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**COLORADO**  
 DEPARTMENT OF TRANSPORTATION  
**M&S STANDARDS PLANS LIST**  
 July 31, 2019  
 Revised on April 14, 2023

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX , AND WILL BE ATTACHED TO THE PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

90% DRAFT PLANS



Know what's below. Call before you dig.

Plot Date: 9/17/2025 12:54 PM Plotted By: Sarah Hemler  
 C:\PROJECTS\ACTIVE PROJECTS\30302-CITY OF EVANS 37TH ST AND 65TH AVE INTERSECTION DESIGN\00-COMPUTER DESIGN FILES\02-SHEET FILES\GN\_P3-002-STANDARD PLANS LIST.DWG

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12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

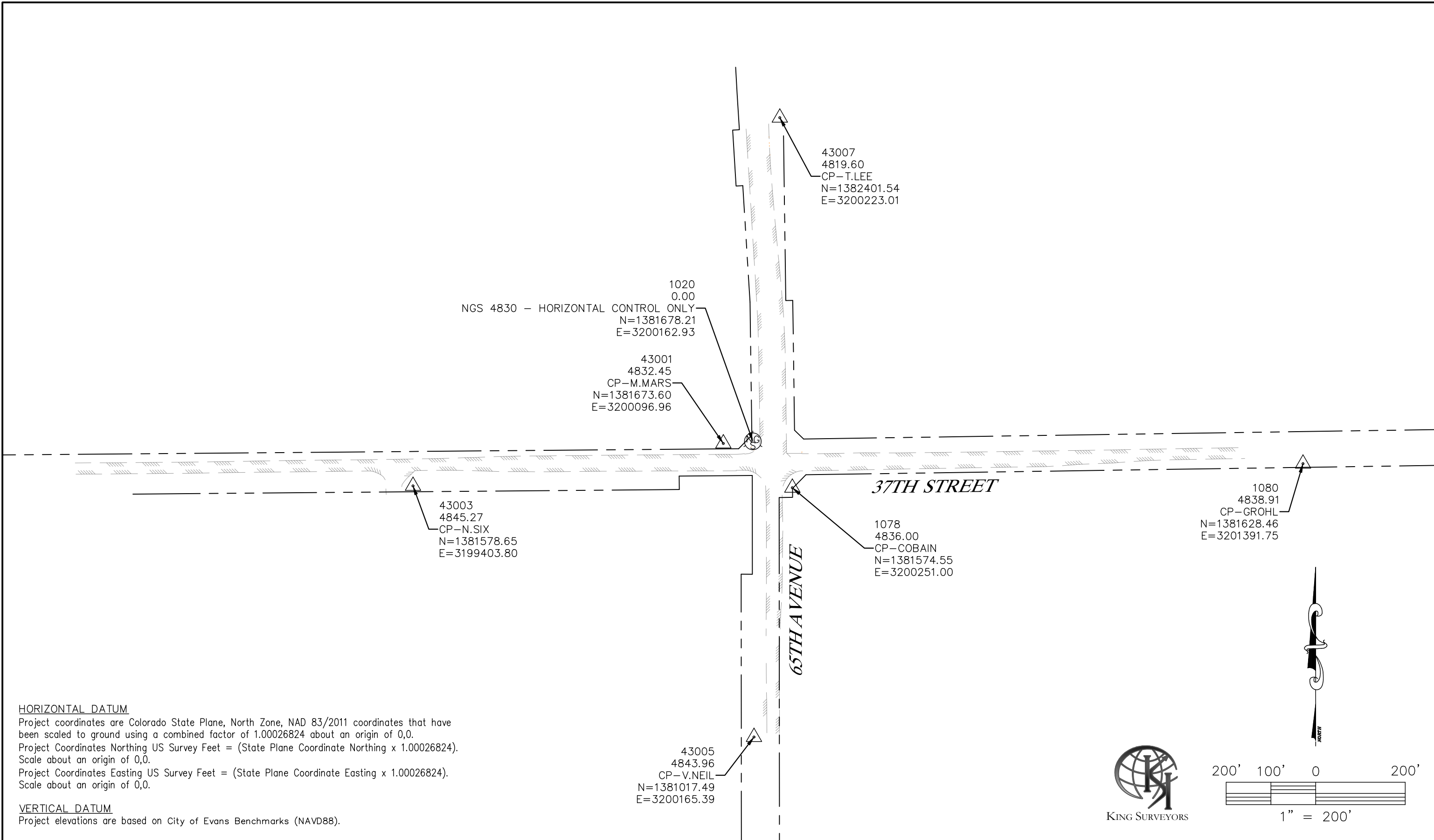
Sheet Revisions		
Date	Comments	Initials

As Constructed	
No Revisions:	
Revised:	
Void:	

37TH ST & 65TH AVE INTERSECTION STANDARD PLANS LIST			
Designer: T. Tuttle		Structure Numbers	
Detailer: S. Hemler			
Sheet Subset: GENERAL		Subset Sheets: 2 of 2	

Project No.	
STU M415-025	
Drawing Number GN-002	
Sheet Number 2	

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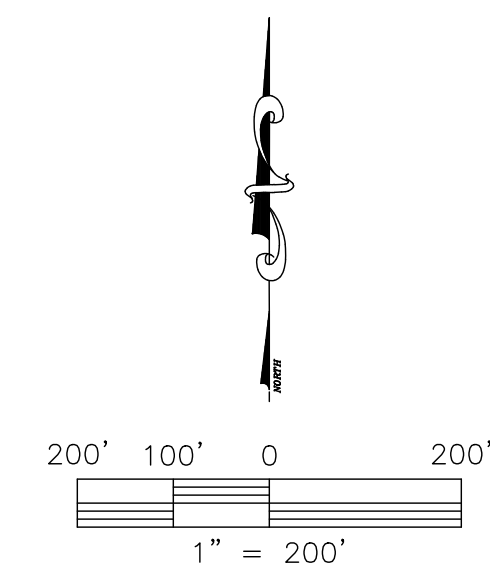


**HORIZONTAL DATUM**

Project coordinates are Colorado State Plane, North Zone, NAD 83/2011 coordinates that have been scaled to ground using a combined factor of 1.00026824 about an origin of 0,0.  
 Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing x 1.00026824).  
 Scale about an origin of 0,0.  
 Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting x 1.00026824).  
 Scale about an origin of 0,0.

**VERTICAL DATUM**

Project elevations are based on City of Evans Benchmarks (NAVD88).



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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/17/2025 File Name: SC P3-001 SURVEY CONTROL DIAGRAM.DWG Horiz. Scale: As Noted Vert. Scale: 1"=100'	<b>Sheet Revisions</b>		<b>As Constructed</b> No Revisions: Revised: Void:	<b>37TH ST &amp; 65TH AVE INTERSECTION SURVEY CONTROL DIAGRAM</b>	<b>Project No.</b> STU M415-025 Drawing Number SC-001 Sheet Number 3													
	<table border="1" style="width: 100%;"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date		Comments	Initials													Designer: SMF Detailer: MCD Sheet Subset: SURVCON Structure Numbers:	Subset Sheets: 1 of 1
	Date	Comments		Initials															

**TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:**

- Format \*  
 3D Design Modeling Electronic Files  
 Horizontal Control  
 Vertical Control  
 Roadway Alignment  
 Original Terrain Data  
 Other: \_\_\_\_\_

\* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

**TYPE OF PROJECT**

- Landscaping  
 Signalization  
 Safety Improvement  
 Asphalt Overlay  
 Concrete Overlay  
 Minor Widening  
 Major Reconstruction  
 New Roadway Construction  
 Bridge Replacement  
 Bridge Widening  
 New Bridge  
 Other: \_\_\_\_\_

**SURVEY WORK TO BE PERFORMED BY OTHERS:** \_\_\_\_\_

**WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:**

- A complete passing Base Line report (completed within 6 months prior to the start of the project)  
 An instrument calibration Certification (completed within 6 months prior to the start of the project)  
 Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)  
 Verification and Maintenance of Horizontal and Vertical Control  
 Verify or Determine existing grades and alignments  
 Verify or Determine existing topography  
 Clearing and Grubbing Limits (Section 201)  
 Removal Limits (Section 202)  
 Reset Items (Section 210)  
 Excavation and Embankment (Section 203)

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- Excavation  
 Unclassified  
 Stripping  
 Muck  
 Rock  
 Borrow  
 Other: \_\_\_\_\_  
 Potholing

- Embankment  
 Site Grading  
 Erosion Control (Perm)  
 Other: \_\_\_\_\_

- As Staked Earthwork Quantities (See General Notes)

- Landscaping  
 Top Soil (Section 207)  
 Seeding (Section 212)  
 Mulching (Section 213)  
 Planting (Section 214)  
 Herbicide (Section 217)  
 Other: \_\_\_\_\_

- Erosion Control (Section 208)  
 Seeding (Temp)  
 Silt Fence  
 Erosion Bales  
 Erosion Logs  
 Riprap (Temp)  
 Other: \_\_\_\_\_

- Roadway Bases  
 Untreated Subgrade  
 Treated Subgrade  
 Aggregate Base Course (Section 301)  
 Reconditioning  
 PMBB - Plant Mix Bituminous Base  
 Other: \_\_\_\_\_

	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	-	Y	-	-
	-	-	-	-
	-	Y	-	-
	-	-	-	-
	-	-	-	-

- Pavements  
 HMA - Hot Mix Asphalt (Section 403)  
 Concrete (Section 412)  
 Heating & Scarifying Treatment  
 Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)  
 Seal Coat or Chip Seal (Section 409)  
 Other: \_\_\_\_\_

	Grid (Y/N)	Special Interval	Special Offset
Pavements	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Roadway Elements  
 Curb and Gutter (Section 609)  
 Drop inlets - alignment and grades (Section 604)  
 Retaining Walls  
 Guard Rail (Section 606)  
 Sidewalk (Section 608)  
 Overlay Stationing  
 Other: \_\_\_\_\_

	Tangent Interval	Curve Interval	Special Offset
Curb & Gutter	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Riprap (Perm) (Section 506)  
 Slope and Ditch Paving (Section 507)

- Minor Structures  
 Structure Excavation limits (Section 206)  
 Culverts (Section 603)  
 Culverts w/ Headwalls and Wingwalls (Section 601)  
 Concrete Box Culverts w/ Headwalls and Wingwalls (Section 601)  
 Pipes (Section 603)  
 Sanitary Sewer  
 Storm Sewer  
 Water  
 Irrigation  
 Miscellaneous  
 Manholes (Section 604)  
 Inlets (Section 604)  
 Permanent Water Quality BMP (Section 208)  
 Other: \_\_\_\_\_

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges and all other structures assigned a structure number  
 Structure Excavation limits (Section 206)  
 Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)  
 Piling locations and cut off elevations (Section 502)  
 Caisson locations and elevations (Section 503)  
 Footing locations, alignment, and elevations  
 Abutment/Pier locations, alignment, and elevations  
 Wingwall skew angles/offsets  
 Structural concrete form locations  
 Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)  
 Bridge expansion joint(s) alignment and grade (longitudinal and transverse)  
 Deck grades at Girder 10th or "n" th point locations and elevations  
 Slope and Ditch Paving (Section 507)  
 Other: \_\_\_\_\_

- Fencing (Section 607)  
 Temporary  
 Permanent  
 Sound Barrier  
 Other: \_\_\_\_\_

- Delineators (Section 612)  
 Temporary  
 Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)  
 Signal pole locations and elevations  
 Light pole locations and elevations  
 Sign locations  
 Field verify sign post locations, elevations, and lengths before fabrication  
 Other: \_\_\_\_\_

- Pavement Marking (Section 627)  
 Striping (Temp)  
 Striping (Perm)  
 Symbols  
 Other: \_\_\_\_\_  
 Temporary Lighting and Construction Traffic Control Devices (Section 630)  
 Signal pole locations and elevations (Temp)  
 Light pole locations and elevations (Temp)  
 Sign Locations (Temp)  
 Other: \_\_\_\_\_  
 All Easements (Temp Staking by P.L.S. Only)  
 Right of Way (Temp Staking by P.L.S. Only)

**WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:**

- Monumentation (Section 629)  
 Control  
 Right of Way  
 Land corners, Aliquot corners  
 Easements  
 Reference the specified existing monuments: \_\_\_\_\_  
 Replace the specified existing monuments: \_\_\_\_\_  
 Locate monuments. It is estimated \_\_\_\_\_ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

\*\* A Tabulation of Survey Monuments may be provided on the plans.

**GENERAL NOTES:**

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer \_\_\_\_\_ days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDOT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 foot intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the information is collected electronically, information recorded shall be provided to the Project Engineer in a copy format that is intuitive, clear and related to the supplemental information recorded in the field book. Linear surveys, such as slope stakes and blue tops, shall have the station and offset information recorded. Measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
  - Horizontal Control (Primary & Secondary)
  - Vertical Control (i.e. Benchmarks)
  - Property Pin Ties
  - Horizontal Alignment
  - Grading
  - Slope Staking
  - Minor Structures
  - Major Structures
  - One fieldbook for each work category shown on this sheet
  - Other Fieldbook(s): \_\_\_\_\_
- The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
  - All required Instrument Calibrations

Plotted Date: 9/17/2025 12:54 PM Plotted By: Sarah Hemler  
 C:\Q-PROJECTS\ACTIVE PROJECTS\3002-CITY OF EVANS\37TH ST AND 65TH AVE INTERSECTION DESIGN\300-COMPUTER DESIGN FILES\302-SHEET FILES\SC-P3-001 SURVEY CONTROL TABULATION.DWG

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 Thornton, CO 80241  
 Ph: (303) 962-9300  
 Fax: (303) 962-9350

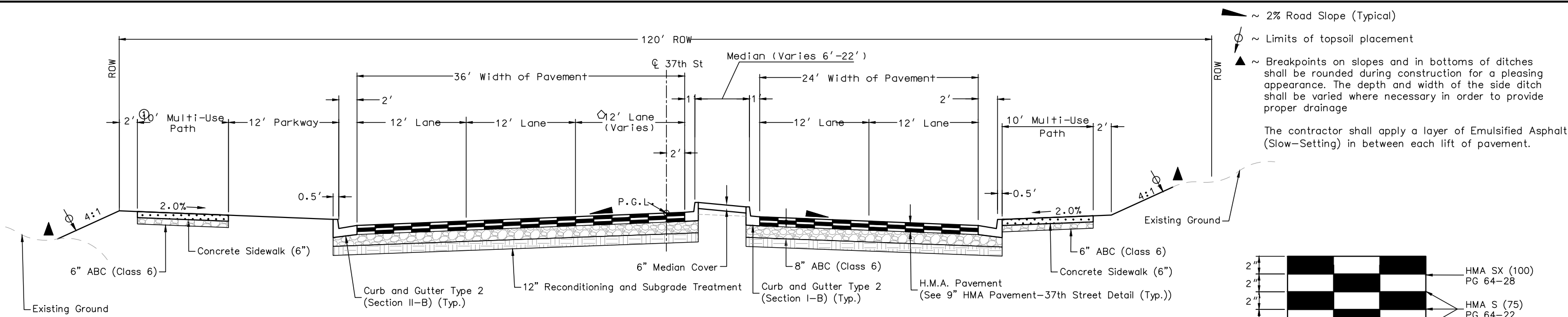
Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

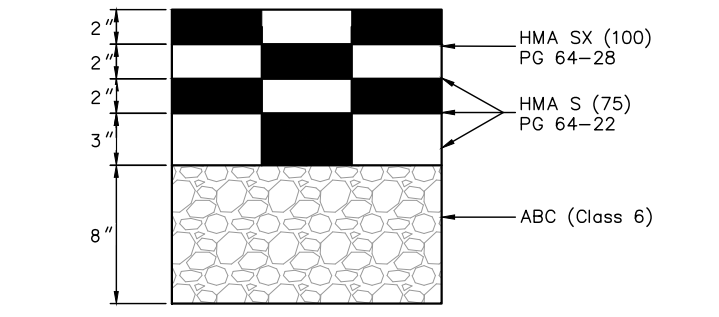
**37TH ST & 65TH AVE INTERSECTION SURVEY CONTROL TABULATION**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SURVCON TAB  
 Subset Sheets: 1 of 1

**Project No.**  
 STU M415-025  
 Drawing Number SC-001  
 Sheet Number 4

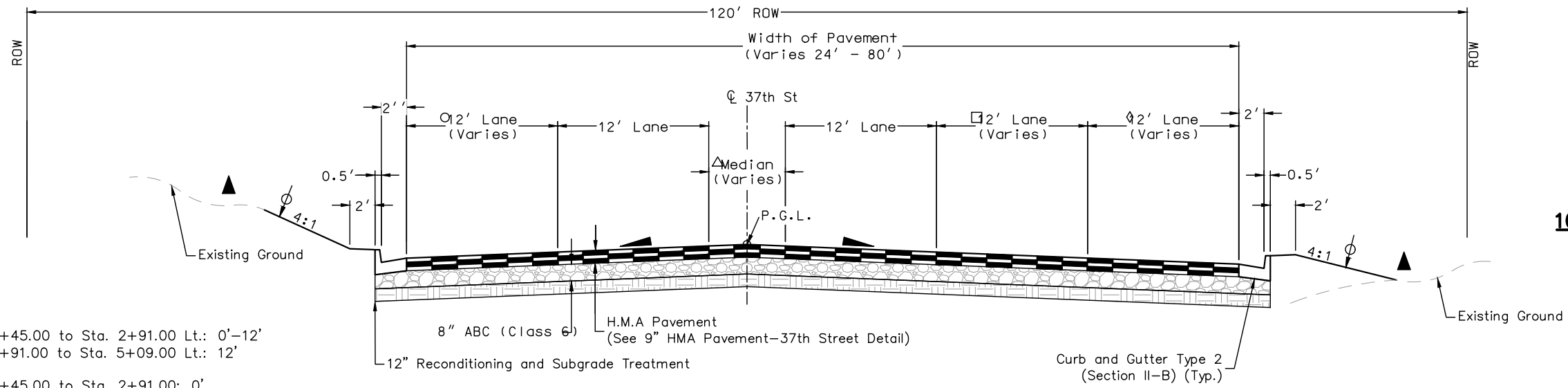


**TYPICAL SECTION ROADWAY 37TH STREET**  
 Sta. 5+52.00 to Sta. 7+84.00

- ◇ Sta. 5+52.00 to Sta. 6+64.00 Lt.: 12'
- Sta. 6+64.00 to Sta. 7+84.00 Lt.: 12'-0'
- ① Sta. 5+52.00 to Sta. 7+44.00: Use Existing Sidewalk

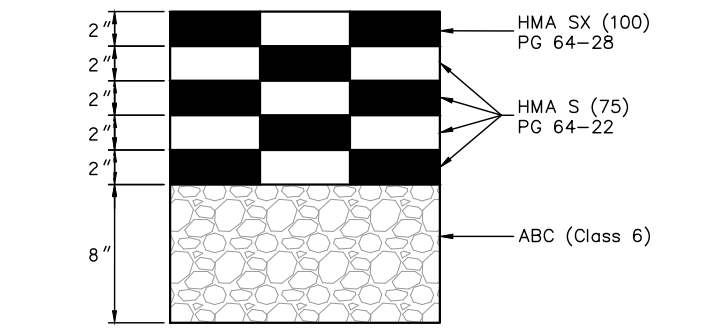


**9" HMA PAVEMENT SECTION - 37TH STREET**  
 Sta. 0+45.00 to Sta. 10+05.00  
 Sta. 17+55.00 to Sta. 32+26.00



**TYPICAL SECTION ROADWAY 37TH STREET**  
 Sta. 0+45.00 to Sta. 5+09.00

- Sta. 0+45.00 to Sta. 2+91.00 Lt.: 0'-12'
- Sta. 2+91.00 to Sta. 5+09.00 Lt.: 12'
- △ Sta. 0+45.00 to Sta. 2+91.00: 0'
- Sta. 2+91.00 to Sta. 5+09.00: 0'-20'
- Sta. 0+45.00 to Sta. 1+59.00 Rt.: 0'-12'
- Sta. 1+59.00 to Sta. 5+09.00 Rt.: 12'
- ◇ Sta. 0+45.00 to Sta. 1+59.00 Rt.: 0'
- Sta. 1+59.00 to Sta. 2+91.00 Rt.: 0'-12'
- Sta. 2+91.00 to Sta. 5+09.00 Rt.: 12'



**10" HMA PAVEMENT SECTION - INTERSECTION**  
 Sta. 10+55.00 to Sta. 17+55.00  
 Sta. 203+44.00 to Sta. 208+34.00

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Sheet Revisions		
Date	Comments	Initials



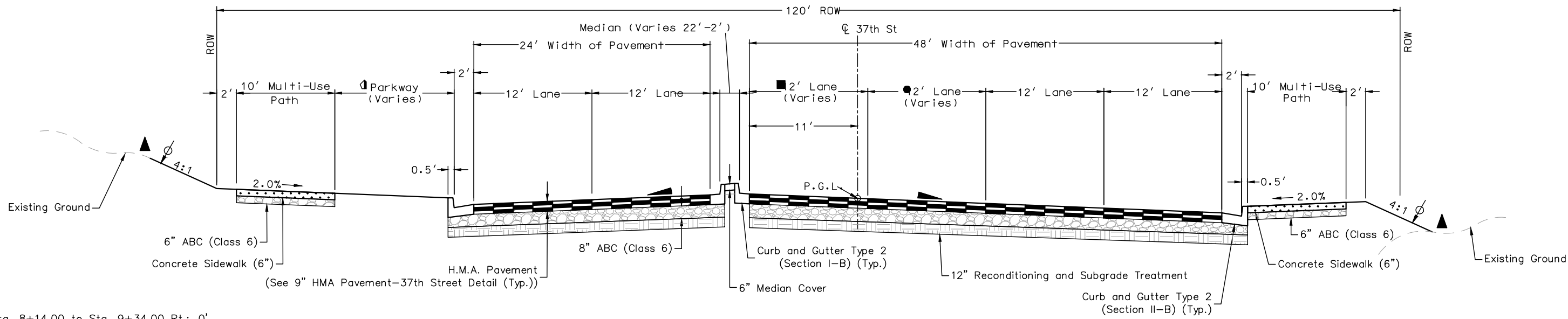
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No Revisions:
Revised:
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<b>37TH ST &amp; 65TH AVE INTERSECTION TYPICAL SECTIONS</b>	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: TYPICALS	Subset Sheets: 1 of 5

<b>Project No.</b>
STU M415-025
Drawing Number TYP-001
Sheet Number 5



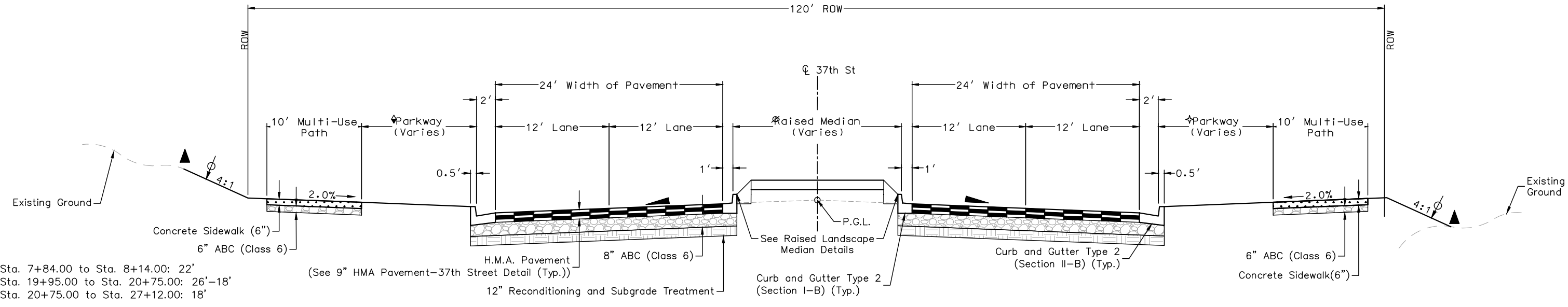
90% DRAFT PLANS



**TYPICAL SECTION ROADWAY 37TH STREET**  
Sta. 8+14.00 to Sta. 13+31.00

- Sta. 8+14.00 to Sta. 9+34.00 Rt.: 0'
- Sta. 9+34.00 to Sta. 10+54.00 Rt.: 0'-12'
- Sta. 10+54.00 to Sta. 13+17.00 Rt.: 12'
- Sta. 8+14.00 to Sta. 9+34.00 Rt.: 0'-12'
- Sta. 9+34.00 to Sta. 13+17.00 Rt.: 12'
- ◆ Sta. 8+14.00 to Sta. 9+25.00 Lt.: 12'
- Sta. 9+25.00 to Sta. 10+05.00 Lt.: 12'-0'
- Sta. 10+05.00 to Sta. 13+17.00 Lt.: 0'

- ~ 2% Road Slope (Typical)
  - ~ Limits of topsoil placement
  - ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage
- The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



**TYPICAL SECTION ROADWAY 37TH STREET**  
Sta. 7+84.00 to Sta. 8+14.00  
Sta. 19+95.00 to Sta. 27+12.00

- ∅ Sta. 7+84.00 to Sta. 8+14.00: 22'
- Sta. 19+95.00 to Sta. 20+75.00: 26'-18'
- Sta. 20+75.00 to Sta. 27+12.00: 18'
- ◆ Sta. 7+84.00 to Sta. 8+14.00 Lt.: 12'
- Sta. 19+95.00 to Sta. 20+75.00 Lt.: 8.5'-12'
- Sta. 20+75.00 to Sta. 27+12.00 Lt.: 12'
- ◆ Sta. 7+84.00 to Sta. 8+14.00 Rt.: 0'
- Sta. 19+95.00 to Sta. 20+75.00 Rt.: 0'-10'
- Sta. 20+75.00 to Sta. 27+12.00 Rt.: 10'

Note: For Sta. 5+09.00 to Sta. 5+52.00 see PLAN-002

90% DRAFT PLANS



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Date	Comments	Initials

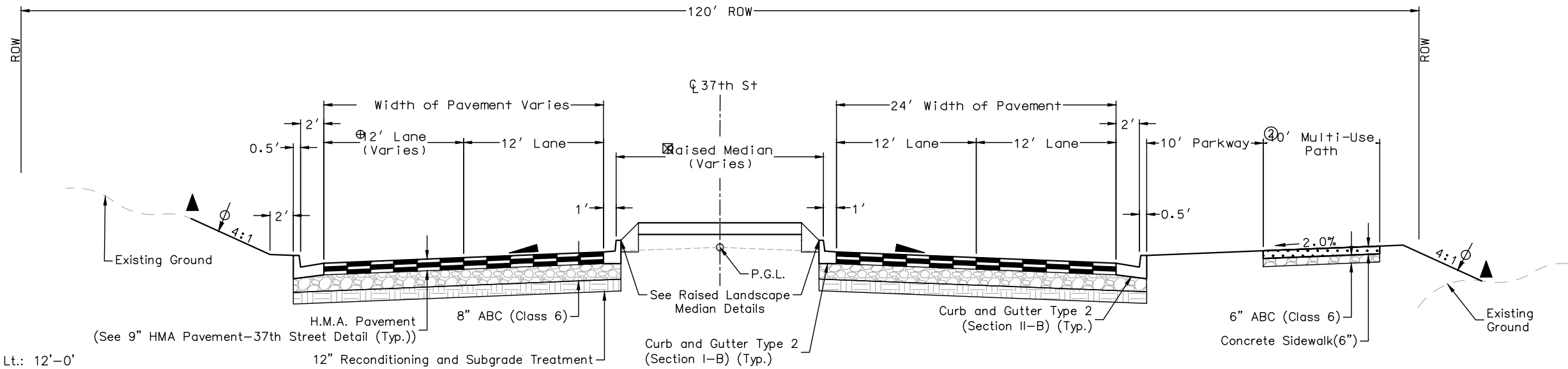


<b>As Constructed</b>	37TH ST & 65TH AVE INTERSECTION TYPICAL SECTIONS
No Revisions:	
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Void:	

Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler		
Sheet Subset:	TYPICALS	Subset Sheets:	2 of 5

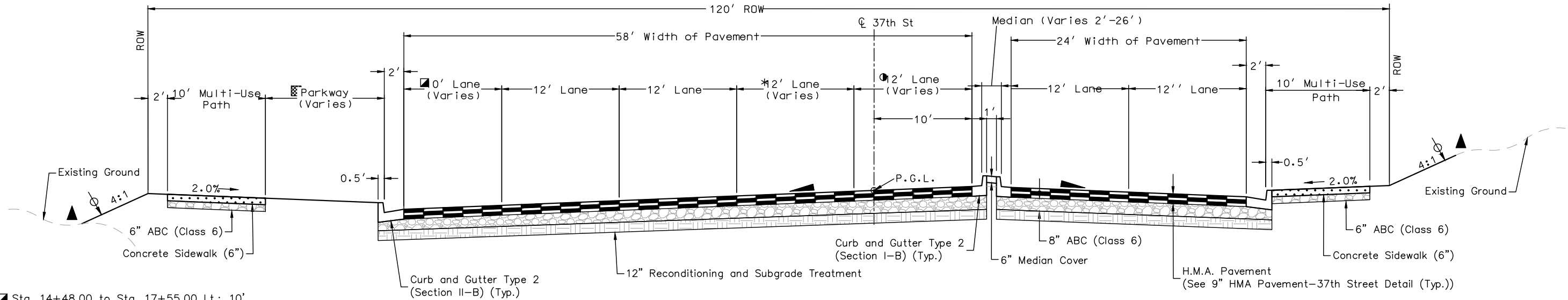
<b>Project No.</b>	STU M415-025
Drawing Number	TYP-002
Sheet Number	6

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- ⊕ Sta. 27+12.00 to Sta. 29+58.00 Lt.: 12'-0'
- Sta. 29+58.00 to Sta. 30+13.00 Lt.: 0'
- ⊗ Sta. 27+12.00 to Sta. 30+13.00: 28'-4'
- ② Multi-Use Path ends at Sta. 28+12.00

**TYPICAL SECTION ROADWAY 37TH STREET**  
Sta. 27+12.00 to Sta. 30+13.00



- Sta. 14+48.00 to Sta. 17+55.00 Lt.: 10'
- Sta. 17+55.00 to Sta. 18+75.00 Lt.: 10'-0'
- Sta. 18+75.00 to Sta. 19+95.00 Lt.: 0'
- \* Sta. 14+48.00 to Sta. 18+75.00 Lt.: 12'
- Sta. 18+75.00 to Sta. 19+95.00 Lt.: 12'-0'
- Sta. 14+48.00 to Sta. 17+55.00 Lt.: 12'
- Sta. 17+55.00 to Sta. 18+75.00 Lt.: 12'-0'
- Sta. 18+75.00 to Sta. 19+95.00 Lt.: 0'
- ⊗ Sta. 14+48.00 to Sta. 17+55.00 Lt.: 0'
- Sta. 17+55.00 to Sta. 18+75.00 Lt.: 0'-8.5'
- Sta. 18+75.00 to Sta. 19+95.00 Lt.: 8.5'

**TYPICAL SECTION ROADWAY 37TH STREET**  
Sta. 14+48.00 to Sta. 19+95.00

- ~ 2% Road Slope (Typical)
- ⊕ ~ Limits of topsoil placement
- ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage

The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.

Note: For Sta. 13+31.00 to Sta. 14+48.00 and Sta. 205+40.00 to Sta. 206+54.00 see PLAN-003



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Date	Comments	Initials



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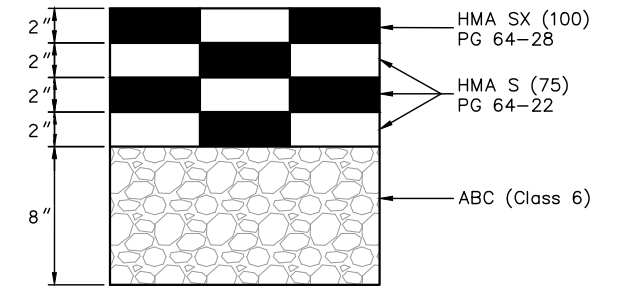
37TH ST & 65TH AVE INTERSECTION TYPICAL SECTIONS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	TYPICALS	Subset Sheets: 3 of 5

<b>Project No.</b>
STU M415-025
Drawing Number TYP-003
Sheet Number 7

90% DRAFT PLANS

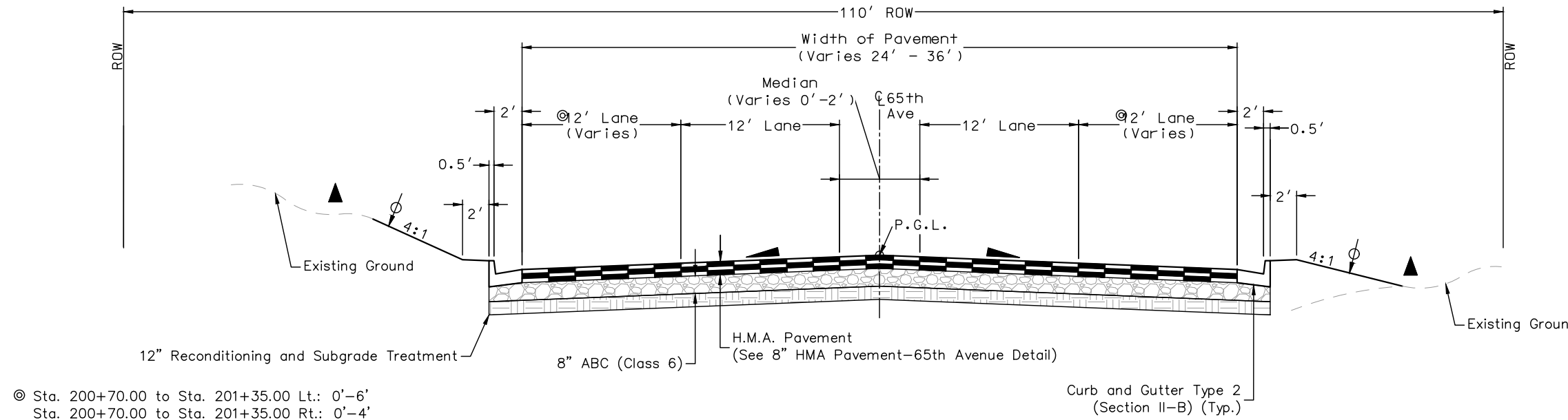
- ▲ ~ 2% Road Slope (Typical)
- ⊕ ~ Limits of topsoil placement
- ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage

The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



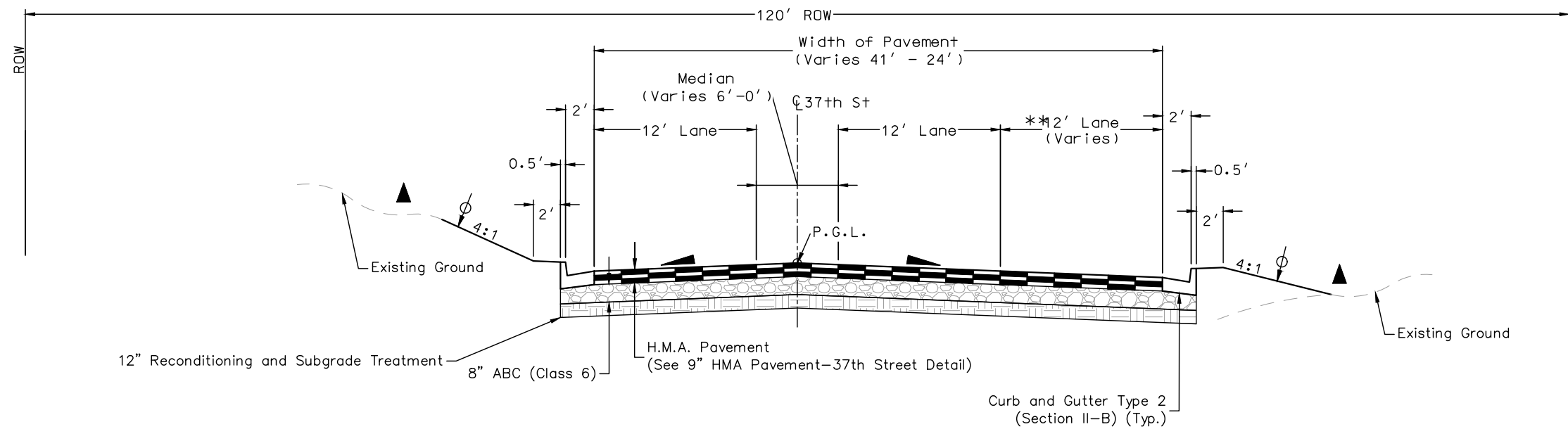
**8" HMA PAVEMENT SECTION - 65TH AVENUE**

Sta. 200+70.00 to Sta. 203+44.00  
Sta. 208+34.00 to Sta. 210+75.00



**TYPICAL SECTION ROADWAY 65TH AVENUE**

Sta. 200+70.00 to Sta. 201+35.00



**TYPICAL SECTION ROADWAY 37TH STREET**

Sta. 30+13.00 to Sta. 32+26.00

\*\*Sta. 29+67.00 to Sta. 32+26.00 Rt.: 12'-0'

90% DRAFT PLANS



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Date	Comments	Initials

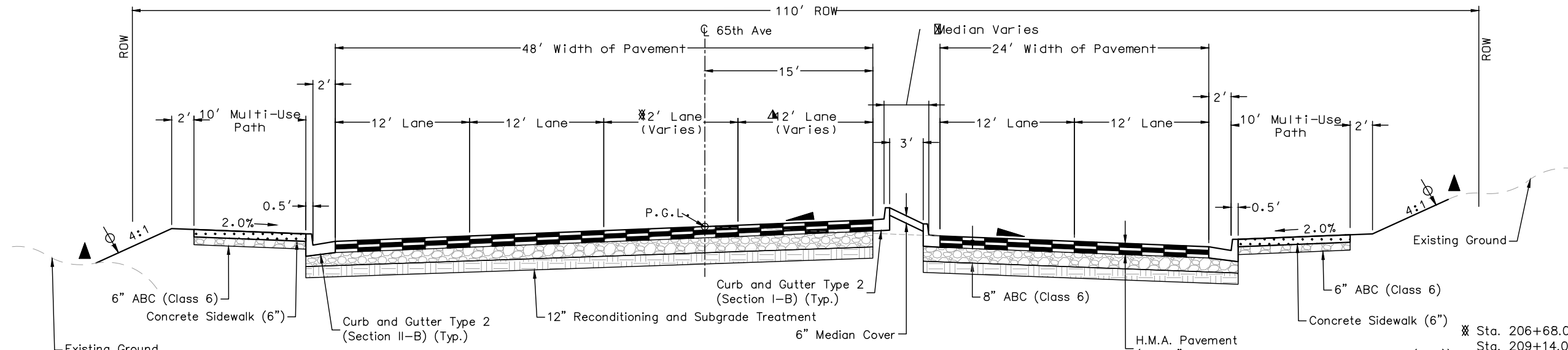


<b>As Constructed</b>
No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION TYPICAL SECTIONS</b>			
Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler		
Sheet Subset:	TYPICALS	Subset Sheets:	4 of 5

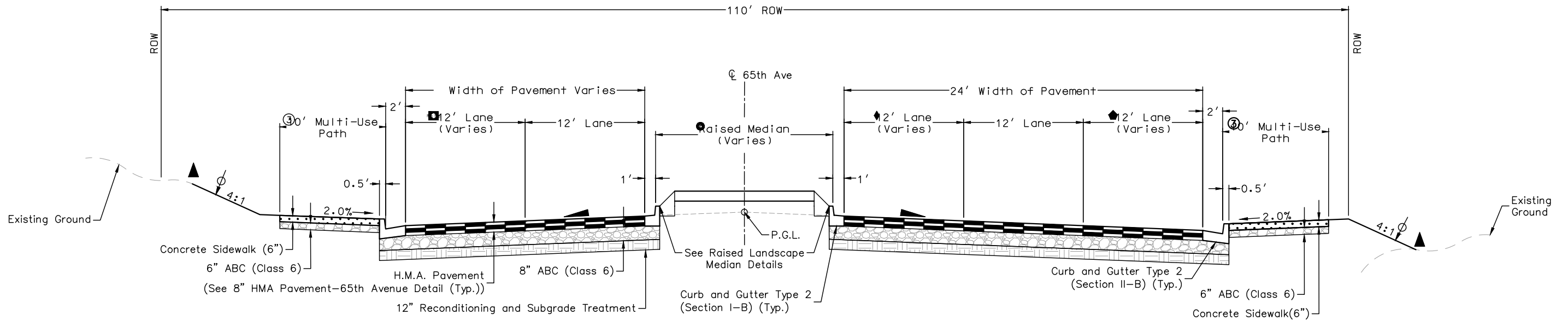
<b>Project No.</b>
STU M415-025
Drawing Number TYP-004
Sheet Number 8

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**TYPICAL SECTION ROADWAY 65TH AVENUE**  
Sta. 206+54.00 to Sta. 210+75.00

- ⊗ Sta. 206+68.00 to Sta. 209+14.00 Lt.: 12'
- Sta. 209+14.00 to Sta. 209+96.00 Lt.: 12'-0"
- Sta. 209+96.00 to Sta. 210+75.00 Lt.: 0'
- ▲ Sta. 206+68.00 to Sta. 208+34.00 Lt.: 12'
- Sta. 208+34.00 to Sta. 209+14.00 Lt.: 12'-0"
- Sta. 209+14.00 to Sta. 210+75.00 Lt.: 0'
- ⊠ Sta. 206+68.00 to Sta. 208+34.00: 4'
- Sta. 208+34.00 to Sta. 209+96.00: 4'-11.25'
- Sta. 209+96.00 to Sta. 210+75.00: 11.25'-4'



**TYPICAL SECTION ROADWAY 65TH AVENUE**  
Sta. 201+35.00 to Sta. 205+40.00

- ⊠ Sta. 201+35.00 to Sta. 203+45.00 Lt.: 2'-12'
- Sta. 203+45.00 to Sta. 205+32.00 Lt.: 12'
- ◆ Sta. 201+35.00 to Sta. 202+22.00 Rt.: 0'
- Sta. 202+22.00 to Sta. 203+44.00 Rt.: 0'-12'
- Sta. 203+44.00 to Sta. 205+32.00 Rt.: 12'
- Sta. 201+35.00 to Sta. 202+50.00: 4'-13.25'
- Sta. 202+50.00 to Sta. 203+44.00: 13.25'-16'
- Sta. 203+44.00 to Sta. 205+32.00: 16'
- ③ Sta. 203+44.00: Begin 10' Multi-Use Path Lt. and Rt, Match Existing
- Sta. 201+35.00 to Sta. 203+44.00 Use Existing Multi-Use Path
- ◆ Sta. 201+35.00 to Sta. 202+24.00 Rt.: 4'
- Sta. 202+24.00 to Sta. 203+44.00 Rt.: 4'-12'
- Sta. 203+44.00 to Sta. 205+32.00 Rt.: 12'

- ▲ ~ 2% Road Slope (Typical)
- ⊕ ~ Limits of topsoil placement
- ▲ ~ Breakpoints on slopes and in bottoms of ditches shall be rounded during construction for a pleasing appearance. The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage

The contractor shall apply a layer of Emulsified Asphalt (Slow-Setting) in between each lift of pavement.



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Date	Comments	Initials



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<b>37TH ST &amp; 65TH AVE INTERSECTION</b>	
<b>TYPICAL SECTIONS</b>	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: TYPICALS	Subset Sheets: 5 of 5

<b>Project No.</b>
STU M415-025
Drawing Number TYP-005
Sheet Number 9

Plotted By: Sarah Hemler  
 File Name: TYP P3-001 TYPICAL SECTIONS.DWG  
 Date: 9/17/2025 12:54 PM  
 Plot Date: 9/17/2025 12:54 PM  
 Plotter: HP DesignJet T1100e

90% DRAFT PLANS

**GENERAL CONSTRUCTION NOTES**

1. The general contractor shall give the City of Evans at least 48 hours advance notice before beginning construction. A pre-construction meeting with the City of Evans is the required method of notifying the City of construction activity.
2. All contractors and subcontractors shall have a set of approved construction documents on site at all times.
3. The general contractor shall call the utility notification center of Colorado (UNCC) at 1-(800)-922-1987, or the nationwide utility contact number (811), to request locates of all underground utilities at least 48 hours prior to commencement of any land disturbing activity.
4. All vertical and horizontal datum information should be obtained using the Evans geodetic survey conducted by Albers, Drexel & Pohly, Inc. January 9, 1998. A copy of final coordinates, elevations, and monument descriptions can be obtained by contacting the City of Evans engineering division at (970) 475 1160.
5. The general contractor shall be responsible for the locations and protection of all existing utilities shown, all existing utilities not shown, and all proposed utilities on these plans.
6. The Contractor shall limit construction activities to those areas within the limits of disturbance and/or toes of slopes shown on plans. Any disturbance beyond these limits shall be restored to original condition by the Contractor at the Contractor's expense. Construction activities in addition to normal construction procedure shall include the parking of vehicles or equipment, disposal of litter, and any other action which would alter existing conditions.
7. The general contractor shall obtain all necessary permits to complete work, and shall comply with all local, state, and federal regulations.
8. Identifying the need for a permit, preparing the application, and paying the submittal and review fees necessary to secure permits will be the total responsibility of the general contractor. A copy of all permits must be on site at all times.
9. All construction activities must comply with the State of Colorado permitting process for storm water discharge, associated with construction activity. For information, contact the Colorado Department of Public Health, and Environment, Water Quality Control Division, SQCD-PE-B2, 4300 Cherry Creek Drive South, Denver, Colorado 80246-1530, attention permits and enforcement section. (303) 692-3500. The water quality permitting page can be accessed at [www.cdphe.state.co.us/wq/permitsunit/wqcdpmt.html](http://www.cdphe.state.co.us/wq/permitsunit/wqcdpmt.html).
10. If dewatering is to be used, then a state construction dewatering discharge permit is required if discharge is into a storm sewer, channel, irrigation ditch, or any waters of the United States.
11. All work shall be performed in accordance with the recommendations of the geotechnical soils report and pavement design report, produced, or referenced for this project.
12. The general contractor shall perform the work according to all city, county, state, and federal safety and health regulations. In particular, the "trenching" and "open excavation" operations shall comply with all current O.S.H.A. Regulatory requirements.
13. All water line, sanitary sewer, and storm water construction shall conform to the City of Evans standards and specifications latest revision thereof. A current copy can be downloaded from the City of Evans website at [www.evanscolorado.gov](http://www.evanscolorado.gov).
14. All materials and construction shall conform to the City of Evans standards and specifications latest revision thereof. A current copy can be downloaded from the City of Evans website at [www.evanscolorado.gov](http://www.evanscolorado.gov).
15. The City of Evans follows all traffic control standards set forth in the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD).
16. A traffic control plan must be submitted and approved for any and all utility work performed within the City of Evans right-of-way. Traffic control plans can be emailed to the engineering division attention Mark Oberschmidt at [moberschmidt@evanscolorado.gov](mailto:moberschmidt@evanscolorado.gov)
17. All street lighting shall conform to the standards and specifications set forth in the City of Evans residential neighborhood design standards.
18. All plantings shall utilize the City of Evans parks and recreation approved landscaping planting list.
19. All seeding shall utilize the City of Evans irrigation design guidelines and the lawn and grass specifications section 02930.

20. There shall be no work performed on the weekends, or holidays except by approval of the City of Evans with a minimum of 24 hours notice.
21. The general contractor shall notify all residents in writing prior to any disruption in service. The notices must have the general contractors phone number and the name of a contact person, and emergency phone number for after hour calls. Notices shall not be left in mailboxes unless properly sent through the U.S. Post office.
22. The general contractor shall be responsible for obtaining their own disposal site for all disposed materials.
23. The engineer who has prepared these plans, by execution and/ or seal hereof does hereby affirm responsibility to the City of Evans, as a beneficiary of said engineer's work, for any errors or omissions contained in these plans. Acceptance of these plans by the City of Evans shall not relieve the engineer who has prepared these plans of such responsibility.
24. It is estimated that 1 sanitary facility will be required on this project.
25. It is estimated that 30 hours will be required for potholing. The contractor shall be responsible for contacting and coordinating with the appropriate utility representatives to be onsite during potholing and shall likewise be responsible for determining the type and location of underground utilities as maybe necessary to avoid damage thereto. The contractor shall refer to the utility specification for additional requirements.

**EROSION CONTROL NOTES**

1. Erosion control measures must be in place prior to any land disturbing activity commences.
2. A 20' x 20' concrete wash out area or approved equal shall be established near the exit to the site. The area shall be fenced with orange safety fencing on three sides and have an earthen berm, or depression cut into the grade to contain water and concrete from leaving the area. A sign directing all concrete trucks to the washout must be erected at all entrances to the site. The general contractor is responsible for removing all debris from the washout area prior to leaving the site once initial site construction is complete. Burying of the debris is strictly prohibited.
3. Silt fence or approved equal shall be placed along the downgradient perimeter of site.
4. Once final grading is complete, all areas disturbed by construction activities shall be ripped by a grader in corn furrow fashion, or seeded. The furrows shall be perpendicular to the grade of the land.
5. All areas disturbed by construction activities that will remain as outlots, open space, detention ponds, forebays, or trails shall receive 4 inches of top soil and shall be seeded. Soil preparation, fertilizer, compost, seeding, and mulching will be required. Seed tags will be collected by the City of Evans.
6. All seeding required by either the City of Evans engineering division, or planning division shall utilize the City of Evans irrigation design guidelines, lawn and grass specifications section 02930.
7. Grass seed shall be planted with a grass seed drill (not a grain drill) at a depth of 1/2" to 3/4". Broadcast seeding of grass seed is not acceptable. Straw mulch shall be spread and crimped into the soil at a rate of 4,000 lbs/acre. Hydroseeding and hydromulching is acceptable in lieu of drill seeding and crimping of mulch straw, only in areas that are inaccessible to landscaping equipment, and must be approved by the City of Evans prior to use.
8. The developer/owner is responsible for hiring a contractor to remove all temporary erosion control measures once construction is complete and all open space areas, outlots, detention ponds, forebays, and trail corridors are stabilized with at least 80 percent growth of seeded ground cover.
9. A vehicle tracking pad is to be placed and maintained by the general contractor at all access points into the construction site.
10. The general contractor shall be responsible for maintaining all erosion control measures and shall be responsible for any and all fines associated with the discharge of sediments, erosion, or pollutants leaving the site as a result of construction activity.
11. No soil stockpile shall exceed 10 feet in height. All soil stockpiles shall be protected from sediment transport by surface roughening, watering, and perimeter silt fencing or earthen berm. Any soil stockpiles remaining after three months from the commencement of construction activities shall be seeded with a temporary cover crop, or removed from the site.

Plot Date: 9/17/2025 12:55 PM Plotted By: Sarah Hemler  
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Sheet Revisions		
Date	Comments	Initials



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37TH ST & 65TH AVE INTERSECTION GENERAL NOTES			
Designer: T. Tuttle		Structure Numbers	
Detailer: S. Hemler			
Sheet Subset: NOTES		Subset Sheets: 1 of 4	

<b>Project No.</b>
STU M415-025
Drawing Number NT-001
Sheet Number 10

**GRADING NOTES**

1. Grades shown on plans are finished grades. For subgrade elevations, refer to the paving sections and details.
2. All work shall be performed in accordance with the recommendations of the geotechnical report produced, or referenced for this project.
3. All work shall be performed in accordance with the storm water discharge permit issued for this project.
4. Erosion control measures outlined on the erosion control/grading plan must be in place prior to commencement of any land disturbing activity. (stockpiling, stripping, grading, etc.).
5. All work shall be performed in accordance with the standards and specifications of the City of Evans, and the approved project construction documents.
6. The general contractor is responsible for verifying the plan alignment and grade in all roadways, parcels/lots, open spaces, ditches, swales, detention ponds, and forebays so that all drainage is directed in a positive flow to all drainage structures indicated on the construction plans at the completion of construction.
7. All utilities (non-potable water lines, potable water lines, sanitary sewer lines, storm drainage, dry utility crossings (gas, electric, telephone, and cable t.v.), manholes, and inlets) within the road right-of-way shall be installed prior to roadway subgrade preparation.
8. Subgrade shall be ripped, compacted, and shaped per City standards and specifications. The City of Evans engineering division shall be notified 24 hours in advance to schedule a proof roll of all subgrade where roadways, sidewalks, pans, aprons, curb and gutter, and other public improvements will be placed.
9. All parkways, and properties adjacent to sidewalks, shall be backfilled and compacted in a timely manner to prevent weather related standing water from entering the roadway subgrade. The general contractor shall be held liable for any and all damage caused by failure to backfill these areas in a timely manner.
10. Testing data by a third party testing company for compaction of all utility trenches, subgrade, and base material is to be submitted to the City of Evans in a timely manner. Email reports to the engineering division attention Mark Oberschmidt at moberschmidt@evanscolorado.gov
11. Moisture Density control will be required for the full depth of those embankments on this project. The base of fill areas should be scarified to a depth of not less than 6 inches and compacted to not less than 95% of maximum density ±2% of optimum moisture content as determined by AASHTO T99 or as recommended by a geotechnical engineer, prior to placement of embankment material.
12. The minimum thickness of topsoil shall be 4 inches.

**ROADWAY IMPROVEMENT NOTES**

1. All work shall be performed in accordance with the standards and specifications of the City of Evans, and the approved project documents.
2. Improvement projects which do not have a developer's agreement shall be required by the City of Evans to execute an application and permit for excavation / construction in public right of way.
3. Concrete and asphaltic mix design shall be submitted by the supplier and approved by the City of Evans prior to roadway construction.
4. All existing curb and gutter, sidewalk, and ADA ramps damaged during construction shall be repaired at the general contractor's expense, prior to acceptance of completed improvements.
5. When an existing street is to be cut, the street must be restored to a condition equal to or better than its original condition. Saw cuts should be a clean straight vertical line parallel or perpendicular to the flow of traffic. Patches shall be 1 inch greater in depth than the existing asphalt material that was removed or as directed by City.
6. All large patches (greater than 10' wide and 20' long) shall be paved with by an asphalt lay-down machine. In streets where more than one cut is made, an overlay of the entire street width, including the patched area may be required.

7. Street subgrades shall be scarified the top 12 inches and recompact prior to sub-base installation. No base material shall be laid until the subgrade has been inspected by scheduling a proof roll with the City of Evans, and approved by the City of Evans engineering division.
8. Prior to pavement installation base material shall be inspected by a proof roll scheduled with the City of Evans, and approved by the City of Evans engineering division.
9. Prior to paving an herbicide treatment shall be applied for all new paved areas. It is estimated that 4.0 acres of herbicide treatment will be needed.
10. Valve boxes, manholes, cleanouts, and survey monument boxes are required to be brought up to the subgrade level prior to pavement installation. All locations and distances of the valve boxes and manholes should be clearly labeled on the curb and gutter in white paint. Once the pavement is installed all valve boxes, manholes, cleanouts, and survey monument boxes shall be raised to ¼" below asphalt grade and have a one foot concrete collar installed around the outer diameter of the fittings.
11. Nuclear gauge testing data by a third party testing company for compaction and moisture content of all utility trenches, subgrade, and base material is to be submitted to the City of Evans in a timely manner. Email reports to moberschmidt@evanscolorado.gov. Engineering division.
12. Concrete curb and gutter, sidewalks, and street paving shall not begin until all testing data has been received by the City of Evans, and subgrade proof rolls accepted by the City of Evans engineering division has been completed.
13. It is estimated that 50 hours of proof rolling will be required on this project.
14. The general contractor shall maintain all necessary barricades, permanent signs, temporary signs, pavement markings, and other traffic control devices daily during construction and between phases of construction.
15. The roadway and related work areas shall be left with a clean and finished appearance. In no case shall material removed from the right-of-way be stockpiled and left in such a manner as to pose a hazard to the public. The general contractor shall remove all debris from the sidewalks, curb and gutters, pans, and driveways at the construction site and dispose of the debris in an appropriate location.
16. For preliminary plan quantities of pavement materials, the following rates of application were used:  
 Tack Coat Diluted Emulsified Asphalt.....@ 0.1 Gals./Sq. Yd.(Diluted)  
 Hot Mix Asphalt.....@ 110 Lbs./Sq. Yd./Inch  
 Aggregate Base Course.....@ 133 Lbs./Cu. Ft.
17. Diluted emulsified asphalt for tack coat shall consist of 1 part emulsified asphalt and 1 part water.
18. Water shall be used as a dust palliative where required. Locations shall be as directed by the Engineer.
19. The Contractor shall not park any vehicles or equipment in, or disturb any areas not approved by the Engineer.
20. Prior to placing bituminous pavement, the paved surface shall be swept and cleaned. This will not be paid for separately but shall be included in the cost of the Hot Mix Asphalt item.
21. The Contractor shall coordinate the shouldering operation such that full compliance to existing grades (3:1 or flatter slopes) is obtained on a daily basis following the paving operation for the affected area prior to opening the pavement to normal traffic operations unless otherwise approved by the Engineer.
22. Excavation required for compaction of bases of cuts and fills will be considered subsidiary to that operation and will not be paid for separately.
23. Where new pavement is to abut existing pavement, the existing pavement shall be removed to a neat vertical line using a cutting saw or other methods as approved by the Engineer, Saw cutting asphalt will not be paid for separately but shall be included in the cost of Removal of Asphalt Mat.
24. The Contractor shall protect all existing survey monumentation designated to remain from damage during construction operations. Any monuments disturbed by the Contractor that are not designated for relocation shall be reset at the Contractor's expense. The Contractor and Engineer shall note those monuments in the field prior to construction.

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37TH ST & 65TH AVE INTERSECTION GENERAL NOTES			
Designer: T. Tuttle		Structure Numbers	
Detailer: S. Hemler			
Sheet Subset: NOTES		Subset Sheets: 2 of 4	

<b>Project No.</b>
STU M415-025
Drawing Number NT-002
Sheet Number 11



90% DRAFT PLANS

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25. The following shall be furnished with each bituminous paver:
  - a. A ski type device at least 30 feet in length
  - b. Short ski or shoe
  - c. 1500 feet of control line and stakes
26. Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed
27. Millings shall become the property of the City of Evans and be delivered to 1800 40<sup>th</sup> Street.

**TRAFFIC SIGNING & PAVEMENT MARKING NOTES**

1. The City of Evans follows all traffic signage standards set forth in the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD) and CDOT's M&S standards.
2. Locations of existing signs are approximate. The general contractor shall coordinate with the City of Evans to determine if existing signs not shown on the construction plans shall be reset or removed.
3. All signs and pavement markings shall be furnished and installed in accordance with MUTCD standards.
4. The contractor installing the signs shall be responsible for locating and protecting all underground utilities.
5. Street and avenue signs shall be extruded aluminum 6" x 30" minimum, City of Evans standard reflective green background with white block lettering, city logo, and numbering.
6. All signs shall be mounted with vandal-proof bolts.
7. All signs shall be installed on perforated posts with anchors at the proper height as per current MUTCD standards.
8. Sign posts shall meet or exceed the following:
  - A. Posts – 1 3/4" x 1 3/4", 12 gauge, ASTM specification number A4446, grade A, drilled on 1" centers.
  - B. Anchors – 2" x 2", 12 gauge, ASTM specification number A4446, drilled on 1" centers.
  - C. All posts and anchors shall be galvanized to ASTM specification A52 coating designation G90.
9. The City of Evans follows all pavement marking standards set forth in the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD) and CDOT's M&S Standards.
10. All surfaces shall be thoroughly cleaned prior to installation of striping or markings to prepare the pavement surface for proper adhesion. All symbols, including arrows, onlays, crosswalks, stop bars, etc. shall be pre-formed thermoplastic per the City of Evans standards.
11. All pavement marking shall be retroreflective regardless of lighting.
12. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the surface or texture of the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. Under no circumstances shall black paint be used to cover existing markings, or mistakes in striping.

**CITY OF EVANS TRAFFIC SIGNAL NOTES**

1. Traffic signal materials and installation shall comply with the City of Evans engineering Standards and Specifications. Items not referenced in these documents shall conform to the latest editions of the CDOT standards and specifications for road and bridge construction, M&S plans, MUTCD, the national electric code and all local ordinances and regulations that apply, except as noted on the plans, standards special provisions, or project special provisions.
2. Conduit, pole, pull box, and controller cabinet locations are approximate. Exact locations shall be determined by the contractor and shall be verified by the City of Evans in the field. Traffic signal poles and mast arms shall not be ordered until the exact location of the pole bases is field verified. The contractor shall contact the City a minimum of 48 hours and a maximum of 96 hours prior to starting traffic signal construction.

3. The contractor shall furnish and install a metered electrical service pedestal at the location shown on the plans as directed by the City. The power source shall be determined by the City after meeting with XCEL Energy. The power source shall be identified on the construction plans. Power installation, including the service pedestal meter, shall meet XCEL Energy requirements. Pull separate wire for streetlights and tag "For XCEL Energy Street Light" at bottom of mast arm pole. Contractor shall extend electrical power from the power source to the new controller cabinet.
4. Payment shall be made only for items in the pay item list. All other items to provide a fully functional traffic signal installation shall be considered incidental to the work.
5. The contractor is responsible for obtaining all permits from the appropriate agencies. The contractor shall submit a traffic control plan for construction to the City with the permit application 72 hours in advance of construction. Clary power supply inverter through the UPS – SP series Part # SP 1250 LX, or SP2000 LX.
6. The Contractor shall provide the City with equipment specifications and descriptions and obtain approvals before ordering the equipment.
7. Upon completion of the work, the contractor shall submit as-builts and any additional data required by the city showing in detail all construction changes.
8. The controller shall be an Econolite COBALT rack mount controller with C1 connector. Traffic signal controllers shall be delivered to the City for inspection and programming at least 15 days prior to installation.
9. The controller cabinet shall be 332 D McCain controller cabinet - 30.3" Inside depth, LED lights with 24 VDC power supply, dual fans, 206L PDA supply, anti-graffiti epoxy gray coating, (2) Two shelves left side, GAS 2 protector, (2) Two MOV metal oxide varistor. The controller cabinet shall include an EDI 2018KCLip malfunction monitor unit (MMU). The controller cabinet shall include three (3) 242 DC Isolator, two (2) 204 solid state flasher, and twelve (12) 200 solid state switch pack. The controller cabinet shall include one (1) Opticom 752 phase selector. The controller cabinet shall be set to flash Red for all directions.
10. The controller cabinet shall include a Clary SP2000 LX uninterruptible power supply with auto generator bypass switch with plug and GFCI outlet, auto generator outside cabinet connection plug and cable, and six (6) Clary Outpost batteries.
11. Cabinet base shall be 332 D flat pad cabinet base – 6.5' length X 4.25' width, 6.5" height, fiberglass reinforced polymer concrete material.
12. All signal heads shall be black polycarbonate. All overhead signal indications shall have backplates. Backplates shall be louvered with 2-inch yellow retroreflective border tape that outlines the outside edge of each backplate. Traffic signal faces shall be McCain or approved equal.
13. Mast arm signal heads shall be mounted approximately level with one another, with a 17-to-19-foot clearance above grade at the highest pavement elevation. Mast arm mounted signal heads shall have a minimum 8-foot separation.
14. All vehicle and pedestrian indications shall be approved LED, non-glare type. All vehicle indications shall be 12-inch. All pedestrian indications shall be 16-inch clamshell countdown installed with a left or right mount as needed.
15. All signal heads shall be wired separately from signal head to handhole above grade at the base of the signal pole with no overhead splices. A separate 19-conductor cable shall run from the controller cabinet to the handhole at each pole with no splices.
16. Traffic signal indications mounted on mast arms shall be furnished with sky bracket mounting hardware.
17. All conduit shall be schedule 80 PVC. All conduit shall include a #12 locate wire and a mule tape pull line. All pull boxes shall be precast fiberglass reinforced polymer concrete (Quazite) or approved equal installed flush with the ground. The conduit for each run shall consist of one 2-inch conduit and one 3-inch conduit.
18. Luminaire shall be LED with light output equivalent to a 250 Watts HPS at a 30-foot mounting height unless otherwise approved. Luminaire orientation shall be installed as indicated on the plans. Wiring for luminaires shall be provided from the power source to the end of the luminaire arm. A breakaway incline fuse shall be provided at the handhole access at the base of the pole.



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<b>37TH ST &amp; 65TH AVE INTERSECTION GENERAL NOTES</b>			
Designer: T. Tuttle		Structure Numbers	
Detailer: S. Hemler			
Sheet Subset: NOTES		Subset Sheets: 3 of 4	

<b>Project No.</b>
STU M415-025
Drawing Number NT-003
Sheet Number 12

90% DRAFT PLANS

1. The signal shall not be turned on or started in flash until the City has inspected and approved the installation, as well as the appropriate pavement markings are in place, unless approved by the City.
2. Signal equipment to be salvaged shall be delivered to the City of Evans at 1800 40<sup>th</sup> St.
3. Traffic signal poles are to be galvanized F540 and painted powder coat gloss black. Mast arm is to be Mountain States Lighting horizontal mast arm Plumbizer.
4. Luminaires are to be Mountain States Lighting and XCEL Energy approved teardrop EVANS style epoxy gloss black 120W LED with quick disconnect 7-foot 12-gauge leads (black, white, green) and 7-foot dimming control leads (grey, violet) to be supplied. Luminaire arms shall be 15-feet in length.
5. Each pedestrian push button shall include a button, frame, and sign. The pedestrian push button shall be Polara Bulldog III black or approved equal, the push frame shall be Polara PN PBF 5X7-B, signs shall be R10-3e stick on type.
6. Radar sensors shall be Econolite EVO Radar detection system, with appropriate mounting brackets, and cables per the manufacturer.

**ENVIRONMENTAL NOTES:**

1. CDPS Stormwater Construction Permit  
This project has more than one acre of disturbance, therefore a CDPS-SCP permit is required. The contractor shall not commence permit-related work until the permit is received. Work performed must be consistent with that detailed in the stormwater management plan.
2. Burrowing Owls  
Burrowing owls are a state threatened species and are protected under the migratory bird treaty act. No human encroachment or disturbance within 150 feet of the nest site from March 15 through October 31. If project activities are to take place between these times, a burrowing owl survey must be completed by the contractor's biologist before construction activities take place. If burrowing owls are identified on or adjacent to the project, avoidance measures shall be followed as outlined above.

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37TH ST & 65TH AVE INTERSECTION GENERAL NOTES		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: NOTES	Subset Sheets: 4 of 4	

<b>Project No.</b>
STU M415-025
Drawing Number NT-004
Sheet Number 13

90% DRAFT PLANS

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			201-00000	Clearing and Grubbing	LS	1			1	
			202-00010	Removal of Tree	EACH	6			6	
			202-00019	Removal of Inlet	EACH	2			2	
			202-00035	Removal of Pipe	LF	608			608	
			202-00200	Removal of Sidewalk	SY	1,515			1,515	
			202-00203	Removal of Curb and Gutter	LF	1,154			1,154	
			202-00206	Removal of Concrete Curb Ramp	EACH	3			3	
			202-00210	Removal of Concrete Pavement	SY	582			582	
			202-00220	Removal of Asphalt Mat	SY	15,760			15,760	
			202-00222	Removal of Detour Pavement	SY	2,701			2,701	
			202-00250	Removal of Pavement Marking	SF	1,421			1,421	
			202-00810	Removal of Ground Sign	EACH	16			16	
			202-00828	Removal of Traffic Signal Equipment	LS	1			1	
			203-00010	Unclassified Excavation (Complete In Place)	CY	17,518			17,518	
			203-01100	Proof Rolling	HOUR	50			50	
			203-01500	Blading	HOUR	50			50	
			203-01550	Dozing	HOUR	50			50	
			203-01597	Potholing	HOUR	50			50	
			207-00205	Topsoil	CY					
			207-00405	Topsoil (Special)	CY					

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			208-00002	Erosion Log Type 1 (12 Inch)	LF	15,000			15,000	
			208-00020	Silt Fence	LF	3,000			3,000	
			208-00035	Aggregate Bag	LF	600			600	
			208-00046	Pre-fabricated Concrete Washout Structure (Type I)	EACH	4			4	
			208-00075	Pre-fabricated Vehicle Tracking Pad	EACH	4			4	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	200			200	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	200			200	
			208-00106	Sweeping (Sediment Removal)	HOUR	200			200	
			208-00107	Removal of Trash	HOUR	20			20	
			208-00207	Erosion Control Management (ECM)	DAY					
			210-00050	Reset Fire Hydrant	EACH	2			2	
			210-00810	Reset Ground Sign	EACH	1			1	
			210-01000	Reset Fence	LF	1,842			1,842	
			210-01710	Reset Valve	EACH	2			2	
			210-04010	Adjust Manhole	EACH	7			7	
			210-04015	Modify Manhole	EACH					
			212-00700	Organic Fertilizer	LB					
			212-00701	Compost (Mechanically Applied)	CY					
			212-00702	Biotic Soil Amnedments (Hydraulic Applied)	LB					
			212-00703	Humate	LB					

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**37TH ST & 65TH AVE INTERSECTION SUMMARY OF APPROXIMATE QUANTITIES**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SAQ  
 Structure Numbers  
 Subset Sheets: 1 of 4

**Project No.**  
 STU M415-025  
 Drawing Number SAQ-001  
 Sheet Number 14

90% DRAFT PLANS

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.	
			212-00706	Seeding (Native) Drill	ACRE						
			212-00708	Seeding (Native) Broadcast	ACRE						
			213-00003	Mulching (Weed Free)	ACRE						
			213-00012	Spray-on Mulch Blanket	ACRE						
			213-00061	Mulch Tackifier	LB						
			213-00067	Inorganic Mulch (1.5" to 3" Tan River Rock)(3" Depth)(Special)	SF						
			213-00150	Bonded Fiber Mix	ACRE	4			4		
			213-00318	18 Inch Root Barrier	LF						
			213-00440	Metal Landscape Border (1/8" x 4")	LF						
			213-00705	Landscape Boulder A (Siloam)(4'l. x 2'w. x 2'h.)(Special)	EACH						
			213-00705	Landscape Boulder B (Siloam)(3'l. x 2'w. x 2'h.)(Special)	EACH						
			213-00705	Landscape Boulder C (Siloam)(2'l. x 2'w. x 2'h.)(Special)	EACH						
			214-00220	Deciduous Tree (2" Cal.) - test	EACH						
			214-00230	Deciduous Ornamental Tree (1.5" Cal.)	EACH						
			214-00350	Deciduous Shrub (5 Gal.)	EACH						
			214-00650	Evergreen Shrub (5 Gal.)	EACH						
			214-00908	Ornamental Grasses and Perennials (1 Gal.)	EACH						
			217-00020	Herbicide Treatment	HOUR	40			40		
			304-06007	Aggregate Base Course (Class 6)	CY	7,948			7,948		
			403-33741	Hot Mix Asphalt (Grading S)(75)(PG 64-22)	TON	12,025			12,025		

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.	
			403-34851	Hot Mix Asphalt (Grading SX)(100)(PG 64-28)	TON	3,318			3,318		
			411-10255	Emulsified Asphalt (Slow Setting)	GAL	4,524			4,524		
			503-00054	Drilled Shaft	LF	82					
			603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	LF	1,270			1,270		
			603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF	594			594		
			603-01305	30 Inch Reinforced Concrete Pipe (Complete In Place)	LF	103					
			603-01365	36 Inch Reinforced Concrete Pipe (Complete In Place)	LF	342					
			603-01425	42 Inch Reinforced Concrete Pipe (Complete In Place)	LF	710			710		
			603-02245	30x19 Inch Reinforced Concrete Pipe Elliptical (Complete In Place)	LF	400					
			603-05024	24 Inch Reinforced Concrete End Section	EACH	1			1		
			603-05042	42 Inch Reinforced Concrete End Section	EACH	1			1		
			604-00310	Inlet Type C (10 Foot)	EACH	1					
			604-00510	Inlet Type D (10 Foot)	EACH	1					
			604-19205	Inlet Type R L 10 (5 Foot)	EACH	1			1		
			604-19210	Inlet Type R L 10 (10 Foot)	EACH	9			9		
			604-19305	Inlet Type R L 15 (5 Foot)	EACH	1			1		
			604-19310	Inlet Type R L 15 (10 Foot)	EACH	3			3		
			604-19315	Inlet Type R L 15 (15 Foot)	EACH	1			1		
			604-196XX	Inlet (Filter System)	EACH	15			15		
			604-31005	Manhole Box Base (5 Foot)	EACH	2			2		

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**37TH ST & 65TH AVE INTERSECTION SUMMARY OF APPROXIMATE QUANTITIES**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SAQ  
 Structure Numbers:   
 Subset Sheets: 2 of 4

**Project No.**  
 STU M415-025  
 Drawing Number SAQ-002  
 Sheet Number 15

90% DRAFT PLANS

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			604-31010	Manhole Box Base (10 Foot)	EACH	7			7	
			604-31015	Manhole Box Base (15 Foot)	EACH	3			3	
			607-11525	Fence (Plastic)	LF	500			500	
			608-00001	Concrete Sidewalk (8 Inch)	SY	261			261	
			608-00006	Concrete Sidewalk (6 Inch)	SY	5,439			5,439	
			608-00010	Concrete Curb Ramp	SY	146			146	
			609-21010	Curb and Gutter Type 2 (Section I-B)	LF	6,294.0			6,294	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	7,804			7,804	
			610-00026	Median Cover Material (6 Inch Patterned Concrete)	SF	12,910			12,910	
			613-00200	2 Inch Electrical Conduit	LF	371.0			371	
			613-00300	3 Inch Electrical Conduit	LF	371			371	
			613-07034	Pull Box (24"x36"x18")	EACH	4			4	
			613-10000	Wiring	LS	1				
			613-13006	15' Luminaire Arm	EACH	4				
			613-50109	Power Meter Pedestal	EACH	1			1	
			613-80130	Service Meter Cabinet	EACH	1				
			614-00011	Sign Panel (Class 1)	SF	289			289	
			614-00214	Steel Sign Post (1.75x1.75 Inch Tubing)	LF	316			316	
			614-70117	Pedestrian Signal Face (16)	EACH	8			8	
			614-70336	Traffic Signal Face (12-12-12)	EACH	20			20	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			614-70448	Traffic Signal Face (12-12-12-12)	EACH	2			2	
			614-72855	Traffic Signal Controller Cabinet	EACH	1			1	
			614-72860	Pedestrian Push Button	EACH	8			8	
			614-72863	Pedestrian Push Button Post Assembly	EACH	8			8	
			614-72864	Fire Preemption Unit	EACH	2			2	
			614-72887	Microwave Vehicle Radar Detector	EACH	4			4	
			614-81170	Traffic Signal - Light Pole Steel (1-70 Foot Mast Arm)	EACH	4			4	
			614-86000	Traffic Signal Controller	EACH	1			1	
			614-87333	Closed Circuit Television (Traffic Surveillance)	EACH	1				
			620-00020	Sanitary Facility	EACH	1			1	
			621-00450	Detour Pavement	SY	2,500			2,500	
			623-09900	Irrigation System	LS					
			625-00000	Construction Surveying	LS	1			1	
			626-00000	Mobilization	LS	1			1	
			626-01104	Public Information Services (Tier IV)	LS	1			1	
			627-00008	Modified Epoxy Pavement Marking	GAL	37			37	
			627-00013	Pavement Marking Paint (High Build)	GAL	70			70	
			627-30405	Preformed Thermoplastic Pavement Marking (Word-Symbol)	SF	812			812	
			627-30410	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line)	SF	1,284			1,284	
			629-01004	Survey Monument (Type 4)	EACH					

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 File Name: SAQ P3-001 SUMMARY OF APPROX QUANTITIES.DWG  
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Sheet Revisions		
Date	Comments	Initials



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**37TH ST & 65TH AVE INTERSECTION SUMMARY OF APPROXIMATE QUANTITIES**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SAQ  
 Structure Numbers  
 Subset Sheets: 3 of 4

**Project No.**  
 STU M415-025  
 Drawing Number SAQ-003  
 Sheet Number 16

90% DRAFT PLANS

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.		PLAN	AS CONST.
			629-01031	Survey Monument (Type 3A)	EACH					
			630-00000	Flagging	HOUR	800			800	
			630-00003	Uniformed Traffic Control	HOUR	60			60	
			630-00007	Traffic Control Inspection	DAY	36			36	
			630-00012	Traffic Control Management	DAY	90			90	
			630-80335	Barricade (Type 3M-A) (Temporary)	EACH	4			4	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	64			64	
			630-80350	Vertical Panel	EACH	30			30	
			630-80355	Portable Message Sign Panel	EACH	4			4	
			630-80356	Advance Warning Sequencing Arrow Panel (A Type)	EACH	2			2	
			630-80360	Drum Channelizing Device	EACH	125			125	
			630-80380	Traffic Cone	EACH	150			150	
			700-	F/A Irrigation	F A	1			1	
			700-70010	F/A Minor Contract Revisions	F A	1			1	
			700-70380	F/A Erosion Control	F A	1			1	

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**37TH ST & 65TH AVE INTERSECTION SUMMARY OF APPROXIMATE QUANTITIES**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SAQ  
 Structure Numbers  
 Subset Sheets: 4 of 4

**Project No.**  
 STU M415-025  
 Drawing Number SAQ-004  
 Sheet Number 17

90% DRAFT PLANS

Plot Date: 9/17/2025 12:55 PM Plotted By: Sarah Hamler  
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SUMMARY OF EARTHWORK QUANTITIES	
<b>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) (NET)</b>	<b>CUBIC YARDS</b>
FOR ROADWAY	15,748
**ROAD APPROACHES	20
**FOR MANHOLES/INLETS/PIPES	1,751
<b>TOTAL</b>	<b>17,518</b>
<b>FOR INFORMATION ONLY</b>	
<b>EMBANKMENT MATERIAL</b>	<b>CUBIC YARDS</b>
FOR ROADWAY	6,566
**FOR ROAD APPROACHES	20
**FOR MANHOLES/INLETS/PIPES	2,626
<b>TOTAL</b>	<b>9,212</b>
<b>EARTHWORK QUANTITIES BALANCE</b>	
<b>UNCLASSIFIED EXCAVATION</b>	<b>CUBIC YARDS</b>
TOTAL UNCLASSIFIED EXCAVATION	17,518
<b>TOTAL</b>	<b>17,518</b>
<b>EMBANKMENT (NET)</b>	
<b>TOTAL</b>	9,212
<b>*TOTAL EXCESS MATERIAL</b>	<b>8,306</b>

TABULATION OF PAVEMENT ITEMS				
STATION	HOT MIX ASPHALT PAVING		EMULSIFIED ASPHALT (SLOW-SETTING)	AGGREGATE BASE COURSE (CLASS 6)
	HOT MIX ASPHALT (GRADING SX) (100) (PG 64-28)	HOT MIX ASPHALT (GRADING S) (75) (PG 64-22)		
	TONS	TONS	GAL	CY
37th Street				
0+45.00 - 10+55.00			987	1,783
1st Lift	724			
2nd Lift		724		
3rd Lift		724		
4th Lift		1,086		
37th & 65th Intersection				
10+55.00 - 17+55.00			1,392	2,593
203+44.00 - 208+34.00				
1st Lift	1021			
2nd Lift		1,021		
3rd Lift		1,531		
4th Lift		1,531		
37th Street				
17+55.00 - 32+26.00			1,142	2,335
1st Lift	838			
2nd Lift		838		
3rd Lift		838		
4th Lift		1,256		
65th Avenue				
200+70.00 - 203+44.00			183	26
1st Lift	134			
2nd Lift		134		
3rd Lift		134		
4th Lift		134		
65th Avenue				
208+34.00 - 210+75.00			230	450
1st Lift	169			
2nd Lift		169		
3rd Lift		169		
4th Lift		169		
Road Approaches				
208+25.00				12
208+82.00				26
<b>SUBTOTAL</b>	<b>2,885</b>	<b>10,457</b>	<b>3,934</b>	<b>7,225</b>
Irregularities (15%)	433	1,569	590	
Irregularities (10%)				723
<b>TOTAL</b>	<b>3,318</b>	<b>12,025</b>	<b>4,524</b>	<b>7,948</b>

90% DRAFT PLANS



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**37TH ST & 65TH AVE INTERSECTION TABULATIONS**

Designer: T. Tuttle	Structure Numbers:
Detailer: S. Hemler	
Sheet Subset: TABS	Subset Sheets: 1 of 6

**Project No.**  
 STU M415-025  
 Drawing Number TAB-001  
 Sheet Number 18

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TABULATION OF CONCRETE ITEMS								
STATION	SIDE	CONCRETE SIDEWALK (6 INCH)	CONCRETE SIDEWALK (8 INCH)	CONCRETE CURB RAMP	CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB AND GUTTER TYPE 2 (SECTION II-B)	MEDIAN COVER MATERIAL (6 INCH PATTERNED CONCRETE)	REMARKS
		SY	SY	SY	LF	LF	SF	
37th Street								
0+45.00 - 32+26.00	Lt.	2,287		36		3,047		
	Rt.	2,093		38		3,045		
	Total				4,672		8,978	
65th Avenue								
200+70.00 - 210+75.00	Lt.	473		36		854		
	Rt.	586		36		858		
	Total				1,621		3,932	
Road Approaches								
204+11.00	Lt.		34					
208+25.00	Rt.		70					
208+82.00	Lt.		158					
	Total	5,439	261	146	6,294	7,804	12,910	

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Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION TABULATIONS</b>		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler	Subset Sheets: 2 of 6	
Sheet Subset: TABS		

<b>Project No.</b>
STU M415-025
Drawing Number TAB-002
Sheet Number 19



90% DRAFT PLANS

**TABULATION OF REMOVALS, RESETS, AND ADJUSTMENTS**

STATION	SIDE	REMOVAL OF TREE (202-00010)	REMOVAL OF INLET (202-00019)	REMOVAL OF PIPE (202-00035)	REMOVAL OF SIDEWALK (202-00200)	REMOVAL OF CURB AND GUTTER (202-00203)	REMOVAL OF CONCRETE CURB RAMP (202-00206)	REMOVAL OF CONCRETE PAVEMENT (202-00210)	REMOVAL OF ASPHALT MAT (202-00220)	REMOVAL OF DETOUR PAVEMENT (202-00222)	REMOVAL OF PAVEMENT MARKING (202-00250)	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT (202-00828)	RESET FIRE HYDRANT (210-00050)	RESET FENCE (210-01000)	RESET VALVE (210-01710)	ADJUST MANHOLE (210-04010)	REMARKS
		EA	EA	LF	SY	LF	EA	SY	SY	SY	SF	LS	EA	LF	EA	EA	
37TH ST												1					
-1+26.50 - 1+44.76	RT									192							
-1+26.50 - 4+90.83	LT									506							
0+03.84 - 1+01.63	RT																
0+45.00 - 13+73.52	LT/RT								4,836								
4+63.90 - 13+26.67	LT												863				
4+94.27 - 5+72.55	RT			79													
5+25.28	LT															1	
5+89.40 - 10+16.45	LT										285						Double Yellow (2 x 4")
7+43.97 - 13+51.54	RT		1		607	222	1	11									
8+21.80	LT															1	
9+99.09	LT														1		
11+02.22	LT															1	
11+11.02 - 11+17.64	LT/RT			133													
13+26.76	LT												1				
13+73.52 - 32+26.00	LT/RT								6,020								
14+29.19	RT												1				
14+39.97 - 14+40.37	LT/RT			59													
14+43.46 - 21+82.19	LT													751			
19+86.52 - 32+50.00	LT										982						Double Yellow (2 x 4")
20+44.79 - 32+16.32	RT									895							
25+96.58	LT	1															
26+24.89	LT	1															
26+56.18	LT	1															
26+92.37	LT	1															
27+08.98	LT	1															
27+12.55 - 34+71.86	LT									645							
28+11.35 - 34+71.86	RT									463							
37TH ST SUBTOTAL		5	1	271	607	222	1	11	10,856	2,701	1,267	1	2	1,614	1	3	



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**37TH ST & 65TH AVE INTERSECTION  
 TABULATIONS**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TABS

Structure Numbers  
 Subset Sheets: 3 of 6

**Project No.**  
 STU M415-025

Drawing Number TAB-003  
 Sheet Number 20

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90% DRAFT PLANS

**TABULATION OF REMOVALS, RESETS, AND ADJUSTMENTS**

STATION	SIDE	REMOVAL OF TREE (202-00010)	REMOVAL OF INLET (202-00019)	REMOVAL OF PIPE (202-00035)	REMOVAL OF SIDEWALK (202-00200)	REMOVAL OF CURB AND GUTTER (202-00203)	REMOVAL OF CONCRETE CURB RAMP (202-00206)	REMOVAL OF CONCRETE PAVEMENT (202-00210)	REMOVAL OF ASPHALT MAT (202-00220)	REMOVAL OF DETOUR PAVEMENT (202-00222)	REMOVAL OF PAVEMENT MARKING (202-00250)	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT (202-00828)	RESET FIRE HYDRANT (210-00050)	RESET FENCE (210-01000)	RESET VALVE (210-01710)	ADJUST MANHOLE (210-04010)	REMARKS
		EA	EA	LF	SY	LF	EA	SY	SY	SY	SF	LS	EA	LF	EA	EA	
65TH AVE																	
200+70.00 - 205+96.47	LT/RT								1,979								
203+50.51 - 205+70.41	LT				143			43									
203+50.66 - 206+85.06	LT			337												1	
204+88.78 - 205+52.34	LT													64			
206+32.14 - 210+74.26	LT				382	468	1	181									
206+32.09 - 210+72.58	RT				383	464	1	347									
206+46.79 - 211+08.75	LT										154						White Dashed and Solid (4")
206+52.77	RT		1														
205+96.47 - 210+75.00	LT/RT								2,925								
207+62.67	RT	1															
208+04.49	LT															1	
208+27.90	LT															1	
209+20.85 - 210+75.28	LT													164			
209+56.58	LT															1	
209+65.73	RT														1		
65TH AVE SUBTOTAL		1	1	337	908	932	2	571	4,904	0	154	0	0	228	1	4	
37TH ST SUBTOTAL		5	1	271	607	222	1	11	10,856	2,701	1,267	1	2	1,614	1	3	
<b>TOTAL</b>		6	2	608	1,515	1,154	3	582	15,760	2,701	1,421	1	2	1,842	2	7	

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**37TH ST & 65TH AVE INTERSECTION TABULATIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TABS  
 Structure Numbers  
 Subset Sheets: 4 of 6

**Project No.**  
 STU M415-025  
 Drawing Number TAB-004  
 Sheet Number 21



90% DRAFT PLANS

**TABULATION OF STRUCTURE QUANTITIES**

NOTE NO.	STATION AND OFFSET	REINFORCED CONCRETE PIPE (CIP)					REINFORCED CONCRETE ELLIPTICAL PIPE (CIP)	REINFORCED CONCRETE END SECTION (CIP)		INLET TYPE C (10 FOOT)	INLET TYPE D (10 FOOT)	INLET TYPE L 10 (5 FOOT)	INLET TYPE R L 10 (10 FOOT)	INLET TYPE L 15 (5 FOOT)	INLET TYPE R L 15 (10 FOOT)	INLET TYPE R L 15 (15 FOOT)	MANHOLE BOX BASE (5 FOOT)	MANHOLE BOX BASE (10 FOOT)	MANHOLE BOX BASE (15 FOOT)	REMARKS
		LF					LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
		18''	24''	30''	36''	42''	19"X30"	24"	42''	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
IN 2B	9+08.79, 34.00' Lt.													1						
P14		199.8																		
MH-10	11+07.07, 45.81' Rt.																	1		
P26			66.2																	
MH-9	11+15.44, 19.82' Lt.																	1		
P13					188.0															
IN 1C-2	12+66.19, 43.90' Rt.												1							
P25		26.3																		
IN 2C	12+99.30, 35.90' Lt.														1					
P22			15.7																	
MH-8	13+03.41, 22.95' Lt.																	1		
P23			69.2																	
IN 1C-1	13+02.53, 44.11' Rt.												1							
P24		42.3																		
IN 3B	205+21.54, 37.70' Lt.												1							
P12					154.4															
IN 4B	205+20.31, 44.36' Rt.														1					
P21		42.4																		
P11						26.3														
MH-6	14+57.78, 23.58' Lt.																	1		
P18				70.0																
IN 5D-1	14+56.66, 44.24' Rt.												1							
P20				33.1																
IN 0S-1	14+61.77, 80.37' Rt.									1										
P19		26.3																		
IN 5D-2	14+92.99, 44.20 Rt.												1							
P15			280.3																	
MH-7	17+46.57, 54.78' Lt.																	1		
P16		172.3																		
IN 5C	19+15.52, 43.67' Rt.												1							
P17		84.5																		
IN 6C	19+25.62, 36.36 Lt.														1					
IN 6B	27+40.61, 37.37' Lt.												1							
P4		84.3																		
IN 5B	27+40.77, 42.63' Rt.												1							
P3		211.5																		
MH-2	29+58.60, 33.96' Lt.																	1		
P2		211.5																		
MH-1	31+69.29, 29.57' Lt.																	1		
P5		12.7																		
IN 6A	31+69.33, 14.69' Lt.												1							
P6		35.6																		
IN 5A	31+65.03, 16.34' Rt.											1								
SUBTOTAL		1150	431	103	342	26	0	0	0	0	1	1	9	1	3	0	1	5	1	

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**37TH ST & 65TH AVE INTERSECTION TABULATIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TABS  
 Structure Numbers  
 Subset Sheets: 5 of 6

**Project No.**  
 STU M415-025  
 Drawing Number TAB-005  
 Sheet Number 22

90% DRAFT PLANS

**TABULATION OF STRUCTURE QUANTITIES**

NOTE NO.	STATION AND OFFSET	REINFORCED CONCRETE PIPE (CIP)					REINFORCED CONCRETE ELLIPTICAL PIPE (CIP)	REINFORCED CONCRETE END SECTION (CIP)		INLET TYPE C (10 FOOT)	INLET TYPE D (10 FOOT)	INLET TYPE R L 10 (5 FOOT)	INLET TYPE R L 10 (10 FOOT)	INLET TYPE R L 15 (5 FOOT)	INLET TYPE R L 15 (10 FOOT)	INLET TYPE R L 15 (15 FOOT)	MANHOLE BOX BASE (5 FOOT)	MANHOLE BOX BASE (10 FOOT)	MANHOLE BOX BASE (15 FOOT)	REMARKS
		LF					LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
		18''	24''	30"	36''	42"	19"X30"	24"	42''											
P1			162.6																	
FES-1								1												
IN OS-2	200+46.09, 28.84' Lt.									1										
P28		120.0																		
MH-12	201+64.10, 28.66' Lt.																1			
P27						400.0														
MH-11	205+64.10, 27.14' Lt.															1				
IN 6D	14+58.80, 47.71' Lt.													1						
P10					12.4															
MH-5	206+64.96, 80.68' Rt.																	1		
P9					32.8															
MH-4	206+83.86, 53.82' Rt.																	1		
P8					382.8															
MH-3	210+61.65, 61.31' Rt.																1			
P7					255.6															
FES-2								1												
SUBTOTAL		120	163	0	0	684	400	1	1	1	0	0	0	0	1	1	2	2		
SUBTOTAL FROM PREVIOUS SHEET		1150	431	103	342	26	0	0	0	0	1	1	9	1	3	0	1	5	1	
TOTAL		1270	594	103	342	710	400	1	1	1	1	1	9	1	3	1	2	7	3	

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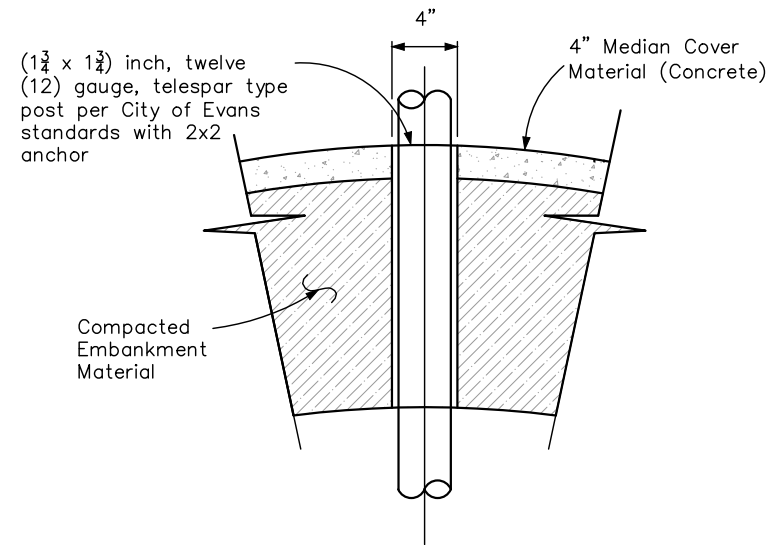


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**37TH ST & 65TH AVE INTERSECTION TABULATIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TABS  
 Structure Numbers  
 Subset Sheets: 6 of 6

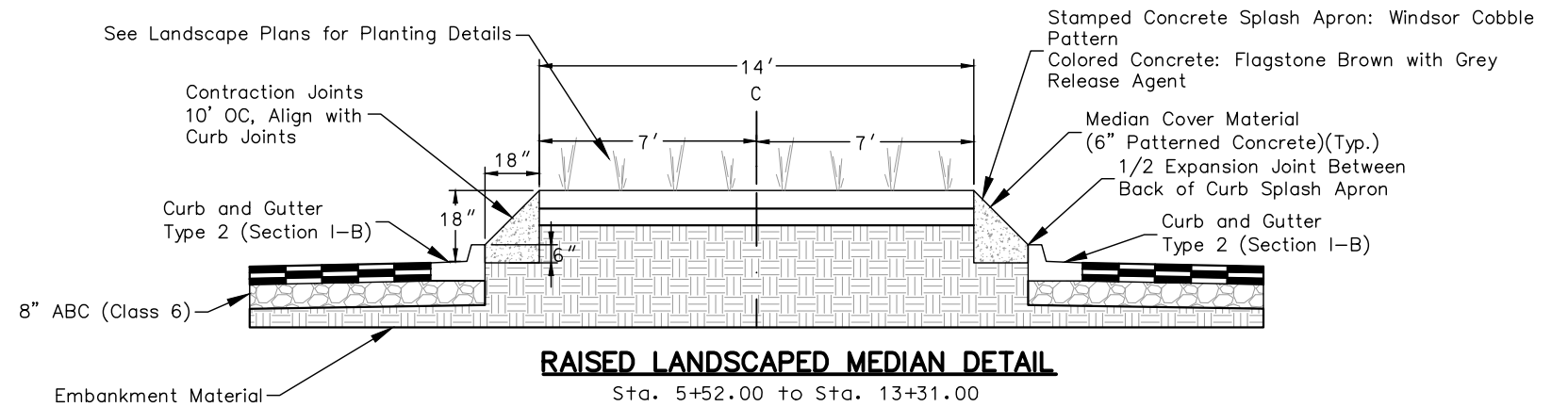
**Project No.**  
 STU M415-025  
 Drawing Number TAB-006  
 Sheet Number 23

90% DRAFT PLANS



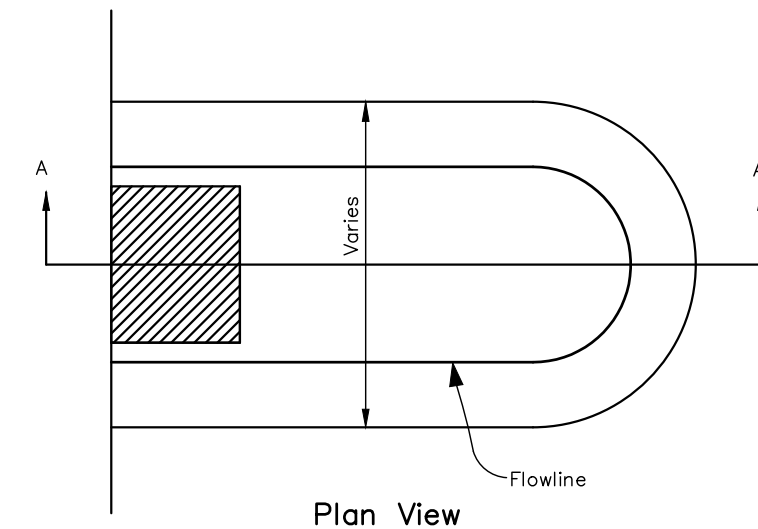
**SLEEVE FOR DESIGN POST OR DELINEATOR POST IN CONCRETE DETAIL**

Cost of sleeve will not be paid for separately, but will be included in the cost of Median Cover Material (Concrete). Location of posts are as shown on tabulation of signs and delineator tabulation.

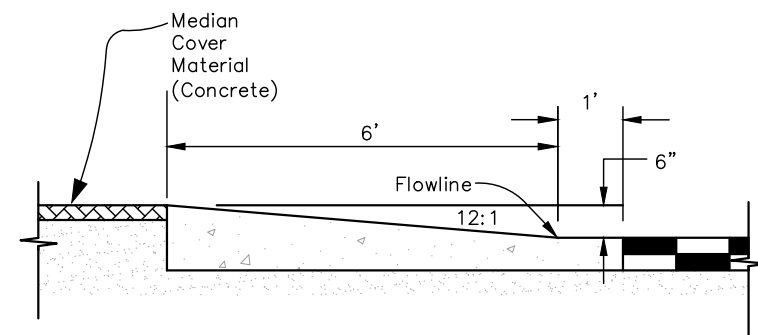


**RAISED LANDSCAPED MEDIAN DETAIL**

Sta. 5+52.00 to Sta. 13+31.00  
 Sta. 14+48.00 to Sta. 32+26.00  
 Sta. 201+35.00 to Sta. 205+40.00  
 Sta. 206+68.00 to Sta. 210+75.00



Plan View



Section A-A

**MEDIAN ISLAND NOSE DETAIL**

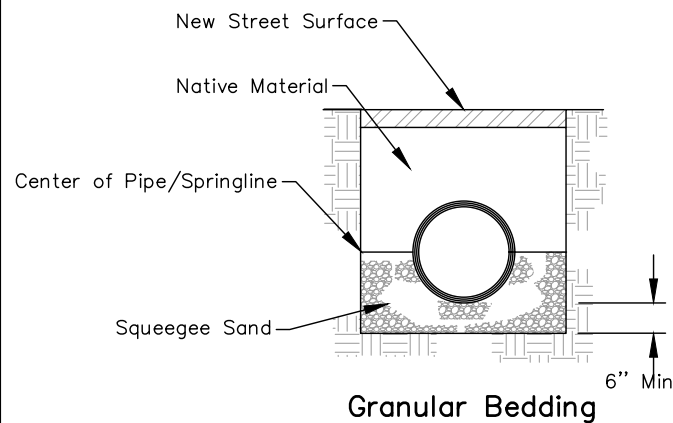
Sta. 5+52.00  
 Sta. 13+31.00  
 Sta. 14+48.00  
 Sta. 206+68.00

Median nose detail will be included in the cost of curb and gutter



**Notes:**

1. Pipe must be RCP only.
2. Native material as backfill up to grade compacted to 95% ± 2%.
3. Squeegee from 6" below the pipe and up to the springline of the pipe.
4. Squeegee sand is defined as material in which 100% passes through a 3/8" sieve and only 0% to 5% passes through a #200 sieve.
5. All trenching shall meet OSHA requirements, including trench boxes and/or shoring when appropriate.
6. An over-excavated trench shall be refilled and thoroughly compacted under the direction of the public works department.
7. Under no circumstances will pipe be laid in a proposed fill area prior to it being completely filled. The fill will be placed first to proposed grade and compacted as required. A trench then will be excavated and the pipe installed per City of Evans Standards.



**STORM SEWER BACKFILL DETAIL NTS**

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<b>37TH ST &amp; 65TH AVE INTERSECTION DETAILS</b>	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: DETAILS	Subset Sheets: 1 of 6

<b>Project No.</b>
STU M415-025
Drawing Number DET-001
Sheet Number 24

Plot Date: 9/17/2025 12:56 PM Plotted By: Sarah Hemler  
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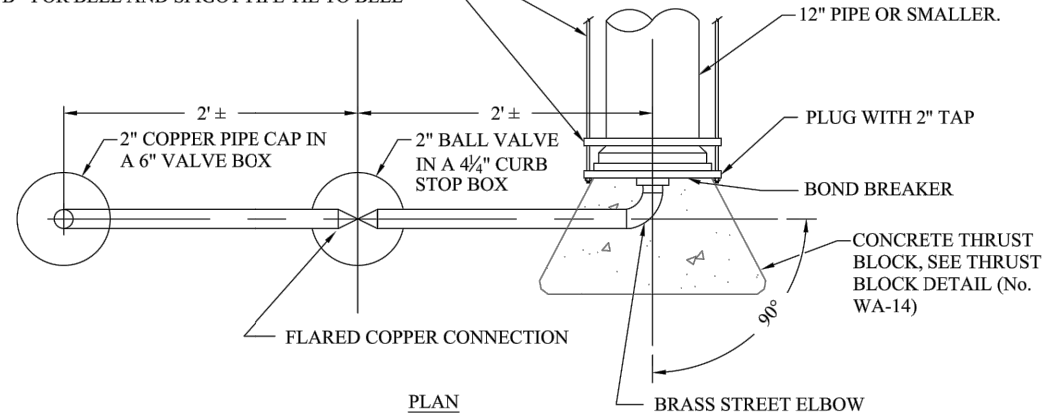
90% DRAFT PLANS

NOTE:

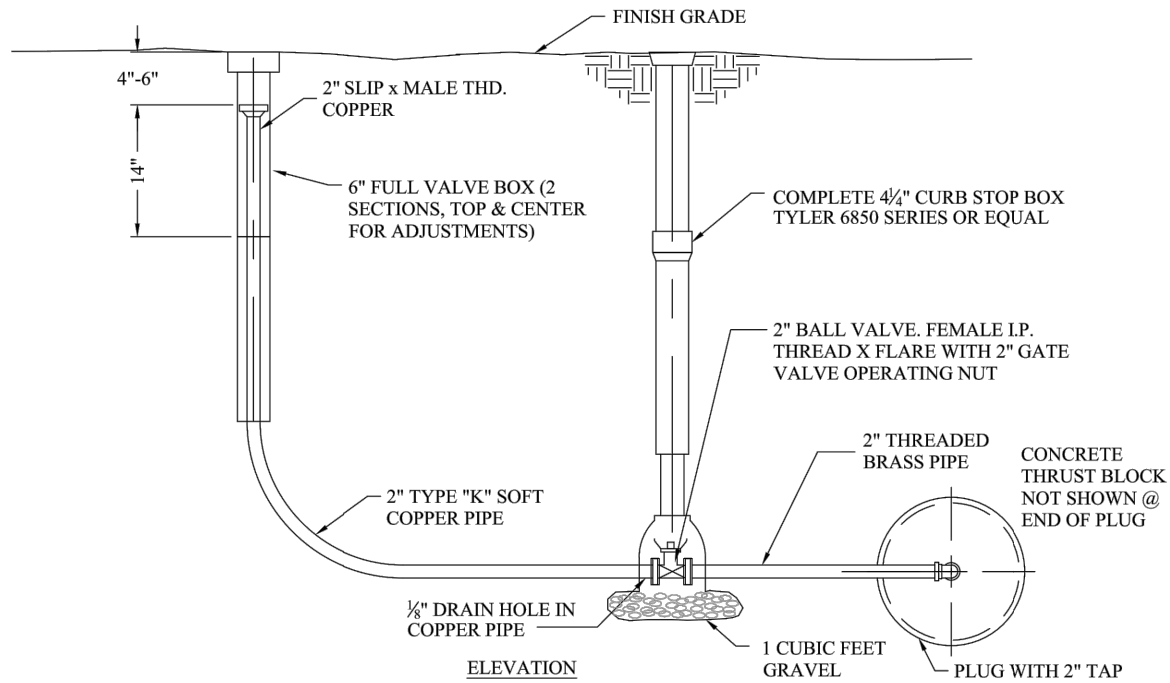
PLUG SHALL BE MECHANICALLY RESTRAINED:

A - FOR SLEEVE TYPE MACHINED COUPLING PIPE TIE BACK TO NEXT COUPLING

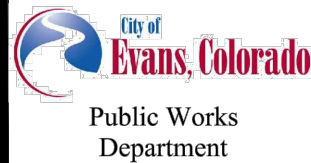
B - FOR BELL AND SPIGOT PIPE TIE TO BELL



PLAN



ELEVATION

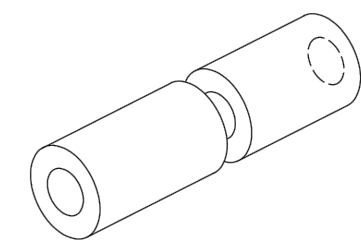
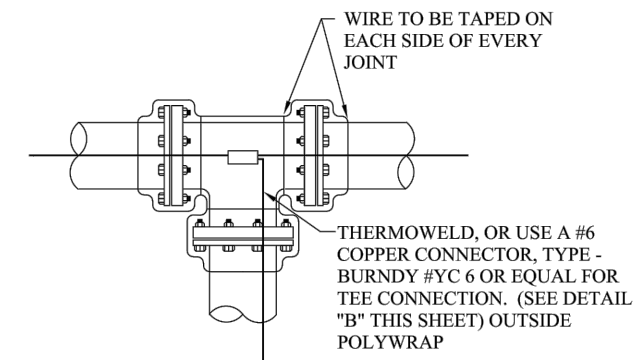
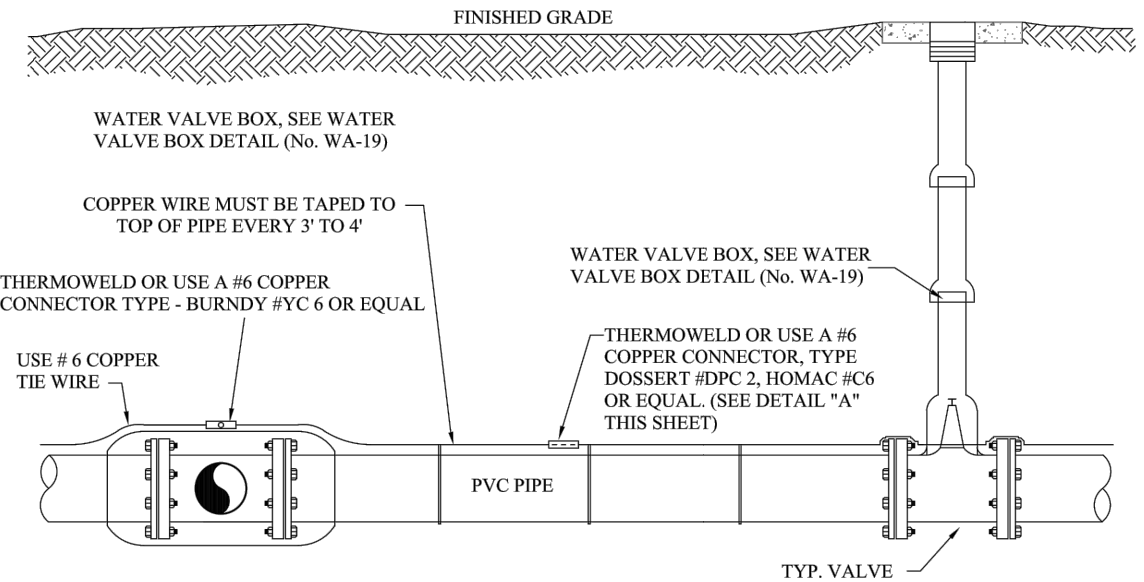


**BLOWOFF ASSEMBLY  
INSTALLATION DETAIL  
FOR 12" & SMALLER PIPE**

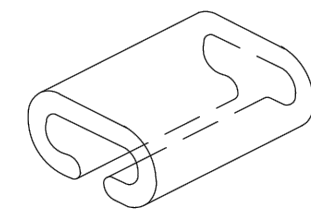
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WA-2

May 2019

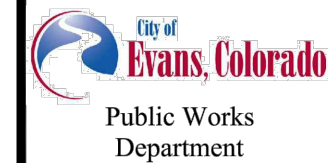


DETAIL "A"



DETAIL "B"

- NOTE:
1. STRIP WIRE CASING TO EXPOSE WIRE FOR PROPER CONDUCTION
  2. 12 GAUGE SOLID OR STRANDED WITH 3M DBY CONNECTORS
  3. DAYLIGHT TRACER WIRE IN TEST BOXES BEHIND NEAREST FIRE HYDRANT (SEE DETAIL WA-6)



**COPPER TRACER  
WIRE DETAIL  
ON PVC PIPE**

Scale: N.T.S.

WA-5

May 2019



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 C:\Q-PROJECTS\WATER PROJECTS\33022-CITY OF EVANS\37TH ST AND 65TH AVE INTERSECTION DESIGN\00-COMPUTER DESIGN FILES\02-SHEET FILES\DET P3-001 DETAILS.DWG

All seals for this set of drawings are applied to the cover page(s)

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Sheet Revisions		
Date	Comments	Initials

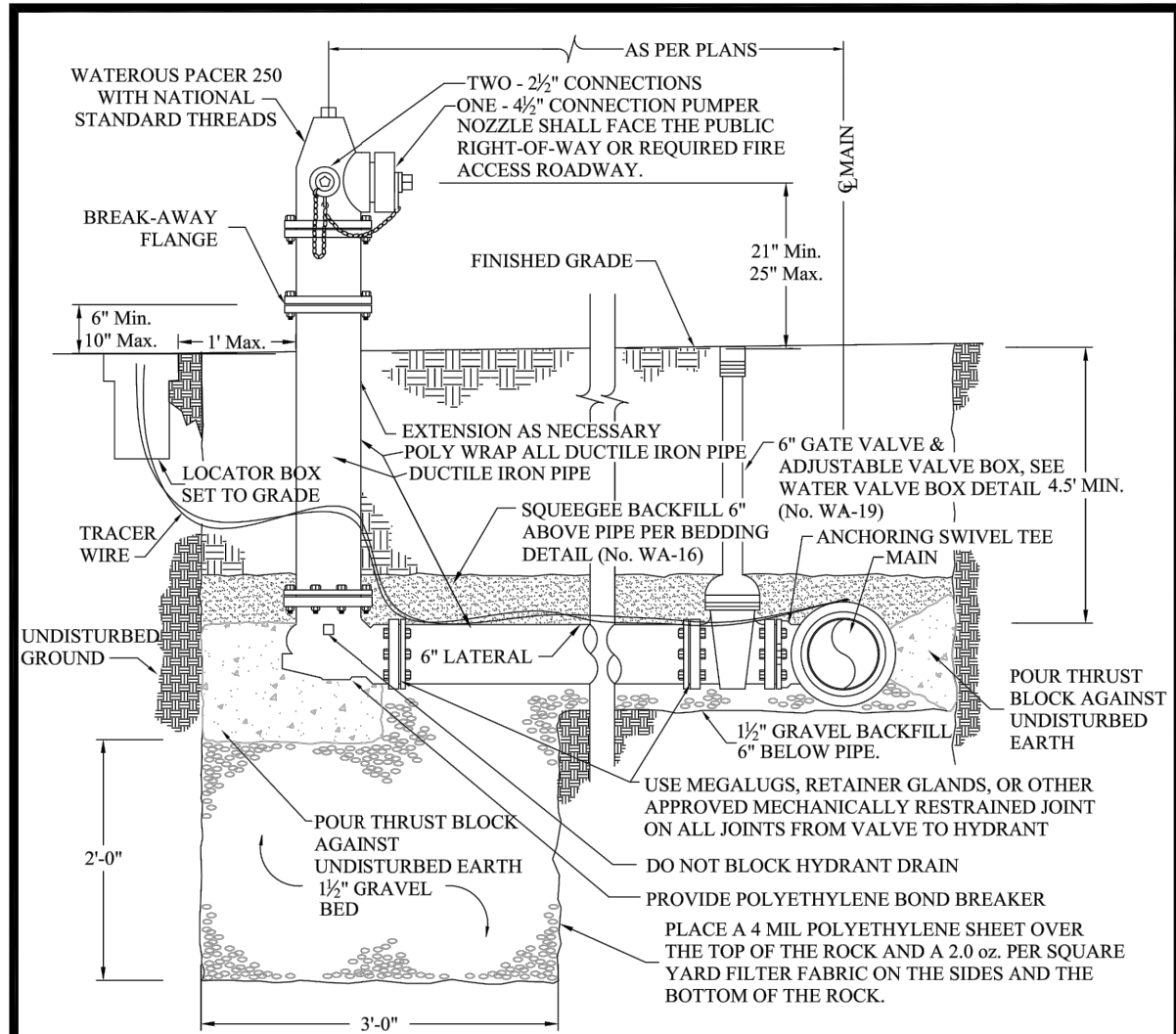


As Constructed
No Revisions:
Revised:
Void:

37TH ST & 65TH AVE INTERSECTION DETAILS	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: DETAILS	Subset Sheets: 2 of 6

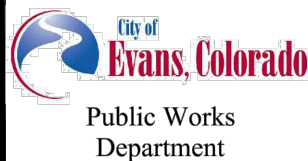
Project No.
STU M415-025
Drawing Number DET-002
Sheet Number 25

90% DRAFT PLANS



**NOTES:**

1. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS
2. STANDARD COLOR WILL BE DES MOINES SAFETY YELLOW PRODUCT #6162
3. HEIGHT TO CENTER OF STEAMER - 21" MIN. TO 25" MAX
4. PROVIDE 5' RADIUS CLEAR ZONE AROUND ALL HYDRANTS
5. DO NOT PLACE ANY HYDRANTS AT THE END OF CUL-DE-SACS
6. 4.5' MIN. DEPTH OF COVER FROM FINISHED GRADE TO TOP OF PIPE
7. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE MECHANICALLY RESTRAINED
8. ALL PIPE AND FITTINGS FROM MAIN TO FIRE HYDRANT SHALL BE PVC PIPE
9. TRACER WIRE TO TERMINATE @ LOCATOR BOX LOCATED AT REAR OF HYDRANT
10. LOCATOR BOX TO BE SETBACK A MAX. OF 1' FROM THE REAR OF THE HYDRANT
11. ENSURE THAT THRUST BLOCK DOES NOT BLOCK WEEP HOLE FOR DRAINAGE
12. SEE THRUST BLOCK DETAIL (No. WA-14)



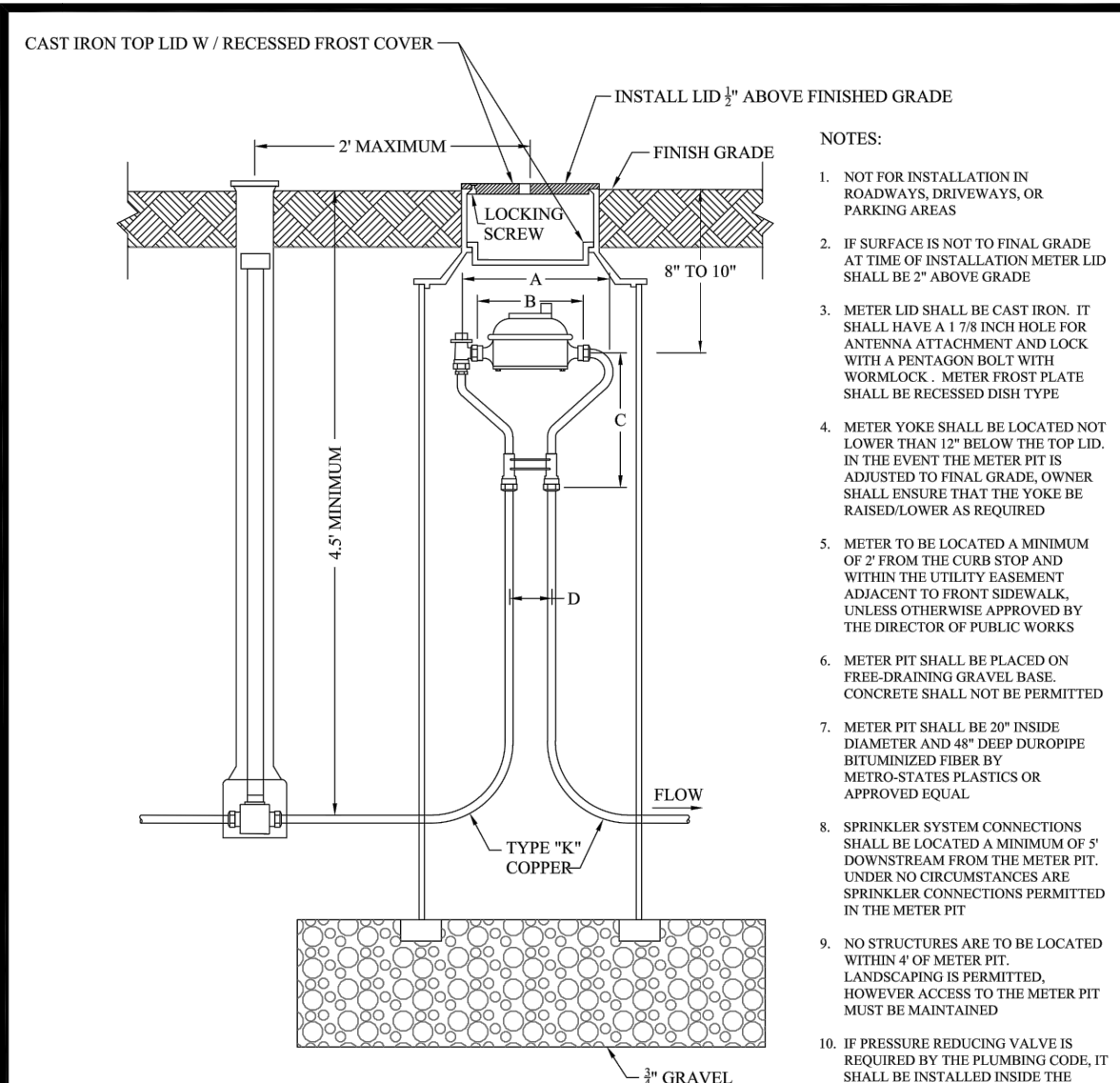
**FIRE HYDRANT DETAIL  
WATEROUS PACER 250  
WITH NATIONAL STANDARD THREADS**

Public Works  
Department

Scale: N.T.S.

WA-6

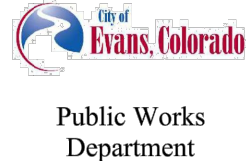
May 2019



**NOTES:**

1. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS
2. IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION METER LID SHALL BE 2" ABOVE GRADE
3. METER LID SHALL BE CAST IRON. IT SHALL HAVE A 1/8 INCH HOLE FOR ANTENNA ATTACHMENT AND LOCK WITH A PENTAGON BOLT WITH WORMLOCK. METER FROST PLATE SHALL BE RECESSED DISH TYPE
4. METER YOKE SHALL BE LOCATED NOT LOWER THAN 12" BELOW THE TOP LID. IN THE EVENT THE METER PIT IS ADJUSTED TO FINAL GRADE, OWNER SHALL ENSURE THAT THE YOKE BE RAISED/LOWER AS REQUIRED
5. METER TO BE LOCATED A MINIMUM OF 2' FROM THE CURB STOP AND WITHIN THE UTILITY EASEMENT ADJACENT TO FRONT SIDEWALK, UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS
6. METER PIT SHALL BE PLACED ON FREE-DRAINING GRAVEL BASE. CONCRETE SHALL NOT BE PERMITTED
7. METER PIT SHALL BE 20" INSIDE DIAMETER AND 48" DEEP DUROPIPE BITUMINIZED FIBER BY METRO-STATES PLASTICS OR APPROVED EQUAL
8. SPRINKLER SYSTEM CONNECTIONS SHALL BE LOCATED A MINIMUM OF 5' DOWNSTREAM FROM THE METER PIT. UNDER NO CIRCUMSTANCES ARE SPRINKLER CONNECTIONS PERMITTED IN THE METER PIT
9. NO STRUCTURES ARE TO BE LOCATED WITHIN 4' OF METER PIT. LANDSCAPING IS PERMITTED, HOWEVER ACCESS TO THE METER PIT MUST BE MAINTAINED
10. IF PRESSURE REDUCING VALVE IS REQUIRED BY THE PLUMBING CODE, IT SHALL BE INSTALLED INSIDE THE BUILDING IMMEDIATELY FOLLOWING THE MAIN SHUT OFF VALVE
11. SERVICE BOX FOR CURB STOP SHALL BE OF THE MUELLER TYPE WITH A COMBINATION LID AND PENTAGON PLUG (MODEL #H-10334) AND AN EXTENSION TYPE CURB BOX WITH ARCH PATTERN BASE AND SHUT-OFF ROD
12. CURB STOPS SHALL BE STRAIGHT AND CLEAN OF ANY DEBRIS

METER SIZE	A	B	C	D
3/4-INCH	14 1/4-INCH	7 1/2-INCH	8 1/2-INCH	5-INCH
1-INCH	17 1/4-INCH	10 1/2-INCH	11 1/4-INCH	6-INCH



**METER SETTING DETAIL  
FOR 3/4" AND 1" METERS**

Public Works  
Department

Scale: N.T.S.

