

DETAILS & NOTES

GENERAL CONSTRUCTION NOTES

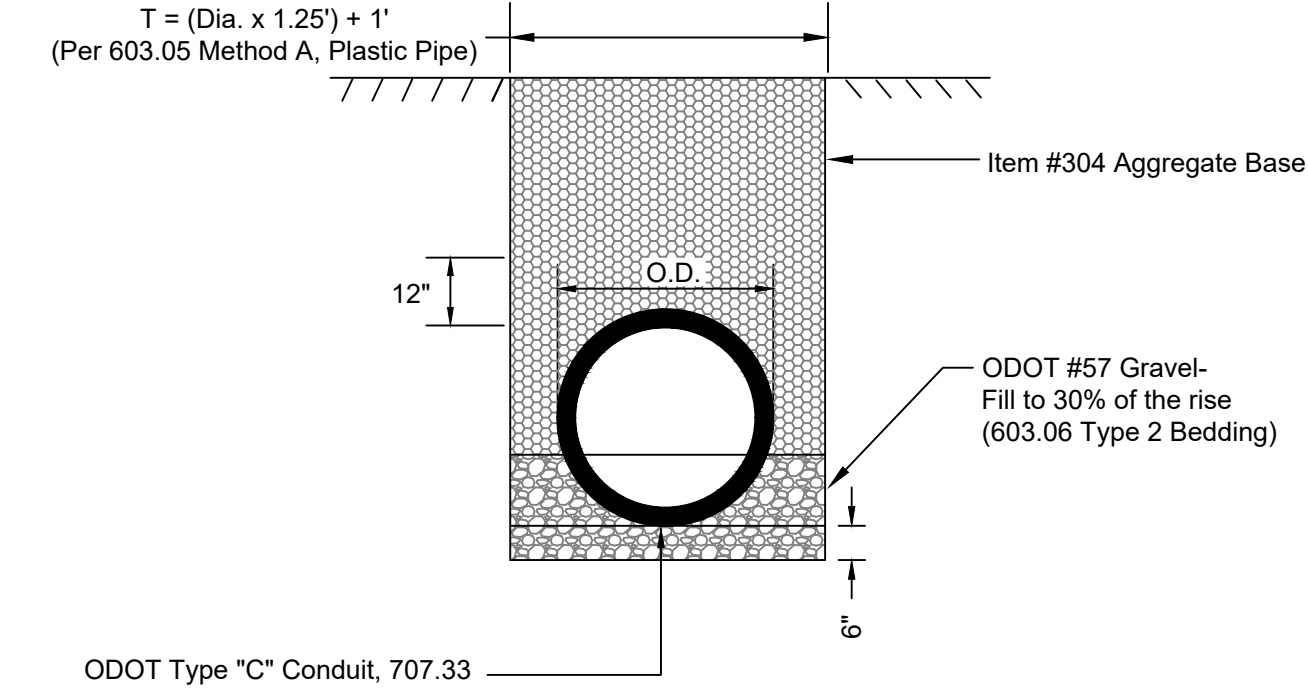
1. The construction right-of-way for this project will be 75' right and left of the project centerline unless otherwise marked by the Construction Inspector. Certain items of work may require an extended right-of-way in order to properly complete them. This work should not be done without prior consent of the construction inspector, and any consent given will be specific to a particular item of work. Additional right-of-way for construction access may be identified and approved by the construction inspector as deemed necessary for the completion of the project. All areas disturbed by the construction activities which are outside of the critical path including but not limited to area used for staging, stockpiling of materials, and access will be cleaned and returned to its pre-construction state at the sole responsibility of the contractor as per the requirements of ODOT CMS 104.04.
2. The contractor will be responsible for ensuring that all relevant OSHA regulations are met prior to beginning any construction activities.
3. Temporary easements for construction access may be identified and approved by the construction inspector as deemed necessary for the completion of the project. Any access easement not connected to the work limits of the project will be returned to its pre-construction state at the sole responsibility of the contractor.
4. All ground disturbed by excavation shall be returned to its pre-construction vegetative state and grade unless otherwise directed by the plans and/or the construction inspector.
5. Spoil from excavation of the surface drain (NRCS #608) and open channel (NRCS #582) construction shall be exported from the site at the expense of the contractor. Payment for spoil and debris disposal will be considered as included in payment for NRCS #608 and NRCS #582 items. The contractor is free to negotiate with landowners to dispose of spoil and debris materials on-site provided that any disposal site is outside of the work limits for this project. Delaware County will not be considered party to any such agreements made between the contractor and landowners.
6. Unless otherwise noted on these plans or instructed by the construction inspector, debris from clearing and snagging within the typical cross sections is to be disposed of off-site by the contractor unless permission to place brush and logs adjacent to the construction right-of-way is granted by the landowners. Payment for hauling and disposal shall be considered part of payment for NRCS #326-Clearing and Snagging. For the purposes of on-site disposal, a log will be defined as "a section of a tree bole (the main trunk of the tree) at least 8 feet long, not containing a fork, sufficiently straight and sound enough to yield at least an 8-foot board. Anything not considered a log by the above definition will be considered brush.
7. Pipe quantities listed on the Plan and Profile views represent cumulative quantities for both perforated and non-perforated pipe. The quantity table shall be the reference for the specific amounts of perforated and non-perforated pipe. The applicable specification and the instructions of the construction inspector will govern the placement of each type of pipe. All lineal quantities of pipe shall be considered to be inclusive of all necessary elbows, couplers, and other fittings unless otherwise stated by these plans and/or the bid documents.
8. All lateral tile cut by the installation of the new tile shall be reconnected to the new tile at the point where they are cut or collected with a submain (size to be determined) and outletted into the new tile at the next downstream breather as specified by the construction inspector and per the requirements of NRCS #606-Subsurface Drain. Any connections made to any tile included on the Drainage Maintenance Program after completion of the project will require the approval of the Drainage Maintenance Department.
9. Seeding and Mulching will be done as per the specifications of ODOT #659 with the following stipulations/exceptions:
- Seed mixture to be used will be Class-Type #1.
 - Soil testing will not be required.
 - Liming will not be required.
 - Compost will not be required.
 - The use of straw mulch will be acceptable for the entire project.
 - Watering will not be required.
 - Mulch anchoring will not be required except where specified.
10. Linear alignments of all surface and subsurface features may be modified to fit site specific conditions at the discretion of the construction inspector.
11. The contractor shall contact the Delaware County Engineer's Office a minimum of seven (7) working days prior to beginning any work within the road right-of-way. It will be the sole responsibility of the contractor to secure any permits necessary for work within the road right-of-way.
12. All trees to be saved will be marked prior to the start of construction by the construction inspector. Markings will be done in the manner requested by the contractor. Unless specifically designated as "Save" or "Do not disturb" in the plans or by the construction inspector, remove all trees and stumps within the cross section under the lump sum bid for NRCS Item #326-Clearing and Snagging. Trees marked to be saved shall be protected with protective cover such as filter fabric or other suitable material. Replacement of any tree damaged or removed that was otherwise marked to be saved will be the responsibility of the contractor.
13. Scale bars as shown on the Plan Views shall be considered to be accurate for surveyed features including, but not necessarily limited to, project centerline, tie lines, and benchmark locations. Property lines, drive centerlines, building footprints, and road centerlines as shown on the Plan Views were derived from other sources and are shown for general reference only and should not be used to scale the location of any constructed feature.
14. Excavation will/may be required to verify design elevations including, but not limited to, existing subsurface drain inverts. These excavations will be considered incidental to the overall construction of the project per ODOT CMS 105.02.

Temporary & Permanent Easements

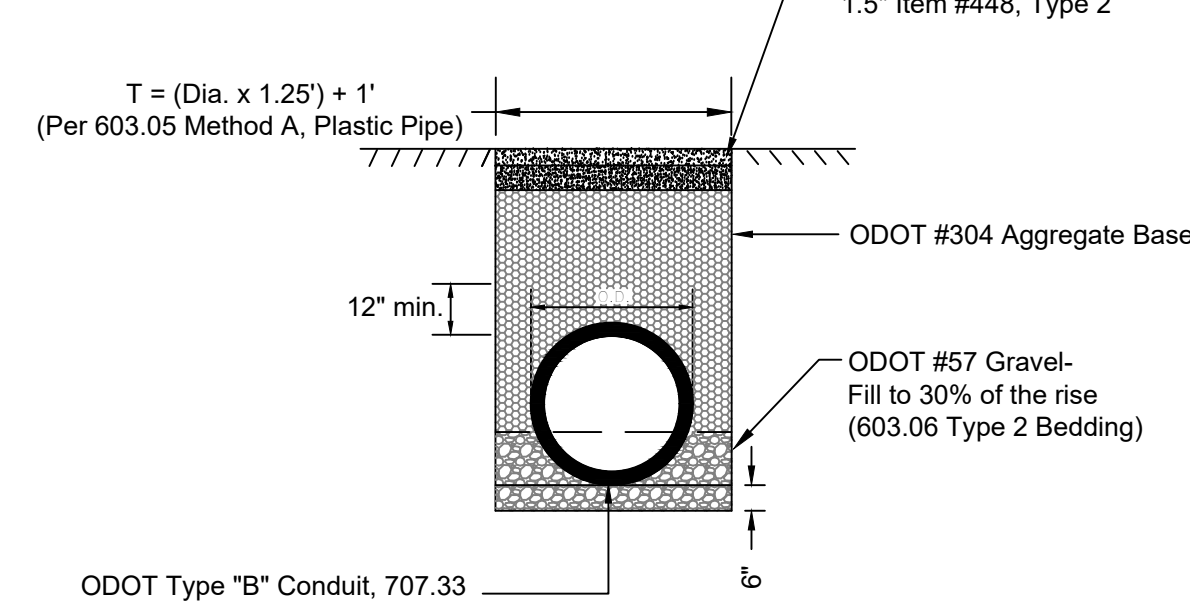
1. The width of the temporary easement for construction shall be seventy-five feet as measured from the top of bank of the open channel, seventy-five feet as measured from the top of bank of the surface drain, and seventy-five feet as measured from the centerline of the subsurface drain where no surface 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.

SUBSURFACE DRAIN (NRCS #606)

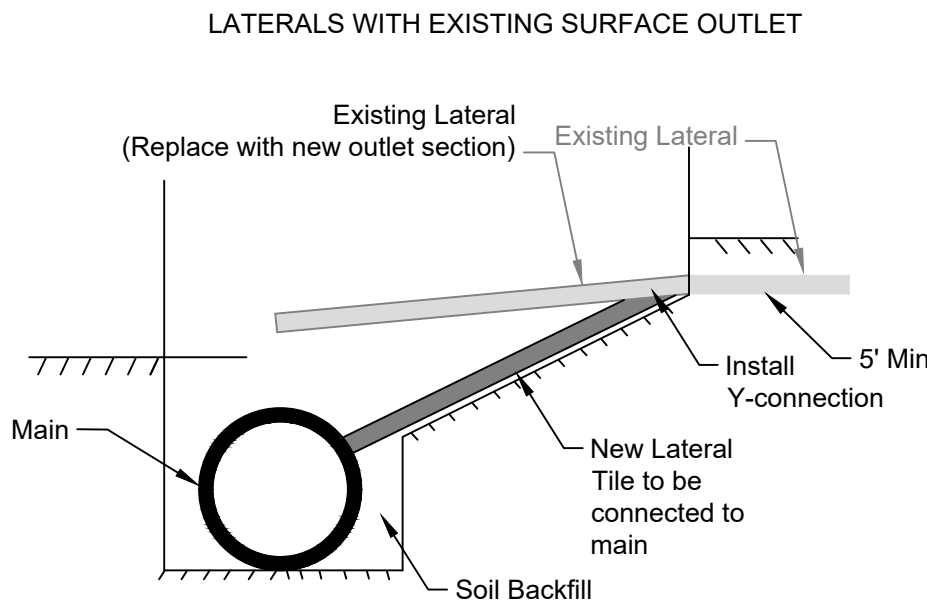
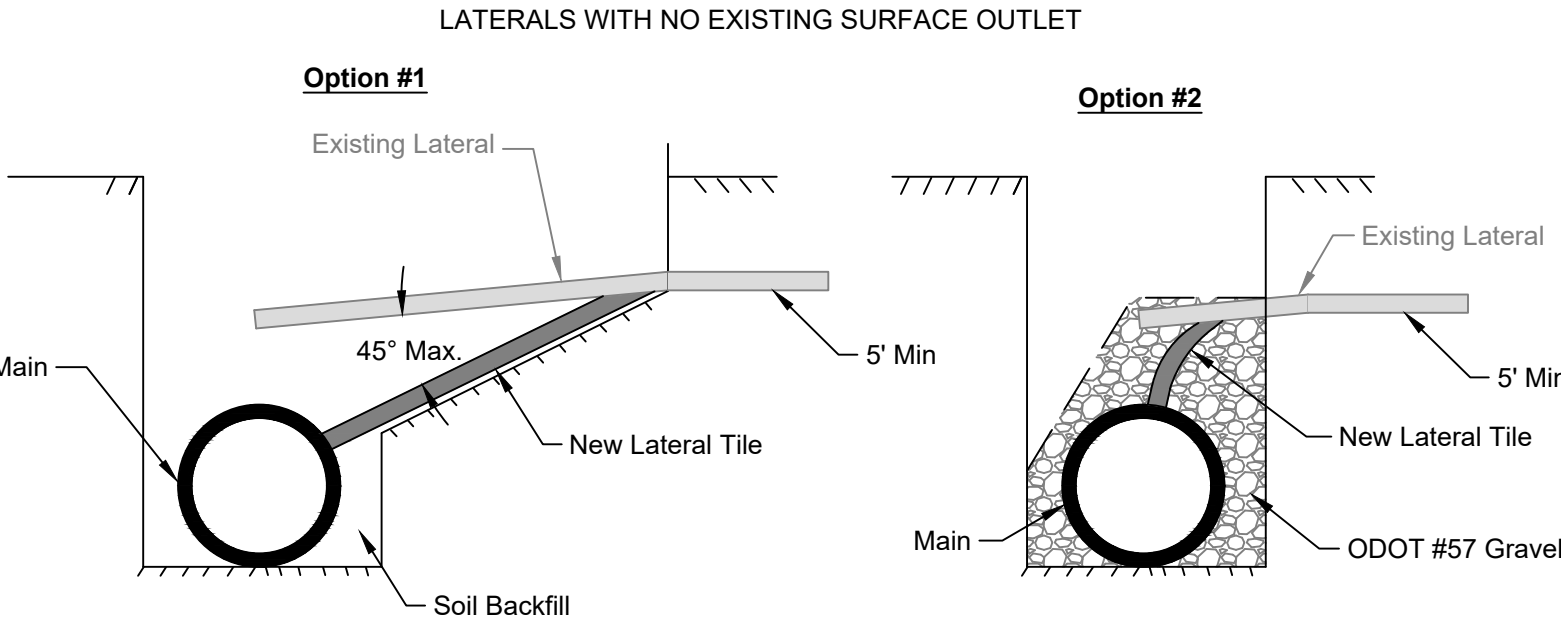
STONE DRIVE, SINGLE PIPE
ODOT 611, TYPE "B" GRAVEL DRIVE, 707.33 INSTALLATION



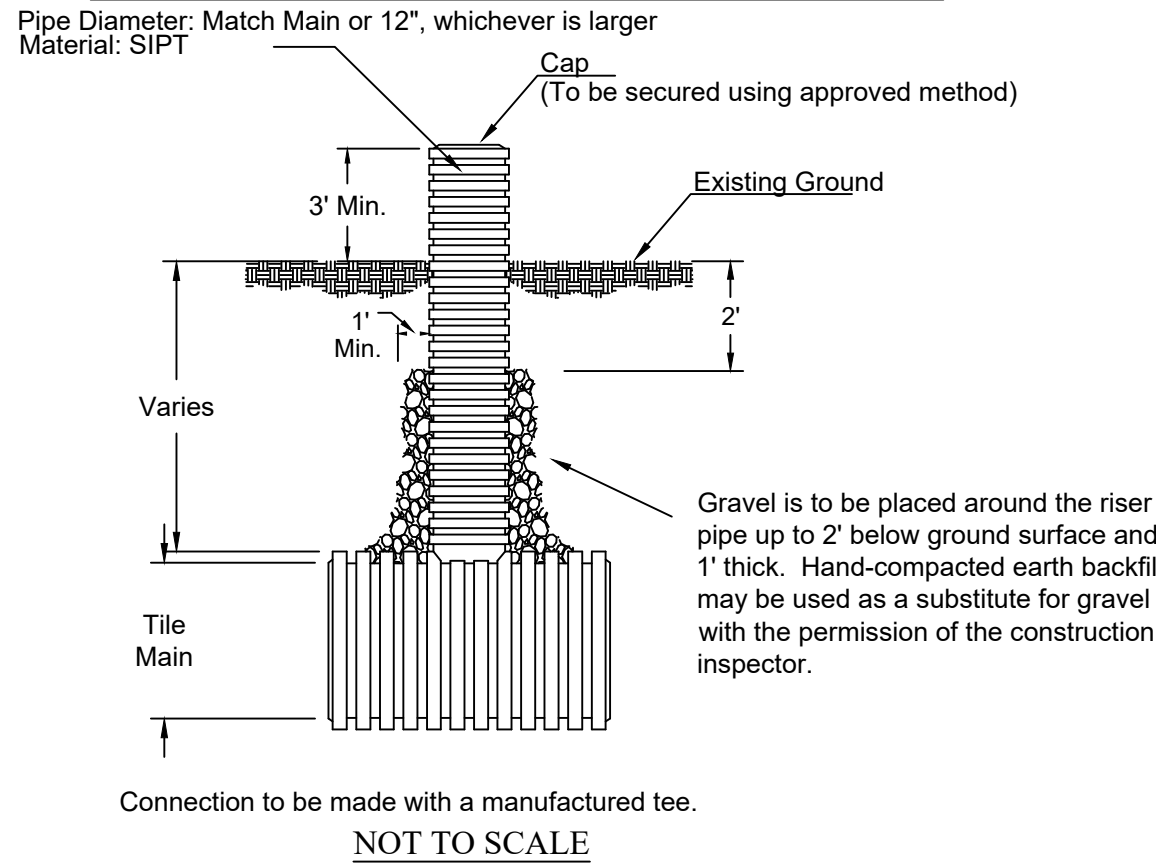
DRIVE CUT INSTALLATION DETAIL
ODOT 611, TYPE "B" , 707.33 INSTALLATION



TYPICAL SUBSURFACE DRAIN LATERAL CONNECTION DETAILS (NRCS #606)
NOT TO SCALE



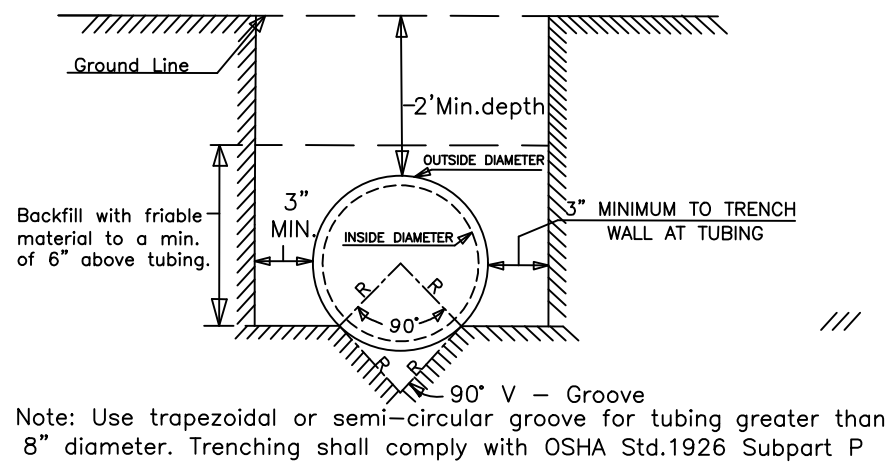
INSPECTION WELL DETAIL



NOTES

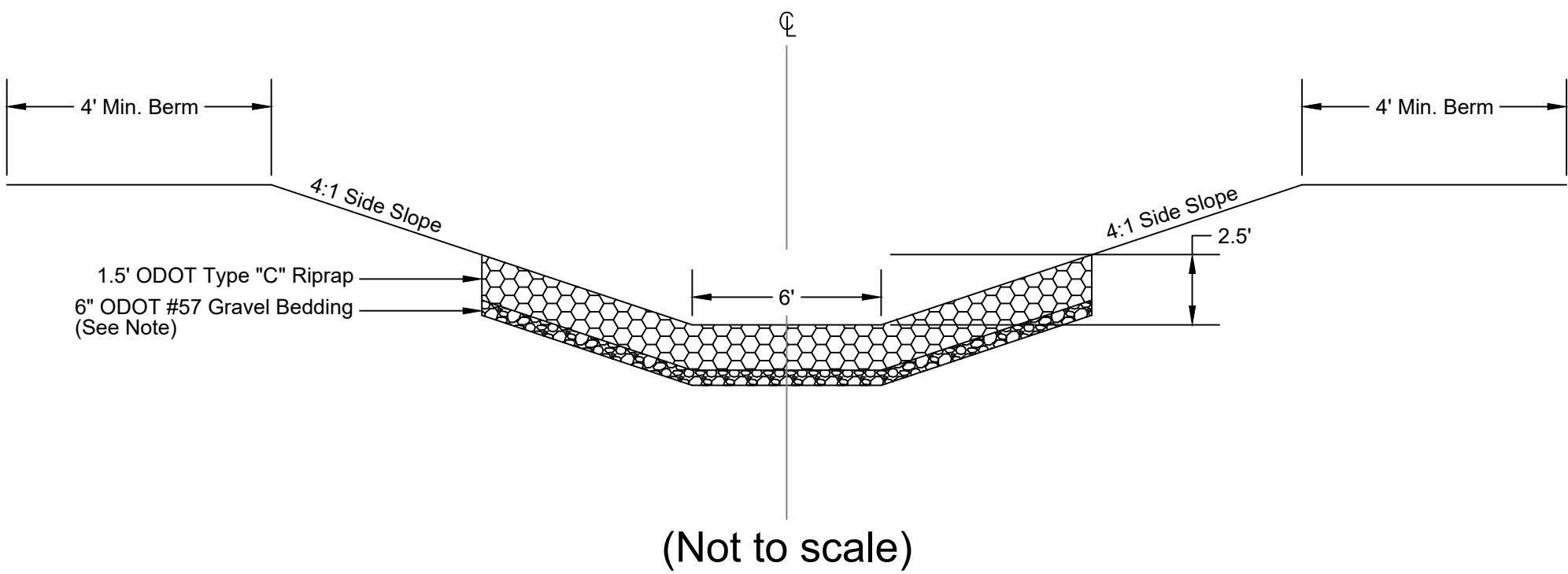
1. All tile shall be placed according to the Typical Subsurface Drain Installation Detail and the requirements of NRCS Specification #606.
2. Removal of residual lateral tile regardless of size and/or material shall be considered part of the payment for this item.
3. All connections shall be done using manufactured connectors.
4. Any quantity of gravel used to make connections utilizing Option #2 shall be considered part of the payment for this item. Determining the quantity of gravel needed for making connections using this option shall be the sole responsibility of the contractor. Cleanup of gravel stockpile areas shall be as per the requirements of ODOT CMS 104.04.
5. The contractor shall note on a dedicated copy of the plans, as provided by the construction inspector, the station, size, material, and connection option used to make all lateral connections.
6. Lateral types regarding having or not having a surface outlet will be marked by the construction inspector.

NRCS 606 PIPE
INSTALLATION DETAIL



Lined Waterway (NRCS #468)

TYPICAL ROCK LINED CHANNEL CROSS SECTION

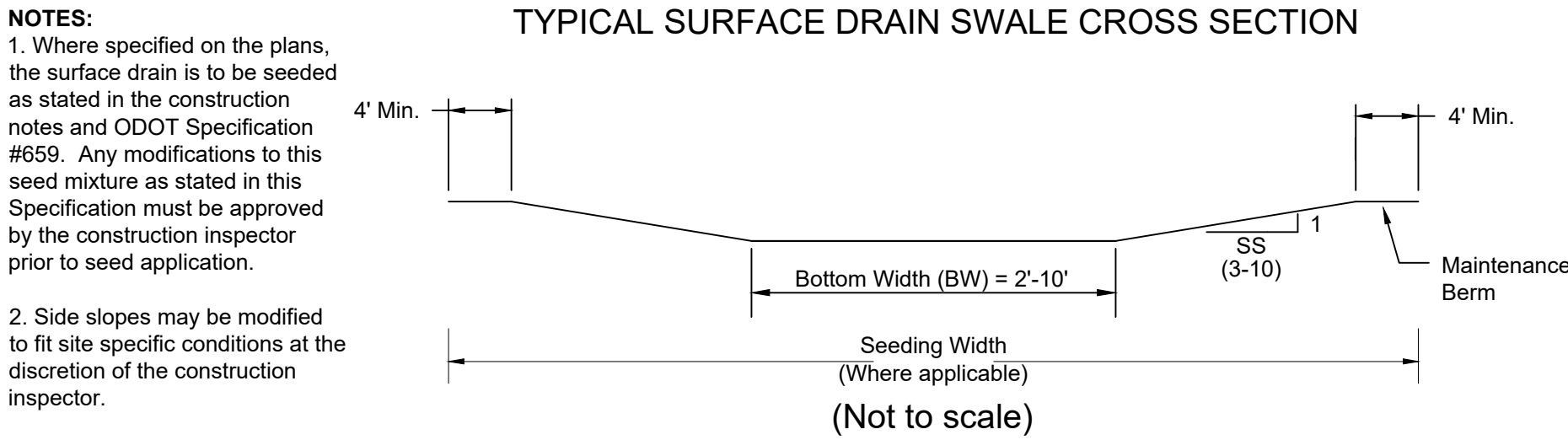


NOTES:

1. Side Slopes and Berms to be seeded as stated in the construction notes and ODOT Specification #659. Any modifications to this seed mixture as stated in the Specification must be approved by the construction inspector prior to seed application.
2. Side slopes above rock may be modified to fit site specific conditions at the discretion of the construction inspector.
3. Placement of Geotextile fabric may be used as a substitute for the ODOT #57 gravel bedding at the discretion of the contractor. If Geotextile fabric is used, it must comply with the specifications of NRCS #561 - Heavy Use Area Protection (P. 4, Paragraph 3). Copies of this Specification are available upon request.
4. Excavation necessary above the upper limit of rock placement to blend the 4:1 side slope to existing ground will be considered part of the per lineal foot payment for this item.

Surface Drain (NRCS 608)

TYPICAL SURFACE DRAIN SWALE CROSS SECTION



NOTES:

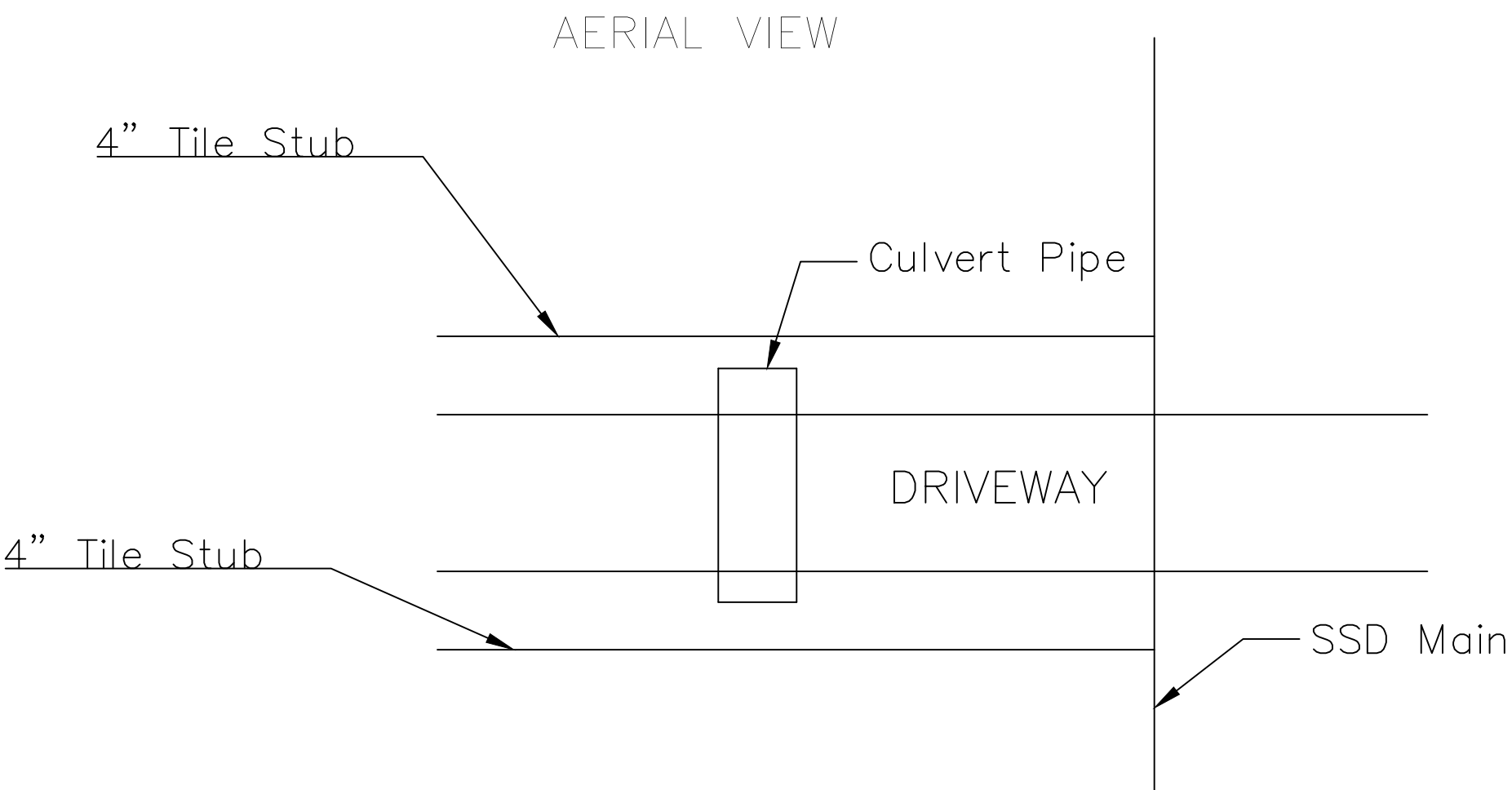
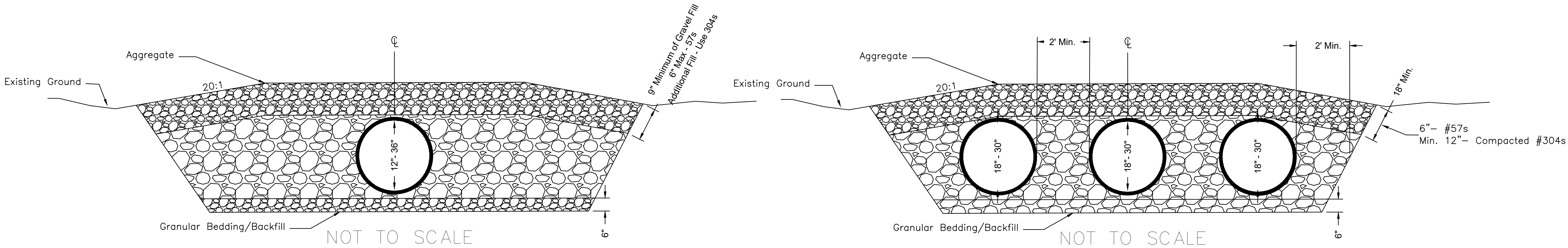
1. Where specified on the plans, the surface drain is to be seeded as stated in the construction notes and ODOT Specification #659. Any modifications to this seed mixture as stated in this Specification must be approved by the construction inspector prior to seed application.
2. Side slopes may be modified to fit site specific conditions at the discretion of the construction inspector.
3. All spoil from within the typical surface drain cross section shall be disposed of according to the specifications of NRCS #608 - Surface Drainage Main.

CULVERT DETAILS

CULVERT INSTALLATION DETAIL
(See Construction Note)

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DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

