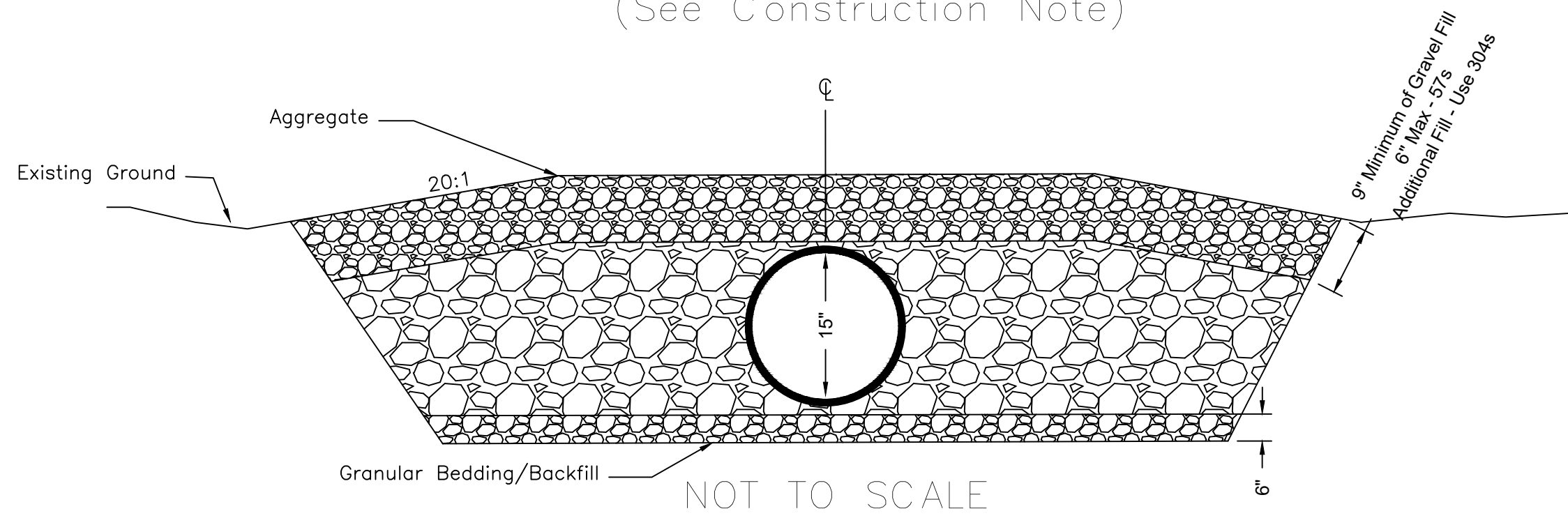






CULVERT INSTALLATION DETAIL  
(See Construction Note)



CONSTRUCTION NOTE

- Materials**
- Conduit - corrugated HDPE plastic smooth lined pipe (double-wall) conforming to ODOT CMS 707.33.
  - 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.

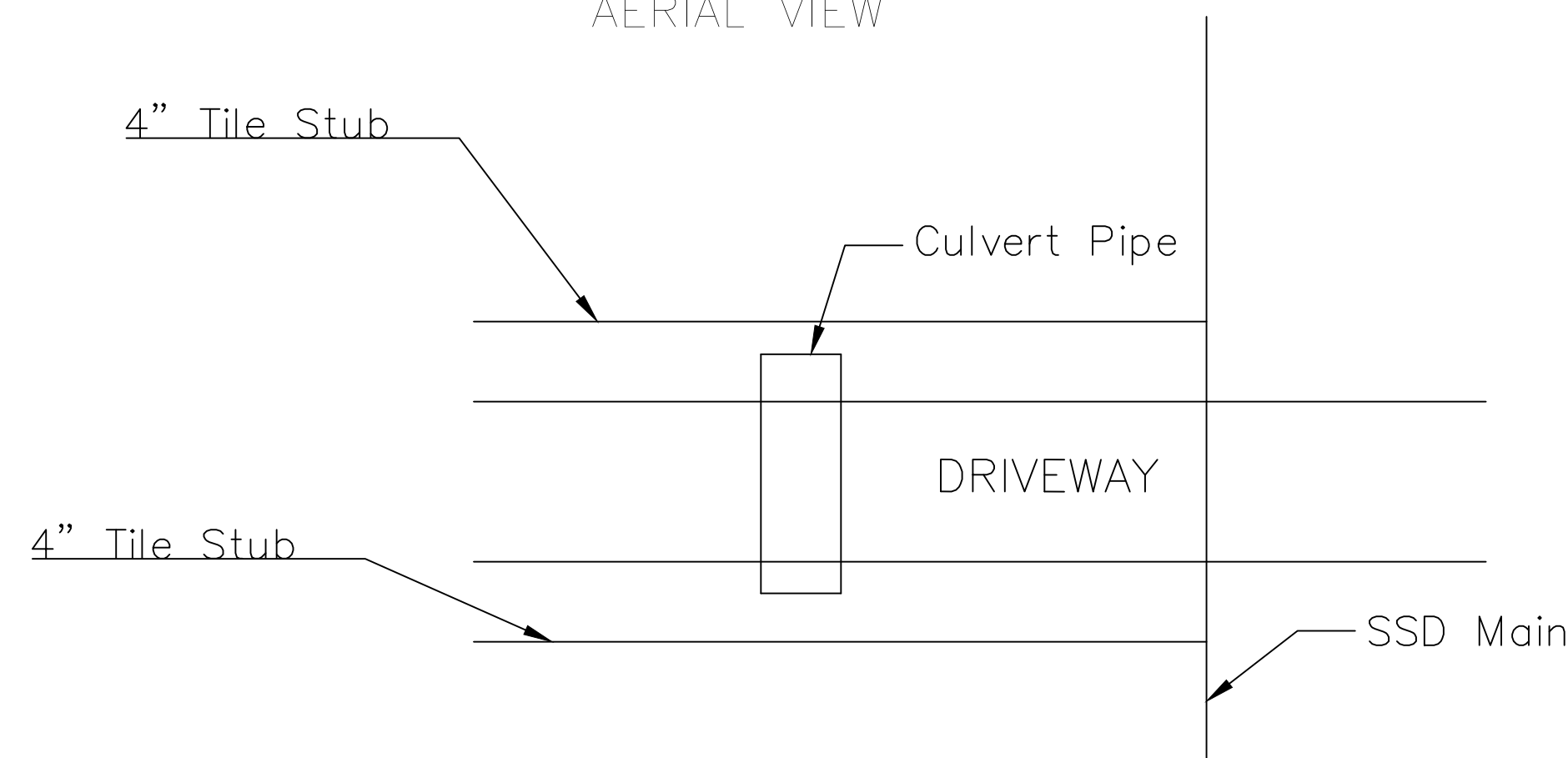
**Laying Culvert**  
Except where otherwise directed by the Engineer for special conditions, the culvert shall be laid starting at the outlet end. For multiple barrel culverts, the minimum distance between the outside of adjacent barrels shall be 24"

**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 re-laid 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.

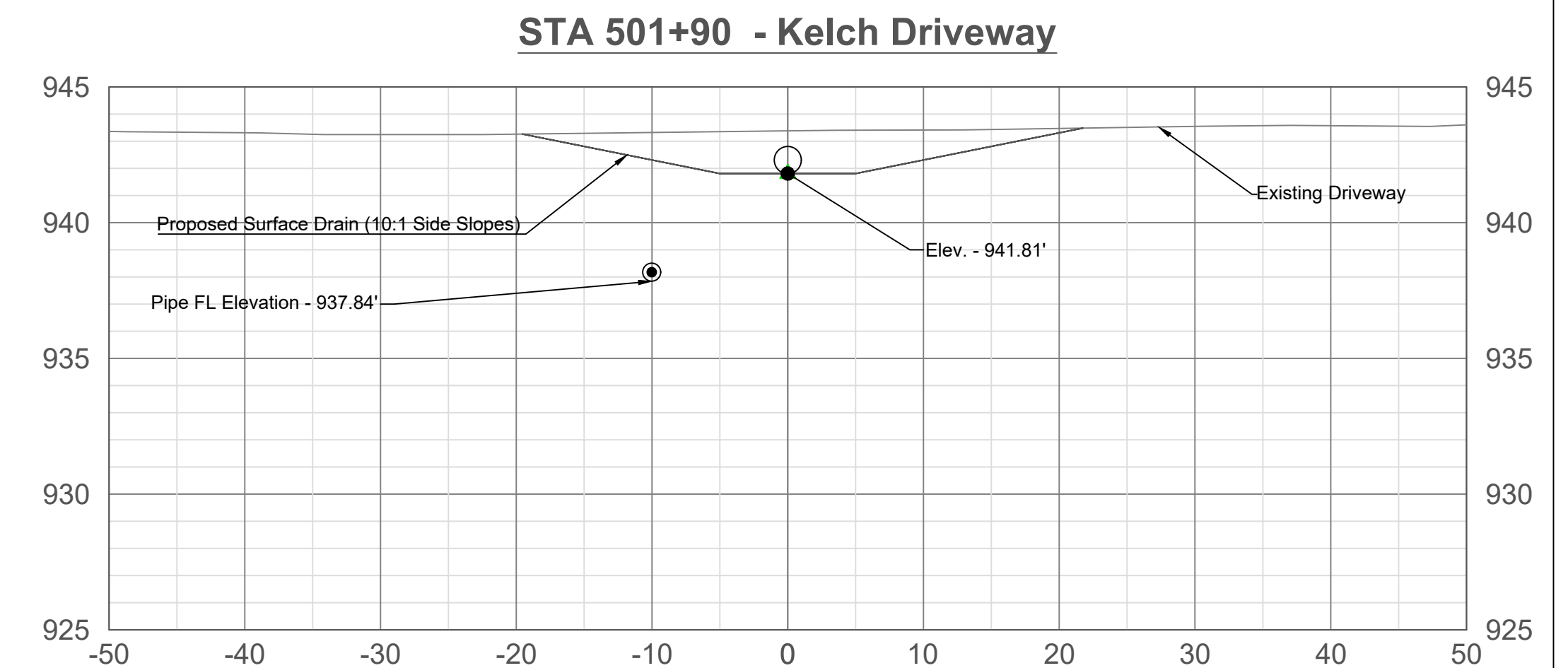
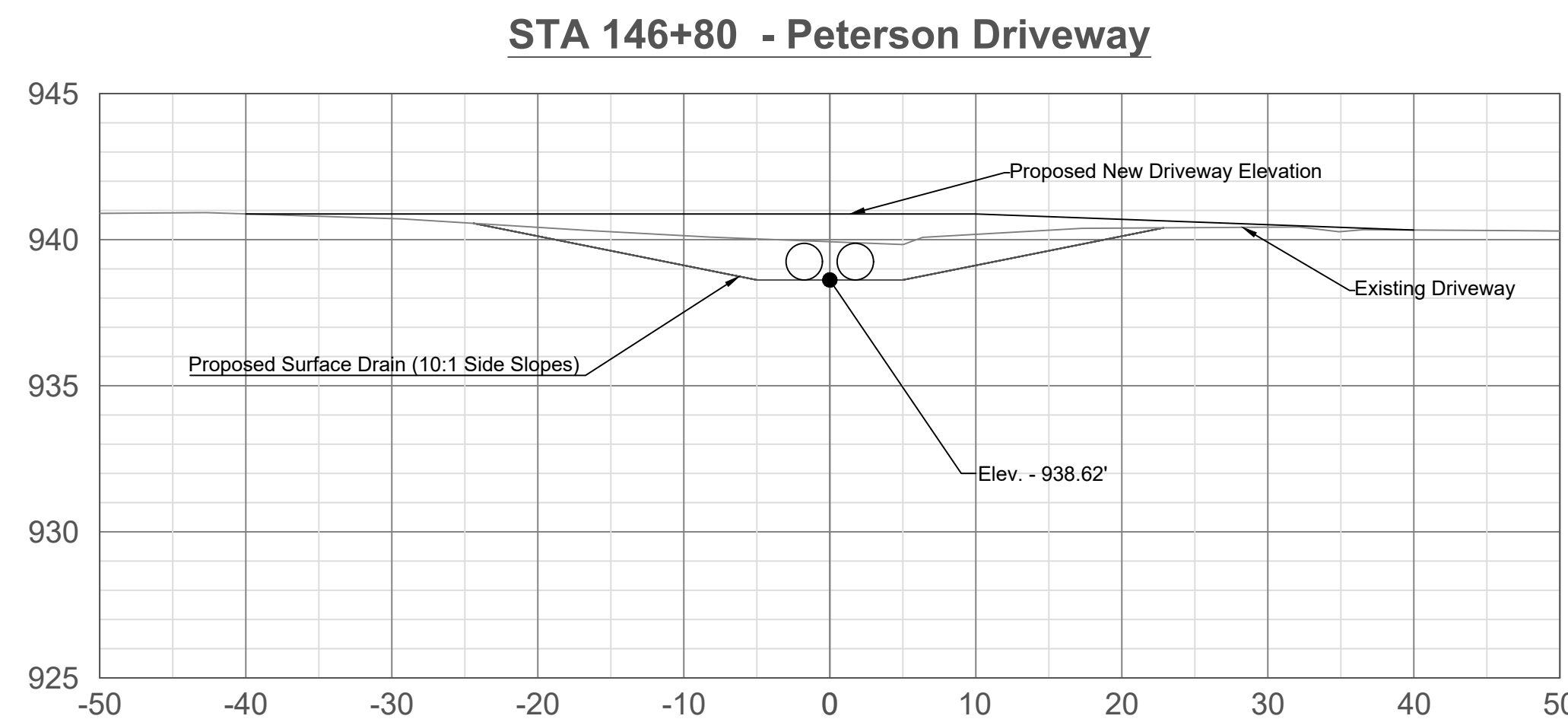
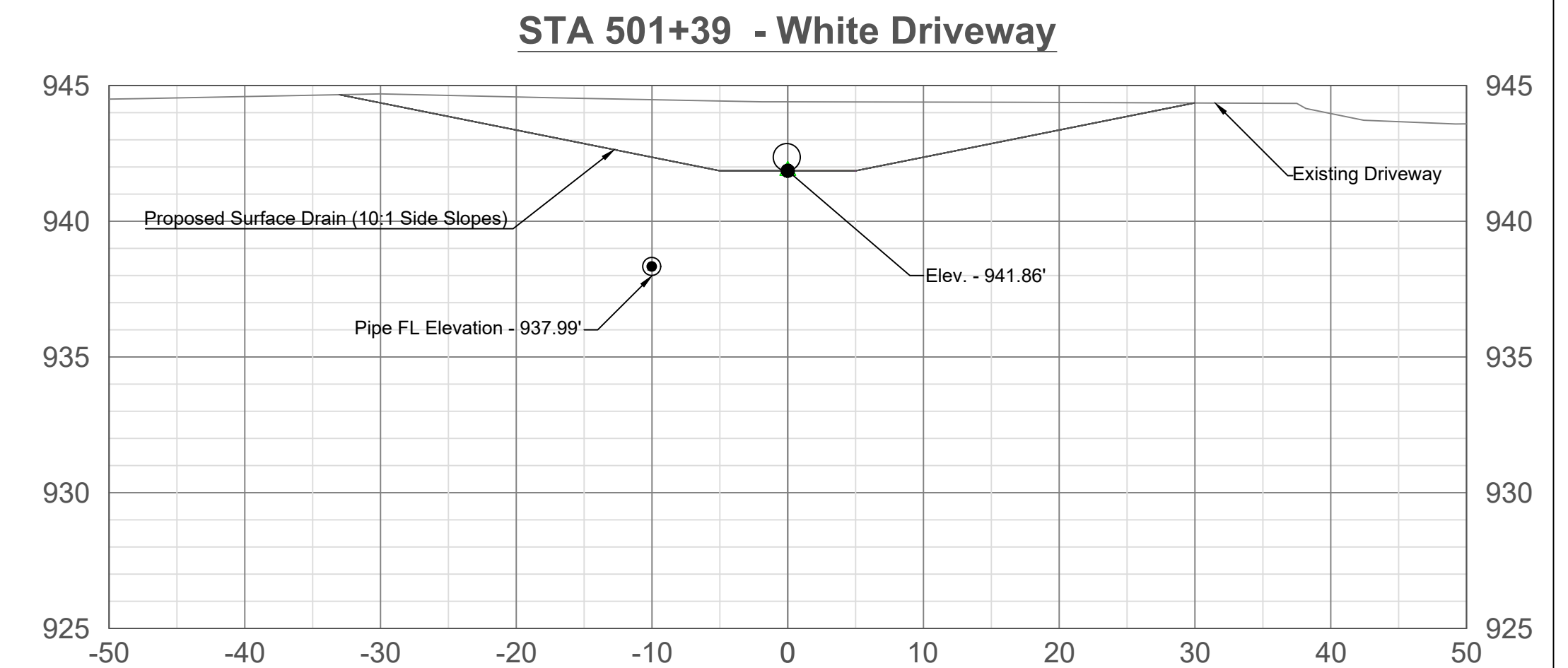
When using #57 or #67 granular backfill, the material shall be compacted to approximately 85% of the original thickness. When using stabilized crushed aggregate, water shall be added as necessary to maintain optimum moisture content. Compaction shall be done by mechanical tampers, jumping-jacks, hand 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.

AERIAL VIEW



CULVERT DESIGN TABLE

STA Entrance	STA Exit	Entrance Inv.	Exit Inv.	Size	Qty.	Material	Length
142+00	142+80	939.08'	939.00'	15"	2	ODOT 707.33	80'
146+60	147+00	938.64'	938.60'	15"	2	ODOT 707.33	40'
501+24	501+49	941.93'	941.90'	12"	1	ODOT 707.33	25'
501+75	502+00	941.83'	941.80'	12"	1	ODOT 707.33	25'

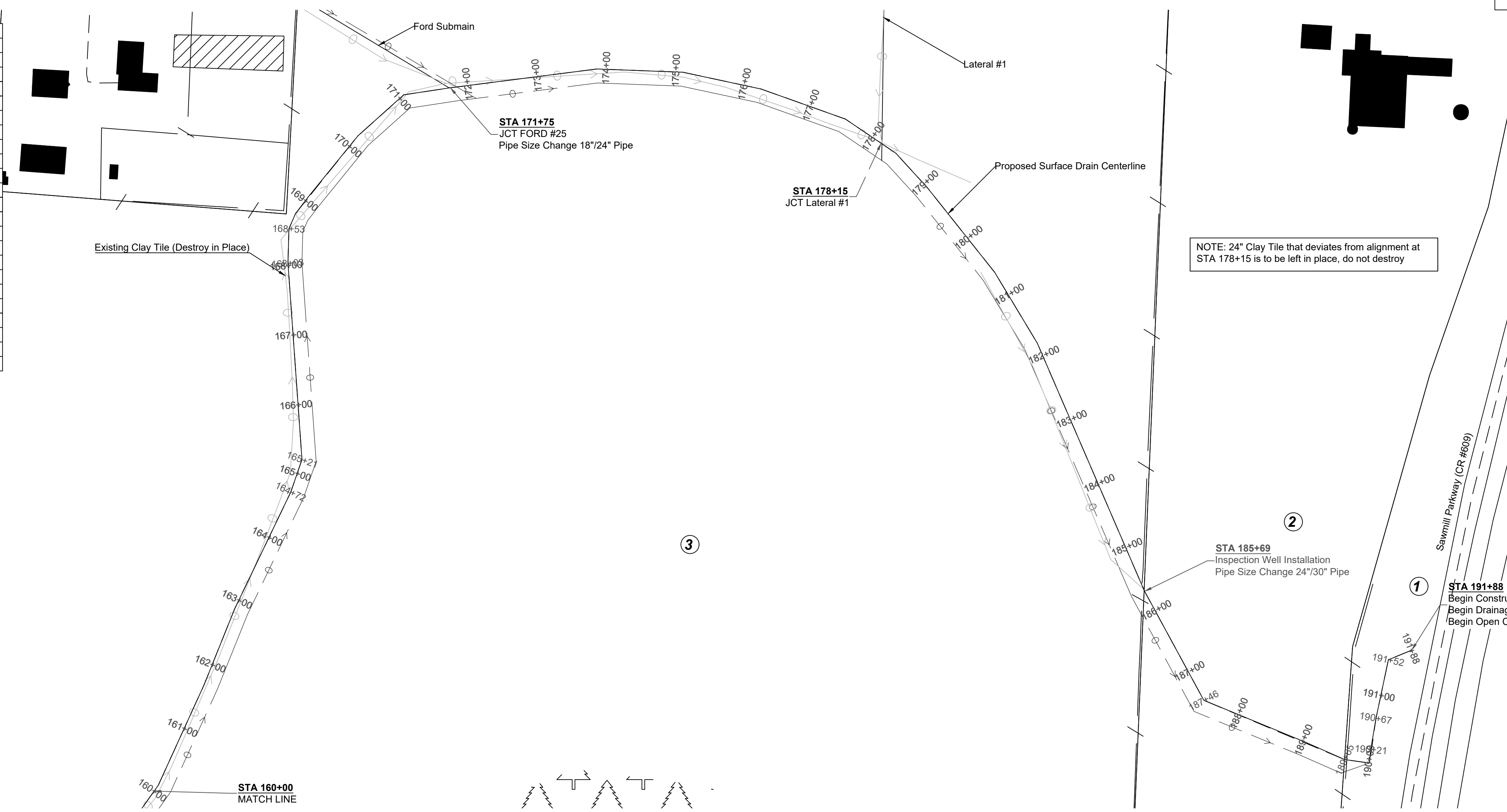


Watson-Ford #25 Main			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 468	Lined Waterway - Rock Lined Channel	75	Lineal Feet
NRCS 582	Open Channel Construction	150	Lineal Feet
NRCS 606	8" Pipe, Perforated	300	Lineal Feet
NRCS 606	10" Pipe, Non-Perforated	560	Lineal Feet
NRCS 606	12" Pipe, Non-Perforated	1,620	Lineal Feet
NRCS 606	15" Pipe, Perforated	905	Lineal Feet
NRCS 606	18" Pipe, Perforated	1,445	Lineal Feet
NRCS 606	18" Pipe, Non-Perforated	2,305	Lineal Feet
NRCS 606	24" Pipe, Perforated	1,393	Lineal Feet
NRCS 606	30" Pipe, Perforated	430	Lineal Feet
NRCS 606	30" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	15	Each
NRCS 608	Surface Drain - Swale	8,467	Lineal Feet
ODOT 202	Tile Removal	4,300	Lineal Feet
ODOT 601	Culvert Inlet/Outlet Protection - Riprap	2	Each
ODOT 611	15" Pipe (707.33), Type A Installation, Asphalt Road	120	Lineal Feet
ODOT 611	18" Pipe (707.33), Type B Installation, Asphalt Drive	40	Lineal Feet
ODOT 611	15" Pipe (707.33), Type B Installation, Asphalt Road	40	Lineal Feet
ODOT 614	Traffic Maintenance	LUMP	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	46,000	Square Yards

Lot	Owner	Address	Parcel Number
1	Dedicated Road Right of Way	Sawmill Parkway	99999925000000
2	Milo & Susan Hilty	1851 Ford Road	41931002006000
3	Milo & Susan Hilty	Ford Road	41931002007000

**CONSTRUCTION NOTES**

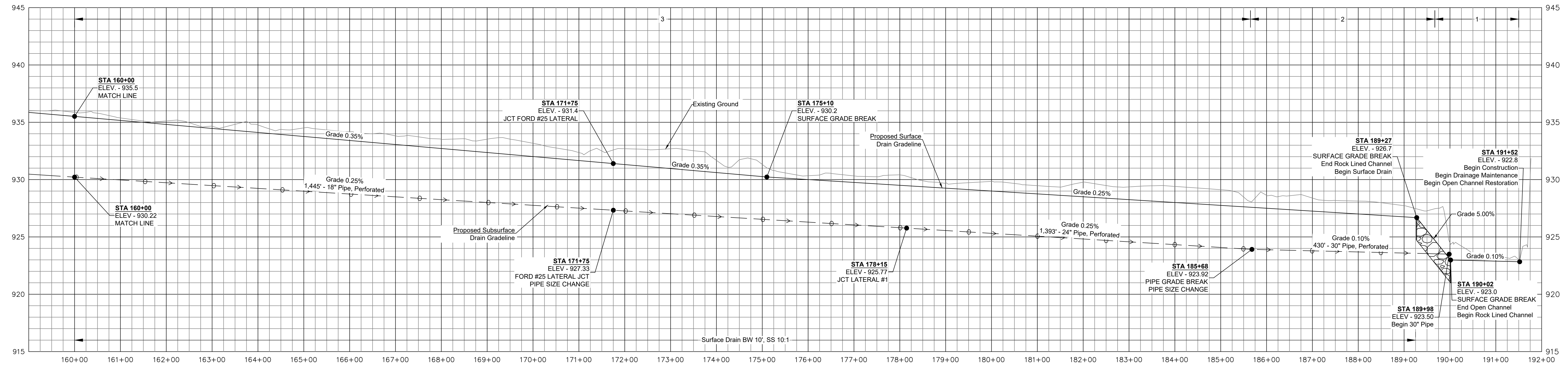
- All General Construction Notes on P. 2 of 19 shall apply.
- Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.
- Details to be referenced on p. 2 of 19:  
 Typical Surface Drain Cross Section  
 Typical Subsurface Drain Installation  
 Typical Subsurface Drain Lateral Connection  
 Outlet Pipe Installation w/ Animal Guard  
 Rock Lined Channel  
 Inspection Well Installation
- All spoil is to be exported from the site per General Construction Note #5. Payment for spoil export shall be considered as incidental to payment for NRCS Items #582 and #608.
- Written notice must be provided to any property owner affected by installation of the drive culverts a minimum of seven calendar days prior to commencing the installation. Copies of written notice must be provided to the Construction Supervisor upon delivery to the property owners. Drive culvert installations should be planned such as to be completed within one working day. Drives must be made accessible at the completion of a working day either by completion of the installation or by temporary plating.



**LEGEND**

- Existing SSD
- Proposed Mains
- Building
- Septic System
- Pond
- Woodlands
- Road
- Driveway
- Benchmark

**PROFILE**



# WATSON-FORD #32

# WATSON-FORD #25 DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS

5  
19

Watson-Ford #25 Main			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocation		LUMP
NRCS 326	Clearing & Snagging		LUMP
NRCS 466	Lined Waterway - Rock Lined Channel	75	Linear Feet
NRCS 582	Open Channel Construction	150	Linear Feet
NRCS 606	8" Pipe, Perforated	300	Linear Feet
NRCS 606	10" Pipe, Non-Perforated	560	Linear Feet
NRCS 606	12" Pipe, Non-Perforated	1,600	Linear Feet
NRCS 606	15" Pipe, Perforated	905	Linear Feet
NRCS 606	18" Pipe, Perforated	1,445	Linear Feet
NRCS 606	18" Pipe, Non-Perforated	2,305	Linear Feet
NRCS 606	24" Pipe, Perforated	1,293	Linear Feet
NRCS 606	30" Pipe, Perforated	430	Linear Feet
NRCS 606	30" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	15	Each
NRCS 608	Surface Drain - Swale	8,467	Linear Feet
ODOT 202	Tile Removal	4,300	Linear Feet
ODOT 601	Culvert Inlet/Outlet Protection - Riprap	2	Each
ODOT 611	15" Pipe (707.33), Type A Installation, Asphalt Road	120	Linear Feet
ODOT 611	18" Pipe (707.33), Type B Installation, Asphalt Drive	40	Linear Feet
ODOT 611	15" Pipe (707.33), Type B Installation, Asphalt Road	40	Linear Feet
ODOT 614	Traffic Maintenance		LUMP
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	46,000	Square Yards

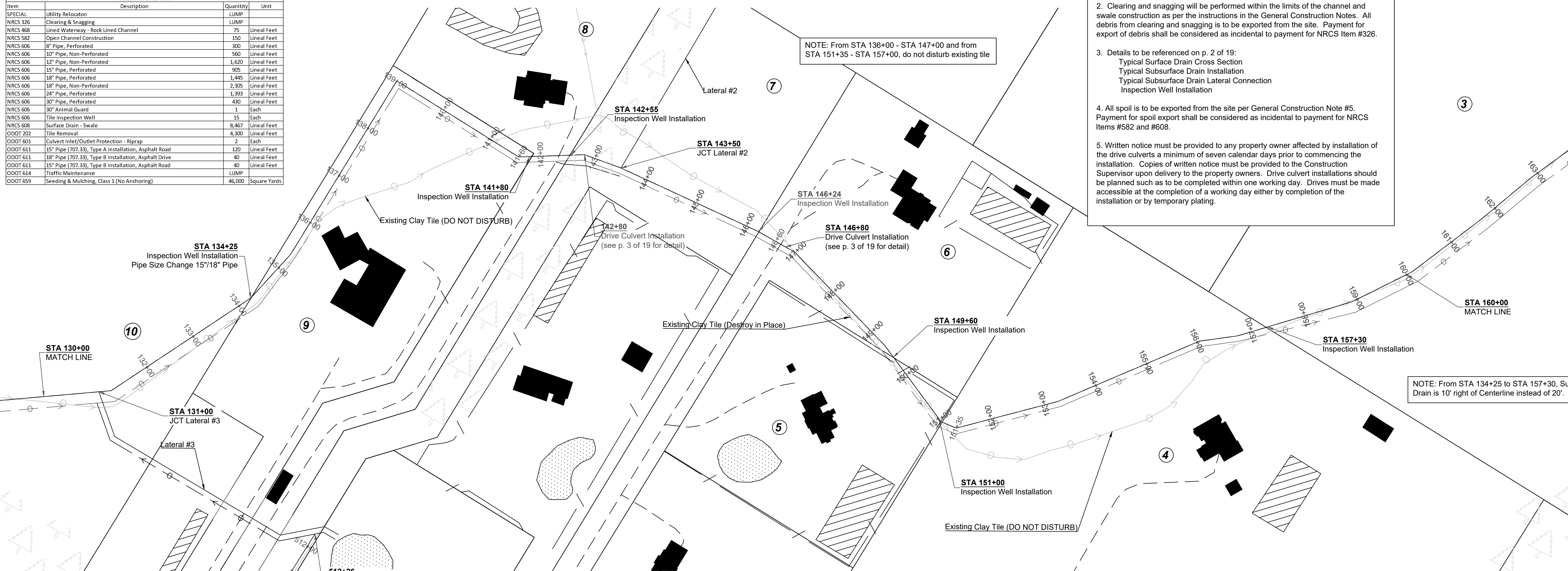
### CONSTRUCTION NOTES

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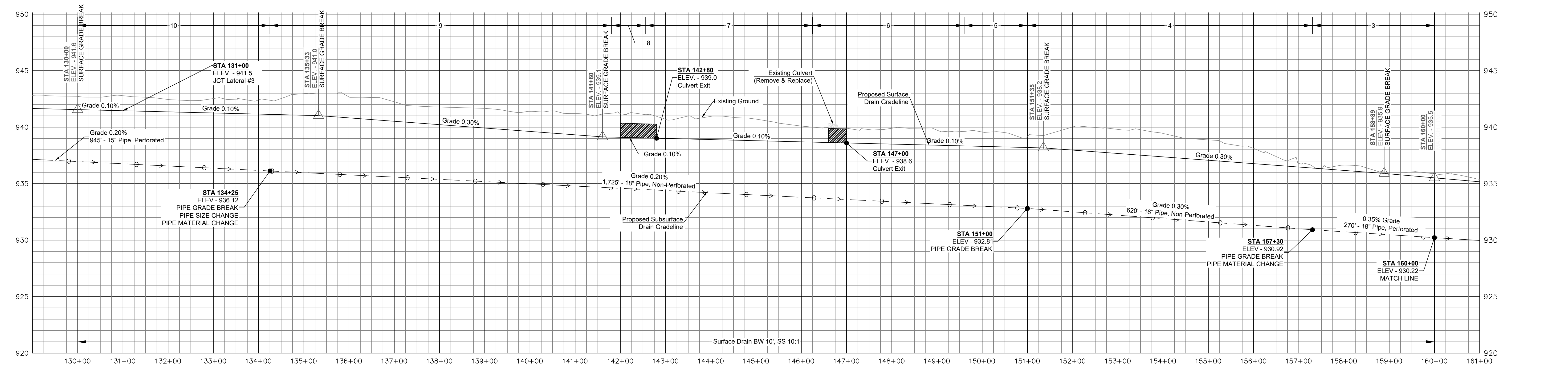


