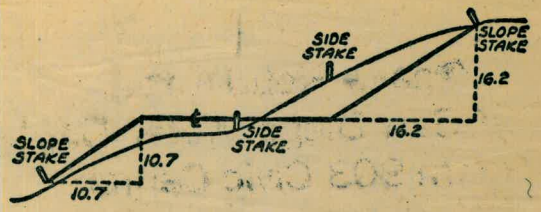


Distances from Side Stakes for Cross-Sectioning

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.

5.14.38
508.95
5.43

3-27 = 519.37
2 ft 28 = 521.62

520.16
14.37
39

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

INDEX

Roof Slab Elevs.
North Coping Wall

West
Williams
Kellhofer
Smith

Cold & Cloudy
2/28/57

T.B.M. Coping Wall	4.24	537.22 5.36 Grade Rod.		532.98	Top F.H.
18-19		5.32	531.90	531.86	.04 H
		5.33	531.89	"	.03 H
		5.33	531.89	"	.03 H
19-20		5.32	531.90	"	.04 H
		5.33	531.89	"	.03 H
		5.32	531.90	"	.04 H
20-21		5.31	531.91	"	.05 H
		5.33	531.89	"	.03 H
		5.33	531.89	"	.03 H
21-22		5.33	531.89	"	.03 H
		5.31	531.91	"	.05 H
		5.33	531.89	"	.03 H
22-23		5.33	531.89	"	.03 H
		5.33	531.89	"	.03 H
		5.32	531.90	"	.04 H
23-24		5.33	531.89	"	.03 H
		5.33	531.89	"	.03 H
		5.33	531.89	"	.03 H
24-25		5.32	531.90	"	.04 H

NOTE
Three shots taken on each slab. (End, Middle & End.)

2/28/57

	537.22				
24-25		5.34	531.88	531.86	.02 H
		5.32	531.90	"	.04H
25-26		5.33	531.89	"	.03H
		5.33	531.89	"	.03H
		5.34	531.88	"	.02H
CHK. B.M.		4.24	532.98 = 532.98		
B.M. LINE 2	4.24	537.22 5.27 GRADE ROD.	532.98		
16-17		5.21		531.95	.06 H
		5.17		"	.06H
		5.22		"	.05H
17-18		5.22		"	.05H
		5.17		"	.06H
		5.14		"	.13H
18-19		5.14		"	.13H
		5.15		"	.08H
		5.18		"	.09H
19-20		5.19		"	.08H
		5.19		"	.04H
		5.20		"	.07H
20-21		5.19		"	.08H

2/28/57

	537.22			
20-21		5.16	531.45	.07H
		5.17	"	.10H
21-22		5.19	"	.08H
		5.15	"	.08H
		5.21	"	.06H
22-23		5.20	"	.07H
		5.19	"	.04H
		5.21	"	.06H
23-24		5.22	"	.05H.
		5.19	"	.04H
		5.20	"	.07H
24-25		5.20	"	.07H
		5.19	"	.04H
		5.18	"	.09H
25-26		5.19	"	.08H
		5.21	"	.02H
		5.24	"	.03H
LINE V	5.16 GRADE ROD			
15-16		5.18	532.06	.02 LO
		5.08	"	.04H
		5.03	"	.13H

2/28/57

	537.22			
16-17	5.04	532.06	.12 H	
	5.05	"	.07H	
	5.06	"	.10H	
17-18	5.06	"	.10 H	
	5.03	"	.09H	
	5.09	"	.07H	
18-19	5.09	"	07 H	
	5.06	"	.06H	
	5.08	"	08H	
19-20	5.07	"	.09H	
	5.06	"	06 H	
	5.09	"	07H	
20-21	5.08	"	08 H	
	5.07	"	05H	
	5.09	"	07 H	
21-22	5.10	"	06H	
	5.07	"	05H	
	5.14	"	02H	
22-23	5.14	"	02 H	
	5.07	"	05H	

2/25/57

	537.22		
22-23	5.10	532.06	06H
23-24	5.10	"	06H
	5.07	"	05H
	5.12	"	04H
24-25	5.11	"	05H
	5.09	"	03H
	5.12	"	04H
25-26	5.12	"	04H
	5.05	"	07H
	5.12	"	04H
LINE X	5.07 GRADE ROD		
15-16	5.06	532.15	01H
	5.00	"	03H
	4.96	"	11H
17-18	5.01	"	06H
	4.97	"	06H
	5.01	"	06H
19-20	5.01	"	06H
	4.98	"	05H
	5.00	"	07H
20-21	4.99	"	08H

2/28/57

	537.22		
20-21	4.97	532.15	06 H
	4.99	"	08 H
21-22	5.00	"	07H
	4.95	"	08H
	5.03	"	04H
22-23	5.02	"	05H
	4.97	"	06 H
	5.00	"	07H
23-24	5.01	"	06H
	4.98	"	05H
	5.02	"	05H
24-25	5.01	"	06H
	4.97	"	06H
	4.97	"	10H
25-26	4.96	"	11H
	4.96	"	07H
	5.00	"	07H
Chk. B.M.	4.24	532.98 = 532.98	Top FH.

Chk. Floor Elevs.

West
Williams x
Kellehoffer ϕ

Warm
7.

4-5-57

BM	4.82	514.75 (Grade Rod 5.71)	509.93	On Floor (West)
10 C		5.72	509.04	
9 C		5.72	"	
8 C		5.72	"	
7 C		5.74	"	
6 C		5.72	"	
5 C		5.79	"	
4 C		5.74	"	
3 C		5.73 (5.62 Grade Rod)	"	
3 D		5.64	509.13	
4 D		5.60	"	
5 D		5.62	"	
6 D		5.62	"	
7 D.		5.62	"	
8 D		5.60	"	
9 D		5.62	"	
10 D		5.61 (5.53 Grade Rod)	"	
10 E		5.52	509.22	
9 E		5.54	"	

4/5/57

CHECK FLOOR EL.

	514.75 (5.53 ROD)	
8E	5.53	509.22
7E	5.53	"
6E	5.54	"
5E	5.54	"
4E	5.54	"
	(5.44 GRADE ROD)	
4F	5.40	509.31
5F	5.40	"
6F	5.42	"
7F	5.42	"
8F	5.40	"
9F	5.41	"
10F	5.40	"
	(5.35 GRADE ROD)	
10G	5.32	509.40
9G	5.34	"
8G	5.31	"
7G	5.33	"
6G	5.33	"
5G	5.31	"
4G	5.30	"

4/5/57

Check	Floor El	
	514.75 (5.35 Grade Rod)	
3G	5.35	509.40
	(5.25 Grade Rod)	
3H	5.23	509.50
4H	5.22	"
5H	5.20	"
6H	5.23	"
7H	5.21	"
8H	5.23	"
9H	5.21	"
10H	5.20	"
	(5.16 Grade Rod)	
10 I	5.15	509.59
9 I	5.11	"
8 I	5.13	"
7 I	5.13	"
6 I	5.14	"
5 I	5.11	"
4 I	5.13	"
3 I	5.13	"
Check B.M	4.82	509.93 = 509.93

Check Floor Elevs.

West
Williams ✗
Kellhofer ✗

Sunny
4/8/57

BM.	4.72	514.65 (4.97 Grade Rod)	509.93	On Floor (West)
10 J		4.89	509.68	
9 J		4.93		
8 J		4.94		
7 J		4.91		
6 J		4.95		
5 J		4.92		
4 J		4.92		
3 J		4.89 (4.88 Grade Rod)		
10 K		4.86	509.77	
9 K		4.86		
8 K		4.88		
7 K		4.83		
6 K		4.86		
5 K		4.85		
4 K		4.83		
3 K		4.84 (4.79 Grade Rod)		
10 L		4.77	509.86	
9 L		4.77 (4.79 Grade Rod)		

SAME PARTY

4/8/57

CHECK		FLOOR EL.	
		514.65 (4.79 GRADE ROD)	
8 L		4.76	509.86
7 L		4.73	
6 L		4.79	
5 L		4.78	
4 L		4.76	
3 L		4.73 (4.70 GRADE ROD)	
3 M		4.73	509.95
4 M		4.67	
5 M		4.68	
6 M		4.67	
7 M		4.67	
8 M		4.66	
9 M		4.69	
10 M		4.69	
CHECK BM		4.72	509.93=509.93
BM.	4.76	514.70 (5.66 GRADE ROD)	509.94
11 C		5.65	509.04
12 C		5.64	
13 C		5.68	

ON FLOOR (EAST)

SAME PARTY

9/8/57

CHECK	FLOOR EL.	
	514.70 (5.66 GRADE ROD)	
14 C	5.68	509.04
15 C	5.64	
16 C	5.65	
17 C	5.65	
18 C	5.65	
19 C	5.69	
20 C	5.66	
21 C	5.68	
22 C	5.65	
23 C	5.67	
24 C	5.63	
25 C	5.66	
26 C	5.66	
27 C	5.66	
	(5.57 GRADE ROD)	
27 D	5.58	509.13
26 D	5.56	
25 D	5.54	
24 D	5.58	
23 D	5.54	

SAME PARTY

4/8/57

CHECK	FLOOR EL.	
	514.70	
	5.57 GRADE ROD	
22 D	5.54	509.13
21 D	5.56	
20 D	5.56	
19 D	5.56	
18 D	5.53	
17 D	5.56	
16 D	5.53	
15 D	5.51	
14 D	5.56	
13 D	5.57	
12 D	5.55	
11 D	5.55	
	(5.48 GRADE ROD)	
11 E	5.43	509.22
12 E	5.44	
13 E	5.46	
14 E	5.45	
15 E	5.45	
16 E	5.44	
17 E	5.47	

CHECK FLOOR EL.

SAME PARTY

4/8/57

	514.70 (5.18 GRADE ROD)	
18 E	5.44	509.26
19 E	5.42	
20 E	5.41	
21 E	5.43	
22 E	5.42	
23 E	5.43	
24 E.	5.47	
25 E	5.42	
26 E	5.45	
27 E	5.41 (5.39 GRADE ROD)	
27 F	5.35	509.31
26 F	5.36	
25 F	5.40	
24 F	5.41	
23 F	5.38	
22 F	5.35	
21 F	5.37	
20 F	5.35	
19 F	5.37	

CHECK FLOOR EL.

SAME PARTY

4/8/57

514.70
(5.39 GRADE ROD)

18F	5.38	509.31
17F	5.36	
16F	5.34	
15F	5.37	
14F	5.39	
13F	5.39	
12F	5.33	
11F	5.36	
CHECK B.M.	4.76	509.94=509.94

WEST, WILLIAMS, KELLHOFER, & BULL

4-17-57

T.B.M. ON FLOOR OF RESERVOIR

FLOOR ELEVS.

T.B.M. B LINE	4.44	514.38 (5.43 GRADE ROD)	509.94
3B	5.39		508.95
4B	5.38		"
5B	5.39		"
6B	5.34		"
7B	5.39		"
8B	5.37		"
9B	5.38		"
10B	5.40		"

(CONT'D.)

SAME PARTY

WARM
4-17-57

	5.14.38 (5.43 GRADE ROD)	
11B	5.41	508.95
12B	5.38	"
13B	5.40	"
14B	5.38	"
16B	5.39	"
17B	5.39	"
18B	5.37	"
19B	5.42	"
20B	5.40	"
21B	5.42	"
22B	5.40	"
23B	5.39	"
24B	5.44	"
25B	5.43	"
26B	5.41	"
27B	5.41	"
CHK T.BM.	4.44	509.94 = 509.94

Chk. Footing Elevs. on Sly. Slope

West
Williams T.
Kellhofer
Bull ϕ

Warm
4-17-57

T.B.M.	10.23	520.16		509.93	T.BM. on floor of reservoir
2 A			+1.46	521.62	521.62
3 A			0.93		519.37
4 A			0.89		"
5 A			0.82		"
6 A			0.86		"
7 A			0.91		"
8 A			0.84		"
9 A			0.84		"
10 A			0.85		"
11 A			0.86		"
12 A			0.83		"
13 A			0.79		"
14 A			0.84		"
15 A			0.83		"
16 A			0.81		"
17 A			0.80		"
18 A			0.84		"
19 A			0.82		"
20 A			0.81		"

SAME PARTY

18

4-11-57

	520.14		
21 A	0.84		514.37
22 A	0.81		"
23 A	0.81		"
24 A	0.83		"
25 A	0.79		"
26 A	0.80		"
27 A	0.80		"
28 A	+1.46	521.62	521.62
Chk. T.B.M.	10.23	509.93	= 509.93

South West Cor. Butt. Col. A. 1
Stk. & Grd.

B.M.	4.90	535.21	530.31	
S.W. Butt.		4.96	530.25	531.62
Chk. B.M.		4.90	530.31 =	530.31

West
Williams
Kellhofer
Bull

May 3, 1957

End of Curb.
F 1.37

Earl Thomas Reservoir
Roof Slab Elev's.

WEST
WILLIAMS
KELLHOFER
BULL

MAY 6, 1957

			Conc. Mon. N.E. Cor. Res.
B.M.	6.083	537.606	531.523
NW 28 Z		5.612	
NW 27 Z		5.587	
NW 26 Z		5.623	
NW 25 Z		5.600	
NW 24 Z		5.603	
NW 23 Z		5.617	
NW 22 Z		5.612	
NW 21 Z		5.585	
NW 20 Z		5.599	
NW 19 Z		5.599	
SW 18 Z		5.544	
NW 17 Z		5.629	
SE 15 Y		5.531	
NW 16 Y		5.448	
NW 17 Y		5.475	
NW 18 Y		5.482	
NW 19 Y		5.488	
NW 20 Y		5.515	

	537.606	
NW 21 Y		5.516
NW 22 Y		5.558
NW 23 Y		5.511
NW 24 Y		5.535
NW 25 Y		5.545
NW 26 Y		5.528
NW 27 Y		5.501
NW 28 Y		5.534
NE 28 X		5.389
SE 27 X		5.360
NE 26 X		5.383
SE 25 X		5.368
SW 24 X		5.406
SE 23 X		5.385
SE 22 X		5.404
NW 21 X		5.394
SE 20 X		5.390
SE 19 X		5.395
SE 18 X		5.409

ROOF SLAB ELEVS. (CONT.)