3
23



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

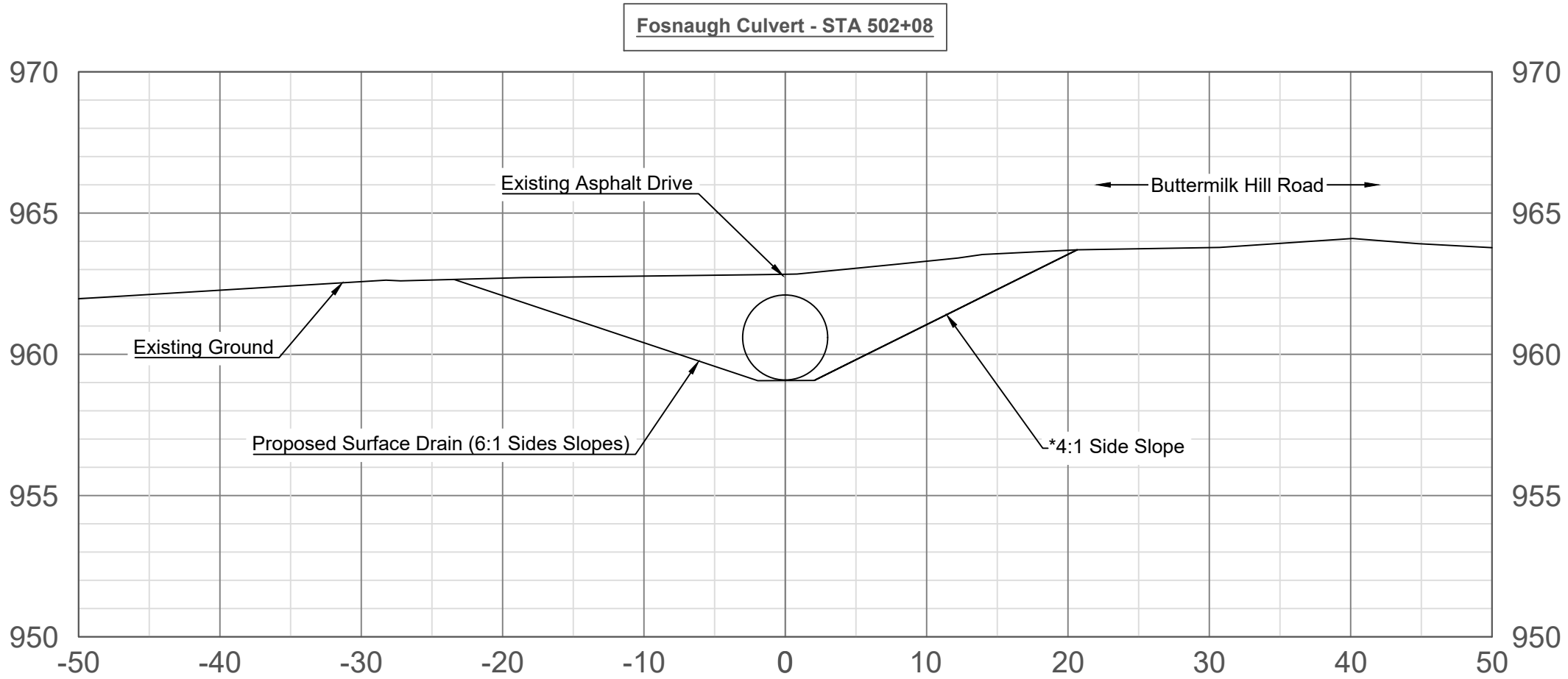
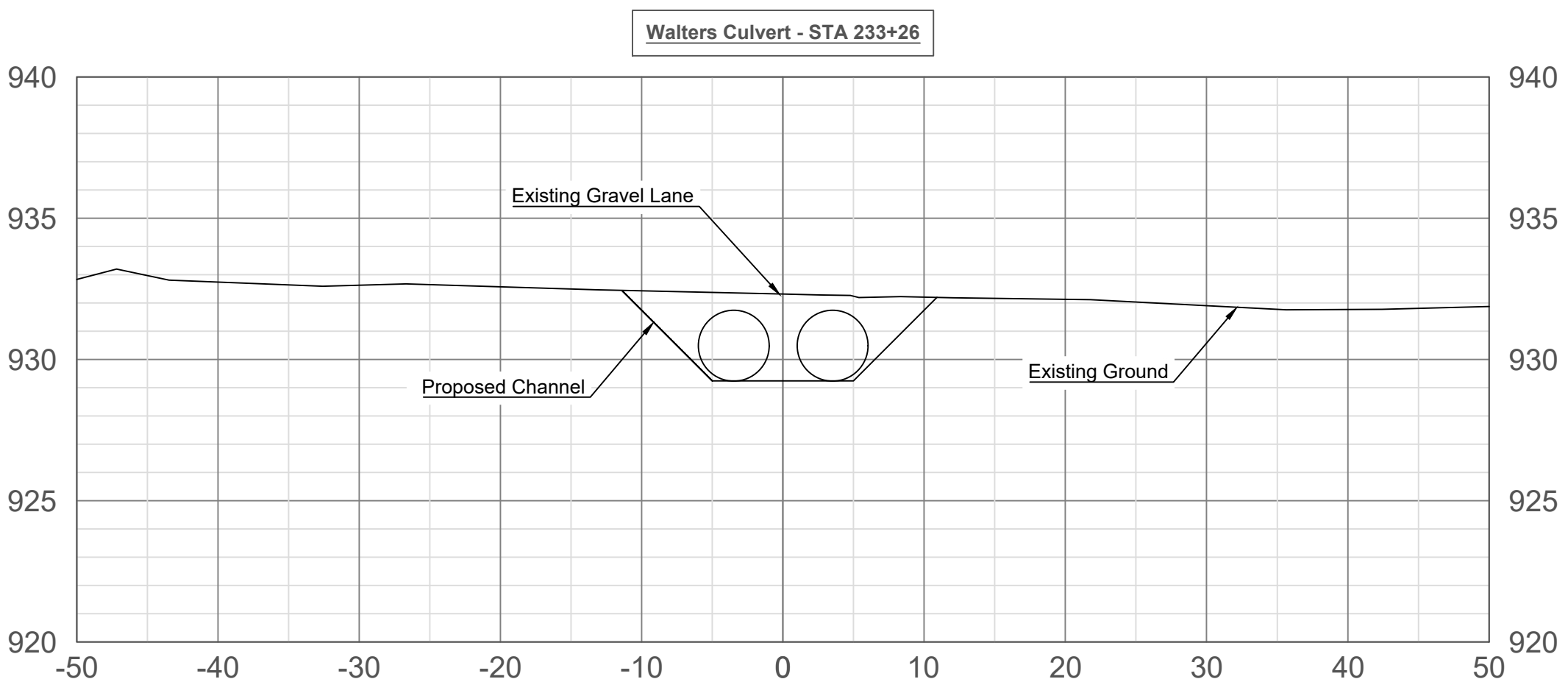
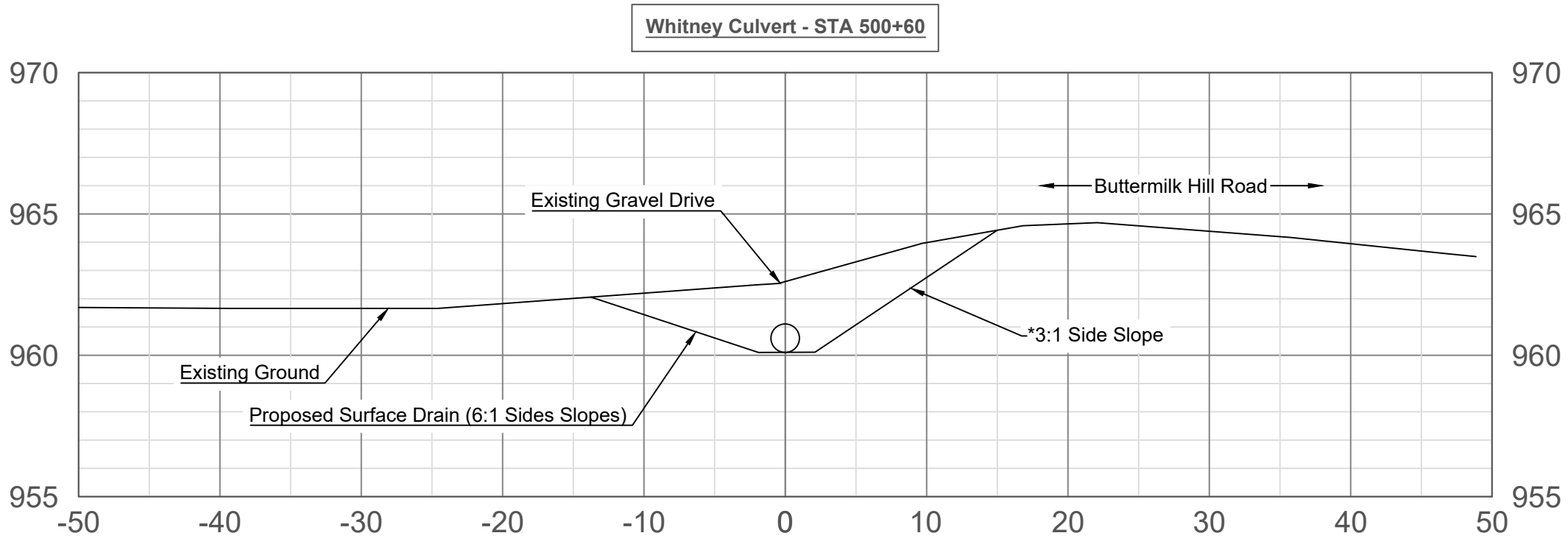
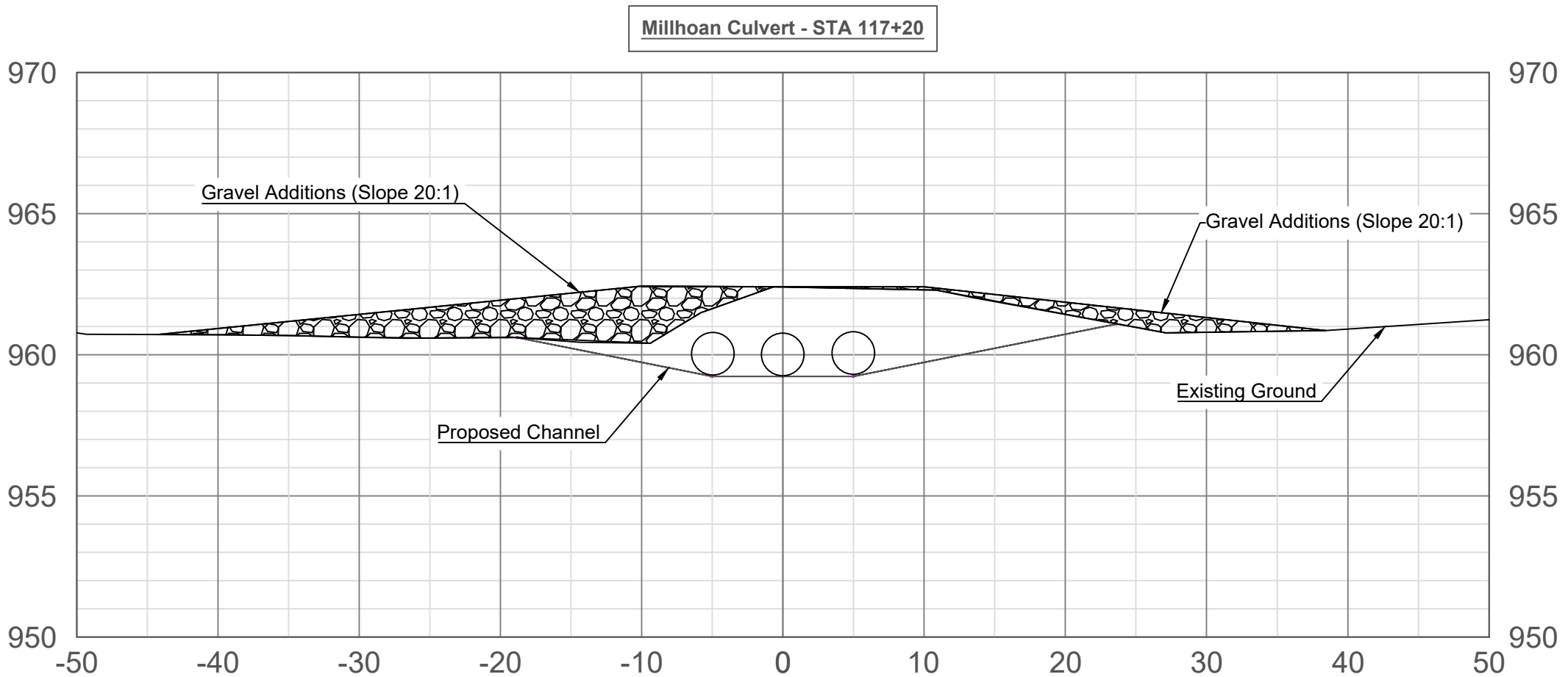
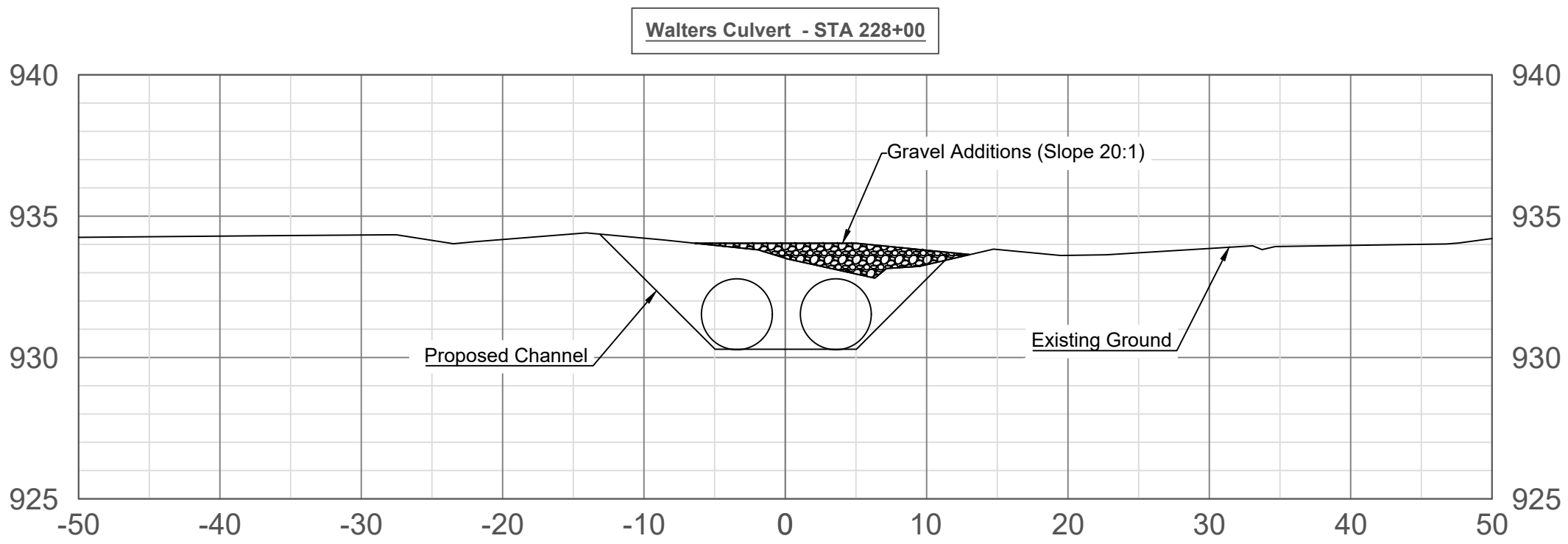
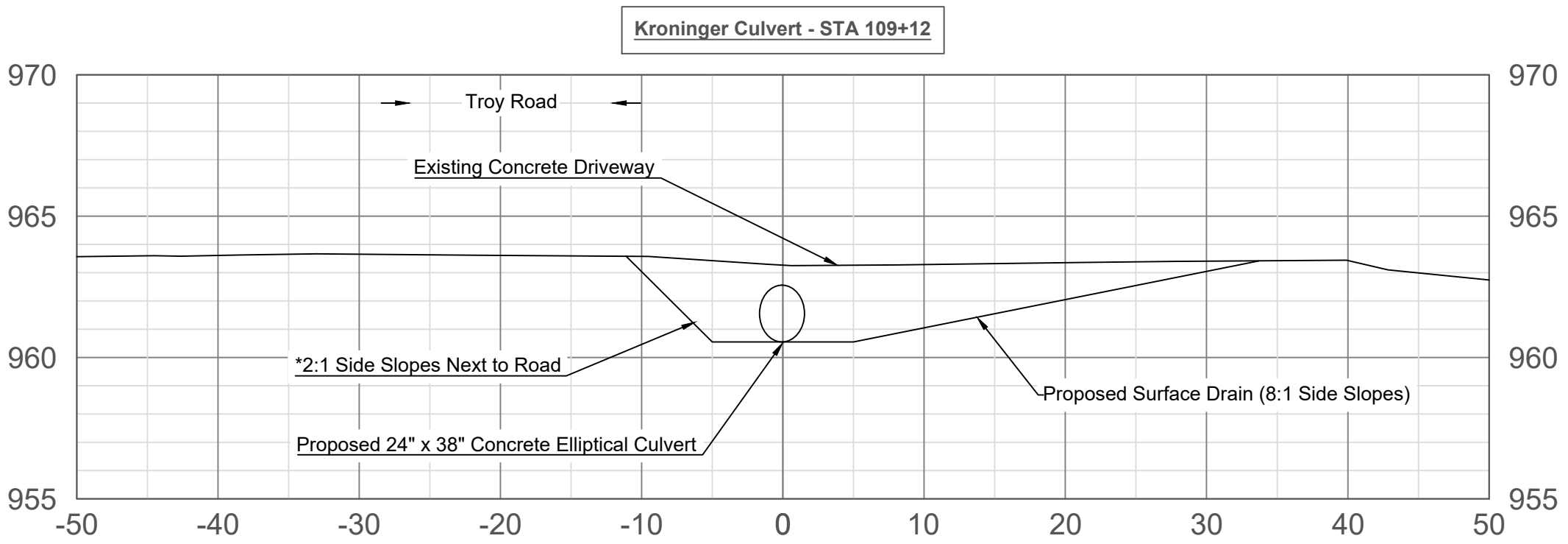
The method of joining culvert sections shall be such that the ends are fully entered and the inner surfaces are reasonably flush and even. Bands or gasket joints shall be used according to manufacturer's recommendations. Conduit shall be inspected before any backfill is placed. Any sections found to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

Backfilling

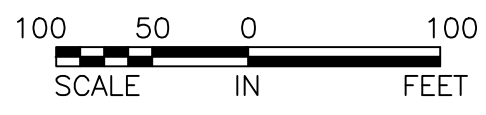
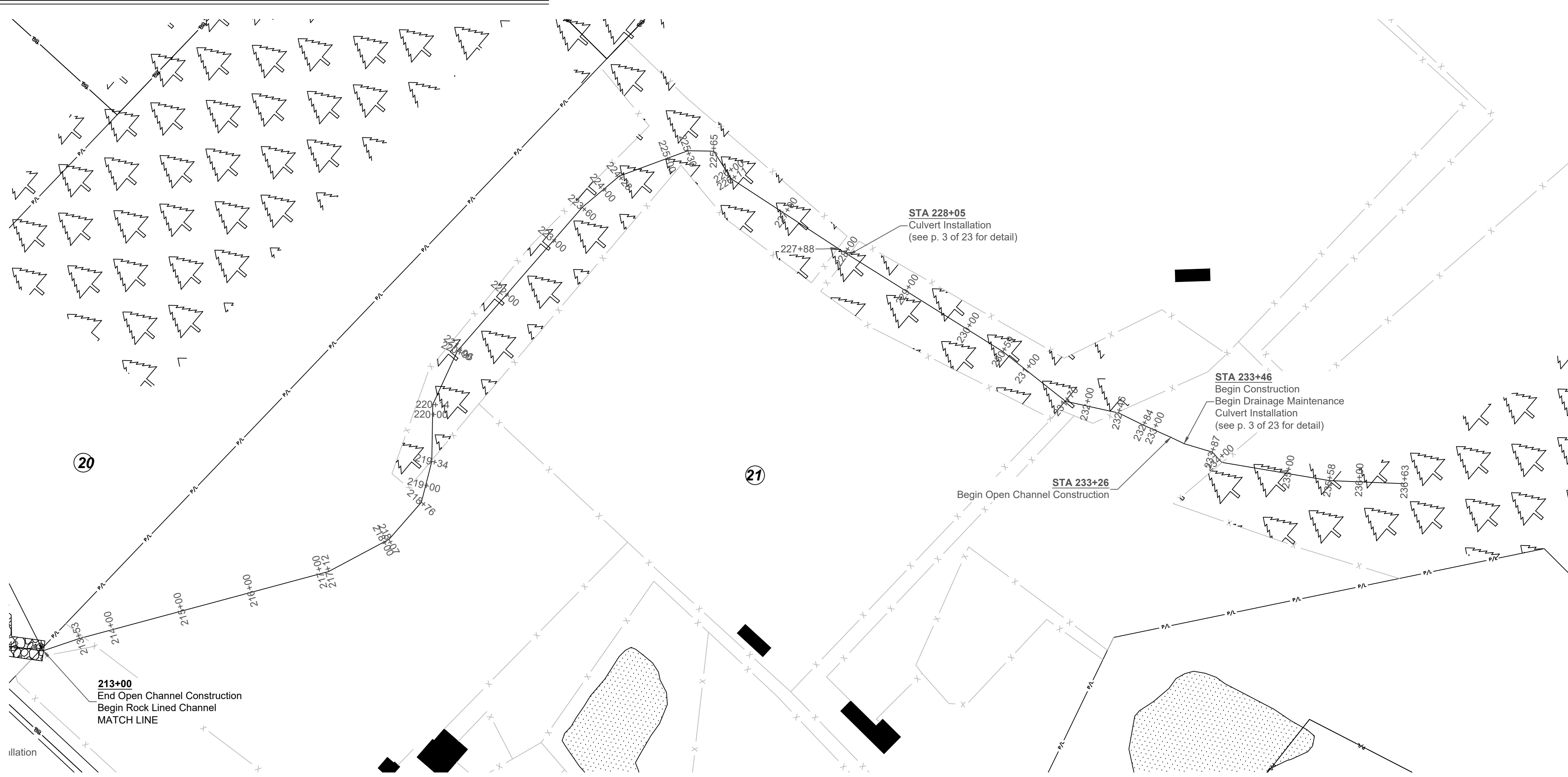
Granular backfill shall be placed in lifts not to exceed 8 inches up the sides of the culvert. Backfill shall be carefully compacted under the haunches of the pipe using mechanical compactors, spud bars or any other means approved by the Engineer.

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.

CULVERT DESIGN TABLE							
STA Entrance	STA Exit	Entrance Inv.	Exit Inv.	Size	Qty.	Material	Length
109+00	109+24	960.58'	960.52'	24" x 38"	1	ODOT 706.04	18'
117+00	117+40	959.24'	959.20'	18"	3	ODOT 707.33	40'
227+75	228+15	930.34'	930.26'	30"	2	ODOT 707.33	40'
233+06	233+46	929.20'	929.28'	30"	2	ODOT 707.33	40'
500+40	500+80	960.22'	959.94'	12"	1	ODOT 707.33	40'
501+88	502+28	959.18'	958.90'	36"	1	ODOT 707.33	40'



PLAN VIEW - SURFACE DRAIN



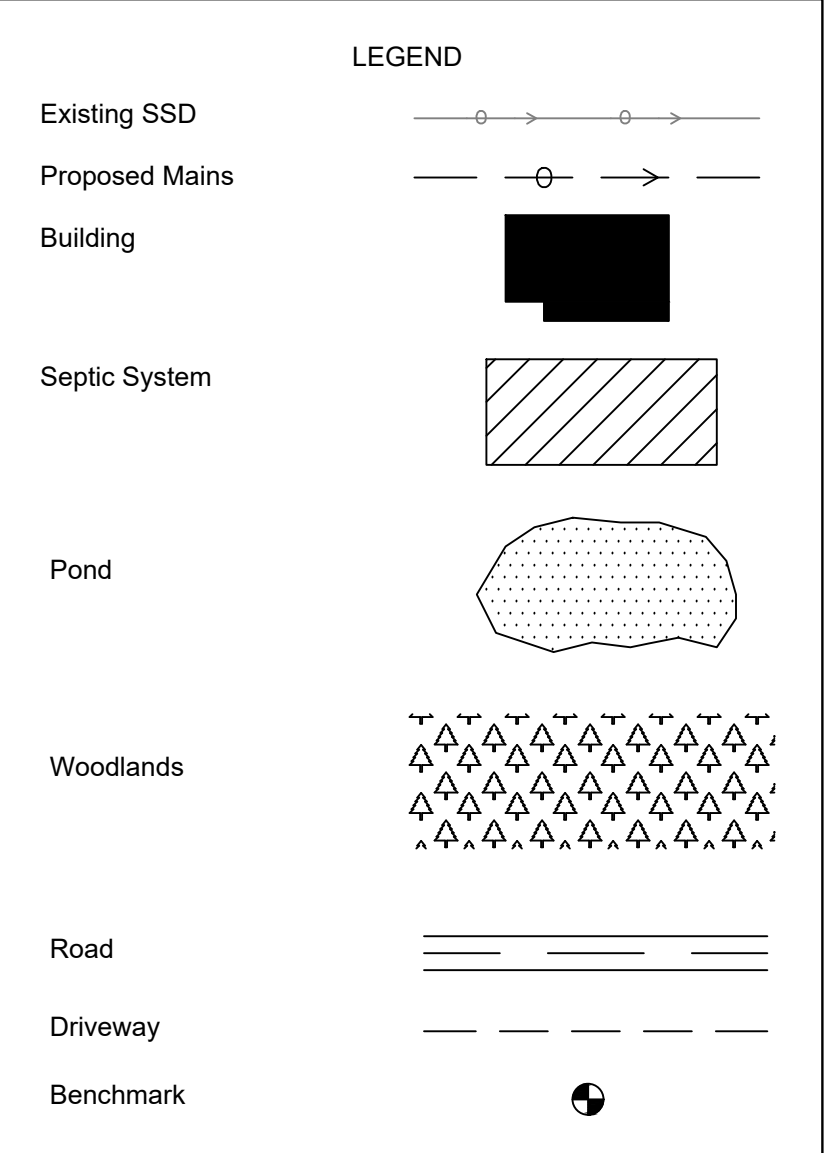
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DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

4
23

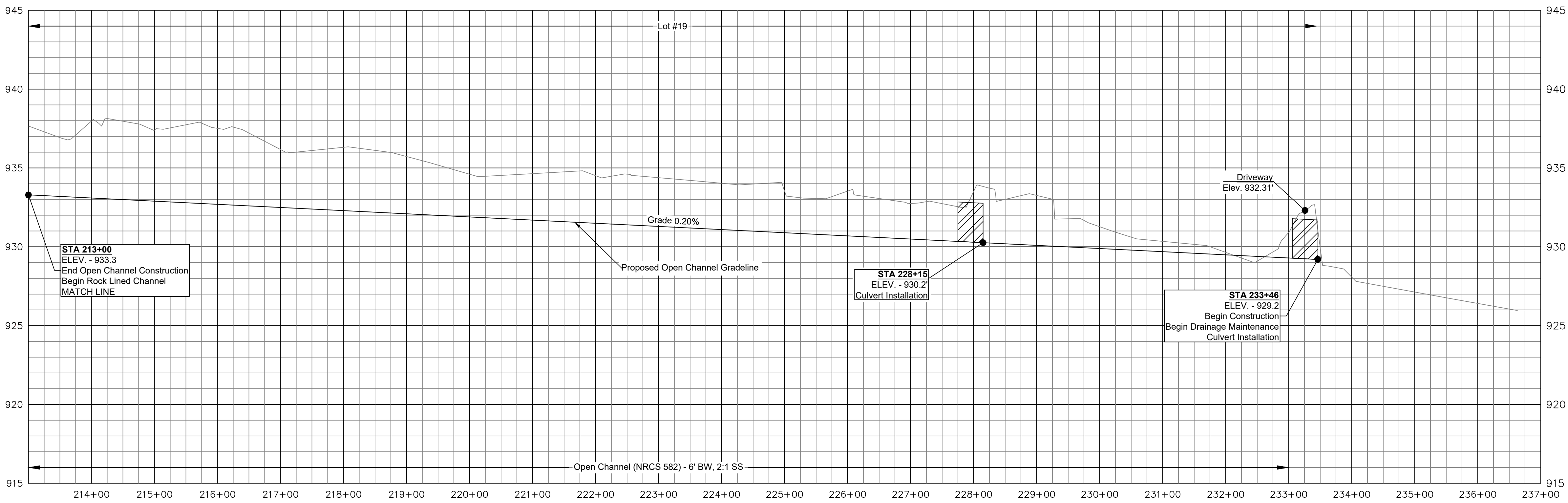
- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 23 shall apply.
 - Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from 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 23:
Typical Surface Drain Cross Section
Outlet Pipe Installation w/ Animal Guard
Rock Lined Channel
 - 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.

Main Section #1			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 468	Rock Lined Channel	190	Lineal Feet
NRCS 582	Open Channel Construction	2,046	Lineal Feet
NRCS 606	24" Pipe, Perforated	1,755	Lineal Feet
NRCS 606	24" Pipe, Non-Perforated	300	Lineal Feet
NRCS 606	24" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	5	Each
NRCS 608	Surface Drain - Swale	2,089	Lineal Feet
ODOT 202	Tile Removal	2,250	Lineal Feet
ODOT 611	30" Pipe (707.33), Type A Installation, Gravel Drive	160	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	23,500	Square Yards

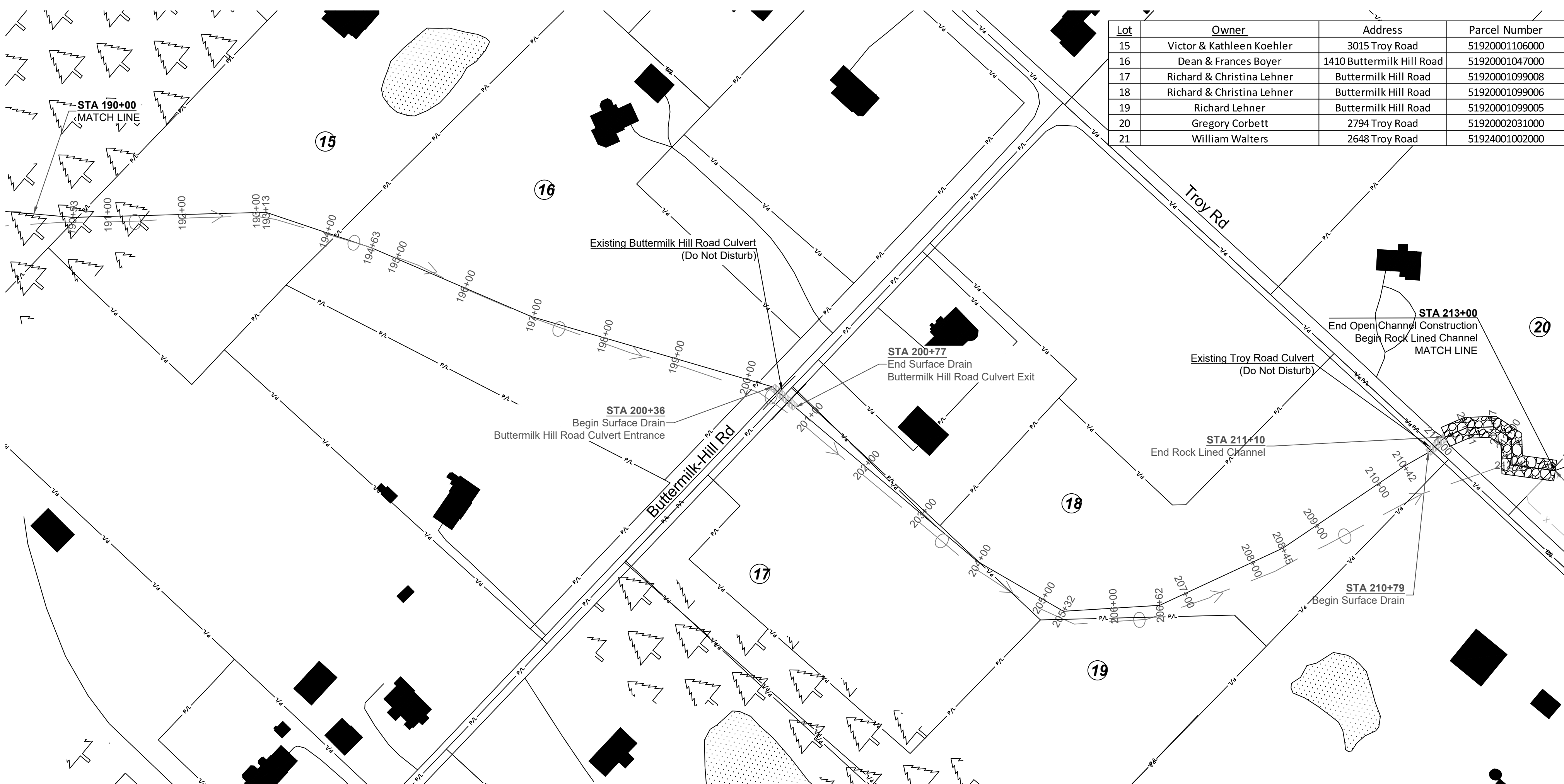
Lot	Owner	Address	Parcel Number
20	Gregory Corbett	2794 Troy Road	51920002031000
21	William Walters	2648 Troy Road	51924001002000



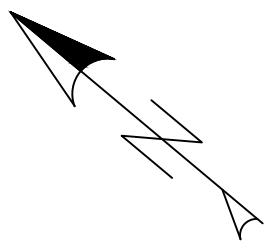
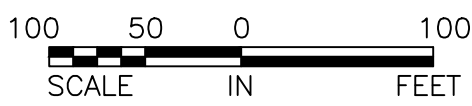
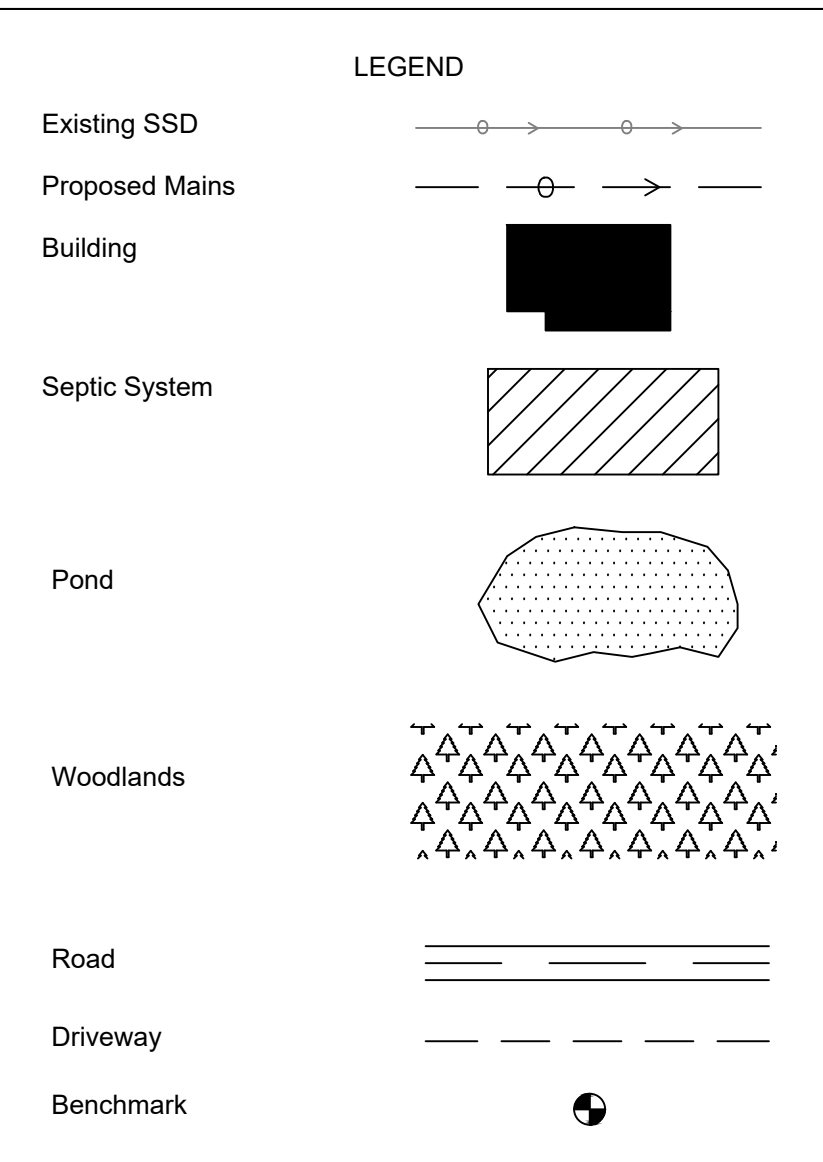
PROFILE - SURFACE DRAIN



PLAN VIEW – SURFACE DRAIN



Lot	Owner	Address	Parcel Number
15	Victor & Kathleen Koehler	3015 Troy Road	51920001106000
16	Dean & Frances Boyer	1410 Buttermilk Hill Road	51920001047000
17	Richard & Christina Lehner	Buttermilk Hill Road	51920001099008
18	Richard & Christina Lehner	Buttermilk Hill Road	51920001099006
19	Richard Lehner	Buttermilk Hill Road	51920001099005
20	Gregory Corbett	2794 Troy Road	51920002031000
21	William Walters	2648 Troy Road	51924001002000



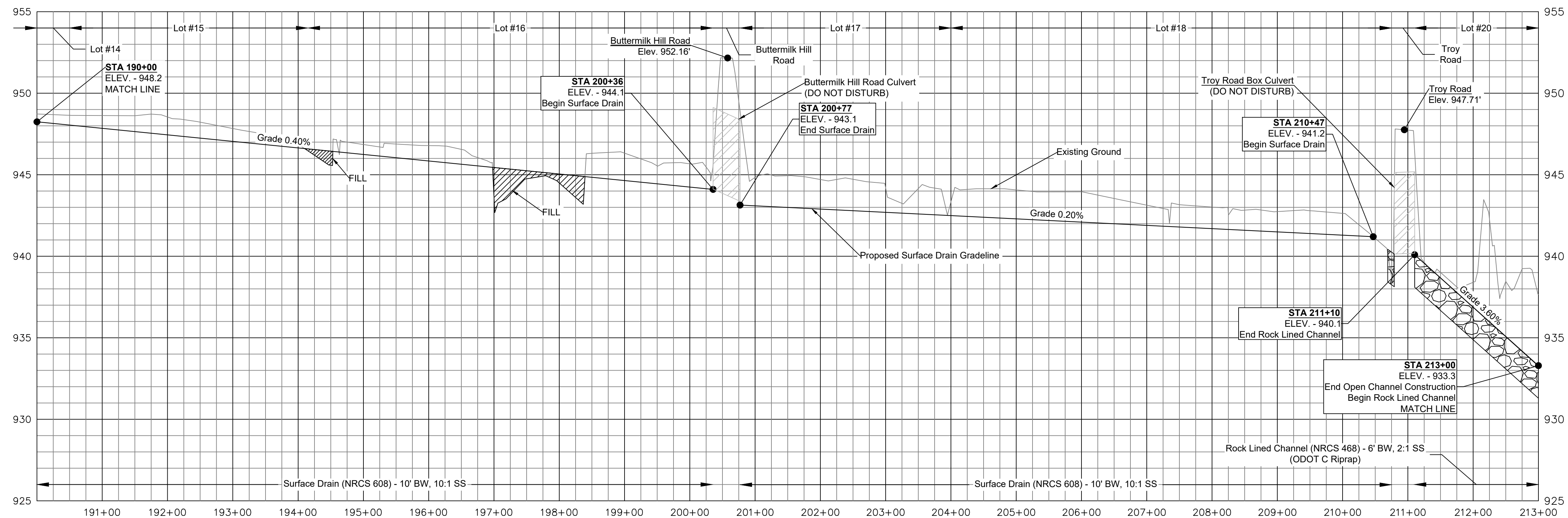
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ENGINEERING DRAWINGS

5
23

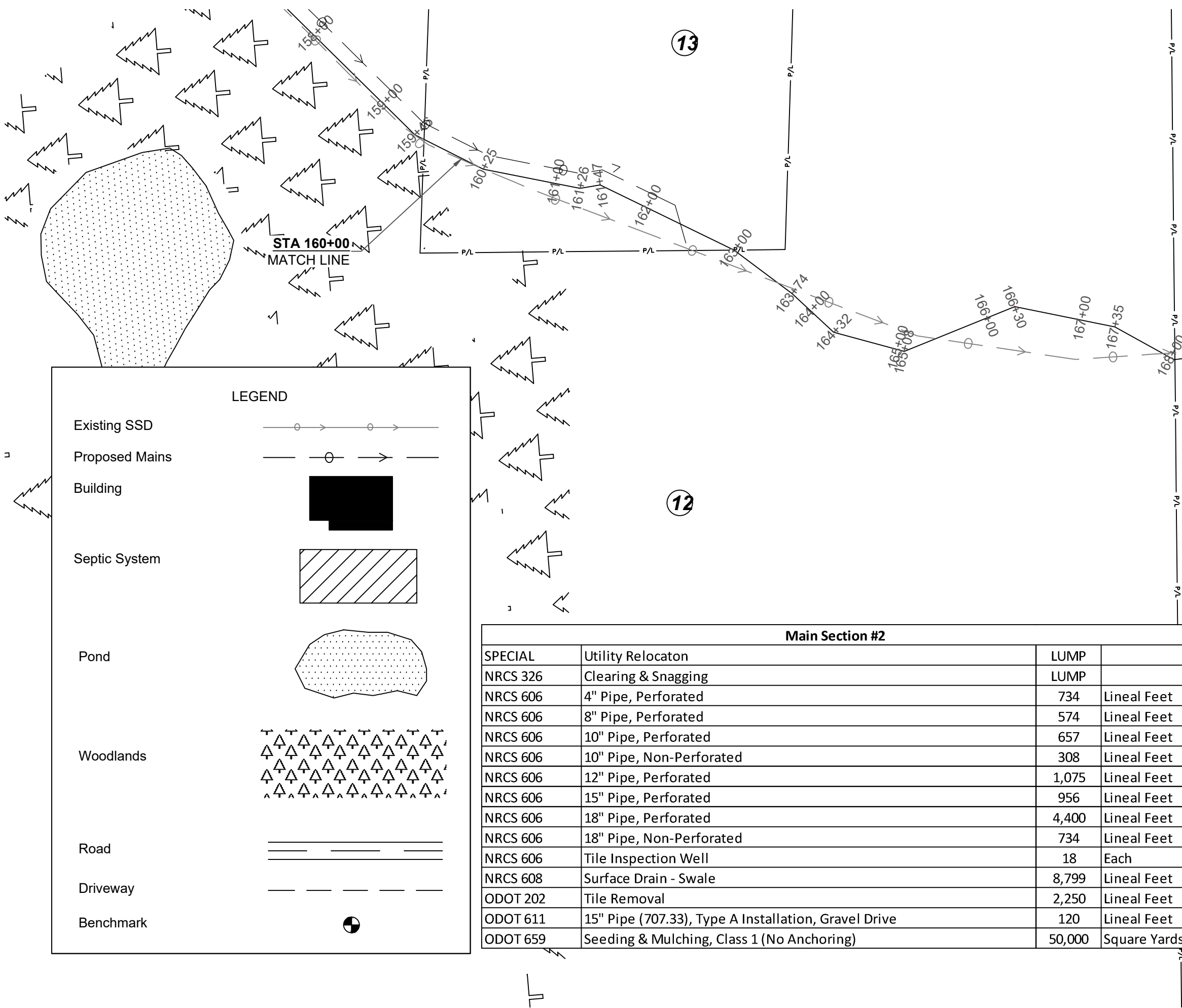
- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 23 shall apply.
 - Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from 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 23:
Typical Surface Drain Cross Section
 - 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.

Main Section #1			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocation	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 468	Rock Lined Channel	190	Lineal Feet
NRCS 582	Open Channel Construction	2,046	Lineal Feet
NRCS 606	24" Pipe, Perforated	1,755	Lineal Feet
NRCS 606	24" Pipe, Non-Perforated	300	Lineal Feet
NRCS 606	24" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	5	Each
NRCS 608	Surface Drain - Swale	2,089	Lineal Feet
ODOT 202	Tile Removal	2,250	Lineal Feet
ODOT 611	30" Pipe (707.33), Type A Installation, Gravel Drive	160	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	23,500	Square Yards

PROFILE – SURFACE DRAIN



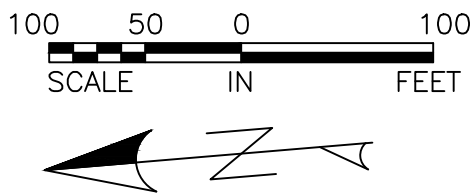
PLAN VIEW - SURFACE DRAIN



Main Section #2			
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 606	4" Pipe, Perforated	734	Lineal Feet
NRCS 606	8" Pipe, Perforated	574	Lineal Feet
NRCS 606	10" Pipe, Perforated	657	Lineal Feet
NRCS 606	10" Pipe, Non-Perforated	308	Lineal Feet
NRCS 606	12" Pipe, Perforated	1,075	Lineal Feet
NRCS 606	15" Pipe, Perforated	956	Lineal Feet
NRCS 606	18" Pipe, Perforated	4,400	Lineal Feet
NRCS 606	18" Pipe, Non-Perforated	734	Lineal Feet
NRCS 606	Tile Inspection Well	18	Each
NRCS 608	Surface Drain - Swale	8,799	Lineal Feet
ODOT 202	Tile Removal	2,250	Lineal Feet
ODOT 611	15" Pipe (707.33), Type A Installation, Gravel Drive	120	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	50,000	Square Yards

CONSTRUCTION NOTES

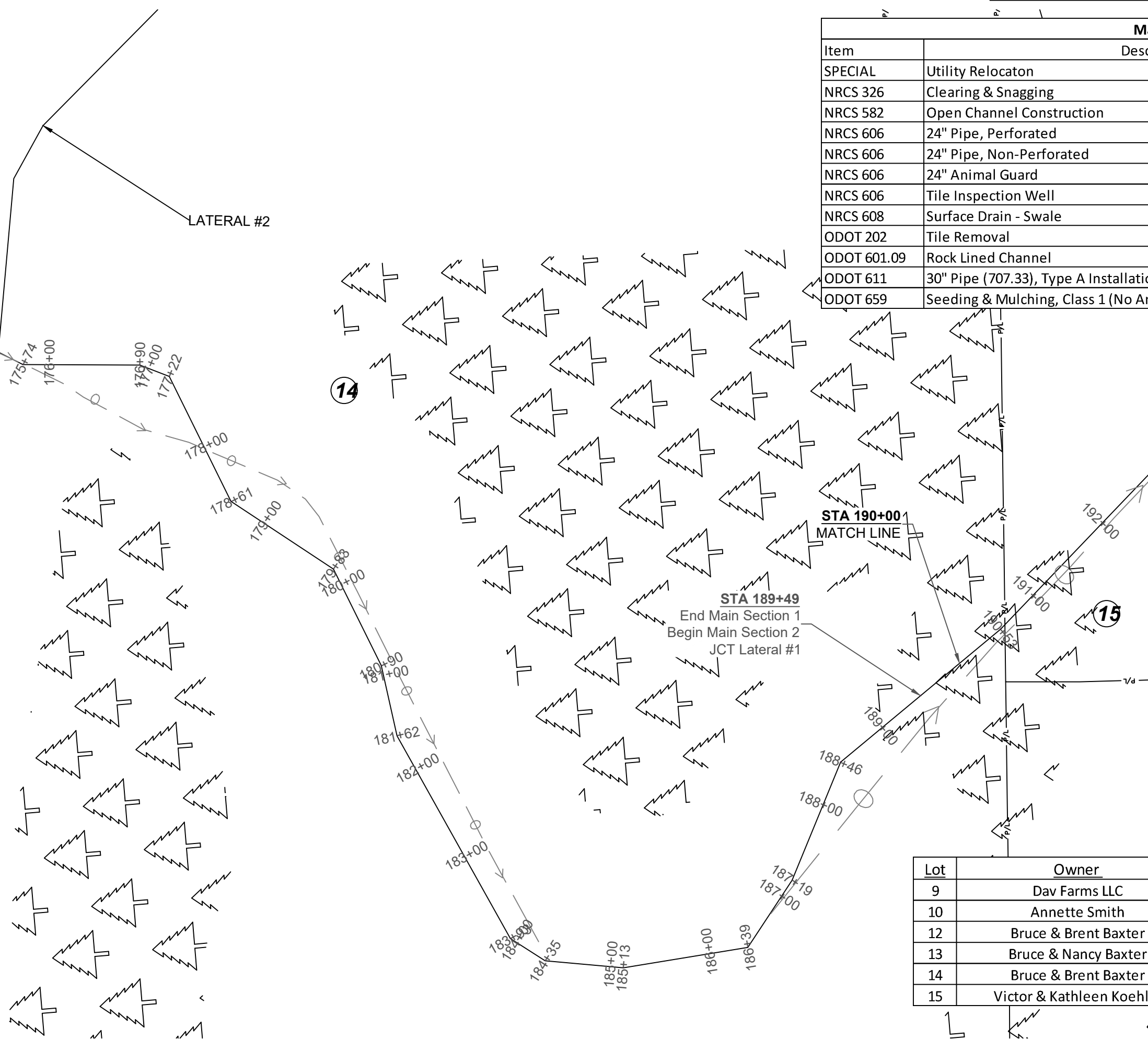
- All General Construction Notes on P. 2 of 23 shall apply.
- Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.
- Details to be referenced on p. 2 of 23:
Typical Surface Drain Cross Section
- 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.



