PLANS SURVEY

FORT SNELLING - BRIDGE APPROACH

CO. PROJ. Nº 25-58

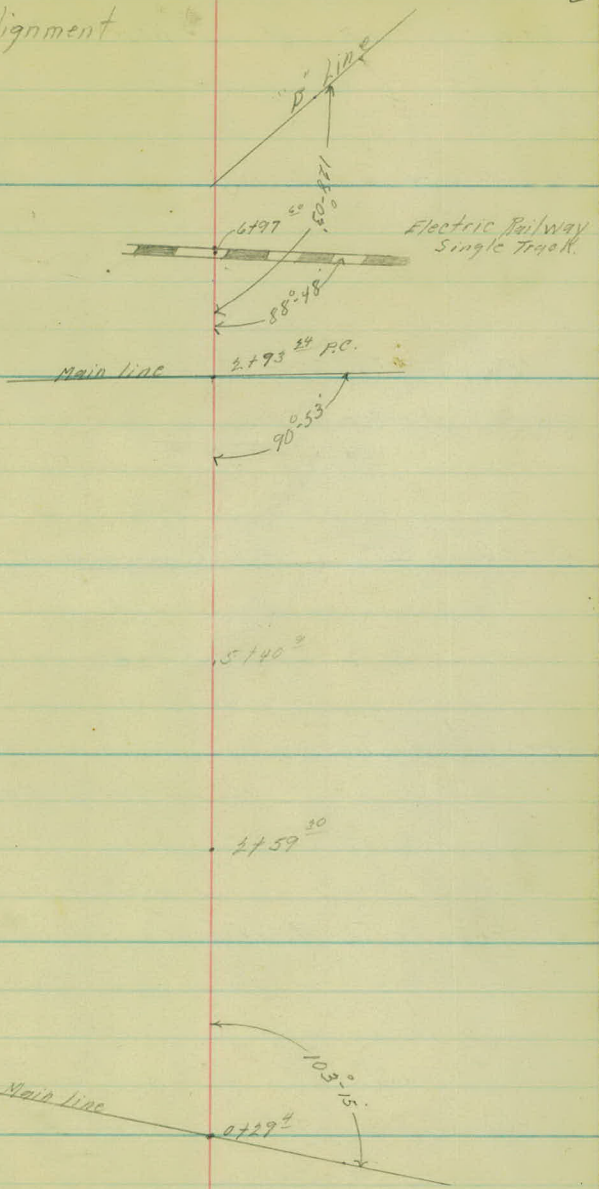
FILE Nº 14

Office of Ramsey Co. Engineer
ST. PAUL, MINN.
Date Filed 8-20-25
File No. 14

"A" Line (Alignment)

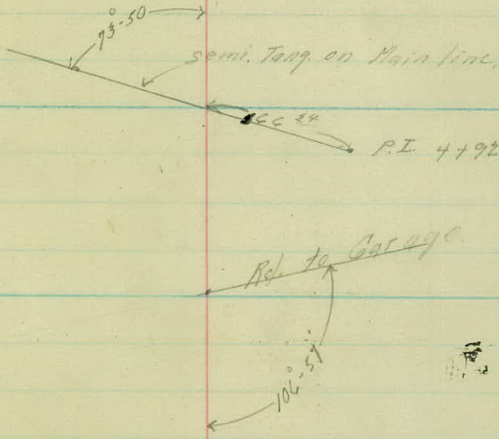
Sta.	Point	Lt.	Rt.
07+30.34	P.I.	87°-23'	
06+30.29	P.I.	6°-12	
05+49.69	P.I.		48°-24'
03+07.54	P.I.		80°-41'
01+51.45	P.I.		65°-03'
0+00	=0+29.4	103°-15'	

"A" Line Alignment



Sta.	Point	∠	RT
11+36.5	P.O.T.	End of Base Line	
11+00	P.I.	9°-10'	
10+50	P.I.	7°-30'	
10+00	P.I.	7°-03'	
09+42.79	P.O.T.		
09+42.0	P.I.	9°-11'	
08+68.19	P.I.	94°-14'	

"A" Line. Alignment



"A" Line Topog.

2+50

2+00

1+00

0+00

A Line Topog.

