

Book 122

Dr. 16

122

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan

Survey

Arcade St.

"A2"

to Keller Pkwy.

Keller Parkway

From Arcade St.

To Co. Rd. "C"

Road Acc't. No. P.W.S. #587

Date Filed. 11-7-45

File

Lib. Revisio

194

PLAN SURVEY ARCADE ST.

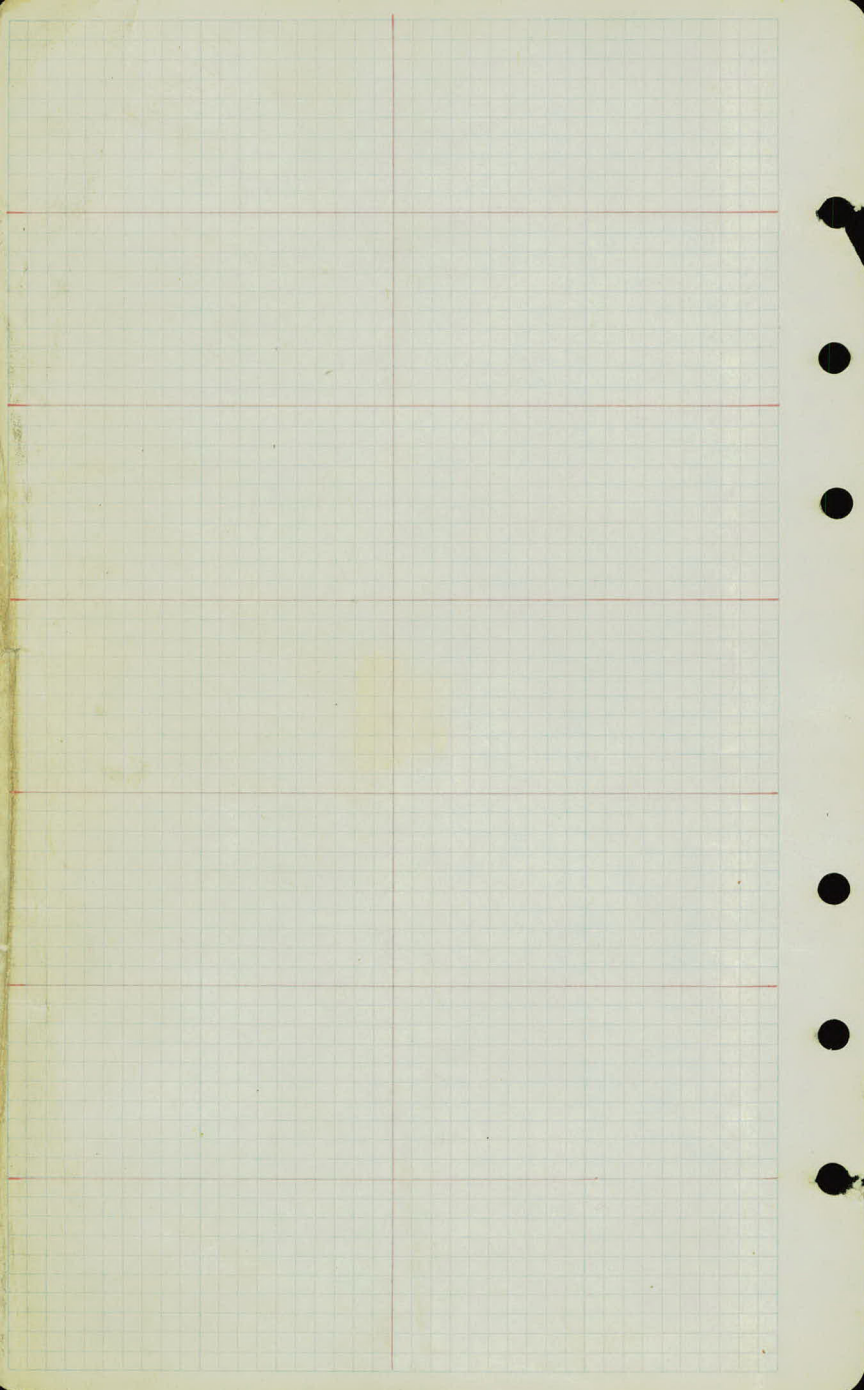
Co. Rd A2 to Co. Rd C



INDEX

Align - - 1-6
Topog - - 7-21
Bench
Levels - 22-24
X Sections - 25-63

Drawn up
Post War Plans
1945



Arcade St.

Alignment

Sta.	Point	Δ Lt.	Δ Rt.
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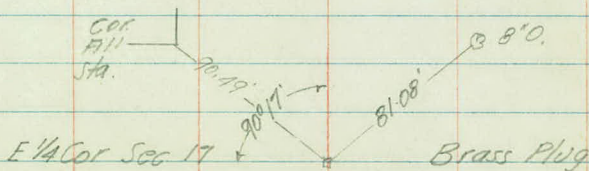
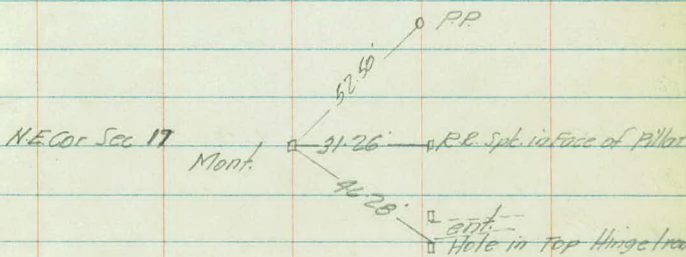
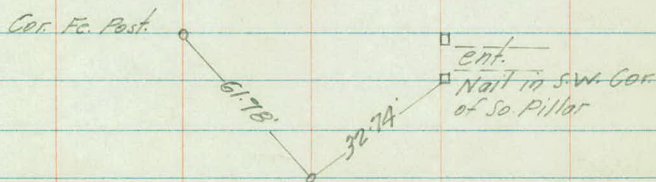
41 + 18.12	P.O.T. =	E S.T.H 36	
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32 + 00	P.O.T.		
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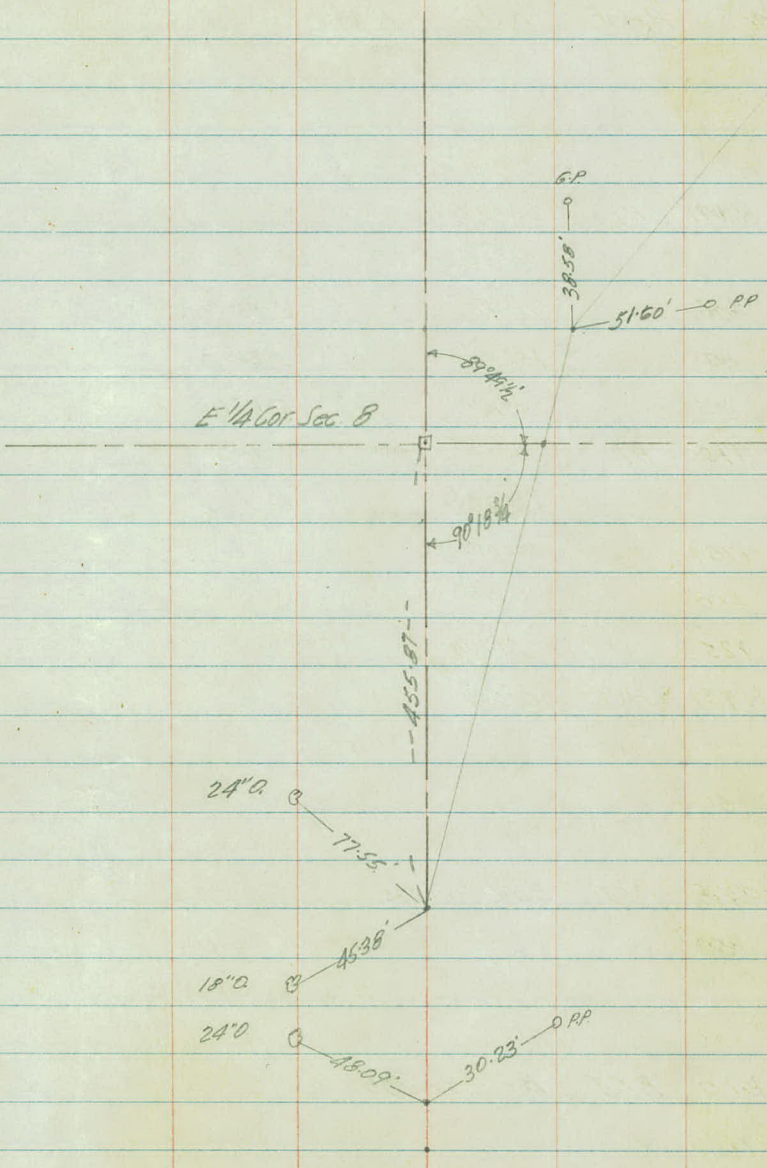
26 + 27.73	P.I.	0° 03'	E Co. Rd. B
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0 + 00	E Co. Rd. A ²		
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4118
3970
1218



Sto.	Point	ΔL	ΔB	
+11.07 +11.11	PT.	.015	14°145'	
55		.05	13°41'	
+50	+06		11°11' 8°59'	A-28°29'
54			8°41'	D-10°-
+71.87 +71.8	+85 PI.		7°56'	T-145.61, T-145.52
+50			6°11'	L-284.83'
53		.05	3°41'	R-573.69'
+50		.03	1°11'	
52+26.26 52+26.28	PC.		0°00'	
50+04.10 +04.08	PT.		2°02.5'	
50			2°01'	
+50			1°46'	
49			1°31'	A-4°05'
+50			1°16'	D-1°-
48	PI.		1°01'	T-204.3 T-204.23
+50			0°46'	L-408.33
47			0°31'	R-5729.65
+50			0°16'	
46			0°01'	
45+95.82 45+95.77 45+95.70	POS.T = & Co. Rd PC.		0°00'	



Sta	Point	ΔL	ΔE
41249	P.T.	$26^{\circ}39\frac{3}{4}'$	
58		$25^{\circ}02'$	
+75		$21^{\circ}47'$	$\Delta-53^{\circ}19\frac{1}{2}'$
+80		$18^{\circ}32'$	$D-260-$
+25		$15^{\circ}17'$	$T-111.61'$
41900	P.I.		$L-205.11'$
57		$12^{\circ}02'$	$E-222.27'$
+75		$8^{\circ}47'$	
+50		$5^{\circ}32'$	
+25		$2^{\circ}17\frac{1}{4}'$	
56 +0739	P.C.	$0^{\circ}00'$	
56 +0275	P.O.T.	End Bridge	
55 +61.0	P.O.T.	Beg Bridge	

$$\begin{array}{r}
 \text{P.I} \quad 57+19.00 - \\
 \text{T} \quad \quad \quad 1+1,1,61 \text{ T} \\
 \hline
 58+30.61 \text{ P.T.}
 \end{array}$$

$$\begin{array}{r}
 \text{P.I} \quad 63+59.72 \\
 \hline
 1 \quad 59.94 \text{ T} \\
 61+99.78 \text{ P.C}
 \end{array}$$

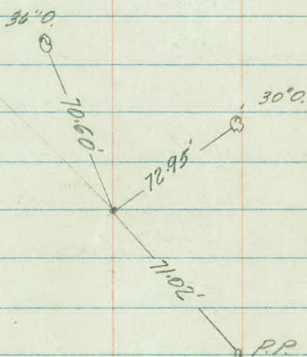
$$\begin{array}{r}
 61+99.78 \\
 58+30.61 \\
 \hline
 \underline{\underline{3+69.17}} \quad \text{OK}
 \end{array}$$

$$\begin{array}{r}
 61+99.78 \\
 58+12.49 \\
 \hline
 \underline{\underline{3 \quad 87 \quad 29}}
 \end{array}$$

$$\begin{array}{r}
 \text{P.T.} \\
 \text{S.B} \quad 58+30.61
 \end{array}$$

7-20-44

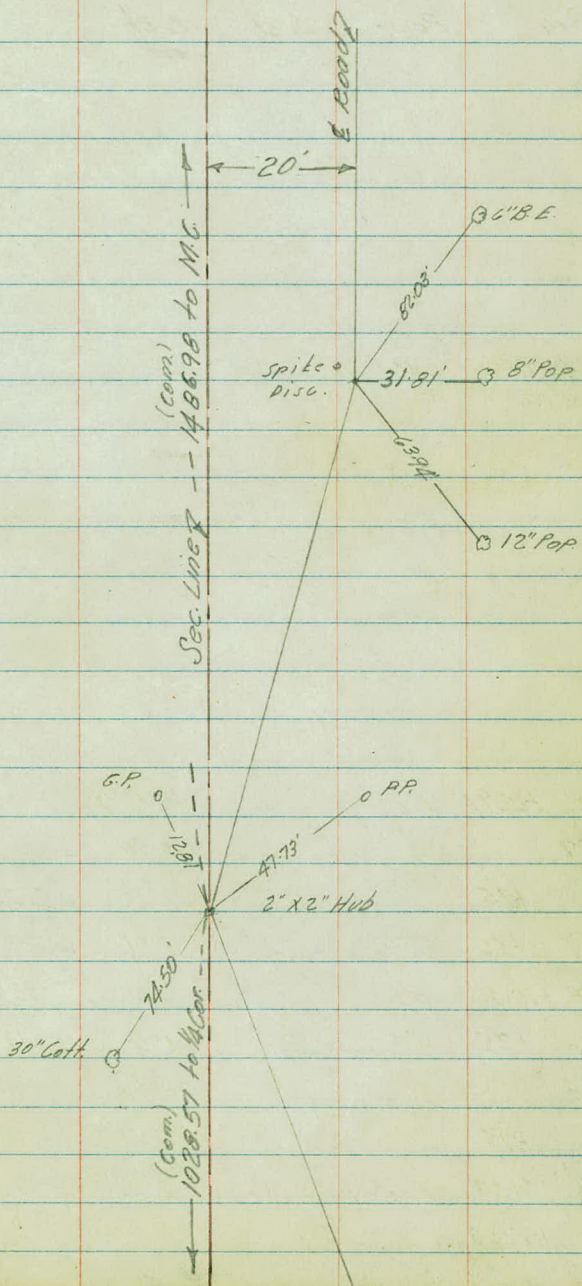
4



Sta	Point	ΔL	ΔB
+84.97	P.T.	$1^{\circ}30' \frac{1}{4}$	
+50		$1^{\circ}20'$	
68		$1^{\circ}05'$	$\Delta - 3^{\circ}00' \frac{1}{2}$
+50		$0^{\circ}50'$	$D - 1^{\circ} -$
+34.62	P.I.		$T - 150.48'$
67		$0^{\circ}35'$	$L - 300.83'$
+50		$0^{\circ}20'$	$P - 5729.65'$
66		$0^{\circ}05'$	
65 + 84.14	P.C.	$0^{\circ}00'$	
+14.89	P.T.		
65			$11^{\circ}15' \frac{1}{2}$
+50		$9^{\circ}23'$	$\Delta 23^{\circ}38'$
64		$7^{\circ}30' \frac{1}{2}$	$D - 7^{\circ}30'$
+59.72	P.I.		$T - 157.74$
+50		$5^{\circ}38'$	$L - 315.11$
63		$3^{\circ}45' \frac{1}{2}$	$P - 764.49'$
+50		$1^{\circ}53'$	
62		$0^{\circ}00' \frac{1}{2}$	
+99.73	P.C.	$0^{\circ}00'$	

9-21-44

5



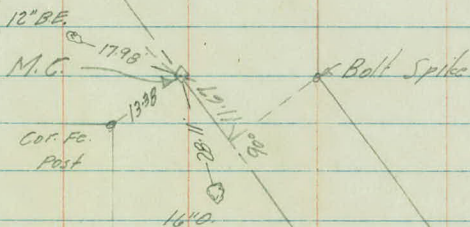
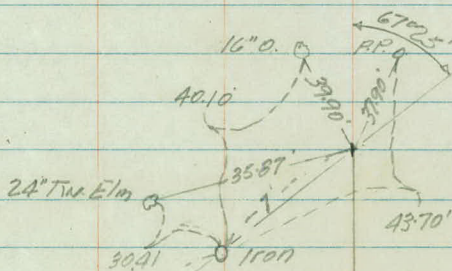
Sta	Point	ΔL	ΔB
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79+75.65 P.O.T. = & Co. Rd "C"

79	115.99 P.T.		11°18'4"
			10°16'
	+75		8°38'1/2 Δ-22°34'1/2
	+50		7°01' D-130-
78	+30.50 P.I.		T-8842'
	+25		5°28'1/2 L-173.91
78			3°46' R-491.68
	+75	04	2°08'1/2
	+50 P.C.		0°31'
	+42.08		0°00'

7-23-44

6



Sta

f

А

—

 E/eV

Topography

196-Ry. Mac. Curb - 21'
 194-2 - 35' 20' Long
 193-5 Fin 15' CM - 185'

4 FC-26 8' 11' 101-PP-16'

177-36" Maple - 24'
 167-5" P - 25'
 154-Range Tie
 148-FC Cor - 28' Δ in FC - 50'

3 8' 12'

181-End - EXILEM
 186-Range Tie
 178-FC Cor - 33'

164-PP-15'
 149-24" A-43'
 145-PP-14'
 120-Rd-20'
 129-End 18" Vt - 46'
 106-PP-37'

113-35" M.H. - 14'

2 5'
 184-End Wall - 235' & Hedge
 182-CP-12' End FC
 177-30" Maple - 21' 179-4" Pinc - 39'
 157-6" FC 174-5" Pinc - 28'
 139-End 18" CM - 17'
 132-4" Pinc - 31' 133-4'
 126-3" Pinc - 30' 128-4" Pinc - 27'
 125-FC Cor - 23' Reg Wall - 23'
 124-Cor Slab - 22'

44' - 47' Shldr - 94'

1 8'

168-SE Cor Fill. Sta - 60'
 164-End Curb Rod - 21' 175-15'
 158-Int. of Curb - 21'
 151-Cor Slab - 33' 29'

0+00

9-6-44

8

Pasture

Barn
Yard

Rubble Gutter

195' Ent. 19" X 200' 15'

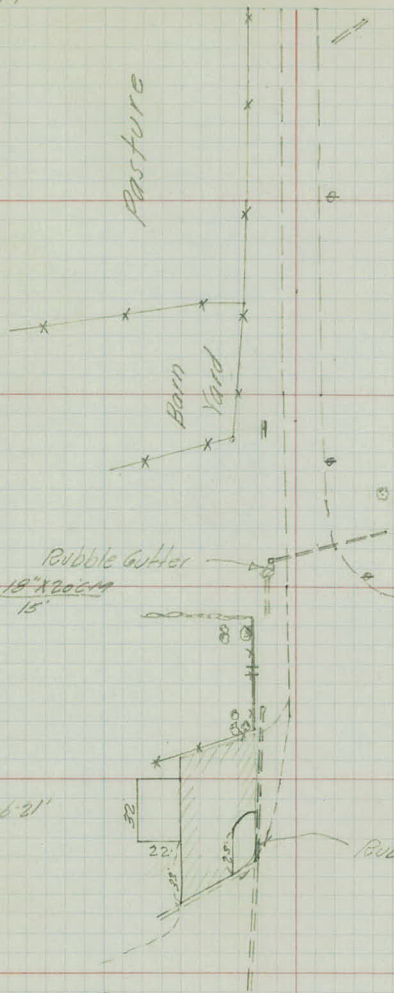
+84 Cor. Slob 21'

32'

22'

Rubble Curb

See Co. Rd. A² Survey
for balance of
Int. Topog. south of 0+00



26' Long

End Swamp - 46'

- 196' End 15" CM - 155'
- 184' 6" Wattle
- 175' End 15" CM - 32'
- 171-15' Willow - 31' + Fe.
- 154-12' Willow - 30'
- 139-18" Willow - 28'
- 129-18" Willow - 27'

11 Fe - 24' 11' 9' Swamp - 32'.

+ 84 PP - 16'.

10 Fe - 22 11' 9' Swamp - 29'.

157-12" CM - X Drain 21' - 195'.

+ 54 PP - 17'.

9 Fe - 24' 13' 11' Swamp - 29'.

8 Fe - 25' 12' 10' Swamp - 28'.

HA PP - 16'.

104-12" Willow - 24' 11' 9' Swamp - 33'.

7 Fe - 26'

+ 99-18" Willow - 25'

- 175 PP - 15'
- 150-110 Swamp - 70'
- 131-24" Will - 35'

6 Fe - 28' 10' 9'

+ 90-36" Cott - 22'

+ 78 End Mac. Culv. - 110'

- 134 PP.
 - 123- Dia Gutter - 50'
 - 119- Long Tie
 - 105- Coll Gutter - 145' & Gutter - 57'
- 5 Fe - 25'

7-6-44

9

PASTURE

SWAMP

Masonry
Arch Cuts

3' wide gutters

- 153-CP-18'
- 151-18'0-25'
- 136-15'0-26'
- 18
- 8' 12'
- +90-Tile+Makeshift C.B. 153'
- +80-PP-16.5' - 2 Ent-35'
- +71-3" Elm-41'
- +25-2" Elm-42'
- +105-Ent-
- +80-End Fe-33'
- +80-4" Elm-42'
- 17
- 9' 11'
- +38-PP-17'
- +12-Fe-33'
- 16
- 9' 11'
- Cor. Treest Brush-40'
- 15
- 9' 11'
- Treest Brush-35'
- 14
- 9' 11'
- +80-PP-17'
- Reg. Treest + Brush 1/2
- +62-8" Elm-40'
- +64-8" Elm-38'
- +53-10" Tw. Elm-42'
- +39-PP-
- +32-6' ent-37'
- +28-12" Elm-57'
- +19-Ent-80'
- +106-6' ent-80'
- +101-8" Tw. Pop-40'
- +105-End GR-44'
- 13
- 9' 11'
- +95-8" Pop-38'
- +87-4-6" Pop-32'
- +75-6" R-40'
- +78-15" Pop-30'
- +43-5" Pine-62'
- +61-6" Plum-68'
- +71-6" Plum-80'
- +26-End 12" (Hot water tank) -49'
- +71-2" Rubble gutter-51'
- +28-6" Brick steps-52'
- +14-24'0-26'
- +106-Range Tinto steps
- 12
- 9' 10'
- +13-PP-16'
- +104-4" Apple-21'

9-7-94

10

Pitch

873.0 F.L.

871.0 F.L.

Drain

Cult

Trees & Brush

Oil & Surface

Nursery

ent not in use

1554 7 12
20

Orchard

157-5 E Cor No - 164
145-800 Plant GR-36
132-546-56

- 17-28
 194-Fc-34' 180-8' 193-Ch. 3' P. 11/10r - 335'
 193-End 12" C.M. 14' 180-G.P. 19.5'
 168-18" O-25' 165-End Row Trees-32'
 160-PP-16.5' 172-hand ditch 200'
- 25 8' 12' Row Trees-34'
 hand ditch 100'
- 141-G.P.-22' 146-PP-15.5'
- 24 End Lowland 8' 12' 190.5 W Cor 2' P. 11/10r - 316 - Cor
 135-Beg Row 2" Willows - 34' Willows
 138-18" O-41'
 132-15" O-46'
 124-Ent- 12" X 20' C.M.
 33'
 109-12" O-39'
 105-PP-17.5'
- 23 109-G.P.-19' 8' 12' 103-18" O-41'
- 22 40-Ent- 12" X 20' C.M.
 36'
 120-End Row Willows - 33'
- 83-G.P.-20' 8' 12' 178-PP-16.5'
- 21 193-24" C.M. X Down 9' 11' Row Trees - 33'
 235-255
- 20 114-PP-16.5' 8' 11'
- 148 Δ Ditch 36'
 129-Beg. Row Willows - 35'
- 19 Beg. Lowland 8' 12'

ditch 200'

14 Tr.

ditch 100'

36 Tr.

6 Tr.
+ 90 bag. hand ditch
- 38'

5 Tr.

23 Tr.

32 Tr.

31 Tr.

LOWLAND

Elev. 873.1

Ditch

4" to 12" Willows

SCATTERED

Cyclopic FC)

+53-PP-28' FC-Cor.-33'

+18-15'0-38'

32 FC-33'

9'

+152-Clr 25' Pillar-30'

+24-Ent-

+16-28' Pillar-30'

14' Trees + Brush - 29'

+178-PP-28'

+88-24'0-36'

+172-18'0-35'

+66-18'0-38'

+56-Ent

+35-15'0-47'

+23-24' Momo-33'

+09-10'0-42'

+06-24'0-36'

31

9'

14'

+98-Rango Tie

+86-FC-Cor.-33'

+86-Cor-Brush + Trees-31'

+58-3" Chin Elm-34'

+50-3" " " -34 -6P-21

+45-3" " " -34'

+29-3" Chin Elm-34'

+49-Hedge 40-PP-28'

+46-8" Pop-43-12" Pop-48'

+42 1/2" Pop-43'

+13-8" Pop-44'

+09-8" Pop-44-47'

30 Patholo-50' FC-33' 9'

14'

+93-8" Pine-46'

+68-8" Pine-47'

+43-6 Double ent

+30-15'0-49'

+27-PP-28'

29 FC-34'

8'

14'

+80-6'0-33'

+40-6" Plum Tr-44'

+37-FC-33'

+22-30' Elm-41'

+15 } Cor. Lillacs-37'60' 8'

28 FC-32'

+41-12'0-49'

+26-Ent 12" X 20' CM-21'

+09-6" B.E.-46' 124-6'0-51'

13'

+92-5.E. Cor. Ho.-86'

+84-6" Pine-65'

+81-5.E. Cor. Play Ho. 36'

+95-PP-28'

+75-18'0-50'

+70-PP-34'

+50-6'0-43'

+20-FC-33'

27 FC-36'

8'

13'

+69-Ent 12" X 6' CM-15'

+65-FC-73'

+75-10'

+79-PP-28'

+50-Ent- 12" X 16' CM, 22' buried

+37-50'

+27-Clr Pile + Ent Wall-33'

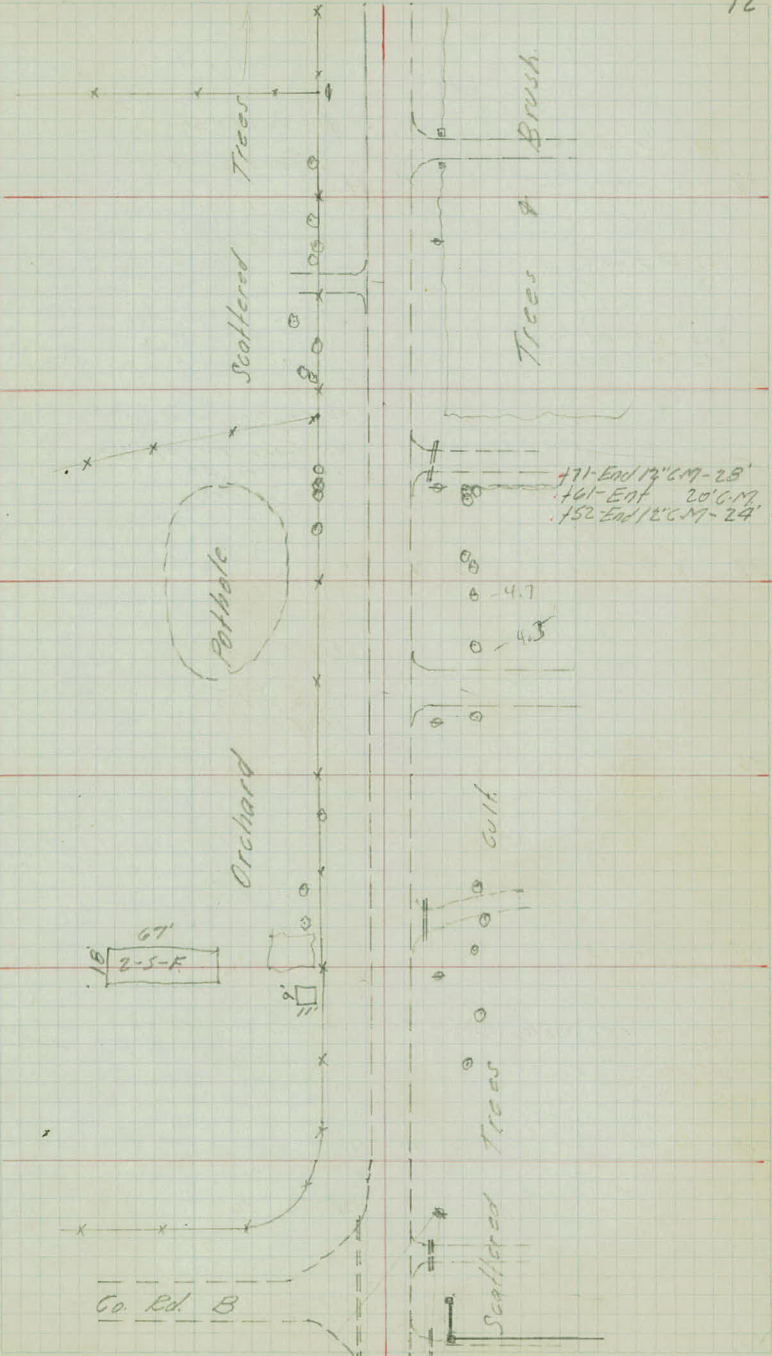
+66-Clr 3" Box Pillar + Cor Wall-33'

+03-Ent 15" X 20' CM, 22'

26

+16-41'

12'



- 41
- +152-Δ in Fc - 63'
 - +180-PP-28'
 - +67-End 15" CM X Diom - 37'
 - +50-18'
 - +125-Shrubs - 60'
 - +25-11'
 - 39 Beg. Shrubs - 45'
 - +94-6" Pine - 51'
 - +67-6" Elm - 50'
 - +23-12" O - 43'
 - +15 Cor. Shrubs - 36'
 - 38
 - +87-Ent - $\frac{15" \times 26" CM}{25'}$
 - +12-6" Pop - 32'
 - +174-PP-31'
 - +36-Ent - $\frac{18" \times 35" CM}{25'}$
 - +124-15" O - 52'
 - +37-18" O - 39'
 - +35-15" O - 46'
 - 9
 - 12
 - +168-Ent - Cornc 15' wide
 - +59-End Rubble HW - 57'
 - +54-15" O - 44'
 - +38-Beg Rubble HW - 18'
 - +36-10" Pop - 35'
 - +52-PP-28'
 - +28-3" Cedar - 34'
 - +22-6" Lin/cor - 35'
 - +12-6" Ash - 35'
 - +87-10" Elm - 33'
 - +85-Beg. Wood Picket Fc - 31'
 - +165-Range Tie to Hedge
 - +64-8" Tree - 33'
 - +50-8" Tw. Tree - 33'
 - +49-PP-28'
 - +77-18" O - 40'
 - +94-PP-28'
 - +134-6" Ash - 38'
 - +35-6" Ent - 41'
 - +102-6" Ent - 10'
 - +102-Cor. Rubble Wall - 31'
 - +99-Range Tie to Wall
 - +96-Cor. 2.5" Pillar - 33'
 - +83-Ent - 15" X 26" CM - 30'
 - +80-Range Tie
 - +82-Cor. 2.5" Pillar - 33'
 - 36
 - +12-PP-28' Fc Cor. - 33.5' End - 42'
 - +11-Ent - 15" X 26" CM - 21'
 - +60-Range Tie
 - 10'
 - 13'
 - 35
 - Fc - 33'
 - +62-Ent - 12" X 26" CM - 22'
 - +109-Fc Cor - 33'
 - +38-Δ in Fc - 44'
 - +35-Cor. 2.5" Pillar - 48'
 - +29-Ent
 - +23-2.5" Pillar - 48'
 - +14-Δ in Fc - 32.5'
 - 34
 - 11'
 - 14'
 - +90-Cor. Shrubs - 33'
 - +77-PP-28'
 - +16-6" Elm - 58'
 - +92-8" Elm - 58'
 - +88-5" V. Cor Ho - 57'
 - +23-6" Double Ent - $\frac{12" \times 34" CM}{21'}$
 - +11-PP-28'
 - 10'
 - 13'
 - 33

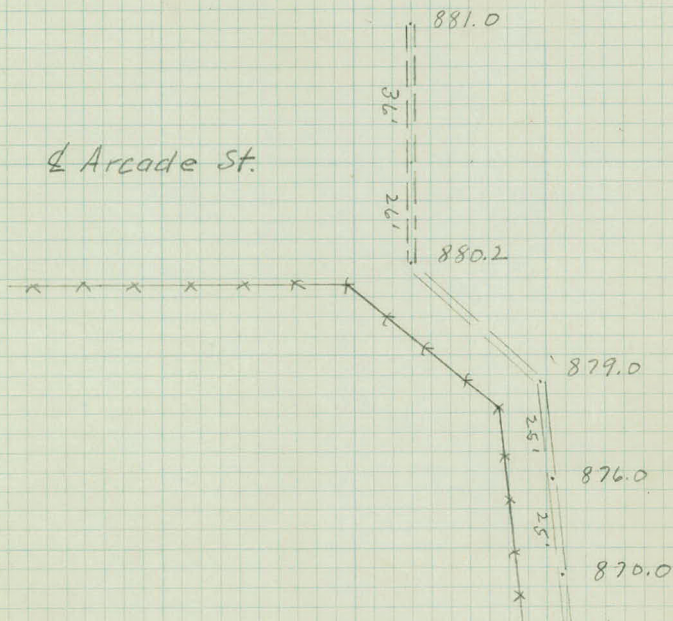
7

3-9-45

40

39

⊥ Arcade St.



