

April 17, 2025

**ADDENDUM 1 – JOB 23758**

**TO:** All prospective bidders on Projects HEC-0003(024), Job No. 23758 scheduled for the May 9, 2025 bid opening.

The following revision(s) shall be made:

**Plan Revisions:**

See attached summary from Derek D. Pfeifer, P.E. dated April 17, 2025 for an explanation.

**Request for Proposal Revisions:**

- Remove and replace pages 5 thru 6 of 8 of the Proposal pages located at the beginning of the Request for Proposal with pages revised April 17, 2025.
- Bid Item Changes are summarized in the Plan Addendum Summary and Approval.

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> and load it into the AASHTOWare Project Bids program.



PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER

80: jwj

Enclosure

## PLAN ADDENDUM SUMMARY AND APPROVAL

| PROJECT INFORMATION      |                                                                      |                                        |
|--------------------------|----------------------------------------------------------------------|----------------------------------------|
| <b>Project:</b>          | HEC-0003(024)                                                        | <b>PCN:</b> 23758                      |
| <b>Location:</b>         | CMC 0319 2.5 miles south of Flora, thence south and east 0.653 miles |                                        |
| <b>Date:</b>             | 4/17/2025                                                            | <b>Lead Designer:</b> Jesse Brandvold  |
| <b>Bid Opening Date:</b> | 5/9/2025                                                             | <b>JOB#:</b> 23758 <b>Addendum#:</b> 1 |

| PLAN SHEET CHANGES |       |                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section            | Sheet | Description                                                                                                                                                                                                                                                                                                                                                                                |
| 1                  | 1     | - Removed SPUR Road and updated Total Miles                                                                                                                                                                                                                                                                                                                                                |
| 4                  | 1-2   | - Removed SPUR Road Grading, CL 13 Surfacing, Added Field Approaches with Pipe                                                                                                                                                                                                                                                                                                             |
| 6                  | 2     | - Revised Note 203-P05: Updated Approx. Project Borrow Quantity<br>- Removed Note 302-P02: Aggregate Surface Course CL 13                                                                                                                                                                                                                                                                  |
| 8                  | 1     | - Revised Quantities after SPUR Road Removal and Additional Field Approaches with Pipe                                                                                                                                                                                                                                                                                                     |
| 10                 | 1     | - Revised Basis of Estimate - Earthwork Table<br>- Removed Aggregate Surface Course CL 13 for SPUR Road under Basis of Estimate – Roadway<br>- Revised Basis of Estimate - Approaches                                                                                                                                                                                                      |
| 30                 | 1     | - Added Topsoil Removal & Replacement Details for Cut and Fill Sections                                                                                                                                                                                                                                                                                                                    |
| 30                 | 2     | - Removed Proposed Grading Section Typical – SPUR Road                                                                                                                                                                                                                                                                                                                                     |
| 60                 | 1     | - Added Field Approach Sta. 10+50 RT with Pipe<br>- Added Item 714-5035 Pipe Corr Steel .064IN 24 IN = 67 LF<br>- Added item 714-5820 End Sect. Corr. Steel .064IN 24IN = 2 EA                                                                                                                                                                                                             |
| 60                 | 2     | - Removed SPUR Road and Added Field Approach with revised pipe length<br>- Added Field Approach Sta. 22+70 LT with Pipe<br>- Revised Item 714-5035 Pipe Corr. Steel .064IN 24IN<br>a. Added Sta. 22+70 LT = 56 LF<br>b. Revised Sta. 22+70 RT = 78 LF<br>- Revised Item 714-5820 End Sect. Corr. Steel .064In 24 IN:<br>a. Added Sta. 22+70 LT = 56 LF<br>b. Revised Sta. 22+70 RT = 78 LF |
| 75                 | 2     | - Removed SPUR Road and Added Field Approaches                                                                                                                                                                                                                                                                                                                                             |
| 76                 | 1     | - Removed SPUR Road and Added Field Approaches<br>a. Removed Fiber Rolls and Seeding along SPUR Road<br>- Revised Item 251-0000 Temporary Cover Crop<br>- Revised Item 253-0101 Straw Mulch<br>- Revised Item 261-0112 Fiber Rolls 12IN                                                                                                                                                    |

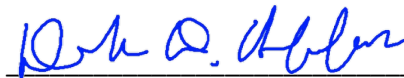
|     |      |                                                                                                                                                                                         |
|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 77  | 1    | - Removed SPUR Road and Added Field Approaches<br>a. Removed Fiber Rolls and Seeding along SPUR Road<br>- Revised Item 251-0200 Seeding Class II<br>- Revised Item 253-0101 Straw Mulch |
| 110 | 1    | - Removed R1-1 Sign and Support                                                                                                                                                         |
| 110 | 2    | - Removed R1-1 Sign Assembly Sta. 23+00 RT                                                                                                                                              |
| 200 | 1-22 | - Added Existing Subgrade line below Existing Ground Line                                                                                                                               |

| CHANGES MADE TO BID ITEMS FOR JOB |      |                                               |      |                   |                  |
|-----------------------------------|------|-----------------------------------------------|------|-------------------|------------------|
| Spec                              | Code | Description                                   | Unit | Previous Quantity | Revised Quantity |
| 203                               | 0109 | Topsoil                                       | CY   | 6240              | 5785             |
| 203                               | 0140 | Borrow-Excavation                             | CY   | 21850             | 16695            |
| 251                               | 0200 | Seeding Class II                              | ACRE | 6.4               | 5.7              |
| 251                               | 2000 | Temporary Cover Crop                          | ACRE | 6.7               | 6.0              |
| 253                               | 0101 | Straw Mulch                                   | ACRE | 6.7               | 6.0              |
| 261                               | 0112 | Fiber Rolls 12IN                              | LF   | 3806              | 2640             |
| 302                               | 0120 | Aggregate Base Course CL 5                    | TON  | 3763              | 3818             |
| 302                               | 0356 | Aggregate Surface Course CL 13                | TON  | 292               | 0                |
| 714                               | 5035 | Pipe Corr. Steel .064IN 24IN                  | LF   | 96                | 203              |
| 714                               | 5820 | End Sect. Corr. Steel .064IN 24IN             | EA   | 2                 | 6                |
| 754                               | 0110 | Flat Sheet for Signs-Type XI Refl. Sheeting   | SF   | 97                | 91               |
| 754                               | 0206 | Steel Galv. Posts-Telescoping Perforated Tube | LF   | 294               | 277              |

#### APPROVAL

Should the revisions described above be processed as a plan addendum?

X Yes                               No



Derek Pfeifer P.E. – Local Government Engineer

4/17/2025

Date

**BID ITEMS**

**Project: HEC-0003(024) (PCN-23758)**

**Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.**

| Item No. | Spec No. | Code No. | Description                | Unit  | Approx. Quantity | Unit Price |     | Amount   |    |
|----------|----------|----------|----------------------------|-------|------------------|------------|-----|----------|----|
|          |          |          |                            |       |                  | \$\$\$\$   | 000 | \$\$\$\$ | 00 |
| 001      | 103      | 0100     | CONTRACT BOND              | L SUM | 1.               |            |     |          |    |
| 002      | 203      | 0102     | COMMON EXCAVATION-TYPE B   | CY    | 5,750.           |            |     |          |    |
| 003      | 203      | 0109     | TOPSOIL                    | CY    | 5,785.           |            |     |          |    |
| 004      | 203      | 0140     | BORROW-EXCAVATION          | CY    | 16,695.          |            |     |          |    |
| 005      | 203      | 0180     | ROADWAY OBLITERATION       | LF    | 2,790.           |            |     |          |    |
| 006      | 216      | 0100     | WATER                      | M GAL | 300.             |            |     |          |    |
| 007      | 251      | 0200     | SEEDING CLASS II           | ACRE  | 5.700            |            |     |          |    |
| 008      | 251      | 1000     | WETLAND SEED               | ACRE  | .300             |            |     |          |    |
| 009      | 251      | 2000     | TEMPORARY COVER CROP       | ACRE  | 6.               |            |     |          |    |
| 010      | 253      | 0101     | STRAW MULCH                | ACRE  | 6.               |            |     |          |    |
| 011      | 261      | 0112     | FIBER ROLLS 12IN           | LF    | 2,640.           |            |     |          |    |
| 012      | 302      | 0120     | AGGREGATE BASE COURSE CL 5 | TON   | 3,818.           |            |     |          |    |
| 013      | 401      | 0050     | TACK COAT                  | GAL   | 554.             |            |     |          |    |
| 014      | 411      | 0105     | MILLING PAVEMENT SURFACE   | SY    | 12,468.          |            |     |          |    |
| 015      | 430      | 0042     | SUPERPAVE FAA 42           | TON   | 2,504.           |            |     |          |    |
| 016      | 430      | 5815     | PG 58S-34 ASPHALT CEMENT   | TON   | 163.             |            |     |          |    |

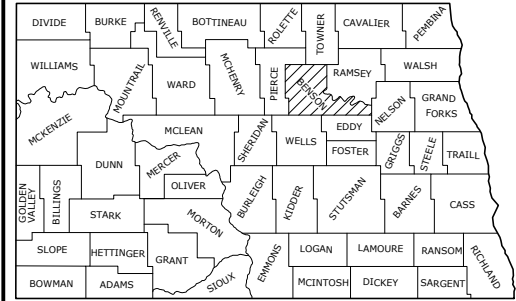
**BID ITEMS**

**Project: HEC-0003(024) (PCN-23758)**

**Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.**

| Item No. | Spec No. | Code No. | Description                                  | Unit  | Approx. Quantity | Unit Price |     | Amount   |    |
|----------|----------|----------|----------------------------------------------|-------|------------------|------------|-----|----------|----|
|          |          |          |                                              |       |                  | \$\$\$\$   | 000 | \$\$\$\$ | 00 |
| 017      | 702      | 0100     | MOBILIZATION                                 | L SUM | 1.               |            |     |          |    |
| 018      | 704      | 1000     | TRAFFIC CONTROL SIGNS                        | UNIT  | 1,316.           |            |     |          |    |
| 019      | 704      | 1052     | TYPE III BARRICADE                           | EA    | 12.              |            |     |          |    |
| 020      | 704      | 1060     | DELINEATOR DRUMS                             | EA    | 20.              |            |     |          |    |
| 021      | 704      | 1067     | TUBULAR MARKERS                              | EA    | 40.              |            |     |          |    |
| 022      | 706      | 0550     | BITUMINOUS LABORATORY                        | EA    | 1.               |            |     |          |    |
| 023      | 706      | 0600     | CONTRACTOR'S LABORATORY                      | EA    | 1.               |            |     |          |    |
| 024      | 714      | 0615     | PIPE CONC REINF 24IN CL III                  | LF    | 78.              |            |     |          |    |
| 025      | 714      | 3020     | END SECT-CONC REINF 24IN                     | EA    | 2.               |            |     |          |    |
| 026      | 714      | 5035     | PIPE CORR STEEL .064IN 24IN                  | LF    | 203.             |            |     |          |    |
| 027      | 714      | 5820     | END SECT CORR STEEL .064IN 24IN              | EA    | 6.               |            |     |          |    |
| 028      | 754      | 0110     | FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING   | SF    | 91.              |            |     |          |    |
| 029      | 754      | 0206     | STEEL GALV POSTS-TELESCOPING PERFORATED TUBE | LF    | 277.             |            |     |          |    |
| 030      | 762      | 0430     | SHORT TERM 4IN LINE-TYPE NR                  | LF    | 6,972.           |            |     |          |    |
| 031      | 762      | 1106     | PVMT MK PAINTED 6IN LINE                     | LF    | 8,863.           |            |     |          |    |
|          |          |          | <b>TOTAL SUM BID</b>                         |       |                  |            |     |          |    |

| DESIGN DATA                              |      |                         |           |             |
|------------------------------------------|------|-------------------------|-----------|-------------|
| Traffic                                  |      | Average Daily           |           | Max.Hr.     |
| Current                                  | 2019 | Pass: <750              | Trucks: - | Total: <750 |
| Forecast                                 |      | Pass:                   | Trucks:   | Total:      |
| Clear Zone Distance: -                   |      | Design Speed: 55 M.P.H. |           |             |
| Minimum Sight Dist. for Stopping: 495 FT |      |                         |           |             |
| Minimum Sight Dist. for Safe Passing: -  |      |                         |           |             |
| Sight Dist. for No Passing Zone: 900 FT  |      |                         |           |             |



JOB # 23758  
BENSON COUNTY  
NORTH DAKOTA  
FEDERAL AID PROJECT  
HEC-0003(024)  
CURVE REALIGNMENT, GRADING, HBP AND INCIDENTALS  
CMC 0319 2.5 Miles South of Flora, thence South and East 0.653 Miles

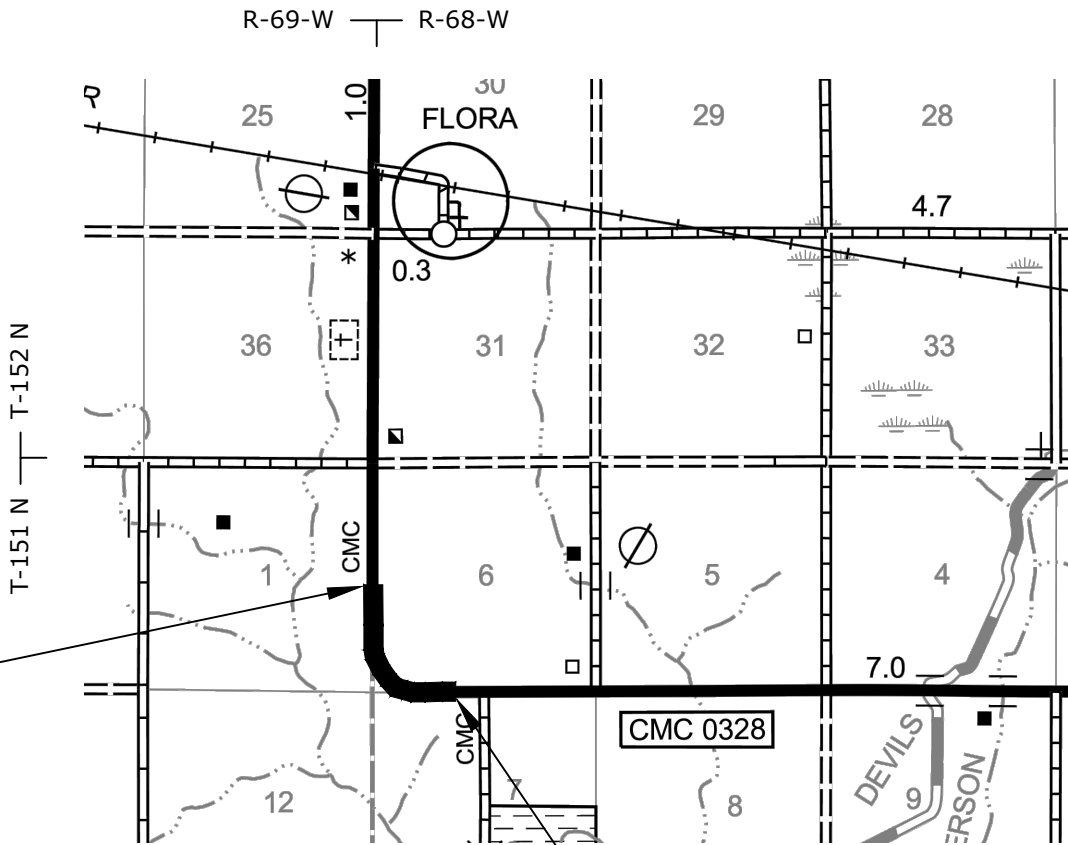
Revised 04/02/25

|        |               |       |             |           |
|--------|---------------|-------|-------------|-----------|
| STATE: | PROJECT NO.   | PCN   | SECTION NO. | SHEET NO. |
| ND     | HEC-0003(024) | 23758 | 1           | 1         |

|                             |                                                                             |
|-----------------------------|-----------------------------------------------------------------------------|
| GOVERNING SPECIFICATIONS    | Date Published and Adopted by the North Dakota Department of Transportation |
| Standard Specifications     | 7/1/2024                                                                    |
| Supplemental Specifications | NONE                                                                        |

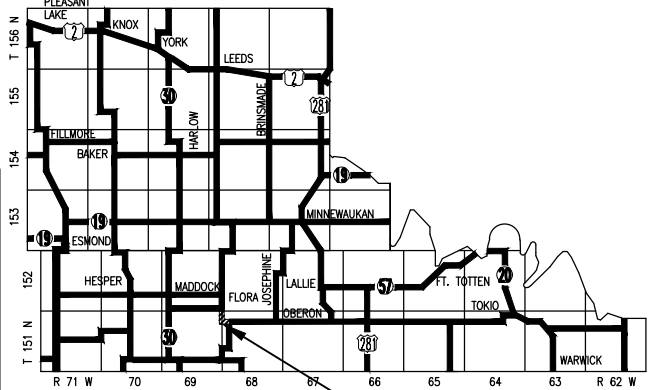
| PROJECT NUMBER \ DESCRIPTION | NET MILES | GROSS MILES |
|------------------------------|-----------|-------------|
| HEC-0003(024)                | 0.653     | 0.653       |
| Total:                       | 0.653     | 0.653       |

BEGIN PROJECT HEC-0003(024)  
STA. 5+50 = 2,089.83' NORTH OF  
NW COR. SEC. 7, TWP. 151N, RGE. 68W



END PROJECT HEC-0003(024)  
STA. 40+00 = 2,093.58' EAST OF NW  
COR. SEC. 7, TWP. 151N, RGE. 68W

SKETCH MAP OF BENSON COUNTY



PROJECT LOCATION

|                                      |
|--------------------------------------|
| DESIGNER<br>Jesse R. Brandvold P.E.  |
| DESIGNER<br>Jessica D. Tagestad P.E. |
| DESIGNER<br>Seth R. DeMontigny P.E.  |
| DESIGNER                             |



**WOLD**  
ENGINEERING, P.C.

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE 04/02/2025

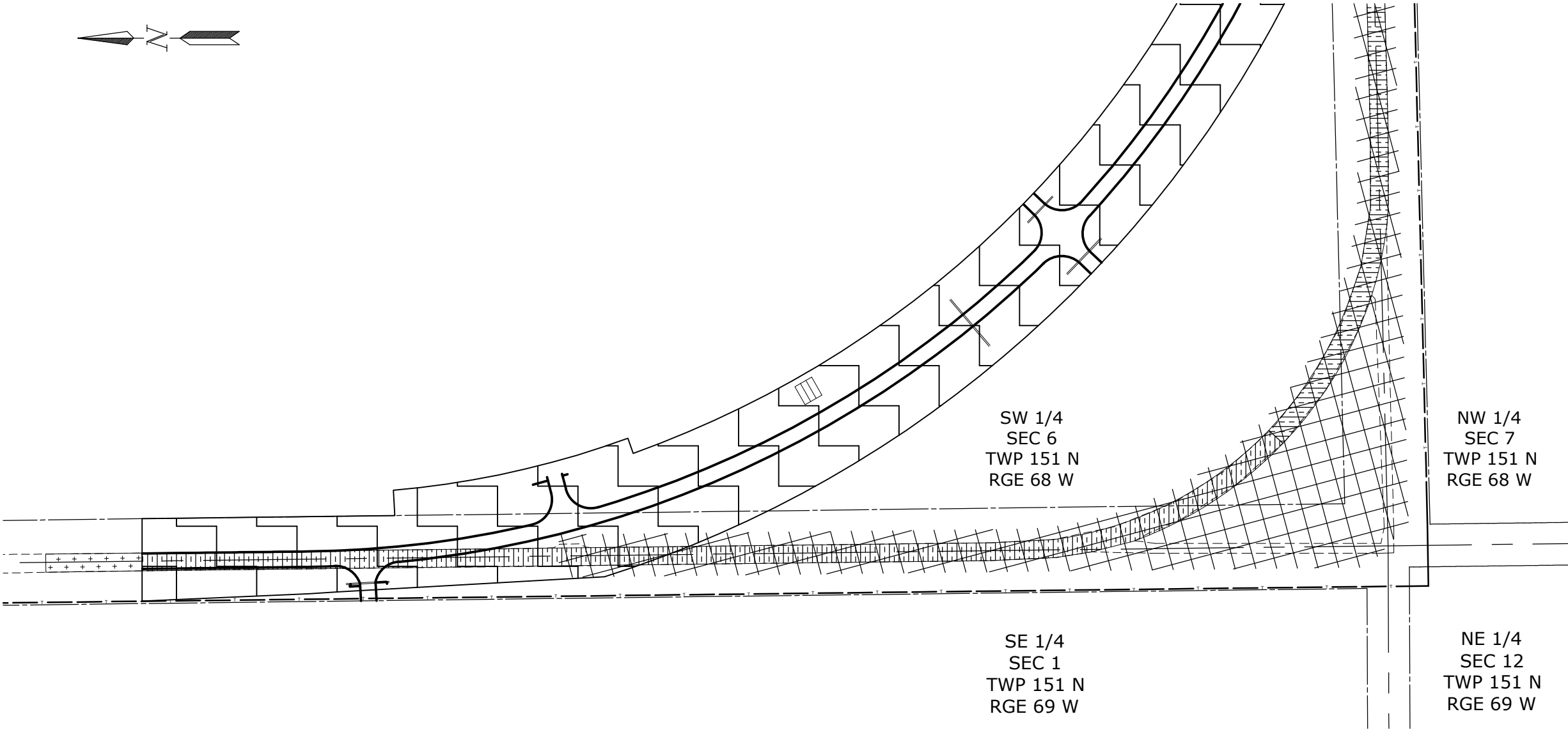
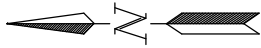
Jesse R. Brandvold, P.E. /s/

Wold Engineering, P.C.