SAME PARTY

MAY 6, 1957

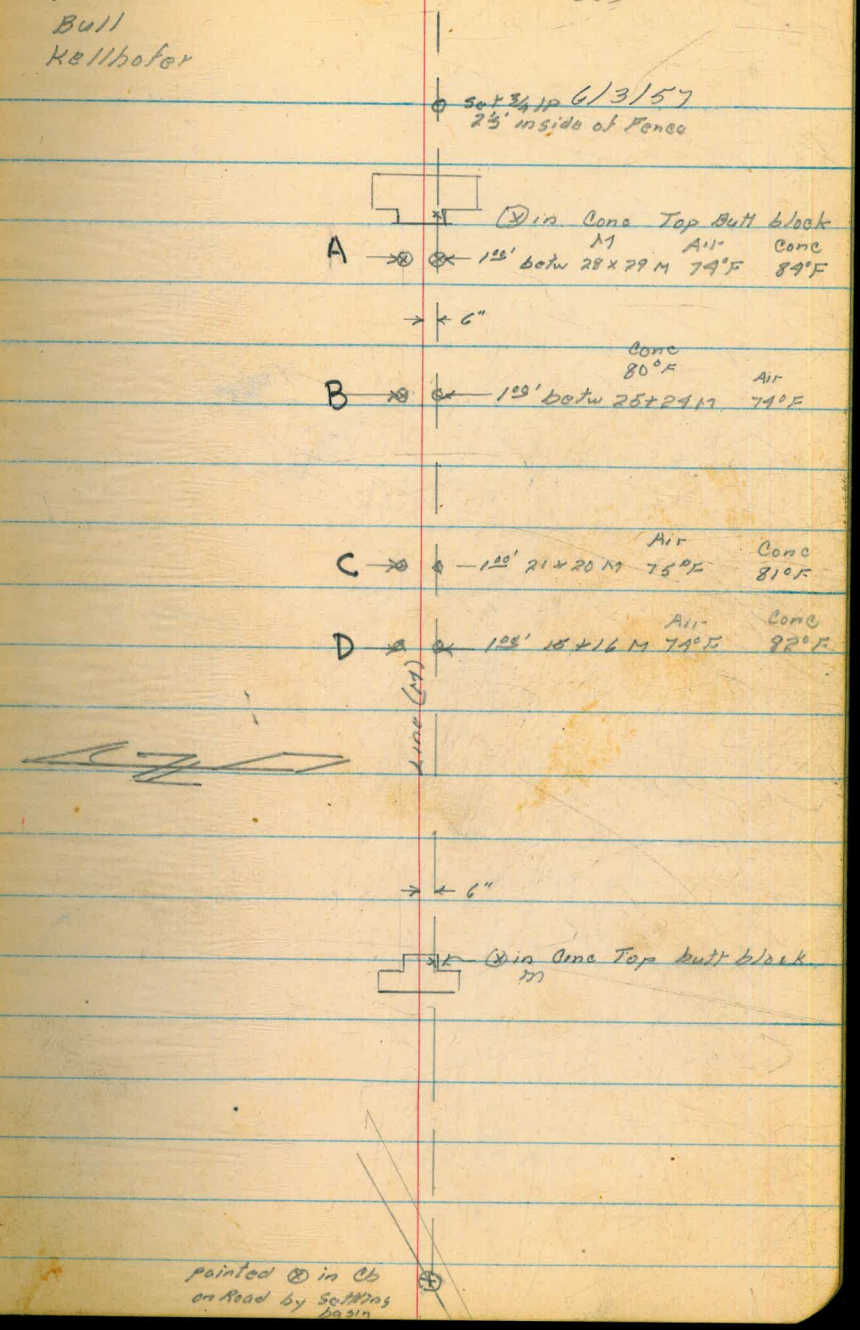
	537.606	
SW 17X	5.409	
SE 16X	5.381	
SE 15X	5.450	
SE 15W	5.305	
SW 16W	5.314	
NW 17W	5.314	
NW 18W	5.298	
NW 19W	5.307	
NW 20W	5.307	
NW 21W	5.301	
NE 22W	5.307	
NW 23W	5.295	
NW 24W	5.294	
NW 25W	5.296	
NW 26W	5.296	
NW 27W	5.328	
NW 28W	5.320	
CHK. BM.	6.088	531.518 = 531.523

R.P.s To Measure Expansion of Roof Slab on Line M

75°F

West
Williams
Bull
Kellhofer

Foggy & Warm



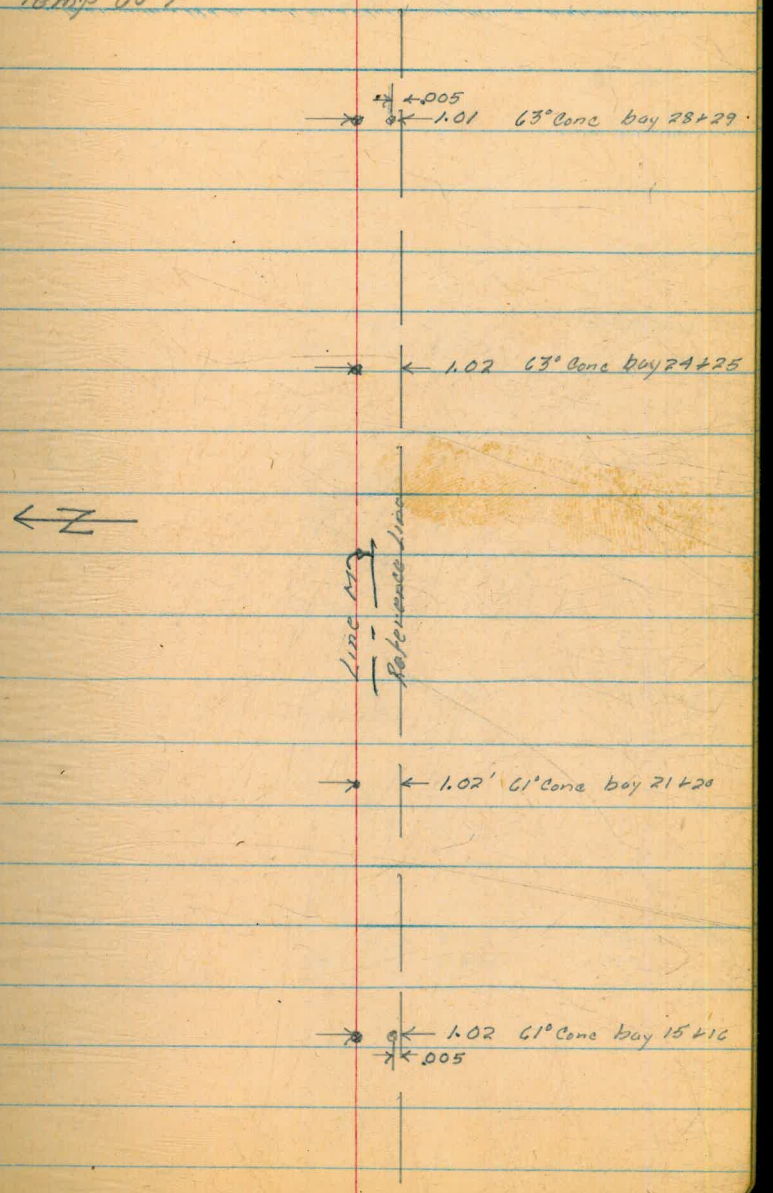
Check on Roof Expansion
Line M

West
Williams
Kellhofer

7:30 to 7:45 AM
Cloudy + Cool

Air Temp 60° F

6/7/57

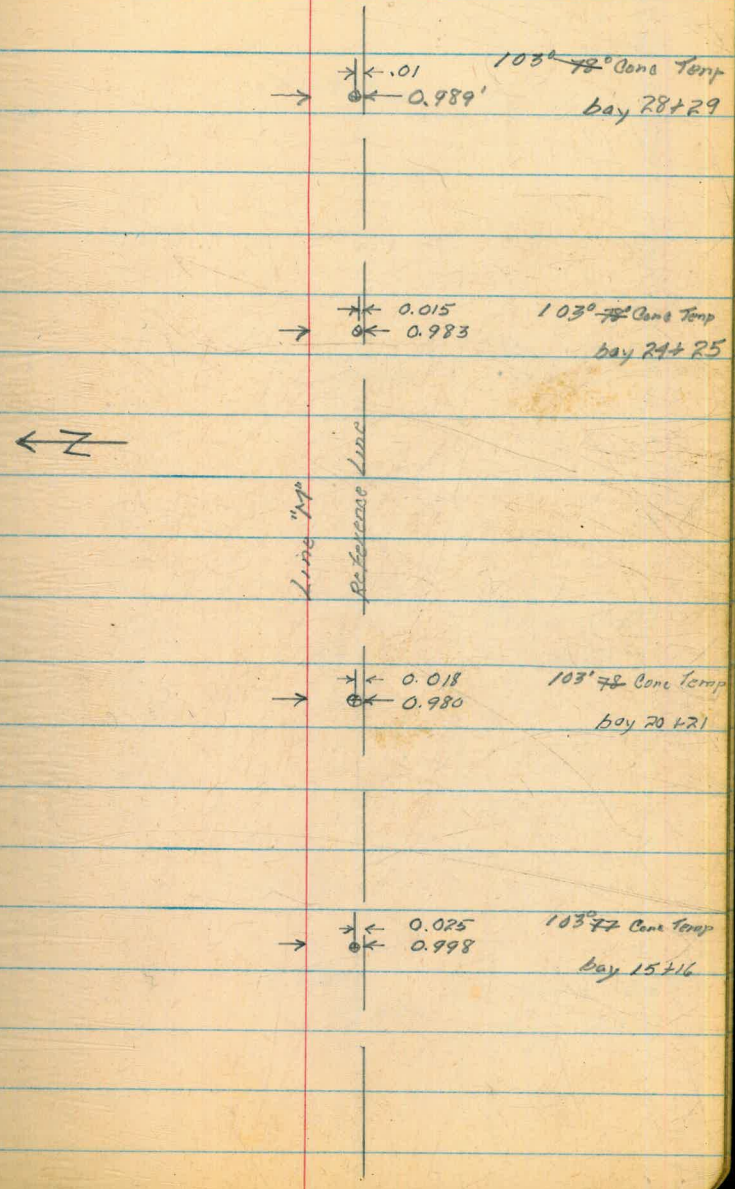


Check on Roof Expansion
Line M

2:30 to 2:45 PM 24

Clear + Warm

6/7/57



CHECK ON ROOF EXPANSION
LINE M

WEST
WILLIAMS
KELLHOFER
BULL

25
CLEAR & HOT

JUNE 18, 1957

Conc 127°

→ 0.97 ← .005 bay 28+29

→ .96 ← .015 Conc 127° bay 24+25

Conc 125°

→ .95 ← bay 20+21

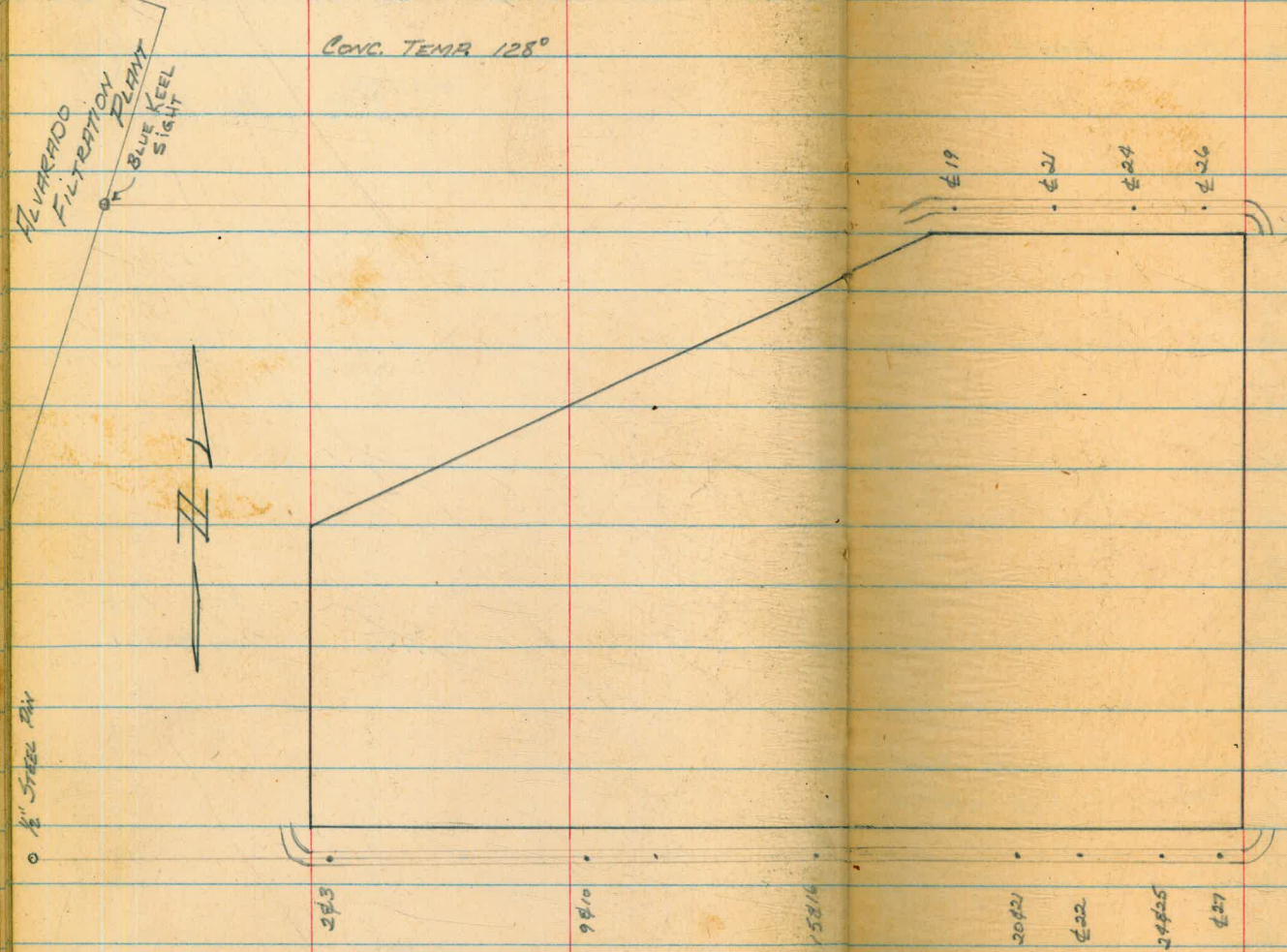
→ .963 ← .005 Conc 124° bay 15+16

CHECK FOR EXPANSION REFERENCE LINES ON NORTH AND SOUTH COPING WALLS.