740 Wall 92.5
740 ℄ 84.85 L

797 Wall 95.5 Wall
797 ℄ 119.50 L

752.45 Wall 9 L

752.46 External 13.8

Lawn

782 Guy Wire 12 L

776 R.R. 19 L

754 Electric Pole 21 L
747 R.R. 16 L
742 Beginning of
20" x 2' Stone Wall 26 L

737 - 4" - T. - 13 L

19 91

5+00

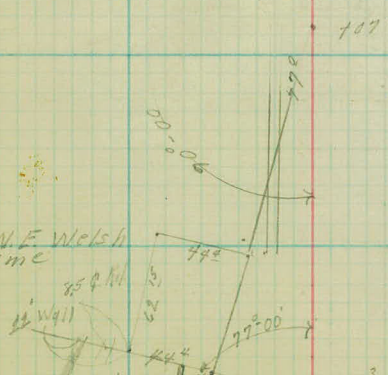
3+00

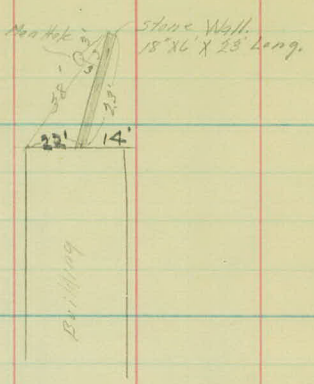
+91.5 Edge Side Walk 4' L. 5' Wide

+83 - 24" - T 25 L.
+79 Side Walk 22.5
+77 Side Walk 27.3 L. 5' Wide

2+50

A. Line Topog.



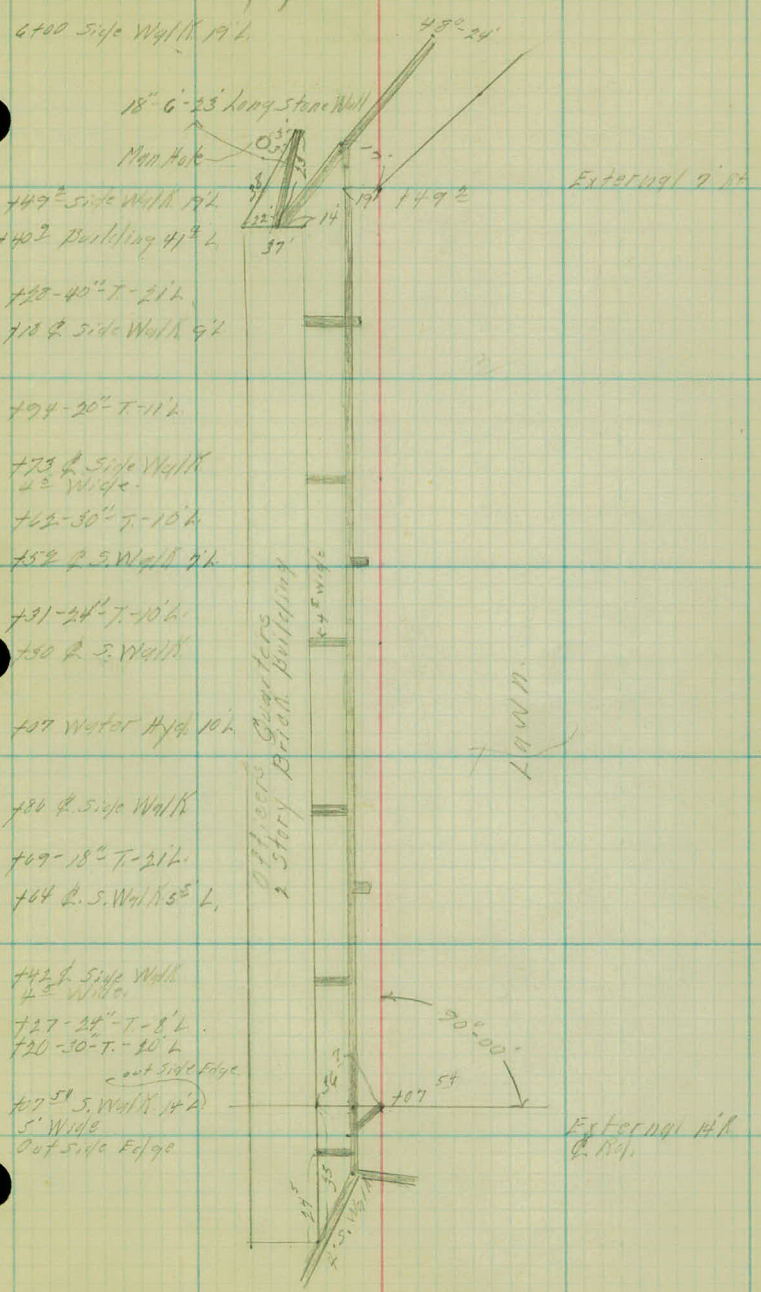


5700

4700

3700

47" Line Topog.



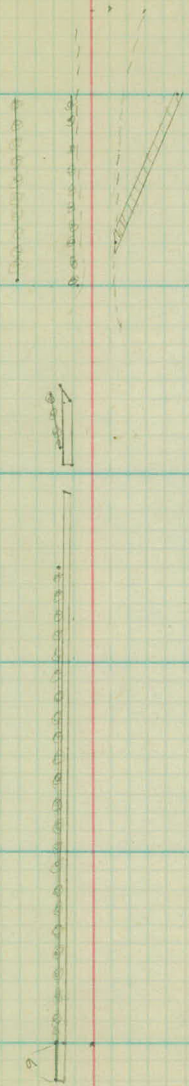
8+00

7+00

6+00

5+49.2

"A" Line Topog.



+00 ℄ Track 34° L.

+64 Electric Pole 43' L.

+41 [illegible] 22° L.

+32 Beginning of Hedge 40' L.

+30 Hedge Cor. 3' L.

+23 Hedge Cor 22' L.

+24 End of Side Walk 18° L.

+18 End of Side Walk 11' L.

+07 Beginning of Hedge 15° L.

+02 Beginning of Side Walk 28° L. 5' Wide.

End +95 Side Walk 15° L. 5' Wide

+75 End of Hedge 18° L.

+41 - 20" T. - 7' L.

+21 - 34" T. - 9' L.

+17 Water Hyd. 37' L.

+72 - 40" T. - 9' L.

+57 - 14" T. - 10' L.

Hedge 28' L.

+49° Side Walk 17° L. 5' Wide Out side Edge.

+00 ℄ Side Walk 46° L.

+98 - 18" T. - 20' L.

+61° 5' Side Walk 12° L. 5° Wide

+58 - 24" T. - 16' L.

+79 Catch Basin 10° L.

736°

11700

10700

9700

8700

"47" Line, Topog.

136 S Building 9° L

+59 - 20" - T - 19 R.

+17 - 24" - T - 22 R
+13 - P.P. - 10 R.

+03 Electric Pole 12

+97 - 8" Track

+58 End of Hedge 15 L.

+50 Hedge 11 L.

