

Dr. 9 BK. 7

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

_____ Survey

ASPHALT PLANT
Elev. & Swamp Property
From _____ To _____

Road Acc't. No. _____

Date Filed 2-6-59

File Dr. 9 BK 7

Grades
Paving Asphalt Plant

Sta	+	Δ	-	Elev	O Gr Rd
B.M.				946.31	

0+00					450 .
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0+10					4451 .
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0+20					4402 .
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0+30					4353 .
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0+40					4301 .
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0+50					Crat Crd 4296 .
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0+60

0+50

0+60

Grd 2 Grd 3 Grd 4 Grd 5 Grd

Top Men Co Rd "F" & Lexington

45.04

4504 . 4508 . 4512 . 5.38 4516 . 4520 . 5.38

4534

4439 . 4435 . 4441 . ^{cl 15.09} 6.69 4449 . 4453 . ^{cl 4.97} 5.97

4374

4374 . 4362 . 4370 . ^{cl 1.69} 6.80 4382 . 4386 . ^{cl 0.564} 6.64

4309 . 4289 . 4299 . ^{cl 15.51} 7.51 4315 . 4319 . ^{cl 6.31} 7.31

425 . 4216 . 4226 . ^{cl 10.44} 8.24 4248 . 4252 . ^{cl 5.98} 7.98

4206 . 4148 . ^{cl 20} 9.02 4181 .

Lower level

410 q.v 0139 4224 .

hi level

4504 . ⁰¹⁰ 5.46

442 . ⁰¹⁰ 5.98

Grades. along
Curb lowest point

Sta	+	π	-	Elev
	4.19	950.50		946.31

0+00				45.28 .
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+10				44.72 .
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+20				44.10 .
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+25				
-----	--	--	--	--

+30				43.48 .
-----	--	--	--	---------

+40				42.86 .
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+50				42.24 .
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+60				41.62 .
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41.3 .

41.0

6 GrPd 7 GrPd 8 GrPd 9 GrPd 10 GrPd

45.24 .526 45.28, 5.22 46.12 4.38 46.34 . 46.56 .

44.72

44.56 ^{0.10} .524 45.80 .470 45.92 .454 46.03 , 46.14 .

43.88 .662 45.40 5.10 , 45.69 .486 45.72 , 478 .4575 .

43.54 .

45.42 .5.08 45.00 .5.50 45.02 .546 45.04 546 .45.06 .

45.05 .545 44.43 .607 44.45 .605 44.47 .603 44.49 .

44.68 . 44.39 .611 44.43 .607 44.45 .605 44.47 .

44.3 . 44.34 .616 44.38 .612 44.42 .608 44.46 .

Sta

+

Δ

-

Elev

750.50

0+00

+10

+20

+30

+40

+50

+60

11 Grd 12 Grd 13 Grd 14 Grd 15 Grd

4678 . 47.0 . 47.1 . 47.0 . 4637 . 4.13

4625 - 4636 . 4647 . 4601 . 4560 .

4578 . 4581 . 4584 . 4554 . 4528 .

4508 . 4510 . 4521 . 4504 . 4487 .

4451 . 4453 . 4456 . 4452 . 4448 .

445 . 4454 . 4454 . 4446 .

445 . 4450 |

Sta	+	π	-	Elev
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0+00				
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+10				
-----	--	--	--	--

+20				
-----	--	--	--	--

+30				
-----	--	--	--	--

+40				
-----	--	--	--	--

+50				
-----	--	--	--	--

+60				
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16 Gr Rd 17 Gr Rd

4633 . 460 .

45.19 . 45.00 .

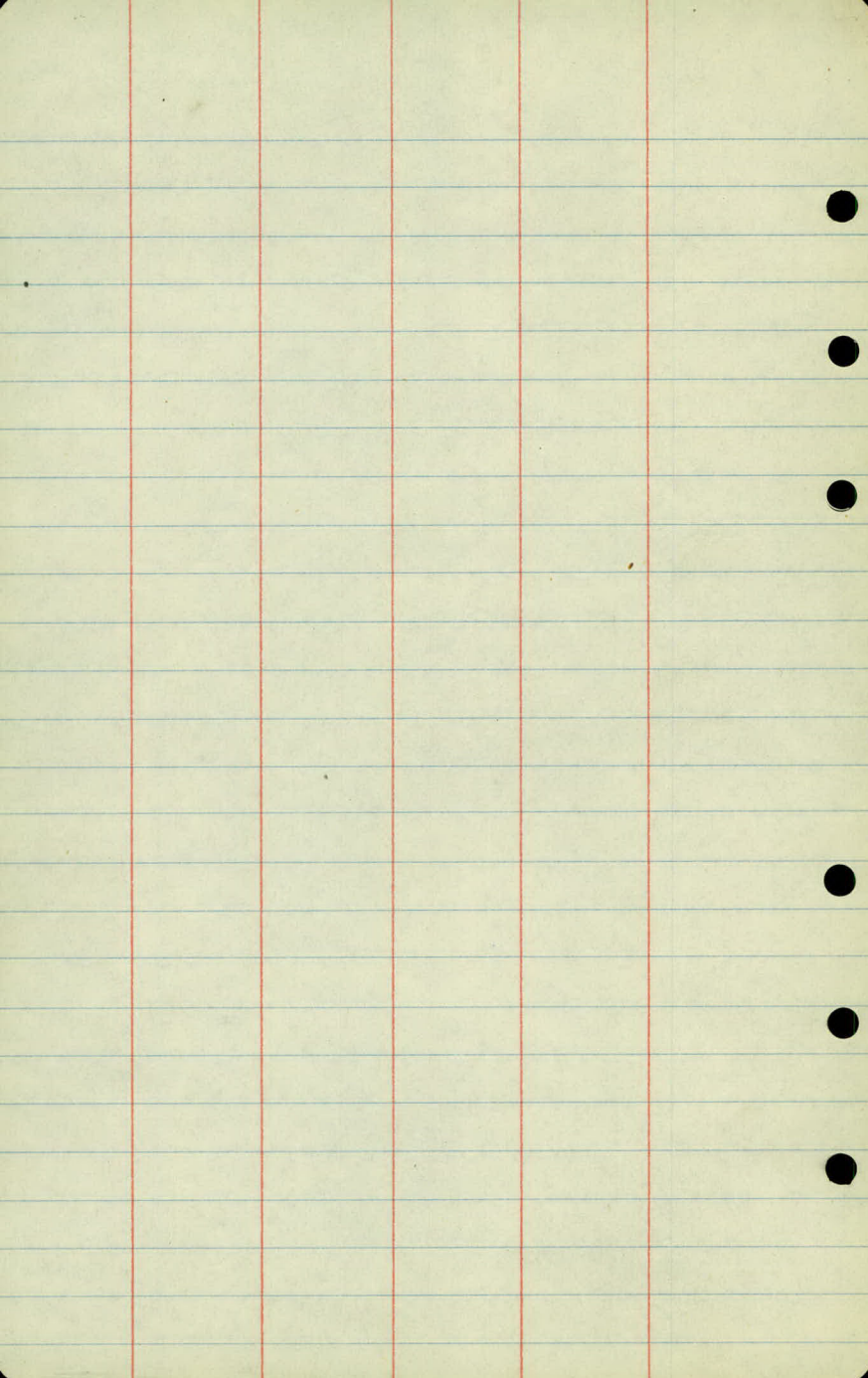
4500 . 447 .

4470 . 4455 .

4444 . 4440 .

4438 . 4430 .

4420 .



Sewer Grades

Asphalt Plant

Sta	f	Δ	-	Elev	
BM	2.94	949.25		946.31	
0+00	3.03	947.43	4.85	944.40	
Top C.B	+00			43.5	
Inv				41.0	
Inv				37.01	
Bottom				35.5	
0+13	M.H.			36.62	12.60
+20				36.55	
				36.50	
+30				36.45	
+40				36.35	
+50				36.25	
1					
+60				36.15	
+70				36.05	
				36.00	

Gr. Rod

Top Man

Top Pier on Shed

12.60

B.T C8.0/

10.93

9.93
C1.8

12.97

11.18

3.18
C8.0

11.43

Sta	+	π	-	Elev
		947.43		
+80				35.95

+82		M.H.		35.93
-----	--	------	--	-------

+90				35.85
-----	--	--	--	-------

1				35.75
---	--	--	--	-------

+10				35.65
-----	--	--	--	-------

+20				35.55
-----	--	--	--	-------

35.50

+30				35.45
-----	--	--	--	-------

+40				35.35
-----	--	--	--	-------

+50				35.25
-----	--	--	--	-------

11.50

13.47

11.68

BT 5.47
C 8.00

B.T

11.93

BT

12.18

BT

5/c + $\bar{\Lambda}$ - E/40
947.43

+60 35.15

+70 35.05

+75 35.00

+80 34.95

+90 34.85

2 34.75

+12 MH 34.63

+20 34.55

+25 34.50

+30 34.45

1243

1268

647 61
380

1280

1293

B.T.

Sta + Δ - Elev

947.43

240

34.35

+50

34.25

+60

34.15

34.15

+70

3
34.05

+75

34.00

+80

33.95

+90

33.85

14.97 ✓

13.18

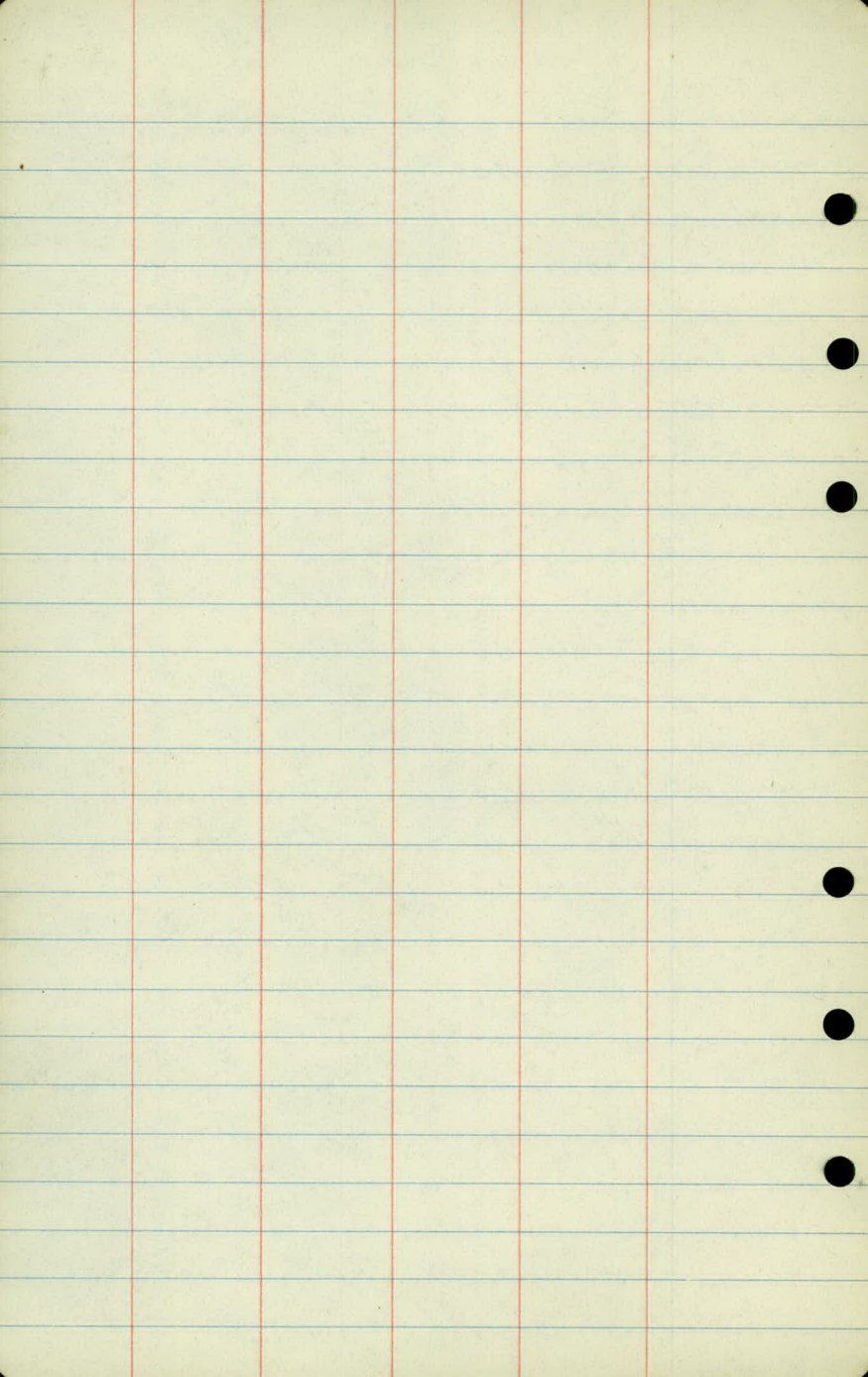
6.97
C 8.0 BT

B.T.G.

15.52 ✓
13.43

722 ✓

13.58



Asphalt Plant

Sta	+	X	-	Elev
B.M	3.36	4967		946.31

0

10

20

30

40

0

1

2

45.0

45.09

45.08

469

4451

4437

4435

ca. 6/47
5.32

4402

4374

4362

ca. 1.5 495
6.05

4353

4309

4289

ca. 1.8/5.0
6.78

4301

425

4215

43

4295

4206

Sta	+	X	-	Elev
	3.36	949 67		946 31

0

10

20

30

40

50

60

386
394

7
950.19
4 950.25

Elev
946.31

4512

507.2

4512

501

10 4441

507

4449

576

51
5

4370

507

43.82

643

4299

507

43.15

7.10

40 4228

507

4248

7.77

5 4148

507

41.81

8.44

41.4

507

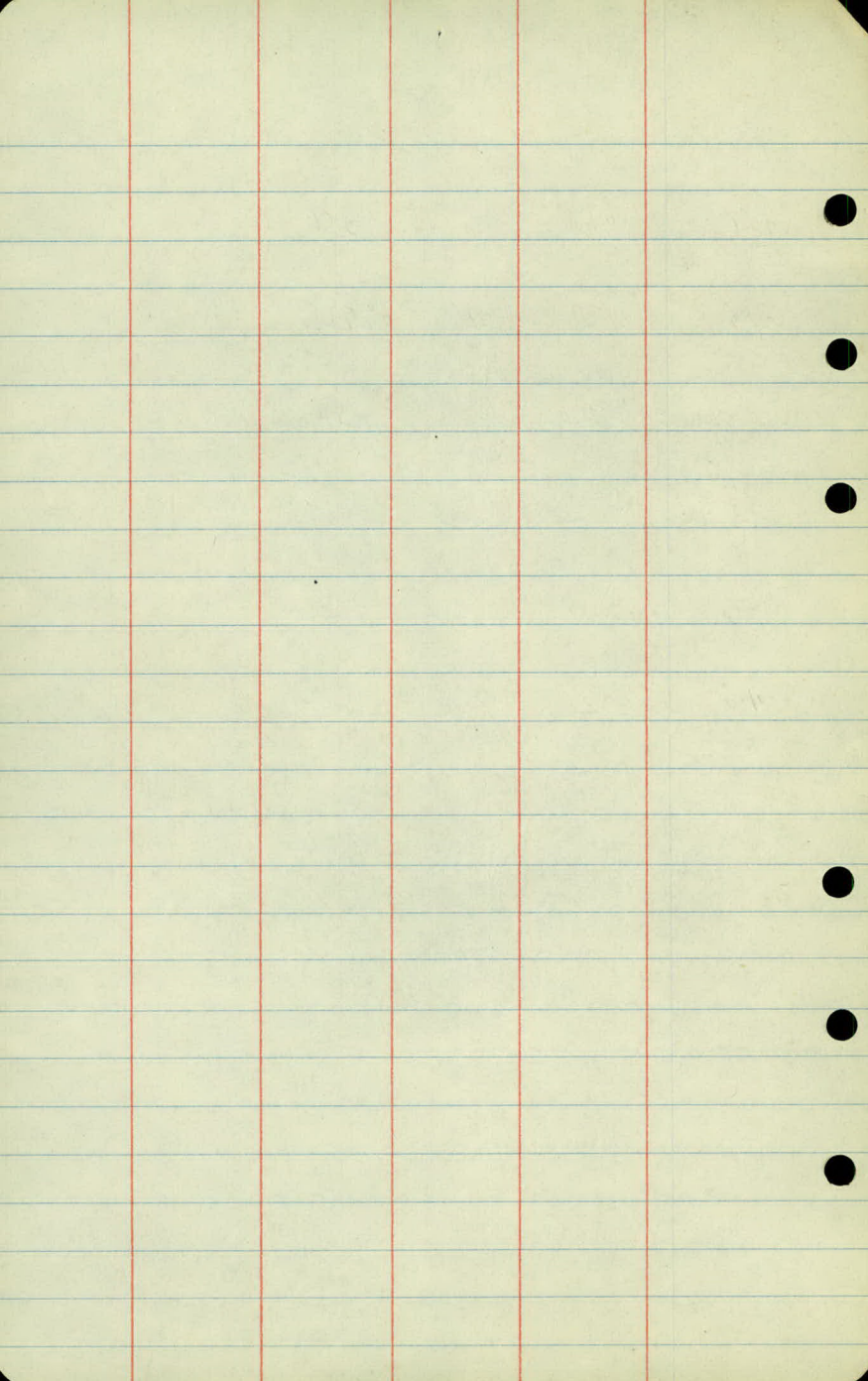
41.3

8.95

21

41.3

9.13



3

4

Top Cont

5

45.12

4.55

45.12

45.1

45.20

4441 ^{c/o} 4.26

5.26

4449

^{4.18}
c/o 5.18

45.39

4370 ^{4.97}
c/o 5.97

4382

^{4.85}
c/o 5.85

45.48

4299 ^{4.68}
c/o 6.68

43.15

^{5.52}
c/o 6.52

45.37

4228 ^{6.39}
c/o 7.39

42.48

^{6.19}
c/o 7.19

45.26

41.48 ^{9.19}
c/o 9.19

41.81

^{5.86}
c/o 7.86

45.15

41.3 ^{9.37}
c/o 8.37

41.3

^{6.37}
c/o 8.37

45.1

Sta	+	Δ	-	Elev	Top Curve
	4.58	950.85		74631	

0+00

45.9

10

45.79

20

45.68

30

45.57

40

45.46

50

45.35

60

45.24

Pave
Grade L

7

8

45.3

45.51

45.89

4.77

45.2

45.39

45.63

4.77

45.1

45.25

45.44

5.20

45.0

45.09

45.20

5.53

44.9

44.94

45.00

5.86

44.6

44.64

44.69

6.19

44.3

44.34

44.38

6.51

Sta	+	π	-	Elev
-----	---	-------	---	------

500	500	101.85		946.31
-----	-----	--------	--	--------

0+00				
------	--	--	--	--

10				
----	--	--	--	--

20				
----	--	--	--	--

30				
----	--	--	--	--

40				
----	--	--	--	--

50				
----	--	--	--	--

60				
----	--	--	--	--

9

10

11

4622 5.52

4656

4678 4.77

4587 5.93

4614

4640 5.15

4563 5.85

4575

4602 5.53

4531 6.17

4543

546

4564 5.21

4506 6.47

4511

5.78

4526 6.29

4474 6.86

4479

6.11

4488 6.07

4442 7.13

4446

6.43

4452 7.05

Sta	t	X	-	Elev
-----	---	---	---	------

0	4.58	950.89		946.31
---	------	--------	--	--------

	524	51.55		
--	-----	-------	--	--

+10

+20

+30

+40

+50

12

13

G.R.

