OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

Plan Survey

Frost Ave.

From Adele To Birmingham

Road Acc't. No. 28

Date Filed 1983 File

Index

Frost Ave

Adele To Birmingham

ALinement	1 — 3
Topography	4 — 19
Bench Marks	20 — 21
X-Sections	22 — 39
Storm sewer Extra X-Sec Ide To North	40 — 42
Frost Ave Storm Sewer Ade to Birm Railroad R/W	43 — 53
Stadia - Frost - Storm Sewer Railroad R/W West Pond	54 — 55
East Pond Keller Golf	56 — 57
Abandoned R/W Soo Line R.R. in Sec 16-19-22 X-Sec.	58 — 59
Topo, English @ Frost	60 — 67
X-Sec Eng @ F	68 — 71
Elevations Behind Richards Market	72 — 75
ALinement Edward @ Frost	76 — 79
Topo Edward @ Frost	80 — 81
X-Sec. Ent 16+23 Ed @ F	82 — 83

Index Page 2 of 2

Alinement Frank St. @ Frost 84—86

Topo Frank st. @ Frost 87—88

X-Sec Frank @ Frost 89—91

Watermain Elev 92—94

Alinement Frost Storm Sewer 14+00=0+00 95—97

X-Sec Flicek Park Frost Storm Sewer 14+00=0.00 98—99

Frost Ave 62-628-04
Add X-sec Pond 27+00 LT 100—103

Atlantic X-sec 27+00 27+50 Frost Ave 104—105

Curve St. Easement
Richard's Market 106—108

Alinement Clarence @ Frost 109—111

Topo Clarence st. @ Frost 112—113

X-sec Clar @ F 3+00=39+17.60 114—116

Alinement Ide st @ Frost 117—118

Topo Ide St. @ Frost 119—120

X-Sec Ide @ Frost 121—125

Structures 126—147

ML
BW
MR
BL

MARCH 29, 83
CLOUDY 34°

1

ALINEMENT

FROST AVE

ADELE T. BIRMINGHAM

STA

37+00 POL

32+48.42 ℄ ENGLISH 32+48.78

24+00 POL

16+00 POL

6+06.28 MONUMENT AT ADELE

STA POINT

46+28.03 POC

TOPOGRAPHY

STA	LT	℄	RT
+50			
	+48 8" ASH / 41		
	+34 END CLG / 33		
			+34 END CLG 8624 / 19
8			
+50			
7			
+50			
6+00			

STA LT ℄ RT

11

RO 13 RO 14

+95 ℄ 22' BIT EXT

+97 BEG C-L PE
← 67

+81 40 LITE
34

+78 END PE
283

+66+ BEG POSTS (5)
21

+50

+55 15" PINE
33

+28 3" MAP
33

+28 NW COR ¾ 1100
65

+06 10" ELM
62

+03 STUMP
32

+04 6" PINE
41

10

RO 16

RO 16

+98 CORER (WOOD)
27-68

+81 ROW TREES
38 → ENDWARD
55

+87 PP
38 (DIRT)

+70 ℄ 10" ELM

+67 MH
15

+51 BEG WOODS
55

+56 WSO
28

+51 WSO
24

+50

+45 HYD
33

+15 12" ELM
54

9

+00 RO
26

+00 RO
18

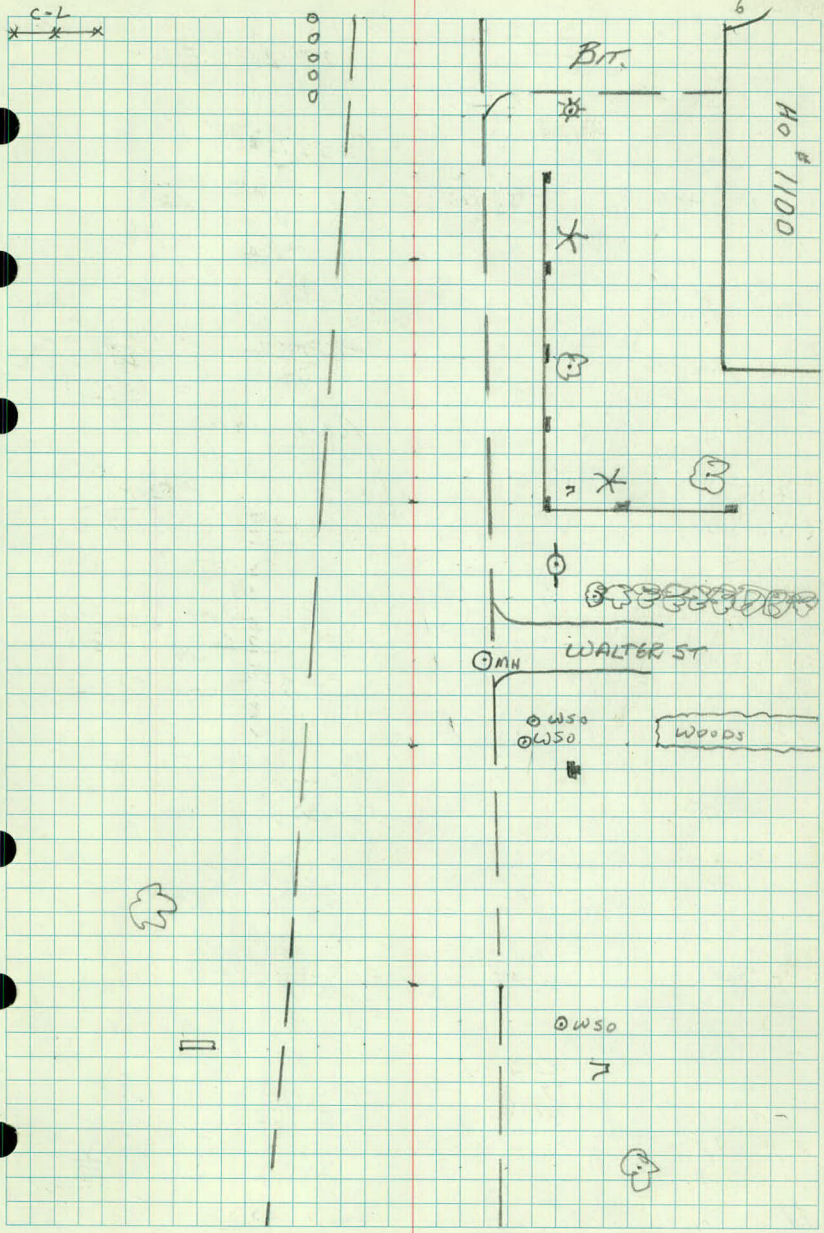
+87 SIGN
41-48

+93 WSO
31

+84 STUMP
37

8+50

+63 TWIN 3" APPLE
47


C-L
BIT.
HO # 1100
WALTER ST
MH
WSO
WSO
WOODS
WSO

STA | LT | ℄ | RT

+50

+38 SW COR BIT P.L. 41

+37 FR C-L ← 71

+34 FR 11

+30 END B.S. 70

+30 COR B.S. 61

+16 13" CW 49

POSTS (11) 21

+14 10" CW 55

+17 COR B.S. 50

+07 BRG BS 50 RO 12

+06 BR 34

+3 PDR 27

13

+94 18" CW 34

+87 MH 15

+72 WSO 30

+89 10" CW 35

+78 ER 47

+69 WSO 26

+85 BENCH 50

+64 NGP 36

POSTS (6) 21

+63 ARC LITE 30

+75 BENCH 50

+50

+53 BUSH 60

+56 PDR 19

+39 BR 10

+22 NE COR HO 67

+25 12" APPLE 46

12

RO 13

RO 10

+82 12" MAP 46

+96 NW COR HO 67

+67 NE COR GARAGE 67

+52 NW COR GARAGE 67

+50

+53 SCORE BOARD 39-46

+59 ℄ 10" BIT ENT

+40 TRI ASH 27

+34 10" ASH 24

POSTS (11) 21

+21 LILAC BUSH 27

+19 TELE CON. BOX 35

+30 ℄ 10" ENT (DIST)

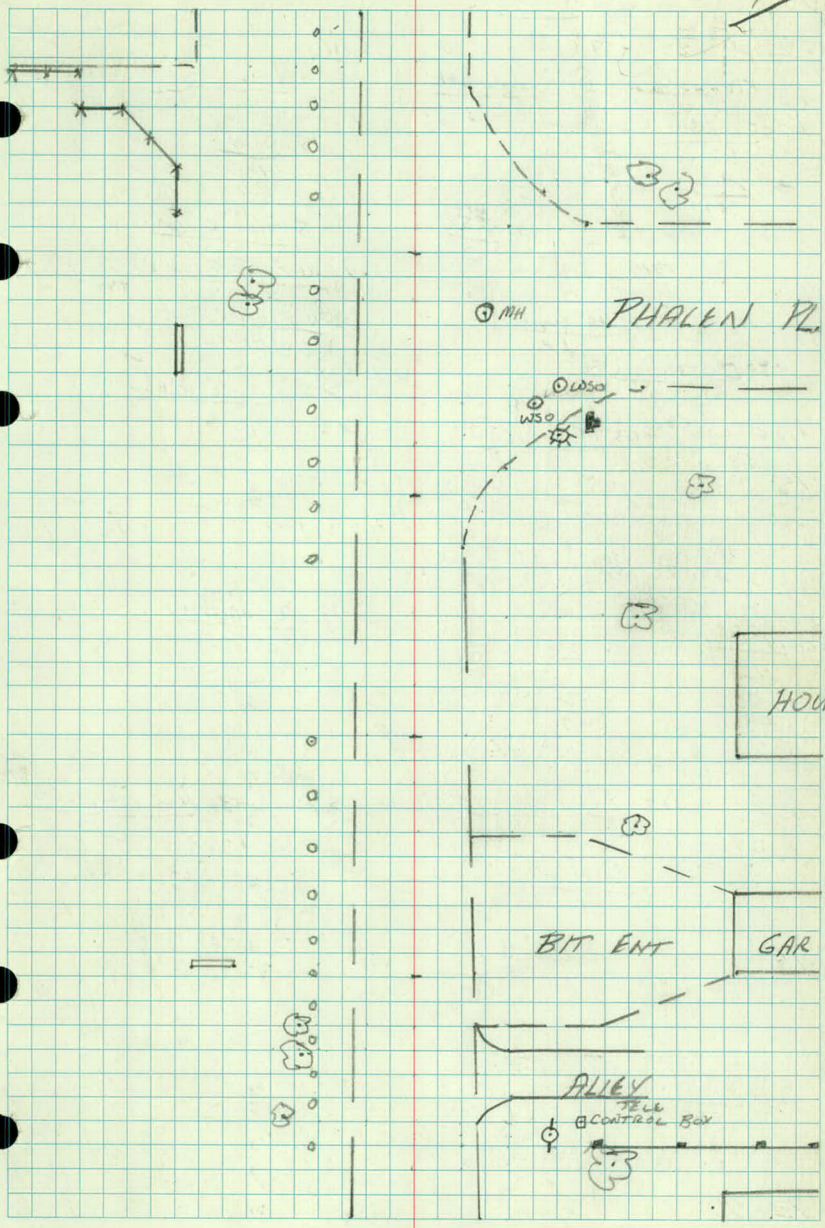
+15 ER (WOOD) 37-67

+17 PP 29

11

+06 NE COR HO 65

+12 2" MAP 41


MH
PHALEN PL
WSO
WSO
HOUSE
BIT ENT
GAR
ALLEY
TELE
CONTROL BOX

STA LT ℄ RT

16

+96 END BLEACHERS
40-46
POST (11)
21

BEG +93 END C-L FE
82
BEG BLEACHERS
40-46

+78 END B.S.
66

+78 BEG C-L FE
66

+75 COR B.S.
60

+70 STUMP
49

+56 COR B.S.
58

+50 END FE
65

+50 BEG B.S.
63

+46 BLEACHERS
49

+37 BEG BLEACHERS
65

+32 BEG C-L FE
76

+32 12" MAP
39

+18 BENCH
69

+03 BENCH
80

Rp
12

+83 MP0
35

+64 22' DIRT RNT

+94 GP30
31

+98 3' BIT SPILLWAY
32

+50 SIGN
41-51

+49 END R. WALL BLOCK
56

+48 TIER R. WALL
35-56

+44 NE COR PROPANE
43-57

+44 SIGN
35

+33 NW COR PROPANE
45-61

+29 COR R. WALL
65

15

Rp
12

Rp
12

+80 10" ASH
47

+74 20" ASH
37

+60 14" ASH
43

+56 TWIN 12" ASH
33

+56 C-L FE
70

+50

+26 SE COR P-L
41

+17 ℄ BIT RNT 18'

+33 PP
24

POST (8)
21

+99 NE COR BLDG
61

BEG
+99 RE. WALL BLOCK
64

#114

+36 NW COR BLDG

+37 POST
28

+36 PP
30

+33 POST
29

14

Rp
12

Rp
12

+55 15" CW
35

13+50

BIT SPILLWAY
WSO
DIRT
PILES
BLOCK
#1146
C.L.
C.L.
PARKING

STA LT ℄ RT

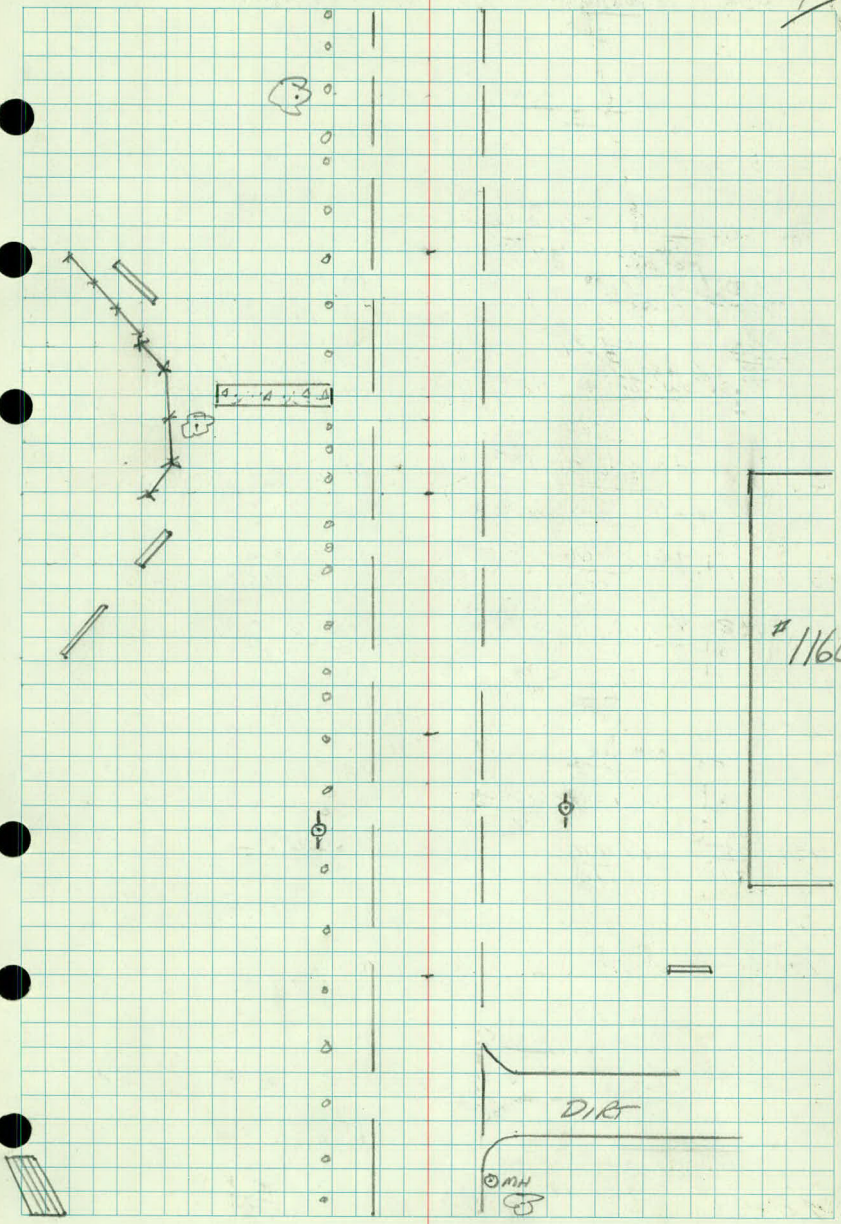
+50 POSTS (12)
21

+32 QUINT 8" ASH
27

18 +95 BENCH
66
+81 BEG C-L FE
+97 END C-L FE
95
+81 END B.S.
60
POST (12)
60
21
+75 B.S.
55
+88 BENCH
58
+64 24" WILLOW
48
+70 CONC SPILLWAY 3'
20-44
+56 B.S.
54
+55 NE COR BLDG
69
+50
+49 BEG B.S.
59
+42 BENCH
54
+34 BENCH
60
+16 BENCH
76
+26 BENCH
67
+16 END C-L FE
85

17 RO 12 RO 12
+80 PP
23
+99 COR FE
94
+61 BEG C-L FE
96
+60 EAST BLDG
86-96
POST (9)
21
+85 PP
29
+67 NW BLDG 1160
69
+50
+51 SIGN
50-59
+47 WEST BLDG
87-97
+46 END C-L FE
97
+12 BEG C-L FE
94
+23 ℄ DIRT RDWY 14'
+12 END BLDGS
83-90
+07 MH
14
+00 BLEACHERS
76-83
+03 20" ASH
67

