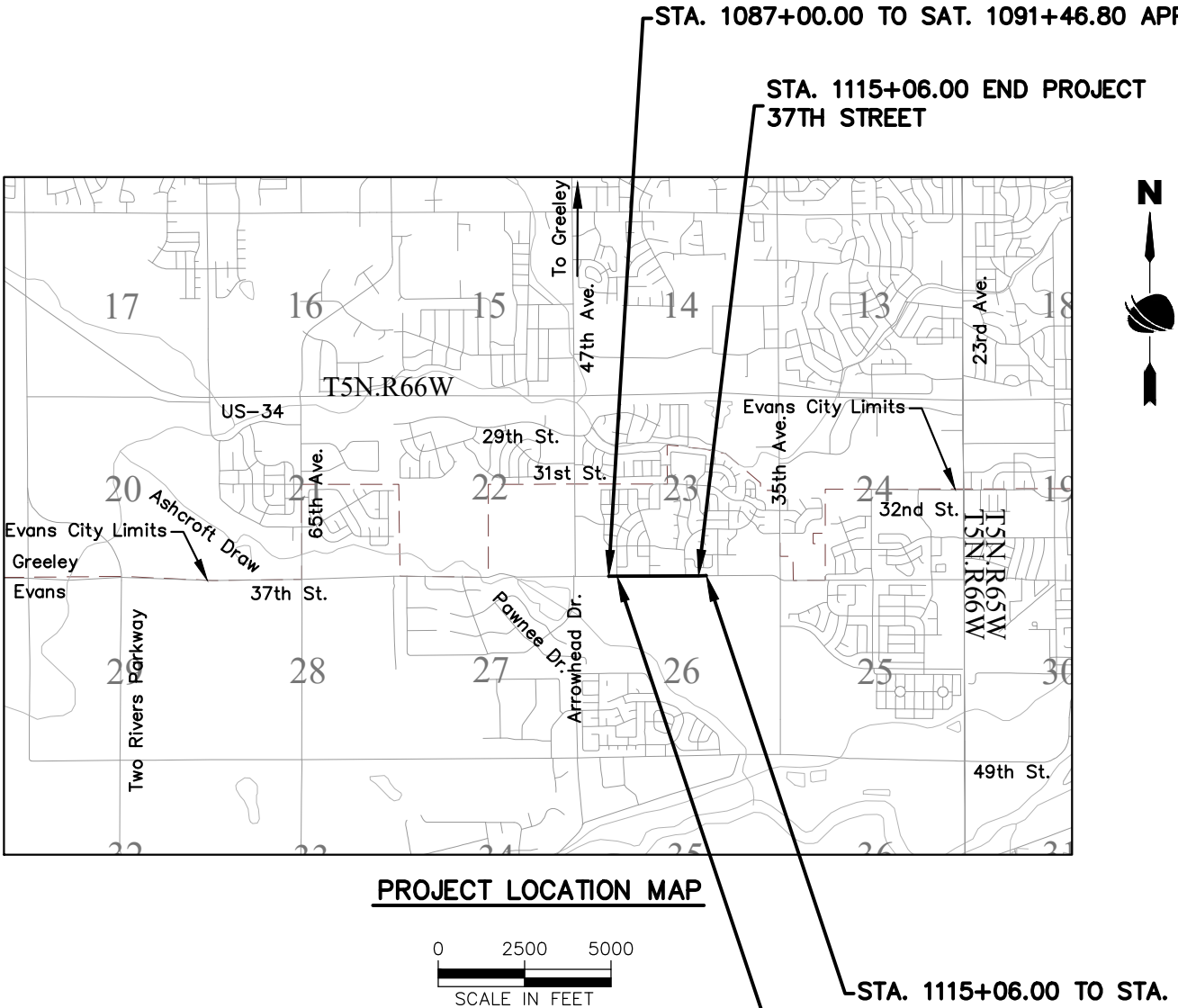


Plot Date: 2/19/2024 4:25 PM Plotted By: Sarah Hemler  
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CITY OF EVANS, COLORADO  
CONSTRUCTION BID PLANS OF PROPOSED  
37TH STREET WIDENING PHASE 2A  
WELD COUNTY



TABULATION OF LENGTH & DESIGN DATA	
STATION	LINEAR FEET
	ROADWAY
APPROACH TO PROJECT =	
STA. 1087+00.00 TO STA. 1091+46.80	447
BEGIN PROJECT 37TH STREET =	
STA. 1091+46.80	
	2,359
END PROJECT 37TH STREET =	
STA. 1115+06.00	
APPROACH TO PROJECT =	
STA. 1115+06.00 TO STA. 1120+36.00	530
TOTAL	3,336
SUMMARY OF PROJECT LENGTH	FEET
PROJECT GROSS LENGTH	3,336

DESIGN DATA	37TH STREET (40 MPH)
MAXIMUM RADIUS OF CURVE	6000
MAXIMUM GRADE	2.29%
MINIMUM S.S.D. HORIZONTAL	550 FT.
MINIMUM S.S.D. VERTICAL	305 FT.
MAXIMUM DESIGN SPEED	40 MPH
2040 DESIGN TRAFFIC	ADT 14,000
DHV TRUCK %	2%
CLEAR ZONE DISTANCE (TANGENT)	26-32 FT.

PROJECT LIST OF CONTACTS		
City of Evans	Mark Oberschmidt	970-475-1110
Utilities	See Utility Plans	

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST
3	SURVEY CONTROL DIAGRAM
4	SURVEY CONTROL TABULATION
5-8	TYPICAL SECTIONS
9-11	GENERAL NOTES
12-14	SUMMARY OF APPROXIMATE QUANTITIES
15-18	TABULATION SHEETS
19-30	DETAIL SHEETS
31-35	ROADWAY PLANS
36-38	ROADWAY PROFILES
39-46	ROAD APPROACHES
47-52	STORM SEWER PLAN AND PROFILE
53	IRRIGATION PLAN AND PROFILE
54	WATERLINE TABULATION AND NOTES
55-56	UTILITY GENERAL NOTES
57-61	UTILITY PLANS
62-82	STORM WATER MANAGEMENT PLAN
83-117	LANDSCAPING PLANS
118-121	CONSTRUCTION PHASING
122-123	SIGNING AND PAVEMENT MARKING TABULATION
124-129	SIGNING AND PAVEMENT MARKING PLANS
200-207	CROSS SECTIONS



Print Date: 2/19/2024	
File Name: GN P2A-001 TITLE SHEET.DWG	
Horiz. Scale: As Noted	Vert. Scale: N/A
	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

	As Constructed	37TH STREET WIDENING PHASE 2A TITLE SHEET		Project No.
	No Revisions:			37TH STREET 2A
	Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number GN-001
	Void:	Detailer: S. Hemler	Sheet Subset: GENERAL	Subset Sheets: 1 of 2
		Sheet Number 1		

Plot Date: 2/5/2024 8:18 AM Plotted By: Sarah Hemler  
P:\Q-PROJECTS\VTM PROJECTS\33001 LEVANS 37TH ST AND 47TH AVE PLAN\202 COMPUTER DESIGN FILES\2P - PHASE 2A\002 STANDARD PLANS LIST.DWG

