

LOCATION MAP



UTILITY LOCATING

Construction will follow several utility corridors. Utilities were marked and surveyed for design, but will require potholing at various locations to determine depth of utilities prior to construction to avoid relocation where possible. Where possible, Home Sewage Treatment Systems (HSTS) were avoided, but records for all lots are not complete and will require marking and possible adjustment.

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2784 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN JOINTLY PREPARED BY:

DELAWARE SOIL AND WATER
CONSERVATION DISTRICT
1610 SR 521
DELAWARE, OHIO 43015
PHONE: (740)368-1921 EXT.4 FAX: (740)369-8321

DELAWARE COUNTY ENGINEER'S OFFICE
1610 SR 521
DELAWARE, OHIO 43015
PHONE:(740) 833-2400 FAX: (740)833-2399

STATE OF OHIO, DELAWARE COUNTY
DELAWARE COUNTY ENGINEER

FRANKLIN

DRAINAGE IMPROVEMENT PROJECT

DELAWARE COUNTY
GENOA TOWNSHIP

Franklin South Main 1 Surface Drain			
ESTIMATED QUANTITIES			
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	1	Lump
NRCS 608	Surface Drain - Swale	1,345	Lineal Feet
ODOT 611	19" x 30" Elliptical Concrete Culvert, Type B Installation, Paved Drive	40	Lineal Feet
ODOT 611	19" x 30" Elliptical Concrete Culvert, Type B Installation, Gravel Drive	40	Lineal Feet
ODOT 601	Culvert/Pond Inlet and Outlet Protection - Riprap	3	Each
ODOT 659	Seeding & Mulching	2,500	Square yards
Franklin South Main 1 Subsurface Drain			
ESTIMATED QUANTITIES			
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	1	Lump
NRCS 606	8" Pipe, Perforated	60	Lineal Feet
NRCS 606	10" Pipe, Perforated	395	Lineal Feet
ODOT 611	10" Pipe (707.33), Type B Installation, Paved Driveway	20	Lineal Feet
NRCS 606	12" Pipe, Perforated	860	Lineal Feet
ODOT 611	12" Pipe (707.65), Non-Perforated	20	Lineal Feet
ODOT 611	12" Pipe (707.33), Type B Installation, Gravel Driveway	20	Lineal Feet
NRCS 606	Tile Main Breathers	6	Each
ODOT 202	Tile Destruction in Place	1,315	Lineal Feet
ODOT 659	Seeding & Mulching	400	Square yards
SPECIAL	Utility Relocation	1	Lump
Franklin South Main 2 Subsurface Drain			
ESTIMATED QUANTITIES			
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	1	Lump
NRCS 606	10" Pipe, Perforated	700	Lineal Feet
ODOT 611	10" Pipe (707.33), Type B Installation, Paved Driveway	40	Lineal Feet
ODOT 611	10" Pipe (707.33), Type B Installation, Concrete Driveway	20	Lineal Feet
ODOT 452	Non-Reinforced Portland Cement Concrete Pavement Driveway Repair, 6" in Driveway approach (including removal and disposal of existing pavement section)	1	Lump
ODOT 611	10" Pipe (707.65), Type B Installation, Paved Road	40	Lineal Feet
NRCS 606	Tile Main Breathers	5	Each
ODOT 659	Seeding & Mulching	800	Square yards
ODOT 614	Maintenance of Traffic	1	Lump
SPECIAL	Utility Relocation	1	Lump
Franklin South Main 1 Laterals 1 & 2			
ESTIMATED QUANTITIES			
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	1	Lump
NRCS 606	8" Pipe, Perforated	960	Lineal Feet
NRCS 606	Tile Main Breathers	7	Each
ODOT 659	Seeding & Mulching	900	Square yards
SPECIAL	Utility Relocation	1	Lump
Franklin North Subsurface Drain			
ESTIMATED QUANTITIES			
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	1	Lump
NRCS 606	10" Pipe, Non-Perforated	871	Lineal Feet
NRCS 606	12" Pipe, Perforated	1,500	Lineal Feet
ODOT 611	12" Pipe (707.65), Type B Installation, Paved Road	40	Lineal Feet
ODOT 611	12" Pipe (707.33), Type B Installation, Paved Driveway	150	Lineal Feet
ODOT 611	12" Pipe (707.33), Type B Installation, Gravel Driveway	60	Lineal Feet
NRCS 606	Tile Main Breathers	11	Each
ODOT 659	Seeding & Mulching	3,000	Square yards
ODOT 611	Tile Connection to Precast Drainage Structure	1	Lump
SPECIAL	Utility Relocation	1	Lump

INDEX OF SHEETS

TITLE SHEET	1
DETAILS & NOTES	2
CULVERT SHEET	3
SOUTH MAIN 1 PLAN & PROFILE	4-5
SOUTH MAIN 2 PLAN & PROFILE	6
NORTH MAIN PLAN & PROFILE	7
CROSS SECTIONS	8-9
EASEMENTS	10

PROJECT DESCRIPTION

This project will include the improvement of surface drainage, the installation of subsurface drain, the destruction of existing subsurface drain tile, and the taking of temporary and permanent easements.

This project/improvement is being done pursuant to Ohio Revised Code Sections 6131 and 6137.

2023 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement. English units shall govern. Where noted, specifications of the USDA Natural Resources Conservation Service shall supplement the ODOT specifications.

BENCHMARK DESCRIPTION

BM#1
The station is 5+00, the benchmark is a survey monument.

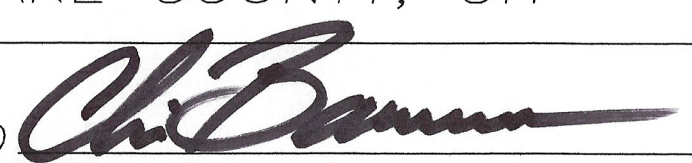
Elevation: 940.52'
Northing: 187102.8950'
Easting: 1855344.1040'

(Coordinates are NAD1983 Ohio State Plane North)

CONSTRUCTION & MATERIAL SPECIFICATIONS					
OHIO DEPARTMENT OF TRANSPORTATION			USDA NATURAL RESOURCES CONSERVATION SERVICE		SUPPLEMENTAL SPECIFICATIONS
DELAWARE COUNTY ENGINEER			CONSTRUCTION		SPECIAL PROVISIONS
202	Tile Removal	326	Clearing & Snagging		
601	Rock Channel Protection	484	Mulching		Tile Connection
611	Pipe Culverts, Sewers, Drains, and Drainage Structures	606	Subsurface Drain		Utility Relocation
614	Maintenance of Traffic	608	Surface Drain		
659	Seeding & Mulching				

FRANKLIN
DRAINAGE IMPROVEMENT PROJECT

DELAWARE COUNTY ENGINEER
DELAWARE COUNTY, OH

APPROVED 
DATE **5-8-24** COUNTY ENGINEER

APPROVED _____
DATE _____ COUNTY COMMISSIONER

APPROVED _____
DATE _____ COUNTY COMMISSIONER

APPROVED _____
DATE _____ COUNTY COMMISSIONER

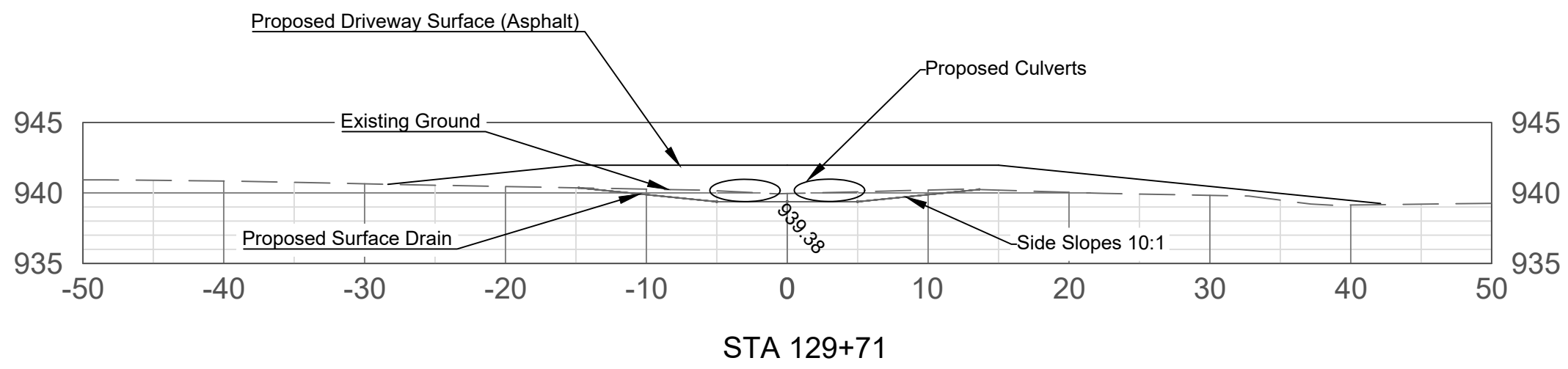
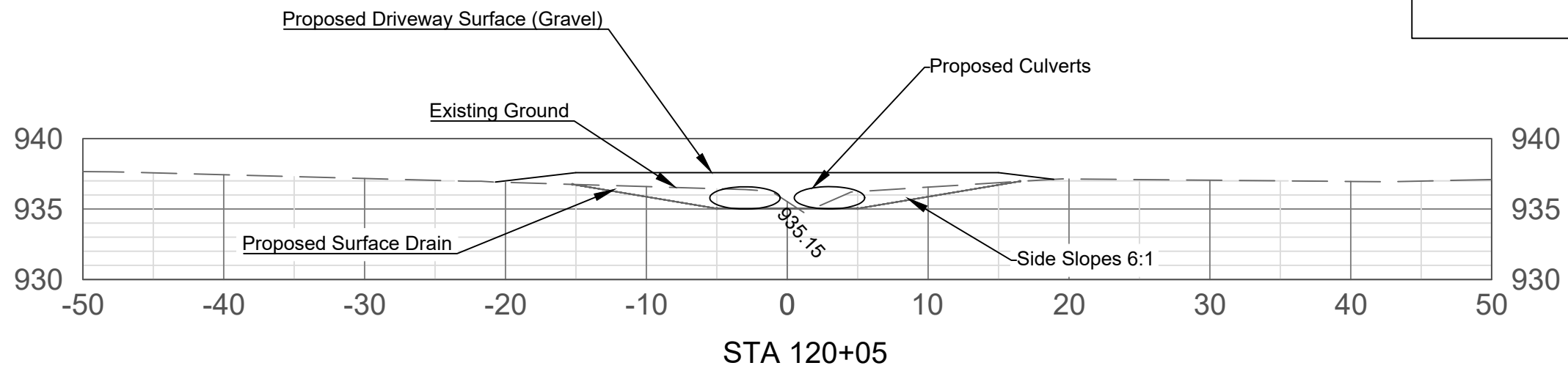
DESIGNED JWA 04/23 C-CHECKED _____
DRAWN JWA 04/23 REVIEWED _____

CONSTRUCTION PROJECT NO. _____

RAILROAD INVOLVEMENT
NONE

FRANKLIN

1
10



Horizontal Scale - 1" = 10'
Vertical Scale - 1" = 10'

CULVERT DESIGN TABLE							
STA Entrance	STA Exit	Entrance Inv.	Exit Inv.	Size	Qty.	Material	Length
129+81	129+61	939.39	939.37	19" x 30" Elliptical	2	Concrete	20'
120+15	119+95	935.11	934.91	19" x 30" Elliptical	2	Concrete	20'

Materials

1. Conduit - corrugated HDPE plastic smooth lined pipe (double-wall) conforming to ODOT CMS 707.33.
2. Granular bedding and backfill - coarse aggregate meeting AASHTO/ODOT #57 or #67 size or crushed limestone aggregate meeting ODOT CMS Item 304 or 411.

Excavation

The existing culvert shall be removed in its entirety, and included in this item for payment. The trench for the proposed culvert shall be excavated to a minimum width of 2 feet greater than the outside span of the culvert. The trench shall be excavated a minimum of 6 inches below the proposed elevation of the bottom of the culvert.

Bedding

Bedding for the culvert shall be 6 inches of granular material, and shall extend to the limits of the trench.