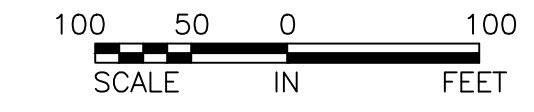
LEGEND	
Existing SSD	
Proposed Mains	
Building	
Septic System	
Pond	
Woodlands	
Road	
Driveway	
Benchmark	

Lot	Owner	Address	Parcel Number
3	Milo & Susan Hilty	Ford Road	41931002007000
4	Edna DiRocco	3000 Bean-Oller Road	41931002017000
5	Jennifer Datta	3124 Bean-Oller Road	41931002016005
6	Justin & Christy Petersen	3130 Bean-Oller Road	41931002016006
7	Christopher & Jennifer Miller	3214 Bean-Oller Road	41931002015003
8	Adam & Carrie White	3218 Bean-Oller Road	41931002015002
9	Dustin & Allison Kelch	3226 Bean-Oller Road	41931002015001
10	SJ Wolf Farms LLC	Bean Oller Road	41932002073000



### PROFILE

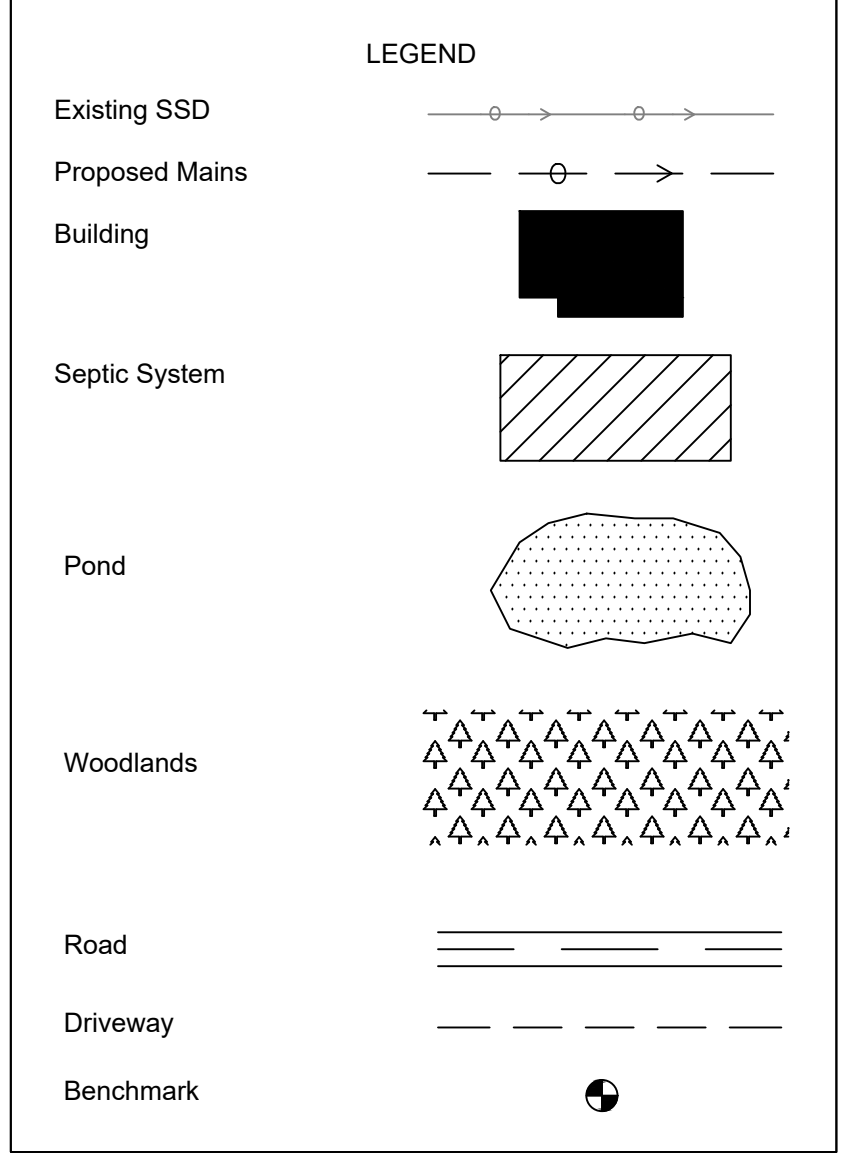




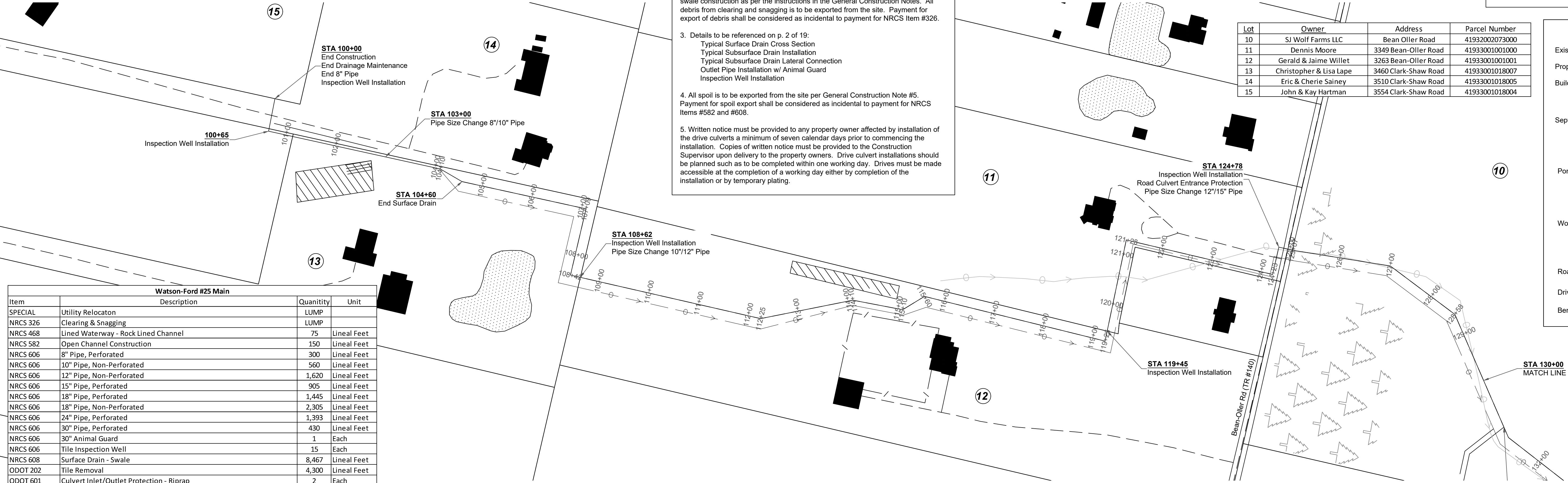
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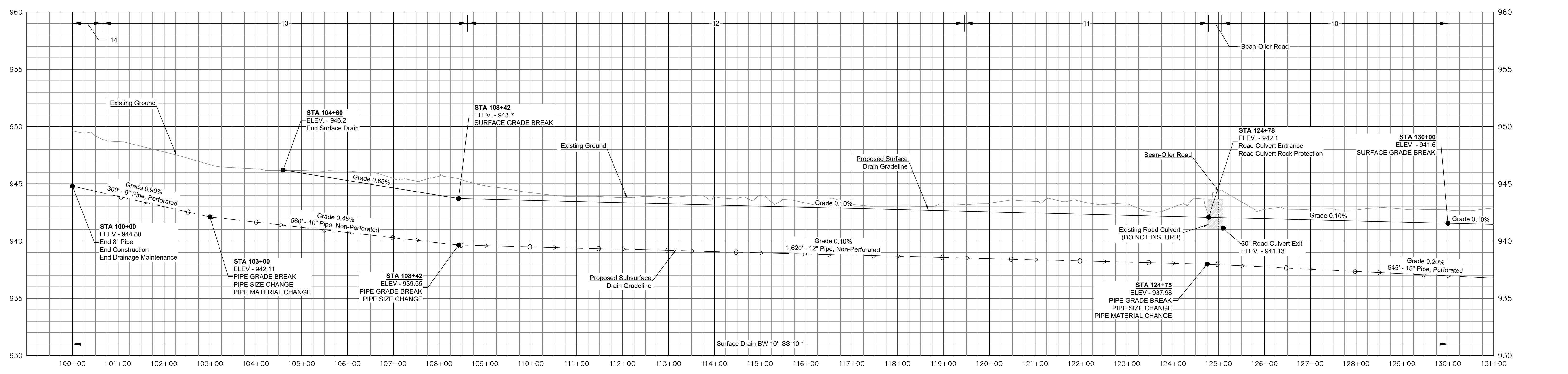
Lot	Owner	Address	Parcel Number
10	SJ Wolf Farms LLC	Bean Oller Road	41932002073000
11	Dennis Moore	3349 Bean-Oller Road	41933001001000
12	Gerald & Jaime Willet	3263 Bean-Oller Road	41933001001001
13	Christopher & Lisa Lape	3460 Clark-Shaw Road	41933001018007
14	Eric & Cherie Sainey	3510 Clark-Shaw Road	41933001018005
15	John & Kay Hartman	3554 Clark-Shaw Road	41933001018004

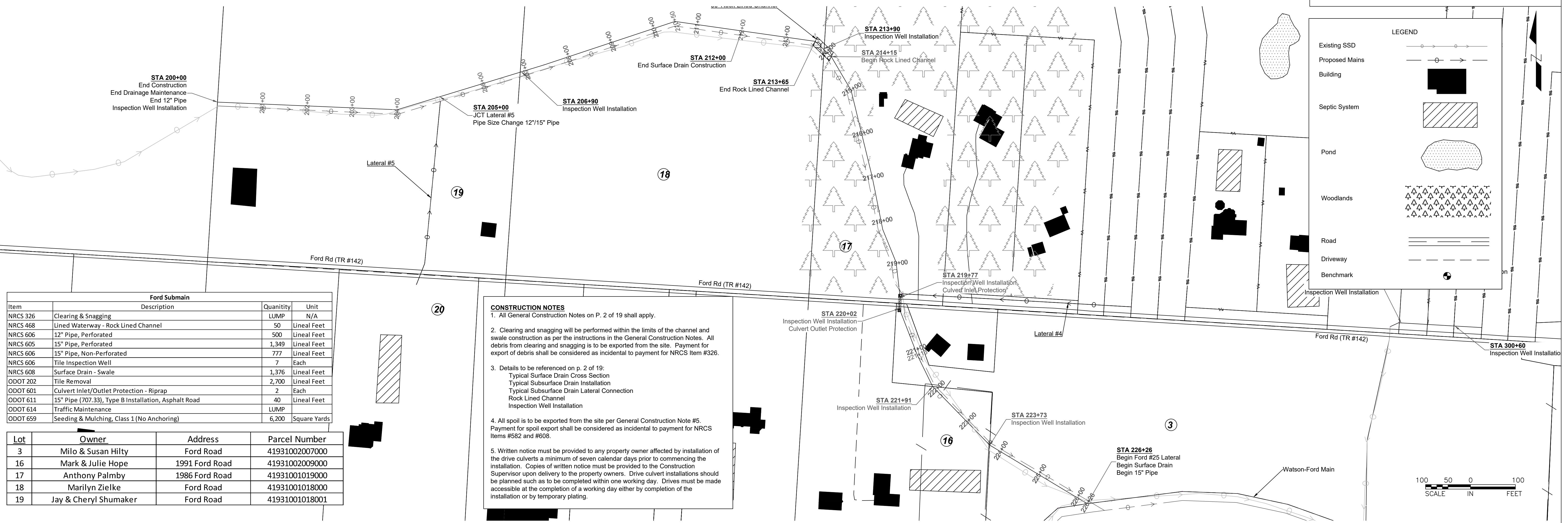


Watson-Ford #25 Main			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 468	Lined Waterway - Rock Lined Channel	75	Lineal Feet
NRCS 582	Open Channel Construction	150	Lineal Feet
NRCS 606	8" Pipe, Perforated	300	Lineal Feet
NRCS 606	10" Pipe, Non-Perforated	560	Lineal Feet
NRCS 606	12" Pipe, Non-Perforated	1,620	Lineal Feet
NRCS 606	15" Pipe, Perforated	905	Lineal Feet
NRCS 606	18" Pipe, Perforated	1,445	Lineal Feet
NRCS 606	18" Pipe, Non-Perforated	2,305	Lineal Feet
NRCS 606	24" Pipe, Perforated	1,393	Lineal Feet
NRCS 606	30" Pipe, Perforated	430	Lineal Feet
NRCS 606	30" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	15	Each
NRCS 608	Surface Drain - Swale	8,467	Lineal Feet
ODOT 202	Tile Removal	4,300	Lineal Feet
ODOT 601	Culvert Inlet/Outlet Protection - Riprap	2	Each
ODOT 611	15" Pipe (707.33), Type A Installation, Asphalt Road	120	Lineal Feet
ODOT 611	18" Pipe (707.33), Type B Installation, Asphalt Drive	40	Lineal Feet
ODOT 611	15" Pipe (707.33), Type B Installation, Asphalt Road	40	Lineal Feet
ODOT 614	Traffic Maintenance	LUMP	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	46,000	Square Yards



**PROFILE**





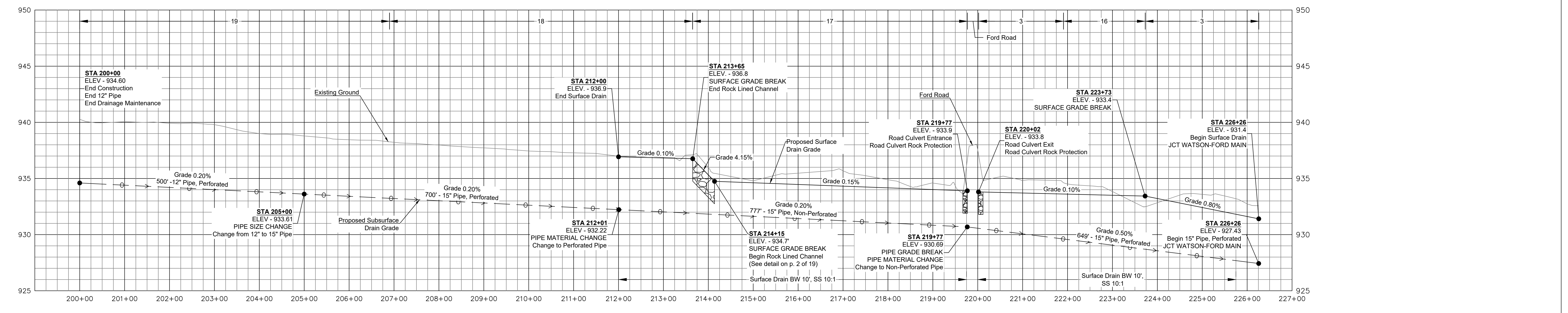
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	LUMP	N/A
NRCS 468	Lined Waterway - Rock Lined Channel	50	Lineal Feet
NRCS 606	12" Pipe, Perforated	500	Lineal Feet
NRCS 605	15" Pipe, Perforated	1,349	Lineal Feet
NRCS 606	15" Pipe, Non-Perforated	777	Lineal Feet
NRCS 606	Tile Inspection Well	7	Each
NRCS 608	Surface Drain - Swale	1,376	Lineal Feet
ODOT 202	Tile Removal	2,700	Lineal Feet
ODOT 601	Culvert Inlet/Outlet Protection - Riprap	2	Each
ODOT 611	15" Pipe (707.33), Type B Installation, Asphalt Road	40	Lineal Feet
ODOT 614	Traffic Maintenance	LUMP	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	6,200	Square Yards

Lot	Owner	Address	Parcel Number
3	Milo & Susan Hilty	Ford Road	41931002007000
16	Mark & Julie Hope	1991 Ford Road	41931002009000
17	Anthony Palmby	1986 Ford Road	41931001019000
18	Marilyn Zielke	Ford Road	41931001018000
19	Jay & Cheryl Shumaker	Ford Road	41931001018001

**CONSTRUCTION NOTES**

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 Inspection Well Installation
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PROFILE



*FORD #25 SUBMAIN*

NOTE: THIS SECTION HAS BEEN COMPLETED PRIVATELY. THE INSTALLED INFRASTRUCTURE WILL BE INCLUDED IN DRAINAGE MAINTENANCE IN THE AS-BUILT CONDITION.

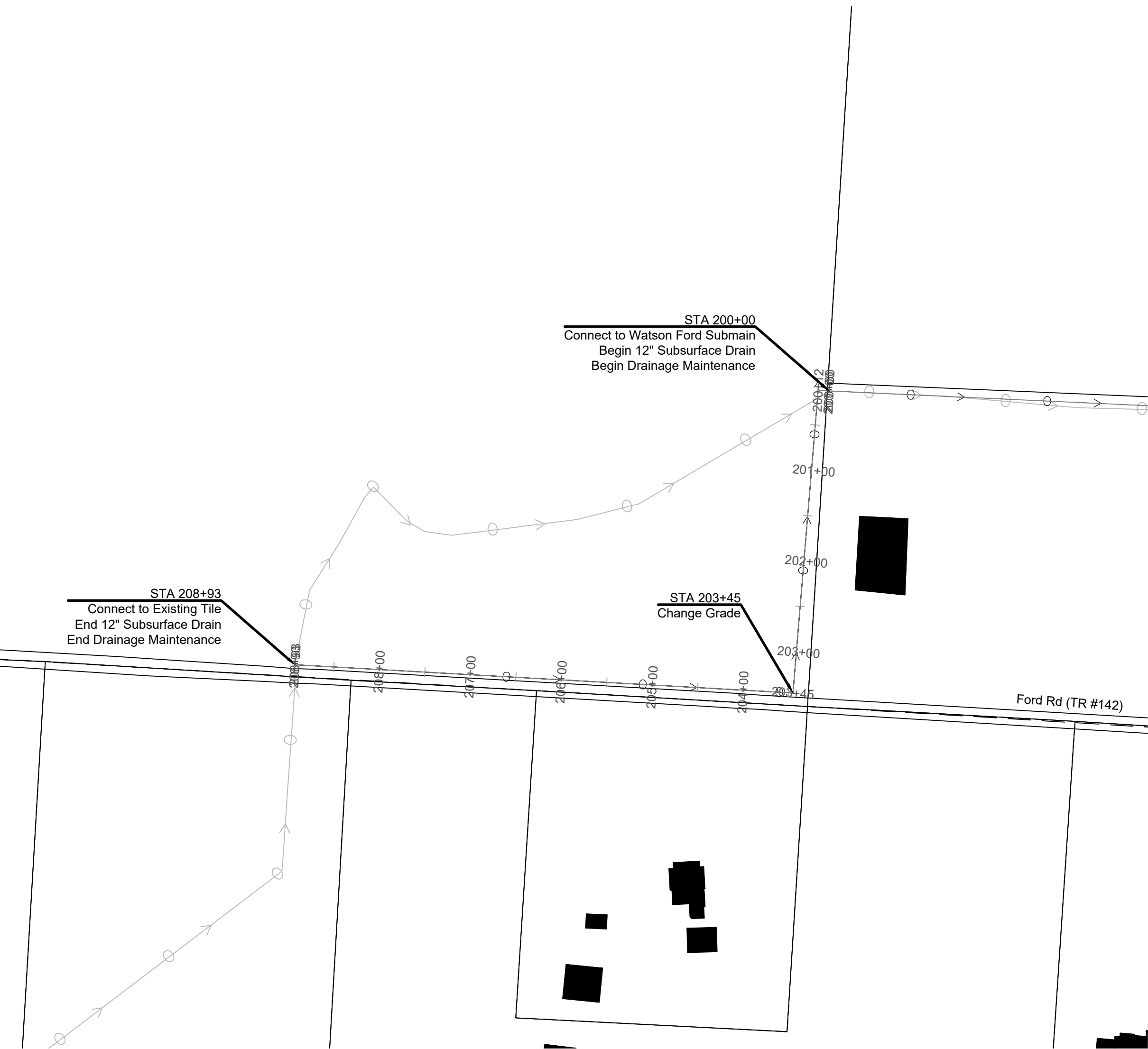
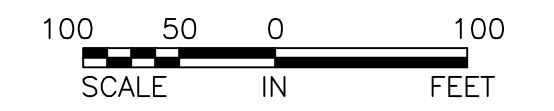
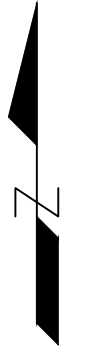
Submain Connection				
Item	Description	Quantity	Unit	
SPECIAL	Utility Relocation	LUMP		
NRCS 606	12" Pipe, Perforated	893	Lineal Feet	
NRCS 606	Tile Inspection Well	1	Each	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	2,500	Square Yards	

**CONSTRUCTION NOTES**

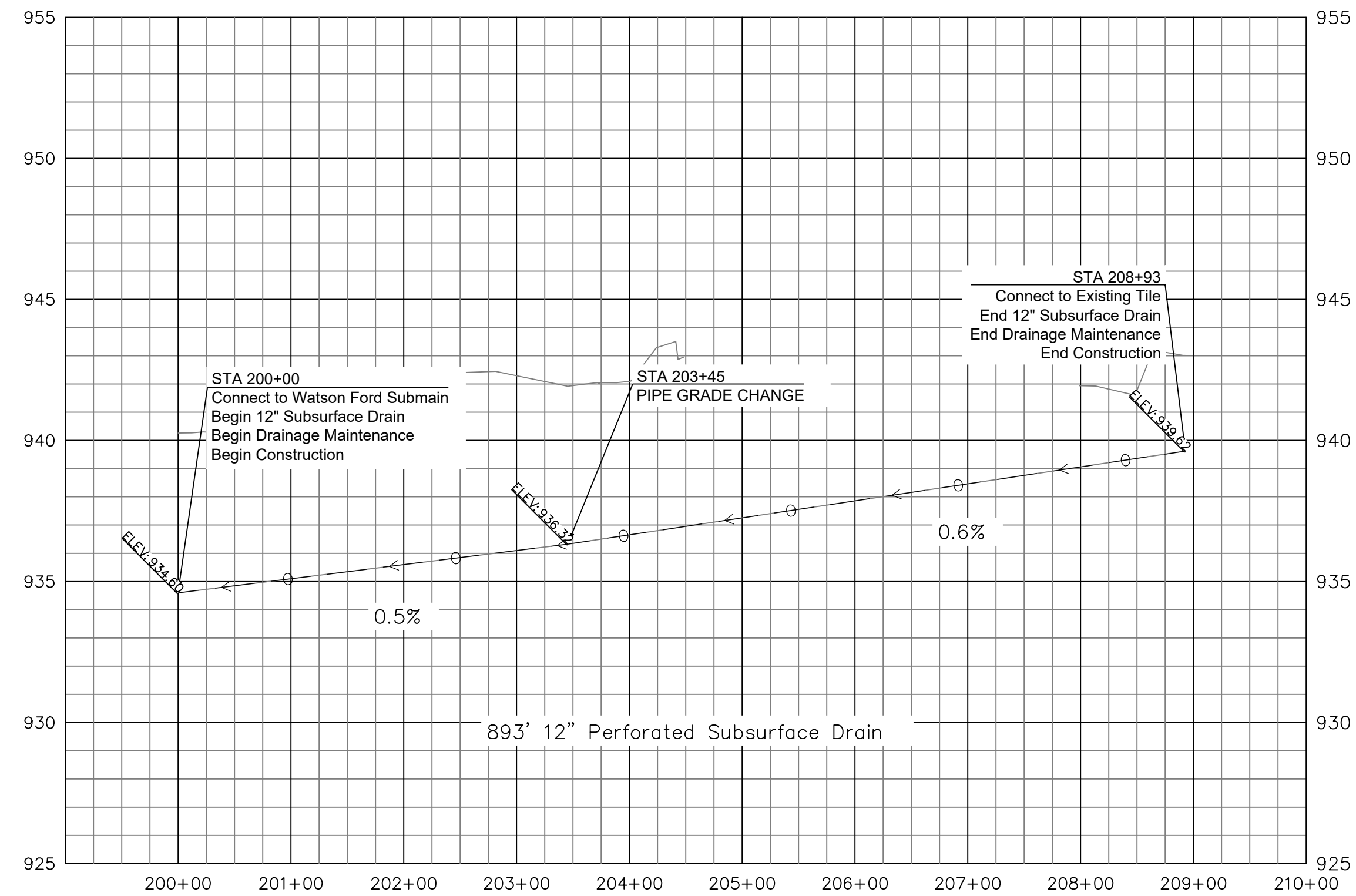
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  - Typical Subsurface Drain Installation
  - Typical Subsurface Drain Lateral Connection
  - Rock Lined Channel
  - Inspection Well Installation
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LEGEND

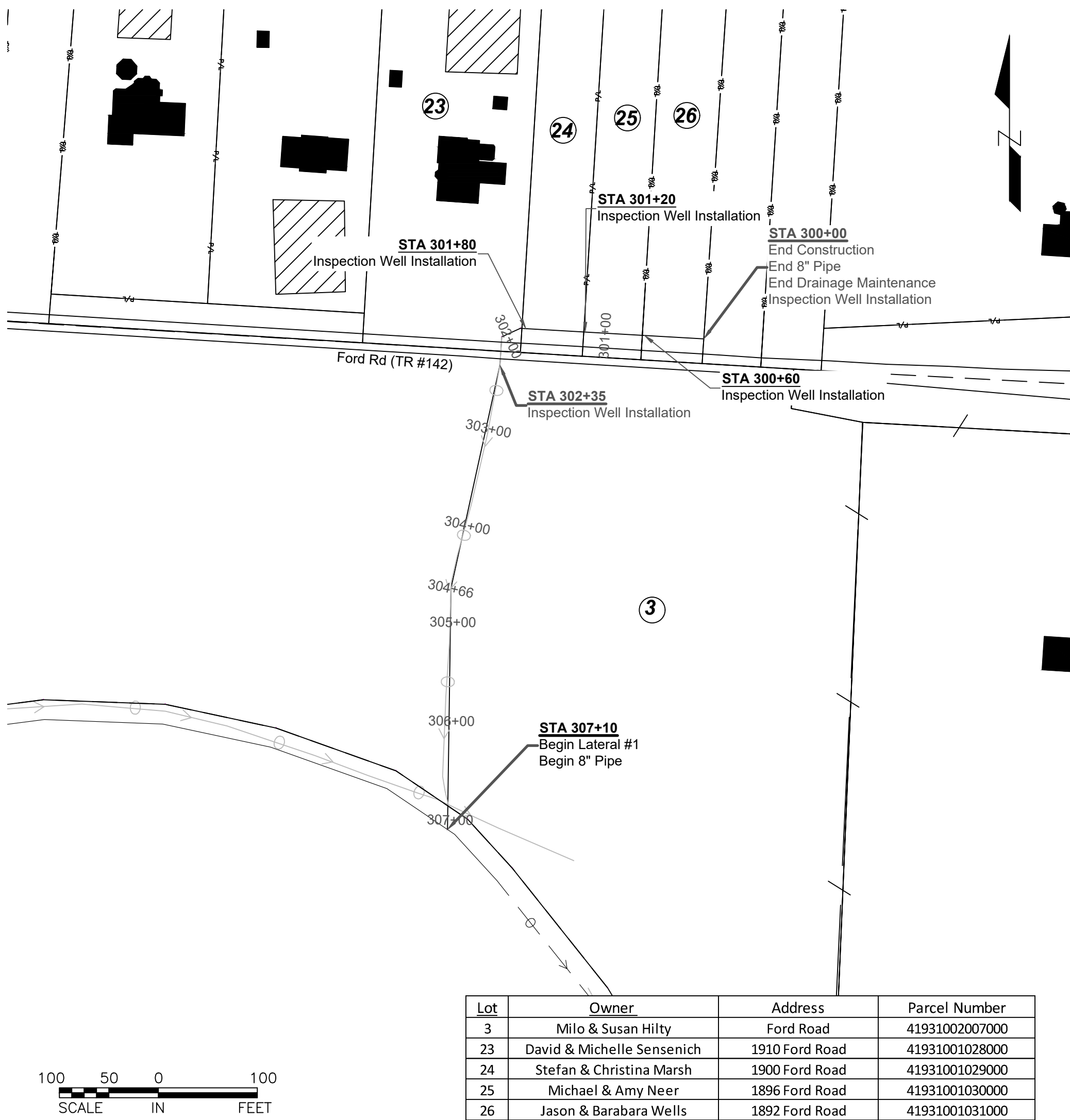
- Existing SSD:
- Proposed Mains:
- Building:
- Septic System:
- Pond:
- Woodlands:
- Road:
- Driveway:
- Benchmark:



*PROFILE*

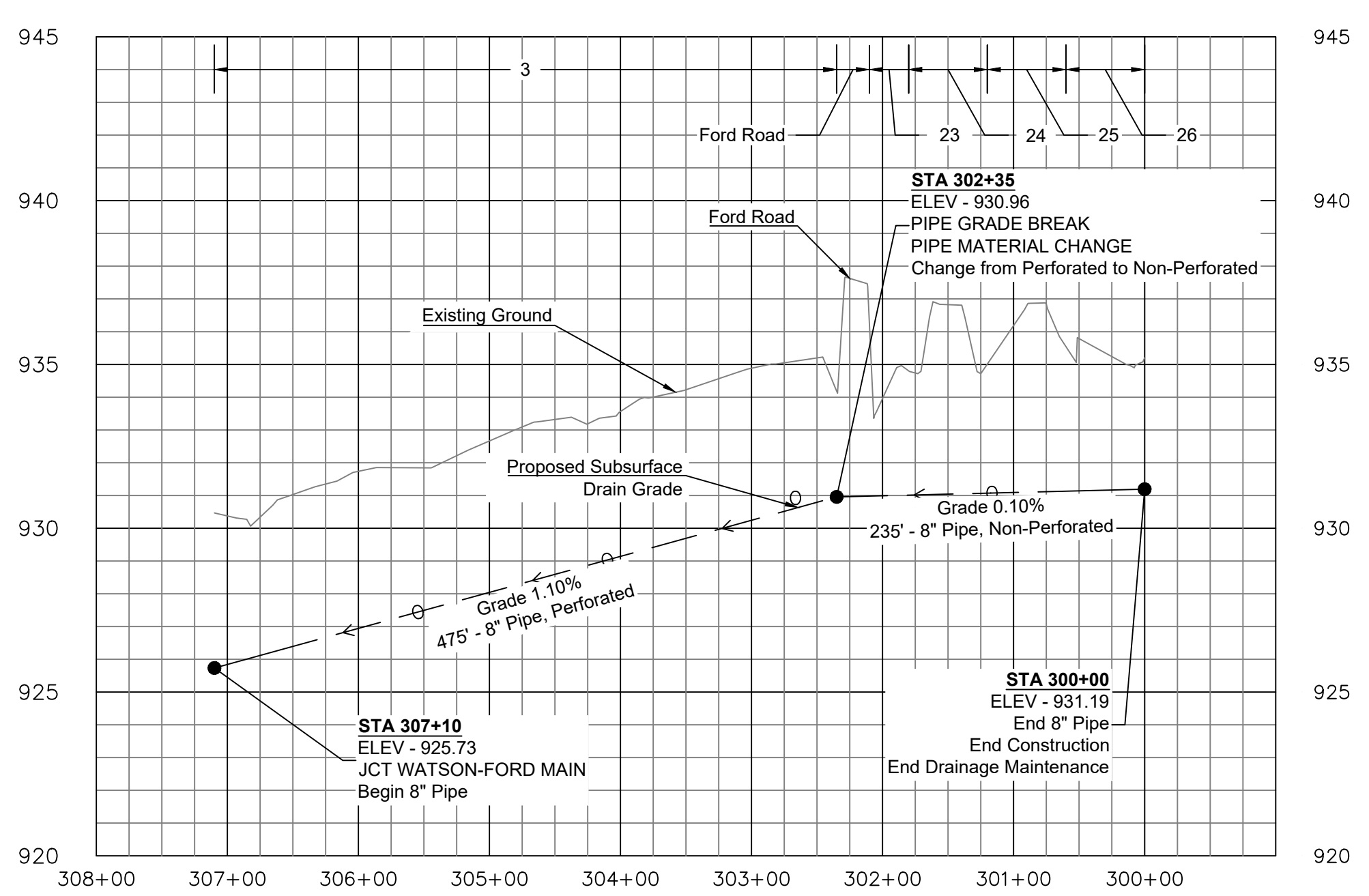


LATERAL #1 PLAN VIEW

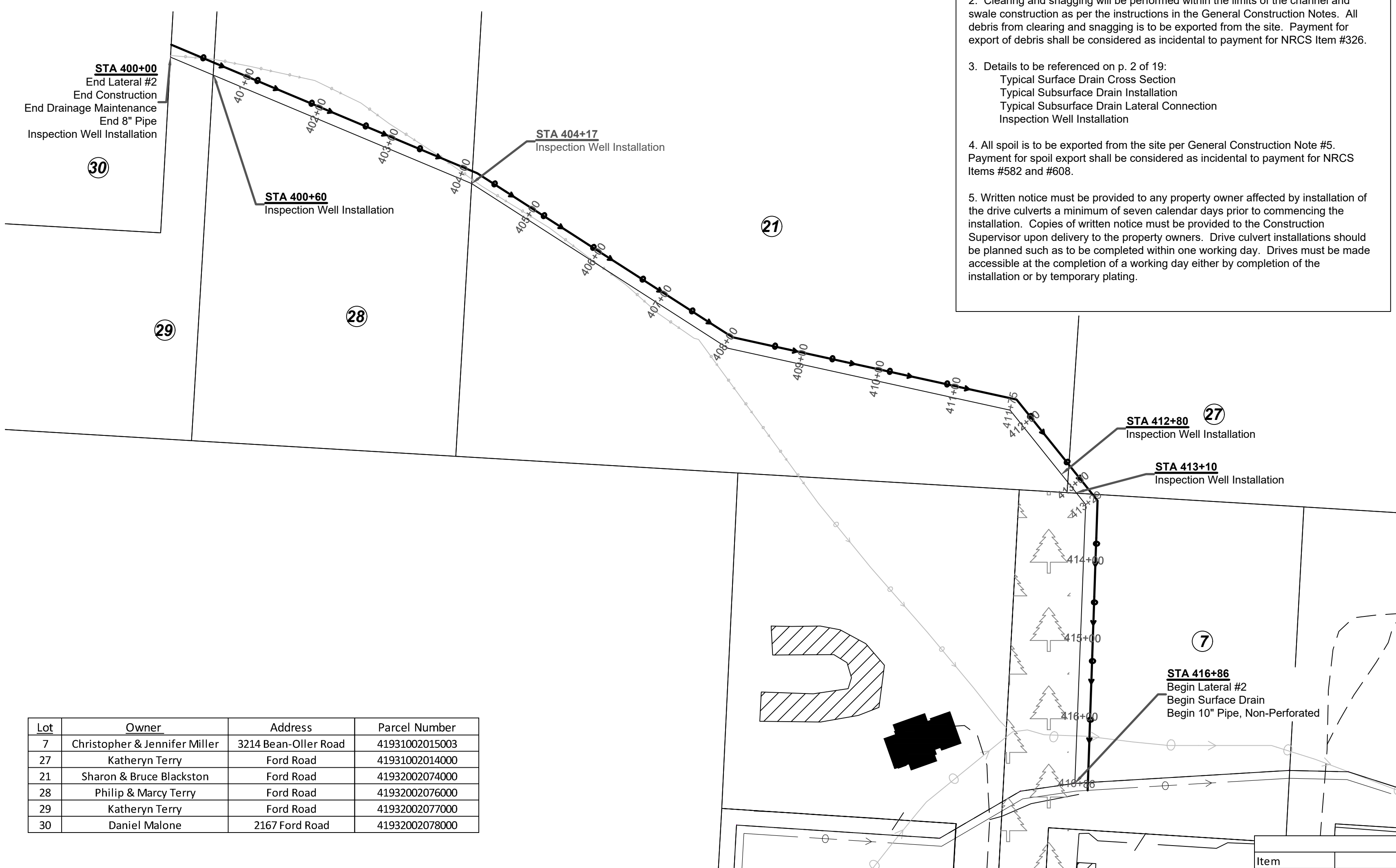


Lot	Owner	Address	Parcel Number
3	Milo & Susan Hilty	Ford Road	41931002007000
23	David & Michelle Sensenich	1910 Ford Road	41931001028000
24	Stefan & Christina Marsh	1900 Ford Road	41931001029000
25	Michael & Amy Neer	1896 Ford Road	41931001030000
26	Jason & Barbara Wells	1892 Ford Road	41931001031000

LATERAL #1 PROFILE

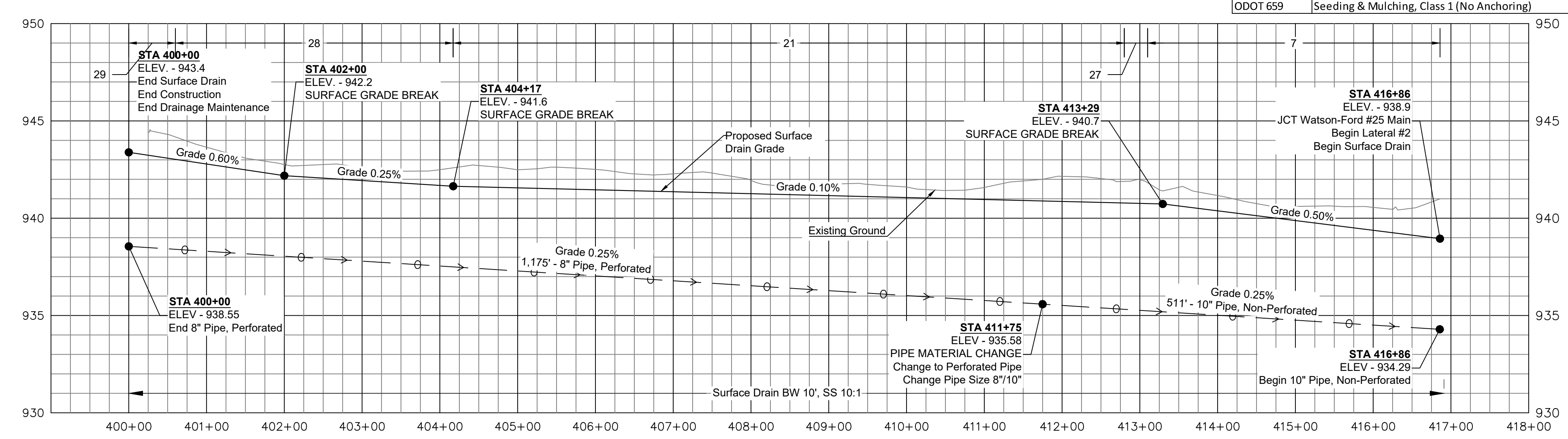


LATERAL #2 PLAN VIEW



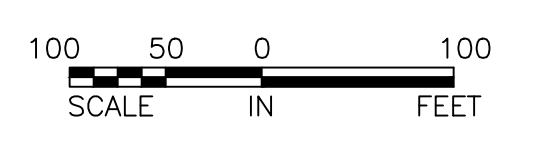
Lot	Owner	Address	Parcel Number
7	Christopher & Jennifer Miller	3214 Bean-Oller Road	41931002015003
27	Katheryn Terry	Ford Road	41931002014000
21	Sharon & Bruce Blackston	Ford Road	41932002074000
28	Phillip & Marcy Terry	Ford Road	41932002076000
29	Katheryn Terry	Ford Road	41932002077000
30	Daniel Malone	2167 Ford Road	41932002078000

LATERAL #2 PROFILE



**CONSTRUCTION NOTES**

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- Details to be referenced on p. 2 of 19:  
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 Typical Subsurface Drain Lateral Connection  
 Inspection Well Installation
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LEGEND

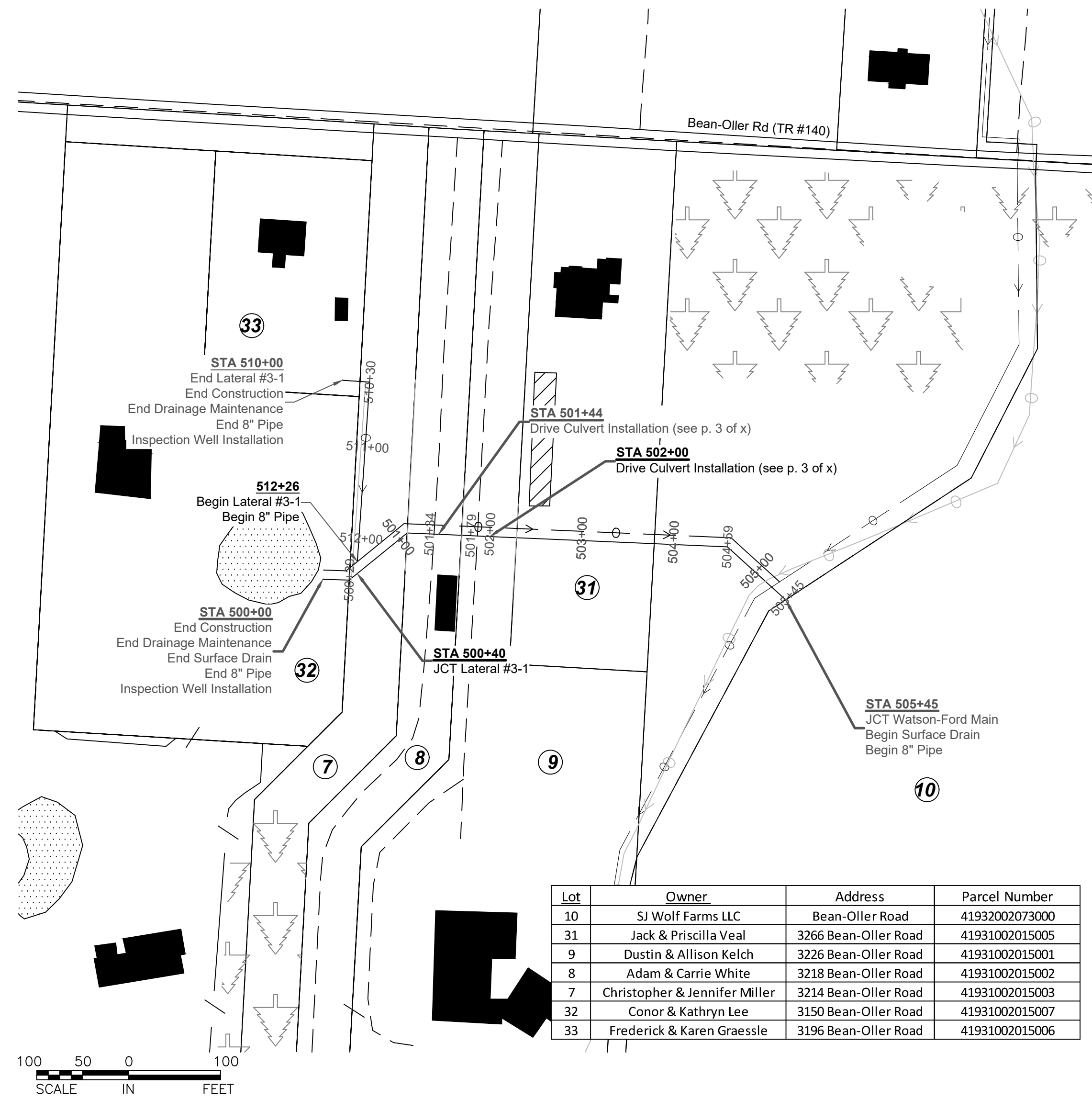
- Existing SSD
- Proposed Mains
- Building
- Septic System
- Pond
- Woodlands
- Road
- Driveway
- Benchmark

Lateral #1			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocation	475	Lineal Feet
NRCS 606	8" Pipe, Perforated	195	Lineal Feet
NRCS 606	8" Pipe, Non-Perforated	6	Each
NRCS 606	Tile Inspection Well	40	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Asphalt Road	LUMP	
ODOT 614	Traffic Maintenance	1,500	Square Yards
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)		

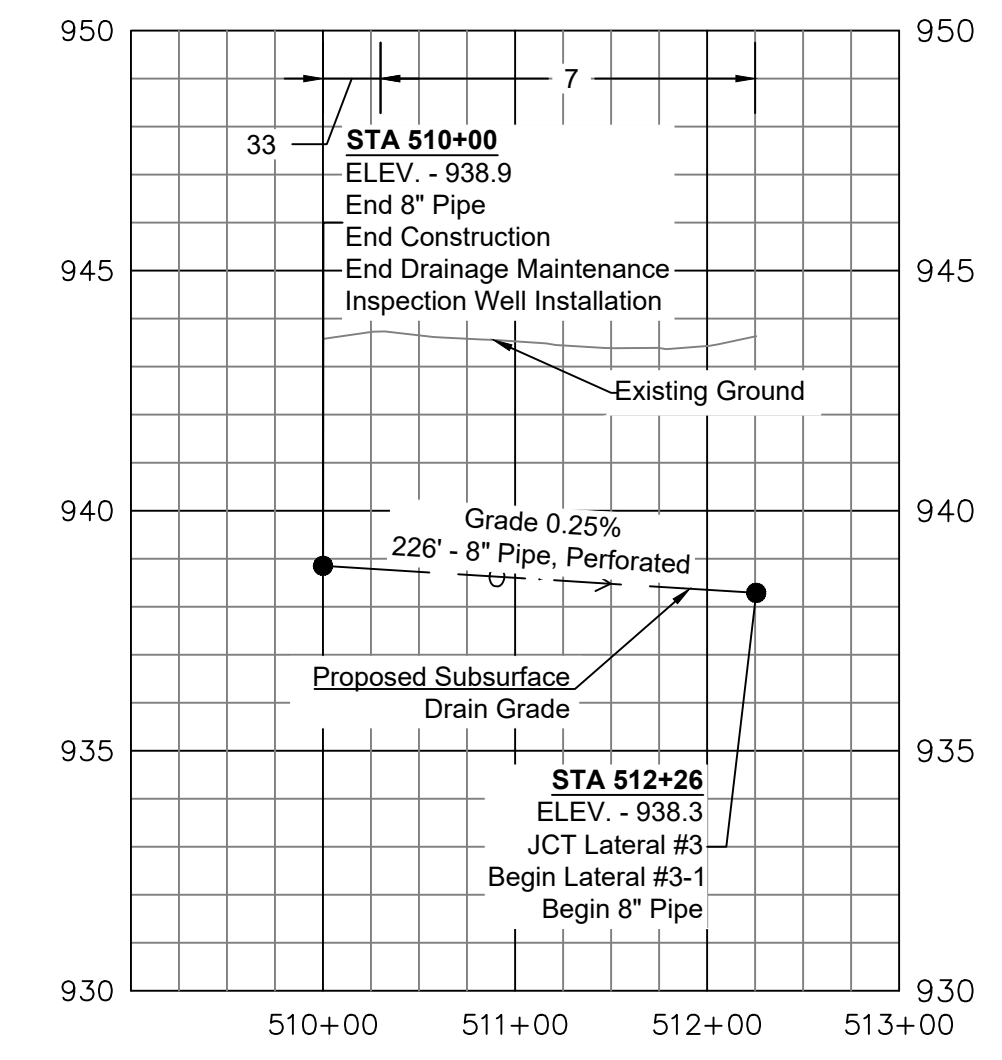
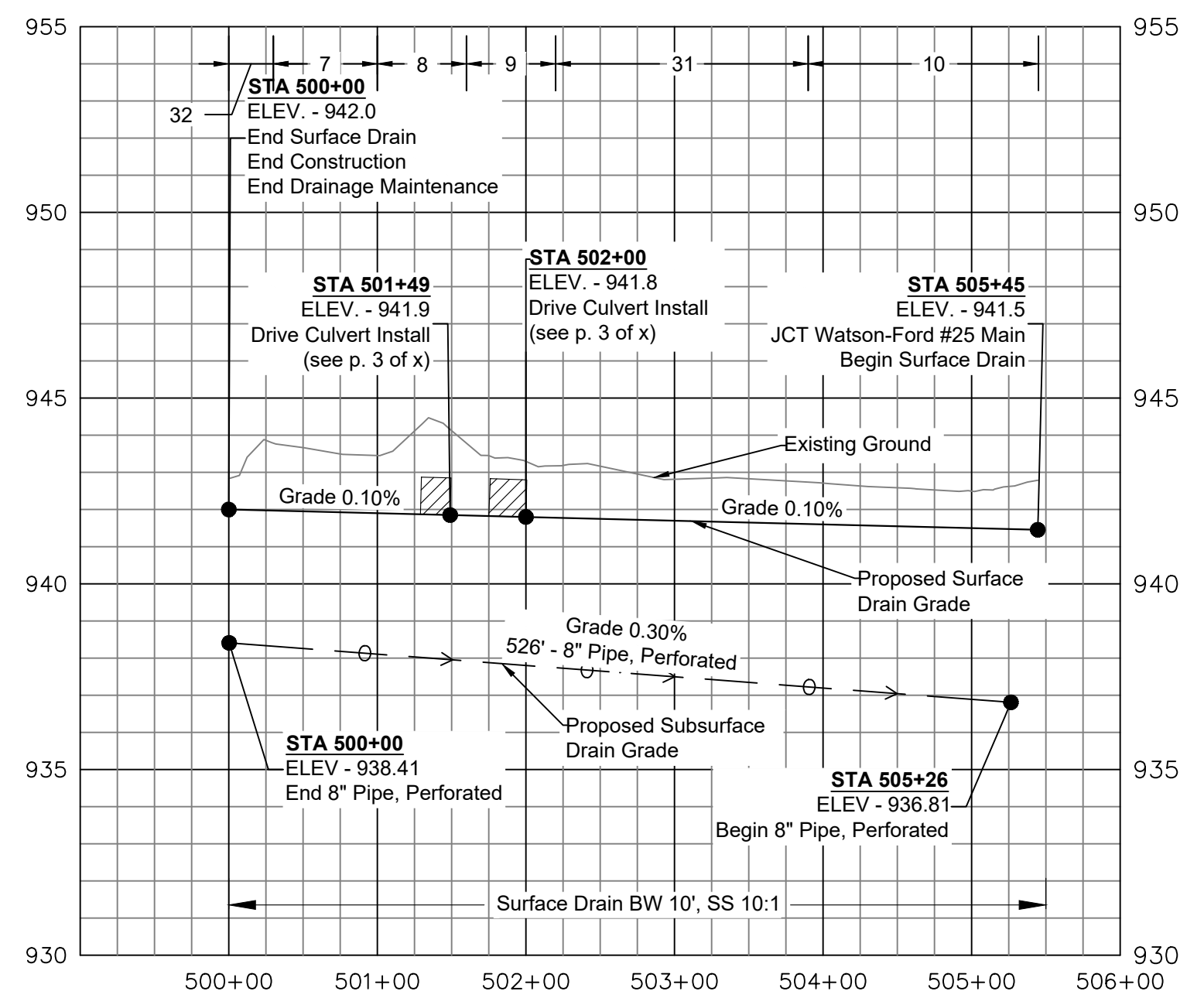
  

Lateral #2			
Item	Description	Quantity	Unit
NRCS 606	8" Pipe, Perforated	1,175	Lineal Feet
NRCS 606	10" Pipe, Non-Perforated	511	Lineal Feet
NRCS 606	Tile Inspection Well	6	Each
NRCS 608	Surface Drain - Swale	1,686	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	2,500	Square Yards

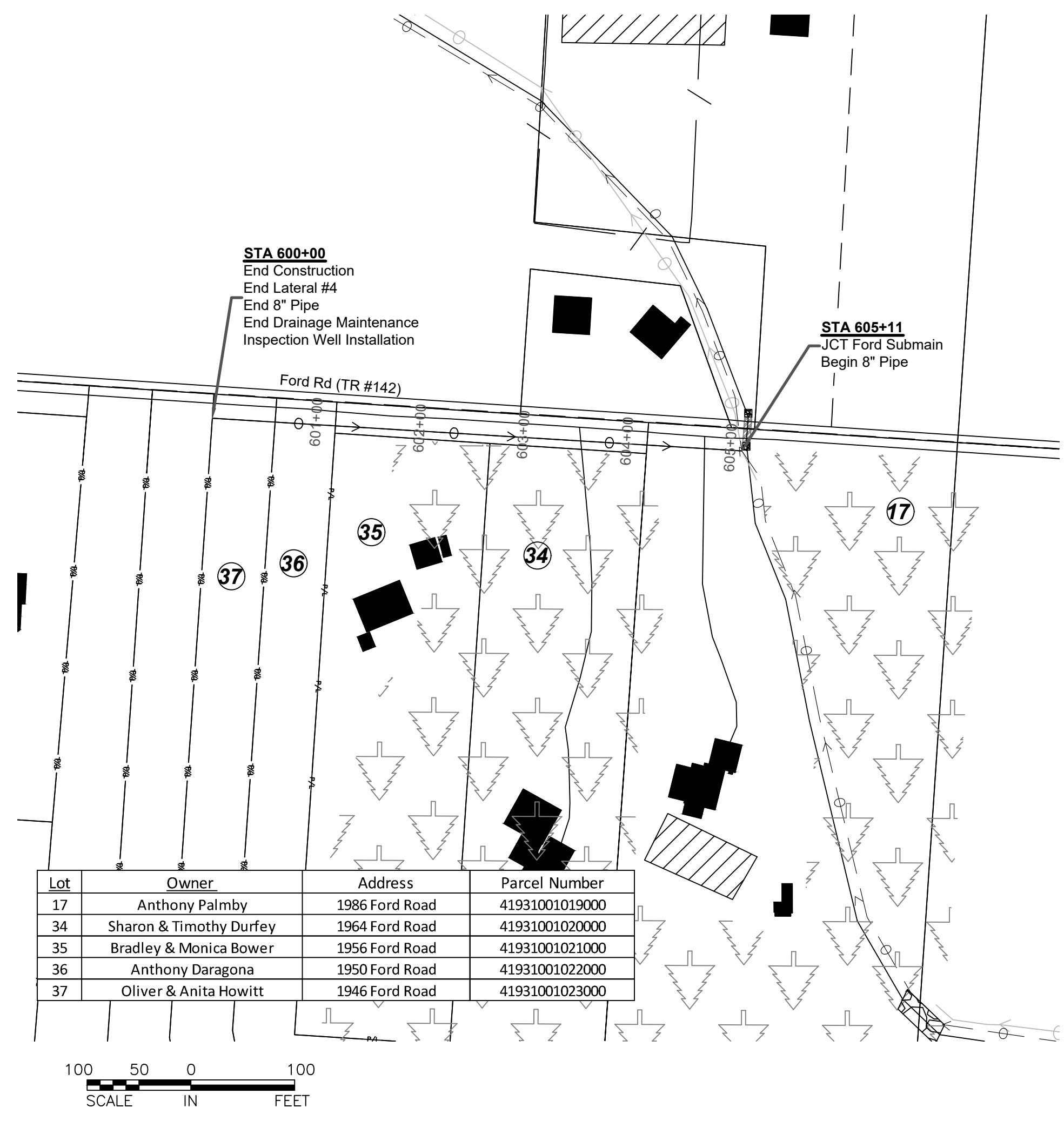
LATERAL #3 & 3-1 PLAN VIEW



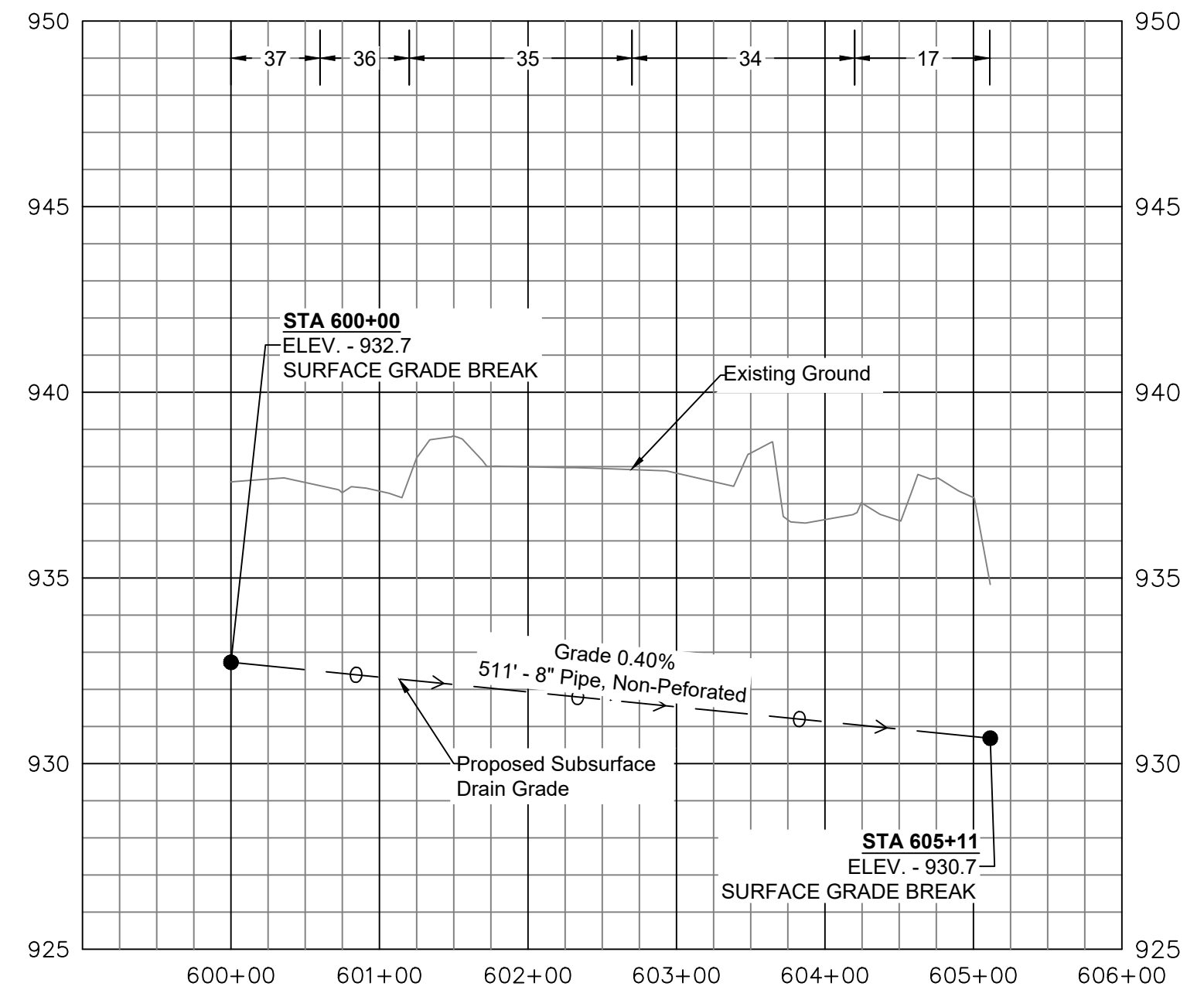
LATERAL #3 & 3-1 PROFILE



LATERAL #4 PLAN VIEW



LATERAL #4 PROFILE



LEGEND

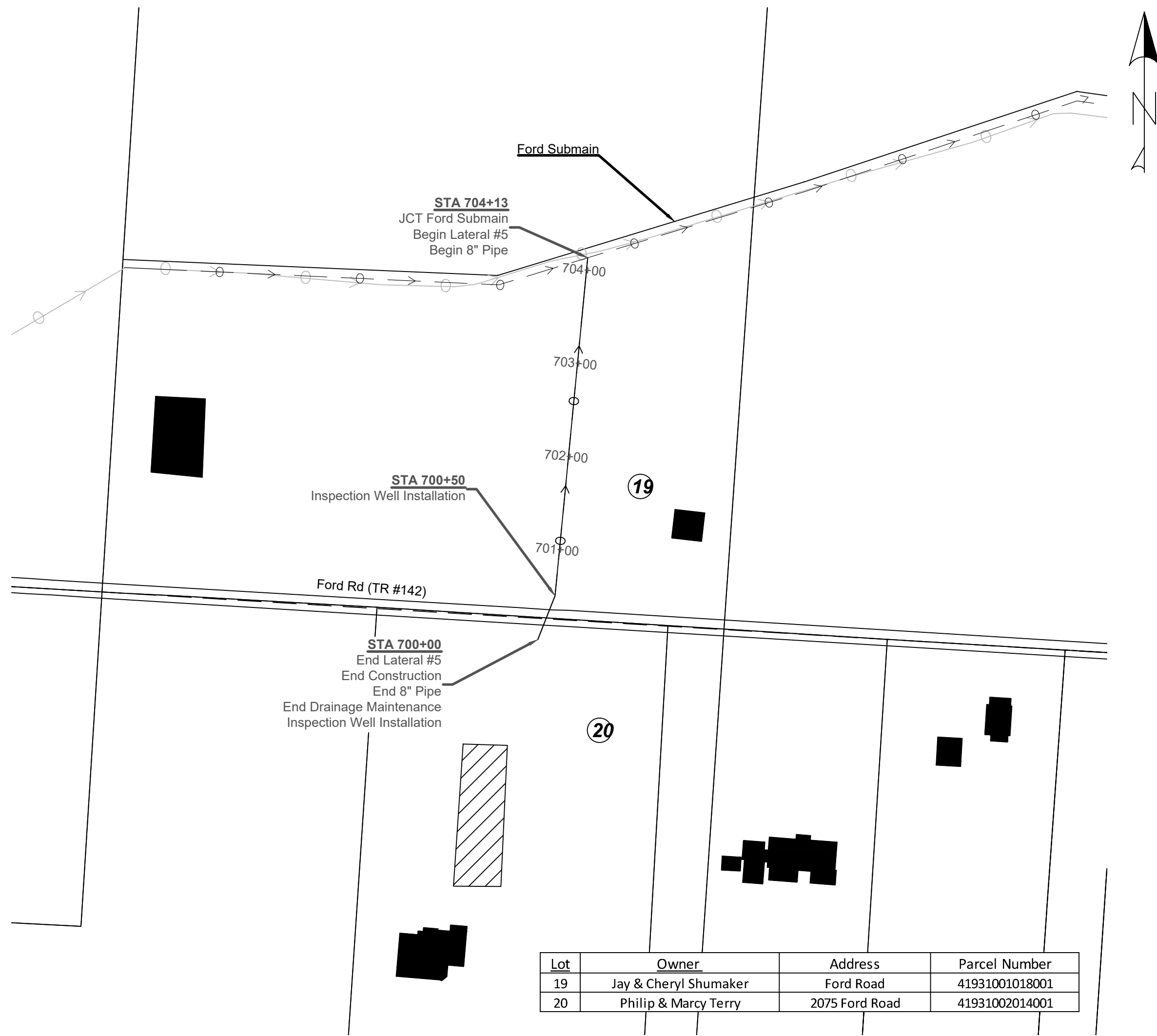
- Existing SSD
- Proposed Mains
- Building
- Septic System
- Pond
- Woodlands
- Road
- Driveway
- Benchmark

**CONSTRUCTION NOTES**

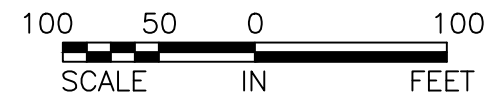
- All General Construction Notes on P. 2 of 19 shall apply.
- Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.
- Details to be referenced on p. 2 of 19:  
Typical Surface Drain Cross Section  
Typical Subsurface Drain Installation  
Typical Subsurface Drain Lateral Connection  
Inspection Well Installation
- All spoil is to be exported from the site per General Construction Note #5. Payment for spoil export shall be considered as incidental to payment for NRCS Items #582 and #608.
- Written notice must be provided to any property owner affected by installation of the drive culverts a minimum of seven calendar days prior to commencing the installation. Copies of written notice must be provided to the Construction Supervisor upon delivery to the property owners. Drive culvert installations should be planned such as to be completed within one working day. Drives must be made accessible at the completion of a working day either by completion of the installation or by temporary plating.