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Revised 04/02/25

| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 4           | 1         |



LEGEND



TRANSITION MILL & 4" HMA



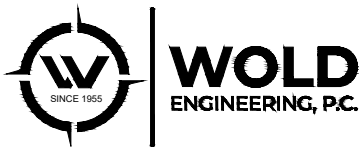
MILLING PAVEMENT SURFACE - FULL DEPTH



GRADING, 6" CL 5 AGGREGATE BASE, 4" HMA, INCIDENTALS



ROADWAY OBLITERATION

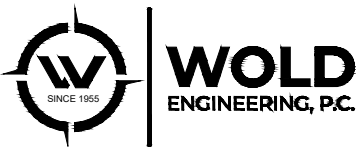
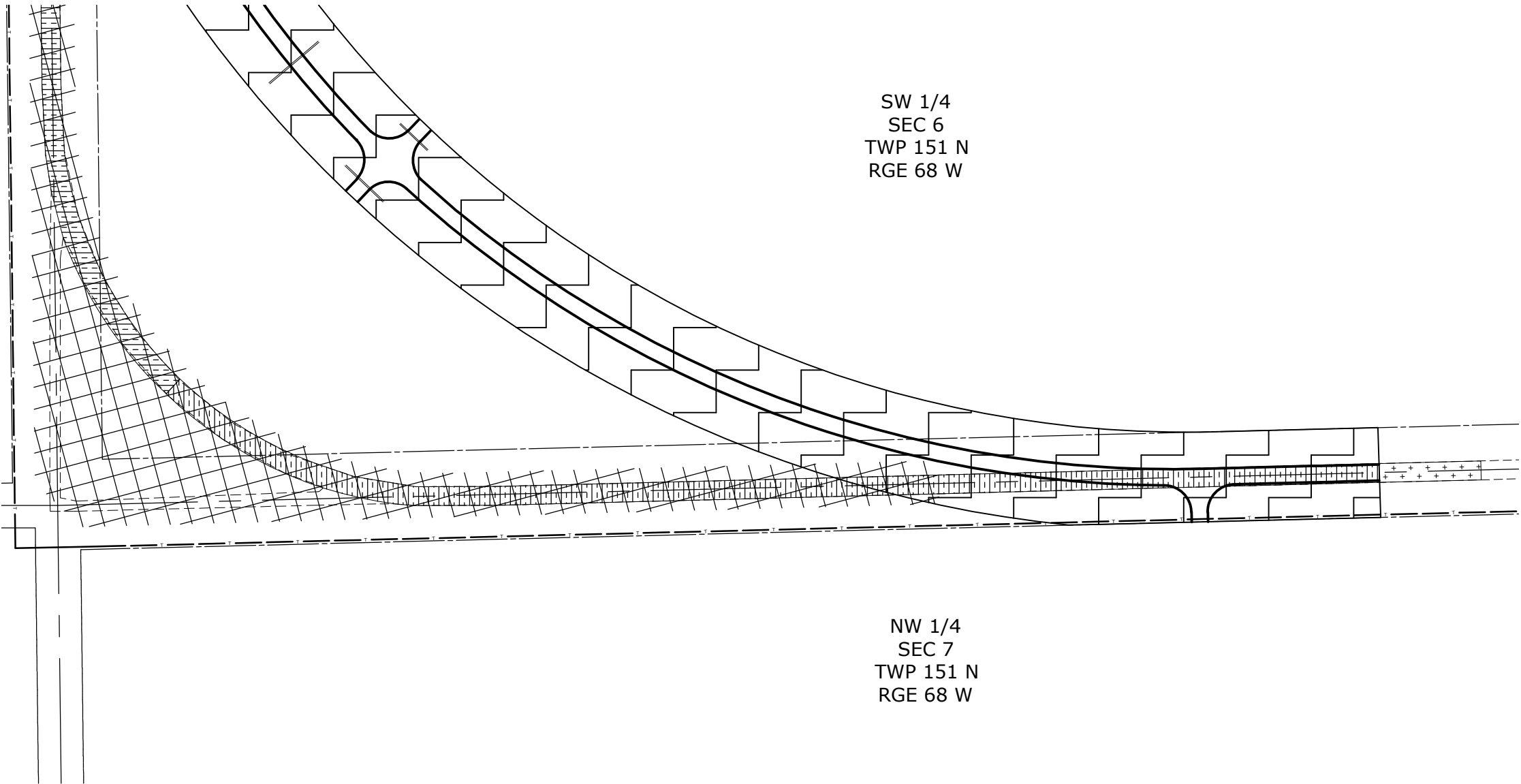


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SCOPE OF WORK  
STA. 5+50 TO STA. 25+00

Revised 04/02/25

| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 4           | 2         |



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LEGEND

-  TRANSITION MILL & 4" HMA
-  MILLING PAVEMENT SURFACE - FULL DEPTH
-  GRADING, 6" CL 5 AGGREGATE BASE, 4" HMA, INCIDENTALS
-  ROADWAY OBLITERATION

SCOPE OF WORK  
STA. 25+00 TO STA. 40+00

| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 6           | 2         |

**203-P03 COMMON EXCAVATION:** Placement of embankment material will be in accordance with Std. Specs. Sec. 203.04 G.3 (Compaction Control, Type B). Payment for Common Excavation will be contract quantity, provided the project is constructed to the lines and grades shown on the plans. Measurement will not be required unless the Engineer determines that an insufficient amount of Common Excavation has been removed or the Contractor requests measurement. The Contractor will provide written notice to the Engineer explaining the reason for measurement. Likewise, the Engineer will provide written notice to the Contractor explaining the reason for measurement. Once the Common Excavation has been measured the Contractor forfeits the contract quantity of Common Excavation and will be paid the measured quantity.

**203-P04 EMBANKMENT CONSTRUCTION:** Embankment construction will be in accordance with Std. Specs. Sec. 203.04 G.1. Compaction of the roadbed will be in accordance with Std. Specs. Sec. 203.04 G.3 Type B. The roadbed will be considered all that area lying within 32 feet of the road centerline.

Before acceptance of the mainline embankment road top and prior to the aggregate base placement, a proof roll test will be performed. The test will include the use of a loaded tandem truck, having a minimum gross weight of 50,000 lbs, being driven up and down in each driving lane. The truck should remain within 2’ to 3’ of the centerline on one pass and 2’ to 3’ of the outer edge on the other pass. The truck will be driven at 2 to 3 mph during the test. Any deflection of more than ½ inch will cause for corrective action by the Contractor at their own expense. The area corrected would then be retested for acceptance.

**203-P05 BORROW:** The Borrow quantity will be paid for by the unit price bid of “Borrow – Excavation” by the CY. The Borrow Quantity has been estimated with 30% shrinkage at an approximate total for the project of 16,695 CY. No Contract adjustment to the Unit Price of “Borrow-Excavation” by the CY will be made for any underrun or overrun of the estimated borrow quantity. It is the responsibility of the Contractor to bid the “Borrow – Excavation” quantity based on field calculations.

The Contractor will be responsible for obtaining areas to provide suitable “Borrow-Excavation” material and will bear all costs of obtaining, opening, and restoring the site. The final “Borrow-Excavation” quantity is to be determined by cross sectioning before and after removal. Compaction of embankment material will be in accordance with Std. Specs. Sec. 203.04 F. All material will be obtained from a non-wetland source and need to have archaeological clearance. All sites must have material source clearance prior to use per Std. Specs. Sec. 107.05.

Borrow quantities will be calculated by the cross-section method of the borrow areas. The Contractor will give the Engineer 5 days advanced notice prior to stripping of any Contractor-furnished borrow sites. The initial cross sectioning of the site will be done once the topsoil has been stripped. Before the topsoil has been replaced on the borrow sites, the Engineer will cross-section the borrow site to determine a borrow quantity.

**203-P06 ROADWAY OBLITERATION:** “Roadway Obliteration” includes topsoil removal and replacement, excavation, embankment construction, seeding, and mulching. Existing asphalt roadway material removal will be included in the unit bid price for “Milling Pavement Surface”. The roadway obliteration includes approximately 21,340 CY of material excavation, of which approximately 18,500 CY will be used for embankment construction. Material removed for roadway obliteration will be used for spur road and within 3 feet of the finished dirt grade of the new roadway typical section of the curve. Beyond that point, the material can only be used on the outside edge of new roadway for inslope construction. All cost associated with topsoil removal, the removal of existing roadway material, filling in existing ditches, grading, replacement of topsoil, seeding, and mulching within roadway obliteration will be included in the unit price bid for “Roadway Obliteration”.

**261-P01 FIBER ROLLS – 12IN:** Fiber Rolls – 12IN will be installed and maintained as per Std. Specs. Sec. 261.04 A. The quantities of fiber rolls shown on the plans may be increased or decreased as directed by the Engineer based on weather, Contractor operations, or actual site conditions that occur during construction of the project. Such variation in quantity will not be considered as a change in character of work.

**302-P01 AGGREGATE BASE COURSE CLASS 5 - APPROACHES:** The Class 5 Aggregate is provided if needed for base material for new approaches and fill material in approach radius and pavement ends at the discretion of the Engineer.

**411-P01 MILLING PAVEMENT SURFACE:** Mill bituminous material to a maximum size of 3/4 inch. Milled material will be stockpiled at two sites. Contractor will haul and stockpile 75% of the millings to the first site located at a pit west of Maddock, ND in the SE 1/4 of Sec. 23, Twp. 152 N, Rge. 70 W. Contractor will haul and stockpile the remaining 25% of the millings to the second sight located at the Benson County Shop in Minnewaukan, ND. All costs for labor and equipment to mill, haul, and stockpile the material will be included in the unit price bid for “Milling Pavement Surface”.



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Bottineau, North Dakota

| Estimated Quantities |      |                                              |       |          | Revised 04/02/25 | STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|----------------------|------|----------------------------------------------|-------|----------|------------------|-------|---------------|-------------|-----------|
|                      |      |                                              |       |          |                  | ND    | HEC-0003(024) | 8           | 1         |
| SPEC                 | CODE | ITEM DESCRIPTION                             | UNIT  | Mainline | Approaches       |       | TOTAL         |             |           |
| 103                  | 0100 | CONTRACT BOND                                | L SUM | 1        |                  |       | 1             |             |           |
| 203                  | 0102 | COMMON EXCAVATION-TYPE B                     | CY    | 5750     |                  |       | 5750          |             |           |
| 203                  | 0109 | TOPSOIL                                      | CY    | 5785     |                  |       | 5785          |             |           |
| 203                  | 0140 | BORROW-EXCAVATION                            | CY    | 16695    |                  |       | 16695         |             |           |
| 203                  | 0180 | ROADWAY OBLITERATION                         | LF    | 2790     |                  |       | 2790          |             |           |
| 216                  | 0100 | WATER                                        | M GAL | 300      |                  |       | 300           |             |           |
| 251                  | 0200 | SEEDING CLASS II                             | ACRE  | 5.7      |                  |       | 5.7           |             |           |
| 251                  | 1000 | WETLAND SEED                                 | ACRE  | 0.3      |                  |       | 0.3           |             |           |
| 251                  | 2000 | TEMPORARY COVER CROP                         | ACRE  | 6        |                  |       | 6             |             |           |
| 253                  | 0101 | STRAW MULCH                                  | ACRE  | 6        |                  |       | 6             |             |           |
| 261                  | 0112 | FIBER ROLLS 12IN                             | LF    | 2640     |                  |       | 2640          |             |           |
| 302                  | 0120 | AGGREGATE BASE COURSE CL 5                   | TON   | 3718     | 100              |       | 3818          |             |           |
| 401                  | 0050 | TACK COAT                                    | GAL   | 540      | 14               |       | 554           |             |           |
| 411                  | 0105 | MILLING PAVEMENT SURFACE                     | SY    | 12468    |                  |       | 12468         |             |           |
| 430                  | 0042 | SUPERPAVE FAA 42                             | TON   | 2444     | 60               |       | 2504          |             |           |
| 430                  | 5815 | PG 58S-34 ASPHALT CEMENT                     | TON   | 159      | 4                |       | 163           |             |           |
| 702                  | 0100 | MOBILIZATION                                 | L SUM | 1        |                  |       | 1             |             |           |
| 704                  | 1000 | TRAFFIC CONTROL SIGNS                        | UNIT  | 1316     |                  |       | 1316          |             |           |
| 704                  | 1052 | TYPE III BARRICADE                           | EA    | 12       |                  |       | 12            |             |           |
| 704                  | 1060 | DELINEATOR DRUMS                             | EA    | 20       |                  |       | 20            |             |           |
| 704                  | 1067 | TUBULAR MARKERS                              | EA    | 40       |                  |       | 40            |             |           |
| 706                  | 0550 | BITUMINOUS LABORATORY                        | EA    | 1        |                  |       | 1             |             |           |
| 706                  | 0600 | CONTRACTOR'S LABORATORY                      | EA    | 1        |                  |       | 1             |             |           |
| 714                  | 0615 | PIPE CONC REINF 24IN CL III                  | LF    | 78       |                  |       | 78            |             |           |
| 714                  | 3020 | END SECT-CONC REINF 24IN                     | EA    | 2        |                  |       | 2             |             |           |
| 714                  | 5035 | PIPE CORR STEEL .064IN 24IN                  | LF    |          | 203              |       | 203           |             |           |
| 714                  | 5820 | END SECT CORR STEEL .064IN 24IN              | EA    |          | 6                |       | 6             |             |           |
| 754                  | 0110 | FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING   | SF    | 91       |                  |       | 91            |             |           |
| 754                  | 0206 | STEEL GALV POSTS-TELESCOPING PERFORATED TUBE | LF    | 277      |                  |       | 277           |             |           |
| 762                  | 0430 | SHORT TERM 4IN LINE-TYPE NR                  | LF    | 6972     |                  |       | 6972          |             |           |
| 762                  | 1106 | PVMT MK PAINTED 6IN LINE                     | LF    | 8863     |                  |       | 8863          |             |           |

|       |               |             |           |
|-------|---------------|-------------|-----------|
| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
| ND    | HEC-0003(024) | 10          | 1         |

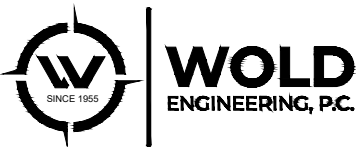
| BASIS OF ESTIMATE - ROADWAY          |       |      |                                                                              |
|--------------------------------------|-------|------|------------------------------------------------------------------------------|
| Sta. 7+00 to Sta. 38+50 (.597 Miles) |       |      |                                                                              |
| QUANTITY PER MILE                    | WIDTH | UNIT | DESCRIPTION                                                                  |
| 2,021                                | 30'   | TON  | SUPERPAVE FAA 42 HOT BITUMINOUS PAVEMENT AT 2.0 TON/CY (2" - BASE COURSE)    |
| 132                                  | 30'   | TON  | PG 58S-34 ASPHALT CEMENT FOR SUPERPAVE FAA 42 AT 6.5% (2" - BASE COURSE)     |
| 821                                  | 30'   | GAL  | EMULSIFIED ASPHALT FOR TACK COAT AT 0.05 GAL/SY (SURFACE COURSE)             |
| 1,891                                | 28'   | TON  | SUPERPAVE FAA 42 HOT BITUMINOUS PAVEMENT AT 2.0 TON/CY (2" - SURFACE COURSE) |
| 123                                  | 28'   | TON  | PG 58S-34 ASPHALT CEMENT FOR SUPERPAVE FAA 42 AT 6.5% (2" - SURFACE COURSE)  |
| 6,234                                | 32'   | TON  | AGGREGATE BASE COURSE, CL 5 AT 1.5 TON/CY + 25% (6" BASE COURSE)             |
| 50                                   | 32'   | MGAL | WATER FOR AGGREGATE BASE COURSE                                              |
| VARIES                               | -     | MGAL | WATER FOR EMBANKMENT @ 5 GAL/CY                                              |

| BASIS OF ESTIMATE - MILLING                     |       |        |          |
|-------------------------------------------------|-------|--------|----------|
| DESCRIPTION                                     | WIDTH | UNIT   | QUANTITY |
| STA. 5+50 TO 7+00 - 2" TO 4" TRANSITION @ BOP   | 26'   | SY     | 434      |
| STA. 38+50 TO 40+00 - 2" TO 4" TRANSITION @ EOP | 26'   | SY     | 434      |
| FULL DEPTH MILL EXISTING ROAD = 3,600 LF        | 29'   | SY     | 11,600   |
|                                                 |       | TOTAL: | 12,468   |

| BASIS OF ESTIMATE - PAVEMENT MARKING                              |   |          |  |
|-------------------------------------------------------------------|---|----------|--|
| PAVEMENT MARKING PAINTED LINE (PERMANENT)                         |   |          |  |
| CENTERLINE: 6" YELLOW, 10 FT. LINES, 30 FT. SKIP    1,320 LF/MILE |   |          |  |
| BARRIER LINES: 6" YELLOW 4" BETWEEN LINES                         |   |          |  |
| EDGE LINE: 6" WHITE    10,560 LF/MILE                             |   |          |  |
| NPZ:                                                              |   |          |  |
| STA. 29+00 TO STA. 34+00 RT                                       | = | 500 LF   |  |
| STA. 34+00 TO STA. 40+00 LT                                       | = | 600 LF   |  |
|                                                                   |   |          |  |
| SHORT TERM 4IN LINE-TYPE NR:                                      |   |          |  |
| BROKEN LINE:                                                      |   | 863 LF   |  |
| NPZ:                                                              |   | 1,100 LF |  |
| TOTAL:                                                            |   | 6,972 LF |  |
| PVMT MK PAINTED 6IN LINE:                                         |   |          |  |
| BROKEN LINE:                                                      |   | 863 LF   |  |
| NPZ:                                                              |   | 1,100 LF |  |
| EDGE LINE:                                                        |   | 6,900 LF |  |
| TOTAL:                                                            |   | 8,863 LF |  |
|                                                                   |   |          |  |

| BASIS OF ESTIMATE - EARTHWORK TABLE |                                |                 |                         |              |
|-------------------------------------|--------------------------------|-----------------|-------------------------|--------------|
| ROADWAY OBLITERATION (CY)           | COMMON EXCAVATION- TYPE B (CY) | EMBANKMENT (CY) | BORROW- EXCAVATION (CY) | TOPSOIL (CY) |
| A                                   | B                              | C               | D = C-(A+B)             | E            |
| 18,500                              | 5,750                          | 40,945          | 16,695                  | 5,785        |

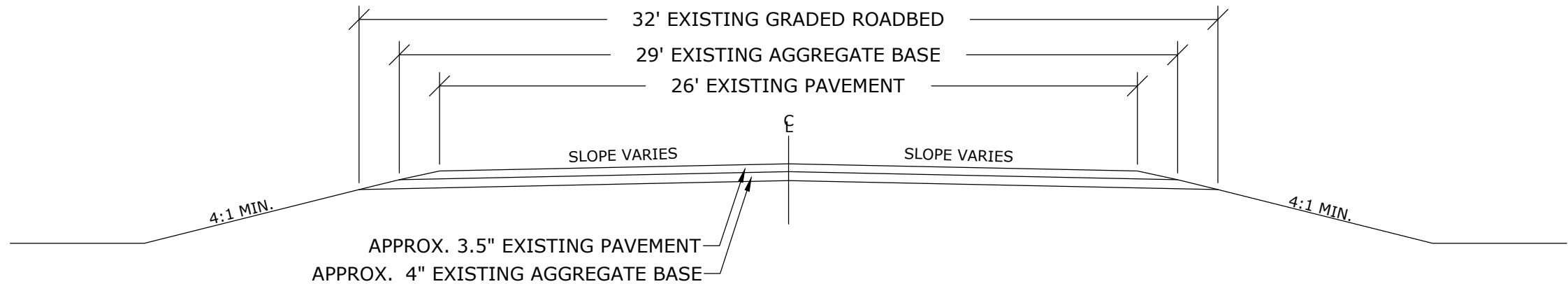
| BASIS OF ESTIMATE - APPROACHES |      |              |       |       |
|--------------------------------|------|--------------|-------|-------|
| DESCRIPTION                    | UNIT | SECTION LINE | FIELD | TOTAL |
| NUMBER OF LOCATIONS            | #    | 0            | 4     | 4     |
| AGGREGATE BASE COURSE CL 5     | TON  | 50           | 25    | 100   |
| TACK COAT                      | GAL  | 10           | 2     | 8     |
| SUPERPAVE FAA 42               | TON  | 30           | 15    | 60    |
| PG 58S-34 ASPHALT CEMENT       | TON  | 2            | 1     | 4     |



