.1

800 S	145.62	
850	145.37	
900	145.12	
925 (B)	145.0	
950	144.28	
1000	142.85	
1065 (B)	141.0	
1100	137.96	
1150	133.65	
1200	129.33	
1250	125.02	
1285 (B)	122.0	
1325 = 103 + 4 R = A 95 R	120.0	
1390 W (B)	125.0	
1450 W (B)	126.0	
1510 (B)	119.0	
1550 (B)	119.0	
1610 (B)	132.0	
1645	134.0	
1680 side of Gloria	136.0	

154.03 X	
12.4	
146.63	
13.0	
137.75 X	
13.2	
135.17	
13.6	
135.57 X	
13.2	
122.75	
13.9	
7.18	
131.96	
12.0	
131.80	
12.5	
123.3	
123.53	
14.7	
12.9	
12.7	
16.2	
7.5	
18.7	
18.0	
15.0	
14.6	
10.7	
16.5	
14.1	
12.2	
14.3	
6.2	
10.5	
11.0	
13.5	
11.5	
12.0	
15.5	
12.3	
12.2	
10.5	
7.3	
13.2	
9.5	
10.2	
12.8	
10.0	
12.9	
10.1	
10.3	
11.8	
11.3	
12.1	
9.8	
12.4	
12.5	
12.6	
12.7	
12.8	
12.9	

6.97
108.74

WEST ON WOOLMAN

WATER MAIN CONSTRUCTION
Woolman 49th West to 45th

Station	Grade	Notes
1700	135.94	7.9 1.5 +6.4
1750	135.78	8.1 1.0 +7.1
1800	135.62	8.2 1.6 +6.6
1850	135.46	8.4 2.3 +6.1
1900	135.30	8.5 2.5 +6.0
1950	135.14	8.7 3.0 +5.7
1990 = (B)	135.0	8.8 3.2 +5.6
2005 = 10'E & 48th St	134.6	9.2 3.4 +5.8
2050	133.40	7.1 3.0 +4.1
2100	132.08	8.5 6.0 +2.5
2150	130.76	9.8 7.3 +2.5
22	129.44	11.1 8.0 +3.1
+50	128.12	12.4 8.3 +4.1
23	126.80	13.7 10.1 +3.6
+30 = 10'E & Escudé	126.0	14.5 12.7 +1.8
+65	125.30	15.2 11.2 +4.0
24+00	124.60	15.9 12.9 +3.0
+50	123.60	17.0 12.5 +4.5
25	122.61	8.2 4.1 +4.1
+50	121.63	9.2 3.0 +6.2

Station	Grade	Notes
26	120.65	10.2 4.6 +5.6
+69 = 10'E & 47th	119.30	11.5 1.5 +10.0
+50 = 5' W & 47th	119.00	11.8 2.5 +9.3
27	118.0	5.4 2.6 +2.8
+50	114.90	9.50 5.1 +4.4
28	111.78	11.6 2.9 +8.7
+50	108.67	14.7 12.2 +2.5
29+09 (B)	105.0	7.8 2.7 +5.1
+51.5	103.50	9.3 9.1 +0.2
29 = 10'E & East St	102.0	10.9 8.1 +2.8
30+50	100.77	12.0 9.2 +2.8
31	99.68	13.1 10.9 +2.2
+50	98.59	14.3 13.2 +1.1
32	97.50	4.6 2.2 +2.4
+69 (B)	96.0	6.1 4.1 +2.0
33 = 9 = 10'E & 46th	95.0	7.1 2.6 +4.5
33+89 (B)	94.0	8.1 3.0 +5.1
34+50		11.5 5.5 +6.0
35		7.1 5.4 +1.7
+50		8.1 5.2 +2.9

13076
590
11186

121.90 39
1.51
123.41
12.12
111.29 T.P.
1.53
112.82
12.01
100.81 T.P.

100.51
1.27
102.24

= 50' wide

WOODMAN WATER MAIN

Grade

36		8.1 5.0 +3.1
+64 = 10' E of West St	94.0	8.1 4.8 +3.3
37	93.60	9.5 4.8 +4.0
+50	93.10	9.0 4.6 +4.4
38 + 09 @	92.50	9.6 5.6 +4.0
+50	90.98	12.1 9.5 +2.6
39	89.12	13.0 9.7 +3.3
+50	87.26	14.8 11.8 +3.0
+84 = 10' E of West St	86.0	1.5 5.3 +3.2

W 00 / 140'

102.10
13.75
88.35
Woodman
Vista
77.25
1.25
74.50

Franklin = 0 + 00

50.5
100
150
200 @
250
300
350
400 @
450
500
550
600
645 = 10' S of E Woodman @
700
750
800
860 = @
900

WATER MAIN CONSTRUCTION

10' E of E

GLORIA ST.

40

GRADE

146.0
145.75
145.50
145.25
145.0
143.75
142.50
141.25
140.0
139.18
138.35
137.54
136.73
136.0
135.23
134.53
133.83
133.0
133

139.52 T.P.
15.63
154.15 X
13.32
139.61
0.58
140.49

6.7 2.8 -3.9
6.1 4.3 +1.8
6.7 2.8 +3.9
7.0 +2.8
7.7 2.7 +4.0
8.2 4.8 +3.4
8.7 +7.0
10.9 2.8 +8.0
12.0 8.5 +3.5
13.0 2.3 +10.7
13.8 10.7 +3.1
14.6 11.2 +3.4
15.4 12.6 +2.8
16 +5.2
17.0 10.7 +6.3
6.8 1.8 +5.0
6.7 4.4 +2.3
7.5 2.1 +5.4
7.5 4.8 +2.7

GLORIA ST. CONT'D

Grade		
950	133.0	7.5 2.0 +5.5
1000	133.0	7.5 1.9 +5.6
1060 B	133.0	7.5 1.6 +5.9
1120	131.26	9.4 2.0 +7.4
1180 B	129.53	11.0 1.7 +9.3
1222.5	127.06	12.1 1.8 +10.3
1265 S=NL ST.	124.60	15.9 13.2 +2.7

140.49 x
12.21
155.28
1.10
129.35 x
1.17
149.21
11.43
140.64
1.22
139.36
1.14
148.48

48th ST MAIN

4+20 B	135.50	10.0 9.6 +3.4
+50	135.40	13.1 2.5 +10.6
5	135.19	13.8 2.0 +11.8
+50	135.0	13.5 2.9 +10.6
6	134.81	13.7 2.1 +11.6
6+443=5' N & R	134.65	6.1 1.1 +5.0
6+592=10' S & R	134.60	6.1 2.2 +3.9
7	133.04	7.7 3.7 +4.0
+50	131.08	9.7 6.2 +3.5
8	129.14	11.6 2.5 +9.1
+50	127.20	13.5 9.7 +3.8
9	125.26	15.0 2.8 +12.2
+50	123.32	12.4 5.1 +7.3
10	121.38	19.2 1.1 +18.1
+50	119.44	10.0 1.5 +8.5
11 - B	117.5	11.9 5.8 +6.1
+50	116.80	12.6 5.5 +7.1
12	116.10	13.2 6.7 +6.5
+50	115.40	14.0 10.9 +3.1
+793=NL ST.	115.0	14.4 11.2 +3.2

48th ST WATER MAIN. 10' E of 4

17 N of 1st Q ST = 0+00	137.0	11.5 2.0 +9.5
40 S	137.25	11.2 6.1 +5.1
80	137.50	11.0 5.3 +5.7
120	137.75	10.8 9.2 +1.6
160 B	138.0	10.5 6.0 +4.5
200	137.65	10.8 4.9 +5.9
+50	137.15	11.4 6.0 +5.4
3	136.67	11.8 6.5 +5.3
+50	136.18	12.2 8.3 +3.9
4	135.70	12.7 9.7 +3.0

ESCUELA WATER MAIN

Grade	127.45 = 10' E 2
EX Main Imperial 125.0	127.45 - 2.45 ----- 125.0
+50	122.0 + 2.5 ----- 124.5
100	119.0 + 3.9 ----- 122.9
+50	118.67 + 2.3 ----- 120.97
2	118.33 + 2.1 ----- 120.43
+50	118.0 + 2.0 ----- 120.0
3	117.67 + 2.1 ----- 119.77
+50	117.33 + 2.0 ----- 119.33
4	117.0 + 2.0 ----- 119.0
+50	116.67 + 2.3 ----- 118.97
5	116.33 + 2.3 ----- 118.63
+50	116.0 + 2.1 ----- 118.1
6	115.67 + 2.0 ----- 117.67
+50	115.33 + 2.0 ----- 117.33
7	115.0 + 2.0 ----- 117.0
+50	114.67 + 2.0 ----- 116.67
8	114.33 + 2.0 ----- 116.33
+50	114.0 + 2.0 ----- 116.0
+80	113.67 + 2.3 ----- 115.97
9 + 30	113.33 + 3.1 ----- 116.43

9 + 80

10

+50

11

+50

12

+50

13 + 18 = 5' N 18' E 5'

Grade

117.0

117.53

118.86

120.20

121.53

122.86

124.20

126.0

125.4
+ 0.25

125.65
+ 9.50

135.15

11.9
+ 2.3

14.2

11.4
+ 5.1

16.5

10.1
+ 6.1

16.2

8.7
+ 5.0

13.7

7.4
+ 5.5

12.9

6.1
+ 2.0

8.1

4.7
+ 0.3

5.0

12.3
+ 2.5

14.8

42

47th ST WATER MAIN		115.60	Sagittarius	Imp to Logan	5/6 hr	Moore	43
105 ± Imp = 0+00	117.50	6.8 3.7 +3.1	119.25	10	107.28	15.0 12.0 +3.1	122.34
East. 39 MAIN			110.78			15.3 12.0 +3.1	0.16
+50 S	112.42	6.9 1.8 +4.1	115.6	10+40 (B)	107.0		122.18
			122.34				7.91
1	112.25	7.0 3.0 +3.0		480	108.0	14.3 11.9 +2.4	130.09
+50	112.27	7.1 3.8 +3.3		11+20	109.0		0.58
2 (B)	112.20	7.1 3.7 +3.4		+60	111.50	10.8 7.6 +3.2	129.51
+50	111.65	7.7 3.8 +3.8		12	114.0	13.3 10.2 +3.1	5.16
3	111.10	8.2 4.7 +3.5		+70	116.5	10.8 7.6 +3.2	134.67
+50	110.55	8.8 5.3 +3.5					
4 (B)	110.0	9.3 6.1 +3.1		+80 (B)	119.0	11.1 6.6 +4.5	
+60	109.50	9.8 7.4 +2.4		13+16.725 N & R ST.	119.0	11.1 6.6 +4.5	
5+20 (B)	109.0	10.3 7.8 +2.5		+31.7 = 10 S & R ST	119.0	11.1 6.6 +4.5	
+50		10.3 7.1 +3.2		14+00 (B)	119.0	11.1 7.5 +3.6	
6		10.3 6.8 +3.5		+50	118.25	11.9 8.2 +3.7	
+50		10.3 6.0 +4.3		15	117.50	12.6 10.1 +2.5	
7		10.3 7.1 +3.2		+50	116.75	13.4 11.2 +2.2	
+60 (B)	109.0	10.3 7.6 +2.7		16	116.0	14.1 12.2 +1.9	
8	108.70	11.2 8.0 +3.2		+50	118.0	12.1 10.6 +1.5	
+50	108.35	14.0 11.8 +2.2		17	120.0	10.1 8.1 +2.0	
9	108.0	14.3 12.3 +2.0		+50	122.0	8.1 6.6 +1.5	
+50	107.63	14.7 12.7 +2.0		18	124.0	6.1 5.2 +0.9	
				+50	124.50	5.6 1.6 +4.0	

47th ST CONT.

		134.67 T
19	125.0	$\frac{97}{4.2}$ $\frac{4.2}{+5.5}$
+50	125.50	$\frac{9.2}{3.2}$ $\frac{3.2}{+6.0}$
20	126.0	$\frac{8.7}{1.9}$ $\frac{1.9}{+6.8}$
+50		$\frac{8.7}{3.0}$ $\frac{3.0}{+5.7}$
21		$\frac{8.7}{3.3}$ $\frac{3.3}{+5.4}$
+50		$\frac{8.7}{3.5}$ $\frac{3.5}{+4.2}$
22	126.0	$\frac{8.7}{6.0}$ $\frac{6.0}{+5.7}$
+50	124.60	$\frac{10.1}{8.0}$ $\frac{8.0}{+5.1}$
23	123.22	$\frac{11.5}{9.5}$ $\frac{9.5}{+2.0}$
+40	122.11	$\frac{12.6}{9.8}$ $\frac{9.8}{+2.8}$
+80	121.0	$\frac{13.7}{10.8}$ $\frac{10.8}{+2.9}$
24		$\frac{13.7}{11.0}$ $\frac{11.0}{+2.7}$
+50		$\frac{13.7}{11.3}$ $\frac{11.3}{+2.4}$
25		$\frac{13.7}{10.8}$ $\frac{10.8}{+2.9}$
+50		$\frac{13.7}{10.5}$ $\frac{10.5}{+3.2}$
26 + 25.7 = mis. of logan	121.0	$\frac{13.7}{9.8}$ $\frac{9.8}{+3.9}$

105.26
10.05
115.31
1.55
114.61
7.59
122.50

EAST ST

	10'E of E	
120 + Nitrogen = 0100	114.0	$\frac{19.5}{2.0}$ $\frac{2.0}{+2.7}$
56 W	111.50	$\frac{11.0}{7.0}$ $\frac{7.0}{+4.0}$
112 W = Break	111.00	$\frac{11.5}{6.6}$ $\frac{6.6}{+4.9}$
171	109.50	$\frac{13.0}{9.2}$ $\frac{9.2}{+3.8}$
232 = Break	108.0	$\frac{14.5}{11.5}$ $\frac{11.5}{+3.0}$
294	108.0	$\frac{14.5}{12.3}$ $\frac{12.3}{+2.2}$
352 = Break	108.0	$\frac{14.5}{11.8}$ $\frac{11.8}{+2.7}$
398.67	109.33	$\frac{13.2}{10.1}$ $\frac{10.1}{+3.1}$
448.33	110.67	$\frac{11.8}{2.3}$ $\frac{2.3}{+4.5}$
492 = Break	112.0	$\frac{10.5}{5.5}$ $\frac{5.5}{+5.0}$
542		$\frac{10.5}{4.0}$ $\frac{4.0}{+6.5}$
592		$\frac{10.5}{4.1}$ $\frac{4.1}{+6.4}$
642		$\frac{10.5}{4.1}$ $\frac{4.1}{+6.4}$
692 = Break	112.0	$\frac{10.5}{5.7}$ $\frac{5.7}{+4.8}$
752	109.50	$\frac{13.0}{9.7}$ $\frac{9.7}{+3.3}$
812 = Break	107.0	$\frac{15.5}{11.9}$ $\frac{11.9}{+3.6}$
862	106.0	$\frac{7.2}{3.5}$ $\frac{3.5}{+3.7}$
912	105.0	$\frac{8.2}{5.4}$ $\frac{5.4}{+2.8}$
962	104.0	$\frac{9.2}{6.5}$ $\frac{6.5}{+2.7}$
1012 = Break	103.0	$\frac{10.2}{2.1}$ $\frac{2.1}{+3.1}$

