

BK 36 Dr 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Sewage Disposal Survey

Keller Golf Course

From..... To.....

Road Acc't. No.

Date Filed..... File.....

B. 36 Dr 16

Alignment

SEWAGE DISPOSAL

KELLER GOLF COURSE

Done By
AWL

Sta.	Point	ΔLt	ΔRt
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3	+25	P.I. = C.B.	$16^{\circ}12'$
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At 1	+55	P.I.	$33^{\circ}25'$ = Fore tang.
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	+55	P.I. = Hub.	$17^{\circ}01'$ = Turning Pt.
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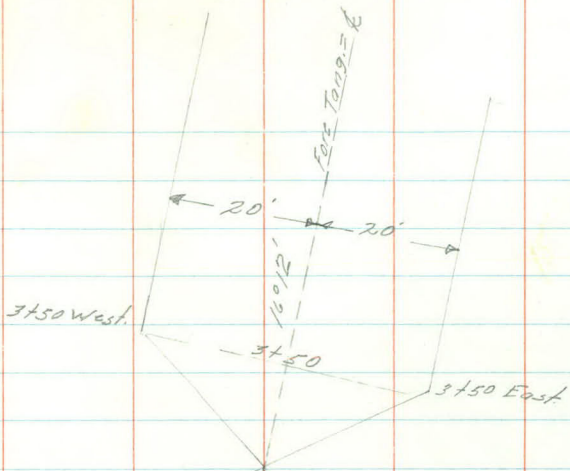
	+30	P.I.	$22^{\circ}42'$
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1	+05	P.I.	$27^{\circ}22'$
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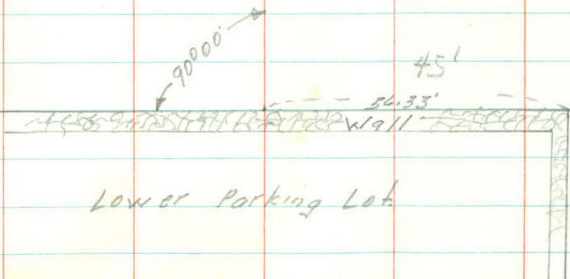
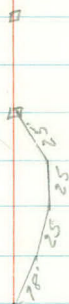
	+80	P.I.	$30^{\circ}19'$
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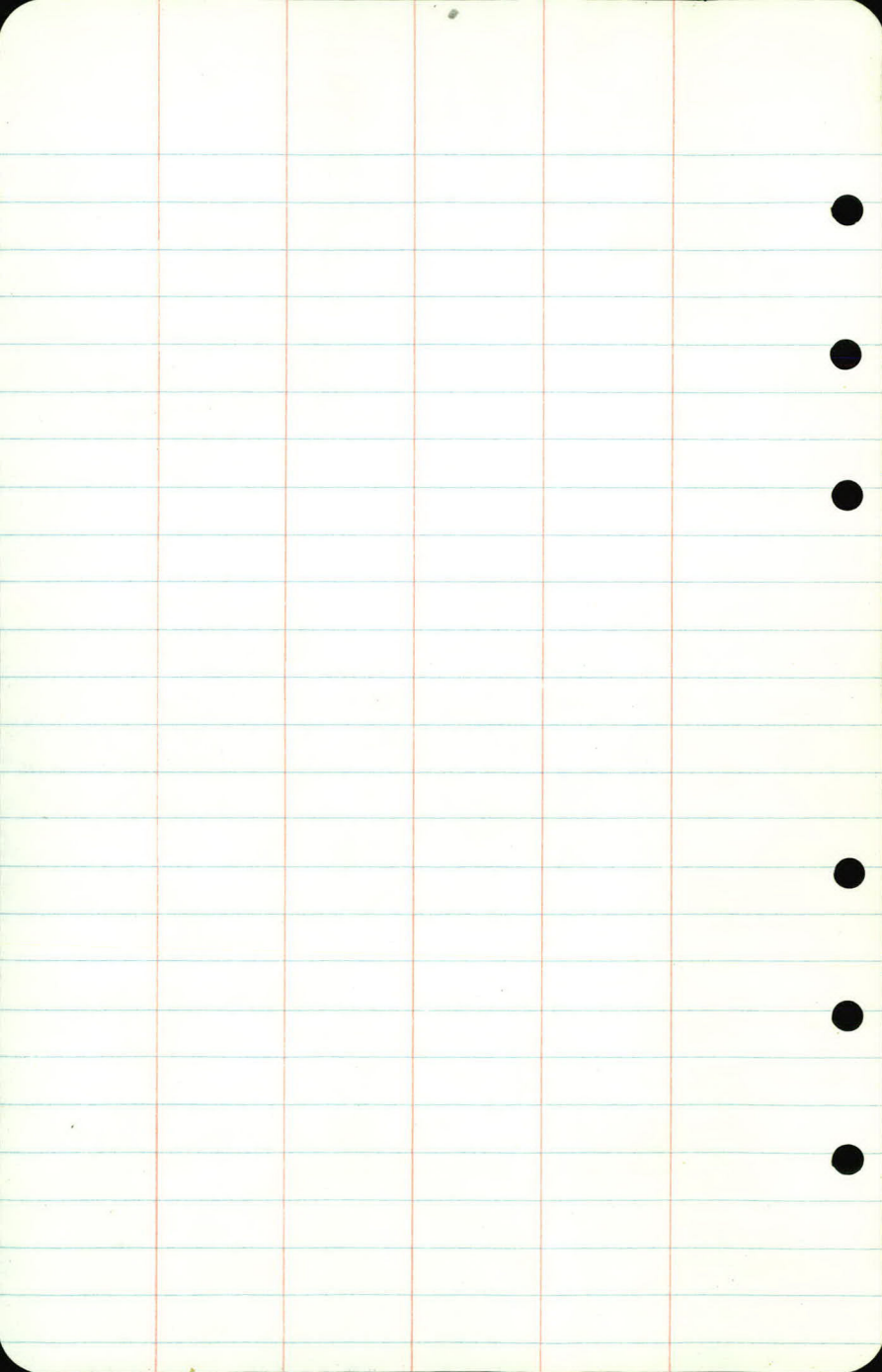
0	+02	P.I.	$0^{\circ}00'$
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0	+00	= k proposed Tie Line	
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Back sight = top of 0 to 2





