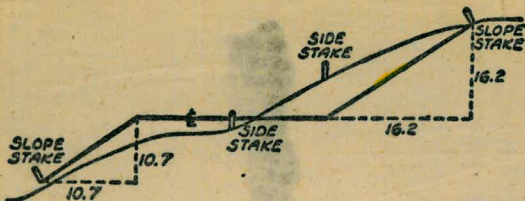


ALVARADO FILTRATION PLANT. # 741  
LEVEL BOOK.



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	.55	.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	.79	.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	.771	.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	.885	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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July 7<sup>th</sup> 49LEONARD  
BAKER, NOTES & T  
PAYNE, H.C.  
CARVER, R.C.SET SUB GRADE ELEV. FOR  
SETTLING BASIN FOOTINGS

	+	+		
B.M. SEWER M.H.	8.90	539.21	530.31	
	SUB GRADE	-	HUB. ELEV.	CUT
N 22.68 E 68.33	533.74	-4.64	534.57	C 0.83
E 140.05	533.50	-4.54	534.67	C 1.17
E 218.58	533.74	-4.64	534.57	C 0.83
N 38.33 E 59.92	533.74	-5.22	533.99	C 0.25
E 140.05	533.50	-4.56	534.65	C 1.15
E 197.95	533.74	-4.82	534.39	C 0.65
N 53.98 E 68.33	533.74	-4.86	534.35	C 0.61
E 140.05	533.50	-4.63	534.58	C 1.08
E 218.58	533.74	-4.62	534.59	C 0.85
CHECK B.M. -		-8.90	530.31	

July 7<sup>th</sup> 49LEONARD  
BAKER, NOTES & T  
PAYNE, H.C.  
CARVER, R.C.

2

CHECK ELEV. OF SUB GRADE AND FORMS  
FOOTINGS UNDER HEADHOUSE, ZEO-LITE & BASINS

	+	+		
B.M. SEWER M.H.	5.45	535.76	530.31	
	T.P. #1	4.31	528.01	-12.06
S12 E 47.01	SUB GRADE	522.67	522.41	O.K.
" E 45.5	FORM ELEV.	523.67	523.63	.04 Low
" E 48.5	FORM ELEV.	523.83	523.80	.03 Low
S19 E 47.01	SUB GRADE	522.67	522.34	O.K.
" E 45.5	FORM ELEV.	523.67	523.63	.04 Low
" E 48.5	FORM ELEV.	523.83	523.79	.04 Low
S 27.75 E 47.01	SUB GRADE	522.67	522.39	O.K.
" E 45.5	FORM ELEV.	523.67	523.64	.03 Low
" E 48.5	FORM ELEV.	523.83	523.83	O.K.
S 27.75 E 47.01	SUB GRADE	522.50	522.30	O.K.
" E 45.5	FORM ELEV.	523.50	523.47	.03 Low
" E 48.5	FORM ELEV.	523.63	523.61	.02 Low
S 44.0 E 47.01	SUB GRADE	522.50	522.26	O.K.
" E 45.5	FORM ELEV.	523.50	523.48	.02 Low
" E 48.5	FORM ELEV.	523.63	523.63	O.K.
S 69 E 47.01	SUB GRADE	522.50	522.35	O.K.
" E 45.5	FORM ELEV.	523.50	523.48	.02 Low

July 8<sup>th</sup> 49LEONARD  
BAKER, NOTES + X  
PAYNE, H.C.  
CARVER, P.C.SUB GRADE UNDER FOOTINGS  
& 4.83' SQUARES - MIXING & SETTLING BASINS.

	GRADE	T 528.01	ELEV.		BM SEWER M.H.	T 9.08	T 539.39		530.31
	FORM ELEV.					GRADE		ELEV.	CUTS
569 E 48.5	523.63	4.40	523.61	.02 Low					
594 E 47.01	SUB GRADE 522.50	5.79	523.22	O.K.	N.721 E 50.92	533.74	4.82	534.57	C-0.83
" E 45.5	FORM GRADE 523.50	4.52	523.49	.01 Low	" E 65.08	533.70	4.73	534.66	C-0.96
" E 48.5	FORM GRADE 523.63	4.37	523.64	.01 High	" 4.83 SQUARE	533.00	4.73	534.66	C-1.66
S 119.58 E 47.01	SUB GRADE 522.50	5.62	522.39	O.K.	" E 82.08	533.60	4.80	534.59	C-0.99
" E 45.5	FORM ELEV. 523.50	4.52	523.49	.01 Low	" 4.83 SQUARE	533.00	4.80	534.59	C-1.59
" E 48.5	FORM ELEV. 523.63	4.33	523.68	.05 High	" E 99.08	533.61	4.78	534.61	C-1.00
S 141.57 E 47.01	SUB GRADE 522.50	5.65	522.36	O.K.	" 4.83 SQUARE	533.00	4.78	534.61	C-1.61
" E 45.5	FORM ELEV. 523.50	4.52	523.49	.01 High	" E 116.08	533.57	4.79	534.60	C-1.03
" E 48.5	FORM ELEV. 523.63	4.37	523.64	.01 High	" 4.83 SQUARE	533.00	4.79	534.60	C-1.60
S 166.57 E 47.01	SUB GRADE 522.50	5.58	522.43	O.K.	" E 133.08	533.52	4.82	534.57	C-1.05
E 45.5	FORM ELEV. 523.50	4.52	523.49	.01 Low	" 4.83 SQUARE	533.00	4.82	534.57	C-1.57
E 48.5	FORM ELEV. 523.63	4.38	523.63	O.K.	" E 150.08	533.53	4.52	534.87	C-1.34
					" 4.83 SQUARE	533.00	4.52	534.87	C-1.87
					" E 167.08	533.57	4.76	534.63	C-1.06
					" 4.83 SQUARE	533.00	4.76	534.63	C-1.63
					" E 184.08	533.61	4.76	534.63	C-1.02
					" 4.83 SQUARE	533.00	4.76	534.63	C-1.63

July 11, 49

LEONARD  
BAKER - NOTES &  
PAYNE H.C.  
CARVER R.C.

## DITCH AT END OF 54" OVERFLOW TO ALV. PANY.

	GRADE	$\pi$ 539.39	ELEV.	CUTS					
N 721 E 201.08	533.66	4.72	534.67	C-1.01	B.M. + 1.20	537.59		536.39	ON DAM
" " 483' SQUARE	533.00	4.72	534.67	C-1.67	0+00	515.84	-10.70	526.89	C-11.1
" E 218.58	533.75	4.74	534.65	C-0.90	0+25	514.44	-11.03	526.56	C-12.2
CHECK B.M.		9.08	530.31		0+41.6	513.55	-12.26	525.33	C-11.7
					T.P.#1 + 1.99	527.32	-12.26	525.33	ON HUB
					0+50	513.05	-3.53	523.79	C-10.7
					0+75	511.65	-7.68	519.64	C-7.9
					1+00	510.26	-12.25	515.07	C-4.8
					T.P.#2 + 0.44	515.47	-12.29	515.03	
					1+25	508.86	-4.15	511.32	C-2.4
					1+32.22	508.45	-5.28	510.19	C-1.7
					1+50	507.46	-8.01	507.46	GRADE
					T.P.#3 + 12.32	527.72	-.07	515.40	
					T.P.#4 + 9.06	536.59	-0.19	527.53	
					B.M. on Dam		-0.22	536.37	536.39
CHECK B.M. on DAM.		-8.11	536.40	536.39					

July 8<sup>th</sup>, 49

SET GRADE FOR ELEC. CONDUIT N 96.08

	GRADE	$\pi$ 544.51	ELEV.	CUT					
B.M. Top Sewer M.H.	5.96		538.55						
N 96.08 W 104.67	541.00	3.78	540.73	F-0.27					
" W 146.85	539.69	3.97	540.54	C-0.85					
" W 189.00	538.38	4.97	539.54	C-1.16					
" W 231.15	537.07	5.49	539.02	C-1.95					
" W 273.25	535.75	6.68	537.83	C-2.08					
" W 289.64	532.71	6.88	537.63	C-4.92					
CHECK B.M. on DAM.		-8.11	536.40	536.39					

July 11, 49

LEONARD  
BAKER NOTES & T  
PAYNE H.C.  
CARRIER R.C.

WEST 18" DRAIN LINE E 144

B.M. SOWER M.H.	+ 8.80	539.11	530.31
	GRADE	ROD	ELEV. CUTS
N 12.58 E 144	532.05	-4.38	534.73 C-2.68
N 29.83 "	531.94	-4.68	534.43 C-2.49
N 52.08	531.80	-5.69	533.42 C-1.62
N 74.33	531.66	-5.62	533.49 C-1.83
CHECK B.M.	-8.80	530.31	= 530.31

July 18, 49

LEONARD  
BAKER NOTES  
PAYNE H.C.  
CARRIER R.C.

A" DRAIN N 92.67 To N 143.58  
W 353.62 To W 328.02

B.M. IN DAM	2.70	539.09	536.39
	GRADE	ROD	ELEV. CUTS
N 99.67 W 353.62	527.80	-3.22	535.87 C-8.07
0 + 17.5	527.62	-4.16	534.93 C-7.31
0 + 34	527.46	-4.69	534.40 C-6.94
N 143.58 W 328.02	527.27	-5.10	533.99 C-6.72
CHECK B.M.	-2.70	536.39	= 536.39

July 12, 49

LEONARD  
BAKER NOTES 8  
PAYNE H.C.  
CARRIER R.C.

FOOTING UNDER S. END OF SETTLING BASINS

B.M.	+ 3.91	534.22	530.31
	LOCATION (4' OFF)	GRADE	ROD ELEV. CUTS
S 156.67 E 57.08	527.09	-3.71	530.51 C-3.12
" E 72.08	527.03	-3.97	530.25 C-3.22
" E 97.08	526.93	-4.34	529.88 C-2.95
" E 122.08	526.83	-4.33	529.89 C-3.06
" E 147.08	526.73	-4.25	529.97 C-3.24
" E 172.08	526.63	-4.29	529.93 C-3.30
" E 197.08	526.53	-4.50	529.72 C-3.19
" E 215.08	526.46	-4.58	529.64 C-3.18
" E 222.08	526.46	-4.60	529.62 C-3.16
" E 240.08	526.53	-4.53	529.69 C-3.16
" E 265.08	526.63	-4.43	529.79 C-3.16
" E 290.08	526.73	-4.39	529.83 C-3.10
" E 315.08	526.83	-4.06	530.16 C-3.33
" E 340.08	526.93	-4.04	530.18 C-3.25
" E 365.08	527.03	-3.98	530.24 C-3.21
" E 390.08	527.13	-3.68	530.54 C-3.41
CHECK B.M.	-3.91	530.31	= 530.31



July 14, 49

LEONARD  
BAKER T & NOTES  
PAYNE H.C.  
CARVER H.C.

## DITCH FOR ELEC. CONDUIT N93.08

	GRADE	ROD	ELEV.	CUTS
B.M. ON DAM	+ 2.70	539.09	536.39	
N93.08 W294.64	532.75	-1.51	537.58	C-4.83
W314.16	531.68	-0.42	538.67	C-6.99
W333.68	530.61	-3.09	536.00	C-5.39
W353.20	529.55	-3.05	536.04	C-6.49
CHECK B.M.		-2.70	536.39 = 536.39	

## DITCH FOR ELEC. CONDUIT

	GRADE	ROD	ELEV.	CUTS
B.M. ON SEWER M.H.	+ 2.10	540.65	538.55	
N91.50 W300.06	533.75	-3.90	536.75	C-3.00
N94.37 W300.31	532.60	-4.45	536.20	C-3.60
N97.25 W349.66	531.45	-4.45	536.20	C-4.75

## ELEC. CONDUIT BOX

	GRADE	ROD	ELEV.	CUTS
5' OFF S				
N91.97 W349.66	529.00	-4.44	536.21	C-7.21
5' OFF E				
N91.97 W349.66	529.00	-4.33	536.32	C-7.32
5' OFF S				
N91.97 W355.99	529.00	-4.54	536.11	C-7.11
5' OFF W.				
N91.97 W355.99	529.00	-4.81	535.84	C-6.84
5' OFF N.				
N98.30 W355.99	529.00	-4.93	535.72	C-6.72

July 15, 49

LEONARD  
BAKER  
PAYNE  
CARVER

## CHECK SUB GRADE FLOOR EFFLUENT CONDUIT

	GRADE	ROD	ELEV.	CUTS	H.I.	ELEV.
B.M. ON SEWER M.H.	+ 5.92	536.23	530.31			
T.P. ON HUB	+ 3.94	527.32	-12.85	523.38		
Sub GRADES						
N-12 W181.67	521.58	-5.80	521.52	O.K.		
"						
N-0	521.58	-5.85	521.47	O.K.		
"						
S-12	521.58	-5.73	521.59	O.K.		
FORM TOP						
N-12	523.08	-4.29	523.03	.05 Low		
FORM TOP						
S-12	523.08	-4.25	523.07	.01 Low		
Sub GRADES						
N-12 W164.86	521.66	-5.64	521.68	O.K.		
"						
N-0	521.64	-5.67	521.65	O.K.		
"						
S-12	521.66	-5.74	521.58	O.K.		
FORM TOP						
N-12	523.16	-4.18	523.14	.02 Low		
FORM TOP						
S-12	523.16	-4.18	523.14	.02 Low		
Sub GRADES						
N-12 W148.05	521.74	-5.61	521.71	O.K.		
"						
N-0	521.74	-5.55	521.77	O.K.		
"						
S-12	521.74	-5.65	521.67	O.K.		
FORM TOP						
N-12	523.24	-4.13	523.19	.05 Low		
FORM TOP						
S-12	523.24	-4.07	523.25	.01 High		
Sub GRADES						
N-12 W131.24	521.82	-5.69	521.63	O.K.		
"						
N-0	521.82	-5.54	521.78	O.K.		

		H.I. 527.32		
	GRADE	ROD	ELEV.	CHECK
S-12 W 131.24	521.82	-5.51	521.61	O.K.
FORM TOP				
N-12	523.32	-4.02	523.30	.02 LOW
FORM TOP				
S-12	523.32	-4.01	523.31	.01 LOW
N-12 W 114.42	521.91	-5.44	521.88	O.K.
N-0	521.91	-5.43	521.89	O.K.
S-12	521.91	-5.38	521.94	O.K.
FORM TOP				
N-12	523.41	-3.91	523.41	O.K.
FORM TOP				
S-12	523.41	-3.92	523.40	.01 LOW
N-12 W 97.59	521.99	-5.36	521.96	O.K.
N-0	521.99	-5.38	521.94	O.K.
S-12	521.99	-5.34	521.98	O.K.
FORM TOP				
N-12	523.49	-3.84	523.48	.01 LOW
FORM TOP				
S-12	523.49	-3.85	523.47	.02 LOW
N-12 W 80.76	522.08	-5.30	522.02	O.K.
N-0	522.08	-5.25	522.07	O.K.
S-12	522.08	-5.23	522.09	O.K.
FORM TOP				
N-12	523.58	-3.80	523.52	.06 LOW
FORM TOP				
S-12	523.58	-3.78	523.54	.04 LOW

		H.I. 527.32		
	GRADE	ROD	ELEV.	CHECK
N-12 W 63.93	522.14	-5.22	522.10	O.K.
N-0	522.14	-5.16	522.16	O.K.
S-12	522.14	-5.16	522.16	O.K.
FORM TOP				
N-12	523.64	-3.68	523.64	.02 LOW
FORM TOP				
S-12	523.64	-3.71	523.61	.05 LOW
N-12 W 47.10	522.25	-5.10	522.22	O.K.
N-0	522.25	-5.10	522.22	O.K.
S-12	522.25	-5.10	522.22	O.K.
FORM TOP				
N-12	523.75	-3.60	523.72	.03 LOW
FORM TOP				
S-12	523.75	-3.59	523.73	.02 LOW
CHECK B.M.		-4.80	522.52	522.54
4" DRAIN N 98.33 W 350.75				
	GRADE	H.I. 540.65 ROD	ELEV.	CUT
0+00	529.70	-4.85	535.80	C-6.10
0+25	529.45	-5.85	534.80	C-5.35
0+50	529.20	-6.81	533.84	C-4.64
H.I. Taken From page 9				

July 15, 49

LEONARD  
BAKER  
PAYNE  
CARVERGRADE: TOP OF TILE DRAINS  
UNDER MIXING BASINS

B.M. or BYPASS END	H.I.	ROD	ELEV		H.I.	ROD	ELEV
B.M. on BYPASS END	+0.92	538.91	537.99	1	538.91		
50.04 E 90.58			533.46	N 63.08 E 158.58		-5.21	533.70
" E 124.58			533.66	" E 192.58		-5.36	533.55
" E 158.58			533.67	" E 244.58		-5.39	533.52
" E 192.58			533.51	" E 278.58		-5.22	533.69
" E 244.58			533.51	" E 312.58		-5.28	533.63
" E 278.58			533.67	" E 346.58		-5.42	533.49
" E 312.58			533.62	E 60.08 N 29.80		-5.75	533.16
" E 346.58			533.45	" N 61.09		-5.60	533.31
N 14.46 E 90.58			533.45	E 206.08 N 29.80		-5.65	533.28
" E 124.58			533.62	N 61.09		-5.63	533.28
" E 158.58			533.57	E 231.08 N 29.80		-5.72	533.19
" E 192.58			533.45	N 61.09		-5.55	533.36
" E 244.58			533.57	E 377.08 N 29.80		-5.74	533.17
" E 278.58			533.68	N 61.09		-5.60	533.31
" E 312.58			533.61	CHECK B.M.		-0.92	537.99
" E 346.58			533.48				
N 63.08 E 93.42			533.48				
E 124.58			533.07				

PLOTTED 7-18-49  
(SEE 5-57, OFFICE SET)  
WCK.

