

1486



FIELD BOOK

No. 255F

glass 12" x 10"

375
1558
125
312

MICROFILMED
DEC 24 1964

93042	800K
36	147 1/2
	147 1/2
558258	335
279126	147 1/2
33,49512	582 1/4
298,21	147 1/2
131,70	710
	759
	40
	49

CITY OF
SAN DIEGO,
CALIFORNIA,
ENGINEERING DEPARTMENT,

250 Rec
544 1/3
11 28 3/4
5 44 1/3
17 13
15 44 1/3
22 57 1/3
544 1/3
26 41 2/3
544
34 26
544 1/3
40 10 1/4
5 41 2/3
45 544 1/3

547 1/3
104.133
K. 190
of 7'33 3/4
13125
101500

1000
49.86
99 72
103232
250
516160.0
206464
258080.0

190) 280
13115.8
2481340
99252

Our Leather Bound Engineers Note Books are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

14054 105.00 (700
13053) 105.00 (700
155

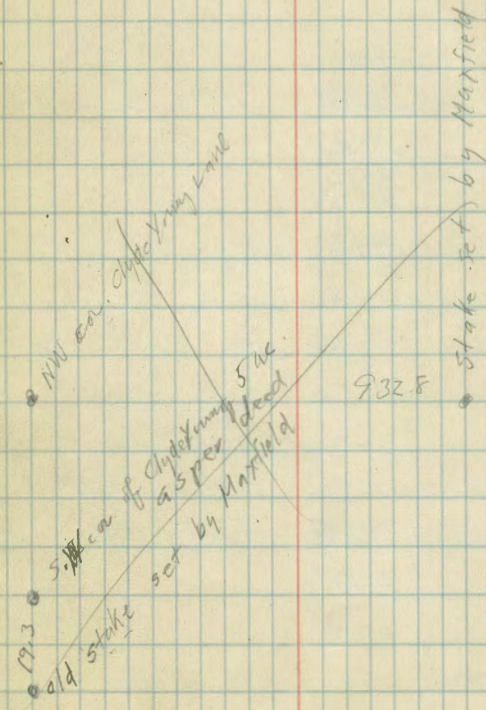
144.86
53
145.40

150.1
19
135.09
150.1

28519.0
26136
23830

.65

Indexed to page 37
e.s.M.

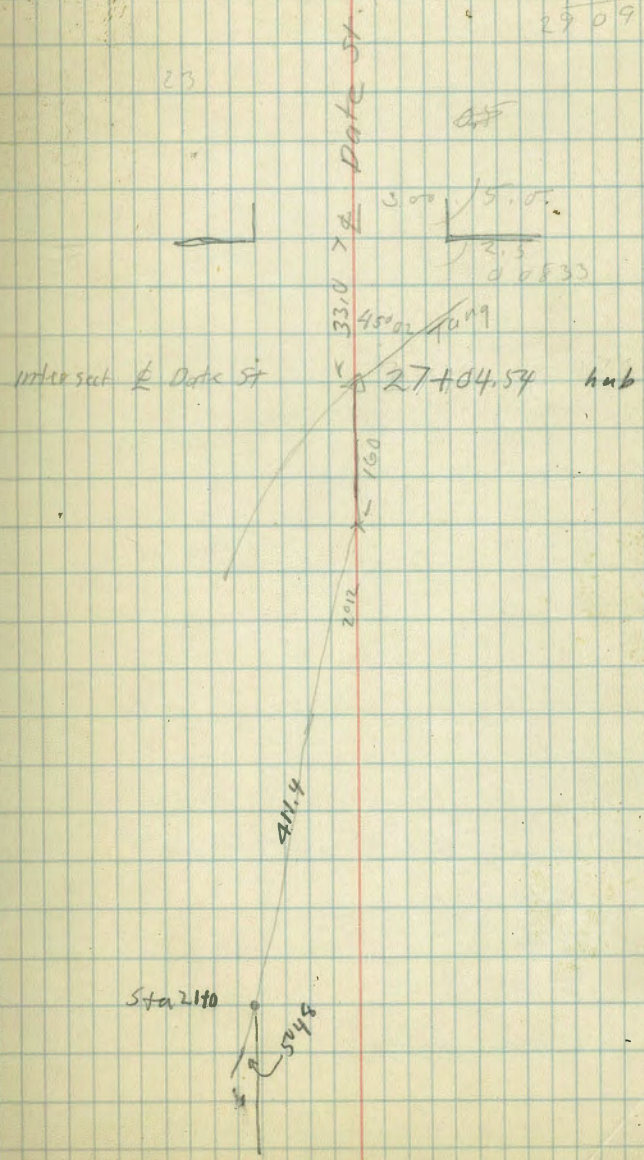


+50
 +10 FC. 55 29
 2 07 1/2
 19 53 21 1/2
 10 40 1/2
 +50 42 41 1/2
 10 40 1/2
 18 32 08
 10 40
 +50 21 20 1/2
 17 10 04 1/2
 16+50 BC 135 L
 EC
 16+40 EC
 +50 FC ~~dot on center line~~
 end of state line
 15+40
 +50
 14+40 43 35
 8 45
 +50 34 52
 13+0 P.O.C. 26 09
 +50 17 26
 12+0 8 41 1/2
 +50 BCC 165 R 23 56
 4 47
 11+0 19 09 ST. 133.15
 4 47 1/4
 +50 14 02 1
 4 47 1/4
 10+0 9 34 ST. 132 R.
 4 47 1/4
 +50 BE 300 R 4 47 1/4
 9+0 BC 300 R
 8+50

16+50 (15 1/2)
 16 5
 550
 525
 15+50 25 02 1/2 18 5 1/2
 13 5
 11 50
 10 80
 700
 675
 250
 10+50
 8 45
 20 09
 8 45
 39 52 03 70 3
 13+50 500
 400
 550
 795
 50
 35 x 5' Culvert

33° 56'
4 47
29 09

+04.54	33° 56'	
27	35° 30 7/4	
+50	28 43 1/2	
26	23° 56 1/4	
+50	19° 09'	
25 20	14 21 3/4	
+50	P.O.C. 9° 34 1/2	
24	4° 47 1/2	
+50	B.C. 300 R	
23	E.C. 9° 34 1/2	
+50	4° 47 1/2	ST = 50.60
22	B.C. 300 L	
+50		
21		
+50		
20		



B Line

S. Line of parking area

4

3+0

750

2+0

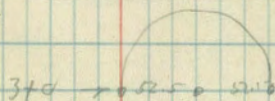
+70 54026 E.C

+50 4806

1 3204

+50 16002

0+0 BC=90 L B.C



$$(A) \\ 0.7 + 41.16 = 0+0$$

C Line

+ 20.5

~~+ 20.5~~

+ 09

2+0

1+56.5

1+50

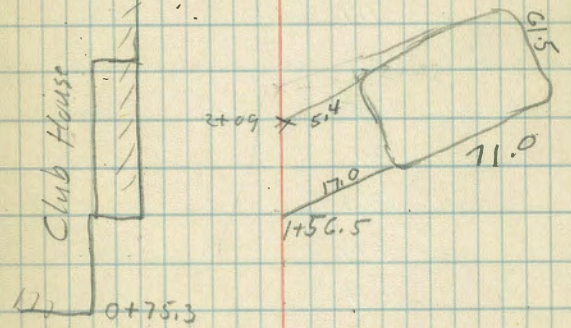
1+0

0+75.3

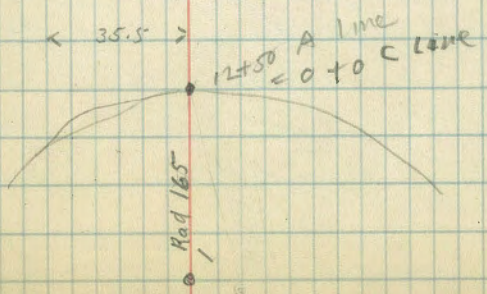
+ 50

0+0

2+20.5 < 35.5 >



< 35.5 >



	+	-	H. I.	Elev	
BM	3.34		227.71	224.57	old hub near sta. 17+0
	2.27	3.97	226.91	223.74	
	7.20	2.88	230.33	223.13	
B.M.		8.68		221.65	on N.E. of curb about 100' N. of NW. cor. playgrounds
2+0		8.5		221.8	W.L. = base line
		7.4		222.9	♀
		7.3		223.0	E.L.
		8.2		222.1	old gutter 35 R.
+50		11.1		219.2	W.L.
		15.9		214.4	10' W.
		9.6		220.7	3' E.
		7.7		222.6	♀
		6.6		223.7	E.L.
		7.5		222.8	gutter 35 R.
+75		16.1		214.2	W.L.
		19.3		211.0	10' W.
		6.9		223.4	♀
		6.4		223.9	E.L.
3+0		13.0		217.3	10' W.
		8.6		221.7	W.L.
		6.3		224.0	♀
1	3.14	6.0		224.3	E.L.
		6.7		223.6	gutter 35 E.

H. 1
230.33

3450

6.0 224.3
8.4 224.9
5.7 224.6
6.3 224.0
5.3 225.0
5.3 225.0

440

5.2 225.1
5.6 224.7
4.7 225.6
4.3 226.0

450

5.0 225.3
5.1 225.2
4.3 226.0
3.2 227.1

510

4.4 225.9
4.8 225.5
5.0 225.3
4.4 225.9
3.7 226.6

5450

5.0 225.3
5.0 225.3
5.8 224.5
4.9 225.4
4.6 225.7

7

on corner W.L

10' L
♀ 15 R

2.6 R gutter

2.6 R sod

FL 30 R

W.L

10 F Edge of road

♀

FL

W.L

6 R

15 R

30 R

W.L

15 R

18 R

19 R

30 R

W.L

15 L

27 L gutter

28 L

30 L

	+	-		
6+2		9.3	HJ	221.0
		7.8		222.5
		7.7		222.6
		8.2		222.1
0		7.20		223.19
	3.10			226.23
6+50		14.0		211.6
		7.7		218.5
		7.2		219.0
		6.4		219.8
		7.0		219.2
		6.4		219.8
7+0		17.5		208.7
		10.4		215.6
		8.5		217.7
		9.9		216.3
		8.6		217.6
7+23		10.50		215.7
		12.27		213.96
		13.20		212.3
7+50		13.7		212.5
		8.8		217.4
		8.8		217.4
		8.6		217.6
		9.7		216.5
		9.7		216.5

W.L.
15.4
30 L
32 L gutter

10' L
W L
Q
30 R
35 R gutter
30 R green
10' L

W L
4' R
Q
30' R

Drain FL E. end 10" pipe

Gullies Catch basin 9' R of W L ^{Size} 18"x20"
" discharge 3' L of W L
10 L of W L

W L
Q
30' R
34 R
40 R

H I
224.23

8+00	8.1	218.1	14' L
	6.6	219.6	10' L
	6.1	220.1	5' L
	7.2	219.0	3' L
	7.0	219.2	WL
	6.8	218.4	Q
	7.1	219.1	25' R of WL
	5.9	220.3	27' R " "
	5.4	220.8	30' R
8+50	5.0	221.2	8' L
	6.0	220.2	10' L
	4.8	221.4	WL
	4.8	221.4	12' R
	5.8	220.4	13' R
	4.3	221.9	15' R
	3.2	223.0	18' R
	2.9	223.3	30 R = EL
9+00	3.7	222.5	10' L
	3.8	222.4	WL
	4.1	222.1	15' R
	4.4	221.6	17' R
	2.2	224.0	22' R
	1.8	224.4	30 R = EL
9+50	3.6	222.6	10' L
	2.9	223.3	WL

	+	-	226.23	H I	E I
9+50 continued		2.0			229.2
		3.9			222.3
		9.4			221.8
		0.6			225.6
0	6.06	24.7	219.82		223.76
10+0		11.1			218.7
		9.2			220.6
		6.1			223.7
		6.0			223.8
		6.6			223.2
		7.0			222.8
		4.5			225.3
150		9.0			220.8
		7.2			222.6
		6.0			223.8
		6.2			223.6
		6.8			223.0
		3.8			226.0
11+0		10.4			219.4
		9.3			220.5
		7.0			222.8
		6.9			222.9
		6.6			223.2
		7.5			222.3
		4.0			225.8

2
 30 R = 21
 34 R
 40 R
 10 L
 W.L
 13 R
 15 R
 30 R
 36 R
 42 R
 W.L
 12 R
 15 R
 30 R
 39 R
 45 R
 W.L
 7 R
 14 R
 15 R
 30 R
 39 R
 45 R

11+50	11.6	218.2	2 L
	10.1	219.7	W.L
	7.6	222.2	4R
	6.9	222.9	15R
	7.1	222.7	30R
	8.2	221.6	40R
	5.1	224.7	46R
12+0	7.9	221.9	10 L
	7.8	222.0	W.L
	7.3	222.5	15 R
	7.5	222.2	30R
	8.4	221.4	35 R
	6.2	223.6	42. R
11+95	7.90	221.92	35 R on can. intake 8" cubes
12+50	7.3	222.5	W.L
	6.8	223.0	15 R
	7.7	222.1	30 R
	4.5	225.3	40 R
13+0	5.4	224.4	W.L
	5.8	224.0	15 R
	6.7	223.1	22 R
	3.5	226.3	30 R
	3.0	226.8	33 R
B.M	5.45	224.37	original B.M.

73+50

5.3 224.5
 5.7 224.1
 6.4 223.4
 4.4 225.4
 3.0 226.8

14+0

8.8 221.0
 5.9 223.9
 5.9 223.9
 6.8 223.0

+50

11.1 218.7
 8.6 221.2
 6.2 223.6
 7.0 222.8

15+0

10.3 219.5
 8.7 221.1
 6.7 223.1
 7.8 222.0

15+50

10.1 219.7
 7.4 222.4
 7.7 222.1
 8.3 221.5

16+0

8.3 221.5
 8.4 221.4
 9.1 220.7
 7.4 222.4
 7.2 222.6

W.L.