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
■ M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3
■ M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7
□ M-203-1	APPROACH ROADS	8
□ M-203-2	DITCH TYPES	9
□ M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
□ M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14
■ M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16
□ M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18
■ M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-29
■ M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31
□ M-214-1	NURSERY STOCK DETAILS	32
□ M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34
□ M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS)	<del>35-39</del>
□ M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS)	<del>(REVISED ON JANUARY 31, 2022)</del>
□ M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40
□ M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	41-42
□ M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	43-44
□ M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	45-46
□ M-601-10	HEADWALL FOR PIPES	47
□ M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48
□ M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49
□ M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51
□ M-603-1	METAL PIPE (4 SHEETS)	52-55
■ M-603-2	REINFORCED CONCRETE PIPE	56
□ M-603-3	PRECAST CONCRETE BOX CULVERT	<del>57</del>
□ M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets)	<del>58</del>
■ M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	59
□ M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60
□ M-603-10	CONCRETE AND METAL END SECTIONS	61
□ M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS)	62-64
□ M-604-10	INLET, TYPE C	65
□ M-604-11	INLET, TYPE D	66
■ M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68
□ M-604-13	CONCRETE INLET TYPE 13	69
■ M-604-20	MANHOLES (3 SHEETS)	70-72
□ M-604-25	VANE GRATE INLET (5 SHEETS)	73-77
□ M-605-1	SUBSURFACE DRAINS	78

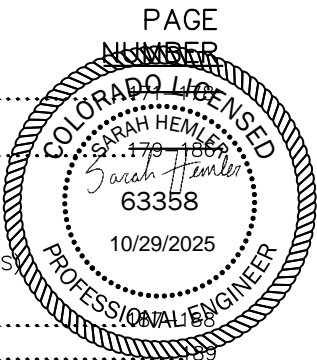
PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
□ M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS)	<del>79-97</del>
□ M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101
□ M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS)	<del>102-104</del>
□ M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS)	<del>105-115</del>
□ M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118
□ M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121
□ M-607-3	BARRIER FENCE	122
□ M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS)	<del>123-127</del>
□ M-607-10	PICKET SNOW FENCE	128
□ M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137
■ M-608-1	CURB RAMPS (10 SHEETS)	138-147
■ M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151
□ M-611-1	CATTLE GUARD (2 SHEETS)	152-153
□ M-611-2	DEER GUARD (2 SHEETS)	154-155
□ M-614-1	RUMBLE STRIPS (3 SHEETS)	156-158
□ M-614-2	SAND BARREL ARRAYS (2 SHEETS)	159-160
□ M-615-1	EMBANKMENT PROTECTOR TYPE 3	161
□ M-615-2	EMBANKMENT PROTECTOR TYPE 5	162
□ M-616-1	INVERTED SIPHON	163
□ M-620-1	FIELD LABORATORY CLASS 1	164
□ M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166
□ M-620-11	FIELD OFFICE CLASS 1	167
□ M-620-12	FIELD OFFICE CLASS 2	168
■ M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170

COLORADO  
DEPARTMENT OF TRANSPORTATION  
M&S STANDARDS PLANS LIST  
July 31, 2019  
Revised on November 7, 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.

PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
□ S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)	<del>179-186</del>
□ S-613-1	ROADWAY LIGHTING (6 SHEETS)	<del>(REVISED ON SEPTEMBER 30, 2020)</del>
□ S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS)	<del>(NEW, ISSUED ON SEPTEMBER 30, 2020)</del>
□ S-613-4	TRAFFIC SIGNAL ONE-LINE DIAGRAMS (6 SHEETS)	<del>(NEW, ISSUED ON JUNE 15, 2023)</del>
■ S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	188
■ S-614-2	CLASS I SIGNS	189
□ S-614-3	CLASS II SIGNS	190
□ S-614-4	CLASS III SIGNS (3 SHEETS)	191-193
□ S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	194-195
□ S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	196-197
□ S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS)	198-204
<del>□ S-614-9</del>	<del>PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS)</del>	<del>205-206</del>
□ S-614-10	MARKER ASSEMBLY INSTALLATIONS	207
□ S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	208
□ S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	209-210
□ S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS)	211-214
□ S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS	215
□ S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS)	216-217
□ S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
□ S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)	219-223
□ S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS)	224-227
□ S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)	228-240
□ S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)	241-244
□ S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS)	245-252
□ S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)	253-254
□ S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS)	255-266
□ S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)	267-280
□ S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)	281-289
■ S-627-1	PAVEMENT MARKINGS (11 SHEETS)	<del>(REVISED ON APRIL 14, 2023)</del>
□ S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (26 SHEETS)	<del>290-313</del>
■ S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS	314
□ S-630-3	FLASHING BEACON (PORTABLE) DETAILS	315
□ S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	316-317
□ S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)	318-319
□ S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)	320
□ S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	321-323



Print Date: 2/5/2024

File Name: GN P2A-002 STANDARD PLANS LIST.DWG

Horiz. Scale: N/A      Vert. Scale: N/A

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

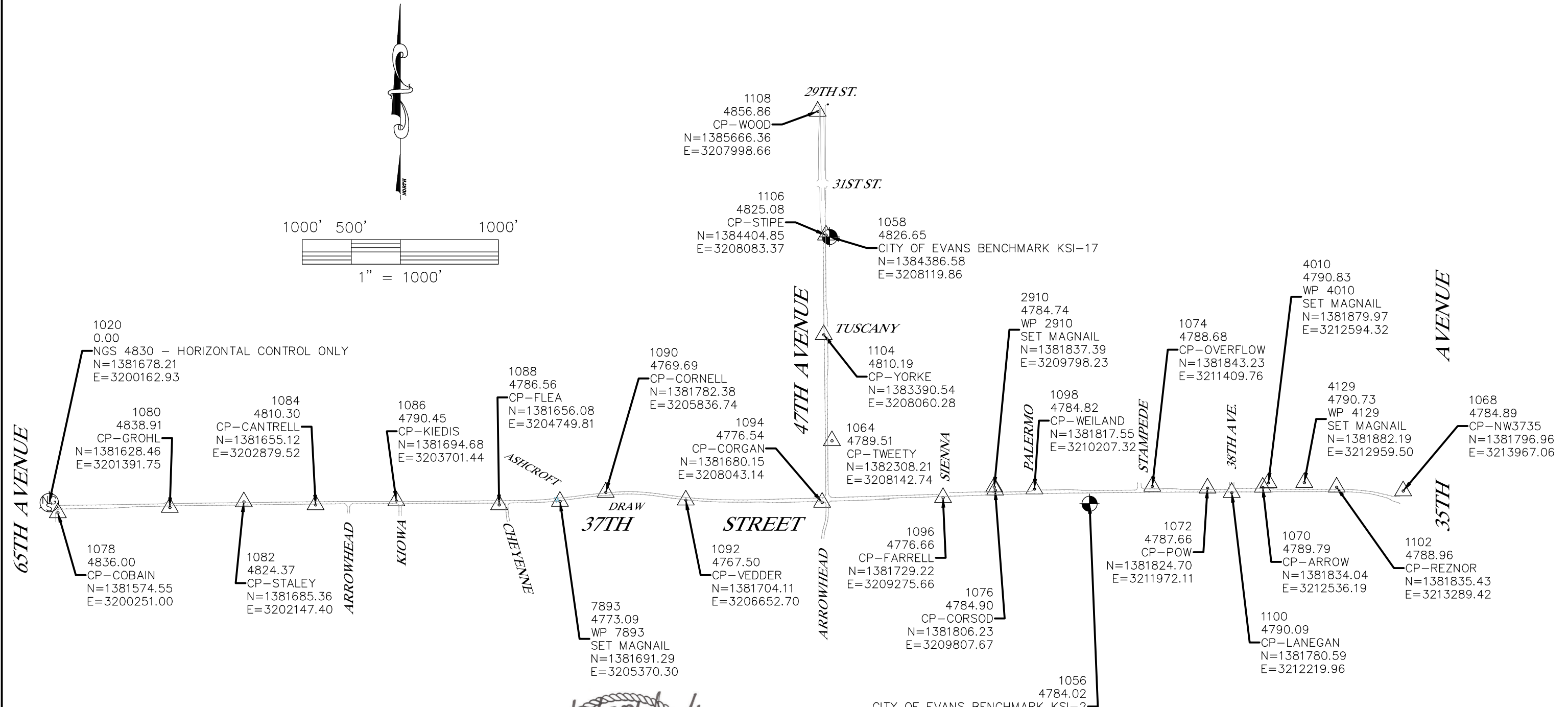
	Sheet Revisions		
	Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A STANDARD PLANS LIST			Project No.
No Revisions:				37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure		Drawing Number GN-002
	Detailer: S. Hemler	Numbers		
Void:	Sheet Subset: GENERAL	Subset Sheets: 2 of 2		Sheet Number 2



Plot Date: 2/5/2024 8:19 AM Plotted By: Sarah Hemler  
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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).