WA-7

May 2019



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Date	Comments	Initials



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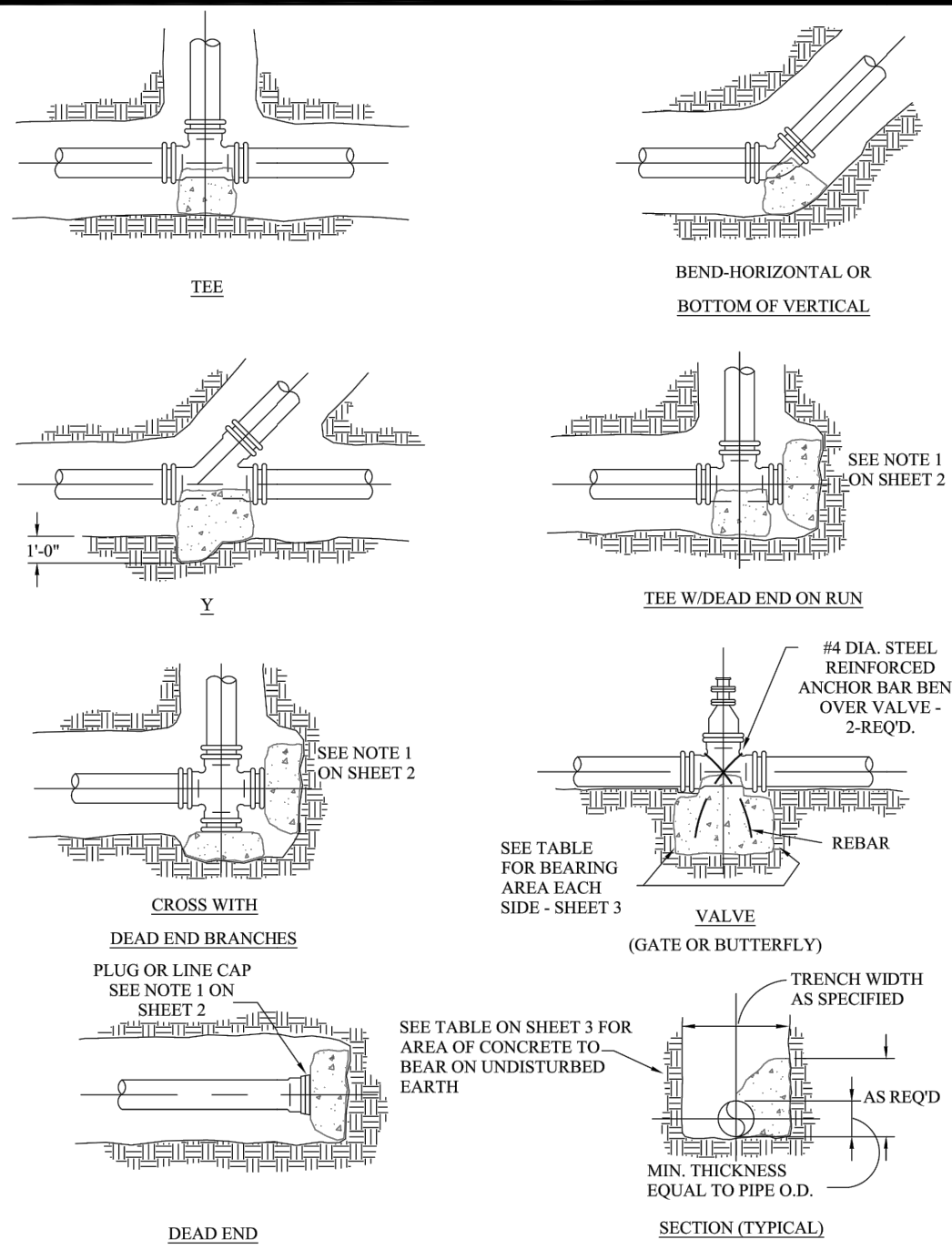
**37TH ST & 65TH AVE INTERSECTION  
DETAILS**

Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	DETAILS	Subset Sheets:	3 of 6

**Project No.**  
STU M415-025  
**Drawing Number** DET-003  
**Sheet Number** 26

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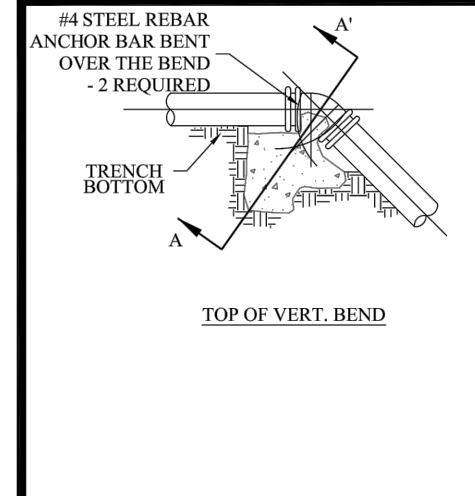
90% DRAFT PLANS



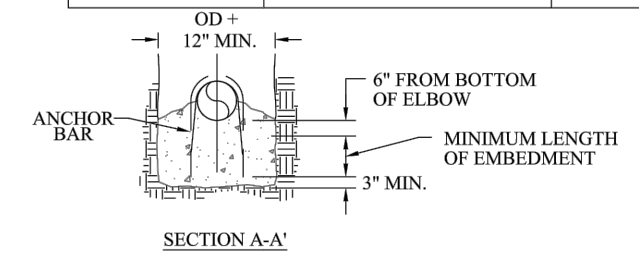
**City of Evans, Colorado**  
Public Works Department

**THRUST BLOCK DETAIL SHEET 1 OF 3**

Scale: N.T.S. WA-14A May 2019



BAR SIZES FOR 100 PSI		MIN. LENGTH OF EMBEDMENT
LESS THAN	NO. OF BARS & SIZE	
60 CUBIC FEET	TWO - #4	8"
90 CUBIC FEET	TWO - #5	12"
133 CUBIC FEET	TWO - #6	16"



**TABLE OF VOLUMES OF CONCRETE (IN CU. FT.)**

REQ'D FOR VERT. BEND ANCHOR BLOCKS FOR 100 P.S.I. PRESSURE  
ADJUST VOLUMES BY MULTIPLYING TABULATED VALUES BY A CORRECTION FACTOR "F".

$F = \frac{\text{ACTUAL SPECIFIED TEST PRESSURE}}{100}$

PIPE SIZE (INCHES)	BENDS		
	45°	22 1/2°	11 1/4°
3	3.7	1.9	1.4
4	6.5	3.3	1.7
6	14.6	7.5	3.7
8	26.0	13.2	6.6
10	40.5	20.7	10.3
12	58.5	30.0	14.8
14	79.5	40.7	20.2
15	91.0	46.6	23.2
16	104.0	53.0	26.5
18	SPECIAL DESIGN REQ'D.	67.3	33.4
20		83.0	41.0
21	SPECIAL DESIGN REQ'D.		45.5
22			50.0
24			59.5
30	SPECIAL DESIGN REQ'D.		
36			

- NOTES FOR DRAWINGS:
- AT DEAD ENDS, WRAP FITTINGS WITH TAR PAPER, FELT, OR HEAVY KRAFT PAPER TO PROVIDE BOND BREAK BETWEEN CONCRETE AND FITTINGS
  - ALL THRUST BLOCKING SHALL BE CAST-IN-PLACE CONCRETE HAVING A MINIMUM YIELD STRENGTH OF 3000 P.S.I. NO HAND MIXING OF CONCRETE ALLOWED
  - THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED EARTH. FORMS SHALL BE USED AS REQUIRED TO OBTAIN ADEQUATE BEARING AREA AND TO CONFINE THE CONCRETE. THRUST BLOCKING SHALL BEAR ON THE FITTING OR END CAP ONLY AND SHOULD NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE
  - MEGA-LUGS OR OTHER JOINT RESTRAINT MAY BE USED ALONG WITH OR IN PLACE OF CONCRETE THRUST BLOCKS WITH DESIGN SUBMITTED BY PROFESSIONAL ENGINEER AND APPROVED BY PUBLIC WORKS DEPARTMENT
  - PIPE INSTALLED UNDER CONDITIONS DIFFERENT FROM THOSE NORMALLY ENCOUNTERED SHALL REQUIRE THRUST BLOCKS DESIGNED FOR THOSE PARTICULAR CONDITIONS

**City of Evans, Colorado**  
Public Works Department

**THRUST BLOCK DETAIL SHEET 2 OF 3**

Scale: N.T.S. WA-14B May 2019



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<b>37TH ST &amp; 65TH AVE INTERSECTION DETAILS</b>		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: DETAILS	Subset Sheets: 4 of 6	

<b>Project No.</b>
STU M415-025
Drawing Number DET-004
Sheet Number 27

90% DRAFT PLANS

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TABLE OF BEARING AREAS IN SQ. FT. FOR CONCRETE  
THRUST BLOCKING

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1000 LBS. PER SQ. FT. SOIL BEARING CAPACITY

PIPE SIZE (INCHES)	BENDS				TEES *	GATE VALVES	DEADENDS AND CROSSES WITH ONE OR TWO BRANCHES PLUGGED
	90°	45°	22 1/2°	11 1/4°			
3	1.0	0.6	0.3	0	0.7	0.5	0.7
4	1.8	1.0	0.5	0	1.3	0.5	1.3
6	4.0	2.2	1.1	0	2.8	0.7	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4
15	25.0	13.5	7.0	3.5	17.6		17.6
16	28.4	15.3	8.0	4.0	20.0		20.0
18			10.0	5.0	25.4		25.4
20			12.2	6.1	31.4		31.4
21				6.8	34.6		34.6
22				7.4	38.0		38.0
24				8.8	45.0		45.0
30							71.0
36							102.0

\* PIPE SIZES ARE THE SIZE OF THE BRANCH SIZE

BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F"

$$F = \frac{\text{ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS/SQ. IN.}}{\text{ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.}}$$

EXAMPLE:

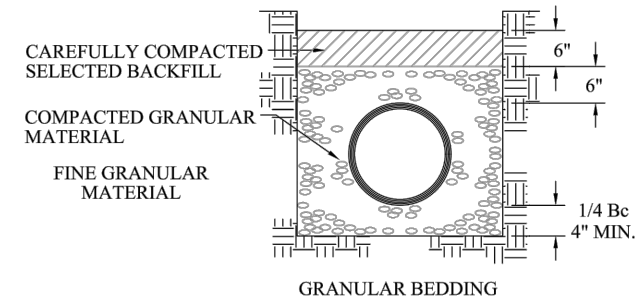
- TO FIND BEARING AREA FOR 8"-90° BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I. AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.

$$- F = \frac{1.5}{3} = 0.5$$

- TABULATED VALUE = 7.1 SQ. FT.


$$- 0.5 * 7.1 = 3.56 \text{ OR } \sim 4 \text{ SQ. FT. OR } 2 \text{ FT. LONG BY } 2 \text{ FT. HIGH}$$

IN THE ABSENCE OF SOIL BEARING CAPACITY INFORMATION, USE ABOVE TABLE



NOTES:

1. MINIMUM DENSITY FOR CAREFULLY COMPACTED SELECT BACKFILL SHALL BE 95% OF MAXIMUM OR AS SPECIFIED FOR THE TRENCH BACKFILL - WHICHEVER IS GREATER
2. COMPACT GRANULAR MATERIAL BY SLICING WITH A SHOVEL AROUND PIPE. WHEN BEDDING IS 6" OVER PIPE, COMPACT WITH VIBRATING COMPACTOR




Public Works  
Department

THRUST BLOCK DETAIL  
SHEET 3 OF 3

Scale: N.T.S.

WA-14C

May 2019



Public Works  
Department

WATER LINE  
BEDDING DETAIL

Scale: N.T.S.

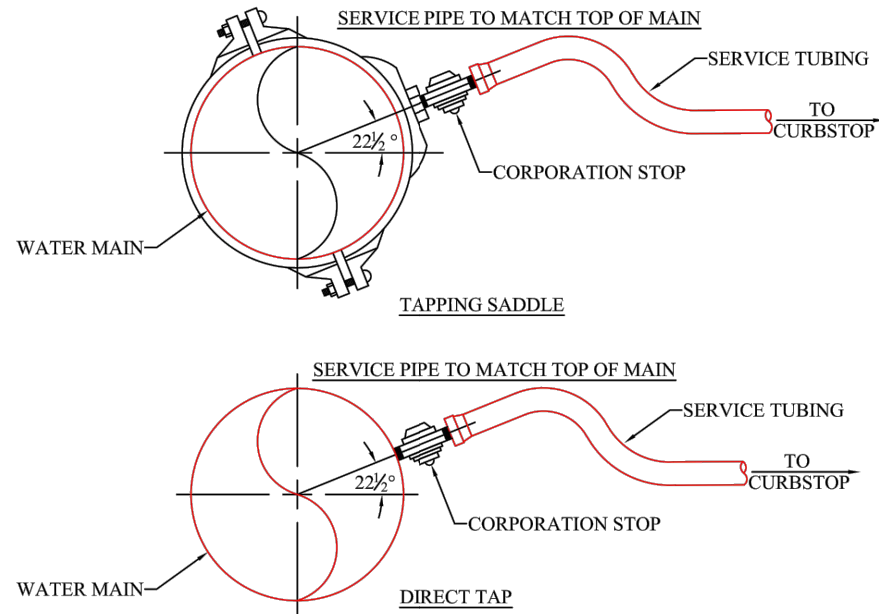
WA-16

May 2019



90% DRAFT PLANS

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	File Name: DET P3-001 DETAILS.DWG		Date	Comments	Initials		No Revisions:			STU M415-025
	Horiz. Scale: N.T.S.    Vert. Scale: N.T.S. 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350						Revised:	Designer: T. Tuttle Detailer: S. Hemler	Structure Numbers:	Drawing Number DET-005
				Void:	Sheet Subset: DETAILS	Subset Sheets: 5 of 6	Sheet Number 28			

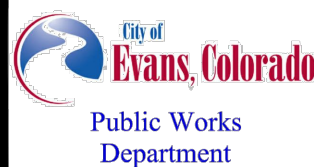


TYPE OF MAIN LINE PIPE AND SIZE OF TAP

PIPE SIZE	CAST IRON					DUCTILE IRON					PVC C-900	
	3/4"	1"	1-1/2"	2"	3"& 4"	3/4"	1"	1-1/2"	2"	3"& 4"	< 2"	> 2"
3"	S	NO	NO	NO	TSV	NO	NO	NO	NO	TSV	S	TSV
4"	DT	S	NO	NO	TSV	S	S	NO	NO	TSV	S	TSV
6"	DT	DT	S	S	TSV	DT	S	S	S	TSV	S	TSV
8"	DT	DT	S	S	TSV	DT	DT	S	S	TSV	S	TSV
12"	DT	DT	S	S	TSV	DT	DT	S	S	TSV	S	TSV
16"	DT	DT	S	S	TSV	DT	DT	S	S	TSV		
20"	DT	DT	S	S	TSV	DT	DT	S	S	TSV		

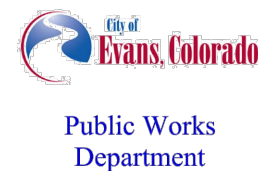
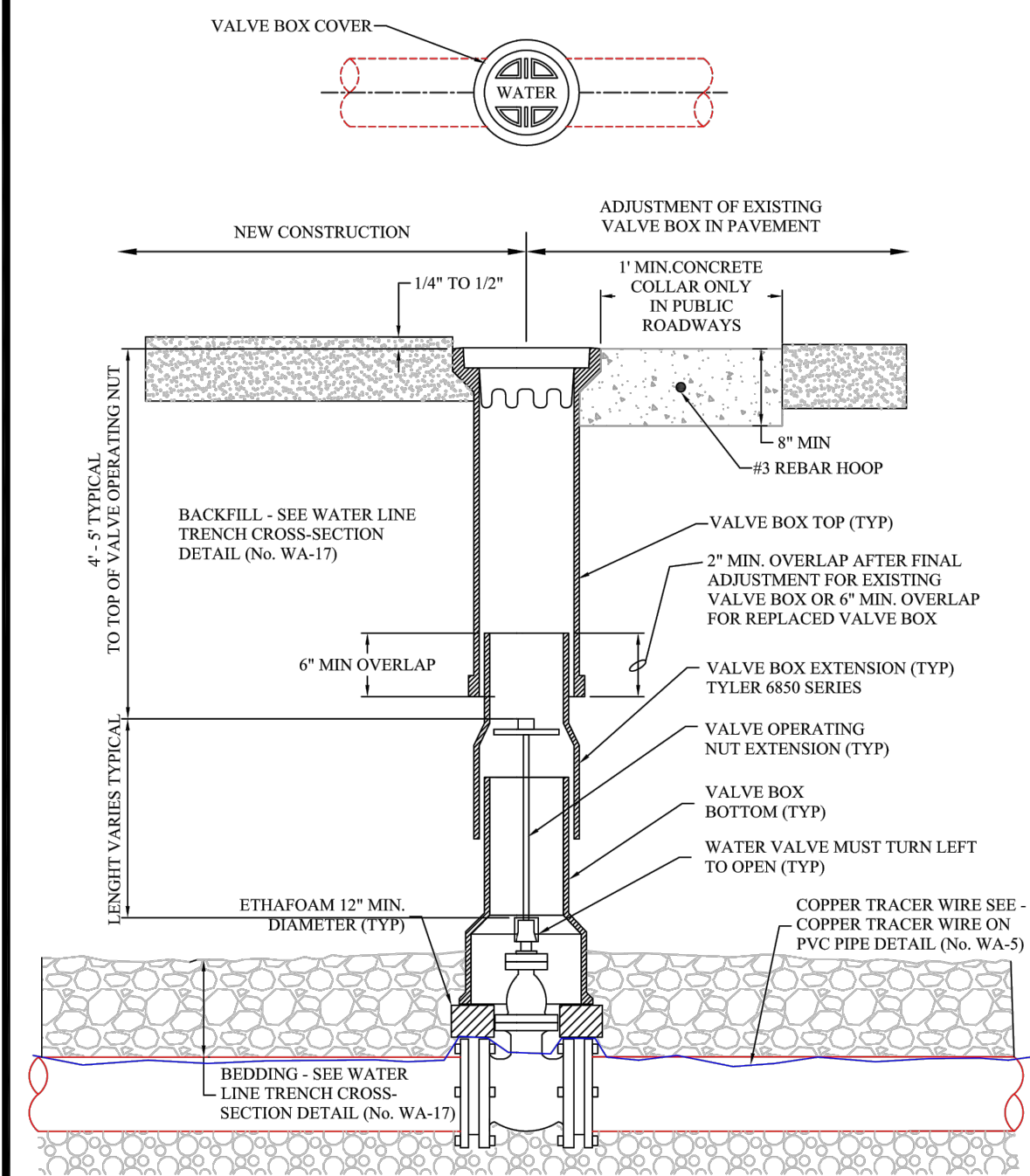
"S" - TAPPING SADDLE REQUIRED, ALL SADDLES SHALL HAVE THE AWWA TAPER ON IT'S THREADS.  
 "DT" - DIRECT TAP REQUIRED  
 "NO" - NO TAP PERMITTED WITH OR WITHOUT A SADDLE, A TEE CONNECTION MAY BE PERMITTED IF SPECIFICALLY AUTHORIZED BY THE WATER DEPARTMENT  
 "TSV" - TAPPING SLEEVE AND VALVE REQUIRED

- NOTE:
1. ALL TAPPING SADDLES 2" AND SMALLER, SHALL CONSIST OF A BRONZE BODY WITH TWO (2) BRONZE STRAPS
  2. EXISTING STEEL MAINS 12" IN DIAMETER OR LESS, SHALL BE TAPPED USING AN APPROVED TAPPING SADDLE
  3. ALL TAPS SHALL BE MADE WITH AN APPROVED TAPPING TOOL
  4. NO COUPLINGS ARE ALLOWED BETWEEN CURB STOP AND METER SETTER. SEE STANDARDS FOR ADDITIONAL REQUIREMENTS
  5. SERVICE SHALL BE TYPE K COPPER FROM MAIN TO METER



WATER SERVICE CONNECTION DETAIL

Scale: N.T.S. WA-18 July 2019



WATER VALVE BOX DETAIL

Scale: N.T.S. WA-19 August 2019

90% DRAFT PLANS

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File Name: DET P3-001 DETAILS.DWG
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Sheet Revisions		
Date	Comments	Initials



As Constructed No Revisions: Revised: Void:	37TH ST & 65TH AVE INTERSECTION DETAILS		Project No. STU M415-025
	Designer: T. Tuttle	Structure Numbers	Drawing Number DET-006
	Detailer: S. Hemler	Sheet Subset: DETAILS	Subset Sheets: 6 of 6
			Sheet Number 29



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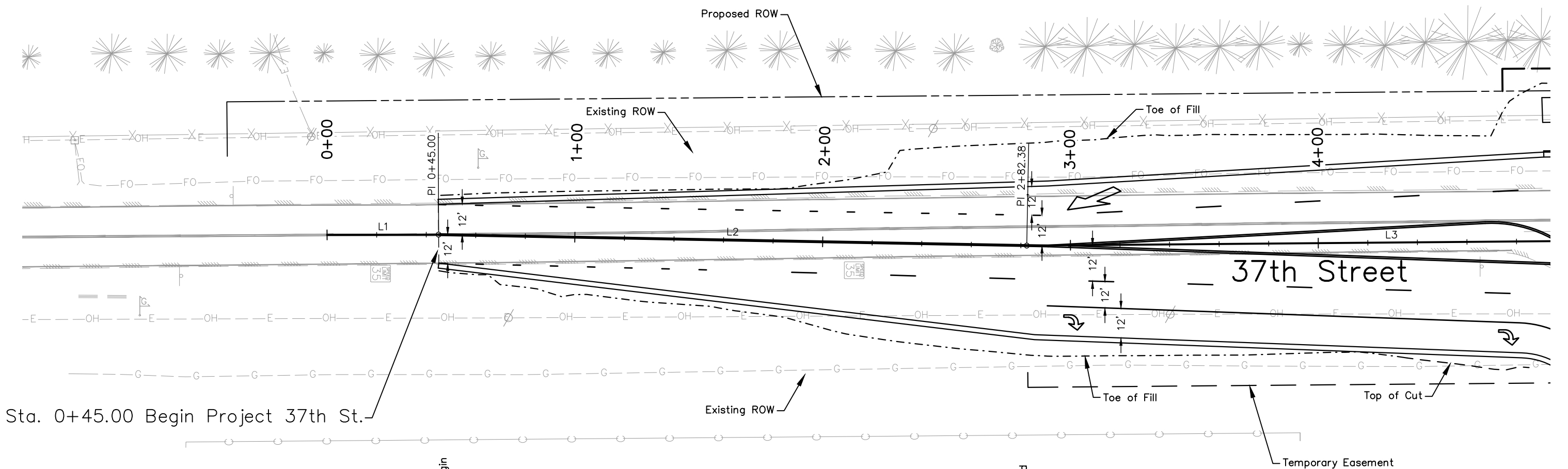
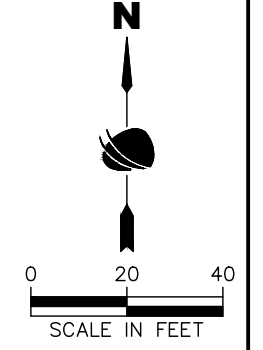
NOTE: All curb and gutter call outs are to FL of gutter

Sta. 0+45.00 18.50' Lt. Begin Pavement Taper Lt.

Sta. 2+91.00 24.00' Lt. End Pavement Taper Lt., Begin Median Taper Lt. and Rt.

ALIGNMENT BEGIN - 37TH ST		
Station	Northing	Easting
0+00.00	1381618.84	3198834.61

ALIGNMENT LINE TABLE - 37TH ST			
Line No.	Length	Direction	Deflection Angle
L1	45.00	N89°50'36"E	--
L2	237.38	S88°55'51"E	1°13'33"
L3	1094.18	N89°31'04"E	1°33'05"



Sta. 0+45.00 Begin Project 37th St.

Sta. 0+45.00, 5.00' Rt. Begin Pavement Taper Rt.

Sta. 2+85.00, 36.00' Rt. End Pavement Taper Rt.

### 37TH STREET PLAN

90% DRAFT PLANS



Plot Date: 9/17/2025 12:56 PM Plotted By: Sarah Hemler File Path: C:\PROJECTS\2025\PROJECTS\37TH ST AND 65TH AVE INTERSECTION DESIGN\00\_COMPUTER DESIGN FILES\02\_SHEET FILES\PLAN P3-01 ROADWAY PLAN.DWG

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/17/2025 File Name: PLAN P3-001 ROADWAY PLAN.DWG Horiz. Scale: As Noted Vert. Scale: N/A	<b>Sheet Revisions</b>		<b>As Constructed</b> No Revisions: Revised: Void:	<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PLAN SHEET</b>	<b>Project No.</b> STU M415-025 Drawing Number PLAN-001 Sheet Number 30										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date		Comments	Initials										Designer: T. Tuttle Detailer: S. Hemler Sheet Subset: PLAN	Structure Numbers: Subset Sheets: 1 of 8
	Date	Comments		Initials												

NOTE: All curb and gutter call outs are to FL of gutter

Sta. 4+91.00 Begin Multi-Use Path Lt.  
10.00' Lt. End Median Taper Lt.

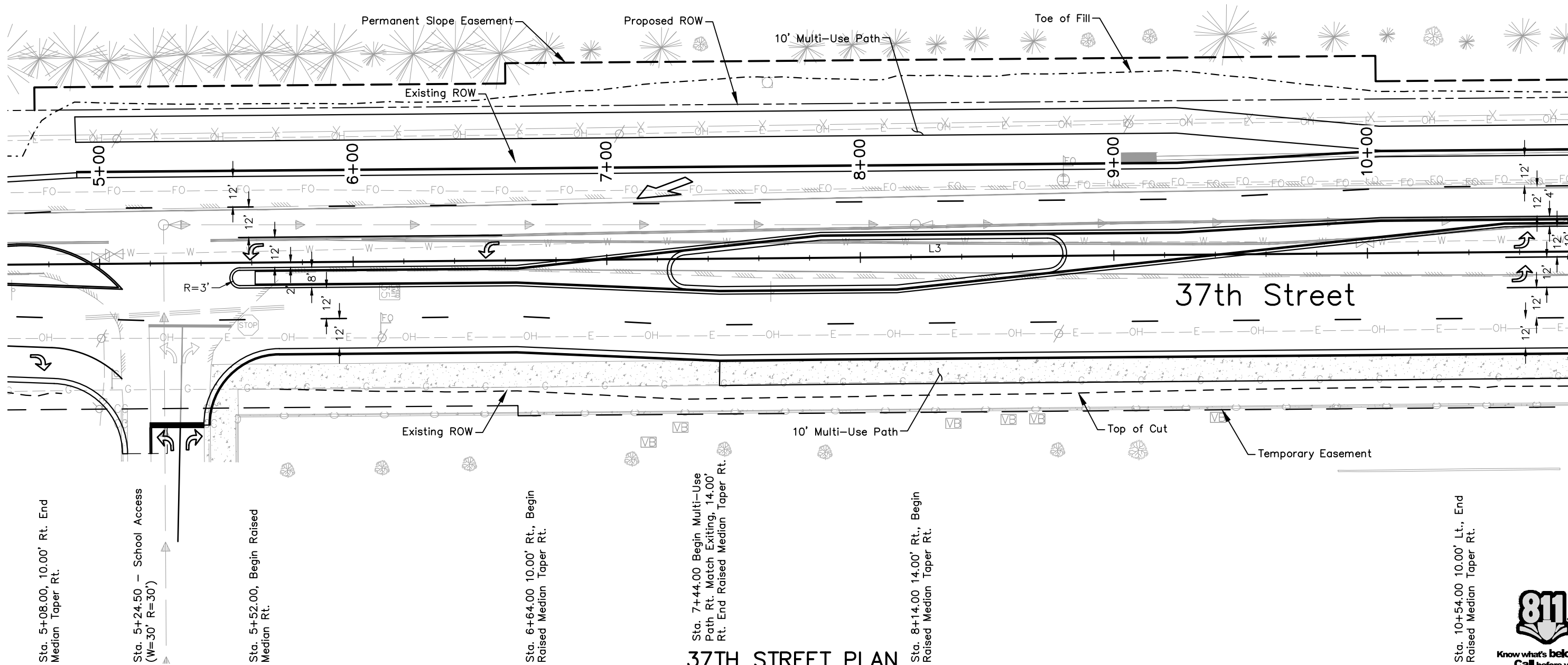
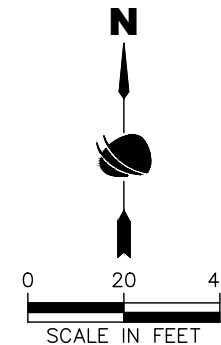
Sta. 6+64.00 2.00' Rt. Begin Raised  
Median Taper Lt.

Sta. 7+84.00 10.00' Lt. End Raised  
Median Taper Lt.

ALIGNMENT LINE TABLE - 37TH ST			
Line No.	Length	Direction	Deflection Angle
L3	1094.18	N89°31'04"E	1°33'05"

Sta. 9+25.00 10.00' Lt. Begin Raised  
Median Taper Lt., 48.00' Lt. Begin  
Parkway Taper Lt.

Sta. 10+05.00 14.00' Lt. End Raised  
Median Taper Lt., 40.50' Lt. End Parkway  
Taper Lt.



Sta. 5+08.00, 10.00' Rt. End  
Median Taper Rt.

Sta. 5+24.50 - School Access  
(W=30' R=30')

Sta. 5+52.00, Begin Raised  
Median Rt.

Sta. 6+64.00 10.00' Rt., Begin  
Raised Median Taper Rt.

Sta. 7+44.00 Begin Multi-Use  
Path Rt. Match Exiting, 14.00'  
Rt. End Raised Median Taper Rt.

Sta. 8+14.00 14.00' Rt., Begin  
Raised Median Taper Rt.

Sta. 10+54.00 10.00' Lt., End  
Raised Median Taper Rt.

**37TH STREET PLAN**

90% DRAFT PLANS



Print Date: 9/17/2025  
 File Name: PLAN P3-001 ROADWAY PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: N/A

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Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PLAN SHEET</b>	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: PLAN	Subset Sheets: 2 of 8

<b>Project No.</b>
STU M415-025
Drawing Number PLAN-002
Sheet Number 31

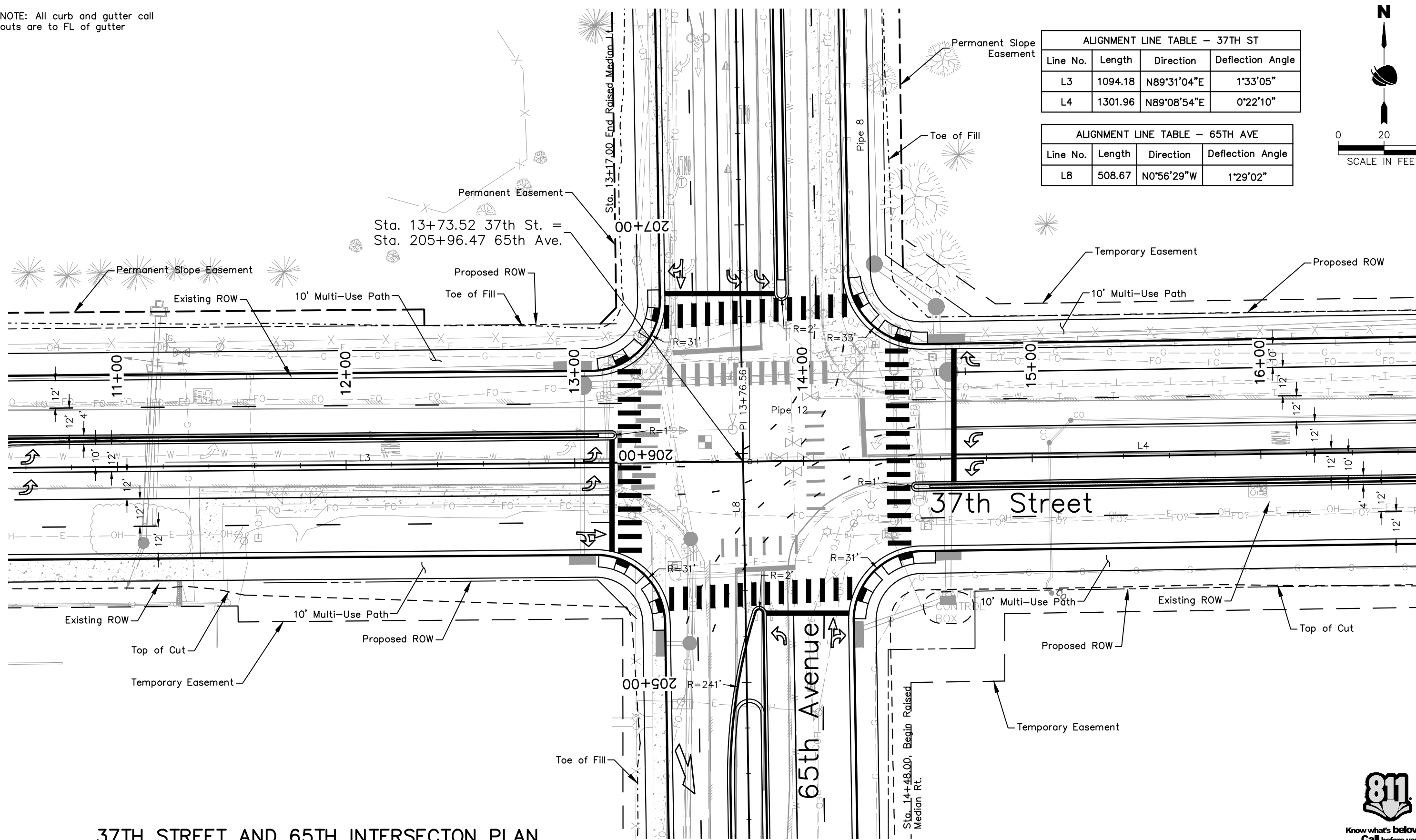
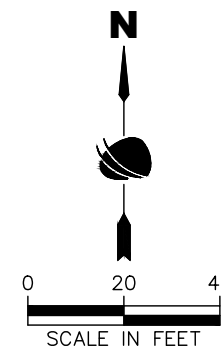
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NOTE: All curb and gutter call outs are to FL of gutter

ALIGNMENT LINE TABLE - 37TH ST			
Line No.	Length	Direction	Deflection Angle
L3	1094.18	N89°31'04"E	1°33'05"
L4	1301.96	N89°08'54"E	0°22'10"

ALIGNMENT LINE TABLE - 65TH AVE			
Line No.	Length	Direction	Deflection Angle
L8	508.67	N0°56'29"W	1°29'02"



### 37TH STREET AND 65TH INTERSECTION PLAN

90% DRAFT PLANS



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Date	Comments	Initials



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**37TH ST & 65TH AVE INTERSECTION ROADWAY PLAN SHEET**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: PLAN

Structure Numbers:  
 Subset Sheets: 3 of 8

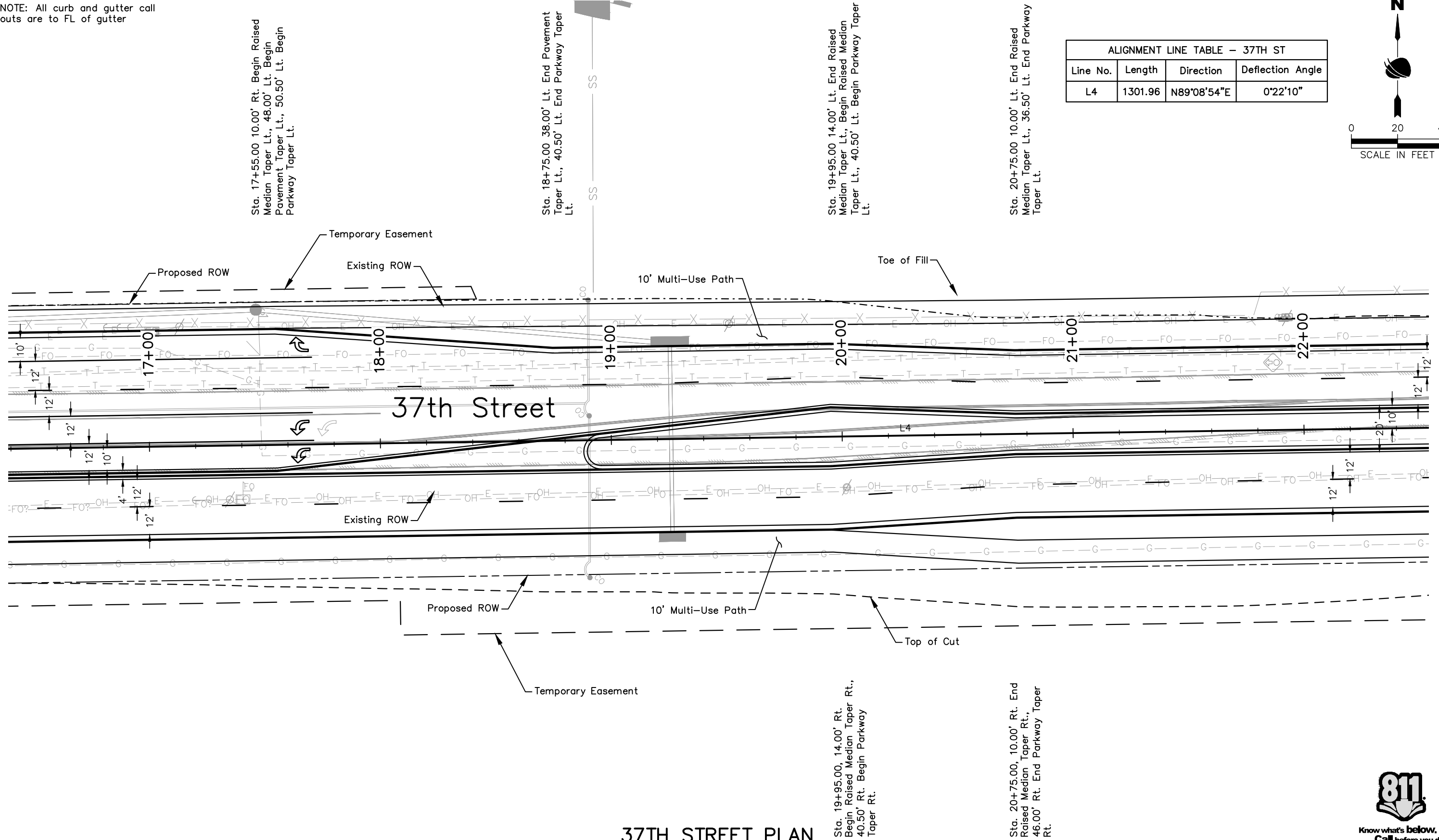
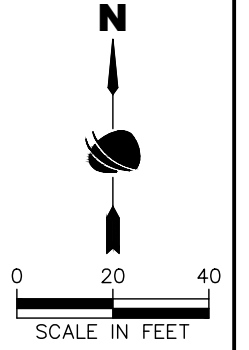
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 STU M415-025

Drawing Number PLAN-003  
 Sheet Number 32

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NOTE: All curb and gutter call outs are to FL of gutter

ALIGNMENT LINE TABLE - 37TH ST			
Line No.	Length	Direction	Deflection Angle
L4	1301.96	N89°08'54"E	0°22'10"



Sta. 17+55.00 10.00' Rt. Begin Raised Median Taper Lt., 48.00' Lt. Begin Pavement Taper Lt., 50.50' Lt. Begin Parkway Taper Lt.

Sta. 18+75.00 38.00' Lt. End Pavement Taper Lt., 40.50' Lt. End Parkway Taper Lt.

Sta. 19+95.00 14.00' Lt. End Raised Median Taper Lt., Begin Raised Median Taper Lt., 40.50' Lt. Begin Parkway Taper Lt.

Sta. 20+75.00 10.00' Lt. End Raised Median Taper Lt., 36.50' Lt. End Parkway Taper Lt.

Sta. 19+95.00, 14.00' Rt. Begin Raised Median Taper Rt., 40.50' Rt. Begin Parkway Taper Rt.

Sta. 20+75.00, 10.00' Rt. End Raised Median Taper Rt., 46.00' Rt. End Parkway Taper Rt.

### 37TH STREET PLAN

90% DRAFT PLANS



Plot Date: 9/17/2025 12:56 PM Plotted By: Sarah Hemler  
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Date	Comments	Initials



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37TH ST & 65TH AVE INTERSECTION ROADWAY PLAN SHEET			
Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler		
Sheet Subset:	PLAN	Subset Sheets:	4 of 8

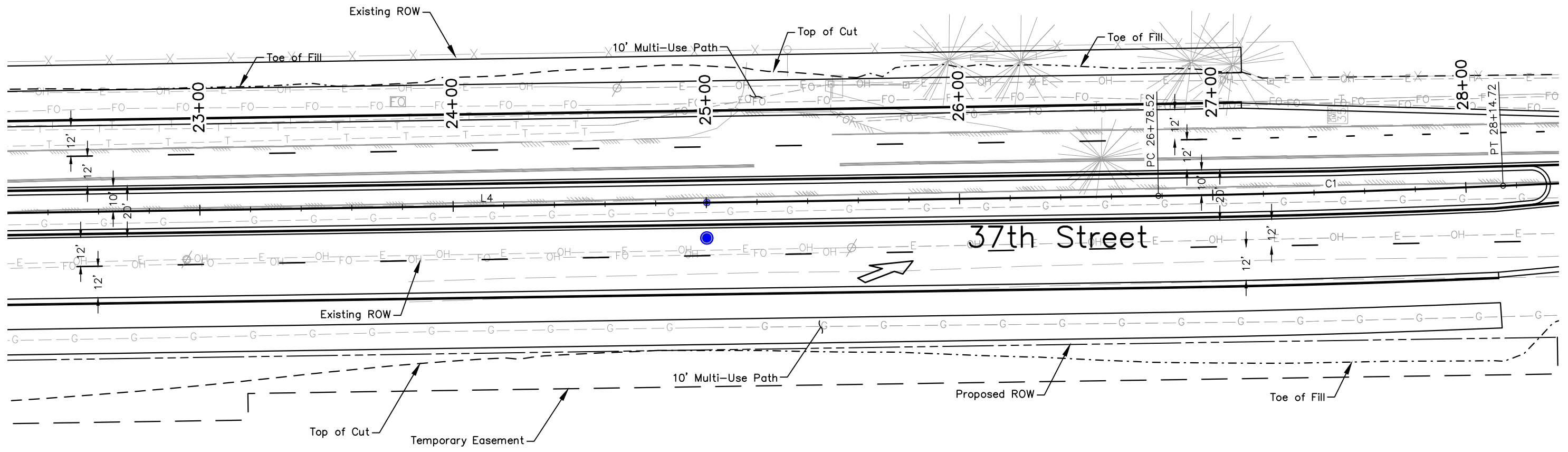
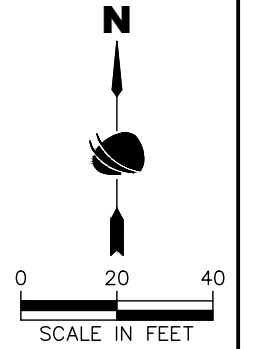
<b>Project No.</b>	
STU M415-025	
Drawing Number	PLAN-004
Sheet Number	33

ALIGNMENT LINE TABLE - 37TH ST			
Line No.	Length	Direction	Deflection Angle
L4	1301.96	N89°08'54"E	0°22'10"

ALIGNMENT CURVE TABLE - 37TH									
Curve No.	PC Sta.	PI Sta.	PT Sta.	Delta	L	T	R	Dc	e
C1	26+78.52	27+46.63	28+14.72	1°37'57" Rt.	136.20'	68.10'	4780.00'	1'11'55"	4.0%

NOTE: All curb and gutter call outs are to FL of gutter

Sta. 27+12.00 34.00' Lt. Begin Pavement Taper Lt., End Multi-Use Path Lt.



### 37TH STREET PLAN

Sta. 28+11.00, 10.00' Rt.  
Begin Raised Median Taper Rt.,  
End Multi-Use Path Rt.



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<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PLAN SHEET</b>		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 5 of 8

<b>Project No.</b>	STU M415-025
Drawing Number	PLAN-005
Sheet Number	34

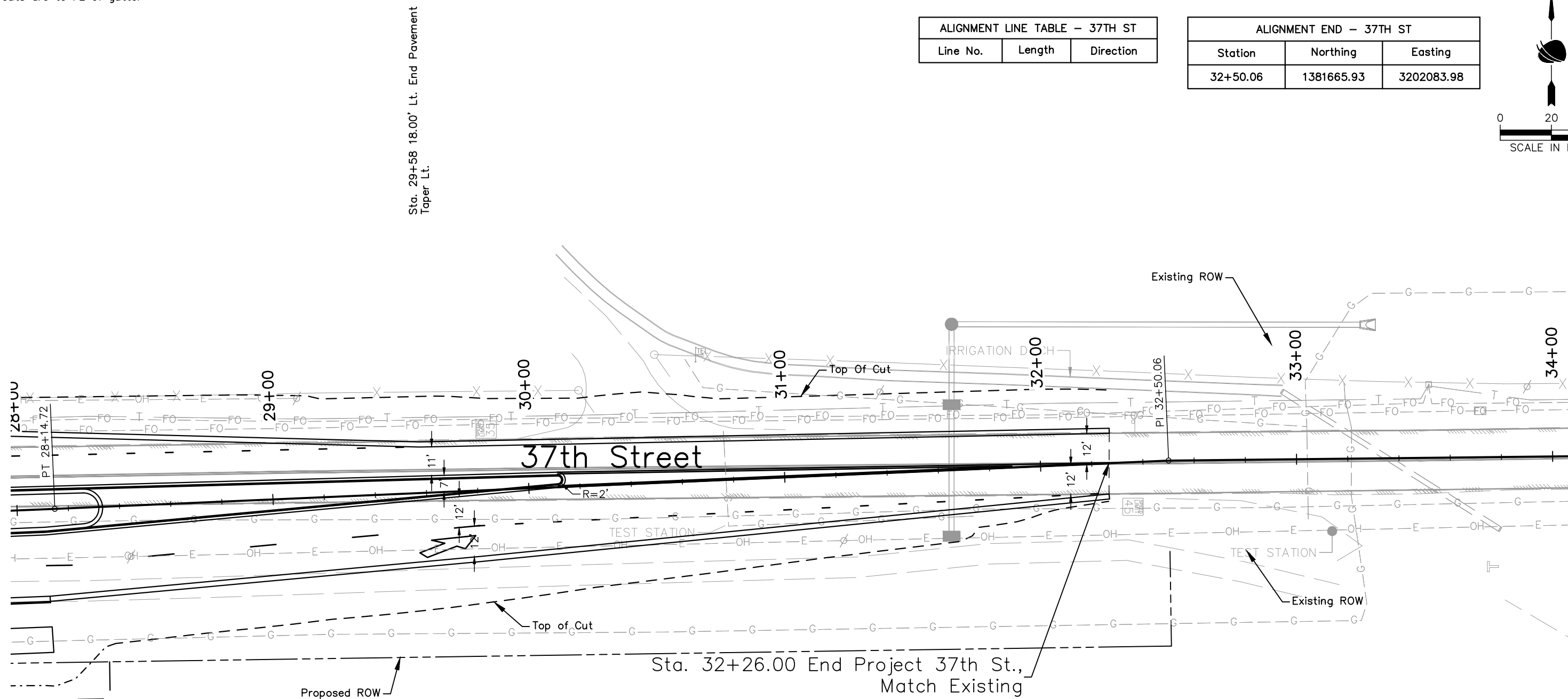
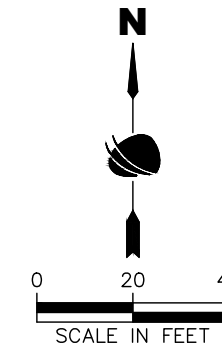
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90% DRAFT PLANS

NOTE: All curb and gutter call outs are to FL of gutter

ALIGNMENT LINE TABLE - 37TH ST		
Line No.	Length	Direction

ALIGNMENT END - 37TH ST		
Station	Northing	Easting
32+50.06	1381665.93	3202083.98



Sta. 29+58 18.00' Lt. End Pavement Taper Lt.

Sta. 29+80.00, 26.00' Rt. Begin Pavement Taper Rt.

Sta. 32+26.00, 11.50' Rt. End Pavement Taper Rt., End Median Taper Rt., Match Existing

### 37TH STREET PLAN

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<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PLAN SHEET</b>		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	PLAN	Subset Sheets: 6 of 8

<b>Project No.</b>
STU M415-025
Drawing Number PLAN-006
Sheet Number 35

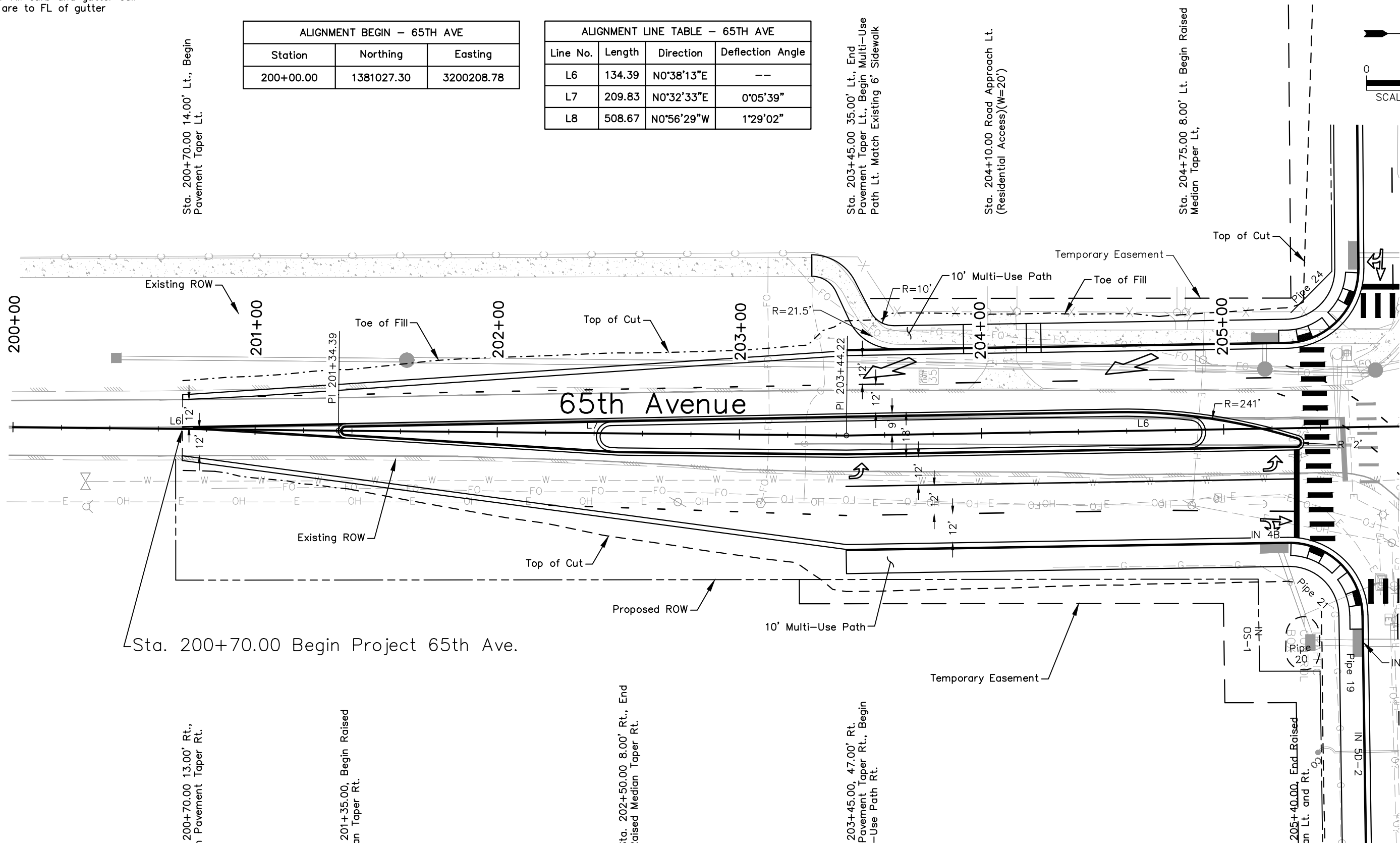
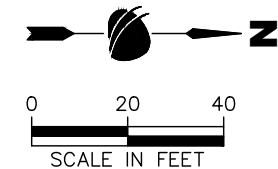
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NOTE: All curb and gutter call outs are to FL of gutter

ALIGNMENT BEGIN - 65TH AVE		
Station	Northing	Easting
200+00.00	1381027.30	3200208.78

ALIGNMENT LINE TABLE - 65TH AVE			
Line No.	Length	Direction	Deflection Angle
L6	134.39	N0°38'13"E	--
L7	209.83	N0°32'33"E	0°05'39"
L8	508.67	N0°56'29"W	1°29'02"



Sta. 200+70.00 Begin Project 65th Ave.

**65TH AVENUE PLAN**

Sta. 200+70.00 13.00' Rt., Begin Pavement Taper Rt.

Sta. 201+35.00, Begin Raised Median Taper Rt.

Sta. 202+50.00 8.00' Rt., End Raised Median Taper Rt.

Sta. 203+45.00, 47.00' Rt., End Pavement Taper Rt., Begin Multi-Use Path Rt.

Sta. 205+40.00, End Raised Median Lt. and Rt.

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**37TH ST & 65TH AVE INTERSECTION ROADWAY PLAN SHEET**

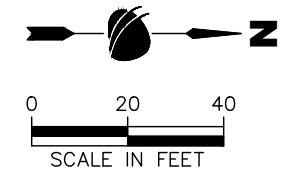
Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	PLAN	Subset Sheets:	7 of 8

Project No.	
STU M415-025	
Drawing Number	PLAN-007
Sheet Number	36



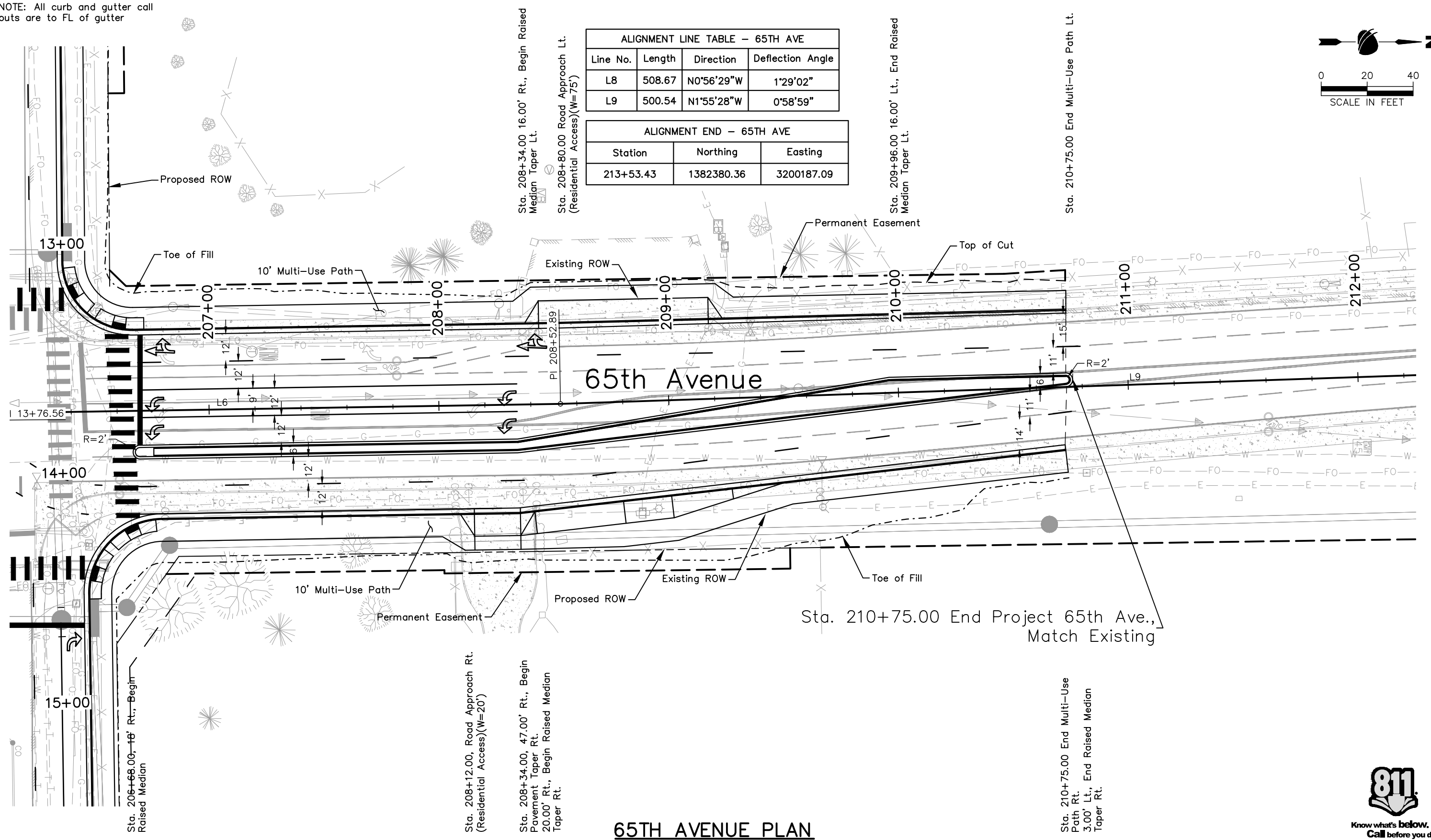
90% DRAFT PLANS

NOTE: All curb and gutter call outs are to FL of gutter



ALIGNMENT LINE TABLE - 65TH AVE			
Line No.	Length	Direction	Deflection Angle
L8	508.67	N0°56'29"W	1°29'02"
L9	500.54	N1°55'28"W	0°58'59"

ALIGNMENT END - 65TH AVE		
Station	Northing	Easting
213+53.43	1382380.36	3200187.09



**65TH AVENUE PLAN**

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**37TH ST & 65TH AVE INTERSECTION ROADWAY PLAN SHEET**

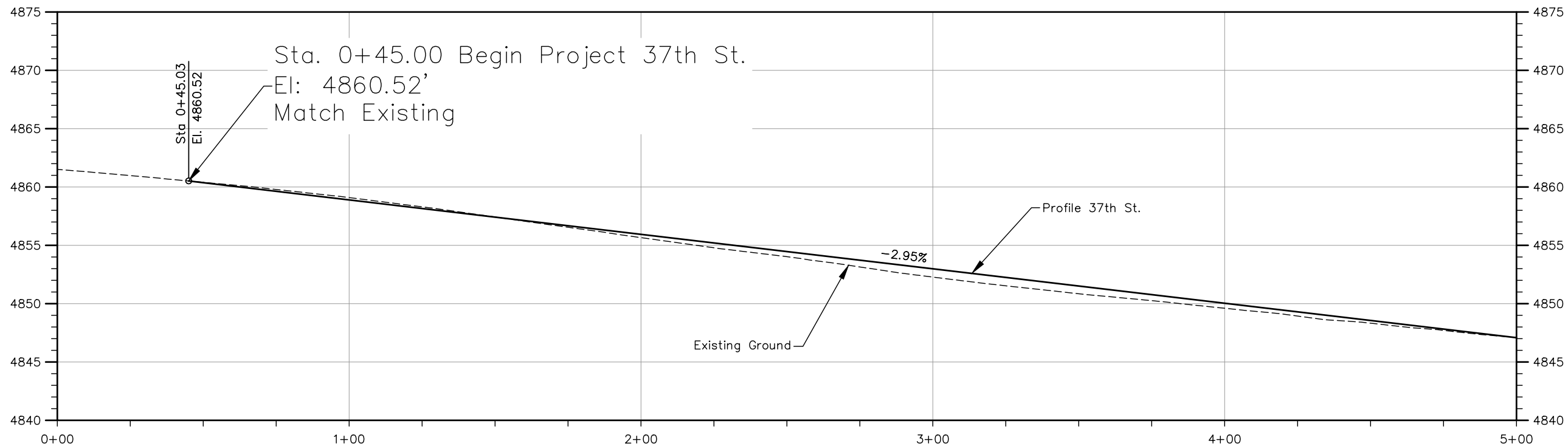
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 Detailer: S. Hemler  
 Sheet Subset: PLAN

Structure Numbers  
 Subset Sheets: 8 of 8

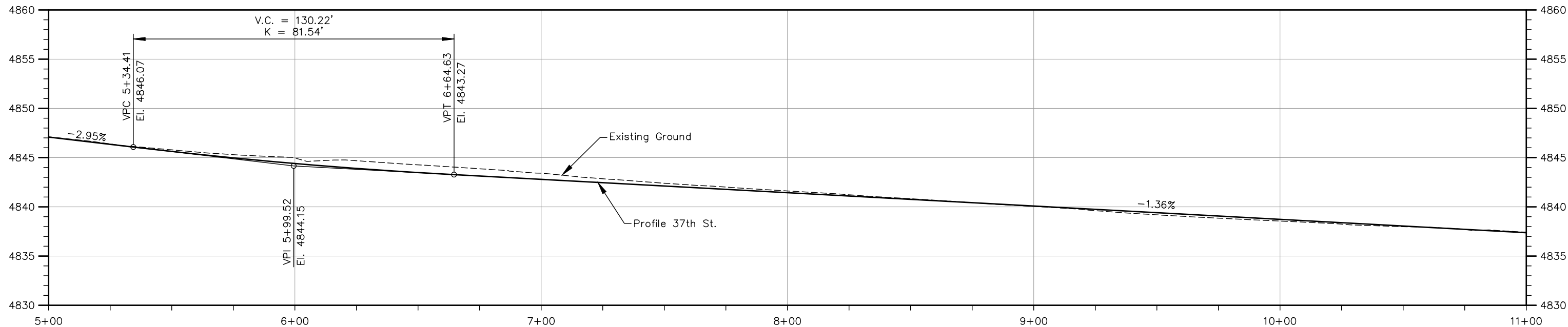
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 STU M415-025

Drawing Number PLAN-008  
 Sheet Number 37

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**37TH STREET PROFILE**



**37TH STREET PROFILE**

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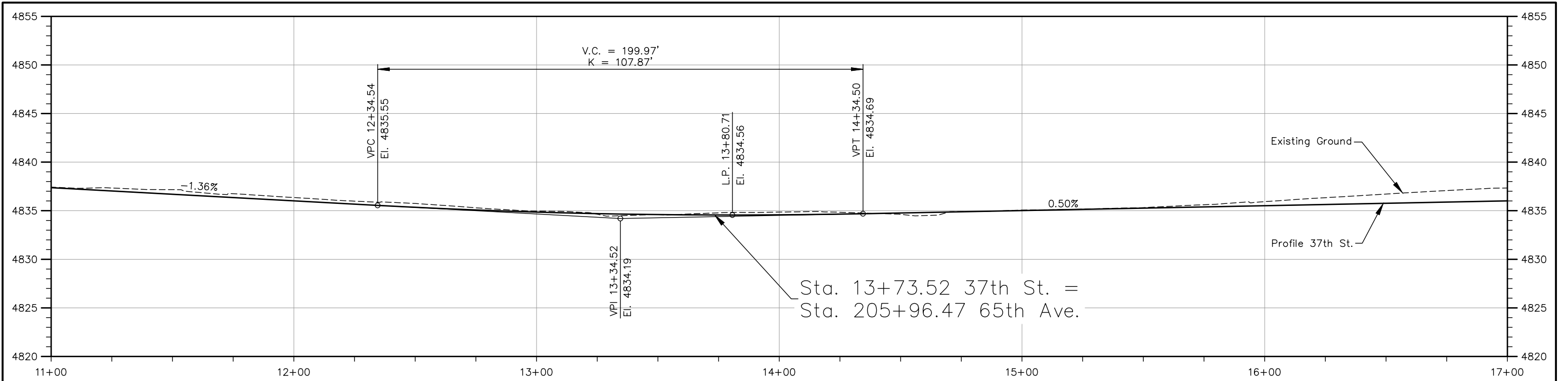
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Date	Comments	Initials



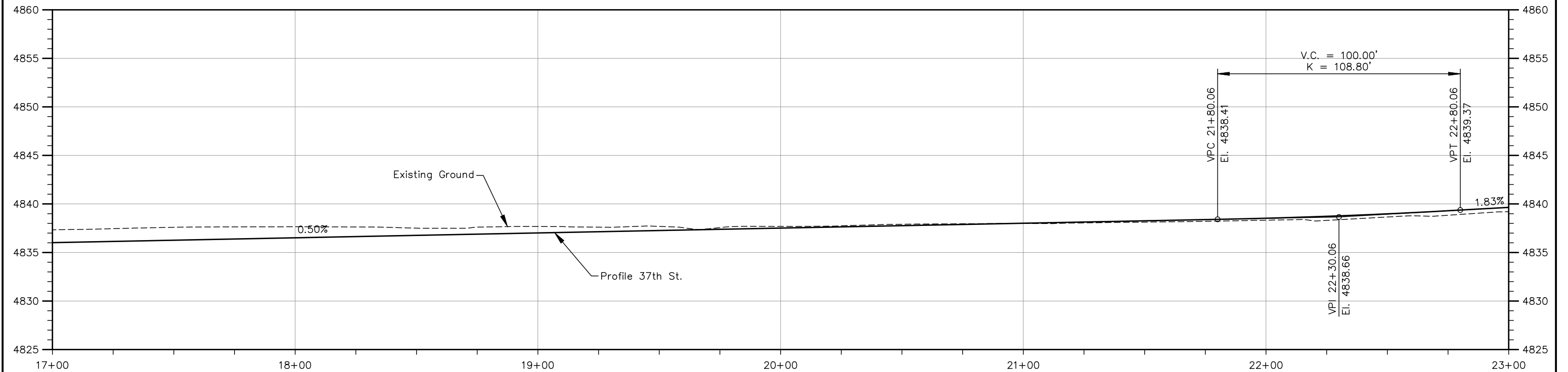
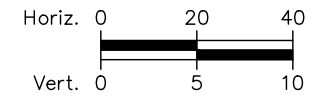
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<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PROFILE</b>		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: PROFILE Subset Sheets: 1 of 4
Detailer: S. Hemler		

<b>Project No.</b>
STU M415-025
Drawing Number PR-001
Sheet Number 38



**37TH STREET PROFILE**



**37TH STREET PROFILE**

90% DRAFT PLANS



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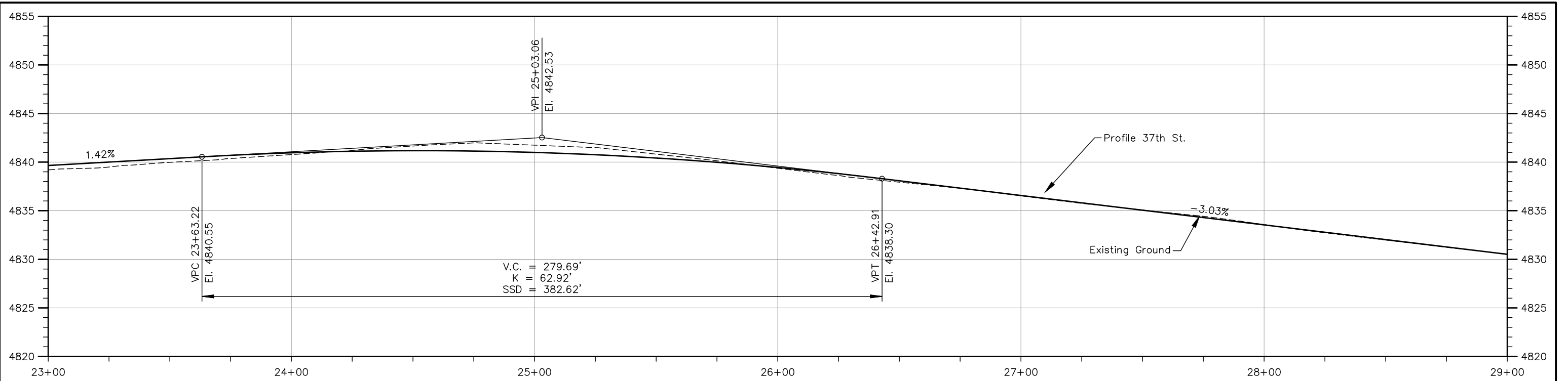
Sheet Revisions		
Date	Comments	Initials



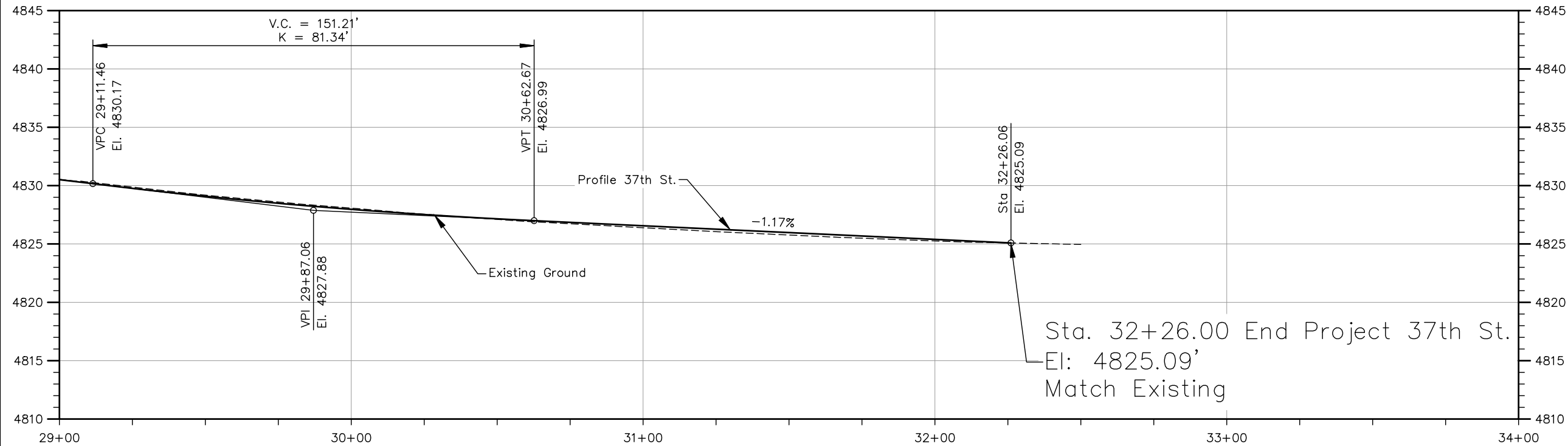
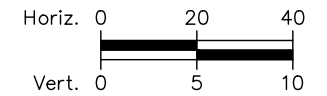
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No Revisions:
Revised:
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<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PROFILE</b>		
Designer: T. Tuttle	Structure Numbers	Drawing Number PR-002
Detailer: S. Hemler		
Sheet Subset: PROFILE	Subset Sheets: 2 of 4	

<b>Project No.</b>
STU M415-025
Sheet Number 39



**37TH STREET PROFILE**



**37TH STREET PROFILE**

90% DRAFT PLANS



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Date	Comments	Initials

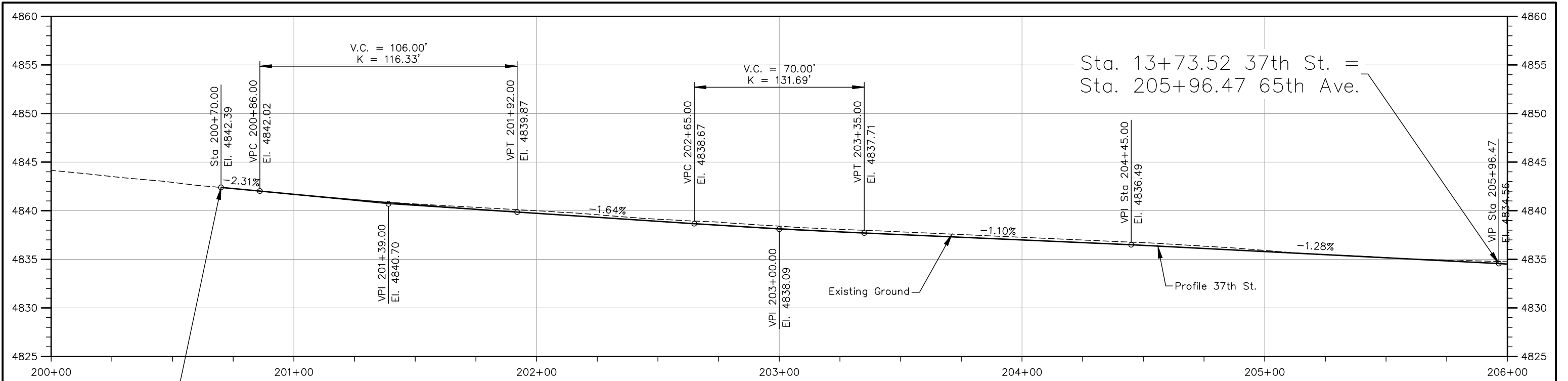


**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION ROADWAY PROFILE**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: PROFILE  
 Structure Numbers  
 Subset Sheets: 3 of 4

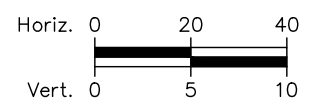
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 STU M415-025  
 Drawing Number PR-003  
 Sheet Number 40

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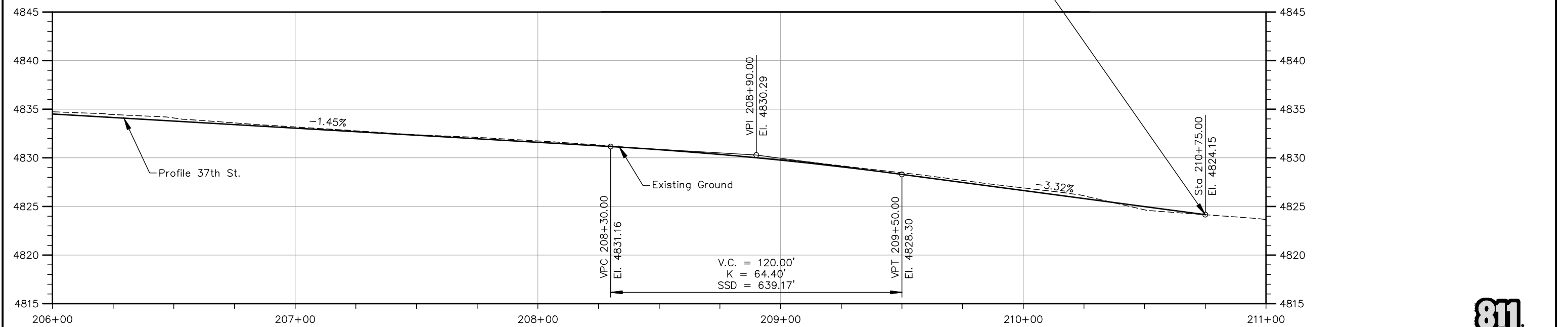


Sta. 200+70.00 Begin Project 65th Ave.  
El: 4842.39'  
Match Existing

**65TH AVENUE PROFILE**



Sta. 210+75.00 End Project 65th Ave.  
El: 4824.15'  
Match Existing



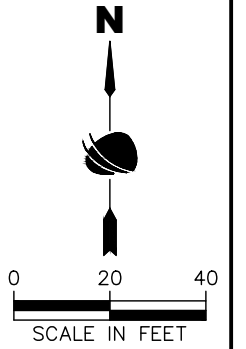
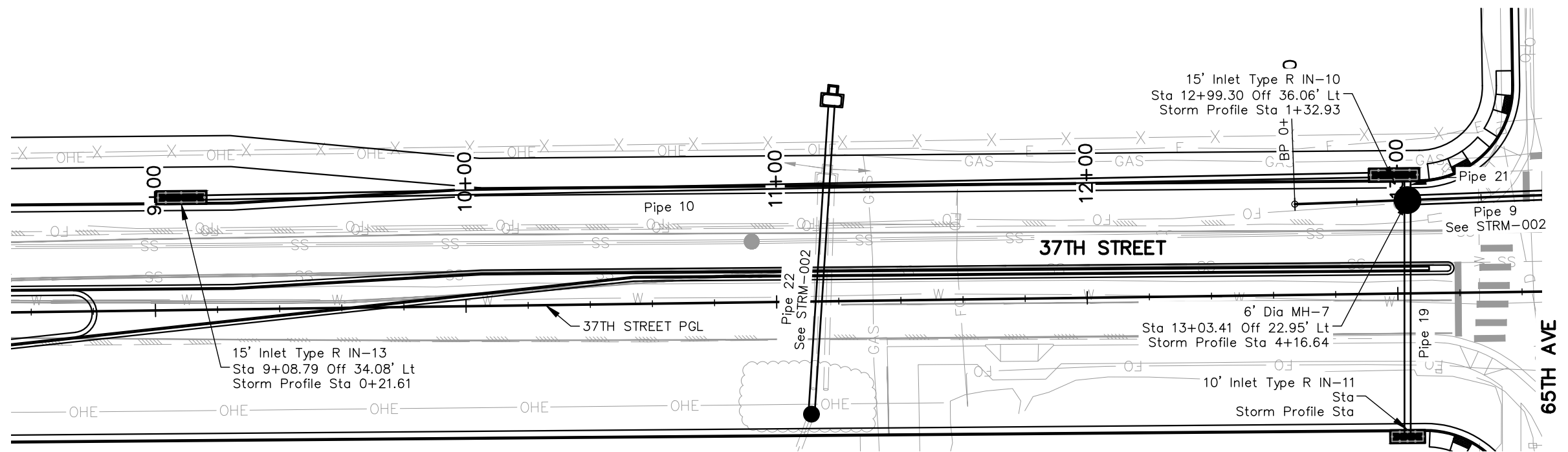
**65TH AVENUE PROFILE**



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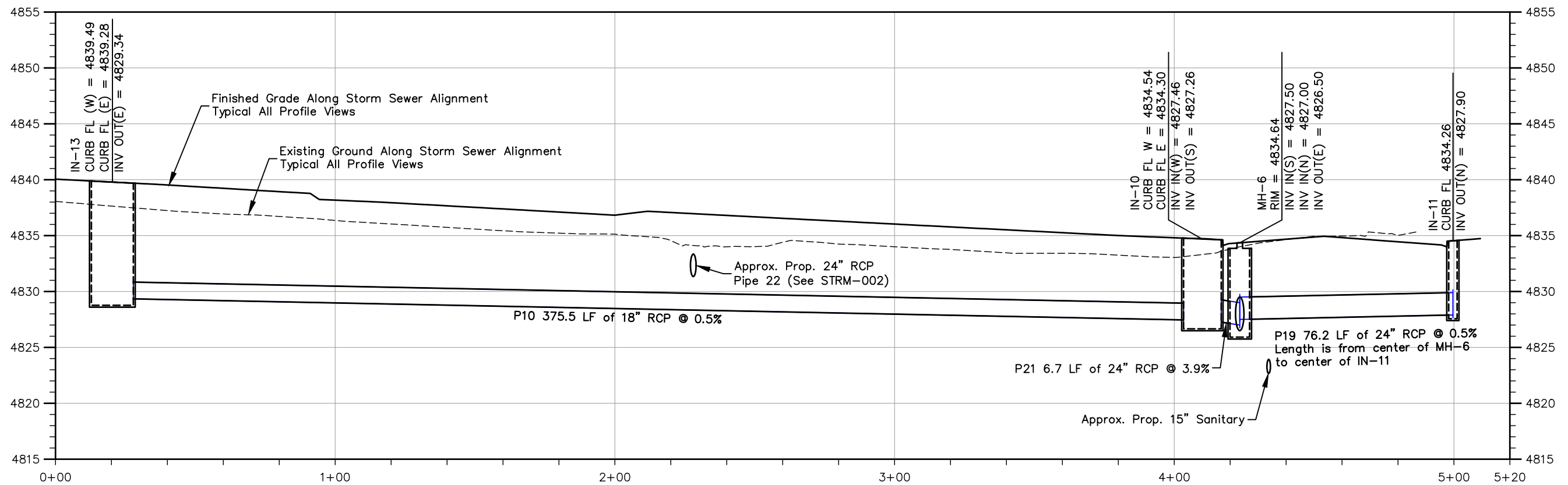
All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/17/2025 File Name: PR P3-001 ROADWAY PROFILES.DWG Horiz. Scales Noted Vert. Scales Noted	<table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sheet Revisions			Date	Comments	Initials											<b>As Constructed</b> No Revisions: Revised: Void:	<b>37TH ST &amp; 65TH AVE INTERSECTION ROADWAY PROFILE</b>	<table border="1"> <tr> <td colspan="2">Project No.</td> </tr> <tr> <td colspan="2">STU M415-025</td> </tr> <tr> <td>Designer: T. Tuttle</td> <td>Structure Numbers</td> </tr> <tr> <td>Detailer: S. Hemler</td> <td></td> </tr> <tr> <td>Sheet Subset: PROFILE</td> <td>Subset Sheets: 4 of 4</td> </tr> </table>	Project No.		STU M415-025		Designer: T. Tuttle	Structure Numbers	Detailer: S. Hemler		Sheet Subset: PROFILE	Subset Sheets: 4 of 4
	Sheet Revisions																														
	Date	Comments	Initials																												
Project No.																															
STU M415-025																															
Designer: T. Tuttle	Structure Numbers																														
Detailer: S. Hemler																															
Sheet Subset: PROFILE	Subset Sheets: 4 of 4																														
Drawing Number PR-004																															
Sheet Number 41																															

90% DRAFT PLANS



**Notes (typical all storm sewer sheets):**  
 See CDOT M-604-12 for station points at Type R Inlets.  
 Manhole station points are at the center of manholes.  
 Types C and D Inlet station point are at the center of inlets.  
 Stations and offsets are from 37th Street alignment.

**IN13-P10-IN10-P21-MH6-P19-IN11 PLAN**



**Notes (typical all storm sewer sheets):**  
 Profile stationing along storm sewer alignment.  
 Pipe lengths are from center of manhole or midpoint of inner wall of inlet, unless otherwise specified.

**IN13-P10-IN10-P21-MH6-P19-IN11 PROFILE**

Print Date: 9/17/2025	
File Name: STRM-001 STORM SEWER PLAN AND PROFILE.DWG	
Horiz. Scale: 1"=40'	Vert. Scale: 1"=4'
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date	Comments	Initials

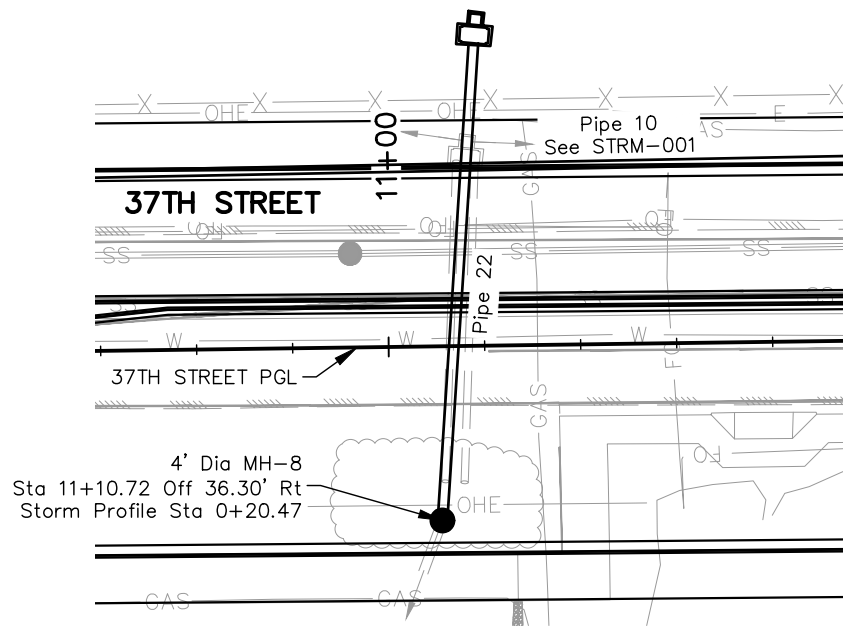


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No Revisions:
Revised:
Void:

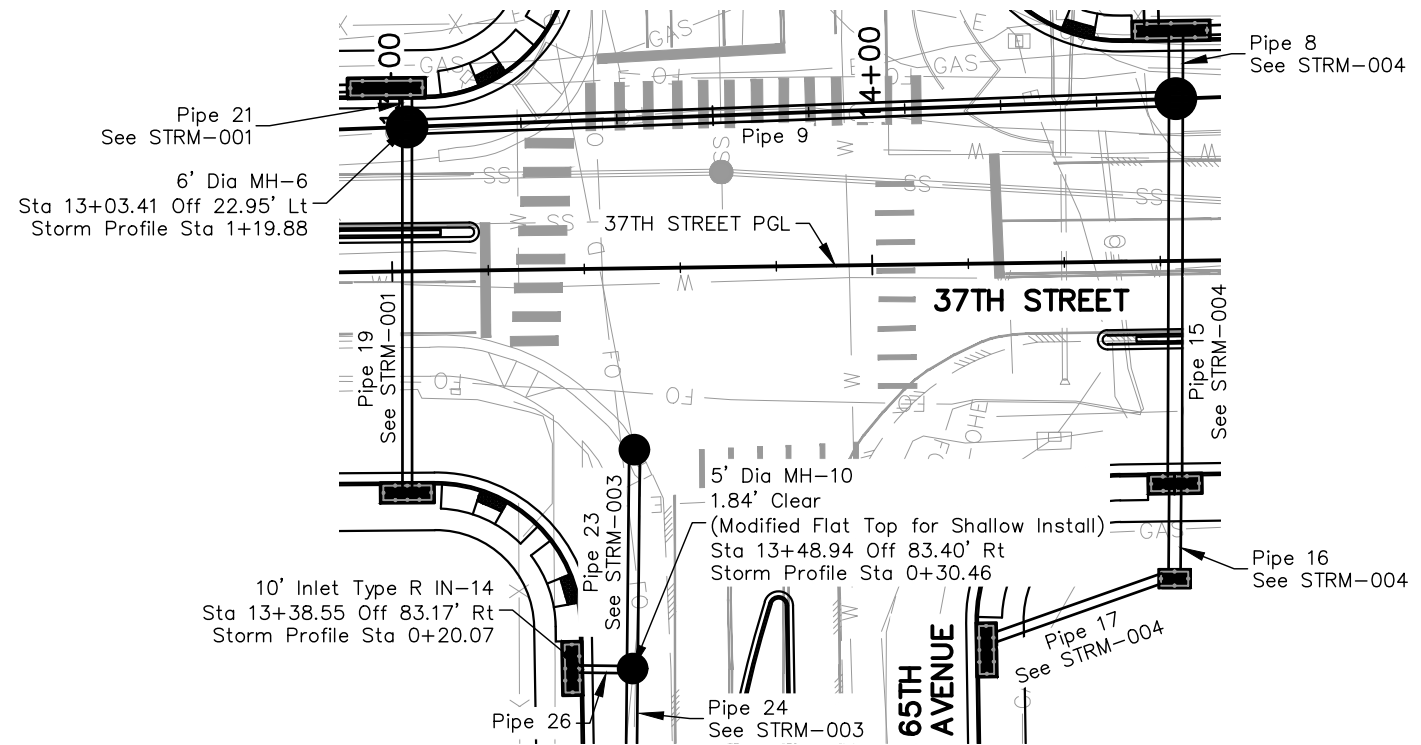
<b>37TH ST &amp; 65TH AVE INTERSECTION STORM SEWER PLAN &amp; PROFILE</b>		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: STRM SWR Subset Sheets: 1 of 8
Detailer: J. Boardwell		

<b>Project No.</b>
STU M415-025
Drawing Number STRM-001
Sheet Number 42

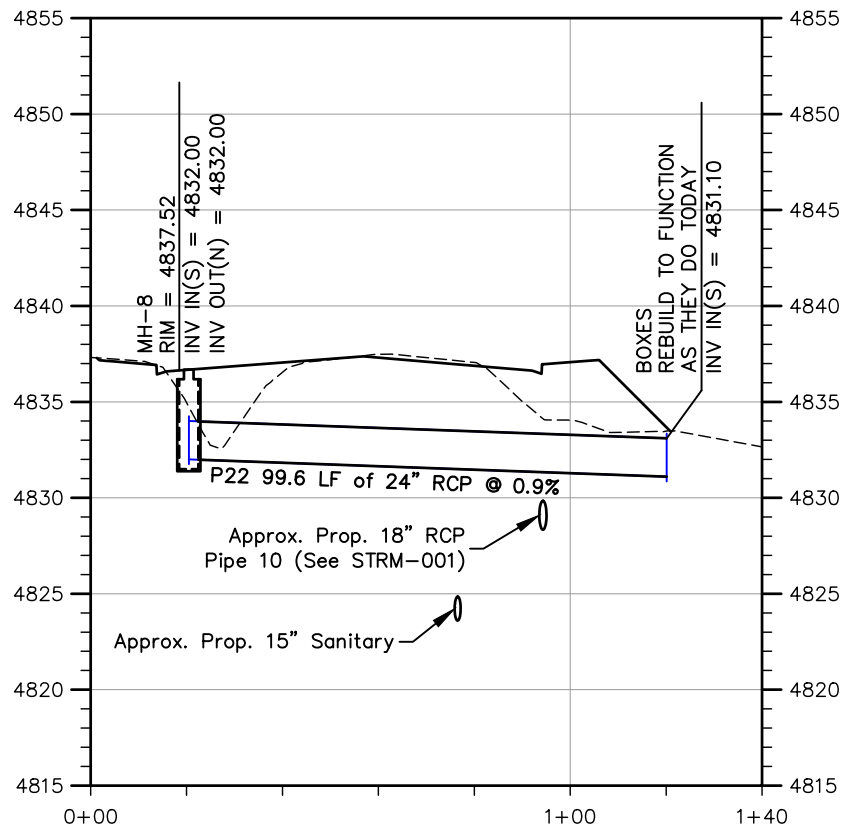
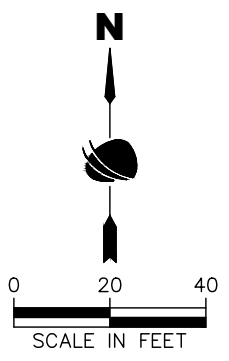
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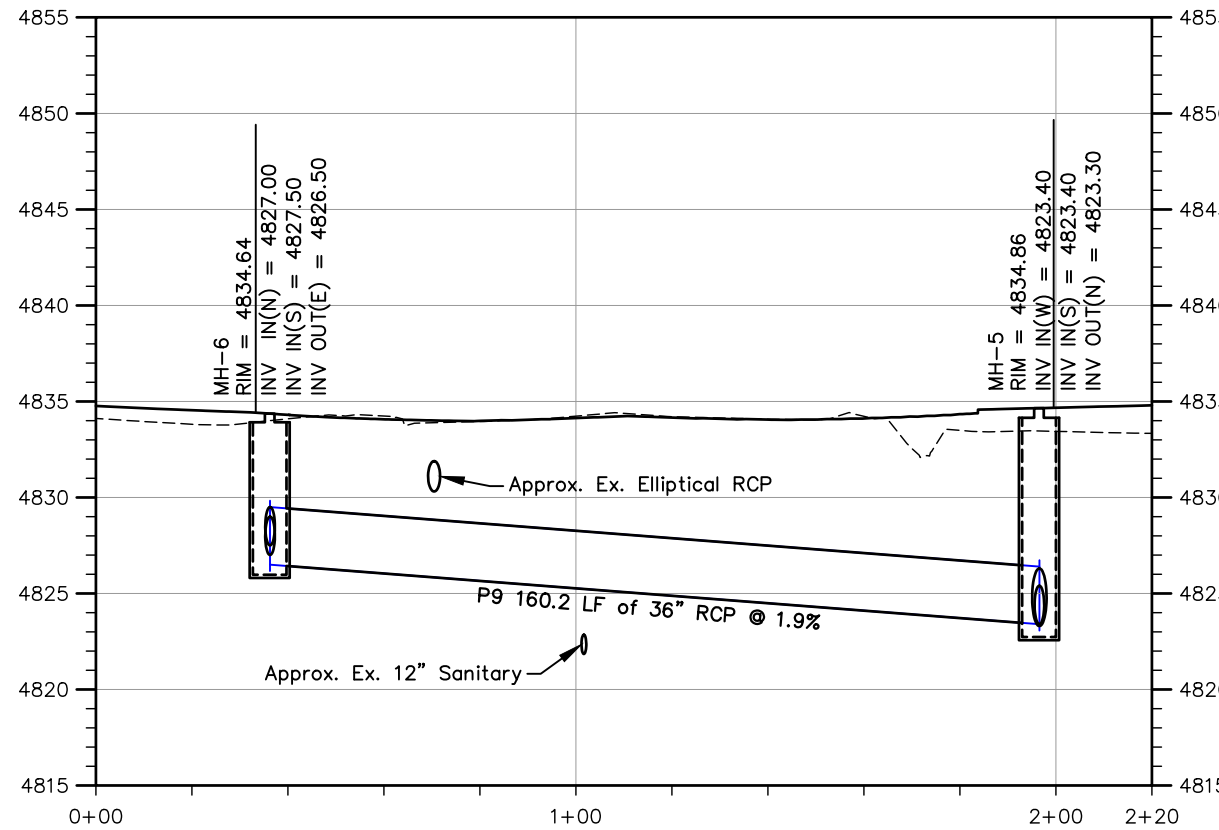
**MH8-P22-BOXES PLAN**



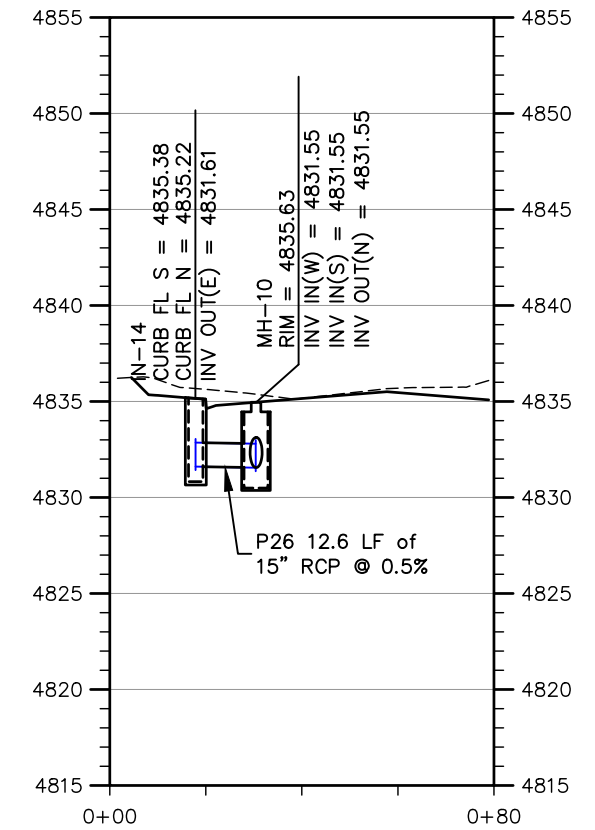
**MH6-P9-MH5 and IN14-P26-MH10 PLAN**



**MH8-P22-BOXES PROFILE**



**MH6-P9-MH5 PROFILE**



**IN14-P26-MH10 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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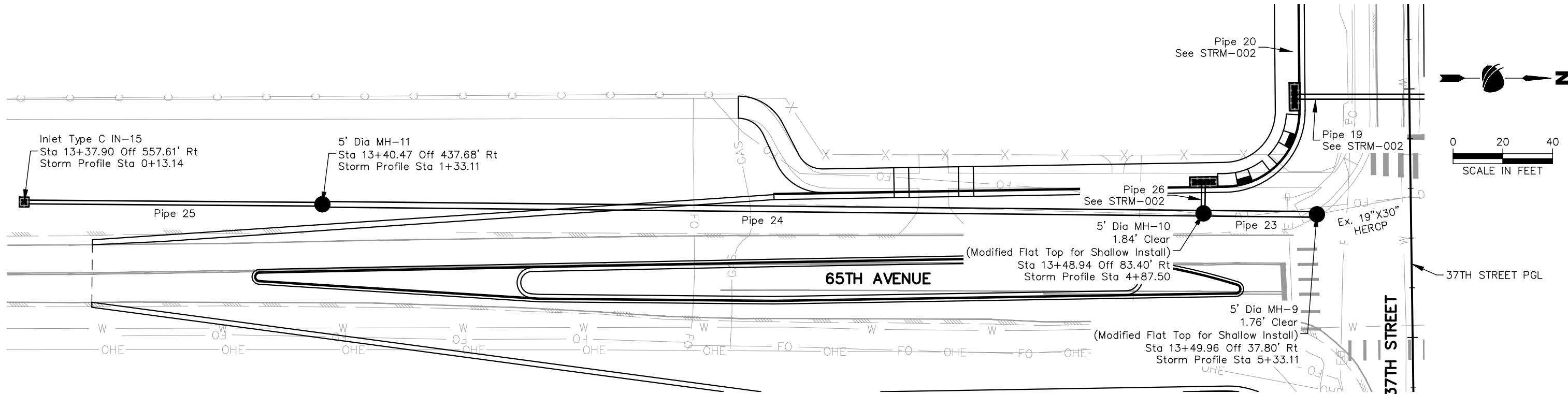
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Date	Comments	Initials



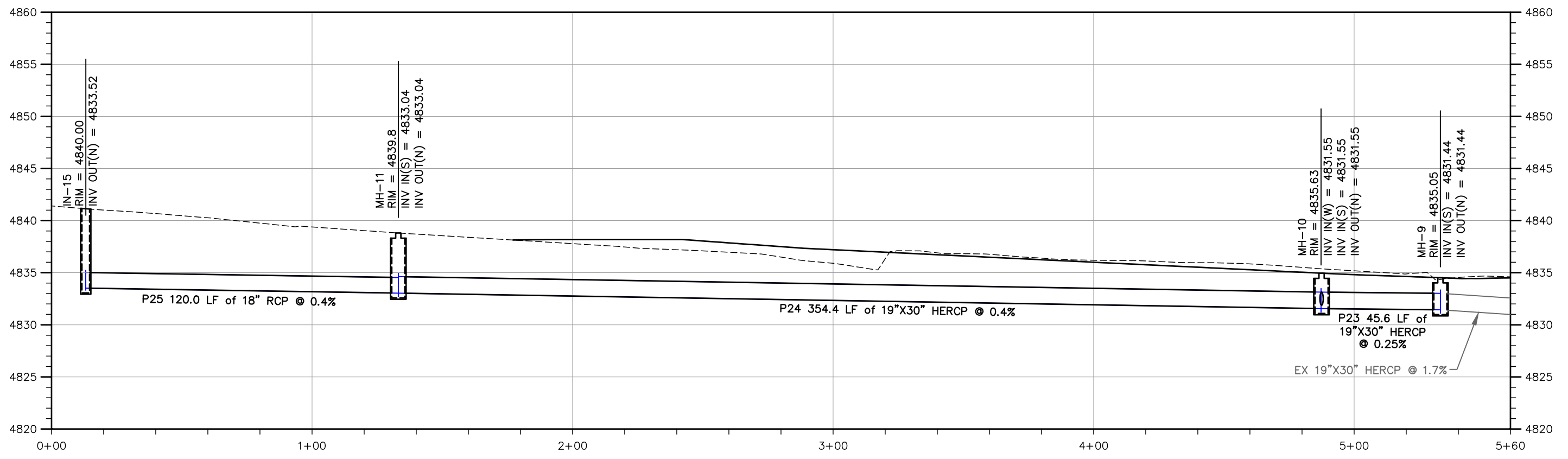
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37TH ST & 65TH AVE INTERSECTION STORM SEWER PLAN & PROFILE	
Designer: T. Tuttle	Structure Numbers
Detailer: J. Boardwell	
Sheet Subset: STRM SWR	Subset Sheets: 2 of 8

Project No.
STU M415-025
Drawing Number STRM-002
Sheet Number 43



**IN15-P25-MH11-P24-MH10-P23-MH9 PLAN**



**IN15-P25-MH11-P24-MH10-P23-MH9 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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 12076 Grant Street  
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 Ph: (303) 962-9300  
 Fax: (303) 962-9350

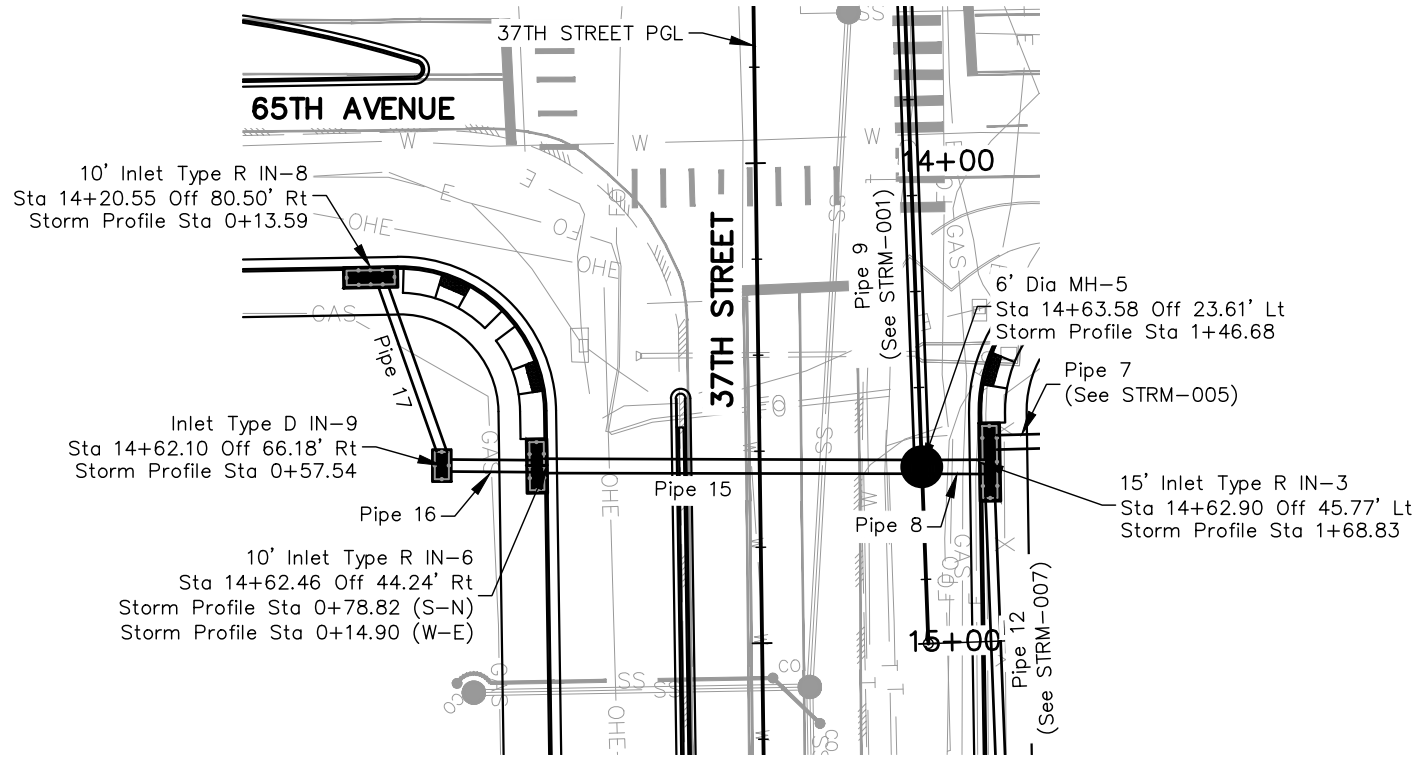
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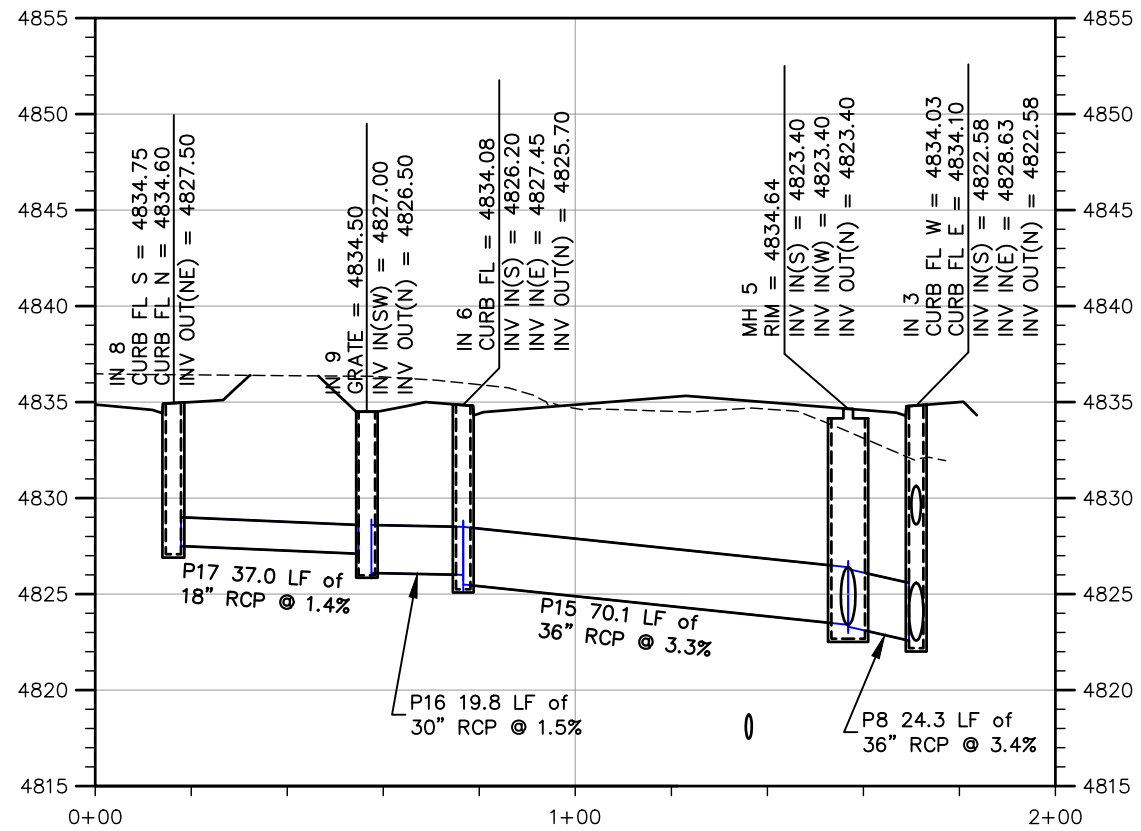
**37TH ST & 65TH AVE INTERSECTION STORM SEWER PLAN & PROFILE**

Designer: T. Tuttle  
 Detailer: J. Boardwell  
 Sheet Subset: STRM SWR  
 Structure Numbers:  
 Subset Sheets: 3 of 8

**Project No.**  
 STU M415-025  
**Drawing Number** STRM-003  
**Sheet Number** 44



**IN8-P17-IN9-P16-IN6-P15-MH5-P8-IN3 PLAN**



**IN8-P17-IN9-P16-IN6-P15-MH5-P8-IN3 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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All seals for this set of drawings are applied to the cover page(s)

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12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	

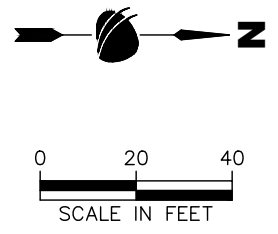
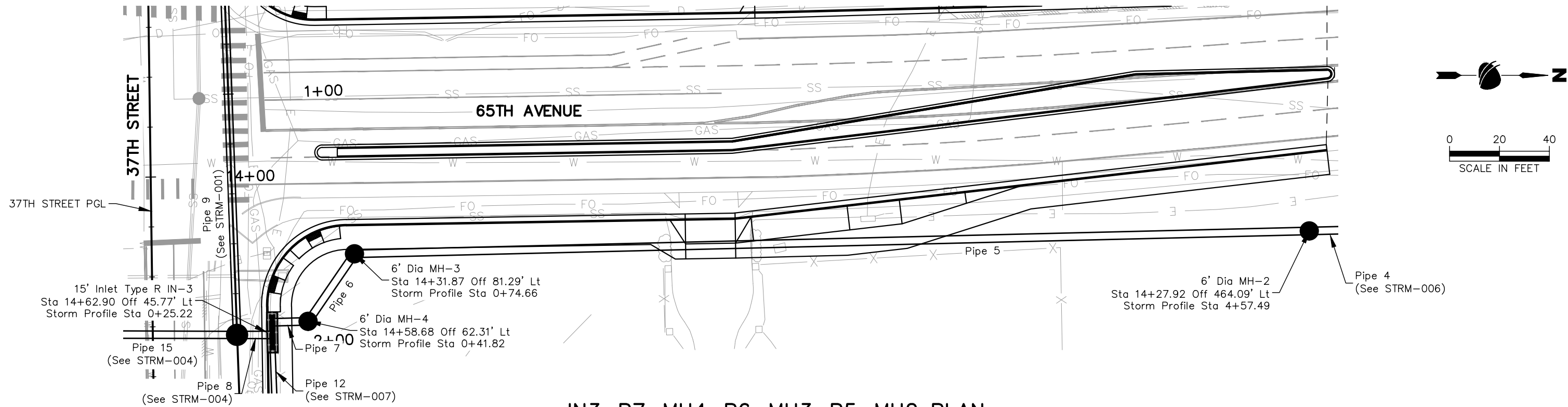
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Date	Comments	Initials



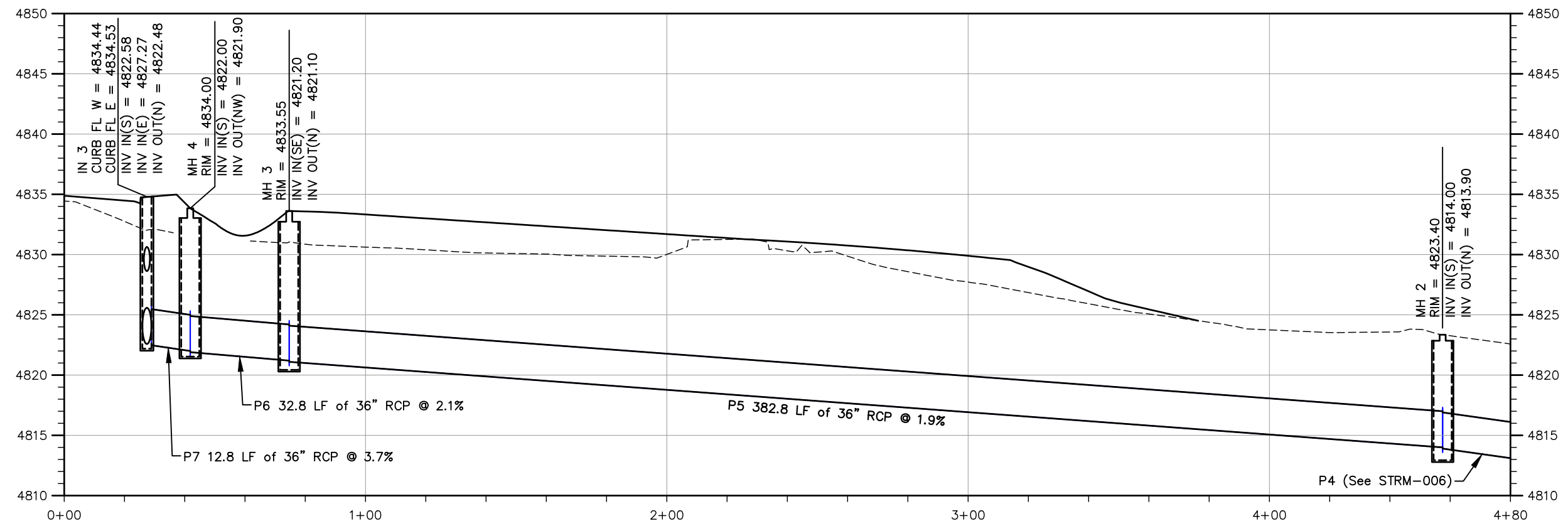
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Designer: T. Tuttle	Structure Numbers	Sheet Subset: STRM SWR Subset Sheets: 4 of 8
Detailer: J. Boardwell		
Sheet Subset: STRM SWR		

<b>Project No.</b>
STU M415-025
Drawing Number STRM-004
Sheet Number 45



**IN3-P7-MH4-P6-MH3-P5-MH2 PLAN**



**IN3-P7-MH4-P6-MH3-P5-MH2 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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 Ph: (303) 962-9300  
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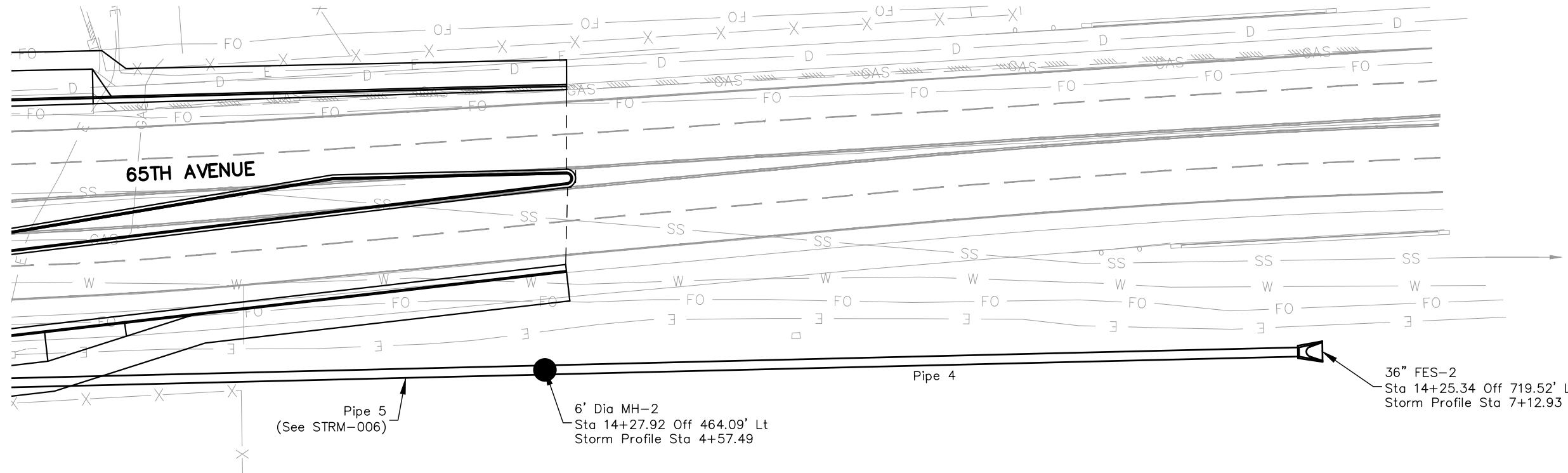
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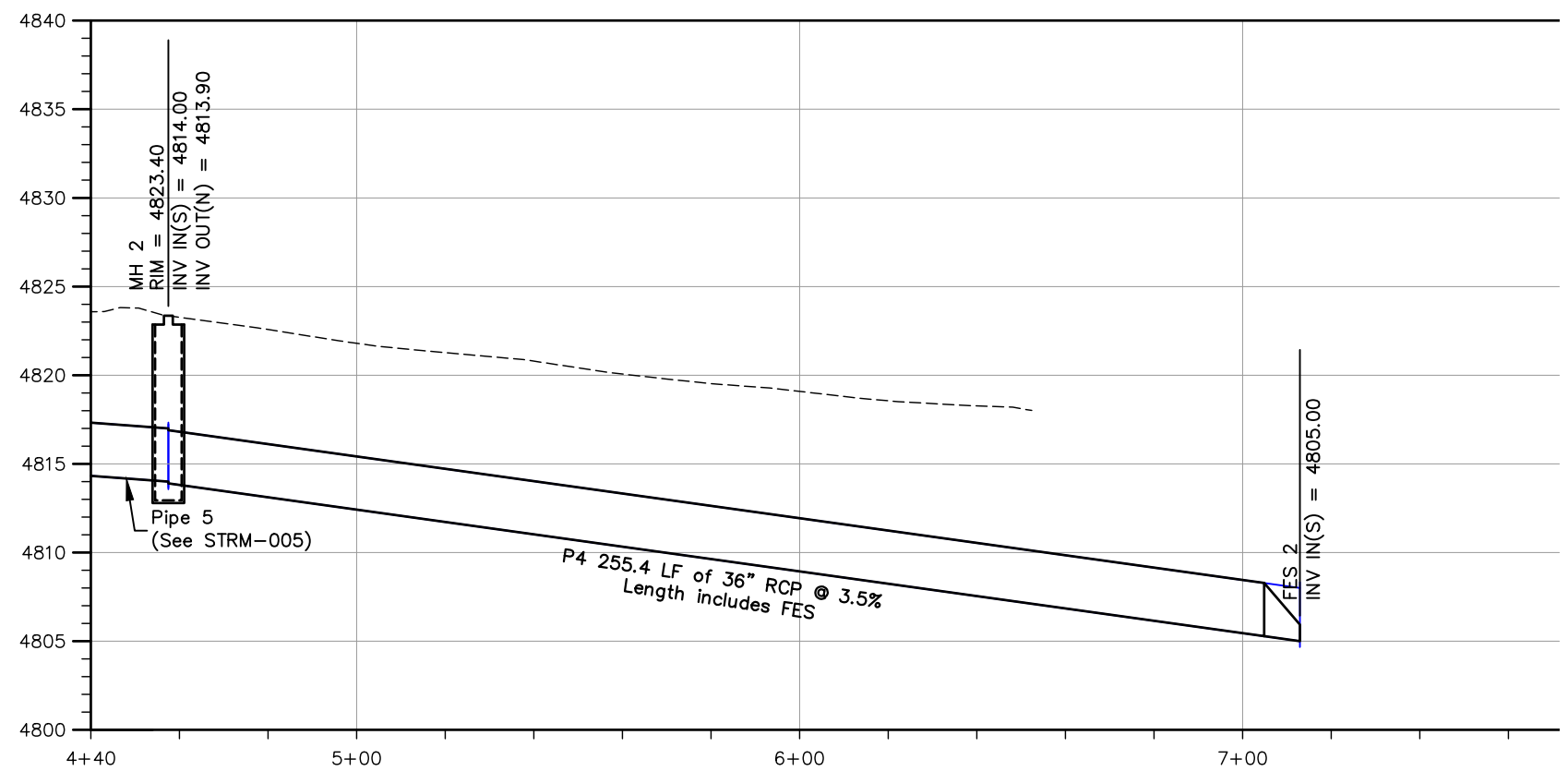
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37TH ST & 65TH AVE INTERSECTION STORM SEWER PLAN & PROFILE		
Designer: T. Tuttle	Structure Numbers	
Detailer: J. Boardwell		
Sheet Subset: STRM SWR	Subset Sheets: 5 of 8	

Project No.
STU M415-025
Drawing Number STRM-005
Sheet Number 46



**MH2-P4-FES2 PLAN**



**MH2-P4-FES2 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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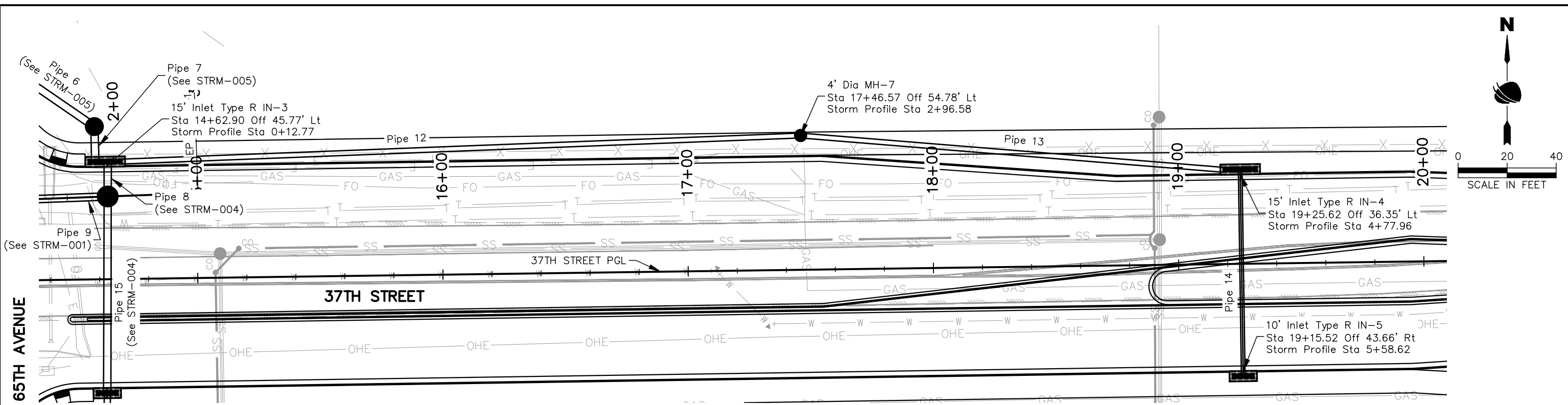
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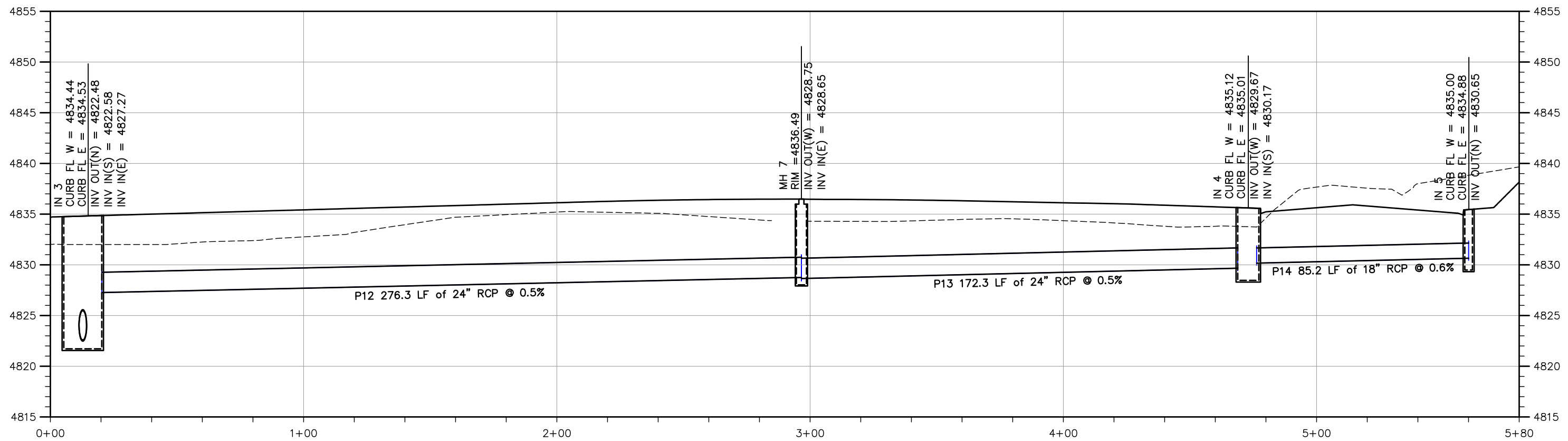
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Designer: T. Tuttle	Structure Numbers	Sheet Subset: STRM SWR Subset Sheets: 6 of 8
Detailer: J. Boardwell		

<b>Project No.</b>
STU M415-025
Drawing Number STRM-006
Sheet Number 47



**IN3-P12-MH6-P13-IN4-P14-IN5 PLAN**



**IN3-P12-MH6-P13-IN4-P14-IN5 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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All seals for this set of drawings are applied to the cover page(s)

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Sheet Revisions		
Date	Comments	Initials