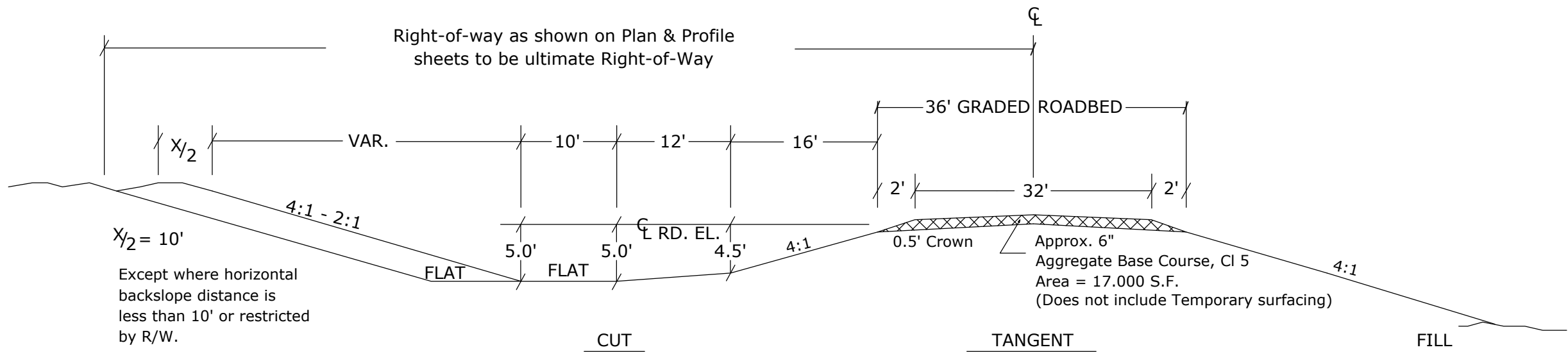
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BASIS OF ESTIMATE

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|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 30          | 1         |



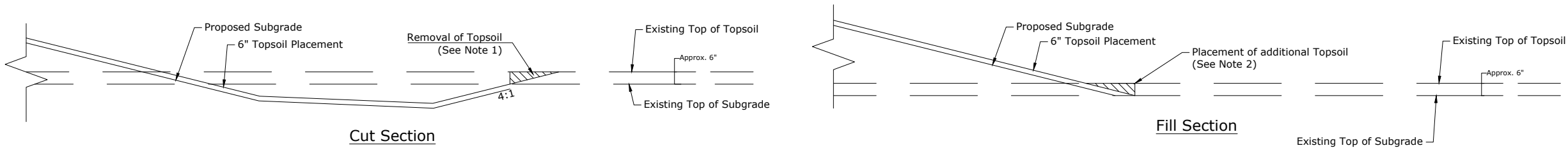
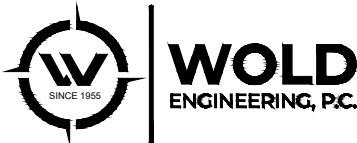
EXISTING TYPICAL SECTION



$X_{1/2} = 10'$   
Except where horizontal  
backslope distance is  
less than 10' or restricted  
by R/W.

NO SCALE

TYPICAL GRADING SECTION  
STA. 7+00 TO STA. 38+50



NOTES:  
1. The Contractor shall continue the backslope as shown. This quantity of topsoil removal is not included in plan quantities but shall be incidental in the bid price for "Topsoil".

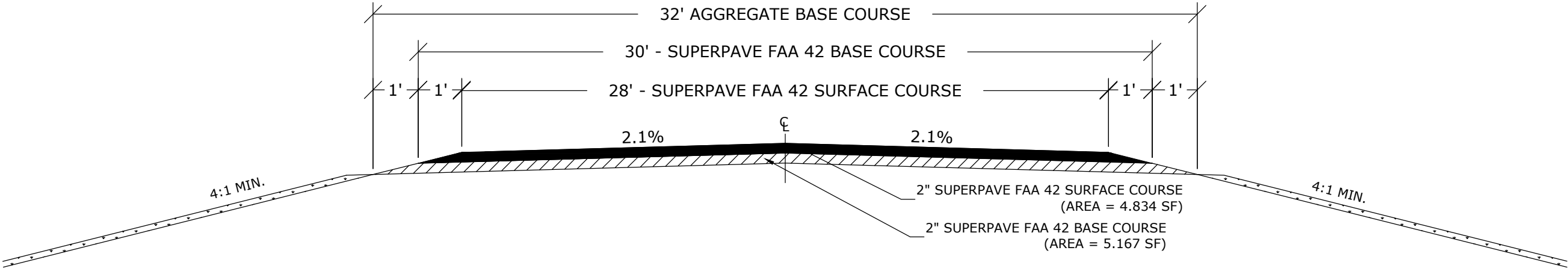
NOTES:  
2. The Contractor shall backfill the inslope of the subgrade with topsoil as shown to maintain positive drainage away from the inslope. All costs to complete this work shall be included in the bid price for "Topsoil".

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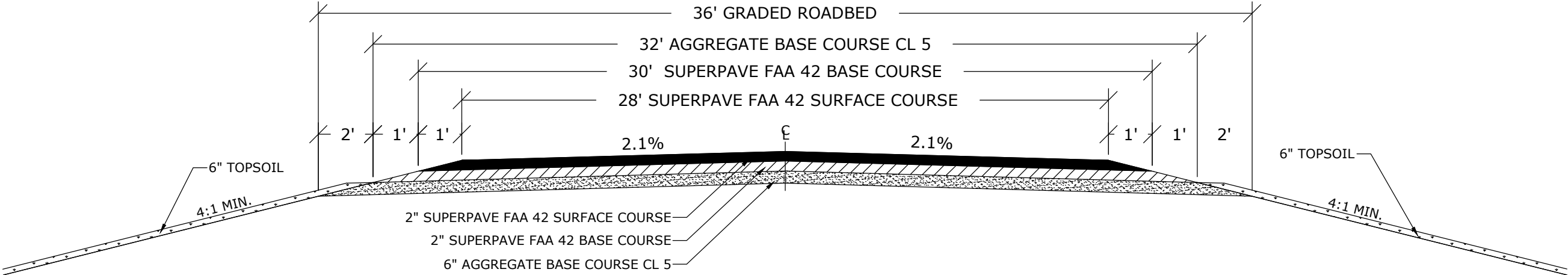
TYPICAL SECTIONS

Revised 04/02/25

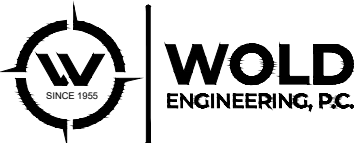
| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 30          | 2         |



PROPOSED PAVING SECTION



ULTIMATE TYPICAL SECTION



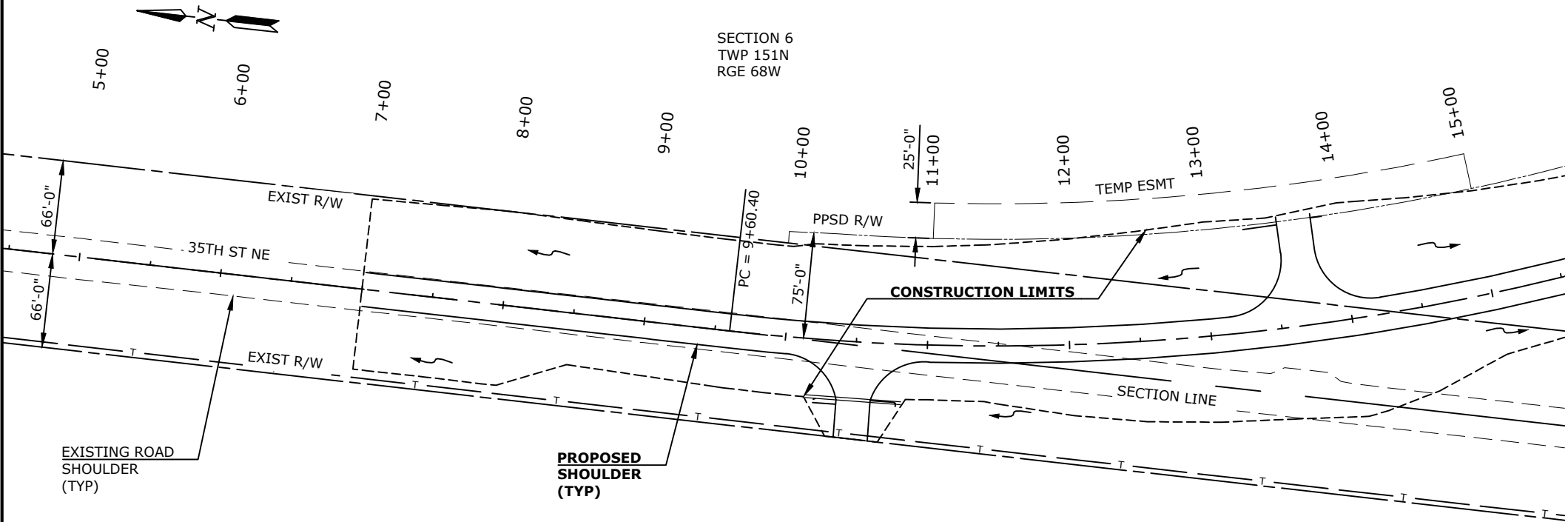
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TYPICAL SECTIONS

Revised 04/02/25

| STATE | PROJECT NO.  | SECTION NO. | SHEET NO. |
|-------|--------------|-------------|-----------|
| ND    | HEC-0003(24) | 60          | 1         |

| SPEC CODE                       | BID ITEM                        | QTY | UNIT |
|---------------------------------|---------------------------------|-----|------|
| 302 0120                        | AGGREGATE BASE COURSE CL 5      |     |      |
| STA. 10+00 TO 15+00 - 32' Width |                                 | 590 | TON  |
| 714 5035                        | PIPE CORR STEEL .064IN 24IN     |     |      |
| STA. 10+50 - 50' RT             |                                 | 67  | LF   |
| 714 5820                        | END SECT CORR STEEL .064IN 24IN |     |      |
| STA. 10+50 - 50' RT             |                                 | 2   | EA   |

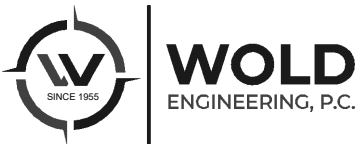
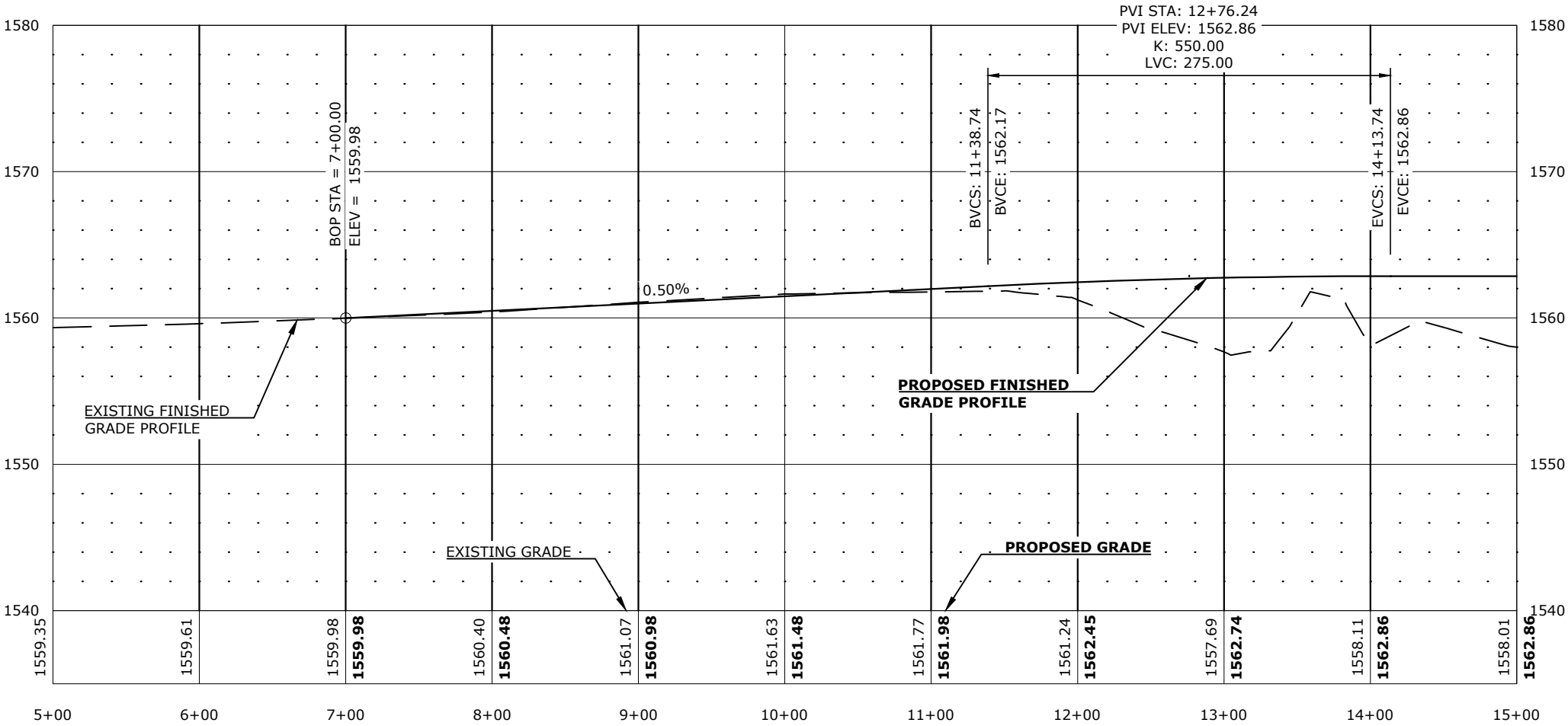


SCALES:  
H: 1" = 100'  
V: 1" = 10'

SECTION 1  
TWP 151N  
RGE 69W

STA. 10+50 RT  
FIELD APPROACH  
200 CY PROVIDED

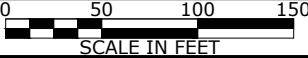
STA. 13+60 LT  
FIELD APPROACH  
660 CY PROVIDED



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PLAN & PROFILE  
STA. 7+00 TO 15+00

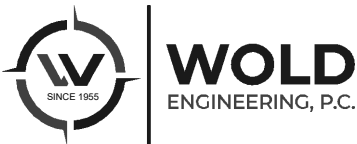
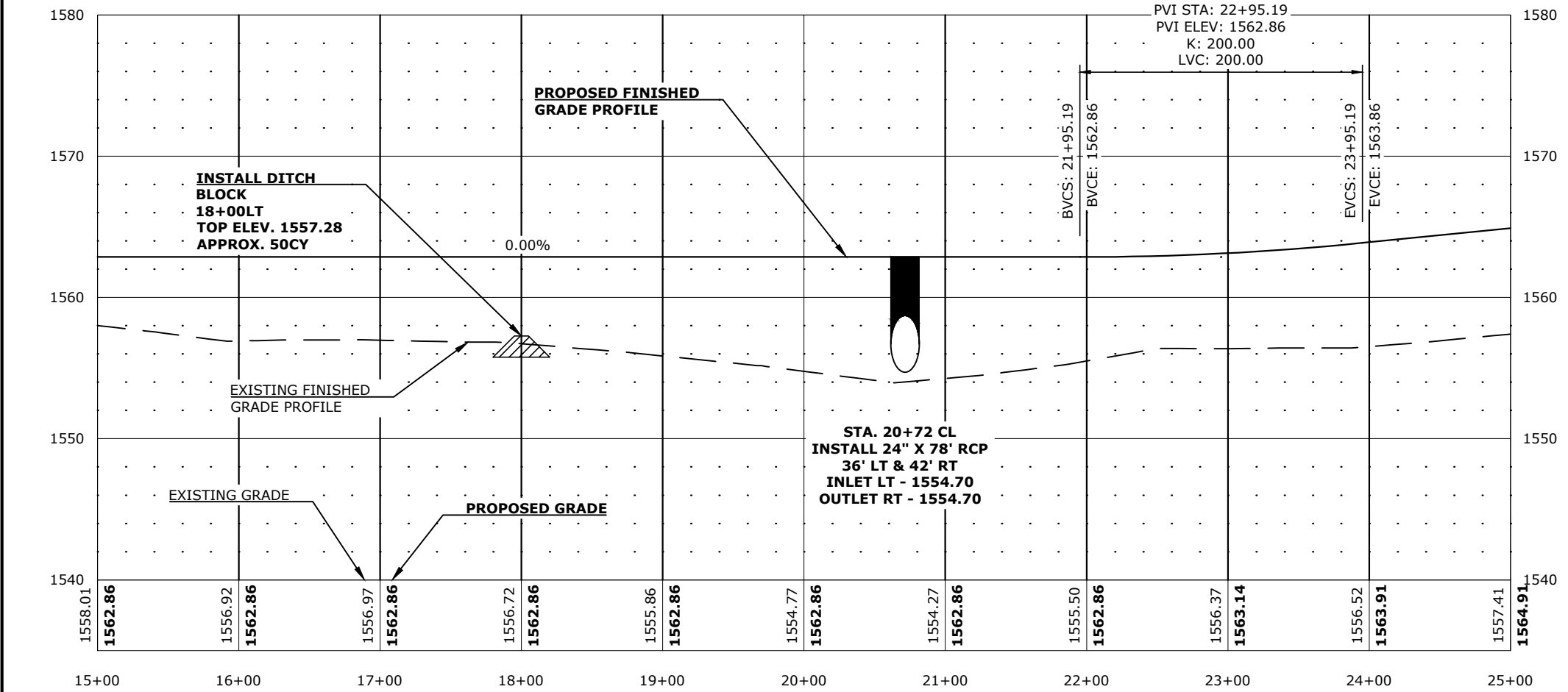
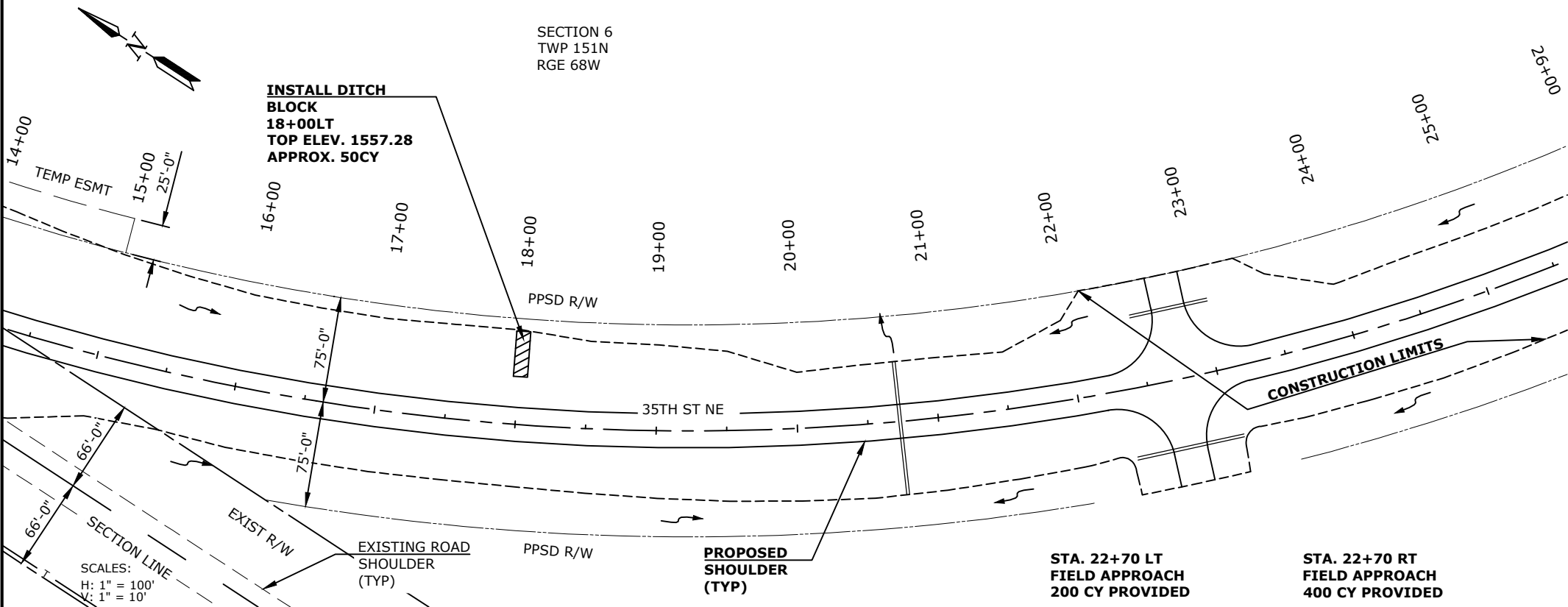
FILE:  
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| STATE | PROJECT NO.  | SECTION NO. | SHEET NO. |
|-------|--------------|-------------|-----------|
| ND    | HEC-0003(24) | 60          | 2         |

| SPEC CODE                       | BID ITEM                        | QTY   | UNIT |
|---------------------------------|---------------------------------|-------|------|
| 302 0120                        | AGGREGATE BASE COURSE CL 5      |       |      |
| STA. 15+00 TO 25+00 - 32' Width |                                 | 1,181 | TON  |
| 714 0615                        | PIPE CONC REINF 24IN CL III     |       |      |
| STA. 20+72 CL                   |                                 | 78    | LF   |
| 714 3020                        | END SECT-CONC REINF 24IN        |       |      |
| STA. 20+72 CL                   |                                 | 2     | EA   |
| 714 5035                        | PIPE CORR STEEL .064IN 24IN     |       |      |
| STA. 22+70 - 55' LT             |                                 | 56    | LF   |
| STA. 22+70 - 55' RT             |                                 | 78    | LF   |
| 714 5820                        | END SECT CORR STEEL .064IN 24IN |       |      |
| STA. 22+70 - 55' RT             |                                 | 2     | EA   |
| STA. 22+70 - 55' RT             |                                 | 2     | EA   |