14

470

47.1

3.79

47.0

4636

~~4647~~
4653502
442

4601

4581

~~4584~~
4586

505

4586

4538

4521

568

4584

4495

4482
21

633

4482

4454

4454

Stg

x

Λ

-

Eku

5.24

951.55

94631

4.39

0

10

20

30

40

50

15

16

17

4668

4.88

4633

4600

5.55

4560

5.95

4519

4560

5.95

4538

6.17

4500

4527

6.28

4516

6.39

4470

4494

6.61

4494

5.61

4444

4461

6.94

4450

7.05

4438

4428

7.27

4400

4420

7.35

Sta

+

π

-

Elev

439

950.7°

946.31

13

15

17

47.10

4661

4600

4653

4600

4560

4596

4538

4527

4539

4514

556

4492

4482

4490

580

4461

44

4460

50

4466

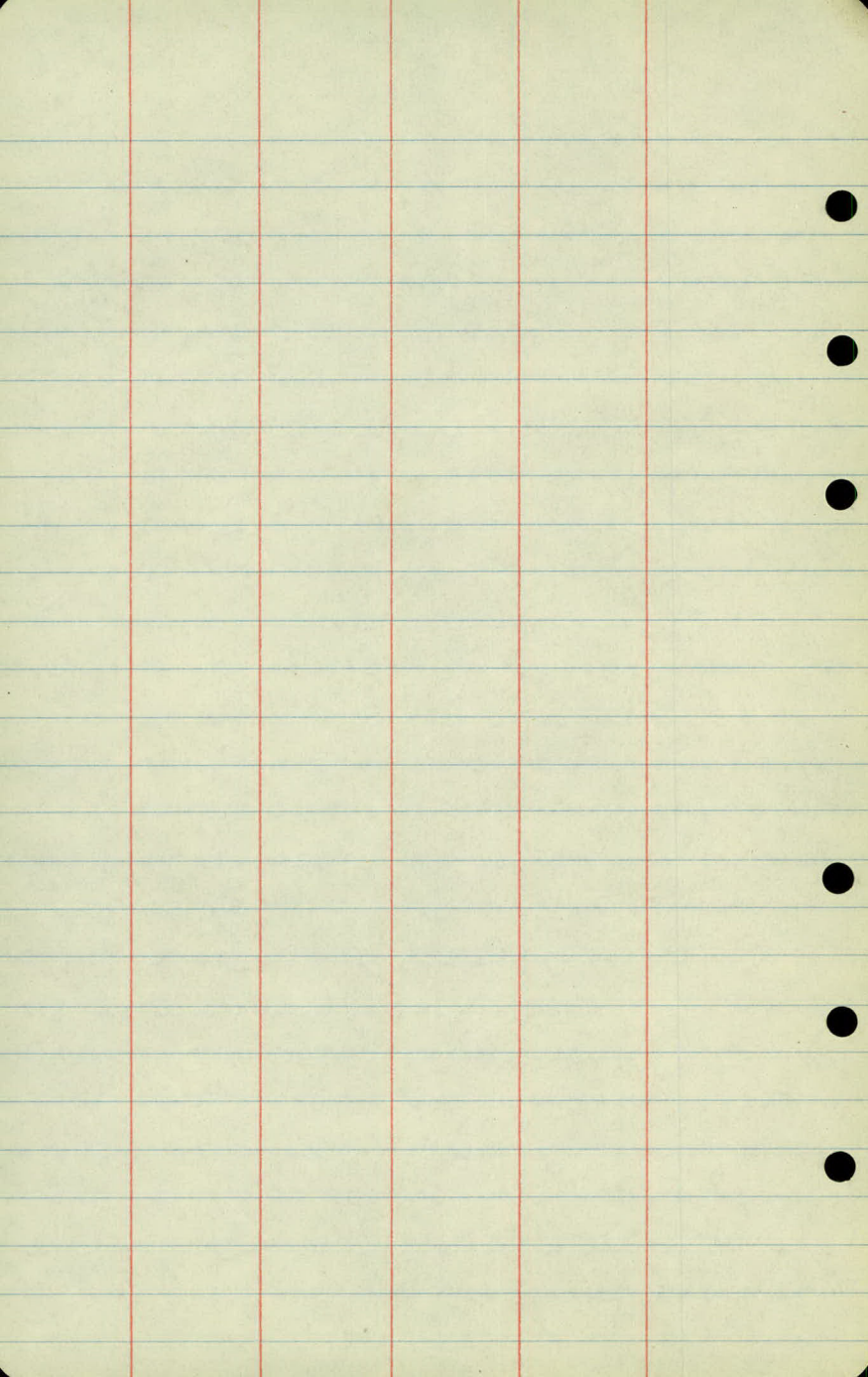
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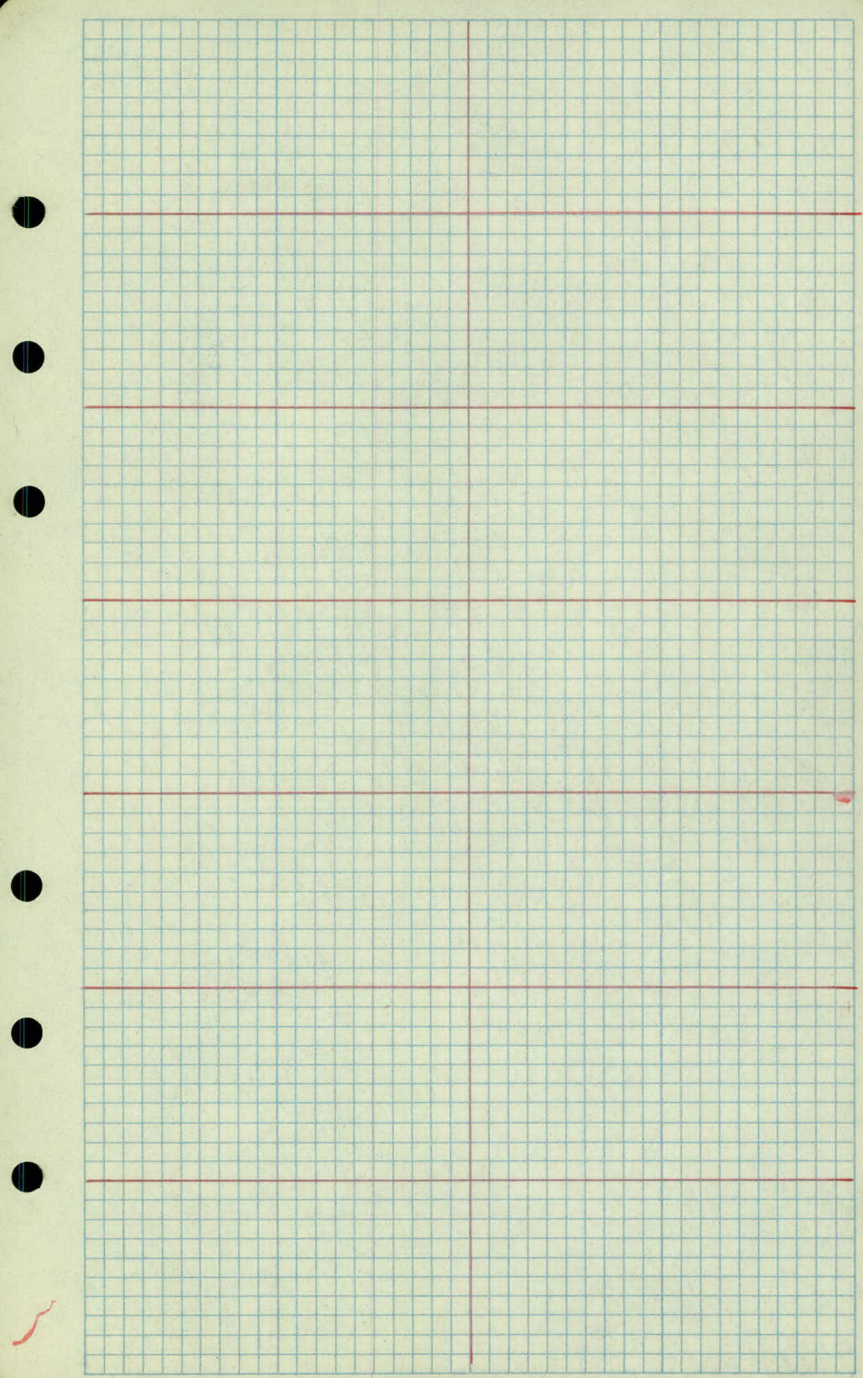
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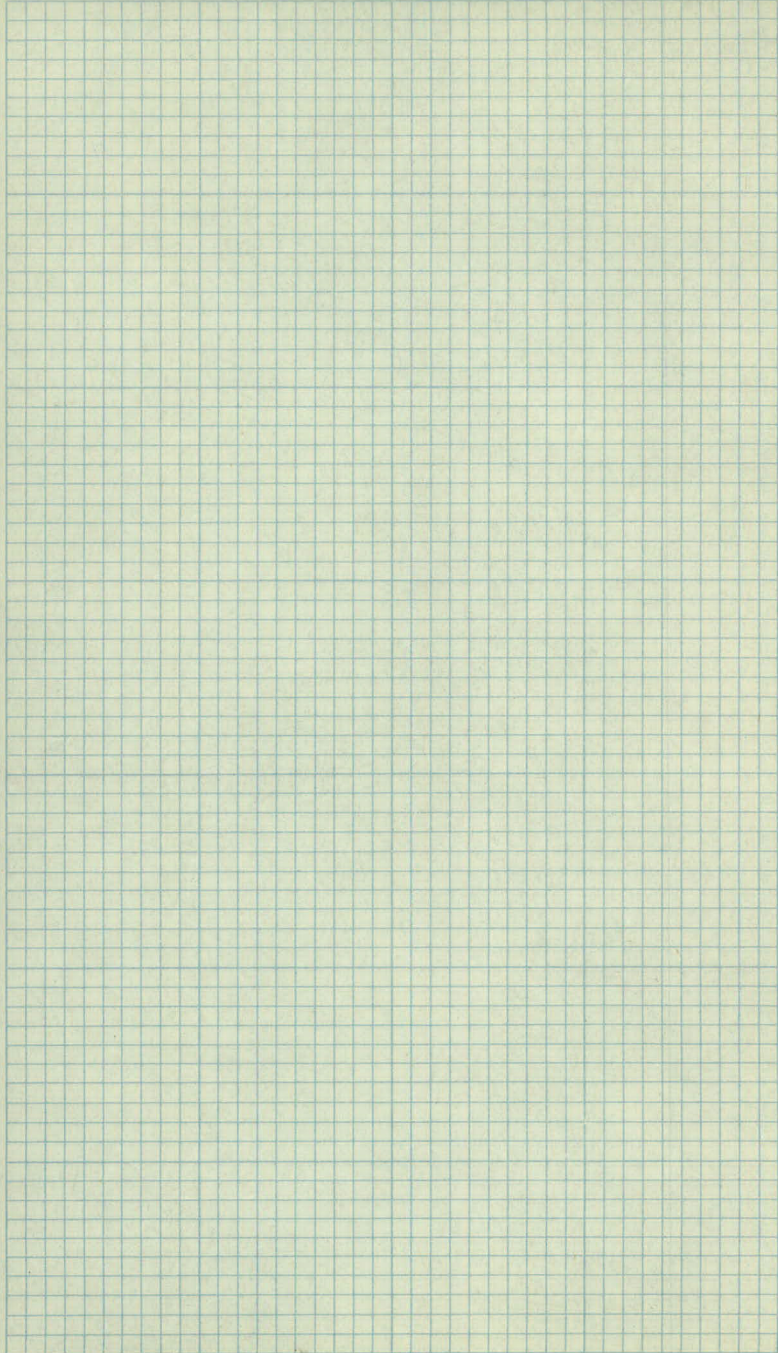
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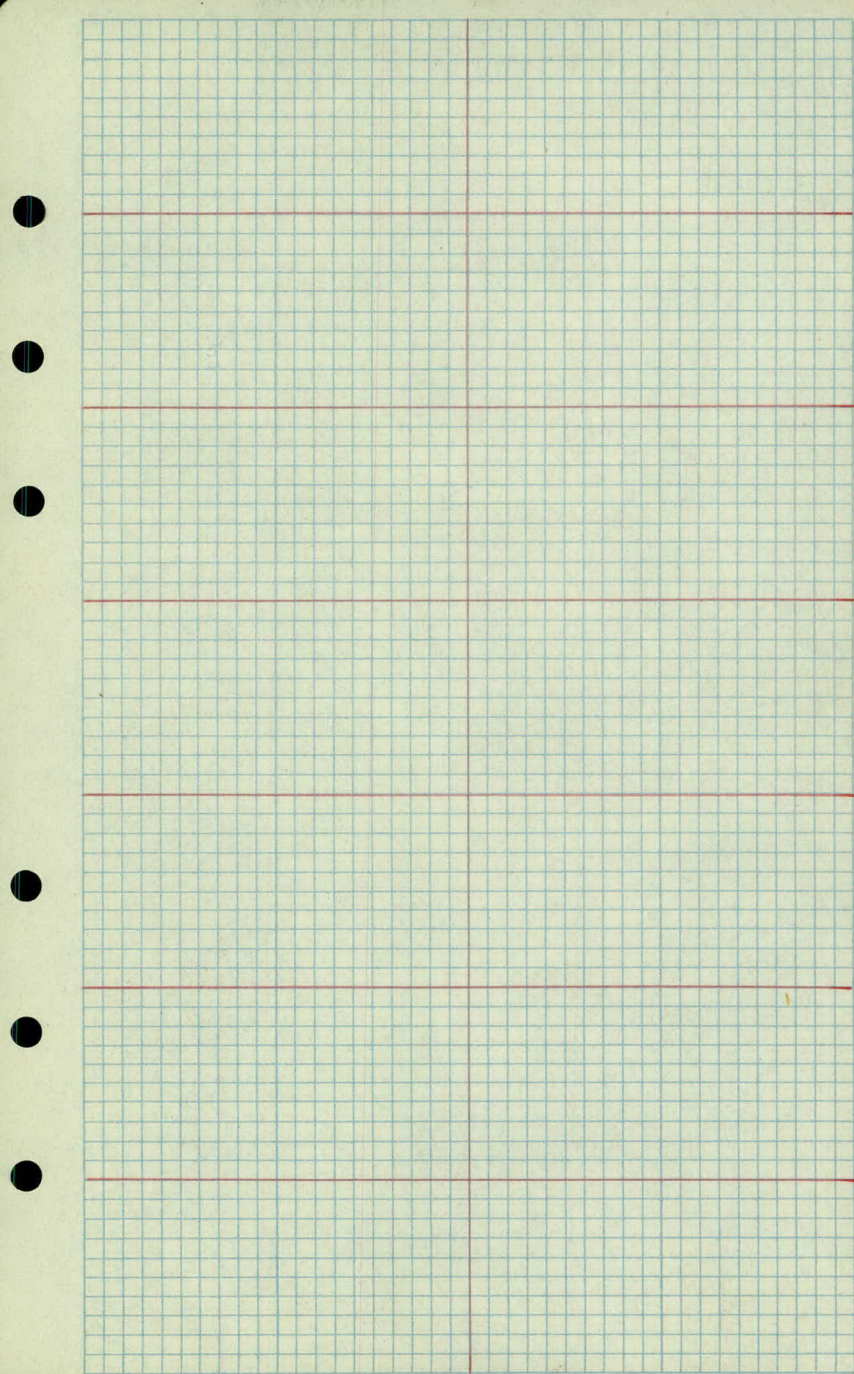
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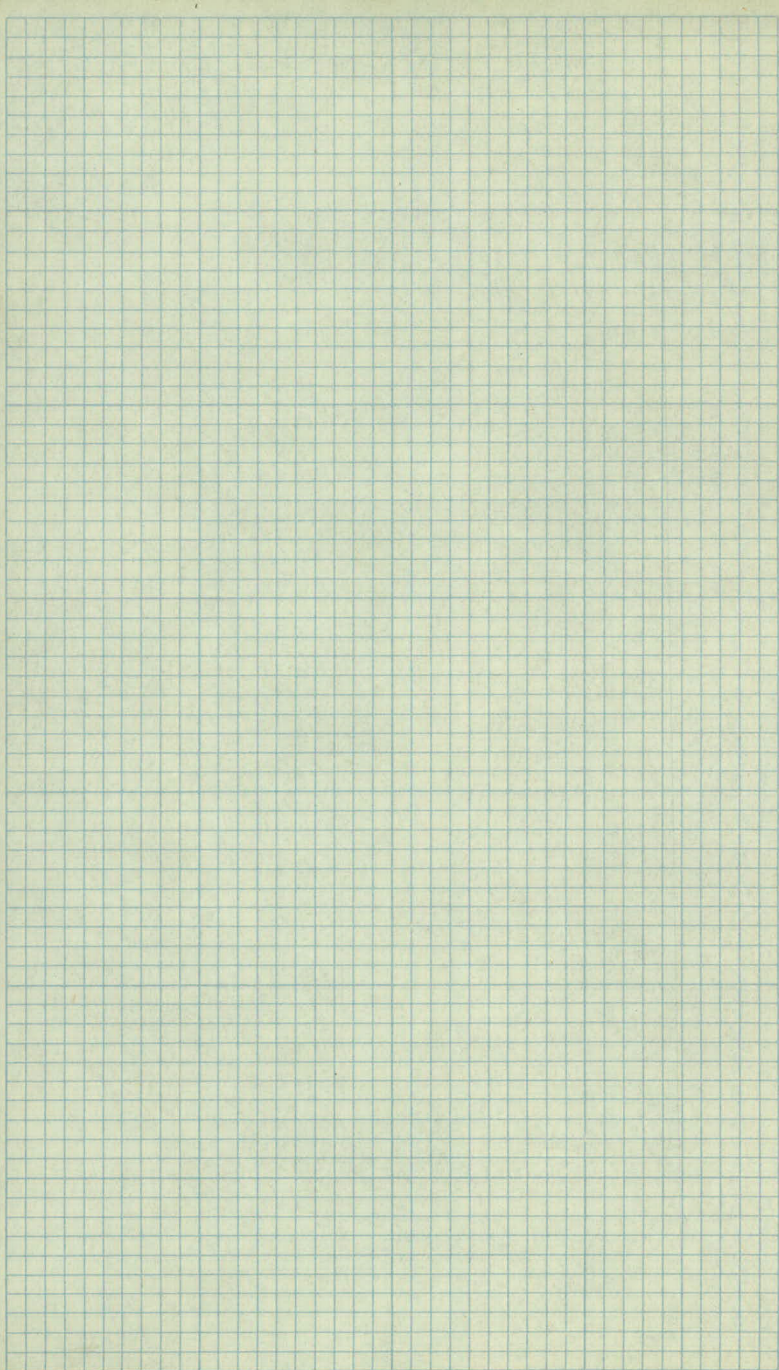
4420











Co Rd C

Grade Lift + Ditch Grades

stg + π — Elev

6 + 00

+50

1

+50

2

+50

3

+50

4

+50

5

+ 50

6

LT ~~L~~ ~~R~~

6.6 6.4 6.4 8.4

6.3 6.0 6.3 8.0 6.0²
6.2¹

6.2 5.8 6.2 7.6 5.5⁵
C2.0

5.7 5.2 6.1 7.2 5.2⁵
C2.0

5.1 4.7 4.0 6.8 4.4⁴
C2.0

4.5 4.2 5.1 6.4 4.4⁴
C2.0

4.4 4.0 5.8 6.0 4.0⁴
C2.0

4.6 4.3 4.7 5.85 3.85³
C.2.0

5.3 5.0 5.6 5.8 5.7 4.7⁴
C1.0

5.6 5.4 5.5 5.6 5.55 4.55⁴
C1.0

5.5 5.4 5.4 5.5 5.4 4.4⁴
C1.0

5.1 5.0 5.3 5.35 5.25 4.25⁴
C1.0

5.2 5.2 C1.0

Sta + π - Elev

6

+50

7

+80

Lt

2

Ditch
G

4.9

4.7

5.2

5.0

4.7

5.1

4.7

4.8

5.0

5.0

4.7

288 949.19 1-61 94631

East 607
33'

Gr Rod

M. 1 P1

G. Rod

Quart
P1.