Laying Culvert

Except where otherwise directed by the Engineer for special conditions, the culvert shall be laid starting at the outlet end. For multiple barrel culverts, the minimum distance between the outside of adjacent barrels shall be 24'

Joining Culvert Sections

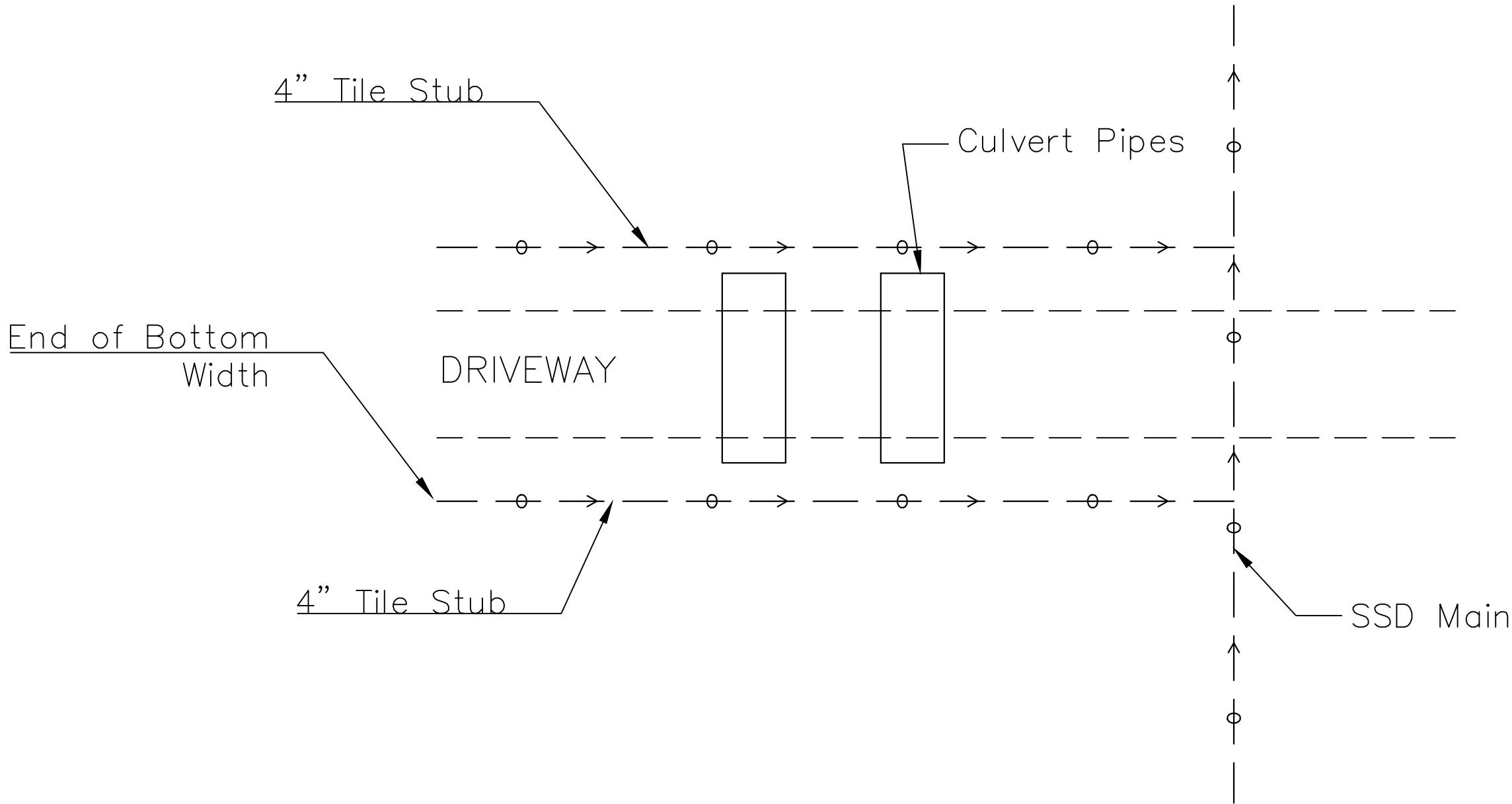
The method of joining culvert sections shall be such that the ends are fully entered and the inner surfaces are reasonably flush and even. Bands or gasket joints shall be used according to manufacturer's recommendations. Conduit shall be inspected before any backfill is placed. Any sections found to be out of alignment, unduly settled, or damaged shall be taken up and relaid or replaced.

Backfilling

Granular backfill shall be placed in lifts not to exceed 8 inches up the sides of the culvert. Backfill shall be carefully compacted under the haunches of the pipe using mechanical compactors, spud bars or any other means approved by the Engineer.

When using #57 or #67 granular backfill, the material shall be compacted to approximately 85% of the original thickness. When using stabilized crushed aggregate, water shall be added as necessary to maintain optimum moisture content. Compaction shall be done by mechanical tampers, jumping-jacks, hand tools, or any other means approved by the Engineer, and shall be considered sufficient when 98-100 percent of AASHTO T 99 (Standard Proctor) has been achieved or the Engineer approves the backfill.

NOTE: Replace drive with like material (i.e. gravel, concrete, asphalt, etc.)

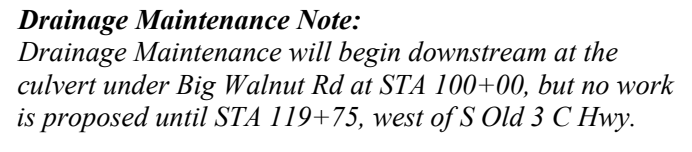


NOTE:

- Tile Stubs to be connected to main using manufactured connections as shown on Sheet 2 (TYPICAL SUBSURFACE DRAIN LATERAL CONNECTION DETAILS)
- Tile Stub trenches to bedded in #57s with 6" of cover and filled to grade with #57s or #1-2 at the direction of construction inspector.

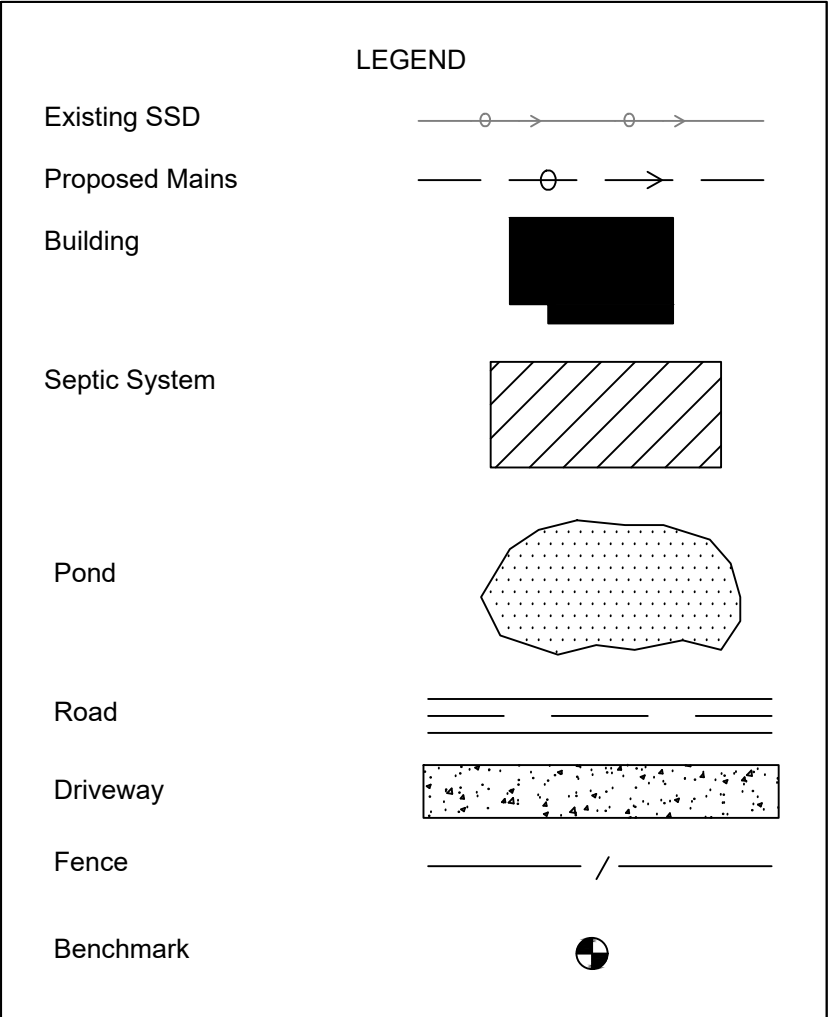
**FRANKLIN
DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS**

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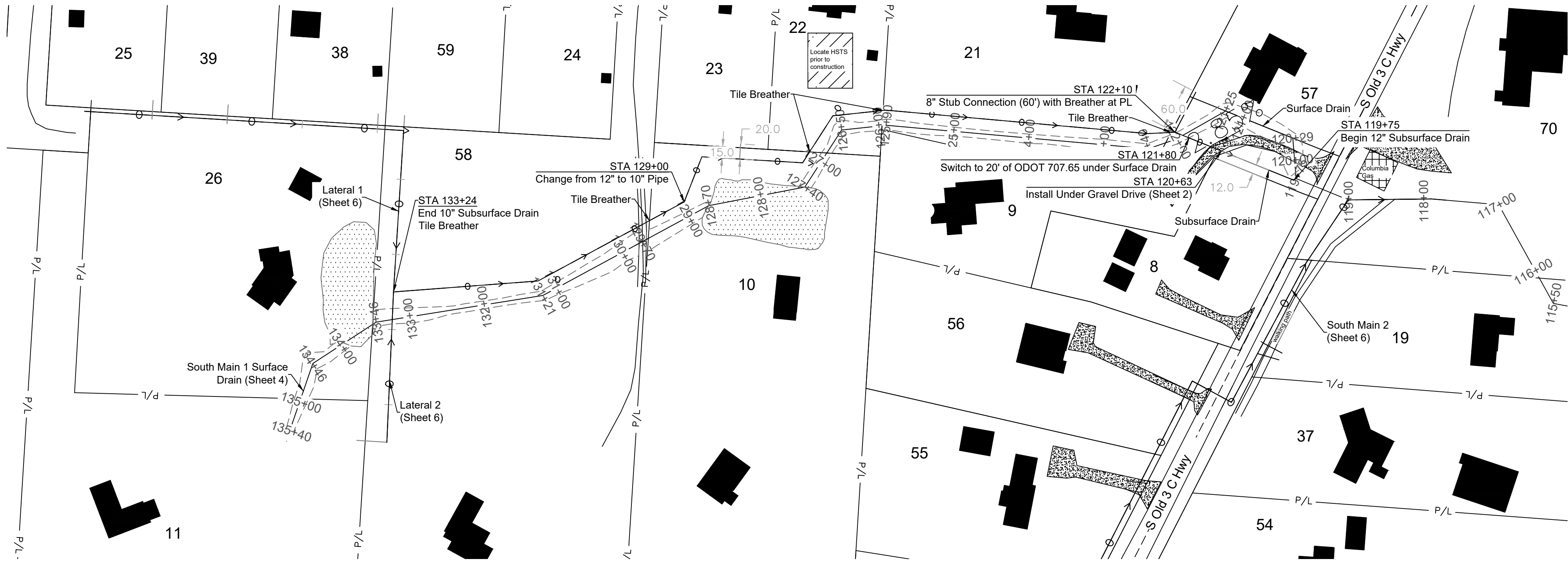


Franklin South Main 1 Surface Drain			
ESTIMATED QUANTITIES			
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ODOT 601	Culvert/Pond Inlet and Outlet Protection - Riprap	3	Each
ODOT 659	Seeding & Mulching	2,500	Square yards

Map ID	Parcel #	Owner	Address
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7	31724005024000	FICHERIA JOHN PAUL RITA M	5280 S OLD 3C HWY
8	31724005027000	RAMMELSBURG DENNIS H DINAH R	5172 S OLD 3C HWY
9	31724005028002	RAMMELSBURG JOSEPH K	5140 S OLD 3C HWY
10	31724005032000	DAVIS LORNA L	7380 BIG WALNUT RD
11	31724005039000	MATHIAS JAMES G & NANCY J	7172 BIG WALNUT RD
13	31724003004000	BD TWP TRUSTEES GENOA TWP	BIG WALNUT RD
15	31724003012000	NAGRA ARJUN P & SARA B	7311 BIG WALNUT RD
16	31724003014000	SANFILIPPO REGINA L	7363 BIG WALNUT RD
17	31724003016000	MULLINS HAL E TRUSTEE	7421 BIG WALNUT RD
18	31724003020000	DRAYER RONALD N & ETHEL E	5044 S OLD 3C HWY
19	31724005010000	GOODPASTER RALPH C	5201 S OLD 3C HWY
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22	31724005030000	NG FRIEDA JUNE	7410 BIG WALNUT RD
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27	31724005041000	XENAKIS STACY MARIE	7170 BIG WALNUT RD
28	31724005042000	ARGOE NANCY	7160 BIG WALNUT RD
30	31724003010000	ROSHON TED & MARY	7227 BIG WALNUT RD
31	31724003015000	GREEN F EUGENE & PATRICIA L	7381 BIG WALNUT RD
33	31724003018001	EVANS HAROLD M HELEN JEAN	BIG WALNUT RD
34	31724003026000	GENOA TOWNSHIP TRUSTEES	4848 S OLD 3C HWY
37	31724005011000	DAMRON DUSTIN E & LESLIE N	5223 S OLD 3C HWY
38	31724005036000	BERGER KAI P & AMY E	7270 BIG WALNUT RD
39	31724005037000	SMITH MICHAEL RAY & COLETTE ANN	7240 BIG WALNUT RD
40	31724005041001	THOMPSON SHANNON L EILEEN M	7166 BIG WALNUT RD
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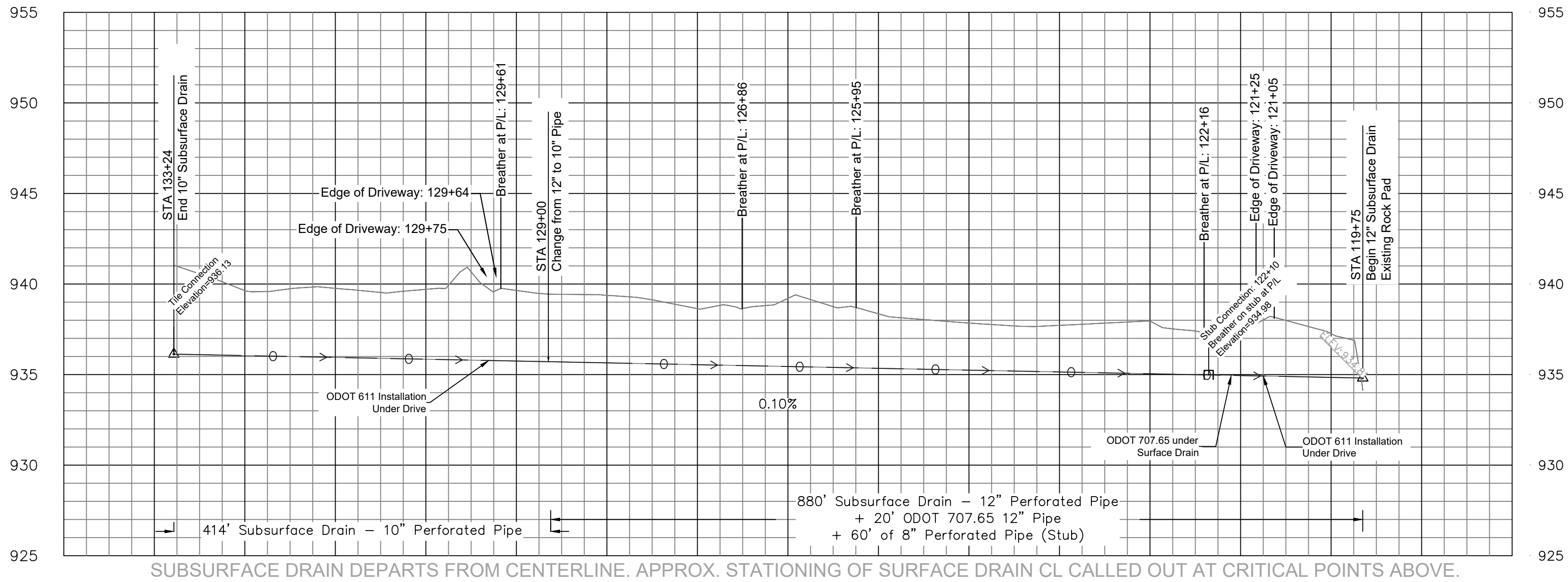


PLAN VIEW



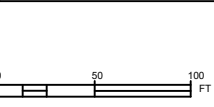
NOTE: Subsurface Drain follows the same general path as the Surface Drain (Sheet 4), but departs where necessary. The same centerline will be used, but departures are depicted in plan view with dimensions called out where necessary.