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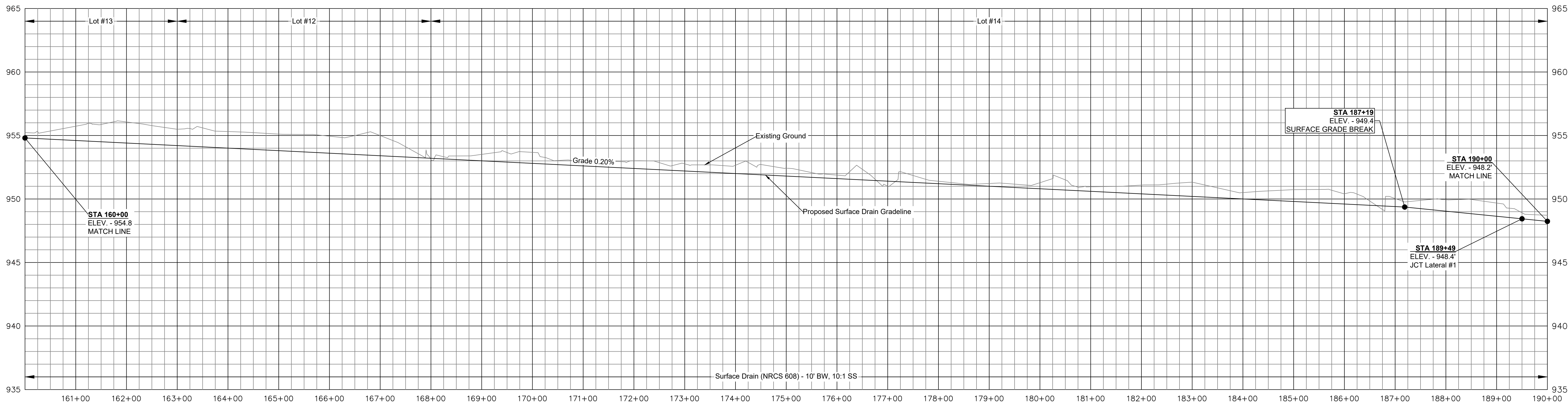
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Main Section #1			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 582	Open Channel Construction	2,046	Lineal Feet
NRCS 606	24" Pipe, Perforated	1,755	Lineal Feet
NRCS 606	24" Pipe, Non-Perforated	300	Lineal Feet
NRCS 606	24" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	5	Each
NRCS 608	Surface Drain - Swale	2,089	Lineal Feet
ODOT 202	Tile Removal	2,250	Lineal Feet
ODOT 601.09	Rock Lined Channel	190	Lineal Feet
ODOT 611	30" Pipe (707.33), Type A Installation, Gravel Drive	80	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	23,500	Square Yards

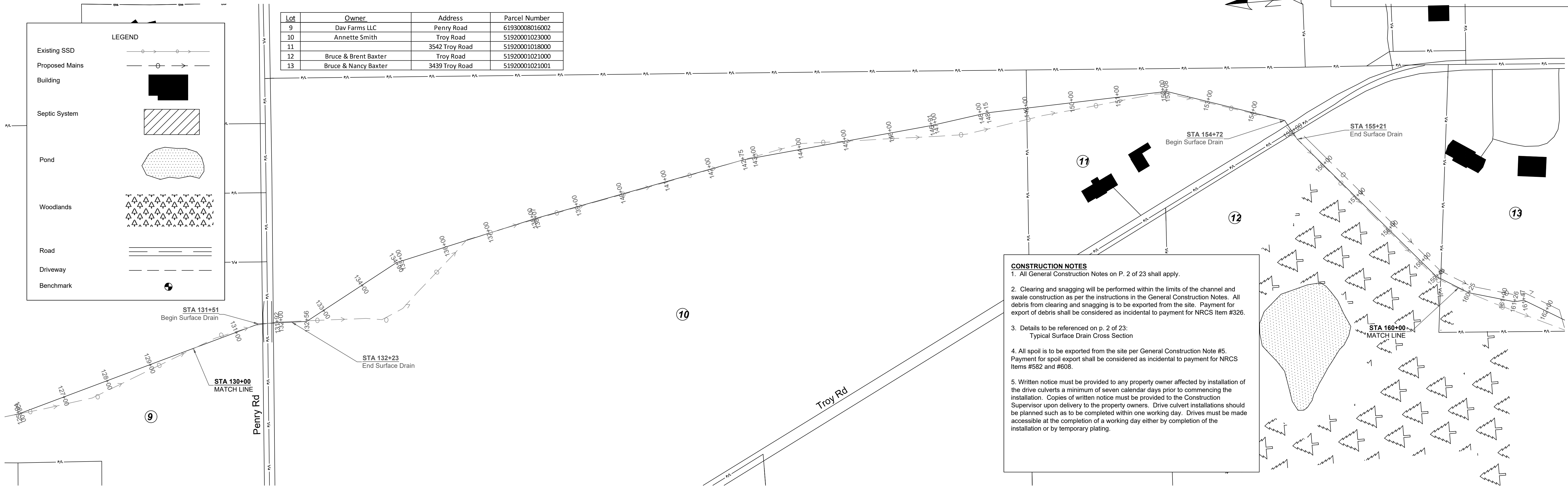


Lot	Owner	Address	Parcel Number
9	Dav Farms LLC	Penry Road	61930008016002
10	Annette Smith	Troy Road	51920001023000
12	Bruce & Brent Baxter	Troy Road	51920001021000
13	Bruce & Nancy Baxter	3439 Troy Road	51920001021001
14	Bruce & Brent Baxter	Troy Road	51920001109000
15	Victor & Kathleen Koehler	3015 Troy Road	51920001106000

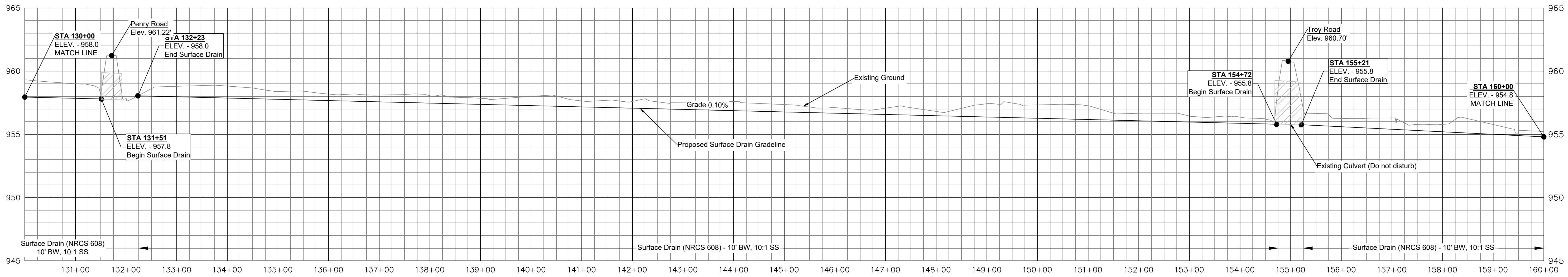
PROFILE - SURFACE DRAIN



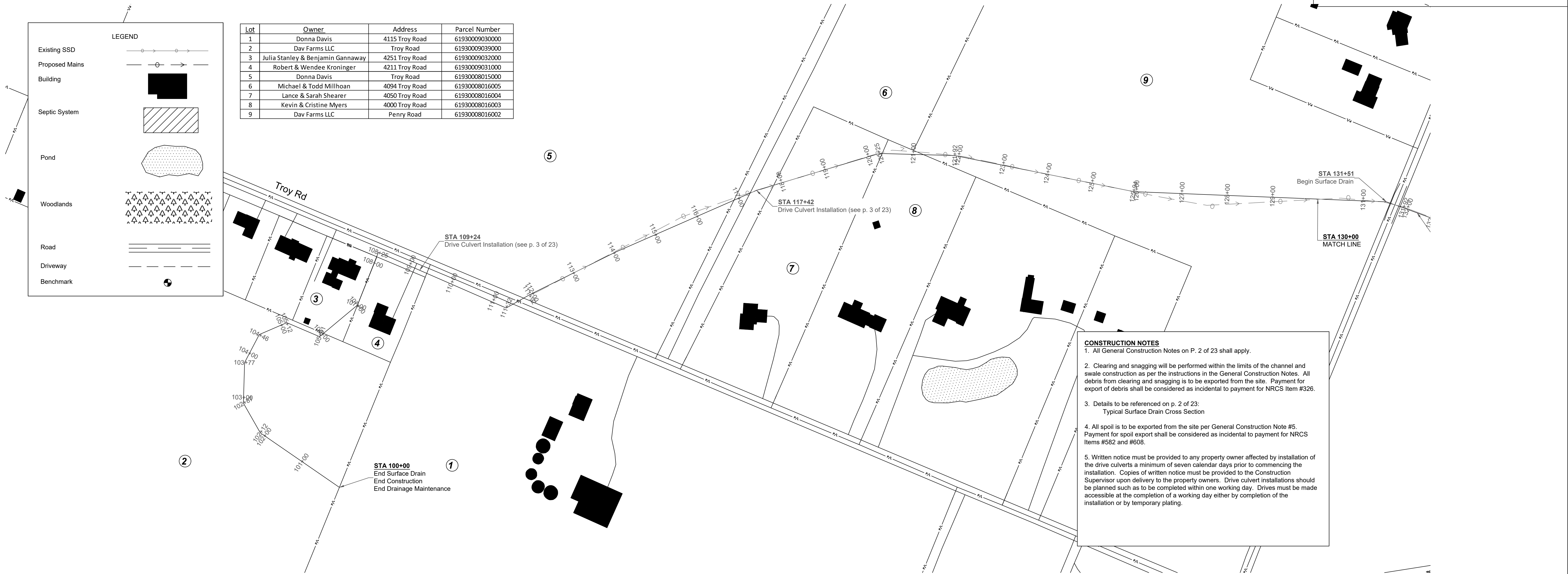
PLAN VIEW - SURFACE DRAIN



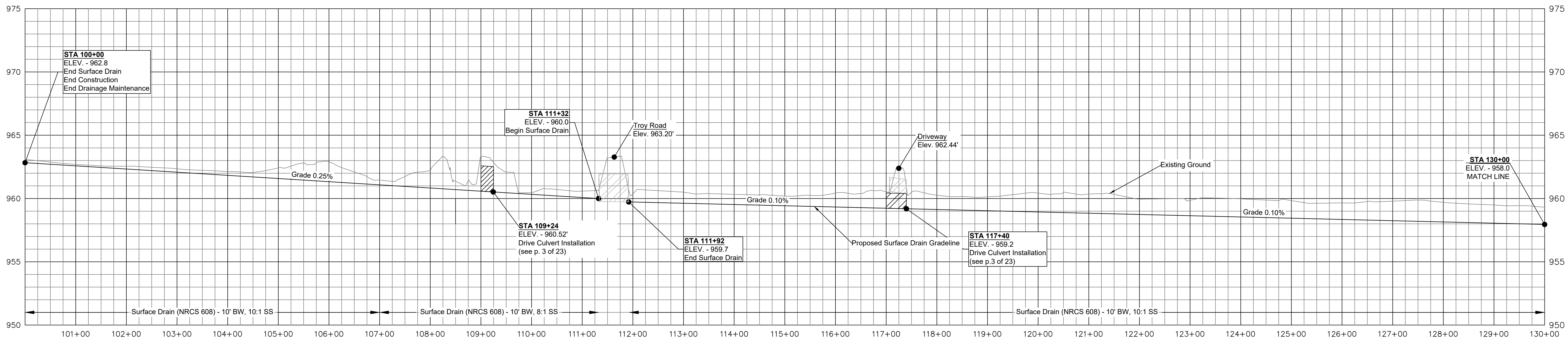
PROFILE - SURFACE DRAIN



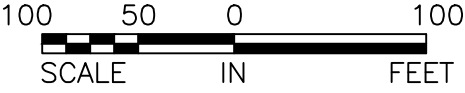
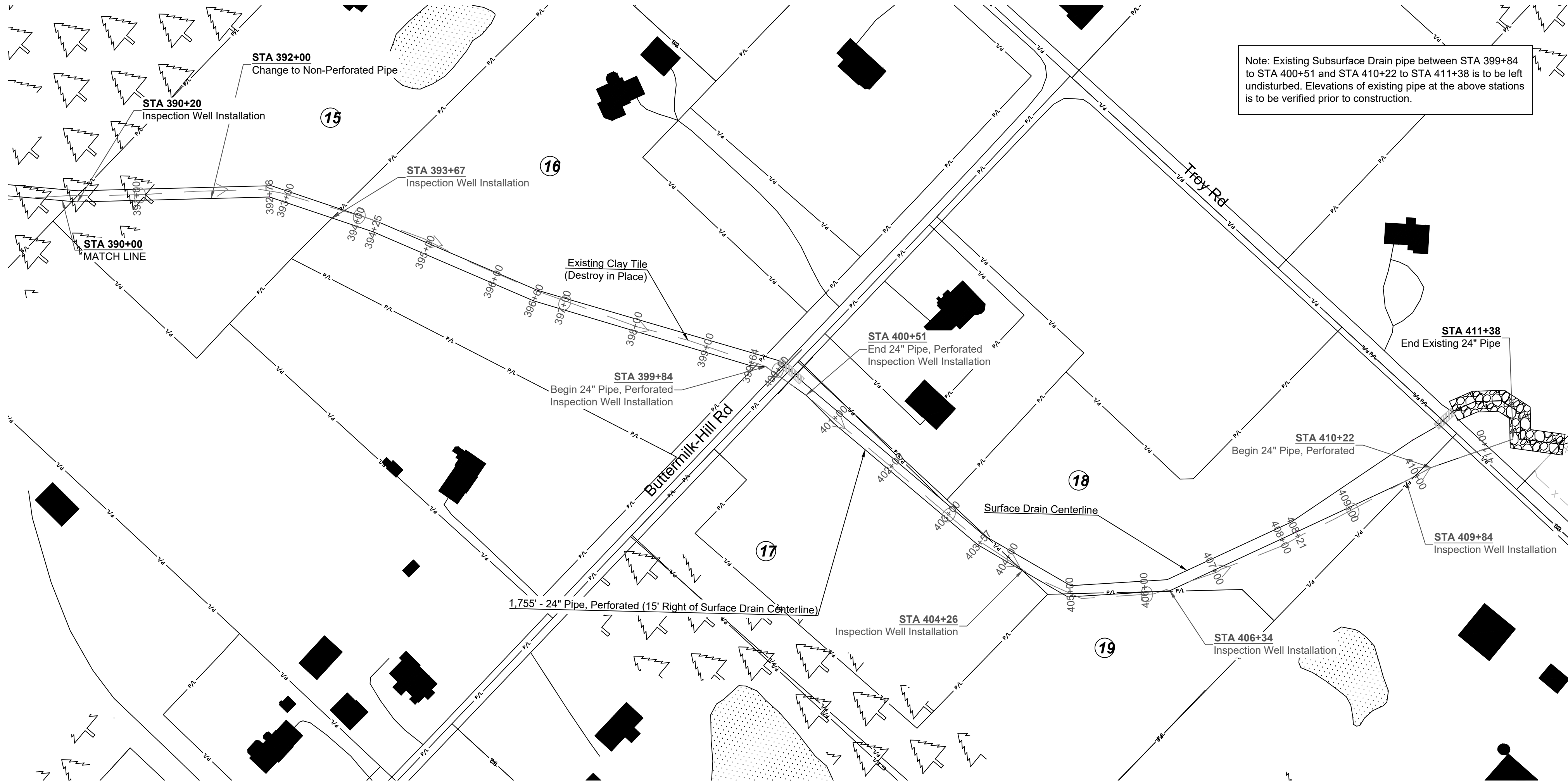
PLAN VIEW - SURFACE DRAIN



PROFILE - SURFACE DRAIN



PLAN VIEW - SUBSURFACE DRAIN



DAVIS #240
DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

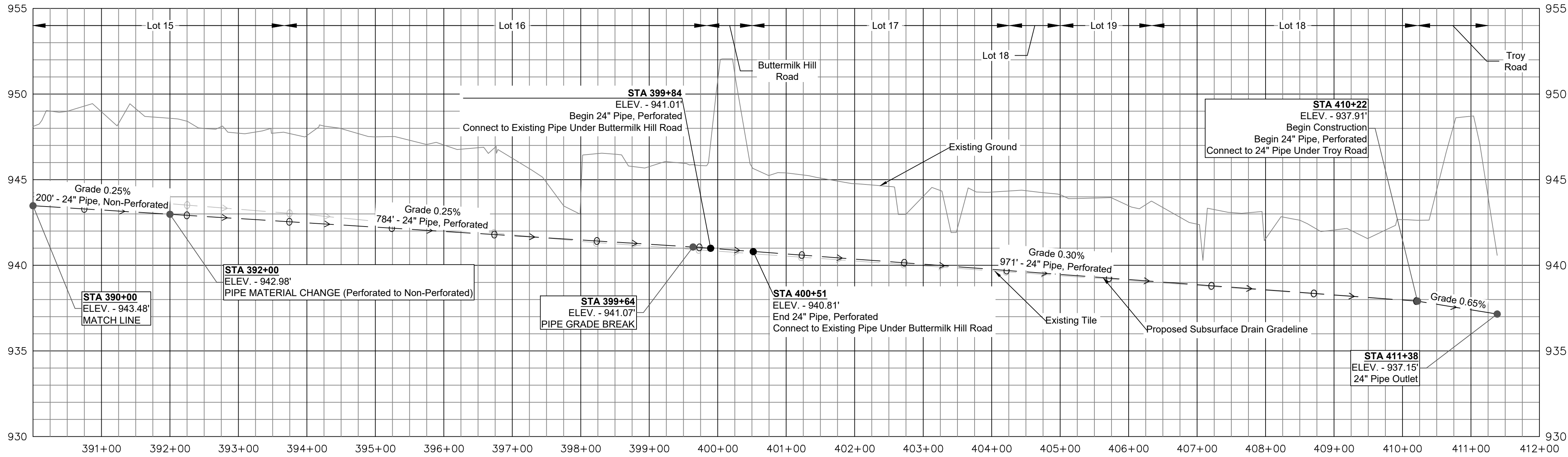
9
23

- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 23 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 23:
 - Typical Subsurface Drain Installation
 - Typical Subsurface Drain Lateral Connection
 - Outlet Pipe Installation w/ Animal Guard
 - 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.

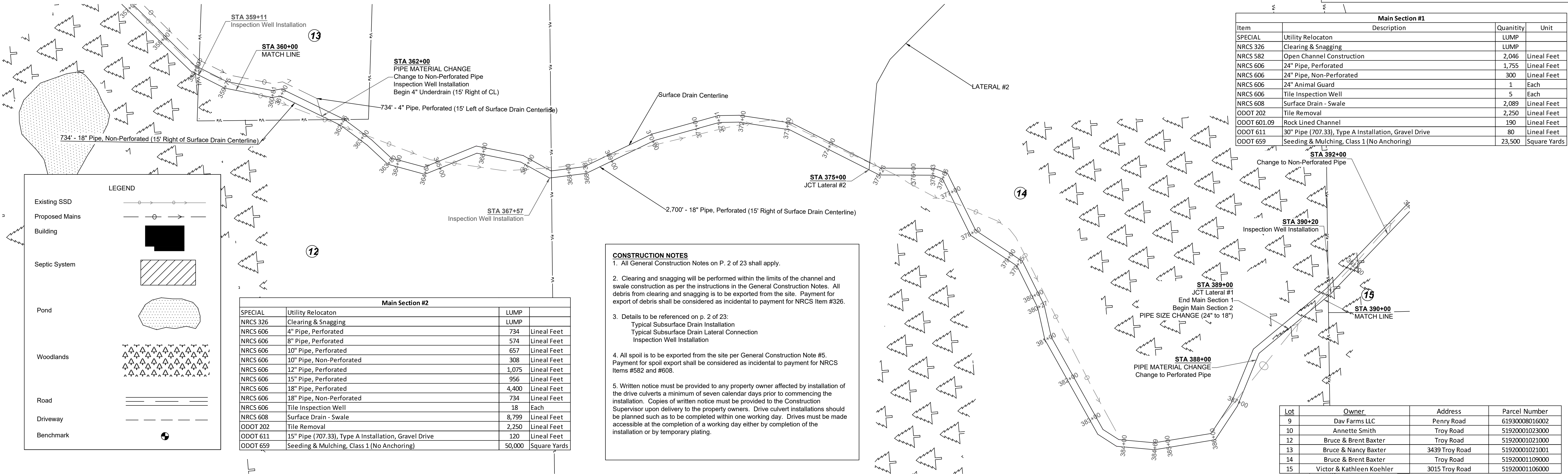
Main Section #1			
Item	Description	Quantity	Unit
SPECIAL	Utility Relocation	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 582	Open Channel Construction	2,046	Lineal Feet
NRCS 606	24" Pipe, Perforated	1,755	Lineal Feet
NRCS 606	24" Pipe, Non-Perforated	300	Lineal Feet
NRCS 606	24" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	5	Each
NRCS 608	Surface Drain - Swale	2,089	Lineal Feet
ODOT 202	Tile Removal	2,250	Lineal Feet
ODOT 601.09	Rock Lined Channel	190	Lineal Feet
ODOT 611	30" Pipe (707.33), Type A Installation, Gravel Drive	80	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	23,500	Square Yards

Lot	Owner	Address	Parcel Number
15	Victor & Kathleen Koehler	3015 Troy Road	51920001106000
16	Dean & Frances Boyer	1410 Buttermilk Hill Road	51920001047000
17	Richard & Christina Lehner	Buttermilk Hill Road	51920001099008
18	Richard & Christina Lehner	Buttermilk Hill Road	51920001099006
19	Richard Lehner	Buttermilk Hill Road	51920001099005
20	Gregory Corbett	2794 Troy Road	51920002031000
21	William Walters	2648 Troy Road	51924001002000

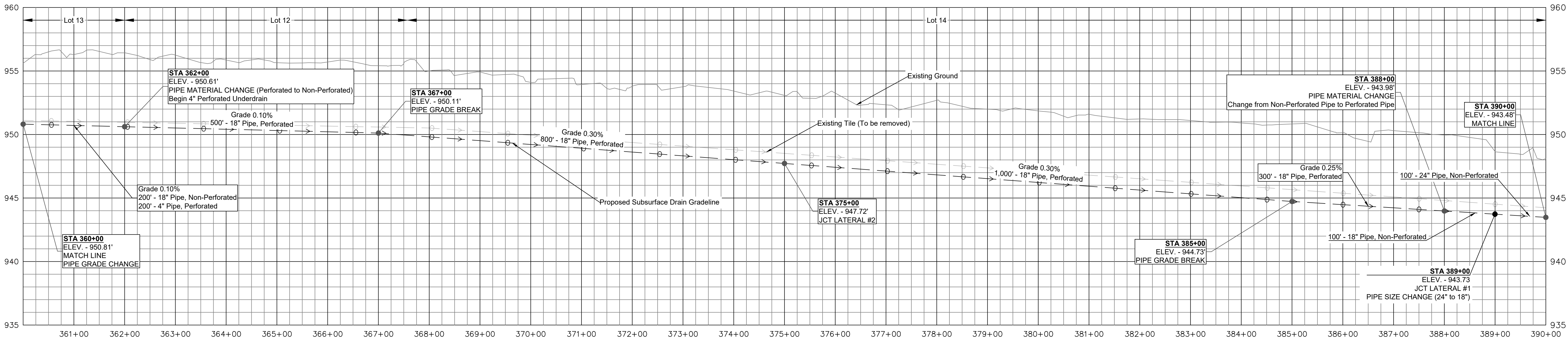
PROFILE - SUBSURFACE DRAIN



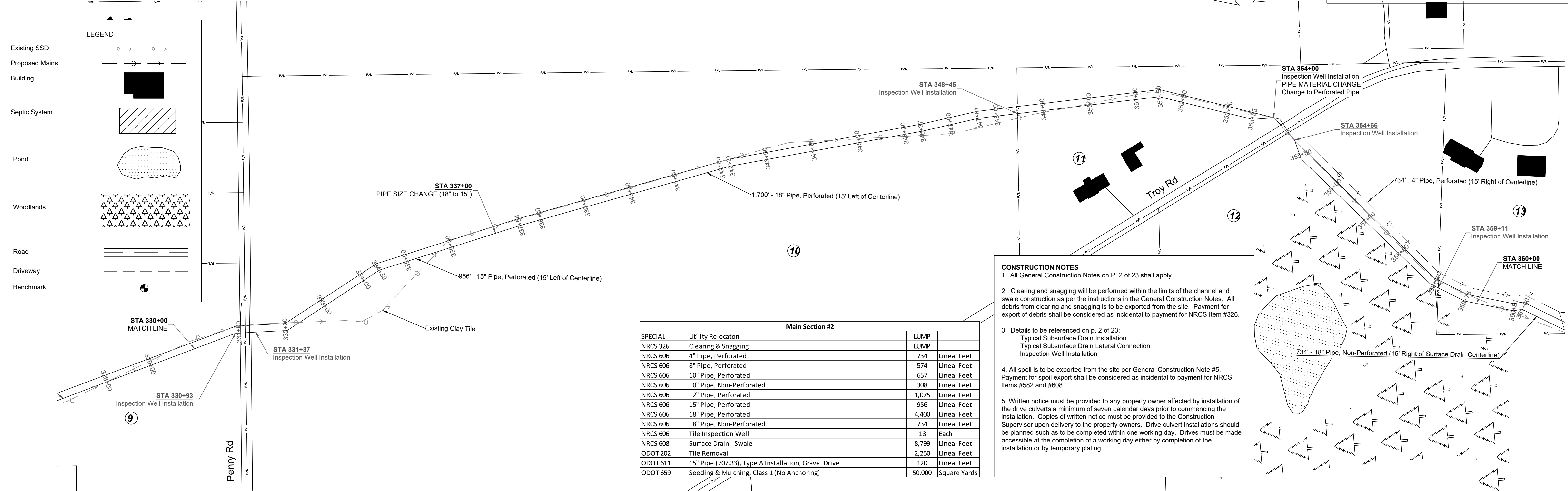
PLAN VIEW - SUBSURFACE DRAIN



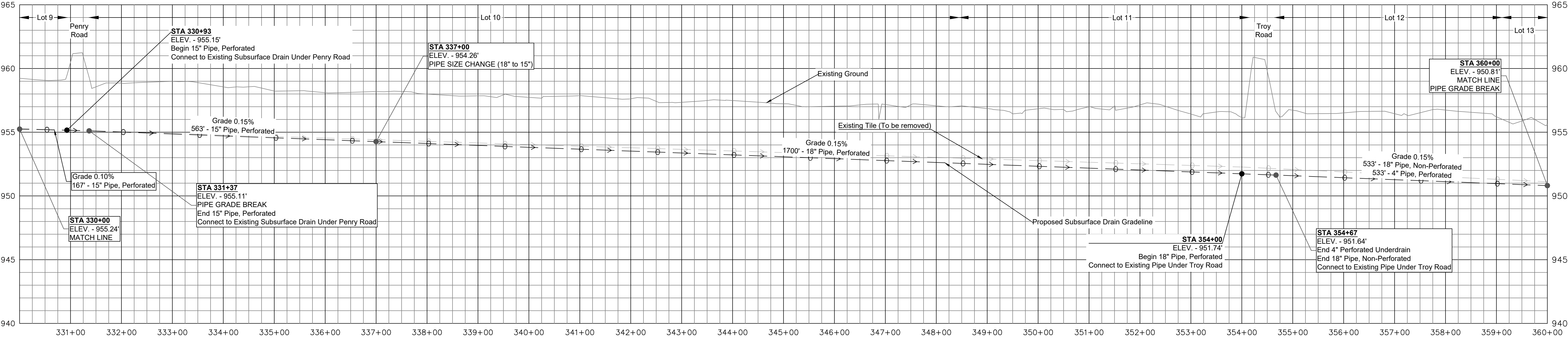
PROFILE - SUBSURFACE DRAIN



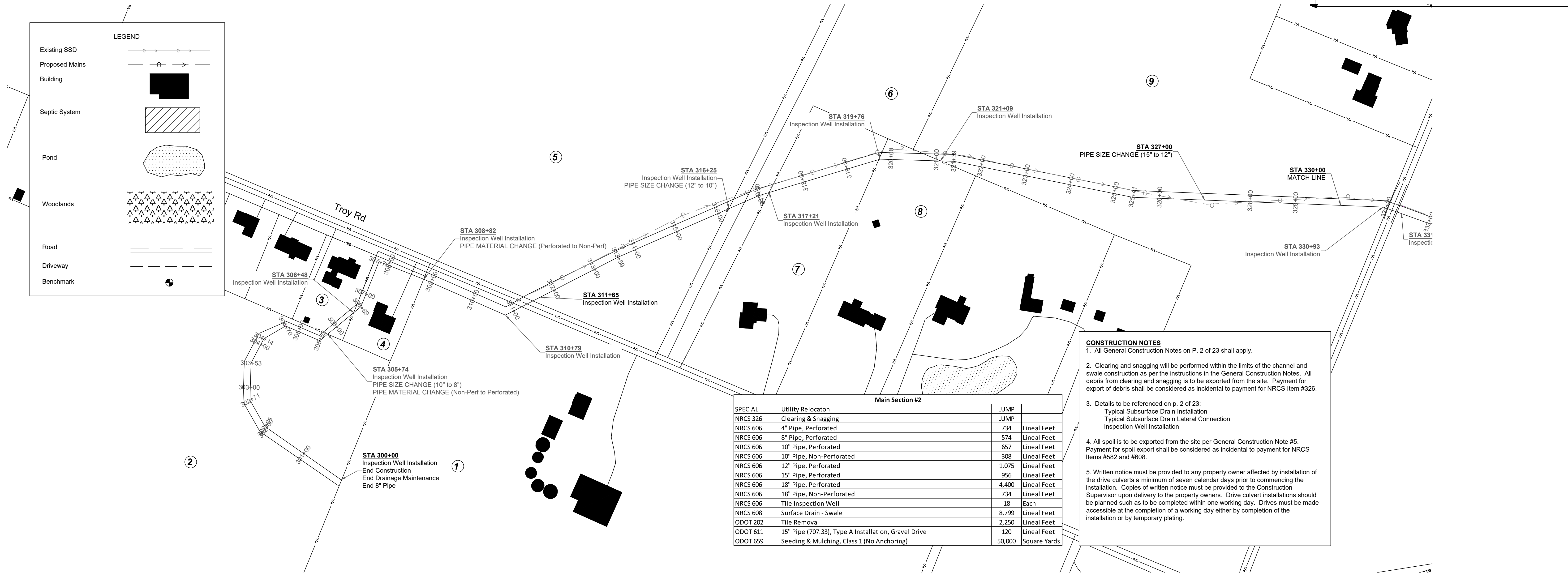
PLAN VIEW - SUBSURFACE DRAIN



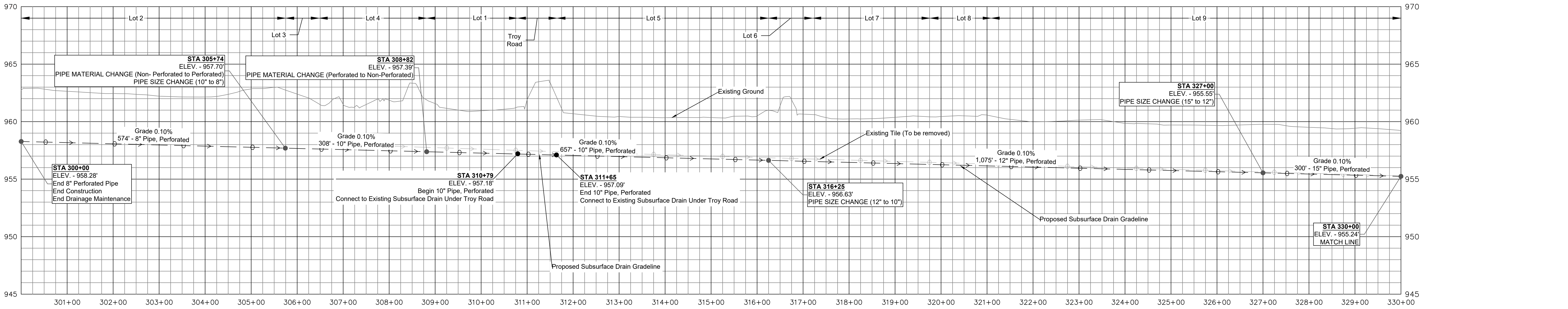
PROFILE - SUBSURFACE DRAIN



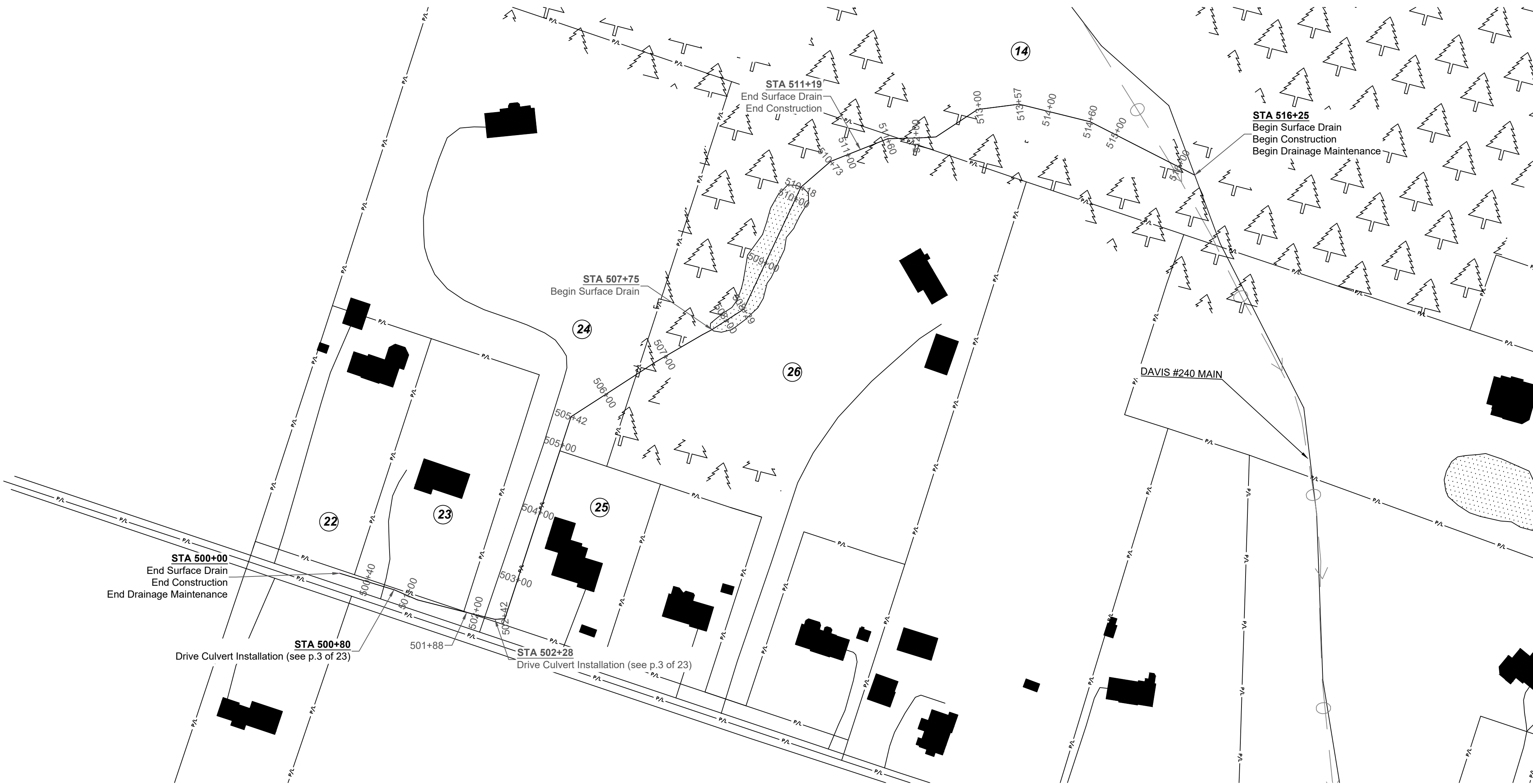
PLAN VIEW - SUBSURFACE DRAIN



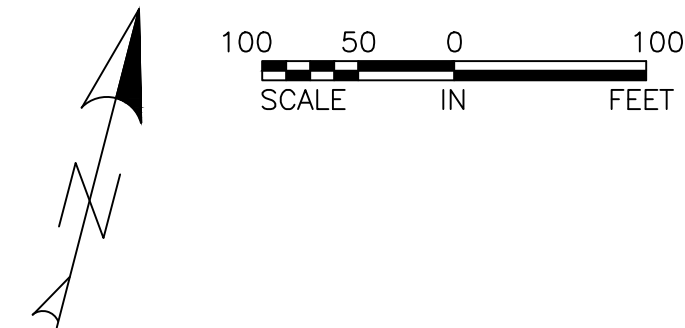
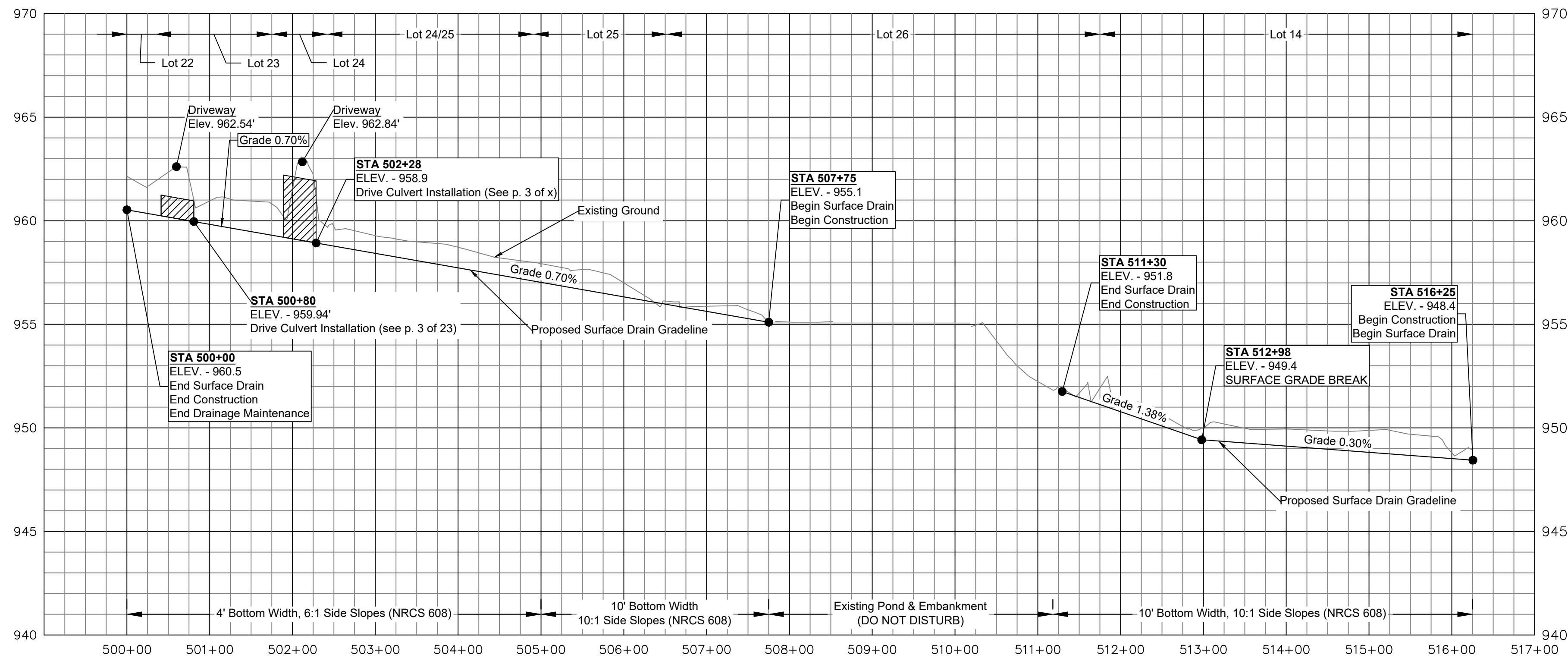
PROFILE - SUBSURFACE DRAIN