July 1934

LEONARD  
BAKER T & NOTES  
PAUNE H.C.  
CARVER R.C.

## GRADES FOR 6" UNDER DRAINS

		H.I.		
B.M. Sewer M.H.	GRADE	ROD	ELEV.	CUTS
E 377.08 S 143.17	526.10	-3.27	531.35	C- 5.25
" S 156.67	526.02	-7.35	527.27	C- 1.25
" S 171.83	525.93	-2.00	532.62	C- 6.69
CHECK B.M.		-4.32	530.30 = 530.31	
B.M. Sewer M.H.	+6.36	536.67		530.31
E 231.08 S 143.17	525.43	-5.19	531.48	C- 6.05
" S 156.67	525.35			
" S 171.83	525.26	-7.39	529.28	C- 4.02
E 206.08 S 143.17	525.43	-5.07	531.60	C- 6.17
" S 156.67	525.35			
" S 171.83	525.26	-7.51	529.16	C- 3.90
CHECK B.M.		-6.36	530.31 = 530.31	

July 1934

LEONARD  
BAKER T & NOTES  
PAUNE H.C.  
CARVER R.C.

## SUBGRADE FOR BASIN CONTROL HOUSE FND.

		H.I.		
B.M. Sewer M.H.	GRADE	ROD	ELEV.	CUTS
S 154.17 E 209.92	522.83	-10.19	526.45	C- 3.62
" E 227.25	522.83	-9.95	526.69	C- 3.86
" E 237.92	523.00	-10.05	526.59	C- 3.59
WEST HUB S 167.33 E 209.92	522.83	-7.09	529.55	C- 6.72
SOUTH HUB " E 209.92	522.83	-7.49	529.15	C- 6.32
" E 227.25	522.83	-7.39	529.25	C- 6.42
" SOUTH E 237.92	523.00	-6.75	529.89	C- 6.89
" EAST E 237.92	523.00			
CHECK B.M.		-6.33	530.31 = 530.31	
B.M. on Sewer M.H.	+6.72	537.03		530.31
S 147.42 E 215.08	524.00	-10.30	526.73	C- 2.73
E 222.08	524.00	-10.25	526.78	C- 2.78
S 143.17 E 215.08	526.46	-10.43	526.60	C- 0.14
E 222.08	526.46	-10.05	526.98	C 0.52
140.0 E 217.58	526.46	-4.80	532.23	C- 5.77
E 219.58	526.46	-4.80	532.23	C- 5.77

July 23, 49

LEONARD  
BAKER A + NOTES  
PAYNE H.C.  
CARVER P.C.

	H.I.				
	+5.25	535.56		530.31	
	GRADE	ROD	ELEV.	CUTS	
W/O S 135.	529.25	-3.95	531.61	C-2.36	
" S 149.00	528.66	-4.10	531.46	C-2.80	
" S 163.00	528.07	-4.69	530.87	C-2.80	
" S 177.00	527.48	-5.45	530.11	C-2.63	

GRADES FOR FIRE Hyd. SET FOR FLG. GRADE

	H.I.				
B.M. on Sewer M.H.	+7.82	542.22		534.40	
N 125 W 281	GRADE	ROD	ELEV.	CUTS OR FILL	
# 1 FIRE Hyd.	538.15	-8.51	533.71	F 4.44	
# 8855 W 260					
2 FIRE Hyd.	535.00	-7.60	534.62	F-0.38	
B.M. on Sewer M.H.	+8.71	538.23		529.52	
# 5181 E 218.58	GRADE	ROD	ELEV.	CUT OR FILL	
4 FIRE Hyd.	529.50	-8.71	529.52	C-0.20	
B.M. on Man.	+5.38	543.85		538.47	
E 590 S 185	GRADE	ROD	ELEV.	CUT OR FILL	
# 5 FIRE Hyd.	528.90	-14.95	528.90	GRADE	
E 590 N 93					
# 6 FIRE Hyd.	542.50	-1.35	542.50	GRADE	
B.M. SALT STORAGE	+5.29	551.95		546.66	
N 148.5 E 144.2	GRADE	ROD	ELEV.	CUT	
# 7 FIRE Hyd.	546.00	-5.95	546.00	GRADE	

July 26, 49

LEONARD  
BAKER A + NOTES  
PAYNE H.C.  
CARVER P.C.

## ELEC. Box. SET Sub GRADE

	H.I.				
B.M. ON DAM	+7.30	543.69		536.39	
	GRADE	ROD	ELEV.	CUTS	
W 300.05 N 92.00	529.33	-6.71	536.98	C-5.65	
" N 98.33	529.33	-6.60	537.09	C-5.76	
W 243.72 N 92.00	529.33	-5.99	537.70	C-6.37	

Sept 14, 1949

LEONARD  
BAKER A + NOTES  
PAYNE H.C.  
CARVER P.C.

## DRAIN PIPE FOR ELEC. BOXES

	H.I.				
B.M. on Sewer M.H.	+4.76	543.32		538.56	
N 93.08 W 125.75	GRADE	ROD	ELEV.	BLUETOP TO GRADE	
" W 146.83	538.73	4.59	538.73	TO GRADE	
" W 167.92	538.23	5.09	538.23	TO GRADE	
" W 189.00	537.73	5.59	537.73	" "	
" W 210.08	537.22	6.10	537.22	" "	
" W 231.17	536.72	6.60	536.72	" "	
" W 252.25	536.21	7.11	536.21	" "	
" W 273.25	535.71	7.61	535.71	" "	
" W 273.25	535.20	8.12	535.20	" "	

Aug. 2, 49

LEONARD  
BAKER & NOTES  
PAYNE, N.C.  
CARTER, R.O.CHECK ELEV. OF FLOOR:  
FOOTING UNDER S. END OF SETTLING BASIN

B.M. ON SEWER M.H.	+ 1.70	H.I.	531.22	529.52	
	GRADE	ROD	ELEV.		
S154.17 E 47.08	529.34	-1.89	529.33	.01 Low	
S151.67 "	529.00	-2.22	529.00	O.K.	
S154.17 E 97.08	529.14	-2.11	529.11	.03 Low	
S151.67 "	528.80	-2.42	528.80	O.K.	
S154.17 E 122.08	529.04	-2.20	529.02	.02 Low	
S151.67 "	528.70	-2.55	528.67	.03 Low	
S154.17 E 147.08	528.94	-2.30	528.92	.02 Low	
S151.67 "	528.60	-2.61	528.61	.01 High	
S154.17 E 172.08	528.84	-2.42	528.80	.04 Low	
S151.67 "	528.50	-2.74	528.48	.02 Low	
S154.17 E 192.58	528.76	-2.49	528.73	.03 Low	
S151.67 "	528.42	-2.80	528.42	O.K.	
S154.17 E 244.58	528.76	-2.49	528.73	.03 Low	
S151.67 "	528.42	-2.82	528.40	.02 Low	
S154.17 E 265.08	528.84	-2.40	528.82	.02 Low	
S151.67 "	528.50	-2.71	528.51	.01 High	
S154.17 E 290.08	528.94	-2.32	528.90	.04 Low	
"	528.60	-2.62	528.60	O.K.	

	H.I.	531.22	
S154.17 E 315.08	529.04	-2.21	529.01 .03 Low.
S151.67 "	528.70	-2.51	528.71 .01 High
S154.17 E 340.08	529.14	-2.11	529.11 .03 Low
S151.67 "	528.80	-2.42	528.80 O.K.
S154.17 E 365.08	529.24	-1.99	529.23 .01 Low
S151.67 "	528.90	-2.31	528.91 .01 High
S154.17 E 390.58	529.34	-1.89	529.33 .01 Low
S151.67 "	529.00	-2.19	529.03 .03 High
S154.17 E 72.08	529.24	-2.01	529.21 .03 Low
S151.67 "	528.90	-2.33	528.89 .01 Low
CHECK B.M.	-1.70	529.52	= 529.52

Aug. 4, 1949.

LEONARD  
BANKER  
PAYNE  
CARVER

## EFFLUENT CONDUIT:

TOP ELEV. ON FLARED WALL FITTINGS; WHEN PLACED

B.M.	+7.40	541.80	534.40	Rim M.H. 3m W205.
CORRECT ELEV. ON TOP.		529.90		
RING #7		-11.89	529.91	
" #8.		-11.89	529.91	
" #5.		-11.88	529.92	
" #6.		-11.88	529.92 TO .33	
CHECK R.M.		-7.40	534.40	

CHECK ELEV. DURING POUR.

AFTER

AUG. 5, 1949

LEONARD  
PAYNE - CARVER

B.M.	+6.89	541.29	534.40
RING #5.		529.90	-11.385 529.905
" #6.		"	-11.37 529.92
" #7.		"	-11.38 529.91
" #8.		"	-11.39 529.90
CHECK R.M.		-6.89	534.40

AUG. 5, 1949

LEONARD  
PAYNE  
CARVER 22

CHECK ELEV. ON FOOTING FORMS, MIXING BASIN.

POSITION:	GRADE	-	ELEV. ON FORM.
R.M.	+1.34	539.00	537.99 POINT ON FOOTING.
E47.08	N61.09 S	535.00	-4.36 534.97
"	N71.33 N	"	-4.35 534.98
E70.0	N61.09 S	534.93	-4.38 534.95
"	N71.33 N	"	-4.39 534.94
E93.42	N61.09 S	534.87	-4.44 534.89
"	N74.33 N	"	-4.44 534.89
E192.58	N61.09 S	534.92	-4.41 534.92
"	N74.33 N	"	-4.42 534.91
E218.58	N61.09 S	535.00	-4.33 535.00
"	N71.33 N	"	-4.34 534.99
E244.58	N61.09 S	534.92	-4.40 534.93
"	N74.33 N	"	-4.43 534.90
E346.58	N61.09 S	534.88	-4.44 534.89
"	N74.33 N	"	-4.44 534.89
E390.08	N61.09 S	535.00	-4.33 535.00
"	N74.33 N	"	-4.34 534.99
CONC. MON 4+20E CHECK R.M.		-1.73	537.60 = 537.69

Aug. 8, 1949

LEONARD  
BAKER  
PAYNE  
CARRIER

CHECK ELEV. ON TOP OF W. WALL OF SETTling BASINS

R.M. + 6.10	552.76		546.66
515.2 E47.08		Rod -2.27	550.49
" E51.08		-2.25	550.51
636 E47.08		-2.25	550.51
" E51.08		-2.26	550.50
558.17 E47.08		-2.25	550.51
" E51.08		-2.25	550.51
5106.17 E47.08		-2.27	550.49
" E51.08		-2.25	550.51
5122 E47.08		-2.26	550.50
" E51.08		-2.26	550.50
5143.42 E47.08		-2.25	550.51
" E51.08		-2.27	550.49
T.P. 1 ON RAMP. steel. + 2.21	H.I. 542.21	-12.76	540.00 WEST END By Pass STR.
T.P. 2 ON ROCK + 0.65	H.I. 529.75	-13.11	529.10
SET BM ON CONC.		-10.60	519.15
CHECK ELEV WEST RISER		-9.44	520.31
" " EAST RISER		-9.44	520.31
T.P. 3 ON ROCK + 5.35	H.I. 534.90	-0.20	529.55
CK. IN SEWER M.H.		-4.59	530.31

Aug. 8, 1949

LEONARD  
BAKER, NOTES &  
PAYNE, A.C.  
CARRIER, RC.

CHECK ELEV. OF SUBGRADE &amp; FORMS ZEPOLITE EFFLUENT

B.M. + 7.63	526.78		519.15
N5.0 E5.5 FORM	518.08	Rod -10.29	516.49 O.K.
SUB GRADE	516.58	-8.72	518.06 .02 LOW
E12.0 FORM	518.08	-10.22	516.56 O.K.
SUB GRADE	516.58	-8.71	518.07 .01 LOW
W5.5 FORM	518.08	-10.24	516.54 O.K.
SUB GRADE	516.58	-8.68	518.10 .02 HIGH
W12.0 FORM	518.08	-10.30	516.48 O.K.
SUB GRADE	516.58	-8.71	518.07 .01 LOW
N3.0 E5.5 FORM	518.08	10.21	516.57 O.K.
SUB GRADE	516.58	-8.72	518.06 .02 LOW
E12. FORM	518.08	10.25	516.53 O.K.
SUB GRADE	516.58	-8.71	518.07 .01 LOW
W5.5 FORM	518.08	10.38	516.40 O.K.
SUB GRADE	516.58	-8.68	518.10 .02 HIGH
W12. FORM	518.08	-10.32	516.46 O.K.
SUB GRADE	516.58	-8.71	518.07 .01 LOW
S11 E12. FORM	518.08	-10.24	516.54 O.K.
SUB GRADE	516.58	-8.72	518.06 .02 LOW
W12. FORM	518.08	-10.22	516.56 O.K.
SUB GRADE	516.58	-8.72	518.06 .02 LOW
S11 E5.5 FORM	518.08	-10.25	516.53 O.K.
SUB GRADE	516.58	-8.72	518.06 .02 LOW
W5.5 FORM	518.08	-10.24	516.54 O.K.
SUB GRADE	516.58	-8.72	518.06 .02 LOW
S295 E12. FORM	518.08	-10.38	516.40 O.K.
SUB GRADE	516.58	-8.74	518.04 .04 LOW
W12. FORM	518.08	10.32	516.46 O.K.
SUB GRADE	516.48	-8.72	518.06 .02 LOW
S52.0 E12. FORM	517.98	-10.32	516.46 O.K.
SUB GRADE	516.48	-8.81	517.97 .01 LOW
W12. FORM	517.88	-10.24	516.54 HIGH
SUB GRADE	516.38	-8.81	517.97 .01 LOW
S745 E12. FORM	517.88	-10.40	516.38 O.K.
SUB GRADE	516.38	-8.91	517.87 .01 LOW
W12. FORM	517.88	-10.36	516.42 HIGH
		-8.93	517.85 .03 LOW



	H.I.	526.78		
Sub GRADE		516.28	-10.54	516.24 O.K.
597.0 E 12 Form		517.78	-9.02	517.76 02 Low
" Sub GRADE		516.28	-10.44	516.34 HIGH
" W 12 Form		517.78	-9.02	517.76 02 Low
SubGrade		516.18	-10.69	516.09 O.K.
5119.5 E 12 Form		517.68	-9.11	517.67 01 Low
" Sub GRADE		516.18	-10.74	516.04 O.K.
" W 12 Form		517.68	-9.09	517.69 01 HIGH
"				
5119.5 E 12			-9.59	517.2
Q			-9.61	517.17
W 12			-9.60	517.18
Sub GRADES				
582 Q			-10.54	516.24
" 6 E			-10.45	516.33
" 6 W			-10.58	516.20
585 Q			-10.67	516.11
" 7 E			-10.58	516.20
" 7 W			-10.57	516.21
590 Q			-10.86	515.92
7 E			-10.66	516.12
7 W			-10.41	516.37
595 Q			-10.65	516.13

	H.I.	526.78		
595 7 E			-10.66	516.12
" 7 W			-10.45	516.33
596 Q			-12.42	514.36
" 7 E			-12.56	514.22
" 7 W			-12.69	514.09
5103.4 7 1/2 E			-12.79	513.99
7 1/2 W			-12.32	514.46

AUG. 10, 49

LEONARD  
BAKER T. NOTES  
BOYNE, H.C.  
CARVER, R.C.CHECK ELEV. OF FORMS:  
LEONITE EFFLUENT CONDUIT

B.M. on Conc.	+ 8.79	527.94		519.15		H.I. = 527.94					
	GRADE	ROD	ELEV.			GRADE	ROD	ELEV.			
529.58	E 10.5	517.58	10.37	517.57	.01 Low	574.58	W 10.5	517.38	-10.56	517.38	O.K.
	E 6.75	517.58	-10.37	517.57	.01 Low		W 6.75	517.38	-10.56	517.38	O.K.
	W 10.5	517.58	-10.36	517.58	O.K.	533.08	E 01.0	517.56	-10.38	517.56	O.K.
	W 6.75	517.58	-10.36	517.58	O.K.		E 5.0	517.56	-10.37	517.57	.01 High
540.83	E 10.5	517.53	-10.42	517.52	.01 Low		W 01.0	517.56	-10.37	517.57	.01 High
	E 6.75	517.53	-10.40	517.54	.01 High		W 5.0	517.56	-10.36	517.58	.02 High
	W 10.5	517.53	-10.42	517.54	.01 High	547.08	E 01.0	517.50	-10.43	517.51	.01 High
	W 6.75	517.53	-10.41	517.53	O.K.		E 5.0	517.50	-10.43	517.51	.01 High
552.00*	E 10.5	517.48	-10.47	517.47	.01 Low		W 01.0	517.50	-10.43	517.51	.01 High
	E 6.75	517.48	-10.46	517.48	O.K.		W 5.0	517.50	-10.44	517.50	O.K.
	W 10.5	517.48	-10.46	517.48	O.K.	557.08	E 01.0	517.46	10.47	517.47	.01 High
	W 6.75	517.48	-10.47	517.47	.01 Low		E 5.0	517.46	10.48	517.46	O.K.
563.33	E 10.5	517.43	-10.52	517.42	.01 Low		W 01.0	517.46	10.48	517.46	O.K.
	E 6.75	517.43	-10.51	517.43	O.K.		W 5.0	517.46	-10.49	517.45	.01 Low
	W 10.5	517.43	-10.52	517.42	.01 Low	571.08	E 01.0	517.40	-10.55	517.39	.01 Low
	W 6.75	517.43	-10.51	517.43	O.K.		E 5.0	517.40	-10.55	517.39	.01 Low
574.58	E 10.5	517.38	-10.57	517.37	.01 Low		W 01.0	517.40	-10.56	517.38	.02 Low
	E 6.75	517.38	-10.56	517.38	O.K.		W 5.0	517.40	-10.54	517.40	O.K.
									- 8.79	519.15	

CK-B.M.