15 R

22 R

30 R

37 R

W.L. = F.L.

15 R

30 R

40 R gutter

W.L. = F.L.

15 R

30 R

47 R gutter

W.L. = F.L.

15 R

30 R

46 R gutter

W.L. = F.L.

15 R

30 R

39 R gutter

on hub W.L. = F.L.

15 R

24 R

25 R

30 R

0	2.52	8.32	224.02	221.50	on hub sta 1670
16750		3.1		220.9	WL = FL
		4.0		220.0	15 R
		2.5		221.5	16 R
		2.0		222.0	30 R
1770		4.2		219.8	WL = FL
		4.2		219.8	15 R
		4.5		219.5	21 R
		2.3		221.7	30 R
17750		6.8		217.2	WL = NL
		6.4		217.6	15 R
		5.4		218.6	30 R
B.M		6.55		217.47	N.W. curb end of steps
1870		9.8		214.2	N.L
		7.5		216.5	15 R
		7.2		216.8	30 R
18710		12.7		214.3	N.L
18715		10.4		213.6	N.L
		9.2		214.8	30 R
18750		12.5		211.5	N.L
		12.0		212.0	15 R
		10.5		213.5	30 R
1970		12.5		211.5	N.L
		7.2		212.8	15 R
		9.5		214.5	30 R

		224.02		
19+50		12.7	211.3	N.L
		11.6	212.4	15R
		9.7	214.3	30R
0	1.91	6.55	217.47	
20+0		7.5	211.9	N.L Drainage Ditch 6" deep
		6.6	212.8	15R
		4.7	214.7	30R
20+50		3.8	215.6	N.L
		3.4	216.0	15R
		2.9	216.5	30R
21+0		2.8	216.6	N.L
		2.4	217.0	15R
		1.9	217.5	30R
21+50		3.5	215.9	N.L
		3.5	215.9	15R
		3.1	216.3	30R
22+0		6.3	213.1	N.L
		5.7	213.7	15R
		5.4	214.0	30R
22+50		12.0	207.4	N.L
		10.2	209.2	15R
		8.7	210.7	30R
22+75		14.3	205.1	N.L
		12.3	207.1	15R
		10.2	209.2	30R

21936

23+0

		10.1		209.3	30 R
0	9.38	2.14	226.62	217.24	

23+50

		13.7		212.9	N.L
--	--	------	--	-------	-----

		12.6		214.0	15 R
--	--	------	--	-------	------

		11.5		215.1	30 R
--	--	------	--	-------	------

24		9.9		216.7	N.L
----	--	-----	--	-------	-----

		9.2		217.4	15 R
--	--	-----	--	-------	------

		8.7		217.9	30 R
--	--	-----	--	-------	------

+50		7.9		218.7	N.L
-----	--	-----	--	-------	-----

		7.4		219.2	15 R
--	--	-----	--	-------	------

		6.9		219.7	30 R
--	--	-----	--	-------	------

25+0		7.0		219.6	N.L
------	--	-----	--	-------	-----

		6.4		220.2	15 R
--	--	-----	--	-------	------

		6.0		220.6	30 R
--	--	-----	--	-------	------

25+50		6.5		220.1	N.L
-------	--	-----	--	-------	-----

		6.3		220.3	15 R
--	--	-----	--	-------	------

		5.8		220.8	30 R
--	--	-----	--	-------	------

26+0		7.8		218.8	N.L
------	--	-----	--	-------	-----

		7.3		219.3	15 R
--	--	-----	--	-------	------

		6.9		219.7	30 R
--	--	-----	--	-------	------

26.12

26+50	9.3	0	217.3
	8.8		217.8
	8.5		218.1
26+40	8.8		217.8
27+09.34	11.2		215.4
0	0.72	11.23	216.11
	3.8		212.30
	4.9		211.2
	8.34		207.7
	7.34		208.77

N.L.
15 R
30 R
N.L. E.L. park
N.L. & Date St on hub 33 W of E.L. 28th
on hub & Date 33 W of
E.L. 28 St. & Date
10' E of E.L. 28th
Curb S.W. cor Date & Grandly
" NW " " "

		B line along parking			
Line	+	-	H.I.	Elev	
	2.33		226.20	224.37	B.M. on ^{old} hub near Sta 10
BL 0+0		9.5			= 7+41.16
0+50		10.0			8-R
		7.2			8-R
		6.6			14-R
		7.7			15-R
1+0		7.4			E = S.L.
1+0		5.7			20-R
		5.5			40-R
1+50		7.4			
		6.4			10-R
		5.4			8-R
EC 1+70		9.0			
		6.4			15-R
		7.2			50-R
		16.3			105-R
2+0		9.3			
		6.1			15-R
		7.3			50-R
		17.0			105-R
BM O	3.62	8.75	221.57	217.95	on N. End. of culvert heading Sta. 7+0 A Line
2+50		3.4			
		1.6			17-R
		2.4			20-R
		3.3			58-R
		12.9			105-R

3+0
 5.0
 7.1
 3.9
 2.6
 4.2
 5.9
 6.3
 8.8
 13.8
 8.6
 13.7

A line
 9+50 8.3
 10+0 12.0
 10+50 9.3
 11+0 10.4

3 R
 20 R
 25 R
 50 R
 55 R
 70 R
 75 R
 105 R
 52.5 N. + 60 W of 3+0
 " + 75 W of 3+0

75 W of Sta
 75 W
 75 W
 75 W

C Line

	+	-	HI	Elev.
	3.34			224.27
0+0		5.3		
0+0		5.8		
		6.8		
		11.6		
		7.6		
		5.3		
		7.3		
0+50		7.0		
		7.0		
		6.9		
		9.4		
1+0		7.2		
		7.2		
		7.1		
		9.5		
1+50		7.3		
		7.4		
		7.4		
2+0		7.4		
2+20		7.0		

- 12+50 on A line

54 W

73 W

82 W

50 E

115 E

125 E

42 W

120 E

135 E

42 W

105 E

120 E

35.5 W

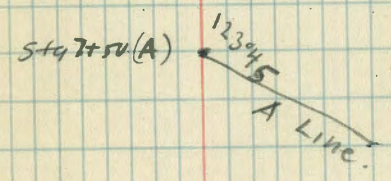
100 E

Stadia line on Line D. 15% grade

Interval	Hor. Ang.	Vent. Ang.	Dist.
Sta 1	4.45	0	+6'50"
	3.85	8°00' L	+5'50"
	3.30	17°00' L	+5'00"
	2.67	19°50' L	+4'50"
	1.80	29° L	+3'01"
	1.38	45° L	0
②	0.72	84°30' L	-4'40"
	1.80	94°50' L	-5'40"
	2.25	98°15' L	-6'40"
	2.96	101°20' L	-7'0"
	3.96	107° L	-7'20"

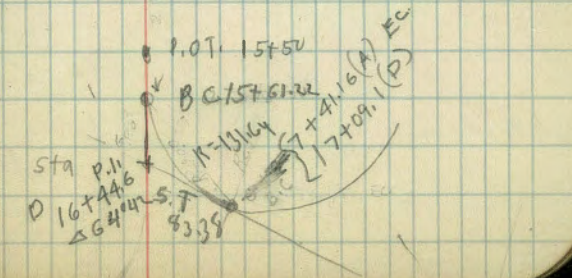
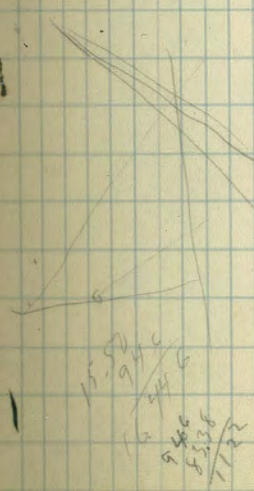
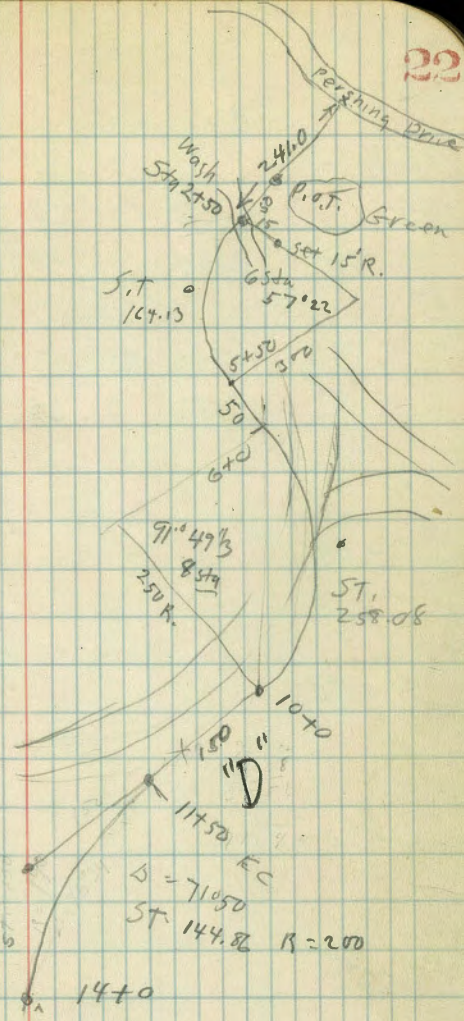
Sta 0

on 12% grade S. of of canon. b5 to Sta 755 (A)



	+	H. I	-	EL.	on N. End of Culvert near Sta. 7
<u>BM</u>	3.67	221.62		217.95	

Line D.



Station	B.C.	Defl.
1576122	38.78	
16740		8°28'
750		10 57
1770		19 35
17409.1		30 22
		32°21'

15.50
9.46
10.44
9.46
5.23
1.22

	+	HI	-	E	
	Cross sections		D	Line	
				Elev.	
B.M.				115.52	manhole cover on sewer connection with Clabbanse Lane.
T.P.	8.80	124.32	9.47	114.85	
T.P.	0.64	115.49			
B.M.			6.72	108.77	Hub & Marker on North Cor of Triangle
T.P.	1.30	110.07	12.16	97.91	Top of Rail at corner EL 97.91
T.P.	3.95	101.86			
B.M.			3.57	98.29	on Top Boulevard Stop Sign Parking Drive
			0.0	101.9	on top of Green
0+09			9.5	92.4	edge of pavement
			10.3	91.6	15' R
			8.8	93.1	15' L on pavement
0+50			10.0	91.9	15' R
			9.5	92.4	edge of pavement
			8.7	93.2	15' L
1+00			8.6	93.3	edge of pavement
			9.5	92.4	15' R
			8.0	93.9	15' L
1+50			10.0	91.9	edge of pavement
			9.9	92.0	15' R
			8.7	93.2	8' L
			7.9	94.0	15' L
			7.4	94.5	25' L
1+60			10.2	91.7	edge of pavement
			10.2	91.7	15' R
			8.7	93.2	5' L

101.86

1+60

7.6 94.3

15' L

7.1 94.8

25' L

2+00

6.2 95.7

±

8.6 93.3

15' R

9.4 92.5

22' R

11.4 90.5

27' R

10.8 91.1

30' R in Road

5.1 96.8

15' L

4.4 97.5

25' L

2+13

5.5 96.4

±

8.2 93.7

15' R

11.9 90.0

23' R

10.9 91.0

30' R in Road

3.3 98.6

15' L

2.5 99.4

25' L

2+41

9.9 92.0

±

8.6 93.3

15' L

6.7 95.2

25' L

14.2 87.7

8' R

14.4 87.5

15' R

14.7 87.2

28' R Bottom of concrete Culverts

12.0 89.9

28' R Top " " "

15.2 86.7

28' R Flowline Size 2' x 2' Culverts

11.0 90.9

32' R in road

101.86

2+50
B.C.

13.3	88.6
14.1	87.8
14.0	87.9
11.4	90.5
10.3	91.6
10.4	91.5
13.0	88.9
9.8	92.1
9.4	92.5

☒
15' R
20' R
23' R
30' R
40' R in road
6' L
15' L
25' L

2+63

13.3	88.6
12.0	89.9
10.1	91.8
10.1	91.8
13.1	88.8
12.6	89.3
9.9	92.0
9.3	92.6
9.8	92.1

☒
5' R
15' R
25' R
15' L
22' L
29' L
40' L

3+00

9.9	92.0
9.9	92.0
9.5	92.4
10.2	91.7
11.8	90.1
11.5	90.4

☒
15' R
25' R
15' L
25' L
32' L
40' L

101.86

3+50

9.1 92.8

9.2 92.7

8.9 93.0

9.1 92.8

8.9 93.0

8.6 93.3

4+00

8.5 93.4

8.4 93.5

7.3 94.6

8.5 93.4

8.8 93.1

4+50

5.8 96.1

5.1 96.8

4.8 97.1

6.0 95.9

6.8 95.1

7.9 94.0

8.4 93.5

5+00

4.1 97.8

4.0 97.9

4.0 97.9

3.1 98.8

4.4 97.5

4.4 97.5

5.8 96.1

±

15' R

25' R

15' L

25' L

35' L

±

15' R

20' R in road

15' L

25' L

±

15' R in road

20' R " edge

3' L "

6' L "

15' L

25' L

± in road

6' R "

15' R

25' R

15' L road

20' L "

28' L

N's road

S road

	+	101.86		
T. P.	7.95	105.86	3.95	97.91

5+50			8.0	
------	--	--	-----	--

7.0

5.6

7.1

6.9

6+0

5.4

3.9

6.7

5.4

5.1

6+50

2.5

1.2

3.3

5.0

3.5

3.0

7+0

0.1

0

10.11

115.83

0.14

105.72

7+0

8.7

7.6

7+50

5.9

5.9

6.7

Cor. pipe rail fence.

