

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

PLAN Survey

PARKWAY DRIVE

From LARSEN To TH. 61

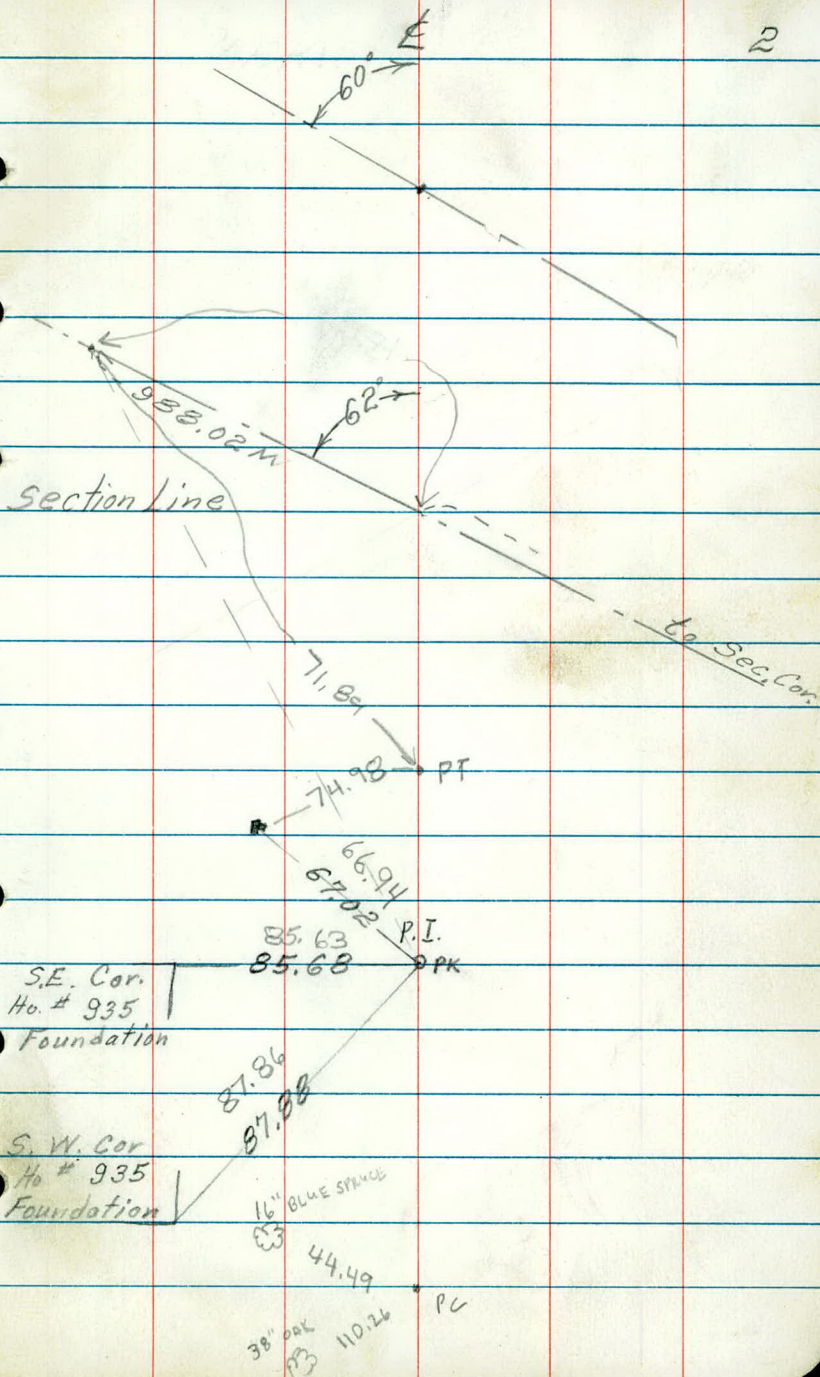
Road Acc't. No. 27

Date Filed 4-7-81 File _____

1
PARKWAY DRIVE

from Larpenieur to T.H. №61

Sta	Point	Δ LT	Δ RT	
19+ ^{.54} 93.65	T.H. 61			
19+65.10	POT			
19+60.26	PT	14° 31' 30"	$\Delta = 29° 03'$	
+50		13° 29'	$D = 20° 10' \frac{1}{2} \text{ ARC}$	
19+00		8° 26' 30"	$T = 73.58$	
18+89.85	PI		$L = 143.99$	
+50		3° 24'	$R = 284'$	
18+16.27	PC	0° 00'	25' chord = 24.99 50' chord = 49.94	