Aug. 12, 1949

LEONARD, T.  
BAKER, NOTES  
PAYNE, H.C.  
CARVER, R.B.CHECK ELEV. OF GUIDE IRON  
FLOOR FOOTING UNDER S. END SETTLING BASIN  
N.I.

B.M. on Conc. Fnd. + 3.78	537.13		533.35
E 47.08	GRADE	ROD	ELEV.
		-8.13	529.00
		-8.13	529.00
E 72.08		-8.25	528.88
		-8.24	528.89
E 97.08		8.32	528.81
		8.32	528.81
E 122.08		8.435	528.70-
		8.44	528.69
E 147.08		8.545	528.59-
		8.545	528.59-
E 172.08		8.64	528.49
		8.635	528.50-
E 192.58		8.72	528.41
		8.72	528.41

Aug. 16, 1949.

LEONARD - NOTES  
PAYNE - T.  
CARVER - RODEFFLUENT CONDUIT  
TOP ELEV. ON FLARED WALL FITTINGS WHEN PLACED.  
Rim M.H.

B.M. + 6.61	541.01		534.40
	GRADE		SILL W/ROD
	529.90		
RING #1		-11.09	529.92
" #2		-11.09	529.92
" #3		-11.07	529.94
" #4		-11.09	529.92
CHECK ELEV. ON RINGS PREVIOUSLY SET:			
RING #5		-11.09	529.92
" #6		-11.08	529.93
" #7		-11.10	529.91
" #8		-11.11	529.90

Aug. 16, 1949

LEONARD  
PRYNE  
CARYER

## ZENITE EFFLUENT, FORM GRADES

R. 17.	+9.06	528.21	6.800	519.15
574.68		517.88	10.33	.01 to .05 Low.
585.80		517.83	10.58	.01 to .02 Low
897.08		517.78	10.45	.01 to .03 Low
5108.33		517.73	10.48	.01 to .05 Low
5119.58		517.68	10.53	.02 to .04 Low.
578.08		517.87	10.34	.01 to .03 Low
596.70		517.78	10.43	.01 to .02 Low.
578.08	GUTTER	517.57	10.84	.03 to .04 Low
596.70	"	517.28	10.93	CENTER .03 Low

Aug. 17, 1949

LEONARD  
PAYNE  
CARYER

## ZEOLITE EFFLUENT CONDUIT, RECHECK FORMS.

B.M. + 5.95	525.10		519.15
574.58 11E	517.88	-7.20	517.90
" 6.5E	"	-7.21	" .89
" 6.5W	"	-7.21	" .89
" 11W	"	-7.20	" .90
585.83 11W	517.83	-7.27	" .85
" 6.5W	"	-7.30	" .80
" 6.5E	"	-7.29	" .81
" 11E	"	-7.28	" .82
597.08 11E	517.78	-7.34	" .76
" 6.5E	"	-7.35	" .76
" 6.5W	"	-7.35	" .76
" 11W	"	-7.36	" .75
5108.33 11W	517.73	-7.39	" .71
" 6.5W	"	-7.39	" .71
" 6.5E	"	-7.39	" .71
" 11E	"	-7.39	" .71

H.L.	525.10		
5119.58 11E	517.68	-7.45	517.65
" 6.5E	"	-7.43	" .67
" 6.5W	"	-7.45	" .65
" 11W	"	-7.45	" .65
RECHECK AFTER	CORRECTING	FORMS	
	GRADE	6. ROD.	
585.83	517.83	7.27	0.176.02LOW
597.08	517.78	7.32	"
5108.33	517.73	7.37	"
5119.58	517.68	7.42	"
578.08 GUTTER	517.37	7.73	O.K.
596.70 "	517.28	7.82	O.K.
5103.46 "	517.26	7.84	O.K.
TOP OF STEEL PLATES	522.18	2.92	BOTH O.K.
CHECK B.M.		-5.95	519.15.

## MIXING BASINS, CHECK FORMS FOR ELEV.

B.M. + 0.54	$\sum$ 538.53	—	537.99
N298; E48.33	535.00	3.53	535.00
E69.50	534.94	3.59	534.94
* E90.58	534.88	3.63	534.90
E107.58	534.84	3.69	534.84
* E124.58	534.79	3.73	534.80
E140.05	534.75	3.78	534.75
* E158.58	534.81	3.72	534.81
E175.58	534.86	3.68	534.85
* E192.58	534.92	3.61	534.92
E218.58	535.00	3.54	534.99
* E244.58	534.92	3.60	534.93
E261.58	534.86	3.66	534.87
* E278.58	534.81	3.71	534.82
E297.11	534.75	3.78	534.75
* E312.58	534.79	3.73	534.80
E329.58	534.84	3.69	534.84
* E346.58	534.88	3.65	534.88
E367.70	534.94	3.56	534.97 +.03
E389-396.0	535.00	3.53	535.00
CHECK B.M.		-0.54	537.99

## CHECK TOP OF E. WALL SETTLING BASIN (ZEOLITE)

B.M. + 5.94	$\sum$ 552.60	—	546.66
E47.08 S 58.17	550.50	-2.09	550.51
568.17		-2.09	550.51
578.17		-2.09	550.51
588.17		-2.10	550.50
598.17		-2.10	550.50
5101.17		-2.11	550.49
CHECK B.M.		-5.94	546.66
E51.08 S 58.17		-2.09	550.51
568.17		-2.09	550.51
578.17		-2.09	550.51
588.17		-2.09	550.51
598.17		-2.10	550.50
5101.17		-2.10	550.50

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AUG. 17, 1949, EDWARD C. P.  
PAYNE X NOTES  
CARVER ROAD

38

## CHECK SUBGRADE UNDER COLL. IN SETT. BASIN CONT.

B	BM +143	Σ	ELV. 537.92	Σ	ELV.
NA	NA 4.42			NA 7.00	
	E 65.08	6.48	532.94	E 65.08	5.70 533.72
	82.08	6.46	532.96	82.08	5.75 533.67
	99.08	6.49	532.93	99.08	5.82 533.60
	116.08	6.52	532.90	116.08	5.82 533.60 .57
	133.08	6.55	532.87	133.08	5.93 533.49
	150.08	6.49	532.93	150.08	5.86 533.56 .53
	167.08	6.49	532.93	167.08	5.81 533.61
	184.08	6.42	533.00	184.08	5.80 533.62
	201.08	6.56	532.86	201.08	5.85 533.57
	236.08	6.42	533.00	236.08	5.69 533.73
	253.08	6.39	533.03	253.08	5.73 533.69 .05 H
	270.08	6.60	532.82	270.08	5.83 533.59
	287.08	6.72	532.70	287.08	5.98 533.44
	304.08	6.59	532.83	304.08	5.83 533.59 .07 H
	321.08	6.52	532.90	321.08	5.84 533.58
	338.08	6.60	532.82	338.08	5.74 533.68 .07 H
	355.08	6.52	532.90	355.08	5.64 533.78 .12 H
	372.08	6.54	532.88	372.08	5.69 533.73
CH	CHECK E. MON.	-1.83	537.59 = 537.59	CHECK E. MON.	-1.83 537.59 = 537.59

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AUG. 23 '49

LEONARD  
PAYNE  
CARVER

## CHECK SUR-GRADES UNDER CHEMICAL HOPPER,

R.M. +2.01	540.04	538.03
N105.75 W46.3	-11.57	
" W60	-11.95	
" W74.5	-12.08	
N99 W45.3	-11.95	
" W60	-11.98	
" W74.3	-12.07	
N84 W44.83	-12.06	
" W60	-12.09	
" W76.33	-12.15	
N91 "	-12.03	
N90 W48	-11.22	
" W60	-11.21	
" W71	-11.36	
UNDER COL. #9	-12.35	
" SUMP	-12.20	52.684
CHECK B.17.	-2.01	

AUG. 29, 1949

LEONARD CP AD  
PAYNE & NOTES  
CARVER RCO

## BEAMS (CHLORINATION HOUSE)

BM +3.74	X 550.40	—	546.66
CL 1	549.00	G.R. 1.40	O.K.
" 2			OK
" 3			OK
" 4			OK
" 5			OK
" 6			OK
" 7			OK
" 8			OK
CL 9			OK
" 9A			OK
" 10			OK
" 11			OK
" 12			OK
" 13			OK
" 14			OK
" 15	548.83	GR 1.57	OK
" 16	548.00	GR 2.40	OK
" 17	548.00		OK
" 18	547.17	GR 2.23	OK
CHECK DM		-3.74	546.66



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40929, 1949

LEONARDO P.  
PAYNEK NOTES  
CARVER ROAD

## CHECK FOOTINGS, RECEIVING HOPPER

CONT

B.M +0.95	T 538.98	-	538.03	T 538.98	-	
	529.42			N106.42 E47.08	1.49	537.49
				E22.08	1.50	537.48
N103.76 W47		9.56		E00.00	1.50	537.48
W60		9.56		W22.33	1.48	537.50
W73		9.56		W26.28	3.91	535.07
W73 N95.08		9.56		W43.22	6.31	532.67
N86.58		9.57		W46.00	7.81	531.17
N86.58 W60		9.56		CHECK BM	0.96	538.02 = 538.03
W47		9.56				
W47 N95.08		9.57				

## CHECK FOOTING UNDER NORTH WALL, HEAD HOUSE.

N102.45 E47.08	-4.49	1.50	537.48
E22.08		1.48	537.50
E00.00		1.48	537.50
W22.33		1.49	537.49
W26.28		3.90	535.08
W.43.22		6.30	532.68
W.46.00		7.81	531.17

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## CHECK SUMP IN HOPPER

BM +1.20	T 539.23		538.03
TOP	529.42	-9.82	529.41
BOTTOM	527.42	-11.82	527.41

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AUG 30, 1949

LEONARD CP  
PAYNE X NOTES  
CARVER ROD

EAST 6" HEADER UNDER ZEOLITE (GRADE STAKES)

BM +7.86	X 527.01	-	519.15
E 43.00 S 33.58	✓ 4.98		522.03
S 48.08	✓ 5.05		521.96
S 56.08	✓ 5.09		521.92
S 70.58	✓ 5.16		521.85
S 78.58	✓ 5.21		521.80
S 93.08	✓ 5.28		521.73
S 101.08	5.32		521.69
S 115.58	✓ 5.39		521.62
CHECK B.M.	-7.86		519.15

NOTE, GRADE SET .07 LOW TO ALLOW FOR PIPE THICKNESS.

AUG 30, 1949

LEONARD CP  
PAYNE X NOTES  
CARVER ROD

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ZEOLITE EFFLUENT CONDUIT (CHECK TOPES)

B.M. +7.86	X 527.01	-	519.15
S 29.58 W 5.5	523.08	3.92	523.09
W 11.0	523.07	3.84	523.17
S 38.08 W 5.5	523.04	3.96	523.05
W 11.0	523.13	3.90	523.11
S 60.08 W 5.5	522.94	4.07	522.94
W 11.0	523.03	4.02	522.99
S 83.08 W 5.5	522.84	4.16	522.85
W 11.0	522.93	4.12	522.89
S 105.08 W 5.5	522.74	4.25	522.76
W 11.0	522.83	4.17	522.84
S 29.58 E 5.5	523.08	3.94	523.07
E 11.0	523.17	3.84	523.17
S 38.08 E 5.5	523.04	3.99	523.02
E 11.0	523.13	3.90	523.11
S 60.08 E 5.5	522.94	4.06	522.95
E 11.0	523.03	3.98	523.03
S 83.08 E 5.5	522.84	4.16	522.85
E 11.0	522.93	4.09	522.92

AUG. 30, 1949

LEONARD K. NOTES  
PAYNE  
CARVER ROAD

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CONT.

## ELEC. CONDUIT TO GATE #

	$\pi$									
					BM + 5.55	$\pi$ 539.95	-	534.40		
						GRADE		ELV.	CUTS	
5105.08	E 6.5	522.74	4.25	522.76	585	W324.7	532.25	-5.73	534.22	1.97
	E 11.0	522.83	4.18	522.83		W301.0	532.45	-5.70	534.25	1.80
CHECK B.M.			-7.86	519.15		W277.0	532.65	5.28	534.67	2.02

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AUG 31, 1949

LEONARD  
PAYNE & NOTES  
CARVER ROAD

48

MIXING BASINS, CHECK FORMS FOR ELEV

CHECK STEEL RAILS IN BASIN (ON PAGE 47)

BM + 4.88	T 539.92	-	534.54	S 15.17 E 196.58	535.00	-4.42	535.00
S 15.17 E 192.58	535.00	4.42	535.00	E 205.58		4.92	535.00
E 218.58		4.42	535.00	E 213.58		4.93	534.99
E 244.58		4.42	535.00	E 223.58		4.91	535.01
N 6.83 E 192.58		4.42	535.00	E 231.58		4.92	535.00
E 218.58		4.42	535.00	E 240.58		4.92	535.00
E 244.58		4.42	535.00	N 4.00 E 196.58		4.91	535.01
N 7.58 E 192.58	534.92	4.51	534.91	E 205.58		4.91	535.01
E 218.58	535.00	4.42	535.00	E 213.58		4.42	535.00
E 244.58	534.92	4.50	534.92	E 223.58		4.92	535.00
N 22.68 E 192.58	534.92	4.50	534.92	E 231.58		4.92	535.00
E 218.58	535.00	4.91	535.01	E 240.58		4.91	535.01
E 244.58	534.92	4.51	534.91				
N 29.80 E 192.58	534.92	4.49	534.93				
218.58	535.00	4.91	535.01				
244.58	534.92	4.50	534.92				
CHECK B.M.		-4.88	534.54				

49

SEPT. 1, 1949

LEONARD  
PAYNE & NOTES  
CARVER ROAD

MIXING BASIN, CHECK FORMS FOR ELEV.