16 RO 12 RO 12


#1160
DIRT
MH

STA RT ℄ LT

21 +93 SE COR. HO 96 RO 11 RO

+85 12" BIT ENT

+70 SW COR HO 96

+59 SE COR HO 96

+50 +52 PLANTER 37-44

+49 SIGN 46-51 +44 PLANTER 37-44 +48 HO 30

+30 SW COR. HO # 1187 96

20 +06 ℄ 10' BIT ENT

+92 QUAD 12" CW 58

+89 TWIN 4" CW 56 +78 8" CW 68

+80 ℄ DIRT 10' ENT +61 8" CW 61

+50 +27 MH 15

+34 12" OAK 63 +08 WSO 26 +12 WSO 30

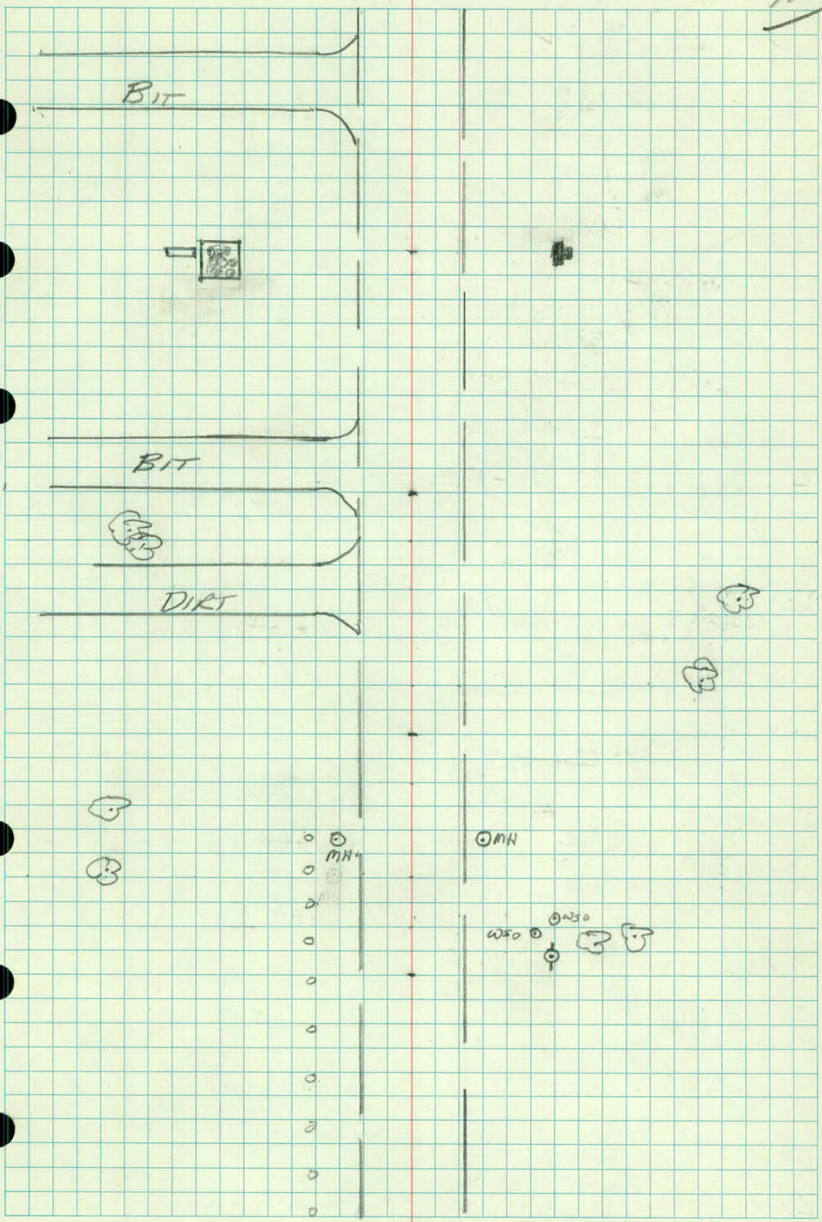
+22 5" OAK 64

+27 END POSTS 21 +27 MH 18 +06 BLSH 44 +07 6" BIRCH 52

+04 PP 29

19 RO 12 RO 11

18+50


BIT
BIT
DIRT
MH
MH
WSO
WSO
WSO

STA LT ℄ RT

+50

+37 SIGN
36

+47 HYD
30

+46 WSO
26

+426° CW
38

+40 PP
30

+05 SW COR BLDG (DAIRY)
110

Z3

RO RO
12 11

+77 BKG P.L.
12-110

+57 MN
18

+50

+20 SIGN
50-58

+11 12" CW
42

+08 ℄ 10' DIRT ENT

Z2

+92 SE COR NO #1201
92

RO
11

+90 SIGN
35-43

+68 WSO
29

+66 SW COR NO #1201
92

+69 12" CW
35

+50

+45 TWIN 4" CW
45

+29 TWIN 3" CW
41

+11 TELE CON. BOX
39

+23 3" CW
48

+27 PP
30

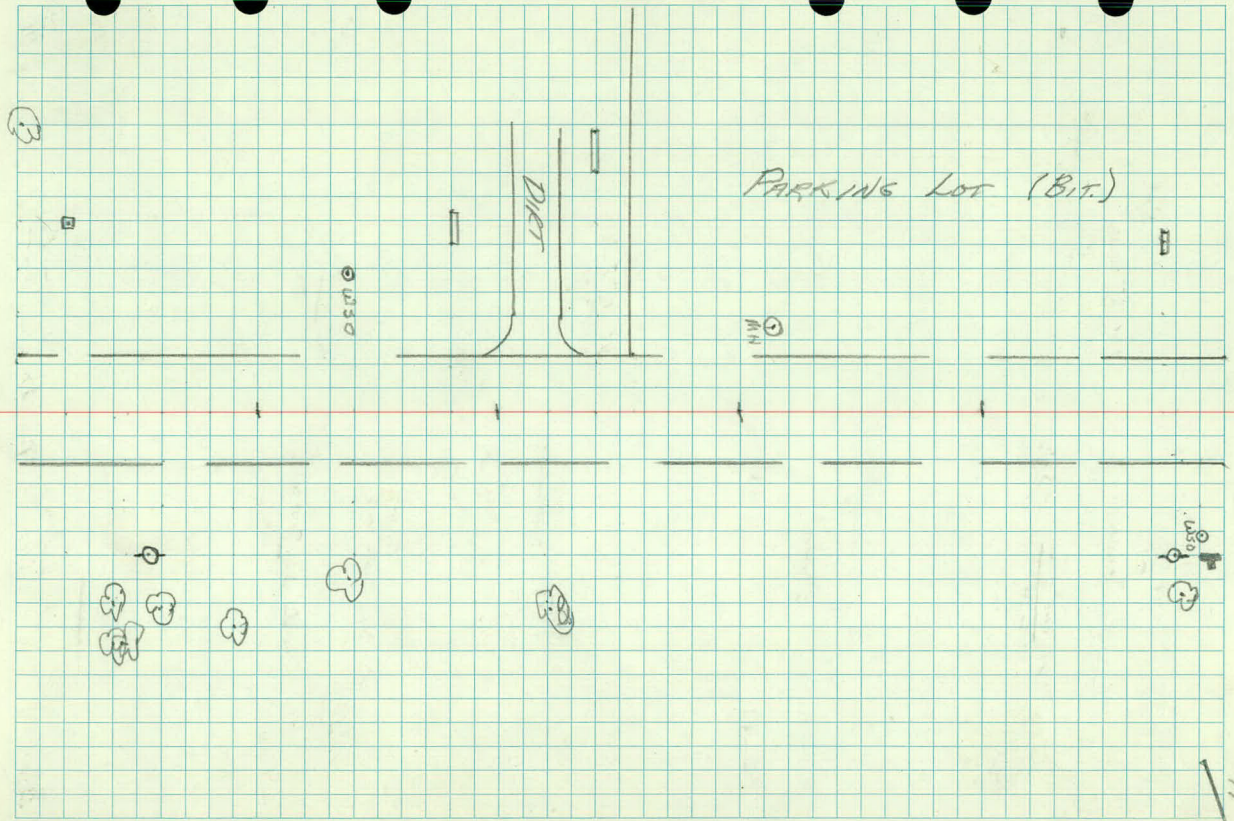
+01 24" CW
60

+20 TEL. 4" CW
40

+20 4" CW
48

Z1

RO RO
12 11


PARKING LOT (BIT.)
DIRT
OCEAN
MN
OCEAN

STA LT ℄ RT

26

+97 BR 29

+74 BR 35

+87 MH 18

+67 POR 21

RD 12

RO 11

+75 WSO 20

+56 C-L FE 38

+60 HEDGE 38 →

+56 END P-L 12 →

B,T

+55 BR 12

+61 PP 31

+50

+54 SIGN 38

+25 SE COR BLDG 110

25

+50

+43 PP 30

+21 SW COR BLDG 110

+21 PP 99

24

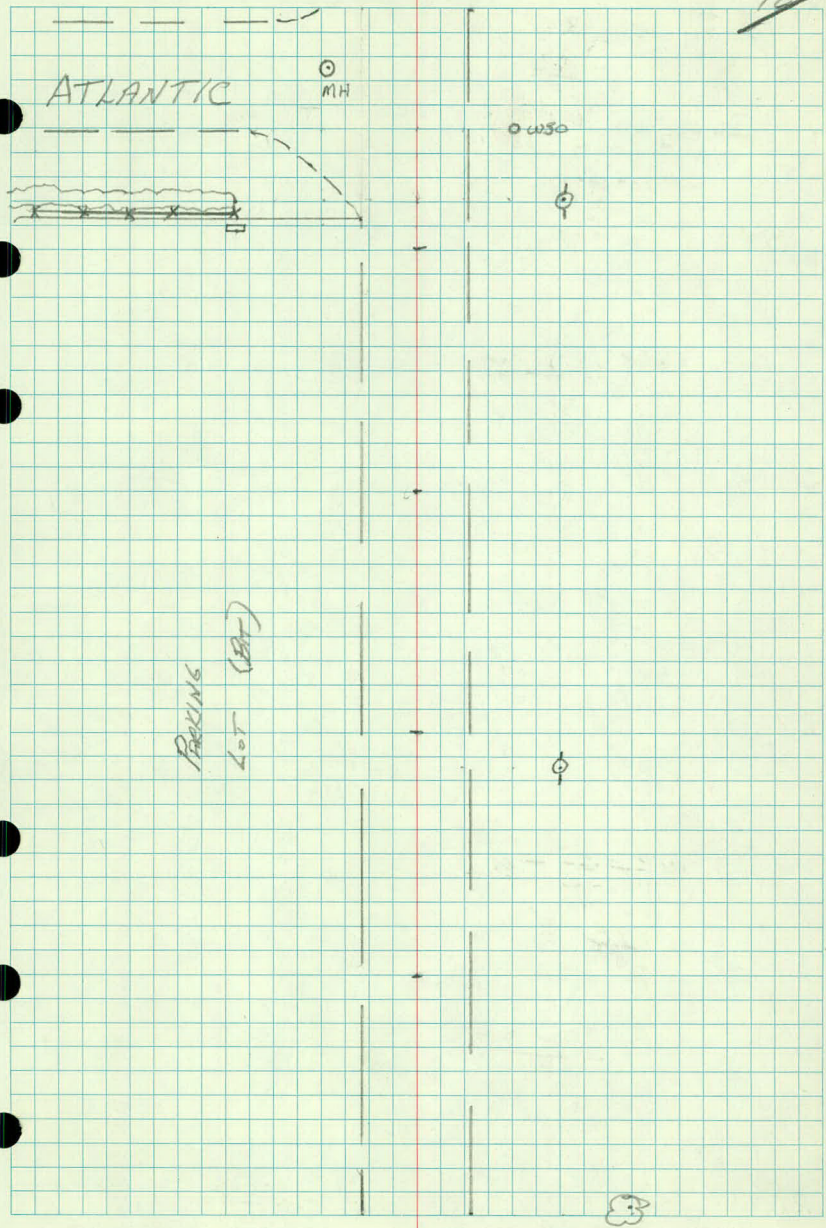
+72 SE COR BLDG 110

23+50

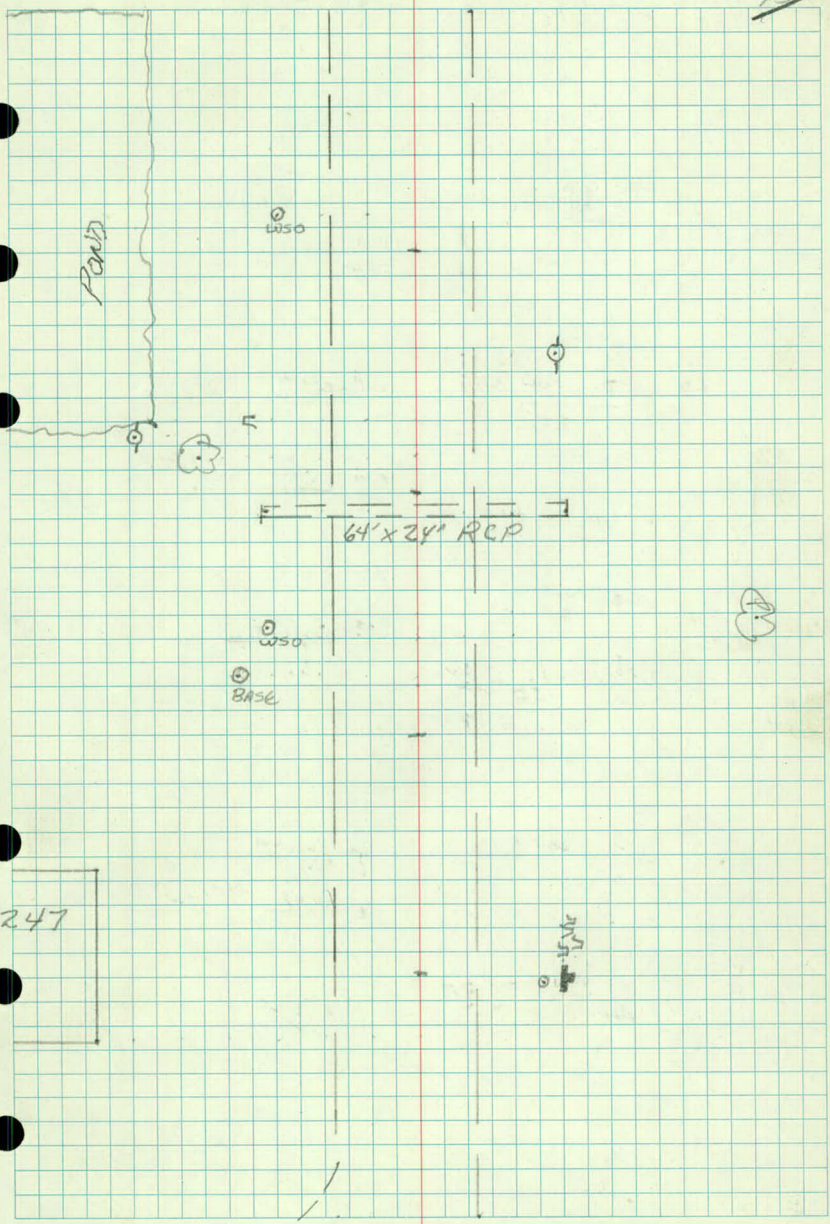
RD 12

RO 11

+53 7" CW 45


ATLANTIC
MH
WSO
PARKING LOT (BM)

STA	LT	℄	RT
+50	+50 END POND 56-130		
	+07 WSO 29		
28		RO 18	RO 12
	+65 BEG POND 56-130		
	+63 PP 59	+66 STUMP 34	+78 PP 29
	+58 3" MAP 46		
+50			+46 SO. END 24" RCP 37
	+45 NO. 24" RCP 33		
	+23 WSO 31		+24 10" CW 71
	+12 OLD CONC BASE 38		
27		RO 18	RO 12
	+72 SE COR BLDG 67		+57 STUMP 31
			+55 STUMP 30
			+57 STUMP 30
+50			+53 STUMP 35
	+37 SW COR BLDG 67		+48 WSO 26
			+48 HYD 30
26	+11 ER 18		


POND
WSO
64" x 24" RCP
WSO
BASE
1247

STA | LT | ℄ | RT

31 +99 LITE 38 | +97 ER 74 | +97 BR 27 | +84 BR 44 | CURB 25

+84 ER 28

+80 St COR BLDG 92 | +80 SIGN 40 | +75 POR 36 | +80 END TAPER 25

+50 | +49 POR 34 | +42 BR 43

(2 APPLE 4" / 15 BUSHES)

+42 BR 27 (LIQ. STORE)

+20 SW COR BLDG 92 | +28 30" CW 63 | +29 4" CW 62

30

+99 ER 27 | +99 BR 13 | BIT CURB 19 | +99 PP 30

(2 Pine 4" / 2 Apple 4" / 13 SCRUBS)

+90 POR 34

+65 ER 41 | +65 BR 27 | +73 POR 34

+67 BEG BIT CURB 17 | +67 BEG TAPER 17

+58 SIGN 35-44 | +61 3' BIT SPILLWAY 18-27

+50

+35 BR 41 | +35 ER 27 | +29 POR 34 (B.C) | +38 36" CW 74 | +38 PR 31

+16 MH 18 | +05 POR 35 (B.C) | +09 48" CW 83

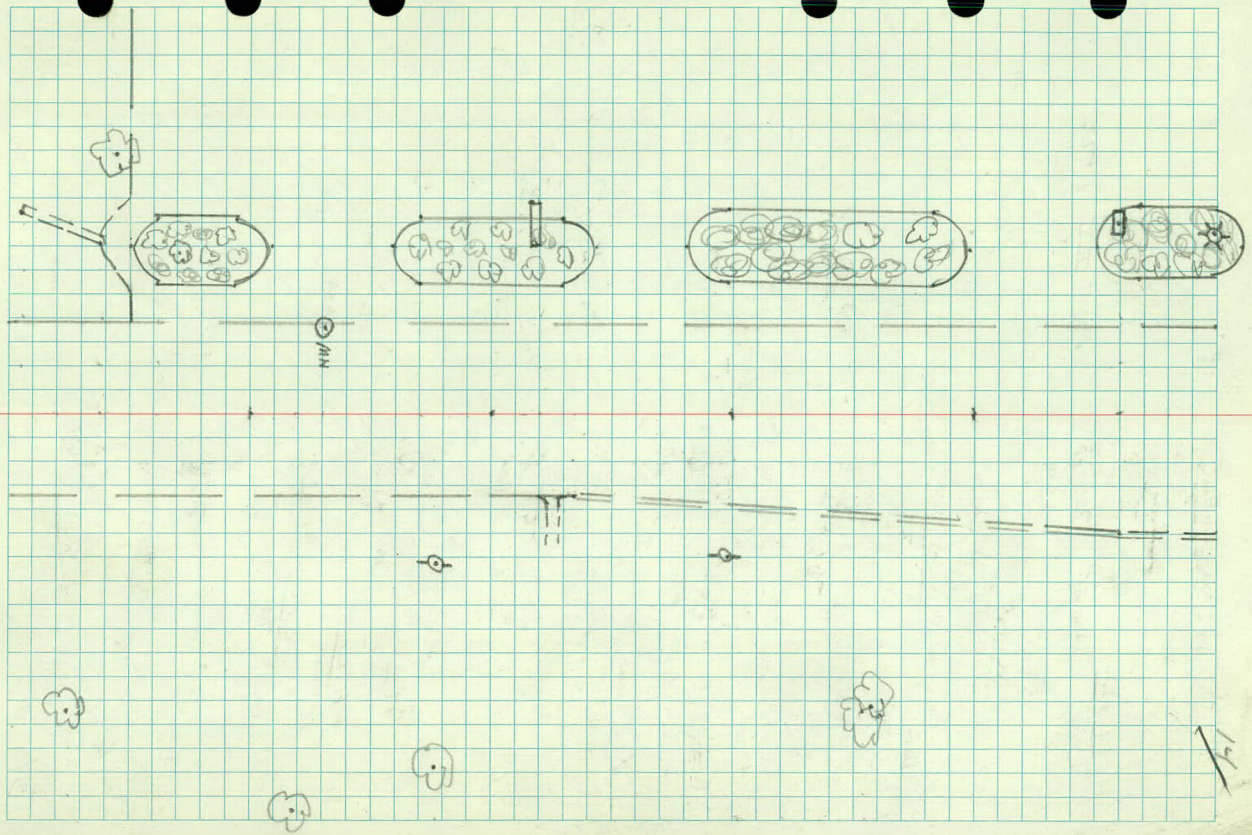
29 (B.C) +96 ER 41 | +96 BR 27 | +73 4" MP 54 | Ro 18 | Ro 15

+81 BR 41 (B.C.) | (2 TREES 9 SCRUBS)

+75 BEG P-C BIT 18-> | +69 24" CMP 36 | +75 POR 35

+81 ER 27 | +53 24" CMP 43 | +63 36" CW 66

28+50


MM

STA LT ℄ RT

+50

+22 POR 32

+42 SE COR BLDG 69

+18 ER

+19 END CONC 36-69

+16 LITE 56

+14 END ISLAND 54

+10 BR 39

+00 BEG ISLAND 54

+86 BEG CONC 40-69

+96 SW COR BLDG 69

33

+86 BR (BC) 40

+86 BR (B.C.) 28

+81 POR (BIT CURB) 32

+72 NORTH P.L 62

+72 BR 62

+69 C.B. 32

+48 MH 18

+18 POR 19

+23 BR END 19

+50

+35 WSO 33

+22 ER 49

+20 HYD 38

+21 POR 37

+19 BR 18

+09 BEG CURB 27

+20 SB 31

+09 ER 27

+09 BR 45

+04 CONC BASE 47

+07 LITE 40

32

+04 POR 40

+04 POR 30

+68 SE COR BLDG 92

+75 POR 36

+68 ER 44

+68 BR 27

+64 END P. ISLAND 70-73

+52 BEG PUMP ISLAND 70-73

+50

+46 BR 44

+46 BR 28

+38 POR 36

(1 APPLE 12 BUSH)

(HCO)

+18 SW COR BLDG 86

31

+06 POR 36

+46 ARB 48

+49 6" MAP 44

+33 ARB 41

+36 4" MAP 46

+43 4" PINE 46

+25 ARB 42

+27 4" PINE 38

+21 ARB 46

+05 COR P.L 77

+15 4" PINE 44

+05 NW COR P.L 53

+05 ℄ SPILLWAY 56

+00 SIGN 38

+05 8" APPLE 30

+96 ER 23

SW COR +85 BC CONC C. 77

+78 3' SPILLWAY 30

+81 POR 28

+70 BR 49

+78 CB 30

+27 GR 47

+33 WSO 29

+35 WSO 32

+22 POR 34

+19 CB 27

+26 WSO 32

+12 PP 31

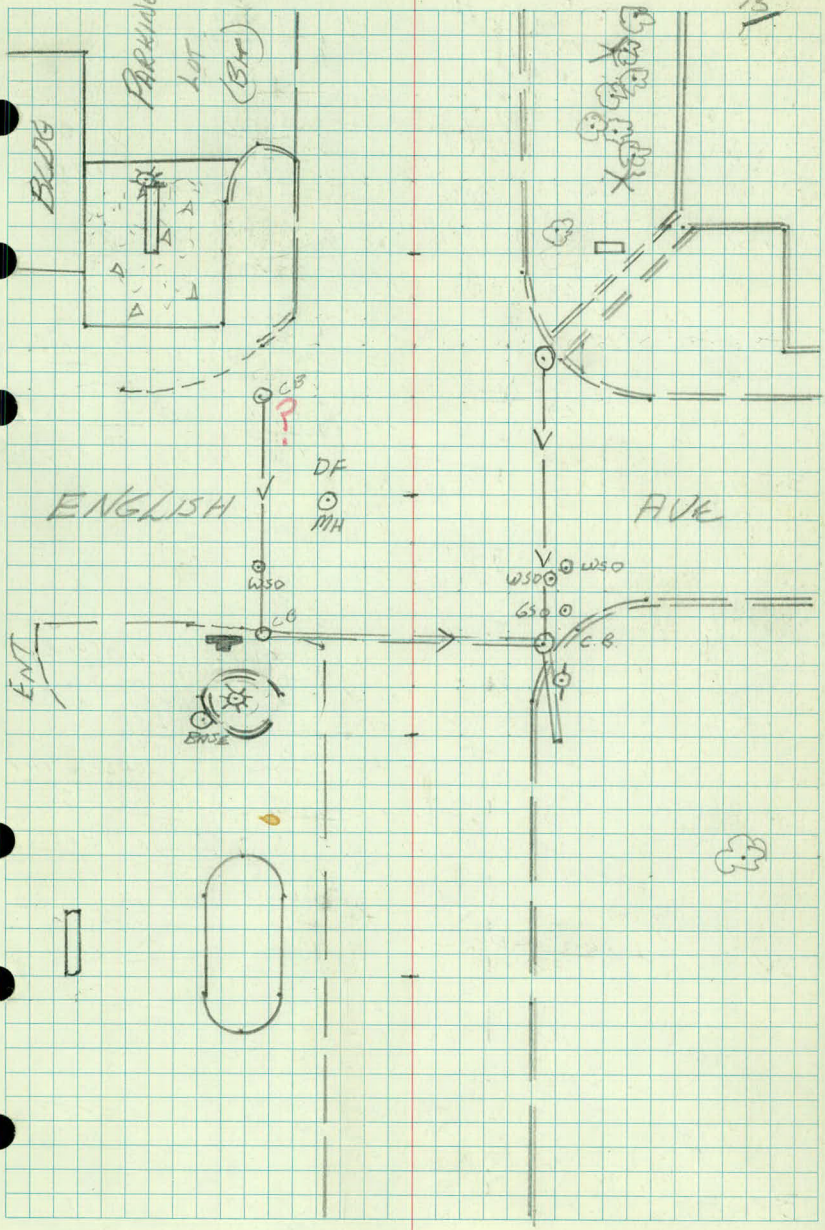
+07 BR 25

CURB 25

WEST +99 15" CMP 31

+74 50" CW 69

(13 BUSHES 2 CLOAR 2 APPLE)


PARKING LOT (BH)
BLDG
C.B.
?
DF
MH
ENGLISH
AVE
WSO
C.B.
ENT
BNSF
WSO
WSO
GSO
C.B.