44

122.50 T
11.87
110.63
2.55
113.18

EAST ST. CONT

106 ⁿ Wagon	103.0	10.2 7.3 +7.9
111 ⁿ		10.2 7.3 +7.9
116 ⁿ		10.2 7.3 +7.9
121 ⁿ = Break	103.0	10.2 7.3 +7.9
125 ⁿ	102.50	10.7 7.7 +2.0
129 ⁿ = Break = Woodman	102.0	11.2 8.2 +2.8
133 ⁿ = NW Woodman = angle	101.15	11.1 8.7 +3.4
137 ⁿ	100.27	6.2 3.6 +2.6
141 ⁿ	99.4 ⁿ	7.1 3.7 +3.4
145 ⁿ	98.56 ⁿ	8.0 2.6 +3.6
149 ⁿ	97.70	8.8 4.2 +4.4
153 ⁿ	96.85 ⁿ	9.7 6.2 +3.5
157 ⁿ = Break	96.0	10.5 7.9 +2.6
162 ⁿ	95.25	11.3 4.8 +6.5
168 ⁿ	94.50	12.0 4.0 +8.0
173 ⁿ	93.75	12.8 4.6 +3.2
179 ⁿ = Break	93.0	13.5 8.2 +5.3
183 ⁿ	94.37	10.2 5.6 +6.6
187 ⁿ	95.75	10.8 4.2 +5.9
191 ⁿ	97.1 ⁿ	4.4 5.6 +3.8

11318 T

104.44
2.04
106.48
5.65
100.83
12.24
113.07

195ⁿ199ⁿ203ⁿ207ⁿ211ⁿ = Break216ⁿ221ⁿ226ⁿ231ⁿ236ⁿ241ⁿ = Break246ⁿ251ⁿ257ⁿ262ⁿ

Ex. Main Imperial

98.50

99.87

101.25

102.64

104.0

104.0

103.50

103.0

102.50

102.0

14.6
12.9
+1.7
13.2
9.0
+4.2
11.9
7.5
+4.4
10.5
6.5
+4.0
9.1
5.8
+3.3
9.1
4.7
+4.4
9.1
4.0
+5.1
9.1
4.2
+4.9
9.1
4.5
+4.6
9.1
5.0
+4.1
9.1
5.4
+3.7
9.6
6.1
+3.5
10.1
5.9
+4.2
10.6
7.0
+3.6
11.1
7.4
+3.7
113.07 T
7.7
105.30

10523 - paving

46th ST WATER MAIN

18526
109

SW Spikes
WOODMEN + EAST

46

EL. MAIN Imperial = 0100

92.0	16.4 14.2 +2.2	106.30 7.31 99.09
92.25	16.2 13.8 +2.4	97.26 4.55 101.81
92.50	15.9 13.1 +2.8	102.07
92.75	15.7 12.4 +3.3	99.67 2.42 102.09
93.0	15.4 10.5 +4.9	107.43
94.0	14.4 5.6 +8.8	
95.0	13.4 8.0 +5.4	
96.0	12.4 7.3 +5.1	
97.0	11.4 7.1 +4.3	
98.0	10.4 6.3 +4.1	
99.0	9.4 5.7 +3.7	
100.0	8.4 5.0 +3.4	
101.0	7.4 5.1 +2.3	
99.62	8.8 4.0 +4.8	
98.25	10.2 6.4 +3.8	
96.87	11.5 6.4 +5.1	
95.50	12.9 9.6 +3.3	
94.2	14.3 10.8 +3.5	
92.75	9.8 8.6 +1.2	
91.37	10.7 1.4 +9.3	

1040	= Break
1090	
1140	= Break
1188	
1236	
1284	
1332	Woodman = Break
1366	
1400	= Break
1470	
1540	
1610	
1680	= Break
1740	
1800	
1860	
1920	
1980	
2040	
2100	= Break

90.0
87.5
85.0
87.50
90.0
92.50
95.0
95.50
96.0
96.0
96.42
96.85
97.27
97.70
98.13
98.56
99.0

12.1 9.0 +3.1
14.6 11.8 +2.8
17.1 14.3 +2.8
14.6 11.1 +3.5
12.1 8.8 +3.3
9.6 6.8 +2.8
7.1 4.4 +2.7
6.6 3.8 +2.8
6.1 2.6 +3.5
6.1 2.5 +3.6
6.1 2.6 +3.5
6.1 2.3 +3.8
6.1 2.8 +3.3
5.7 2.4 +3.3
10.6 7.4 +3.2
10.1 7.6 +2.5
9.7 7.2 +2.5
8.1 6.4 +1.7
8.9 5.9 +3.0
5.4 5.5 +0.1

Hyd. SE Cor.

46th

cont.

107.3

WEST ST. WATER MAIN

47

91.55

99.87

7.5
5.2
+2.3

106.61
5.77
112.38

105 & Woolman = 0 + 100

94.0

6.5
3.1
+3.4

100.52

92.10

100.74

6.7
4.1
+2.6

112.38
12.28
99.30
1.12
100.42

56

93.50

7.0
3.4
+3.6

92.65

101.61

5.8
3.1
+2.7

112

93.0

7.5
4.4
+3.1

93.20

102.49

4.9
2.3
+2.6

168

92.50

8.0
4.7
+3.3

93.75

103.36

4.1
1.6
+2.5

244

92.0

8.5
5.4
+3.1

94.30

104.24

3.2
0.8
+2.4

280 = Break

91.50

9.0
6.0
+3.0

94.85

105.14

7.1
4.0
+3.1

330

91.34

9.2
6.1
+3.1

95.40 Break

106.0

6.2
3.2
+2.8

380

91.12

9.4
6.1
+3.3

95.84.6

106.25

6.0
3.1
+2.9

430

90.94

9.6
6.3
+3.3

96.29.3 end

105.5

6.7
5.2
+1.5

480

90.75

9.8
7.1
+2.7

530

90.56

9.9
6.9
+3.0

580

90.37

10.4
6.6
+3.8

630

90.18

10.2
6.5
+3.7

680 = Break

90.0

10.4
6.5
+3.9

730

90.0

10.5
6.1
+4.4

780

90.0

10.4
6.4
+4.0

830

90.0

10.4
7.1
+3.3

880

90.0

10.4
6.9
+3.5

930

90.0

10.4
7.1
+3.3

980

90.0

10.4
7.4
+3.0

Levels Backed up

100.42

6.25
94.07
6.45
100.52
2.02
98.50
10.33
108.84
3.24
105.60

105.26

WEST ST WATER MAIN

1030	90.0	10.4 7.6 +2.8 10.4 7.4 +3.0 10.4 8.0 +2.4 10.4 7.9 +2.5 10.4 7.8 +2.6 10.4 5.0 +5.0	100.0
1080			
1130			
1180			
1230			
1290 = 125 of NL Logant	90.0		

Levels Backed up

45th ST WATER MAIN

105th St. to 1st St. = 0400	86.0
50	86.5
100	87.0
150	87.50
200 = BREAK	88.00
260	87.63
320	87.25
380	86.87
440	86.50
500	86.12
560	85.75
620	85.37

45th ST WATER

.48

680 = BREAK	85.0
740	85.25
800	85.50
860	85.75
920 = Break	86.0
980	85.83
1040	85.64
1106	85.48
1168	85.32
1230	85.16
1290 = 125 of NL Logant	85.0

Goldfinch + FT. STOCKTON PAVING

Washington

266.54 266.57

2

268.57
267.90
268.60
267.90

BMSW
268.22
267.80

268.60
268.00

266.54

FAHCON

FORT

265.50

265.70
268.95
268.91
268.20

STOCKTON

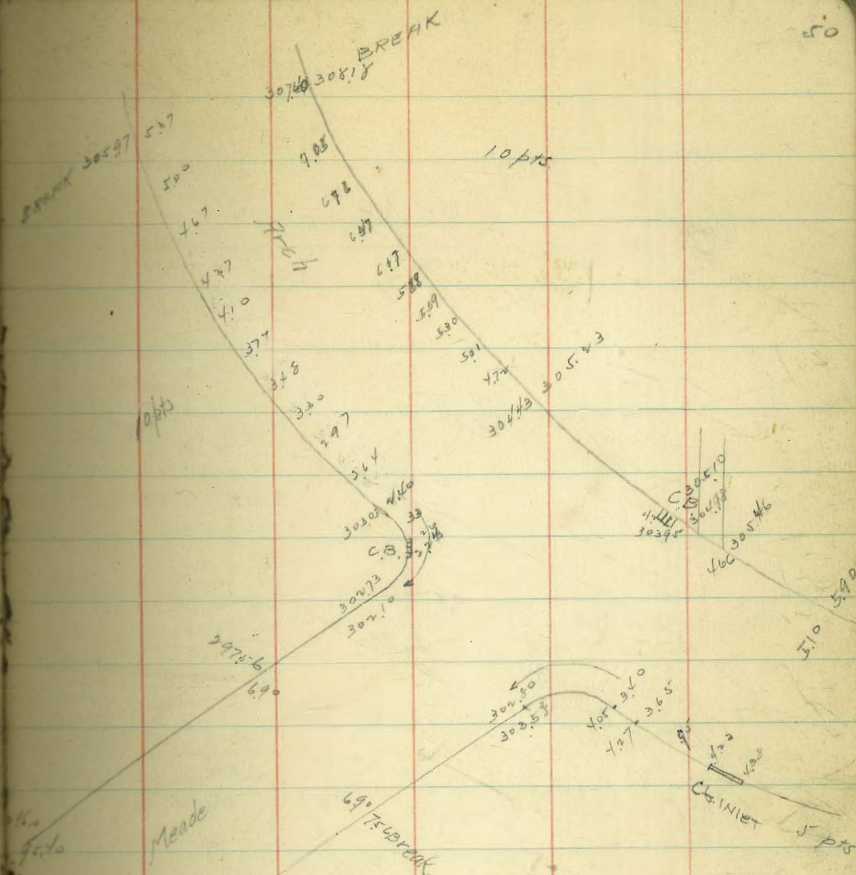
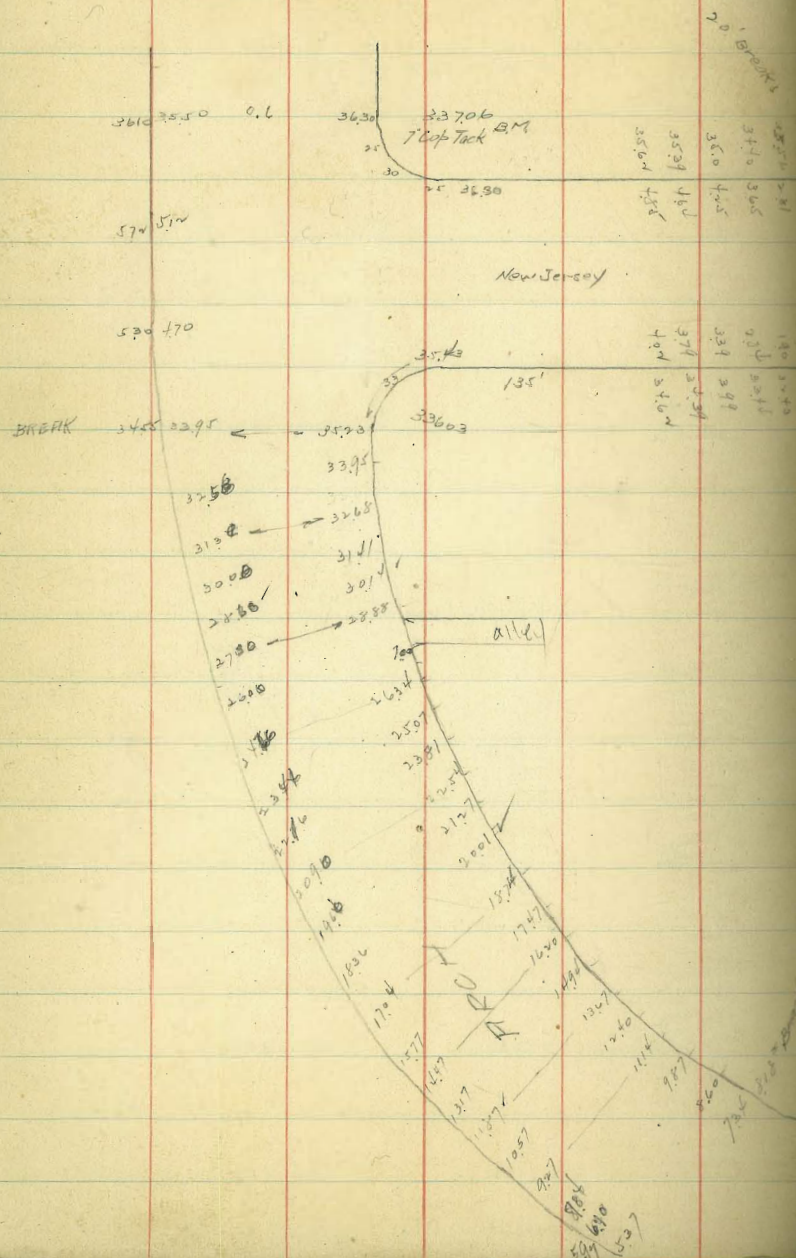
268.35
268.77