LATERAL #1 - SURFACE DRAIN



LATERAL #1 - SURFACE DRAIN

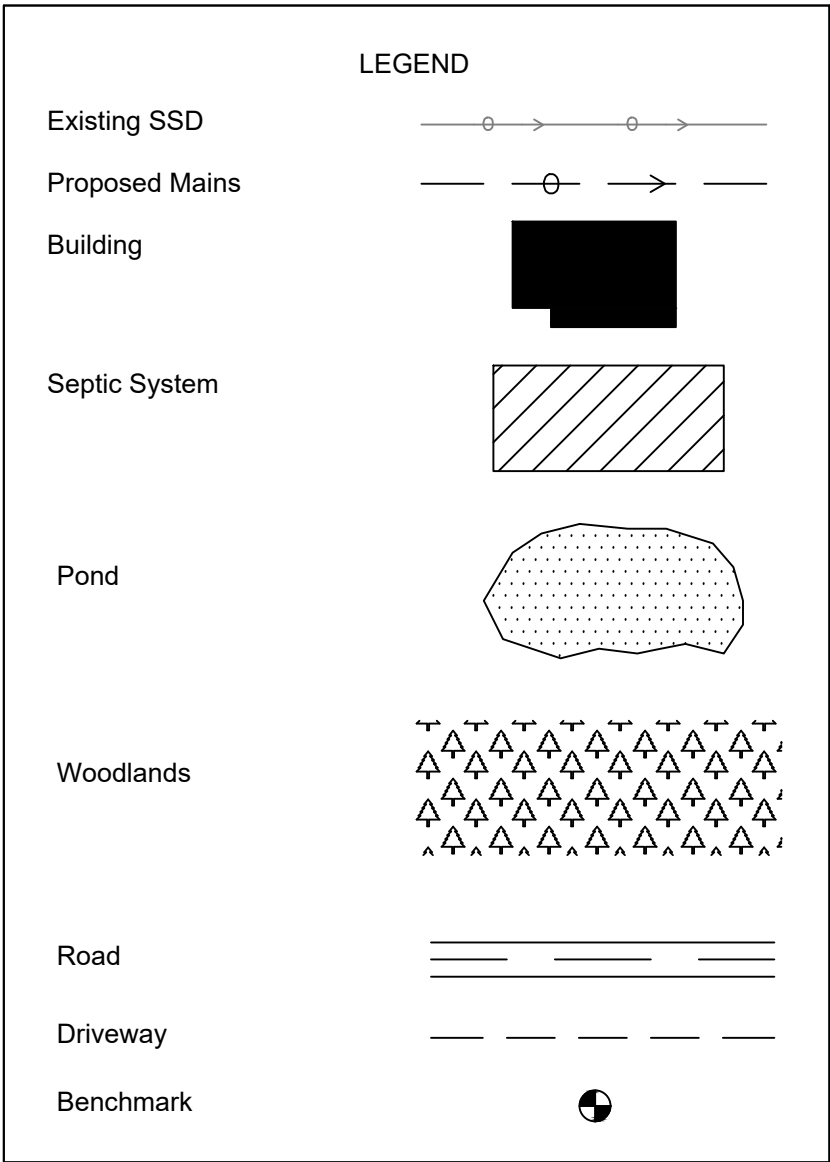


DAVIS #240
DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

13
23

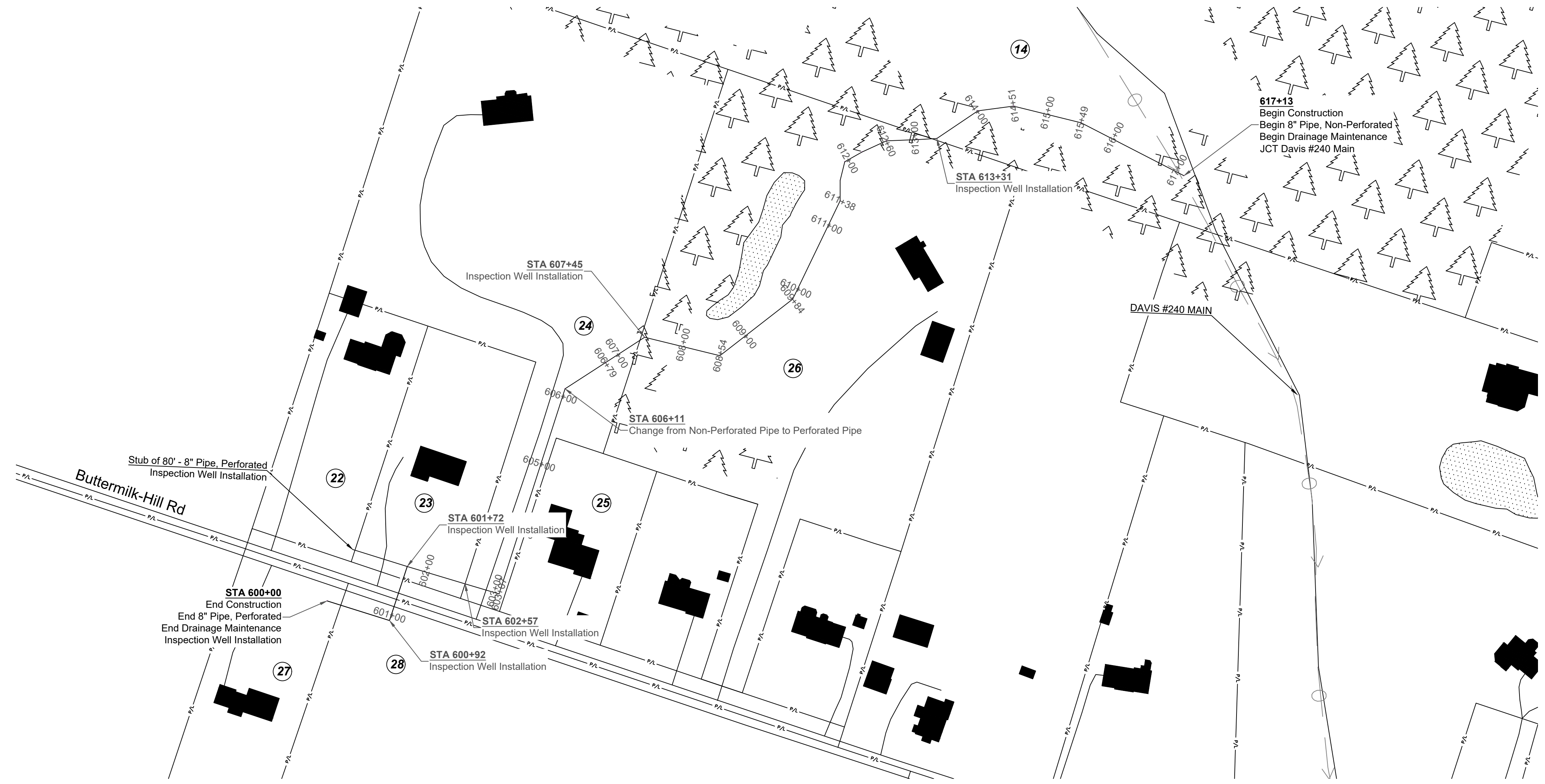
- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 23 shall apply.
 - Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from 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 23:
Typical Surface Drain Cross Section
 - 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.

Lot	Owner	Address	Parcel Number
14	Bruce & Brent Baxter	Troy Road	51920001109000
22	Scott Huffman	1710 Buttermilk Hill Road	51920001038000
23	Amy Whitney	1680 Buttermilk Hill Road	51920001039000
24	David & Emily Fosnaugh	1662 Buttermilk Hill Road	51920001040000
25	Scot & Stephanie Andrews	1630 Buttermilk Hill Road	51920001041000
26	Adam & Jacquelyn Radloff	1590 Buttermilk Hill Road	51920001043000
27	Adam & Darcie Centers	1721 Buttermilk Hill Road	51920001052000
28	Richard & Christina Lehner	Buttermilk Hill Road	51920001099004

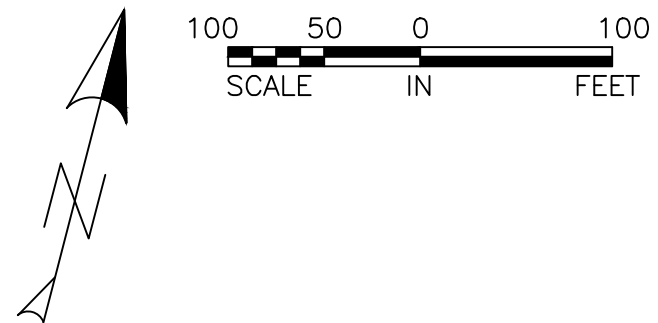
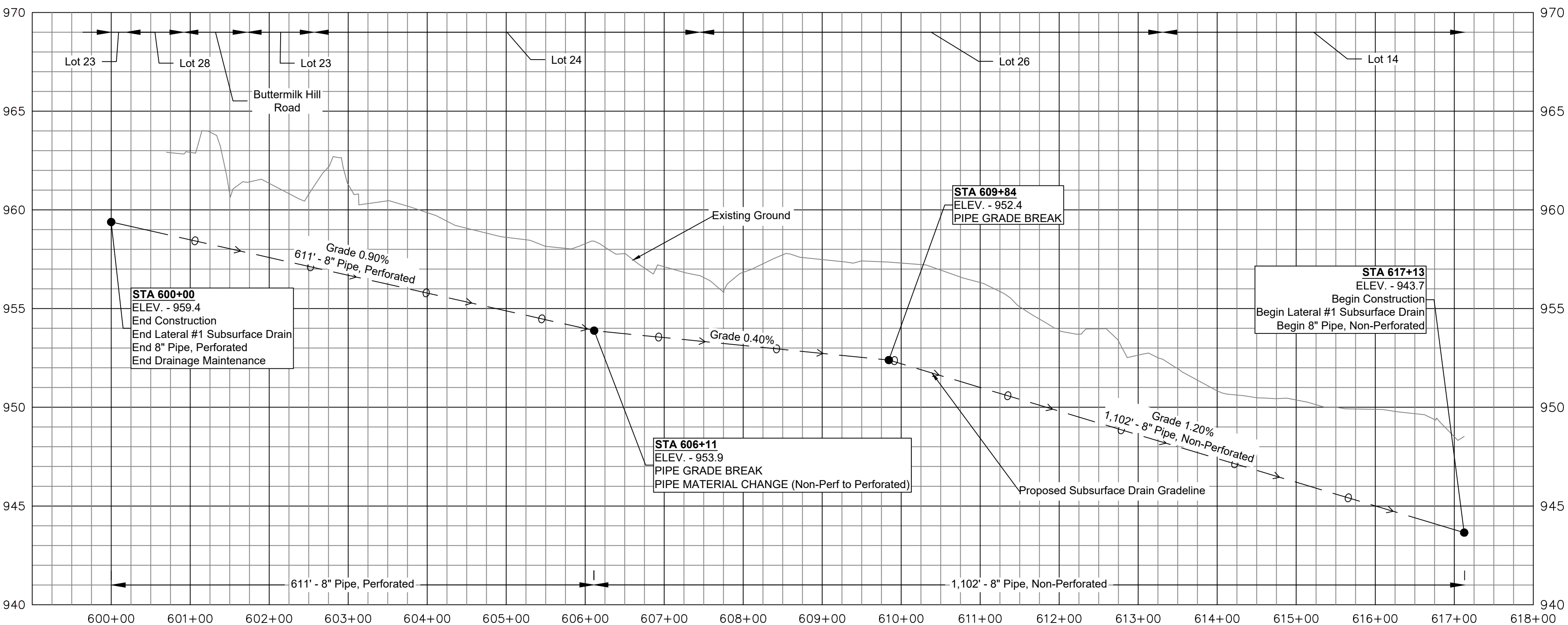


Lateral #1			
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 606	8" Pipe, Perforated	606	Lineal Feet
NRCS 606	8" Pipe, Non-Perforated	1,102	Lineal Feet
NRCS 606	Tile Inspection Well	7	Each
NRCS 608	Surface Drain - Swale	1,270	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Gravel Drive	40	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Paved Road	40	Lineal Feet
ODOT 611	12" Pipe (707.33), Type A Installation, Gravel Drive	40	Lineal Feet
ODOT 611	36" Pipe (707.33), Type A Installation, Gravel Drive	40	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	7,000	Square Yards

LATERAL #1 - SUBSURFACE DRAIN



LATERAL #1 - SUBSURFACE DRAIN

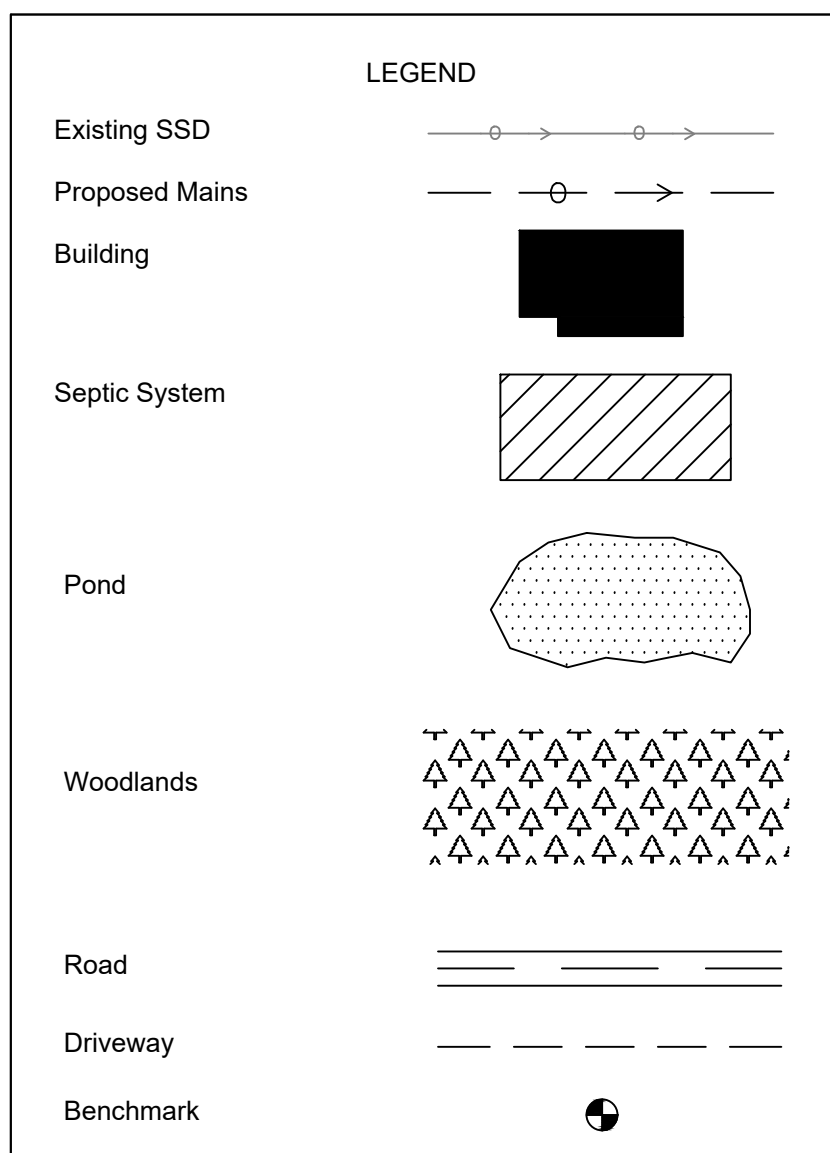


DAVIS #240
DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

14
23

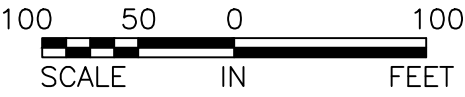
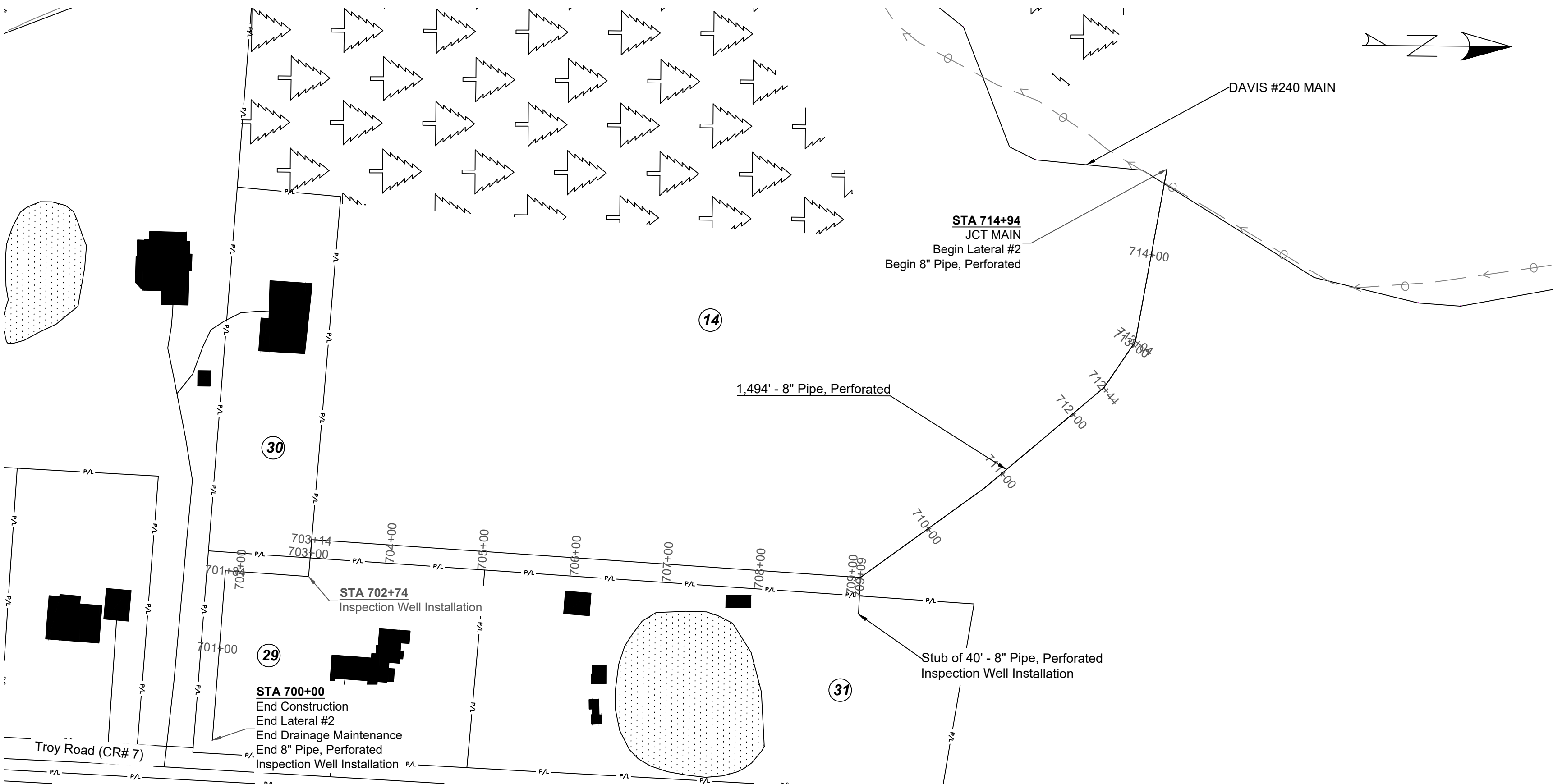
- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 23 shall apply.
 - Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from 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 23:
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.

Lot	Owner	Address	Parcel Number
14	Bruce & Brent Baxter	Troy Road	51920001109000
22	Scott Huffman	1710 Buttermilk Hill Road	51920001038000
23	Amy Whitney	1680 Buttermilk Hill Road	51920001039000
24	David & Emily Fosnaugh	1662 Buttermilk Hill Road	51920001040000
25	Scot & Stephanie Andrews	1630 Buttermilk Hill Road	51920001041000
26	Adam & Jacquelyn Radloff	1590 Buttermilk Hill Road	51920001043000
27	Adam & Darcie Centers	1721 Buttermilk Hill Road	51920001052000
28	Richard & Christina Lehner	Buttermilk Hill Road	51920001099004



Lateral #1			
SPECIAL	Utility Relocaton	LUMP	
NRCS 326	Clearing & Snagging	LUMP	
NRCS 606	8" Pipe, Perforated	606	Lineal Feet
NRCS 606	8" Pipe, Non-Perforated	1,102	Lineal Feet
NRCS 606	Tile Inspection Well	7	Each
NRCS 608	Surface Drain - Swale	1,270	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Gravel Drive	40	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Paved Road	40	Lineal Feet
ODOT 611	12" Pipe (707.33), Type A Installation, Gravel Drive	40	Lineal Feet
ODOT 611	36" Pipe (707.33), Type A Installation, Gravel Drive	40	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	7,000	Square Yards

PLAN VIEW - LATERAL #2



DAVIS #240
DRAINAGE IMPROVEMENT PROJECT
ENGINEERING DRAWINGS

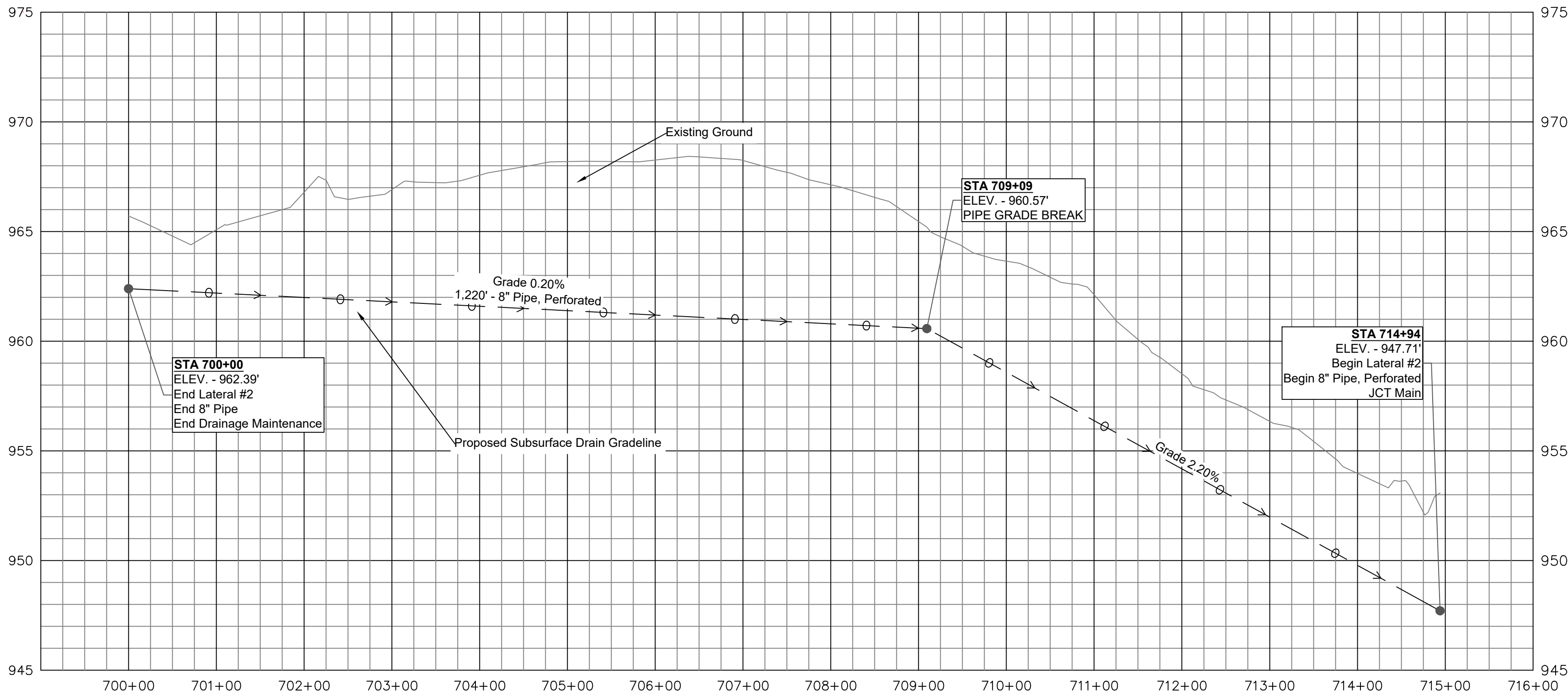
15
23

Lot	Owner	Address	Parcel Number
14	Bruce & Brent Baxter	Troy Road	51920001109000
29	Sean & Brenda Smith	3033 Troy Road	51920001107000
30	Victor & Kathleen Koehler	Troy Road	51920001109001
31	Sean & Brenda Smith	Troy Road	51920001108000