+98 A Ditch 56'

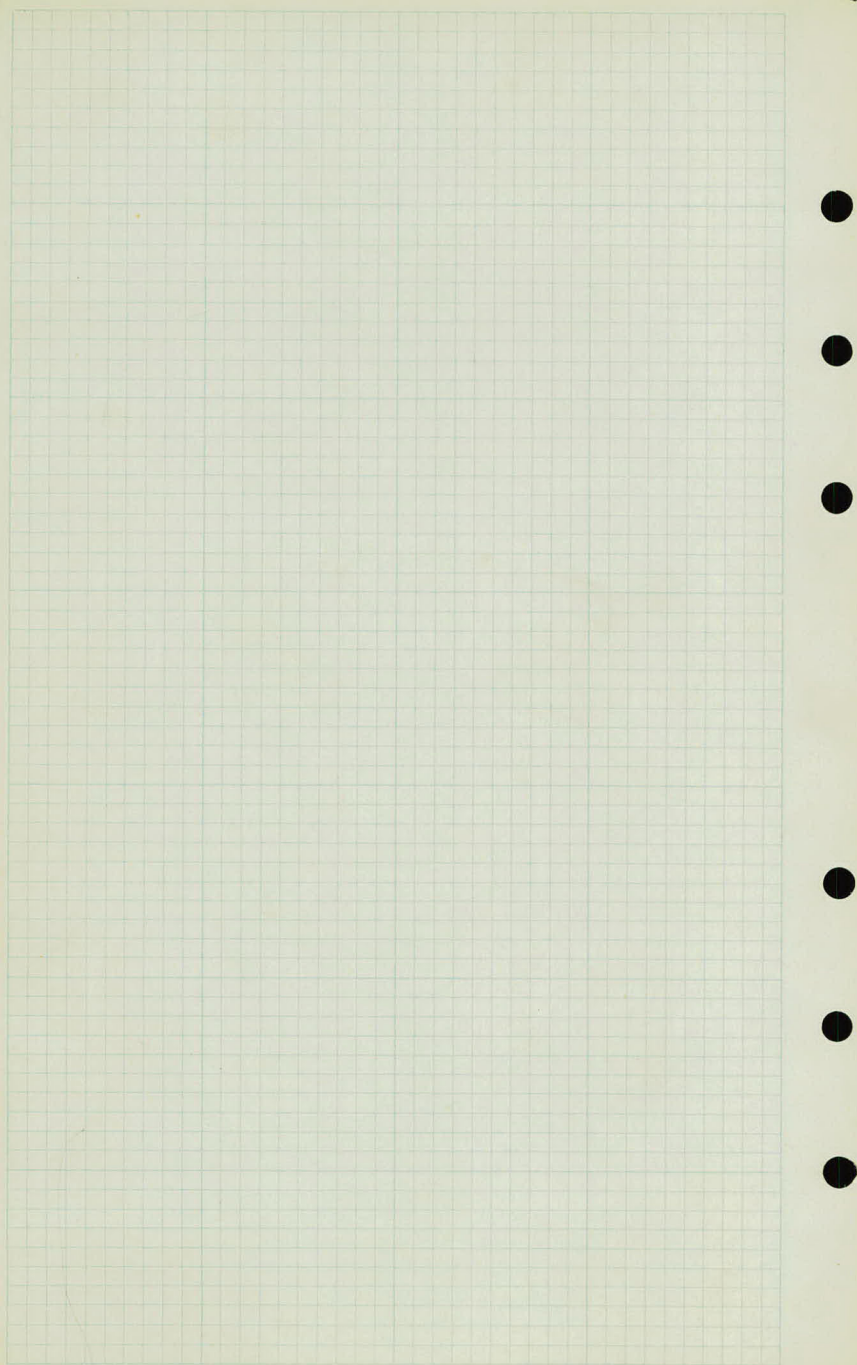
+87 F.C. 64'

+81 Rge Tie

+65 18" X 62' C.M. (New)

+48 F.C. 32'

+09 Rge Tie



shrubs

Conc. beg. 32' from &
53' out 11' wide

+ 96-Con. Shrubs - 57-35

+ 95-10' Pop 34'

scattered

scattered Oaks

con. d. i. v. s.
12' wide at 32'
8' " " 38'
7' " " 50'

Shrubs

26'
25'

151-18'0"-37'

158-18'0"-49'
137-24'0"-48'
134-15'0"-30'

147-12'

122-End G.E. - 141

107-56'

113-PP-26'

162-10" C.M. X Drain

183-60'
23'-20.5'

174-Bog G.E. - 143'

156-Brother Pipe - 36'

144-11'

151-Sto. Marker - 34'

See X-sections for Profile of Pipe

20'-42'

143-Brother Pipe - 32'

105-18" X 67.5" C.M. X Drain

11' 11'

199-PP-27 Rectifier on P.P.

194-6.3' Wood Step - 20.8 - 20.4 R. E. S. S.

133-Curb - 33'

134-Bog Curb - 25.4 X 20' C.M.

124-Ent. - 18" X 26' C.M. - 25' + 5' Oil Drum

118-Range Tie - 7'

115-Curb - 36'

112-Bog Conc Curb - 256'

10' 13'

135-18'0"-36'

112-15'0"-40'

187-PP-28'

133-6" Tile Roof Drain - 43'

13'-10' 15'

150-20' 39' 172-PP-29'

27-133'

17-127'

415' 165'

41

40

Co. Rd. B2

Ho.

Great Lakes Pipe Line

$$\frac{44' - 21'}{X - Sec.} = 2.5'$$

Conc. Slab

Flo.

21' - 1'

+44-24' CoH-93'

53
+99-6-P-43'

23 - 2'

+112-24' CoH-100'
6 Trail-134'
+99-PP-15'

26' - 4'

+60-36" CoH-63'

+110-Cor Trees + Brush-57'
52

29' - 8'

+11-30" CoH-63' 21' 0-25'
+103-30" CoH-65'

+61-6-P-45'

31 - 9'

+60-PP-7' 24' CoH-91

51 Trees 46'
Brush

30' - 8'

+25-Trail-125'

Ent.

+85-Trail-131'

28' - 7'

+63-5-P-29'

+14-6-P-45'

50 Trees 46'
Brush

26 - 5

+16-PP-12'

49 Trees + Brush-46' 21' - 0

+65-End 12" Vit.-31.5' 51' X Drain

+68-End 12" Vit.-19.5'
+62-PP-21

48 Trees + Brush-44'

17' 5'

+98-12" Willow-41'

+78-15" Willow-59'

+66-12" 0-39'

+35-PP-25

47

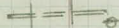
13' 8'

+13-12" Willow-47

7-28-44

15

Trees & Brush



- +71-24" Coll-42'
 +65-30" Coll-25'
 +37-30" Pop-36'
 +18-24" Pop-49-25'
 60 24" Pop-40 3' 19'
 +79-18" Willow-50'
 +57-18" Pop-33'
 +26-End 15" C.M.-45'
 59 6 14' +118-End 15" C.M.-32'
 +118-End 15" C.M.-32'
 PP-25'
 +96-Edge Trail 15" X 32" C.M.
 +83-Ent. 29'
 +46-18" Willow-44 8' 12'
 58 11' 10'
 +89-PP-22'
 +81-6" O.-42'
 +75-12' 13'
 +69-36" O.-47'
 +66-15" O.-43'
 +50-End G.R.-13.5' 11' 23'
 57 6' 13' 10'
 +75 G.R.-13.5' 10'
 +50-G.R.-14' 10'
 +25 G.R.-15' 10'
 +02.75 Cor Br. 16-16' 104-15" Pop-42'
 56 +45-Rd.-14' +48-PP-32'
 +37 G.R.-13'
 +09-15" Pop-49'
 +61 Cor. Bridge 16-16'
 +99-End Wing Wall-27.5'
 +103-End Wing Wall-27.5'
 +142-End G.R.-15'
 +132-PP-29'
 +131-800 G.R. 20' Edge Trail-10'
 55 +103-800 G.R.-15' 11' 11'
 +87-6" Plum Tr.-38'
 +43-12" O.-51'
 +36-Ent.-18" X 26" C.M.
 +46-6" O.-63' +17-6" O.-63'
 +107-12" O.-18' 5' O.-61'
 +105-G.P.-34'
 54 14 10' +102 & Trail-51'
 +100-Edge Trail-11'
 17 5' +101-PP-22'
 & Trail-100'

Lake 48'

+50-Lake-43'

Lake-48

+50-Lake-36

Lake-37

+50-Lake-45

Lake-50'

Lake-50'

+65-Lake-51'

+37-Lake-42

+15-Lake-38

20' Roadway

3' Side walk

1' Conc. Railing

LAKE

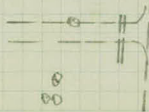
JERVAIS

Shrubs-38'-40'

For Details of
Int. & Lake see
Stadia Topog.Wing Walls 17.5' Long at
45°

KELLER

LAKE



- +85-6" B.E. - 36'
- +50-Lake-92
- +54-12" Pop - 33'
- +36-6" Pop - 34'
- 67 Lake-90 8' 13'
- +80-12" Pop - 35'
- +77-PP - 26'
- 66 P Conc. Drive 5' 17' 1' Conc. Retain Walk on No. Side
- +38-2' End 10' Conc. Drive - 37'-82'
- +81-6" Pop - 41'
- +41-8" Pop - 49'
- 65 0 22 PP-35'
- 1-22'
- 64 0 21'
- +72-G.P.-17'
- +70-PP-29'
- 0 20
- +30 Large Tie R
- +25-6" Ent. - 34'
- +20-Ent - 38'-50'
- 63 2-22'
- +89-36" Cott. - 37'
- +80-N.W. Cor Ho. - 93'
- +16-S.W. Cor Ho. - 84'
- H5 Parag. Tie to Pop
- +05-PP-33'
- +01-Low E" Ry - 53'
- 62 3'-25'
- +07-G.P.-14'
- +42-12" O - 56'
- +23-24" O - 66'
- +22-Range Tie
- +11-Ent. 12" x 24" Conc
- 61 1-21' 30'
- +38-30" Cott. - 44'
- +08-24" Cott. - 44'

+50-Lake-90

Lake-88'

+50-Lake-79

Lake-61

+50-Lake-52

Lake-46

Lake-42

Lake-43'

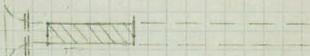
+50-Lake-42'

Lake-41'

+50-Lake-47

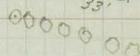
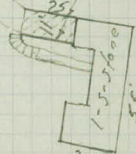
JERVAIS LAKE

Ho.



Ent- 43-54'

Max walls



8' Conc drive 33'

Conc.

+106-6" Willow - 19'

+153-4" Willow - 20'

+120-4" Willow - 20'

74 Fe - 33' 10' 11 Fe - 20'

+187-PP - 20'

73

10' 10' +120-8" Willow - 19'

+105-8" Willow - 19'

+195-18" Pop - 36'

+182-12" Cott - 35' +188-18" Pop - 33'

+177-18" Cott - 32'

+174-8" Pop - 32-33' +18" Cott - 37'

+157-24" Cott - 33' +15" Cott - 36'

+155-8" Pop - 34'

+127-18" Willow - 39'

+11-18" Pop - 37' +13-18" Pop - 34'

72 Fe 32' 11'

+106-6" Willow - 20'

Fe - 20'

+178-24" Cott - 32'

+153-24" Cott - 35'

+130-18" Cott - 36'

+119-18" Cott - 36'

+105-6" Tw. B. E. - 35'

71

10' 11' Fe - 21'

+127-PP - 20'

Field
+10 Ent. covering W. End of K. Drain?

2-12" Dredge Pipes +140-18" Vit. - 22'

+109 X Drain - 18-22' +121 Fe Cor - 23' + Beg. Swamp

+103 End Cyclone Reg Wire

70 Mark Fe - 33' 10' 11'

+172-PP - 22'

+140-6" Ash - 37'

+12" Cons. slab - 33'

+14 E Ent. 15" X 20" C.M.

69 10' 12' 23'

+192 Fe Cor - 33'

+50 Lake - 96

+158-8" Elm - 30'

+145-6" B.E. - 32'

+122-PP - 22'

+111-6" B.E. - 33'

68 Lake - 92

9' 12'

9-28-44

18

Woven Wire

Pasture

Pasture

Swamp

Barb Wire

See stadia topog. notes
for more topog.

conc.

25'
1 1/2 S-Br
90'

80 G.R. 13' 10'

- +78-15" B.E. -34'
- +60-8" B.E. -19'
- +44-18" Tw. Elm. -19'
- +50-6.R. 13.5 10'

79 G.R. 14.5' 11'

- +81-24" Tw. Basswood -37'
- +50-15" Linden -45'
- +95-12" O. 50' +48-15" B.E. -44'
- +50- G.R. 17' 12'
- +37-15" Linden -52'
- +34- Fc. Cor. -44' +45 Range Tie
- +110-15" O. -36'
- +105-15" O. -25'
- 78 Fc. -37' G.R. 16' 9'
- +89-12" O. -34'
- +73- Beg. G.R. 15'
- +71-6" P. 20' +77-12" O. -29'
- +64-15" O. -27'
- +50-12" O. -27' Rd. 9' 13'

77 Lake-163' Fc. -32' 9'

- +91-24" Linden -27'
- +80-12" Elm. -21'
- +52-36" Willow -22'

- +72- E. Ent. 33' 12" X 26" 10'
- +64- Range Tie 31'
- +45- PP -50'
- +33- Beg. Cyclone Fc. -33'

76 Fc. -33' 9' 10'

- +83-18" CM. X Dr. 15-16'

- +78-18" Willow -35'
- +71-15" Trip. Willow -37'

75 10' 10' Fc. -19' Swamp -75'

- +62- Int. of Fc. -62'
- +56- Dip Fc. -33'
- +48-24" Coll. Fc. -49'
- +25- Rd. -12'
- +14- Beg. Fc. -19' +21- P.D.E. -39' 1 Fc.
- +01- PP -17'
- 10' Fc. -34' 5' Linden -45'

- +66-6" Basswood -41'
- +60-18" O. -45' +2-12" O. -37'
- 10' Fc. -27'
- +48-15" O. -42'
- +26-5" M. -33'
- +07-63" Conc. Steps -17.5-27' 40 steps
- 12' Fc. -27'
- +96-5" M. -34'
- +83-24" Coll. -38'
- +63- P.D.E. SW Cor. Ho. -154'
- +60-24" Coll. -40' +71- PP -17'
- +38-20" Coll. -40'

+15-24" Coll. -41'

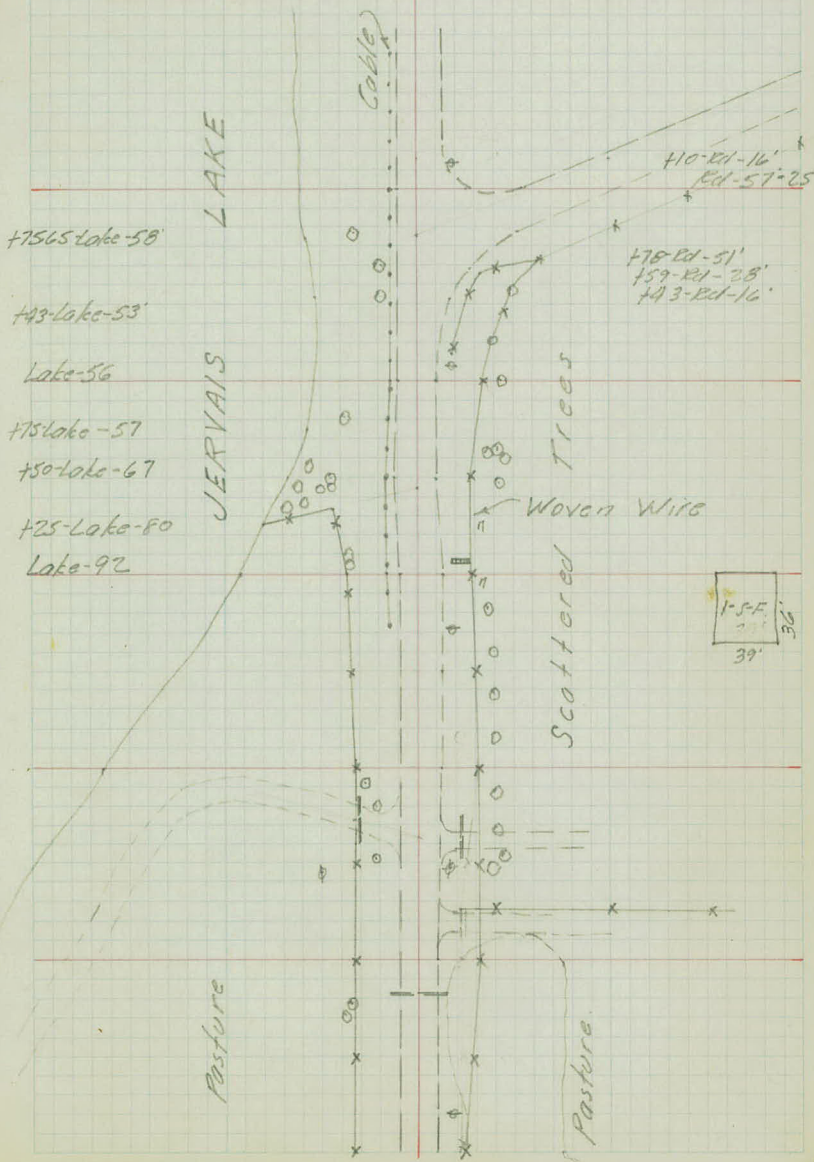
12' Fc. -31'

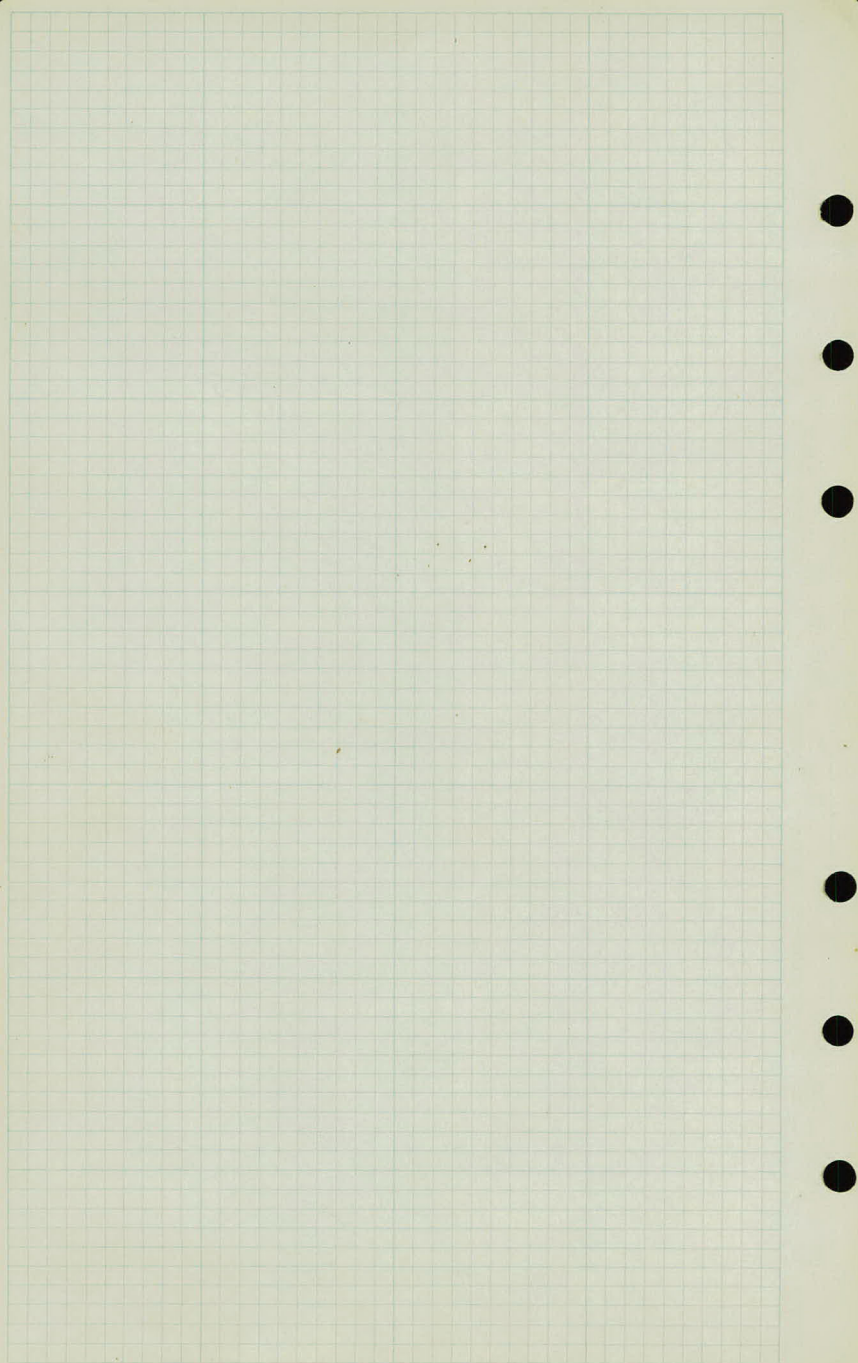
- +87-20" PP -41'
- +67-12" PP -51'
- +61- Ent. 10" X 26" 17-26'
- +54-20" Coll. -47'
- +47- PP -17' 18" PP -40'
- +27- Fc. Cor. -31'
- +20- Ent. -15" X 20" CM -27'
- 10' Fc. -22' Swamp -75'

+20- PP -18'

9-29-44

19





ArCADE St.

Stadia Location of pit at sta 2+

sta	azimuth	dist	Red	Elev
-----	---------	------	-----	------

H.I. = 891.3

H.I. = 5.4 above sta 3100 ^{5.4} 85.9

At sta 3100 N = 0°00'

2' Bot. ditch	123°30'	106	7.4	83.9 ✓
---------------	---------	-----	-----	--------

" 3' Bot. ditch	109°25'	152	8.5	82.8 ✓
-----------------	---------	-----	-----	--------

" 8' Bot ditch	103°30'	228	10.3	81.0 ✓
----------------	---------	-----	------	--------

8' Wide Main ditch	98°10'	324	13.5	77.8 ✓
--------------------	--------	-----	------	--------

Shoulder	100°50'	330	8.8	✓
----------	---------	-----	----------------	---

"	110°45'	190		✓
---	---------	-----	--	---

"	123°35'	145		✓
---	---------	-----	--	---

"	141°25'	120		✓
---	---------	-----	--	---

Edge Roadway	107°20'	332		✓
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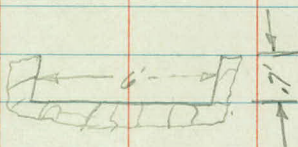
" "	114°35'	195		✓
-----	---------	-----	--	---

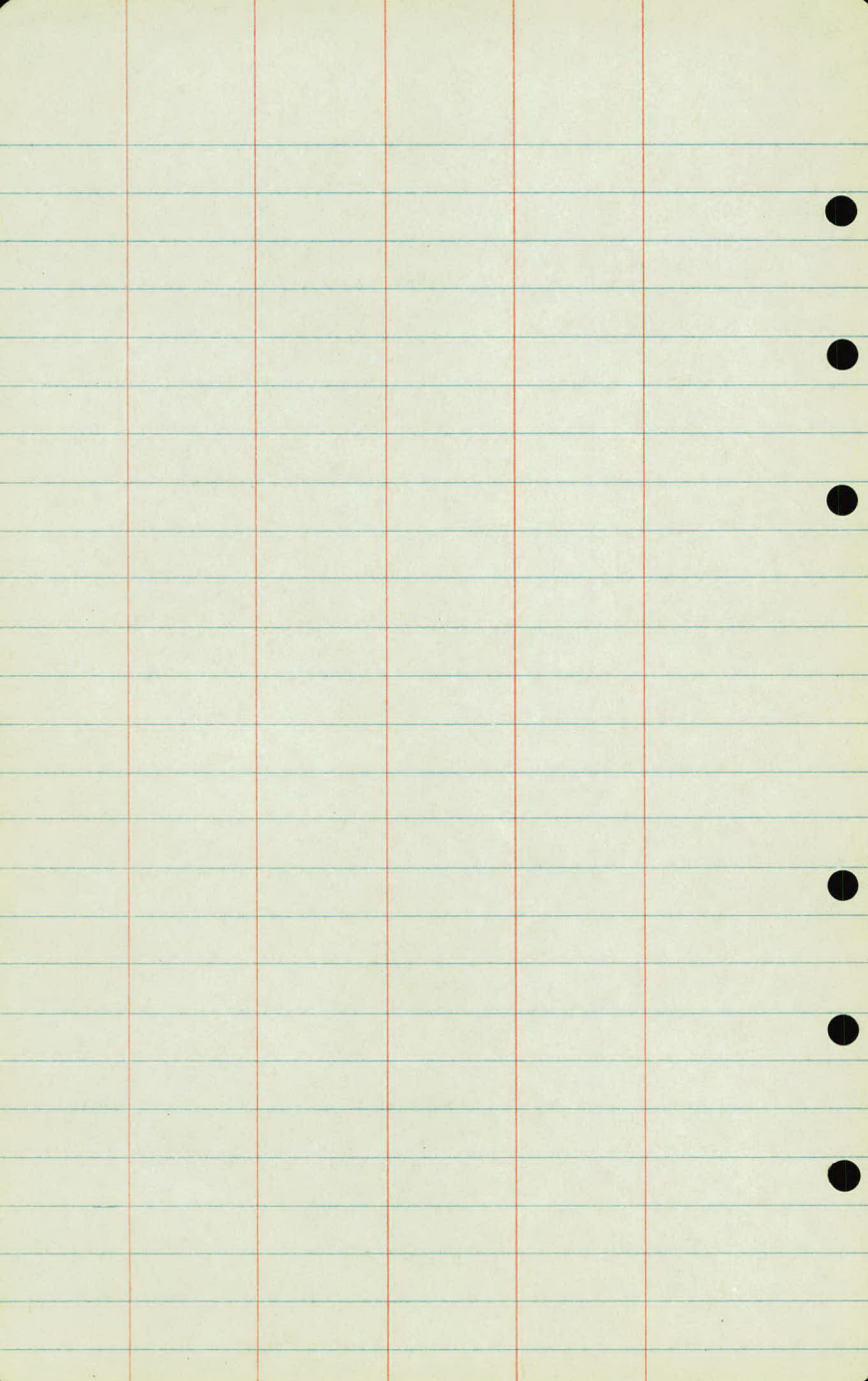
" "	126°40'	152		✓
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" "	143°20'	126		✓
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1-6-45
K.H.
G.F.
C.N.

5° Above





ArCADE St.

stadia location of int. at S.T.H. 36

Sta

Azimuth Dist.

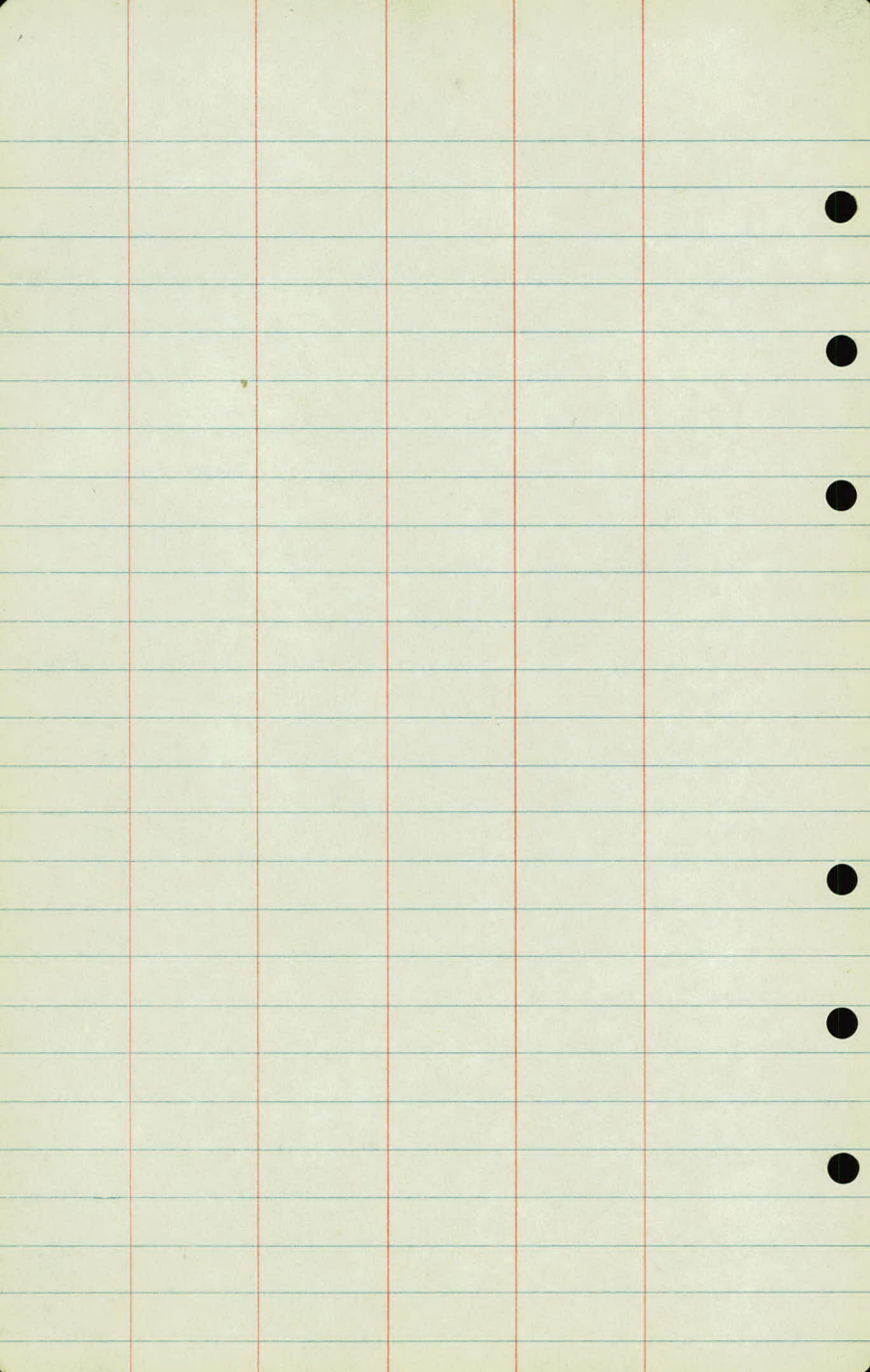
At Sta 41+00 N=0° 0°00'

Edge Rdway	129°-00'	65'	✓
" "	89°-45'	80'	✓
" "	74°-00'	115	✓
" "	69°-00'	158	✓
" "	67°-30'	250	✓
" "	56°-50'	257	✓
" "	53°-30'	187	✓
" "	42°-00'	150	✓
" "	22°-30'	146	✓
" "	348°-45'	128	✓
" "	315°-00'	85	✓
" "	287°-10'	90	✓
" "	267°-40'	116	✓
" "	261°-00'	157	✓
" "	255°-30'	250	✓
" "	245°-00'	257	✓
" "	243°-30'	172	✓
" "	236°-45'	133	✓
" "	217°-30'	111	✓
" " island	219°-40'	92	✓
" "	233°-30'	101	✓
" "	241°-40'	93	✓
" "	234°-20'	36	✓

1-6-45
K.A.
C.F.
C.N.

5° Above.