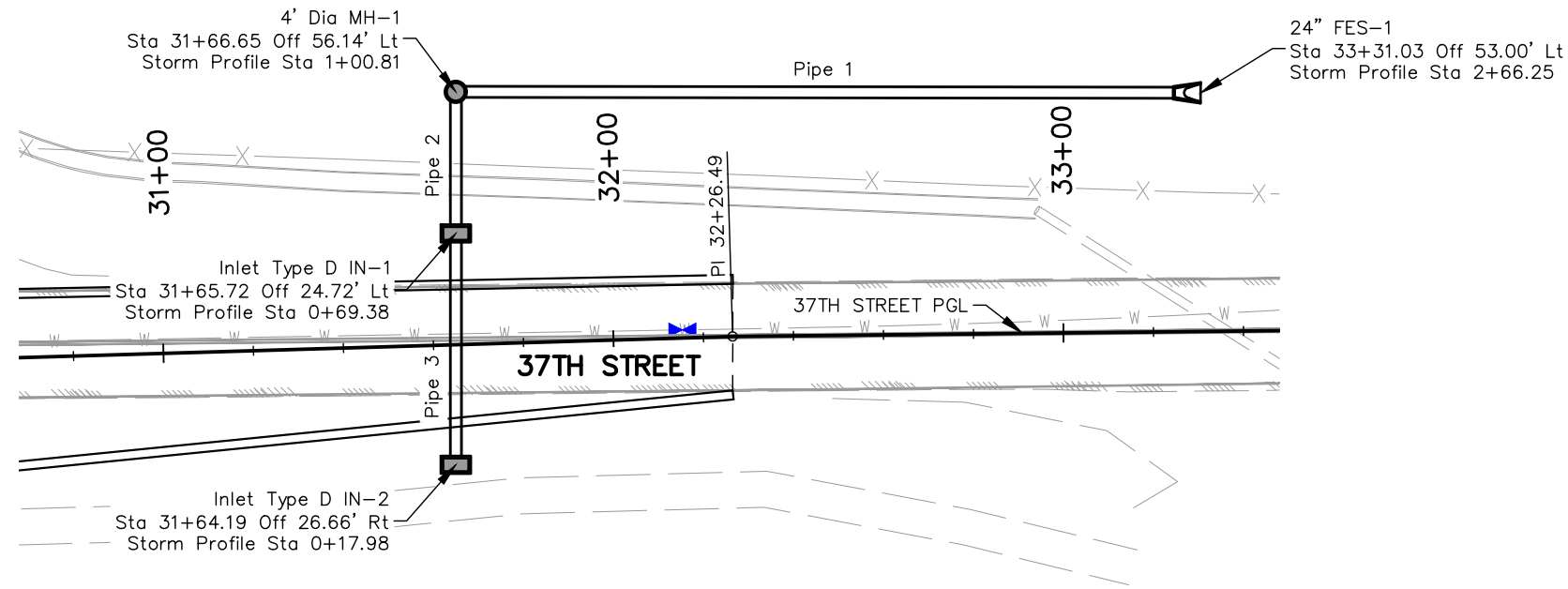


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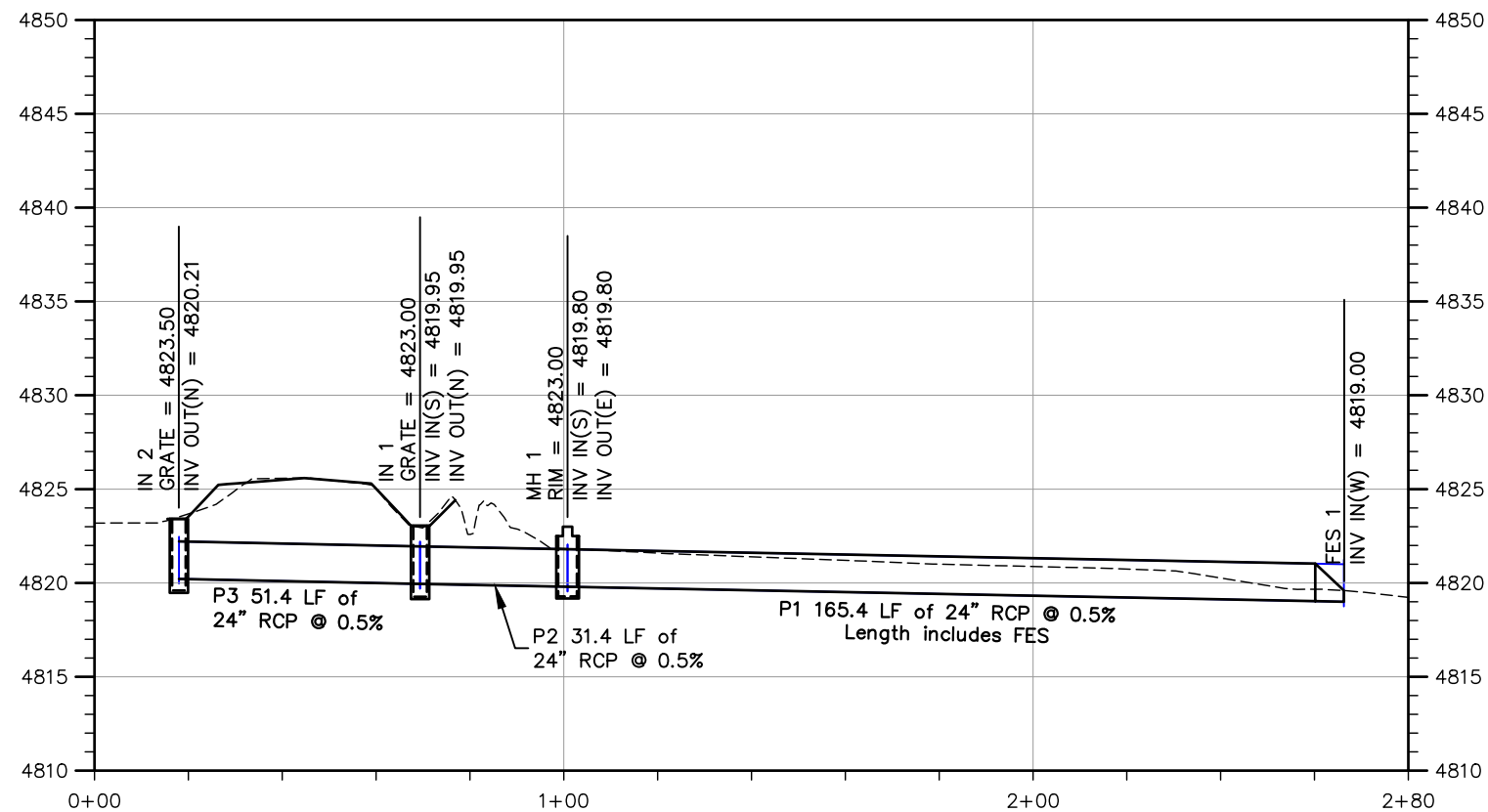
**37TH ST & 65TH AVE INTERSECTION  
 STORM SEWER PLAN & PROFILE**

Designer: T. Tuttle  
 Detailer: J. Boardwell  
 Sheet Subset: STRM SWR  
 Structure Numbers:  
 Subset Sheets: 7 of 8

**Project No.**  
 STU M415-025  
 Drawing Number STRM-007  
 Sheet Number 48



**IN2-P3-IN1-P2-MH1-P1-FES1 PLAN**



**IN2-P3-IN1-P2-MH1-P1-FES1 PROFILE**

Plot Date: 9/17/2025 12:57 PM Plotted By: Sarah Hamler  
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025  
 File Name: STRM-001 STORM SEWER PLAN AND PROFILE.DWG  
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Date	Comments	Initials

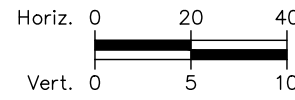
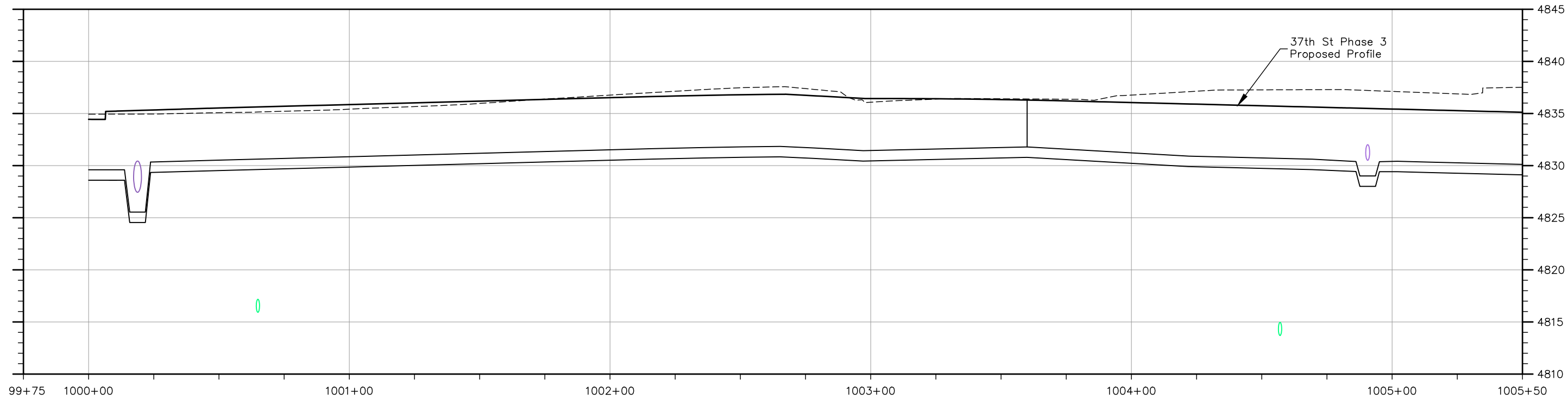
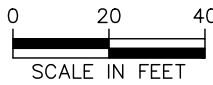
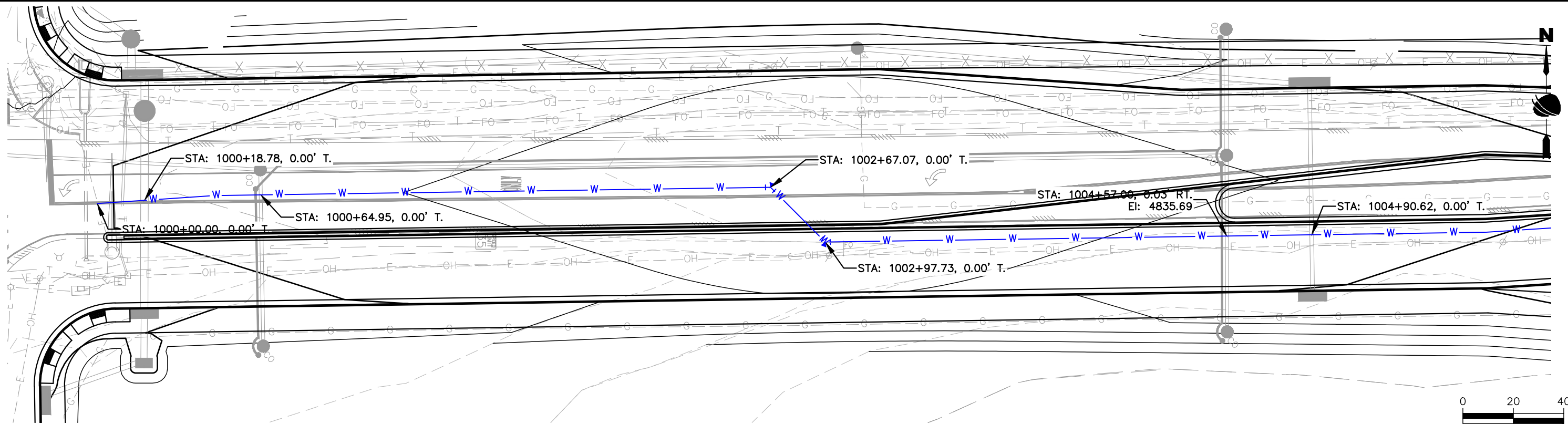


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**37TH ST & 65TH AVE INTERSECTION STORM SEWER PLAN & PROFILE**

Designer: T. Tuttle  
 Detailer: J. Boardwell  
 Sheet Subset: STRM SWR  
 Structure Numbers:  
 Subset Sheets: 8 of 8

**Project No.**  
 STU M415-025  
 Drawing Number STRM-008  
 Sheet Number 49



90% DRAFT PLANS

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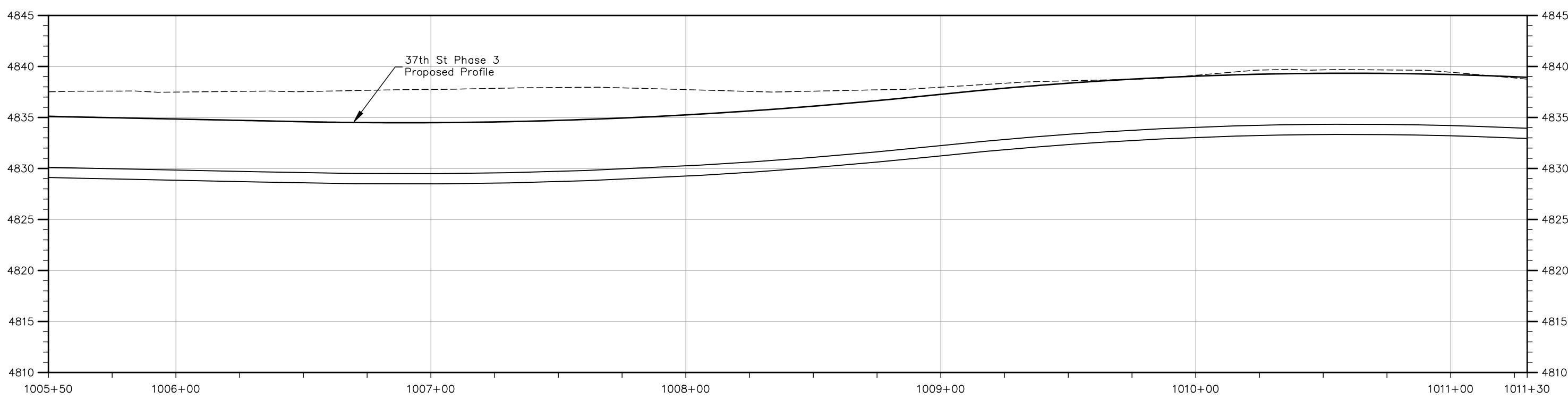
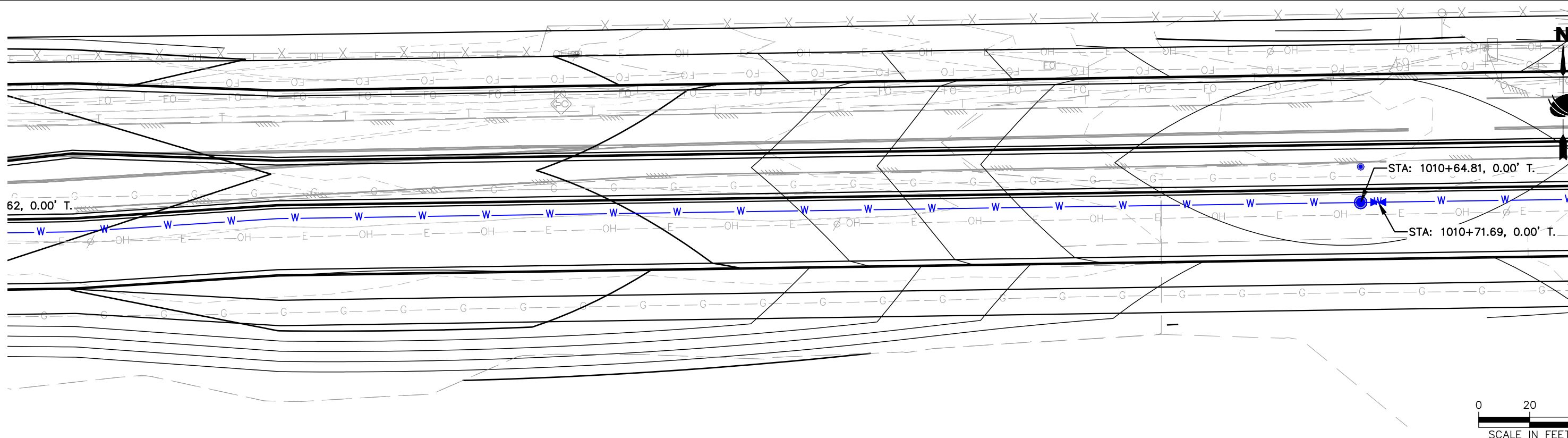
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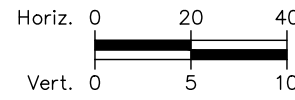
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Detailer:	S. Hemler		
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Drawing Number WTR-001
Sheet Number



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Sheet Revisions		
Date	Comments	Initials



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**37TH ST & 65TH AVE INTERSECTION  
 WATERLINE PLAN & PROFILE**

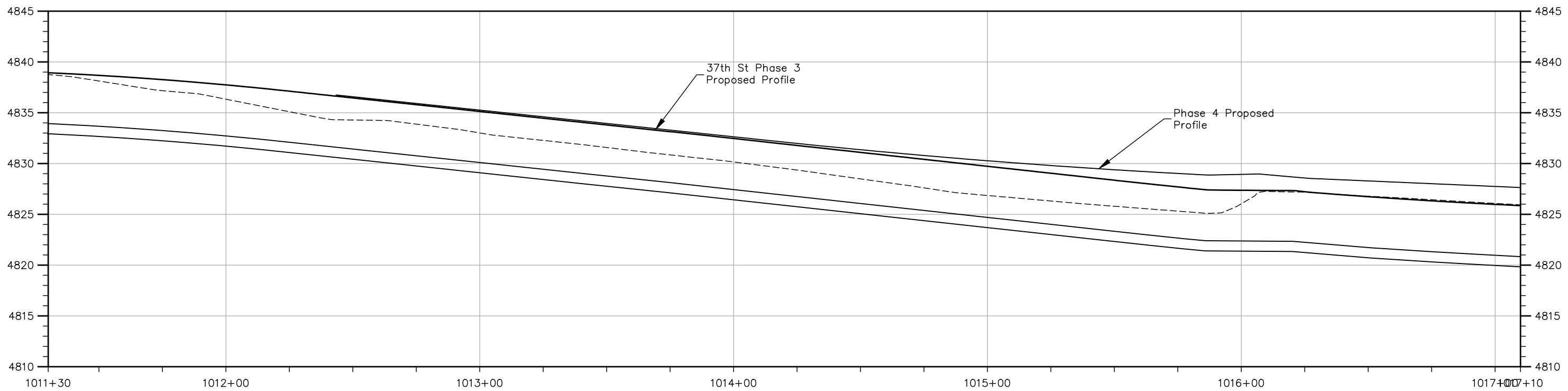
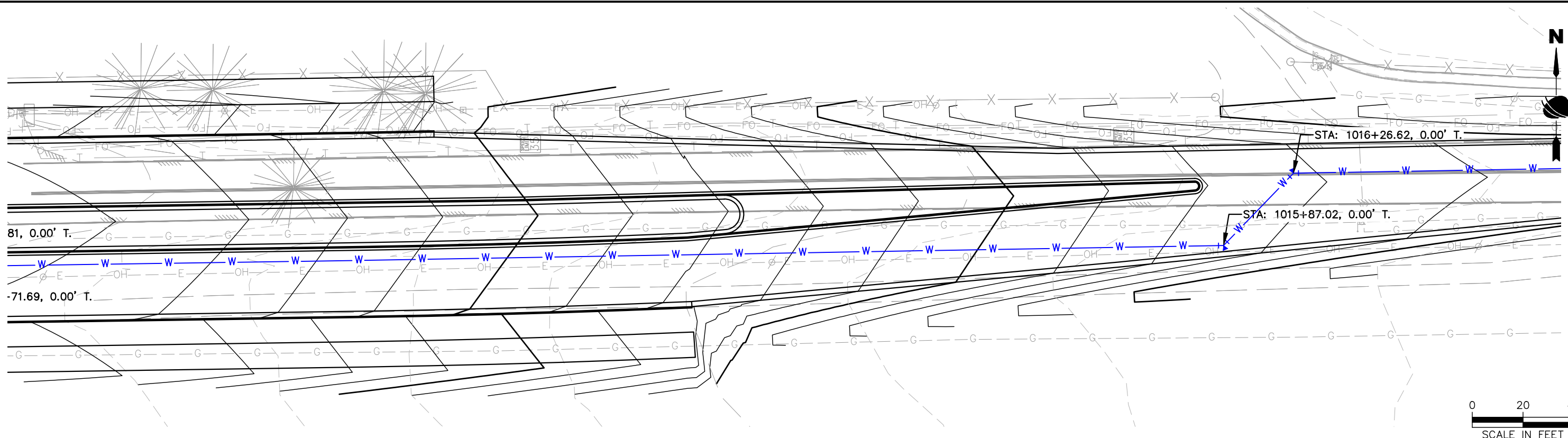
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Structure Numbers  
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**Project No.**  
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 Drawing Number WTR-002  
 Sheet Number

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90% DRAFT PLANS



90% DRAFT PLANS



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Sheet Revisions		
Date	Comments	Initials



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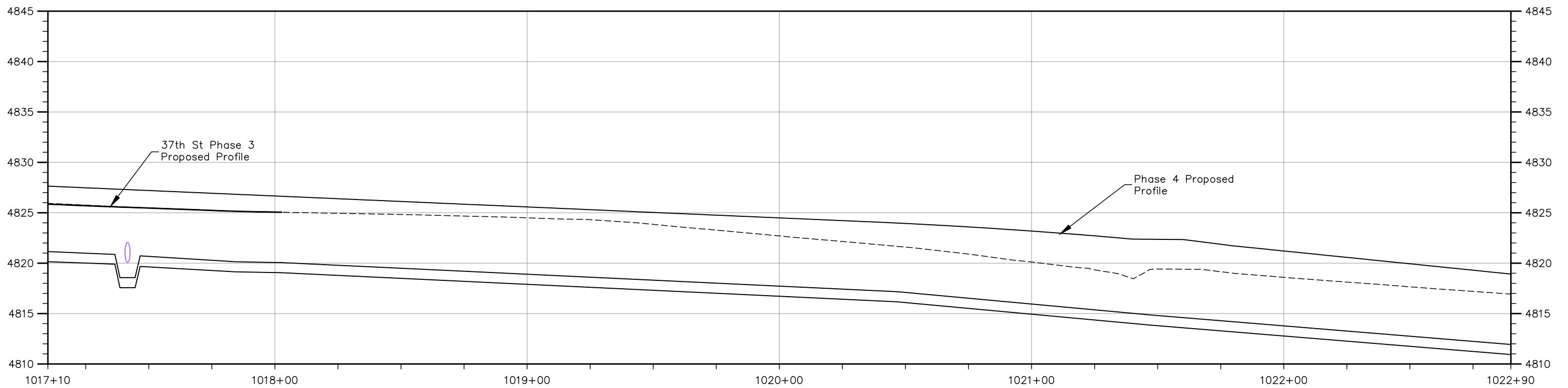
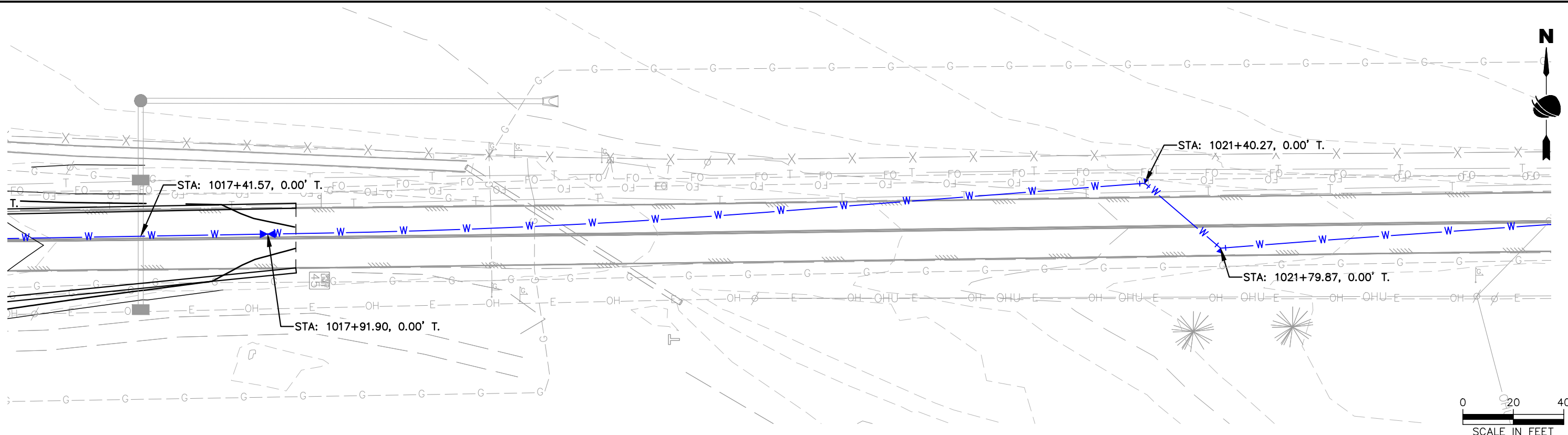
**37TH ST & 65TH AVE INTERSECTION WATERLINE PLAN & PROFILE**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: WTR P&P

Structure Numbers  
 Subset Sheets: ## of

<b>Project No.</b>
STU M415-025
Drawing Number WTR-003
Sheet Number

Plot Date: 9/17/2025 2:46 PM Plotted By: Sarah Hemler  
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 File Name: WTR P3-001 WATERLINE PLAN & PROFILE.DWG  
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Sheet Revisions		
Date	Comments	Initials



**As Constructed**

No Revisions:

Revised:

Void:

**37TH ST & 65TH AVE INTERSECTION WATERLINE PLAN & PROFILE**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: WTR P&P

Structure Numbers:     
 Subset Sheets: ## of

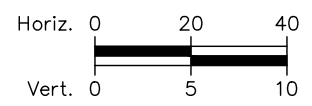
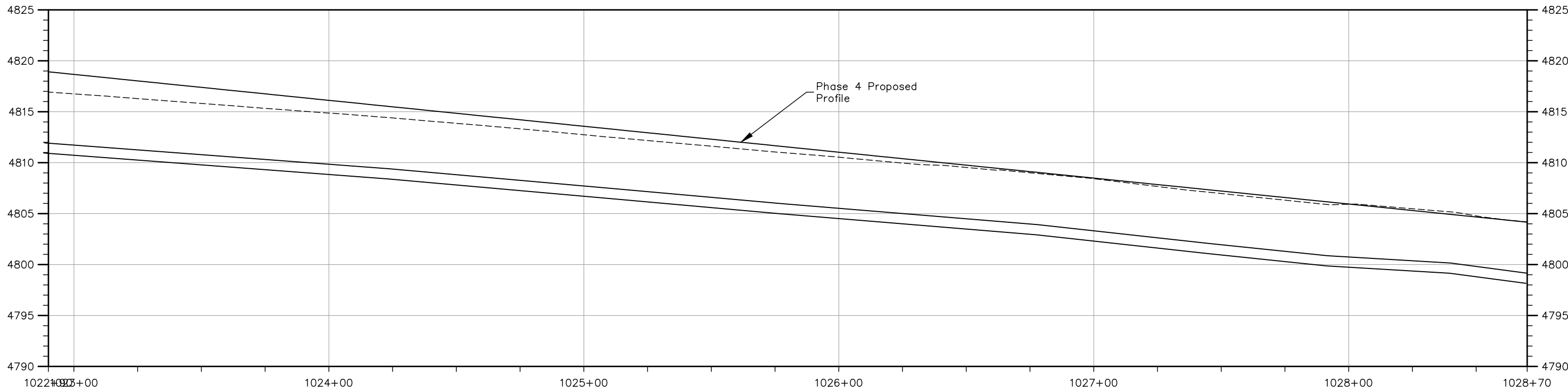
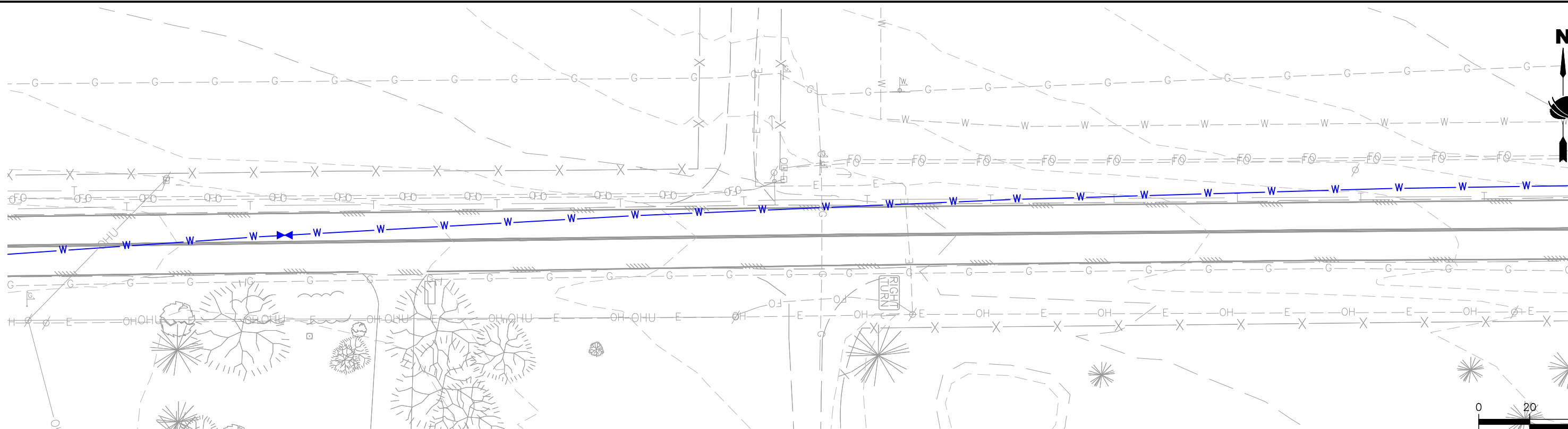
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STU M415-025

Drawing Number WTR-004

Sheet Number

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Date	Comments	Initials



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**37TH ST & 65TH AVE INTERSECTION  
 WATERLINE PLAN & PROFILE**

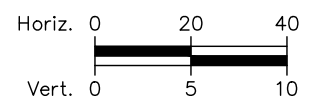
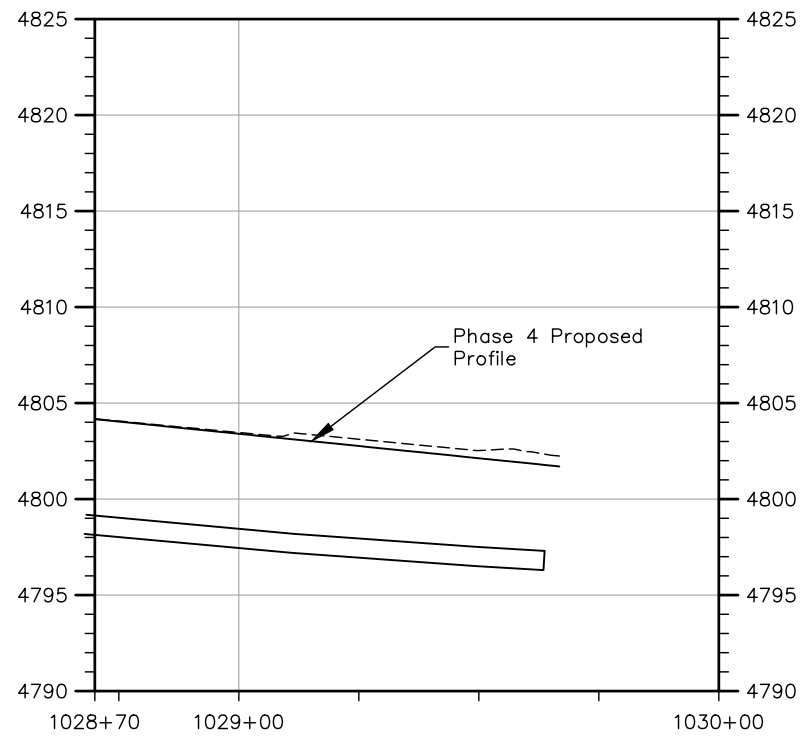
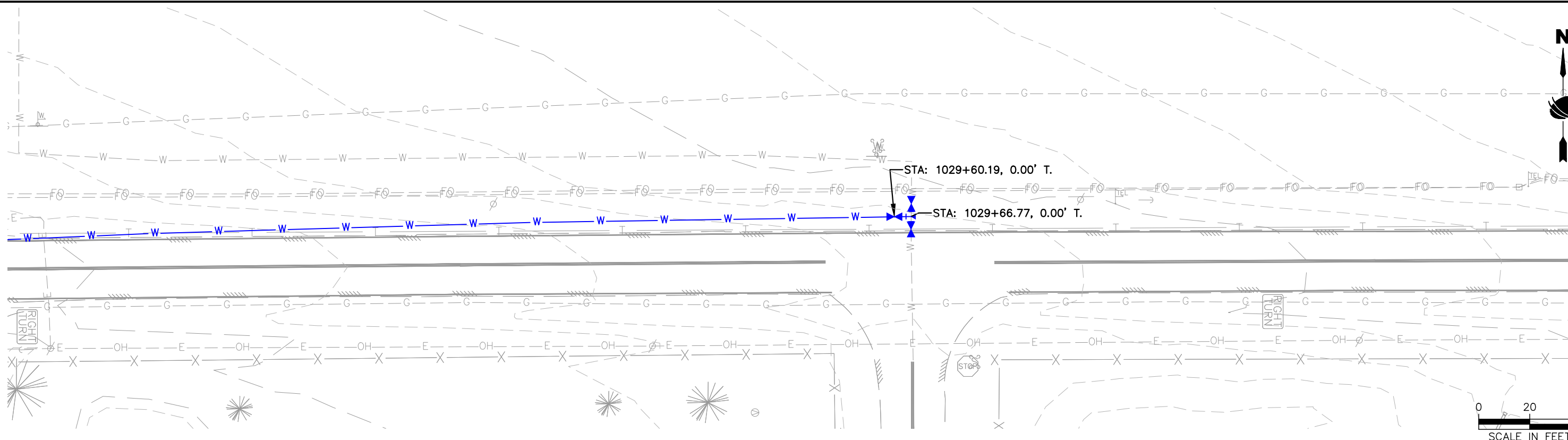
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 Detailer: S. Hemler  
 Sheet Subset: WTR P&P

Structure Numbers  
 Subset Sheets: ## of

**Project No.**  
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 Drawing Number WTR-005  
 Sheet Number

Plot Date: 9/17/2025 2:50 PM Plotted By: Sarah Hemler  
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**37TH ST & 65TH AVE INTERSECTION  
 WATERLINE PLAN & PROFILE**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: WTR P&P

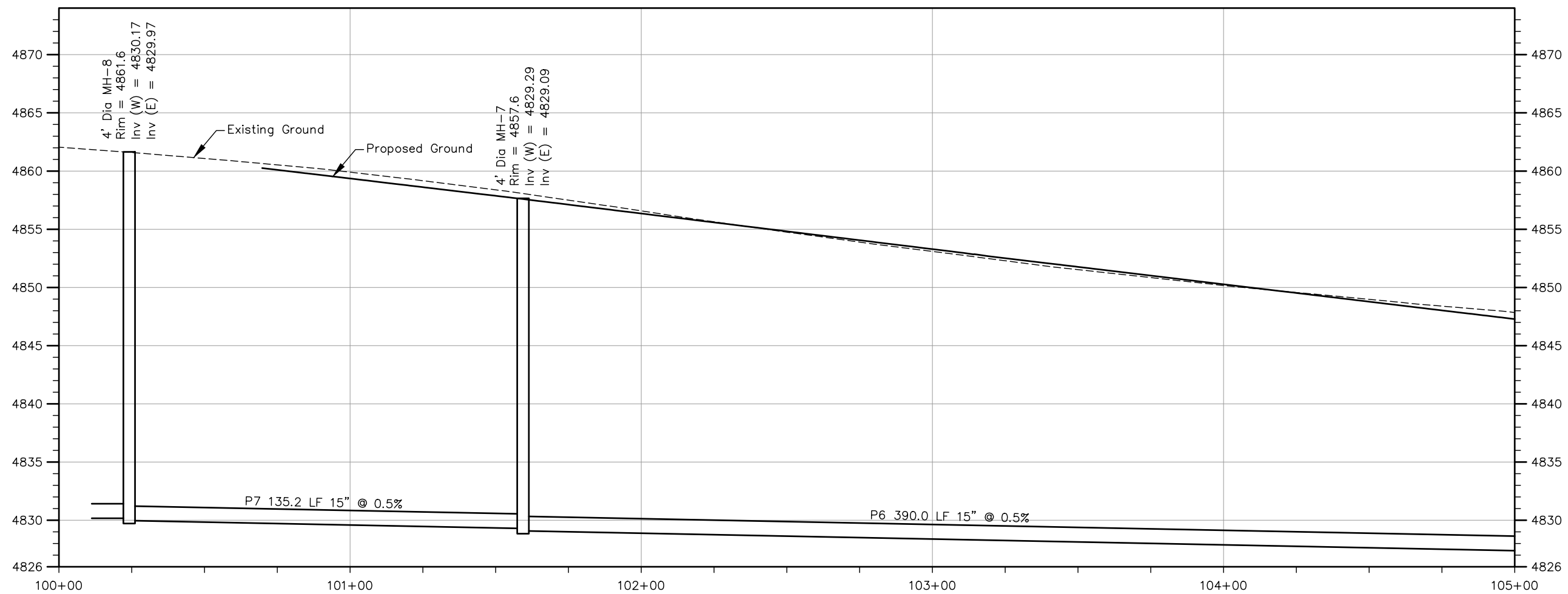
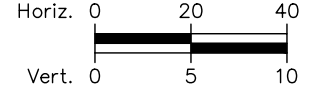
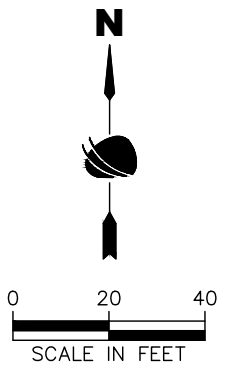
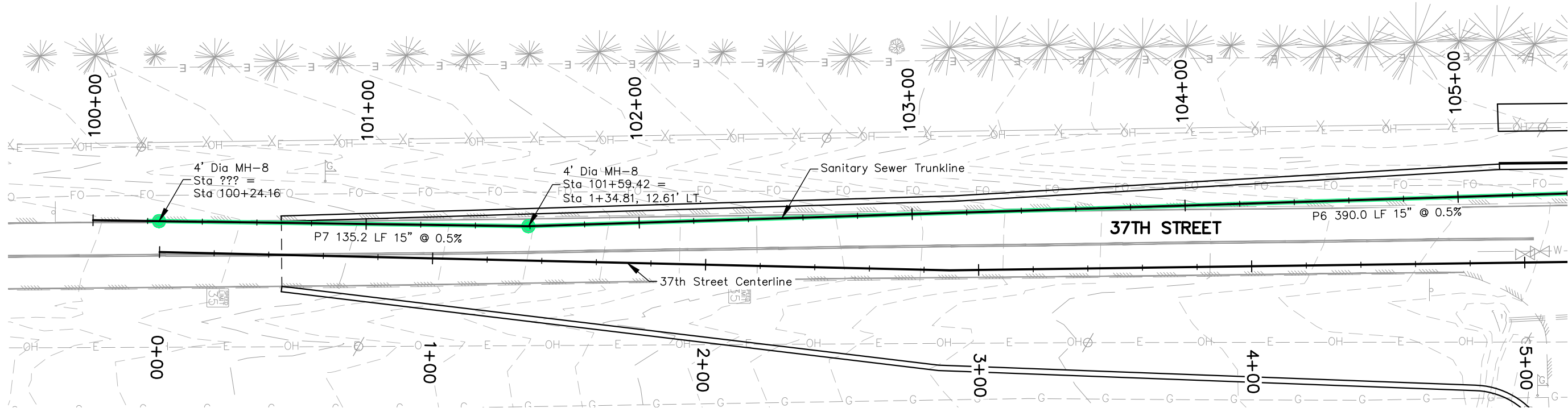
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 STU M415-025

Drawing Number WTR-006

Sheet Number

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Plot Date: 9/17/2025 12:59 PM Plotted By: Sarah Hemler  
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 Horiz. Scale: As Noted Vert. Scale: As Noted

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Sheet Revisions		
Date	Comments	Initials



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No Revisions:
Revised:
Void:

**37TH ST & 65TH AVE INTERSECTION  
 SANITARY SEWER PLAN & PROFILE  
 TRUNKLINE**

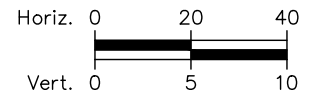
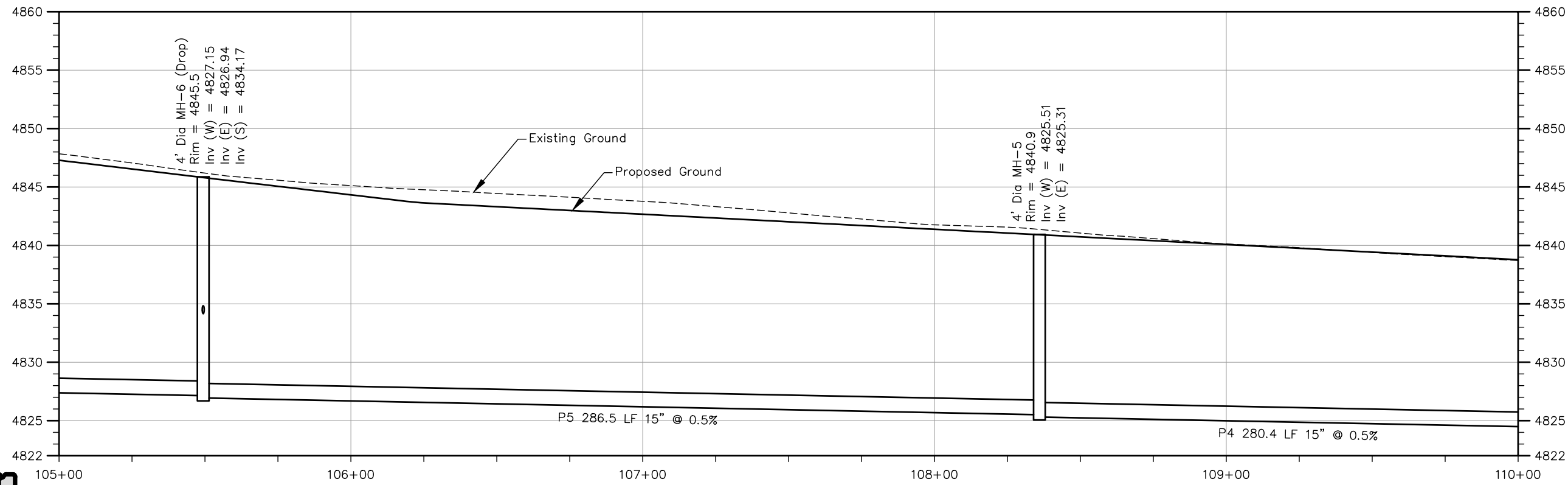
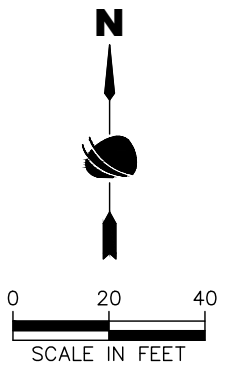
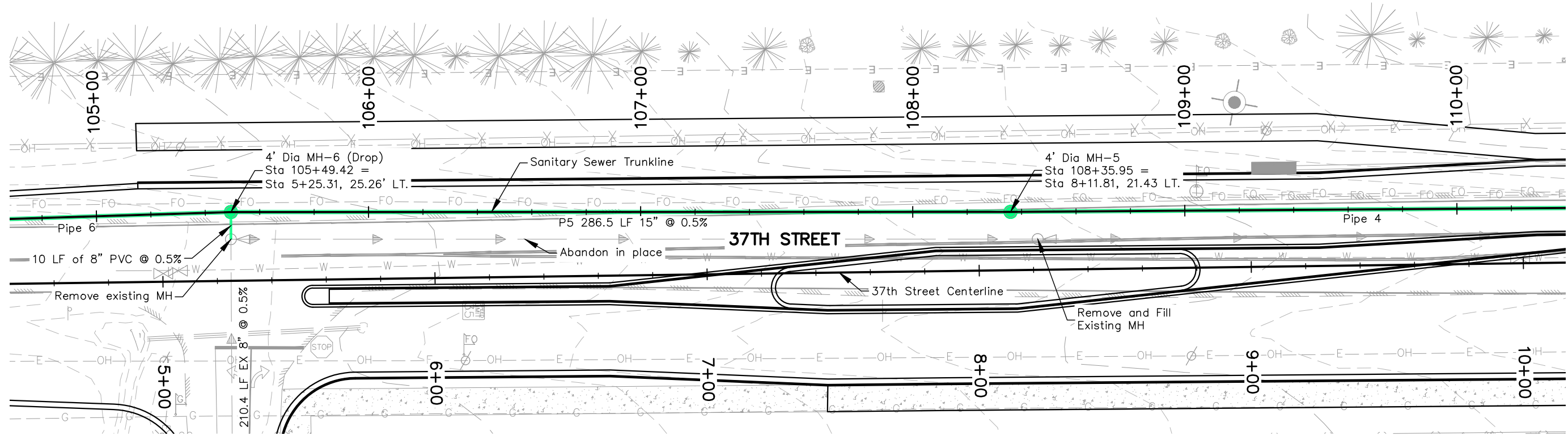
Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	SSWR P&P	Subset Sheets:	1 of 5

**Project No.**  
 STU M415-025

Drawing Number SSWR-001

Sheet Number 56





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Print Date: 9/17/2025  
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 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



**As Constructed**

No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION  
 SANITARY SEWER PLAN & PROFILE  
 TRUNKLINE**

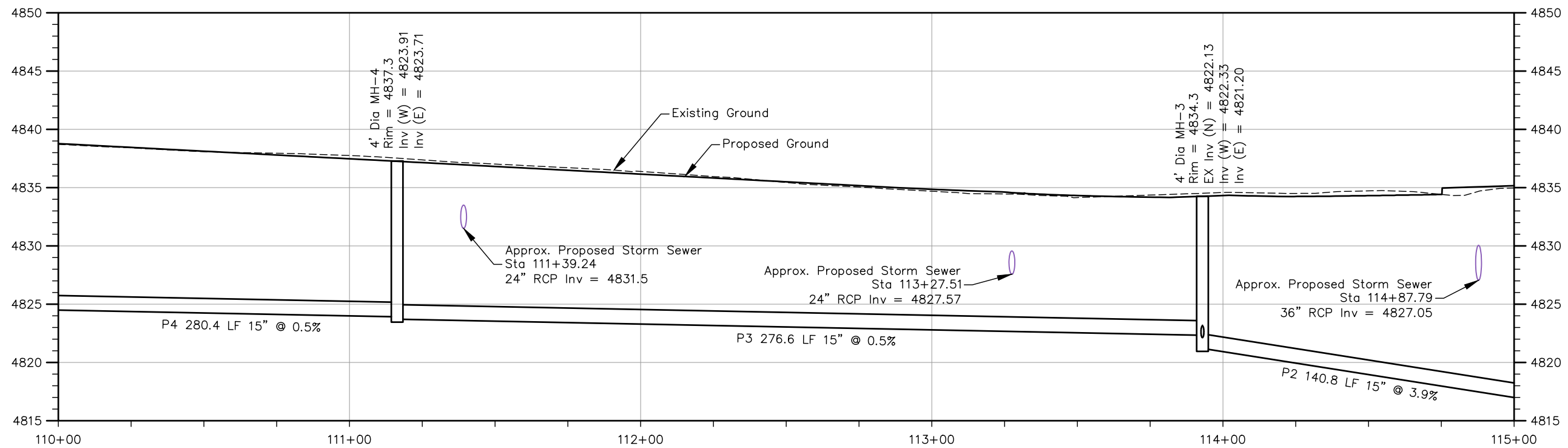
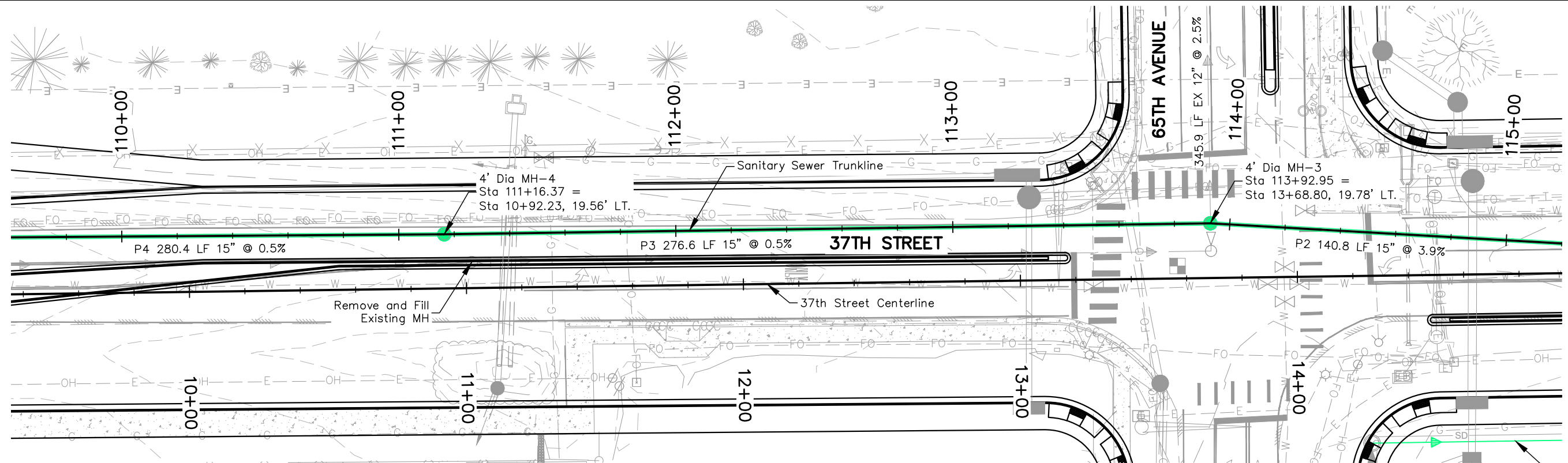
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 Detailer: S. Hemler  
 Sheet Subset: SSWR P&P

Structure Numbers  
 Subset Sheets: 2 of 5

**Project No.**  
 STU M415-025

Drawing Number SSWR-002  
 Sheet Number 57

Plot Date: 9/17/2025 12:59 PM Plotted By: Sarah Hemler  
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Print Date: 9/17/2025  
 File Name: SSWR P3-001 SANITARY SEWER PLAN & PROFILE.DWG  
 Horiz. Scale: As Noted Vert. Scale: As Noted

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Date	Comments	Initials



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 Revised:  
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**37TH ST & 65TH AVE INTERSECTION  
 SANITARY SEWER PLAN & PROFILE  
 TRUNKLINE**

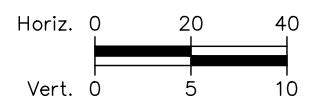
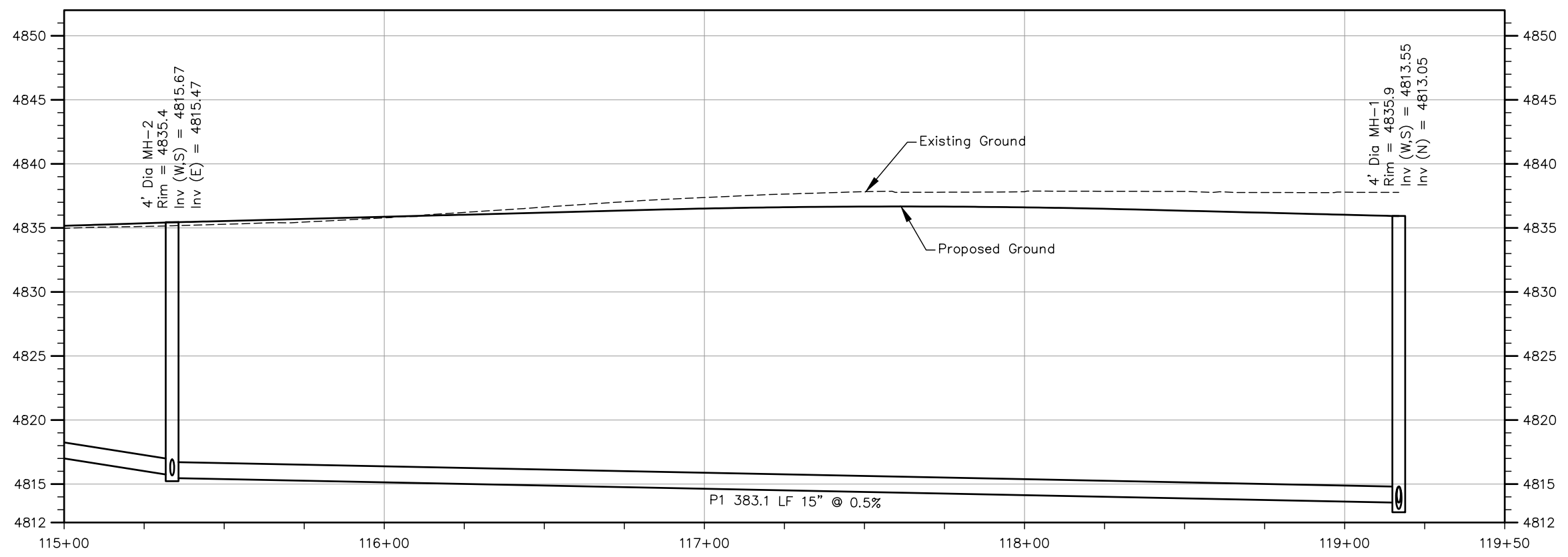
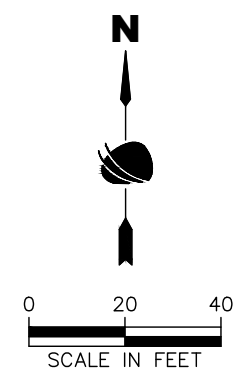
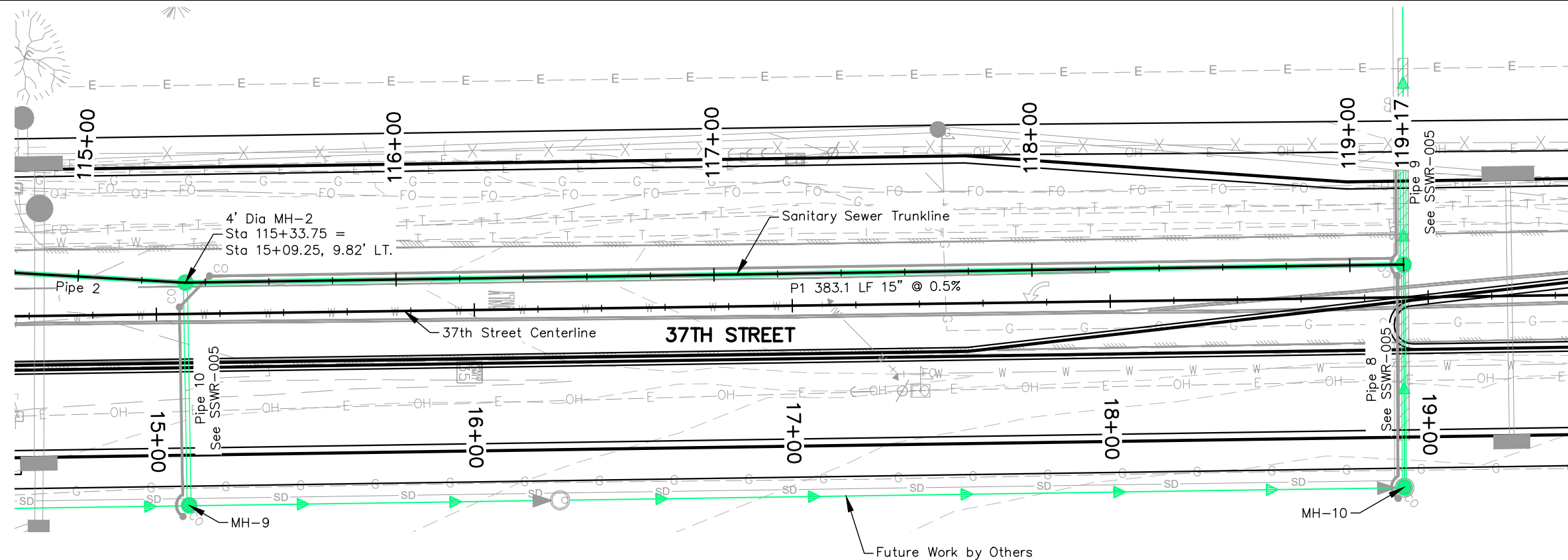
Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SSWR P&P

Structure Numbers:  
 Subset Sheets: 3 of 5

**Project No.**  
 STU M415-025

Drawing Number SSWR-003  
 Sheet Number 58

Plot Date: 9/17/2025 12:59 PM Plotted By: Sarah Hemler  
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Print Date: 9/17/2025  
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 Horiz. Scale: As Noted Vert. Scale: As Noted  

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 Fax: (303) 962-9350

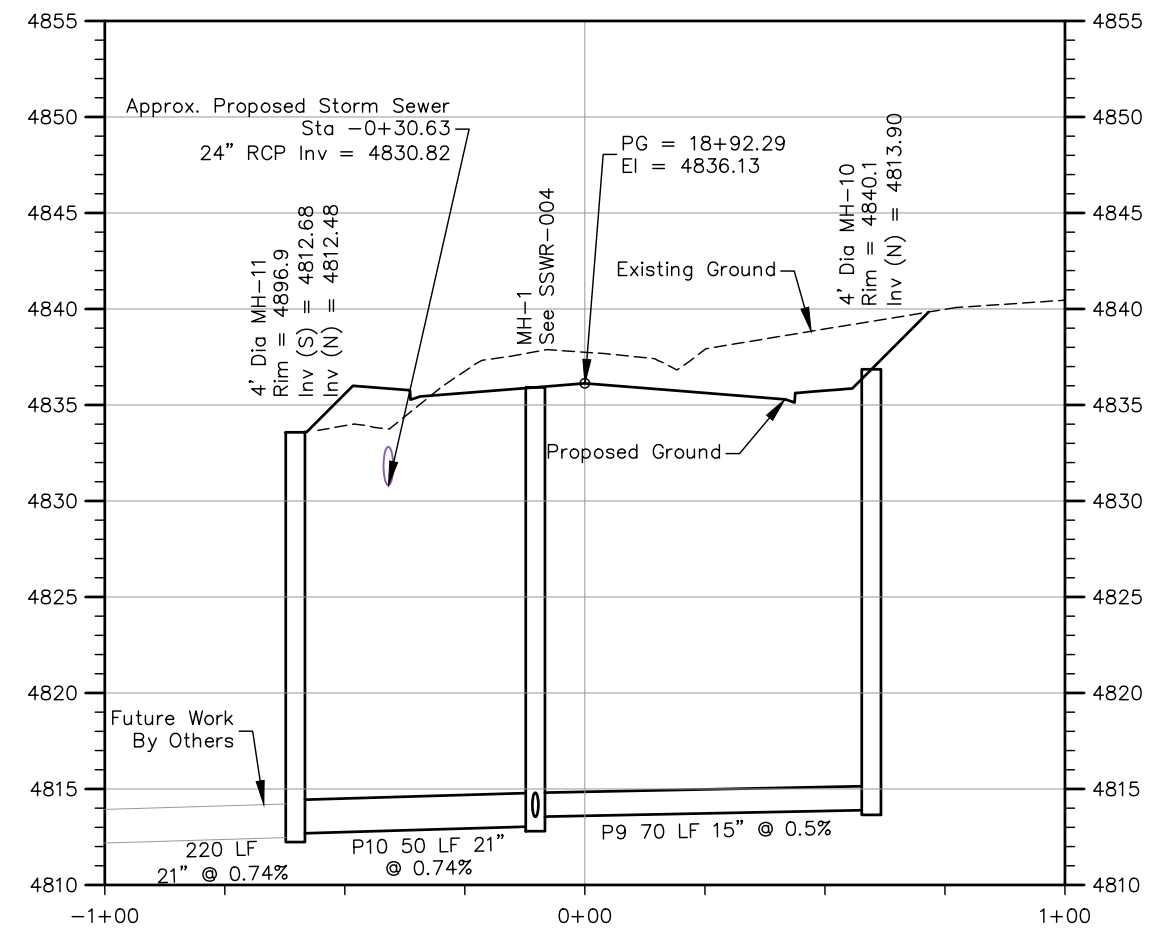
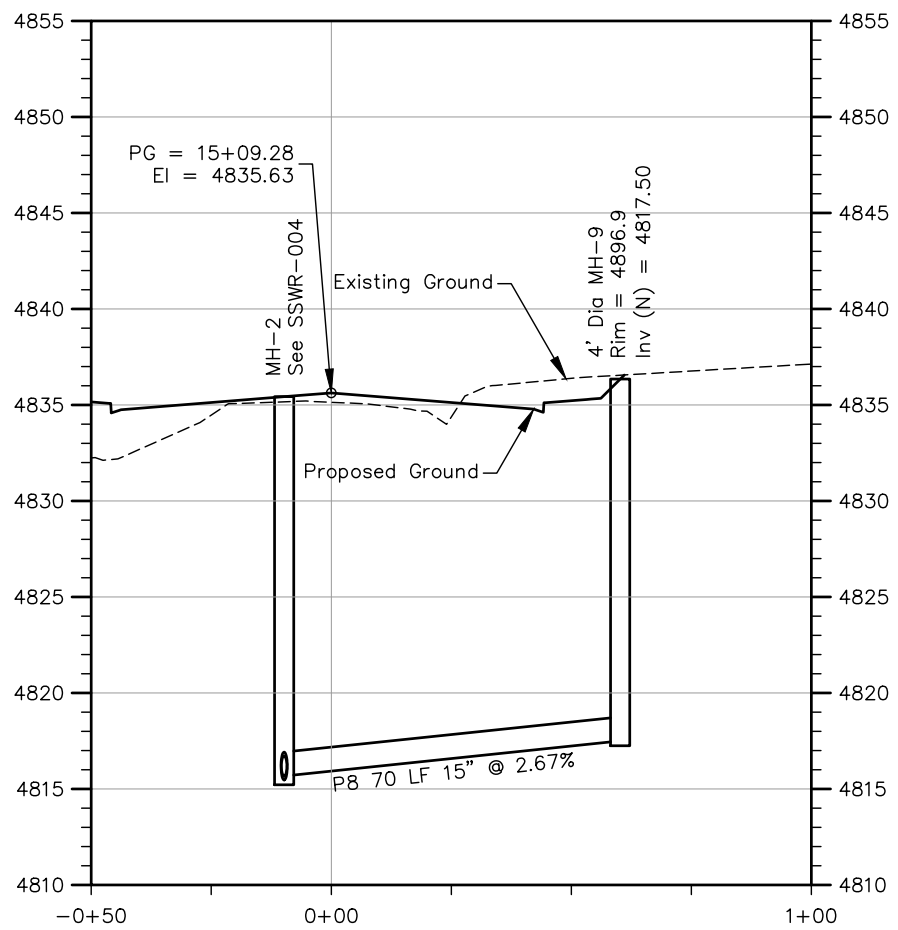
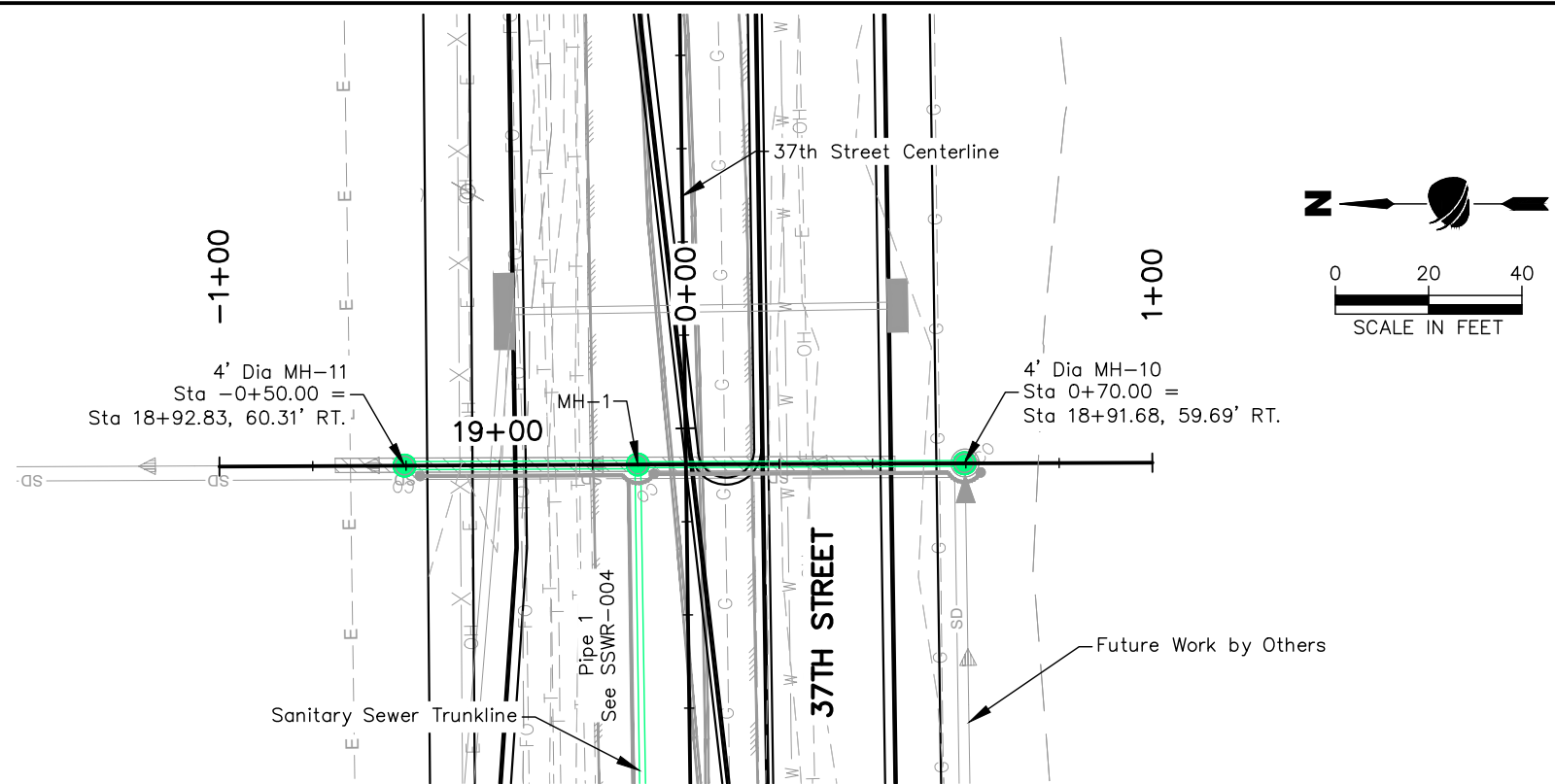
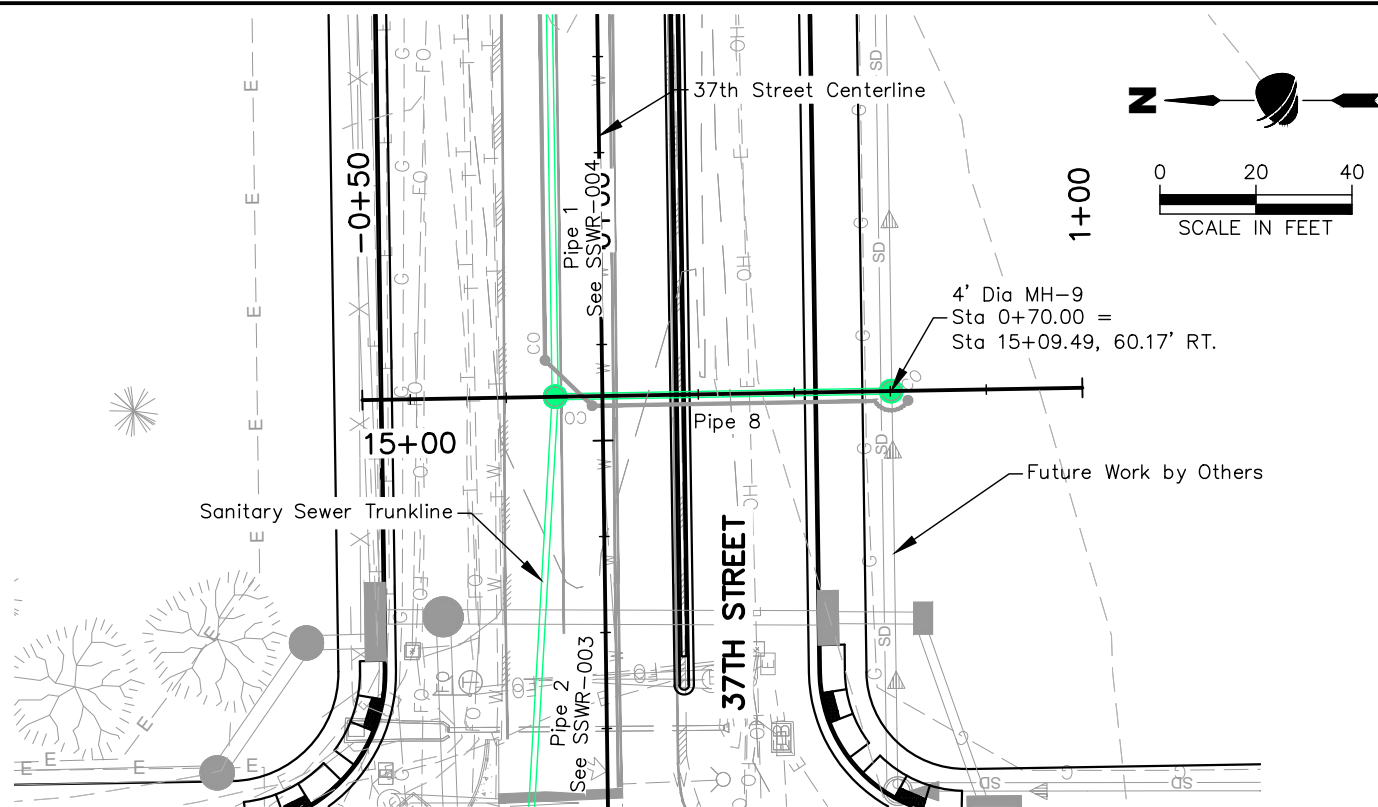
Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
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**37TH ST & 65TH AVE INTERSECTION  
 SANITARY SEWER PLAN & PROFILE  
 TRUNKLINE**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SSWR P&P  
 Structure Numbers:  
 Subset Sheets: 4 of 5

**Project No.**  
 STU M415-025  
 Drawing Number SSWR-004  
 Sheet Number 59



Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
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 Fax: (303) 962-9350

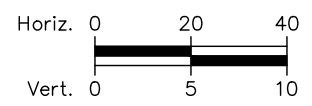
Sheet Revisions		
Date	Comments	Initials



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 Revised:  
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**37TH ST & 65TH AVE INTERSECTION  
 SANITARY SEWER PLAN & PROFILE  
 LATERAL**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SSWR P&P

**Project No.**  
 STU M415-025  
 Drawing Number SSWR-005  
 Sheet Number 60



**PROJECT LIST OF UTILITY CONTACTS**

NO.	COMPANY	ABBREVIATION	UTILITY TYPE	CONTACT NAME	EMAIL	PHONE
1	AT&T	AT&T	Fiber Optic	Dispatch Number		800-252-1133
2	Atmos Energy	ATMOS	Gas	Jerry Adams	jerry.adams@atmosenergy.com	970-304-2075
3	Lumen (CenturyLink)	LUMN	Fiber Optic	USIC		800-778-9140
4	City of Evans	EVANS	Water	Leon Blasco	lblasco@evanscolorado.gov	970-371-9089
5	City of Greeley	GREELEY	Water	Brandon Valenciano	brandon.valenciano@greeleygov.com	970-302-2403
6	DCP Midstream	DCP	Gas	Ivan Ansel	iansel@dcpmidstream.cpm	970-539-1806
7	Level 3 Communications	Level 3	Fiber Optic	Customer Service		877-366-8344
8	Noble Energy Inc.	Noble	Gas	Dispatch Number		970-304-5000
9	Noble Midstream Services / Black Diamond	Noble	Oil and Gas	Dispatch Number		970-304-5000
10	Private Irrigation		Irrigation	Mike Wiedeman		970-371-0533
11	XCEL Energy	XCEL	Overhead and Underground Electric	William Braasch	william.braasch@xcelenergy.com	303-571-7082

**SUBSURFACE UTILITY GENERAL NOTES**

- Utility data depicted on the following sheets is prepared in accordance with ASCE 38.02 and C.R.S. 9-1.5 for a subsurface utility engineering required project.
- Quality level B designation has been completed by Kinetic.
- Storm and sanitary sewer mains and laterals, where shown, meet ASCE quality level C. Service lines are not located.
- It is the Contractor's responsibility to field verify horizontal and vertical locations of all utilities prior to commencing construction. The Contractor must call the Utility Notification Center of Colorado at least 2 business days prior to any excavation to request the exact field locations of utilities.
- The Contractor shall be responsible for protecting all utilities during construction and for coordinating with the appropriate utility company for any utility crossing required. Repair of damaged utilities shall be at the Contractor's expense, including but not limited to unknown underground utilities.

**UTILITY LEGEND**

**QUALITY LEVEL C**

- E---OH--- EXISTING OVERHEAD ELECTRIC
- T---OH--- EXISTING OVERHEAD TELEPHONE
- FO---OH--- EXISTING OVERHEAD FIBER OPTIC

**QUALITY LEVEL B**

- E--- EXISTING ELECTRIC
- FO--- EXISTING FIBER OPTIC
- G--- EXISTING GAS
- IR--- EXISTING IRRIGATION
- T--- EXISTING TELEPHONE
- TV--- EXISTING TELEVISION
- S--- EXISTING SANITARY SEWER
- W--- EXISTING WATER
- D--- EXISTING DRAINAGE DRAIN

- ELECTRIC VAULT
- ELECTRIC BOX
- ELECTRIC TRANSFORMER
- ELECTRIC PEDESTAL
- ELECTRIC METER
- POWER POLE
- GUY WIRE
- LANDSCAPE LIGHT
- LIGHT POLE
- ELECTRIC MARKER

- FIRE HYDRANT
- WATER VALVE
- GATE VALVE
- AIR VALVE
- WATER SHUTOFF
- WATER SERVICE
- WATER METER
- WATER MANHOLE
- WATER MARKER

**SYMBOLOLOGY**

- DRAINAGE MANHOLE
- GAS VALVE
- GAS SERVICE
- GAS METER
- GAS MANHOLE
- GAS MARKER
- IRRIGATION VALVE
- IRRIGATION VALVE BOX
- IRRIGATION MANHOLE
- SPRINKLER
- SANITARY MANHOLE
- CLEAN OUT
- SANITARY SERVICE
- SANITARY MARKER
- FIBER OPTIC VAULT
- FIBER OPTIC MARKER
- TELEPHONE PEDESTAL
- TELEPHONE MANHOLE
- TELEPHONE MARKER
- CABLE TV PEDESTAL
- CABLE TV MARKER



Print Date: 9/17/2025  
 File Name: UTGN P3-001 UTILITY GENERAL NOTES.DWG  
 Horiz. Scale: N/A Vert. Scale: N/A  
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 Ph: (303) 962-9300  
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



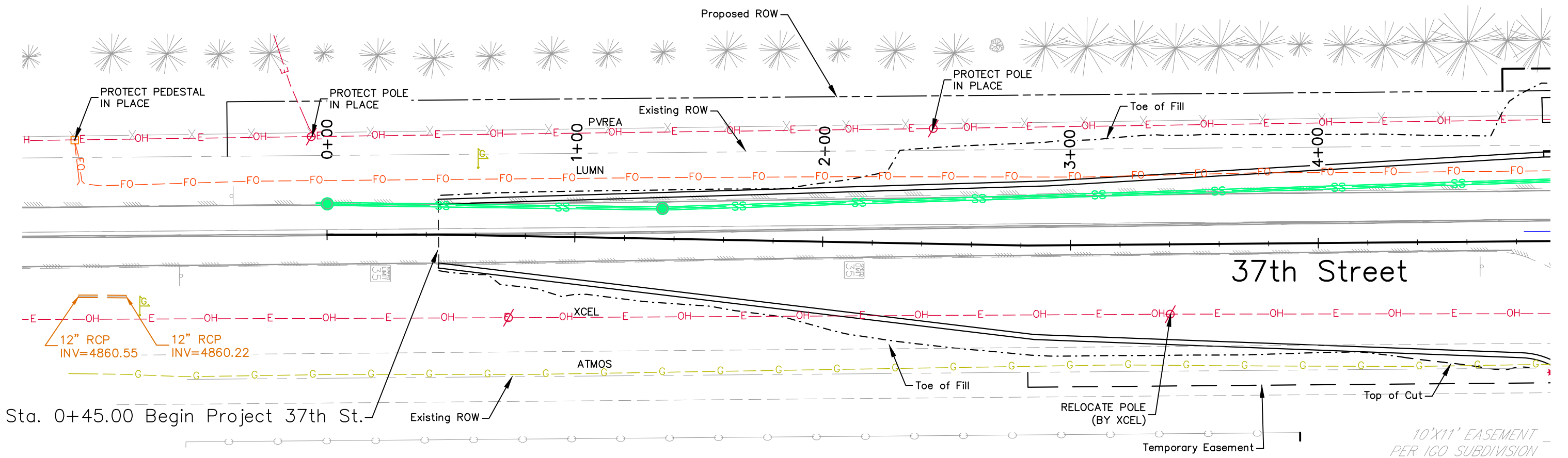
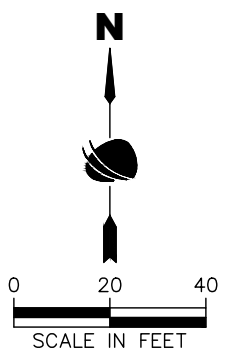
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 No Revisions:  
 Revised:  
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**37TH ST & 65TH AVE INTERSECTION  
 UTILITY GENERAL NOTES**  
 Designer: R. Parks  
 Detailer: A. Koehler  
 Sheet Subset: UTIL GEN  
 Structure Numbers  
 Subset Sheets: 1 of 1

**Project No.**  
 STU M415-025  
 Drawing Number UTGN-001  
 Sheet Number 61

Plotted: 9/17/2025 1:05 PM Plotted By: Sarah Henkle  
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Sta. 0+45.00 Begin Project 37th St.

37th Street

10'X11' EASEMENT  
PER IGO SUBDIVISION

Plot Date: 9/17/2025 1:01 PM Plotted By: Sarah Hemler  
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Sheet Revisions		
Date	Comments	Initials



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**37TH ST & 65TH AVE INTERSECTION  
 UTILITY PLANS**

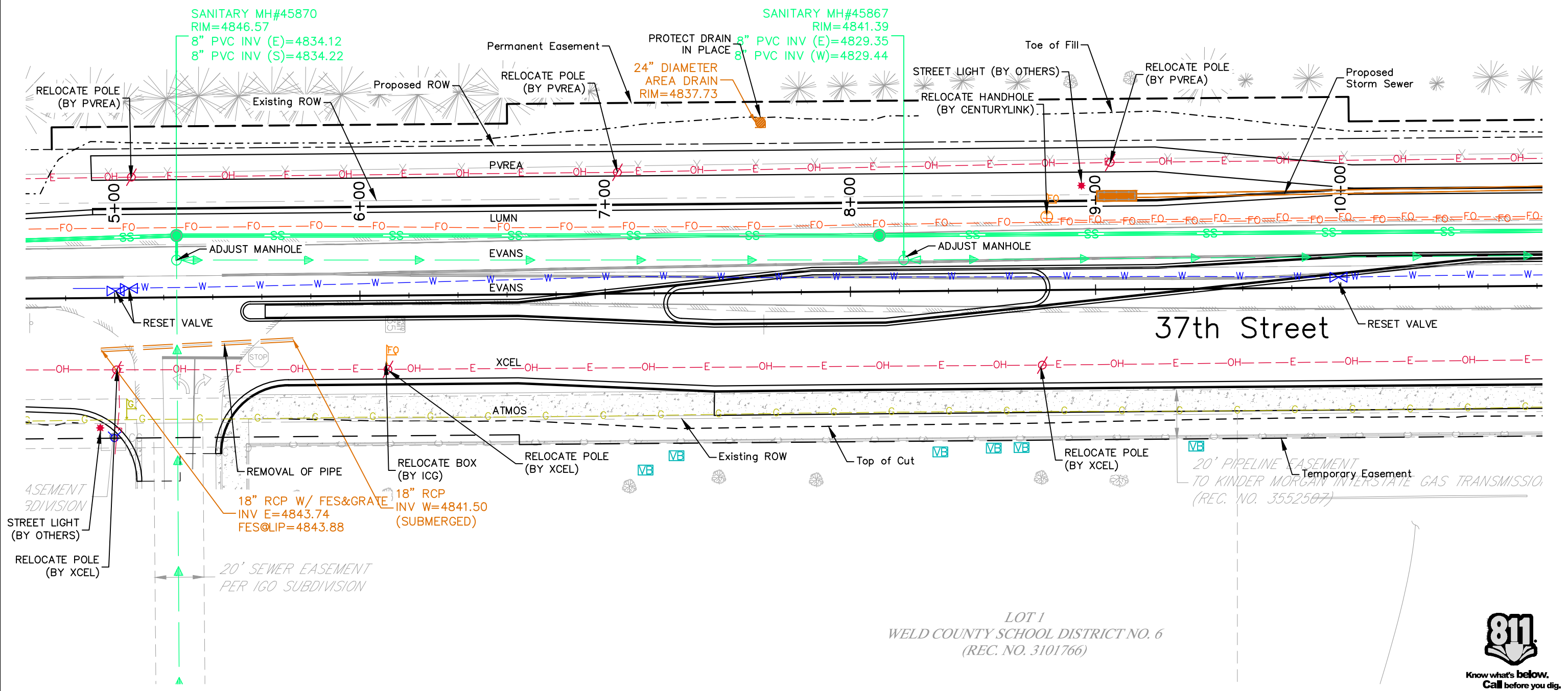
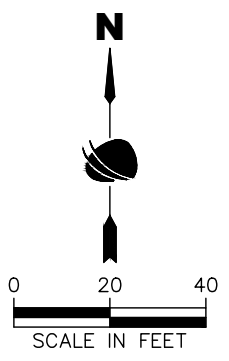
Designer: R. Parks  
 Detailer: A. Koehler  
 Sheet Subset: UTILITIES

Structure Numbers  
 Subset Sheets: 1 of 10

**Project No.**  
 STU M415-025

Drawing Number UTIL-001  
 Sheet Number 62

All seals for this set of drawings are applied to the cover page(s)



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LOT 1  
WELD COUNTY SCHOOL DISTRICT NO. 6  
(REC. NO. 3101766)



Plot Date: 9/17/2025 1:01 PM Plotted By: Sarah Hemler File Path: C:\Users\SAH\OneDrive\Documents\37TH ST AND 65TH AVE INTERSECTION DESIGN\00\_COMPUTER DESIGN FILES\02\_SHEET FILES\UTIL\_P3-001 UTILITY PLAN.DWG

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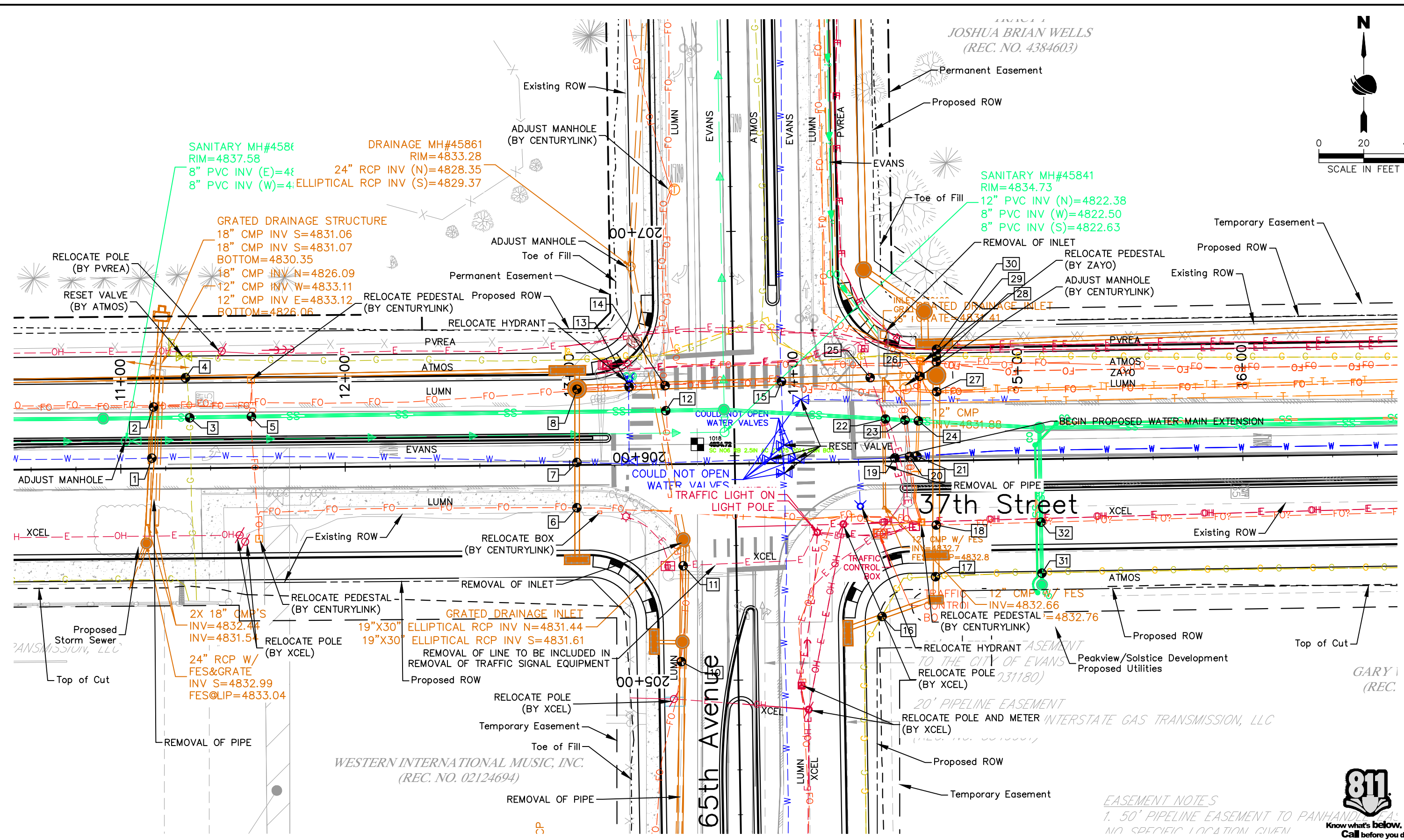
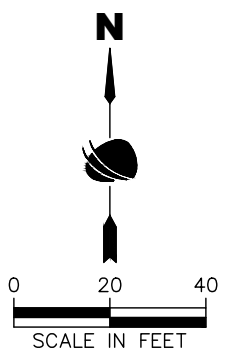
Sheet Revisions		
Date	Comments	Initials



<b>As Constructed</b>	No Revisions:
Revised:	
Void:	

<b>37TH ST &amp; 65TH AVE INTERSECTION UTILITY PLANS</b>		
Designer:	R. Parks	Structure Numbers
Detailer:	A. Koehler	
Sheet Subset:	UTILITIES	Subset Sheets: 2 of 10

<b>Project No.</b>	STU M415-025
Drawing Number	UTIL-002
Sheet Number	63



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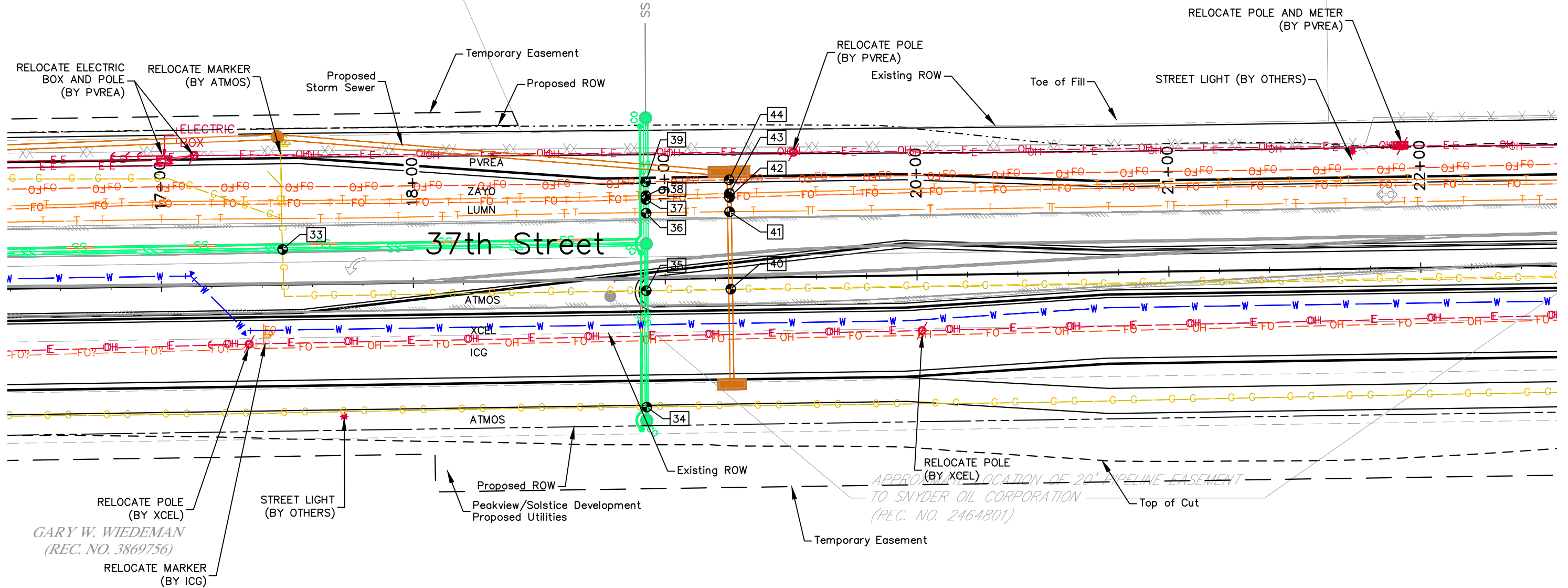
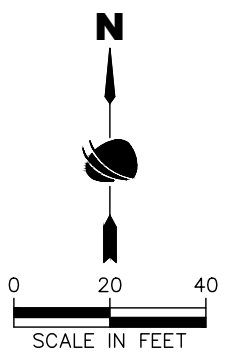
90% DRAFT PLANS



**EASEMENT NOTES**  
 1. 50' PIPELINE EASEMENT TO PANHANDLE GAS  
 NO SPECIFIC LOCATION GIVEN

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	Date	Comments	Initials															
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350		No Revisions: Revised: Void:	Designer: R. Parks Detailer: A. Koehler Sheet Subset: UTILITIES Structure Numbers: Subset Sheets: 3 of 10	<b>Project No.</b> STU M415-025 Drawing Number UTIL-003 Sheet Number 64														
		No Revisions: Revised: Void:	Designer: R. Parks Detailer: A. Koehler Sheet Subset: UTILITIES Structure Numbers: Subset Sheets: 3 of 10	<b>Project No.</b> STU M415-025 Drawing Number UTIL-003 Sheet Number 64														

TRACT 2  
CITY OF EVANS  
(REC. NO. 3615971)



GARY W. WIEDEMAN  
(REC. NO. 3869756)  
RELOCATE MARKER  
(BY ICG)

HANDLE EASTERN PIPE LINE COMPANY

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Sheet Revisions		
Date	Comments	Initials

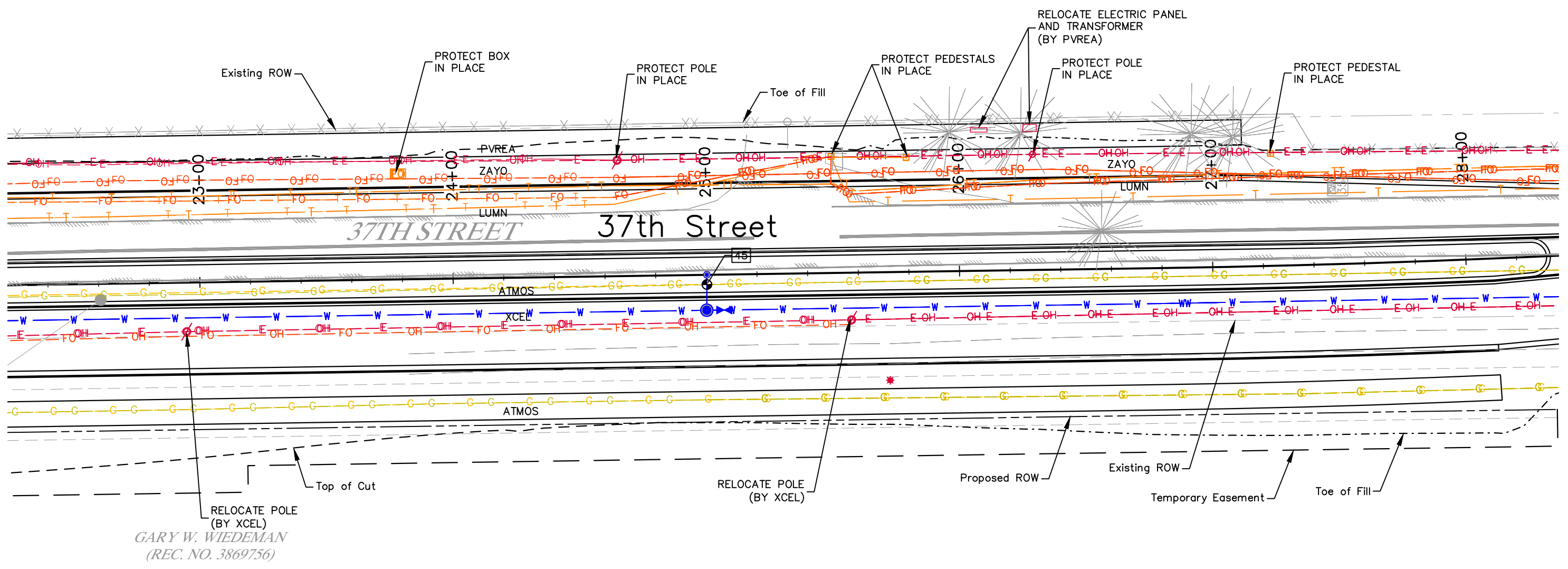
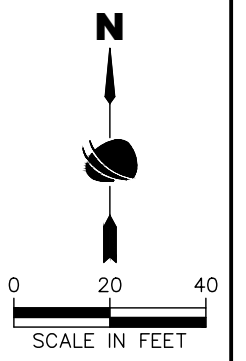


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<b>37TH ST &amp; 65TH AVE INTERSECTION UTILITY PLANS</b>		
Designer: R. Parks	Structure Numbers	Sheet Subset: UTILITIES Subset Sheets: 4 of 10
Detailer: A. Koehler		

<b>Project No.</b>
STU M415-025
Drawing Number UTIL-004
Sheet Number 65

TRACT 3  
 JOSHUA BRIAN WELLS  
 (REC. NO. 4384603)



GARY W. WIEDEMAN  
 (REC. NO. 3869756)

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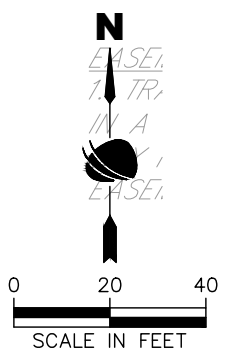
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Date	Comments	Initials



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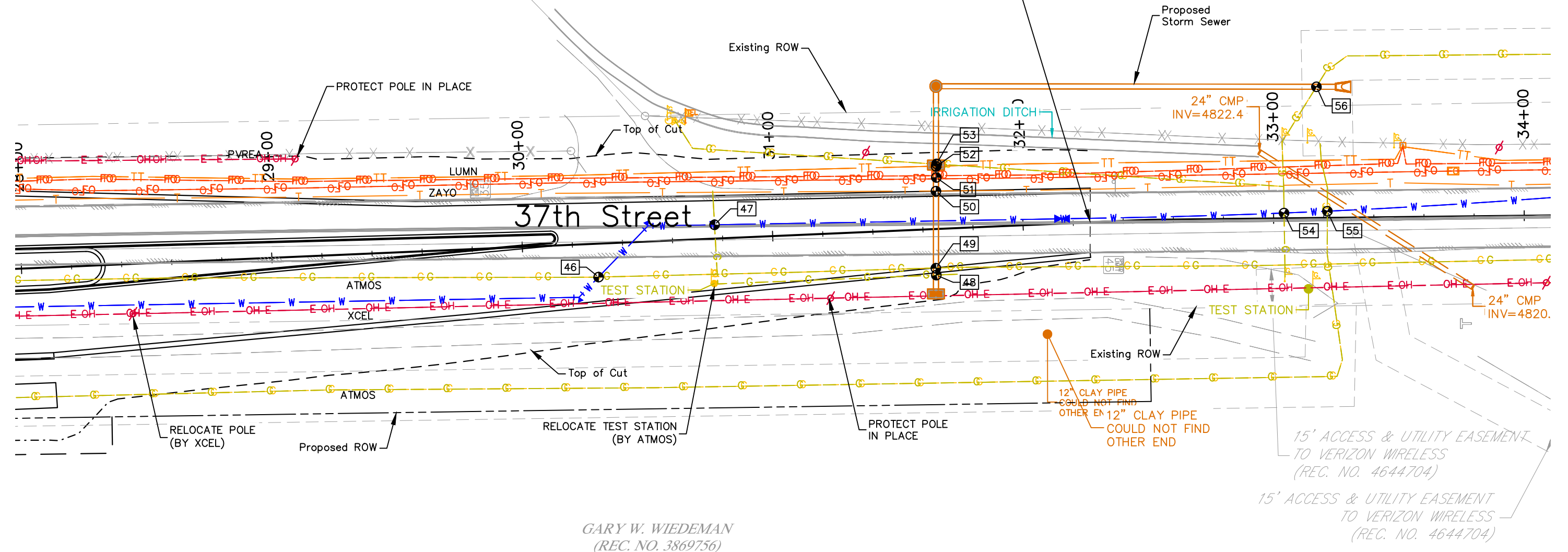
37TH ST & 65TH AVE INTERSECTION UTILITY PLANS			
Designer:	R. Parks	Structure Numbers	
Detailer:	A. Koehler		
Sheet Subset:	UTILITIES	Subset Sheets:	5 of 10

<b>Project No.</b>
STU M415-025
Drawing Number UTIL-005
Sheet Number 66



TRACT 4  
CITY OF EVANS  
(REC. NO. 3615971)

Sta. 32+26.00 End Project 37th St.



GARY W. WIEDEMAN  
(REC. NO. 3869756)

15' ACCESS & UTILITY EASEMENT  
TO VERIZON WIRELESS  
(REC. NO. 4644704)

15' ACCESS & UTILITY EASEMENT  
TO VERIZON WIRELESS  
(REC. NO. 4644704)

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Date	Comments	Initials



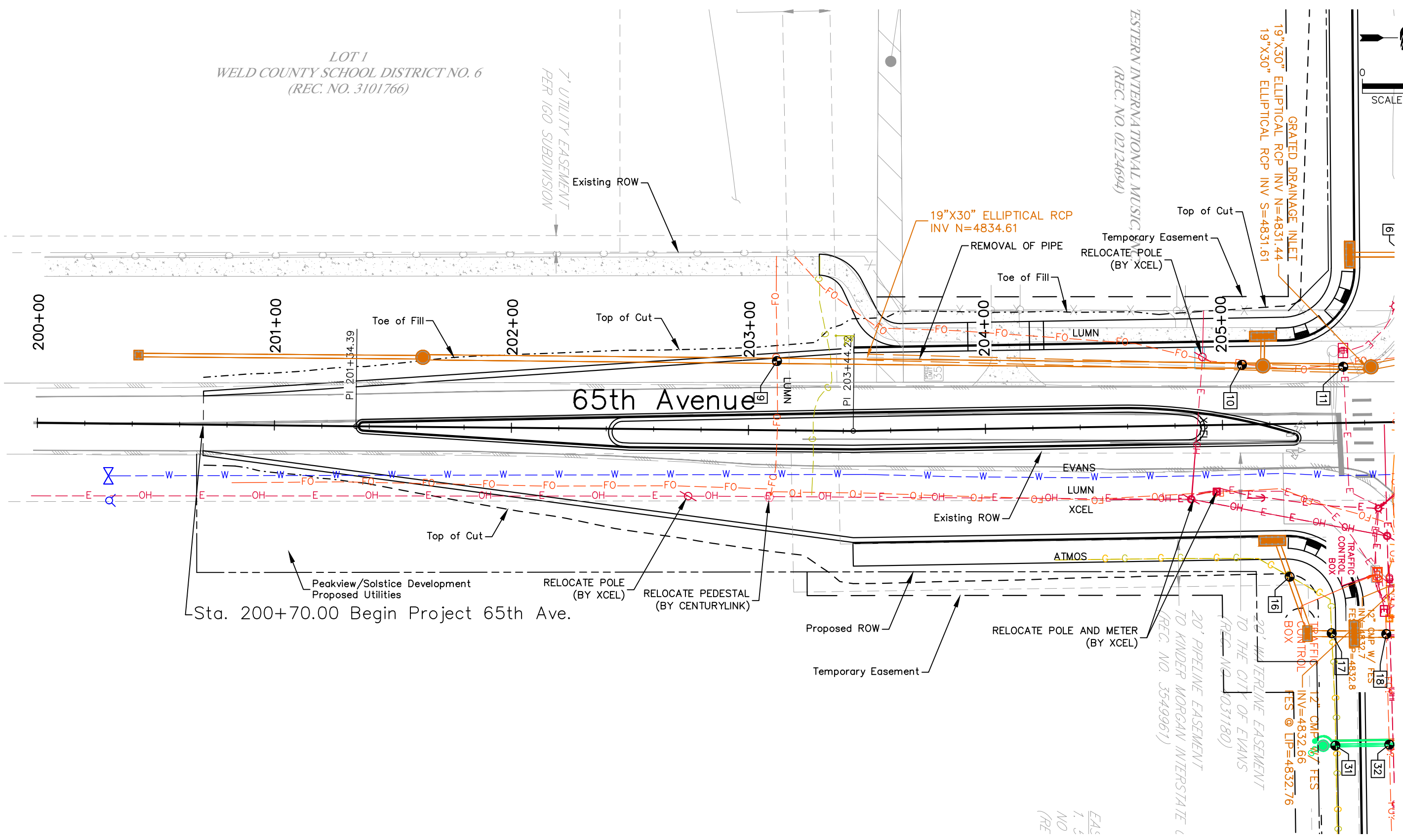
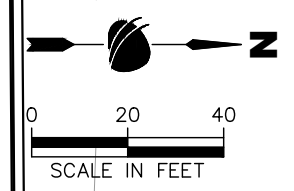
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<b>37TH ST &amp; 65TH AVE INTERSECTION UTILITY PLANS</b>		
Designer: R. Parks	Structure Numbers	
Detailer: A. Koehler		
Sheet Subset: UTILITIES	Subset Sheets: 6 of 10	

<b>Project No.</b>
STU M415-025
Drawing Number UTIL-006
Sheet Number 67

LOT 1  
WELD COUNTY SCHOOL DISTRICT NO. 6  
(REC. NO. 3101766)

EASTERN INTERNATIONAL MUSIC  
(REC. NO. 02124694)



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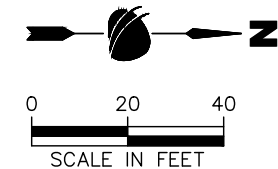
**37TH ST & 65TH AVE INTERSECTION  
 UTILITY PLANS**

Designer: R. Parks  
 Detailer: A. Koehler  
 Sheet Subset: UTILITIES

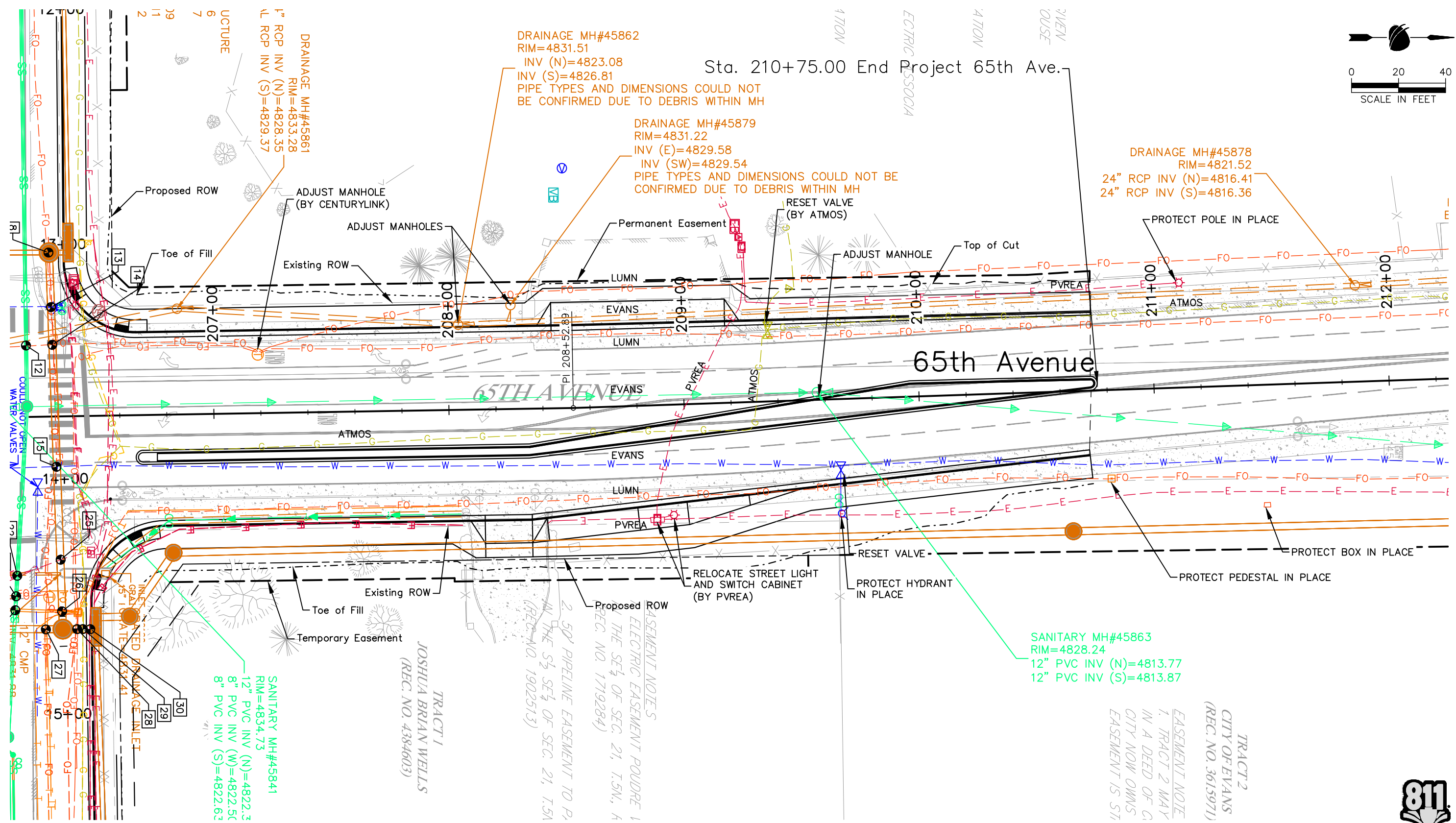
Structure Numbers  
 Subset Sheets: 9 of 10

**Project No.**  
 STU M415-025

Drawing Number UTIL-007  
 Sheet Number 68



Sta. 210+75.00 End Project 65th Ave.



DRAINAGE MH#45862  
RIM=4831.51  
INV (N)=4823.08  
INV (S)=4826.81  
PIPE TYPES AND DIMENSIONS COULD NOT BE CONFIRMED DUE TO DEBRIS WITHIN MH

DRAINAGE MH#45879  
RIM=4831.22  
INV (E)=4829.58  
INV (SW)=4829.54  
PIPE TYPES AND DIMENSIONS COULD NOT BE CONFIRMED DUE TO DEBRIS WITHIN MH

DRAINAGE MH#45878  
RIM=4821.52  
24" RCP INV (N)=4816.41  
24" RCP INV (S)=4816.36

DRAINAGE MH#45861  
RIM=4833.28  
1" RCP INV (N)=4828.35  
1" RCP INV (S)=4829.37

SANITARY MH#45863  
RIM=4828.24  
12" PVC INV (N)=4813.77  
12" PVC INV (S)=4813.87

SANITARY MH#45841  
RIM=4834.73  
12" PVC INV (N)=4822.3  
8" PVC INV (W)=4822.5  
8" PVC INV (S)=4822.6

TRACT 1  
JOSHUA BRIAN WELLS  
(REC. NO. 4384603)

EASEMENT NOTES  
ELECTRIC EASEMENT POWDRE 1  
IN THE SE 1/4 OF SEC. 21, T.5N, R  
(REC. NO. 1719284)  
2. 50' PIPELINE EASEMENT TO P,  
IN THE S 1/2 OF SEC. 21, T.5N, R  
(REC. NO. 1902513)

TRACT 2  
CITY OF EVANS  
(REC. NO. 3615971)  
EASEMENT NOTE  
1. TRACT 2 MAY  
IN A DEED OF G,  
CITY NOW OWNS  
EASEMENT IS STI

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37TH ST & 65TH AVE INTERSECTION UTILITY PLANS		
Designer:	R. Parks	Structure Numbers
Detailer:	A. Koehler	
Sheet Subset:	UTILITIES	Subset Sheets: 10 of 10

<b>Project No.</b>	STU M415-025
Drawing Number	UTIL-008
Sheet Number	69

**STORMWATER MANAGEMENT PLANS**

**1. SITE DESCRIPTION**

The Contractor shall comply with all contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

**A. PROJECT SITE LOCATION:**

Location or address of construction office: \_\_\_\_\_  
 The project is located in Evans, Weld County, Colorado at the intersection of 37<sup>th</sup> Street and 65<sup>th</sup> Avenue. The project extends along 37<sup>th</sup> Street approximately 1,350 feet west of the intersection and 1,850 feet east of the intersection. Along 65<sup>th</sup> Avenue, the project extends approximately 520 feet south of the intersection and 475 feet north of the intersection.

**B. PROJECT SITE DESCRIPTION:**

This safety improvements project at the intersection of 37<sup>th</sup> Street and 65<sup>th</sup> Avenue will add turn lanes and install a new traffic signal. Project elements include drainage improvements, utilities relocations, paving, sidewalk improvements, medians, signing, striping, and landscaping.

**C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:**

Stabilize all areas that are not paved or landscaped through establishment of vegetation cover. The project will include the following sequence of actions: install initial control measures, clear and grub, removal of asphalt, removal of existing drainage elements, removal/relocation of existing utilities, install new drainage elements, grading, remove and install new traffic signal, roadway paving, install raised medians, sidewalk paving, installation of signs, striping, and final stabilization.

**D. ACRES OF DISTURBANCE:**

- 1. Total area of construction site (LOC (PERMITTED AREA)): [XXX] acres
- 2. Total area of proposed disturbance (LDA): [XXX] acres
- 3. Total area of seeding: [XXX] acres
- 4. Total area of pre-project impervious surface: [XXX] sq. ft.
- 5. Total area of final impervious surface: [XXX] sq. ft.

**E. EXISTING SOIL DATA:**

Soils present within the project include Nelson fine sandy loam, Olney fine sandy loam, Otero sandy loam, Valent sand, and Vona Sand. Nelson fine sandy loam has a medium level of erodibility and is well drained. Olney fine sandy loam, Otero sandy loam, Valent sand, and Vona sand have low erodibility and are well drained. Sand has  
 Data Source(s): May 16, 2023

**F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:**

The SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit. Vegetation Transect instruction is located on CDOT Landscape Architecture website. <https://www.codot.gov/programs/environmental/landscape-architecture/swmp/vegetative-transect-procedure.pdf>  
 SWMP Administrator for Construction is to conduct a survey including general description of existing vegetation prior to any ground disturbance on the project. The SWMP Administrator shall photo-document existing vegetation where all work will be occurring.

The SWMP Administrator shall perform the vegetation survey transect(s), fill in the below information, and include photo documentation.

Pre-Construction Date of survey: \_\_\_\_\_ Percent Existing Vegetative Cover: \_\_\_\_\_  
 Description of existing vegetation: \_\_\_\_\_

Method for determining percent vegetative cover: CDOT Vegetative Transect Procedure  
 Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:  
 \_\_\_\_\_

Post-Construction Date of survey: \_\_\_\_\_ Percent Vegetative Cover: \_\_\_\_\_  
 Description of vegetation: \_\_\_\_\_  
 The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.  
 Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

**G. POTENTIAL POLLUTANTS SOURCES:**

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

**H. DRAINAGE PATTERNS AND RECEIVING WATER(S):**

- 1. Description of drainage patterns from the Site: The water throughout the project area generally flows from the west to the east.
- 2. Names of immediate and ultimate receiving water(s) on site:  
 There are no receiving waters present on-site. The immediate receiving waters are an unnamed ditch that crosses 37<sup>th</sup> Street, east of the construction limits and Ashcroft Draw. Both of these empty into Arrowhead Reservoir. Ashcroft Draw continues from Arrowhead Reservoir and connects to the ultimate receiving water, the South Platte River.
- 3. Description of all stream crossings located within the Construction Site Boundary: There are no stream crossings within the construction boundary.

**I. ALLOWABLE NON-STORMWATER DISCHARGES:**

The SWMP Administrator for Construction shall identify the locations of any anticipated sources of allowable non-stormwater components of the discharge, including those under a separate permit or a Division low risk discharge guidance policy, such as uncontaminated springs and landscape irrigation return flow. The SWMP Administrator for Construction shall provide a method statement of how discharge will be handled and applicable control measures installed. See SWMP Sections 11 and 13B in the SWMP.

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure)#		
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

**J. DIVERSION CRITERIA:**

- 1. Is a diversion planned for the Site? No.

**K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:**

[If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map.  
 Alternative temporary stabilization schedules must be approved by CDOT prior to implementation]

**2. SITE MAP COMPONENTS:**

**A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:**

See SWMP Site Maps

**B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION:**

See SWMP Site Maps



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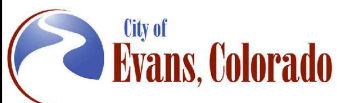
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<b>37TH ST &amp; 65TH AVE INTERSECTION SWMP NARRATIVE</b>		
Designer: L. Gentile	Structure Numbers	
Detailer: L. Gentile		
Sheet Subset: ENVI	Subset Sheets: 1 of 7	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-001
Sheet Number 70

C. ALL AREAS OF GROUND SURFACE DISTURBANCE:

See SWMP Site Maps

D. AREAS OF CUT AND FILL:

See SWMP Site Maps

E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:

See SWMP Site Maps

F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP:

See SWMP Site Maps

G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:

See SWMP Site Maps

H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER:

See SWMP Site Maps

I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:

None

J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES:

See SWMP Site Maps

3. **QUALIFIED STORMWATER MANAGERS:**

A. SWMP ADMINISTRATOR FOR DESIGN:

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information	Certification #
Lauren Gentile/ Environmental Manager	gentile@rocksol.com	33D95D1A

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Start Date	Engineer Approval

C. EROSION CONTROL INSPECTOR: (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval

D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either an Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]

4. **STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES:

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

B. OFFSITE DRAINAGE (RUN ON WATER):

Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. VEHICLE TRACKING CONTROL:

Control measures shall be implemented in accordance with subsection 208.04.

D. PERIMETER CONTROL:

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

5. **DURING CONSTRUCTION**

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN: Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

B. OTHER CDPS PERMITS: List applicable CDPS permits associated with the permitted site and activities.

C. STOCKPILE MANAGEMENT: Shall be done in accordance with subsections 107.25 and 208.07.

D. CONCRETE WASHOUT: Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.



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<b>37TH ST &amp; 65TH AVE INTERSECTION SWMP NARRATIVE</b>	
Designer: L. Gentile	Structure Numbers
Detailer: L. Gentile	
Sheet Subset: ENVI	Subset Sheets: 2 of 7

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-002
Sheet Number 71

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**11. NARRATIVES**

**Control Measure Matrixes During Construction:**

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

**STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			B or X	X	
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.			B or X	X	
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208		X	X	
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		B or X	X	X
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208		B or X		
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208		B or X	X	X
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208		B or X	X	X
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208			X	
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		B or X	X	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208		X	X	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208		X	X	
TEMPORARY SLOPE DRAIN OUTLET PROTECTION	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208			X	X
Riprap, or approved other	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12			X	X



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Sheet Revisions		
Date	Comments	Initials



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<b>37TH ST &amp; 65TH AVE INTERSECTION SWMP NARRATIVE</b>		
Designer: L. Gentile	Structure Numbers	
Detailer: L. Gentile		
Sheet Subset: ENVI	Subset Sheets: 4 of 7	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-004
Sheet Number 73

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APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
CONCRETE WASHOUT <i>In-ground or fabricated</i>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208		X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208		B or X	X	
Engineered SEDIMENT BASIN	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible			X	X	
DEWATERING <i>(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)</i>	Shall be done in such a manner to prevent potential pollutants from entering state waters.			X	X	
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.			X	X	
CLEAN WATER DIVERSION	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.			X	X	
OTHER						



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Sheet Revisions		
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<b>37TH ST &amp; 65TH AVE INTERSECTION SWMP NARRATIVE</b>	
Designer: L. Gentile	Structure Numbers
Detailer: L. Gentile	Subset Sheets: 5 of 7
Sheet Subset: ENVI	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-005
Sheet Number 74

90% DRAFT PLANS

**NON-STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

**\* Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.			X	X	X
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208		X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.				X	
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				X	X
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216			X	X
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				X
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
OTHER						

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Sheet Revisions		
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<b>37TH ST &amp; 65TH AVE INTERSECTION SWMP NARRATIVE</b>		
Designer: L. Gentile	Structure Numbers	
Detailer: L. Gentile		
Sheet Subset: ENVI	Subset Sheets: 6 of 7	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-006
Sheet Number 75

**12. TABULATION OF STORMWATER QUANTITIES**

A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	207-00700	Topsoil (Onsite)	CY			TBD	
	208-00002	Erosion Log Type 1 (12 inch)	LF	10000	5000		15000
	208-00020	Silt Fence	LF	2000	1000		3000
	208-00035	Aggregate Bag	LF	300	300		600
	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each	4			4
	208-00075	Pre-fabricated Vehicle Tracking Pad	Each	4			4
	208-00103	Removal and Disposal of Sediment (Labor)	Hour		200		200
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour		200		200
	208-00106	Sweeping (Sediment Removal)	Hour		200		200
	208-00107	Removal of Trash	Hour		20		20
	208-00207	Erosion Control Management (ECM)	Day				
	212-00700	Organic Fertilizer	Pounds			TBD	
	212-00701	Compost (Mechanically Applied)-	CY			TBD	
	212-00702	Biotic Soil Amendments (Hydraulic Applied)	Pounds			TBD	
	212-00703	Humate	Pounds			TBD	
	212-00706	Seeding (Native) Drill	Acre			TBD	
	212-00708	Seeding (Native) Broadcast	Acre			TBD	
	213-00003	Mulching (Weed Free)	Acre			TBD	
	213-00012	Spray-on Mulch Blanket	Acre			TBD	
	213-00061	Mulch Tackifier	LB		TBD	TBD	
	213-00150	Bonded Fiber Matrix	Acre		4		4
	217-00020	Herbicide Treatment	Hour	20	20		40
	610-00050	Median Cover Material (Stone)	Ton				
	607-11525	Fence (Plastic)	LF		500		
X	700-70380	F/A Erosion Control	FA				

\*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

\*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

\*\*\* F/A refers to CDOT's Force Account Pay Items.

**13. BIOLOGICAL IMPACTS and DEWATERING**

A. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: NO
2. Stream Impacts: NO
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.

B. DEWATERING:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):

<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

**14. NOTES**

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**37TH ST & 65TH AVE INTERSECTION SWMP NARRATIVE**  
 Designer: L. Gentile  
 Detailer: L. Gentile  
 Sheet Subset: ENVI  
 Structure Numbers  
 Subset Sheets: 7 of 7

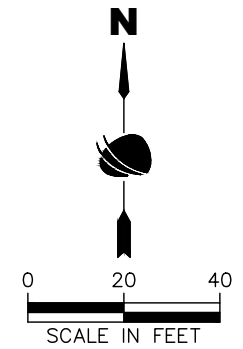
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 STU M415-025  
 Drawing Number ENVI-007  
 Sheet Number 76



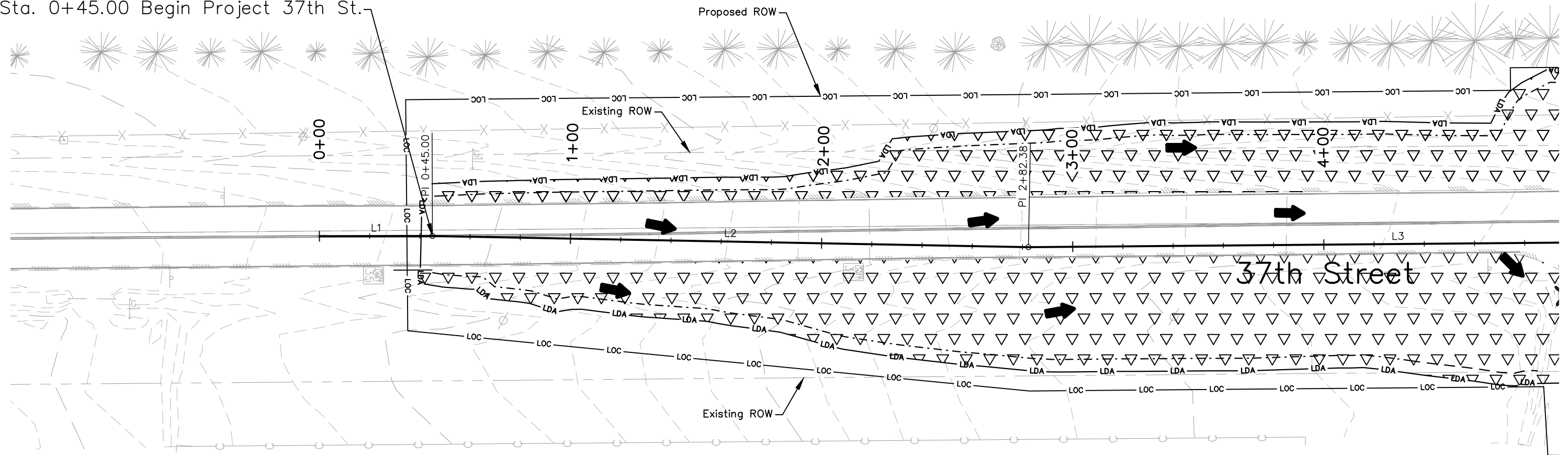
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INITIAL SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		



Sta. 0+45.00 Begin Project 37th St.



Notes:

1. Perimeter controls shall be installed prior to start of construction.
2. Vehicle Tracking Pads shall be located by the contractor.
3. Staging area(s) shall be located by the contractor with City of Evans approval.
4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
5. Control Measures are not drawn to scale and locations are approximate.