BM +4.69	X 539.23	-	534.54
515.17 E 278.58	535.00	4.22	535.01
E 295.58		4.23	535.00
E 312.58		4.23	535.00
N 6.83 E 278.58	535.00	4.22	535.01
E 295.58		4.25	534.98
E 312.58		4.23	535.00
N 7.58 E 278.58	534.81	4.40	534.83
E 297.11	534.75	4.48	534.75
E 312.58	534.79	4.43	534.80
N 22.68 E 278.58	534.81	4.42	534.81
E 297.11	534.75	4.47	534.76
E 312.58	534.79	4.42	534.81
CHECK BM		-4.69	534.54

50

STEEL RAILS IN BASIN (ON PAGE 49)  
X 539.23

515.7 E 282.58	535.00	4.24	534.99
E 291.58		4.24	534.99
E 299.58		4.22	535.01
E 308.58		4.23	535.00
N 4.00 E 282.58		4.22	535.01
E 291.58		4.22	535.01
E 299.58		4.22	535.01
E 308.58		4.22	535.01
BUMP BOT.		8.16	531.07

## 6" HEADER DRAIN S. SIDE FILTER BLDG.

BM+5.82	540.22	-	534.40
W 51.08	535.23		
W 76.75	535.10	5.12	
84.75	535.06	5.16	
110.42	534.93	5.29	
118.42	534.89	5.33	
144.08	534.77	5.45	
152.08	534.73	5.49	
177.75 IN	534.60	5.62	
✓ " OUT	528.93	11.29	
185.75	528.89	11.33	
211.42	528.76	11.46	✓
219.42	528.72	11.50	✓
245.08	528.59	11.63	✓
R62.7 EXIST PIPE		-11.54	528.68

NOTE GR. SET .07 LOW TO ALLOW FOR THICKNESS  
OF PIPE

## 6" HEADER DRAIN SOUTH SIDE FILTER BLDG.

BM+6.38	540.78	-	534.40
W 51.08	535.23	6.55	
76.75	535.10	5.68	
84.75	535.06	5.72	
110.42	534.93	5.85	
118.42	534.89	5.89	
144.08	534.77	6.01	
152.08	534.73	6.05	
177.75 IN	534.60	6.18	
177.75 OUT	529.43	11.35	9.35 = C 2.00
185.75	529.35	11.43	
211.42	529.10	11.68	
219.42	529.03	11.75	
245.08	528.85	11.93	
W 262.7 EXIST	528.68	12.10	
CHECK BM		6.38	534.40

NOTE GR. SET .07 LOW TO ALLOW FOR THICKNESS OF PIPE

53

SEPT 2, 1949 LEONARD  
PAYNE & NOTES  
CARVER ROD

BM+7.67	7 526.82	-	519.15
S 29.5 W 5.5	523.08	3.73	
W 12	523.17	3.64	
E 5.5	523.08	3.74	
E 12	523.17	3.65	
S 12 W 5.5	523.08	3.74	
W 12	523.17	3.64	
E 5.5	523.08	3.74	
E 12	523.17	3.66	
CHECK B.M		-3.17	523.65 = 523.66

SEPT 2, 1949 LEONARD <sup>54</sup>  
PAYNE & NOTES  
CARVER ROD

## NORTH 6" HEADER DRAIN UNDER FILTERS

BM+5.16	7 543.72	-	538.56
W 51.08	535.23	8.19	
76.75	535.10	8.62	
* 89.75	535.06	18.66	
110.42	534.93	18.79	
118.42	534.89	18.83	
144.08	534.77	18.95	
152.08	534.73	18.99	
177.75 17	534.60	19.12	
177.75 out	530.93	12.79	
185.75	530.89	12.83	
211.42	530.76	12.96	
219.42	530.72	13.00	
245.08	530.59	13.13	
267.00			
INVERT OF EXIST. PIPE		-12.57	531.15
W 256 EXIST. TOP OF 42" LINE		-13.49	530.23
INVERT OF EXIST 6" T&V 17" MH		12.88	530.84
CHECK B.M		5.16	538.56
NOTE GRADE SET .07 LOWER TO ALLOW FOR THICKNESS OF PIPE.			

55

SEPT 8, 1949

LEONARD  
BAKER  
PAYNE X NOTES  
CARVER ROD

CHECK STEEL RAILS IN BASIN

BM + 1.73	539.32	537.59
516.7 E 350.58	4.32	
E 359.58	4.32	
E 367.58	4.32	
E 376.58	4.32	
E 384.58	4.32	
N 27.63 E 350.58	4.31	
359.58	4.32	
367.58	4.31	
376.58	4.31	
384.58	4.32	
CHECK BM	1.73	537.59

Clear  
Hot  
WIND

9-6-49

Leonard CP  
Baker X Notes  
Payne H.C.  
Carver R.O.

56

CHECK FLOOR GRADE EFFLUENT CONDUIT

B.M. on Con. Block	+ 802	527.17	519.15
GRADE	ROD	ELEV.	CHECK
W 47.10 N 12	523.25	3.93	523.24 0.1 Low
S 12	523.25	3.92	523.25 O.K.
W 37.10 N 12	523.30	3.87	523.30 O.K.
S 12	523.30	3.87	523.30 O.K.
W 27.10 N 12	523.35	3.82	523.35 O.K.
S 12	523.35	3.83	523.35 O.K.
W 17.10 N 12	523.40	3.77	523.40 O.K.
S 12	523.40	3.77	523.40 O.K.
N 0	523.40	3.77	523.40 O.K.
CHECK B.M. ON FT.		3.52	523.65 = 523.66



57

CLEAR  
WINDY  
HOT  
-11

SEPT 7 1949

LEONARD  
BAKER  
PAYNE & NOTES  
CARVER ROD

C CHECK STEEL IN BASIN

B.M. + 4.69	π 539.23	-	534.54
515.7	E 162.58	1.24	
171.58		1.23	
179.58		1.24	
188.58		1.25	
11. 112.7.63	E 162.58	1.23	
171.58		1.24	
179.58		1.23	
188.58		1.24	
CHECK B.M.		-4.69	534.54

Sept. 13, 1949

LEONARD 58  
BAKER & NOTES  
PAYNE H.C.  
CARVER R.C.

ELEC. CONDUIT, LIGHT STANDARDS - Sub GRADE

			H.I.			
B.M. Sewer M.H.	+ 5.92	540.32				534.40
	GRADE	ROD	ELEV.		Cuts	
5167.17	W 100.83	535.50	2.27	538.05	C-2.55	
"	W 125.11	535.12	2.82	537.50	C-2.38	
"	W 150.11	534.74	3.16	537.16	C-2.42	
"	W 175.11	534.36	-3.59	536.73	C 2.37	
"	W 200.11	533.98	-3.92	536.40	C 2.42	
SUMP	W 225.11	533.60	-4.22	536.10	C 2.50	
STAND	W 250.11	533.60	-4.32	536.00	C 2.40	
on B.M.			-5.92			534.40

59

Sept. 12, 1949

LEONARD  
BAKER & NOTES  
PAYNE, H.C.  
CARVER, R.C.

## DRY WELLS: GRADES ON FORMS

BM. on SPIKE + 5.58	H.I. 540.12	534.54	
E 126.42 E 139.75	ROD	ELEV.	
E 126.42 N 58.64	-0.42	539.70	
N 64.97	-0.41	539.71	
N 59.30	-1.10	539.02	
N 64.97	-1.07	539.05	
E 139.75 N 58.64	-0.44	539.68	
N 64.97	-0.43	539.69	
N 59.30	-1.10	539.02	
N 64.97	-1.09	539.03	
E 126.42 N 42.99	-0.43	539.69	
N 49.32	-0.42	539.70	
N 43.65	-1.09	539.03	
N 48.66	-1.07	539.05	
E 139.75 N 42.99	-0.45	539.67	
N 49.32	-1.09	539.03	
N 43.65	-0.45	539.67	
N 48.66	-1.10	539.02	
	-5.58	534.54	cb.

clear  
warm

Sept. 14, 1949

LEONARD 60  
BAKER & Notes  
PAYNE H.C.  
CARVER, R.C.

## LEOLITE FOOTINGS Sub Grade

BM. on Conc.	H.I. 4897	528.12		519.15
W 45.23	GRADE	ROD	ELEV	CUTS
530.92 W 48.58	522.50	-4.28	523.84	C-1.34
W 45.33				
549.08 W 48.58	522.50	4.05	524.07	C-1.57
W 45.33				
571.08 W 48.58	522.50	4.38	523.74	C-1.24
W 45.33				
571.08 W 43.3	523.00	-4.38	523.74	C-0.74
549.08	523.00	-4.05	524.07	C-1.07
W 45.33				
S 86.00 W 48.75	522.50	-4.68	523.44	C-0.94
W 45.33				
591.83 W 47.50	522.50	-4.79	523.33	C-0.83
596.08				
598.08 43.3 W	523.00	-4.75	523.37	C-0.37
596.08				
598.08 17. W	523.00	-4.61	523.51	C-0.51
551.08 17 W				
553.08 43.3 W	523.00	-4.63	523.49	C-0.49
573.08				
576.08 17 W	523.00	-4.38	523.74	C-0.74
596.08				
598.08 17 E	523.00	-4.85	523.27	C-0.27
596.08				
598.08 43.3 E	523.00	-4.68	523.44	C-0.44

61

SEPT 14, 49

LEONARD  
BAKER ROD  
PAYNE  
CARVER X, NOTESCLOUDY  
COLD

SEPT 15, 1949

LEONARD  
BAKER  
PAYNE X, NOTES  
CARVER ROD

62

CHECK STEEL RAILS

X

B.M + 4.90

539.44

534.54

CHECK STEEL RAILS

X

B.M + 4.73

539.27

534.54

S 15.17 E 316.58

4.44

S 15.17

325.58

4.44

E 94.58

4.29

333.58

4.45

103.58

4.27

342.58

4.44

111.58

4.27

N 4.00 E 316.58

4.45

120.58

4.29

325.58

4.15

N 4.00 E 94.58

4.27

333.58

4.46

103.58

4.27

342.58

4.45

111.58

4.28

CHECK STEEL RAILS X 539.44

120.58

4.26

S 15.17 E 248.58

4.43

CHECK B.M

4.73 534.54

257.58

4.42

265.58

4.43

274.58

4.44

N 4.00 E 248.58

4.43

257.58

4.42

265.58

4.42

274.58

4.41

CHECK B.M

4.90 534.54

63

Sept 15, 1949

Leonard  
Baker T+Notes  
Payne H.C.  
Carver, R.C.

## ELEC. CONDUIT FOR LIGHT STANDARDS

	H.I.			
B.M. on Sewer M.H. #5.63	540.03		534.40	
590.67 W 180.53	GRADE	ROD	ELEV.	CUTS
0+00	534.00	-3.72	536.31	C-2.31
0+25	533.62	-3.70	536.33	C-2.71
0+50	533.25	-4.25	535.78	C-2.53
0+75	532.87	-4.70	535.33	C-2.46
1+00	532.50	-5.31	534.72	C-2.22
1+11 Sump	532.34	-5.22	534.81	C-2.47
5.90.67 W 180.53	HI = 540.78			
0+00	GRADE 534.00	ROD -4.45	ELEV. 534.40	CUTS 536.33
0+25	533.88	-4.43	536.35	C-2.47
0+50	533.77	-4.48	536.30	C-2.53
0+75	533.65	-4.48	536.30	C-2.65
0+83 <sup>58</sup> SUMP.	533.60	-4.58	536.20	C-2.60
0+93 <sup>58</sup> LIGHT S.	533.60	-5.01	535.77	C-2.17
1+18 <sup>58</sup>	532.15	-6.21	534.57	C-2.42
1+43 <sup>58</sup>	530.69	-7.77	533.01	C-2.32
1+61 <sup>58</sup>	528.10	-9.04	531.74	C-3.74
1+74 <sup>58</sup> SUMP	525.80	-10.88	529.90	C-4.10
5247.48 W 292.4				
1+86 - END	525.80	-12.58	528.20	C-2.40

Sept 8, 1949

LEONARD  
Baker T+Notes  
Payne H.C.  
Carver, R.C.

64

## HEAD HOUSE CONDUIT FORM GRADES

	H.I.			
B.M. on Conc. Corner. FND. #918	528.33		519.15	
E17	512	-4.75	523.58	
S11		-4.75	523.58	
S5		-4.76	523.57	
S4		-4.75	523.58	
N4		-4.76	523.57	
N5		-4.75	523.58	
N11		-4.76	523.57	
N12		-4.76	523.57	
E39	512	-4.71	523.62	
S11		-4.71	523.62	
S5		-4.71	523.62	
S4		-4.72	523.61	
N4		-4.71	523.62	
N5		-4.72	523.61	
N11		-4.70	523.63	
N12		-4.71	523.62	
E41	512	-4.67	523.66	
S11		-4.66	523.67	

65

## HEAD HOUSE CONDUIT - Cont.

	H.I.	ELEV.
	528.33	
E 41 S 5	- 4.66	523.67
S 4	- 4.67	523.66
N 4	- 4.66	523.67
N 5	- 4.66	523.67
N 11	- 4.65	523.68
N 12	- 4.66	523.67

WARM  
CLEAR

Sept. 15, 1949

LEONARD C. V.  
BAKER T + NOTES 66  
PAYNE H. C.  
CARVER R. C.

## MIXING BASIN WALL: ELEV. OF TOP

	T		
BM + 4.58	555.08	-	550.50
E 18.33 N 69.08	550.50	4.59	550.49
N 69.08		4.58	550.50
N 49.08		4.58	550.50
N 39.08		4.58	550.50
E 47.08 N 69.08		4.59	550.49
N 69.08		4.59	550.49
N 49.08		4.60	550.48
N 39.08		4.60	550.48

## TOP OF WEIR WALL IN MIXING BASIN

	T		
	555.08		
N 37.79 E 48.33	549.00	6.09	548.99
E 58.33		6.08	549.00
E 68.33		6.08	549.00
E 78.33		6.08	549.00
E 88.33		6.00	549.08
N 38.54 E 48.33		6.08	549.00
E 58.33		6.08	549.00
E 68.33		6.07	549.01
E 78.33		6.09	548.99
E 88.33		6.10	548.98

67 WARM  
CLEAR

SEPT 16, 49

LEONARD  
BAKER ROD  
PAYNE R. NOTES  
CARVER

WARM  
CLEAR

Sept 16 49

LEONARD 68  
BAKER, R. + Notes  
PAYNE, H.C.  
CARVER, R.C.

CHECK FOOTING SOUTH EAST END ZEOLITE BASIN

HEAD HOUSE CONDUIT FORM GRADES

BM + 8.92

528.07

519.15

BM on Conc.

+ 9.56

H.I.  
528.71

519.15

S 118.08 E 46

523.50

4.57

523.50

E 17 W 17

E 33

4.58

523.49

E 17 S 12

- 5.12 523.59

E 27

4.57

523.50

S 11

- 5.12 523.59

E 27

522.18

5.90

522.17

S 5

- 5.10 523.61

E 22

5.88

522.19

S 4

- 5.11 523.60

E 22

519.68

8.39

519.68

N 4

- 5.11 523.60

E 17

8.39

519.68

N 5

- 5.11 523.60

E 17

517.18

10.89

517.18

N 11

- 5.12 523.59

E 12

10.89

517.18

N 12

- 5.12 523.59

S 121.08 E 46

523.50

4.58

523.49

E 0 S 12

- 5.21 523.50

E 33

4.57

523.50

S 11

- 5.21 523.50

E 27

4.56

523.51

S 5

- 5.22 523.49

E 27

522.18

5.89

522.18

S 4

- 5.21 523.50

E 22

5.89

522.18

N 4

- 5.20 523.51

E 22

519.68

8.39

519.68

N 5

- 5.21 523.50

E 17

8.39

519.68

N 11

- 5.22 523.49

E 17

517.18

10.90

517.17

N 12

- 5.21 523.50

E 12

10.90

517.17

W 17 S 12

- 5.28 523.43

CHECK B.M.

- 8.92

519.15

69

## HEADHOUSE Conduit (Cont)

H.I. 528.71

W17	S11	5.28	523.43
	S5	5.27	523.44
	S4	5.27	523.44
	N4	5.28	523.43
	N5	5.31	523.40
	N11	5.30	523.41
	N12	5.30	523.41
E6.5	N4	5.18	523.53
	S4	5.19	523.52
E11	N4	5.17	523.54
	S4	5.17	523.54
W6.5	N4	5.25	523.46
	S4	5.24	523.47
W11	N4	5.26	523.45
	S4	5.27	523.44

WARM  
OVERCAST

Sept. 20, 49

Leonard  
Baker T+NOTES  
Payne H.C.  
Corder R.C.

70

## ZEOLITE UNDER DRAINAGE

H.I.

