

Bk 47 Dr. 11

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan Survey

Western Ave

From McCarrons Blvd To Minnesota Ave
No.

Road Acc't. No. R-16

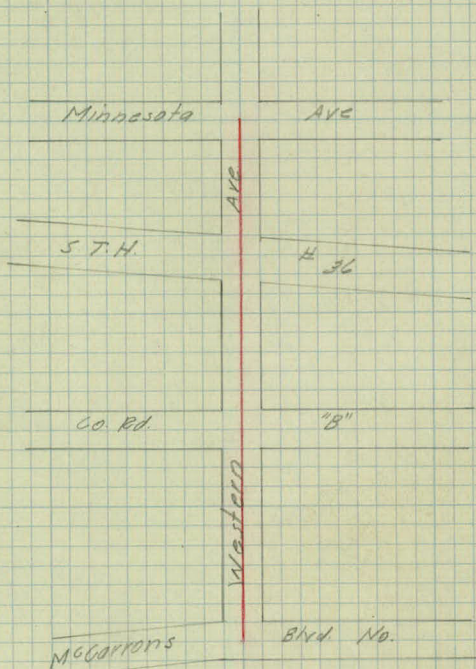
Date Filed 6-11-40

File

PLAN SURVEY

WESTERN AVE.

McCarrens Blvd. N. to Minnesota Ave.



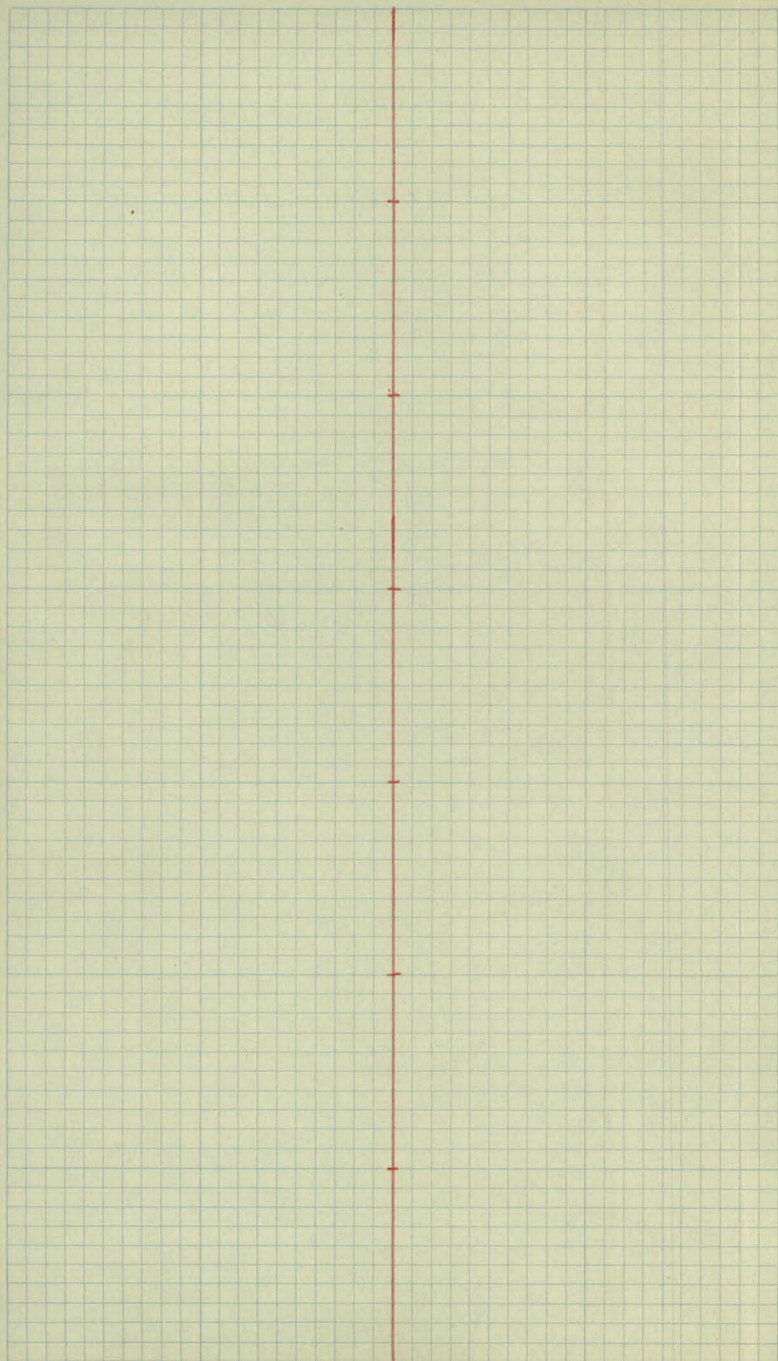
INDEX.

Align - 1-3

Topog. - 4-9

X Sections - 10-21

Plans Completed
5-2-41



1

Alignment

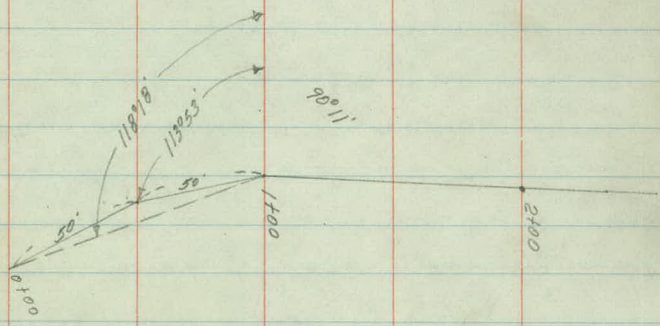
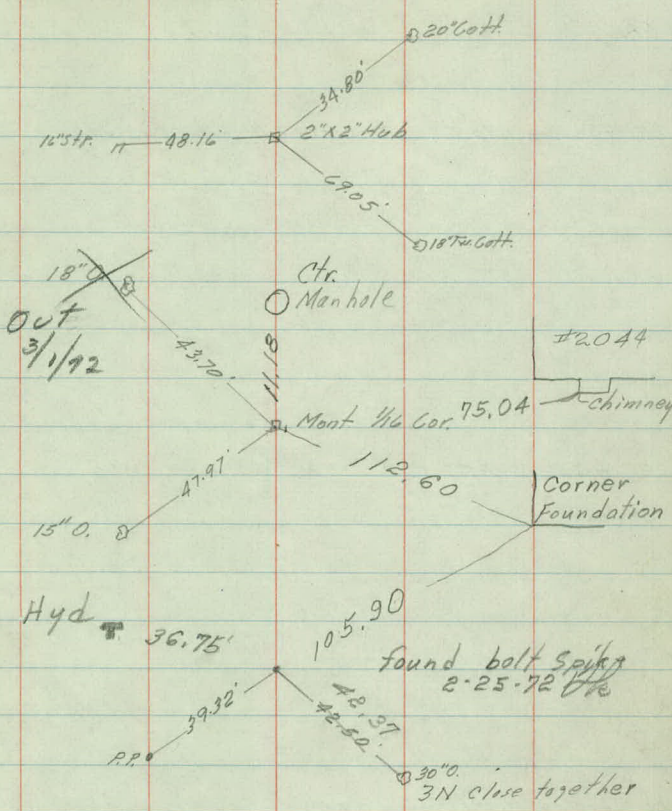
Sta	Point	ΔLt	ΔRt
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3	+12.85	P.O.T.	
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1	+65.62	P.O.T.	
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0	+00	= P.O.T. = Plotted to McCarrans Blvd. No.	
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0	-03.81	= to Travelled Rdwy. McCarrans Blvd. No.	
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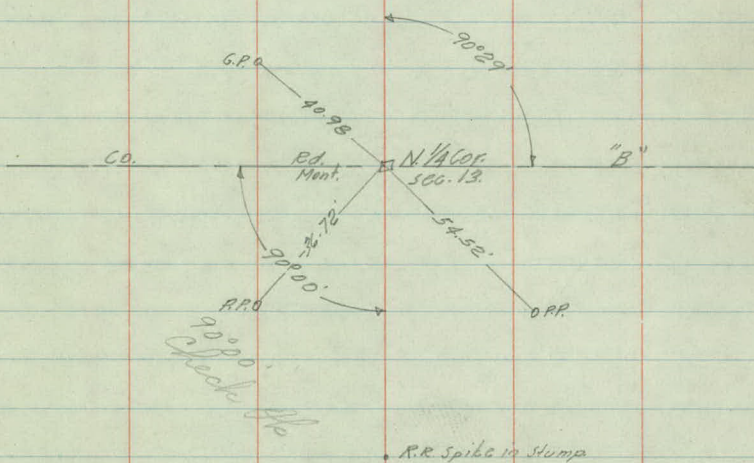
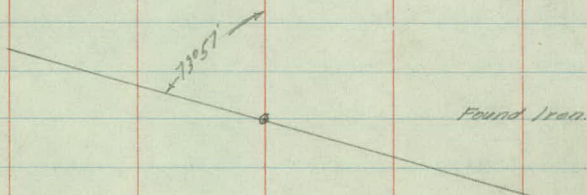
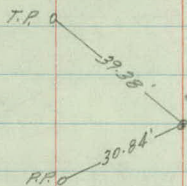
Sta	Point	Δ Lt	Δ Rt
-----	-------	-------------	-------------

