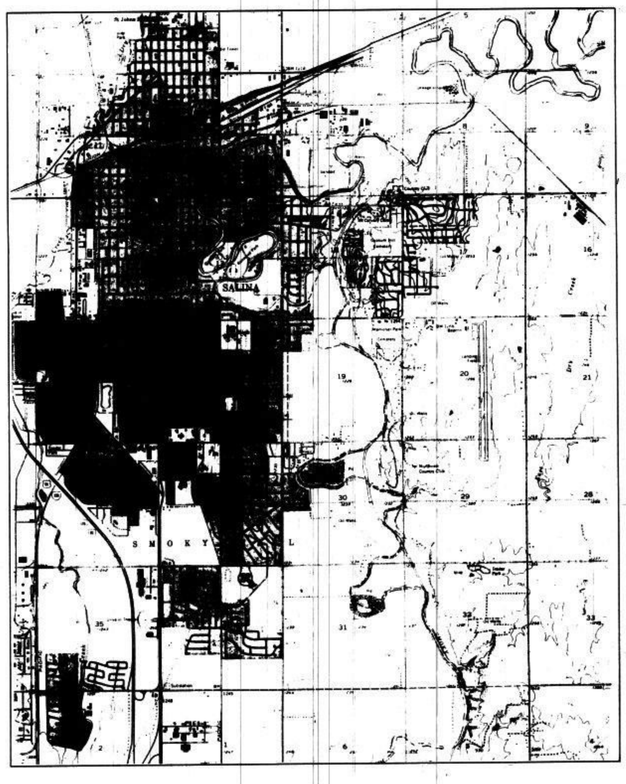
EAST DRY CREEK INTERCEPTOR SEWER

CITY OF SALINA

SALINA, KANSAS

CITY PROJECT NO. 91-848



LEGEND

EXISTING WATER LINE	W
EXISTING GROUND LINE	
EXISTING WATER VALVE	
EXISTING WATER METER	WM
EXISTING FIRE HYDRANT	FH
EXISTING GAS LINE	G
EXISTING GAS METER	GM
EXIST. BURIED TELEPHONE CABLE	UGT
EXISTING TELEPHONE RISER	TR
EXIST. BURIED TELEVISION CABLE	TV
EXISTING UNDERGROUND ELECTRIC	UGE
EXISTING SANITARY SEWER	SS
EXISTING MANHOLE	MH
EXISTING DRAINAGE CULVERT	
EXISTING STORM SEWER	SD
EXISTING STORM SEWER INLET	SD SD
PROPOSED MANHOLE	MH
PROPOSED SANITARY SEWER	
TREE REMOVAL	
BENCH MARK	
PROPERTY LINE	℄
SURVEY BASELINE	40
SEWER LINE BASELINE	42 41 40+00
RIGHT OF WAY	R/W
TEMPORARY EASEMENT	
PERMANENT EASEMENT	

INDEX OF SHEETS

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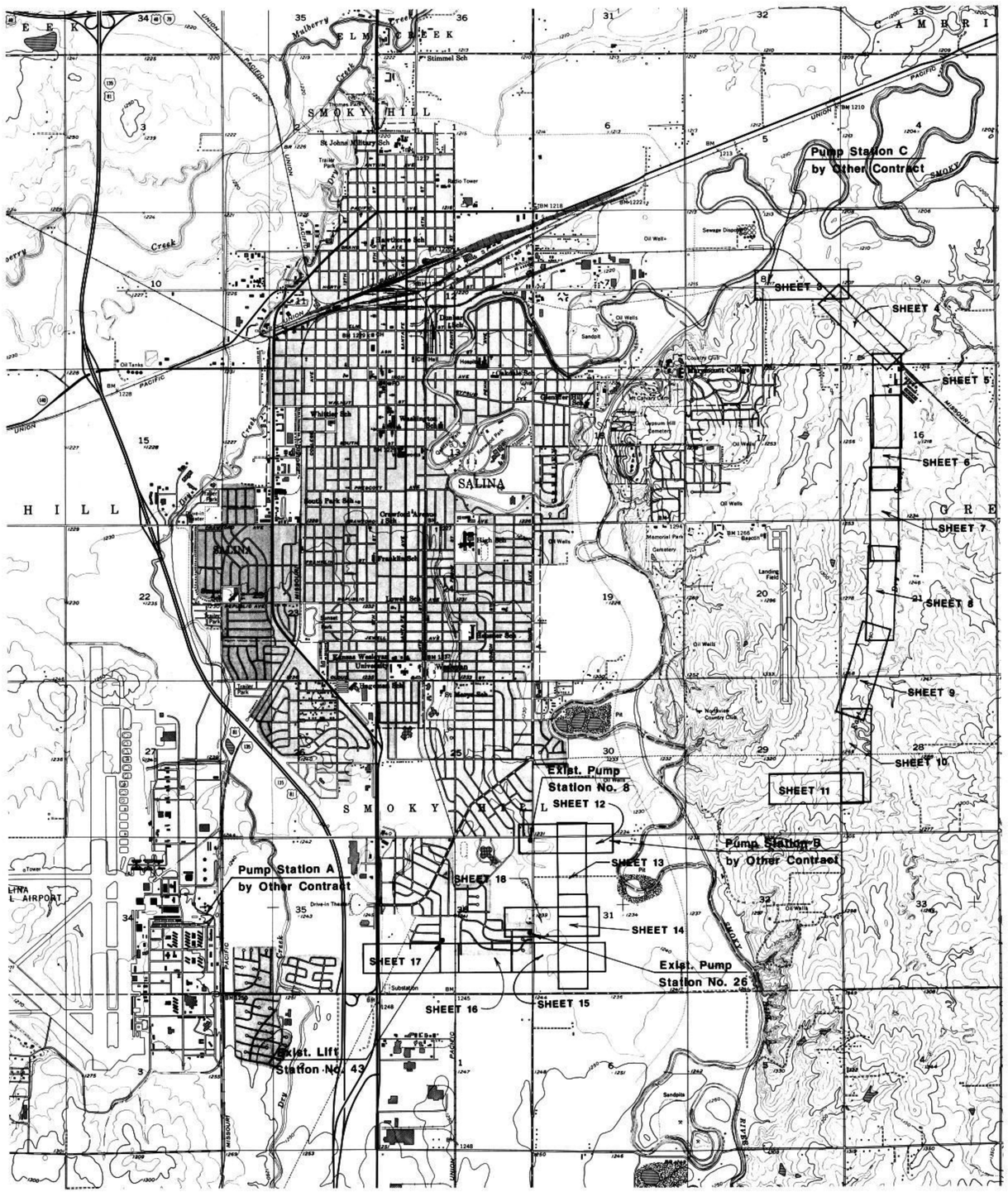


KEY MAP

EAST DRY CREEK INTERCEPTOR SEWER PROJECT

Project description:

The entire project consists of three separate construction projects. The projects include the following:

1. Gravity Sewers - North Section and South Section
2. New Pump Stations A, B and C
3. Force Mains serving new Pump Stations A, B and C

New Pump Station A is located at the existing wastewater treatment plant in the vicinity of the Salina Municipal Airport. Pump Station A will pump wastewater through a force main to MH No. 74. The gravity sewer between MH No. 74 and MH No. 51 is a part of this construction project (South Section). The south section also receives wastewater from existing Pump Station Nos. 8, 25 and 43. The abandonment of these three pump stations and the construction of the branch sewers between the wet wells at these pump stations and the interceptor sewer is also a part of this contract.

The gravity sewer from MH NO. 51 to Pump Station B will be constructed under a separate contract. Pump Station B will pump wastewater through a force main to MH No. 50. Wastewater will flow through the interceptor sewer from MH No. 50 to MH NO. 1 and is part of this construction contract (North Section). The gravity sewer between MH No. 1 and Pump Station C will be constructed as part of a separate contract.

Construction Sequence:

Pump Station B must be complete and ready for operation before existing Pump Station Nos. 8, 26 and 43 are abandoned and before any wastewater is discharged into any of the branch sewers or the South Section of the Interceptor Sewer.

Pump Station C must be in operation and accepted by the City of Salina before Pump Station B is placed in service and any wastewater is discharged into the North Section of the Interceptor Sewer. Start-up and initial operation of Pump Station C is anticipated to take approximately 30 days after completion.

When Pump Station C has been accepted by the City of Salina, all the remaining work which is part of this construction contract can be completed. That includes the following:

Direct wastewater into Branch Line A. Abandon Pump Station No. 8
Direct wastewater into Branch Line B. Abandon Pump Station No. 26.
Direct wastewater into Branch Line C. Abandon Pump Station No. 43.

The City of Salina will salvage part of the equipment and/or materials from the pump stations after wastewater is directed into the branch sewers. The pump stations will be abandoned in place as directed in the specifications when salvage operations are complete.

EAST DRY CREEK INTERCEPTOR SEWER
SALINA, KANSAS

GENERAL PLAN & NOTES

BUCHER, WILLIS & RATLIFF
ENGINEERS ▪ PLANNERS ▪ ARCHITECTS
SALINA HAYS KANSAS CITY

MADE DMB DATE 4-22-92 TRACED JLS DATE 4-22-92
CHECKED DMB DATE 5-8-92 SCALE As Noted

PLAN — SURVEYED — PLOTTED — GRADES CHECKED — R.W. NOTED — RT. OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

Sta. 53+97.0 Survey ℄ =
Sta. 54+07.4 Sewer Line
Construct 6' Dia. Type I
MH No. 8

PI 33 - Sta. 46+83.95 - Hub & Tack
1. WNW to Spike in power pole 99.53'
2. NW to "X" in conc. ditch filler 28.52'
3. NE to Spike in ℄ R.R. at ℄ North St. 73.98'
4. N to top ℄ Telephone Riser 31.49'

Donald L. & Ruth M. Dains

Bethany College

Sta. 48+02.6, 67.4' Rt. Survey ℄ =
Sta. 48+42.4 Sewer Line
Construct 7'min. Dia. Type I MH No. 6
See Detail Sheet 21

PI 34 - Sta. 28+38.81 - Hub & Tack
1. WNW to Spike in power pole 78.40'
2. WSW to Spike in power pole 85.66'
3. SW to lowest bolt on E. side of NE leg on Trans. Tower 53.65'
4. SW to lowest hole on E. side of SE leg on Trans. Tower 69.40'

Jerry E. Cusick, Jr.

PI 35 - Sta. 27+41.94 - Hub & Tack
1. 66W to Nail & Shiner in power pole 42.67'
2. W to Nail & Shiner in sign post 60.15'
3. NNW to Spike in power pole 61.74'

Sta. 40+38.8 Survey ℄ =
Sta. 40+38.8 Sewer Line
Construct 6' Dia. Type I
MH No. 5

Sta. 34+38.8 Survey ℄ =
Sta. 34+38.8 Sewer Line
Construct 6' Dia. Type I MH No. 3
See Detail Sheet 22

Sta. 28+38.8 Survey ℄ =
Sta. 28+38.8 Sewer Line
Construct 7'min. Dia. Type II MH No. 2
See Detail Sheet 21

Remove & Replace 82 L.F. of Aggregate Type Surfacing. See Detail Sheet 21

Permanently Plug Exist. 21" VCP Sewer to West after New Pump Station "C" has been accepted by Owner.

15' Temporary Const. Easement

Permanent Utility Easement (Width Varies)

Donald L. & Ruth M. Dains

HOLMES ROAD

EASTBOROUGH ROAD

60' R/W

PI 33

PI 33A

PI 34

PI 35

PI 37A

30' Permanent Utility Easement

15' Temporary Const. Easement

NORTH ST.

UNION PACIFIC RAILROAD

TBM #26

TBM #27

91° 19' 45"

108-16

108-17

108-1

DH-3

Sta. 49+77.0 Survey ℄ =
Sta. 49+87.4 Sewer Line
Construct 7'min. Dia. Type I
MH No. 7

Jack & Bore 92.8 L.F. of 48" Steel Encasement Pipe
See Detail Sheet 21

Sta. 46+38.8 Survey ℄ =
Sta. 46+38.8 Sewer Line
Construct 6' Dia. Type I MH No. 5

Temporary Const. Easement (Width Varies)

Remove & Replace 80 L.F. Aggregate Type Surfacing

Sta. 27+64.4, 20' Lt. Sewer Line
Construct 6' Dia. Type I MH No. 18
over Exist. 21" VCP Sewer

Sta. 27+44.3, 20' Lt. Sewer Line
Construct 6' Dia. Type I
MH No. 1A

Sta. 27+44.3 Sewer Line
Construct 6' Dia. Type I
Drop MH No. 1
Begin Construction.

Jerry E. Cusick, Jr.

PI 36A - Sta. 49+97.43 - Hub & Tack
1. NW to Cut in Guy Anchor 21.29'
2. SW to Spike in Elm Tree 45.99'
3. S to Spike in Elm Tree 63.70'

PI 37A - Sta. 47+82.18 - Hub & Tack
1. SE to Spike in Elm Tree 22.55'
2. E to Spike in Elm Tree 21.01'
3. NE to Spike in Elm Tree 23.25'

TBM #26 R.R. Spike in power pole, 1st pole W. of R.R. tracks and R.O.W. of North St. Elev. 1210.37

TBM #27 R.R. Spike in power pole at S.E. Corner of Eastborough & North Sts. Elev. 1218.60

N

Scale: 1" = 100'

PROFILE — SURVEYED — PLOTTED — GRADES CHECKED — R.W. NOTED — STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

Profile Scale
Horiz. 1" = 100'
Vert. 1" = 5'

℄ Manhole No. 8
Sta. 54+07.4
Top of MH Elev. 1207.5
LE 1201.4

℄ Manhole No. 7
Sewer Line Sta. 49+87.4
Top of MH Elev. 1207.2
LE 1197.1

+13 ℄ URRR

℄ Manhole No. 6
Sewer Line Sta. 48+42.4
Top of MH Elev. 1207.8
LE 1197.8
1208

℄ Manhole No. 5
Sewer Line Sta. 46+38.8
Top of MH Elev. 1207.4
1207.35

℄ Manhole No. 4
Sta. 40+38.8
Top of MH Elev. 1207.5
℄ Driveway
1207.5

℄ Manhole No. 3
Sta. 34+38.8
Top of MH Elev. 1209.4
1209.4

Existing Ground Line

Exist. 21" San. Sewer

℄ Manhole No. 2
Sta. 28+38.8
Top of MH
Elev. 1212.2
1214.3

℄ North St. Aggregate
1213.7

℄ Manhole No. 1
Sta. 27+44.3
Top MH El. 1216.0

℄ Manhole No. 1A
Sta. 27+44.3
20' Lt.
Top MH El. 1216.0

℄ Manhole No. 18
Sta. 27+64.4
20' Lt.
Top MH El. 1216.0

Exist. 21" VCP
IE Elev. 1206.62

IE Elev. 1197.00

Inv. Elev. 1200.19
Inv. Elev. 1199.69
Inv. Elev. 1199.51
Inv. Elev. 1199.27
Inv. Elev. 1196.55
Inv. Elev. 1197.83
Inv. Elev. 1197.11
Inv. Elev. 1197.00
Inv. Elev. 1198.25
Inv. Elev. 1206.24
Inv. Elev. 1206.36
Inv. Elev. 1206.40

Jack & Bore 92.8 L.F. 48" Steel Encasement Pipe .625 Wall Thickness

420.0 L.F. @ .12%
413.0 L.F. 36"
Normal Compaction

1450 L.F. @ .12%
1370 L.F. 36"

203.6 L.F. @ .12%
196.6 L.F. 36"
Normal Compaction

600.0 L.F. @ .12%
594.0 L.F. 36"
Normal Compaction

95% Compaction

600.0 L.F. @ .12%
594.0 L.F. 36"
Normal Compaction

945 L.F. @ .12%
875 L.F. 36"

95% Compaction

20 L.F. @ .30%
14 L.F. 21"

20 L.F. @ .30%
14 L.F. 21"

1220 1215 1210 1205 1200 1195

55+00 4 3 2 1 50+00 9 8 7 6 45+00 4 3 2 1 40+00 9 8 7 6 35+00 4 3 2 1 30+00 9 8 7 1

SHEET 3 OF 25

PLAN — SURVEYED — PLOTTED — GRADES CHECKED — R. W. NOTED — STRUCTURE NOTATIONS CHKD — RT. OF WAY CHECKED — NOTE BOOK — NO. — BY — DATE

Sta. 83+90.2 Survey ℄
Sta. 83+90.2 Ah. Sewer Line
Sta. 83+90.4 Ah. Sewer Line
Construct 4' Dia. Type I
MH No. 13
See Detail Sheet 21

Sta. 77+87.8 Survey ℄
Sta. 78+08.0 Sewer Line
Construct 4' Dia. Type II
MH No. 12

Sta. 71+97.8 Survey ℄
Sta. 72+08.0 Sewer Line
Construct 5' Dia. Type II
MH No. 11

PI 34A- Sta. 67+21.73 - Hub & Tack
1. WSW. to Spike in corner post 32.04'
2. SW. to Spike in fence post 31.30'
3. NW. to Spike in 4" Elm Tree 37.59'

Sta. 60+97.6 Survey ℄
Sta. 60+08.0 Sewer Line
Construct 6' Dia. Type II
MH No. 10

Sta. 59+97.6 Survey ℄
Sta. 60+08.0 Sewer Line
Construct 6' Dia. Type III MH No. 9

PI 35A- Sta. 56+73.15 - Hub & Tack
1. SW. to Spike in Elm Tree 27.68'
2. W. to Spike in Elm Tree 30.96'
3. S. to Wire Fence Corner post 3.95'

Remove & Replace 30 LF of Aggregate Surfacing See Detail Sheet 21

HOLMES RD.

