

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Levels.....Survey

Asphalt Plant.....

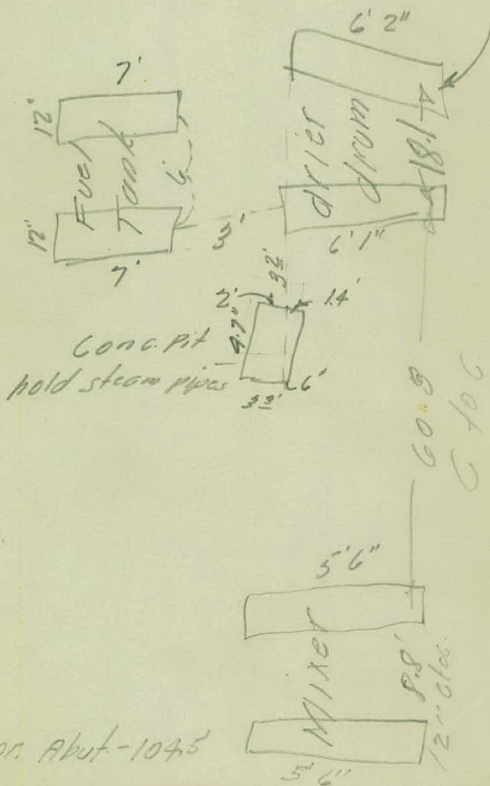
From Co. Rd. "E" To Lexington Ave.

Road Acc't. No.

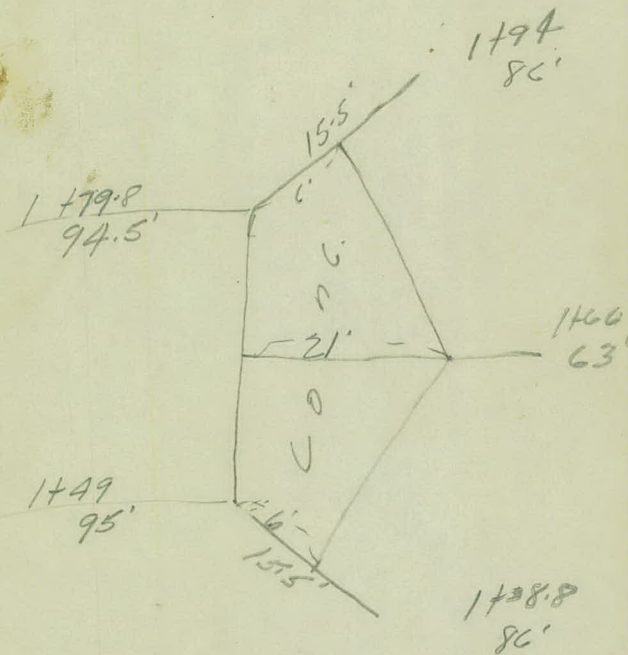
Date Filed. 11-7-45

File.

1464.5
103.5



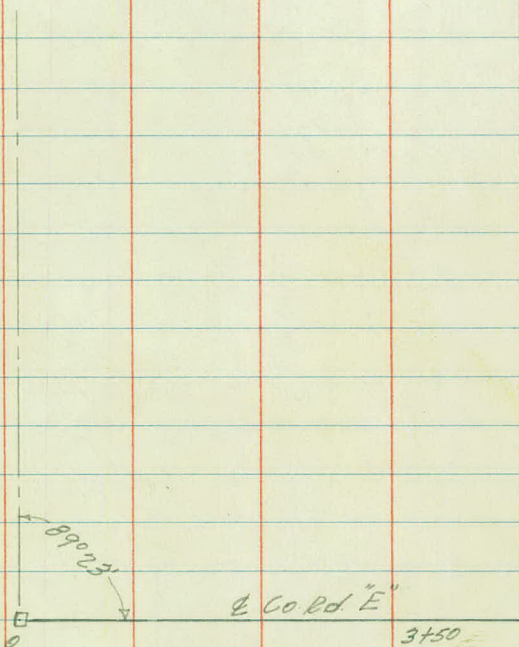
0790-S.W. Cor. Abut. - 104.5'



ASPHALT PLANT

Levels

E Lexington Ave.