STA LT ℄ RT

36

RD 15 RD 21 +96 EAST RAIL

+91 WEST RAIL

+79 RR SIGNAL 22

+62 POST 25 +70 POST 25 +77 POST 25

+50 +50 R.R. CONT. BOX 26-30 +50 R.R. BOX 36

+40 PP 67

+23 MH 17

+36 PP 62

+25 PP 29 +32 END CONC CURB 61

+12 SE COR BLDG 69

+12 NE COR P-L 41 +12 COR P-L 60

35

RD 21

+77 6" MAP 37 +87 4" PINE 35

+50 +48 END CURB 22 +55 LITE 34

+37 2" PINE 34 +28 6" MAP 35

+18 ARB 35 +20 2" PINE 37

+10 BR 22 +10 2" PINE 35 +24 ARB 34

+06 POR 25 +06 END CONC CURB + BEG BM 25

+99 END CONC CURB 52

34 +01 SW COR BLDG 69

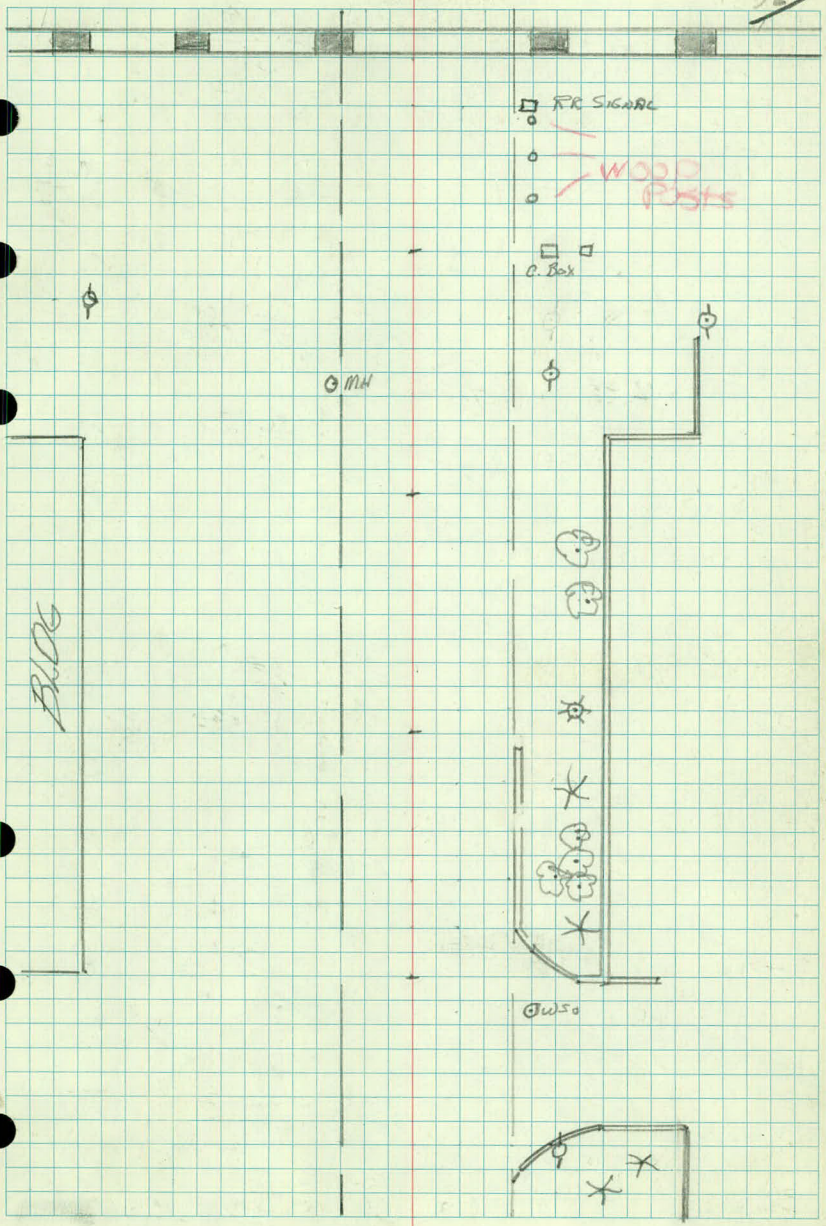
+99 COR P-L 41 +99 BR 30

+68 COR P-L 53 +93 CONC 25

+65 PP 30 +65 POR 29 +68 BR 35

+57 BR 23 +60 BEG CONC CUG 24

33+50 RD 15 RD 21 +56 2" PINE 40 +62 2" PINE 47


R.R. SIGNAL
WOOD POSTS
C. Box
MH
BLDG
WSO

STA LT RT

+50

RD 15 RD 20

+40 ER 38 +36 POR 40 +48 NE COR BLDG 37

+28 BR 41 +24 SIGN 36-42

+20 ER 47 +18 POR 40

+09 BR 38 +08 COR BLDG 135-155

38

+12 NW COR BLDG 37

+71 PP 27 +84 NE COR BLDG 89

+68 MH 18 +58 ER 38 +72 NW COR BLDG 135

+58 BR 32 +56 POR BTCLRB 35

+50

+51 SIGN 35 +62 COR BASE 34 +52 POST 35

+22 SIGN 51

37

+89 NW COR BLDG 98

+50

+20 MH 39

+47 BEG P.C BIT 21 →

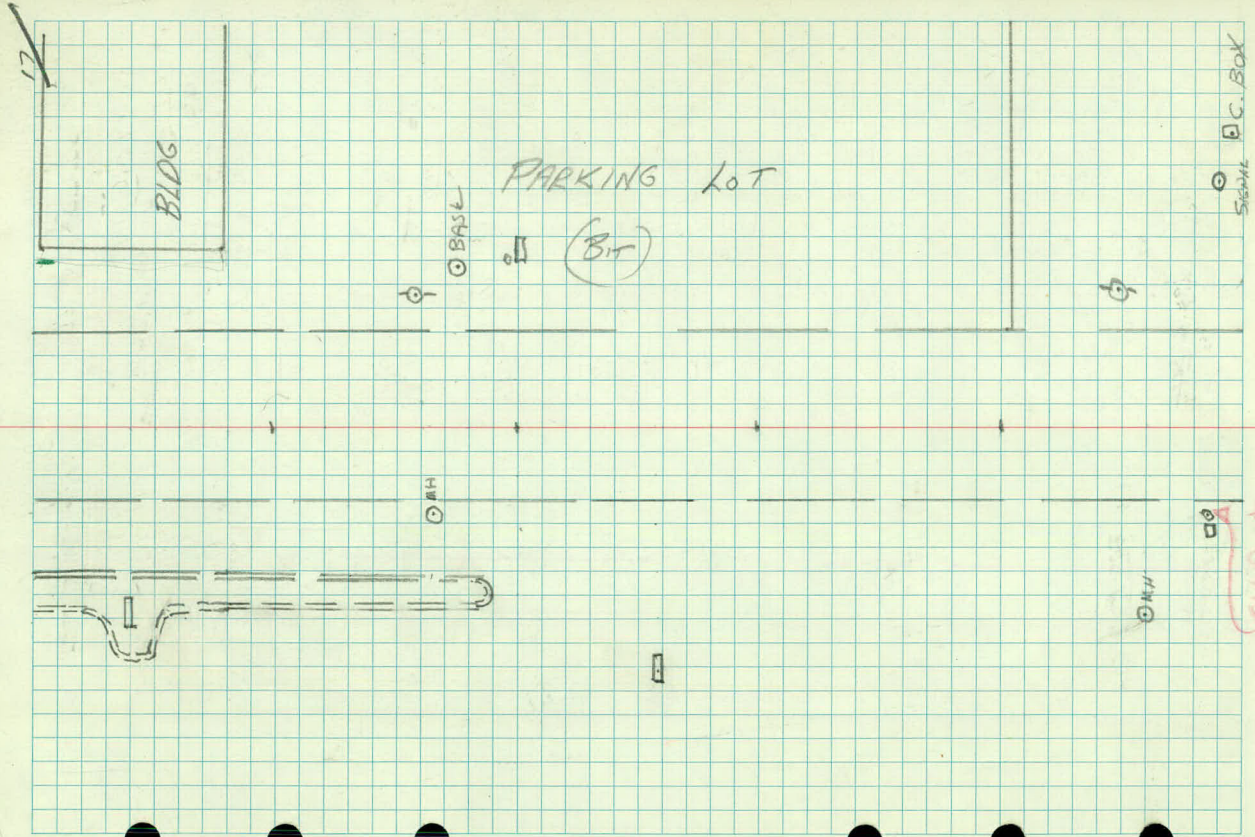
+07 RR SIGNAL 22 +07 POST 18 +26 PP 29

+05 RR SIGNAL 52

+03 CONTROL BOX R.R. 62

36

RD 15 RD 21


17
BLDG
PARKING LOT
BASE
(BIT)
C. BOX
SIGNAL
MH
MH
SH Post

STA LT ℄ RT

41

RD 20

+93 10" MAP 55

+83 NW COR BLDG (M. HALL) 78

+75 PP 25

+82 BEG TAPER 28

+76 ℄ 5' SW 26-39

+81 BEG HEDGE 56

+79 BEG SW 51-55

+69 END P-L 27 →

+69 BEG SW 67-72

+73 SE COR P-L 55

+61 3" MAP 44

+50

+38 2" MAP 40

+15 2" MAP 44

+24 ROW POST 10 34

40

RD

RD 27

+89 3" MAP 42

+66 3" MAP 44

+85 PP 26

+59 ER ENT 70

+59 COR P-L 55

+53 POR ENT 76

+47 ER 28

+50

+47 BEG BEG CONC CURB ENT 75

+47 3" MAP 61

+38 HYD 36

+35 BEG BIT CURB 32

+30 BR ENT 61

+44 ER 27

+18 MH 17

+30 BR 39

+04 WSO 35

+33 BR 32

+33 BEG P-L 32 →

39

+94 POR 32

+94 COR BIT CURB 32-80

+04 ER 32

+04 WSO 32

+04 END P-L 32 →

+86 SE COR BLDG 155

+90 ABR 36

+88 ER (B.C.) 52

+88 ABR 43

+94 POR 25

+88 END BIT CURB 80

+84 POR (B.C.) 42

+83 ABR 37

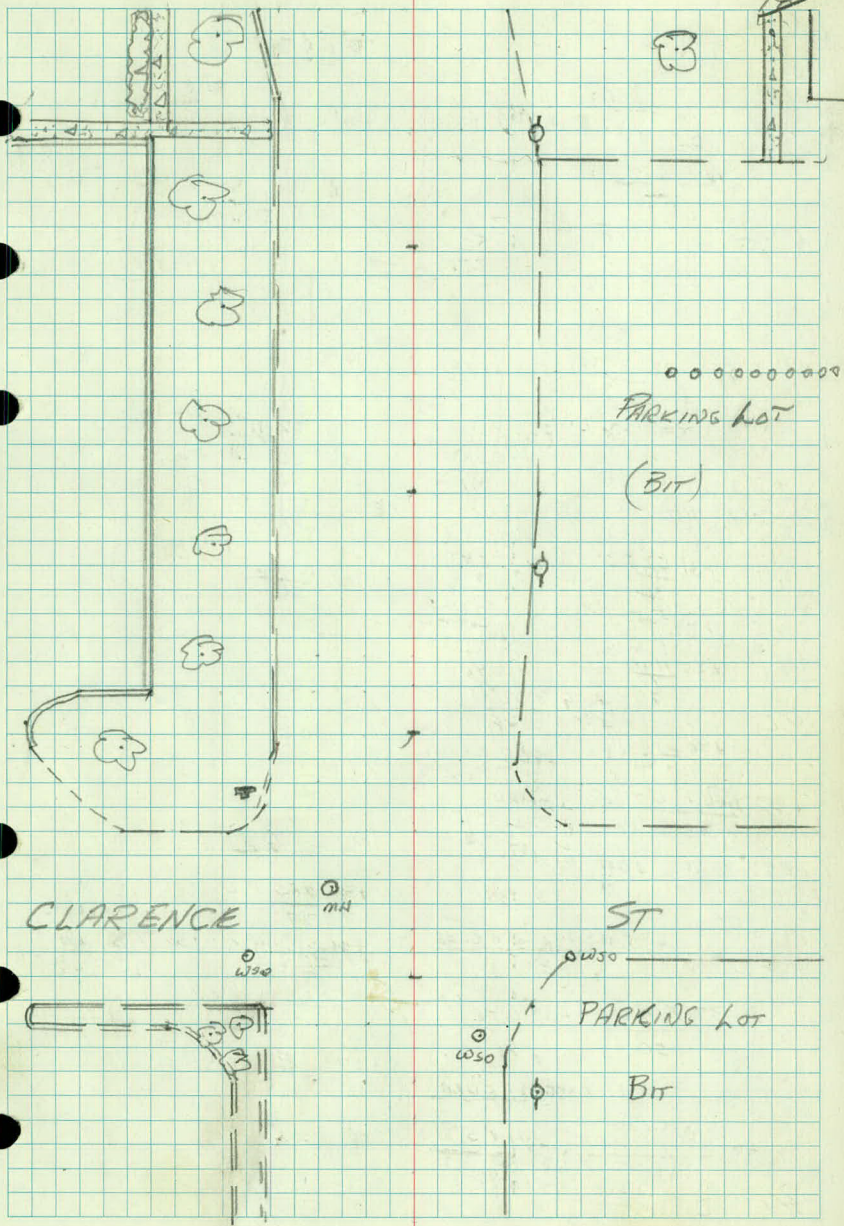
+81 PP 26

+87 WSO 14

+77 BR (B.C.) 38

+81 BR 19

38+50


PARKING LOT
(BIT)
CLARENCE
MH
ST
WSO
WSO
PARKING LOT
WSO
BIT

STA LT ℄ RT

43

+12 24" ELM 120

+72 24" ELM 88

+91 15" ASH 44

RD 20

RD 76

+93 PP 26

+99 15" ELM 60

+72 30" ELM 51

+72 18" ELM 35

+69 ER 21

+60 POR 27

+56 BR 40

+79 ER 17

+79 18" ELM 60

+65 POR 22

+65 E. END 12" CMP 25

+58 BR 32

+50

+47 MH 17

+35 WSO 33

+35 WSO 33

+12 ER ENT 69

+27 BR ENT 56

+20 POR ENT 67

+31 ER 38

+31 END S.W. 33-38

+22 PP 60

+22 COR. HEDGE 40-57

+27 ER 35

+20 POR 24

+16 4" MAP 43

+20 W. END 12" CMP 27

+25 MAP 40

+05 8" MAP 48

+12 END P-L 38

+16 BR 21

42

+96 SIGN 46 BIT

+91 BEG HEDGE 57

+64 PP 26

+83 BEG P-L ← 63

+83 END S.W. 50-57

+57 E. END 8" CMP 27

+83 SE COR BLDG 61

+65 BEG S.W. 33-38

+54 BEG P-L 37

+53 END CONC CURB 33

+49 END SW 67-72

+51 ℄ 5' SW 25

+50

+45 NE COR BLDG 78

+46 W. END 8" CMP 27

+37 E. POLE 50

+37 LITE 46

+37 ℄ MAPLEWOOD SIGN (PLANTER) 36-47

+68 BEG CONC CURB 33

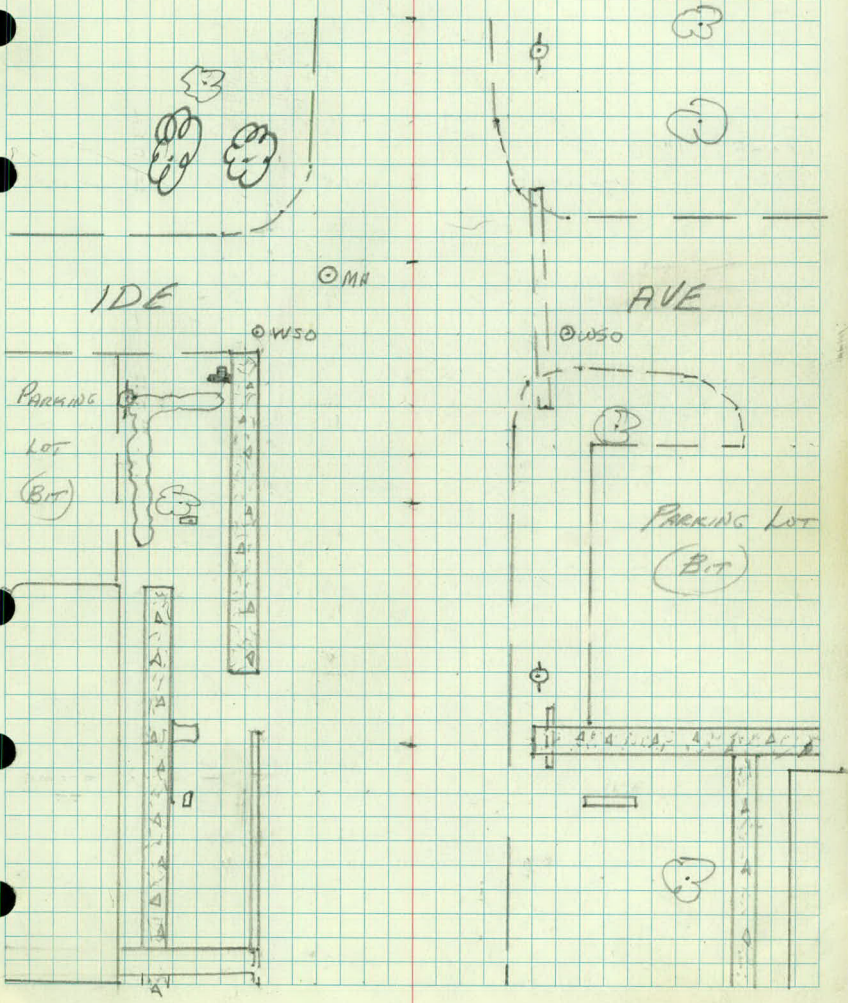
+01 SW COR BLDG 61

+04 ℄ 5' SW 33

+01 END TAPER 33

41

+23 3" MAP 57


IDE
AVE
MH
WSO
WSO
PARKING LOT (BIT)
PARKING LOT (BIT)

ML
Bw
MK
BL

20

BENCHMARKS

FROST AVE

ADELE TO BIRMINGHAM

BM	+	I	−	ELEV	
BM_1	1.53	908.97		907.44	
BM_2	1.78	905.95	4.80	904.17	
BM_3	3.07	902.44	6.58	899.37	
BM_4	1.72	899.52	4.64	897.80	
BM_5	7.55	899.49	7.58	891.94	
BM_6	4.27	901.89	1.87	897.62	
BM_7	2.32	899.98	4.23	897.66	
BM_8	5.97	902.59	3.36	896.62	
BM_9	5.28	906.87	1.00	901.59	
BM_{10}	4.17	906.83	4.21	902.66	
BM_9	4.04	902.65	5.22	901.61	
BM_8	3.24	899.87	6.02	896.63	
BM_7	4.52	902.18	2.21	897.66	
BM_6	2.21	899.82	4.57	897.61	
BM_5	7.63	899.58	7.87	891.95	
BM_4	4.56	902.38	1.76	897.82	
BM_3	6.53	905.92	2.99	899.39	
BM_2	5.15	909.33	1.74	904.18	
BM_1			1.87	907.46	907.44

Top HYD IDE + FROST

Top HYD NE COR CLARENCE + FROST

YELLOW PAINT MARK ON PIPE (BLACK) 35+50 RT 30'

Top HYD NE COR ENGLISH + FROST

SPIKE IN PP 27+80 RT 26'

Top HYD 23+50 RT 26'

Top HYD 20+50 RT 26'

Top HYD 15+85 RT 26'

Top HYD SW COR PHALEN + FROST

SPIKE IN R.C. SIGN 8+87 LT 41'

Mc
BW
NR
BL

Cloudy 31°

APRIL 7, 93 22

X-SECTIONS

FROST AVE

ADELE TO BIRMINGTON

STA	+	π	−	ELEV
BM	4.08	906.74		902.66
8+50				
9+00				
+70			℄ WATER (DIRT)	
+67			4.56	902.18
+90			℄ DITCH RT	
10+00				

LT ℄ RT

Spike R.C. Sign 8+87 LT 41

899.6	900.5	03.1	03.7	904.37	04.0	03.8	01.8	900.0	899.4
7.1	6.2	3.6	3.0	2.37	2.7	2.9	4.9	6.7	7.3
80	62	40	31		19	30	45	62	80

899.1	900.7	02.6	03.3	903.75	03.3	02.8	898.5	900.1
7.6	6.0	4.1	3.4	2.98	3.4	3.9	8.2	6.6
80	50	35	26		16	29	47	80

898.0	900.1	01.8	02.4	902.76	02.1	01.8	899.2
8.7	6.6	4.9	4.3	3.58	4.6	4.9	7.5
80	39	27	17		15	27	80

Top MH ℄ 15

902.50	02.0	01.5	898.5	896.1
4.24	4.7	5.2	8.2	10.6
	16	25	40	80

897.4	899.0	01.8	02.2	902.41	02.0	01.3	900.2	899.7
9.3	7.7	4.9	4.5	4.33	4.7	5.4	6.5	7.0
80	41	23	16		16	26	37	80

STA	+	π	−	Elev	
		906.74			
10+50					
+95			℄ BIT ENT RT		
11+30			℄ ALLEY RT (DIRT		
+59			℄ BIT ENT RT		
12+00					
T.R	0.96	902.55 ✓	5.15	901.59 ✓	901.59

LT E RS 24

896.7	899.5	01.1	01.7	901.94	01.6	01.4	01.6	902.25
10.0	7.2	5.6	5.0	4.80	5.1	5.3	5.1	4.49
80	34	23	15		15	25	42	67
								CONC SW HO

895.7	899.1	01.1	01.3	901.44	901.0	901.0	902.11
11.0	7.6	5.6	5.4	5.30	5.7	5.7	4.63
80	31	19	13		16	34	64
							CONC GAR.