UNION PACIFIC RAILROAD

TBM #24 "X" in Conc. Box Culvert N.W. Corner of Headwall along R.R. Tracks approx. 250' N. of Country Club Rd. Elev. 1216.91

TBM #25 R.R. Spike in powerpole 1st pole N. of R.R. Tracks in W. R.O.W. of Holmes Rd. Elev. 1223.12

TBM #26

TBM #27

DH-1A

PI 34A

PI 35A

MH No. 8

Permanent Utility Easement (Width Varies)

60' Temporary Const. Easement

40' Temporary Const. Easement

20' Temporary Const. Easement

15' Temporary Const. Easement

Carl Ward Hilton & Mary Jane Katherine Hilton

Alvin A. Farris & Gloria J. Farris

Alvin A. Farris & Gloria J. Farris

David H. Clark & Mary L. Clark

Scale: 1"=100'

PROFILE — SURVEYED — PLOTTED — GRADES CHECKED — R. W. NOTED — STRUCTURE NOTATIONS CHKD — BY — DATE — NOTE BOOK — NO.

Profile Scale
Horiz.: 1"=100'
Vert.: 1"=5'

℄ Manhole No. 13
Sta. 83+90.2 Back
Sta. 83+61.4 Ahead
Top of MH Elev. 1212.5

℄ Manhole No. 12
Sta. 78+08.0
Top of MH Elev. 1217.0

℄ Manhole No. 11
Sta. 72+08.0
Top of MH
Elev. 1227.7

℄ Manhole No. 10
Sta. 66+08.0
Top of MH
Elev. 1233.7

℄ Manhole No. 9
Sta. 60+08.0
Top of MH Elev. 1210.5

℄ Holmes Rd.
+00

℄ Manhole No. 8
Sta. 54+07.8
Top of MH Elev. 1207.5

Existing Ground Line

Fiber Optic Telephone Line

Telephone Line

Water Line

Sta. 66+00
Drill Hole 1A

1216.4 — 12.5-12
1227.7 — 12.5-11
1233.7 — 12.5-10
1216.5 — 12.5-9
1207.5 — 12.4-8
1217.26 — 12.5-13

Inv. Elev. 1203.77
582.2 LF @ .12%
575.2 LF 36"
Normal Compaction

Inv. Elev. 1203.07
600.0 LF @ .12%
594.0 LF 36"

Inv. Elev. 1202.35
600.0 LF @ .12%
594.0 LF 36"

Inv. Elev. 1201.63
600.0 LF @ .12%
594.0 LF 36"
Normal Compaction

Inv. Elev. 1200.91
600.0 LF @ .12%
594.0 LF 36"

Inv. Elev. 1200.19
600.6 LF @ .12%
594.6 LF 36"
95% Compact
Normal Compaction

1235 1230 1225 1220 1215 1210 1205 1200

4 3 2 1 80+00 9 8 7 6 75+00 4 3 2 1 70+00 9 8 7 6 65+00 4 3 2 1 60+00 9 8 7 6 55+00 4

SHEET 4 OF 25

PI 25 - Sta 120+30.23 - Hub & Tack
1. NW to 1/2" Rebar in top of terrace 100.72'
2. W to 1/2" Rebar in top of terrace 81.73'
3. SSE to 1/2" Rebar in top of terrace 78.48'

PI 26 - Sta 109+67.02 - Hub & Tack
1. WNW to Spike in 8" Hedge Tree 50.45'
2. N to Forgey and Allen Cap 14.67'
3. NE to Spike in 12" Hedge Tree 6.6.78
4. ESE to 1/2" Rebar in S. edge of waterway 62.79'

PI 27 - Sta 102+72.10 - Hub & Tack
1. WNW to Spike in 13" Elm Tree 86.10'
2. ENE to Spike in 20" Hedge Tree 38.52'
3. SSE to 1/2" Rebar in S. edge of waterway 39.05'

PI 28 - Sta 97+08.43 Bk = Sta 94+00.80 Ah - Hub & Tack
1. ENE to Spike in 16" Elm Tree. 31.25'
2. N. to Spike in 18" Elm Tree. 22.58'
3. ESE to Spike in 20" Elm Tree. 17.78'
4. SE to Spike in 18" Elm Tree. 34.54'

PI 29A - Sta. 95+55.93 - Hub & Tack
1. SE to Spike in Elm Tree. 10.16'
2. W to Spike in Elm Tree. 5.65'
3. N. to Spike in Elm Tree. 6.33'

PI 30A Sta 92+67.90 - Hub & Tack
1. NW to Spike in Elm Tree. 80.95'
2. SE to Spike in Elm Tree. 71.18'
3. E to Center of Sewer MH Lid. 15.22'

PI 31A - Sta 89+11.87 - Hub & Tack
1. NW to Center of W/meter Lid. 96.25'
2. N. to Cut in metal fence post 45.50'
3. NE to Spike in power pole. 50.19'

PI 32A - Sta 85+88.84 - Hub & Tack
1. N to Spike in top fence post 15.40'
2. NW to Spike in top fence post 15.35'
3. NE to SW Cor. RR Sig. Box Base 35.75'

PI 33A - Sta. 82+45.69 - Hub & Tack
1. SW to Spike in top fence post 33.91'
2. W to Spike in top fence post 31.60'
3. NW to Spike in top fence post 44.70'

Willowdale Farms
Delmas A. & Ann R. Jackson
James N. & Marilyn B. Russell
Joan S. Livingston

Sta 103+21.4 Ah on Bk Tangent 12.4' Rt. Survey ℄ = Sta 105+33.4 Sewer Line. Construct 7'min. Dia. Type IV. MH No. 19

Rose D. & Lewis L. Breer

Exline Inc.

Sta 97+85.4 17.13' Rt. Survey ℄ = Sta 99+97.3 Sewer Line. Construct 6' Dia. Type IV. MH No. 18

Sta 108+63.1 49.2' Rt. Survey ℄ = Sta. 111+42.0, Bk. Sewer Line = Sta. 111+27.0, Ah. Sewer Line. Construct 7'min. Dia. Type I. MH No. 20. See Detail Sheet 21.

Sta. 90+[illegible] Survey ℄ = Sta 91+54.2 Sewer Line. Construct 7'min. Dia. Type IV. MH No. 17

Sta. 80+[illegible] Survey ℄ = Sta. 83+76.3 Sewer Line. Construct 7'min. Dia. Type I. MH No. 14. See Detail Sheet 21.

Sta. 95+73.2 Ahead Bk. Tangent. Survey ℄ = Sta. 97+20.8 Sewer Line. Construct 7'min. Dia. Type III. MH No. 17. See Detail Sheet 19.

Dr. Chester L. Beams & Joan Tod Beams

Sta. 83+11.9 Survey ℄ = Sta 87+99.0 Sewer Line. Construct 7'min. Dia. Type I. Drop MH No. 15. See Detail Sheet 21.

Bore 85 LF See Detail Sheet 21

Remove & Replace 20 LF Bituminous Type Surfacing See Detail Sheet

Carl Ward, Hilton & Mary Jane Katherine Hilton

TBM #23 Forgey & Allen Cap 15" N. of PI 26. Elev. 1219.13

TBM #24 "X" in conc. box culvert N.W. corner of headwall carrying R.R. tracks approx. 250' N. of Country Club Rd. near Scoular Grain. Elev. 1210.91

TBM #25

TBM #26

TBM #27

TBM #28

Temp. Const. Easement

Jack & Bore 100.5 LF of 48" Steel Encasement Pipe See Detail Sheet 21.

Profile Scale: Horiz.: 1"=100' Vert.: 1"=5'

℄ Manhole No. 20 Sta 111+42.0 Bk = Sta 111+27.0 Ah Top MH Elev. 1220.4

℄ Manhole No. 18 Sta 100+[illegible] Top of MH Elev. 1234.0

℄ Manhole No. 19 Sta 99+[illegible] Top of MH Elev. 1232.8

℄ Manhole No. 17 Sta 94+60.3 Top of MH Elev. 1228.5

℄ Manhole No. 16 Sewer Line Sta 91+54.2 Top of MH Elev. 1223.0

℄ Country Club Rd.

℄ Drop Manhole No. 15 Sta 87+99.0 Top of MH Elev. 1219.8

℄ Drive (Bituminous)

℄ Manhole No. 14 Sewer Line Sta 85+75.5 Top of MH Elev. 1217.3

℄ Spur

℄ Main Track

℄ Manhole No. 13 Sta 83+90.2 Back = Sta 83+61.4 Ahead Top of MH Elev. 1212.5

Gas Line

2" Water Line

Telephone Lines

4" PVC Sewer Line

2" San. Sewer Force Main

Water Line

Sta. 100+00 Drill Hole 2

Inv. Elev. 1211.29

Inv. Elev. 1210.55

Inv. Elev. 1209.91

Inv. Elev. 1209.27

Inv. Elev. 1208.91

Inv. Elev. 1208.48 In

Inv. Elev. 1204.30 Out

Inv. Elev. 1204.03

Inv. Elev. 1203.77

Jack & Bore 100.5 LF 48" Steel Encasement Pipe .625 Wall Thickness

Bore 85 LF

608.6 LF @ .12% 600.6 LF 36"

538.1 LF @ .12% 529.1 LF 36"

537.0 LF @ .12% 530.0 LF 36"

306.1 LF @ .12% 298.1 LF 36"

355.2 LF @ .12% 347.2 LF 36"

223.7 LF @ .12% 215.7 LF 36"

218.9 LF @ .12% 210.9 LF 36"

Normal Compaction

Norm. Compact

95% Compaction

Normal Compaction

PLAN
SURVEYED ___ BY ___ DATE ___
PLOTTED ___
GRADES CHECKED ___
ALIGNMENT CHECKED ___
RT. OF WAY CHECKED ___
NOTE BOOK ___
NO. ___

PROFILE
SURVEYED ___
PLOTTED ___
GRADES CHECKED ___
B. M. NOTED ___
STRUCTURE NOTATIONS CHKD ___
NOTE BOOK ___
NO. ___

PP 5. dwg

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY
DATE
NOTE BOOK
NO

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BY
DATE
NOTE BOOK
NO
STRUCTURE NOTATIONS CHKD

PI 24 - Sta. 126+57.86 - Hub & Tack
1. W. to ½" Rebar in top of terrace 24.47'
2. N. to ½" Rebar in top of terrace 76.40'
3. S5W to ½" Rebar in top of terrace 88.30'

PI 25 - Sta. 120+30.23 - Hub & Tack
1. NW. to ½" Rebar in top of terrace 100.76'
2. W to ½" Rebar in top of terrace 81.73'
3. S5E to ½" Rebar in Top of terrace 75.48'

PI 26 - Sta. 109+67.02 - Hub & Tack
1. WNW to Spike in 8" Hedge Tree 60.48'
2. N. to Forney and Allen Cap 14.67'
3. NE to Spike in 12" Hedge Tree 66.78'
4. ESE to ½" Rebar in S. edge of waterway 62.98'

Sta. 138+41.7 Survey ℄ -
Sta. 133+37.5 Sewer Line
Construct 6' Dia. Type II
MH No. 24

Sta. 132+41.7 Survey ℄ -
Sta. 133+37.5 Sewer Line
Construct 6' Dia. Type IV
MH No. 24

Gerald E. & Marlene Eck

Sta. 126+30.6 Survey ℄ -
Sta. 121+87.5 Sewer Line
Construct 6' Dia. Type IV
MH No. 23

Willowdale Farms
Dennis A. & Ann R. Jackson
James N. & Marilyn B. Russell
Vaan G. Livingston

Sta. 120+30.2 Survey ℄ -
Sta. 121+87.5 Sewer Line
Construct 6' Dia. Type II
MH No. 22

Sta. 115+22.3 - 51.0' Rt. Survey ℄ -
Sta. 116+27.0 Sewer Line
Construct 6' Dia. Type II, MH No. 21
See Detail Sheet 21

PI 24

PI 25

PI 26

PI 27

TBM #20

TBM #21

TBM #22

TBM #23

MH No. 20

TBM #21 RR Spike in power pole at Bell Tract Farm approx. 1300' E. of house. Elev. 1232.28

TBM #22 ½" Rebar at NW. Corner of young tree approx. 230' SE. of PI 24. Elev. 1220.09

TBM #23 Forney & Allen Cap 15' N. of PI 26. Elev. 1219.13

Scale: 1"=100'

℄ Manhole No. 25
Sta. 139+37.5
Top MH Elev. 1223.8
Inv. Elev. 1214.66

℄ Manhole No. 24
Sta. 133+37.5
Top MH Elev. 1232.0
Inv. Elev. 1213.94

℄ Manhole No. 23
Sta. 127+37.5
Top MH Elev. 1225.0
Inv. Elev. 1213.22

℄ Manhole No. 22
Sta. 121+37.5
Top MH Elev. 1223.0
Inv. Elev. 1212.5

℄ Manhole No. 21
Sta. 116+27.0
Top MH Elev. 1222.0
Inv. Elev. 1211.89

℄ Manhole No. 20
Sta. 111+27.0
Top MH Elev. 1220.4
Inv. Elev. 1211.89

600.0 LF @ .12%
594.0 LF 36"

600.0 LF @ .12%
594.0 LF 36"

600.0 LF @ .12%
594.0 LF 36"

510.5 LF @ .12%
504.5 LF 36"

500.0 LF @ .12%
493.0 LF 36"

Normal Compaction

Profile Scale
Horiz.: 1"=100'
Vert.: 1"=5'

1240 1235 1230 1225 1220 1215 1210 1205

140+00 9 8 7 6 135+00 4 3 2 1 130+00 9 8 7 6 125+00 4 3 2 1 120+00 9 8 7 6 115+00 4 3 2 1

PLAN

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED	
NO.	RT. OF WAY CHECKED	

PI C3 - Sta. 151+97.60 - Hub & Tack
1. E. to Spike in power pole 24.82'
2. NE to ½" Rebar in S edge of Crawford St. 89.10
3. NW to ½" Rebar in S edge of Crawford St. 41.16'

J.E. & Pearl Weiss Trust
Planters State Bank & Trust, Trustee

Willowdale Farms

Gerald E. & Marlene Eck

Sta. 162+42.6 Survey ℄ =
Sta. 163+37.5 Sewer Line
Construct 5' Dia. Type I
MH No. 29

Sta. 156+42.2 Survey ℄ =
Sta. 157+37.5 Sewer Line
Construct 5' Dia. Type I MH No. 28
See Detail Sheet 22

Sta. 150+41.7 Survey ℄ =
Sta. 151+37.5 Sewer Line
Construct 6' Dia. Type III Drop
MH No. 27, See Detail Sheet 21

Sta. 144+41.7 Survey ℄ =
Sta. 145+37.5 Sewer Line
Construct 6' Dia. Type I MH No. 26
See Detail Sheet 21