11 Pages

1945

(946.31)

43.7

5,6
200

435

57
200

435-

5.8
200

43.4

57
200

8-20-45

K.A.
C.F.
C.N.

Lt.

10

Top Mont & Lexington & Co. Rd. "E"

438	439	441	442	443	444	445	445	446	447	448	449	450	451	453	455	456	458	461	463
55	54	52	51	50	49	48	48	47	46	45	44	43	42	40	38	37	35	3.2	30
190	80	70	60	50	40	30	20	10	100	90	80	70	60	50	40	30	20	10	

436	437	438	440	441	441	441	442	443	445	446	447	449	450	452	454	456	458	461	462
57	56	55	53	52	52	52	51	50	48	47	46	44	43	41	39	37	35	32	31
190	80	70	60	50	40	30	20	10	100	90	80	70	60	50	40	30	20	10	

437	438	439	440	440	440	439	440	441	442	445	445	447	448	451	454	458	462	465	
57	56	55	54	53	53	53	54	53	52	51	48	48	46	45	42	39	35	31	28
90	80	70	60	50	40	30	20	10	100	90	80	70	60	50	40	30	20	10	

438	440	442	442	440	443	443	439	439	440					445	448	449	451	456	463	465
55	53	51	51	53	50	50	54	54	53					48	45	44	42	37	30	28
10	80	70	60	50	40	30	20	10	100					60	50	40	30	20	10	

440	441	441	443	442	442	443	444	444	440					447	449	450	455	463	466	
53	52	52	50	51	51	50	49	49	53					46	44	43	38	30	27	
200	190	80	70	60	50	40	30	20	10					50	40	30	20	10		

442	442	442	443	443	443	444	444	446	443					449	449	453	464	466		
51	51	51	50	50	50	49	49	47	50					44	44	40	29	27		
200	190	80	70	60	50	40	30	20	10					40	30	20	10			

piles

44.9

4.40

Top footing of old drier

stock

444	443	443	445	445	447	448	448	444	442					449	452	455	464	469		
4.9	5.0	50	48	48	46	45	45	49	51					44	41	38	29	25		
190	80	70	60	50	40	30	20	10	100					40	30	20	10			

Sta + π - Elev

949.31'

B.M.

3.57

949.88'

(946.31)'

0+70

0+80

+90

1 +00

+10

Lt.

2

448²

4.49

Boiler room floor

4630

358

Top Conc. Footing of old Mixing Plant

445	446	446	447	447	446	444		450	452	458	466	469
54	53	53	52	52	53	55	stack	49	47	41	33	30
160	50	40	30	20	110	100	Pile	40	30	20	10	

474²

2.46

Top Conc. Footing of New Mixing Plant

448	446	444	445	447	446	441	441	442	443	446	450	453	460	468	471
51	53	55	54	52	53	58	58	57	56	53	49	46	39	31	28
160	150	140	130	120	100	90	80	70	60	50	40	30	20	10	

446	446	446	446	446	446	446	445	442	443	441	443	445	449	454	459	469	472
53	53	53	53	53	53	53	54	57	56	58	54	54	50	45	40	30	27
170	60	50	40	30	120	110	100	90	80	70	60	50	40	30	20	10	

444	446	446	445	444	446	444	445	446	445	444	443	443	445	444	449	455	460	471	474	
55	53	53	54	55	53	55	54	53	54	55	56	56	56	54	55	50	44	39	28	25
120	190	80	70	60	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

443	445	443	443	444	445	444	442	442	442	443	444	446	449	454	462	472	475
56	54	56	56	55	54	55	57	57	57	56	55	53	50	45	37	27	24
170	60	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

Sta + π - Elev.

949.88.

1 +20

+30

+40

+50

+60

B.M. 6.03 952.34

(94631)

1 +50

+60

LT.