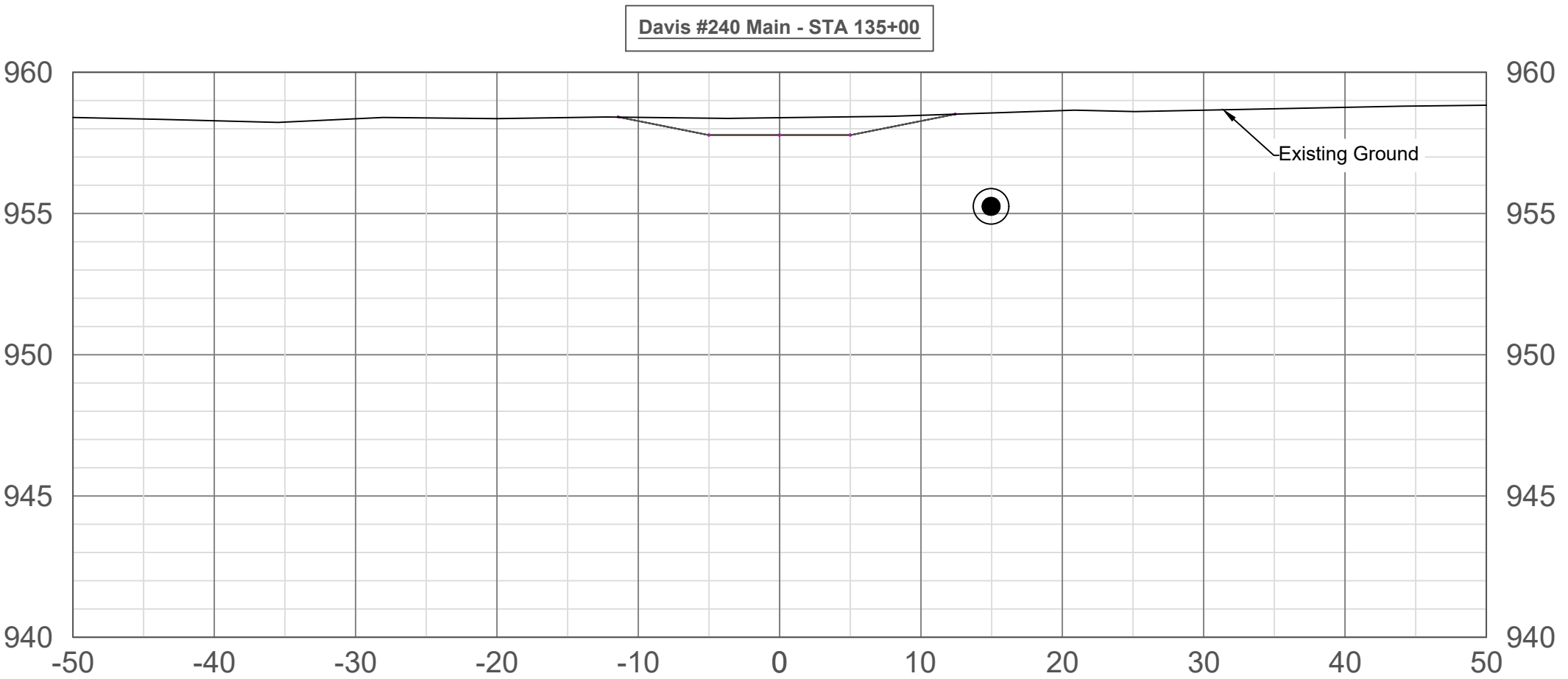
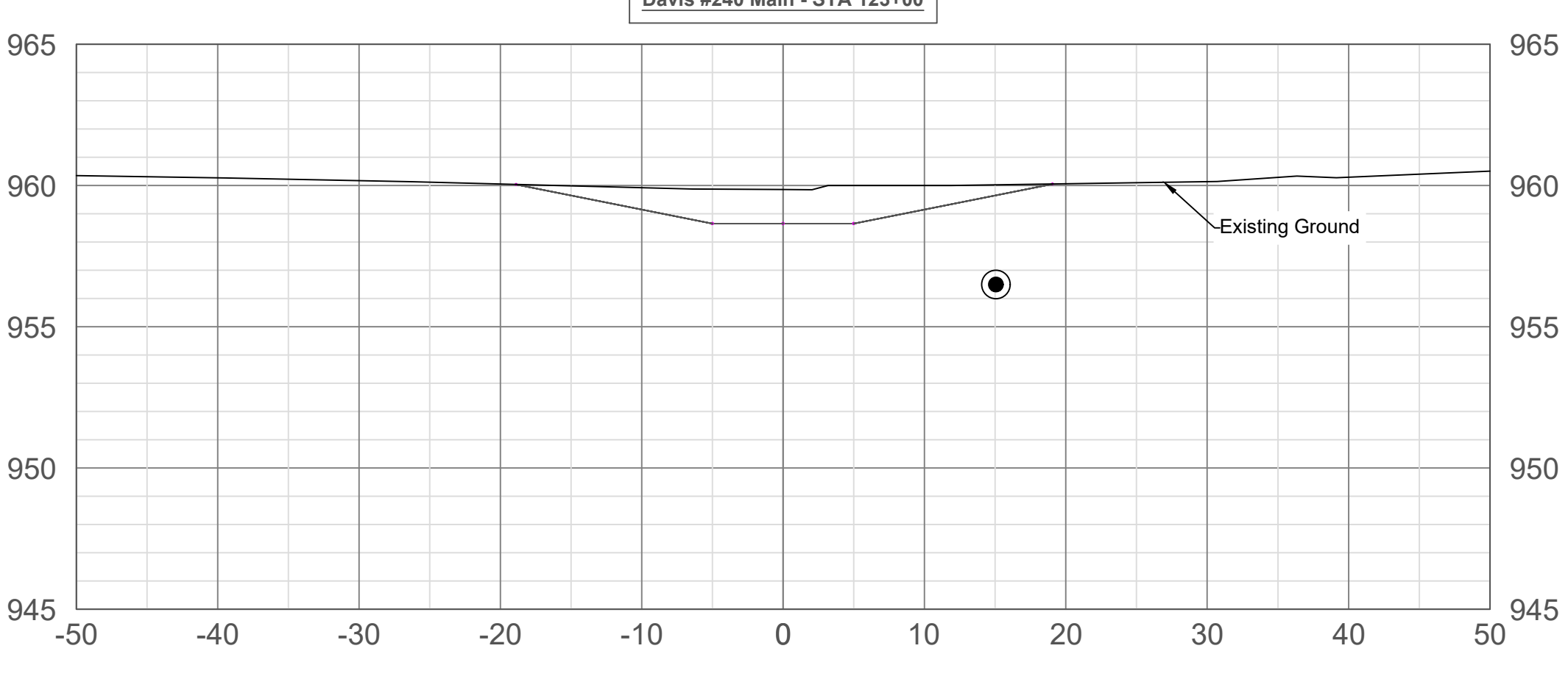
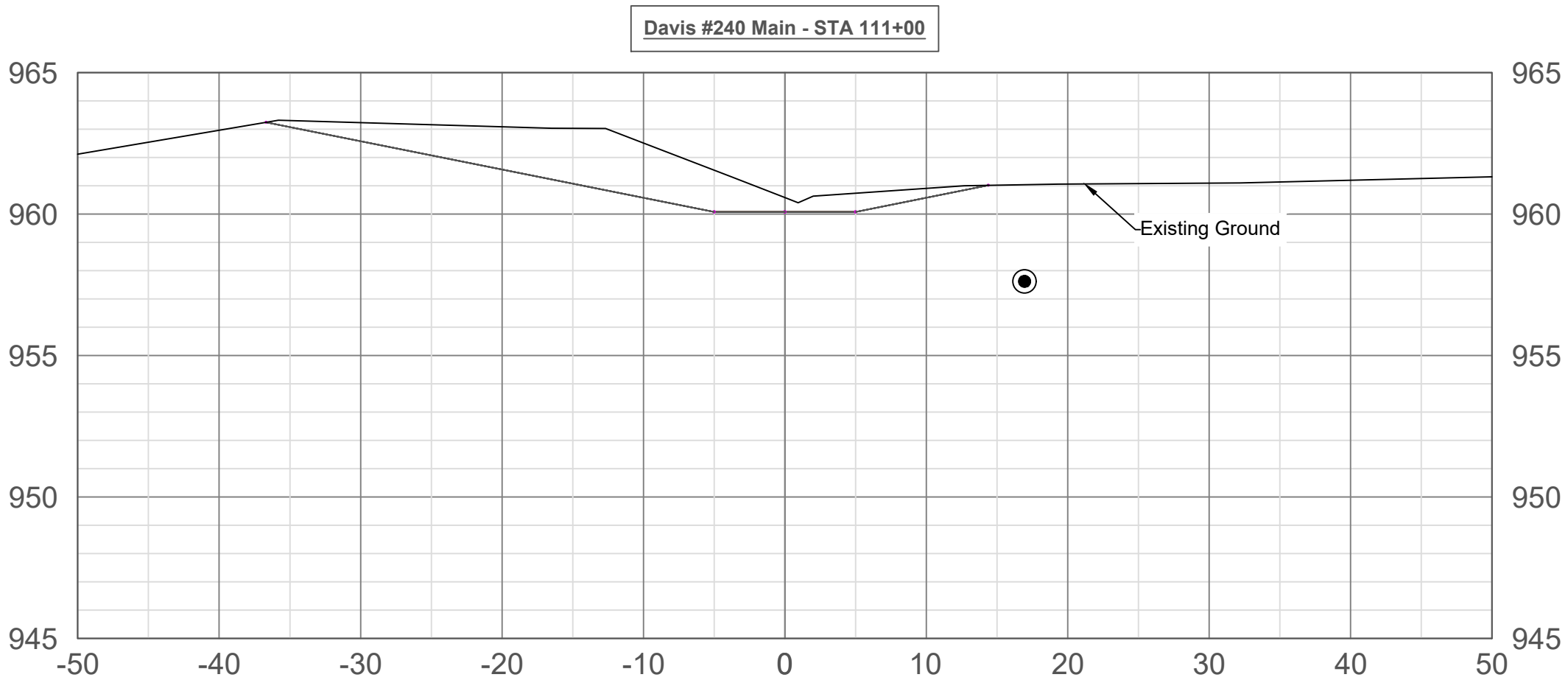
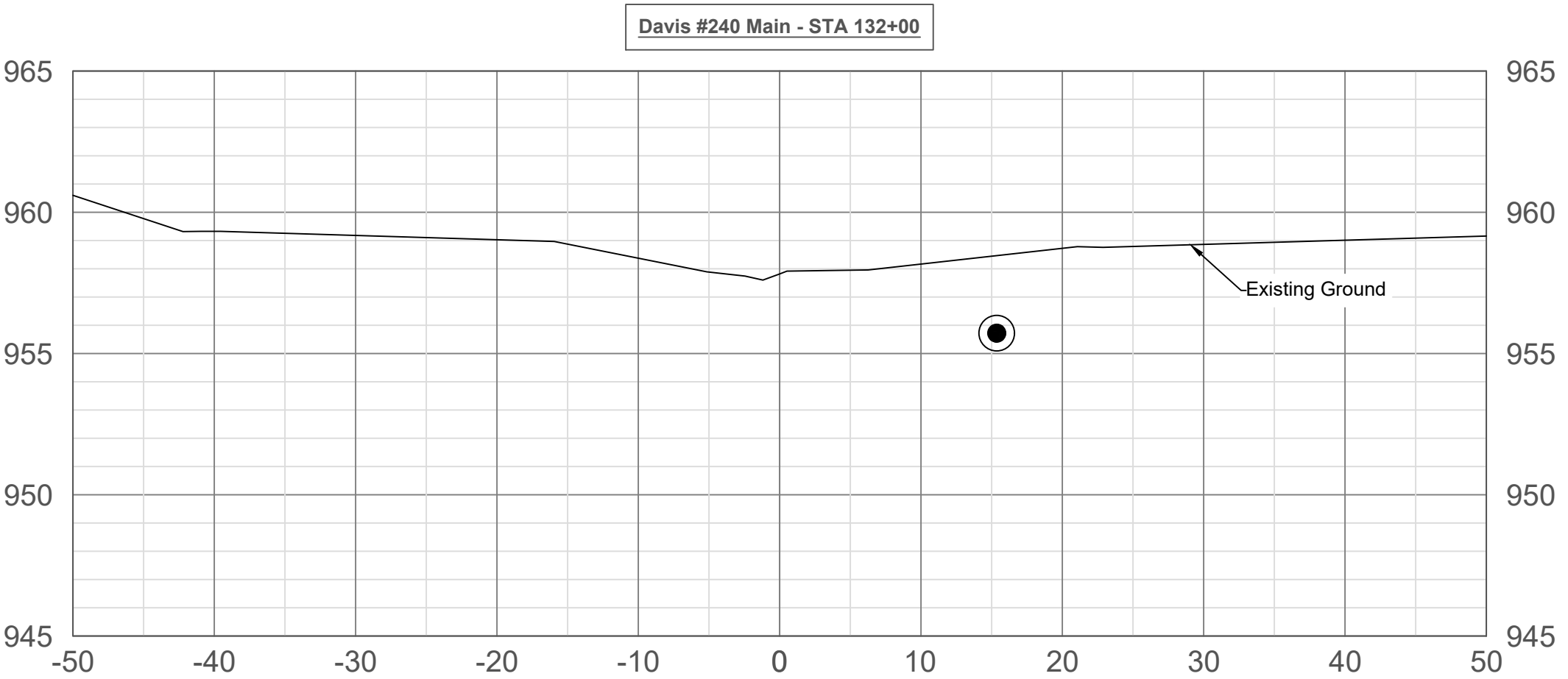
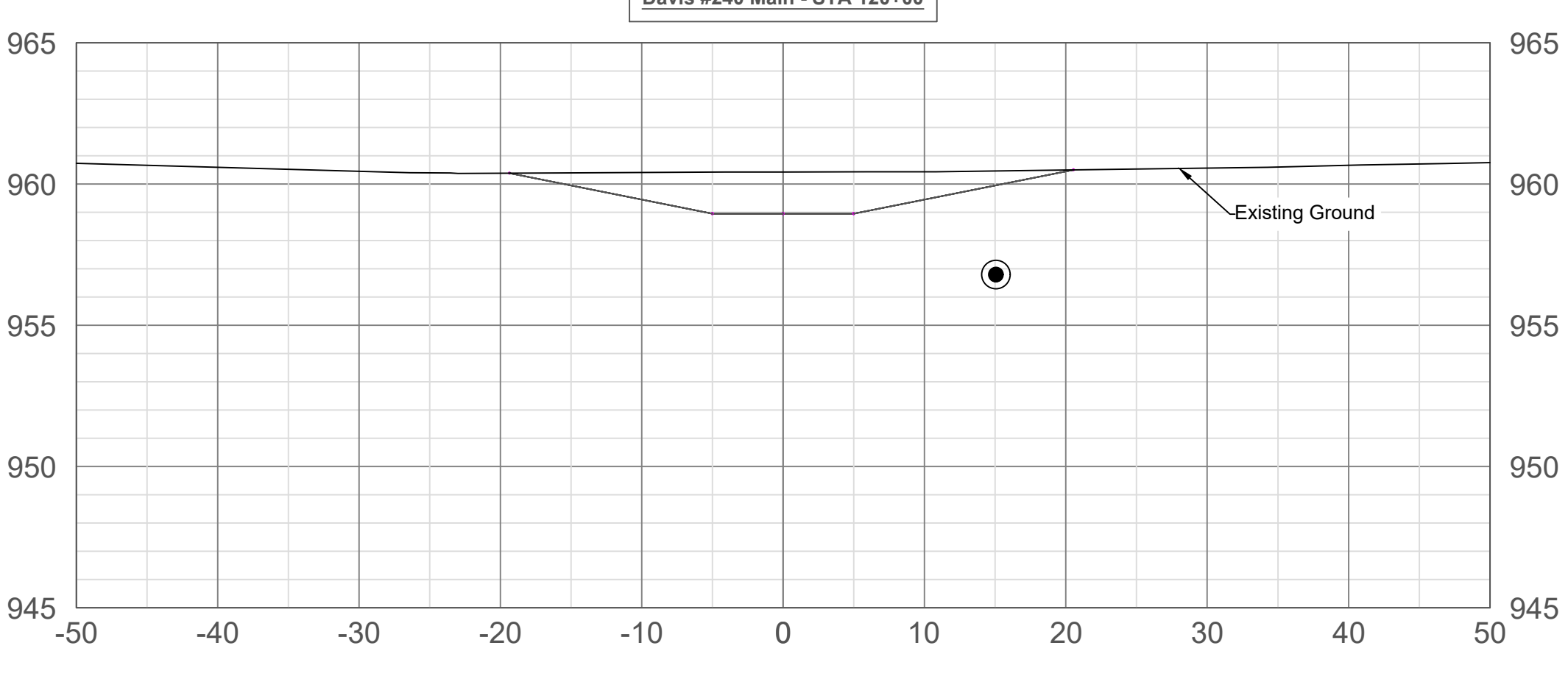
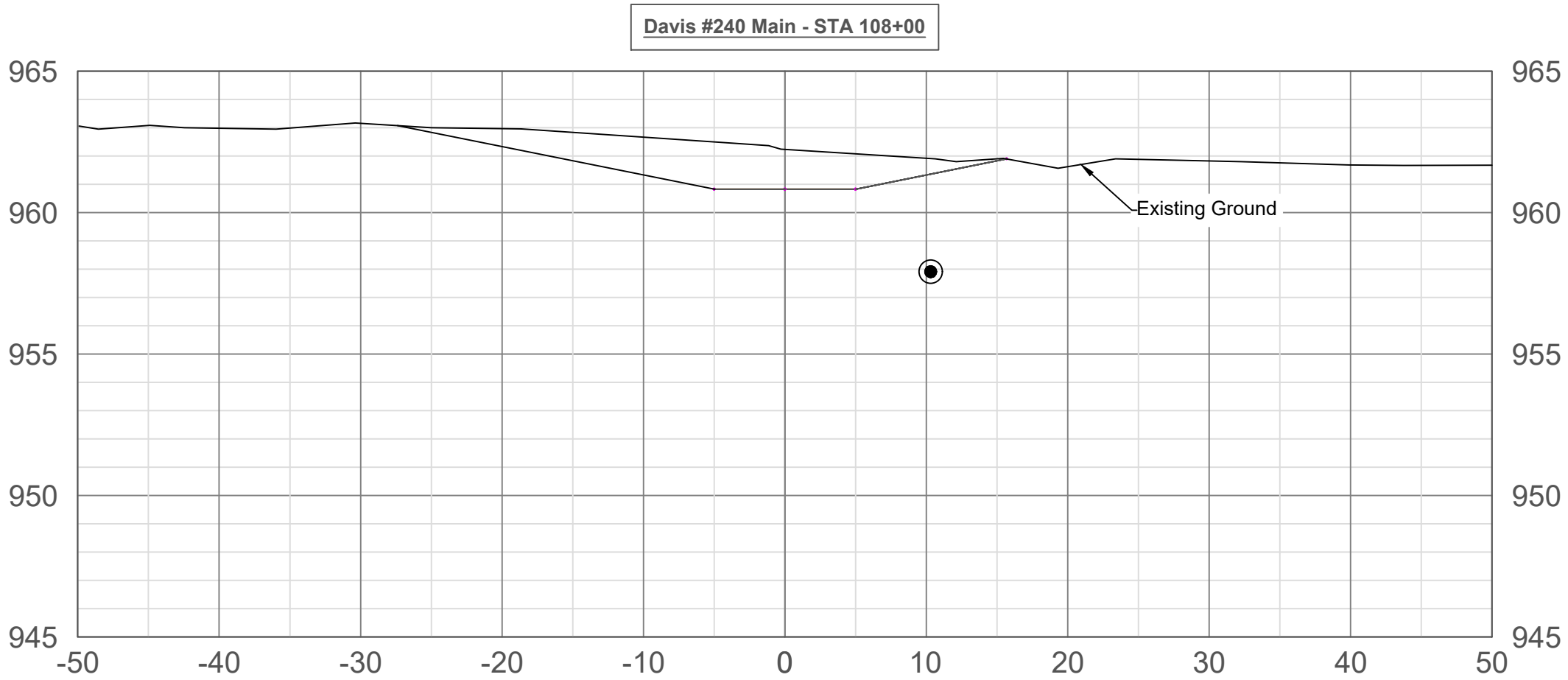
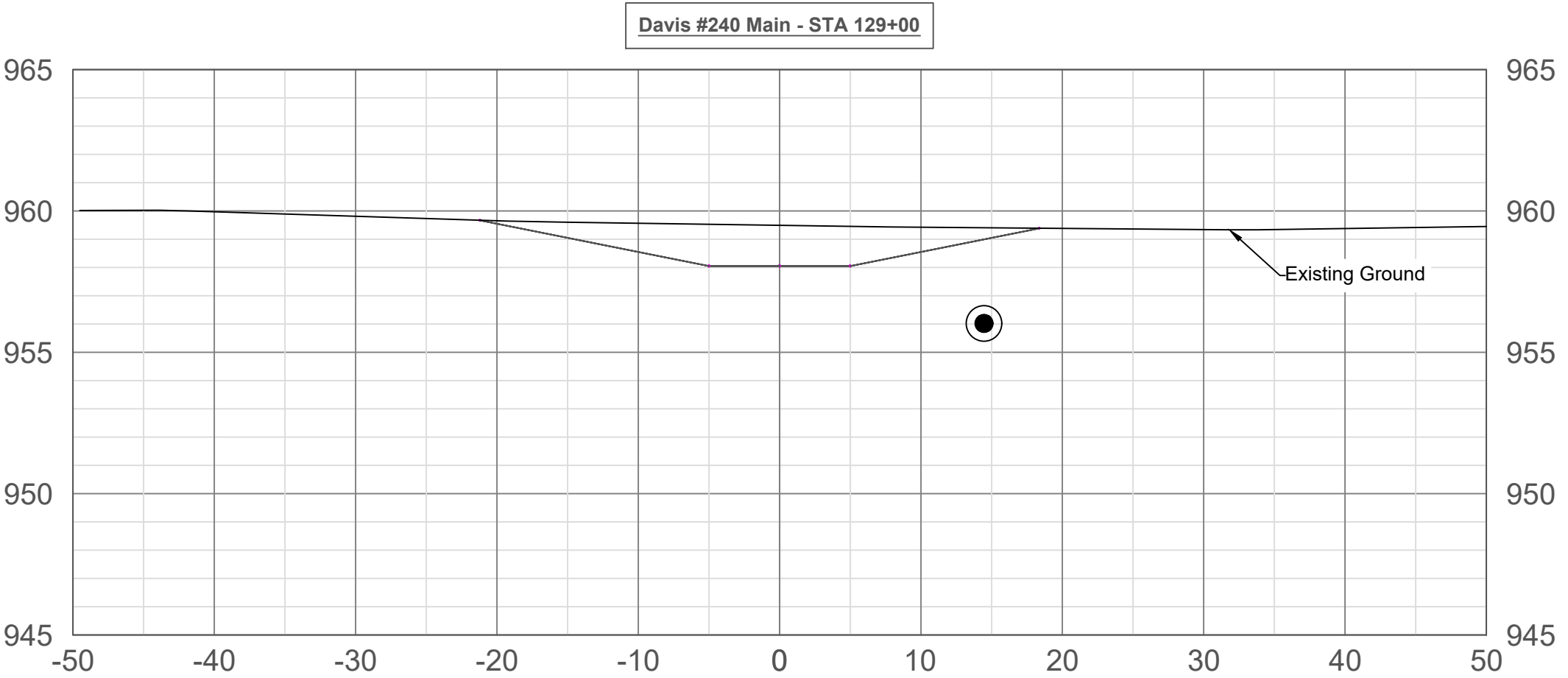
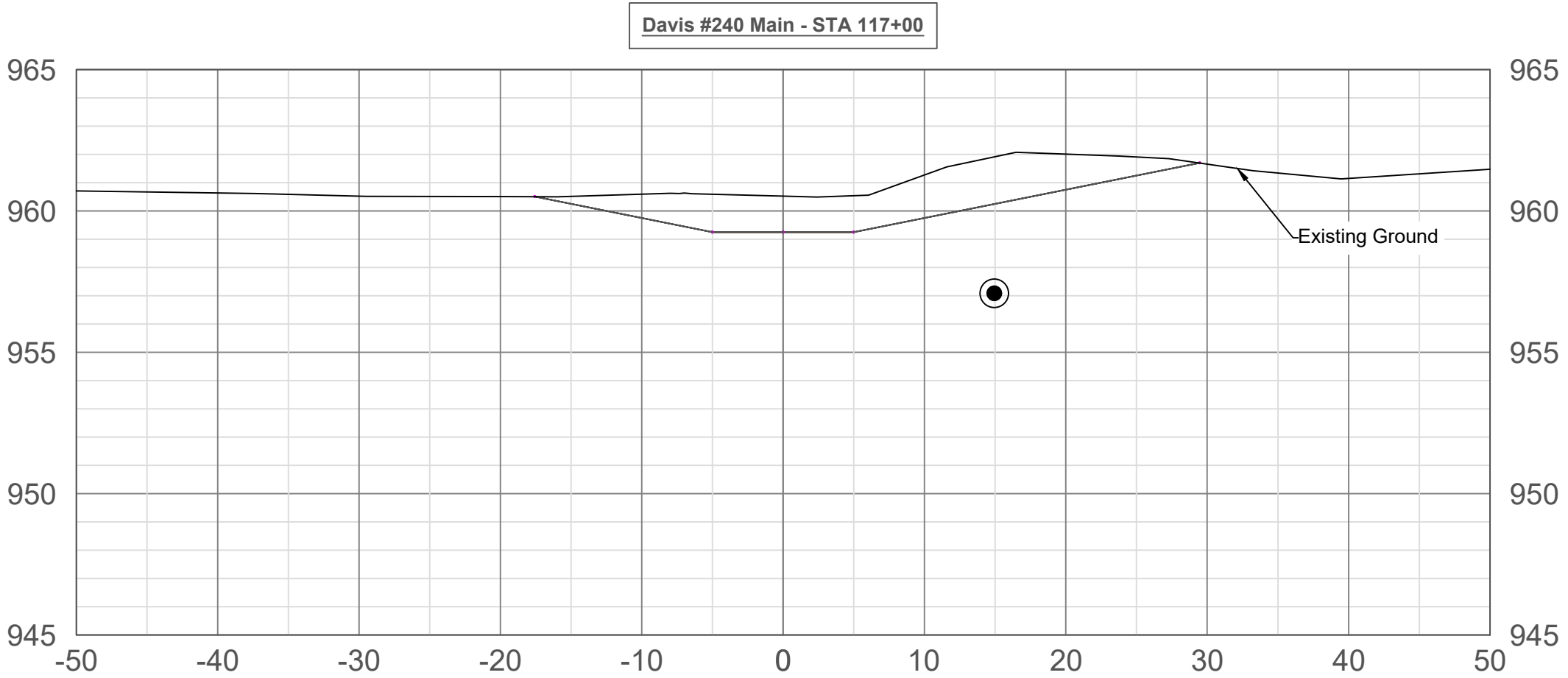
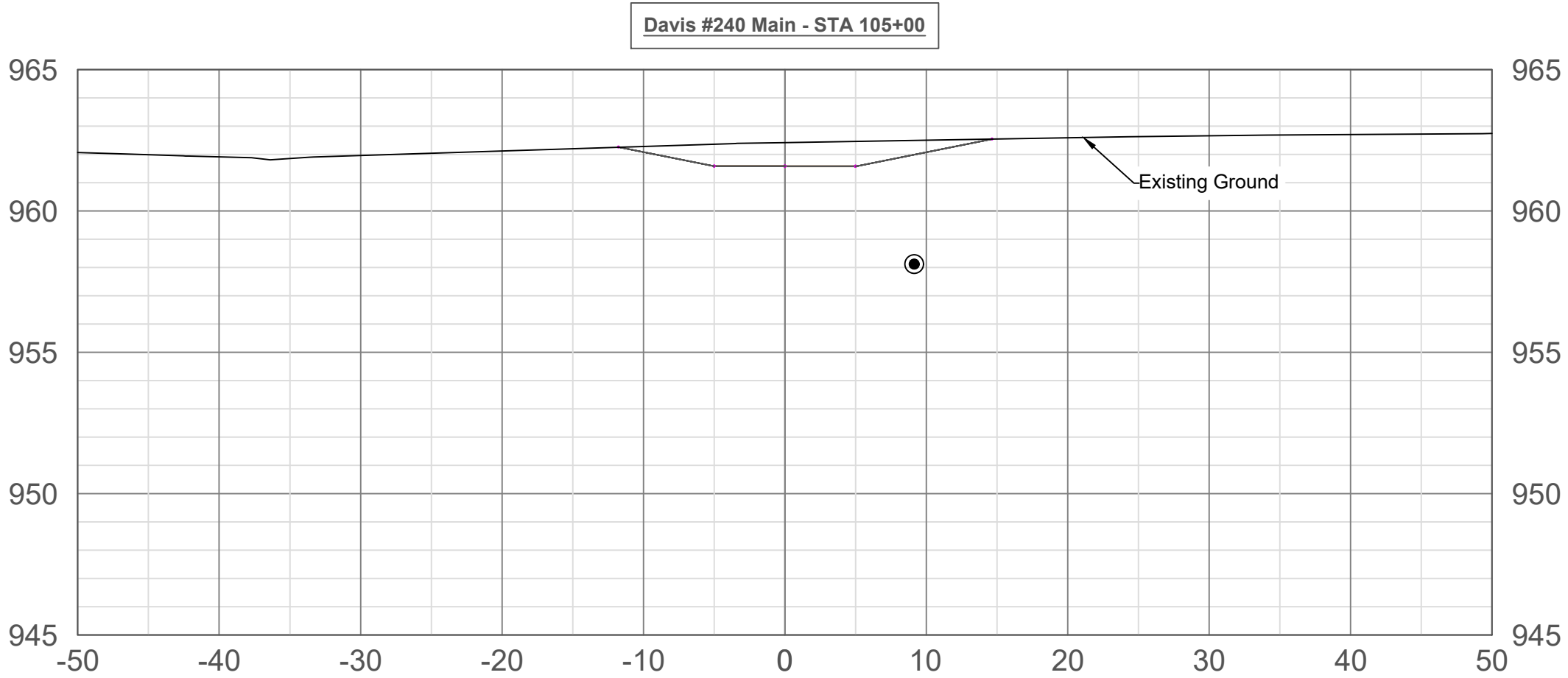
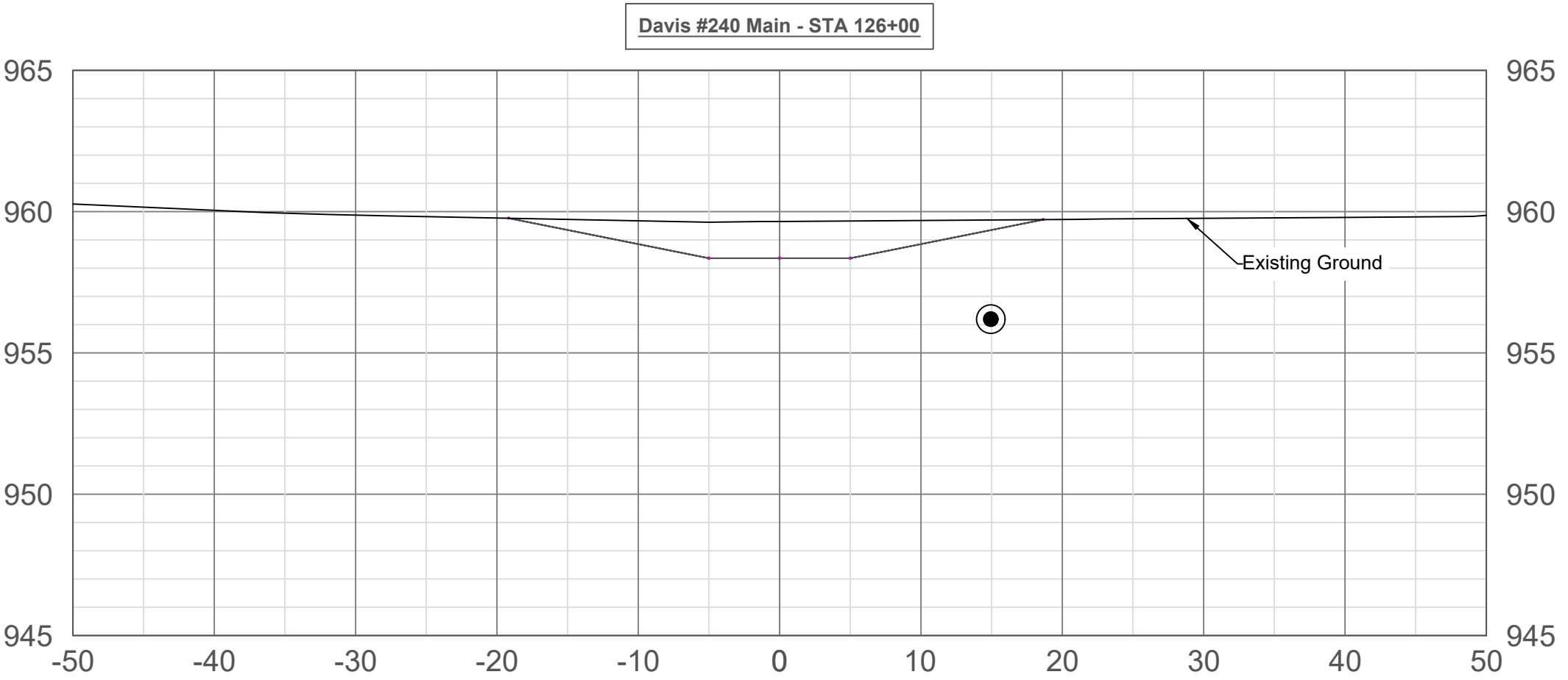
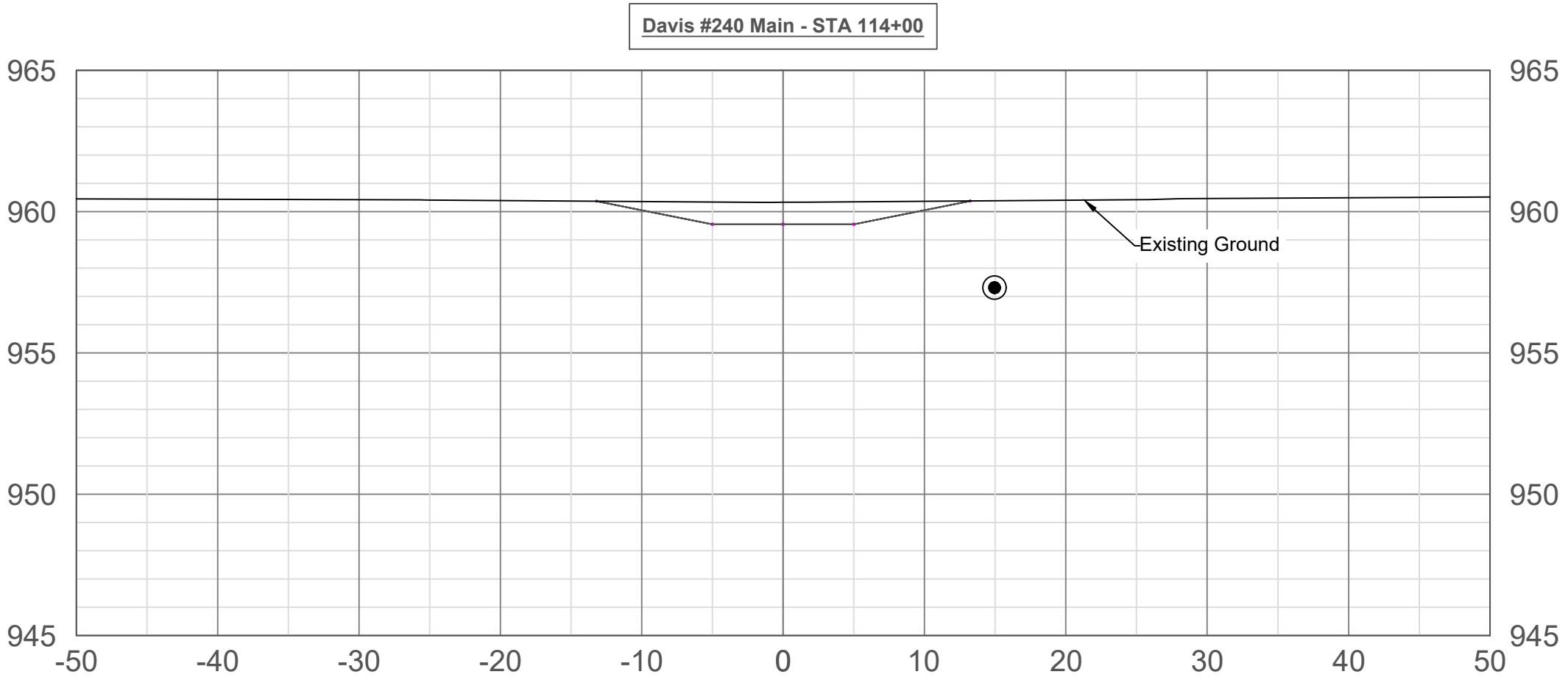
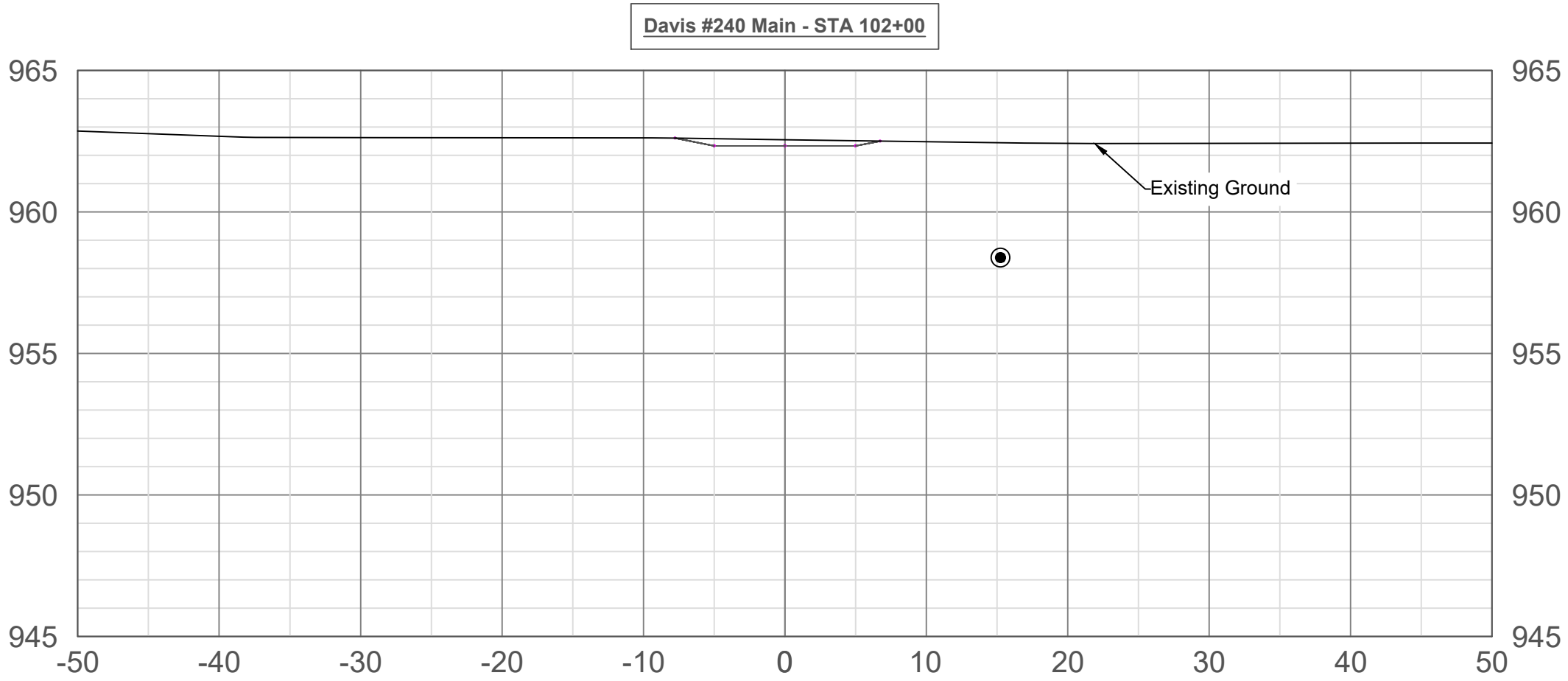
Lateral #2			
NRCS 606	8" Pipe, Perforated	1,494	Lineal Feet
NRCS 606	Tile Inspection Well	4	Each
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	900	Square Yards

- CONSTRUCTION NOTES**
- All General Construction Notes on P. 2 of 23 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 23:
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.

PROFILE - LATERAL #2

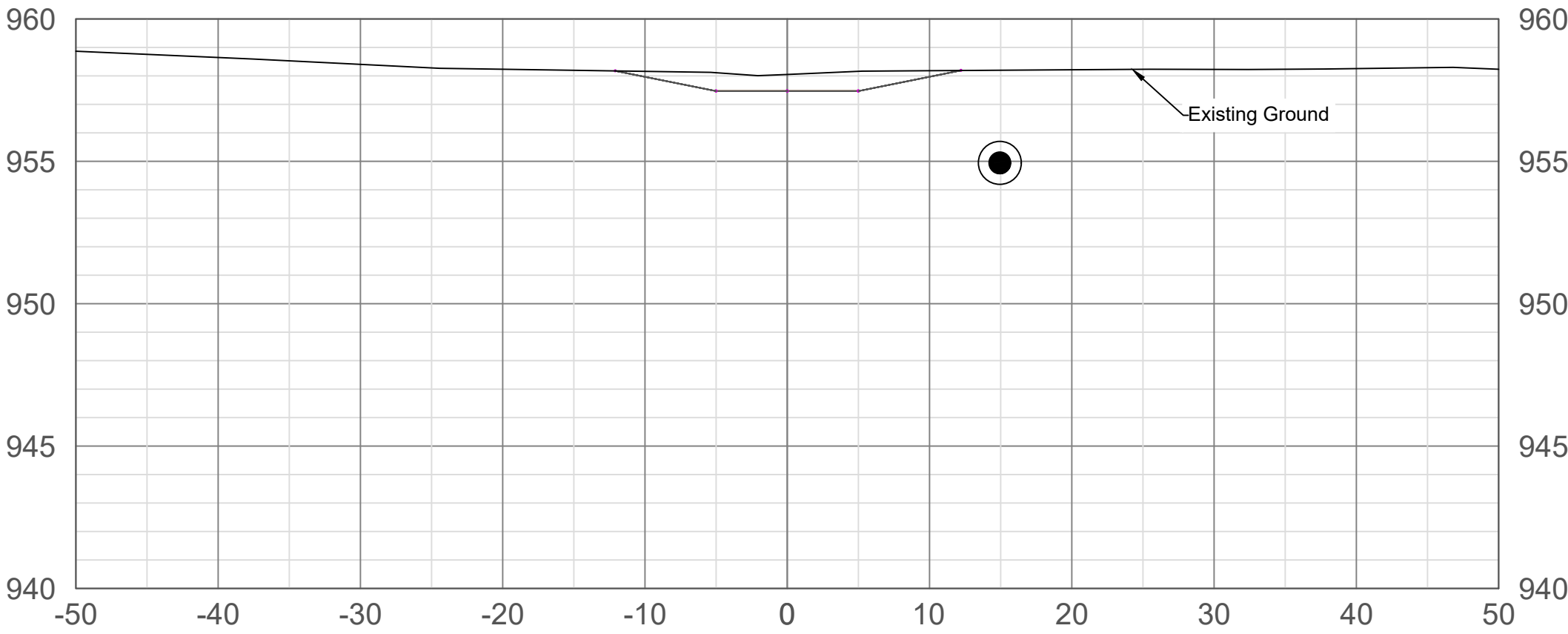


CROSS-SECTIONS

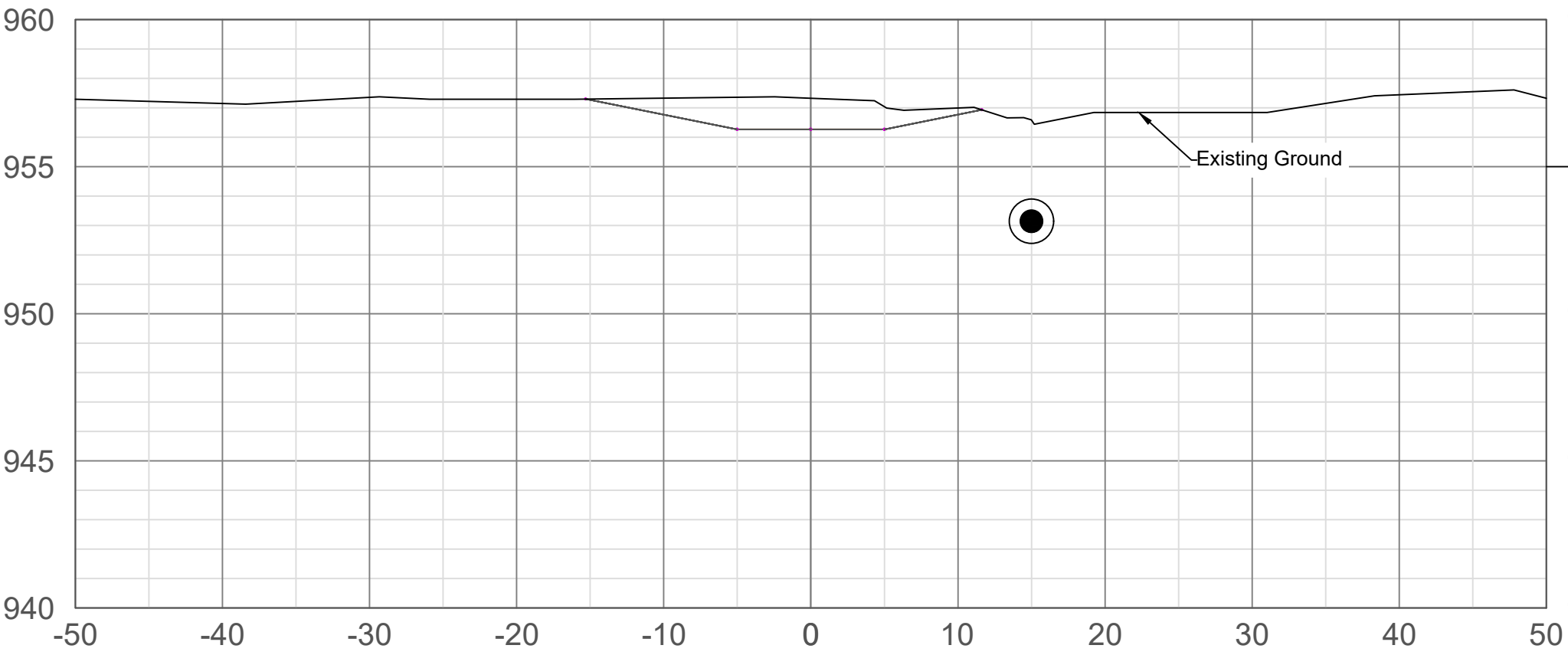


CROSS-SECTIONS

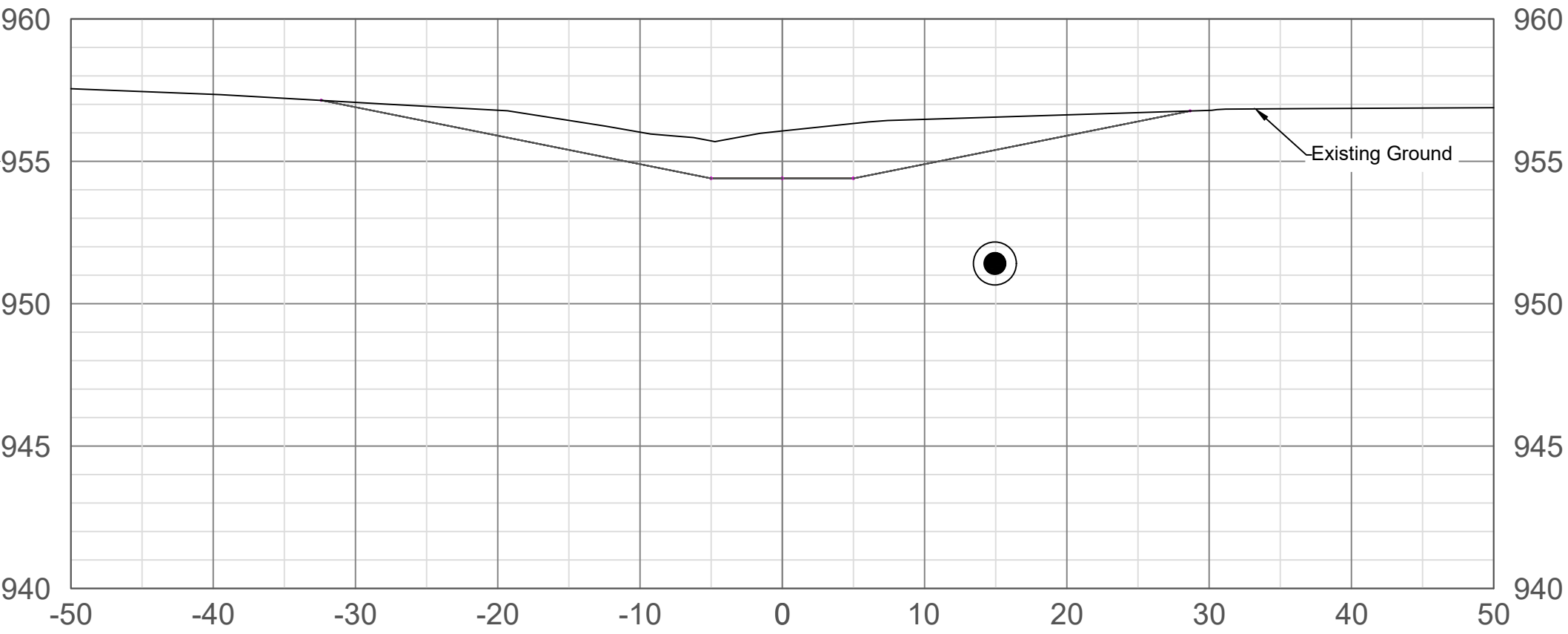
Davis #240 Main - STA 138+00



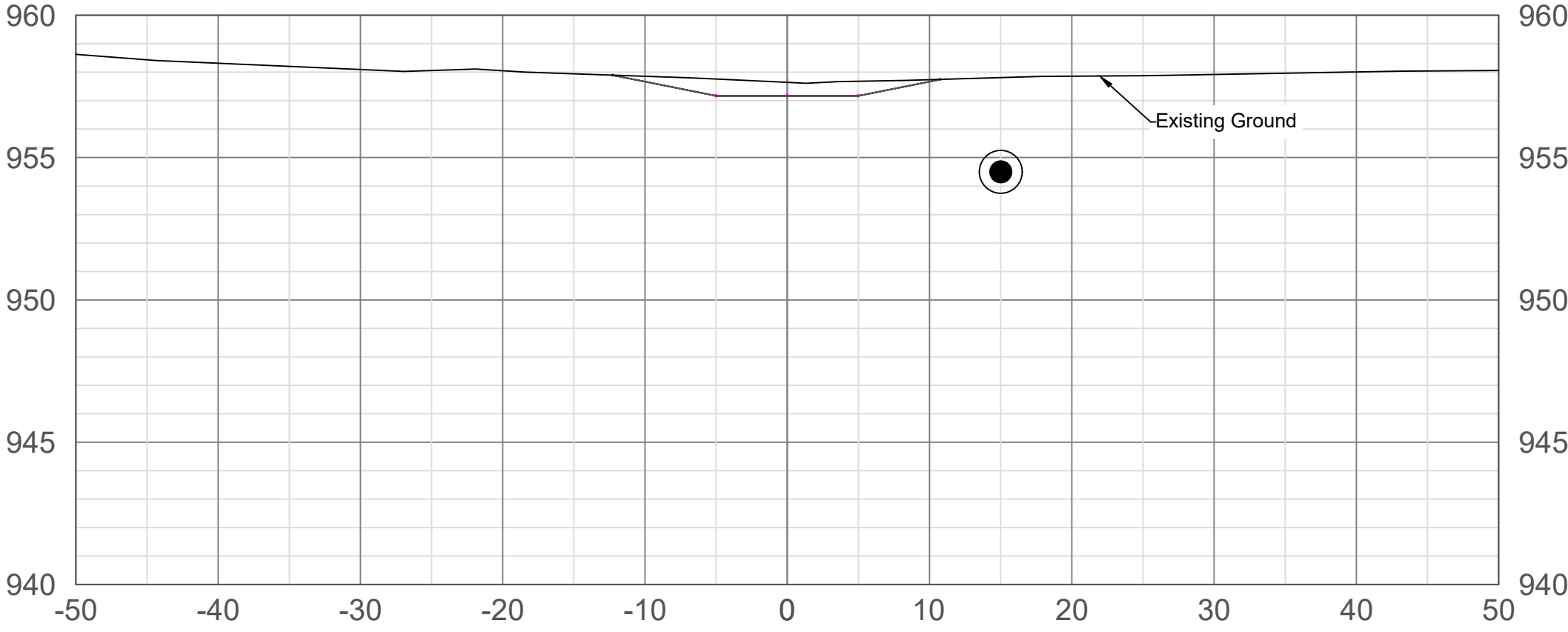
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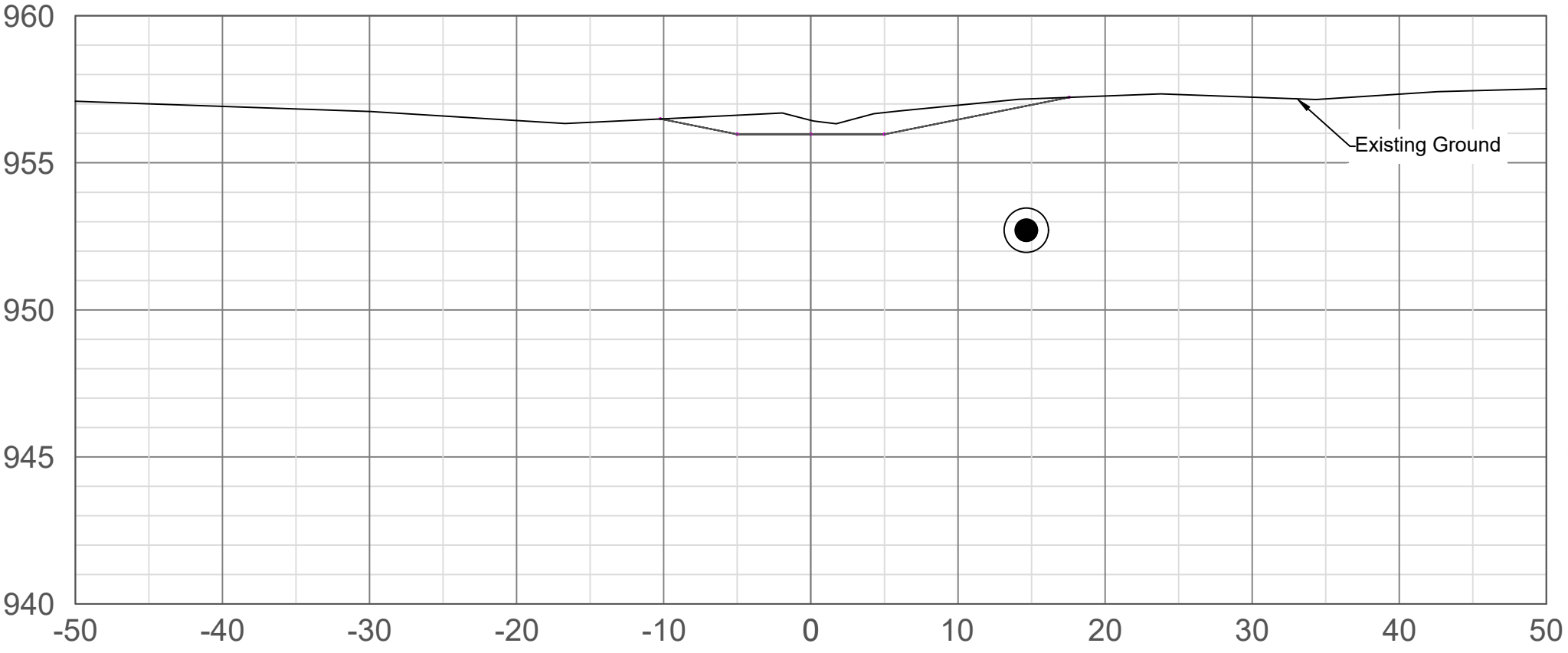
Davis #240 Main - STA 162+00