Bore 78 Lin. Ft.
See Detail Sheet 21

30' Temp. Const. Easement

30' Temp. Const. Easement

CRAWFORD ST

TBM #19 R.R. Spike in 12" Hackberry Tree approx. 1100' South of Crawford St. & approx. 2000' East of Holmes Rd. Elev. 1235.56

TBM #20 R.R. Spike in 7th power pole S. of Holmes Rd. (in S. [illegible] of Crawford St. Elev. 1232.[illegible]

TBM #21 R.R. Spike in power pole at Bal Tree Farm approx. 1300' E. of house. Elev. 1232.28

TBM #18

TBM #19

TBM #20

TBM #21

MH No. 29

1165 1100 1120 2100 1140 1160 2000 1180 1200 1220 2400 1240 1260 1280 2500 1300 1320 1340 2600 1360 1380 1400 1420 2700 1440 1460 1480 2800 1500 1520 1540 2900 1560 1580 1600 1620 3000 1640 1660 1680 3100 1700 1720 1739

695

Scale: 1"=100'

PROFILE

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK	GRADES CHECKED	
NO.	R/W - NOTE	
	STRUCTURE NOTATIONS CHKD	

Profile Scale
Horiz.: 1"=100'
Vert.: 1"=5'

1240 1235 1230 1225 1220 1215 1210

℄ Manhole No. 29
Sta. 163+37.5
Top MH Elev. 1231.8

℄ Manhole No. 28
Sta. 157+37.5 Sewer Line
Top MH Elev. 1228.4

℄ Crawford St. (Bituminous)

℄ Manhole No. 27
Sta. 151+37.5 Sewer Line
Top MH Elev. 1224.6

℄ Manhole No. 26
Sta. 145+37.5
Top MH Elev. 1225.7

℄ Manhole No. 25
Sta. 139+37.5
Top MH Elev. 1223.8

12" Water Line

Telephone ℄ Line

Bore 78 LF

Inv. Elev. 1223.44

Inv. Elev. 1221.52

Inv. Elev. 1219.60 In
Inv. Elev. 1216.10 Out

Inv. Elev. 1215.38

Inv. Elev. 1214.66

600.0 LF @ .32%
595.0 LF 30"

600.0 LF @ .32%
594.5 LF 30"

600.0 LF @ .12%
594.0 LF 36"

600.0 LF @ .12%
594.0 LF 36"

Normal Compaction

Normal Compaction

165+00 4 3 2 1 160+00 9 8 7 6 155+00 4 3 2 1 150+00 9 8 7 6 145+00 4 3 2 1 140+00 9

PLAN

SURVEYED	BY	DATE
PLOTTED		
GRADES CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK		
NO.		

PROFILE

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK	GRADES CHECKED	
NO.	B. M.'s NOTED	
	STRUCTURE NOTATIONS CHKD	

PLAN

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED	
NO.	RT. OF WAY CHECKED	

HOLMES RD.

TBM #15

Robert S. & Edward L. Wuerth
& interest each

Sta. 200+98.8 Survey ℄ =
Sta. 221+48.2 Sewer Line
Construct 8" Dia. Type I
MH No. 39

Sta. 208+98.8 Survey ℄ =
Sta. 209+48.2 Sewer Line
Construct 8" Dia. Type I
MH No. 37

Sta. 214+98.8 Survey ℄ =
Sta. 215+48.2 Sewer Line
Construct 8" Dia. Type I
MH No. 38

Remove & Replace 600 Lin. Ft.
Aggregate Type Surfacing
See Detail Sheet 8

PI 21 – Sta. 208+98.79 – Hub & Tack
1. S. to ½" Rebar in E. edge of field ent. S. side of Cloud 44.79'
2. SW to ½" Rebar at edge of field N. side of Cloud 47.49'
3. SE to ½" Rebar at S. edge of road approx. 30' E. of 40.67'
Field ent.

PI 22 – Sta. 195+33.33 – Hub & Tack
1. SSW to Rebar in W. edge cropline 46.38'
2. W to ½" Rebar 10.24'

J. E. & Pearl Weiss Trust
Planters State Bank & Trust, Trustee

Sta. 203+23.0 Survey ℄ =
Sta. 203+77.5 Sewer Line
Construct 8" Dia. Type I MH No. 36
See Detail Sheet 8

Sta. 197+23.0 Survey ℄ =
Sta. 197+77.5 Sewer Line
Construct 8" Dia. Type I MH No. 35
See Detail Sheet 8

20' Temp. Const. Easement

MH No. 34

TBM #17

PI 22

TBM #15 R.R. Spike in power pole approx. 1300' S. of Cloud St. in E. R.O.W. of Holmes Rd.
Elev. 1278.82

TBM #16 R.R. Spike in power pole, 3rd power pole E. (approx. 330') of Holmes Rd. in S. R.O.W. of Cloud St.
Elev. 1253.30

TBM #17 ½" Rebar, S. Ref. Rebar of PI 22
Elev. 1243.16

Scale: 1" = 100'

PROFILE

SURVEYED	BY	DATE
PLOTTED		
NOTE BOOK	GRADES CHECKED	
NO.	ST. M. NOTED	
	STRUCTURES NOTATNS CHKD	

Profile Scale
Horiz.: 1" = 100'
Vert.: 1" = 5'

℄ Manhole No. 39
Sta. 221+48.2
Top MH Elev. 1257.7
Inv. Elev. 1242.02

℄ Manhole No. 38
Sta. 215+48.2
Top MH Elev. 1250.4
Inv. Elev. 1240.1

℄ Cloud St. (Agg. Surf.)

℄ Manhole No. 37
Sta. 209+48.2
Top MH Elev. 1250.8
Inv. Elev. 1238.18

Telephone Line
Water Lines

℄ Manhole No. 36
Sta. 203+77.5
Top MH Elev. 1246.5
Inv. Elev. 1236.36

℄ Manhole No. 35
Sta. 197+77.5
Top MH Elev. 1243.8
Inv. Elev. 1234.44

℄ Manhole No. 34
Sta. 191+77.5
Top MH Elev. 1243.5
Inv. Elev. 1232.52

600.0 LF @ .32%
595.0 LF 30"
Normal Compaction

600.0 LF @ .32%
594.5 LF 30"
95% Compaction

510.7 LF @ .32%
505.2 LF 30"
Normal Compaction

600.0 LF @ .32%
594.5 LF 30"

600.0 LF @ .32%
594.5 LF 30"

1265 1260 1255 1250 1245 1240 1235 1230

3 2 1 220+00 9 8 7 6 215+00 4 3 2 1 210+00 9 8 7 6 205+00 4 3 2 1 200+00 9 8 7 6 195+00 4 3 2 1

PLAN
SURVEYED
DRAWN
NOTE BOOK
NO
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
DRAWN
NOTE BOOK
NO
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

PI 20 – Sta. 246+85.75 – Hub & Tack
1.35' to 1/2" Rebar in S. edge of waterway 40'
2.55' W to 1/2" Rebar in S. edge of waterway 40'

TBM #13

Sta. 242+98.7 Survey ℄ =
Sta. 244+18.2 Sewer Line
Construct 5' Dia. Type I
MH No. 43

Sta. 230+98.7 Survey ℄ =
Sta. 230+18.2 Sewer Line
Construct 5' Dia. Type I
MH No. 42

Robert S. & Edward L. Wuerth
1/2 interest each

TBM #14

MH No. 39

50' Temp. Const. Easement

Top of Dike

Toe of Dike

Top of Dam

Toe of Dam

PI 20

30' Temp. Const. Easement

30' Perm. Utility Easement

Sta. 248+97.4 Ah on Bk
Tangent Survey ℄ =
Sta. 250+18.9 Sewer Line
Construct 5' Dia. Type I
MH No. 44

Floyd L. & Myrtle W. Hogg Trust

Sta. 234+98.2 Survey ℄ =
Sta. 234+18.2 Sewer Line
Construct 5' Dia. Type I MH No. 41

Detail MH Lin. Ft.
Conc. Encasement
See Detail Sheet 20

Sta. 226+98.2 Survey ℄ =
Sta. 226+98.2 Sewer Line
Construct 5' Dia. Type I MH No. 40
See Detail Sheet 22

TBM #13 R.R. Spike in power pole N. of Magnolia St. approx. 2000' on the E. side of Holmes Rd. 2nd power pole N. of waterway
Elev. 1282.65

TBM #14 R.R. spike in power pole approx. 300' S. of Holmes Rd. on W. side of Oil Storage Tank
Elev. 1279.94

Scale: 1" = 100'

Profile Scale
Horiz.: 1" = 100'
Vert.: 1" = 5'

℄ Manhole No. 44
Sta. 250+16.9
Top MH Elev. 1271.4

℄ Manhole No. 43
Sta. 244+18.2
Top MH Elev. 1266.3

℄ Manhole No. 42
Sta. 238+18.2
Top MH Elev. 1257.5

℄ Manhole No. 41
Sta. 232+98.2
Top MH Elev. 1258.8

℄ Manhole No. 40
Sta. 226+98.2
Top MH Elev. 1256.4

℄ Manhole No. 39
Sta. 221+48.2
Top MH Elev. 1257.7

Oil Pipeline

Inv. Elev. 1259.9
Inv. Elev. 1259.09

Inv. Elev. 1253.46

Inv. Elev. 1247.88
Inv. Elev. 1247.57

Inv. Elev. 1245.70

20 Lin. Ft. Conc. Encasement

Inv. Elev. 1243.78

Inv. Elev. 1242.02

598.7 LF @ .94%
593.7 LF 27"

600.0 LF @ .94%
595.0 LF 27"

520.0 LF @ .36%
515.0 LF 30"

600.0 LF @ .32%
595.0 LF 30"

550.0 LF @ .32%
545.0 LF 30"

Normal Compaction

Normal Compaction

Normal Compaction

1275 1270 1265 1260 1255 1250 1245 1240

1 250+00 9 8 7 6 245+00 4 3 2 1 240+00 9 8 7 6 235+00 4 3 2 1 230+00 9 8 7 6 225+00 4 3 2 1

PI 19 - Sta. 267+66.42 - Hub & Tack
1. NW to ½" Rebar 75.00'
2. NE to ½" Rebar 75.00'
3. SE to ½" Rebar 75.00'

PI 20 - Sta. 246+85.75 - Hub & Tack
1. SE to ½" Rebar in S edge of waterway 40'
2. SSW to ½" Rebar in S edge of waterway 40'

Helen M. Norton

Frank Charles Norton

Floyd L. & Myrtle W. Hogg Trust

Sta. 271+53.5 152.0' Lt. Alignment Bk. Tangent Survey # = Sta. 274+82.4 Sewer Line Construct 5' Dia. Type I MH No. 50 End Construction.

Sta. 267+38.2 162.1' Lt. Survey # = Sta. 270+66.9 Sewer Line Construct 5' Dia. Type I MH No. 49

Sta. 261+38.3 176.6' Lt. Survey # = Sta. 264+66.9 Sewer Line Construct 5' Dia. Type I MH No. 48

Sta. 255+38.5 191.0' Lt. Survey # = Sta. 258+66.9 Sewer Line Construct 5' Dia. Type I MH No. 47

Sta. 252+38.6 198.3' Lt. Survey # = Sta. 255+66.9 Sewer Line Construct 5' Dia. Type I MH No. 46

Sta. 231+38.6 200.7' Lt. Survey # = Sta. 234+66.9 Sewer Line Construct 5' Dia. Type I MH No. 45 See Detail Sheet 22.

TBM #13

PI 19

PI 20

DH-3A

30' Temp. Const. Easement

30' Temp. Const. Easement

30' Temp. Const. Easement

HOLMES RD.

24" Force Main by Others @ Elev. 1273.25

Note: Interior of MH's 49 & 50 coated with two coats of coal tar epoxy.

Remove & Replace 24 Lin. Ft. Aggregate Type Surfacing See Detail Sheet 21.

MH No. 44

TBM #13 RR Spike in power pole N. of Magnolia St. approx. 2000' on the E. side of Holmes Rd., 2nd power pole N. of waterway Elev. 1282.65

Scale: 1"=100'

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
B. M., NOTED
STRUCTURE NOTATIONS CHKD.
BY
DATE

Profile Scale
Horiz.: 1"=100'
Vert.: 1"=5'

1290 / 1285 / 1280 / 1275 / 1270 / 1265 / 1260 / 1255 / 1250

℄ Manhole No. 50 Sta. 274+82.4 Top MH Elev. 1281.3

℄ Manhole No. 49 Sta. 270+66.9 Top MH Elev. 1284.3

℄ Manhole No. 48 Sta. 264+66.9 Top MH Elev. 1284.1

℄ Manhole No. 47 Sta. 258+66.9 Top MH Elev. 1283.0

℄ Manhole No. 46 Sta. 255+66.9 Top MH Elev. 1279.2

℄ Holmes Rd. (Aggr. Surf.)

℄ Manhole No. 45 Sta. 234+66.9 Top MH Elev. 1278.3

℄ Manhole No. 44 Sta. 230+16.9 Top MH Elev. 1271.4

℄ Drop

15.6' Drop

Telephone Lines

12" Water Line

Sta. 256+00 Drill Hole 3

Inv. Elev. 1273.25
Inv. Elev. 1273.00

Inv. Elev. 1270.67

Inv. Elev. 1267.31

Inv. Elev. 1263.95

Inv. Elev. 1262.27

Inv. Elev. 1261.71

Inv. Elev. 1259.49
Inv. Elev. 1259.09

415.5 LF @ .5G%
410.5 LF 27"

600.0 LF @ .5G%
595.0 LF 27"

600.0 LF @ .5G%
595.0 LF 27"

300.0 LF @ .5G%
295.0 LF 27"

100.0 LF @ .5G%
95.0 LF 700mm or 30" DIP

450.0 LF @ .5G%
445.0 LF 27"

Remove & Replace 24 LF of Aggr. Surfacing

95% Compaction

Normal Compaction

Normal Compaction

9 8 7 6 275+00 4 3 2 1 270+00 9 8 7 6 265+00 4 3 2 1 260+00 9 8 7 6 255+00 4 3 2 1 250+00 9

PP 10.dwg

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

CP #35 - Sta. 10+77.25 Rt. 'A' - Hub & Tack
1. SE to Entrance outer edge of steel rim of MH. 56.25'
2. NE to Spike in Light Pole. 24.14'
3. NNE to 'X' cut on N. side Magnolia in curb return radius NW corner of intersection Ohio & Magnolia 69.84'
4. W to 'X' cut in S. edge of Sidewalk at Joint. 75.60'

Existing Pavement Removal to be 24.0' ± Sta. 13+43.0 Branch Line "A" End Construction

Site Plan Branch Line "A" Sheet 19

TBM #29

SHALIMAR DR.

Sta. 17+43.0, Rt. 0.4' Survey @ A = Sta. 4+40.0 Branch Line "A" Construct 4' Dia. Type I MH No. 1A

HUNTINGTON ROAD

PI 14 - Sta. 353+93.23 - Hub & Tack
1. WNW to ½" Rebar 0.5' S. of S. edge of pvm't of Magnolia and 4' W. of extended W. curb line of Huntington. 81.90'
2. NW to Spike in power pole on E. side of Huntington. 104.49'
3. NE to ½" Rebar 0.5' S. of S. edge of pvm't of Magnolia. 54.74'

Sta. 0+00.0 Branch Line "A" Begin Construction

PI 15 - Sta. 344+00.26 - Hub & Tack
1. NW to ½" Rebar 20' W. of Field Ent. S. of Magnolia. 73.40'
2. NNW to Spike in power pole on N. side of Magnolia. 106.06'
3. NE to ½" Rebar 0.5' S. of S. edge of Magnolia. 64.55'

PI 16 - Sta. 342+91.04 - Hub & Tack
1. ESE to Spike in power pole. 25.78'
2. SE to ½" Rebar 0.5' N of N. edge of Magnolia 47.43'
3. SW to ½" Rebar 0.5' N of N. edge of Magnolia 69.88'

Sta. 348+98.8, 12.7' Lt. Survey @ = Sta. 344+12.1 Sewer Line Construct Type III G' Dia MH No. 52

Sta. 344+00.3, 12.3' Lt. Survey @ = Sta. 342+19.6 Sewer Line Construct 7' min. Dia Type II MH No. 51 See Detail Sheet 21.