E

S S ROAD

4 R

15 R

3 L

15 L

E

15 R

2 L

5 L

15 L

E

15 R

8 L

10 L

12 L

15 L

~~15~~ 15 L

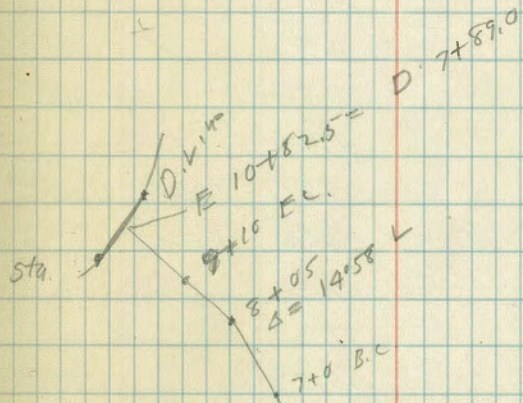
E

15 R

E

15 R

15 L



E.C. 2+75.

(E) 0+50

$\Delta = 32^{\circ}15'$

ST 115.64

B.C. 400 Rad. left

0+0(E) = 13+0 (A)

ac

25

	+	H.I.	+	FRV		
8+0		115.83	4.2		♀	
			4.7		6 R	
			6.5		8 R	
			4.7		10 R	
			4.0		15 R	
			3.8		15 L	
8+50			0.5		♀	♀ Road
			1.5		15 R	
			1.1		15 L	
CK B.M			7.05	108.78	108.77	
0	13.09	128.36	0.56	115.27		
9+0			7.3		♀	
			7.9		2 R	
			10.1		7 R	
			10.0		15 R	♀ Road
			3.9		15 L	
9+50			4.0		15 R	
			6.6		17 R	in gutter
0	10.15	137.63	0.88	127.48		
9+50			7.5		CL	
			2.5		15 L	
10+0			2.8		♀	
			9.4		15 R	
			12.1		16 R	Gutter
10+50			3.2		15 R	

	+	137.63 H.I	-	Elev.		
10+50			7.1		22 R	Top of Bank
			9.2		23 R	cutback
0	12.81	149.83	0.61	137.02		
10+0			14.6		Φ	
10+0			9.7		15 L	
10+50			10.5		Φ	
			5.2		15 L	
11+0			7.7		Φ	
			11.4		15 R	
			13.0		20 R	
			1.2		15 L	
B.M. 11+50			8.16		Φ	B.C. on hub
			11.2		15 R	
			4.2		15 L	
12+0			6.0		Φ	
			8.0		15 R	
			4.3		15 L	
0	13.09	162.37	0.55	149.28		
12+50			8.9		Φ	
			4.8		15 R	
			13.0		15 L	
0	12.78	174.88	0.27	162.10		
13+0			4.1		Φ	
			10.0		15 L	
0	12.59	186.91	0.56	174.32		
13+0			8.7		15 R	

	+	186.91 +1	-	Elco	
13+50			4.5		⊘
			12.3		15 L
14+50			7.3		⊘
14+60			9.6		⊘
14+50			12.7		15 L
"			11.9		40 L
14+50			5.5		15 R
14+25			20.0		40 R
⊙	12.80	199.07	0.04	186.87	bottom of draw
13+50			8.8		15 R
13+60			16.4		⊘
13+85			5.9		⊘
14+0			3.4		⊘
"			10.4		15 L
"			13.0		20 L
14+10			3.2		⊘
⊙	10.91	209.99	0.59	199.08	
14+0			7.2		15 R
15+0			10.2		⊘
			9.1		5 R
			10.7		15 R
			11.4		15 L
			10.7		25 L
16+50			0.7		⊘
			10.1		15 L

	+	299.99 H1	-	Flou
17+0			2.1	
⊙	12.51	221.91	0.59	209.40
BM			3.86	218.05 207.98
15+35			5.8	
"			4.8	
"			8.8	
15+50			4.9	
			2.3	
			8.7	
15+95			6.5	
16+0			10.0	
			10.6	
			2.8	
16+50			3.6	
17+0			5.5	
			4.7	

15 L

on N.E. end culvert heading Sta 10+0 B Line.

E

15 R

15 L

E

15 R

15 L

E

E

15 L

15 R

15 R

E

15 R

	+	H	1/4 E "	Elavn Line
B.M	2.68	227.05		224.37
B.C. 0+50			5.1	
			5.3	
			4.3	
			4.6	
1+0			5.6	
			5.9	
			5.3	
			4.8	
1+05			8.0	
			10.4	
			6.1	
			4.8	
1+25	(Same as	1+05)		
1+35			13.8	
			15.8	
			12.4	
			9.3	
1+50			11.4	
			14.1	
2+0			14.8	
0	0.63	214.99	12.69	214.36
1+50			3.7	
"			6.2	
2+0			6.5	

at Sta 13 "A"

Transit Line = 10' N of ϕ = Base line

15 N

10 S ϕ

35 S

Trans Line

15 N

10 S ϕ

35 S

T.L.

15 N

10 S ϕ

35 S

T.L.

15 N

10 S ϕ

35 S

35 S

10 S ϕ

35 S

T.L.

15 N

10 S ϕ

	+	H I 24.99	-	Elev	
2+0			7.9		T.L
			11.5		15N
2+50			8.7		T.L
			11.7		15N
			6.7		10 S ϕ
			3.3		35 S
Ec 2+75			7.7		T.L
			10.5		15N
			6.2		10 S ϕ
			4.0		35 S
3+0			9.7		T.L
			13.6		15N
			7.7		10 S ϕ
			4.3		35 S
3+50			15.1		35 S
○	0.11	202.17	12.92	202.06	
3+50			8.7		10 S ϕ
			10.6		T.L
			14.4		15N
3+75			20.3		T.L
			17.2		10 S ϕ
			8.6		35 S
4+0			10.7		T.L
			6.3		35 S
4+20			4.4		35 S

	+	H I	Temp.	Elev.	
4+20		202.17		10.1	10 S ♀
"				13.9	TL
4+50				11.5	35 S
4+75				16.5	35 S
0	0.66	189.90		12.93	189.24
4+20				7.5	15 N
4+0				10.2	15 N
3+75				14.2	15 N
4+50				8.9	TL
"				6.4	10 S ♀
"				14.8	15 N
5+0				13.9	TL
"				11.0	10 S ♀
				4.0	35 S
5+50				13.0	10 S ♀
				6.4	35 S
6+0				7.3	35 S
6+50				12.0	35 S
7+0				14.0	35 S
7+50				14.0	35 S
0	0.08	196.93		13.05	196.85
4+75				6.9	15 N
5+0				6.1	15 N
5+50				4.5	TL
"				8.7	15 N

	+	H.I.	-	E/60	
6+0		176.95	4.0		10 S &
			7.2		T.L
			12.4		15N
6+50			7.1		10 S &
			11.0		T.L
			15.7		15N
7+0			13.4		T.L
			10.0		10 S &
			16.9		15N
7+50			8.7		10 S &
			12.4		T.L
0	R.R. - 0.11	164.51	12.30	164.60	
7+50			5.7		15N
8+0			8.0		T.L
			4.6		10 S &
			R.R. + 5.0		3.5 S
			12.3		15N
8+50			11.3		10 S &
			1.7		3.5 S
0	0.08	151.69	12.91	151.61	
8+50			2.6		T.L
			7.1		15N
9+0			H.4		T.L
			8.9		10 S &
			2.8		3.5 S

	+	1511.09 H1	-	15100
940			16.1	
BM 0	0.97	1391.63	13.03	1388.66
9750			7.9	
			7.5	
			4.0	
			8.7	
9770			10.3	
			10.4	
			17.6	
			13.5	
0	0.123	127.44	12.42	127.21
1010			7.5	
			7.2	
			6.7	
			8.9	
0	1.26	117.11	11.59	115.85
BM			8.37	108.74
10425			4.7	(108.73)
			3.7	
			1.9	
			5.4	
10750			4.1	
			3.9	
			3.2	
			4.6	

15 N
on hub at 9+10 T.L
T.L
10 S Φ
35 S
15 N
T.L
10 S Φ
35 S
15 N
T.L
10 S Φ
35 S
15 N
T.L
in gutter old road
10 S Φ
35 S
15 N
T.L
Φ old road
10 S Φ
35 S
15 N

S. curb line J. St

W-25 on emt. cl.	4.92	1.71
W-25 gutter	5.5	1.1
W. line emt. cl.	5.16	1.47
" " Pavmt	5.54	1.09
cl " "	5.66	0.92
" " "	5.07	1.56
± " "	4.98	1.65
" " "	5.11	1.52
cl " "	5.64	0.92
E. line " "	5.55	1.08
" " emt. cl.	5.19	1.44
E+9 " "	5.04	1.59
E+9 pavmt.	5.48	1.15
E. emt. walk	4.85	1.78
" cl.	5.33	1.30
gutter	5.85	0.78
" "	5.26	1.37
±	5.16	1.47
" "	5.26	1.37
gutter	5.73	0.90
emt. cl.	5.22	1.41
W. on emt. walk	4.86	1.77

0+00 = S. line J. St. = $\left\{ \begin{array}{l} \text{S. End Walk + curb} \\ \text{S. " Pavmt.} \end{array} \right.$

0+04.5

W.	4.7	1.9
cl	5.0	1.6
+1	5.6	1.0
"4	5.2	1.9
±	5.0	1.6
"4	5.0	1.6
+9	4.6	2.0
+11	5.6	1.0
cl	5.6	1.0
+2 = Fire Hydrant	5.06	1.57
+3.	4.9	1.7
E.	4.7	1.9
E	4.7	1.9
E	4.7	1.9
cl	5.2	1.4
+1	6.2	0.4
+3	4.8	1.8
"4	4.8	1.8
±	4.9	1.7
"4	5.1	1.5
+10	5.4	1.2
+12	5.9	0.7
cl.	5.2	1.4
+4	4.6	2.0
W.	4.8	1.8

0+50

Top of
Flange

6.63
1+00

W.	4.9	1.2
d	5.3	1.3
+1	6.9	-0.3
+4	5.5	1.1
14	5.1	1.5
Φ	5.1	1.5
14	5.1	1.5
+9	5.2	1.4
+12	7.0	-0.4
eb	5.3	1.3
E.	4.8	1.8
1+15		
E	5.5	1.1
d	5.6	1.0
+1	7.1	-0.5
+3	5.5	1.1
14	5.3	1.3
Φ	5.2	1.4
14	5.2	1.4
+11	5.4	1.2
+12	7.1	-0.5
eb	5.7	0.9
W.	5.8	0.8

3rd St.

40

6.63
1+16.94

E. Line = N. Rail	5.47	1.16
1+18 ⁰⁴		
E. eb. Line N. Rail	5.57	1.06
1+19 ⁰⁴		
E. 14 N. Rail	5.66	0.92
1+20 ³⁴		
Φ N. Rail	5.59	1.04
1+21 ⁵⁴		
W. 14 N. Rail	5.58	1.05
1+22 ⁴⁴		
W. eb. N. Rail	5.56	1.07
1+22 ⁶⁴		
W. Line N. Rail	5.67	0.96
1+21 ⁶⁶		
E. Line S. Rail	5.47	1.16
1+22 ²⁶		
E. eb. S. Rail	5.62	1.01
1+23 ²⁶		
E. 14 S. Rail	5.65	0.98
1+25 ⁰⁶		
Φ S. Rail	5.52	1.11
1+26 ²⁶		
W. 14 S. Rail	5.55	1.08
1+27 ¹⁶		
W. eb. S. Rail	5.57	1.06
1+27 ³⁶		
W. Line S. Rail	5.63	1.00

6.63

1+32

W.	5.5	1.1
cl.	5.9	0.7
+1	7.3	-0.7
+3	5.1	1.5
14	5.2	1.4
⊕	5.2	1.4
14	5.2	1.4
+9	5.4	1.2
+12	7.0	-0.4
cl.	5.3	1.3
E.	5.2	1.4

1+50

E	7.8	1.8
cl.	5.0	1.6
+1	6.9	-0.3
+3	5.3	1.3
14	5.3	1.3
⊕	5.3	1.3
14	5.3	1.3
+9	4.8	1.8
+11	7.0	-0.4
+12	4.9	1.7
cl.	4.9	1.7
+12.7 = N. End. Cor. Iron Fence.	5.1	1.5
W.	5.1	1.5

6.63

3rd st

41

1+78

W.	5.0	1.6
cl.	5.0	1.6
+3	7.2	-0.6
+4	5.7	0.9
14	5.6	1.0
⊕	5.4	1.2
14	5.3	1.3
+11	5.5	1.1
+12	7.3	-0.7
cl.	5.8	0.8
E.	5.39	1.24

cmt floor at ⊕
Doorway Warehouse2+07⁵⁰

E	5.0	1.6
cl.	5.5	1.1
+1	6.9	-0.3
+3	5.4	1.2
14	5.4	1.2
⊕	5.4	1.2
14	5.8	0.8
+8	6.3	0.3
+9	7.3	-0.7
cl.	5.3	1.3
+1.7 = N. E. Cor Cmt. Walk	5.13	1.50
+12.25 = S. W. Cor 7 th Cor. Iron Fence.	5.13	1.50

2+50

W + 1.8	W. edge cmt. walk Cor Fence	5.11	1.52
W + 12.6	E. Edge cmt. walk	5.20	1.43
ch		5.2	1.4
+2		7.3	-0.7
+5		5.8	+0.8
44		5.5	+1.1
♀		5.3	1.3
44		5.3	1.3
+6.5		5.5	+1.1
+6.5	FL. Inlet 18" Wood Stave Culvert.	6.9	-0.3
+10		5.5	+1.1
ch		5.2	1.4
E		5.0	1.6

2+52

E		5.0	1.6
ch		5.2	1.4
44		5.3	1.3
♀		5.3	1.3
44		5.5	1.1
+8		5.8	+0.8
+11		7.3	-0.7
ch		5.2	+1.4

+1.4 = E. Edge cmt. walls

+12.2 = W " " "

2+61

3.5 E. of W. ch.	{ FL. Outlet 18" Wood Stave Pipe Culvert.	7.8	-1.2
------------------	--	-----	------

2+75

18' E. of W. line = S. End. Cor. Iron. Fence.