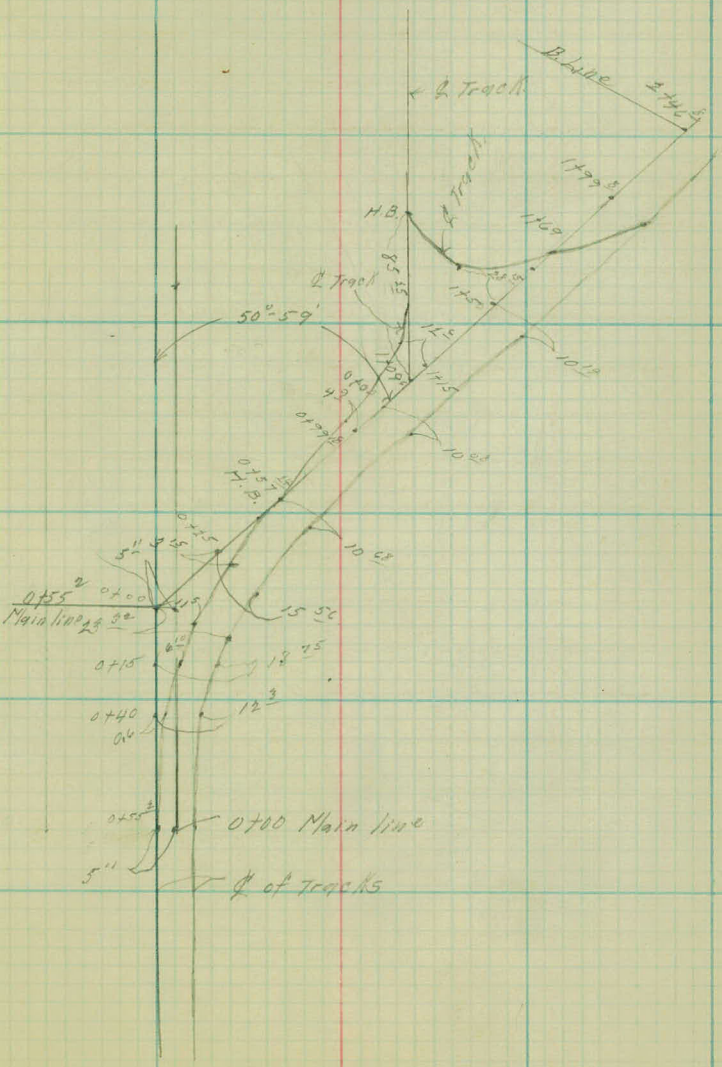
+49 - 10" - T - 16 L.
+37 Electric Pole 24 L.

+20 P.P. T.P 24 L.

+08 End of Hedge 41 S

+21 - 30" - T - 18 R.

Track Detail - One Sheet



Main Line

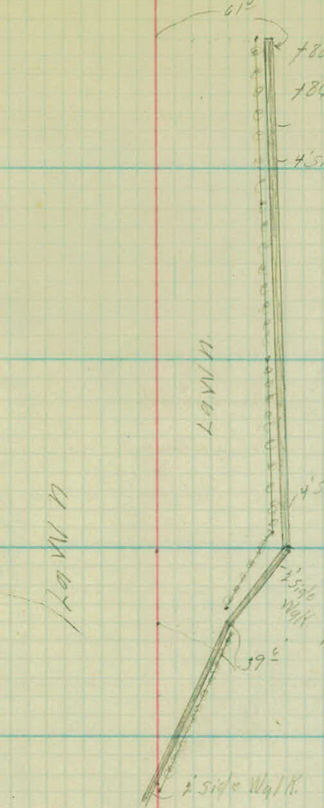
Sta.

2+00

1+00

0+00

Main Line.



+88^9 End of Side Walk. 61^5
+86 + End of Hedge 54^5
+88 - 14" - T. - 54^5

+10 Electric Pole 59^4
+00 Hedge 60' R. ✓
+75 - 30" - T. - 61. R. ✓
+58 - 24" - T. - 47 R. ✓
+49 Out Side Cor. of Side Walk 71^2 R. ✓
+53 Cor. of Hedge 63' R. ✓
+48 Electric Pole [illegible] ✓
+45 - 12" - T. - 36' R. ✓

+34 Beginning of Hedge 39' R. ✓
+27 End of Hedge 40' R.
+29^c Side Walk 39^c
+28 - 12" - T. - 40 R. ✓
+17 P.P. 32 R.

+04 - 36" - T. - 19' R. ✓

+92 Electric Pole 14
+86 - 20 - T. - 5 - 1

+85^2 Edge of Side Walk
+84 Beginning Hedge 0.5 Rt.

Sta.

6+00

5+00

4+00

Main Line

700 ℄ Rd. 55'
700 ℄ Trench 44 3/4

174 Electric Pole 26'

750 ℄ Rd. 59'
750 ℄ Trench 35 1/2

48 Electric Pole 12'

494 P.P. 25 1/2 R.
420 ℄ Trench 39'
700 ℄ Rd. 65' R

769 ℄ Rd. 69' R
450 ℄ Trench 44 3/4'

"C" Line
2 Sheets

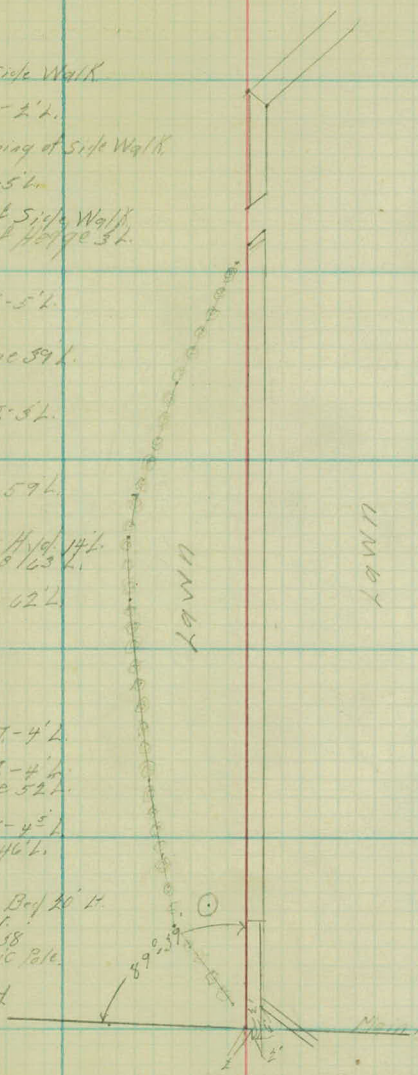
579.

2700

1700

0700 = 0777½ On Main line

"C" Line.



747.35 A Side Walk.
739-24"-T.-2'L.
720 Beginning of Side Walk.
718-20"-T.-5'L.
705 End of Side Walk.
702 End of Hedge 3'L.
694-18"-T.-5'L.
669 Hedge 39'L.
668-14"-T.-3'L.
641 Hedge 59'L.
628 Water Hyd. 14'L.
628 Hedge 163'L.
613 Hedge 62'L.
584-26"-T.-4'L.
566-30"-T.-4'L.
565 Hedge 52'L.
546-36"-T.-4.5'L.
541 Hedge 46'L.
532 Flower Bed 20'L. 10' Diameter.
526 Hedge 38'
524 Electric Pole.
506 Hedge 34'L.