Sta			Azimuth	Dist	
Edge Rd. way	Island		219°-00'	30	✓
"	"	"	159°-10'	46	✓
"	"	"	115°-15'	16	✓
"	"	"	86°-15'	19	✓
"	"	"	74°-00'	61	✓
"	"	"	84°-30'	59	✓
"	"	"	122°-00'	45	✓
"	"	"	153°-45'	51	✓
"	"	"	26°-45'	63	✓
"	"	"	13°-30'	67	✓
"	"	"	7°-30'	126	✓
"	"	"	12°-30'	134	✓
"	"	"	27°-20'	123	✓
"	"	"	44°-45'	133	✓
"	"	"	47°-15'	127	✓
"	"	"	341°-10'	47	✓
"	"	"	349°-30'	82	✓
"	"	"	343°-30'	86	✓
"	"	"	324°-15'	68	✓
"	"	"	295°-50'	64	✓
"	"	"	291°-50'	58	✓
"	"	"	330°-30'	41	✓



*Stadia
Topography.*

Object	Azimuth	Dist	
At P.I. sta 57+19.0			
To P.I. sta 53+71.8	=	180°00'	
E. Edge Bl. Top	0°00'	22'	✓
" " " " + E. ent.	89°45'	56'	✓
Beg. 12" conc. ent. slab	74°—	74'	✓
Beg. Max. Wall	79°30'	77'	✓
End Wall			✓
Cor. Fc.—	98°—	138'	
E. Edge Bl. Top	2	103°15'	130' ✓
" " " "	3	109°10'	188' ✓
" " " "	4	113°10'	257' ✓
E. End 12" C.M. X Drain	105°20'	192'	✓
W " " " " + Lake Shore	119°45'	185'	✓
Fc. Line Cyc. Fc.	108°20'	270'	✓
W. Edge Bl. Top	5	117°30'	261' ✓
" " " "	6	115°45'	201' ✓
" " " "	7	112°15'	191' ✓
" " " "	8	112°—	98' ✓
" " " "	9	117°40'	68' ✓
" " " "	10	137°—	50' ✓
" " " "	11	160°45'	58' ✓
Lake, E. shore	125°30'	255'	✓
" " "	131°30'	146'	✓
" " "	153°—	120'	✓
End G.P.	137°—	57'	✓

9-28-44

21

Object	Azimuth	Dist.	
West Lake shore	145°40'	450'	✓
" " "	147°30'	355'	✓
" " "	150°10'	275'	✓
" " "	155°30'	212'	✓
" " "	165°40'	169'	✓
" " "	191°40'	168'	✓
" " "	199°45'	192'	✓
" " "	214°—	229'	✓
" " "	225°—	270'	✓
" " "	233°—	310'	✓

At sta. 70+00

To sta. 75+00

0°00'

& Cong. slab. ctr. curve.	148°50'	109'	✓
" " "	146°45'	128'	✓
" " "	Tangent 147°55'	151'	✓
" " "	ctr. curve 147°—	181'	✓
" " "	144°30'	195'	✓
" " "	137°50'	226'	✓

S. W. Cor. Bldg. 90° N + S
25' E + W.

135°45' 246' ✓

End Fc. 224°45' 153' ✓

End 18° vit. 246°30' 138' ✓

Lake shore 233°30' 129' ✓

" " 258°30' 157' ✓

" " 261°— 235' ✓

" "

Object

Azimuth

Dist

Edge Swamp

78°15'

106'

✓

" "

66°30'

207

✓

" "

58°15'

268'

✓

" "

48°50'

333'

✓

" "

44°15'

410

✓

" "

10°15'

455

✓

" "

40°40'

505

✓

" "

10°—

444

✓

" "

42°—

582'

✓

" "

25°15'

458'

✓

" "

44°15'

655

✓

" "

34°30'

503

✓

" "

38°45'

562

✓

" "

36°45'

672

✓

" "

38°50'

608

✓

" "

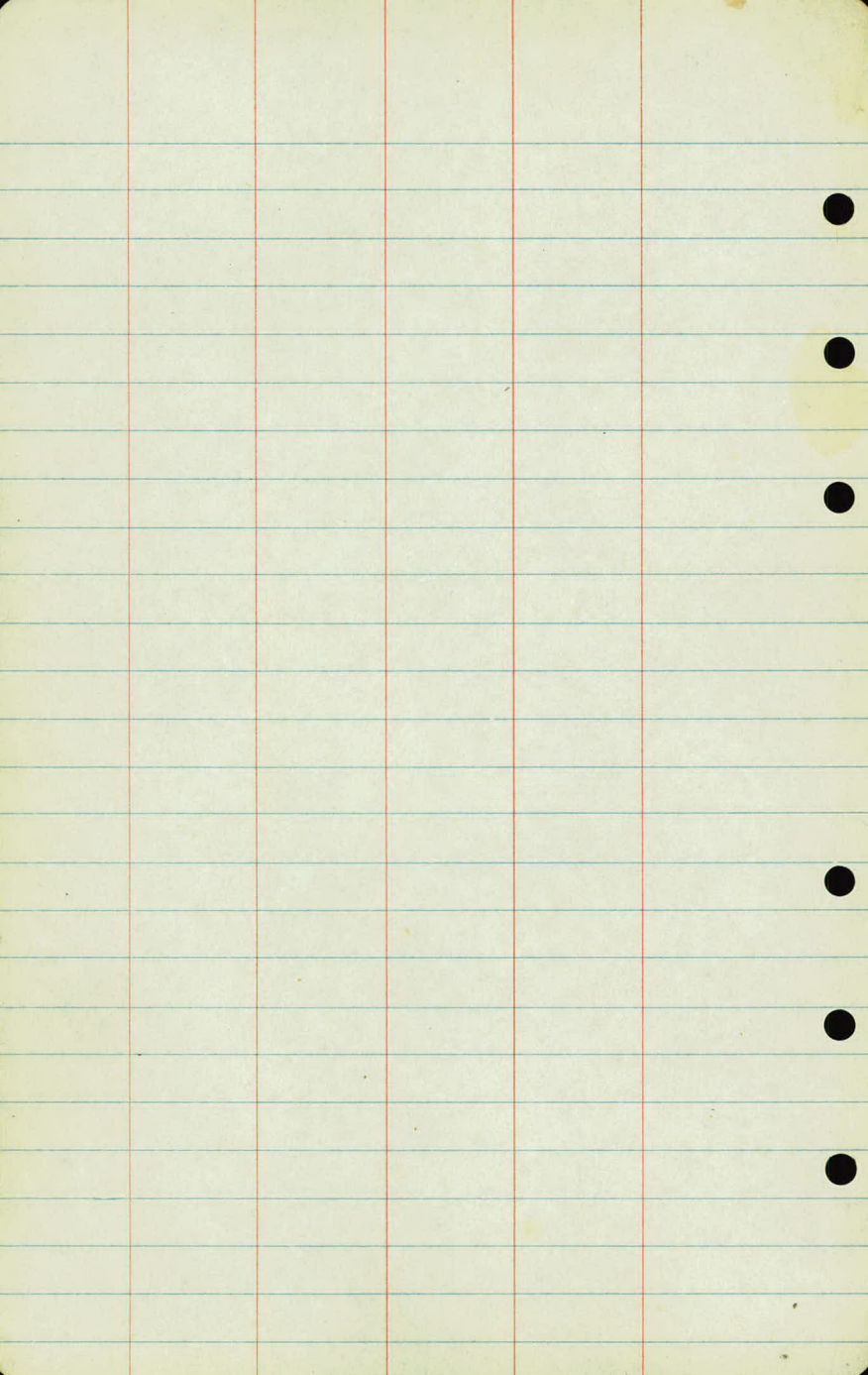
34°—

720

✓

Soundings

Arcade St.



Bench Levels

Sta.	+	π	-	Elev	
B.M.	0.43	899.49			(899.06)
T.P.	0.09	886.11	13.47	886.02	
T.P.	0.17	874.06	12.20	873.91	
B.M.	8.24	873.51	8.81	865.27	
T.P.	13.72	886.98	0.25	873.26	
B.M.			3.61	883.37	
T.P.	0.55	884.71	2.82	884.16	
T.P.	13.43	897.32	0.82	883.89	
B.M.	9.97	903.09	4.20	893.12	
T.P.	4.77	903.99	3.87	899.22	
T.P.	0.17	893.13	11.03	892.96	
B.M.	3.30	886.99	9.44	883.69	
T.P.	1.91	879.78	9.12	877.87	
T.P.	2.53	876.62	5.69	874.09	
B.M.			5.60	871.02	
T.P.	6.28	869.36	13.54	863.08	
T.P.	6.61	871.44	4.53	864.83	
B.M.			7.16	864.28	
T.P.	5.20	869.33	7.31	864.13	
T.P.	9.79	875.46	3.66	865.17	
B.M.			3.33	872.13	(872.12)
T.P.	6.81	881.69	0.58	874.88	
T.P.	1.25	873.86	9.08	872.61	
T.P.	8.34	873.24	8.96	864.90	
T.P.	9.32	874.93	7.63	865.61	

9-2-44
F.A.
L.C. T
C.F. Rod

23

Description

Top S. End Conc. Pump Stand at Fill. Sta. N.W. Cor. Arcade at "A"

Spk. in Arc Light Pole No. A-53 at sta. 844

Spk. in P.P. at sta. 16+38

R.R. spike in ^(Face of) Pillar 30' East of Mont. at "B" + Arcade St.

Spk. in Arc Light Pole at S.T.H. 36 + Arcade St.

Top S.W. of S.E. Cor. Bridge

Top Conc. Footing at ^(Cor) Fe. Post Lt. of 68+92

Spk. in 18" Tr. Elm S.W. Cor. "C" + Arcade St.

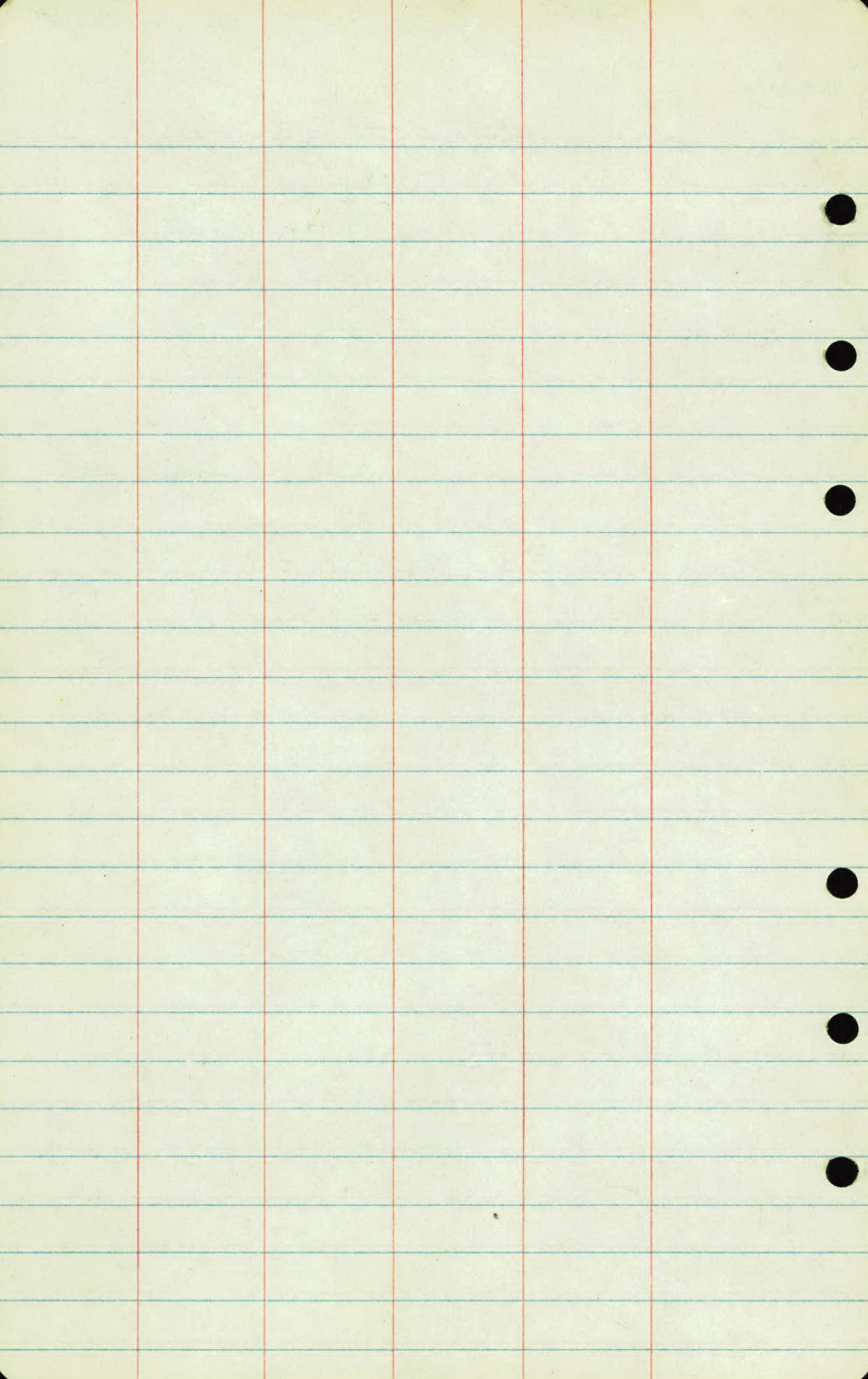
Sta	+	π	-	E/cr
		874.93		
T.P	5.21	870.22	992	865.01
T.P	5.83	872.36	3.69	866.53
T.P	4.06	871.02	5.40	866.96
T.P	7.60	874.78	3.84	867.18
T.P	3.28	870.46	7.60	867.18
T.P	5.48	869.40	6.54	863.92
T.P	9.24	873.92	4.72	864.68
B.M			1.32	872.60 (872.58)

9-5-44

24

Description

Top Mont. Co. Rd. "C" & Edgerton St.



1
Arcade St.

Ec-X Sections

Sta 8100 to Sta 10138

Sta	+	π	-	Elev
B.M.	0.10	899.16		(899.06)
T.P.	1.16	886.80	13.52	885.64
T.P.	0.49	874.15	13.14	873.66
B.M.			8.96	865.19
T.P.	5.15	869.00	10.30	863.85
B + 100				65.1

+27 64.5

+67 63.7

+95 63.2

T.P. 4.49 868.34 5.15 863.85

9 63.2

+16 63.0

+50 62.8

1-7-47
K.F.
M.B.
J. Fitz.

+25° strong winds

2

L

E

R Arcade

Top S. End Cox. Pump stand at Fill. Sta. Co. Rd. #2

Spk. in 24" Willow Lt. sta

76 82 75 42 39 39 41 48 57 92 110 106
50 27 24 18 9 8 17 21 29 43 50

77 81 74 46 44 45 46 55 74 93 93
50 27 23 18 9 9 18 24 31 50

83 78 50 50 53 52 54 62 110 113
50 25 20 50 6 16 23 44 50
21 o.k.

83 84 78 56 55 58 58 66 95 130
50 34 25 21 5 15 21 31 50

110-Bog. Cribbing - 87'

77 81 75 52 48 50 51 51 52 66 92 126 129 111 116
50 30 24 18 15 3 10 16 24 33 48 60 62 87

Cor.
Top
Crib

81 83 75 56 52 52 53 52 91 114 131 126 111 113 118
50 31 24 19 14 4 14 31 44 52 61 62 66 67

76 86 83 54 53 55 56 56 60 101 99 122 130 125 120 126
50 31 27 19 8 6 14 18 26 36 41 59 60 65 67

Sta.	+	π	-	Elev.
		868.34		
9	+57			62.8
	+70			62.8
10				63.1
	+17			63.3
	+38			63.9
check levels			2.5	.84 865.85 ok. checks

L

E

E

FL 152M

FL 152M

Top
Grid.

75 84 86 89 54 53 55 58 66 108 111 115 132 127 135
51 37 26 26 18 6 15 18 25 25 37 55 64 67

76 83 78 52 53 55 57 61 68 99 115 118 139
50 31 27 21 6 6 15 20 26 40 50 67

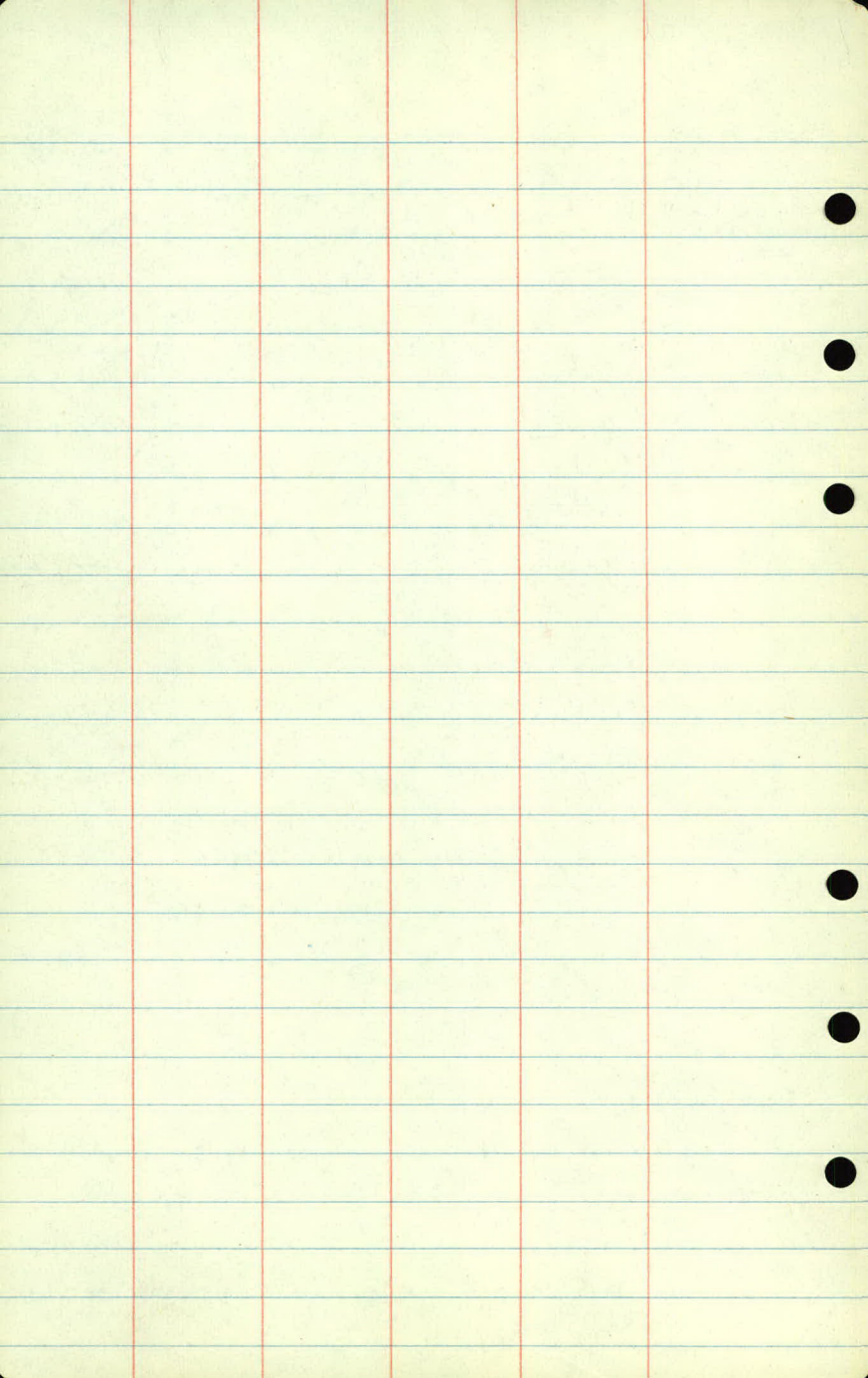
78 80 74 55 51 52 53 61 88 88 113 122 115 122
50 30 27 22 5 5 17 25 35 44 59 64 68

Cor.
Top Grid.

73 74 70 49 48 50 50 57 85 92 102 111 124
50 28 24 19 5 7 21 26 32 38 41 67

133-End Grid.-82

70 68 67 49 44 44 45 52 76 91 93
50 27 22 17 4 8 19 24 36 50



"A2" Arcade St.,
to Keller Pkwy.
Keller Pkwy.
Arcade St. to Co. Rd. "C"

P.W.S.
#587

X Sections

Sta	+	π	-	Elev
B.M.	3.30	902.36		(599.06)
0	+00		3.10	99.3.
	+25			98.2.
	+51			97.4.
	+84			96.5.
1				95.9.
	+24			95.0.
	+37			94.3.
	+39			94.3.

Lt.

E

Et.

Top S. End Conc. Pump Stand at Fill. Sta. N.W. Cor. Arcade + "A"

25	32	37	46	47	56	
50	19	10		9	19	X

(slab)

32	38	42	48		50	59	71	
50	33	23	5			12	26	X

38	42	53	60	59	62	76	90	X
50	33	21	12		7	24	40	

(conc. slab)

39	45	55	65		65	66	71	85	102	X
50	36	22	9			9	15	33	52	

48	53	61	78	74	74	80	84	X
50	37	22	8		7	17	32	

39	53	70	71	82	83	81	Duplicate + 39	X
60	43	21	17	10	6			

FL.)

95	39	53	70	101	81	82	88	81	81	84	88	95	X
18	60	43	21	18	16	10	6		8	16	29	48	

Sta	+	π ✓	-	Elev
		902.36		

1	+70			93.0
---	-----	--	--	------

2				91.6
T.P.	2.83	894.35 ✓	10.84	891.52 ✓

	+10			91.0
--	-----	--	--	------

	+13	F.L. M.H. Lt.		
--	-----	---------------	--	--

	+29			89.9
--	-----	--	--	------

	+65			87.8
--	-----	--	--	------

3				85.9
---	--	--	--	------

	+45			83.8
--	-----	--	--	------

16

8

21

42 72 85 90 109 99 96 94 94 98 101 108 114 X
60 25 23 19 17 13 5 7 16 36 71 84

44 80 101 129 129 112 109 108 109 112 119 118 117 124 X
60 32 17 16 14 12 4 6 15 32 45 71 100

5.5 0.0 1.1 2.2 5.5 5.5 3.9 3.5 3.4 3.5 3.9 4.5 4.2 4.0 4.2 4.6 X
33 24 19 16 14 12 5 6 19 28 30 42 61 100

88.6
5.8
FL.M.H.

FL) 88.6 4
+05 0.4 1.4 2.6 5.2 5.4 4.9 4.6 4.5 4.6 5.0 5.5 5.0 4.7 5.2 7.5 9.5 9.6
50 40 29 21 17 14 12 5 8 15 19 21 28 37 44 46 60

4.0 3.4 4.4 6.4 7.3 7.1 6.7 6.6 6.7 7.1 7.4 6.6 6.7 9.1 9.3 X
60 30 25 19 15 13 6 6 13 16 18 28 33 60

7.0 7.7 7.3 8.2 9.3 9.3 8.5 8.6 8.5 8.8 9.3 8.1 8.3 10.3 10.0 X
60 41 31 21 19 17 15 7 12 17 20 28 34 60

8.5 9.6 10.4 10.2 10.9 10.5 10.7 10.6 10.9 11.1 10.0 10.0 11.4 11.1 X
60 28 25 22 20 17 8 11 15 19 29 32 60

Sta	+	π	-	Elev
		894.35 ✓		
3	+62			83.2 ·
4				81.6 ·
T.P.	1.68	893.25 ✓	12.78	881.57 ✓
	+45			79.6 ·
	+83			78.0 ·
	+85			78.0 ·
5				77.2 ·
	+34			75.6 ·
	+70			73.8 ·

9-7-44

28

LT.

E

PL

10.3 110 124 125 116 114 112 116 121 109 110 124 119 117
60 47 32 24 21 8 11 16 19 29 32 44 60

144 144 146 158 140 131 130 128 132 135 123 125 140 136 111
60 46 31 29 26 24 16 9 11 15 19 29 33 47 60

6.9 7.3 7.0 7.7 4.5 4.9 3.8 3.7 4.0 4.4 3.3 3.4 4.9 4.6 0.0
60 45 31 26 23 15 9 9 14 18 27 32 43 60

Duplicate + 85

FLD
53 56 57 61 47 52 70 76
10 16 18 20 28 33 60

11.3 12.2 12.3 11.0 9.9 14.1 13.9 10.1 8.5 5.8 5.6 5.3 5.6 5.0 4.7 5.2 7.0 7.6
60 53 47 44 34 30 25 21 18 13 9 10 16 20 28 33 60

141 140 128 164
60 43 32 31

15.5 6.7 6.4 6.1 6.4 6.6 7.0 6.0 6.8 7.0 7.3 8.2
24 13 10 9 15 21 23 33 38 46 60

166 161 172 172
60 32 31 28

8.3 7.9 7.7 8.1 8.2 9.1 10.1 10.4
13 10 9 14 29 46 60

13.3 9.9 9.5 9.5 9.7 10.1 9.7 10.1 11.9
17 12 9 10 18 26 36 60

Sta	+	π ✓	-	Elev
		883.25		
6				72.4 ✓
B.M.	7.35	872.62 ✓	17.99	865.26 (865.27)
5	+70			(73.8)
6				(72.4)
	+14			71.7
	+28			71.1
	+65			69.4
7				68.1
	+50			66.6

7-8-44
K.A.
L.G.
C.F.

29

lt.

g

pt

NG

116 109 109 112 114 120 108 110 129 149
14 10 9 12 17 19 27 32 60
Spectrum Arc Light Pole Bl sta. 8+14 Pole # A-53

80 80 78 67
60 49 28 25

+1.2.

X

95 84 82 75
60 43 29 25

+0.2.

X

96 89 87 79 23 14 09 09 12 17 24 35 50 51
60 50 29 26 16 14 10 10 14 19 33 52 60

98 93 96 86 36 21 17 15 1.9 2.1 3.1 78 93 95
60 42 29 26 18 15 10 9 14 23 33 47 60

11.2 105 99 48 36 33 32 36 40 44 102 118 134 141
60 30 25 16 14 10 9 16 19 33 39 50 60

117 116 106 50 46 45 48 56 66 125 136 143 146
60 28 23 15 11 9 17 21 33 39 49 60

122 120 121 114
60 48 27 24

68 62 60 65 72 81 125 145 L.D.
17 11 9 18 21 29 42

X

Sta	+	π ✓	-	Elev.
-----	---	---------	---	-------

872.62

8				65.1 -
---	--	--	--	--------

+50

64.1 -

9				63.4 -
---	--	--	--	--------

+50

63.1 -

+57 For XPrin only

63.2 -

10				63.3 -
----	--	--	--	--------

+50

64.3 -

11				65.9 -
----	--	--	--	--------

Lt.

4

Et.

121 116 120 113 84 76 75 78 83 119 141 146
60 50 27 23 18 12 10 17 27 38 60

123 114 114 116 90 85 86 88 92 133 145 L.O.
60 50 33 23 18 13 14 19 29 46

129 124 128 125 97 93 92 94 99 136 149 L.O.
60 36 27 24 18 13 11 19 29 34

129 129 133 136 135 103 98 95 100 106 141 159 L.O.
60 42 34 31 25 18 11 11 20 28 32

FL7 FL7
128 131 137 141 143 103 98 94 99 106 155 144 147 155 L.O.
60 42 31 24 21 19 11 11 17 19 22 33 37

123 124 126 116 98 94 93 96 99 108 138 146
60 40 25 21 17 11 9 18 22 29 60

113 113
60 37

109 102 90 85 83 88 91 121 137 141
25 19 15 10 9 18 26 32 60

99 96 91 77 69 67 71 72 129 142
60 47 24 19 10 9 18 30 60

Sta.	+	π	-	Elev
		872.62		
11	+45			67.8
B.M.	10.57	875.84	7.35	865.27
	+74			69.0
12				69.9
	+20			70.6
	+45			71.4
	+68			72.1
13				73.3
	+12			73.7

Lt

E

Rt

S.S. 36 78 72 74 71 51 49 54 49 48 52 55 125 142 X
 73 60 45 33 27 21 18 16 9 9 17 32 60
 Spk. 10 P.P. 16 Rt. Sto 2114

S.S. 33 77 78 54 63 70 69 48 72 76 145 166 178 178 X
 63 52 34 29 15 13 8 10 18 31 41 60 70

193 0.2 04 33 52 62 69 45 41 59
 85 56 48 25 20 17 16 13 9

63 68 145 173 177
 10 18 34 54 70

19 49 55 62 55 52 56 59 140 167 177 X
 29 26 16 15 9 10 18 33 49 70

45 46 52 47 44 48 50 128 140 151 16.5 X
 24 16 15 9 11 18 35 41 58 70

26 40 44 39 37 40 50 120 147 158 X
 24 16 15 10 10 19 40 54 70

139 134 102 22 28 36 32 28 25
 31 28 24 20 15 13 12 9

30 43 55 87 125 141 X
 11 23 30 41 55 70

96 23 24 30 25 23 21 26 31 37 47 55 117 13.5 X
 23 17 14 13 11 9 11 15 17 27 34 56 70

Sta	+	π ✓	-	Elev
		875.84		

13	+25			74.1
----	-----	--	--	------

	+40			74.7
--	-----	--	--	------

	+69			75.7
--	-----	--	--	------

	+75			75.8
--	-----	--	--	------

T.P.	20.09	895.93 ✓	0.00	875.84 ✓
------	-------	----------	------	----------

12	+20			70.6
----	-----	--	--	------

	+45			71.4
--	-----	--	--	------

	+68			72.1
--	-----	--	--	------

T.P.	15.80	908.54 ✓	3.19	892.74 ✓
------	-------	----------	------	----------

13				73.3
----	--	--	--	------

Lt. E Et.

+05 11 20 24 19 17 22 26 43 59 107 125
25 21 14 13 9 11 14 24 42 53 70

+25 11 13 13 20 16 11 14 20 39 67 79 111 117
27 21 16 14 13 11 11 16 22 40 56 65 70

+25 11 04 03 01 05 11 17 28 39 92 101
24 19 13 8 11 18 26 28 47 60 70

+23 107 01 01 00 04 12 18 +23 23 62 107
25 18 13 8 11 20 28 33 42 53 70
Not in PR

+27 30 84 147 185 192 (25.3) ✓
120 100 80 62 50 32

Hot Top
+90 +72 03 36 68 115 150 156 (24.5) ✓
157 126 100 87 73 56 52 36

+92 +71 +30 00 35 75 110 113 (23.8) ✓
150 116 100 86 73 58 52 38

3.1 59 13.4 168 17.4 189 (35.2) ✓
150 100 70 66 47 12

Sta. + π - Elev
 908.54

13 +12

± Ent.

(73.7)

+ 25

(74.1)

+ 40

(74.7)

+ 69

(75.7)

+ 75

(75.8)

I.P. 10.79 909.55 9.28 898.76

14

(76.7)

+ 33

(77.9)

+ 66

(79.0)

Lt

E

Et

3A	100	141	15A	16.4	(34.8)
150	100	75	45	43	

✓

0.6	1.4	3.7	8.0	10.0	14.2	17.8	(34.4)
150	122	100	72	60	44	42	

✓

0.6	3.1	5.3	8.7	10.2	11.7	15.7	(33.8)
150	111	92	71	52	46	43	

✓

1.9	2.0	5.3	9.2	10.0	12.3	(32.8)
150	128	88	57	45	44	

✓

1.9	2.0	5.3	8.7	8.5	13.0	(32.7)
150	128	88	57	46	44	

✓

3.8	6.0	7.2	9.0	(32.9)
150	100	75	46	

✓

6.2	6.4	7.0	7.6	(31.7)
150	100	75	48	

✓

5.7	6.0	6.2	6.8	(30.6)
150	100	75	45	

✓

Sta.	+	π	-	Elev
		909.55		

15				(80.0)
----	--	--	--	--------

T.P.	446	909.02	499	904.56
------	-----	--------	-----	--------

+40				(81.0)
-----	--	--	--	--------

+71				(81.6)
-----	--	--	--	--------

+86				(81.9)
-----	--	--	--	--------

16				(82.2)
----	--	--	--	--------

+17				(82.5)
-----	--	--	--	--------

T.P.	630	902.03	13.29	895.73
------	-----	--------	-------	--------

14 +66				(79.0)
--------	--	--	--	--------

15				(80.0)
----	--	--	--	--------

Lt.

E

Rt.

4.9 4.9 5.0 53.93
150 100 75 45 43

(29.6.)

✓

Hub 46.5 Lt sta 15+40

48 42 40 45 57
150 100 75 47 43

(28.0.)

✓

7.7 51 50 56 6.9
150 100 75 47 43

(27.4.)

✓

6.4 62 60 66 72 89
150 100 75 47 43 39

(27.1.)

✓

83 73 70 77 102
143 100 75 44 38

(26.8.)

✓

107 9.0 8.5 8.5 101
150 100 75 42 39

(26.5.)

✓

(23.0.)

9.4 137 203 247 S.S. for
35 36 55 70 25' fca

✓

(22.0.)

107 174 215 Top Gauge
42 64 80

✓

Sta.	+	π	-	Elev.
		902.03		

15 L40

(81.0.)

+71

(81.6.)

+80

(81.9.)

16

(82.2.)

+60

(83.4.)

17

(84.0.)

B.M.

4.05

887.42

1868

883.35

(883.37)

14

76.7.

+33

77.9.

Lt.

E

Et.

(21.0)

103	65	135	198
41	43	71	100

X

(20.4)

82	37	64	125	185
42	44	55	80	100

X

(20.1)

36	53	96	157
49	57	75	100

X

(19.8)

145	113	112	120
31	38	60	100

X

(18.6)

86	68	59	48	101
100	60	41	36	31

X

(18.0)

147	136	118	110	104	88	124
100	68	50	34	34	29	27

X

Spt in P.P. r/sr 16+38

83	100	98	109	108	107	111	114	116	66	87	147
23	18	14	13	9		11	17	27	34	55	75

X

66	78	87	97	98	95	99	101	108	108	98	67	24	64	134
23	19	15	13	9		11	16	21	24	28	32	33	52	72

X

Sta	+	" 88742 π ✓	-	Elev
-----	---	-------------------	---	------

14	+66			79.0.
----	-----	--	--	-------

15				80.0.
----	--	--	--	-------

	+40			81.0.
--	-----	--	--	-------

	+71			81.6.
--	-----	--	--	-------

	+86			81.9.
--	-----	--	--	-------

16				82.2.
----	--	--	--	-------

	+17			82.5.
--	-----	--	--	-------

	+60			83.4.
--	-----	--	--	-------

Lt.