77.06

PP

131.10

HYD

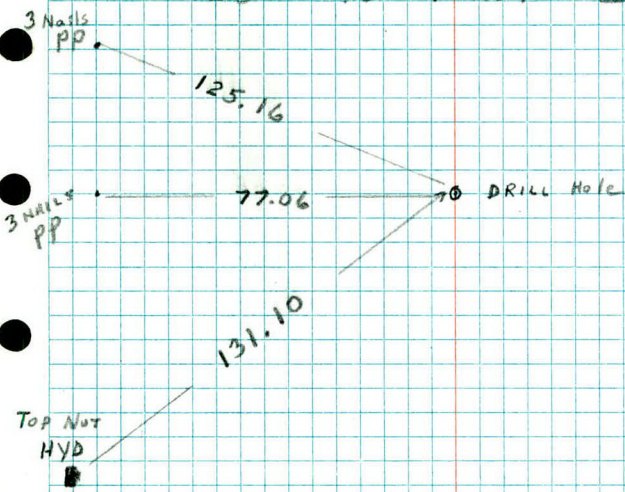
125.16

GA
DS
LPD
RJ

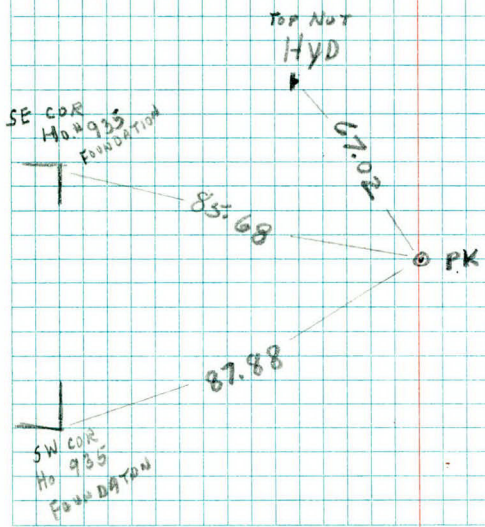
12-15-75
-6° clear

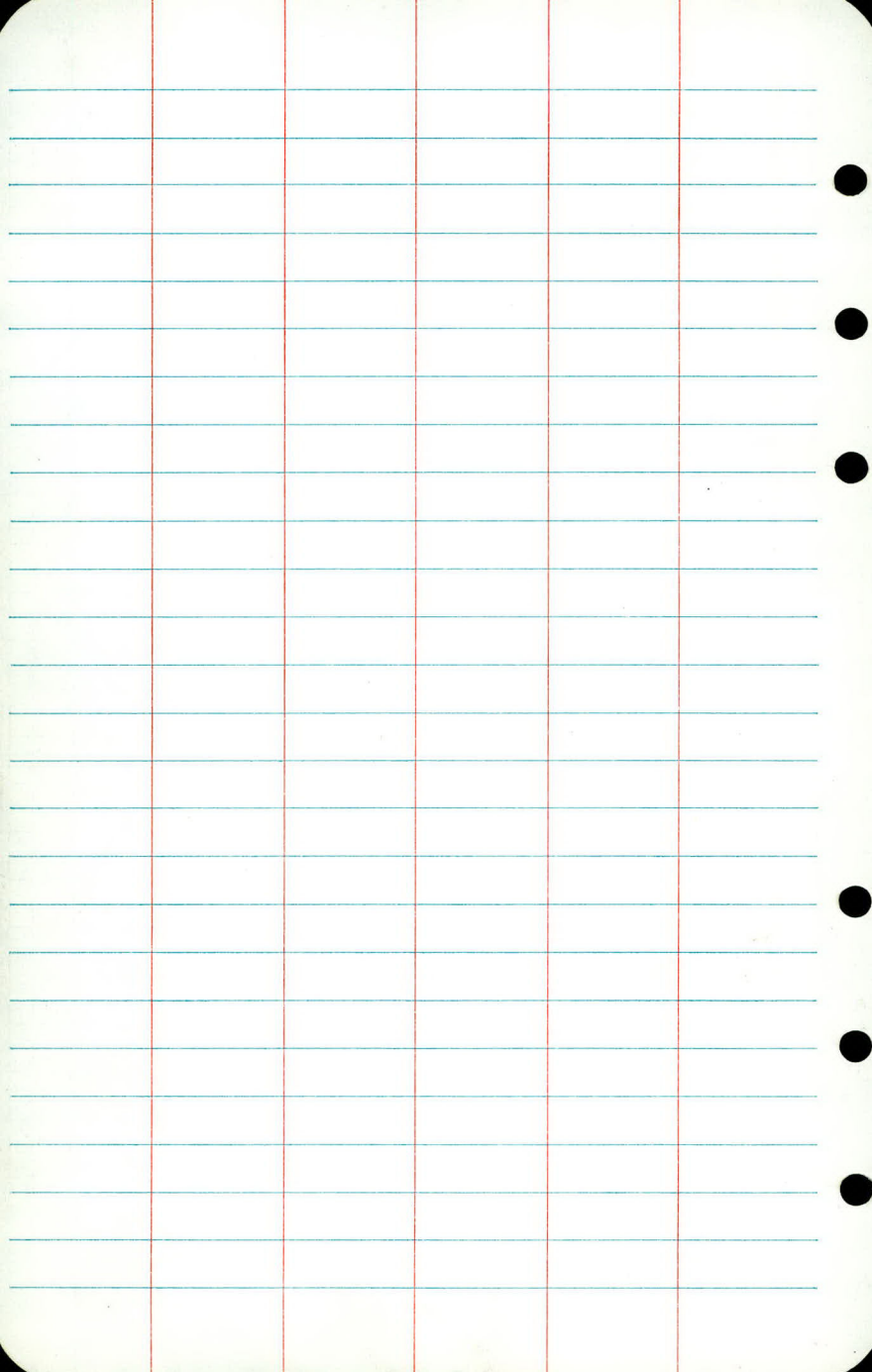
3

TIES TO POINT 1



TIES TO P.I Sta 18+89.85





PARKWAY DRIVE

Co. RD. # 141 CONST.