743.8 Side Walk W.S.
724 Beginning of Side Walk.
709.3 End of Side Walk.
701-18"-T.-2'R.
741-24"-T.-10'R.
711-18"-T.-10'R.
693-18"-T.-10'R.
727.5 S.W. 4.8 W.W.
727.5 S.W. 4 W.W.

"B" Line (2 Sheets)

0 +0C = 7+30 [2] Au Base line

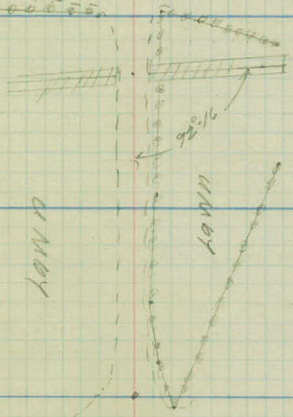
B. Line

01+06 Hedge Cor. 21

01+04-24"-T.-19'L.

+86 ± ℄ Side Walk 9' L. 4' Wide

+34-24"-T.-11'L.



01+02 Hedge Cor. 13' R.

01+02 Electric Pole 13' R.

+95-12"-T.-25'

+77+ End of Hedge 94' R.

+86 ± ℄ Side Walk 8± R. 82' Long 4' Wide

+71-12"-T.-45' R.

+67 P.C. 81' R.

+63 End of Hedge 77'

+62-30"-T.-41' R.

+58-12"-T.-59' R.

+54 Hedge 11' R.

+47 Electric Pole 62'

+25 Hedge 9' R.

+09 Hedge 12' R.

-06 Beginning of Hedge 21 ±

Line Parallel to ℄ 64' Rt of Main Line

Same Stationing as Main Line

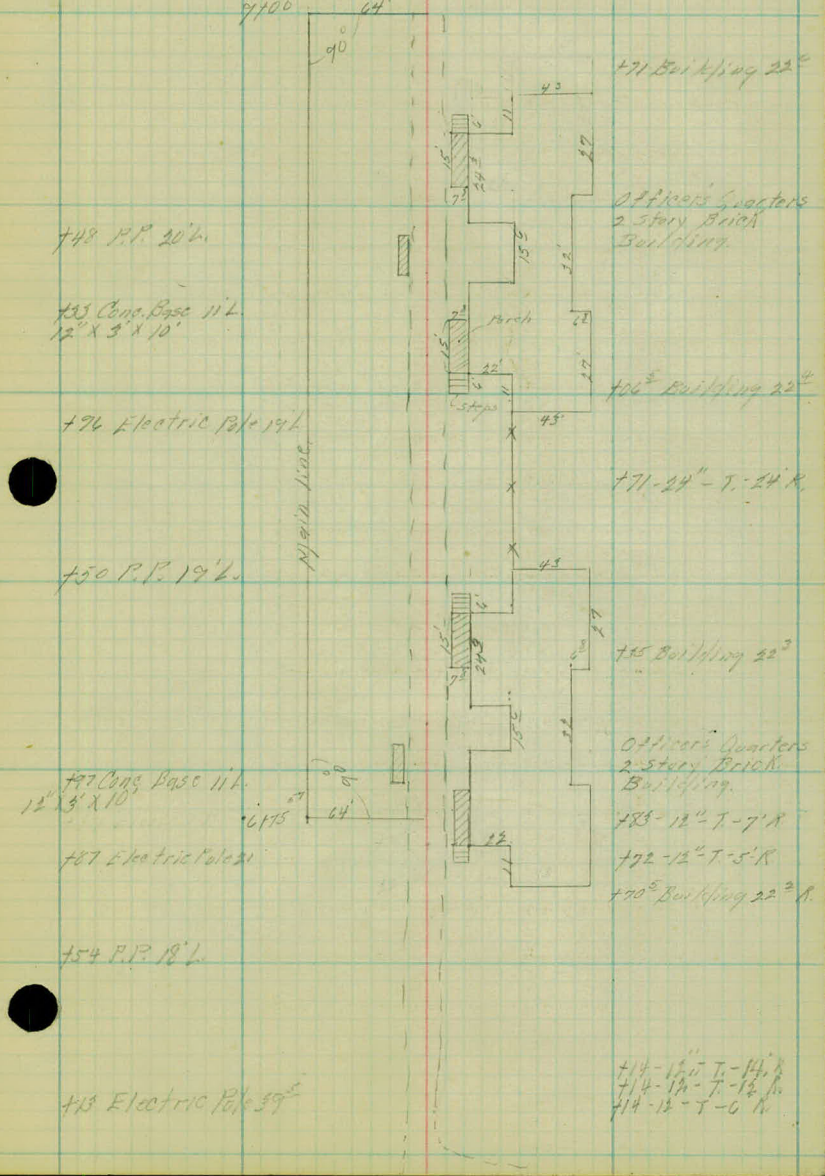
9+00

8+00

7+00

6+00

Parallel to Main.



+71 Building 22²

+48 P.P. 20'L.

+73 Conc. Base 11'L. 12"X3'X10'

+76 Electric Pole 19'L.

+71-24"-T.-24'R.

+50 P.P. 19'L.

+75 Building 22³

+77 Conc. Base 11'L. 12"X3'X10'

+88-12"-T.-7'R

+67 Electric Pole 21

+72-12"-T.-5'R

+70 Building 22³ R.

+54 P.P. 18'L.

+14-12"-T.-14'R.
+14-12"-T.-12'R.
+14-12"-T-0 R.