900.98	900.7	899.7	899.4
5.76	6.0	7.0	7.3
	12	34	73

894.4	94.5	97.0	98.4	900.3	900.5	900.61	900.2	900.3	901.06
12.3	12.2	9.7	8.3	6.4	6.2	6.13	6.5	6.4	5.68
80	63	49	27	20	12		12	36	65
									CONC GAR.

893.9	894.3	96.8	98.3	900.1	900.1	900.01	899.9	99.7	900.8	901.6
12.8	12.4	9.9	8.4	6.6	6.6	6.57	6.8	7.0	5.9	5.1
80	59	47	28	19	12		11	27	44	65
										HO

STA	+	π	−	ELEV
		902.55		
12+50				
+87			3.26	899.29
+87			℄ PHASEN	
✓				
13+50				
14+00				

Lt Rt

25

893.6	894.2	896.4	897.6	899.4	899.5	899.57	899.4	899.6	900.8	901.2
8.9	8.3	6.2	4.9	3.2	3.1	2.98	3.1	3.0	1.7	1.4
80	58	45	30	20	12		11	29	61	80

Top MN Rt 15'

895.9	897.2	899.4	898.9	899.0	899.22	899.2	899.8	901.2
6.7	5.3	3.1	3.6	3.5	3.33	3.3	2.8	1.4
43	31	22	20	12		15	39	80

894.4	892.8
8.1	9.7
50	80

893.0	895.4	896.8	898.2	898.4	898.62	898.2	898.2	898.8	900.6
9.6	7.1	5.8	4.1	4.2	3.93	4.3	4.4	3.7	2.0
80	41	28	20	12		11	23	56	80
B.T. P.L	B.T P.L								

892.6	895.0	897.8	897.8	898.04	897.9	897.5	898.5	898.8
10.0	7.5	4.8	4.8	4.51	4.7	5.1	4.1	3.8
80	39	20	12		11	21	44	80
B.T P.L	B.T P.L							

STA	+	π	−	ELEV
		902.55		
14+50				
15+00				
+64			℄ DIRT ENT RT	
16+00			℄ BIT SPILLWAY	
+07			7.16	895.39
+23			℄ DIRT ENT RT	

LT				℄				RT
887.7	88.3	94.8	95.5	97.2	97.2	897.37	97.3	96.9	898.42
14.9	14.3	7.8	7.1	5.4	5.4	5.18	5.3	5.7	4.13
80	58	35	26	19	12		11	23	55

Conc Bldg

85.4	86.0	96.7	96.7	896.83	96.7	96.8	98.2	98.4
17.2	16.6	5.9	5.9	5.72	5.9	5.8	4.4	4.2
80	60	20	12		11	28	58	63

WALL

85.4	86.4	95.9	95.9	896.22	95.7	95.8	87.9
17.2	16.2	6.7	6.7	6.33	6.9	6.8	14.7
80	53	20	12		11	31	80

85.4	85.8	95.5	95.6	895.84	95.6	93.9	88.2	86.6
17.2	16.8	7.1	7.0	6.71	7.0	8.7	14.4	16.0
80	54	20	12		11	20	51	80

Top MH Rt 15'

				895.66	95.5	94.1	90.9
SAME AS 16+00				6.89	7.1	8.5	11.7
					11	36	75

STA	+	π	−	ELEV	
		902.55			
T.P	3.25	899.87	5.93	896.62	896.62
16+50					
17+00					
+50					
18+00					
+50					
+90					

Lt ℄ Rt 27

Top HAD 15+85 Rt

85.5 85.6 95.0 95.2 895.44 95.3 94.7 95.4 90.7 90.3 ✓
14.4 14.3 4.9 4.7 4.43 4.6 5.2 4.5 9.2 9.6
80 53 19 12 11 31 60 70 80

85.2 85.3 94.7 94.9 895.20 95.1 95.1 96.1 ✓
14.7 14.6 5.2 5.0 4.67 4.8 4.8 3.8
80 50 19 12 11 34 69
8.06

85.5 85.8 94.6 94.8 895.11 95.0 94.8 95.8
14.4 14.1 5.3 5.1 4.76 4.9 5.1 4.1 ✓
80 49 19 12 11 31 69
8.06

85.2 86.4 94.5 94.8 895.12 95.0 94.6 94.8 ✓
14.7 13.5 5.4 5.1 4.75 4.9 5.3 5.1
80 48 21 12 11 25 80

85.4 85.4 94.9 95.1 895.27 95.2 94.0 94.8 ✓
14.5 14.5 5.0 4.8 4.60 4.7 5.9 5.1
80 52 20 12 11 29 80

895.47 95.3 94.1 93.5 93.7 92.3 ✓

Same as 18+50 4.40 4.6 5.8 6.4 6.2 7.6
11 25 44 65 80

STA	+	π	−	ELEV	
		899.87			
19+00					
+27			4.89	894.98	
+27			4.72	895.15	
+50					
+80	℄ DIRT ENT LT				
BM	9.39	907.05	2.21	897.66	897.66
20+06	℄ BIT ENT LT				

LT ℄ RT

84.8	86.9	95.3	95.5	895.54	95.4	94.4	86.9	84.3
15.1	13.0	4.6	4.4	4.33	4.5	5.5	13.0	15.6
80	47	21	12		11	22	45	80

Top MH RT

Top MH LT

89.2	89.9	95.2	95.7	895.74	95.5	95.0	88.4	87.7
10.7	10.0	4.7	4.2	4.13	4.4	4.9	11.5	12.3
80	46	20	12		11	18	44	80

94.4	94.7	95.0	95.9	896.07	
5.5	5.2	4.9	4.0	3.60	SAME AS 19+50
80	50	28	12		

Top H40 20+50 RT

94.4	95.6	96.0	896.07	96.0	95.4	90.2	90.6	90.3
2.7	11.4	11.1	10.98	11.1	11.7	16.8	16.4	16.7
80	21	12		11	19	35	65	80

STA	+	Π	−	ELEV
		907.05		
20+56				
20+85	℄ BIT ENT LT			
21+50				
22+68	℄ DIRT ENT LT			
+31				
+57			10.59	896.46
23+00				

Lt									
04.95	04.4	96.0	96.2	896.20	96.2	95.9	92.0	92.6	92.2
7.1	2.6	11.1	10.9	10.85	10.9	11.2	15.0	14.5	14.9
80	71	25	12		11	20	47	66	80

04.4	96.2	96.2	896.27	96.1	95.8	92.2	93.0	
2.7	10.8	10.8	10.78	10.9	11.3	14.9	14.0	
80	28	12		11	21	43	80	

03.6	01.2	96.6	96.3	896.25	96.2	96.0	93.2	92.6	93.6	93.5
3.5	5.9	10.4	10.8	10.80	10.9	16.1	13.8	14.5	13.5	13.6
80	49	21	12		11	20	36	47	62	80

02.0	92.2	96.4	896.32	96.3	95.8	93.0	93.4	93.0
5.1	9.9	10.7	10.73	10.8	11.3	14.0	13.6	14.0
80	36	12		11	20	35	62	80

97.8	97.2	96.4	896.31	96.0	95.8	93.0	93.2
9.2	9.8	10.6	10.74	11.0	11.3	14.0	13.9
80	37	12		11	20	39	80

Top MH Lt 18

96.8	96.0	896.16	96.2	95.8	93.6	93.4
10.3	11.0	10.89	10.9	11.3	13.5	13.7
80	12		11	22	57	80

STA	+	π	−	Elev	
		907.05			
23+50					
T.P.	2.00	899.62	9.44	897.61	897.62
24+00					
+50					
25+00					
+50					

Lt			Ø		Rt		30
96.6	96.0		895.96	95.9	93.8	96.6	✓
10.5	11.1		11.09	11.2	13.2	13.4	
80	12			11	55	80	

Top HYD 23-50 Rt

96.1	95.8	95.6	895.66	95.7	95.9	95.0	94.7 ✓
3.5	3.8	4.0	3.96	3.9	4.2	4.6	4.9
80	39	12		11	18	40	80

95.9	95.1	95.3	895.37	95.3	94.9	93.7	92.7 ✓
3.7	4.5	4.3	4.25	4.3	4.7	5.9	6.9
80	38	12		11	19	44	80

95.9	94.6	94.9	895.07	95.0	94.6	92.5	91.0
3.7	5.0	4.7	4.55	4.6	5.0	7.1	8.6
80	35	12		11	19	31	80

95.9	94.9	94.4	94.2	894.69	94.6	94.4	91.7	90.4
3.7	4.7	5.2	5.4	4.93	5.0	5.2	7.9	9.2
80	42	28	18		11	17	28	80

STA	+	π	−	ELEV	
		899.62			
25+87	℄ ATLANTIC ST				
+87			5.34	894.28	
26+50					
27+00					
27+15					
T.R.	6.85	898.79	7.68	891.94	891.94

LT ℄ RT 31

91.2	94.3	894.36	94.3	94.0	90.8	89.3
8.4	5.3	5.26	5.3	5.6	8.8	10.3
80	18		11	17	43	80

Top MH LT 18'

94.68	93.7	93.7	94.01	93.8	93.4	90.1	88.6
4.94	5.9	5.9	5.61	5.8	6.2	9.5	11.0
63	38	18		12	18	32	80
Cank							

93.7	93.4	93.2	893.68	93.6	93.1	88.9	87.9
5.9	6.2	6.3	5.94	6.0	6.5	10.7	11.7
8.0	40	18		12	19	37	80

85.9	87.5	92.8	93.5	893.63	
13.7	12.1	6.8	6.1	5.99	SAME AS 27+00
80	58	50	18		

Spike in PP 27+80 LT

STA	+	π	⊥	ELEV
		898.79		
27+50				
27+46			10.99	887.80
27+45			12.20	886.59
28+00				
+50				
+53			13.07	885.76
+69			6.87	891.82
+82	BEG BIT	PARKING LOT	Lt	
29+16			5.30	893.49

LT				℄		RT			
85.4	86.6	92.9	93.1	893.53	93.9	92.9	87.7	87.7	89.9
13.4	13.2	5.9	5.7	5.26	5.4	5.9	11.1	11.1	9.7
80	57	22	18		12	17	35	56	80

So END 24" RCP RT 31'

No END 24" RCP LT 33

85.0	87.8	93.0	893.57	93.5	92.8	88.5	91.8
13.8	11.0	5.8	5.22	5.3	6.0	10.3	7.0
56	40	18		13	22	39	80
WATER							

85.0	85.7	93.3	893.70	93.7	93.0	89.7	92.7	93.3
13.8	13.1	5.5	5.09	5.1	5.8	9.1	6.1	5.5
80	43	18		14	22	36	64	80

WEST END 24" CMP LT

EAST END 24" CMP LT

93.7	92.9	93.3	93.3	92.9	93.7	893.87	93.7	92.8	90.5	92.9	93.9
5.1	5.9	5.5	5.5	5.9	5.1	4.92	5.1	6.0	8.3	5.9	4.9
80	42	42	27	27	12		15	24	33	53	80
		T.C.	T.C.								

Top MH LT

STA	+	π	−	Fwd	
		898.79			
29+50	Bit Parking Lot Lt				
30+00					
+50					
31+00					
+50					
BM	4.41	902.21	6.98	897.81	897.80

LT						C					RT
94.4	94.0	94.4	93.7	93.3	93.9	894.10	93.9	91.1	95.8	97.0	
4.4	4.8	4.7	4.1	5.5	4.9	4.69	4.9	7.7	3.0	1.8	
80	43	43 T.C.	27 TC	27	12		19	28	53	80	
	95.0	94.4	94.8	94.9	93.9	894.35	94.1	94.6	91.2	96.5	96.8
	3.8	4.4	4.0	4.4	4.9	4.44	4.7	4.2	7.6	2.3	2.0
	80	44	44 TC	27 TC	27		19	19 T.C.	29	40	80
		95.7	95.2	94.5		894.58	94.2	94.7	91.5	96.2	96.8
		3.1	3.6	4.7		4.21	4.6	4.1	7.3	2.6	2.0
		80	56	25			22	22 TC	31	37	80
			96.0	94.8		894.87	94.3	94.9	91.7	92.1	95.9
			2.8	4.0		3.92	4.5	3.9	7.1	6.7	2.9
			80	22			25	25 TC	33	35	40
895.82	895.64	95.4	95.9	95.3	94.7	895.07	94.7	95.2	92.4	92.1	95.1
2.97	3.15	3.4	2.9	3.5	4.1	3.72	4.1	3.6	6.4	6.7	3.7
80 CONC	60 CONC	45	4.3 T.C.	27 TC	27		25	25 T.C	32	34	38

NW COR ENGLISH + FROST

STA	+	π	−	ELEV
		902.21		
31+99			992	892.29
32+27	GUTTER ENGLISH (WEST)			
+19			7.60	894.61
+20			7.82	894.39
+48			6.87	895.34
+69			6.99	895.22
+78			7.39	894.82
+70	GUTTER LINE ENGLISH (EAST)			
33+00				

LT ℄ RT 34

WEST END 15" CMP RT

95.0	94.9	95.2	896.45	94.9	95.0	95.2
7.2	7.3	7.0	6.76	7.3	7.2	7.0
80	50	12		25	67	100

Top C.B. RT 27

Top C.B. LT 31

Top MH LT 18

Top C.B. LT 32

Top C.B. RT 30

896.2	95.3	95.7	895.74	95.2	95.5	95.6
7.0	6.9	6.5	6.47	7.0	6.7	6.6
80	47	12		25	50	100

96.14	95.88	896.17	96.1	95.5	896.03	95.4	96.0	95.7	896.15	95.8	95.9
6.07	6.33	6.04	6.1	6.7	6.18	6.8	6.2	6.5	6.06	6.4	6.3
66	40	40	25	25		23	23	45	76	76	80
CONC SLAB BLDG	CONC SLAB	T.C. CONC	T.C				T.C		T.C. CONC		

STA	+	X	−	Pelev
		902.21		
33+50				
34+00				
+50				
35+00				
+23			3.58	898.63
+50				

LT			Z			RT		
96.5	96.4	96.3	896.54	96.0	96.6	896.16	95.8	95.7
5.7	5.8	5.9	5.67	6.2	5.6	6.05	6.4	6.5
80	66	25		22	27 T.C.	52 T.C. Conc	52	80
	96.9	96.8	897.15	96.8	96.7	897.00	896.22	896.54	896.2
	5.3	5.4	5.06	5.4	5.5	5.21	5.99	5.67	6.0
	69 BLDG	21		22	29	29 T.C. Conc	54 T.C. Conc	51	80
98.6	97.2	97.2	897.79	97.4	897.01	96.6	96.4		
3.6	5.0	4.5	4.42	4.8	5.20	5.6	5.8		
69 BLDG	27	10		20	41 T.C. Conc	41	80		
	99.0	98.2	898.51	97.9	96.5	896.88	96.5	96.3	
	3.2	4.0	3.70	4.3	5.7	5.33	5.7	5.9	
	67	20		19	31	41 T.C. Conc	41	80	

Top M.H. LT 17'

98.1	98.3	99.1	899.28	99.0	98.3	97.8
4.1	3.9	3.1	2.93	3.2	3.9	4.4
80	41	20		19	33	80

STA	+	I	−	Elev	
		902.21			
TA	5.95	905.32	2.82	899.39	899.37
35+96		EAST RAIL			
36 +20			5.41		
36+50					
37					
+50					
+68			4.37		
38					

LT ℄ RT

YELLOW PAINT MARK 35+50 RT 30'

99.58	99.75	99.71	99.70	99.5
5.74	5.57	5.61	5.62	5.82
80	24		34	80

Top M.H. LT 39'

99.7	99.9	00.03	99.8	99.1	99.1
5.6	5.4	5.29	5.5	6.2	6.2
80	18		16	45	80
				BIT	BIT

899.4	899.5	900.2	899.48	900.0	901.2
5.9	5.8	5.1	5.84	5.7	4.1
80	36	18		18	80
					BIT

99.9	00.7	901.0	00.8	00.6	01.6
5.4	4.6	4.32	4.5	4.7	3.7
80	20		18	37	80
BIT				BIT	BIT

Top MH LT 18'

99.7	00.3	00.9	01.0	00.6	00.9	01.29	01.1	01.5
5.6	5.0	4.4	4.3	4.7	4.4	4.03	4.2	3.8
80	38	38	32	32	20		18	80
		T.C.	T.C.					BIT

STA	+	π	−	ELEV
		905.32		
38+50				
39+04	CLARENCE WEST GUTTER LINE			
39+18			3.63	
39+32	CLARENCE EAST GUTTER LINE			
T.P.	4.88	909.05	1.15	904.17 (904.17)
40+00				

Lt E Rt 37

99.4	00.4	00.9	01.0	00.5	01.2	01.62	01.3	01.4	01.72	01.76
5.9	4.9	4.4	4.3	4.8	4.1	3.70	4.0	3.9	3.60	3.56
80	38	38	32	32	20		18	34	34	38
		TC	TC						Conc S.W.	BLDG

99.9	01.4	01.97	01.7	01.9	02.0
5.4	3.9	3.55	3.6	3.4	3.3
80	20		18	71	80

Top Mk Kt 18

00.1	01.5	02.21	02.1	02.8	02.9
5.2	3.8	3.11	3.2	2.5	2.4
80	20		18	46	80

Top N90 Nk Cor Clarkson 4F

02.1	02.6	02.94	04.2	02.6	02.2	02.80	02.7	03.3
7.0	6.5	6.11	4.9	6.5	6.9	6.25	6.4	5.8
80	56	52	41	27	27		20	80
		TC Conc		T.C.				BIT

STA	+	⊼	−	ELEV
		909.05		
40+50				
41				
+50				
+46			6.25	
+57			6.17	
42				
+20			5.66	
+20	WEST GUTTER IDE LT & RT			

LT ℄ RT 38

0 2.7	0 3.2	0 3.55	0 4.9	0 3.2	0 2.7	0 3.24 ✓	0 3.2	0 3.2
6.4	5.9	5.50	4.2	5.9	6.4	5.81	5.9	5.9
80	56	56 T.C. CONC	43	71 T.C. BIT	27		18	80 BIT

0 3.76	0 3.52	0 3.2	0 3.81 ✓	0 3.6	0 3.3	0 4.9	0 5.49	0 5.9
5.29	5.53	5.9	5.24	5.5	5.8	4.2	3.56	3.2
61 BLDG	33 T.C. CONC	33		18	27	40	70 CONC S.W. ℄	77 BLDG