Print Date: 2/5/2024		Sheet Revisions					As Constructed		37TH STREET WIDENING PHASE 2A SURVEY CONTROL DIAGRAM		Project No. 37TH STREET 2A	
File Name: SC P2A-001 SURVEY CONTROL SHEET.DWG												
Horiz. Scale: As Noted      Vert. Scale: N/A		<div><div></div><div></div><div></div><div></div></div>					No Revisions:		Designer: AD      Structure		Drawing Number SC-001	
 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350					Revised:		Detailer: MCD      Numbers					
					Void:		Sheet Subset: SURVCON      Subset Sheets: 1 of 1		Sheet Number 3			

FOR CONSTRUCTION 2/24/2024

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, ie., 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

<input checked="" type="checkbox"/> Landscaping	<input checked="" type="checkbox"/> Major Reconstruction
<input type="checkbox"/> Signalization	<input type="checkbox"/> New Roadway Construction
<input type="checkbox"/> Safety Improvement	<input type="checkbox"/> Bridge Replacement
<input type="checkbox"/> Asphalt Overlay	<input type="checkbox"/> Bridge Widening
<input type="checkbox"/> Concrete Overlay	<input type="checkbox"/> New Bridge
<input checked="" type="checkbox"/> Minor Widening	<input type="checkbox"/> 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)

☒ 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 304)  
☒ Reconditioning  
☐ PMBB - Plant Mix Bituminous Base  
☐ Other: \_\_\_\_\_

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

Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

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

☒ 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: \_\_\_\_\_

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

Stationing	Left Interval	Center Interval	Right Interval
	-	-	-

☐ 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  
☒ 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:

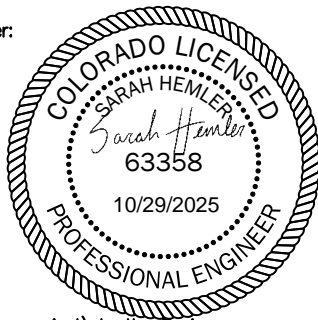
☒ Monumentation (Section 629)  
☐ Control  
☐ Right of Way  
☐ Land corners, Aliquot corners  
☒ Easements  
☐ Reference the specified existing monuments: \*\* \_\_\_\_\_  
☐ Replace the specified existing monuments: \*\* \_\_\_\_\_  
☐ Locate monuments. It is estimated \_\_\_\_\_ hours are required.

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 feet 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 survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the 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



Print Date: 2/5/2024

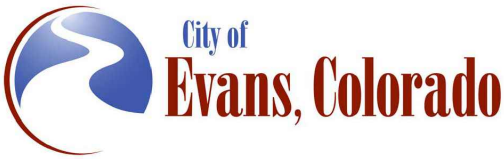
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Horiz. Scale: N/A

Vert. Scale: N/A

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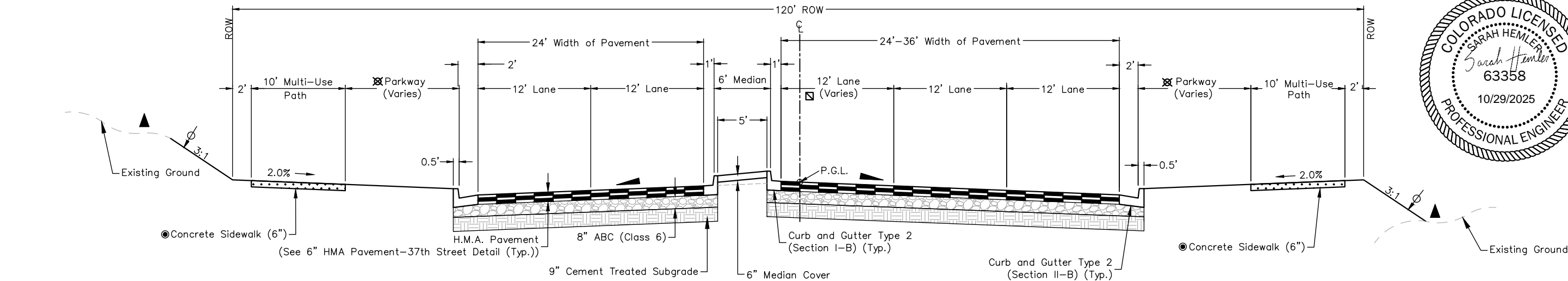
Sheet Revisions		
Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A SURVEY CONTROL TABULATION			Project No.
No Revisions:				37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers		Drawing Number SCT-001
Void:	Detailer: S. Hemler	Sheet Subset: SURVCON TAB	Subset Sheets: 1 of 1	Sheet Number 4







**TYPICAL SECTION ROADWAY 37TH STREET**

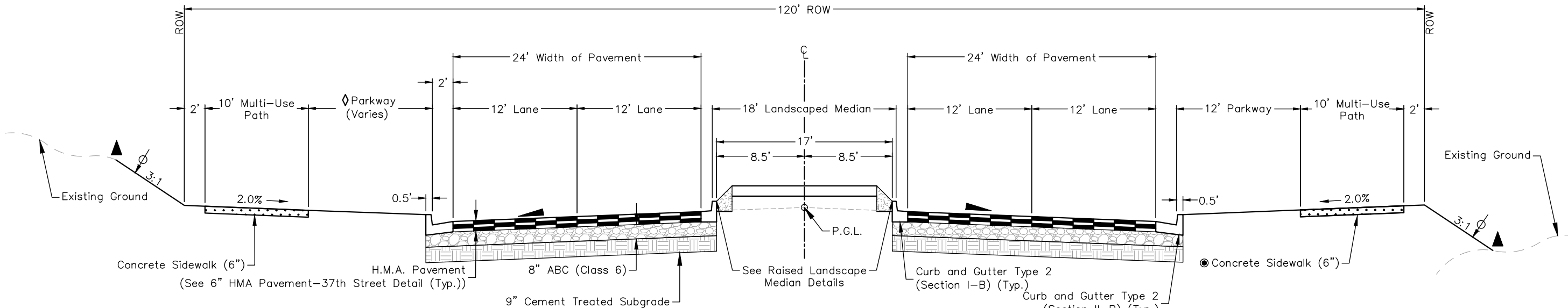
Sta. 1096+49.00 to 1100+71.00  
Sta. 1107+11.00 to 1111+30.00

Sta. 1096+49 to Sta. 1097+93 Rt.: 0'-12'  
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Sta. 1107+11 to Sta. 1108+55 Rt.: 0'-12'  
Sta. 1108+55 to Sta. 1111+30 Rt.: 12'