SOUTH MAIN 1 SUBSURFACE DRAIN



Franklin South Main 1 Subsurface Drain

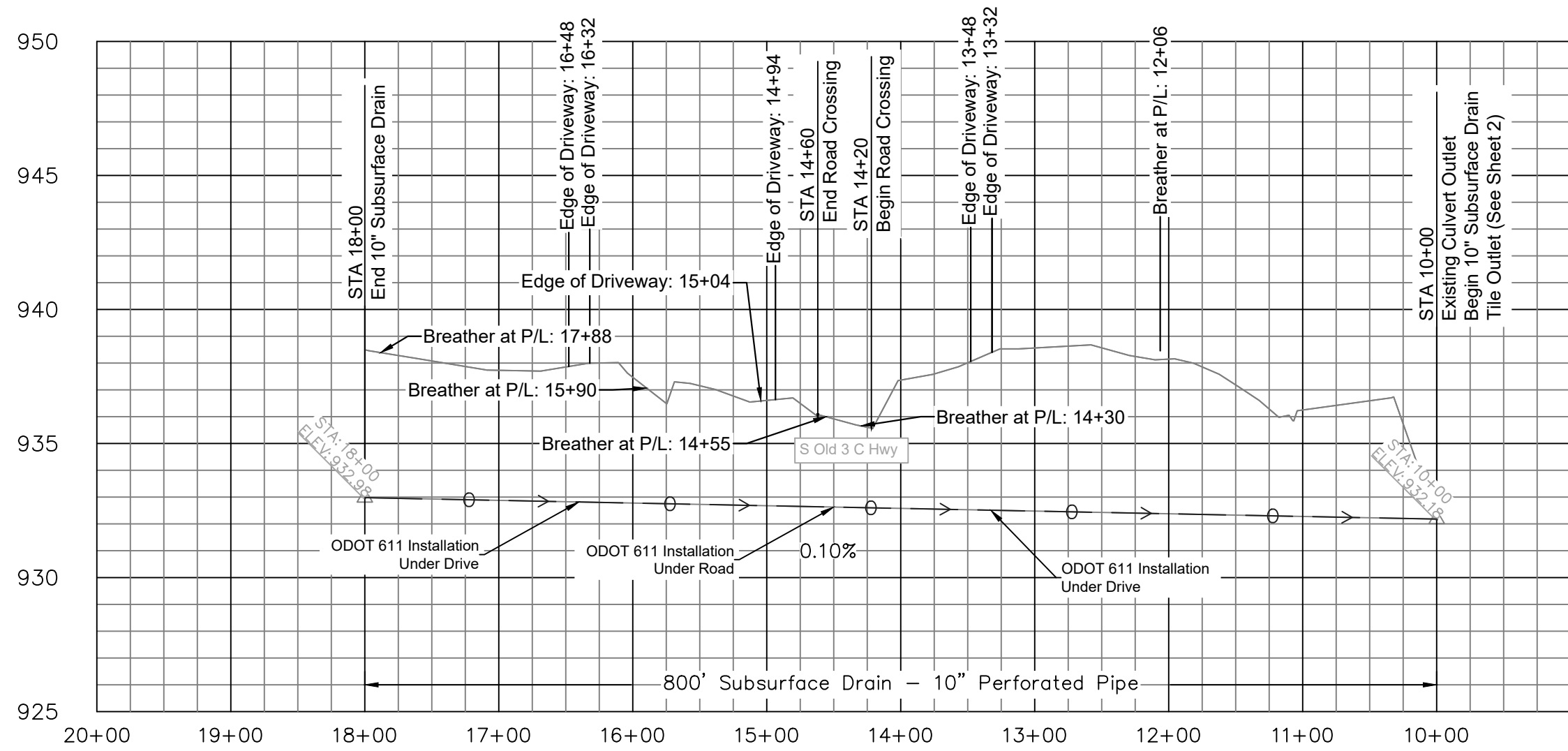
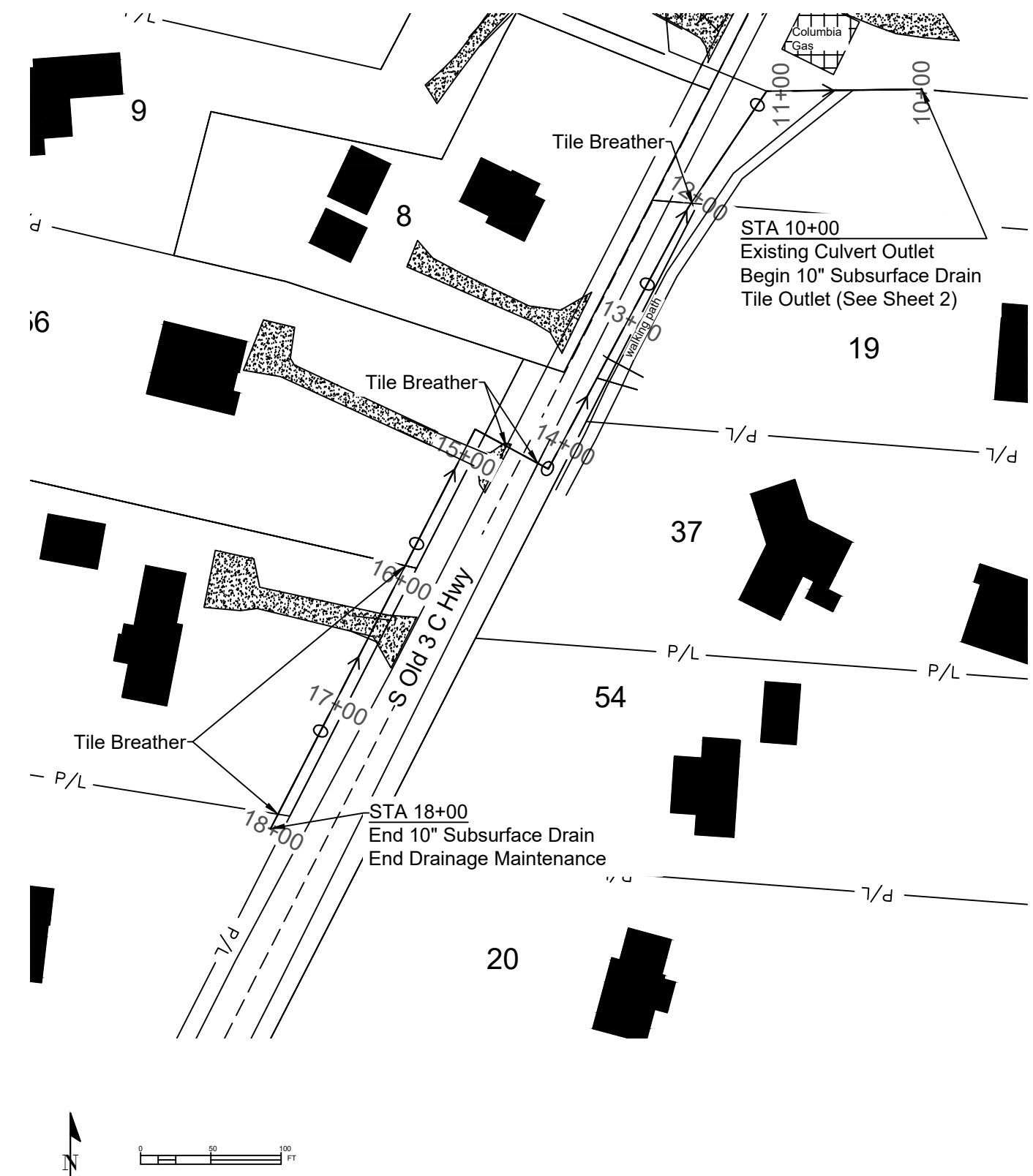
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NRCS 606	Tile Main Breathers	6	Each
ODOT 202	Tile Destruction in Place	1,315	Lineal Feet
ODOT 659	Seeding & Mulching	400	Square yards
SPECIAL	Utility Relocation	1	Lump



LEGEND	
Existing SSD	
Proposed Mains	
Building	
Septic System	
Pond	
Road	
Driveway	
Fence	
Benchmark	

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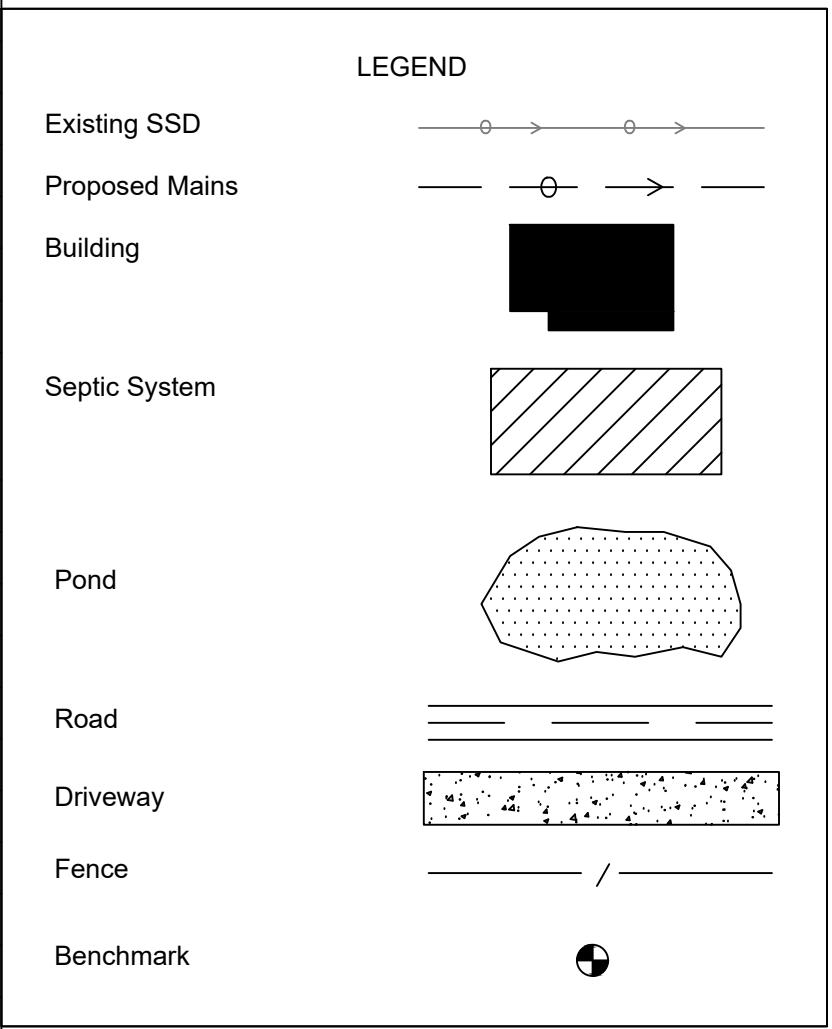
SOUTH MAIN 2 SUBSURFACE DRAIN