4736

2.52

Top of Footing of storage Tanks

44.3	44.4	44.2	44.2	44.3	44.2	44.2	44.2	44.2	44.2	44.2	44.4	44.6	44.9	45.5	45.4	47.3	47.6
56	55	57	57	56	57	57	57	57	57	57	55	53	50	44	45	26	2.9
170	60	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

44.4	44.2	44.2	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.3	44.5	44.7	45.1	45.7	46.5	47.4	47.7
55	57	57	58	58	57	57	57	57	57	56	54	52	48	42	34	25	22
170	160	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

44.3	44.1	44.1	44.1	44.1	44.2	44.4	44.2	44.2	44.3	44.4	44.5	44.8	45.1	45.7	46.6	47.5	47.8
56	58	58	58	58	57	55	57	56	56	55	54	51	48	42	33	24	21
170	160	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

44.7	45.1	45.8	46.7	47.7	47.9
52	48	41	32	22	20
50	40	30	20	10	

44.1	44.7	45.1	45.8	46.8	47.8	48.1
53	52	48	41	31	21	18
60	50	40	30	20	10	

44.4	44.1	44.0	44.0	44.0	44.0
7.9	8.2	8.3	8.3	8.3	8.3
170	160	150	140	130	120

44.7	44.6	44.5	43.9	44.1	44.0	43.9	44.2
7.6	7.7	7.8	8.4	8.2	8.3	8.4	8.1
180	170	60	50	40	30	120	110

Sta	+	π	-	Elev.
		952.34		

1 +70

+80

+90

2

+10

+20

+30

+40

LT

Q

Office
44.6
44.2
44.4
77 77 79 84 85 85 85 86 8.9
175 170 60 50 40 30 20 10 100

44.7
45.3
45.9
46.9
47.8
48.1
76 70 64 54 45 4.2
50 40 30 20 10

44.3
44.3
43.9
43.7
43.8
43.8
43.9
43.9
80 80 84 86 85 85 84 84
170 60 50 40 30 20 110 100

44.6
45.1
46.4
46.9
47.9
48.2
77 72 62 54 44 4.1
50 40 30 20 10

44.3
43.9
43.6
43.6
43.7
43.8
43.8
43.8
43.9
44.1
44.2
80 84 87 87 86 85 85 85 84
168 160 150 40 30 20 110 100 90 80 70 60 50 40 30 20 10

44.5
44.8
45.3
46.1
47.0
47.8
48.4
75 70 62 53 45 3.9
50 40 30 20 10

Shed
44.0
43.7
43.5
43.4
43.6
43.6
43.6
43.7
43.9
44.1
44.3
44.6
44.9
45.3
44.1
47.0
48.0
48.5
83 86 88 89 87 87 87 87 86 84
172 166 60 50 40 30 20 110 100 90 80 70 60 50 40 30 20 10

43.6
43.3
43.1
43.2
43.4
43.3
43.5
43.6
43.8
44.0
44.2
44.4
44.7
45.2
46.2
47.1
48.1
48.5
87 90 92 90 89 90 88 87 85 83 81 79 76 71 61 52 42 38
167 163 50 40 30 20 110 100 90 80 70 60 50 40 30 20 10

43.8
43.5
43.0
43.1
43.1
43.1
43.4
43.6
43.7
43.8
43.9
44.2
44.6
45.2
46.1
47.1
48.1
48.6
85 88 93 92 92 92 89 87 86 86 84 81 77 71 62 52 42 37
165 160 50 40 30 20 110 100 90 80 70 60 50 40 30 20 10

43.8
43.0
42.8
42.9
43.0
42.9
43.2
43.4
43.5
43.6
43.7
44.0
44.5
45.1
46.0
47.2
48.2
48.6
85 93 95 94 93 94 91 89 88 87 86 83 78 72 63 51 41 37
160 157 150 40 30 120 110 100 90 80 70 60 50 40 30 20 10

Front
43.1
42.8
42.8
42.9
42.8
42.9
43.1
43.4
43.5
43.5
43.6
43.9
44.4
45.1
46.1
47.1
48.2
48.7
92 95 95 94 95 94 92 89 88 88 87 84 79 72 62 50 41 36
160 155 150 40 30 20 110 100 90 80 70 60 50 40 30 20 10

Sta	+	π	-	Elev.
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		952.34		
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2	+50			
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	+60			
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	+70			
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	+80			
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	+90			
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3				
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B.M.				
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	6.00			
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		952.31		
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			6.04	
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				946.30
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				(946.31)
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	+04			
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	+10			
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LT.