44~

5.0

400
G1.0

44.0

5.19

419 G1.0

44.0

5.19

419 G1.0

43.84

5.35

435 G1.0

43.45

5.74

474 G1.0

43.23

5.95

395 G2.0

43.47

5.72

472 G1.0

42.50

6.27

427 G2.0

42.50

6.69

469 G2.0

43.10

6.09

409 G2.0

42.5

6.69

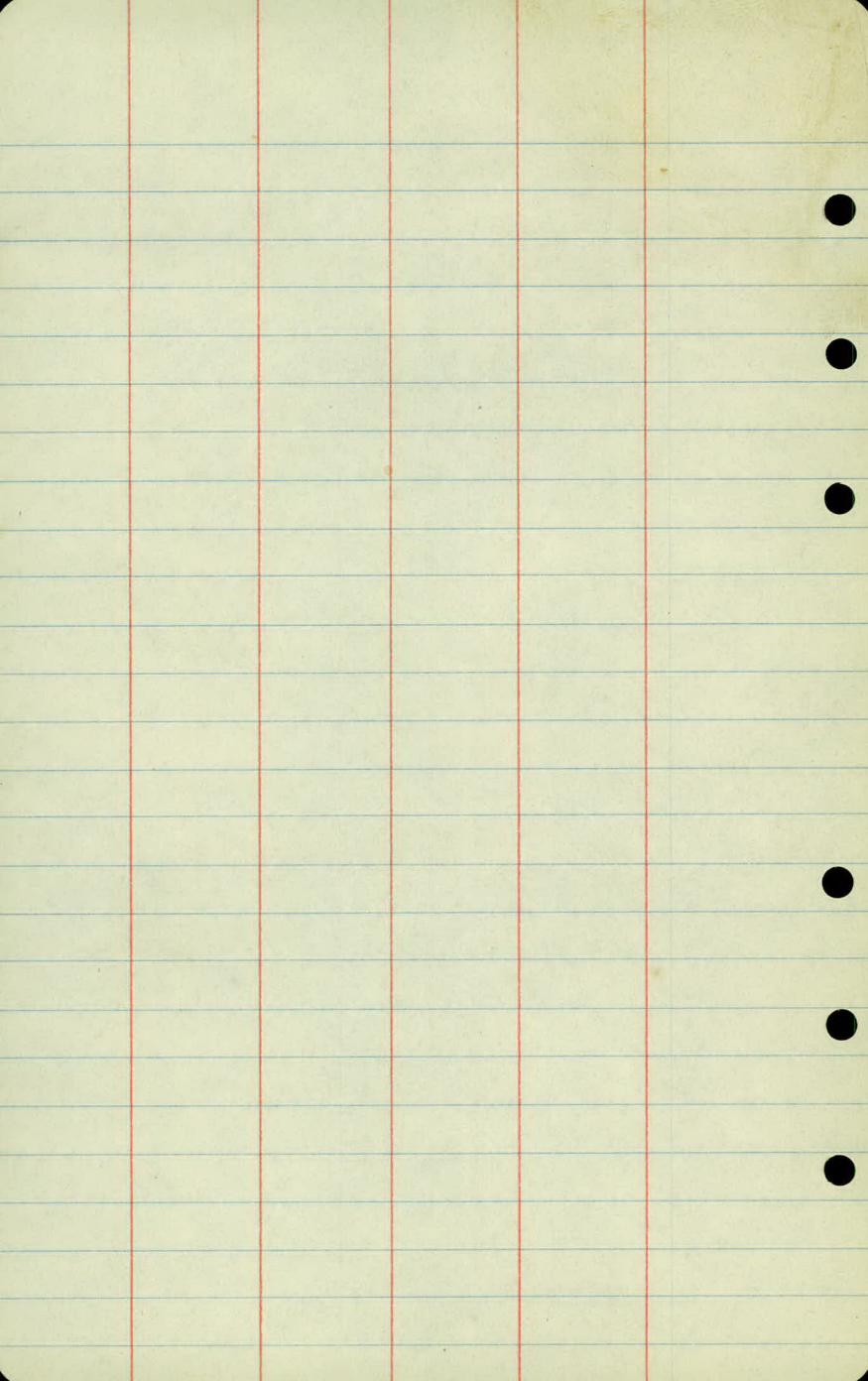
41.75

7.42

42.94

6.25

425 G2.0



44.10

5.19
4.19
C1.0

L

43.38

43.07

6.1[✓]

4.1[✓]
C2.0

42.72

6.4[✓]

4.4[✓]
C2.0

42.14

7.0[✓]

5.2[✓]
C2.0

42.07

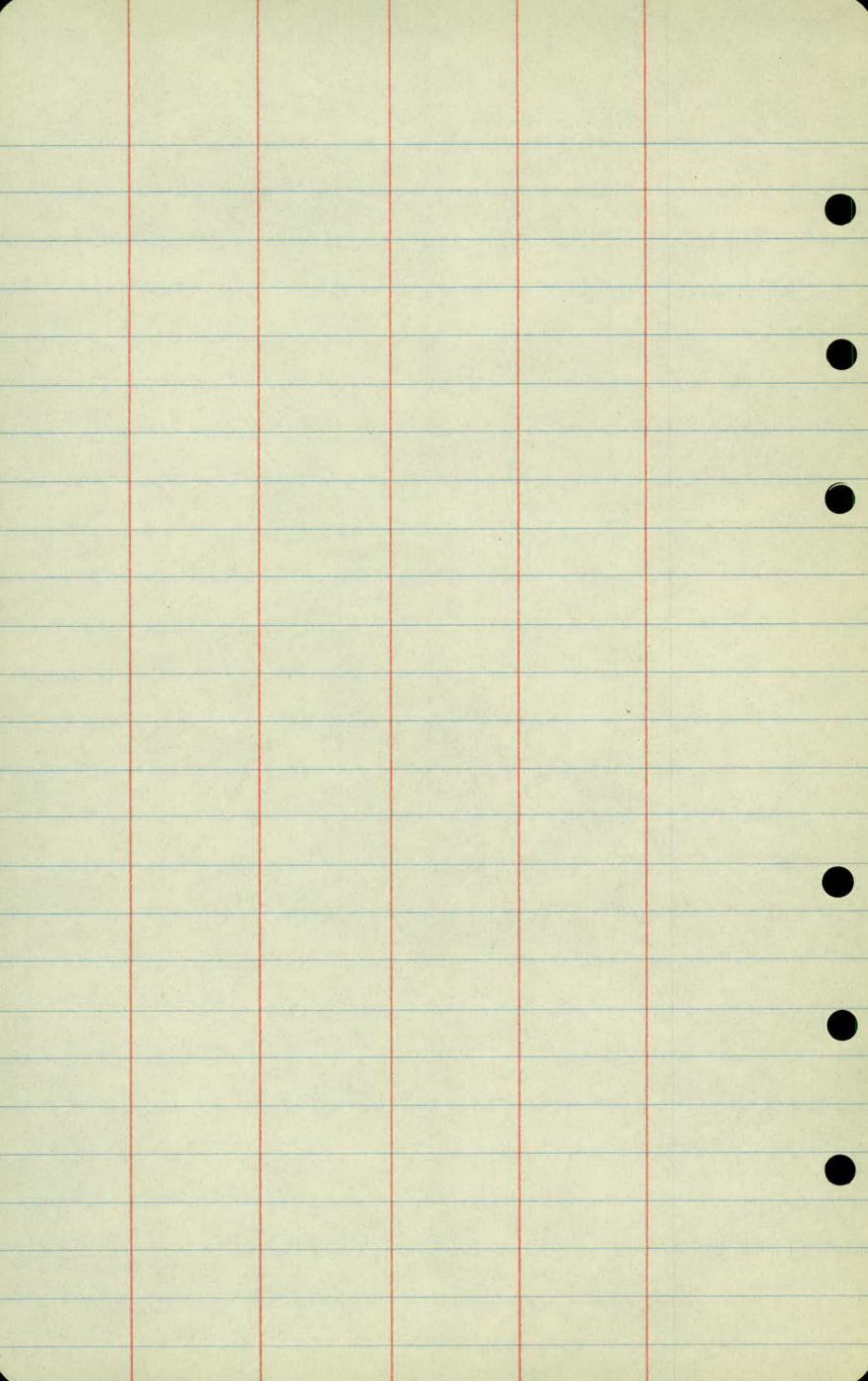
4.1[✓]

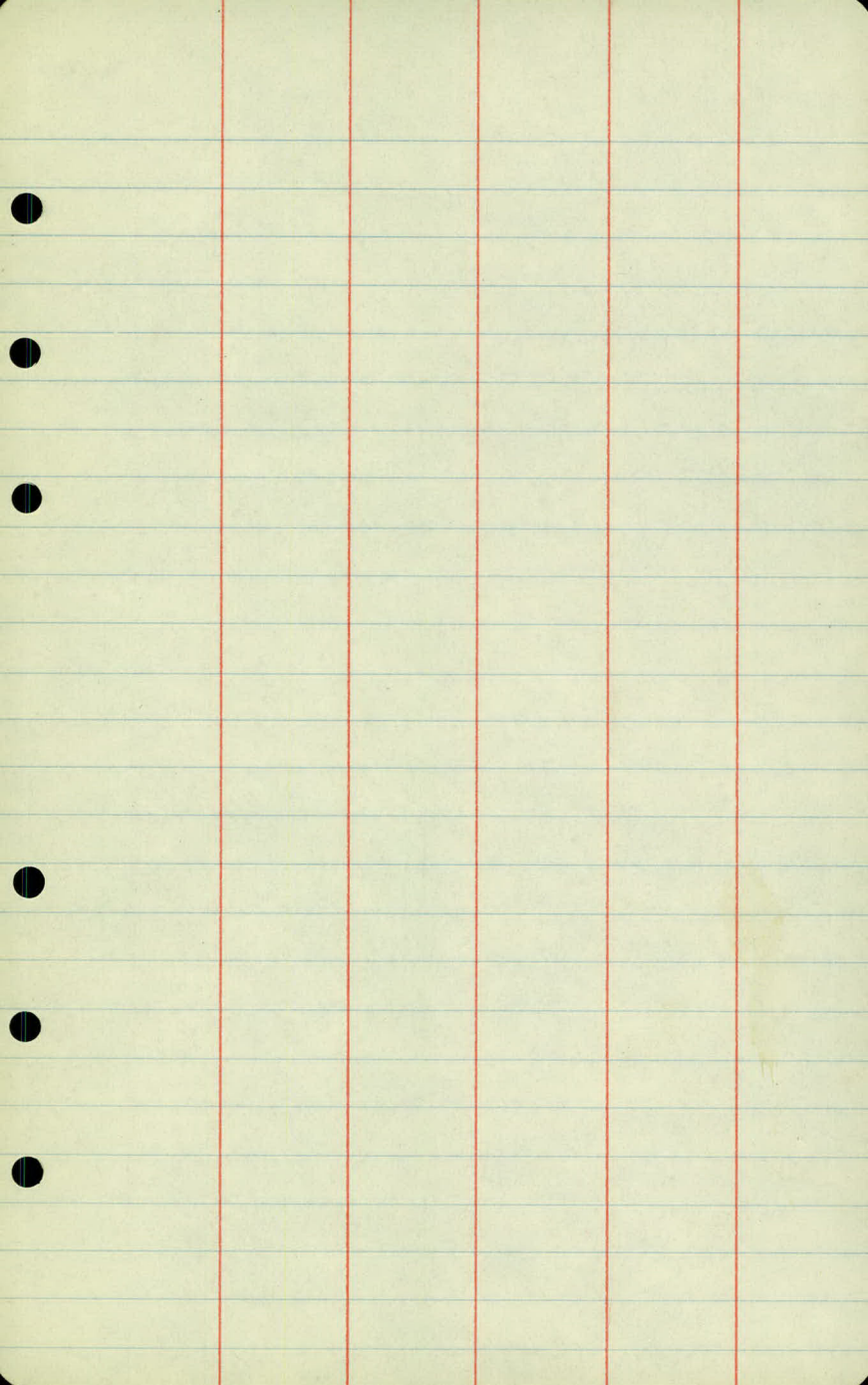
41.75

7.4[✓]

41.92

Gr.
1.2[✓]





3.27 94958

94631

2

287 4918

3

43.28 6.30 4

44.0 5.58 5

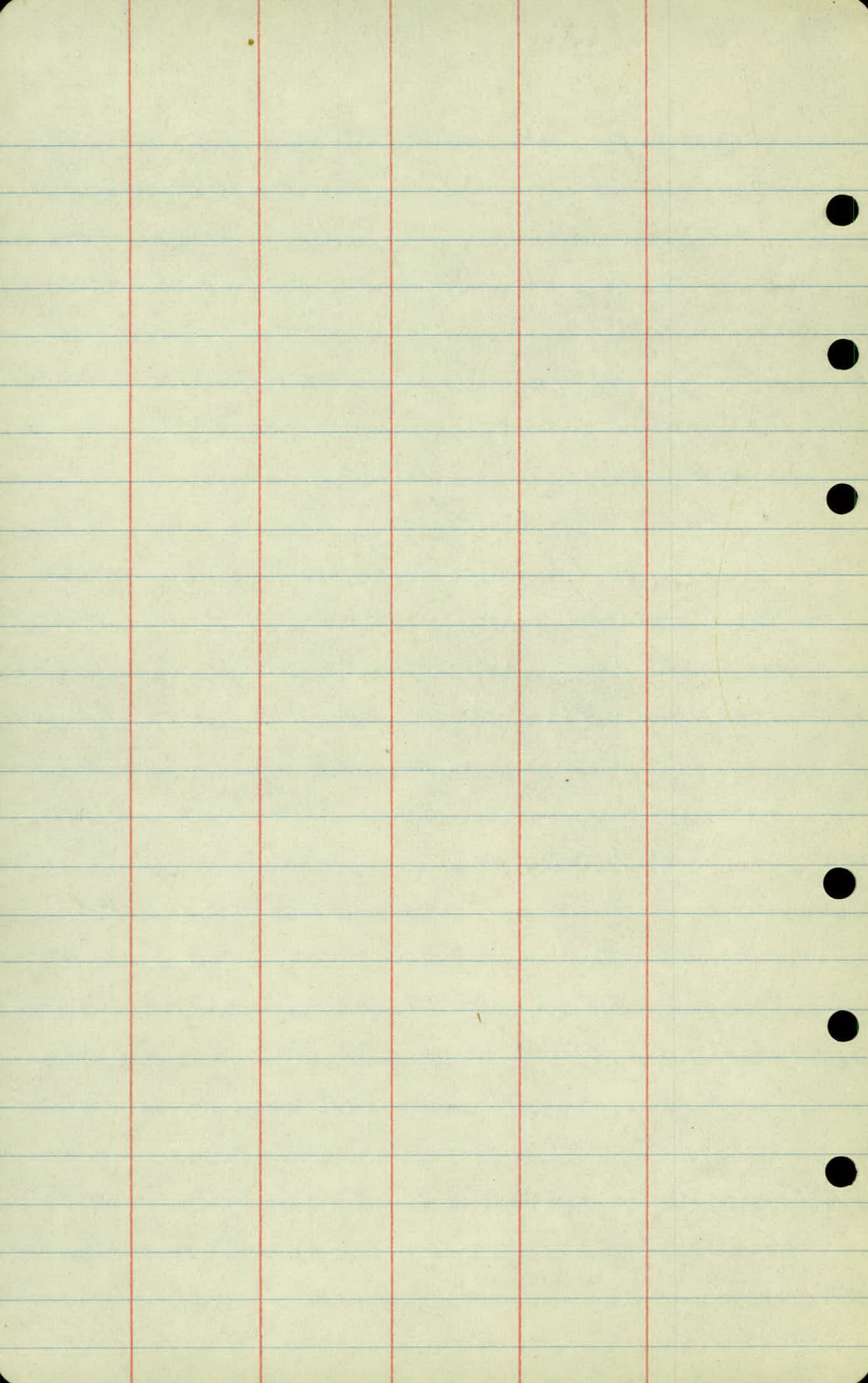
6

7

44.21

5.77

	Rod	✓	Rod		Rod
✓ 41.6	7.98 7.58	41.75	✓ 7.83 7.43		
✓ 41.8	7.78 7.38	42.0 ✓	7.56 7.12	42.39	7.19
✓ 42.0	7.58 ✓ 7.18	42.29 ✓	7.29 6.89	43.08	6.50 ✓ 6.10
4 42.2	7.38 6.98	42.56	7.02 6.62 ✓	43.26	6.32 5.92
✓ 42.40	7.18 6.78	42.83	6.75 6.35	43.45	6.13 5.73
✓ 42.60	6.98 6.58	43.10	6.48 6.08	43.62	5.96 5.56
42.94		43.40		43.98	
6.24	6.24				



Grades
Driveway
Asphalt Plant

Sta	L	π	-	Elev
B.M	3.11	949.42		946.31

0

+20

+40

+60

+80

+86

+94

+104

+14

+24

+34

+44

G.R.