+43 Electric Pole 39'

10700

9700

+94-24"-T.-21K

+69-24"-T.-21K

+50 P.P. 20K

Main Line

+49 Guy Pole 21K
+31-24"-T.-20K
+18-18"-T.-20K

+89 Electric Pole 20K

GNS
D.S
NIC

Page

Fort Snelling 1-8

And

Garage Road 9-10

Sta	+	HI	−	Elev	
B.M.	3.78	112.72		108.94	
0+00					109.17
+08.5					109.1
+35					109.0
+43					109.07
+52					109.17
+79					108.9
1+00					108.62
+50					108.19
2+00					107.77
+50				107.35	
+70				107.27	
+72				107.27	

T TR (3.68) TR TP

3.3 3.17 3.7 3.55 3.46 3.50 3.50 3.6 3.6 3.1 3.4
33 176 184 74 26 3 8 17.5 18 33

TR (2.8)

3.25 3.15 3.8 3.60 3.10 3.6 3.55 3.45 3.63 3.15 3.45
3.3 2.5 2.2 3.4 2.4 3 8.5 2.3 2.5 3.3

TR (3.9) TR TP TR

4.17 3.87 3.6 3.6 3.7 3.55 3.6 3.72 3.5
3.3 20 6.7 3.4 1.5 9 14.2 33

TR (3.7)

4.2 3.6 4.2 3.58 3.6 3.45 3.8 3.63 3.8 3.7
3.3 2.2 2.1 3.5 0.7 4.7 12.3 17.6 33

TR (3.8) TR TR TR TR

4.5 3.5 4.10 4.00 3.55 3.67 3.85 3.63 3.77 3.7
33 17.4 17.4 15.4 4 9.7 17.5 23 33

(3.8)

4.4 4.05 4.08 4.15 3.8 3.95 TR 3.93
33 17.7 17.7 15 19 33

(4.7)

4.6 3.92 4.48 4.40 4.10 4.45 4.1 4.0
3.3 18 18 15.8 18.5 24 33

(4.6)

4.4 4.40 5.00 4.83 4.53 4.95 5.04 4.40 4.3
33 15.7 17.7 15.1 16 18 18 33

(4.3)

4.5 4.85 4.45 5.37 4.75 5.35 5.42 4.82 4.6
33 18 18 16 16 18 18 33

(4.9)

4.80 5.30 5.92 5.80 5.37 5.80 5.90 5.28 4.3
30 18 18 16 16 18 18 33

(4.7)

4.8 5.42 6.05 5.95 5.45 5.96 6.12 5.50 4.8
33 18 18 16 16 18 18 33

(4.7)

4.8 5.35 5.95 5.87 5.45 5.95 6.07 5.45 4.8
33 18 18 16 16 18 18 33

Sta	+	HI	+	Elev
		112.72		
2+85				107.27
+87				107.27
3+00				107.10
+01				107.07
+03				107.00
+16				106.67
+18				106.62
+30				106.42
+50				
+68				
+89				
4+08				

EC

5.0

4.87	4.92	5.35	5.47	5.45	5.47	5.43	5.00	4.79
33	27	29	24.5		24	29.3	29.3	33

5.2

5.1	5.2	5.30	5.45	5.17	5.1	5.1	
40	34	33		33.5	34	40	

5.2

5.1	5.10	5.30	5.62	5.18	5.50	
40	34	32.7		33.4	40	

4.8

4.8	4.9	5.35	5.65	5.65	5.50	5.24	4.88	4.2
40	33	33	24.7		26.5	33.2	33.2	40

4.7

TR

4.7	5.0	5.22	5.65	5.78	5.72	5.68	5.55	5.10	5.2	5.3	5.15
40	33	26.4	26.4	22.5		24	28	28	40	50	63

5.2

TR

4.8	5.0	6.0	6.57	6.50	6.45	6.50	5.92	5.4	5.33
45	37	18	18	16		16	18	18	50	63

5.4

TR.

5.0	5.0	6.02	6.64	6.55	6.10	6.50	6.65	6.0	5.3	5.7	5.45
50	35	18	18	16		15.8	17.8	17.8	25	50	61	62

6.2

										TR.
5.9	6.25	6.85	6.74	6.30	6.70	6.83	6.25	6.0	6.2	5.70
41	18	18	16		16	17.8	17.8	50	55	60

8.4

										TR
7.0	6.53	7.15	7.03	6.60	7.05	7.22	6.55	6.4	6.6	6.25
53	18	18	16		16	18	18.5	50	54	58

10.2

TR

8.5	8.2	6.9	6.90	7.85	7.40	6.95	7.35	7.40	6.80	7.0	7.1	6.65
60	50	32	18	18	16		16	18	18	50	52	54

10.4

11.2	9.0	7.4	7.20	7.86	7.65	7.25	7.65	7.75	7.2	7.3	7.6	7.50
70	50	31	18	18	16		16	18	18	44	50	51

10.3

TP

11.0	9.1	8.0	7.60	8.05	7.95	7.42	7.9	8.0	7.2	7.3	7.7	7.37
55	44	34	17.2	17.2			16	18	18	34	47	49

54	+	HI	−	Flow
		112 72		
4402				
+20				
+36				
+51				
+53				
+68				
+92				
5700 ✓				
+09				
T.P.	4.81	108.22	9.31	103.41
+21				
+50				
+70				
+82				

(10.2)

8.0/31 8.35/31 8.20/24 7.46 7.75/16 8.10/18 7.5/18 7.3/34 7.7/47 TR 7.35/47

(10.2)

E. Rau 8.74/294 7.78/12 7.73 8.15/16.2 8.19/18.2 7.62/18.2 7.4/29 7.8/45 TR 7.58/46.6

(9.7)

8.2/27 7.9/29.5 7.92/18 8.54/18 8.39/16 7.73 7.55/15.3 8.0/33.9 8.2/38 TR 7.90/43.4

(10.6)

8.2/26.5 8.0/20.4 8.18/18 8.78/18 8.72/16.2 8.20 8.35/15.8 8.30/22.4 E Rau 8.10/30.8 7.55/30.8 8.10/36.3 TR 8.10/41.8

(9.1)

8.3/26.4 8.2/20 8.24/17.8 8.86/17.8 8.77/15.9 8.24 8.51/19 8.46/21.9 7.92/21.9 7.8/30 T.R. 8.12/41.4

(9.0)