MAGNOLIA ROAD

TBM #10

PI 16

PI 14

DH-2

PI 15

Piping out Connections to Wet Well by others

Wet Well & Pump Station by Others

Elmer G. Olson

Permanent Utility Easement

Pay Limits Demolition P.S. No. 6

Pay Limits Branch Line "A"

OHIO ST.

90'

Sta. [illegible] 6.0' Rt. Survey @ "A" = Sta. 134+00.0 Branch Line "A" Construct 4' Dia. Type I MH No. 3A See Detail Sheets [illegible] & 22

20' Perm. Utility Easement

Remove & Replace 30 LF Concrete Surfacing. See Detail Sheet 25

First Southern Baptist Church

Sta. 15+10.0, 3.4' Rt. Survey @ A = Sta. 8+76.4 Branch Line "A" Construct 4' Dia Type I MH No. 2A See Detail Sheet 22

30' Perm. Utility Easement

30' Perm. Const. Easement

For Continuation See Sheet 13

Sta. 354+11.6 Ah, 3.8' Rt. Survey @ = Sta. 354+10.6 Sewer Line = Sta. 0+00.0 Branch Line "A" Construct 6' Dia Drop Type II MH No. 53 See Detail Sheet 21

Mary L. Marqueling Trust
Mary L. & Louise Marqueling, Trustees

TBM #29. R.R. Spike in power pole at NE corner int. Ohio and Magnolia Elev. 1231.89

TBM #10. R.R. Spike in power pole N. side of Magnolia St. one power pole E. of a field entrance approx. ½ mile E. of Ohio St. Elev. 1236.03

N

Scale: 1" = 100'

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B. M. = NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

Branch Line "A"

Profile Scale
Horiz. : 1" = 100'
Vert. : 1" = 5'

1235 / 1230 / 1225 / 1220 / 1215 / 1210 / 1205 / 1200

℄ Exist. Wet Well Sta. 13+43.0 Top MH Elev. 1230.01

℄ Manhole No. 54 Sta. 13+15.0 Top MH Elev. 1230.9

℄ Ohio St. (Bituminous)

℄ Drive (Concrete)

℄ Manhole No. 24 Sta. 8+76.4 Top MH Elev. 1229.4

℄ Manhole No. 14 Sta. 4+40.0 Top MH Elev. 1227.5

℄ Manhole No. 53 Sta. 354+10.6 Top MH Elev. 1230.2

℄ Manhole No. 53 Sta. 354+10.6 Top MH Elev. 1230.2

℄ Manhole No. 52 Sta. 349+12.1 Top MH Elev. 1230.0

℄ Manhole No. 51 Sta. 344+19.6 Top MH Elev. 1233.2

Existing Groundline

Storm Sewer

20" Water Line

6"ϕ Water Line

6"ϕ Sanitary Sewer Force Main

12"ϕ Sanitary Sewer

Fill with Concrete

Remove & Replace 30 LF Concrete Surfacing

30" Inv. Elev. 1213.03

Inv. Elev. 1218.0

Inv. Elev. 1220.91
Inv. Elev. 1220.69
Inv. Elev. 1220.63
Inv. Elev. 1219.75
Inv. Elev. 1218.88
Inv. Elev. 1218.00
Inv. Elev. 1217.53
Inv. Elev. 1213.03
Inv. Elev. 1212.53
Inv. Elev. 1212.13
Inv. Elev. 1211.73
Outlet Elev. 1211.13

28.0 LF @ 0.20% / 28.0 LF 12"
438.6 LF @ 0.20% / 434.6 LF 12"
436.4 LF @ 0.20% / 432.4 LF 12"
440.0 LF @ 0.20% / 435.0 LF 12"
498.5 LF @ 0.08% / 491.5 LF 36"
498.5 LF @ 0.08% / 492.0 LF 36"

Normal Compaction
Normal Compaction 98% Compaction
Normal Compaction
Normal Compaction

Demolition Pump Sta. No. 8 Unit Price Payment Item Lump Sum

13 12 11 10+00 9 8 7 6 5+00 4 3 2 1 0 4 3 2 1 350+00 9 8 7 6 345+00 4 3

SHEET 12 OF 25

PLAN
SURVEYED
PLOTTED
GRADES CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO
BY
DATE
ALIGNMENTS CHKD
STRUCTURE ELEVATIONS CHKD

Sta. 369+87.7 2.1' Lt.
Survey ℄=
Sta. 369+86.4 Sewer Line
Construct 5' Dia. Type I MH No. 56
See Detail Sheet 12

Sta. 375+12.7 4.0' Lt.
Survey ℄=
Sta. 375+11.4 Sewer Line
Construct 5' Dia. Type I MH No. 57

Mildred I. Miller, 1/6 interest
Ralph E. Miller, 1/6 interest
Mary L. Grigere, 1/6 interest
Dorothy W. Williford, 1/6 interest
Donald W. Miller, 1/6 interest

50' Temporary Construction Easement

DRAINAGE DITCH

30' Permanent Utility Easement

Sta. 359+37.7 1.8' Rt.
Survey ℄=
Sta. 359+36.4 Sewer Line
Construct 5' Dia. Type I MH No. 54

Sta. 364+62.7 0.2' Lt.
Survey ℄=
Sta. 364+61.4 Sewer Line
Construct 5' Dia. Type I MH No. 55

Remove & Replace 18 Lin. Ft.
Aggregate Type Surfacing
See Detail Sheet 21

Mary L. Marqueling Trust

PI 14 - Sta. 353+93.23 - Hub & Tack
1. WNW to ½" Rebar 0.5' S. of S. edge of Magnolia & 4' W. of extended W. curb line of Huntington. 81.90'
2. NW to Spike in power pole on E. side of Huntington. 104.49'
3. NE to ½" Rebar 0.5' S. of S. edge of Magnolia. 54.74'

30' Temporary Construction Easement

Sta. 354+11.8, 3.8' Rt.
Survey ℄=
Sta. 354+10.6 Sewer Line
MH No. 53

100' R/W

Branch Line A
For Continuation
See Sheet 12

HUNTINGTON ROAD

MAGNOLIA ROAD

Scale: 1"=100'

PI 14 - Sta. 353+93.23 - Hub & Tack
1. WNW to ½" Rebar 0.5' S. of S. edge of pvmt. of Magnolia and 4' W. of extended W. curb line of Huntington. 81.90'
2. NW to Spike in power pole on E. side of Huntington. 104.49'
3. NE to ½" Rebar 0.5' S. edge of pvmt. of Magnolia. 54.74'

Profile Scale
Horiz.: 1"=100'
Vert.: 1"=5'

℄ Manhole No. 57
Sta. 375+11.4
Top MH Elev. 1232.4

℄ Manhole No. 56
Sta. 369+86.4
Top MH Elev. 1229.4

℄ Access Road
(Agg. Surf.)

Telephone Line

℄ Manhole No. 55
Sta. 364+61.4
Top MH Elev. 1229.8

℄ Manhole No. 54
Sta. 359+36.4
Top MH Elev. 1230.9

℄ Manhole No. 53
Sta. 354+10.6
Top MH Elev. 1230.2

Remove & Replace 18 LF of Aggregate Surfacing

Inv. Elev. 1215.55

Inv. Elev. 1214.92

Inv. Elev. 1214.29

Inv. Elev. 1213.66

Inv. Elev. 1212.53
℄ Elev. 1209.00 In(W)
℄ Elev. 1213.03 In(S)

525.0 LF @ .12%
520.0 LF 30"
Normal Compaction

525.0 LF @ .12%
520.0 LF 30"
95% Compaction

525.0 LF @ .12%
520.0 LF 30"
Normal Compaction

525.8 LF @ .12%
522.3 LF 30"

1235 1230 1225 1220 1215 1210

7 6 375+00 4 3 2 1 370+00 9 8 7 6 365+00 4 3 2 1 360+00 9 8 7 6 355+00 4 3

PP12.dwg

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATING CH'KD
BY
DATE

PI 13 - Sta. 393+51.47 - Hub & Tack
1. SE to ½" Rebar 50'
2. SSW to ½" Rebar at crapline 50'
3. E to ½" Rebar at end of old oil tank access road. 100'

Frank R. Caywood

Sta. 393+59.8 Ah. on Bk. Tangent
10.4° Lt. Survey @ =
Sta. 393+58.5 Sewer Line
Construct 6" Dia. Type IV. MH No. G1

30' Permanent Utility Easement

Sta. 384+61.9 7.6' Lt.
Survey @ =
Sta. 384+60.6 Sewer Line
Construct 8" Dia. Type I MH No. 59

Branch Line B
For Continuation
See Sheet 18

45' Permanent Utility Easement

30' Temporary Const. Easement

10'

30' Temporary Const. Easement

POL 406 - Sta. 380+35.85 - Hub & Tack
1. WNW to Spike in Hedge Tree 39.05'
2. N to Spike in Hedge Tree 35.35'
3. ENE to Spike in Hedge Tree 53.82'

393+00 392 391 390 389 388 387 386 385 384 383 382 381 380+00 379 378 377 376 375+00 374

PI 13

10'

Sta. 389+01.9 9.2' Lt.
Survey @ =
Sta. 389+00.6 Sewer Line
Construct 8" Dia. Type I
MH No. 60

50' Temporary Construction Easement

Sta. 380+37.7, 6.0' Lt.
Survey @ =
Sta. 380+39.4 Sewer Line
Construct 8" Dia. Type I MH No. 58
See Detail Sheet 22

POL 406

MH No. 57

Remove & Replace 18 Lin. Ft.
Aggregate Type Surfacing
See Detail Sheet 21

N

Scale: 1" = 100'

Profile Scale
Horiz. 1" = 100'
Vert. 1" = 5'

℄ Manhole No. G1
Sta. 393+58.5
Top MH Elev. 1234.2

℄ Manhole No. 60
Sta. 389+00.6
Top MH Elev. 1234.8

℄ Manhole No. 59
Sta. 384+60.6
Top MH Elev. 1233.0

℄ Manhole No. 58
Sta. 380+36.4 Sewer Line
Branch Line B Sta. 0+00.0
Top MH Elev. 1231.5

℄ Manhole No. 57
Sta. 375+11.4
Top MH Elev. 1232.4

F.F. Elev. 1218.81

Inv. Elev. 1217.77

Inv. Elev. 1217.22

Inv. Elev. 1216.69

Inv. Elev. 1216.18

Inv. Elev. 1215.55

457.9 LF @ .12%
452.4 LF 30"

440.0 LF @ .12%
435.0 LF 30"

424.2 LF @ .12%
419.2 LF 30"

525.0 LF @ .12%
520.0 LF 30"

Normal Compaction

Normal Compaction
95% Compaction

1240 1235 1230 1225 1220 1215

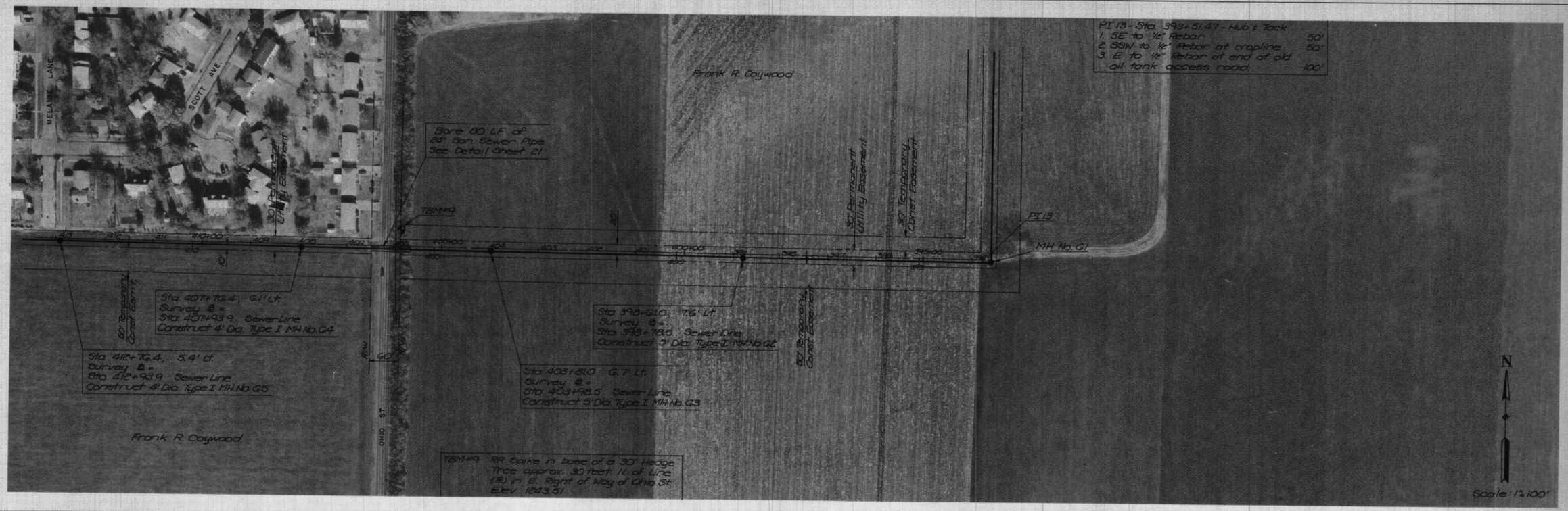
3 2 1 390+00 9 8 7 6 385+00 4 3 2 1 380+00 9 8 7

PP 14 F 2-3

PLAN

SURVEYED	BY	DATE
PLOTTED		
GRADES CHECKED		
R/W & EASEMENT		
RT. OF WAY CHECKED		

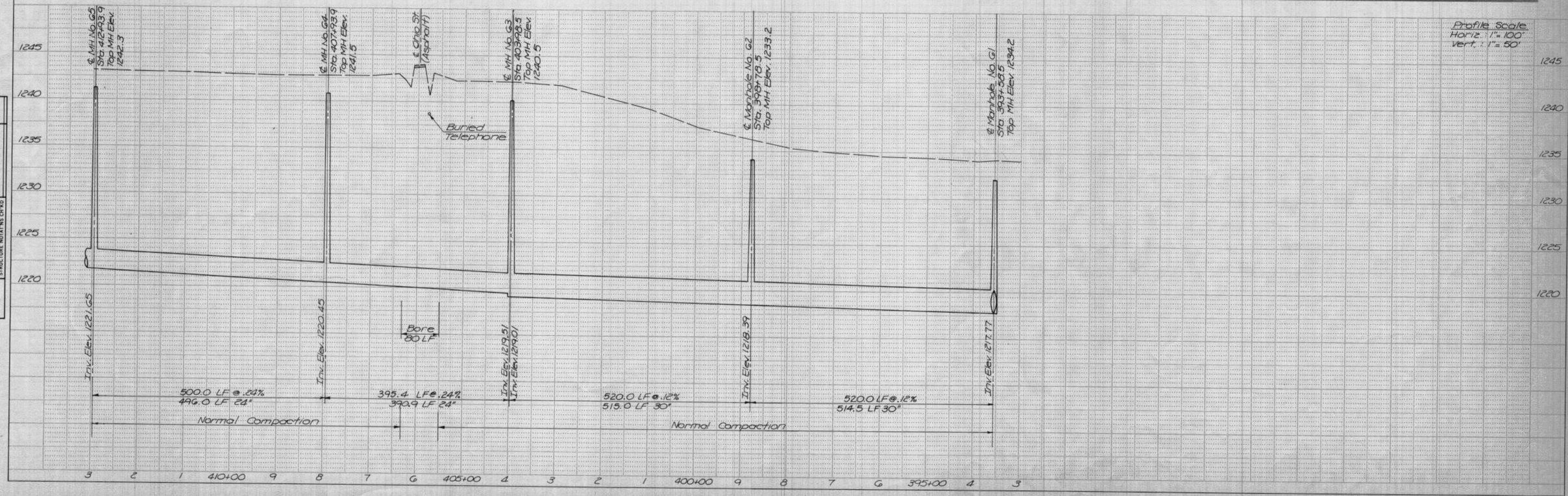
NOTE BOOK
NO.



PROFILE

SURVEYED	BY	DATE
PLOTTED		
GRADES CHECKED		
R/W & EASEMENT		
STRUCTURE NOTATNS CHKD		

NOTE BOOK
NO.