TOPOGRAPHY

STA. 15+00 To 20+00

5 PAGES

LT

E

RT

+50

+43 $\frac{\text{COR HO}}{55}$ 71+42 $\frac{15}{2}$ BIT ENT+33 SW COR HO
55+09 $\frac{36 \text{ LAK}}{35}$ +03 $\frac{\text{PP}}{23}$

17+00

CURB
22+81 SE COR HO
57+69 $\frac{\text{COR HO}}{57}$ +63 $\frac{4-4 \text{ "Direct}}{44}$

+50

+43 SW COR HO
64+21 $\frac{\text{PP}}{24}$ +09 $\frac{15 \text{ CONC ENT}}{22-32}$

16+00

+86 $\frac{8-6 \text{ "ELM}}{52}$ +80 $\frac{3 \text{ "PINE}}{61}$ +76 $\frac{3 \text{ "PINE}}{67}$ +71 $\frac{\text{TOTAL PINE}}{73}$

+50

+56 NE COR GATE
83EWALL
+29 66+29 SE COR GATE
66+08 $\frac{\text{BE WALL}}{52}$

15+00

+10 $\frac{\text{GATE ENT C}}{22}$

6.7 DW

33-48

+15 $\frac{\text{COR HO}}{61}$ +15 $\frac{\text{BIT}}{45-60}$ CURB
22+93 SW COR HO
72+80 $\frac{8 \text{ "CATA}}{62}$ +49 $\frac{\text{CURB}}{27}$ +27 $\frac{5 \text{ "BE}}{50}$ +26 $\frac{15 \text{ "BE}}{60}$ +21 $\frac{10 \text{ "BE}}{52}$ +21 $\frac{\text{TW 4" BE}}{30}$ +20 $\frac{\text{COR FOUNDED}}{50}$ +13 $\frac{3-5 \text{ "BE}}{47}$ +00 $\frac{\text{COR FOUNDED}}{84}$ +05 $\frac{10 \text{ "BE}}{53}$ CONC CURB
22+03 $\frac{\text{COR FOUNDED}}{53}$ +72 $\frac{5-7 \text{ "BE}}{54}$ +50 $\frac{15 \text{ "BE}}{62}$ +52 $\frac{5 \text{ "BE}}{44}$ +35 $\frac{6 \text{ "BE}}{42}$ +39 $\frac{8 \text{ "BE}}{42}$ +43 $\frac{6 \text{ "BE}}{42}$ +19 $\frac{8 \text{ "BE}}{62}$ +27 $\frac{\text{TW 8" BE}}{69}$ +17 $\frac{10 \text{ "BE}}{98}$