WEST, WILLIAMS KELLHOFER

JUNE 20, 1957

CONC. TEMP. 128°



⊙ Set ½" I.P. Sept 13, 60 @ AW
at steel pin

REF. PIN DESTROYED OCT. 1957, SEE PG. 77, NC

SEE ABOVE CON

⊙ ½" steel pin

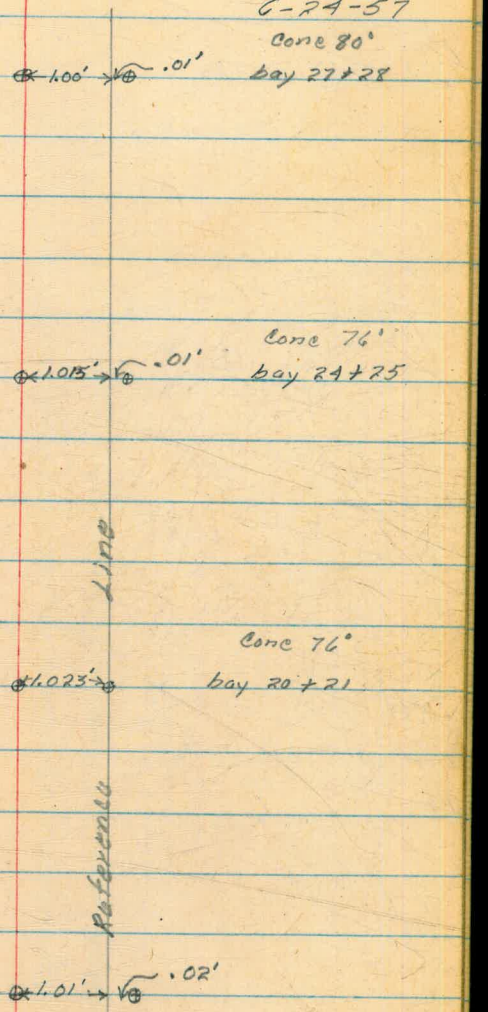
⊙ Set ½" I.P. Sept 13, 60 GAW

CHECK ON ROOF EXPANSION
LINE "M"

Could detect no movement on coping walls as run page 26

West
Williams
Kellhofer
Bull

8:30 to 9:00 AM
Clear- Warming
6-24-57



Check Roof Expansion Jt

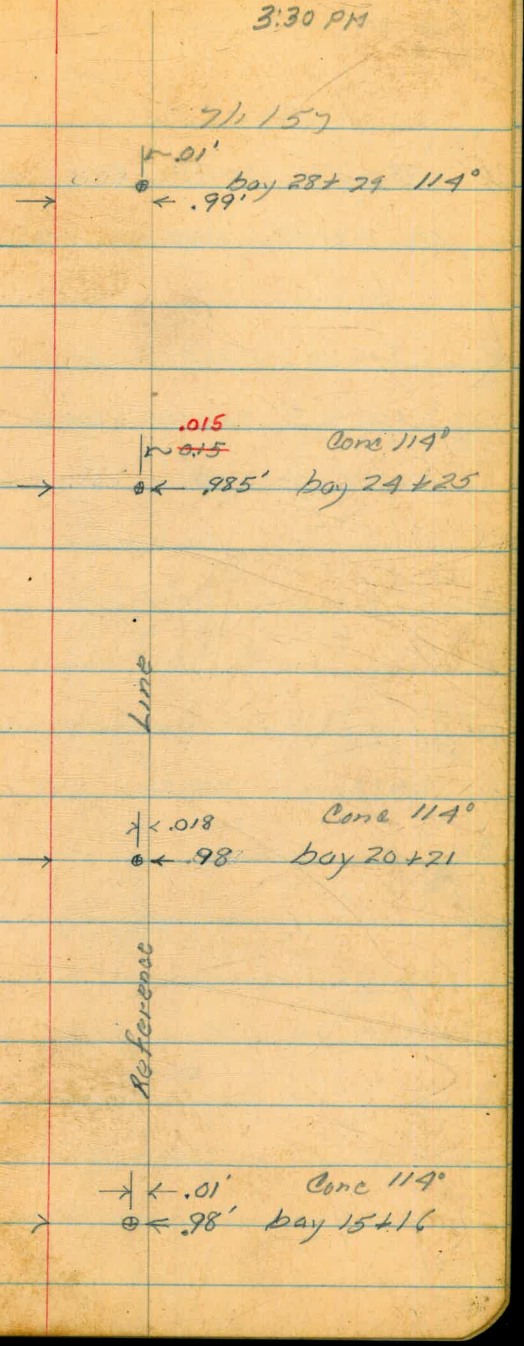
Could detect no movement on Sly coping wall. Cone Temp 108°

Could detect no movement on Sly Coping Wall Cone Temp 108°

West
Williams
Kellhofer

3:30 PM

7/15/57



Check on Roof Expansion E.T.

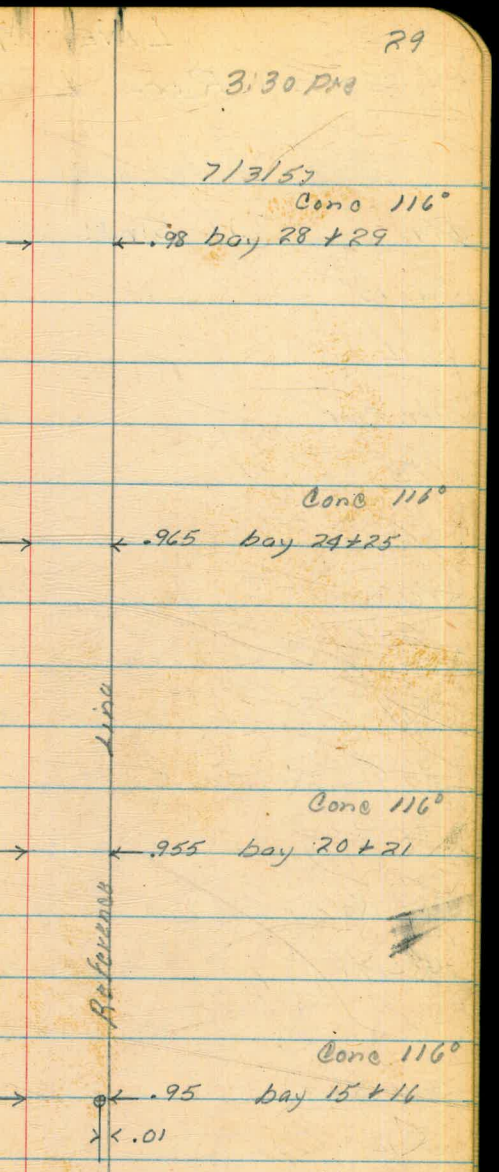
Could detect no movement
in north Coping Wall Conc Temp 116°

Could detect no movement
in sly coping wall Conc Temp 116°

West
Williams
Kellhofer

3:30 PM

7/3/57



LINE M

BOTTOM ROOF & JOISTS ELEV.

Sly Side Line M only

BM.	6.17	516.11	509.94
COL 15		+15.24	531.~~41~~ .35 a.R.
J #2		+16.22	532.33 ✓
BOTT. ROOF		+16.90	533.01 ✓
J #3		+16.22	532.33 ✓
J #4		+16.23	532.34 ✓
BOTT. ROOF		+16.91	533.02 ✓
J #5		+16.22	532.33 ✓
J #6		+16.19	532.30 ✓
J #7		+16.18	532.29 ✓
J #8		+16.19	532.30 ✓
BOTT. ROOF		+16.88	532.99 ✓
COL 16		+15.28	531.39 ✓
		+15.27	531.38 ✓
BOTT ROOF		+16.86	532.97 ✓
J #1		+16.17	532.28 ✓
J #2		+16.19	532.30 ✓
J #3		+16.22	532.33 ✓
J #4		+16.25	532.36 ✓
BOTT ROOF		+16.91	533.02 ✓

WEST
KELLHOFER
BULL

JULY 9, 1957

TBM. FLOOR OF RESERVOIR

ELY. BOTT. GIRDER

WLY BOTT. GIRDER

ELY. " "

WEST
KELLHOFER
BULL

July 9, 1957

	516.11		
J #5		+16.18	532.29 ✓
J #6		+16.20	532.31 ✓
J #7		+16.19	532.30 ✓
#8		+16.20	532.31 ✓
Bott. Roof		+16.88	532.99 ✓
Col 17		+15.28	530.39 ✓
		+15.29	531.40 ✓
Bott Roof		+16.84	532.95 ✓
#1 ✓		+16.17	532.28 ✓
#2 ✓		+16.20	532.31 ✓
#3 ✓		+16.27	532.33 ✓
#4 ✓		+16.23	532.34 ✓
Bott. Roof		+16.90	533.01 ✓
#5 ✓		+16.25	532.36 ✓
#6 ✓		+16.26	532.37 ✓
#7		+16.21	532.32 ✓
#8		+16.18	532.29 ✓
Bott Roof		+16.84	532.95 ✓
Col 18		15.20	531.31 ✓
		15.20	531.31 ✓

Wly. Bott. Girder
Ely. " "

Wly Bott Girder
Ely " "

Col #18 Cont	516.11		
J #1		+16.17	532.28 ✓
J #2		+16.18	532.29 ✓
J #3		+16.18	532.29 ✓
J #4		+16.18	532.29 ✓
BOTT ROOF		16.86	532.97 ✓
J #5		16.15	532.26 ✓
J #6		16.20	532.31 ✓
J #7		16.18	532.29 ✓
J #8		16.19	532.30 ✓
BOTT ROOF		16.89	533.00 ✓
6.17	516.11 ✓	6.17	509.94 ✓ = 509.94
COL #19		15.22	531.33 ✓
		15.23	531.34 ✓
J #1		16.21	532.32 ✓
BOTT ROOF		16.91	533.02 ✓
J #2		16.21	532.32 ✓
J #3		16.25	532.36 ✓
J #4		16.24	532.35 ✓
BOTT ROOF		16.92	533.03 ✓

BOTT W'ly GIRDER

BOTT E'ly "

West
Kellhofer
Bull

7/30/57

	516.11			
J #5		16.23	532.34 ✓	
J #6		16.23	532.34 ✓	
J #7		16.20	532.31 ✓	
J #8		16.18	532.29 ✓	
COL 20		15.25	531.36 ✓	Bott Wly Girder
		15.25	531.36 ✓	Bott Ely "
BOTT ROOF		16.84	532.95 ✓	
J #1		16.17	532.28 ✓	
J #2		16.20	532.31 ✓	
J #3		16.18	532.29 ✓	
J #4		16.19	532.30 ✓	
BOTT ROOF		16.88	532.99 ✓	
J #5		16.20	532.31 ✓	
J #6		16.20	532.31 ✓	
J #7		16.18	532.29 ✓	
J #8		16.16	532.27 ✓	
COL 21		15.23	531.34 ✓	Bott Wly Girder
has	Strut on Ely Side			Bott Ely "
BOTT ROOF		16.85	532.96 ✓	

	516.11		
J #1		16.20	532.31 ✓
J #2		16.17	532.28 ✓
J #3		16.22	532.33 ✓
J #4		16.26	532.37 ✓
BOTT ROOF		16.91	533.02 ✓
J #5		16.26	532.37 ✓
J #6		16.24	532.35 ✓
J #7		16.22	532.33 ✓
J #8		16.21	532.32 ✓
COL 72		15.24	531.35 ✓
		15.23	531.34 ✓
BOTT ROOF		16.87	532.98 ✓
J #1		16.21	532.32 ✓
J #2		16.21	532.32 ✓
J #3		16.21	532.32 ✓
J #4		16.22	532.33 ✓
BOTT ROOF		16.88	532.99 ✓
J #5		16.21	532.32 ✓
J #6		16.21	532.32 ✓

BOTT OF Wly Girder

BOTT Ely "