B.M. ON CONC.	+ GRADE	H.I.	ROD	ELEV	CUTS
		528.38			519.15
W43.0	533.58	522.10	-4.53	523.80	C-1.70
	48.08	522.03	-4.62	523.71	C-1.68
	56.08	521.99	-4.75	523.58	C-1.59
	70.58	521.92	-4.66	523.67	C-1.75
	78.58	521.87	-4.71	523.62	C-1.75
	93.08	521.80	-5.30	523.03	C-1.23
	101.08	521.76	-4.94	523.41	C-1.65
	115.58	521.69			of DIRT omitted Pile
	123.58	521.64	-5.10	523.23	C-1.59

## ZEOLITE FOOTING SUBGRADE

H.I. 528.33

	GRADE	H.I.	ROD	ELEV.	CUT
5118.08					
5121.08	W 43.33	522.50	-4.80	523.53	C-1.03
	W 27.00	522.50		524.12	C-1.62
	W 27.00	521.18	-4.21	524.12	C-2.94
	W 22.00	521.18		524.51	C-3.33
	W 22.00	518.68	-3.82	524.51	C-5.83
	W 17.00	518.68		524.33	C-5.65
	W 17.00	516.18	-4.00	524.33	C-8.15

Sept. 21, 1949

Leonard P.  
Baker T & notes  
Rayne Rod  
CARVER Rod

FILTER WEST WALL FOOTINGS

	H.I.	ROD	
	543.85		
W183.25 N 9657		11/18	
		Sub	
W174 N 9653		FORM 11/15	532.70
		SubG. 12/16	531.69
N 86.00		FORM 11/18	532.67
		SubG. 12/15	531.70
N 84.00		FORM 11/19	532.66
		SubG. 12/24	531.68
N 84.00		FORM 11/19	532.66
		SubG. 12/27	531.58
W182.17 N 86.00		FORM 11/20	532.65
		S. G. 12/20	531.65
W183.25 N 81.00		FORM 11/21	532.64
		FORM 9/15	534.70
W183.25		FORM 9/16	534.69
		SubG. 10/24	533.61
W183.25		FORM 9/15	534.70
		SubG. 10/16	533.69
W180.25		FORM 9/16	534.69
		SubG. 8/80	535.05
183.25		FORM 7/87	535.98
		Sub G. 8/92	534.93
180.25		FORM 7/87	535.98
		Sub G. 8/98	534.87
183.25		FORM 7/82	536.03
		Sub G. 8/94	534.91
180.25		FORM 7/83	536.02
		Sub G. 8/95	534.90
183.25		FORM 7/82	536.03
		Sub G. 8/93	534.92
180.25		FORM 7/82	536.03
		Sub G. 8/71	535.84
on Conc. For Sub GRADE 183.25		FORM 7/82	536.03

	H.I. 543.85	ELEV.
on Conc. For Sub GRADE	SubG. 8.75	535.10
W180.25	FORM 7.82	536.03



73 HOT  
CLEAR

Sept. 22

LEONARD  
BAKER T & NOTES  
PAYNE H.C.  
CARVER R.C.CLEAR  
HOT

Sept. 22, 1949

LEONARD 74  
BAKER T & NOTES  
PAYNE H.C.  
CARVER R.C.

CHECK TOPS OF MIXING BASIN CONTROL HOUSE

4" C.I. DRAIN

BM +6.33 T 562.99 546.66

B.M. WEST END H.I.  
MIXING BASIN + 382 541.85 538.03

E203.54 N97.33 550.50 2.49 550.50

N99.53 W32.48 531.71 9.22 532.63 C-0.92

N87.33 2.50 550.49

N94.00 W32.48 531.60 9.31 532.54 C-0.94

N77.33 2.49 550.50

N94.00 W40.00 531.44 9.16 532.69 C-1.25

N70.33 2.49 550.50

N94.00 W47.00 MARKED ON  
FORM

N70.33 E213.54 2.48 550.51

E223.54 2.49 550.50

E235.20 2.50 550.49

E235.20 N77.33 2.50 550.49

N87.33 2.48 550.51

N97.33 2.49 550.50

N97.33 E226.66 2.49 550.50

E226.66 550.00 2.99 550.00

E219.36 3.00 549.99

E212.08 2.99 550.50

E212.08 550.50 2.49 550.50

E203.54 2.49 550.50

75 HDT  
CLEAR

Sept. 22, 1949

Leonard  
BAKER T & NOTES  
PAYNE, H.C.  
CARVER, R.O.

## CHEMICAL HOPPER: FORM GRADES

		H.I.	ELEV			H.I. = 549.87		
		GRADE				GRADE	ROD	ELEV
BM. SALT STORAGE	+3.21	549.87	546.66	N90.08	W60.50		-3.80	546.07
N105.00 W74.00		2.87	547.00	N86.58	W52.00		-3.80	546.07
N104.08 W74.00		2.87	547.00	N86.58	W52.00		-3.80	546.07
N105.00 W60.50		2.84	547.01	N104.08	W51.5		-3.38	546.49
N104.08 W60.50		2.86	547.01	N104.08	W52.0		-5.39	544.48
N105.00 W47.00		2.87	547.00	N104.08	W52.5		-3.38	546.49
N104.08 W47.00		2.87	547.00	N96.58	W51.5		-3.37	546.50
N105.00 W47.00		3.85	546.02	N96.58	W52.0		-5.38	544.49
N105.00 W46.00		3.86	546.01	N96.58	W52.5		-3.37	546.50
N95.00 W47.00		3.85	546.02	N84.58	W51.5		-3.38	546.49
N95.00 W46.00		3.86	546.01	N84.58	W52.0		-5.38	544.49
N85.58 W47.00		3.85	546.02	N84.58	W52.5		-3.38	546.49
N85.58 W46.00		3.86	546.01	N90.01	W73.00		-4.63	545.24
N90.00 W73.00		3.47	546.40	N90.70	W73.00		-4.63	545.24
N90.00 W60.50		3.48	546.39	N90.01	W62.00		-4.64	545.23
N90.00 W52.00		3.49	546.38	N90.70	W62.00		-4.64	545.23
N86.58 W73.00		3.80	546.07	N90.01	W51.75		-4.63	545.24
N90.08 W73.00		3.80	546.07	N90.70	W51.75		-4.63	545.24
N86.58 W60.50		3.80	546.07					

West WALL NOT SET THIS DATE -

OK-B.M.

-3.22 546.65 = 546.66

76

77 HOT  
CLEAR

Sept. 21, 1949

LEONARD  
BAKER, T + NOTES  
PAYNE, H.C.  
CARVER, R.C.

78

MIXING BASIN WALLS		TOP ELEV. OF FORM		H.I. 533.22			
B.M. ON SALT STORAGE	+ 6.56	H.I. 533.22	546.66	E 140.58 N 53.44	GRADE 549.0	ROD ELEV -4.22	ELEV 549.00
N E 68.33 N 22.14		549.0	-4.21 549.01	" "	549.0	-4.21	549.01
N E 75.33 N 22.14		549.0	-4.20 549.02	" "	549.0	-4.21	549.01
N E 90.58 N 22.14		549.0	-4.21 549.01	E 158.58 N 53.44	549.0	4.21	549.01
N E 90.58 N 37.79		549.0	-4.23 548.99	" N 53.44	549.0	4.20	549.02
N E 98.58 N 37.79		549.0	-4.21 549.01	GRATING			
N E 106.58 N 37.79		549.0	-4.21 549.01				
N E 124.58 N 37.79		549.0	-4.21 549.01				
N E 124.58 N 53.44		549.0	-4.22 549.00				
N E 132.58 N 53.44		549.0	-4.22 549.00				

79 Not  
Clear

Sept. 23, 1949

LEONARD  
BAKER & NOTES  
PAYNE, H.C.  
CARVER, R.C.

FILTER WALL FND. SUB GR. AND FORMS

B.M. 071 Sewer M.H.	+4.70	<sup>H.I.</sup> 543.26	538.56
W 75.33 N 86.00	529.33	FORM	-13.93 529.33
" " "		Sub GRADE	-15.24
" N 84.00	529.33	FORM	-13.93 529.33
" " "		Sub GRADE	-15.23
W 77.75 N 86.00		FORM	<sup>13.93</sup> -12.44 529.33
" " "		Sub GR.	-15.25
" N 84.00		FORM	<sup>13.94</sup> -12.10 529.32
" " "		Sub GR.	-15.21
Step up		FORM	-12.04
W 77.75 N 86.00		Sub GR.	
" N 84.00		FORM	-15.25
77.75 86.00		FORM	-12.10
W 81.75 N 86.00		Sub GR.	-15.21
" N 84.00		FORM	
W 81.75 N 86.00		Sub GR.	
Step		FORM	
W 81.75 N 84.00		Sub GR.	
" N 84.00		FORM	
Step			
W 81.75 N 86.00			10.03
" N 86.00			13.19

543.26  
539.89

80

H.I. = 543.26

W 81.75 N 84.00	FORM	-10.05	
" N 84.00	Sub	-13.23	530.03
W 85.75 N 86.00	FORM	-10.03	533.23
" N 86.00	Sub	-11.30	531.96
" N 84.00	FORM	10.04	533.22
" N 84.00	Sub	-11.27	531.99
Step			
W 85.75 N 86.00	FORM	-8.08	535.18
" N 86.00	Sub	-11.27	531.99
" N 84.00	FORM	-8.07	535.19
" N 84.00	Sub	-11.26	532.00
W 89.75 N 86.00	FORM	-8.08	535.18
" N 86.00	Sub	-11.31	532.95
" N 84.00	FORM	-8.07	535.19
" N 84.00	Sub	-11.29	531.97
Step OR TOP			
W 89.75 N 86.00	FORM	-7.25	536.01
" N 86.00	Sub	-9.13	534.13
" N 84.00	FORM	-7.26	536.00
" N 84.00	Sub	-9.18	534.08
W 110.0 N 86.00	FORM	-7.27	535.99

H.I. = 543.24

W110.00	N86.00	Sub.	8.24 7.27	534.92
	N84.00	FORM	8.32	536.02
	N84.00	Sub	8.35	534.91
W130.00	N86.00	FORM	-7.27	535.99
	N86.00	Sub	-8.38	534.88
	N84.00	FORM	7.29	535.97
	N84.00	Sub	8.48	534.78
W150.00	N86.00	FORM	-7.23	536.03
	N86.00	Sub	-8.33	534.93
	N84.00	FORM	7.24	536.02
	N84.00	Sub	8.26	535.00
W168.42	N86.00	FORM	-7.26	536.00
	N86.00	Sub	-8.39	534.87
	N84.00	FORM	-7.28	535.98
step	N84.00	Sub	-8.36	534.90
W168.42	N86.00	FORM		
"		Sub		
N84.00		FORM		
"		Sub		

H.I. = 543.26

W172.42	N86.00	FORM	-8.58	534.68
	N86.00	Sub	-9.74	533.52
	N84.00	FORM	-8.57	534.69
step	N84.00	Sub	-9.75	533.51
W172.42	N86.00	FORM	-10.61	532.63
"	N86.00	Sub	-11.72	531.54
"	N84.00	FORM	-10.61	532.65
"	N84.00	Sub	-11.70	531.56
W175.42	N86.00	FORM	-10.61	532.65
	N86.00	Sub	-11.70	531.56
	N84.00	FORM	-10.61	532.65
N84.00		Sub	-11.71	532.55

Sept. 24, 1949

LEONARD  
BAKER T + NOTES  
RAVINE, N.C.  
CARYER, R.C.

## LEOLITE CONDUIT FLOOR GRADES

H.I.

B.M. on CONC. + 0.46	529.36	522.90	563.33 E 5.0	-10.60
5119.08 E 1.0	-10.03		W 5.0	-10.62
W 1.0	-10.03	557.08 E 5.0		-10.16
5117.08 E 1.0	-10.04		Q.D.	-10.11
W 1.0	-10.03		W 5.0	-10.16
5119.58 E 5.0	-10.22	547.08 E 5.0		-10.17
W 5.0	-10.23		Q.	-10.11
5109.83 E 5.0	-10.60		W 5.0	-10.17
W 5.0	-10.61	535.58 W 5.0		-10.16
5100.08 E 5.0	-10.39		Q.	-10.11
W 5.0	-10.34		E 5.0	-10.15
587.33 E 5.0	-10.61		PRATING	
W 5.0	-10.60			519.50 -9.88 519.48
578.08 E 5.0	-10.15			
E 0.0	-10.11			
W 5.0	-10.15			
571.18 E 5.0	10.16			
Q.D.	10.11			
W 5.0	-10.16			

H.I. = 529.36

Sept. 26, 49 LEONARD  
 BAKER  
 PAYNE  
 CARVER.

BULGE ON  
 CHECK OF WEST WALL MIXING BASIN

TRANSIT AT 46.00E AND 550.5ELEV.

	Reading		Reading	Elev.	
N65.00	1.02	550.5	1.02	542.5	
N69.00	1.01	550.5	1.03	540.5	
"	0.99	548.5	1.08	538.5	
"	0.97	546.5	N63.00	1.07	550.5
"	0.96	544.5	1.06	548.5	
"	0.98	542.5	1.05	546.5	
"	1.01	540.5	1.05	544.5	
"	1.08	538.5	1.05	542.5	
N67.00	1.02	550.5	1.06	540.5	
	1.01	548.5	1.08	538.5	
	1.00	546.5	N61.20	1.09	550.5
	1.00	544.5	1.09	548.5	
	1.00	542.5	1.09	546.5	
	1.02	540.5	1.08	544.5	
	1.07	538.5	1.07	542.5	
N65.00	1.04	550.5	1.07	540.5	
	1.03	548.5	1.08	538.5	
	1.02	546.5			
	1.02	544.5			

Sept 26, 1949

LEONARD  
BAKER T+Notes  
PAYNE H.C.  
CARVER, R.C.Clear  
Hot.

Sept. 26, 1949

LEONARD  
BAKER T+Notes  
PAYNE H.C.  
CARVER, R.C.

## DRY WELLS: GRADES ON FORMS:

## HEADHOUSE FOOTING CHECK SUBGRADE &amp; FORMS

B.M. ON CONC. SLAB	+ 9.90	H.I. 544.89	534.99	ROD ELEV.	B.M. ON CONC.	+ 4.23	H.I. 542.26	538.03
E 126.42	E 139.75			5.21	539.68			
E 126.42	N 12.36			5.18	539.71	"	N 75.00	
	N 18.03			5.87	539.02			
	N 11.70			5.88	539.01	W 9.08	N 82.58	
E 139.75	N 12.36			5.23	539.66	"	"	
	N 18.03			5.24	539.65	W 9.08	N 75.00	
	N 11.70			5.86	539.03	"	"	
	N 17.37			5.87	539.02	W 5.17	N 75.00	

Sept. 28, 1949

Leonard  
BAKER  
PAYNE  
CARVER

## SETTLING BASINS: SUBGRADE FOR DIVIDING WALL

B.M. ON MIXING BASIN	+ 4.24	H.I. 539.25	534.99	W 8.50	N 75.00
560.0		531.87	4.71 534.54	0.267	W 5.17 N 62.00
580.0		530.57	-4.74 534.51	0.394	" "
					W 8.50 N 62.00
5120.0		527.97	4.71 534.54	0.657	" "
5140.0		526.67	-7.15 532.10	0.543	W 5.17 N 46.75
					" "



## HEADHOUSE FOOTING (Cont)

H.I. = 542.26

W 8.50 N 46.75	S.G. -6.43
" "	FORM -4.75
W 5.17 N 43.25	S.G. -6.51
" "	FORM -4.75
W 8.50 N 43.25	S.G. -6.46
" "	FORM -4.76
W 24.17 N 46.75	S.G. -6.80
" "	FORM -4.76
W 24.17 N 51.75	S.G. -6.83
" "	FORM -4.76
W 29.17 N 51.75	S.G. -6.84
" "	FORM -4.75
W 29.17 N 46.75	S.G. -6.57
" "	FORM 4.75
W 44.58 N 46.75	S.G. -6.45
" "	FORM 4.82
W 24.17 N 43.25	S.G. -6.83
" "	FORM -4.75
W 29.17 N 43.25	S.G. -6.83

## HEADHOUSE FOOTING (Cont)

H.I. = 542.26

W 29.17 N 43.25	FORM -4.75
W 44.58 N 43.25	S.G. -6.45
" "	FORM -4.75
W 48.42 N 43.25	S.G. -6.47
" "	FORM -4.60
W 44.58 N 62.00	S.G. -6.30
" "	FORM -4.76
W 48.42 N 62.00	S.G. -6.28
" "	FORM 4.60
W 44.58 N 76.00	S.G. 9.07
" "	FORM 4.78
W 48.42 N 76.00	S.G. -9.09
" "	FORM -4.59
W 44.58 N 79.00	S.G. 11.04
" "	FORM 7.45
W 48.42 N 79.00	S.G. 11.50
" "	FORM 7.27
W 44.58 N 81.26	S.G. 14.07
" "	FORM 9.80

