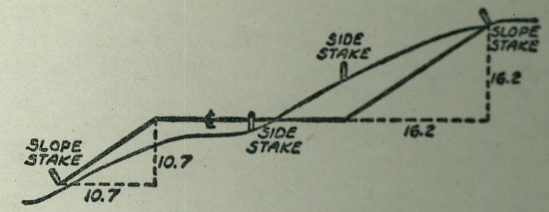
B-33



Distances from Side Stakes for Cross-Sectioning

Slope 1 to 1. Roadway of Any Width

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	03	.06	09	13	16	19	.22	.25	.28	.31	34	38	42	.46
15°	04	10	14	19	24	.29	.34	.39	45	.51	.53	58	.63	.68
20°	06	.13	19	26	.32	.39	.45	.51	.58	.65	.72	79	.84	.90
25°	.08	16	24	.33	40	49	.58	67	.75	.83	90	.99	1.06	1.14
30°	10	19	.29	39	49	.59	.69	79	.89	.99	1.09	1.20	1.29	1.39
35°	11	22	.34	47	.58	.69	.70	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	15	.30	44	60	76	91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	19	.38	.57	76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	23	46	.69	.93	1.16	1 40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	25	.51	76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	30	.61	91	1.22	1.53	1.84	2.15	2.46	2 78	3.10	3.44	3.78	4.12	4.46
85°	33	66	1.00	1.33	1.68	2.02	2.36	2 70	3.05	3.40	3.77	4.14	4.55	4 89
90°	36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	39	79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4 76	5.31	5 86	6.43	7 01	7 60
120°	62	1.25	1 93	2.52	3.16	3.81	4 45	5.11	5.77	6 44	7 12	7.80	8.50	9 22

FOR EXTERNALS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	036	.046	.056	.065	.074	.083	.093	.106	120	127	135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

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Cle. n. Si Commercial - Hensley - Evans	2
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Perry St. Ties + Bench Mark	18

Clark
Shephard
Stuner
O'Neil
4-28-53
W.O. 20007

CB. & WALK - FRONT ST.

N'Line of MAPLE ST. to 140 N'ly, ON E'ly FRONT.

DATA: PROFILE # 352

STA.			
			F. Edge WALK
1+70	meet EXIST. C.B.	chk 207.62 tp CB = 207.60	
1+25	207.02 FLOWLINE		207.02 Rod 207.86 Elev F. WALK FO.84
1+00	207.24 GUTT		207.24 208.08 El. F. WALK FO.84
0+75	207.47 GUTT		207.47 208.31 El. F. WALK FO.84
0+50	207.70 GUTT		207.70 208.54 Elev. F. WALK FO.84
0+25 (not set)			
0+20	END C.B.		208.07 208.72 FO.65 tp. CB
(0+00 = N'ly Line Maple)			208.40 209.00 TP. C.B. P.L. FO.60
B.C 0-04			208.21 Rod 209.00 El TP. CB. FO.79 TP. CB.
mid. PT.			208.25 209.05 FO.80 TP. CB
E.C. (N'ly CB Line MAPLE)			208.36 209.10 FO.74 TP. CB

(All drive from here on)

B.M: Dir. Elev. Rod:

(OUT)

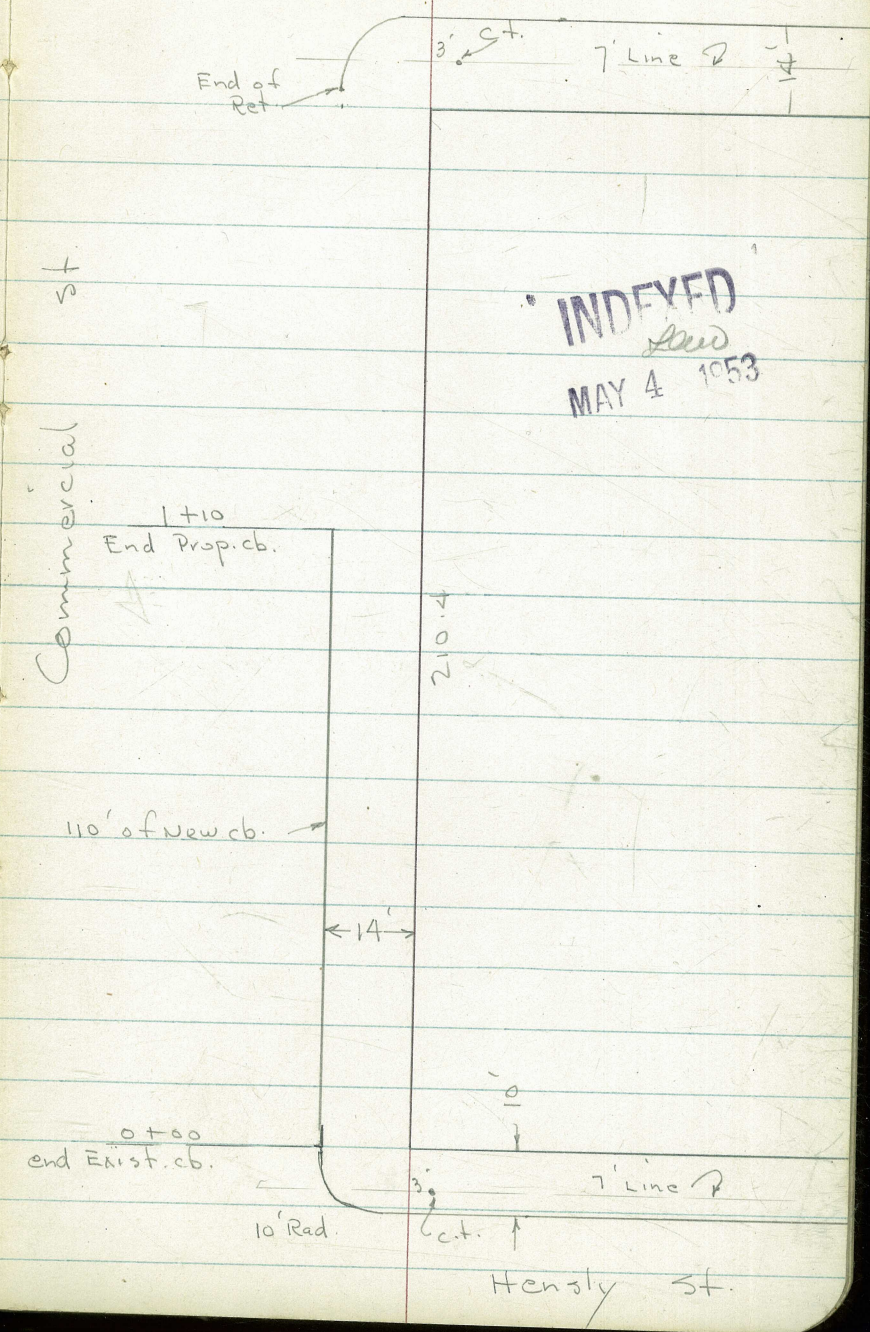
223.99 N.W.B.P. 1'ST & MAPLE

203.96 N.W.B.P. FRONT + LAUREL

INDEXED
APR 29 1953

Curb Stakes - N. side of Commercial
110' from W.L. Hensly to Evans.
W.O. 20007 - 4-31-53 7.0.

	=end of Ret.		=Grade
0+00 = W.L. Hensly			66.56 - 66.65'
+25	66.32	66.46 (32)	F 0.14
+50	66.09	66.27 (09)	F 0.18
+75	66.14	66.08 (14)	C 0.06
1+10	65.63	65.81 (63)	F 0.18