268.15

Goldfinch

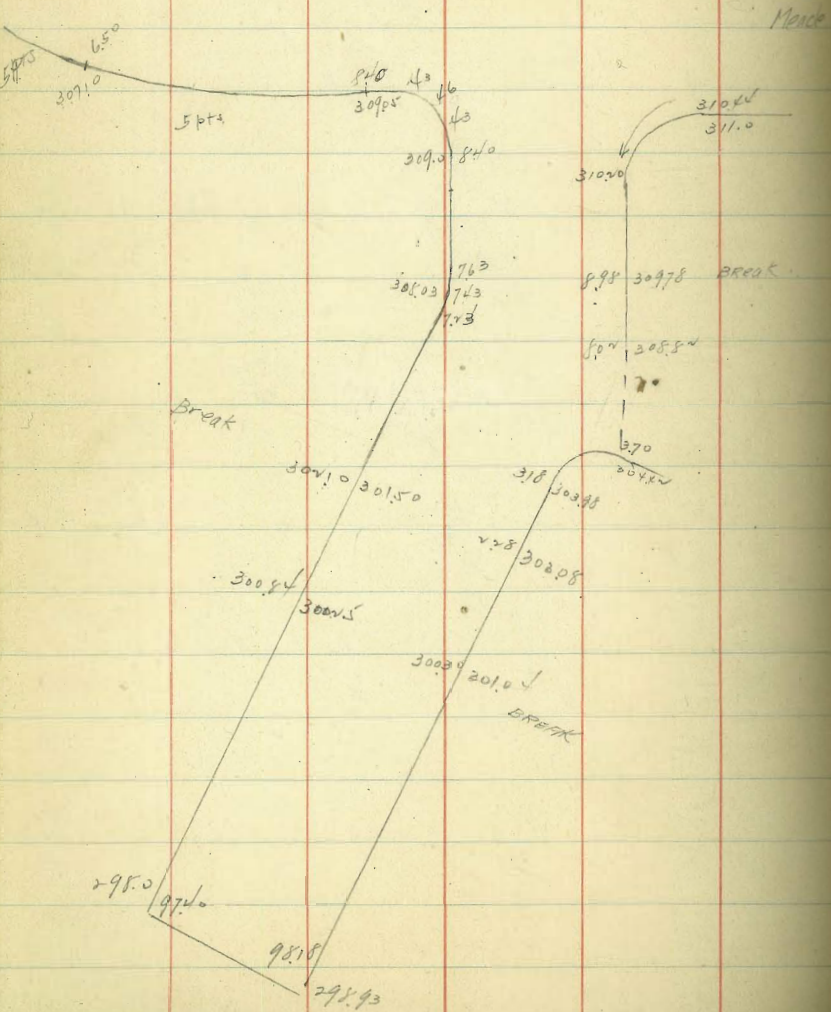
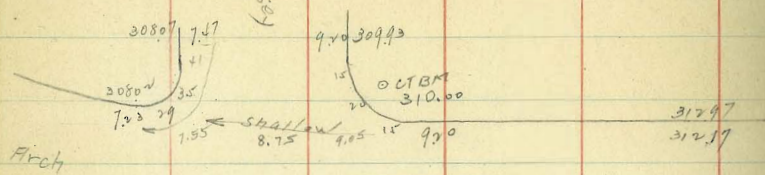
264.05 263.41 265.25 262.00

Lewis



Maude - Monroe - Arch St

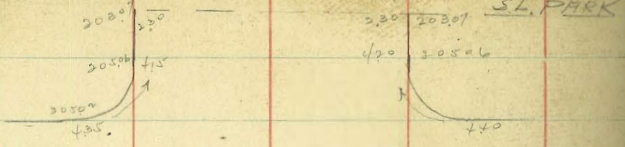
New Jersey



26th ST PAVING

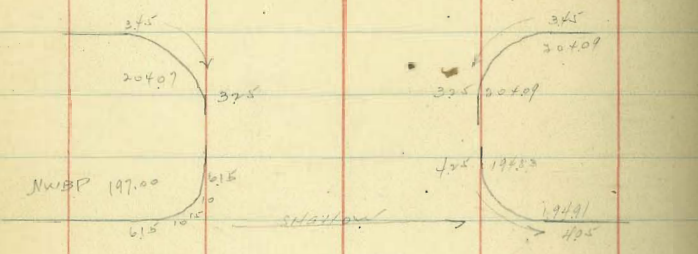
SL. PARK

5W



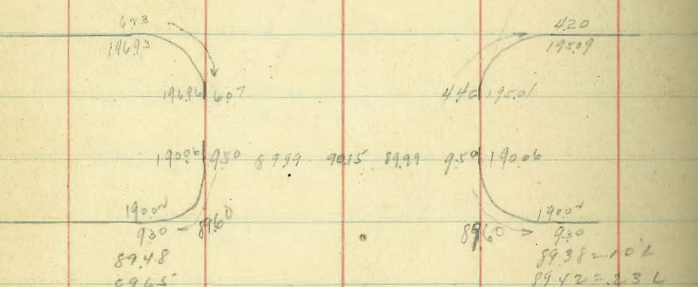
H

ST



C

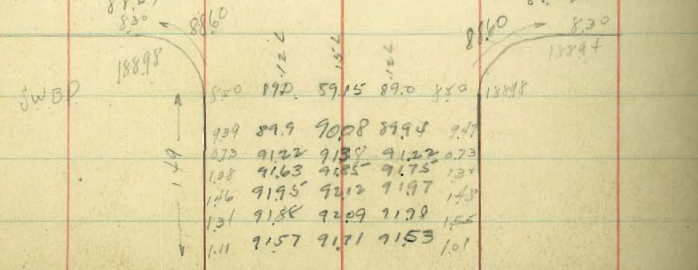
ST



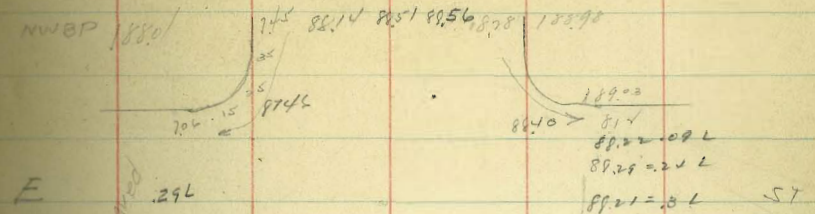
Broadway

89.65

89.38 = 10.2
 89.42 = 2.3 L
 89.50 = 2.5 L
 89.02 = 2.2 L
 89.58 = .05 L

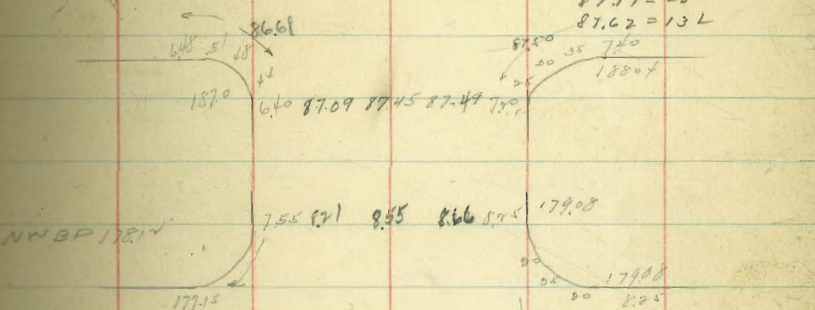


JWB



E

ST



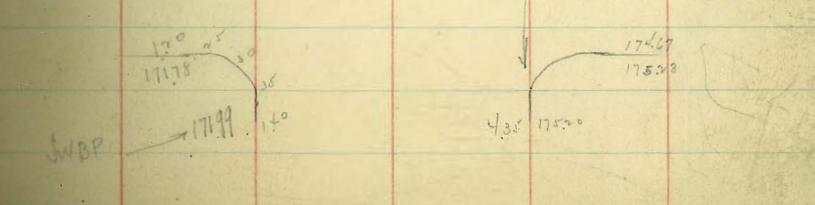
F

ST



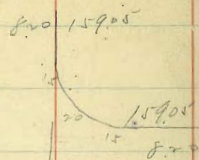
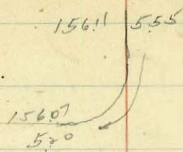
G

ST

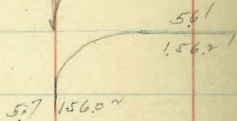
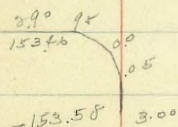


JWB

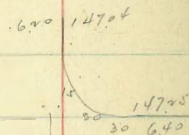
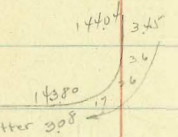
26th ST PAVING



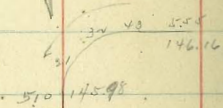
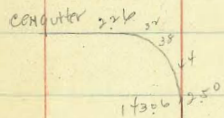
Market



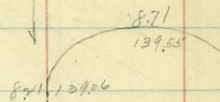
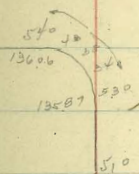
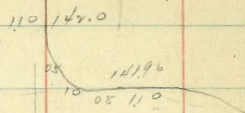
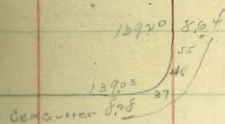
5th St



Island



26th ST



ST.

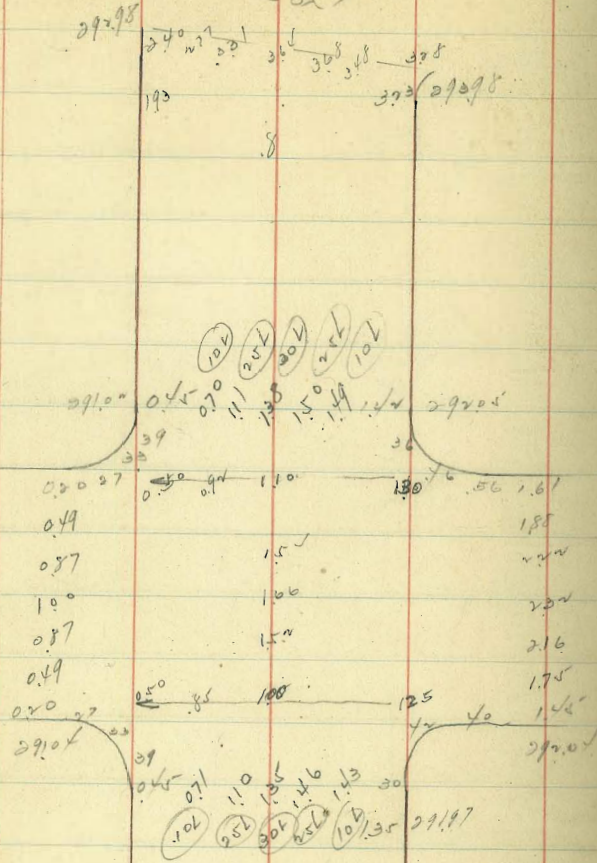
J

57

Verriest St Paving

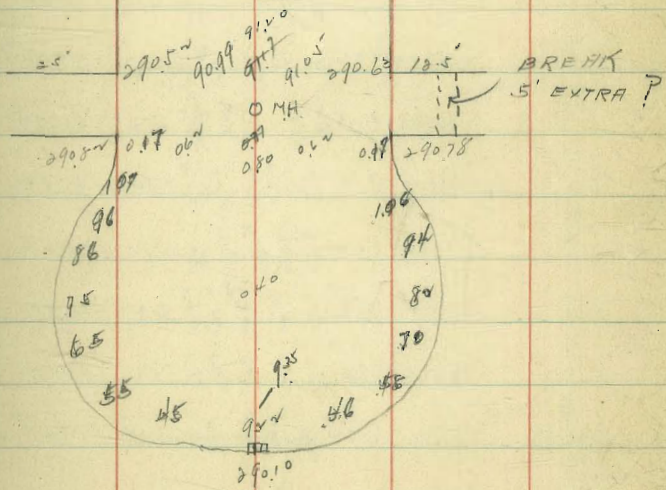
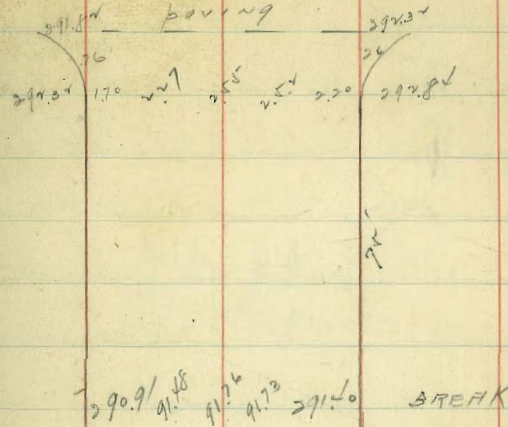
CON'T.

Johnson



Hayes

Lincoln paving

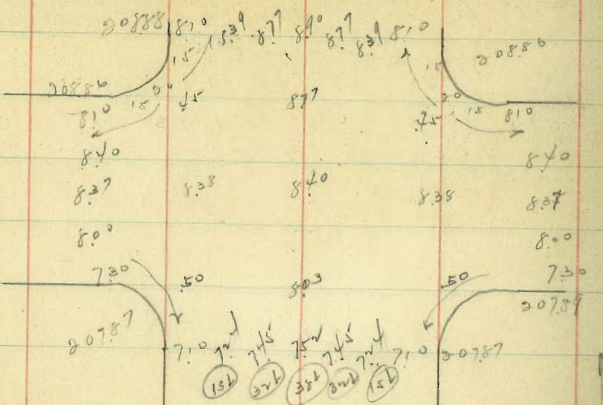


A ST PAIRING

A ST PAIRING

55

2746



275

20' BATHYS

197.03	643	675	720	720	720	720	677	197.57
195.14	454	488	520	520	520	520	511	195.91
193.36	276	311	360	360	360	360	327	194.17
191.68	91.08	114	140	140	140	140	176	192.56
190.18	945	977	1000	1000	1000	1000	190.0	190.50
188.46	8.06	8.20	8.40	8.40	8.40	8.40	8.50	189.60
188.10	7.55	7.90	8.40	8.40	8.40	8.40	8.13	188.93
187.65	6.95	7.20	7.60	7.60	7.60	7.60	7.57	188.00
= C.B.	187.46	6.50	6.76	7.00	7.00	7.00	7.00	188.00 ✓ = C.B.
187.33	6.00	6.06	6.49	6.77	6.77	6.77	7.35	188.06
187.31	6.25	7.11	7.03	7.07	7.07	7.07	7.47	188.00

265

STA. 3400

3420

187.51	6.95	7.20	7.60	7.60	7.60	7.60	7.77	188.51
187.56	7.26	7.26	7.26	7.26	7.26	7.26	7.97	188.77
188.44	7.84	7.84	7.84	7.84	7.84	7.84	8.62	189.42
189.17	8.57	8.57	8.57	8.57	8.57	8.57	9.41	190.21
190.13	9.53	9.53	9.53	9.53	9.53	9.53	10.35	191.15 ✓
191.17	10.52	10.52	10.52	10.52	10.52	10.52	11.45	192.27
192.22	11.62	11.62	11.62	11.62	11.62	11.62	12.72	193.56
192.81	12.89	12.89	12.89	12.89	12.89	12.89	14.25	195.07

2575

57

MYRTLE ST Grading
 ARIZONA to TEXAS

	N 66	28438		506	
		7.79			
		290.17			
W/ Arizona		275.0		274.50	
50' W		279.07	14.10/113	278.57	14.40/113
100'		283.16	7.01/704	282.66	7.51/756
140' = B		286.44	3.75/	285.94	4.45/
160		287.71	1.61/	287.21	4.96/
180		288.22	1.85/	287.82	4.35/
200		288.26	1.91/	287.76	4.41/
220		287.51	4.66/	287.01	3.16/
240		286.07	4.10/	285.57	4.60/
BT TEXAS		283.0	7.17/104	284.50	7.67/104

60 wide
 10 ft in E
 3' gutter

3 E. of Myrtle & Arizona

	N 66	274.50		274.2	283.17	286.7	285.0	285.6
		7.58		3.2	9.5	6.4	4.9	7.3
		.054		4.7	10.8	5.4	4.4	3.6
						4.0	4.5	4.7
	S 66	274.50		275.8	284.9	286.2	287.5	288.1
		5.28		4.1	10.0	6.7	5.4	4.8
		.126		2.4	10.6	7.3	6.6	5.8
				-0.3	-0.6	-0.6	-1.2	-1.0
	N 66	288.5		287.5	286.3	283.0	286.0	286.0
		4.7		5.1	6.6	9.5		
		3.9		4.0	4.8	15.1		
		14.5		4.1	4.8			
	S 66	288.0		287.3	285.8	284.50	286.0	286.0
		4.9		5.6	7.1	10.3		
		5.6		5.1	5.4	15.1		
		-0.7		4.5	4.7			

5/2/06
Moore

ALLEY PAVING
BIK 46 - SHERMAN'S ADD

30' wide

L+51

W+44

514 NWDP Imp. 4' wide

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EL v. m. d.