Lateral #3 & 3-1				
Item	Description	Quantity	Unit	
SPECIAL	Utility Relocation	LUMP		
NRCS 606	8" Pipe, Perforated	712	Lineal Feet	
NRCS 606	Tile Inspection Well	6	Each	
NRCS 608	Surface Drain - Swale	545	Lineal Feet	
ODOT 611	12" Pipe (707.33), Type A Installation, Asphalt Drive	50	Lineal Feet	
ODOT 611	8" Pipe (707.33), Type B Installation, Asphalt Drive	40	Lineal Feet	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	3,000	Square Yards	
Lateral #4				
SPECIAL	Utility Relocation	LUMP		
NRCS 606	8" Pipe, Non-Perforated	411	Lineal Feet	
NRCS 606	Tile Inspection Well	5	Each	
ODOT 611	8" Pipe (707.33), Type B Installation, Gravel Drive	100	Lineal Feet	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	1,200	Square Yards	

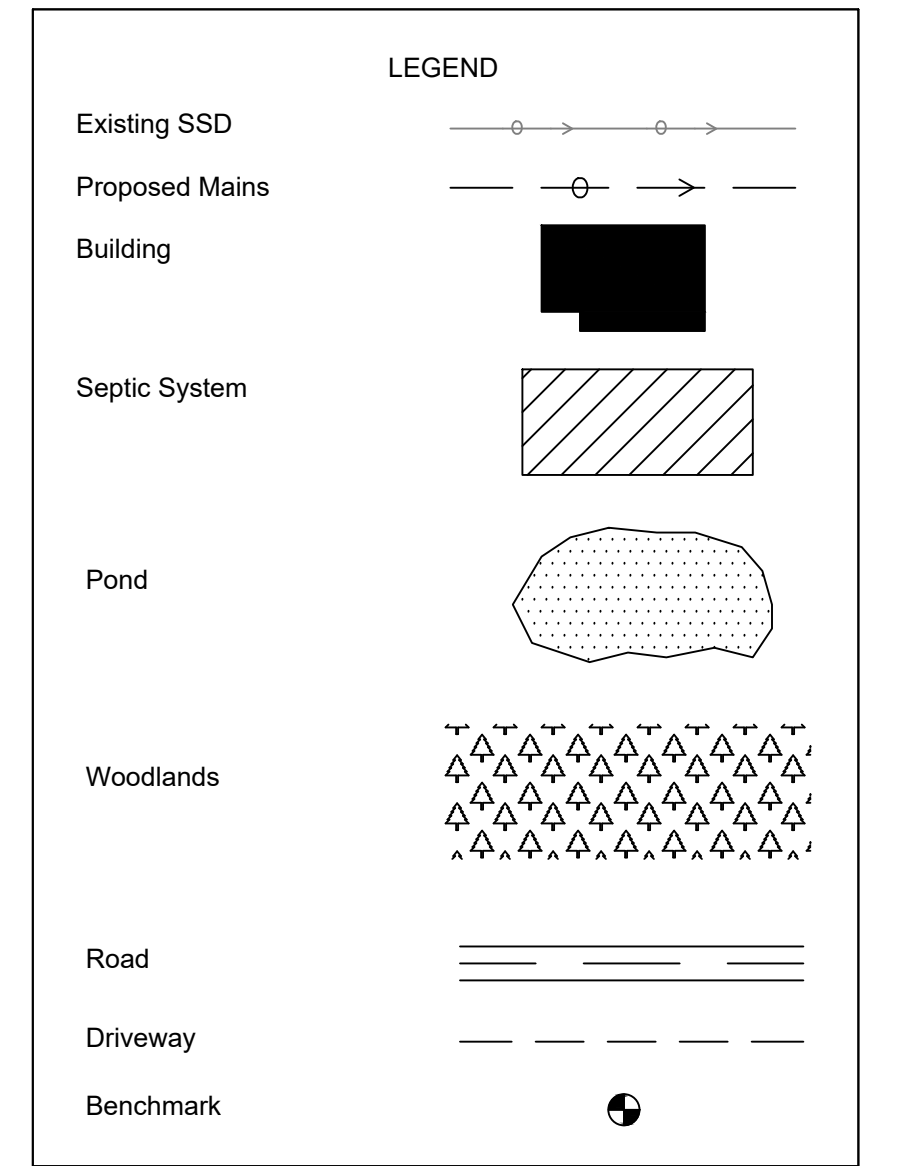
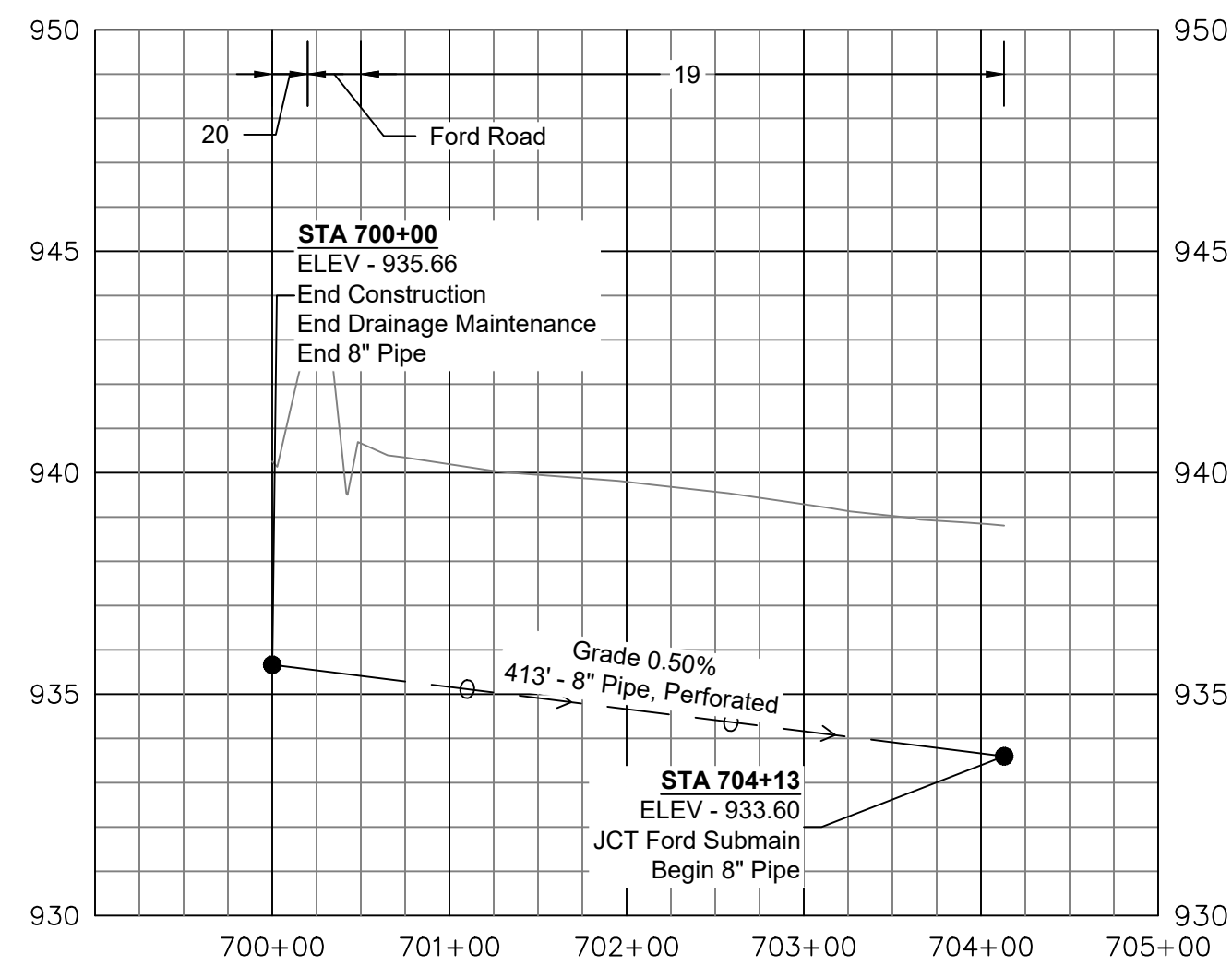
LATERAL #5 PLAN VIEW



Lot	Owner	Address	Parcel Number
19	Jay & Cheryl Shumaker	Ford Road	41931001018001
20	Philip & Marcy Terry	2075 Ford Road	41931002014001



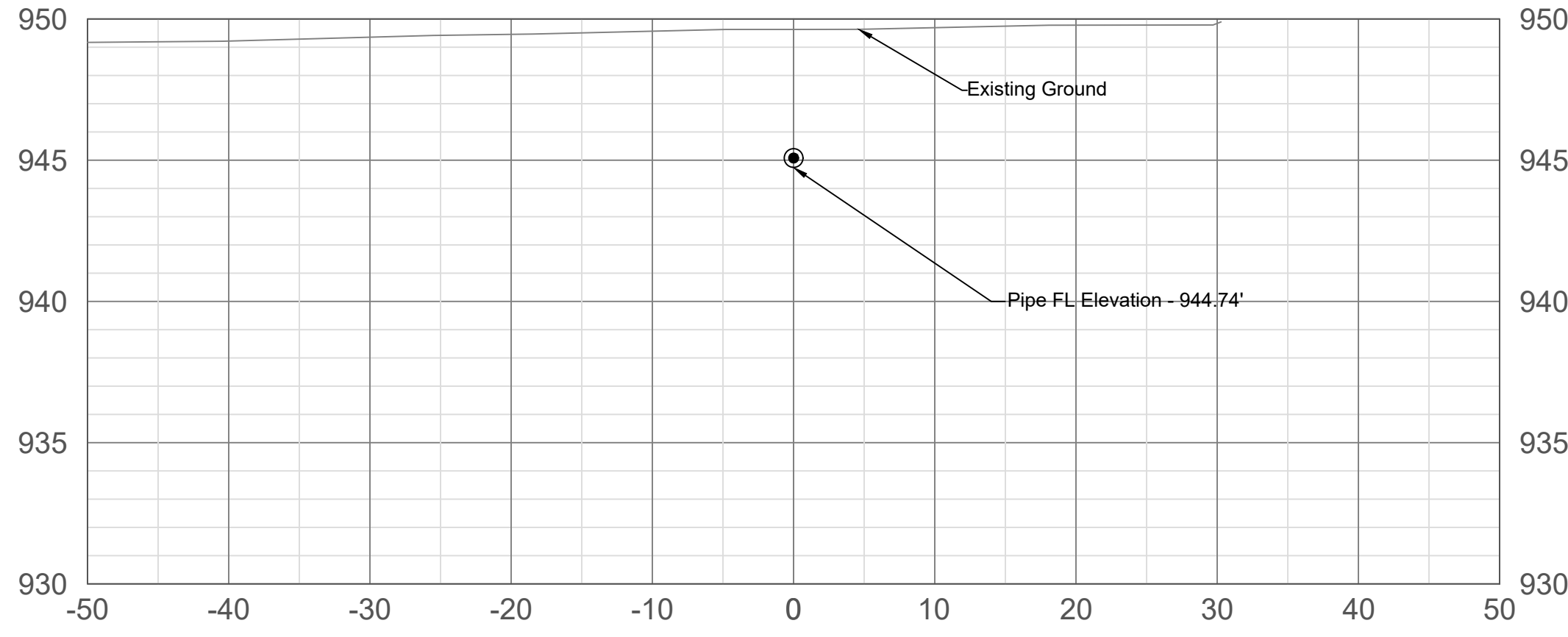
LATERAL #5 PROFILE



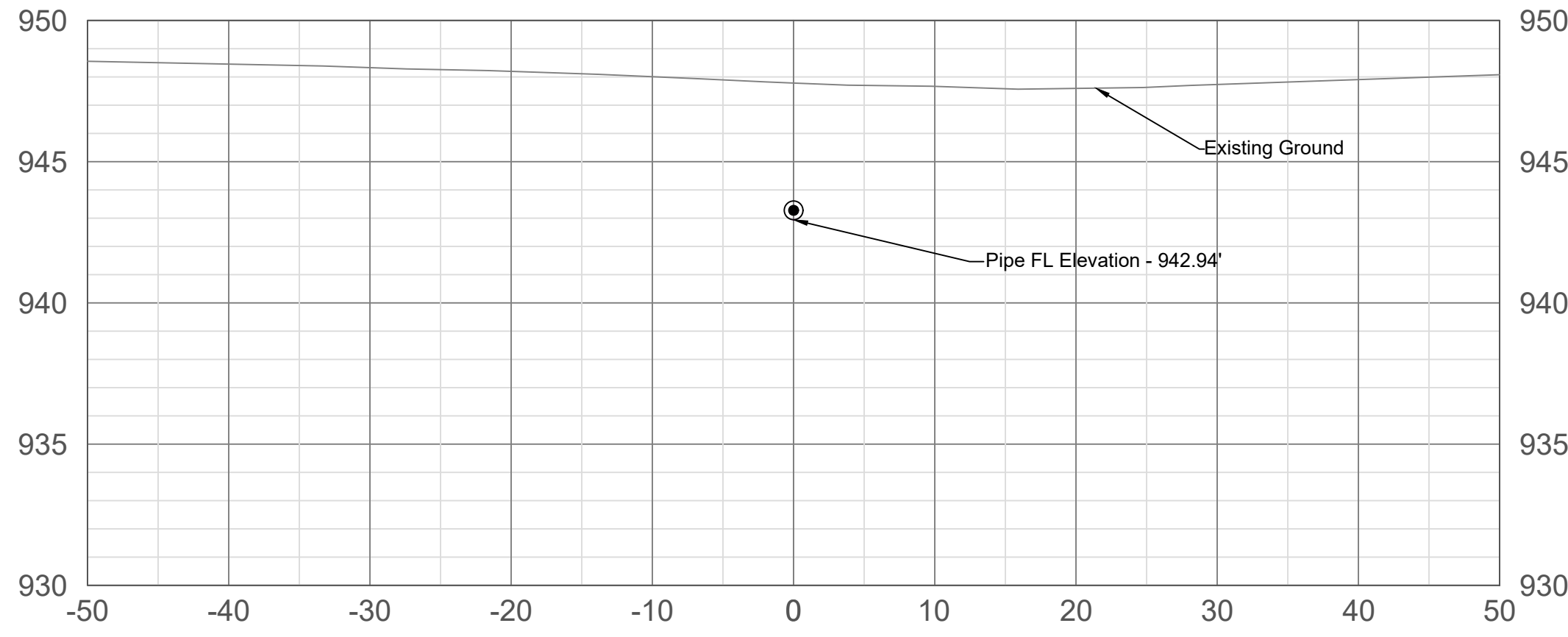
- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 19 shall apply.
  - Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.
  - Details to be referenced on p. 2 of 19:  
 Typical Surface Drain Cross Section  
 Typical Subsurface Drain Installation  
 Typical Subsurface Drain Lateral Connection  
 Inspection Well Installation
  - All spoil is to be exported from the site per General Construction Note #5. Payment for spoil export shall be considered as incidental to payment for NRCS Items #582 and #608.
  - Written notice must be provided to any property owner affected by installation of the drive culverts a minimum of seven calendar days prior to commencing the installation. Copies of written notice must be provided to the Construction Supervisor upon delivery to the property owners. Drive culvert installations should be planned such as to be completed within one working day. Drives must be made accessible at the completion of a working day either by completion of the installation or by temporary plating.

Lateral #5			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocation		LUMP
NRCS 606	8" Pipe, Perforated	373	Lineal Feet
NRCS 606	Tile Inspection Well	2	Each
ODOT 614	Traffic Maintenance		LUMP
ODOT 611	8" Pipe (707.33), Type B Installation, Asphalt Road	40	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	200	Square Yards

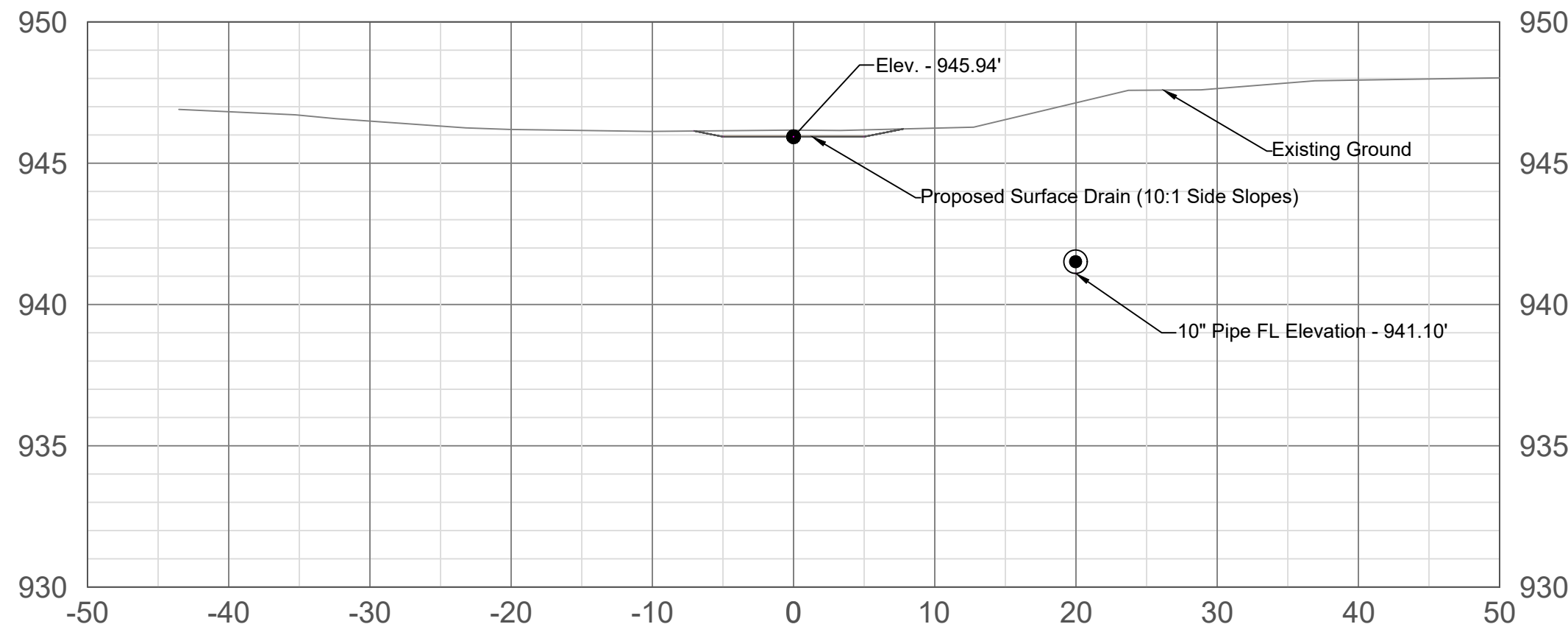
STA 100+00 - Watson-Ford Main



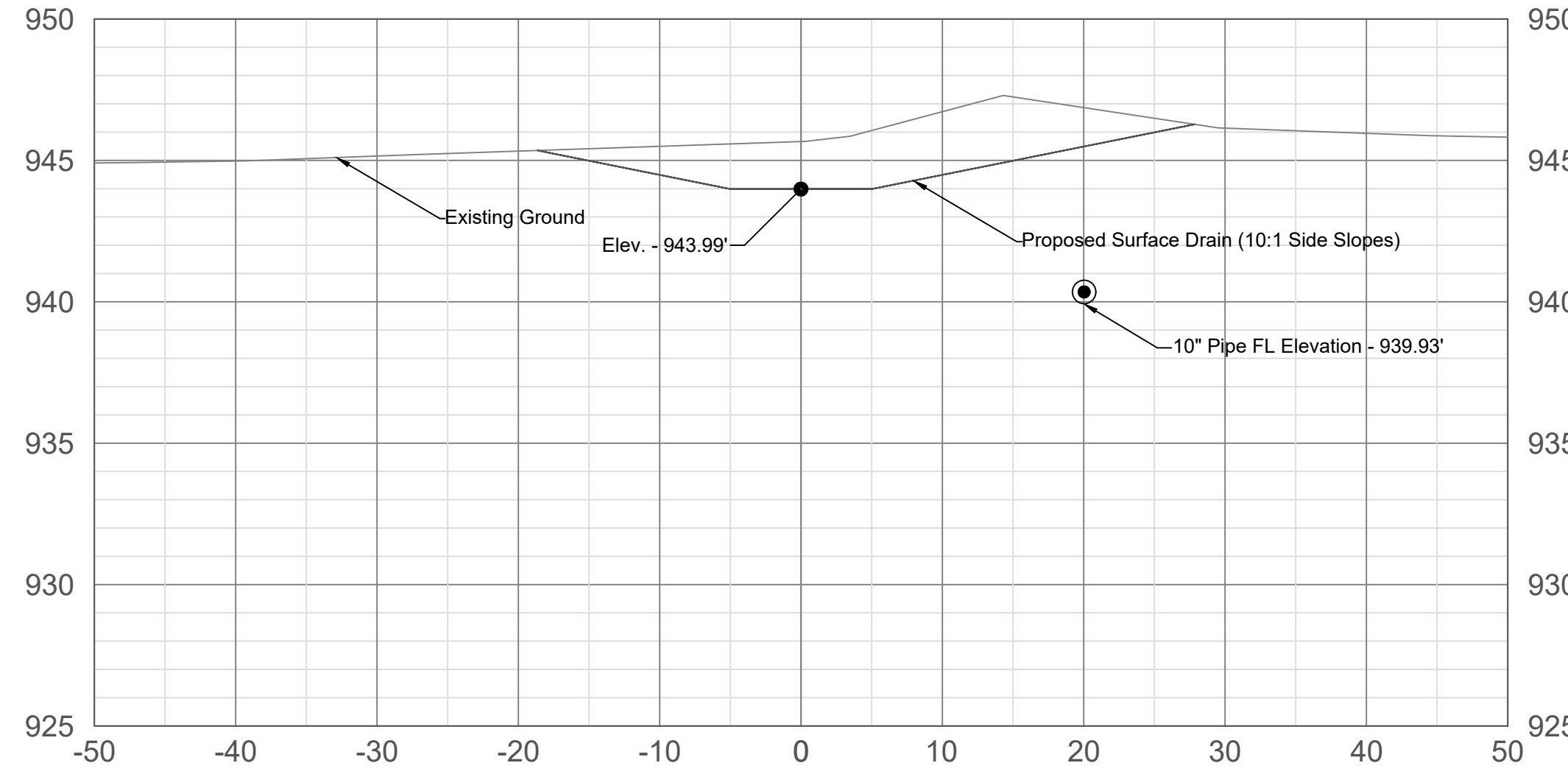
STA 102+00 - Watson-Ford Main



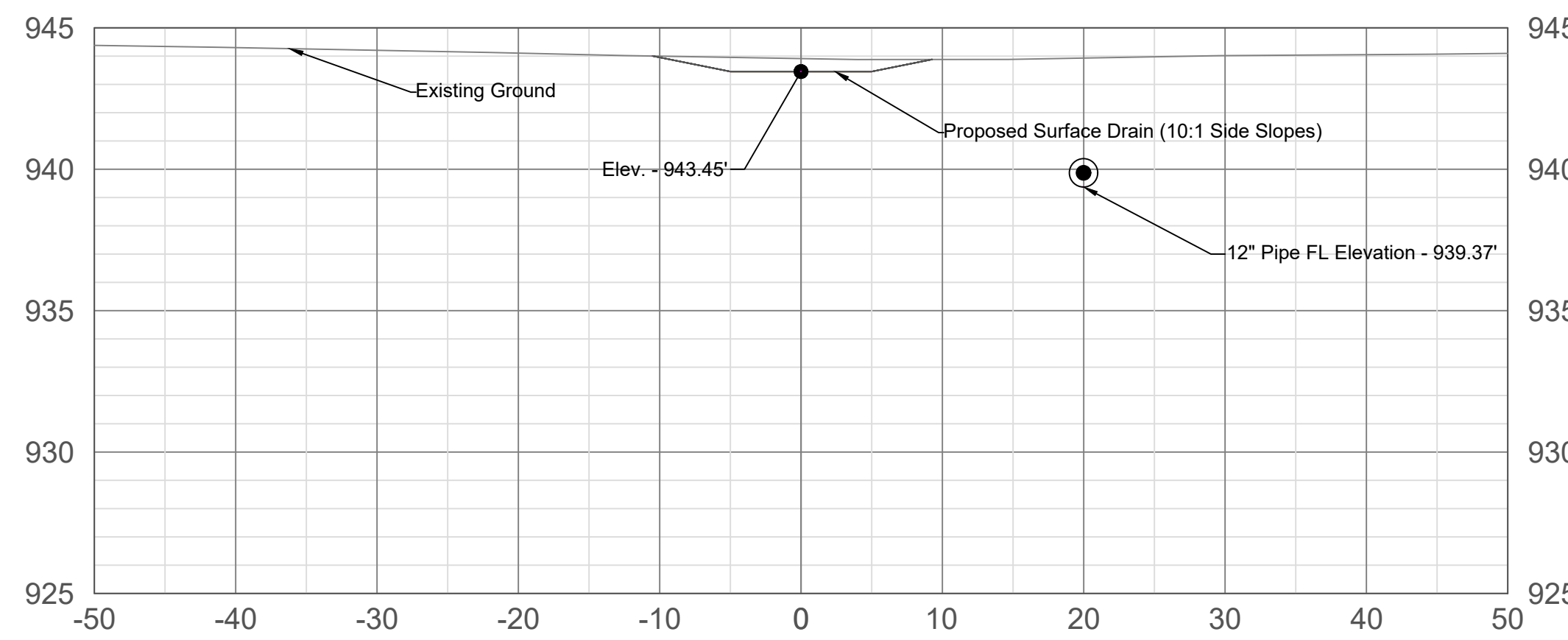
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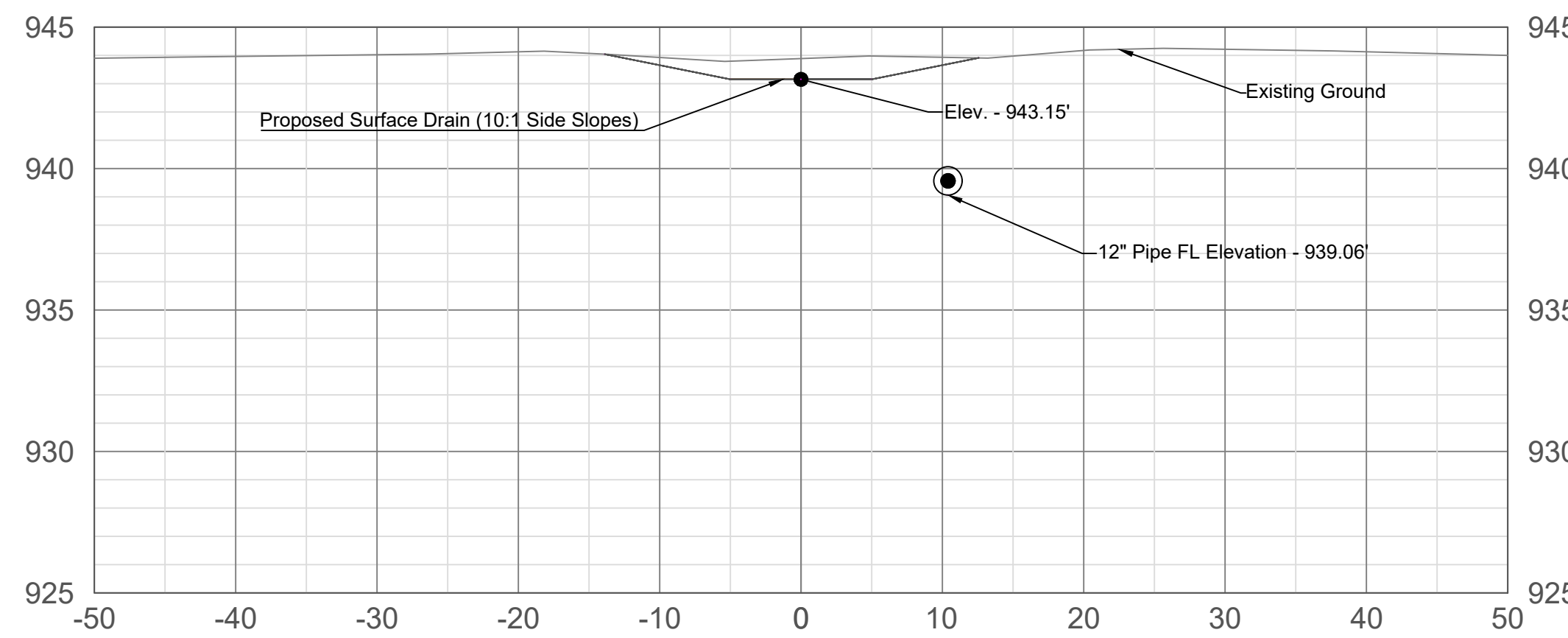
STA 108+00 - Watson-Ford Main