H.I. = 542.26

W 48.42 N 81.26	S.C. 74.09
	FORM 9.59
W 43.30 N 82.58	S.C. - 11.04
" "	FORM - 8.96
" N 87.08	S.C. 11.13
" "	FORM - 9.00
W 40.88 N 82.58	S.C. 9.76
" "	FORM - 7.29
" N 87.08	S.C. 9.83
" "	FORM - 7.30
W 37.84 N 82.58	S.C. - 6.25
" "	FORM - 4.76
" N 87.08	S.C. - 6.50
" "	FORM - 4.78
W 29.17 N 82.58	S.C. - 6.56
" "	FORM - 4.75
" N 77.58	S.C. - 6.49
" "	FORM - 4.75
W 24.17 N 77.58	S.C. - 6.52

H.I. = 542.26

W 24.17 N 77.58	FORM 4.76
W 24.17 N 82.58	S.C. 6.27
" "	FORM 4.75
" N 87.08	S.C. 6.53
" "	FORM 4.76

Sept. 17, 49

CHECK MIXING BASIN WALLS FOR ELEV			
BM + 7.43	45.55409		546.00
N 53.98 E 90.58	549.00	5.09	549.00
" "	549.00	5.09	549.00
" E 100.58	549.00	5.09	549.00
" "	549.00	5.09	549.00
" E 110.58	549.00	5.09	549.00
" "	549.00	5.10	548.99
" E 120.58	549.00	5.09	549.00
" "	549.00	5.08	549.01
" E 124.58	549.00	5.09	549.00

Sept. 27

 Leonard  
 Baker T & Notes  
 PAUDE H.C.  
 CARVER, RC

MIXING BASIN WALLS		ELEV. TOP OF FORMS	
B.M. on Conc. Curb	GRADE	H.I. ROD	ELEV.
	+4.60	555.10	550.50
E158.58 N53.44	549.00	south -6.10	549.00
" N53.44	549.00	north -6.10	549.00
E166.58 N53.44	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E174.58 N53.44	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E182.58 N53.44	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E192.58 N53.44	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E134.58 N37.79	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E132.58 N37.79	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E140.58 N37.79	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00
E148.58 N37.79	549.00	south -6.10	549.00
" "	549.00	north -6.10	549.00

## MIXING BASINS WALLS (Cont)

		H.I. = 555.10	
E158.58 N37.79	549.00	-6.10	549.00
" "	549.00	-6.10	549.00
Sept. 28, 1949			
B.M. on Conc. Curb	GRADE	H.I. ROD	ELEV.
	+4.60	555.10	550.50
E90.58 N22.14	549.00	south 6.12	548.98 on conc.
" "	549.00	north 6.11	548.99
E98.58 N22.14	549.00	-6.10	549.00
" "	549.00	-6.09	549.01
E106.58 N22.14	549.00	-6.10	549.00
" "	549.00	-6.10	549.00
E124.58 N22.14	549.00	-6.10	549.00
" "	549.00	-6.10	549.00

E97.58 N11.19 550.00

" 56.19 "

E100.58 N11.19 "

" 56.11 "

Sept. 27 '49

Leonard  
Baker X + NOTES  
Payne, H.C.  
Carver, R.C.

## HEADHOUSE CARBONATION: FORM ELEV.

	H.I.		
B.M. on Conc. Conduit. + 4.55	542.58	538.03	
W 17 S 4.50	-3.00	539.58	
N 4.50	-3.01	539.57	
N 0.00	-1.50	541.08	
N 11.00	-1.49	541.09	
S 11.00	-1.50	541.08	
W 27.00 S 4.50	-3.00	539.58	
N 4.50	-3.02	539.56	
N 0.00	-1.50	541.08	
Bot. 14" BEAM 5.00			
N 4.00	-6.77	535.81	
Bot. 14" BEAM 5.00			
S 9.00	-6.75	535.83	
Bot. 14" BEAM			
N 11.00	-6.75	535.83	
Bot 14" BEAM			
S 11.00	-6.75	535.83	
W 40 S 4.50	-3.00	539.58	
N 4.50	-3.00	539.58	
N 0.00	-1.49	541.09	
N 11.00	-1.50	541.08	
S 11.00	-1.49	541.09	

SEPT. 29 '49,

LEONARD  
BAKER  
PAYNE  
CARVER

## CENTER POINTS FOR

## OPENINGS IN ZEOLITE BED WALLS FOR PIPES.

B.M.	6.22	528.12	522.90	ON EDGE CONCRETE.
14" WASTE PIPE	<sup>SIZE</sup> 543.08; 65.08	<sup>STATION.</sup> -3.45	524.67	ELEV.
20" INFLUENT	535.08; 52.08	+1.13	529.25	" "
14" BRINE-RINSE	541.08; 63.08	+3.88	532.00	" "
24" EFFLUENT	538.08; 60.08	+4.13	532.25	" "
4" EJECTOR	547.58; 69.58	+6.88	535.00	" "
2 1/2" HOSE LINE	546.08; 568.08	+9.63	537.75	" "

97 Clear  
Cool

Sept. 28, 1949

Leonard  
Joyne H.C.  
Corner, R.C.  
Baker + Inman  
West Wall  
Filters

CHECK ELEV. FOOTINGS UNDER

H.I. = 541.72

B.M.	on SEWER	M.H.	-7.32	H.I.	541.72	534.40	581.60
V	515.10	E	W181.95	E-18.75	522.97	581.60	581.60
	515.10	W		W18.74	522.93	581.60	581.60
	519.10	E		E-17.04	524.68	581.60	585.88
	519.10	W		W17.06	524.64	581.60	585.88
	523.00	E		E-17.14	524.58	581.60	585.88
	523.00	W		W-17.10	524.62	581.60	585.88
	527.00	E		E-15.13	526.59	581.60	585.88
	527.00	W		W-15.11	526.61	581.60	585.88
	531.00	E		E-15.10	526.62	581.60	585.88
	531.00	W		W-15.12	526.60	581.60	585.88
	537.00	E		E-13.03	528.69	581.60	585.88
	537.00	W		W-13.05	528.67	581.60	585.88
	540.00	E		E-13.02	528.70	581.60	585.88
	540.00	W		W-13.04	528.68	581.60	585.88
	550.00	E		E-11.10	530.62	581.60	585.88
	550.00	W		W-11.09	530.63	581.60	585.88
	560.00	E		E-11.03	532.69	581.60	585.88
	560.00	W		W-11.06	530.66	581.60	585.88
	570.00	E		E-9.23	532.49	581.60	585.88
	570.00	W		W-9.24	532.48	581.60	585.88
	574.60	E		E-9.24	532.48	581.60	585.88
	574.60	W		W-9.23	532.49	581.60	585.88
	577.60	E		E-9.23	532.49	581.60	585.88
	577.60	W		W-9.24	532.48	581.60	585.88
	577.60	E		E-9.21	532.51	581.60	585.88
	577.60	W		W-9.20	532.52	581.60	585.88
	577.60	E		E-9.13	532.59	581.60	585.88
	577.60	W		W-9.14	532.58	581.60	585.88
	577.60	E		E-9.98	531.74	581.60	585.88
	577.60	W		W-9.99	531.78	581.60	585.88
	577.60	E		E-10.01	531.71	581.60	585.88
	577.60	W		W-10.02	531.70	581.60	585.88
	577.60	E		E-12.06	529.66	581.60	585.88
	577.60	W		W-12.06	529.66	581.60	585.88

NOTE: E & W MEAN EAST & WEST EDGE OF FIRM.

581.60

581.60

581.60

585.88

590.78

E-12.04 529.68

W-12.02 529.70

E-14.08 527.64

W-14.07 527.65

Sub G. 15.07 526.65

Oct. 13, 1949

ELEVS TOP OF MIXING BASIN WALL

B.M. + 4.61

H.I. = 551.11

550.50

GRADE

ROD

ELEV

N721	E	47.47	544	N	11.11	544.0	O.K.
"	"	"	544	S	11.11	544.0	O.K.
"	E	57.47	544	N	11.11	544.0	O.K.
"	"	"	544	S	11.11	544.0	O.K.
"	E	67.47	544	N	11.11	544.0	O.K.
"	"	"	544	S	11.11	544.0	O.K.
"	E	77.47	544	N	11.11	544.0	O.K.
"	"	"	544	S	11.11	544.0	O.K.
"	E	90.58	544	N	11.11	544.0	O.K.
"	"	"	544	S	11.11	544.0	O.K.

99 CLEAR  
WARM

OCT. 3, 1949

LEONARD  
BAKER & NOTES  
PAYNE, H.C.  
CARVER, R.C.

HEADHOUSE: FOOTING UNDER WEST WALL

		H.I.		H.I. = 540.74	
B.M. on CONCR. SLAB	+ 2.71	540.74	538.03	N30. W 48.67	528.92 FORM
	GRADE		H.O. ELEV.		
N12.0 W 48.67	526.42	FORM		" "	527.42 Sub GR -13.30 527.44 .02 High
" "	524.92	Sub GR.		" W 44.83	528.75 FORM 8.57 7.17
" W 44.83	526.42	FORM		" "	527.42 Sub GR -13.27 527.47 .05 High
" "	524.92	Sub GR.	13.29 527.45	N30 W 48.67	532.33 FORM -8.43 532.31
N15.0 W 48.67	528.57	FORM		" "	530.83 Sub GR -9.85 530.89 .06 High
" "	527.07	Sub GR.	-13.35 127.39 0.32 High	" W 44.83	532.33 FORM -8.57 532.17
" W 44.83	528.40	FORM		" W 44.83	530.83 Sub GR -9.84 530.90 .07 High
" "	527.07	Sub GR.	13.29 527.45 0.35 High	N33.33 W 48.67	532.33 FORM -8.43 532.31
N 23.17 W 48.67	527.26	Sub GR.	-13.43 527.31 .05 High	" W "	530.83 Sub GR -9.84 530.90
" W 44.83	527.26	Sub GR.	-13.35 527.39 .13 High	" W 44.83	532.33 FORM -8.57 532.17
" W 48.67	528.76	FORM		" "	530.83 Sub GR -9.79 530.95
" W 44.83	528.59	FORM		N33.33 W 48.67	535.00 FORM -5.74 535.00
N 23.17 W 48.67	526.92	Sub GR.	-13.86 526.88 O.K.	" "	533.50 Sub GR -7.64 533.10
" W 44.83	526.92	Sub GR.	-13.88 526.86 O.K.	" W 44.83	535.00 FORM -6.90 534.84
N 26.50 W 48.67	528.84	FORM		N33.33 "	533.50 Sub GR -7.78 532.96
" "	527.00	Sub GR.	-13.46 527.34 O.K.	N37.33 W 48.67	535.00 FORM -5.74 535.00
" "	527.00	Sub GR.	-13.86 526.88 O.K.	" "	533.50 Sub GR 7.68 533.06
" W 44.83	528.07	FORM		" W 44.83	535.00 FORM -5.90 534.84
" "	527.00	Sub GR.	-13.37 527.37 O.K.	" "	533.50 Sub GR -7.71 533.03
" "	527.00	Sub GR.	-13.80 526.94 O.K.		

100

101

CLEAR  
WARMSEPT  
OCT 3, 1910LEONARD  
BAKER  
PAYNE  
CARYER

102

## HEADHOUSE FOOTING CONT. H.I. = 540.74

## HEAD FOOTINGS UNDER HEADHOUSE

		GRADE	FORM	ROO ELEV.				
N 37.33	W 48.67	537.67		-3.10 537.64	+ 3.93	T 541.96	BM	538.03
"	"	536.17	Sub GR.	-5.94 534.80	N 45.0 E 7.0	536.17	5.87	536.09
"	W 44.83	537.50	FORM	-3.26 537.48			5.84	536.12
"	"	536.17	Sub GR.	-5.94 534.78			5.91	536.05
N 43.25	W 48.67	537.67	FORM	-3.08 537.66	N 25 E 7.0	536.17	5.96	536.00
"	"	536.17	Sub GR.	-4.95 535.79			5.96	536.00
"	W 44.83	537.50	FORM	-3.23 537.51			5.84	536.12
"	"	536.17	Sub GR.	-5.07 535.67			5.86	536.10
N 43.25	W 48.67	537.67	FORM	-3.08 537.66	N 25 E 27	536.17	5.92	536.04
"	"	536.00	Sub GR.	-4.95 535.79			5.89	536.07
"	W 44.83	537.50	FORM	-3.23 537.51			5.92	536.04
"	"	536.00	Sub GR.	-5.07 535.67			5.87	536.09
N 46.75	W 48.67	537.67	FORM	-3.07 537.67	N 45 E 27	536.17	5.79	536.17
"	W 48.67	536.17	Sub GR.	-4.91 535.83			5.89	536.12
"	W 44.83	537.50	FORM	-3.25 537.49			5.90	536.16
"	"	536.17	Sub GR.	-4.99 535.75			5.93	536.13
					N 65 E 27	536.17	5.94	536.02
							5.89	536.07
							5.89	536.07
							5.98	535.99

		T 541.86		CHECK TOP OF MIXING BASIN WALL			
N 65	E 7.0	536.17	578 536.18	+ 8.44	T 555.10	546.66	
			5.86 536.10	N 15.28	E 124.58	549.00	6.09
			5.86 536.10		E 134.58		6.10
			5.86 536.10		E 144.58		6.09
N 85	E 7	536.17	5.95 536.01		E 158.58		6.10
			6.01 535.95	N 16.36	E 124.58		6.11
			5.95 536.01		E 134.58		6.09
			5.95 536.01		E 144.58		6.10
N 71.53	W 23.24	FORM	4.91 537.55		E 158.58		6.10
		SUB. G.	6.55 535.41	WALK-WAY NORTH SIDE BASIN			
		FORM	4.52 537.44	T 555.10			
		SUB. G.	6.62 535.34	N 66.33	E 158.58	CURB 550.50	4.61
N 58.54	W 30.17	{ FORM	4.94 537.52		E 168.58		4.61
		{ SUB. G.	6.99 535.47		E 178.58		4.61
		{ FORM	4.50 537.46		E 188.58		4.61
		{ SUB. G.	6.92 535.54		E 192.58		4.61
				N 70.33	E 158.58		4.61
					E 168.58		4.61
					E 178.58		4.61
					E 188.58		4.61
					E 192.58		4.61



105

T 555.10

N 66.83 E 158.58 599.96 5.14

E 168.58 5.14

E 178.58 5.15

E 188.58 5.14

E 192.58 5.14  
4.60

N 69.83 E 158.58 550.00

E 168.58

E 178.58

E 188.58

E 192.58

Cloudy

Cold

OCT 6, 1949

LEONARD

BAKER

PAYNE

CARYER

106

CHECK SOUTH WALL MIXING BASIN (TOP)

+ 8.52 T 555.18 546.66

S 154.17 E 192.58 550.50 4.68 550.50

E 197.08 4.68 550.50

E 205.08 4.67 550.51

E 215.08 4.68 550.50

E 225.08 4.69 550.49

E 232.08 4.68 550.50

E 240.08 4.68 550.50

E 244.58 4.68 550.50

S 150.17 E 244.58 4.69

E 240.08 4.68

S 147.25 E 240.08 4.68

E 232.08 4.68

S 150.17 E 232.08 4.71

E 215.08 4.70

E 205.08 4.66

S 147.25 E 205.08 4.68

E 197.08 4.68

S 150.17 E 197.08 4.66

T 555.18

S150.17 E192.58

550.50

4.68

CHECK FLOOR

S154.17 E192.58

5.49

197.08

5.96

205.08

6.02

5.99

5.95

215.08

5.95

225.08

5.95

5.93

232.08

6.02

240.08

6.01

5.92

244.08

5.94

S150.17 E244.08

5.77

E240.08

5.77

5.84

S147.25 E240.08

5.69

E232.08

5.69

S150.17 E232.08

5.86

5.77

E215.08

5.79

E205.08

5.74

5.84

S147.25 E205.08

6.70

E197.08

5.69

T 555.18

S150.17 E197.08

5.84

5.68

E192.58

5.77

109

AUG 7, 1949

LEONARD  
BAKER  
PAYNE  
CARVER

## CHECK TOPS OF FOOTING HEADHOUSE

+2.66	540.65		537.99
N15 W44.83	528.40	12.27	528.38
N23.17	528.59	12.09	528.56
N26.50	528.67	12.00	528.65
N30	528.75	11.96	528.69
N23.17 W8.5	535.25	4.76	535.89
W12.5	"	7.68	532.97
W12.5	533.00	7.69	532.96
W14.33	"	7.68	532.97
W14.33	530.75	9.93	530.72
W39.00	"	9.92	530.73
W39.00	528.59	12.09	529.56
W48.67	"	12.07	528.58
N26.50 W39.00	528.67	12.00	528.65
W48.67	"	12.02	528.63
W24.17 N25.33	532.42	8.21	532.44
N27.33	535.00	5.68	534.97
N28.30	"		

110

## CHECK TOP OF WALL MIXING BASIN

+6.18	552.84	546.66
N	E129.58	
	E139.58	
	E149.58	
	E158.58	
N	E129.58	
	139.58	
	149.58	
	158.58	

Oct 10, 1949  
Leonard Clear  
Palce (Worm)  
Payne  
Carver

FOOTING AND SLAB.  
NEXT TO S. END SETTLING  
BASIN.