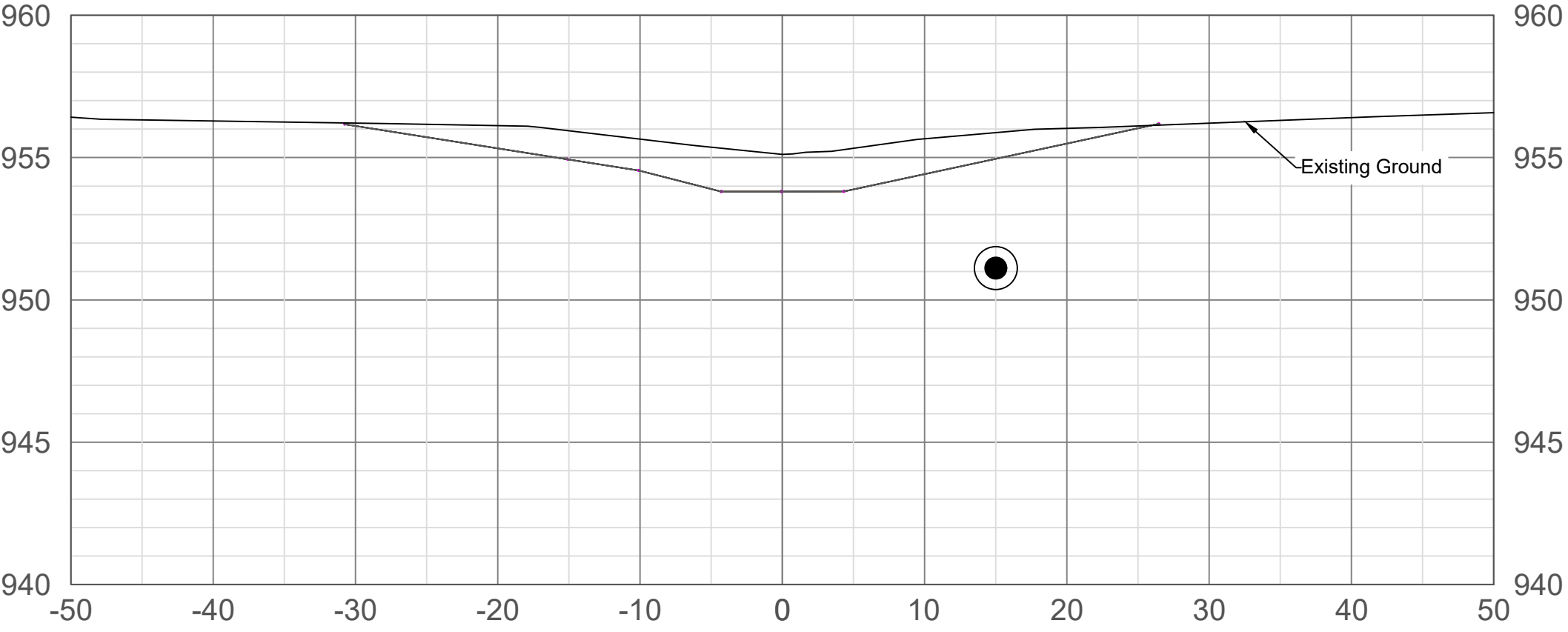
Davis #240 Main - STA 141+00



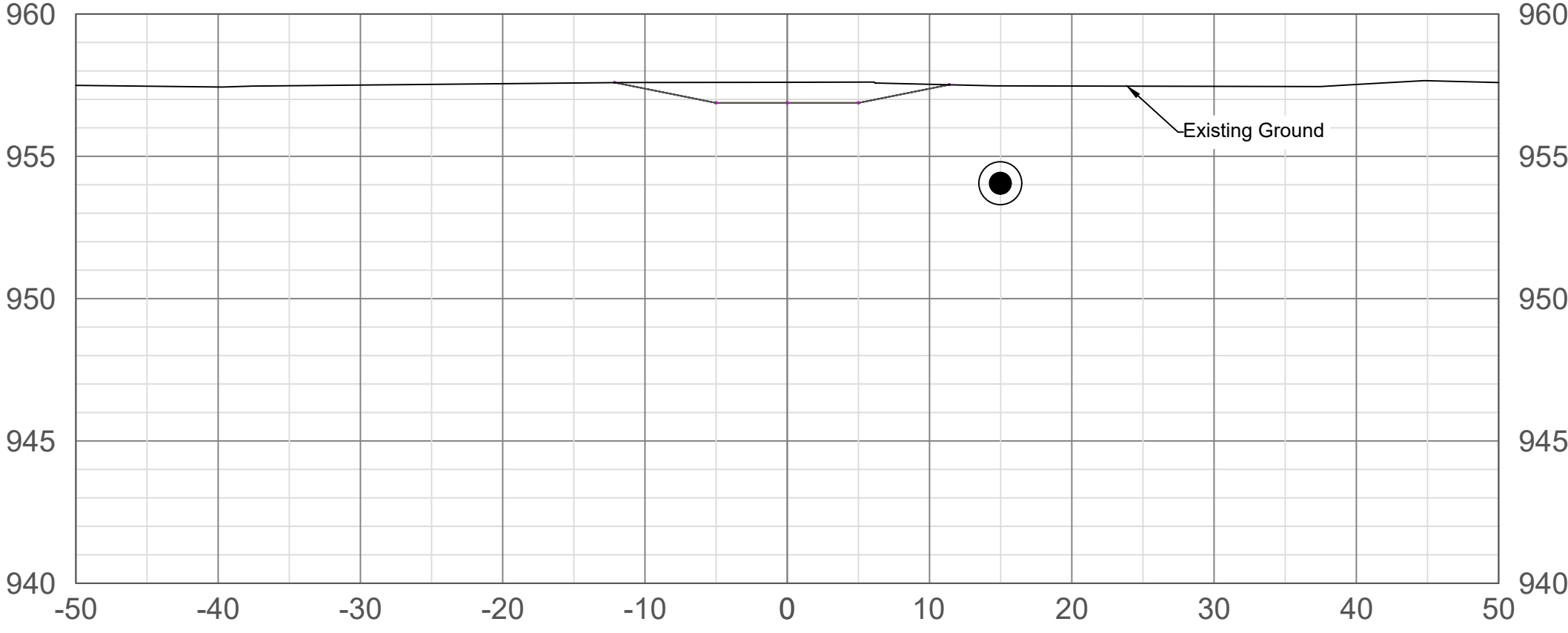
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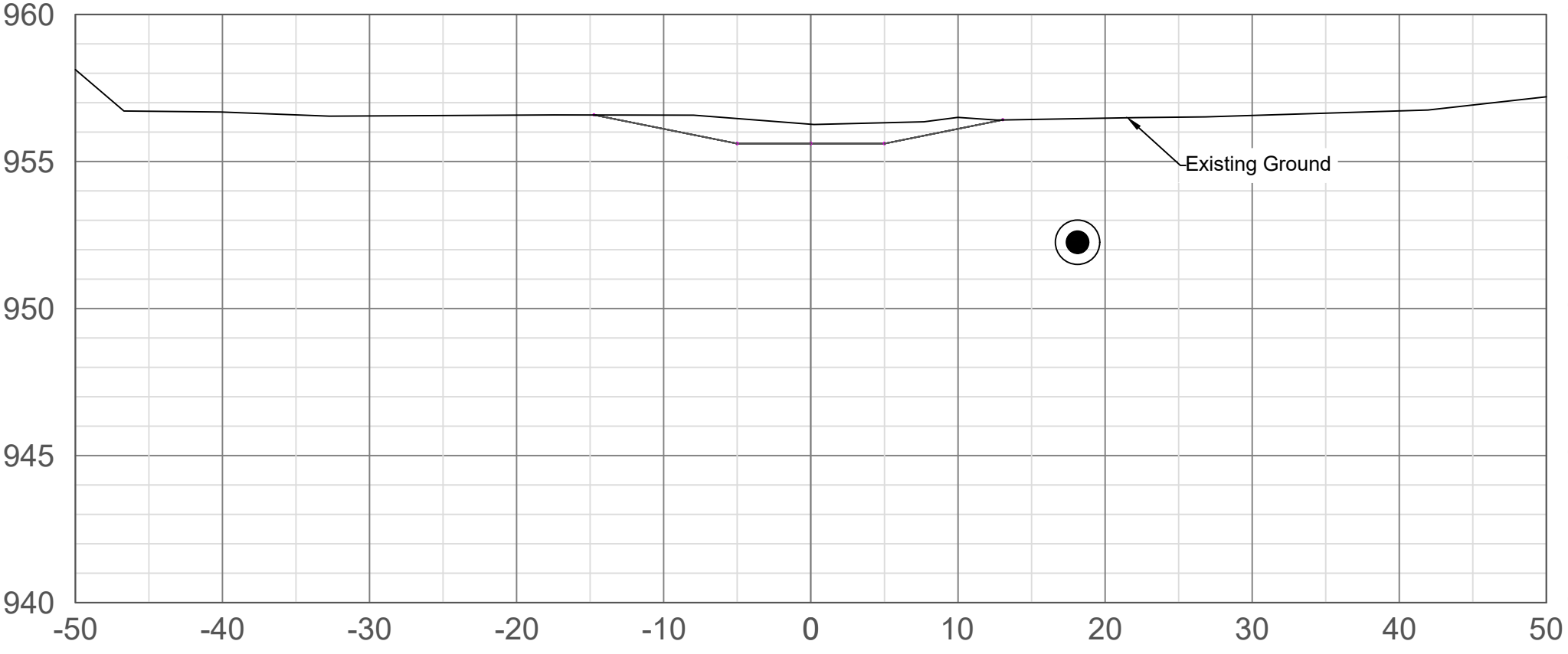
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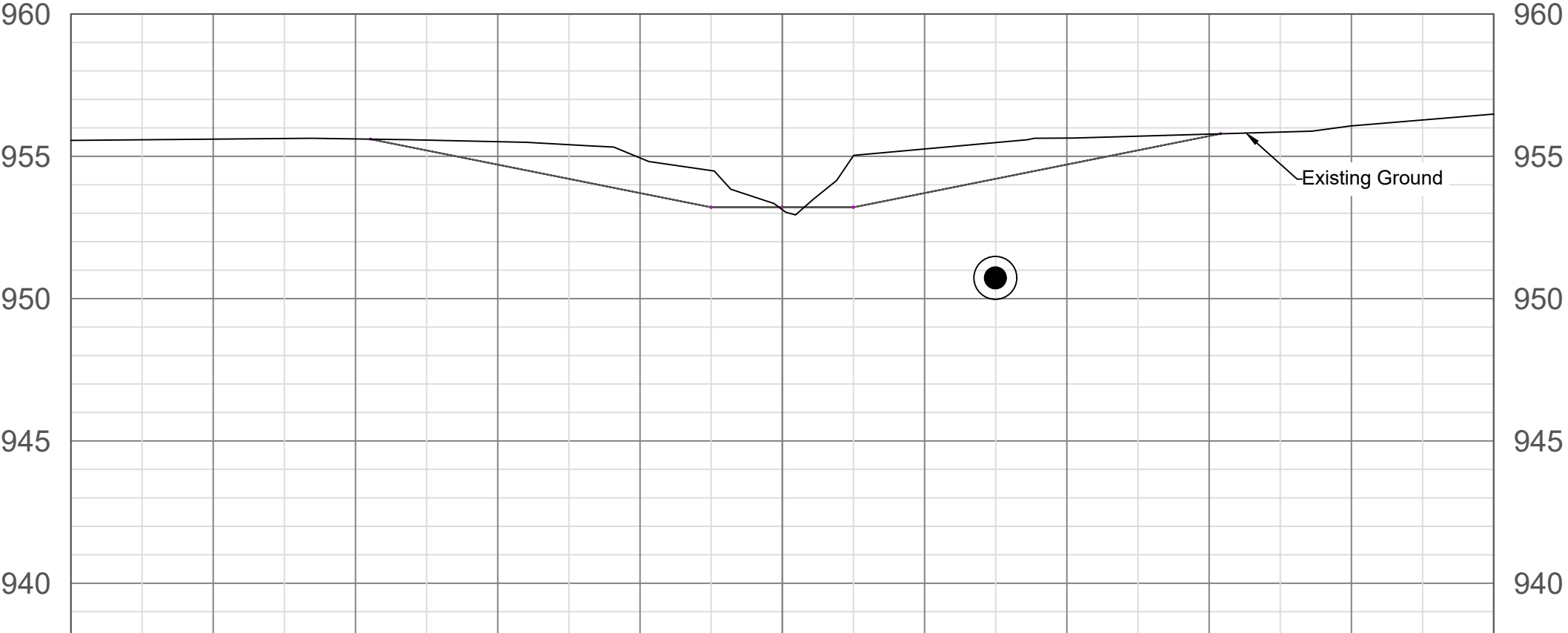
Davis #240 Main - STA 144+00



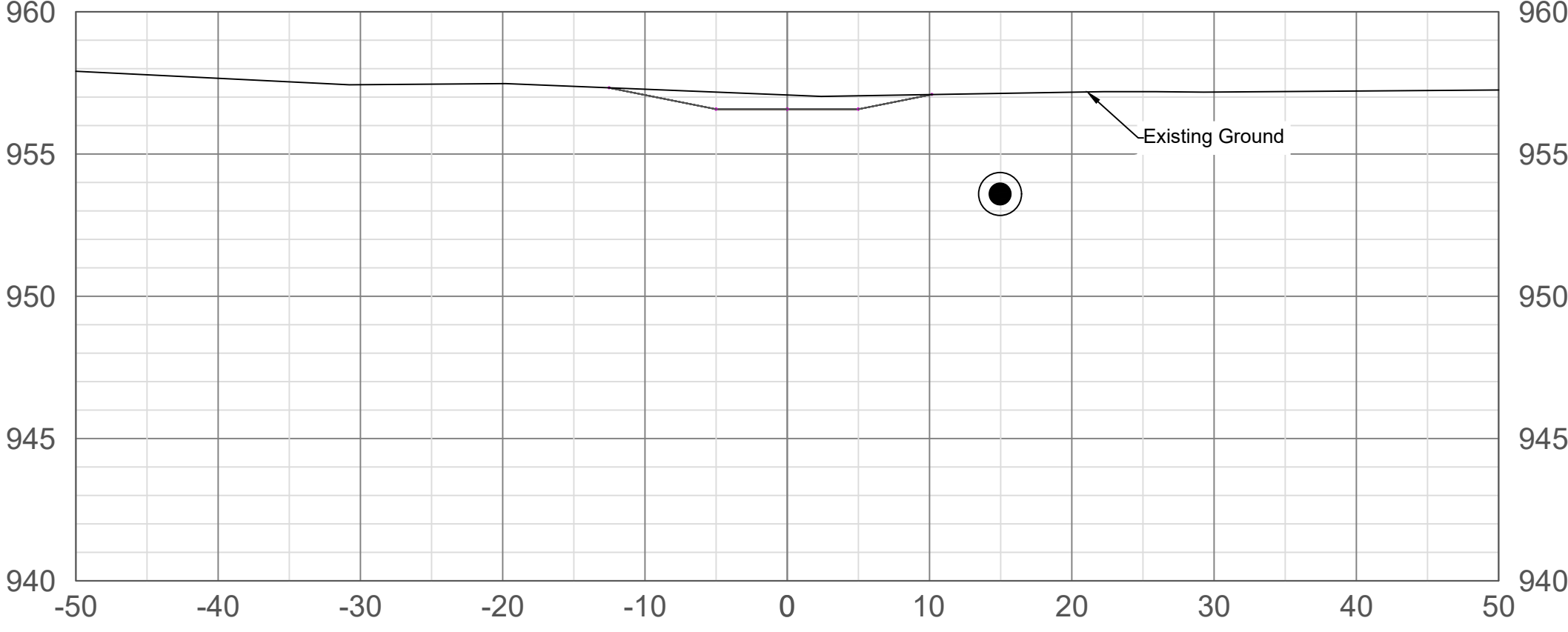
Davis #240 Main - STA 156+00



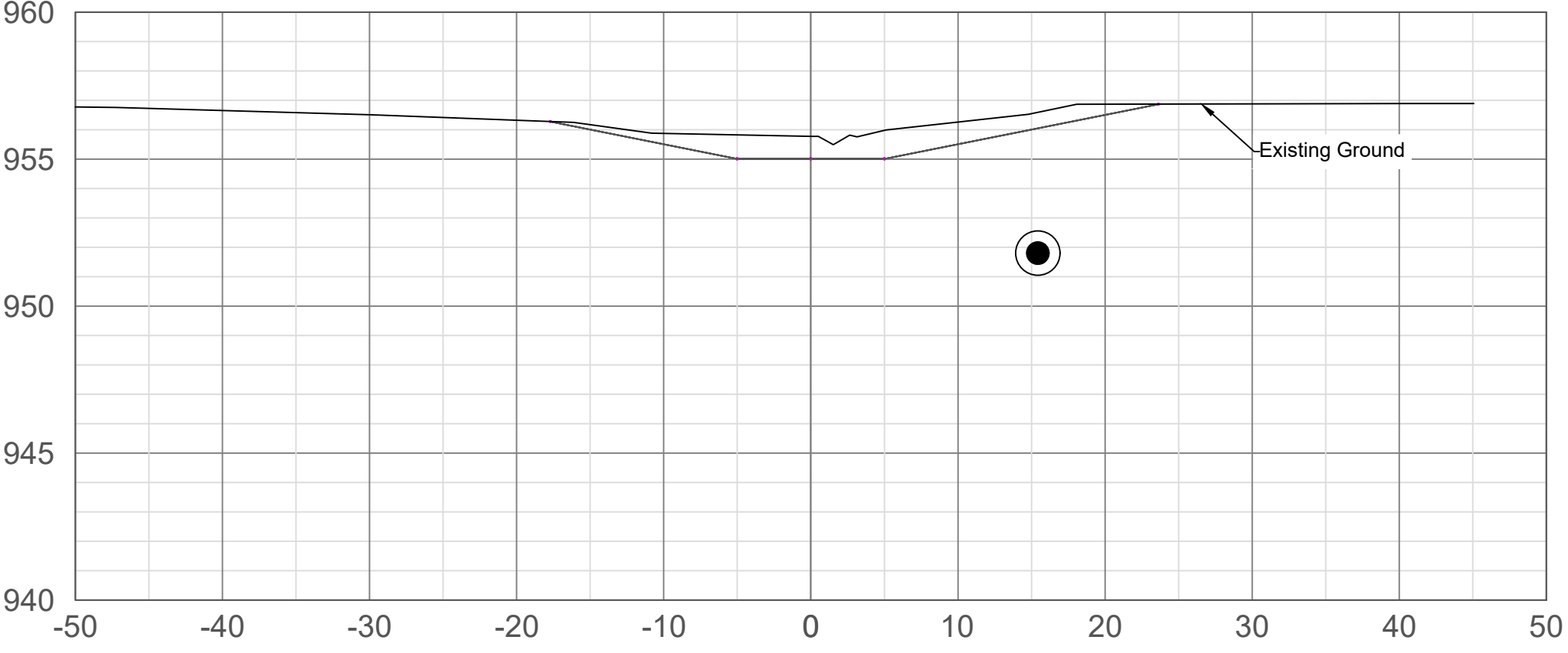
Davis #240 Main - STA 168+00



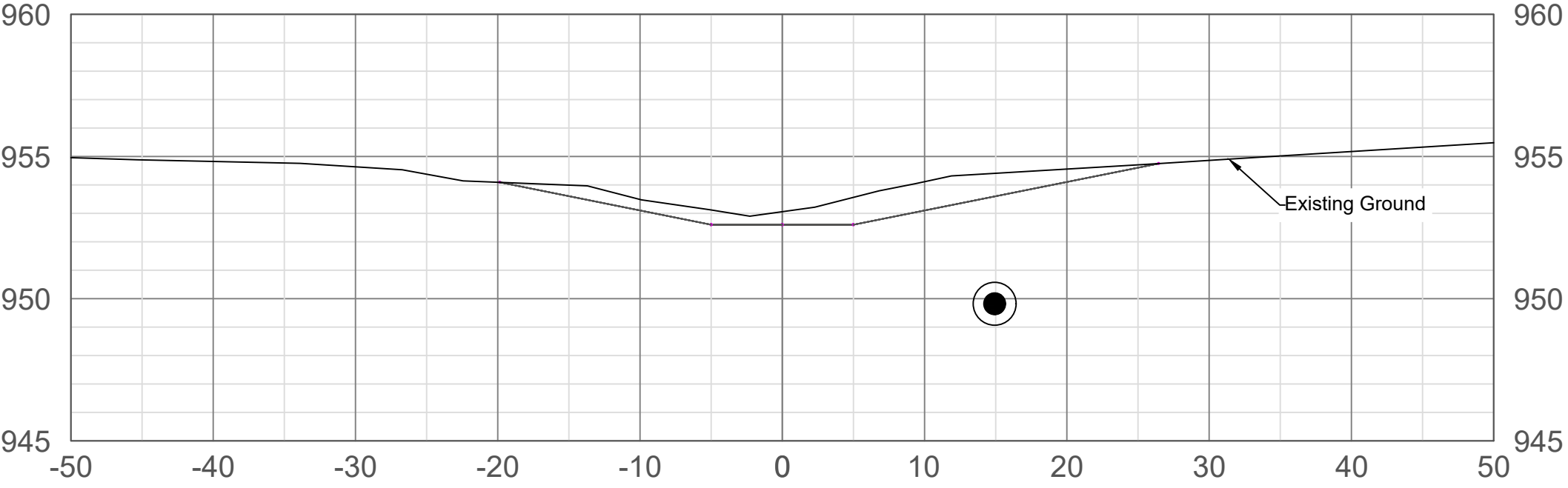
Davis #240 Main - STA 147+00



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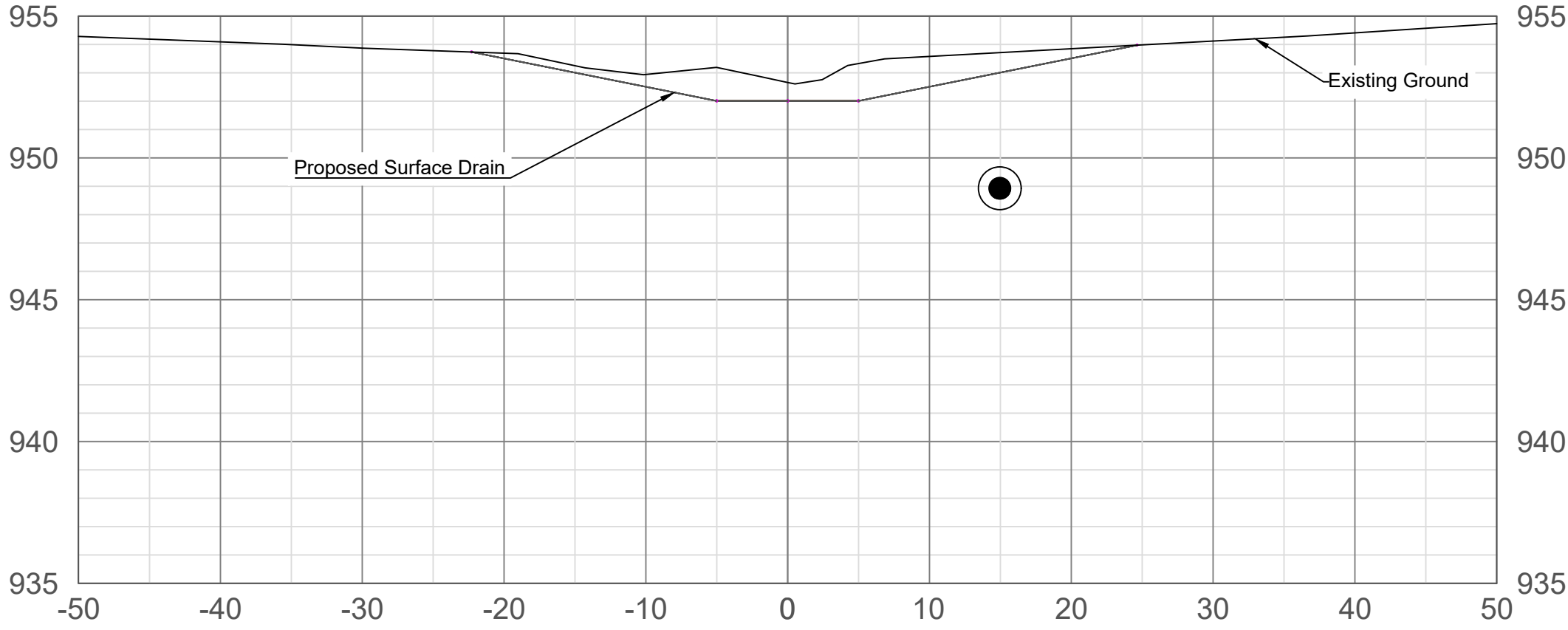


Davis #240 Main - STA 171+00

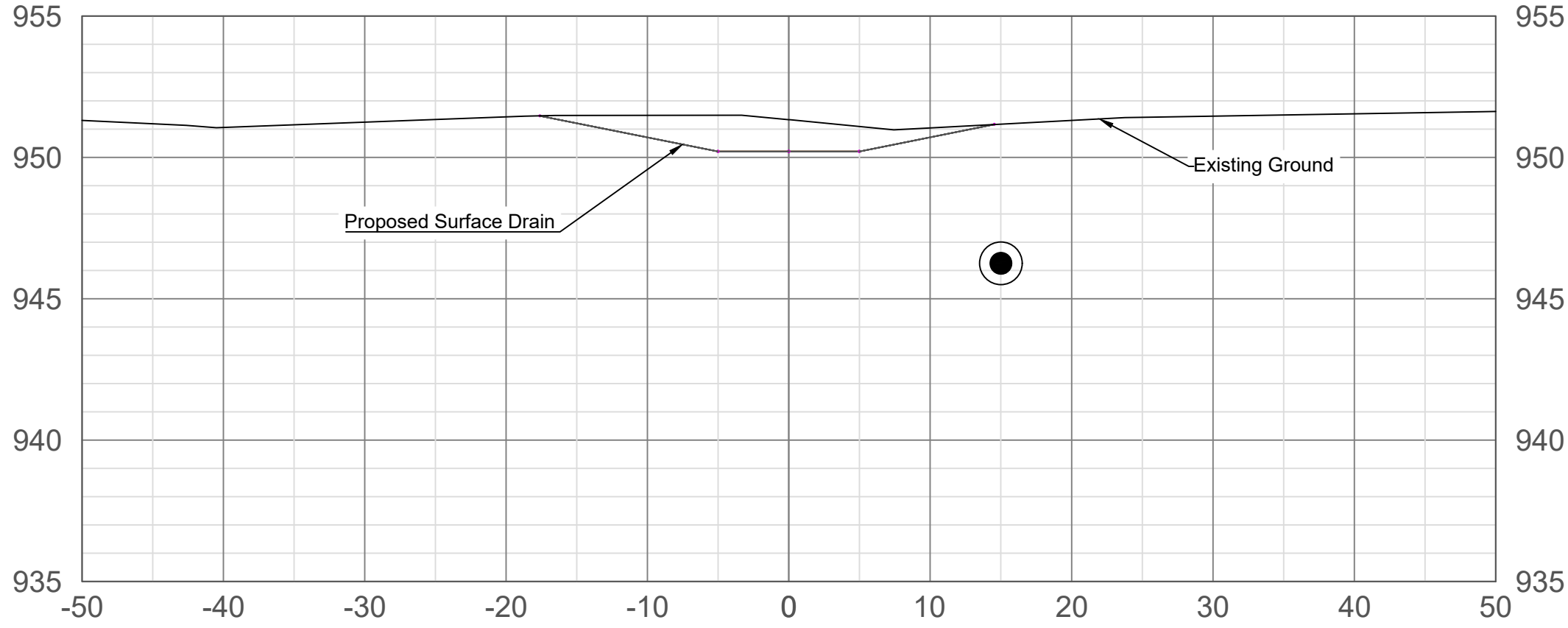


CROSS-SECTIONS

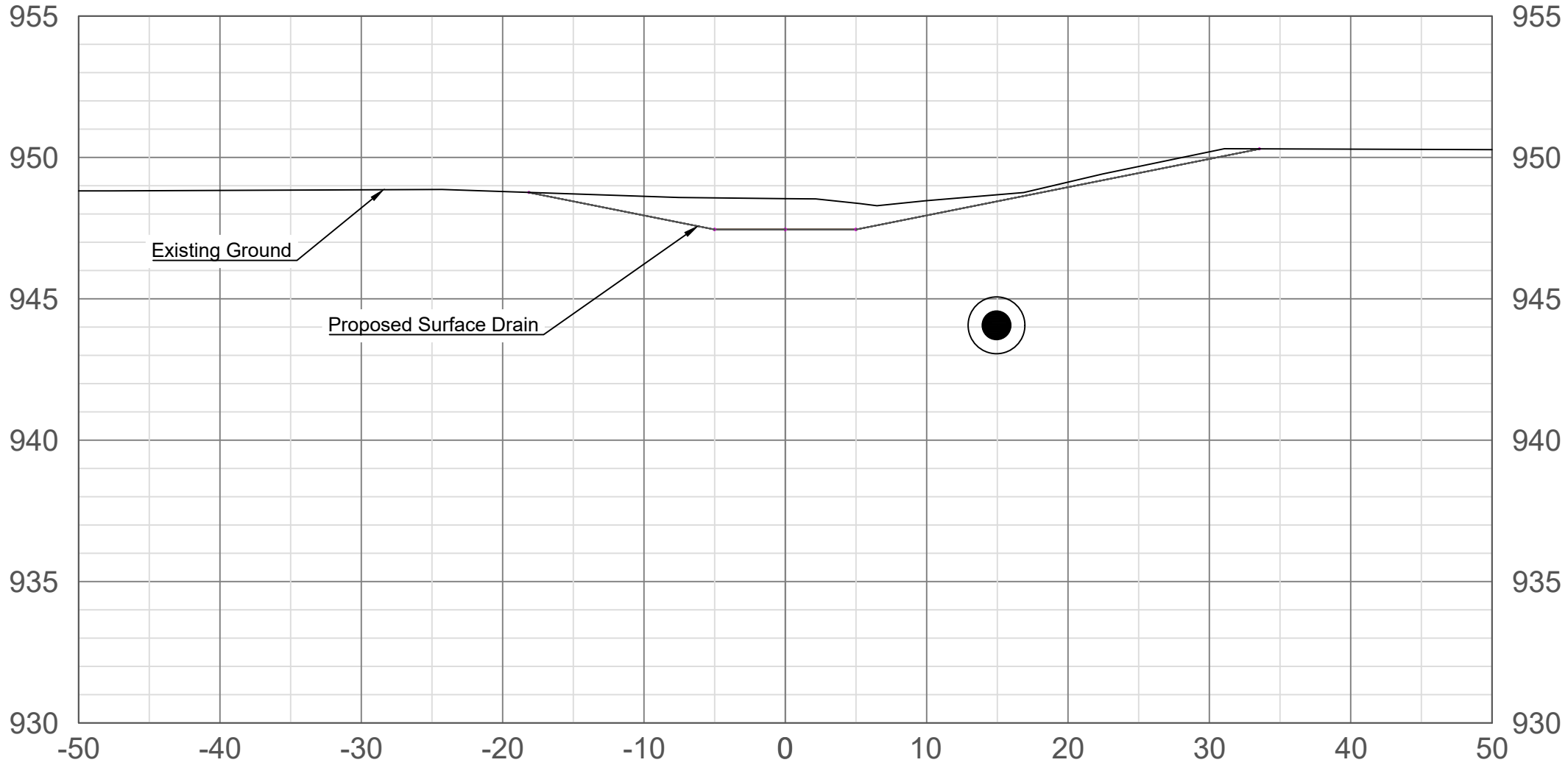
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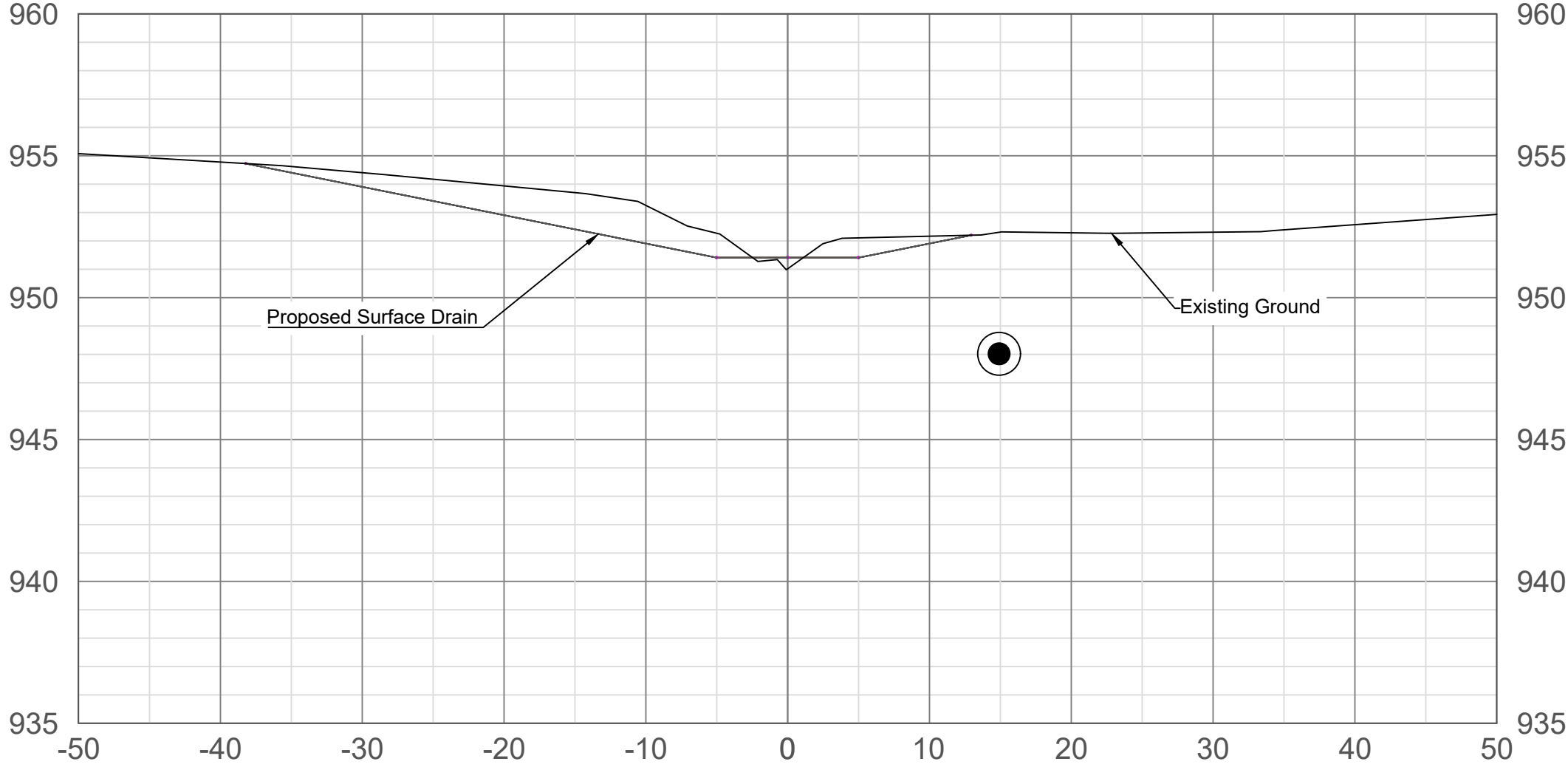
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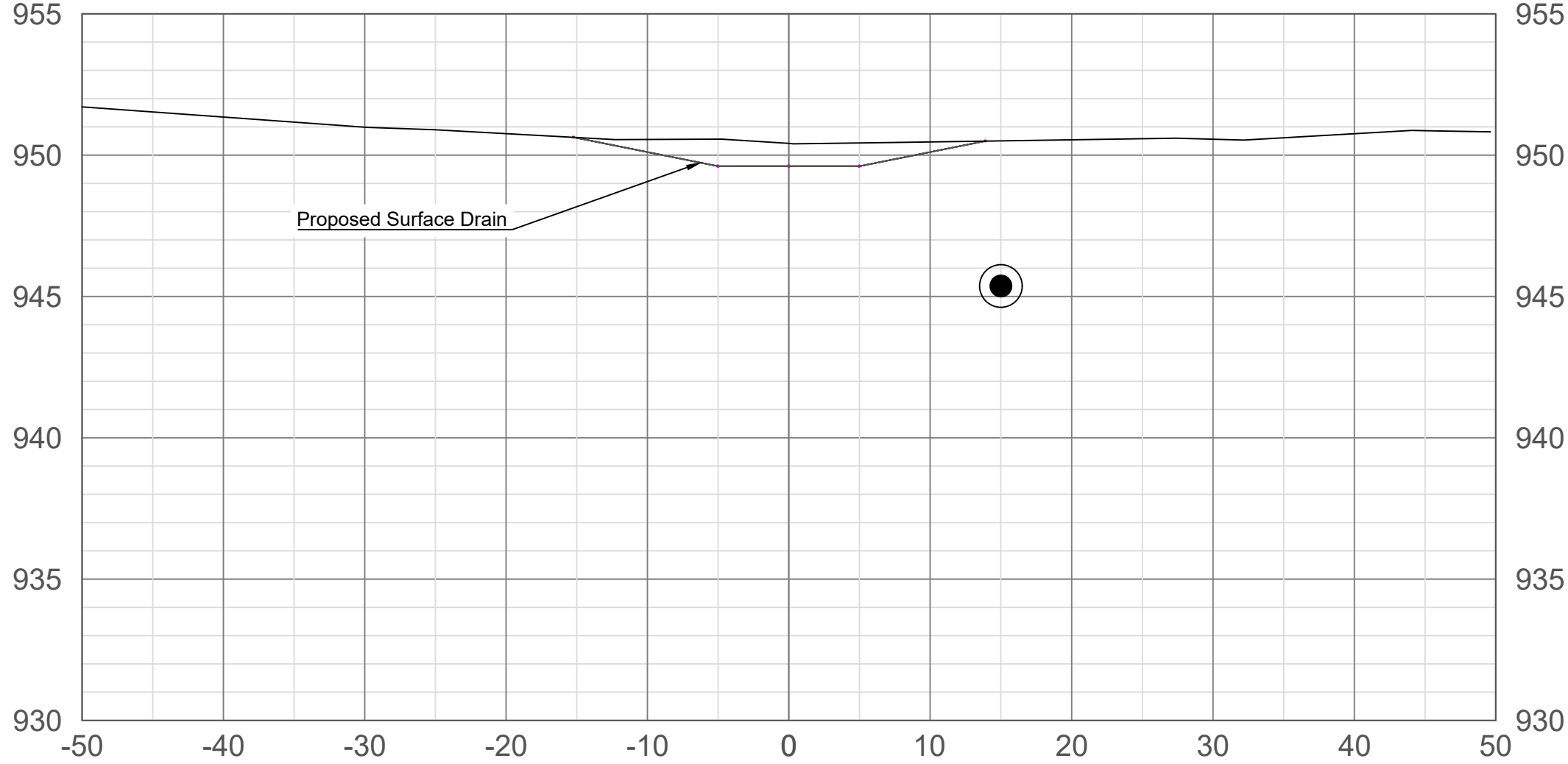
Davis #240 Main - STA 192+00