Top of 65.81' paving
66.32
65.81 paving
65.18
65.00 paving

20' E

65.70 +2.22 64.56 -0.46

40

64.50 +3.46 64.13 -0.71

60 E Break N+S

64.00 +2.0 63.70 -0.77

95

63.75 +2.0 63.47 0.0

130

63.50 +0.22 63.25 0.0

165

63.25 +0.40 63.02 0.0

200 = BREAK

63.00 +1.0 62.80 +1.0

240

62.50 +1.0 62.35 +1.0

280

62.0 +1.0 61.90 +1.0

320

61.50 +1.0 61.45 -1.0

360 = BREAK

61.00 +0.12 61.00

408.1 down by 4th top of 65.81

58.98 58.52

66.22 64.20 64.50 64.00 63.75 63.50 63.25

3.02 7.11 7.84 5.34 5.59 3.97 4.17

1.92 1.38 3.34 3.59 3.20 3.77

5.97 +2.22 +3.46 +2.00 +2.0 +2.22 +0.40

65.00 64.56 64.12 63.70 63.47 63.25 63.02

4.24 4.78 5.41 5.64 5.87 4.17 4.20

5.24 5.94 6.41 6.0 4.17 4.20

-0.46 -0.71 -0.77 0.0 0.0 0.0

63.00 62.50 62.00 61.50 61.0 58.98 - 0.6

4.24 4.94 5.41 4.08 4.58 6.0

3.24 3.94 4.41 3.88 4.46

7.10 7.10 7.10 7.10 +0.12

62.80 62.35 61.90 61.45 61.0 58.52 - 0.6

4.62 5.07 5.54 4.13 4.58 7.06

3.62 4.07 4.54 5.13 3.58

7.10 7.10 7.10 -1.0 7.10

ALLEY PAVING 15' wide
 BIK 66 PARKVILLE E Perishing
 setw 25th St

- 4' edge paving		326.81 = paving	327.06 = paving	
NL UPAS		327.04 = 66 gr. est.	327.29 = est. at grade	
		326.89 = cut at NL UPAS	327.14 = cut at cut	
Ho N	+1.0	327.74	327.97	+1.23
60' N = BREAK	+0.16	328.60	328.80	+2.0
		check Boss' Teddy O.K.		
120	+1.0	328.73	328.93	+1.0
160	+1.0	328.85	329.05	+1.0
200	+1.0	328.98	329.18	+1.0
240	+0.99	329.11	329.31	+1.0
280	+1.0	329.24	329.44	+2.0
320	+2.0	329.37	329.57	
360 = St Myrtle		329.50 = paving grade	329.70 = paving grade	
		329.60 = est. at grade	329.88 = est. at grade	

NE Myrtle 25th St

324.51					
1.87					
326.38					
2.40					
328.78					
0.87					
329.65					
2.56					
332.21					
1.11					
333.32					
3.78					
337.10					
337.79					
W 326.89	327.74	328.60	328.73	328.85	
	5.85	4.99	5.47	5.35	
	4.85	4.83	4.47	4.35	
	+1.0	+0.16	+1.0	+1.0	
E 327.14	327.97	328.50	328.93	329.05	
	5.62	4.79	5.27	5.15	
	3.90	2.29	4.27	4.15	
	+1.72	+2.0	+1.0	+1.0	
W 328.98	329.11	329.24	329.37	329.50	
	5.34	5.09	4.62	4.49	
	4.30	4.00	3.62	3.50	
	+1.0	+0.47	+1.0	+0.17	
E 329.18	329.31	329.44	329.57	329.70	
	5.02	4.77	4.42	4.29	
	4.02	3.89	3.76	3.42	
	+1.0	+1.0	+2.0	+2.0	

BRIGHTON AVE PAVING

Bacon paved

N.W. BP 4.53

3.55

4.15

4.60 4.90

Break 5 side only

Abbott paved

14.96 14.20

15.05
14.20

14.20 14.96

14.96
14.20

Cable

13.70
14.05
13.80 13.20

13.20
13.70
SW BP
14.00

35.56 34.84
35.58
34.84

34.84 35.56
35.56
34.84

Ebers

33.90 34.55
N.W. BP
34.44 34.55 33.80

33.80 34.55
33.90
34.55

38.25 38.25

38.25 39.00 BREAK

104.90 104.90
Corb. in question

Gu. 207

57

59

104.90 104.90 104.90 105.74

82.25 81.70

82.55 82.40 BREAK

78.0 77.2

78.15 78.97 BREAK

74.18 73.50

74.32 75.17 BREAK

70.94 70.29

71.10 71.95 BREAK

68.22 67.57

68.37 69.20 BREAK

60.50 59.85
60.50 60.65

60.65 61.50
60.65 60.65

Froude

59.85 59.85
59.50 59.85

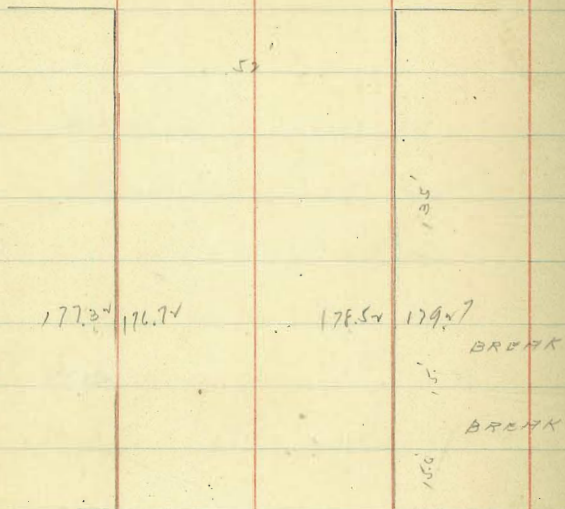
59.85 59.85
59.85 61.67
SW Top wall

Grape ST Paving
5th to 6th

NWBP

178.51
648
187.99

5th ST



6th ST

5/5/06

60

5th

6th

135' E of EL 5th

177.20

1114

179.20

150' W of EL 5th

178.0

693 set

150.0

111

165.5 W of 6th ST

179.0

151.92

115' W of 6th ST

178.51
59
184.75

713

518
179.77
75
5.93

173.7

Meado Ave Grading

	526	526
El Georgia	343.60	344.60
to E	341.56	342.56
60	340.40	341.40
80	338.96	339.96
100	337.23	338.23
120	335.23	336.23
140	332.94	333.94
160	330.36	331.36
210	323.57	324.57
260	316.78	317.78
310: w/ Florida	310.0	311.0
El Florida	309.0	310.0
30 E	308.50	309.50
50	308.27	309.27
70	308.26	309.26
90	308.43	309.43
110	308.58	309.58
130	309.52	310.52
150 E	310.37	311.37