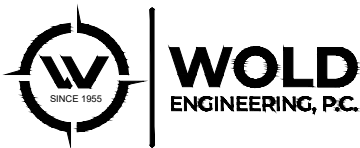
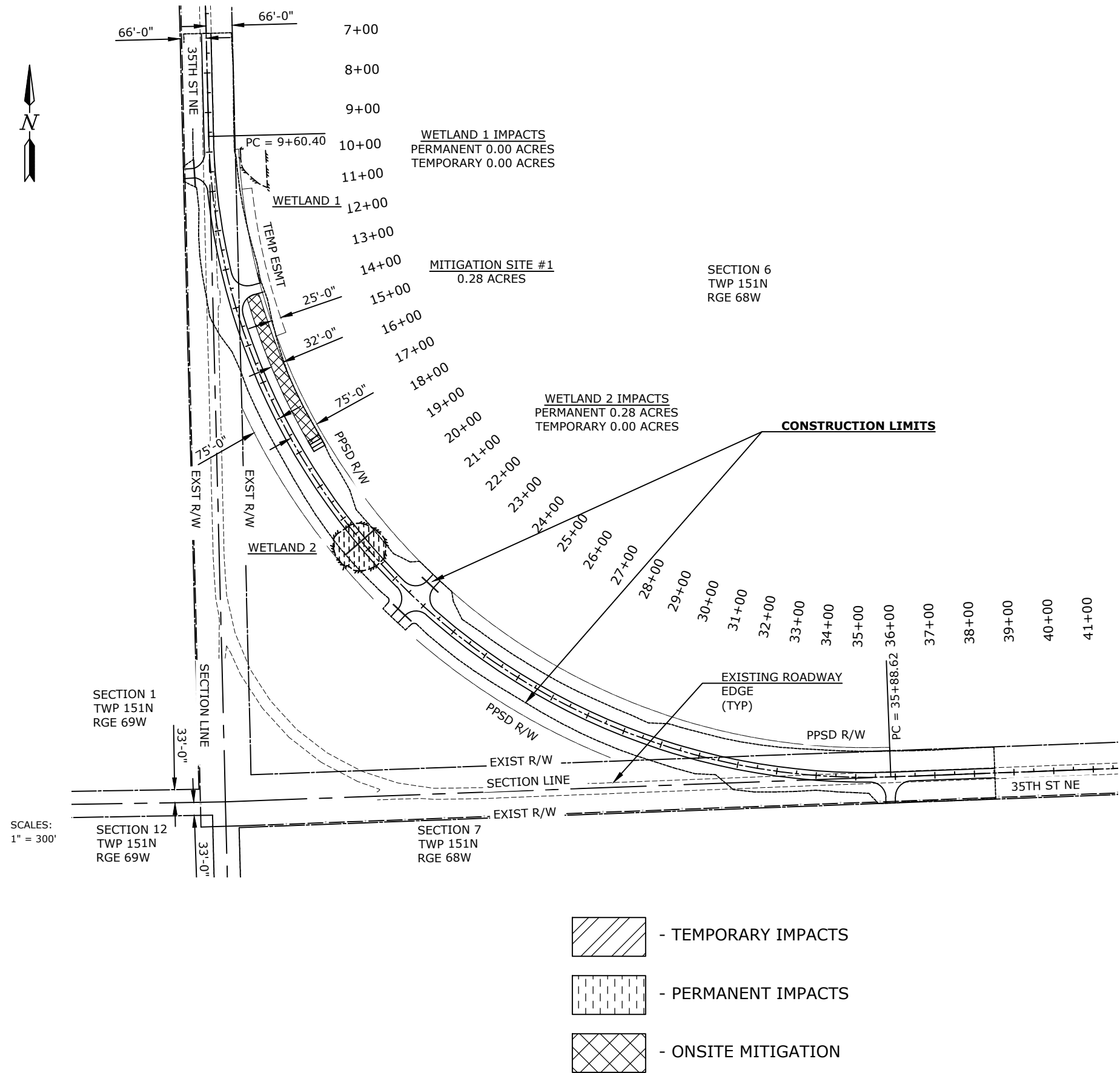


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PLAN & PROFILE  
STA. 15+00 TO 25+00

Revised 04/02/25

| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 75          | 2         |



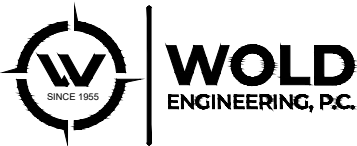
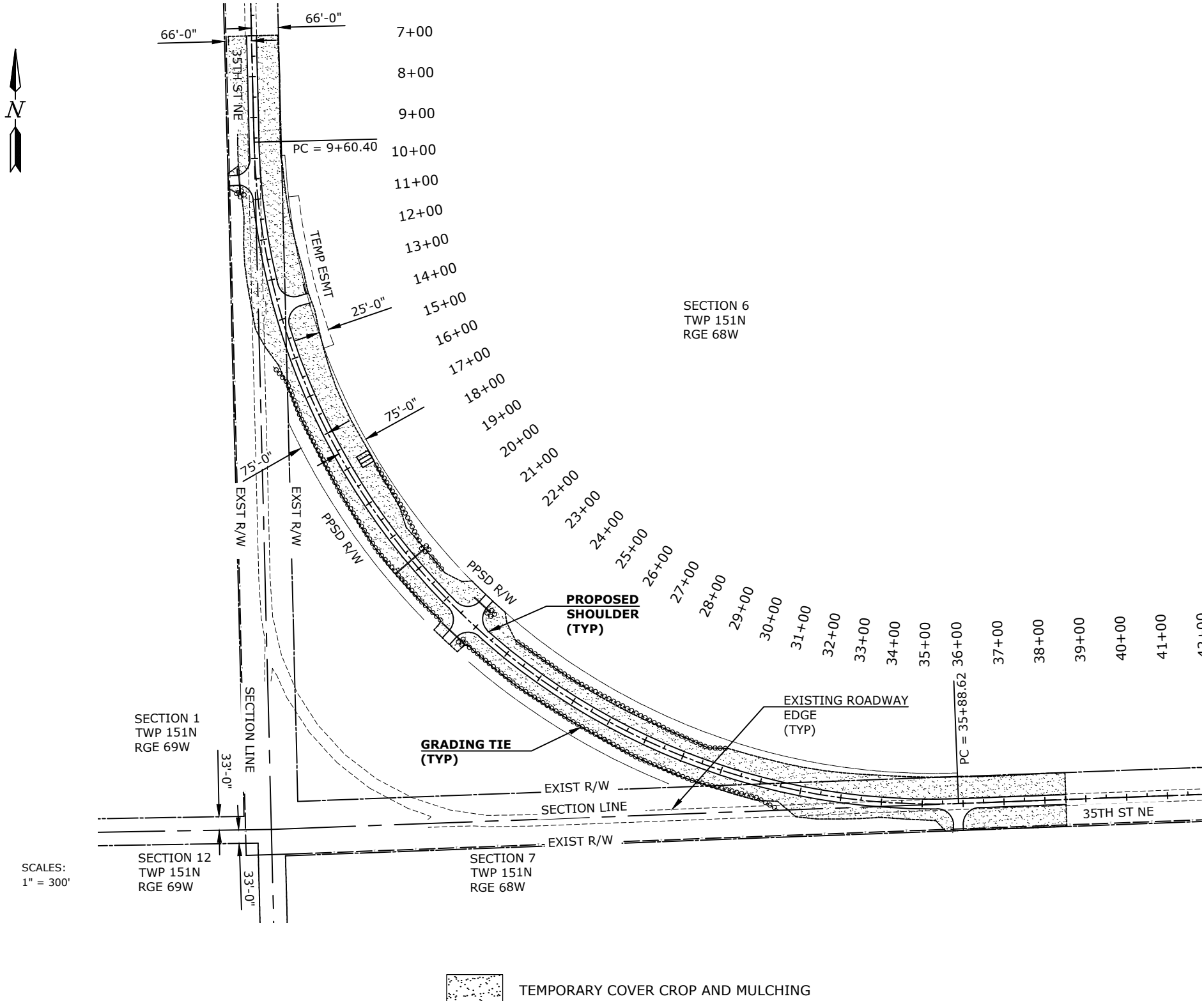
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WETLAND IMPACTS

Revised 04/02/25

| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 76          | 1         |

| SPEC CODE | BID ITEM               | QTY | UNIT |
|-----------|------------------------|-----|------|
| 251 0000  | TEMPORARY COVER CROP   |     |      |
|           | STA. 7+00 TO 38+50 LT  | 3.3 | ACRE |
|           | STA. 7+00 TO 38+50 RT  | 2.7 | ACRE |
| 253 0101  | STRAW MULCH            |     |      |
|           | STA. 7+00 TO 38+50 LT  | 3.3 | ACRE |
|           | STA. 7+00 TO 38+50 RT  | 2.7 | ACRE |
| 261 0112  | FIBER ROLLS 12 IN      |     |      |
|           | STA. 15+00 TO 22+50 RT | 755 | LF   |
|           | STA. 18+00 TO 21+50 LT | 350 | LF   |
|           | STA. 23+00 TO 31+50 RT | 875 | LF   |
|           | STA. 24+00 TO 30+00 LT | 600 | LF   |



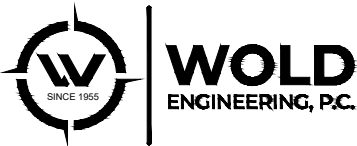
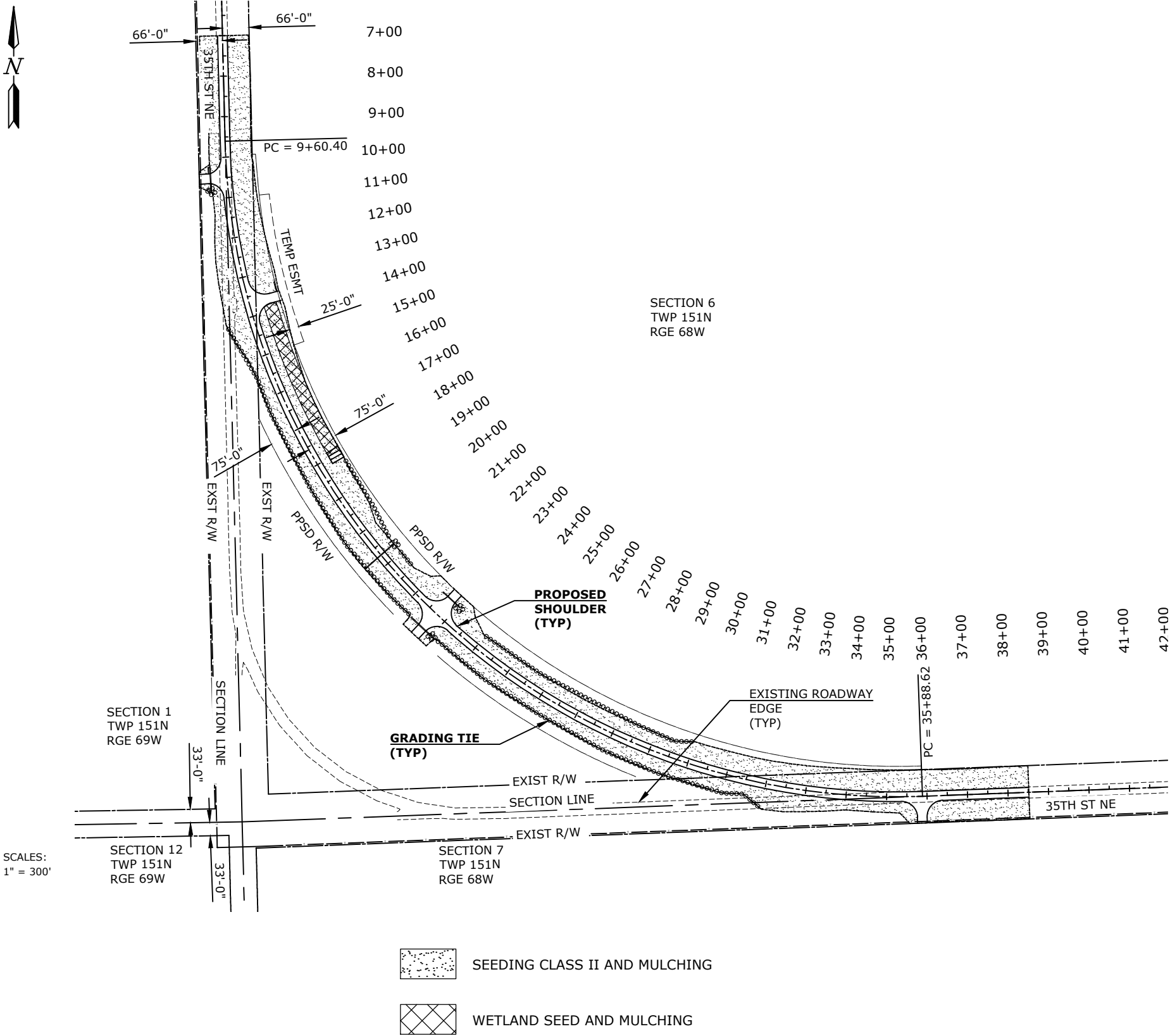
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TEMPORARY EROSION CONTROL  
STA. 7+00 TO 38+50

Revised 04/02/25

| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
| ND    | HEC-0003(024) | 77          | 1         |

| SPEC CODE | BID ITEM               | QTY | UNIT |
|-----------|------------------------|-----|------|
| 251 0200  | SEEDING CLASS II       |     |      |
|           | STA. 7+00 TO 38+50 LT  | 3.0 | ACRE |
|           | STA. 7+00 TO 38+50 RT  | 2.7 | ACRE |
| 251 1000  | WETLAND SEED           |     |      |
|           | STA. 14+00 TO 18+00 LT | 0.3 | ACRE |
| 253 0101  | STRAW MULCH            |     |      |
|           | STA. 7+00 TO 38+50 LT  | 3.3 | ACRE |
|           | STA. 7+00 TO 38+50 RT  | 2.7 | ACRE |



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PERMANENT EROSION CONTROL  
STA. 7+00 TO 38+50

|                                  |             |              |                      |       |                     |        |        |        |                     |                   |              |               |        |        |        |             |           | Revised 04/02/25                                                                                                                                                                                                       | STATE             | PROJECT NO.         |                                 |               | SECTION NO. | SHEET NO. |
|----------------------------------|-------------|--------------|----------------------|-------|---------------------|--------|--------|--------|---------------------|-------------------|--------------|---------------|--------|--------|--------|-------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|---------------------------------|---------------|-------------|-----------|
|                                  |             |              |                      |       |                     |        |        |        |                     |                   |              |               |        |        |        |             |           |                                                                                                                                                                                                                        | N.D.              | HEC-0003(024)       |                                 |               | 110         | 1         |
| Station / RP                     | Sign No.    | Assembly No. | Flat Sheet For Signs |       | Sign Support Length |        |        |        | Vert Clear-<br>ance | Support Size      | Max Post Len | Sleeve Length |        |        |        | Sleeve Size | Anchor EA | Anchor LF                                                                                                                                                                                                              | Anchor Size       | Reset Sign Panel EA | Reset Sign Support EA           | Break-Away EA | Comments    |           |
|                                  |             |              | IV SF                | XI SF | 1st LF              | 2nd LF | 3rd LF | 4th LF | FT                  |                   | LF           | 1st LF        | 2nd LF | 3rd LF | 4th LF |             |           |                                                                                                                                                                                                                        |                   |                     |                                 |               |             |           |
| Sta. 6+35 Rt                     | W1-2L       | 19           |                      | 6.3   | 13.2                |        |        |        | 5.0                 | 2.5 x 2.5 12 ga   | 14.6         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 3 x 3 7 ga        |                     |                                 |               |             |           |
| Sta. 9+60 Rt                     | Chevron     | 8            |                      | 3.0   | 12.1                |        |        |        | 5.0                 | 2 x 2 12 ga       | 14.6         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.25 x 2.25 12 ga |                     |                                 |               |             |           |
| Sta. 11+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 13+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 15+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 17+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 19+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 21+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 23+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 25+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 27+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 29+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 31+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 33+60 Rt                    | Chevron Dbl |              |                      | 6.0   | 12.1                |        |        |        | 5.0                 | 2.25 x 2.25 12 ga | 12.4         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.5 x 2.5 12 ga   |                     |                                 |               |             |           |
| Sta. 35+45 Rt                    | Chevron     | 8            |                      | 3.0   | 12.1                |        |        |        | 5.0                 | 2 x 2 12 ga       | 14.6         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 2.25 x 2.25 12 ga |                     |                                 |               |             |           |
| Sta. 39+10 Lt                    | W1-2R       | 19           |                      | 6.3   | 13.2                |        |        |        | 5.0                 | 2.5 x 2.5 12 ga   | 14.6         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 3 x 3 7 ga        |                     |                                 |               |             |           |
| Sta. 37+75 Rt                    | M1-6/M6-1   | 371          |                      |       | 13.1                |        |        |        | 5.0                 | 2.5 x 2.5 12 ga   | 16.2         |               |        |        |        |             | 1         | 4                                                                                                                                                                                                                      | 3 x 3 7 ga        | 2                   |                                 |               |             |           |
| Sub Total                        |             |              | 0.0                  | 90.6  | Total               | 208.5  |        |        |                     |                   |              |               |        |        |        | Total       | 68.0      |                                                                                                                                                                                                                        | 2                 | 0                   | 0                               |               |             |           |
| Grand Total                      |             |              | 0.0                  | 90.6  | Total               | 208.5  |        |        |                     |                   |              |               |        |        |        | Total       | 68        | 0                                                                                                                                                                                                                      | 2                 | 0                   | 0                               |               |             |           |
|                                  |             |              |                      |       |                     |        |        |        |                     |                   |              |               |        |        |        |             |           | This document was originally issued and sealed by<br>Jesse R. Brandvold,<br>Registration Number<br>PE-40107<br>on 04/02/25 and the original document is stored at<br>Wold Engineering, P.C.<br>Bottineau, North Dakota |                   |                     | Sign Summary<br>Perforated Tube |               |             |           |
| 4/2/25 11:05:01AM<br>Page 1 of 1 |             |              |                      |       |                     |        |        |        |                     |                   |              |               |        |        |        |             |           |                                                                                                                                                                                                                        |                   |                     |                                 |               |             |           |