Levels.

Sta	+	Σ	-	Elev.	
B.M.	3.92	922.24			(918.32)
T.P.	2.90	920.44	4.70	917.54	
B.M.			6.39	914.05	
			4.44	916.00	
				909.5	
			4.62	915.82	
			4.51	915.93	
0	+00		4.38	916.0	
0	+00		9.1	911.3	
	+02		9.6	910.8	
	+06		10.5	909.9	
	+25		15.2	905.2	
T.P.	2.28	909.62	13.10	907.34	
	+50		7.1	902.5	
	+63		8.2	901.4	
	+80				
T.P.	0.06	899.00	10.68	898.94	

*
Description

Keller

Top Corb 3.5' s. and s. s. m. of Door at Wide Creek in S.W. Club Ho.

Top N.E. Cor. Wall of Lower Parking Lot

= Elev. Top Tank

= " Flow Line proposed Tile Line

TOP FOOTING - TIN HOUSE. N.W. COR.

" " " " S.W. COR.

Top Wall.

Top Ground at Wall.

$$\begin{array}{r}
 00.2 \quad 98.0 \quad 95.6 \\
 94 \quad 116 \quad 140 \\
 \hline
 5' \quad \quad \quad 5'
 \end{array}$$

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

899.00

1 +05

+30

+55

+80

2 +05

T.P.	1.09	886.43	13.66	885.94
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+30

+55

+80

+97

T.P.	3.47	876.69	13.21	873.22
------	------	--------	-------	--------

3 +05 4.4 872.3

+25 5.0 871.7

Lt.

Description

Rt.

$$\begin{array}{r} 97.3 \\ 1.7 \\ \hline 5 \end{array} \quad \begin{array}{r} 94.5 \\ 4.5 \\ \hline 5 \end{array} \quad \begin{array}{r} 91.3 \\ 7.7 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 95.7 \\ 33 \\ \hline 5 \end{array} \quad \begin{array}{r} 92.8 \\ 62 \\ \hline 5 \end{array} \quad \begin{array}{r} 89.8 \\ 9.2 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 95.9 \\ 3.1 \\ \hline 5 \end{array} \quad \begin{array}{r} 93.5 \\ 55 \\ \hline 5 \end{array} \quad \begin{array}{r} 90.6 \\ 8.4 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 93.4 \\ 56 \\ \hline 5 \end{array} \quad \begin{array}{r} 91.8 \\ 72 \\ \hline 5 \end{array} \quad \begin{array}{r} 89.7 \\ 9.3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 89.9 \\ 9.1 \\ \hline 5 \end{array} \quad \begin{array}{r} 88.6 \\ 18.4 \\ \hline 5 \end{array} \quad \begin{array}{r} 87.5 \\ 11.5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 85.3 \\ 11 \\ \hline 5 \end{array} \quad \begin{array}{r} 84.3 \\ 2.1 \\ \hline 5 \end{array} \quad \begin{array}{r} 83.5 \\ 2.9 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 80.7 \\ 5.7 \\ \hline 5 \end{array} \quad \begin{array}{r} 79.4 \\ 7.0 \\ \hline 5 \end{array} \quad \begin{array}{r} 78.6 \\ 7.8 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 76.0 \\ 10.4 \\ \hline 5 \end{array} \quad \begin{array}{r} 75.1 \\ 11.3 \\ \hline 5 \end{array} \quad \begin{array}{r} 74.4 \\ 12.0 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 73.4 \\ 13.0 \\ \hline 5 \end{array} \quad \begin{array}{r} 72.9 \\ 13.5 \\ \hline 5 \end{array} \quad \begin{array}{r} 72.5 \\ 13.9 \\ \hline 5 \end{array}$$

sta	+	π	-	Elev.
-----	---	-------	---	-------

		876.69		
--	--	--------	--	--

3	+50			
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	+75			
--	-----	--	--	--

4				
---	--	--	--	--

	+25			
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	+50			
--	-----	--	--	--

T.P.	12.37	888.24	0.82	875.87
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T.P.	12.86	900.68	0.42	887.82
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T.P.	11.67	912.13	0.22	900.46
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T.P.	9.73	921.75	0.11	912.02
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B.M.			3.45	918.30
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				(918.32)
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20' West