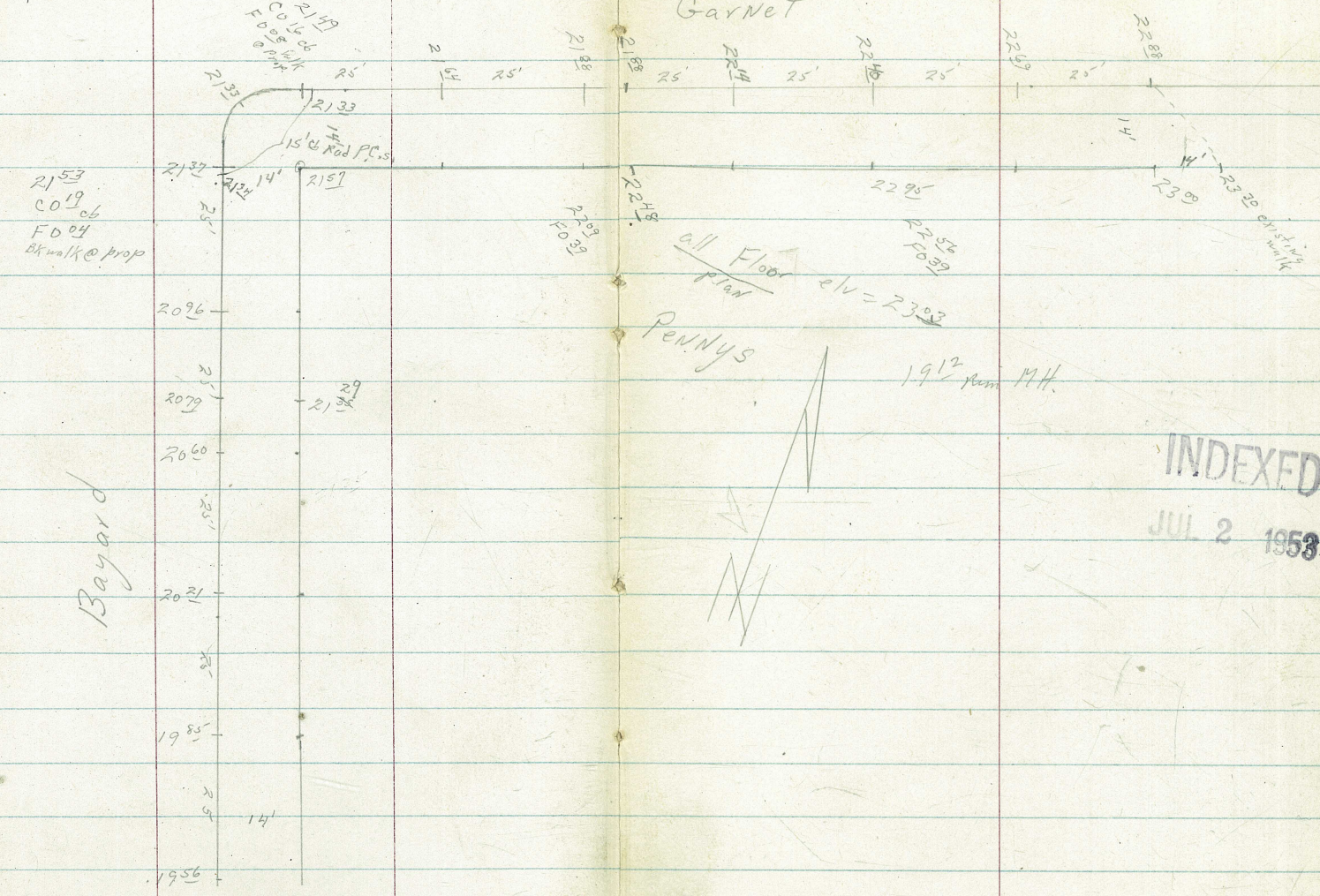
INDEXED
MAY 4 1953

D. Smith
R. Taylor

curb levels
Floor "

WO # 20005
7-1-53

3



INDEXED
JUL 2 1953

BM

1408 SEBP
Mission & Garnet

Lots 21-24 Blk 197 Pac. Beach

C.H.S. 10-1-53

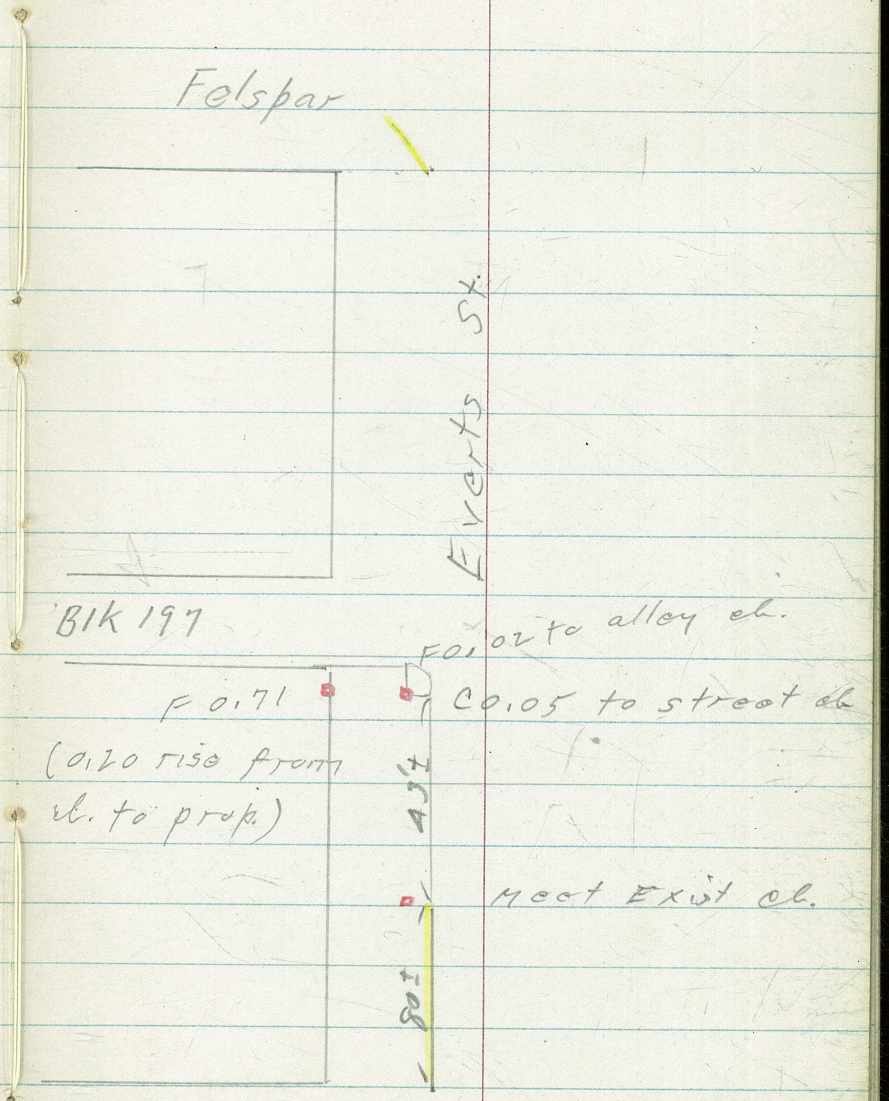
INDEXED
OCT 5 1953

yellow denotes Exist. gr.

" grades set 3' back of sk. face

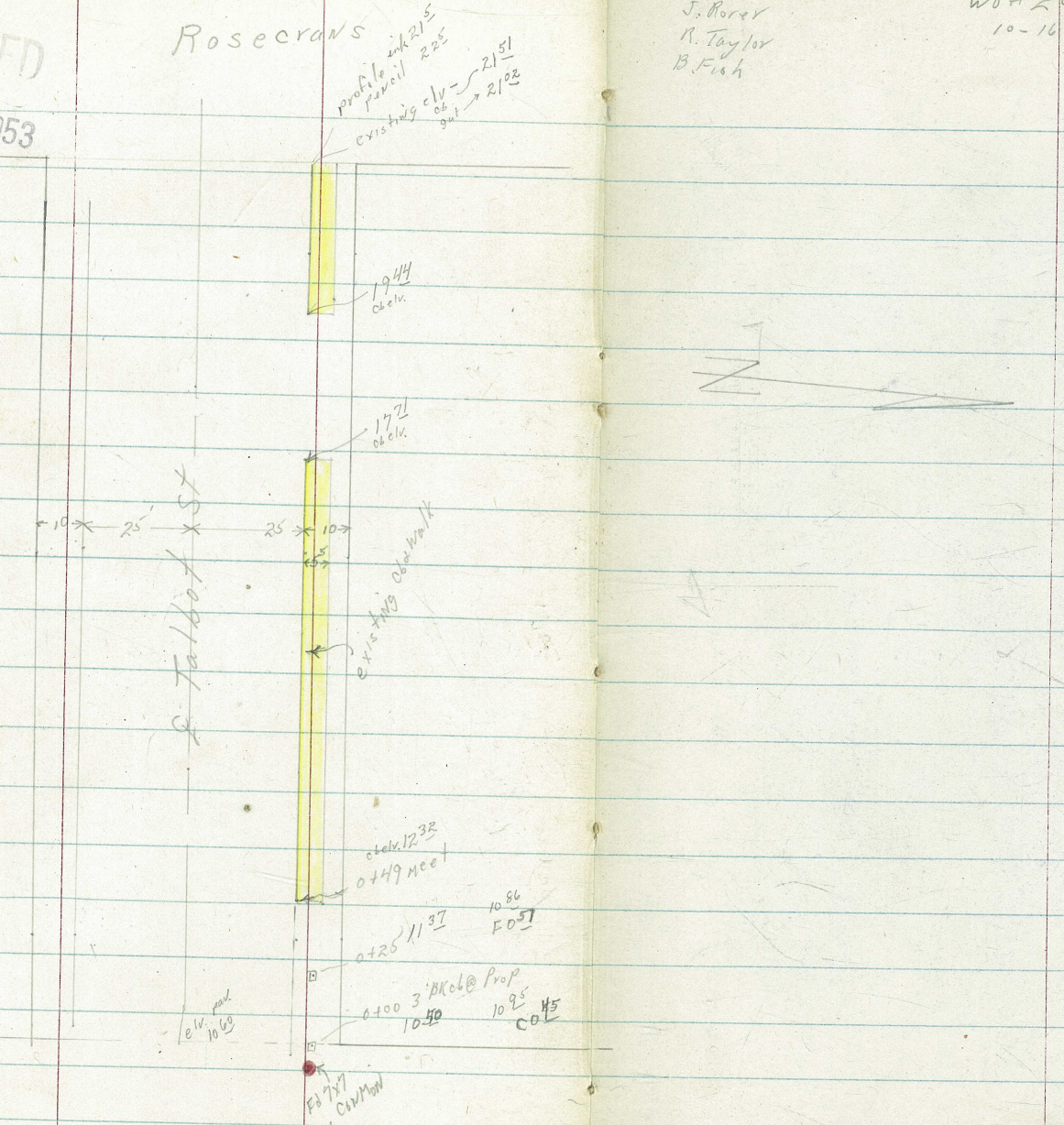
Straight grade Garnet to Felspar.

grades racked 17.