Revised 04/02/25

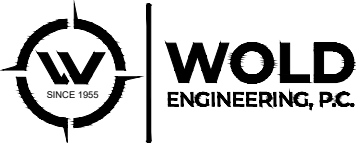
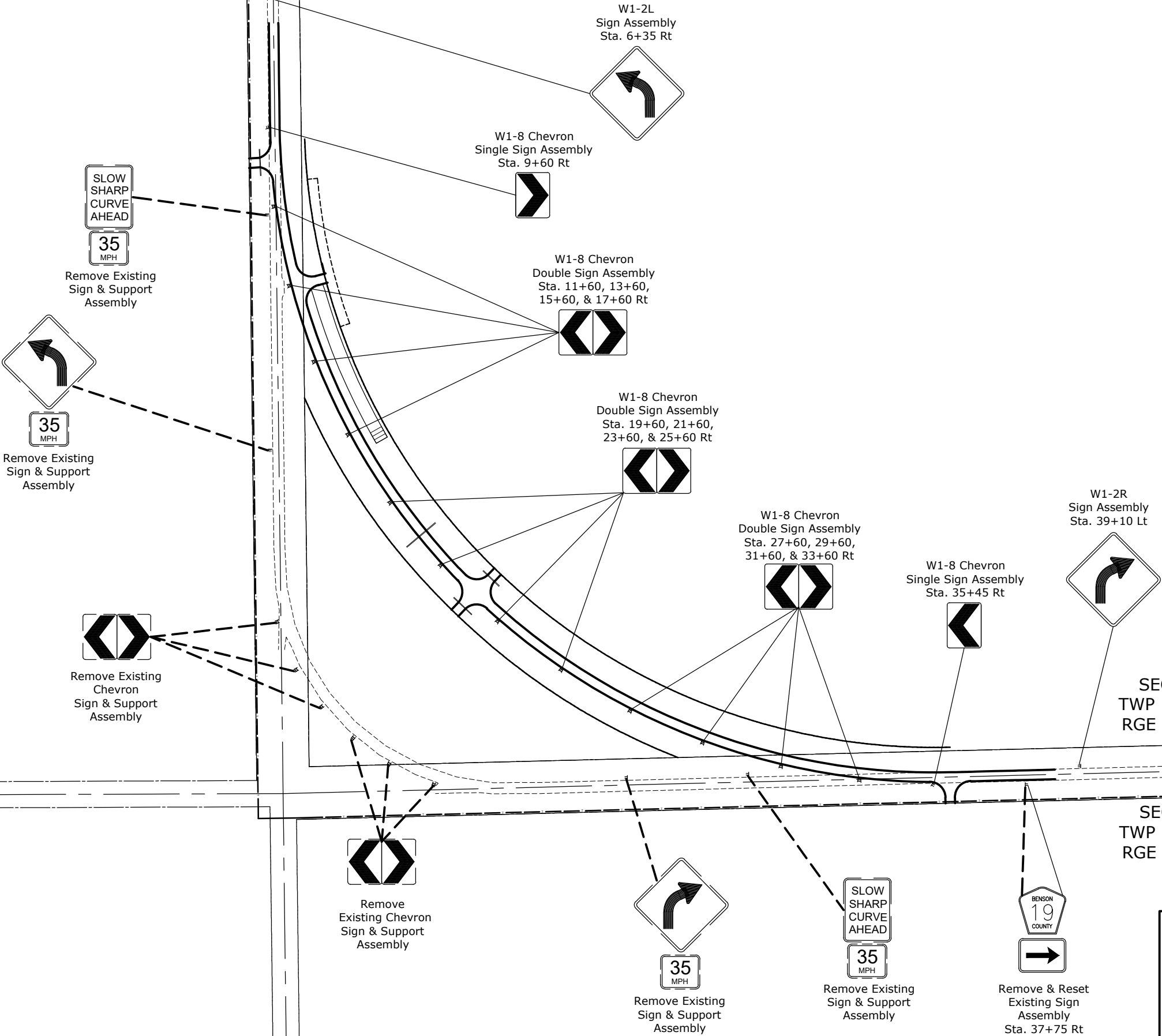
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RGE 69 W

SEC 6  
TWP 151 N  
RGE 68 W

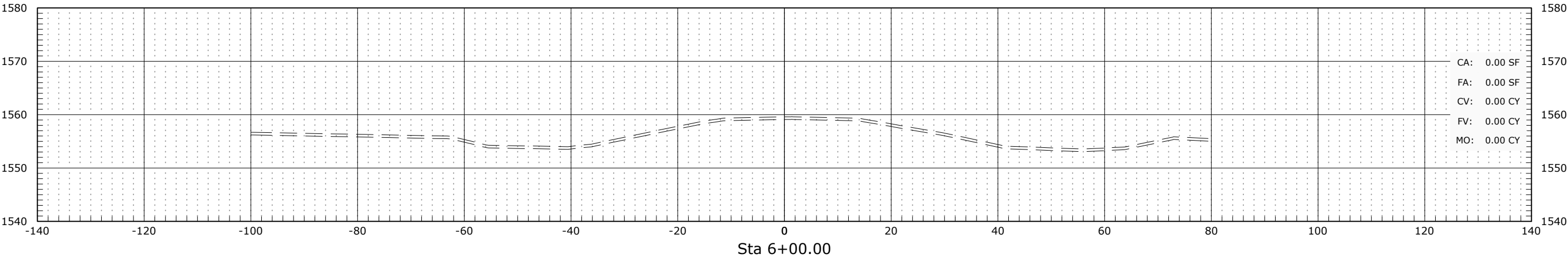
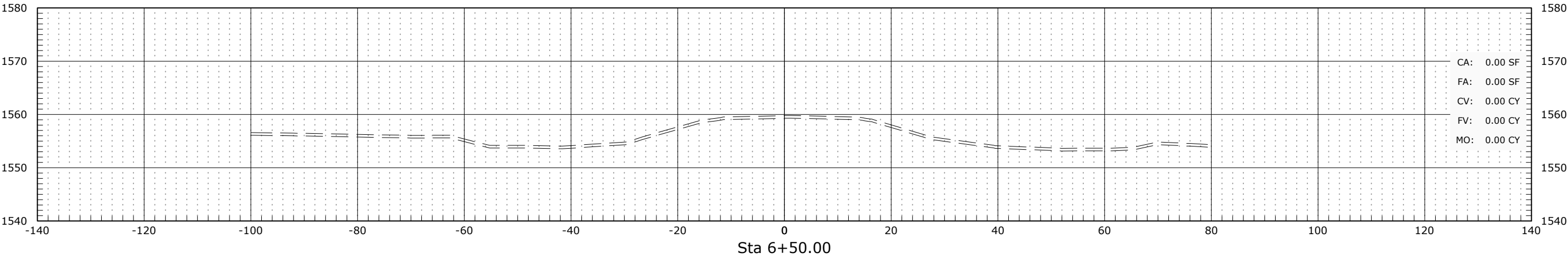
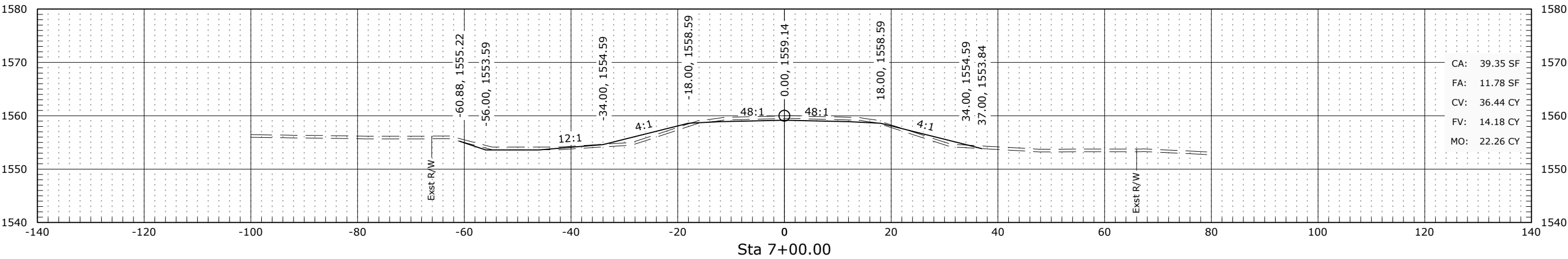
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RGE 68 W

SEC 12  
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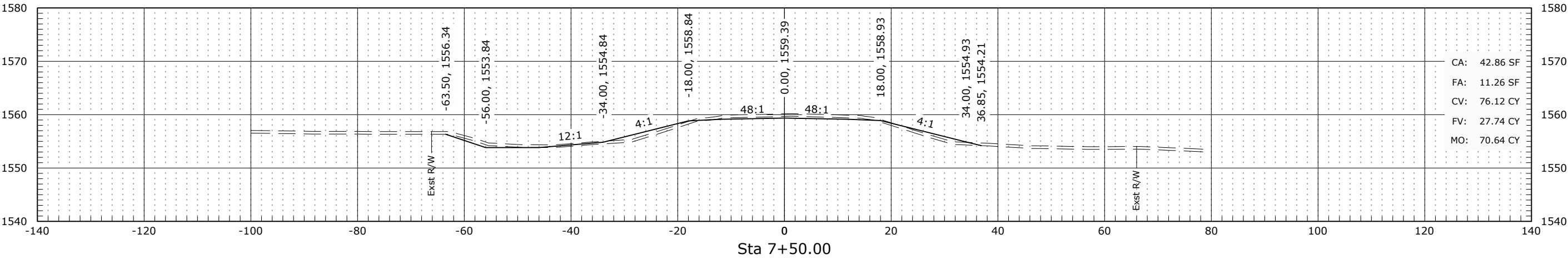
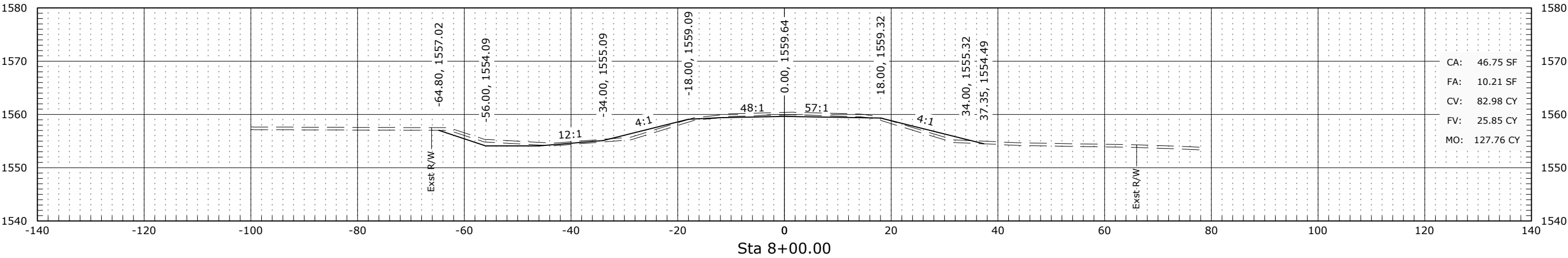
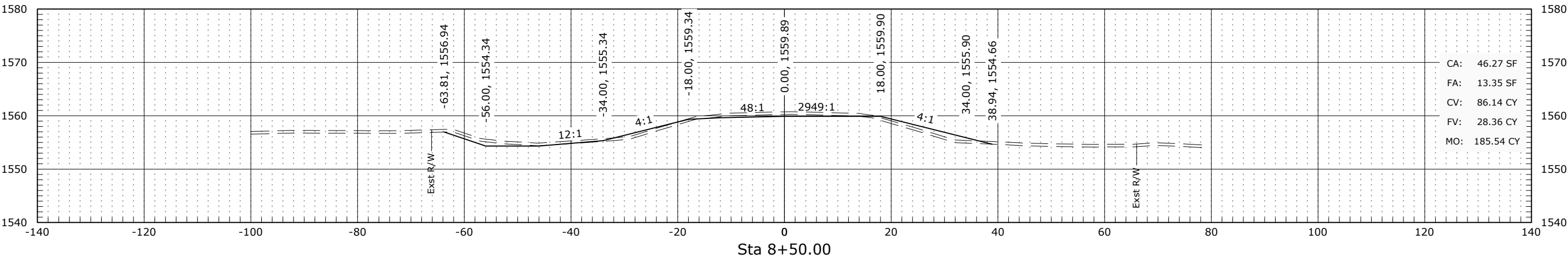
This document was originally issued and sealed by  
Jesse R. Brandvold,  
Registration Number  
PE-40107  
on 04/02/25 and the original document is stored at  
Wold Engineering, P.C.  
Bottineau, North Dakota

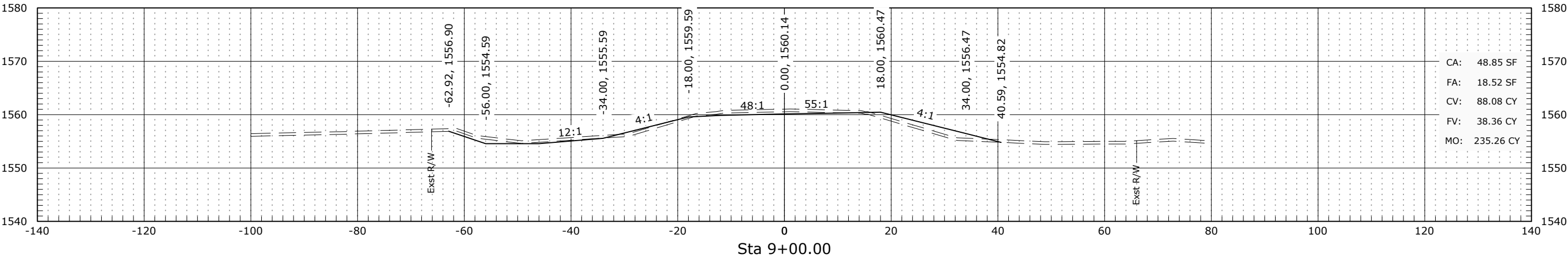
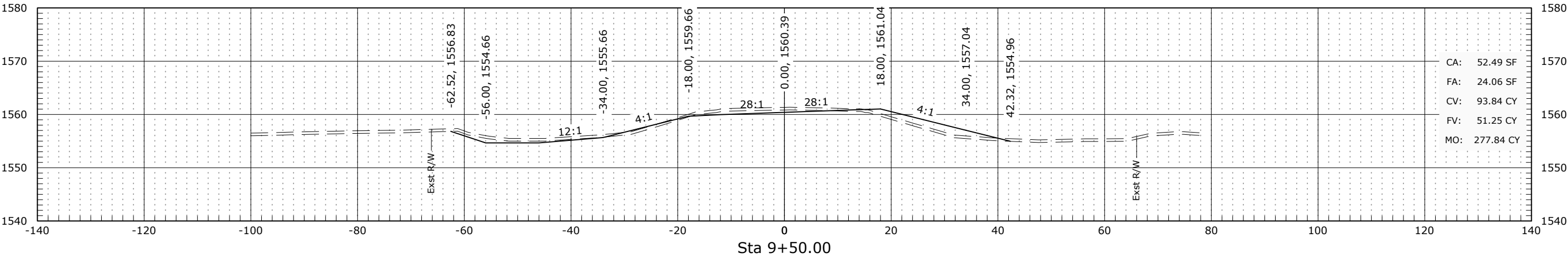
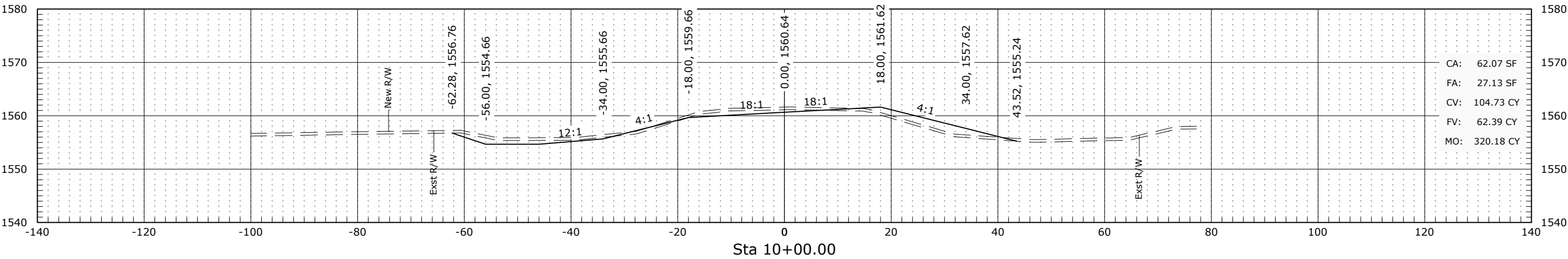
SIGN SUMMARY



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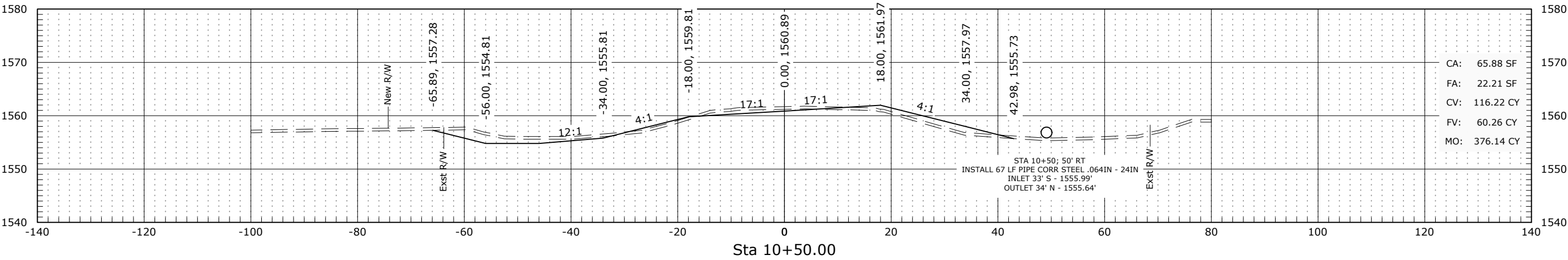
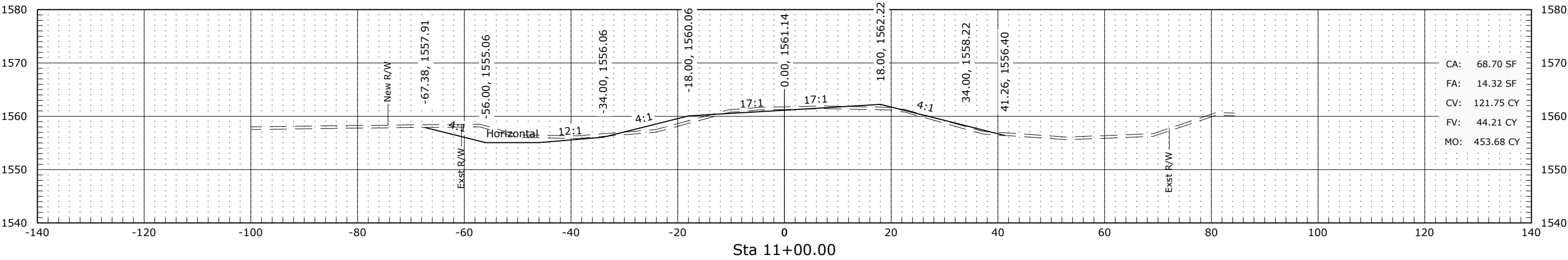
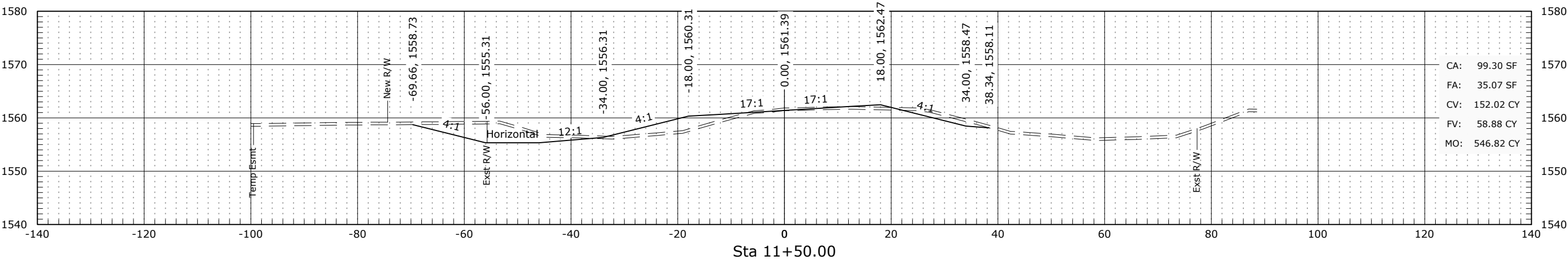
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| ND    | HEC-0003(024) | 200         | 2         |