4

20' East

71.5

5.2

71.2

5.5

71.0

5.7

71.1

5.6

70.9

5.8

70.6

6.1

70.5

6.2

70.7

6.0

70.4

6.3

70.2

6.5

70.2

6.5

70.1

6.6

69.9

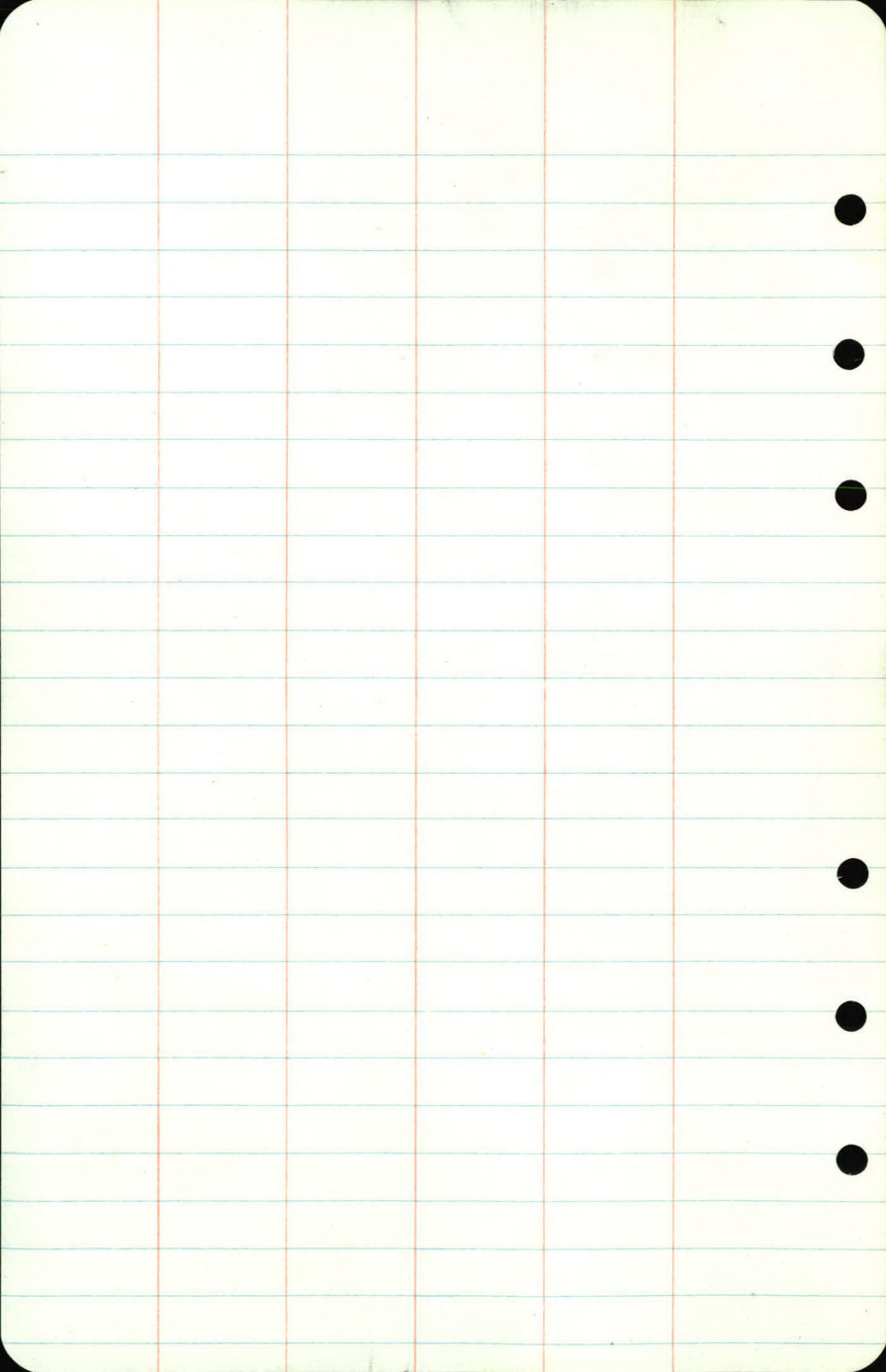
6.8

69.7

7.0

69.6

7.1



Staking Notes

Cesspool Drain Tile

Keller Caddy Ho

Sta	+	π	-	Grade
B.M.	3.41	921.73		(918.32)

T.P.	13.39	921.39	1373	908.00
------	-------	--------	------	--------

Top Tank-				916.00
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Inlet				912.25
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0	+03			0.60
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	+06			0.56
--	-----	--	--	------

T.P.	1.09	909.08	13.40	907.99
------	------	--------	-------	--------

	+25			02.9
--	-----	--	--	------

	+50			99.4
--	-----	--	--	------

	+80			95.2
--	-----	--	--	------

1	+05	Place M.H.		92.0
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	+30			90.6
--	-----	--	--	------

T.P.	1.10	897.15	13.03	894.05
------	------	--------	-------	--------

	+55			89.4
--	-----	--	--	------

	+80			88.2
--	-----	--	--	------

Gr. Rod $\frac{10}{4}$ $\frac{1}{2}$

Top curb at wide clearing s.w. at W. Door of Club Ho.