	516.11			
J #7		16.20	532.31 ✓	
J #8		16.21	532.32 ✓	
COL 23		15.22	531.33 ✓	BOTT Wly Girder
		15.22	531.33 ✓	" Ely "
BOTT ROOF		16.91	533.02 ✓	
J #1		16.21	532.32 ✓	
J #2		16.21	532.32 ✓	
J #3		16.20	532.31 ✓	
J #4		16.22	532.33 ✓	
BOTT ROOF		16.90	533.01 ✓	
J #5		16.19	532.31 .30 A.R	
J #6		16.21	532.32 ✓	
J #7		16.18	532.29 ✓	
J #8		16.16	532.27 ✓	
5.11	515.05 ✓	6.17	509.94 ✓ = 509.94	
TP 9.69	519.63 ✓	5.11	509.94 ✓	
COL 24		11.72	531.35 ✓	BOTT Wly Girder
		11.73	531.36 ✓	" Ely Girder
BOTT ROOF		13.33	532.96	

519.63

J #1	12.71	532.34 ✓
J #2	12.63	532.26 ✓
J #3	12.68	532.31 ✓
J #4	12.67	532.30 ✓
BOTT ROOF	13.35	532.98 ✓
J #5	12.67	532.30 ✓
J #6	12.67	532.30 ✓
J #7	12.69	532.32 ✓
J #8	12.65	532.28 ✓
COL 25	11.72	531.35 ✓
	11.71	531.34 ✓
BOTT ROOF	13.34	532.97 ✓
J #1	12.64	532.27 ✓
J #2	12.66	532.29 ✓
J #3	12.66	532.29 ✓
J #4	12.66	532.29 ✓
BOTT ROOF	13.33	532.96 ✓
J #5	12.65	532.28 ✓
J #6	12.61	532.24 ✓

BOTT W/y Girder
" E/y "

	519.63		
J #7	12.65	532.28	
J #8	12.65	532.28	
COL 26	11.72	531.35 ✓	BOTT Wly Girder
STRUT on Ely Side			
BOTT ROOF	13.32	532.95 ✓	
J #1	12.66	532.29 ✓	
J #2	12.68	532.31 ✓	
J #3	12.70	532.33 ✓	
J #4	12.69	532.32 ✓	
BOTT ROOF	13.38	533.01 ✓	
J #5	12.69	532.32 ✓	
J #6	12.64	532.27 ✓	
J #7	12.69	532.32 ✓	
J #8	12.70	532.33 ✓	
COL 27	11.76	531.39 ✓	BOTT Wly Girder
	11.75	531.38 ✓	" Ely Girder
BOTT ROOF	13.32	532.95 ✓	
J #1	12.65	532.28 ✓	
J #2	12.62	532.25 ✓	
J #3	12.62	532.25 ✓	

	519.63		
J # A		12.58	532.21 ~~.22~~
BOTT ROOF		13.26	532.89 ✓
J # 5		12.64	532.27 ✓
TP 12.39	529.69 ✓	2.33	517.30 ✓
J # 6		2.53	532.22 ✓
J # 7		2.50	532.19 ✓
J # 8		2.50	532.19 ✓
COL 28		1.50	531.19 ✓
		1.54	531.23 ✓
BOTT ROOF		3.18	532.87 ✓
J # 1		2.51	532.20 ✓
J # 2		2.50	532.19 ✓
J # 3		2.51	532.20 ✓
J # 4		2.52	532.21 ✓
BOTT ROOF		3.19	532.88 ✓
J # 5		2.52	532.21 ✓
J # 6		2.51	532.20 ✓
J # 7		2.51	532.20 ✓
J # 8		2.52	532.21 ✓
BOTT ROOF		3.18	532.87 ✓

BOTT VV/y Girder
" E/y Girder

ELEV TOP OF ROOF SLAB

LINE M Sly Side
Bay 15 to 29

529.69

1.20	518.50	12.39	517.30
		8.56	509.94 =

509.94

6.81	538.33		531.523
Col 15		5.06	533.27
℄ 15 + 16		5.09	533.24
Wly 16		5.10	533.23
Ely 16		5.10	533.23
℄ 16 + 17		5.09	533.24
Wly 17		5.09	533.24
Ely 17		5.10	533.23
℄ 17 + 18		5.11	533.22
Wly 18		5.11	533.22
Ely 18		5.11	533.22
℄ 18 + 19		5.12	533.21
Wly 19		5.10	533.23
Ely 19		5.10	533.23
℄ 19 + 20		5.09	533.24

518.50
509.94
8.56

NE Cone Mon

26
22
24
24
22
25
24
21
27
27
24
23
23
21

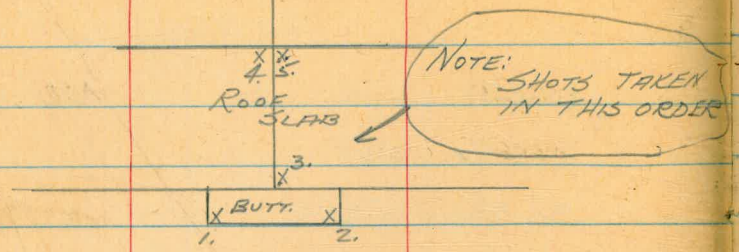
	538.33	
W1y 20	5.09	533.24 ✓
E1y 20	5.08	533.25 ✓
℄ 20-21	5.10	533.23 ✓
W1y 21	5.11	533.22 ✓
E1y 21	5.13	533.20 ✓
℄ 21-22	5.12	533.21 ✓
W1y 22	5.06	533.27 ✓
E1y 22	5.07	533.26 ✓
℄ 22-23	5.09	533.24 ✓
W1y 23	5.08	533.25 ✓
E1y 23	5.06	533.27 ✓
℄ 23-24	5.11	533.22 ✓
W1y 24	5.09	533.24 ✓
E1y 24	5.10	533.23 ✓
℄ 24+25	5.10	533.23 ✓
W1y 25	5.11	533.22 ✓
E1y 25	5.12	533.21 ✓
℄ 25-26	5.14	533.19 ✓
W1y 26	5.13	533.20 ✓
E1y 26	5.14	533.19 ✓

	538.33		
Q 26-27		5.14	533.19 ✓
W.L. 27		5.10	533.23 ✓
E.L. 27		5.11	533.22 ✓
Q 27-28		5.18	533.15 ✓
W.L. 28		5.23	533.10 ✓
E.L. 28		5.22	533.11 ✓
Q 28-29		5.25	533.08 ✓
29 End of Roof		5.23	533.10 ✓
		6.81	531.52 ✓ = 531.52

CHECK ELEVS.

EAST COPING WALL AND ROOF

BUTT A THRU. Z



NOTE: SHOTS TAKEN IN THIS ORDER

B.M.	12937 Plan	534.259		521.322
BUTT. A 1)	31.62		2.685	31.574 ✓
2)			2.643	31.616 ✓
3)	31.95		2.259	32.000 ✓
4)			2.253	32.006
5)			2.240	32.019 ✓
BUTT. B 1)	31.73		2.494	31.765
2)			2.493	31766
3)	32.06		2.133	32.126
4)			2.102	32.157
5)			2.105	32.154
BUTT C 1)	31.82		2.414	31.845
2)			2.400	31859
3)	32.15		2.049	32.210
4)			2.030	32.229
5)			2.035	32.224

WILLIAMS X
KELLHOFER
SPINAZZOLA ✓

7:30 A.M. PARTLY CLOUDY

AUGUST 2, 1957

→ CIRCLE OF YELLOW PAINT ON EACH STA. FOLLOWING THIS PATTERN

B.M. S.E. COR. RES.

El. E. Coping Wall And Roof Cont.

	Plan	Hi 534.259		
Butt D 1)	31.91		2328	31.931
2)			2320	31.939
3)	32.24		1.940	32.319
4)			2.004	32.255
5)			1.991	32.268
Butt E 1)	32.00		2.260	31.999
2)			2251	32.008
3)	32.33		1866	32.393
4)			1.905	32.354
5)			1.927	32.332
Butt F 1)	32.09		2.218	32.041
2)			2.212	32.047
3)	32.42		1.867	32.392
4)			1.802	32.457
5)			1.808	32.451
Butt G 1)	32.19		2.108	32.151
2)			2.099	32.160
3)	32.52		1.737	32.522
4)			1.723	32.536
5)			1.698	32.561

Same Party

August 9, 1957

		Hi 534.259		
Butt H 1)	32.28		2.803	32.256
2)			2.018	32.241
3)	32.61		1.658	32.601
4)			1.588	32.671
5)			1.591	32.668
Butt I ①	32.37		1.915	32.344
2)			1.922	32.337
3)	32.70		1.561	32.698
4)			1.519	32.740
5)			1.525	32.734
T.P.	2.303	535.042	1.520	532.739
Butt J ①	32.46		2.605	32.437
2)			2.610	32.432
3)	32.79		2.250	32.792
4)			2.206	32.836
5)			2.200	32.842
Butt K ①	32.55		2.498	32.544
2)			2.487	32.555
3)	32.88		2.136	32.906
4)			2.161	32.881
5)			2.162	32.880

El. E. Coping Wall And Roof Cont

Sunny 9:00 A.M. 8/9/57

	Plan	HI 535.042	
Butt L ①	32.64	2.412	32,630
2)		2.408	32,634
3)	32.97	2.070	32,972
4)		1.924	33,118
5)		1.935	33,107
Butt M ①	32.74	2.297	32,745
2)		2.288	32,754
3)	33.07	1.894	33,148
4)		1.922	33,120
5)		1.922	33,120
Butt N ①	32.74	2.298	32,744
2)		2.289	32,753
3)	33.07	1.939	33,103
4)		1.893	33,149
5)		1.894	33,148
Butt O ①	32.64	2.418	32,624
2)		2.414	32,628
3)	32.97	2.057	32,985
4)		2.033	33,009
5)		2.052	32,990

Same Party

	Plan	HI 535.042	
T.P.	2.689	535.204	2.527 532.515
Butt P ①	32.55	2.668	32,536
2)		2.660	32,544
3)	32.88	2.310	32,894
4)		2.231	32,973
5)		2.221	32,983
Butt Q ①	32.46	2.739	32,465
2)		2.731	32,473
3)	32.79	2.370	32,834
4)		2.320	32,884
5)		2.334	32,870
Butt R ①	32.37	2.840	32,364
2)		2.824	32,380
3)	32.70	2.467	32,737
4)		2.467	32,737
5)		2.468	32,736
Butt S ①	32.28	2.930	32,274
2)		2.928	32,276
3)	32.61	2.583	32,621
4)		2.502	32,702
5)		2.493	32,711

El. E. Coping Wall And Roof Cont.

	Plan	Hi 535.204	
Butt T ①	32.19	2.984	32,220
2)		2.991	32,213
3)	32.52	2.646	32,558
4)		2.574	32,630
5)		2.593	32,611
Butt U ①	32.09	3.091	32 113
2)		3.083	32,121
3)	32.42	2.717	32,487
4)	32.47	2.711	32,493
5)		2.709	32,495
Butt V ①	32.00	3.162	32,042
2)		3.163	32,041
3)	32.33	2.813	32,391
4)	32.38	2.761	32,443
5)		2.761	32,443
Butt W ①	31.91	3.260	31,944
2)		3.256	31,948
3)	32.24	2.905	32,299
4)		2.874	32,330
5)		1.884	32,320

Same Party

45.

Sunny 10:00 A.M.

8/9/57

	Plan	Hi 535.204	
Butt X ①	31.82	3.311	31,893
2)		3.311	31,893
3)	32.15	2.970	32,234
4)		2.935	32,269
5)		2.949	32255
Butt Y ①	31.73	3.416	31,788
2)		3.415	31,789
3)	32.06	3.033	32,171
4)	32.11	3.084	32,120
5)		3.090	32,114
Butt Z ①	31.62	3.490	31,714
2)		3.508	31,696
3)	31.95	3.129	32,075
4)		3.162	32,042
5)		3.169	32,035
CHECK TBM		3.677	531.527 = 531.523 N. E. Mon.

R.P.s To Measure Expansion
East Coping Wall Butt. B. Thru. Y

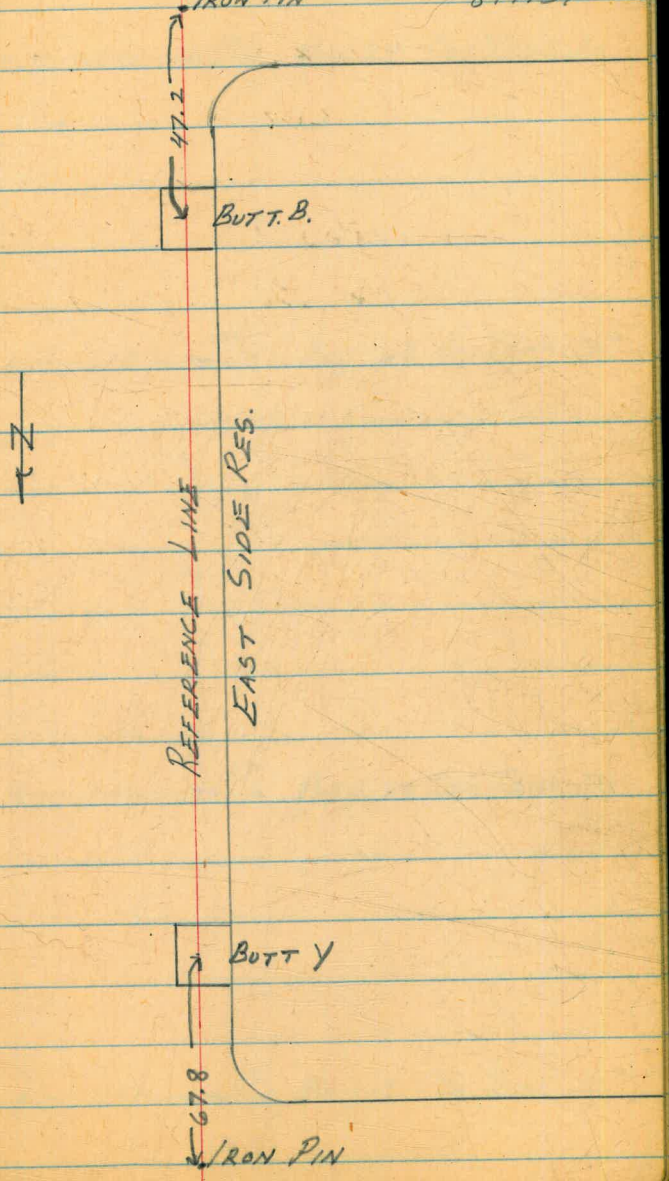
12:00 Noon Air Temp. 82° F
Con. Temp. 90° F.