0 4.1	0 4.02	0 3.75	0 3.65	0 4.38 ✓	0 4.28	0 5.3	0 5.99
5.0	5.03	5.30	5.40	4.67	4.77	3.75	3.06
62	52 ℄ CONC S.W	33 TC	33		25 CONC S.W. ℄	39 CONC	80 CONC

WEST END 12" CMP

EAST END 12" CMP

0 2.7	0 3.0	0 4.3	0 4.05	0 4.94 ✓	0 4.3	0 4.2	0 5.0	0 5.4
6.4	6.1	4.8	5.00	4.11	4.5	4.9	4.1	3.7
80	63	55	33 CON S.W.		18	27	37 BIT	80 BIT

WEST END 12" CMP ~~RT~~ 27

0 2.6	0 4.1	0 5.1	0 5.25 ✓	0 5.2	0 5.6
6.5	5.0	4.0	3.80	3.9	3.5
80	35	20		18	80

STA	+	Π	—	ELEV	
		909.05			
42+47			3.68	905.37	
+56	IDE EAST GUTTER LT				
+62	IDE EAST GUTTER RT				
+65			5.14		
43					
BM			1.60	907.45	907.44

Lt ℄ Rt 39

Top MH Lt 17

0 5.2 0 5.5 0 5.51 ✓

6.9 3.6 3.54

80 20

0 5.6 ✓ 0 5.7 0 5.5

3.45 3.4 3.6

18 80

EAST END 1

0 3.4 0 5.2 0 4.9 0 6.2 0 6.0 0 6.1 ✓ 0 6.0 0 5.5 0 8.2 0 8.3

5.7 3.9 4.2 2.9 3.1 2.95 3.1 3.6 0.9 0.8

42 35 27 23 19 18 28 37 80

0 0.4

8.7

80

Top HMD IDL + FROST NE COR

ML
PK
KS
MZ

OCT 13, 83

40

STORM SEWER

EXTRA X-SECTIONS

10E TO NORTH

STA	+	π	−	ELEV
BM	5.51	908.13		902.66
9+46			12.65	895.48
	0.79	908.23		907.44
42+67	DITCH LINE EAST IDE			
			9.7	898.5

41

SPIKE IN SIGN 8+87 LT

RT 75

898.04	901.34	903.74	904.64	904.84
9.4	6.1	3.7	2.8	2.6
101	48	34	22	

LOW POINT AT 106 ✓

MC
PK
KS
MZ

Cloudy 45°

Oct 18, 83

43

Frost Ave Storm Sewer

Adeck to Birmingham

(Railroad R/W)

Sta | Lt | ℄ | Rt

+50

15 trees

+45 trip 4" Elm / 11

+00 woods / 55-63

+00 Fence / 63

+07 twin 6" Elm / 1

2

+90 Quad Elm / 12

5 trees

+64 Bog woods / 55-63

+50

+00 Fence / 63

+00 End woods / 19-63

1

+85 33" culvert / 45

+98 6" pop / 20

+86 4" Pop / 18

+50

+68 S.D. / 47

40 trees 0+00 to 1+00

+00 Fence / 63

0+00 +00 Bog woods / 19-63

5 Tiles

15 Tiles

44

STA	L	℄	R
5	+00 Woods 17-31		
	+00 Fence 52		
			+64 Twin 6" Elm 19
17 TREES	+50		
			+41 Quad 4" Elm 14
			+36 6" Elm 17
			+15 6" Elm 19
4	+00 Fence 53		
			+96 Twin 8" Elm 19
			+81 8" Elm 19
			+77 4" Elm 17
6 TREES	+89 Beg Woods 17-43		
			+71 4" Elm 17
			+66 5" Elm 17
			+55 Trip 4" Elm 17
	+50		
			+41 4" Elm 17
			+35 L.P.4 57
			+35 Apron 44
			+06 4" Elm 12
3			
	+70 F.Cor. 63		
			+97 Twin 6" Elm 11
	+70 End Woods 22-57		
			+88 4" Pop 11
10 TREES			+85 Stump 11
2+50			+56 4" Elm 11

STA	LT	℄	RT
+50			
7-8 16 trees			+46 twin 4" oak / 32
	+35 Begin woods / 15-52		
			+41 8" oak / 29
	+18 twin 6" oak / 26		
7	+00 Fence / 52		
+50			
	+02 12" oak / 50		
6	+00 Fence / 52		
			+65 twin 6" maple / 41
+50			
	+14 End woods / 19-37		
6 trees			
5			+10 Twin 8" oak / 25

STA	Lt	℄	Rt
10	+00 Fence 51		
	+93 twin 4" maple 12		
	+66 4" maple 25		+86 TRIP 4" ELM 21
			+62 quad 4" maple 16
+50			
9			
			+93 twin 5" ELM 21
+50	+50 Encl woods 15-44		
9+25			
8	+00 Fence 52		+91 S.D. 30
			+66 6" OAK 25
			+55 twin 8" OAK 25
7+50			

STA	LT	℄	RT
+50			
12			+00 woods / 23-50
+50			15 TREES
11	+00 20" OAK / 50 +00 Fence / 52		+00 woods / 22-37 +91 Beg woods / 22-37
			3 Trees
+50			
	+28 4" oak / 23 +23 6" maple / 25 +09 4" oak / 25		
10	+03 8" maple / 36		Beg woods

+00 Beg B.W. Fence
51

15

+00 woods
22-56

+50

15 Trees
14-15

14

+00 Fence
52

+00 woods
25-50

+50

25 trees
13-14

13

+00 woods
25-50

10 trees
12-13

+50

+50

17 +00 Fence 52

+50

16 +95 twin 6" 45H 40

+72 End wood 22-56

+50

45 7x EES

45-16

15

20 +00 Fence
52

+50

19 +00 Fence
52

+50

+06 4" C.W.
25

18 +00 Fence
52

+50

+50

22 +00 Fence / 52 ✓ +00 Fence / 35 ✓

+50

21 +00 Fence / 52 ✓

+50

20

25

+50

24

+50

23 +00 Fence
52

+82 Fence
29

+50

ML
PK
KS

Oct 24, 83

Cloudy 43°

54

STADIA - FROST AVE

STORM SEWER

RAILROAD RIGHT OF WAY

WEST POND

	L	DIFF	DIST	VERT
	T @ 3+00 SIGHT 3+40			
✓1	245°03'	.65	65	
✓2	274°50'	.82	82	
✓3	293°46'	.65	65	
✓4	319°30'	.75	75	
✓5	319°30'	.76	76	
✓6	282°30'	.92	92	
✓7	298°20'	.74	74	
✓8	324°20'	1.10	110	
✓9	331°30	1.67	167	
✓10	329°30	2.42	242	
✓11	315°30	2.90	290	
✓12	299°40°	3.10	310	
✓13	292°50"	2.75	275	

COR FE

COR FE

15" RCP SO END

24" CMP

COR FE

Pond

15" RCP NO END

POND

POND

POND

POND

POND

POND

EAST POND

KELLER GOLF

	∠	DIFF	DIST
	⊼ @ 9+50 SIGHT 10+00		
✓ 1	285° 40'	.52	52'
✓ 2	270° 30'	1.05	105
✓ 3	252° 50'	2.55	255
✓ 4	235° 30'	2.55	255
✓ 5	221° 20'	1.66	166
✓ 6	196° 30'	1.65	165
7	283° 00'	.31	31
	⊼ @ 8+00 SIGHT 8+50		
9, 8	253° 20'	.26	26

POND

POND

POND

POND

POND

POND

POND

COR POND, 15" CMP

MC
PK
KS

OCT 26, 82

SUNNY 50°

58

ABANDONED R/W

SOO LINE RR IN SEC 16-19-22

BENCH MARKS

STA	+	Π	−	
BM1	0.53	903.19		902.66
	5.12	896.90	11.41	891.78
	2.74	893.54	6.10	890.80
	3.27	888.62	8.19	885.35
	4.38	884.75	8.25	880.37
			5.13	879.62

SPIKE IN R.C. SIGN 8+87 ℄ 41'

EAST SIDE HUB 19+00 ℄

EAST SIDE HUB 14+60 ℄

" " " 9+00 ℄

" " " 3+40 ℄

" " " 0+00

ML
PR
KS

Oct 26, 83
Sunny 50°

60

ABANDONED R/W
SOO LINE R.R. IN SEC 16-19-22
X - SECTIONS

STA	+	π	−	Elev
	5.13	884.75		879.62
0+00				
+50				
1+00				
+50				
	5.32	885.06	5.01	879.74
2+00				

LT ℄ RT

EAST EDGE HUB 0+00 ℄

63.25	73.45	76.15	78.75	79.05	879.65	79.15	77.85	72.65	72.15	76.15
21.5	11.3	8.6	6.0	5.7	5.1	5.6	6.9	12.1	12.6	8.6
42	24	16	10	7		5	12	26	32	56

61.15
23.6
56

879.45
5.3
879.55
5.2
879.65
5.1

64.06	61.26	79.36	879.76	78.86	71.16	69.56	70.16
21.0	28.8	5.7	5.3	6.2	13.9	15.5	14.9
52	42	9		8	20	35	42
FE							

71.76
13.3
52

STA	+	π	−	Ech
		885.06		
2+50				
3+00				
+50				
T.P.	5.65	886.03	4.68	880.38
4+00				
3+35				25.70
3+35				24.77
4+50				
5+00				
5+50				
T.P.	5.43	888.28	3.18	882.85
6+00				

LT ℄ RT

879.86
5.2
880.06
5.0
880.46
4.6

HUB 3+40 ℄

62.43	62.13	63.73	80.13	880.83	79.93	68.23	68.43	71.63
23.6	23.9	22.3	5.9	5.2	6.1	17.8	17.6	14.4
52	45	38	8		8	36	43	55

F.L. 15" RCP So. END

POND ELEV.

881.23
4.8
881.83
4.2
882.33
3.7

HUB 6+00 ℄

78.28	84.58	82.68	882.88	80.98	73.08	72.7
10.0	3.7	5.6	5.4	7.3	15.2	15.58
52	18	8		23	52	59
						T.O.

STA	+	⊼	−	ELEV.
		888.28		
6+50				
7+00				
7+50				
T.P.	4.89	889.43	3.74	884.54
8+00				
7+92			13.96	
7+92			17.26	
7+92			17.23	
8+00			16.98	
8+50				
9+00				
+50				
T.P.	4.68	891.40	2.71	886.72

LT ℄ RT

883.08
5.2
883.68
4.6
884.28
4.0

HUB 8+00 ℄

72.45 83.73 884.53 83.43 76.23 75.83 77.33 77.42
16.98 5.7 4.9 6.0 13.2 13.6 12.1 12.01
29 7 9 29 34 44 52
WATER T.C.

T.C. 5.0

F.G. 3.0

F.L. 15" CMP LT 29

POND ELEV

884.53
4.9
885.31
4.12
886.03
3.4

884.34

10+00 HUB ℄

STA	+	π	−	ELEV
		891.40		
10+00				
10+50				
11+00				
11+50				
T.P.	10.35	899.11	2.64	888.76
12+00				
T.P.	15.70	905.06	9.76	889.35
12+50				
13+00				
13+50				
14+00				

LT ℄ RT

79.0	79.6	86.4	886.7	886.0	84.5	86.2	85.6
12.4	11.8	5.0	4.7	5.4	6.9	5.2	5.8
52	26	9		8	21	28	60

887.2
4.2
887.7
3.7
888.2
3.2

HUB 12+00 ℄

92.61	85.91	86.01	88.71	888.71	88.61	87.31	93.31	93.61
6.5	13.8	13.1	10.4	10.4	10.5	11.8	5.8	5.5
52	38	13	5		6	16	31	44

13+50 HUB

889.35
15.7
889.95
15.1
890.25
14.8

96.25	87.75	87.75	90.55	890.75	90.45	88.85	96.15	97.75
8.8	17.3	17.3	14.5	14.30	14.6	16.2	8.9	7.3
52	39	13	8		8	13	35	48

	+	⊼	−	ELEV
		905.05		
14+50				
15+00				
15+51				
T.P.	12.06	903.35	13.76	891.29
16+00				
16+50				
17+00				
17+50				
T.P.	13.45	905.16	11.64	891.71
18+00				

LT ℄ RT

14.2 890.85

14.0 891.05

13.9 891.15

HUB 16+00 ℄

97.65	87.96	88.05	91.35	891.25	91.05	90.25	91.55	97.05	95.55
5.7	15.4	15.3	12.0	12.1	12.3	13.1	11.8	6.3	7.8
52	32	24	9		10	13	30	49	60
FR									

12.0 891.35

11.7 891.65

11.7 891.65

HUB 18+00 ℄

97.26	88.26	87.76	90.76	891.66	91.36	90.56	90.46	97.76	98.06
7.9	16.9	17.4	14.4	13.5	13.8	14.0	14.7	5.4	7.1
52	34	20	10		5	8	30	50	65

	+	π	−	ELEV
		905.16		
18+50				
19+00	5.40	897.19	13.37	891.79
20+00				
BM	0.33	901.92		901.59
20+00			10.0	
21			9.8	
22			9.8	
23			9.5	
24			9.5	
25			9.7	
26			9.5	
27			8.9	
28			8.8	
29			8.7	
30			8.3	

891.66

13.5

93.99	93.49	87.09	86.89	90.39	89.79	90.79	87.59	87.39	90.99	91.99
2.2	2.7	9.1	9.3	5.8	5.4	5.4	8.6	8.8	5.2	7.2
52	48	36	19	8		6	18	35	53	70
KE										

Top 1440 PHALEN + FROST

891.92

892.12

892.12

892.42

892.42

892.22

892.42

893.02

893.12

893.22

893.62

ML
PK
MR
BL
MK

Nov 15, 88
Cloudy 33°

68

TOPOGRAPHY

ENGLISH ST @
FROST AVE

LT ℄ RT

+50

+47 COR P-LOT
57

+41 END CURB
57

+42 BEG BIT 4' SPILLWAY
57

+17 6" MAP
32

+24 COR P-LOT
37-57

2

+00 RO
22

+00 RO
22

+88 10" MAP
33

+72 BEG CONC CURB
30-56

+50

+96 END CONC CURB
30-56

+29 8" MAP
32

+09 12" OAK
69

+10 8" MAP
32

1

+00 RO
22

+00 RO
22

+00 P-LOT
37

+99 LITE
36

+55 8" MAP
31

+75 PP
30

+50 RR
22

+44 COR P-LOT
31

+50

+45 BEG BIT CURB
22

+44 CONC CURB
31-56

+44 BB
31

+16 36" OAK
47

+44 BEG BIT CURB
31

+16 END CURB
30

+08 4" MAP
50

+16 COR P-LOT
74

0+00

+00 RO
22

+00 RO
21

+02 COR BIT P-LOT
74

+02 CONC

LT | E | RT

5

+00 ARB 27 | +00 RD 24 | +00 RD 23 BEC | +94 BIT CURB 26 | +96 COR PILOT 49

+92 4" APPLE 27 | +88 ARB 27 | +92 END HEDGE 30 | +92 COR FE 32

+79 BUSH 27 | +82 BUSH 27 | +88 24" ASH 35 | +68 24" ASH 35

+74 ARB 27 | +70 BEC MED 24-31 | +52 PP 26

+50 | +46 END MED 25-31 | +49 48" OAK 35 | +49 BEC FE 32

+36 BUSH 30 | +38 & BIT ENT 9' | +45 BEC HEDGE 36

+33 LITE 43 | +32 BEC MED 25-31 | +28 4" PINE 35 | +32 END FE 32

+33 ARB 30 | +14 END MED 26-33

+12 NE COR BLDG 82 | +10 COR FE WOOD 32

4

+00 END ISLAND 53 | +00 RD 26 | +00 RD 21 | +00 OIL DRAIN 34

+88 PP 28 | +97 NW COR BLDG 50

+86 SE COR BLDG 82 | +86 PUMP ISLAND 3' 53

+85 BEC CONC SLAB 39-66 | +83 BEC HEDGE 29 | +75 NO END 12" CMP 22

+78 SO END BIT CURB 26-32 | +69 SW COR BLDG 50

+50

+48 SO EDGE ENT 26

+37 ER 26 | +38 END 28 | +32 ER 33 | +32 END BIT CURB 33

+27 BR 39 | +25 BR 39

3

+74 ER 37 | +76 ER 44

+68 PP 37 | +68 POR 33 | +70 POR 31 | +70 & NO 4' SPILLWAY 31

2+50 | +52 BR 22 | +50 BR 22

LT ℄ R

+92 4" MAP
39

+77 SIGN
38

+77 SW CON BLDG
63

+66 4" MAP
40

+72 END CONC CURB
48

+61 ER
24

+61 ER
48

6

+54 POR
27

+54 POR
47

+82 W SO.
25

+50 BEG CONC CURB
33

+66 END MED.
25-31

+78 W 50
13

+50 BR
33

+50 BEG BIT CURB
33

+60 ARB
28

+63 PP
28

+50 ER
39

+50

+53 2" APPLE
28

+25 END BIT CURB
33

+25 ER
40

+25 ER
33

+25 END CONC CON.
33

+47 4" CEDAR
28

+35 BUSH
28

+41 2" APPLE
28

+21 POR
26

+21 POR
47

+28 BEG MED
25-31

+32 ARB
28

+13 BR
24

+17 BR
49

5

+05 END MED
24-31

+10 2" MAP
46

MR
PR
BL
MR

OCT 15, 83

Cloudy 35°

72

X-SECTIONS

ENGLISH ST @

FROST AVE

STA	+	⊼	−	ELEV
BM	3.03	900.83		897.80
0+00				
+30			℄ BIT ENT RT	
1+00				
+59			℄ BIT ENT RT	
2+00				
+50				

LT ℄ RT

Top HYD FROST & ENGLISH

95.83	95.93	95.93	96.43	95.83	96.13	96.03
5.0	4.9	4.9	4.4	5.0	4.7	4.8
80	70	22		20	55	80

96.13	95.93	96.33	95.83	96.03	96.23
4.7	4.9	4.5	5.4	4.8	4.6
80	21		19	32	80

95.43	95.23	96.03	95.53	96.03	95.83	96.33	96.32	96.03	95.93
5.4	5.6	4.8	5.3	4.8	5.0	4.5	4.51	4.8	4.9
80	37	22	22		22	22	37 T.C.	37	80

95.63	94.73	95.53	95.93	95.43	95.83	95.43	95.83
5.2	6.1	5.7	4.9	5.4	5.0	5.2	5.0
80	38	31	22	22		22	80

96.13	96.13	95.73	95.73	95.13	95.73	95.63	96.23	96.11	95.93	95.63
4.1	4.1	5.6	5.1	5.7	5.1	5.2	4.6	4.72	4.9	5.2
80	74	34	22	22		22	22	37 T.C.	37	80

95.93	95.23	95.83	95.33	95.53	95.53	96.13	95.63	96.13	95.13	95.43	95.83
4.9	5.6	5.0	5.5	5.3	5.3	4.7	5.2	4.7	5.7	5.4	4.9
80	40	22	22		22	22	46	46	51	51	80

STA	⊥	⊼	–	ELEV
		900.83		
3+00				
T.P.	5.30	900.52	5.61	895.22
+50	BIT ENT LT		BIT ENT RT	
+75			6.64	893.88
4+00				
+38			℄ BIT ENT RT	
+50				
T.P.	5.33	900.94	4.91	896.61
+91				

95.03	95.33	95.63	95.93	96.33
5.8	5.5	5.2	4.9	4.5
80	40		40	80

S.W. Cor. P.B. 3+25 Rt 22

95.12	94.92	95.32	95.32	95.92	96.27
5.1	5.6	5.2	5.2	4.60	4.25
80	25		23	48	80
				Conc	Conc

F.L. 12" CMP Rt 22

95.75	95.53	95.32	95.82	95.42	95.12	95.32	94.82	94.92	96.12
4.77	4.99	5.2	4.7	5.15	5.4	5.2	5.7	5.6	4.4
63	39	32	32	25	25		22	34	49
Conc	Conc								

95.82	95.52	95.92	95.62	95.32	95.42	95.02	95.92
4.7	5.0	4.6	4.9	5.3	5.1	5.5	4.6
80	31	31	24	24		22	80

95.92	95.22	95.42	94.92	95.52	96.12	96.12
4.8	5.3	5.1	5.6	5.0	4.4	4.4
80	24		22	26	30	80

96.04	95.24	95.64	95.04	95.74	98.14	98.44	97.84
4.9	5.7	5.3	5.9	5.2	2.8	2.5	3.1
80	25		22	29	37	57	80

STA	+	π	−		
		900.94			
+95					
5+37					
BM			3.13	897.81	897.80

L E R

96.04	95.34	95.64	95.04	95.94	96.14	96.14
4.9	5.6	5.7	5.9	5.0	4.8	4.8
80	24		22	36	50	80

96.24	95.44	95.64	95.04	95.94	96.54
4.7	5.5	5.3	5.9	5.0	4.4
80	24		20	30	80

Top 1990 FROST & ENGLISH

ELEVATIONS BEHIND
RICHARD'S MARKET

STA	+	π	−	ELEV
	2.75	902.12		899.37
			9.20	893.12
			11.1	891.1

LOW POINT BIT BEHIND RICHARDS MKT.