E

Bk

53 73 73 87 87 84 87 90 99 95 85
23 19 15 13 9 11 17 21 25 28

x

32 61 71 79 76 74 77 80 70
25 18 15 14 9 10 17 29

x

17 46 59 62 67 66 64 67 71 66 49
25 19 17 14 13 10 11 15 17 27

x

08 31 49 53 61 60 58 62 66 58 34
27 22 19 14 13 9 11 13 19 27

y

15 34 54 54 59 58 55 60 62 63 56 48
25 21 18 14 14 10 11 13 15 19 26

x

20 48 52 58 55 52 57 60 59 46 36
24 19 15 13 9 11 13 16 19 24

x

30 36 49 53 51 49 53 56 51 45 42 47
24 19 18 13 9 11 14 17 24 43 75

x

27 27 40 44 43 40 43 45 42 42 44
23 21 19 13 8 11 15 17 33 60

x

Sta.	+	π ✓	-	Elev
		887.42		
17				84.0 ✓
B.M.	3.67	887.04 ✓	4.05	883.37 (883.37)
	+38			84.6
	+67			85.0
	+68			85.0
18				85.2
	+41			84.9
	+69			84.5
19				83.7

L

E

R

10 43 41 37 34 36 36 43 49
 22 20 16 9 11 20 41 60

Spl in PP at sta 16+38

x

20 02 103 113 128 128 13 30 30 27 24 27 30 34 39
 60 45 32 32 29 27 24 23 20 8 11 13 37 60

x

37 15 11 02 115 116 10 32 31 28 23 20 24 27 28 31 45
 60 44 32 31 29 24 22 19 16 14 8 11 13 20 38 60

x

37 15 11 00 108 32 31 28 23 20 Duplicate + 67
 60 44 32 30 21 19 16 14 8

x

63 36 26 26 29 26 21 18 22 25 31 51 67
 60 45 31 20 18 15 8 12 14 26 43 60

x

88 73 59 47 33 23 21 24 27 33 44 62 111
 60 36 31 30 17 9 13 17 20 32 46 60

x

103 89 78 39 31 26 25 26 30 35 52 74
 60 29 24 17 14 8 11 16 24 44 60

x

126 121 108 48 40 35
 60 29 24 15 12 8

33 34 37 48 93 107 112
 11 15 18 26 33 60

x

Sta.	+	π ✓	-	Elev.
		887.04		
19	+50			82.3.
20				81.0.
T.P.	3.89	883.92 ✓	7.01	880.03 ✓
	+50			80.4.
+93	FL. 24" X DRAIN			
21				79.8.
	+50			79.4.
22				79.7.
	+50			80.6.

Lh

E

Ch

197 137 109 57 51 47 50 57 125 135 144 135 135
60 34 23 12 8 11 14 27 31 35 38 60

132 131 66 62
60 23 11 7

60 64 70 131 138 144 138 132
11 15 26 32 34 37 60

104 103 102 43 38 35 40 46 90 104 108 104
60 45 22 12 8 11 15 22 32 34 60

72.5
11.4
23.5

72.1
10.8
25.5

10.2 10.1 10.0 49 43
60 33 21 13 8

41 45 50 82 78 9.9 9.7
11 15 22 29 48 60

10.2 10.0 9.8 58 52 49 45 47 51 57 88 102 100 9.7
60 36 21 13 12 8 11 15 17 24 31 50 60

10.0 9.9 9.7 48 44
60 38 22 12 7

42 46 50 87 99 9.6 9.3
11 16 24 31 44 60

94 94 89 38 34 33 36 41 65 80 75 75
60 39 21 11 7 12 17 22 32 46 60

Sta.	+	π ✓	-	Elev
		883.92		
23				82.0 -
+37				83.0 -
+70				83.9 -
I.P.	10.59	894.19 ✓	0.32	883.60 ✓
24				84.9 -
+50				86.4 -
25				87.9 -
+40				89.2 -
+85				90.7 -

Lt.

E

Rt.

82 80 67 26 21
60 37 20 12 7

19 23 27 55 69 52 45
11 16 23 34 38 60

✓

75 74 71 63 17 12 09 13 21 49 62 51 38
60 49 28 22 13 8 12 19 26 32 39 60

✓

70 67 63 51 07 02
60 37 31 21 13 7

00 03 08 46 57 53 48
11 19 27 32 45 60

✓

163 160 153 102 96 93 97 101 142 165 165
60 35 23 14 8 11 17 26 40 60

✓

151 148 138 87 81
60 39 23 12 8

78 82 86 143 175 175 168
12 18 29 46 54 60

✓

128 117 115 81 69 66 63 66 71 129 149 157
60 32 23 16 12 8 11 19 29 43 60

✓

104 96 95 70 56
60 40 29 23 13

52
7

50 52 58 84 109 132
12 20 27 36 60

✓

60 62 50 40 48 58 58 41 39 36 37 40 51 65 77 77
60 31 23 20 16 15 14 13 8 11 18 24 33 47 60

✓

Sta	+	π	-	Elev
		894.19		
26			3.0	91.2
+03				91.4
B.M.	1568	908.80	1.05	893.14 (893.12)
+10				91.6
+10				91.6
+27.75				92.2
+27.75				92.2
+42				92.5
+48				92.6

Lt

E

Bt

1.4 1.9 2.4 3.5 3.0 2.8 3.1 3.1 4.0
60 42 27 18 7 12 19 35 60

B.R. Spk. in Face of Pillar 31' E. of Mont. at "B" + Arcade St.

155 141 173 173 172 175 178 188 188 178 175 155 15.5
60 50 28 10 12 19 21 23 25 32 32 60

Duplicate #10

172 175 178 188 188 178 178 18.2
12 19 21 23 25 30 60

8.1 10.1 12.5 15.1 16.6 16.6 17.1 17.5 17.6 16.4 11.9 11.6 12.5 15.2
200 150 100 50 14 13 15 24 29 33 50 75 100

16.6 17.1 17.5 17.6 15.7 11.9 11.6 12.5 15.2
13 15 24 33 36 50 75 100

150 156 159 163 16.3 16.7 16.7 16.1 12.8 9.6 9.6 10.9 14.4
60 46 28 7 12 20 28 36 38 51 73 100

14.7 15.7 16.1 16.1
60 39 26 7

16.2 16.5 16.8 16.7 14.4 14.4 15.6
13 19 34 49 60 100

Sta	+	π	-	Elev
		908.80 ✓		
26	+54			92.7
	+64			93.0
	+87			93.6
27				94.0 ✓
T.P.	11.04	911.01 ✓	8.83	899.97
	+50			95.2
28				96.6
	+18			97.0
	+30			97.4

Lt.

2

Pt.

14.6 163 161 160
60 39 26 7

141 165 168 157 144 14.4 156
13 19 34 49 60 100

5.6 6.2 11.9 14.2 16.5 16.2 15.9 15.8 16.3 16.4 6.2 7.3 9.1 10.9 ✓
100 70 53 44 23 15 8 12 23 37 59 76 100

4.2 5.1 5.6 14.7 15.9 15.5 15.2 15.5 15.1 7.7 5.2 5.9 7.3 10.0 ✓
100 58 40 24 16 8 14 24 33 34 58 80 100

2.1 3.4 4.1 3.8 15.1 15.1 15.2 14.8 15.2 15.3 14.5 8.0 5.0 5.8 7.1 10.1 ✓
100 84 53 32 21 12 8 14 21 24 33 33 50 70 100

Nail in PP Pt. 5.6 28+100

0.6 2.1 2.0 15.8 16.0 15.9 15.8 16.3 16.3 15.8 5.7 6.7 9.5 12.5 ✓
100 60 33 18 12 7 15 18 23 36 48 69 100

5.5 0.0 0.9 14.0 14.7 14.5 14.4 15.0 14.0 13.0 4.4 5.6 7.9 12.1 ✓
61 33 17 14 7 17 22 27 36 52 66 100

0.0 1.0 13.9 14.2 14.2 14.0 14.9 14.0 12.0 4.1 5.7 8.8 12.8 ✓
100 33 18 15 9 15 21 29 39 55 71 100

1.1 0.9 1.0 12.6 13.5 13.9 13.9 13.6 14.0 13.8 13.5 12.1 10.7 10.3 13.5 ✓
100 57 33 18 16 13 9 15 18 22 42 54 70 100

Sta.	+	π	-	Elev
		944.01		
28 +35				97.5
+40				97.6
+44				97.7
+46				97.8
T.P.	462	904.59	11.04	899.97
+70				98.4
29				98.9
+35				99.4
+70				99.5

9-19-44

42

Lt

E

Rt.

1.5 13 13 132 138 137 135
100 60 33 17 15 9

139 138 135 121 107 103 135
14 18 22 42 54 70 100

15 13 13 130 137 136 134
100 60 33 18 15 9

139 139 132 100 59 81 96 133
14 19 23 30 34 55 66 100

21 2.0 1.8 1.8 129 135 135 133
100 86 67 31 18 15 8

138 139 132 100 59 81 96 133
14 19 23 30 34 55 66 100

21 2.0 1.8 1.8 134 134 132 138 140 119 119 126
100 86 67 31 17 8 13 20 29 42 60

04 415 422 62 67 63 62 68 73 60 67
80 47 27 17 15 8 14 22 32 60

67 50 25 13 58 63 58 57 63 67 62 84 109
60 46 38 24 19 16 8 14 21 29 43 60

99 76 73 60 55 37 61 59 55 52 58 65 83 103
60 42 37 34 33 23 18 14 8 15 22 40 60

117 93 82 73 55 61 58 54
60 37 33 31 22 18 15 8

51 56 59 69 58 54 93 105
13 19 21 23 25 32 40 60

Sta	+	π	-	Elev
		904.59		
30				99.4
+50				99.4
31				99.6
+40				99.7
+75				99.7
T.P.	10.57	910.91	4.75	899.84
32				899.8
+38				900.0
+57				00.0

Lt.

E

et

123 111 95 93 77 67 56 52 58 61 70 58 58 95 109 ✓
 60 44 35 33 26 22 9 14 19 21-23 35 30 40 60

114 112 108 101 81 62 56 52 58 65 76 70 64 102 123 ✓
 60 38 33 26 21 16 9 14 19 22-24 26 31 41 60

85 89 90 89 60 52 50 56 62 110 129 135 ✓
 60 49 36 26 16 8 13 19 29 38 60

48 53 56 64 67 58 52 49 56 61 128 150 159 ✓
 60 44 32 27 21 16 8 14 19 31 40 60

09 0.9 1.8 3.1 5.9 6.1 5.7 5.1 4.9 5.4 6.1 10.9 13.3 14.1 ✓
 75 60 40 30 23 19 16 8 13 19 30 43 60

47 48 55 70 108 117 114 109 106 111 118 140 162 187 ✓
 75 58 45 33 27 28 16 9 13 19 26 43 60

35 36 41 57 110 106 104 109 115 123 111 115 127 ✓
 75 59 49 33 12 9 12 18 19-23 25 36 60

3.1 3.7 48 108 110 106 104 110 114 123 10.1 110 125 ✓
 75 47 34 23 15 9 12 17 19-23 26 38 60

Sta	+	π	-	E/ev
		910.41		

38	+72			00.0
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33				899.9
T.P.	5.28	904.45	11.24	899.17

	+15			99.9
--	-----	--	--	------

	+18			99.9
--	-----	--	--	------

	+30			00.0
--	-----	--	--	------

	+50			99.9
--	-----	--	--	------

34				99.1
----	--	--	--	------

	+40			98.3
--	-----	--	--	------

7-19-44

44

14

E

24

80 85 109 110 106 104 110 114 122 100 105 120 ✓
 60 33 20 14 9 12 17 21-24 25 37 50

90 95 100 108 110 106 105 111 113 121 89 98 104 ✓
 60 33 27 24 15 9 12 18 20-24 27 43 60

Top 5 and ent culr. R+33+

27 35 42 52 51 48 46 50 54 61 61 54 27 30 38 ✓
 60 45 28 20 12 9 11 20 21 22 23 28 45 60

Duplicate +15 46 50 53 40 44 ✓
 11 25 45 60

33 39 46 53 52 50 45 51 52 43 39 ✓
 60 45 27 24 13 9 11 19 37 60

34 43 45 55 56 50 46 52 54 62 61 12 06 13 42 ✓
 60 39 29 25 17 9 12 17 20 24 38 54 75 100

Edge
ent

43 50 57 65 66 61 56 54 58 61 66 63 06 114 124 ✓
 60 42 29 26 21 13 10 12 18 21 24 39 58 76

55 63 71 69 64 62 67 72 77 76 16 07 106 00 ✓
 60 31 26 13 9 11 18 21 23 38 49 66 90

Sta	+	π ✓	-	Elev
		904.45		
34	+65			97.6
	+80			97.4
35				96.8
T.P.	1.79	898.49 ✓	7.75	896.70 ✓
	+35			95.8
	+66			95.2
36				94.3
	+37			93.1
	+65			92.2

Lt

E

Et

65 67 71 85 74 70 69 73 76 81 79 33 25 21
60 48 26 22 19 9 12 17 19 24 39 55 80

74 76 79 82 86 78 74 71 77 79 83 86 84 63
60 45 33 27 22 19 9 14 18 21 28 43 60

80 84 88 90 82 80 76 84 90 105 112 91 85
60 42 30 23 18 10 12 18 25 32 52 60

26 32 35 42 30 28 27 33 36 60 67 60 57
60 40 27 23 19 9 12 16 24 31 51 60

27 28 33 48 35 35 33 37 40 68 74 77 77
60 45 26 24 19 9 19 17 27 30 46 60

03 13 49 61 61 48 44 42 45 47 73 83 77
60 38 26 25 23 19 9 13 18 30 43 60

+48 +27 +08 55 70 70 59 56 54 57 62 85 108 102
87 62 41 27 23 22 18 9 13 17 24 39 60

+61 +24 00 41 73 84 83 69 66 63 67 71 113 126 127
93 70 55 35 27 25 22 17 9 12 17 26 35 60

Sta.	+	π	-	Elev
		898.49		

37				91.0
----	--	--	--	------

	+50			89.1
T.P.	2.26	890.13	10.62	887.87
		900.13		

38				87.5
----	--	--	--	------

	+40			86.2
--	-----	--	--	------

	+60			85.5
--	-----	--	--	------

39				84.3
----	--	--	--	------

	+35			83.7
--	-----	--	--	------

	+44			83.6
--	-----	--	--	------

Lt.

C

Et.

0.0 79 100 108 109 82 77 75 79 83 105 160 156
75 44 29 26 23 18 9 12 15 21 36 60

71 82 110 121 121 98 95 94 97 100 120 179 191 191
60 50 31 25 23 19 10 11 16 22 37 53 60

114 16 35 49 42 27 26 26 28 31 87 97 102
60 32 26 24 20 16 10 11 15 31 39 60

106 21 56 57 42 39 43 44 63 70 79 89 91
60 36 28 18 14 11 15 19 24 32 41 60

125 0.0 13 24 66 61 49 46 50 55 63 69
75 56 47 36 29 17 14 13 27 47 60

1.0 26 70 76 71 63 58 63 66 68 64 55 47
60 40 29 24 18 14 14 18 28 29 41 60

5.5 1.9 23 72 78 77 66 66 64 70 75 71 60 51
60 54 36 31 22 17 13 16 27 28 41 60

67 78 77 66 67 65 71 75 72 65 59
60 40 26 20 15 16 27 38 49 60

Sta.	+	Σ 890.13 900.13	-	Elev.	
39	+70			83.4	.
40			7.1	83.0	.
	+50		7.5	82.6	.
41			7.2	82.9	.
B.M.	3.00	886.69 ✓	6.44	883.69 ✓	(883.69)
+21	Approx 2 ST. H. 36		3.7	83.0	.
	+60		4.2	82.5	.
42			4.3	82.4	.
	+50		4.3	82.4	.

Lt

E

Rt

73 79 64 65 68 67 74 71 71 92 94 76 72 ✓
 60 43 34 31 28 18 20 23 31 43 50 60

Spt. in Arc Light Pole at S.T.N. ³⁶ Lt Arcade

Sta.	+	π ✓	-	Elev.
		886.69		
43				82.2
+50				82.0
44				81.9
+23	Profile of ent. Lk.			82.0
+50				82.1
45				82.3
+05	Profile of X-Drain			X
+19				82.3

7-25-44

48

Lt.

E

Bt.

+119 00 37 54 54 48 45 50 46 61 68 78 88 ✓
 100 57 44 30 24 13 15 19 24 31 50 70

+107 +94 00 50 56 50 48 47 52 55 64 72 80 130 ✓
 100 88 54 35 20 16 10 14 18 23 34 49 60

+103 +96 00 38 51 59 56 47 48 56 67 73 155 207 ✓
 100 91 56 42 30 25 20 14 17 20 35 51 60

+110 +40
 100 65

Bag Conc.

5100

40⁰⁰ 46 47
 25 10

+103 +67 00 32 62 65 59 51 49 46 48 53 69 82 ✓
 100 78 64 45 30 24 20 16 10 10 15 20 26

+89 +80 +37 00 52 73 78 67 48 46 44 49 53 73 119 ✓
 100 90 68 55 37 24 23 20 15 10 11 16 21 26

9785

82
 20

96 227 22.7
 24 40 42

+77 +47 00 32 43 48 45 44 49 54 ✓
 100 64 58 41 32 16 10 11 16

Sta	+	π	-	E/ev
		69 886.59		

45 +60

81.6

+62 FL. 10" CM X Dmin

+75

81.1

+95.82 E Co. Rd "B-2"

80.4

T.P. 1.94 882.40 6.23

880.36

46 +25

79.6

+50

79.0

47

77.8

+50

76.8

7-26-44

49

LT

E

ST

09 33 51 57 54 51 57 63
64 50 33 18 15 10 16

19.7

7.0

23

74.5

12.2

20.5

24 49 50 54 56 62 57
60 45 36 13 10 15

17.3 +47 02 38 53 62 63 68 77
200 150 100 50 25 11 9 15

+0.4 1.9 27 30 28 28 34 40 57 176 19.8 20.8 21.4
60 39 22 20 13 8 16 21 42 54 72 100

+31 0.0 32 33 39 37 34 38 43 52 67 172 173 208 21.7
65 50 33 25 23 12 8 14 17 22 38 45 67 100

+113 +77 5.2 53 48 45 46 50 54 59 147 184 20.0 20.6 21.5
100 78 34 26 13 6 7 8 13 25 33 47 70 100

+12.3 0.7 72 71 61 57 54 56 60 63 68 176 19.1 20.2 21.1
100 58 38 29 24 15 7 5 7 12 27 37 60 100

Sta	+	π	-	Elev
		882.40		

44 +50

(82.1)

45

(82.3)

+19

(82.3)

+60

(81.6)

+75

(81.1)

+95.82

(80.4)

48

76.0

+50

75.2

Lt

E

Et

0.3

13.7 19.1 20.8 21.1
43 58 85 100

0.1

16.6 19.4 19.7 20.5
42 61 72 100

0.1

15.5 19.0 20.2 20.8
38 57 79 100

0.8

13.0 17.6 19.0 21.0
32 52 70 100

1.3

16.5 18.2 20.0 21.0
34 50 70 100

2.0

16.9 18.5 20.0 21.2
37 47 67 100

+8.5 0.3 8.6 8.8 6.9 6.5 6.3 6.4 6.7 7.1 7.7 17.3 19.0 19.7 20.5
100 70 50 28 24 16 5 4 6 11 25 33 57 100

+4.6 5.3 10.2 9.8 7.3 7.0 6.8 7.2 7.3 7.6 8.1 15.8 18.6 19.7 19.9
100 72 51 30 25 18 7 1 3 9 20 44 69 100

Sta	+	π	-	Elev
		882.40		

48	+66 for 12" vit X drain only			75.1
----	------------------------------	--	--	------

49				74.5
----	--	--	--	------

+50				74.2
-----	--	--	--	------

50				73.2
----	--	--	--	------

T.P.	3.65	878.39	7.66	874.74
------	------	--------	------	--------

+50				73.2
-----	--	--	--	------

+113
100

51				73.7
----	--	--	--	------

+50				73.6
-----	--	--	--	------

Lt.

E

Rt.

FL.)

FL.)

9.8 100 123 127 7.9 7.2 9.1 70 7.3 7.7 8.6 15.1 18.5 18.1
50 39 30 31 26 20 19.9 2 8 17 19.4 30

✓

+30 6.7 104 106 8.1 7.6 7.3 7.2 7.6 7.9 8.7 16.3 18.4 18.9 19.7
100 64 52 32 38 21 20 11 2 7 18 36 66 100

✓

2.8 2.6 8.3 100 104 8.6 8.0 7.8 7.6 7.8 8.2 8.2 8.3
00 76 53 44 37 31 25 23 13 6 3 3

14.1 17.7 18.6 19.4
12 41 65 100

✓

7.9 9.5 9.6 8.5 8.1 7.8 7.6 8.0 8.4 8.7 9.2 13.8 16.2 17.7 18.7
45 44 39 33 27 26 16 8 6 2 9 33 65 100

✓

4.4 +4.2
60 100

140 41.0 34 48 42 3.9 3.6 3.4 3.8 4.3 4.6 5.2 6.8 8.4 10.4 12.4 13.7
45 47 42 38 34 29 28 19 10 6 2 5 22 48 73 100

✓

+140 +6.7 +1.8 40 37 36 39 4.3 4.7
100 70 50 40 29 20 11 8

4.8 6.1 9.6 11.9 13.9
8 24 53 77 100

✓

+19.2 +12.2 +7.5 3.2 3.9 4.0 3.8 4.1 4.8 5.0 8.2 12.1 14.0 14.0
100 70 54 41 37 30 20 10 12 30 47 68 100

✓

Sta	+	π	-	Elev.
		878.39		

52				73.2
----	--	--	--	------

	+50			73.4
--	-----	--	--	------

53				73.4
----	--	--	--	------

	+50			73.3
--	-----	--	--	------

	+85			73.2
--	-----	--	--	------

54				73.2
----	--	--	--	------

	+06			73.2
--	-----	--	--	------

B.M.	4.28	875.30	7.34	8710.5	(87102)
------	------	--------	------	--------	---------

	+42			73.0
--	-----	--	--	------

Lt

E

Rt

900.4

+22.0 +160 +103 36 42 41 38 43 52
100 74 57 42 36 29 18 9

55 118 134 144 156
6 26 40 68 100

904.9 N.G.

← D.K.

+26.5 +208 +188 0.0 44 49 43 40 43 47 50 59 90 119 136 139 158
100 80 68 49 41 35 26 16 6 4 11 18 28 46 72 100

903.4

+25.0 +219 +197 90 41 47 47 43 47 50
100 81 67 43 37 29 22 13 3

58 83 128 130 160
15 21 42 70 100

← 897.1 N.G.
← 894.2
← 69

+187 +172 0.0 51 51 47 51 59 65 90 96 130 156 167
100 64 41 36 20 10 1 21 28 38 52 76 100

+5.7 +45 57 5.7 5.5 5.2 49 52 57 63 106 127 16.4
100 63 35 32 30 19 5 3 24 44 56 100

52

+4.9 +35 6.1 62 55 53 51 52 55 58 64 87 109 149 160
100 60 34 28 24 17 6 4 6 23 33 48 72 100

Top side walk at S.E. Cor. Bridge

1.5 1.6 2.1 42 2.1 2.5 22 23 26 30 5.6 7.9 10.9 12.3
60 46 32 30 28 14 4 6 9 25 47 69 100

Sta	+	π	-	Elev
		875.30		

54	+68			72.7
----	-----	--	--	------

55				72.2
----	--	--	--	------

	+31			71.8
--	-----	--	--	------

	+47			71.6
--	-----	--	--	------

	+61	Beg. Bridge		71.4
--	-----	-------------	--	------

	+64		19.2	56.1
--	-----	--	------	------

	+73		20.0	55.3
--	-----	--	------	------

	+79		20.2	55.1
--	-----	--	------	------

Profile of Channel

Lt.

E

Rt.

122 88 7.7 53 34 27 26 31 37 51 89 100 129 134 ✓
 100 60 43 31 19 13 8 11 22 45 66 80 100

140 141 143 84 47 36 33 31 37 43 66 71 121 133 140 ✓
 100 72 46 30 23 15 8 10 12 22 42 57 70 100

Water)

Water)

16.6 13.1 11.1 4.2 38 35 39 41 4.2 8.5 12.6 14.0 16.7 ✓
 62 39 26 15 11 9 11 17 29 47 72 93

Water)

Water)

16.7 14.8 43 39 37 4.2 43 134 15.5 16.7 ✓
 41 31 16 11 9 14 30 40 56

180 17.0 0.2 4.1 41 39 43 43 0.2 0.2 17.8 17.7 ✓
 39 158 158-148 14.8 10 10 148 148-158 158 50

Water Surface 858.60 } WSB
 L. Imp. Reading 858.50 }

Sta	+	π	-	Elev
		875.30		

56 +0275 End Bridge

70.9

+15

70.7

+37

70.0

+65

68.8

57

67.4

+25

66.6

+50

65.9

+75

65.1

Lt.

E

Rt.

18.7 166 04 04 48 46 48 44 43 44 0.2 0.2 169 16.9 ✓
 40 158 158 148 148 10 10 10 148 148 158 158 60

16.7 14.5 5.4 46 47 51 12.6 12.5 12.6 ✓
 38 27 15 10 16 38 76 100

16.7 16.0 12.3 5.8 5.3 5.4 5.8 70 11.0 11.6 11.6 ✓
 42 35 32 16 10 19 29 35 42 60

16.7 14.9 13.9 12.9 2.4 6.5 6.2 6.3 7.6 7.9 9.0 ✓
 50 45 39 30 15 11 17 32 42 60

16.7 15.0 14.4 10.3 8.9 7.9 7.6 7.7 8.1 8.7 ✓
 51 48 29 20 14 11 33 52 75

16.7 15.0 14.0 10.6 9.8 8.7 8.4 8.4 8.8 8.3 ✓
 50 47 26 17 14 11 29 41 60

16.7 14.7 13.9 11.2 10.2 9.4 9.2 9.3 9.1 8.7 5.0 3.1 ✓
 50 46 26 17 14 11 23 34 43 57 75

16.7 14.6 13.8 11.1 10.2 10.4 10.5 10.4 9.5 2.3 1.2 ✓
 50 43 26 16 11 15 26 36 66 75

Sta	+	π	-	Elev
		875.30		

58				64.3
----	--	--	--	------

+50				63.0
-----	--	--	--	------

59				62.1
----	--	--	--	------

+22				62.0
-----	--	--	--	------

+54				61.9
-----	--	--	--	------

+90				62.3
-----	--	--	--	------

60				62.5
----	--	--	--	------

I.P.	5.77	869.26	11.81	863.49
------	------	--------	-------	--------

+50				63.3
-----	--	--	--	------

9-26-44

55

Lt.

±

Rt.

✓

16.7	13.2	12.6	14.0	12.0	11.5	11.0	11.2	11.6	12.5	12.2	9.2	7.5
50	46	37	24	15	11		8	14	21	30	52	60

Water

✓

16.7	15.4	15.4	15.0	13.0	12.3	12.4	12.7	14.2	14.8	13.2	12.5
45	43	30	18	12		10	15	24	36	54	60

✓

16.7	15.7	15.7	15.2	13.4	13.2	13.0	12.3	14.0	15.6	15.0	13.5
37	36	24	16	5		6	18	24	31	52	60

Fl. 15"

Fl. 15"

✓

18.0	17.9	16.7	16.0	15.8	15.2	13.6	13.3	13.2	13.6	13.8	16.2	15.5	15.0
50	45	33	31	22	14	5		4	19	21	31	40	60

✓

16.7	16.0	16.0	15.6	13.6	13.4	13.1	13.2	13.8	15.8	15.3
36	35	23	13	4		8	16	22	32	60

✓

11.6
20

16.7	15.2	14.6	14.4	13.2	13.0	12.6	12.6	12.8	15.4	14.7	12.8
45	42	34	9	2		8	11	21	33	43	44

✓

16.7	15.0	14.4	14.2	12.8	12.4	12.5	12.6	15.1	15.1	12.8	11.6
48	45	31	10		9	17	25	32	36	39	60

Nail in P.P. at sta 60+

Water

✓

10.7	8.6	7.9	7.6	6.6	6.0	5.5	5.7	6.0	8.5	7.0	5.2
43	42	29	11	3		9	19	23	33	45	60

Sta	+	π ✓	-	Elev.
-----	---	---------	---	-------

869.26

61

63.3

+43

63.4

+72

+72

63.6

62

63.6

+33

63.7

+68

63.6

7-27-44

56

Lt.

E

Pt.

Water?

10.7 9.0 78 73 61 60 55 52 53 56 63 61 47 16
 48 47 23 7 2 2 10 20 26 28 32 35 48

+5.0 +4.9 +2.7
 100 93 71

10.7 86 78 71 59 59 54 50 53 56 40 57 0.0
 47 45 24 6 2 3 12 22 26 29 33 41

+7.9 +6.7 +5.4
 100 58 52

10.7 80 75 68 57 57 53 49 52 56 54 +53 +72 +81
 43 41 21 5 1 3 13 23 25 32 52 66 100

10.7 80 71 70 57 52 48 53 54 +57 +90 +102 +102
 41 38 20 4 4 14 25 34 53 64 76 100

10.7 7.7 73 70 56 54 51 47 51 50 +65 +95 +113
 40 36 21 6 4 14 24 33 57 67 82

Water?

10.7 84 76 70 57 56 50 46 49 46 +50 +97 +114
 44 42 29 8 3.5 14 23 32 51 67 90

Sta.	+	π ✓	-	Elev.
		869.26		

63				64.0 .
----	--	--	--	--------

+16				64.0 .
-----	--	--	--	--------

+37				64.0 .
-----	--	--	--	--------

+42				64.0 .
-----	--	--	--	--------

+65				64.1 .
-----	--	--	--	--------

64				64.2 .
----	--	--	--	--------

T.P.	646	871.10 ✓	462	864.64 ✓
------	-----	----------	-----	----------

Lt.

d

Pt.

Water

10.7 83 76 74 69 53 53 48 45 48 46 +1.0 +1.5
 43 42 33 22 7 2 4 12 22 33 41 58

+93 +7.3 +4.8
 100 76 60

10.7 77 78 70 53 49 45 45 36 14 +0.2 +2.3
 42 38 20 9 3 11 20 32 37 53 56

+78 +59
 100 77

10.7 77 78 71 55 53 49 45 45 36 28 +0.6 +5.1
 42 38 22 10 2 2 10 19 34 43 63 100

10.7 78 78 68 55 53 50 45 43 36 00 +4.7 H21 H27
 42 38 22 9 2 2 11 22 37 44 56 68 100

10.7 79 78 70 55 52 46 43 28 +7.3 +12.2 +14.6
 45 41 24 8 2 10 22 38 65 71 100

12.7 76 76 6.7 53 51 48 45 47 49 29 0.5 +4.4 +11.8 +12.2
 46 42 22 6 2 2 11 22 37 40 51 62 67 78
 +14.8
 100

Sta.	+	π ✓	-	Elev
		871.10		

64	+50			64.4
----	-----	--	--	------

65				64.7
----	--	--	--	------

	+50			65.3
--	-----	--	--	------

66				65.7
----	--	--	--	------

	+33			66.0
--	-----	--	--	------

	+35			66.0
--	-----	--	--	------

	+45			66.1
--	-----	--	--	------

	+50			66.1
--	-----	--	--	------

Lt.

E

Et.

125 95 96 92 80 67 67 64 60 64 72 71 57 145 1100 1104 1131
52 48 33 17.5 1 2 12 22 32 35 42 60 66 80 100

125 100 98 90 82 65 64 58 62 64 67 48.1 16 48.6 49.3 1120
61 61 57 30 7 2 10 22 27 29 33 41 57 63 76 100

125 101 94 85 80 62 61 58 55 59 64 66 52 2.1 173 184 111.8
79 76 54 29 11 5 3 8 18 25 34 38 52 60 75 100

125 102 95 87 81 74 59 56 54 53 56 59 52 33 131 167 179 112.1
88 85 75 52 22 13 8 4 7 16 22 33 41 53 57 71 100

125 106 94 83 77 58 54 51 50 51 51 61 52 45 110 163 168 1119
90 87 74 43 15 10 6 4 15 25 27 28 37 47 53 77 100

125 106 94 83 77 58 54 51 50 51 36 18 18.1 110.3
90 87 74 43 15 10 6 4 15 33 38 83 100

125 105 94 84 79 58 54 50 50 50 42 18 18.1 110.3
90 87 71 49 18 9 6 3 14 27 38 83 100

Duplicate +45

50 52 52 58 59 50 12.8 16.7 19.1 112.7
14 18 21 28 34 47 60 77 100

Sta	+	π ✓	-	Elev
		871.10		
67				66.4
+50				66.6
68				66.6
+50				66.3
B.M.	467	868.95 ✓	679	864.31 ✓ (864.28)
69				66.0
+14	Profile of ent. at Rt.			65.9
+33				65.8
+70				65.5

Lt.

C

Rt.