INDEXED
MER
OCT 19 1953

Rosecrans



D. Smith
J. Rorer
R. Taylor
B. Fish

W.O. # 20007
10-16-53

5

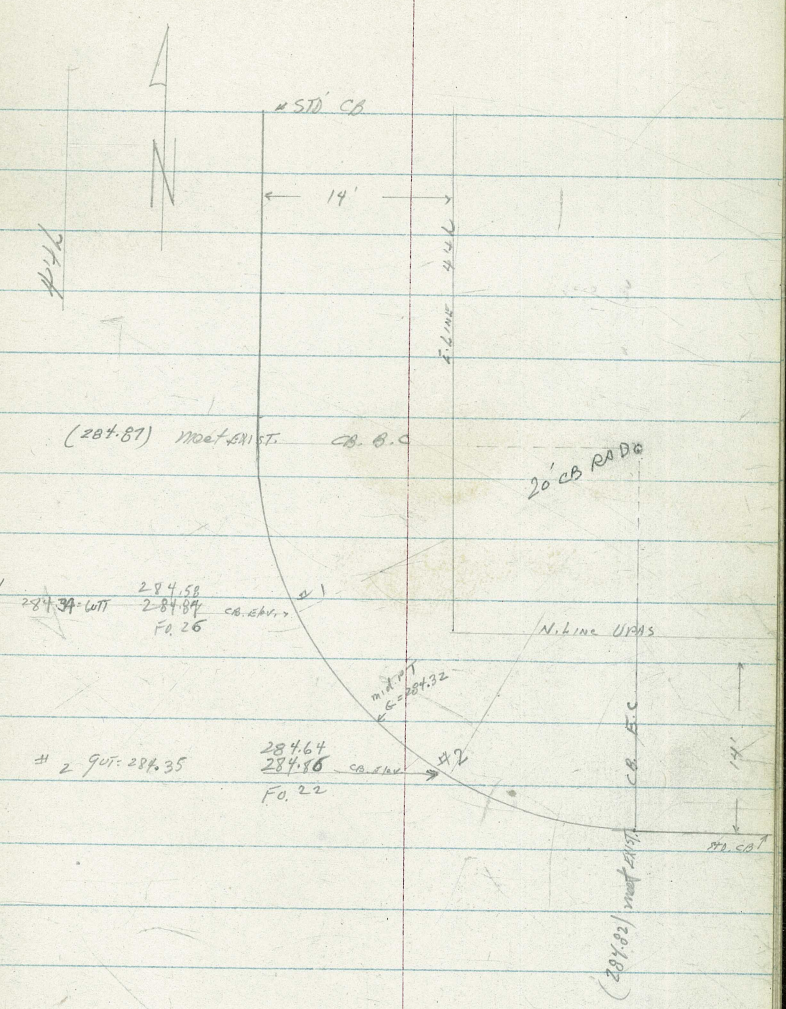
BM 27.82

N.W.B.R.
Rosecrans
&
Bessemer

Clawk
Shephard
Bruner
O'Neil
12-21-53
W.O. 20007

CB. Ref. N.EAST.
UPAS & 44th ST

UNDEVD
DEC 23 '53



B.M. Dk. Elev. Rod:

284.99 = N.E.B.P. UPAS & 44th

INDEXED
JER
JUN 24 1954

Stake Curbs - SE cor 7th + Broadway

Wo# 20007 - 24 June 1954

C. Allen, D. Sisson, C. Powell.

Elevation of 100.00 assumed at top cb

NELy Cor of Home Federal Savings

Property (0+00) - .5% grade maintained

from 0+00 to EC of 15' Radius

Return at station 0+56.21 ~ Straight

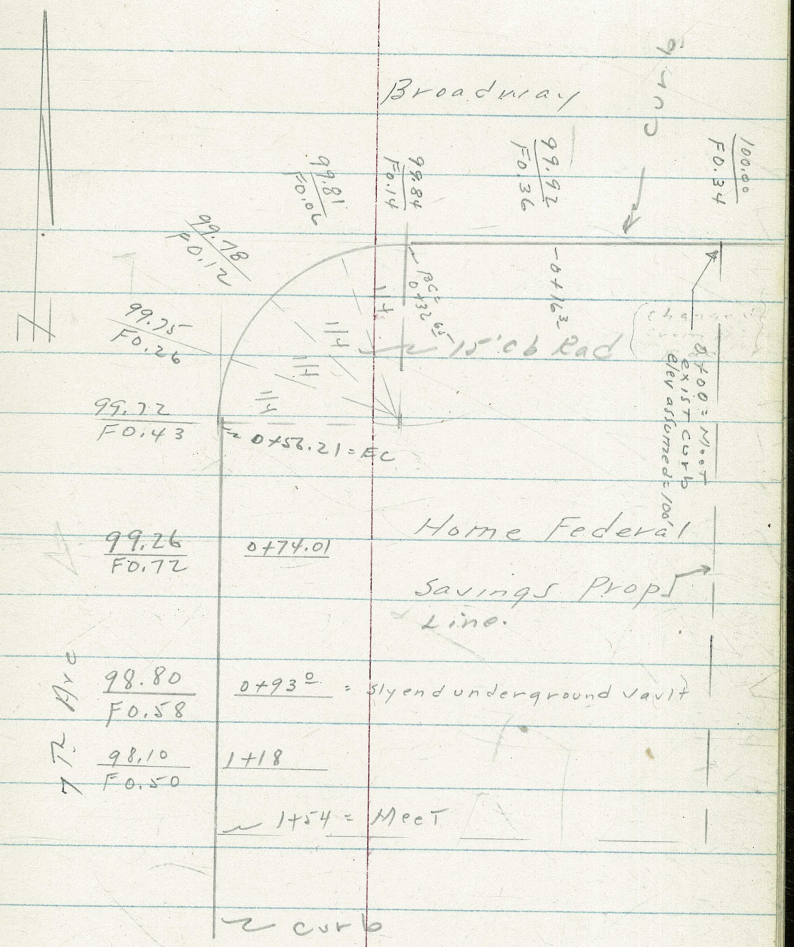
grade to opposite Manhole in

underground Vault at station

0+93 - Grade broken to Meet

existing Curbs at SWly Cor

Home Federal Savings & Loan.



INDEXED
JER
JUL 14 1954

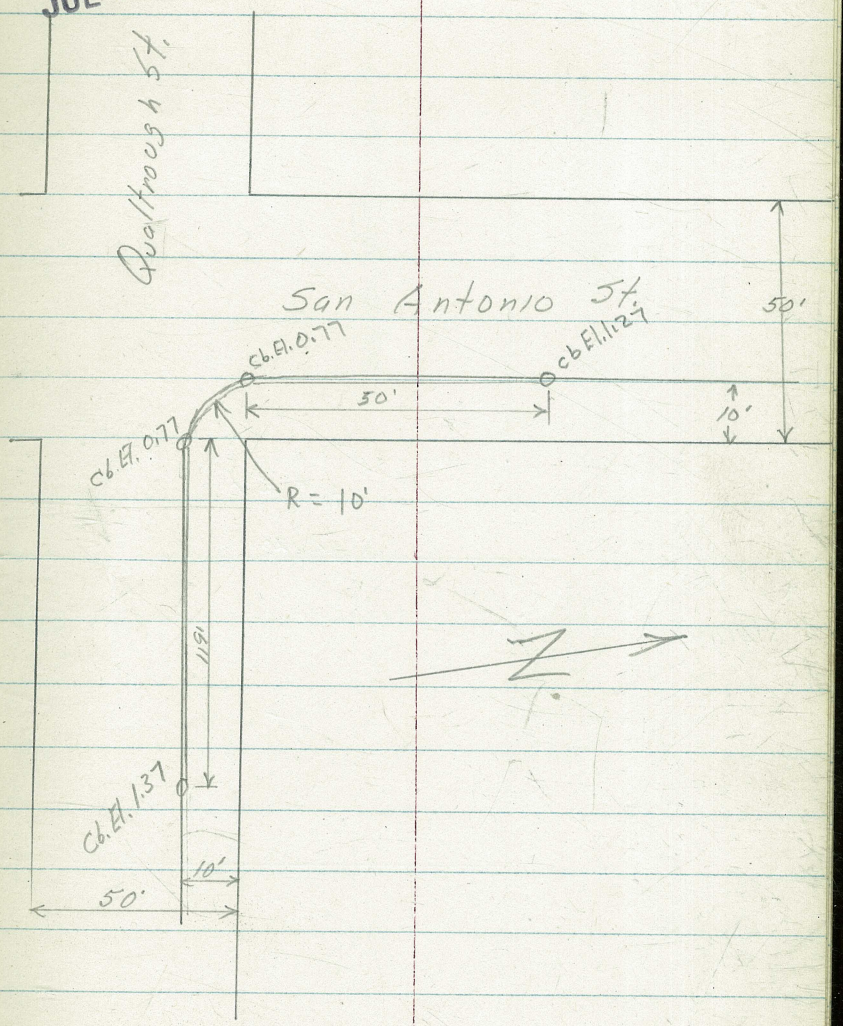
Stake cbs. N.E. Cor. Qualtrough and San Antonio