LOW POINT IN LOT BEHIND RICHARDS

MC
PK
CH

May 22, 84
Sunny 70°

78

Richards MKT.
Proposed Storm Sewer
36+26t (Apron 44)
Lt 270'

	+	⊼	−	ELEV
BM	7.51	906.58		899.31
APRON 44			13.65	892.93

YELLOW MARL PIPE 35 + 15 ±

79

NATURAL GROUND APRON 44 (Proposed)

ML
PK
MR
BL
MZ

Cloudy 40°

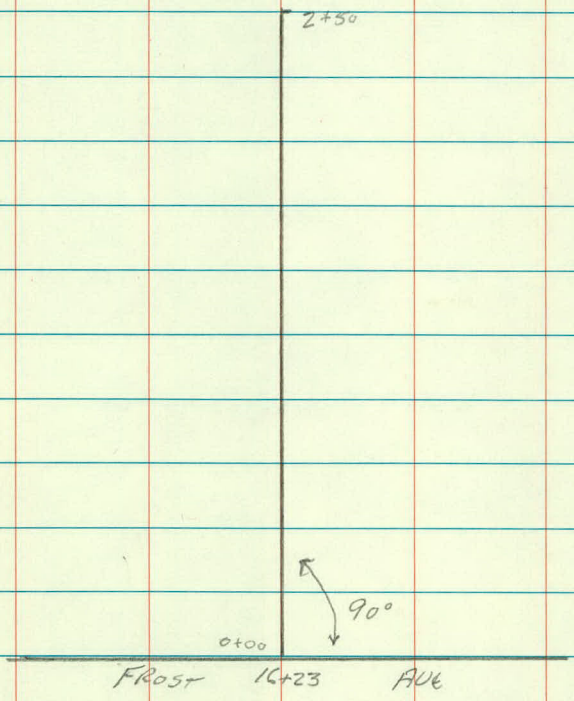
80

ALINEMENT
EDWARD ST @
FROST AVE

STA

2+50

0+00


2+30
90°
0+00
FROST
16+23
AVE

ML
PK
MR
BL
MZ

NOV 18, 83

Cloudy 40°

82

TOPOGRAPHY

EDWARD ST @

FROST AVE

STA LT ℄ RT

+50 +50 FE 14 +50 ENT 9 +50 ENT 0 +50 END WOODS 10-40

+15 BEG WOODS (17) 10-40

2 +00 FE 14 +00 ENT 8 +00 ENT 2 +07 8" ELM 9

+78 CORFE 14 +80 4" ELM 13 +78 WEST END GATE 26

+69 EAST END GATE 44

+50 +44 LTR BASE 28 +66 END SPILLWAY 22

+23 SW COR BLDG 45 +50 ENT 10

+18 ℄ DIRT ENT 20' +23 BEG ℄ C-L 45

+10 END WALL 26-45 +40 DIRT ENT 12'

+00 COR CONC RET WALL 26-45 +00 EDGE ENT 10 +00 EDGE ENT 10 +00 SPILLWAY 32 +22 QUAD 8" POP 20

+68 NW COR BLDG 45 +72 END WALL 45

+61 COR RETWALL 23 +58 END SIGN 29

+67 8" ELM 19

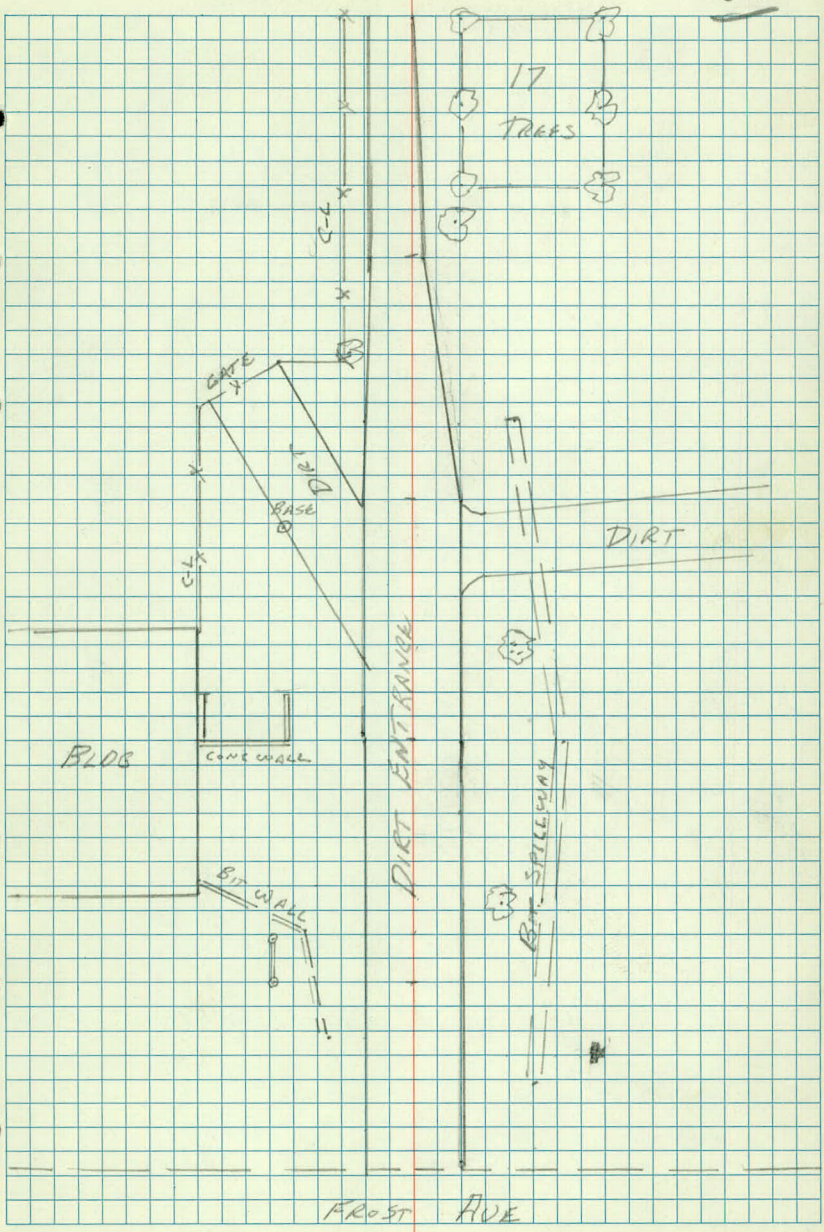
+50 +50 BEG SIGN 29

+34 HYD 38

+29 BEG BT SPILLWAY 5' 25

+38 BT RET WALL 17 +12 RD 0 +12 ENT 10

0+00 +12 ENT 10


LT
℄
RT
17
TREES
C-L
GATE
BASE
C-L
DIRT
DIRT ENTRANCE
BLDG
CONC WALL
BT WALL
BT SPILLWAY
FROST AVE

X-Sections

Ent 16+23

EDWARD ST & Frost Ave

STA	+	π	—	ELEV
	3.80	900.42		896.62
0+00				
0+25				
0+50				
0+59				
0+72				
1+04				

Top Hyd 15+85 RT 26

95.1	95.3	95.6	96.0	96.4
5.3	5.1	4.8	4.4	4.0
80	40	0	40	80

95.0	94.1	94.4	℄ 94.2 spillway	94.9	96.0	96.5
5.4	5.7	6.0	6.2	5.5	4.4	3.9
80	40	0	25	32	63	80

95.1	95.4	92.8	92.7	92.5	92.7	89.6 spillway	91.1	92.8	93.3	91.9
5.3	5.0	7.6	7.7	7.9	7.7	10.8	9.3	7.6	7.1	2.5
80	26	13	0	8	17	28	40	50	71	82

95.6	95.4	92.2	91.8	91.8	91.9	92.3	88.3 spillway	89.4	91.3	91.7
4.8	5.0	8.2	8.6	8.6	8.5	8.1	12.1	11.0	9.1	8.7
80	30	17	12	0	9	19	29	40	50	73

90.6	90.8	90.9	91.0	91.3	87.3 spillway	88.3	90.3	90.0
9.9	9.6	9.5	9.4	9.1	13.1	12.1	10.1	10.4
44	13	0	8	20	31	41	53	74

92.6 Top	90.7	86.3	88.7	88.4	88.9	86.4 spillway	87.4
10.26	10.20	12.1	11.7	12.0	11.5	14.0	13.0
45	27	8	0	10	23	33	80

86.6 86.4

13.8	14.0
27	45

Bottom of Wall

STA	+	TJ	—	ELEV	
		900.42			
1+40					
1+68					
2+00					
2+50					
		900.42	2.72	897.70	897.74

85.1	85.6	86.1	86.2	86.2	85.6	86.8	
	F.E.				spillway		
15.3	14.8	14.3	14.2	14.2	14.8	13.6	
80	45	11	0	11	22	80	

85.1	85.6	85.9	85.9	85.9	85.2	86.6	87.2
15.3	14.8	14.5	14.5	14.5	15.2	13.8	13.2
80	44	10	0	10	23	41	75

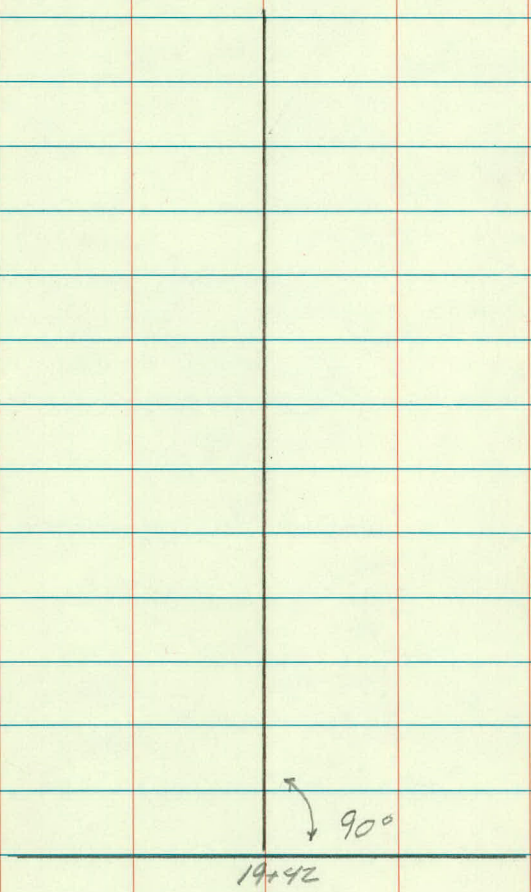
85.4	85.7	86.2	85.8	85.7	85.7	84.4	84.8	87.0	87.2
15.0	14.7	14.2	14.6	14.7	14.7	16.0	15.6	13.4	13.2
80	45	14	8	0	2	23	33	53	80

86.9	86.7	86.6	86.0	85.9	85.6	84.5	84.4	87.2	87.2
								F.E.	
13.5	13.7	13.8	14.4	14.5	14.8	15.9	16.0	13.2	13.2
80	45	14	10	0	10	19	34	46	80

Top Hyd 20+50 RT 26

ALINEMENT
FRANK ST @
FROST AVE

STA	
3+00	PGT
0+00=	PI
19+42	


90°
19+42

ML
PK
MR
BL
MZ

Nov 18, 83

Cloudy 40°

TOPOGRAPHY
FRANK ST @
FROST AVE

LT ℄ RT

+50

+49 6" OAK
37

+31 COR GRAVEL P-LOT
51 →

2+00 +00 14" OAK
13

+00 ENT
39-51

+84 6" ELM
57

+94 12" OAK
13

+70 TRIPLE 6" ELM
65

+83 CESS POOL
57

+50

+53 6" MAP
50

+58 4" MAP
45

+50 ENT
36-46

+37 12" OAK
13

+18 END BIT
76-91

+32 NW COR HO

+30 14" OAK
13

+05 19" ELM
74

+01 4" OAK
14

1+00 +10 14" OAK
13

+00 ENT
33-43

+00 ENT
76-91

+86 ℄ 16' BIT
76 →

+91 TWIN 4" OAK
74

+94 SW COR HO
91

+90 20" OAK
13

+78 ENT
76-87

+88 TWIN 4" ELM
29

+63 8" OAK
10 TWIN

+80 4" OAK
7

+83 6" ELM
91

+63 6" OAK
23

+58 4" OAK
5

+58 8" MAP
50

+98 8" ASH
64

+50

+58 ENT
30-41

+50 ENT
61-73

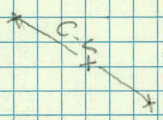
0+00 +12 END

+12 ENT
31-41

+12 ENT
51-66

GRAVEL
P-LOT
CESS
PROL
GRAVEL
FROST AVE

STA	LT	℄	RT
3+00	+08 FE / 40		
	+83 FE (C.L) / 19		
			+58 TWIN 4" OAK / 12
2+50			


C.S

5-A

X - SECTIONS
FRANK ST @
FROST AVE

STA	+	↗	−	ELEV
	8.39	906.05		897.66
0+00				
0+20				
0+43				
0+83				
1+50				
T.P.	7.24	907.07	6.22	899.83

Top Hyd 20+50 RT 26

95.3	95.7	96.1
10.7 / 80	10.3 / 0	9.9 / 80

95.0	95.2	95.2	95.8	95.7
11.0 / 80	10.8 / 0	10.8 / 37	10.2 / 60	10.3 / 80

85.3	87.2	88.8	94.5	95.0	98.1	98.1	98.5
20.7 / 80	18.8 / 40	17.2 / 0	11.5 / 32	11.0 / 45	7.9 / 55	7.9 / 60	7.5 / 72

86.4	86.9	88.9	87.4	88.2	91.1	94.4	94.6	903.9	904.7
19.6 / 80	19.1 / 40	17.1 / 10	18.6 / 7	17.8 / 0	14.9 / 23	11.6 / 33	11.4 / 44	2.1 / 69	1.3 / 80

85.2	85.2	87.1	87.9	87.0	87.7	90.8	94.2	874.8	903.2	904.4
20.8 / 80	20.8 / 57	18.9 / 37	18.1 / 17	19.0 / 8	18.3 / 0	15.2 / 25	11.8 / 35	11.2 / 47	2.8 / 65	1.6 / 80

Top Sewer Vent Pipe

STA	+	π	−	ELEV
		907.07		
2+20				
2+33				
3+00				
			10.42	896.65

883.9	85.0	87.9	87.5	88.4	90.0	94.3	894.9	901.7	901.6
23.2 / 80	22.1 / 55	19.2 / 20	19.6 / 9	19.7 / 0	17.1 / 21	12.8 / 40	12.2 / 52	5.4 / 75	5.5 / 80

83.9	85.0	88.0	87.5	87.8	88.3	91.7	94.4	96.1
23.2 / 80	22.1 / 55	19.1 / 20	19.6 / 9	19.3 / 0	18.8 / 10	15.4 / 15	12.7 / 45	11.0 / 80

85.1	84.9	87.3	86.6	86.6	91.3	93.3	94.1
22.0 / 80	22.2 / 58	19.8 / 15	20.5 / 0	20.5 / 7	15.8 / 14	13.8 / 49	13.0 / 80.

Top Hyd 15+85 RT 26

ML
PK
MR
BL

DEC 1, 83
SUNNY 11° 95

WATERMAIN ELEVATIONS

LOCATION	+	π	−	ELEV
				901.59
12+72				

Top HYD FROST + PRIALEN

WSO RT 30

ML
PK
MR
BL

MAR 29, 84

CLOUDY 30°

48

ALINEMENT

FIRST AVE STORM SEWER

14+00 = 0+00

STA

MC
PK
MR
BL

MARCH 29TH 84

Cloudy 30° 100

X - SECTIONS

(Flicek Pink)

FROST AVE STORM SEWER

Survey

4? Frost 14+00 = 0+00 Flicek

Flicek

STA	+	⊼	-	ELEV
	0.70	902.29		901.59
1+00				
2+00				
+35				
+67				
+90				
3+04				

Lt ℄ Rt

Top 1440 NW Cor PHALEN & FROST

92.69	891.99	91.69	87.59	86.59
9.6	10.3	10.6	14.7	15.7
66		19	44	55
FE				FE

91.89	91.89	890.89	90.59	85.39	84.79
10.4	10.4	11.4	11.7	16.9	17.5
72	38		15	45	60

91.89	890.99	90.49	85.39	84.99
10.4	11.3	11.8	16.9	17.3
70		13	40	55

96.99	96.89	897.39	94.39	89.69
5.3	5.4	4.9	7.9	12.6
70	30		40	70

96.09	95.79	896.89	95.29	90.09
6.2	6.5	5.4	7.0	12.2
60	20		25	58

91.39	890.79	90.79	90.79
10.9	11.5	11.3	11.5
60		30	60

STA	+	π	-	ELEV
		902.29		
3+31				
+43				
+68	FENCE LINE			
	R.R. RIGHT OF WAY			
20+00				
21				

Lt		~~Rt~~		Rt
90.79	91.49	~~891.49~~	90.89	88.79
11.5	10.8	11.8	11.4	13.5
60	45		43	60

99.09	900.29	~~897.09~~	86.59
3.2	2.0	5.2	15.7
60	40		60

900.19	90.39	~~895.95~~	84.09
2.1	0.9	6.3	18.2
60	30		60

95.29	88.29	88.09	91.89	~~891.89~~	91.99	88.79	92.9
7.0	14.0	14.2	10.4	10.4	10.3	13.5	10.1
50	37	20	5		5	29	51

88.79	89.19	92.09	~~892.19~~	91.99	89.29	89.59	92.09	92.29
13.5	13.1	10.2	10.1	10.3	13.0	12.7	10.2	10.0
50	19	6		5	14	21	31	65 FE

STA	+	π	−	ELEV	
		902.29			
22					
23					
24					
BM			5.68	896.61	896.62

Lt Rt 103

87.79	86.99	87.79	91.69	892.09	92.09	90.09	92.19	92.59
14.5	15.3	14.5	10.6	10.2	10.2	12.2	10.1	9.7
50	45	19	7		5	11	19	36

98.99	98.69	90.79	92.19	892.39	92.09	91.09	96.19	97.19
3.3	3.6	11.5	10.1	9.9	10.2	11.2	6.1	5.1
50	33	15	5		5	11	24	47

91.19	92.29	91.39	92.39	892.39	92.09	90.99	94.69	94.59	87.59
11.1	10.0	10.9	9.9	9.9	10.2	11.3	7.6	7.7	12.7
50	22	11	5		6	13	28	49	66

Top Hep 15+85 Rt 26'

BW
PK
RL

4-24-84
PC 64

104

Frost Ave. 62-628-04

Additional X-Sections

Pond 27+00 Lt

Otherwise Pond

Sta	+	HI	−	Elev
BM	4.32	896.26		891.94
+93				
27+00				
+15				
+50				
28+00				

Lt ℄ Rt

Spike PP 27+80 Lt

89.4 87.3 94.1 94.2 93.9 93.4 92.7

6.9 9.0 2.2 2.1 2.4 2.9 2.55
175 147 128 100 72 18

92.7 89.1 87.9 85.7 87.6

8.4 10.6 8.7
250 200 169 144 80

90.1 88.2 85.7 85.6 85.5

10.6 10.7 10.8
225 200 160 135 80

95.4 84.5 84.5

0.9 11.8 11.8
155 121 63 56

Sta	+	π	−	Elev	
		896.26			
+50					
+82					
			4.45	891.81	891.82

Lt	℄	Rt
95.2	86.8	85.2
1.1	9.5	11.1
156	123	80

95.3	93.8
1.0	2.5
154	80

East End 24" CMP 28+69 Lt

MC
PC
MR
BL

SUNNY 50°

MAY 14, 84

106

ATLANTIC ST

X-SECTIONS

& X-SECTION EXTENDED

21+00 + 21+50

FROST AVE

STA	+	π	−	ELEV
	8.59	900.53		891.94
0+00				
0+18				
0+50				
1+00				
+35			Top DITCH Rt	
+45			℄ DITCH BOTTOM	

LT ℄ RT

Spike PP 27+80 RT

95.1 94.8 94.4 94.1 93.7

5.4 5.7 6.1 6.4 6.8
100 50 50 100

94.8 94.3 94.3 93.7 93.3

5.7 6.2 6.2 6.8 7.2
100 50 50 100

95.1 95.1 92.3 92.3 92.5 94.0 93.9

5.4 5.4 8.2 8.2 8.0 6.5 6.6
80 32 11 12 50 80
P-Lot

96.4 96.8 91.6 91.2 91.1 91.2 93.8

4.1 3.7 8.9 9.3 9.4 9.3 6.7
80 33 19 13 10 48
P-Lot BLDG

97.1 91.4 90.9 90.9 90.9 92.6 93.8

3.4 9.1 9.6 9.6 9.6 7.9 6.7
33 22 10 9 49 80
FE

97.1 91.2 90.9 90.9 90.9 89.2 87.9

3.4 9.3 9.6 9.6 9.6 11.3 12.6
33 22 11 10 46 80
FE

STA	+	π	−	ELEV
		900.53		
1+51			Top Ditch Rt	
2+00				
T.P.	3.41	897.92	6.02	894.51
		X-SECTIONS EXTENDED		
27+00				
27+50				
BM			6.00	891.92 (891.94)