Meado & Georgia S.F.B.P

343.60 1.10 344.70 19.45 325.25 25.00 300.25 25.00 319.16 1.10 320.26	N	343.60	4.50 1.9 3.1 1.7 10.7	416.0 3.1 4.5 3.5 -1.7	40.20 4.5 5.5 12.0	38.50 6.2 3.5 12.7	36.50 8.2 4.8 13.7	34.20 10.5 7.2 23.3
319.16 1.10 320.26 1.10 321.36 1.10 322.46 1.10 323.56 1.10 324.66 1.10 325.76 1.10 326.86 1.10 327.96 1.10 329.06 1.10 330.16 1.10 331.26 1.10 332.36 1.10 333.46 1.10 334.56 1.10 335.66 1.10 336.76 1.10 337.86 1.10 338.96 1.10 340.06 1.10 341.16 1.10 342.26 1.10 343.36 1.10 344.46 1.10 345.56 1.10 346.66 1.10 347.76 1.10 348.86 1.10 349.96 1.10 351.06 1.10 352.16 1.10 353.26 1.10 354.36 1.10 355.46 1.10 356.56 1.10 357.66 1.10 358.76 1.10 359.86 1.10 360.96 1.10 362.06 1.10 363.16 1.10 364.26 1.10 365.36 1.10 366.46 1.10 367.56 1.10 368.66 1.10 369.76 1.10 370.86 1.10 371.96 1.10 373.06 1.10 374.16 1.10 375.26 1.10 376.36 1.10 377.46 1.10 378.56 1.10 379.66 1.10 380.76 1.10 381.86 1.10 382.96 1.10 384.06 1.10 385.16 1.10 386.26 1.10 387.36 1.10 388.46 1.10 389.56 1.10 390.66 1.10 391.76 1.10 392.86 1.10 393.96 1.10 395.06 1.10 396.16 1.10 397.26 1.10 398.36 1.10 399.46 1.10 400.56 1.10 401.66 1.10 402.76 1.10 403.86 1.10 404.96 1.10 406.06 1.10 407.16 1.10 408.26 1.10 409.36 1.10 410.46 1.10 411.56 1.10 412.66 1.10 413.76 1.10 414.86 1.10 415.96 1.10 417.06 1.10 418.16 1.10 419.26 1.10 420.36 1.10 421.46 1.10 422.56 1.10 423.66 1.10 424.76 1.10 425.86 1.10 426.96 1.10 428.06 1.10 429.16 1.10 430.26 1.10 431.36 1.10 432.46 1.10 433.56 1.10 434.66 1.10 435.76 1.10 436.86 1.10 437.96 1.10 439.06 1.10 440.16 1.10 441.26 1.10 442.36 1.10 443.46 1.10 444.56 1.10 445.66 1.10 446.76 1.10 447.86 1.10 448.96 1.10 450.06 1.10 451.16 1.10 452.26 1.10 453.36 1.10 454.46 1.10 455.56 1.10 456.66 1.10 457.76 1.10 458.86 1.10 459.96 1.10 461.06 1.10 462.16 1.10 463.26 1.10 464.36 1.10 465.46 1.10 466.56 1.10 467.66 1.10 468.76 1.10 469.86 1.10 470.96 1.10 472.06 1.10 473.16 1.10 474.26 1.10 475.36 1.10 476.46 1.10 477.56 1.10 478.66 1.10 479.76 1.10 480.86 1.10 481.96 1.10 483.06 1.10 484.16 1.10 485.26 1.10 486.36 1.10 487.46 1.10 488.56 1.10 489.66 1.10 490.76 1.10 491.86 1.10 492.96 1.10 494.06 1.10 495.16 1.10 496.26 1.10 497.36 1.10 498.46 1.10 499.56 1.10 500.66 1.10 501.76 1.10 502.86 1.10 503.96 1.10 505.06 1.10 506.16 1.10 507.26 1.10 508.36 1.10 509.46 1.10 510.56 1.10 511.66 1.10 512.76 1.10 513.86 1.10 514.96 1.10 516.06 1.10 517.16 1.10 518.26 1.10 519.36 1.10 520.46 1.10 521.56 1.10 522.66 1.10 523.76 1.10 524.86 1.10 525.96 1.10 527.06 1.10 528.16 1.10 529.26 1.10 530.36 1.10 531.46 1.10 532.56 1.10 533.66 1.10 534.76 1.10 535.86 1.10 536.96 1.10 538.06 1.10 539.16 1.10 540.26 1.10 541.36 1.10 542.46 1.10 543.56 1.10 544.66 1.10 545.76 1.10 546.86 1.10 547.96 1.10 549.06 1.10 550.16 1.10 551.26 1.10 552.36 1.10 553.46 1.10 554.56 1.10 555.66 1.10 556.76 1.10 557.86 1.10 558.96 1.10 560.06 1.10 561.16 1.10 562.26 1.10 563.36 1.10 564.46 1.10 565.56 1.10 566.66 1.10 567.76 1.10 568.86 1.10 569.96 1.10 571.06 1.10 572.16 1.10 573.26 1.10 574.36 1.10 575.46 1.10 576.56 1.10 577.66 1.10 578.76 1.10 579.86 1.10 580.96 1.10 582.06 1.10 583.16 1.10 584.26 1.10 585.36 1.10 586.46 1.10 587.56 1.10 588.66 1.10 589.76 1.10 590.86 1.10 591.96 1.10 593.06 1.10 594.16 1.10 595.26 1.10 596.36 1.10 597.46 1.10 598.56 1.10 599.66 1.10 600.76 1.10 601.86 1.10 602.96 1.10 604.06 1.10 605.16 1.10 606.26 1.10 607.36 1.10 608.46 1.10 609.56 1.10 610.66 1.10 611.76 1.10 612.86 1.10 613.96 1.10 615.06 1.10 616.16 1.10 617.26 1.10 618.36 1.10 619.46 1.10 620.56 1.10 621.66 1.10 622.76 1.10 623.86 1.10 624.96 1.10 626.06 1.10 627.16 1.10 628.26 1.10 629.36 1.10 630.46 1.10 631.56 1.10 632.66 1.10 633.76 1.10 634.86 1.10 635.96 1.10 637.06 1.10 638.16 1.10 639.26 1.10 640.36 1.10 641.46 1.10 642.56 1.10 643.66 1.10 644.76 1.10 645.86 1.10 646.96 1.10 648.06 1.10 649.16 1.10 650.26 1.10 651.36 1.10 652.46 1.10 653.56 1.10 654.66 1.10 655.76 1.10 656.86 1.10 657.96 1.10 659.06 1.10 660.16 1.10 661.26 1.10 662.36 1.10 663.46 1.10 664.56 1.10 665.66 1.10 666.76 1.10 667.86 1.10 668.96 1.10 670.06 1.10 671.16 1.10 672.26 1.10 673.36 1.10 674.46 1.10 675.56 1.10 676.66 1.10 677.76 1.10 678.86 1.10 679.96 1.10 681.06 1.10 682.16 1.10 683.26 1.10 684.36 1.10 685.46 1.10 686.56 1.10 687.66 1.10 688.76 1.10 689.86 1.10 690.96 1.10 692.06 1.10 693.16 1.10 694.26 1.10 695.36 1.10 696.46 1.10 697.56 1.10 698.66 1.10 699.76 1.10 700.86 1.10 701.96 1.10 703.06 1.10 704.16 1.10 705.26 1.10 706.36 1.10 707.46 1.10 708.56 1.10 709.66 1.10 710.76 1.10 711.86 1.10 712.96 1.10 714.06 1.10 715.16 1.10 716.26 1.10 717.36 1.10 718.46 1.10 719.56 1.10 720.66 1.10 721.76 1.10 722.86 1.10 723.96 1.10 725.06 1.10 726.16 1.10 727.26 1.10 728.36 1.10 729.46 1.10 730.56 1.10 731.66 1.10 732.76 1.10 733.86 1.10 734.96 1.10 736.06 1.10 737.16 1.10 738.26 1.10 739.36 1.10 740.46 1.10 741.56 1.10 742.66 1.10 743.76 1.10 744.86 1.10 745.96 1.10 747.06 1.10 748.16 1.10 749.26 1.10 750.36 1.10 751.46 1.10 752.56 1.10 753.66 1.10 754.76 1.10 755.86 1.10 756.96 1.10 758.06 1.10 759.16 1.10 760.26 1.10 761.36 1.10 762.46 1.10 763.56 1.10 764.66 1.10 765.76 1.10 766.86 1.10 767.96 1.10 769.06 1.10 770.16 1.10 771.26 1.10 772.36 1.10 773.46 1.10 774.56 1.10 775.66 1.10 776.76 1.10 777.86 1.10 778.96 1.10 780.06 1.10 781.16 1.10 782.26 1.10 783.36 1.10 784.46 1.10 785.56 1.10 786.66 1.10 787.76 1.10 788.86 1.10 789.96 1.10 791.06 1.10 792.16 1.10 793.26 1.10 794.36 1.10 795.46 1.10 796.56 1.10 797.66 1.10 798.76 1.10 799.86 1.10 800.96 1.10 802.06 1.10 803.16 1.10 804.26 1.10 805.36 1.10 806.46 1.10 807.56 1.10 808.66 1.10 809.76 1.10 810.86 1.10 811.96 1.10 813.06 1.10 814.16 1.10 815.26 1.10 816.36 1.10 817.46 1.10 818.56 1.10 819.66 1.10 820.76 1.10 821.86 1.10 822.96 1.10 824.06 1.10 825.16 1.10 826.26 1.10 827.36 1.10 828.46 1.10 829.56 1.10 830.66 1.10 831.76 1.10 832.86 1.10 833.96 1.10 835.06 1.10 836.16 1.10 837.26 1.10 838.36 1.10 839.46 1.10 840.56 1.10 841.66 1.10 842.76 1.10 843.86 1.10 844.96 1.10 846.06 1.10 847.16 1.10 848.26 1.10 849.36 1.10 850.46 1.10 851.56 1.10 852.66 1.10 853.76 1.10 854.86 1.10 855.96 1.10 857.06 1.10 858.16 1.10 859.26 1.10 860.36 1.10 861.46 1.10 862.56 1.10 863.66 1.10 864.76 1.10 865.86 1.10 866.96 1.10 868.06 1.10 869.16 1.10 870.26 1.10 871.36 1.10 872.46 1.10 873.56 1.10 874.66 1.10 875.76 1.10 876.86 1.10 877.96 1.10 879.06 1.10 880.16 1.10 881.26 1.10 882.36 1.10 883.46 1.10 884.56 1.10 885.66 1.10 886.76 1.10 887.86 1.10 888.96 1.10 890.06 1.10 891.16 1.10 892.26 1.10 893.36 1.10 894.46 1.10 895.56 1.10 896.66 1.10 897.76 1.10 898.86 1.10 899.96 1.10 901.06 1.10 902.16 1.10 903.26 1.10 904.36 1.10 905.46 1.10 906.56 1.10 907.66 1.10 908.76 1.10 909.86 1.10 910.96 1.10 912.06 1.10 913.16 1.10 914.26 1.10 915.36 1.10 916.46 1.10 917.56 1.10 918.66 1.10 919.76 1.10 920.86 1.10 921.96 1.10 923.06 1.10 924.16 1.10 925.26 1.10 926.36 1.10 927.46 1.10 928.56 1.10 929.66 1.10 930.76 1.10 931.86 1.10 932.96 1.10 934.06 1.10 935.16 1.10 936.26 1.10 937.36 1.10 938.46 1.10 939.56 1.10 940.66 1.10 941.76 1.10 942.86 1.10 943.96 1.10 945.06 1.10 946.16 1.10 947.26 1.10 948.36 1.10 949.46 1.10 950.56 1.10 951.66 1.10 952.76 1.10 953.86 1.10 954.96 1.10 956.06 1.10 957.16 1.10 958.26 1.10 959.36 1.10 960.46 1.10 961.56 1.10 962.66 1.10 963.76 1.10 964.86 1.10 965.96 1.10 967.06 1.10 968.16 1.10 969.26 1.10 970.36 1.10 971.46 1.10 972.56 1.10 973.66 1.10 974.76 1.10 975.86 1.10 976.96 1.10 978.06 1.10 979.16 1.10 980.26 1.10 981.36 1.10 982.46 1.10 983.56 1.10 984.66 1.10 985.76 1.10 986.86 1.10 987.96 1.10 989.06 1.10 990.16 1.10 991.26 1.10 992.36 1.10 993.46 1.10 994.56 1.10 995.66 1.10 996.76 1.10 997.86 1.10 998.96 1.10 1000.06 1.10	343.60 344.60 342.56 341.40 339.96 338.23 336.23 333.94 331.36 324.57 317.78 311.0 310.0 309.50 309.50 309.27 309.26 309.43 309.58 310.52 311.37							

So. End Culvert #1 2-24-23
 B.M. 318.87 S.F.B.P
 12.21 Meado & Florida

So. End 308.50
 16.58
 10.37
 +6.31
 325.26

No. End 304.50
 15.52
 4.33
 +6.25
 326.55

310.0
 2.14
 312.14

Culvert #1 inlet = 302.50
 302.50 304.0 303.50
 8.44 8.94 4.44
 4.00 3.90 5.50
 +4.00 +5.05 +3.90
 outlet = 303.50
 8.94
 2.14
 +7.00

8.94
 2.14
 +7.00
 8.94
 2.14
 +7.00
 8.94
 2.14
 +7.00

Meade Ave grading

	5 c6	312.6	
203.33 E Florida	312.91	313.91	
256.67	315.45	316.45	
310 = WL Alabama	318.0	319.0	
EV Alabama	319.0	320.0	
50 E	322.0	323.0	
100 E = Brook	325.0	326.0	
125	326.40	327.38	
150	327.58	328.54	
175	328.56	329.46	
200	329.34	330.17	
250	330.67	331.33	
300 = WL Miss	332.0	332.50	
EV Miss	332.50	333.0	
50 E	332.65	333.12 ✓	
100	332.80	333.25	
150	332.95	333.37	
200	333.10	333.50	
250	333.25	333.6 ✓	
300 = WL Louisiana	333.40	333.75 curb 334.0 Est grade	

next page

32007 A. Meade + Sta. 63

312.91	314.16	316.70	319.06	320.00	322.5	325.0
1.25	6.0	3.4	.12	10.3	7.1	4.1
314.16	317.7	318.1	319.06	320.00	321.5	323.0
3.6	3.7	5.8		10.3	6.3	2.8
317.70	318.1	318.6	319.06	320.00	321.5	323.0
318.1	318.6	319.06	320.00	321.5	323.0	324.0
319.06	320.00	321.5	323.0	324.0	325.0	326.0
320.00	321.5	323.0	324.0	325.0	326.0	327.0
321.5	323.0	324.0	325.0	326.0	327.0	328.0
323.0	324.0	325.0	326.0	327.0	328.0	329.0
324.0	325.0	326.0	327.0	328.0	329.0	330.0
325.0	326.0	327.0	328.0	329.0	330.0	331.0
326.0	327.0	328.0	329.0	330.0	331.0	332.0
327.0	328.0	329.0	330.0	331.0	332.0	333.0
328.0	329.0	330.0	331.0	332.0	333.0	334.0
329.0	330.0	331.0	332.0	333.0	334.0	335.0
330.0	331.0	332.0	333.0	334.0	335.0	336.0
331.0	332.0	333.0	334.0	335.0	336.0	337.0
332.0	333.0	334.0	335.0	336.0	337.0	338.0
333.0	334.0	335.0	336.0	337.0	338.0	339.0
334.0	335.0	336.0	337.0	338.0	339.0	340.0
335.0	336.0	337.0	338.0	339.0	340.0	341.0
336.0	337.0	338.0	339.0	340.0	341.0	342.0
337.0	338.0	339.0	340.0	341.0	342.0	343.0
338.0	339.0	340.0	341.0	342.0	343.0	344.0
339.0	340.0	341.0	342.0	343.0	344.0	345.0
340.0	341.0	342.0	343.0	344.0	345.0	346.0
341.0	342.0	343.0	344.0	345.0	346.0	347.0
342.0	343.0	344.0	345.0	346.0	347.0	348.0
343.0	344.0	345.0	346.0	347.0	348.0	349.0
344.0	345.0	346.0	347.0	348.0	349.0	350.0
345.0	346.0	347.0	348.0	349.0	350.0	351.0
346.0	347.0	348.0	349.0	350.0	351.0	352.0
347.0	348.0	349.0	350.0	351.0	352.0	353.0
348.0	349.0	350.0	351.0	352.0	353.0	354.0
349.0	350.0	351.0	352.0	353.0	354.0	355.0
350.0	351.0	352.0	353.0	354.0	355.0	356.0
351.0	352.0	353.0	354.0	355.0	356.0	357.0
352.0	353.0	354.0	355.0	356.0	357.0	358.0
353.0	354.0	355.0	356.0	357.0	358.0	359.0
354.0	355.0	356.0	357.0	358.0	359.0	360.0
355.0	356.0	357.0	358.0	359.0	360.0	361.0
356.0	357.0	358.0	359.0	360.0	361.0	362.0
357.0	358.0	359.0	360.0	361.0	362.0	363.0
358.0	359.0	360.0	361.0	362.0	363.0	364.0
359.0	360.0	361.0	362.0	363.0	364.0	365.0
360.0	361.0	362.0	363.0	364.0	365.0	366.0
361.0	362.0	363.0	364.0	365.0	366.0	367.0
362.0	363.0	364.0	365.0	366.0	367.0	368.0
363.0	364.0	365.0	366.0	367.0	368.0	369.0
364.0	365.0	366.0	367.0	368.0	369.0	370.0
365.0	366.0	367.0	368.0	369.0	370.0	371.0
366.0	367.0	368.0	369.0	370.0	371.0	372.0
367.0	368.0	369.0	370.0	371.0	372.0	373.0
368.0	369.0	370.0	371.0	372.0	373.0	374.0
369.0	370.0	371.0	372.0	373.0	374.0	375.0
370.0	371.0	372.0	373.0	374.0	375.0	376.0
371.0	372.0	373.0	374.0	375.0	376.0	377.0
372.0	373.0	374.0	375.0	376.0	377.0	378.0
373.0	374.0	375.0	376.0	377.0	378.0	379.0
374.0	375.0	376.0	377.0	378.0	379.0	380.0
375.0	376.0	377.0	378.0	379.0	380.0	381.0
376.0	377.0	378.0	379.0	380.0	381.0	382.0
377.0	378.0	379.0	380.0	381.0	382.0	383.0
378.0	379.0	380.0	381.0	382.0	383.0	384.0
379.0	380.0	381.0	382.0	383.0	384.0	385.0
380.0	381.0	382.0	383.0	384.0	385.0	386.0
381.0	382.0	383.0	384.0	385.0	386.0	387.0
382.0	383.0	384.0	385.0	386.0	387.0	388.0
383.0	384.0	385.0	386.0	387.0	388.0	389.0
384.0	385.0	386.0	387.0	388.0	389.0	390.0
385.0	386.0	387.0	388.0	389.0	390.0	391.0
386.0	387.0	388.0	389.0	390.0	391.0	392.0
387.0	388.0	389.0	390.0	391.0	392.0	393.0
388.0	389.0	390.0	391.0	392.0	393.0	394.0
389.0	390.0	391.0	392.0	393.0	394.0	395.0
390.0	391.0	392.0	393.0	394.0	395.0	396.0
391.0	392.0	393.0	394.0	395.0	396.0	397.0
392.0	393.0	394.0	395.0	396.0	397.0	398.0
393.0	394.0	395.0	396.0	397.0	398.0	399.0
394.0	395.0	396.0	397.0	398.0	399.0	400.0

Meads Ave grading

	Scb	NCB
E. Louisiana	332.80	333.40 est. grade 333.29 = curb
50' E	332.74	333.00
100	332.04	332.70
150	331.66	332.40
200	331.28	332.10
250	330.90	331.80
300 w/ Texas	330.52 curb 330.40 est.	331.50 cb 331.4 est. grade.

Meads + Louisiana
JFB

	N	332.29	332.25	332.0	327.65	324.25	322.05	321.50
		0.55	0.6	0.8	1.9	1.6	1.8	2.34
		✓	1.5	3.2	4.4	3.0	2.9	
			-0.9	-2.7	-3.2	-2.0	-1.1	
	S	324.80	325.67	322.30	319.0	315.50	314.5	30.52
		1.04	1.2	1.5	1.9	2.3	2.7	3.2
			2.2	2.9	5.1	5.5	3.9	
			-1.0	-1.4	-3.2	-3.2	-1.2	

SB Meads + Texas

Culvert # 2 inlet 328.56

329.00	328.34	327.60	327.00	5.24
8.87	9.49	10.01	6.84	3.97
7.53	7.67	7.89	5.72	+1.37
+1.04	+1.62	+2.14	+1.07	
			Culvert 327.75	6.89
				5.03
				+1.06

Edge of pipe = 24' fillet

ALLEY. PAVING

BIK 57 City Hqts.