W.O. 20007 7- July 1954

Osborne

B.M. Brass Plug S.E Cor Rosecrans & Qualtroug

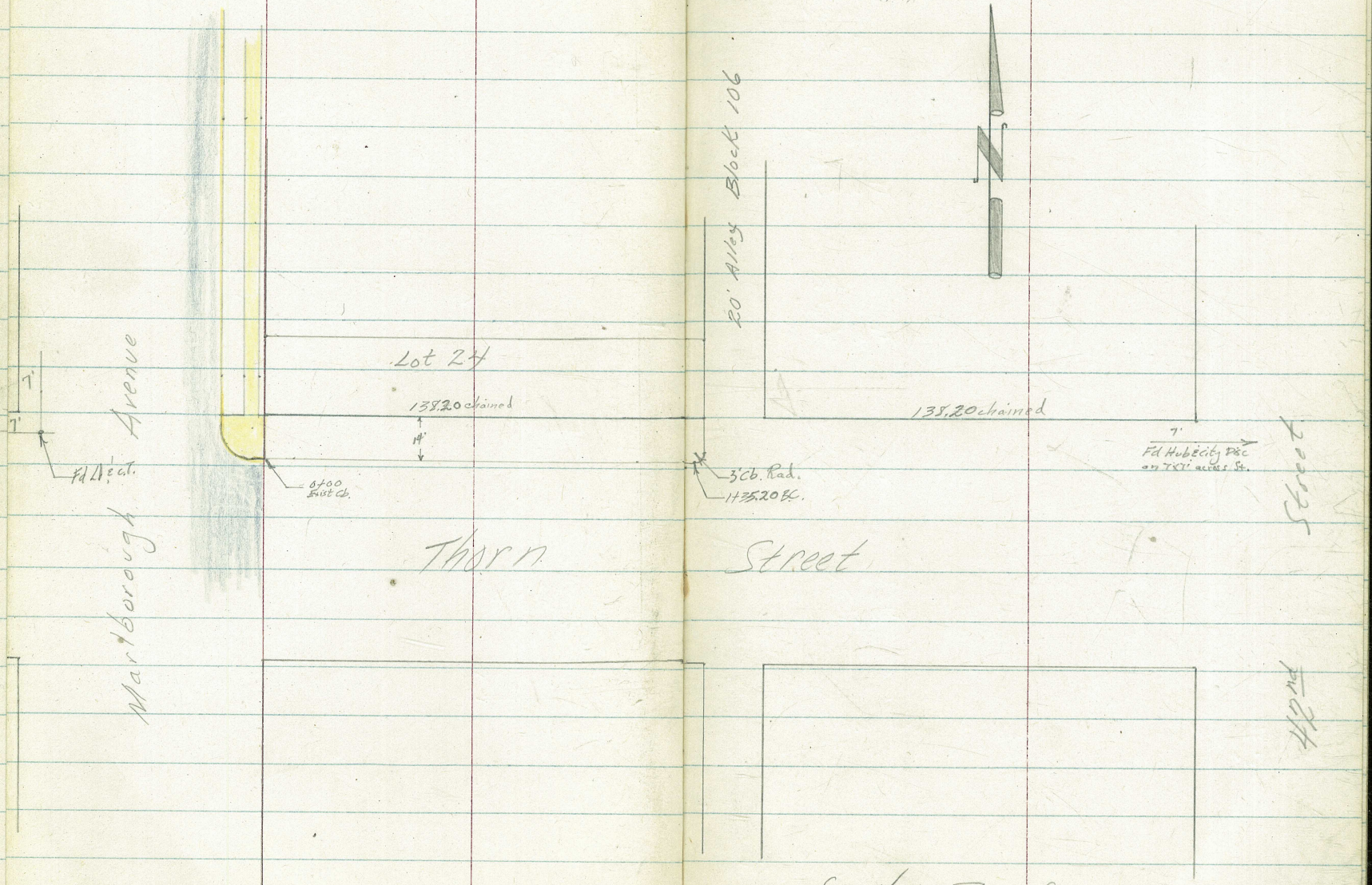
El. 61.80 (F.B. G-197-22).



Roberts
Cota
Moralez
Powell
7-23-54
K.O. # 20007

Grade Stakes for Curb
Lot 24 Block 106 City Hts
Permit # 21013

INDEXED
JUL 30 1954



See Next Page for Grades

1+25		300.54 300.37 ✓ F 0.17
1+00		300.65 300.56 ✓ F 0.09.
0+75		300.76 ✓ 300.52 F 0.24
0+50		300.87 300.53 ✓ F 0.34
0+25		300.98 ✓ 300.72 F 0.26
End Exist cb. 0+00 East Line Marlborough	(301.10 Profile)	Actual 301.09
BM		301.82 NWBP Marlborough & Thorn

West Line of 42nd St. (300.00 Profile) 299.80 Actual

2+96.40 Exist cb. End.
Last four feet settled.
Shot top of Inlet.

End Cb. at Prop. Line		300.63 300.55 ✓ F 0.08
1+35.20 on Alley	cb EC	300.52 300.39 ✓ F 0.13
1+35.20 on Thorn	cb. EC	300.50 ✓ 300.39 F 0.11

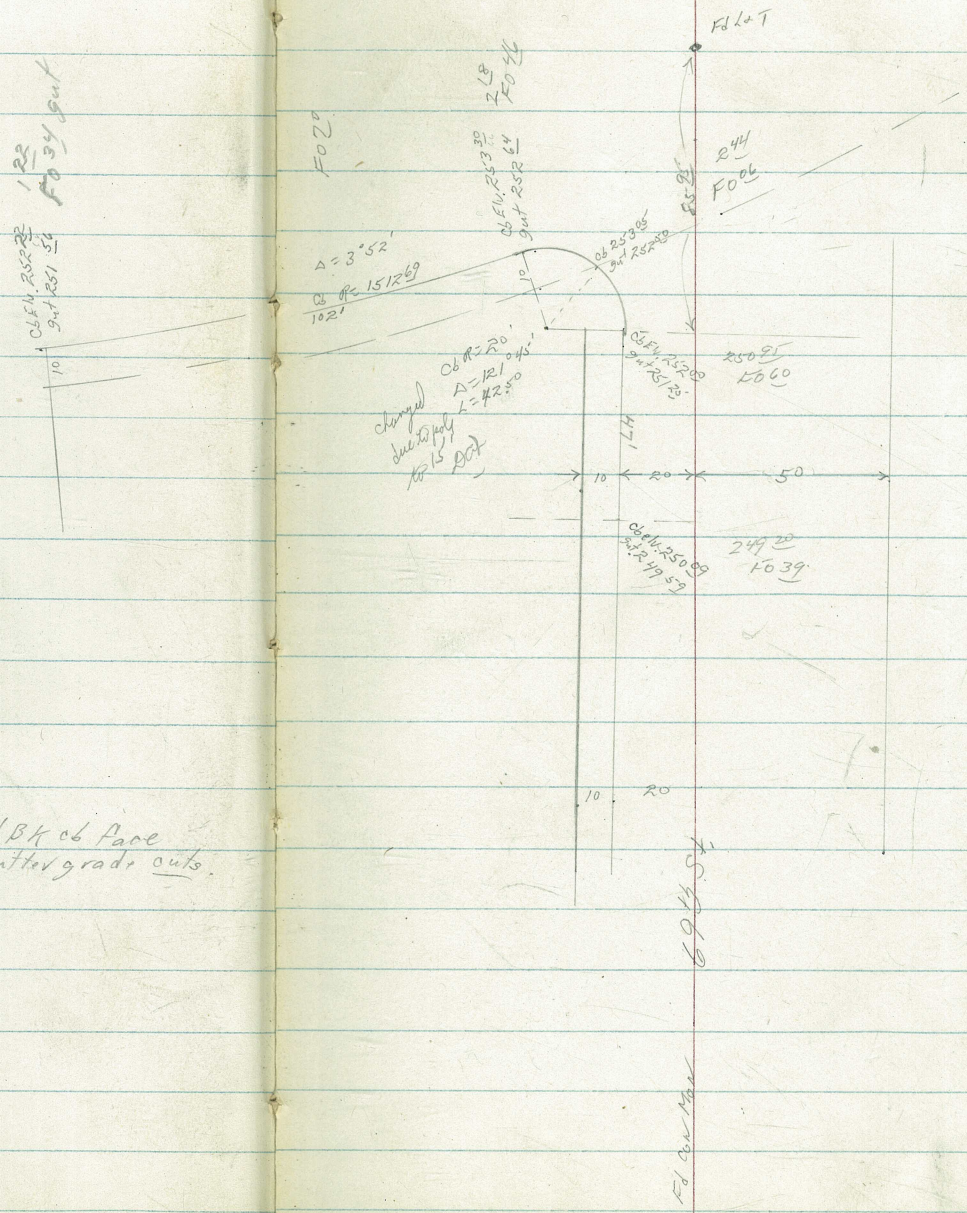
D. Smith
R Taylor
B Fish

WO# 62388
8-4-54

BM 249 31 | top Fire Hyd 68th & Imperial SW cor

Ref 5402-B

staked 3' BK cb face gutter grade cuts.