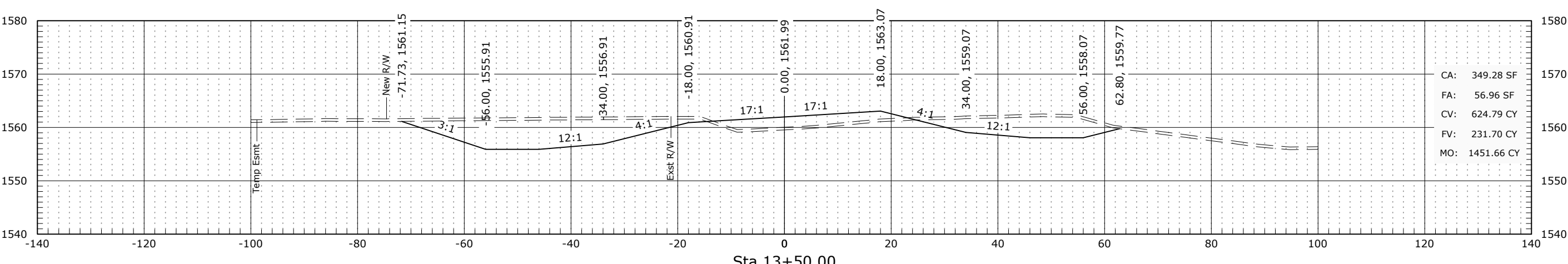
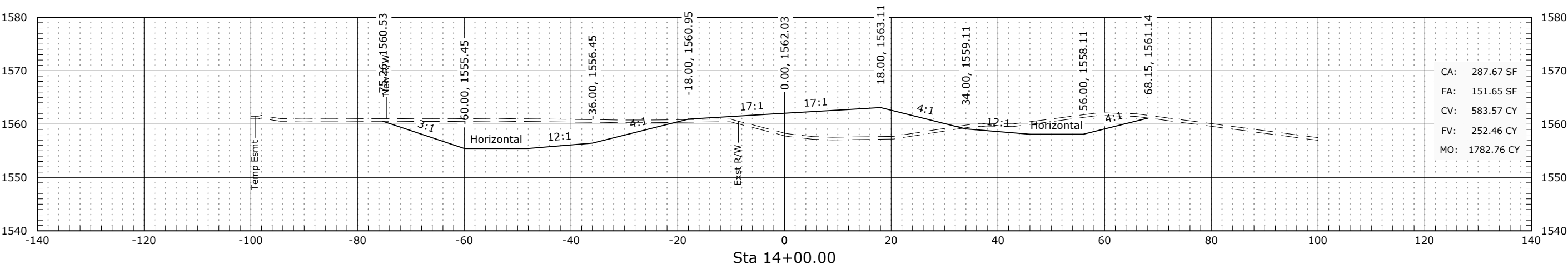
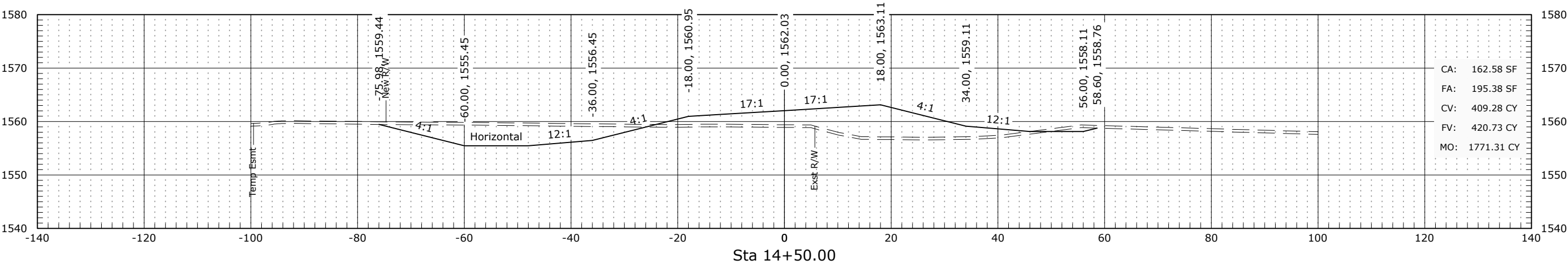
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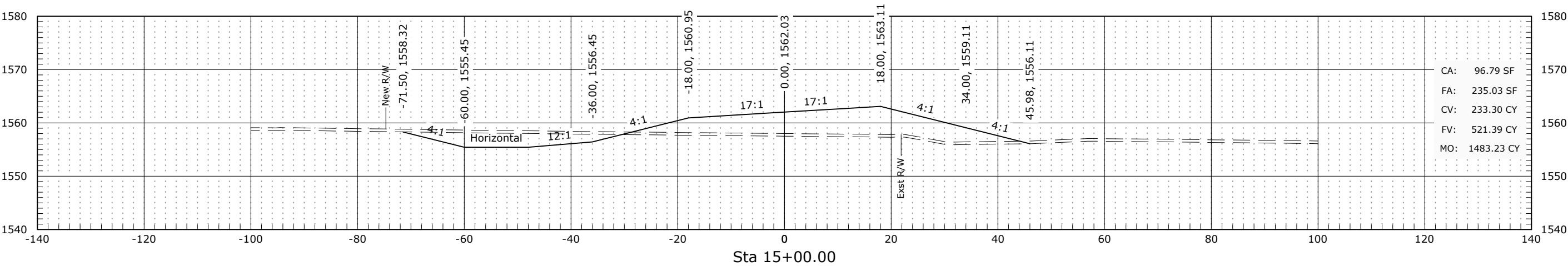
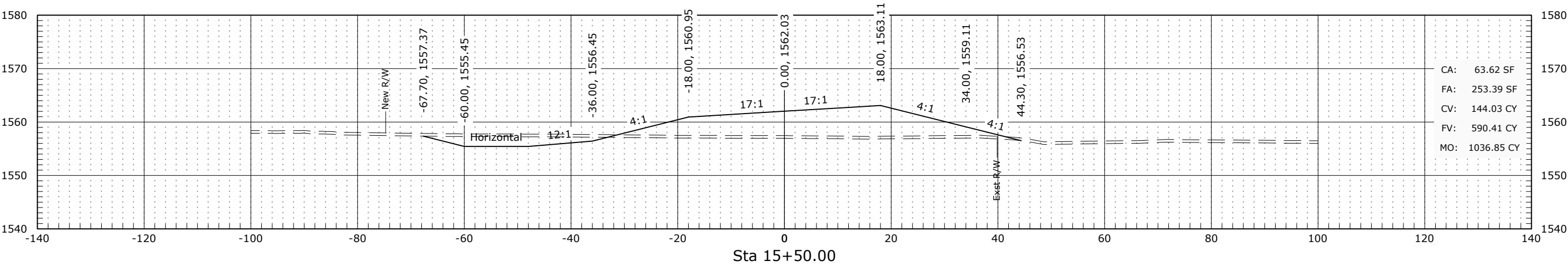
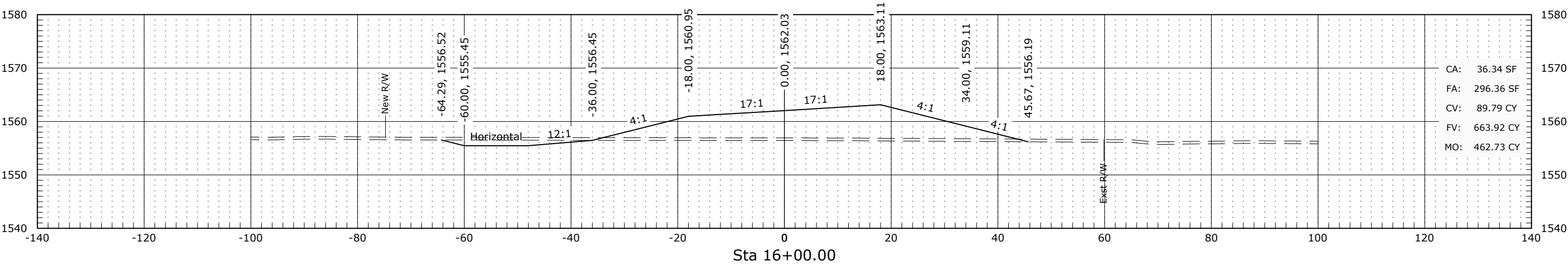


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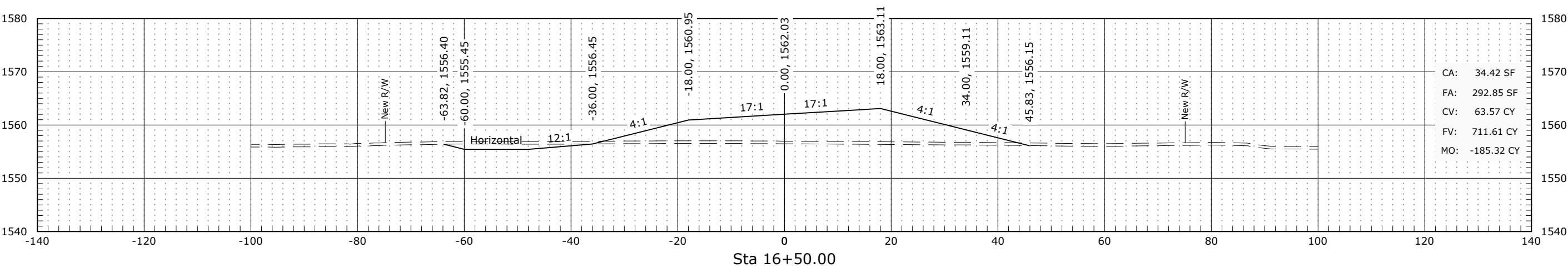
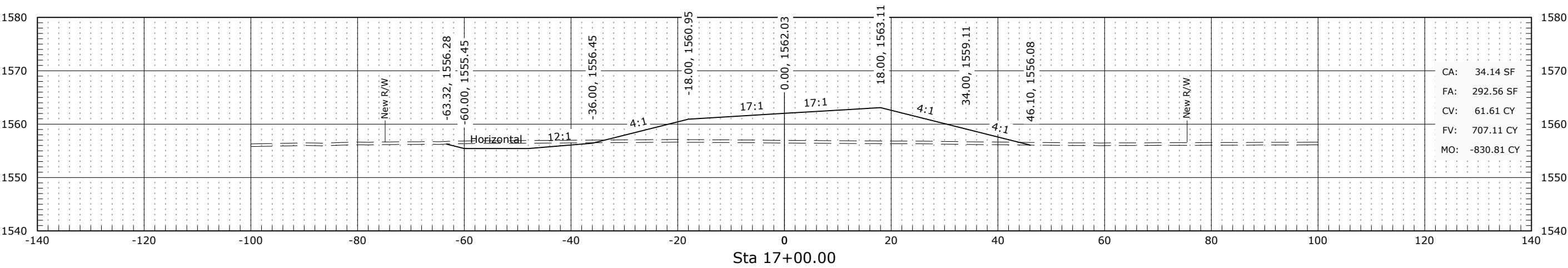
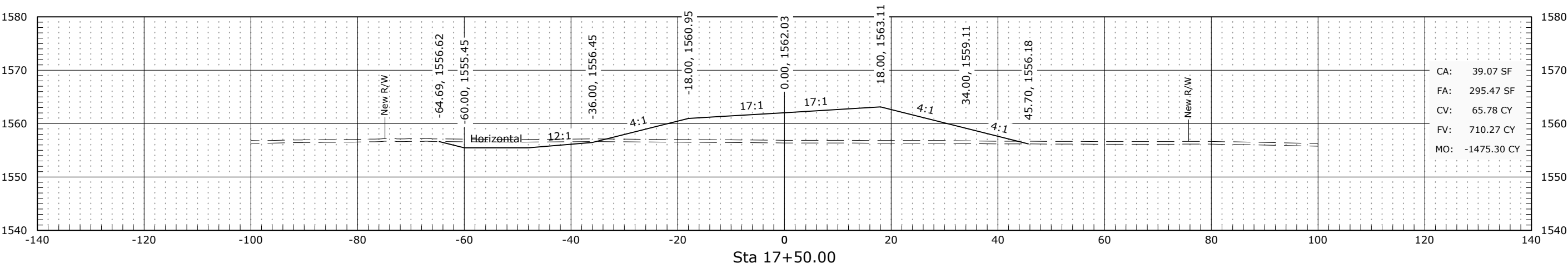