42.4	42.7	42.7	42.4	42.5	42.7	43.0	43.2	43.4	43.6	43.9	44.3	44.9	46.0	47.3	48.2	48.7	
94	96	96	97	98	96	93	91	90	89	87	84	80	74	63	50	41	36
156	152	150	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

43.7	43.0	42.3	42.4	42.5	42.8	43.0	43.4	43.4	43.7	44.0	44.3	44.7	46.1	47.4	48.3	48.7
86	93	100	99	97	95	93	89	89	86	83	80	76	62	49	40	36
153	150	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

Approx. 5000

43.7	42.8	42.2	42.3	42.3	42.5	42.7	43.0	43.1	43.4	43.8	44.2	45.3	46.0	47.4	48.2	48.6
86	95	101	100	100	98	96	93	92	89	85	81	77	63	49	41	37
151	148	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

41.5	41.7	41.9	42.1	42.2	42.3	42.5	42.7	42.9	43.3	43.4	43.8	44.3	44.7	46.0	47.3	48.2	48.6
108	106	104	102	101	100	98	96	94	90	89	85	80	76	63	50	41	37
167	160	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

Back-

41.5	41.4	42.0	42.0	42.1	42.2	42.4	42.5	42.7	43.2	43.5	43.7	44.2	44.7	46.1	47.3	48.2	48.6
108	109	103	103	102	101	99	98	96	91	88	86	81	76	62	50	41	37
165	169	50	40	30	120	110	100	90	80	70	60	50	40	30	20	10	

41.7	41.4	41.8	41.9	42.0	42.1	42.4	42.5	42.6	43.2	43.5	43.7	44.1	44.8	46.1	47.4	48.1	48.6
106	109	105	104	103	101	99	98	97	91	88	86	79	75	62	49	42	37
161	160	50	40	30	20	110	100	90	80	70	60	50	40	30	20	10	

1/2 inch
41.81
400
105
161
FL. 12" C.M.
Spillway
41.31
120
110
154

Top-

41.9	41.6	41.7	41.8	42.0	42.2	42.4	42.5	42.7	43.0	43.4	43.6	44.3	44.9	46.1	47.5	48.3	48.6	
104	107	106	105	103	101	99	99	97	96	93	89	87	80	74	62	48	40	37
158	157	150	40	30	20	110	100	90	80	70	60	50	40	30	20	10		

Sta	+	π	-	Elev
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		952.31		
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3	+20			
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	+30			
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	+38			
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	+40			
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	+50			
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	+58			
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B.M.				
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		6.00	946.31	
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LT.

42.1	41.6	41.6	41.7	42.1	42.2	42.4	42.5	42.7	42.8	43.3	43.5	44.1	44.8	46.1	47.4	48.3	48.6
10.2	10.7	10.7	10.6	10.2	10.1	9.9	9.8	9.6	9.5	9.0	8.8	8.2	7.5	6.2	4.9	4.0	3.7
154	153	150	40	30	120	110	100	90	80	70	60	50	40	30	20	10	

42.1	41.6	41.8	42.0	42.2	42.4	42.6	43.7	42.9	43.3	43.7	44.2	45.0	46.1	47.4	48.3	48.6
10.2	10.7	10.5	10.3	10.1	9.9	9.7	9.6	9.4	9.0	8.6	8.1	7.3	6.2	4.9	4.0	3.7
151	150	140	30	20	110	100	90	80	70	60	50	40	30	20	10	