INDEXED
SEP 16 19

Curb GRADES 37th St

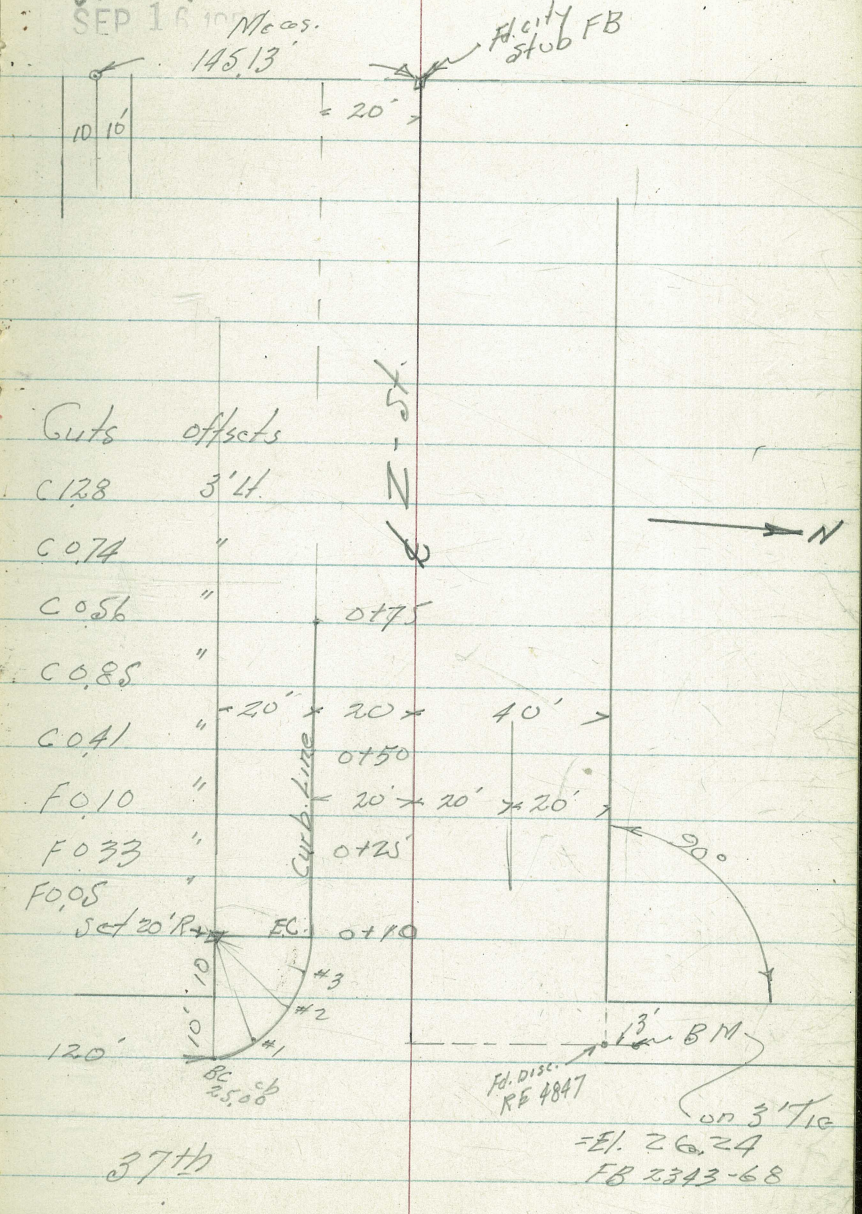
Lots 1, 2, 3, - Blk 3
SW HAINES ~~Add~~ Subd.
Map #965

Walker
Pope
Ottmun

9-15-54 Profile #2966

		El. Stakes	El. Curb Grade
0+75 - W.L.	Lot 3	25.26	23.98
0+50	" " 2	25.06	24.32
0+25	" " 1	25.22	24.66
E.C. Rot =0+10		25.71	24.86
Part 3		25.41	25.00
Part #2		25.00	25.10
Part #1		24.77	25.10
B.C. Rot on		24.95	25.00

Cb 20.88



CURB STAKES 37TH ST. (WEST SIDE)
SOUTH LINE Z TO 100' SOUTH

COTA
POPE
MORALEZ
BRUNER
9-30-54

W.O. #20007

INDEXED
MER
OCT 1 1954

22.16
21.63
0+98 C 0.83

22.13
22.42
0+75 F 0.29

24.08
23.28
0+50 C 0.80

24.58
24.14
0+25 C 0.44

24.94 STAKE ELEV.
25.00 CB. GRADE
F. 0.06
0+00 SO. LINE Z ST.

B.M. 26.24 L.&T.

N.W. COR. 37TH & Z
3' TIE BACK.

INDEXED
MER
DEC 15 1954

12-14-54

Stamper
Huffman
Nordahl
Elmore

14

Profile No 1203
TP 1294

CURB STAKES W'LY SIDE INGRAHAM ST THROUGH LOTS 33-38 BLK 3 BETWEEN FORTUNA AVE & PACIFIC BEACH DRIVE W.O. 20007 46.12

Constr Plans 8053-L
10056-L

Existing CB @ S.W. Cor Pac. Beach & Ingrahams

NOTE: Stakes Set 3' Back CB face

= 100' S'ly of S. Line Pac. Beach Drive		
1+50 Pac. Beach Drive	FO. 46 45.35 45.81	
1+25	FO. 35 45.41 45.76	
1+00	FO. 54 45.17 45.71 v	
0+75	FO. 54 45.12 45.66 v	
0+50	FO 58 45.04 45.62 v	
0+25	FO. 42 45.15 45.57 v	
0+00 = 275' N'ly of N'ly Line Fortuna St & W'ly Line Ingraham	FO. 65 44.87 45.52 v	
Curb 75 from St.		
	Exist. = 44.96	NW Curb @ Ingraham & Fortuna
B.M.	44.84	C.I. & Ingraham & Fortuna

0.19 %

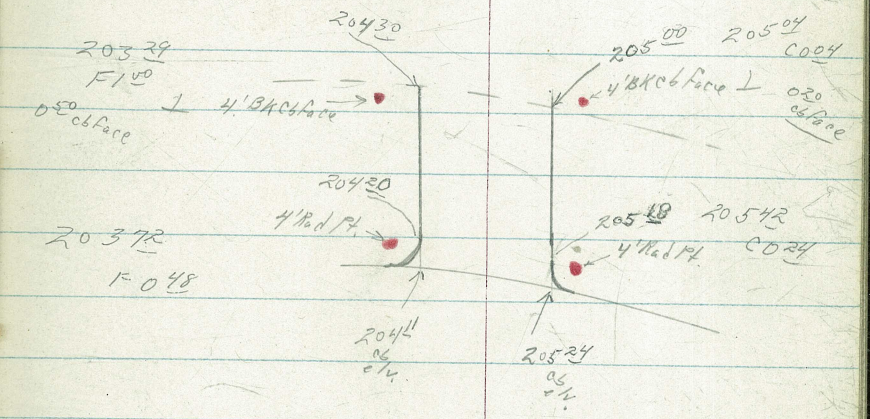
D. Smith
J. Rorer
R. Taylor
R. Hamilton

Curb Stake Alley Blk 20 Paridise Hills
Btwn Reo & Rancho on Cumberland

WO# 20006
12/20/54

INDEXED
MER
DEC 21 1954

Ref; see FB 2227-71 sketch & X sec,
Grade Profile 525 A.



BM

S.W.B.P.
210.41 Rancho Dg
Cumberland.