Water)

125 103 98 85 69 53 51 47 50 53 43 16 +5.9 +78 +12.5 ✓
 90 87 73 47 19 11 7 13 22 31 40 49 60 100

125 103 93 78 72 51
 90 88 69 49 22 12

45 49 55 58 51 +5.6 +78 +137 ✓
 12 17 25 31 45 58 100

125 99 91 83 72 64 51 48 45 50 54 67 65 52 +4.1 +5.7 +18.3 ✓
 92 90 79 58 41 22 13 8 12 16 21 24 29 41 51 100

58.6

Edge
Cone Ent. ✓

125 98 89 77 69 56 51 48 52 58 67 67 56 +10 +77 +87.2 ✓
 96 93 76 51 22 14 9 11 18 22 24 30 36 57 92

Top Conc. Footing at Cor. Fe. Post 33 1/4 sta 68+92

53 47 47 46 36 33 30 32 36 39 40 15 00 +12 +2.8 +7.1 ✓
 60 33 30 16 12 9 10 13 19 30 33 45 59 73 100
 (conc drive)

31 34 36 24 +0.5 ✓
 10 13 33 58
 Conc. Slab

61 51 45 43 45 37 34 32 36 40 45 42 33 25 ✓
 60 45 32 22 16 13 9 10 13 21 27 47 60

65 60 52 45 48 53 43 38 35 39 44 46 53 53 47 ✓
 60 50 43 32 19 16 13 9 10 13 17 22 34 60

Sta	+	π ✓	-	Elev.
		868.95		

70				65.3
----	--	--	--	------

	+09	2-12" Dredge Pipe X Drain		65.2
--	-----	---------------------------	--	------

	+40	F.L. 18" Vif.		
--	-----	---------------	--	--

	+50			64.8
--	-----	--	--	------

71				64.4
----	--	--	--	------

	+50			63.8
--	-----	--	--	------

72				63.3
----	--	--	--	------

	+50			62.8
--	-----	--	--	------

Lt

Q

Rt

6.0 58 54 49 57 45 41 37 42 46 57 70 7.0 6.8
60 49 32 20 18-16 13 10 11 15 18 26 37 60

✓

FL)

✓ FL)

8.2 6.0 54 54 58 47 42 38 43 46 57 75 76 7.7
18 60 32 21 20-18 14 10 11 15 18 22 28 60

7.8
22

58.6

59.9

10.4

9.1

outlet end drains to lake

22

6.2 6.7 6.9 5.9 6.7 6.7 5.1 4.7 4.2 4.6 5.0 8.9 9.0 9.1
60 34 25 21 18 17 14 10 10 14 23 39 60

✓

6.8 7.2 7.7 7.0 7.8 5.1 5.0 4.6 5.0 5.3 8.2 9.3 9.7 9.6
60 31 27 21 17 14 10 10 13 19 22 32 60

✓

7.8 7.0 6.8 7.4 7.4 6.0 5.4 5.2 5.6 6.1 6.9 8.7 9.5 9.5
60 33 23 19 17 13 10 10 14 19 25 38 60

✓

7.8 8.1 7.2 6.8 7.5 6.6 6.2 5.7 6.2 6.7 7.5 9.7 9.5
60 46 31 20 18-16 14 10 10 15 22 33 60

✓

8.0 8.3 7.6 8.5 7.2 6.7 6.2 6.6 6.9 7.5 8.8 9.6 10.8
60 32 21 19-17 14 10 9 11 19 30 36 60

✓

Sta	+	π ✓	-	Elev
		868.95		
73				62.9 ✓
I.P.	5.71	868.87 ✓	5.79	863.16 ✓
	+50			63.5
74				64.2
	+50			64.5
75				64.4
	+50			63.8
	+83	FL. 18" CM X Drain		
76				64.0

L.

E

R.

81 77 75 81 70 66 61 64 68 75 94 95
60 32 22 19-17 13 10 9 11 18 35 60

79 76 78 69 78 61 57 54 58 60 62 72 91 97
60 43 32 22 20-17 12 9 8 10 14 20 29 60

76 73 75 74 56 50 47 50 53 91 91
60 43 33 17 13 10 9 13 23 60

76 68 68 73 53 48 44 47 51 86 84 88
60 44 33 21-17 12 10 9 13 25 34 60

80 78 77 72 74 58 50 45 48 54 88 86 84
60 46 33 22 19-16 13 10 9 13 22 43 60

83 85 85 80 60 56 51 53 57 89 90 88
60 43 33 17 12 10 9 12 21 33 60

60.4

8.5
15

60.6

8.3
16

75 76 84 77 74 54 49 53 54 85 87 85
60 50 34 25 16 11 10 13 20 36 60

Sta	+	π ✓	-	Elev
		868.57		

76	+46			648
----	-----	--	--	-----

	+53			649
--	-----	--	--	-----

	+75			653
I.P	6.76	873.09 ✓	2.54	866.33 ✓

77				65.7
----	--	--	--	------

	+12			65.9
--	-----	--	--	------

	+60			66.7
--	-----	--	--	------

78				67.7
----	--	--	--	------

	+25			68.5
--	-----	--	--	------

9-27-44

62

Lt

E

Rt

77 77 72 68 70 48 46 41 43 47 65 71 70
60 45 33 23 17 13 8 10 16 20 31 60

66 65 47 43 40 42 43
60 27 23 8 10 16

40 34
40 60

58 64 63 45 39 36 37 42 46 51 45 38 30 105
60 32 21 16 9 11 14 21 25 34 49 67 83

Top M.C.

93 99 96 102 83 77 74 77 82 83 86 59 54 22 +27 +38
60 39 30 27 10 8 11 13 21 23 30 45 62 80 100

88 97 94 95 102 76 72 76 80 81 54 39 15 144 465
60 39 31 24 10 8 12 13 25 30 45 56 85 100

83 88 98 95 88 77 66 64 68 71 69 43 28 00 +86
83 69 54 39 32 10 8 12 13 23 28 46 64 100

Water

146 130 80 82 82 78 65 55 54 57 60 58 31 10 +21 +184
92 78 54 45 37 27 17 9 10 13 20 23 45 64 100

146 123 82 80 59 54 48 46 51 53 40 11 48 +58 +104
80 63 47 41 19 17 10 11 16 21 25 48 74 100

Sta.	+	π ✓	-	Elev
		872.09		

78 +50				69.3 ✓
B.M.	12.74	879.07 ✓	676	866.33

+75				70.3
-----	--	--	--	------

79				71.3
----	--	--	--	------

+25				72.3
-----	--	--	--	------

+43				72.9
-----	--	--	--	------

+59				73.4
-----	--	--	--	------

+75.65	Pt. D to Line			73.8
--------	---------------	--	--	------

B.M.		693	872.14 ✓	(872.12)
------	--	-----	----------	----------

7-28-44

63

lt

e

rt

Water)

146	130	84	57	46	40	38	43	44	31	+31	+56	+79	+109
67	52	36	22	13	11	10	15	18	25	51	75	100	

Water)

204	188	121	104	94	91	88	91	95	+15	+29	+40	+64
57	39	29	22	14	12	9	15	30	51	78	100	

204	187	84	80	78	81	81	57	+19	+09	+39
56	39	24	10	9	15	19	34	68	100	

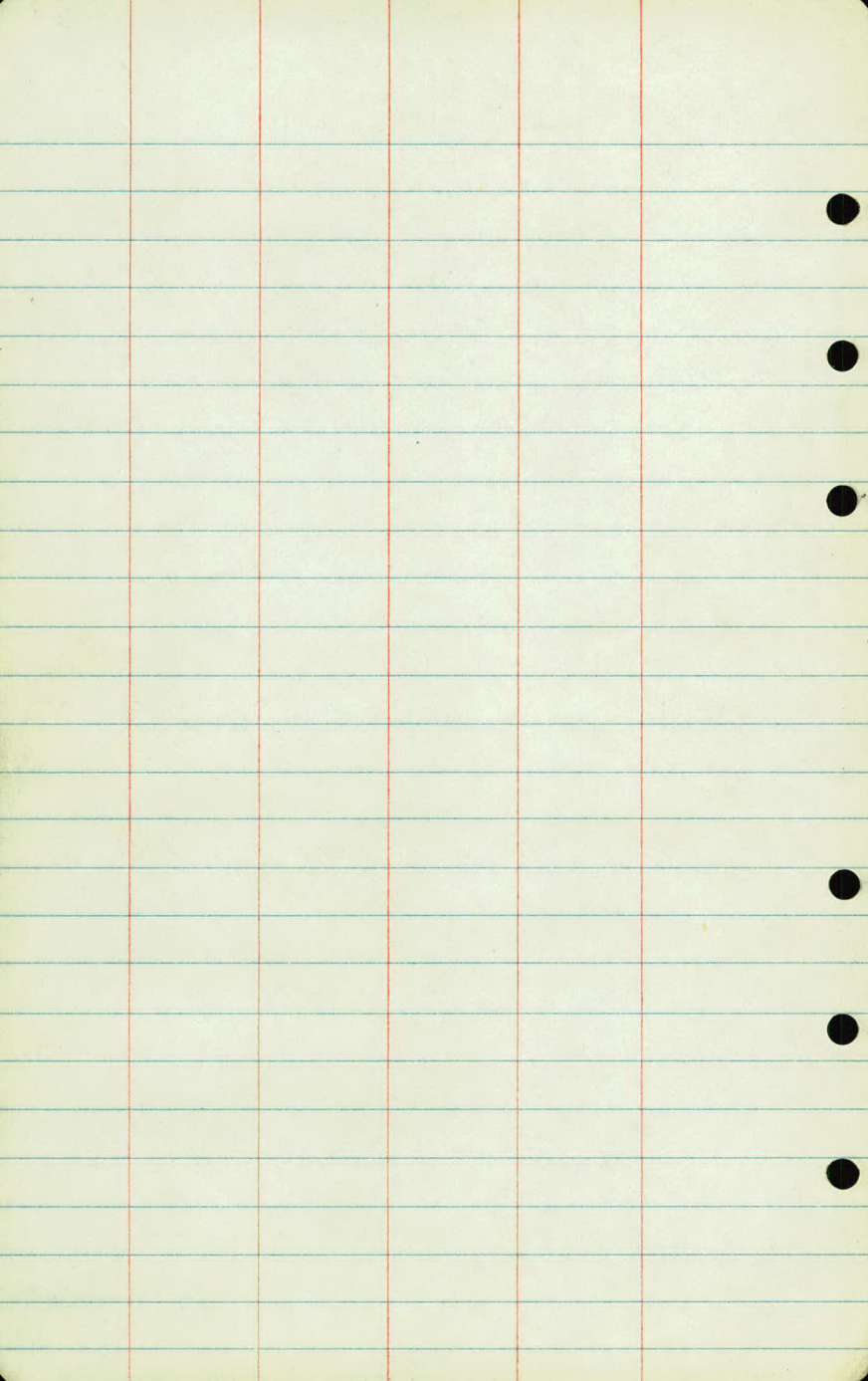
204	192	76	70	68	71	72	52	39	05	05	05
54	37	18	10	10	15	19	30	40	65	100	

204	190	156	74	66	62	67	69	46	37	00	03	07
53	38	30	18	10	15	19	23	37	45	70	100	

204	185	64	60	57	58	60	68	46	51	46	00	00
53	32	14	8	8	17	27	30	36	45	53	100	

204	190	166	59	56	53	53	54	58	61	62	00	+05
58	40	31	14	11	15	34	52	56	74	92	100	

Spk. in 18" Tw Elm SW Cor "C" + Arady St.



2-20-45

A.B.
C.F.
C.N.

Arcade St.
Borrow Pit.

X Sections

Sta.	+	H.I.	-	Elev.
B.M.	13.77	884.79		871.02
T.P.	13.11	896.75	1.15	883.64
✓	11.51	907.35	0.91	895.84
✓	13.11	920.01	0.45	906.90
52+00				(73.2)
T.P.			7.17	912.84
+50				(73.4)
53+00				(73.4)
T.P.	1.55	908.16	13.40	906.61
+50				(73.3)
T.P.	1.00	895.58	13.58	894.58
✓	2.79	884.79	13.58	882.00
B.M.			13.78	871.01 871.02

Top of S.W. @ S.E. Cor Bridge

51+85 F.C. - Fence Runs West & North $\frac{1}{4}$

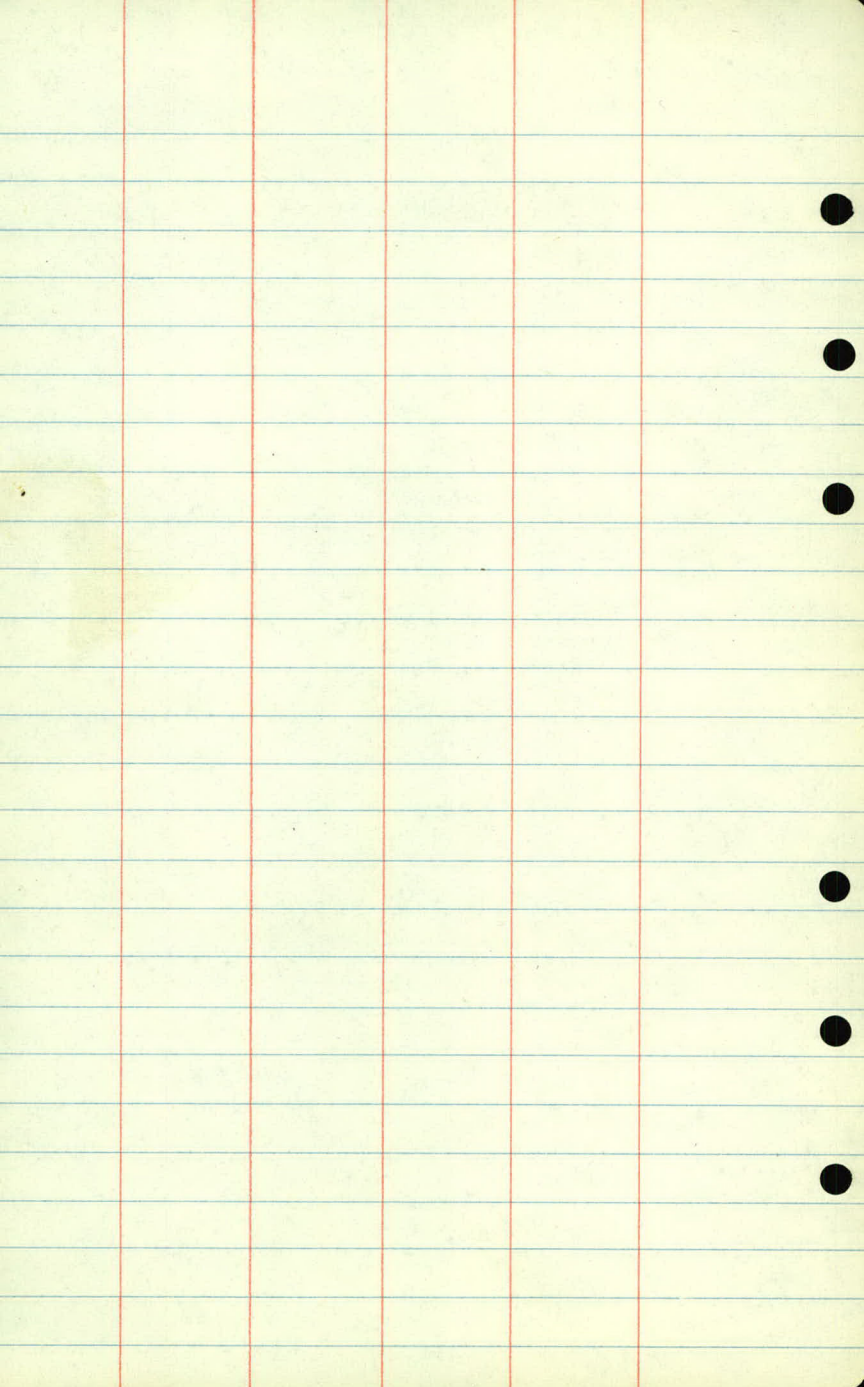
Mus.	$\frac{+3.5}{297}$	$\frac{+3.5}{275}$	$\frac{+1.6}{243}$	$\frac{+1.0}{228}$	$\frac{1.4}{200}$	$\frac{5.7}{171}$	$\frac{9.0}{150}$	$\frac{16.2}{119}$	$\frac{19.8}{100}$	$\checkmark$ $\frac{46.8}{900.2}$
Fence										

Nail In 24" Oak 140' Lt 52+00

Fence	$\frac{+2.2}{300}$	$\frac{+2.4}{251}$	$\frac{+1.3}{226}$	$\frac{0.4}{200}$	$\frac{2.3}{179}$	$\frac{6.2}{153}$	$\frac{12.1}{127}$	$\frac{18.0}{100}$	$\checkmark$ $\frac{46.6}{902.0}$
-------	--------------------	--------------------	--------------------	-------------------	-------------------	-------------------	--------------------	--------------------	-----------------------------------

Fence	$\frac{1.0}{312}$	$\frac{0.8}{283}$	$\frac{1.4}{256}$	$\frac{3.6}{226}$	$\frac{6.1}{200}$	$\frac{9.9}{159}$	$\frac{12.4}{125}$	$\frac{16.3}{100}$	$\checkmark$ $\frac{46.6}{903.7}$
-------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	--------------------	--------------------	-----------------------------------

Fence	$\frac{2.5}{332}$	$\frac{4.4}{300}$	$\frac{5.0}{264}$	$\frac{8.0}{230}$	$\frac{11.1}{200}$	$\frac{12.7}{181}$	$\frac{13.3}{154}$	$\frac{12.6}{121}$	$\frac{13.0}{100}$	$\checkmark$ $\frac{34.9}{895.2}$
-------	-------------------	-------------------	-------------------	-------------------	--------------------	--------------------	--------------------	--------------------	--------------------	-----------------------------------



ArCADE St.
Soundings

5 pages

12-18-44
K.H.
C.F.
C.N.
+20°

Sta. 70+50

25' Et

Feet	Material
0 - 1'	Top Soil
1' - 3.5	Peet
3.5 -	Yellow Clay

Sta. 70+50

25' Et

0 - 0.5'	Top Soil
0.5' - 3'	Peet
3' -	Yellow Clay

2

1

Feet	Material
Sta 71+00	25' Rt
0' - 2'	Mixed Top Soil
2' - 6'	Peet
6 -	Blue clay

Sta 71+00	25' Lt
0' - 2'	Light soil (Peet or Vegetation)
2' - 5'	Peet
5' -	Yellow clay

Feet	Material
Sta 72+00	30' Et.
0'-1'	Clay
1'-10'	peet
10'-	clay - blue

Sta 72+00	25' Lt.
0'-3.5'	Clay mixed material
3.5'-8.8'	peet
8.8'-	sand

Feet	Material
Sta. 73+00	35' Bt.
0' - 1'	Clay
1' - 11'	Peet
11' -	Blue clay

Sta 73+00	25' Lt.
0 - 2'	Clay & mixture
2' - 3'	Peet
3' - 5'	Clay
5' - 10.5'	Peet
10.5 -	Blue clay

Feet	Material
sta 74+00	25' Et.
0-4'	Peet
4'-	Blue clay

sta 74+00	25' Et.
0-2'	Mixed
2-4'	Peet
4'-	Sand

	Feet	Material
Sta. 75+00	25' ct	
	0'-2'	Peet
	2'-	sand

Sta. 75+00	25' Lt	
------------	--------	--

0'-2'	Sandy clay
2'-4'	Peet
4'-	Sand

12-14-44

Feet	Material
sta 75+50 25' Et	
0'-15	clay
15'-9'	Peet
9' -	Blue clay & sand

sta 75+50	
0'-11'	Peet
11' -	Blue clay & sand

12-13-44

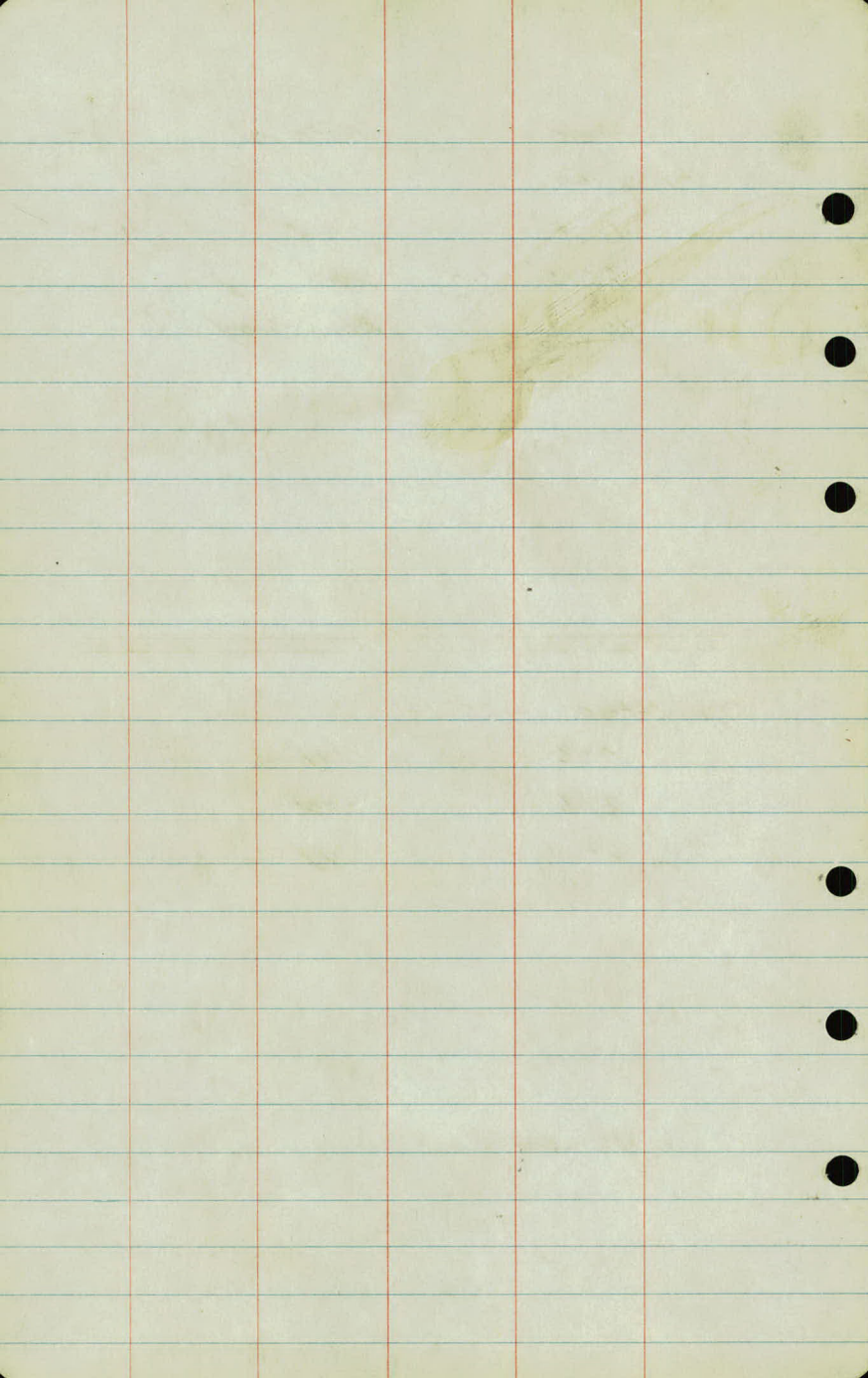
4

Feet	Material
Sta 76+00	22' Pt.
0'-6'	Peet
6'-10'	Black clay
10'	Blue clay

Sta 76+00 25' Lt.

0'-2'	clay
2'-6'	peet
6'	clay

+50 = End peet.



PLAN SURVEY
ARCADE ST.

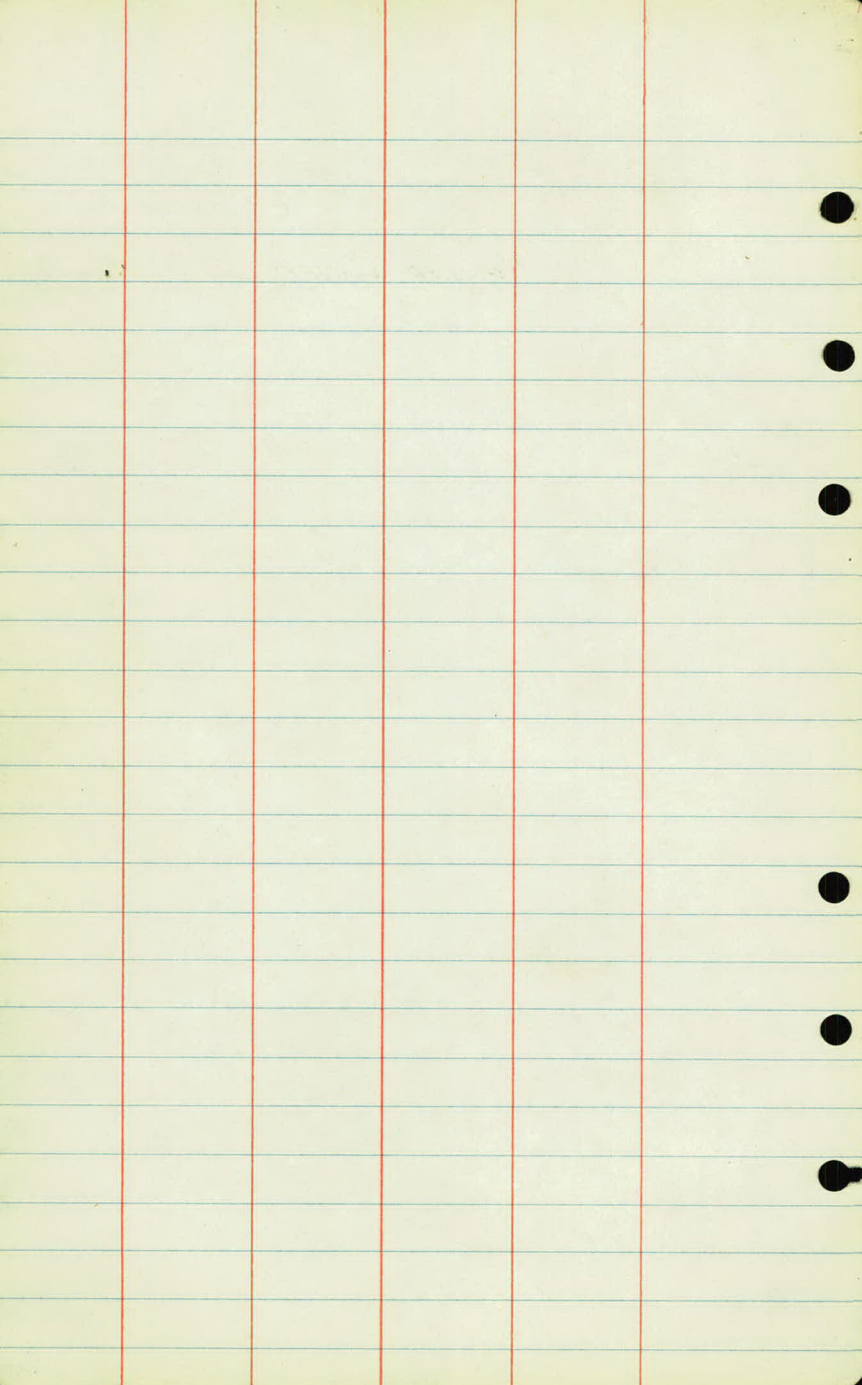
Co. Rd. "C" to La Bore Rd.

INDEX

Align - 1-5

Topog. - 6-12

XSections - 13-



1
Alignment

Co. Rd. "C" to La Bore Rd.

Sta	Point	ΔLt	ΔRt
+59.27	P.T.		4°00'5"
+50			3°41'8" Δ -8°01'+
85			2°40.5" D-4°30'
+70.36	P.I.		T-89.24
+50			1°33" L-178.15'
84			0°25.5" R-1273.57
83+81.12	P.C.		0°00'

+24.94	P.T.		6°29'
83			5°29' Δ -12°58'
+50			3°29' D-8°—
52+44.31	P.I.		T-81.45
82			1°29' L-162.08'
81+62.86	P.C.		0°00' R-716.78

79+75.85 P.O.T = E Co Rd. "C"

NORTH STAR CONCRETE COMPANY

COUNTY ROAD 42 - APPLE VALLEY

ROSEMOUNT • MINNESOTA • 55068 • DIAL 612 • 432 • 6050

JOHN E. HOPKINS 926-8662 • L. W. "BILL" MAKENS 735-5000



12-17-46
K.A.
M.B.
J. Fitz.

+30° Cold + Windy

2

12" Ash ③ 21.40 45.25' 0 P.P.
56.55' Boat Spk.

16" Linden ③

12" Linden ③ 20.65' 40.27' 0 P.P.

Boat Spk.

15" Linden ③ 37.08'

Sta	Point	ΔL	ΔR
+61.71	P.T.	$19^{\circ}28' \frac{1}{4}$	
+50		$18^{\circ}36'$	
92		$19^{\circ}43.5'$	$\Delta-39^{\circ}56' \frac{1}{2}$
+50		$10^{\circ}51'$	$D-15^{\circ}30'$
+41.59	P.I.		$T-131.08'$
91		$6^{\circ}58.5'$	$L-251.21'$
+50		$3^{\circ}06' \frac{1}{2}$	$R-370.78'$
90+10.50	P.C.	$0^{\circ}00'$	
+63.07	P.T.	$8^{\circ}02'$	$\Delta-16^{\circ}04'$
+50		$7^{\circ}11'$	$D-13^{\circ}-$
+01.82	P.I.		$T-62.33'$
89		$3^{\circ}56'$	$L-123.58'$
+50		$0^{\circ}41'$	$R-$
88+39.49	P.C.	$0^{\circ}00'$	
+92.40	P.T.	$2^{\circ}30'$	$\Delta-5^{\circ}00'$
+50		$1^{\circ}39'$	$D-4^{\circ}-$
+30.15	P.I.		$T-62.55'$
87		$0^{\circ}39'$	$L-125.00'$
86+67.62	P.C.	$0^{\circ}00'$	

16-18-46

+2 to 10° Cold + Windy

3

97 + 41.58
1 31.08
90 + 10.50
2 + 51.21
1.7

20° 00'

34.92'

P.R. Spk.

51.02'

40.86'

24° Elm

Cor.
Bldg.

P.P.

67.24'

24° Willow 31.09'

P.R. Spk.

66.38'

N.W. Cor. of West
Bridge Rail

S.W. Cor. of East
Bride Rail

24° Cott. 3

20.62'

P.R. Spk.

10.52'

36° Cott.

Sta	Point	ΔL	ΔP
-----	-------	------------	------------

+53.94	P.T.		18°05'
--------	------	--	--------

+25			15°15'
-----	--	--	--------

100			12°45'
-----	--	--	--------

+75			10°15'
-----	--	--	--------

+67.09	P.I.		T-94.07'
--------	------	--	----------

+50			7°45'
-----	--	--	-------

+25			5°15'
-----	--	--	-------

99			2°45'
----	--	--	-------

98 +73.02	P.C.		0°00'
-----------	------	--	-------

+17.21	P.T.		20°43'
--------	------	--	--------

96			19°41'2"
----	--	--	----------

+50			16°36'
-----	--	--	--------

95			13°31'
----	--	--	--------

+57.30	P.I.		T-176.04'
--------	------	--	-----------

+50			10°26'
-----	--	--	--------

94			7°21'
----	--	--	-------

+50			4°16'
-----	--	--	-------

93			1°11.2'
----	--	--	---------

92 +81.26	P.C.		0°00'
-----------	------	--	-------

12-19-46 +25° Windy A.M.
K.A.
M.B.
J. Filiz.

4

18" Oak 3
15" Oak 3
23.54' 48.50' 3

Boat Spt.

71.31

18" Linden

18" B.E.
27.34' 3
18" Oak 3 55.13' 11.18' 3 12" B.E. Boat Spt.
24.96' 3 15" B.E.

Sta Point ΔLt ΔRt

114+52.93 = E La Bore Rd.

110+60.99 P.I.

0°05'

+23.43 P.T.

10°28 $\frac{1}{4}$ '

105.

8°59' Δ -20°56 $\frac{1}{2}$ '

+50

5°44' D-13° -

+43.96 P.I.

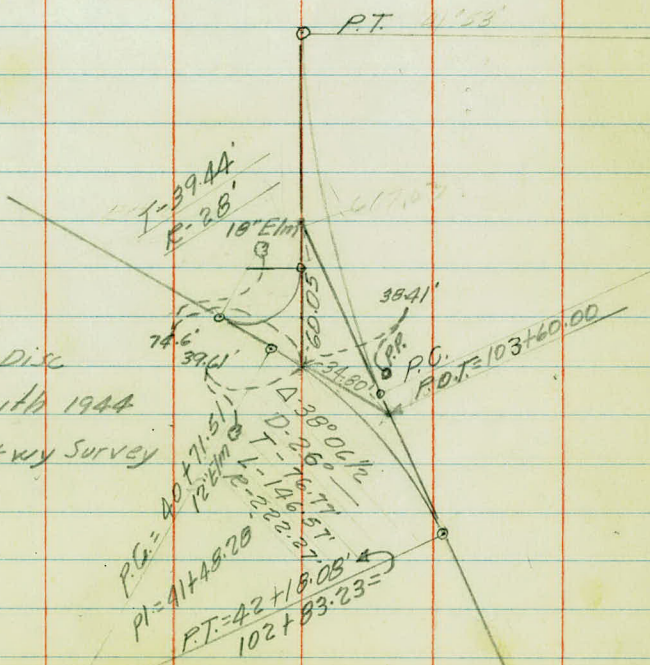
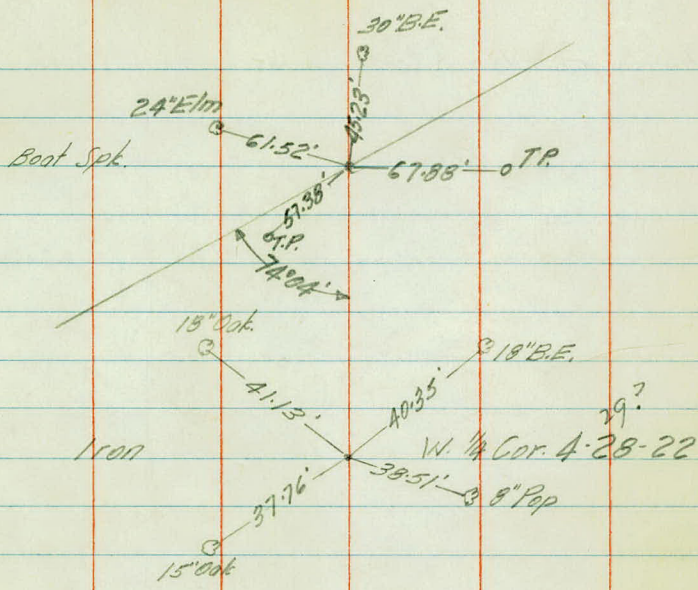
T-81.62'

104

2°29' L-161.09'

103+62.34 P.C.