5.39

9.14

15.39

15.79

$$\frac{13.41}{+ 2.38}$$

6.18

$$\frac{4.48}{+ 1.70}$$

9.68

$$08' \frac{6.68}{+ 3.0}$$

13.88

$$05' \frac{8.48}{+ 5.4}$$

17.08

$$05' \frac{10.48}{+ 6.60}$$

18.48

$$05' \frac{12.08}{+ 6.4}$$

1.75

$$02' \frac{0.75}{+ 7.0}$$

8.95

$$05' \frac{2.25}{+ 6.7}$$

Sta	+	π	-	Grade
		897.15		

1	+90	Place M.H.		87.65
---	-----	------------	--	-------

2	+05			85.1
---	-----	--	--	------

	+30			80.9
--	-----	--	--	------

T.P.	0.27	884.16	13.26	893.89
------	------	--------	-------	--------

	+55			76.6
--	-----	--	--	------

	+80			72.4
--	-----	--	--	------

3		Place M.H.		68.95
---	--	------------	--	-------

	+25	Place Switch Box.		68.8
--	-----	-------------------	--	------

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

	+75			68.6
--	-----	--	--	------

4				68.5
---	--	--	--	------

T.P.	+25	Leaching Pit		68.3
		18.65	897.44	889.79

T.P.	13.32	910.50	0.26	897.18
T.P.	11.61	921.64	0.47	910.03

B.M.			3.32	918.32
------	--	--	------	--------

(918.32)

Gr. Rod

 $\frac{10'}{LH}$

K

 $\frac{10'}{LH}$

9.50

 $\frac{10}{LH} \frac{350}{+6.0}$

12.05

 $\frac{16.05}{+6.0}$

16.25

 $\frac{1085}{+5.40}$

7.56

 $\frac{2.66}{+4.90}$

11.76

 $\frac{6.96}{+4.80}$

15.21

 $\frac{10.71}{+4.50}$

15.36

 $\frac{12.26}{+3.1}$ $\frac{12.46}{+2.9}$

15.46

 $\frac{12.76}{+2.70}$ $\frac{12.96}{+2.50}$

15.56

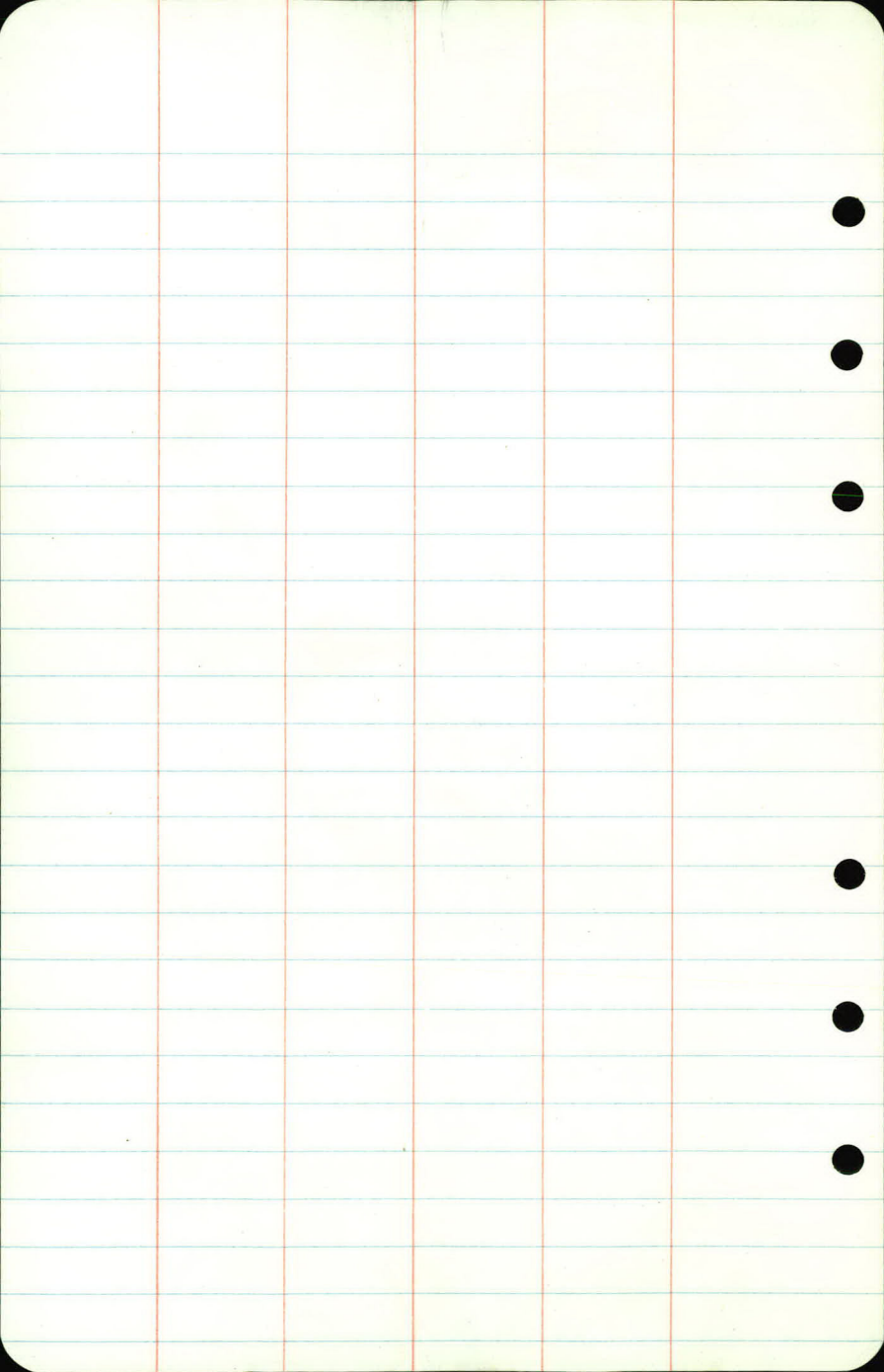
 $\frac{13.06}{+2.5}$ $\frac{13.26}{+2.3}$