Butt. B. Thru. Y Has + Circled With
Yellow Paint

T	01
S	07
R	01
N	02
L	02
K	02
J	025
H	03
G	02
F	03
E	03
D	03
C	035
B	04

Williams
Kellhofer
Spinazzola

8/9/57

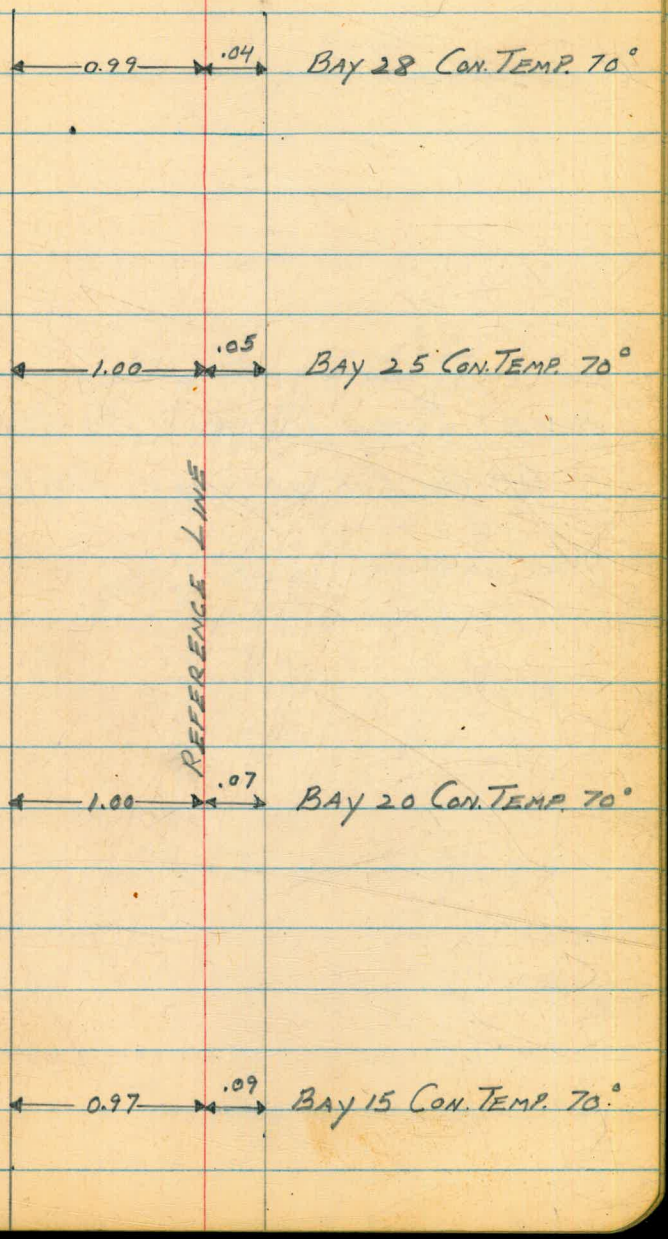


CHECK ON ROOF EXPANSION
LINE M.

WILLIAMS
KELLHOFER
SPINAZZOLA

8/8/57

47



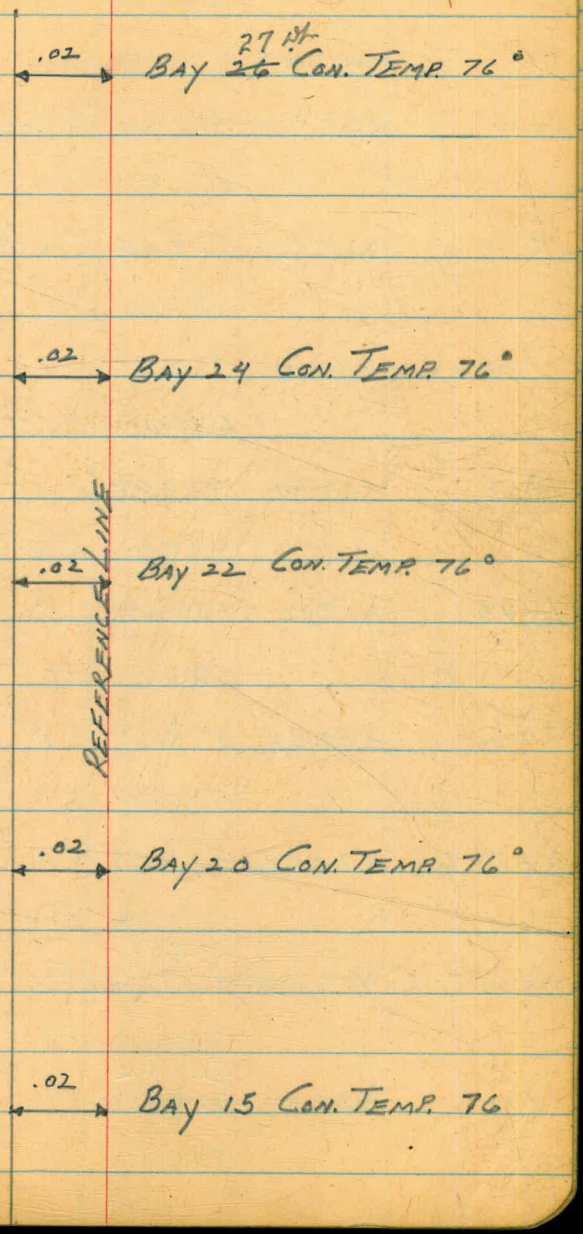
EXPANSION CHECK SO. COPING WALL

NOTE: COULD DETECT NO MOVEMENT ON NO. COPING WALL. CON. TEMP. 76°

WILLIAMS
KELLHOFER
SPINAZZOLA

8/8/57

48.



EARL THOMAS RES.

STKS. FOR A.C. ROAD AROUND RES.
(USED SELF READING ROD)

STA.	EL.	GR.	FILL OR CUT	
B.M.	531.52			
0+00	529.76	529.80	FO 4	TO GUTTER (3)
		530.00	FO 24	TO EDGE RD. (5)
0+50	529.76	529.66	CO 10	TO GUTTER (3)
		530.00	FO 24	TO EDGE RD. (5)
1+00	530.06	529.51	CO 49	TO GUTTER (3)
		530.00	CO 00	TO EDGE RD. (5)
1+50	529.40	529.37	CO 03	TO GUTTER (3)
		530.00	FO 60	TO EDGE RD. (5)
1+95	529.92	529.24	CO 68	TO GUTTER (3)
		530.00	FO 08	TO EDGE RD. (5)
2+50	530.34	529.08	C1 26	TO GUTTER (3)
		530.00	CO 34	TO EDGE RD. (5)
2+78.65	529.57	529.00	CO 57	TO GUTTER (3)
		530.00	FO 43	TO EDGE RD. (5)
0+50	529.59	529.71	FO 12	
		529.66	FO 07	TO GUTTER (3)
		530.00	FO 41	TO EDGE RD. (5)
1+00	530.04	529.62	CO 42	
		~~529.51~~	CO 53	TO GUTTER (3)
		530.00	CO 04	TO EDGE RD. (5)

WEST T
WILLIAMS
COURTNEY 9

(49)

10/22/57
SUNNY

CON. MON. N.E. COR. RES. F.B. 927-25

EAST SIDE RES. GOING NORTH

SEE PAGE 50 RE. CHANGES

EAST SIDE RES. GOING SO. AND W. TO SO. SIDE RES.

STKS. FOR A.C. ROAD CONT.

STA.	EL.	GR.	CUT OR FILL	
		529.53	18	CO 12
B.L. 1+50	529.65	~~529.37~~	~~CO~~	To Gutter ③
0+		530.00	FO 35	To Edge Rd. ⑤
B.C.		529.52	23	CO 07
1+54.35	529.59	~~529.36~~	~~CO~~	To Gutter ③
0+		530.00	FO 41	To Edge Rd. ⑤
		529.48	45	CO 25
1+80.45	529.73	~~529.28~~	~~CO~~	To Gutter ③
1+		530.00	FO 27	To Edge Rd. ⑤
		529.43	47	CO 25
2+06.55	529.68	~~529.21~~	~~CO~~	To Gutter ③
1+		530.00	FO 32	To Edge Rd. ⑤
E.C.		529.38	49	CO 24
2+32.65	529.62	529.13	CO	To Gutter ⑤
1+		530.00	FO 38	To Edge Rd. ⑤
2+50		529.08		To Gutter ⑤
2+		530.00		To Edge Rd. ⑤
		529.30	42	CO 12
2+81.89	529.42	~~529.00~~	~~CO~~	To Gutter ③
2+		530.00	FO 58	To Edge Rd. ⑤
T.P.	529.30			↔
		529.35	51	CO 25
0+ 2+50	529.60	~~529.09~~	~~CO~~	To Gutter ③
		530.00	FO 40	To Edge Rd. ⑤
		529.44	22	CO 01
1+ 2+00	529.45	~~529.23~~	~~CO~~	To Gutter ③
		530.00	FO 55	To Edge Rd. ⑤

SAME PARTY

50

81
AC
38

10/22/57

529.64

529.99

529.73

S. E. COR. RES. 529.68

S.E. RES. GOING WEST

NOTE: REVISED BECAUSE OF ↙

SO. ELY GUTTER INLET. SHOULD BE 528.83

S. ELY RES. GOING WEST TO 0+00

STKS. FOR A.C. RD. CONT.

STA.	EL.	GR.	CUT OR FILL	
1+50	529.54	529.53 ~~529.37~~	~~CO~~ 17	CO 01 To Gutter ③
		530.00	FO 46	To Edge Rd. ⑤
1+00	529.67	529.62 ~~529.51~~	~~CO~~ 16	CO 05 To Gutter ③
		530.00	FO 33	To Edge Rd. ⑤
0+50	529.67	529.71 ~~529.65~~	~~CO~~ 02	FO 04 To Gutter ③
		530.00	FO 33	To Edge Rd. ⑤
0+00	529.91	529.80	CO 11	To Gutter ③
		530.00	FO 09	To Edge Rd ⑤
T.P.	530.29=			
B.M.	530.31			End Curb
0+50	529.81	529.66	CO 15	To Gutter ③
		530.00	FO 19	To Edge Rd. ⑤
1+00	529.93	529.51	CO 42	To Gutter ③
		530.00	FO 07	To Edge Rd ⑤
+50	530.30	529.37	C 93	To Gutter ③
		530.00	CO 30	To Edge Rd ⑤
2+00	530.02	529.23	CO 79	To Gutter ③
		530.00	CO 02	To Edge Rd ⑤

SAME PARTY

51.

10/22/57

SEE PAGE 50 RE. CHANGES

F.B.

CHECK B.M. 530.29 = 530.31 END CURB 927

WEST ℄

WILLIAMS (So. SIDE RES. GOING WEST To S.W. COR. RES.) 10/23/57 SUNNY

COURTNEY ℄

STKS. FOR A.C. ROAD CONT.

SAME PARTY

10/13/57

STA	EL.	GR.	CUT OR FILL		
B.C. 2+12.35	530.02	529.19	C	0.83	To Gutter ③
		530.00	C	0.02	To Edge Rd ⑤
2+38.45	529.93	529.12	C	0.81	To Gutter ③
		530.00	F	0.07	To Edge Rd. ⑤
2+64.55	530.18	529.05	C	1.13	To Gutter ③
		530.00	C	0.18	To Edge Rd ⑤
E.C. 2+90.89	529.70	529.00	C	0.70	To Gutter ③
		530.00	F	0.30	To Edge Rd. ⑤
2+50	530.21	529.04	C	1.17	To Gutter ③
		530.00	C	0.21	To Edge Rd ⑤
2+00	530.26	529.19	C	1.07	To Gutter ③
		530.00	C	0.26	To Edge Rd. ⑤
1+50	530.03	529.34	C	0.69	To Gutter ③
		530.00	C	0.03	To Edge Rd. ⑤
1+00	530.11	529.49	C	0.62	To Gutter ③
		530.00	C	0.11	To Edge Rd. ⑤
0+50	530.22	529.64	C	0.58	To Gutter ③
		530.00	C	0.22	To Edge Rd. ⑤
0+00	529.98	529.80	C	0.18	To Gutter ③
		530.00	F	0.02	To Edge Rd. ⑤

S.W. Cor. Res. Going North To N.W. Cor. Res.

N.W. Cor. Res.

Check B.M. 530.31 = 530.31

STKS. FOR A.C. ROAD CONT.

SAME PARTY

10/23/57

STA.	EL.	GR.	CUT OR FILL	
B.M.	531.52			
0+00	530.22	529.80	CO 42	To Gutter (3)
		530.00	CO 22	To Edge Rd (5)
B.C. 0+34.79	530.43	529.72	CO 71	To Gutter (3)
		530.00	CO 43	To Edge Rd. (5)
0+55	530.15	529.68	CO 47	To Gutter (3)
		530.00	CO 15	To Edge Rd. (5)
0+75	530.25	529.63	CO 62	To Gutter (3)
		530.00	CO 25	To Edge Rd. (5)
0+83.92	530.02	529.62	CO 40	To Gutter (3)
		530.00	CO 02	To Edge Rd. (5)
1+00	529.92	529.58	CO 34	To Gutter (3)
		530.00	FO 08	To Edge Rd. (5)
+50	530.00	529.47	CO 53	To Gutter (3)
		530.00	CO 00	To Edge Rd. (5)
2+00	529.96	529.36	CO 60	To Gutter (3)
		530.00	FO 04	To Edge Rd. (5)
+50	530.11	529.25	CO 86	To Gutter (3)
		530.00	CO 11	To Edge Rd. (6)

N.E. Mon F.B 927-25

N. Side Res. 34.8 Wly of B.C. of Curve

Stks. For A.C. Road Cont.