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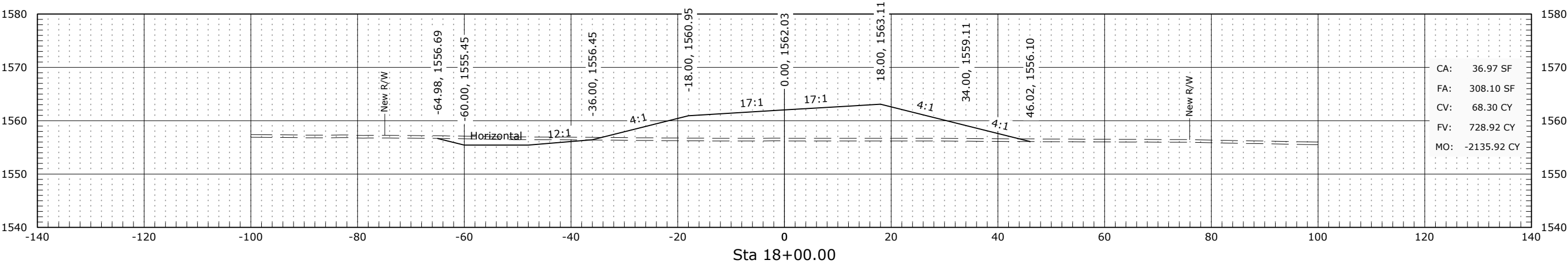
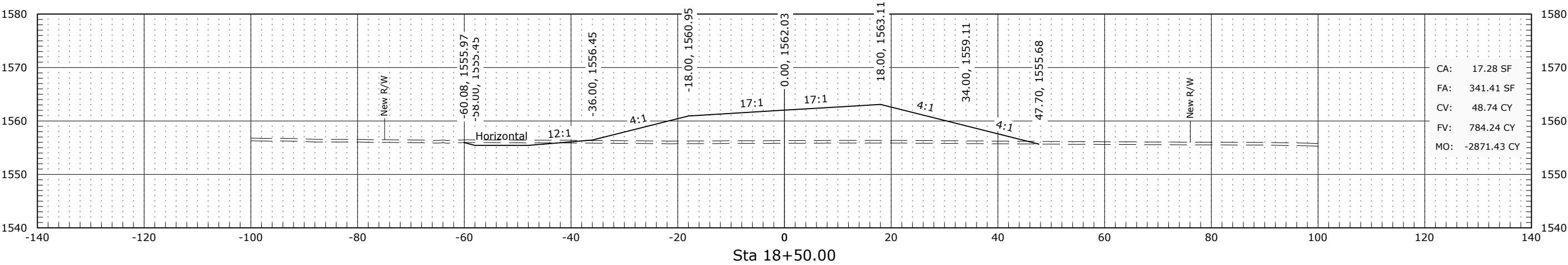
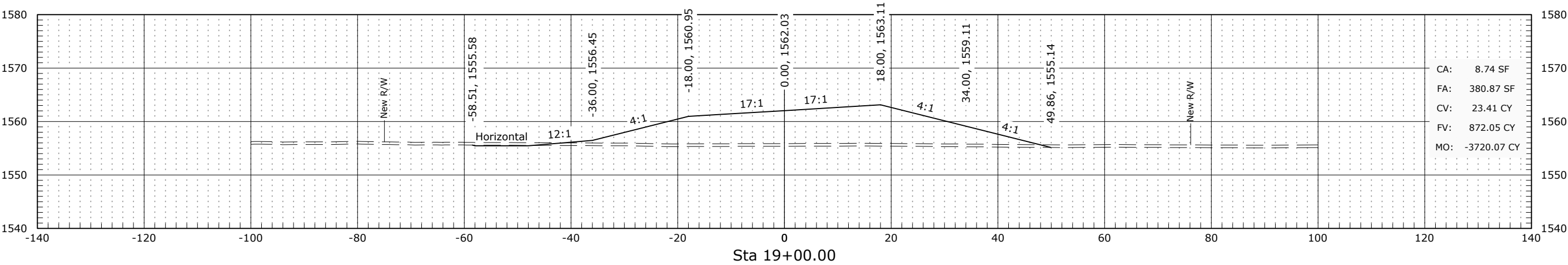
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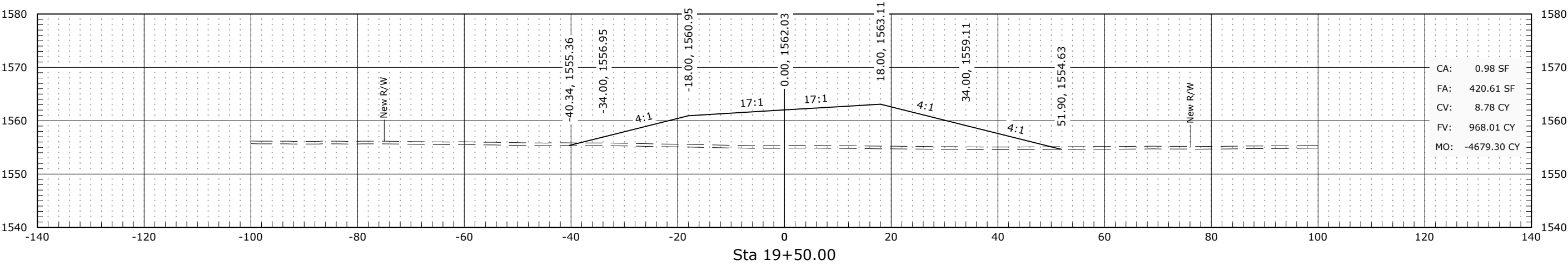
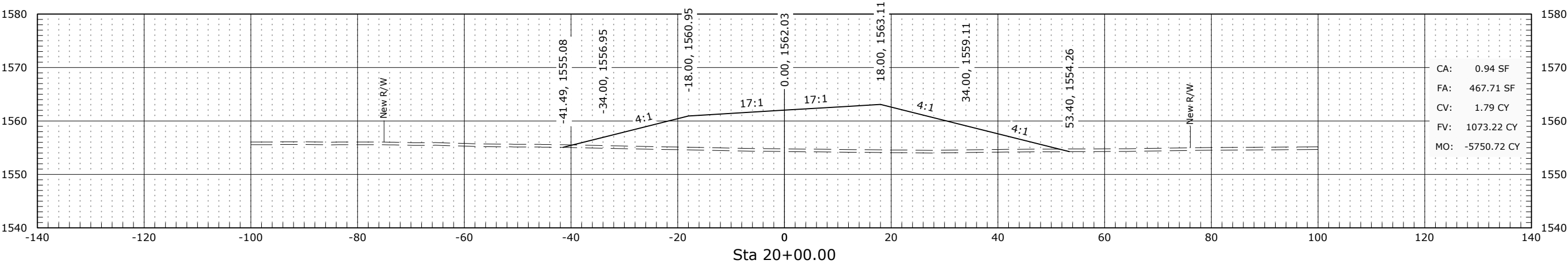
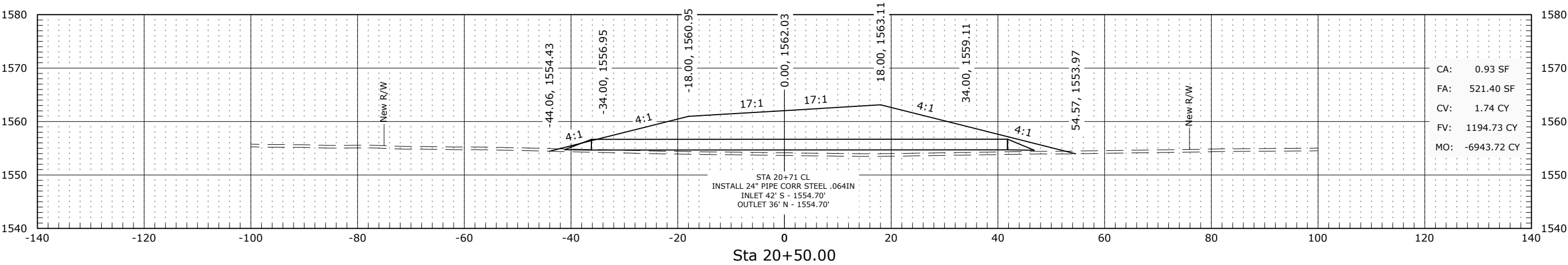
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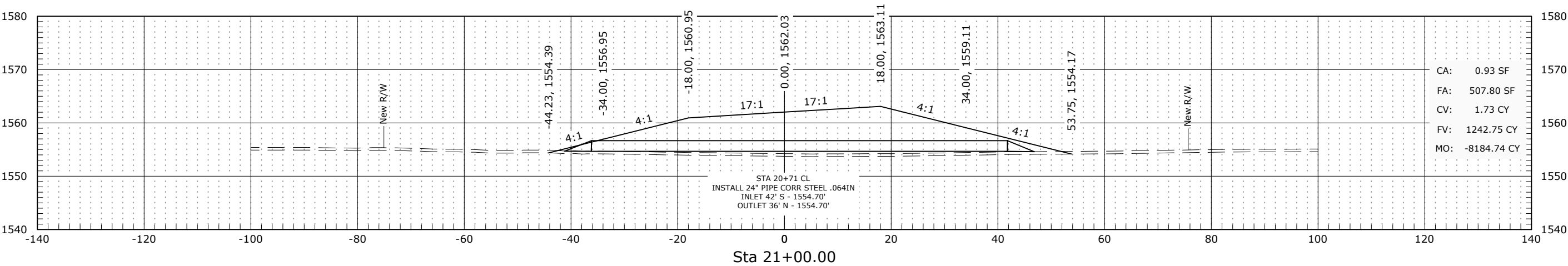
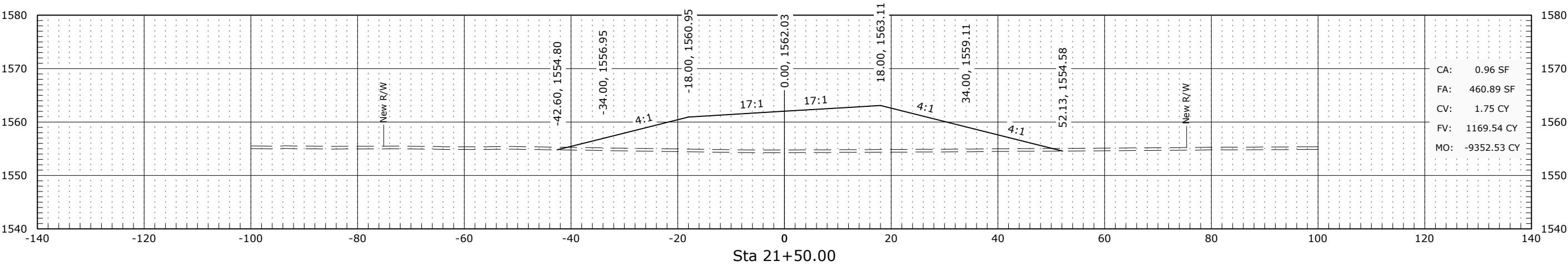
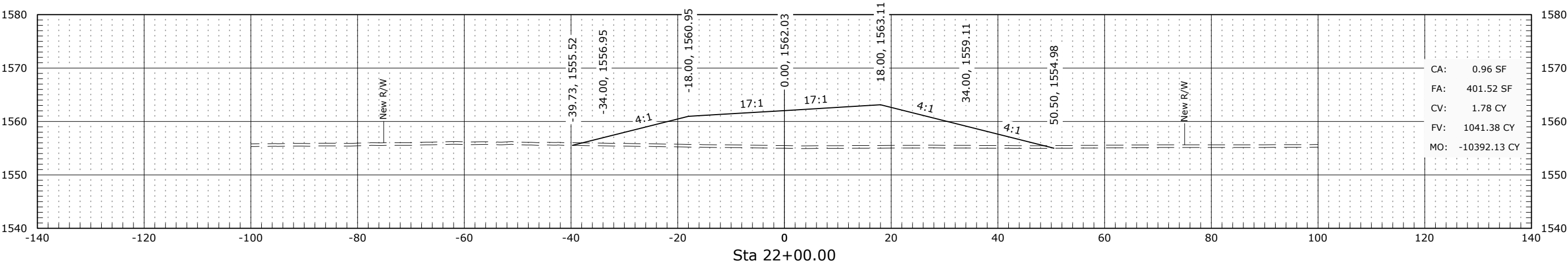
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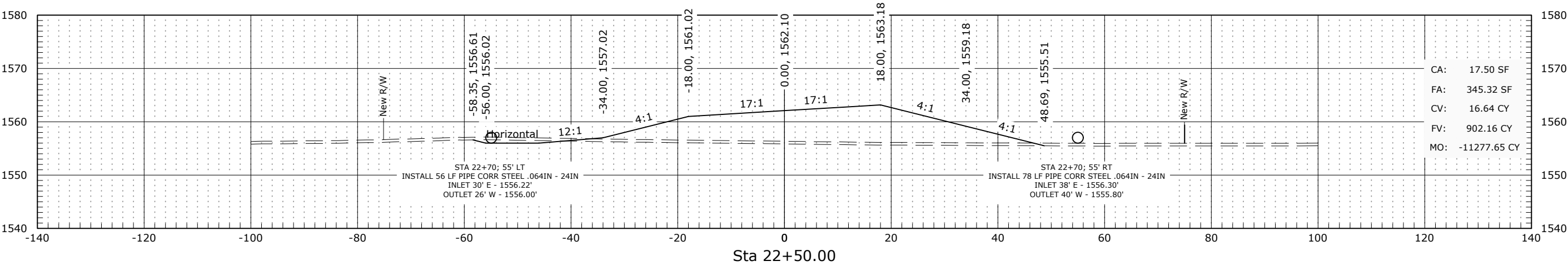
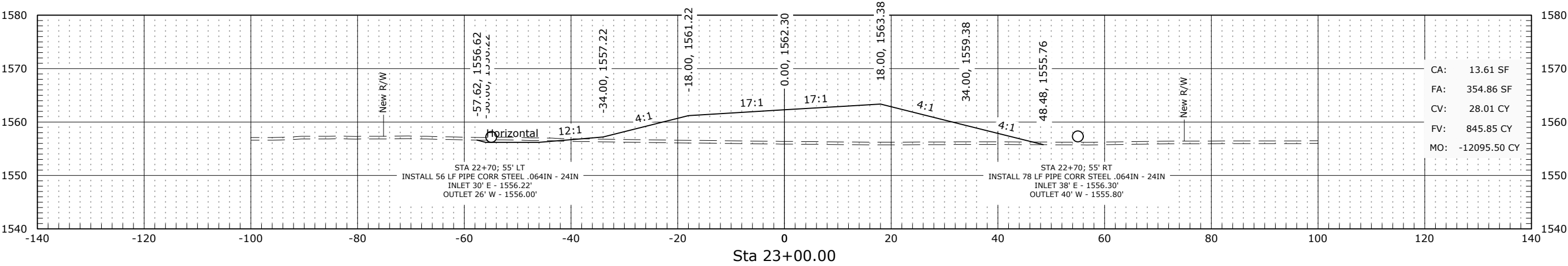
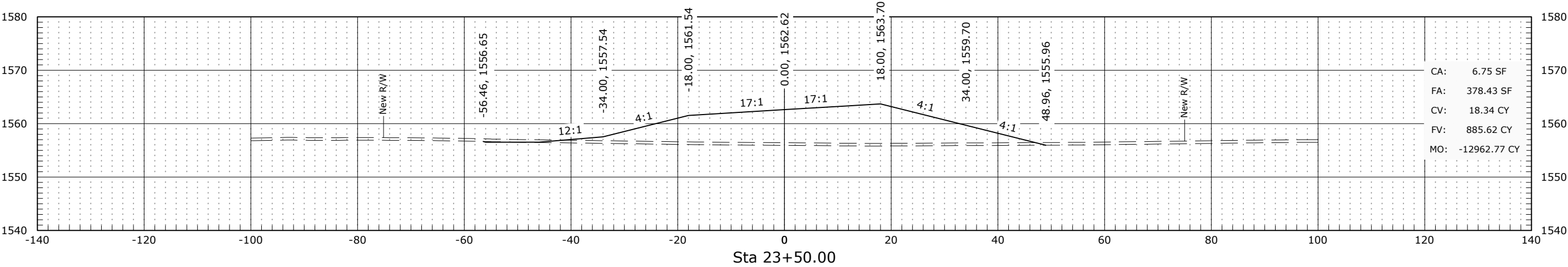
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| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
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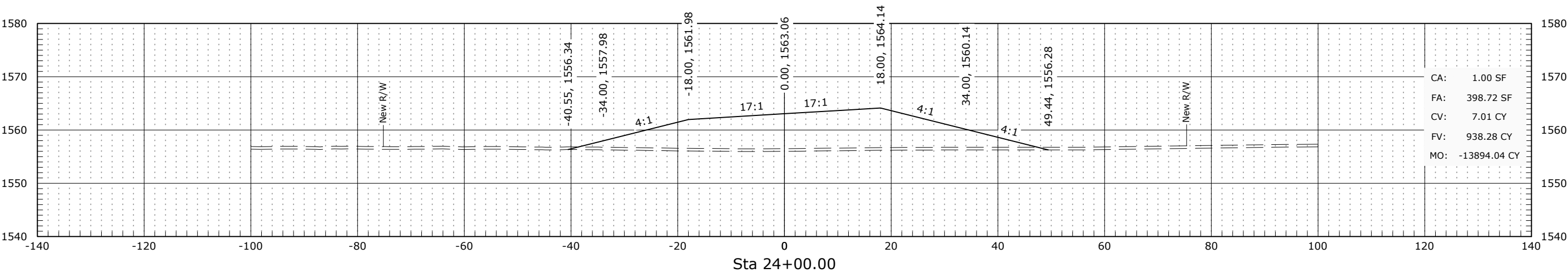
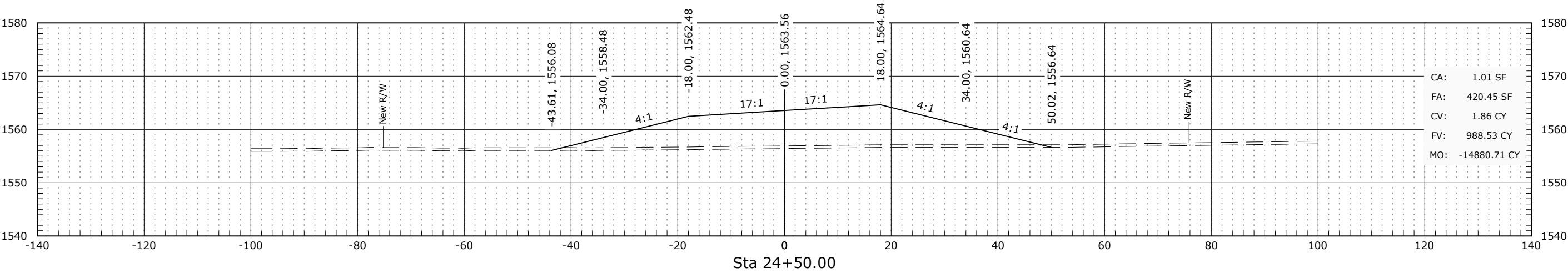
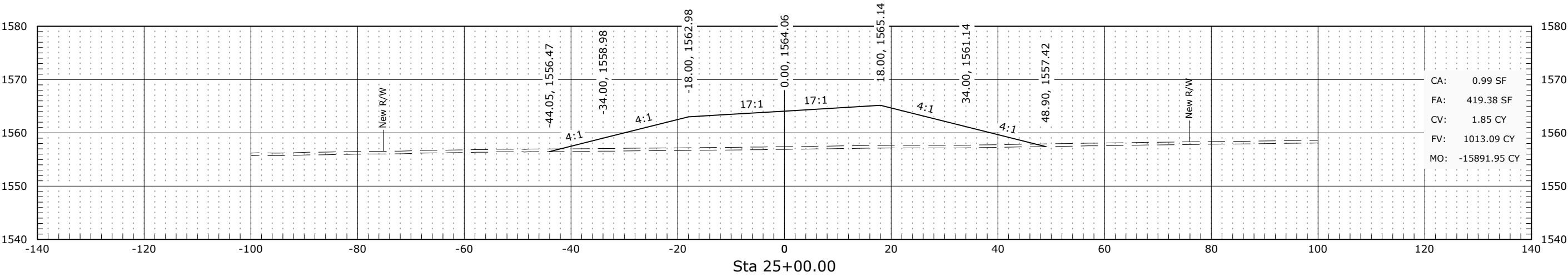


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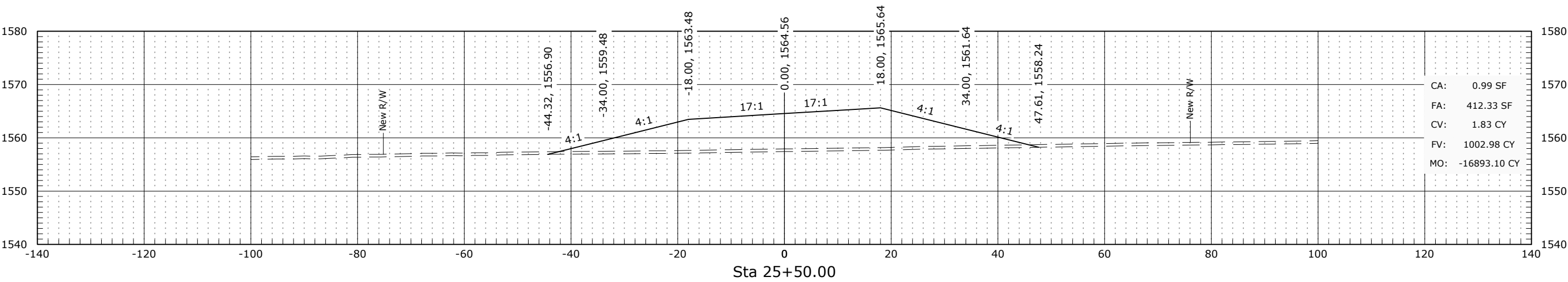
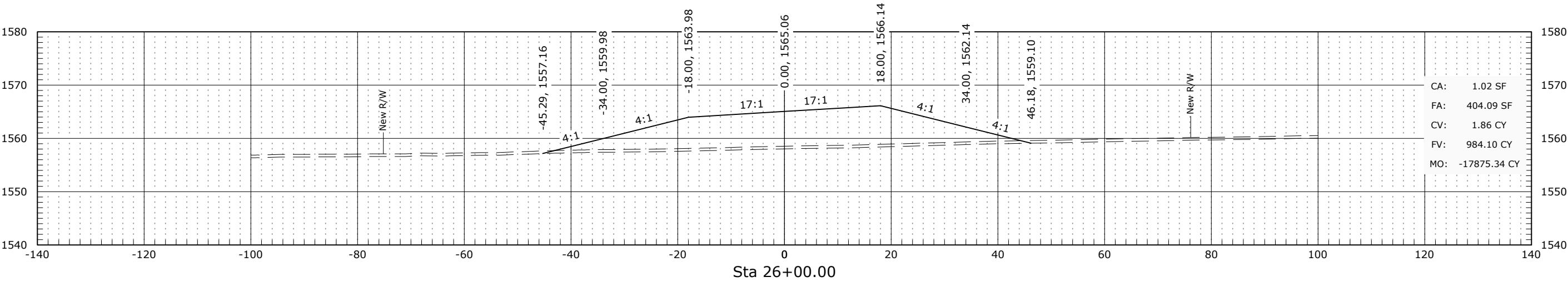
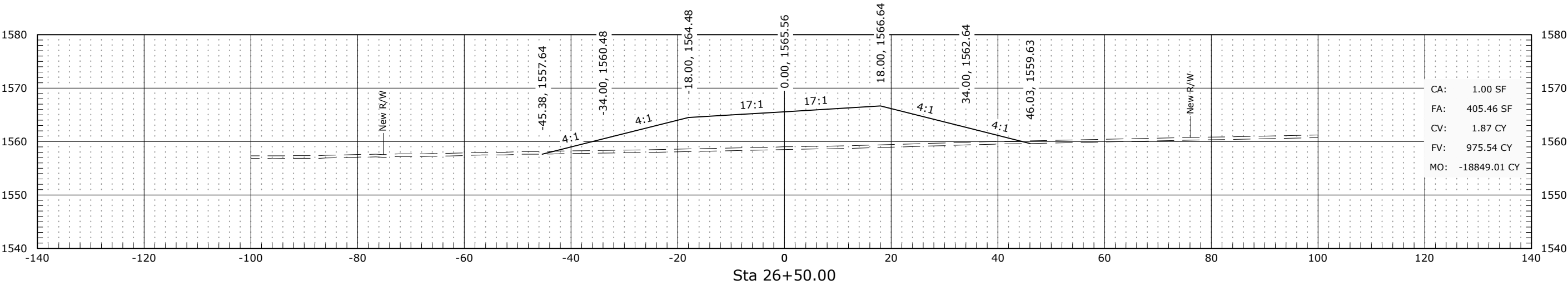


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| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
|-------|---------------|-------------|-----------|
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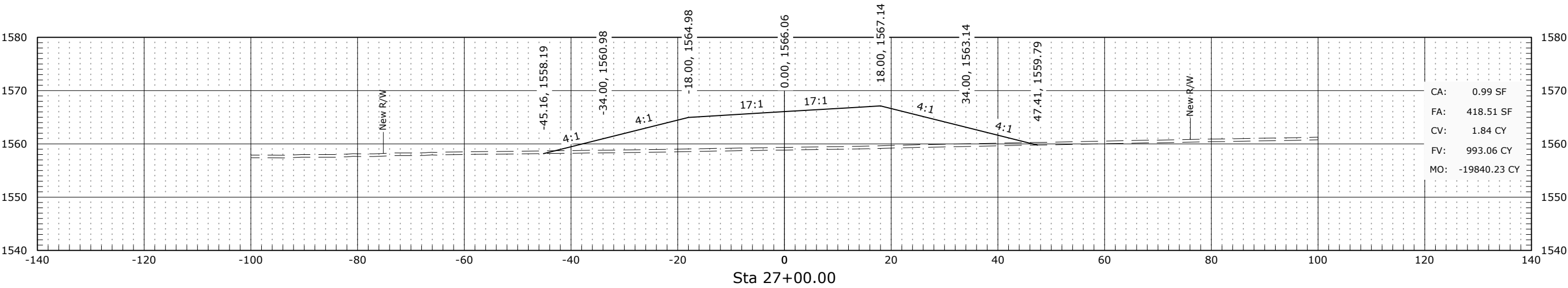
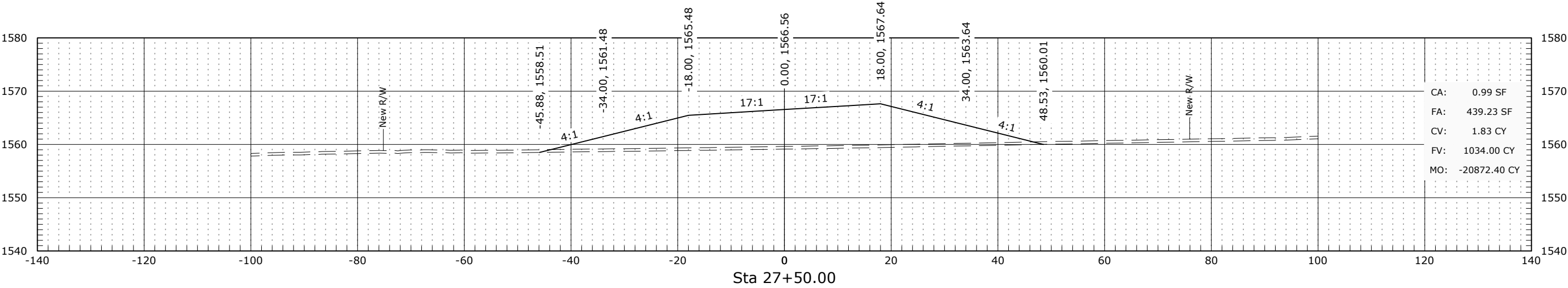
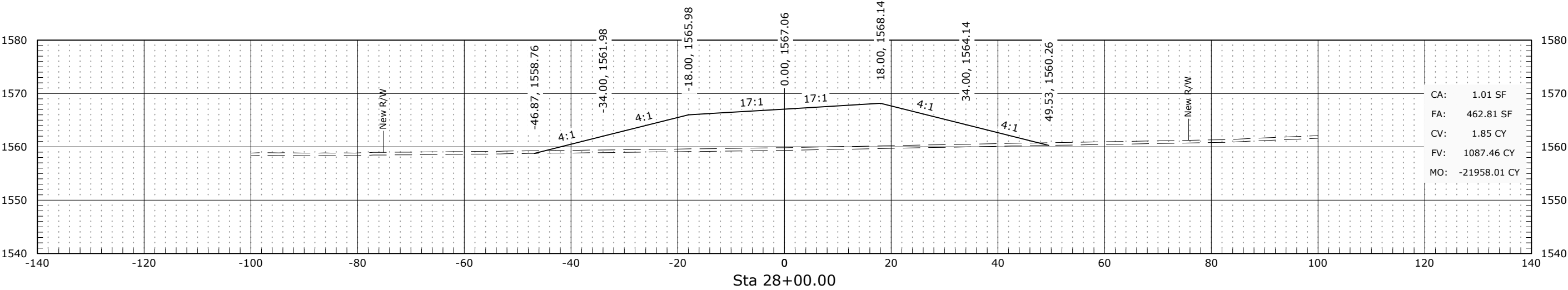