PP15.dwg

PI 12 – Sta. 437+11.08 Hub & Tack
1. NNE to "x" cut in end of curb. 23.70'
2. N to center MH. 34.44'
3. NW to Nail in top of guard rail post. 28.89'
4. NW to "x" cut in end of curb. 42.53'
5. NW to ½" Iron Pipe. 56.00'

Bracket Line 12" for Continuation See Sheet 17

TBM #7

GAIL DR.

RAY AVE.

30' Pavement Easement

LINDA LANE

Jack & Bore 106 LF of 36" Steel Encasement Pipe. See Detail Sheet 21.

TBM #8

30' Pavement Easement

SCOTT AVE.

MELANE LANE

DH-44

PI 12

MH No. G5

UNION PACIFIC RAILROAD

ROW

℄

OHIO ST.

Sta. 437+15.1, 1.6' Lt. Survey ℄ = Sta. 437+32.6 Sewer Line
Construct 4' Dia. Type I MH No. 70

Sta. 431+96.4, 2.4' Lt. Survey ℄ = Sta. 432+13.9 Sewer Line
Construct 4' Dia. Type I MH No. G9

Sta. 426+96.4, 3.2' Lt. Survey ℄ = Sta. 427+13.9 Sewer Line
Construct 4' Dia. Type I MH No. G8

Sta. 421+96.4, 3.9' Lt. Survey ℄ = Sta. 422+13.9 Sewer Line
Construct 4' Dia. Type I MH No. G7

Sta. 416+96.4, 4.7' Lt. Survey ℄ = Sta. 417+13.9 Sewer Line
Construct 4' Dia. Type I MH No. G6
See Detail Sheet 22.

TBM #7 "M" in Meuler, top of Fire Hyd. #225 at #521 Gail (#225 City BM)
Elev. 1246.52

TBM #8 North Cap Bolt, Top of Fire Hyd at S. end of Lynda Ave.
Elev. 1244.98

Frank R. Caywood

N

Scale: 1"=100'

PLAN
SURVEYED
PLOTTED
GRADES CHECKED
R/W - NOTED
STRUCTURE NOTATNS CH'KD
NOTE BOOK
NO.
BY
DATE

Profile Scale:
Horiz. 1"=100'
Vert. 1"= 5'

℄ Manhole No. 70
Sta. 437+42.6
Top MH Elev. 1241.3

℄ Railroad

℄ Manhole No. G9
Sta. 432+13.9
Top MH Elev. 1239.2

℄ Manhole No. G8
Sta. 427+13.9
Top MH Elev. 1240.1

℄ Manhole No. G7
Sta. 422+13.9
Top MH Elev. 1240.7

℄ Manhole No. G6
Sta. 417+13.9
Top MH Elev. 1240.2

℄ Manhole No. G5
Sta. 412+93.9
Top MH Elev. 1242.3

16" Water Line

Gas Lines

℄ Elev. 1228.81

Inv. Elev. 1229.75
Inv. Elev. 1227.50

Jack & Bore 106 LF
36" Steel Encasement Pipe
.5625 Wall Thickness

Inv. Elev. 1226.25

Inv. Elev. 1225.05

Inv. Elev. 1223.85

Inv. Elev. 1222.65

Inv. Elev. 1221.04

518.7 LF @ .24%
514.7 LF 24"

500.0 LF @ .24%
496.0 LF 24"

500.0 LF @ .24%
496.0 LF 24"

500.0 LF @ .24%
496.0 LF 24"

420.0 LF @ .24%
416.0 LF 24"

Normal Compaction

Normal Compaction

1250 1245 1240 1235 1230 1225 1220 1215

7 6 435+00 4 3 2 1 430+00 9 8 7 6 425+00 4 3 2 1 420+00 9 8 7 6 415+00 4 3

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R/W - NOTED
STRUCTURE NOTATNS CH'KD
NOTE BOOK
NO.
BY
DATE

PP 16. dwg

PLAN
SURVEYED BY DATE
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK RT. OF WAY CHECKED
NO

PROFILE
SURVEYED BY DATE
PLOTTED
GRADES CHECKED
NOTE BOOK B. M. NOTED
NO STRUCTURE NOTATNS CH'KD

PI 11 - Sta. 457+77.92 - Hub & Tack
1. SSW to Spike in W. post of "Welcome to Salina" Sign 89.01'
2. SW to Spike in joint at E. edge of Ninth St. 83.74'
3. WW to Spike in joint at E. edge of Ninth St. 71.56'
4. N to Spike in power pole 87.52'
5. W to Spike in joint at E. edge of Ninth St. 49.90'

PI 12 - Sta. 437+17.08 - Hub & Tack
1. NNE to "x" cut in end of curb 23.10'
2. NW to Nail in top of guard rail post 28.45'
3. NW to "x" cut in end of curb 42.58'
4. NW to ½" Iron Pipe 56.00'

Sta. 457+16.3, 10.6' Lt. Survey ℄ =
Sta. 457+33.8 Sewer Line
Construct 8" Dia. Type I MH No. 74
End Construction

Sta. 452+62.4, 8.6' Lt. Survey ℄ =
Sta. 452+79.9 Sewer Line
Construct 4' Dia. Type I MH No. 73
See Detail Sheet 22

Sta. 447+62.4, 6.3' Lt. Survey ℄ =
Sta. 447+79.9 Sewer Line
Construct 4' Dia. Type I MH No. 72

Sta. 442+42.4, 3.9' Lt. Survey ℄ =
Sta. 442+61.9 Sewer Line
Construct 4' Dia. Type I MH No. 71

K/ Force Main by Others
E. Elev. 1235.00

PI 11

TBM #6

TBM #6 "x" cut in south end of curb return SW corner of Earthcare Service Entr. & Frontage Rd. W. of 9th St.
Elev. 1245.47

9TH STREET (SOUTH BOUND)
9TH STREET (NORTH BOUND)

HIGHLAND AVE.
SCOTT AVE.
GAIL DR
W. RAY AVE.

30' Perm. Util. Easement
30' Perm. Const. Easement

Lift Sta. #43

Plug Existing Force Main

TBM #7

See Detail Sheet 20 for Construction of Branch Line "C"

MH No. 70

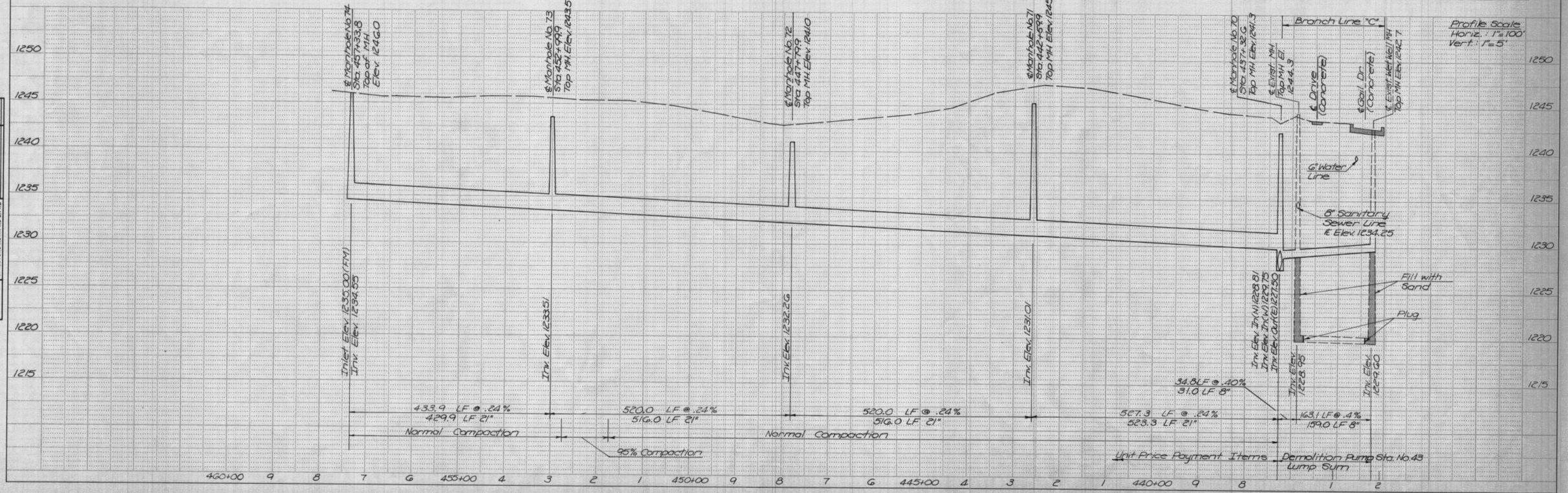
UNION PACIFIC RAILROAD

*Note: Manholes No. 72 and No. 73 coated w/ two coats of Coal Tar Epoxy.

Anna M. Debold Trust
Dorris E. & Dorothy A. Winslow &
First National Bank & Trust Co. Trustees

TBM #7 "T" in Meuller Top of Fire Hyd. #225 at #501 Gail (#225 City BM)
Elev. 1246.52

Scale: 1"=100'



PF 17 dwg

C.P. 52 - Sta. 11+40.00 - Hub & Tack
1. WNW to center of Manhole 9.05'
2. NNE to notch in 21" RCP 5.10'
3. WNW to center of Guy Anchor 18.35'

P.I. 53 - Sta. 12+38.20 - Hub & Tack
1. WSW to Spike in 10" Hackberry 41.33'
2. WNW to Spike in power pole 52.03'
3. WSW to Spike in 10" Hackberry 80.50'

P.I. 54 - Sta. 14+79.03 - Hub & Tack
1. N to Spike in Hedge Tree 35.25'
2. W to Spike in 6" Chinese Elm Tree 16.85'
3. ENE to Spike in 8" Hackberry 49.10'

P.O.L. 40G - Sta. 380+35.85 - Hub & Tack
1. WNW to Spike in Hedge Tree 39.05'
2. N to Spike in Hedge Tree 35.35'
3. ENE to Spike in Hedge Tree 56.82'

Sta. 11+99.21 Bk., 3.8' Lt. Survey ℄ "B" -
Sta. 11+73.7 Branch Line "B"
Construct 4' dia. Type I MH No. 28

Sta. 11+33.5, 30' Lt. Survey ℄ "B" -
Sta. 17+28.4 Branch Line "B"
Construct 4' dia. Type I MH No. 48

Sta. 12+33.5, 30' Lt. Survey ℄ "B" -
Sta. 16+27.4 Branch Line "B"
Construct 4' dia. Type I MH No. 38

Sta. 380+37.7, 6.0' Lt. Survey ℄ -
Sta. 69+87.0, 2.2' Rt. Survey ℄ "B" -
Sta. 0+00.0 Branch Line "B"
Begin Construction

Sta. 22+97.0, 2.5' Rt. Survey ℄ -
Sta. 5+90.0 Branch Line "B"
Construct 4' Dia. Type I MH No. 18
See Detail Sheet 22.

45' Permutility Easement

50' Perm. Utility Easement

30' Temp. Const. Easement

For Continuation See Sheet 14.

For Continuation See Sheet 14.

MH No. 58

Interceptor Sewer

P.I. = 54

P.O.L. 40G

Sta. 1+54.4 Branch Line "B" -
Connect to Exist. Wet Well -
End Construction

TBM #28

Demo Sta. 4+20

See Site Plan Branch Line "B" Sheet 20

TBM #28 ℄ Cap Bolt on Fire Hyd. at N.W. Corner of Ohio & Neal Sts.
Elev. 1242.63

NEAL AVE.

OHIO ST.

Frank R. Claywood

N

Scale: 1" = 100'

PLAN
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE
ASSISTANT CHECKED
RT. OF WAY CHECKED

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE
ASSISTANT CHECKED
B. M.: NOTED
STRUCTURE NOTATING CHKD

Branch Line "B"

Profile Scale
Horiz.: 1" = 100'
Vert.: 1" = 5'

℄ Existing Mh #1
Sta. 17+54.4
Top MH Elev. 1240.4

℄ Manhole No. 48
Sta. 17+28.4
Top MH Elev. 1240.7

℄ Ohio St. (Asphalt)

℄ Manhole No. 38
Sta. 16+27.4
Top MH Elev. 1239.9

℄ Manhole No. 28
Sta. 11+73.7
Top MH Elev. 1234.6

℄ Manhole No. 18
Sta. 5+90.0
Top MH Elev. 1233.8

℄ Manhole No. 58
Sta. 0+00.0
Top MH Elev. 1231.5

Buried Telephone

Water Line

Fill with Sand

Inv. Elev. 1223.20

Inv. Elev. 1223.10

Inv. Elev. 1222.80

Inv. Elev. 1221.72

Inv. Elev. 1220.27

Inv. Elev. 1218.21

Inv. Elev. 1216.18

24.0 LF @ 0.40%
26.0 LF 10"

101.0 LF @ 0.248%
96.0 LF 10"

453.7 LF @ 0.248%
448.7 LF 10"

583.7 LF @ 0.248%
578.7 LF 10"

5900 LF @ 0.248%
585.5 LF 10"

95% Comp.

Normal Compaction

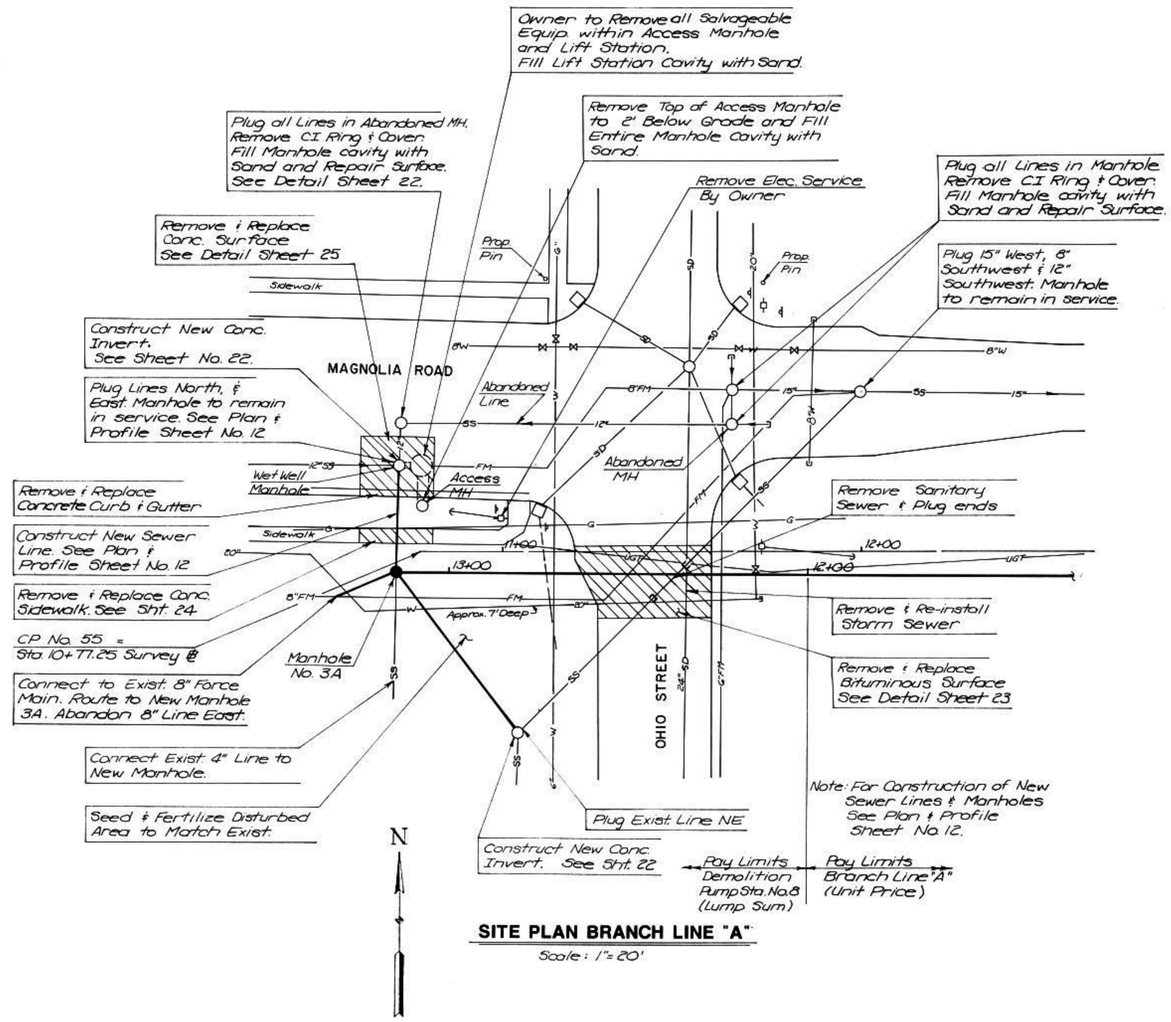
Demolition Pump Sta. No. 26 Lump Sum

Unit Price Payment Items

1240 1235 1230 1225 1220 1215

8 7 6 5+00 4 3 2 1 10+00 9 8 7 6 5+00 4 3 2 1 0

pp13.dwg



SITE PLAN BRANCH LINE "A"