8.6/26.7 8.4/29.7 8.43/17.9 9.08/17.9 8.97/15.9 8.57 8.94/16 9.06/17.9 8.45/17.9 8.1/28 8.2/37 TR 8.21/39.8

(9.2)

9.9/33 8.9/27 8.8/20.8 8.83/18 9.48/18 9.31/16 8.93 9.35/15.9 9.42/17.8 8.92/17.8 8.3/29 8.3/35 TR 8.27/37.7

(9.1)

9.1/28 9.1/26.9 9.0/20.7 8.95/18 9.55/18 9.43/15.9 9.05 9.47/16 9.58/18 8.82/18 8.3/27 8.4/34 TR 8.35/36.9

(9.2)

9.4/29 9.3/28 9.1/20.6 9.10/17.9 9.68/17.9 9.52/15.8 9.18 9.60/16.2 9.70/18.1 9.08/18.1 8.3/28 8.3/34 TR 8.15/36.2

(4.4)

4.8/29.6 4.9/27 5.0/25 4.78/17.9 5.38/17.9 5.25/15.9 4.81 5.26/16.3 5.34/18.2 5.73/18.2 4.2/27 3.8/33 T.R 3.50/35.3

(4.4)

5.1/30 5.1/26.1 5.0/20.6 5.07/17.9 5.71/17.9 5.53/15.9 5.01 5.37/16 5.45/18 4.85/18 4.0/26 3.7/31.5 TR 3.66/32.5

(7.6)

5.7/29 5.2/26.8 5.1/20.6 5.10/18 5.72/18 5.57/16 5.05 5.50/15.9 5.59/17.9 4.96/17.9 5.5/21.7 3.8/30 RR 3.66/32.7

(12.6)

5.6/29 5.3/27 5.1/20.6 5.02/18.1 5.65/18.1 5.54/16.1 5.08 5.45/15.8 5.55/17.9 4.93/17.9 4.4/22.3 3.7/30 TR 3.74/32.3

Sta	+	HI	-	Elev
		108.22		
5+95				
6+00				
+08				
+40				
+75				
7+00				
+23				
+50				
8+00				
+50				
9+00				
+50				
T.P.	6.15	113.24	1.13	107.09

14.9

												T R
53	51	50	50	563	550	5.06	540	548	488	42	3.8	381
29	27	228	18.2	18.2	16.1		15.9	17.9	17.9	22	30	32

15.8

												T R
55	52	49	498	560	551	5.02	538	547	483	42	40	381
29	26.8	20.7	18	18	16		16	18	18	22	30	32.2

16.9

												T R
51	50	48	491	554	542	4.96	581	5.40	477	420	39	383
29	26.8	20.6	18.1	18.1	16.1		15.9	17.9	17.8	22	30	32

18.1

50	48	46	470	536	521	4.72	513	522	458	41	38	386
28	26.8	20.8	18.3	18.3	16.2		15.9	17.8	17.8	23	30	32.7

18.6

												T R
51	47	45	449	510	491	4.42	476	490	428	39	34	347
30.	24.7	20.7	18.1	18.1	16.1		16	18	18	22	31	33.1

17.6

												T R
53	46	44	436	495	482	4.25	461	470	410	3.0	3.0	301
31	27	20.7	18.2	18.2	15.7		15.9	18	18	26	31	30.1

15.9

												T R
48	43	40	413	474	458	4.08	446	456	395	34	28	266
30	24.7	20.6	18.1	18.1	16		15.9	18	18	23	35	33

10.0

												T R
45	42	40	385	445	426	3.76	418	428	367	3.0	25	241
29	24.8	20.6	17.9	17.9	15.9		16.2	18.2	18.2	24	30	33.2

10.1

41	36	33	332	393	384	3.40	376	388	335	28	23	225
29	26.6	20.7	18	18	16		15.9	19	18	24	30	32.9

14.2

33	30	29	290	350	343	3.04	341	351	290	26	23	22
30	26.7	20.5	18.1	18.1	16		15.9	18	18	24	29	32.7

11.3

29	28	25	250	310	298	2.55	298	310	246	24	24	212
35.1	27	20.1	18	18	16		15.9	18	18	24	30	32.4

7.2

23	23	22	22	280	260	2.05	237	248	182	19	21	190
32	27	20.7	18	18	16		16	18	18	25	30	32.8

Sta	+	HI	+	Elev
		113,24		
9+75				
10+00				
+15				
+36				
+50				
+60				
+80				
11+00				
+25				
+50				
12+00				
+50				

10.8

11.7 / 37

6.9 / 30 | 6.7 / 27 | 6.7 / 21 | 6.63 / 18.1 | 7.24 / 18.1 | 7.10 / 16.7 | 6.56 | 6.96 / 16 | 7.08 / 18 | 6.46 / 18 | 6.8 / 30 | 6.74 / 32.2 | TR

12.6

7.0 / 31 | 6.3 / 27 | 6.1 / 21 | 6.15 / 18.1 | 7.24 / 18.1 | 6.63 / 16.1 | 6.19 | 6.50 / 16 | 6.87 / 19.1 | 6.0 / 18.1 | 6.5 / 30 | 6.82 / 31.5 | TR

13.5

6.4 / 30 | 6.0 / 26 | 5.8 / 20 | 5.91 / 17.4 | 6.52 / 17.4 | 6.40 / 15.7 | 5.85 | 6.10 / 16.7 | 6.28 / 18.8 | 5.68 / 18.8 | 6.2 / 30 | 6.05 / 34 | TR

14.7

6.0 / 30 | 5.7 / 24 | 5.7 / 18.5 | 5.76 / 16 | 6.27 / 16 | 6.42 / 14 | 5.55 | 5.76 / 16.2 | 5.86 / 20.2 | 5.24 / 20.2 | 5.8 / 30 | 5.64 / 32

14.2

5.6 / 31 | 5.6 / 24 | 5.4 / 18 | 5.47 / 15.8 | 6.07 / 16.5 | 5.98 / 13.5 | 5.47 | 5.22 / 18.7 | 5.61 / 20.7 | 5.0 / 20.7 | 5.3 / 29 | 5.23 / 31.7 | TR