37TH STREET PLAN



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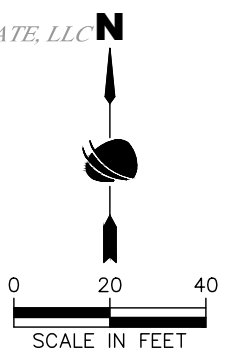
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Designer: T. Tuttle	Structure Numbers	Sheet Subset: ENVI Subset Sheets: ## of
Detailer: S. Hemler		

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-008
Sheet Number 77

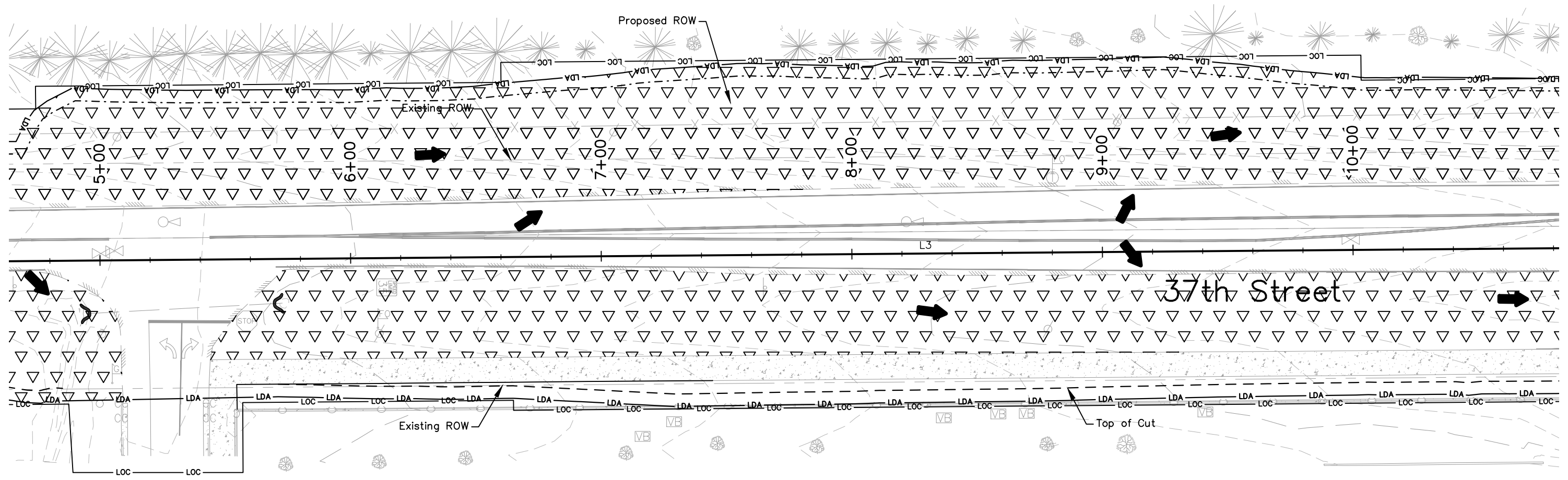
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-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		



- Notes:**
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  4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
  5. Control Measures are not drawn to scale and locations are approximate.

**37TH STREET PLAN**



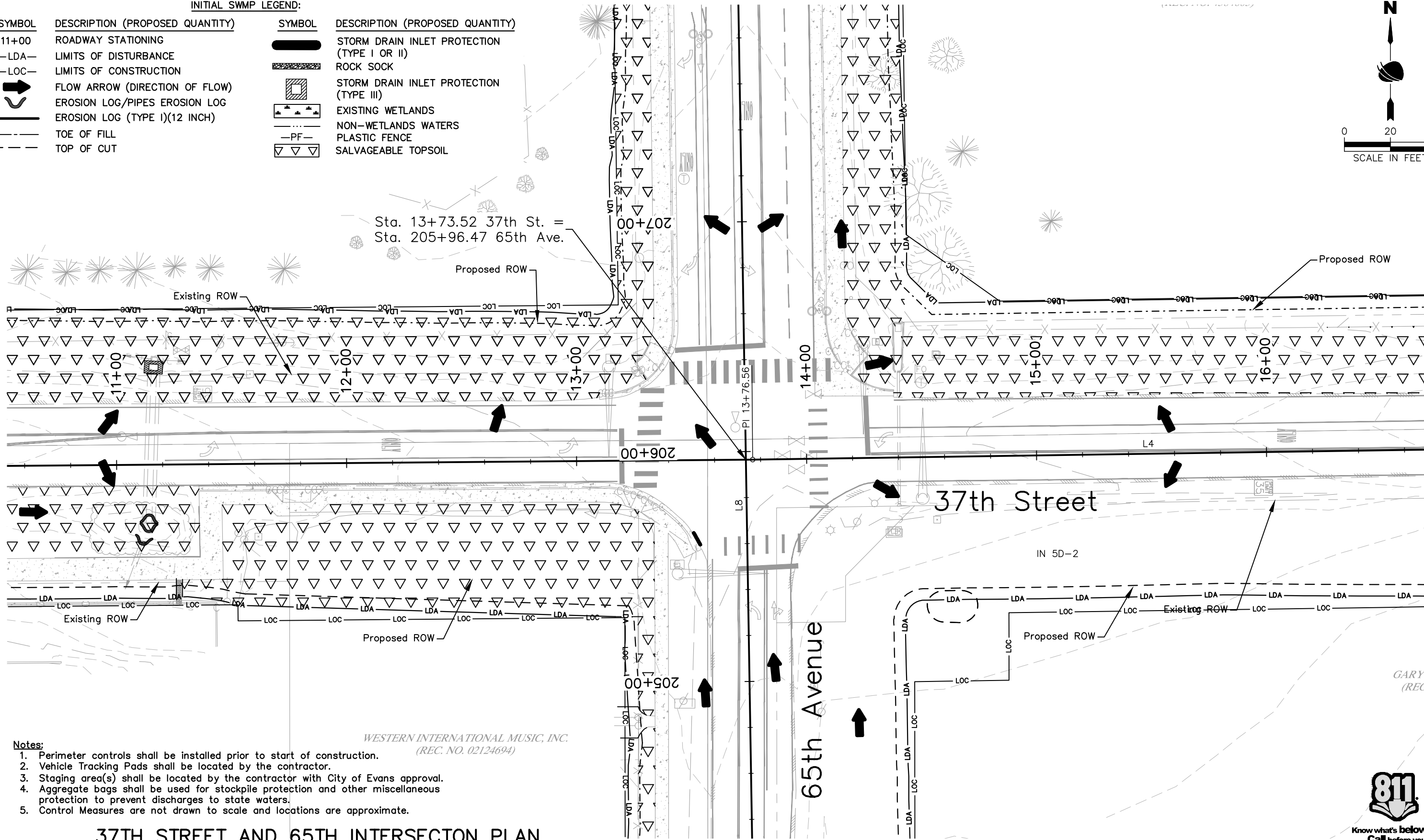
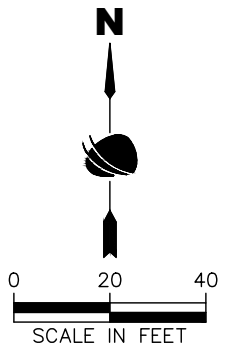
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Date	Comments	Initials																			

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**INITIAL SWMP LEGEND:**

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	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		



Sta. 13+73.52 37th St. =  
Sta. 205+96.47 65th Ave.

37th Street

65th Avenue

WESTERN INTERNATIONAL MUSIC, INC.  
(REC. NO. 02124694)

- Notes:**
1. Perimeter controls shall be installed prior to start of construction.
  2. Vehicle Tracking Pads shall be located by the contractor.
  3. Staging area(s) shall be located by the contractor with City of Evans approval.
  4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
  5. Control Measures are not drawn to scale and locations are approximate.

**37TH STREET AND 65TH INTERSECTION PLAN**



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**RockSol** Consulting Group, Inc.  
12076 Grant Street  
Thornton, CO 80241  
Ph: (303) 962-9300  
Fax: (303) 962-9350

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**37TH ST & 65TH AVE INTERSECTION INITIAL SWMP PLAN**

Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler	Subset Sheets: ## of	

**Project No.**

STU M415-025

Drawing Number ENVI-010

Sheet Number 79

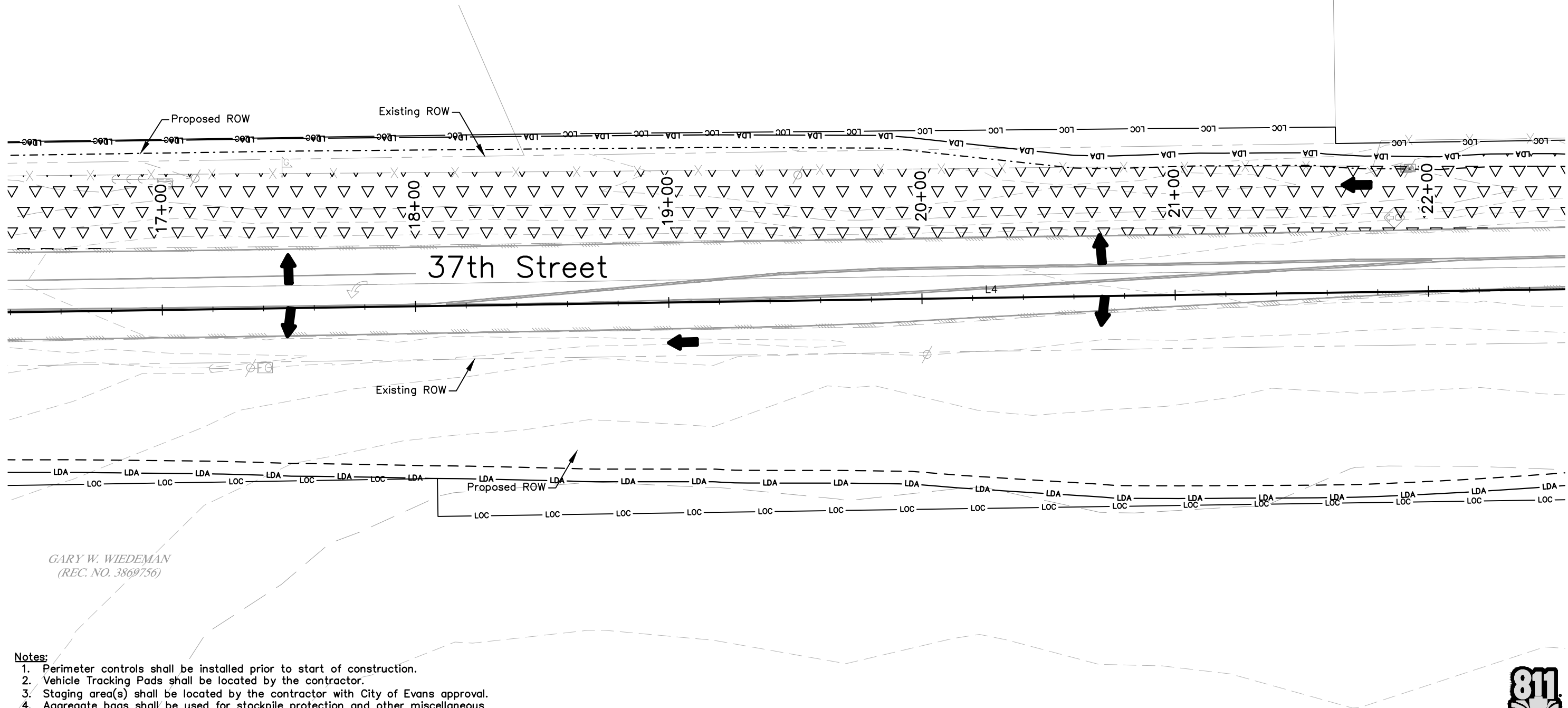
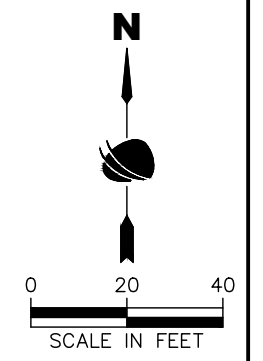
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**INITIAL SWMP LEGEND:**

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	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		

TRACT 2  
CITY OF EVANS  
(REC. NO. 3615971)



GARY W. WIEDEMAN  
(REC. NO. 3869756)

- Notes:**
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  3. Staging area(s) shall be located by the contractor with City of Evans approval.
  4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
  5. Control Measures are not drawn to scale and locations are approximate.

**37TH STREET PLAN**



Plot Date: 9/17/2025 1:02 PM Plotted By: Sarah Hemler  
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025
File Name: SWMP P3-001 INITIAL SWMP PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4"
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



<b>As Constructed</b>
No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION INITIAL SWMP PLAN</b>		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

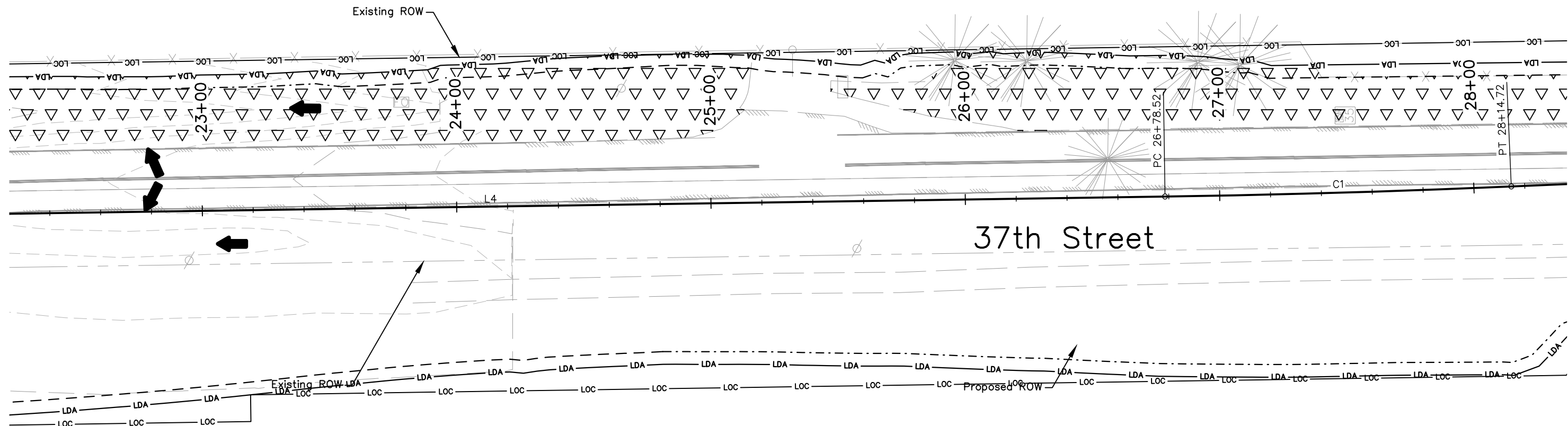
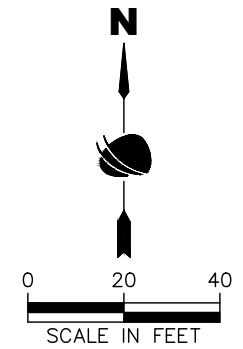
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STU M415-025
Drawing Number ENVI-011
Sheet Number 80

90% DRAFT PLANS

INITIAL SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		

TRACT 3  
JOSHUA BRIAN WELLS  
(REC. NO. 4384603)



GARY W. WIEDEMAN  
(REC. NO. 3869756)

Notes:

1. Perimeter controls shall be installed prior to start of construction.
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4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
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37TH STREET PLAN



90% DRAFT PLANS

Print Date: 9/17/2025
File Name: SWMP P3-001 INITIAL SWMP PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4"
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed
No Revisions:
Revised:
Void:

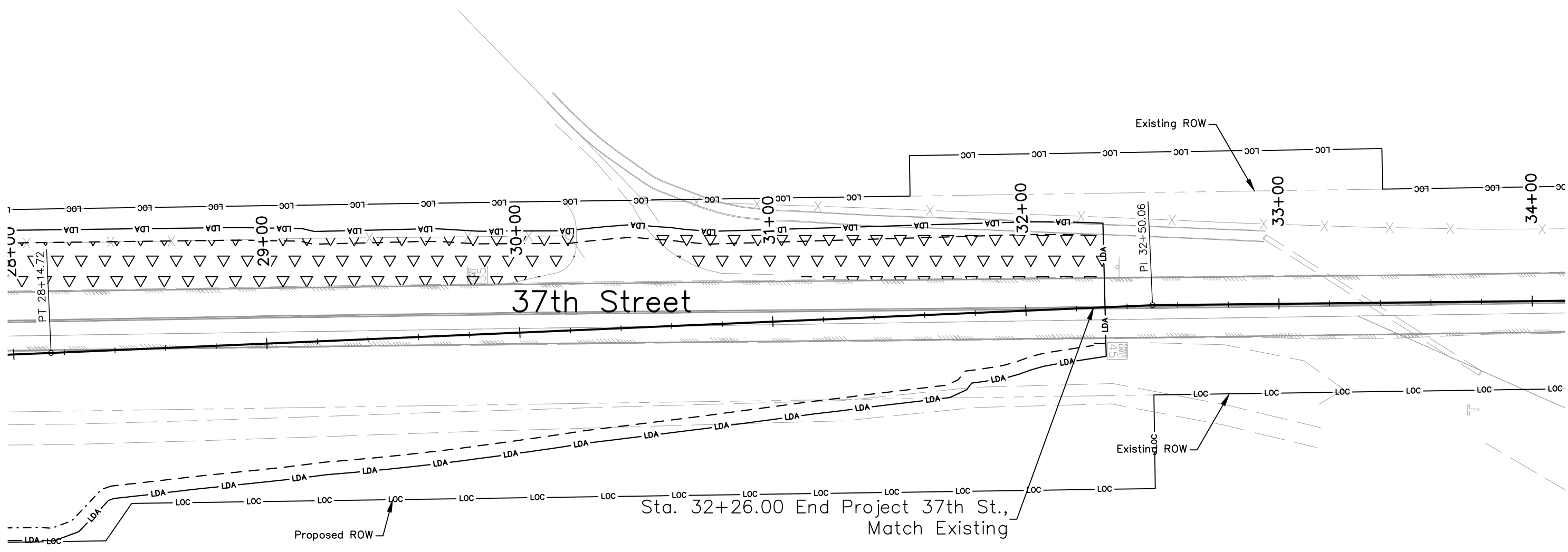
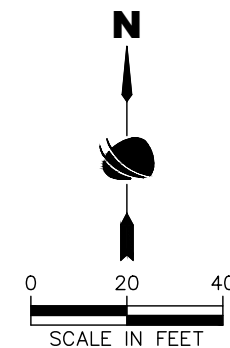
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Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

Project No.
STU M415-025
Drawing Number ENVI-012
Sheet Number 81

Plotted: 9/17/2025 1:02 PM Plotted By: Sarah Hemler  
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**INITIAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		



GARY W. WIEDEMAN  
(REC. NO. 3869756)

- Notes:**
1. Perimeter controls shall be installed prior to start of construction.
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**37TH STREET PLAN**

90% DRAFT PLANS



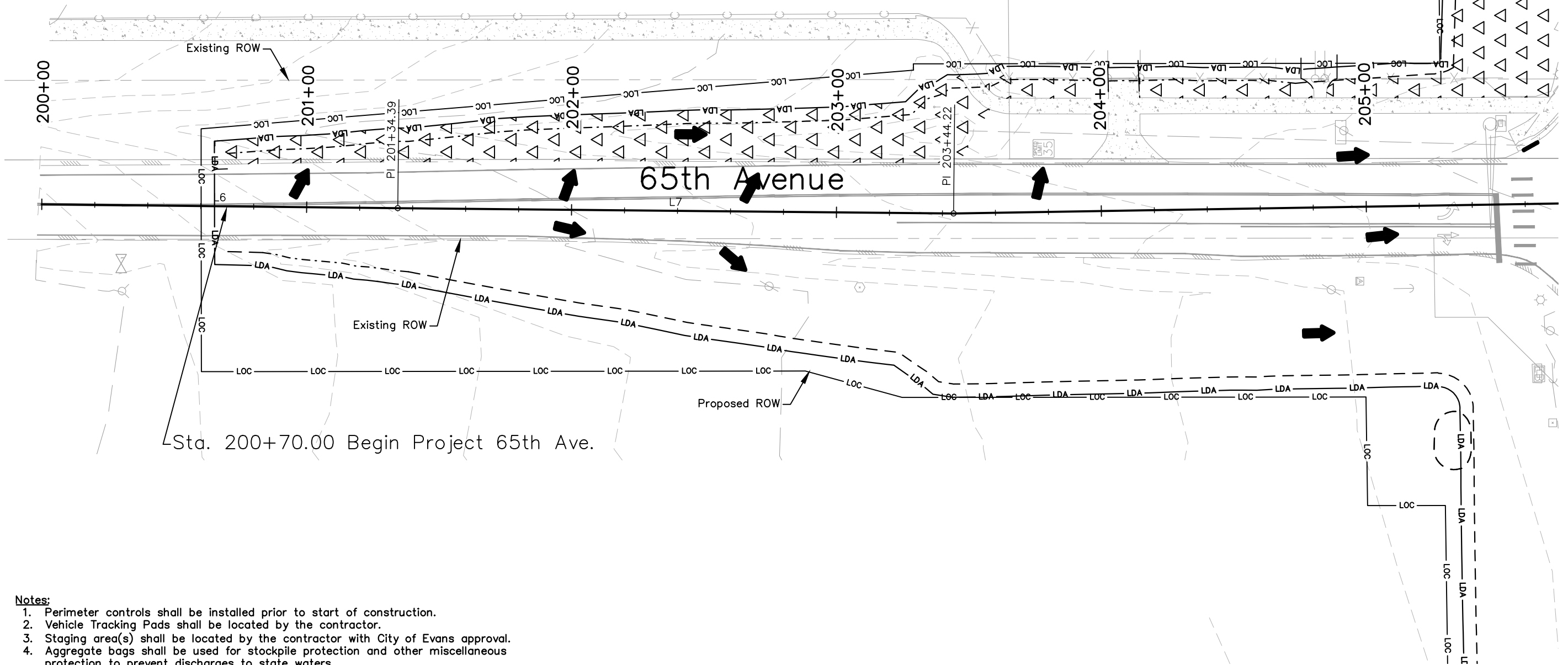
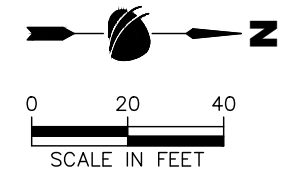
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/17/2025	<b>Sheet Revisions</b>			As Constructed No Revisions: Revised: Void:	<b>37TH ST &amp; 65TH AVE INTERSECTION INITIAL SWMP PLAN</b>		Project No.
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	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350							Sheet Number 82

**INITIAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
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-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		SALVAGEABLE TOPSOIL
	TOP OF CUT		

WESTERN INTERNATIONAL MUSIC, INC.  
(REC. NO. 02124694)



- Notes:**
1. Perimeter controls shall be installed prior to start of construction.
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  3. Staging area(s) shall be located by the contractor with City of Evans approval.
  4. Aggregate bags shall be used for stockpile protection and other miscellaneous protection to prevent discharges to state waters.
  5. Control Measures are not drawn to scale and locations are approximate.

**65TH AVENUE PLAN**



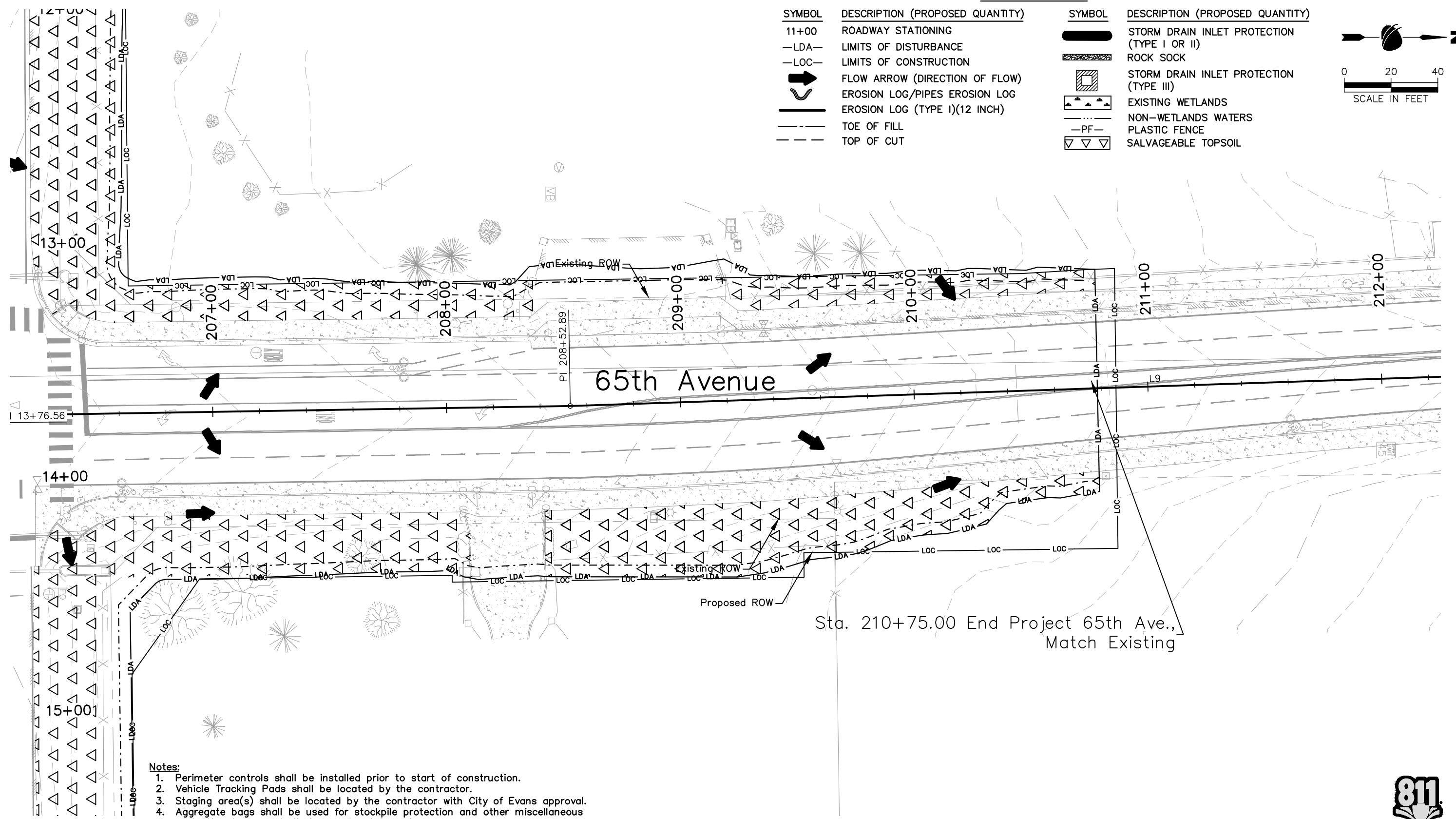
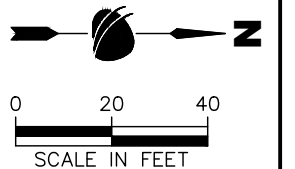
90% DRAFT PLANS

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/17/2025 File Name: SWMP P3-001 INITIAL SWMP PLAN.DWG Horiz. Scale: As Noted Vert. Scale: 1"=10'	<table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sheet Revisions			Date	Comments	Initials											<table border="1"> <tr> <td>As Constructed</td> <td colspan="2">37TH ST &amp; 65TH AVE INTERSECTION INITIAL SWMP PLAN</td> <td>Project No.</td> </tr> <tr> <td>No Revisions:</td> <td colspan="2"> </td> <td>STU M415-025</td> </tr> <tr> <td>Revised:</td> <td>Designer: T. Tuttle</td> <td>Structure Numbers</td> <td>Drawing Number ENVI-014</td> </tr> <tr> <td>Void:</td> <td>Detailer: S. Hemler</td> <td>Subset Sheets: ## of</td> <td>Sheet Number 83</td> </tr> </table>	As Constructed	37TH ST & 65TH AVE INTERSECTION INITIAL SWMP PLAN		Project No.	No Revisions:			STU M415-025	Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number ENVI-014	Void:	Detailer: S. Hemler	Subset Sheets: ## of	Sheet Number 83
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As Constructed	37TH ST & 65TH AVE INTERSECTION INITIAL SWMP PLAN		Project No.																																
No Revisions:			STU M415-025																																
Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number ENVI-014																																
Void:	Detailer: S. Hemler	Subset Sheets: ## of	Sheet Number 83																																
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350																																			

INITIAL SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG	-PF-	NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)		SALVAGEABLE TOPSOIL
	TOE OF FILL		
	TOP OF CUT		



65th Avenue

Sta. 210+75.00 End Project 65th Ave.,  
Match Existing

- Notes:**
1. Perimeter controls shall be installed prior to start of construction.
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  5. Control Measures are not drawn to scale and locations are approximate.

65TH AVENUE PLAN



90% DRAFT PLANS

Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025
File Name: SWMP P3-001 INITIAL SWMP PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4"
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



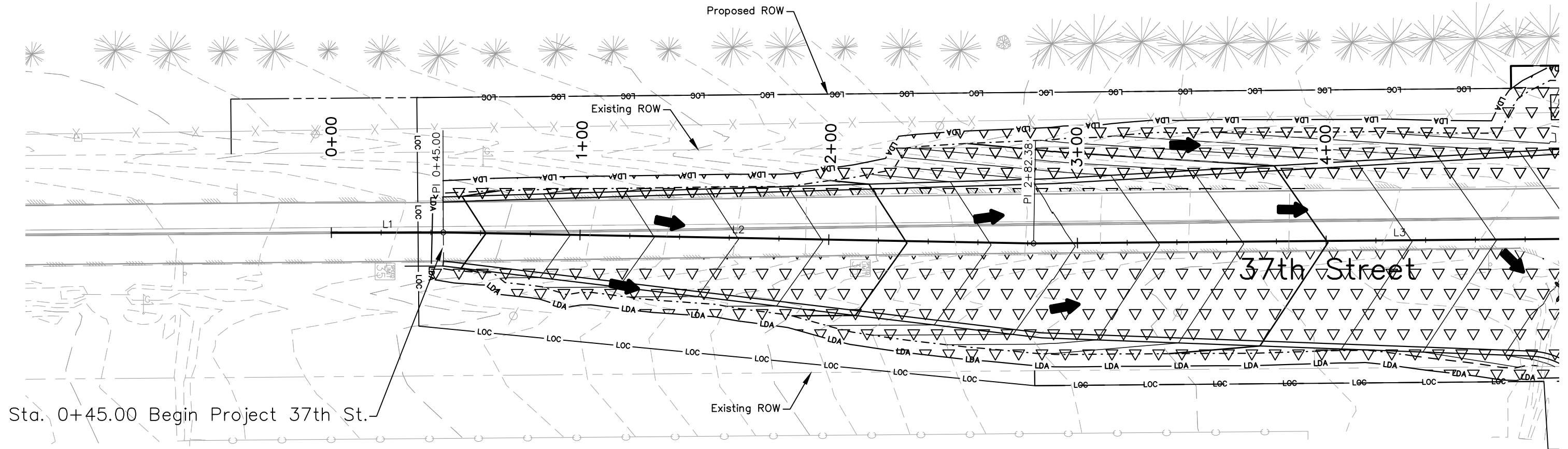
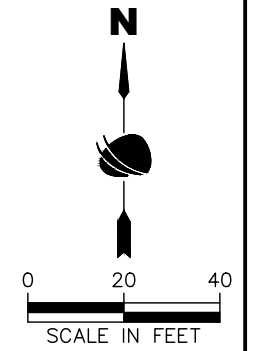
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Void:

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Designer: T. Tuttle	Structure Numbers	Sheet Subset: ENVI Subset Sheets: ## of
Detailer: S. Hemler		

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-015
Sheet Number 84

INTERIM SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
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-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



90% DRAFT PLANS

37TH STREET PLAN



Print Date: 9/17/2025
File Name: SWMP P3-001 INTERIM SWMP PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4"=1'-0"
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12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



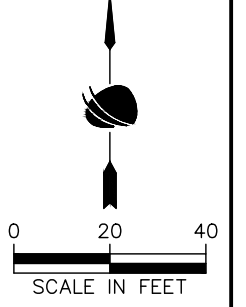
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Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-016
Sheet Number 85

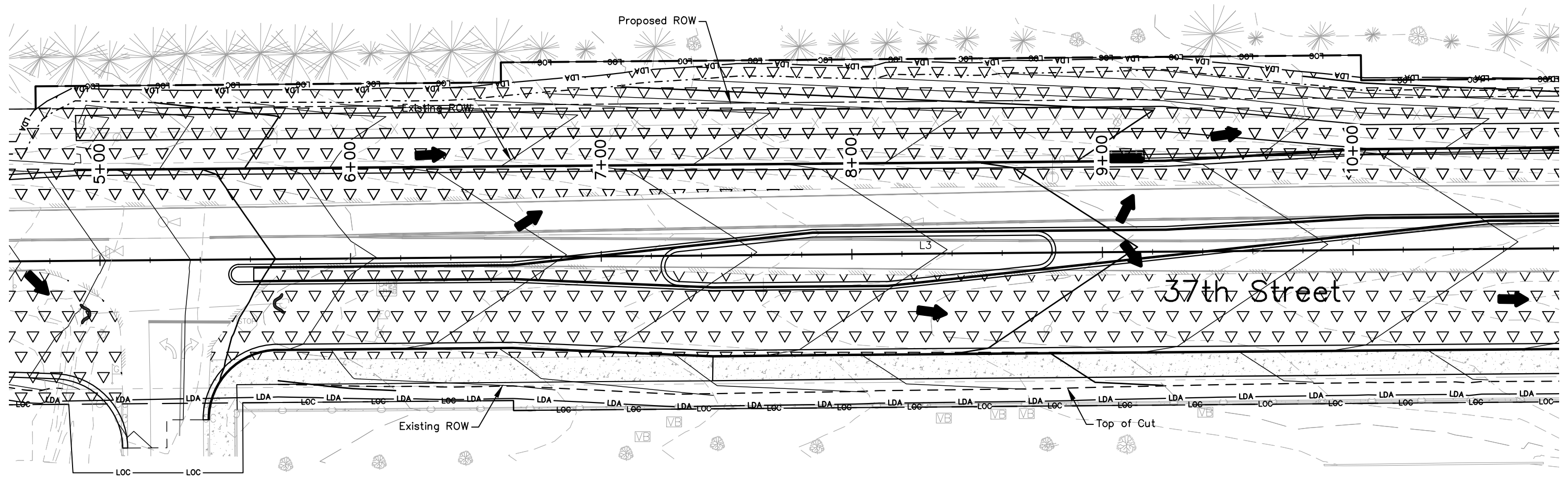
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**INTERIM SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



**37TH STREET PLAN**

90% DRAFT PLANS



Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
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All seals for this set of drawings are applied to the cover page(s)

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12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



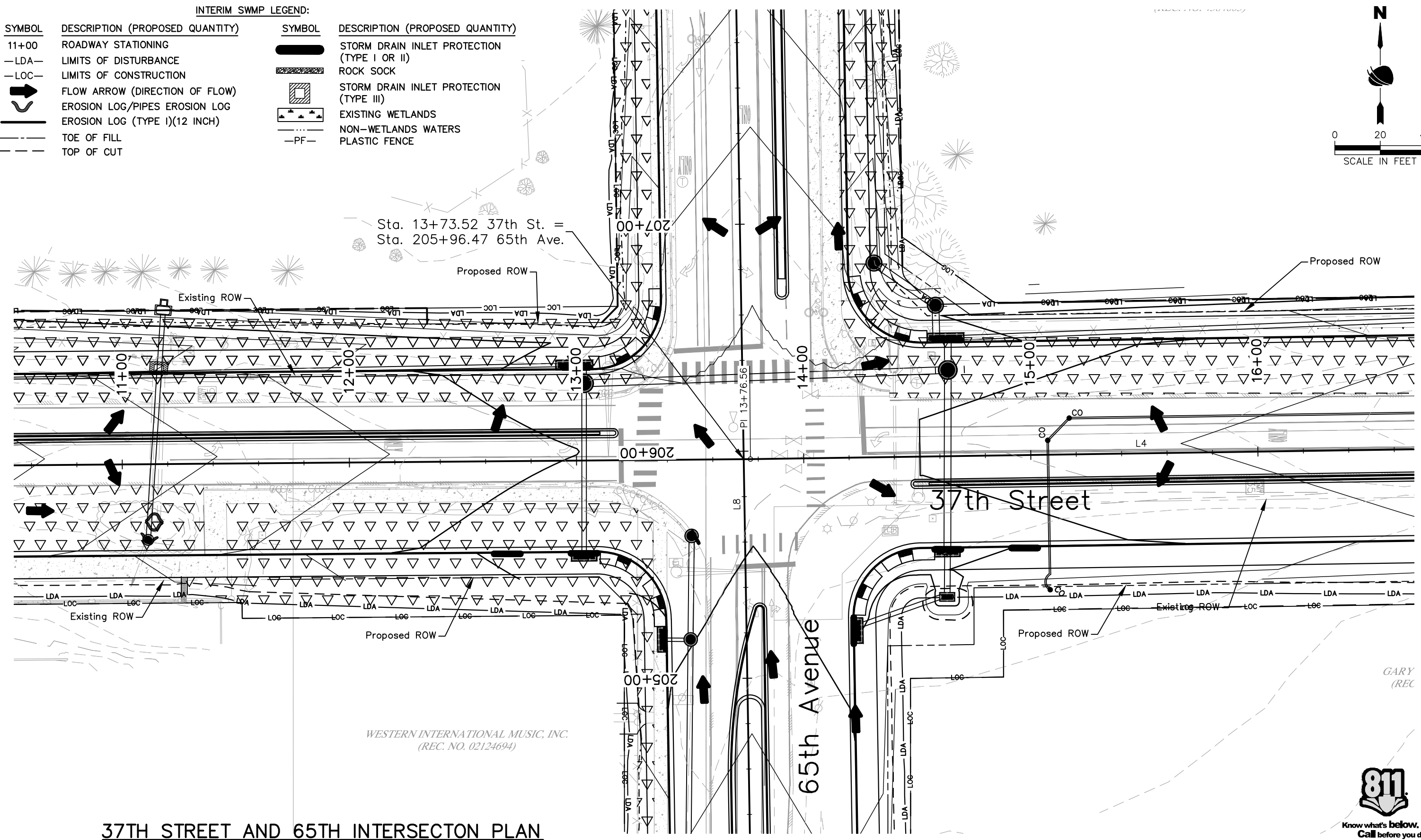
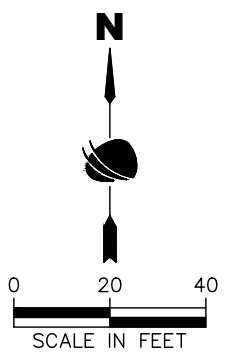
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Revised:
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Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-017
Sheet Number 86

**INTERIM SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
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-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



**37TH STREET AND 65TH INTERSECTION PLAN**

90% DRAFT PLANS

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**RockSol**  
Consulting Group, Inc.  
12076 Grant Street  
Thornton, CO 80241  
Ph: (303) 962-9300  
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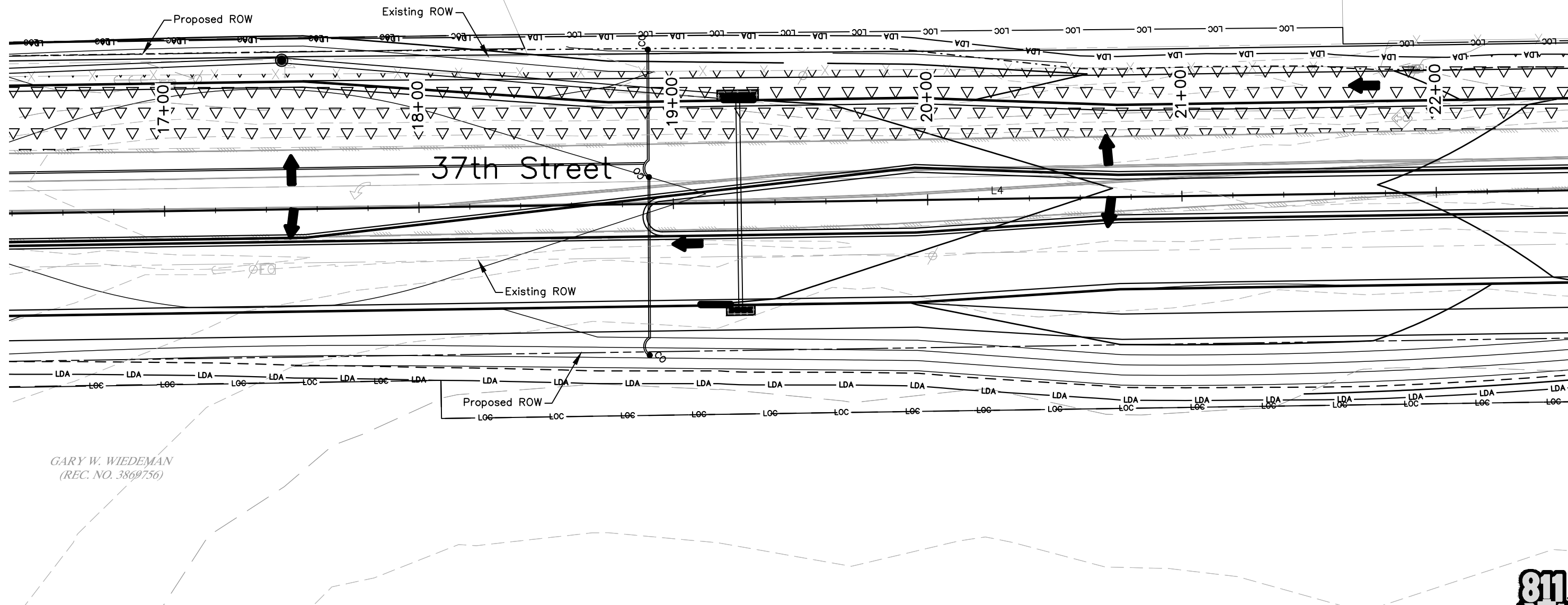
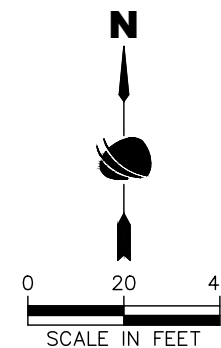


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INTERIM SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
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-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		

TRACT 2  
CITY OF EVANS  
(REC. NO. 3615971)



GARY W. WIEDEMAN  
(REC. NO. 3869756)

37TH STREET PLAN

90% DRAFT PLANS



Print Date: 9/17/2025
File Name: SWMP P3-001 INTERIM SWMP PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4"
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed
No Revisions:
Revised:
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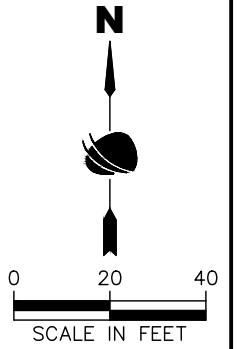
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Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

Project No.
STU M415-025
Drawing Number ENVI-019
Sheet Number 88

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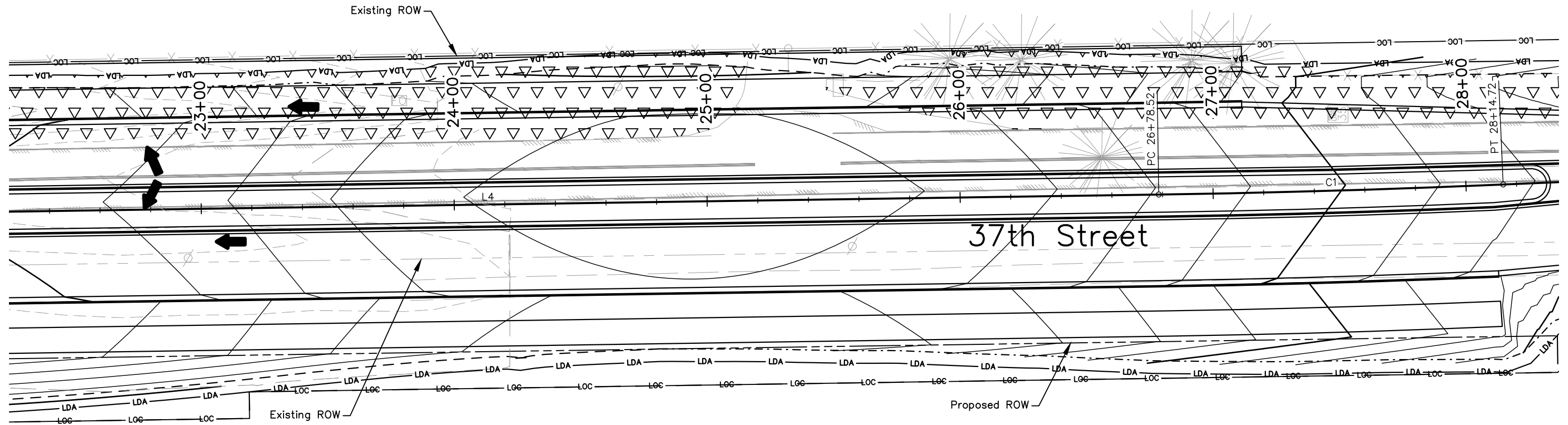
All seals for this set of drawings are applied to the cover page(s)

TRACT 3  
JOSHUA BRIAN WELLS  
(REC. NO. 4384603)



INTERIM SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



GARY W. WIEDEMAN  
(REC. NO. 3869756)

37TH STREET PLAN

90% DRAFT PLANS



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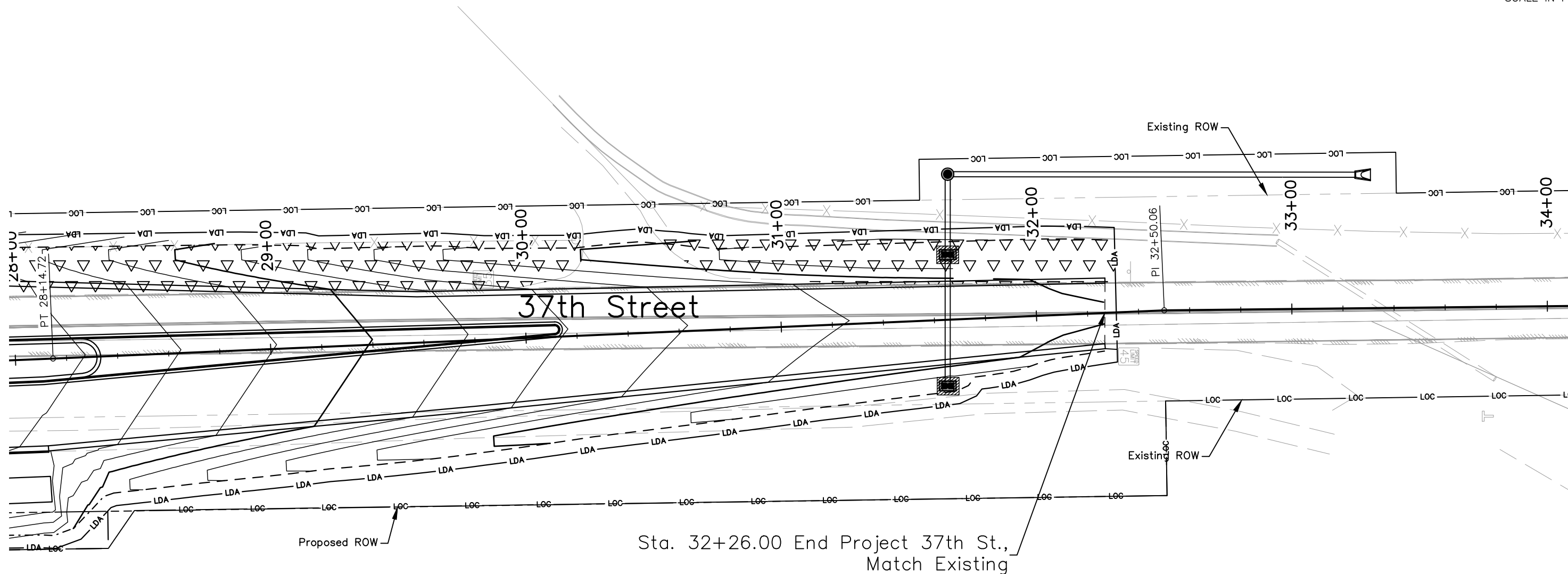
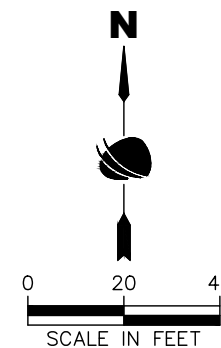
37TH ST & 65TH AVE INTERSECTION INTERIM SWMP PLAN		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

Project No.
STU M415-025
Drawing Number ENVI-020
Sheet Number 89

Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
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INTERIM SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



GARY W. WIEDEMAN  
(REC. NO. 3869756)

### 37TH STREET PLAN

90% DRAFT PLANS



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<b>37TH ST &amp; 65TH AVE INTERSECTION INTERIM SWMP PLAN</b>		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

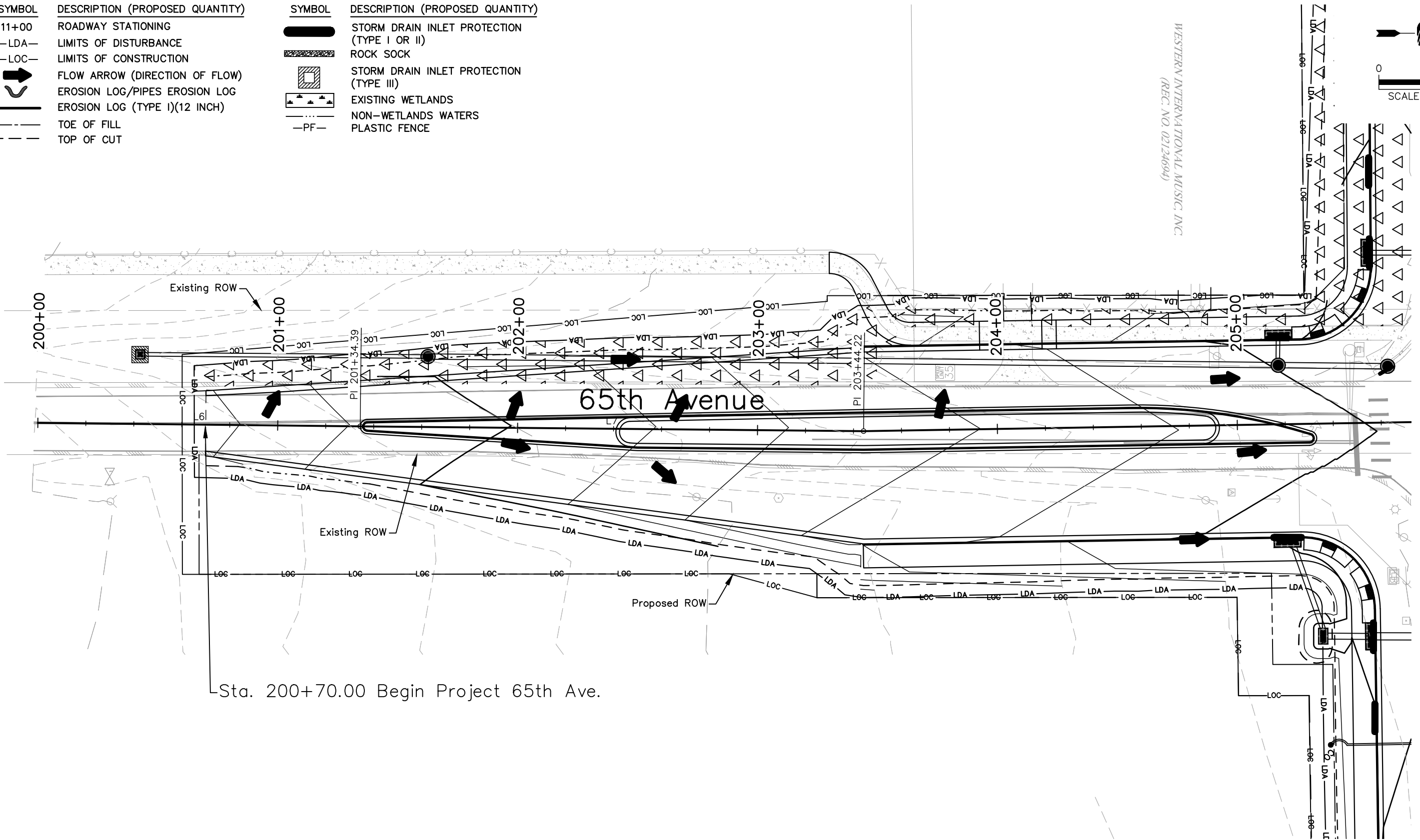
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Drawing Number ENVI-021
Sheet Number 90

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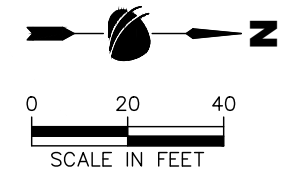
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**INTERIM SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
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-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



WESTERN INTERNATIONAL MUSIC, INC.  
(REC. NO. 02124694)



Sta. 200+70.00 Begin Project 65th Ave.

**65TH AVENUE PLAN**

90% DRAFT PLANS



Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
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Date	Comments	Initials



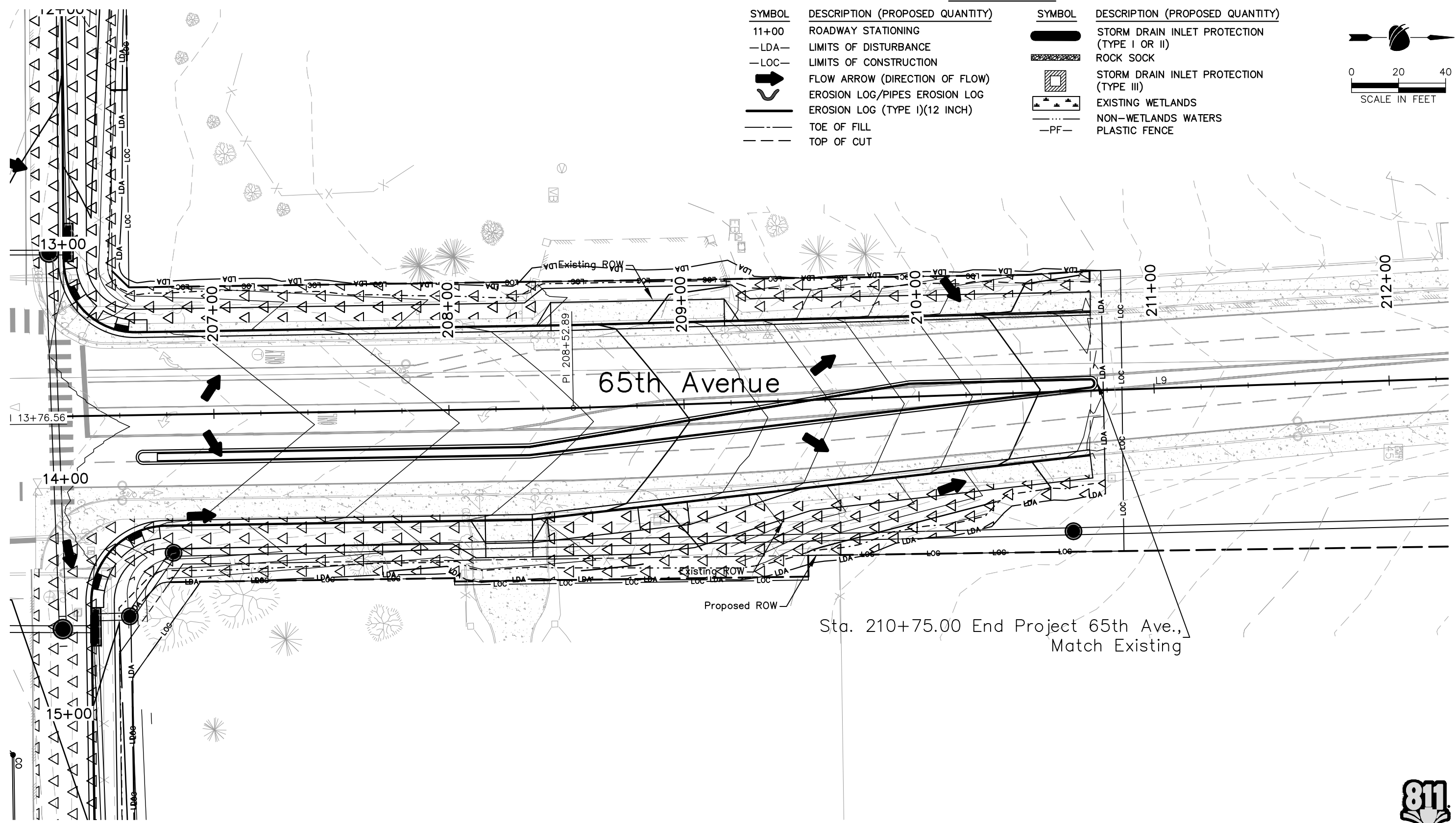
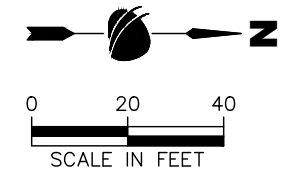
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No Revisions:
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Void:

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Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-022
Sheet Number 91

INTERIM SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		STORM DRAIN INLET PROTECTION (TYPE I OR II)
-LDA-	LIMITS OF DISTURBANCE		ROCK SOCK
-LOC-	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE III)
	FLOW ARROW (DIRECTION OF FLOW)		EXISTING WETLANDS
	EROSION LOG/PIPES EROSION LOG		NON-WETLANDS WATERS
	EROSION LOG (TYPE I)(12 INCH)	-PF-	PLASTIC FENCE
	TOE OF FILL		
	TOP OF CUT		



65th Avenue

Sta. 210+75.00 End Project 65th Ave.,  
Match Existing

65TH AVENUE PLAN

90% DRAFT PLANS



Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
 C:\Q-PROJECTS\ACTIVE PROJECTS\33022-CITY OF EVANS 37TH ST AND 65TH AVE INTERSECTION DESIGN\00\_COMPUTER DESIGN FILES\02\_SHEET FILES\SWMP P3-01 INTERIM SWMP PLAN.DWG

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Sheet Revisions		
Date	Comments	Initials



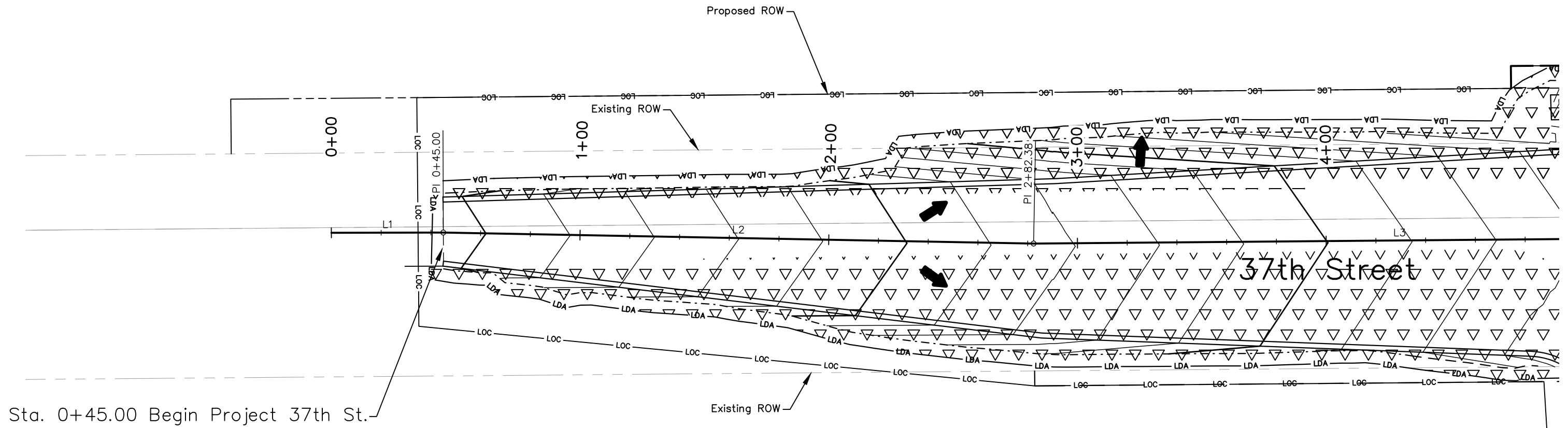
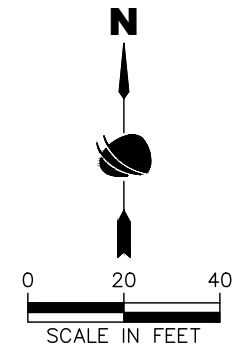
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Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

Project No.
STU M415-025
Drawing Number ENVI-023
Sheet Number 92

**FINAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		ROCK SOCK
—LDA—	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
—LOC—	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		



Sta. 0+45.00 Begin Project 37th St.

90% DRAFT PLANS

**37TH STREET PLAN**



Print Date: 9/17/2025  
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Date	Comments	Initials

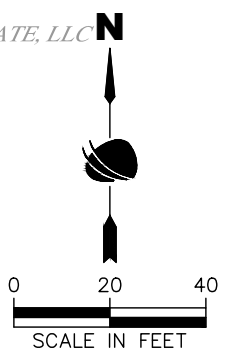


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Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION FINAL SWMP PLAN</b>		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

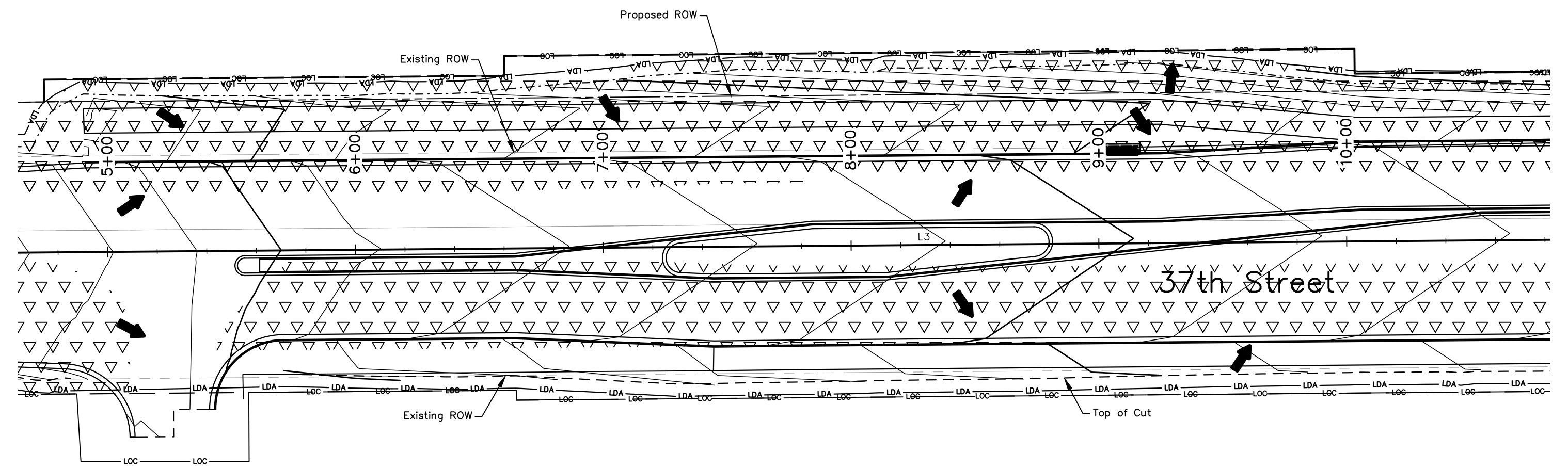
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Drawing Number ENVI-024
Sheet Number 93

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**FINAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING	[Hatched Box]	ROCK SOCK
—LDA—	LIMITS OF DISTURBANCE	[Square with X]	STORM DRAIN INLET PROTECTION (TYPE III)
—LOC—	LIMITS OF CONSTRUCTION	[Dotted Area]	EXISTING WETLANDS
[Arrow]	FLOW ARROW (DIRECTION OF FLOW)	[Dashed Line]	NON-WETLAND WATERS
[Wavy Line]	EROSION LOG/PIPES EROSION LOG	[Vertical Lines]	SEEDING (TALL NATIVE GRASS)
[Thick Line]	EROSION LOG (TYPE I)(12 INCH)	[Stippled Area]	SEEDING (SHORT NATIVE GRASS)
[Dashed Line]	TOE OF FILL	[Stippled Area]	SEEDING (WETLAND)
[Dashed Line]	TOP OF CUT	[Cross-hatched Area]	SOIL RETENTION BLANKET
[Thick Line]	STORM DRAIN INLET PROTECTION (TYPE I OR II)		



### 37TH STREET PLAN

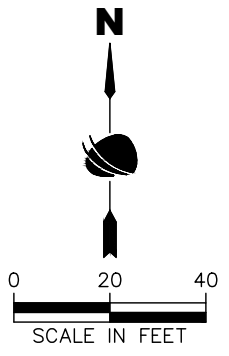
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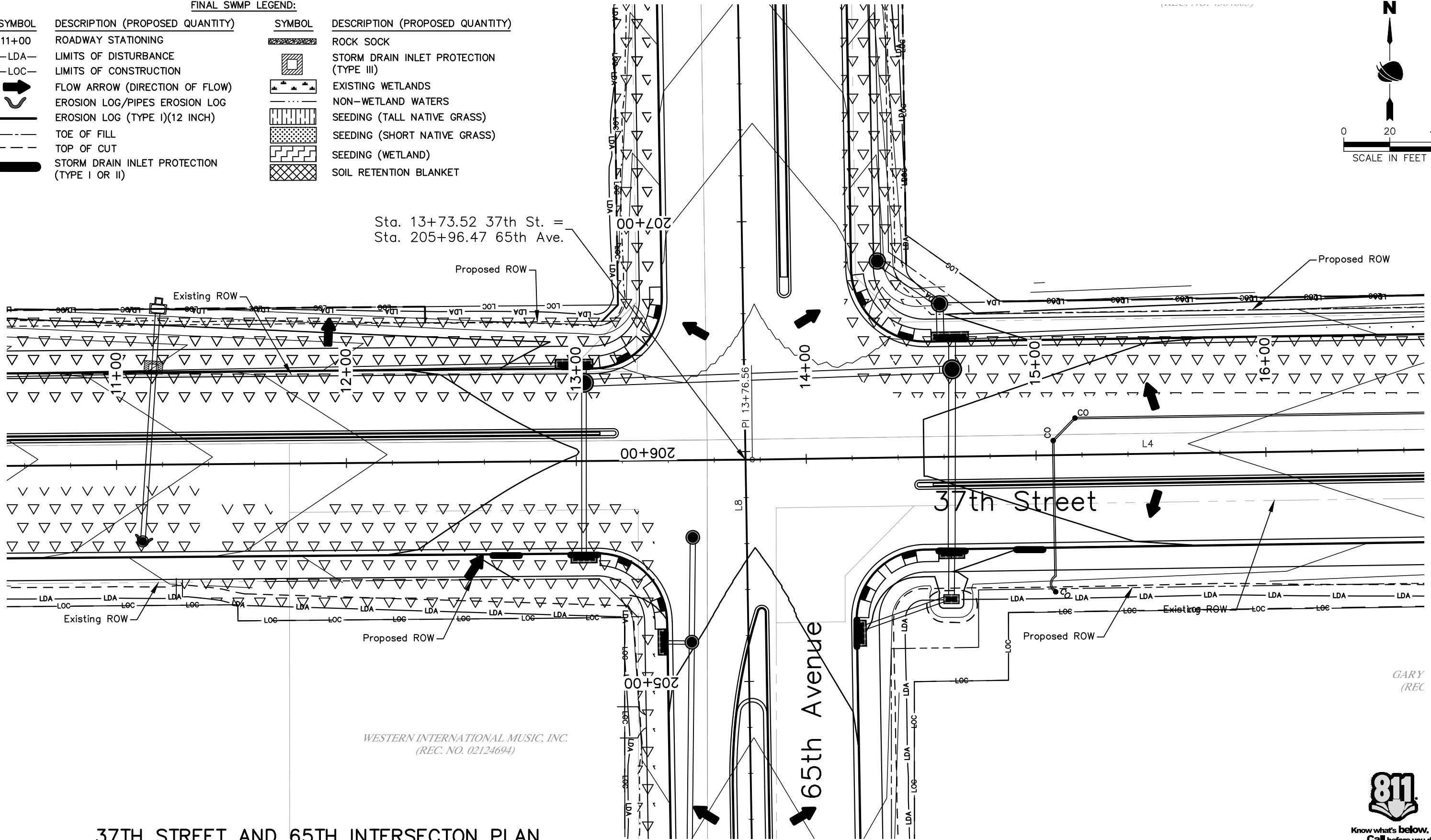
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Date	Comments	Initials																																													
As Constructed	37TH ST & 65TH AVE INTERSECTION FINAL SWMP PLAN																																														
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Sheet Subset: ENVI		Subset Sheets: ## of																																													
Project No.	STU M415-025																																														
Drawing Number	ENVI-025																																														
Sheet Number	94																																														

FINAL SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		ROCK SOCK
—LDA—	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
—LOC—	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		



Sta. 13+73.52 37th St. =  
Sta. 205+96.47 65th Ave.



WESTERN INTERNATIONAL MUSIC, INC.  
(REC. NO. 02124694)

GARY  
(REC)

### 37TH STREET AND 65TH INTERSECTION PLAN



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37TH ST & 65TH AVE INTERSECTION FINAL SWMP PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

<b>Project No.</b>
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Drawing Number ENVI-026
Sheet Number 95

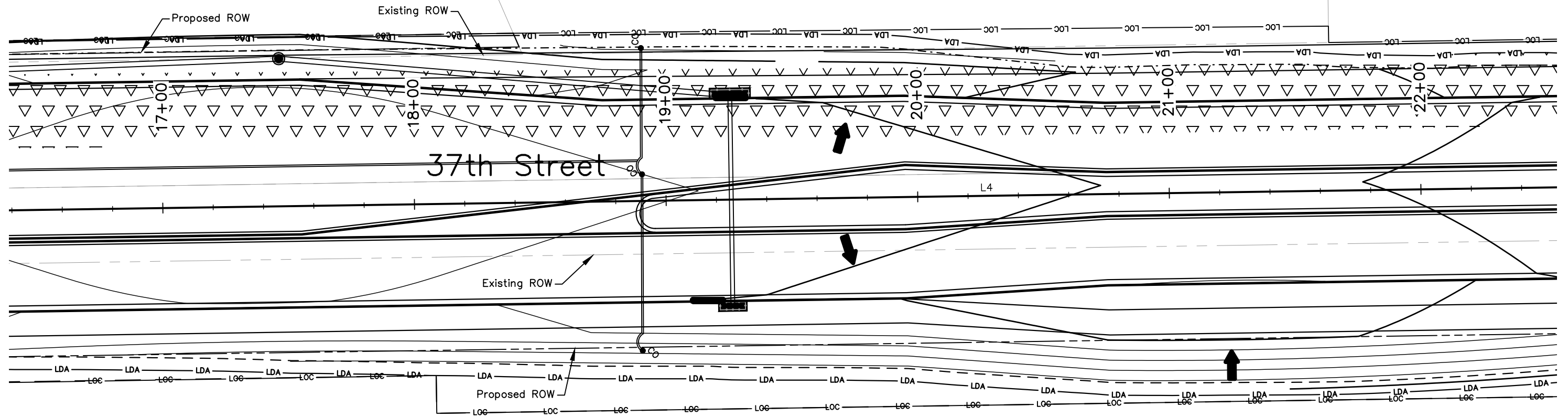
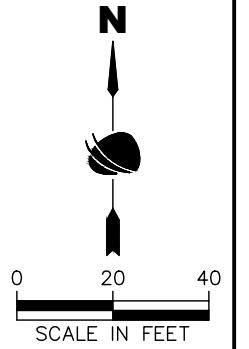
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**FINAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		ROCK SOCK
—LDA—	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
—LOC—	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		

TRACT 2  
CITY OF EVANS  
(REC. NO. 3615971)



GARY W. WIEDEMAN  
(REC. NO. 3869756)

**37TH STREET PLAN**

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<b>37TH ST &amp; 65TH AVE INTERSECTION FINAL SWMP PLAN</b>		
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Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

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Drawing Number ENVI-027
Sheet Number 96

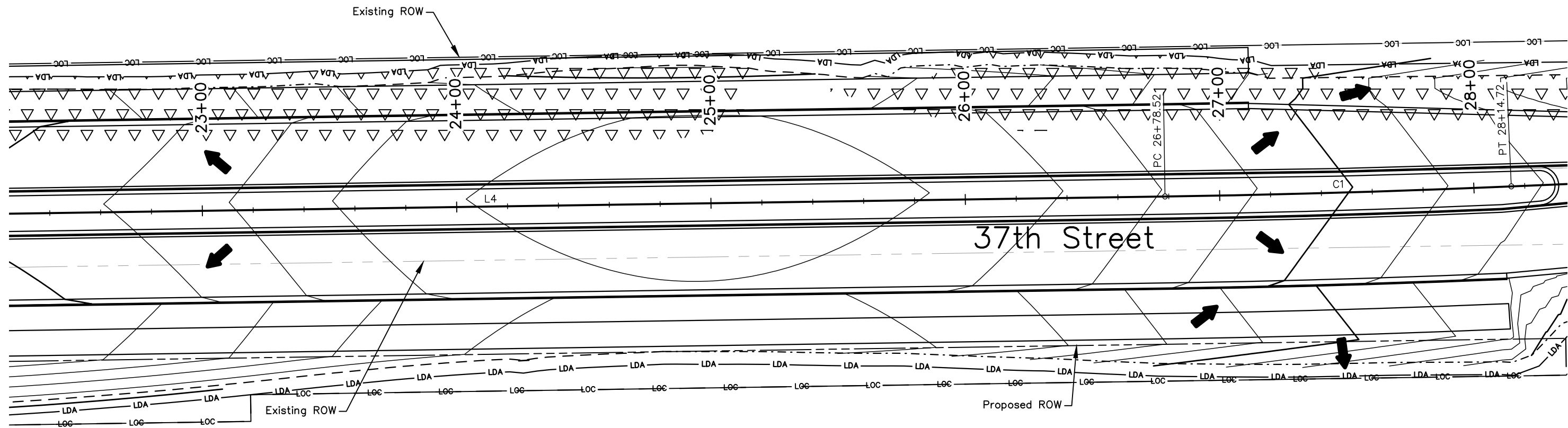
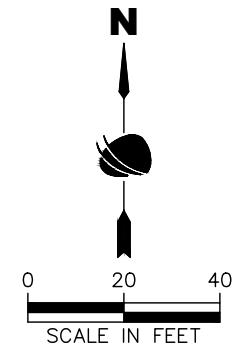
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**FINAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		ROCK SOCK
-LDA-	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
-LOC-	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		

TRACT 3  
JOSHUA BRIAN WELLS  
(REC. NO. 4384603)



GARY W. WIEDEMAN  
(REC. NO. 3869756)

**37TH STREET PLAN**

90% DRAFT PLANS



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<b>37TH ST &amp; 65TH AVE INTERSECTION FINAL SWMP PLAN</b>		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

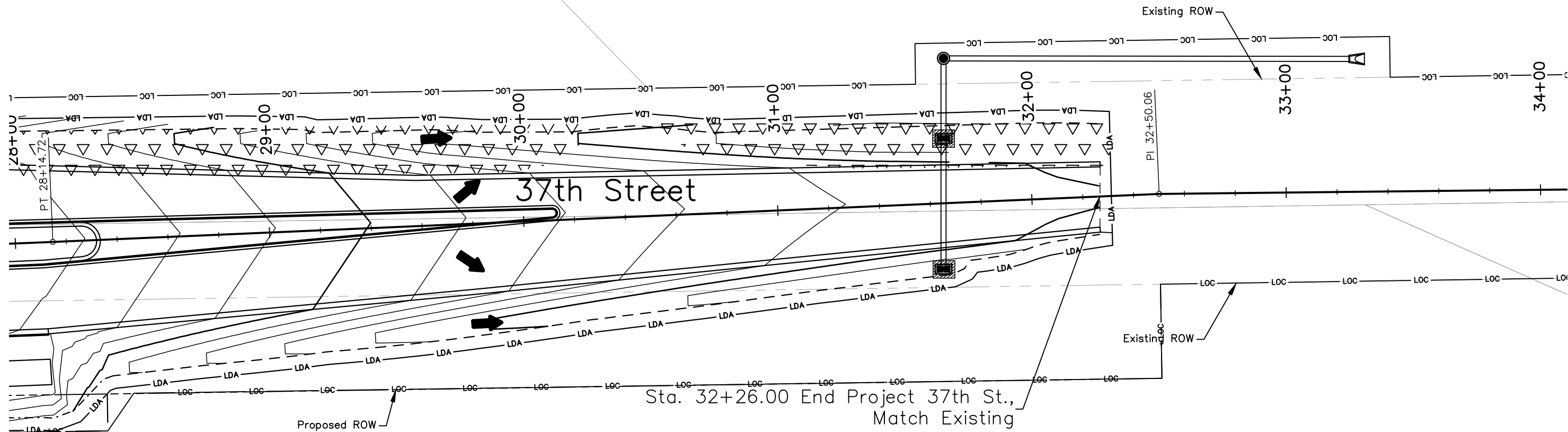
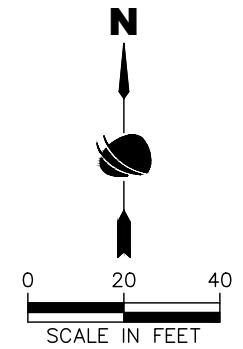
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Drawing Number ENVI-028
Sheet Number 97

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**FINAL SWMP LEGEND:**

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11+00	ROADWAY STATIONING		ROCK SOCK
-LDA-	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
-LOC-	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		



GARY W. WIEDEMAN  
(REC. NO. 3869756)

**37TH STREET PLAN**

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Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION FINAL SWMP PLAN</b>		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: ENVI	Subset Sheets: ## of	

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-029
Sheet Number 98

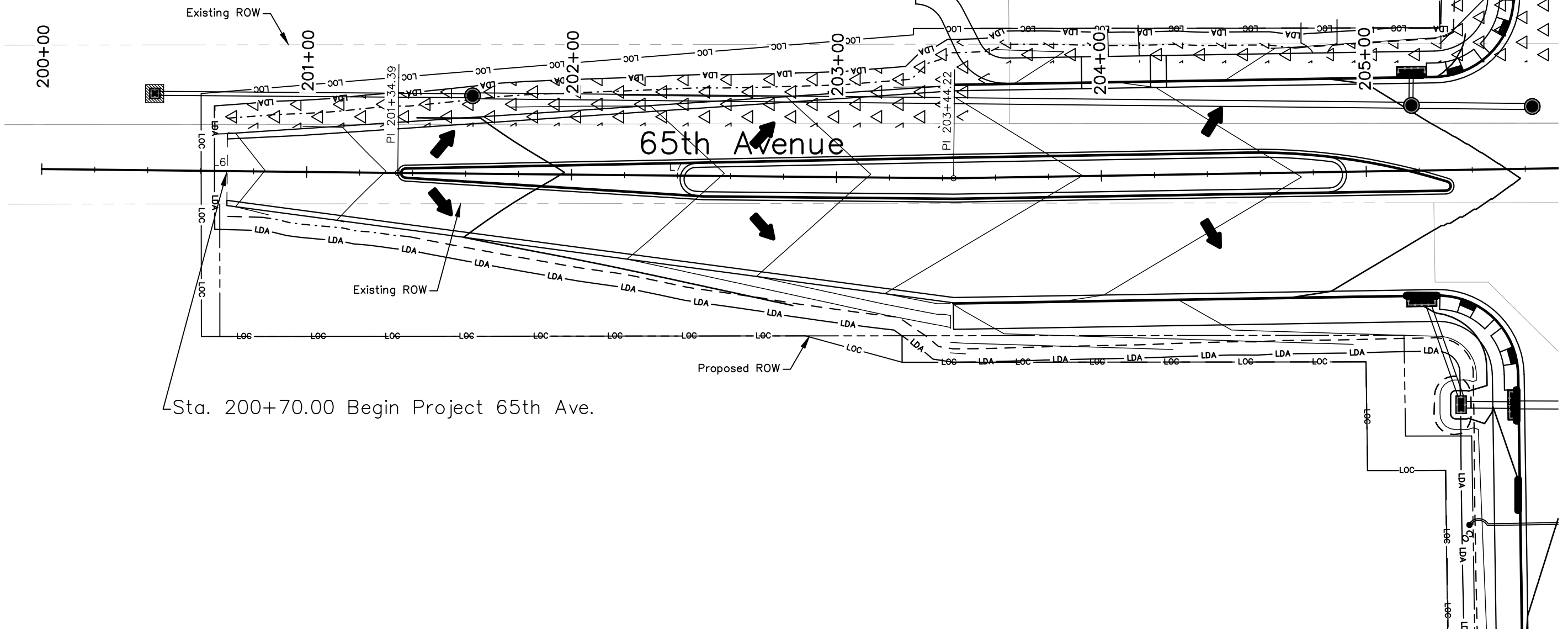
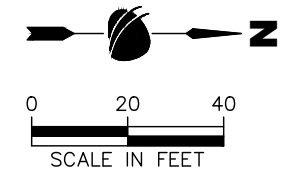
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All seals for this set of drawings are applied to the cover page(s)

**FINAL SWMP LEGEND:**

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		ROCK SOCK
-LDA-	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
-LOC-	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		

WESTERN INTERNATIONAL MUSIC, INC.  
(REC. NO. 02124694)



Sta. 200+70.00 Begin Project 65th Ave.

**65TH AVENUE PLAN**



90% DRAFT PLANS

Plot Date: 9/17/2025 1:04 PM Plotted By: Sarah Hemler  
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 Horiz. Scale: As Noted Vert. Scale: 1"=10'  
  
 12076 Grant Street  
 Thornton, CO 80241  
 Ph: (303) 962-9300  
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



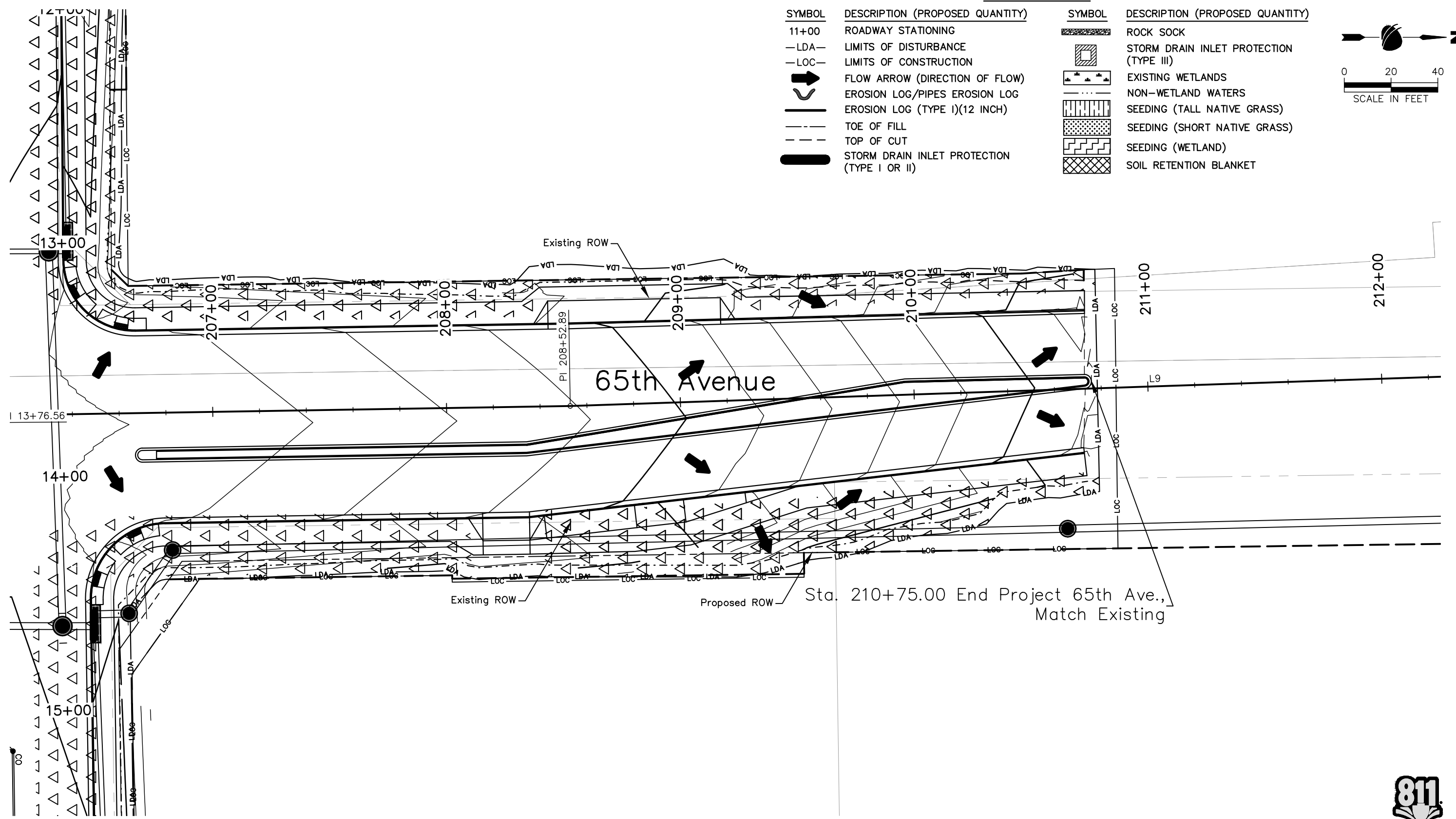
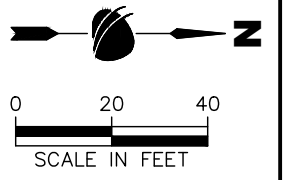
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No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION FINAL SWMP PLAN</b>		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

<b>Project No.</b>
STU M415-025
Drawing Number ENVI-030
Sheet Number 99

FINAL SWMP LEGEND:

SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING		ROCK SOCK
-LDA-	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE III)
-LOC-	LIMITS OF CONSTRUCTION		EXISTING WETLANDS
	FLOW ARROW (DIRECTION OF FLOW)		NON-WETLAND WATERS
	EROSION LOG/PIPES EROSION LOG		SEEDING (TALL NATIVE GRASS)
	EROSION LOG (TYPE I)(12 INCH)		SEEDING (SHORT NATIVE GRASS)
	TOE OF FILL		SEEDING (WETLAND)
	TOP OF CUT		SOIL RETENTION BLANKET
	STORM DRAIN INLET PROTECTION (TYPE I OR II)		



65th Avenue

Sta. 210+75.00 End Project 65th Ave.,  
Match Existing

65TH AVENUE PLAN

90% DRAFT PLANS



Plot Date: 9/17/2025 1:04 PM Plotted By: Sarah Hemler  
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All seals for this set of drawings are applied to the cover page(s)

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	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed	No Revisions:
Revised:	
Void:	

37TH ST & 65TH AVE INTERSECTION FINAL SWMP PLAN		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	ENVI	Subset Sheets: ## of

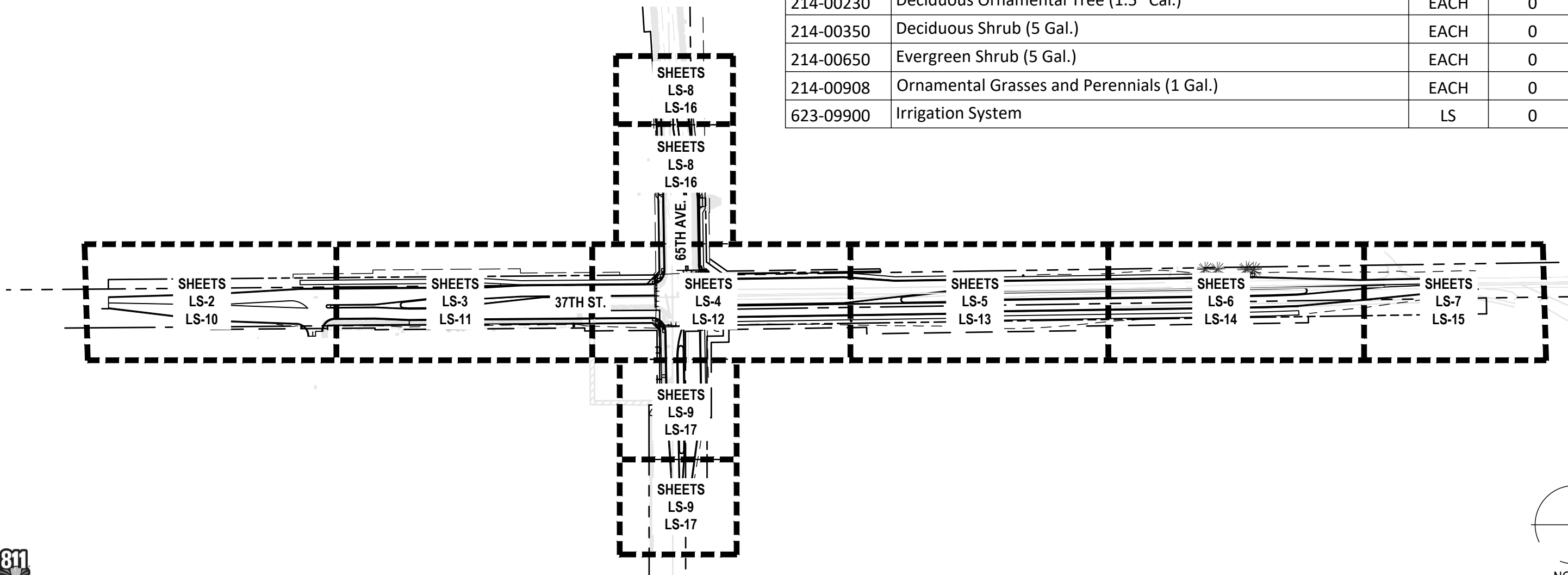
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Drawing Number	ENVI-031
Sheet Number	100

**LANDSCAPE SHEET INDEX**

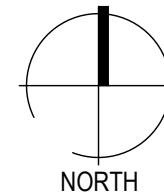
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LS-2	LANDSCAPE PLAN
LS-3	LANDSCAPE PLAN
LS-4	LANDSCAPE PLAN
LS-5	LANDSCAPE PLAN
LS-6	LANDSCAPE PLAN
LS-7	MULCH & BOULDER PLAN
LS-8	MULCH & BOULDER PLAN
LS-9	MULCH & BOULDER PLAN
LS-10	MULCH & BOULDER PLAN
LS-11	PLANT LIST
LS-12	LANDSCAPE NOTES
LS-13	LANDSCAPE DETAILS
LS-14	LANDSCAPE DETAILS
LS-15	LANDSCAPE DETAILS
LS-16	LANDSCAPE DETAILS

**SUMMARY OF QUANTITIES**

ITEM #	ITEM DESC.	UNIT	QTY
207-00405	Topsoil (Special) - 4" at Sod and 6" Beds outside of Median, 18" In Median	CY	0
213-00005	Wood (Organic) Mulch (Brown Western Cedar)(4" Depth)	CY	0
213-00067	Inorganic Mulch (1.5" to 3" Tan River Rock)(3" Depth)(Special)	SF	0
213-00440	Metal Landscape Border (1/8" x 4")	LF	0
213-00318	18 Inch Root Barrier	LF	0
213-00705	Landscape Boulder A (Siloam)(4'l. x 2'w. x 2'h.)(Special)	EACH	0
213-00705	Landscape Boulder B (Siloam) (3'l. x 2'w. x 2'h.)(Special)	EACH	0
213-00705	Landscape Boulder C (Siloam) (2'l. x 2'w. x 2'h.)(Special)	EACH	0
214-00220	Deciduous Tree (2" Cal.)	EACH	0
214-00230	Deciduous Ornamental Tree (1.5" Cal.)	EACH	0
214-00350	Deciduous Shrub (5 Gal.)	EACH	0
214-00650	Evergreen Shrub (5 Gal.)	EACH	0
214-00908	Ornamental Grasses and Perennials (1 Gal.)	EACH	0
623-09900	Irrigation System	LS	0



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Print Date: 12-5-2023

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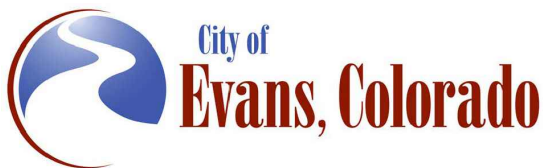
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**Sheet Revisions**

Date:	Comments	Init.

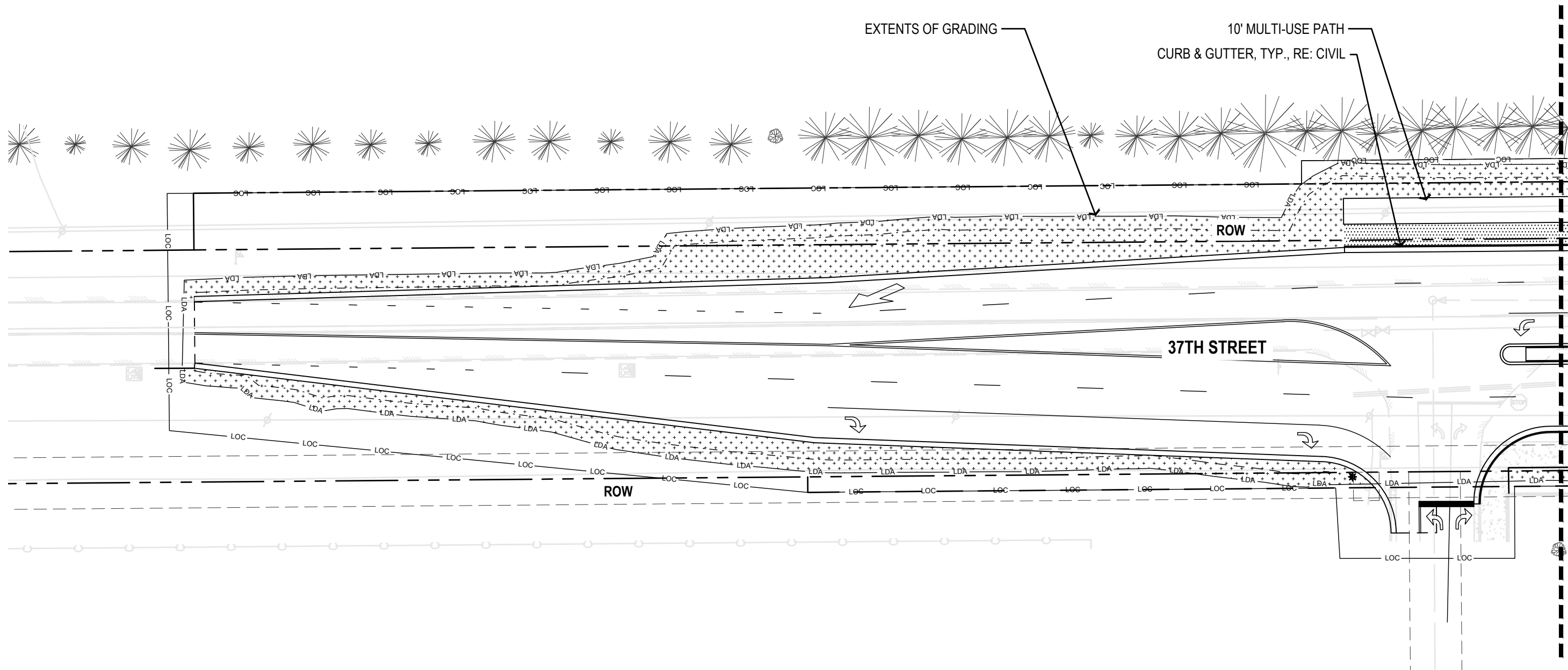


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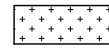





37TH STREET WIDENING PHASE 2A  
LANDSCAPE PLAN

Designer:	DE	Structure	
Detailer:	DE	Numbers	
Sheet Subset: LANDSCAPE	Subset Sheets: 1	of 23	

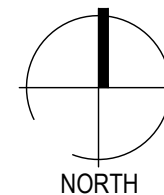
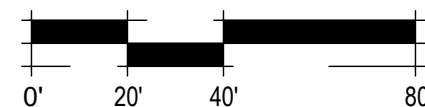
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Drawing Number	LS-1
Sheet Number	101



**LEGEND**

-  TURF: RE: SWMP
-  SEED TYPE 1, RE: SWMP
-  INORGANIC MULCH
-  ORGANIC MULCH
-  A LANDSCAPE BOULDER A
-  B LANDSCAPE BOULDER B
-  C LANDSCAPE BOULDER C

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

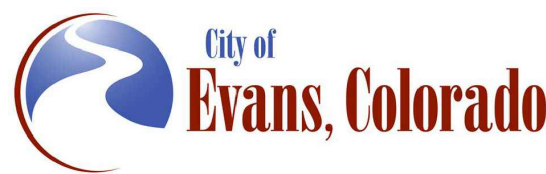


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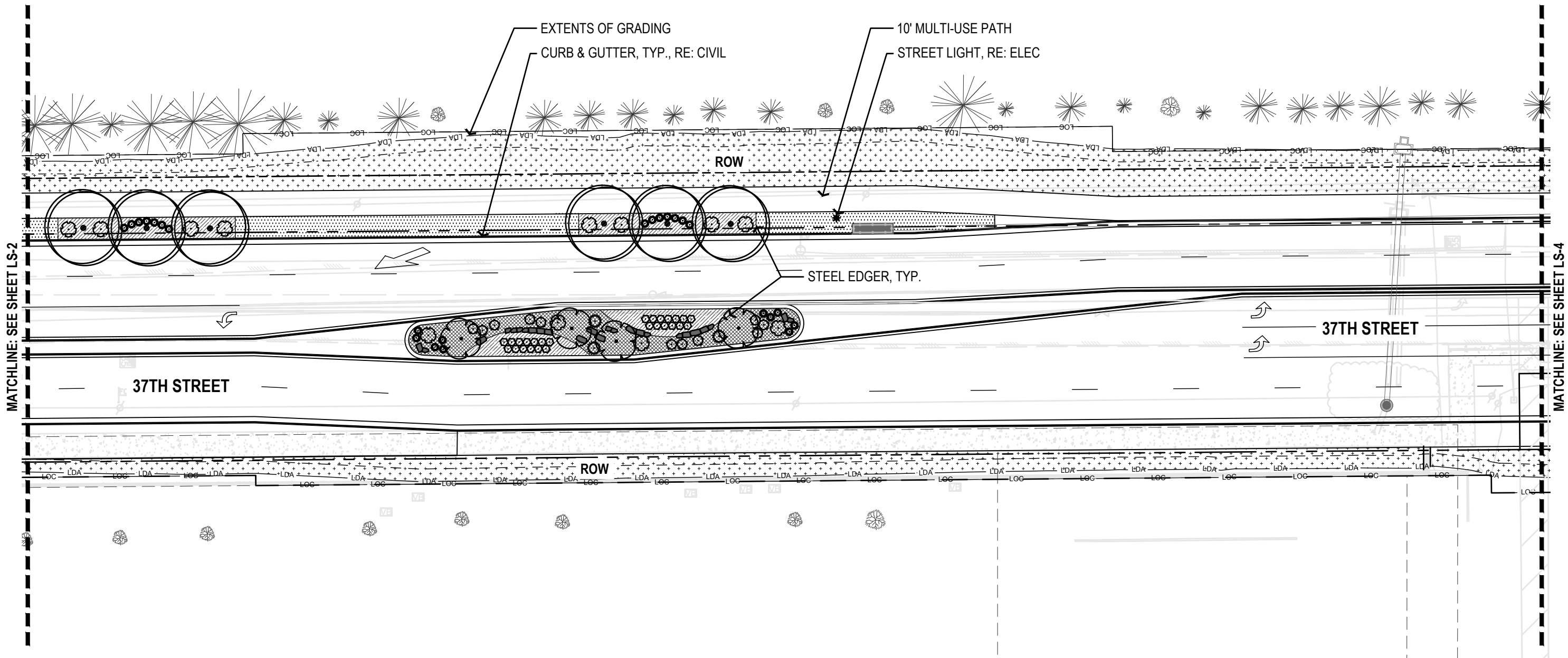


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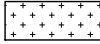





Sheet Revisions		
Date:	Comments	Init.



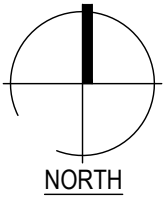
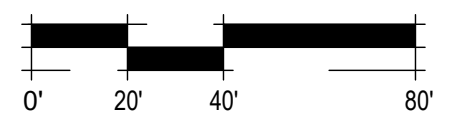
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Revised:	Designer: DE	Structure Numbers	Drawing Number LS-2
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			Sheet Number 102



**LEGEND**

-  TURF: RE: SWMP
-  SEED TYPE 1, RE: SWMP
-  INORGANIC MULCH
-  ORGANIC MULCH
-  A LANDSCAPE BOULDER A
-  B LANDSCAPE BOULDER B
-  C LANDSCAPE BOULDER C

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

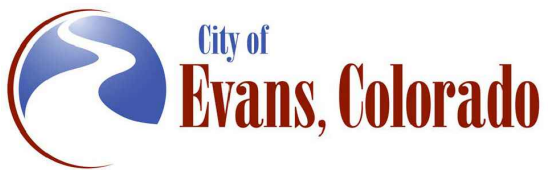


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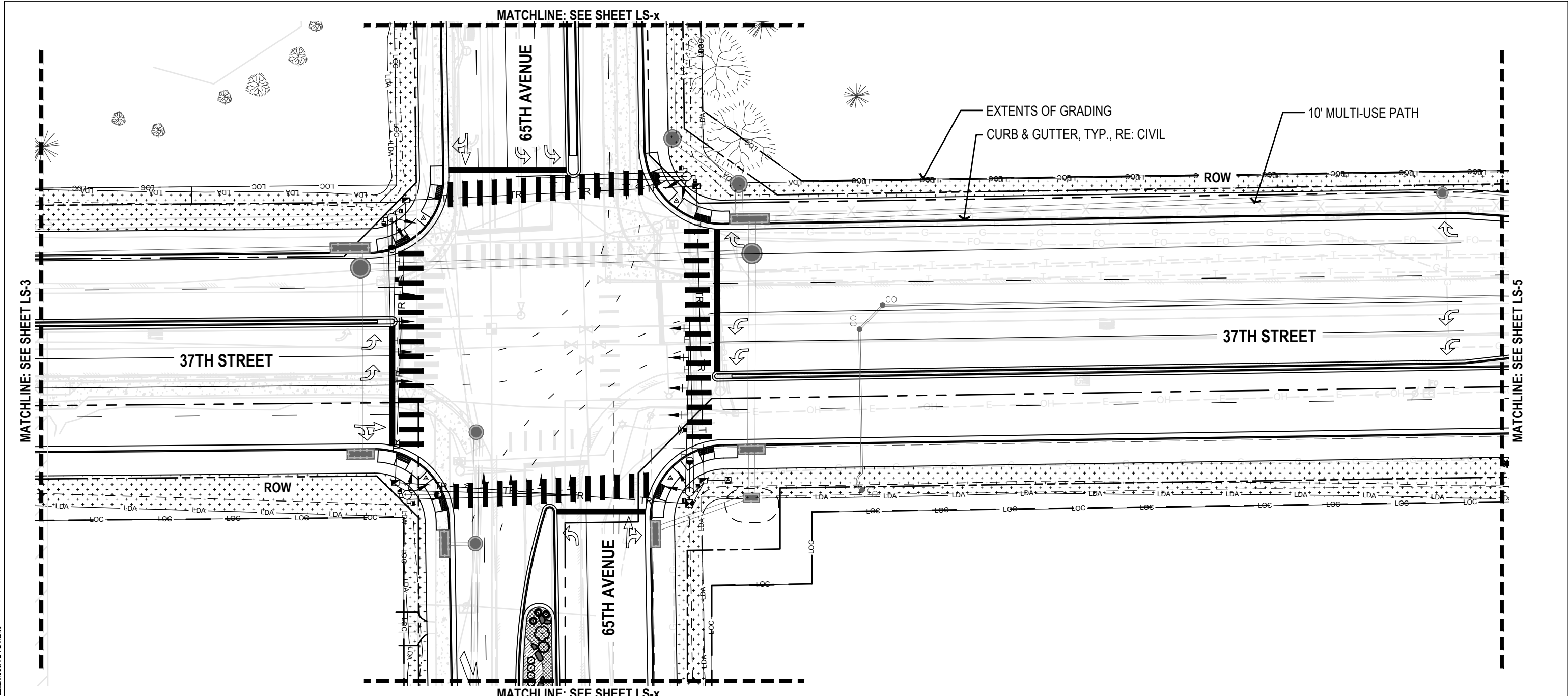
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As Constructed
No Revisions:
Revised:
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37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN		
Designer:	DE	Structure
Detailer:	DE	Numbers
Sheet Subset: LANDSCAPE	Subset Sheets: 3 of 23	

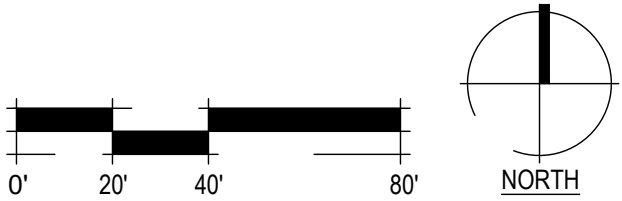
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AQC M415-021
Drawing Number LS-3
Sheet Number 103



**LEGEND**

	TURF: RE: SWMP
	SEED TYPE 1, RE: SWMP
	INORGANIC MULCH
	ORGANIC MULCH
	LANDSCAPE BOULDER A
	LANDSCAPE BOULDER B
	LANDSCAPE BOULDER C

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

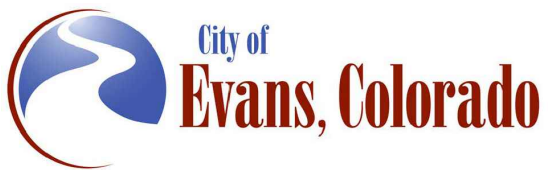


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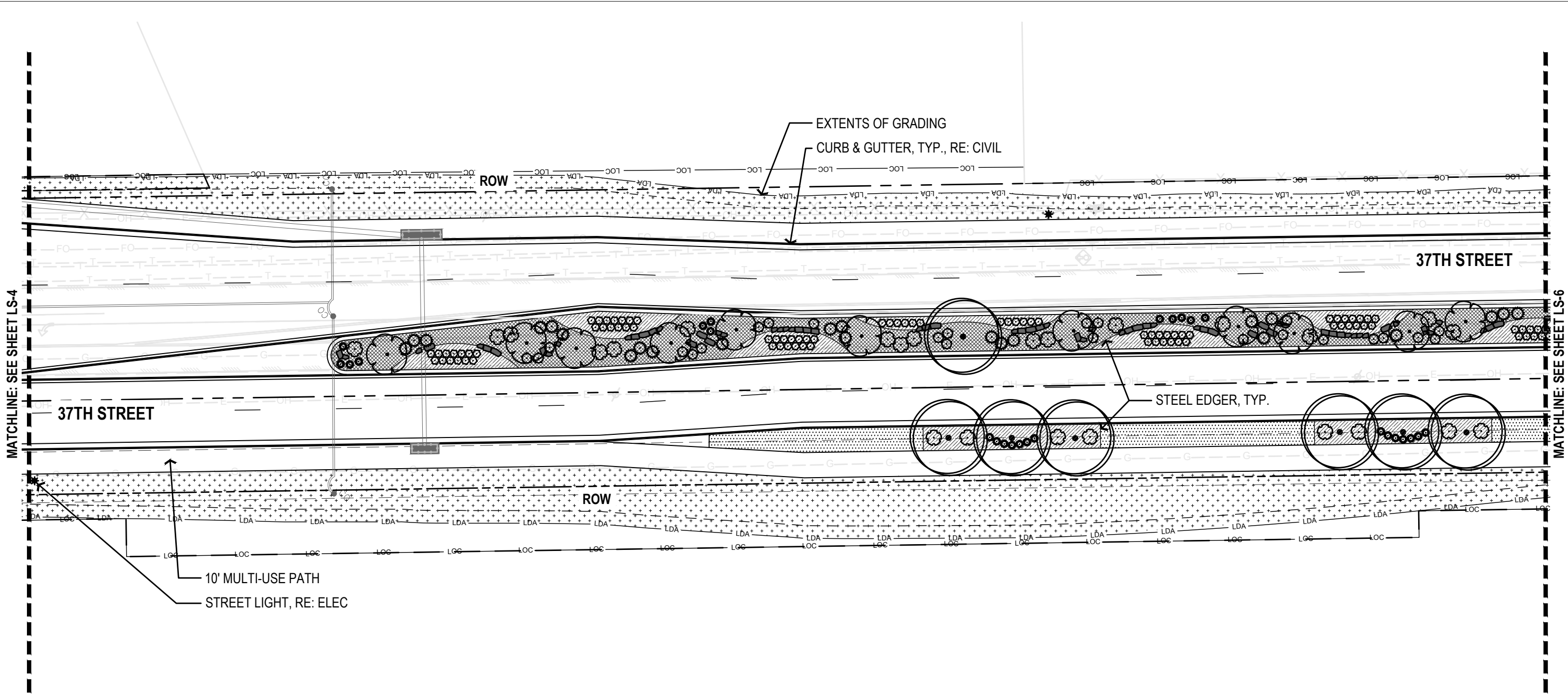


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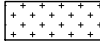





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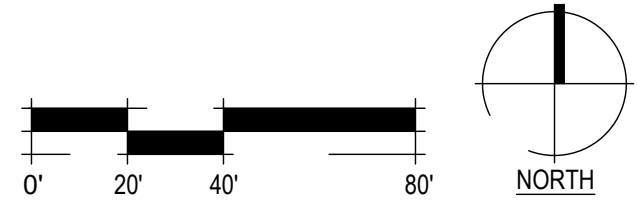
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Revised:	Designer: DE	Structure Numbers	Drawing Number LS-4
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			Sheet Number 104



**LEGEND**

-  TURF: RE: SWMP
-  SEED TYPE 1, RE: SWMP
-  INORGANIC MULCH
-  ORGANIC MULCH
-  A LANDSCAPE BOULDER A
-  B LANDSCAPE BOULDER B
-  C LANDSCAPE BOULDER C

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

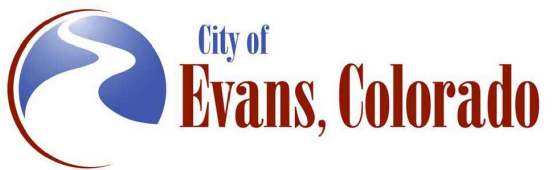


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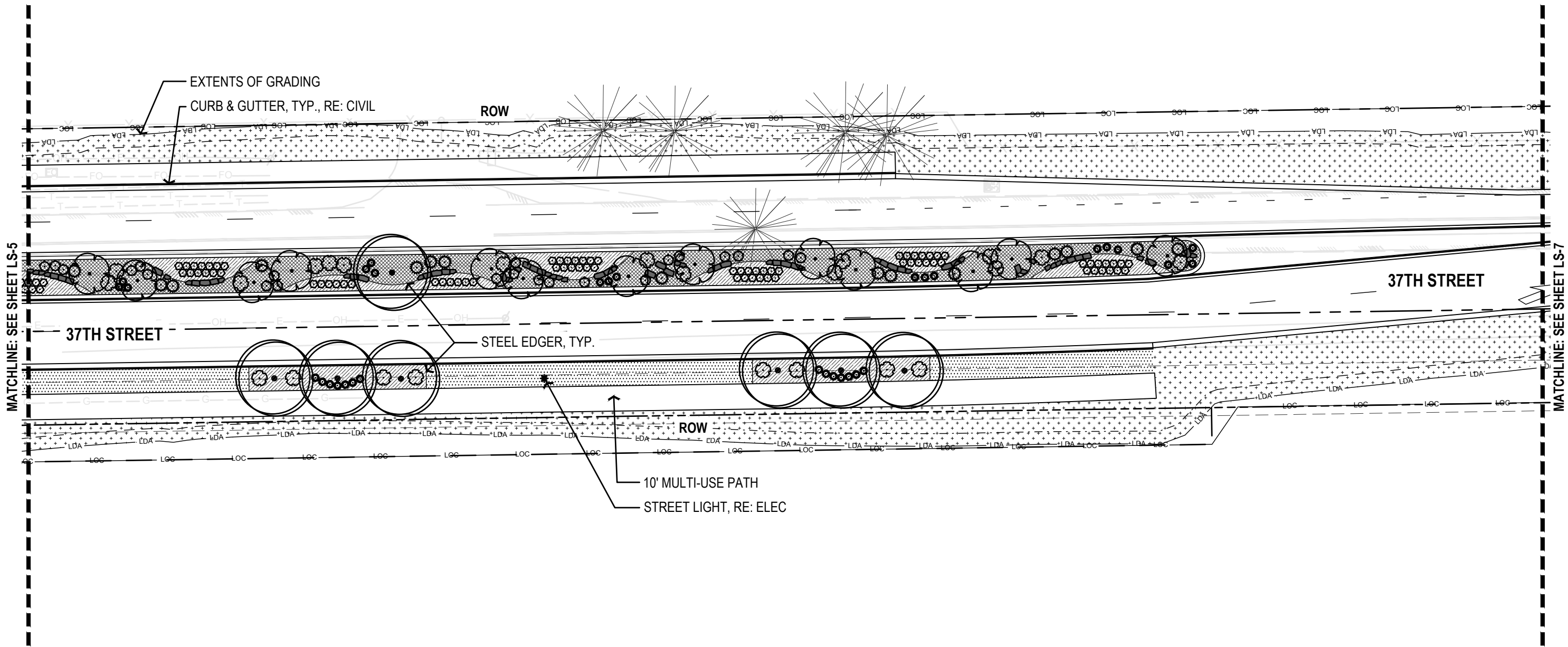
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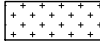





As Constructed
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Designer:	DE	Structure
Detailer:	DE	Numbers
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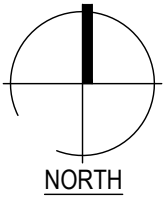
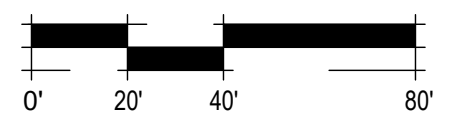
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Drawing Number LS-5
Sheet Number 105



**LEGEND**

-  TURF: RE: SWMP
-  SEED TYPE 1, RE: SWMP
-  INORGANIC MULCH
-  ORGANIC MULCH
-  A LANDSCAPE BOULDER A
-  B LANDSCAPE BOULDER B
-  C LANDSCAPE BOULDER C

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

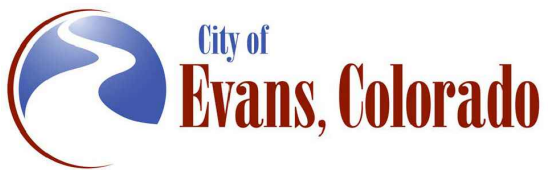


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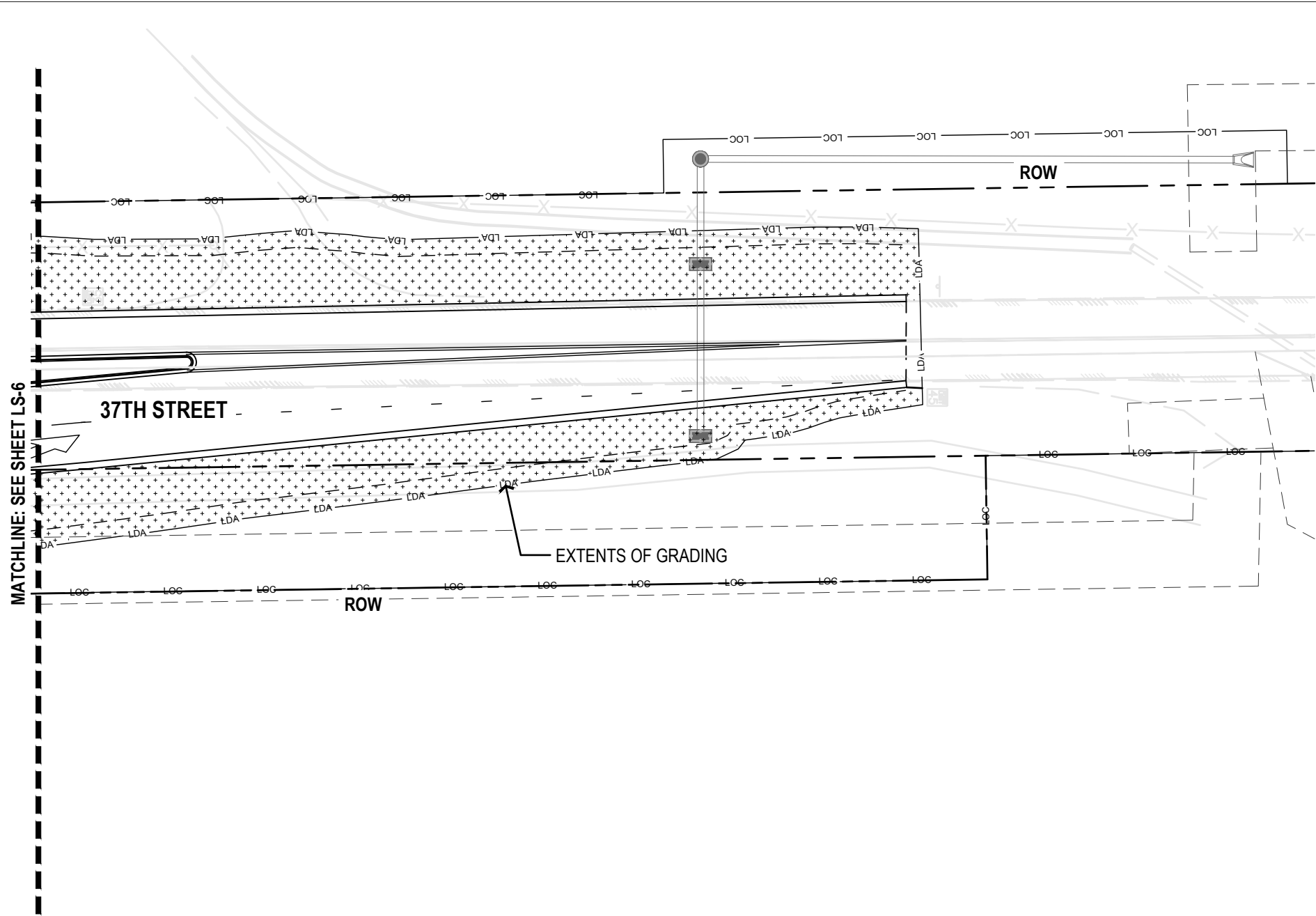


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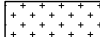





Sheet Revisions		
Date:	Comments	Init.