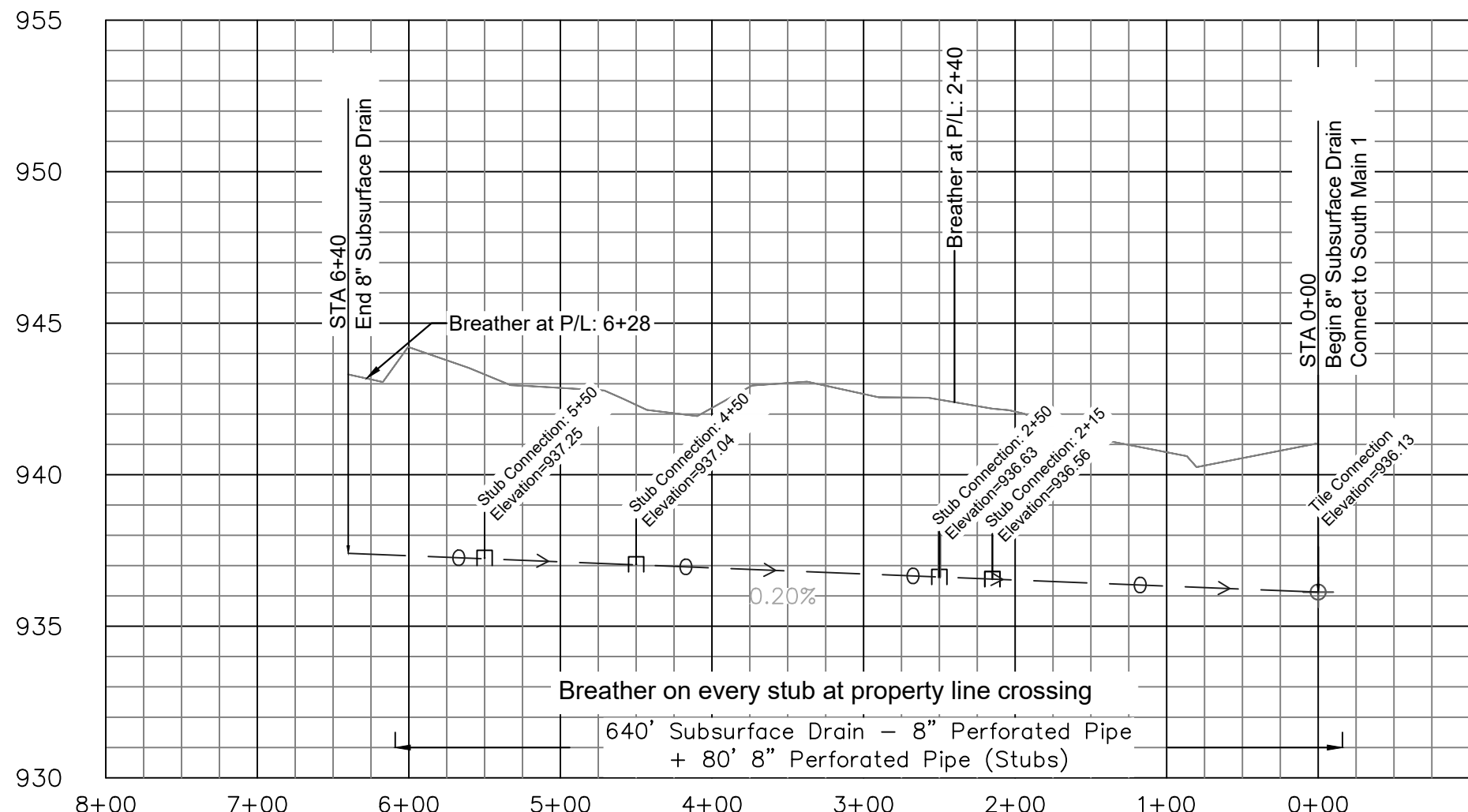
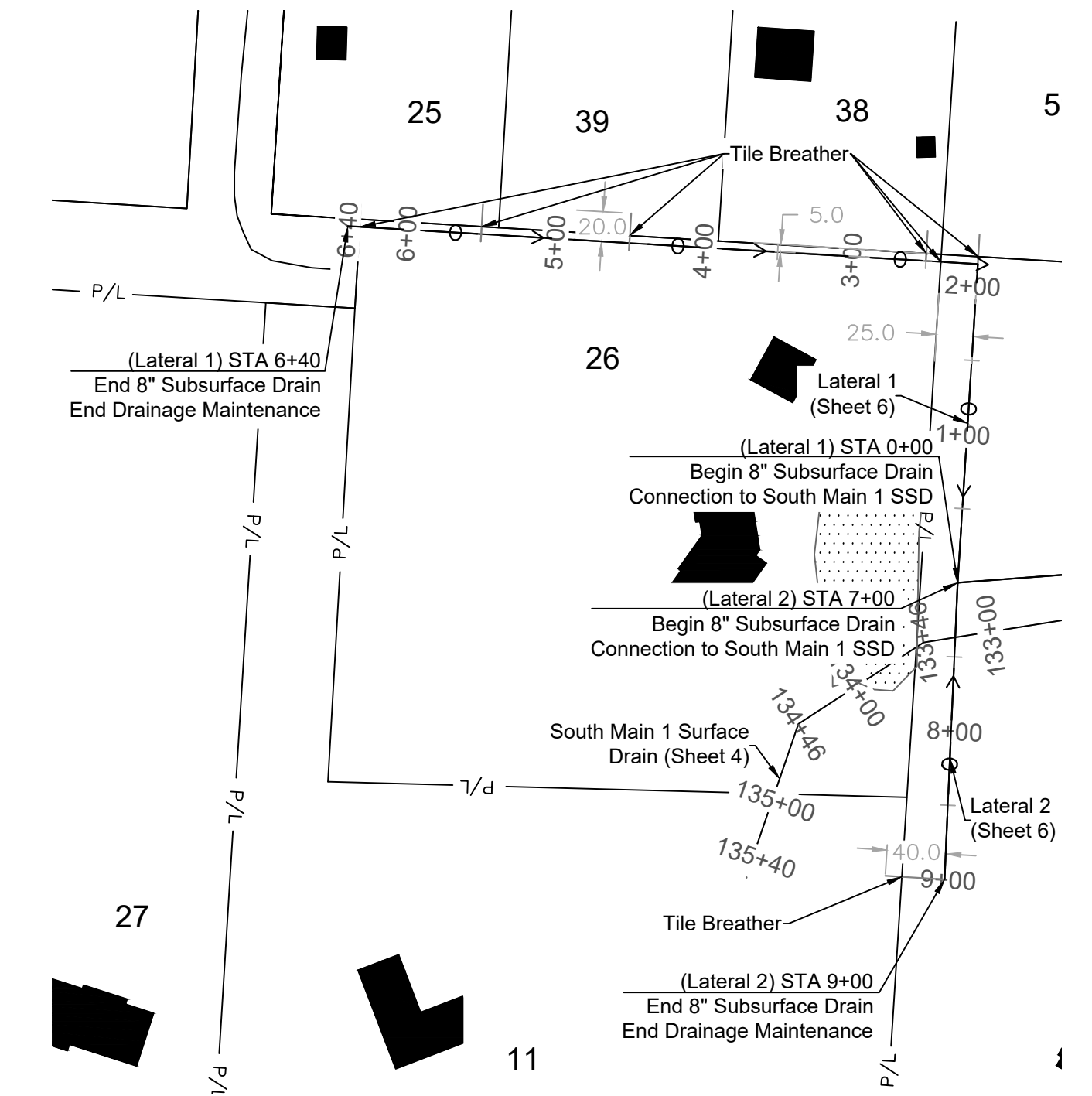
Franklin South Main 2

Franklin South Main 2 Subsurface Drain			
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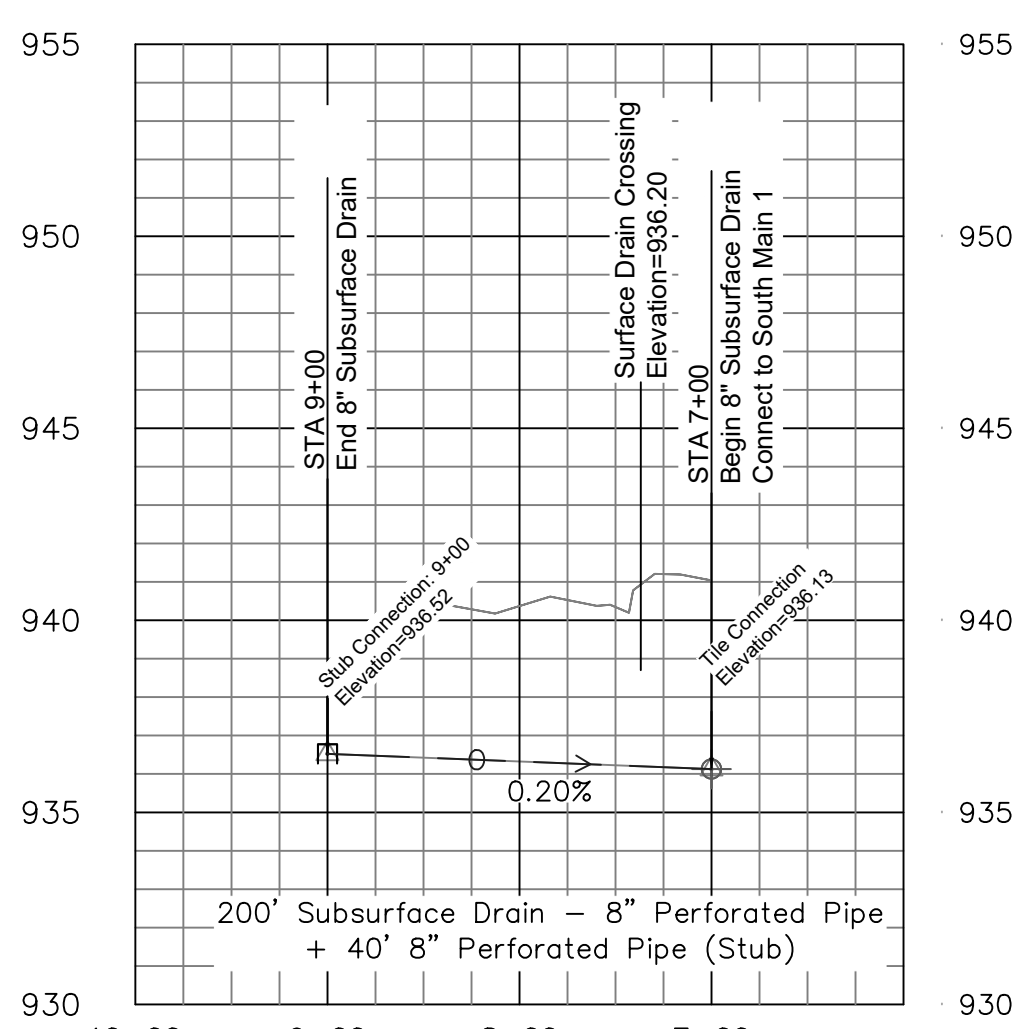
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SOUTH MAIN 1 LATERALS 1 & 2