+10 44

16" Box E

+04 $\frac{11 \text{ "BE ID}}{42}$ CURB
22

LT

2

RT

5

H₀ #
925

COW
BIT ENT

H₀ #
915

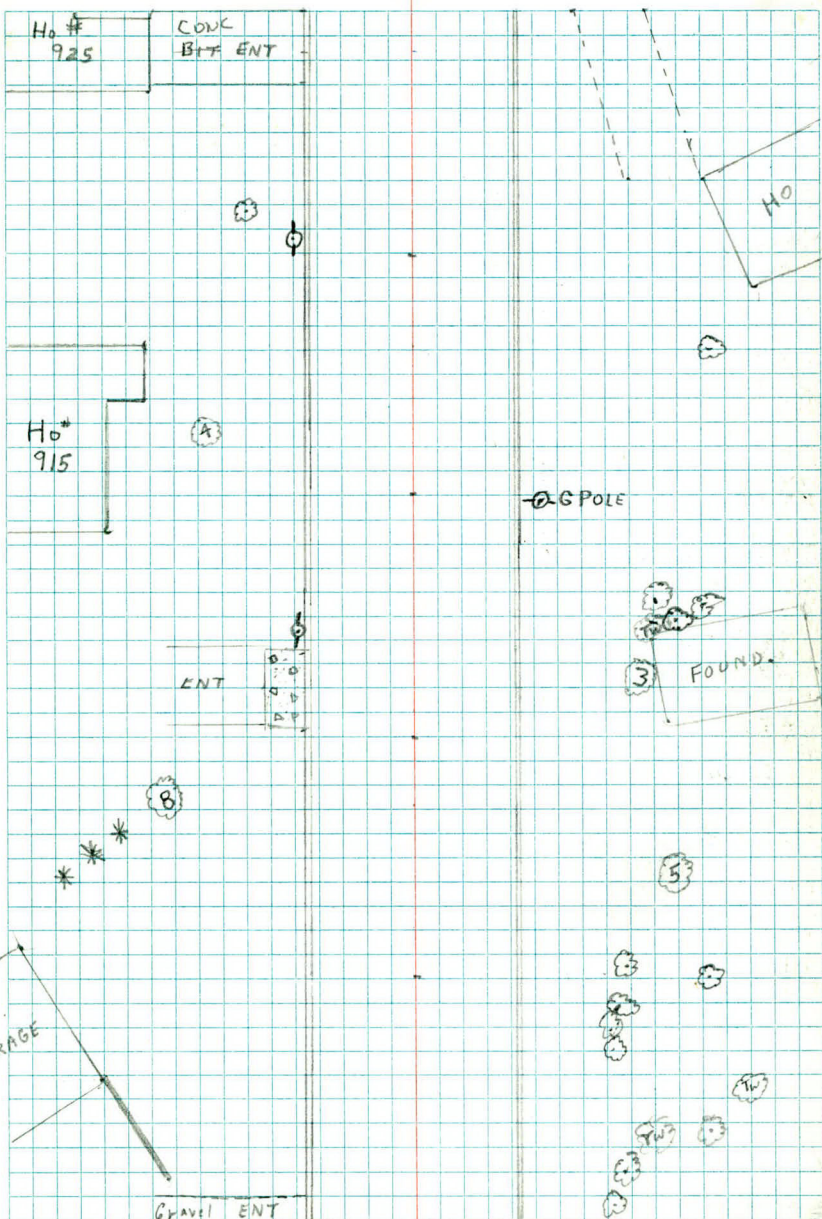
ENT

OG POLE

FOUND

GARAGE

Gravel ENT



LT

£

RT

20+00

+68 ^{curb nose} $\frac{92}{72}$ ^{MH} $\frac{66}{66}$

+93 $\frac{TH 61}{Be Cone Pav$

+60 ^{MH} $\frac{79}{79}$

+57 ^{ISLD NOSE} $\frac{14}{14}$

+51 ^{sig} $\frac{5}{5}$

+68 ^{W.S.O.}

+50 ^{POR} $\frac{85}{85}$ +39 ^{E Row Poplars} $\frac{84}{84}$ +44 ^{MH} $\frac{50}{50}$

+44 ^{CB} $\frac{72}{72}$ +21 ^{Hyd} $\frac{65}{65}$ +29 ^{Range Tr} $\frac{ENT}{ENT}$

+34 ^{ISLD NOSE} $\frac{19}{19}$

+18 ^{BR} $\frac{43}{43}$ +15 ^{COR Poplars} $\frac{62}{62}$

+23 ^{ISLAND NOSE} $\frac{3}{3}$

+14 $\frac{10' ENT (BIT)}{Ba Row Poplars}$ $\frac{68}{68}$

+07 ^{POR} $\frac{50}{50}$ +04 ^{ER-E Curb} $\frac{62}{62}$ +98 ^{PP} $\frac{20}{20}$ +00 ^{15" RCP} $\frac{53}{53}$

19+00

+89 ^{yard lite} $\frac{72}{72}$ +87 ^{8" Birch} $\frac{77}{77}$ +86 ^{stump} $\frac{77}{77}$

+82 ^{COR HO} $\frac{95}{95}$

+66 ^{12" willow} $\frac{60}{60}$

+80 ^{POR} $\frac{17}{17}$

+65 ^{5" willow} $\frac{59}{59}$

+55 ^{12" PINE} $\frac{39}{39}$

+68 ^{BR} $\frac{17}{17}$

+50 ^{COR HO} $\frac{87}{87}$ +50 ^{20" SOFT} $\frac{86}{86}$ +42 ^{12" PINE} $\frac{35}{35}$ +40 ^{3-8" Ash} $\frac{59}{59}$ +40 ^{4-5" Ash} $\frac{44}{44}$

+46 ^{ELM} $\frac{51}{51}$ +31 ^{W.S.O.} $\frac{62}{62}$

+10 ^{10" Poplar} $\frac{48}{48}$ +09 ^{8" Ash} $\frac{41}{41}$ +14 ^{Tw 6" Ash} $\frac{40}{40}$