19.3

5.4 / 31 | 5.4 / 23 | 5.4 / 17 | 5.30 / 14.3 | 5.90 / 14.3 | 5.79 / 12.3 | 5.23 | 5.29 / 19.6 | 5.37 / 21.6 | 4.77 / 21.6 | 5.1 / 30 | 4.94 / 32.2

17.7

5.0 / 29 | 5.0 / 22 | 5.0 / 16 | 5.05 / 13 | 5.65 / 13 | 5.55 / 11 | 4.93 | 4.76 / 5 | 4.85 / 21.5 | 5.00 / 23.5 | 4.38 / 23.5 | 4.7 / 31 | 4.63 / 33

7.3

5.6 / 35 | 4.7 / 30 | 4.8 / 21 | 4.7 / 14.5 | 4.89 / 11.8 | 5.38 / 11.8 | 5.27 / 9.8 | 4.70 | 4.53 / 7 | 4.61 / 22.5 | 4.02 / 24.5 | 4.1 / 24.5 | 3.96 / 32 | 3.96 / 34

4.9

6.8 / 45 | 6.7 / 38 | 4.3 / 26 | 4.7 / 19 | 4.8 / 13 | 4.8 / 10 | 4.35 / 10 | 4.97 / 10 | 4.85 / 8 | 4.31 | 3.91 / 10 | 3.96 / 24.5 | 3.96 / 26.5 | 3.45 / 26 | 3.6 / 35 | 3.70 / 36.

4.8

7.0 / 50 | 5.9 / 37 | 3.7 / 24 | 4.0 / 17 | 3.87 / 10.5 | 4.14 / 8.5 | 4.47 / 8.5 | 4.56 / 6.5 | 4.11 | 3.57 / 11 | 3.42 / 25.8 | 3.37 / 27.8 | 2.92 / 27.8 | 3.1 / 38 | 2.96 / 38.8

4.8

9.7 / 98

6.7 / 50 | 6.3 / 32 | 4.8 / 27 | 3.7 / 21 | 5.3 / 14 | 3.8 / 5.5 | 3.42 / 5.5 | 4.02 / 5.5 | 3.92 / 3.5 | 3.96 | 2.78 / 13 | 3.45 / 28.2 | 3.18 / 27.2 | 2.2 / 27.2 | 2.02 / 38 | 1.55 / 38 | TR

5.9

106 / 100

9.5 / 84 | 6.7 / 69 | 5.1 / 50 | 3.0 / 21 | 2.9 / 32 | 2.9 / 23 | 2.81 / 23.5 | 3.40 / 20.5 | 3.32 / 17.5 | 2.8 | 2.31 / 17 | 2.76 / 16.5 | 2.12 / 17.5 | 1.62 / 50 | 1.65 / 54 | 1.8 / 79 | 0.9 / 83 | 0.1 / 100 | TR

34a	+	HI	-	Elev	
		113.24			
12+70					
+80.8	Edge MP/6 Pav				
T.P.	3.77	113.62	3.39	109.85	
BM.			0.36	113.26	113.28
BM.	1.93	105.34		103.41	
41.92					
5+00					
409					
T.P.	2.25	95.98	11.61	93.73	
+21					
+50					
+70					
+87					
+95					

6.8/95 9.5/100

(5.9)

2.8/88 2.7/87 2.6/50 2.62/44.5 3.22/44.5 3.14/41.5 2.73/20 2.40 2.11/2.0 1.62/49 1.46/58 1.11/75 0.43/75 0.09/100

C.

Bridge

2.35/91 3.17/91 2.92/50 2.58/20 2.39 2.02/28 1.59/50 1.30/70

Pav C

0.82/95 0.17/95

9.2/48 8.5/43 (1.8)

10.6/55 8.4/44.9 (1.7)

12.8/50 12.2/45 (1.8)

4.0/53 3.8/48 (+7.8)

4.8/56 3.3/45 (+7.8)

5.1/58 2.7/44 (+4.6)

T.C

Carotid 6.2/54 3.0/47 (0.9)

T.C

G 6.2/51 (2.7)

6+00		95.98		
+08				
+40				
+75				
7+00				
+23				
T.P.	1.28	96.99	7.27	88.71
+50				
8+00				
+50				
9+00				
T.P.	6.09	86.63	10.45	86.54
TP	1.89	77.79	10.73	75.90
T.P.	0.63	66.77	11.65	66.14
9+00				

T.C.
$\frac{6.2}{51}$ (3.6)

T.C.
$\frac{6.1}{50}$ (4.7)

Garage

TC
$\frac{6.2}{50}$ (5.9)

TC
$\frac{6.4}{57}$ (6.4)

$\frac{7.4}{55}$ $\frac{6.6}{51}$ (5.4)

$\frac{7.9}{57}$ $\frac{7.2}{51}$ (3.7)

$\frac{8.6}{54}$ $\frac{7.5}{47}$ (+1.2)

$\frac{5.4}{55}$ $\frac{4.7}{46}$ (+1.1)

$\frac{4.7}{54}$ $\frac{4.0}{49}$ (3.0)

$\frac{6.2}{55}$ (0.1)

1

$\frac{13.2}{110}$ $\frac{13.0}{105}$ (+30.1)

Sta	+	HI	−	Elev	
		66.77			
T.P. 9+50	0.88	55.51	12.14	54.63	
T.P.	11.33	65.96	0.88	54.63	
	11.16	76.93	0.19	65.77	
9+75					
T.P.	11.17	87.67	0.43	76.50	
T.P.	8.02	95.28	0.41	87.26	
10+00					
+15					
+36					
+50					
+60					
+80					
11+00					
T.P.	11.24	106.37	0.15	95.13	
T.P.	8.99	114.35	1.01	105.36	
B.M.			1.11	113.24	113.28

$\frac{11.6}{118}$ $\frac{13.9}{133}$ (+45.5)

$\frac{44}{88}$ $\frac{43}{80}$ (+25.5)

$\frac{5.6}{55}$ $\frac{4.9}{51}$ (+5.3)

$\frac{5.9}{60}$ $\frac{4.9}{54}$ (+2.4)

$\frac{7.6}{66}$ $\frac{5.8}{56}$ (+3.2)

$\frac{8.9}{65}$ $\frac{8.6}{60}$ (+3.7)

$\frac{9.8}{70}$ $\frac{8.2}{60}$ (1.4)

$\frac{10.0}{70}$ $\frac{7.3}{62}$ (+0.2)

$\frac{5.0}{60}$ $\frac{4.6}{57}$ (+0.6)

X Sections George Road.