15.66

 $\frac{13.56}{+2.1}$ $\frac{13.56}{+2.1}$

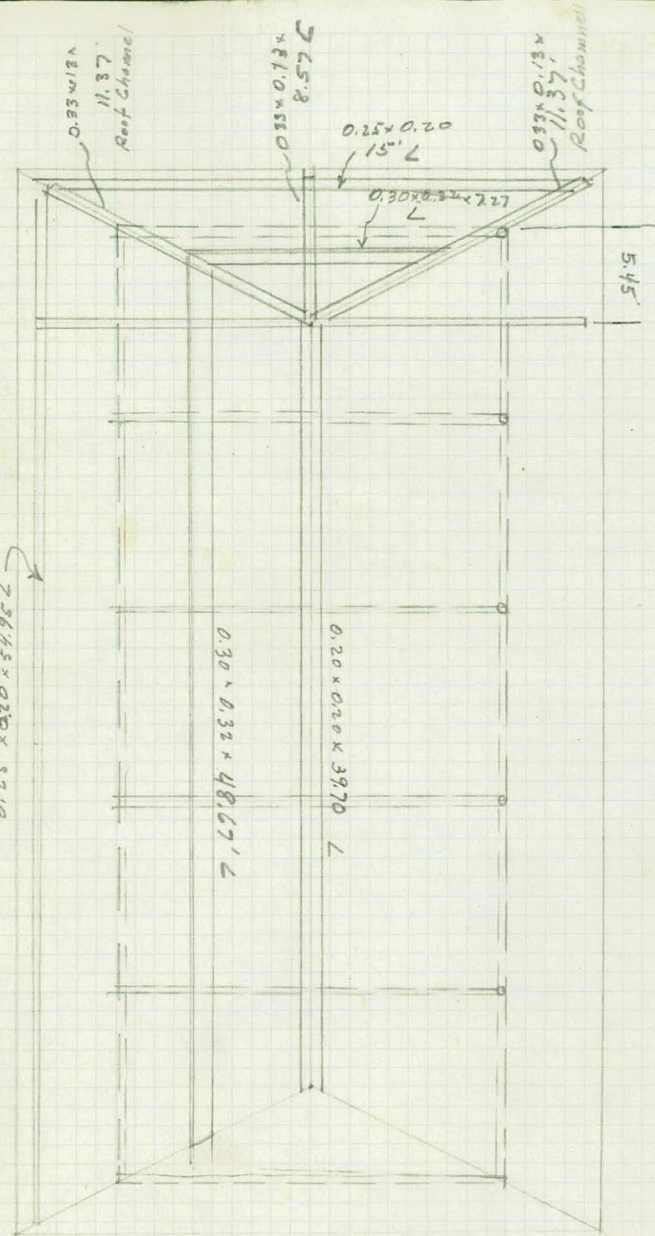
15.86

 $\frac{13.76}{+2.1}$ $\frac{13.76}{+2.1}$