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	Revised:	Designer: DE	Structure Numbers
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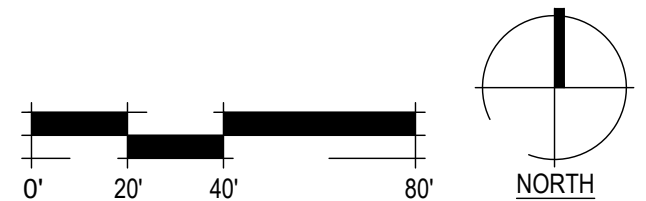


**LEGEND**

-  TURF: RE: SWMP
-  SEED TYPE 1, RE: SWMP
-  INORGANIC MULCH
-  ORGANIC MULCH
-  A LANDSCAPE BOULDER A
-  B LANDSCAPE BOULDER B
-  C LANDSCAPE BOULDER C



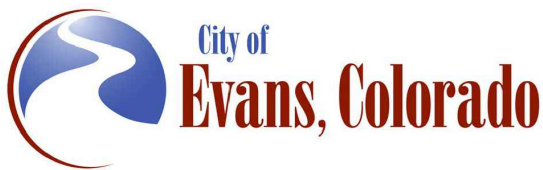
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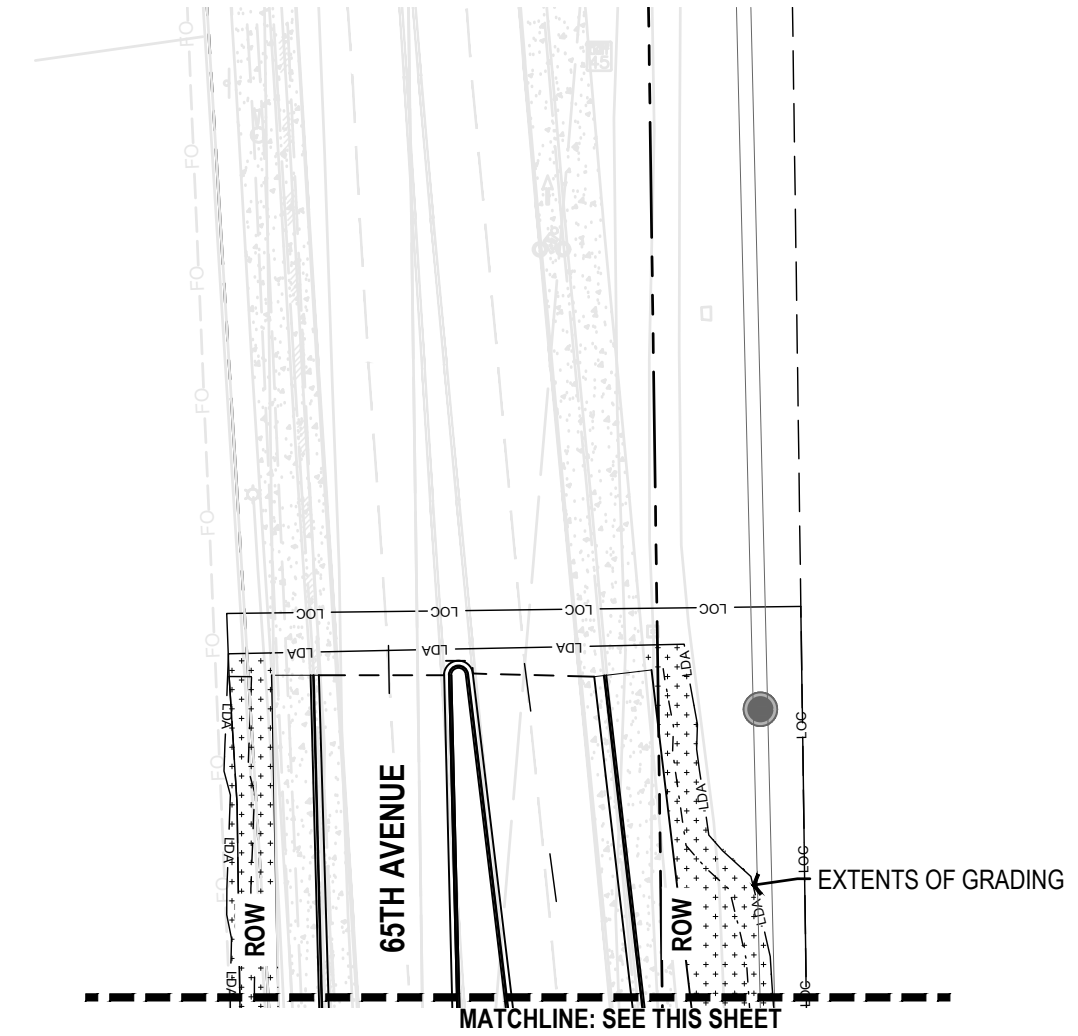
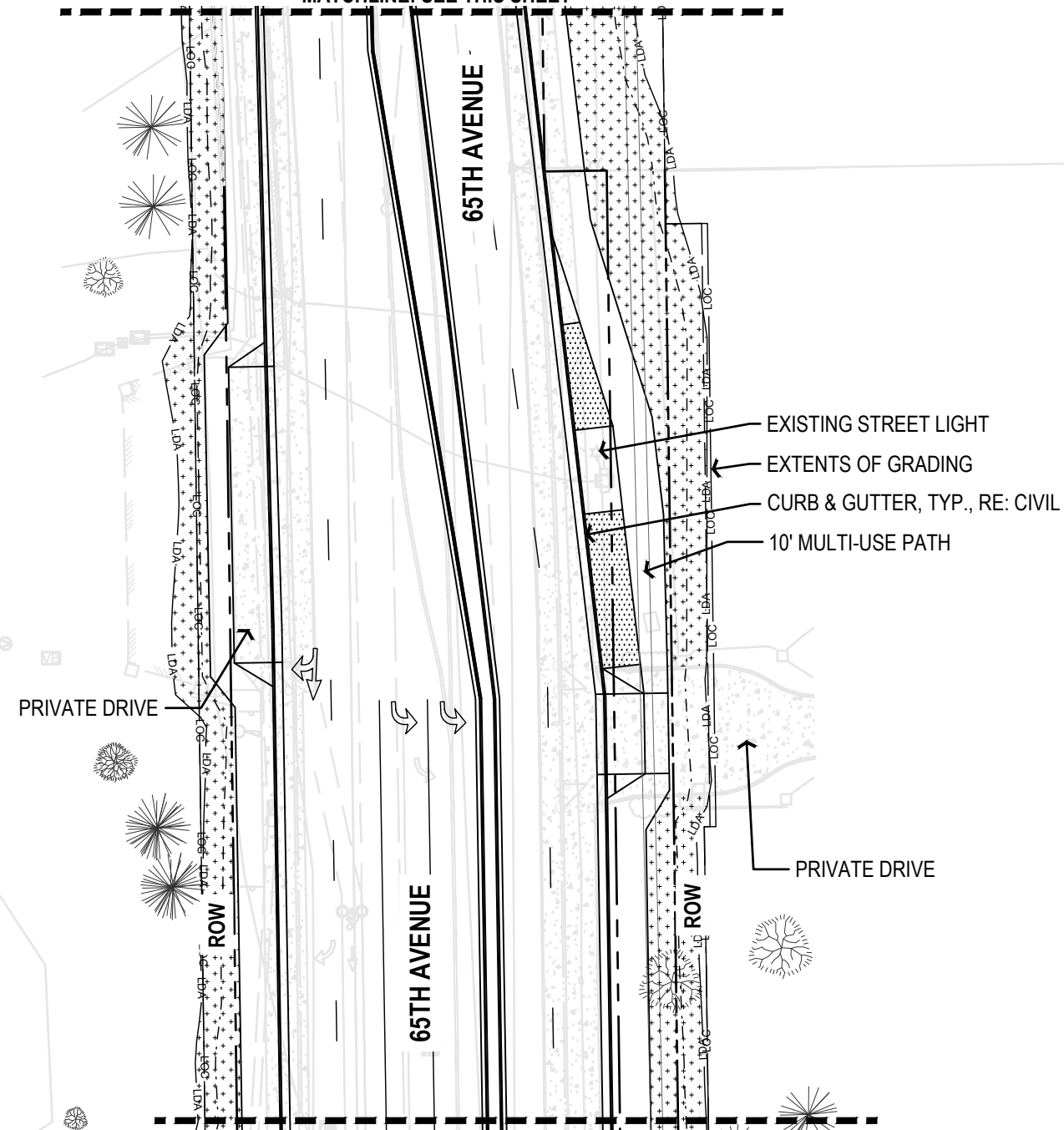
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PRIME CONSULTANT:	SUB CONSULTANT:
 RockSol Consulting Group, Inc.	 bha

Sheet Revisions		
Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN		Project No.
	No Revisions:		AQC M415-021
	Revised:	Designer: DE	Structure Numbers
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		Subset Sheets: 7 of 23	Drawing Number LS-7
			Sheet Number 107

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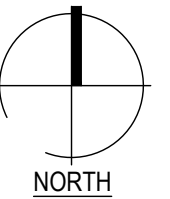
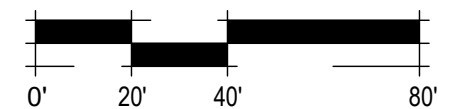


LEGEND

- TURF: RE: SWMP
- SEED TYPE 1, RE: SWMP
- INORGANIC MULCH
- ORGANIC MULCH
- A LANDSCAPE BOULDER A
- B LANDSCAPE BOULDER B
- C LANDSCAPE BOULDER C



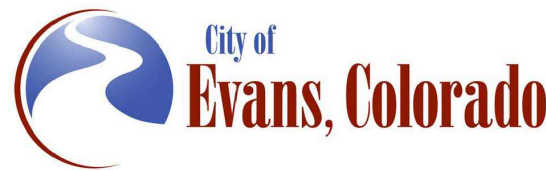
**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN



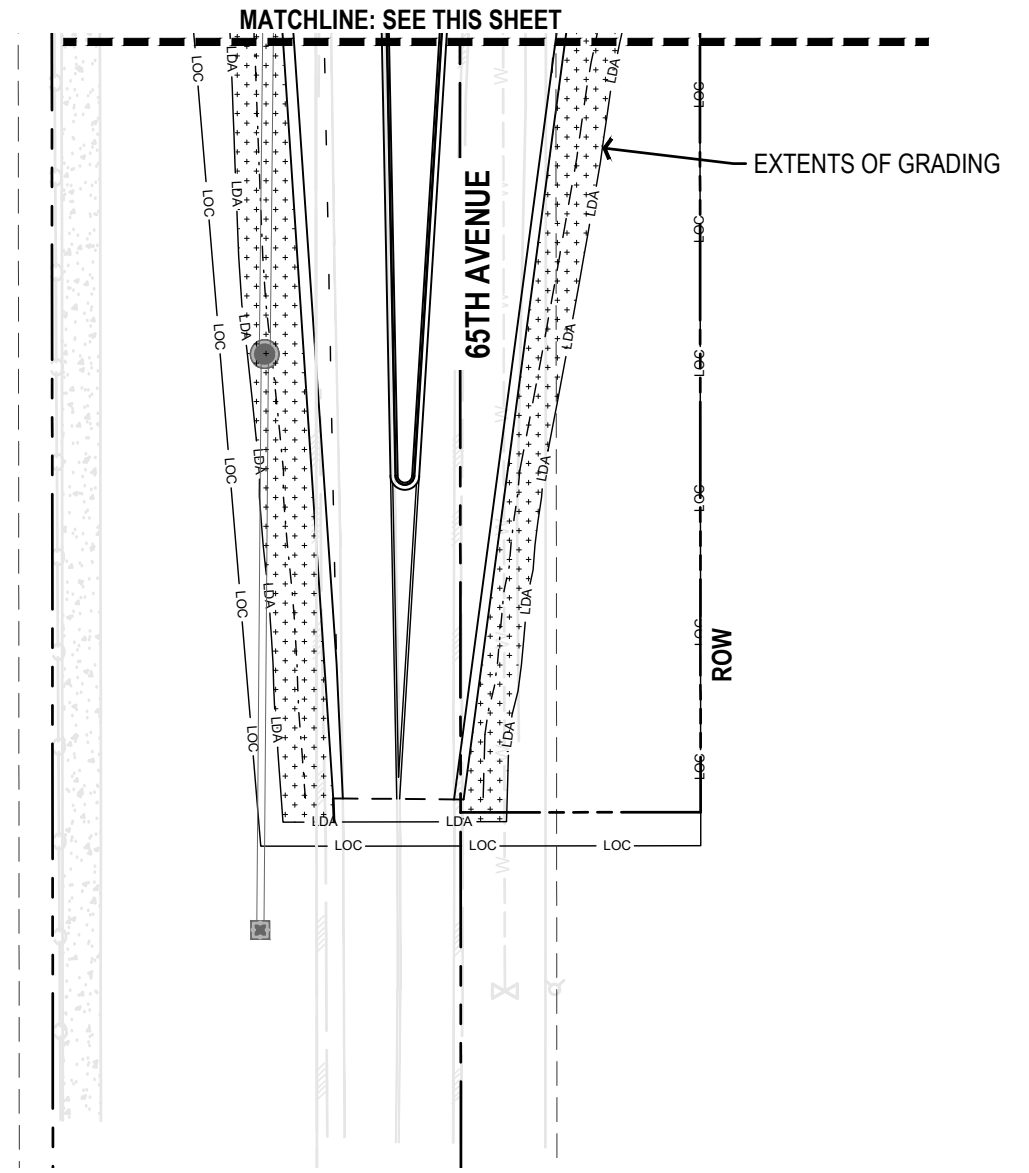
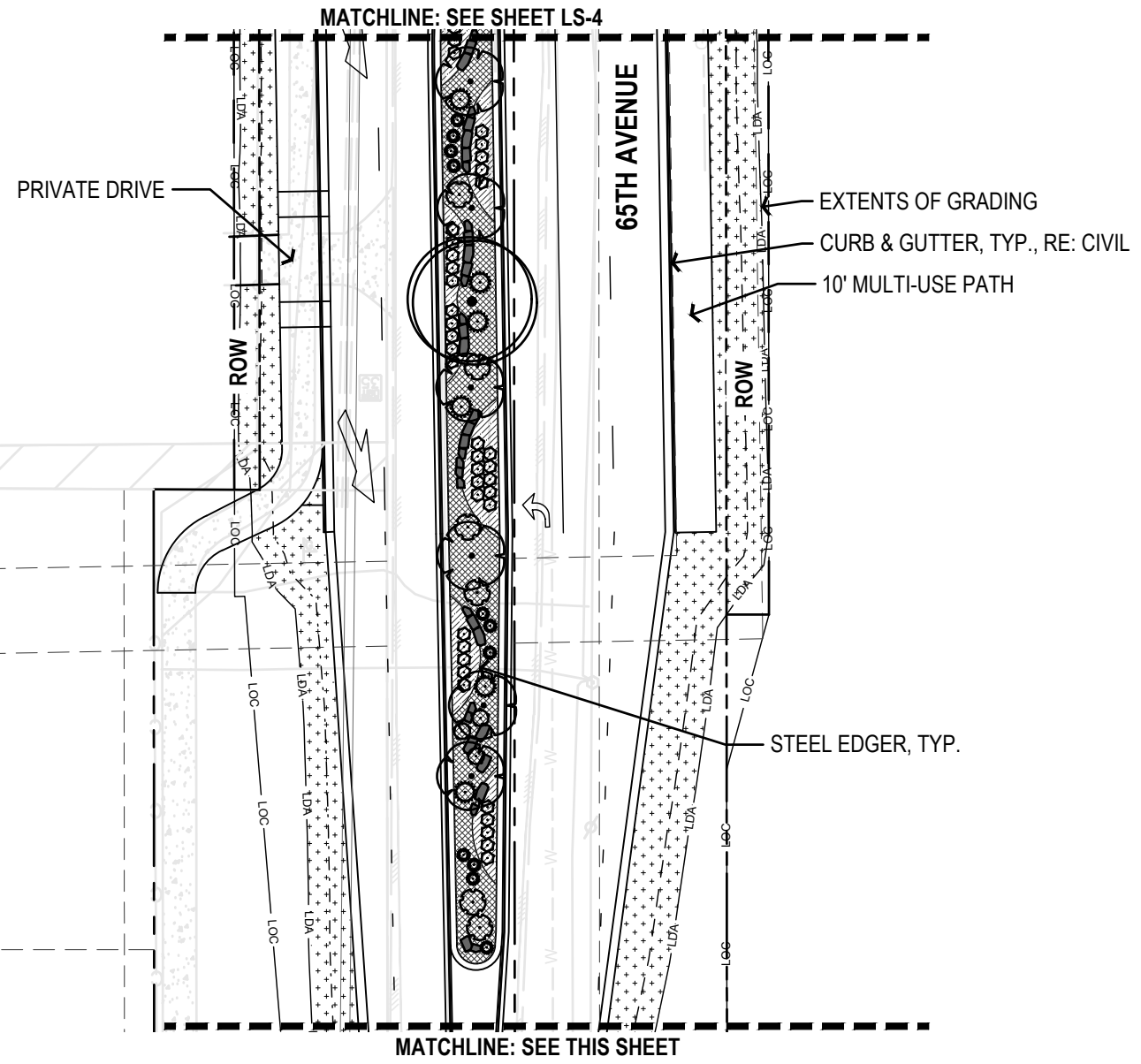
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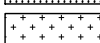
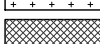




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Date:	Comments	Init.



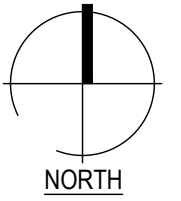
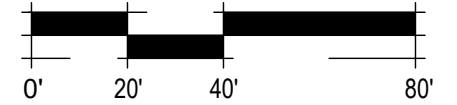
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No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-8
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 8 of 23
			Sheet Number 108



**LEGEND**

-  TURF: RE: SWMP
-  SEED TYPE 1, RE: SWMP
-  INORGANIC MULCH
-  ORGANIC MULCH
-  A LANDSCAPE BOULDER A
-  B LANDSCAPE BOULDER B
-  C LANDSCAPE BOULDER C

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

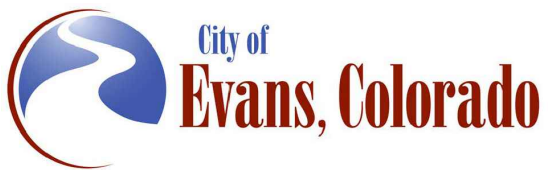


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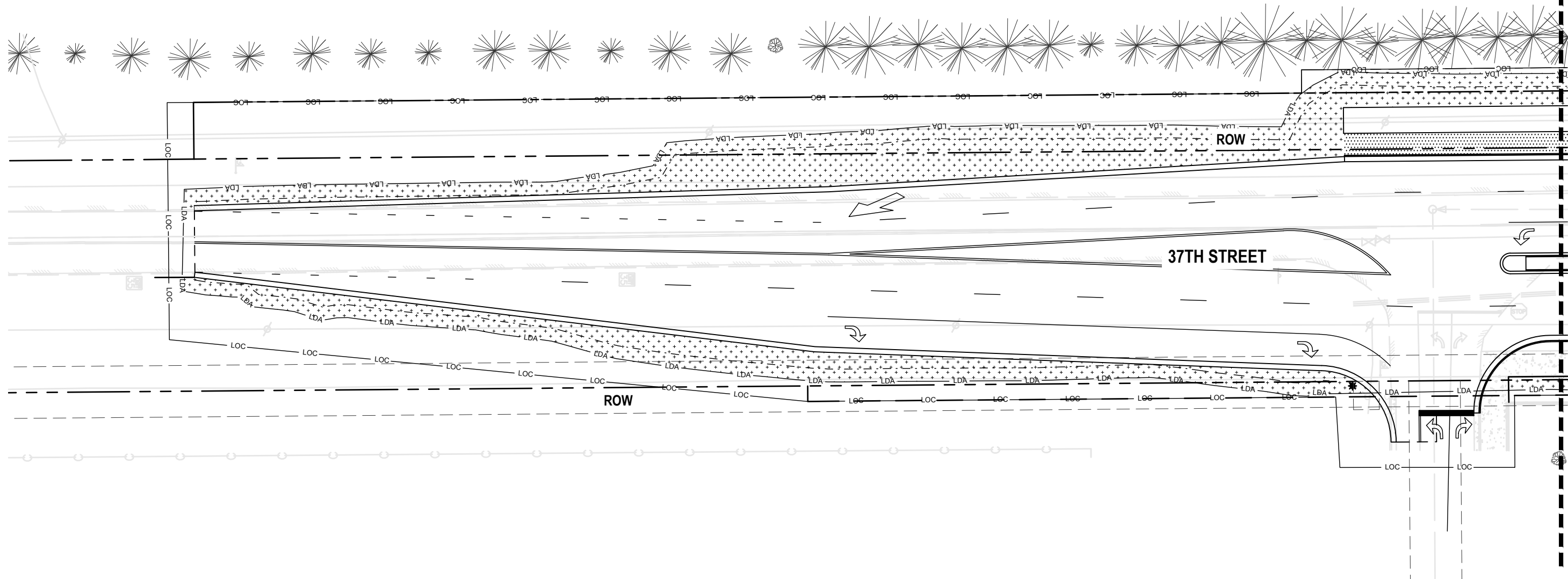


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PRIME CONSULTANT:	SUB CONSULTANT:
 RockSol Consulting Group, Inc.	 bha

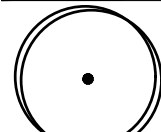





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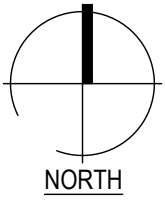
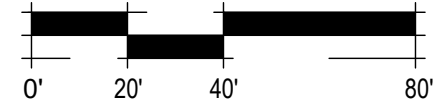
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No Revisions:	Designer: DE	Structure Numbers	Drawing Number LS-9
Revised:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 9 of 23
Void:			Sheet Number 109



**LEGEND**

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN

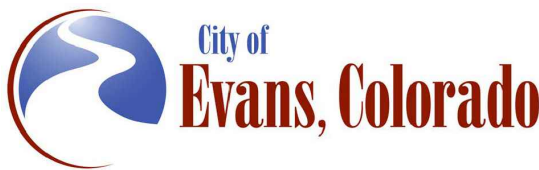


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Print Date: 12-5-2023	File Name: 2122_LANDSCAPE PLAN.DWG
Horiz. Scale: As Noted	Vert. Scale: As Noted
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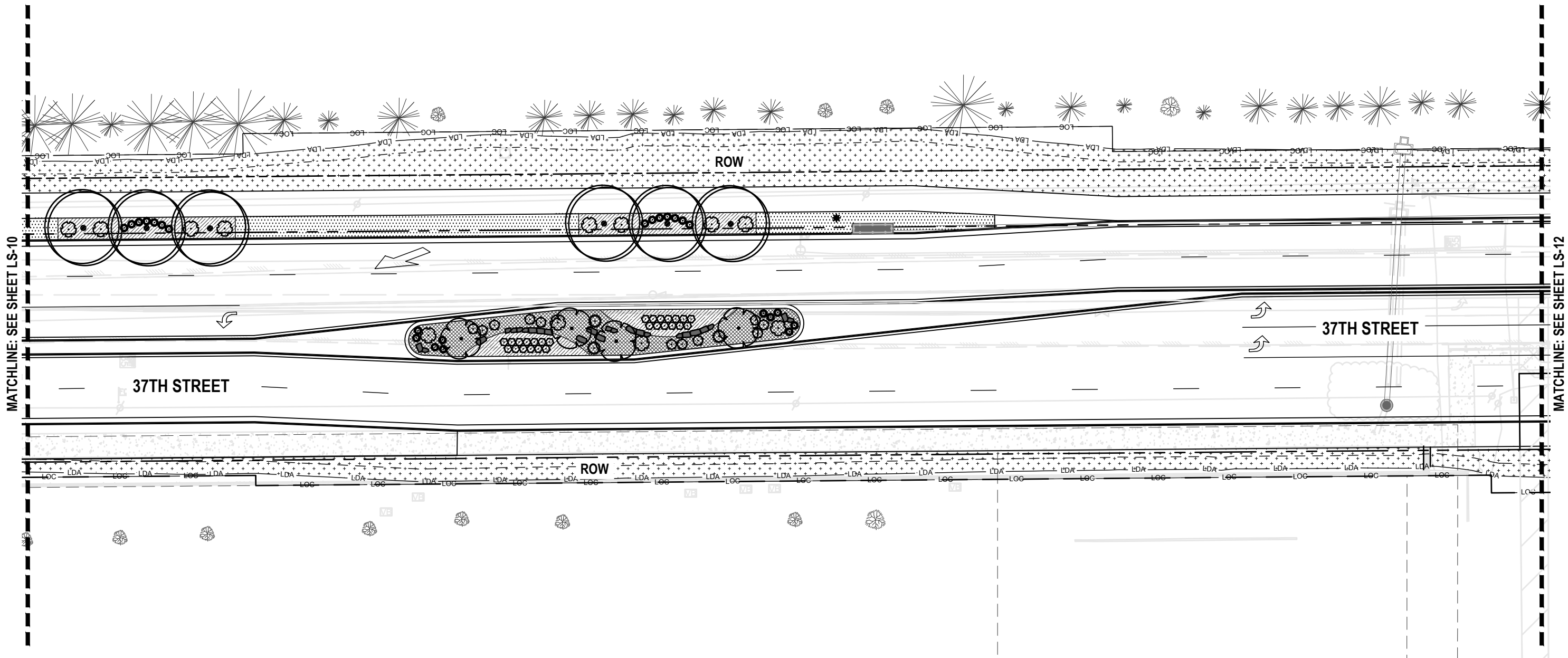
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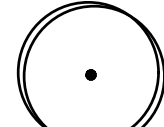





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Revised:	Designer: DE	Structure Numbers	Drawing Number LS-10
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MATCHLINE: SEE SHEET LS-10

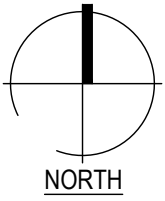
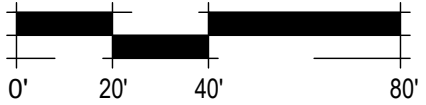
MATCHLINE: SEE SHEET LS-12



**LEGEND**

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL

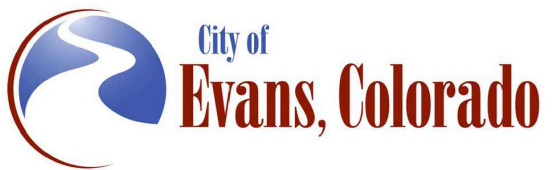
**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN



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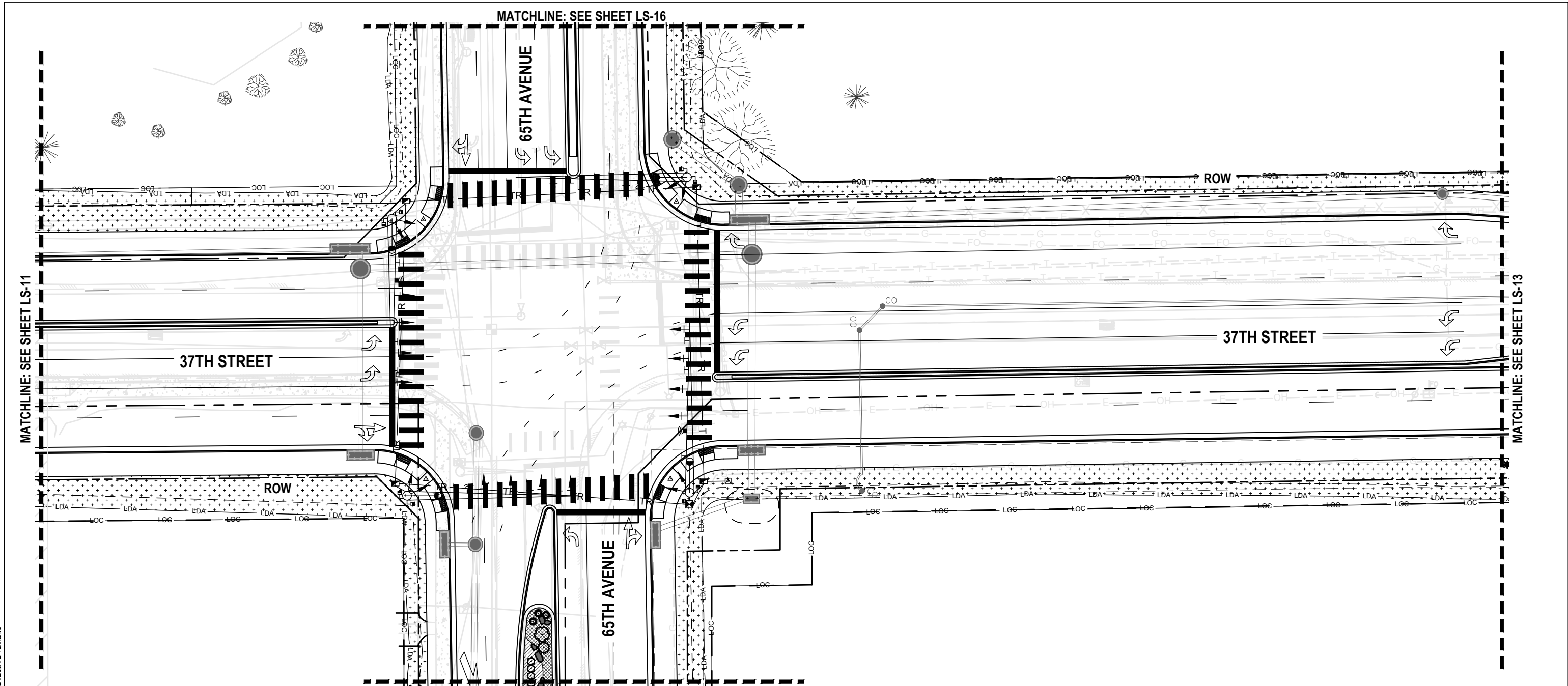
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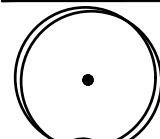




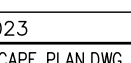
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Revised:
Void:

37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN		
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Sheet Subset: LANDSCAPE	Subset Sheets: 11 of 23	

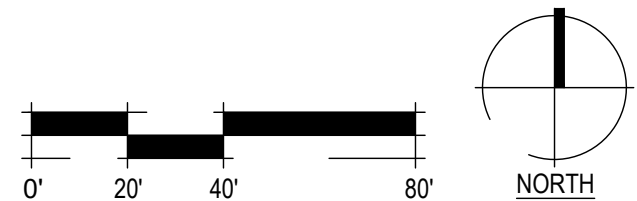
Project No.
AQC M415-021
Drawing Number LS-11
Sheet Number 111



**LEGEND**

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL

**NOTES:**  
 CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN



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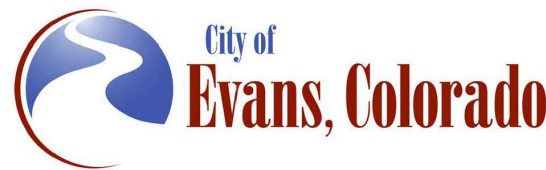


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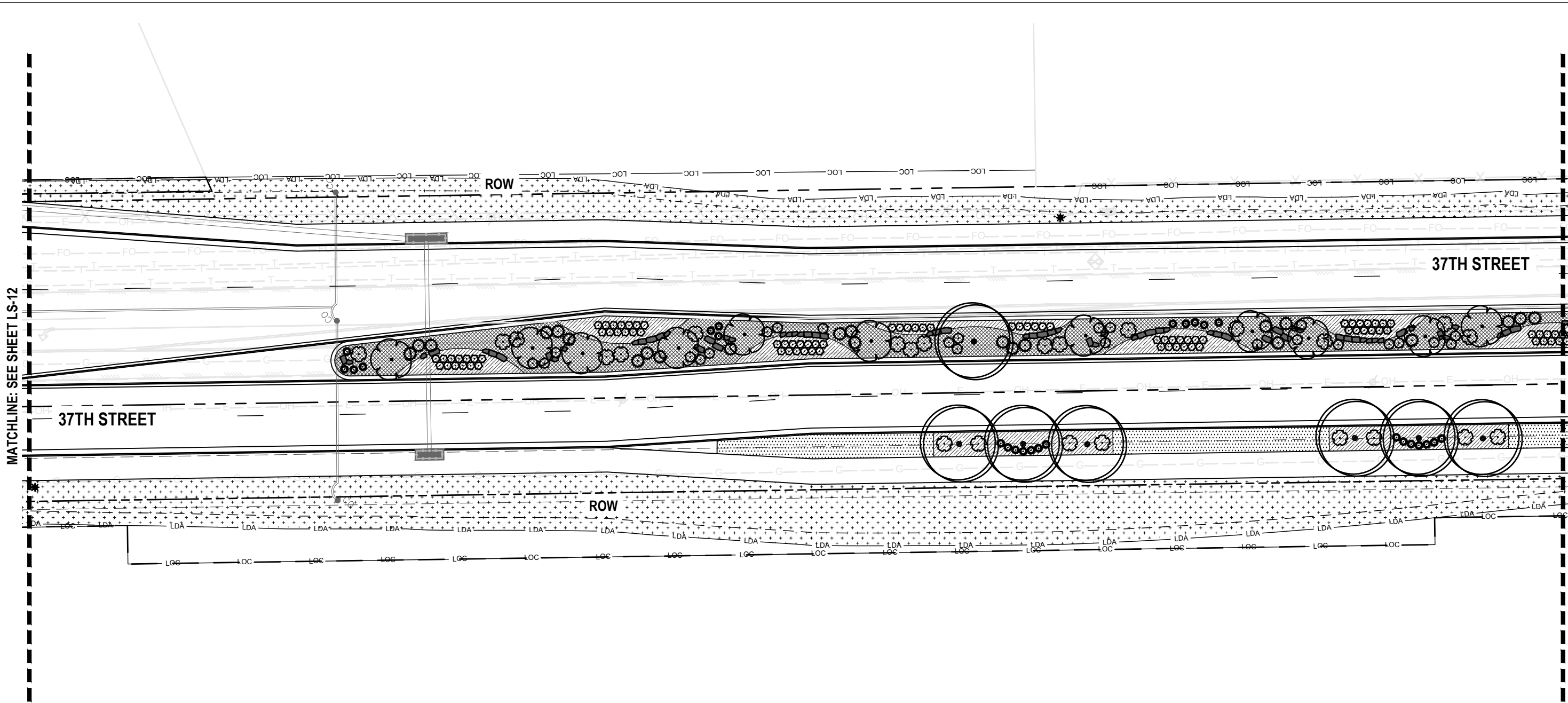
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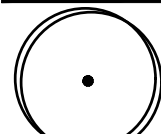


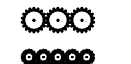

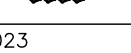
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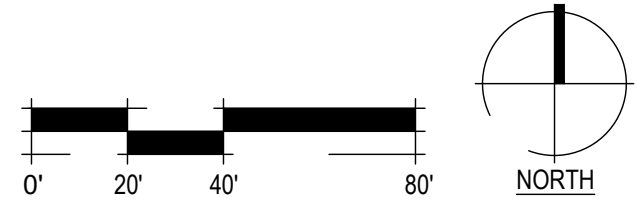
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	Revised:	Designer: DE	Structure Numbers
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Drawing Number LS-12
Subset Sheets: 12 of 23			Sheet Number 112



**LEGEND**

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL

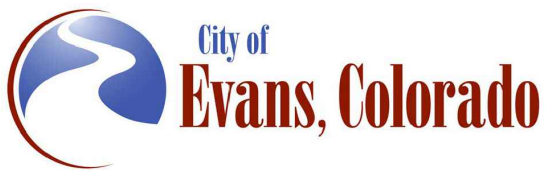
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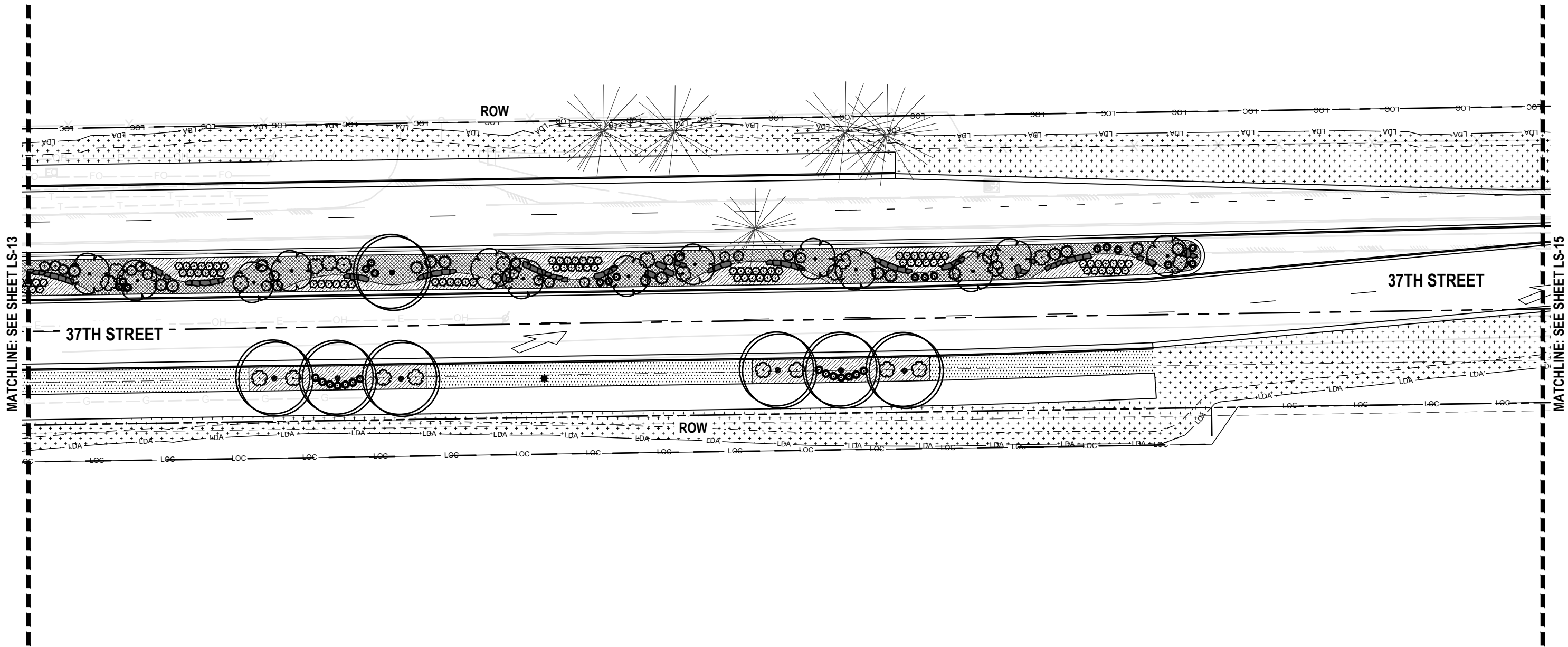
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PRIME CONSULTANT:	SUB CONSULTANT:
 RockSol Consulting Group, Inc.	 bha

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Date:	Comments	Init.



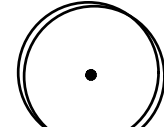





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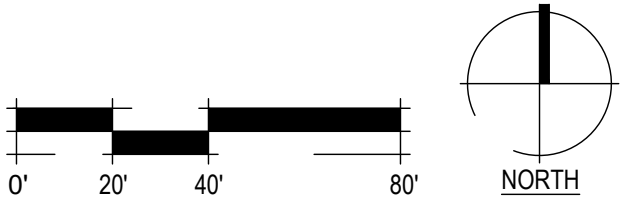
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MATCHLINE: SEE SHEET LS-15

**LEGEND**

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL

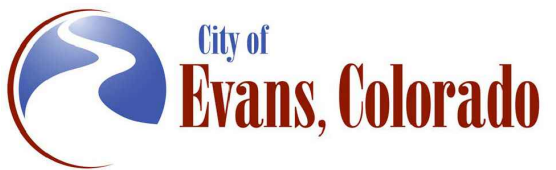
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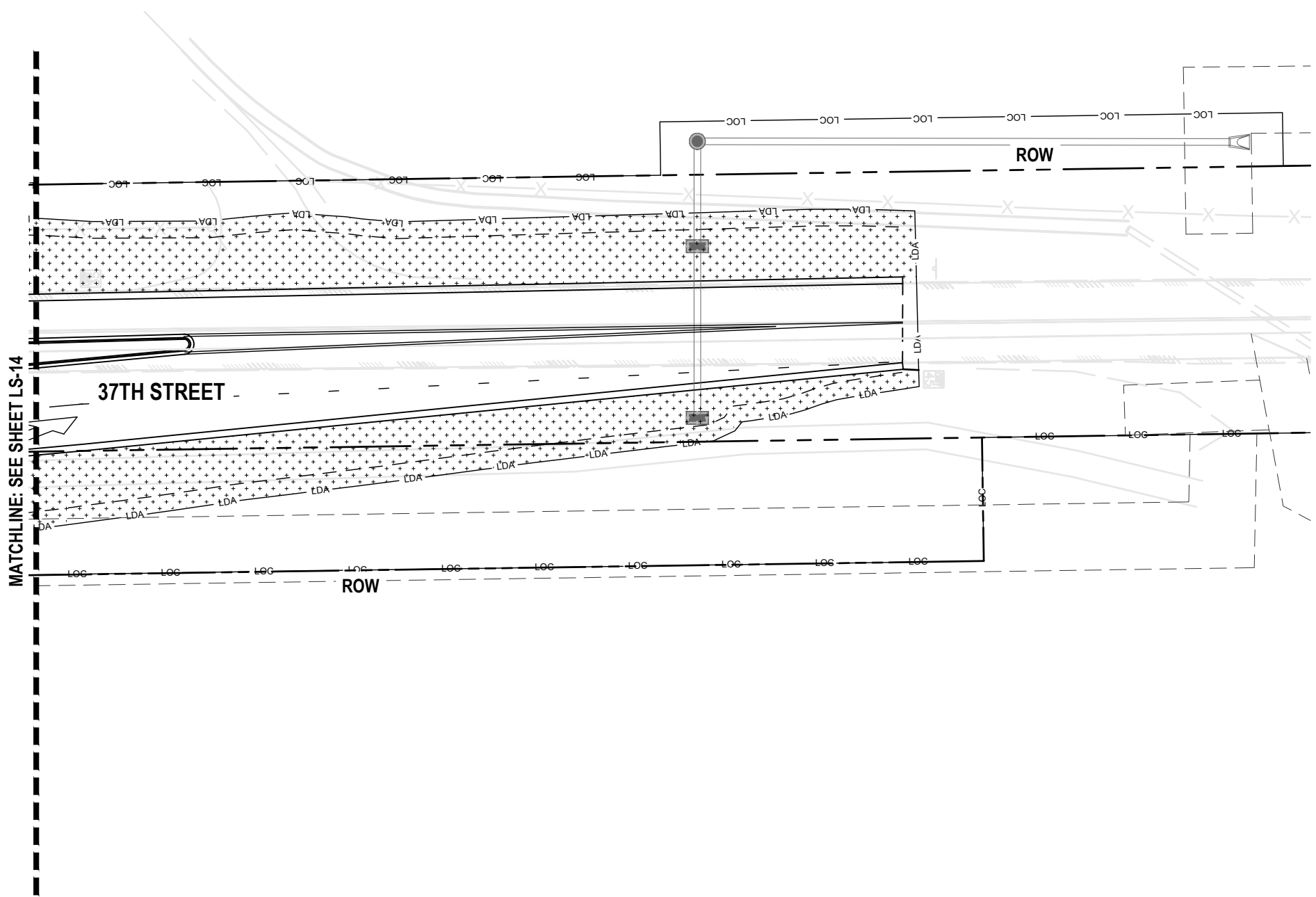
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 RockSol Consulting Group, Inc.	 bha

Sheet Revisions		
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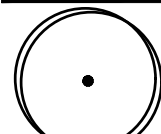


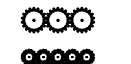

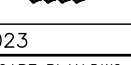


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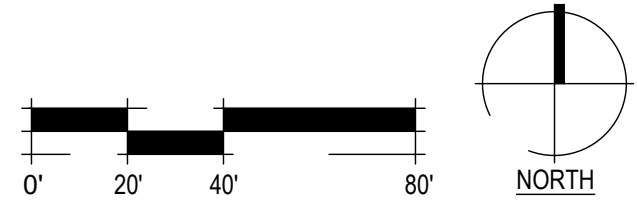


**LEGEND**

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL



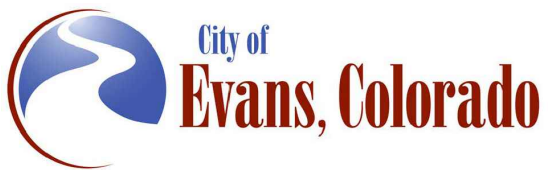
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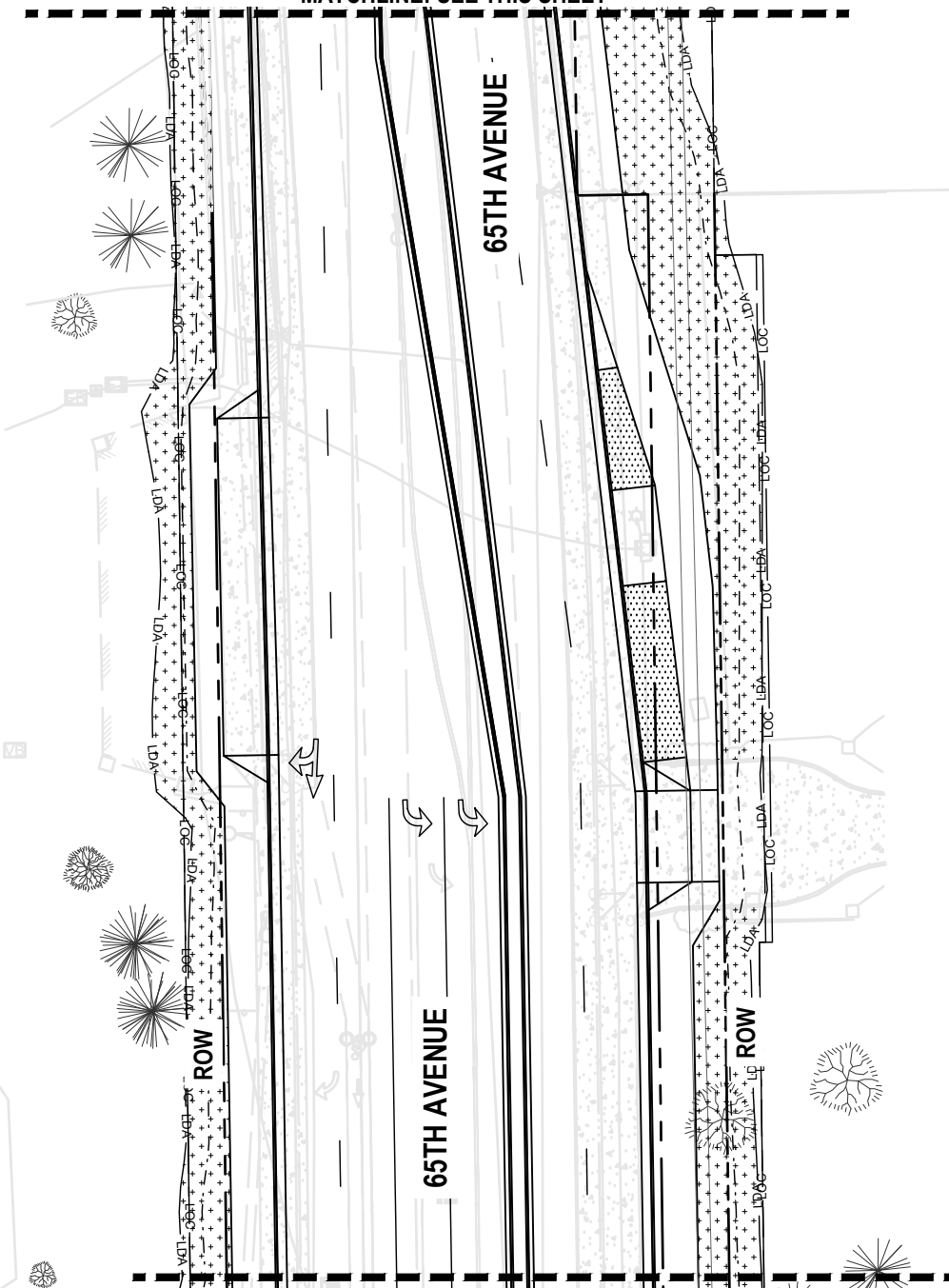
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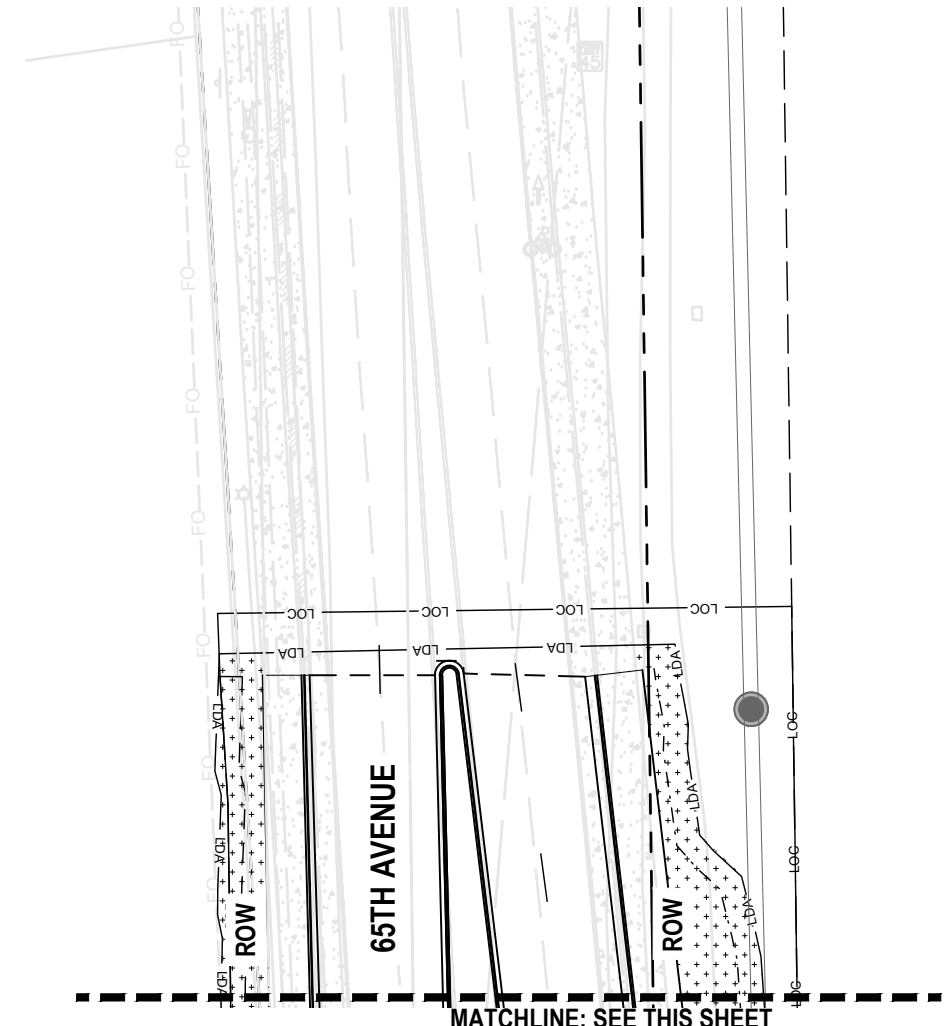
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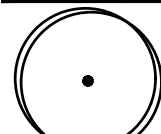




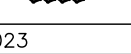


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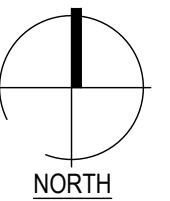
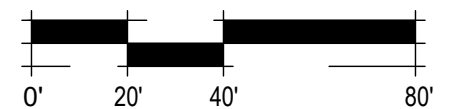
MATCHLINE: SEE THIS SHEET

LEGEND

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL



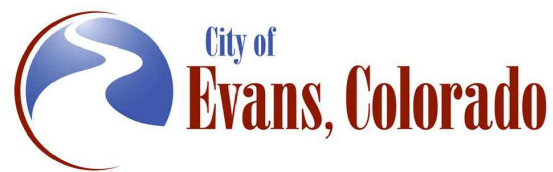
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SUB CONSULTANT: <b>bha</b>

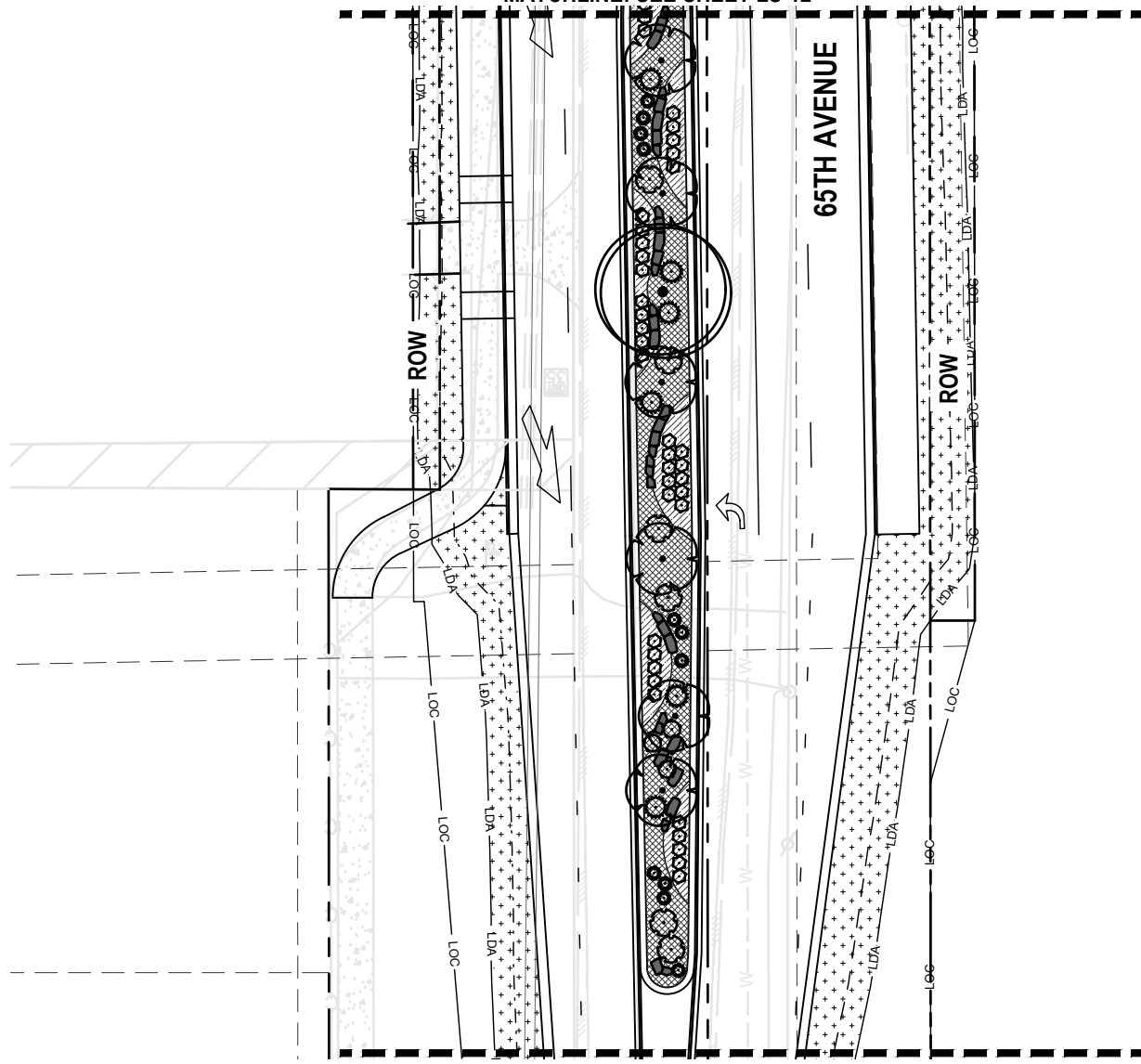


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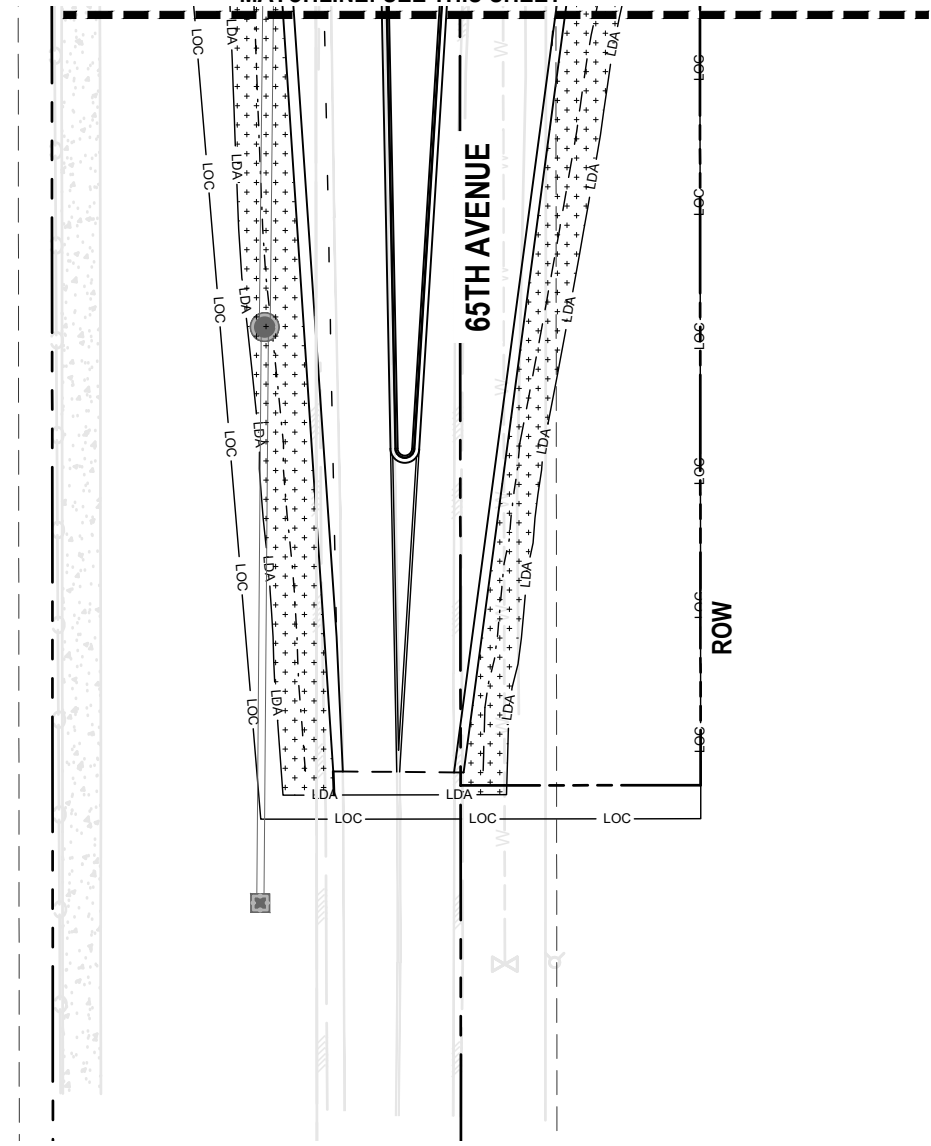


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No Revisions:	Designer: DE	Structure Numbers	Drawing Number LS-16
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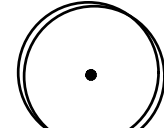





MATCHLINE: SEE SHEET LS-12



MATCHLINE: SEE THIS SHEET

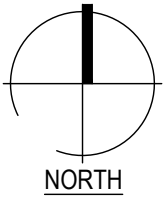
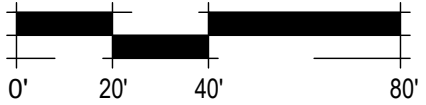


LEGEND

-  DECIDUOUS SHADE TREE
-  ORNAMENTAL TREE
-  DECIDUOUS SHRUB
-  EVERGREEN SHRUB
-  ORNAMENTAL GRASS
-  PERENNIAL



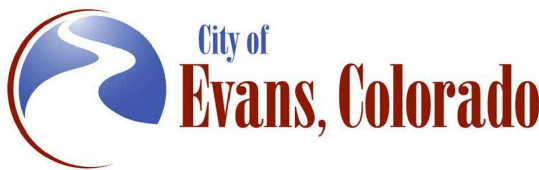
**NOTES:**  
CONTRACTOR RESPONSIBLE FOR RESTORING AREAS AFFECTED BY GRADING OR CONSTRUCTION BEYOND THOSE AREAS INDICATED ON THIS PLAN



Plot Date: 6/27/2024 1:16 PM Plotted By: Doug Elger  
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PRIME CONSULTANT:	SUB CONSULTANT:
 RockSol Consulting Group, Inc.	 bha

Sheet Revisions		
Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN		Project No.
No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-17
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 17 of 23
			Sheet Number 117

# PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	ROOT	QTY	FLOWER COLOR	FLOWER SEASON	SIZE AT MATURITY
<b>SHADE TREES</b>								
CA SP	Catalpa speciosa	Western Catalpa	2" Cal.	B&B	0	White	Summer	50-60't., 30-40' w.
CE OC	Celtis occidentalis	Hackberry	2" Cal.	B&B	0	N/A	N/A	50-60't., 30-40' w.
GY DI	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffeetree	2" Cal.	B&B	0	N/A	N/A	50-60't., 35-45' w.
QU MU	Quercus muehlenbergia	Chinkapin Oak	2" Cal.	B&B	0	NA	NA	50-60't., 35-45' w.
QU MA	Quercus macrocarpa	Bur Oak	2" Cal.	B&B	0	NA	NA	50-60't., 35-45' w.
<b>ORNAMENTAL TREES</b>								
AM GR	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1.5" Cal.	B&B	0	White	Spring	15-20't., 15-20' w.
MA TC	Malus 'Thunderchild'	Thunderchild Crabapple	1.5" Cal.	B&B	0	Pink	Spring	15-20't., 15-20' w.
SY RE	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	1.5" Cal.	B&B	0	White	Spring	15-20't., 15-20' w.
<b>DECIDUOUS SHRUBS</b>								
CA CL	Caryopteris x clandonensis 'Dark Knight'	Dark Knight Spirea	5 Gal.	Cont.	0	Purple	Summer	2-3' t., 2-3' w.
CH NA	Chrysothamnus nauseosus nauseosus	Dwarf Baby Blue Rabbitbrush	5 Gal.	Cont.	0	Yellow	Late Summer	1-2' t., 2-4' w.
CH GR	Chrysothamnus nauseosus graveolens	Tall Green Rabbitbrush	5 Gal.	Cont.	0	Yellow	Late Summer	4-6' t., 4-6' w.
EP MI	Ephedra minima	Dwarf Joint Fir	5 Gal.	Cont.	0	Red Berries	Summer	2-4" t., 2-3' w.
HY CA	Hypericum calycinum	Creeping St. John's Wort	5 Gal.	Cont.	0	Yellow	Spring/Simmer	1-2' t., 2-4' w.
FA PA	Fallugia paradoxa	Apache Plume	5 Gal.	Cont.	0	White/Pink	Summer	3-5' t., 3-5' w.
PH DI	Physocarpus opulifolius Diabolo	Diabolo Ninebark	5 Gal.	Cont.	0	White	Summer	8' t., 8' w.
PH LD	Physocarpus opulifolius Little Devil	Little Devil Ninebark	5 Gal.	Cont.	0	White/pink	Summer	4' t., 4' w.
PO SN	Potentilla fruticosa 'Davurica'	Prairie Snow Potentilla	5 Gal.	Cont.	0	White	Summer	1-2' t., 3-6' w.
PR PB	Prunus besseyi 'Pawnee Buttes'	Creeping Western Sandcherry	5 Gal.	Cont.	0	White	Spring	1-2' t., 6' w.
<b>EVERGREEN SHRUBS</b>								
PI SM	Picea pungens 'St. Mary's Broom'	St. Mary's Blue Spruce	5 Gal.	Cont.	0	-	-	18-24" t., 3-4' w.
PI HE	Pinus nigra 'Helga'	Dwarf Austrian Pine	5 Gal.	Cont.	0	-	-	4-6' t., 4-6' w.
<b>ORNAMENTAL GRASSES</b>								
BO GR	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Grama Grass	1 Gal.	Cont.	0	Blonde	Summer-Fall	3' t., 2' w.
MU RE	Muhlenbergia reverchonii 'Ruby Muhly'	Undaunted Ruby Muhly Grass	1 Gal.	Cont.	0	Ruby	Late Summer	15-30" t., 18-24" w.
SP HE	Sporobolus heterolepis	Prairie Dropseed	1 Gal.	Cont.	0	Golden Orange Fall		18-24" t. 15-20" w.
<b>PERENNIALS, GROUNDCOVERS</b>								
AR FR	Artemisia frigida	Fringed Sage	1 Gal.	Cont.	0	Yellow	Late Summer	12" t., 24" w.
CE PL	Ceratostigma plumbaginoides	Plumbago	4" Pot	Cont.	0	Blue	Mid-Late Summer	12" t., 24" w.
GE RO	Geranium 'Gerwat' rozanne	Blue Cranesbill	1 Gal.	Cont.	0	Blue/Purple	Spring-Fall	18-20" t., 36" w.
OE MA	Oenothera macrocarpa	Missouri Evening Primrose	1 Gal.	Cont.	0	Lemon Yellow	Mid-Summer	12" t., 24" w.
ZA GA	Zauschneria garrettii 'PWWG01S'	Org. Carpet Hummingbird Mint	1 Gal.	Cont.	0	Orange	Summer-Fall	8" t., 18" w.

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Sheet Revisions		
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As Constructed	37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN		Project No.
No Revisions:			AQC M415-021
Revised:	Designer: DE	Structure Numbers	Drawing Number LS-18
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 18 of 23
			Sheet Number 118

# LANDSCAPE NOTES

- REFERENCE THE SWMP DRAWINGS FOR ADDITIONAL INFORMATION ON SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING, AS WELL AS CITY OF EVANS STANDARDS.
- AREAS DISTURBED BY CONSTRUCTION OUTSIDE LIMIT OF WORK LINE SHALL BE REGRADED AND SEEDED WITH TYPE 2 SEED. AREAS CALLED OUT AS TYPE 2 SEED SHALL BE SEEDED WITH TYPE 2 SEED (BELOW).

TYPE 2 SEED SHORT GRASS MIX: (SEED MUST BE APPLIED WITH DRILL SEEDER @ RATE OF 11+ LBS. PLS. PER ACRE. IF BROADCAST, APPROVED BY THE CITY OF EVANS ONLY, APPLY @ A RATE OF 22+ LBS. PLS. PER ACRE.)

- (10%) SAND DROPSEED
- (27%) BLUE GRAMMA
- (26%) LITTLE BLUESTEM
- (27%) SIDEOATS GRAMA
- (10%) SAND LOVEGRASS

- DECIDUOUS TREES SHALL BE SINGLE-STEM TREES WITH STRAIGHT TRUNK, WELL BALANCED CROWN, AND INTACT LEADER, OF HEIGHT AND CALIPER INDICATED IN PLANT LIST, COMPLYING WITH ANSI Z60.1 FOR TYPE OF TREES REQUIRED. TREES SHALL BE BALLED AND BURLAPPED WITH BRANCHING HEIGHT ONE-THIRD TO ONE-HALF OF TREE HEIGHT.
- ORNAMENTAL DECIDUOUS TREES SHALL BE BRANCHED OR PRUNED NATURALLY ACCORDING TO SPECIES AND TYPE, OF CALIPER AND HEIGHT INDICATED IN PLANT LIST, AND BRANCHING ACCORDING TO ANSI Z60.1. STEM FORM SHALL BE SINGLE TRUNK AND ALL TREES SHALL BE BALLED AND BURLAPPED.
- GRADE PLANTING BEDS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISHED GRADES.

## 6. MEDIAN AREAS

- PLANTING AREAS (SHRUBS, PERENNIALS, ORNAMENTAL GRASSES) SHALL BE AMENDED WITH CITY OF EVANS APPROVED COMPOST AT A RATE OF 4 CUBIC YARDS PER 1,000 S.F. SOIL AMENDMENT SHALL BE INCORPORATED EVENLY INTO THE TOP 6 INCHES OF SOIL.
- MEDIAN AREAS SHALL BE MULCHED WITH 4 INCH DEEP SHREDDED CEDAR MULCH AND ROCK MULCH REFERENCE MULCH AND BOULDER PLANS FOR LOCATIONS.

## 7. INSPECTIONS

### 7.A. SITE INSPECTION

- CONTRACTOR WILL INSPECT EXISTING SITE CONDITIONS AND NOTE IRREGULARITIES AFFECTING THE WORK OF THIS SECTION. VERIFY THAT GRADING OPERATIONS HAVE BEEN SATISFACTORILY COMPLETED AND THAT TOPSOIL OF ADEQUATE QUANTITY AND QUALITY HAS BEEN PLACED IN AREAS AS SPECIFIED. VERIFY THAT THE AREAS TO BE REVEGETATED ARE PROTECTED FROM CONCENTRATED RUNOFF AND SEDIMENT FROM ADJACENT AREAS. NOTE PREVIOUS TREATMENTS TO THE AREAS SUCH AS TEMPORARY TYPE 2 SEED OR MULCHING AND DISCUSS WITH THE CITY OF EVANS OR ENGINEER HOW THESE TREATMENTS WILL AFFECT PERMANENT VEGETATION. REPORT IRREGULARITIES AFFECTING WORK OF THIS SECTION TO THE CITY OF EVANS OR ENGINEER BEFORE INITIATING WORK. WHEN THE CONTRACTOR BEGINS WORK UNDER THIS SECTION, IT IMPLIES ACCEPTANCE OF EXISTING CONDITIONS.
- CONTRACTOR SHALL NOTIFY THE CITY OF EVANS OR ENGINEER PRIOR TO START OF WORK. THE CITY OF EVANS OR ENGINEER WILL BE RESPONSIBLE TO MONITOR THE WORK.

### 7.B. PRE-PLANTING INSPECTIONS:

- PLANT MATERIAL SHALL BE INSPECTED BY THE CITY OF EVANS OR ENGINEER, BEFORE PLANTING. INSPECTION OF MATERIALS MAY BE SEQUENCED BY MAJOR PLANTING AREAS TO ACCOMMODATE EFFICIENT PLANTING OPERATIONS. PLANTS FOR INSPECTION MUST BE IN A SINGLE LOCATION PREFERABLY ON THE PROJECT SITE. REJECTED MATERIALS MUST BE REMOVED FROM THE SITE, REPLACED AND REINSPECTED BEFORE PLANTING. IF THE SUPPLIER IS A LOCAL NURSERY, TAGGED PLANTS MAY BE INSPECTED AT THE NURSERY. PHOTOGRAPHS OF THE PLANT MATERIALS TO BE OBTAINED FROM NON-LOCAL SOURCES MAY BE SUBMITTED TO THE CITY OF EVANS OR ENGINEER FOR PRELIMINARY INSPECTION. THIS PRELIMINARY INSPECTION IS SUBJECT TO FINAL APPROVAL OF PLANTS AT THE JOB SITE. THE OWNER RESERVES THE RIGHT TO REJECT PLANT MATERIAL AT ANY STAGE OF CONSTRUCTION OR WARRANTY PERIOD.

### 7.C. TYPE 1 SEED SHALL CONSIST OF THE FOLLOWING:

- 60% BUFFALO GRASS
- 40% BLUE GRAMMA GRASS

- SOIL AMENDMENTS, BACKFILL MIXES AND MULCHES WILL BE INSPECTED AT THE SITE BY THE THE CITY OF EVANS OR ENGINEER BEFORE THEY ARE USED IN PLANTING OPERATIONS. OBTAIN THE CITY OF EVANS OR ENGINEER'S REVIEW OF STAKED LOCATIONS OF TREES BEFORE DIGGING FOR THOSE PLANTS OCCURS. OBTAIN THE CITY OF EVANS OR ENGINEER'S REVIEW OF THE LOCATION OF SHRUBS IN THEIR CONTAINERS AT THE PROPOSED LOCATIONS BEFORE DIGGING COMMENCES. CONTACT THE CITY OF EVANS OR ENGINEER AT LEAST TWO DAYS IN ADVANCE.

## 10. SUBSTANTIAL COMPLETION INSPECTION:

- AS SOON AS PLANTING IS COMPLETED, A REVIEW AND PRELIMINARY INSPECTION TO DETERMINE THE CONDITION OF THE VEGETATION WILL BE HELD BY THE CITY OF EVANS OR ENGINEER UPON REQUEST BY THE CONTRACTOR.
- THE INSPECTION WILL OCCUR ONLY AFTER THE FOLLOWING CONDITIONS HAVE BEEN MET:
  - LANDSCAPE AREAS WILL BE FREE OF WEEDS AND NEATLY CULTIVATED;
  - PLANT BASINS SHALL BE IN GOOD REPAIR;
  - IRRIGATION SYSTEMS SHALL BE FULLY OPERATIONAL WITH HEADS PROPERLY ADJUSTED;
  - DEBRIS AND LITTER SHALL BE CLEANED UP AND WALKWAYS AND CURBS SHALL BE CLEANED OF SOIL AND DEBRIS LEFT FROM PLANTING OPERATIONS.
- IF, AFTER THE INSPECTION, THE CITY OF EVANS OR ENGINEER IS OF THE OPINION THAT THE WORK HAS BEEN PERFORMED AS PER THE CONTRACT DOCUMENTS, AND THAT THE VEGETATION IS IN SATISFACTORY GROWING CONDITION, HE WILL GIVE THE CONTRACTOR WRITTEN NOTICE OF ACCEPTANCE AND THE WARRANTY PERIOD SHALL BEGIN.
- WORK REQUIRING CORRECTIVE ACTION IN THE JUDGMENT OF THE CITY OF EVANS OR ENGINEER SHALL BE PERFORMED WITHIN THE FIRST TEN (10) DAYS OF THE WARRANTY PERIOD. WORK NOT PERFORMED WITHIN THIS TIME WILL REQUIRE AN EQUIVALENT EXTENSION OF THE WARRANTY PERIOD. CORRECTIVE WORK AND MATERIALS REPLACEMENT SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ON OCCASION COLD WEATHER MAY PRECLUDE THE OPPORTUNITY TO REPLACE DEAD PLANTS, OR THE CONTRACTOR MAY REQUEST REPLACEMENT TO BE DELAYED TO THE FOLLOWING SPRING. THE CITY OF EVANS OR ENGINEER MAY GRANT THIS EXTENSION. IN THE EVENT AN EXTENSION IS GRANTED, THE REPLACEMENT PLANTS SHALL BE INSTALLED NO LATER THAN MAY 15TH, AND THE WARRANTY SHALL BE EXTENDED TO NOVEMBER 15TH OF THE SAME YEAR (ONE GROWING SEASON).
- FINAL APPROVAL AND SUBSTANTIAL COMPLETION NOTICE WILL BE GIVEN WHEN ALL DEFICIENCIES ARE CORRECTED.

## 15. WARRANTY:

- SPECIAL WARRANTY: INSTALLER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD.
  - FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
    - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
    - STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
    - FAULTY OPERATION OF TREE STABILIZATION.
    - DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
  - WARRANTY PERIODS FROM DATE OF SUBSTANTIAL COMPLETION:
    - TREES, SHRUBS, ORNAMENTAL GRASSES, AND PERENNIALS: ONE YEAR.
  - INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:
    - REMOVE DEAD EXTERIOR PLANTS IMMEDIATELY. REPLACE IMMEDIATELY UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.
    - REPLACE EXTERIOR PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.
    - PROVIDE EXTENDED WARRANTY FOR REPLACED PLANT MATERIALS; WARRANTY PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD.

## 16. MAINTENANCE SERVICE

- INITIAL MAINTENANCE SERVICE FOR EXTERIOR PLANTS: PROVIDE FULL MAINTENANCE BY SKILLED EMPLOYEES OF LANDSCAPE INSTALLER. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL FINAL ACCEPTANCE BY OWNER.

## 17. TREE AND SHRUB MAINTENANCE:

- MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, ADJUSTING AND REPAIRING STAKES AND GUY SUPPORTS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. RESTORE OR REPLACE DAMAGED TREE WRAPPINGS.

## 18. LAWN MAINTENANCE:

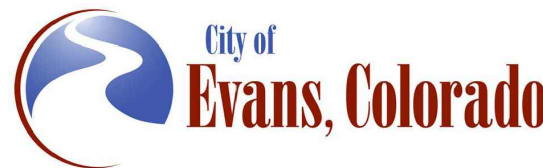
- MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH AND ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.
- WATERING:
  - PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
  - SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF TYPE 1 SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.
  - WATER LAWN WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.
- MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 1/3 OF GRASS HEIGHT. REMOVE NO MORE THAN 1/3 OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN A 2-3 INCH GRASS HEIGHT.
- LAWN POSTFERTILIZATION:
  - APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY.

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No Revisions:			AQC M415-021
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Void:	Detailer: DE	Numbers	Sheet Number 119
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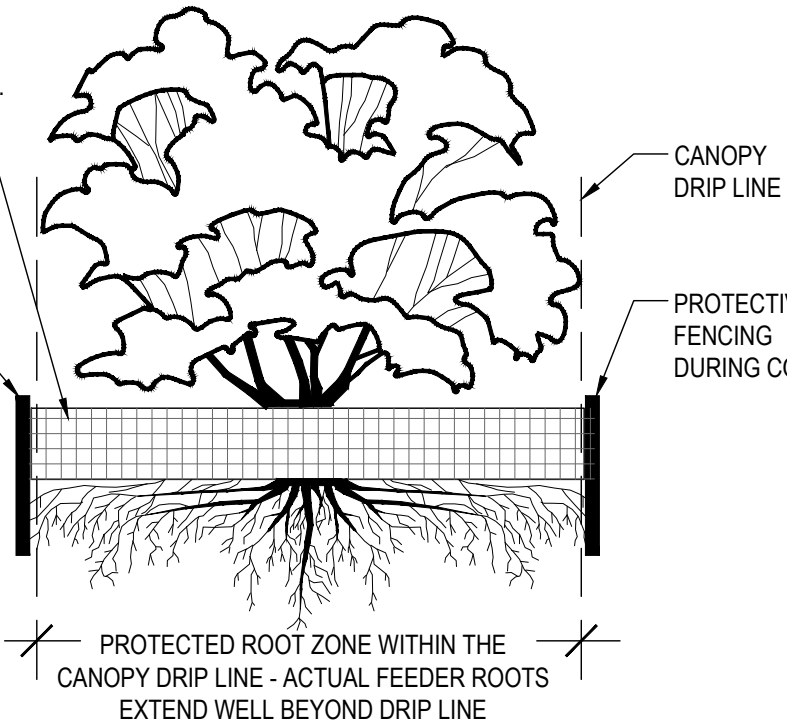
# TREE PROTECTION NOTES

- EXISTING TREES WITHIN THE LIMITS OF THE DEVELOPMENT SHALL REMAIN AND BE PROTECTED UNLESS NOTED ON THESE PLANS FOR REMOVAL.
  - WITHIN THE DRIP LINE OF PROTECTED EXISTING TREE, THERE SHALL BE NO CUT OR FILL OVER A FOUR-INCH DEPTH UNLESS A QUALIFIED ARBORIST OR FORESTER HAS EVALUATED AND APPROVED THE DISTURBANCE.
  - TREE PRUNING AND REMOVAL SHALL BE PERFORMED BY A CERTIFIED ARBORIST.
  - PRIOR TO AND DURING CONSTRUCTION, BARRIERS SHALL BE ERECTED AROUND PROTECTED EXISTING TREES WITH SUCH BARRIERS TO BE OF ORANGE FENCING A MINIMUM OF FOUR (4) FEET IN HEIGHT, SECURED WITH METAL T-POSTS, NO CLOSER THAN SIX (6) FEET FROM THE TRUNK OR ONE-HALF (1/2) OF THE DRIP LINE, WHICHEVER IS GREATER. THERE SHALL BE NO STORAGE OR MOVEMENT OF EQUIPMENT, MATERIAL, DEBRIS OR FILL WITHIN THE FENCED TREE PROTECTION ZONE.
  - DURING THE CONSTRUCTION STAGE OF DEVELOPMENT, THE APPLICANT SHALL PREVENT THE CLEANING OF EQUIPMENT OR MATERIAL OR THE STORAGE AND DISPOSAL OF WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MOTOR OIL OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF A TREE WITHIN THE DRIP LINE OF ANY PROTECTED TREE OR GROUP OF TREES.
  - NO DAMAGING ATTACHMENT, WIRES, SIGNS OR PERMITS MAY BE FASTENED TO PROTECTED TREE.
  - LARGE AREAS CONTAINING PROTECTED TREES AND SEPARATED FROM CONSTRUCTION OR LAND CLEARING AREAS, ROAD RIGHTS-OF-WAY AND UTILITY EASEMENTS MAY BE "RIBBONED OFF," RATHER THAN ERECTING PROTECTIVE FENCING AROUND EACH TREE AS REQUIRED ABOVE. THIS MAY BE ACCOMPLISHED BY PLACING METAL T-POST STAKES A MAXIMUM OF FIFTY (50) FEET APART AND TYING RIBBON OR ROPE FROM STAKE-TO-STAKE ALONG THE OUTSIDE PERIMETERS OF SUCH AREAS BEING CLEARED.
  - THE INSTALLATION OF UTILITIES, IRRIGATION LINES OR UNDERGROUND FIXTURE REQUIRING EXCAVATION DEEPER THAN SIX (6) INCHES SHALL BE ACCOMPLISHED BY BORING UNDER THE ROOT SYSTEM OF PROTECTED EXISTING TREES AT A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES. THE AUGER DISTANCE IS ESTABLISHED FROM THE FACE OF THE TREE (OUTER BARK) AND IS SCALED FROM TREE DIAMETER AT BREST HEIGHT AS DESCRIBED IN THE CHART BELOW:
- | TREE DIAMETER AT BREST HEIGHT (INCHES) | AUGER DISTANCE FROM FACE OF TREE (FEET) |
|----------------------------------------|-----------------------------------------|
| 0-2                                    | 1                                       |
| 3-4                                    | 2                                       |
| 5-9                                    | 5                                       |
| 10-14                                  | 10                                      |
| 15-19                                  | 12                                      |
| OVER 19                                | 15                                      |
- TREE REMOVAL SHOWN SHALL BE COMPLETED OUTSIDE OF THE SONGBIRD NESTING SEASON (FEB 1 - JULY 31) OR CONDUCT A SURVEY OF TREES ENSURING NO ACTIVE NESTS IN THE AREA.

FENCING MATERIAL SHALL BE BRIGHT CONTRASTING COLOR, DURABLE AND 48" MINIMUM

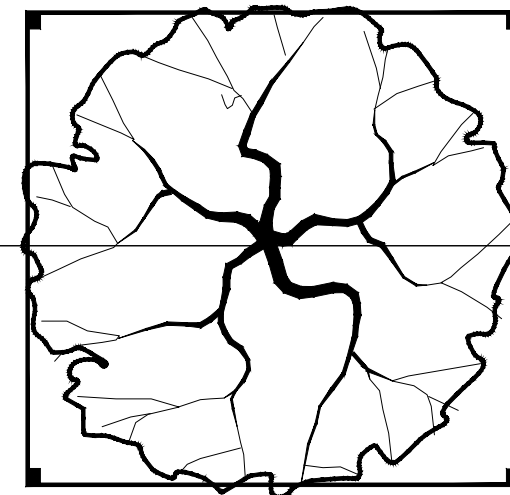
FENCE POSTS SHALL BE COMPARABLE TO METAL T-POSTS OR HEAVIER, AND PLACED AT LEAST 12" IN SOLID GROUND

SECTION



SEE SECTION

PLAN



## TREE PROTECTION NOTES:

- TO PREVENT SOIL COMPACTION WITH IN PROTECTED ROOT ZONES, DESIGNATED ROUTES FOR EQUIPMENT AND FOOT TRAFFIC BY WORK CREWS SHALL BE DETERMINED PRIOR TO COMMENCING ACTIVITIES AND INDICATED IN THESE CONST. DOCUMENTS.
- PLANNED ROUTES SHALL BE MARKED AT THE SITE BEFORE CONST. COMMENCES.
- THE CONTRACTOR SHALL INFORM CONSTRUCTION CREW MEMBERS AND SUBCONTRACTORS OF THE ROUTES AND ENSURE THAT ONLY THESE ROUTES ARE USED.
- TO PREVENT SOIL COMPACTION AND REDUCE TREE ROOT RESPIRATION, NO SOIL STOCKPILES, SUPPLIES, EQUIPMENT OR ANY OTHER MATERIAL SHALL BE PLACED OR STORED WITHIN A TREE DRIP ZONE OR WITHIN 10' OF THE TREE TRUNK, WHICHEVER DISTANCE IS GREATER. HEAVY OBJECTS SUCH AS WOOD PALLETS OR METAL RAILINGS SHALL NOT LEAN AGAINST OR COME IN CONTACT WITH THE TREE.
- WHEN FOOT TRAFFIC OR EQUIPMENT USE IS UNAVOIDABLE WITHIN THE DRIP LINE, THIS AREA SHALL BE MULCHED WITH WOOD CHIPS TO A PRE-DETERMINED DEPTH BEFORE CONSTRUCTION ACTIVITY BEGINS. MULCH DEPTH AND POSSIBLE PLANKING SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND REMOVED WHEN CONSTRUCTION ACTIVITIES ARE COMPLETED. SITUATIONS SUCH AS THIS NEED TO BE DISCUSSED AND APPROVED BY FORESTRY SERVICES.
- FENCING MATERIAL SHALL ENCIRCLE ANY TREE WHOSE DRIP LINE EDGE IS WITHIN 20' OF ANY CONSTRUCTION ACTIVITY.



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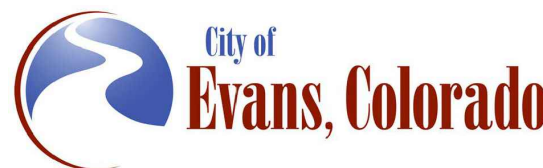
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PRIME CONSULTANT: SUB CONSULTANT:



### Sheet Revisions

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As Constructed

No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
LANDSCAPE PLAN

Designer: DE Structure  
Detailer: DE Numbers

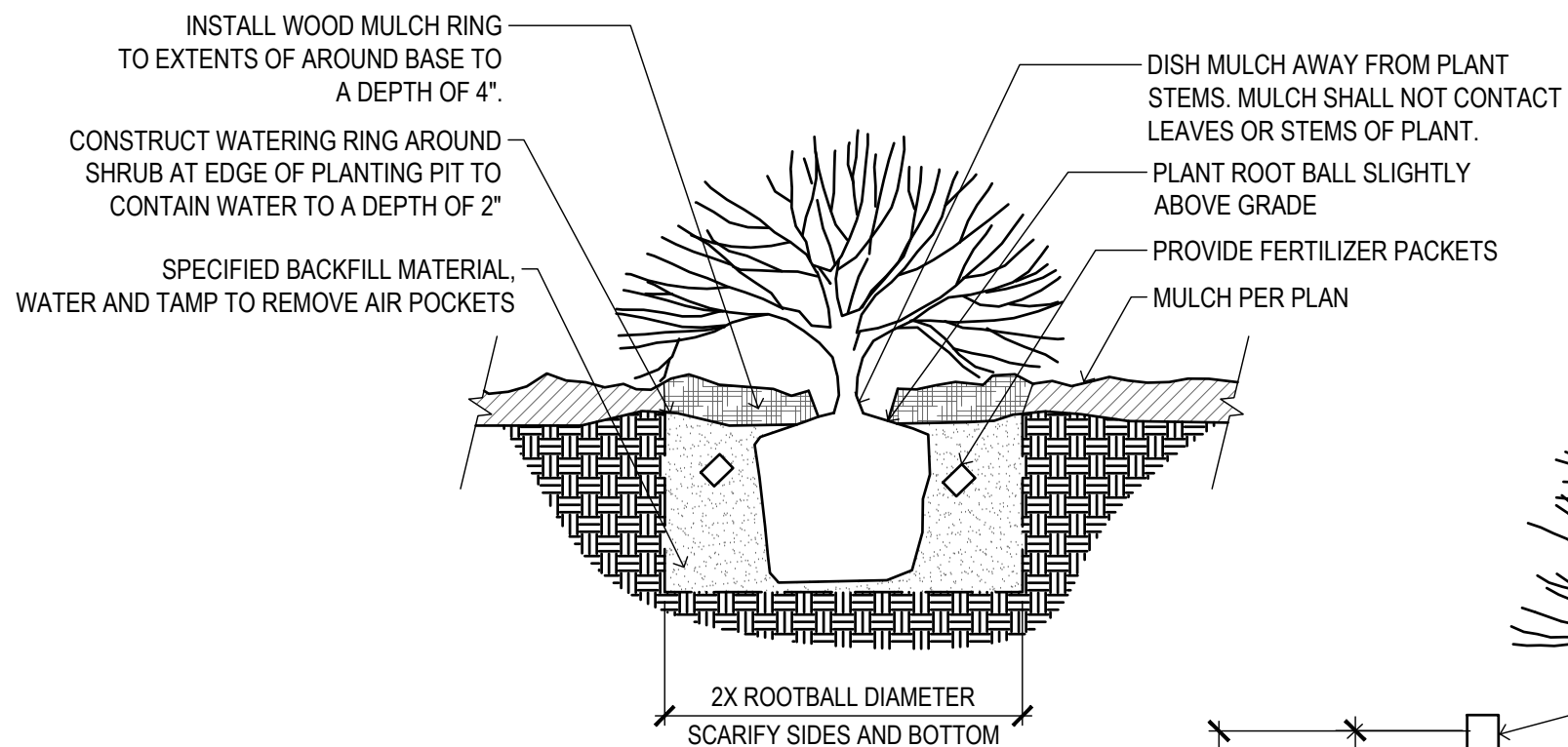
Sheet Subset: LANDSCAPE Subset Sheets: 20 of 23

Project No.

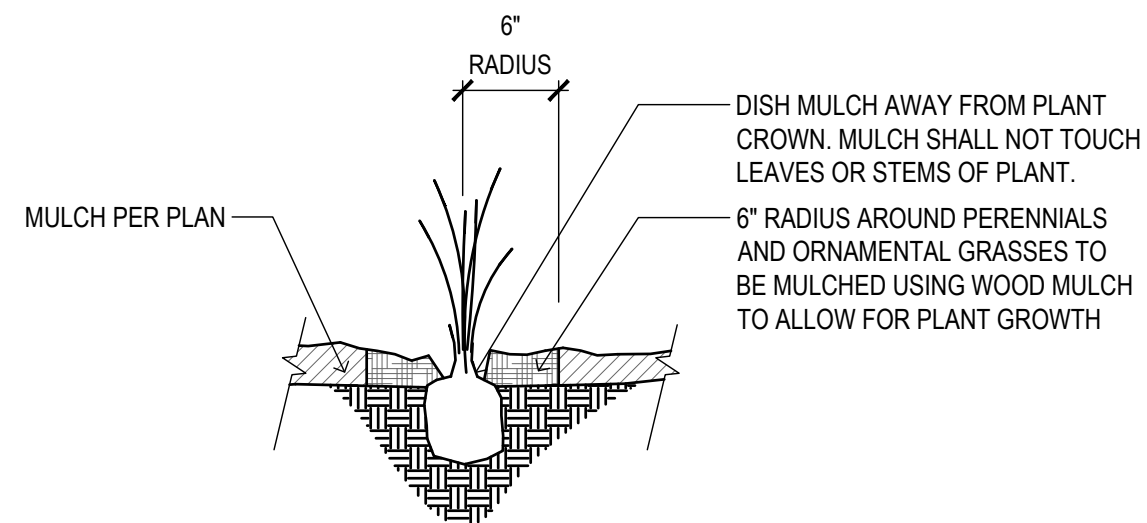
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Drawing Number LS-20

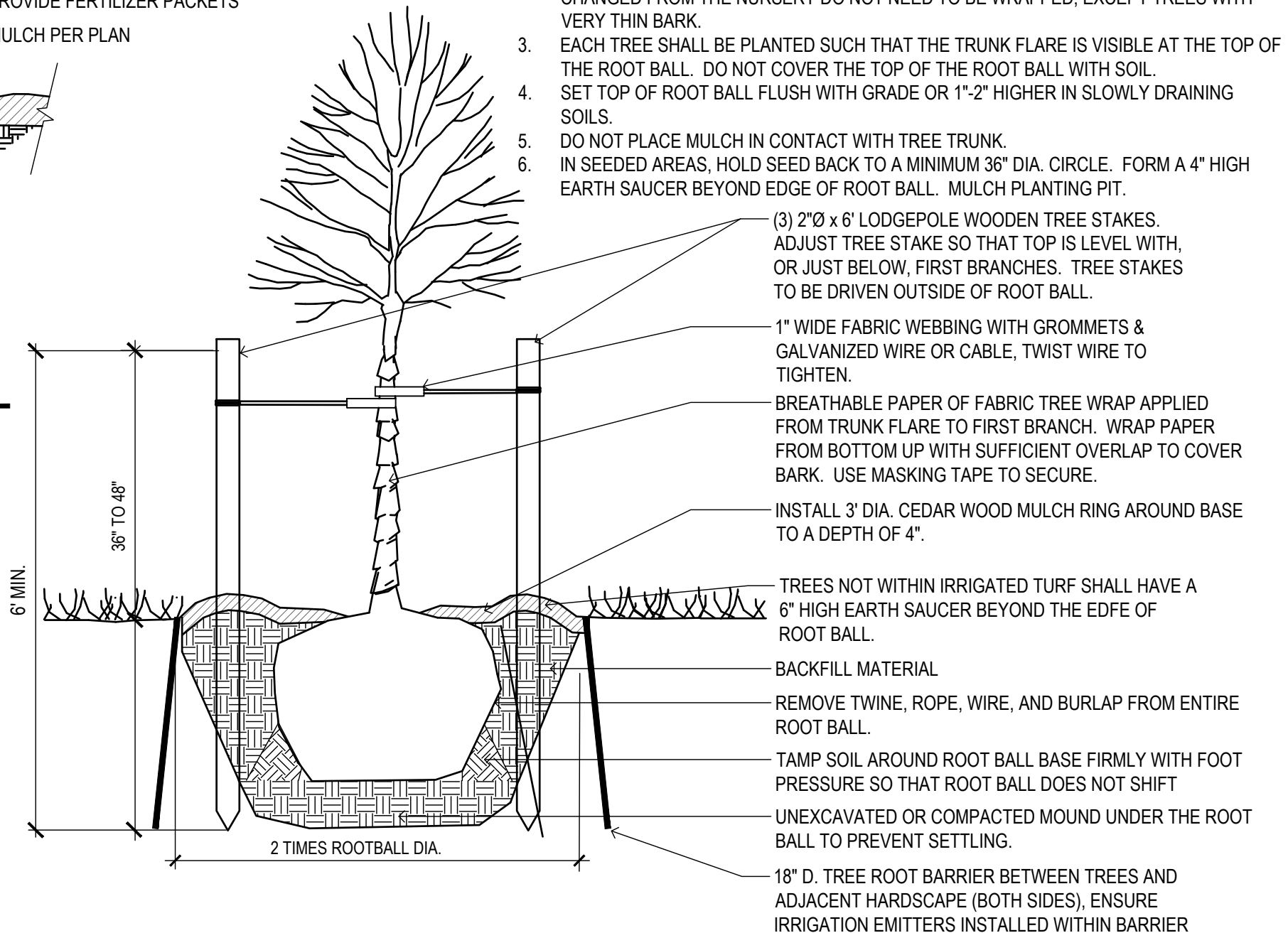
Sheet Number 120



**3** SHRUB PLANTING  
SCALE: NTS



**2** PERENNIAL AND GRASSES PLANTING  
SCALE: NTS



**1** DECIDUOUS TREE PLANTING  
SCALE: NTS

GENERAL TREE PLANTING NOTES

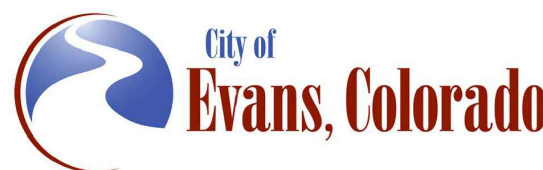
1. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. MARK NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE. TREES WHOSE NORTH ORIENTATION IS NOT CHANGED FROM THE NURSERY DO NOT NEED TO BE WRAPPED, EXCEPT TREES WITH VERY THIN BARK.
3. EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
4. SET TOP OF ROOT BALL FLUSH WITH GRADE OR 1"-2" HIGHER IN SLOWLY DRAINING SOILS.
5. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.
6. IN SEEDED AREAS, HOLD SEED BACK TO A MINIMUM 36" DIA. CIRCLE. FORM A 4" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL. MULCH PLANTING PIT.

Plot Date: 6/29/2024 1:16 PM Picked By: Doug Elger  
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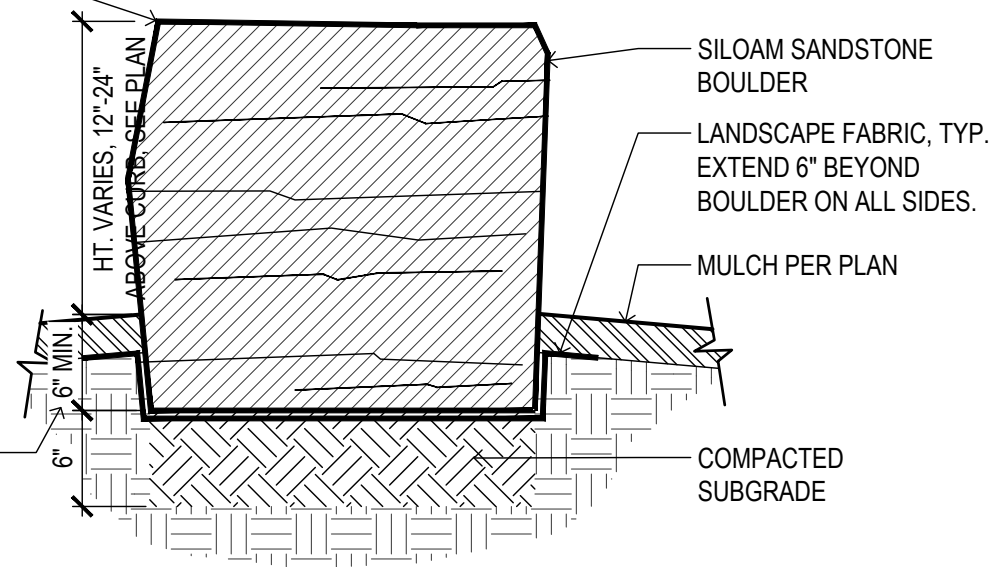
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No Revisions:			AQC M415-021
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Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 21 of 23
			Sheet Number 121

TOP SURFACE OF BOULDERS WITHIN SIGHT TRIANGLES SHALL BE 35" MAX ABOVE STREET LEVEL



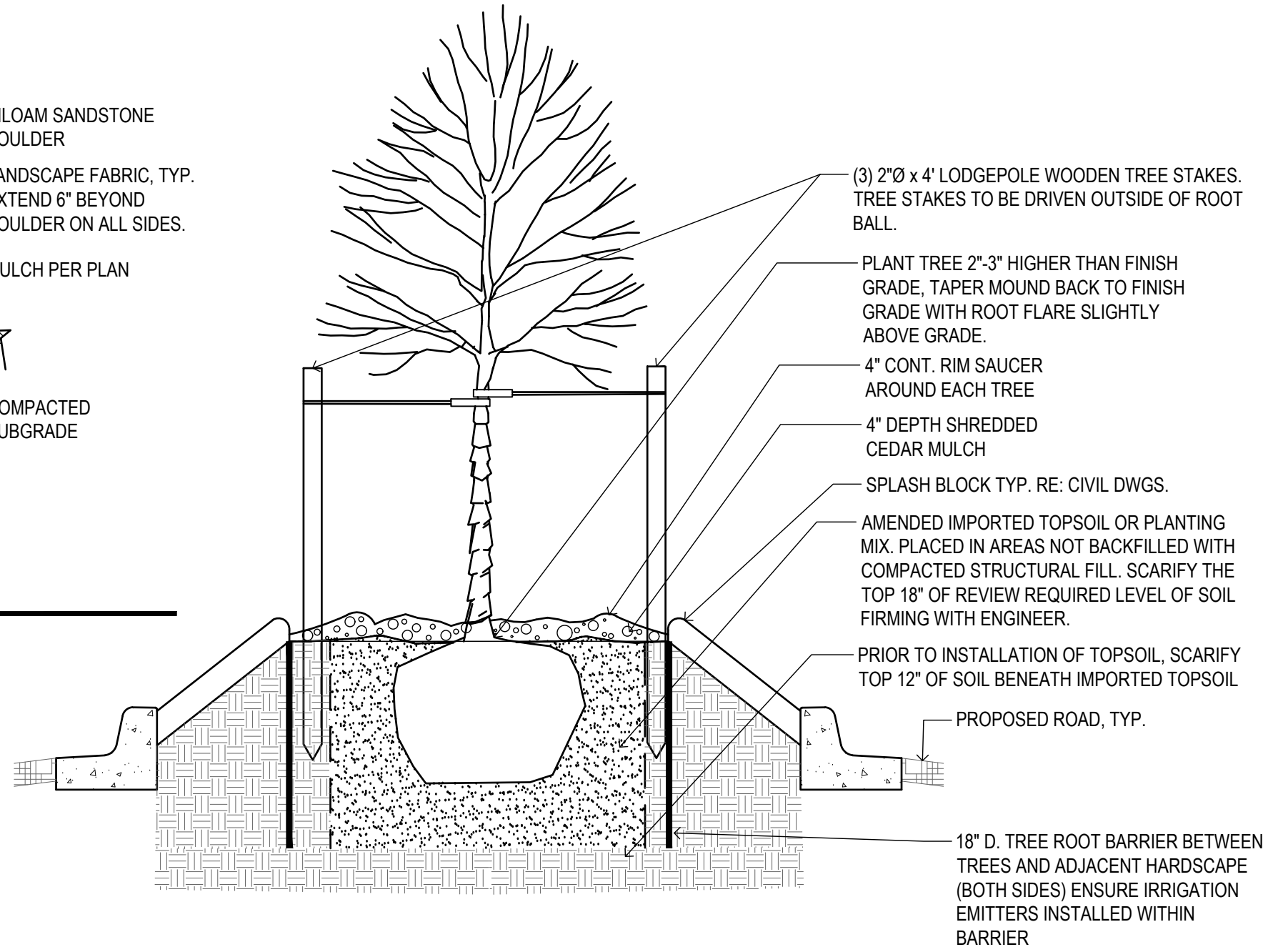
BURY BOTTOM OF BOULDER 6" MIN. BELOW ADJACENT FINISHED GRADE IF BOULDER IS LOCATED WITHIN DRIP LINE OF EXISTING TREE, BURY BOULDER 3" BELOW ADJACENT FINISHED GRADE, TYP.

\*NOTE: BOULDERS SHALL NOT BE PLACED WITHIN 2 FT. OF SPLASH BLOCK. SEE PLAN FOR HEIGHT AND SIZING.

2

LANDSCAPE BOULDER

SCALE: NTS



1

MEDIAN TREE PLANTING

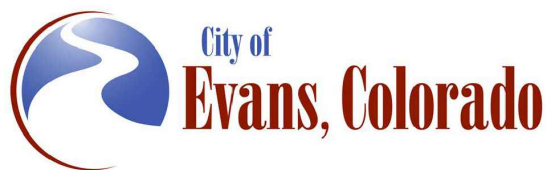
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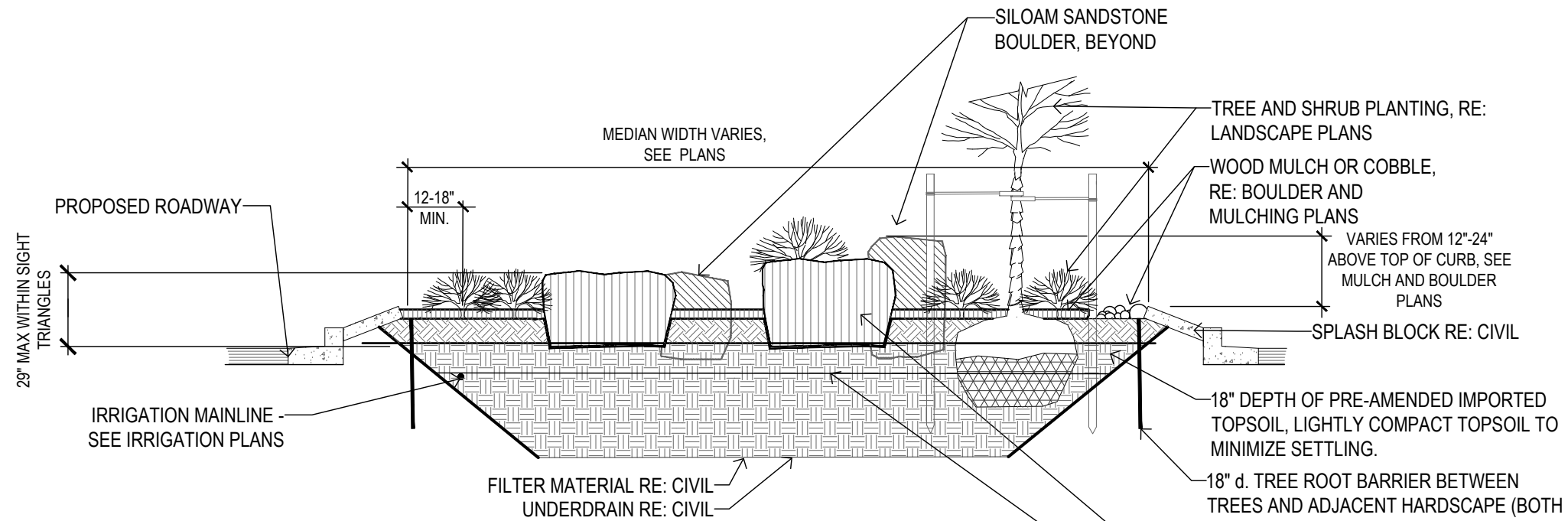
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**NOTES:**

1. SIGHT DISTANCE TRIANGLES: BOULDER AND PLANTS (MATURE SIZE) LOCATED WITHIN SIGHT DISTANCE TRIANGLES SHALL NOT EXTEND MORE THAN 29" ABOVE STREET LEVEL. REFER TO LANDSCAPE AND THE MULCH AND BOULDER PLAN FOR SIGHT TRIANGLE LOCATIONS. SEE PLANS FOR SIGHT DISTANCE TRIANGLE AREA.
2. CONTRACTOR SHALL SUBMIT PHOTOS OF BOULDERS AT QUARRY FOR THE CITY OF EVANS OR ENGINEER TO REVIEW AND APPROVE PRIOR TO DELIVERY TO PROJECT SITE. INCLUDE AN EXTENDED TAPE MEASURE PLACED NEXT TO BOULDER IN PHOTO FOR SCALE.
3. THE CITY OF EVANS OR ENGINEER SHALL REVIEW AND APPROVE BOULDER LOCATIONS PRIOR TO PLACEMENT. LOCATIONS SHOULD BE STAKED FOR REVIEW.
4. VERTICAL JOINTS BETWEEN BOULDERS SHALL NOT EXCEED 1". STONE CHINKING IS NOT ACCEPTABLE.
5. DAMAGED/SCARRED BOULDERS MAY BE REJECTED BY THE CITY OF EVANS OR ENGINEER.
6. COMPACT SOIL BENEATH BOULDERS TO REDUCE SETTLING.
7. PLACE BOULDERS WITH FLATTEST SIDE UP AND MOST ATTRACTIVE FACE (AS DETERMINED BY OWNER'S REPRESENTATIVE) FACING ROADWAY. TOP SURFACE OF BOULDER SHALL BE FLAT AND SLIGHTLY SLOPED FOR DRAINAGE.

1

**MEDIAN CROSS SECTION**

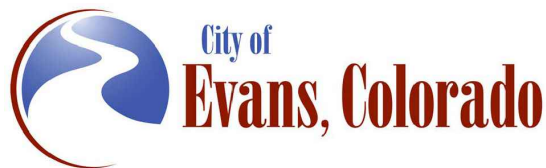
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37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN		
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Detailer:	DE	Numbers
Sheet Subset: LANDSCAPE	Subset Sheets: 23 of 23	

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AQC M415-021
Drawing Number LS-23
Sheet Number 123

**GENERAL DESCRIPTION**

A FULLY AUTOMATED SPRINKLER AND DRIP IRRIGATION SYSTEM WILL IRRIGATE TURF AREAS AND TREES. POP-UP SPRAY SPRINKLERS WILL IRRIGATE TURF. INLINE DRIP TUBING WILL IRRIGATE TREES IN MEDIANS (REFER TO IRRIGATION PLANS AND DETAILS).

POTABLE WATER FROM A DEDICATED IRRIGATION TAP AND METER WILL BE USED FOR IRRIGATION. THE POINT-OF-CONNECTION (P.O.C.) WILL BE AS SHOWN ON THE IRRIGATION PLANS. TAP AND METER TO BE INSTALLED BY OTHERS (REFER TO CIVIL PLANS).

A PEDESTAL MOUNT IRRIGATION CONTROLLER COMPATIBLE WITH THE CITY OF EVANS EXISTING CENTRAL CONTROL SYSTEM MUST BE INSTALLED UNDER THIS CONTRACT. THE IRRIGATION CONTROLLER UTILIZES TWO WIRE CABLE AND REQUIRES A SPARE TWO WIRE CABLE TO BE INSTALLED.

A FLOW SENSOR AND MASTER VALVE WILL BE UTILIZED TO FACILITATE AUTOMATIC SHUT DOWN OF THE IRRIGATION SYSTEM IN THE EVENT OF A MAINLINE PIPE BREAK.

ISOLATION GATE VALVES PERMIT THE ISOLATION OF SECTIONS OF THE SYSTEM FOR REPAIRS OR MAINTENANCE. QUICK COUPLING VALVES HAVE BEEN PROVIDED THROUGHOUT THE SITE FOR INCIDENTAL WATERING.

**GENERAL NOTES**

1. THE SYSTEM DESIGN ASSUMES A MINIMUM STATIC PRESSURE AND MINIMUM DISCHARGE AS INDICATED ON THE PLANS FOR THE POINT-OF-CONNECTION. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES WITH THE ASSUMPTIONS.
2. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
4. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
  - A. IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES. INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
  - B. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF CROSS TYPE FITTINGS IS NOT PERMITTED.
5. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
  - A. TWO OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVE.
  - B. TWO OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL SPRAY SPRINKLERS.
  - C. TWO QUICK COUPLING KEYS, EACH WITH ATTACHED SWIVEL HOSE EL FOR OPERATION OF THE QUICK COUPLING VALVES.
6. SELECT NOZZLES FOR SPRAY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS.
7. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE TO BE INSTALLED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE REQUIRES HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR.
8. CONNECT ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
9. WITH REGARD TO PIPE SIZING, THE FOLLOWING SHOULD BE NOTED: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
10. INSTALL VAN NOZZLES WHERE SPRAY ANGLES ARE LESS OR GREATER THAN WHAT A FIXED SPRAY NOZZLE CAN IRRIGATE WITHOUT EXCESSIVE OVERSPRAY.
11. CONTRACTOR TO INSTALL SPRINKLERS PERPENDICULAR TO GRADE AND FINE GRADING TECHNIQUES EMPLOYED TO REDUCE SEDIMENT, HEAD DAMAGE, AND RUNOFF TO HARD SURFACES.
12. CONTRACTOR MUST USE CYCLE/SOAK PROGRAMMING TECHNIQUES TO MINIMIZE RUN OFF.

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 04 37th Ave S - 37th Ave S - 37th Street and 65th Ave S - 37th Street and 65th Ave S.dwg





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	IRRIGATION COVER SHEET			
	No Revisions:	Designer: JHK	Structure	Drawing Number IRR
	Revised:	Detailer: JHK	Numbers	
Void:	Sheet Subset: IRRIGATION	Subset Sheets: 1 of 30	Sheet Number 1724	

**LEGEND**

	SLEEVING *TYPE: CLASS 200 PVC		POP-UP SPRINKLER: RAIN BIRD MPR SERIES ON 1806-SAM-PRS OR EQUAL @ 30 PSI
	MAINLINE PIPE *TYPE: CLASS 200 PVC, SIZE PER PLAN		RADIUS: 5' FLOW (GPM): Q - 0.10 H - 0.20 F - 0.41
	LATERAL PIPE TO SPRINKLERS AND INLINE DRIP RINGS *TYPE: CLASS 200 PVC *1-INCH UNLESS OTHERWISE NOTED		RADIUS: 8' FLOW (GPM): Q - 0.26 H - 0.52 F - 1.05
	MANIFOLD PIPE TO ZONE CONTROL VALVES *TYPE: CLASS 200 PVC *SIZE: 1-INCH		RADIUS: 10' FLOW (GPM): Q - 0.39 H - 0.79 F - 1.58
	DRIP LATERAL PIPE TO EMITTERS *TYPE: RAIN BIRD XT-700 OR EQUAL *3/4-INCH SIZE UNLESS OTHERWISE NOTED *EMITTER TYPE: RAIN BIRD XERI-BUG OR EQUAL		RADIUS: 12' FLOW (GPM): Q - 0.65 H - 1.30 F - 2.60
	UNCONNECTED PIPE CROSSING		RADIUS: 15' FLOW (GPM): Q - 0.92 H - 1.85 F - 3.70
	POINT-OF-CONNECTION (P.O.C.)		INLINE DRIP FITTING ASSEMBLY (TREE IRRIGATION) *RAIN BIRD XT-CV, 9 GPH/EMITTER, 12-INCH EMITTER SPACING OR EQUAL
	WINTERIZATION ASSEMBLY *REFER TO DETAIL		INLINE VALVE ASSEMBLY *REFER TO DETAIL
	BACKFLOW PREVENTION ASSEMBLY *MODEL: FEBCO 825YA *SIZE: XX-INCH *ENCLOSURE: VIT STRONGBOX SBBC SERIES (SIZE AS NEEDED)		IRRIGATION CONTROLLER ASSEMBLY: *MODEL: BASELINE BL-3200P (PEDESTAL MOUNT) *INSTALL BL-LA01 LIGHTING ARRESTORS PER BASELINE GUIDELINES *INSTALL BL-CM4G-P-VZ BASELINE CELLULAR MODEM VERIZON *4 GAUGE P7072D TWO WIRE CABLE (MAXI WIRE) *INSTALL SPARE TWO WIRE CABLE *PROVIDE DBC SITE VERIFICATION SERVICE, DBC CERTIFIED START UP SERVICE, AND DBC EXTENDED WARRANTY SERVICE *CONTACT DBC IRRIGATION, BRIAN YOUNG (PHONE: 970-744-7598) FOR ORDERING AND TESTING
	MASTER VALVE ASSEMBLY: *MODEL: GRISWOLD 2000, NORMALLY CLOSED *SIZE: XX-INCH *DECODER: BASELINE BL-5201		INDICATES CONTROLLER AND CONTROLLER STATION NUMBER INDICATES LATERAL DISCHARGE IN GPM INDICATES REMOTE CONTROL VALVE SIZE IN INCHES
	FLOW SENSOR ASSEMBLY: *MODEL: FLOMEC QS200 *SIZE: XXX-INCH *DECODER: BASELINE BL-5309 FLOW SENSOR BICOILER		VALVE BOXES *MODEL: RAIN BIRD VB SERIES OR EQUAL. LID COLORS GREEN.
	ISOLATION GATE VALVE ASSEMBLY *MODEL (2.5-INCH AND SMALLER): NIBCO T113K OR EQUAL *NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE		VALVE DECODER NOTES: *INSTALL ONE BL-5201 DECODER WITH AN INDIVIDUAL VALVE *INSTALL BL-5202 TWO STATION DECODER WHERE THERE ARE A PAIR OF CLUSTERED VALVES *INSTALL BL-5204 FOUR STATION DECODER WHERE THERE ARE FOUR CLUSTERED VALVES
	BLOW OUT ASSEMBLY (REFER TO DETAIL)		
	QUICK COUPLING VALVE ASSEMBLY *MODEL: RAIN BIRD 5LRC OR EQUAL		
	AIR VACUUM RELIEF VALVE ASSEMBLY *MODEL: WATERMAN AV-150 *SIZE: 1-1/2-INCH		
	REMOTE CONTROL VALVE ASSEMBLY *MODEL: RAIN BIRD PEB OR EQUAL *SIZE AS SHOWN ON PLANS *BALL VALVE: SPEARS PVC COMPACT OR EQUAL *DECODER: SEE DECODER NOTES TO RIGHT		
	DRIP REMOTE CONTROL VALVE ASSEMBLY *MODEL: RAIN BIRD XCZ-100-PRB-COM OR EQUAL *BALL VALVE INCLUDED WITH DRIP ZONE KIT *DECODER: SEE DECODER NOTES TO RIGHT		
	ZONE CONTROL VALVE ASSEMBLY *BALL VALVE: SPEARS PVC COMPACT OR EQUAL *SIZE: 1-INCH		
	FLUSH CAP ASSEMBLY *MODEL: RAIN BIRD OR EQUAL		

**FLAG NOTES**

- ① EXCAVATE AND EXPOSE 1-1/2-INCH IRRIGATION METER IN APPROXIMATE LOCATION (REFER TO CIVIL PLANS, METER INSTALLED BY OTHERS). INSTALL TYPE K HARD COPPER PIPE FROM METER TO WINTERIZATION ASSEMBLY AND BACKFLOW PREVENTION ASSEMBLY. COORDINATE CONNECTION AND PIPING INSTALLATION WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ② INSTALL PEDESTAL MOUNT CONTROLLER IN APPROXIMATE LOCATION SHOWN. ELECTRICAL POWER WILL BE PROVIDED WITHIN 5-FEET OF CONTROLLER (REFER TO ELECTRICAL PLANS). COORDINATE EXACT LOCATION OF ELECTRICAL POWER WITH NECESSARY TRADES ON SITE. PROVIDE ALL NECESSARY CONDUIT AND CONDUCTORS BETWEEN ELECTRICAL POWER SOURCE AND IRRIGATION CONTROLLER. MAKE ALL NECESSARY CONNECTIONS. COORDINATE EXACT PLACEMENT OF CONTROLLER WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ③ INSTALL SPARE TWO WIRE CABLE FROM IRRIGATION CONTROLLER TO NEW REMOTE CONTROL VALVES. COIL 30-INCH LENGTH OF SPARE TWO WIRE CABLE WITHIN EACH REMOTE CONTROL VALVE'S VALVE BOX. COLOR OF TWO WIRE CABLE TO BE DIFFERENT THAN PRIMARY TWO WIRE CABLE. COORDINATE SPARE TWO WIRE CABLE INSTALLATION WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ④ PROGRAM MASTER VALVE AND FLOW SENSOR SO THAT THE MASTER VALVE SHUTS DOWN IF A HIGH FLOW OF 75 GPM IS EXCEEDED (MAINLINE PIPE BREAK). INSTALL TWO WIRE CABLE FROM MASTER VALVE AND FLOW SENSOR AS WELL AS NECESSARY DECODER FOR THE MASTER VALVE AND FLOW SENSOR.
- ⑤ INSTALL IRRIGATION DECODER GROUNDING EQUIPMENT THAT MEETS CONTROLLER MANUFACTURER'S GUIDELINES AT LOCATION ADJACENT TO INDICATED REMOTE CONTROL VALVE ASSEMBLY. COORDINATE EXACT LOCATION OF GROUNDING EQUIPMENT WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR GROUNDING THE ENTIRE TWO WIRE PATH PER MANUFACTURER'S GUIDELINES.
- ⑥ INSTALL BASELINE SOIL MOISTURE SENSOR (BL-5315B) FOR INDICATED REMOTE CONTROL VALVE. UTILIZE SENSOR FOR PROGRAMMING OF ZONES OF SAME IRRIGATION TYPE AND SIMILAR PLANTING MATERIALS TO BE APPLIED TO REMAINING ZONES (OF SAME TYPE) FOR THIS PROJECT. COORDINATE PROGRAMMING WITH OWNER'S REPRESENTATIVE. COORDINATE EXACT LOCATION OF SENSOR WITH OWNER'S REPRESENTATIVE.
- ⑦ INSTALL SLEEVING FOR EITHER OF THE FOLLOWING:  
1. ONE (1) 6-INCH SLEEVE FOR IRRIGATION MAINLINE AND ONE (1) 2-INCH SLEEVE FOR TWO WIRE CABLE.  
2. ONE (1) SLEEVE FOR LATERAL PIPING. REFER TO SIZE REQUIRED ON PLAN.  
COORDINATE SLEEVING INSTALLATION WITH OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- ⑧ IRRIGATION PIPE AND VALVES MAY BE SHOWN OUTSIDE PLANTING AREA IN HARDSCAPE FOR CLARITY ONLY. INSTALL ALL IRRIGATION COMPONENTS IN LANDSCAPED AREA.