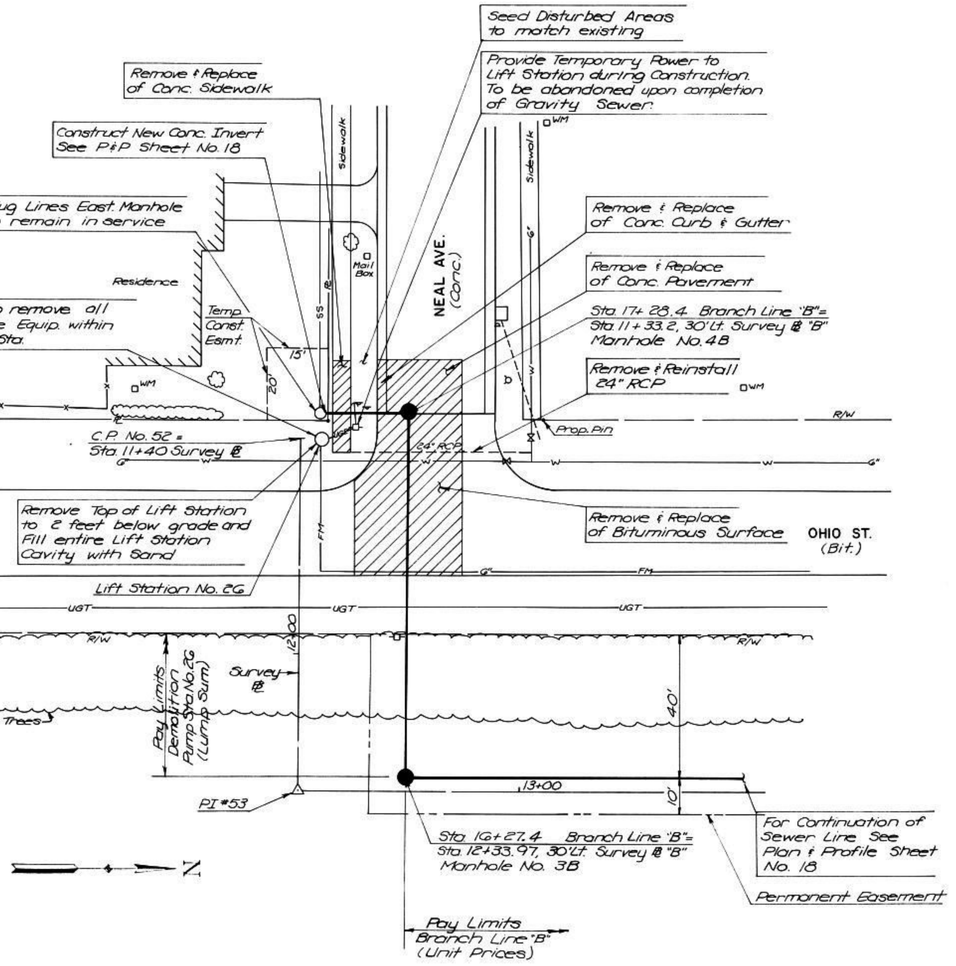
Scale: 1"= 20'

EAST DRY CREEK INTERCEPTOR SEWER
SALINA, KANSAS

SITE PLAN BRANCH LINE "A"

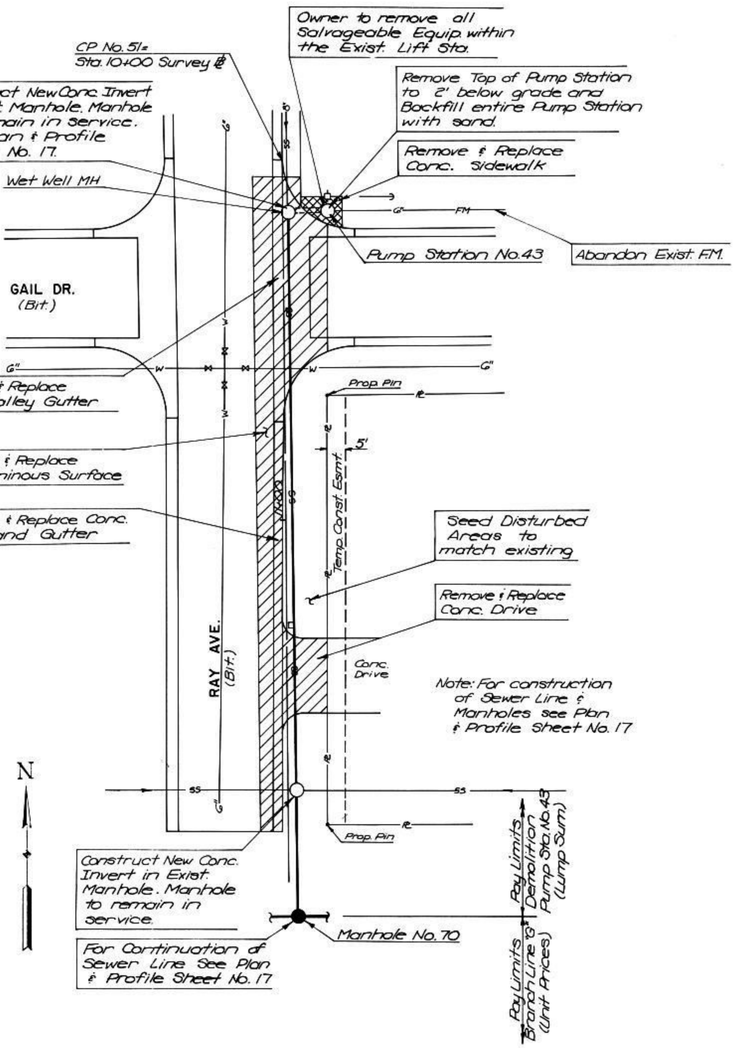
BUCHER, WILLIS & RATLIFF
ENGINEERS ▪ PLANNERS ▪ ARCHITECTS
SALINA HAYS KANSAS CITY

MADE DMB DATE 3-10-92 TRACED CSS DATE 3-13-92
CHECKED RDM DATE 5-6-92 SCALE As Noted



SITE PLAN BRANCH LINE "B"

Scale : 1"= 20'



SITE PLAN BRANCH LINE "C"

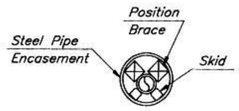
Scale : 1"= 20'

EAST DRY CREEK INTERCEPTOR SEWER
SALINA, KANSAS

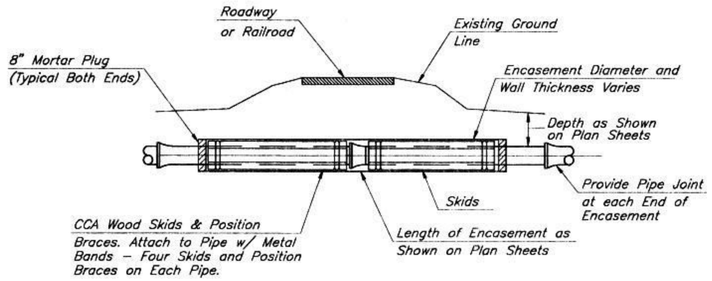
SITE PLAN BRANCH LINE "B"
& BRANCH LINE "C"

BUCHER, WILLIS & RATLIFF
ENGINEERS ▪ PLANNERS ▪ ARCHITECTS
SALINA HAYS KANSAS CITY

MADE DMB DATE _____ TRACED CSS DATE 3-13-92
CHECKED RDM DATE 5-6-92 SCALE As Noted

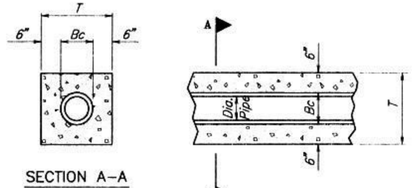


CROSS SECTION



ENCASEMENT DETAIL

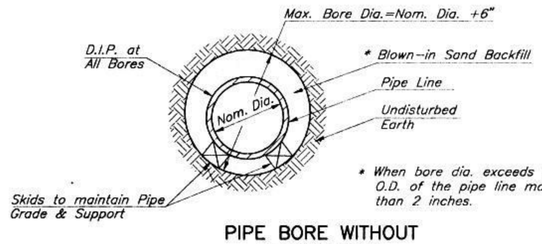
No Scale



For use only where indicated on detailed plans or as directed by the Engineer.

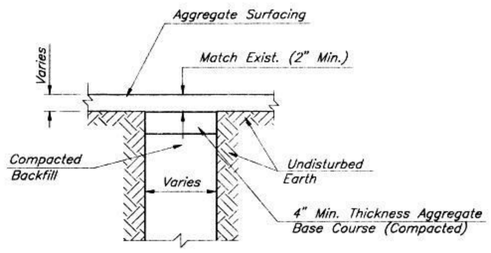
CONCRETE ENCASEMENT DETAILS

No Scale



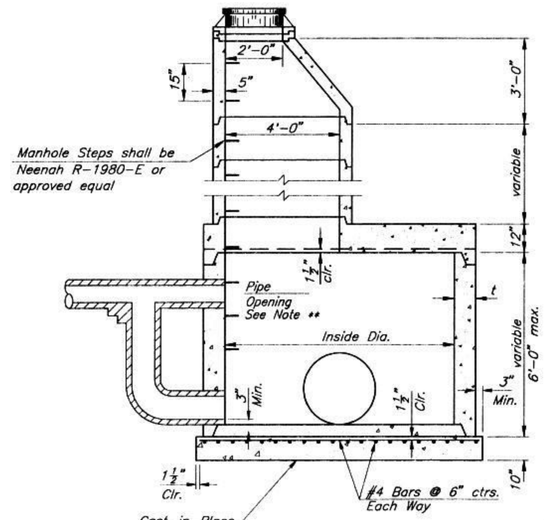
PIPE BORE WITHOUT ENCASEMENT

No Scale



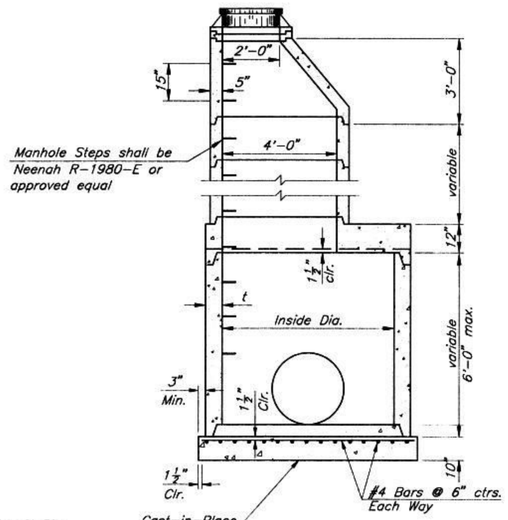
AGGREGATE SURFACING

No Scale



TYPE V REDUCING DROP MANHOLE

No Scale

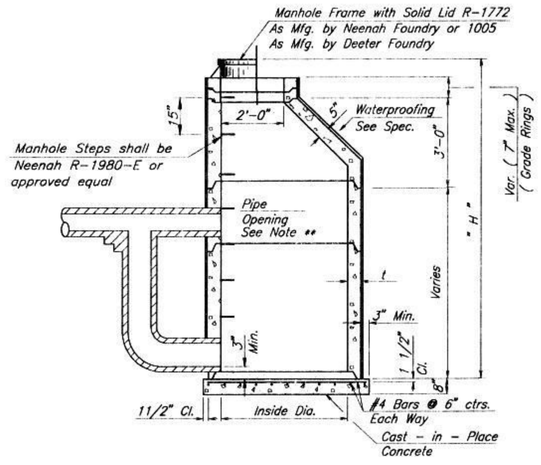


t=7" for 6' Dia.
9" for 8' Dia.

TYPE IV REDUCING MANHOLE

No Scale

*Note ** Openings for sewer pipes to be flexible and water-tight in accordance with ASTM C923.*



t =5" for 4' Dia.
6" for 5' Dia.

TYPE III MANHOLE

No Scale

*Note ** Openings for sewer pipes to be flexible and water-tight in accordance with ASTM C923.*

GENERAL NOTES

Erection holes, step holes, or other holes through the wall of the manhole shall be covered with 3" concrete grout and cover an area 6" in all directions from said hole.

Grade rings shall be formed with tongue and groove or lugs and notches. Grade rings shall be set in mortar or plastic joint compound approved by the Engineer.

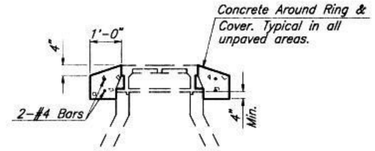
When field conditions require "H" to be adjusted, additional grade rings may be used as directed by the Engineer.

Dimensions to reinforcing steel are to the center of the bar.

Concrete bases for precast manholes shall be 3,000 psi concrete.

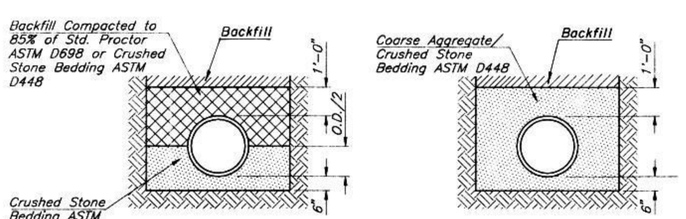
Unstable material encountered in the subgrade of manhole shall be removed and replaced with base course granular fill material as specified.

Manhole bases shall be placed directly on or against rock or hard shale where encountered.