ROOF PLAN

7.5645 x 0.20 x 52.0

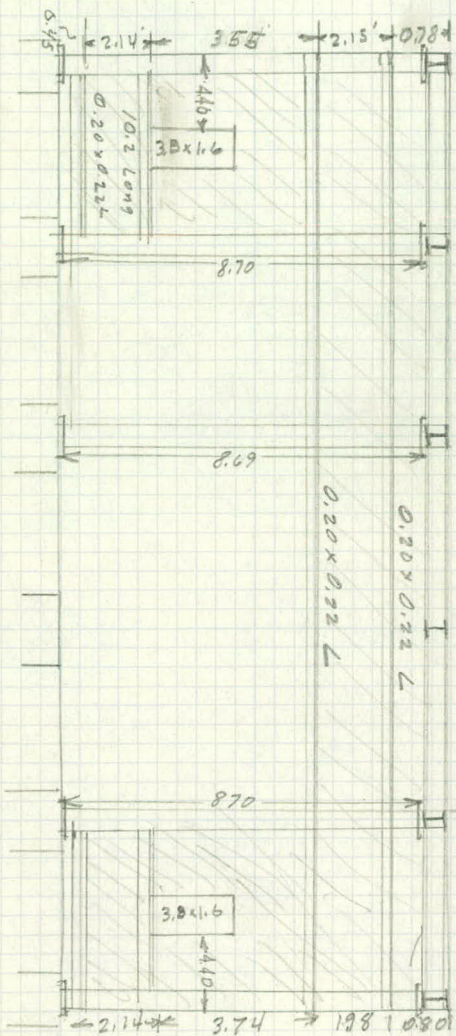


Done HSB 5/7/40



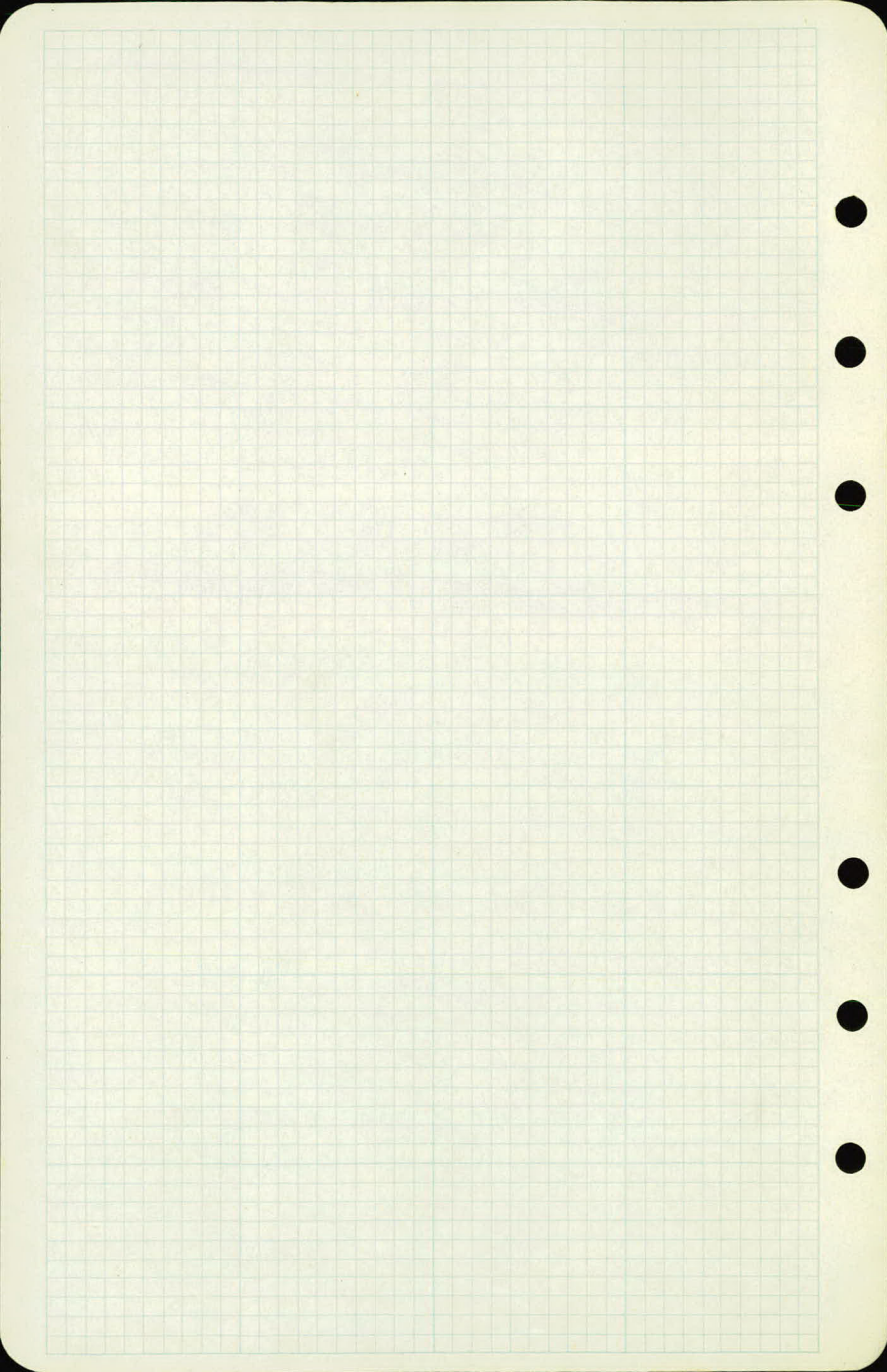
1227
10.35'