0°00' R-



Sta.	Point	ΔL_t	ΔR_t
------	-------	--------------	--------------

Topography

1-7-41

LAKE

GEARVAIS

No cable

First Rail 8' Wide

Trees

Scattered

60. Rd. "C"

37'
1 1/2 SF

52'
22' 1 1/2 SF
14

7

+99-T.L.-14'

+30-PR-15' +33-PR-25'

11' 10' +66-Ed. 46'

+23-T.L.-17'

+42-Ed-42-Kingatic-+24'

92 Lake-42'

12' 10'

+20-16'0. +24-PR-48'

+05-SP-25' +12-15Eh-21'

+86-T.L.-15'

+82-8Tw. 0-21'

+95 Cor. Shed - 26'

+11-PR-12' +16-8Tw. 0-20'

+70 Cor. Shed - 36'

+27-15'0-15' +20-15'0-20'

+50-Lake-58'

10' 10' +50-Fc. Cor-51'

+07-Bay Dock-50' +16-Ragetic

91 Lake-55'

10' 8'

+15-NW Cor. Tower-59'

+93-T.L.-18'

+50-18'Tw. Eln + Bay T.L.-18'

+65 Cor. Tav-56'

+50-Lake-42'

9' 10'

+45-SW Cor. Bldg.-60'

+36-End G.R. 13'

90 Lake-40'

10' 10'

+89-10'Eln + Row Tr-22'

+36-Lake-34' G.R. 15' 12' 5'

+68-PR-13'

+57-End G.R. 12.5'

89 Lake-38' G.R. 16'

12' 5'

G.R. 10'

+96-15' Will-28'

+86-12' Will-39'

+79-5' PR-13'

+74-12' Willow-28'

+63-18' Will-33'

+49-5' PR-11'

+45-12' Eln-24'

+38-Bay G.R. 13'-12'0-24'

88 Lake-38'

+95 Cor. Bridge - 16'-16'

+95-End G.R. 13'

+82 Cor. W.W. 26.5' 28'

+99-PR-11'

+85 T.L.-16'

+69-24' PR-31'

+83 Lake-37'

9' 7'

+63-5' Trac-20' End Fe.

+40 T.L.-17'

+56-10' PR-24'

+46-12'0'18 Cor-27 Ragetic +43'

+21-36' Eln-29'

+16-12' Linden 30'

+26-34'0-25'

87 G.R. 15'

11' 7'

G.R. 18' Fe. 21'

+99-12'0-25'

+61-24' Eln-21'

+64-24' Cor-28'

+60-30' Cor-14'

+51-PR-11'

+35-Lake-33'

+32-T.L.-22'

86 Lake-40 G.R. 14'

10' 7'

+09-15'0-32'

Old Boat Ho.
(N.G.)

LAKE

Kohlman Lane

Parking

PARKING

AREA

Lowland

KOHLMAN

LAKE

GERVAIS

No cable on G.R. R. 444

4.5 S.W.

6 S.W.

Tunnel to
protect Mill
from Jack & cold

dock

mill

7' 5'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

3'

+174-2-15" Oaks-34'

+37-6" B.E. 42'

+34-6" P.-27'

+20-Grass P.-5-6" Will.-71'

+10-5" P.-28'

99' +96-18" Linden-24' (Tie)

End T.L.

+71-T.L.-20'

+80-18" O.-58'

+85-2-6" P.-34'

9 11' +40-15" O.-70'

+36-P.P.-14-20'

+30-18" Ty. Lind.-42'

+20-12" O.-36'

+06-12" O.-39'

9' 10'

+43-8" Elm-36'

11' 10' +54-15" Cor.-25'

+42-S.W. Cor. Ho.-56'

+18-18" O.-36'

10' 10' FC-21'

+94-P.P.-17'

+85-12" Elm-24'

+19-T.L.-20'

98 Lake-32

+99-T.L.-22'

+46-T.L.-23'

+43-Lake 33

+12-T.L.-

+15-Lake-26

97 Lake 26

+61-18" O.-27'

+37-End-26'

FC-24'

9' 10'

+84-End 12" Vit.-17.5'

+71-End 12" Vit. 33'

9' 10' +55-P.P.-15'

+40-Lake-25

+20-T.L.-14'

+25-FC-25'

96 Lake-28' T.L.-16' 11' 9'

+73-T.L.-17'

11' 10' +69-15" B.E.-25'

+60-FC Cor.-26'

+22-T.L.-15'

+28-P.P.-19'

+13-18" B.E.-22'

95 Lake-36 T.L.-15' 11' 11' Bag FC-33'

+52-18" O.-24' (Tie)

+79-20" B.E.-27'

+75-" " -27' (Tie)

+63-" " -32'

+57-" " -36' (Tie)

+53-12" " -42'

+41-15" B.E.-55' (Tie)

+7-P.P.-23-29'

+10-24" Elm-44'

11' 11'

+49-T.L.-19

94 Lake-38'

+72-T.L.-15'

+55-" -15'

9' 10'

93 Lake-42'

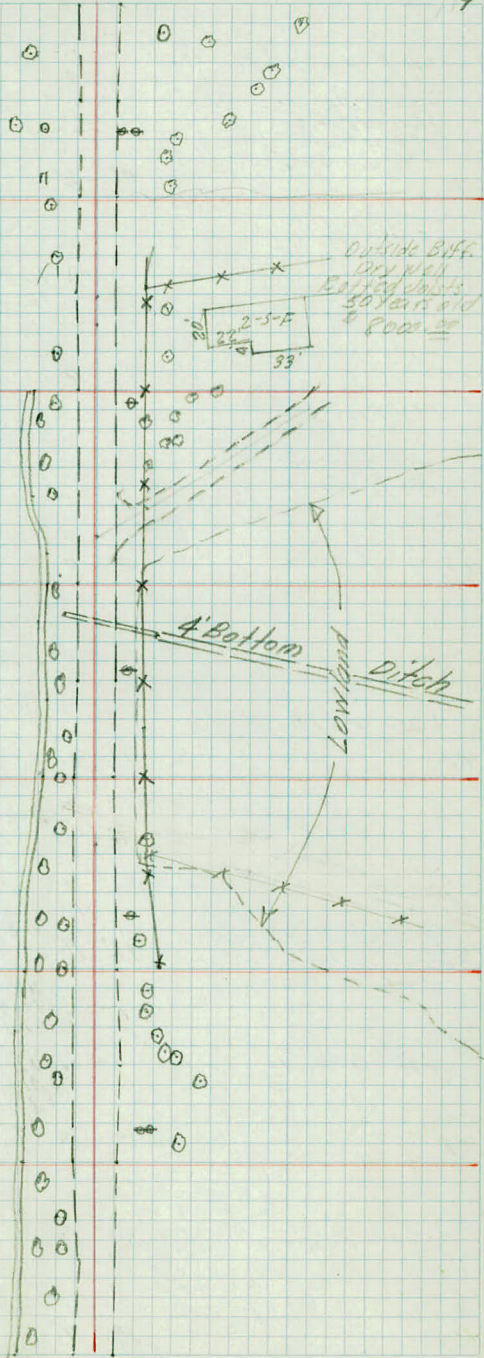
10' 9'

1-8-91
R.A.
M.B.
J. Fi/z.

60' Edge of Lake at 1/2 Section

LAKE

GERVAIS



100-PP-23 JFP-30
 189-12" Ash-28' 193-18" Ash-24' 193-PP-20
 165-18" Rd-25' 176-Cor Oak-34'
 141-12" Ash-27' + 52-12" Ash-26-23'
 138-12" Ash-21' 148-12" Ash-22'
 126-12" Ash-30-24'
 121-3-0" Ash-24'-20'
 107-30" Oak-29'
 112-Sp. Willow-24' Oak-22'
 106 7' 12' Fe-32'
 190-15" Will-29 192-15" Will-27'
 182-Cor Ho-35'
 191-18" Will-26'
 171-18" Will-22'
 157-18" Ash-25' 160-PP-22'
 190-Cor Ho-35.5'
 122-6" Oak-33'
 107-5" " -34'
 105 9' 16' Fe-32'
 190-Shrub-29' 170-Rd-10'
 156-18" Elm-28'
 159-Shrub-32' 13'
 143-CB-27' 142-Rd-12'
 137-Shrub-50-44' 133-Rd-95-60'
 125-Rd-81-50-29
 104 53' 10' Fe-18'
 170-33 6' 160-FC-18-45
 167-PP-11'
 160-12" Will-35'
 135-19-6' 140-18" Will-28'
 47' Long 134-18" Vit-24'
 120-18" Vit-21' 109-18" Ash-29'
 103 11' 9'
 178-2-12" Will-26'
 155-18" Elm-22' 160-PP-12'
 132-18" Tw Elm-30'
 118-18" Elm-22' 11' 11' 112-PP-16'
 184-15" BE-22' 199-Ent.
 177-4 Tw Elm-22'
 167-S.W. Cor Ho-61'
 135-18" O-18'
 135-18" O-27'
 114-18" O-20'
 119-15" O-25'
 101 12' 11' 192-Ent.
 190-30" Linden-45'
 121-12" O-32'
 116- " " -27'
 196-10" O-27'
 171-PP-20'
 165-15" O-23'
 135-15" O-19' 11' 11'
 133- " -22'
 107-15" " -24' 105-8" Pop-50'
 100 10' 11' 104-18" Pop-53'

15' 10'

+75-12'-9' +78-T.P.-18'

+57-4' Elm-42'

+35-End Pines
+24-5th-26'

113 24' Elm-56' 11' 9'

+85-5th-38'

+656-M.H.-00

+50-Pines-50'

+80-16" O.-31'

+78-T.P.-16

+48-12" B.E.-35'

+31-18" O.-36' +33-8" B.E.-36'

+05-36" Elm-33'

+01-12" B.E.-36'

112 11' 9'

+88-12" B.E.-32'

+84-C.B.-20'

+83-M.H.-15.25'

+77-8" B.E.-29' +81-8" W. B.E.-37'

+53-15" B.E.-28'

+38-8" B.E.-29'-26'

+34-8" B.E.-36'

+31-6" B.E.-39'

+16-6" B.E. + End Fe.-36'

111 10' 11'

+96-12" B.E.-36'

+84-18" O.-36'

+62-15" O.-37'

+26-2-8" B.E.-30'

110 8' 11'

+78-C.B.-20'

+66-18" W. Cor. H.-31'

+53-4" B.E.-37'

+20-Fe Cor.-37' No-Longer

+11-5" Pines-41'

+05-4" " -38'

109 8' 12'

+98-6" Pines-40'

+87-12" W. O.-31'

+66-12" O.-31'

+51-16" O.-27'

+36-18" T.P. O.-28'

+18-6" Pines-35'

+11-C.B.-20'

108 6' 12'

+94-Ent.

+71-18" O.-24'

+61-24" O.-24'

+56-18" O.-29'

+36-15" O.-26' +28 Cor. Cott.-36'

+24-5" Pines-25'

+01-12" Ash-26'

107 7' 10'

+64-S.W. Cor. H.-65'

+08-20" B.E.-33' End Fe.-
Fe.-33'

+75-16" B.E.-35'

+69-PP.-20'

+36-8" Elm Tr.-33'

+05-8" B.E.-36'
Fe.-34'

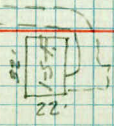
C.B.'s are 2' square with
a 12" V.I.T. head to server

NURSERY

Wooded
Woven wire

Grape Arbor

EL Top = 898.46
Bottom = 898.76
Grated cover should
be replaced.



+90 B. 25.7' -
+74 M. 14-00

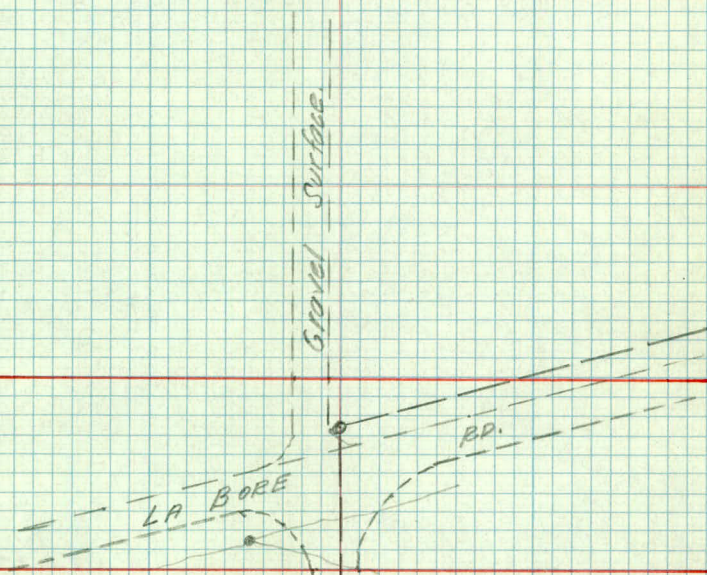
55 = +50

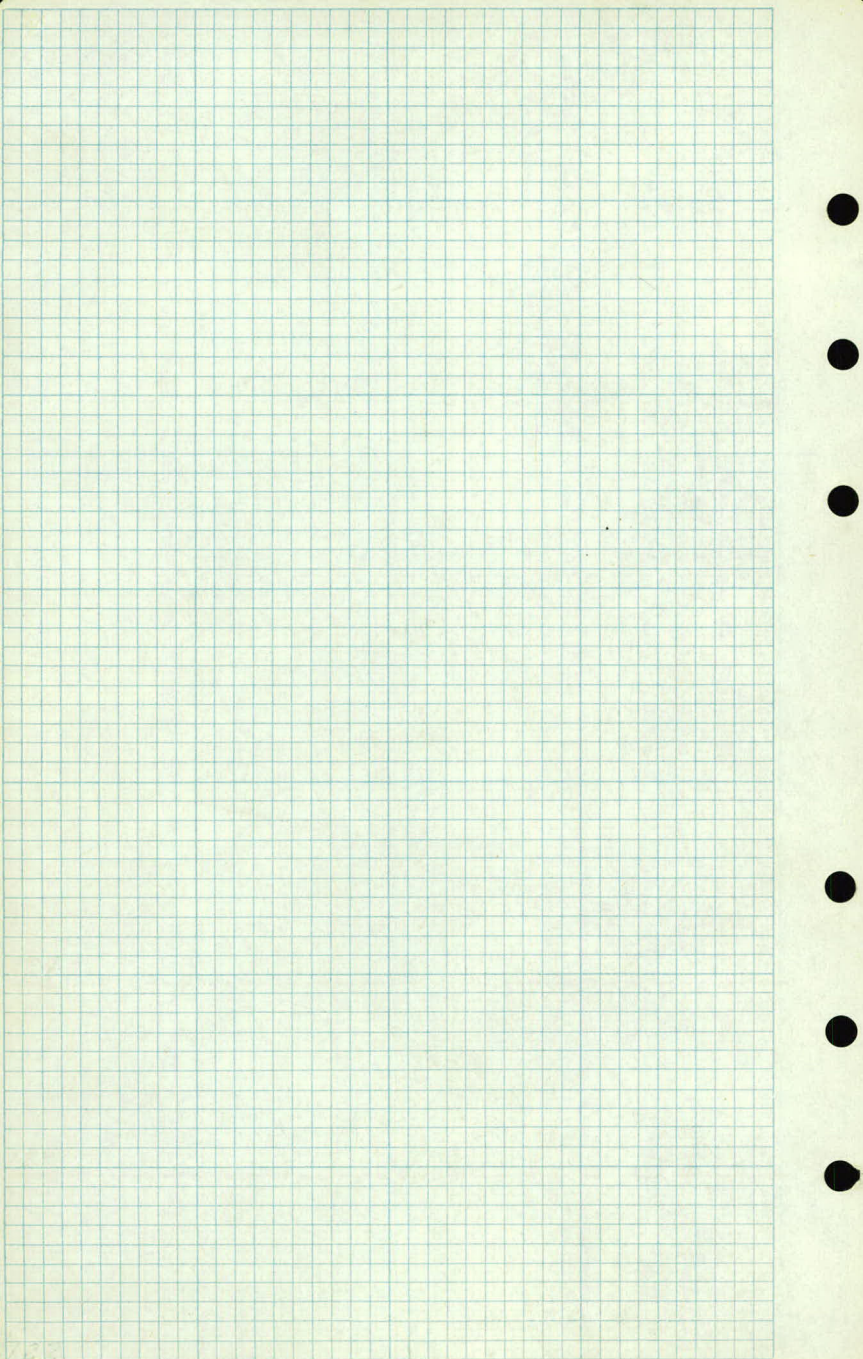
+30 - 51' 26' = +39
+24 - 30'

114 +14 T.P. 47'

1-4-77
K.A.
M.B.
J. Fitz.

12





X Sections

Arcade St.

Sta.	+	π	-	Elev.
B.M.	10.17	88229		872.12

74.4

80

+12

74.6

+36

75.0

+70

75.6

81

76.3

+50

77.2

82

77.6

+25

77.7

10-20-46 +30° Worm
K.A.
M.B.
J.F.

Lt

8

10.

R.R. Spt in 18" Tw. Elm S.W. Cor. Arcade + Co. Rd "C"

Edge of 231 215 192 91 81 79 80 87 86 87 88 ✓
100 48 37 33 13 8 8 22 27 43 50

231 215 192 86 79 77 78 85 67 63 92 ✓
48 37 33 12 8 9 16 24 32 50

232 181 148 79 74 73 75 79 48 42 36 15 ✓
47 40 33 23 12 8 9 17 25 29 37 50

218 182 141 73 69 67 68 71 69 44 16 104 116 119 ✓
45 37 32 24 14 8 10 15 19 21 24 39 57 75

224 219 181 134 63 62 60 64 63 27 116 135 146 150 ✓
48 45 40 34 26 15 9 15 18 21 28 43 69 80

214 61 53 51 56 49 00 ✓
50 40 20 9 11 20 21

217 188 60 51 47 49 49 28 117 ✓
54 46 44 23 14 10 13 22 23

124
27
231 217 204 50 52 46 47 47 09 ✓
58 45 41 17 14 15 20 21

Sta	+	π	-	Elev.
		882.29		

82 +50				77.7
--------	--	--	--	------

83				77.3
----	--	--	--	------

+50				76.6
-----	--	--	--	------

84				76.0
----	--	--	--	------

+50				75.3
-----	--	--	--	------

85				74.5
----	--	--	--	------

T.P.	18.97	891.09	6.98	875.31
------	-------	--------	------	--------

B.M. T.P.	13.29	903.73	0.65	872.12
-----------	-------	--------	------	--------

81 +50				77.2
--------	--	--	--	------

82				77.6
----	--	--	--	------

10-20-46

Edge Lt E Rt
1cc

231 206 192 52 97 51 46 46 12 ✓
54 43 39 19 16 12 21 22

50 220 183 61 56 50 49 23 + 59 ✓
43 35 17 12 18 21 37

50 221 200 69 63 57 58 58 29 13 ✓
40 33 18 12 11 18 20 25

49 211 175 73 69 63 66 68 34 197 ✓
~~32~~ 33 19 12 12 18 21 34
37

52 223 209 176 76 74 70 70 73 76 75 61 + 30 ✓
45 36 31 18 12 6 11 14 17 19 31

44 217 182 159 92 81 78 80 54 41 ✓
38 35 31 18 12 15 17 22
Nail in P.P. #23 rt sta. 85

R.R. Sp. in 18" Tw Elm SW Cor. Arcade + Co. Rd. "C"

26.5

124 112 96 80 52 ✓
32 39 50 68 100

26.1

56 45 30 ✓
37 60 100

Sta	+	π	-	Elev
		909.73		
82 +25				77.7
T.P.	6.96	909.87	0.82	902.91
+50				77.7
83				77.3
+50				76.6
84				76.0
+50				75.3
T.P.	-0.02	896.60	13.25	896.62
85				74.5
T.P.				
T.P.	0.27	883.29	13.58	883.22
T.P.			8.00	875.29
				875.31

10-23-46
K.A.
M.B.
C. Fitz.

H2O Strong Winds

Lt

£

Pt.

26.0

95 29 09 1.7 00 ✓
42 60 72 85 100

32.2

88 83 45 33 ✓
45 50 74 100

32.6

85 72 59 34 19 1.7 ✓
46 52 60 74 90 100

33.3

79 58 47 31 2.4 ✓
48 59 78 85 100

33.9

113 94 60 ✓
45 60 100

34.6

157 139 117 99 94 ✓
40 52 70 88 100

22.1

100 89 76 58 42 22 ✓
29 38 44 55 75 100

Nail in P.P. #23

Sta.	+	π	-	Elev.
T.P.	0.60	875.91		875.31

85 + 45				73.5
---------	--	--	--	------

+50				73.4
-----	--	--	--	------

+75				72.8
-----	--	--	--	------

86				72.0
----	--	--	--	------

+35				71.4
-----	--	--	--	------

+67.6				71.1
-------	--	--	--	------

87				70.9
----	--	--	--	------

+50				70.5
-----	--	--	--	------

Lt

E

Rt

Nail in P.P. #23 rt sta 85+

Edge

Ice

16.9	14.9	11.1	9.4	9.2	27	24	2.2	2.8	2.0	+1.8	+4.2	✓
43	39	32	27	18	12		11	16	19	22	50	

16.9	14.9	11.1	9.4	9.2	27	25
42	39	32	27	18	12	

2.2	1.0	11.1	✓
13	34	50	

16.3	12.0	4.2	3.4	3.1	27	1.5	+0.7	✓
35	31	14	10		13	31	50	

17.1	15.0	11.0	9.1
40	33	25	12

3.9	4.0	3.6	7.2	9.8	9.0	✓
4	11	17	32	50		

17.1	15.4	4.7	4.7	4.5	4.7	4.4	4.7	11.7	12.9	13.3	✓
33	28	14	10		5	7	12	22	32	50	

14.8	5.4	5.1
35	29	16

4.8	4.9	4.9	12.6	14.5	15.5	✓
5	10	21	30	50		

16.1	13.3	5.9	5.4	5.0	5.0
37	31	25	14	12	4

5.1	5.2	13.3	14.4	15.8	✓
5	10	25	31	50	

17.2	15.8	12.7	6.0	5.6	5.4	5.4	5.5	5.5	6.1	12.2	13.8	14.5	5
37	29	23	14	10	3		6	10	13	22	29	50	

Sta	+	π	-	Elev.
		875.91		
87+83 = Approx. End of W.W.				70.3
+95 Beg. of Bridge				70.3
88				70.4
+16		in channel = 18.5		70.5
+26		in channel = 18.3		70.3
+36 = End of Bridge				69.8
+50 Approx. End of W.W.				69.3
+75				68.6
B.M.	3.82	870.08	9.65	866.26

10-20-46

Lt.

E

Rt.

Edge
Ice

Grat NW

✓

17.2 158 151 14.3 66 57 56 59 58 6.2 122 19.2 14.8
37 33 28 25 14 9 6 9 13 23 32 50

in channel) S.W.

S.W.)

in channel

18.0 14 14 57 53 56 58 57 5.5 1.1 1.1 17.9
159 159 14.7 14.7 9 9 10 147 147-159 15.9

17.9 = P.L. Channel
55 = 6

S.W.)

S.W.)

✓

1.7 1.7 5.6 57 6.0 54 57 5.5 5.2 1.4 1.4
159 147 14.7 10 9 9 10 147 147-159

165

S.W.)

✓

1.8 1.8 57 58 6.1 56 58 5.6 5.4 1.6 1.6
147 147 14.7 10 9 8 10 149 148 148

in channel

S.W.)

in channel

18.1 1.9 58 59 6.4 6.1 6.1 1.7 1.7 17.9
158 158 14.6 14.6 11 9 10 147 147-159 159

Edge
Ice

17.2 155 150 7.1 6.9 6.6 6.7 11.2 14.2 15.2
32 31 27 15 8 10 19 29 50

✓

15.9

14.3 7.8 7.5 7.3 7.4 7.5 150 151 158
36 38 23 16 11 6 11 25 41 50

✓

Top of N.W. Cor. of Upper Cond. step Ent. to Tavern. 6

Sta	+	π	-	Elev.
		870.08		

89				68.1
----	--	--	--	------

+28				67.4
-----	--	--	--	------

+36				67.3
-----	--	--	--	------

+50				67.1
-----	--	--	--	------

90				66.2
----	--	--	--	------

+50				65.2
-----	--	--	--	------

91				64.8
----	--	--	--	------

+50				65.1
-----	--	--	--	------

10-23-46 +10° Windy
K.P.
M.B.
J. Fitz.

Edge
160

Lt.

2

Rt.

10.8 104 95 22 22 20 22 37 111 111 ✓
38 36 27 18 12 8 15 29 50

10.8 98 34 30 27 31 45 110 112 ✓
36 28 18 15 10 18 28 50

97 37 30 28 28 31 44 52 63 ✓
34 27 18 15 3 8 20 30 50

42 35 30 35
101 43 57 32 37 49 55 ✓
37 26 18 15 11 25 50

43 39 41
105 87 59 45 44 40 42 47 47 59 ✓
40 31 20 16 12 10 9 14 22 50

104 91 55 49 49 50 52 55 50 ✓ S.W.
42 32 21 13 9 13 37 47 49.7

108 103 93 61 53 52 52 49 44 ✓
55 50 37 32 12 5 18 35 50

110 103 86 67 60 56 52 50 49 50 52 55 ✓
58 50 45 24 16 12 10 6 5 12 29 50

Sta	+	π	-	Elev
		870.08.		

91	+75			65.4
----	-----	--	--	------

92				65.7
----	--	--	--	------

	+06			65.8
--	-----	--	--	------

	+17			65.9
--	-----	--	--	------

	+30			66.1
--	-----	--	--	------

	+70			66.7
--	-----	--	--	------

T.P.	6.42	873.70	2.80	867.28
------	------	--------	------	--------

	+81			66.9
--	-----	--	--	------

93				67.3
----	--	--	--	------

Edge
102

L

E

R

111 108 80 56 56 53 47 45 47 48 52 ✓
53 42 24 17 11 10 5 14 28 50

89 72 56 51 49 44 45 46 46 46 ✓
50 27 24 18 13 11 8 20 34 50

97 78 61 60 51 49 43 44 36 31 91 45 46 ✓
48 29 26 20 17 12 11 16 18 28 33 38 50

93 74 59 50 47 42 44 47 29 31 46 48 ✓
43 27 24 19 12 10 8 16 21 31 47 50

96 67 48 46 40 42 44 47 30 30 ✓
42 27 21 12 11 11 25 31 40 50

111 95 64 46 40 39 33 35 37 40 ✓
40 27 21 15 12 8 10 29 50
45/493

147 137 127 93 78 73 68 68 71 66 28 25 ✓
42 28 26 19 15 10 8 23 27 33 50

147 133 100 88 74 68 64 64 63 58 26 21 ✓
42 26 21 17 18 9 8 22 26 32 50

Sta	+	π	-	Elev.
		873.70		

93	+50			68.2
----	-----	--	--	------

94				68.7
----	--	--	--	------

	+16			68.7
--	-----	--	--	------

	+26			68.7
--	-----	--	--	------

	+50			68.7
--	-----	--	--	------

	+75			68.3
--	-----	--	--	------

95				67.8
----	--	--	--	------

	+25			67.2
--	-----	--	--	------

10-23-46

L

E

C

147 136 127 105 89 63 58 55 57 58 57 21 1.9 ✓
41 29 26 23 18 13 7 7 13 25 30 50

127 102 90 62 57 50 50 54 56 53 11 07 ✓
38 29 24 19 14 10 5 11 16 26 32 50

132 95 60 54 50 51 57 56 14 13 35 ✓
35 28 20 13 6 9 17 26 34 41 50

130 60 50 50 60 64 70 ✓
37 27 13 10 21 34 50

136 114 64 61 55 50 49 53 62 55 54 70 ✓
37 30 28 16 13 10 5 14 27 35 42 50

143 132 112 64 60 54 52 56 57 44 74 6.0 ✓
37 36 32 26 15 10 6 14 22 27 44

138 108 94 67 59 58 61 64 53 57 67 74 ✓
36 33 28 22 15 8 14 16 18 21 27 32 50

147 129 94 88 70 65 64 69 73 73 85 79 78 ✓
33 30 23 18 12 6 13 16 19 29 33 50

Sta	+	Σ	-	Elev.
		873.70		
95	+60			66.7
96				66.0
T.P.	5.74	871.32	8.12	865.58
	+40			65.5
	+71			65.7

Profile of ditch

	+84			65.8
97				66.1
	+15			66.5

L E E
Edge
100.

147 132 102 82 77 70 72 100 113 120 ✓
31 27 22 16 13 10 19 25

147 145 125 79 77 83 119 129 127 ✓
28 27 23 13 10 21 28 50

Nail in P.P. rt. 96+

123 111 92 61 58 60 65 96 110 111 109 ✓
25 21 17 10 8 12 18 26 35 50

FL 12" vit. ✓

123 116 100 97 70 59 56 60 64 86 91 103 128 128 111 111
26 23 19 18 14 11 8 12 17 21 29 33 38 46 50

FL 12" vit. ✓

128 123 121 119 121
00 50 100 150 200

FL 12" vit. ✓

123 121 77 56 55 57 63 81 88 92 101 108 108 ✓
25 17 15 10 8 13 16 19 21 23 37 50

123 71 55 52 54 58 96 105 ✓
27 19 10 8 12 23 50

123 71 51 48 50 68 82 93 100 ✓
26 17 9 9 14 19 28 50

Sta.	+	π	-	Elev.
		871.32		
B.M.			7.26	
97 +45				67.3
+75				68.1
98				68.7
T.P.	5.93	874.66	2.59	868.73
+18				69.2
+50				69.8
+58				70.0
T.P.	4.75	873.57 873.48	5.93	868.73
B.M.			7.26	866.32 866.31
+72.52				70.3
99				70.6

1-2-47 +5°

L E F

Edge

105

Top N.W. Cor. of Upper Step Front of Tal.