20' wide
betw 37th + Cherokee

W

E

SL Univ. = 0+00

354.11 = EST

353.91 = EST

354.44 = PAVING

353.96 = PAVING

50.5 353.48 +0.36 353.87 +1.0

100 352.52 +0.31 352.18 -0.23

150 351.56 +1.0 351.29 +1.0

200 - Break 350.60 +0.57 350.40 -0.17

242.5 350.20 -0.40 350.0 +1.0

285 349.80 -0.17 349.60 0.0

327.5 349.40 -0.50 349.20 -0.29

370 - Break 349.0 +1.0 348.80 -0.24

412.5 348.40 -0.14 348.20 -0.30

455 347.80 +1.0 347.60 +1.0

497.5 347.20 +1.0 347.0 +0.13

540 - Break 346.60 +0.67 346.40 -0.03

570 344.60 +2.29 344.40 +1.96

600 - N.L. Lightman 342.60 +1.39 342.56 +0.68

5/10/56

Y Moore

357.64

0.96

358.60

7.52

351.08

2.92

353.91

5.62

348.29

11.01

338.87

NW 1/4 Cherokee + Univ.

W 53.48 52.52 51.56 50.60 50.20 49.80 49.40 49.0

5.12 6.06 7.04 3.31 3.71 4.11 4.51 4.91

4.76 5.72 6.04 2.74 3.14 3.53 3.91 4.29

+0.36 +0.31 +1.0 40.57 -0.40 -0.17 -0.50 +1.0

E 53.07 52.18 51.29 50.40 50.0 49.60 49.20 48.80

5.53 6.44 7.31 3.51 3.91 4.31 4.71 5.11

4.53 6.05 6.31 3.05 3.45 3.85 4.25 4.65

+1.00 -0.23 +1.0 -0.17 +1.0 0.0 -0.29 -0.24

W 48.40 47.80 47.20 46.60 46.60 46.60 46.60

5.51 6.11 6.68 3.78 5.28 7.28

5.65 5.71 1.63 2.61 2.99 5.39

-0.14 +1.0 +1.0 +0.67 +1.27 +1.37

E 45.20 47.60 47.0 46.40 46.40 46.40

5.71 7.48 2.88 3.48 5.48 7.48

6.01 1.23 3.75 3.51 3.52 6.50

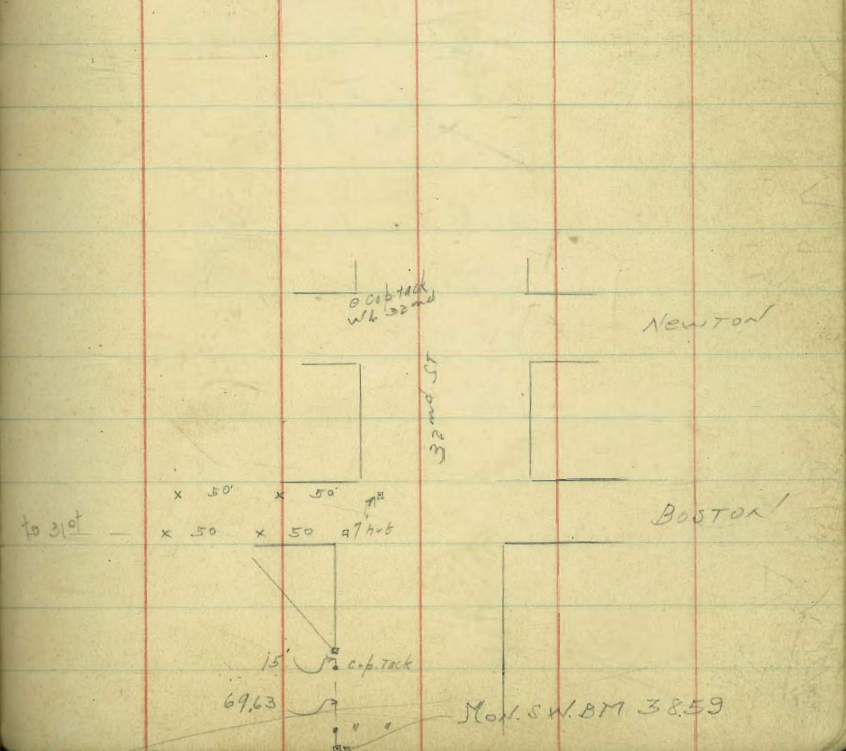
-0.30 +1.0 +0.13 -0.03 +1.76 +0.68

338.5 W NW
37th + W Lightman

32nd ST GRADING

SL Nat - 0100	59.0	60.0
+50	58.25	59.25
1	57.50	58.50
+50	56.75	57.75
2	56.0	57.0
+50	55.25	56.25
3 = NL Newton	54.50	55.50
0100 SL	52.50	53.50
+50	50.59	51.59
1	48.66	49.66
+50	46.75	47.75
1	44.83	45.83
+50	42.91	43.91
3 = NL Boston	41.0	42.0
SL	40.0	41.50
+50	39.84	41.31
1	39.64	40.97
+50	39.47	40.71
2	39.30	40.45
+50	39.11	40.19

11.61	58.0	57.75	57.0	56.25	55.50	54.75	52.75
1.30	5.9	5.55	5.9	5.625	5.50	5.475	5.275
10.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0



32nd ST GRADING

	ECB	WCB
3	38.97	39.93
+50	38.76	39.67
J	38.59	39.41
+21 = NAT MAIN ON WA	38.51	39.30
J +68 = v v EV	38.35	
	37.75 = paving on obline =	38.47

Natl. to Logan

	WCB	ECB
N & Natl.	61.0	60.0
10	61.18	60.18
40	61.22	60.22
60	61.12	60.13
80	60.90	59.90
100	60.53	59.53
120	60.02	59.02
140	59.38	58.38
160	58.59	57.59
180	57.68	56.68
200	56.62	55.62
250	53.81	52.81
300	51.0	50.0

38.59
2.00
41.61 π

E	39.2	39.0	38.74	38.70	38.6
	2.6	2.6	2.9	2.8	3.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0
	1.7	1.7	1.6	1.5	1.0

61.0 Natl. to Logan
5.50
66.50
12.25
54.25
56.17

	WCB	ECB	WCB	ECB	WCB	ECB	WCB	ECB
	61.0	61.47	61.15	60.27	58.0	56.87	54.06	51.25
	5.5	5.5	5.8	6.6	8.1	10.0	12.8	15.0
	2.0	2.0	2.2	2.2	4.0	5.0	5.5	7.5
	+2.5	+2.5	+2.8	+4.3	+4.1	+5.0	+4.3	+4.5
	6.5	6.8	7.6	9.1	11.0	13.8	16.0	18.0
	3.0	4.6	5.3	5.3	6.7	7.7	7.7	7.7
	+7.0	+7.0	+3.3	+3.8	+2.7	+4.7	+4.7	+4.7

51.0 = I.P. on data on Logan 32nd

13.18 +
64.18 = π

	WCB	ECB	WCB	ECB	WCB	ECB	WCB	ECB
N	51.0	53.81	56.62	57.68	58.59	59.38	60.22	60.53
	13.18	10.37	7.56	6.00	5.07	4.80	4.16	3.65
	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71

N	61.22	61.18	61.0
	2.16	3.00	3.18 = 1.14π

	WCB	ECB	WCB	ECB	WCB	ECB	WCB	ECB
E	50.0	52.81	55.62	56.68	57.59	58.38	59.02	59.53
	14.18	11.37	8.56	7.50	6.57	5.80	5.16	4.65
	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71

E	60.13	60.22	60.18	60.0
	2.05	3.96	4.00	4.18
	3.90	3.97	4.10	4.14

E 38.35
5.31
5.71
-0.40

32nd ST Grading

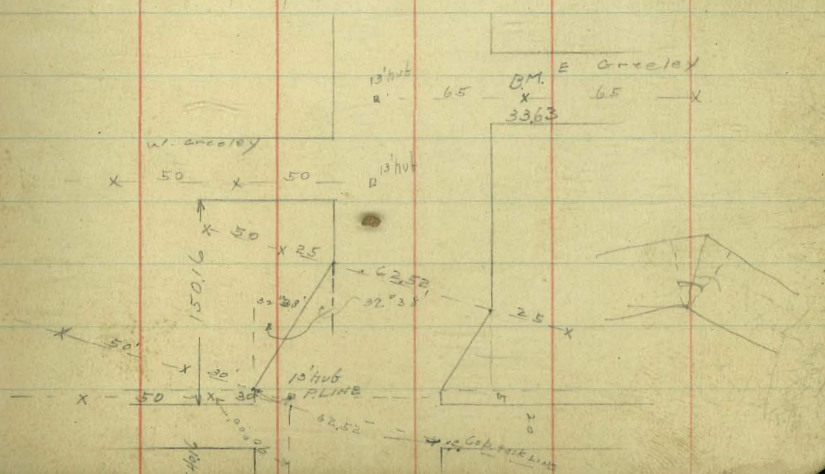
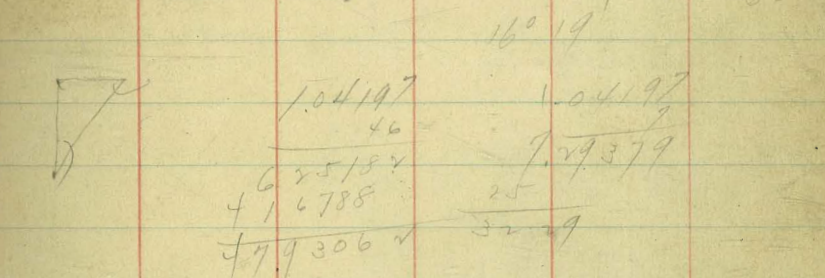
	WCB	ECB
-14.11 ON EAST		66.0
SL Imperial/2000 on west	67.0	66.15
+5.0	67.67	66.81
1	68.33	67.45
+5.0	69.0	68.08
✓	69.67	68.72
+5.0	70.33	69.36
3 = NL NST	71.0	70.0
SL NST	72.0 ✓	71.0
+4.5	76.35	75.65
+85 = BREAK	80.70	80.30
1+05 ✓	84.35	84.0 ✓
1+25 ✓	83.77	83.49 ✓
1+45 ✓	84.96	84.77
1+65 ✓	85.93	85.79
1+85 ✓	86.68	86.58
✓ +05 ✓	87.19	87.13
✓ +25 ✓	87.48	87.45
✓ +45 ✓	87.54	87.51
✓ +65 ✓	87.38	87.38
78' = NL Webster	87.00	87.00

67.03								
75.45								
74.55	W 67.05	67.92	68.58	69.05	69.92	70.58	71.25	
12.60	8.3	7.6	6.7	6.3	5.6	5.0	4.3	
85.05	3.3	1.7	1.2	1.3	1.4	1.5	1.6	
0.07	+2.0	+5.7	+7.2	+5.0	+1.2	+3.5	-0.3	
84.1								
83.45	E 66.24	66.33	67.06	67.70	68.33	68.97	69.6	70.25
85.1	9.0	9.7	8.5	7.8	7.2	6.5	5.9	5.2
V.P.	1.2	1.5	2.2	3.2	4.9	4.3	3.3	6.2
Coatrock	+8.1	+7.7	+6.1	+7.5	+11.3	+7.2	+2.6	-7.0
Tim out								
Sw Webster								
	W 72.25	76.6	80.95	84.0	86.8	87.42	87.8	87.00
	1.49	8.5	12.6	9.5	7.3	6.1	5.7	6.45
	1.1	3.1	8.5	6.5	5.0	4.4	3.5	
	+5.8	+5.4	+4.1	+3.0	+2.3	+1.7	1.2	
	X 71.05	75.9	80.55	82.7	86.0	87.4	87.4	87.0
	13.9	17.6	13.0	9.8	7.5	6.1	5.7	6.2
	3.8	8.4	6.0	4.2	3.2	2.5	3.8	
	+10.0	+9.2	+7.0	+2.6	+4.3	+3.6	+1.9	
	71.86 = HI							
	67.03	W 67.0						
	7.93	4.86						
	71.96 = N							
	E 66.0 = HI	66.18						
	3.68	5.68						
		5.18						
		10.50						
	67.03							
	4.63							
	71.68 = X							
	72.0	ECB NL NST						
	12.15	70.0						
	84.15 = X	4.96						
	2.63							
	83.52							
	7.81							
	71.39	W 76.35	80.70	82.85	83.53	85.11	85.93	86.68
	85.12	7.80	3.45	1.80	0.62	6.22	5.40	4.65
	4.67							4.44
	89.79							
	85.12 = HI							
	5.31	W 87.48	87.54	87.38	87.00	E 83.49	82.01	80.30
	90.43 = X	3.85	3.79	2.95	4.33	13.35	8.41	19.3
	10.13					7.08		5.8
	80.30							
	12.2							
	84.52 = X	E 87.0	87.38	87.51	87.45	87.13	86.58	85.79
		3.43	3.05	2.92	2.78	3.30	3.85	4.24
								5.52
	X 50	X 25	36		75	X 57	lines of NST	
		S.W. 7' hub			S.E. 7' hub			

	web	ECB
✓ +50	62.33	
3 ENT WOODMAN	59.0	59.0
SL ✓	58.0	58.0
+50	57.50	57.0
1	57.01	56.69
+50	56.53	56.05
W	56.05	55.41
+50	55.57	54.77
3110 N Valle Ave.	55.0	54.0
0100-5L ✓ 60' wide 10' cut	53.50	52.50
+60	49.70	48.70
1 +10	46.52	45.52
+60	43.35	42.35
✓ +05 NL Martin on East	40.50	39.50
✓ +55 = SL ✓ ✓ ✓	40.0	39.0
3120 NL Martin on West	39.0	38.39
0100 = SL ✓ ✓ ✓	38.0	37.50
0 +60	36.10	35.75
1 +10	34.50	34.29

Station	W	E	N	S
60.40 = BM	39.5	38.5	37.5	36.3
0.32 =	12.0	12.0	12.0	12.0
60.72 = X	51.5	50.5	49.5	48.3
U150 = BM	35.0	34.0	33.0	31.8
2.15 =	6.9	6.9	6.9	6.9
43.65 = X	41.0	40.0	39.0	37.8