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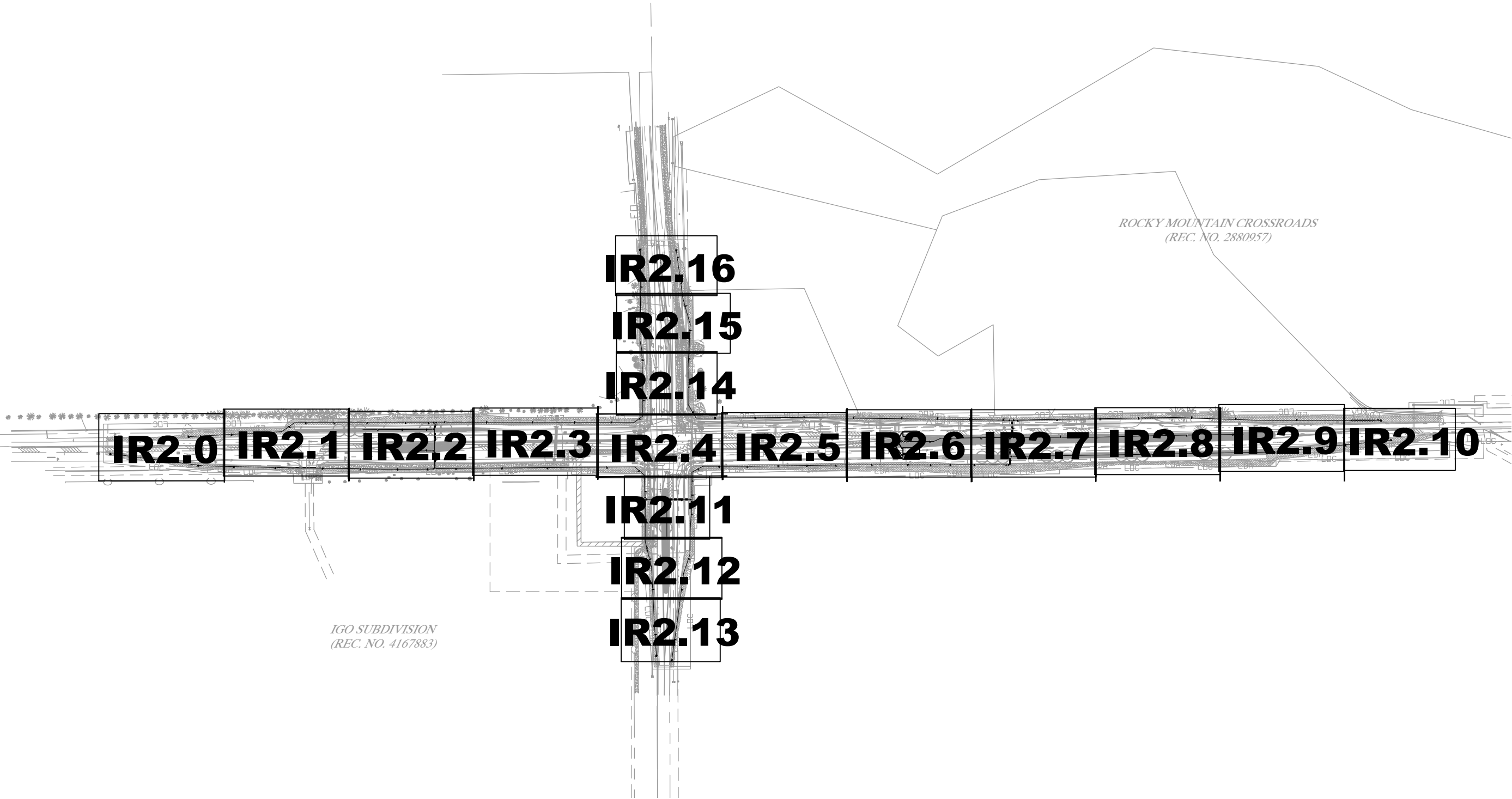

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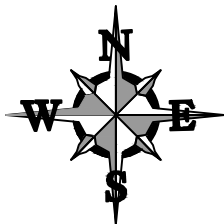



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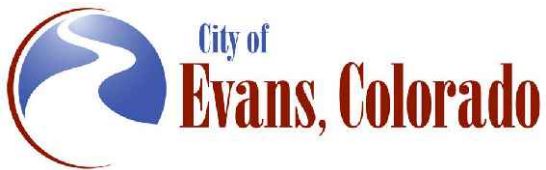
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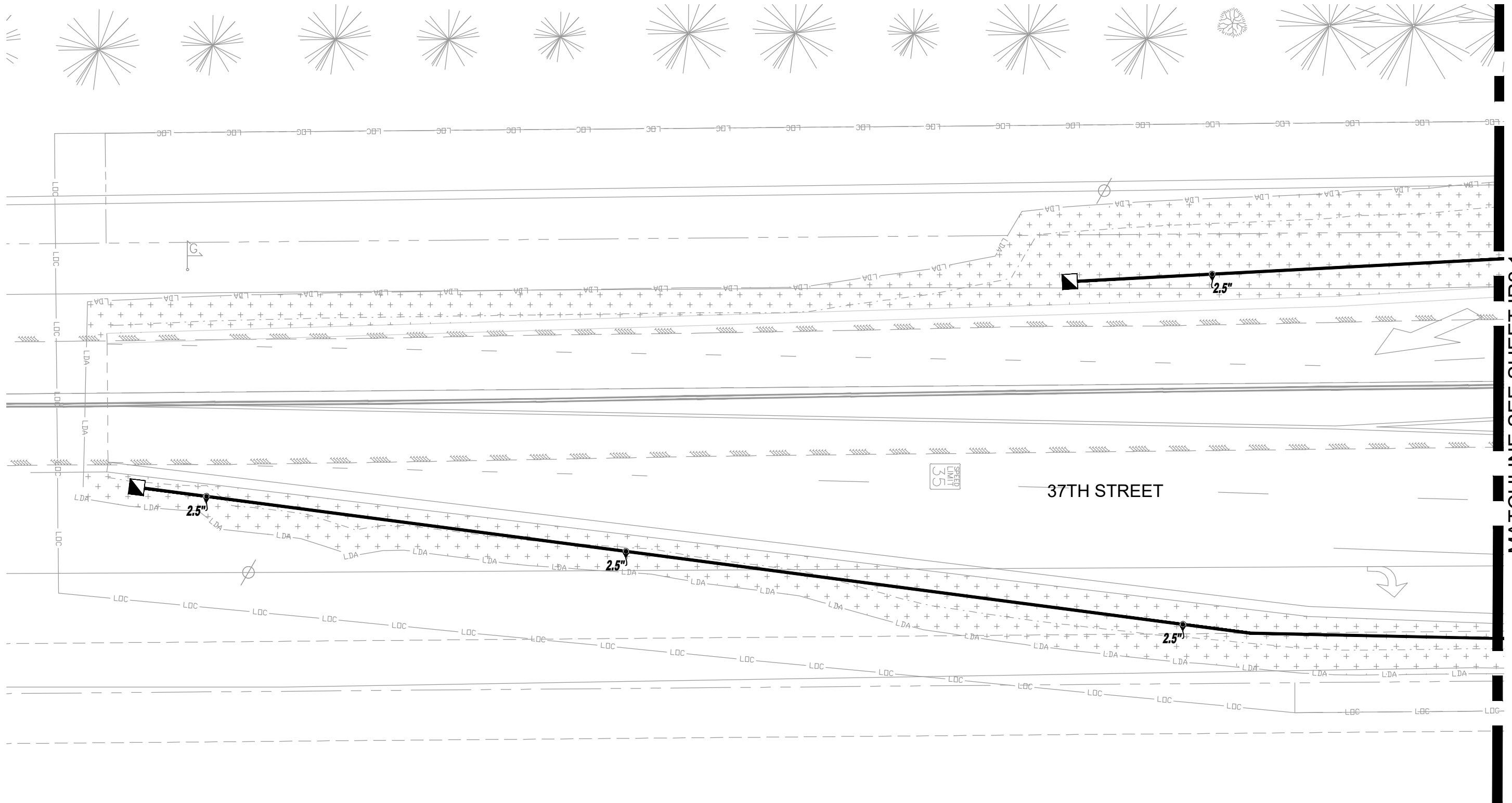
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Drawing Number IRR
Sheet Number 17 of 26



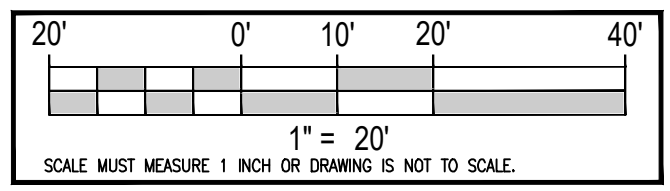
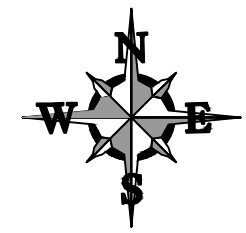
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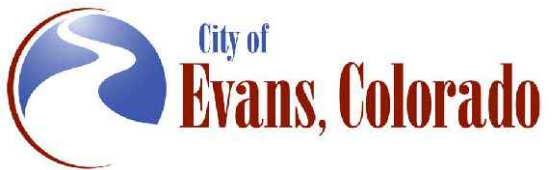
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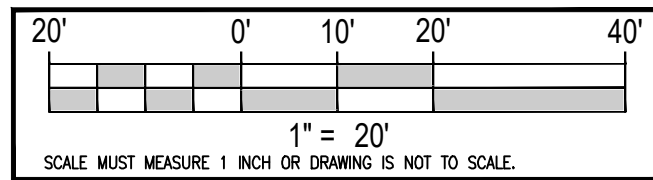
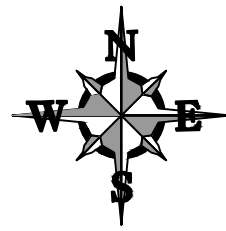
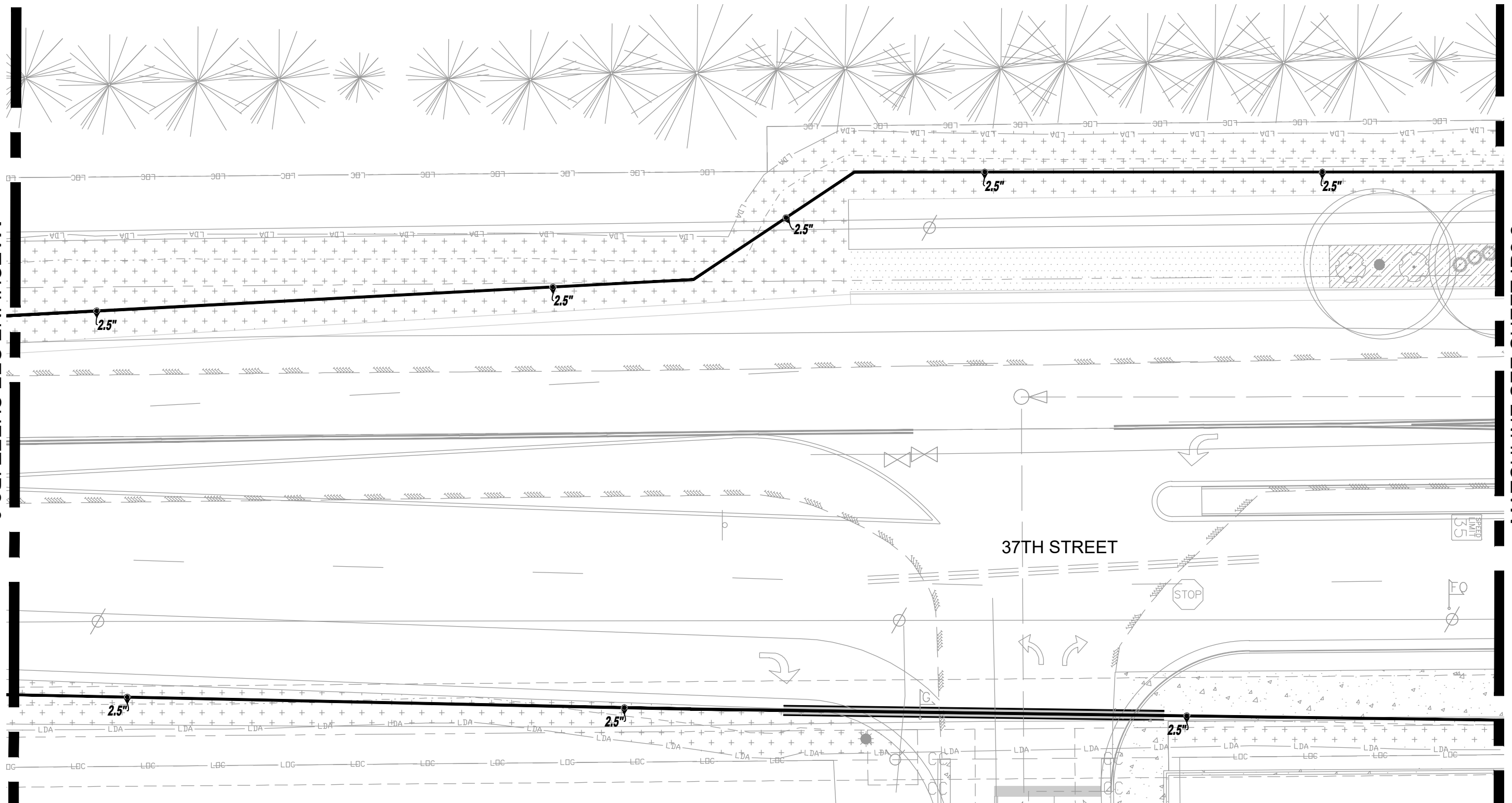
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Detailer:	JHK	Numbers	
Sheet Subset:	IRRIGATION	Subset Sheets:	4 of 30

Project No.	AQC M415-021
Drawing Number	IRR
Sheet Number	127

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MATCHLINE SEE SHEET IR2.2



P:\14 08-22-2024\0822-24\14-0822-24.dwg, 2:13 PM, Plotted By: James H. McNamee, 00:00, 08/22/2024, 37TH STREET AND 65TH AVE, 37TH STREET AND 65TH AVE, DWG



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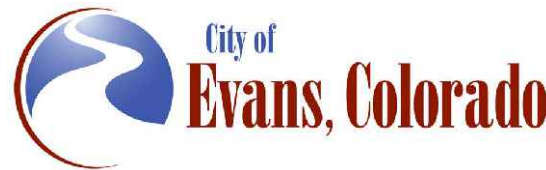
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Sheet Revisions

Date:	Comments	Init.



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Designer:	JHK
Detailer:	JHK
Sheet Subset:	IRRIGATION
Structure Numbers	
Subset Sheets:	5 of 30

Project No.	AQC M415-021
Drawing Number	IRR
Sheet Number	IR2.1

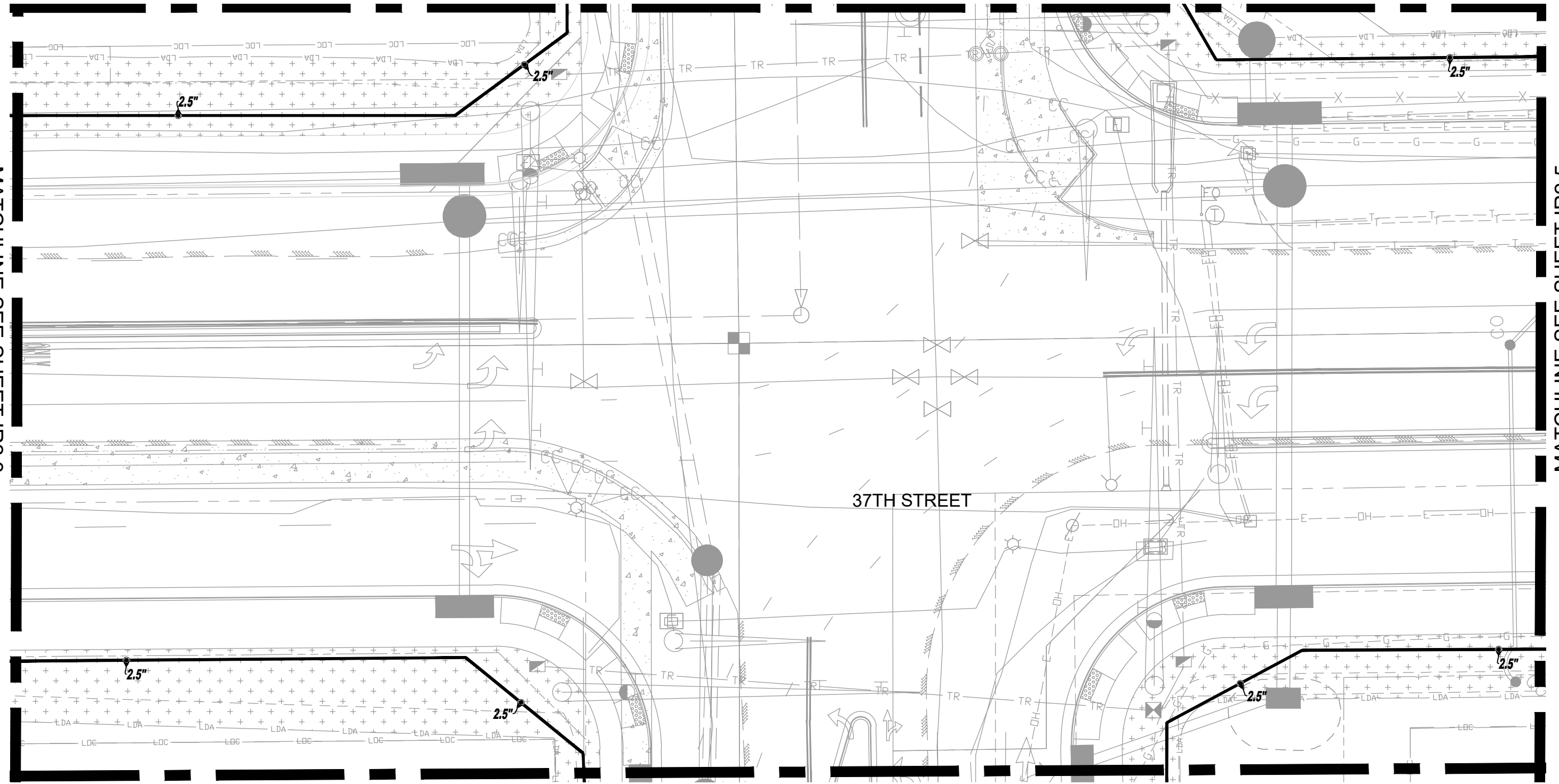




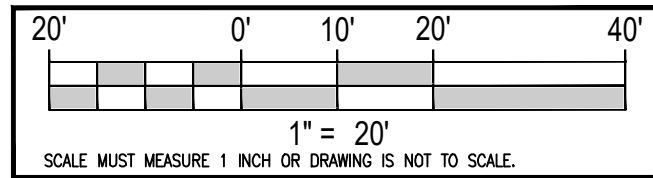
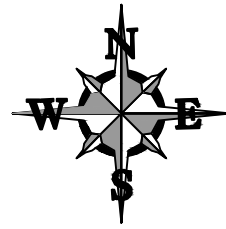
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MATCHLINE SEE SHEET IR2.5



MATCHLINE SEE SHEET IR2.11



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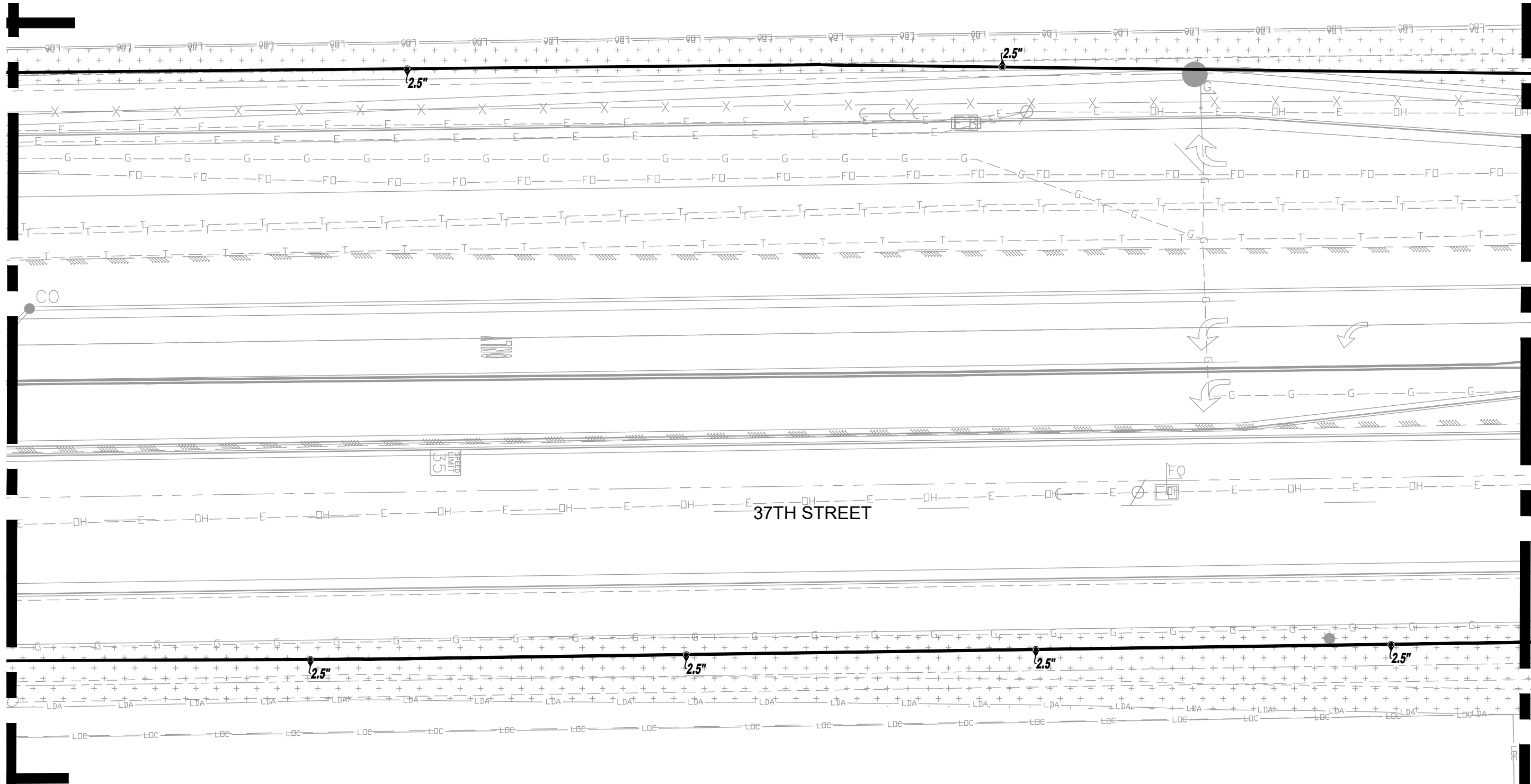
City of  
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FREEDOM  
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	No Revisions:		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 184
		Subset Sheets: 8 of 30	

MATCHLINE SEE SHEET IR2.4

MATCHLINE SEE SHEET IR2.6



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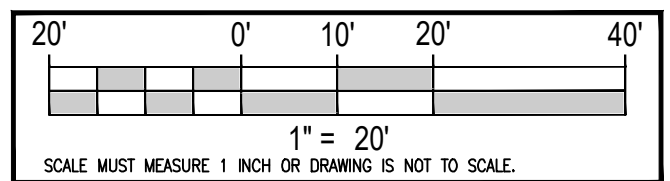
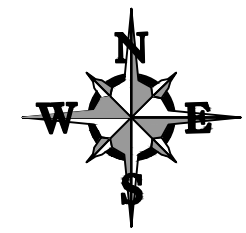


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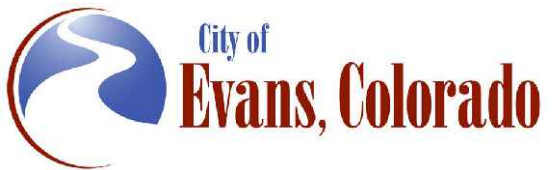
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Date:	Comments	Init.



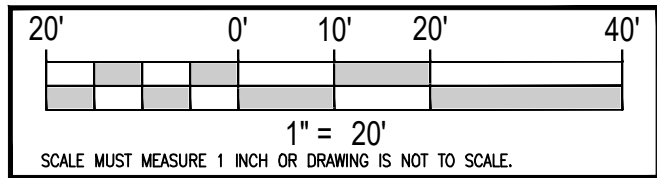
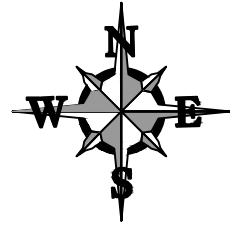
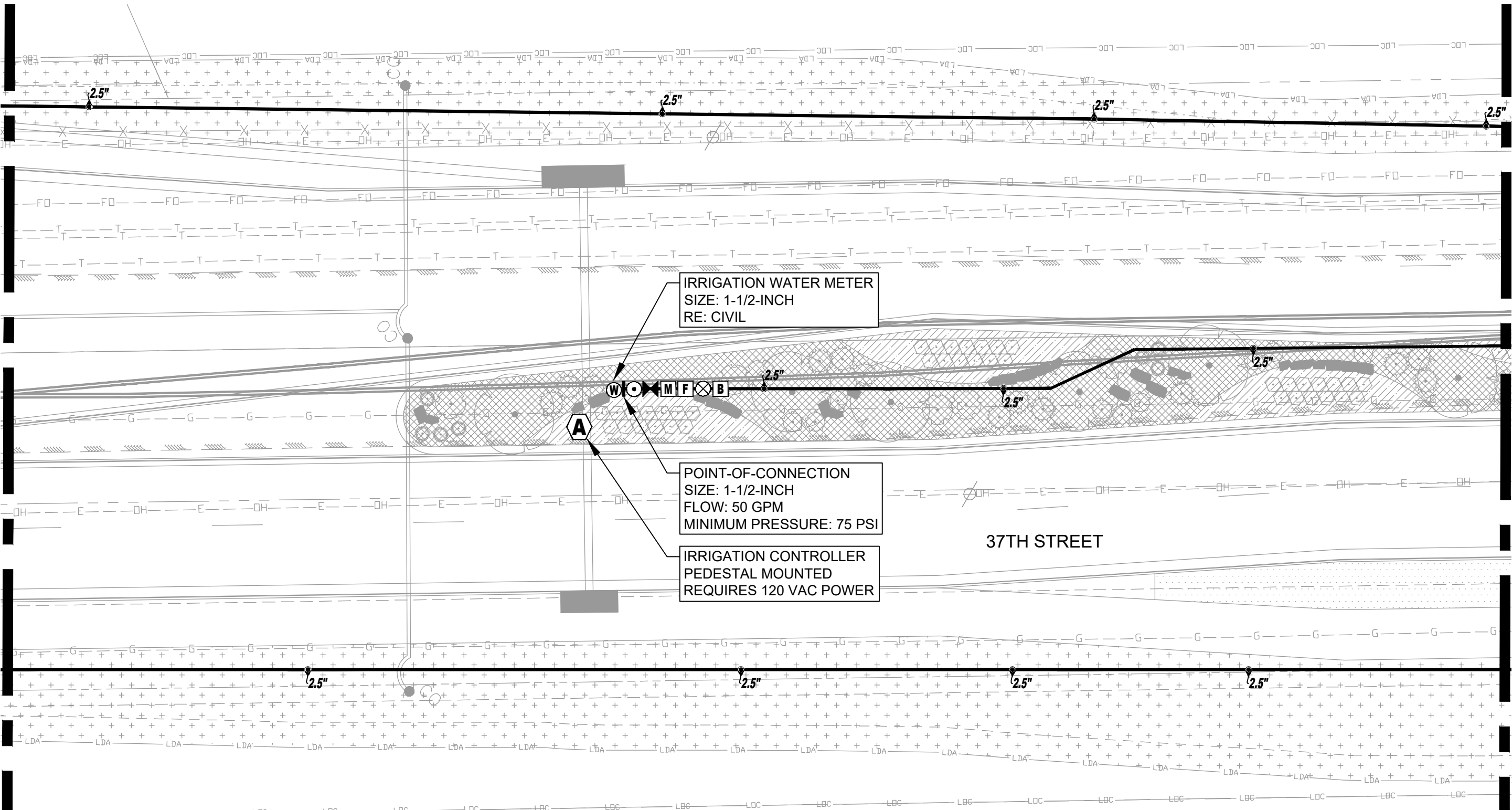
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Detailer:	JHK	Numbers	
Sheet Subset:	IRRIGATION	Subset Sheets:	9 of 30

Project No.	AQC M415-021
Drawing Number	IRR
Sheet Number	182

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MATCHLINE SEE SHEET IR2.7



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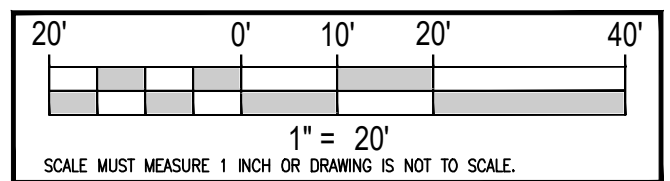
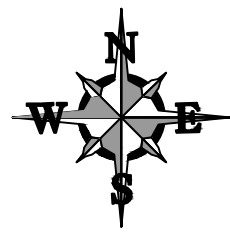
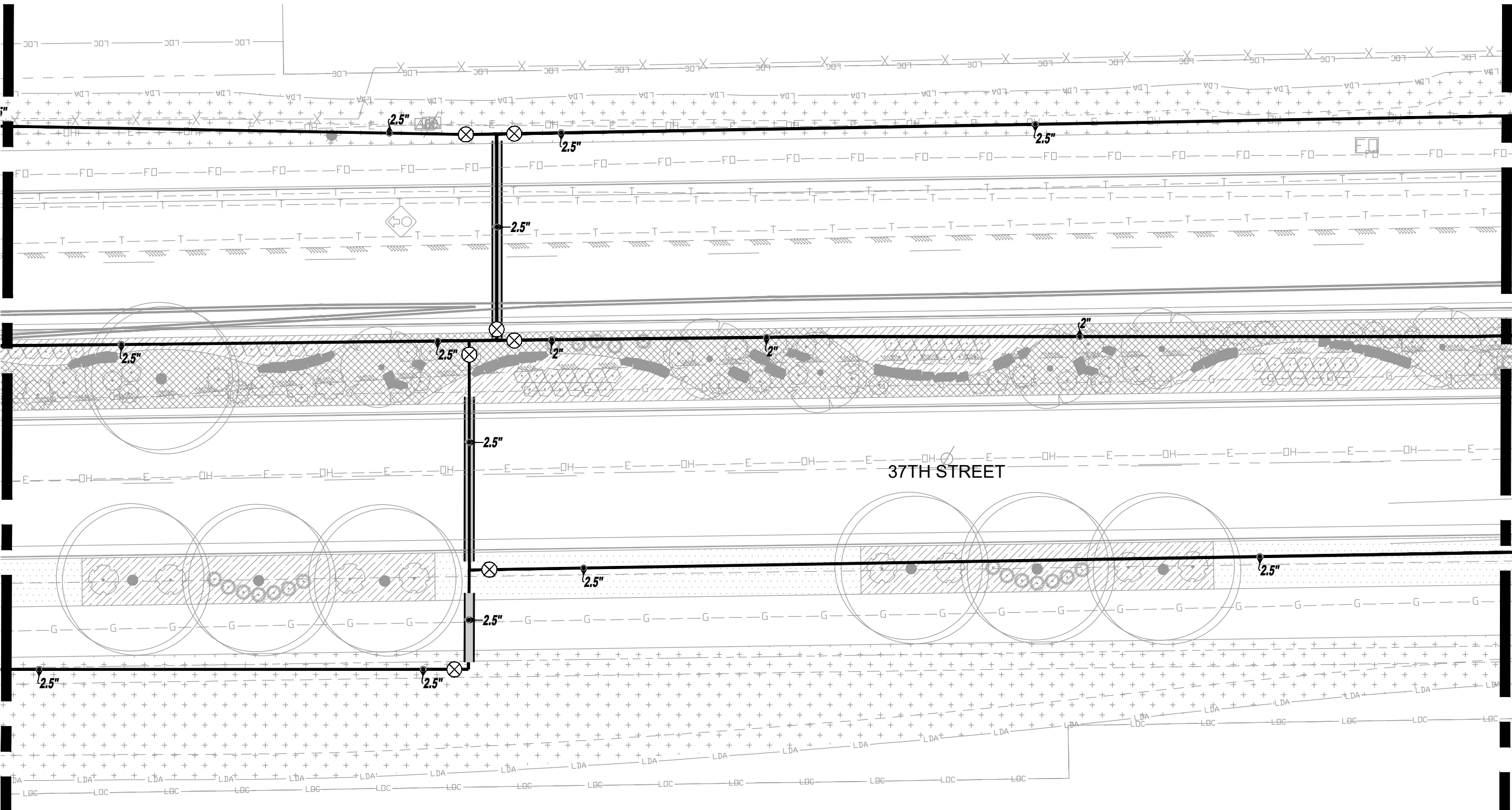
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Drawing Number	IRR
Sheet Number	1 of 3

MATCHLINE SEE SHEET IR2.6

MATCHLINE SEE SHEET IR2.8



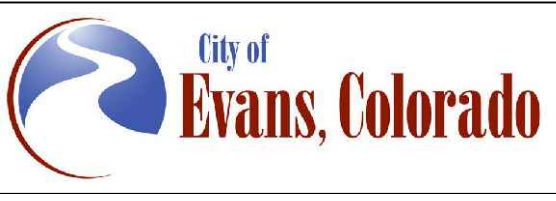
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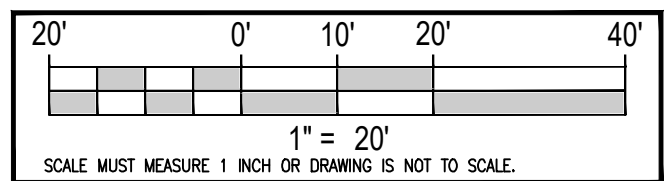
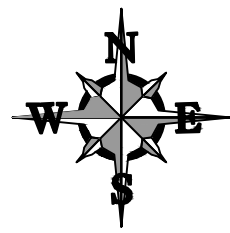
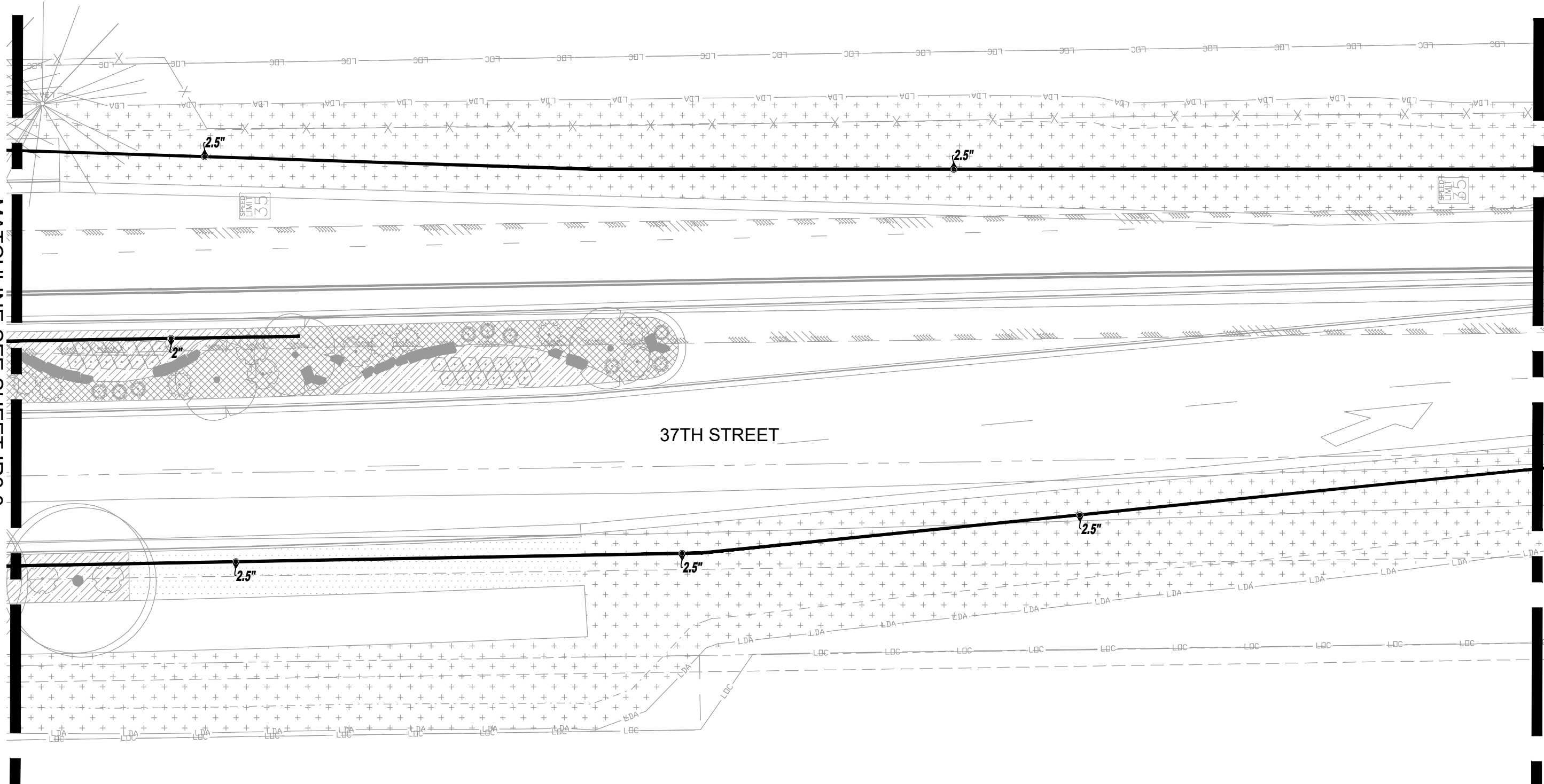
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Project No.	AQC M415-021
Drawing Number	IRR
Sheet Number	124



MATCHLINE SEE SHEET IR2.8

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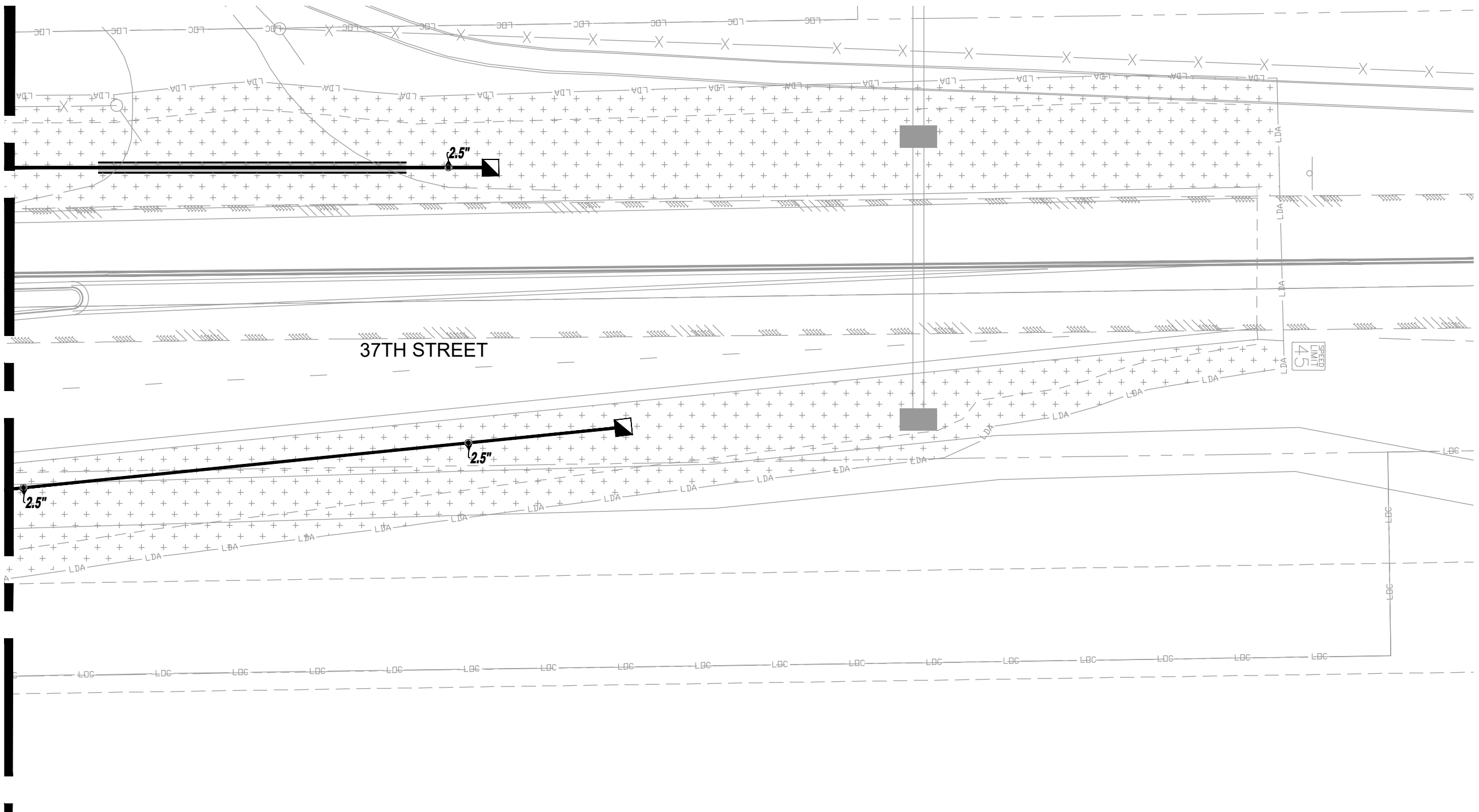
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City of  
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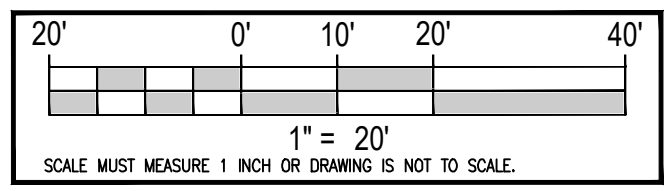
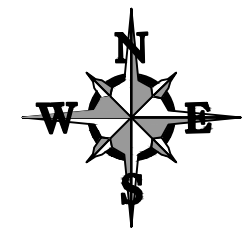


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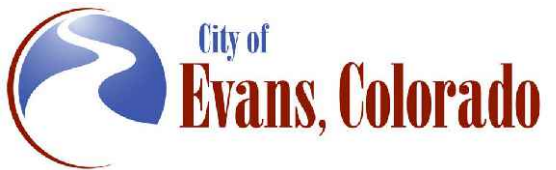
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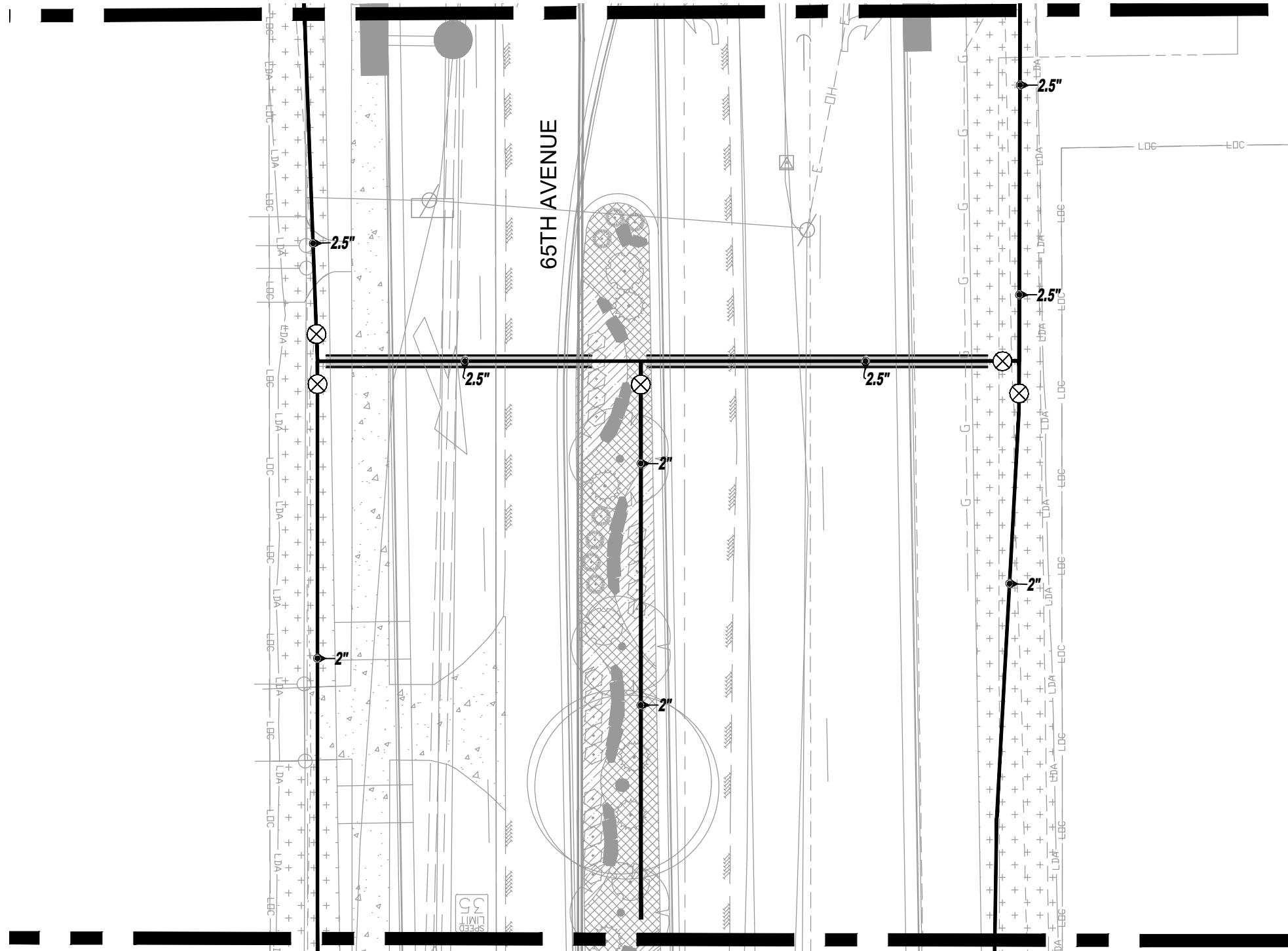


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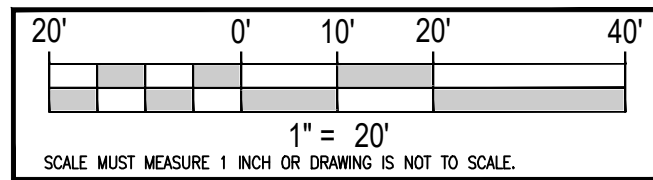
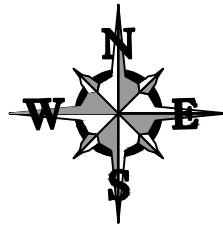
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Project No.	AQC M415-021
Drawing Number	IRR
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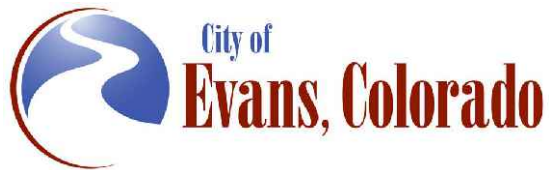
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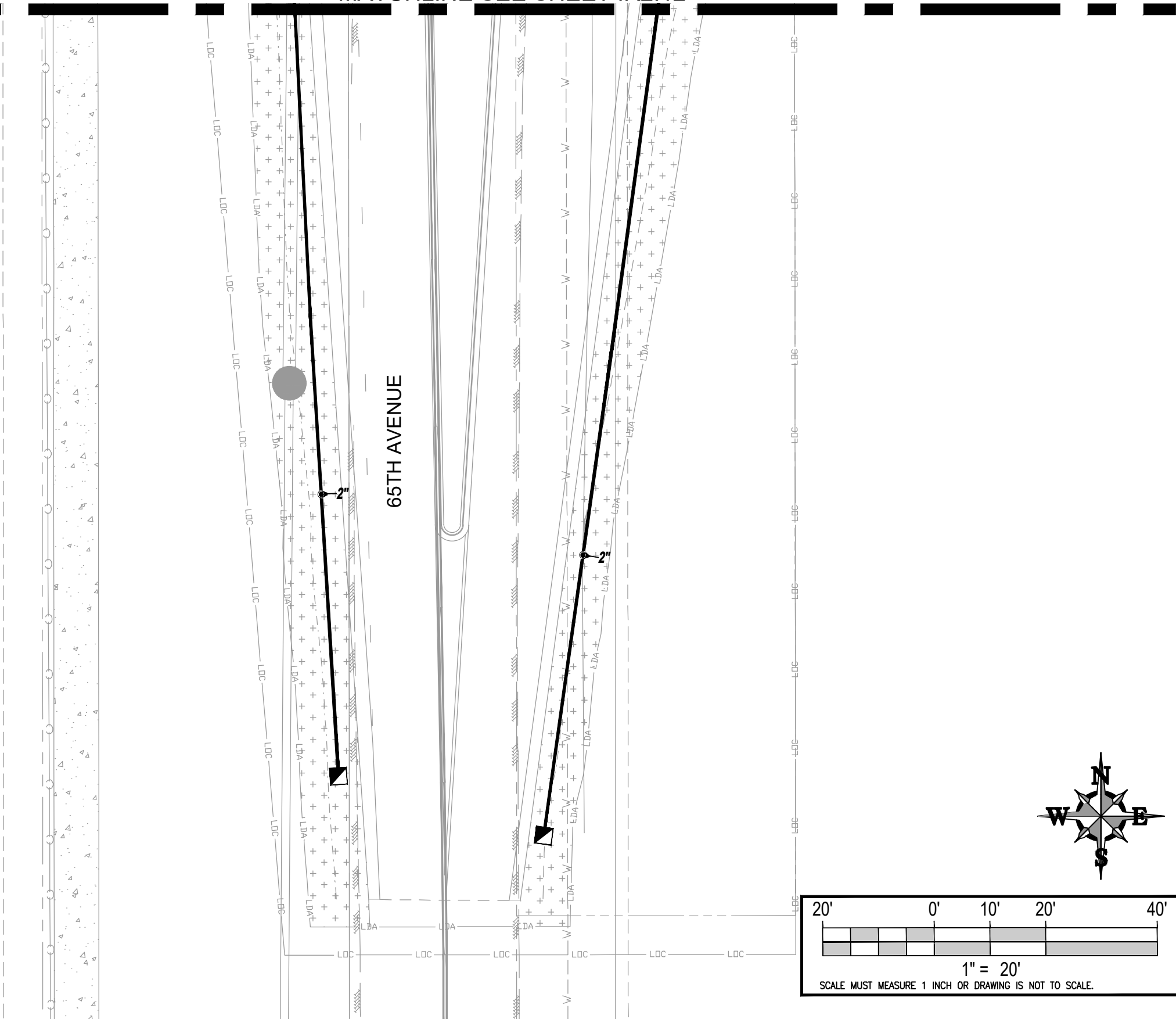
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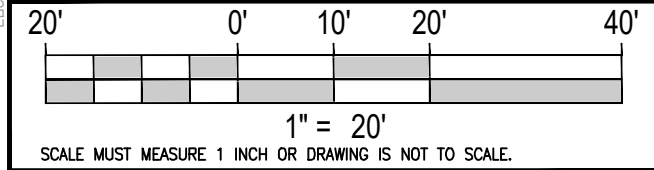
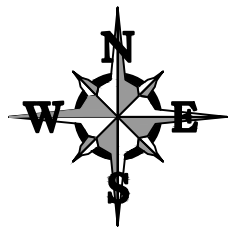
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Drawing Number	IRR
Sheet Number	1938



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65TH AVENUE



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Sheet Revisions		
Date:	Comments	Init.

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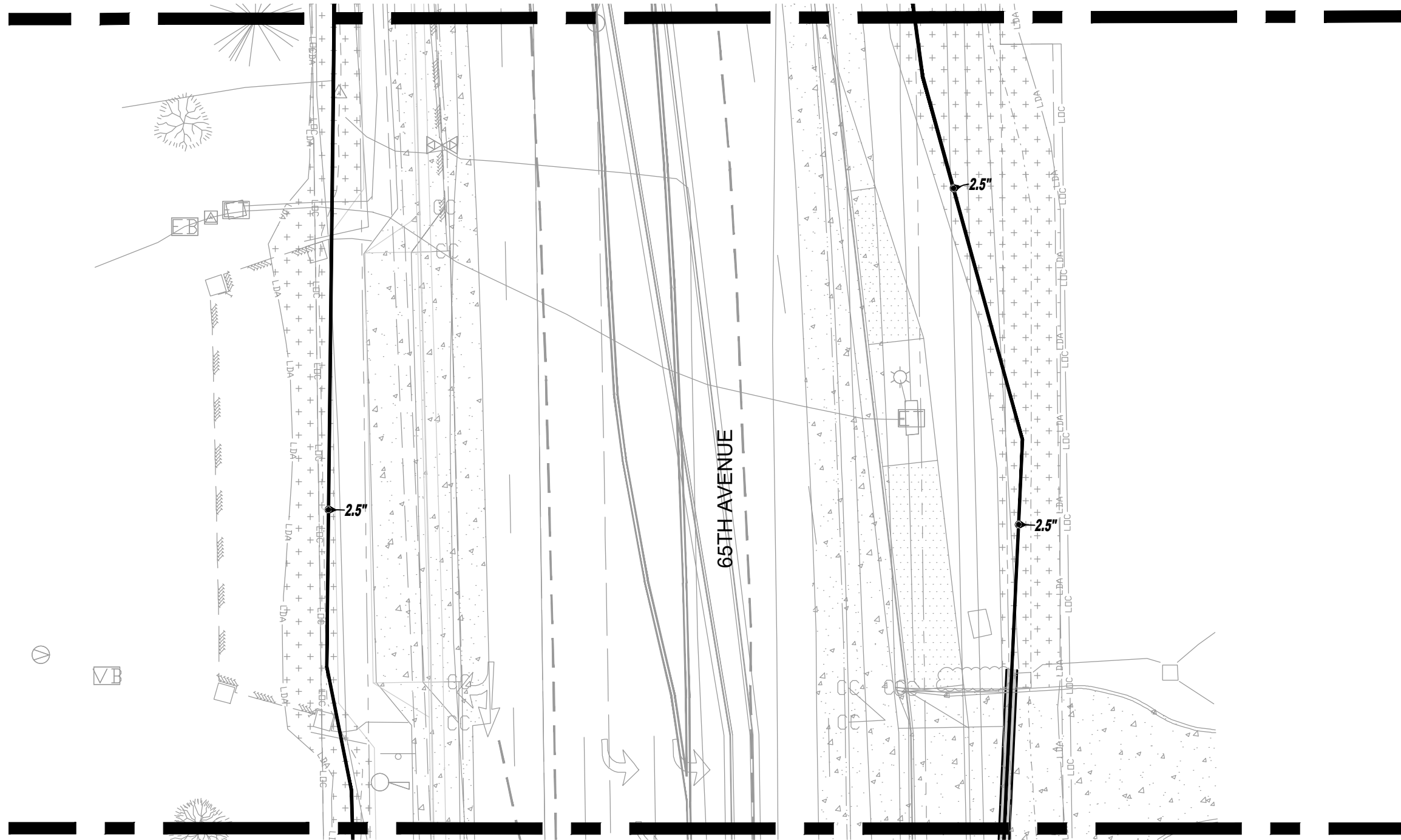
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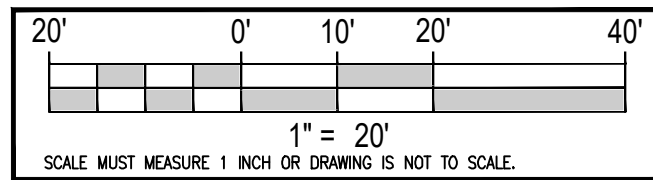
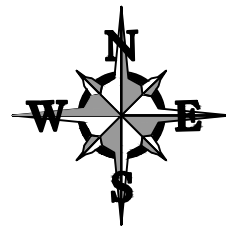
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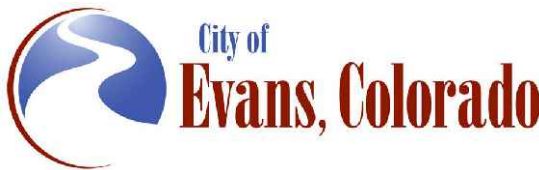
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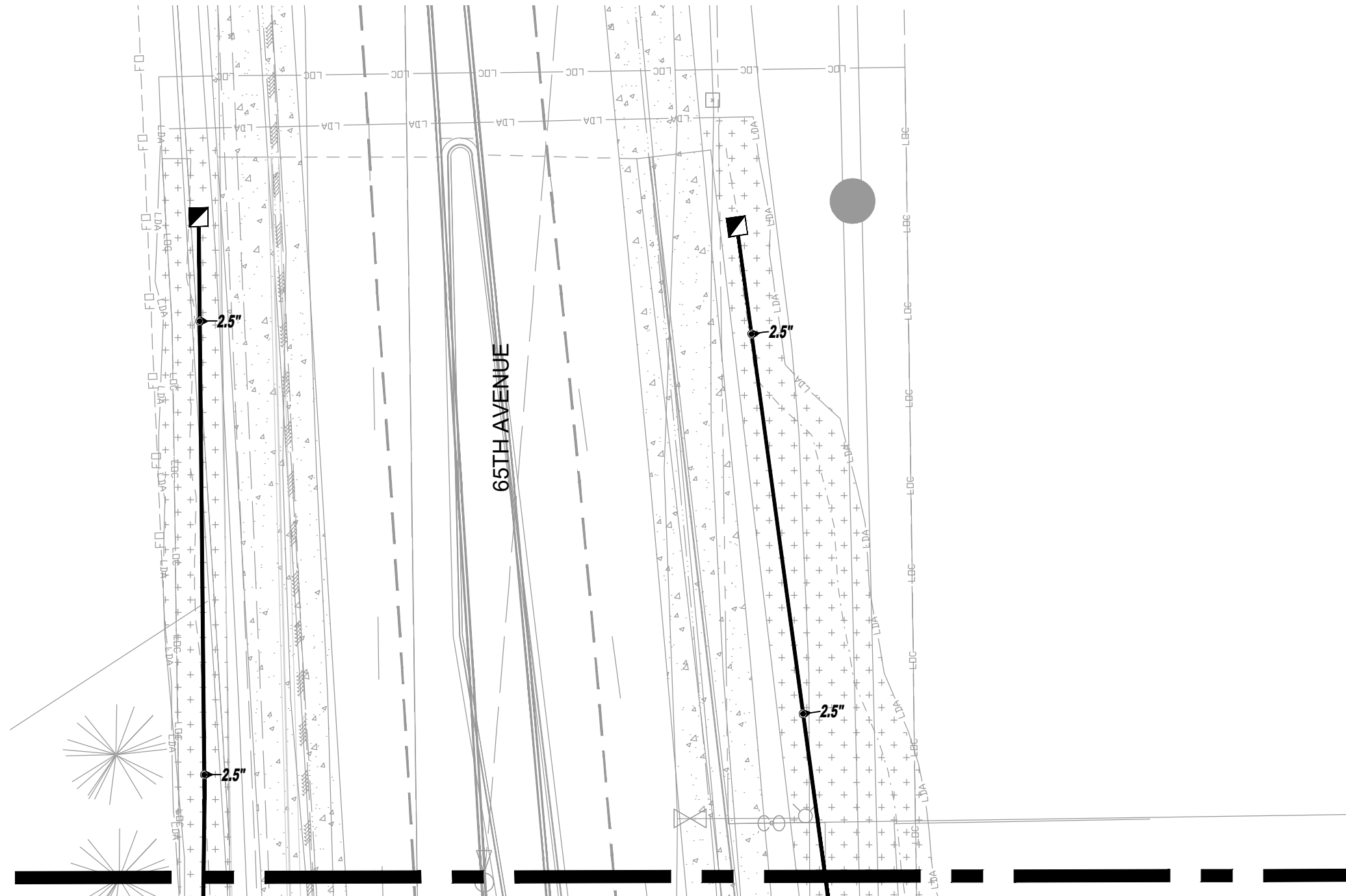
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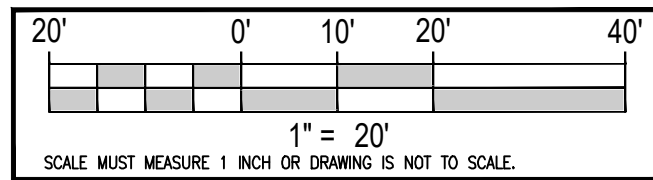
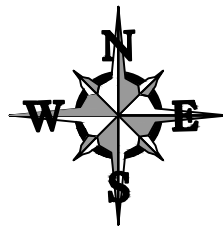
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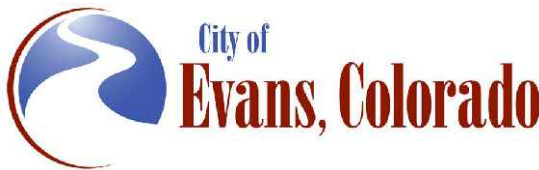
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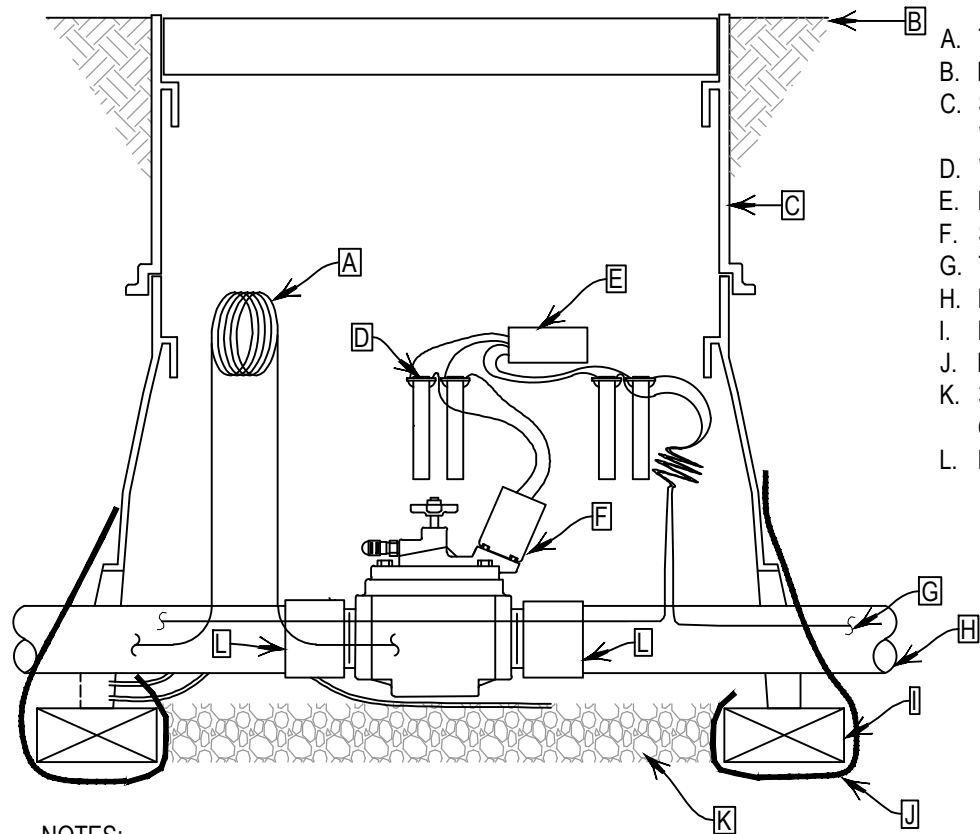
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Detailer:	JHK
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Project No.	AQC M415-021
Drawing Number	IRR
Sheet Number	IR2.15

Structure Numbers  
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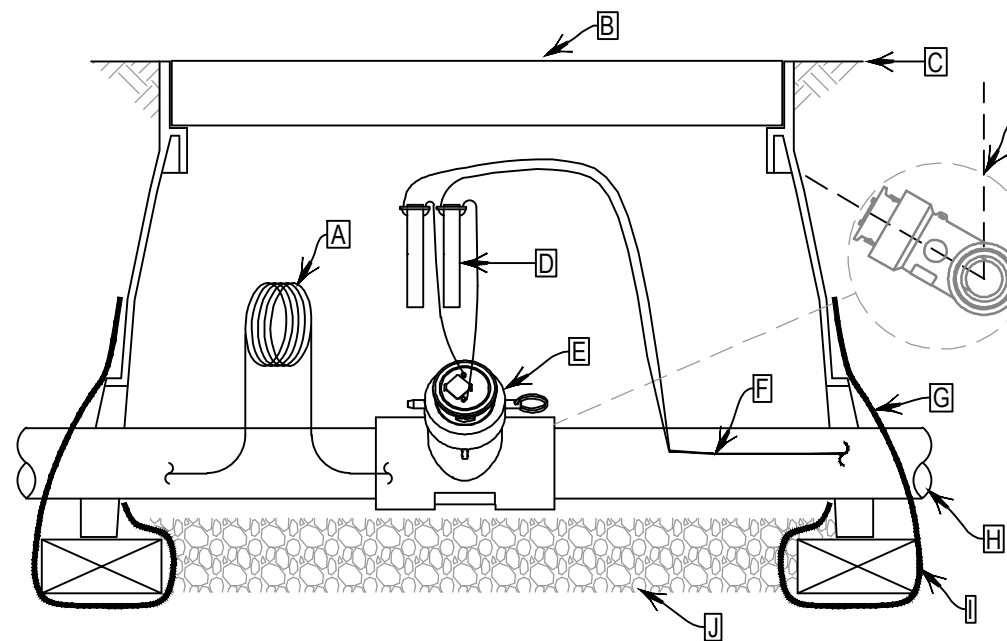




- A. TRACING WIRE
- B. FINISH GRADE/TOP OF MULCH
- C. STANDARD RECTANGULAR VALVE BOX W/ EXTENSION
- D. WIRE SPLICE, TYPICAL
- E. DECODER
- F. SOLENOID VALVE
- G. TWO-WIRE CABLE
- H. PVC MAINLINE
- I. BRICK (1 OF 4)
- J. FILTER FABRIC
- K. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- L. PVC SCH 40 MALE ADAPTER

- NOTES:
1. USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
  2. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
  3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
  4. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.
  5. POSITION VALVE BOX OVER VALVE TO ALLOW ACCESS TO SOLENOID.
  6. INSTALL SO THAT NO GRAVEL IS IN CONTACT WITH VALVE ASSEMBLY.

**1** MASTER VALVE ASSEMBLY **M**  
N.T.S.



- A. TRACING WIRE
- B. VALVE BOX WITH COVER
- C. FINISH GRADE/TOP OF MULCH
- D. WATER-PROOF WIRE SPLICE
- E. FLOW SENSOR
- F. CONTROL WIRE
- G. FILTER FABRIC
- H. PVC PIPE
- I. BRICK (1 OF 4)
- J. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- K. INSTALL SENSOR ROTATED BETWEEN 60° AND 90° FOR BEST PERFORMANCE

- NOTES:
1. ALLOW 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM OF STRAIGHT RUN OF PIPE FOR BEST ACCURACY.
  2. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.
  3. INSTALL SO THAT GRAVEL IS ONLY IN CONTACT WITH BOTTOM OF SENSOR ASSEMBLY.
  4. FOR PIPE SIZES 6"-12" THE FLOW SENSOR IS INSTALLED ON THE PIPE WITH A SADDLE.

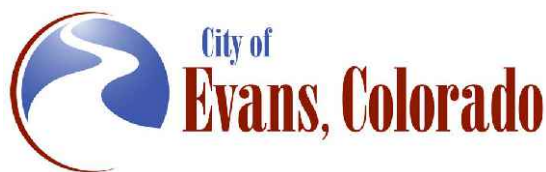
**2** FLOW SENSOR ASSEMBLY **F**  
N.T.S.

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 Print Date: 08-22-2024  
 File Name: P-37TH STREET AND 65TH AVE.DWG  
 Horiz. Scale: As Noted Vert. Scale: As Noted  
 PRIME CONSULTANT: RockSol Consulting Group, Inc. SUB CONSULTANT: bha  
 City of Evans, Colorado  
 FREEDOM Parkway

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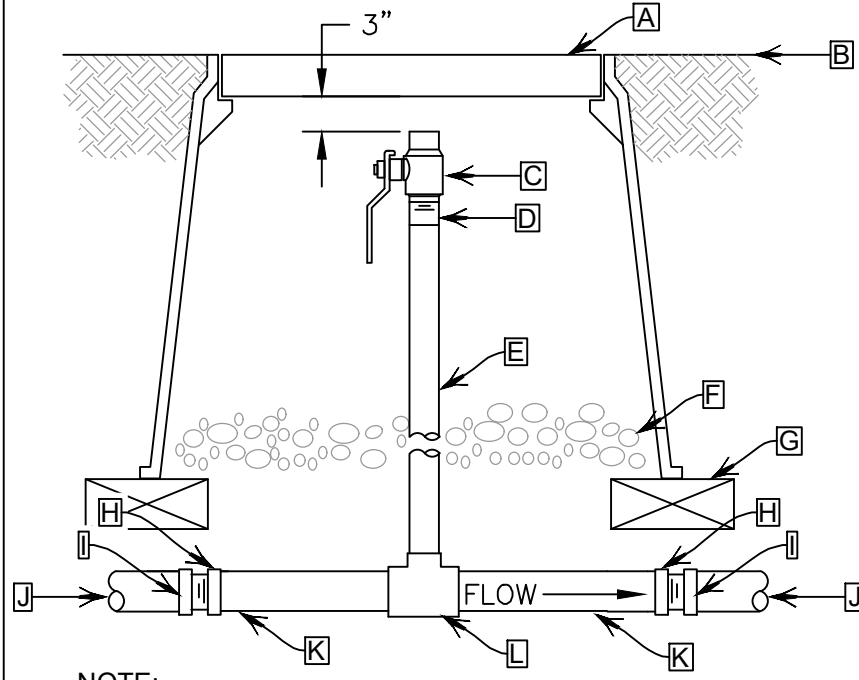
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 File Name: P-37TH STREET AND 65TH AVE.DWG  
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 PRIME CONSULTANT: Consulting Group, Inc. SUB CONSULTANT:

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Date:	Comments	Init.



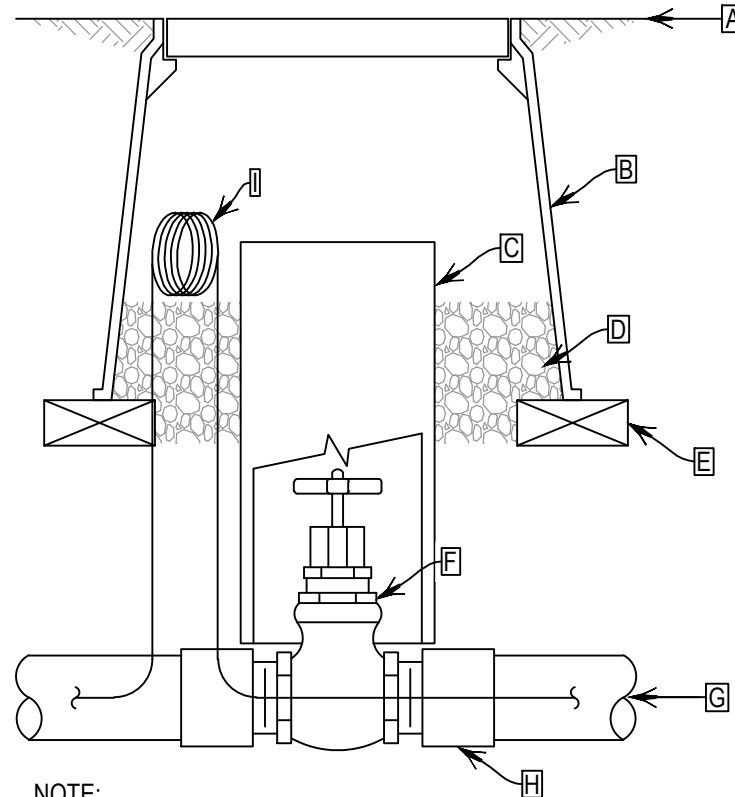
As Constructed	37TH STREET WIDENING PHASE 2A		Project No.
No Revisions:	IRRIGATION DETAILS		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 125
		Subset Sheets: 22 of 30	

- A. 12" STANDARD VALVE BOX WITH COVER
- B. FINISH GRADE/TOP OF MULCH
- C. 1" BRONZE BALL VALVE FEMALE THREADED ENDS
- D. 1" COPPER MALE ADAPTER
- E. 1" COPPER PIPE (LENGTH AS REQUIRED)
- F. 3" MIN. DEPTH OF 3/4" WASHED GRAVEL
- G. BRICK (1 OF 4)
- H. COPPER FEMALE THREADED ADAPTER
- I. SCH. 40 PVC MALE THREADED ADAPTER
- J. PVC MAINLINE
- K. COPPER PIPE
- L. COPPER TEE



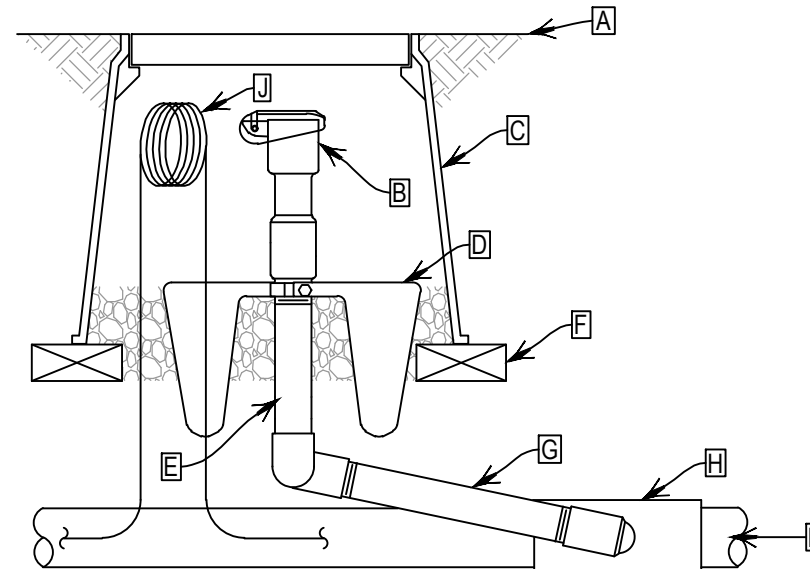
NOTE:  
1. FURNISH NOMINAL PIPE AND FITTING SIZES IDENTICAL WITH NOMINAL TAP SIZE UNLESS OTHERWISE NOTED.

- A. FINISH GRADE/TOP OF MULCH
- B. 10" ROUND VALVE BOX WITH COVER
- C. 6" PVC CL 200 PIPE (LENGTH AS REQUIRED)
- D. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- E. BRICK (1 OF 2)
- F. THREADED BRONZE GATE VALVE WITH SOLID WEDGE, NON-RISING STEM
- G. PVC MAINLINE
- H. PVC SCH 40 MALE ADAPTER (1 OF 2)
- I. TRACING WIRE



NOTE:  
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

- A. FINISH GRADE/TOP OF MULCH
- B. QUICK-COUPLING VALVE
- C. 10" ROUND VALVE BOX WITH COVER
- D. HARCO QUICK COUPLER ANCHOR
- E. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED)
- F. BRICK (1 OF 2)
- G. PRE-FABRICATED UNITIZED SWING JOINT 1" MIPT INLET X SOC OUTLET
- H. TEE OR EL: SEE SPECIFICATIONS FOR MATERIALS
- I. PVC MAINLINE PIPE
- J. TRACING WIRE



NOTES:  
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.  
2. INSTALLATION HEIGHT OF QUICK COUPLER VALVE IN VALVE BOX MUST ALLOW PROPER OPERATION OF QUICK COUPLER KEY.  
3. INSTALL SWING JOINT LAY ARM BETWEEN 30° AND 45° OF LATERAL PIPE IN ORDER TO ABSORB DOWNWARD IMPACT.

**1 BLOW OUT ASSEMBLY** B  
N.T.S.

**2 ISOLATION GATE VALVE ASSEMBLY** ⊗  
N.T.S.

**3 QUICK COUPLING VALVE ASSEMBLY** Ⓜ  
N.T.S.

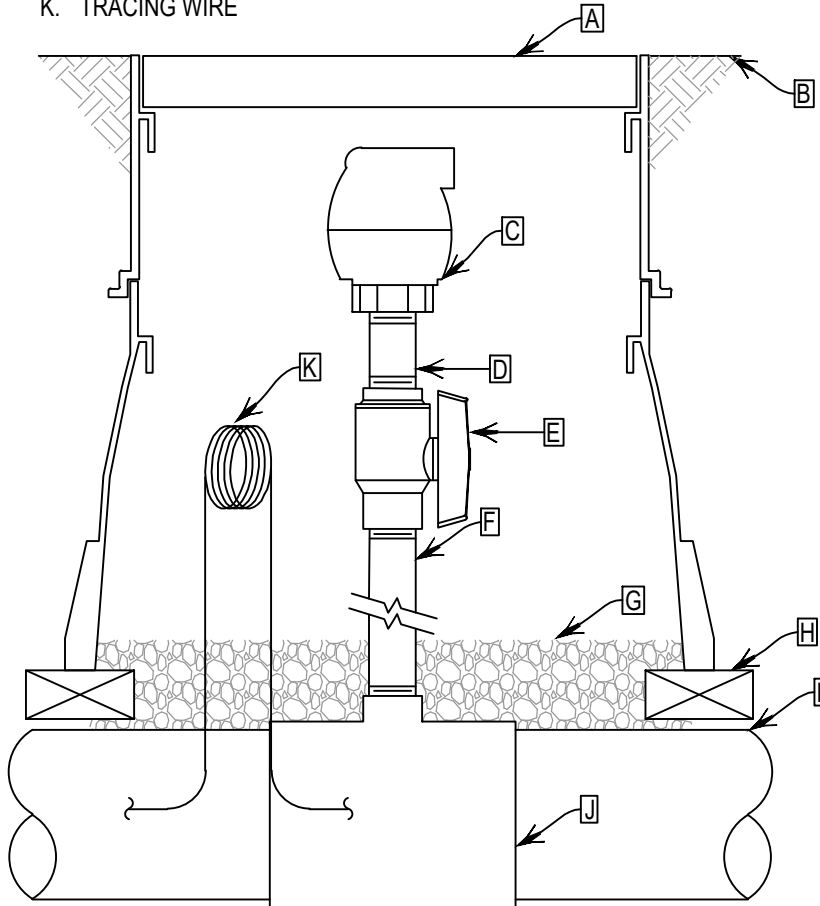
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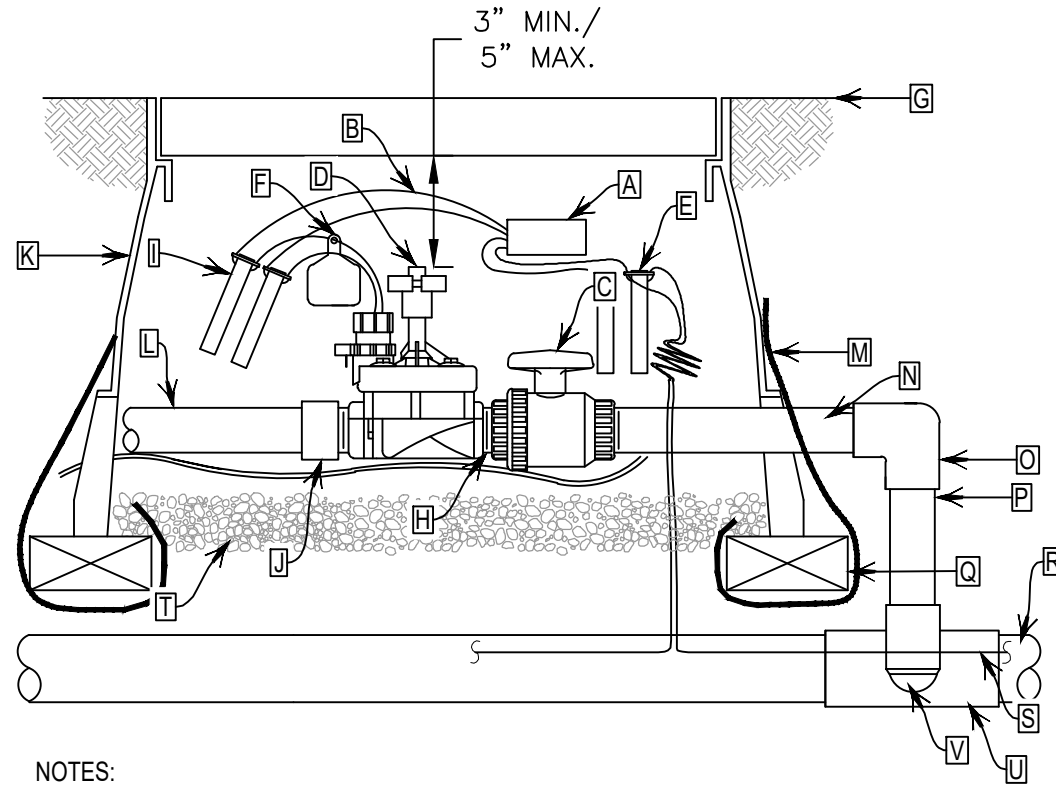
As Constructed	37TH STREET WIDENING PHASE 2A		Project No.
No Revisions:	IRRIGATION DETAILS		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 17 of 26
		Subset Sheets: 23 of 30	

- A. JUMBO VALVE BOX WITH EXTENSION AND COVER (HEIGHT AS REQUIRED)
- B. FINISH GRADE/TOP OF MULCH
- C. AIR VACUUM RELIEF VALVE
- D. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- E. PVC SCH 40 BALL VALVE (SIZE 1")
- F. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- G. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- H. BRICK (1 OF 4)
- I. PVC MAINLINE PIPE
- J. TEE OR EL: SEE SPECIFICATIONS FOR MATERIALS
- K. TRACING WIRE



- NOTES:
1. OPEN BALL VALVE IN ASSEMBLY 1/4 TURN UNTIL IRRIGATION SYSTEM IS FULLY CHARGED WITH WATER.
  2. CLOSE VALVE DURING WINTERIZATION AND OPEN 1/2 TURN AFTER WINTERIZATION OF SYSTEM TO PROTECT VALVE DURING FREEZING WEATHER.
  3. REPLACE PVC BALL VALVE WITH BRASS BALL VALVE IN THE EVENT AN AIR VACUUM RELIEF VALVE WITH MALE INLET IS USED.

**1 AIR VACUUM RELIEF VALVE ASSEMBLY** N.T.S.



- NOTES:
1. USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
  2. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
  3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
  4. TRANSITION TO PROPER LATERAL PIPE BURIAL DEPTH USING 45° ELBOW FITTINGS DOWNSTREAM OF REMOTE CONTROL VALVE ASSEMBLY.
  5. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.
  6. POSITION VALVE BOX OVER VALVE TO ALLOW ACCESS TO SOLENOID AND PROPER OPERATION OF BALL VALVE.
  7. COIL 3-FEET OF WIRE FOR EACH DECODER FOR SERVICE PURPOSES.



**2 REMOTE CONTROL VALVE ASSEMBLY** N.T.S.

- A. DECODER
- B. WIRE FROM DECODER TO VALVE SEE SPECIFICATIONS
- C. PVC BALL VALVE
- D. REMOTE CONTROL VALVE
- E. WIRE CONNECTOR FROM TWO-WIRE CABLE TO DECODER (1 OF 2)
- F. CHRISTY ID TAG
- G. FINISH GRADE
- H. PVC SCH 80 CLOSE NIPPLE
- I. WIRE CONNECTOR FROM DECODER TO SOLENOID VALVE (1 OF 2)
- J. PVC SCH 40 MALE ADAPTER
- K. 12" STANDARD VALVE BOX WITH COVER
- L. PVC LATERAL PIPE
- M. FILTER FABRIC
- N. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED)
- O. PVC SCH 40 EL
- P. PVC SCH 40 PIPE (LENGTH AS REQUIRED)
- Q. BRICK (1 OF 4)
- R. PVC MAINLINE
- S. TWO-WIRE CABLE
- T. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- U. TEE OR EL: SEE SPECIFICATIONS FOR MATERIALS
- V. PVC SCH 80 TOE NIPPLE (LENGTH AS REQUIRED, HIDDEN) AND PVC SCH 40 EL

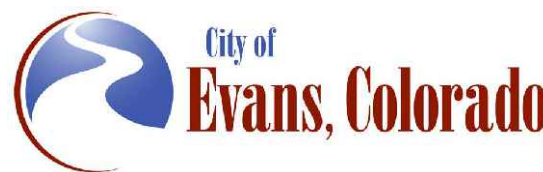
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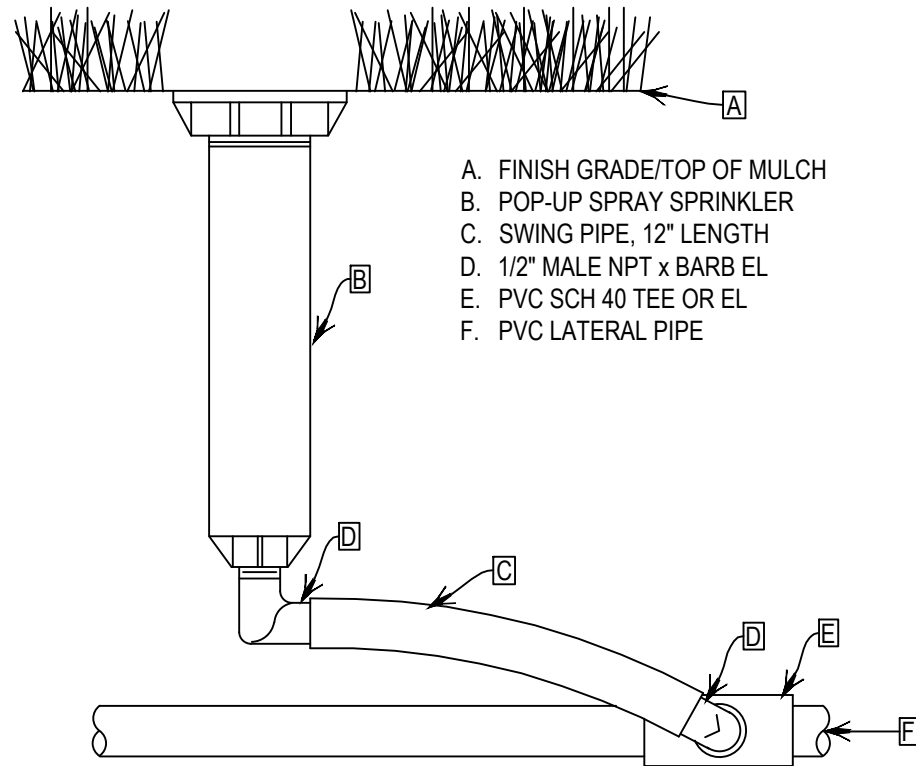
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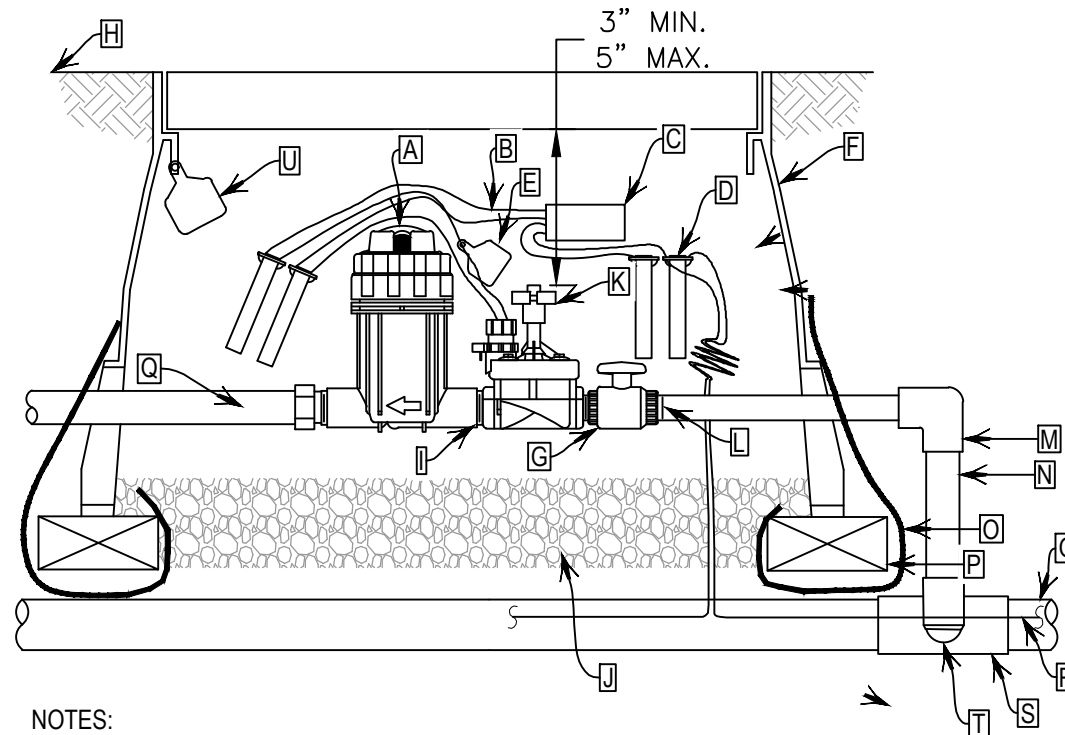
Sheet Revisions		
Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A		Project No.
No Revisions:	IRRIGATION DETAILS		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 12 of 27
		Subset Sheets: 24 of 30	



- A. FINISH GRADE/TOP OF MULCH
- B. POP-UP SPRAY SPRINKLER
- C. SWING PIPE, 12" LENGTH
- D. 1/2" MALE NPT x BARB EL
- E. PVC SCH 40 TEE OR EL
- F. PVC LATERAL PIPE



- A. PRESSURE REGULATING FILTER
- B. WIRE FROM DECODER TO VALVE  
SEE SPECIFICATIONS
- C. DECODER
- D. WIRE CONNECTOR FROM  
TWO-WIRE CABLE TO DECODER (1  
OF 2)
- E. CHRISTY I.D. TAG
- F. JUMBO VALVE BOX WITH COVER
- G. PVC BALL VALVE
- H. FINISH GRADE/TOP OF MULCH
- I. PVC SCH 80 NIPPLE
- J. 3" MINIMUM DEPTH OF 3/4" WASHED  
GRAVEL
- K. REMOTE CONTROL VALVE
- L. PVC SCH 80 TOE NIPPLE
- M. PVC SCH 40 EL
- N. PVC SCH 40 PIPE (TYPICAL)  
(LENGTH AS REQUIRED)
- O. FILTER FABRIC
- P. BRICK (1 OF 4)
- Q. MANIFOLD/DRIP LATERAL. SEE  
NOTE 8.
- R. TWO-WIRE CABLE
- S. TEE OR EL: SEE SPECIFICATIONS  
FOR MATERIALS
- T. PVC SCH 80 TOE NIPPLE (LENGTH  
AS REQUIRED, HIDDEN) AND PVC  
SCH 40 EL
- U. CHRISTY ID-MAX-P2-RC1P2 ID TAG.  
SECURE WITH ZIP TIE.

NOTES:

1. USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
2. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
4. TRANSITION TO PROPER LATERAL PIPE BURIAL DEPTH USING 45° ELBOW FITTINGS DOWNSTREAM OF REMOTE CONTROL VALVE ASSEMBLY.
5. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.
6. POSITION VALVE BOX OVER VALVE TO ALLOW ACCESS TO SOLENOID, AND PROPER OPERATION OF BALL VALVE.
7. COIL 3-FEET OF WIRE FOR EACH DECODER FOR SERVICE PURPOSES.
8. IN CASES OF DIRECT DRIP LATERAL PIPE CONNECTION INSTALL SCH. 40 PVC BARB FITTING TO PRESSURE REGULATING BASKET. SECURE CONNECTION WITH STAINLESS STEEL PINCH CLAMPS.
9. SEE DECODER GROUNDING SCHEMATIC FOR ADDITIONAL DECODER GROUNDING INFORMATION.

**1** POP-UP SPRAY SPRINKLER ASSEMBLY N.T.S.

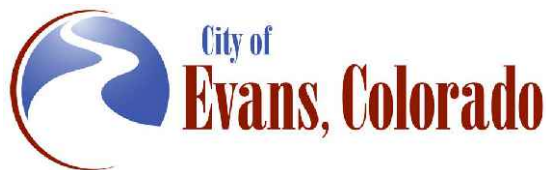
**2** DRIP REMOTE CONTROL VALVE ASSEMBLY N.T.S.

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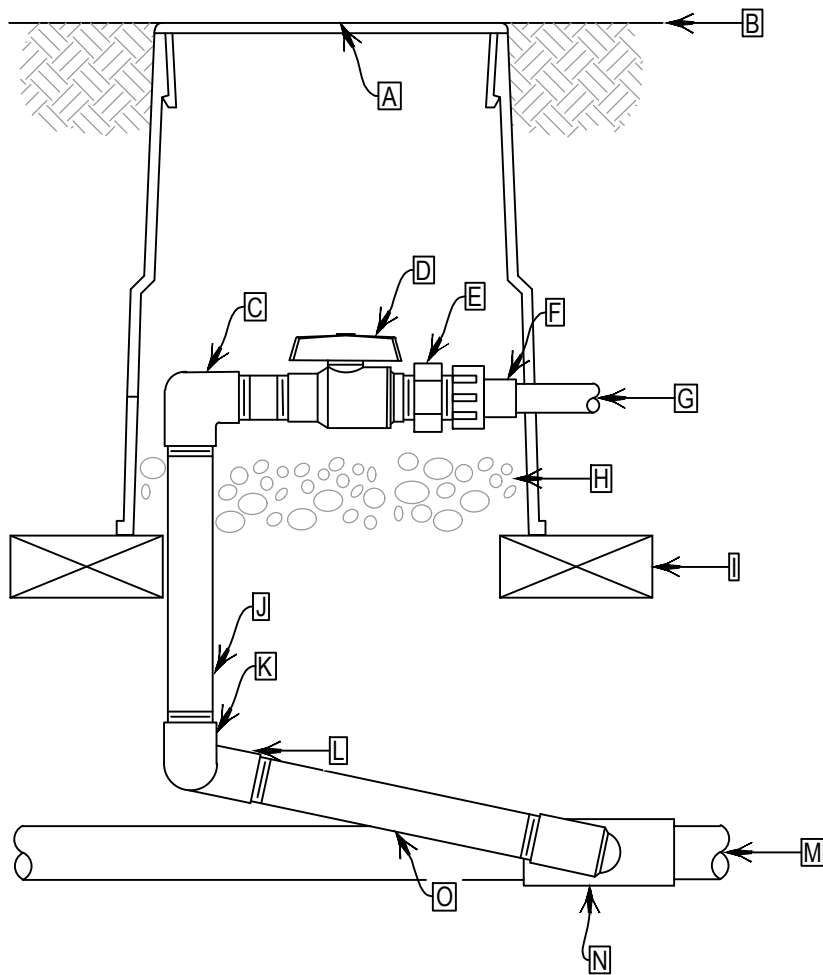
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 Consulting Group, Inc.

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Date:	Comments	Init.

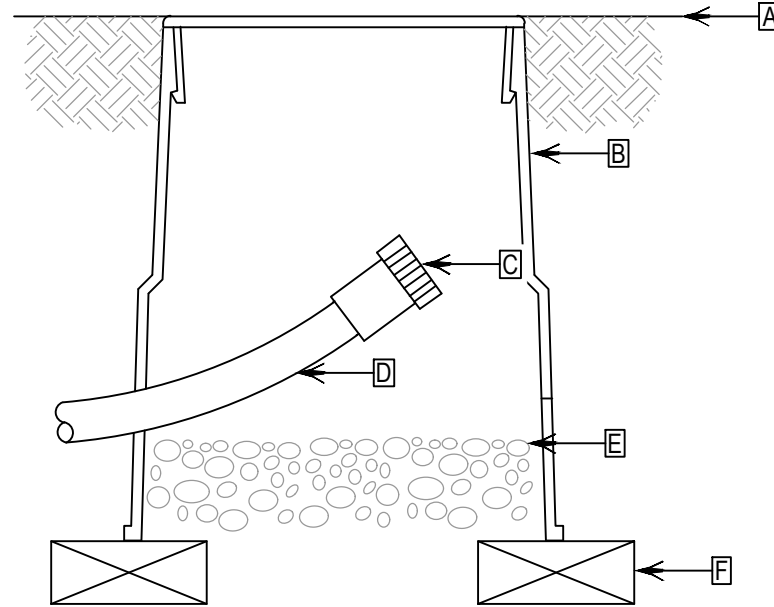


As Constructed	37TH STREET WIDENING PHASE 2A		Project No.
No Revisions:	IRRIGATION DETAILS		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 12 of 30

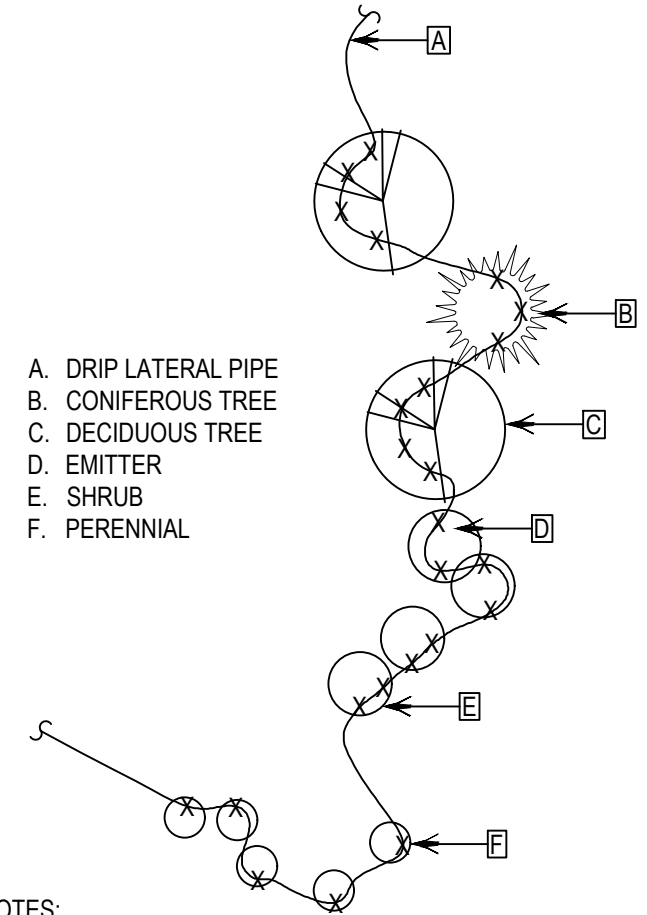
- A. 6" ROUND VALVE BOX WITH COVER
- B. FINISH GRADE/TOP OF MULCH
- C. PVC SCH. 40 EL
- D. PVC BALL VALVE
- E. PVC SCH. 40 TRANSITION NIPPLE (MIPTxMHT)
- F. COMPRESSIONxFEMALE HOSE SWIVEL ADAPTER
- G. DRIP LATERAL PIPING
- H. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- I. BRICK (1 OF 2)
- J. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED, 1 OF 2)
- K. PVC SCH 40 EL
- L. PVC SCH 40 STREET EL (1 OF 2)
- M. PVC DRIP MANIFOLD PIPE
- N. PVC SCH 40 TEE OR EL
- O. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)



- A. FINISH GRADE/TOP OF MULCH
- B. 6" ROUND VALVE BOX WITH COVER
- C. FLUSH CAP WITH HOSE THREAD CAP
- D. DRIP IRRIGATION LATERAL
- E. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- F. BRICK (1 OF 2)



NOTE:  
1. INSTALL FLUSH CAP ASSEMBLY AT THE END OF EACH DRIP LATERAL SEGMENT.



- A. DRIP LATERAL PIPE
- B. CONIFEROUS TREE
- C. DECIDUOUS TREE
- D. EMITTER
- E. SHRUB
- F. PERENNIAL

NOTES:  
1. EMITTERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO PERENNIALS AND AT THE OUTSIDE PERIMETER OF THE PLANTING PIT OF ALL SHRUBS AND TREES.  
2. INSTALL FOUR 1 GPH EMITTERS PER DECIDUOUS TREE.  
3. INSTALL THREE 1 GPH EMITTER PER CONIFEROUS TREE.  
4. INSTALL TWO 1 GPH EMITTER PER SHRUB.  
5. INSTALL ONE 1 GPH EMITTER PER PERENNIAL.

**1** ZONE CONTROL VALVE ASSEMBLY N.T.S.

**2** FLUSH CAP ASSEMBLY N.T.S.

**3** POINT SOURCE DRIP PLACEMENT DETAIL N.T.S.

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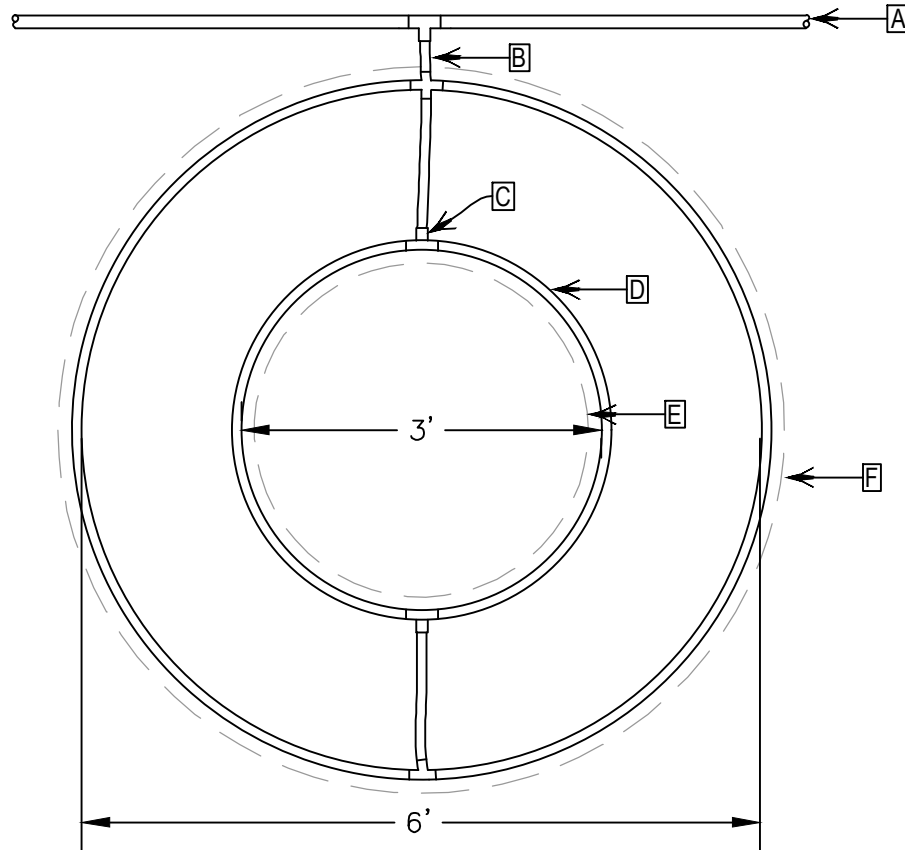
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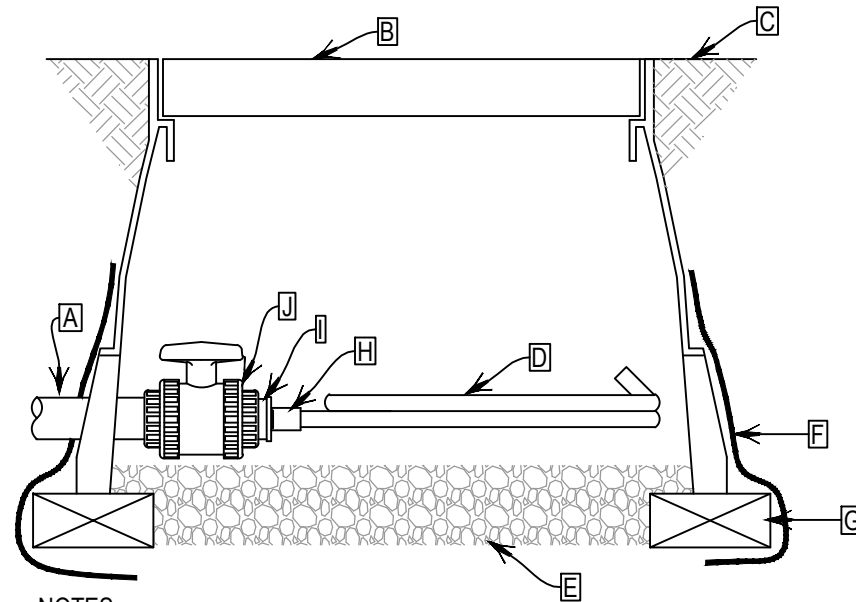
37TH STREET WIDENING PHASE 2A	
IRRIGATION DETAILS	
Designer:	JHK
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Structure Numbers	
Sheet Subset: IRRIGATION	Subset Sheets: 26 of 30

Project No.	AQC M415-021
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- A. PVC PIPE
- B. 3/4" POLYETHYLENE PIPE
- C. INLINE DRIP TUBING TEE FITTING
- D. INLINE DRIP TUBING
- E. TREE ROOTBALL
- F. ESTIMATED DRIPLINE OF TREE



- A. PVC PIPE
- B. 12" STANDARD VALVE BOX WITH COVER
- C. FINISH GRADE/TOP OF MULCH
- D. FLEXIBLE VINYL IRRIGATION HOSE: AQUARIUS BRANDS  
5/8" FLEX VINYL IRRIGATION HOSE
- E. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- F. FILTER FABRIC
- G. BRICK (1 OF 4)
- H. SCH 40 PVC HOSE FITTING: MIPT X HOSE FITTING
- I. SCH 40 PVC REDUCER BUSHING FITTING (SPIG X FIPT)
- J. TRUE UNION PVC BALL VALVE



- NOTE:
1. PROVIDE A 3-FT AND 6-FT DIAMETER RING OF INLINE DRIP TUBING AROUND EACH TREE ROOTBALL. TOTAL ESTIMATED FLOW PER TREE IS 0.4 GPM.
  2. INSTALL INLINE DRIP TUBING 4" BELOW GRADE AROUND EACH TREE.

- NOTES:
1. NOMINAL SIZE OF BALL VALVE TO MATCH NOMINAL LATERAL SIZE.
  2. USE FOR FLUSHING AND WINTERIZATION OF DRIP LATERAL.
  3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.



**1** INLINE DRIP RING ASSEMBLY 25  
N.T.S.

**2** INLINE DRIP FLUSH VALVE ASSEMBLY 1  
N.T.S.

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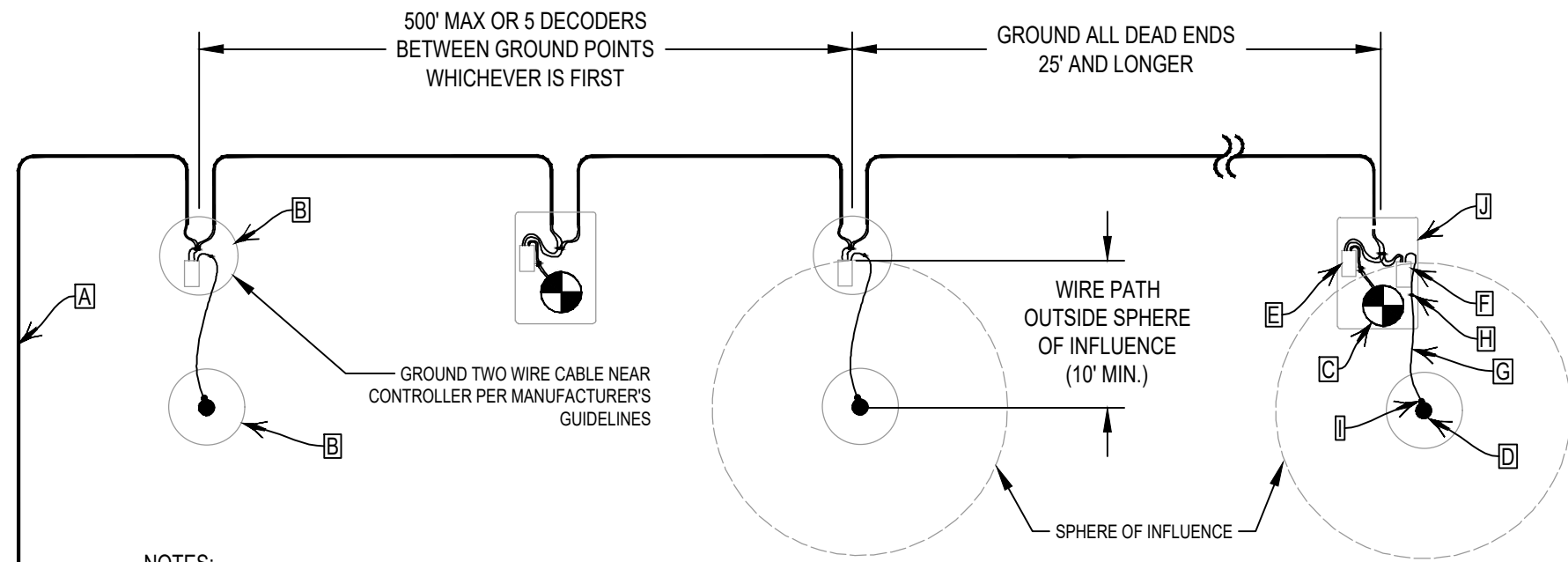
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PRIME CONSULTANT:	SUB CONSULTANT:
	

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Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A		Project No. AQC M415-021
	IRRIGATION DETAILS		
No Revisions:	Designer: JHK	Structure Numbers	Drawing Number IRR
Revised:	Detailer: JHK		
Void:	Sheet Subset: IRRIGATION	Subset Sheets: 27 of 30	

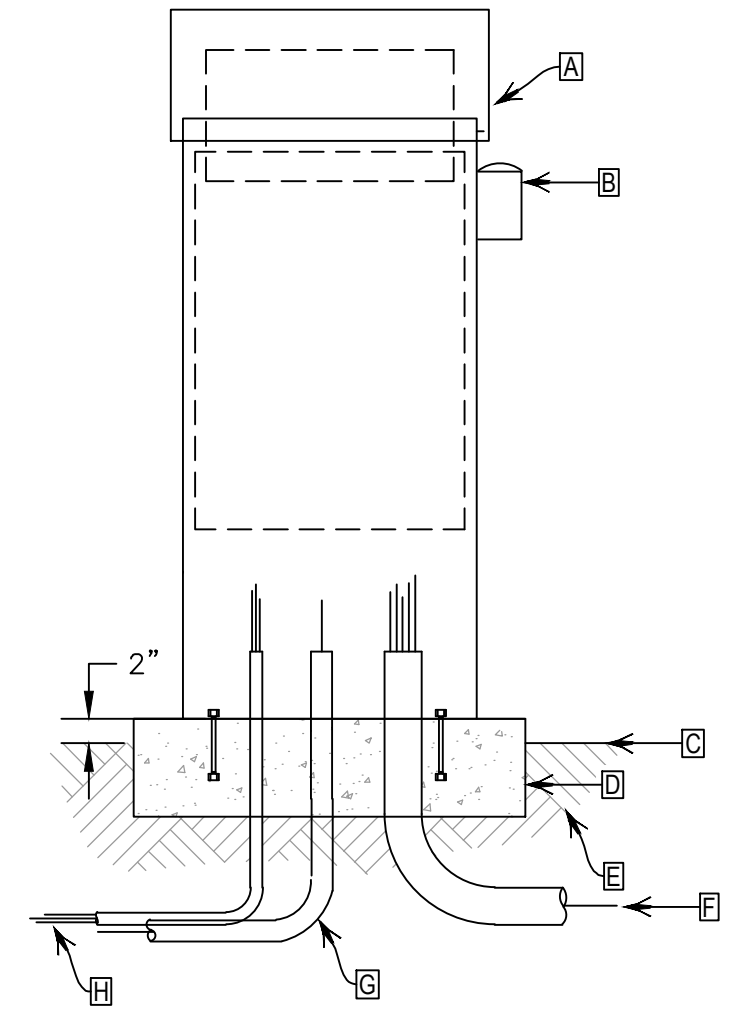
- A. IRRIGATION CONTROLLER ASSEMBLY
- B. RAIN SENSOR WITH VANDAL GUARD
- C. FINISH GRADE
- D. STRONG BOX QUICK PAD
- E. COMPACTED SUBGRADE
- F. 3" SCH 40 ELECTRICAL CONDUIT AND SWEEP EL FOR TWO WIRE CABLE
- G. 1" SCH 40 ELECTRICAL CONDUIT AND SWEEP EL FOR ELECTRICAL GROUNDING
- H. 1" SCH 40 ELECTRICAL CONDUIT AND SWEEP EL FOR ELECTRICAL SERVICE



NOTES:

1. ALL WIRE CONNECTION SHALL BE MADE WITH APPROVED CONNECTORS.
2. MAKE ALL WIRE SPLICES IN VALVE BOXES.
3. LEAVE A MINIMUM OF 5' EXTRA WIRE AT ALL SPLICE POINTS.
4. TEST EARTH TO GROUND RESISTANCE AT ALL GROUND POINTS.
5. EARTH TO GROUND RESISTANCE MUST MEET OR EXCEED MANUFACTURER REQUIREMENTS.
6. INSTALL ALL GROUND ASSEMBLIES IN VALVE BOXES.
7. INSTALL GROUNDING EQUIPMENT AS INDICATED ON THE IRRIGATION DOCUMENTS AND AS RECOMMENDED BY THE MANUFACTURER.

- A. TWO-WIRE CABLE
- B. VALVE BOX (10" ROUND OR AS NECESSARY)
- C. REMOTE CONTROL VALVE
- D. 5/8" X 8' U.L. LISTED GROUND ROD
- E. DECODER
- F. LINE SURGE PROTECTOR
- G. BARE AWG #10 COPPER WIRE
- H. S-6 SPLIT BOLT
- I. BARE COPPER CONNECTION ("CADWELD")
- J. REMOTE CONTROL VALVE ASSEMBLY



**A**

**1** TWO WIRE GROUNDING  
DETAIL

N.T.S.

**2** IRRIGATION CONTROLLER  
ASSEMBLY

**A**  
N.T.S.

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PRIME CONSULTANT: <b>RockSol</b> Consulting Group, Inc.	SUB CONSULTANT: <b>bha</b>

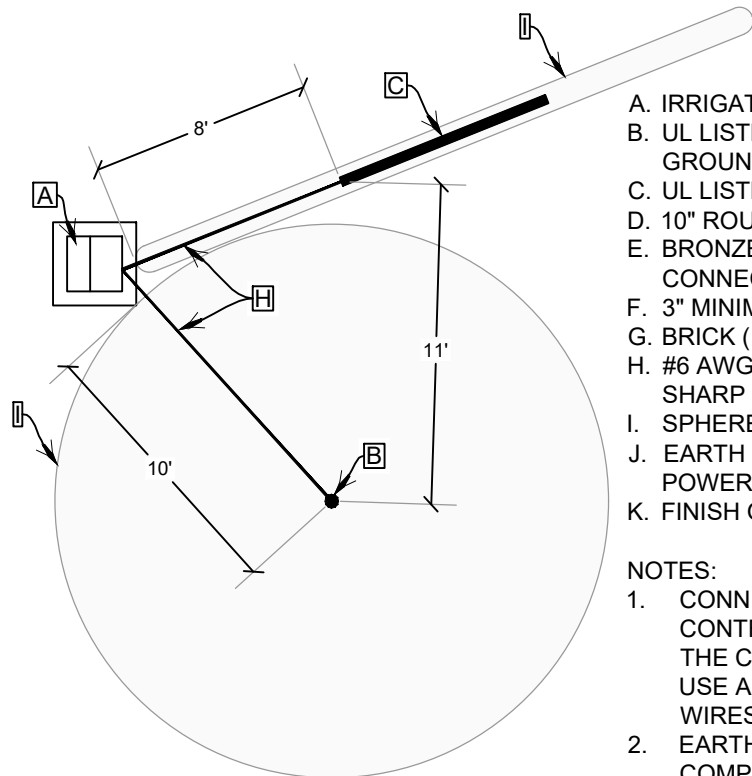
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As Constructed	No Revisions:
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37TH STREET WIDENING PHASE 2A IRRIGATION DETAILS	
Designer: JHK	Structure Numbers
Detailer: JHK	
Sheet Subset: IRRIGATION	Subset Sheets: 28 of 30

Project No. AQC M415-021
Drawing Number IRR
Sheet Number 187

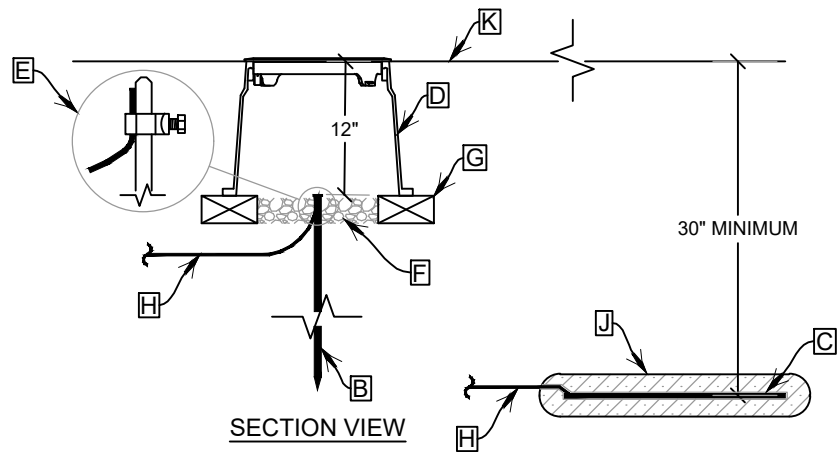


- A. IRRIGATION CONTROLLER ASSEMBLY
- B. UL LISTED 5/8" X 10' COPPER-CLAD GROUNDING ROD
- C. UL LISTED 4" X 8' COPPER GROUNDING PLATE
- D. 10" ROUND VALVE BOX WITH COVER
- E. BRONZE GROUND ROD CLAMP OR CADWELD CONNECTION: PAIGE ELECTRIC
- F. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- G. BRICK (1 OF 4)
- H. #6 AWG INSULATED SOLID COPPER WIRE. NO SHARP BENDS.
- I. SPHERE OF INFLUENCE
- J. EARTH CONTACT MATERIAL, POWERSSET® OR POWERFILL® DEPENDING ON SOIL CONDITIONS
- K. FINISH GRADE

**NOTES:**

1. CONNECT ALL #6 AWG WIRES INSIDE THE CONTROLLER. CONNECT ONE WIRE TO THE CONTROLLER GROUND LUG AND USE A #4 SPLIT BOLT TO CONNECT ALL WIRES TOGETHER.
2. EARTH CONTACT MATERIAL MUST COMPLETELY COVER THE WELD JOINT ON THE GROUND PLATE.

PLAN VIEW

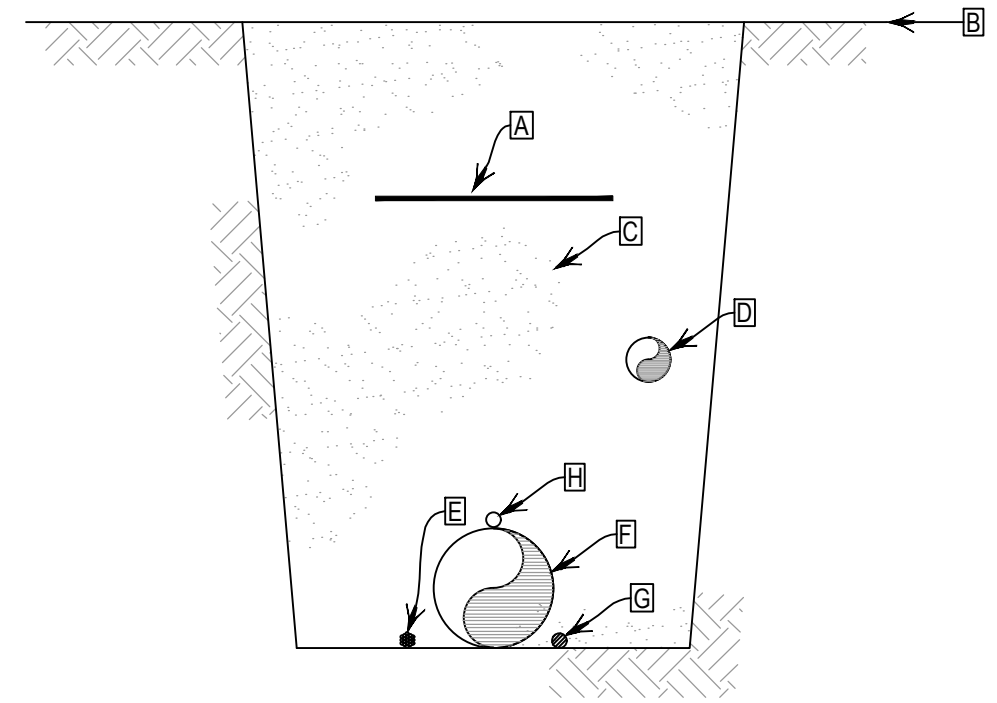


SECTION VIEW

**1** CONTROLLER GROUNDING  
DETAIL

N.T.S.

- A. WARNING TAPE
- B. FINISH GRADE
- C. BACKFILL
- D. LATERAL PIPE/MANIFOLD PIPE
- E. TWO WIRE CABLE
- F. MAINLINE PIPE
- G. SPARE TWO WIRE CABLE
- H. TRACING WIRE



**NOTE:**

1. REFER TO IRRIGATION SPECIFICATIONS FOR COVERAGE DEPTH TO BURIED PIPE AND WIRE.

**2** TRENCH  
DETAIL

N.T.S.

PIA Date: 8/22/2024 2:15 PM. Plotted By: Jason H. McNamee  
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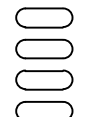
300 Boardwalk Drive, Unit 4B  
 Fort Collins, CO 80525-3093  
 970.229.9668  
 www.aquaengineering.com

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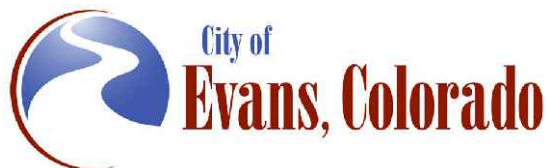
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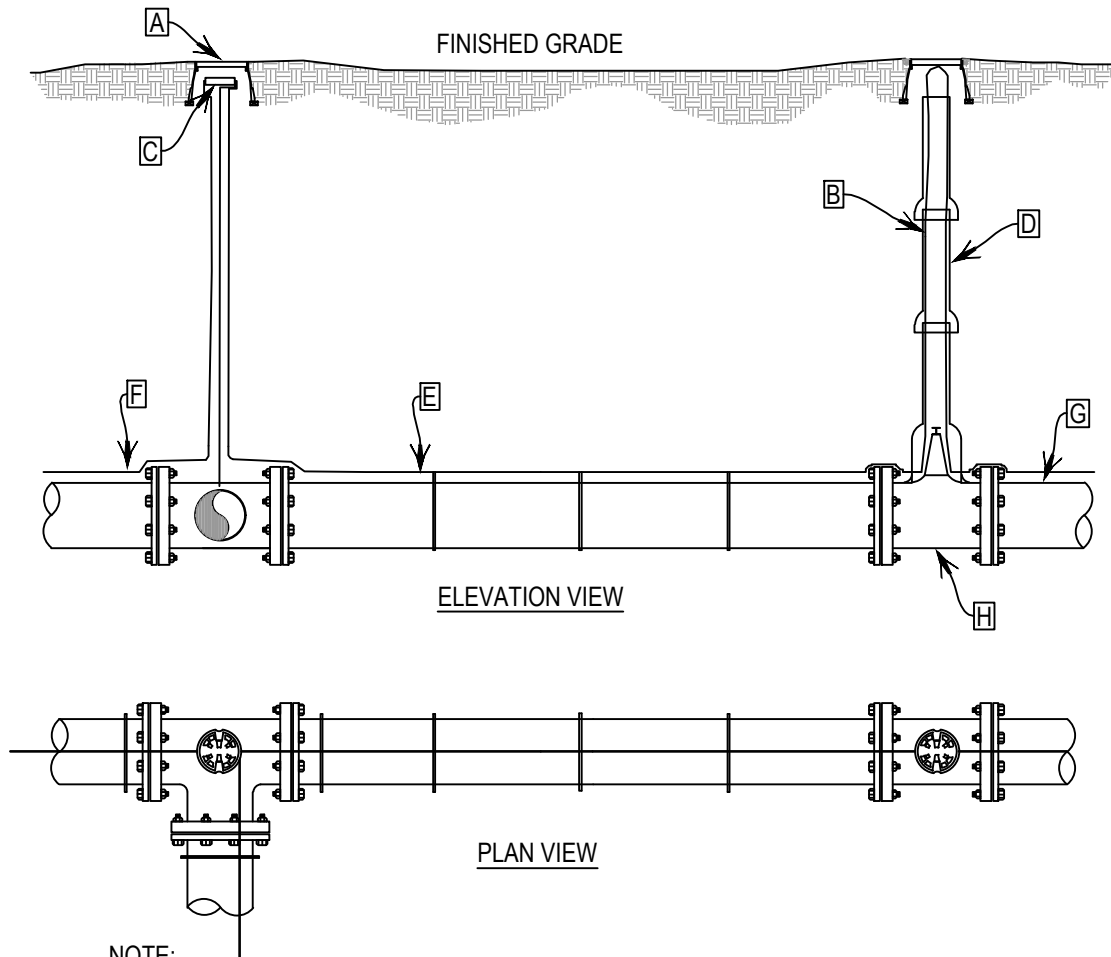
Sheet Revisions

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No Revisions:	IRRIGATION DETAILS		AQC M415-021
Revised:	Designer: JHK	Structure Numbers	Drawing Number IRR
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Sheet Number 17 of 22
		Subset Sheets: 29 of 30	

- A. 10" ROUND VALVE BOX
- B. INSTALL TRACING WIRE TO THE TOP OF VALVE BOX
- C. WATER PROOF CONNECTION (SEE SPECIFICATIONS)
- D. PIPE SLEEVE SEE VALVE DETAIL
- E. TAPE COPPER WIRE TO TOP OF PIPE EVERY 10 FT.
- F. CONTINUOUS LOOP COPPER TRACING WIRE (SEE SPECIFICATIONS)
- G. PVC PIPE
- H. TYP. VALVE



- NOTE:
1. COPPER TRACING WIRE WILL START AT THE MASTER VALVE AND WILL BE ROUTED WITH ALL MAINLINE PIPE.
  2. SPLICE TRACING WIRE IN IRRIGATION MAINLINE COMPONENT VALVE BOXES WHEN POSSIBLE, OTHERWISE, PLACE SPLICE IN SEPARATE VALVE BOX.

**1** TRACING WIRE  
DETAIL N.T.S.

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 04 37TH STREET AND 65TH AVE.DWG





Know what's below.  
Call before you dig.