plank

42.2	FL. 12°C.M	Spillway
10.1	40.3	41.1
149	149	145

off

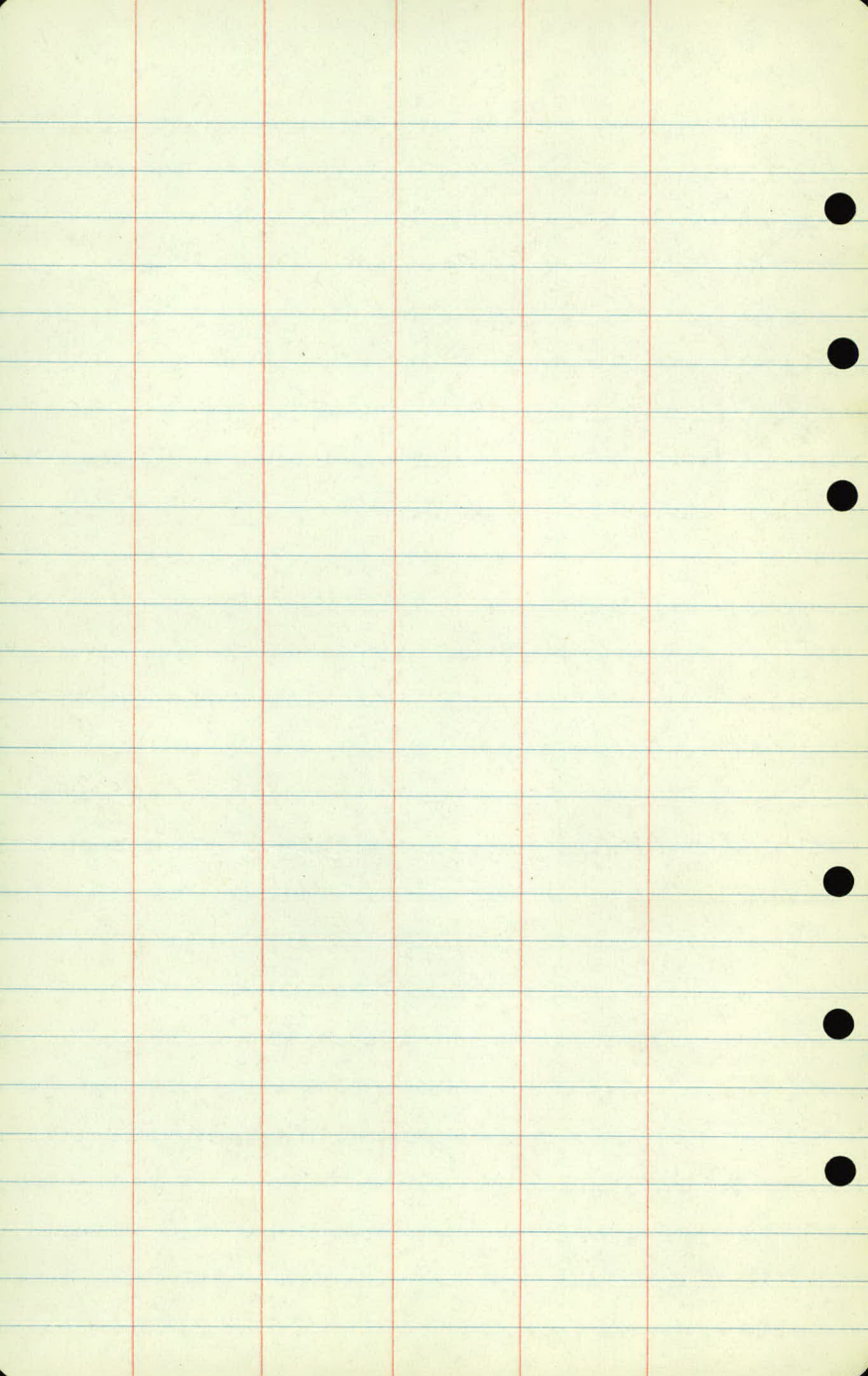
42.2	41.6	41.6	42.0	42.2	42.4	42.6	42.8	43.1	43.2	43.7	44.2	45.0	46.2	47.6	48.3	48.6
10.1	10.7	10.7	10.3	10.1	9.9	9.7	9.5	9.2	8.9	8.6	8.1	7.3	6.1	4.7	4.0	3.7
147	146	140	130	120	110	100	90	80	70	60	50	40	30	20	10	

top

42.4	41.8	42.1	42.0	42.3	42.4	42.7	43.1	43.4	43.6	43.9	44.3	45.1	46.2	47.6	48.3	48.5
9.9	10.5	10.2	10.3	10.0	9.9	9.6	9.2	8.9	8.7	8.4	8.0	7.2	6.0	4.7	4.0	3.8
144	143	140	130	120	110	100	90	80	70	60	50	40	30	20	10	

FL. S. end 24" R.R. Culv.

19.3
179
33.31



Topography.