+25 ^{14" ELM} $\frac{71}{71}$

+07 ^{stump} $\frac{58}{58}$ +07 ^{6" Ash} $\frac{45}{45}$

+11 ^{16" ELM} $\frac{46}{46}$

18+00

+98 ^{30" Oak} $\frac{43}{43}$

^{curb} $\frac{22}{22}$

^{curb} $\frac{22}{22}$

+83 ^{COR HO} $\frac{71}{71}$

+80 ^{BIT DW COR} $\frac{42}{42}$ +74 $\frac{12' ENT}{12' ENT}$

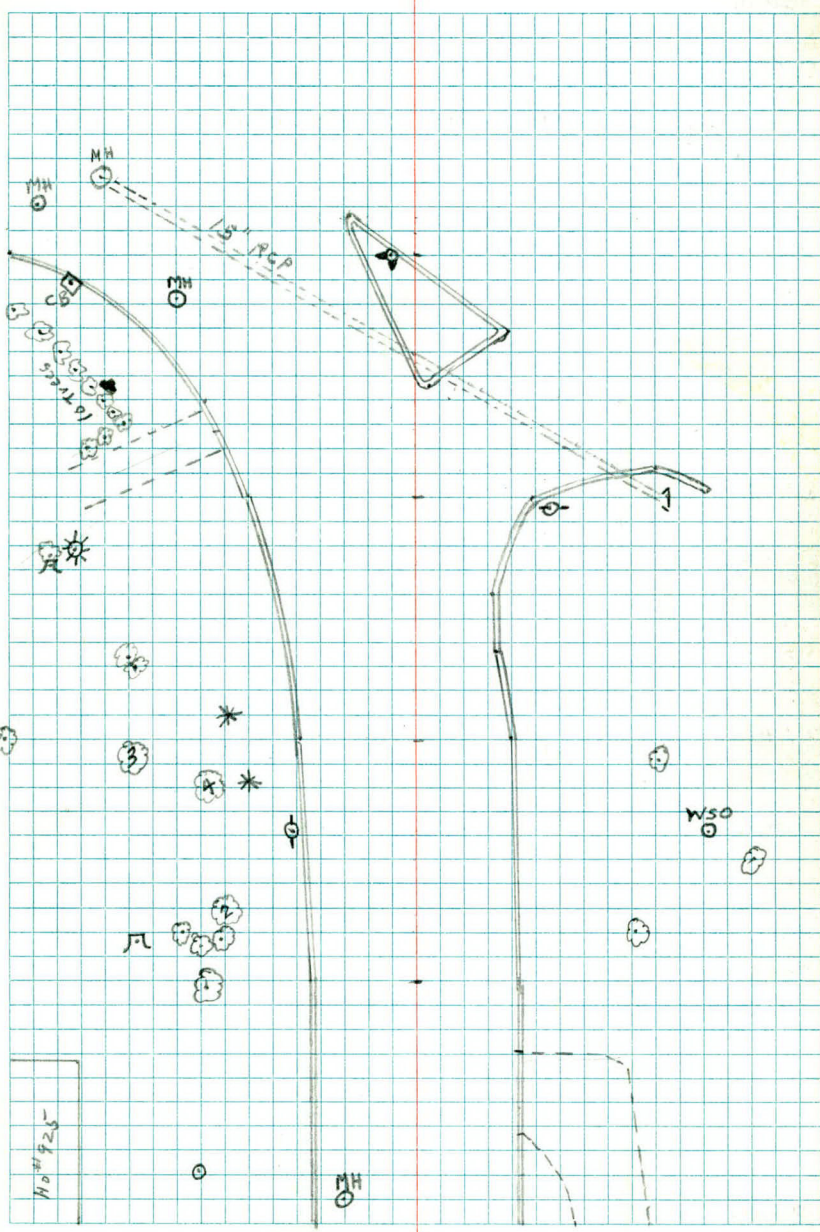
+61 ^{yard lite} $\frac{46}{46}$

+55 ^{MH} $\frac{16}{16}$

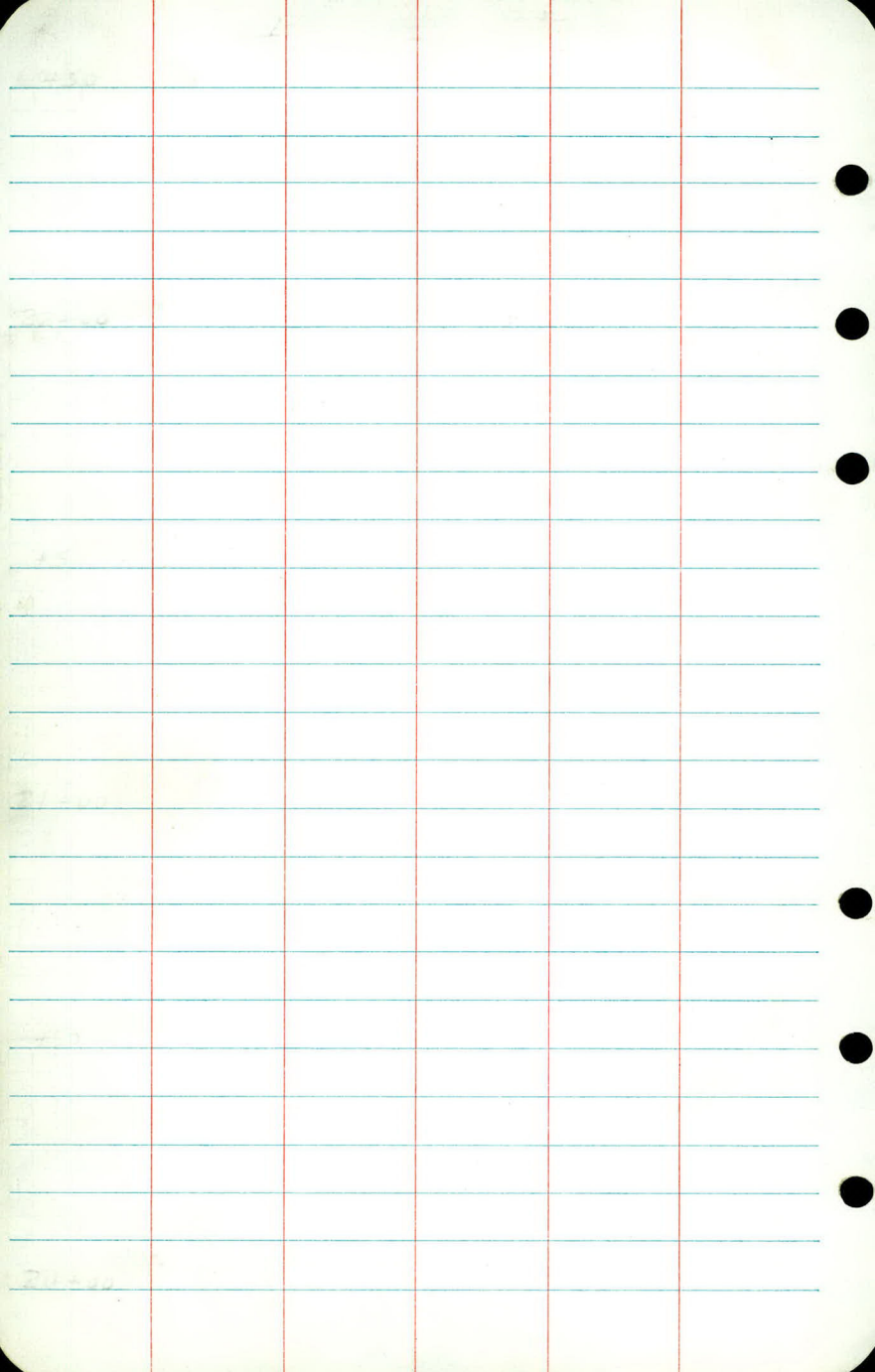
+6 ^{DW} $\frac{33-48}{33-48}$

17+50

Ho



No. 925



GA
DS
RJ

141 CONST

12-30-75
CLOUDY 29°
LIGHT SNOW 7

Cross Sections

Sta 15+00 to 20+00

STA	+	Δ	-	Elev
BM	10.76	887.60		876.84
15+00	ENT LT			
+30				
+50				
16+00	ENT LT			
+50				
TP	9.48	887.73	9.35	878.25