W 400	36.5	35.0	34.0	33.0
E 39.0	4.65	4.15	3.65	3.15



32nd ST. GRADING

(1+73)	w/cb	F CB
1+63.1	NL Greeley (east)	32.80 ✓
2+33	✓ 123.90 ✓	31.06 ✓
1+10	old SL Greeley	30.50 ✓
0+72.05	break	28.72 ✓
0+47.05	✓	27.22 ✓
0+67.05	✓	26.97 ✓
0+87.05	NL Greeley	26.49 ✓
1+07.05	Break	26.22 ✓
1+37.05	✓	26.21 ✓
1+47.05	New SL Greeley (west)	26.32 ✓
1+57.05	old SL Greeley (west)	26.25 ✓
2+11.85	Δ on west	28.65 ✓
2+18.1	✓ ✓	33.71 ✓
2+42.5	NL Alley	36.22 ✓
2+33.5	✓	37.0 ✓
2+73.5	✓	42.27 ✓
2+85.5	✓	46.12 ✓
2+88.5	✓	50.0 ✓

7

4.50
4.00
11.50 TP 101 NP on West Marlow
EAST Greeley

1190.00	33.0	31.3	29.0	28.0	26.7	26.2	26.6
33.62	10.5	12.0	1.7	1.7	1.6	1.4	1.5
94.1	4.8	5.3	0.5	1.0	1.0	1.1	1.0
42.27	4.7	5.2	0.5	1.0	1.0	1.1	1.0
1.0	33.0	32.5	29.5	27.7	27.0	27.1	
30.56	10.2	11.0	1.5	3.0	2.0	2.0	
2.5	2.5	11.0	1.5	10.0	10.0	11.0	
30.72	43.5	-0.5	-1.7	-3.7	-1.7	-10.6	
10.15	37.2	36.9	36.0	36.5	40.2	43.8	47.5
42.06	3.0	3.0	3.0	3.0	3.0	3.0	3.0
12.81	35.0	34.8	34.8	35.6	37.6	42.5	46.1
13.23	13.1	13.1	13.1	13.1	13.1	13.1	13.1
28.00	3.0	3.0	3.0	3.0	3.0	3.0	3.0
37.56	3.0	3.0	3.0	3.0	3.0	3.0	3.0
11.22	3.0	3.0	3.0	3.0	3.0	3.0	3.0
47.86	3.0	3.0	3.0	3.0	3.0	3.0	3.0
47.51	3.0	3.0	3.0	3.0	3.0	3.0	3.0
54.75	3.0	3.0	3.0	3.0	3.0	3.0	3.0
53.43	=MRP 1st NP on east Greeley						
1.80							
55.23	W 32.80	31.06	30.50				
	26.25	4.37	4.73				
33.63	=MRP 1st NP on east Greeley						
140							
3503-T							
0.92	E 31.50	29.95	27.43	27.23	26.86	26.92	27.25
3402=TP	35.53	6.09	6.96	7.60	8.00	8.17	8.09
802+							
42.06-T							
802							
38.04							
662	E 28.57	28.81	29.20	29.58	29.77	30.84	32.32
4266-T	6.46	6.21	5.83	5.45	5.26	4.19	2.71
0.96							
3970=TP							
12.97+							
52.67	W 26.72	27.72	26.87	26.69	26.32	26.45	26.94
	6.31	7.31	8.06	8.34	8.71	9.58	8.09
	W 29.80	31.50	33.00				
	5.15	3.67	1.95				
	50.0						
	2.7						

	3.10	403.10		400.0 El. grad 00
0+00			3.1	400.0
+50			2.9	400.4
1			3.7	399.4
+50 = PI			3.1	399.7.1
2			5.5	397.6V
+25			5.6	397.5
+55			9.1	393.7
3			12.8	390.3
TP	1.06	391.64	12.5V	390.58
4			8.3	383.3
TP	1.75	381.49	11.90	379.74
5			3.9	377.6
6.			7.0	374.5
+50			5.5	376.0
7			13.1	368.3
TP	3.00	371.25	13.2V	368.45
8			5.0	366.2
+50			7.2	367.0
9			10.2	361.0

371.25

72

TP = 9+50 101	359.46	12.00	358.45
10+50		8.0	351.3

Columbia St. Grades (TITUS)

Moore

	wcb	wcbEN	EC6	EC6EN
NL Henry - 0+00	174.50	174.77	176.0	176.70
+40	176.94		178.33	180.35-75 end EC6
+80 BREAK	179.39	179.94	180.67	181.15
1+05 "	180.66	180.64	181.88	182.34
+30 "	181.41	181.12	182.57	182.99
+50 end cb on West		181.24		
+55 "	181.65		182.70	183.15
+80 "	181.37		182.44	182.75
2+05 "	180.57		181.60	181.58
+30 "	179.25		180.27	180.46
+40	178.52			
+50 end cb West				
+55 Break			178.43	178.53
+75 end cb on E			176.55	176.57

AT Clark St

NE Rotary			152.0	
NW "			151.0	
SW "			150.0	
SE "			151.0	

SW Top HVD
Henry & TITUS

	176.0	178.33	180.33	180.66	181.41	181.60
E	176.0 10.14 4.84 2.04	178.33	180.33 5.76 5.25 4.54	180.66	181.41 5.48 5.00 4.24	181.60 4.57 4.20 3.61

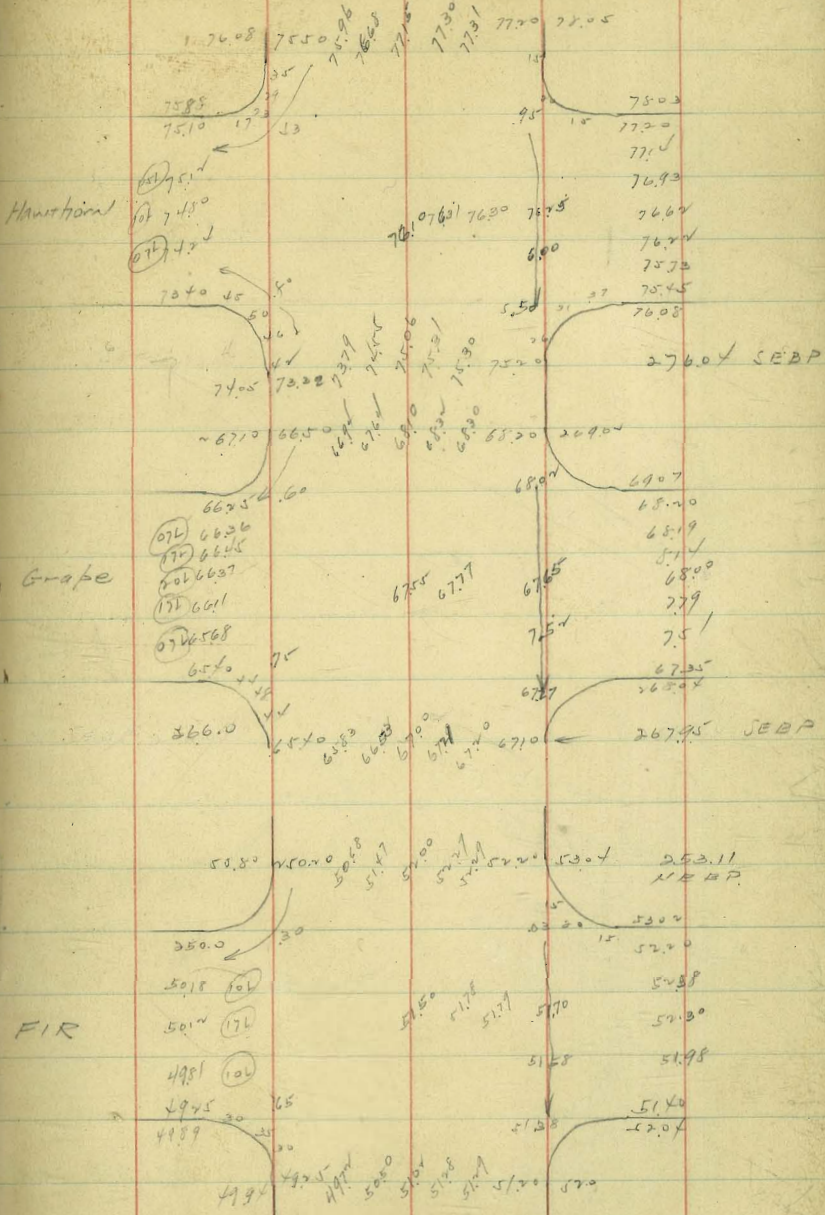
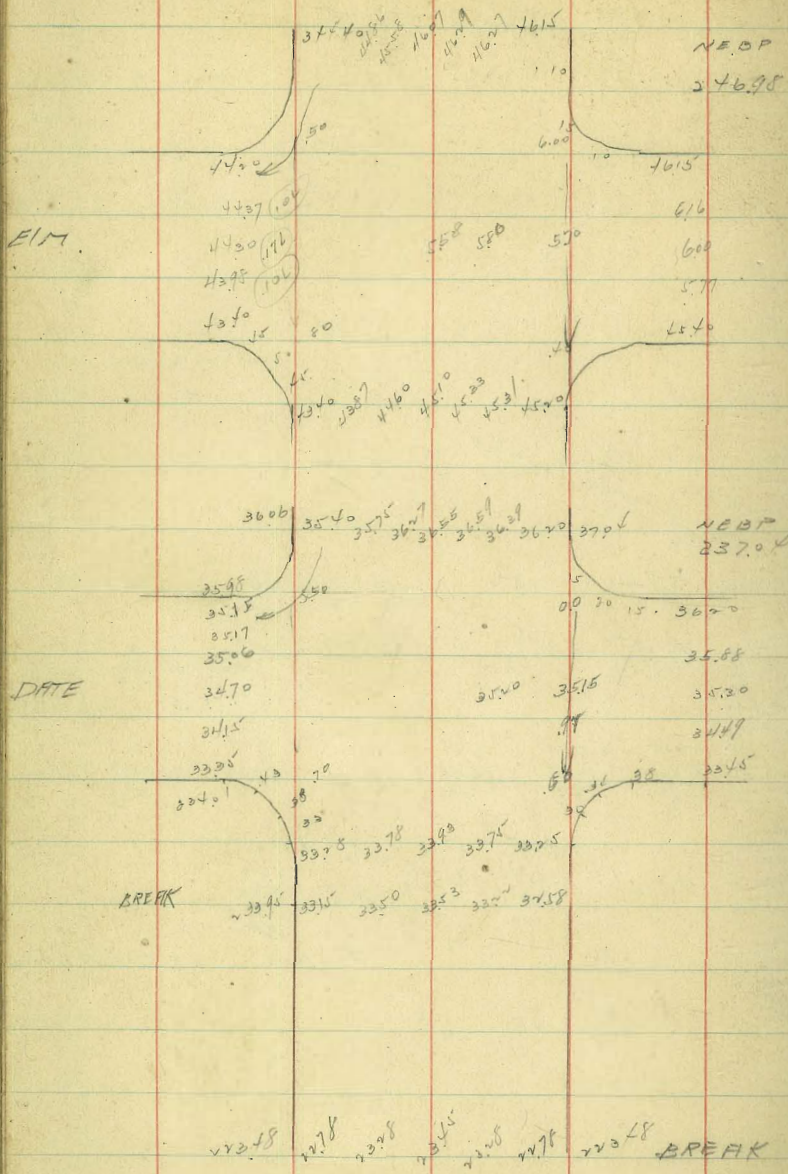
VOID

	177.0	190	210	220	250
wcb	177.0	190	210	220	250
E	181.20 5.49	181.0 5.49	180.55 6.04	179.60 6.89	178.0 8.49

	180.66	181.57	182.43	182.59	182.30	181.67
E	180.66 5.63	181.57 7.07	182.43 7.06	182.59 3.90	182.30 4.19	181.67 4.82
E	180.60 5.89	179.12 7.37	177.20 9.49	176.30 10.19		