Cb Stake Alley Blk 19 Paradise Hills
on Cumberland St Btwn Reo & Morningside

INDEXED
AEK
DEC 22 1954

Ref File Map # 1936 sht 3 of 4
4550-B opening

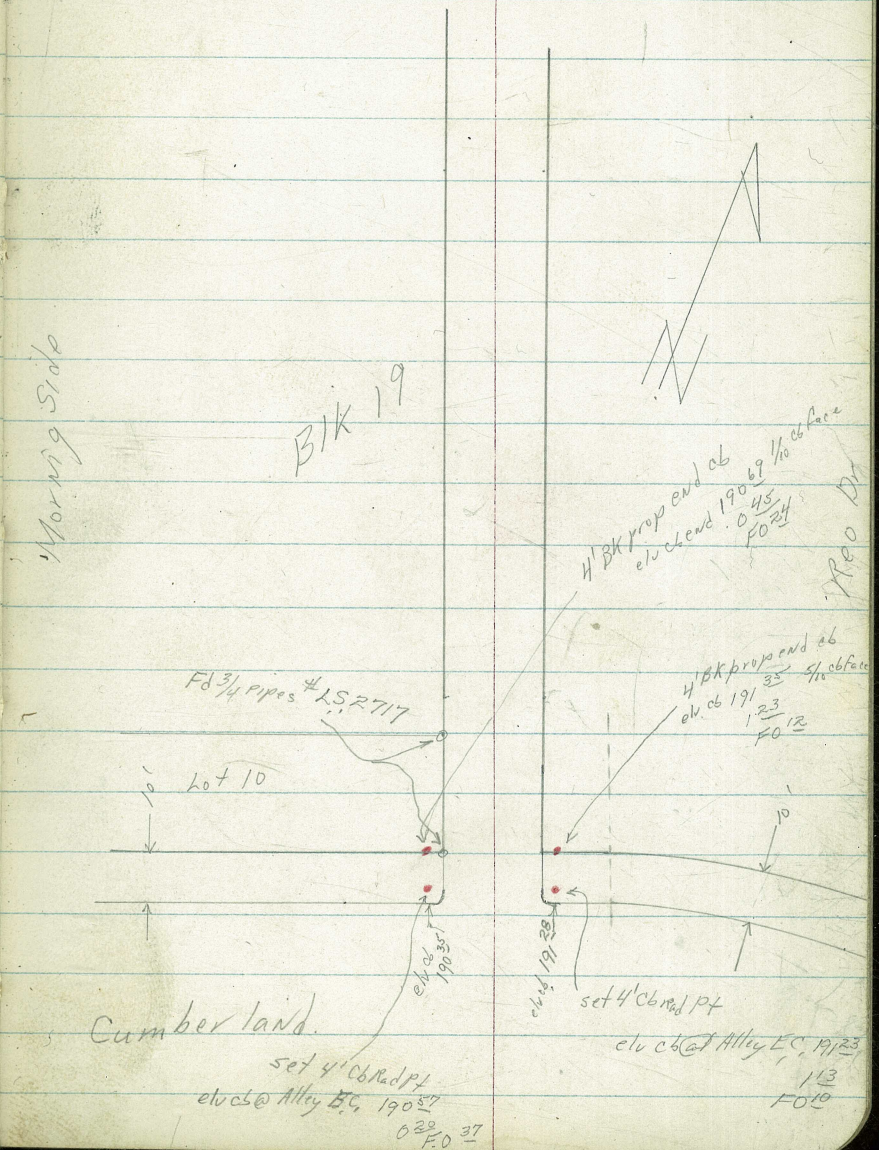
BM

194 89 SWBP Reo & Cumberland

D. Smith
J Rorer
R Taylor
R. Hamilton

wo# 20006
12/22/54

16



Curbs at Ely Cor University + College

Dwg 10124-L

2/5/55

C. Allen, W. Corbett, D. Sisson, C. Powell.

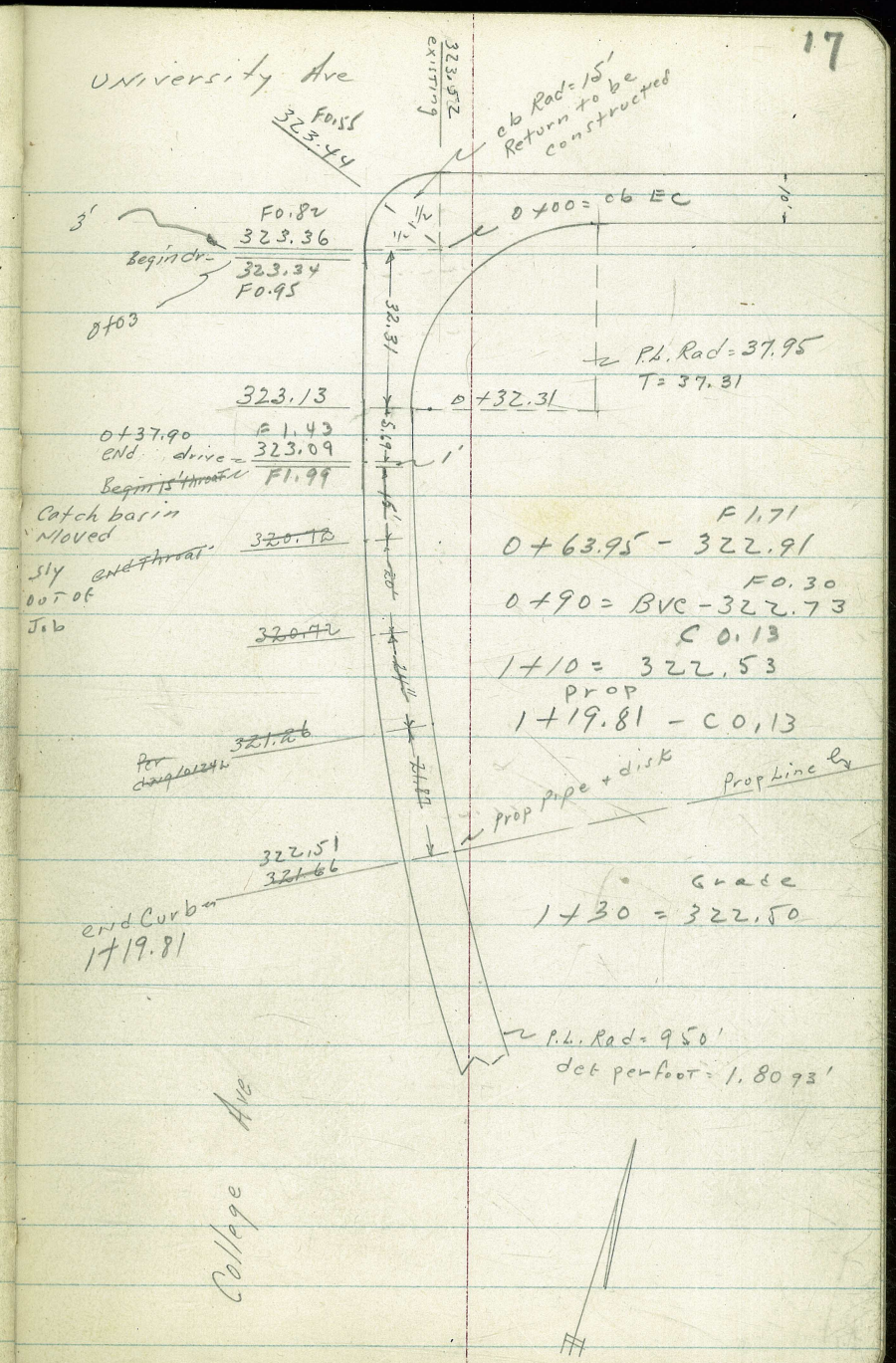
INDEXED
FEB 10 1955

BM = end existing Return = 323.52

Used This Grade

See Green Profile # 4326

	Top Cb Grade	stake
Midpt Ret	323.15	F0.26
Cb Ec. 15' Ret		
0+00	322.70	F0.16
0+03	322.60	F0.22
Prop BC		
0+32.31	322.08	F0.30
0+37.90	322.00	F0.90
& inlet		
0+65	321.87	F0.66
0+90	322.05	C0.38
1+10	322.15	C0.52
Prop		
1+19.81	322.20	C0.43
1+30	322.30	C0.21