Sta. 1096+49 to Sta. 1099+77 Rt.: 12'  
Sta. 1099+77 to Sta. 1100+27 Rt.: 12' - 0'  
Sta. 1100+27 to Sta. 1100+71 Rt.: 0'  
Sta. 1107+11 to Sta. 1111+30 Rt.: 12'

Sta. 1096+49 to Sta. 1099+84 Lt.: 12'  
Sta. 1099+84 to Sta. 1099+98 Lt.: 12' - 8.5'  
Sta. 1099+98 to Sta. 1100+05 Lt.: 8.5'  
Sta. 1105+05 to Sta. 1100+19 Lt.: 8.5' - 12'  
Sta. 1100+19 to Sta. 1100+71 Lt.: 12'

- ~ 2%
- ~ 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.
- ~ Concrete sidewalk depth to be 8" for all driveways from edge of approach to edge of approach



**TYPICAL SECTION ROADWAY 37TH STREET**

Sta. 1096+34.00 to 1096+49.00  
Sta. 1105+81.00 to 1107+11.00

Sta. 1096+34 to Sta. 1096+49 Lt.: 12'  
Sta. 1105+81 to Sta. 1105+99 Lt.: 12'  
Sta. 1105+99 to Sta. 1106+25 Lt.: 12' - 5'  
Sta. 1106+25 to Sta. 1106+40 Lt.: 5'  
Sta. 1106+40 to Sta. 1106+66 Lt.: 5' - 12'  
Sta. 1106+66 to Sta. 1107+11 Lt.: 12'

Print Date: 2/12/2024

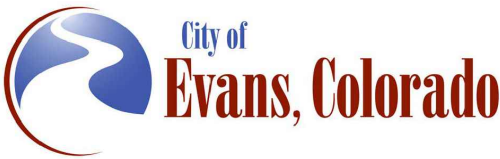
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Horiz. Scale: NTS Vert. Scale: NTS

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

**Sheet Revisions**

Date:	Comments	Init.



**As Constructed**

No Revisions:

Revised:

Void:

**37TH STREET WIDENING PHASE 2A  
TYPICAL SECTIONS**

Designer: T. Tuttle  
Detailer: S. Hemler  
Sheet Subset: TYPICALS  
Structure Numbers: 2 of 4

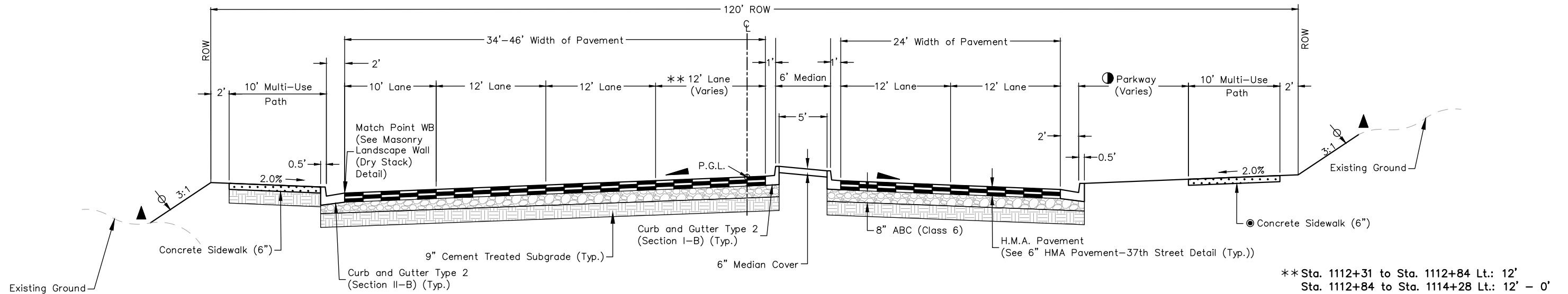
**Project No.**

37TH STREET 2A

Drawing Number TYP-002

Sheet Number 6



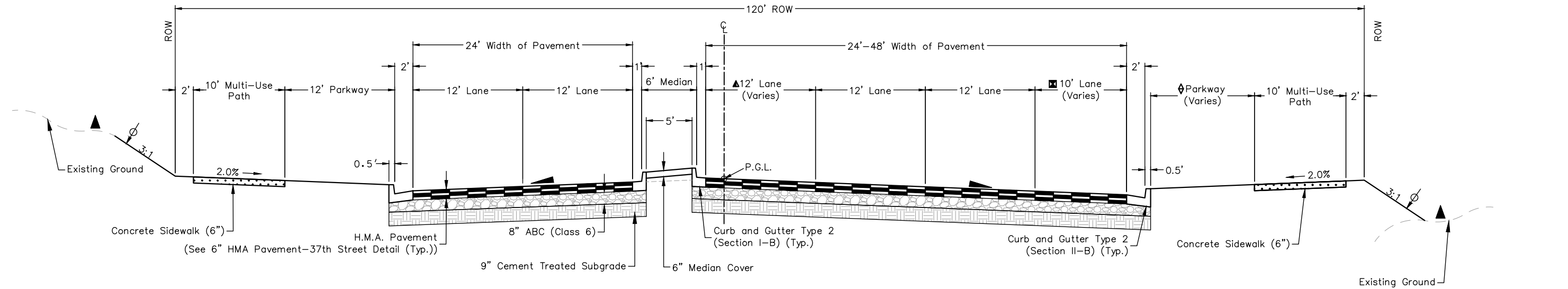


**TYPICAL SECTION ROADWAY 37TH STREET**  
Sta. 1112+31.00 to Sta. 1114+28.00

\*\* Sta. 1112+31 to Sta. 1112+84 Lt.: 12' - 0'  
Sta. 1112+84 to Sta. 1114+28 Lt.: 12' - 0'

● Sta. 1112+31 to Sta. 1113+32 Rt.: 12' - 0'  
Sta. 1113+32 to Sta. 1113+82 Rt.: 12' - 0'  
Sta. 1113+82 to Sta. 1114+28 Rt.: 0'

- ~ 2%
  - ~ 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. 1107+11.00 to Sta. 1111+30.00

▲ Sta. 1107+11 to Sta. 1108+55 Rt.: 12'-0'  
Sta. 1108+55 to Sta. 1111+30 Rt.: 0'

▣ Sta. 1107+11 to Sta. 1107+30 Rt.: 0'  
Sta. 1107+30 to Sta. 1108+50 Rt.: 0'-10'  
Sta. 1108+50 to Sta. 1111+30 Rt.: 10'

◆ Sta. 1107+11 to Sta. 1107+30 Rt.: 12'  
Sta. 1107+30 to Sta. 1108+50 Rt.: 12'-0'  
Sta. 1108+50 to Sta. 1111+30 Rt.: 0'

Plot Date: 2/12/2024 7:31 AM Plotted By: Sarah Hemler  
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Print Date: 2/12/2024