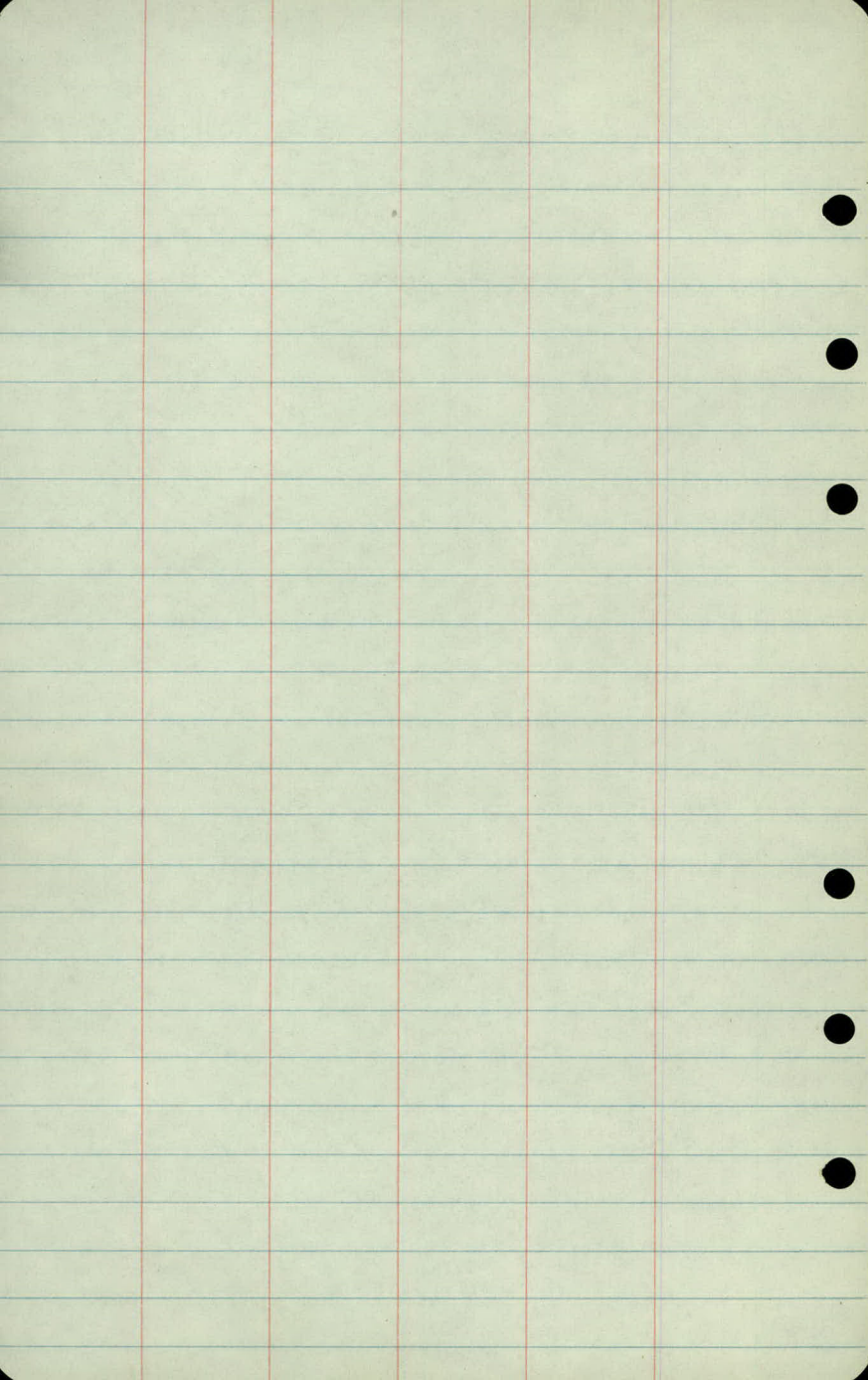
27	+95.54	P.O.T = Sta. 26 + 12.7	Minnesota Ave.
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22	+05.62	P.O.T = & S.T.H. #36	
----	--------	----------------------	--

14	+72.89	R.I.	0°06'
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4	+18.05	P.O.T.	
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4

Topography

197-6"0-2'
 192-12"0-35'
 178-54-3'
 168-6"0-3' 172-6"0-8'
 156-12"Coll-28'
 151-12"0-39'
 137-36"Coll-27'
 151-54-1'
 120-80 Coll-4' 123-Rope Tie
 107-13"0-27' 103-6"0-00 118-6"0-2'
 3 54-4'-44' 13'-23'

199-54-25'-46'
 170-12"0-45'
 160-54-43'-16"0-12' 12"0-4'
 123-10"0-24' 154-54-45'
 119-54-22'-16' 12"0-6'
 108-12"0-25'
 101-54-21' 106-8"0-33'
 2 18"0-30' 15'-25' 54-1'

1
 188-20"0-1'
 168-12"0-6' 18"0-22'
 153-20"0-8'
 149-24"0-39' 149-18"0-7'
 143-18"0-8' 145-54-10'
 133-15"0-37' 134-15"0-4'
 117-20"0-2' 125-54-30'
 1 107-54-17' 114-54-9' 15'-26' 107-20"0-3'

146-24"0-3'
 147-15"0-13' 186-54-14'
 146-15"Tw.0-27' 131-End
 134-54-10' 140-20"0-4'
 120-12"0-42' 138-12"0-37'
 128-24"0-4' 129-20"0-33'
 126-15"0-13' 129+15"0-15'
 0+00 105-Edge 31 Top
 146-15"0-33'
 152-5 Tw.0-32'
 135-4"0-38'
 117-End 18"6-NT-37'
 115-End Coll-1'

2 10' 9'

10' 9'

1 Gutter-19' 9' 12'

Gutter-25' 10' 10' 164-PP-14

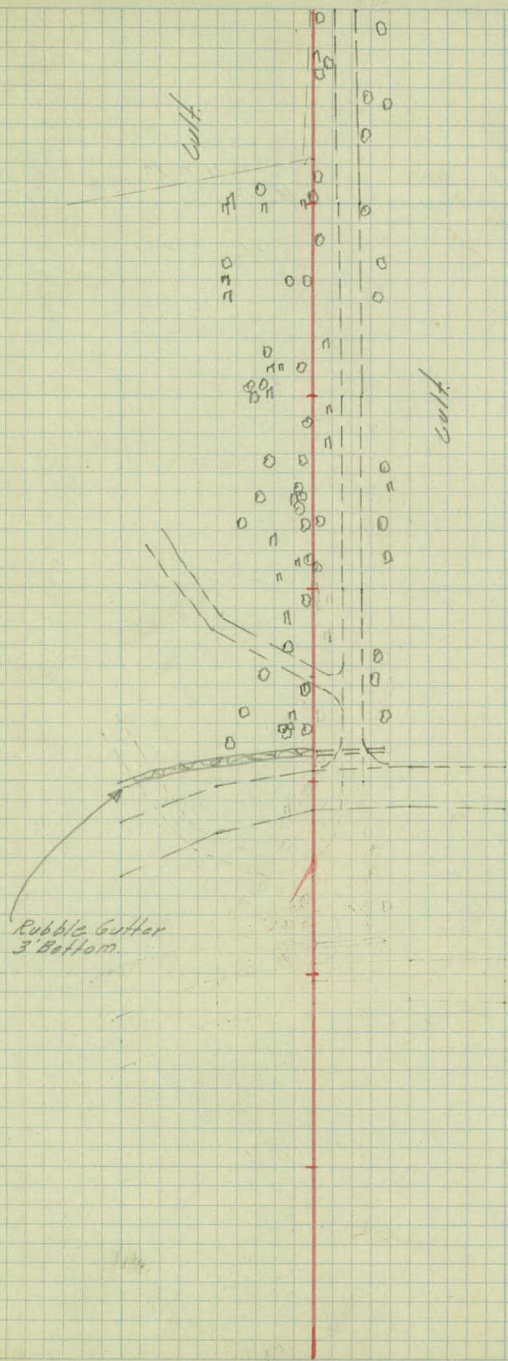
0+00 Gutter-30' 10' 10'

Along McCarver Blvd.

Rubble Gutter
3' Bottom

Cult.

Cult.



+21-6" B.E.-19'

10

+06-10" O.-35'
18-26'

+75-12" O.-35'

9

Cult.-26

18-26'

+21-Cult-00

+50-800 Cult-00

8

13-23'

7

11'-21'

+78-42" Stk.-29'

+38 End Cult-00

6

+02-12" B.E.-30'
11'-21'

+78-2-8" B.E.-37'

+93-Grav 3-8" B.E. 33'

+24-Stk.-26'

+04-Stk.-2'

+01-Stk.-2'

5

Cult.-2'

12-20' 12" O.-34'

+99-6" O.-4'

+98-Stk.-2' 8" O.-3'

4

Cult.-3'

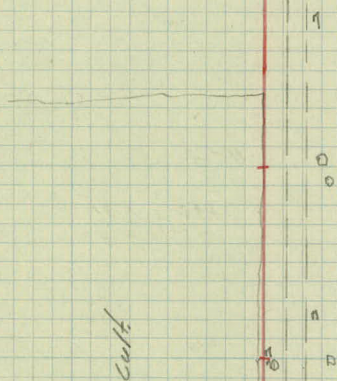
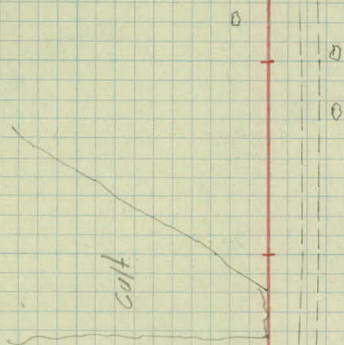
+18-Stk.-00