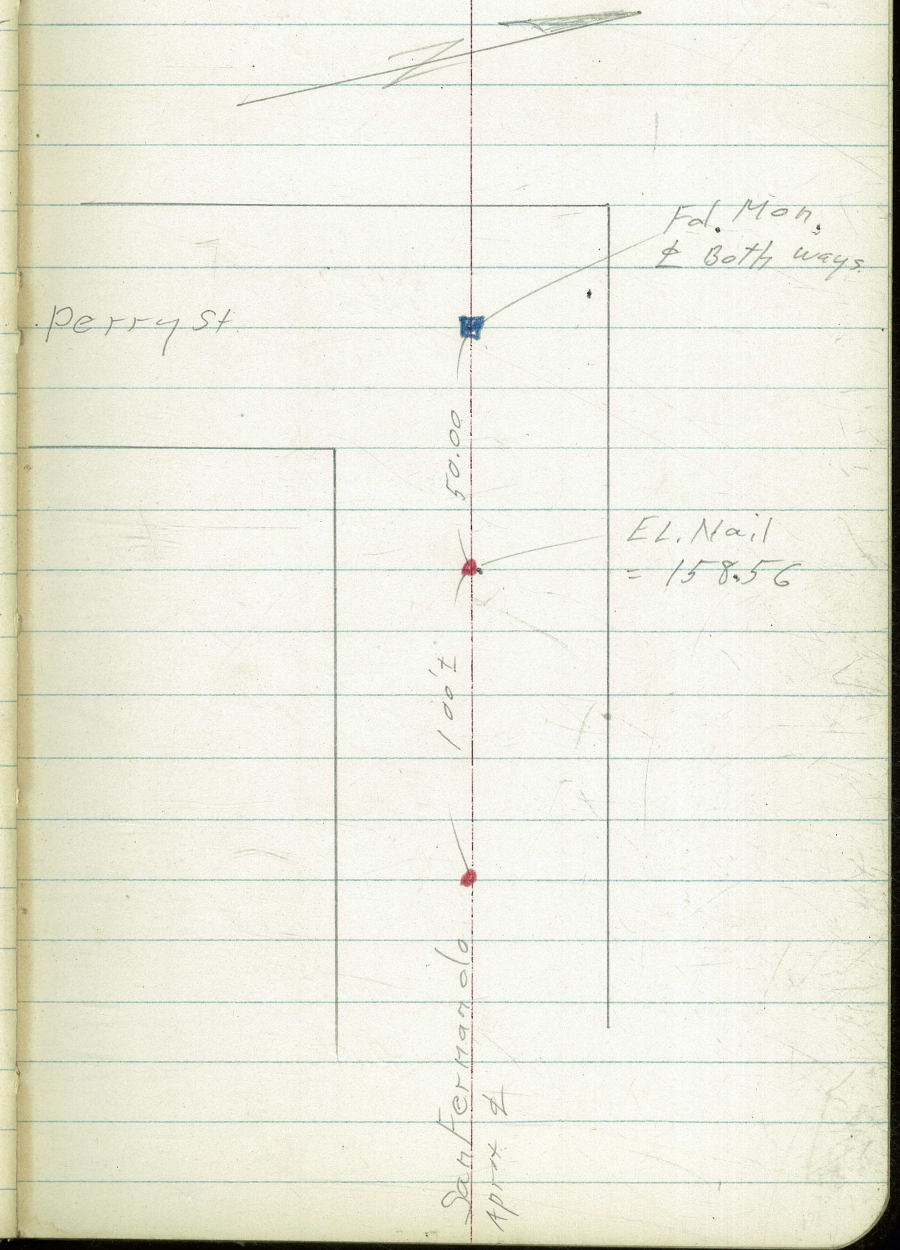


Perry + San Fernando.

Ties + B.M. for Curb + Street ℄

6-21-55
C.H.S.
Bagg
Schelin
Flora

INDEXED
JER
JUN 21 1955



Roberts
Rorer
Moore
Moralez
7-13-55
W.O.#20007

Grade Stakes For Curb Calle Trepadora
Between Potomac & Cumberland
Permit # 15985
11054-L
Lots 16, 19 & 20 Tres Lomas

INDEXED
JUL 14 1955

1+21.84 So. End Lot 19	303.45 303.19 C 0.26			
1+00	304.47 303.39 F 1.08			
0+75	305.94 304.78 F 1.16		0+50 So. End Lot 16	296.84 296.40 C 0.44
0+50	307.41 306.39 F 1.02		0+40 So. End Lot 16	297.41 296.65 C 0.76
0+25	308.88 308.03 C 0.85		0+20	297.56 297.22 C 0.34
0+00 No. End Lot 20	310.45 310.35 C 0.10		0+00 No. End Lot 16	298.86 297.93 C 0.93

BM

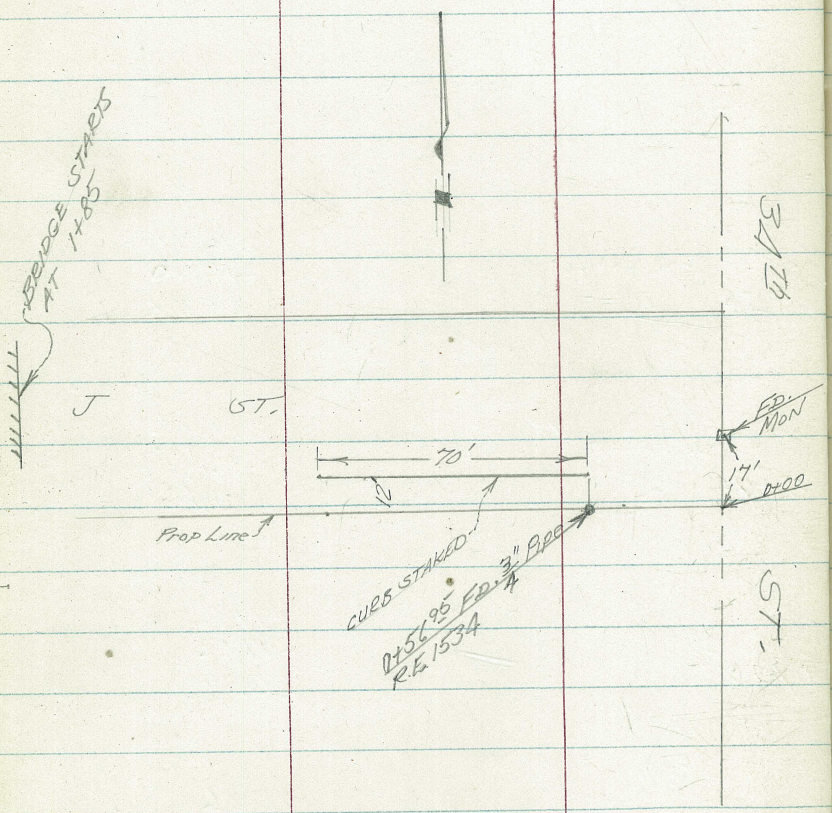
SEBP
291.02 Cumberland & Agua Dulce

STAKE CURB ON "J" ST. ELY. OF 33rd FRONTING LOTS 7,8,9

REFERENCE: 5644B

COTA
GARBER
KELLEY
PULLEN
7-25-55
W.O.# 20007

INDEXED
JUL 28 1955



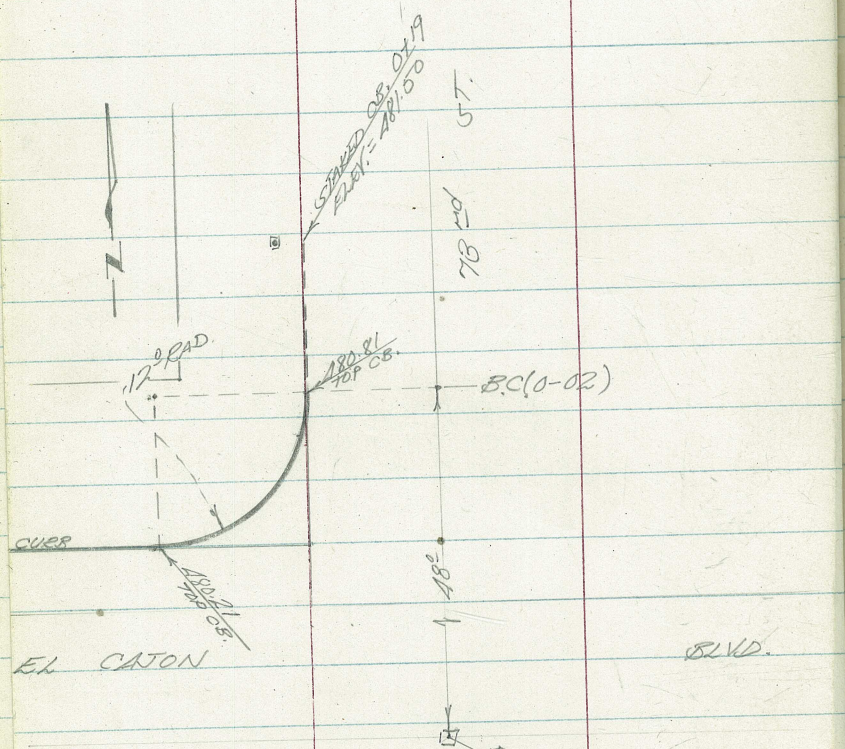
1+26.95	32.85 32.93 G. F 0.08
1+10	32.14 32.37 F 0.23
1+00 ℄ exist. cb. inlet.	32.24 32.24 CHECKS O.K.
0+90	32.40 32.26 C 0.14
0+73.47	32.49 32.39 C 0.10
0+56.95	32.61 Stake 32.53 Grade C 0.11

USED DIRECT ELEV. ROD

B.M. 32.51 G.W. Conc. Mon. 34th & "J"