+4.46

539.45

BM 534.99

S 142.50 E 48.08

535.00

4.45 - 535.00

E 68.08

535.00

4.46 534.99

E 72.08

535.00

4.45 535.00

E 90.58

535.00

4.45 535.00

S 145.42 E 48.08

535.03

4.42 535.03

E 68.08

535.03

4.41 535.04

E 72.08

535.03

4.42 535.03

E 90.58

535.03

4.42 535.03

LEONARD  
BAKER  
PAYNE  
CARVER

CHECK TOP OF WALL WAY BASINS BETWEEN 1 & 2

BM + 6.18

N 552.84

546.66

E 216.58

N 66.33

550.50

2.35

550.49

N 56.33

2.32

550.52

N 46.33

2.33

550.51

N 37.79

2.34

550.50

E 218.14 N 66.33

549.50

3.32

549.52

N 56.33

3.33

549.51

N 46.33

3.33

549.51

N 37.79

3.35

549.49

E 218.97 N 66.33

3.32

549.52

N 56.33

3.32

549.52

N 46.33

3.33

549.51

N 37.79

3.38

549.46

E 220.58 N 66.33

550.50

2.35

550.49

N 56.33

2.33

550.51

N 46.33

2.32

550.52

N 37.33

2.32

550.52

CHECK BM

-6.18

546.66

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OCT 13, 1949

LEONARD  
BAKER  
PAYNE  
CARYER

## CHECK NORTH WALK WAY MIXING BASIN

BM 8.34	∓ 555.00	546.66
N 70.33 E 220.58	550.50	4.49 550.51
E 230.58		4.50 550.50
E 244.58		4.50 550.50
N 69.83 E 220.58	550.00	5.00 550.00
E 230.58		4.99 550.01
E 244.58		5.00 550.00
N 66.83 E 220.58	549.96	5.04 549.96
E 230.58		5.05 549.95
E 244.58		5.03 549.97
N 66.33 E 220.58	550.50	4.49 550.51
E 230.58		4.51 550.49
E 244.58		4.50 550.50
CHECK BM		-8.34 546.66

OCT 13, 1949

LEONARD  
BAKER  
PAYNE  
CARYER

114

## WEST FOOTING OF NORTH FILTER BEDS

BM + 5.34	∓ 543.90	538.56
N 180.92 N 12	538.04	5.86 538.04
N 22		5.86 538.04
N 32		5.85 538.05
N 42		5.86 538.04
N 52		5.84 538.06
N 62		5.85 538.05
N 72		5.85 538.05
N 85.50		5.86 538.04
CHECK BM		+5.34 538.56

## CHECK FOOTING UNDER SOUTH WALK SETT. BASIN

BM + 9.12	∓ 539.43	530.31
S 143.42 E 90.58	535.00	4.43 535.00
E 100.58		4.43 535.00
E 110.58		4.43 535.00
E 124.58		4.43 535.00
S 145.42 E 90.58		4.43 535.00
E 100.58		4.42 535.01
E 110.58		4.43 535.00
E 124.58		4.43 535.00

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OCT 13, 1949

LEONARD  
BAKER  
PAYNE  
CARVER

CHECK RAILS IN S.W. CORNER SETT. BASIN

BM + 9.12	T 539.43	530.31
E 52.58 S 101.17	535.00	4.42 535.01
S 111.17		4.43 535.00
S 121.17		4.43 535.00
S 131.17		4.43 535.00
S 143.42		4.44 534.99
E 60.58 S 101.17		4.43 535.00
111.17		4.43 535.00
121.17		4.42 535.01
131.17		4.43 535.00
143.42		4.46 534.97
E 69.58 E 101.17		4.43 535.00
111.17		4.43 535.00
121.17		4.43 535.00
131.17		4.43 535.00
143.42		4.44 534.99

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RAILS CONT. T 539.43

E 77.58 S 101.17	4.44 534.99
111.17	4.43 535.00
121.17	4.43 535.00
131.17	4.43 535.00
143.42	4.45 534.98
E 86.58 S 101.17	4.42 535.01
111.17	4.43 535.00
121.17	4.43 535.00
131.17	4.45 534.98
143.42	4.47 534.96

117 Clear  
HOT

Oct. 13, 1949

Leonard  
Baker & NOTES  
PAYNE H.C.  
CARVER, R.C.

118

CHECK ELEV. WEST WALL WALK WAY

CHECK ELEV. CONT.

B.B.M. + 4.61				H.I. = 555.11				H.I. = 555.11			
		GRADE									
E E W	N 29.80	550.50	-4.61	550.50	OK	E	510.25	550.50	-4.61	550.50	OK
E	"	550.50	-4.61	550.50	OK	E	"	550.50	-4.61	550.50	OK
E	"	550.00	-5.11	550.00	OK	E	"	550.00	-5.11	550.00	OK
E	"	549.96	-5.15	549.96	OK	E	"	549.96	-5.15	549.96	OK
E	"	550.50	-4.61	550.50	OK	E	"	550.50	-4.61	550.50	OK
E E	"	550.50	-4.61	550.50	OK	E	"	550.50	-4.61	550.50	OK
E	N 19.80	550.50	-4.61	550.50	OK	E	515.17	550.50	-4.61	550.50	OK
E	"	550.50	-4.61	550.50	OK			550.50	-4.61	550.50	OK
E	"	550.00	-5.11	550.00	OK			550.00	-5.11	550.00	OK
E	"	549.96	-5.15	549.96	OK			549.96	-5.15	549.96	OK
E E	"	550.50	-4.61	550.50	OK			550.50	-4.61	550.50	OK
E	"	550.50	-4.61	550.50	OK			550.50	-4.61	550.50	OK
E	N 10.25	550.50	-4.61	550.50	OK						
E	"	550.50	-4.61	550.50	OK						
E	"	550.00	-5.11	550.00	OK						
E	"	549.96	-5.15	549.96	OK						
E	"	550.50	-4.61	550.50	OK						
E	"	550.50	-4.61	550.50	OK						

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OCT. 14, 1949

LEONARD  
BAKER T & NOTES  
PAYNE, H.C.  
CARVER, R.O.

## CHECK ELEVS. OF MIXING BASIN WALL

B.M. + 8.46	H.I. = 558.12	546.66		
	GRADE	ROD	ELEV.	
N 22.68 E 244.58	549.00 N	-6.11	549.01	
" "	549.00 S	-6.11	549.01	
" E 254.58	549.00 N	-6.11	549.01	
" "	549.00 S	-6.11	549.01	
" E 264.58	549.00 N	-6.10	549.02	
" "	549.00 S	-6.10	549.02	
" E 274.58	549.00 N	-6.11	549.01	
" "	549.00 S	-6.11	549.01	
" E 278.58	549.00 N	-6.10	549.02	
" "	549.00 S	-6.11	549.01	
N 53.98 E 244.58	549.00 N	6.12	549.00	
" "	549.00 S	6.11	549.01	
" E 254.58	549.00 N	6.12	549.00	
" "	549.00 S	6.12	549.00	
" E 264.58	549.00 N	6.11	549.01	
" "	549.00 S	6.11	549.01	
" E 278.58	549.00 N	6.12	549.00	
" "	549.00 S	6.12	549.00	

Clear  
Coal

OCT. 14, 1949

LEONARD  
BAKER T & NOTES 120  
PAYNE H.C.  
CARVER, R.O.

## CHECK ELEVS. OF EAST FILTER WALL FORM

B.M. + 8.80	H.I. = 546.83	538.03		
	GRADE	ROD	ELEV.	
S 48.25 E 470.8	539.00	-7.79	539.04	.04 High
" E 48.08	539.00	-7.78	539.05	.05 High
S 58.25 E 470.8	539.00	-7.76	539.07	.07 High
" E 48.08	539.00	-7.78	539.05	.05 High
S 68.25 E 470.8	539.00	-7.80	539.03	.03 High
" E 48.08	539.00	-7.78	539.05	.05 High
S 78.25 E 470.8	539.00	-7.77	539.06	.06 High
" E 48.08	539.00	-7.80	539.03	.03 High
S 84.50 E 470.8	539.00	-7.80	539.03	.03 High
" E 48.08	539.00	-7.78	539.05	.05 High
CHECK B.M.		-8.80	538.03	= 538.03



121 Clear  
HOTSept 30, 1949 LEONARD  
BAKER & NOTES  
PAYNE, H.C.  
CARVER, R.C.

122

## GRADES ON SETTLING BASIN RAILS

B.M. ON Con. Slab.	+4.43	H.I. = 539.43	534.99
	GRADE	ROD	ELEV.
N 7.21 E 128.58	535.00	-4.42	535.00
E 137.58	535.00	-4.42	535.00
E 145.58	535.00	-4.42	535.00
E 154.58	535.00	-4.41	535.01
S 3.21 E 128.58	535.00	-4.41	535.01
E 137.58	535.00	-4.42	535.00
E 145.58	535.00	-4.43	534.99
E 154.58	535.00	-4.42	535.00
S 13.21 E 128.58	535.00	-4.42	535.00
E 137.58	535.00	-4.42	535.00
E 145.58	535.00	-4.42	535.00
E 154.58	535.00	-4.42	535.00
S 23.21 E 128.58	535.00	-4.42	535.00
E 137.58	535.00	-4.42	535.00
E 145.58	535.00	-4.42	535.00
E 154.58	535.00	-4.42	535.00

## GRADES ON RAILS Cont.

		H.I. = 539.43	
	GRADE	ROD	ELEV.
S 33.0 E 145.58	535.00	-4.42	535.00
" E 154.58	535.00	-4.42	535.00
S 43.00 E 128.58	535.00	-4.42	535.00
E 137.58	535.00	-4.42	535.00
E 145.58	535.00	-4.42	535.00
E 154.58	535.00	-4.42	535.00
S 58.17 E 128.58	535.00	-4.42	535.00
E 137.58	535.00	-4.42	535.00
E 145.58	535.00	-4.42	535.00
E 154.58	535.00	-4.42	535.00

Clear  
WARM

Sept. 30, 1949

LEONARD  
BAKER & NOTES  
PAYNE, H.C.  
CARVER, R.C.CHECK MIXING BASIN WALL  
FOR GRADE

B.M. ON Con. CURB	+4.67	H.I. = 555.17	550.50
	GRADE	ROD	
N 37.79 E 158.58 N	549.00	-6.17	549.00
" " S	549.00	-6.17	549.00
" E 168.58 N	549.00	-6.17	549.00
" " S	549.00	-6.17	549.00

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## MIXING BASIN WALL Cont

		H.I. = 555.17		
		GRADE	ROD	ELEV
N 37.79	E 178.58 N	549.00	-6.17	549.00
"	" S	549.00	-6.17	549.00
"	E 192.58 N	549.00	-6.17	549.00
"	" S	549.00	-6.17	549.00

CLEAR  
HOT

Sept. 30, 49

LEONARD  
BAKER T. NOTES  
PAYNE M.C.  
CARVER R.C.

## CHECK ELEV. TOP OF MIXING BASIN WALL FORM

		H.I.		
B.M. on SLAB		GRADE	ROD	ELEV.
	+ 4.43	539.42		534.99
N 7.21	E 90.58 N	544.00	+4.59	544.01
"	E 90.58 S	544.00	+4.59	544.01
"	E 100.58 N	544.00	+4.59	544.01
"	" S	544.00	+4.58	544.00
"	E 190.58 N	544.00	+4.58	544.00
"	" S	544.00	+4.59	544.01
"	E 124.58 N	544.00	+4.59	544.01
"	" S	544.00	+4.59	544.01

CLEAR  
WARM

Oct. 6, 1949

LEONARD  
BAKER T. NOTES/24  
PAYNE M.C.  
CARVER R.C.

## CHECK ELEV. TOP OF MIXING BASIN WALL FORM

		H.I.		
B.M. on Slab.		GRADE	ROD	ELEV.
	+ 5.16	540.15		534.99
N. 7.21	E 124.58 N	544.0	+3.85	544.00
"	" S	544.0	+3.85	544.00
"	E 134.58 N	544.0	+3.85	544.00
"	" S	544.0	+3.86	544.01
"	E 144.58 N	544.0	+3.86	544.01
"	" S	544.0	+3.86	544.01
"	E 158.58 N	544.0	+3.85	544.00
"	" S	544.0	+3.85	544.00

Oct. 27, 1949

## SET BOLTS IN FORM OF WASH

## WATER PUMP ROOM

		H.I.		
B.M.		GRADE	ROD	ELEV.
	+ 3.94	541.93		537.99
1st Set		533.24	-8.67	533.24
2nd Set		532.18	-9.75	532.18

125 cool  
wet

Oct. 17, 1949 Leonard  
Baker II + Notes  
Payne H.C.  
Carver R.C.

126

CHECK ELEV'S RAILS AND FORMS

	H.I.	GRADE	ROD	ELEV
B.M. on Conc. + 4.39	539.38			534.99
E 94.58 N 7.21		535.00	-4.38	535.00
" S 2.79		535.00	-4.38	535.00
" S 12.79		535.00	-4.38	535.00
" S 22.79		535.00	-4.38	535.00
" S 32.79		535.00	-4.38	535.00
" S 42.79		535.00	-4.38	535.00
" S 58.17		535.00	-4.36	535.00
E 103.58 N 7.21		535.00	4.39	534.99
" S 2.79		535.00	-4.38	535.00
" S 12.79		535.00	-4.38	535.00
" S 22.79		535.00	-4.37	535.01
" S 32.79		535.00	-4.37	535.01
" S 42.79		535.00	-4.37	535.01
E 111.58 N 7.21		535.00	-4.38	535.00
S 2.79		535.00	-4.38	535.00
S 12.79		535.00	-4.37	535.01
S 22.79		535.00	-4.38	535.00

RAILS (Cont)

	GRADE	ROD	ELEV.
E 111.58 S 32.79	535.00	-4.38	535.00
" S 42.79	535.00	-4.38	535.00
" S 58.17	535.00	-4.38	535.00
E 120.58 N 7.21	535.00	-4.39	534.99
" S 2.79	535.00	-4.38	535.00
" S 12.79	535.00	-4.37	535.01
" S 22.79	535.00	-4.38	535.00
" S 32.79	535.00	-4.37	535.01
" S 42.79	535.00	-4.37	535.01
" S 58.17	535.00	-4.37	535.01

OCT. 26, 1949

SET WALL BRACKETS, PIPE CALL

B.M. 49.08	H.I.	550.55	541.47
CENTER LINE BRACKET #1 N 11.0 W 134.83			
	GRADE	ROD	ELEV.
	546.00	-4.55	546.00
CENTER LINE BRACKET #2 N 11.0 W 136.17			
	GRADE		ELEV.
	530.33	-20.22	530.33
CK B.M.		-9.08	541.47 = 541.47

127

OCT. 18, 1949

LEONARD  
BAKER & NOTES  
PAYNE, NC  
CARVER, RC.Cool  
cloudy

OCT. 18, 1949

LEONARD  
BAKER & NOTES  
PAYNE, NC  
CARVER, RC.

## GRADES FOR ELEC. CONDUIT.

B.M.	+ 2.56	H.I. 541.12	538.56	
		GRADE	ROD	ELEV. CUTS
0+00	(4)	533.48		
0+15		532.79	-5.90	535.22 C-2.43
0+30		532.70	6.89	534.23 C-2.13
0+48.7		531.24	7.84	533.28 C-2.04
0+59.2		531.19	6.79	534.33 C-3.14

OCT. 17, 1949

## GRADES FOR ELEC. CONDUIT

B.M.	+ 4.50	H.I. 543.06	538.56	
		GRADE	ROD	ELEV. CUT
W295.18	N 98.33	(4) 533.29	-9.63	533.43 C-0.14
"	N 114.33	533.39	-6.52	536.54 C-3.15
"	N 136.88	* Pt. 533.48	-7.11	535.95 C-2.47
0+20		533.58	-6.50	536.56 C-2.98
0+42.98		533.69	-6.34	536.72 C-3.03

## GRADES FOR ELEC. CONDUIT AND LIGHT STANDARD

B.M.	+ 4.02	H.I. 531.16	527.14	
		GRADE	ROD	ELEV. CUT
0+00	(6)	525.80	-2.88	528.28 C-2.48
0+25		524.68	-2.92	528.24 C-3.56
0+50		523.57	-3.65	527.51 C-3.94
0+75		522.45	-4.68	526.48 C-4.03
1+00		521.34	-6.10	525.06 C-3.72
1+25		520.22	-7.99	523.17 C-2.95
SUMP		1+41.20	519.50	-8.68 522.48 C-2.98
2 PT. STAND	40' 48" LT.	1+51.20	519.50	-9.07 522.09 C-2.59
2 PT. LIGHT STAND	90° RT.	1+74.04	519.50	-9.13 522.03 C-2.53

129 Cool cloudy

Oct. 18, 1949

LEONARD  
BAKERT & NOTES  
PAYNE H.C.  
CARVER R.C.