Top Mon

45.3 4.12✓

45.02✓ 440✓

44.74 468✓

44.42 4.96✓

44.18 5.24✓

44.10 5.32✓✓

44.2 5.22✓

44.3 5.12✓✓

44.4 5.02✓✓

44.5 4.92✓

44.6 4.82~

44.7 4.72✓

Sta	+	π	-	Elev
-----	---	-------	---	------

949.42

1+54

46

164

174

180

1.00

947.31

46.31

442

44.5 4.92

444

44.35 5.07

47-3

44.7

26

Top Wall

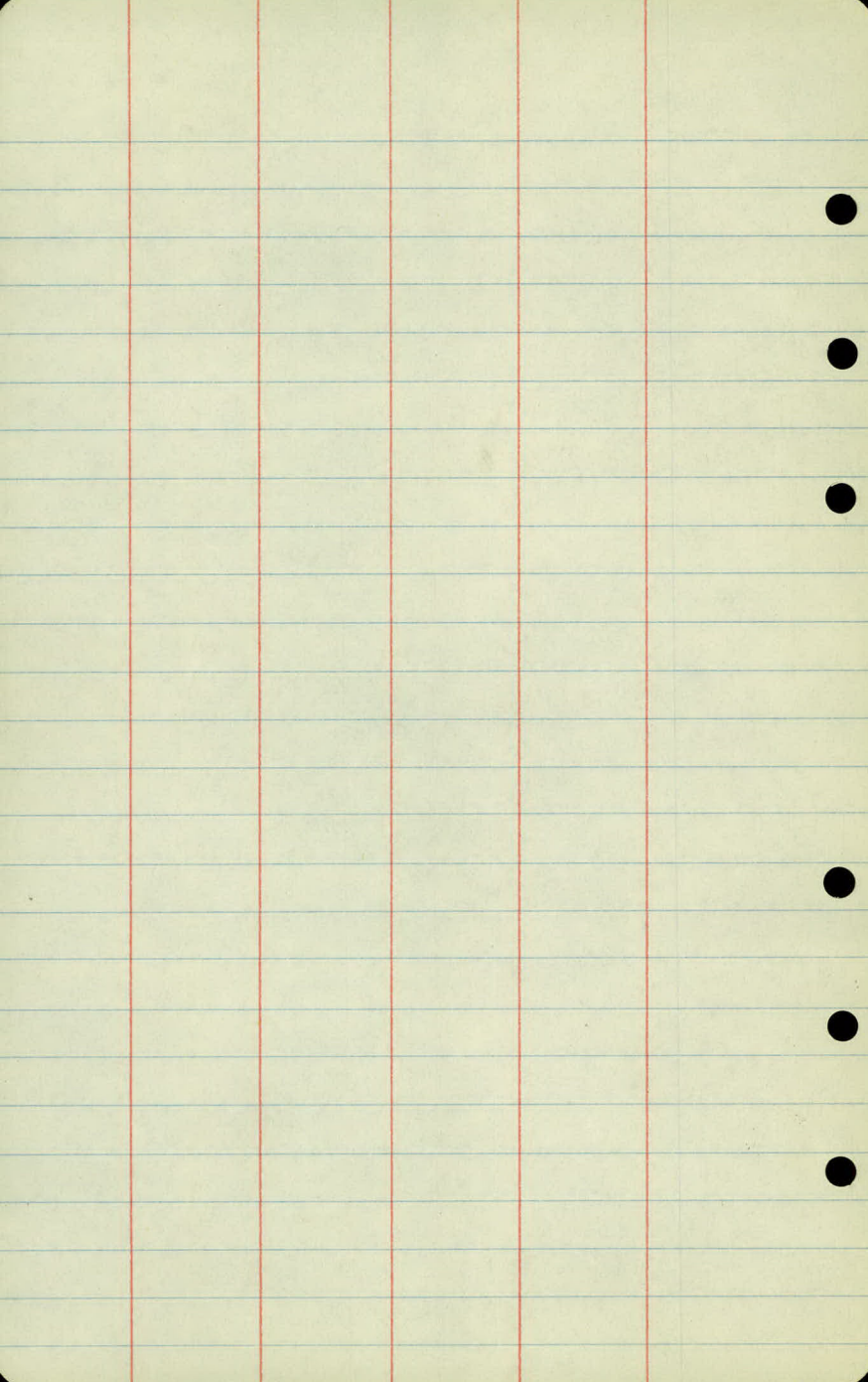
946.31

4.25

950.56

454.8

488 G. R.



Grade Stakes
Asphalt Plant
Slab S.W. Corner

Sta	+	π	-	Elev.
B.M.	2.56	948.87		(946.31)
B.M.			3.33	943.54
B.M.			4.16	944.71

477
O
M.H.

447
C.R.

4.18
44.69

Drive
Slab 7.81
41.56

4.50
44.37

4.34
44.53

+53

R=22.87

+43

0 +33

4.95
44.42

slab 5.91
42.96

4.70
44.17

44.6

44.6

3-21-46
K.A.
A.M.
C.F.

Grades and Grade Eod.

Top Mont. Co. Rd. E + Lexington Ave.

Top S. End Curb Loading Pit

Top N. End Curb Loading Pit.

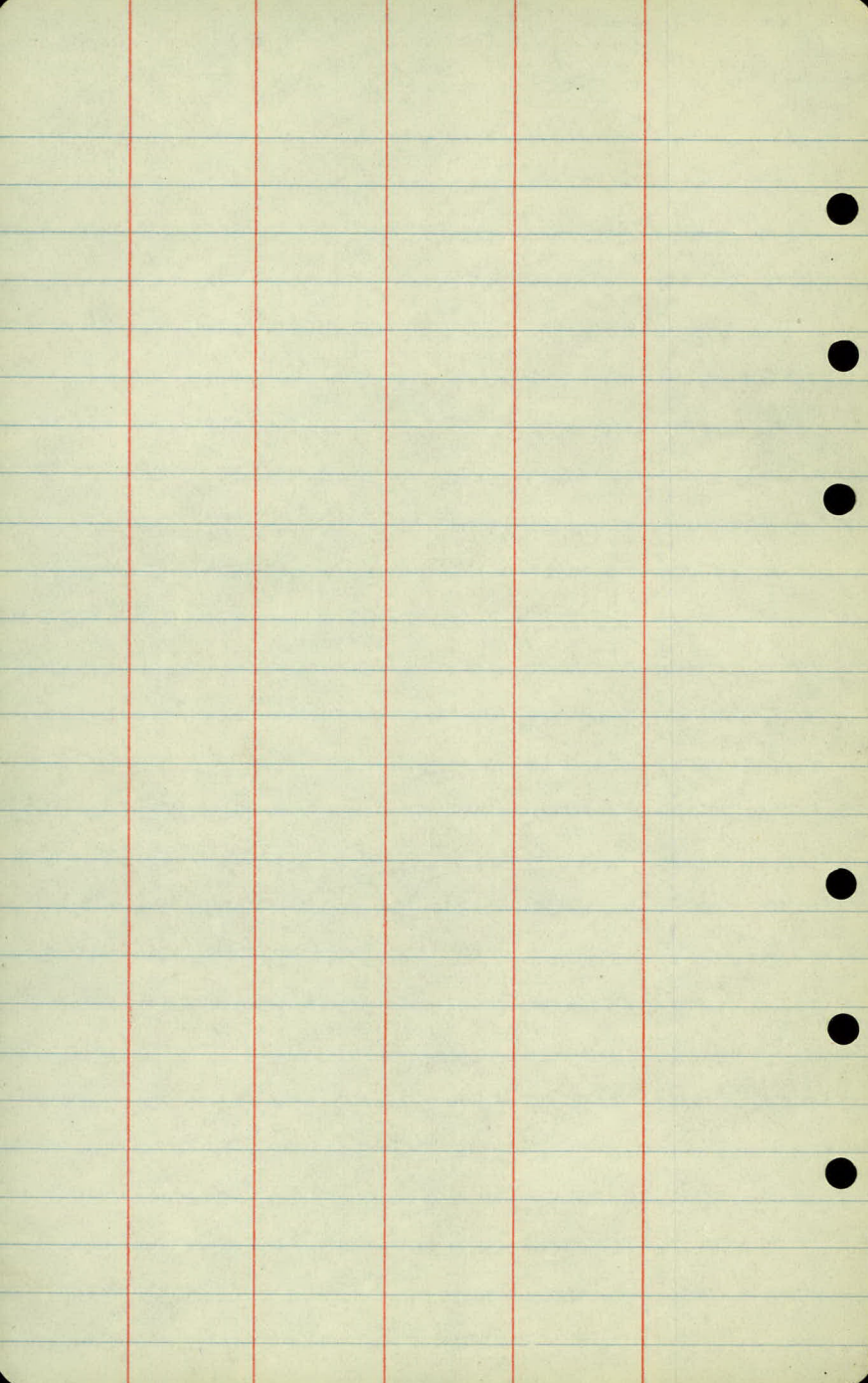
3.33					
45.54	73	63	53	43	33

		(+2.7)	(+1.9)	(+1.2)	(+0.4)	(-0.8)
		4.0	4.1	4.05	4.9	4.0
		6.1	6.0	5.25	4.52	3.79
44.21	42.06	42.16	42.89	43.62	44.35	45.08
Top Curb	75	73				

		(+1.9)	(+1.5)	(+0.9)	(+0.5)	(-0.1)
		4.5	4.3	4.23	4.0	3.9
		6.4	5.8	5.13	4.48	3.83
44.3	42.5	43.09	43.74	44.39	45.04	
Top curb	at curb					

		(+1.1)	(+0.7)	(+0.5)	(+0.2)	(0.0)
		4.8	4.6	4.3	4.1	3.8
		5.9	5.34	4.85	4.36	3.87
44.39	42.96	43.01	43.53	44.02	44.51	45.0
Top, Curb	75	73	63	53	43	33

Curb



ASPHALT PLANT

Sewer Elevations

Sta	+	π	-	Elev
B.M.	3.59	949.90 [✓]		(946.31)

Loading Pit			8.83	941.07 [✓]
-------------	--	--	------	---------------------

0 +00 = C.B.			12.93	36.97 [✓]
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+13 M.H. #1		12" Pipe 10.55 Sewer 13.98		
T.P.	3.44	947.06	4.28	942.12

+82 M.H. #2		12" Pipe 10.55 13.98		39.35 [✓] 35.97 [✓]
T.P.	3.44	947.06 [✓]	6.28	943.62 [✓]

2 +12 M.H. #3			12.42	34.64
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+75 M.H. #4		12" Pipe 13.05		35.01 34.01
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+90 End Sewer			13.10	33.96
---------------	--	--	-------	-------

S. End 24" R.R. Culv }			13.87	33.19
------------------------	--	--	-------	-------

N. End 30" R.R. Culv }			14.5	32.56 [✓]
------------------------	--	--	------	--------------------

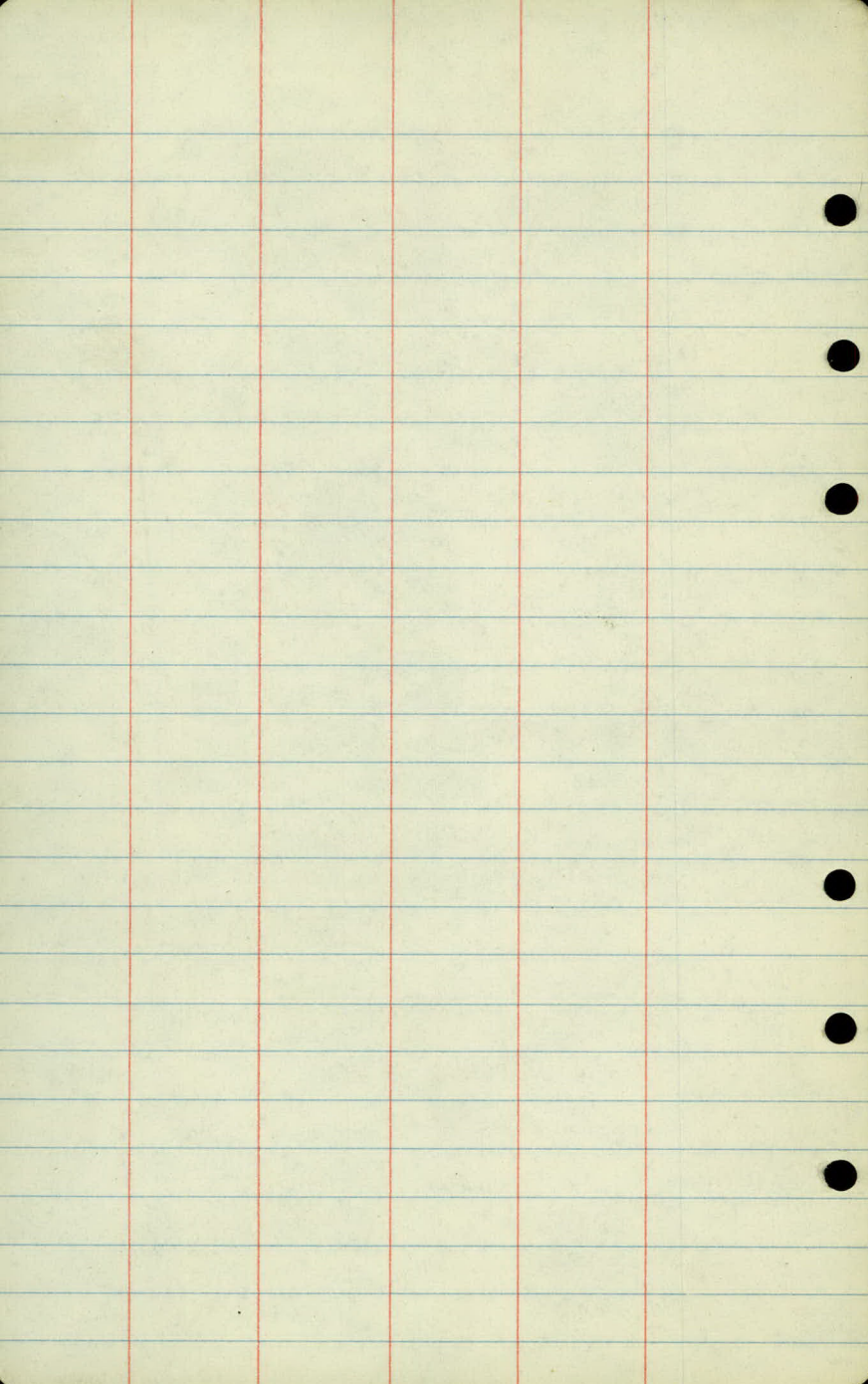
T.P.	6.45	949.74 [✓]	3.77	943.29 [✓]
------	------	---------------------	------	---------------------

B.M.			3.44	946.30 [✓]
------	--	--	------	---------------------

2-4-46
K.A.
A.M.
M.B.
C.F.

SNOW & Windy

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



Asphalt Plant.