2

+94- End of Bulkhead - 86'

+119.8- Δ in Bulkhead - 94.5'

+66- End of Bulkhead - 63'

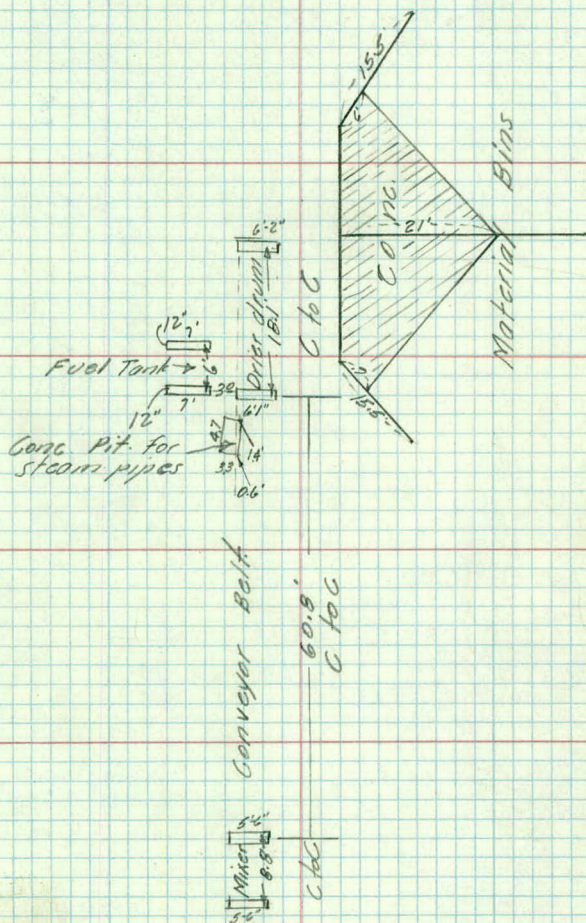
+64.5- Ctr & S end of abut - 103'

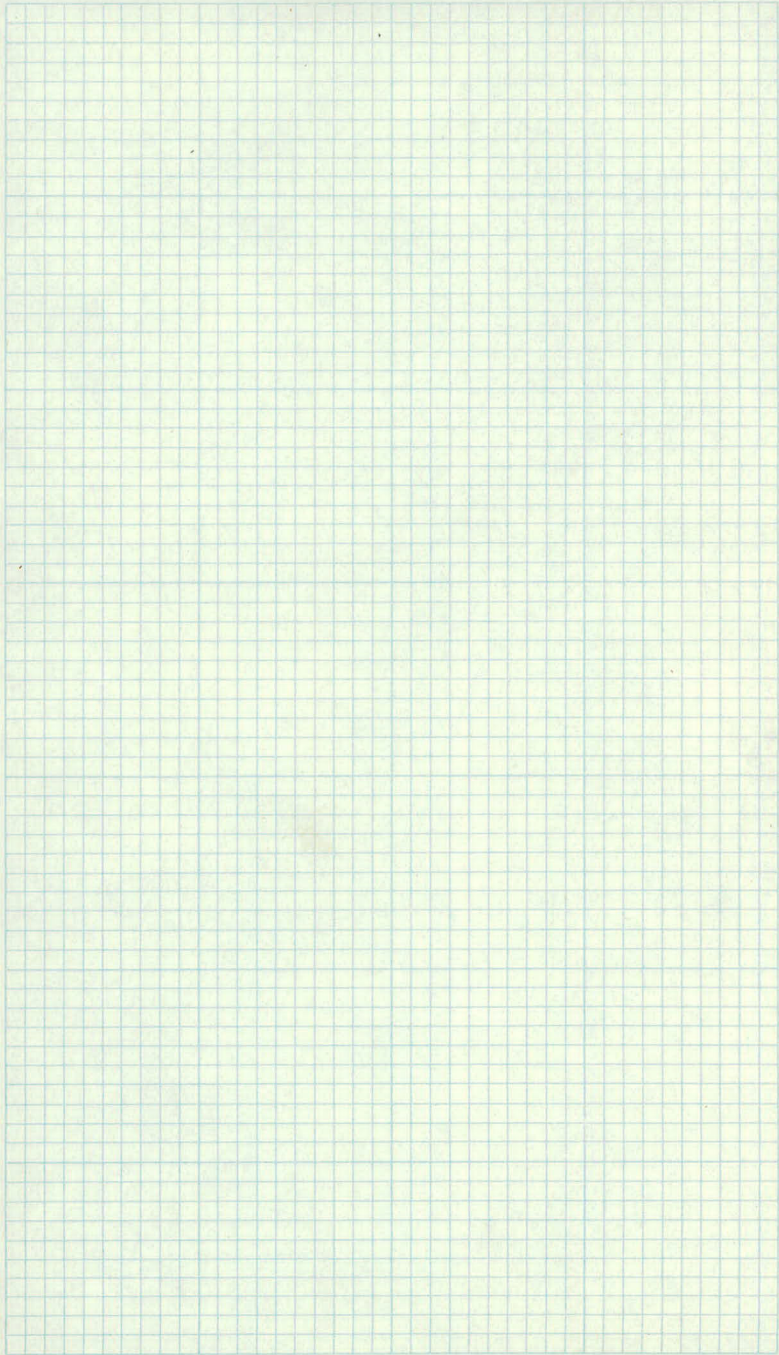
+197- Δ in Bulkhead - 95'