+22-6" Tw. O.-6'

+9-Stk.-1'

+04-24" Cult.-23'

11'-22'



17

5' 12'

16'

00-15'

15

+06-G.P.-24'

5'-17'

+83-Bl Top N-1/2

+61-Bl Top-XSR

+45-P.P.-25'

+38-10" O.-17'

+45-P.P.-48'

14

10'-21'

+26-N.E. Cor. Cor.-82'

+20-P.P.-25'

13

10'-20'

+78-S.E. Cor. Ho.-41'

+87-6" O.-31'

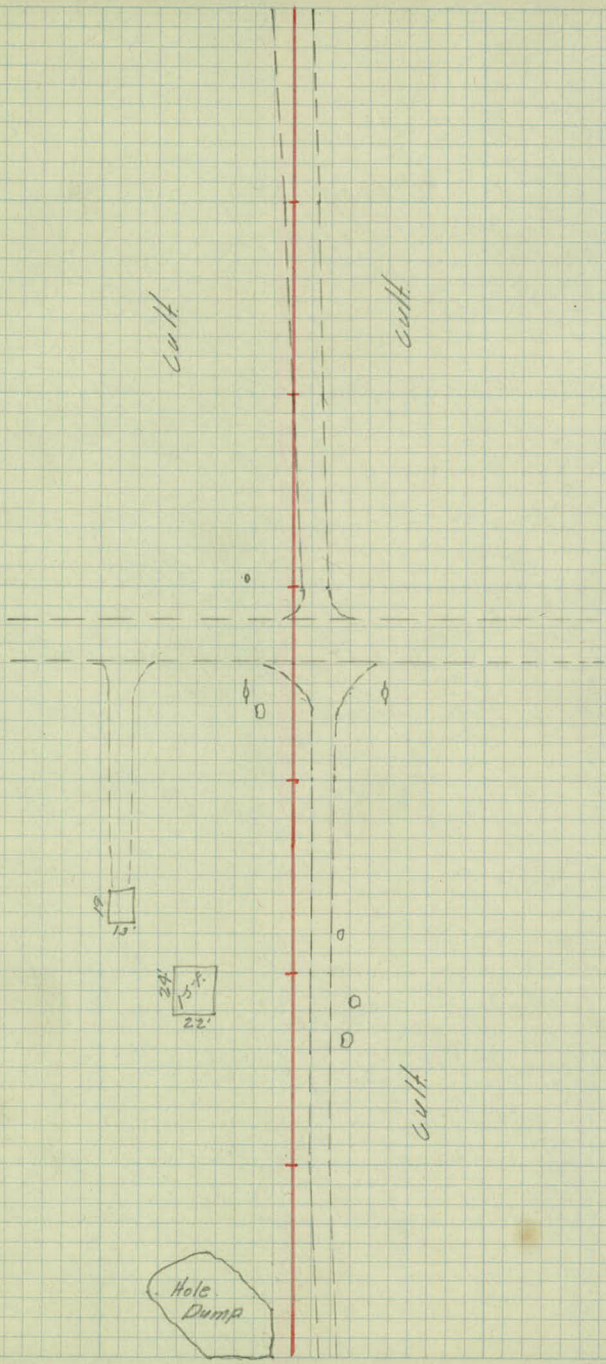
+65-12" O.-29'

12

9'-19'

11'

15'-23'



+88-S.E. Cor. Ho.-19'

+97-End 10. Ho.

+87-15'0"-42'

+45-12'0"-38'

+27-15'0"-39'

+07-15'0"-40'

24

3' 15'

23

+92-~~End~~ 18" X 42' C.M.

11' 13'

21' 21'

Ent.

+86-11'

+66-Stop Sign-22'

+52-28'

+40-63'

12' +60 +66-5'0"-33'

22

44'

41'-+12'

+60-14'

74' +70

30

+25-Stop Sign-21'

+26-End 18" X 19"-21'

+26-809 End-11'

+18-End 18" C.M.-17'

18" X 35' C.M.

12' 9'

21

20

14' 8'

19

+90-809 Bl. Top-14'

809 Bl. Top-10'

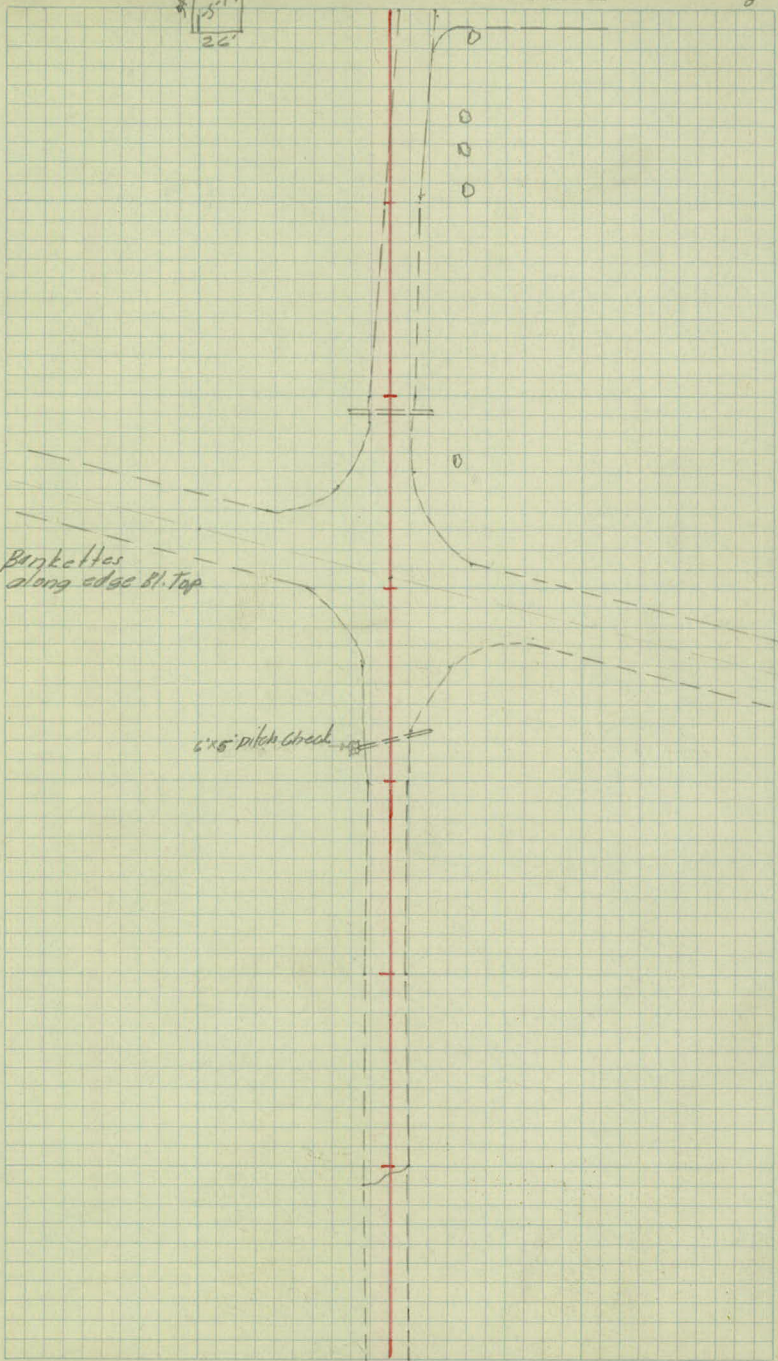
18

12' 10'

15.8.
26'

Berkeley
along edge Bl. Top

5' x 6' ditch Creek



29

12' 12'

+34-TP-28'
+09-Beg. Rod. 34'

28

+87-End Rod. 15'
+83-15" O. 17' RP-28'
+79-31" P-15'

+30-14'

15-128'
35'

+85-End Rod. 45'

7-2465
+55-End.

+34-10" O-38'
+24-15" O-38'
+02-15" Q-45'

27

10-26'
+96-12" O-35'

+77-12" O-41'

+68-End
+53-SE. Cor. Ho-79'

+25-End Hacks +26'

26

+05-PR-29'

6'-25'
+91-Cor. Cor. 34' $\frac{12 \times 18 \text{ cm}}{28'}$

~~+45-TP-28'~~

+73-12" O-42'
+62-12" O-36'

+40-Cor. 45'

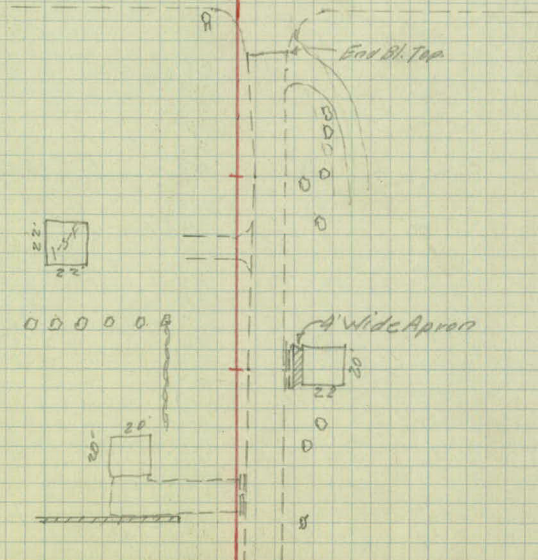
+22-2.3 Wide Conc. Walk-30'