File Name: TYP P2A-001-37TH.DWG

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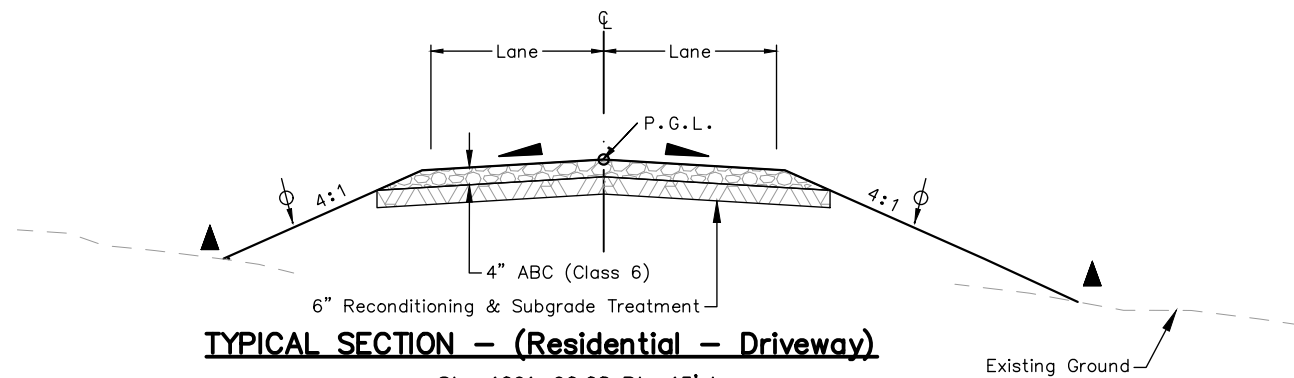
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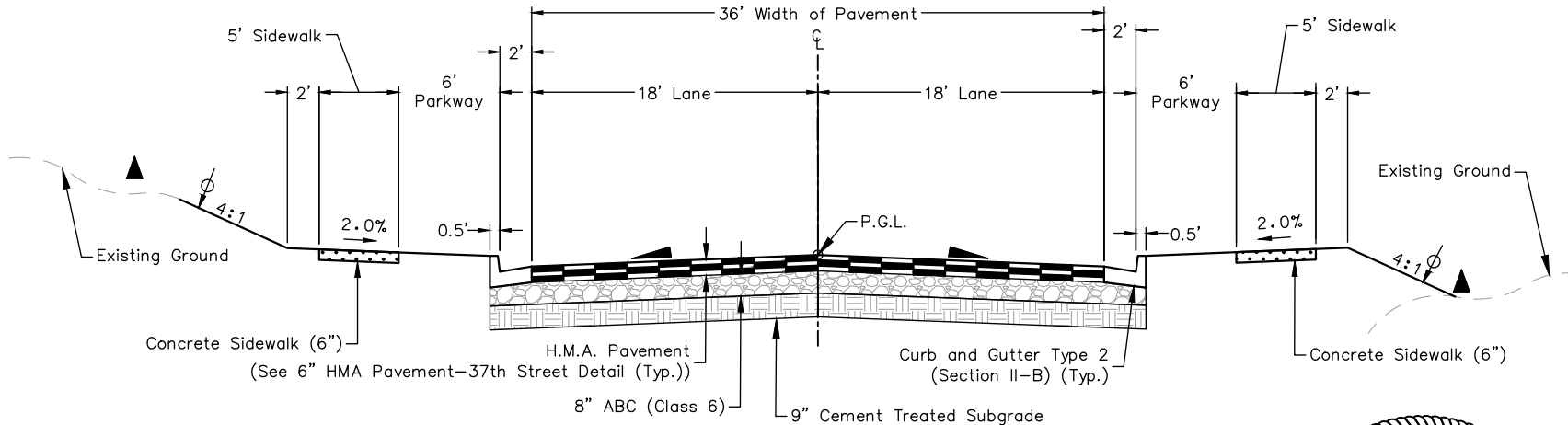
Sheet Revisions		
Date:	Comments	Init.

As Constructed		37TH STREET WIDENING PHASE 2A TYPICAL SECTIONS		Project No.
No Revisions:				37TH STREET 2A
Revised:		Designer: T. Tuttle	Structure Numbers	Drawing Number TYP-003
Void:		Detailer: S. Hemler		
		Sheet Subset: TYPICALS	Subset Sheets: 3 of 4	Sheet Number 7

FOR CONSTRUCTION 2/24/2024



Sta. 1091+90.08 Rt., 15' Lanes  
Sta. 1097+37.51 Lt., 10' Lanes  
Sta. 1098+53.19 Lt., 10' Lanes  
Sta. 1101+38.45 Rt., 10' Lanes  
Sta. 1101+43.20 Lt., 10' Lanes  
Sta. 1107+03.99 Rt., 15' Lanes  
Sta. 1114+32.36 Rt., 10' Lanes

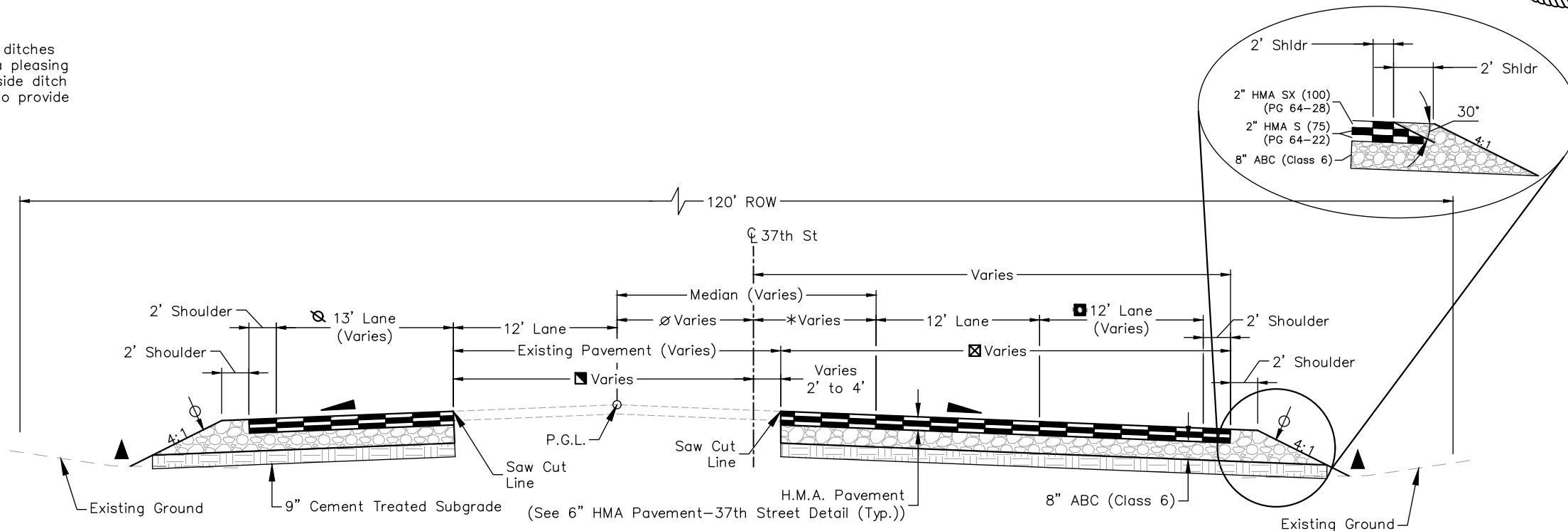


**TYPICAL SECTION ROAD APPROACH - STAMPEDE DRIVE**  
Sta. 1111+77.01 Lt.



- ~ 2%
- ~ 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

- Sta. 1115+05 to Sta. 1116+35 Lt.: 13'  
Sta. 1116+35 to Sta. 1117+85 Lt.: 13'-0'  
Sta. 1117+85 to Sta. 1120+35 Lt.: 0'
- Sta. 1115+05 to Sta. 1116+35 Lt.: 30'-18'  
Sta. 1116+35 to Sta. 1120+35 Lt.: 18'
- Sta. 1115+05 to Sta. 1120+35 Rt.: 32'-2'
- Sta. 1115+05 to Sta. 1120+35 Rt.: 12'-0'
- Sta. 1115+05 to Sta. 1120+35 Lt.: 10'-0'
- Sta. 1115+05 to Sta. 1118+26 Rt.: 10'-0'  
Sta. 1118+26 to Sta. 1120+35 Rt.: 0'