+38.8- End of Bulkhead - 86'

1

+178.5- Ctr & S end of abut - 104.5'





Levels of New Mixing Plant

sta	+	π	-	Elev.
B.M.	2.85	949.16		(946.31)

1.75	47.41
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4.72	44.44
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2.38	46.78
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1.29	47.87
------	-------

0.53	48.63
------	-------

4.70	44.46
------	-------

4.60	44.56
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Top Mant at Lexington & "E"

Top of abut. of mixer

Top of conc steam pipe pit

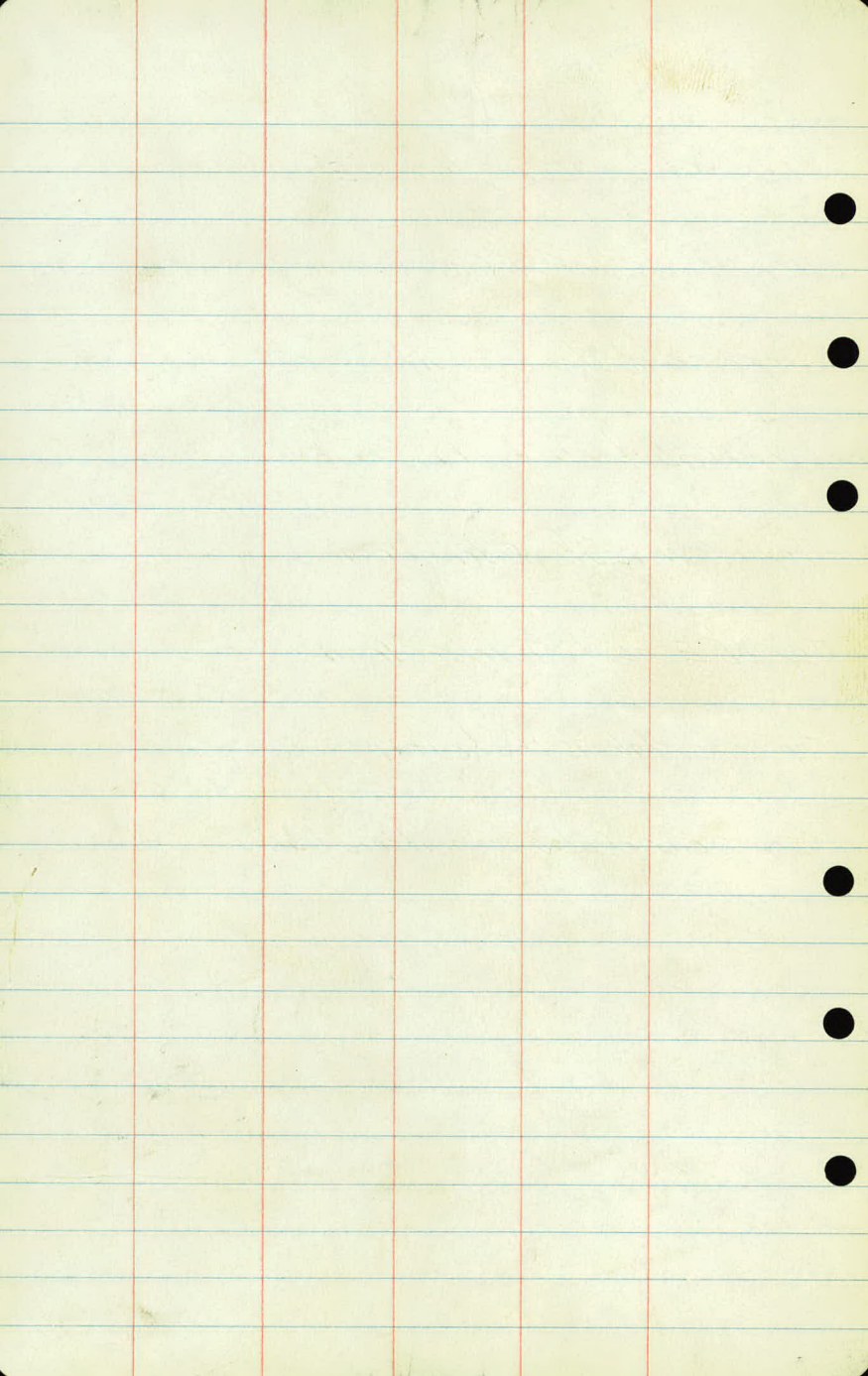
Top of abut. of fuel oil tank.