97.2	91.1	90.9	90.9	90.9	90.6	92.0	91.5
3.3	9.4	9.6	9.6	9.6	9.9	8.5	9.0
33	22	11			11	60	80

97.3	91.2	91.1	91.1	90.9	90.5	90.6
3.2	9.3	9.4	9.4	9.6	10.0	9.9
33	22	11		9	21	55
42						

92.7	89.1	88.0
5.2	8.8	9.9
250	200	169

90.1	88.2	85.7
7.8	9.7	12.2
225	200	160

ML
PK

109

CURVE ST EASEMENT
(RICHARD'S MARKET)

STA	+	⊼	−	ELEV
		902.37		
0+00				
+50				
1+00				
1+50				
MH 143 1+88				
2+02				
2+18				
2+28				

ML
PK

110

2.8 899.57

4.2 898.17

4.4 897.97

5.3 897.07

5.9 896.47

7.0 895.37

4.8 897.57

895.47 897.27 896.37 893.77

6.9 5.1 6.0 8.6

10 25 4.7

STA	+	π	−	ELEV
		902.31		
2+83			LOW POINT	
T.P.	7.20	908.88	0.69	901.68
			4.50	904.38

ML
PK

℄ Rt 111

893.17	897.37	896.97	894.27
9.2	5.0	5.4	8.1
	12	23	38

BLOCK AT PROPANE TANK

MC
PK
DS
LPO

Nov 14, 84
Cloudy 35

112

ALINEMENT
CLARENCE ST @ FROST AVE
3+00 = 39+17.60

STA

3+00=

39+17.60

0+00

℄

3+00 = 39+17.60

ML
PK
DJ
LPD

Nov 14, 84

Cloudy 35° 114

TOPOGRAPHY

CLARKWOOD ST @ FROST AVE

LT ℄ RT

+50 +50 RD 15 +50 RD 15

+13 END S.W. 66-71

2+00

+85 PP 25 +90 SECOND BLDG 71-106

+87 ℄ S.W. ← 66

+69 BEG BIT P.L. 15 →

+64 F. POLE 52 +66 ℄ 6" SW 54

+50

+62 NW COR F. STA 60 +62 END P.L. 30-60

+15 PROPANE TANK 47-59

+21 BEG P.L. BIT ← 15

~~+21 POST~~ 67 +21 POST 62 +21 POST 54 + 21 POST 45

PROPANE (4x4)

+15 SCALE 47 +15 POST 43 +09 NO SIDE BLOCK 34-46 RD

1+00

+99 SO. EDGE STORAGE BLOCK AREA 34-46

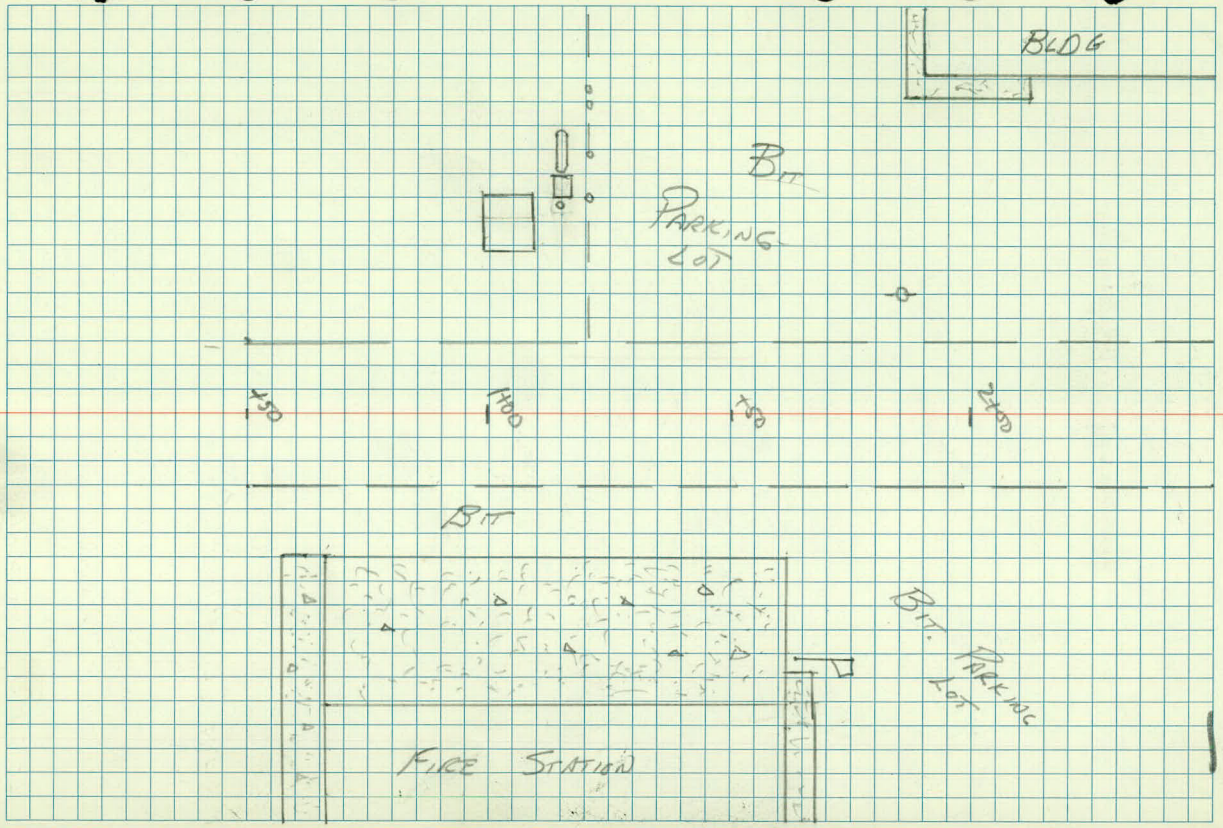
+80 SW COR FIRE STA. 61

+66 BEG CONC P.L. 30-61

+62 ℄ 9' CONC ENT 30 →

+50 +50 RD 15 +50 RD 15

0+00

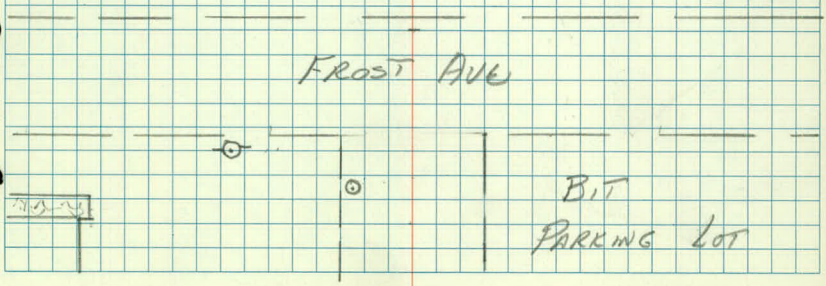

BLDG
BIT
PARKING LOT
+50
+100
+150
+200
BIT
BIT.
PARKING LOT
FIRE STATION

115

LT	℄	RT
3+00		
+78 EL	+78 END P.L 15-69	
+68 WSD 13	+75 PP 37	+78 EL 30
	+65 ℄ S.W 5' 67	+78 END BIT P.L 15 →
2+50	+62 NE COR BLDG 69	

Lt ℄ Rt

116



MC
PK
DS
LPP

NOV 14, 84

Cloudy 35° 117

X-SECTIONS

CLARENCE ST @ FROST

3+00 = 39+17.60

	+	⊼	−	Elev
BM	4.66	908.83		904.17
0+62			& Conc Ent Rt	
1+08			Conc Parking Lot Rt	
1+74	Bit Parking Lot Lt		Bit Parking Lot Rt	
2+00	Bit Parking Lot Lt		Bit Parking Lot Rt	
2+78		South Gutter Line Frost		
T.P.	0.69	902.37	7.15	901.68

01.9	02.6	03.9	904.2	04.1	04.53	05.49
6.9	6.12	4.9	4.6	4.7	4.30	3.34
10	3.8	14		16	31	64
					Conc	Conc

01.0	03.1	03.9	04.0	04.34	05.68
7.8	5.7	4.9	4.8	4.49	3.15
66	14		18	31	60
				Conc	Conc

01.5	02.7	03.4	03.4	03.8
7.3	6.1	5.4	5.4	5.0
80	18		15	44

02.58	02.1	02.4	03.2	03.1	03.5
6.25	6.7	6.4	5.6	5.7	5.3
66	66	16		16	80
top					
3.6W					

01.2	01.8	01.9	02.2	02.8
7.6	7.0	6.9	6.6	6.0
72	24		15	85

ML
PK
DS
LPO

Nov 14, 84
Cloudy 35°

119

IDE ST @ FROST AVE

ALINEMENT

2+00 = 42+46.94

STA	POINT
2+00=	
42+46.94	
0+00	

MC
PK
DS
LPD

Nov 14, 84

Cloudy 35°

121

Topography
Ide St @ Frost Ave

2+00 = 42+46.94

2+00

+78 ER 35

+75 END SW 93-98

+63 COR P-L (Brk) 93-33

+68 WSO 12

+71 ER 27

+63 BR 17

+58 4" MAP 30

+38 POST 36

+50

+69 BR 15

+33 POST 35

+33 POST 30

+26 COR BLDG 106

+15 E BIT ENT 30

+32 E SW 98

+10 WSO 17

+39 28" ELM 34

+00 POST 34

+00 POST 30

+00 RO 20

1+00

+94 POST 34

+00 RO 19

+74 6" MAP 29

+63 BEG P.L. 33-93

+54 BEG SW 93-108

+52 Iron Rk 61-106

+60 E 5' SW 24

+52 CONC WALL 61-106

+51 END CONC ENT 106-28

+63 DRAIN 84

+38 5.0 93

+78 24" ELM 51

+27 END FE 110

+50

+27 BEG BLDG 106

+27 BEG CONC ENT 106-28

+04 BEG FE 110

+08 BEG PL 106-16

+47 4" PINE 51

+37 NW COR HOR 62

+04 RET POST 83

+03 RET WALL CONC 106

+34 20" MAP 33

+04 ELEC. POST 65

+04 ELEC POST 48

+04 SW NO 1900 62

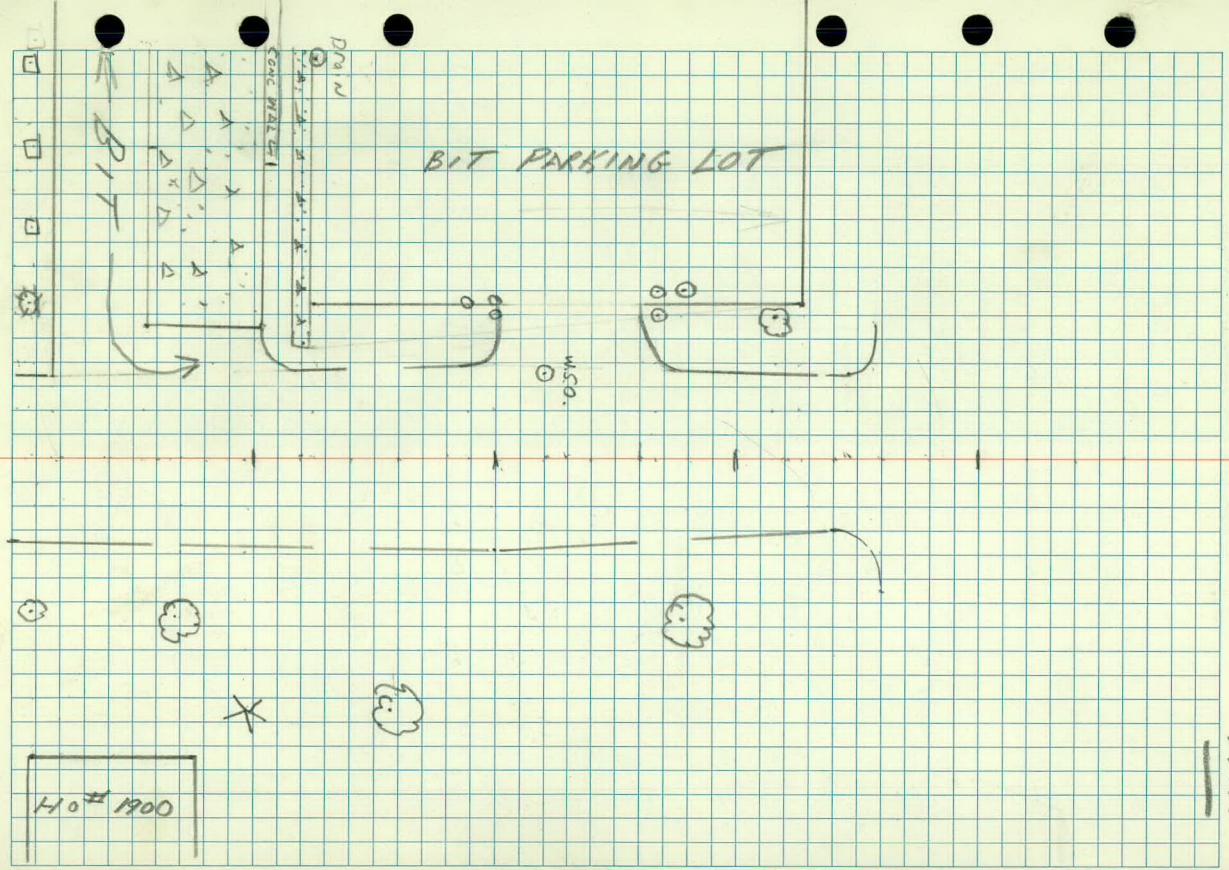
0+00

+02 CURB 32

+00 RO

+00 RO 17

+04 4" MAP 32



122

MC
PK
DS
LPD

NOV 14, 87
CLOUDY

123

X-SECTIONS
10th ST @ FROST AVE

STA	+	Π	−	Elev
BM	4.41	911.85		907.44
0+00				
0+38	℄ CONC ENT LT			
			10.86	
0+63	BIT PARKING LOT LT			
0+63			6.33	
1+15				
1+63	BIT			

Top N40 1D6 @ FROST

08.3	07.7	07.4	07.3	06.9	07.3	08.2	08.2
3.6	4.2	4.5	4.6	5.0	4.6	3.7	3.7
80	17	15		17	20	52	22
							40

01.8	01.0	06.5	07.0	06.7	07.0	06.5	06.1	08.1	08.1
10.69	10.88	5.40	4.9	5.2	4.9	5.4	5.8	3.8	3.8
106	99	28	15	13		19	22	54	70

Top 5.0 LT 93

05.9	05.8	06.6	06.4	06.7	06.3	07.0	07.50
6.0	6.1	5.3	5.5	5.2	5.6	4.9	4.4
93	33	16	14		19	23	60
	B.T						

DRAIN Pipe

05.6	05.6	05.3	05.9	05.6	06.5	08.6
6.3	6.3	6.6	6.0	6.3	5.4	3.3
93	35	24		18	24	66

04.9	04.5	04.9	04.5	05.0	05.5	05.3	05.9	09.0
7.0	7.4	7.0	7.4	6.9	6.4	6.6	6.0	2.9
93	67	36	24	16		17	20	67
		BT						

STA	+	Π	—	ELEV
		911.85		
		SOUTH EDGE	FROST	
1+79			4.42	907.43

LT ℄ RT 125

04.0	04.6	05.3	05.6	06.3
7.9	7.3	6.6	6.3	5.6
73	28		26	78

Top HAD 104 ← FROST

STRUCTURAL DATA 62-628-04
TYPE FROST AVE

STORM		ELECTRIC		WATER		126
SANITARY	✓	TELEPHONE		OTHER		

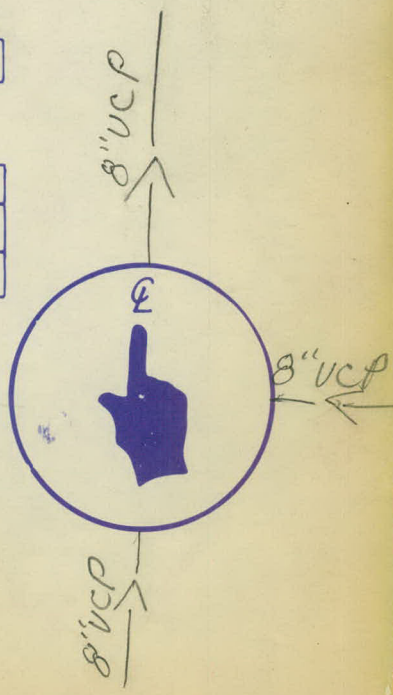
STATION	LEFT	RIGHT	SIZE	
9+67		15'	9	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.0 Concentric Cone
BRICK		1.5 Section
SECTIONAL	✓	2.5 Sec.
		2.5 Sec.

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				None
BRICK				
CONC. RINGS				

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	11.8	X
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	902.18
FINAL ELEVATION	903.44
DIFFERENCES	+1.26

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

127

TYPE

STORM		ELECTRIC		WATER		
SANITARY	✓	TELEPHONE		OTHER		

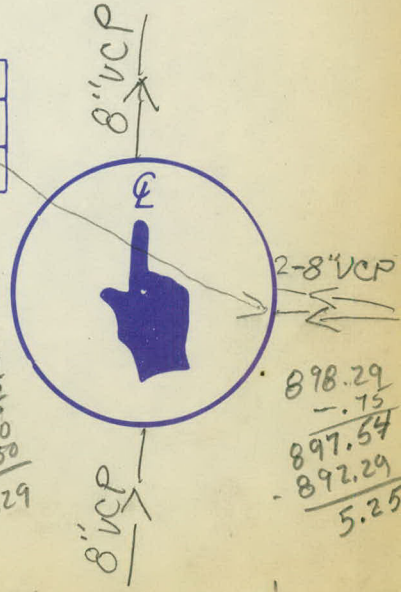
STATION	LEFT	RIGHT	SIZE	
12+87		15'	9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.0' Con. Cone
BRICK		1.5' Section
SECTIONAL	✓	4.0' "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	3	.75	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	11.8	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	6.0	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN	
ELEVATION - TOP	899.29
FINAL ELEVATION	898.29
DIFFERENCES	1.00
ADJUST	
RECONSTRUCT ✓	5.3

899.29
-.75
-.25
-4.00
-1.50
892.29

898.29
-.75
897.54
-892.29
5.25

OK BJ.
7-10-84

STRUCTURAL DATA

TYPE

128

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

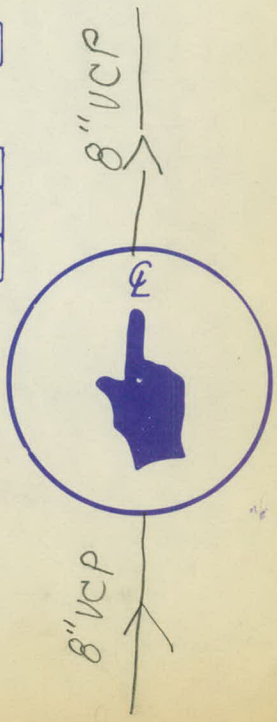
STATION	LEFT	RIGHT	SIZE	
16+07		14'	9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.0 Con. Cone
BRICK		3.0 Sect
SECTIONAL	✓	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	3	.75	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	8.6	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	895.39
FINAL ELEVATION	895.41
DIFFERENCES	X 0.02

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

TYPE

124

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

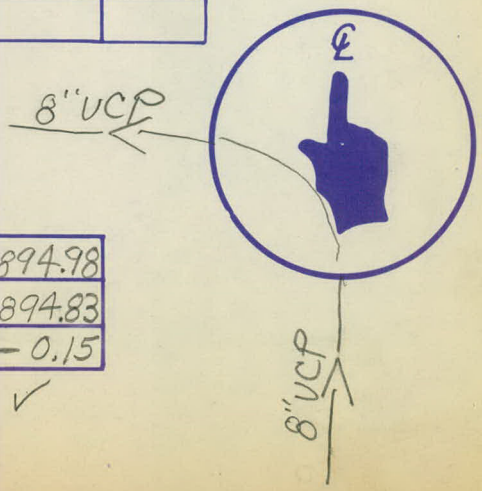
STATION	LEFT	RIGHT	SIZE	
19+27		15'	9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.0' Con. Cone
BRICK		3.0' Sect.
SECTIONAL	✓	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	5	1.25	

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	9.5	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	894.98
FINAL ELEVATION	894.83
DIFFERENCES	– 0.15