GA
DS
RJ

LT

E

RT

12-30-75
Cloudy 29°
Snow 8

TOP HYD NO ENT TO MAPLE HILLS GOLF

67.3	70.6	73.9	74.01	74.53	74.12	74.6	75.8	75.9	75.4
20.3	17.0	13.7	13.59	13.07	13.48	13.00	11.8	11.7	12.2
75	52	37	22	22	22	23	36	52	75

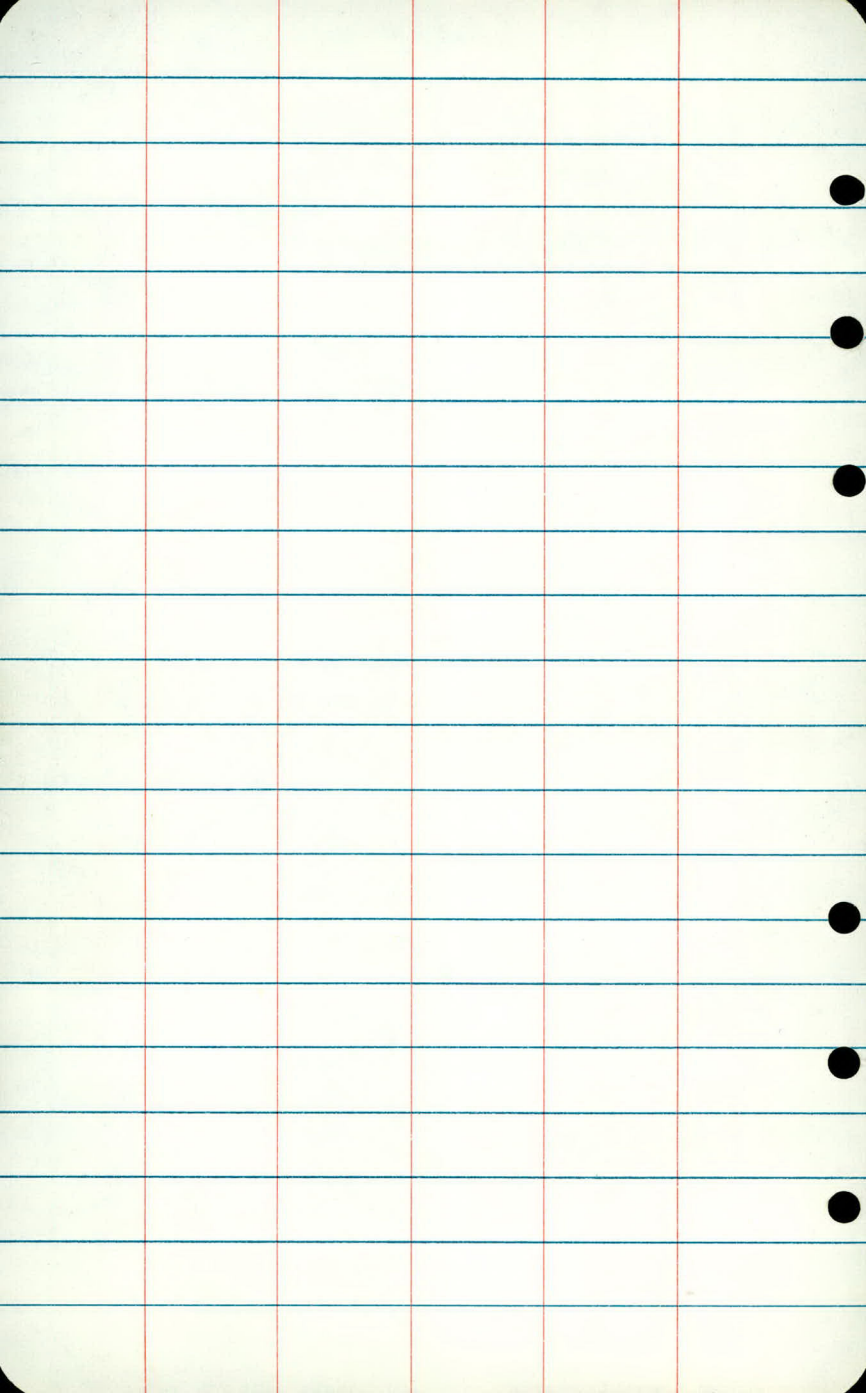
67.1	70.2	71.1	74.0	74.73	74.21	74.9	74.5	74.93	75.9	74.1	75.9	74.1
20.5	17.4	16.2	13.6	12.87	13.39	12.70	13.15	12.67	11.7	8.5	8.7	8.5
66	65	53	39	23	22	22	22	23	34	39	57	75