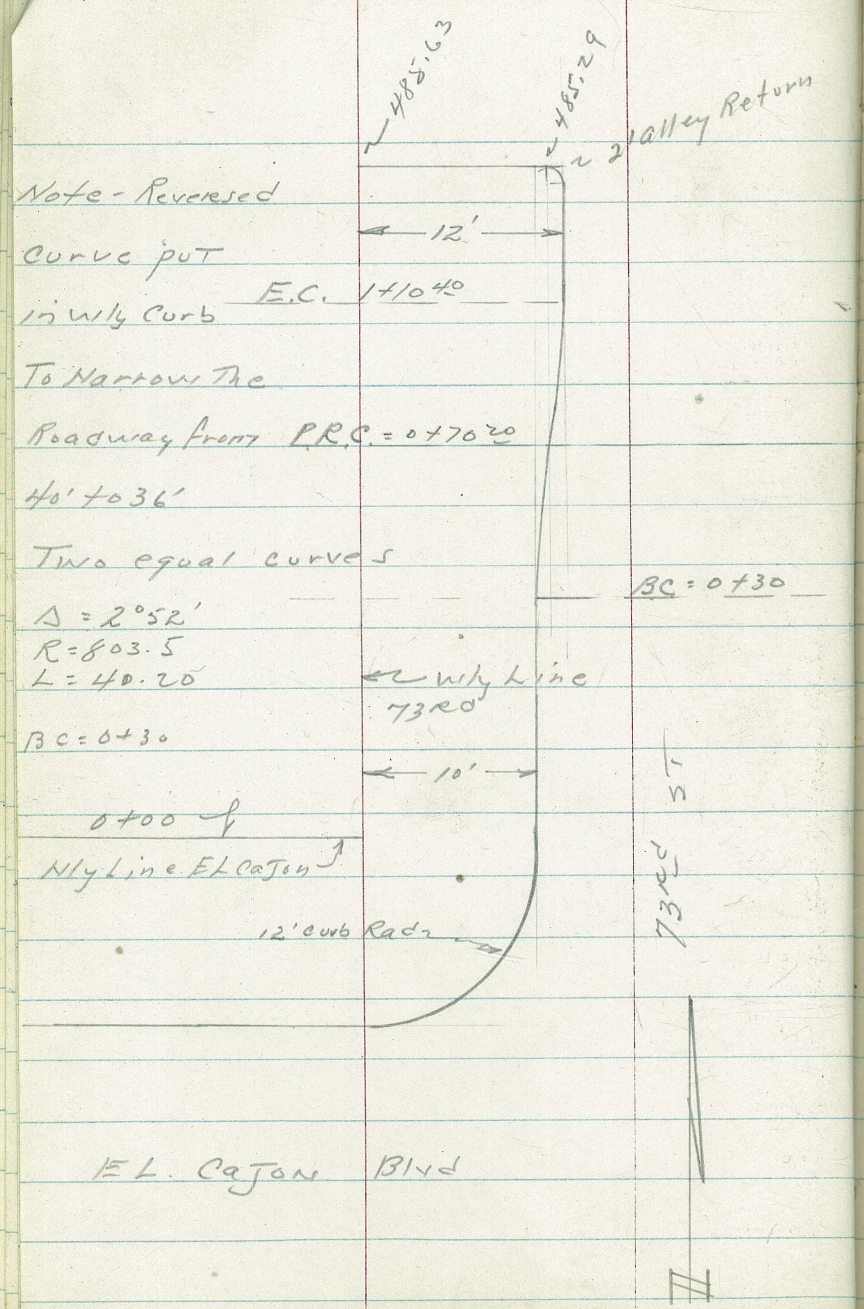
TOPO & STAKES N.W. COR. EL CAJON & 73rd

COTA
KELLEY
FULLER
8-16-55
W.O.# 20007



181.50 = GRADE
180-83 = STUB
F 0.67

B.M. S.W.B.P. EL CAJON & 72nd = 180.16



Stake Curbs - 73rd St
Nly of EL Cajon & on Wly side of
73rd St

Grades from Dwg 7780-L-

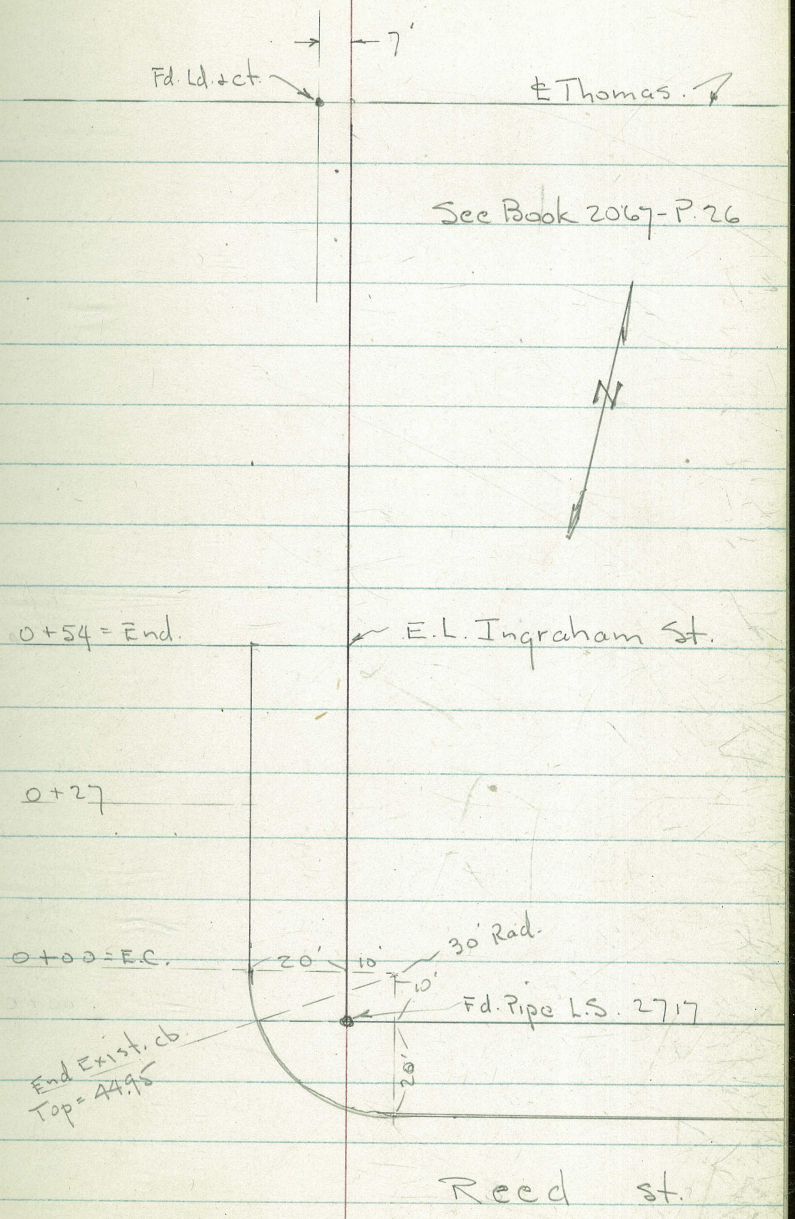
INDEXED
SEP 21 1956

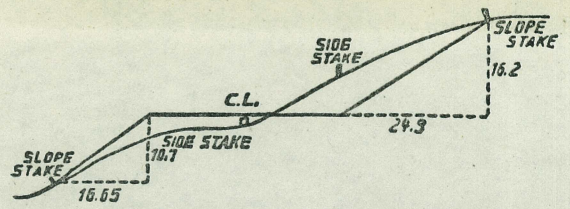
	Top Curb Grade	Elev of Stake
at Wly P.L. 73rd		
Wly end of Alley Return	485.63	486.36 - CO 73
Alley E.C.	485.29	486.69 - C 1.40
1+38 = Alley BC. 2' Rad	485.25	486.69 - C 1.44 + 0 ST
1+30	484.98	486.28 - C 1.30
1+10.40 = EC. & BVC	484.30	485.46 C-1.16
1+00.35	483.98	484.93 - CO 95
0+90.30	483.64	484.30 - CO 66
0+80.25	483.30	483.88 - CO 58
0+70.20 (P.R.C.)	482.96	483.25 - CO 29
0+60.15	482.63	482.70 - CO 07
0+50.10	482.29	CO.02 482.31
0+40.05	481.95	481.67 - FO.28
0+30 = BC	481.61	FO.07 481.54
0+10	480.94	480.49 - FO.45
0+00 = Nly of EL Cajon	Meet	

Stake curb - E. Side Ingraham - N. of Reed

W.O. 25020 6-4-56 7.0

B.M. = Ld+ct ℄ Ingraham + Reed		44.16	
0-10 = End cb.		44.95	
See Plan - 9022-L			
0+00 = E.C.	45.01	45.12	F 0.11
0+27	45.86	45.43	C 0.43
0+54 = End	45.90	45.74	C 0.16





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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