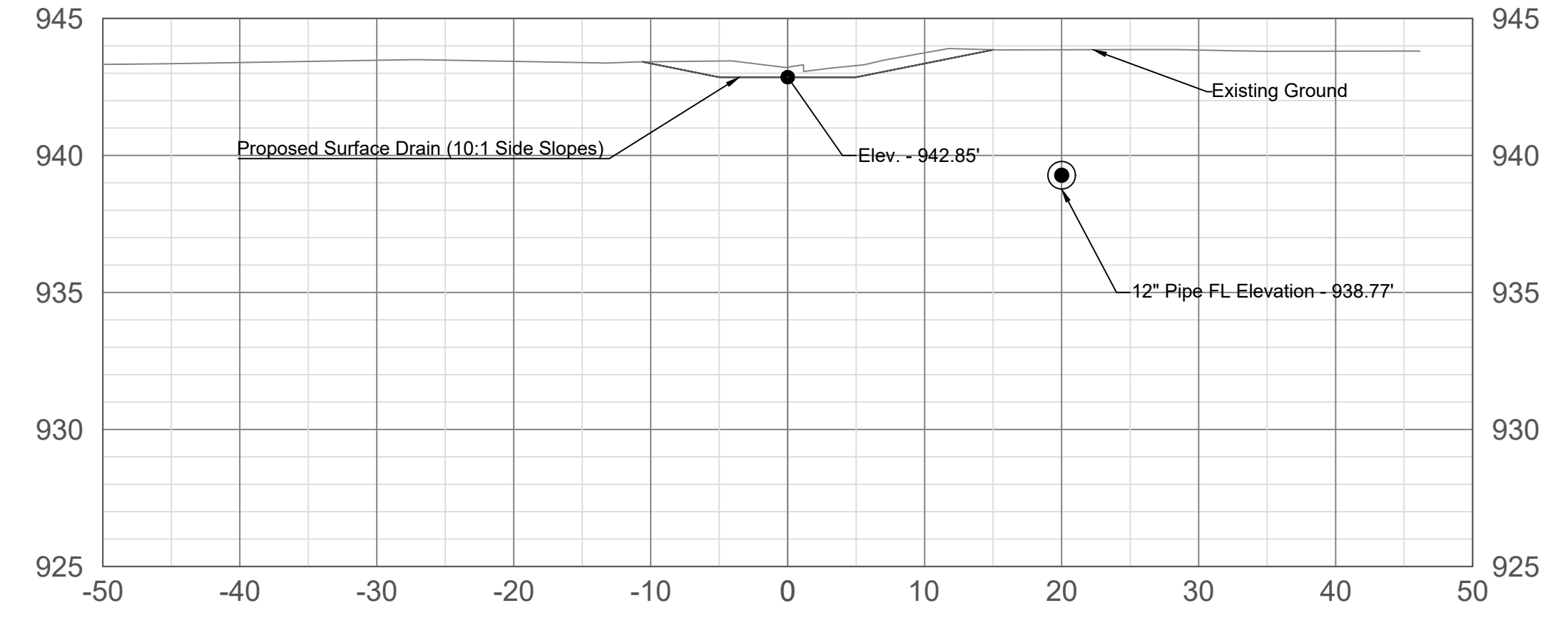
STA 111+00 - Watson-Ford Main



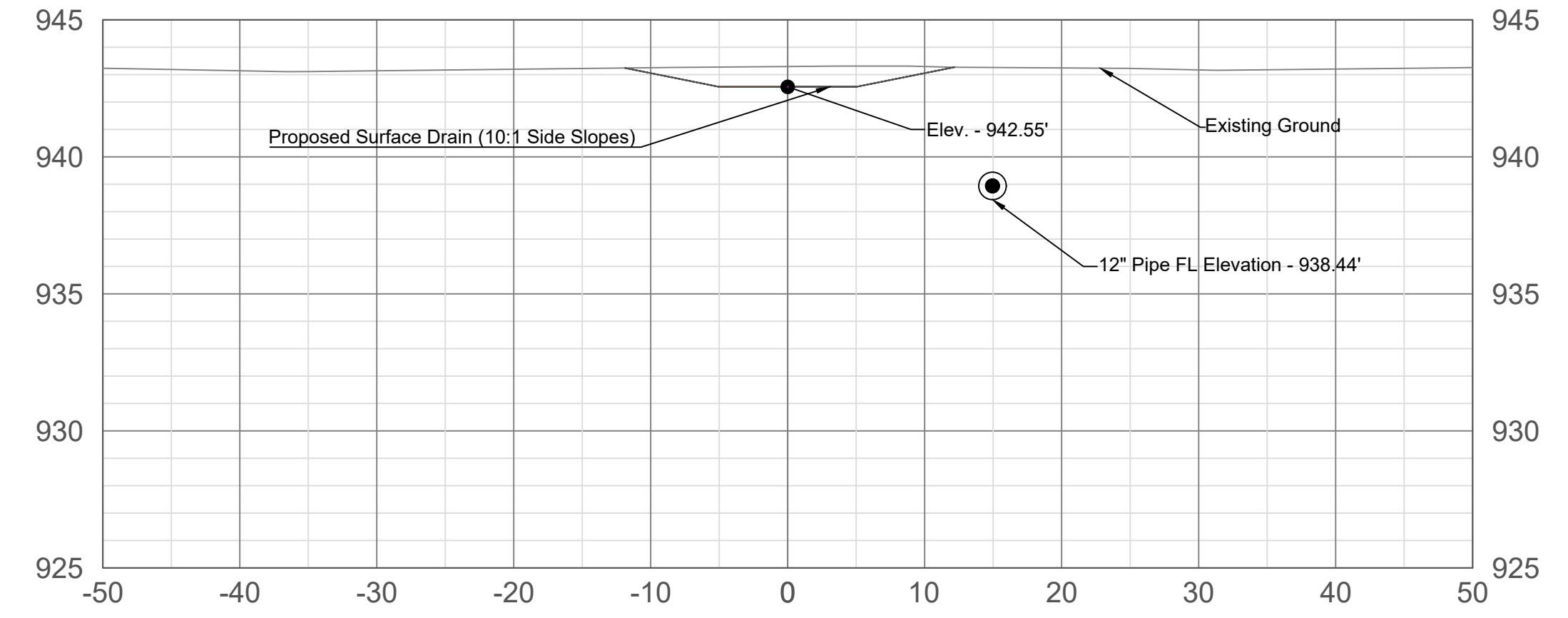
STA 114+00 - Watson-Ford Main



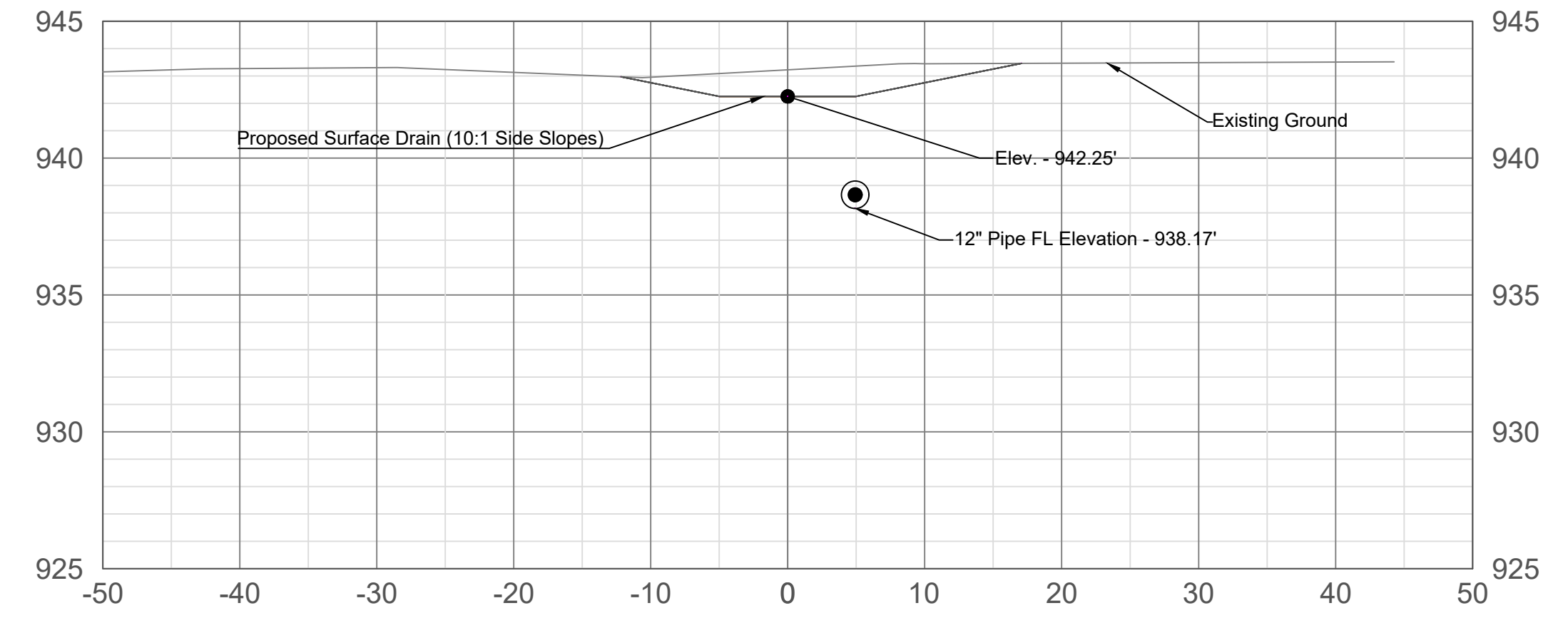
STA 117+00 - Watson-Ford Main



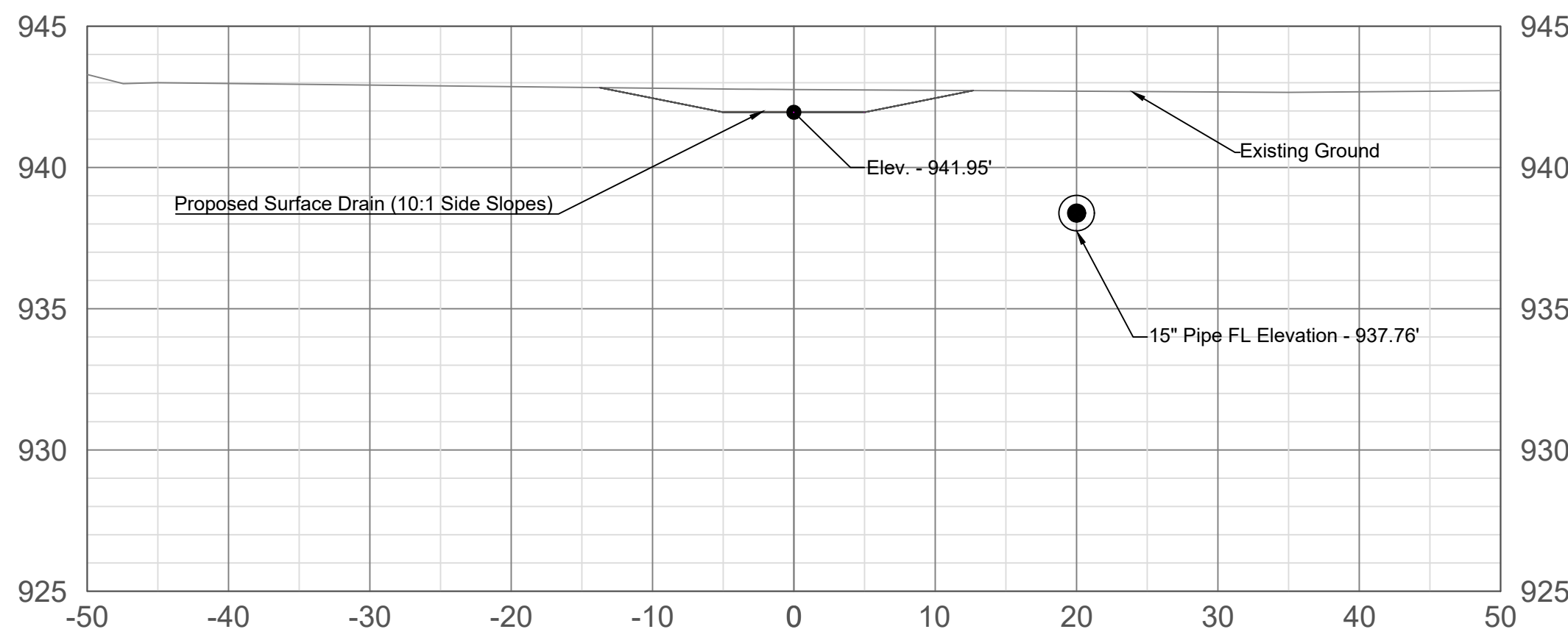
STA 120+00 - Watson-Ford Main



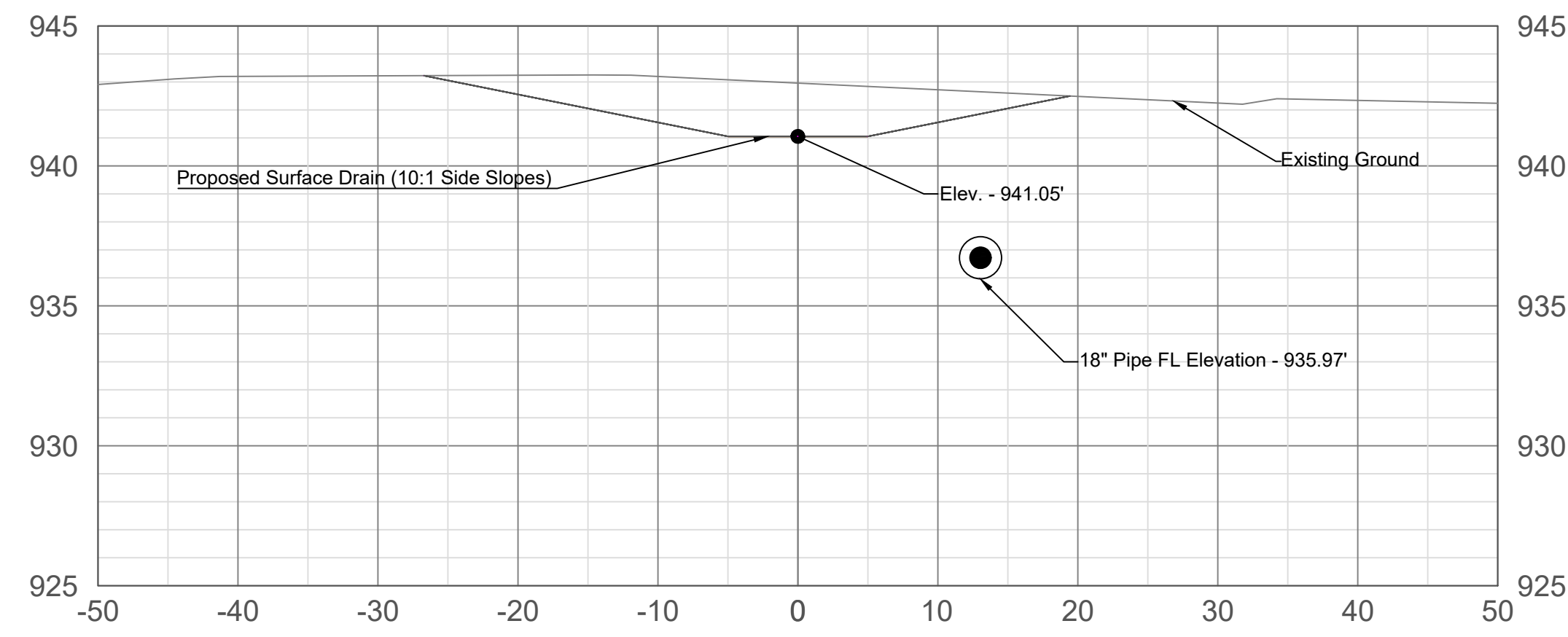
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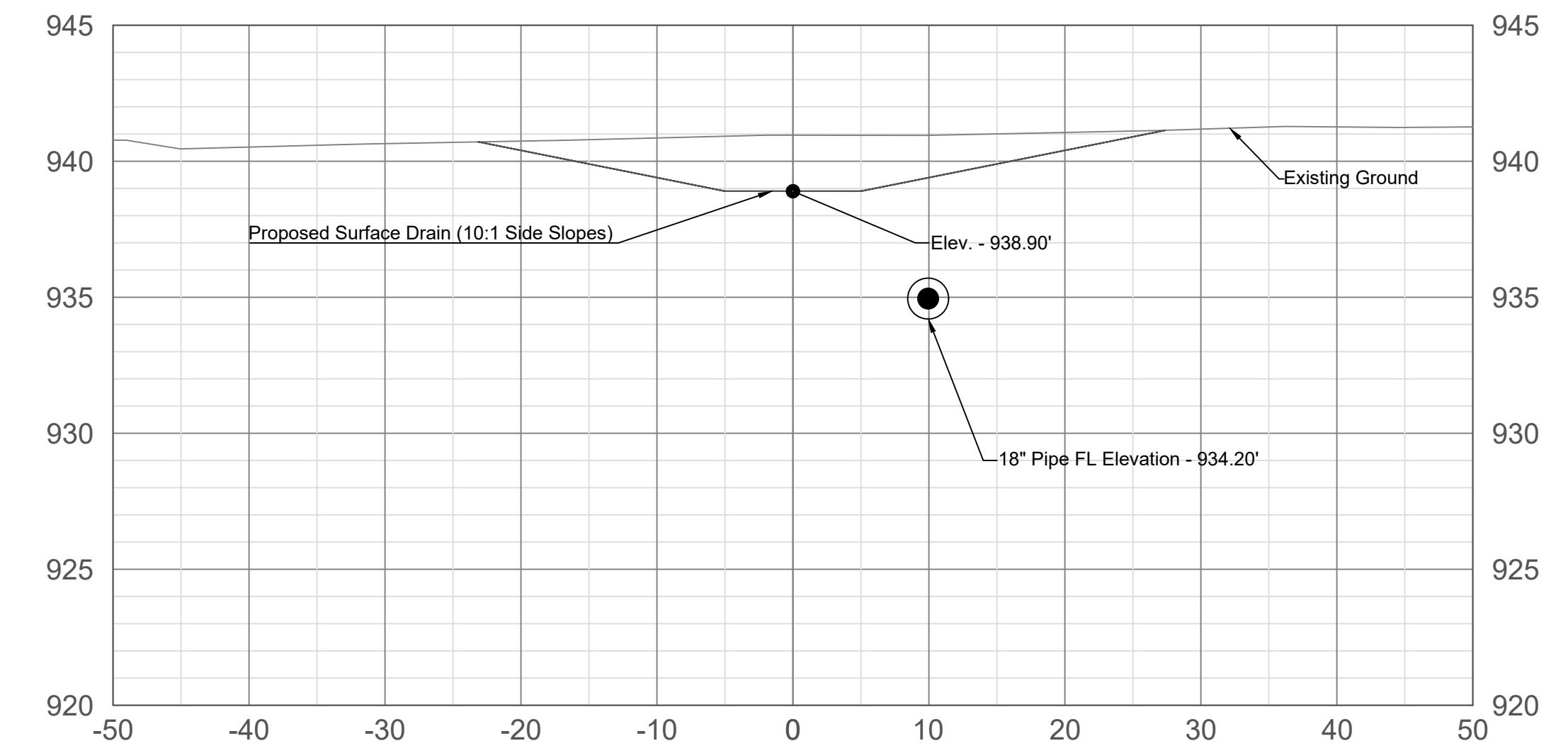
STA 126+00 - Watson-Ford Main



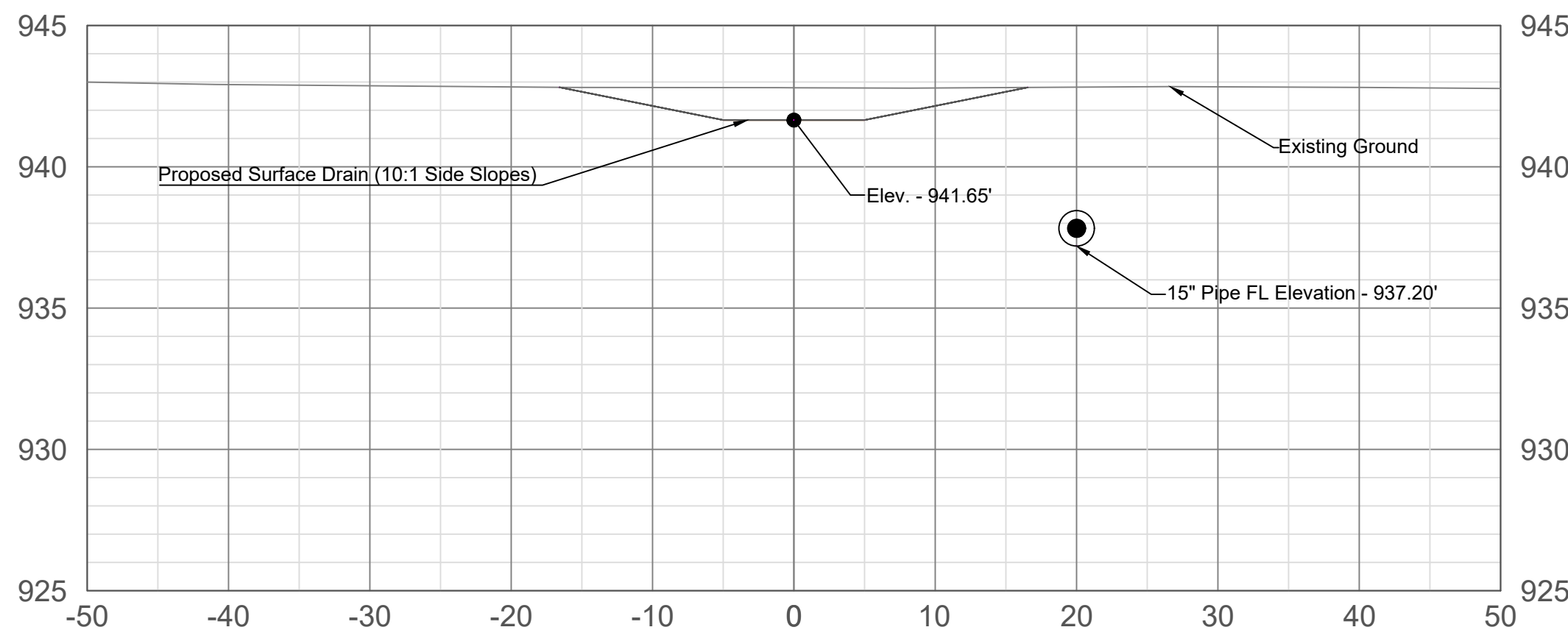
STA 135+00 - Watson-Ford Main



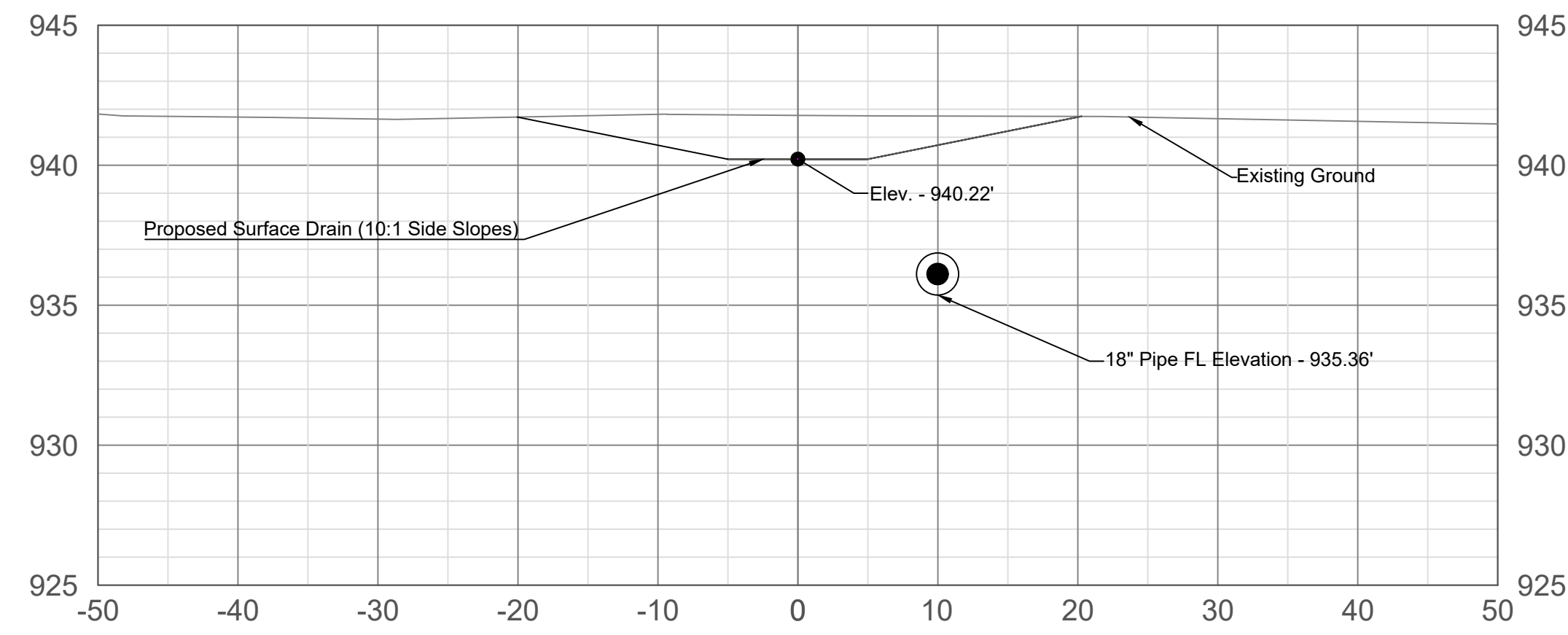
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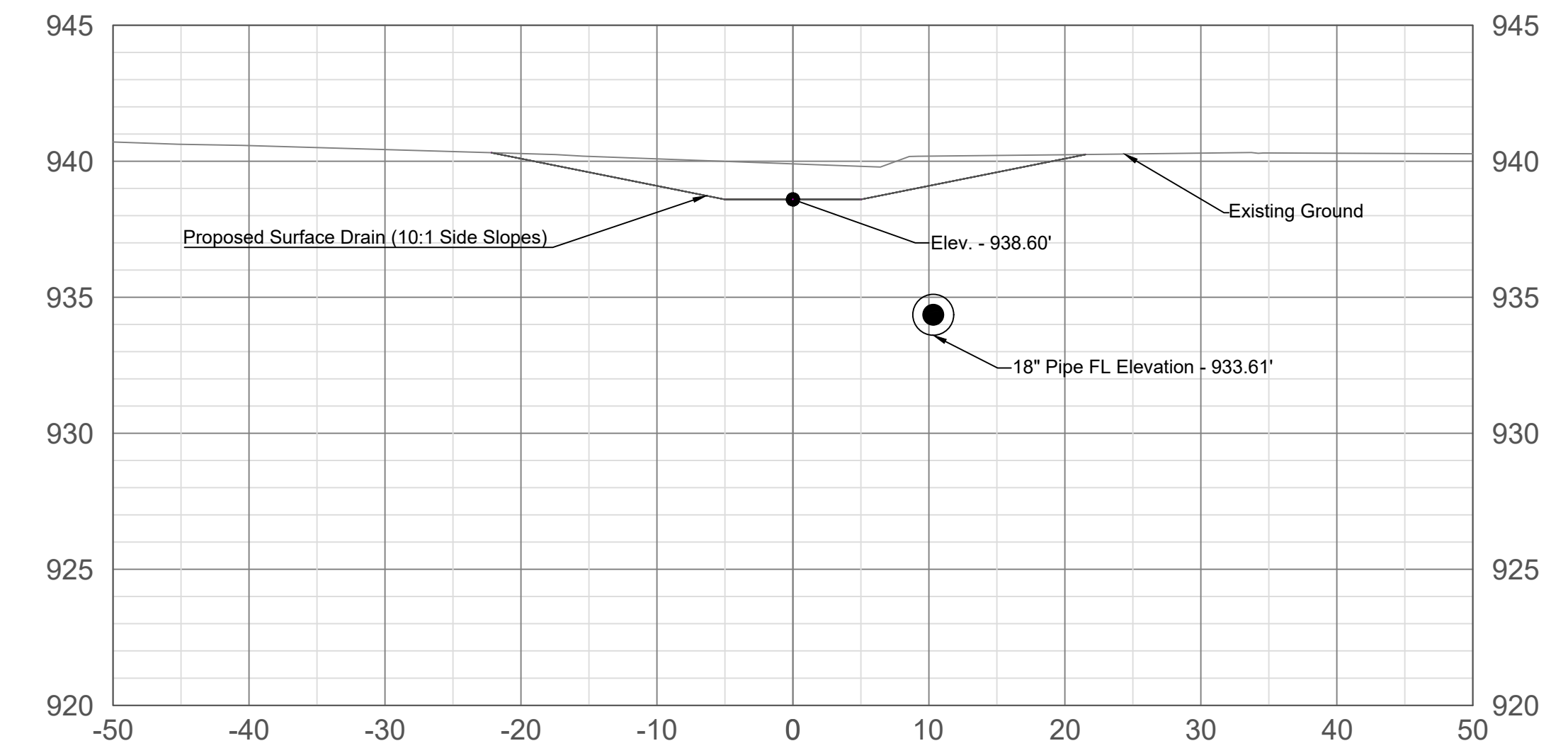
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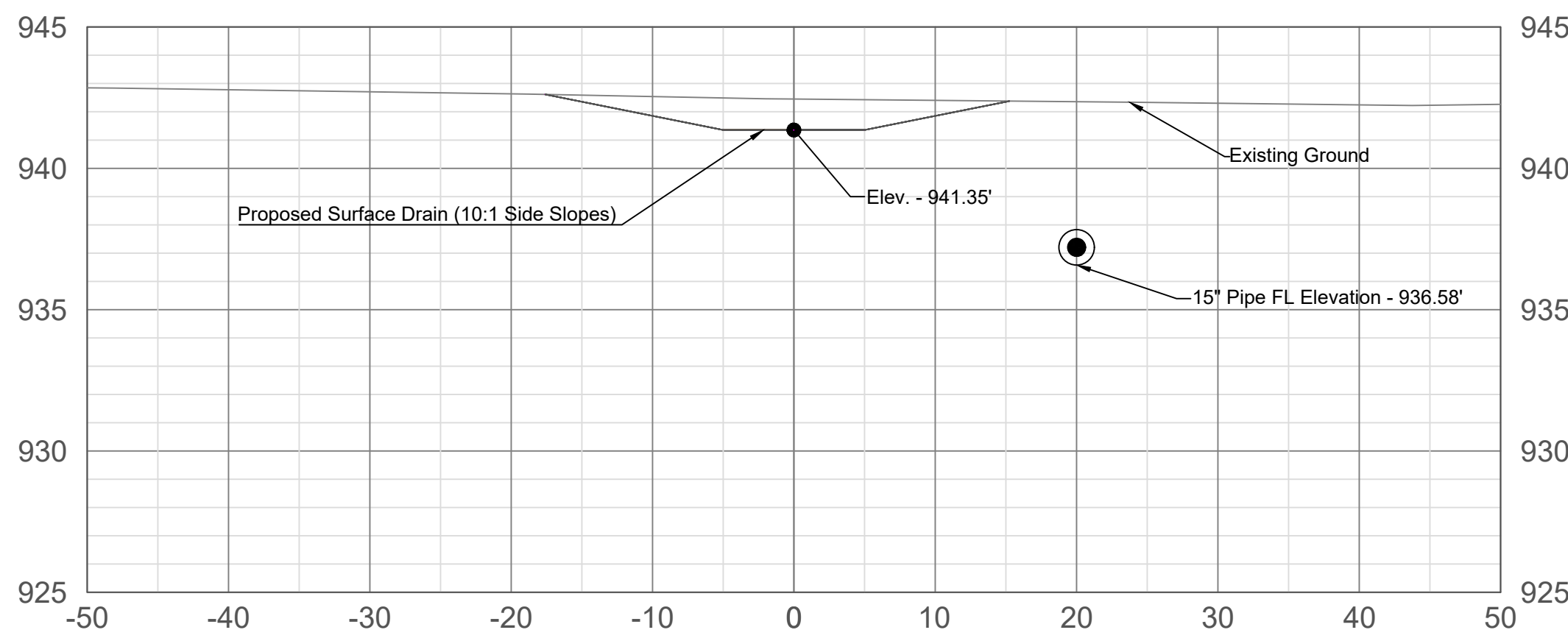
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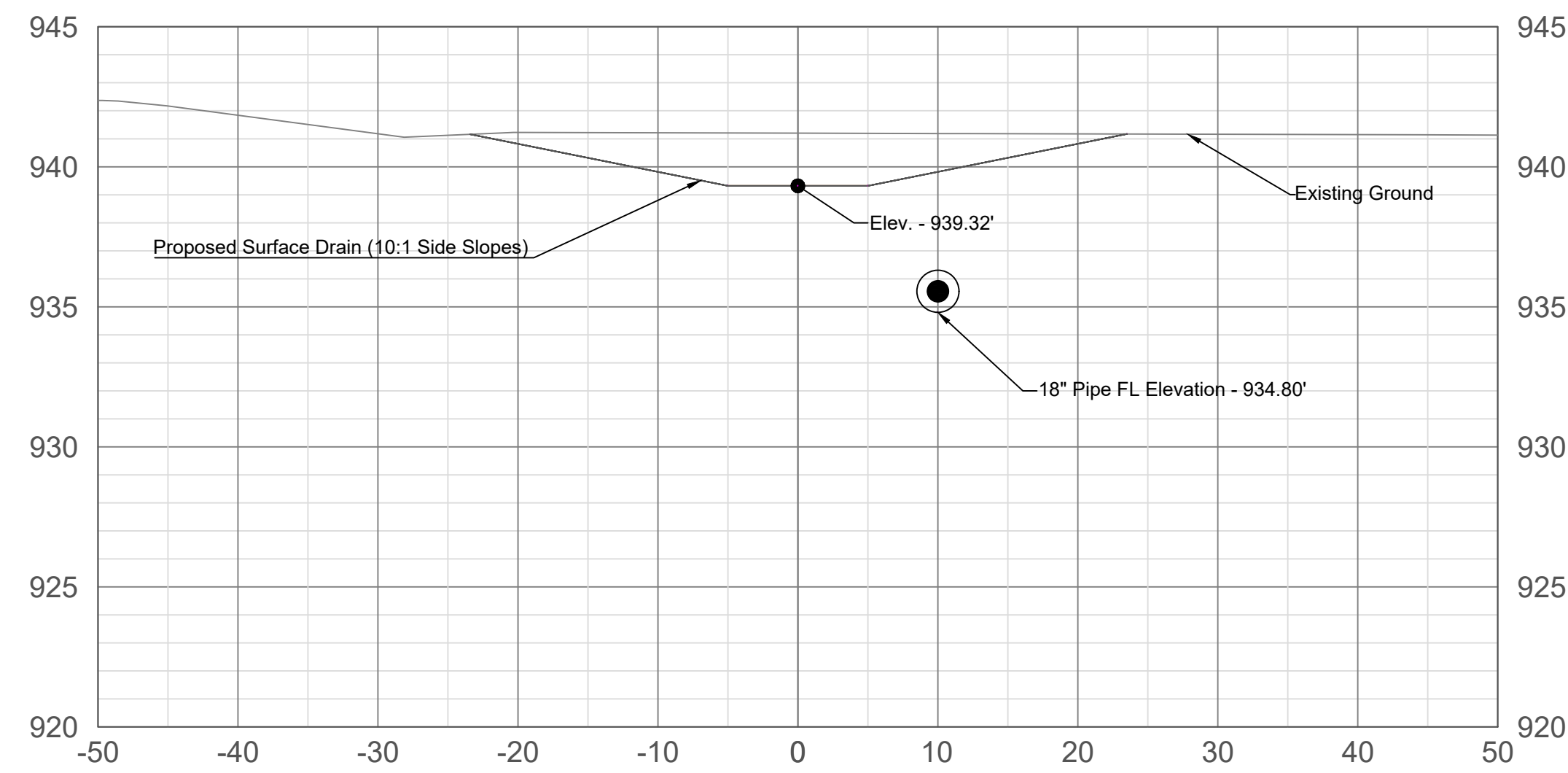
STA 147+00 - Watson-Ford Main