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

130

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

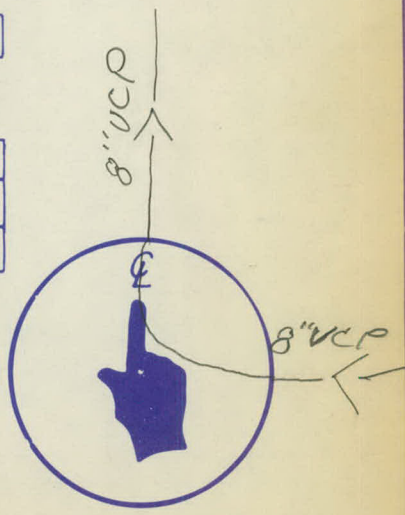
STATION	LEFT	RIGHT	SIZE	
-19+27	18'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.0 Con. Cone
BRICK		5.0 Sect.
SECTIONAL	✓	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	3	.75	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	10.3	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN	
ELEVATION - TOP	895.18
FINAL ELEVATION	894.91
DIFFERENCES	-0.27

✓

ADJUST

RECONSTRUCT

STRUCTURAL DATA

131

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

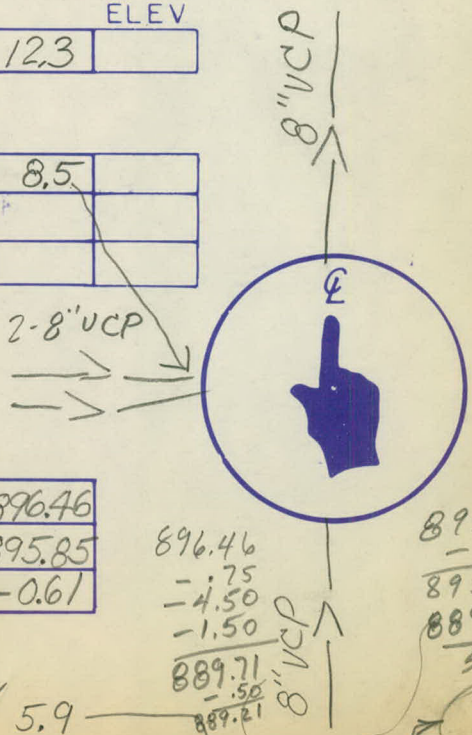
STATION	LEFT	RIGHT	SIZE
22+57	18'		9" INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5 Con. Cone
BRICK		1.5 Sec.
SECTIONAL	✓	5.0 "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	2	.5	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	12.3	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	8.5	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION - TOP	896.46
FINAL ELEVATION	895.85
DIFFERENCES	-0.61
ADJUST	
RECONSTRUCT ✓	5.9

STRUCTURAL DATA

132

TYPE

STORM		ELECTRIC		WATER			
SANITARY	✓	TELEPHONE		OTHER			

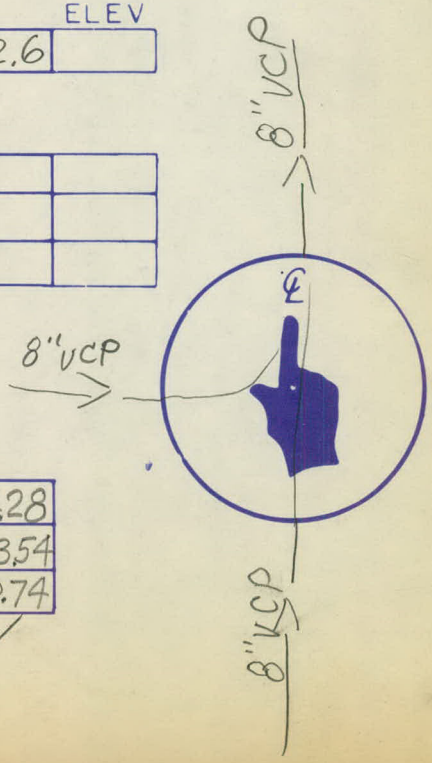
STATION	LEFT	RIGHT	SIZE	
25+87	18'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5 Con, Cone
BRICK		3.0 section
SECTIONAL	✓	3.0 "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	6	1.5	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	12.6	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN	
ELEVATION - TOP	894.28
FINAL ELEVATION	893.54
DIFFERENCES	-0.74
ADJUST	✓
RECONSTRUCT	

STRUCTURAL DATA

133

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

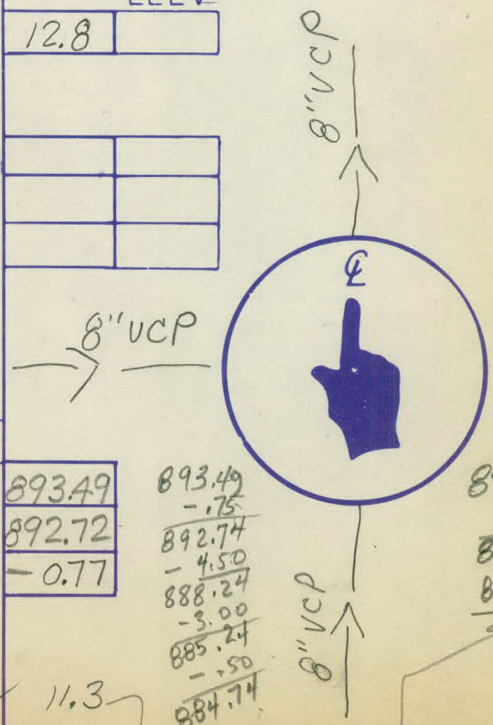
STATION	LEFT	RIGHT	SIZE	
29+16	18'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5 Con. Cone
BRICK		3.0 sect.
SECTIONAL	✓	4.0 "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	2	.5	

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	12.8	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	893.49
FINAL ELEVATION	892.72
DIFFERENCES	– 0.77
ADJUST	
RECONSTRUCT ✓	11.3

893.49
– .75
892.74
– 4.50
888.24
– 3.00
885.24
– .50
884.74

892.72
– .75
891.97
884.74
7.23

STRUCTURAL DATA

134

TYPE

STORM	✓	ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	C 8

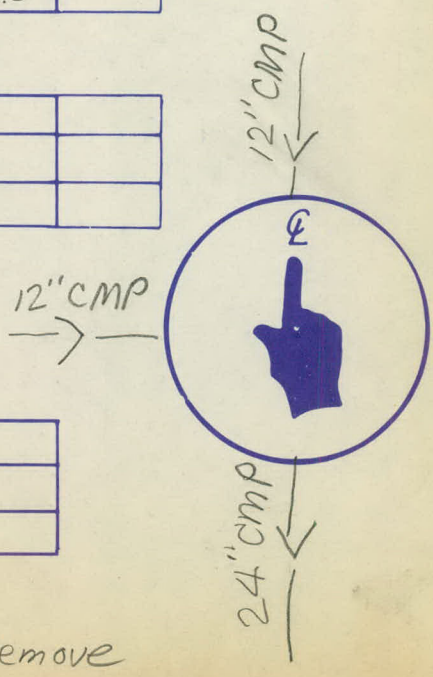
STATION	LEFT	RIGHT	SIZE	
32+19		27'	9"	INCH CASTING

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	2.0	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 Remove

STRUCTURAL DATA

135

TYPE

STORM	✓	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER	CB		

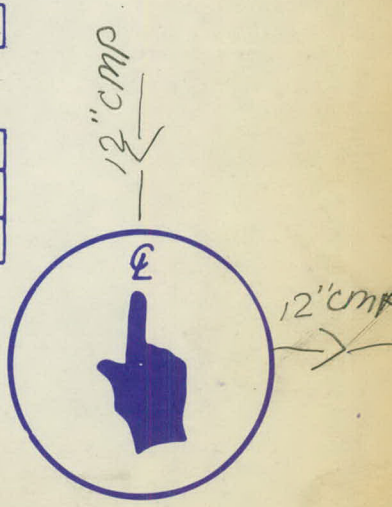
STATION	LEFT	RIGHT	SIZE	Grate INCH CASTING
32+20	31'			

TYPE OF CONST.		COMMENTS
BLOCK	✓	
BRICK		
SECTIONAL		

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

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	1.0'	
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

Remove.

STRUCTURAL DATA

136

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

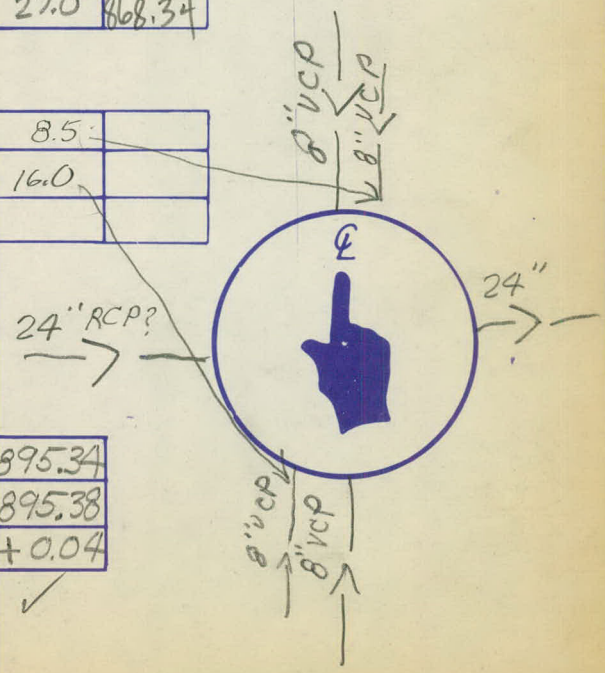
STATION	LEFT	RIGHT	SIZE	
32+48	18'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5' Con Cone ✓
BRICK		5.0 Sect
SECTIONAL	✓	5.0 "
		5.0 "
		4.5 "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	6	1.5	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	27.0	868.34
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	8.5	
ETC.	16.0	
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION - TOP	895.34
FINAL ELEVATION	895.38
DIFFERENCES	+0.04

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

137

TYPE

STORM	✓	ELECTRIC		WATER	
SANITARY		TELEPHONE		OTHER	CB

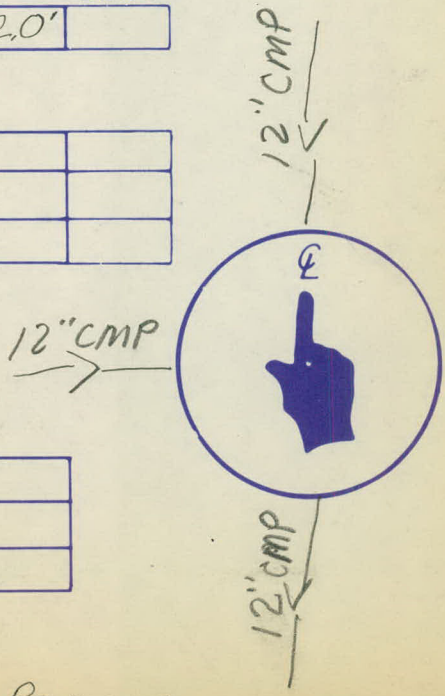
STATION	LEFT	RIGHT	SIZE	
32+69	32'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	✓	
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				None
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	2.0'	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

Remove

STRUCTURAL DATA

138

TYPE

STORM	✓	ELECTRIC		WATER			
SANITARY		TELEPHONE		OTHER	C.B.		

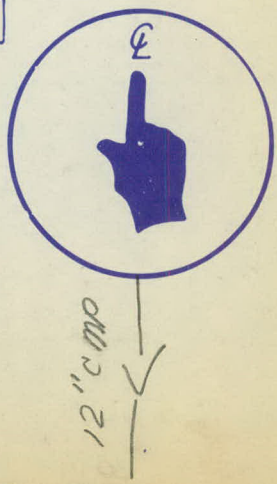
STATION	LEFT	RIGHT	SIZE	
32+78		30'		Grate INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK	✓	
BRICK		
SECTIONAL		

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				None
BRICK				
CONC. RINGS				

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	1.5'	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	Remove

STRUCTURAL DATA

139

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

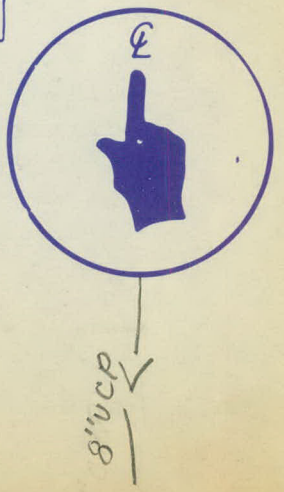
STATION	LEFT	RIGHT	SIZE	
35+23	17'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5 Con. Cone
BRICK		3.5 Sect.
SECTIONAL	✓	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				No Pipe Running
CONC. RINGS	✓	3	.75	Into MH

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	9.5	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION - TOP	898.63
FINAL ELEVATION	898.69
DIFFERENCES	+0.06

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

TYPE

140

STORM		ELECTRIC		WATER	✓
SANITARY		TELEPHONE		OTHER	

STATION	LEFT	RIGHT	SIZE	
36+20	39'		7"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		Mex. Hat
BRICK		6' Sect.
SECTIONAL	✓	2' "
		1.5' "

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

DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	10.6	ELEV
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW

24" CIP

24" CIP

DESIGN	
ELEVATION – TOP	899.91
FINAL ELEVATION	900.39
DIFFERENCES	+0.48

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

141

TYPE

STORM		ELECTRIC		WATER			
SANITARY	✓	TELEPHONE		OTHER			

STATION	LEFT	RIGHT	SIZE	
37+68	18'		9"	INCH CASTING

TYPE OF CONST.	
BLOCK	
BRICK	
SECTIONAL	✓

COMMENTS

4.5 Con. Cone
3.0 Sect

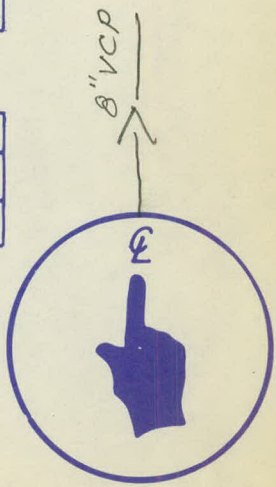
ADJUSTING RINGS	TYPE	NO.	DEPTH
BLOCK			
BRICK			
CONC. RINGS	✓	4	1.0

COMMENTS

Beg. San. Sewer to the east

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	9.1	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION – TOP	900.95
FINAL ELEVATION	900.43
DIFFERENCES	– 0.52

✓

ADJUST

RECONSTRUCT

STRUCTURAL DATA

142

TYPE

STORM		ELECTRIC		WATER			
SANITARY	✓	TELEPHONE		OTHER			

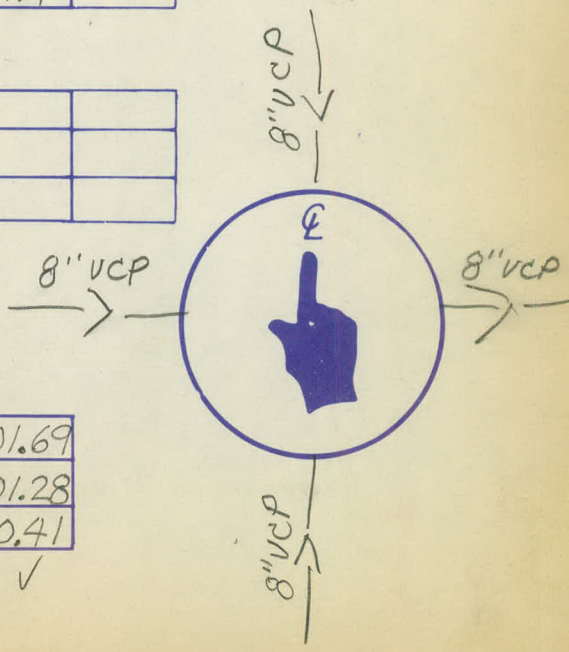
STATION	LEFT	RIGHT	SIZE	
39+18	17'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5 Con. Cone
BRICK		3.0 Section
SECTIONAL	✓	3.0 "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	2	1.75	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	11.9	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION - TOP	901.69
FINAL ELEVATION	901.28
DIFFERENCES	-0.41

ADJUST ✓

RECONSTRUCT

STRUCTURAL DATA

143

TYPE

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	

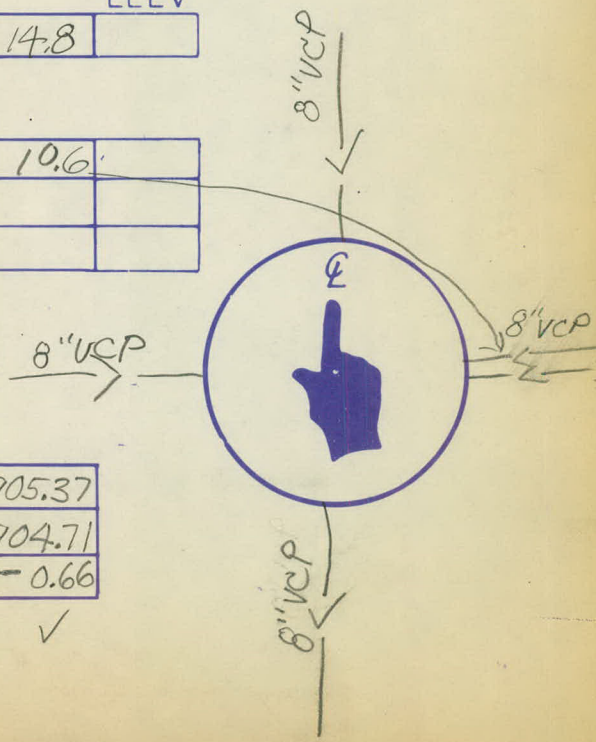
STATION	LEFT	RIGHT	SIZE	
42+47	17'		9"	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		4.5 con. cone
BRICK		1.5 sect.
SECTIONAL	✓	4.0 sect.
		4.0 "

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	4	1.0	

		ELEV
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	14.8	
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	10.6'	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW



DESIGN

ELEVATION - TOP	905.37
FINAL ELEVATION	904.71
DIFFERENCES	-0.66

ADJUST ✓

RECONSTRUCT

#1

STRUCTURAL DATA

62-628-04
~~62-628-03~~

TYPE

STORM		ELECTRIC		WATER		144	
SANITARY	✓	TELEPHONE		OTHER			

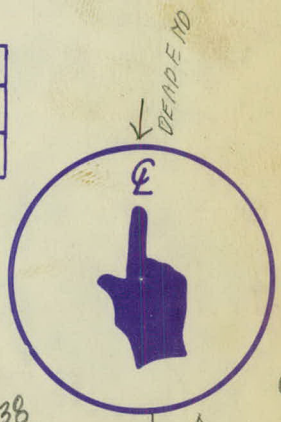
STATION	LEFT	RIGHT	SIZE	
44+21	18'		9'	INCH CASTING

TYPE OF CONST.		COMMENTS
BLOCK		3.0' SECTION
BRICK		
SECTIONAL	✓	4.3 CONCENTIC CONE

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	1	1	0.2	

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	8.96	96
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING	8.96	
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW — 1.0' 8" VIT



DESIGN

ELEVATION – TOP	907.38
FINAL ELEVATION	907.08
DIFFERENCES	0.30
ADJUST	
RECONSTRUCT	7.9

907.38
-.75
906.63
-0.2
906.43
-4.30
902.13

907.08
-.75
907.33
902.13
5.20

STRUCTURAL DATA

#2 62-62804
145

TYPE

STORM		ELECTRIC		WATER		
SANITARY	✓	TELEPHONE		OTHER		

STATION	LEFT	RIGHT	SIZE	
44+75	18		9	INCH CASTING

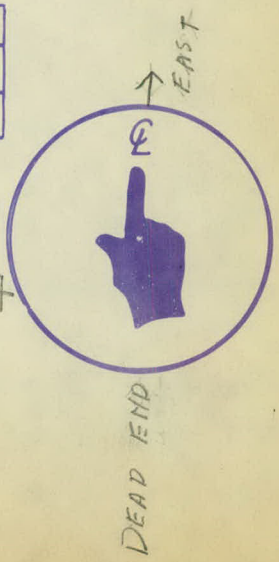
TYPE OF CONST.		COMMENTS
BLOCK		
BRICK		4.6 CONCENTRIC CONE
SECTIONAL	✓	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS	✓	5	1.2	

		ELEV.
DEPTH FROM BOTTOM OF M.H TO TOP OF CASTING	6.7	901.34
DISTANCE FROM HIGHEST FLOW LINE TO TOP OF CASTING		
ETC.		
INV.		

SIZES OF ALL PIPES AND DIRECTION OF FLOW: 8" VITRIFIED

62-628-04



DESIGN	
ELEVATION – TOP	908.04
FINAL ELEVATION	907.81
DIFFERENCES	–.23

ADJUST

RECONSTRUCT

STRUCTURAL DATA

TYPE

146

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

BEICT

RAMSEY COUNTY

DESIGN DEPARTMENT

REQUEST FOR SURVEY

147

DATE 5-21-84

REQUESTED BY A. N. ONYMOUS

TYPE OF SURVEY ADDITIONS

LOCATION FROST AVE SAP 62-628-04--
ATLANTIC ST. POND & ADDTL TOPO?
PROPERLY LOCATE PIPE AT STA
36 ± RT SIDE (INLET PIPE)

SPECIAL EMPHASIS ON TREES ON ATTACHED SHEET?

IDR ST. TREE INFO
42+72 Lt 89 & 119 Cott
42+91 Lt 89 Cott

DESIRED COMPLETION DATE

ADDITIONAL REMARKS

pK
SB

rc 104-73
8-12-82