70.80	74.2	75.06	74.58	75.18	74.74	75.24	76.0	81.2	81.6
16.8	13.4	12.54	13.02	12.42	12.86	12.36	11.6	6.4	6.0
75	51	23	22	22	22	23	33	43	75

73.6	75.0	76.03	75.51	76.0	75.58	76.06	77.7	85.4	85.7
14.0	12.6	11.57	12.09	11.60	12.02	11.54	9.9	2.2	1.9
75	57	34	22	22	22	23	33	47	75

76.4	76.2	76.94	76.47	77.06	76.64	77.16	78.1	86.8	86.8
11.2	11.4	10.66	11.13	10.54	10.96	10.44	9.5	0.8	0.8
61	42	23	22	22	22	23	30	41	75

PK E STA 17+00



Sta	+	π	-	Elev
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		887.73		
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17+00				
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+50	CONC	ENT	LT	
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+55			8.55	
-----	--	--	------	--

+75	CONC;	BIT	ENT	RT
-----	-------	-----	-----	----

18+00				
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+30				
-----	--	--	--	--

GA
DS
RJ

LT

E

RT

12-30-75
CLOUDY 20'
LT SNOW 10

17.63	76.63	78.13	77.62	78.25	77.89	78.33	79.63	84.93	85.13
13.1	11.1	9.60 TC	10.11	9.48	9.89 GUT	9.40 TC	8.1	2.8	2.6
54	35	23	22		22	23	29	40	59

77.78	78.32	79.13	78.86	79.52	79.09	79.58	81.13	81.73	82.43
CONC	CONC	CONC	GUT			TC	BIT		
9.95	9.41	8.60	8.87	8.21	8.64	8.15	6.6	6.0	5.3
53	42	29	22		22	23	29	51	75

MH LT 16'

77.53	78.43	80.08	79.57	80.18	79.81	80.54	80.93	81.93
		TC	GUT		GUT	CONC		
10.2	9.3	7.65	8.16	7.55	7.92	7.19	6.8	5.8
67	43	23	22		22	33	48	75

77.63	79.73	80.77	80.27	80.91	80.48	80.94	82.33	82.53
		TC				TC		
10.1	8.0	6.96	7.46	6.82	7.25	6.79	5.4	5.2
69	35	23	22		22	23	43	75

77.33	77.43	81.13	81.69	81.19	81.74	81.28	81.78	82.33	83.03
			TC	GUT		GUT	TC		
10.4	10.3	6.6	6.04	6.54	5.99	6.45	5.95	5.4	4.7
75	60	40	24	23		21	23	42	75

STA

+

K

-

ELEV

18+50

19+00

TP

442⁵

11

LT				RT			
82.73	82.33	82.14	81.62	82.31	81.88	82.38	82.73
TC	TC	TC	TC	TC	TC	TC	TC
5.0	5.4	5.59	6.11	5.42	5.85	5.35	5.0
75	43	25	24	20	21	48	75

83.43	83.87	83.69	83.2	83.70	83.70	83.52	83.12	84.13	84.13	80.3
conc	TC	TC	conc	conc	conc	conc	TC	TC	FL. 15"	
4.3	3.86	4.04	4.53	4.03	4.03	4.21	4.01	3.60	3.6	7.41
75	54	39	38	14		9	27	28	43	51