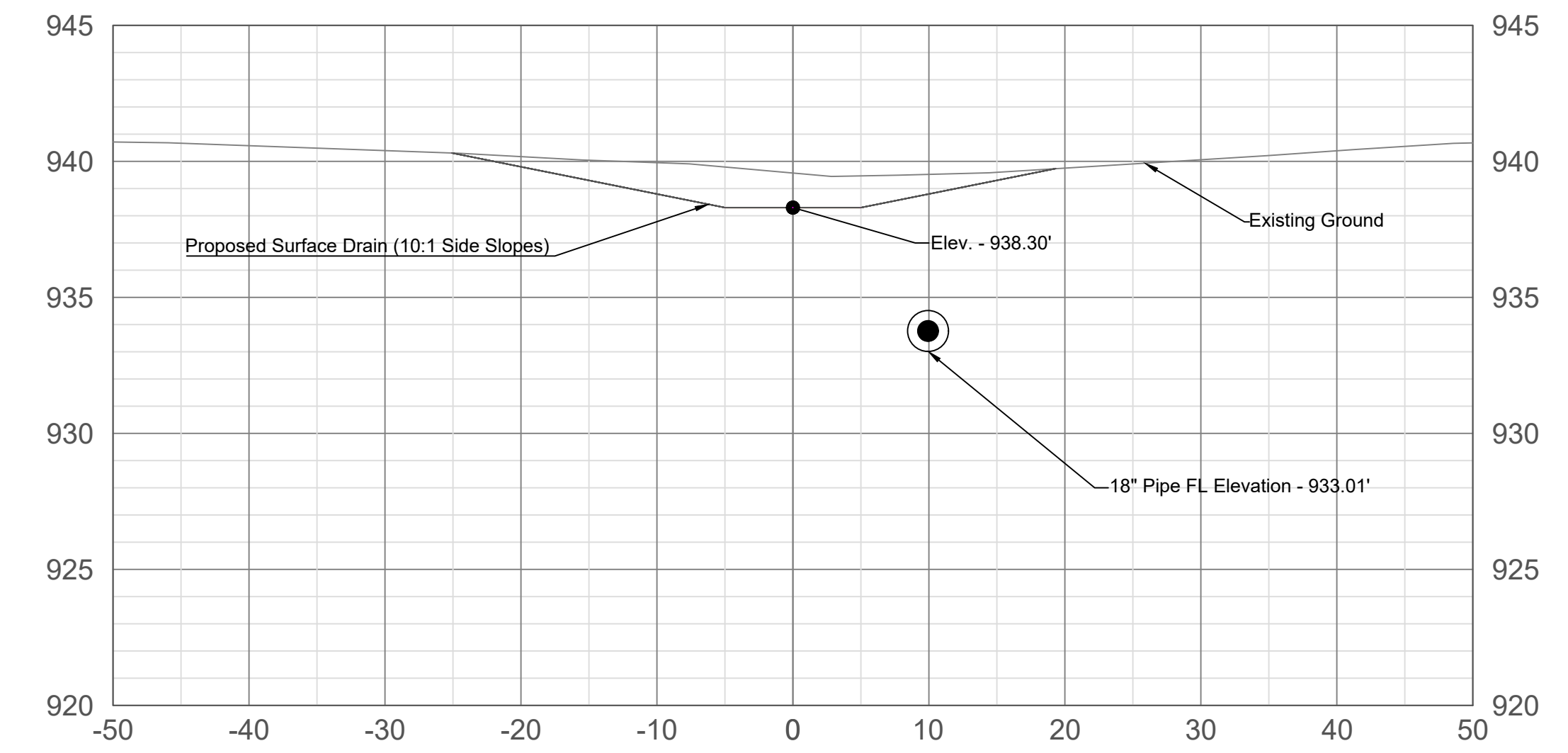
STA 132+00 - Watson-Ford Main



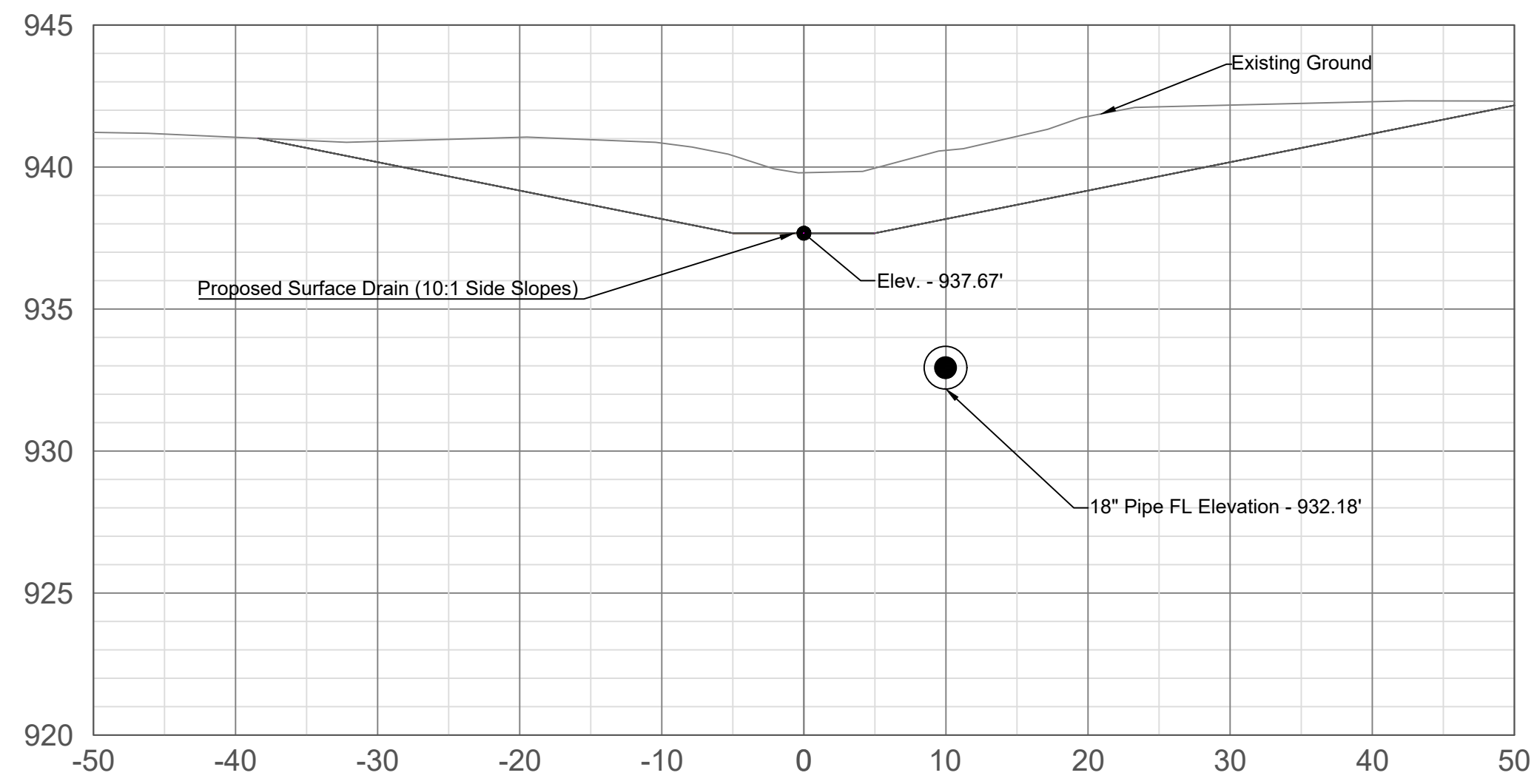
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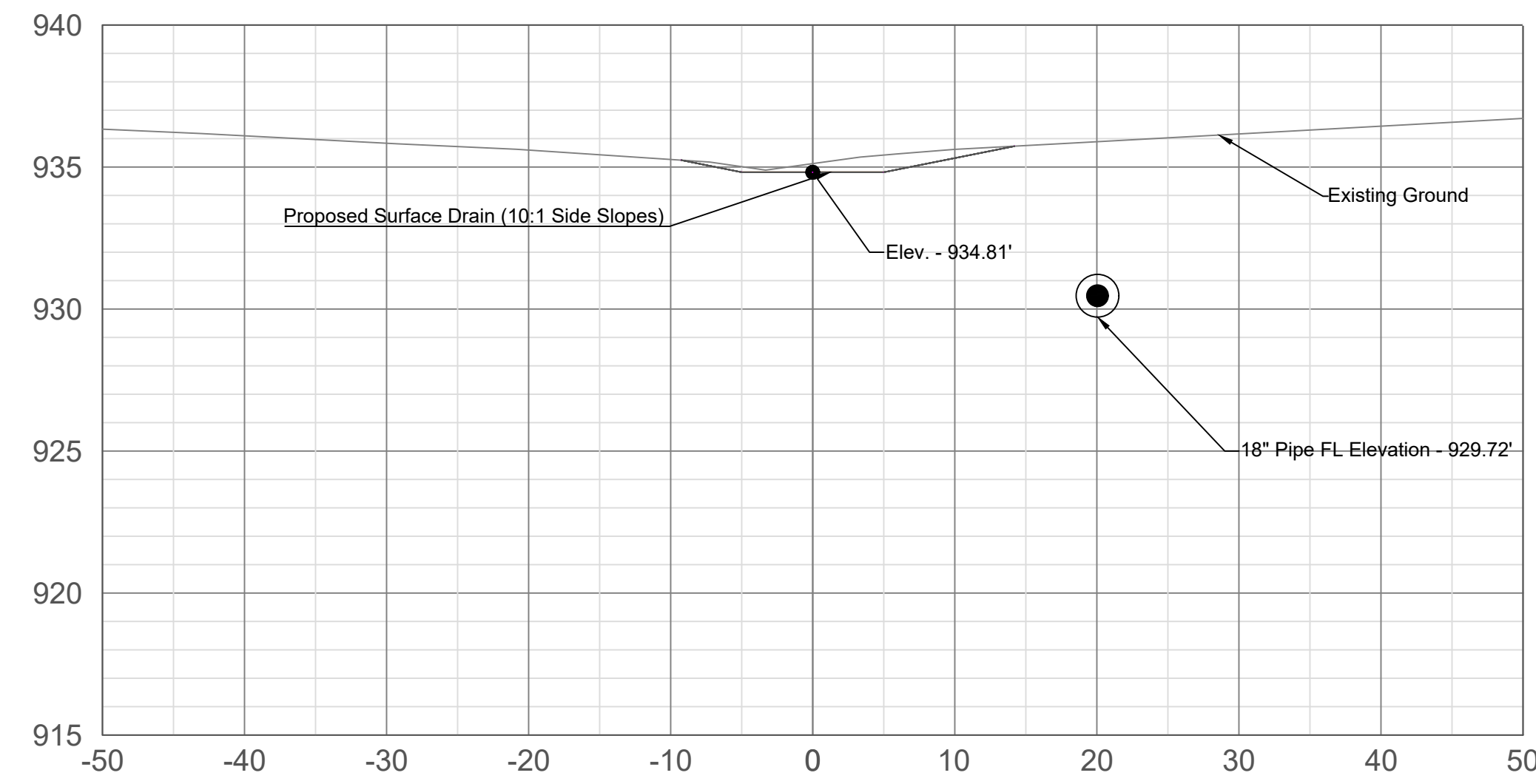
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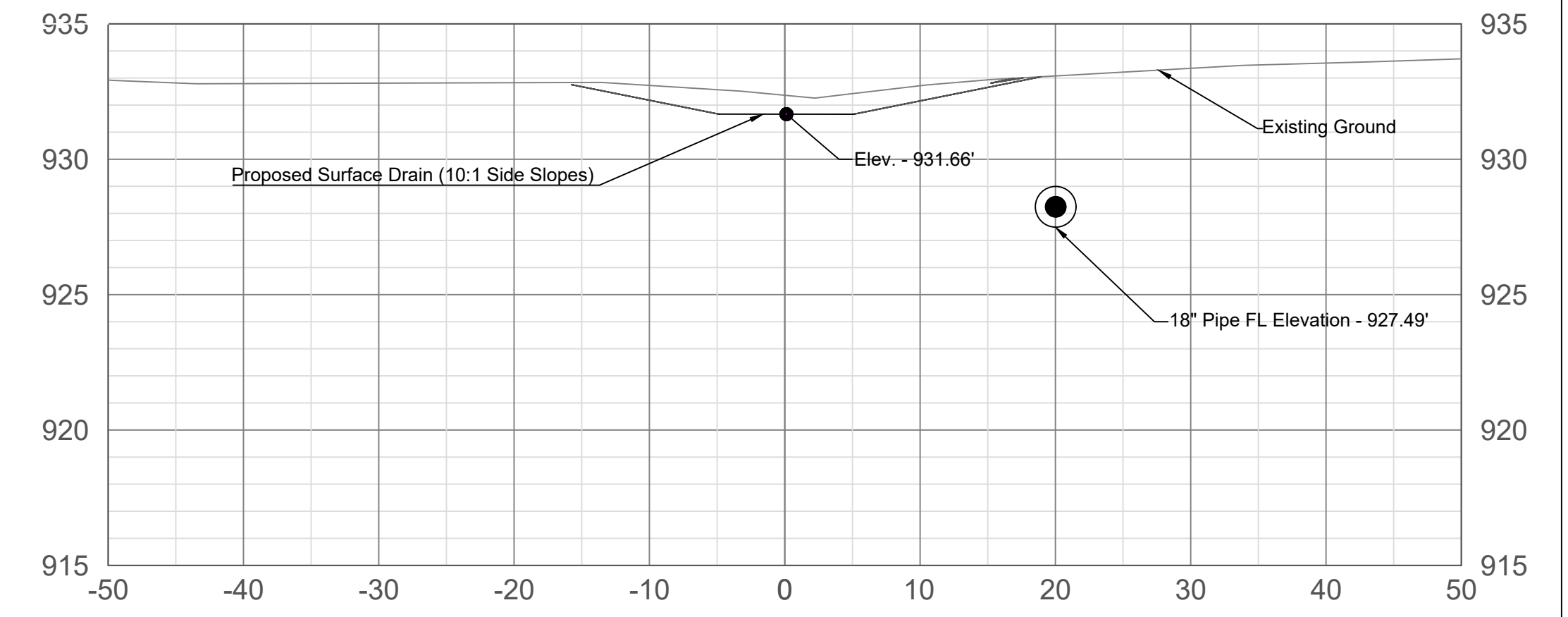
STA 153+00 - Watson-Ford Main