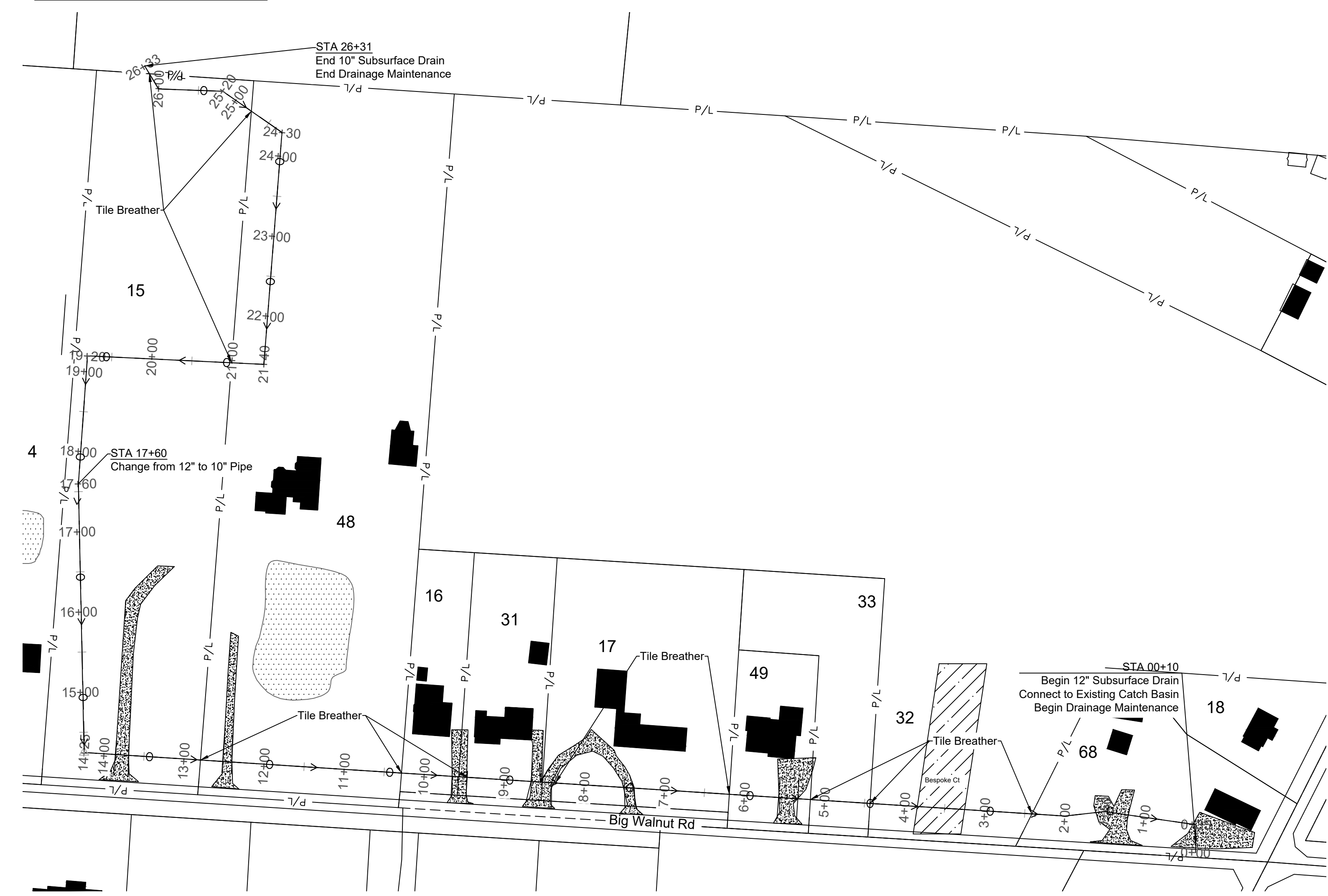
Franklin South Lateral 1



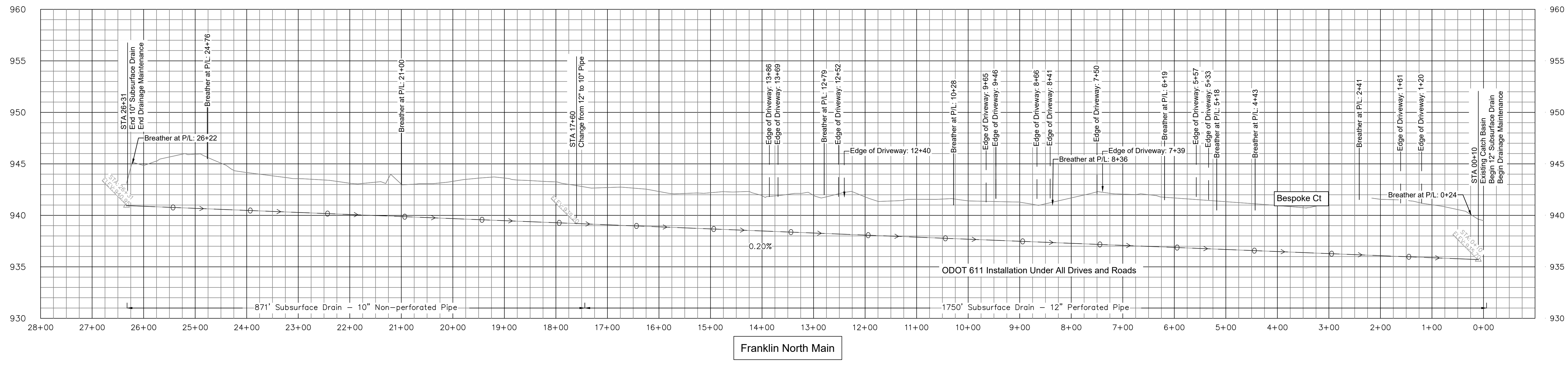
Franklin South Lateral 2

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24	31724005034000	SEGER CARL H LOIS A	7340 BIG WALNUT RD
25	31724005038000	JOYCE BRYAN & AMY ELIZABETH	7216 BIG WALNUT RD
26	31724005040000	DEMATTEIS CHARLES B DONNA L TRUSTEES	7176 BIG WALNUT RD
27	31724005041000	XENAKIS STACY MARIE	7170 BIG WALNUT RD
28	31724005042000	ARGOE NANCY	7160 BIG WALNUT RD
30	31724003010000	ROSHON TED & MARY	7227 BIG WALNUT RD
31	31724003015000	GREEN F EUGENE & PATRICIA L	7381 BIG WALNUT RD
33	31724003018001	EVANS HAROLD M HELEN JEAN	BIG WALNUT RD
34	31724003026000	GENOA TOWNSHIP TRUSTEES	4848 S OLD 3C HWY
37	31724005011000	DAMRON DUSTIN E & LESLIE N	5223 S OLD 3C HWY
38	31724005036000	BERGER KAI P & AMY E	7270 BIG WALNUT RD
39	31724005037000	SMITH MICHAEL RAY & COLETTE ANN	7240 BIG WALNUT RD
40	31724005041001	THOMPSON SHANNON L EILEEN M	7166 BIG WALNUT RD
48	31724003013000	MCGARVEY HOWARD M TRUSTEE	7351 BIG WALNUT RD
49	31724003017000	EVANS HAROLD M HELEN J	7453 BIG WALNUT RD
54	31724005012000	BENNETT JANET I K TRUSTEE	5257 S OLD 3C HWY
55	31724005025000	BROOKER DONALD E	5260 S OLD 3C HWY
56	31724005026000	MACKEY DAVID J & MELISSA A	5220 S OLD 3C HWY
57	31724005028000	CONKLIN TRACEY L & RUSSELL D JR	5122 S OLD 3C HWY
58	31724005033000	URBANSKI PETER A & BEATA	7370 BIG WALNUT RD
59	31724005035000	CLARKE EVA D	7300 BIG WALNUT RD
60	31724005043000	ESTEP RICHARD A	7130 BIG WALNUT RD
61	31724005045000	ARMBRUST KENNETH B SUSAN M	7060 BIG WALNUT RD
68	31724003019000	M & W GENOA PROPERTY LLC	5064 S OLD 3C HWY
70	31724005009000	BOARD OF TOWNSHIP TRUSTEES OF GENOA TWP	5111 S OLD 3C HWY

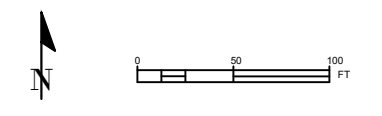
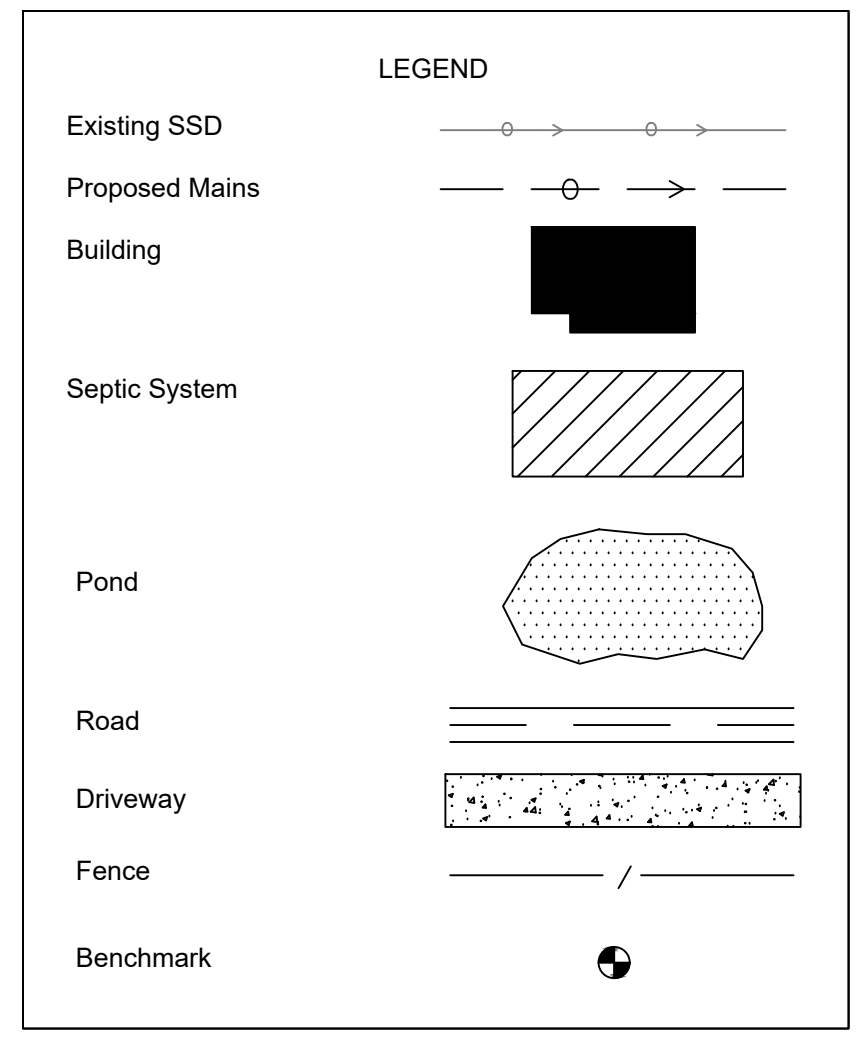
PLAN VIEW