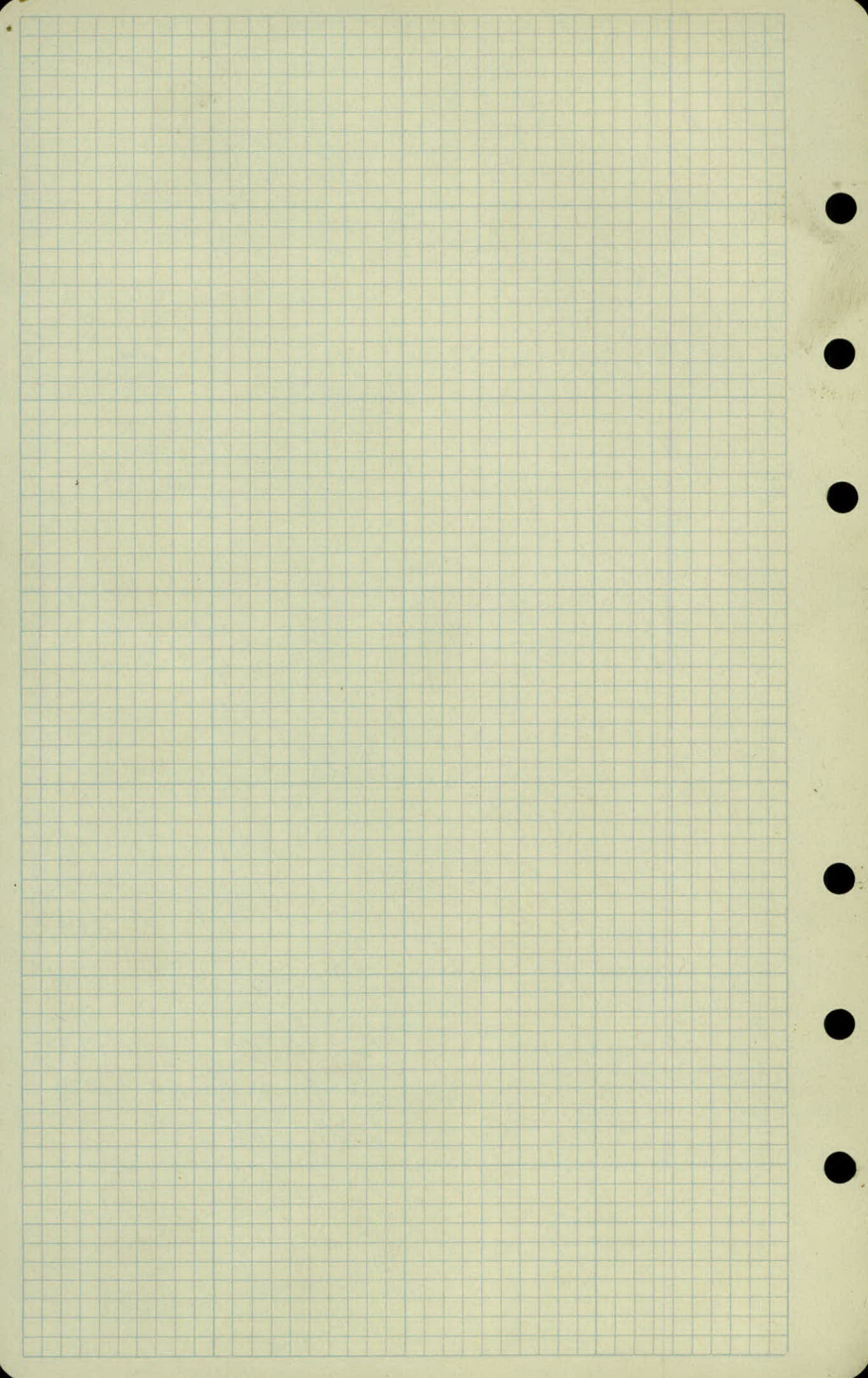
+33-End. 12" X 18" CWA 3'
+20-RP-33'

25

4-22'

Grade Road and Clean ditch on R.H. side to sta 29+50
 Place Culv. to drain N.E. Cor.





Xsections

Sta	+	-	Elev
B.M.	863	886.27.	(877.64)

0	- 03.81	Profile of McCarrens Blvd.	74.5
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0	+00		74.5
---	-----	--	------

	+12		74.5
--	-----	--	------

	+15		72.6
--	-----	--	------

	+18		75.0
--	-----	--	------

	+37		76.8
--	-----	--	------

	+61		77.0
--	-----	--	------

1			76.0
---	--	--	------

	+42		77.0
--	-----	--	------

	+65		78.0
--	-----	--	------

T.P.	13.53	899.14	266	885.61.
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2				85.4
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Lt.

L

Bt.

Spike in 20" O. 4' Lt. sta 0+28

$\frac{207}{100} \frac{16.7}{50} \frac{11.8}{50} \frac{96}{25} \frac{75}{50} \frac{38}{100}$

11.8

$\frac{143}{50} \frac{14.2}{21} \frac{11.8}{21} \frac{98}{21} \frac{88}{37} \frac{83}{50}$

$\frac{170}{50} \frac{15.0}{25} \frac{13.7}{50}$ $\frac{(FL.)}{872.44} \frac{(FL.)}{876.34}$
 $\frac{13.7}{50} \frac{13.7}{1} \frac{10.22}{37} \frac{9.7}{50}$

$\frac{162}{50} \frac{153}{31} \frac{129}{17} \frac{113}{22} \frac{96}{35} \frac{93}{40} \frac{6.0}{50} \frac{51}{50}$

$\frac{134}{50} \frac{11.8}{24} \frac{102}{7} \frac{10.0}{17} \frac{94}{27} \frac{90}{32} \frac{91}{37} \frac{54}{37} \frac{46}{50}$

$\frac{11.7}{50} \frac{10.8}{19} \frac{93}{10} \frac{82}{31} \frac{80}{36} \frac{54}{36} \frac{45}{50}$

$\frac{103}{76} \frac{146}{60} \frac{145}{50} \frac{122}{31} \frac{112}{17} \frac{103}{4} \frac{95}{10} \frac{59}{13} \frac{59}{14} \frac{20}{20} \frac{43}{26} \frac{67}{26} \frac{60}{28} \frac{57}{35} \frac{51}{50}$

$\frac{87}{100} \frac{106}{86} \frac{142}{77} \frac{136}{50} \frac{124}{32} \frac{109}{13} \frac{93}{4} \frac{85}{11} \frac{36}{14} \frac{36}{15} \frac{43}{21} \frac{36}{27} \frac{40}{28} \frac{28}{31} \frac{22}{37} \frac{49}{37} \frac{40}{50}$

$\frac{86}{100} \frac{125}{89} \frac{12.2}{50} \frac{107}{28} \frac{90}{9} \frac{83}{7} \frac{82}{12} \frac{08}{14} \frac{08}{15} \frac{22}{15} \frac{15}{20} \frac{22}{27} \frac{13}{28} \frac{03}{32} \frac{30}{37} \frac{2.8}{50}$

$\frac{16.6}{50} \frac{15.2}{20} \frac{135}{7} \frac{124}{10} \frac{105}{13} \frac{105}{17} \frac{12.2}{20} \frac{11.8}{26} \frac{12.5}{26} \frac{11.3}{33} \frac{10.1}{30} \frac{9.2}{50}$

Sta	+	π	-	Elev
		899.14		
2	+30			93.1
	+50			97.9
T.P.	11.46	909.92	0.68	898.46
	+75			02.0
3				04.8
	+15			05.7
	+50			06.7
4				05.8
	+18			05.5
B.M.		2.98		906.94
	+60			02.7
T.P.	8.98	911.96	6.94	902.98
5				99.4
	+35			98.9

lt

c

pt

$$\frac{76}{50} \quad \frac{67}{25}$$

$$\frac{40}{10} \quad \frac{65}{13} \quad \frac{94}{26} \quad \frac{93}{26} \quad \frac{85}{26} \quad \frac{83}{29} \quad \frac{25}{42} \quad \frac{32}{50}$$

$$\frac{32}{50} \quad \frac{21}{21} \quad \frac{12}{12}$$

$$\frac{13}{7} \quad \frac{75}{12} \quad \frac{75}{27} \quad \frac{+13}{39} \quad \frac{+03}{50}$$

Top stump 406 2160

$$\frac{127}{100} \quad \frac{107}{75} \quad \frac{91}{50} \quad \frac{91}{23} \quad \frac{79}{5} \quad \frac{80}{13} \quad \frac{164}{28} \quad \frac{163}{40} \quad \frac{50}{45} \quad \frac{65}{70} \quad \frac{64}{100} \quad \frac{47}{100}$$

$$\frac{118}{100} \quad \frac{71}{64} \quad \frac{71}{50} \quad \frac{63}{29} \quad \frac{51}{12}$$

$$\frac{50}{3} \quad \frac{125}{12} \quad \frac{142}{28} \quad \frac{20}{41} \quad \frac{34}{48} \quad \frac{24}{76} \quad \frac{17}{100}$$

$$\frac{118}{100} \quad \frac{102}{84} \quad \frac{75}{50} \quad \frac{50}{21}$$

$$\frac{42}{3} \quad \frac{42}{12} \quad \frac{134}{28} \quad \frac{129}{41} \quad \frac{02}{47} \quad \frac{16}{62} \quad \frac{16}{80} \quad \frac{00}{100}$$

$$\frac{146}{100} \quad \frac{128}{77} \quad \frac{110}{50} \quad \frac{93}{35} \quad \frac{63}{18} \quad \frac{38}{5} \quad \frac{32}{12}$$

$$\frac{42}{4} \quad \frac{105}{11} \quad \frac{104}{23} \quad \frac{102}{37} \quad \frac{125}{44} \quad \frac{114}{48} \quad \frac{140}{78} \quad \frac{145}{100}$$

$$\frac{116}{50} \quad \frac{94}{31} \quad \frac{66}{12} \quad \frac{43}{3}$$

$$\frac{41}{5} \quad \frac{38}{9} \quad \frac{78}{23} \quad \frac{79}{37} \quad \frac{417}{44} \quad \frac{190}{48} \quad \frac{133}{98} \quad \frac{167}{80} \quad \frac{163}{100}$$

$$\frac{78}{50} \quad \frac{87}{32} \quad \frac{74}{14} \quad \frac{47}{4} \quad \frac{44}{12}$$

$$\frac{42}{5} \quad \frac{69}{9} \quad \frac{67}{27} \quad \frac{113}{40} \quad \frac{129}{43} \quad \frac{133}{48} \quad \frac{137}{55} \quad \frac{165}{76} \quad \frac{190}{100}$$