Curb Stakes

S. W. Corner.

Sta	+	π	-	Grade.
B.M.	4.19	949.73		945.54

1				44.56
---	--	--	--	-------

2				44.54
---	--	--	--	-------

3				44.52
---	--	--	--	-------

4				44.50
---	--	--	--	-------

5	Beg. Rod.			44.48
---	-----------	--	--	-------

S.W. Cor. W. Drive		4.53	45.20
Loading Pt.			
S.E. Cor. E. Drive		4.54	

S.W. Cor. E. Drive		4.33	
S.E. Cor. " "		4.31	

Gr. Rod

5.17

5.13
4
4.73
4.8

5.19 ✓

5.21 ✓

5.23 ✓

5.25 ✓

(446)

(4448) (5)
41.56
5.2.97

(4450) (4)
41.95
5.2.65
5.06

Curb 2

(1)
42.96
C. 1.60
5.10.6

(44.56)

(44.54) (2)
42.6
C. 1.84

(44.52) (3)
42.20
5.2.32

33

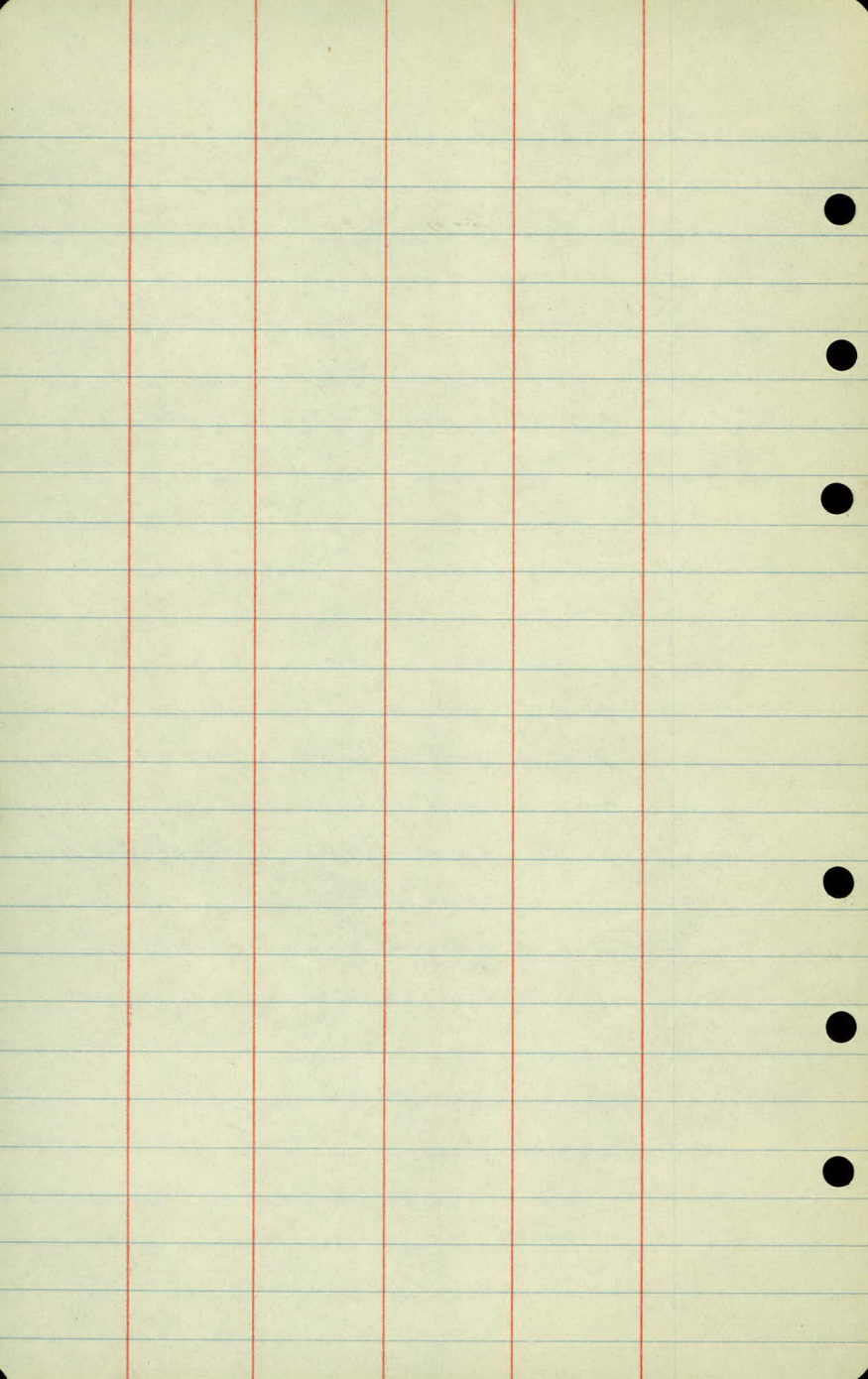
43

53

63

Loading pit

Co. Rd. "E"



ASPHALT PLANT

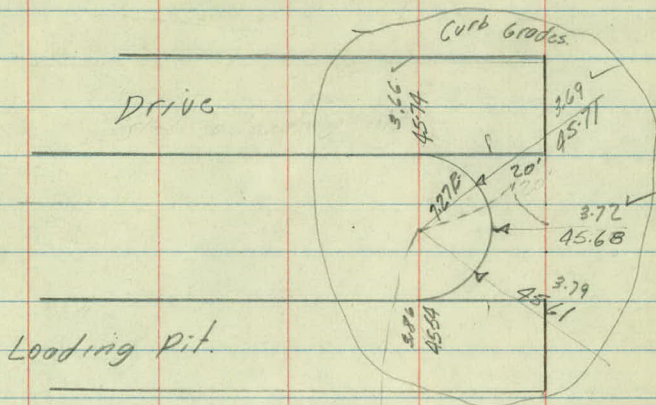
Slab Grade S.W. Corner.

Sta.	+	π	-	Elev	
B.M.	3.86	949.40			(945.54)
B.M.			4.70	944.70	(944.71)

4.31
4589

82.55
33
49.55 57.98
33
19.

Grade and Grade Eods



✓
6.36
4304

✓
5.68
4372

✓
5.0
444

✓
4.32
4508

✓
6.22
4318

✓
5.60
438

✓
4.98
4442

✓
4.36
4504

✓
5.87
4353

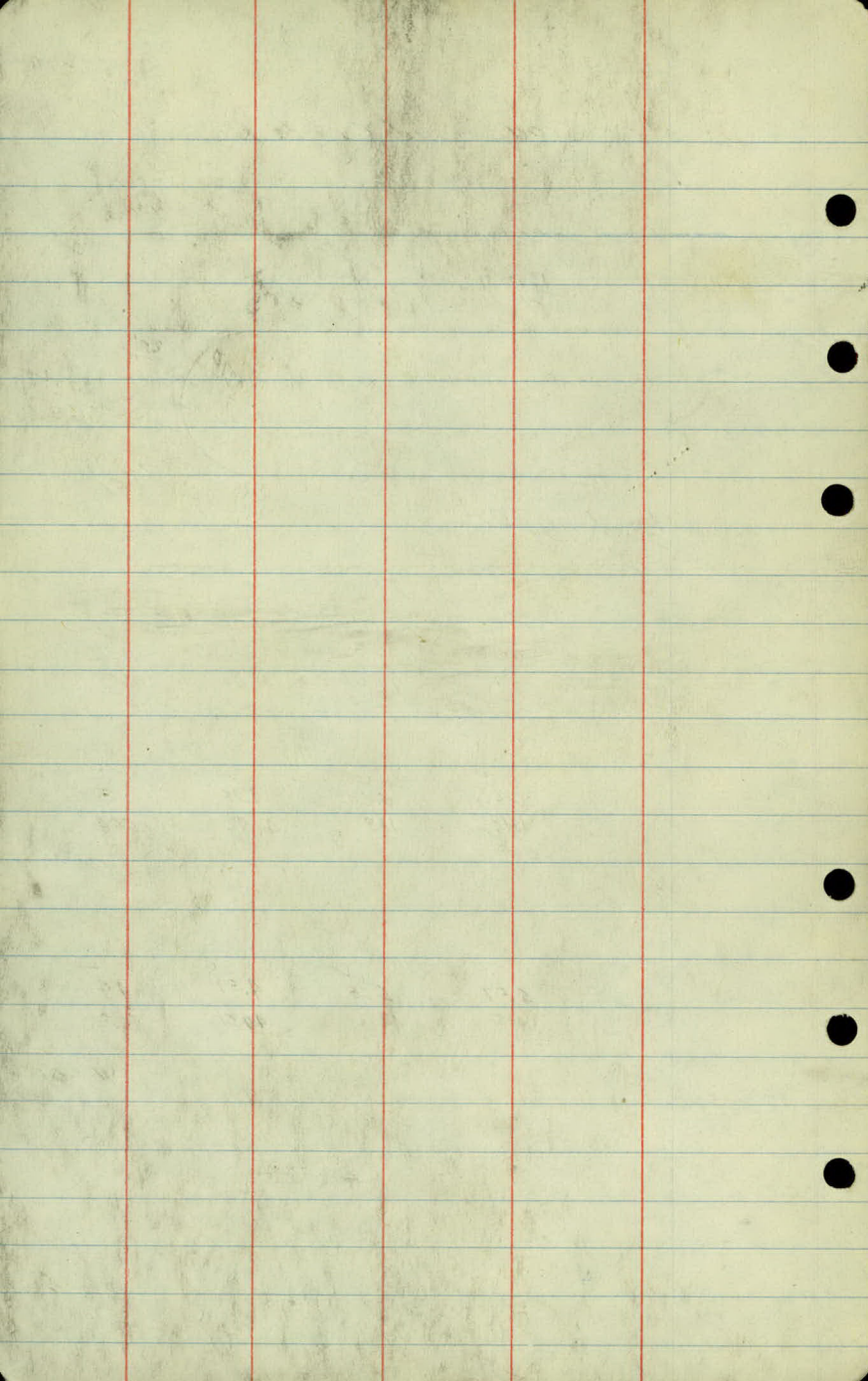
✓
5.28
4402

✓
4.89
4451

✓
4.4
45.0

SW. COR

← Z



Asphalt Plant

Yard Grades

Sta	+	π	-	Elev
B.M.	3.91	949.45		945.54

8

10

12

14

16

B.M.	3.00	948.00		945.00
------	------	--------	--	--------

18

20

25-46

135

125

115

105

95

Curb

4.90 ✓

4.98

4.95 ✓

5.06

5.10 ✓

44.55

44.55

44.5

44.4

44.35

5.00 ✓

5.06 ✓

5.05 ✓

44.45

44.42

44.39

44.35

44.4

44.45

5.10

5.15 ✓

5.20 ✓

5.25 ✓

44.35

44.30

44.25

44.2

44.2

44.25

5.15 ✓

5.15 ✓

5.15 ✓

5.55 ✓

44.2

44.30

44.0

43.7

43.9

5.45 ✓

5.65

5.85 ✓

6.05 ✓

5.65 ✓

5.45 ✓

44.0

43.8

43.6

43.4

43.8

44.0

85

65

Top Curb

4.6 ✓

4.8 ✓

4.5 ✓

4.3 ✓

43.4

43.2

43.5

43.7

85

65

4.8 ✓

X

5.0 ✓

4.7 ✓

4.5 ✓

43.2

43.5

43.1

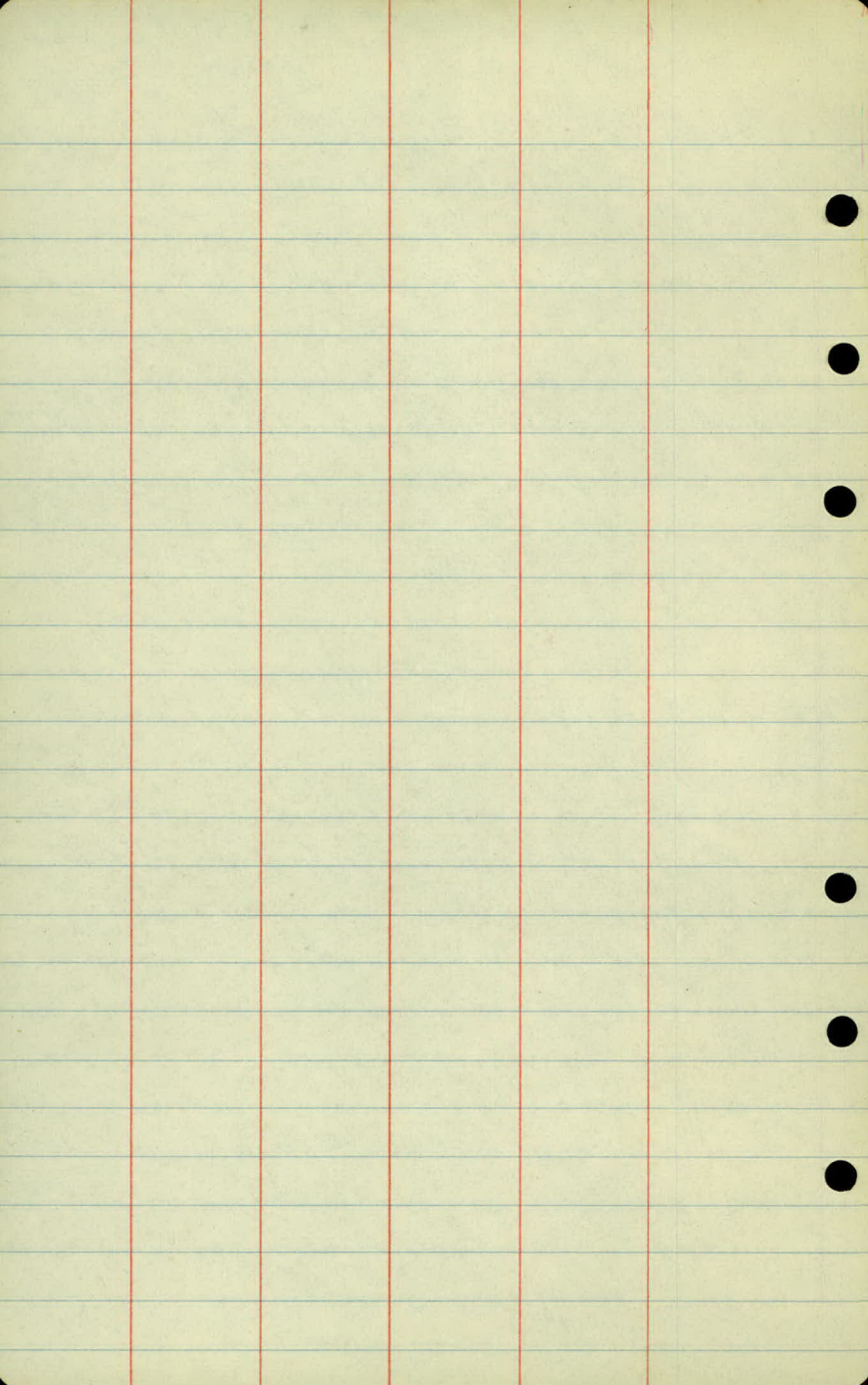
43.0

43.3

43.5

85

65



Asphalt Plant.

Curb Grades.

Sta.	+	π	-	Grade.
B.M.	4.99	949.70		944.71
B.M.				

+60

+40

+20

$$\begin{array}{r}
 134 \\
 106 \\
 \hline
 804 \\
 1340 \\
 \hline
 1424
 \end{array}$$

$$\begin{array}{r}
 0511 \\
 14 \\
 \hline
 20.97
 \end{array}$$

0 +00

$$\begin{array}{r}
 734 \\
 106 \\
 \hline
 4404 \\
 7340 \\
 \hline
 77800
 \end{array}$$

$$\begin{array}{r}
 0574 \\
 .78 \\
 \hline
 44.96
 \end{array}$$

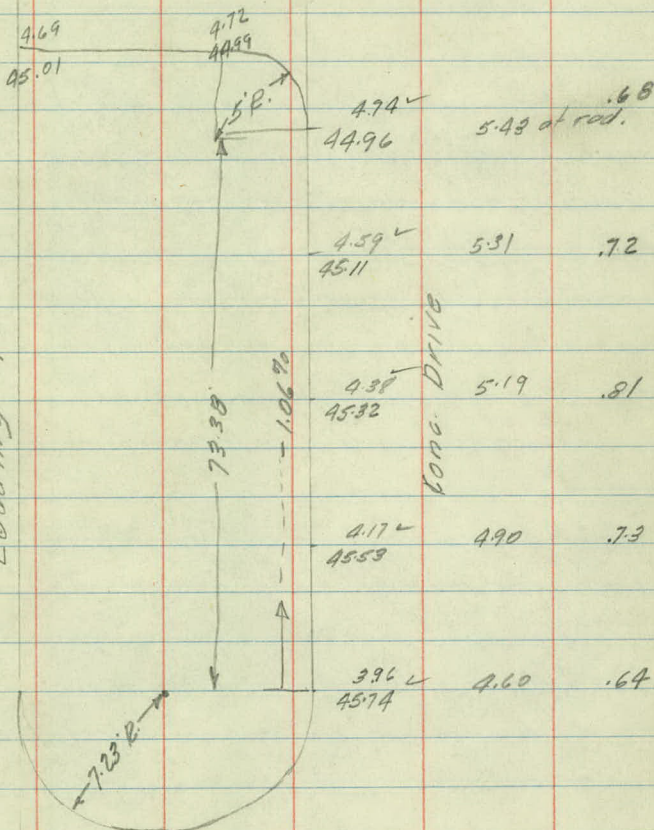
$$\begin{array}{r}
 106 \\
 13 \\
 \hline
 518 \\
 1060
 \end{array}$$

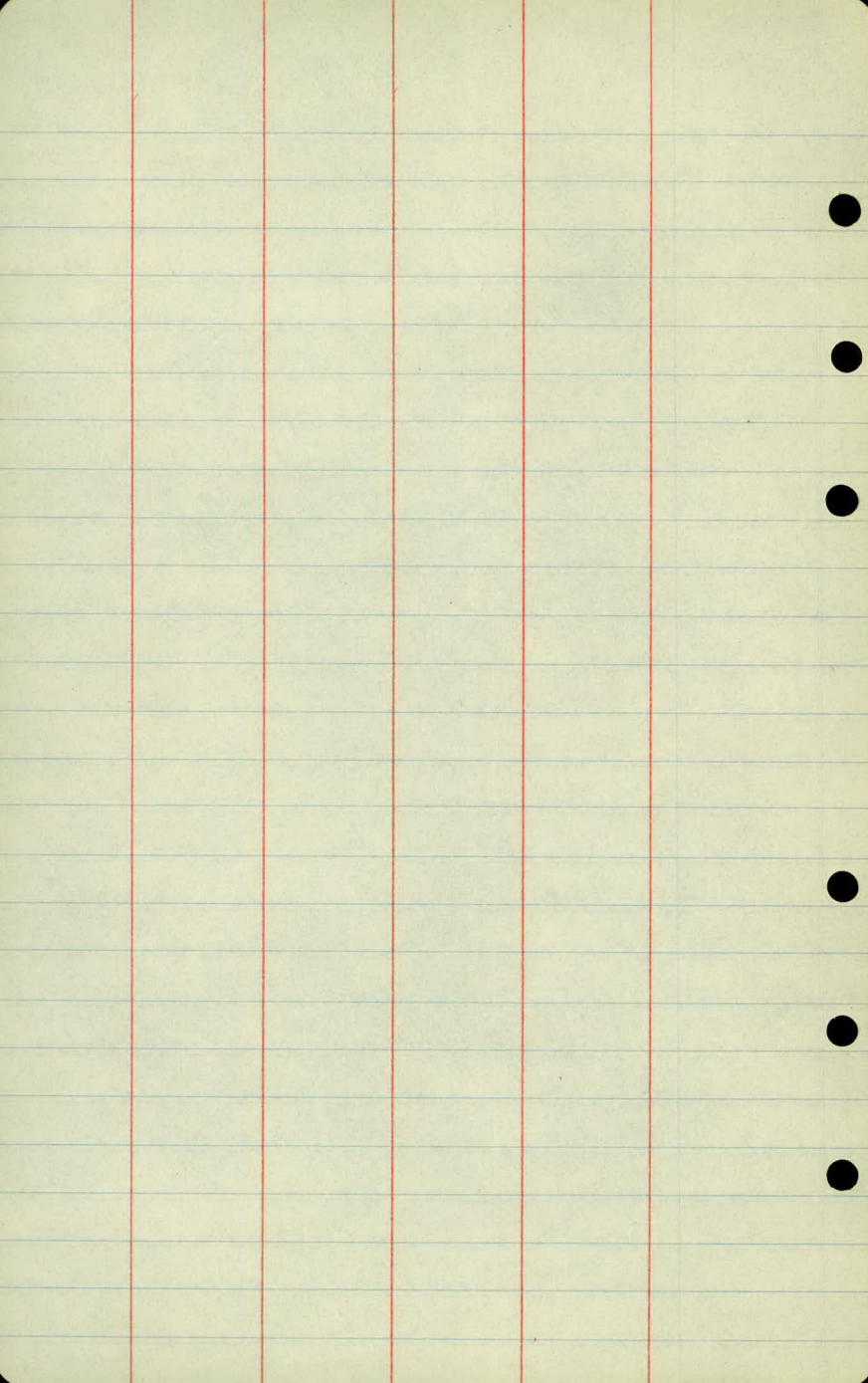
10918

Slob CURB
EXPOS.