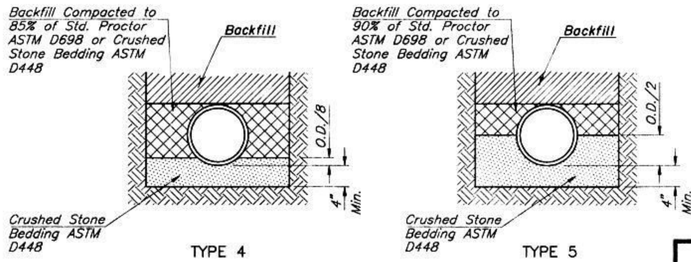
CONCRETE PROTECTION COLLAR

Scale: 1/2"=1'-0"

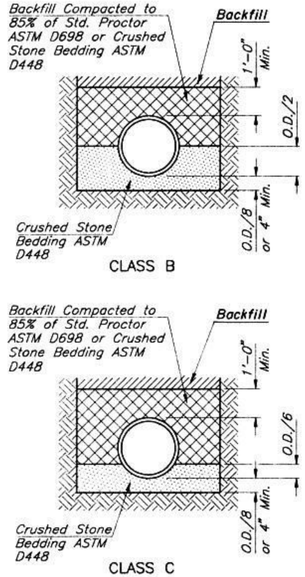


1. *Less than 25 Ft. cover: Shovel slice or compact embedment in haunches to springline.*
2. *25 Ft. of cover or more: Shovel slice stone in haunches, through springline in lifts until pipe is covered one foot.*
3. *Minimum width of trench is the pipe O.D.+18".*
4. *Maximum trench width is pipe O.D.+24".*

BEDDING FOR PVC PIPE



BEDDING FOR DUCTILE IRON PIPE



BEDDING FOR VCP

PIPE EMBEDMENTS

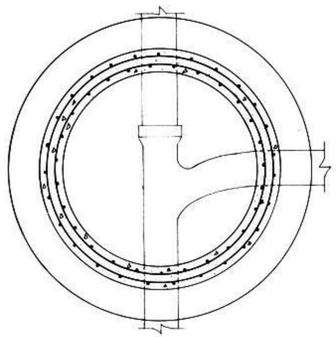
No Scale

EAST DRY CREEK INTERCEPTOR SEWER
SALINA. KANSAS

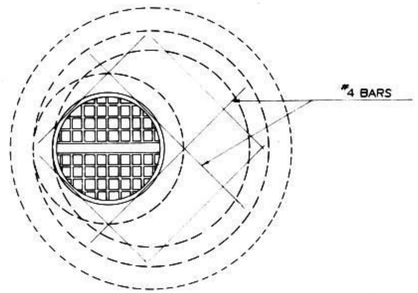
MISCELLANEOUS DETAILS

BUCHER, WILLIS & RATLIFF
ENGINEERS ▪ PLANNERS ▪ ARCHITECTS
SALINA HAYS KANSAS CITY

MADE DMB DATE 1-27-92 TRACED CSS DATE 1-27-92
CHECKED DMB DATE 8-13-92 SCALE As Noted



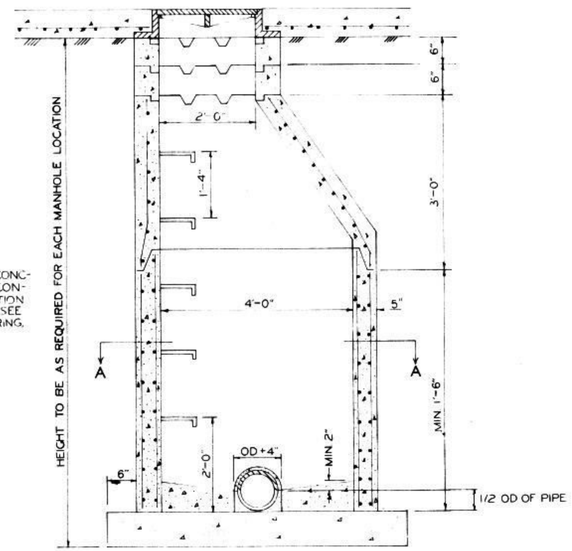
SECTION A-A



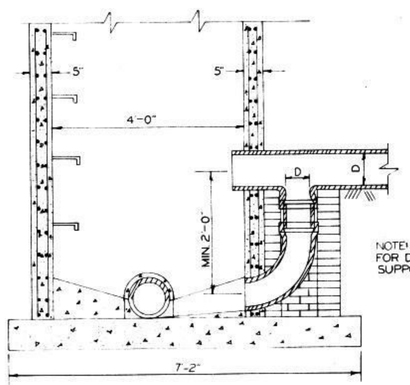
PLAN

GENERAL NOTE

PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO A.S.T.M. SPECIFICATION C478 70, WITH REVISIONS. SEE SHEET 23 FOR MANHOLE, RING, COVER, AND STEP DETAILS.

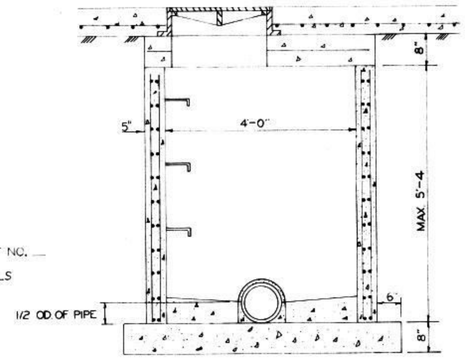


DETAIL OF STANDARD MANHOLE
TYPE "I"



NOTE: SEE SHEET NO. ___ FOR DROP PIPE SUPPORT DETAILS

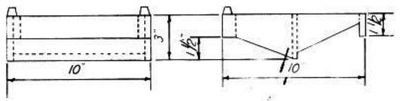
DETAIL OF DROP MANHOLE



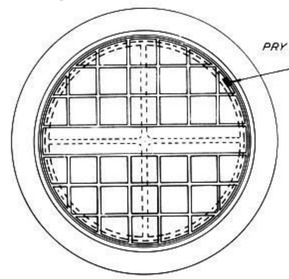
DETAIL OF SHALLOW MANHOLE
TYPE II

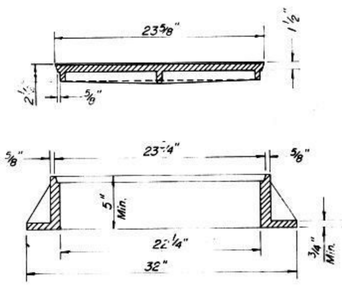
SANITARY	SEWER
Standard	Details
CITY OF	SALINA
Engineering	Department
300 W. ASH	SALINA, KANSAS
Date 5-8-92	Project No. 91-848 Sh. 22 of 25

TRACED BY: CHECKED BY: DATE:
DRAWN BY: DATE:
PLOTTED BY: DATE:
PROFILE BY: DATE:
PRELIM. BY: DATE:



STANDARD MANHOLE STEP
FOR ALL MANHOLES OVER
3-0" DEEP.
MIN. WT. 10½ LBS.

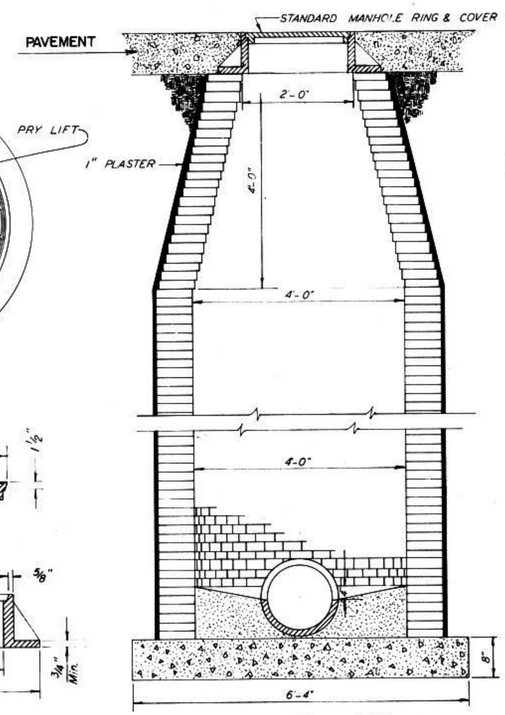




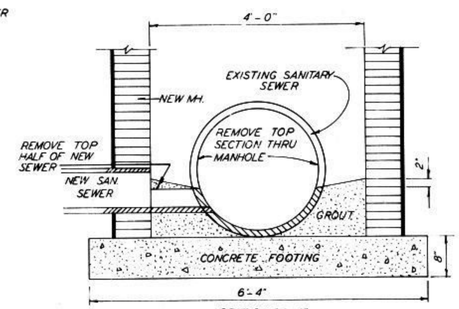
STANDARD MANHOLE RING & COVER

STREET M.H. RING	170 LB. MIN.
COVER	110 LB. MIN.

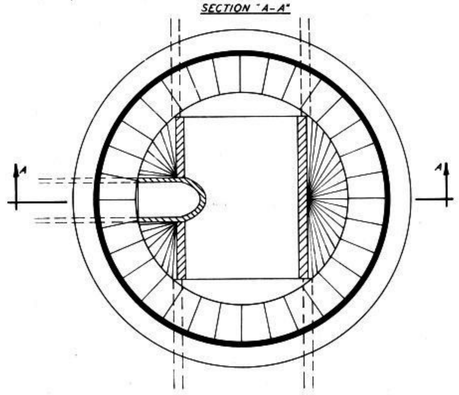
STREET M.H. RING AND COVER TO BE MACHINED



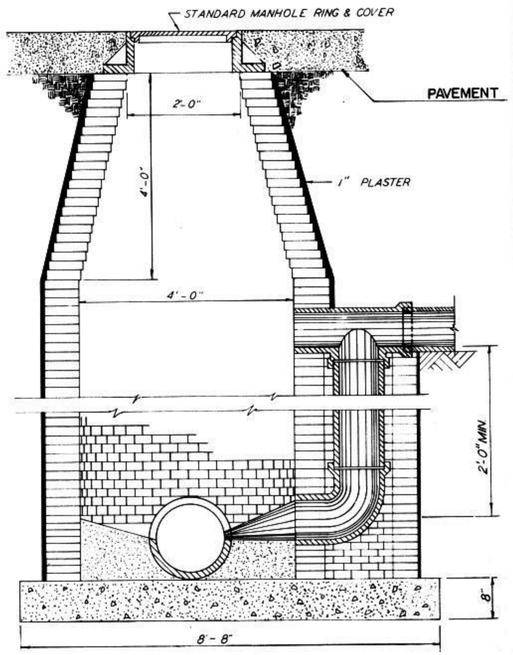
TYPE "I" STANDARD BRICK MANHOLE



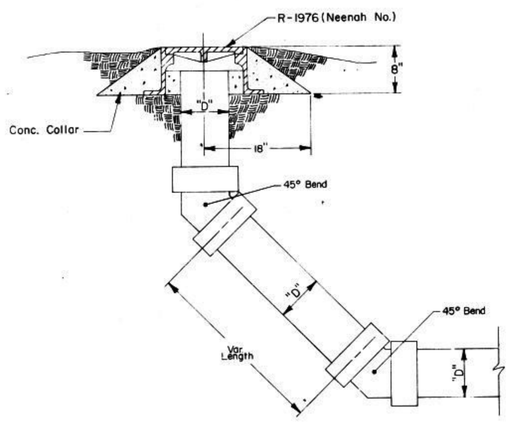
SECTION "A-A"



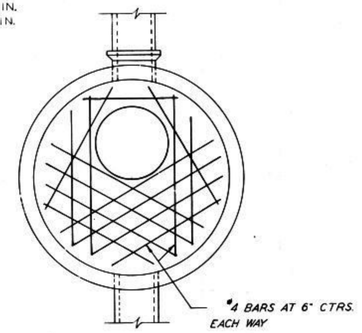
NEW SEWER CONNECTION



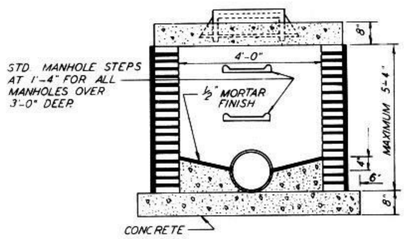
DETAIL DROP MANHOLE



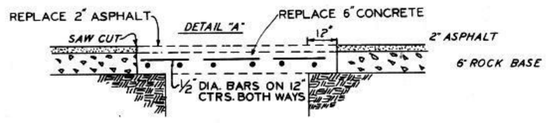
TEMPORARY
SANITARY SEWER CLEAN OUT

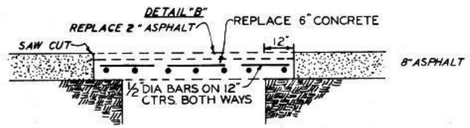


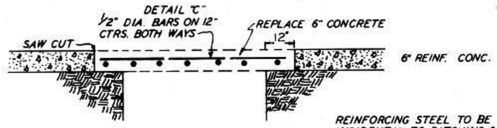
PLAN
STANDARD SHALLOW MANHOLE



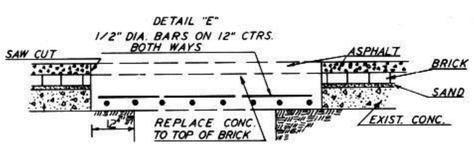
SECTION
STANDARD BRICK MANHOLE
FOR SHALLOW DEPTH
TYPE II

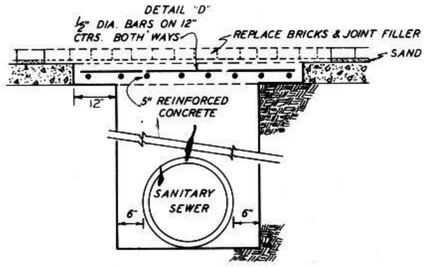






REINFORCING STEEL TO BE INCIDENTAL TO PATCHING & SHALL NOT BE CONSIDERED AN EXTRA PAY ITEM.





PAVEMENT CUTTING DETAILS
PATCHING DETAILS

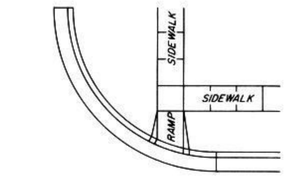
REVISED	DATE

CITY OF SALINA KANSAS
CITY ENGINEER'S OFFICE

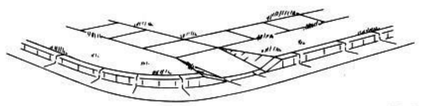
STANDARD DETAILS

SANITARY SEWER

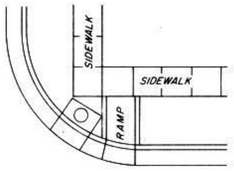
DATE: 5-8-92 JOB NO. 91-848 SH. 23 OF 25



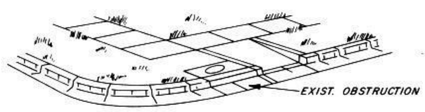
PLACE 1/2" EXPANSION JOINT AT B/C.
MAXIMUM SLOPE OF RAMP - 1:12.



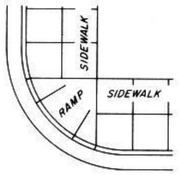
TYPE I RAMP



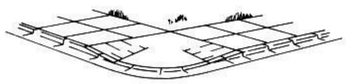
PLACE 1/2" EXPANSION JOINT AT B/C.
MAXIMUM SLOPE OF RAMP - 1:12.



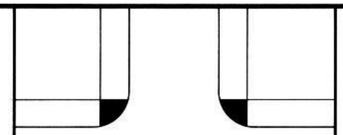
TYPE II RAMP



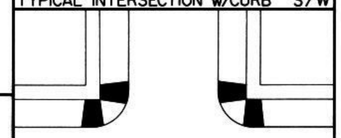
PLACE 1/2" EXPANSION JOINT AT B/C.
MAXIMUM SLOPE OF RAMP & FLARES - 1:12
TO BE USED WITH CURB SIDEWALK OR
ADJACENT TO A WALKING SURFACE.