R.R. spike in stump & stick + 18.05

$$\frac{133}{50} \quad \frac{108}{30} \quad \frac{89}{12}$$

$$\frac{12}{3} \quad \frac{67}{27} \quad \frac{65}{35} \quad \frac{25}{38} \quad \frac{16}{40} \quad \frac{02}{47} \quad \frac{07}{75} \quad \frac{+30}{100} \quad \frac{164}{100}$$

$$\frac{176}{50} \quad \frac{154}{30} \quad \frac{139}{13} \quad \frac{124}{4} \quad \frac{126}{3} \quad \frac{129}{9} \quad \frac{103}{25} \quad \frac{94}{31} \quad \frac{98}{39} \quad \frac{61}{49} \quad \frac{66}{49} \quad \frac{60}{50}$$

$$\frac{170}{50} \quad \frac{162}{32} \quad \frac{148}{12}$$

$$\frac{131}{2} \quad \frac{132}{10} \quad \frac{110}{30} \quad \frac{110}{35} \quad \frac{100}{38} \quad \frac{84}{38} \quad \frac{93}{50}$$

Sta.	+	π ✓	-	Elev.
		911.96		
5	+75			98.3
6				98.9
	+40			00.8
	+70			03.2
	+90			04.9
7				04.8
	+35			05.2
T.P.	12.97	920.52 ✓	4.41	907.55 ✓
	+65			06.2
8				09.0
	+25			10.8
	+55			11.3

Lt

L

Rt

$$\begin{array}{r} 175 \\ 50 \end{array} \quad \begin{array}{r} 167 \\ 25 \end{array} \quad \begin{array}{r} 150 \\ 7 \end{array} \quad \begin{array}{r} 137 \\ 4 \end{array} \quad \begin{array}{r} 137 \\ 4 \end{array} \quad \begin{array}{r} 111 \\ 9 \end{array} \quad \begin{array}{r} 107 \\ 22 \end{array} \quad \begin{array}{r} 109 \\ 36 \end{array} \quad \begin{array}{r} 105 \\ 38 \end{array} \quad \begin{array}{r} 101 \\ 50 \end{array}$$

$$\begin{array}{r} 150 \\ 50 \end{array} \quad \begin{array}{r} 132 \\ 26 \end{array}$$

$$\begin{array}{r} 131 \\ 8 \end{array} \quad \begin{array}{r} 117 \\ 10 \end{array} \quad \begin{array}{r} 106 \\ 21 \end{array} \quad \begin{array}{r} 104 \\ 32 \end{array} \quad \begin{array}{r} 106 \\ 50 \end{array}$$

$$\begin{array}{r} 146 \\ 50 \end{array} \quad \begin{array}{r} 138 \\ 34 \end{array} \quad \begin{array}{r} 125 \\ 17 \end{array} \quad \begin{array}{r} 112 \\ 5 \end{array} \quad \begin{array}{r} 107 \\ 5 \end{array} \quad \begin{array}{r} 95 \\ 10 \end{array} \quad \begin{array}{r} 93 \\ 21 \end{array} \quad \begin{array}{r} 94 \\ 33 \end{array} \quad \begin{array}{r} 85 \\ 35 \end{array} \quad \begin{array}{r} 95 \\ 40 \end{array} \quad \begin{array}{r} 94 \\ 50 \end{array}$$

$$\begin{array}{r} 130 \\ 50 \end{array} \quad \begin{array}{r} 115 \\ 32 \end{array} \quad \begin{array}{r} 97 \\ 15 \end{array} \quad \begin{array}{r} 88 \\ 9 \end{array} \quad \begin{array}{r} 82 \\ 16 \end{array} \quad \begin{array}{r} 85 \\ 25 \end{array} \quad \begin{array}{r} 84 \\ 33 \end{array} \quad \begin{array}{r} 61 \\ 37 \end{array} \quad \begin{array}{r} 49 \\ 44 \end{array} \quad \begin{array}{r} 64 \\ 50 \end{array} \quad \begin{array}{r} 61 \\ 50 \end{array}$$

$$\begin{array}{r} 120 \\ 50 \end{array} \quad \begin{array}{r} 103 \\ 30 \end{array} \quad \begin{array}{r} 94 \\ 21 \end{array} \quad \begin{array}{r} 85 \\ 16 \end{array} \quad \begin{array}{r} 71 \\ 8 \end{array} \quad \begin{array}{r} 68 \\ 8 \end{array} \quad \begin{array}{r} 77 \\ 10 \end{array} \quad \begin{array}{r} 76 \\ 23 \end{array} \quad \begin{array}{r} 70 \\ 24 \end{array} \quad \begin{array}{r} 69 \\ 27 \end{array} \quad \begin{array}{r} 43 \\ 33 \end{array} \quad \begin{array}{r} 29 \\ 36 \end{array} \quad \begin{array}{r} 42 \\ 43 \end{array} \quad \begin{array}{r} 42 \\ 50 \end{array}$$

$$\begin{array}{r} 117 \\ 50 \end{array} \quad \begin{array}{r} 105 \\ 33 \end{array} \quad \begin{array}{r} 92 \\ 21 \end{array} \quad \begin{array}{r} 83 \\ 14 \end{array} \quad \begin{array}{r} 72 \\ 9 \end{array} \quad \begin{array}{r} 66 \\ 11 \end{array} \quad \begin{array}{r} 72 \\ 23 \end{array} \quad \begin{array}{r} 68 \\ 24 \end{array} \quad \begin{array}{r} 66 \\ 28 \end{array} \quad \begin{array}{r} 38 \\ 33 \end{array} \quad \begin{array}{r} 25 \\ 35 \end{array} \quad \begin{array}{r} 24 \\ 39 \end{array} \quad \begin{array}{r} 34 \\ 43 \end{array} \quad \begin{array}{r} 35 \\ 50 \end{array}$$

$$\begin{array}{r} 115 \\ 50 \end{array} \quad \begin{array}{r} 94 \\ 27 \end{array} \quad \begin{array}{r} 80 \\ 14 \end{array} \quad \begin{array}{r} 68 \\ 5 \end{array} \quad \begin{array}{r} 58 \\ 10 \end{array} \quad \begin{array}{r} 63 \\ 11 \end{array} \quad \begin{array}{r} 58 \\ 23 \end{array} \quad \begin{array}{r} 52 \\ 24 \end{array} \quad \begin{array}{r} 50 \\ 28 \end{array} \quad \begin{array}{r} 30 \\ 32 \end{array} \quad \begin{array}{r} 23 \\ 35 \end{array} \quad \begin{array}{r} 28 \\ 37 \end{array} \quad \begin{array}{r} 18 \\ 43 \end{array} \quad \begin{array}{r} 16 \\ 50 \end{array}$$

$$\begin{array}{r} 114 \\ 50 \end{array} \quad \begin{array}{r} 125 \\ 30 \end{array} \quad \begin{array}{r} 154 \\ 12 \end{array} \quad \begin{array}{r} 143 \\ 6 \end{array} \quad \begin{array}{r} 134 \\ 11 \end{array} \quad \begin{array}{r} 130 \\ 28 \end{array} \quad \begin{array}{r} 124 \\ 33 \end{array} \quad \begin{array}{r} 97 \\ 35 \end{array} \quad \begin{array}{r} 90 \\ 38 \end{array} \quad \begin{array}{r} 76 \\ 43 \end{array} \quad \begin{array}{r} 85 \\ 50 \end{array} \quad \begin{array}{r} 82 \\ 50 \end{array}$$

$$\begin{array}{r} 158 \\ 50 \end{array} \quad \begin{array}{r} 139 \\ 28 \end{array} \quad \begin{array}{r} 124 \\ 14 \end{array} \quad \begin{array}{r} 115 \\ 11 \end{array} \quad \begin{array}{r} 110 \\ 28 \end{array} \quad \begin{array}{r} 112 \\ 38 \end{array} \quad \begin{array}{r} 53 \\ 43 \end{array} \quad \begin{array}{r} 62 \\ 50 \end{array} \quad \begin{array}{r} 62 \\ 50 \end{array}$$

$$\begin{array}{r} 138 \\ 50 \end{array} \quad \begin{array}{r} 116 \\ 24 \end{array} \quad \begin{array}{r} 103 \\ 13 \end{array} \quad \begin{array}{r} 97 \\ 4 \end{array}$$

$$\begin{array}{r} 100 \\ 11 \end{array} \quad \begin{array}{r} 103 \\ 25 \end{array} \quad \begin{array}{r} 98 \\ 30 \end{array} \quad \begin{array}{r} 93 \\ 39 \end{array} \quad \begin{array}{r} 43 \\ 44 \end{array} \quad \begin{array}{r} 50 \\ 50 \end{array} \quad \begin{array}{r} 51 \\ 50 \end{array}$$

$$\begin{array}{r} 120 \\ 50 \end{array} \quad \begin{array}{r} 102 \\ 27 \end{array} \quad \begin{array}{r} 93 \\ 15 \end{array} \quad \begin{array}{r} 90 \\ 4 \end{array} \quad \begin{array}{r} 92 \\ 5 \end{array} \quad \begin{array}{r} 97 \\ 16 \end{array} \quad \begin{array}{r} 93 \\ 30 \end{array} \quad \begin{array}{r} 94 \\ 37 \end{array} \quad \begin{array}{r} 63 \\ 39 \end{array} \quad \begin{array}{r} 53 \\ 45 \end{array} \quad \begin{array}{r} 60 \\ 50 \end{array} \quad \begin{array}{r} 61 \\ 50 \end{array}$$