NORTH MAIN SUBSURFACE DRAIN



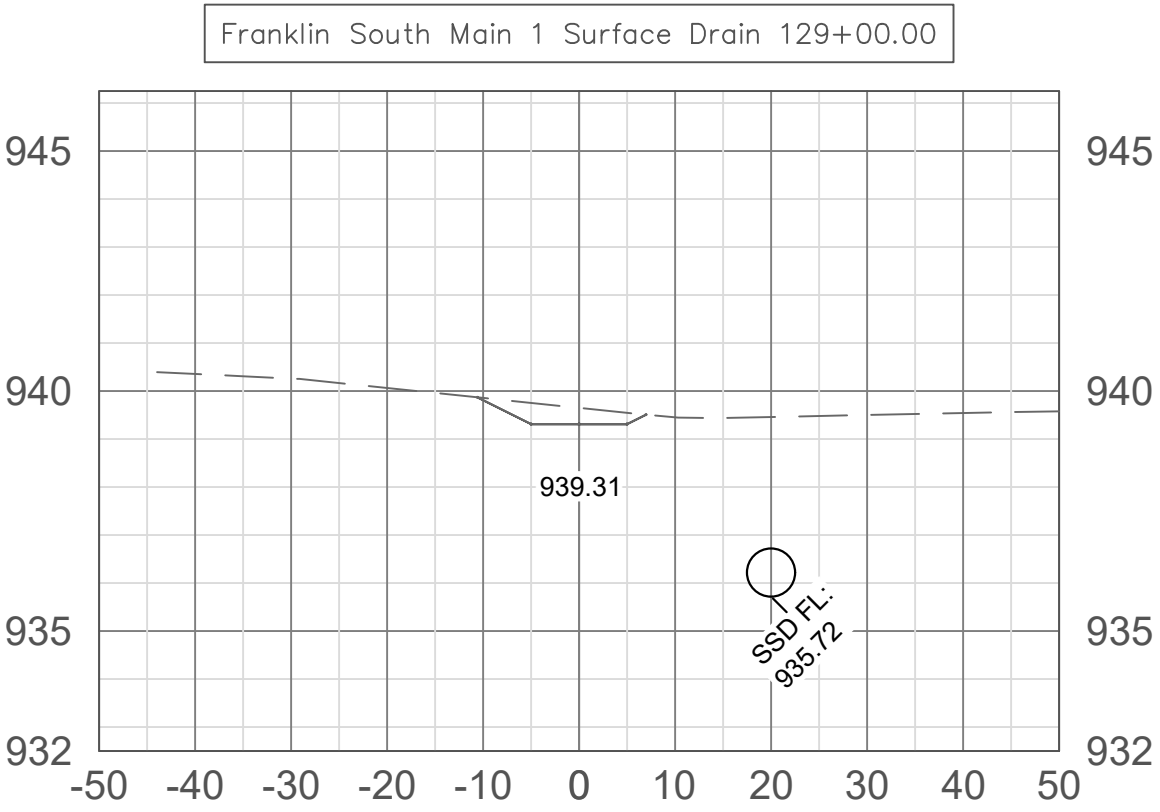
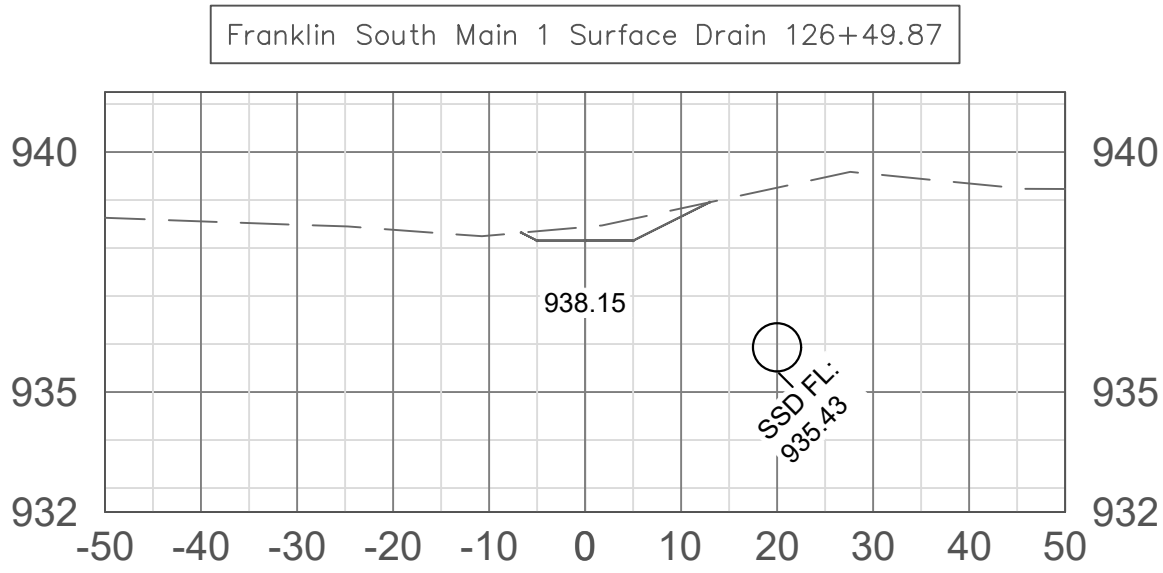
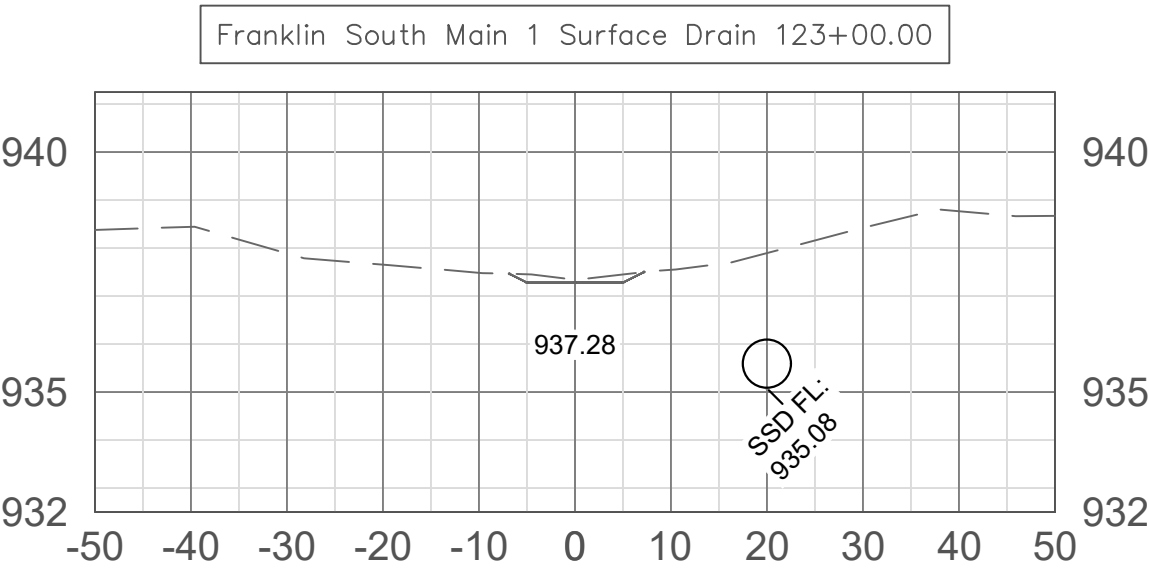
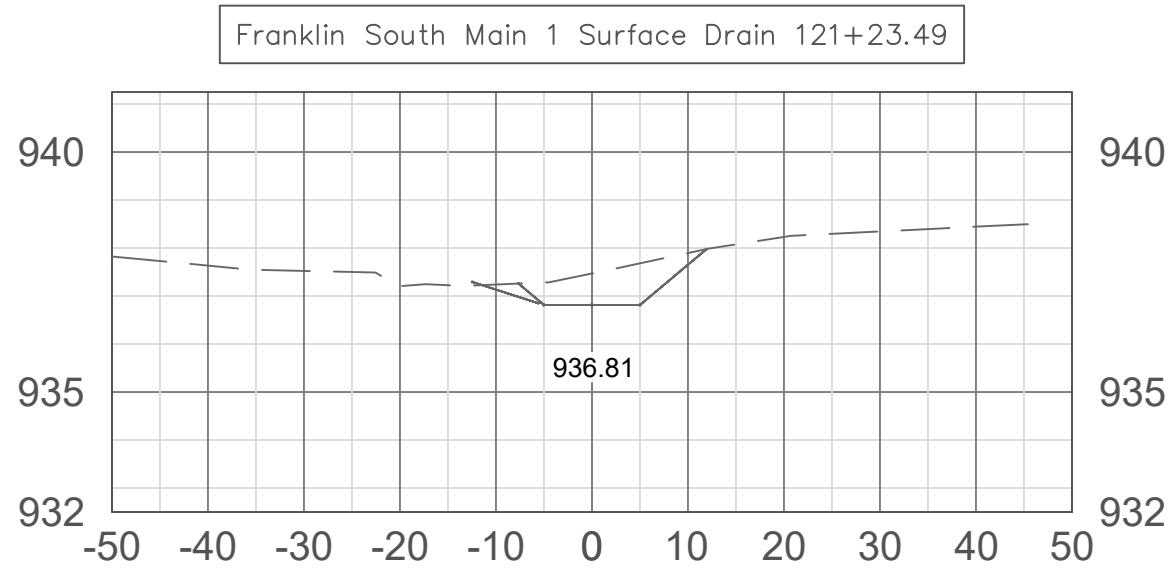
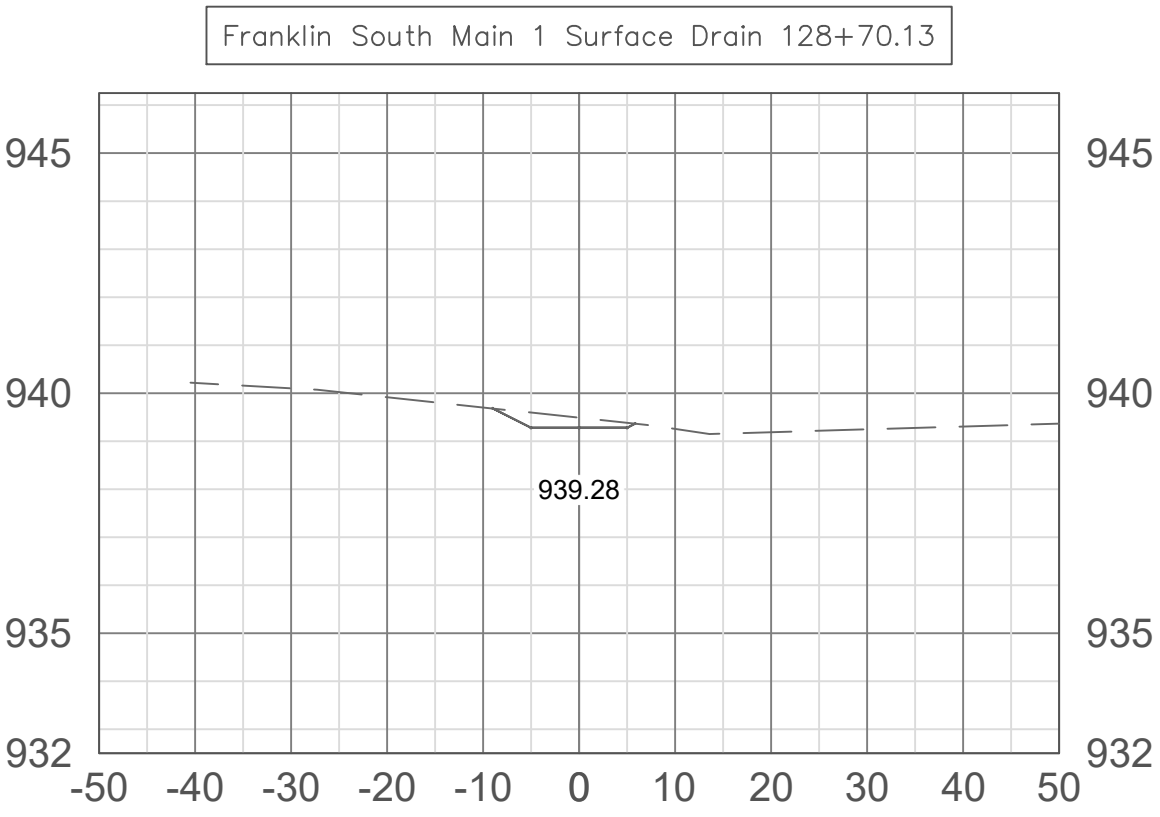
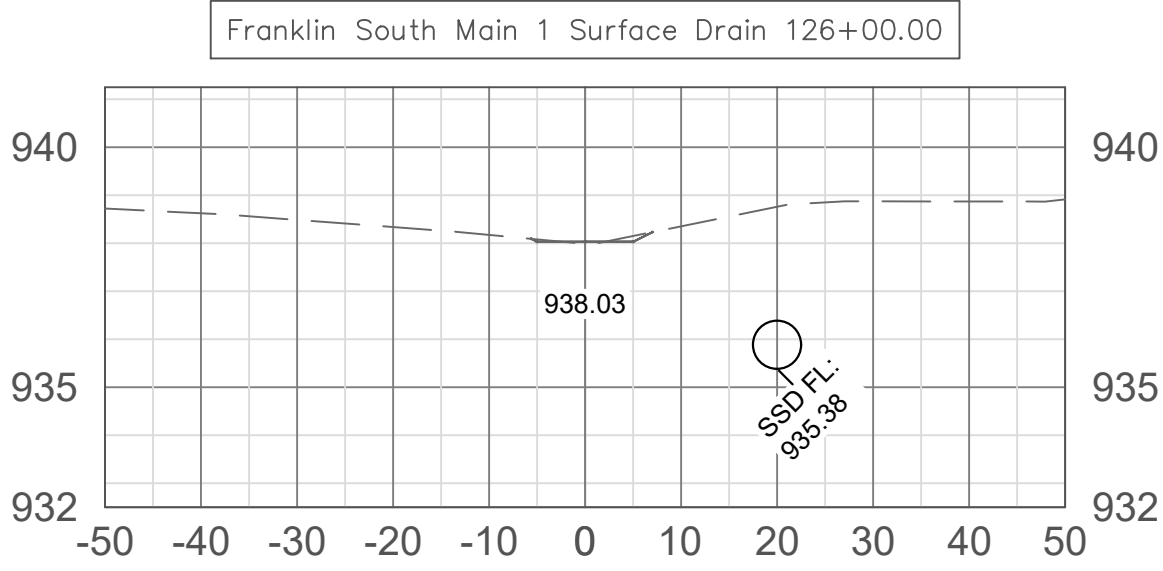
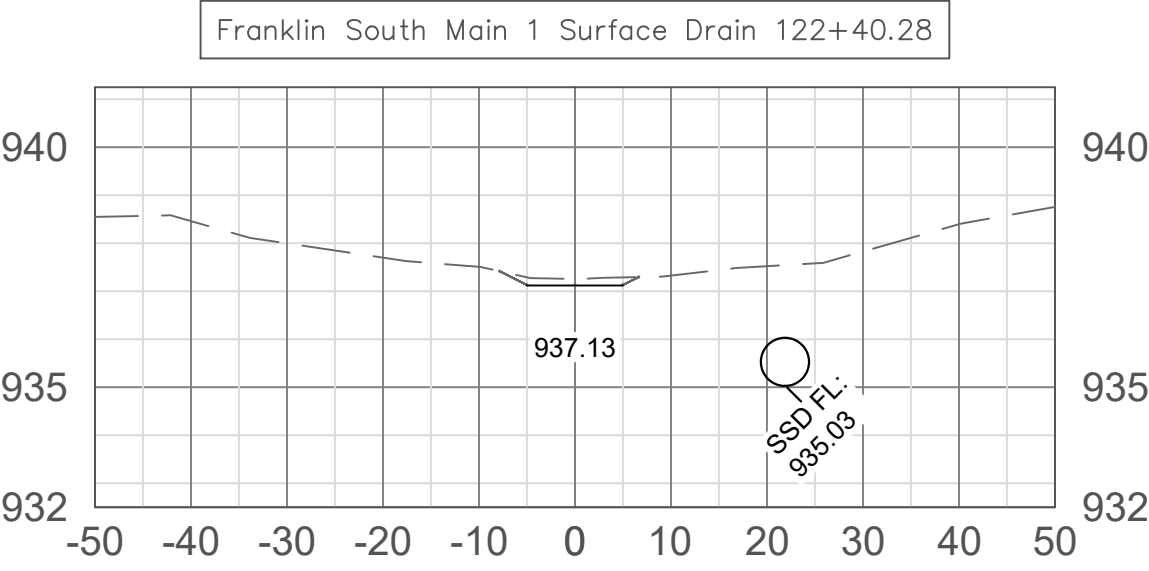
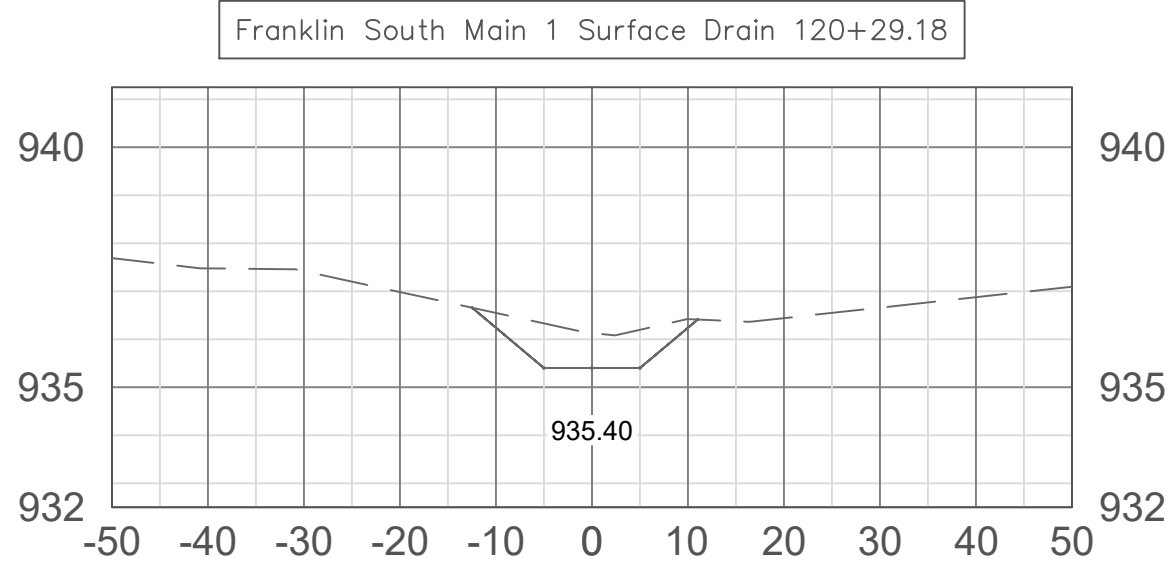
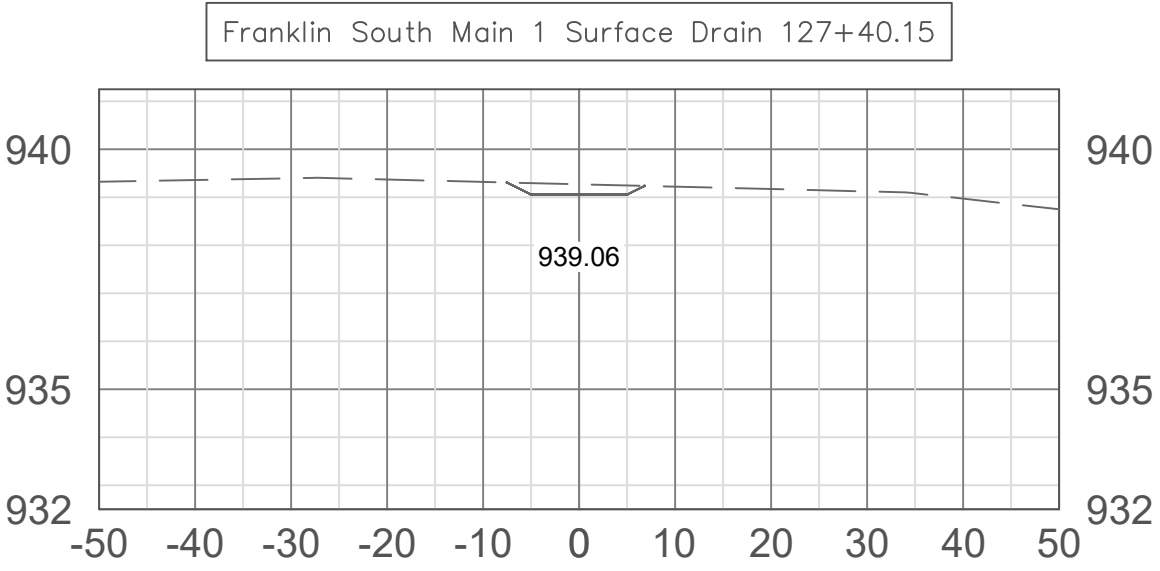
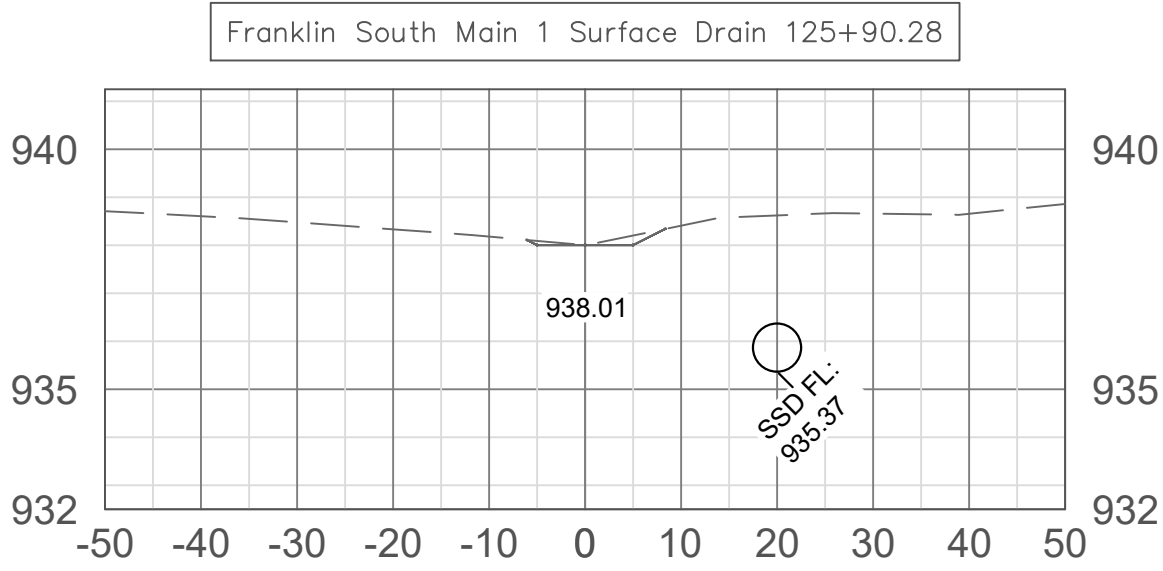
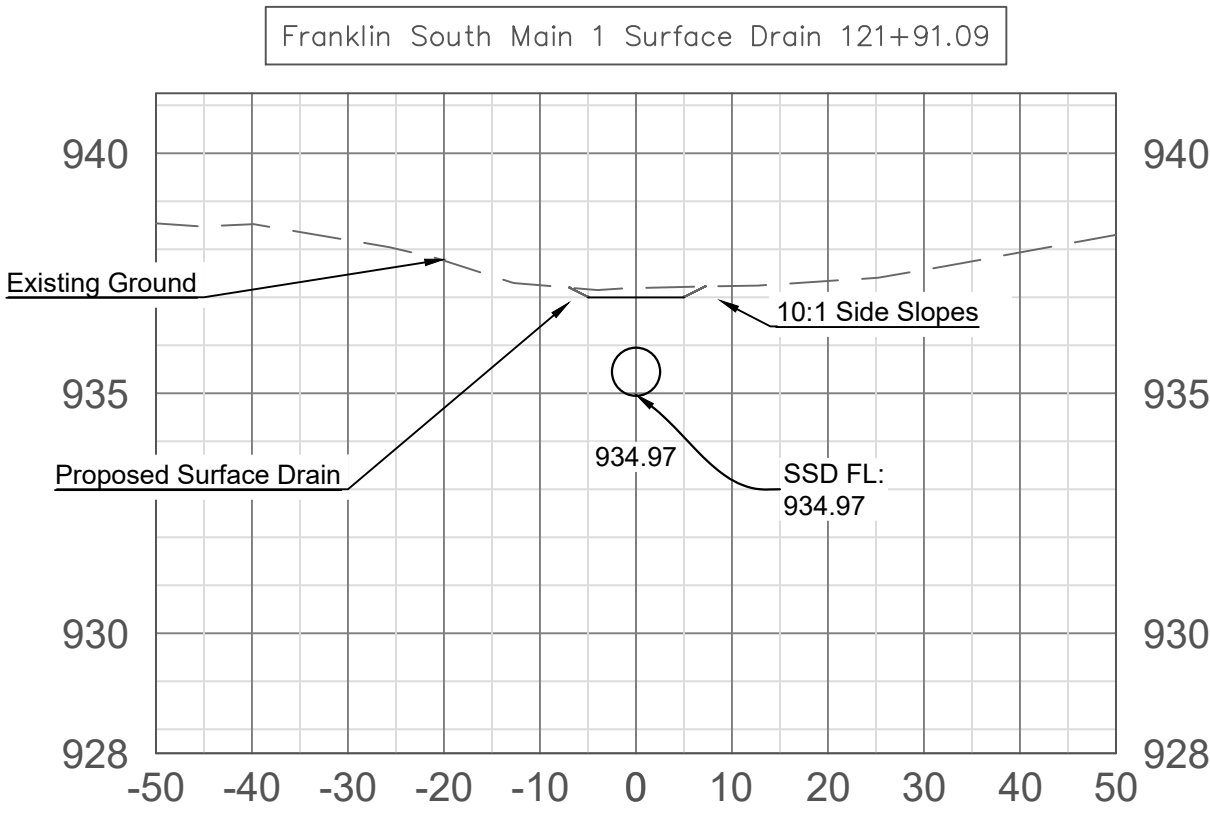
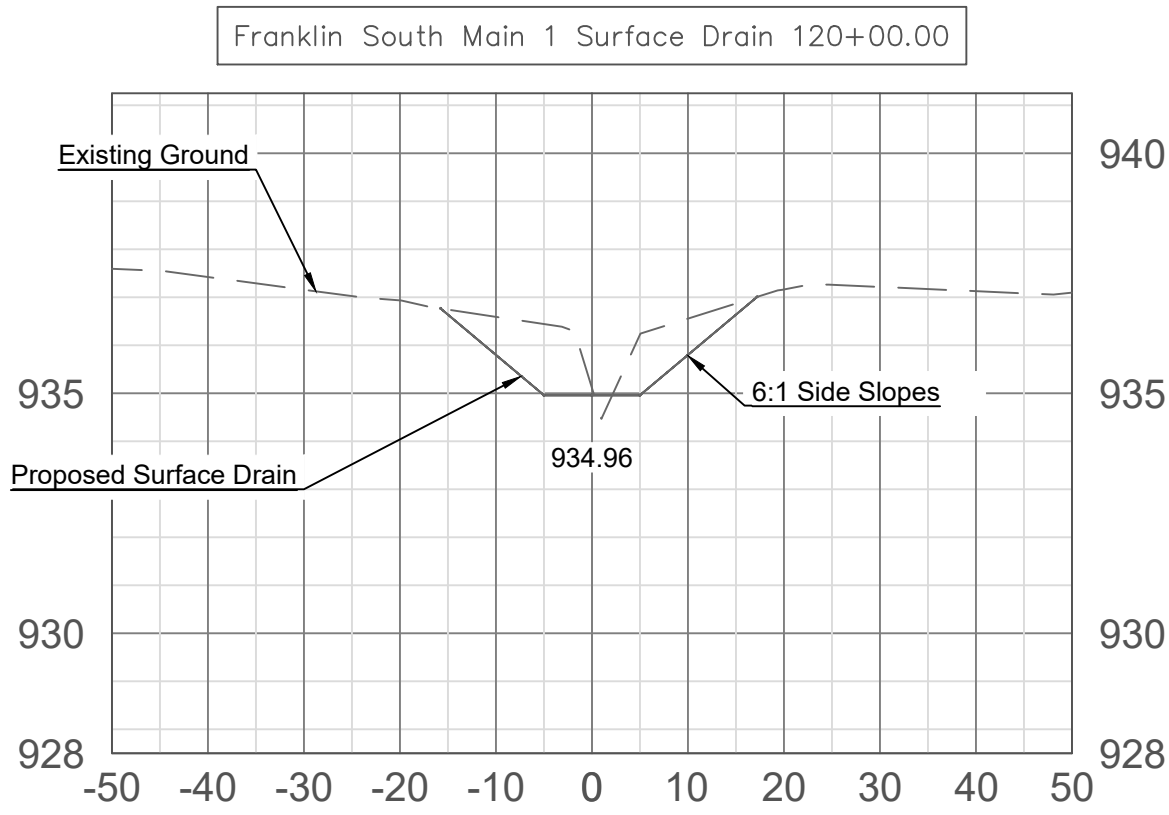
Franklin North Subsurface Drain			
ESTIMATED QUANTITIES			
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	1	Lump
NRCS 606	10" Pipe, Non-Perforated	871	Lineal Feet
NRCS 606	12" Pipe, Perforated	1,500	Lineal Feet
ODOT 611	12" Pipe (707.65), Type B Installation, Paved Road	40	Lineal Feet
ODOT 611	12" Pipe (707.33), Type B Installation, Paved Driveway	150	Lineal Feet
ODOT 611	12" Pipe (707.33), Type B Installation, Gravel Driveway	60	Lineal Feet
NRCS 606	Tile Main Breathers	11	Each
ODOT 659	Seeding & Mulching	3,000	Square yards
ODOT 611	Tile Connection to Precast Drainage Structure	1	Lump
SPECIAL	Utility Relocation	1	Lump