Same Party

Windy In P.M.

10/23/57

Sta.	El.	Gr.	Cut or Fill		
B.C. 2+89.24	530.16	529.16	C	1.00	To Gutter ③
		530.00	C	0.16	To Edge Rd. ⑤
1/3 of 3+15.34	530.75	529.11	C	1.64	To Gutter ③
		530.00	C	0.75	To Edge Rd ⑤
2/3 of 3+41.44	530.27	529.05	C	1.22	To Gutter ③
		530.00	C	0.27	To Edge Rd. ⑤
0+15	530.13	529.77	C	0.46	To Gutter ③
		530.00	C	0.23	To Edge Rd ⑤
0+65	529.65	529.66	F	0.01	To Gutter ③
		530.00	F	0.35	To Edge Rd. ⑤
1+15	529.52	529.55	F	0.03	To Gutter ③
		530.00	F	0.48	To Edge Rd. ⑤
1+65	529.60	529.44	C	0.16	To Gutter ③
		530.00	F	0.40	To Edge Rd. ⑤
2+15	529.69	529.33	C	0.36	To Gutter ③
		530.00	F	0.31	To Edge Rd. ⑤
T.P. 2+25.60 B.C.	529.69 529.83	529.31	C	0.52	To Gutter ③
		530.00	F	0.17	To Edge Rd. ⑤

N. Side Res. Going Wly.

10/23/57

STA.	EL.	GR.	CUT OR FILL	
B.C. 2+60.60	529.66	529.23	CO 43	To Gutter ③
		530.00	FO 34	To Edge Rd. ⑤
3+25	530.49	529.08	C1 41	To Gutter ③
		530.00	CO 49	To Edge Rd. ⑤
3+68.50	530.02	528.98	C1 04	To Gutter ③
		530.00	CO 02	To Edge Rd. ⑤
CHECK B.M.				

INLET # 3

530.33 = 530.31 End Curb F.B. 927

EXPANSION CHECK ON M Line

ET Res

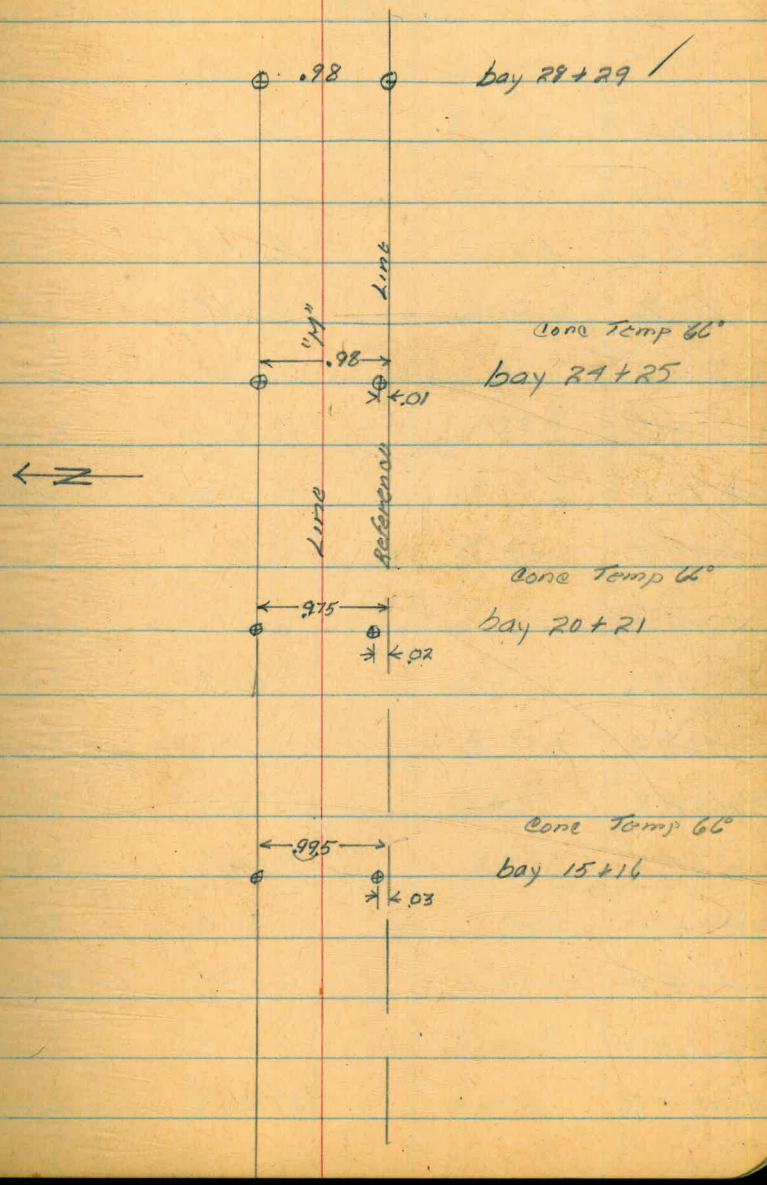
North Coping wall shows no movement

East Buttress Blocks show no movement

South Coping wall shows no movement

West
Williams
Courtney
O Brien

Cone Temp 64° in Shade 10-23-57



Earl Thomas Reservoir

Roof Slab Elevations

WEST
WILLIAMS
O'BRIEN
COURTNEY

537.683

Sunney & Warm
12/3/57

Sta.	+	Hi	−	El. Con. Mon. N.E. Cor. Res
B.M.	6.160	537.683		531.523
N.W17Z			5.663	
N.W18Z			5.592	
N.E19Z			5.638	
NW20Z			5.640	
NW21Z			5.625	
NW22Z			5.650	
NE23Z			5.654	
NE24Z			5.650	
NE25Z			5.638	
SE26Z			5.662	
NE27Z			5.625	
NW28Z			5.651	
SW28Y			5.568	
NW27Y			5.545	
NW26Y			5.570	
SW25Y			5.576	
NW24Y			5.578	
NW23Y			5.555	
NE22Y			5.590	
NW21Y			5.558	
NE20Y			5.553	
NE19Y			5.530	
NW18Y			5.522	
NE17Y			5.507	
NW16Y			5.488	
NE15Y			5.570	
SW13X			5.489	
SE14X			5.500	
S.W.15X			5.470	
SE16X			5.420	
SE 17X			5.451	
SE 18X			5.450	
SE19X			5.440	
SE20X			5.433	
NW21X			5.438	
SE 22X			5.450	
SE 23 X	Next page			

Roof Slab Elev's. Cont.

Sta.	+	Hi 537.683	−	El.
Check B.M	6.400	537.923	6.160	531.523=531.523
SE 23 X			5.678	
SW 24 X			5.690	
SE 25 X			5.653	
NE 26 X			5.670	
SE 27 X			5.647	
SW 28 X			5.670	
NW 28 W			5.601	
NE 27 W			5.605	
NW 26 W			5.581	
SE 25 W			5.578	
SE 24 W			5.574	
NE 23 W			5.574	
SW 22 W			5.584	
NW 21 W			5.593	
NE 20 W			5.607	
NW 19 W			5.593	
NE 18 W			5.580	
NW 17 W			5.595	
SW 16 W			5.594	

Same Party

Sta.	+	Hi 537.923	−	El. 12/3/57
SE 15 W			5.580	
NE 14 W			5.622	
NW 13 W			5.630	
NE 12 W			5.660	
NW 11 W			5.650	
SE 9 V			5.510	
NE 10 V			5.549	
SE 11 V			5.535	
NW 12 V			5.501	
NE 13 V			5.430	
NE 14 V			5.431	
NE 15 V			5.476	
NE 16 V			5.450	
NE 17 V			5.474	
SE 18 V			5.486	
NE 19 V			5.473	
SE 20 V			5.489	
SE 21 V			5.464	
NE 22 V			5.448	

Roof Slab Elev's Cont.

West
Williams
O Brien

12-4-57
Cool

Sta	+	Hi	−	El.
NW 23 V		537.923	5.479	
NE 24 V			5.454	
SE 25 V			5.462	
NW 26 V			5.454	
SE 27 V			5.441	
NE 28 V			5.490	
NW 28 U			5.432	
SW 27 U			5.370	
NW 26 U			5.367	
SW 25 U			5.388	
NW 24 U			5.368	
SE 23 U			5.377	
NW 22 U			5.340	
SW 21 U			5.370	
SE 20 U			5.348	
NW 19 U			5.402	
NW 18 U			5.374	
SW 17 U			5.417	
SE 16 U			5.380	
SE 15 U			5.401	
SW 14 U			5.330	
NW 13 U			5.363	
SE 12 U			5.324	
SE 11 U			5.328	
SE 10 U			5.342	
NW 9 U			5.362	
NW 8 U			5.355	
		T		
SW 6 T			5.261	
NW 7 T			5.275	
NE 8 T			5.230	
SW 9 T			5.218	
SE 10 T			5.213	
SE 11 T			5.190	
SE 12 T			5.188	
SE 13 T			5.160	
SE 14 T			5.187	
SW 15 T			5.209	
SW 16 T			5.280	

Roof Slab Elev's Cont

Sta.	+	Hi	−	El.
SE 17 T		537.923	5.260	
NE 18 T			5.269	
NW 19 T			5.263	
SW 20 T			5.260	
NW 21 T			5.266	
SW 22 T			5.253	
NE 23 T			5.237	
SE 24 T			5.258	
NE 25 T			5.270	
NW 26 T			5.260	
SW 27 T			5.260	
NW 28 T			5.302	
	7.000	538.523 "5"	6.400	531.523
			Line	
NE 28 S			5.815	
SE 27 S			5.775	
SW 26 S			5.793	
SE 25 S			5.767	
SE 24 S			5.790	
SE 23 S			5.794	

7.923
2.583
5.340

538.523
5.940
532.583

60.

Sta.	+	Hi	−	El
SE 22 S		538.523	5.800	
NE 21 S			5.802	
SE 20 S			5.795	
NE 19 S			5.801	
SE 18 S			5.765	
NE 17 S			5.790	
SE 16 S			5.791	
NW 15 S			5.732	
NW 14 S			5.753	
NW 13 S			5.743	
NE 12 S			5.721	
SE 11 S			5.681	
NE 10 S			5.763	
SW 9 S			5.733	
SE 8 S			5.750	
SE 7 S			5.793	
SW 6 S			5.770	
SE 5 S			5.805	
NW 4 S			5.800	

Roof Slab Elev's Cont.

Sta.	+ Hi	− El.
	538.523	
	"R"	Line
SW 2R		5.718
SW 3R		5.700
NW 4R		5.701
NW 5R		5.694
SW 6R		5.663
SE 7R		5.678
SE 8R		5.635
SE 9R		5.637
SE 10R		5.661
SE 11R		5.650
NW 12R		5.672
NE 13R		5.586
SE 14R		5.658
NE 15R		5.664
SE 16R		5.668
NW 17R		5.688
SE 18R		5.656
SE 19R		5.650
SW 20R	538.523	5.641
SW 21R		5.660
NE 22R		5.660
SE 23R		5.675
SW 24R		5.664
SW 25R		5.680
NW 26R		5.648
SE 27R		5.650
SW 28R		5.771
	Q	Line
NW 28Q		5.648
NE 27Q		5.600
NW 26Q		5.599
SW 25Q		5.600
NE 24Q		5.589
NE 23Q		5.589
SE 22Q		5.586
NW 21Q		5.560
SE 20Q		5.552
SE 19Q		5.571

STA	+	HI	−
		538.523	
SW 18Q			5.560
NW 17Q			5.559
NE 16Q			5.556
SE 15Q			5.521
SE 14Q			5.538
SW 13Q			5.514
SW 12Q			5.527
SE 11Q			5.500
SW 10Q			5.540
SE 9Q			5.534
SW 8Q			5.543
SE 7Q			5.575
SW 6Q			5.579
NW 5Q			5.600
SW 4Q			5.569
SW 3Q			5.625
SW 2Q			5.590

STA	+	HI	−
		"P" Line	
NE 2P		538.523	5.480
NW 3P			5.490
NW 4P			5.431
NW 5P			5.460
NW 6P			5.439
NE 7P			5.424
NW 8P			5.400
SW 9P			5.381
SW 10P			5.399
SW 11P			5.362
NW 12P			5.408
NW 13P			5.398
NE 14P			5.425
NE 15P			5.434
NW 16P			5.435
NE 17P			5.449
SE 18P			5.449
NW 19P			5.448
SE 20P			5.444

STA	+	Hi	−
		538.523	
NE 21P			5.460
NW 22P			5.476
NW 23P			5.480
SW 24P			5.449
SE 25P			5.501
NE 26P			5.480
NW 27P			5.500
SW 28P			5.549
		○	Line
SW 280			5.510
SE 270			5.410
SE 260			5.400
SE 250			5.400
SW 240			5.419
SE 230			5.400
NE 220			5.420
NW 210			5.410
NW 200			5.429
SW 190			5.408

STA	+	Hi	−
		538.523	
SW 180			5.400
SW 170			5.400
SW 160			5.395
SE 150			5.390
NE 140			5.373
NW 130			5.378
NW 120			5.378
NW 110			5.390
NW 100			5.370
NW 90			5.362
NW 80			5.337
SW 70			5.390
NE 60			5.401
SE 50			5.401
SE 40			5.374
SW 30			5.410
SE 20			5.430