Top of W abut. of drier drum

Top of E. abut. of drier drum

Top conc. slab 95 ft. sta. 1+49

Top S. end of slab of material bins



X Section

Asphalt Plant

56

+

11

BM

660

952.91

946.31

2+80

+90

+10

3

+10

+20

+30

+40

+50

2A
2

Rt

Top Mon Et Lex -

Top Ballast	44.9	40.2	40.1	38.7	38.2	41.6
	8.4	12.7	12.8	14.2	14.7	11.3
	<u>21.4</u>	<u>200</u>	<u>191</u>	<u>182</u>	<u>177</u>	<u>170</u>

Top Ballast	44.8	39.5	38.9	38.1	38.1
	8.1	13.4	14.0	14.8	14.8
	<u>21.1</u>	<u>197</u>	<u>193</u>	<u>187</u>	<u>175</u>

Top Ballast	44.9	40.4	37.5	37.1
	8.0	12.3	15.4	15.8
	<u>20.8</u>	<u>198</u>	<u>187</u>	<u>173</u>

Ballast	44.9	40.7	37.6	36.4
	8.0	12.2	15.3	16.3
	<u>20.6</u>	<u>193</u>	<u>183</u>	<u>167</u>

Ballast	44.9	40.4	37.2	36.5
	8.0	12.5	15.7	16.4
	<u>20.5</u>	<u>194</u>	<u>183</u>	<u>166</u>

Ballast	43.1	37.5	36.6
	7.8	15.4	16.3
	<u>20.1</u>	<u>187</u>	<u>16.8</u>

Ballast	44.9	36.9	36.5
	8.0	16.0	16.4
	<u>19.5</u>	<u>184</u>	<u>16.2</u>

Ballast	44.9	37.1
	8.0	15.8
	<u>19.5</u>	<u>184</u>

Ballast	36.1
	16.4
	<u>16.4</u>

Sta + A - Elev

952.91

44.8	34.9	35.3
<u>81</u>	<u>18.0</u>	<u>17.6</u>
192	175	155

+60

44.9	35.1
<u>80</u>	<u>178</u>
193	171

+70

45.1	39.1
<u>78</u>	<u>138</u>
190	178

+80

45.1	38.7
<u>78</u>	<u>142</u>
187	174

+90

45.1
<u>78</u>
187

4

+10

+20

+30

[illegible]

Sta	+	π	-	Elev
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		952.91		
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4+40				
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45.5	37.9
<u>74</u>	<u>150</u>
166	145

+50				
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T.P	3.08	949.39	6.60	946.31
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8.2	41.2
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8.0	41.4
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7.9	41.5
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