2+79.5

18' E. of W. line = W. edge cmt. walk	5.04	1.55
{ E. Edge cmt. walk to South	5.26	1.37
{ E. Edge cmt. walk to North	5.33	1.30

2+86

W.	5.4	1.23
+1.8 = W. edge cmt. walls	5.10	1.53
+10.4 = E. " " "	5.22	1.41
ch	5.8	0.8
+2 FL. ♀ { N. End. Inlet 30" wide 12" High Wooden Box Culvert.	8.3	-1.7
+7	5.4	0.8
44	5.5	1.1
♀	5.3	1.3
44	5.5	1.1
ch	5.2	1.4
E.	5.2	1.4

2+87.5

12' E. of W. line Elve Pole 14" Diam

2+88.5

E.	5.2	1.4
ch	5.2	1.4
44	5.5	1.1
♀	5.3	1.3
44	5.5	1.1
ch	5.4	1.0

2+88^E (con)

el + 3.6 = S. End. E. Edge	5.24	1.39
" + 12.2 = S. End W. Edge	5.09	1.54
W.	5.1	1.5

2+92

13.2 W. of E. Line = ctr Fire Hydr.

5.81 0.82

3+00^E = N. Line K ST

W	5.3	1.3		
el	5.4	1.2		
+1	6.0	0.6		
+5	5.8	0.8		
1/4	5.4	0.8		
ϕ	5.3	1.3		
1/4	5.3	1.3		
el	5.5	1.1		
E.	5.4	1.2		
T.P.	2.66	6.16	3.13	3.50

Top of Flange

Top. Fire Hydr
N. E. 3rd StK. ST X Sec
3rd Ave to 4th Ave.

HI 6.16

W. Line 3rd St

N.	4.8	1.4
+ 5.3 = N. Rail N. siding	4.45	1.71
+ 10.2 = S. " N "	4.35	1.81
el.	4.7	1.5
+ 10.3 = N. Rail S. siding	4.20	1.96
1/4	4.7	1.5
+ 2.8 = S. Rail S. siding	4.20	1.96
+ 3.3 = N. E. Rail of N. E. siding	4.20	1.96
+ 9. = S W " " N. E. "	4.17	1.99
ϕ.	4.5	1.7
+ 5.9 = N. E. Rail Main line	4.17	1.99
+ 11.6 = S. W " " " "	4.17	1.99
1/4	4.6	1.6
el.	5.0	1.2
S.	5.2	1.0

W. el. Line 3rd Ave

S.	5.2	1.0
el.	4.6	1.6
+ 5.1 S.W. Rail Main line	4.17	1.99
+ 10.7 N.E. " " "	4.17	1.99
1/4	4.6	1.6
+ 7.4 = S. W Rail of siding	4.18	1.98
ϕ.	4.6	1.6
+ 0.2 = N. E Rail of siding	4.19	1.97

6.16

W. cl. Line 3rd Ave. con

± 4.1 = S. Rail S siding	4.27	1.89
+ 9.2 = N " S "	4.37	1.79
+ 1.4	4.6	1.6
cl	4.8	1.4
+ 0.54 = S. Rail N. siding	4.47	1.69
+ 5.37 N " N. "	4.58	1.58
N.	5.3	0.9

1/4 E. of M. cl.

4.3 S. of N. line = ctr	Catch Basin 36" dia. 30° N + S.	9.57	-3.41	Flow line
4.3 " " N " Top grating				

W. 1/4 3rd Ave

N.	5.1	1.1
+ 11.2 = N. Rail N. siding	4.66	1.50
cl	4.6	1.6
+ 2.05 = S. Rail N. siding	4.58	1.58
1/4.	4.7	1.5
+ 8.9 = N. Rail S. siding	4.52	1.64
cl	4.8	1.4
+ 1.1 = S. Rail S. siding	4.41	1.75
+ 8.3 = N.E. Rail siding	4.16	2.00
1/4	4.6	1.6
+ 0.8 = S.W. Rail siding	4.15	2.01
+ 10.7 = N.E. " Main line	4.19	1.95
cl	4.6	1.6
+ 3.4 = S.W. Rail Main line	4.52	1.54
S.	5.1	1.1

K. St.

44

6.16

± 3rd Ave

S.	4.6	1.6
+ 2.2 = S.W. Rail Main line	4.20	1.96
+ 7.8 = N.E. " " "	4.19	1.97
cl	4.5	1.7
+ 3.6 = S.W. Rail siding	4.17	1.99
+ 9.2 NW " "	4.20	1.96
1/4	4.6	1.6
+ 7.7 = S. Rail S. siding	4.54	1.58
+ 12.7 = N. " S. "	4.74	1.42
±	5.0	1.2
1/4	4.8	1.4
+ 8.78 = S. Rail N. siding	4.69	1.49
cl	4.8	1.4
+ 0.6 = N. Rail N. siding	4.78	1.38
N	4.8	1.4
	E. 1/4 3 rd Ave	
N	4.9	1.3
cl	4.8	1.4
+ 1.1 = N. Rail N. siding	4.87	1.35
+ 5.9 = S " N "	4.69	1.47
1/4	4.7	1.5
±	5.0	1.2
+ 4.0 = N. Rail S. siding	4.91	1.25
+ 9.0 = S. " S. "	4.74	1.42
1/4	5.0	1.2
+ 12.3 = N.E. Rail Main siding	4.22	1.94

6.14

0+00 = E. Line 3rd Ave

N	4.9	1.3
el	5.0	1.2
+ 3.5 = N. Rail N siding	4.87	1.29
+ 8.4 = S " " "	4.79	1.30
1/4	4.9	1.3
ϕ	4.8	1.4
+ 9.4 = N. Rail S. siding	5.17	0.99
1/4	5.01	1.15
+ 1.5 = S. Rail S. siding	5.01	1.15
el	4.8	1.4
S.	4.8	1.4
+ 3.17 = N. Rail Main siding	4.24	1.92
0+31.		
S	4.8	1.4
el	4.9	1.3
+ 8.7 = S. Rail S. siding	5.12	1.04
1/4	5.1	1.1
+ 0.4 = N Rail S. siding	5.15	1.01
ϕ	4.9	1.3
1/4	4.9	1.3
+ 3.9 = S. Rail N. siding	4.87	1.29
+ 8.7 = N " " "	4.91	1.25
el	4.8	1.4
+ 12.5 = cnt. foundation	4.8	1.4

6.16

H. St.

46

0+567

N+1.5 = cnt. foundation	4.8	1.4
el	4.9	1.3
+ 4.4 = N. Rail N. siding	4.86	1.36
+ 9.2 = S. " " "	4.84	1.32
1/4	4.9	1.3
ϕ	4.8	1.4
1/4 = N. Rail S. siding	5.14	1.02
+ 4.8 = S. " " "	5.10	1.06
el	5.0	1.2
S.	4.8	1.4

0+84.5

S.W. side W. End

1.3 N. of S. Line (Wooden Bldg.)

1+00

0.8 N. of S. = N. side Bldg	4.5	1.7
el	4.6	1.6
+ 8.1 = S. Rail S. siding	5.00	1.16
1/4 = N " " "	5.03	1.13
ϕ	4.7	1.5
1/4	4.8	1.4
+ 3.7 = S. Rail N. siding	4.88	1.28
+ 8.5 = N " " "	4.90	1.26
el	4.9	1.3
+ 12.5	4.6	1.6
N. = S. side Bldg	4.5	1.7

6.16

1+50

9.5 S. of N. = S. Side platform	4.5	1.7
el	4.7	1.5
+ 4.7 = N. Rail N siding	4.88	1.28
+ 9.4 = S " N "	4.89	1.27
1/4	4.8	1.4
¢	4.7	1.5
1/4	4.9	1.3
+ 0.3 = N. Rail S. siding	4.93	1.23
+ 5. S " S "	4.99	1.17
el	4.7	1.5
+ 13.6 = Bldg.	4.4	1.8

1+70.6

S. on S. side W end emt. walk	4.61	1.55
el 4 N " " " " "	4.86	1.30
+ 7.9 = S. Rail S. siding	5.06	1.10
+ 12.6 = N " " "	5.05	1.11
1/4	5.0	1.2
¢	4.8	1.4
1/4	4.9	1.3
+ 3.6 = S. Rail, N. siding	4.91	1.25
+ 8.2 = N " " "	4.92	1.24
+ 11. S. side emt. platform	4.95	1.21
el on " "	4.82	1.34
+ 4.5 { N. side emt. platform S " Wood " "	4.64	1.52

K. St

1+85.3

47

N+9.5 { S. side wood platform N " emt. "	4.58	1.58
el on emt. platform	4.74	1.42
+ 3 = S. side " " "	4.94	1.22
2100 ⁵ = N. line 4 th Ave		
N. on emt. walk	3.98	2.18
+ 9.5 " " "	4.40	1.76
el " " & paymt	4.70	1.46
+ 4.8 = N. Rail N. siding	5.01	1.15
+ 9.5 = S " N "	5.03	1.13
1/4 W. edge paymt	4.95	1.21
¢ " " "	5.15	1.01
1/4 " " "	5.15	1.01
+ 0.5 = N. Rail S. siding	5.16	1.00
+ 5.3 = S. " S. "	5.16	1.00
+ 12	5.00	1.16
el Top.	4.76	1.40
S. on emt. walk.	4.48	1.68

1+94.4

1.4 S. of S. el. Fire Hdt 4.58 1.58 Flange.

over.

6.14
14' E = W. of line 4th Ave

S. Top ch.	4.75	1.41
gutter	5.53	0.63
ch line	5.32	0.84
114	5.24	0.92
4	5.10	1.06
114	5.00	1.16
ch line	4.95	1.21
N. gutter	4.84	1.32
N. Top ch	4.11	2.05
T.P. B.M. B.R S.W. H th & K.	4.77	1.39 = 1.39

7+47⁵² B.C. on RT. $\Delta 98^{\circ} 20'$ RT.

7+00

45.21 Def Ls. Sls. chd Nk. chd

6+54⁷⁹ E.C. 4-06

55.09 54.27

6+00 3-19'

$\Delta = 8^{\circ} 12'$ RT

50.42 49.66

$\phi R = 2000.00$

5+50 2-36'

$\phi T = 143.34$

$\phi L = 286.23$

5+11⁶⁷ ctr Curve ²⁺⁰³

S.L. T = 144.44'

S. Line P. 1. \rightarrow 5.18 15' 15'

11.73 11.55

S.L. Ex. = 5.18'

5+00 1-53'

50.42 49.66

4+50 1-10'

50.42 49.66

4+00 0-27'

31.44 31.63 31.16

3+68.56 B.C. RT.

3+55

3+00

15'

15'

Municipal Golf Club House

cm. Porch

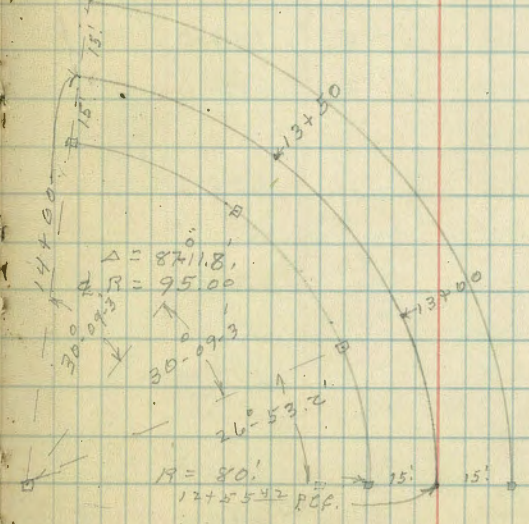
103.74'

24° 19'

26.63'

continued. Page 51.

14+00 E.C.



12+55.42 P.C.

X Sec. Road, from 28th + Dist.
To Golf Club House. 30' Wd.

Indexed
C.S.K.