STA	+	Hi	−
		538.523	
		"N" Line	
NW 2N			5.340
NW 3N			5.312
NW 4N			5.280
NW 5N			5.307
NW 6N			5.299
NW 7N			5.302
NW 8N			5.290
SW 9N			5.288
SE 10N			5.302
SW 11N			5.317
SW 12N			5.309
SW 13N			5.310
SE 14N			5.309
SE 15N			5.337
NE 16N			5.353
NW 17N			5.332
NE 18N			5.353
NW 19N			5.372

STA	+	Hi	−
		538.523	
NE 20N			5.301
NW 21N			5.342
NW 22N			5.343
NE 23N			5.348
NW 24N			5.310
NE 25N			5.348
NW 26N			5.361
NW 27N			5.360
NW 28N			5.369
		"M" Line	
NE 28M			5.413
NE 27M			5.302
SW 26M			5.312
NW 25M			5.291
SW 24M			5.290
SW 23M			5.272
NW 22M			5.268
NE 21M			5.322
NW 20M			5.274

STA	+	Hi	−
		538.523	
NE 19M			5.290
SE 18M			5.308
NW 17M			5.294
NW 16M			5.295
NW 15M			5.234
NW 14M			5.297
NW 13M			5.275
NW 12M			5.267
NW 11M			5.269
NW 10M			5.281
NW 9M			5.270
NW 8M			5.265
NW 7M			5.301
NW 6M			5.298
NW 5M			5.333
NW 4M			5.357
NW 3M			5.343
NW 2M			5.325

STA	+	Hi	−
		538.523	
NW 2L		"L" Zinc	5.442
NE 3L			5.423
NW 4L			5.445
NW 5L			5.447
NW 6L			5.420
NW 7L			5.448
NW 8L			5.418
NW 9L			5.410
NW 10L			5.420
NW 11L			5.410
NW 12L			5.441
NW 13L			5.445
NW 14L			5.425
NW 15L			5.443
SE 16L			5.475
NW 17L			5.500
NE 18L			5.508
SW 19L			5.462
NE 20L			5.460

STA	+	HI	−
		538.523	
NW 21L			5.453
SW 22L			5.511
NE 23L			5.481
NE 24L			5.432
SW 25L			5.425
SW 26L			5.437
SE 27L			5.427
SW 28L			5.400
		"K" Line	
NE 28K			5.642
NE 27K			5.569
NW 26K			5.541
NE 25K			5.596
SE 24K			5.594
SW 23K			5.587
NW 22K			5.571
NW 21K			5.598
NW 20K			5.610
NW 19K			5.605

STA	+	HI	−
		538.523	
NW 18K			5.597
NW 17K			5.592
NW 16K			5.581
NW 15K			5.530
NW 14K			5.524
NW 13K			5.514
NW 12K			5.517
NW 11K			5.513
NW 10K			5.510
NW 9K			5.502
NW 8K			5.503
NW 7K			5.524
NE 6K			5.513
NW 5K			5.524
NW 4K			5.510
NE 3K			5.500
NW 2K			5.519

STA	+	HT	−
		538.523	
		"J" Line	
NW 2J			5.630
NW 3J			5.589
NW 4J			5.600
NW 5J			5.599
NW 6J			5.600
NW 7J			5.623
NW 8J			5.592
NW 9J			5.612
NW 10J			5.608
NW 11J			5.602
NW 12J			5.585
NW 13J			5.601
NW 14J			5.627
NW 15J			5.586
NW 16J			5.652
NW 17J			5.640
NW 18J			5.641
NW 19J			5.631
NW 20J			5.662

STA	+	HI	−
		538.523	
NW 21J			5.665
NW 22J			5.646
NW 23J			5.638
NE 24J			5.627
NW 25J			5.659
NE 26J			5.661
SE 27J			5.647
NW 28J			5.688
NW 28I			5.785
NW 27I			5.744
NW 26I			5.761
NW 25I			5.761
NW 24I			5.752
NW 23I			5.777
NW 22I			5.734
NW 21I			5.770
NW 20I			5.764
NW 19I			5.752
NW 18I			5.742

STA	+	Hi	−
		538.523	
NW17i			5.730
NW 16i			5.762
NW 15i			5.721
NW 14i			5.728
NW 13i			5.715
NW 12i			5.714
NW 11i			5.716
NW 10i			5.727
NW 9i			5.697
NW 8i			5.701
NW 7i			5.693
NW 6i			5.741
NW 5i			5.729
NW 4i			5.714
NW 3i			5.710
NW 2i			5.750
		H-Line	
NW 2H			5.816
NW 3H			5.787

STA	+	Hi	−
		538.523	
NW 4H			5.790
NW 5H			5.821
NW 6H			5.800
NW 7H			5.801
NW 8H			5.761
NW 9H			5.732
NW 10H			5.777
NW 11H			5.742
NW 12H			5.730
NW 13H			5.760
NW 14H			5.743
NW 15H			5.794
NW 16H			5.815
NW 17H			5.824
NW 18H			5.849
NW 19H			5.829
NW 20H			5.829
NW 21H			5.843
NW 22H			5.832

STA	+	Hi	−
		538.523	
NW 23H			5.840
NW 24H			5.831
NW 25H			5.834
NW 26H			5.830
NW 27H			5.829
NW 28H			5.860
		G. Line	
NW 28G			5.971
NW 27G			5.970
NW 26G			5.960
NW 25G			5.949
NW 24G			5.952
NW 23G			5.967
NW 22G			5.949
NW 21G			5.943
NW 20G			5.917
NW 19G			5.942
NW 18G			5.923
NW 17G			5.934

STA	+	Hi	−
		538.523	
NW 16G			5.941
NW 15G			5.938
NW 14G			5.903
NW 13G			5.896
NW 12G			5.880
NW 11G			5.911
NW 10G			5.909
NW 9G			5.908
NW 8G			5.942
NW 7G			5.903
NW 6G			5.898
NW 5G			5.936
NW 4G			5.904
NW 3G			5.909
NW 2G			5.930
		F Line	
NW 2F			6.037
NW 3F			6.025
NW 4F			6.021

STA	+	Hi	−
		538.523	
NW 5F			6.061
NW 6F			6.004
NW 7F			6.007
NW 8F			6.007
NW 9F			6.030
NW 10F			6.022
NW 11F			6.009
NW 12F			6.001
NW 13F			6.010
NW 14F			6.001
NW 15F			6.028
NW 16F			6.051
NW 17F			6.050
NW 18F			6.049
NW 19F			6.050
NW 20F			6.039
NW 21F			6.031
NW 22F			6.067
NW 23F			6.094

STA	+	Hi	−
		538.523	
NW 24F			6.062
NW 25F			6.044
NW 26F			6.084
NW 27F			6.051
NW 28F			6.063
		E Line	
NW 28E			6.184
NW 27E			6.182
NW 26E			6.143
NW 25E			6.162
NW 24E			6.175
NW 23E			6.170
NW 22E			6.185
NW 21E			6.158
NW 20E			6.123
NW 19E			6.104
NW 18E			6.080
NW 17E			6.112
NW 16E			6.105

Sta	+	HI	−
		538.523	
NW/5E			6.078
NW/4E			6.099
NW/3E			6.074
NW/2E			6.089
NW/1E			6.070
NW/0E			6.089
NW9E			6.070
NW8E			6.069
NW 7E			6.079
NW 6E			6.100
NW5E			6.142
NW4E			6.132
NW3E			6.127
NW 2E			6.150
	D Line		
NW 2D			6.249
NW3D			6.230
NW 4D			6.220
NW 5D			6.205

Sta	+	HI	−
		538.523	
NW 6D		6.208	6.208
NW 7D			6.140
NW 8D			6.154
NW 9D			6.202
NW 10D			6.163
NW 11D			6.171
NW 12D			6.183
NW 13D			6.209
NW 14D			6.204
NW 15D			6.203
NW 16D			6.220
NW 17D			6.195
NW 18D			6.184
NW 19D			6.184
NW 20D			6.201
NW 21D			6.203
NW 22D			6.198
NW 23D			6.200
NW 24D			6.261

Sta	+	HI	−
		538.523	
NW 25D			6.208
NW 26D			6.209
NW 27D			6.221
NW 28D			6.250
		C Line	
NW 28C			6.310
NW 27C			6.332
NW 26C			6.300
NW 25C			6.311
NW 24C			6.321
NW 23C			6.310
NW 22C			6.307
NW 21C			6.308
NW 20C			6.280
NW 19C			6.292
NW 18C			6.324
NW 17C			6.315
NW 16C			6.303
NW 15C			6.261

Sta	+	HI	−
		538.523	
NW 14C			6.291
NW 13C			6.299
NW 12C			6.340
NW 11C			6.343
NW 10C			6.359
NW 9C			6.339
NW 8C			6.365
NW 7C			6.368
NW 6C			6.351
NW 5C			6.351
NW 4C			6.365
NW 3C			6.371
NW 2C			6.380
		Line B	
NW 2B			6.472
NW 3B			6.470
NW 4B			6.457
NW 5B			6.430
NW 6B			6.469

Sta	+	HI	−
		538.523	
NW 7B			6.420
NW 8B			6.451
NW 9B			6.450
NW 10B			6.453
NW 11B			6.430
NW 12B			6.438
NW 13B			6.398
NW 14B			6.381
NW 15B			6.340
NW 16B			6.359
NW 17B			6.369
NW 18B			6.380
NW 19B			6.371
NW 20B			6.395
NW 21B			6.372
NW 22B			6.338
NW 23B			6.362
NW 24B			6.349
NW 25B			6.364

Sta	+	HI	−
		538.523	
NW 26B			6.384
NW 27B			6.358
NW 28B			6.369
		Line "A"	
NW 28A			6.510
NW 27A			6.499
NW 26A			6.521
NW 25A			6.481
NW 24A			6.510
NW 23A			6.532
NW 22A			6.509
NW 21A			6.540
NW 20A			6.490
NW 19A			6.531
NW 18A			6.525
NW 17A			6.539
NW 16A			6.578
NW 15A			6.575
NW 14A			6.578

Roof Slab Elevs Cont

Weast
Williams
O Brien

Cool 60° F 74
Cloudy

12-4-57

Sta	+	H.I.	−	Elev
		538.523		
NW13A			6.629	
NW12A			6.603	
NW11A			6.609	
NW10A			6.600	
NW 9A			6.635	
NW 8A			6.564	
NW 7A			6.572	
NW 6A			6.579	
NW 5A			6.561	
NW 4A			6.573	
NW 3A			6.595	
NW 2A			6.562	
TBM	5.964	537.864	6.623	531.900
Check BM			6.349	531.515 = 531.523
BM k	6.349	537.872		531.523
Check TBM			5.963	531.909 =
Check BM			6.349	531.523 = 531.523

= TBM in N.W. Coping Wall 10' N. of 10V

Check Roof Expansion ET Res

West
Williams

Sept 16, 58 2 PM 88 Hot

75

Cone Temp 106°F Therm in Shade and in contact with cone

2+3 on ℄

9+10 .010

15+16 .065

Sly Coping Wall

20+21 .070

℄22 .080

Ref Line

24+25 .090

.030 .980

Line

Ref

.040 .975

Bay 20 +21

Line

.040 .960

Bay 24+25

.020 .970

28+29

.050 ℄19

Wly Coping Wall

.060 ℄21

Ref Line

.035 ℄ Bay 24

.040 bay 26

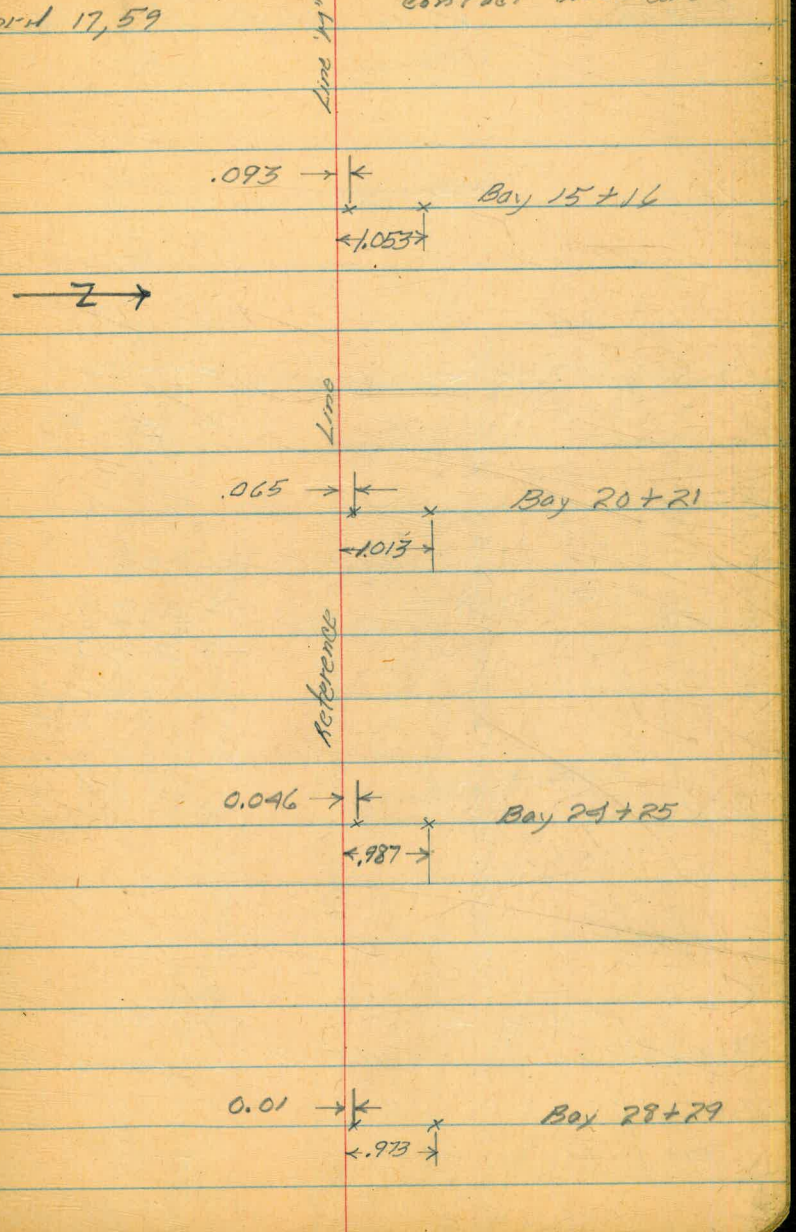
Check Roof Expansion ET Res

Line M

West
Williams
Henke

April 17, 59

Cone Temp 67°F
Therm in shade + in contact with Cone



CHECK ROOF EXPANSION EARL

(95° ON CONC. ROOF IN SHADE)