**TYPICAL SECTION ROADWAY 37TH STREET - APPROACH TO PROJECT**  
Sta. 1115+06.00 to Sta. 1120+36.00

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Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A TYPICAL SECTIONS			Project No.
	No Revisions:	Designer: T. Tuttle	Structure Numbers	37TH STREET 2A
Revised:	Detailer: S. Hemler			Drawing Number TYP-004
Void:	Sheet Subset: TYPICALS	Subset Sheets: 4 of 4		Sheet Number 8



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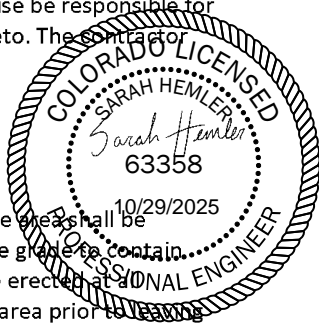
**GENERAL CONSTRUCTION NOTES**

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 general contractor shall be responsible for protecting adjacent improvements form damage and erosion. Any adjacent improvements damaged during construction shall, at a minimum, be restored to a state equal to its preconstruction state.
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. All work including warranty work, shall be inspected by a city representative who shall have authority to halt construction when proper construction practices are not being adhered to.
21. 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.
22. 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.
23. The general contractor shall be responsible for obtaining their own disposal site for all disposed materials.
24. 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.
25. It is estimated that 1 sanitary facility will be required on this project.
26. It is estimated that 80 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 washout 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. It is the responsibility of the developer/owner to maintain this erosion control measure for the duration of the 2 year warranty period.
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 ½” to ¾”. 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 control strip 25’ x 50’x 6” with 1 ½” to 3” rock 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.



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	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A GENERAL NOTES			Project No.
	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure		Drawing Number NT-001
Void:	Detailer: J. Jensen	Numbers		
Sheet Subset: NOTES		Subset Sheets: 1 of 3		Sheet Number 9

Plot Date: 2/5/2024 9:14 AM Plotted By: Sarah Hemler  
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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.

**GRADING NOTES**

- Grades shown on plans are finished grades. For subgrade elevations, refer to the paving sections and details.
- All work shall be performed in accordance with the recommendations of the geotechnical report produced, or referenced for this project.
- All work shall be performed in accordance with the storm water discharge permit issued for this project.
- 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.).
- All work shall be performed in accordance with the standards and specifications of the City of Evans, and the approved project construction documents.
- 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.
- 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.
- 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.
- 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.
- 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
- 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  $\pm 2\%$  of optimum moisture content as determined by AASHTO T99 or as recommended by a geotechnical engineer, prior to placement of embankment material.
- The minimum thickness of topsoil shall be 4 inches.

**ROADWAY IMPROVEMENT NOTES**

- All work shall be performed in accordance with the standards and specifications of the City of Evans, and the approved project documents.
- 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.
- Concrete and asphaltic mix design shall be submitted by the supplier and approved by the City of Evans prior to roadway construction.
- 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.
- 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 the City.

- 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.
- Street subgrades shall be scarified the top 12 inches and recompacted 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.
- 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.
- Prior to paving an herbicide treatment shall be applied for all new paved areas. It is estimated that 4.5 acres of herbicide treatment will be needed.
- 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  $\frac{1}{4}$ " below asphalt grade and have a one foot concrete collar installed around the outer diameter of the fittings.
- 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.
- 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.
- It is estimated that 100 hours of proof rolling will be required on this project.
- 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.
- 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.
- 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.
- Diluted emulsified asphalt for tack coat shall consist of 1 part emulsified asphalt and 1 part water.
- Water shall be used as a dust palliative where required. Locations shall be as directed by the Engineer.
- The Contractor shall not park any vehicles or equipment in, or disturb any areas not approved by the Engineer.
- 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.
- 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.
- Excavation required for compaction of bases of cuts and fills will be considered subsidiary to that operation and will not be paid for separately.
- 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.



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	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

	As Constructed		37TH STREET WIDENING PHASE 2A GENERAL NOTES		Project No.
	No Revisions:				37TH STREET 2A
	Revised:	Designer: T. Tuttle	Structure		Drawing Number NT-002
	Void:	Detailer: J. Jensen	Numbers		Sheet Number 10
		Sheet Subset: NOTES	Subset Sheets: 2 of 3		



Plot Date: 2/5/2024 9:14 AM Plotted By: Sarah Hemler  
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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.
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.

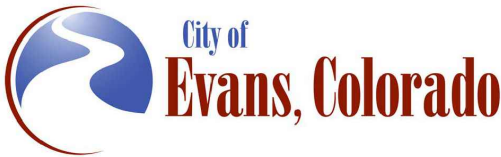
**TRAFFIC SIGNING & PAVEMENT MARKING NOTES**

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. Roadway
3. 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.
4. All signs and pavement markings shall be furnished and installed in accordance with MUTCD standards.
5. The contractor installing the signs shall be responsible for locating and protecting all underground utilities.
6. 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.
7. All signs shall be mounted with vandal-proof bolts.
8. All signs shall be installed on Unistrut Telespar type perforated posts with anchors at the proper height as per current MUTCD standards.
9. 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.
10. 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.
11. 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, onlys, crosswalks, stop bars, etc. shall be pre-formed thermoplastic per the City of Evans standards.
12. Markings that must be visible at night shall be retroreflective unless ambient illumination assures that the markings are adequately visible.
13. 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.



Print Date: 2/5/2024	
File Name: NT P2A-001 GENERAL NOTES.DWG	
Horiz. Scale: N/A	Vert. Scale: N/A
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	Thornton, CO 80241
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	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A GENERAL NOTES			Project No.
	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure		Drawing Number NT-003
	Detailer: J. Jensen	Numbers		
Void:	Sheet Subset: NOTES	Subset Sheets: 3 of 3		Sheet Number 11