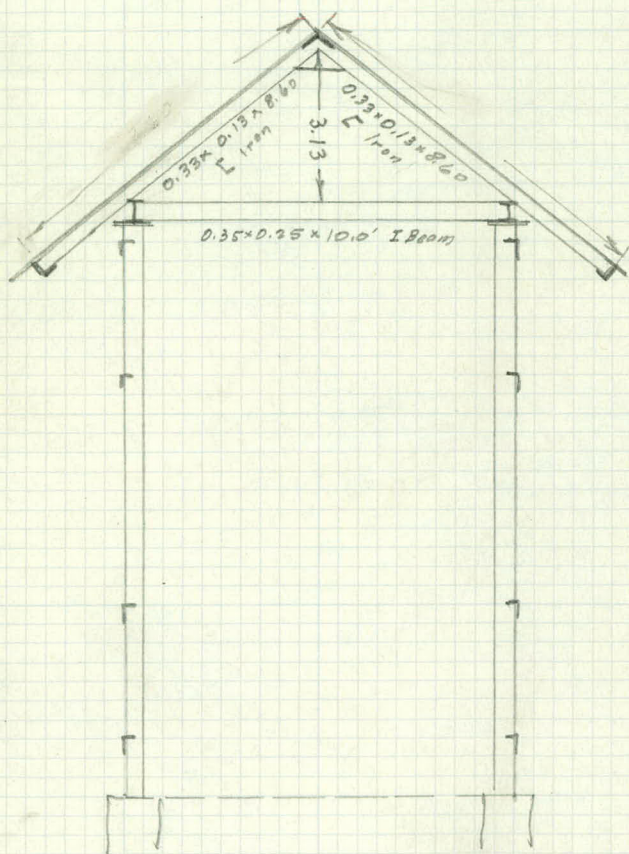
Section of I Beams



WEST WALL ELEVATION







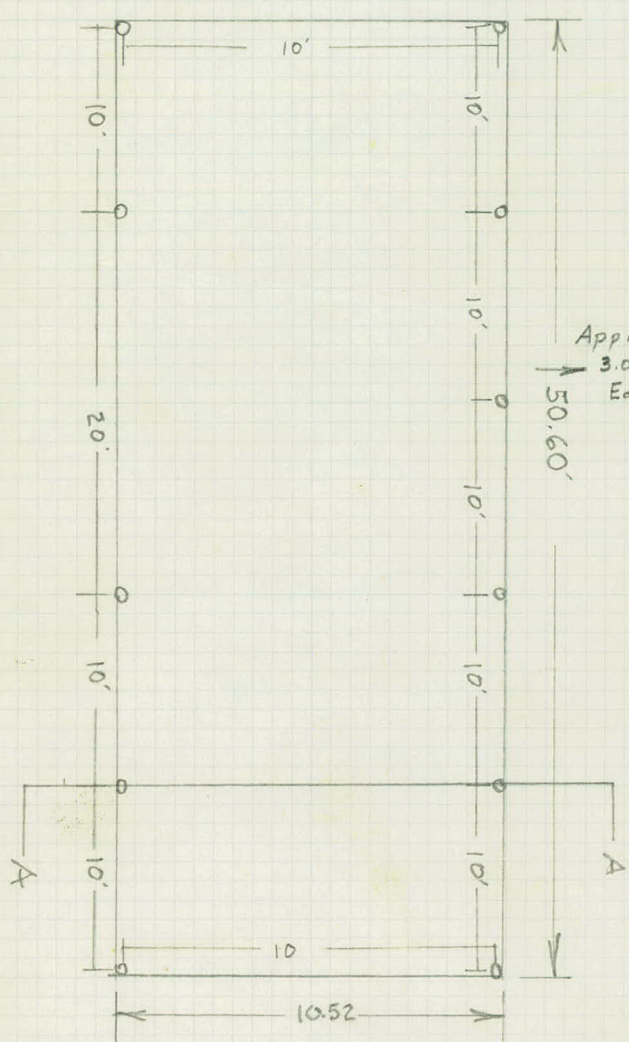
SECTION THRU A-A

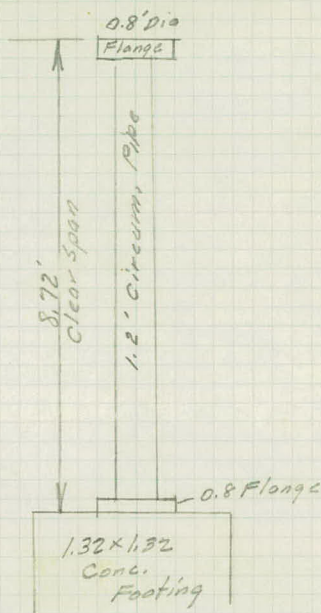


$$\begin{array}{r}
 50 \\
 10 \\
 \hline
 3 \overline{) 500} \\
 \underline{27} \\
 167 \\
 \underline{162} \\
 50
 \end{array}$$