12.3 6.3 5.2 4.2 4.0 4.3 5.4 6.7 6.8 ✓
33 24 16 7 10 15 34 50

12.3 4.6 3.9 3.4 3.2 3.6 4.1 3.2 3.5 4.5 ✓
33 20 11 7 9 15 22 30 50

12.3 3.7 3.3 2.8 2.6 2.8 3.1 3.3 0.5 1.0 2.1 1.1 ✓
32 20 12 9 8 10 15 21 30 50

E 5/4 98

15.7 13.5 5.6 6.1 4.0 5.6 5.5 5.8 6.3 2.6 1.8 0.7 ✓
32 31 19 16 13 10 11 15 21 33 50

15.7 11.5 9.8 6.3 5.7 5.3 5.0 4.9 5.3 5.6 1.8 0.2 0.7 ✓
32 29 25 19 14 11 9 13 17 23 50

15.7 10.7 7.1 5.8 5.7 5.1 4.7 5.2 5.7 0.5 1.0 2.0 ✓
32 28 20 15 13 10 12 15-19 25 50

E 5/4 98

Top N.W. Cor. of upper step at Tal. (use as check)

14.4 9.3 7.6 4.2 4.0 3.8 3.5 3.3 3.8 4.2 1.2 1.5 5.5 ✓
35 28 23 16 13 12 10 12 16-19 29 50

14.4 9.4 8.5 3.1 3.4 3.0 3.0 3.4 3.8 1.8 1.5 1.5 5.5 ✓
42 35 32 23 18 7 12 17-20 34 50 75

1168
93

11

Sta.	+	π	-	Elev.
		873.57		
		873.43		
99	+10			70.7
	+25			70.5
	+45			70.3
	+58			70.1
	+80			69.9

Edge
166

14.4 10.5 10.1 14.9 23.4 30 29 33 35 112.6 116.6 119.4 ✓
50 39 37 26 21 18 9 13 19 35 57 25

144 116 100 36 36 31 31 36 38 35 136 178 155 1203 1230
71 41 34 21 17 8 12 16 20 27 34 38 70 100

144 134 111 39 38 33 33 39 41 35 10.4 16.9 121.0 ✓
57 55 34 25 17 9 13 16 22 26 35 42

+237 +267 +264 +23.6 ✓
125 100 77 58

144 94 41 28 44 42 34 35 42 37 00 17.7 124.0 125.5 ✓
48 41 33 31 28 20 8 14 24 28 38 45 56

+251 +283 +290 ✓
125 100 86

144 111 46 46 36
45 42 31 23 8

37 43 43 40 +26 19.8 ✓
15 19 24 30 40

+265 +293 +291 +26.8 ✓
125 100 89 54

Sta	+	π	-	Elev.
		873.57		
		873.48		

100				69.4
-----	--	--	--	------

	+21			68.8
--	-----	--	--	------

	+62			68.0
--	-----	--	--	------

101				67.2
-----	--	--	--	------

	+30			66.6
--	-----	--	--	------

	+60			66.2
--	-----	--	--	------

102				65.8
-----	--	--	--	------

L

E

R

Edge
100

14.4 121 40 50 49 42 42 45 50 48 34 15 141 ✓
38 34 25 20 15 7 10 17 24 28 30 39

+25.2 +28.3 +28.5 +27.8 ✓
125 113 98 83

14.4 5.5 54 4.8
35 23 13 5

48 4.9 56 50 +22.6 +24.4 +25.6 +25.7 ✓
7 18 42 78 82 98 125

144 83 64 57 56 6.2 6.1 11 15.1 5.5 ✓
36 27 14 9 16 19 24 50

144 7.9 7.4 6.6 6.4 6.7 7.3 7.8 2.4 5.5 ✓
33 24 15 8 9 19 28 50

144 80 79 71 70 7.3 7.7 8.8 9.4 9.2 8.1 ✓
32 23 15 7 10 16 21 27 40 50

144 102 8.3 7.6 7.4 7.5 8.4 9.4 9.7 ✓
32 24 16 7 8 16 22 50

144 132 91 8.0 7.8 7.8 8.3 10.9 10.4 10.1 ✓
30 26 17 6 7 19 28 43 50

Sta.	+	Σ	-	Elev.
		873.57 873.48		
102	+50			65.2
103				64.5
B.M.	517	869.93	885	864.72 864.63 (864.76)
+19				
+24	End of storm sewer.			
+34				64.3
+50				64.1
+80				64.0
B.M.		5.17		864.76

2-47
K.F.
M.B.
J. Fitz.

+50

Lt.

±

Et

Edge

100

144 125 127 129 9.6 87 84 85 9.2 11.0 12.5 ✓
50 44 40 28 18 7 9 21 29 50

144 14.9 129 120 107 101 9.1 9.1 9.7 123 130 ✓
71 70 33 26 21 17 6 17 24 50

Spt in 18" Elm NW Cor Keller Pkwy & Arcade St. 180.31
7.26

873.59
885

864.72

58.98

10.95

FL. 18" Cong 21'

58.70

11.23

FL. 36" Cong. 59'

59.48 FL. 18" Cong

7.2 6.9 6.6 5.8
50 31 23 10

5.6 6.2 8.9 10.5 9.2 ✓
9 20 24 50

6.7 6.4 5.8 5.5 5.0 6.3 8.4 9.3 9.2 ✓
50 34 23 11 8 15 29 50

6.2 5.4 5.4 5.9
50 26 11

6.3 8.6 9.2 9.2 ✓
8 17 30 50

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

7

π

1

Elev.

25

Sta	+	-	Elev.
B.M.	784	872.60	(864.76)

04			64.2
----	--	--	------

+22			64.4
-----	--	--	------

+39			64.7
-----	--	--	------

+43	C.B. 27' Lt		
-----	-------------	--	--

+46			64.8
-----	--	--	------

+65			65.0
-----	--	--	------

05			65.2
----	--	--	------

+30			65.5
-----	--	--	------

4-47
F.A.
M.B.
J. Fitz.

+10° to +30°
Fair + Windy

L

E

R

Spt. in 18" Elm N.W. Cor. Keller Pkwy + Arcade

7.9 8.0 8.0 8.4 7.9 11.0 11.8 11.9
50 31 9 10 18 31 50 ✓

7.9 8.2 7.9 8.2 8.8 11.2 11.6 11.8
50 31 12 14 23 32 50 ✓

8.4 8.6 10.0 9.6 8.0 7.8 7.9 8.4 8.7 10.8 11.2 11.7
50 35 29 25 20 7 11 17 25 32 50 ✓

12" Vitr. Outlet Inlet Top Corner
12.2 10.2 8.9
60.4 62.4 63.7

7.8 8.5 8.7 10.0 9.7 8.3 8.0 7.8 7.8 8.5 8.8 10.5 11.4 11.8
50 36 31 27 24 20 16 8 15 19 25 34 50 ✓

7.2 8.2 9.1 9.1 8.0 7.7 7.6 8.2 8.8 10.4 11.1 11.6
50 28 24 21 18 8 14 18 25 30 50 ✓

5.6 7.1 7.6 8.6 8.6 7.7 7.4 7.4 7.9 8.1 10.5 11.7
50 31 23 20 16 13 5 17 22 29 50 ✓

Cor. Ho. 7

5.4 6.7 8.0 8.2 8.1 7.3 7.1 7.3 7.9 9.7 11.0 11.8
36 24 20 18 15 12 10 21 27 34 50 ✓

Sta.	+	π	-	Elev.
		872.60		
105	+70			66.1
106				66.7
+13	Spillway Lt			67.1
+23				67.4
+60				68.4
107				69.7
+40				71.3
T.P.	12.44	885.07	+0.03	872.63
+77				73.1

L

E

K

5.9 6.8 7.7 7.7 6.8 6.6 6.5 6.6 7.3 8.8 10.4 11.0 L.O. ✓
 35 24 20 18 14 8 10 20 24 29 35

5.8 6.7 7.7 7.7 6.3 6.0 5.9 6.0 6.5 8.7 9.9 10.6 L.O. ✓
 50 24 21 19 14 9 9 19 25 29 35

Inv. Top

6.5 6.4 7.9 8.3 6.7 6.7 6.0 5.6 5.5 5.6 6.3 8.4 9.8 10.5 L.O. ✓
 50 33 27 24 24 18 14 7 9 19 26 31 36

7.0 6.1 6.3 5.6 5.5 5.2 5.2 5.7 6.0 8.0 9.4 10.1 ✓
 50 22 18 15 12 8 14 19 24 30 36

5.3 4.8 5.5 5.4 4.5 4.4 4.2 4.4 5.0 7.2 9.3 9.9 L.O. ✓
 50 25 22 18 14 10 10 18 23 31 37

37 38 42 35 31 29 30 37 7.0 7.9 8.6 L.O. ✓
 50 25 21 16 9 7 18 25 33 37

Cottage

0.8 1.9 2.1 2.6 1.7 1.5 1.3 1.8 2.5 5.0 6.3 6.8 L.O. ✓
 37 29 24 21 16 10 11 17 24 31 36

9.9 10.9 12.5 12.8 13.4 13.5 12.6 12.3 12.0 12.7 13.4 16.4 17.6 19.0 ✓
 50 40 31 24 21 17 15 7 11 17 26 31 50

Sta	+	π	-	Elev.
		885.07		

108				73.8
-----	--	--	--	------

+11 C.B. 20' Lt.

+16				74.3
-----	--	--	--	------

+60				76.1
-----	--	--	--	------

109				77.9
-----	--	--	--	------

+50				80.1
-----	--	--	--	------

+65				80.7
-----	--	--	--	------

+78 C.B. 20' Lt.

L

Z

P

9.4 11.2 11.3 11.4 11.3 11.4 12.4 15.1 16.9 18.2 ✓
 50 29 19 10 8 17 24 33 50

12.7
 12.4
 Top

12.0
 13.1
 Gr. Inv.

83 10.5 11.3 12.3 12.5 11.1 10.9 10.8 10.9 11.5 12.0 15.7 16.6 17.7 ✓
 50 32 26 22 19 14 8 8 13 18 26 33 50

5.5 7.2 7.6 10.5 10.4 9.6 9.3 9.0 9.1 10.2 13.5 14.4 15.8 ✓
 50 36 28 21 19 15 11 7 17 25 32 50

2.3 3.8 6.8 8.4 8.6 7.9 7.5 7.2 7.3 8.4 10.4 12.2 13.5 ✓
 50 33 26 22 18 14 9 7 15 21 32 50

10.5 9.0 1.9 4.4 6.5 6.3 5.7 5.3 5.0 5.0 5.8 6.4 8.6 12.0 ✓
 50 36 31 29 19 17 14 11 5 13 20 31 50

12.3
 50 11.7 9.0 1.7 4.0 5.8 5.7 4.9 4.6 4.4 4.4 5.5 7.3 7.7 7.7 ✓
 39 36 31 27 21 18 14 9 7 19 26 36 50

19.9
 5.2
 Top

19.1
 6.0
 Gr. Inv.

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

885.07

110				82.4
-----	--	--	--	------

+01 Profile of cent. rt.

T.P.	13.44	898.51	0.00	885.07
------	-------	--------	------	--------

+16				83.1
-----	--	--	--	------

+63				85.7
-----	--	--	--	------

111				87.9
-----	--	--	--	------

+50				91.2
-----	--	--	--	------

+83 M.H. 15.25 ± 1 ft

+84 C.B.

1-6-47

L

E

R

+3.9 +3.5 06 38 38 31 29 27 27 37 44 54 72 ✓
 50 37 30 24 18 13 11 5 15 22 30 50
 23

82.7

Gar.
Floor.

24 24 37 76 85 102 122 141
 5 18 41 50 76 100 145

Nail in P.P.H. 109+

8.7 9.2 13.6 16.4 16.3 15.4 15.4 15.4 16.3 16.6 18.1 18.9 20.7 20.8 ✓
 50 38 30 22 18 12 6 15 20 26 30 40 50

7.4 7.9 9.8 11.2 13.9 13.8 13.4 13.1 12.8 12.8 13.5 14.4 16.6 20.0 ✓
 50 40 36 30 21 19 16 12 5 15 22 31 50

6.0 7.7 8.4 11.0 11.8 11.3 10.8 10.6 10.7 11.9 14.8 15.4 18.7 ✓
 50 37 31 21 19 16 10 6 17 24 32 50

2.9 3.9 7.0 7.2 8.4 8.0 7.3 7.3 7.5 8.7 12.1 13.3 14.8 ✓
 50 42 32 26 20 17 11 6 18 23 33 50

93.2

92.2

87.64

90.5

5.3

6.3

10.87

8.0

Ground Top F.L. M.H. Inv. 12" Vit.

92.36

91.46

90.1

6.15

7.05

7.8

Top

Inv. G.B.

Inv. 12" Vit.

Sta	+	π	-	Elev
		898.51		

112				94.8
-----	--	--	--	------

+38				97.8
T.P.	7.10	905. ⁶¹ 62	0.00	898.51

+60				00.1
-----	--	--	--	------

113				02.3
-----	--	--	--	------

+31				04.3
T.P.	10.07	915. ⁶⁸ 69	0.00	905. ⁶¹ 62

+55				05.8
-----	--	--	--	------

+80				07.6
-----	--	--	--	------

114				09.1
-----	--	--	--	------

L E E

40.6 1.1 28 3.8 52 4.8 42 3.7 42 4.7 9.2 12.2 15.5 ✓
 50 41 36 28 22 18 15 9 15 25 39 50

72.9 11.6 0.7 1.4 2.1 2.1 1.3 0.7 0.7 1.0 1.6 5.3 7.7 13.6 ✓
 50 40 32 27 24 21 17 9 8 17 25 38 50
 Nail in T.P. Lt. sh. 112+

5.3 7.3 6.7 6.7 7.5 7.2 6.2 5.5 5.5 5.7 6.4 14.1 19.0 ✓
 50 31 28 26 22 20 17 9 7 22 34 50

6.5 5.4 4.3 4.3 5.3 5.2 4.4 3.4 3.2 3.3 3.5 4.0 4.5 14.7 16.6 17.0 ✓
 50 32 28 27 25 21 19 12 4 7 13 23 34 41 50
 34

1.8 0.4 0.8 1.6 2.7 2.6 2.0 1.2 1.3 1.4 1.9 2.4 19.6 14.7 ✓
 50 44 31 27 23 21 17 3 5 12 22 42 50

8.3 9.2 8.2 8.2 11.1 11.0 10.6 9.9 9.9 10.4 10.4 10.2 7.5 7.6 6.0 Being Filled ✓
 50 35 32 28 23 20 18 6 12 16 22 26 31

5.8 5.2 5.0 9.3 9.3 8.7 8.1 8.1 8.2 8.6 8.5 6.4 6.0 ✓
 50 39 29 25 20 16 7 5 11 18 22 50

2.8 3.5 3.8 7.1 7.3 7.0 6.5 6.6 7.0 6.6 5.5 4.5
 50 39 30 26 23 20 7 12 15 23 50

Sta	+	π 915.69 ^{.68}	-	Elev.	
114	+13			10.2	.
	+19			10.8	.
	+35			12.0	.
	+43		3.0	12.7	.
	+52		2.8	12.9	.
B.M.			3.05	912.64 ^{.63}	912.60

B.M.

1-7-47

L

E

E

43 26 2.2 62 6.1 53 55 56 60 55 47 37 ✓
50 39 -33 26 20 7 6 14 19 27 50

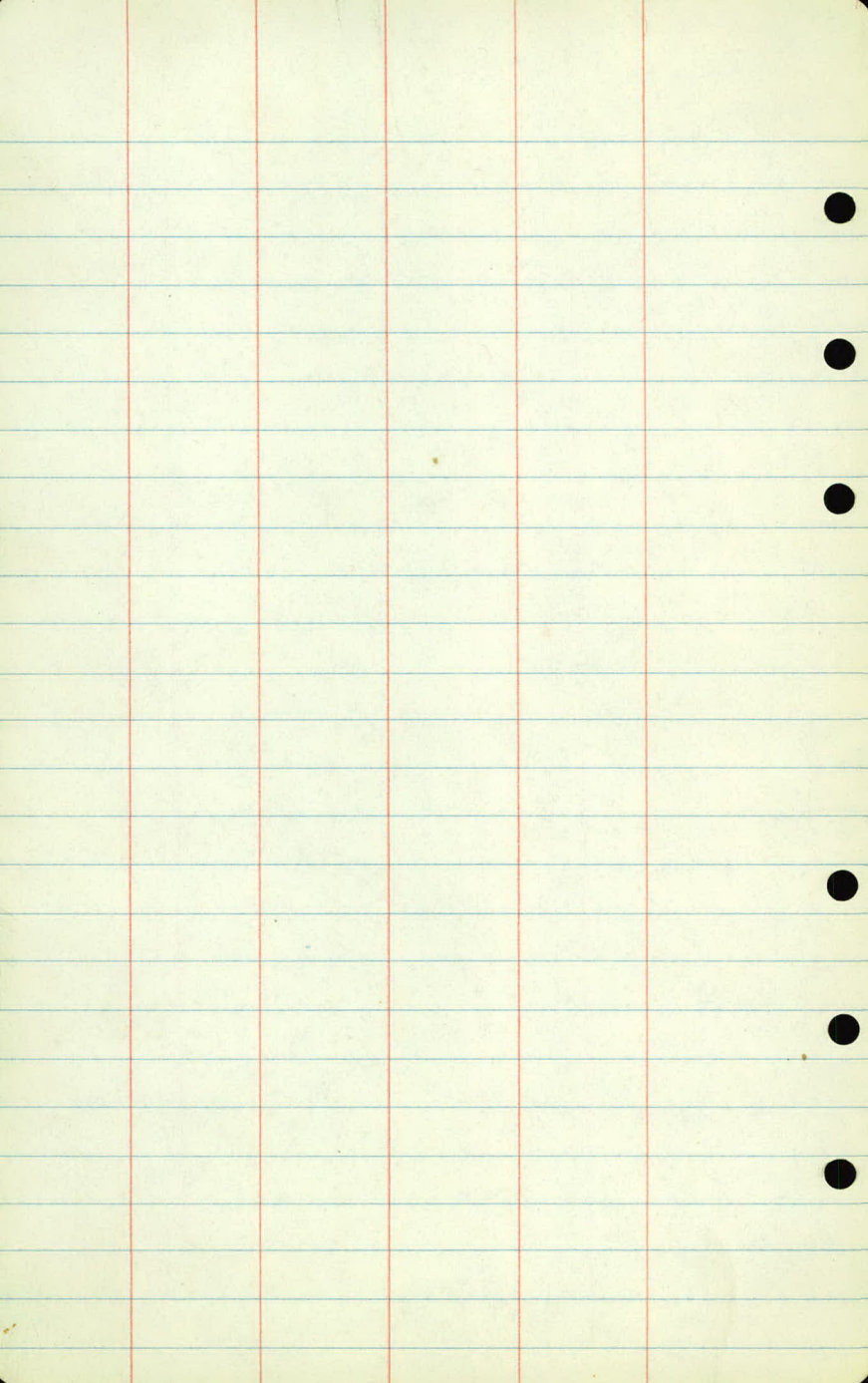
40 46 56 54 48
50 41 31 25 7

4.9 50 56 41 3.3
7 15 28 50 ✓

27 33 37
50 23

37 43 38 27 2.2 ✓
12 24 30 39 50

Spt in pp. s.w. cor. Arcade & La Bore.



Sta.	Vert Δ	Δ Dist	Hor. Dist	Vert Dist.
99+80	29°17'	62' ^{sin = .48913} _{cos = .87221}	54'	30.2'
100+00	21°03'	89 ^{sin = .35918} _{cos = .93327}	83'	32.0
100+21	19°28'	82.3 ^{sin = .33322} _{cos = .94284}	77.6	27.4
99+58	31°37'	52.5' ^{sin = .52423} _{cos = .85157}	44.7'	27.5

+ above E of road.

100+21 +27.4 +29.2 +30.4 +30.5
77.6 82 98 125

100+00 +32.0 +32.7 +32.5 +29.4
83.0 98 113 125

99+80 +30.2 +30.8 +32.0 +30.2
54 89 100 125

99+58 +27.5 +29.0 +32.5 +31.8 +28.6
44.7 56.0 86.0 100 125

99+45 +24.2 +26.9 +29.7 +30.0 +27.0
42 58 77 100 125

99+25 +18.6 +23.4 +26.9
38 70 100

+110

99 +11.2 +14.5 +18.5 +19.8
34 50 75 93

99+72.52

866³¹
4 75
971 06

Plans in Hand

Arcade St

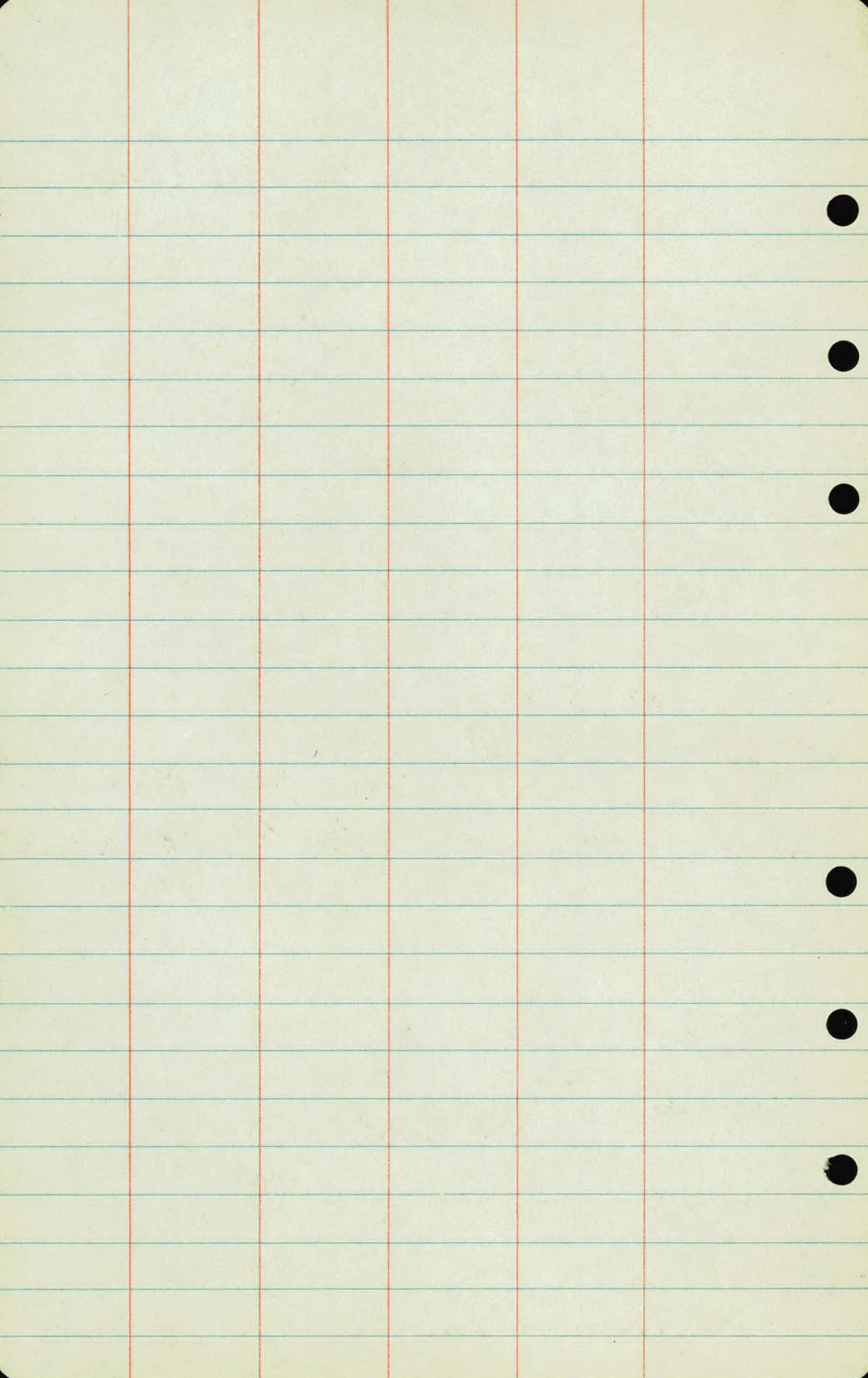
Proj 62-579-5280 (1)
62-520-3280 (2)

MMC

ADC

HAW

2/25/47



✓ 1+95 Lt Rem Pipe

✓ 2+13 Lt Rem M.H.

✓ 2+13 Lt Const MH with
Side inlet

✓ 1+39 Lt to 2+13 Lt Inst 18" CM

✓ 2+13 Lt to 2+29 Rt Remove Vit.
Inst 18" Conc

✓ 2+13 Lt Pl. 3 C.Y. Hand Placed
Riprap.

✓ 2+29 Rt Pl. 5 C.Y. Hand Placed
Riprap

✓ 2+06 Lt Rem 2 C.Y. Riprap.

✓ 2+81 Lt Rem.

✓ 4+83 Rt Rem. Culv.

✓ 4+96 Rt 21 to 5+23 Rem 2 C.Y. Riprap

✓ 5+50 Bl ent Rt 13 to 150 Rt
20 X 150

✓ 9+57 OK Leave

✓ 11+75 Lt to 11+95 Remove

✓ 12+12 Lt OK Leave

✓ 12+91 Rt. No culv required

✓ 17+05 Rt " " "

✓ 17+84 Rt " " "

✓ 18+61 Rt " " "

✓ 20+93 EXT

- 22+40 Rt OK Leave
- 23+24 Rt OK Leave
- 26+03 Rt Remove
- 26+50 Lt Rem + R 15" X 80' CM.
- 26+72 16' Lt Pl C.B Side inlet
- ✓ 28+26 Rt. Rem No Culv Required
- ✓ 29+43 Rt No Culv Required
- ✓ 30+61 Rt Rem No Culv Required
- ✓ 31+56 Lt No Culv Required
- ✓ 32+24 Rt No Culv "
- ✓ 33+28 Rt Rem. No Culv Required
- ✓ 34+29 Lt No Culv Required
- ✓ 34+62 Lt Rem. No Culv. Required
- ✓ 35+71 Lt. Rem No Culv. Required
- ✓ 35+88 Rt. OK Leave
- ✓ 36+02 Rt. Ext pipt From 35+88

30' North

- ✓ 37+36 Lt OK Leave
- ✓ 37+87 Lt OK Leave
- ✓ 38+68 Rt. No Culv Required
- 39+45 Rt. OK Leave
- 44+24 Lt. OK Leave
- ✓ 45+05 ♀ OK Lt. Ext
- ✓ 45+62 ♀ Abandon
- ✓ 45+05 Lt to 45+62 Spec Pitch Grade

- ✓ 48+66 ✕ Rem. PL 18" Conc
- ✓ 54+36 Lt Rem. + Replace
- ✓ 55+00 Rt No Culv Required
- ✓ 56+02.75 N.E Cor Bridge Rail Repair
- ✓ 55+05 to 57+50 Lt Rem G Rail
- ✓ Repl. with Conc. Posts
- ✓ 55+30 to 56+75 Rt Rem G R
- ✓ Repl with Conc. Posts
- ✓ 59+25 OK Leave
- ✓ 58+83 Rt OK Leave
- ✓ 60+16 Rt Rem + Pl. 15" x 30' CM
- ✓ 61+11 Rt. Rem + PL 15" x 20 CM
- ✓ 63+25 Rt No Culv Req'd
- also Bl. Top Drive 50' Back
- ✓ 69+14 Rt. OK Leave Bl Top Drive
- ✓ 66+38 Rt. OK Leave Bl Top Drive
- ✓ 70+09 ✕ Abandon
- ✓ 70+30 ✕ OK Leave
- ✓ 69+00 to 78+50 Pres Top to be
- Scarified prev. to raise fill also
- stab new fill with oil
- ✓ 75+83 ✕ extend
- ✓ 71+20 Rt OK Leave
- ✓ 76+61 Rt Rem PL 15" CM

76+72 Rt Rem. Pl. 15" CM Guard
Rail "C" to Bridge, Lt to be
repaired & painted ~~85+50~~
✓ 85+50 & Rem No Culv. required
85+62 Rt Pl. 15x30 CM Bl Top

Driveway

88+00 Rt Rem P. Pole
88+25 4 Car Bridge to be filled
& rip rapped

Bl. Top. Rail to Rail
Eliminating walks

Est New grade

Rem & Repl Guard Rail

91+20 No Culv Required

91+50 to 92+30 Grub 6 Stumps

92+40 Rt No Culv Required

96+80 & OK Leave

97+39 No Culv Required

101+42 Rt No Culv Required

103+30 & Ext as necessary

103+35 Lt Const Limestone Ditch
25 C.Y

104+43 Lt OK Leave

Pl. Gutter line 20' Lt
at C.B.

Additional X-sections

Arcade St.

Sta. 17 to Sta. 79+75.65

Reid 3/25/47

Sta.	+	π	-	Elev.
B.M.	8.54	880.66		872.12
Sta. 78 = check shot			12.93	
I.P.	-10.64	891.03	0.27	880.39

77

+12

+60

78

+25

+50

21.7

+75

20.7

K.A.
A.M.
M.B.
E.K.

+15° 50 M.P.H. Winds

2

E

B

R.R. Spk. in 24 "Tw. Elm S.W. Cor. Arcade St. & Co. Rd. "C"

134 124 112 115
100 117 133 150

115 110 98 95 94
100 107 123 139 150

93 67 56 51
100 114 128 150

8.5 7.4 5.3 4.7 at ho.
100 106 119 143

7.6 5.6 4.7 4.6 at ho.
100 112 125 140

6.7 5.2 4.5 4.3 at ho.
100 109 123 146

5.8 5.0 4.8 4.4
100 105 126 150

Sta	+	π	-	Elev
		891.03		

78 +79

18.7

79

(19.7)

+25

(18.7)

+43

(18.1)

+59

(17.6)

+7565 = E Co. Rd "C"

(17.2)

T.P.

T.P.	203	881.30	11.76	879.27
------	-----	--------	-------	--------

B.M.			9.19	872.11	(872.12)
------	--	--	------	--------	----------

Z

R

58 50 48 44
100 105 126 150

Trees ripped

109 82 53 45 41 25 26 39 55
91 100 109 131 148 150 167 168 200

117 110 96 82 44 39 38 40 52 52
100 110 119 128 137 150 175 190 197 200

126 116 103 82 44 40 34 31 52 67 74
100 117 128 136 144 150 171 197 203 250

122 119 114 78 45 34 33 41 42 53 68 75
100 115 126 136 146 162 176 200 205 208 236 250

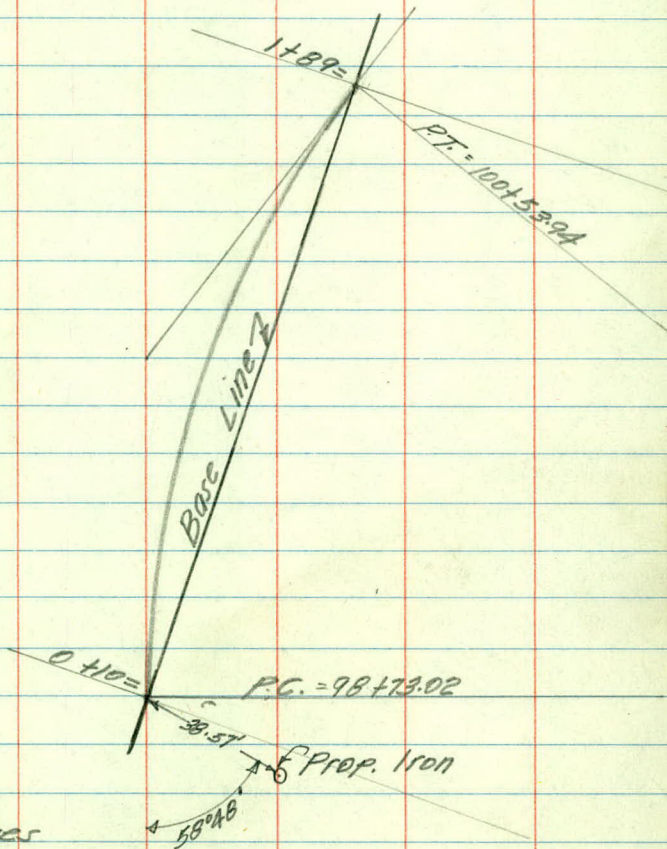
116 117 117 110 99 48 43 33 33 41 49 57
82 100 114 127 131 141 150 167 181 200 212 215

77 71
250 241

Sto + π - Elev

Borrow Pit

x sections



B-Pages

Rec. 3/17/47

Sta.	+	π	-	Elev
B.M.	1013	874.89		(864.76)

0 +00

+10

70.4

+25

70.5

+50

70.3

+75

69.7

+90

69.4

1

69.4

+13

69.4

R.H.
A.M.
M.B.
R.K.

3-11-41

2

Spt. in 15' E. 1m at N.W. Cor. Arcade + Keller Pkwy

E road

70.2 70.2 69.9 69.5 69.2 74.1 73.0 72.9 74.6 74.7
47 50 54 57 08 19 19 03 02
3 13 17 22 29 40 45 62 69

70.4 70.1 69.3
45 48 56
10 20

P-4

70.6 70.5 70.3 69.5
49 44 46 54
4 7 15

-P-4

70.7 70.3 69.9
42 46 50
10 9

P-4

70.3 70.0 69.7 69.8 74.9 80.1
46 49 52 51 00 +5.2
13 4 7 13 21

P-4

70.2 69.8 69.4 69.8 74.4 79.6
47 51 55 51 05 +4.7
14 5 8 14 22

P-4

70.1 69.6 69.4 69.9 76.7 81.7
48 53 55 50 +1.8 +6.8
14 9 8 16 24

P-4

69.9 69.4 69.4 69.9 76.7 82.2
50 55 55 50 +1.8 +7.3
14 4 11 17 25

P-4

Sta	+	π	-	Elev
		874.89		

1	+27			69.1
---	-----	--	--	------

	+46			68.8
--	-----	--	--	------

	+55			68.7
--	-----	--	--	------

	+75			68.4
--	-----	--	--	------

	+91			68.1
--	-----	--	--	------

2	+10			
---	-----	--	--	--

	+35			
--	-----	--	--	--

T.P.	18.31	893.20	0.0	874.89
------	-------	--------	-----	--------

L 2 R
 E. road

✓ 69.7 69.2 69.1 69.5 78.2 80.6
 5257 5854 +33 +57 P-4
 13 2 12 25 31

✓ 69.2 68.8 68.3 68.3 69.8 73.4 79.5
 5.7 61 6.6 6.6 5.1 1.5 +4.6 P-6
 10 6 26 34 36 49

✓ 69.0 68.7 68.1 68.0
 59 6.2 68 69 P-6
 9 9 29

✓ 68.5 68.4 68.0 67.9 71.3
 64 65 69 70 36 P-6
 4 7 27 31

✓ 68.1 67.8 67.7 72.5
 68 71 72 24 P-7
 11 21 26

✓ 67.8 67.4 67.2 68.3
 71 75 77 6.6 P-7
 7 17 26 30

✓ 67.2 66.8 65.4 65.0
 7.7 81 95 99 P-7
 16 25 40 50

+42 = E. Cor. of House

Sta.	+	π	-	Elev
		899.20		

0 +10

(70.4)

+24- Cor. Apple Orchard
93'

+25

(70.5)

+49- Cor. Orchard
81'

+50

(70.3)

+55- 5" Apple Tr.
95'

+56- 5" Apple Tr.
103'

+75

(69.7)

+90

(69.4)

T.P.	1018	892.65	10.73	882.47
------	------	--------	-------	--------

(69.4)

+13

+18- 5" Apple Tr.
195'

(69.4)

+27

(69.1)

E

E

✓
 75.3 76.4 73.9 74.9 at ho.
 17.9 168 19.3 18.3
 27 53 16 99
 (2.6)

✓
 77.2 79.1 79.8 74.9 74.9
 16.0 141 134 183 18.3
 25 46 75 91 106

✓
 83.7 86.6 88.0 87.7 85.2 79.9 72.9
 9.5 66 5.2 5.5 8.0 133 209 at N.W.
 25 48 69 81 100 137 160 con out ho.