226.37

53

B.M. B.P.	10.13	218.04	207.95
T.R. stub	10.25	226.37	1.96 216.72
For X. Sec 28 th St. at. Date Book 1332-68			
±	0+00	{ W. Line 28 th St E. " Balboa Park } on Diagonal	
-10		8.0	218.4
Lt.		9.0	218.4
±		8.1	218.3
Rt.		8.3	218.1
+10		8.5	217.9
	0+20	B.C.	Lt.
-10		8.3	218.1
Rt.		8.0	218.4
±		7.8	218.6
Lt.		7.4	219.0
+10		7.2	219.2
	0+50		
-10		6.1	220.3
Lt.		6.3	220.1
±		6.7	219.7
Rt.		7.2	219.2
+10		7.6	218.8
	1+00		
-10		6.5	219.9
Rt.		6.1	220.3
±		5.8	220.6
Lt.		5.3	221.1
+10		5.1	221.3

s.w. Date
& Granddy
± Date
± 28th St.
± Rd to Golf
Club House

-10		5.4	221.0
Lt.		5.7	220.7
±		6.0	220.4
Rt.		6.5	219.9
+10		6.8	219.6
	1+93	E.C.	
-10		7.5	218.9
Rt.		7.17	219.20
±		6.7	219.7
Lt.		6.33	220.04
+10		6.0	220.4
	2+25		
-7.0		7.4	219.0
Lt.		7.7	218.7
±		8.0	218.4
Rt.		8.3	218.1
+10		8.9	217.5
	2+50		
-10		10.4	216.0
Rt.		10.0	216.4
±		9.6	216.8
Lt.		9.3	217.1
+7.1		9.0	217.4

1+93

2+25

2+50

+10 Edge Lawn

-7.0 Edge Lawn

+7.1 Edge Lawn

226.37

2+75

-10		10.6	215.8	
Lt		11.0	215.4	
♀		11.5	214.9	
RT		12.2	214.2	
+10		12.7	213.7	
T.P.	7.27	220.69	12.95	213.42

3+00

-10		10.2	210.5
RT		9.9	210.8
♀		8.6	212.1
Lt		7.8	212.9
+13'	Edge Lawn	7.1	213.6

3+25

-10	edge	10.7	210.0
Lt		11.0	209.7
♀		12.3	208.4
RT		12.6	208.1
+12		13.5	207.2

3+51 = Drainage ditch Wooden Top

-15		18.1	202.6
RT		15.7	205.0
♀		14.5	206.2
Lt		12.8	207.9
+3	Edge Lawn	12.8	207.9
+10.	on "	10.2	210.5

220.67

3+68 56 BC-RT.

-10	on lawn	10.1	210.6
Lt	edge "	11.7	209.0
♀		13.3	207.4
RT		15.5	205.2
+15		16.6	204.1

4+00

-15		13.2	207.5
RT		10.9	209.8
♀		7.6	211.1
Lt	edge lawn	8.5	212.2
+10	on "	8.0	212.7

4+50

-10	on lawn	5.2	215.4
Lt	edge lawn	5.7	215.0
♀		5.6	215.1
RT		6.3	214.4
+10		6.8	213.9

5+00

-10		4.4	216.3
RT		4.2	216.5
♀	e.	4.1	216.6
Lt	edge lawn	3.7	217.0
+10	on "	3.7	217.0

54

220.69

5+50

-10	on lawn	3.0	217.7
L+	Edge "	3.1	217.6
☐		3.4	217.1
R+		4.0	216.7
+10		5.0	215.7

5+75

-10		5.0	215.7
R+		4.7	216.0
☐		4.2	216.5
L+	edge lawn	3.6	217.1
+10	on "	3.5	217.2

6+00

-10		4.3	216.4
-3	edge lawn	4.5	216.2
L+		4.8	215.9
☐		5.6	215.1
R+		6.1	214.6
+10		6.8	213.9
+45.5 ☐ on Diagonal	$\left. \begin{array}{l} 6+54 \text{ on Lt} \\ 6+37 \text{ on Rt} \end{array} \right\}$ Drainage Ditch Wooden Top.		
-10	in ditch	9.4	211.3
R+	" "	8.8	211.9
☐	" "	7.8	212.9
L+	E+W. Drainage Ditch	7.0	213.7

220.69

6+54 79 E.C.

55

-10	on lawn	5.5	215.2
-2	Edge "	5.9	214.8
L+		6.0	214.7
☐		7.2	213.5
R+		8.9	211.8
+10		9.9	210.8

7+00

-10		10.4	210.3
R+		8.9	211.8
☐		7.8	212.9
L+		6.0	214.7
+2	edge lawn	6.0	214.7
+10	on "	5.2	215.5
T.P.	8.57 223.59	5.67	215.02

7+47 ~~52~~ B.C. RT.

-10	on lawn	7.6	216.0
-2	edge "	8.5	215.1
L+		8.5	215.1
☐		10.6	213.0
R+		11.7	211.9
+10		12.4	211.0
chk. B.M. R.L. stub Rt. side line	4.83		214.76 = 218.76.

223.59

8+00

-15		11.9	211.7
RT.		11.0	212.6
♀		10.5	213.1
LT.		9.0	214.6
+18.5	edge Lawn	6.6	217.0

8+25

-30	Edge lawn	5.3	218.3
-15		6.4	217.2
LT.		8.3	215.3
♀		9.9	213.7
RT.		10.4	213.2
+15		10.4	213.2

8+37.5

-15		11.4	212.2
RT.		10.8	212.8
♀		8.9	214.7
LT.		7.7	215.9
+22	edge lawn	5.1	218.5

8+50

-46	edge lawn	5.1	218.5
LT.		6.1	217.5
♀		6.1	217.5
RT.		8.3	215.3
+15		12.7	210.9

223.59

8+67.50

-10		6.3	217.3
RT.		5.8	217.8
♀		5.7	217.9
LT.		5.6	218.0
+13	= edge lawn	5.2	218.4

9+00

-12	edge lawn	4.7	218.9
LT.		5.0	218.6
♀		5.9	217.7
RT.		6.4	217.2
+10	{ ♀ Rd. down Canyon Toward Pershing Dr	6.7	216.9

94-44.89 E.C.

-10		6.8	216.8
RT.		5.8	217.8
♀		4.6	219.0
LT.		4.03	219.56 on stub
+9	= Lt. side Road.	3.7	219.9

10+00

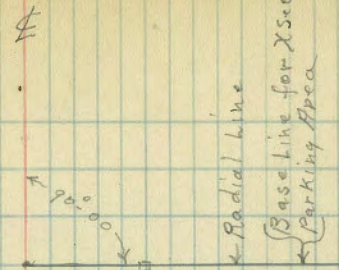
-10		1.6	222.0
LT.		2.1	221.5
+1	edge Road.	3.6	220.0
♀		2.7	220.9
RT	edge Road	3.4	220.2
+10		4.0	219.6

Continued Page 60.

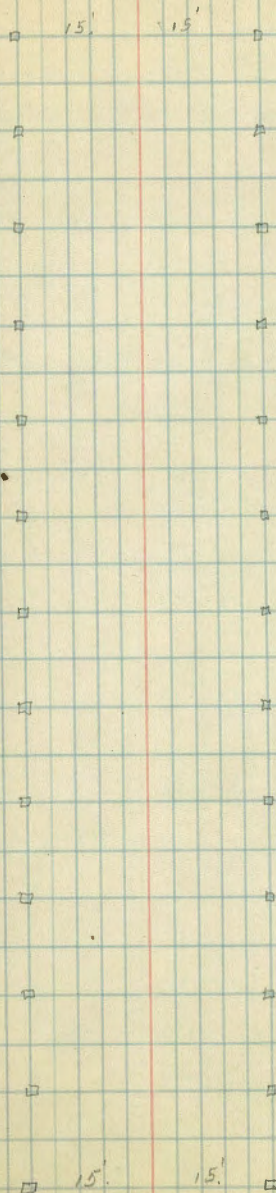
56

	15' Lt. chd.	Def L	15' Rt. chd.	
17+60 ⁵⁶ EC		14-58		
	28.62	3-38.4	32.44	
17+30		11-19.2		$\Delta = 29-56$
	28.11	3-34.9	31.86	$\phi R = 240.00$
17+00		7-44.3		$\phi L = 125.38$
	28.11	3-34.9	31.86	15' Lt. T. = 60.15
16+70		4-09.4		
	34.82	32.62	36.97	
16+35 ¹⁸ BC Lt.				
15+87. ⁰⁸ EC	15' Lt. chd.	Def L	15' Rt. chd.	
		17-20"		
	35.00'		39.12'	$\Delta = 34-40'$
15+50		13-23.9'		$\phi R = 270.00$
	47.16'		52.71'	$\phi L = 163.36$
15+00		8-05.6'		15' Lt. T. = 79.58'
	47.16'		52.71'	
14+50		2-47.3'		
	24.81'		27.73'	
14+23.72 B.C. Lt.				
14+00 EC				

Continued from Page 52.



22+00	23.52	26.46	$\Delta = 40.54$
			$\phi R = 255.00'$
21+75	23.52	26.46	$\phi L = 182.03'$
			$15' Lt. T = 89.49'$
21+50	23.52	26.46	
36.56	34.44	38.67	
21+13 ⁴⁴ B.C.L.			
20+50			
19+90 ²¹ E.C.	15' Lt. chd Def L 16.709	15' Rt. chd	
	43.06	38.28	
19+50			
	26.46	23.52	$\Delta = 32.18$
19+25			$\phi R = 255.00'$
	26.46	23.52	$\phi L = 143.75'$
19+00			$15' Lt. T = 78.19'$
	26.46	23.52	
18+75			
28.04	29.67	26.38	
18+46 ⁹⁶ B.C.R.			
18+00			
17+60 ⁵⁶ F.C.			



30' wide

X Sec. Road at Golf Club House
Balboa Park.

Continued from Page 56

B.M. P. 1, stub	9.48	228.24	218.76
	10+3128	BC. Lt.	
-10		8.0	220.2
Rt.		7.4	220.8
+3 edge Rd		6.7	221.5
⊥		7.0	221.2
+12 edge rd.		7.9	220.3
+13		6.4	221.8
Lt.		6.3	221.9
	11+00		
-10 on lawn		4.7	223.5
Lt edge "		5.1	223.1
+3		5.2	223.0
+4 edge rd.		6.8	221.4
⊥		6.1	222.1
+12 edge rd.		6.0	222.2
Rt.		6.4	221.8
+10		8.3	219.9
	11+50		
-10		8.1	220.1
Rt.		6.9	221.3
+8. edge Rd.		5.3	222.9
⊥		5.1	223.1
Lt. edge Rd		5.8	222.4
+2 " lawn		5.1	223.1
+10 on "		4.0	224.2

228.24

12+00

60

-10		4.3	223.9
-4 edge lawn		4.7	223.5
-3 " Rd.		5.1	223.1
Lt		4.6	223.6
⊥		4.4	223.8
+5		4.7	223.5
Rt.		7.0	221.2
+10		8.7	219.5
	12+55	42	R.C.C.
-10		7.5	220.7
-12		6.3	221.9
Rt edge Rd.		4.2	224.0
⊥		3.8	224.4
Lt edge Rd		4.9	223.3
+1 " lawn		4.5	223.7
+4 on "		4.5	223.7
+10 " "		3.0	225.2
	13+00		
-10		1.2	227.0
Lt. edge lawn		4.1	223.5
+1. edge Rd.		4.5	223.7
⊥		3.7	224.5
Rt.		3.8	224.4
+10		4.5	223.7
T.P.	4.68	229.33	3.59 224.65

229.33

13+50

-10		6.8	222.5
Rt		6.2	223.1
±		5.3	224.0
Lt		5.4	223.5
+5	Edge Rd " Lawn	6.3	223.0
+10	on	3.8	225.5

1400 E.C.

-10	on Lawn	5.2	224.1
-3	Edge Lawn Edge Rd.	7.3	222.0
Lt		4.4	222.5
±		6.3	223.0
Rt		7.0	222.3
+10		7.5	221.8

14+23⁷² B.C. Lt

-17		7.4	221.5
-10		7.6	221.7
Rt		7.2	222.1
±		6.6	222.7
+12		7.1	222.2
Lt	Edge Rd	7.7	221.6
+1	" Lawn	6.6	222.7
+10		5.7	223.6

14+50

-10	on Lawn	4.8	224.5
-7	" "	4.9	224.4
Lt.	edge " Rd.	7.8	221.5

229.33

61

+3		7.1	222.2
±		6.6	222.7
Rt		6.6	222.7
+12		7.0	222.3
+19	on N. End New. fill	11.0	218.3

14+80

-40'	N. End New. fill	11.6	217.7
-9.		11.0	218.3
Rt.		6.9	222.4
±		6.8	222.5
Lt		6.9	222.4
+2	edge Rd.	7.4	221.9
+7	edge Lawn	4.4	224.9

15+00

-7	edge Lawn	3.8	225.5
-3	" Rd	7.0	222.3
Lt.		6.6	222.7
+9		6.3	223.0
±		6.9	222.4
Rt		9.0	220.3
+10'		10.7	218.6
+58'	W. edge New. fill	11.8	217.5

229.33

15+20

-58' = W. edge New fill	11.7	217.6
-10	10.5	218.8
RT.	8.1	221.2
+3	7.1	222.2
⊥	6.6	222.7
+5	6.0	223.3
Lt	6.3	223.0
+2 edge Rd	6.7	222.6
+6 " Lawn	3.6	225.7

15+50

-6. edge Lawn	3.4	225.9
Lt " Rd	6.2	223.1
+7	5.7	223.6
⊥	6.2	223.1
RT.	7.7	221.6
+20	10.8	218.5
+60	16.0	213.3
+95' edge New Fill	18.0	211.3

15+87 or E.C.

-89'	16.0	213.3
-45	14.7	214.6
RT	7.4	221.9
⊥	6.1	223.2
+6	5.6	223.7
Lt edge Rd	6.3	223.0
+6 " Lawn	3.8	225.5

229.33

16+35 18 B.C. Lt.