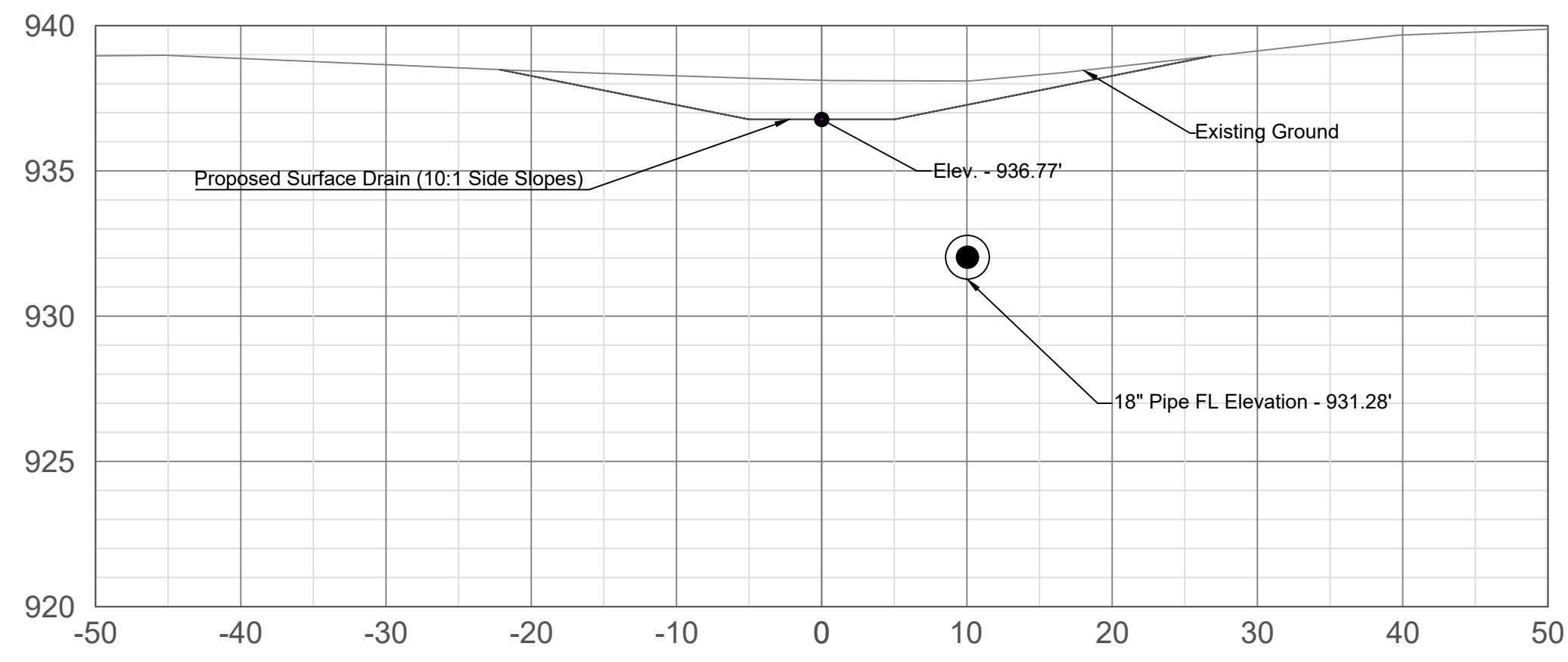
STA 162+00 - Watson-Ford Main



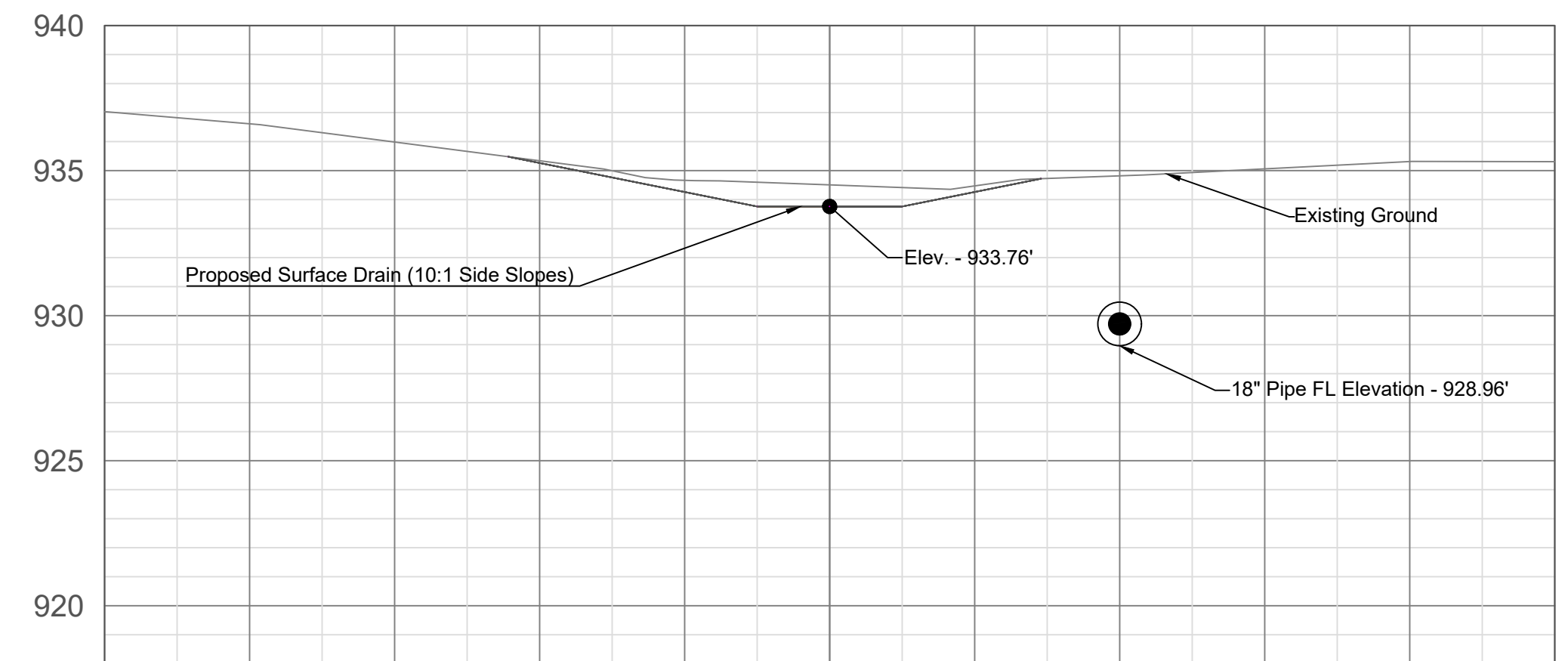
STA 171+00 - Watson-Ford Main



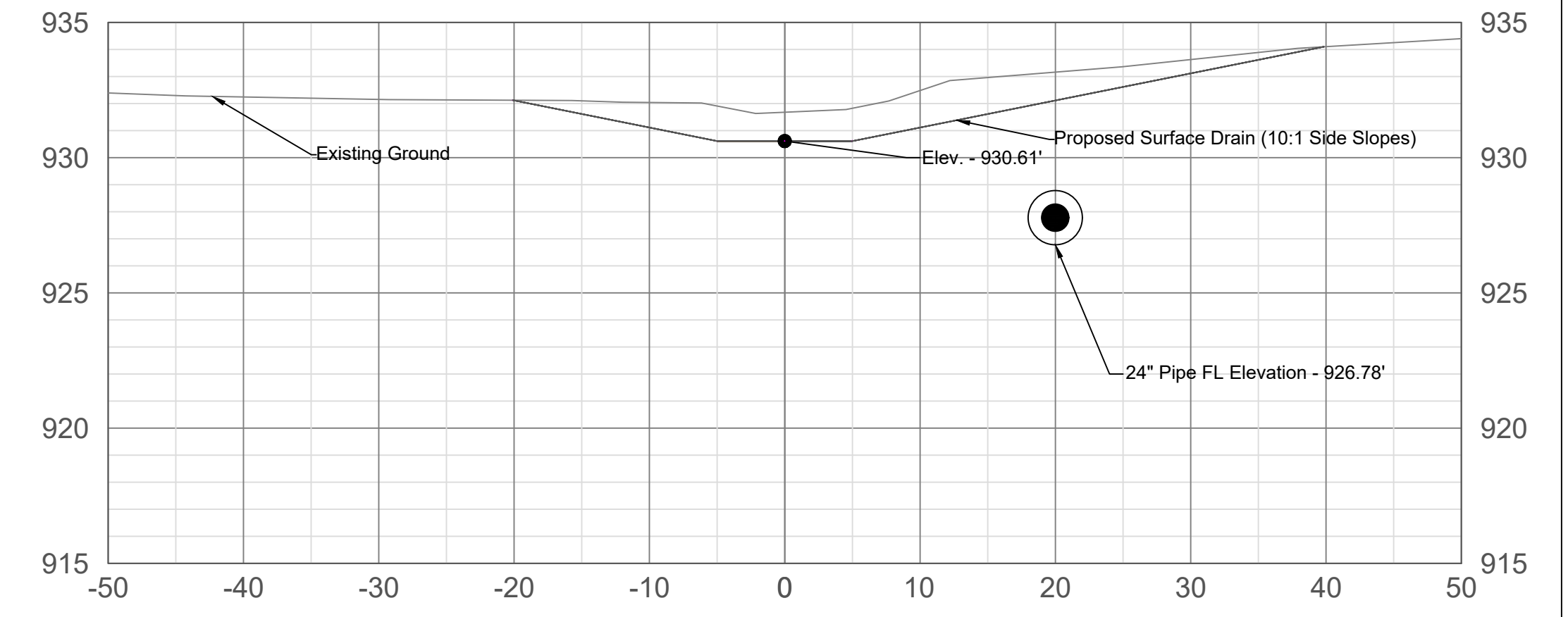
STA 156+00 - Watson-Ford Main



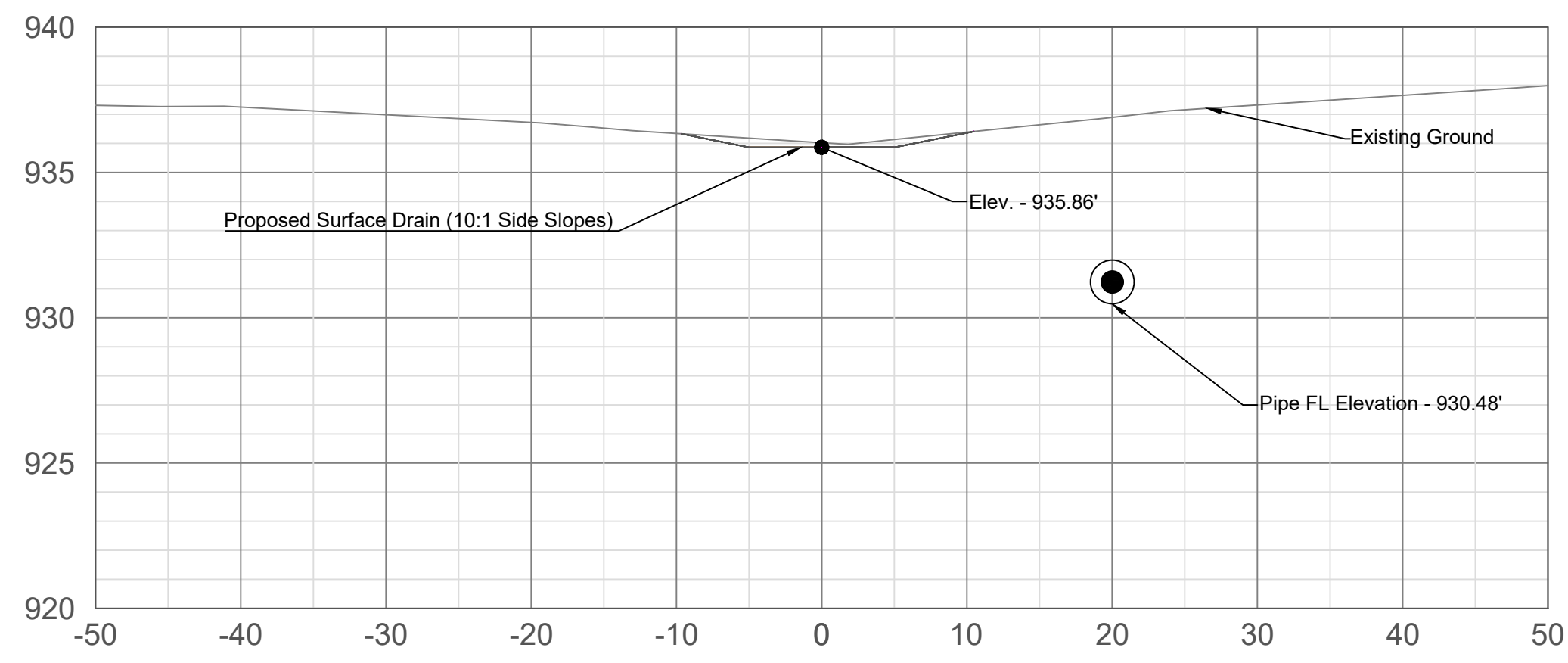
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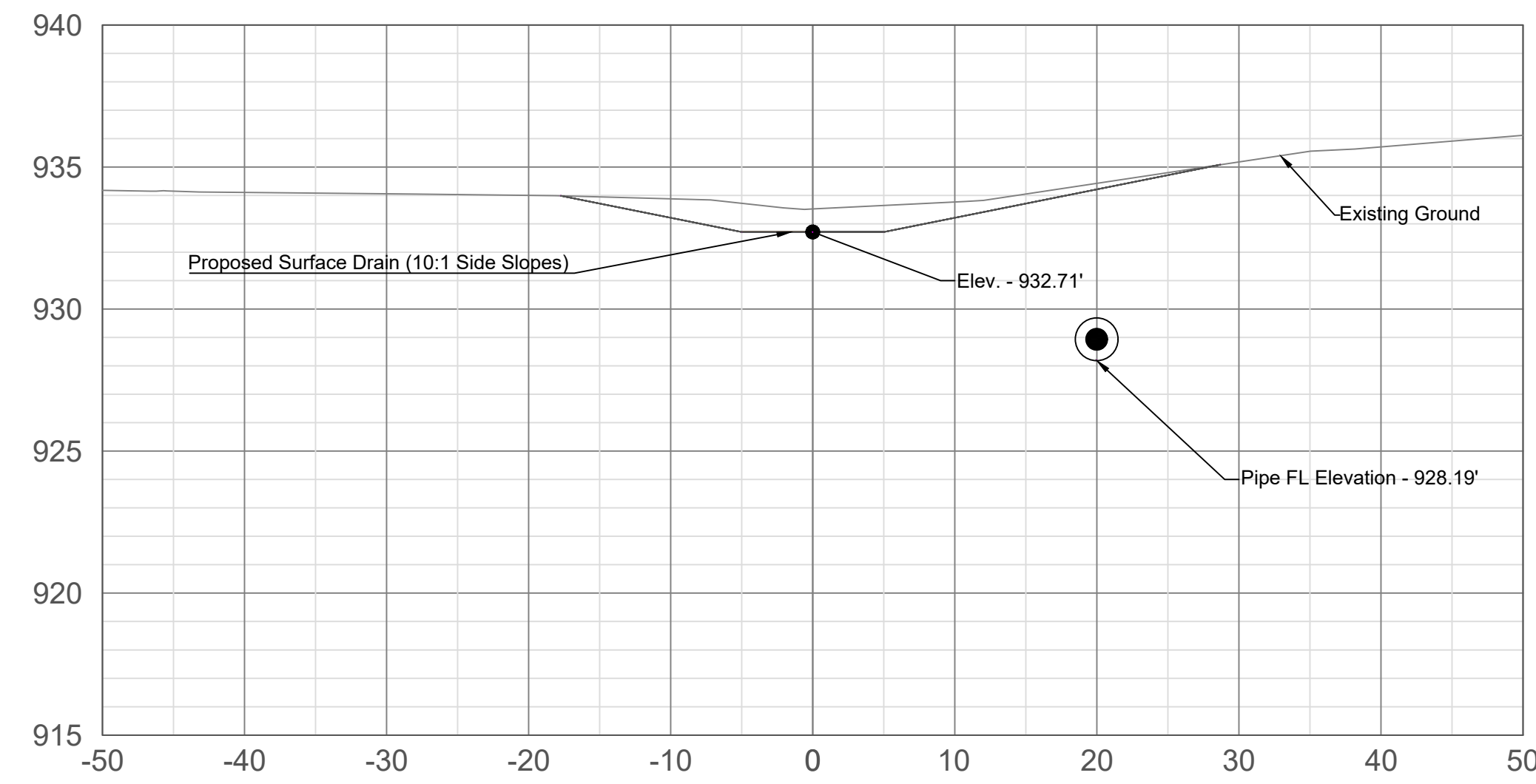
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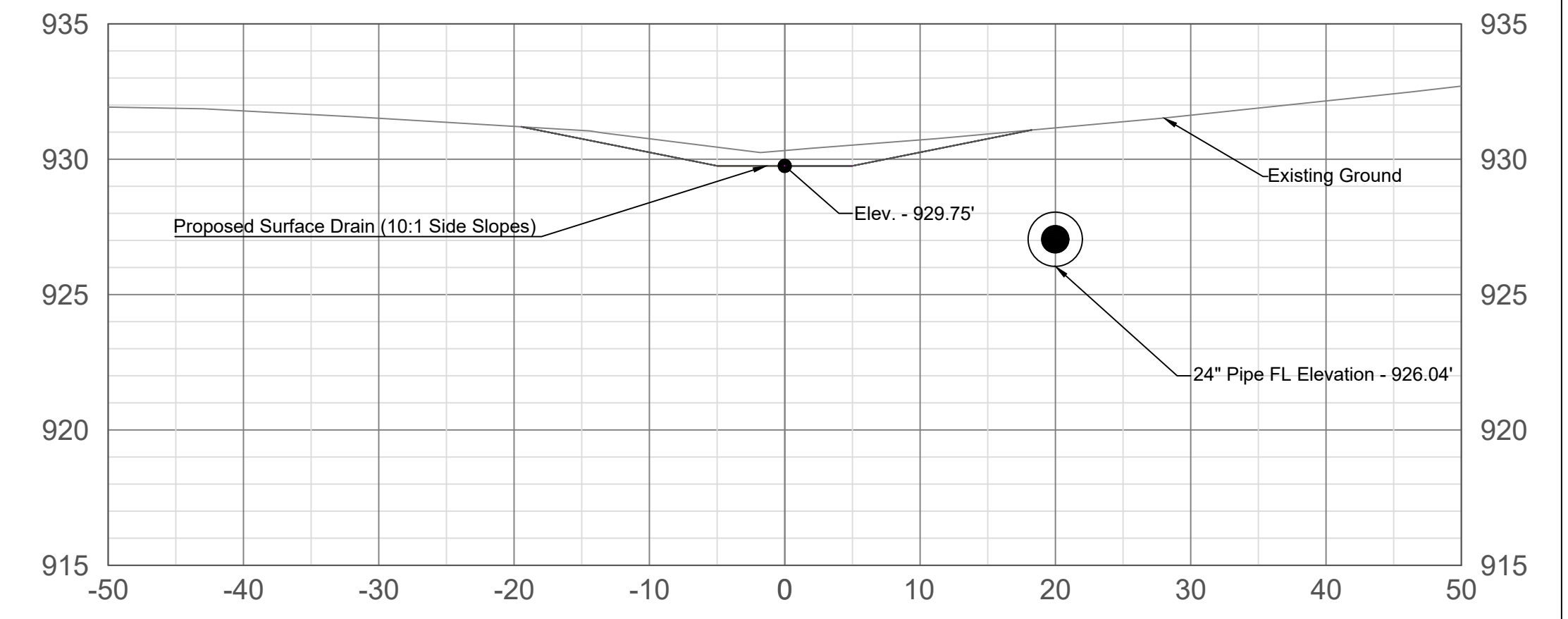
STA 159+00 - Watson-Ford Main



STA 168+00 - Watson-Ford Main

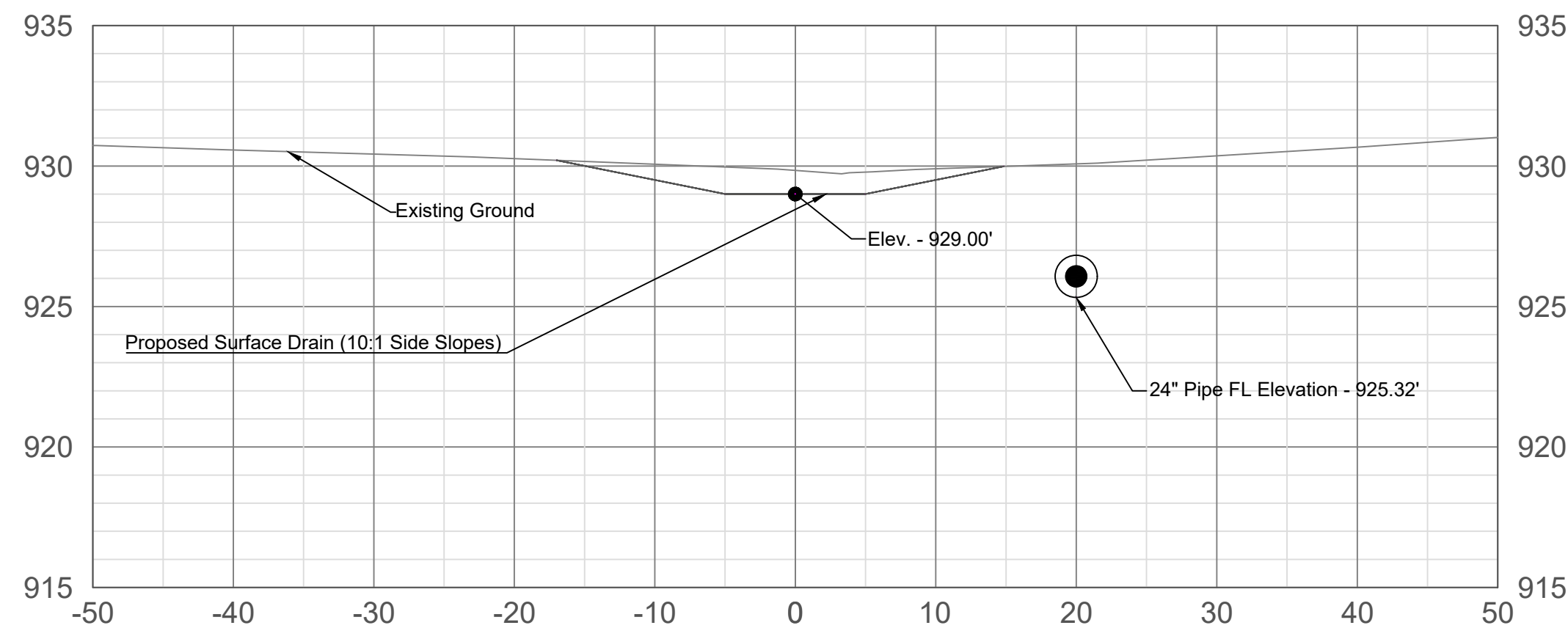


STA 177+00 - Watson-Ford Main

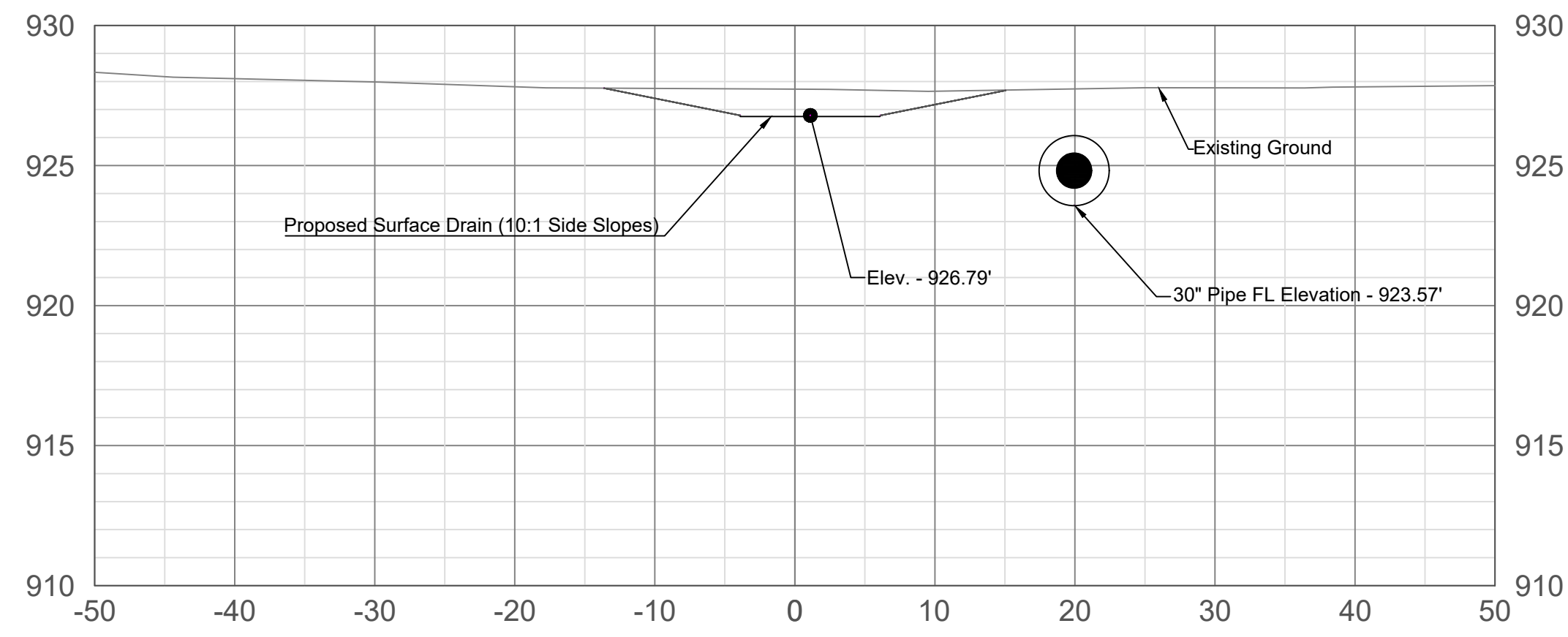


*CROSS-SECTIONS*

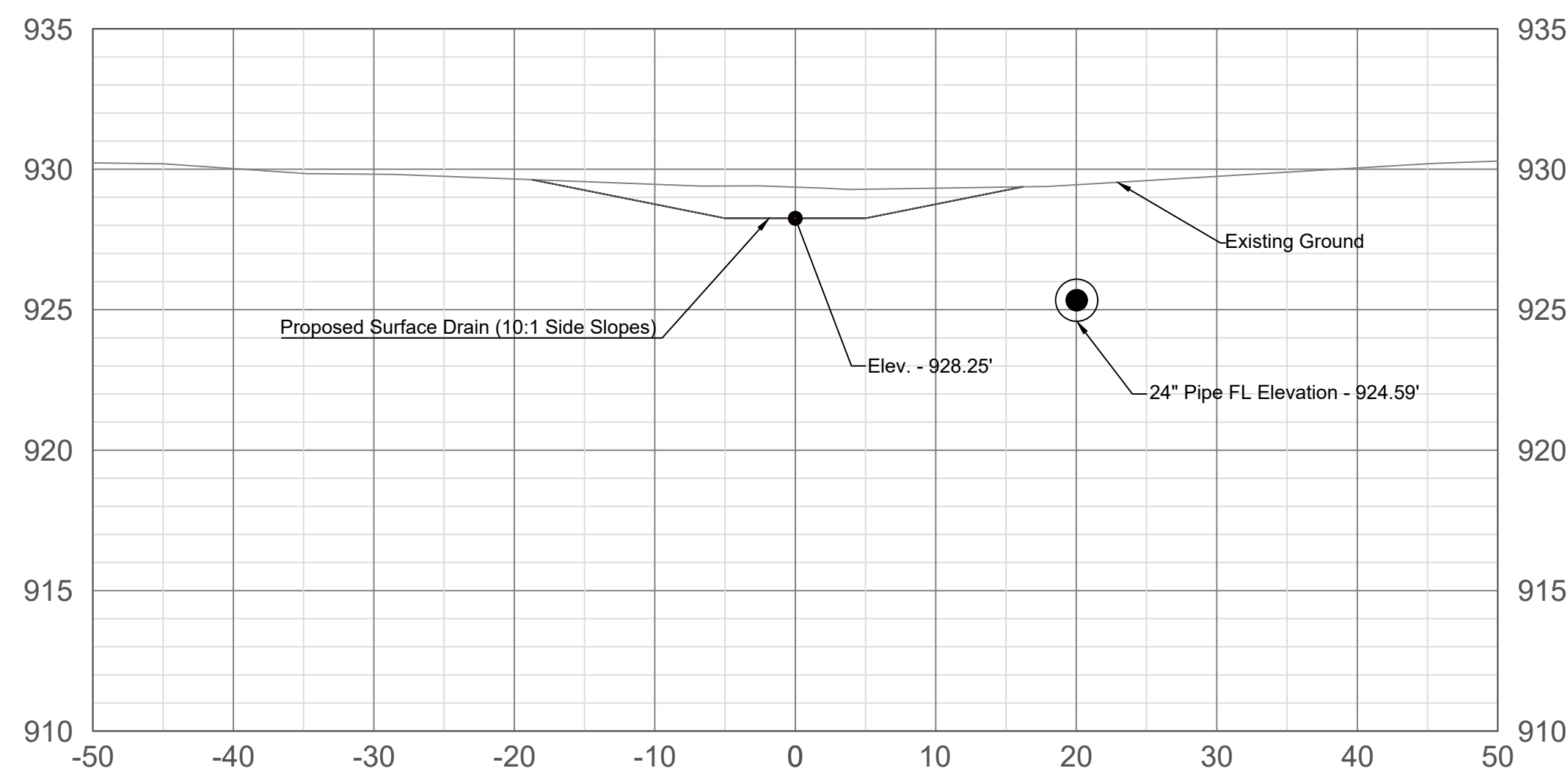
**STA 180+00 - Watson-Ford Main**



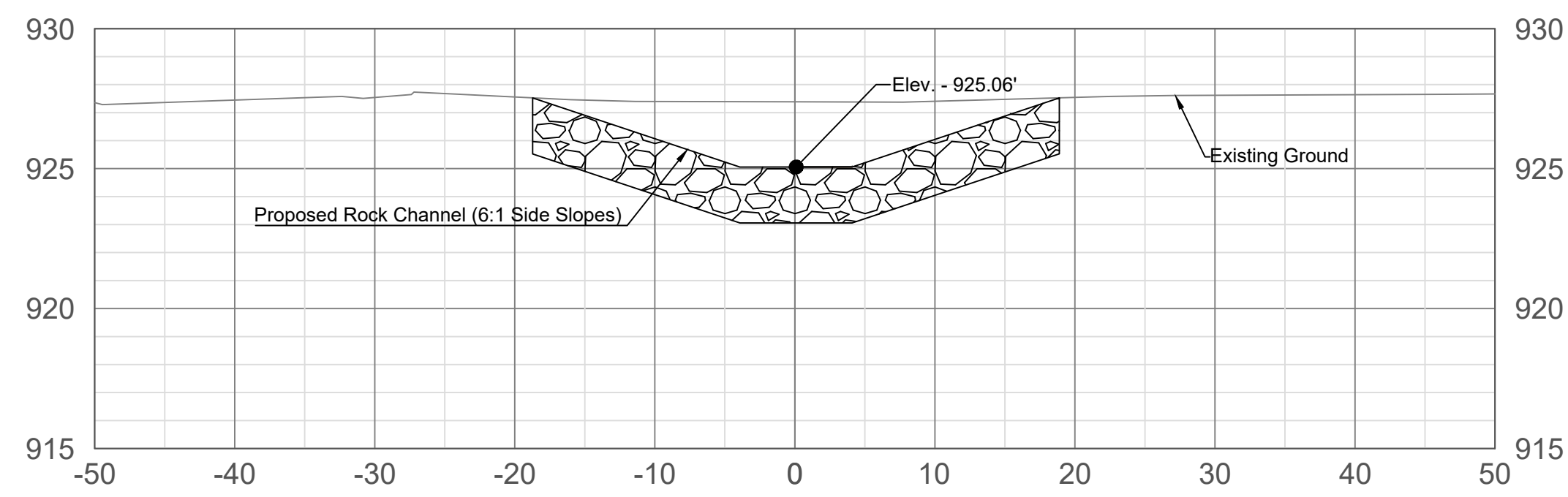
**STA 189+00 - Watson-Ford Main**



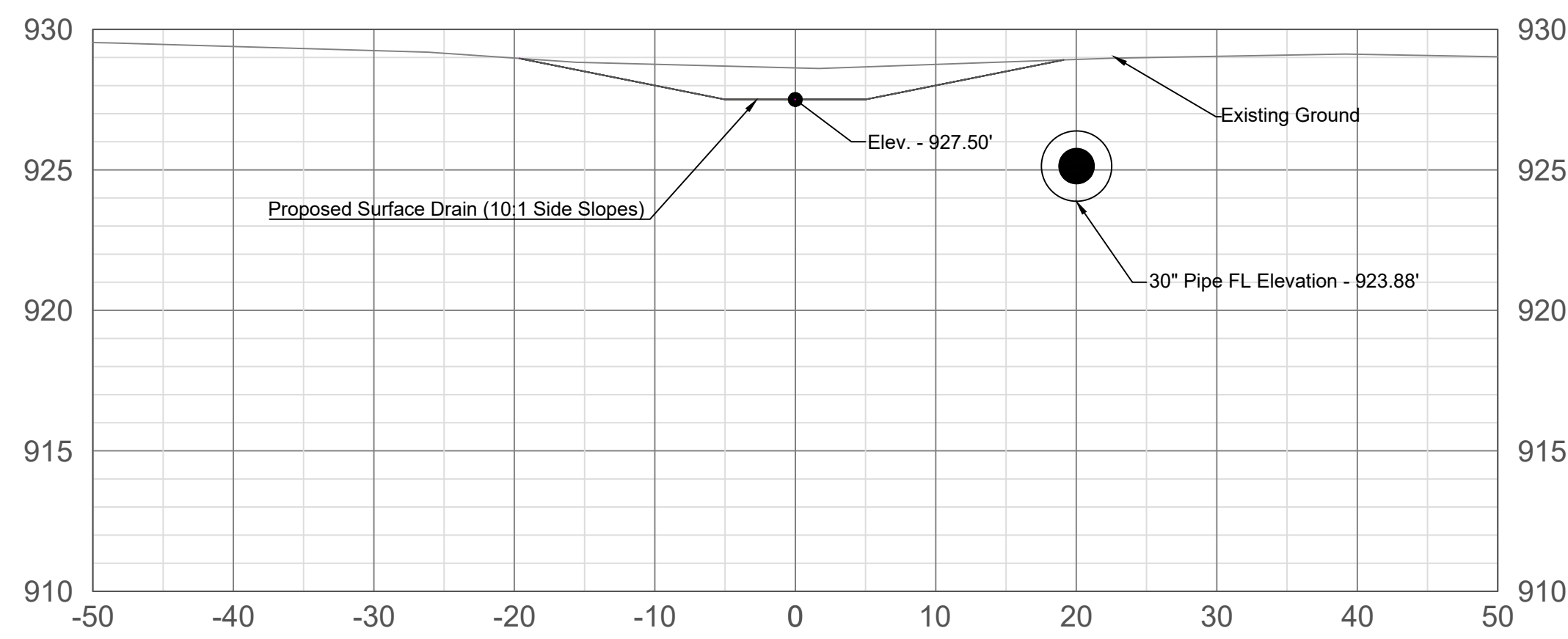
**STA 183+00 - Watson-Ford Main**



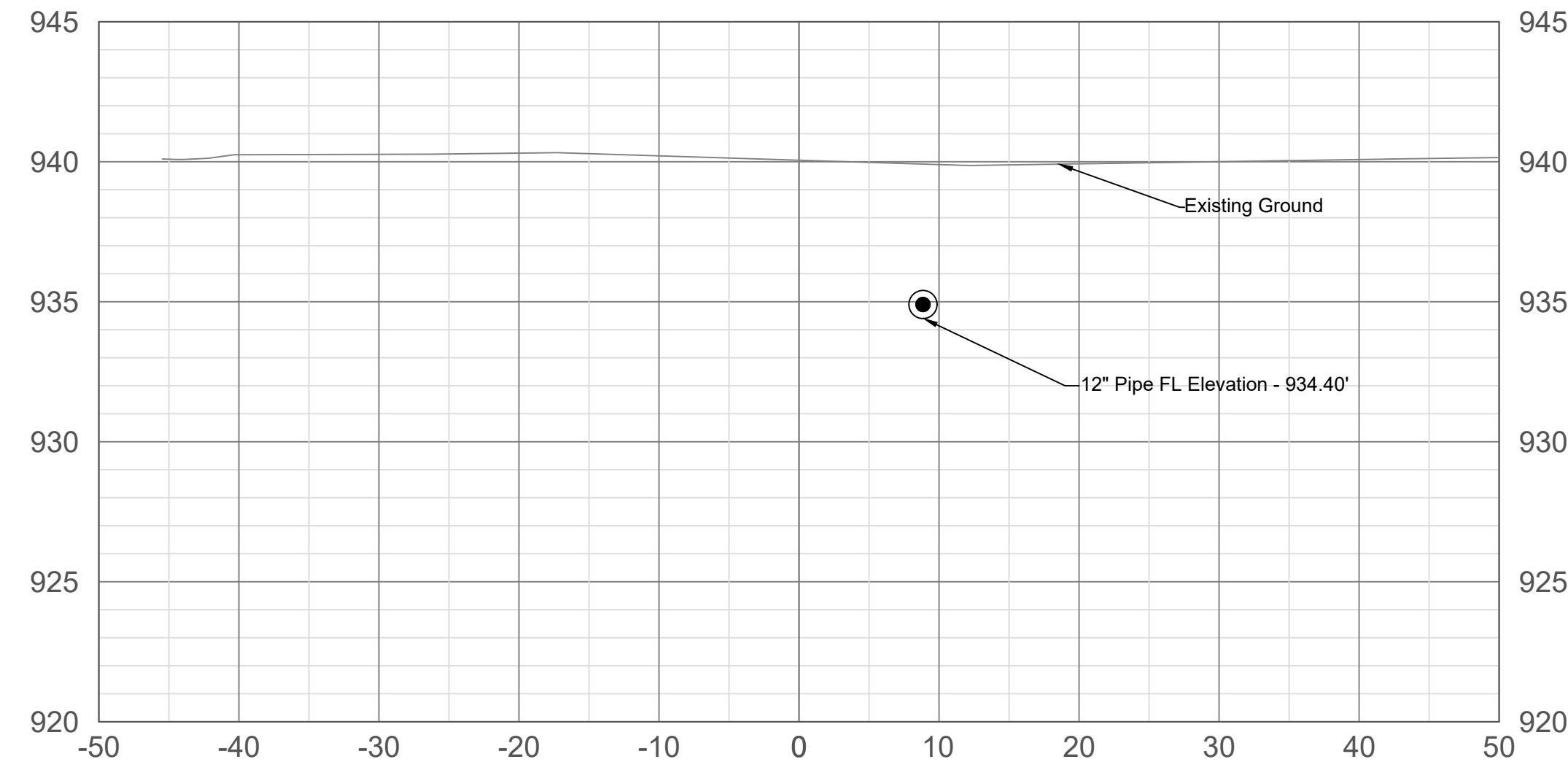
**STA 189+60 - Rock Lined Channel**



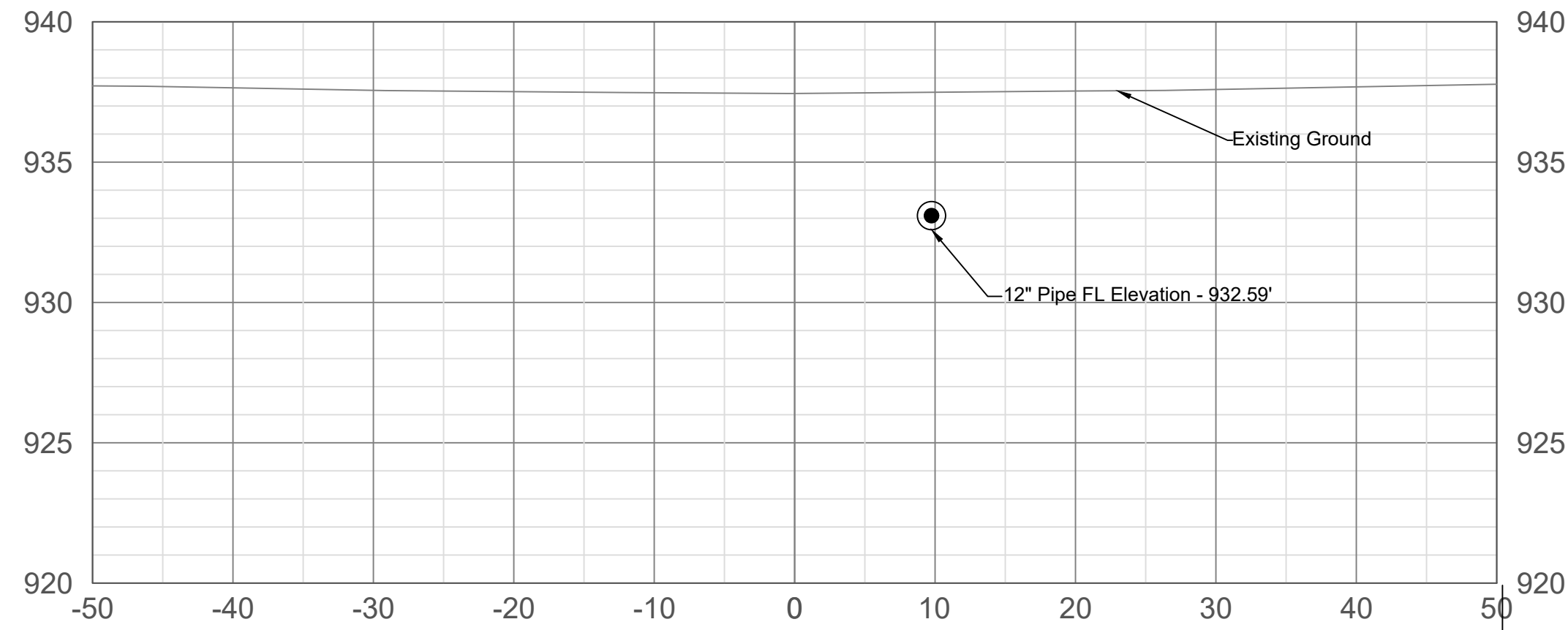
**STA 186+00 - Watson-Ford Main**



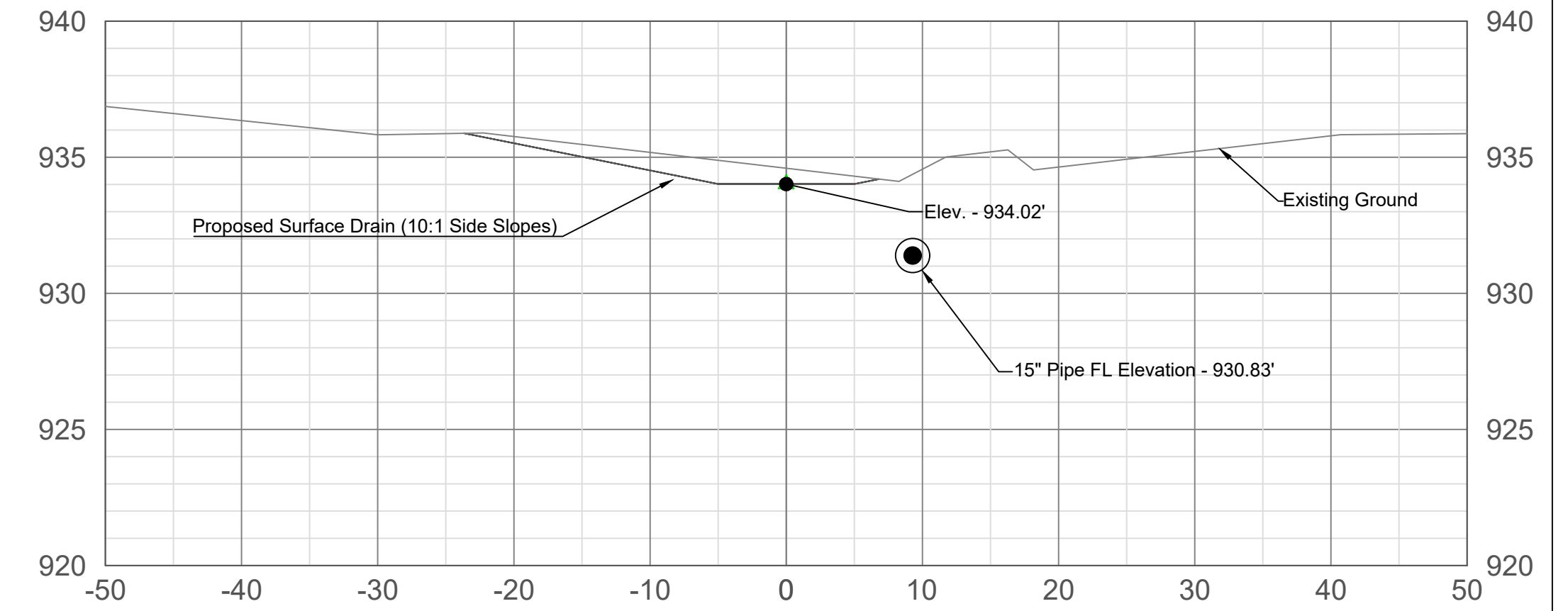
STA 201+00 - Ford #25 Lateral Section Views