✓
 88.4 81.9 77.4 68.7
 48 11.3 158 24.5
 182 165 187 205

✓
 83.2 74.5
 100 18.7
 188 233

✓
 88.7 86.0 82.2 72.7
 4.0 6.7 10.5 20.0
 163 193 210 240

✓
 90.5 88.8 85.3 71.3
 2.2 3.9 7.4 21.4
 172 182 213 259

✓
 89.1 85.2 72.9
 3.6 7.5 19.8
 200 225 258

Sta.	+	T	-	Elev.
		892.65		
1	+46			(68.8)
	+55			(68.7)
	+75			(68.4)
	+91			(68.1)
2	+10			
	+35			
	+55			
	+80			
T.P.		12.87	904.30	1.22 891.43

13.80
12.58
1.22

E

R

✓ 91.7 88.1 76.5
1.0 4.6 162 S.S.
200 220 256

✓ 91.3 85.3 73.9
1.4 7.4 198
223 250 284

✓ 92.7 90.0 85.3 76.4
0.0 2.7 7.4 16.3 S.S.
224 236 253 280

✓ 91.7 81.7
1.0 11.0 S.S.
249 280

✓ 90.9 85.0 79.6
1.8 7.7 131
275 300 318

✓ P.7 89.1 88.0 79.7
3.6 4.7 130
284 321 350

85.4 86.9 84.2 76.8
6.8 5.8 8.5 15.9
300 327 353 390

73.8 78.7 79.6 76.9
13.9 14.0 131 158
300 349 388 418

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

904.30

0 +75

69.7

+90

69.4

1 +00

69.4

+13

69.4

+27

69.1

+46

68.8

+55

68.7

+75

68.4

E

P

✓

91.7	96.9	96.9	95.2
12.6	74	74	9.1
27	65	85	100

✓

95.8	99.5	01.3	01.2	92.3	86.3
85	4.8	3.0	3.1	12.0	18.0
28	61	70	87	134	165

✓

98.9	99.9	02.3	02.9	01.0	92.8
54	44	2.0	1.4	3.3	115
33	44	63	79	100	145

✓

90.0	02.9	01.7	98.6	92.2
43	14	26	5.7	12.1
40	73	105	129	159

✓

01.2	02.0	00.5	99.6	97.1	93.9
3.1	2.3	3.8	4.7	7.2	104
29	91	114	130	148	171
71					

✓

95.6	97.2	98.9	98.8	98.4	96.9
8.7	7.1	5.4	5.5	5.9	7.4
66	78	100	120	144	174

✓

92.9	94.8	96.9	97.7	98.4	97.8	96.7
114	95	74	66	5.9	6.5	7.6
66	77	108	133	159	176	191

✓

81.2	86.5	90.2	94.1	97.0	97.6	97.3
23.1	17.8	14.1	102	73	6.7	7.0
46	81	105	129	157	174	190

Sta	+	π	-	Elev
		904.30		

1 +91

(68.1)

2 +10

+35

T.P. 0.69 885.24 19.75 884.55

1 +91

(68.1)

2 +10

+35

+42

+55

10

P

✓ 85.0 91.0 93.4 96.3 95.9 94.1
193 133 109 8.0 8.4 10.2
100 140 162 185 210 235

✓ 87.4 91.4 93.3 94.4 94.2 93.5 91.6
169 129 110 9.9 10.1 10.8 12.7
157 182 200 216 233 252 268

✓ 85.0 87.1 89.6
193 17.2 14.7
200 221 257

✓ 79.1
6.1
60

✓ 73.0 79.3 82.1
12.2 5.9 3.1
60 100 124

✓ 67.4 71.9 76.6 78.6
17.8 13.3 8.6 6.6
73 100 136 158

67.3

Grad E Cor Ho = 17.9
102

71.0 73.1
14.2 12.1 8.7 7.2 5.2
136 160 200 227 26

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

		885.24		
--	--	--------	--	--

2 +68

B.M.

20.32

884.92

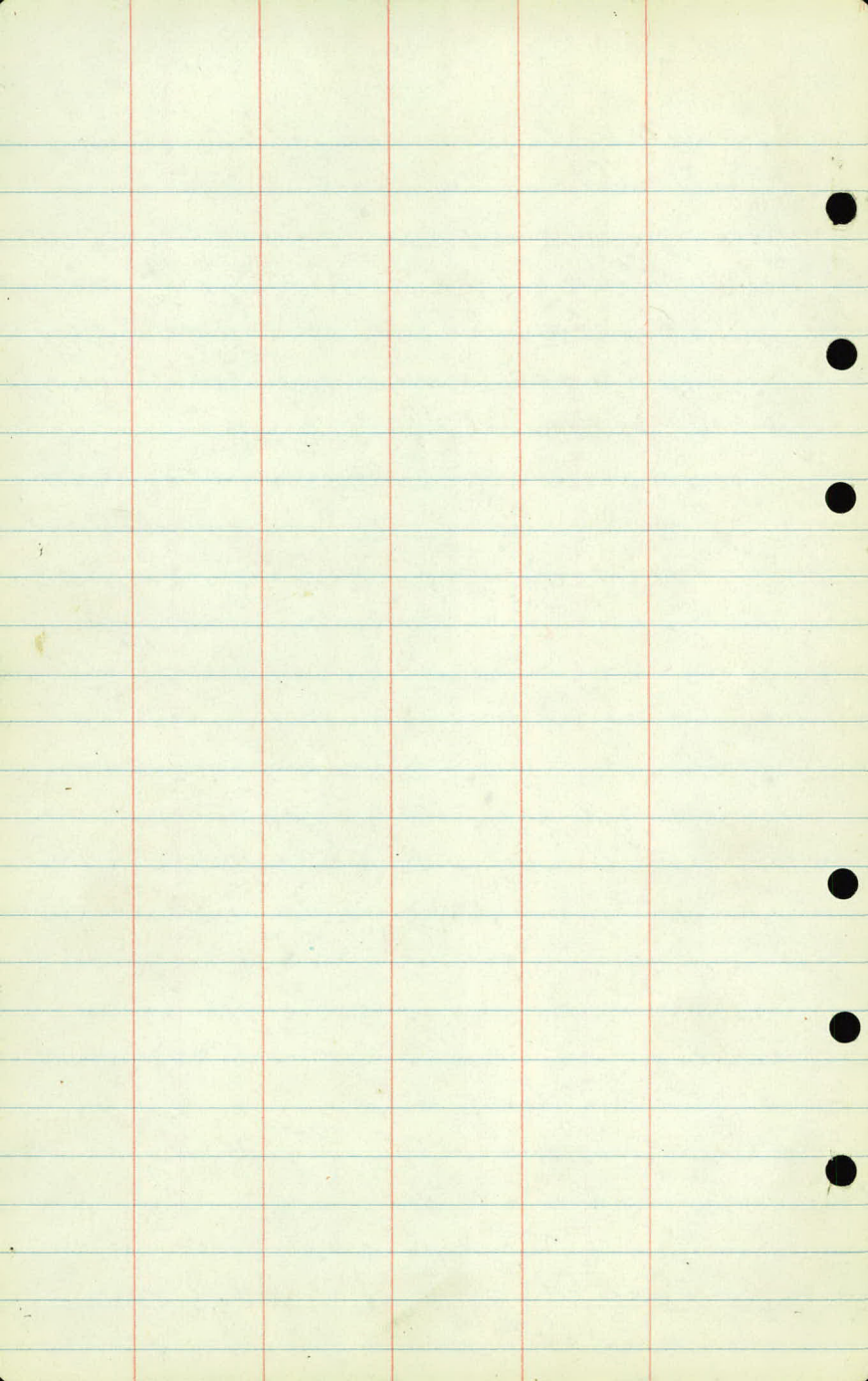
✓
864.76

E

R

67.1

Gr. of E. Cor. Ho. 18.1
187



1946

DECEMBER

1946

Monday

2

1+95 Lt - Rem - P/ae

2+13 Lt - Rem M.H.

2+13 Lt - Pl M.H. Side Inlet

1+39-2+13 Lt. Inst 18" C.M.

2+13 Lt - 2+29 Rt. - Rem V.T.P.

* Pl. 18" Conc.

2+13 Lt. Pl 3 CY. Rub Gutter

2+29 Rt. Pl. 5 CY. " "

2+05 Lt. Rem 2 CY. " "

Tuesday

3

2+81 Lt - Rem.

4+83 Rt. - Rem ^{Culv} ~~Wall~~ ~~20' x 150'~~~~4+83 Rt. - Rem~~ ^{Rem L Wall - 20' x 150'} Berm

5+50 - Bl. Top emit - 13 to 15 ft

20 x 150

~~5+20~~ - 9+57 - O.K. L.V.

11+75 L to 11+95 L - Rem -

12+12 Lt - Leave

12+91 Rt - No Culv Req'd.

Wednesday

4

17+05 Rt " " "

17+84 " " " "

18+61 " " " "

20+93 - ext

22+40 Rt - O.K. Leave

23+24 " " "

26+03 Rt - Rem

26+50 " "

26+27 Lt - Rem - Rep 15" 80' C.M.

26+72 - 16' Lt Pl - C.B.C.I.

1946

DECEMBER

1946

Thursday

5

• Rem
 28+26 Rt. No Culv Regd.
 29+43 " " " " "
 30+61 " " " " "
 31+56 Lt. No Culv Regd.

32+24 Rt. - No Culv Regd.

33+28 Rt. - Rem. No Culv "

34+29 Lt. " " "

34+62 " " " "

35+71 " " " "

Friday

6

35+88 Rt. - O.K. Lv.

36+02 Rt. - Ext pipe from

35+88 Rt. - 30' North

37+36 Lt. O.K. Lv.

37+87 Lt. - O.K. Lv.

38+68 Rt. No Culv Regd.

39+45 Rt. - O.K. Lv.

39+65 ♀ O.K. Lv.

44+24 Lt. O.K. Lv.

Saturday 45+05 ♀ O.K. Lt. ext.

7

45+62 ♀ Abandon

45+05 to 45+62 Lt. Sp. Rt. Grade

45+66 ♀ Rem. Pl. 18" Conc.

54+36 Lt. Rem + Repl.

55+00 Rt. - No Culv Regd.

Brq. Repl. N.E. end.

55+05 to 57+50 Rem G. Rail

Repl. with Conc Posts.

Sunday

8

1946

DECEMBER

1946

Monday

9

55+30 to 56+75 Rt. Rem G.R.

Repl. Conc Posts.

59+25 ϕ - O.K. L.V.

58+83 Rt. O.K. L.V.

60+16 Rt. Rem - Pl. 15" x 30' CM.

61+11 Rt. " " " " 20 "

63+25 Rt. - No Culv. Req'd.

also Bl. Top Drive 50 Back

69+14 Rt. - O.K. L.V. Bl. Top Drive

Tuesday

10

66+38 Rt. O.K. L.V. Bl. Top Dr.

70+00 - Abandoned

70+30 ϕ O.K. L.V.

69+00 to 78+50 Pres Top

to be scarified prev. to raise fill

also stab new fill with oil

75+83 ϕ - ext

76+20 Rt. - O.K. L.V.

76+61 Rt. - Rem - Pl. 15" CM.

Wednesday

11

76+72 Lt. Pl. Rem Pl 15" CM.

Guard RR "C" to Big

Rt. to be repaired & painted

85+50 ϕ Rein - no culv

req'd -

85+62 Rt Pl. 15" x 30 CM.

& Bl. Top Driveway.

1946

DECEMBER

1946

Thursday

12

88+00 Rt. rem P. Pole

88+25 - 4 Cor of Right to
be filled & rip sloped

Bef. Top to cut-rail

to rail, eliminating
walks.Lay new grade over
bridge & approaches.

set & repl guard Rail.

Friday

13

91+20 - no Culv. reqd.

91+50 92+30 Rt. - Gully Stop.

92+40 Rt. No Culv. Req'd.

96+80 ϕ O.K. L.V.

97+39 Rt. - No Culv. Req'd.

101+42 Rt. no Culv. reqd.

103+30 ϕ - Ext. as necessary.

103+35 Lt. Const. Limestone pit

104+43 Lt O.K. L.V. 25 C.Y.

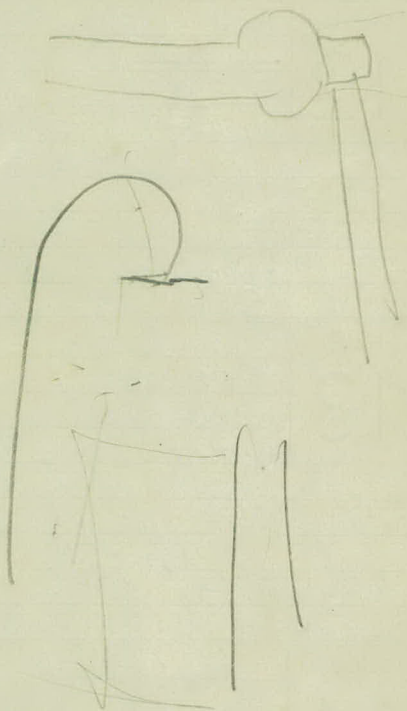
Saturday

14

up hill - gutter at C.B.

Sunday

15



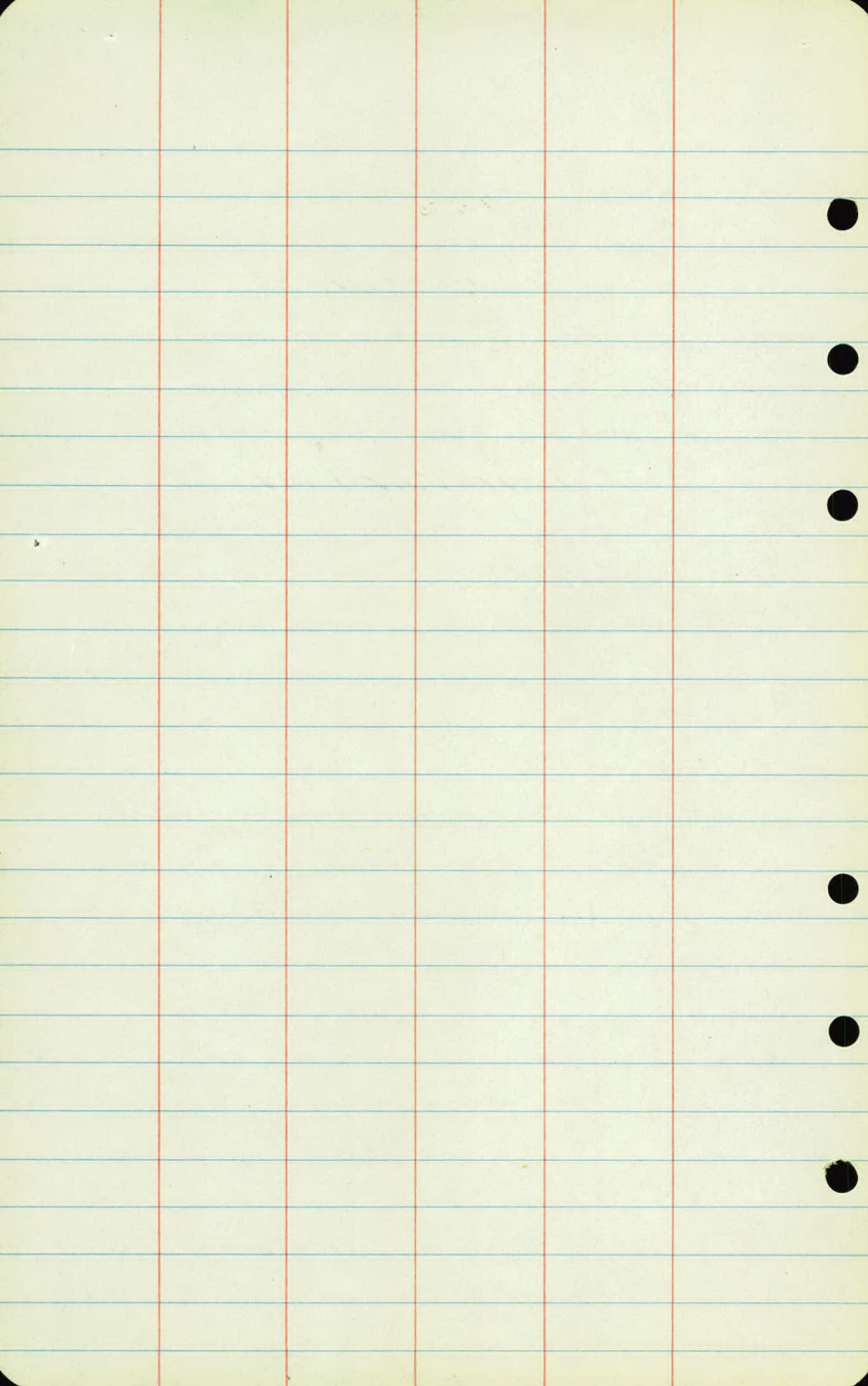
PLAN SURVEY

KELLER PKWY

LINE REVISION

sta 61 to sta. 69

Rec 9/20/48



1
Alignment
Line Revision

stationing backed in from
the north using 1944 Plan
Survey

Sta.	Point	ΔLt	ΔRt
+99.57	P.T.	2°085'	
+50		1°386'	$\Delta-4°17'$
68		1°086'	$D-2°-$
+92.55	P.I.		$T-107.15$
+50		0°386'	$L-214.17$
67		0°086'	
66 +85.4	P.C.	0°00'	

+68.41	P.T.	11°36'	
+50		10°49'	
65		8°41.5'	$\Delta-23°12'$
+50		6°34'	$D-8°30'$
+33.97	P.I.		$T-138.5$
64		4°26.5'	$L-272.94$
+50		2°19'	
63		0°11.5'	
62 +95.47	P.C.	0°00'	

9-17-48

2

L

E

R

98.8

Cor. Fe.

Post.

106.61'

36.30'

O.P.P.

Nail

2"x2" Hub

86.41'

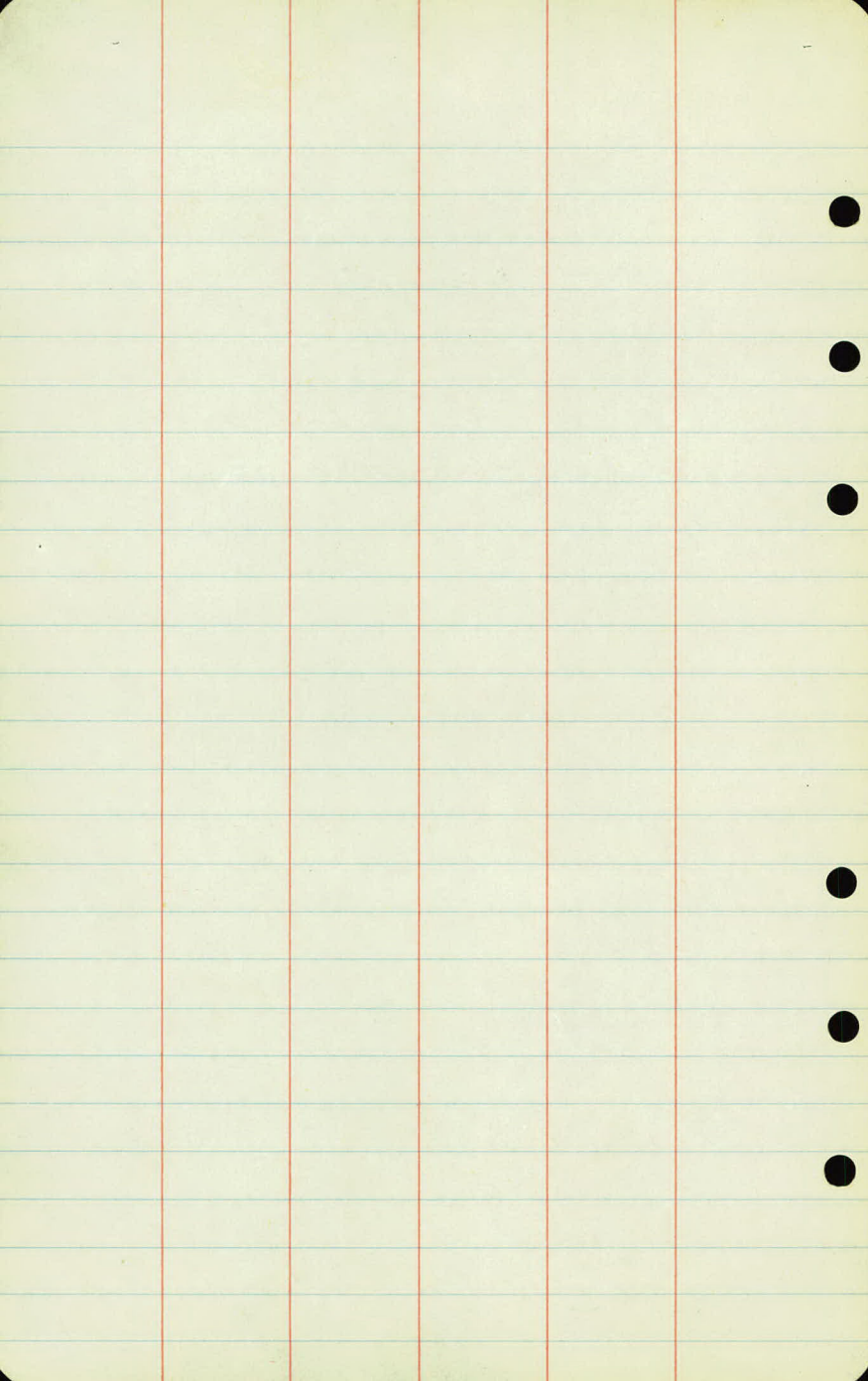
O.P.P.

72.50'

O.P.P.

62.02'

O.P.P.



Topography
Line Revision

For additional detailed topog.
see 1944 Plan Survey.

+80-18" Pop-40
+77-PP30

+39-Ent- 15" X 22" C.W.
33'

66 Lake-75'

2-24'

+80-15" Pop-49'

5-27'

+35-16" Pop-56

65 Lake-50

6-28
+02-PP-41'

+50-Lake-39'

4-26

64 Lake-41'

0-20

+72-G.P.-20'

+72-PP-25'

5' 15

+25-Ent-

63 Lake-55

9' 13'

+90-36" Cor.H.-47'

+70 Cor.H.-80'

11' 12'

62 +07-G.P.-27'
Lake-47'

10

+19-SW Cor.H.-70'
+07-PP-21'

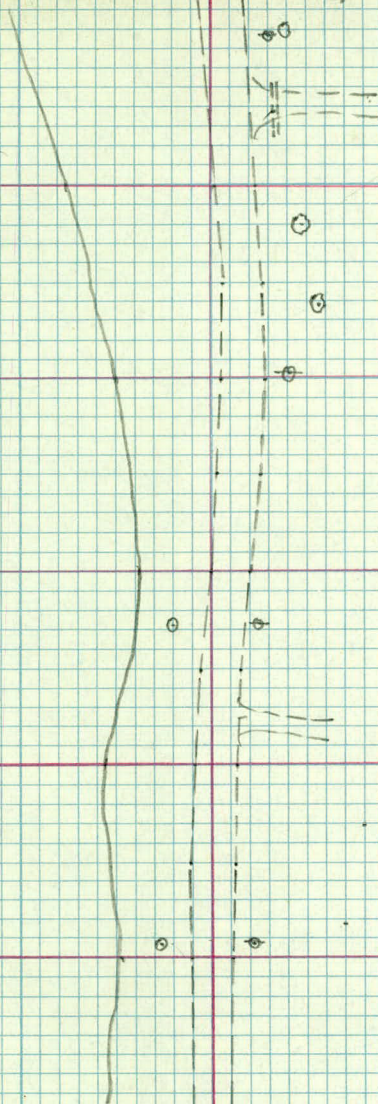
11'

61

10' 10'

Gervais

Lake



69

10' 11'

+58-6" TW E/10-30'

+46-6" BE-32'

+22-PP-23'

+12-ENT-

68

9' 12'

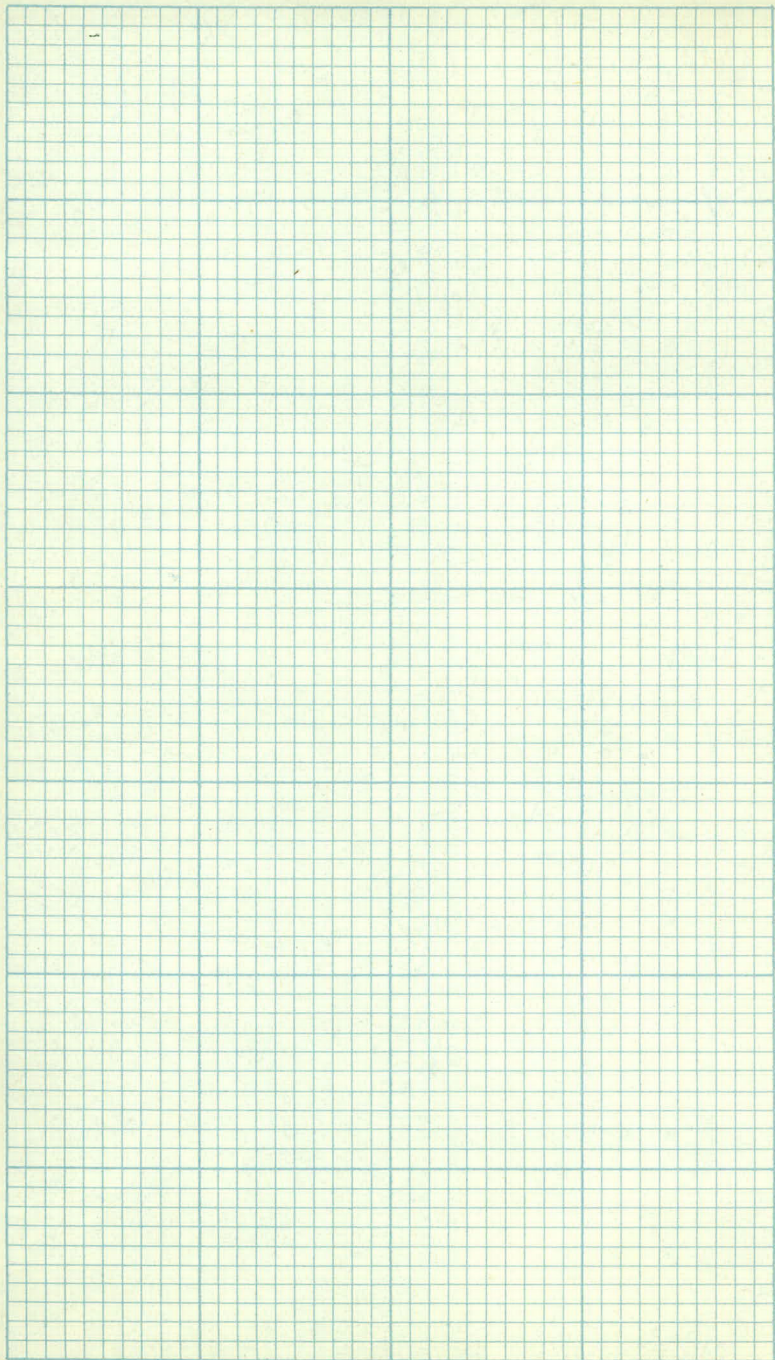
+54-5tp-29'

+38-5tp-32'

67

5' 19'

5



6
XSECTIONS

LINE REVISION

Sta.	+	π	-	Elev.
B.M.	594	870.22		864.28

61			6.4	63.8
----	--	--	-----	------

+50			6.0	64.2
-----	--	--	-----	------

62				64.4
----	--	--	--	------

+50				64.5
-----	--	--	--	------

+75				64.6
-----	--	--	--	------

63				64.7
----	--	--	--	------

+28				64.6
-----	--	--	--	------

+31				64.6
-----	--	--	--	------

9-17-48

7

L

E

R

Top Conc. Footing at Cor. Fe. Post 33' Lt. Stn. 68+92

W.S.
858.32

11.9	9.1	8.1	7.9	6.6	6.3	5.8	6.3	6.5	+5.0	+9.7	L.O.
51	45	28	18	13	10		11	20	40	60	

11.9	8.6	7.5	7.8	6.6	6.2	5.7	6.1	5.5	+6.2	+7.5	+10.0
48	43	30	20	11	10		12	20	46	51	67
		28									

11.9	9.3	8.7	8.0	6.5	6.2	5.6		5.9	5.6	+8.5	+3.0	+3.7
54	52	31	20	10	9			12	21	37	41	42
											60	

11.9	9.8	8.5	8.1	6.6	5.8	5.5	5.8	5.6	0.6	0.6	+2.5	+4.5
51	49	41	17	11	5		14	22	30	43	48	66

11.9	9.3	8.9	8.0	6.5	5.6			5.6		3.6	0.5
45	40	28	16	9				10		37	60

11.9	9.2	8.9	8.0	6.5		5.6	5.5	5.6	3.8	+1.0	+11.5
45	40	28	16	9		3	10	39	42	60	L.O.

Sta	+	π	-	Elev.
		870.22		

63	+50			
----	-----	--	--	--

				64.4
--	--	--	--	------

64				
----	--	--	--	--

				64.3
--	--	--	--	------

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

				63.4
--	--	--	--	------

65				
----	--	--	--	--

				62.8
--	--	--	--	------

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

				63.8
--	--	--	--	------

66				
----	--	--	--	--

				65.1
--	--	--	--	------

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

				65.6
--	--	--	--	------

67				
----	--	--	--	--

L

E

R

W.S.

11.9 9.1 86 80 6.2 5.8 56 57 4.6 00 +11.5 +12.5
 43 37 22 13 7 4 13 31 45 68 75

11.9 8.7 84 76 6.1 5.9 55 56 6.0 3.9 2.9 +12.0 +13.0
 40 37 14 6 2 9 22 35 38 48 69 95

11.9 8.7 86 78 6.8 5.9 56 52 55 6.1 7.1 +11.2 +12.2
 43 32 17 7 15 5 18 26 32 35 39 69 95

11.9 8.7 85 74 5.7 5.4 50 5.7 6.8 3.4 +8.0 +10.0
 51 45 22 4 7 16 33 35 39 49 60 69

11.9 9.3 79 73 6.4 5.6 51 4.7 5.4 6.5 +8.3 +9.3
 64 59 25 5 3 7 16 33 36 41 67 90

8.2 7.9 70 6.0 5.1 4.7 4.4 4.8 5.9 1.1 +7.0 +8.5
 50 38 10 3 4 12 28 33 37 55 64 90

8.1 7.4 71 6.2 4.8 4.6 4.2 4.3 4.1 4.8 4.6 +5.6 +7.5 +9.5
 50 31 14 8 3 7 17 24 28 40 57 63 88

Sta	+	π	-	Elev
		870.22		

67	+50			66.1
----	-----	--	--	------

65	+50			66.5
----	-----	--	--	------

68	+50			66.5
----	-----	--	--	------

+12 Profile of ext. H.				66.4
------------------------	--	--	--	------

+50				66.2
-----	--	--	--	------

69		4.3		65.9
----	--	-----	--	------

B.M.		5.94		864.28
------	--	------	--	--------

L

Q

R

✓

78 71 60 45 41 39 42 42 50 29 +70 +85
50 29 14 7 7 17 22 27 31 40 54 80

✓

7.4 6.7 6.4 5.4 4.8 3.7 3.7 4.0 3.2 +9.0 +10.5
50 36 21 14 9 6 16 25 68 99

6.9 6.3 5.8 5.2 4.2 3.7 3.8 2.8 +2.7 +8.3 ✓
50 36 22 17 12 9 26 42 71 0

+9.5 1.5 3.8 3.9 3.8 → R+ ✓
75 33 14 8

✓

7.0 6.3 4.8 4.4 4.0 4.2 4.9 5.7 5.8 +1.8 +3.1
50 23 14 10 10 17 21 28 36 60

Sta

+

π

-

Elev.

PK
CM

Oct. 7, 1969

Wall in Gervias Lake

Sta + Δ - Elev

BM 0.29 866.63

(866.34)

Water S. 5.98 862.87 9.74 856.89

Ground at S.W. Corner 5.3 857.57

Wall S. W. Corner 3.32 859.55

" " E. " 3.38 859.49

Ground " " " 5.2 857.67

" N.E. Corner 3.7 859.17

Wall " " " 3.50 859.37

" N.W. Corner 3.16 859.71

Ground " " " 3.2 859.67

Oct. 7, 1969

2

Spike in 6" Catulpa

N.E. Corner = 37' from $\angle$ of
Keller Parkway

N W Corner = 35' from $\angle$ of
Keller Parkway