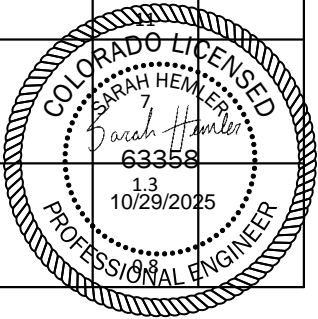
**ENVIRONMENTAL NOTES:**

1. CDPS Stormwater Construction Permit  
If project activities result in one acre or more of earth disturbance a CDPS permit will be 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. Wetlands, Threatened and Endangered Species, and Black-Tailed Prairie Dog Habitat  
Work activities including the movement and placement of vehicles and equipment shall not disturb wetlands, threatened and endangered species (or their habitat), or black-tailed prairie dog colonies. If any such sites are encountered, the engineer shall be notified so that all applicable clearances and permits may be obtained. CDOT Specification 240 shall be followed for any prairie dog management requirements.
3. 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.
4. MBTA  
The Migratory Bird Treaty Act (MBTA) protects migratory birds and their nests and eggs. Wildlife biologist hours have been provided for incidental work described in these notes. For projects that could potentially have an impact, the following conditions apply:
  - A. Tree trimming/removal  
Tree trimming and/or removal activities shall be completed before birds begin to nest or after the young have fledged. In Colorado, most nesting and rearing activities occur between April 1 and August 31. A nesting bird survey shall be conducted by the contractor's biologist before any tree trimming or removal activities begin between April 1 and August 31.
  - B. Bridge/box culvert work  
Bridge or box culvert work that may disturb nesting birds shall be completed before birds begin to nest or after the young have fledged. If work activities are planned between April 1 and August 31, nests shall be removed (before nesting begins) and appropriate measures taken to assure no new nests are constructed. Failure to remove and keep nests from becoming established may impact project construction.
  - C. Clearing/grubbing activities  
Clearing and grubbing of vegetation that may disturb ground nesting birds shall be completed before birds begin to nest or after the young have fledged. If work activities are planned between April 1 and August 31, vegetation shall be removed and/or trimmed to a height of six (6) inches or less prior to April 1. Once vegetation has been removed and/or trimmed, appropriate measures, i.e. repeated mowing/trimming, shall be implemented to assure vegetation does not grow more than six (6) inches. Failure to maintain vegetation height of six (6) inches or less may impact project construction.
  - D. Deterring nesting of migratory birds  
In order to deter migratory birds from returning to nesting sites, all nests should be removed within 50 feet of the limits of construction prior to nesting season and appropriate measures taken to assure no new nests are constructed. In Colorado, nesting and rearing activities occur between April 1 and August 31. If construction begins during this timeframe, a nesting bird survey shall be conducted by the contractor's biologist up to 7 days before any construction activities begin.
  - E. Birds of prey  
For birds of prey that could potentially nest near the project site, please contact and/or refer to Colorado Parks and Wildlife's "Recommended buffer zones and seasonal restrictions for Colorado raptors" guidelines available at Colorado Parks and Wildlife district offices and at <https://cpw.state.co.us/documents/wildlifespecies/livingwithwildlife/raptorbufferguidelines2008.pdf>.

Plot Date: 2/19/2024 4:26 PM Plotted By: Sarah Hemler  
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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	47				47	
			202-00012	Removal of Tree Stump	EACH	1				1	
			202-00015	Removal of Headwall	EACH	2				2	
			202-00035	Removal of Pipe	LF	110				110	
			202-00070	Removal of Barricade	EACH	1				1	
			202-00155	Removal of Wall	LF	62				62	
			202-00200	Removal of Sidewalk	SY	111				111	
			202-00201	Removal of Curb	LF	288				288	
			202-00220	Removal of Asphalt Mat	SY	11,128				11,128	
			202-00250	Removal of Pavement Marking	SF	412				412	
			202-00810	Removal of Ground Sign	EACH	8				8	
			202-01000	Removal of Fence	LF	412				412	
			202-01035	Removal of Gate	EACH	1				1	
			203-00060	Embankment Material (Complete In Place)	CY	16,119				16,119	
			203-01100	Proof Rolling	HOUR	100				100	
			203-01500	Blading	HOUR	20				20	
			203-01550	Dozing	HOUR	20				20	
			203-01597	Potholing	HOUR	80				80	
			206-00105	Cement Treated Base	CY	5,351				5,351	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY				PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.			PLAN	AS CONST.
			207-00205	Topsoil	CY	671				671	
			207-00405	Topsoil (Special)	CY	1,915				1,915	
			208-00002	Erosion Log Type 1 (12 Inch)	LF	3,412				3,412	
			208-00021	Silt Fence (Reinforced)	LF	1,600				1,600	
			208-00035	Aggregate Bag	LF	300				300	
			208-00046	Pre-Fabricated Concrete Washout Structure (Type I)	EACH	2				2	
			208-00053	Storm Drain Inlet Protection (Type I) (84 Inch)	EACH	8				8	
			208-00054	Storm Drain Inlet Protection (Type II)	EACH	3				3	
			208-00075	Pre-fabricated Vehicle Tracking Pad	EACH	4				4	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	10				10	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	20				20	
			208-00106	Sweeping (Sediment Removal)	HOUR	20				20	
			208-00107	Removal of Trash	HOUR	10				10	
			208-00207	Erosion Control Management (ECM)	LS	1				1	
			210-00010	Reset Mailbox Structure	EACH	1				1	
			210-00050	Reset Fire Hydrant	EACH	2				2	
			210-01710	Reset Valve	EACH	11					
			210-04010	Adjust Manhole	EACH	7					
			212-00006	Seeding (Type I)	ACRE	1.3					
			212-00022	Seeding (Type II)	ACRE	0.8					



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Sheet Revisions		
Date:	Comments	Init.



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No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
SUMMARY OF APPROXIMATE  
QUANTITIES

Designer: T. Tuttle

Detailer: S. Hemler

Sheet Subset: SAQ

Structure Numbers

Subset Sheets: 1 of 3

Project No.

37TH STREET 2A

Drawing Number SAQ-001

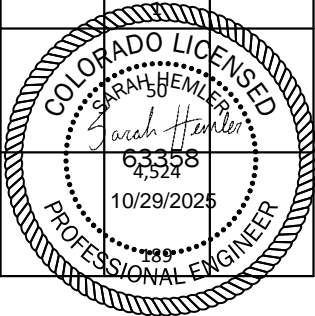
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FOR CONSTRUCTION 2/24/2024

Plot Date: 2/19/2024 4:28 PM Plotted By: Sarah Hemler  
P:\Q-PROJECTS\YORINE PROJECTS\33001 EVANS 37TH ST AND 47TH AVE PLAN\302 COMPUTER DESIGN FILES\P2 - PHASE 2A\BOL SHEET FILES\SAQ\_P2A-002.DWG

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY				PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.			PLAN	AS CONST.
			212-00032	Soil Conditioning	ACRE	2.1				2.1	
			213-00004	Mulching (Weed Free Straw)	ACRE	2.1				2.1	
			213-00005	Wood (Organic) Mulch (Brown Western Red Cedar)(4" Depth)	CY	209				209	
			213-00012	Spray-on Mulch Blanket	ACRE	1.0				1.0	
			213-00061	Mulch Tackifier	LB	420				420	
			213-00067	Inorganic Mulch (1.5" to 3" Tan River Rock)(3" Depth)(Special)	SF	4,409				4,409	
			213-00318	18 Inch Root Barrier	LF	2,520				2,520	
			213-00440	Metal Landscape Border (1/8" x 4")	LF	822				822	
			213-00705	Landscape Boulder A (Siloam)(4'l. x 2'w. x 2'h.)(Special)	EACH	33				33	
			213-00705	Landscape Boulder B (Siloam)(3'l. x 2'w. x 2'h.)(Special)	EACH	36				36	
			213-00705	Landscape Boulder C (Siloam)(2'l. x 2'w. x 2'h.)(Special)	EACH	52				52	
			214-00220	Deciduous Tree (2" Cal.)	EACH	36				36	
			214-00230	Deciduous Ornamental Tree (1.5" Cal.)	EACH	15				15	
			214-00350	Deciduous Shrub (5 Gal.)	EACH	116				116	
			214-00508	Exisitng Tree Protection	LS	1				1	
			214-00650	Evergreen Shrub (5 Gal.)	EACH	27				27	
			214-00908	Ornamental Grasses and Perennials (1 Gal.)	EACH	185				185	
			217-00000	Herbicide Treatment	ACRE	4.5				4.5	
			240-00000	Wildlife Biologist	HOURL	8				8	
			304-06007	Aggregate Base Course (Class 6)	CY	5,157				5,157	