	+	17 I	-	Elev
B.M.	2.69	106.10		103.41
+30				
+36				
+56				
+75				
1+00				
+04				
+06				
+19				
T.P.	1.72	99.64	8.18	97.92
+27				
+36				
+46				
+67				

(4.1)

$\frac{4.3}{33}$ $\frac{2.8}{13}$ 2.2 $\frac{2.2}{7}$

(3.8)

$\frac{3.7}{33}$ $\frac{3.6}{26}$ $\frac{3.9}{11}$ 3.6 $\frac{3.4}{8}$ $\frac{4.0}{9}$ $\frac{3.4}{11}$ $\frac{2.5}{16}$ $\frac{1.6}{33}$

(4.4)

$\frac{4.8}{33}$ $\frac{4.6}{23}$ $\frac{4.1}{9}$ $\frac{4.5}{8}$ 4.6 $\frac{4.7}{8}$ $\frac{5.0}{10}$ $\frac{4.7}{11}$ $\frac{3.1}{17}$ $\frac{2.4}{29}$ $\frac{2.2}{33}$ $\frac{1.9}{42}$

(5.0)

$\frac{7.9}{33}$ $\frac{7.9}{16}$ $\frac{9.0}{13}$ $\frac{6.9}{10}$ $\frac{6.3}{7}$ 6.3 $\frac{6.3}{9}$ $\frac{6.6}{10}$ $\frac{6.2}{12}$ $\frac{4.5}{17}$ $\frac{3.7}{33}$ $\frac{2.7}{45}$ $\frac{2.0}{49}$

(5.6)

$\frac{9.2}{33}$ $\frac{8.9}{21}$ $\frac{10.2}{14}$ $\frac{6.5}{11}$ 6.5 $\frac{6.6}{9}$ $\frac{6.9}{11}$ $\frac{6.5}{12}$ $\frac{5.1}{16}$ $\frac{4.9}{26}$ $\frac{4.2}{33}$

(7.2)

$\frac{9.6}{33}$ $\frac{9.7}{22}$ $\frac{10.9}{15}$ $\frac{6.6}{7}$ 6.7 $\frac{6.9}{9}$ $\frac{7.1}{11}$ $\frac{6.8}{12}$ $\frac{5.4}{17}$ $\frac{5.3}{26}$ $\frac{7.7}{33}$

(14.4)

$\frac{15.6}{33}$ $\frac{14.9}{24}$ $\frac{12.2}{21}$ $\frac{11.3}{15}$ $\frac{7.8}{8}$ 7.7 $\frac{7.9}{9}$ $\frac{8.2}{11}$ $\frac{7.8}{12}$ $\frac{7.2}{16}$ $\frac{7.4}{24}$ $\frac{9.8}{33}$

(9.4)

$\frac{9.8}{33}$ $\frac{6.1}{27}$ $\frac{4.5}{20}$ $\frac{6.4}{16}$ $\frac{1.8}{8}$ 1.9 $\frac{1.9}{9}$ $\frac{2.3}{11}$ $\frac{1.9}{12}$ $\frac{1.4}{23}$ $\frac{0.9}{31}$ $\frac{5.0}{33}$

(8.5)

$\frac{9.7}{33}$ $\frac{7.2}{24}$ $\frac{8.3}{20}$ $\frac{8.0}{16}$ $\frac{2.3}{8}$ 2.4 $\frac{2.7}{9}$ $\frac{3.0}{10}$ $\frac{2.6}{12}$ $\frac{2.1}{20}$ $\frac{6.2}{28}$ $\frac{5.9}{33}$

(10.6)

$\frac{12.5}{33}$ $\frac{10.2}{18}$ $\frac{3.2}{9}$ 3.2 $\frac{3.4}{8}$ $\frac{3.7}{9}$ $\frac{3.3}{11}$ $\frac{2.8}{17}$ $\frac{6.7}{25}$ $\frac{7.0}{33}$

(11.3)

$\frac{13.6}{33}$ $\frac{12.6}{21}$ $\frac{4.9}{9}$ 5.0 $\frac{5.1}{6}$ $\frac{5.4}{8}$ $\frac{5.2}{10}$ $\frac{5.2}{12}$ $\frac{8.5}{17}$ $\frac{8.8}{33}$

Sta	+	HI 9964	-	Elev
1+69				
2+00				
T P	3.19	9410	8.73	90.91
+25				
+50				
+75				
+88				
3+00				
+27				
+50				
+60				
B.M.			3.81	90.29 ± 90.30

(9.5)

13.7/33 12.6/22 5.1/10 5.1 5.3/6 5.6/8 5.4/9 5.4/12 8.5/15 8.8/33

(10.1)

14.0/33 13.5/30 7.7/18 7.4/12 7.5 7.6/5 7.9/6 7.6/8 7.5/11 9.8/14 9.3/33

(6.1)

7.1/33 4.0/22 3.5/13 3.8 3.9/3 4.3/5 4.0/6 3.8/15 4.2/18 3.8/33

(5.4)

8.3/37 5.3/30 4.4/26 4.3/11 4.7/10 4.8 5.1/10 4.8/31

(5.6)

8.4/34 5.2/29 4.4/17 4.6/8 5.1 5.3/16 4.8/32

(5.2)

8.5/37 5.7/33 4.8/20 4.9/9 5.0 5.2/15 4.9/32

(4.2)

7.1/37 5.1/30 4.9/9 5.0 5.2/15 4.9/32

(5.8)

7.1/36 5.6/31 5.1/22 4.8/9 4.9 5.0/15 4.8/32

(6.2)

7.1/33 6.1/16 4.9/10 4.7 4.9/15 4.7/32

(6.2)

6.9/33 6.6/11 6.0 6.4/14 6.2/33