62

-4 edge Lawn	3.8	223.5
Lt edge Rd	6.7	222.6
+10	6.0	223.3
⊥	6.2	223.1
RT.	7.2	222.1
+40 = { 500' E+W } X sec Parking { 147' N. } Area Page 64	13.4	215.9
T.P. 7.30 225.58	11.05	218.28
+92' = { 46' W. } X sec Parking { 174' N. } Area Page 64	11.3	214.3

16+70

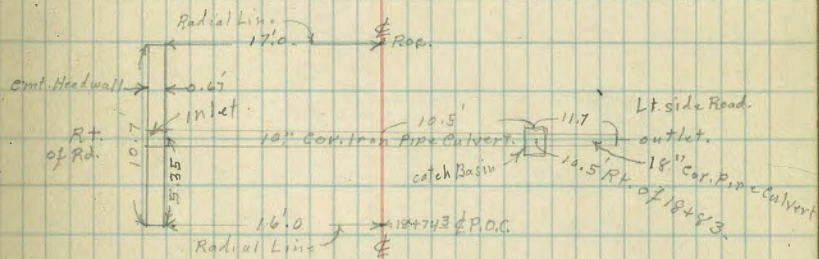
-19.3 = { 500' E+W } X sec Parking { 100.7' N. } Area Page 64.	4.7	220.9
RT.	3.6	222.0
⊥	2.5	223.1
+10	2.7	222.9
+14 = edge Rd	3.2	222.4
Lt.	2.5	223.1
+3 = edge Lawn	0.3	225.3

17+00

-1. edge Lawn	1.2	224.4
Lt	2.4	223.2
+7	3.4	222.2
⊥	3.0	222.6
RT.	4.2	221.4
+8.2 = { 500' E+W } X sec Parking { 65' N. } Area Page 64	4.7	220.9

- 2	{ 00 E+W } { 32.7' N. }	2.5 sec Parking Ared. Page 44	4.6	221.0	
Rt			4.3	221.3	
φ			3.6	222.0	
+ 8			3.7	221.9	
Lt.			2.0	223.6	
+ 3	edge lawn		1.6	224.0	
	17+60 ⁵⁶	E.C.			
- 3	edge lawn		2.6	223.0	
- 2			3.6	222.0	
Lt			3.8	221.8	
+ 8			4.3	221.3	
φ			4.2	221.4	
Rt.	{ 00 N+S } { 00 E+W }	2.5 sec. Parking Ared. Page 44	4.88	220.70	on stub
T.P.	3.41	224.11	4.88	220.70	
		18+00			
- 10			5.3	218.8	
Rt			4.7	219.4	
φ			4.3	219.8	
+ 12			4.6	219.5	
Lt. edge lawn			2.8	221.3	
+ 10	on "		2.8	221.4	
	18+46 ²⁶	P.C. Rt.			
- 10	on Lawn		6.7	217.4	
Lt.			7.2	216.9	
+ 1	edge lawn		6.2	217.9	
φ			6.2	217.9	

Rt		6.2	217.9
+ 5		6.2	217.9
+ 15		10.9	213.2
+ 25		12.0	212.1
	18+75		
- 15		13.8	210.3
- 3		7.1	217.0
Rt		6.5	217.6
+ 2		7.1	217.0
φ		6.7	217.4
Lt edge lawn		6.9	217.2
+ 3	on "	8.1	216.8
+ 10	" "	7.3	216.8



Levels on above Culvert.

Top. cmt. Headwall on Lt.	6.04	218.07
F.L. Inlet	8.31	215.80
Top. Catch Basin 10.5 Rt. of φ	7.15	216.96
F.L. " " 10.5 " " "	9.90	214.21
F.L. Outlet. 22.2 Rt. of φ	11.83	212.28

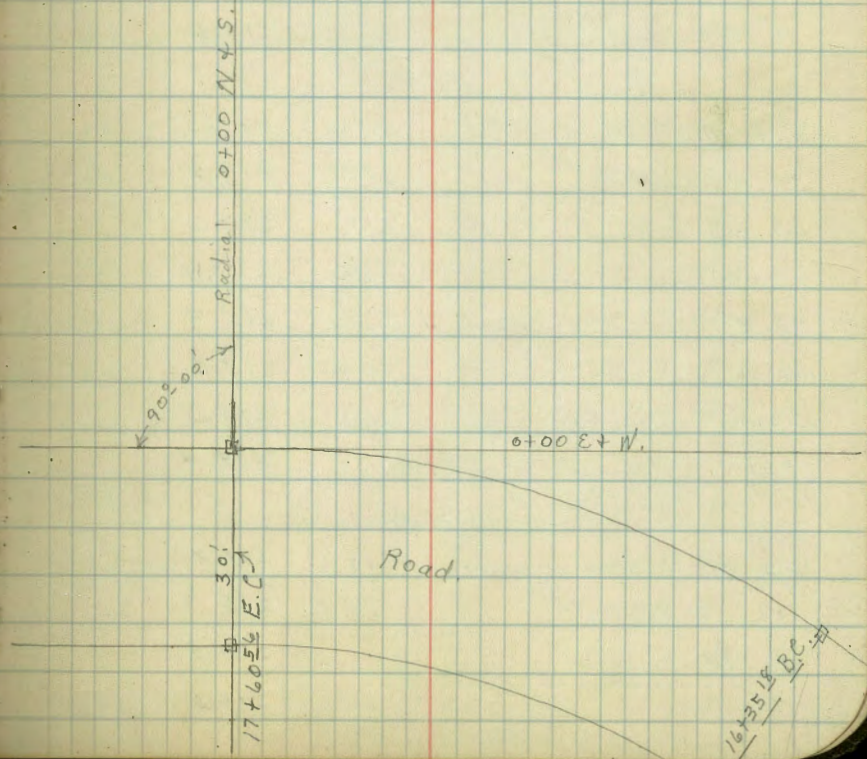
Continued Page 67.

X Sec. Parking Area.

H.V. 225.58 Page 63.

0+00 E+W.

46.5 = S. End	6.1	219.5
0+00 N+S = P.C.	4.9	220.7
25' N	4.5	221.1
50' N	4.6	221.0
75' N	4.7	220.9
100' N	4.7	220.9
112' N	5.4	220.2
147' N	7.7	215.9
25' W.		
162' N	10.9	214.7
120' N	9.8	215.8
100' N	7.7	217.9
75' N	5.4	220.2
50' N	5.0	220.6
25' N	5.0	220.6
00 N+S.	5.6	220.0
38' S = S. End.	7.6	218.0
50' W		
25' S = S. End	7.1	218.5
00 N+S	6.3	219.3
25' N	5.6	220.0
50' N	5.8	219.8
75' N	5.8	219.8
100' N	9.3	216.3
125' N	10.8	214.8
150' N	11.0	214.6
169' N = N. End. F111	11.2	214.4



225.58

50' W (con)

169' N	N. End. Fill.	11.2	214.4
182' N	Natural ground.	18.0	207.6
	75' N.		
153' N	Natural ground.	17.0	208.6
141' N	Top. Fill.	10.9	214.7
125' N		10.9	214.7
100' N		9.7	215.9
75' N		7.6	218.0
50' N		6.7	218.9
25' N		6.4	219.2
00 N+S		6.8	218.8
15' S =	s. side Natural ground.	7.0	218.6
	100' W.		
7' S	Natural ground	7.1	218.5
00 N+S.		6.9	218.7
25' N		6.7	218.9
50' N		7.2	218.4
75' N		9.7	215.9
100' N		11.0	214.6
123' N	Top. Fill	11.3	214.3
133' N	= Natural ground	16.7	208.9
	125' W.		
123' N	= Natural ground.	17.8	207.8
112' N	Top. Fill	10.1	215.5
100' N		10.7	214.9
75' N		10.7	214.9

225.58

65

50' N		8.3	217.3
25' N		7.2	218.4
00 N+S.		7.3	218.3
5' S =	Natural ground.	7.6	218.0
	150' W.		
12' S =	Natural	8.0	217.6
00' N+S		7.3	218.3
25' N		7.2	218.4
50' N		9.5	216.1
75' N		10.8	214.8
100' N	Top. Fill	10.1	215.5
112' N	Natural ground.	18.8	206.8
	175' W.		
100' N	= Natural ground.	18.8	206.8
91' N	Top. Fill	10.3	215.3
75' N		11.3	214.3
50' N		9.8	215.8
25' N		7.4	218.2
00' N+S.		7.9	217.7
21' S =	Natural ground	8.4	217.2
	200' W		
27' S =	Natural ground.	8.8	216.8
0+00' N+S.		7.7	217.9
25' N		9.1	216.5
50' N		10.8	214.8
75' N		10.8	214.8

		225.58		
		200' W. (con)		
85' N	Top Fill	10.3	215.3	
T.P.	3.18	218.18	10.58	215.00
96' N.	= Natural ground	11.0	207.2	

		225' W.		
93' N	= Natural ground.	11.7	206.5	
80' N.	Top Fill	3.4	214.8	
75' N.		3.4	214.8	
50' N		4.2	214.0	
25' N		2.1	216.1	
00' N+S		1.9	216.3	

		250' W.		
32' S	Natural ground	1.7	216.5	
41' S	Natural ground	3.9	214.3	
25' S		2.5	215.7	
00' N+S		2.0	216.2	
20' N		2.2	216.8	
25' N		3.6	214.6	
50' N.		4.1	214.1	
75' N	Top Fill	3.8	214.4	
87' N	Natural ground.	11.9	206.3	

		275' W.		
82' N	= Natural ground.	12.6	205.6	
68' N	Top Fill	4.2	214.0	
50' N		4.7	213.5	
25' N		4.9	213.3	
00' N+S.		5.2	213.0	

		218.18		
25' S.		4.8	213.4	
44' S =	Natural ground.	4.9	213.3	

		300' W.		
38' S.	Natural ground	4.8	213.4	
25' S.		5.3	212.9	
00' N+S		5.2	213.0	
25' N		4.6	213.6	
50' N.	Top Fill	4.6	213.6	
70' N.	Natural ground.	14.0	204.2	

		309' W		
56' N	Natural ground.	14.0	204.2	
50' N	on slope of Fill	11.3	206.9	
25' N	Top Fill	4.2	214.0	
00' N+S		5.0	213.2	
25' S =	Top Fill	4.9	213.3	
30' S.	Natural ground.	5.1	213.1	

		314' N		
00' N+S.	Natural ground.	5.3	212.9	
25' N.	on slope of Fill	8.4	209.8	
50' N	Natural ground.	14.0	204.2	

		318' N		
50' N.	Natural ground	14.3	203.9	
25' N	" "	11.6	206.6	Toe slope.
00' N+S	" "	7.6	210.6	

Road Levels 26th St Extension
To Golf Club House.

continued from Page 63.

HI 224.11

19+00.

-10 on Lawn	7.3	216.8
-3 edge "	7.3	216.8
L+	6.9	217.2
±	6.6	217.5
+10	7.0	217.1
+11	6.2	217.9
R+	6.6	217.5
+15	16.8	207.3
+30	23.1	201.0

19+25

-30	26.5	197.6
-15	17.0	207.1
R+	6.6	217.5
+4	5.8	218.3
+7	6.5	217.6
±	6.3	217.8
L+	6.2	217.9
+6 = edge Lawn	6.2	217.9
+10 on "	6.2	217.9

19+50

-10 on Lawn	4.2	219.9
-3 edge "	4.9	219.2
-2	5.5	218.6

224.11

67

L+	5.0	219.1
±	5.5	218.6
+7	5.7	218.4
+8	5.2	218.9
R+	5.8	218.3
+30	25.0	199.1

19+90²¹ E.C.

-10	4.5	219.6	
R+	4.2	219.9	
±	2.9	221.2	
L+	2.6	221.5	
+1	3.4	220.7	
+2 edge Lawn	2.4	221.7	
+10 on "	0.6	223.5	
T.P. 9.41	230.39	3.13	220.98
	20+10		
-18 on Lawn	5.9	224.5	
-2 edge "	7.2	223.2	
-1 1/2	8.4	222.0	
L+	7.8	222.6	
±	7.9	222.5	
+7	8.4	222.0	
+9	9.4	221.0	
R+	9.8	220.6	
+10	10.5	219.9	

230.39

20+50

-10	6.4	224.0
RT	5.8	224.6
☐	5.6	224.8
+11	5.7	224.7
LT	6.1	224.3
+1 edge Lawn	5.0	225.4
+10 on "	4.5	225.9

20+80

-10 on Lawn	3.7	226.7
LT = edge "	4.5	225.9
+1	5.6	224.8
+3	5.0	225.4
☐	4.7	225.7
RT	4.6	225.8
+10	5.0	225.4

21+13⁴⁴ B.C. Lt.

-4	4.8	225.6
RT	4.3	226.1
☐	4.5	225.9
+11	4.8	225.6
lt, edge lawn	3.9	226.5
+10 on "	3.4	227.0

21+50

-10 on lawn	2.8	227.6
lt, edge "	3.8	226.6
☐	5.0	225.4

230.39

68

RT	4.6	225.8
+10	5.0	225.4

21+75

-10	5.1	225.3
RT	4.4	225.6
☐	5.1	225.3
lt. edge Lawn	3.8	226.6
+10 on "	2.2	229.2

22+00

-10 on Lawn	4.2	226.2
lt. edge "	4.4	226.0
☐	5.4	225.0
RT	5.0	225.4
+10	5.0	225.4

22+25

-10	5.4	225.0
RT	5.2	225.2
☐	5.6	224.8
lt. edge Lawn	5.0	225.4
+10 on "	4.9	225.5

22+50

-10 on lawn	5.1	225.3
lt edge "	5.5	224.9
+3	6.1	224.3
☐	5.6	224.8
RT	5.9	224.5
+10	6.7	223.7

230.39
22+95.47 E.C

-15	12.8	217.6
RT.	8.0	222.4
+11	6.3	224.1
☐	6.0	224.4
LT	6.0	224.4
+5	6.6	223.5
+6 edge lawn	5.5	224.7
+10 on "	5.3	225.1

22+15

-10 on lawn	5.5	224.9
-5 edge "	6.0	224.4
-4	6.7	223.7
-3	6.1	224.3
LT.	6.0	224.4
☐	6.3	224.1
RT.	9.3	221.1
+15	16.3	214.1

22+37

-21	20.7	209.5
RT.	15.3	215.1
+9	11.3	219.1
☐	6.9	223.5
LT.	6.3	224.1
+3	6.4	224.0
+5	7.1	223.3
+6 edge lawn	6.4	224.0
+10 on "	6.0	224.4

230.39

23+49.38 B.C. RT

69

-10	6.3	224.1
-6	6.7	223.7
-5	7.4	223.0
-2	6.6	223.8
LT	6.4	224.0
☐	6.8	223.6
RT	10.9	219.5
+20	20.0	210.4

24+00

-10	9.0	221.4	
RT.	8.0	222.4	
+11	7.1	223.3	
☐	7.2	223.2	
+14	7.3	223.1	
LT	7.9	222.5	
+1	7.9	222.5	
+2 edge lawn	7.2	223.2	
+10 on "	6.5	223.9	
T.P. 1.54	225.27	6.66	223.73

24+50

-10 on lawn	1.7	223.6
-1 edge "	2.6	222.7
LT.	3.5	221.8
+4	2.7	222.6
☐	2.7	222.6
RT	4.0	221.3
+13	5.2	220.1

225.27

culvert Levels.