Sta	+	π ✓	-	Elev
		920.52		
8	+78			10.5
9				08.4
	+27			07.6
	+67			11.0
10				13.5
	+38			15.3
	+64			16.7
T.P.	10.44	929.28 ✓	1.68	918.84 ✓
	+86			19.4
11				20.9
	+13			22.2
	+40			24.7
T.P.	13.55	942.61 ✓	0.22	929.06 ✓

L+

R

R+

$$\frac{118}{50} \quad \frac{111}{21} \quad \frac{120}{11} \quad \frac{94}{13} \quad \frac{85}{26} \quad \frac{85}{30} \quad \frac{87}{30} \quad \frac{93}{30} \quad \frac{79}{38} \quad \frac{84}{42} \quad \frac{85}{50}$$

$$\frac{133}{50} \quad \frac{124}{20}$$

$$\frac{121}{8} \quad \frac{115}{14} \quad \frac{80}{30} \quad \frac{29}{23} \quad \frac{95}{43} \quad \frac{93}{50}$$

$$\frac{153}{50} \quad \frac{147}{29} \quad \frac{136}{11} \quad \frac{139}{11}$$

$$\frac{119}{8} \quad \frac{72}{14} \quad \frac{70}{30} \quad \frac{94}{34} \quad \frac{89}{37} \quad \frac{87}{50}$$

$$\frac{145}{50} \quad \frac{127}{33} \quad \frac{110}{14}$$

$$\frac{95}{11} \quad \frac{82}{14} \quad \frac{57}{31} \quad \frac{51}{35} \quad \frac{72}{38} \quad \frac{63}{44} \quad \frac{74}{50}$$

$$\frac{132}{50} \quad \frac{112}{32} \quad \frac{87}{15} \quad \frac{70}{15}$$

$$\frac{55}{12} \quad \frac{41}{14} \quad \frac{37}{30} \quad \frac{48}{34} \quad \frac{47}{36} \quad \frac{36}{39} \quad \frac{49}{43} \quad \frac{48}{50}$$

$$\frac{121}{50} \quad \frac{101}{34} \quad \frac{78}{14}$$

$$\frac{52}{9} \quad \frac{40}{14} \quad \frac{19}{30} \quad \frac{14}{33} \quad \frac{24}{35} \quad \frac{24}{37} \quad \frac{13}{37} \quad \frac{22}{50}$$

$$\frac{96}{50} \quad \frac{79}{34} \quad \frac{58}{16} \quad \frac{38}{16}$$

$$\frac{27}{7}$$

$$\frac{20}{16} \quad \frac{00}{28} \quad \frac{05}{35} \quad \frac{104}{37} \quad \frac{03}{50}$$

$$\frac{146}{65} \quad \frac{156}{55} \quad \frac{206}{47} \quad \frac{182}{39} \quad \frac{130}{31} \quad \frac{115}{16} \quad \frac{89}{9} \quad \frac{90}{15} \quad \frac{76}{25} \quad \frac{74}{34} \quad \frac{77}{38} \quad \frac{61}{43} \quad \frac{70}{50} \quad \frac{68}{50}$$

$$\frac{148}{70} \quad \frac{144}{61} \quad \frac{232}{46} \quad \frac{223}{30} \quad \frac{90}{10}$$

$$\frac{84}{9} \quad \frac{77}{15} \quad \frac{67}{25} \quad \frac{65}{35} \quad \frac{67}{38} \quad \frac{54}{42} \quad \frac{57}{50} \quad \frac{60}{50}$$

$$\frac{160}{90} \quad \frac{148}{75} \quad \frac{240}{55} \quad \frac{142}{19} \quad \frac{73}{6} \quad \frac{71}{11}$$

$$\frac{65}{9}$$

$$\frac{58}{73} \quad \frac{58}{24} \quad \frac{58}{34} \quad \frac{46}{37} \quad \frac{52}{50}$$

$$\frac{102}{73} \quad \frac{91}{83} \quad \frac{165}{66} \quad \frac{138}{43} \quad \frac{52}{25} \quad \frac{56}{16} \quad \frac{46}{10} \quad \frac{40}{25} \quad \frac{39}{34} \quad \frac{25}{37} \quad \frac{25}{50}$$

Sta	+	T	-	Elev
		942.61		
11	+55			26.0
	+85			29.6
12				32.2
	+44			36.9
	+59			38.0
T.P.	10.13	942.81 ✓	2.93	939.68 ✓
13				40.5
	+27			40.9
	+63			42.6
	+80			44.0
14				44.9
	+36			47.5

Lt

F

Pt

$$\frac{188}{80} \quad \frac{17.3}{50} \quad \frac{17.2}{20} \quad \frac{16.6}{7} \quad \frac{16.6}{10} \quad \frac{16.3}{31} \quad \frac{16.0}{37} \quad \frac{16.9}{45} \quad \frac{15.7}{50}$$

$$\frac{14.3}{50} \quad \frac{13.7}{32} \quad \frac{13.9}{25}$$

$$\frac{13.0}{3} \quad \frac{13.0}{5} \quad \frac{13.5}{7} \quad \frac{13.2}{30} \quad \frac{13.5}{37} \quad \frac{10.0}{43} \quad \frac{11.6}{43} \quad \frac{11.4}{50}$$

$$\frac{11.8}{50} \quad \frac{10.4}{22} \quad \frac{10.4}{5} \quad \frac{10.3}{6} \quad \frac{12.2}{30} \quad \frac{11.7}{36} \quad \frac{7.8}{43} \quad \frac{9.0}{43} \quad \frac{8.7}{50}$$

$$\frac{9.7}{50} \quad \frac{8.7}{28} \quad \frac{6.7}{4}$$

$$\frac{5.7}{4} \quad \frac{5.7}{7} \quad \frac{8.0}{25} \quad \frac{8.0}{26} \quad \frac{7.2}{29} \quad \frac{6.8}{37} \quad \frac{0.9}{40} \quad \frac{1.8}{40} \quad \frac{1.4}{50}$$

$$\frac{7.0}{50} \quad \frac{7.5}{21} \quad \frac{7.2}{3} \quad \frac{4.6}{4} \quad \frac{6.8}{6} \quad \frac{6.6}{24} \quad \frac{6.0}{24} \quad \frac{5.8}{28} \quad \frac{10.5}{35} \quad \frac{0.0}{41} \quad \frac{10.3}{50}$$

937.31
12.5
Elev 1st Floor Ho.

$$\frac{13.4}{40} \quad \frac{13.4}{22} \quad \frac{12.7}{20} \quad \frac{12.0}{2} \quad \frac{9.3}{1} \quad \frac{9.3}{6} \quad \frac{9.2}{7} \quad \frac{10.6}{25} \quad \frac{10.0}{26} \quad \frac{9.6}{30} \quad \frac{9.9}{34} \quad \frac{4.9}{39} \quad \frac{5.3}{39} \quad \frac{4.8}{50}$$

$$\frac{13.0}{50} \quad \frac{13.0}{29} \quad \frac{11.9}{28} \quad \frac{11.6}{12} \quad \frac{9.5}{7} \quad \frac{8.9}{7} \quad \frac{7.9}{8} \quad \frac{9.1}{10} \quad \frac{8.3}{29} \quad \frac{8.0}{33} \quad \frac{3.9}{39} \quad \frac{4.7}{39} \quad \frac{4.1}{50}$$

$$\frac{10.5}{50} \quad \frac{10.1}{41} \quad \frac{10.3}{36} \quad \frac{10.2}{11} \quad \frac{7.7}{7} \quad \frac{7.2}{7}$$

$$\frac{6.0}{11} \quad \frac{5.9}{30} \quad \frac{3.0}{33} \quad \frac{3.8}{39} \quad \frac{3.4}{50}$$

$$\frac{9.6}{50} \quad \frac{8.2}{34} \quad \frac{6.8}{13}$$

$$\frac{5.8}{7} \quad \frac{5.4}{31} \quad \frac{5.3}{35} \quad \frac{2.5}{35} \quad \frac{2.8}{50}$$

$$\frac{8.2}{50} \quad \frac{7.0}{23} \quad \frac{4.9}{49}$$

$$\frac{5.1}{8} \quad \frac{4.8}{28} \quad \frac{1.6}{33} \quad \frac{2.3}{39} \quad \frac{2.2}{50}$$

$$\frac{5.2}{50} \quad \frac{3.6}{28}$$

$$\frac{2.3}{5} \quad \frac{6.2}{25} \quad \frac{6.1}{33} \quad \frac{1.3}{33} \quad \frac{1.1}{50}$$

Sta	+	π	-	E/cv
		949.61 ✓		
14	+47			42.6
	+61			42.7
	+72.89			43.0 ✓
B.M.			6.96	942.85
	+83			43.1
	+97			43.1
T.P.	10.70	957.18 ✓	2.33	946.48 ✓
15	+17			45.3
	+50			46.3
	+77			47.0
16				48.3
	+50			50.2
17				52.7

Lt.