84.02

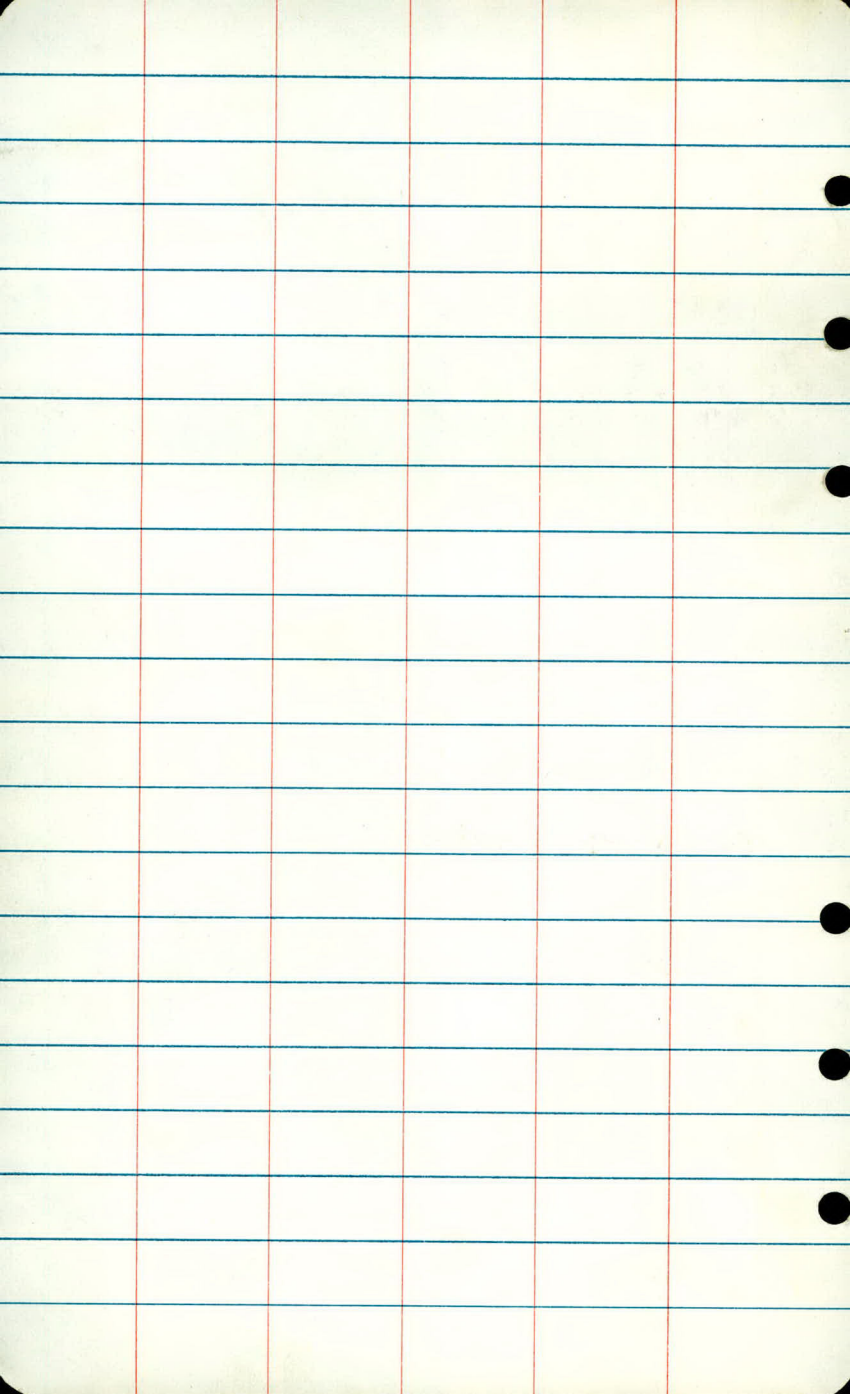
conc

3.71
76

83.83

3.9
61

PK @ P.I. 18+89.85



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	
STATION	LEFT	RIGHT	SIZE
			INCH CASTING

TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H.	ELEV.
TO TOP OF CASTING	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
ETC.	
INV.	

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	
STATION	LEFT	RIGHT	SIZE
			INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV.	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING			
ETC.			
INV.			

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN	
ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	
ADJUST	
RECONSTRUCT	



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	
STATION	LEFT	RIGHT	SIZE
			INCH CASTING
TYPE OF CONST.		COMMENTS	
BLOCK			
BRICK			
SECTIONAL			
ADJUSTING RINGS	TYPE	NO.	DEPTH
BLOCK			
BRICK			
CONC. RINGS			
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING ETC. INV.		ELEV.	
SIZES OF ALL PIPES AND DIRECTION OF FLOW			
DESIGN			
ELEVATION - TOP			
FINAL ELEVATION			
DIFFERENCES			
ADJUST			
RECONSTRUCT			

STRUCTURAL DATA TYPE

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM
BOTTOM OF M.H

ELEV.

TO TOP OF CASTING

DISTANCE

FROM HIGHEST
FLOW LINE TO
TOP OF CASTING

ETC.

INV.

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM
BOTTOM OF M.H

ELEV.

TO TOP OF CASTING

DISTANCE
FROM HIGHEST

FLOW LINE TO
TOP OF CASTING

ETC.

INV.

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	
STATION	LEFT	RIGHT	SIZE
			INCH CASTING

TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
ETC.	
INV.	

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	
STATION	LEFT	RIGHT	SIZE
			INCH CASTING

TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
ETC.	
INV.	

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	
STATION	LEFT	RIGHT	SIZE
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TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
ETC.	
INV.	

SIZES OF ALL
 PIPES AND
 DIRECTION OF
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ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	



ADJUST

 RECONSTRUCT

STRUCTURAL DATA TYPE

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM
BOTTOM OF M.H
TO TOP OF CASTING

ELEV.

DISTANCE
FROM HIGHEST
FLOW LINE TO
TOP OF CASTING

ETC.

INV.

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM	Y	ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	
STATION		LEFT	RIGHT	SIZE	
					INCH CASTING

TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H.	ELEV.
TO TOP OF CASTING	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
ETC.	
INV.	

SIZES OF ALL
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FLOW

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ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	



ADJUST

RECONSTRUCT

STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
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STATION	LEFT	RIGHT	SIZE
			INCH CASTING

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BLOCK	
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BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	ELEV.
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
ETC.	
INV.	

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	

ADJUST

RECONSTRUCT



STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
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STATION	LEFT	RIGHT	SIZE
			INCH CASTING

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BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H.	ELEV.
TO TOP OF CASTING	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	
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SIZES OF ALL
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ELEVATION - TOP	
FINAL ELEVATION	
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ADJUST
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STRUCTURAL DATA TYPE

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STATION	LEFT	RIGHT	SIZE
			INCH CASTING

TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	ELEV.
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ETC.	
INV.	

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PIPES AND
DIRECTION OF
FLOW

DESIGN

ELEVATION - TOP	
FINAL ELEVATION	
DIFFERENCES	



ADJUST

RECONSTRUCT

STRUCTURAL DATA TYPE

STORM	ELECTRIC	WATER	
SANITARY	TELEPHONE	OTHER	

STATION	LEFT	RIGHT	SIZE	
				INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING		ELEV.	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING			
ETC.			
INV.			

SIZES OF ALL
PIPES AND
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FLOW

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ELEVATION - TOP	
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DIFFERENCES	
ADJUST	
RECONSTRUCT	