67.87
64.84
3.03

227.24

25+70

70

From 25+70 Lt. + Rt. distances are from ϕ

← 15' →

catch Basin + grate

15' Lt. of 24+79

15' Lt. of sta 24+70

outlet

8" cmt. Culvert

26' Rt. of ϕ = F.L. Outlet	7.40	217.87
14' Lt. of ϕ = F.L. catch Basin	4.65	220.62
14' " " = Top grating	3.3	222.0

25+00

-15	6.8	218.5
Rt.	4.8	220.5
ϕ	3.4	221.9
+13	3.3	222.0
+14	3.7	221.6
Lt. = edge of Lawn	3.0	222.3
+10 on " "	2.1	223.2
25+39.97 E.C.		
-10 on Lawn	2.6	222.7
Lt. Edge "	2.3	222.0
ϕ	3.6	221.7
Rt.	5.1	220.2
+25	8.3	217.0
T.P. End cmt. ch	5.49	227.24
	3.52	221.75

15' Lt of
sta 26+13.40

35' Rt. of ϕ	8.8	218.4
15' " " "	6.8	220.4
ϕ	5.7	221.5
15' Lt = edge Lawn	5.6	221.6
20' Lt.	5.2	222.0

26+13.40

15' Lt. Top. N. End cmt. ch.	5.48	221.76
cmt. gutter	6.20	221.04
12' Lt. = edge cmt. gutter	6.01	221.23
ϕ	5.9	221.3
15' Rt.	6.5	220.7
30' Rt.	7.1	220.1
46.8 Rt.	8.0	219.2

26+50

46.8 Rt.	7.0	220.2
30' "	6.9	220.3
15' "	6.7	220.5
ϕ	6.4	220.8
12' Lt. = cmt. gutter	6.66	220.58
15' " " "	6.83	220.41
15' " " ch.	6.00	221.24

continued Page 73.

32+74.28 Δ 80'-18" Rt. Intersection cmt. el.

32+79.14

32+63.24

32+43.2 P.I. c + cmt. el.

32+18.

31+92.8 End. cmt. el.

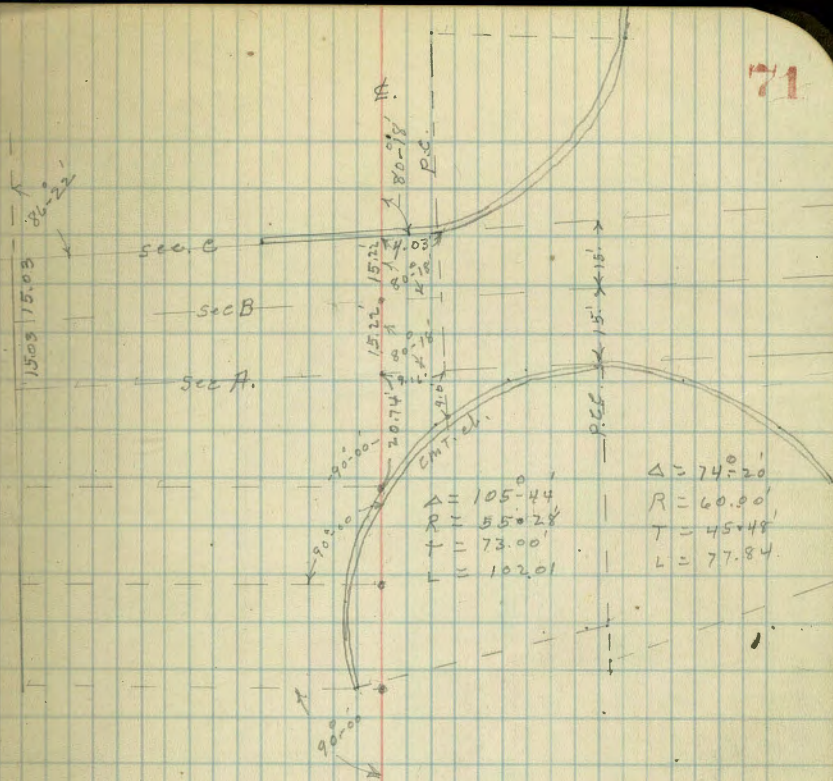
30+00

29+00

28+00

27+45

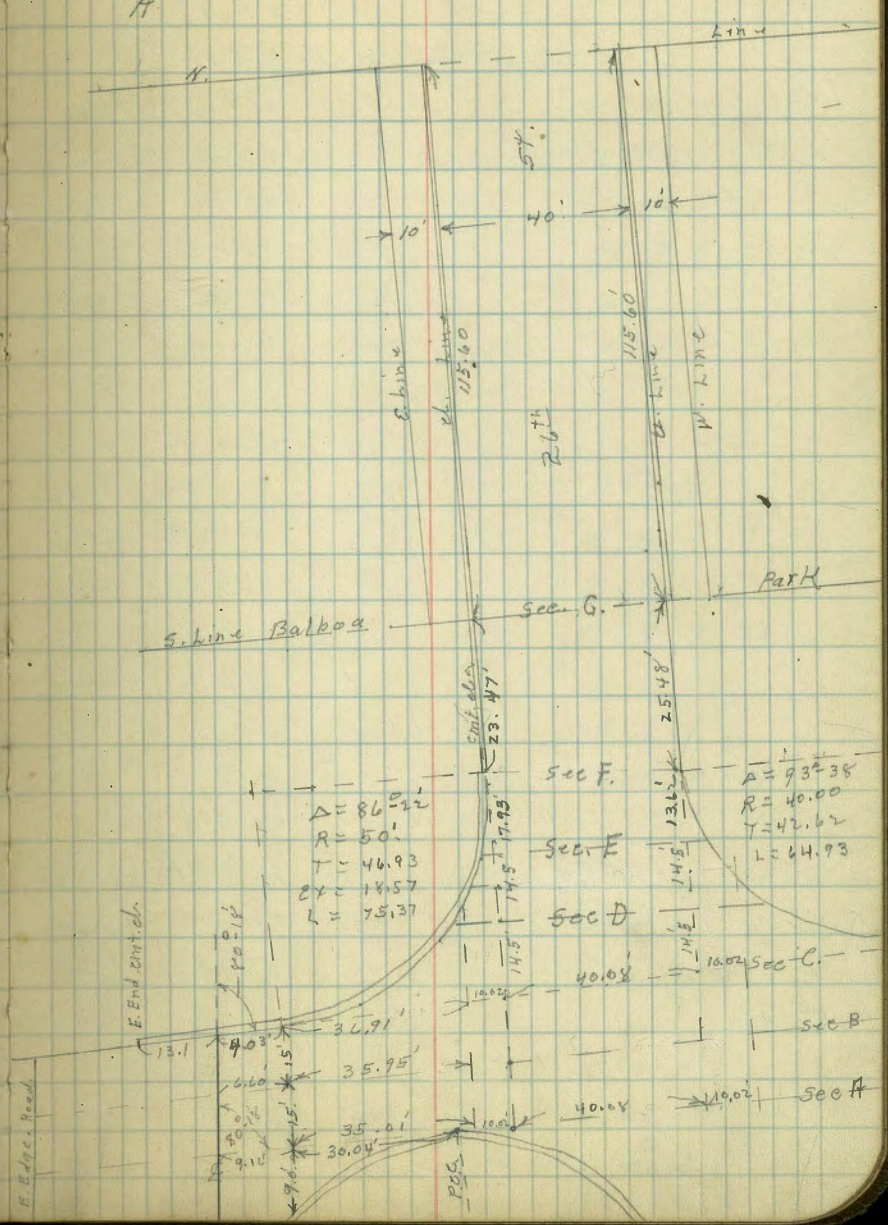
(Cont'd. from page 59)



4

H

ST



32+94.38 $\phi = 5$ ch. $\Delta 80-18$ RT.

32+79.16

32+63.94

Continued from Page 70

		227.24			
		27+04.10			
15' Lt =	{ ground to S. End. cmt. el. + Top. Headwall	6.65	220.59	E. End	
15' Lt =	cmt. gutter	6.70	220.54		
13' Lt =	" " { N. End. FL 12" corr. pipe Culvert	8.09	219.15		
12' Lt.	" "	7.57	219.67		
12' Lt.	W. End. Head wall Top.	6.83	220.41	{ ground to S.	
φ	= Base line	7.4	219.8		
15' Rt		7.8	219.4		
30' "		7.7	219.5		
47' "		7.7	219.5		

27+42

47' Rt.		8.4	218.8		
30' "		8.4	218.8		
15' "		8.3	218.9		
φ	= Base line	8.1	219.1		
15' Lt		7.4	219.8		
20' "		7.0	220.2		

27+366

20' Lt.		7.8	219.4		
15' "		8.2	219.0		
13' Lt =	ctr catch Basin + Grating	8.34	218.90	Top	
6' "	" " " " " "	9.51	217.73	F.L.	
φ	Base line	8.2	219.0		
15' Rt.		8.5	218.7		
30' "		8.4	218.8		
47' "		8.5	218.7		

227.24

Sta 27+35.

73

49.5 Rt. of φ = Outlet Culvert: 12.2

F.L.

		28+00			
55' Rt		9.9	217.3		
45' "		9.8	217.4		
30' "		9.5	217.7		
15' "		9.3	217.9		
φ	Base line	9.3	217.9		
15' Lt		9.3	217.9		
28' "	= Fence	9.1	218.1		

28+50

33' Lt =	Fence	9.3	217.9		
15' "		10.3	216.9		
φ	= Base line	10.2	217.0		
15' Rt		10.3	216.9		
30' "		10.4	216.8		
45' "		10.7	216.5		
60' "		10.5	216.7		

29+00

54' Rt.		11.3	215.9		
45' "		11.0	216.2		
30' "		11.0	216.2		
15' "		11.0	216.2		
φ	= Base line	10.8	216.4		
15' Lt		10.8	216.4		
20' "		11.3	215.9		
38' "	= Fence	10.0	217.2		

227.24

29+50

44' Lt Fence	10.4	216.8
37' "	10.4	216.8
27' " edge Ex Rd.	12.3	214.9
15' "	11.9	215.3
⊕ = Baseline	11.8	215.4
15' RT	11.9	215.3
30' "	12.1	215.1
40' "	12.6	214.6
T.P. 1.80	216.61	12.43

30+00

33' RT	2.9	213.7
15' "	2.6	214.0
⊕ = Baseline	2.4	214.2
15' Lt.	2.4	214.2
33' " e. edge Rd.	2.7	213.9

30+50

38' Lt	4.1	212.5
15' "	3.8	212.8
⊕ = Baseline	3.9	212.7
15' RT	4.0	212.6
28' "	4.3	212.3

31+00

30' RT	5.4	211.2
15' "	5.1	211.5
⊕ = Baseline	5.3	211.3
15' Lt	5.3	211.3

216.61

74

30' Lt	5.3	211.3
45' " edge Rd	5.5	211.1

31+50

49' Lt. edge	7.3	209.3
30' "	6.9	209.7
15' "	7.0	209.6
⊕ = Baseline	7.0	209.6
17' RT	7.2	209.4

31+92.8

⊕ = Baseline	8.6	208.0
2.1 Lt. = N. End. Top emt. cb.	8.14	208.47
2.1 Lt gutter	8.70	207.9
15' "	8.7	207.9
30' "	8.6	208.0
45' "	8.3	208.3
55' Lt = edge Rd.	8.3	208.3

32+18

56' Lt	9.3	207.3
52' "	8.7	207.9
75' "	8.8	207.8
30' "	9.5	207.1
15' "	10.2	206.4
7' " gutter	10.5	206.1
7' " Top emt. cb	9.80	206.81
⊕ = Baseline	10.3	206.3

216.61

32+43Z

☐ = Baseline = Top ent. ch	11.70	204.91
gutter	12.24	204.37
15' Lt	11.2	205.4
30' "	10.1	206.5
45' "	9.5	207.1
50' " E. edge Rd.	9.4	207.2
32+43.94 ☐ = Sec. A Δ 80°18' from Baseline		
60' Lt = E. edge Rd.	9.0	207.6
45' Lt	9.9	206.7
30' "	10.5	206.1
15' "	11.3	205.3
☐ = Baseline	12.7	203.9
T.P. 1.61	11.87	204.74
CHK B.M. N.W. 7' c.T. 26 th + A.	1.22	205.13
Set. B.M. B.P. N.W. 26 th + A.	1.81	205.03 ✓
H.I. 206.34		
9.16 Rt. = Radial P.C. Curb. curb. ens.	3.0	203.3
9.0 N. of 9.16 Rt. = gutter	3.3	203.0
9.0' N " 9.16 Rt = Top ent. ch.	2.57	203.77
39.2 Rt. = P.C.C. N. ch. gutter	5.4	200.9
39.2 " = P.C.C. N. ch. Top. ch.	4.75	201.59
44.17 " = E. Line 26 th St. Produced	5.8	200.5
E. ch. produced.	6.6	199.7
E. 1/4 "	7.0	199.3
☐ "	7.2	199.1
W. 1/4 "	7.2	199.1