22

FLOOR PLAN

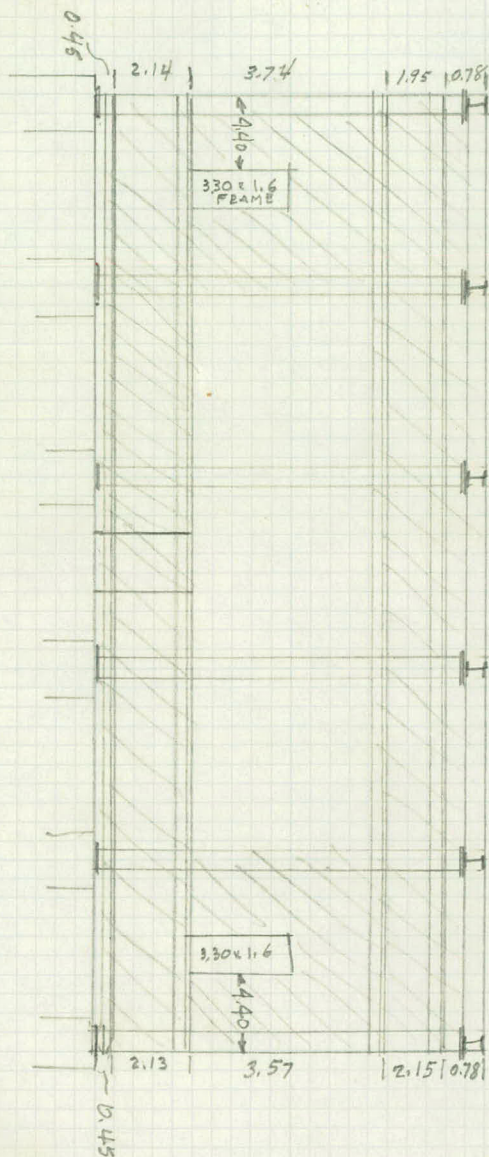


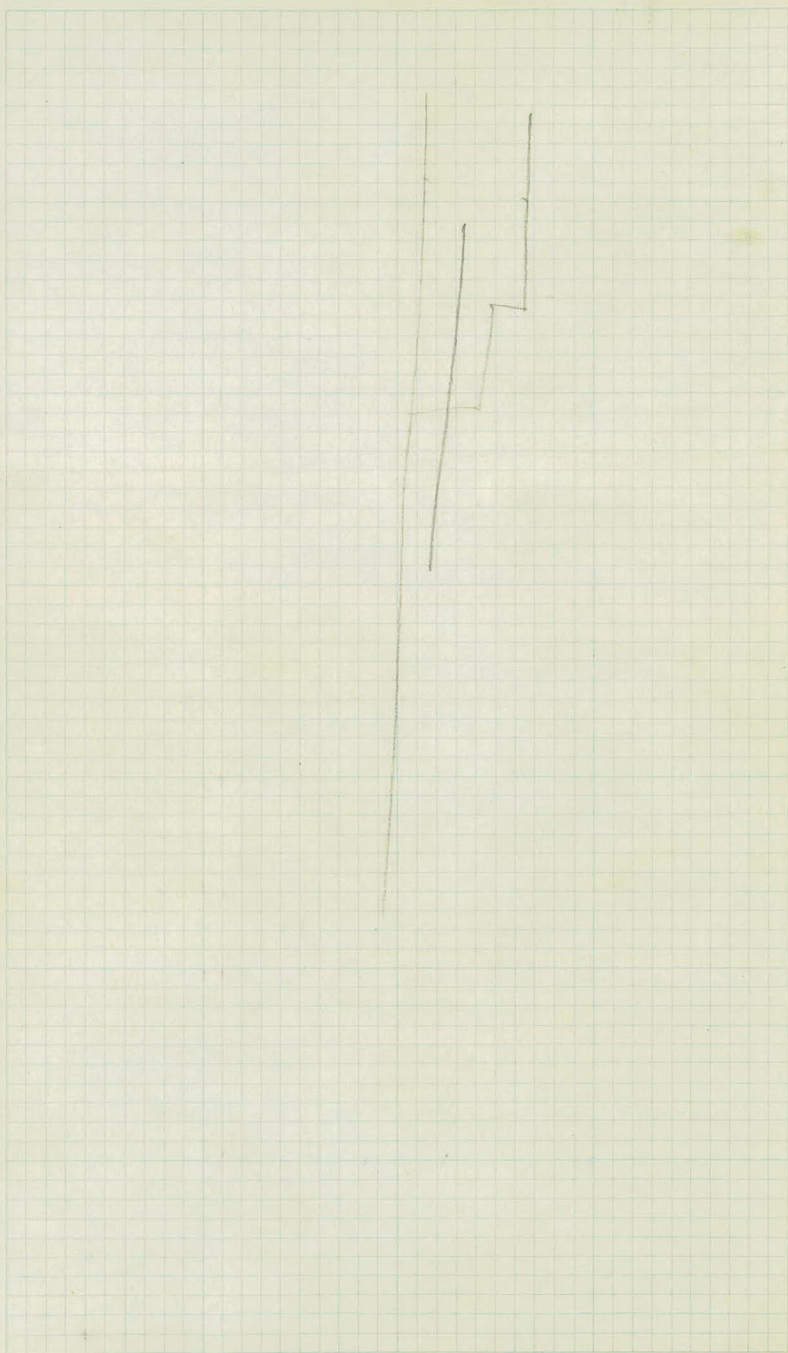


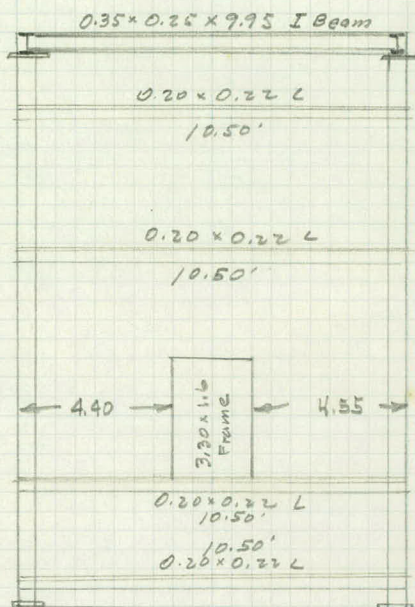
Sample section Thru Col.

See Elevations
for Heights

EAST WALL ELEVATION







SOUTH & NORTH WALLS
ELEVATION