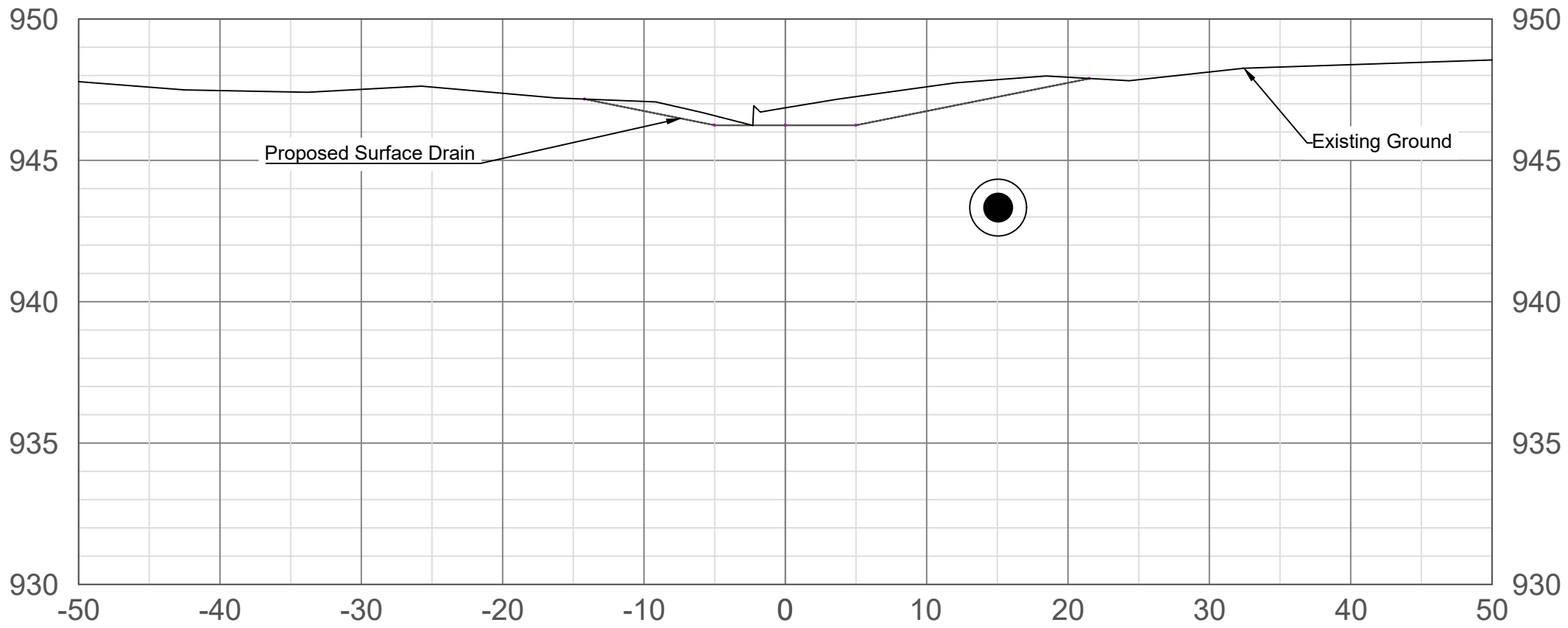
Davis #240 Main - STA 177+00



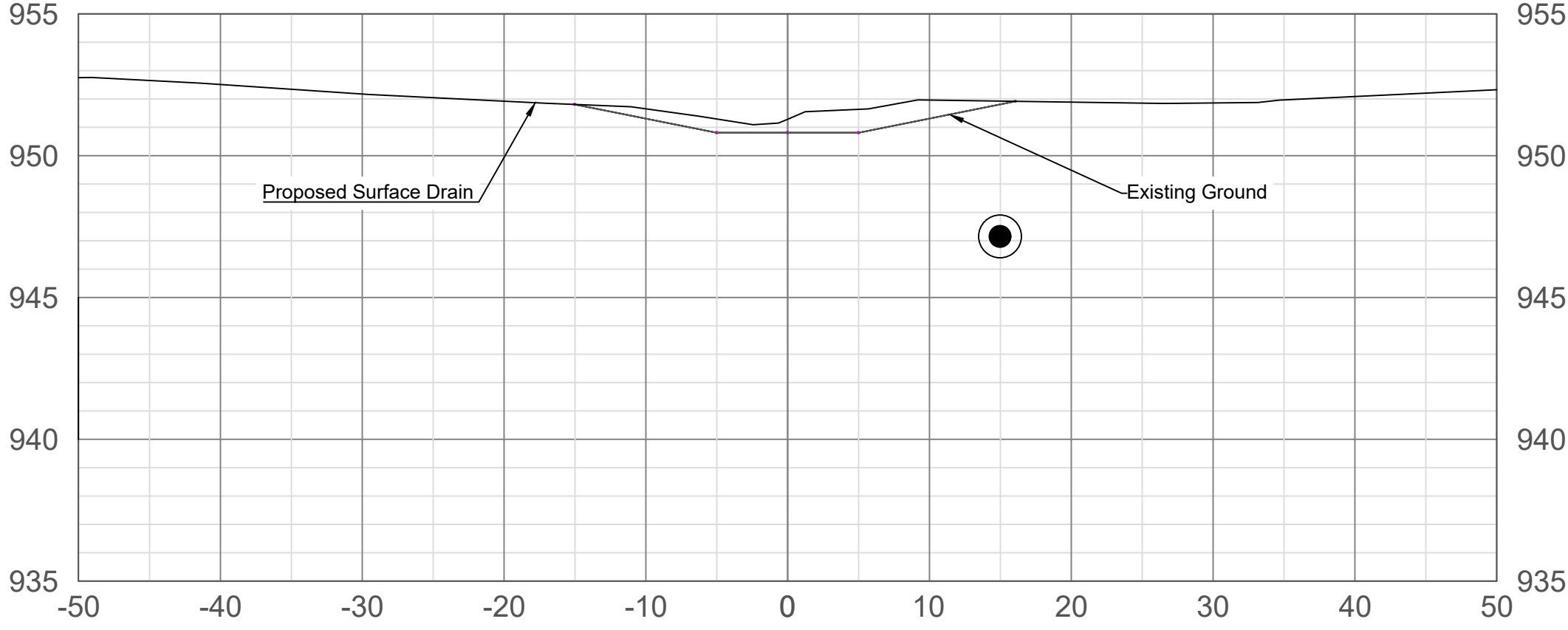
Davis #240 Main - STA 186+00



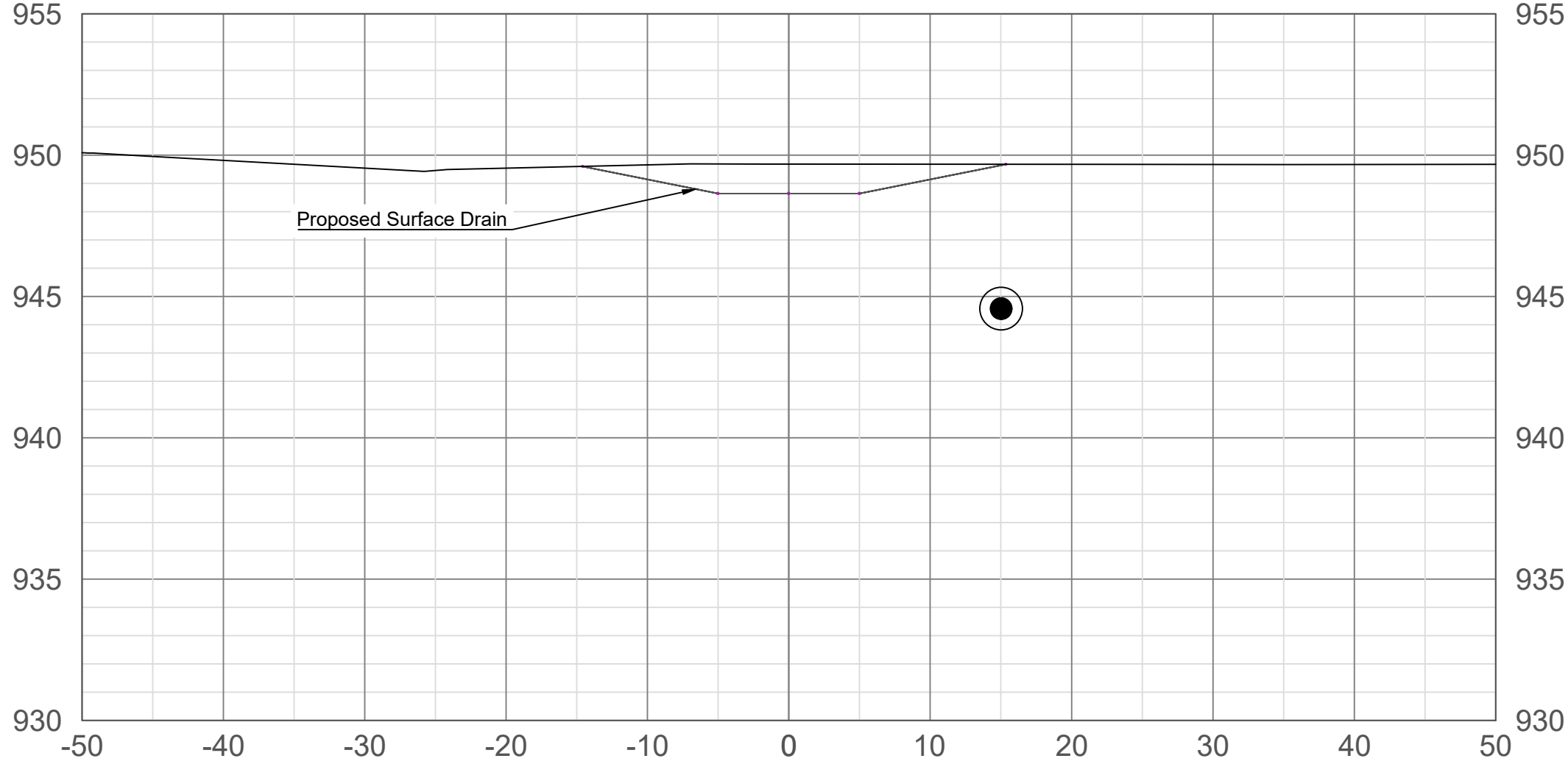
Davis #240 Main - STA 195+00



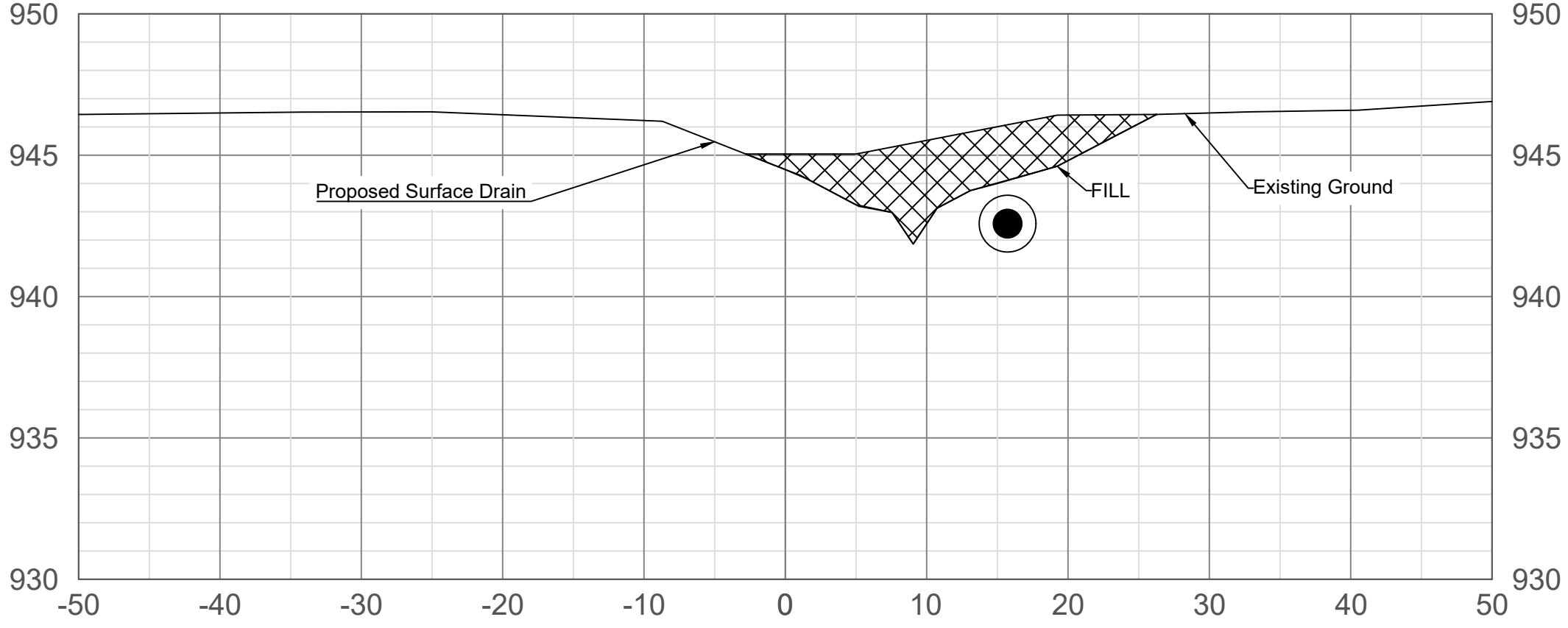
Davis #240 Main - STA 180+00



Davis #240 Main - STA 189+00

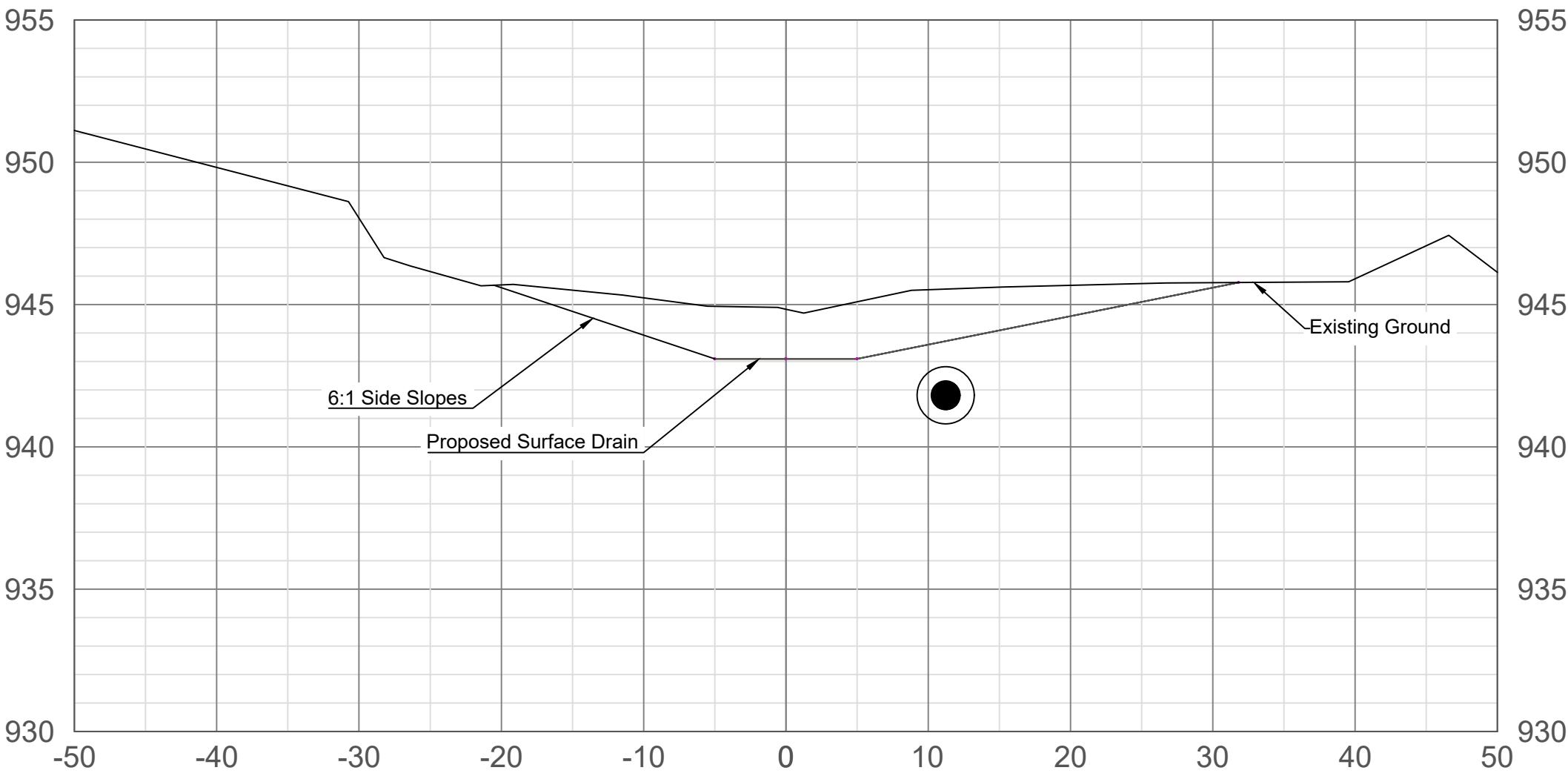


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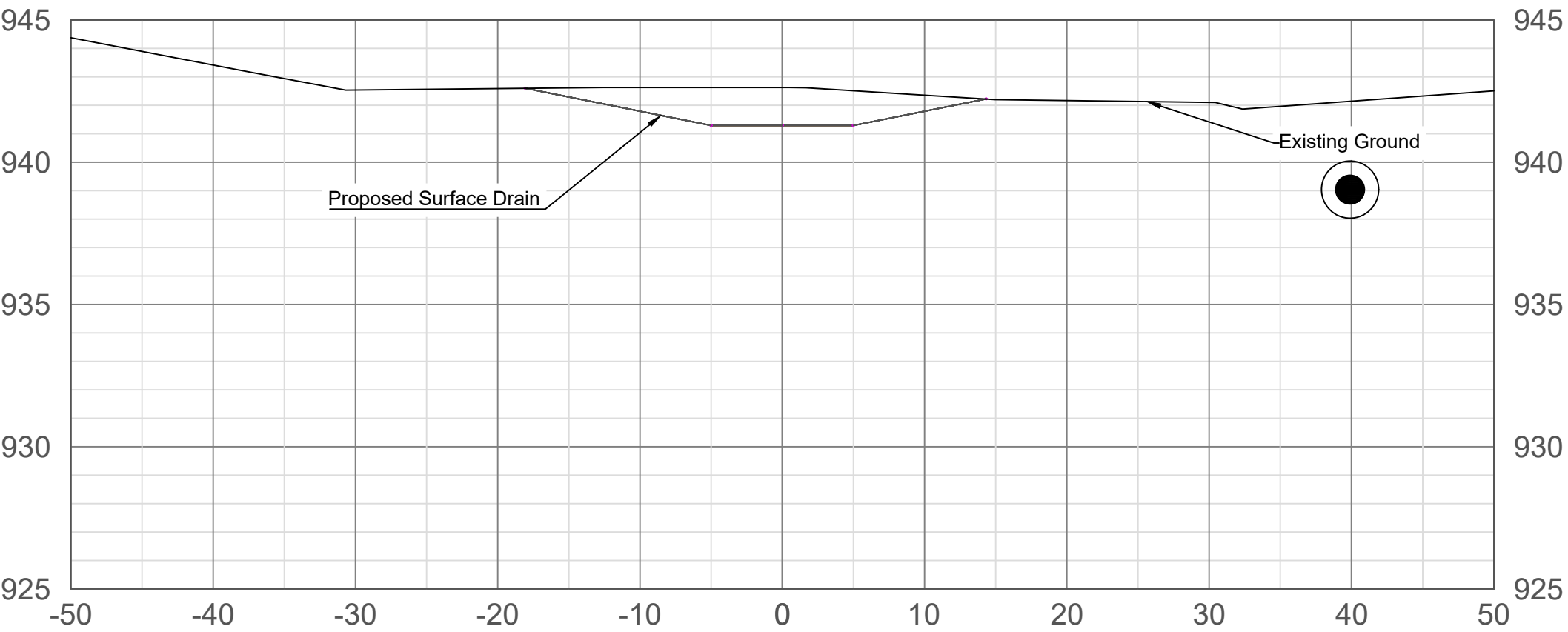