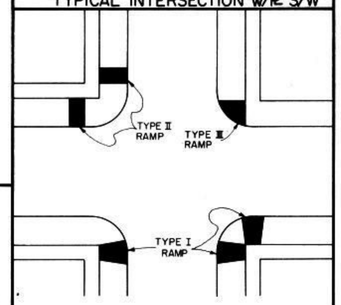
TYPE III RAMP



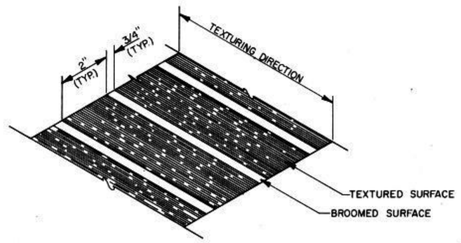
TYPICAL INTERSECTION w/CURB S/W



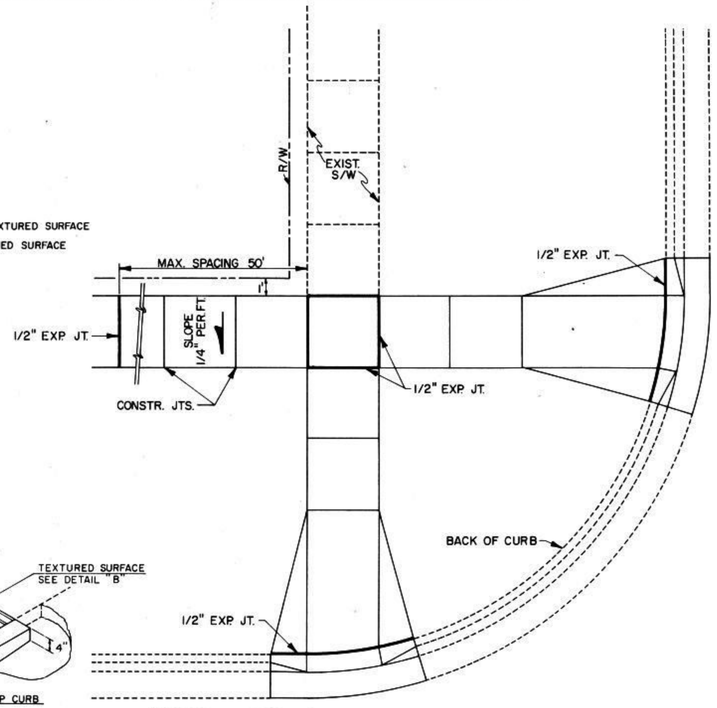
TYPICAL INTERSECTION w/℄ S/W



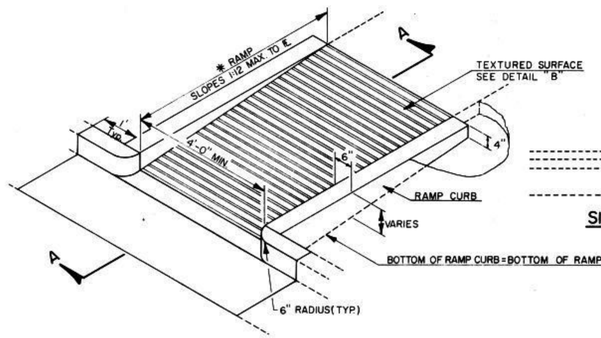
POSSIBLE SIDEWALK COMBINATIONS



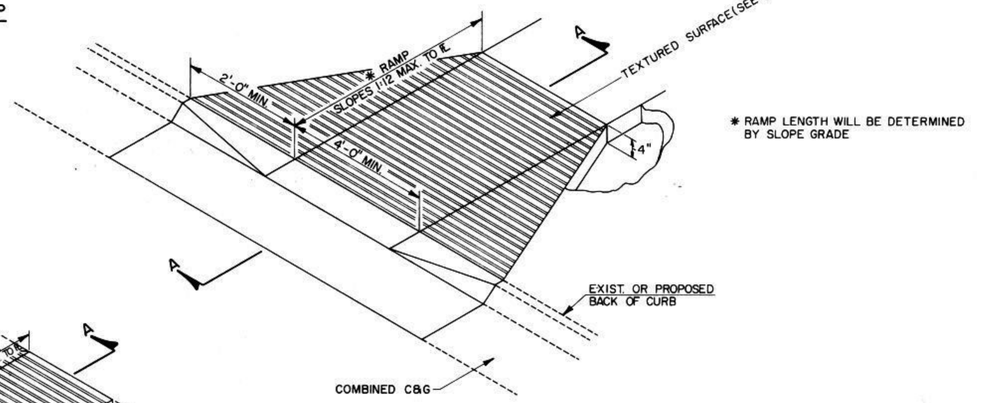
DETAIL "B"



SIDEWALK DETAILS

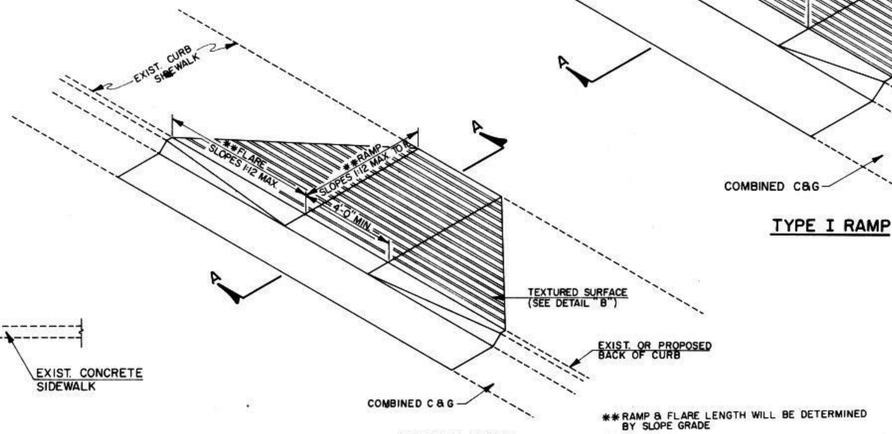


TYPE II RAMP



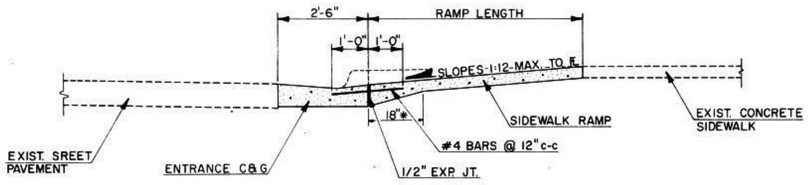
* RAMP LENGTH WILL BE DETERMINED BY SLOPE GRADE

TYPE I RAMP



TYPE III RAMP

** RAMP & FLARE LENGTH WILL BE DETERMINED BY SLOPE GRADE



SECTION A-A

* EXTRA THICKNESS SUBSIDIARY

DONALD E. HOLT
LICENSED
5984
KANSAS
ENGINEER

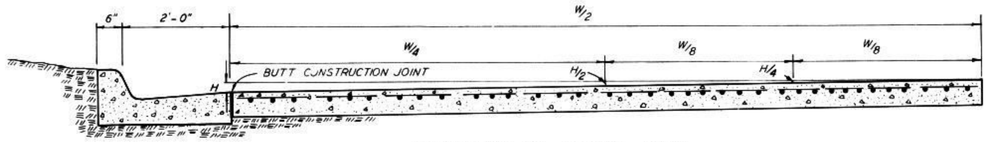
RAMP DETAILS

CITY OF SALINA
Engineering Department
300 W. ASH SALINA, KANSAS

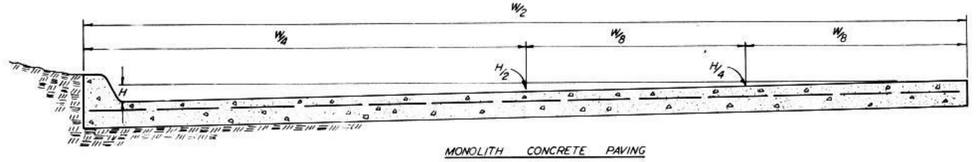
Date 5-8-92 | Project No. 91-848 | Sh. 24 of 25

SHEET 24 OF 25

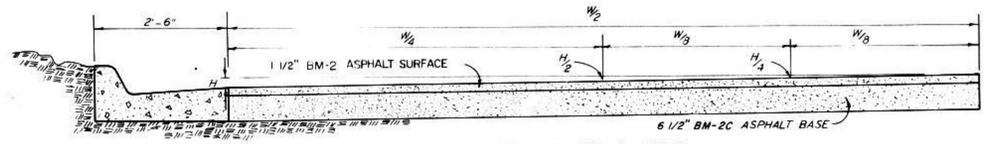
SALINA BLUEPRINT CO. 10/7/94



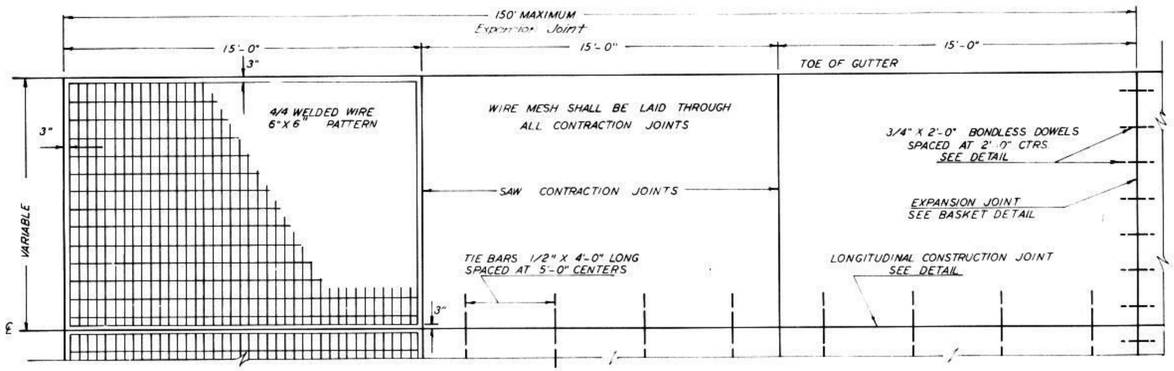
CURB & GUTTER AND CONCRETE PAVING
W= 31' OR OVER



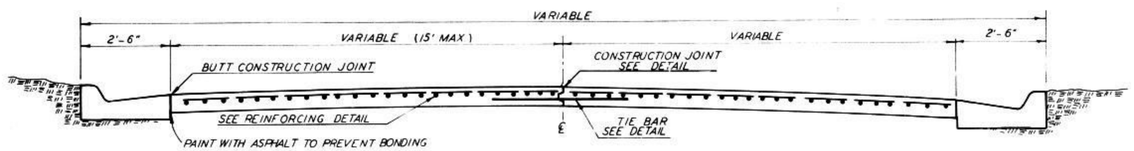
MONOLITH CONCRETE PAVING



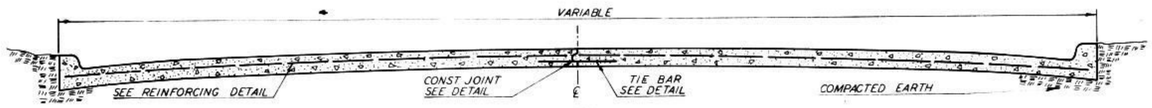
CURB & GUTTER AND ASPHALT PAVING



PART PLAN VIEW SHOWING REINFORCEMENT
1/4" = 1'-0"

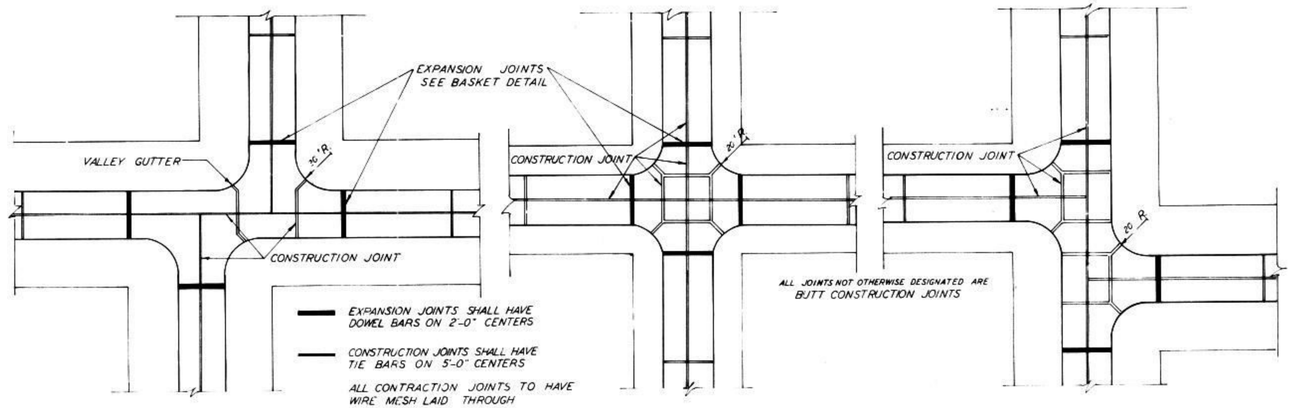


TYPICAL SECTION
6" REINFORCED CONCRETE PAVEMENT

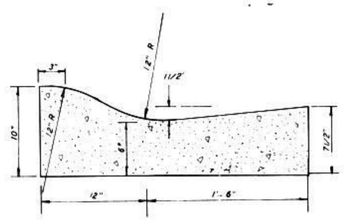


TYPICAL SECTION
6" REINFORCED MONOLITHIC CONCRETE
PAVEMENT & CURB

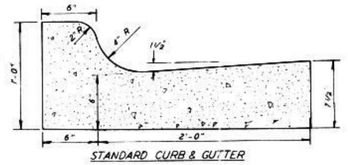
CROWN VARIATIONS					
ASPHALT		CONCRETE		MONOLITHIC	
WIDTH (W)	CROWN (H)	WIDTH (W)	CROWN (H)	WIDTH (W)	CROWN (H)
24'	0.33'	24'	0.33'	29'	0.45'
26'	0.35'	26'	0.35'	31'	0.47'
28'	0.38'	28'	0.38'	33'	0.50'
30'	0.39'	30'	0.39'	35'	0.51'
32'	0.40'	32'	0.40'	37'	0.52'
34'	0.41'	34'	0.41'	39'	0.53'
36'	0.42'	36'	0.42'	41'	0.54'
38'	0.43'	38'	0.43'	43'	0.55'
40'	0.44'	40'	0.44'	45'	0.56'
44'	0.46'	44'	0.46'	49'	0.58'
48'	0.48'	48'	0.48'	53'	0.60'



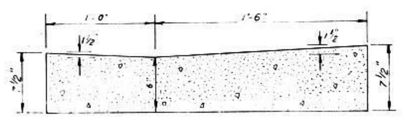
DETAIL
TYPICAL INTERSECTIONS SHOWING
EXPANSION AND CONSTRUCTION JOINTS



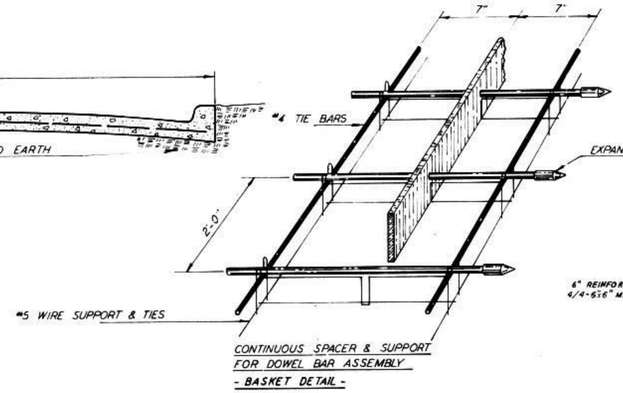
ROLLED CURB



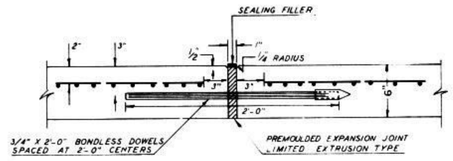
STANDARD CURB & GUTTER



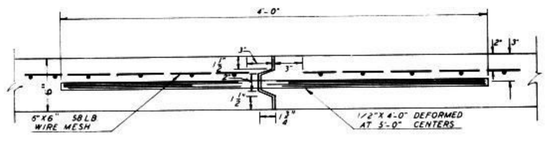
ENTRANCE GUTTER



CONTINUOUS SPACER & SUPPORT
FOR DOWEL BAR ASSEMBLY
- BASKET DETAIL -



DETAIL
EXPANSION JOINT
SEE BASKET DETAIL

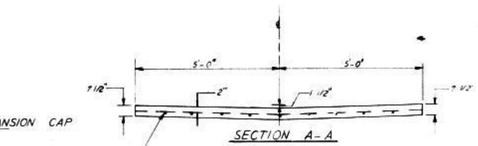


DETAIL
LONGITUDINAL CONSTRUCTION JOINT

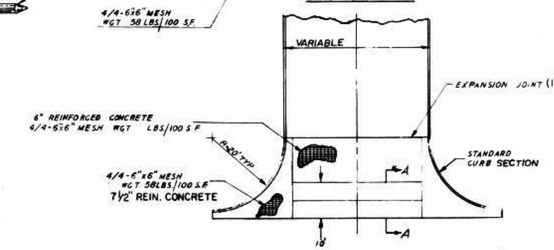
DETAIL
LAP FOR WIRE FARRIC

NOTE
THE LAP SHALL EXTEND BEYOND THE FIRST TRANSVERSE
WIRE OF EACH SHEET. THE SHEET SHALL BE WIRED
SECURELY AT THE EDGES AND AT INTERVALS NOT TO EXCEED
30" FOR THE FULL LENGTH OF EACH SHEET
SEE ENLARGED DETAIL OF WIRING BELOW

WIRING DETAIL



SECTION A-A



VALLEY GUTTER

REVISED	DATE

CITY OF SALINA, KANSAS
CITY ENGINEER'S OFFICE
STANDARD DETAILS
PAVEMENT – REINFORCING
CONSTRUCTION JOINTS

DATE 5-8-92 | PROJECT NO. 91-848 | SH 25 OF 25

TRACED BY | DATE
CHECKED BY | DATE
DRAWN BY | DATE
PLOTTED BY | DATE
PROFILE BY | DATE
PRELIM. BY | DATE