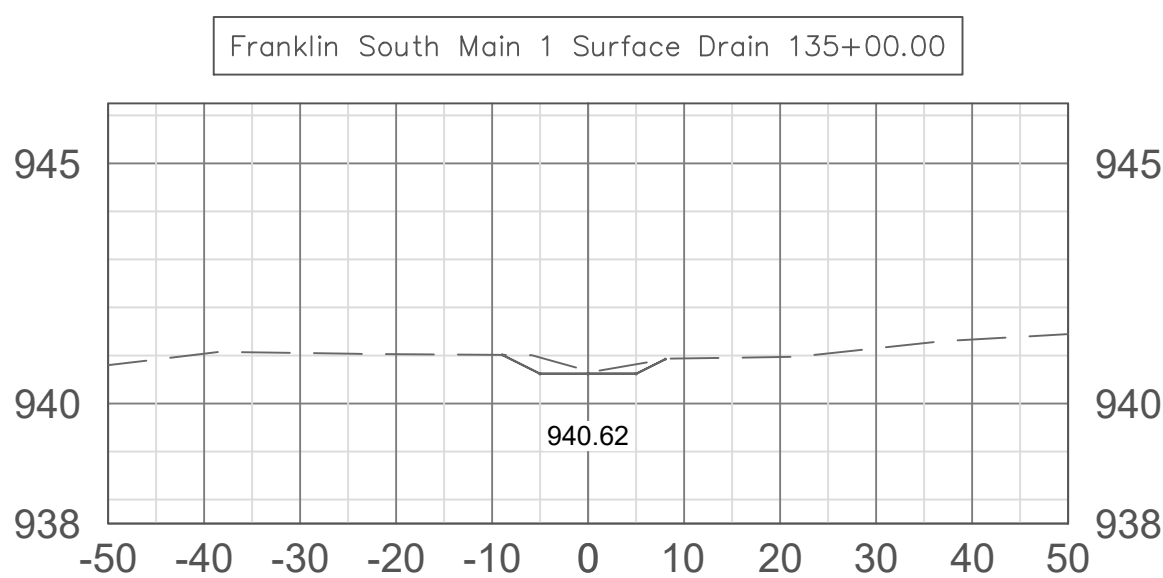
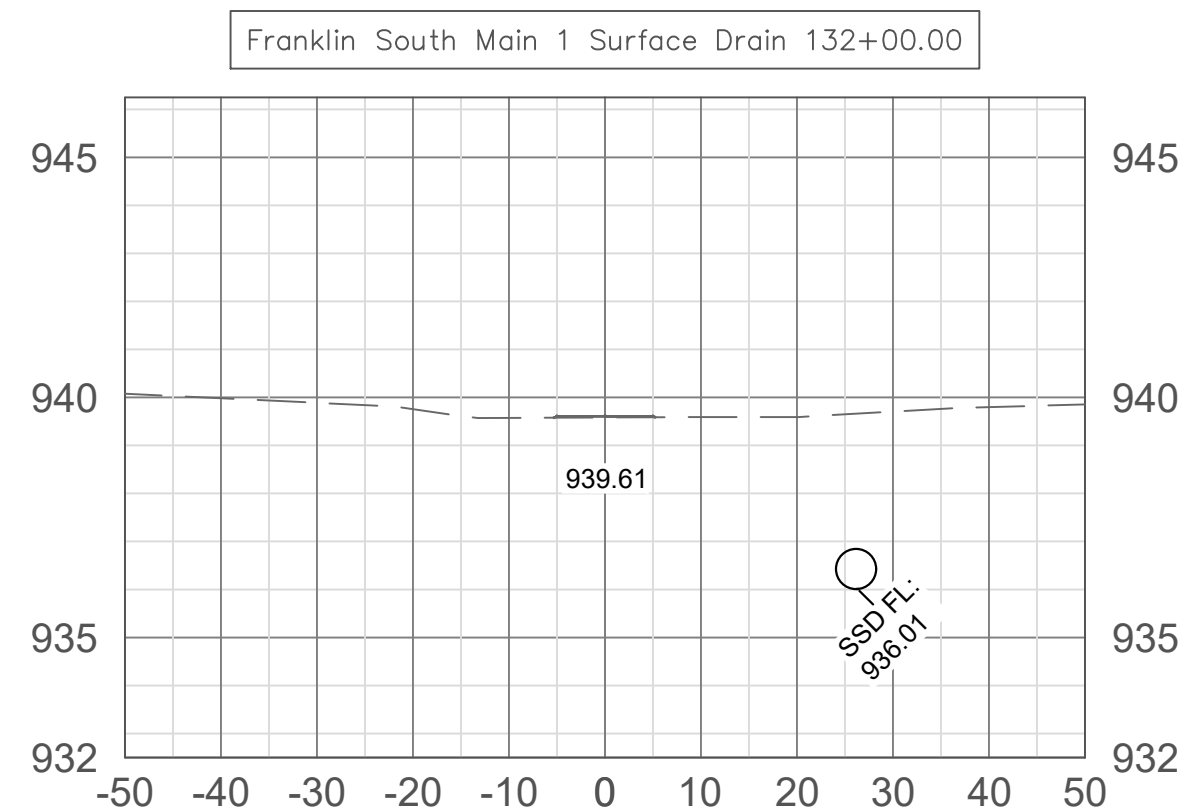
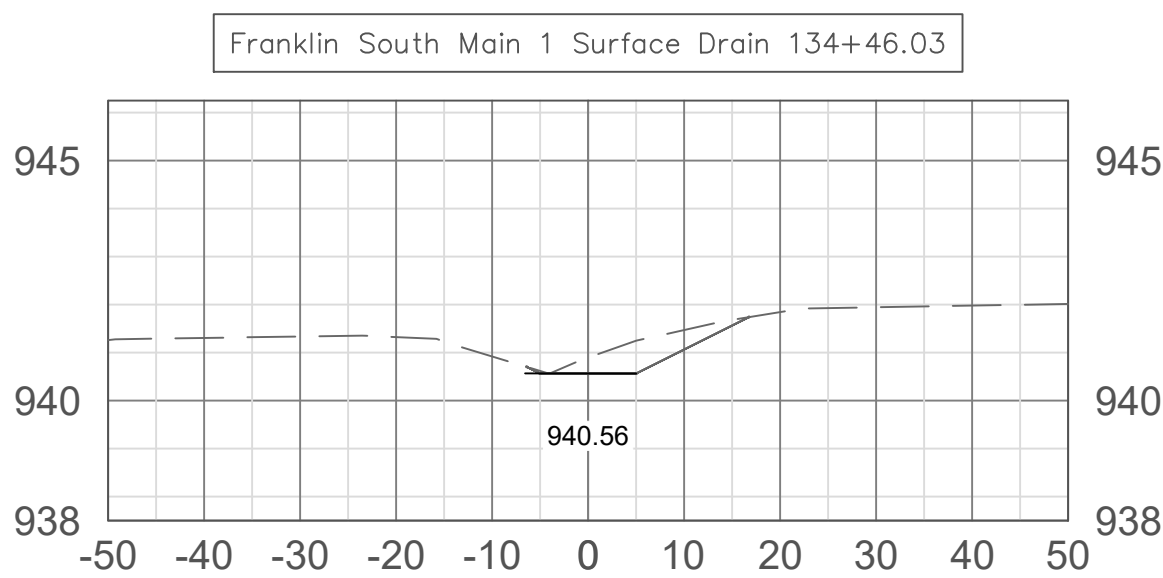
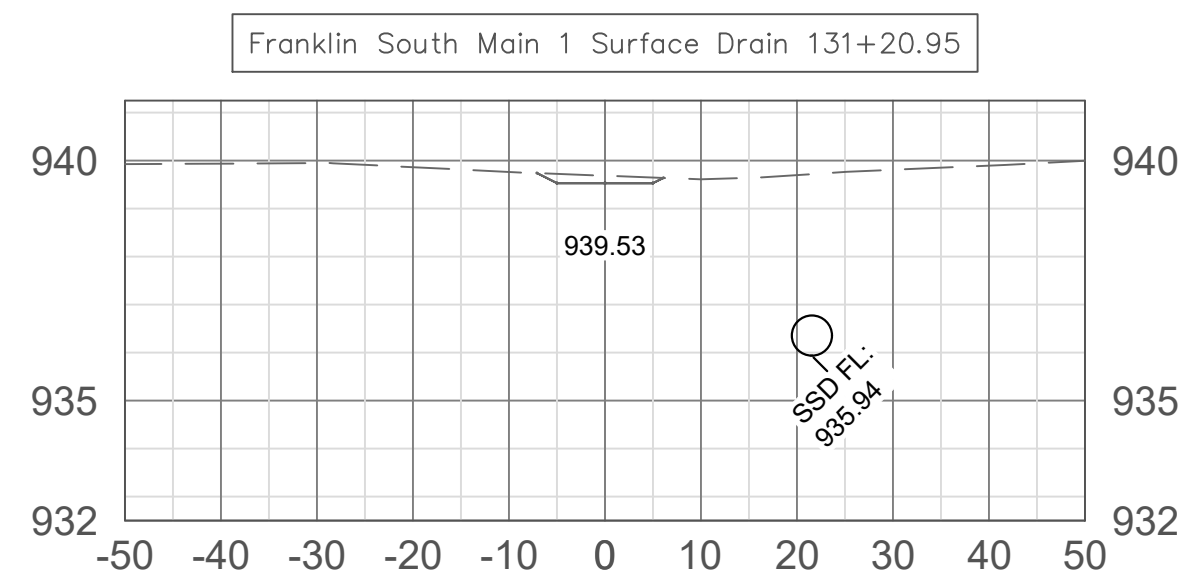
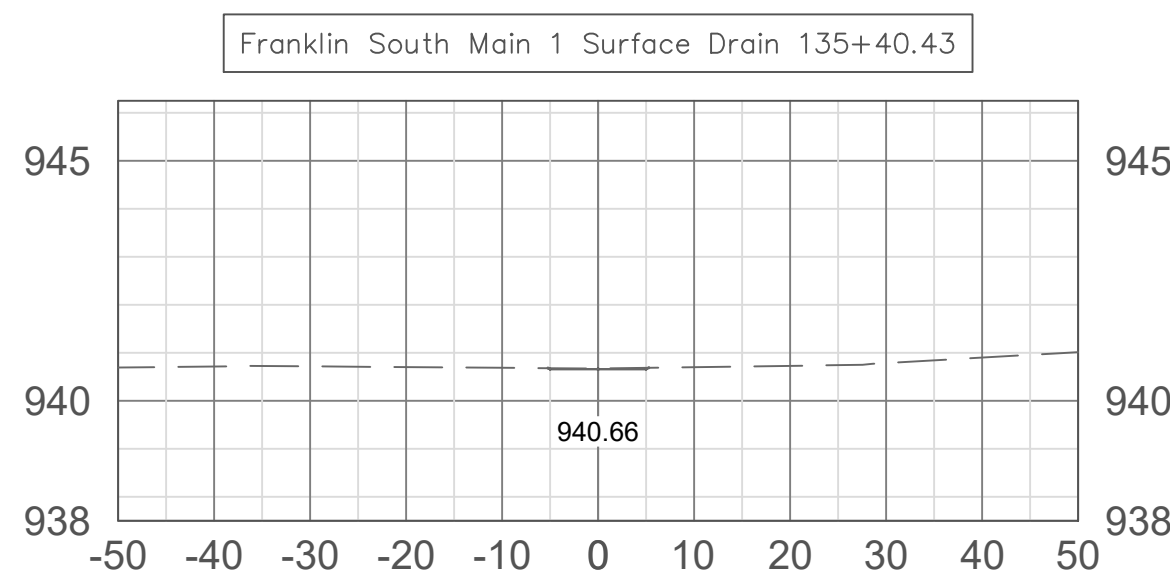
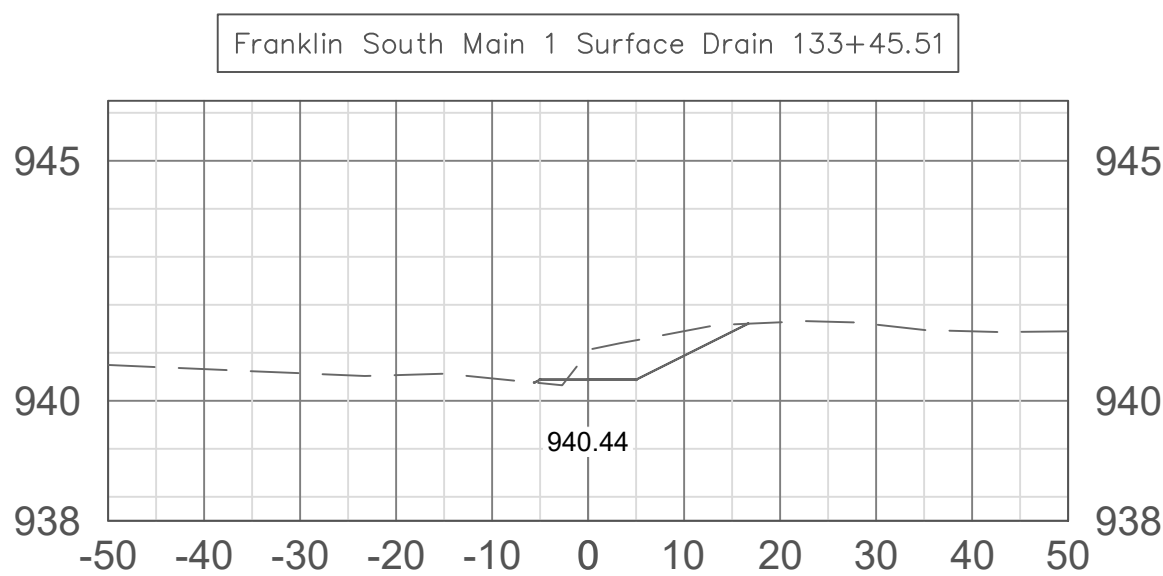
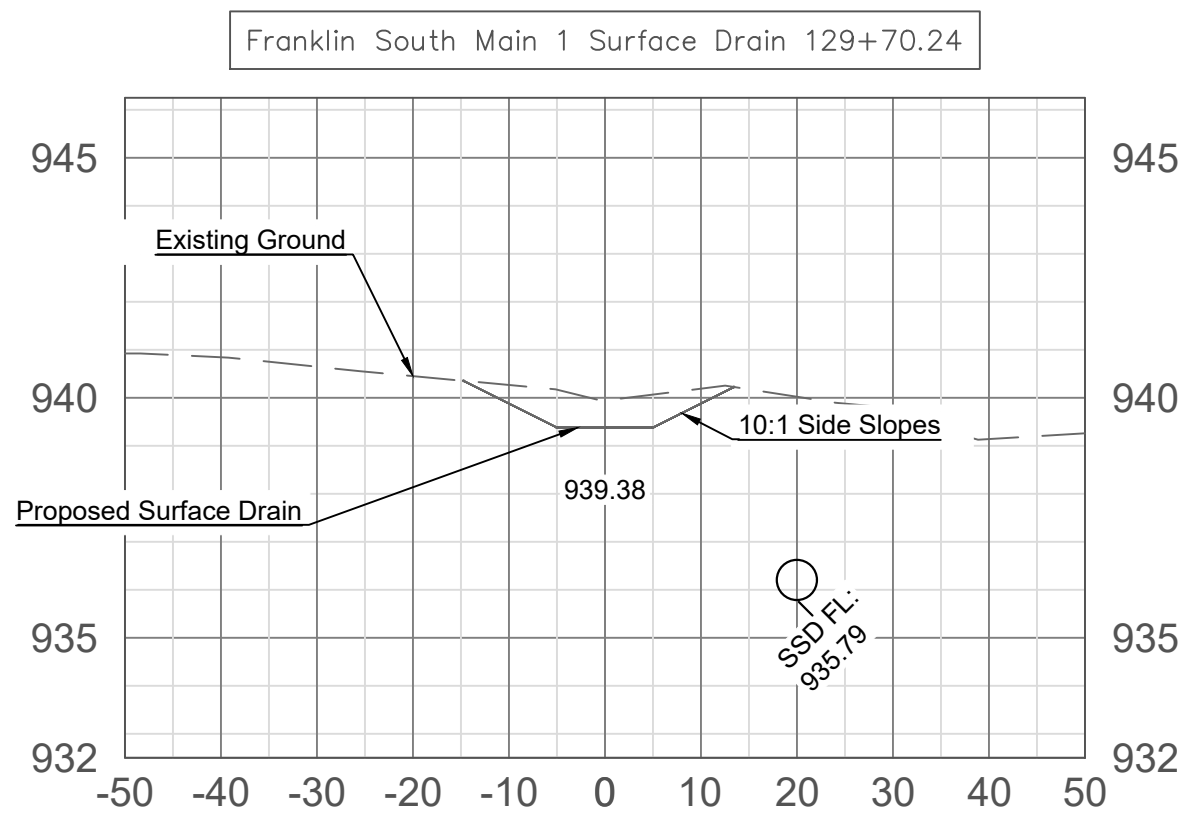
FRANKLIN DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