K

Rt.

$$\frac{95}{50} \frac{84}{19} \frac{72}{1}$$

$$\frac{66}{14} \frac{71}{28}$$

$$\frac{85}{50}$$

$$\frac{85}{50} \frac{78}{25} \frac{71}{25} \frac{70}{25} \frac{77}{50}$$

$$\frac{78}{100} \frac{81}{50} \frac{74}{25} \frac{68}{25} \frac{69}{25} \frac{74}{50} \frac{82}{100}$$

Top Mont Co. Rd. 18 + Western Ave.

$$\frac{84}{50} \frac{74}{25} \frac{67}{1} \frac{66}{14} \frac{69}{35} \frac{72}{50}$$

$$\frac{86}{50} \frac{81}{25} \frac{67}{13} \frac{60}{28} \frac{66}{28} \frac{71}{50}$$

$$\frac{87}{50} \frac{75}{29} \frac{60}{11} \frac{104}{5} \frac{119}{15} \frac{122}{22} \frac{130}{25} \frac{121}{25} \frac{117}{50}$$

$$\frac{94.55}{50} \frac{54}{18} \frac{100}{13} \frac{102}{7} \frac{102}{2} \frac{109}{9} \frac{108}{16} \frac{112}{19} \frac{116}{21} \frac{113}{21} \frac{106}{50}$$

$$\frac{90}{50} \frac{64}{20} \frac{60}{13} \frac{83}{9} \frac{91}{3} \frac{102}{2} \frac{102}{1} \frac{96}{13} \frac{97}{17} \frac{101}{37} \frac{94}{37} \frac{98}{50}$$

$$\frac{87}{50} \frac{76}{34} \frac{69}{18} \frac{82}{12} \frac{85}{4} \frac{93}{3} \frac{93}{1} \frac{89}{8} \frac{88}{18} \frac{90}{39} \frac{90}{39} \frac{88}{50}$$

$$\frac{62}{50} \frac{59}{37} \frac{60}{17} \frac{68}{7} \frac{77}{7} \frac{77}{5} \frac{72}{4} \frac{70}{1} \frac{68}{8} \frac{74}{17} \frac{66}{32} \frac{57}{50}$$

$$\frac{29}{50} \frac{29}{20} \frac{40}{13} \frac{48}{11} \frac{50}{7}$$

$$\frac{45}{4} \frac{44}{16} \frac{47}{22} \frac{53}{32} \frac{41}{43} \frac{34}{43} \frac{35}{50}$$

Sta.	+	π	-	Elev
		957.18 ✓		
17	+50			55.5 ✓
T.P.	13.70	970.22	0.66	956.52
18				57.9
	+50			59.7
	+69			60.2
19				60.8
	+23			61.2
	+50			61.4
20				61.1
	+38			60.4
	+77			59.4
21				58.8 ✓
T.P.	✓ 4.73	963.13 ✓	11.82 ✓	958.40 ✓

Lt

K

Rt

$$\frac{04}{50} \frac{05}{35} \frac{00}{25} \frac{32}{17} \frac{32}{14} \frac{23}{11} \frac{17}{11}$$

$$\frac{22}{12} \frac{30}{19} \frac{25}{24} \frac{00}{35} \frac{102}{50}$$

$$\frac{98}{50} \frac{91}{30} \frac{140}{21} \frac{140}{16} \frac{130}{14} \frac{133}{10} \frac{126}{13} \frac{142}{18} \frac{142}{31} \frac{72}{35} \frac{76}{35} \frac{78}{50}$$

$$\frac{69}{50} \frac{59}{32} \frac{116}{20} \frac{117}{16} \frac{112}{15}$$

$$\frac{105}{10} \frac{110}{13} \frac{120}{17} \frac{120}{32} \frac{25}{37} \frac{19}{37} \frac{26}{50}$$

$$\frac{71}{50} \frac{62}{32} \frac{108}{21} \frac{113}{19} \frac{108}{15} \frac{100}{15}$$

$$\frac{106}{12} \frac{111}{13} \frac{108}{27} \frac{17}{42} \frac{21}{50}$$

$$\frac{96}{50} \frac{93}{39} \frac{80}{30} \frac{109}{21} \frac{105}{17} \frac{100}{15}$$

$$\frac{94}{12} \frac{98}{15} \frac{104}{20} \frac{93}{29} \frac{38}{30} \frac{38}{32} \frac{27}{38} \frac{28}{38} \frac{27}{50}$$

$$\frac{108}{50} \frac{101}{35} \frac{82}{27} \frac{110}{21} \frac{103}{16} \frac{96}{14} \frac{90}{14}$$

$$\frac{93}{12} \frac{102}{16} \frac{100}{21} \frac{51}{30} \frac{51}{35} \frac{49}{50}$$

$$\frac{112}{50} \frac{102}{37} \frac{86}{29} \frac{107}{22} \frac{102}{16} \frac{96}{14}$$

$$\frac{88}{12} \frac{92}{17} \frac{102}{22} \frac{100}{29} \frac{62}{29} \frac{65}{50}$$

$$\frac{108}{50} \frac{89}{38} \frac{74}{31} \frac{105}{23} \frac{103}{17} \frac{97}{14} \frac{91}{14}$$

$$\frac{97}{12} \frac{105}{15} \frac{109}{21} \frac{56}{34} \frac{52}{40} \frac{69}{50}$$

$$\frac{100}{50} \frac{74}{33} \frac{108}{23} \frac{108}{17} \frac{102}{13}$$

$$\frac{98}{11} \frac{105}{16} \frac{115}{21} \frac{118}{30} \frac{65}{36} \frac{64}{36} \frac{77}{50}$$

$$\frac{84}{50} \frac{60}{33} \frac{114}{23} \frac{118}{18} \frac{112}{14} \frac{108}{14}$$

$$\frac{114}{11} \frac{127}{17} \frac{126}{22} \frac{66}{31} \frac{66}{38} \frac{83}{50}$$

$$\frac{79}{50} \frac{60}{34} \frac{124}{22} \frac{123}{16} \frac{114}{11}$$

$$\frac{114}{11} \frac{118}{17} \frac{131}{22} \frac{123}{31} \frac{84}{38} \frac{80}{38} \frac{97}{50}$$

Sta	+	π ✓	-	Elev
		963.19		
21	+18			58.5
	+26			58.3
	+42			58.1
	+75			57.7
22				57.6
	+0562 Along R.S.T.N. # 36			57.6
	+12			57.6
	+40			57.6
	+92			58.2
L.P.	1376	972.15 ✓	4.74	958.39 ✓
23				58.4
	+25			59.0

Lt

K

Rt

955.93
(FLCULV)
+

$\frac{1.4}{50} \frac{0.9}{40} \frac{+0.5}{36} \frac{0.0}{31} \frac{7.0}{19} \frac{7.20}{17} \frac{5.1}{15} \frac{4.6}{10} \frac{5.2}{13} \frac{5.9}{20} \frac{6.6}{28} \frac{4.0}{31} \frac{2.8}{39} \frac{2.7}{50} \frac{4.0}{50}$

(FLCULV)
955.49

$\frac{1.6}{50} \frac{0.7}{40} \frac{1.2}{37} \frac{0.8}{31} \frac{5.4}{21} \frac{5.7}{16} \frac{5.2}{14} \frac{4.8}{14} \frac{5.3}{20} \frac{7.64}{22} \frac{7.5}{33} \frac{3.7}{40} \frac{3.7}{50} \frac{4.8}{50}$

$\frac{3.5}{50} \frac{3.4}{27} \frac{5.6}{20} \frac{6.0}{16} \frac{5.7}{14} \frac{5.0}{14} \frac{5.8}{16} \frac{5.3}{20} \frac{5.2}{23} \frac{7.4}{33} \frac{7.3}{50}$

$\frac{4.8}{50} \frac{4.8}{23} \frac{5.9}{15}$

$\frac{5.4}{25} \frac{5.7}{25} \frac{6.0}{50}$

$\frac{5.3}{50} \frac{5.3}{40} \frac{6.1}{35} \frac{5.5}{35}$

$\frac{7.1}{100} \frac{6.0}{50}$

$\frac{5.5}{50} \frac{5.5}{50} \frac{5.7}{100}$

$\frac{5.5}{35} \frac{5.8}{39} \frac{5.1}{44} \frac{5.0}{50} \frac{6.5}{50}$

$\frac{6.4}{50} \frac{5.5}{55} \frac{5.7}{15} \frac{5.0}{18} \frac{5.0}{20} \frac{10.9}{38} \frac{11.7}{50}$

(FLCULV)
955.81

955.25
(FLCULV)

$\frac{6.5}{50} \frac{6.7}{22} \frac{7.32}{21} \frac{4.6}{16} \frac{4.7}{19} \frac{5.6}{11} \frac{4.9}{13} \frac{5.2}{15} \frac{5.0}{21} \frac{7.88}{21} \frac{7.8}{31} \frac{9.0}{50}$