CROSS-SECTIONS

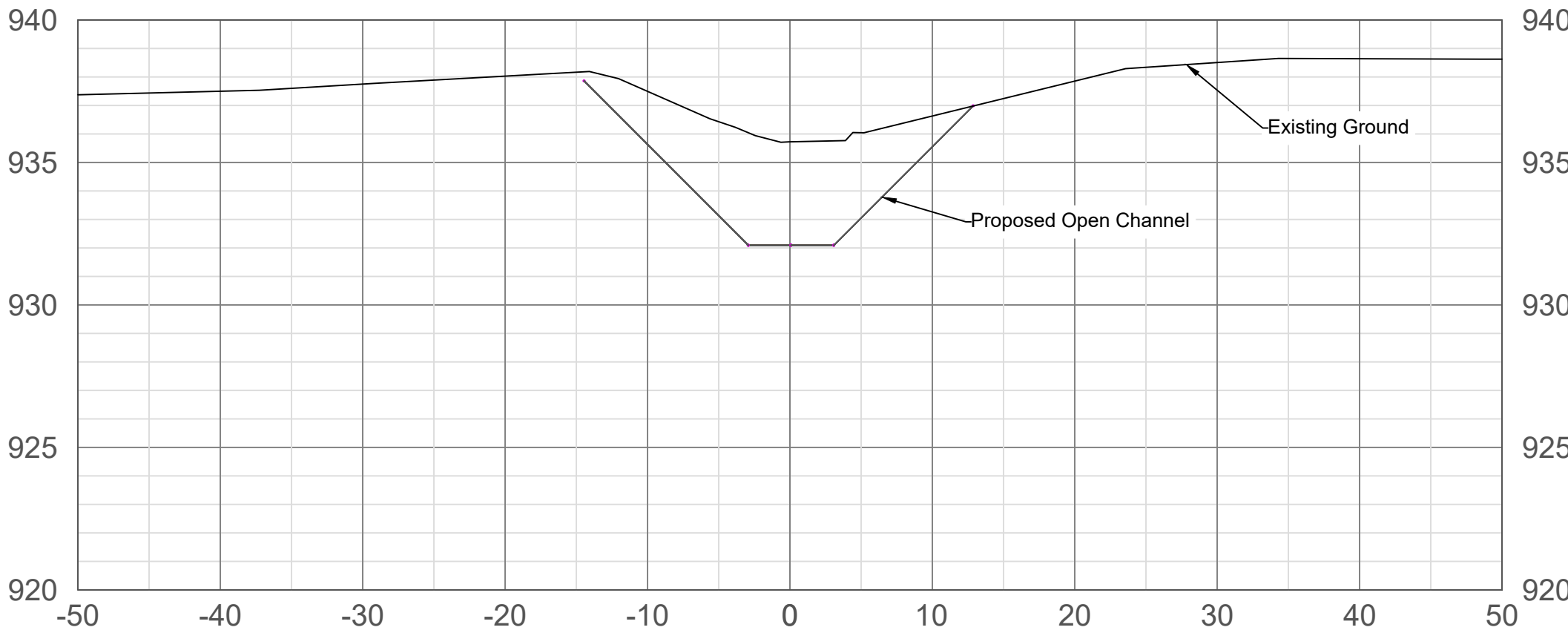
Davis #240 Main - STA 201+00



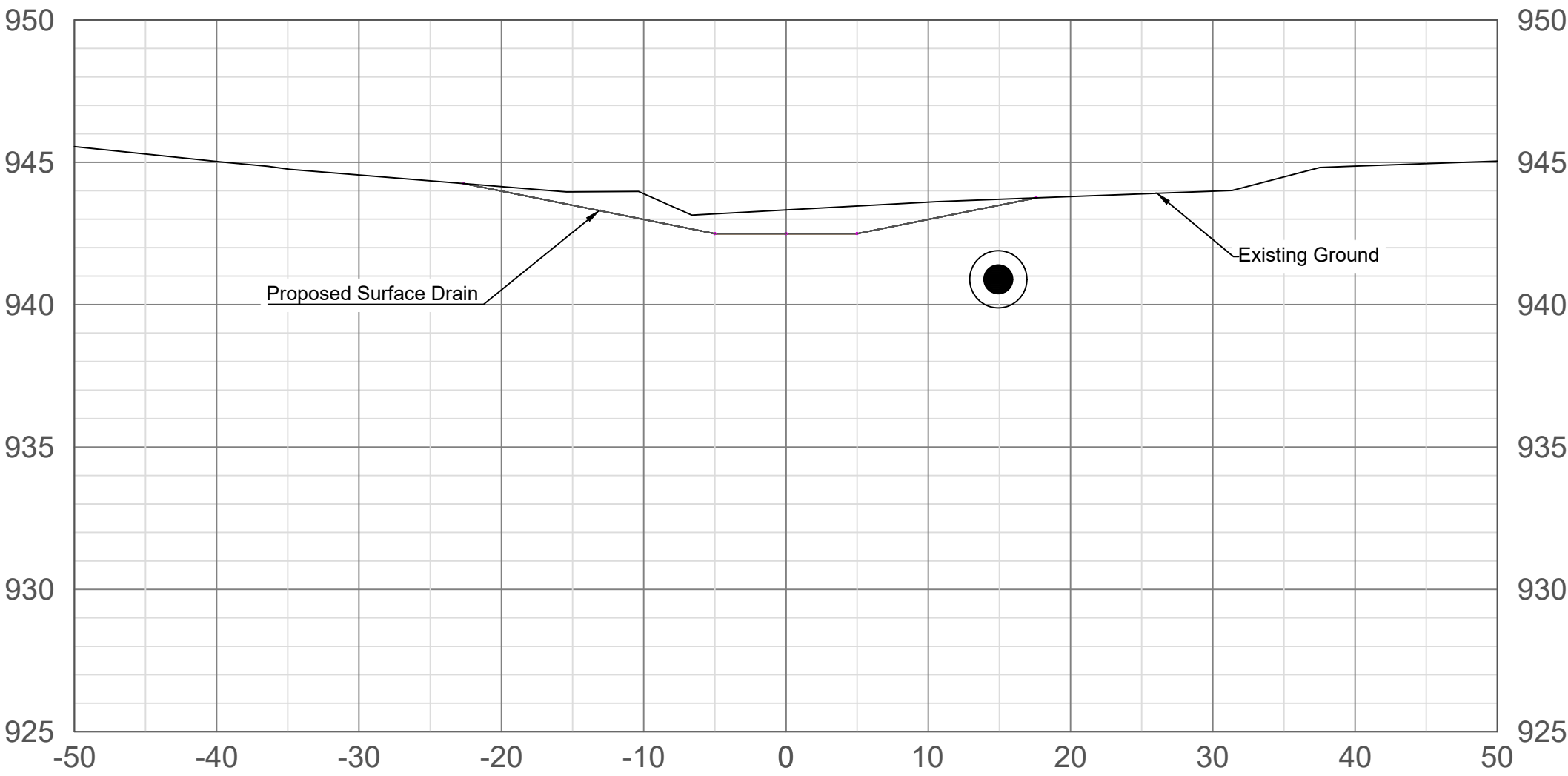
Davis #240 Main - STA 210+00



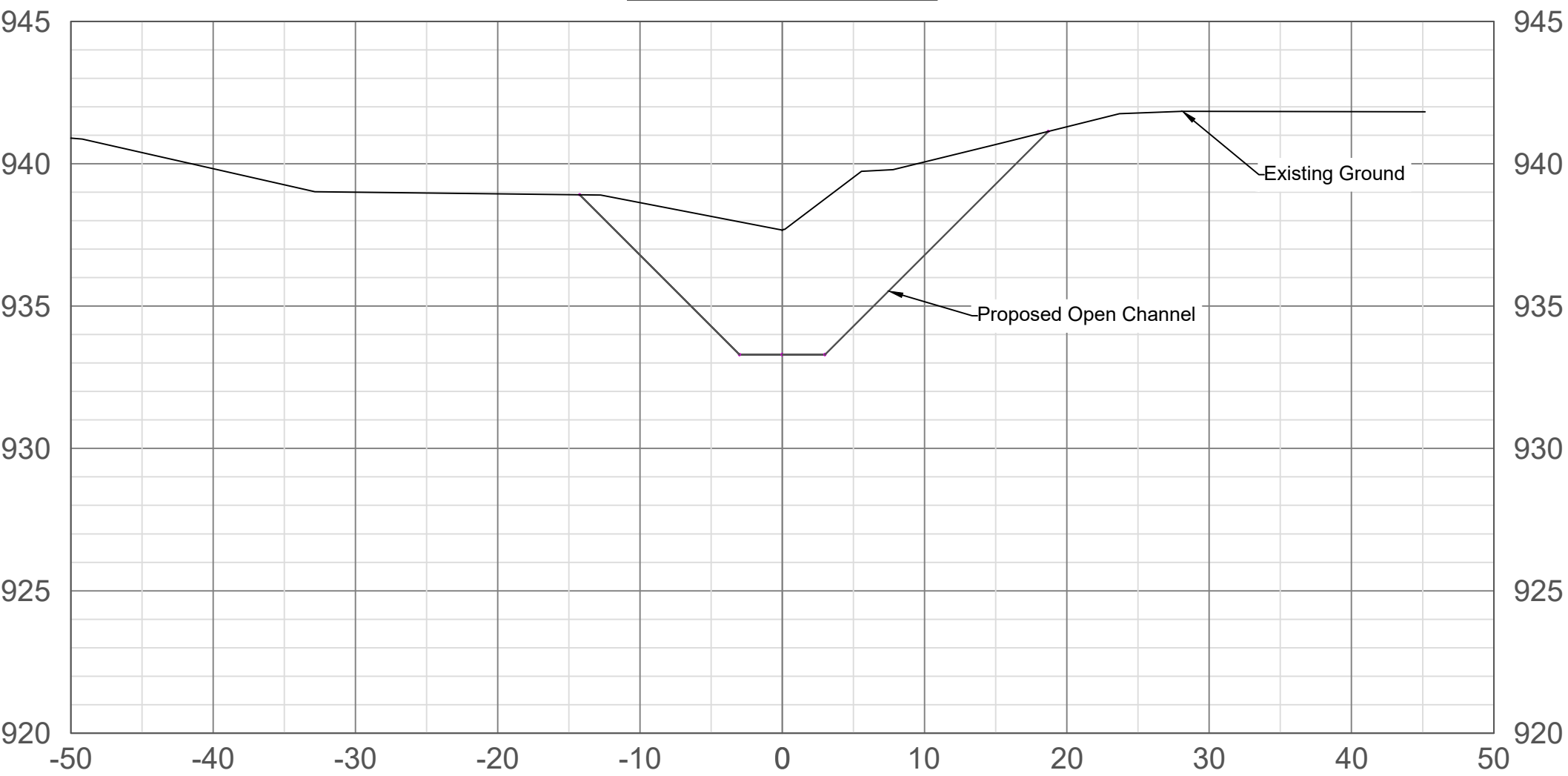
Davis #240 Main - STA 219+00



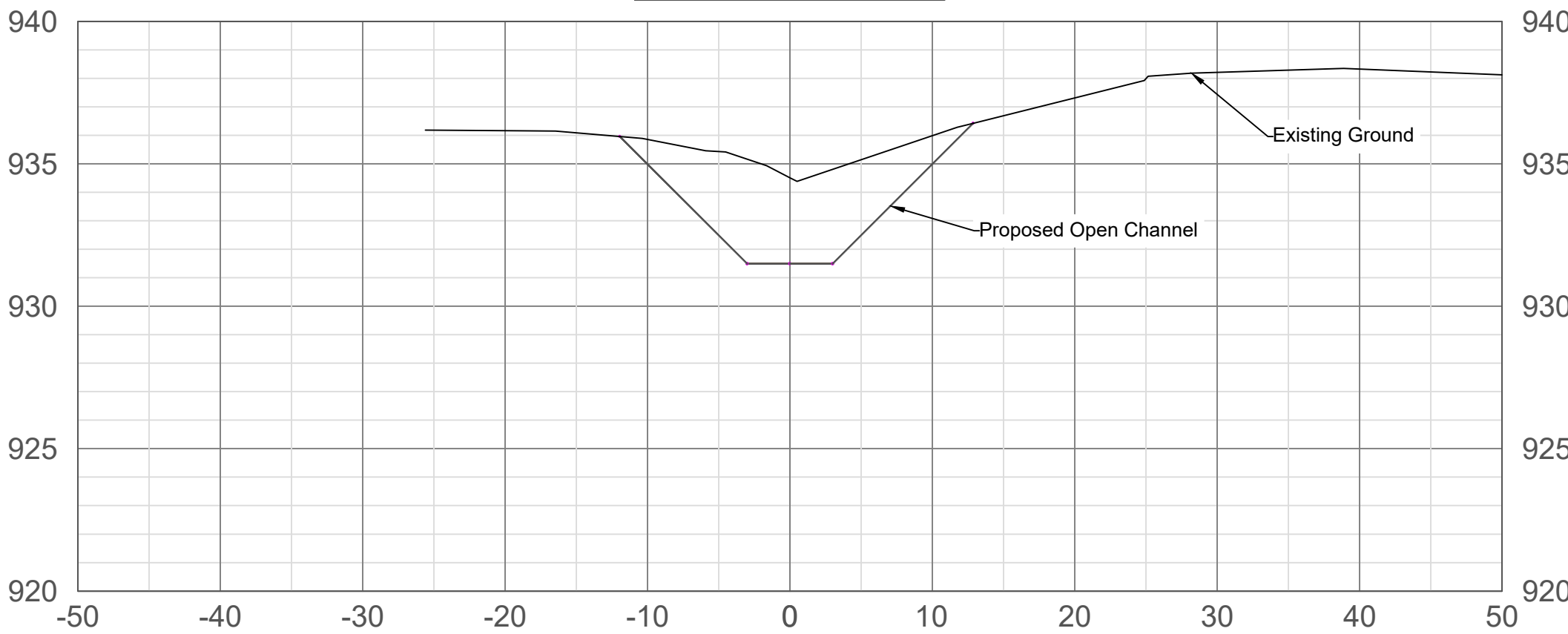
Davis #240 Main - STA 204+00



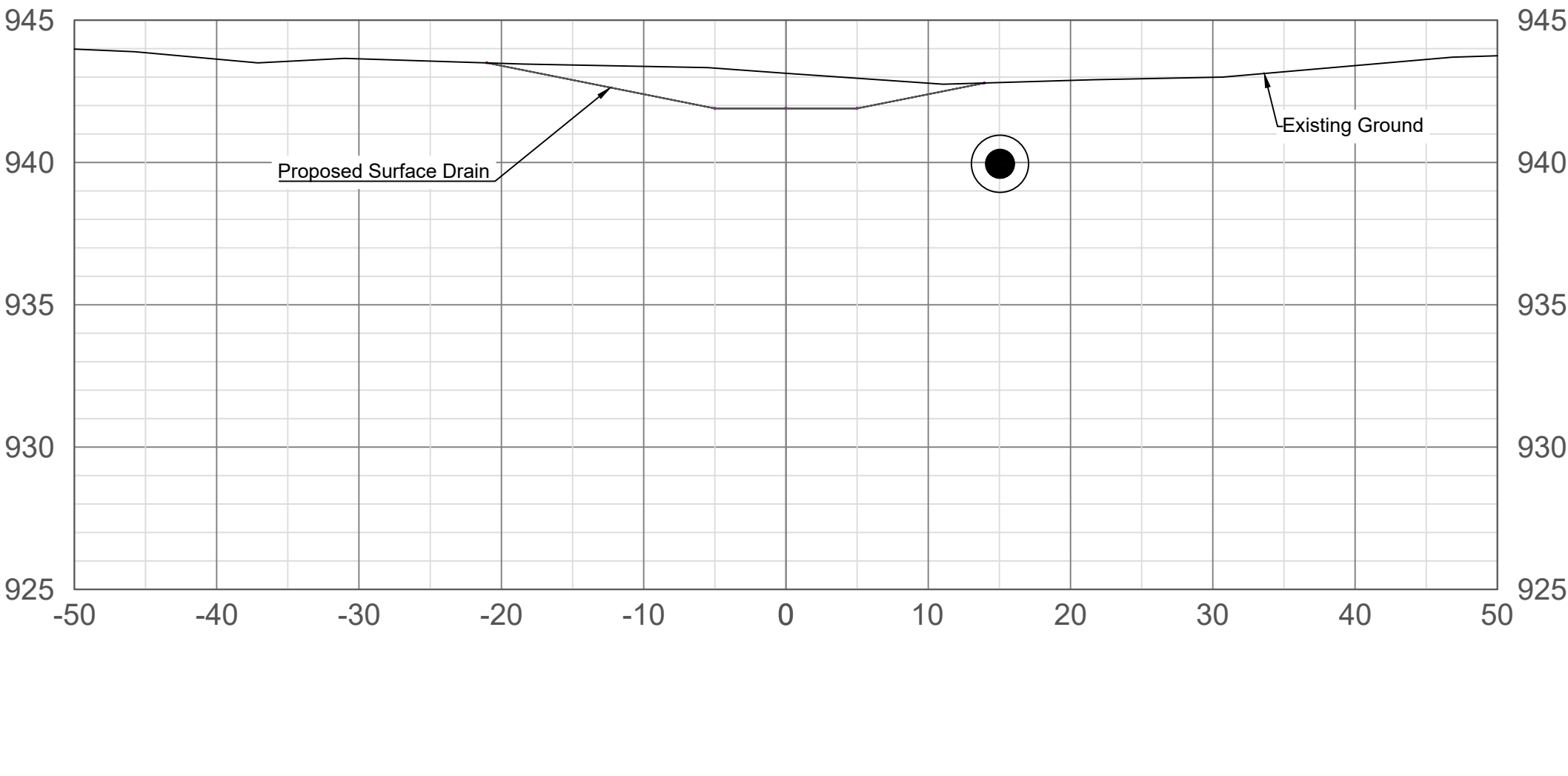
Davis #240 Main - STA 213+00



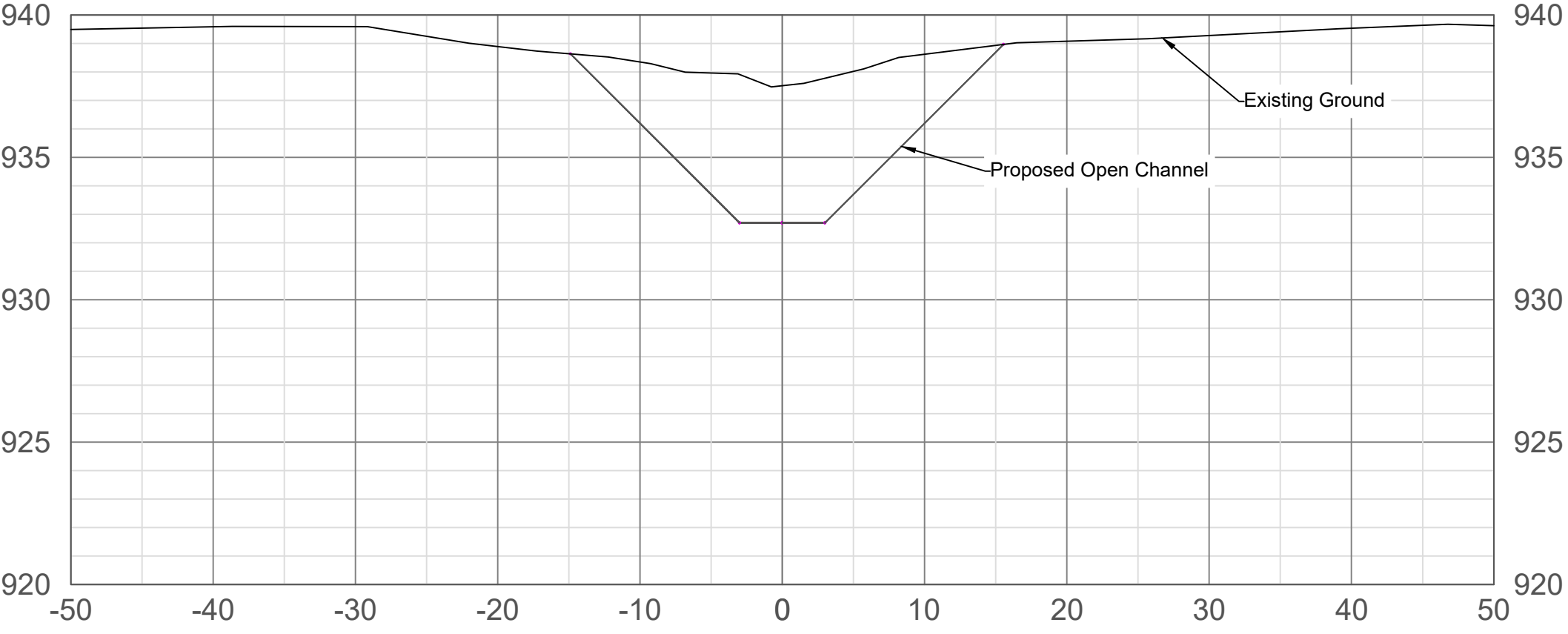
Davis #240 Main - STA 222+00



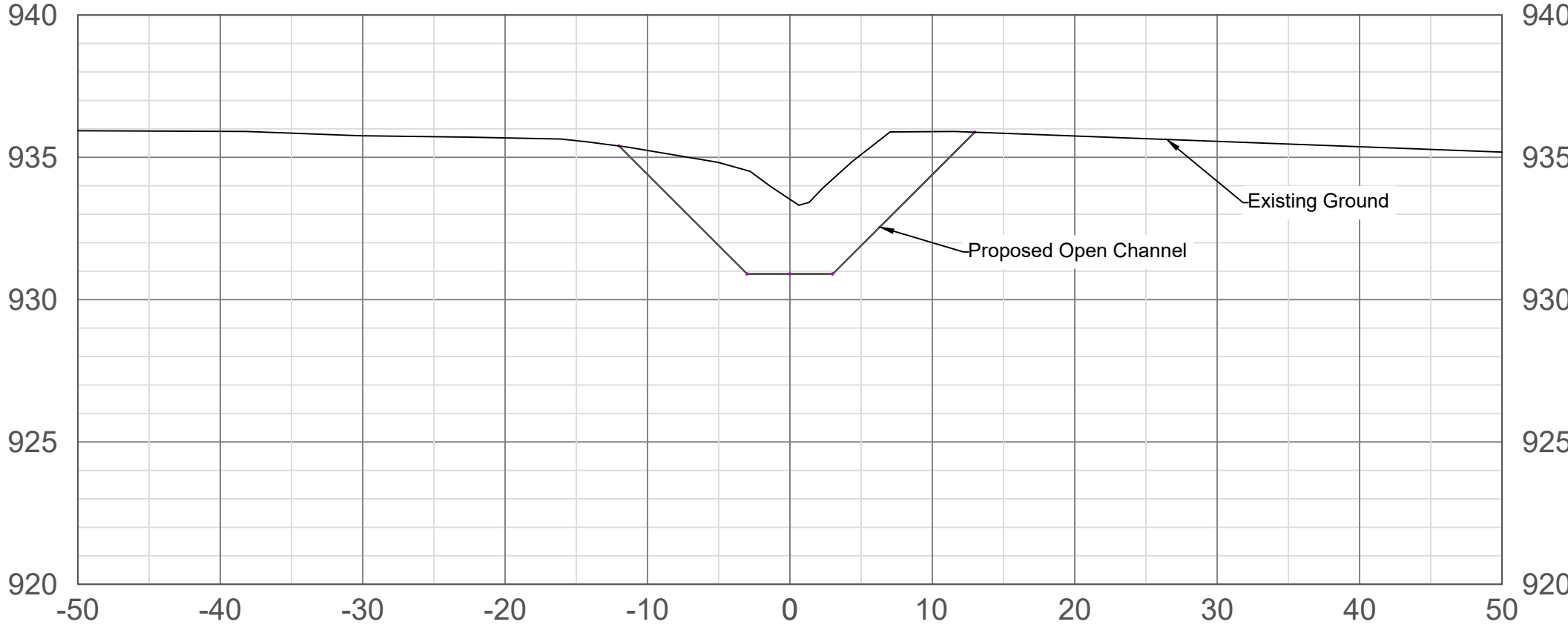
Davis #240 Main - STA 207+00



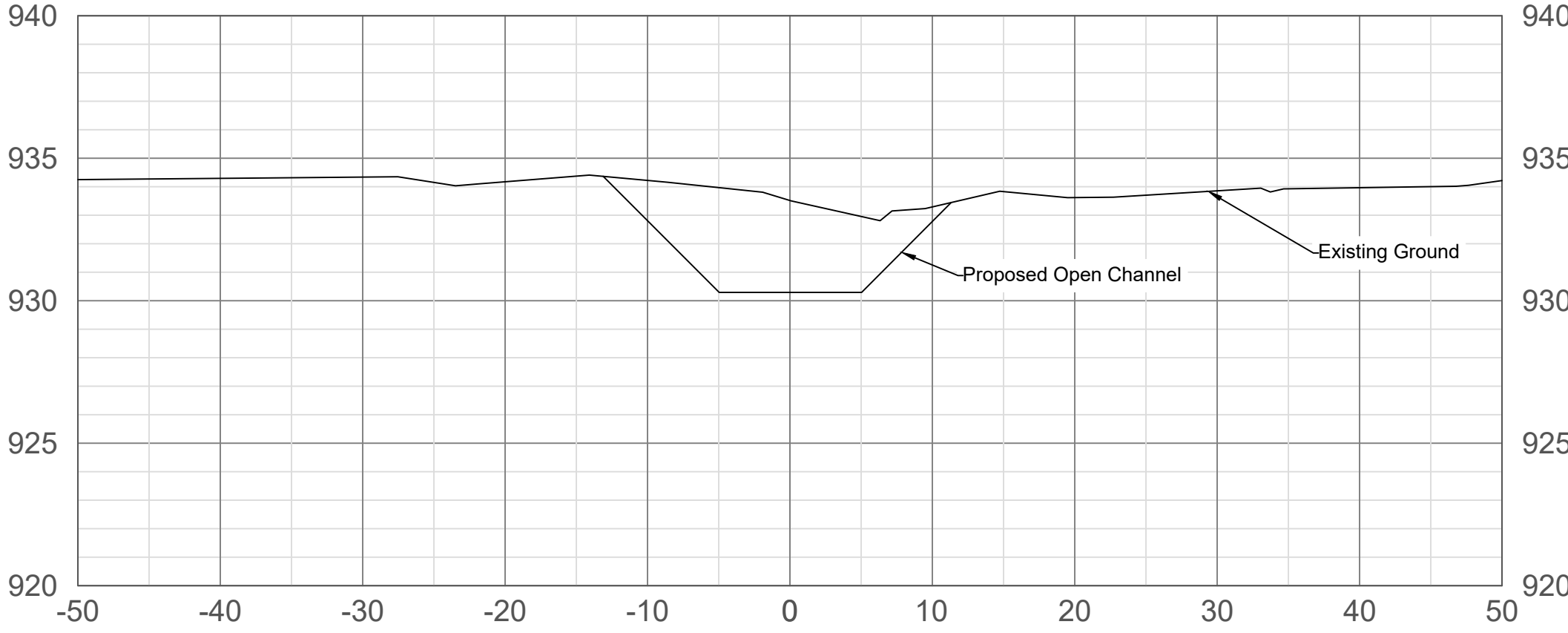
Davis #240 Main - STA 216+00



Davis #240 Main - STA 225+00

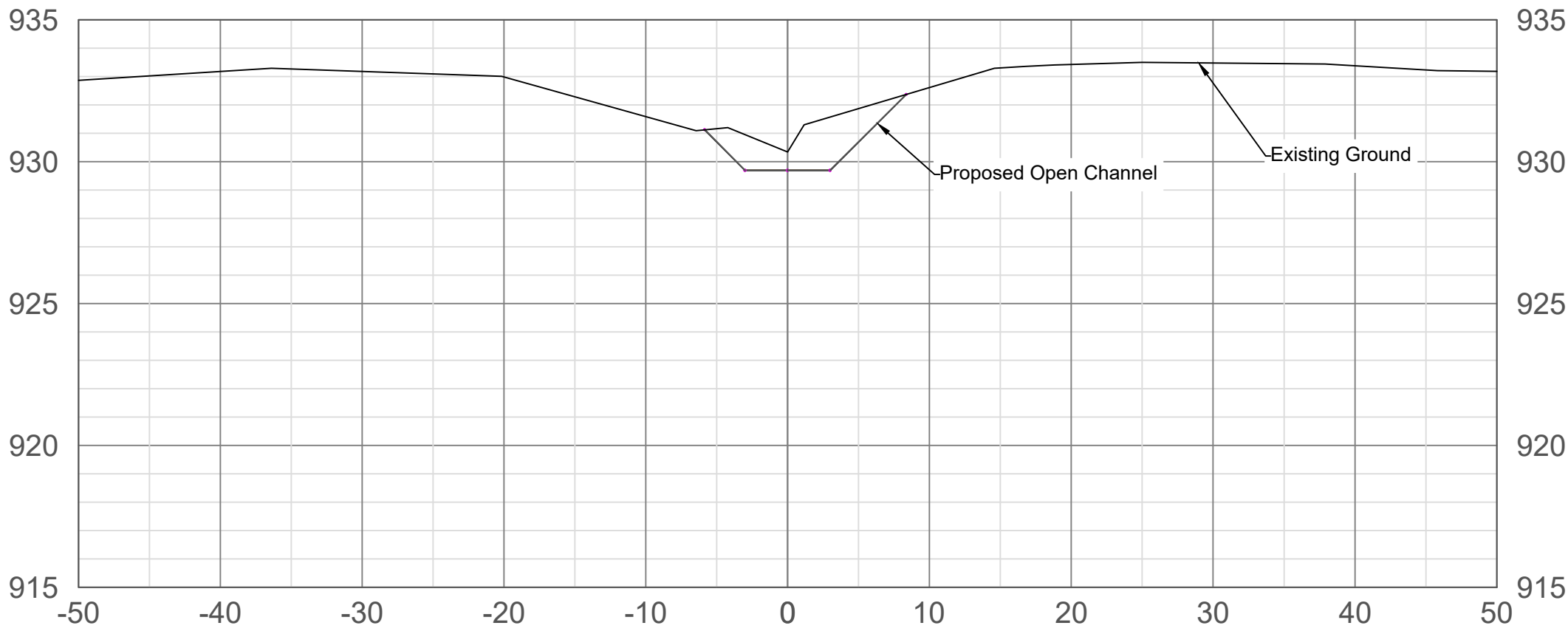


Davis #240 Main - STA 228+00

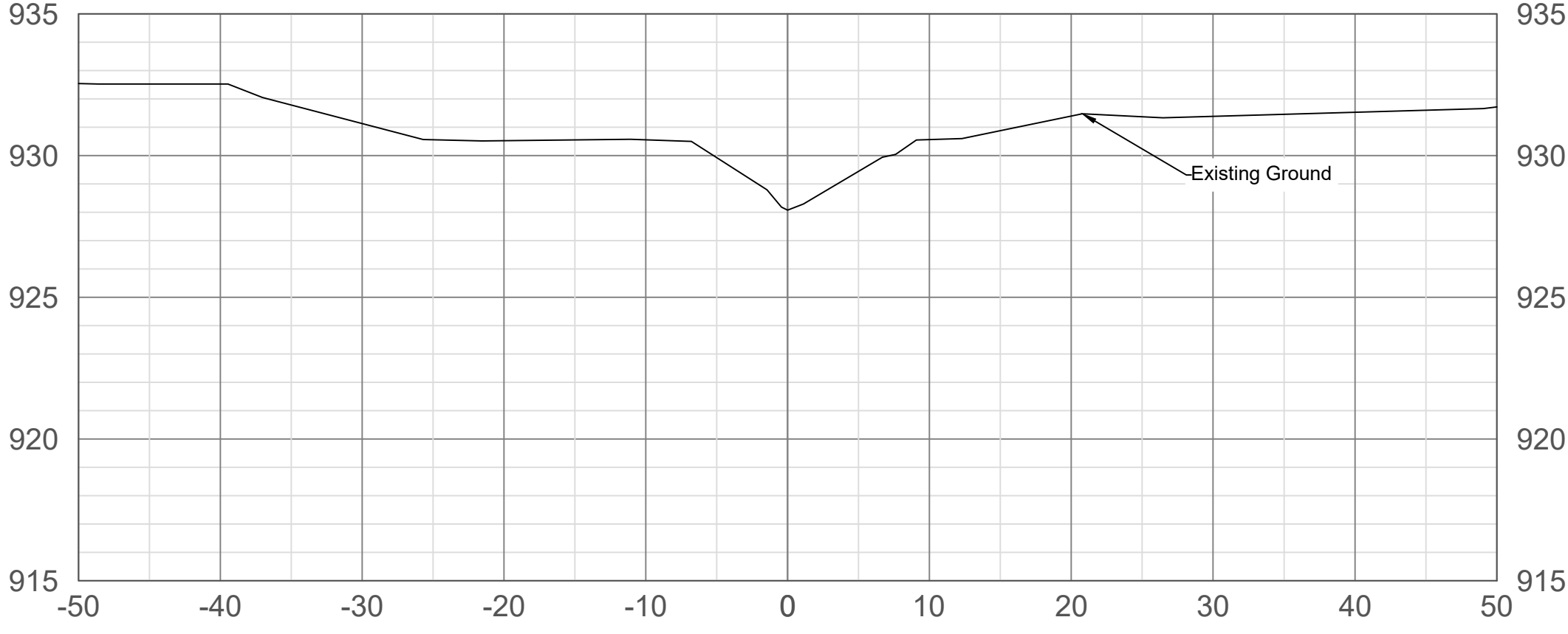


CROSS-SECTIONS

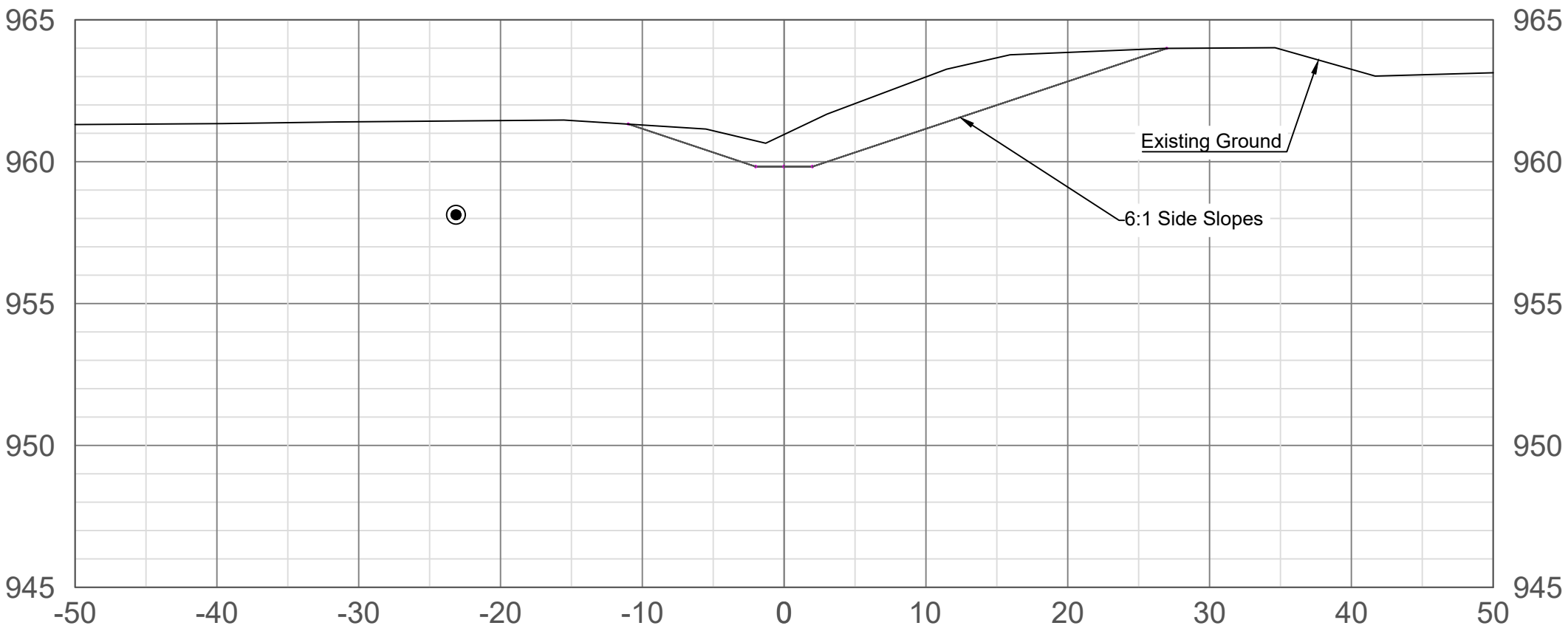
Davis #240 Main - STA 231+00



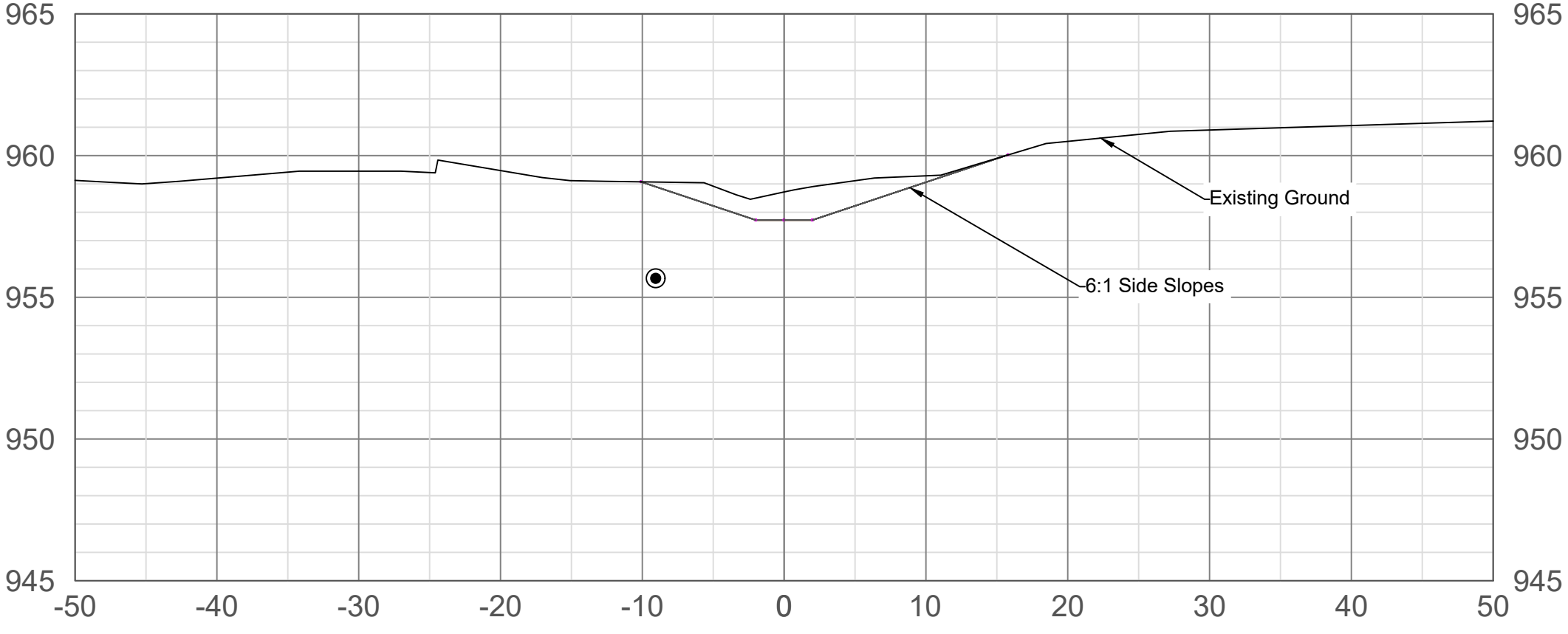
Davis #240 Main - STA 234+00



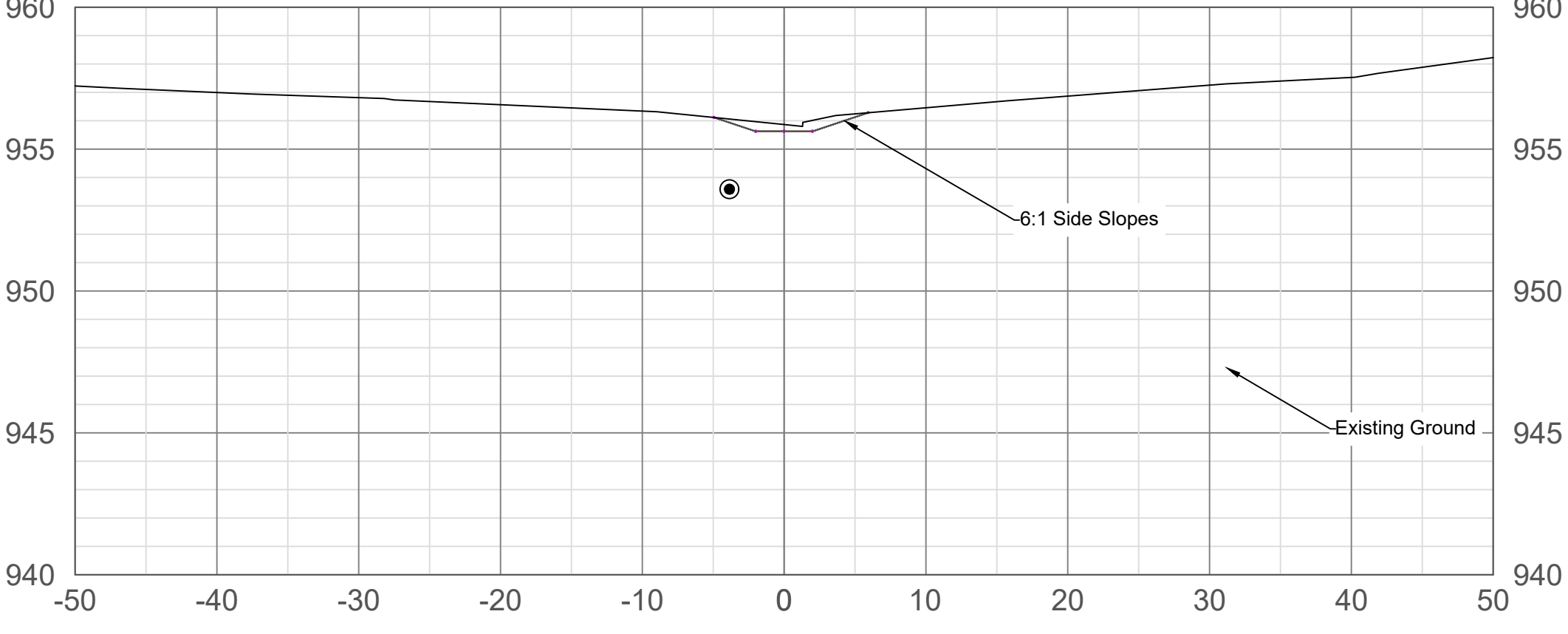
Davis #240 - Lateral #1 - STA 501+00



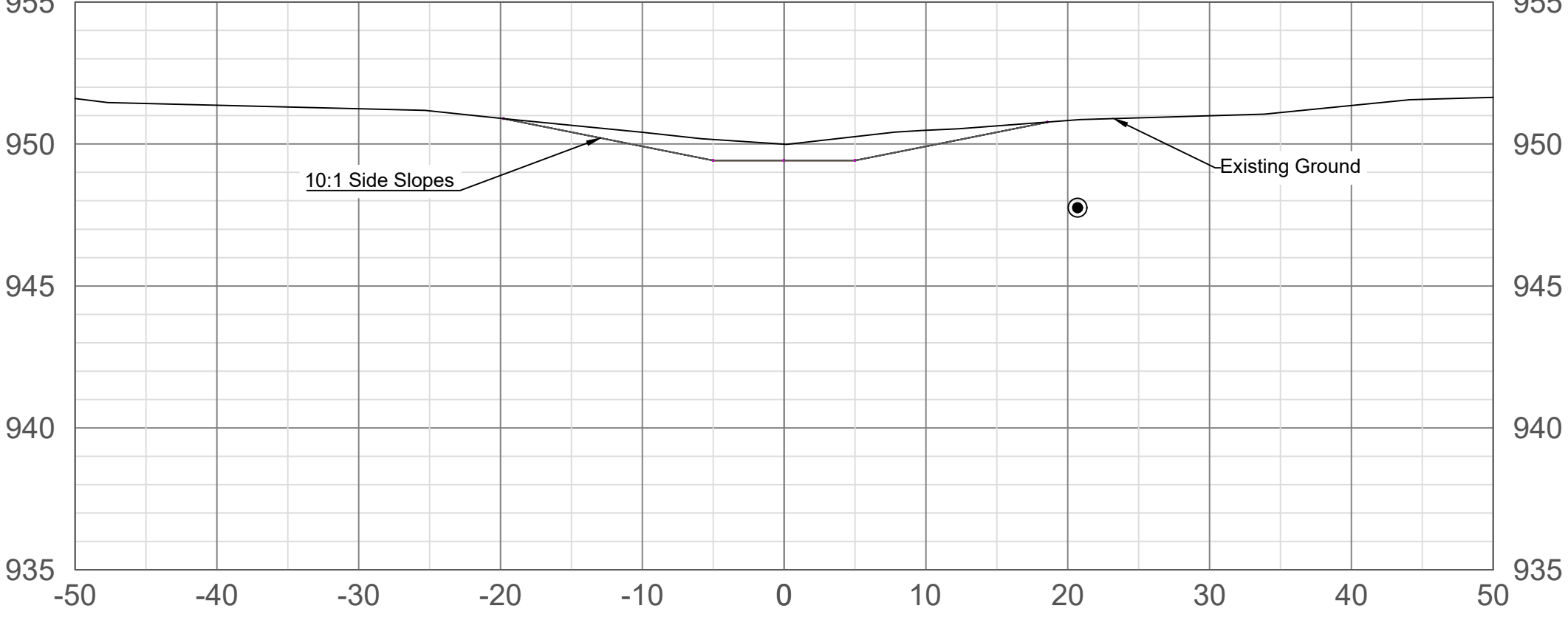
Davis #240 - Lateral #1 - STA 504+00



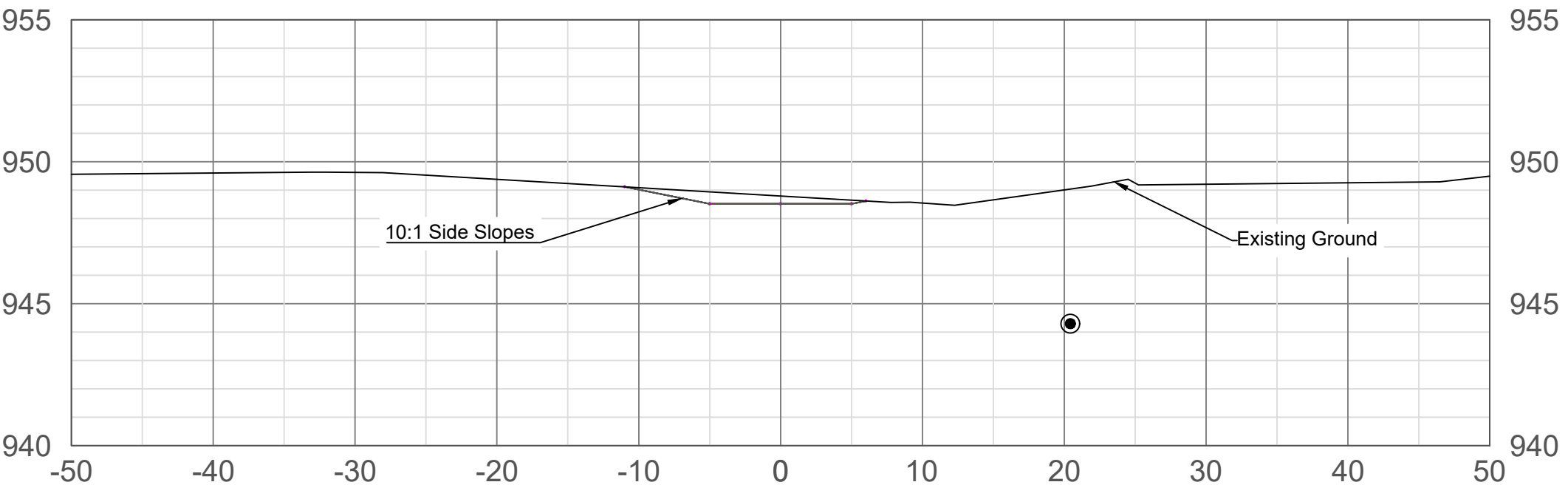
Davis #240 - Lateral #1 - STA 507+00

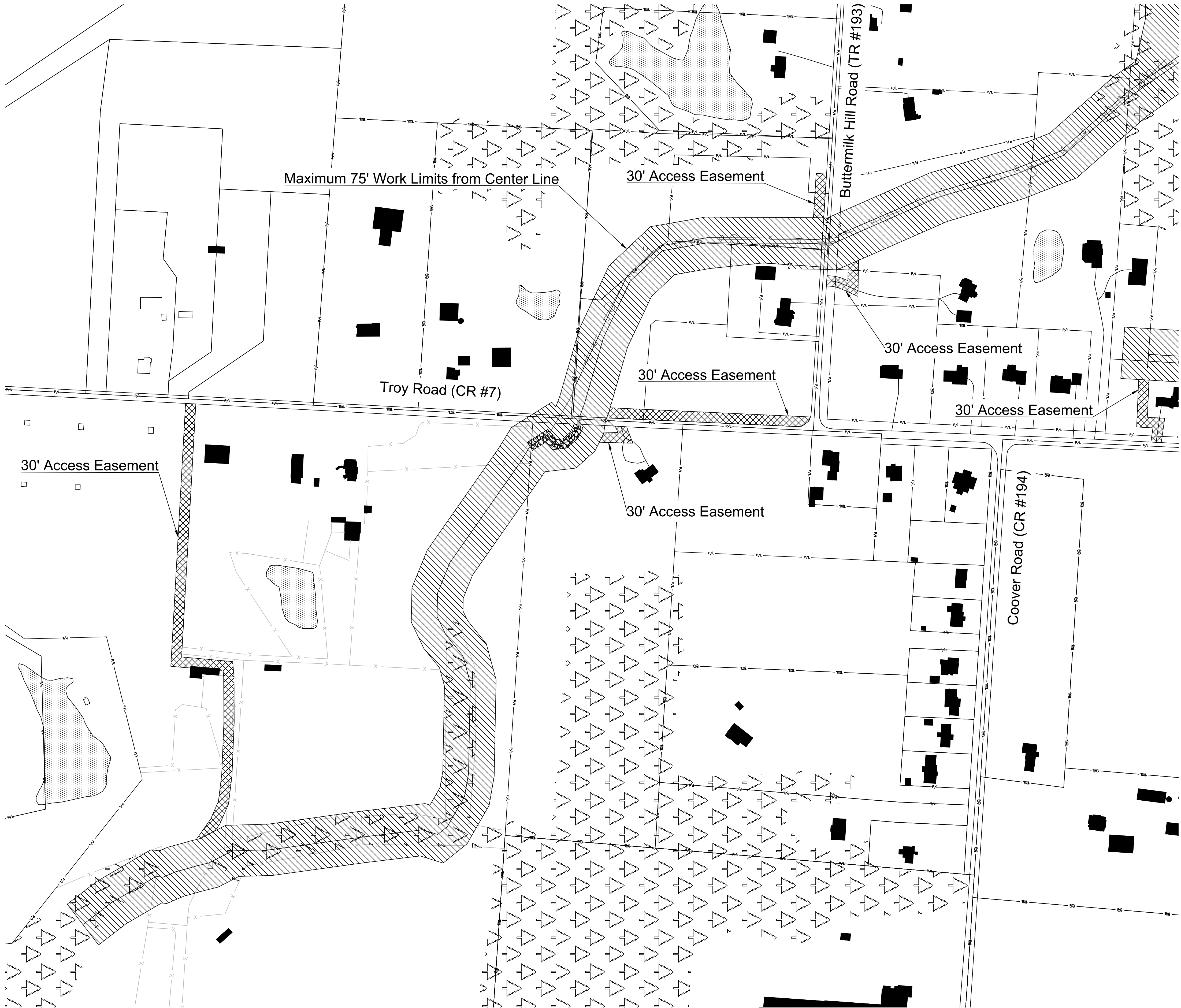
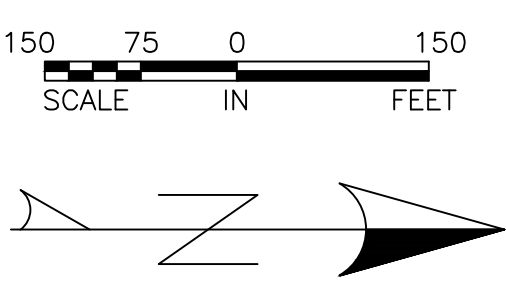


Davis #240 - Lateral #1 - STA 513+00



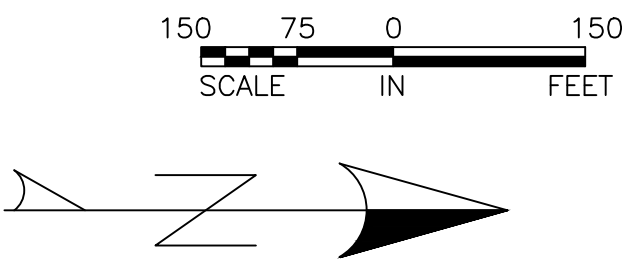
Davis #240 - Lateral #1 - STA 516+00



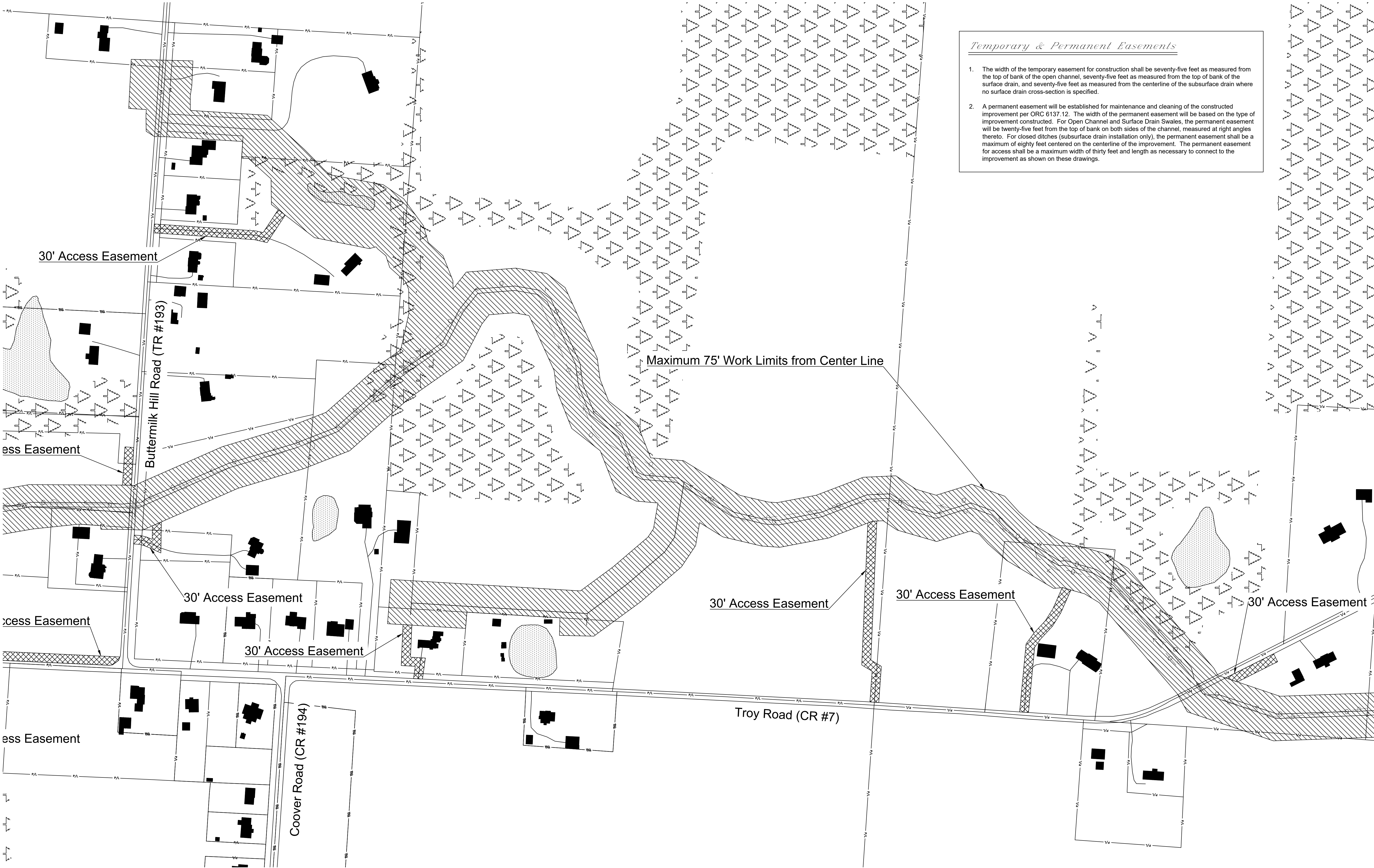


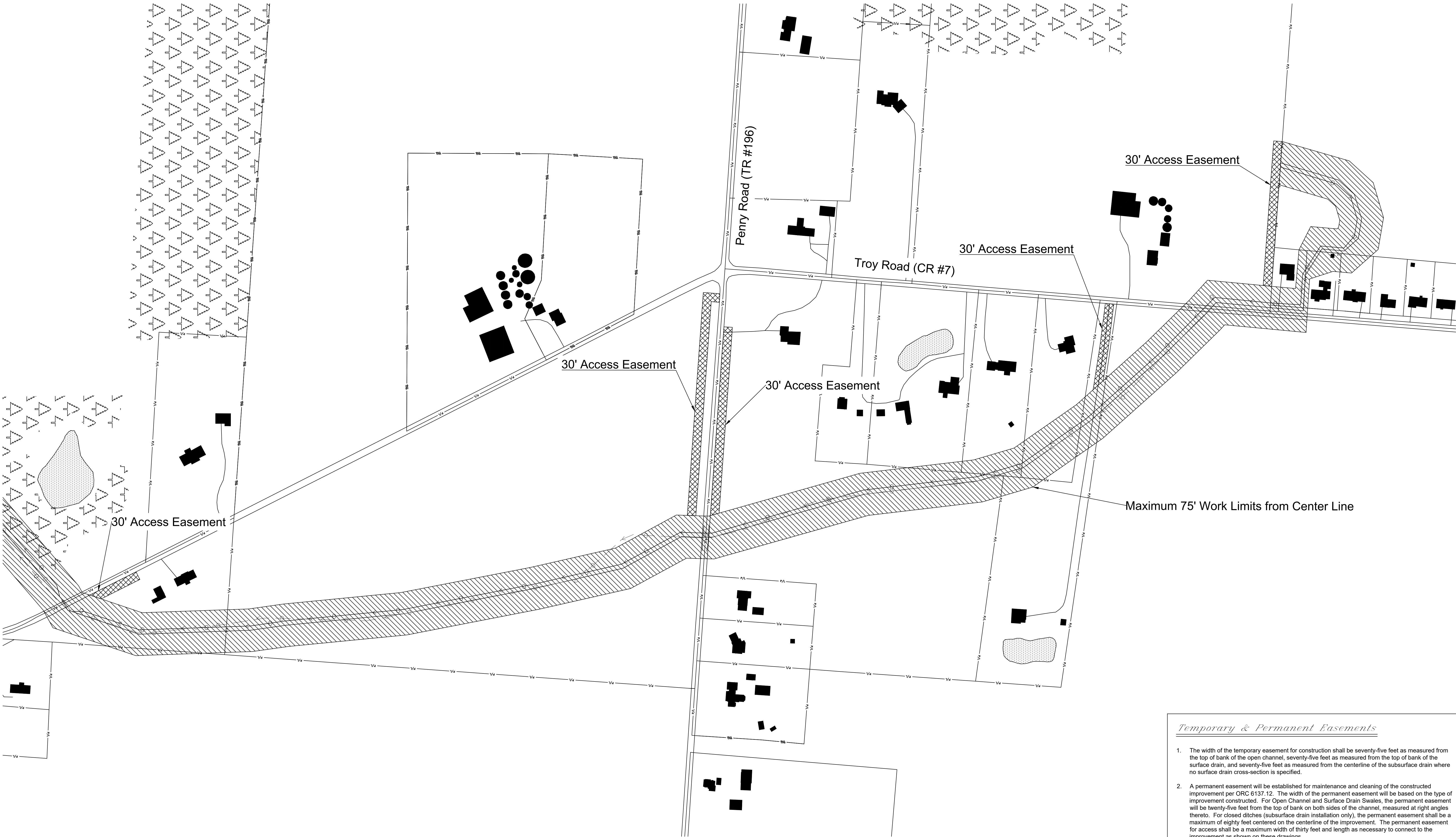
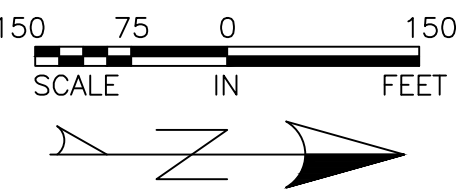
Temporary & Permanent Easements

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.



- 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.
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Temporary & Permanent Easements

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