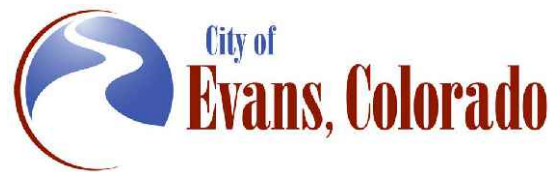


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PRIME CONSULTANT:	SUB CONSULTANT:
	

Sheet Revisions		
Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A		Project No.
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No Revisions:	Designer: JHK	Structure Numbers	Drawing Number IRR
Revised:	Detailer: JHK		
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TABULATION OF TEMPORARY TRAFFIC CONTROL SIGNING			
SIGN	DESCRIPTION	DIMENSION	PANEL SIZE EACH
			A
W20-1	ROAD WORK AHEAD	36" x 36"	5
G20-2	END ROAD WORK	36" x 18"	5
R2-1	SPEED LIMIT (35 MPH)	24" x 30"	4
R2-6aP	FINES DOUBLE (PLAQUE)	24" x 18"	4
R2-10	BEGIN FINES DOUBLE IN WORK ZONE	24" x 30"	5
R2-11	END FINES DOUBLE IN WORK ZONE	24" x 30"	5
W20-7	FLAGGER (SYMBOL)	36" x 36"	4
W20-5L	LEFT LANE CLOSED	36" x 36"	2
W4-2L	LEFT LANE MERGE	36" x 36"	2
G20-10	XYZ CONSTRUCTION THANKS YOU	24" x 30"	4
M4-9A	BIKE/PEDESTRIAN DETOUR	30" x 24"	8
R9-9	SIDEWALK CLOSED	24" x 12"	8
W20-2	DETOUR AHEAD	30" x 24"	4
M4-8a	END DETOUR	24" x 18"	4
<b>TOTALS</b>			64

TABULATION OF TRAFFIC CONTROL DEVICES			
ITEM	DESCRIPTION	UNIT	QUANTITY
621-00450	DETOUR PAVEMENT	SY	2,500
627-00013	PAVEMENT MARKING PAINT (HIGH BUILD)	GAL	70
630-00000	FLAGGING	HOUR	800
630-00003	UNIFORMED TRAFFIC CONTROL	HOUR	60
630-00007	TRAFFIC CONTROL INSPECTION	DAY	36
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	90
630-80337	BARRICADE (TYPE 3M-A) (TEMPORARY)	EACH	4
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	64
630-80350	VERTICAL PANEL	EACH	30
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	4
630-80356	ADVANCE WARNING SEQUENCING ARROW PANEL (A TYPE)	EACH	2
630-80360	DRUM CHANNELIZING DEVICE	EACH	125
630-80380	TRAFFIC CONE	EACH	150



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Sheet Revisions		
Date	Comments	Initials



**As Constructed**

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Revised:

Void:

**37TH ST & 65TH AVE INTERSECTION  
TABULATION OF TEMPORARY  
TRAFFIC CONTROL**

Designer: T. Tuttle  
 Detailer: A. Osborne  
 Sheet Subset: PHASING

Structure Numbers:        
 Subset Sheets: 1 of 14

**Project No.**

STU M415-025

Drawing Number PH-001

Sheet Number 154

90% DRAFT PLANS

# 37TH ST & 65TH AVE CONSTRUCTION PHASING

## CONSTRUCTION PHASING GENERAL NOTES:

ALL CONSTRUCTION PHASING, SIGNING, AND STRIPING MUST COMPLY WITH THE MOST CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS WELL AS CDOT STANDARDS AND SPECIFICATIONS.

ALL TRAVEL LANES SHALL BE A MINIMUM OF 10' WIDE.

CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AND ALLOW ACCESS TO HOMES, BUSINESSES, AND SIDE STREETS AT ALL TIMES. CONTRACTOR SHALL PROVIDE TEMPORARY RAMPING IF NECESSARY. THIS SHALL BE INCLUDED IN THE COST OF THE WORK.

CONTRACTOR SHALL COORDINATE ANY TEMPORARY CLOSURES TO HOMES OR BUSINESSES WITH THE OWNERS.

CONTRACTOR SHALL CONSIDER TEMPORARILY CLOSING ACCESS TO BUSINESSES DURING CLOSED BUSINESS HOURS.

CONTRACTOR SHALL MINIMIZE SURFACE DRAINAGE PONDING BY CONSTRUCTING TEMPORARY INLETS/DIKES AS NEEDED IF PERMANENT STRUCTURES ARE NOT IN PLACE.

THE CONSTRUCTION SEQUENCE DESCRIBED BELOW AND SHOWN ON THE PLANS IS A POTENTIAL SEQUENCE AVAILABLE FOR CONTRACTOR USE. IT IS A GENERAL CONCEPT ONLY AND IS PROVIDED FOR INFORMATION ONLY. NOT ALL CONSTRUCTION DETAILS HAVE BEEN ADDRESSED. THE CONTRACTOR IS IN NO WAY OBLIGED TO EMPLOY THE METHODS OR SEQUENCES OF CONSTRUCTION OUTLINED IN THE PHASING PLANS. ANY VARIATION IN PHASING MUST BE APPROVED BEFORE CONSTRUCTION BEGINS. MHT'S SHALL BE APPROVED PRIOR TO BEGINNING OF WORK

SIGNAL CONSTRUCTION WILL NEED TO BE COORDINATED IN EACH PHASE.

### PHASE 1

1. CONSTRUCT TEMPORARY PAVEMENT ON 37TH ST FROM STA 20+45 TO STA 32+15.
2. REMOVE EXISTING STRIPING AS NEEDED AND INSTALL TEMPORARY PAVEMENT MARKINGS FOR PHASE 1 TRAFFIC. USE EXISTING PAVEMENT MARKINGS AS SHOWN IN PHASE 1 DRAWINGS.
3. ALL TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE PLACED ACCORDING TO AN APPROVED MHT BEFORE BEGINNING CONSTRUCTION.
4. SHIFT TRAFFIC TO PHASE 1 ALIGNMENT.
5. CONSTRUCT STREET WIDENING, SIDEWALK, CURB AND GUTTER, AND ADA RAMP IMPROVEMENTS. DON'T PAVE TOP MAT UNTIL END OF FINAL PHASING.
6. CONSTRUCT TEMPORARY PAVEMENT NEAR TIE-IN LOCATIONS.

### PHASE 2

1. INSTALL TEMPORARY PAVEMENT MARKINGS FOR PHASE 2 TRAFFIC.
2. ALL TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE PLACED ACCORDING TO AN APPROVED MHT BEFORE BEGINNING CONSTRUCTION.
3. SWITCH TRAFFIC TO THE PHASE 2 ALIGNMENT WHILE ALSO REUSING TRAFFIC CONTROL EQUIPMENT, DEVICES, AND SIGNS.
4. REMOVE TEMPORARY PAVEMENT AND PAVEMENT MARKINGS FROM PHASE 1.
5. CONSTRUCT THE INSIDE LANES. DON'T PAVE TOP MAT UNTIL END OF PHASING.

### PHASE 3

1. REMOVE TEMPORARY PAVEMENT MARKING ARROWS AT THE INTERSECTION FROM PHASE 2 AND INSTALL TEMPORARY PAVEMENT MARKINGS FOR PHASE 3.
2. ALL TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE PLACED ACCORDING TO AN APPROVED MHT BEFORE BEGINNING CONSTRUCTION.
3. SHIFT TRAFFIC TO THE PROPOSED PROJECT ALIGNMENT, WHILE ALSO REUSING TRAFFIC CONTROL EQUIPMENT, DEVICES AND SIGNS.
4. CONSTRUCT REMAINING PAVEMENT AND CURB AND GUTTER.
5. AFTER FINAL CONSTRUCTION PHASING IS COMPLETE, INSTALL TOP MAT (GRADE SIX) ASPHALT PAVEMENT. THEN INSTALL FINAL STRIPING AND PAVEMENT MARKINGS. SEE SIGNING AND STRIPING PLANS FOR MORE DETAILS.

### TRAFFIC CONTROL GENERAL NOTES:

37TH ST AND 65TH AVE SHALL MAINTAIN CONSTRUCTION WORK ZONE SPEED LIMITS OF 35 MPH.

ALL TAPERS, DETOURS, ETC, SHALL BE SET USING 35 MPH.

BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS, THE FINAL LOCATION OF ALL SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.

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Date	Comments	Initials



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<b>37TH ST &amp; 65TH AVE INTERSECTION CONSTRUCTION PHASING NOTES</b>		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: PHASING Subset Sheets: 2 of 14
Detailer: A. Osborne		

<b>Project No.</b>
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Drawing Number PH-002
Sheet Number 155

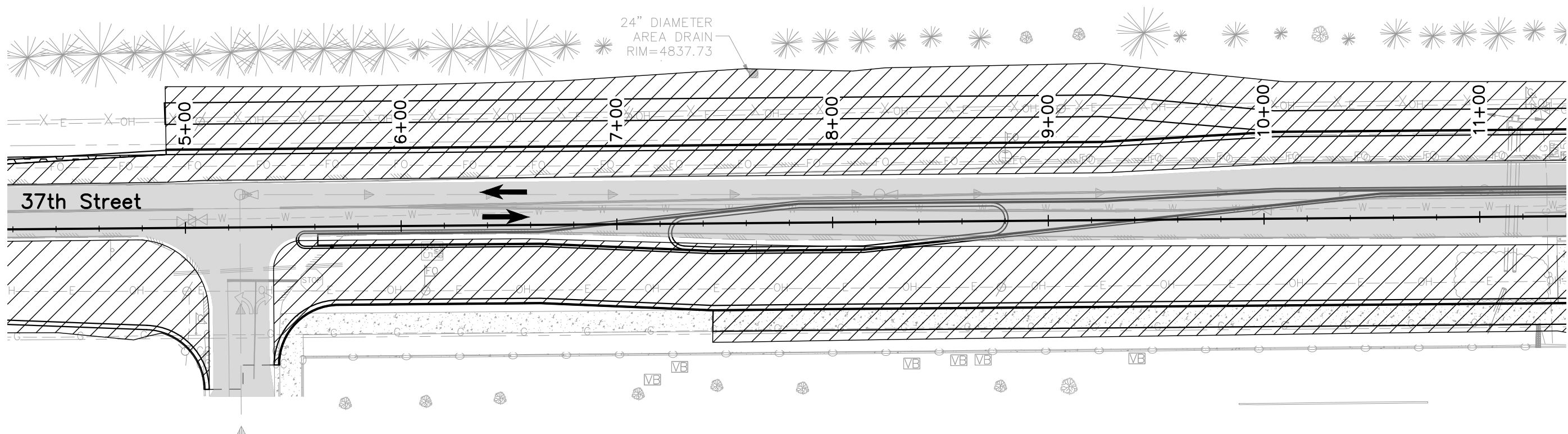
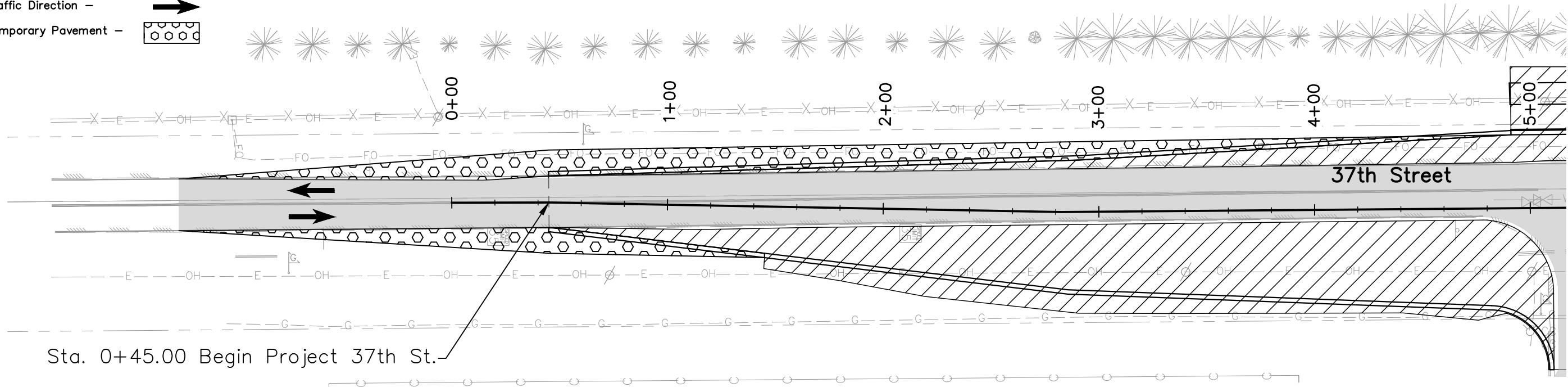
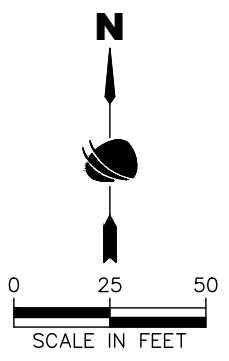


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90% DRAFT PLANS

**Legend:**

- Construction Phase 1 -
- Phase 1 Traffic -
- Traffic Direction -
- Temporary Pavement -



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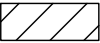
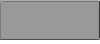
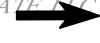
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 Designer: T. Tuttle  
 Detailer: A. Osborne  
 Sheet Subset: PHASING  
 Structure Numbers:  
 Subset Sheets: 3 of 14

**Project No.**  
 STU M415-025  
 Drawing Number PH-003  
 Sheet Number 156

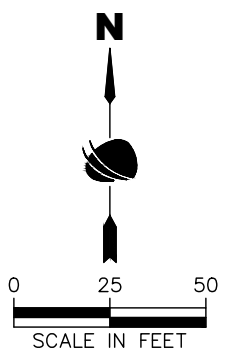
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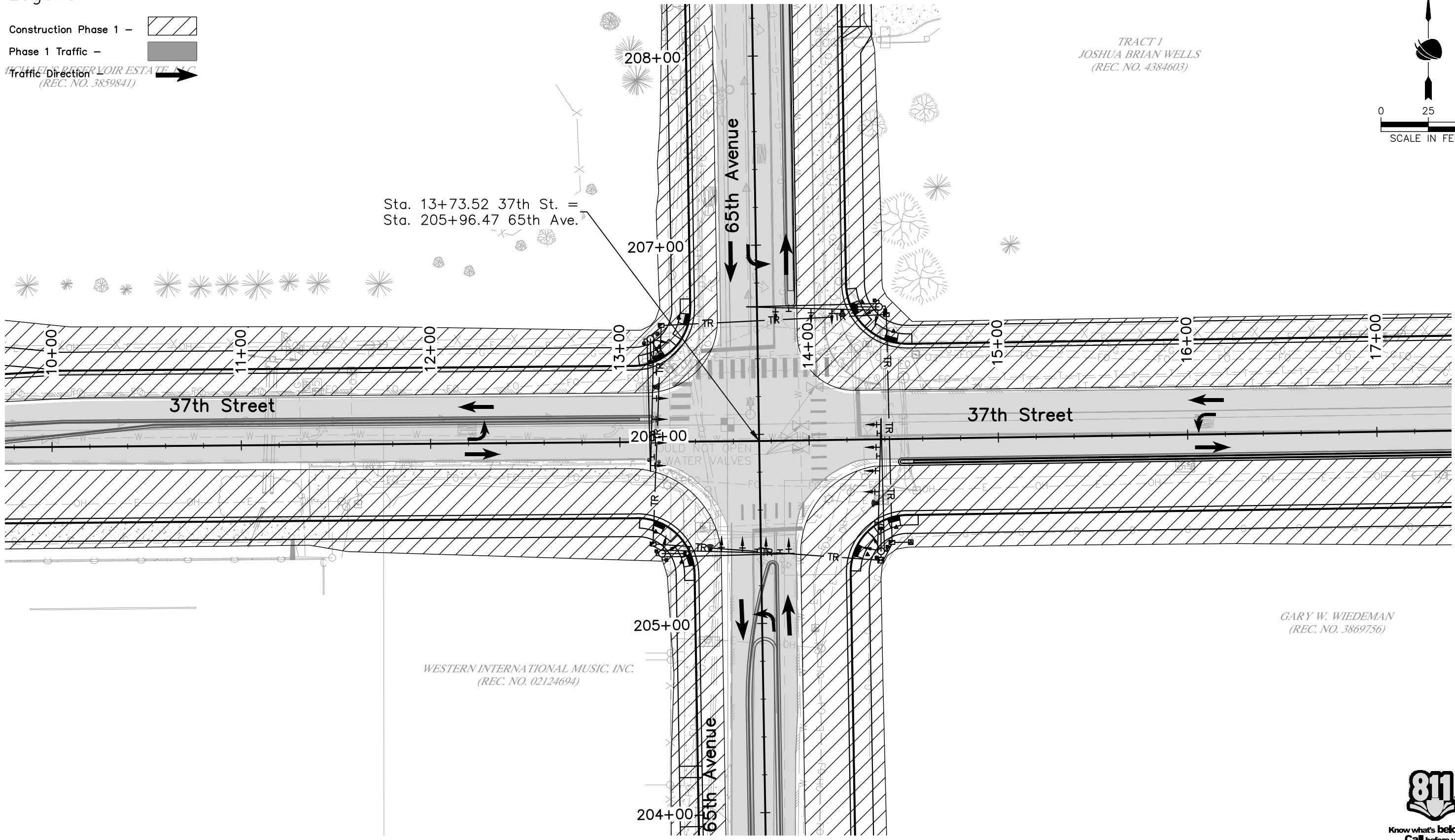
- Construction Phase 1 - 
- Phase 1 Traffic - 
- Traffic Direction - 

CHARLES RESERVOIR ESTATE, LLC  
(REC. NO. 3859841)

TRACT 1  
JOSHUA BRIAN WELLS  
(REC. NO. 4384603)



Sta. 13+73.52 37th St. =  
Sta. 205+96.47 65th Ave.



GARY W. WIEDEMAN  
(REC. NO. 3869756)

WESTERN INTERNATIONAL MUSIC, INC.  
(REC. NO. 02124694)



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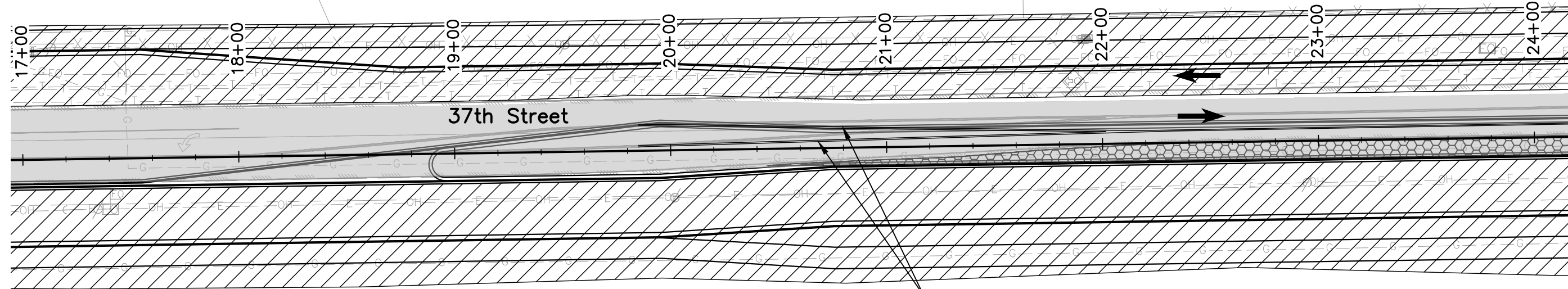
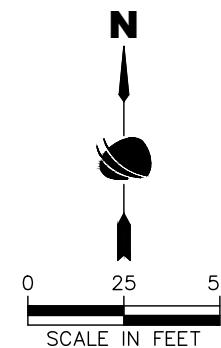
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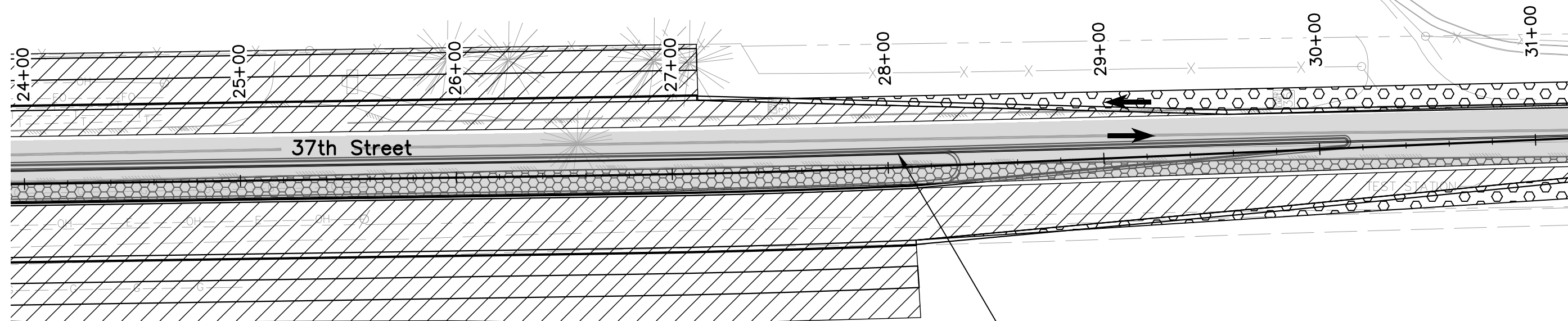
90% DRAFT PLANS

Legend:

- Construction Phase 1 -
- Phase 1 Traffic -
- Traffic Direction -
- Temporary Pavement -
- Temporary Pavement (Build First) -



Temp. Pavement Markings



Temp. Pavement Markings

GARY W. WIEDEMAN



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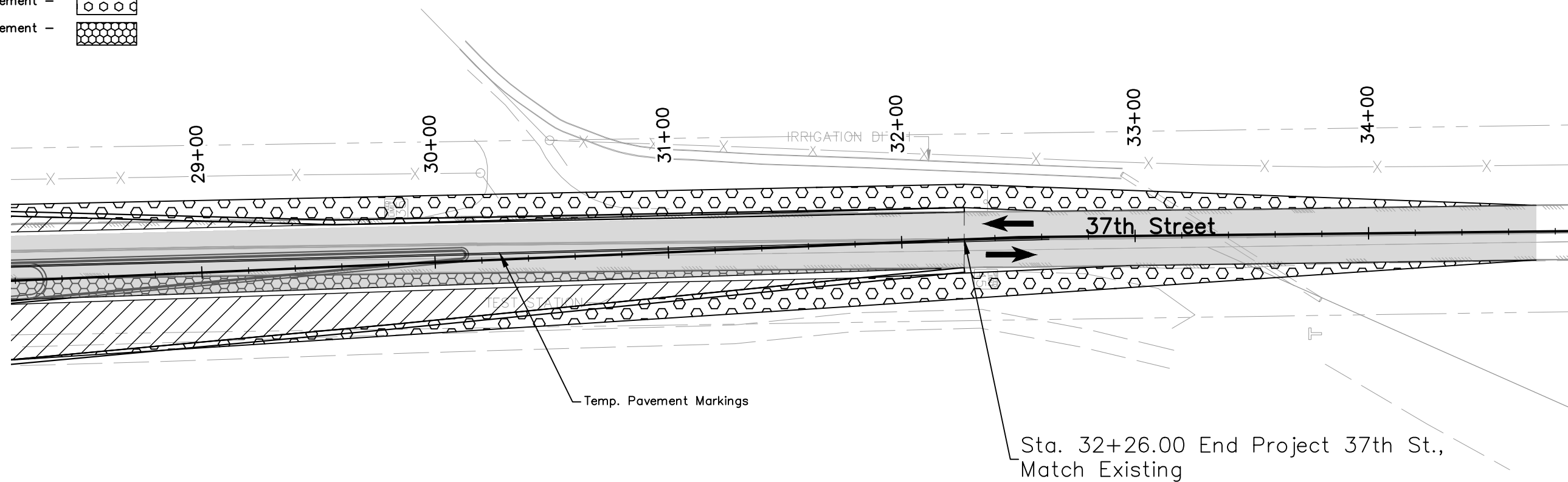
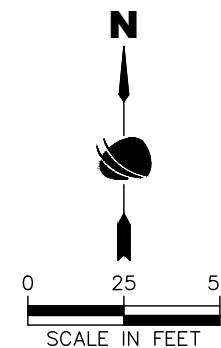
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Detailer: A. Osborne		
Sheet Subset: PHASING	Subset Sheets: 5 of 14	

<b>Project No.</b>
STU M415-025
Drawing Number PH-005
Sheet Number 158

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Legend:

- Construction Phase 1 -
- Phase 1 Traffic -
- Traffic Direction -
- Temporary Pavement -
- Temporary Pavement (Build First) -



GARY W. WIEDEMAN  
(REC. NO. 3869756)

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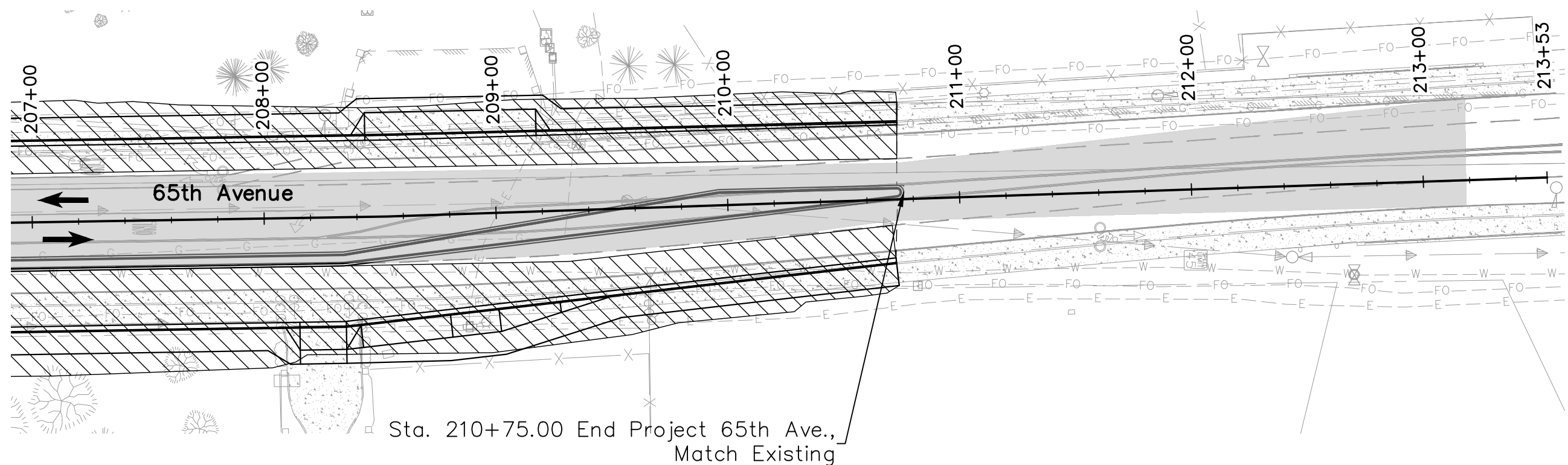
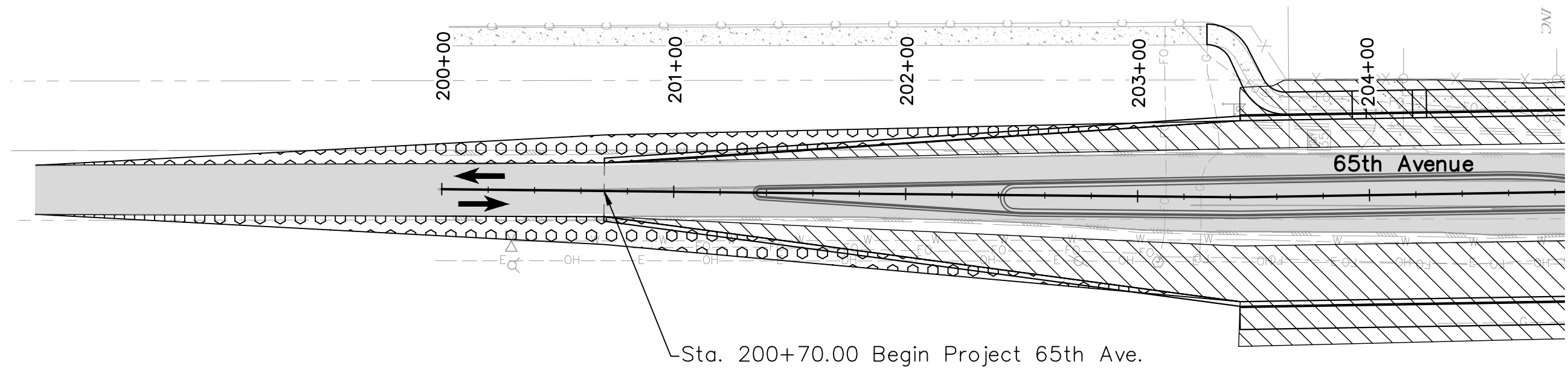
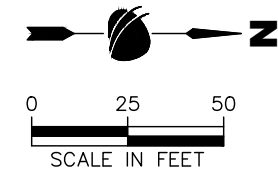
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Date	Comments	Initials																	

Legend:

- Construction Phase 1 -
- Phase 1 Traffic -
- Traffic Direction -
- Temporary Pavement -



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Sheet Revisions		
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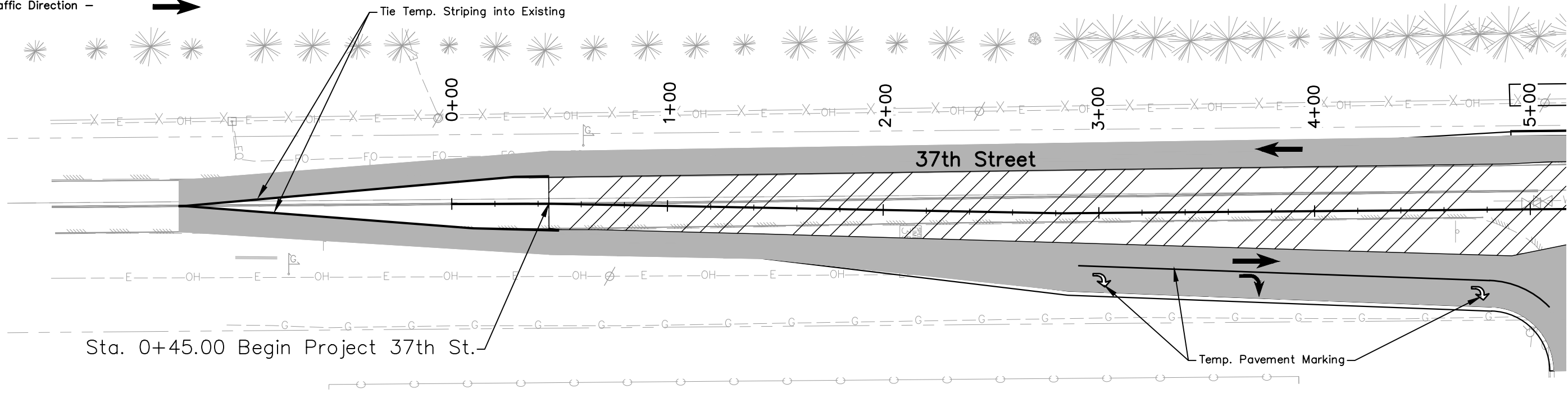
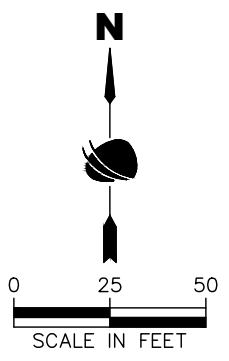
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Detailer: A. Osborne		
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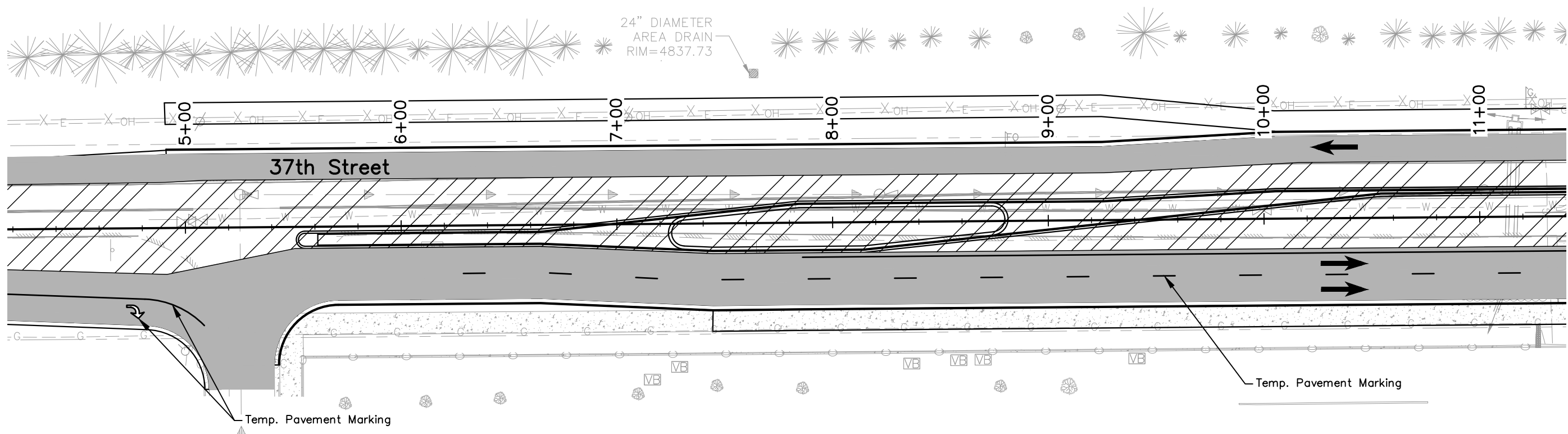
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Drawing Number PH-007
Sheet Number 160

Legend:

- Construction Phase 2 - 
- Phase 2 Traffic - 
- Traffic Direction - 



Sta. 0+45.00 Begin Project 37th St.



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90% DRAFT PLANS



Print Date: 9/17/2025  
 File Name: PH2 P3-001 CONSTRUCTION PHASING PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: 1/4"=1'-0"

12076 Grant Street  
 Thornton, CO 80241  
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Sheet Revisions		
Date	Comments	Initials



**As Constructed**

No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION CONSTRUCTION PHASING PLANS PHASE 2**

Designer: T. Tuttle  
 Detailer: A. Osborne  
 Sheet Subset: PHASING




Structure Numbers  
 Subset Sheets: 8 of 14

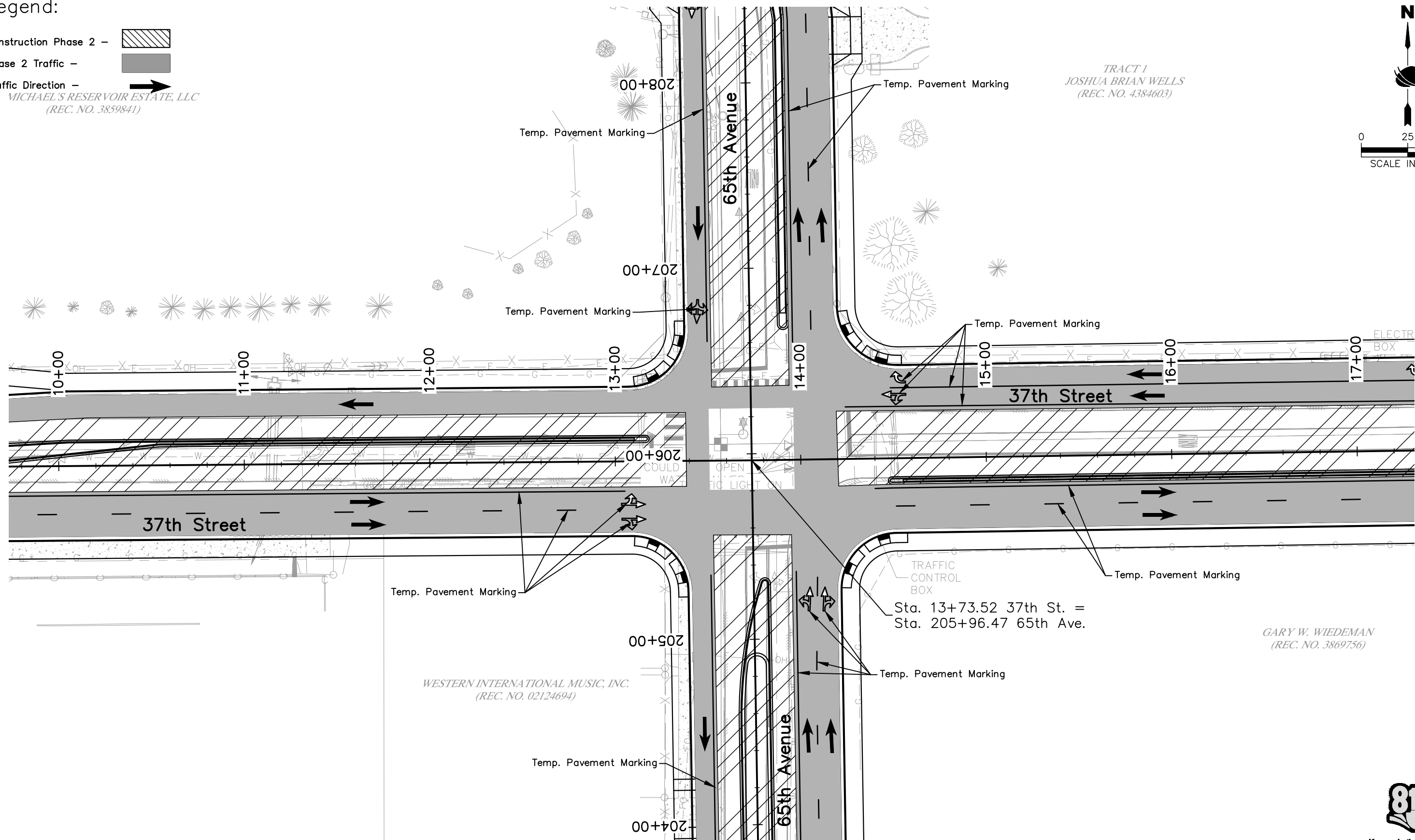
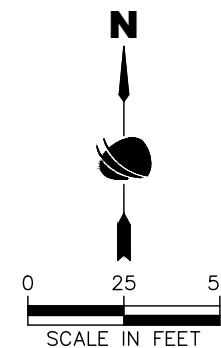
**Project No.**  
 STU M415-025

Drawing Number PH-008  
 Sheet Number 161

All seals for this set of drawings are applied to the cover page(s)

Legend:

- Construction Phase 2 - 
  - Phase 2 Traffic - 
  - Traffic Direction - 
- MICHAEL'S RESERVOIR ESTATE, LLC  
(REC. NO. 3859841)



90% DRAFT PLANS



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Date	Comments	Initials



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Revised:
Void:




37TH ST & 65TH AVE INTERSECTION CONSTRUCTION PHASING PLANS PHASE 2		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: PHASING Subset Sheets: 9 of 14
Detailer: A. Osborne		

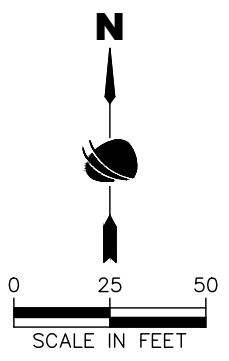
Project No.
STU M415-025
Drawing Number PH-009
Sheet Number 162

Plot Date: 9/17/2025 1:05 PM Plotted By: Sarah Henkle  
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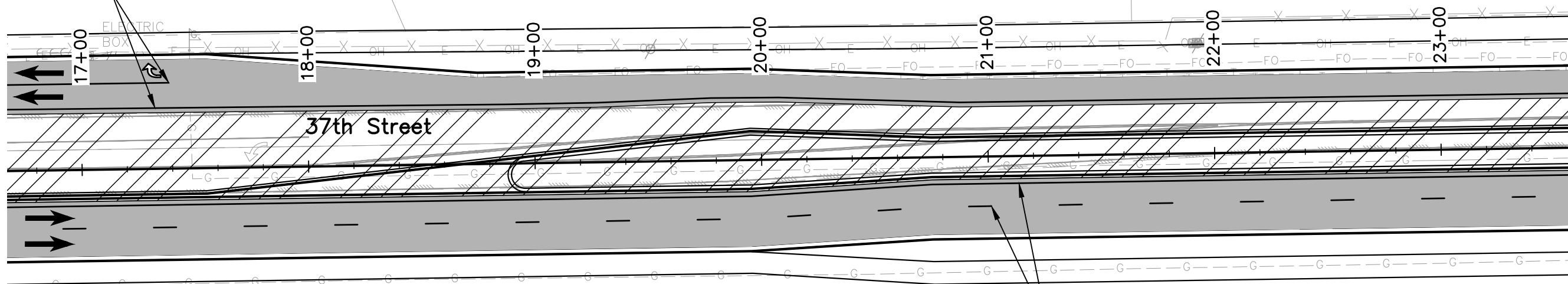
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Legend:

- Construction Phase 2 - 
- Phase 2 Traffic - 
- Traffic Direction - 

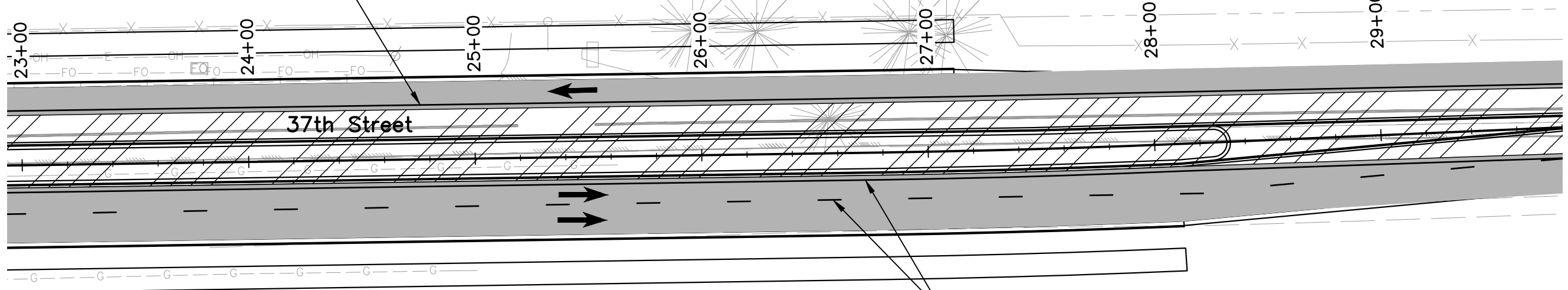


Temp. Pavement Marking



Temp. Pavement Marking

Temp. Pavement Marking



Temp. Pavement Marking

W. WIEDEMAN  
NO. 3869756



Print Date: 9/17/2025  
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 Fax: (303) 962-9350

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Date	Comments	Initials



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 No Revisions:  
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 Void:

**37TH ST & 65TH AVE INTERSECTION  
 CONSTRUCTION PHASING PLANS  
 PHASE 2**  
 Designer: T. Tuttle  
 Detailer: A. Osborne  
 Sheet Subset: PHASING  
 Structure Numbers:  
 Subset Sheets: 10 of 14




**Project No.**  
 STU M415-025  
 Drawing Number PH-010  
 Sheet Number 163

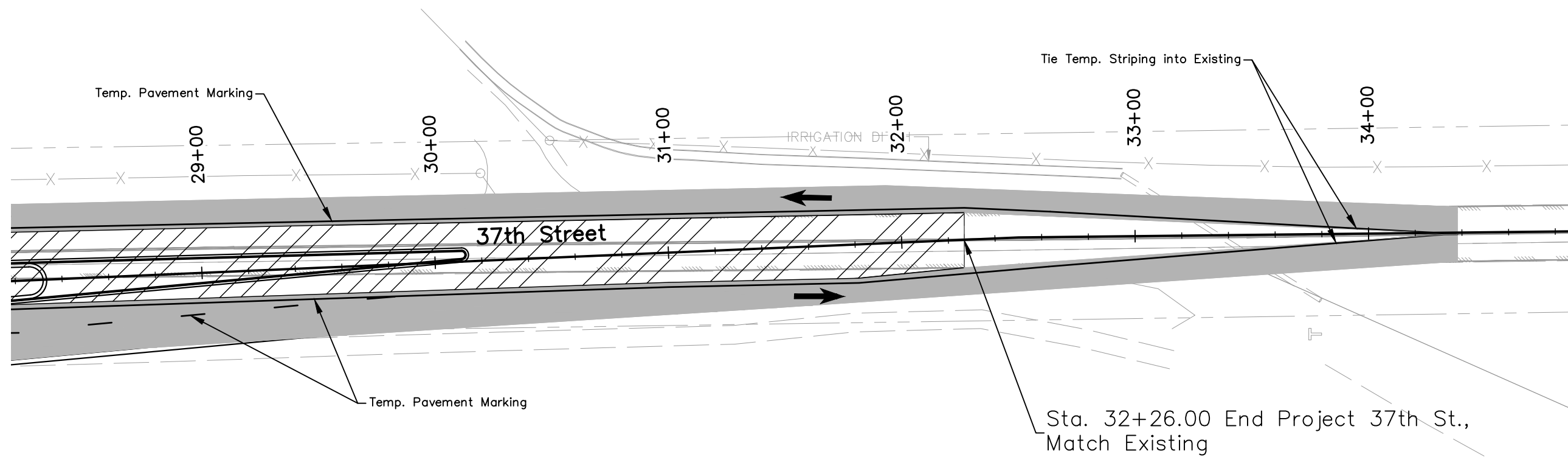
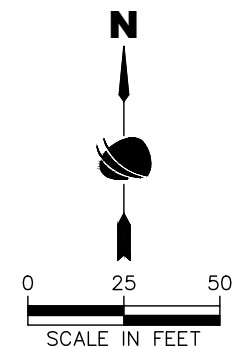
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90% DRAFT PLANS

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Legend:

- Construction Phase 2 - 
- Phase 2 Traffic - 
- Traffic Direction - 






GARY W. WIEDEMAN  
(REC. NO. 3869756)




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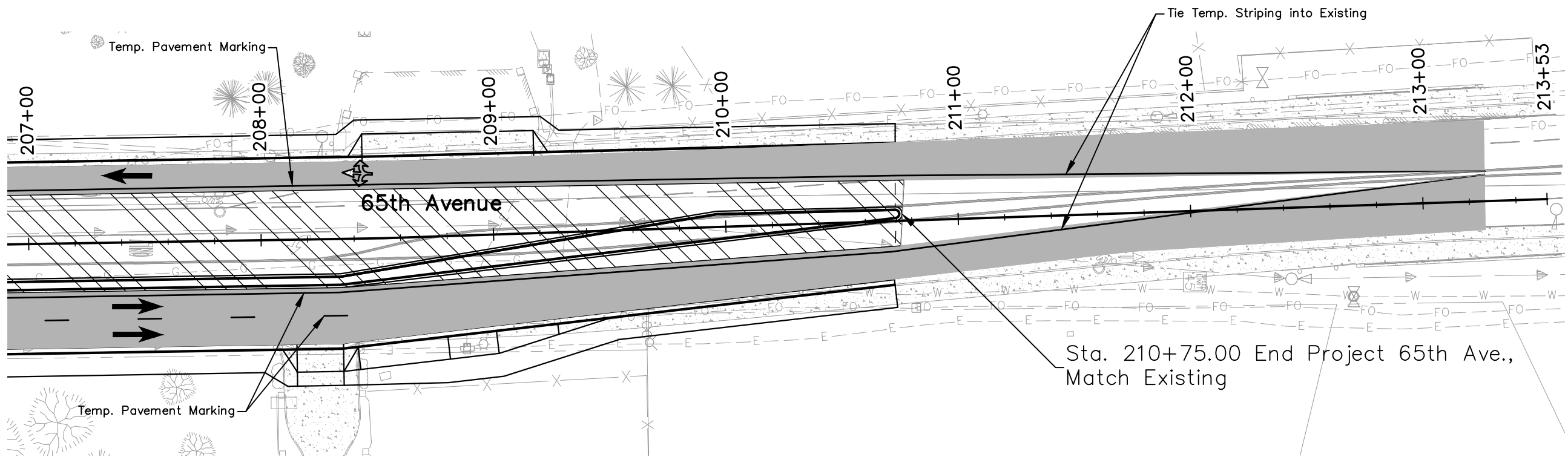
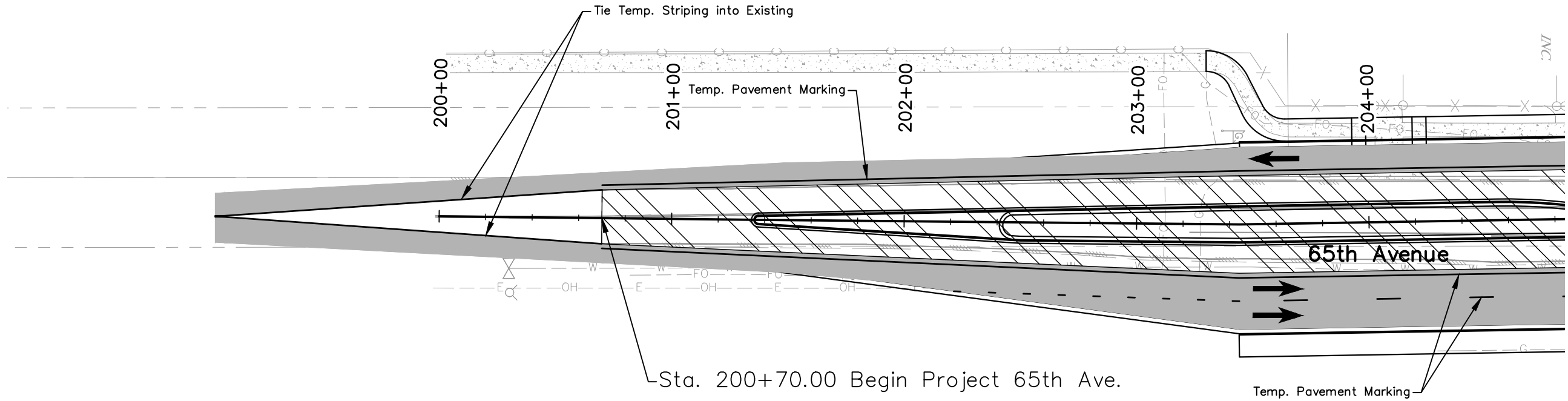
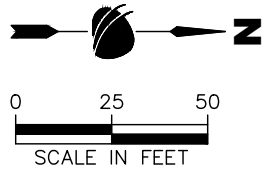
90% DRAFT PLANS



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	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Date	Comments	Initials													<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Designer:</td> <td>T. Tuttle</td> <td style="width: 15%;">Structure Numbers</td> <td> </td> </tr> <tr> <td>Detailer:</td> <td>A. Osborne</td> <td>Subset Sheets:</td> <td>11 of 14</td> </tr> </table>	Designer:	T. Tuttle	Structure Numbers		Detailer:	A. Osborne
Date	Comments	Initials																							
Designer:	T. Tuttle	Structure Numbers																							
Detailer:	A. Osborne	Subset Sheets:	11 of 14																						

Legend:

- Construction Phase 2 - 
- Phase 2 Traffic - 
- Traffic Direction - 



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Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
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 Void:

**37TH ST & 65TH AVE INTERSECTION CONSTRUCTION PHASING PLANS PHASE 2**




Designer: T. Tuttle  
 Detailer: A. Osborne  
 Sheet Subset: PHASING

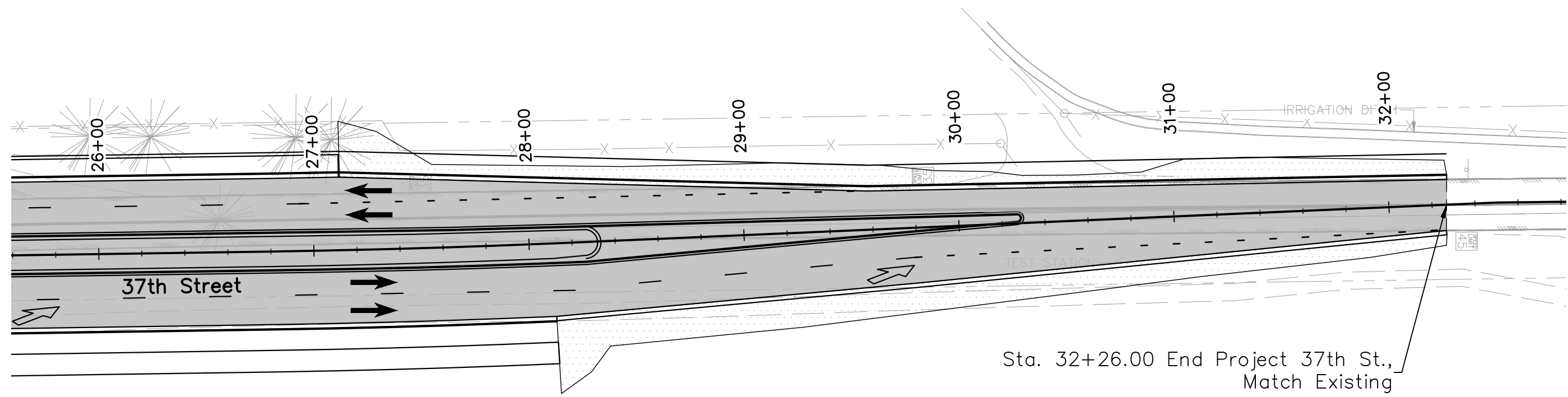
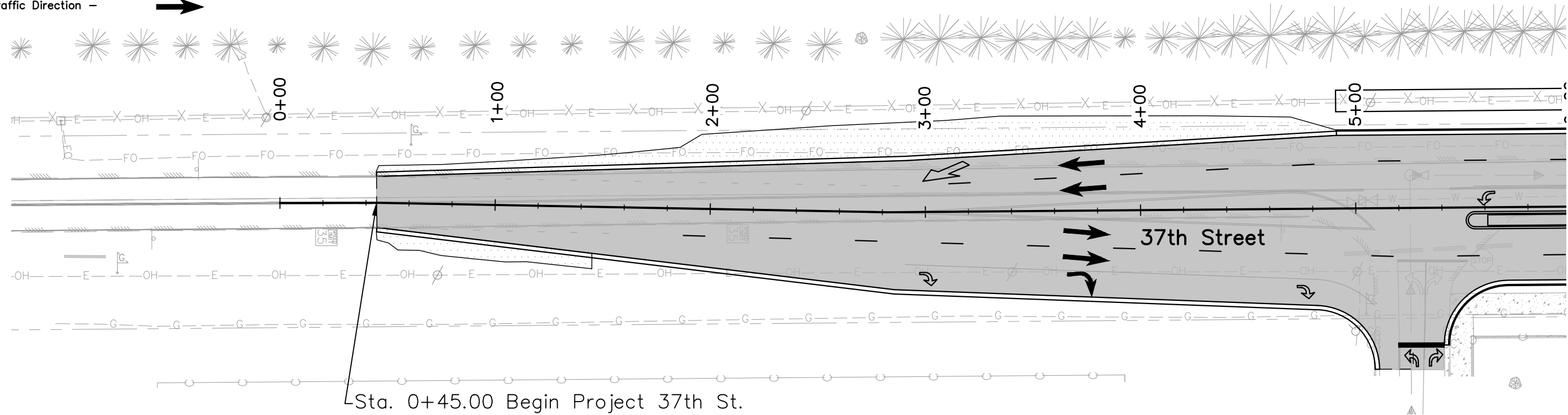
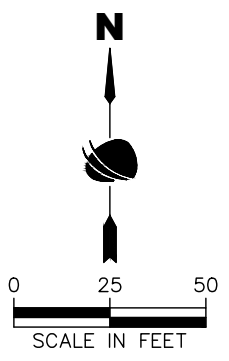
Structure Numbers  
 Subset Sheets: 12 of 14

**Project No.**  
 STU M415-025

Drawing Number PH-012  
 Sheet Number 165

Legend:

- Construction Phase 3 - 
- Phase 3 Traffic - 
- Traffic Direction - 



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Print Date: 9/17/2025
File Name: PH2A P3-001 CONSTRUCTION PHASING PLAN.DWG
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Sheet Revisions		
Date	Comments	Initials






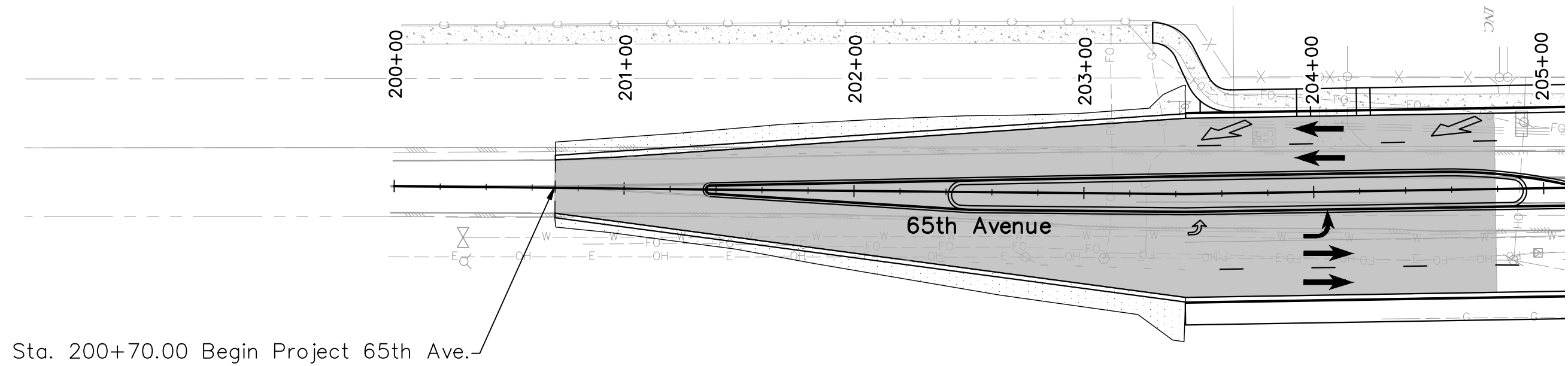
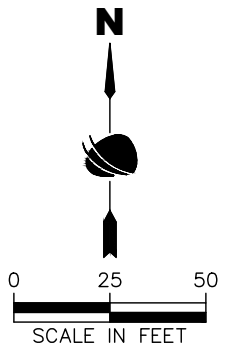
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No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION CONSTRUCTION PHASING PLANS PHASE 3</b>		
Designer: T. Tuttle	Structure Numbers:	
Detailer: A. Osborne		
Sheet Subset: PHASING	Subset Sheets: 13 of 14	

<b>Project No.</b>
STU M415-025
Drawing Number PH-013
Sheet Number 166

Legend:

- Construction Phase 3 - 
- Phase 3 Traffic - 
- Traffic Direction - 



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All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/17/2025 File Name: PH2A P3-001 CONSTRUCTION PHASING PLAN.DWG Horiz. Scale: As Noted Vert. Scale: 1"=40'	<b>Sheet Revisions</b>	  	<b>As Constructed</b>	<b>37TH ST &amp; 65TH AVE INTERSECTION CONSTRUCTION PHASING PLANS PHASE 3</b>		<b>Project No.</b> STU M415-025												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Date	Comments	Initials										No Revisions: Revised: Void:	Designer: T. Tuttle Detailer: A. Osborne Sheet Subset: PHASING	Structure Numbers Subset Sheets: 14 of 14	Drawing Number PH-014 Sheet Number 167
	Date	Comments		Initials															
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350																			

**TABULATION OF SIGNS**

SIGN NO.	SIGN CODE	LEGEND	COLOR	EXISTING LOCATION	EXISTING POSITION	TRAVEL DIRECTION	PANEL SIZE	PROPOSED LOCATION	PROPOSED POSITION	STEEL SIGN POST (1.75x1.75 INCH TUBING)	SIGN PANEL		BARRICADE	REMOVALS	RESETS	REMARKS
											CLASS I	(TYPE 3M-A)	GROUND SIGN	GROUND SIGN		
											LF	SF	EACH	EACH	EACH	
1	R2-1	Speed Limit 35mph	White	2+12	9' Right	East	30" x 36"	2+12	31' Right	11.0	7.50		1			
2	R3-7R	Right Lane Must Turn Right	White			East	30" x 30"	2+90	45' Right	10.5	6.25					
3	W3-3	Signal Ahead	Yellow	4+65	10' Right	East	30" x 30"	4+65	53' Right	11.0	6.25		1			
4	R3-7R	Right Lane Must Turn Right	White			East	30" x 30"	4+87	54' Right	10.5	6.25					
5	R9-9	Sidewalk Closed	White			West	24" x 12"	4+92	53' Right		2.00	1				Mount On Barricade
6	R4-7	Keep Right	White			East	24" x 30"	5+55	6' Right	10.5	5.00					
7	R1-1	Stop	Red	5+58	25' Righth	North	36" x 36"	5+61	56' Right	11.0	9.00		1			
8	R2-1	Speed Limit 35mph	White	6+14	12' Right	East	30" x 36"	6+14	52' Right	11.0	7.50		1			
9	R12-5	Weight Limit	White	7+65	13' Right	East	24" x 36"	7+64	56' Right	11.0	6.00		1			
10	W4-2	Lane Ends	Yellow			West	36" x 36"	8+56	40' Left	11.5	9.00					
11	R2-1	Speed Limit 35mph	White	11+38	31' Left	West	30" x 36"	11+37	51' Right	11.0	7.50		1			
12	R4-7	Keep Right	White			West	24" x 30"	13+16	12' Left	10.5	5.00					
	D3-1	65th Avenue	Green			West	18" x 64"	13+21	40' Left		8.00					Mount On Mast Arm See SIG-001
	R3-5L	Left Turn Only	White			West	30" x 36"	13+21	8' Left		7.50					
	R3-5L	Left Turn Only	White			West	30" x 36"	13+21	4' Right		7.50					
	R3-5L	Left Turn Only	White			East	30" x 36"	14+37	3' Left		7.50					
	R3-5L	Left Turn Only	White			East	30" x 36"	14+37	9' Right		7.50					
	D3-1	65th Avenue	Green			East	18" x 64"	14+37	44' Right		8.00					
13	R4-7	Keep Right	White			East	24" x 30"	14+50	12' Right	10.5	5.00					
14	R3-7R	Right Lane Must Turn Right	White			West	30" x 30"	14+57	68' Left	10.5	6.25					
15	R2-1	Speed Limit 35mph	White	15+98	15' Right	East	30" x 36"	15+97	56' Right	11.0	7.50		1			
16	S5-1	School Speed Limit	White	16+28	31' Left	West	24" x 48"	16+28	68' Left	12.0	8.00			1		
17	S5-2	End School Zone	White	16+68	15' Right	East	24" x 30"	16+68	56' Right	10.5	5.00		1			
18	R3-7R	Right Lane Must Turn Right	White			West	30" x 30"	17+53	68' Left	10.5	6.25					
19	W3-3	Signal Ahead	Yellow	21+87	29' Left	West	30" x 30"	21+86	56' Left	11.0	6.25		1			
20	W4-2	Lane Ends	Yellow			East	36" x 36"	25+17	42' Right	11.5	9.00					
21	R9-9	Sidewalk Closed	White			East	24" x 12"	27+11	53' Right		2.00	1				Mount On Barricade
22	R2-1	Speed Limit 35mph	White	27+50	30' Left	West	30" x 36"	27+49	56' Left	11.0	7.50		1			
23	R9-9	Sidewalk Closed	White			East	24" x 12"	28+11	51' Right		2.00	1				Mount On Barricade
24	W3-5	Speed Reduction	Yellow	29+84	24' Left	West	30" x 30"	29+85	38' Left	11.0	9.00		1			
25	R4-7	Keep Right	White			West	24" x 30"	30+11	3' Left	10.5	5.00					
26	R2-1	Speed Limit 35mph	White	32+35	17' Right	East	30" x 36"	32+34	29' Right	11.0	7.50		1			
27	R2-5a	Reduce Speed Ahead	White	32+37	16' Left	West	30" x 36"	32+37	27' Left	11.0	7.50		1			
SUBTOTAL										261.5	217	3	13	1		

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Sheet Revisions		
Date	Comments	Initials



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 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION  
 SIGNING AND PAVEMENT MARKING  
 TABULATION**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TRAF TAB  
 Structure Numbers  
 Subset Sheets: 1 of 4

**Project No.**  
 STU M415-025  
 Drawing Number TTAB-001  
 Sheet Number 168

**TABULATION OF SIGNS**

SIGN NO.	SIGN CODE	LEGEND	COLOR	EXISTING LOCATION	EXISTING POSITION	TRAVEL DIRECTION	PANEL SIZE	PROPOSED LOCATION	PROPOSED POSITION	STEEL SIGN POST (1.75x1.75 INCH TUBING)	SIGN PANEL		BARRICADE (TYPE 3M-A)	REMOVALS GROUND SIGN EACH	RESETS GROUND SIGN EACH	REMARKS
											CLASS I	SF				
							INCHES				LF	SF				
28	R9-9	Sidewalk Closed	White			South	24" x 12"	203+45	52' Right		2.00		1			Mount On Barricade
29	R2-1	Speed Limit 35mph	White	203+79	24' Left	South	30" x 36"	203+79	46' Left	11.0	7.50		1			
30	W4-2	Lane Ends	Yellow			South	36" x 36"	204+94	46' Left	11.5	9.00					
31	R4-7	Keep Right	White			South	24" x 30"	205+30	6' Right	10.5	5.00					
	D3-1	37th Street	Green			South	18" x 64"	205+38	40' Left		8.00					Mount On Mast Arm See SIG-001
	R3-5L	Left Turn Only	White			South	30" x 36"	205+38	4' Left		7.50					
	R3-5L	Left Turn Only	White			South	30" x 36"	205+38	8' Right		7.50					
	R10-27a	Left Turn Yield on Yellow	White			North	30" x 36"	206+66	17' Right		7.50					
	D3-1	37th Street	Green			North	18" x 64"	206+66	51' Right		8.00					
32	R4-7	Keep Right	White			Noth	24" x 30"	206+70	18' Right	10.5	5.00					
33	R3-7R	Right Lane Must Turn Right	White	207+88	41' Left	South	30" x 30"						1			
34	R4-4	Yield to Bikes	White	208+32	41' Left	South	30" x 36"						1			
35	R4-7	Keep Right	White			Noth	24" x 30"	210+73	3' Left	10.5	5.00					
SUBTOTAL										54.0	72	1	3	0		
SUBTOTAL FROM PREVIOUS SHEET										261.5	217	3	13	1		
TOTAL										315.5	289	4	16	1		

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Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION SIGNING AND PAVEMENT MARKING TABULATION**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TRAF TAB  
 Structure Numbers  
 Subset Sheets: 2 of 4

**Project No.**  
 STU M415-025  
 Drawing Number TTAB-002  
 Sheet Number 169

**TABULATION OF PAVEMENT MARKINGS**

STATION	SIDE	CENTER	LANE	EDGE	CHANNELIZING		PVMT MARKING (ARROW)	PVMT MARKING (X WALK)	PVMT MARKING (STOP BAR)	REMARKS
		YELLOW SOLID 4 INCH	WHITE BROKEN 4 INCH	WHITE SOLID 4 INCH	WHITE LANE DROP 8 INCH	WHITE DOTTED 8 INCH				
		LF	LF	LF	LF	LF				
0+45 - 1+53	RT					24				
0+45 - 2+88	LT					51				
0+45 - 5+09	LT & RT	1,374								
1+89 - 13+18	RT		290							
2+90 - 5+08	RT				222					
3+02	RT					16				
3+09	LT					58				
3+11 - 13+21	LT		260							
4+76	RT					16				
5+20 - 5+20	RT	20								
5+26	RT					16				
5+30 - 5+31	RT				45					
5+31	RT							42		
5+36	RT					16				
5+55 - 6+59	LT				104					
5+60	LT					16				
6+53	LT					16				
7+23						58				
10+54 - 13+18	RT				264					
10+55 - 13+18	RT				264					
10+62	RT					16				
10+62	LT					16				
13+08	RT					16				
13+08	LT					16				
13+09	RT					28				
13+16	LT & RT							98		
13+23	LT & RT						280			
13+30 - 14+06	LT & RT					27				
13+30 - 14+18	LT & RT					33				
13+48 - 14+45	LT & RT					30				
13+53 - 14+45	LT & RT					27				
14+41	LT & RT						300			
14+46 - 17+54	LT				305					
14+46 - 17+55	LT				306					
14+48 - 26+93	LT		320							
14+49	LT & RT							116		
14+49 - 17+54	LT				305					
14+51 - 29+80	RT		390							
14+52	LT					16				
SUBTOTAL		1,394	1,260	0	1,815	192	321	580	256	

Note:  
All stop lines, arrows and onlays shall be pre-formed thermoplastic.  
Stationing is approximate, locations are to be field verified by contractor prior to final placing

Plotted Date: 9/17/2025 1:06 PM Plotted By: Sarah Hemler  
 E:\PROJECTS\VAI\PROJECTS\37TH ST AND 65TH AVE INTERSECTION DESIGN\00\_COMPUTER DESIGN FILES\02\_SHEET FILES\TAB P3-001\_SIGNING AND STRIPING TAB.DWG



All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025  
 File Name: TTAB P3-001 SIGNING AND STRIPING TAB.DWG  
 Horiz. Scale: N/A Vert. Scale: N/A  
 12076 Grant Street  
 Thornton, CO 80241  
 Ph: (303) 962-9300  
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Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION SIGNING AND PAVEMENT MARKING TABULATION**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TRAF TAB  
 Structure Numbers  
 Subset Sheets: 3 of 4

**Project No.**  
 STU M415-025  
 Drawing Number TTAB-003  
 Sheet Number 170

**TABULATION OF PAVEMENT MARKINGS**

STATION	SIDE	CENTER	LANE	EDGE	CHANNELIZING		PVMT MARKING (ARROW)	PVMT MARKING (X WALK)	PVMT MARKING (STOP BAR)	REMARKS
		YELLOW SOLID 4 INCH	WHITE BROKEN 4 INCH	WHITE SOLID 4 INCH	WHITE LANE DROP 8 INCH	WHITE DOTTED 8 INCH				
		LF	LF	LF	LF	LF				
14+53	LT						16			
14+54	RT						16			
17+49	LT						32			Includes two symbols
17+49	RT						16			
25+72	RT						58			
26+93 - 29+52	LT								54	
29+69	RT						58			
29+80 - 32+26	RT								51	
30+11 - 32+26	LT & RT	784								
200+70 - 201+37	LT & RT	256								
201+01 - 203+49	LT								51	
202+22 - 203+44	RT								27	
203+44 - 205+33	RT				189					
203+61	LT						58			
203+63 - 205+33	RT		50							
203+49 - 205+20	LT		50							
203+49	RT						16			
204+60	LT						58			
205+20	RT						16			
205+20	RT						28			
205+29	RT								72	
206+63	LT & RT							280		
206+67 - 210+75	RT		110							
206+67 - 208+34	RT				167					
206+67 - 208+34	LT				167					
206+67 - 210+77	LT		110							
206+70	LT & RT								96	
206+74	RT						16			
206+75	LT & RT						16			
206+79	LT						28			
208+29	RT						16			
208+29	LT & RT						16			
208+42	LT						28			
SUBTOTAL		1,040	320	0	523	183	492	280	168	
SUBTOTAL FROM PREVIOUS SHEET		1,394	1,260	0	1,815	192	321	580	256	
<b>TOTAL</b>		<b>2,434</b>	<b>1,580</b>	<b>0</b>	<b>2,338</b>	<b>375</b>	<b>812</b>	<b>860</b>	<b>424</b>	

SUMMARY OF PAVEMENT MARKING QUANTITIES					
COLOR	MODIFIED EPOXY PAVEMENT MARKING		PREFORMED THERMO PAVEMENT MARKING		
	MIN GAL	MAX GAL	X-WALK	STOP BAR	WORD SYMBOL
			SF	SF	SF
YELLOW	9	10			
WHITE	26	27	860	424	812
<b>TOTALS</b>	<b>35</b>	<b>37</b>	<b>860</b>	<b>424</b>	<b>812</b>

Note:  
 All stop lines, arrows and onlays shall be pre-formed thermoplastic.  
 Stationing is approximate, locations are to be field verified by contractor prior to final placing



Plotted Date: 9/17/2025 1:05 PM Plotted By: Sarah Hemler  
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 Horiz. Scale: N/A Vert. Scale: N/A  
 12076 Grant Street  
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 Ph: (303) 962-9300  
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

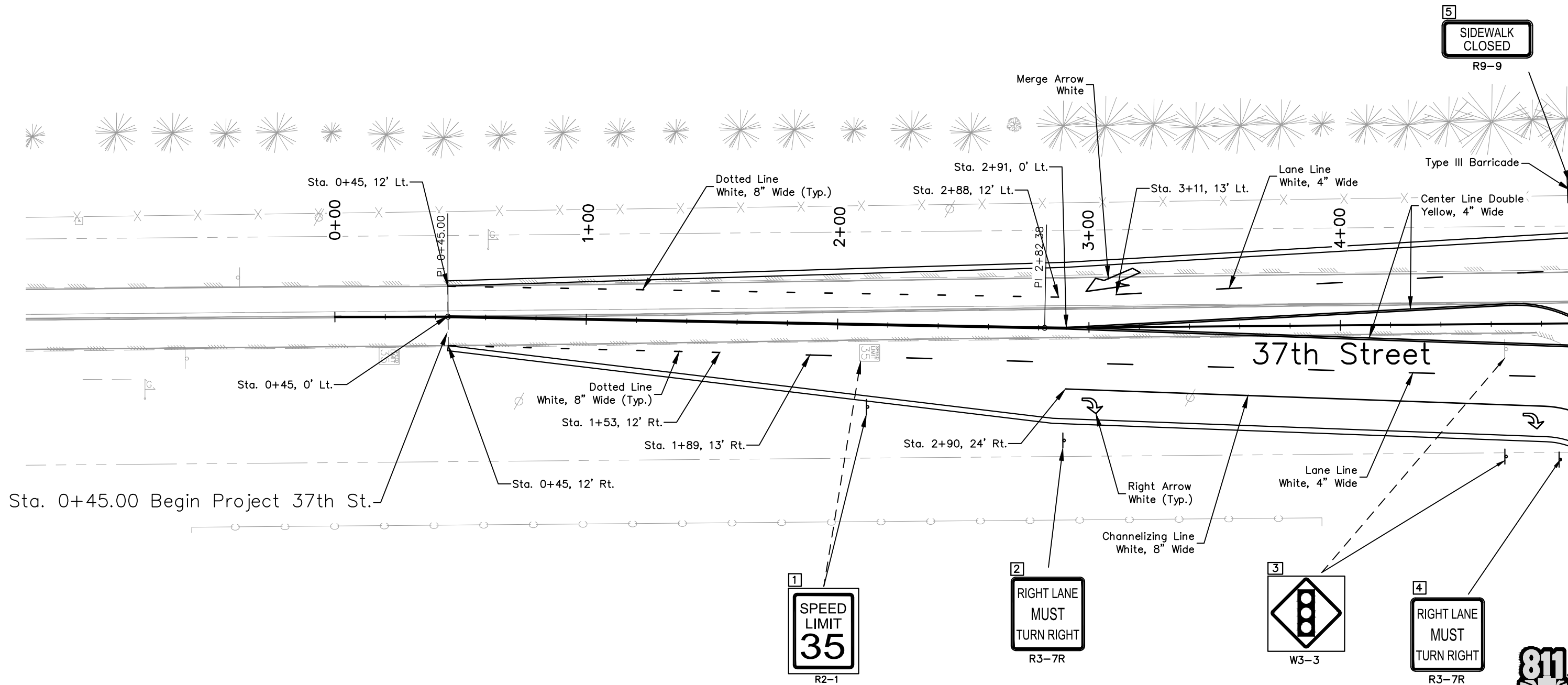
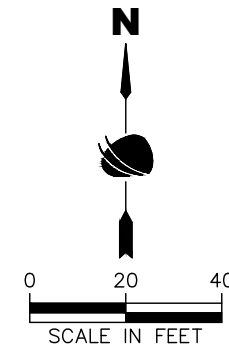


**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION SIGNING AND PAVEMENT MARKING TABULATION**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TRAF TAB  
 Structure Numbers  
 Subset Sheets: 4 of 4

**Project No.**  
 STU M415-025  
 Drawing Number TTAB-004  
 Sheet Number 171

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Print Date: 9/17/2025  
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Sheet Revisions		
Date	Comments	Initials



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 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION  
 SIGNING AND STRIPING PLAN**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TRAFFIC

Structure Numbers  
 Subset Sheets: 1 of 8

**Project No.**  
 STU M415-025

Drawing Number TRAF-001  
 Sheet Number 172

Plot Date: 9/17/2025 1:15 PM Plotted By: Sarah Hemler  
 C:\Q-PROJECTS\TRAFFIC PROJECTS\37TH ST AND 65TH AVE INTERSECTION DESIGN\001-COMPUTER DESIGN FILES\02-SHEET FILES\TRAF P3-001 SIGNING AND STRIPING PLAN.DWG

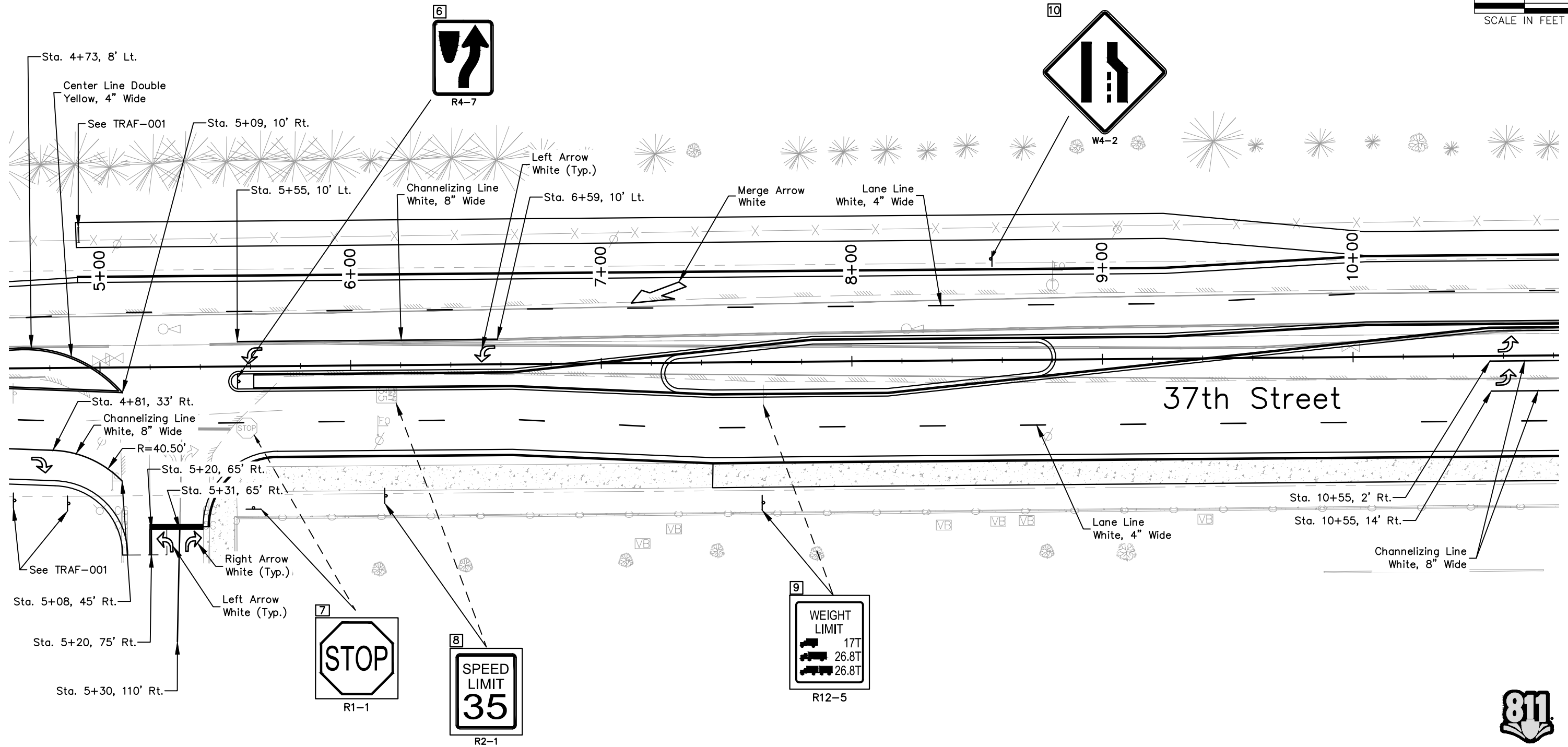
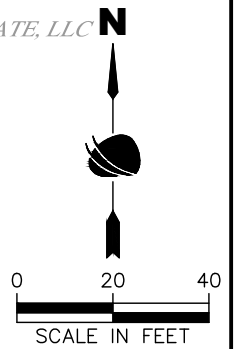
All seals for this set of drawings are applied to the cover page(s)

SIGN NO. 1

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ST. MICHAEL'S RESERVOIR ESTATE, LLC  
(REC. NO. 3859841)



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Print Date: 9/17/2025  
 File Name: TRAF P3-001\_SIGNING AND STRIPING PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: 1/4" = 1'-0"

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Sheet Revisions		
Date	Comments	Initials



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No Revisions:

Revised:

Void:

**37TH ST & 65TH AVE INTERSECTION  
SIGNING AND STRIPING PLAN**

Designer: T. Tuttle  
 Detailer: S. Hemler

Sheet Subset: TRAFFIC  
 Subset Sheets: 2 of 8

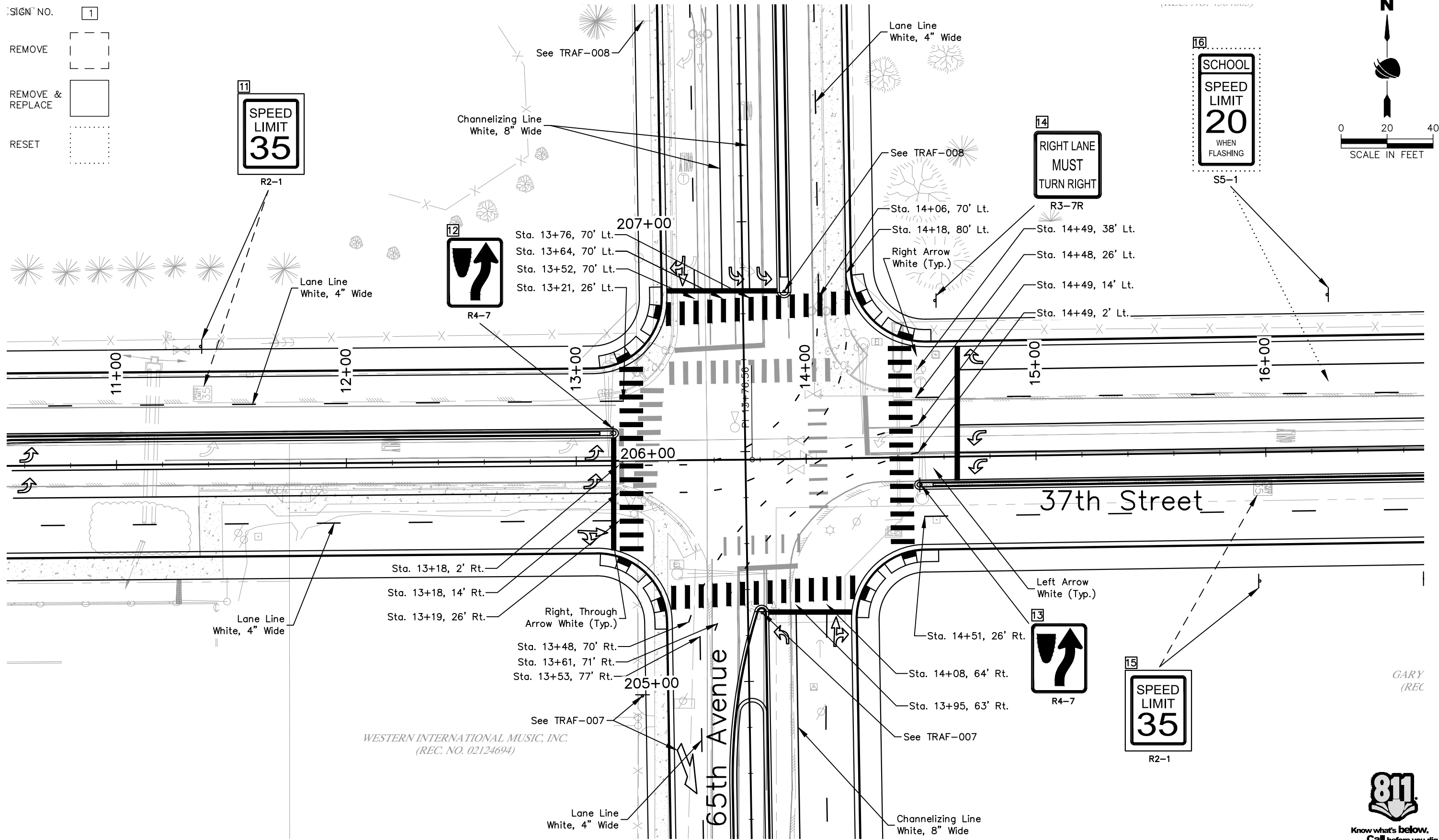
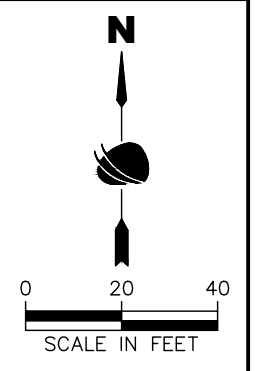
**Project No.**  
STU M415-025

Drawing Number TRAF-002

Sheet Number 173

All seals for this set of drawings are applied to the cover page(s)

SIGN NO. 1  
 REMOVE [dashed box]  
 REMOVE & REPLACE [solid box]  
 RESET [dotted box]



WESTERN INTERNATIONAL MUSIC, INC.  
 (REC. NO. 02124694)

GARY  
 (REC)



Plot Date: 9/17/2025 1:15 PM Plotted By: Sarah Hemler  
 C:\PROJECTS\TRAFFIC\PROJECTS\37TH ST AND 65TH AVE INTERSECTION DESIGN\800\_COMPUTER DESIGN FILES\802\_SHEET FILES\TRAF P3-001\_SIGNING AND STRIPING PLAN.DWG

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Print Date: 9/17/2025  
 File Name: TRAF P3-001\_SIGNING AND STRIPING PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: 1"=10'  
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 Thornton, CO 80241  
 Ph: (303) 962-9300  
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



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 No Revisions:  
 Revised:  
 Void:

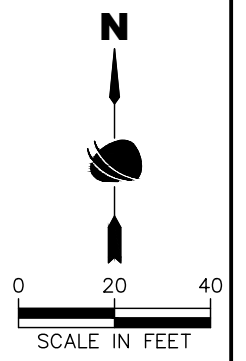
**37TH ST & 65TH AVE INTERSECTION SIGNING AND STRIPING PLAN**

Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler		
Sheet Subset:	TRAFFIC	Subset Sheets:	3 of 8

**Project No.**  
 STU M415-025  
 Drawing Number TRAF-003  
 Sheet Number 174

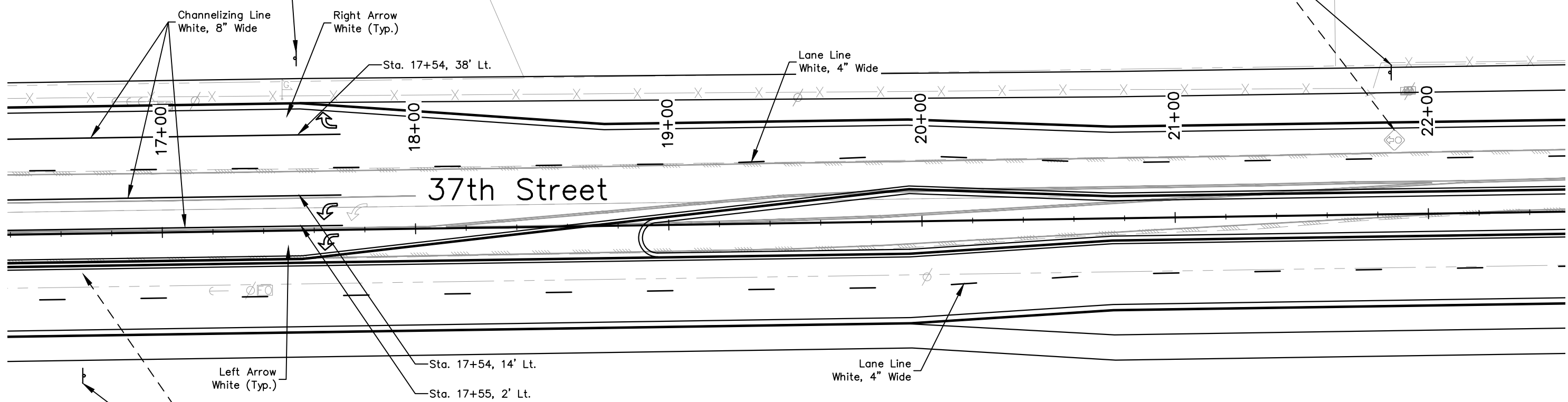
SIGN NO. 1  
 REMOVE   
 REMOVE & REPLACE

TRACT 2  
 CITY OF EVANS  
 (REC. NO. 3615971)



18  
 RIGHT LANE  
 MUST  
 TURN RIGHT  
 R3-7R

19  
  
 W3-3



GARY W. WIEDEMAN  
 (REC. NO. 3869756)

17  
 END  
 SCHOOL  
 ZONE  
 S5-2



Plot Date: 9/17/2025 1:15 PM Plotted By: Sarah Hemler  
 P:\PROJECTS\TRAFFIC PROJECTS\37TH ST AND 65TH AVE INTERSECTION DESIGN\001-COMPUTER DESIGN FILES\02-SHEET FILES\TRAF P3-001 SIGNING AND STRIPING PLAN.DWG

All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025  
 File Name: TRAF P3-001 SIGNING AND STRIPING PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: 1"=10'  
 12076 Grant Street  
 Thornton, CO 80241  
 Ph: (303) 962-9300  
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



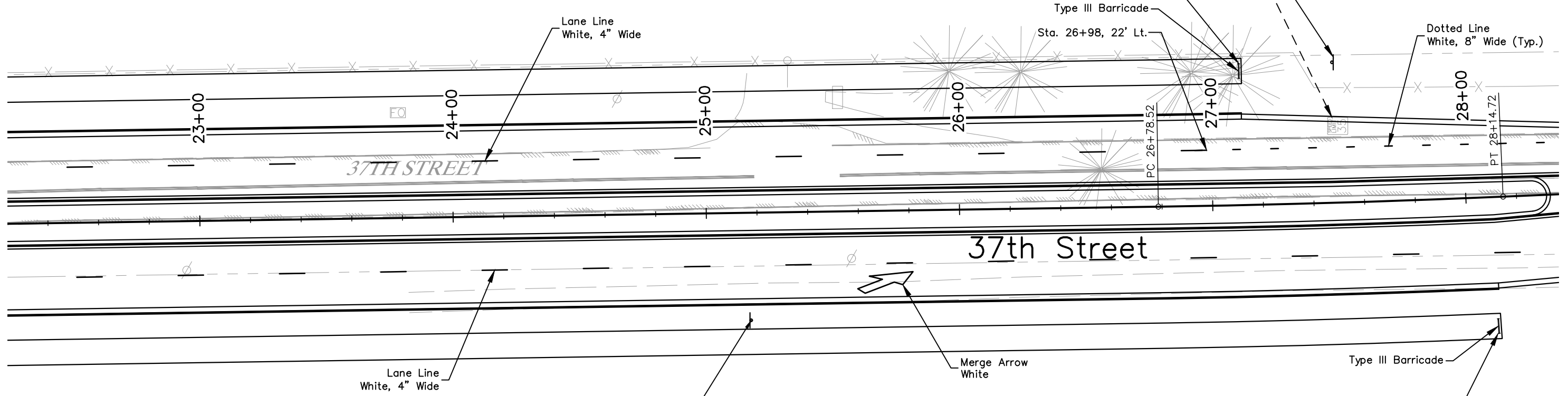
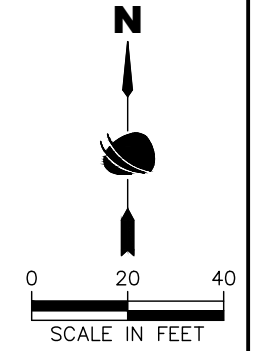
**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION  
 SIGNING AND STRIPING PLAN**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: TRAFFIC  
 Structure Numbers:   
 Subset Sheets: 4 of 8

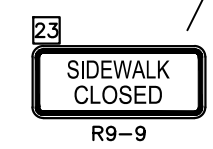
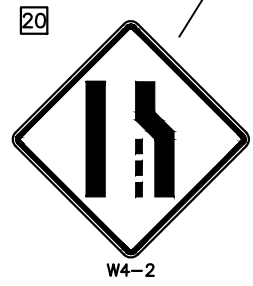
**Project No.**  
 STU M415-025  
 Drawing Number TRAF-004  
 Sheet Number 175

SIGN NO. 1  
 REMOVE   
 REMOVE & REPLACE

TRACT 3  
 JOSHUA BRIAN WELLS  
 (REC. NO. 4384603)



GARY W. WIEDEMAN  
 (REC. NO. 3869756)



Plot Date: 9/17/2025 1:15 PM Plotted By: Sarah Hemler  
 C:\Q-PROJECS\TRAFFIC PROJECTS\37TH ST AND 65TH AVE INTERSECTION DESIGN\00\_COMPUTER DESIGN FILES\02\_SHEET FILES\TRAF P3-001\_SIGNING AND STRIPING PLAN.DWG

All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025
File Name: TRAF P3-001 SIGNING AND STRIPING PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4" = 1'-0"
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



<b>As Constructed</b>
No Revisions:
Revised:
Void:

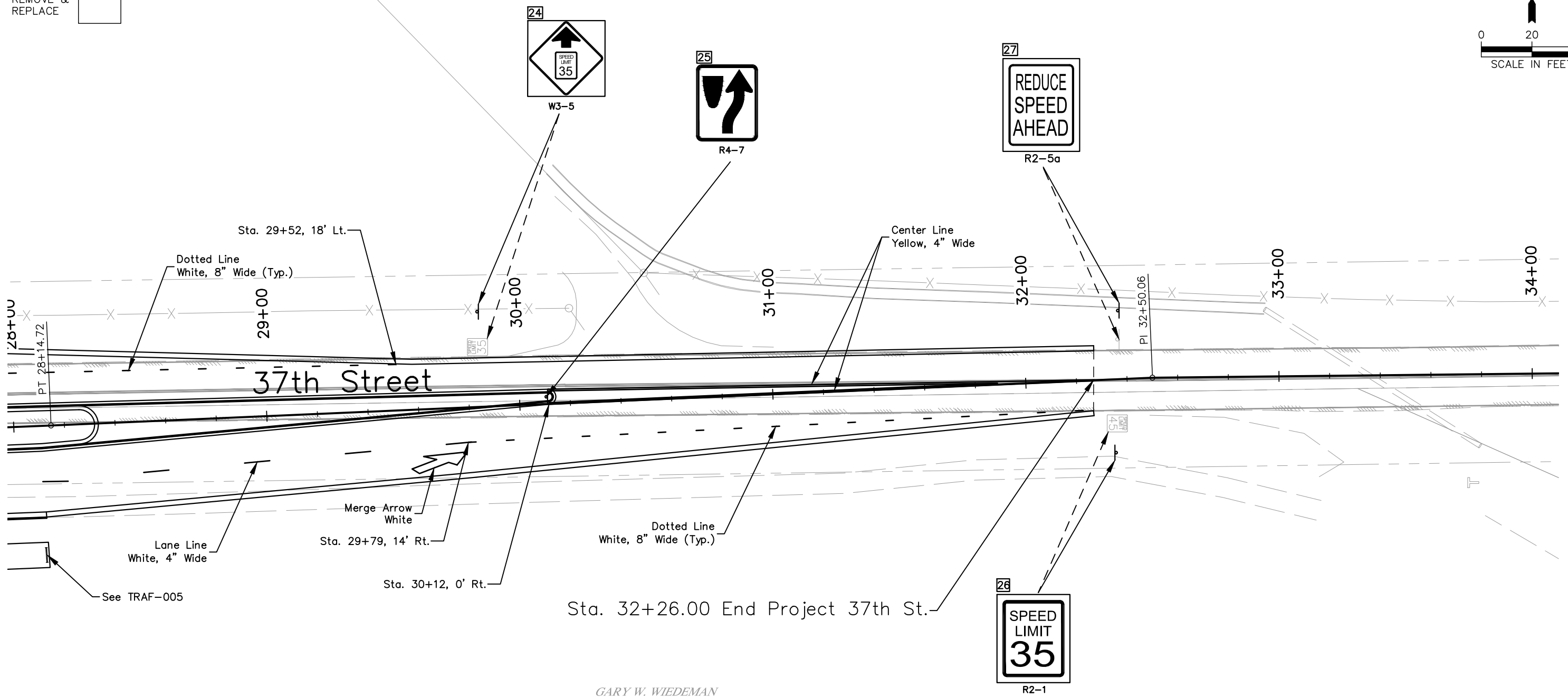
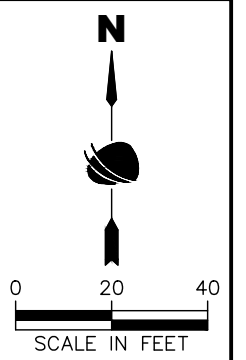
<b>37TH ST &amp; 65TH AVE INTERSECTION SIGNING AND STRIPING PLAN</b>		
Designer: T. Tuttle	Structure Numbers:	
Detailer: S. Hemler		
Sheet Subset: TRAFFIC	Subset Sheets: 5 of 8	

<b>Project No.</b>
STU M415-025
Drawing Number TRAF-005
Sheet Number 176

SIGN NO. 1

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Sta. 32+26.00 End Project 37th St.

GARY W. WIEDEMAN  
(REC. NO. 3869756)



Plot Date: 9/17/2025 1:15 PM Plotted By: Sarah Hemler  
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025
File Name: TRAF P3-001 SIGNING AND STRIPING PLAN.DWG
Horiz. Scale: As Noted Vert. Scale: 1/4" = 1'-0"
12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

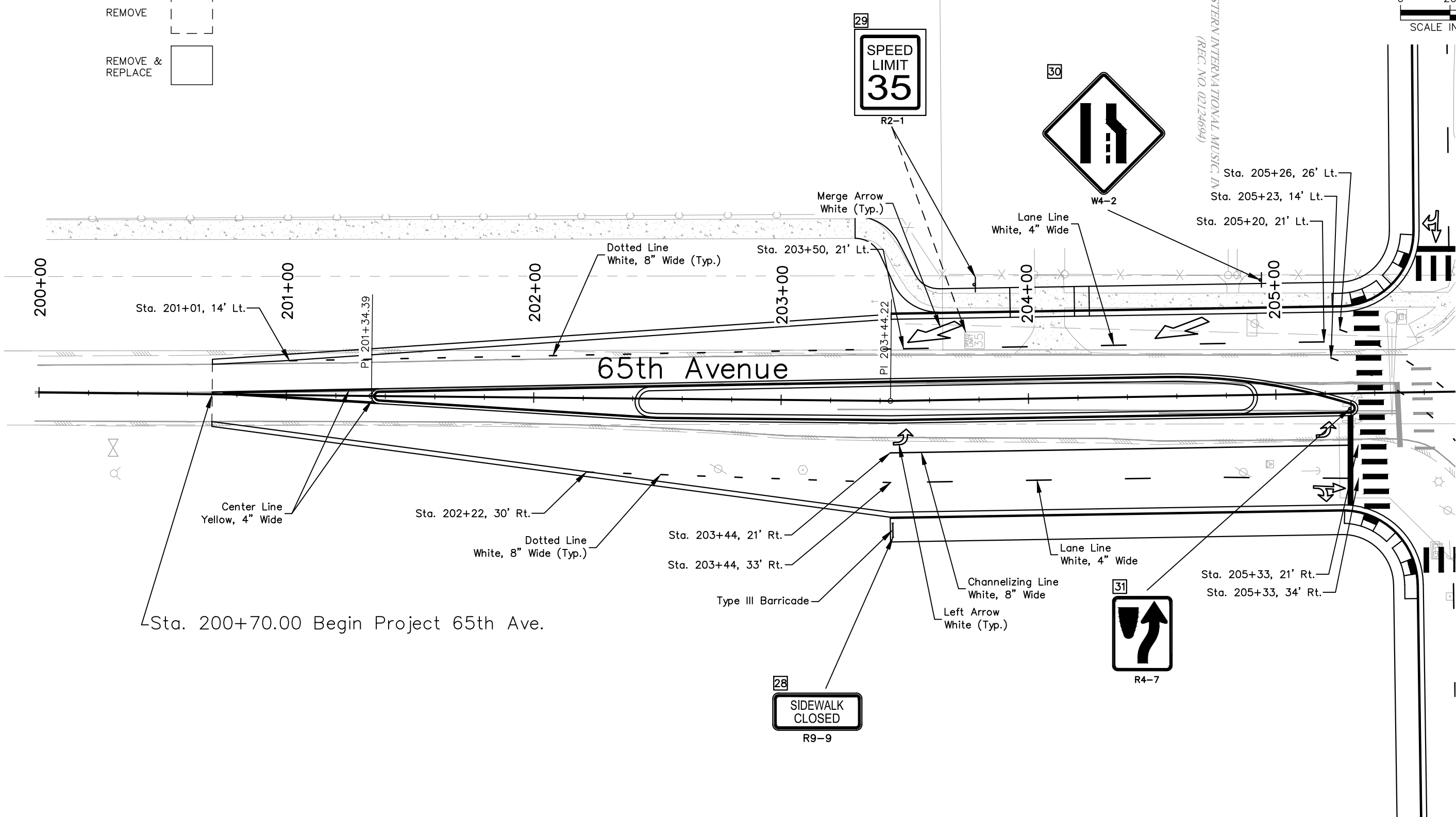
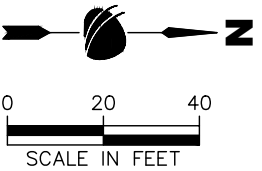


<b>As Constructed</b>
No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION SIGNING AND STRIPING PLAN</b>		
Designer: T. Tuttle	Structure Numbers:	
Detailer: S. Hemler		
Sheet Subset: TRAFFIC	Subset Sheets: 6 of 8	

<b>Project No.</b>
STU M415-025
Drawing Number TRAF-006
Sheet Number 177

SIGN NO. 1  
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Print Date: 9/17/2025  
 File Name: TRAF P3-001 SIGNING AND STRIPING PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: 1"=1'-0"

Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

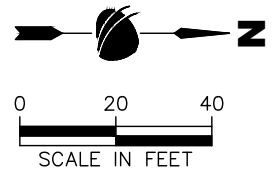
**37TH ST & 65TH AVE INTERSECTION SIGNING AND STRIPING PLAN**

Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler		
Sheet Subset:	TRAFFIC	Subset Sheets:	7 of 8

**Project No.**  
 STU M415-025  
 Drawing Number TRAF-007  
 Sheet Number 178

All seals for this set of drawings are applied to the cover page(s)

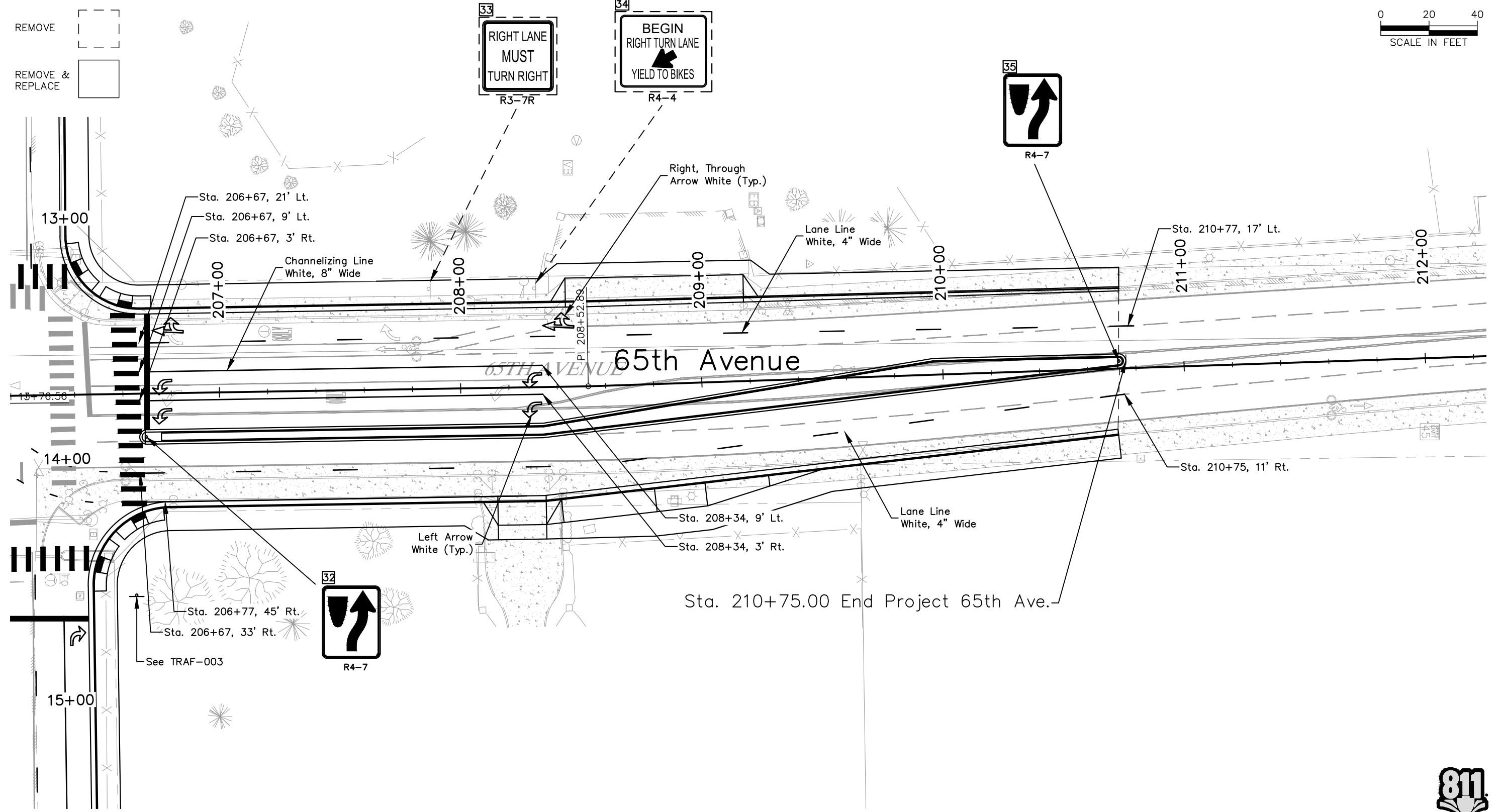
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025  
 File Name: TRAF P3-001 SIGNING AND STRIPING PLAN.DWG  
 Horiz. Scale: As Noted Vert. Scale: 1/4" = 1'-0"

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Sheet Revisions		
Date	Comments	Initials



<b>As Constructed</b>
No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION SIGNING AND STRIPING PLAN</b>		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	TRAFFIC	Subset Sheets: 8 of 8

<b>Project No.</b>
STU M415-025
Drawing Number TRAF-008
Sheet Number 179

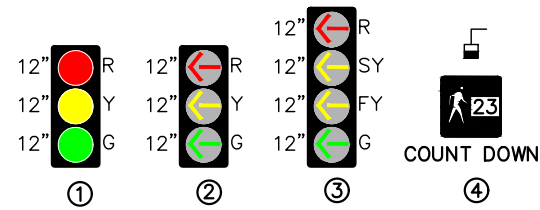
**SIGNAL EQUIPMENT LEGEND**

**PROPOSED**

- CONTROLLER CABINET
- PULL BOX
- ELECTRIC METER
- PEDESTRIAN PUSH BUTTON AND SIGN
- SIGNAL FACE WITH BACKPLATE
- UNDERGROUND CONDUIT
- MICROWAVE RADAR DETECTOR
- MICROWAVE DETECTION
- MAST ARM MOUNTED SIGN

**EXISTING**

- PULL BOX (24"x36"x18")
- PEDESTRIAN PUSH BUTTON AND SIGN
- POLE AND MAST ARM



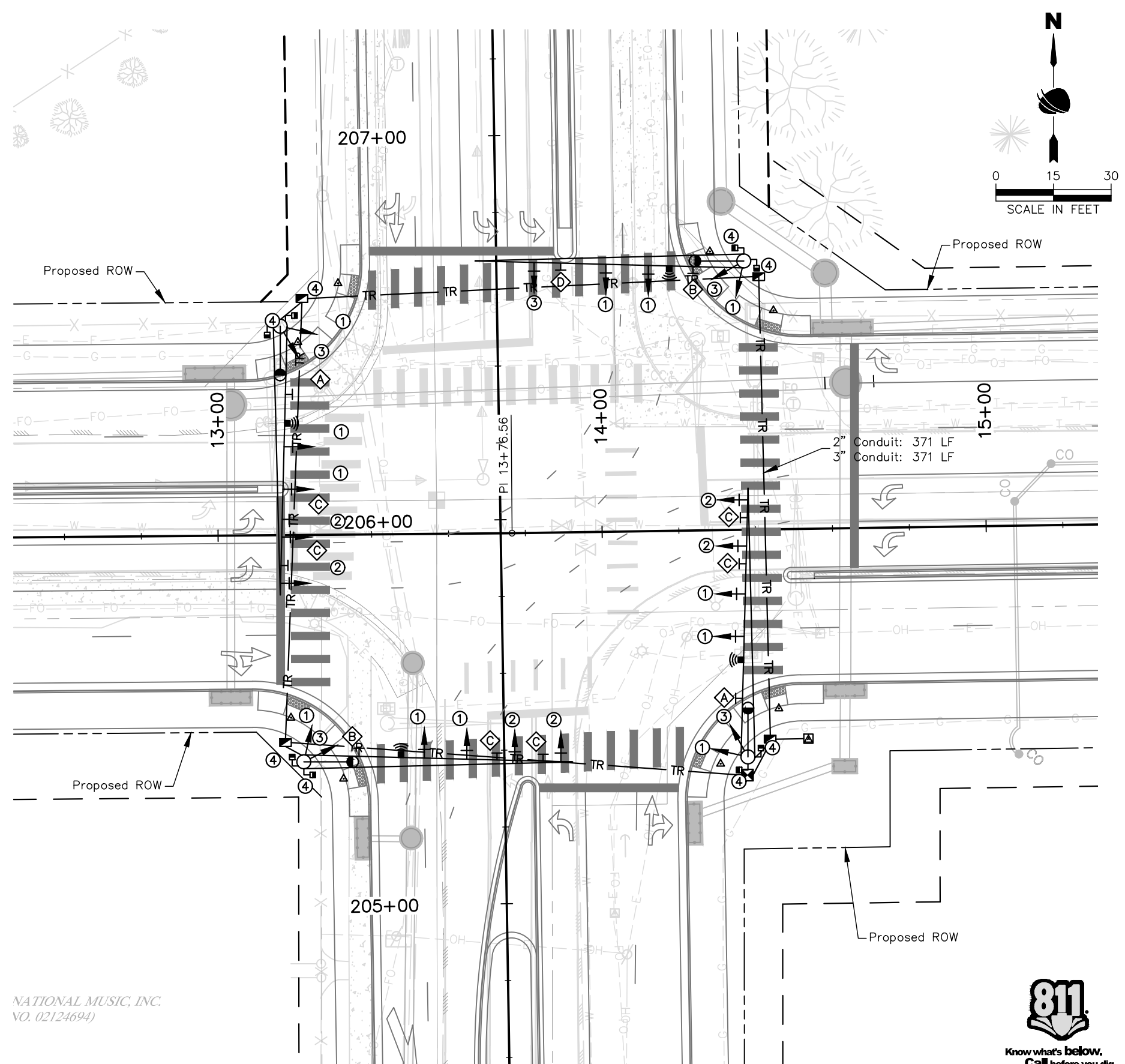
**PROPOSED PHASING**

- ø1 - Southbound Left Turn
- ø2 - Northbound
- ø3 - Westbound Left Turn
- ø4 - Eastbound
- ø5 - Northbound Left Turn
- ø6 - Southbound
- ø7 - Eastbound Left Turn
- ø8 - Westbound



**TABULATION OF SIGNAL ITEMS**

PAY ITEM	DESCRIPTION	PAY UNIT	TOTAL QUANTITY
503-00054	DRILLED SHAFT (54 INCH)	LF	82
613-00200	2 INCH ELECTRICAL CONDUIT	LF	371
613-00300	3 INCH ELECTRICAL CONDUIT	LF	371
613-07034	PULL BOX (24" X36"X18")	EACH	4
613-10000	WIRING	LS	1
613-13006	15' LUMINAIRE ARM	EACH	4
613-50109	METER POWER PEDESTAL	EACH	1
613-80130	SERVICE METER CABINET	EACH	1
614-70117	PEDESTRIAN SIGNAL FACE (16)	EACH	8
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	20
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EACH	2
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1
614-72860	PEDESTRIAN PUSH BUTTON	EACH	8
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (5 FOOT)	EACH	8
614-72864	FIRE PREEMPTION UNIT	EACH	2
614-72887	MICROWAVE VEHICLE RADAR DETECTOR	EACH	4
614-81170	TRAFFIC SIGNAL - LIGHT POLE STEEL (1-70 FOOT MAST ARM)	EACH	4
614-86000	TRAFFIC SIGNAL CONTROLLER	EACH	1
614-87333	CLOSED CIRCUIT TELEVISION (TRAFFIC SURVEILLANCE)	EACH	1



90% DRAFT PLANS



Print Date: 9/17/2025  
 File Name: SIG P3-001 TRAFFIC SIGNAL.DWG  
 Horiz. Scale: As Noted Vert. Scale: N/A

**RockSol** Consulting Group, Inc.  
 12076 Grant Street  
 Thornton, CO 80241  
 Ph: (303) 962-9300  
 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

**37TH ST & 65TH AVE INTERSECTION TRAFFIC SIGNAL PLAN**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: SIGNAL

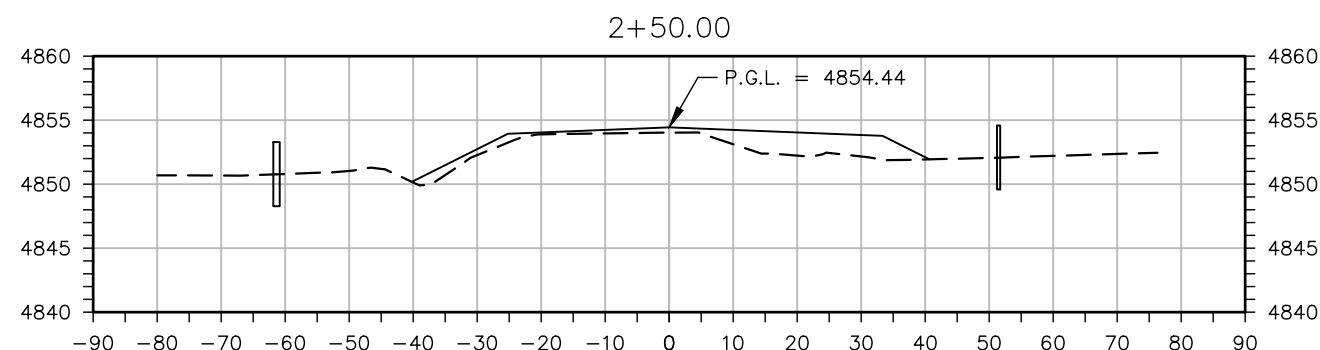
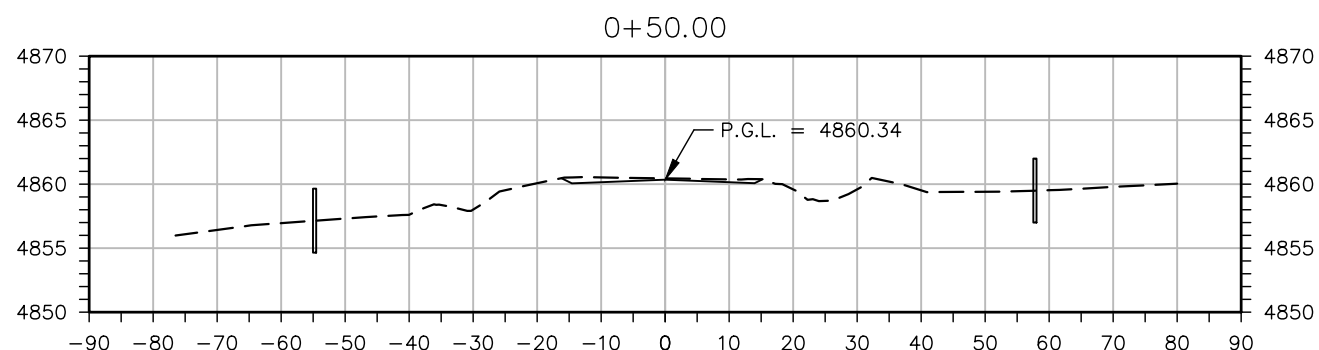
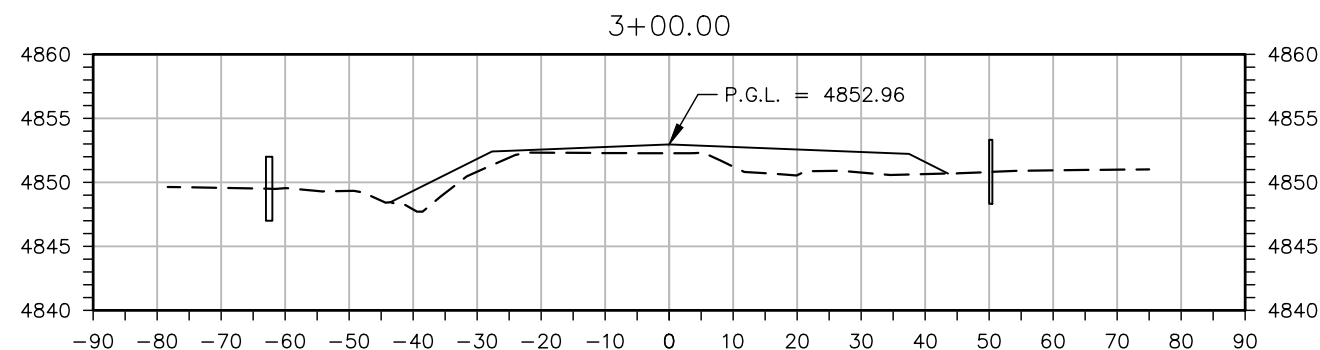
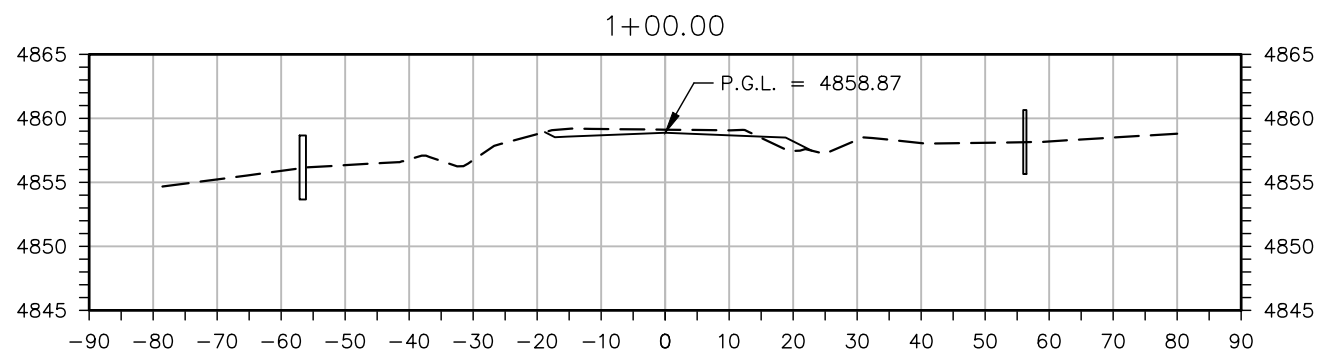
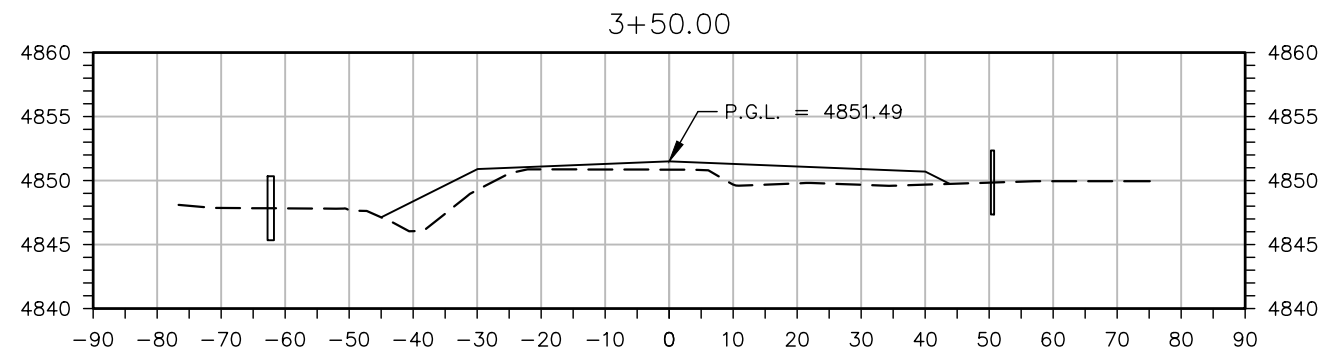
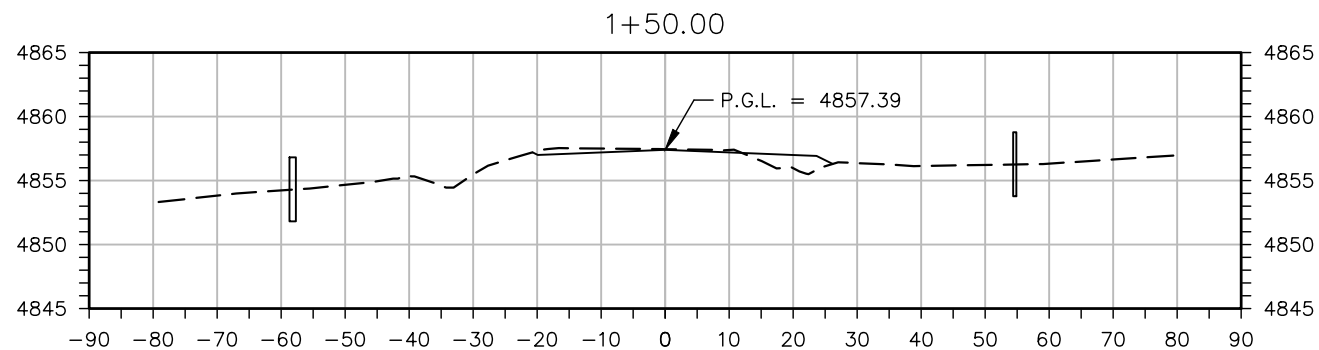
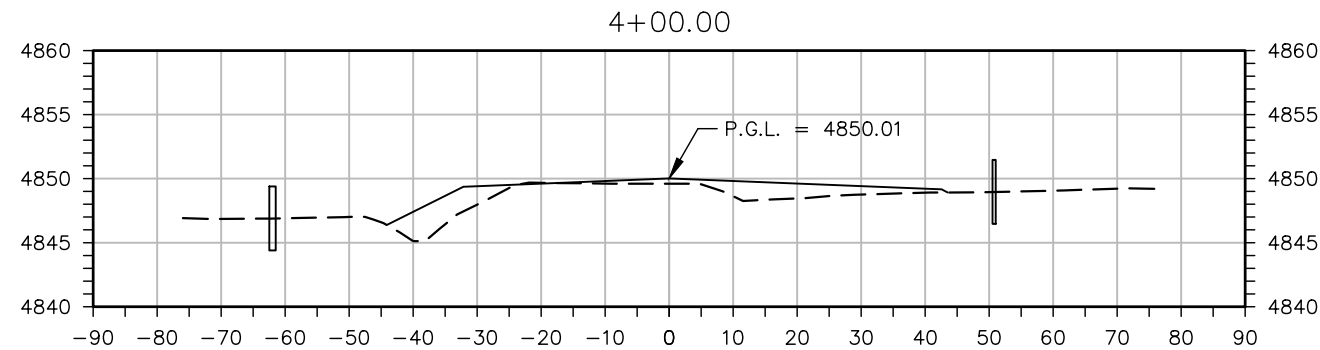
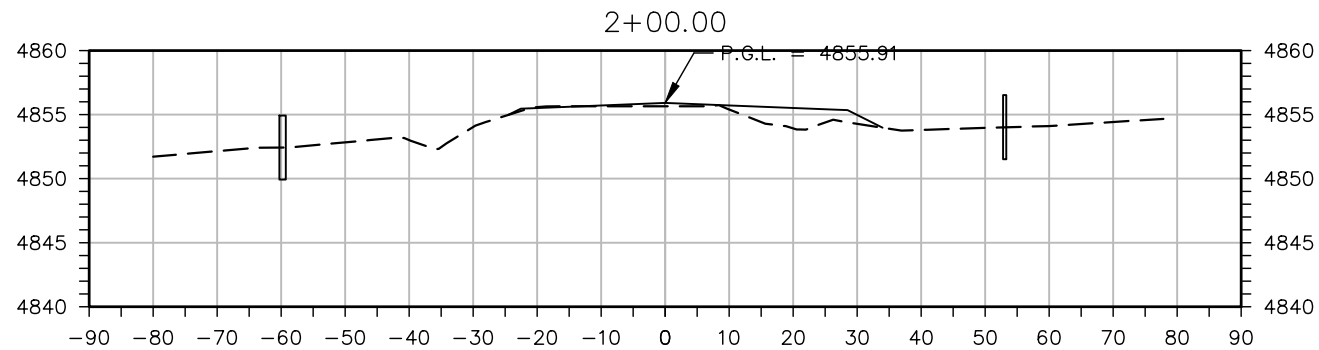
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 Subset Sheets: 1 of 1

**Project No.**  
 STU M415-025

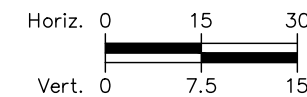
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Plot Date: 9/17/2025 1:11 PM Plotted By: Sarah Hemler  
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Plot Date: 9/17/2025 1:11 PM Plotted By: Sarah Hemler  
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Sta. 0+45.00 Begin Project 37th St.