CHECK GRADES ON FORMS & RAILS SETTLING

B.M. on Conc.	+4.37	539.36	534.99
GRADE	535.00	535.00	ELEV.
E 94.58 S 101.17	535.00	4.35	
" S 111.17	535.00	4.36	
" S 121.17	535.00	4.36	
" S 131.17	535.00	4.35	
" S 143.42	535.00	4.35	
E 103.58 S 101.17	535.00	4.36	
" S 111.17	535.00	4.35	
" S 121.17	535.00	4.36	
" S 131.17	535.00	4.35	
" S 143.42	535.00	4.36	
E 111.58 S 101.17	535.00	4.36	
" S 111.17	535.00	4.36	
" S 121.17	535.00	4.36	
" S 131.17	535.00	4.37	
" S 143.42	535.00	4.36	
E 120.58 S 101.17	535.00	4.35	
" S 111.17	535.00	4.36	
" S 121.17	535.00	4.36	
CHECK B.M.		4.37 = 434.99	

HAVE TO CHECK OUR LEVEL USED LARRY FRANKS LEVEL - R.B.

+30

GRADE	ROD	ELEV.
E 120.58 S 131.17	535.00	-4.36
" S 143.42	535.00	-4.36
Clear Warm	Oct. 25, 1949	BAKER, C.P. PAYNE H.C. CARVER R.C.
CHECK ELEV. OF WALL FORMS, MIXING BASIN H.I.		
B.M. + 6.21	552.87	546.66
N 22.68 E 219.58	549.00	-3.87 549.00
" E 229.58	549.00	-3.88 548.99
" E 239.58	549.00	-3.87 549.00
" E 244.58	549.00	-3.87 549.00
N 22.68 E 192.58	549.00	-3.87 549.00
" E 202.58	549.00	3.87 549.00
" E 212.58	549.00	3.87 549.00
" E 217.58	549.00	3.87 549.00
CK B.M.	-6.21	546.66 = 546.66

131 Cool clear

Oct. 19, 1949

Leonard  
Baker + NOTES  
Payne, H.C.  
Carver, R.C.

OCT 19, 1949

132

CHECK ELEV. SLUDGE COLLECTOR END

CHECK WALK MIXING BASIN

B.M. on Man. + 168. 539.27 537.59

BM 5 + 8.43, T 555.09 546.66

5145.43 E 309.58 534.00 5.23

N 22.68 E 278.58 549.00

" E 359.58 534.00 5.25

E 289.58

" E 349.58 534.00 5.21

E 298.58

" E 339.58 534.00 5.27

E 308.58

" E 329.58 534.00 5.30

E 312.58

319.58 5.27

CHECK NORTH WALK WAY MIXING BASIN

309.58 5.27

N 69.50 E 278.58 549.17

299.58 5.30

289.58 5.90 549.19

289.58 5.25

298.58 5.90 549.19

279.58 5.30

308.58 5.91 549.18

269.58 5.27

312.58 5.91 549.18

259.58 5.29

241.51 5.30

Cold  
133 Clear

Oct. 20, 1919

LEONARD  
BAKER & NOTES  
TRAVIS  
CARVER, JR.

134

GAS LINE ELEV. TO TOP OF PIPE

	H.I.	
B.M. +3.24	549.92	546.66
Beginn of LINE		
W 77. N 200.0		
W 50		
W 0		
E 50		
CK B.M.		
B.M. + 358	<sup>H.I.</sup> 550.24	546.66
E 100		
E 150		
E 200		
E 250		
E 300		
E 325		
E 350		
E 365		
E 400		
T.P. + 5.27	<sup>H.I.</sup> 550.58	4.93 545.31

GAS LINE CONT

	H.I.	
	550.58	
E 450		544.78
E 500		
E 550		
E 600		
4 PT. E 655 = 0.00 AH.		
T.B.M. + 9.70	<sup>H.I.</sup> 558.86	549.16
0+27		
0+35		
<sup>105</sup> 0+55		
<sup>113.5</sup> 0+63.5		
1+30		
T.B.M. + 9.75	<sup>H.I.</sup> 567.90	558.15
1+76.5		
1+86		
2+31		
2+58.5		
T.P. + 4.14	<sup>H.I.</sup> 571.27	567.13
3+21.01 4 pt.		

Cont Page 135 BOT

135

Oct. 20 1949 LEONARD  
BAKER NOTES  
PAYNE H.E. II  
CARVER R.C.

## SETTLING BASIN - CHECK FORMS FOR ELEV.

B.M. on CONC.	+ 4.53	539.52	534.99
		GRADE	ROD ELEV
S142.50 E124.58		535.00	4.52 535.00
S145.42 "		535.00	4.52 535.00
S142.50 E134.58		535.00	4.51 535.01
S145.42 "		535.00	4.51 535.01
S142.50 E144.58		535.00	4.51 535.01
S145.42 E144.58		535.00	4.51 535.01
S142.50 E154.58		535.00	4.51 535.01
S145.42 "		535.00	4.51 535.01
S142.50 E138.58		535.00	4.51 535.01
S145.42 "		535.00	4.51 535.01

## GAS LINE Cont. FROM PAGE 134

		571.27	
T.P.	+ 0.20	558.19	-13.28 <del>567.99</del> 557.99
			-11.62 546.57

Clear  
cool

Oct. 20 1949

LEONARD  
BAKER  
PAYNE  
CARVER

136

## CHECK SUBGRAVE UNDER COLL. IN SETT. BASIN

B.M. on CONC.	+ 4.53	539.52	534.99
		ROD	ELEV.
S68.92 E 99.08		-6.34	
S68.92 E 116.08		-6.49	
S68.92 E 133.08		-7.01	
S68.92 E 150.08			



137

OCT 20, 1949

LEONARD  
BAKER  
PAYNE  
CARVER

139

CHECK TOP OF HEADHOUSE COND.

T 546.88

B	BM+5.14	T 546.88	541.74	N 8.50 E 16.00	539.58	7.32
S	S 12 E 16.00	541.75	5.12 541.76	E 27.00 N 9.0	535.83	11.03
S	E 26.00		5.12 "	N 11		11.05
S	E 36.00		5.12 "	E 26.83 S 9.0		11.05
S	E 41.83		5.12 "	S 11		11.06
S	E 41.83 S 12		5.12 541.76	CENTER SLUICE GATE ANCHOR BOLT WELLS		
S	N 0.00		5.12 "	T 546.88		
S	N 12		5.12 "	N 9.50 E 37.83	540.08	6.77
S	N 12 E 36.00		5.12 541.76	S 9.50 E 37.83		6.79
S	E 26.00		5.12 "	STEEL PLATES OVER OPENINGS		
S	E 16.00		5.12 "	E 23.50 N 10		5.04
	58.50 E 40.83	539.58	7.32	N 8		5.04
	E 30.83		7.30	E 26.50 N 10		5.03
	E 20.83		7.28	N 8		5.04
	E 10.83		7.32	E 16.00 E 8		5.05
	E 16.00		7.32	S 10		5.05
	N 8.50 E 40.83		7.30	E 19.00 S 8		5.04
	E 30.83		7.30	S 10		5.04
	20.83		7.30			
	10.83		7.32			

139

OCT 21, 1949

LEONARD  
BAKER  
PAYNE  
CARVER

HEAD HOUSE FOOTING WALL

BM + A.30 T 542.30 538.00

W 46.50 H 11 537.50 4.80 537.50

H 15 4.80 537.50

H 19 4.80 537.50

CLEAR  
HOT

OCT 25, 1949

BAKER  
PAYNE  
CARVER

CHECK ELEV'S WALL FORMS MIXING BASIN

B.M. +1.78 N.I. 539.37 537.59

N 7.21 E 192.58 544.00 -4.63 544.00

" E 202.58 544.00 -4.63 544.00

" E 212.58 544.00 -4.63 544.00

" E 227.58 544.00 -4.63 544.00

" E 239.58 544.00 -4.63 544.00

" E 229.58 544.00 -4.63 544.00

" E 239.58 544.00 -4.63 544.00

" E 244.58 544.00 -4.63 544.00

CK B.M. -1.78 537.59

OCT 21, 1949

LEONARD  
BAKER  
PAYNE  
CARVER

140

CHECK ELEV'S ON NORTH WALL FILTERS

BM + 10.42 T 548.98 538.56

N 84.50

W 113.34 6.30 548.68

123.34 .30 548.68

133.34 .30 548.68

143.34 .30 548.68

153.34 .29 548.69

163.34 .32 548.66

173.34 .32 548.66

181.75 .31 548.67

KEY

N 89.50 W 113.34 546.00 3.00 545.98

123.34 2.98 546.00

133.34 2.97 546.01

143.34 3.00 545.98

153.34 3.01 545.97

163.34 3.02 545.96

173.34 3.00 545.98

181.75 3.00 545.98

N 85.50 W 113.34 .30 548.68

123.34 .30 548.68

CONT.

Σ 548.98

N 85.50	W 133.34	.30	548.68
	143.34	.29	548.69
	153.34	.30	548.68
	163.34	.30	548.68
	173.34	.30	548.68
	181.75	.29	548.69

TOP OF BLOCKOUTS

N 84.50	W 128.17	4.03	544.95
	W 132.67	4.04	544.94
N 84.50	W 161.34	4.04	544.94
	W 165.84	4.04	544.94

FOOTING UNDER WASH WATER FLUME

BIM + 5.72	Σ 544.28	—	538.56
N	W 87.58	5.98	6.01
		5.96	6.01
	100.83	5.97	6.04
		5.95	6.07
	114.42	6.00	6.10
		6.00	6.13
	130.00	6.03	6.13
		6.01	6.13
	145.25	6.10	6.13
		6.07	6.13
	160.50	6.07	6.13
		6.08	6.20
	175.75	6.08	6.20
		SUB. GR.	
N	W 87.58	9.96	
	100.83	9.25	
	114.42	9.25	
	130.00	9.11	
	145.25	9.20	
	160.50	9.25	
	175.75		

CHECK KEY WAY

143 CLEAR  
HOT

OCT. 25, 1949

BORER TYNOTES  
PAYNE H.C.  
CARVER, R.B.

144

CHECK ELEV. OF WALKWAY } BETWEEN  
MIXING BASIN 142

H.I. = 522.87

B.M. on Conc. +6.21	H.I. 522.87	546.66	E 220.58 N 07.33	550.50	2.37	550.50
E 216.58 N 37.33	550.50	-2.37	" S 15.17	550.50	2.37	550.50
" N 27.33	550.50	-2.37	CK B.M.		6.21	546.66 = 546.66
" N 17.33	550.50	-2.37				
" N 07.33	550.50	-2.37				
S 15.17	550.50	2.37				
E 218.14 N 37.33	549.50	3.37				
" N 27.33	549.50	3.37				
" N 17.33	549.50	3.37				
" N 07.33	549.50	3.37				
" S 15.17	549.50	3.37				
E 218.97 N 37.33	549.50	3.37				
" N 27.33	549.50	3.37				
" N 17.33	549.50	3.37				
" N 07.33	549.50	3.37				
" S 15.17	549.50	3.37				
E 220.58 N 37.33	550.50	2.37				
" N 27.33	550.50	2.37				
" N 17.33	550.50	2.37				

145 CLEAR  
HOT

OCT. 26, 1949

LEONARD  
BAKER T & NOTES  
PAYNE H.C.  
CARVER, RC

## CHECK ELEV'S RAILS, SETTLING BASIN

B.M.	H.I.	GRADE	ROD	ELEV
+9.64	539.95			530.31
E128.58	S101.17	535.00	-4.95	535.00
"	S111.17	535.00	-4.95	535.00
"	S121.17	535.00	-4.95	535.00
"	S131.17	535.00	-4.95	535.00
"	S143.42	535.00	-4.95	535.00
E137.58	S101.17	535.00	-4.96	534.99
"	S111.17	535.00	-4.95	535.00
"	S121.17	535.00	-4.95	535.01
"	S131.17	535.00	-4.95	535.00
"	S143.42	535.00	-4.95	535.00
E145.58	S101.17	535.00	-4.95	535.00
"	S111.17	535.00	-4.95	535.00
"	S121.17	535.00	-4.95	535.00
"	S131.17	535.00	-4.95	535.00
"	S143.42	535.00	-4.95	535.00
E154.58	S101.17	535.00	-4.95	535.00
"	S111.17	535.00	-4.95	535.00
"	S121.17	535.00	-4.95	535.00

146

## RAILS CONT. H.I. = 539.95

	GRADE	ROD	ELEV
E154.58 S121.17	535.00	-4.95	535.00
" S143.42	535.00	-4.95	535.00

CLEAR  
HOT

OCT. 26, 1949

LEONARD  
BAKER T & NOTES  
PAYNE H.C.  
CARVER, R.C.

## CHECK RAIL ELEV'S SECOND DECK

## SETTLING BASIN.

B.M.	H.I.	GRADE	ROD	ELEV.
+4.68	551.34			546.66
E52.58 N2.00	541.17	-10.16		541.18
S18.00	541.17	-10.16		541.18
S15.17	541.17	-10.16		541.18
E53.58 N2.00	541.17	-10.16		541.18
S18.00	541.17	-10.16		541.18
S15.17	541.17	-10.16		541.18
E59.58 N2.00	541.17	-10.17		541.17
S18.00	541.17	-10.17		541.17
S15.17	541.17	-10.17		541.17
E60.58 N2.00	541.17	-10.17		541.17
S18.00	541.17	-10.17		541.17
S15.17	541.17	-10.18		541.16

## CH. RAILS SECOND R. CONT

	H.I. = 551.34		
	GRADE	ROD	ELEV.
E 69.58 N 2.00	541.17	70.18	541.16
" 58.00	541.17	70.17	541.17
" 515.17	541.17	-10.17	541.17
E 70.58 N 2.00	541.17	70.18	541.16
" 58.00	541.17	70.18	541.16
" 515.17	541.17	-10.17	541.17
E 76.58 N 2.00	541.17	70.18	541.16
" 58.00	541.17	-10.18	541.16
" 515.17	541.17	-10.18	541.16
E 77.58 N 2.00	541.17	-10.17	541.17
" 58.00	541.17	70.17	541.17
" 515.17	541.17	70.17	541.17
E 86.58 N 2.00	541.17	70.17	541.17
58.00	541.17	70.16	541.18
515.17	541.17	70.16	541.18
E 87.58 N 2.00	541.17	-10.18	541.18
58.00	541.17	70.17	541.17
515.17	541.7	-10.17	541.17
OK B.M.		-4.08	546.66

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BM'S

MANHOLE SOUTH OF WEST

MON. (386.78) 534.40

EAST MON. (419.85) 537.59

DAM 536.39

FAR EAST MON 519.85

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BASIN 530.31

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ZEOLITE

(ON CURB)  
TRUCK SCALE S.W. CORNER 546.56

TOP OF ZEOLITE CONDUIT  
ABOUT TOS and W5

6.00  
 5.95  
 .05

349.58  
 241.58

581.7  
 10.75  
 68.92

33.17

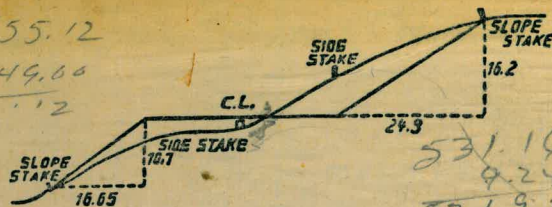
5.98  
 5.96

534.99  
 4.53  
 9.

539.52  
 33.50  
 6.02

# 4.25 34.51 10.75 3  
 # 2 4.54 36.22 12.30  
 # 3 4.66 36.10 12.30  
 # 4 4.66 36.10 12.30  
 34.40  
 6.36  
 40.76  
 30.38

555.12  
 449.66  
 106



531.16  
 9.24  
 521.92

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.  
 SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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