Map ID	Parcel #	Owner	Address
4	31724003011000	STEPHENS PAULINE	7259 BIG WALNUT RD
7	31724005024000	FICHERIA JOHN PAUL RITA M	5280 S OLD 3C HWY
8	31724005027000	RAMMELSBERG DENNIS H DINAH R	5172 S OLD 3C HWY
9	31724005028002	RAMMELSBERG JOSEPH K	5140 S OLD 3C HWY
10	31724005032000	DAVIS LORNA L	7380 BIG WALNUT RD
11	31724005039000	MATHIAS JAMES G & NANCY J	7172 BIG WALNUT RD
13	31724003004000	BD TWP TRUSTEES GENOA TWP	BIG WALNUT RD
15	31724003012000	NAGRA ARJUN P & SARA B	7311 BIG WALNUT RD
16	31724003014000	SANFILLIPO REGINA L	7363 BIG WALNUT RD
17	31724003016000	MULLINS HAL E TRUSTEE	7421 BIG WALNUT RD
18	31724003020000	DRAYER RONALD N & ETHEL E	5044 S OLD 3C HWY
19	31724005010000	GOODPASTER RALPH C	5201 S OLD 3C HWY
20	31724005013000	FOTIS RAYMOND C SR CLORA	5281 S OLD 3C HWY
21	31724005029000	LEAR JEFFREY R & BETH A	7490 BIG WALNUT RD
22	31724005030000	NG FRIEDA JUNE	7410 BIG WALNUT RD
23	31724005031000	DIORIO ANDREA TRUSTEE	7386 BIG WALNUT RD
24	31724005034000	SEEGER CARL H LOIS A	7340 BIG WALNUT RD
25	31724005038000	JOYCE BRYAN & AMY ELIZABETH	7216 BIG WALNUT RD
26	31724005040000	DEMATTEIS CHARLES B DONNA L TRUSTEES	7176 BIG WALNUT RD
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Franklin South Main Surface Drain and Tile



Franklin South Main Surface Drain and Tile, cont.



PLAN VIEW

Temporary & Permanent Easements

1. The width of the temporary easement for construction shall be seventy-five feet as measured from the top of bank of the open channel, seventy-five feet as measured from the top of bank of the surface drain, and seventy-five feet as measured from the centerline of the subsurface drain where no surface drain cross-section is specified.
2. A permanent easement will be established for maintenance and cleaning of the constructed improvement per ORC 6137.12. The width of the permanent easement will be based on the type of improvement constructed. For Open Channel and Surface Drain Swales, the permanent easement will be twenty-five feet from the top of bank on both sides of the channel, measured at right angles thereto. For closed ditches (subsurface drain installation only), the permanent easement shall be a maximum of eighty feet centered on the centerline of the improvement. The permanent easement for access shall be a maximum width of thirty feet and length as necessary to connect to the improvement as shown on these drawings.

75' Maximum Work Limit Boundary

30' Access Easement

Future Drainage Maintenance Easement Area
(No Work Proposed)

Locate HSTS
prior to
construction