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Sheet Revisions		
Date	Comments	Initials



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<b>37TH ST &amp; 65TH AVE INTERSECTION CROSS SECTIONS</b>	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 1 of 11

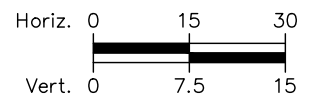
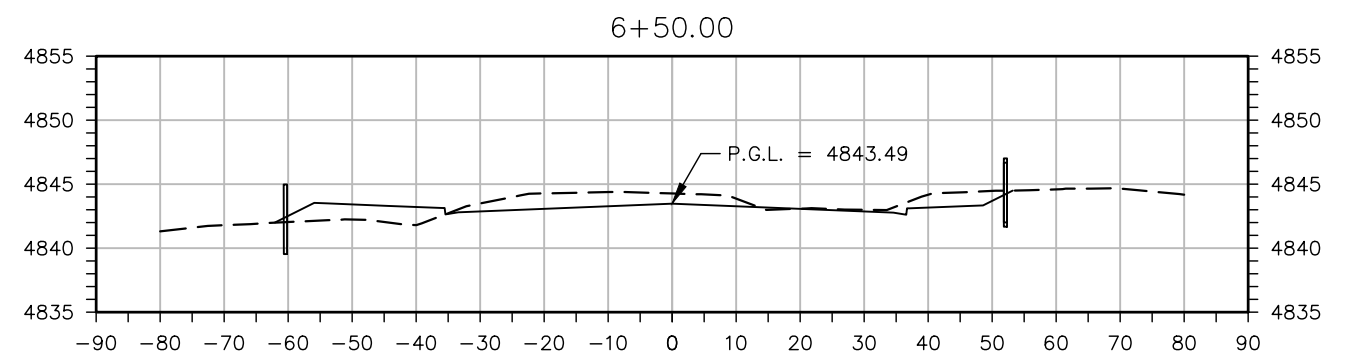
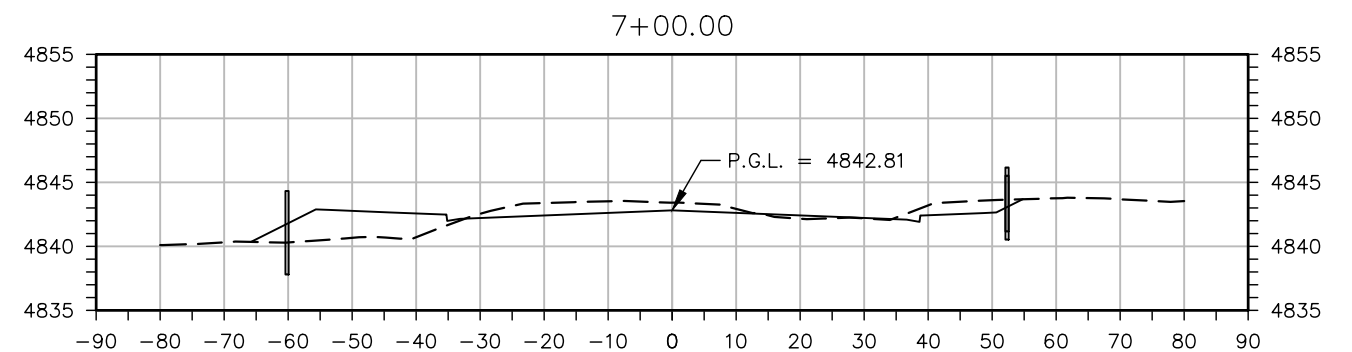
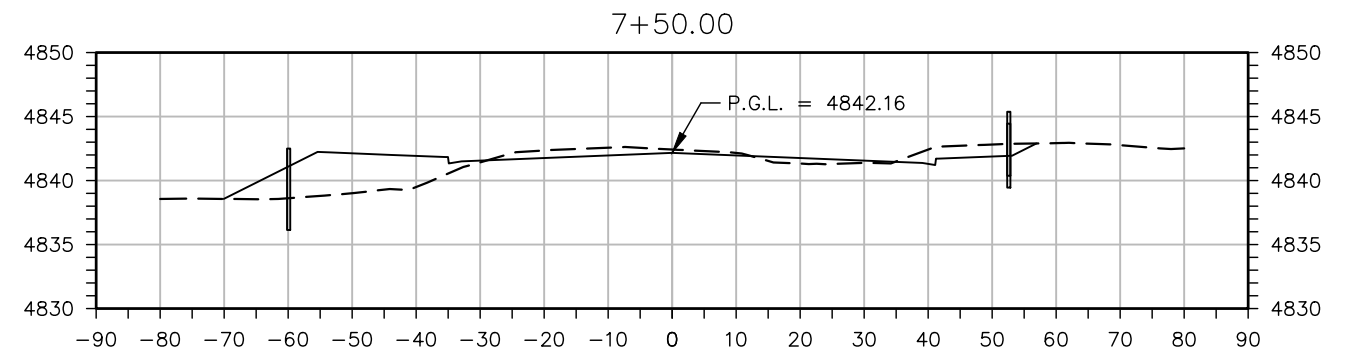
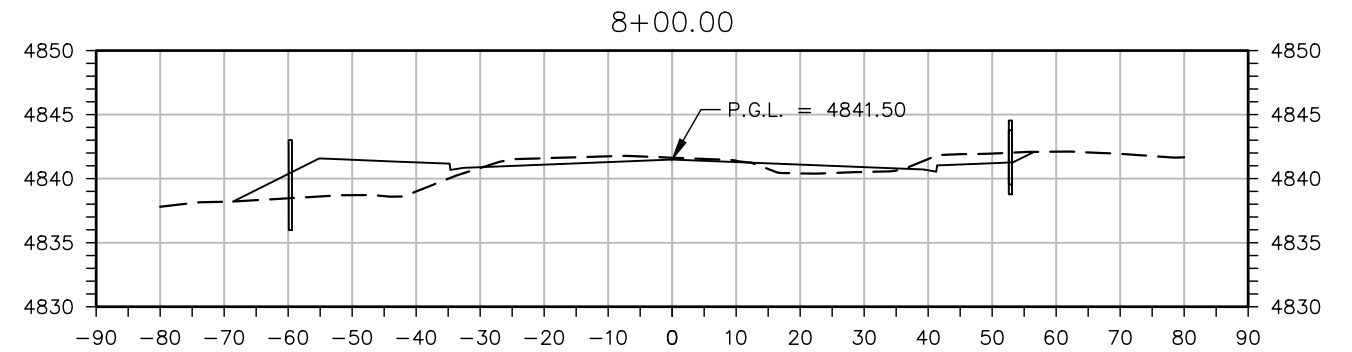
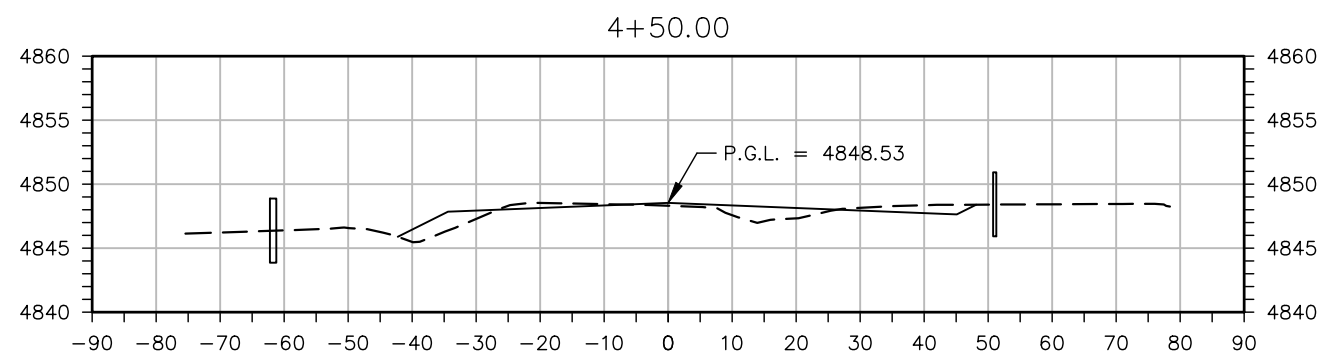
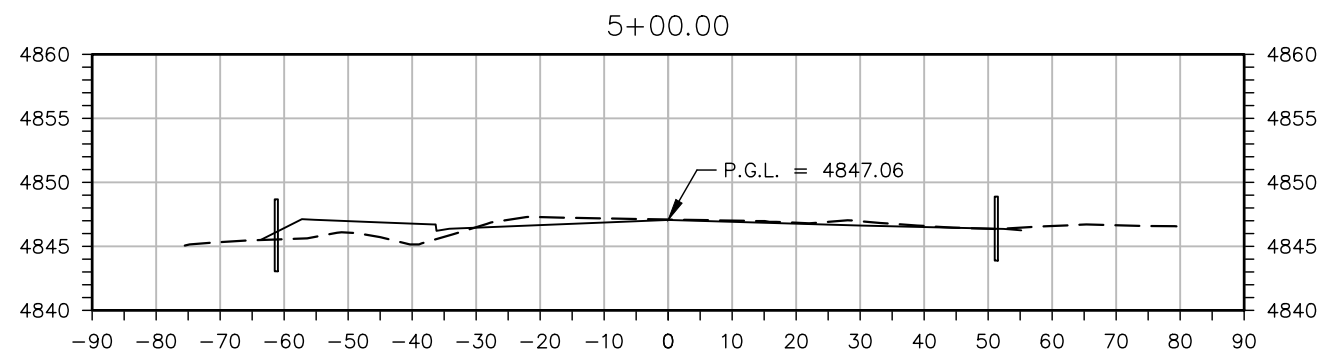
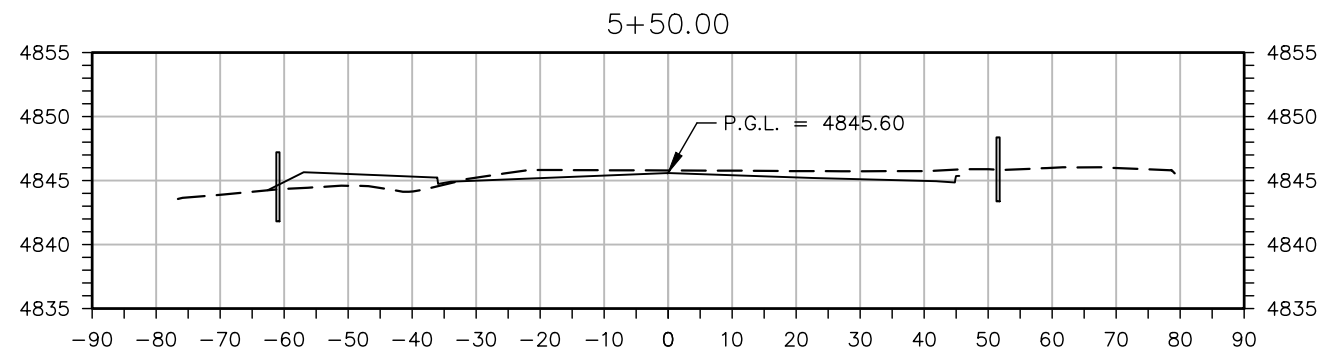
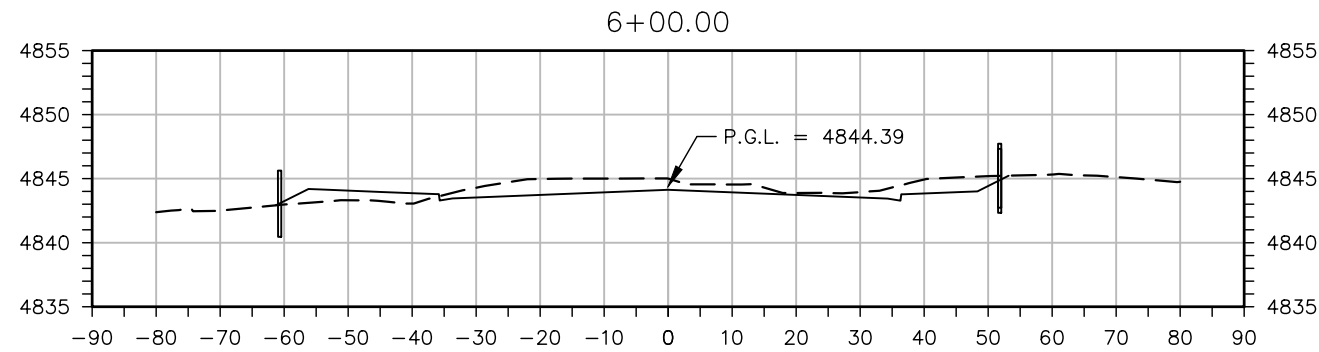
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STU M415-025
Drawing Number XS-001
Sheet Number 200

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**37TH ST & 65TH AVE INTERSECTION CROSS SECTIONS**

Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: X SECTIONS

**Project No.**

STU M415-025  
 Drawing Number XS-002  
 Sheet Number 201

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File Name: XS P3-001 CROSS SECTIONS.DWG

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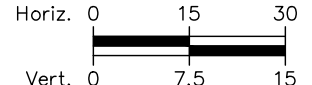
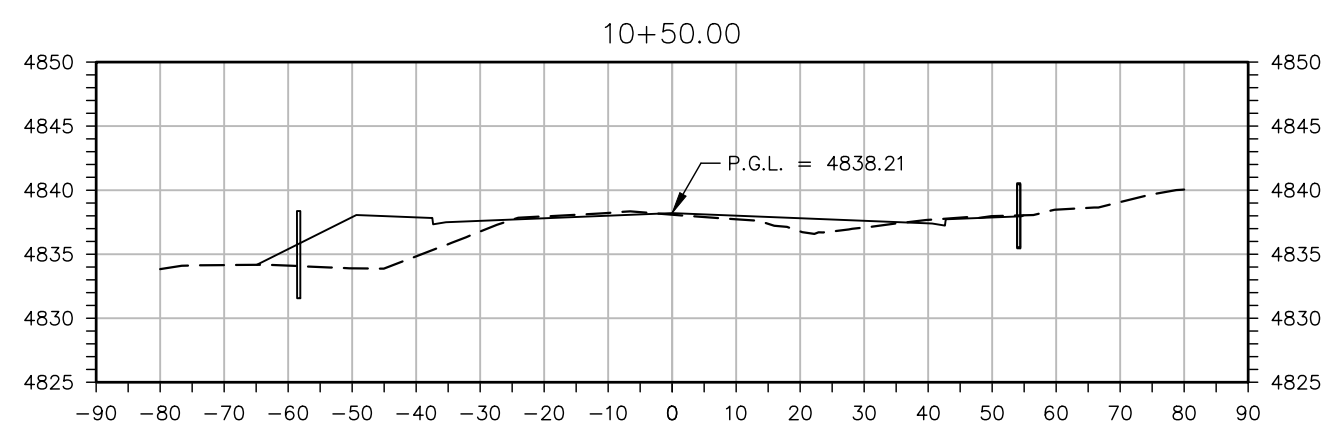
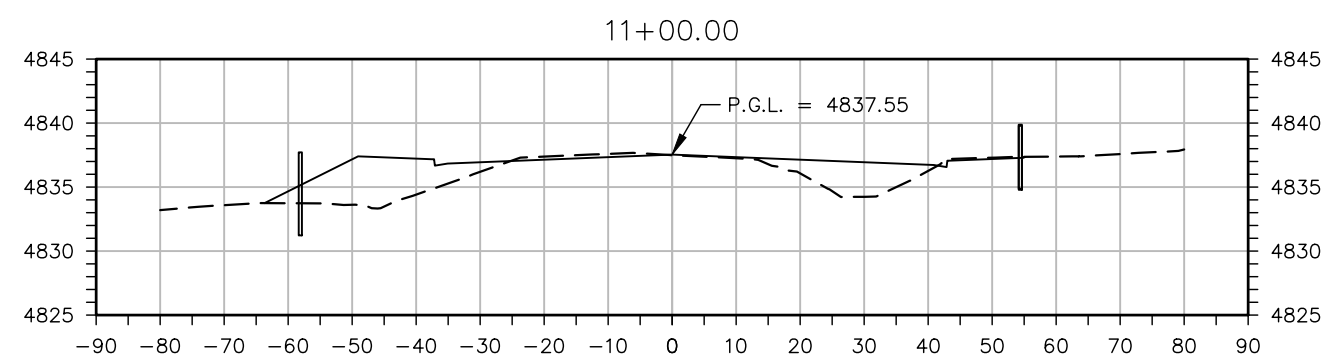
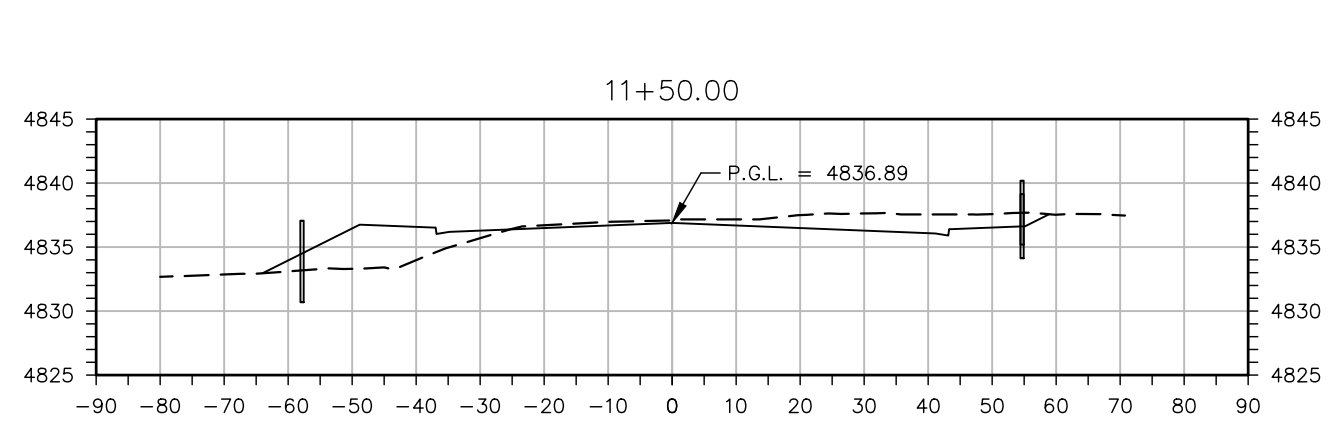
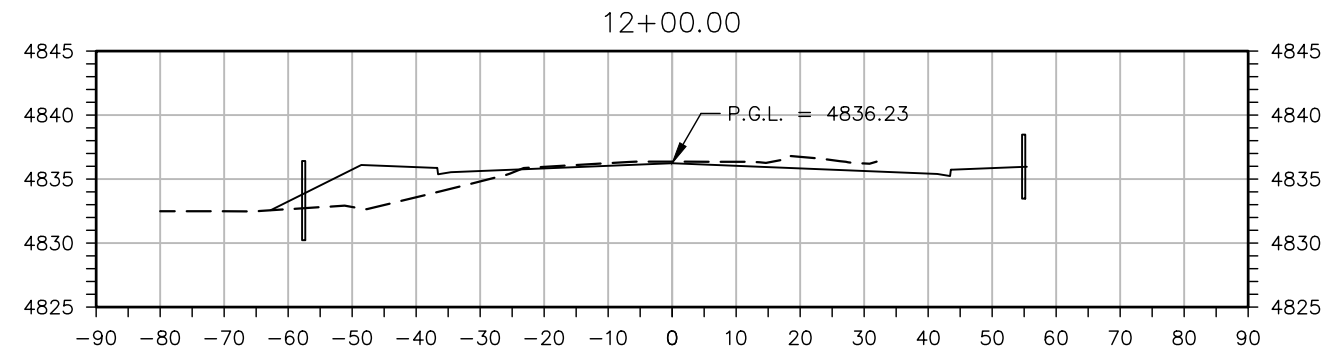
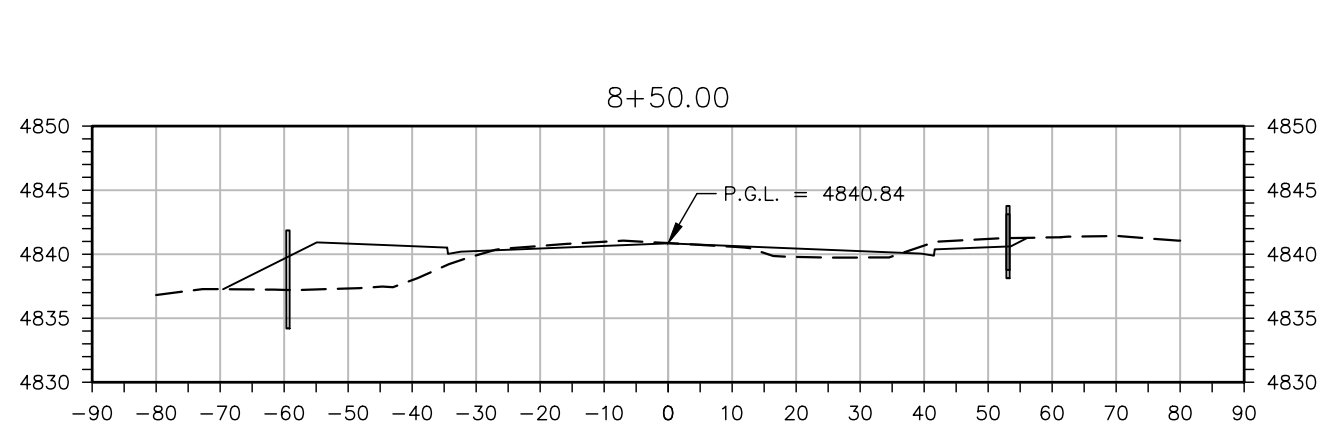
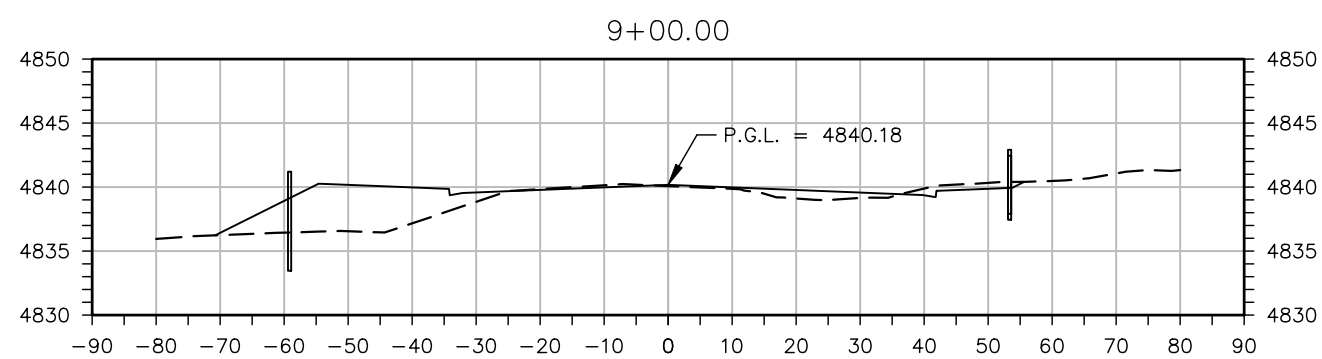
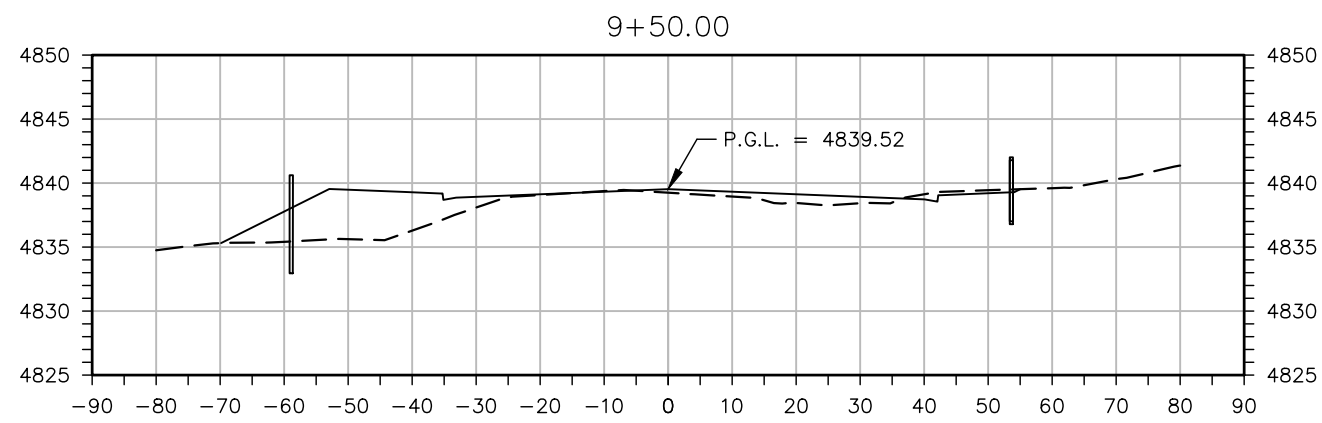
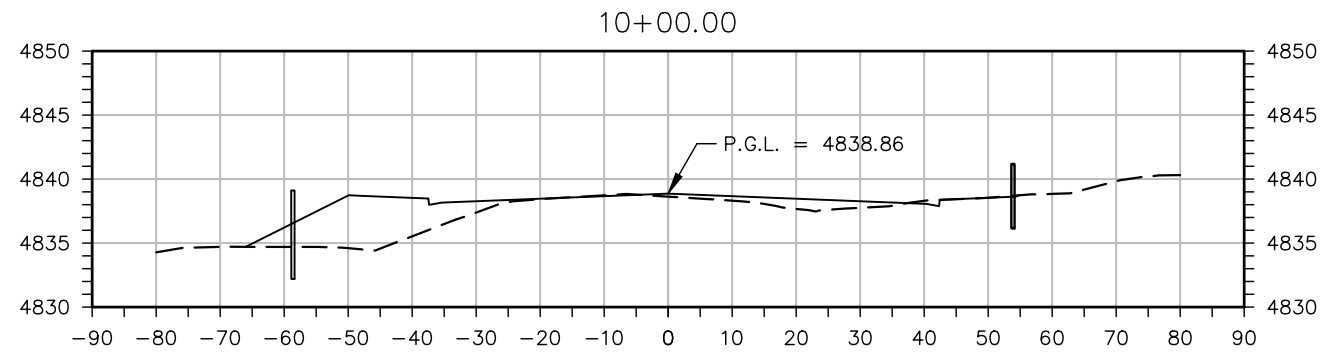
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Date	Comments	Initials



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<b>37TH ST &amp; 65TH AVE INTERSECTION CROSS SECTIONS</b>		
Designer: T. Tuttle	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: X SECTIONS	Subset Sheets: 3 of 11	

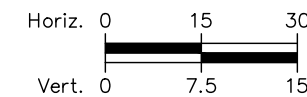
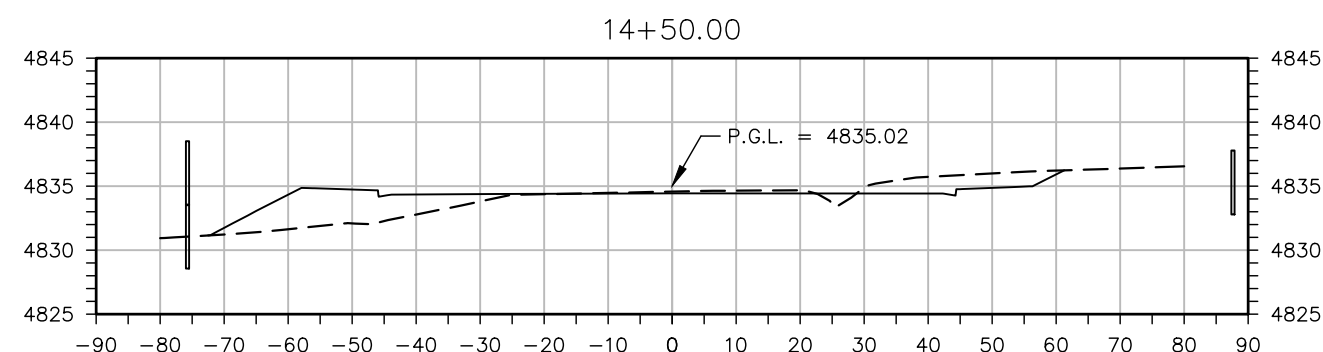
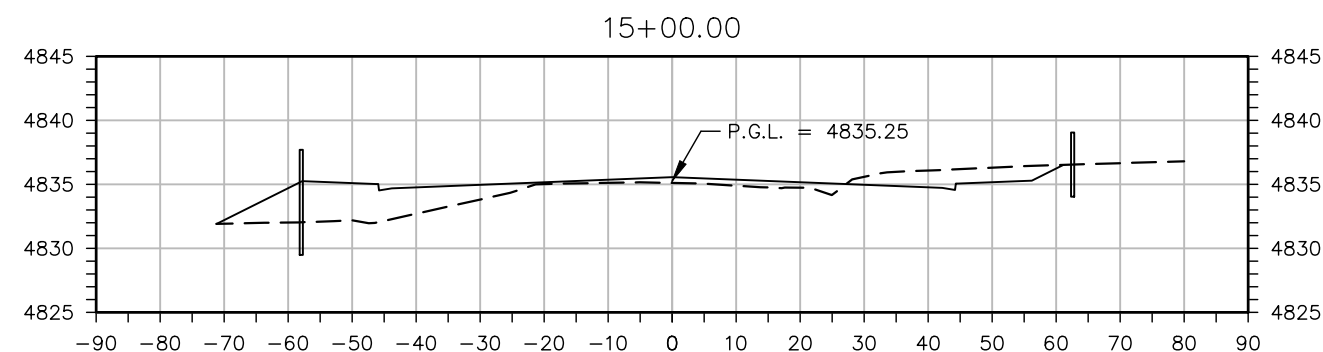
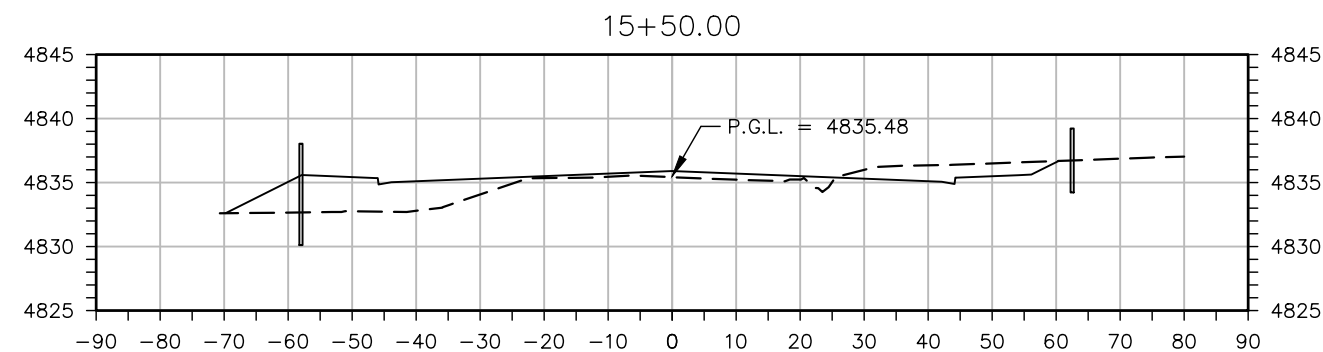
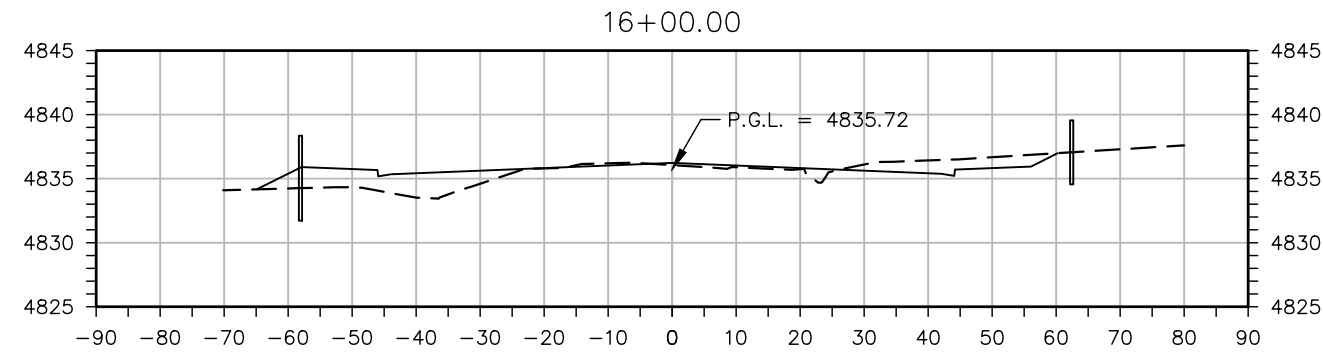
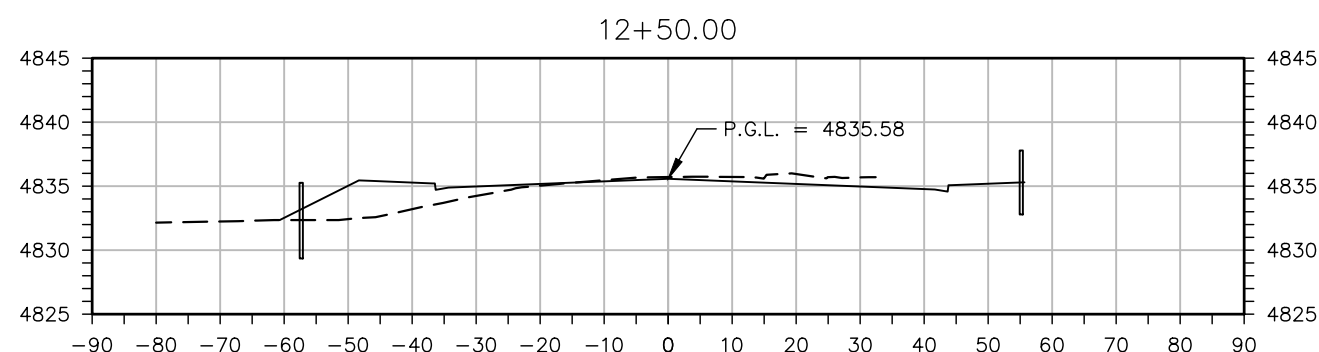
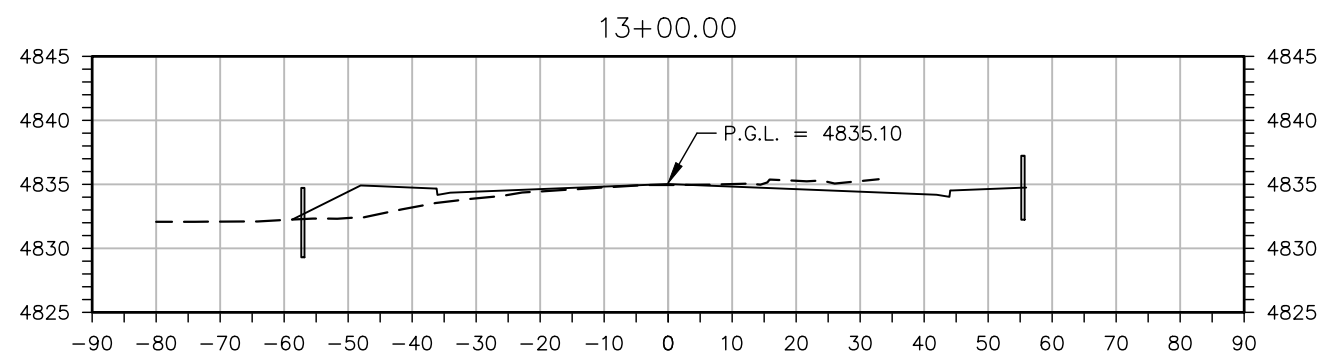
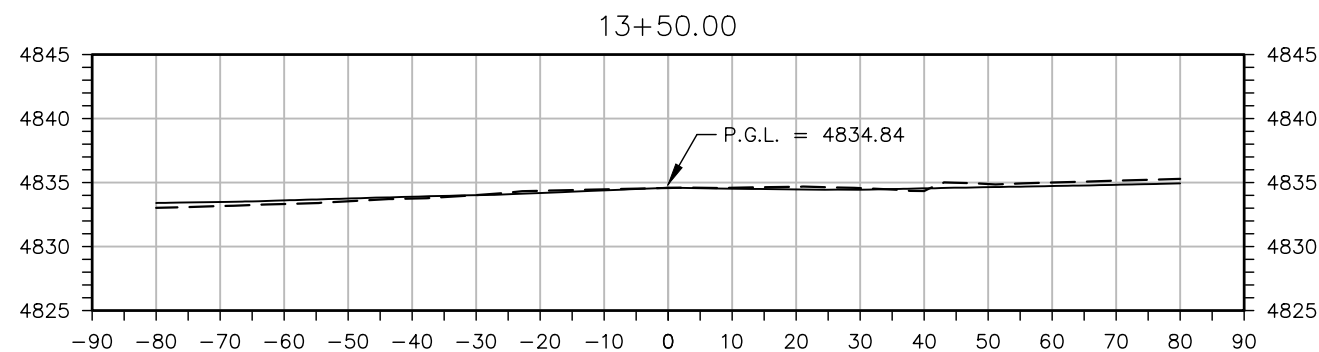
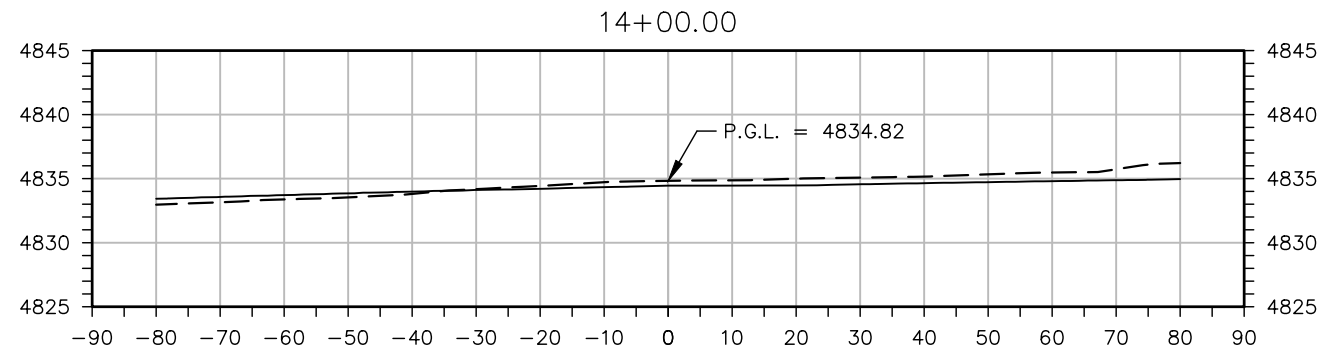
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STU M415-025
Drawing Number XS-003
Sheet Number 202

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**37TH ST & 65TH AVE INTERSECTION CROSS SECTIONS**

Designer:	T. Tuttle	Structure Numbers:	
Detailer:	S. Hemler		
Sheet Subset:	X SECTIONS	Subset Sheets:	4 of 11

**Project No.**

STU M415-025  
Drawing Number XS-004  
Sheet Number 203

All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2025

File Name: XS P3-001 CROSS SECTIONS.DWG

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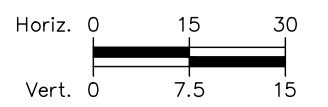
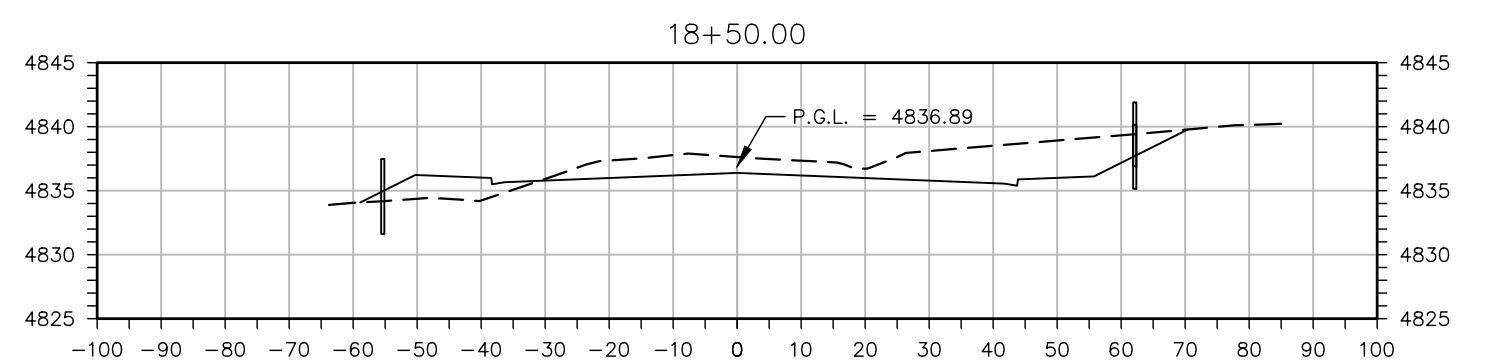
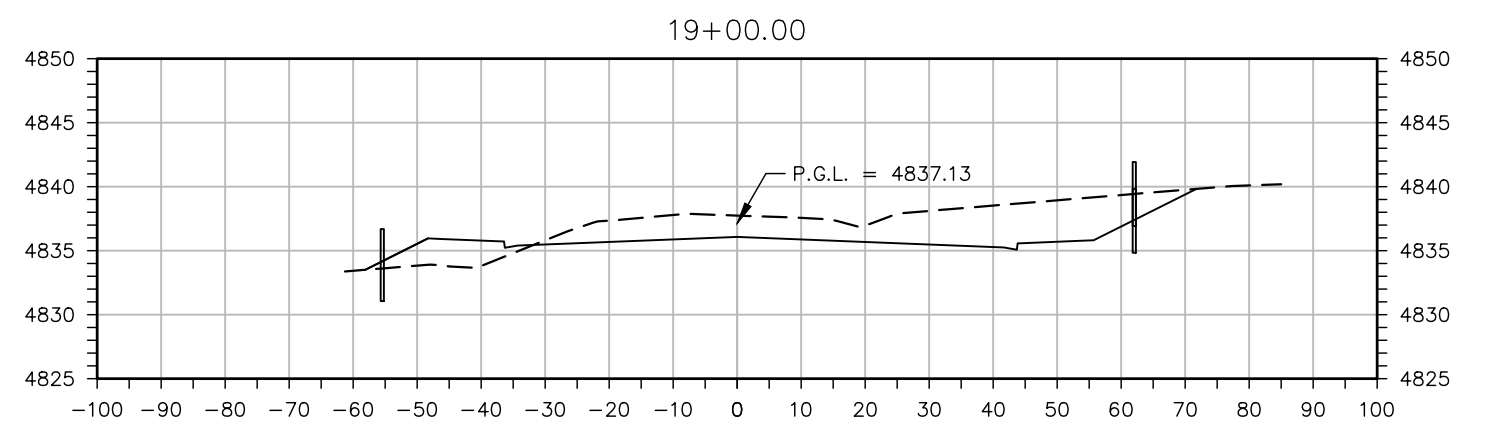
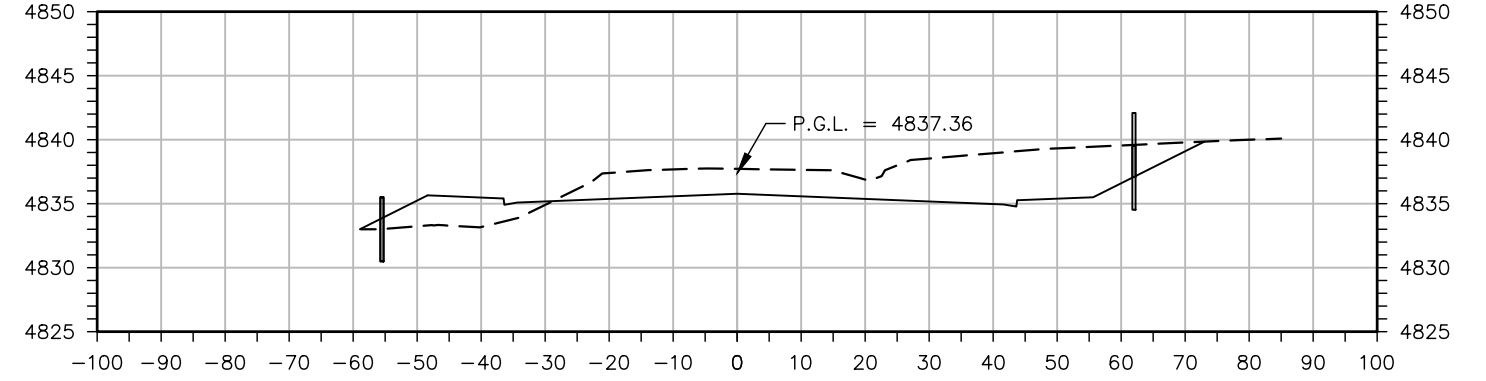
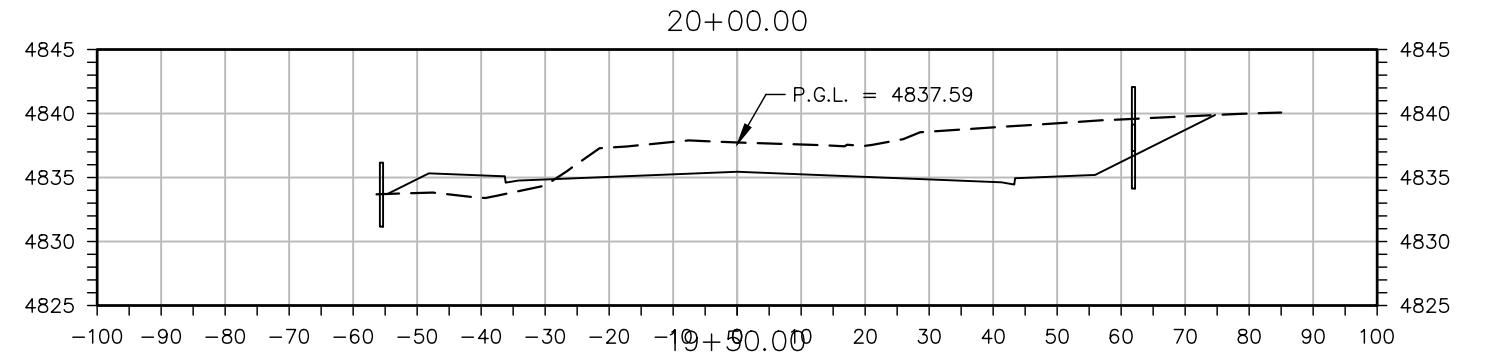
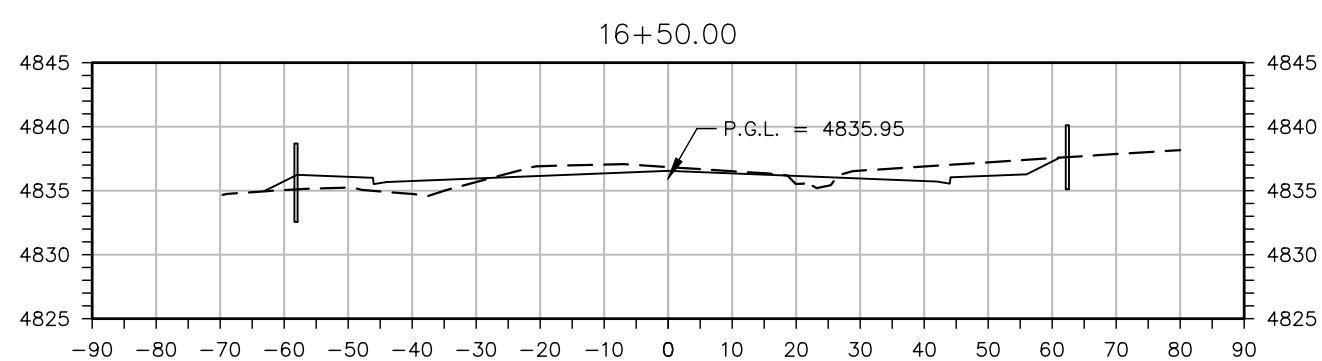
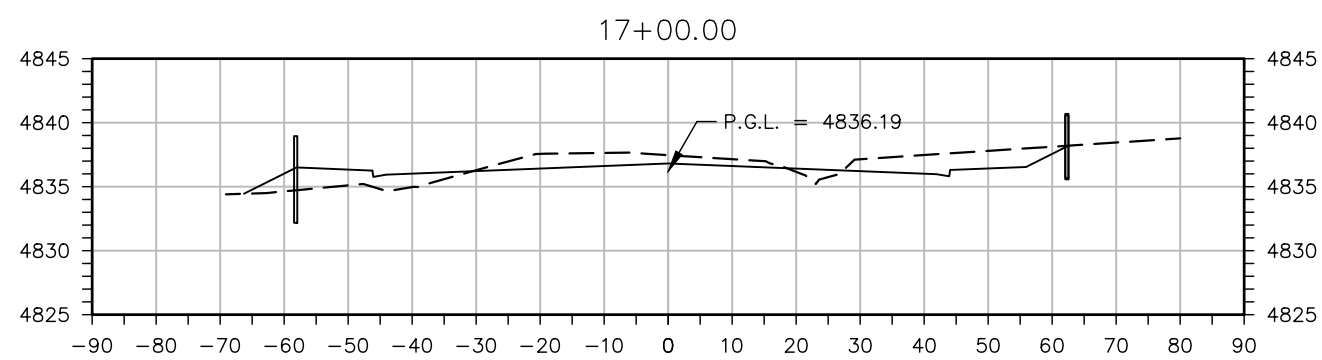
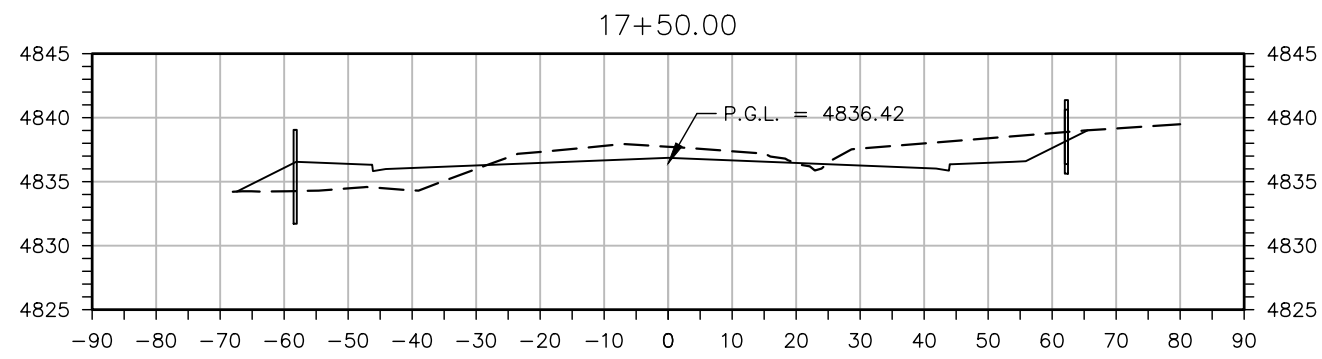
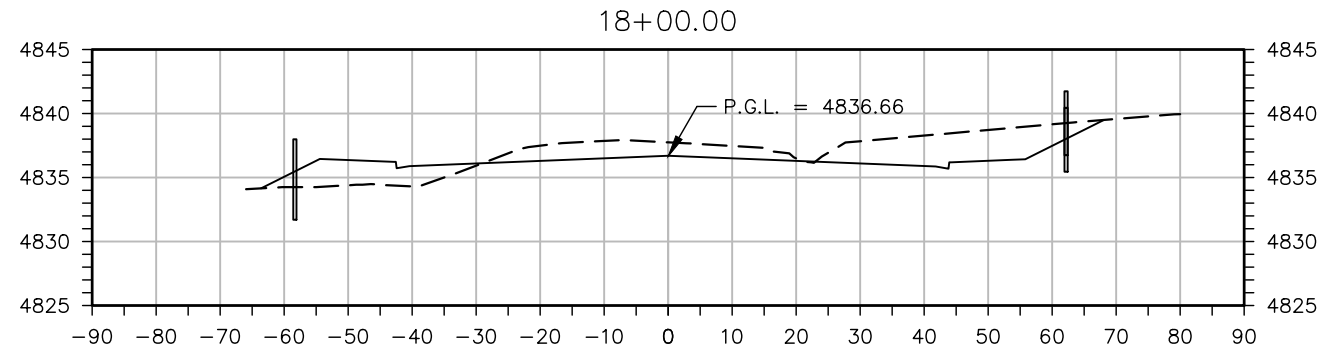
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**37TH ST & 65TH AVE INTERSECTION CROSS SECTIONS**

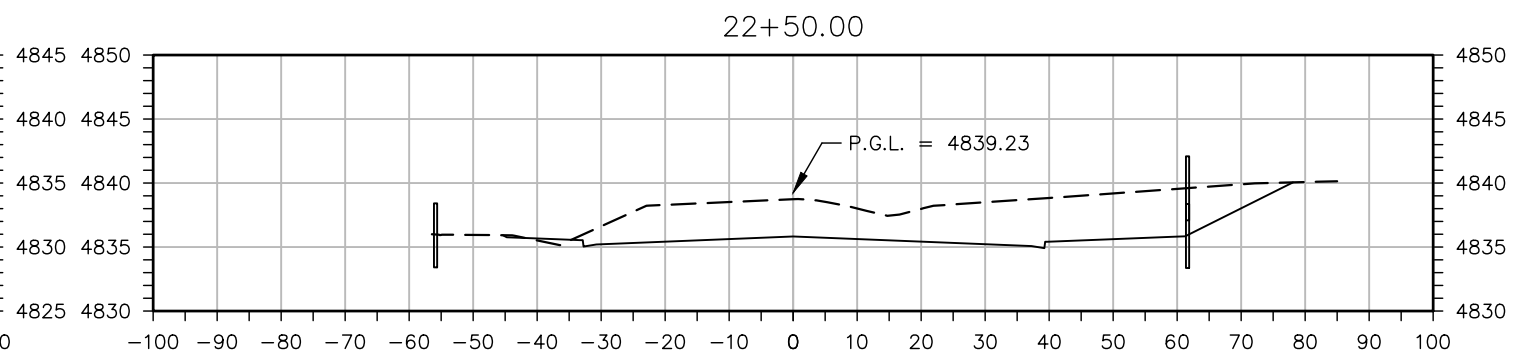
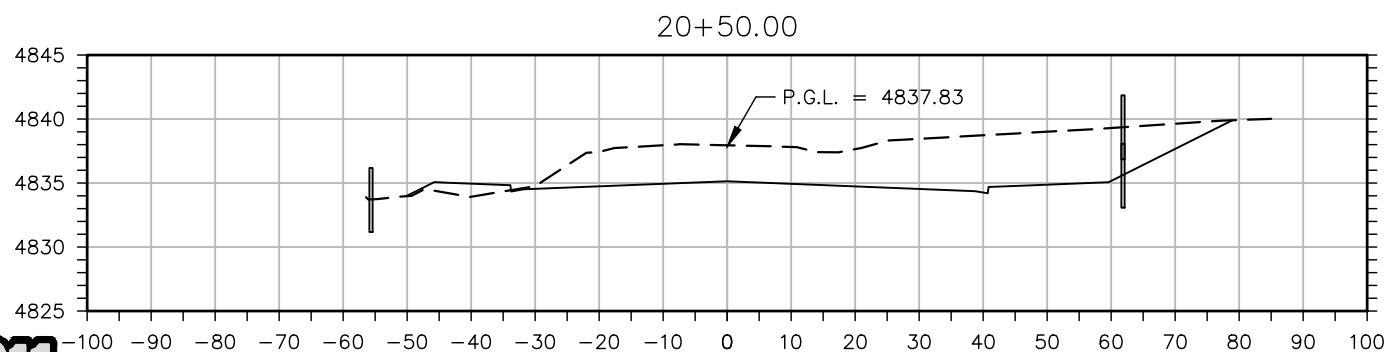
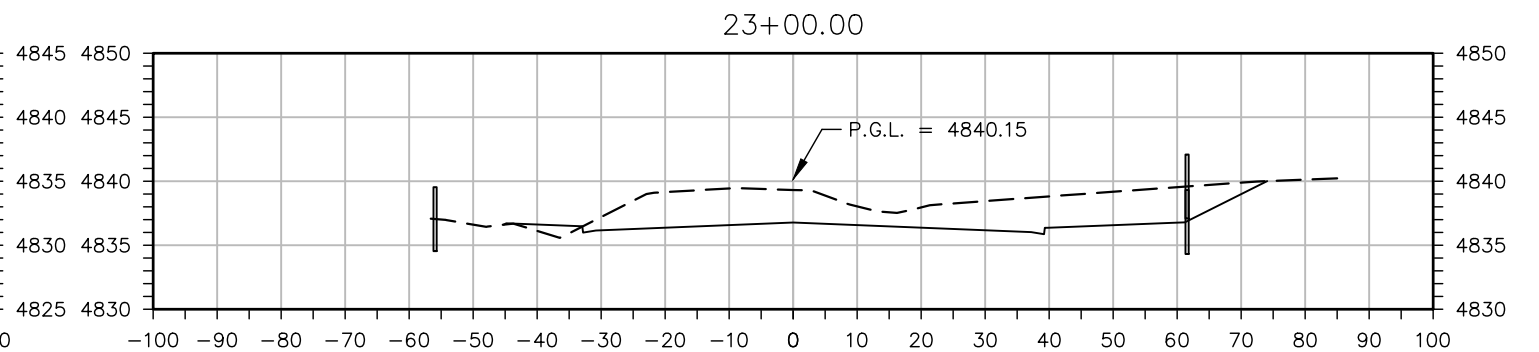
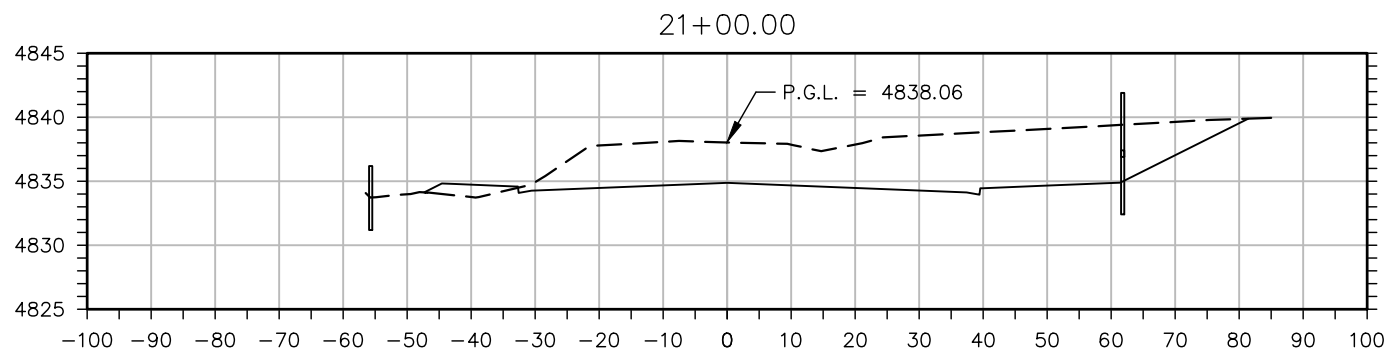
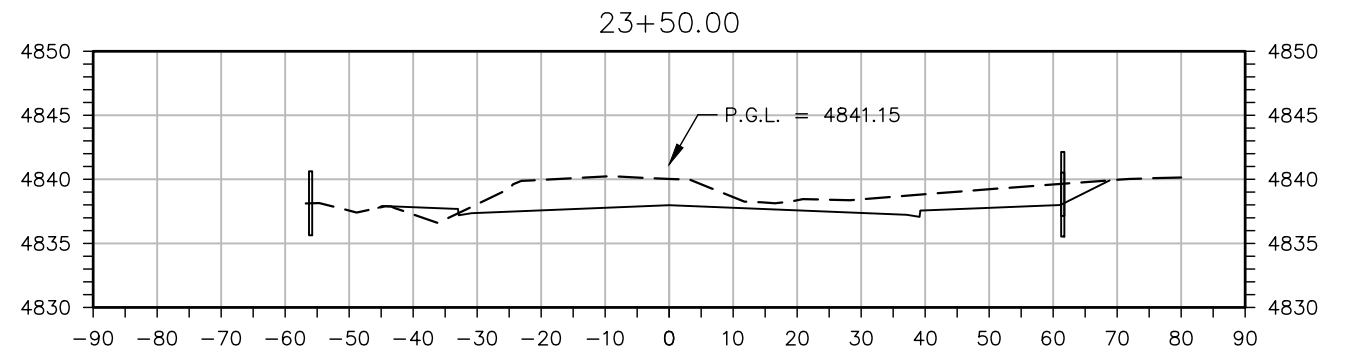
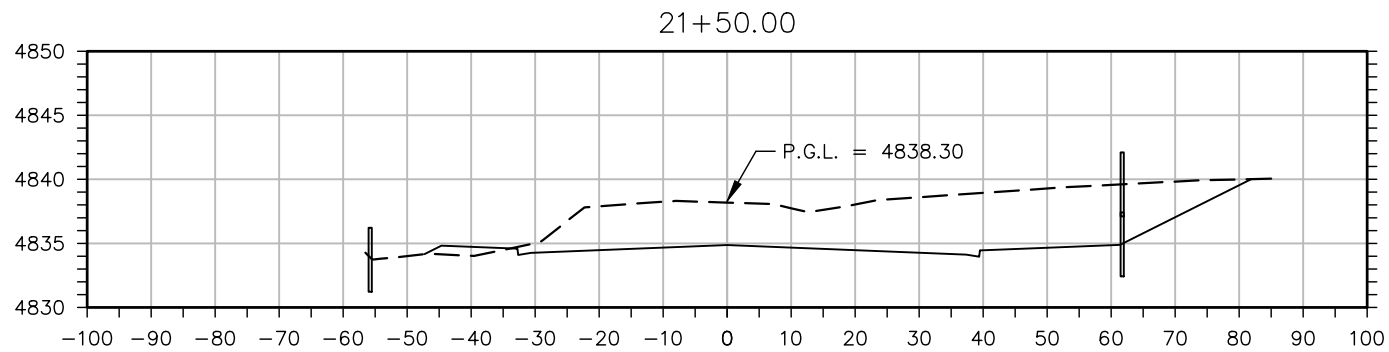
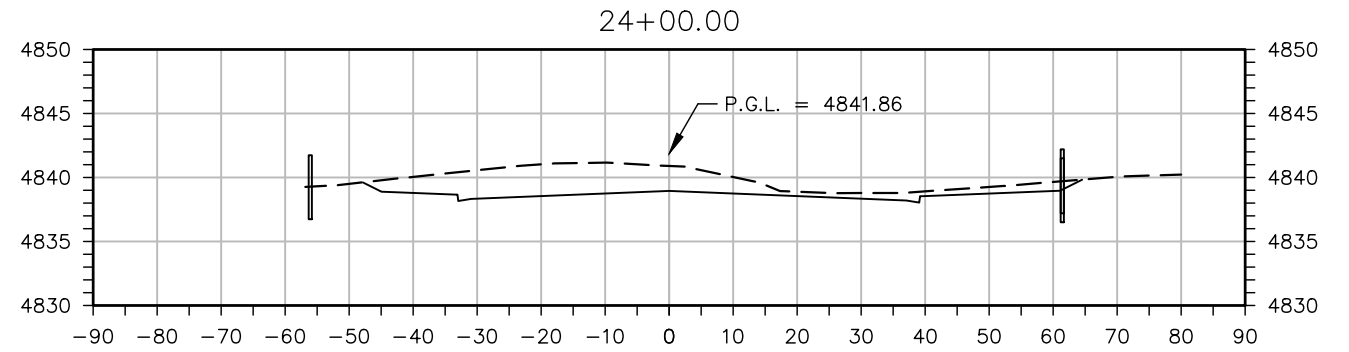
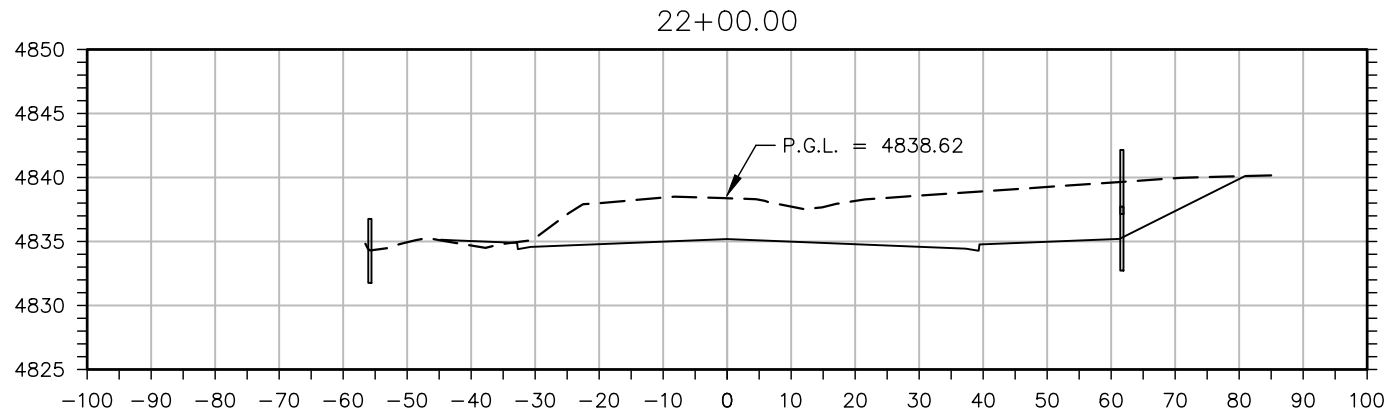
Designer:	T. Tuttle	Structure Numbers	
Detailer:	S. Hemler		
Sheet Subset:	X SECTIONS	Subset Sheets:	5 of 11

**Project No.**  
 STU M415-025  
 Drawing Number XS-005  
 Sheet Number 204

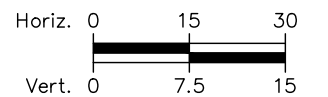
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**37TH ST & 65TH AVE INTERSECTION  
 CROSS SECTIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: X SECTIONS

**Project No.**  
 STU M415-025  
 Drawing Number XS-006  
 Sheet Number 205

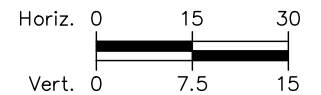
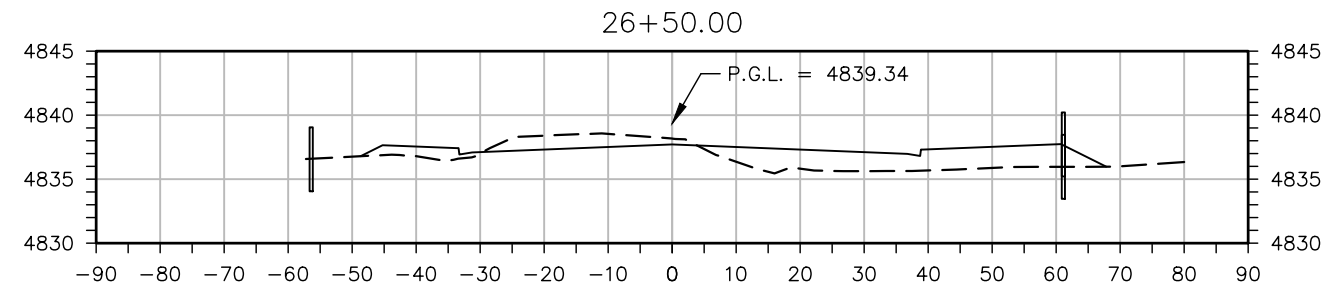
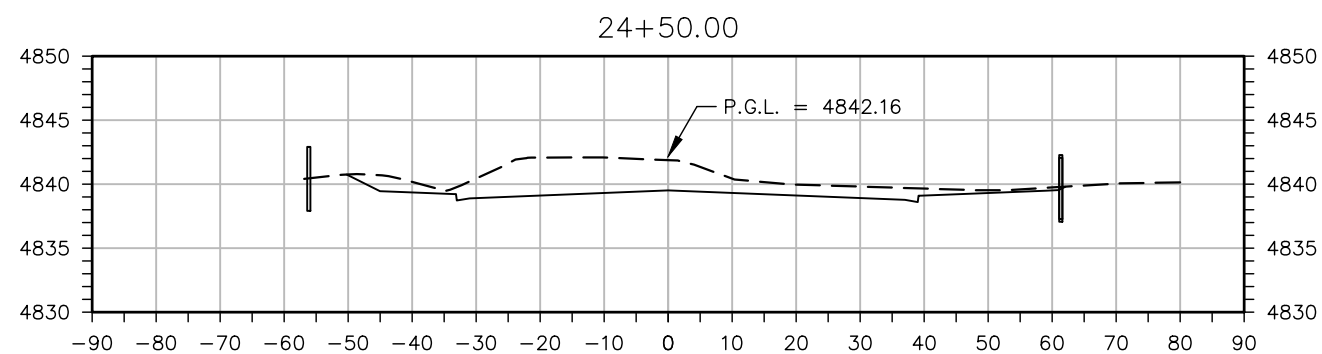
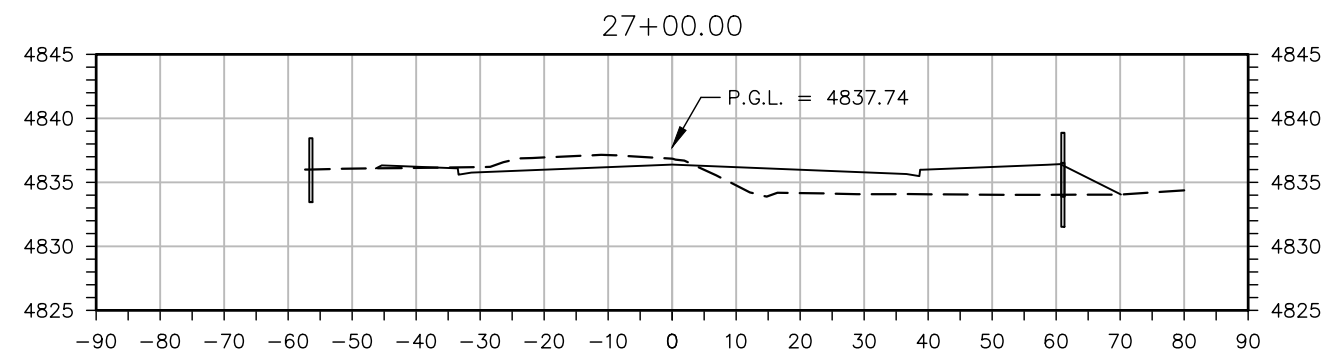
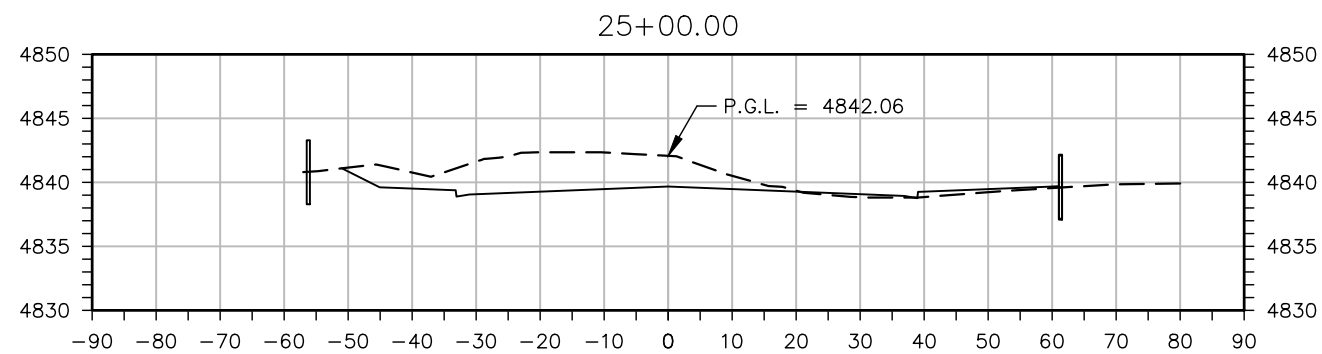
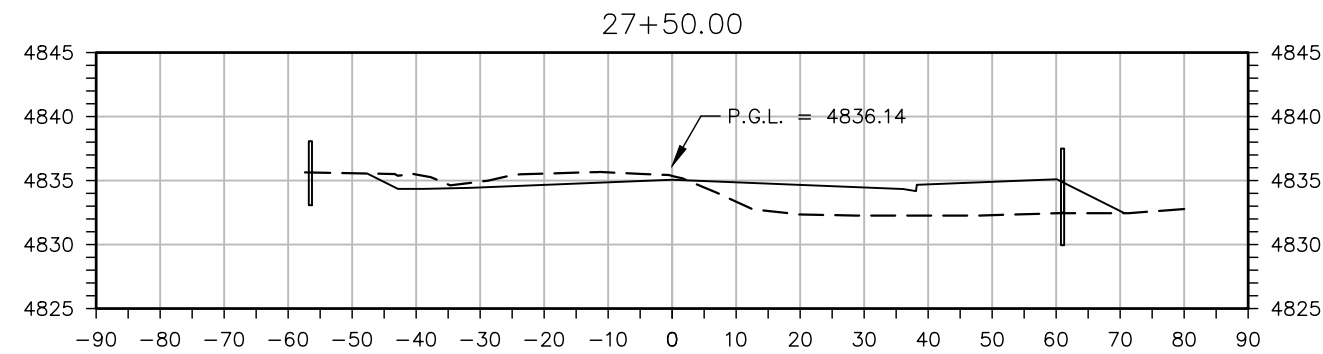
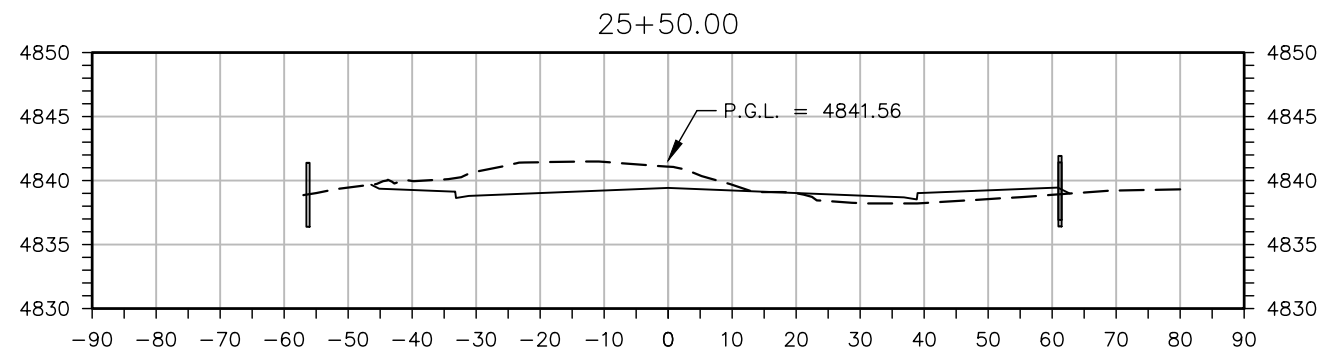
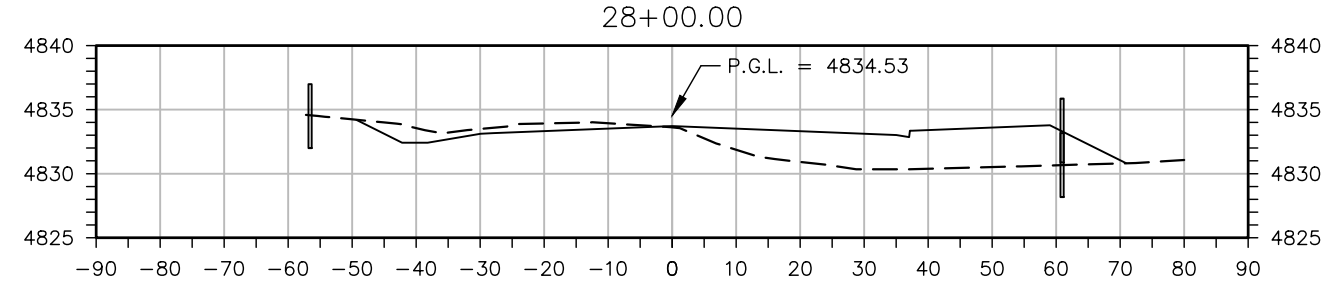
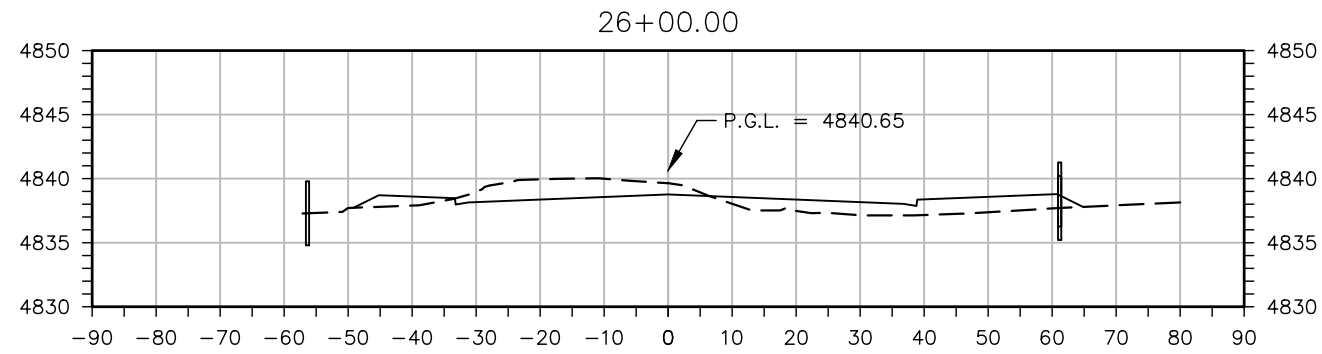
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Sheet Revisions		
Date	Comments	Initials



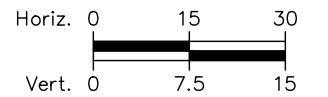
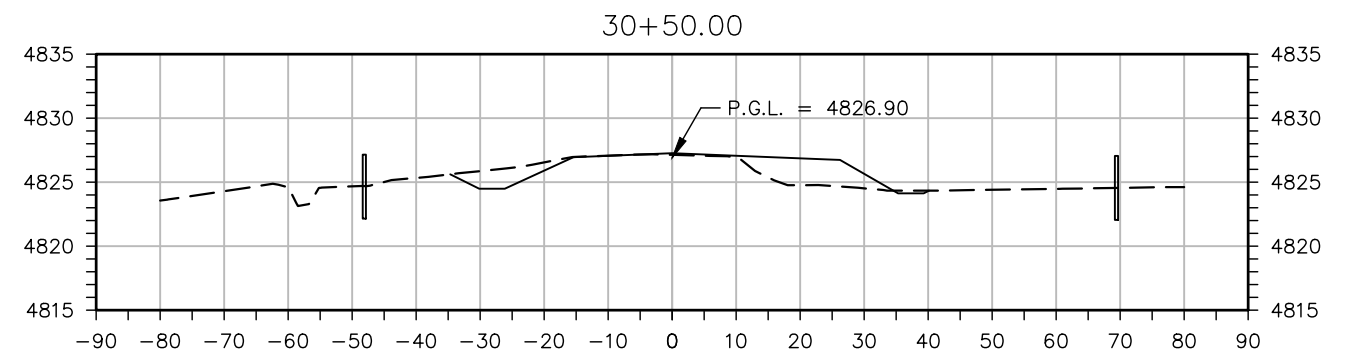
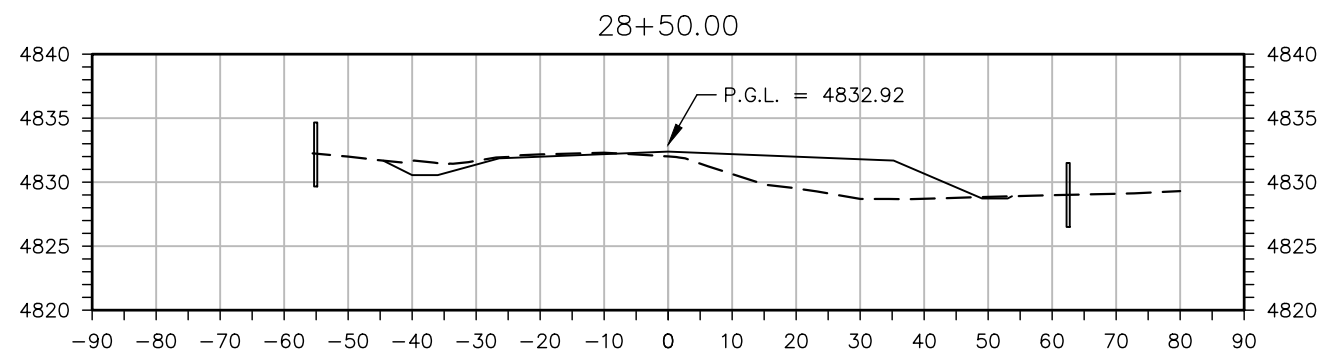
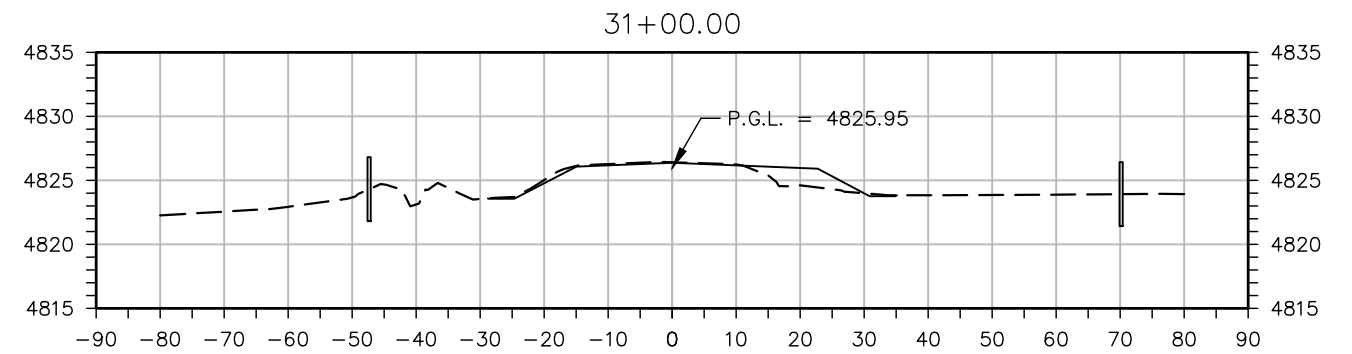
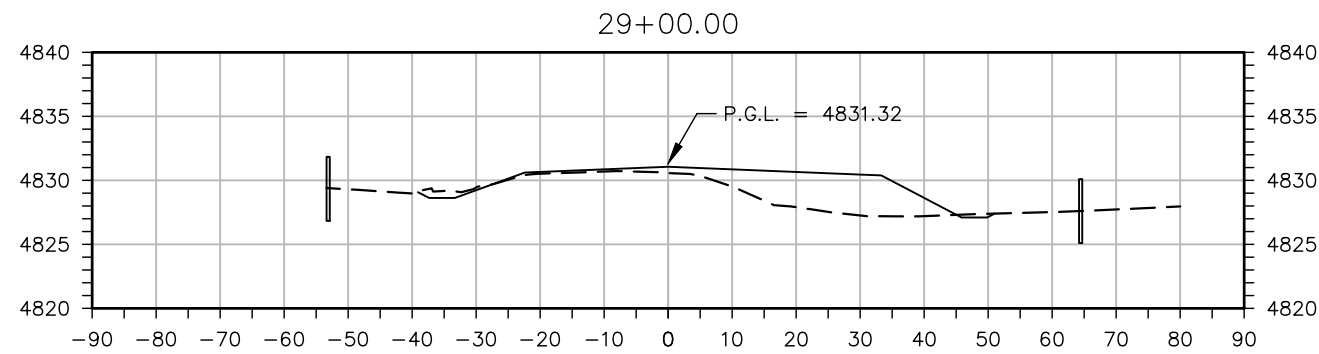
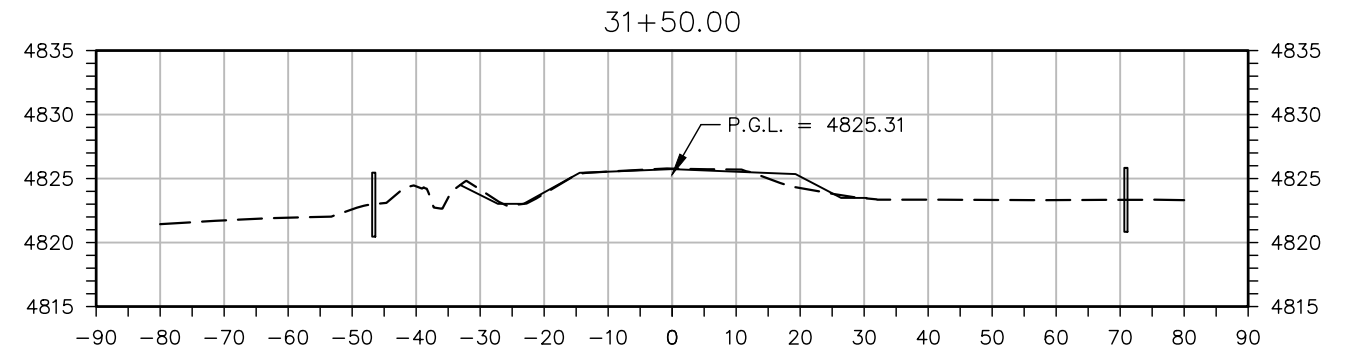
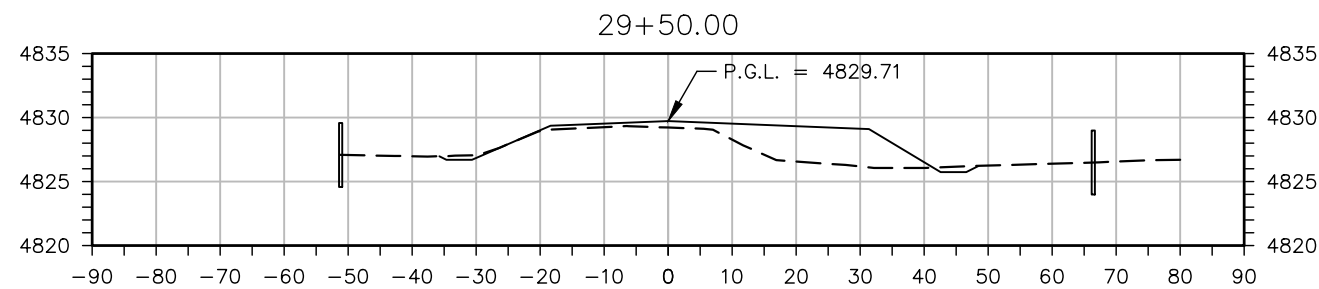
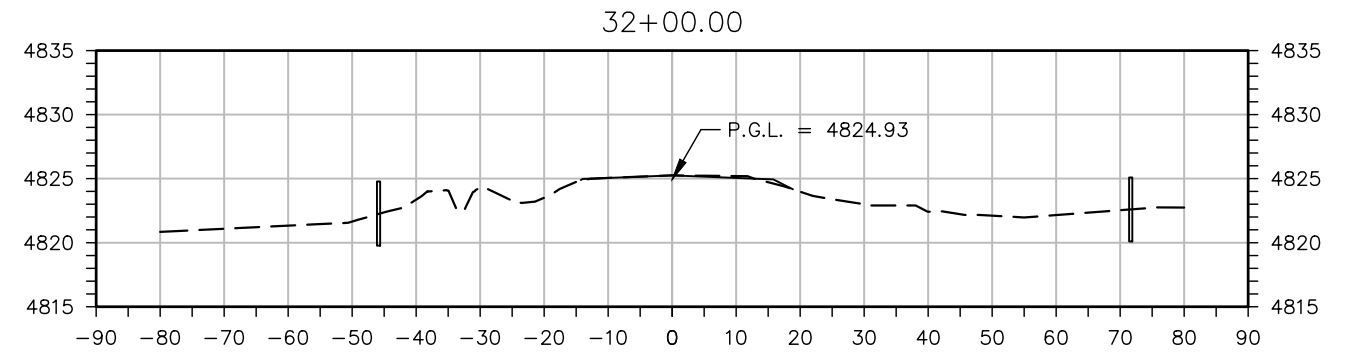
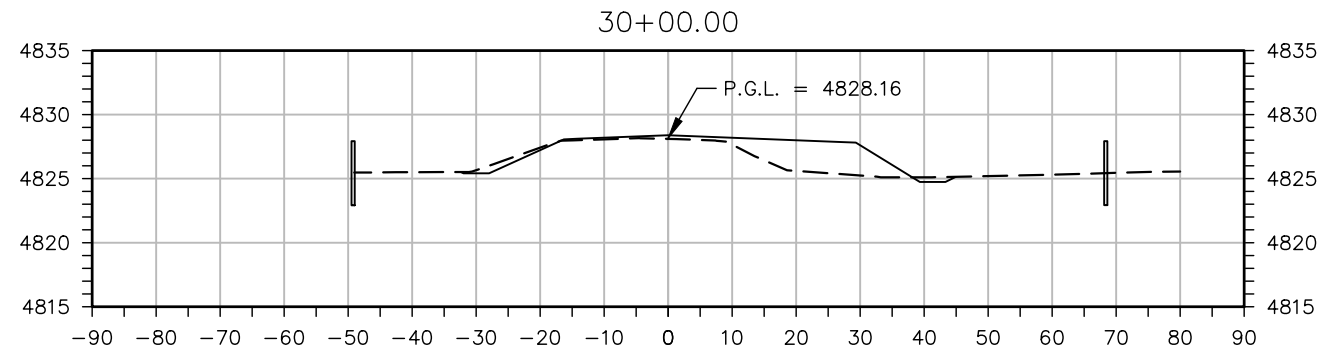
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No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION CROSS SECTIONS</b>	
Designer: T. Tuttle	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 7 of 11

<b>Project No.</b>
STU M415-025
Drawing Number XS-007
Sheet Number 206

90% DRAFT PLANS

Sta. 32+26.00 End Project 37th St.



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 Horiz. Scales Noted Vert. Scales Noted  
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Sheet Revisions		
Date	Comments	Initials



**As Constructed**  
 No Revisions:  
 Revised:  
 Void:

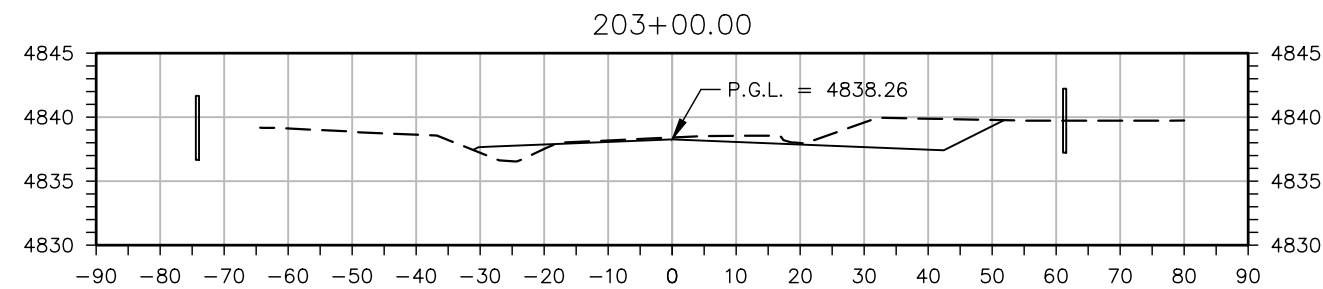
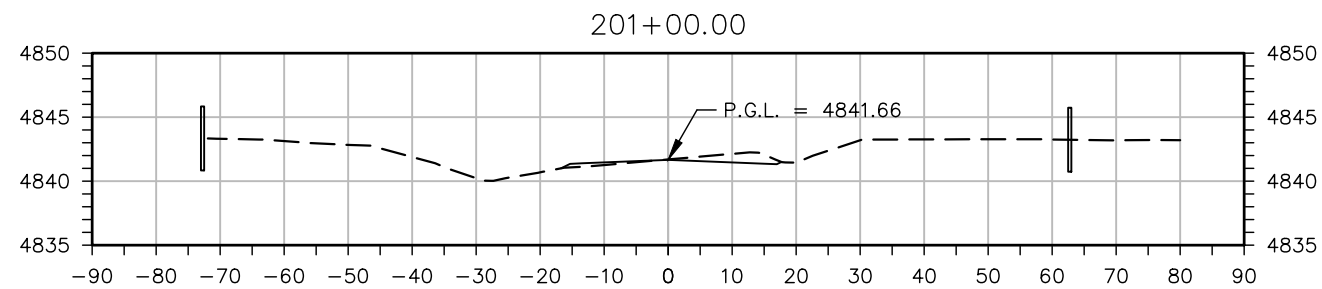
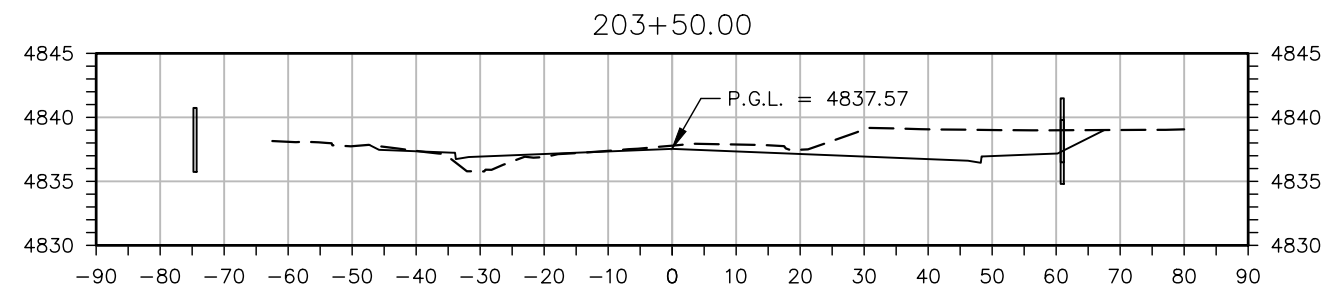
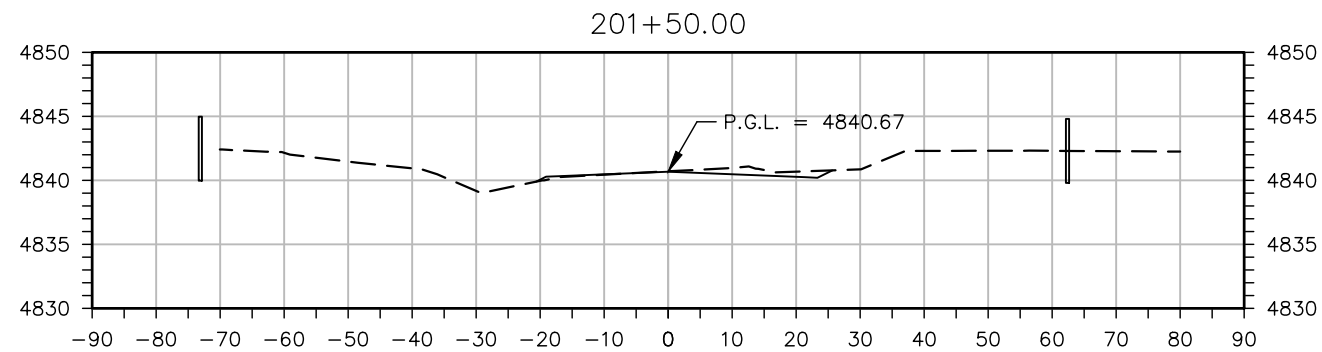
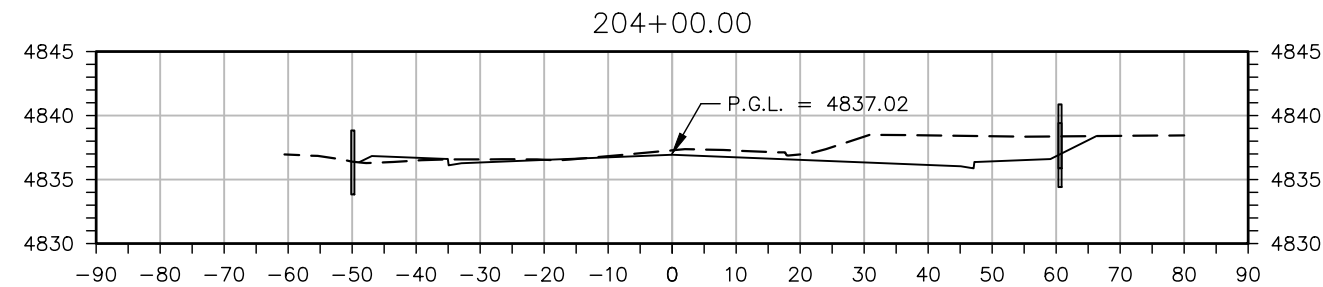
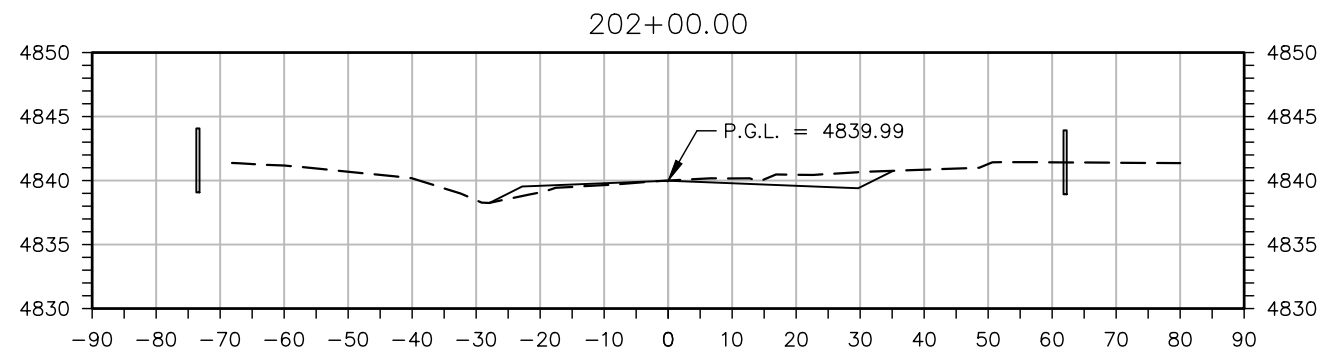
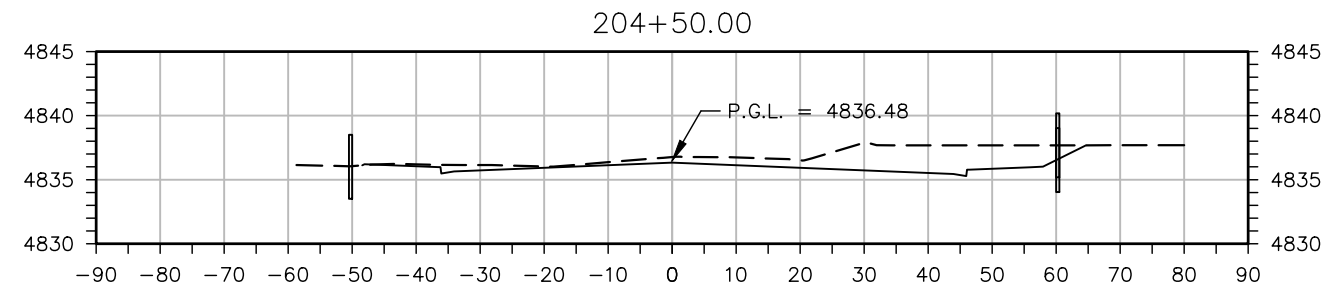
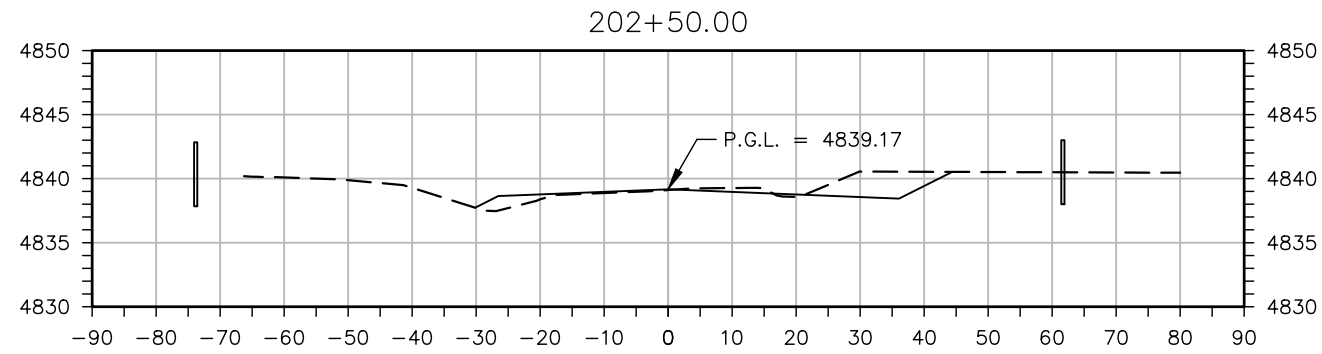
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 CROSS SECTIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: X SECTIONS

**Project No.**  
 STU M415-025  
 Drawing Number XS-008  
 Sheet Number 207

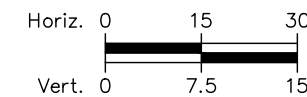
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Sta. 200+70.00 Begin Project 65th Ave.



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Sheet Revisions		
Date	Comments	Initials



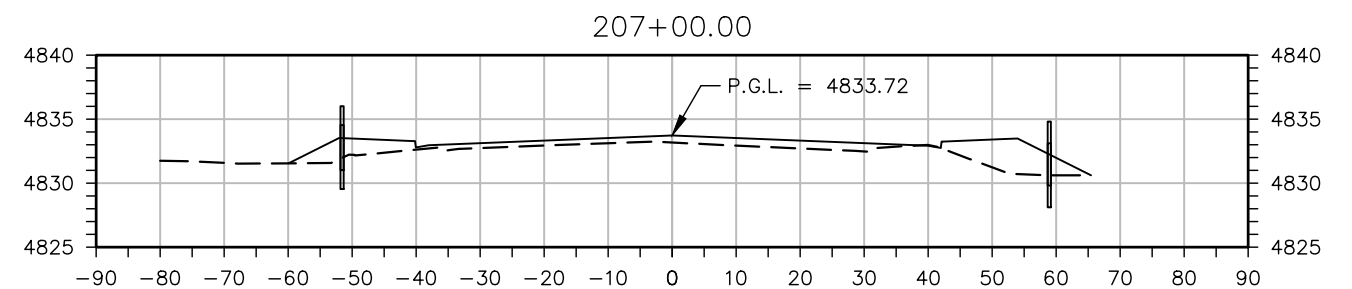
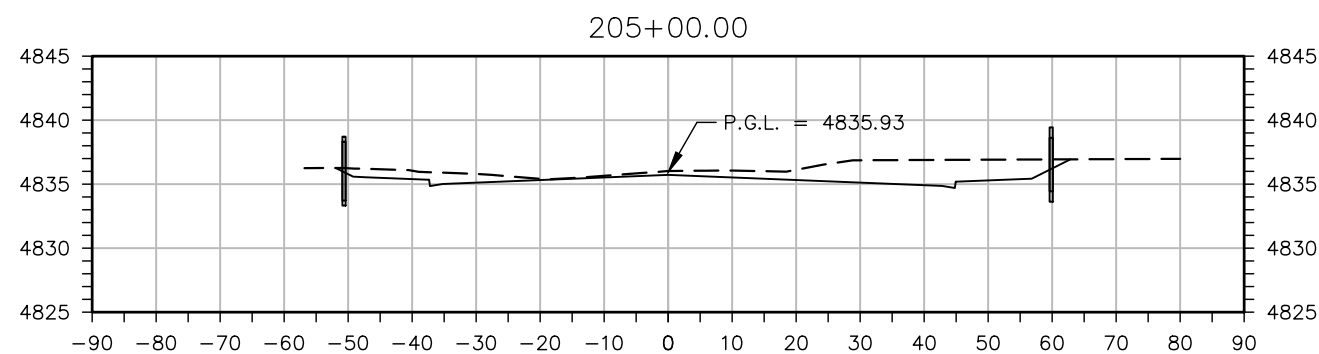
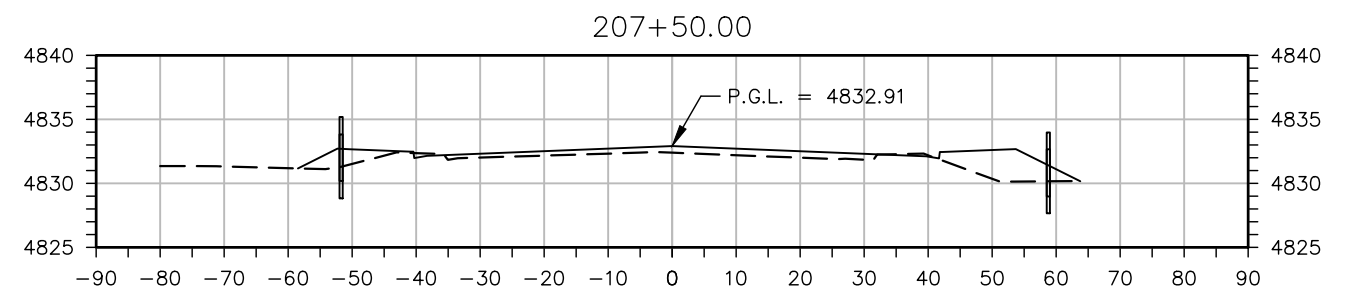
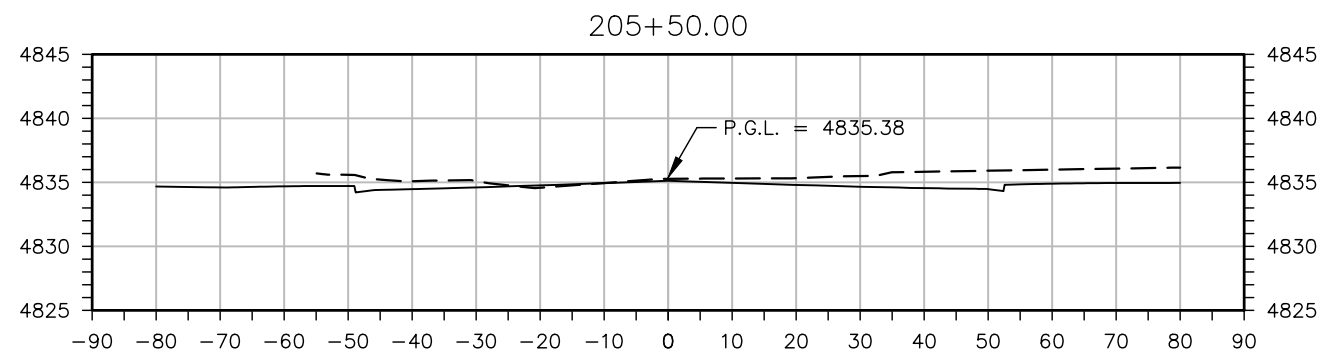
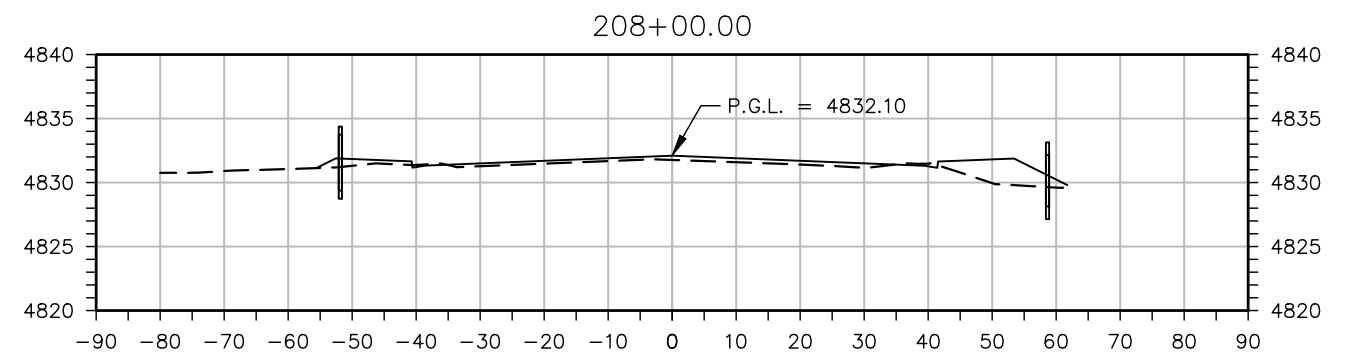
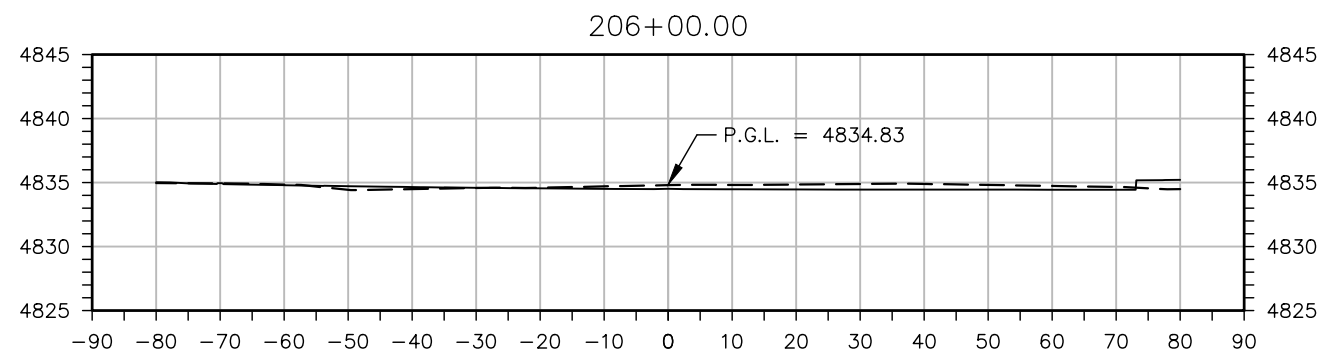
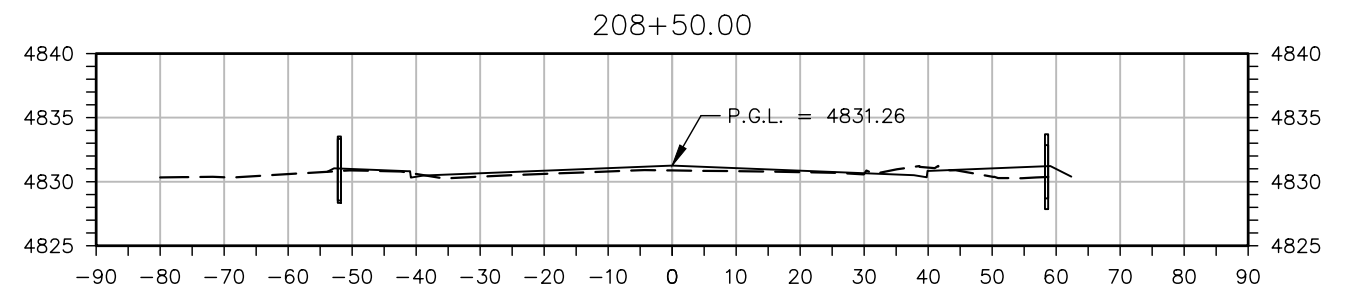
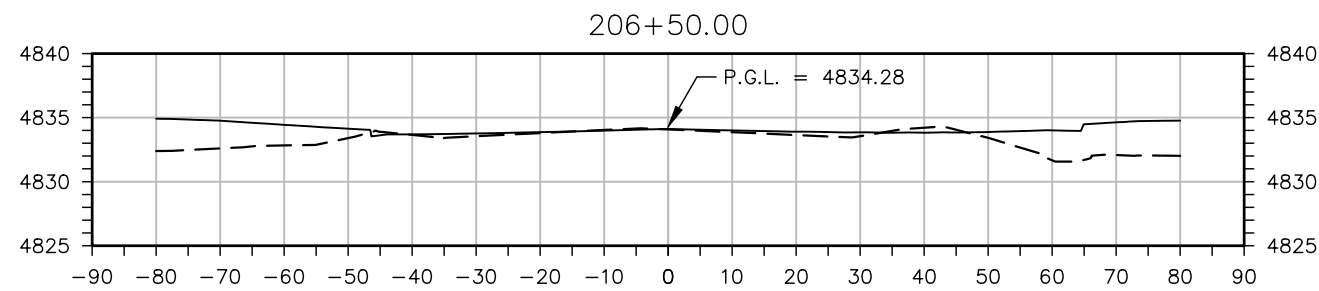
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No Revisions:
Revised:
Void:

<b>37TH ST &amp; 65TH AVE INTERSECTION CROSS SECTIONS</b>		
Designer: T. Tuttle	Structure Numbers	Sheet Subset: X SECTIONS Subset Sheets: 9 of 11
Detailer: S. Hemler		

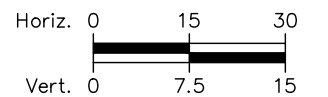
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STU M415-025
Drawing Number XS-009
Sheet Number 208

90% DRAFT PLANS

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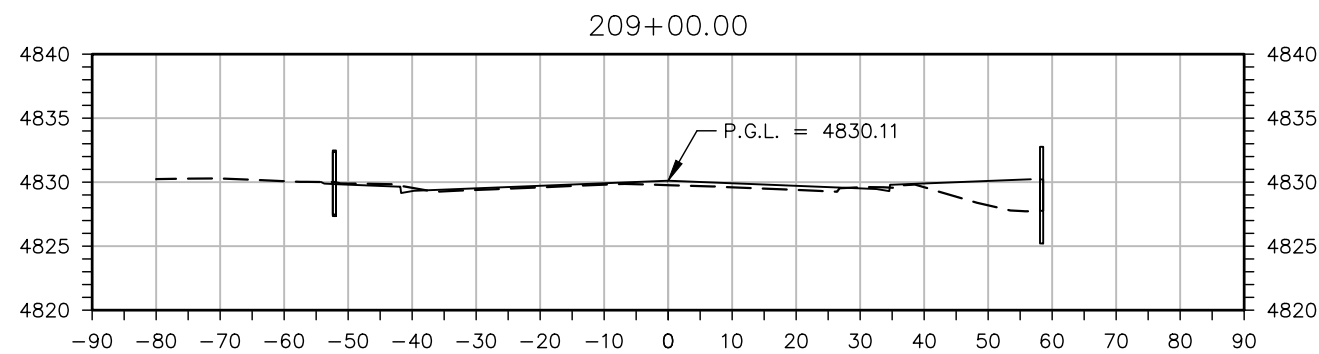
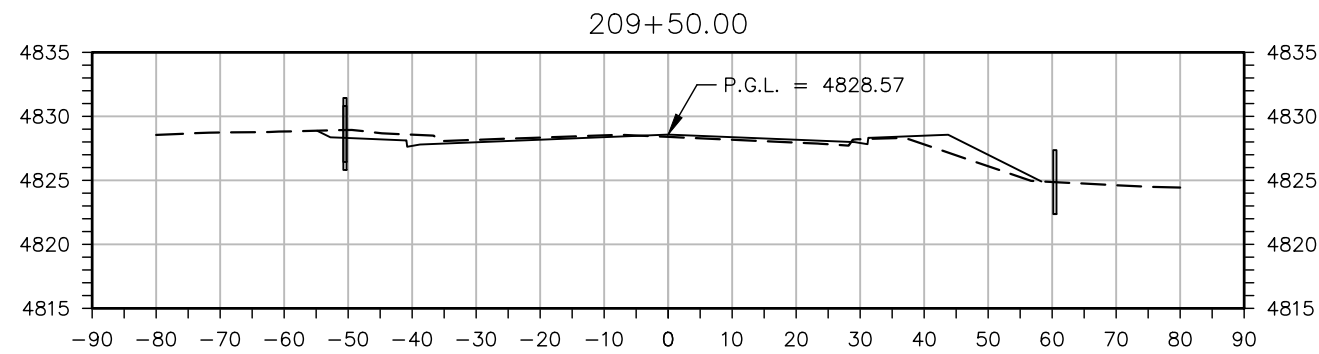
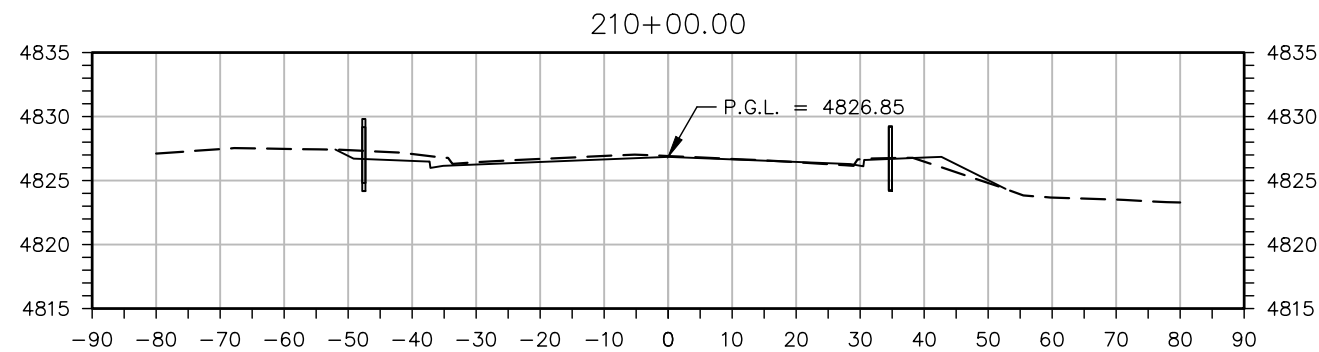
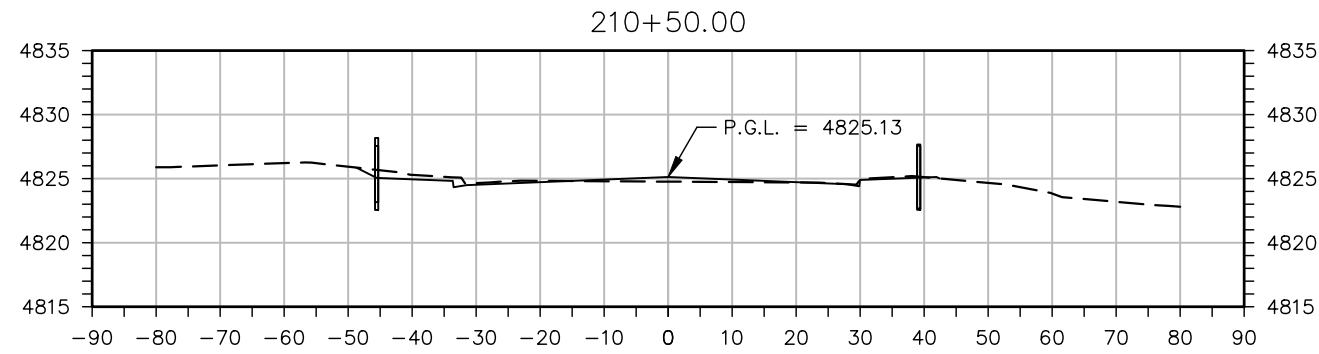
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 No Revisions:  
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**37TH ST & 65TH AVE INTERSECTION CROSS SECTIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: X SECTIONS

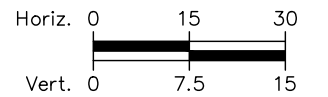
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 Drawing Number XS-010  
 Sheet Number 209

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Date	Comments	Initials



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 Void:

**37TH ST & 65TH AVE INTERSECTION CROSS SECTIONS**  
 Designer: T. Tuttle  
 Detailer: S. Hemler  
 Sheet Subset: X SECTIONS  
 Structure Numbers  
 Subset Sheets: 11 of 11

**Project No.**  
 STU M415-025  
 Drawing Number XS-011  
 Sheet Number 210

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