11

loading pit





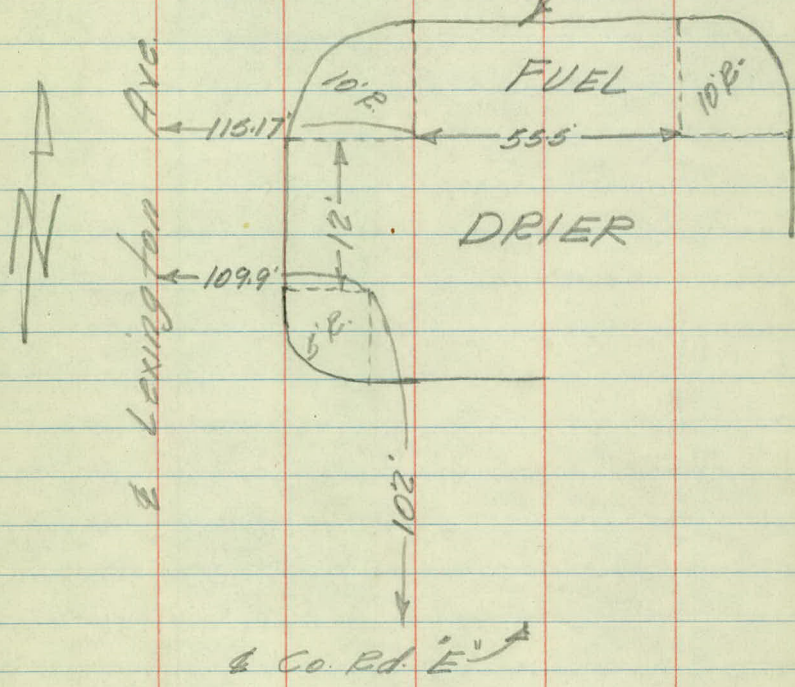
Asphalt Plant

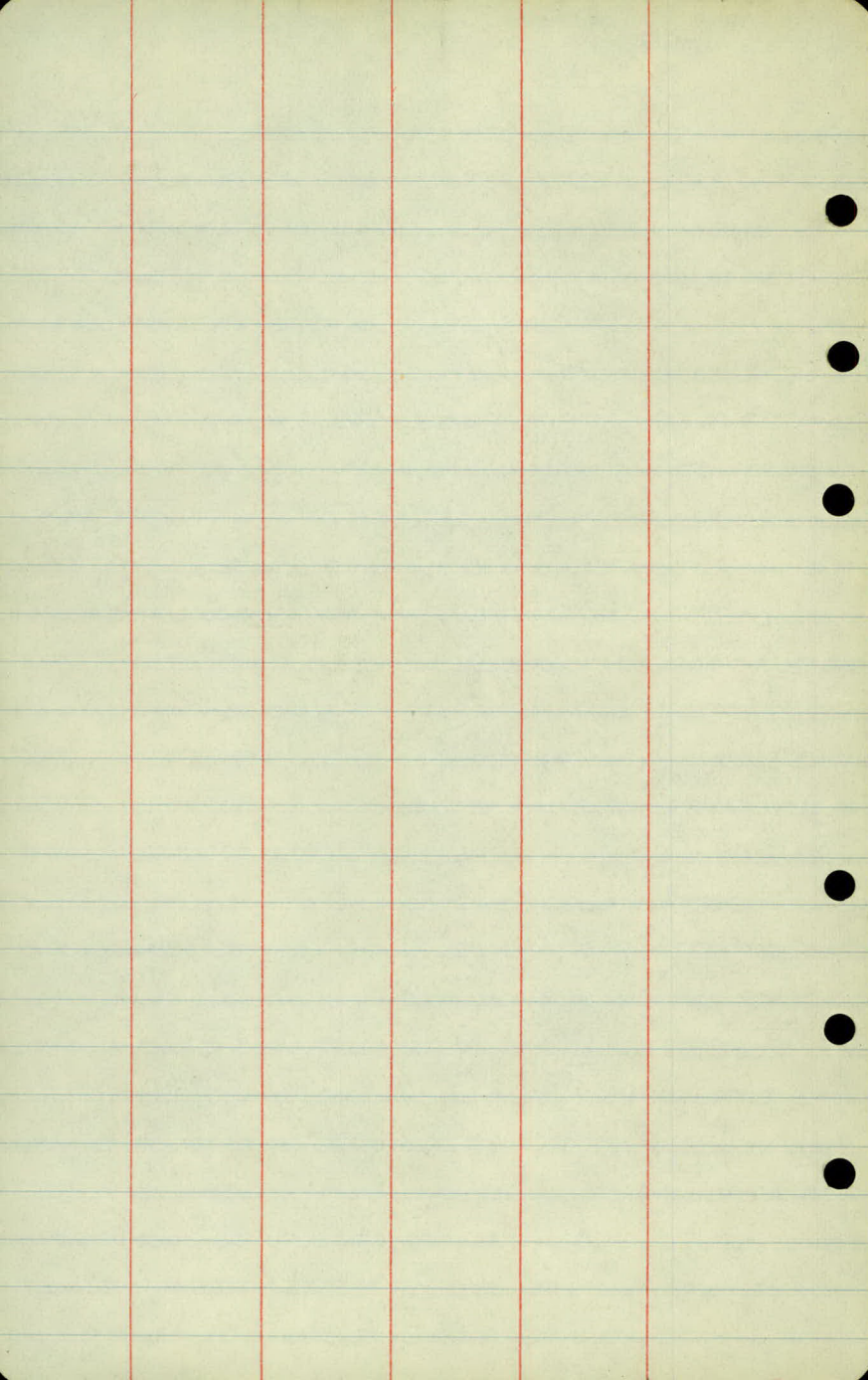
Curb Grades

sta	+	π	-	Elev.
B.M.	3.66	949.20		945.54

4-3-46 Cold & Windy
K.A.
P.M.
C.F.

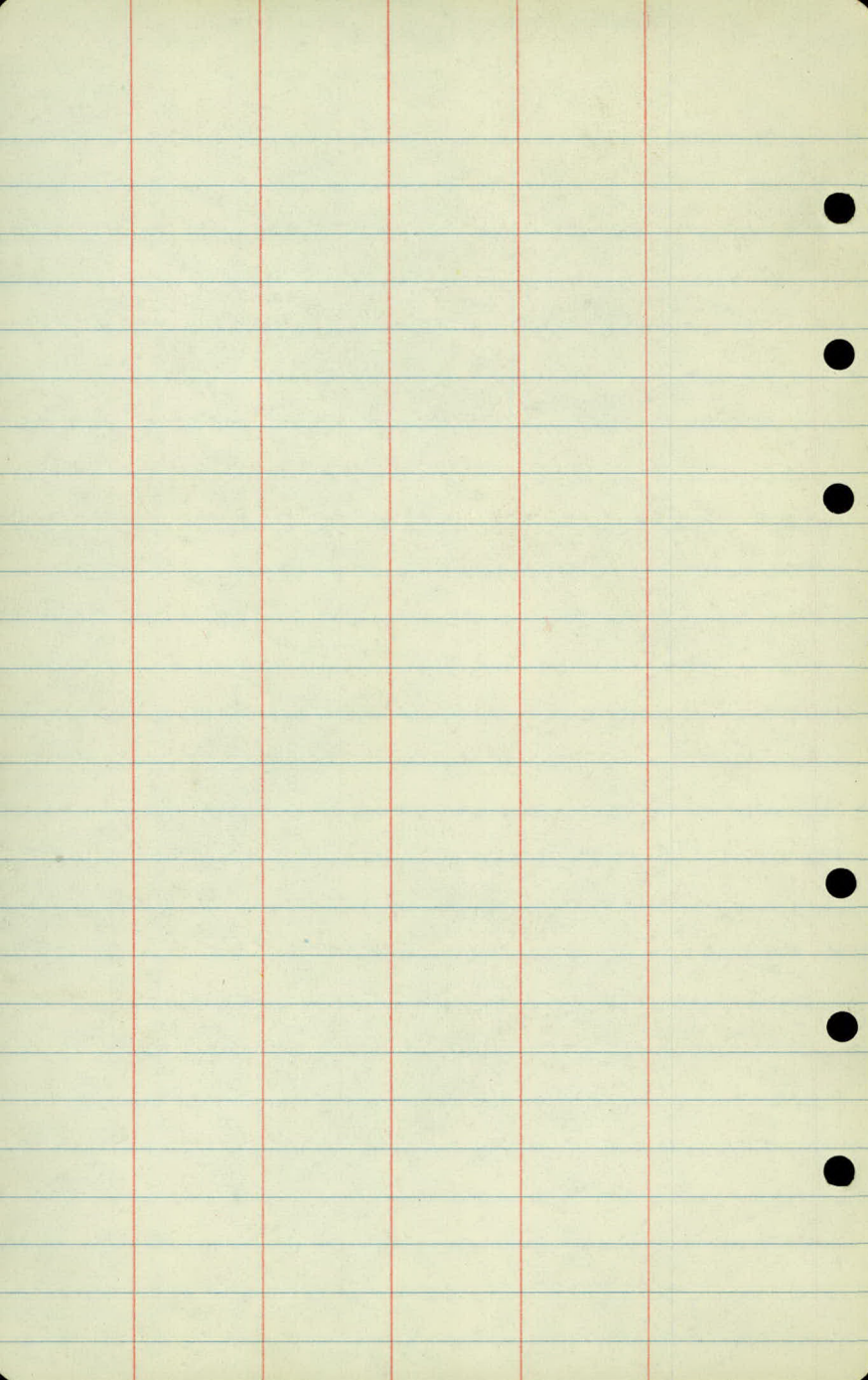
Gr. Rod. = 4.2
EL = 945.00



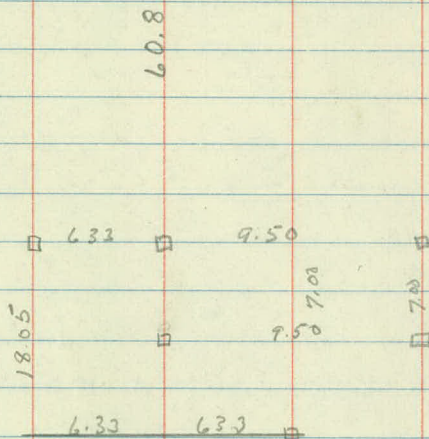
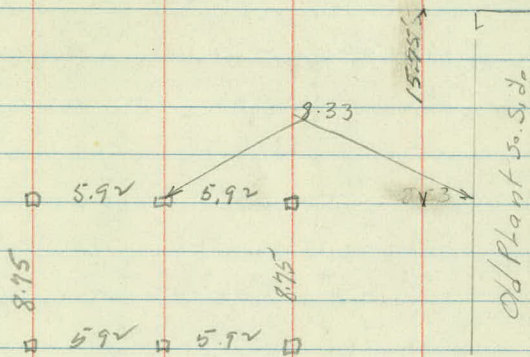


Staking Notes

New Mixing Plant



2 Plan 1



	+	Δ	-	Elev
B.M	6.42	952.73		946.31
		³ -10.5		944.50
				947.43
				947.83
				949.73

Rod

Top Mon & Co Rd E + Lev

Ground Elev.