(WATER ELEV. 521.53)

BAY 2 & 3

9 & 10 → ← 0.006

15 & 16 0.041 → ← 15 & 16 → ← 0.050

→ ← 0.995

20 & 21 0.062 → ← 20 & 21 → ← 0.042

→ ← 0.976

22 ℄ 0.065 →

24 & 25 0.088 → ← 24 & 25 → ← 0.040

→ ← 0.960

28 & 29 → ← 0.013

→ ← 0.960

REF. LINE SOUTH COPING WALL

REF. LINE "M" LINE

THOMAS RESERVOIR

SHOREY
KEMP
PULLEN
HECHT

OCT. 14, 1959
P.M. WARM & BREEZY

77

BAY ℄ 18 → ← 0.042

BAY ℄ 19 → ← 0.050

℄ 21 → ← 0.050

℄ 24 → ← 0.013

℄ 26

REF. LINE NORTH COPING WALL

NOTE: SET TRANSIT ON REF. PT. ℄ BAY 26 SIGHTED PT. ON SETTLING BASIN. USED THIS AS REF. LINE. HUB EAST OF RESERVOIR DESTROYED

CHECK ROOF EXPANSION EARL

THOMAS RESERVOIR

(45° ON CONC. ROOF IN SHADE - WATER ELEV. 520.20)

(78) 1/15/60

A.M. - COLD & CLEAR

SHOREY
KEMP
PULLEN
O'BRIEN

BAYS

2 & 3

9 & 10 .008

WALL &

15 & 16 .057

15 & 16 .036

1.014

COPING

20 & 21 .078

20 & 21 .040

1.011

50'

22 & .070

REF. LINE

REF. "M" LINE

24 & 25 .034

24 & 25 .022

.981

28 & 29 .012

.988

BAYS

& 18 .034

& 19 .035

SEE PAGE 77 FOR REF. LINE

WALL &

& 21 .038

COPING

& 24 .009

NOR.

& 26

REF. LINE

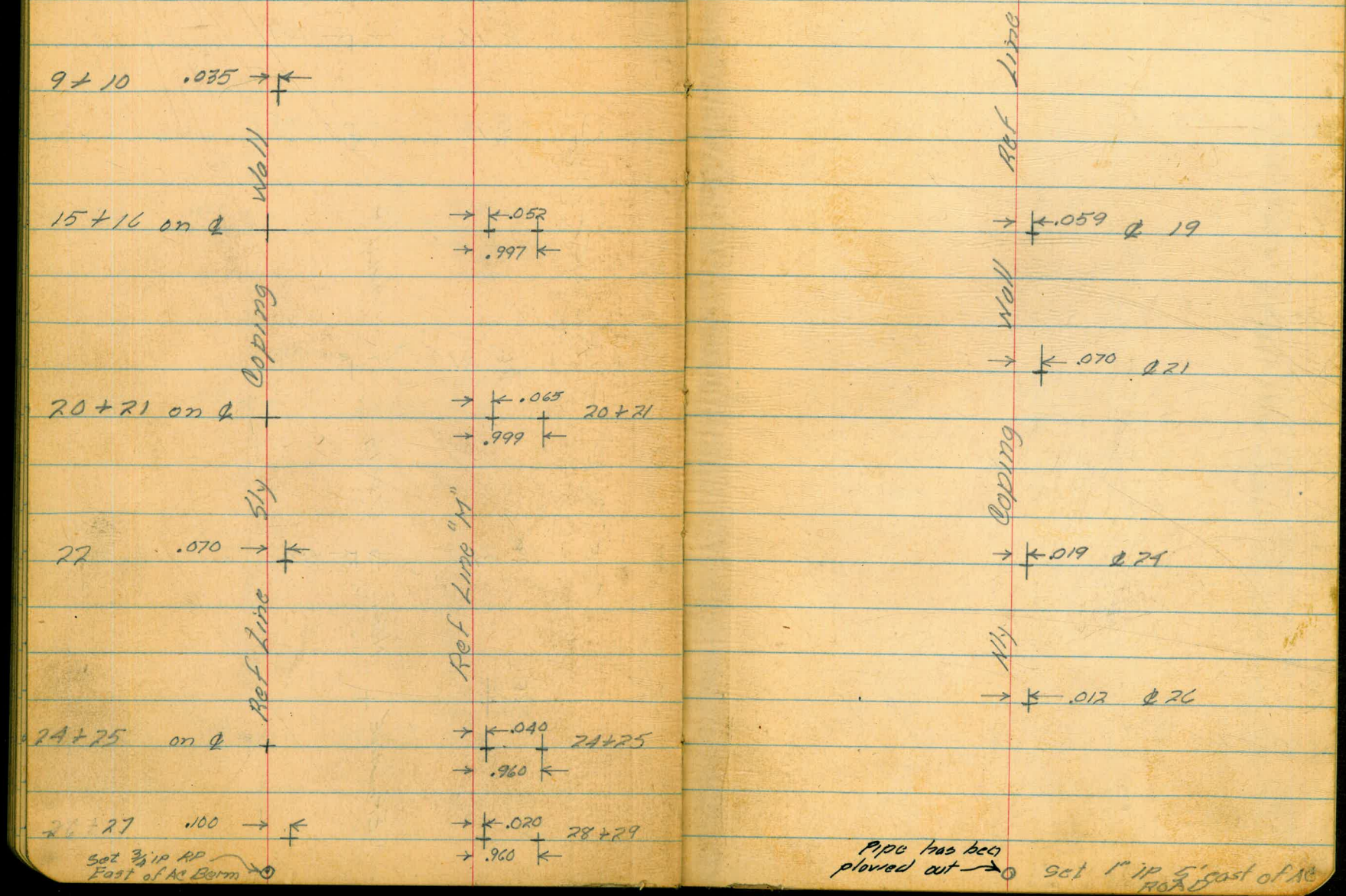
CHECK ROOF EXPANSION

BAYS ↓ EARL THOMAS RES

Cone Temp 110° In Shade Hot

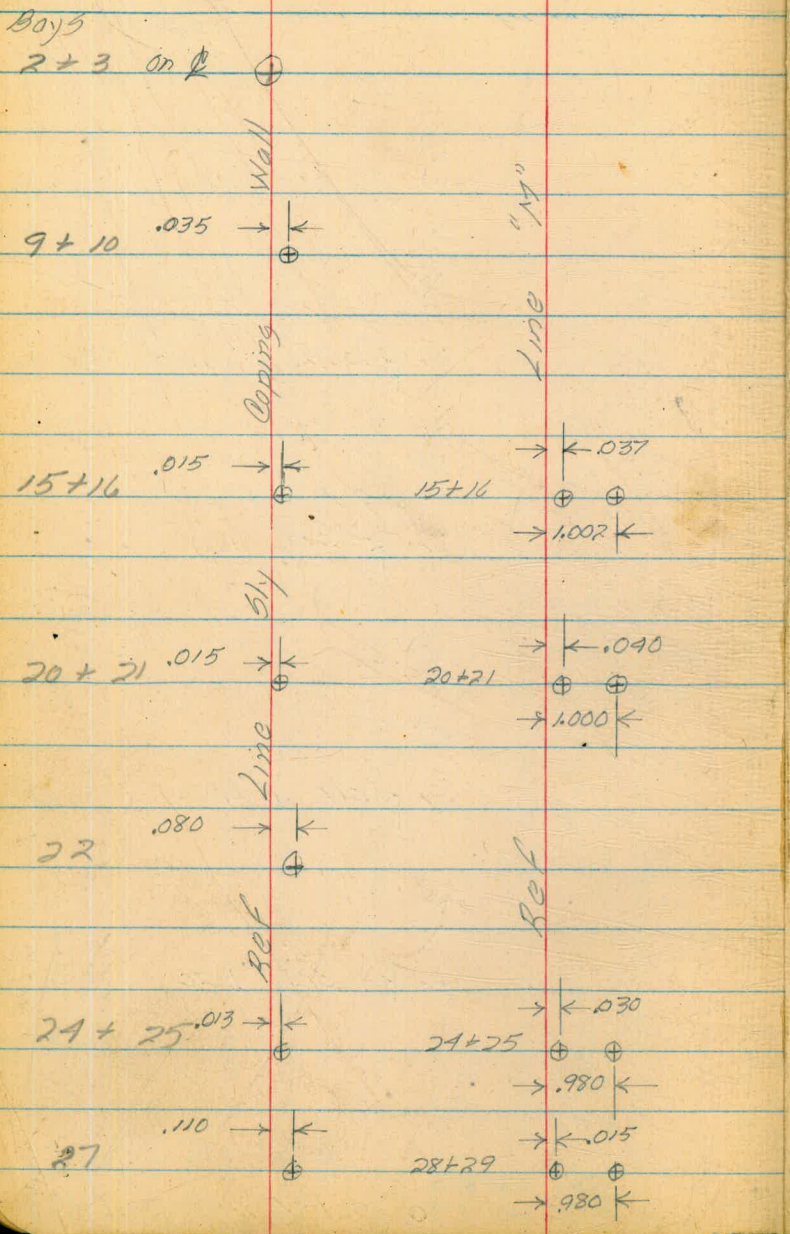
1 PM Sept 13, 60
West
Williams
Nash

PLOTTED
C.A.N. 9-29-60

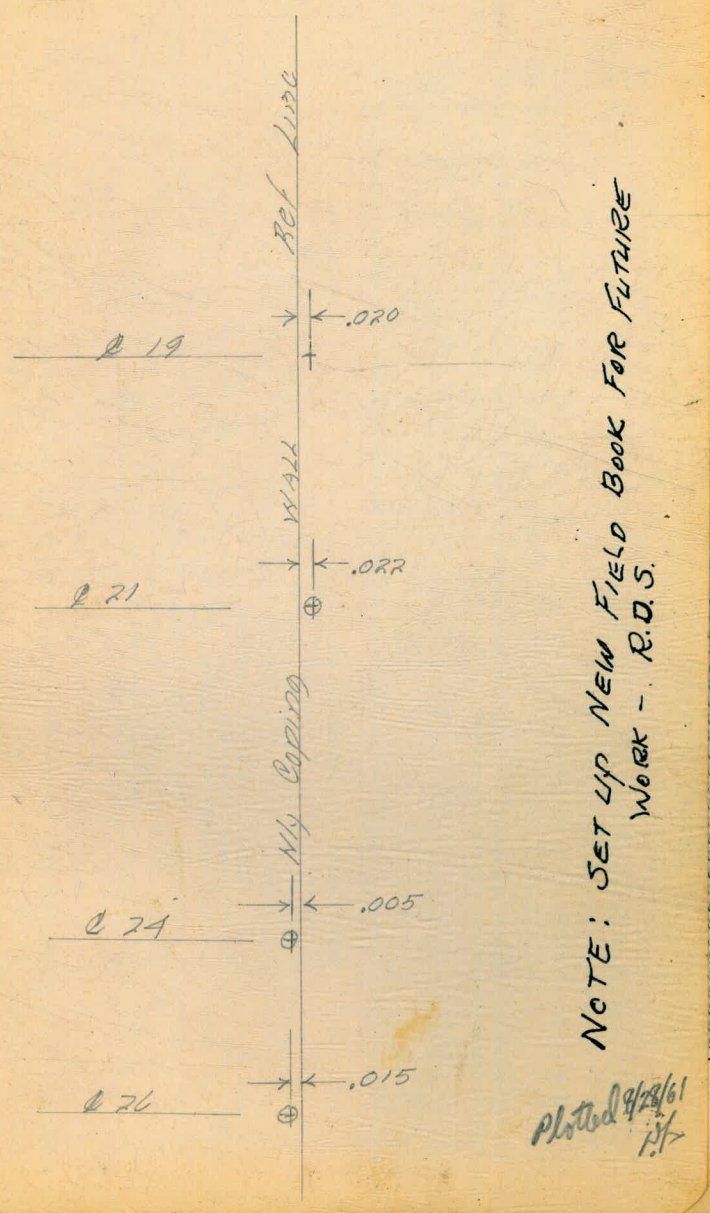


CHECK ROOF EXPANSION

EARL THOMAS RES



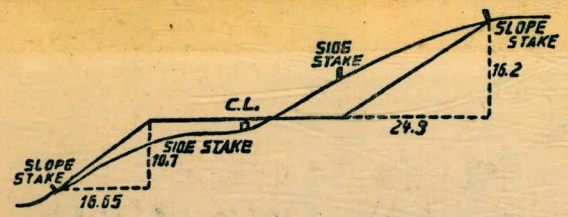
West Cono Temp 8:30 AM
Williams 59°F March 3, 61
Allen Cool + Cloudy



NOTE: SET UP NEW FIELD BOOK FOR FUTURE WORK - R.D.S.

Plotted 4/28/61 J.F.

Please Return to
City of San Diego Water Dept.
~~Room 903 Civic Center~~
Balboa Park
Laurel at Zoo Dr.



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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