R. Sta. 2+00

$\frac{1.56}{50} \frac{1.54}{29} \frac{1.53}{23} \frac{1.37}{16} \frac{1.37}{13} \frac{1.46}{11} \frac{1.98}{14} \frac{1.43}{21} \frac{1.60}{21} \frac{1.70}{32} \frac{1.68}{50}$

$\frac{1.52}{50} \frac{1.47}{32} \frac{1.42}{13} \frac{1.37}{5} \frac{1.32}{13} \frac{1.36}{17} \frac{1.43}{25} \frac{1.45}{29} \frac{1.46}{33} \frac{1.36}{50} \frac{1.30}{50}$

Sta	+	π ✓	-	Elev.
		972.15		
23	+72			60.5
24				61.9
	+22			62.9
	+58			65.2
25				68.5
T.P.	10.04	980.96 ✓	1.23	970.92 ✓
	+23			70.7
			970.8	
			102	
	+50 El. 600 ft. Lf.			
	+57			74.2
26				77.3
	+28			78.6
	+64			77.9

LH

K

RH

$$\begin{array}{r} 98 \ 102 \ 130 \\ 50 \ 24 \ 15 \end{array} \quad \begin{array}{r} 11.7 \\ 6 \end{array}$$

$$\begin{array}{r} 117 \ 121 \ 126 \ 125 \ 115 \ 115 \ 107 \ 106 \\ 16 \ 19 \ 25 \ 29 \ 31 \ 33 \ 50 \end{array}$$

$$\begin{array}{r} 86 \ 90 \ 96 \ 111 \\ 50 \ 35 \ 23 \ 19 \end{array} \quad \begin{array}{r} 110 \ 104 \ 103 \\ 12 \ 7 \end{array}$$

$$\begin{array}{r} 106 \ 112 \ 107 \ 98 \\ 15 \ 20 \ 26 \ 30 \end{array} \quad \begin{array}{r} 95 \\ 50 \end{array}$$

$$\begin{array}{r} 94 \ 97 \ 101 \ 100 \ 94 \\ 50 \ 22 \ 19 \ 14 \ 8 \end{array} \quad \begin{array}{r} 93 \ 91 \ 94 \ 101 \ 96 \ 84 \ 71 \\ 7 \ 18 \ 21 \ 25 \ 29 \ 50 \end{array}$$

$$\begin{array}{r} 74 \ 70 \ 78 \ 71 \\ 50 \ 27 \ 13 \ 4 \end{array}$$

$$\begin{array}{r} 70 \ 67 \ 69 \ 78 \ 62 \ 51 \ 45 \\ 9 \ 20 \ 23 \ 29 \ 34 \ 50 \end{array}$$

$$\begin{array}{r} 36 \ 32 \ 29 \ 25 \ 37 \\ 50 \ 25 \ 11 \ 3 \end{array}$$

$$\begin{array}{r} 30 \\ 12 \end{array}$$

$$\begin{array}{r} 32 \ 1.4 \ 10 \\ 26 \ 33 \ 50 \end{array}$$

on S.W. 9169.80 979.20

$$\begin{array}{r} 112 \ 108 \ 105 \ 104 \ 94 \ 94 \ 103 \ 111 \ 105 \ 98 \ 99 \ 101 \ 78 \ 78 \\ 50 \ 30 \ 28 \ 22 \ 13 \ 4 \ 2 \ 4 \ 17 \ 25 \ 26 \ 33 \ 50 \end{array}$$

$$\left(+57 \right) \begin{array}{r} 100 \ 99 \ 70 \\ 43 \ 41 \ 39 \end{array} \quad \begin{array}{r} 61 \ 63 \\ 19 \ 3 \end{array} \quad \begin{array}{r} 68 \ 84 \ 80 \ 74 \ 76 \ 59 \\ 3 \ 6 \ 19 \ 29 \ 33 \end{array} \left(+57 \right)$$

877.66
51.60
Floor

$$\begin{array}{r} 38 \ 31 \ 28 \ 37 \\ 50 \ 30 \ 11 \ 7 \end{array} \quad \begin{array}{r} 40 \ 55 \ 48 \ 48 \ 52 \ 40 \ 3.30 \\ 2 \ 5 \ 15 \ 22 \ 29 \ 31 \ 34 \end{array}$$

$$\begin{array}{r} 37 \ 2.6 \ 22 \ 24 \ 31 \ 40 \ 33 \ 35 \ 1.2 \ 1.7 \\ 50 \ 37 \ 17 \ 4 \ 6 \ 17 \ 23 \ 34 \ 50 \end{array}$$

$$\begin{array}{r} 43 \ 41 \\ 50 \ 23 \end{array}$$

$$\begin{array}{r} 31 \ 2.3 \ 1.8 \ 2.0 \ 1.9 \ 1.9 \\ 9 \ 18 \ 34 \ 35 \ 50 \end{array}$$

Sta	+	π ✓	-	Elev
		980.96		
27				76.0 ✓
T.P.	9.96	990.78	0.14	980.82
+16				76.4
+38				78.5
+66				83.2
+78				84.1 ✓
B.M.			9.46	981.32 (981.30)
+86				84.9 ✓
B.M.			8.08	982.70
19534				85.6
28	+16			86.2 ✓
T.P.	11.80	997.65	4.93	985.85
+32				86.8
+54				87.4
29				88.9

Lt

K

Rt

$$\frac{61}{50} \quad \frac{62}{39} \quad \frac{58}{17} \quad \frac{50}{\quad} \quad \frac{47}{3} \quad \frac{11}{10} \quad \frac{05}{17} \quad \frac{05}{29} \quad \frac{39}{34} \quad \frac{38}{50}$$

$$\frac{16.8}{50} \quad \frac{158}{28} \quad \frac{151}{8} \quad \frac{144}{\quad} \quad \frac{137}{4} \quad \frac{103}{9} \quad \frac{96}{20} \quad \frac{98}{29} \quad \frac{120}{35} \quad \frac{131}{50}$$

$$\frac{156}{50} \quad \frac{147}{27}$$

$$\frac{12.3}{8} \quad \frac{9.2}{19} \quad \frac{85}{30} \quad \frac{86}{\quad} \quad \frac{93}{41} \quad \frac{8.9}{50}$$

$$\frac{129}{50} \quad \frac{107}{23} \quad \frac{76}{\quad} \quad \frac{7.2}{4} \quad \frac{7.2}{8} \quad \frac{6.5}{18} \quad \frac{66}{28} \quad \frac{70}{34} \quad \frac{30}{43} \quad \frac{30}{50}$$

$$\frac{10.9}{50} \quad \frac{91}{31} \quad \frac{8.0}{21} \quad \frac{65}{8} \quad \frac{6.7}{7} \quad \frac{6.2}{19} \quad \frac{58}{29} \quad \frac{6.0}{32} \quad \frac{65}{39} \quad \frac{43}{44} \quad \frac{42}{47} \quad \frac{1.8}{47} \quad \frac{1.6}{50}$$

R.R. Spike Top 30" stamp Minnesota Ave.

$$\frac{18}{50} \quad \frac{6.5}{25} \quad \frac{59}{\quad} \quad \frac{49}{26} \quad \frac{44}{50}$$

Use this B.M. $\rightarrow$

Top S.W. Cor Bottom Stop at Ho. S.E. Cor Minnesota Ave & Western Ave.

$$\frac{7.4}{50} \quad \frac{52}{25} \quad \frac{44}{\quad} \quad \frac{36}{50}$$

$$\frac{84}{50} \quad \frac{58}{34} \quad \frac{55}{23} \quad \frac{6.0}{20} \quad \frac{46}{20} \quad \frac{47}{26} \quad \frac{40}{26} \quad \frac{36}{50}$$

$$\frac{149}{50} \quad \frac{132}{38} \quad \frac{113}{24} \quad \frac{120}{20} \quad \frac{117}{17} \quad \frac{11.4}{15} \quad \frac{10.9}{16} \quad \frac{11.3}{18} \quad \frac{11.8}{30} \quad \frac{9.2}{36} \quad \frac{6.5}{41} \quad \frac{0.8}{47} \quad \frac{10.2}{50}$$

$$\frac{116}{50} \quad \frac{140}{38} \quad \frac{116}{28} \quad \frac{107}{24} \quad \frac{115}{20} \quad \frac{113}{16} \quad \frac{107}{15} \quad \frac{10.3}{\quad}$$

$$\frac{108}{15} \quad \frac{101}{23} \quad \frac{1.9}{35} \quad \frac{0.9}{50}$$

$$\frac{166}{50} \quad \frac{142}{34} \quad \frac{131}{31} \quad \frac{128}{28} \quad \frac{112}{26} \quad \frac{103}{20} \quad \frac{100}{17} \quad \frac{93}{14} \quad \frac{88}{14} \quad \frac{91}{16} \quad \frac{96}{22} \quad \frac{91}{32} \quad \frac{42}{32} \quad \frac{38}{41} \quad \frac{32}{50}$$

Sta	+	π	-	Elev
		997.65		

29 +50

90.5

30

92.1

+50

93.7

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21.

$\frac{140}{50}$	$\frac{112}{32}$	$\frac{110}{27}$	$\frac{95}{21}$	$\frac{91}{17}$	$\frac{78}{14}$	$\frac{72}{14}$	$\frac{75}{17}$	$\frac{86}{23}$	$\frac{79}{28}$	$\frac{50}{33}$	$\frac{45}{50}$	$\frac{37}{50}$
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