8.23

Elev Top Piers Mixer

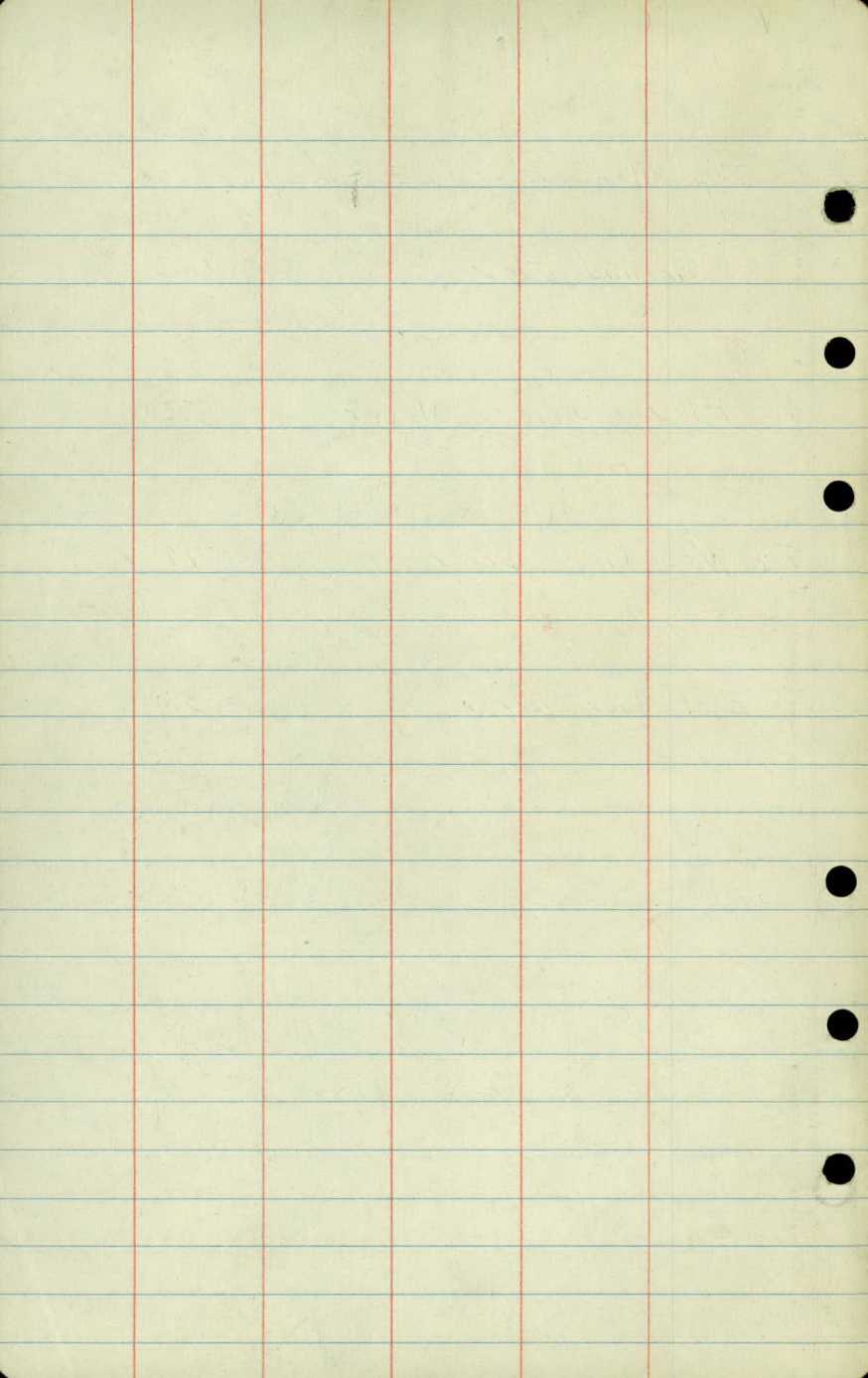
5.30

Top West Pier Dryer

4.90 ✓

Top East Pier Dryer

3.00 ✓

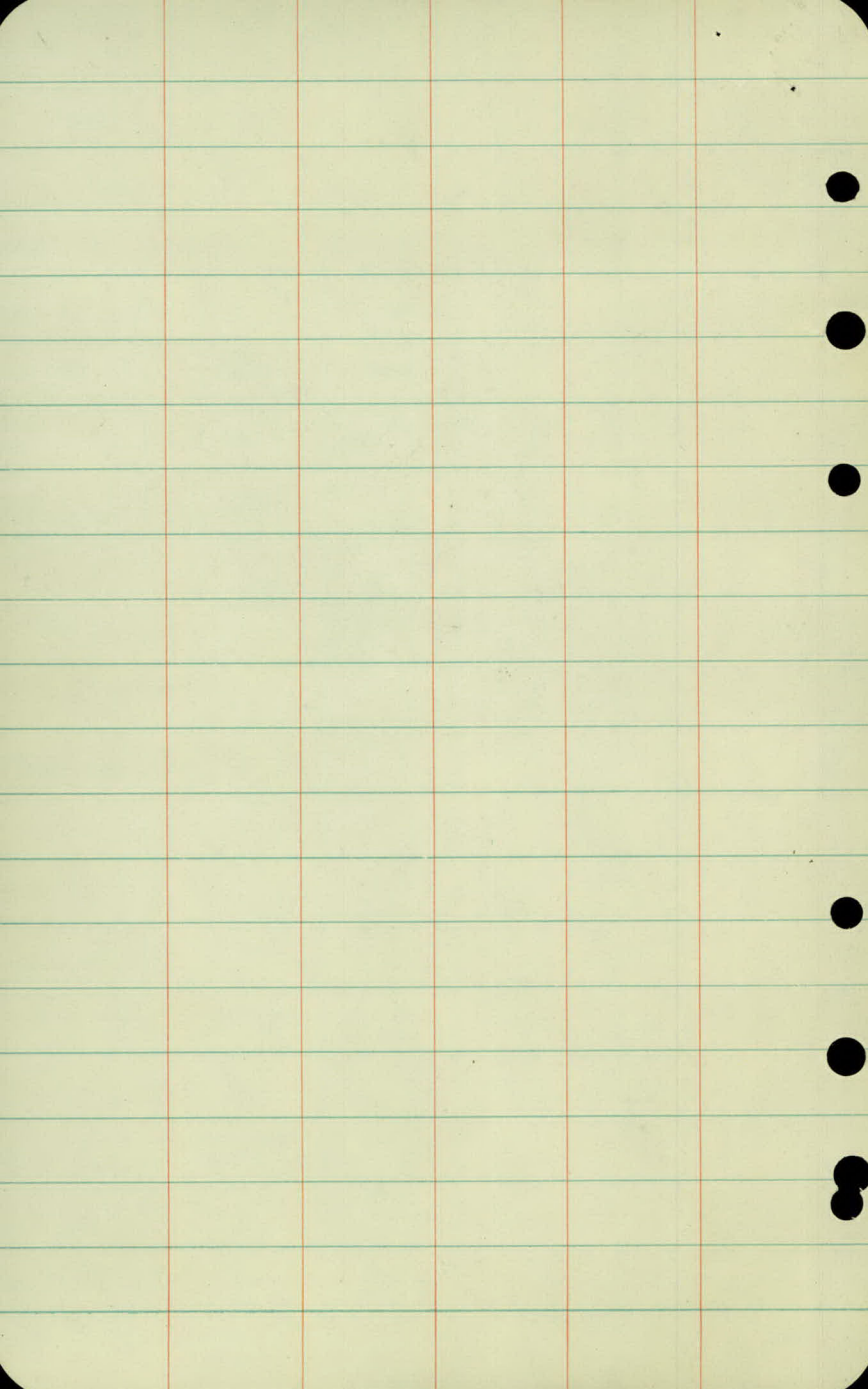


1

Asphalt Plant Swamp Property

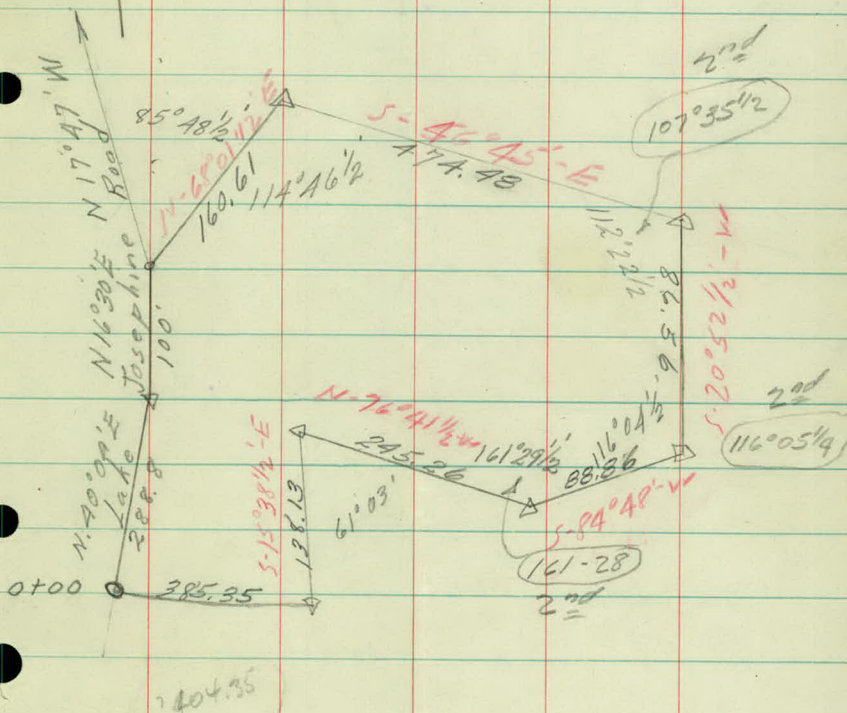
Location & Profile

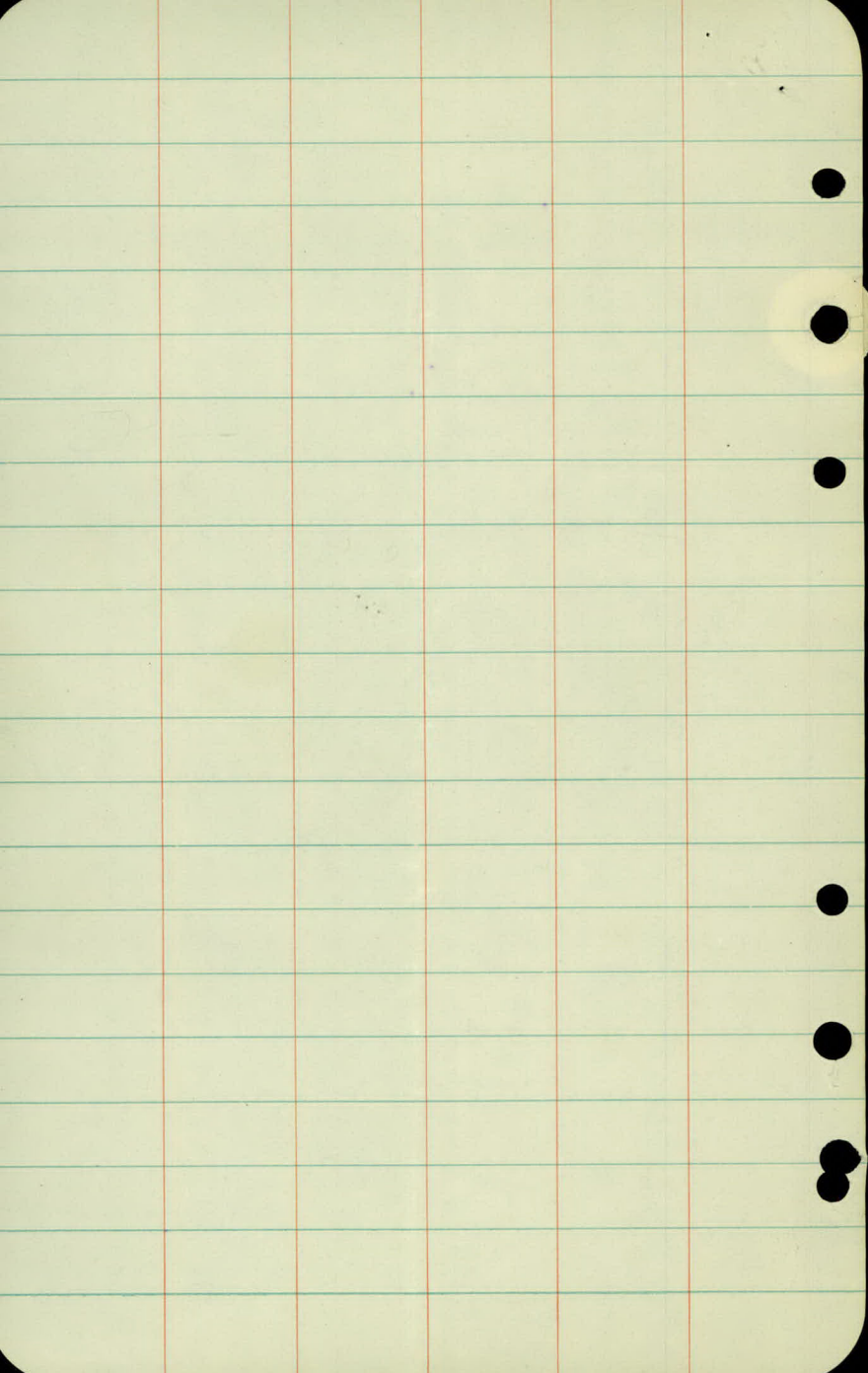
9 pages



FK
RG
RH
JD

2





FA
RG
JD
RH

July 11, 1956

3

Profile of Line

Sta	+	π	-	Elev
BM	3.12	948.66		945.54
TP	4.91	945.00	8.57	940.09

0+00

+20

+50

1

+50

+91

+92

+96

July 11, 1956

3

Paint spot at SW Cor of Asphalt Plant Shed on
iron at 0+00

40.0

5.0

38.5

38.5

6.5

37.1

7.9

36.1

8.9

35.7

9.3

35.5

9.5

31.1

13.9

31.4

13.6

Sta + Δ - Elev

945.00

2

+ 01.5

+ 25

+ 59

+ 88.8 P.I.

3

3+39

+ 88.8 P.I.

TP 2.98 946.19 1.79 943.21

4

July 14, 1956

4

33.7
11.3
35.7
9.3
36.2
8.8
38.0
7.0
39.8
5.2
40.5
4.5
43.0
2.0
43.2
1.8
44.3
1.9

Sta	+	π	-	Elev
-----	---	-------	---	------

		946.19		
--	--	--------	--	--

4+08				
------	--	--	--	--

+34				
-----	--	--	--	--

+62				
-----	--	--	--	--

5				
---	--	--	--	--

+25				
-----	--	--	--	--

+49.41 P.I.				
-------------	--	--	--	--

6				
---	--	--	--	--

+50				
-----	--	--	--	--

7				
---	--	--	--	--

July 11, 1956

5

44.6

1.6

39.8

6.4

37.2

9.0

35.5

10.7

35.6

10.6

40.8

5.4

35.4

10.8

34.5

11.7

34.6

11.6

Sta + π - Elev

946.19

7+50

8

+50

9

+50

10

TP 4.37 942.65 7.91 938.28

+23.89 P.I.

+52

11

July 11, 1956

6

35.0

11.2

35.9

10.3

35.8

10.4

35.1

11.1

34.7

11.5

34.9

11.3

34.8

7.9

34.5

8.2

34.9

7.8

Sta + π - Elev

942.65

11+10.45 P.I.

+53

+99.31 P.I.

12+50

13

+50

14

+44.57 P.I.

+75

July 11, 1956

7

35.2

7.5

34.0

8.7

34.5

8.2

35.0

7.7

35.3

7.4

35.0

7.7

34.1

8.0

34.1

8.6

34.4

8.3

Sta + π - Elev

942.65

15

+50

+82.70 P1

16

+32

+76

17

+50

18

July 11, 1956

8

34.1

8.6

34.2

8.5

34.7

8.0

35.3

7.4

34.3

8.7

34.2

8.5

34.1

8.6

33.1

9.6

33.3

9.4

Sta + π - Elev

942.65

18+31 $\neq$ Ditch

TP 11.33 946.91 7.07 935.58

+31 F.L. 30" S.C.P. No End - Vit S_o End

+38

+62

19

+40

+49

+68.05 = 0+00

July 11, 1956

9

34.4 7

8.3

Top Culvert outlet 32.53

14.38
11' Lt

11.88
2.5
14.38

35.8

11.1

37.1

9.8

39.1

7.8

39.3

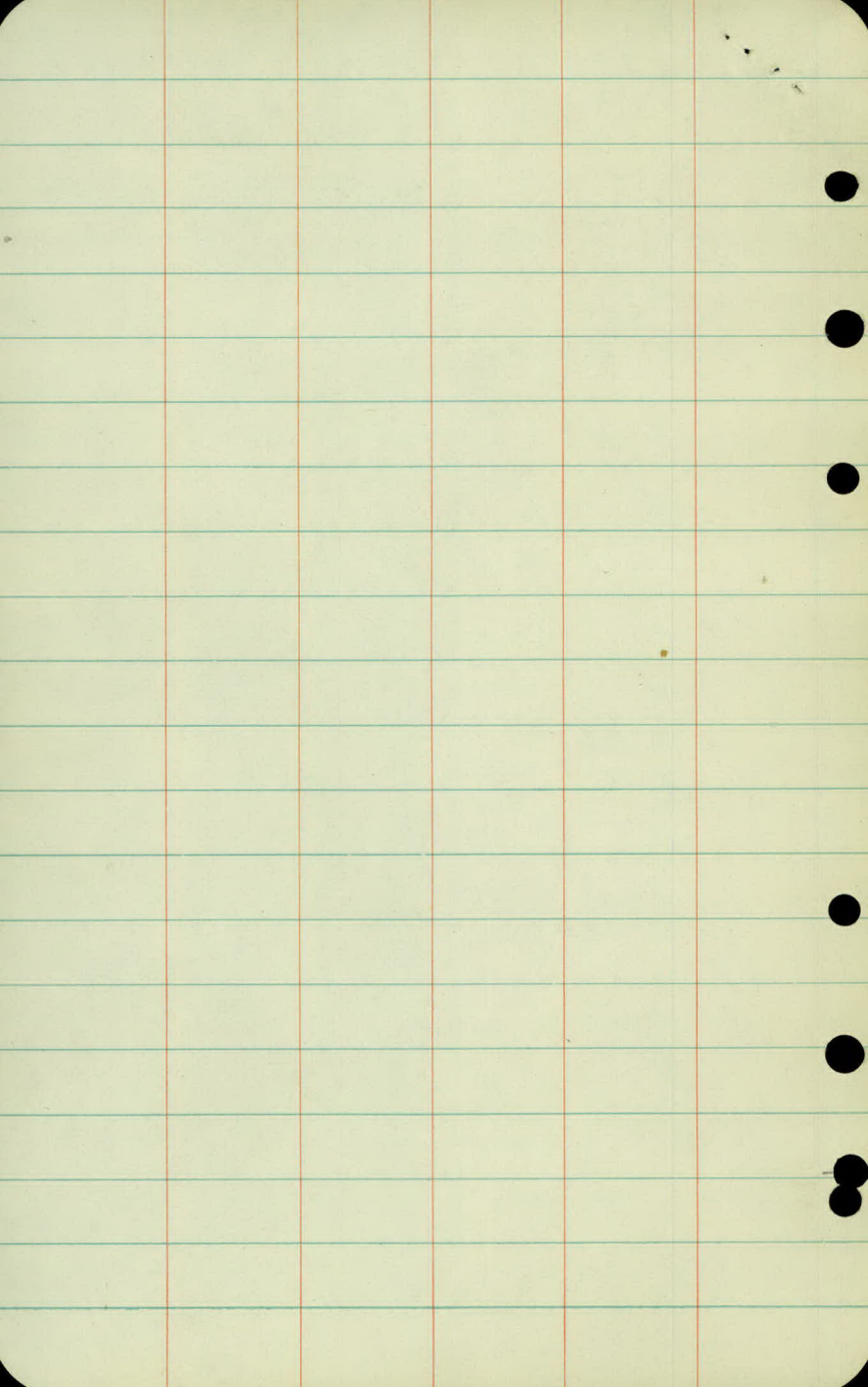
7.6

36.8

10.1

940.09

6.82 Iron



KPM
JS T
FS P

5 MARCH 1964 1.
SUNNY 100

STADIA ISLAND LAKE ACQUISITION

25 PAGES

SW Cor 956 F 1095
S 26-T 30-R 23

A 585 S 4 Cor
Section
26-T 30
R-23

ECG. 3-11-64-L.A

OBJECT

AZ.

STADIA

T AT 5 1/4 COR

SECTION 26-T30

R 23W

TO CTR SEC 26

000

T30-R23

TO APT A

270° 0 1/2'

CHECK AZIMUTH

129° 25'

BM

3.62

HI

955.78

(952.16)

Shore
line

2° 55'

"

329° 35'

"

306° 30'

"

298° 55'

"

294° 50'

"

294° 50'

CHECK
AZIMUTH

129° 25'

5 MARCH 1964 2.

DIST	VERT ANGLE	ROD EQUIV	ROD DIFF	ELEV.
------	---------------	--------------	-------------	-------

h1 5.3 950.5

585

S.W. Edge of chimney of Queen Lake School
Building. (NEW School)

OUTLET AT ISLAND LAKE PUMP HOUSE

h1 5.3

95 11.3

110 11.4

160 11.5

205 11.4

230 11.5

264 11.4

OBJECT

AZ

STADIA

HI 955.8

T at 5 1/4 Cor

S 26-T 30-R 23

h 15.3

CHECK
AZIMUTHShore
line

129° 25'

298° 40'

303° 00'

304° 15'

306° 35'

312° 30'

316° 05'

317° 45'

318° 10'

319° 30'

320° 35'

322° 40'

323° 20'

324° 10'

325° 05'

5 MARCH 1964

3.

DIST	VERT ANGLE	ROD EQUIV	ROD	DIFF	ELEV.
------	---------------	--------------	-----	------	-------

950.5

270

11.3

280

11.4

270

11.3

260

11.3

250

11.3

264

11.4

280

11.4

304

11.4

350

11.4

400

11.2

450

11.0

490

11.2

536

11.2

574

11.3

OBJECT

AZ

STADIA

HI 955.8

SHORE
LINE

325°05'

"

324°35'

GE

323°20'

N.E. COY BARN

323°20'

S.E. " "

321°00'

GE

317°00'

"

316°20'

"

315°20'

"

315°15'

N.E. COY SHED

314°05'

S.E. " "

312°35'

GE

307°00'

S.W. COY SH

309°10'

TO APT B.

301°14'

AT APT B.

HI 960.2

TO S 1/4 COR.

121°14'

TO APT A

228°44' 315

TO S 1/4 COR.

DIST	VERT ANGLE	ROD EQUIV	ROD	DIFF	4. ELEV.
600			11.0		
666			11.0		
674			9.3		
588			9.3		
560			8.9		
510			5.0		
480			4.9		
410			4.0		
385			4.1		
390			3.5		
370			3.2		
350			2.9		
380'			1.9		
409			0.7		955.1
409M			h1 5.1		
	+0°30'		2.56		

OBJECT

AZ

STADIA

HI 960.2

T at A PT B

GE	116°55'
Shoulder	149°40'
± Rd.	153°30'
Shoulder	157°45'
GE.	178°00'
"	208°20'
"	223°40'
"	235°55'
to Cor.	
GE	254°05'
"	250°00'
"	241°15'
"	225°35'
"	189°15'
Shoulder	148°50'
± RD	140°45'
Shoulder	135°20'

5 MARCH 1964 5.

DIST	VERT ANGLE	ROD EQUIV.	ROD	DIFF	ELEV.
------	---------------	---------------	-----	------	-------

955.1

62

7.7

116

7.7

113

7.6

109

7.2

98

9.0

108

11.6

130

12.1

164

11.4

140

12.2

130

13.0

97

12.5

70

11.0

51

9.4

60

7.7

63

7.4

69

7.6

41 960.2

OBJECT

AZ

STADIA

T at APT B

GE

96°30'

± RD

104°00'

Shoulder

110°55'

GE

190°00'

"

258°55'

"

261°45'

"

264°55'

"

265°55'

" Fe

267°00'

" Fe

280°40'

GE

282°10'

"

283°40'

"

285°00'

"

291°00'

"

332°35'

Shoulder

2°15'

± RD

22°25'

GE

54°35'

SW cor

60°35'

Bldg.

5 MARCH 1964 6.					
DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
					955.1
43			6.0		
24			6.9		
14			6.9		
5			5.2		
24			5.7		
52			7.5		
81			8.7		
108			10.2		
141			11.3		
128			9.0		
113			7.5		
104			5.0		
92			4.3		
70			4.2		
23			4.6		
21			6.1		
24			6.2		
48			5.8		
63			6.4		

OBJECT

AZ. STADIA

T AT APT B H1 960.2

TO S $\frac{1}{4}$ Cor.

121°14'

h1 5.1

NW COR
BLDG.

42°25'

GE

21°30'

RD

356°50'

Shoulder

GE

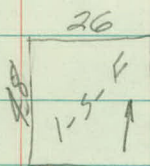
343°25'

GE

335°10'

"

316°20'

SE COR
HOUSE

302°50'

SW COR
HOUSE

295°35'

GE

290°55'

NE COR

HOUSE

322°45'

GE

332°55'

RD

339°05'

GE

346°20'

"

3°50'

"

1°00'

GE

348°40'

RPL
JST
FS#

VERT.
ANGLE

ROD
EQUIV.