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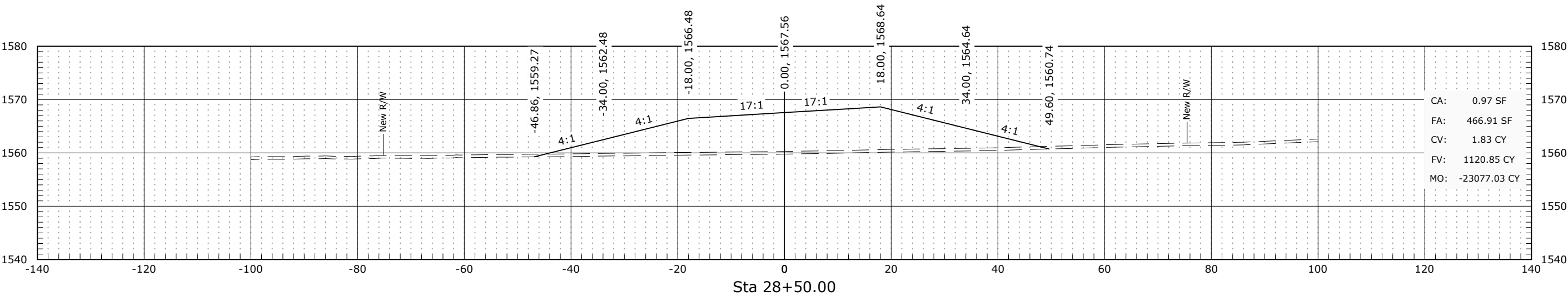
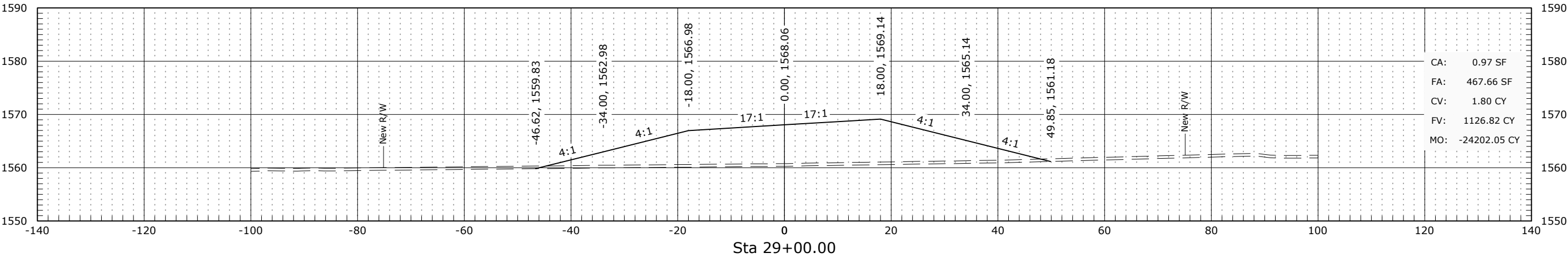
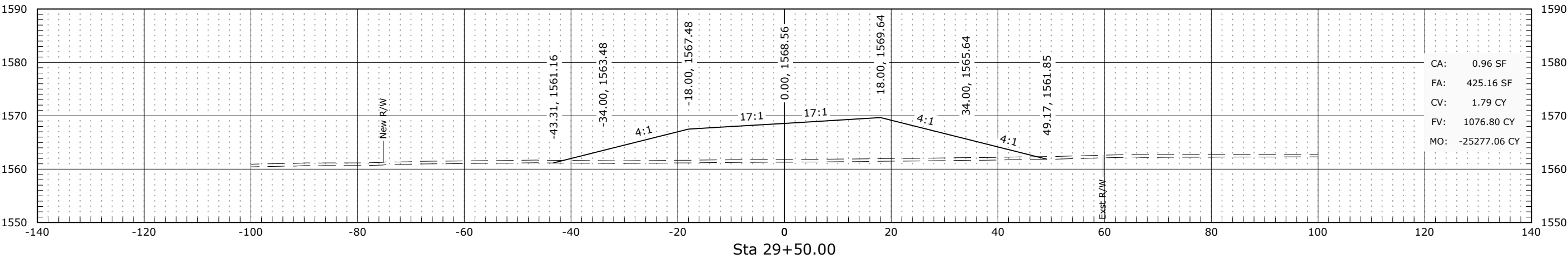
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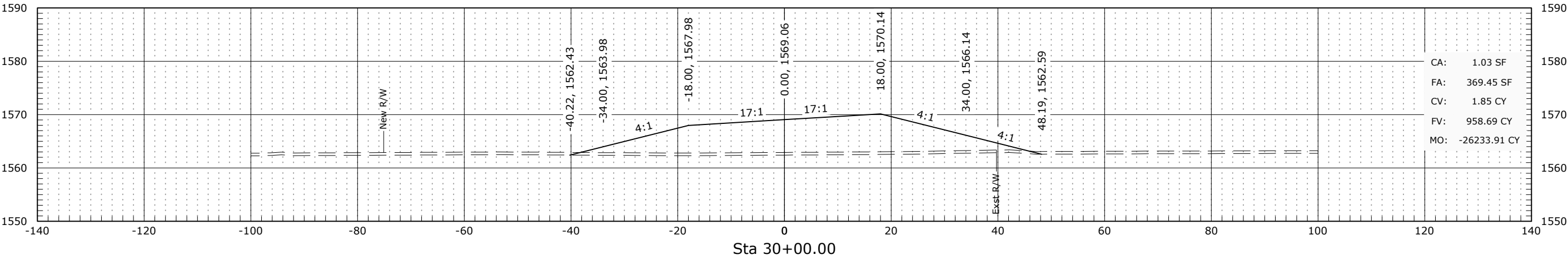
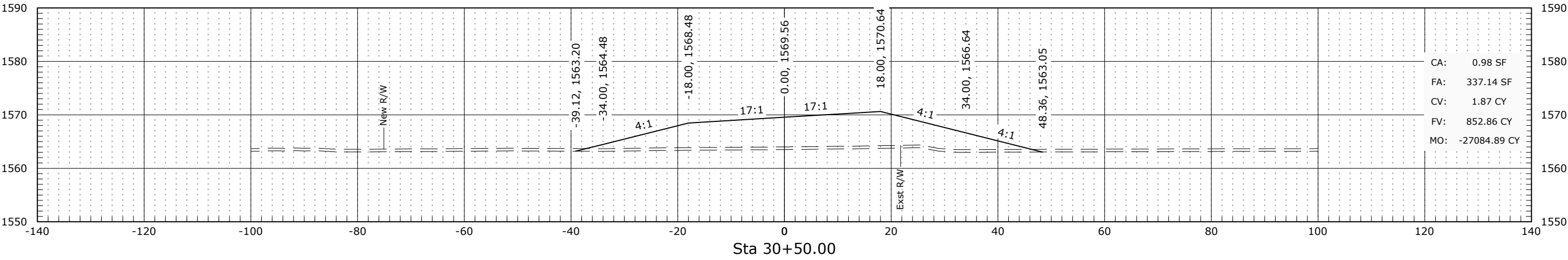
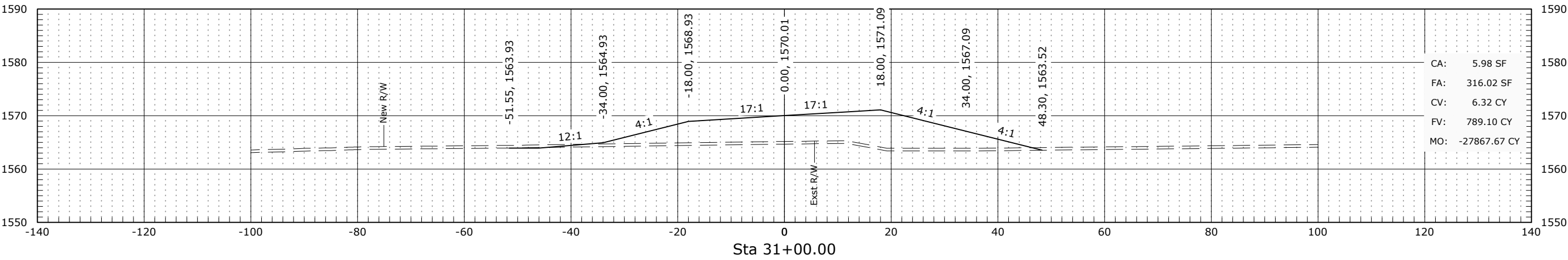


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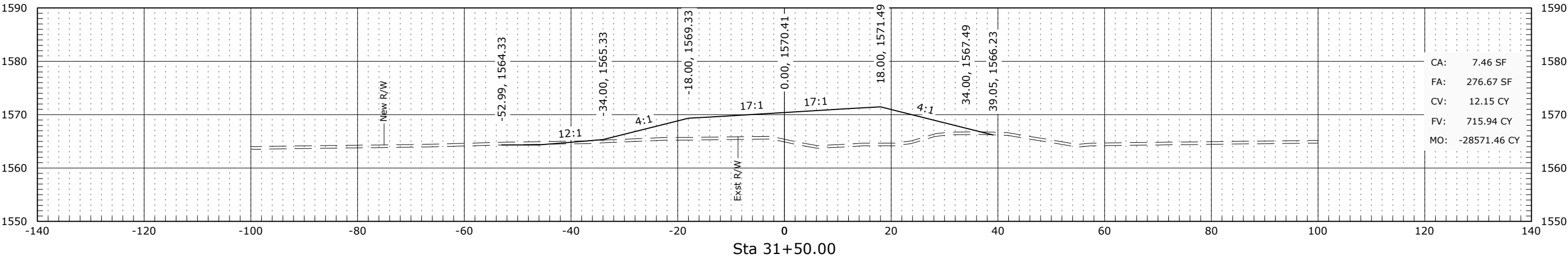
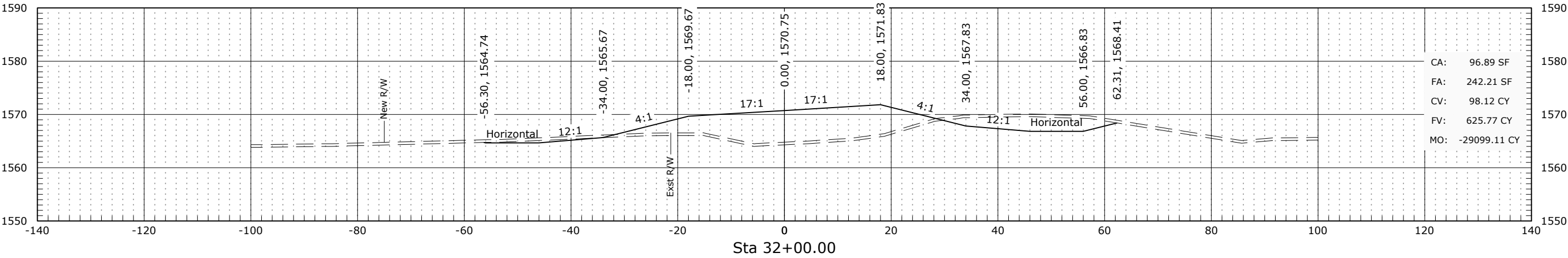
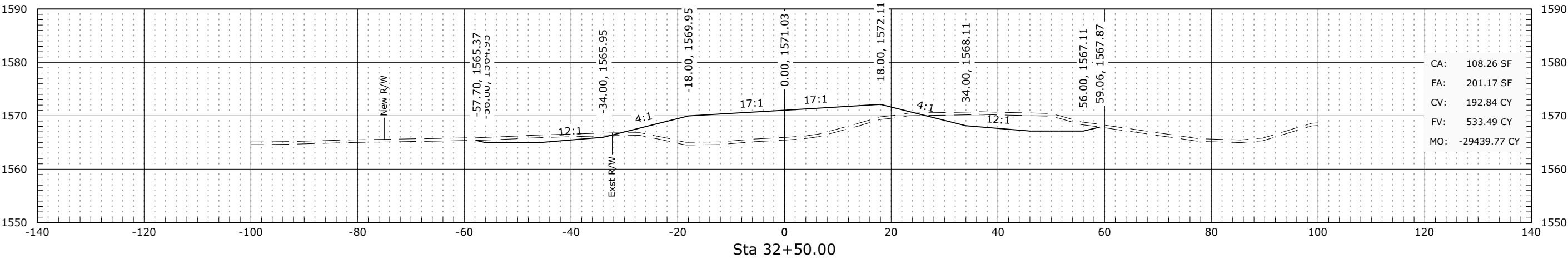
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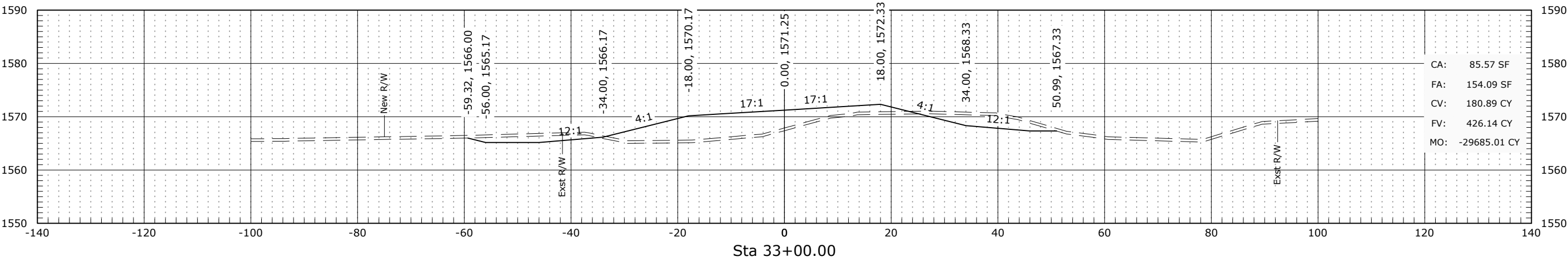
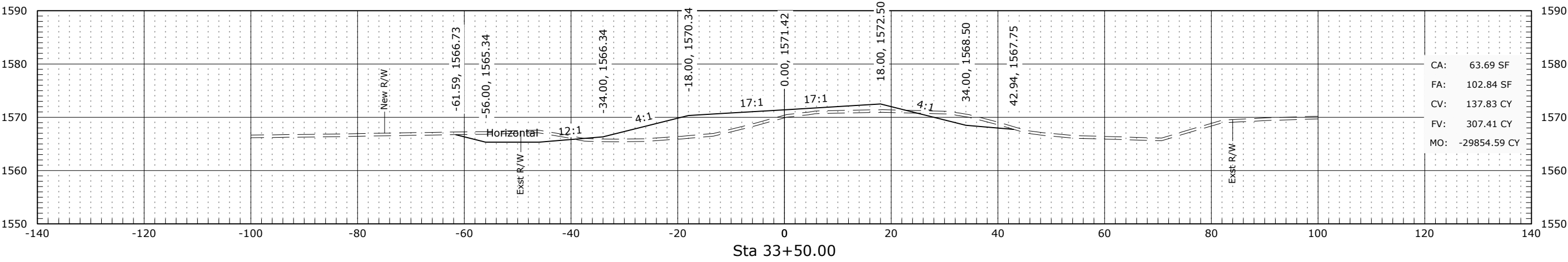
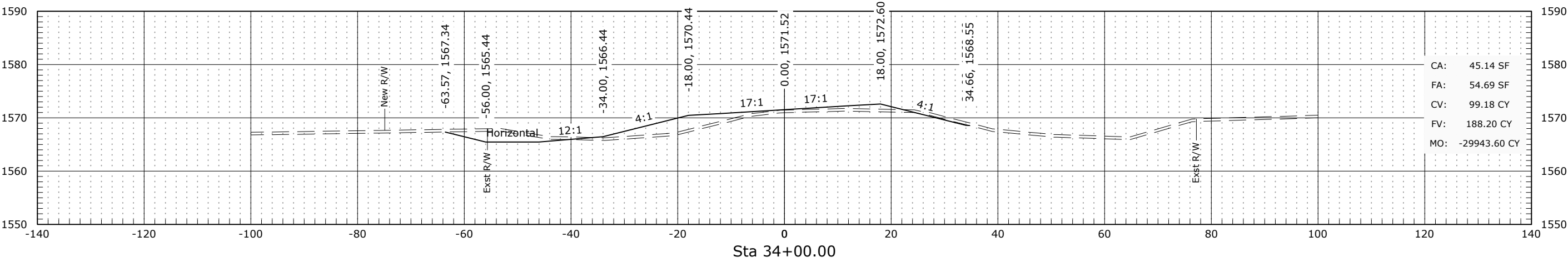
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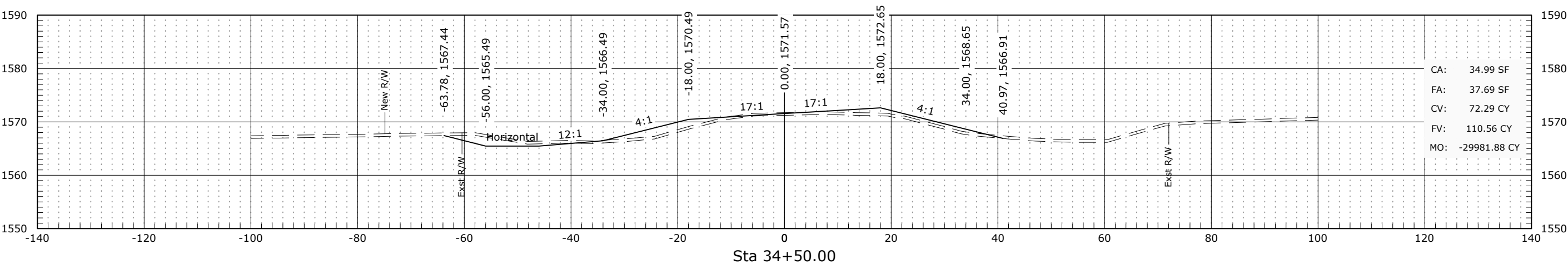
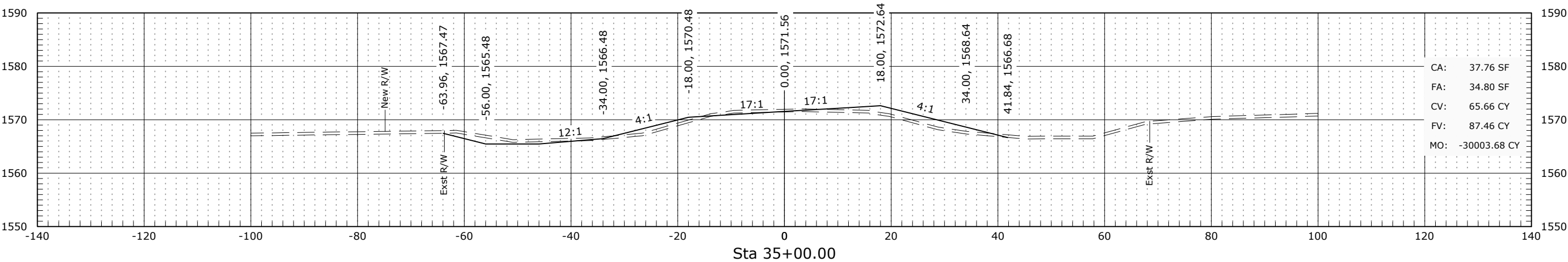
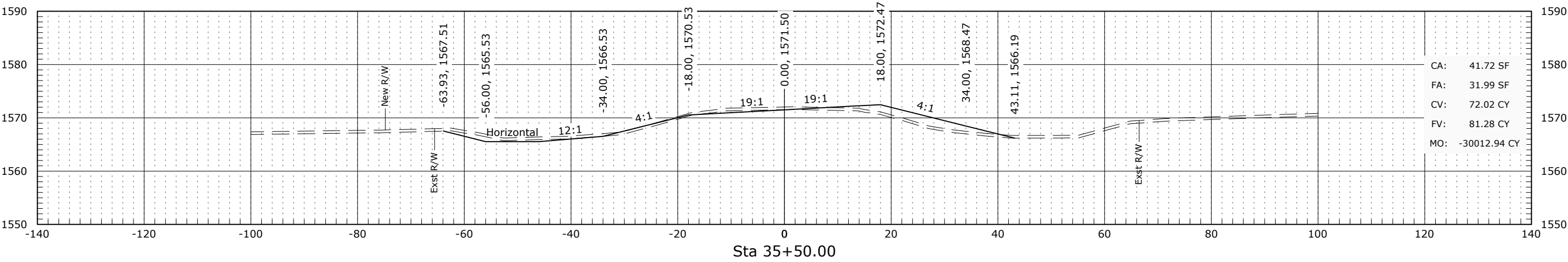
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| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
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| STATE | PROJECT NO.   | SECTION NO. | SHEET NO. |
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