206.34

75

W. ch. line produced.	7.4	198.9
W. Line 26 th St. "	7.5	198.8
+ 20	7.8	198.5
32+29 ^{1/2} = Sec. B. Δ 80°18' from Baseline		
W. Line - 20	6.2	200.1
W " 26 th St. Produced	6.2	200.1
W ch.	6.2	200.1
W. 1/4 "	5.9	200.4
☐ "	5.6	200.7
E. 1/4 "	5.3	201.0
E. ch. Line "	5.0	201.3
42.55 Rt. of Baseline E. Line 26 th St. Produced	4.5	201.8
6.60 Rt. " " = Radial at P.C. Curb. Curb. ens. S.	2.5	203.8
☐ = Baseline	2.1	204.2
15' Lt.	1.3	205.0
30' "	0.8	205.5
45' "	0.1	206.2
62' Lt. = E. edge Rd.	+0.7	207.0
32+94 ³⁸ = Sec. C. = S. ch. Line		
45' Lt. = E. Edge Rd.	0.0	206.3
45' Lt.	0.9	205.4
30' "	1.5	204.8
13.1' Lt. = E. End. ent. ch Top	1.61	204.73
13.1' Lt. gutter	2.5	203.8
☐ = Baseline gutter	3.0	203.3
☐ = " " Top ent. ch.	2.33	204.01

206.34
Sec C. Con.

4.04' Rt. = P.C. Cmt. cl. Top.	2.55	203.79	
4.04' " = gutter	3.3	203.0	
4.04' Rt. = E. line 26 th St. Produced	4.3	202.0	
E. cl.	"	4.4	201.9
S. 1/4	"	4.4	201.7
☐	"	4.9	201.4
W. 1/4	"	5.1	201.2
W. cl.	"	5.4	200.9
W. line 26 th	"	5.6	200.7
+ 20'	6.9	199.4	

14.5' S. of Sec C. = Sec D.

W. line 26 th St Produced	6.5	199.8	W. edge Rd.
W. cl	"	5.1	201.2
W. 1/4	"	4.6	201.7
☐	"	4.4	201.9
E. 1/4	"	4.2	202.1
E. cl.	"	4.5	201.8
E. line 26 th St	"	4.0	202.3
+ 2.7' gutter on catch Basin grating	4.89	201.45	
+ 2.7' Top. cmt. cl.	3.90	202.44	

14.5' S. of Sec D. = Sec E.

3.4' E. of E. cl. line Produced	3.86	202.48	Top. cmt. cl.
3.4' " " " "	"	4.4	gutter
E. cl. Line	"	4.4	201.9
E. 1/4	"	4.2	202.1
☐	"	4.0	202.3

206.34

76

W. 1/4 Produced	4.4	201.9	
W. cl.	"	5.5	200.8 W. edge Rd.
$\left. \begin{array}{l} 17.93' \text{ S. of Sec. F. on E. cl. Line} = \text{E.C. Curb} \\ 13.62' \text{ " " " E. " W. " " } = \text{E.C. " } \end{array} \right\} = \text{Sec F.}$			
	4.4	201.9	
+ 2	5.0	201.3	
1/4	4.1	202.2	
☐	3.7	202.6	
1/4	3.8	202.5	
gutter	4.0	202.3	
E. cmt. cl. at E.C.	3.51	202.8	

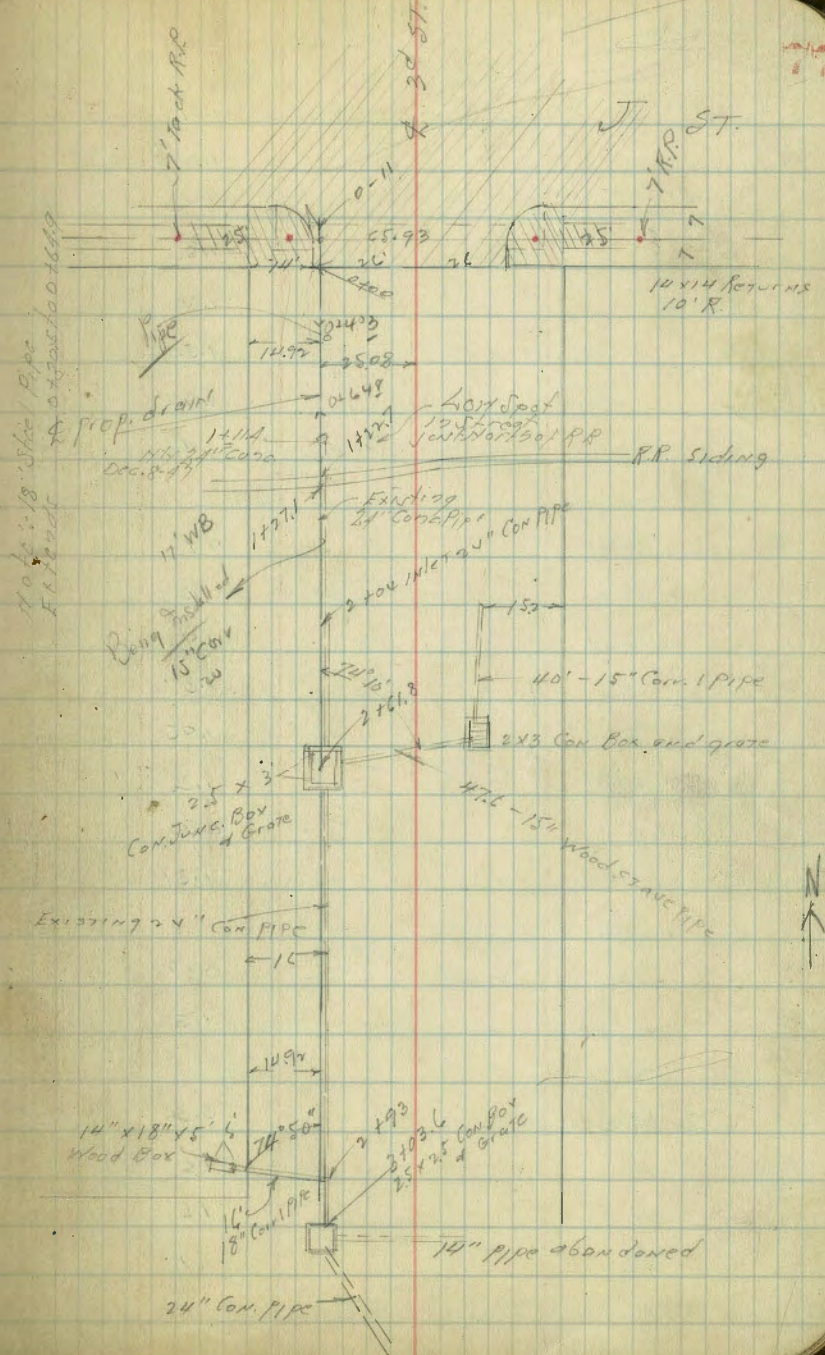
$\left. \begin{array}{l} 23.47' \text{ S. of curb E.C. on E.} \\ 25.49' \text{ " " " E.C. " W.} \end{array} \right\} = \text{Sec G} = \text{N. End.}$

E. cmt. cl.	3.24	203.10	cmt. Walk
gutter Pavmt.	3.94	202.36	cmt. curb
1/4	3.46	202.88	cmt. Pavmt.
☐	3.14	203.20	
1/4	3.38	202.96	
gutter	3.88	202.46	
W. cmt. cl.	3.22	203.12	
B.M. B.P.	1.31	205.03	N.W. 26 th + R. Sts

Indexed
C.S.K. Proposed Drain
on 3d St. J to K St.

Sanitary Engineer
H. Moore
11-9-43.

BM/B.P.	4.91	6.39	1.48	3d & J St. SW Cor.
W				
cb gut				
1/2				
c				
1/2				
cb gut				
E				
0-27 = 5 1/4 J				
E				
cb				
1/2				
c				
1/2				
cb				
W				
0-1X				
w/2 cb				
w/2 gut				
cb par gut				
1/2				
c				
1/2				
cb par gut				
E gut				
E cb				



0-11 = ♀ cb. inlet to cb. inlet

♀ Prop drain on pav	5.38	1.01
3.8 W	5.35	1.09
3.8 W cb	4.96	1.93
1.2 E	4.86	1.53
25.08 E	4.73	1.66
3.8 E	4.86	1.53
53.8 E gut	5.42	0.97
53.8 E cb	4.92	1.97

0+100 SL JST edge pav.

♀ drain	5.47	0.92
1 W gut	5.47	0.92
1 W cb end	4.97	1.92
1.2 E = W 4	5.02	1.37
25.08 = ♀	4.94	1.95
3.8 E E 1/4	5.03	1.36
51 E - gut	5.57	0.80
51 E Top cb end	5.08	1.31

0+140

♀ FL inlet 15" pipe	6.20	0.19
♀ Top ground	4.9	1.5

0+15

♀ FL outlet 15" pipe	6.75	-0.36
E Top ground	4.9	1.5

2 W	4.9	1.5
2 E	4.7	1.7

0+74.4 2' W Guy Pole

0+97 1.3 W RR King Signal

1/100		
♀	6.5	-0.17
2 W	4.9	1.5
2 E	4.9	1.5

1+72.7 Top rail 5.49 0.90 RR Sidings

1+77.1 " " 5.45 0.94 " "

T.P. 4.78 6.07 ✓ 5.10 1.29

1+733

♀ FL outlet 15" x 1.4 Wood Box 6.76 -0.69 under siding

" " Top 5.7 0.9

1+775

♀	5.0	1.1
3 E	6.6	-0.5
6 E	4.6	1.5

2+104

FL inlet 24" pipe 7.15 -1.08 0.9 E of ♀ Prop drain

2 W	4.6	1.5
4 E	5.0	1.1

2+61.8 = June Box

Top grate	5.05	1.02
FL June Box	7.65	-1.58

4.76 E top grate 4.57 1.50 cleanout box

4.76 E FL 15" Wood Stave Pipe 6.37 -0.30

" " FL 15" Corrugated Pipe 6.48 -0.91

FL inlet 15" inlet " 6.26 -0.19

40' N of cleanout box

160) 250 (15625
120
88
28
40

TABLE No. 1

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 each
of table in same row and column gives distance

IMPROVED TABLES AND INFORMATION

BM.	10.130	218.08	207.95
T.P.		1.96	216.12
P.I.	5+13		217.45
P.T. N. Lin			218.76

216.12
10.25
216.37
12.95
213.42
7.27
210.67
5.67
215.02
9.57
223.51
4.13
219.76

SW
Rate
+
Cran
Sub d
Pater 25

The distance from a point on the tangent to
the curve is very nearly the square of the tangent
length divided by twice the radius.

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ 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 No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

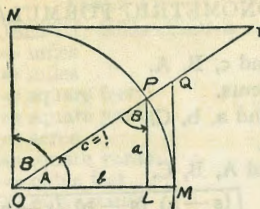
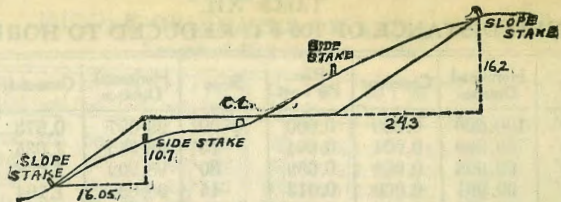


TABLE II
TRIGONOMETRIC FORMULÆ.

$$\begin{aligned} \angle A &= \angle MOP & \angle B &= \angle PON = \angle OPL \\ R &= OB = c = 1 \\ \sin A &= \frac{a}{c} = \frac{a}{1} = a = \cos B = LP \\ \cos A &= \frac{b}{c} = \frac{b}{1} = b = \sin B = OL \\ \tan A &= \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ \\ \cot A &= \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT \\ \sec A &= \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ \\ \csc A &= \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT \\ \text{vers } A &= \frac{LM}{OP} = LM = \text{covers } B \# \\ \text{covers } A &= \frac{OP - LP}{OP} = OP - LP = \text{vers } B \\ \text{exsec } A &= PQ = \text{coexsec } B \\ \text{coexsec } A &= PT = \text{exsec } B \\ \sin \frac{1}{2} A &= \sqrt{\frac{1 - \cos A}{2}} & \cos \frac{1}{2} A &= \sqrt{\frac{1 + \cos A}{2}} \\ \sin 2A &= 2 \sin A \cos A & \cos 2A &= \cos^2 A - \sin^2 A \\ \text{Law of Sines} & \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c} \\ \text{Law of Cosines} & c^2 = a^2 + b^2 - 2ab \cos C \\ \text{Law of Tangents} & \frac{a+b}{a-b} = \frac{\tan \frac{1}{2}(A+B)}{\tan \frac{1}{2}(A-B)} \end{aligned}$$



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

Computed by L. Leland Locke.

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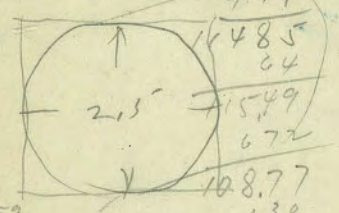
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