F/K/02 10/15 BX-12

DALE ST PAVING



EIM

DATE

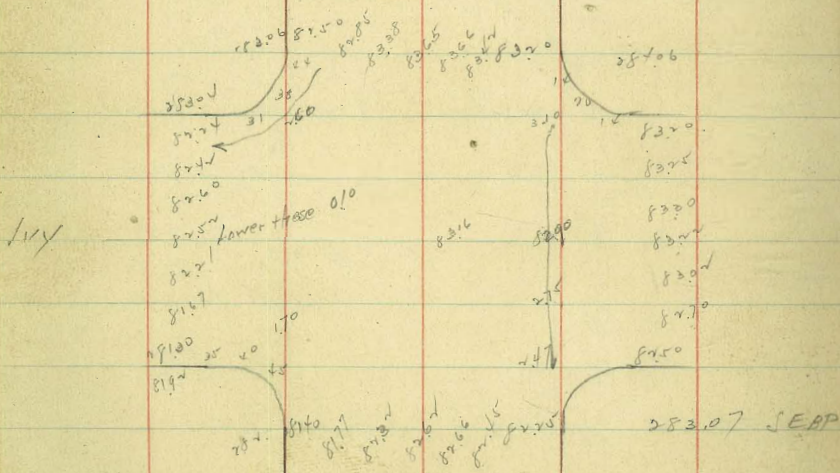
BREAK

BREAK

FIR

Date ST PAVING

Juniper paved

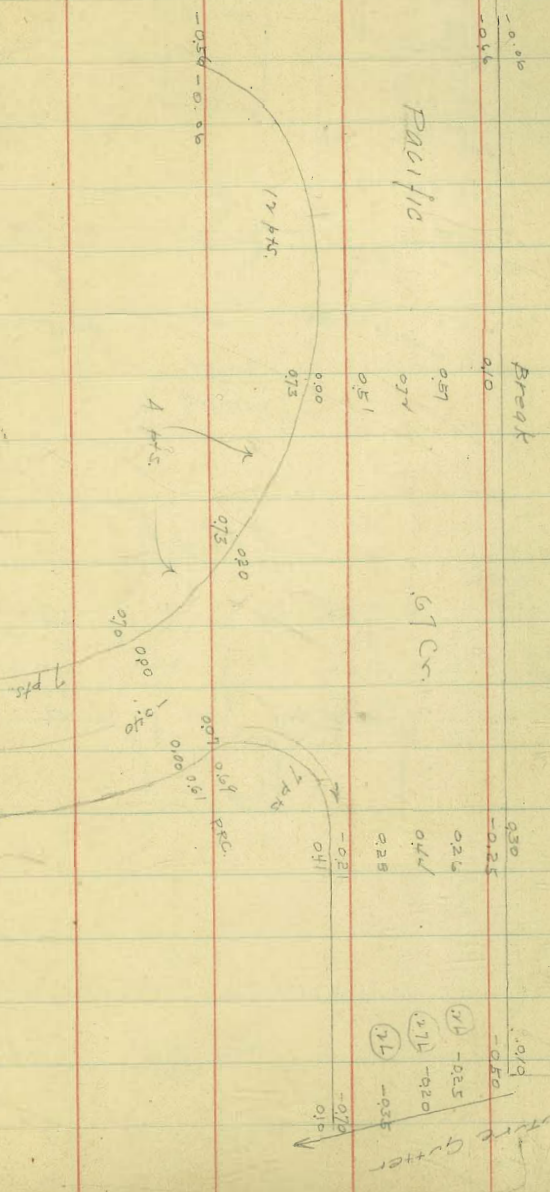


283.07 SEAP

BRAEMAR PAVING

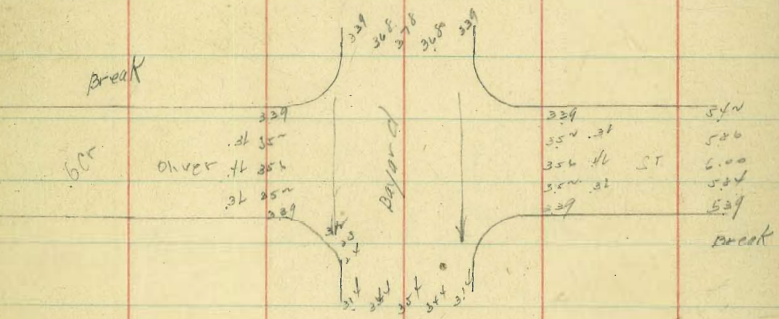
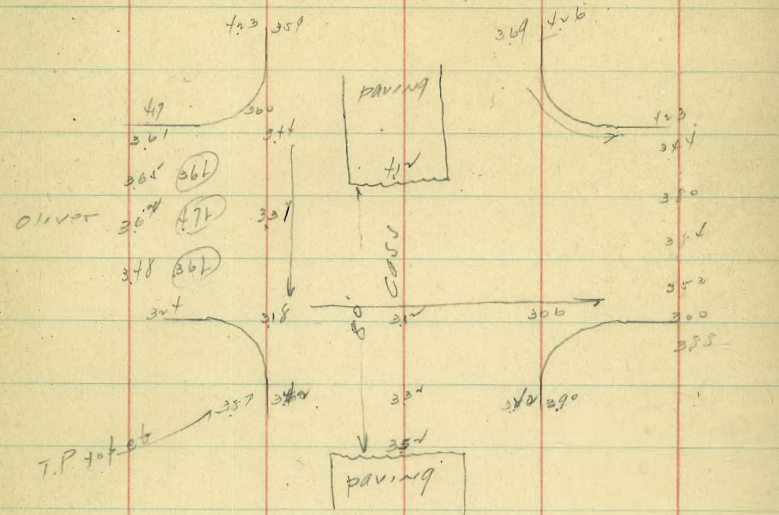
CLASS

MISSION BAY

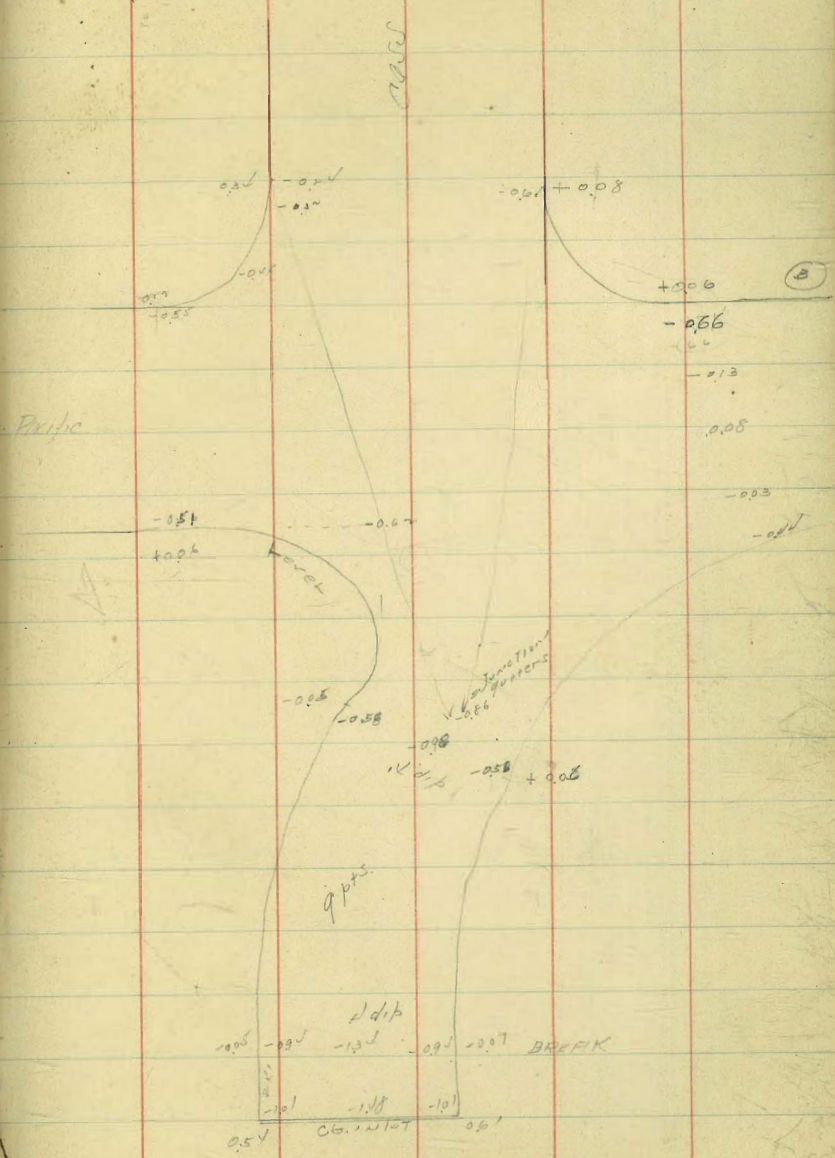


DRIVES
Paved Gutter

46th Hyd
Pro. 4 Bayard, Cass, + Oliver



BRHEMAR PAVING



MISSIONARY BAY

UPAS ST curb ssido
Pershing to 28th

5/20/26
Hoore

Pershing Drive

327.90 ← 40' → 327.90 = cb

← 20' →

189 curb

UPAS
panod

SI

327.36

328.92

328.93 = cb

25 77 SI

SEBP UPAS + 28th

348.80

306

331.86

327.90
- 6.90

321.00

325.93
- 6.18

319.75

326.76
- 5.40

321.36

327.25
- 4.61

322.64

327.86
- 4.0

323.86

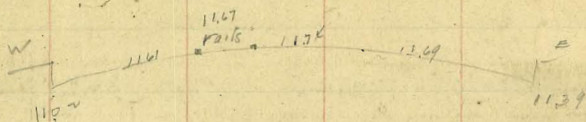
stmp paving

Balboa

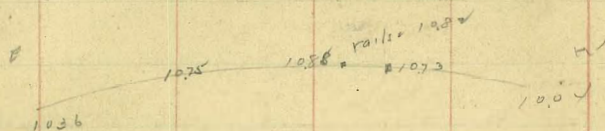
Park

16.19 T

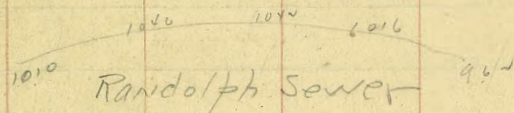
SL Newport at Bacon



NL Newport at Bacon



75' N of NL Newport



SMBP
Honor +
Palmetto

2790'
177
28078
1210
27068
177
27246

50' N of Plumosa = DE = 0+00

25951

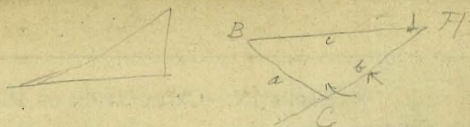
50' N = Hedge paving

25825

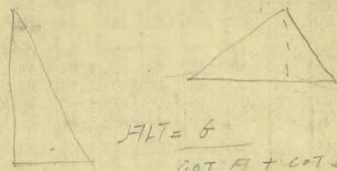
38.7
15.2
4.1

25951
12.95
858
+ 7.31

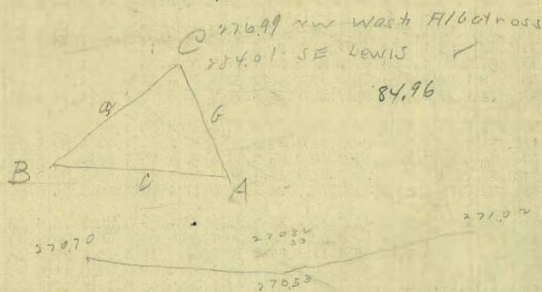
25825
14.01
97
+ 4.30



$$\text{Area} = \frac{g}{(\cot C + \cot A)} v$$



$$\text{ALT} = \frac{g}{\cot A + \cot B}$$



575
350
175

80
55
135
288
153

TABLE IX.—CALCULATION OF EARTHWORK.

HEIGHT

Width	HEIGHT														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.02	.04	.06	.07	.09	.11	.13	.15	.17	.18	.20	.22	.24	.26	.28
2	.04	.07	.11	.15	.18	.22	.26	.30	.33	.37	.41	.44	.48	.52	.56
3	.06	.11	.17	.22	.28	.33	.39	.44	.50	.56	.61	.67	.72	.78	.83
4	.07	.15	.22	.30	.37	.44	.52	.59	.67	.74	.81	.89	.96	1.04	1.11
5	.09	.19	.28	.37	.46	.55	.65	.74	.83	.93	1.02	1.11	1.20	1.30	1.39
6	.11	.22	.33	.44	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	1.67
7	.13	.26	.39	.52	.65	.78	.91	1.04	1.16	1.30	1.42	1.55	1.68	1.81	1.94
8	.15	.30	.44	.59	.74	.89	1.04	1.19	1.33	1.48	1.63	1.78	1.92	2.08	2.22
9	.17	.33	.50	.67	.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50
10	.18	.37	.56	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04	2.22	2.41	2.59	2.78
11	.20	.41	.61	.82	1.02	1.22	1.43	1.63	1.83	2.04	2.24	2.44	2.65	2.85	3.06
12	.22	.44	.67	.89	1.11	1.33	1.56	1.78	2.00	2.22	2.44	2.67	2.89	3.11	3.33
13	.24	.48	.72	.96	1.20	1.44	1.68	1.92	2.16	2.41	2.65	2.89	3.13	3.37	3.61
14	.26	.52	.78	1.04	1.30	1.55	1.81	2.08	2.33	2.59	2.85	3.11	3.37	3.63	3.89
15	.28	.56	.83	1.11	1.39	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89	4.17
16	.30	.59	.89	1.18	1.48	1.78	2.07	2.37	2.67	2.96	3.26	3.56	3.85	4.15	4.44
17	.31	.63	.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15	3.46	3.78	4.09	4.41	4.72
18	.33	.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00
19	.35	.70	1.06	1.41	1.76	2.11	2.46	2.82	3.17	3.52	3.87	4.22	4.57	4.92	5.28
20	.37	.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70	4.07	4.44	4.81	5.18	5.56
21	.39	.78	1.17	1.55	1.94	2.33	2.72	3.11	3.50	3.89	4.28	4.67	5.06	5.44	5.83
22	.41	.81	1.22	1.63	2.04	2.44	2.85	3.26	3.67	4.07	4.48	4.89	5.30	5.70	6.11
23	.43	.85	1.28	1.70	2.13	2.56	2.98	3.41	3.83	4.26	4.68	5.11	5.54	5.96	6.39
24	.44	.89	1.33	1.78	2.22	2.67	3.11	3.56	4.00	4.44	4.89	5.33	5.78	6.22	6.67
25	.46	.92	1.39	1.85	2.31	2.78	3.24	3.70	4.17	4.63	5.09	5.56	6.02	6.48	6.94
26	.48	.96	1.44	1.92	2.41	2.89	3.37	3.85	4.33	4.82	5.30	5.78	6.26	6.74	7.24
27	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
28	.52	1.04	1.55	2.07	2.59	3.11	3.63	4.15	4.67	5.18	5.70	6.22	6.74	7.26	7.78
29	.54	1.07	1.61	2.15	2.68	3.22	3.76	4.30	4.83	5.37	5.91	6.44	6.98	7.52	8.06
30	.56	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.55	6.11	6.67	7.22	7.78	8.33
31	.57	1.15	1.72	2.30	2.87	3.44	4.02	4.59	5.17	5.74	6.32	6.89	7.46	8.04	8.61
32	.59	1.18	1.78	2.37	2.96	3.56	4.15	4.74	5.33	5.92	6.52	7.11	7.70	8.30	8.89
33	.61	1.22	1.83	2.44	3.05	3.67	4.28	4.89	5.50	6.11	6.72	7.33	7.94	8.55	9.17
34	.63	1.26	1.89	2.52	3.15	3.78	4.40	5.04	5.67	6.29	6.93	7.56	8.18	8.81	9.44
35	.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	6.48	7.13	7.78	8.42	9.08	9.72
36	.67	1.33	2.00	2.67	3.33	4.00	4.66	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00
37	.68	1.37	2.06	2.74	3.42	4.11	4.79	5.48	6.17	6.85	7.54	8.22	8.91	9.59	10.28
38	.70	1.41	2.11	2.82	3.52	4.22	4.92	5.63	6.33	7.03	7.74	8.44	9.15	9.85	10.56
39	.72	1.44	2.17	2.89	3.61	4.33	5.05	5.78	6.50	7.22	7.95	8.67	9.39	10.11	10.83
40	.74	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.67	7.41	8.15	8.89	9.63	10.37	11.11

Table gives cu. yds. in 1 ft. of a triangle of given width and height. Corrections for tenths of width are one tenth the values found under each height considering the widths from 1 to 9 as tenths and similarly the corrections for tenths of height are one tenth the figures opposite width considering the heights from 1 to 9 as tenths. Thus if $w = 16.2$ and $h = 5.3$, cu. yds. $= 1.48 \times .023 + .089 = 1.597$ cu. yds. or practically 160 cu. yds. per 100 ft. If w exceeds 40 ft., use one half and multiply result by 2, if both w and h are large use one half of each and multiply result by 4. Any cross-section may be divided into triangles by the following rule. To the triangle of the sum of the outside cuts (or fills) $= h$, and $\frac{1}{2}$ the roadbed $= w$, add the triangles formed by taking the distance out to each break in turn ($= w$'s) by the difference between the cuts (or fills) on each side of it ($= h$'s) always subtracting the outer from the inner.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on $1\frac{1}{2}$.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	II
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be $41.9 + (20 - 16) \times 2$ or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

Made in Germany.