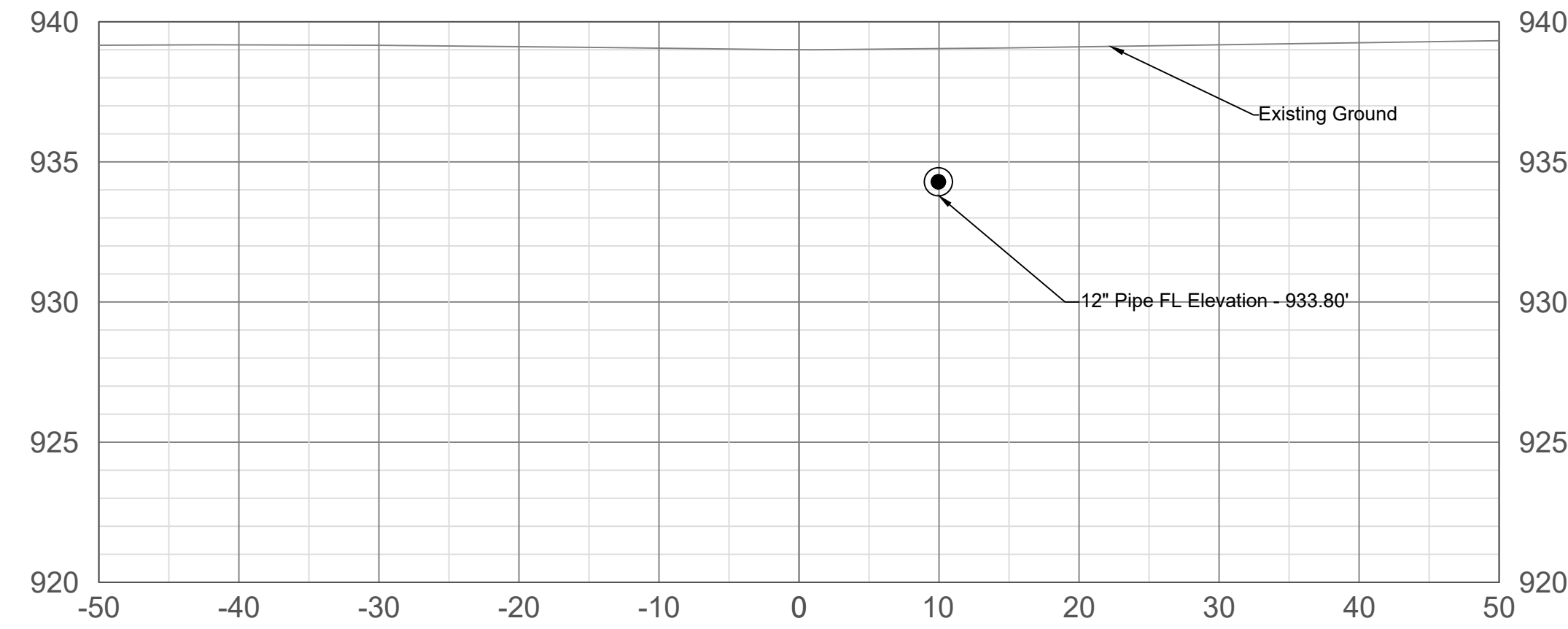
STA 210+00 - Ford #25 Lateral Section Views



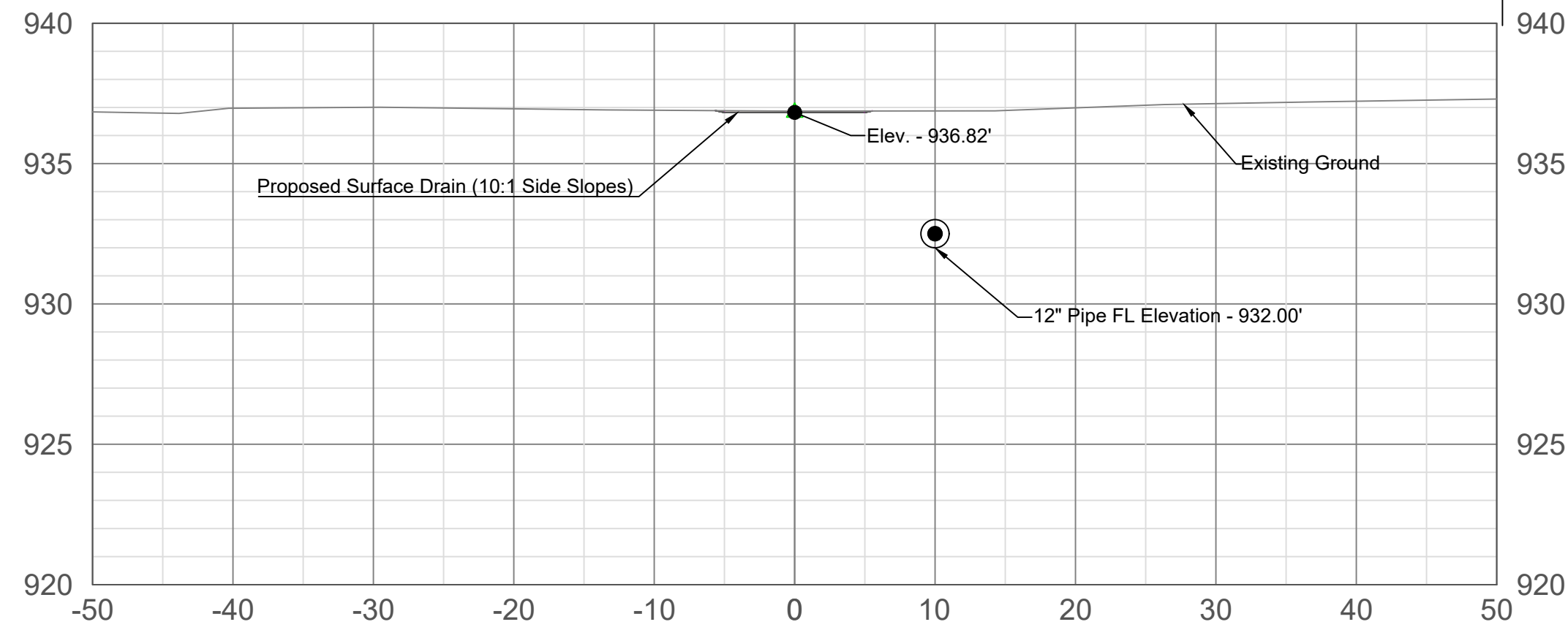
STA 219+00 - Ford #25 Lateral Section Views



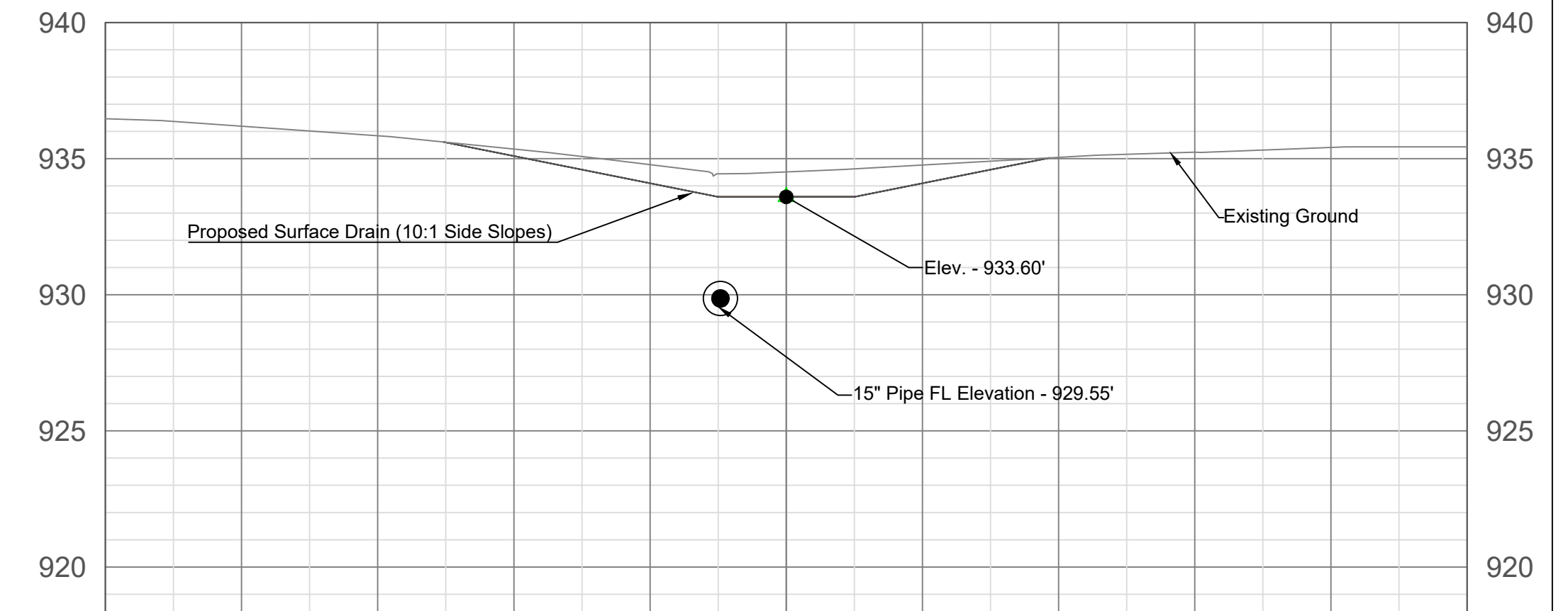
STA 204+00 - Ford #25 Lateral Section Views



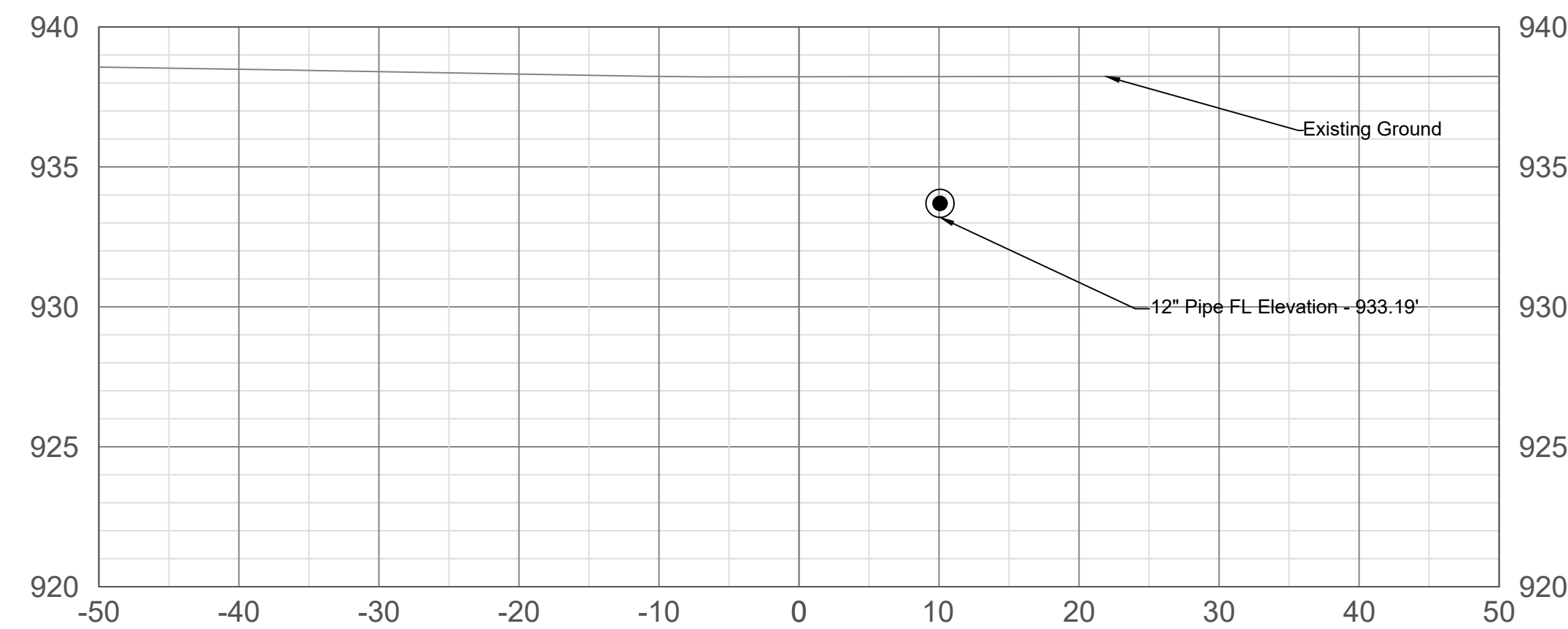
STA 213+00 - Ford #25 Lateral Section Views



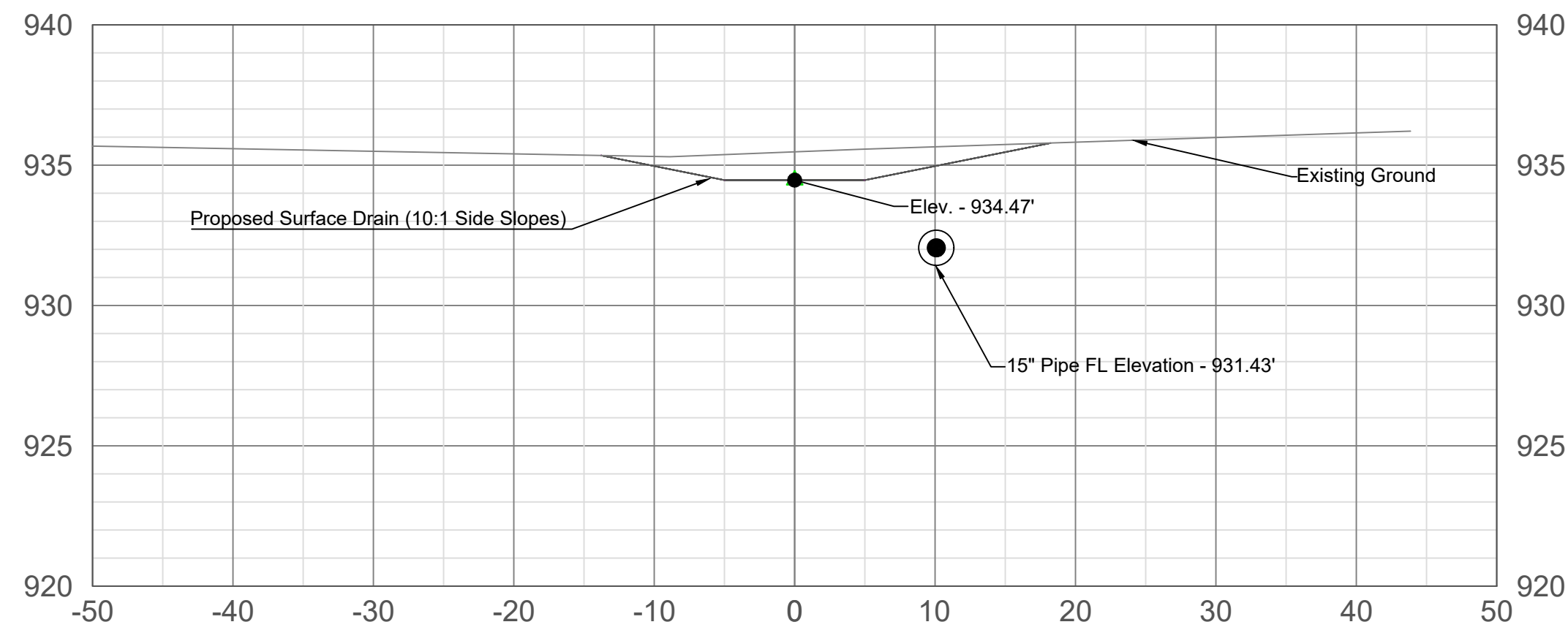
STA 222+00 - Ford #25 Lateral Section Views



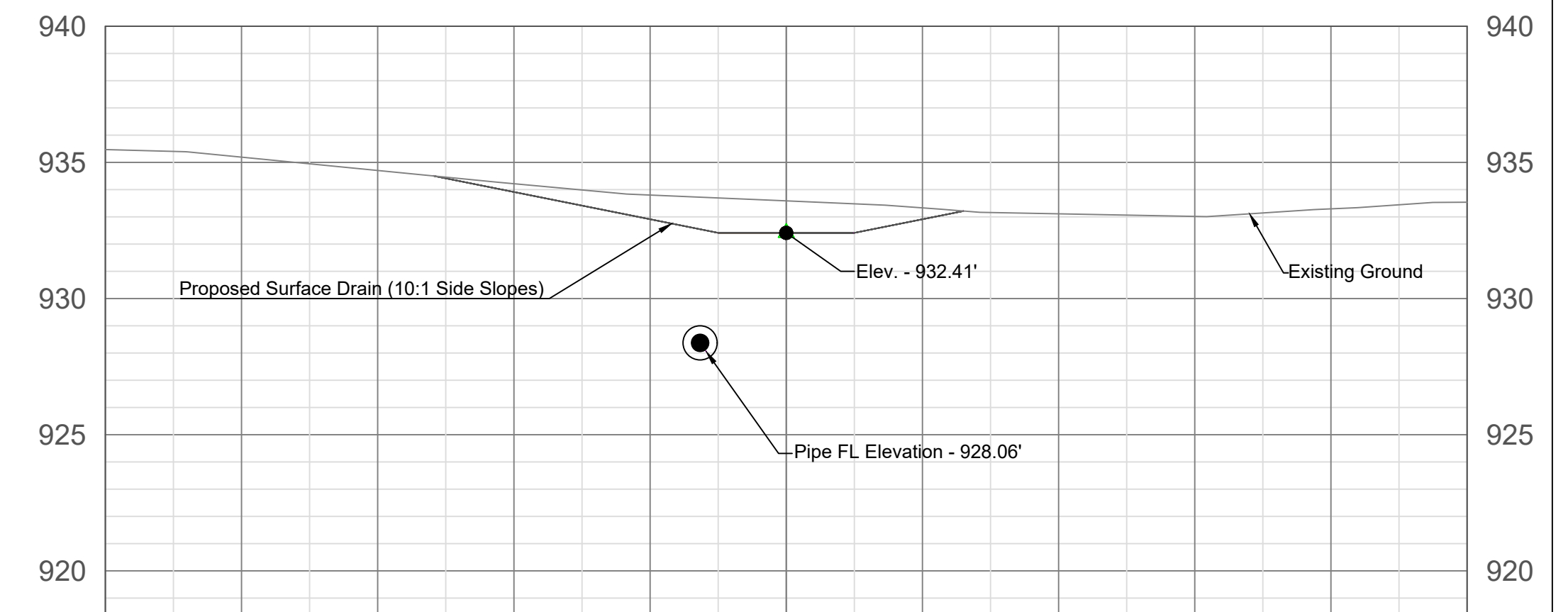
STA 207+00 - Ford #25 Lateral Section Views



STA 216+00 - Ford #25 Lateral Section Views

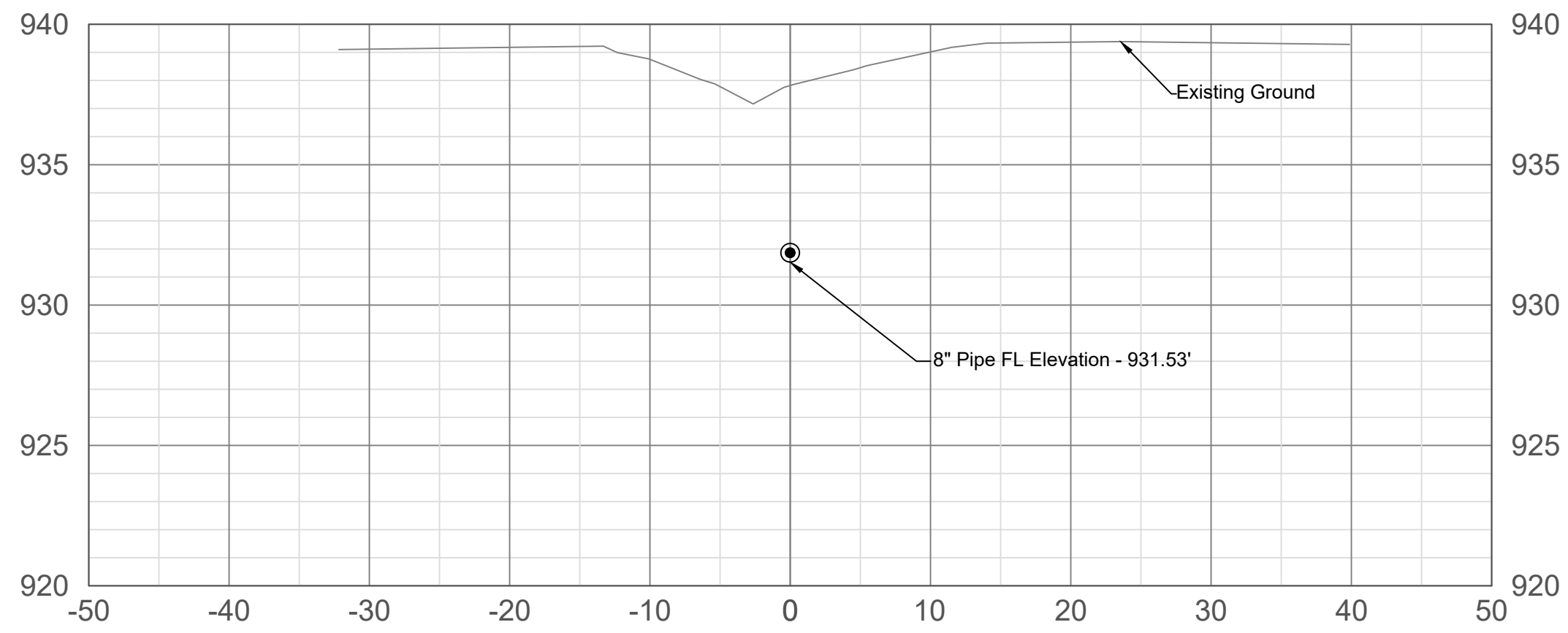


STA 225+00 - Ford #25 Lateral Section Views

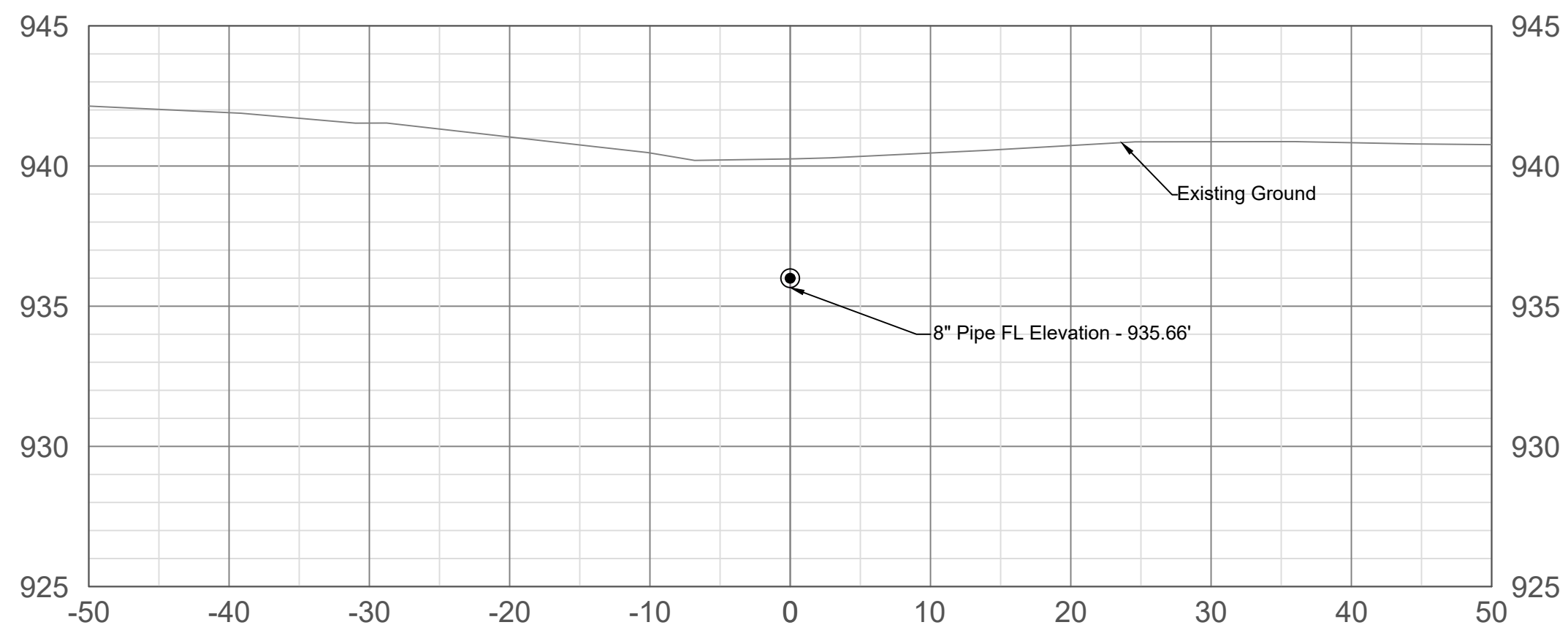




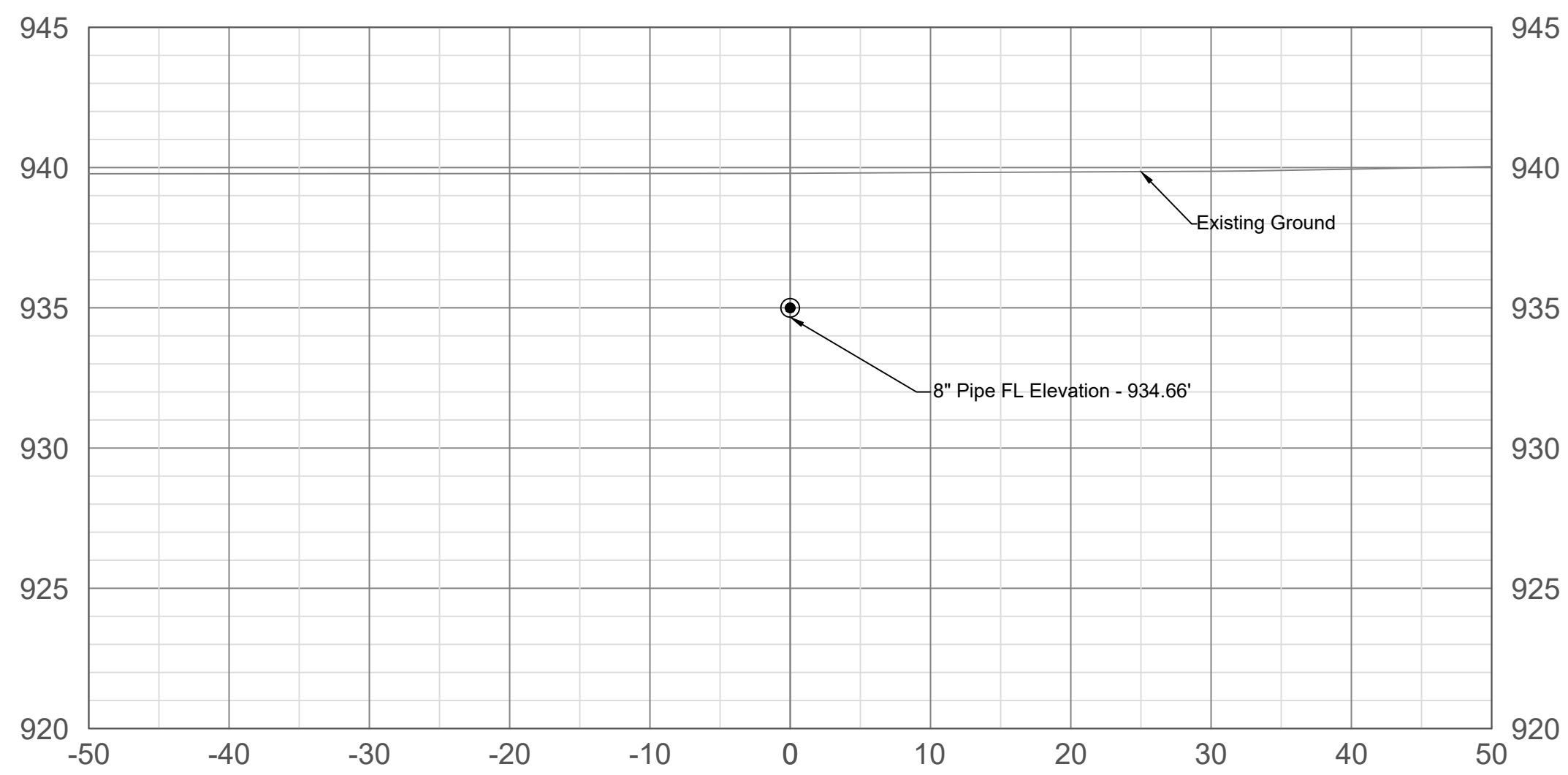
**STA 603+00 - Watson Ford Lateral #4**

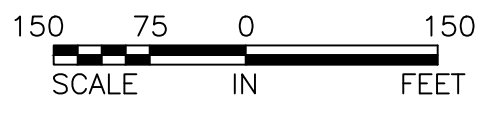


**STA 700+00 - Watson Ford Lateral #5**



**STA 702+00 - Watson Ford Lateral #5**





75' Maximum Work Limit Boundary

30' Access Easement

30' Access Easement

30' Access Easement

Ford Road (TR #142)

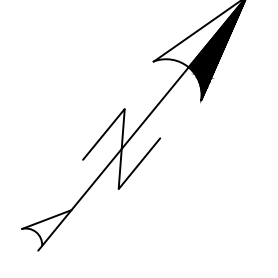
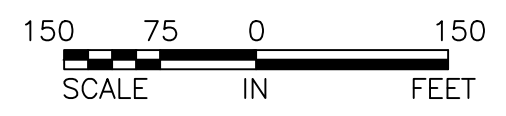
75' Maximum Work Limit Boundary

75' Maximum Work Limit Boundary

Sawmill Parkway (CR #609)



*EASEMENTS & WORK LIMITS*



75' Maximum Work Limits from CL

30' Access Easement

75' Maximum Work Limits from CL

30' Access Easement

Bean-Oller Rd (TR #140)

Clark-Shaw P