6 MARCH 1964
CLOUDY 15°
ROD DIFF.

7.
ELEV.

955.1

409

9.7

950.5

80

7.1

50

5.6

45

5.4

48

5.2

50

3.7

64

3.8

86

3.4

112

3.9

139

7.5

120

4.2

106

5.1

104

5.6

104

3.3

106

7.1

166

9.5

163

8.4

OBJECT

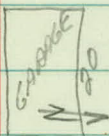
AZ. STADIA

HI 960.2

GE

342°50'

NE COR
GARAGE

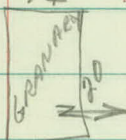


327°30'

SE COR
GARAGE

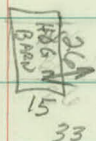
325°30'

SE COR
GRANARY



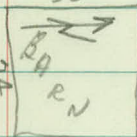
328°30'

SE COR
HOG BARN



337°45'

SW COR
BARN



353°55'

SE COR
BARN

0°05'

TO Δ PT. C

340°30'

TO Δ PT. B

160°30' 332

TOT Δ PT. C H 1 954.3

5.2

Shore
line

31°20'

342°00'

340°45'

6 MARCH 1964

8.

DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
------	----------------	---------------	-----	-------	-------

163

6.5

180

5.4

174

5.6

184

5.1

202'

5.2

228'

7.9

226'

9.6

328

11.05

949.15

+1.0

5.0

955.1

50

9.6

74

9.7

115

9.9

OBJECT

AZ.

STADIA

41 954.3

SHORE
Line

340°20'

"

338°50'

"

339°45'

"

350°00'

"

356°45'

"

5°50'

"

14°20'

"

20°45'

"

27°30'

"

31°30'

"

33°45'

"

34°10'

"

31°45'

"

31°25'

"

31°55'

GE

29°45'

"

23°00' 500

"

26°50'

DIST.	VERT.	ROD	6 MARCH 1964	9.
	ANGLE	EQUIV.	ROD.	DIFF. ELEV.
171			9.7	
232			9.7	
279			9.8	
316			9.7	
323			9.9	
308			9.8	
281			9.9	
284			9.7	
299			9.8	
325			9.7	
371			9.9	
404			9.7	
464			9.8	
512			9.9	
535			9.9	
520			7.4	
	+0°45'		3.0	
448			3.7	

OBJECT

AZ.

STADIA

HI 954.3

SE COR.

HOUSE

22°45'

SW COR

HOUSE

19°25'

GE

17°55' 395

"

27°25'

"

30°30'

"

28°55'

"

24°55'

"

20°30'

"

17°30'

"

13°30' 379

"

13°25'

"

4°25'

"

4°15' 379

"

357°05' 385

"

355°35' 392

"

353°40' 399

SE COR

HOUSE

353°40'

6 MARCH 1964 10.

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
410			3.4		
402			0.0		
	+0°35'		3.0		
422			5.1		
419			7.4		
376			7.2		
336			4.2		
329			3.2		
374			1.6		
	+0°30'		3.9		
344			4.0		
364			3.3		
	+0°25'		2.9		
	+0°25'		3.9		
	+0°25'		5.1		
	+0°25'		3.9		
372			4.9		

OBJECT

AZ.

STADIA

HI 954.3

GE
SW COR
HOUSE

358°30'

346°40'

GE

341°50'

"

345°00' 405

"

340°10' 395

"

334°30' 400

"

335°20'

"

324°50'

"

316°15'

"

312°25'

"

302°35'

"

298°45'

"

292°50'

E

10' Rd

309°40'

"

297°05'

"

169°40'

"

157°00'

GE

120°00'

6 MARCH 1964

11.

DIST.	VERT ANGLE	ROD EQUIV.	ROD.	DIFF.	ELEV.
365			4.7		
354			4.7		
346			6.5		
	+0°20'		3.0		
	+0°20'		8.4		
	+0°20'		8.4		
308			5.0		
164			2.3		
102			5.4		
59			5.4		
58			5.6		
56			7.1		
40'			6.7		
86'			5.6		
28			5.2		
24			4.2		
75			1.2		
82			1.3		

OBJECT

AZ

STADIA

HI 954.3

GE

110°55'

"

52°50'

"

186°25' 172

"

192°20' 132

"

189°55' 63

"

238°15'

T at Δ PTC HI 954.27TO Δ PT B 160°30'TO Δ PT D 247°14' 516

Tp 12.05 961.45 4.87 949.40

Tp 6.98 965.52 2.91 958.54

2.79 962.73

h15.1

T at Δ PT D HI 967.83

h15.1

To Δ PTC 67°14'

Check

AZIMUTH

335°58½

DIST.	VERT. ANGLE	ROD EQUIV.	6 MARCH 1964 ROD	DIFF	12. ELEV
-------	----------------	---------------	---------------------	------	-------------

48

2.7

17

6.1

+2°30'

7.0

+2°30'

6.5

+2°30'

4.2

25

5.5

11.
5.12

949.15

+1°20'

3.57

Spike in ground.

Top of Rock

A P T D

POST HOLDING AIRCRAFT WARNING LIGHTS
CONTROL DATA WATER TOWER.

OBJECT

AZ

STADIA

1.2
1.2
9.4

HI 967.83

π at APT D

GE

118°30' 436

"

107°10' 384

"

89°30' 354

"

73°20' 395

11

66°25' 414

11

57°15' 402

"

50°10' 422

"

43°50'

"

36°35'

"

19°20' 578

"

11°25' 552

"

22°55'

"

29°00'

"

41°15' 296

"

48°10' 266

Fence

42°25' 290

11

51°45' 352

DIST.	VERT ANGLE	ROD EQUIV.	6 MARCH 1964		13
			ROD	DIFF	ELEV.
					962.72
	-1°13'		8.2		
	-1°13'		9.4		
	-1°35'		11.8		
	-1°35'		11.5		
	-1°35'		10.7		
	-1°35'		7.5		
	-1°35'		3.4		
454			10.7		
506			13.1		
	-0°09'		8.9		
	-0°09'		12.5		
468			3.6		
393			8.8		
	-1°30'		11.5		
	-2°25'		11.0		
	-2°25'		8.0		
	-2°25'		5.3		

OBJECT

AZ

STADIA

H/ 967.83

GE

68°45' 232

"

88°15' 231

"

104°25' 254

"

120°20' 288

R R/W

128°45' 345

" "

136°40' 290

GE

125°40' 228

"

108°50' 190

"

90°20' 166

"

66°50' 164

"

45°45' 196

Fence

32°10' 251

GE

26°50' 282

"

20°15' 335

"

12°45' 435

"

8°30' 544

0°05' 537

359°35' 464

6 MARCH 1964

14.

DIST.	VERT. ANGLE	ROD EQUIV	ROD	DIFF	ELEV.
	-2°25'		11.7		
	-1°10'		12.7		
	-1°00		4.8		
	-1°00		10.4		
	-1°00'		5.6		
	-1°00'		12.1		
	-1°00'		9.4		
	-1°00'		1.5		
	-1°00'		6.8		
	-2°00		11.0		
	-3°00'		11.6		
	-3°00'		6.4		
	-3°00'		1.1		
	-1°00'		3.7		
	-1°00		7.1		
	-1°00		6.4		
	-1°00		5.5		
	-1°00		8.9		

OBJECT

AZ

STADIA

967.83

GE

359°55' 344

"

359°50' 247

Fence

0°45' 205

GE

3°50' 132

"

26°50' 179

"

43°45' 186

"

58°25' 199

"

59°25' 133

"

99°25'

"

137°05'

"

150°20'

RR
R/W

151°50' 250

"

172°30' 210

GE

170°55' 125

"

166°00' 44

BM

4.32 963.51

DIST	Vert angle	Rod equiv	6 MARCH 1964		15. Elev
			ROD	DIFF	
	-1°00		9.6		
	-1°00		5.1		
	-1°00'		8.8		
	-1°00'		12.7		
	-3°00		11.8		
	-3°00		11.7		
	-3°00		11.8		
	-1°00		11.3		
48			6.9		
76			9.0		
124			9.6		
	-1°35'		12.0		
	-1°00		12.1		
	-1°00		9.9		
44			5.4		
TOP ROCK 20' E APT D					

OBJECT

AZ

STADIA

BM

A.32 967.83

(962.51)

HI

T AT APT D

TO CONTROL DATA

WATER TOWER

335°58'2

G.E.

26°55'

18°45'

17°50'

13°05'

12°10'

8°25'

8°25'

1°50'

1°50'

357°50'

357°50'

353°16'

353°55'

353°55'

KP
 FS
 DIST. VERT. ROD 9 MARCH 1964 16.
 ANGLE EQUIV SUNNY DARE ELEV.

TOP OF ROCK 20' E OF A PT D

962.73

hi

5.10

720

17.8

630

14.6

720

13.0

635

11.3

680

9.4

620

12.3

665

7.8

610

11.6

640

8.1

620

11.2

650

9.5

645

16.1

620 - 1°0'

2.9

535 - 1°0'

6.1

HI 967.83
OBJECT AZ STADIA

GE

353°50'

"

353.30

"

354°00'

"

349°35'

"

336°05'

"

388°30'

"

212°20'

"

200°15'

RR/RW

191°40'

"

104°10'

G.E.

201°55'

"

230°00'

"

288°50'

"

321°20'

F₂ GE

331°40'

"

339°20'

"

343°40'

"

347°10'

"

349°10'

9 MARCH 1964					
DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF	17. ELEV.
395	-1°0'		9.0		
270	-1°0'		5.7		
205	-1°0'		9.3		
210	-1°0'		10.4		
144	-1°0'		11.4		
45			6.0		
95			5.7		
140			11.0		
215			13.1		
233			10.2		
185			10.7		
136			7.1		
110			8.3		
176	-1°30'		11.0		
225	-1°30'		10.0		
290	-1°30'		3.3		
380	-1°30'		1.3		
438	-1°30'		2.7		
540	-1°00'		1.9		

OBJECT

AZ

STADIA

H.I. 967.83

GE

GE

350°40'

"

"

350°50'

"

"

343°40'

"

"

342°42'

"

"

340°55'

"

"

338°50'

"

"

334°40'

"

"

328°45'

Fe GE

"

315°50'

"

"

303°30'

"

"

283°30'

"

"

260°45'

"

"

236°55'

RR/RW

221°30'

" "

234°45'

GE

242°30'

"

260°25'

"

258°40'

DIST	VERT ANGLE	ROD EQUIV.	9 MARCH 1964		18
			ROD.	DIFF	ELEV.
620	-1° 00'		3.4		
660	-1° 00'		2.2		
670	-0° 30'		5.4		
645	-0° 30'		9.0		
580	-0° 30'		8.8		
517	-0° 30'		6.5		
430	-0° 30'		8.0		
356	-0° 30'		9.3		
270	-1° 30'		11.0		
216	-1° 30'		11.2		
190			12.7		
195			12.5		
228			7.8		
290			10.1		
380			11.5		
340			8.9		
305			9.0		
235			13.0		

OBJECT

AZ. STADIA

GE.

372°40'

"

364°50'

"

380°45'

Fe GE

298°30'

"

307°00'

"

315°20'

"

321°20'

"

325°00'

"

328°40'

"

330°35'

"

325°35'

"

323°55'

"

318°40'

"

314°35'

"

306°55'

Fe GE

292°20'

"

280°20'

"

264°20'

251°25'

DIST.	VERT. ANGLE	ROD EQUIV.	9 MARCH 1964		19
			ROD	DIFF	ELEV.
235			14.5		
314			9.2		
328	-1°30'		7.0		
375	-1°30'		8.3		
430	-1°30'		3.1		316
495	-1°00'		4.0		
585	-1°00'		5.0		
620	-1°00'		2.9		
710			13.0		
740			11.3		
790			11.7		
740	-0°30'		9.50		
660	-1°00'		5.6		
610	-1°00'		7.7		
540	-1°00'		5.7		
455	-1°00'		6.0		
435	-2°00'		6.0		
420	-1°00'		10.7		
440			9.8		

OBJECT

AZ STADIA

Fe. G.E.

542° 35'

Fe. "

244° 10'

Fe. "

253° 25'

"

260° 45'

"

275° 55'

G.E.

280° 05'

"

285° 00'

"

292° 05'

"

297° 20'

COR.
2nd G.E.

290° 40'

"

294° 35'

"

299° 55'

"

308° 05'

"

314° 40'

"

318° 20'

"

322° 30'

"

323° 50'

"

321° 50'

"

319° 30'

DIST.	VERT ANGLE	ROD EQUIV.	9 MARCH 1964		20 ELEV.
			ROD	DIFF	
470			13.6		
488			13.2		
464			12.3		
453			15.7		
450	-1° 30'		11.1		
425	-1° 30'		9.6		
405	-1° 30'		9.0		
382	-1° 30'		9.5		
367	-1° 30'		9.1		
485	-0° 30'		9.9		825
500	-0° 30'		8.3		500
522	-0° 30'		11.1		
580	-0° 30'		12.7		
652	-0° 30'		13.2		
696	-0° 30'		13.6		
770	-0° 30'		10.5		
810	-0° 30'		8.4		
820	-0° 30'		10.0		
780	-0° 30'		13.3		

OBJECT HI 967.83 AZ STADIA

G.E. 315°10'

G.E. 310°00'

" 301°35'

" 290°30'

" 280°50'

π at Δ PT D HI 967.82

TO Centro 1 Data 335°58½

BM 4.31967.82

TO Δ PT A 132°21'

h 5.1

TO Δ PT E 285°00'

π at Δ PT E HI 959.9 h 5.05

TO Δ PT D 105°00'

G.E. 143°40'

" 163°15'

" 169°15'

171°00'

Fe 173°00'

9 MARCH 1964

21

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF	ELEV.
770	-1° 00'		9.8		
660	-1° 00'		10.4		
670	-1° 00'		9.6		
552	-0° 30'		9.5	287	
430	-0° 30'		12.0	287 574	

962.73

TOP ROCK 20'E ΔPT D					963.51
480			7.65		960.17
574			12.97		954.85

954.85

574	+0° 30'		2.2		
62			8.3		
133	-2° 30'		10.8		
206	-1° 00'		8.6		
287			8.3		
362			9.4		

HI 959.9

OBJECT AZ STADIA

Fe G.E	185°50'
"	187°30'
"	189°00'
"	194°15'
"	213°15'
"	284°50'
"	333°00'
"	345°35'
"	348°50'
"	353°30'
"	347°20'
"	348°10'
"	350°55'
"	351°10'
"	340°10'
"	339°20'
"	335°00'
"	321°20'
"	301°55'

9 MARCH 1964 22

DIST	VERT ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
365			16.4		
283	-1° 00'		9.7		
234	-1° 00'		10.5		
158	-2° 00'		12.0		
84			8.9		
50			6.7		
112			8.7		
222	-1° 00'		12.4		
293	-1° 00'		10.5		
330	-1° 00'		11.5		
338	-1° 00'		10.2		
385	-1° 00'		9.8		
452	-1° 00'		6.2		
498	-1° 00'		3.1		
506	-1° 00'		10.2		
480	-1° 00'		9.2		
396	-1° 00'		2.0		
268	-1° 00'		12.3		
178	-1° 00'		9.7		

HI 967.83

OBJECT

AZ STADIA

GE

269°40'

"

243°25'

"

320°00'

"

308°10'

To GE

200°25'

"

215°15'

"

220°05'

"

230°55'

"

261°25'

"

284°20'

"

303°50'

"

320°25'

"

325°20'

"

332°40'

"

333°50'

"

327°40'

"

318°35'

"

312°10'

"

292°40'

9 MARCH 1964 23

DIST.	VERT ANGLE	ROD EQUIV	ROD	DIFF	ELEV.
144	-1° 00'		10.1		
155	-1° 00'		10.0		280
206	-3° 00'		17.2		11
290	-3° 00'		4.0		
386	-1° 30'		5.3		
436	-1° 30'		8.9		
364	-1° 30'		11.4		
320	-2° 30'		12.3		
243	-1° 30'		8.2		
245	-1° 30'		10.9		
283	-1° 30'		10.7		2
364	-1° 30'		1.1		
404	-1° 00'		8.0		
500	-1° 00'		13.8		
560	-1° 00'		17.6		
560	-1° 06'		11.0		
430	-1° 00'		9.1		
378	-1° 00'		5.7		
320	-1° 00'		12.9		

HI 967.83
OBJECT AZ STADIA

GE 282°25'

" 265°50'

" 239°50'

" 227°55'

To GE 220°15'

To A-F 201°09'

TP 5.87 962.78 10.92 956.91

TP 10.10 952.68

At Δ P F

To Δ P F 21°09'

To Δ P T A 88°22½ 1095°

To SW Cor Section HI 965.4

At Δ P T A

To Δ P F 268°22½

BM 10.30 965.4

HI 965.4 h 15.1

(955.1)

DIST.	VERT ANGLE	ROD EQUIV	9 MARCH 1964		24
			ROD	DIFF	ELEV.
295	-1° 00'		11.7		
284	-1° 00'		9.9		
335	-2° 30'		12.0		11 25
387	-2° 30'		7.1		1366 11
460	-1° 30'		6.3		266
532	-0° 30'		11.25		201.09 <u>1.88</u>
Spike in ground					621.09
Δ PT F					

1094.89M +1° 00' 8.85

956.21M

1095 -0° 30' 11.4

TOP NAIL Δ PT B

OBJECT

H1

965.4

AZ

STADIA

Tgt A Pt A

RR
Ditch

275°35' 1100

276°20' 940

276°05' 840

276°50' 736

278°05' 632

279°50' 536

282°05' 434

285°50' 336

291°00' 253

304°10' 163

338°50' 99

31°00' 109

58°20' 180

69°35' 276

71°20' 302

Dr.
L Rd

TP + 0.78 957.22- 8.96 956.44

BM

4.96 952.26 (952.14)

KP DS
 FS
 DIST VERT ANGLE ROD EQUIV ROD DIFF ELEV.

11 MARCH 1964 25
 SNOW FLURRIES

960.3

-0° 45' 8.3

-0° 30' 11.5

-0° 30' 10.0

-0° 30' 10.3

-0° 30' 10.5

-0° 30' 10.8

-0° 30' 11.2

-1° 00' 9.2

-1° 00' 10.6

-1° 00' 11.5

-1° 00' 12.5

-1° 00' 12.3

-1° 00' 11.0

-1° 00' 9.3

12.3

956.44

outlet at island Lake Rumphouse