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY				PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.			PLAN	AS CONST.
			403-33741	Hot Mix Asphalt (Grading S)(75)(PG 64-22)	TON	4,611				4,611	
			403-34851	Hot Mix Asphalt (Grading SX)(100)(PG 64-28)	TON	2,306				2,306	
			411-10255	Emulsified Asphalt (Slow Setting)	GAL	1,823				1,823	
			412-00600	Concrete Pavement (6 Inch)	SY	204				204	
			412-00800	Concrete Pavement (8 Inch)	SY	21				21	
			504-08255	Masonry Landscape Wall (Dry Stack)	SF	468				468	
			603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	LF	165				165	
			603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF	831				831	
			603-01305	30 Inch Reinforced Concrete Pipe (Complete In Place)	LF	235				235	
			603-50008	8 Inch Plastic Pipe	LF	130				130	
			604-19115	Inlet Type R L 5 (15 Foot)	EACH	2				2	
			604-19205	Inlet Type R L 10 (5 Foot)	EACH	1				1	
			604-19210	Inlet Type R L 10 (10 Foot)	EACH	1				1	
			604-196XX	Inlet (Filter System)	EACH	2				2	
			604-30010	Manhole Slab Base (10 Foot)	EACH	3				3	
			604-30015	Manhole Slab Base (15 Foot)	EACH	3				3	
			604-30020	Manhole Slab Base (20 Foot)	EACH	1					
			607-11525	Fence (Plastic)	LF	50					
			608-00006	Concrete Sidewalk (6 Inch)	SY	4,524					
			608-00008	Concrete Sidewalk (8 Inch)	SY	189					



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Sheet Revisions		
Date:	Comments	Init.

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No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
SUMMARY OF APPROXIMATE  
QUANTITIES

Designer: T. Tuttle

Detailer: S. Hemler

Sheet Subset: SAQ

Structure Numbers

Subset Sheets: 2 of 3

Project No.

37TH STREET 2A

Drawing Number SAQ-002

Sheet Number 13

FOR CONSTRUCTION 2/24/2024



Plot Date: 2/19/2024 4:28 PM Plotted By: Sarah Hemler  
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY				PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.			PLAN	AS CONST.
			608-00010	Concrete Curb Ramp	SY	168				168	
			609-21010	Curb and Gutter Type 2 (Section I-B)	LF	4,056				4,056	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	4,685				4,685	
			609-24008	Gutter Type 2 (8 Foot)	LF	36				36	
			610-00026	Median Cover Material (6 Inch Patterned Colored Concrete)	SF	9,738				9,738	
			614-00011	Sign Panel (Class 1)	SF	156				156	
			614-00214	Steel Sign Post (1.75x1.75 Inch Tubing)	LF	229				229	
			614-80321	Barricade (Type 3M-A)	EACH	2				2	
			619-50640	8 Inch PVC C900 DR18	LF	199				199	
			619-75064	8 Inch Gate Valve	EACH	3				3	
			620-00020	Sanitary Facility	EACH	1				1	
			623-07006	3/4 Inch Water Meter	EACH	4				4	
			623-09900	Irrigation System	LS	1				1	
			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	28				28	
			627-30405	Preformed Thermoplastic Pavement Marking (Word-Symbol)	SF	438				438	
			627-30410	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line)	SF	400				400	
			629-01004	Survey Monument (Type 4)	EACH	4				4	

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	2				2	
			630-00000	Flagging	HOUR	1,000				1,000	
			630-00007	Traffic Control Inspection	DAY	36				36	
			630-00012	Traffic Control Management	DAY	90				90	
			630-80337	Barricade (Type 3M-C) (Temporary)	EACH	6				6	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	40				40	
			630-80350	Vertical Panel	EACH	50				50	
			630-80360	Drum Channelizing Device	EACH	200				200	
			630-80380	Traffic Cone	EACH	100				100	
			700-	F/A Irrigation	F A	1				1	
			700-70491	F/A Traffic Control	F A	1				1	



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Date:	Comments	Init.

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No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
SUMMARY OF APPROXIMATE  
QUANTITIES

Designer: T. Tuttle

Detailer: S. Hemler

Sheet Subset: SAQ

Structure Numbers

Subset Sheets: 3 of 3

Project No.

37TH STREET 2A

Drawing Number SAQ-003

Sheet Number 14

FOR CONSTRUCTION 2/24/2024

Plot Date: 2/19/2024 4:41 PM Plotted By: Sarah Hemler  
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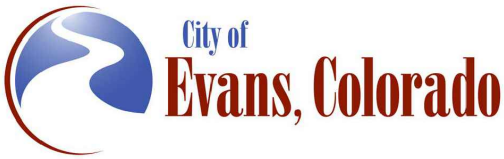
SUMMARY OF EARTHWORK QUANTITIES	
EMBANKMENT MATERIAL (COMPLETE IN PLACE) (NET)	CUBIC YARDS
FOR ROADWAY	13,941
FOR MANHOLES/INLETS/PIPES	1,141
FOR ROAD APPROACHES	1,037
TOTAL	16,119
FOR INFORMATION ONLY	
UNCLASSIFIED EXCAVATION	CUBIC YARDS
FOR ROADWAY	9,444
FOR ROAD APPROACHES	257
FOR MANHOLES/INLETS/PIPES	662
TOTAL	10,363
EARTHWORK QUANTITIES BALANCE	
UNCLASSIFIED EXCAVATION	CUBIC YARDS
TOTAL UNCLASSIFIED EXCAVATION	10,363
TOTAL	10,363
EMBANKMENT (NET)	
TOTAL	16,119
TOTAL FROM CONTRACTOR'S SOURCE	5,756

A minimum R-value for all imported embankemnt will be 45.



Print Date: 2/19/2024	
File Name: TAB P2A-001 TABULATION.DWG	
Horiz. Scale: N/A	Vert. Scale: N/A
	12076 Grant Street
	Thornton, CO 80241
	Ph: (303) 962-9300
	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A TABULATIONS		Project No.
No Revisions:				37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure		Drawing Number TAB-001
Void:	Detailer: S. Hemler	Numbers		Sheet Number 15
		Sheet Subset: TABS	Subset Sheets: 1 of 4	

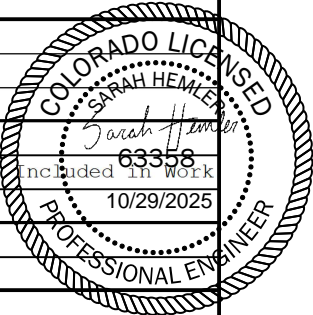
TABULATION OF PAVEMENT ITEMS				
STATION	HOT MIX ASPHALT PAVING		EMULSIFIED ASPHALT (SLOW-SETTING)	AGGREGATE BASE COURSE (CLASS 6)
	HOT MIX ASPHALT (GRADING SX) (100) (PG 64-28)	HOT MIX ASPHALT (GRADING S) (75) (PG 64-22)		
	TONS	TONS	GAL	CY
Sienna Avenue to 35th Avenue				
1091+46.80 - 1115+05.78			1,616	4,065
1st Lift	1,777			
2nd Lift		1,777		
3rd Lift		1,777		
Approach to Project				
1115+05.78 - 1120+35.57			154	341
1st Lift	169			
2nd Lift		169		
3rd Lift		169		
Road Approaches				
1091+90.08 Rt.				42
1097+37.51 Lt.				11
1098+53.19 Lt.				10
1101+38.45 Rt.				16
1101+43.20 Lt.				13
1107+03.99 Rt.				26
1114+32.36 Rt.				23
Stampede Dr. - 1111+77.01 Lt.			53	140
1st Lift	59			
2nd Lift		59		
3rd Lift		59		
SUBTOTALS	2,005	4,010	1,823	4,688
Irregularities (15%)	301	601		
Irregularities (10%)				469
TOTALS	2,306	4,611	1,823	5,157

TABULATION OF RETAINING WALL		
STATION	MASONRY LANDSCAPE WALL (DRY STACK)	REMARKS
	SF	
1092+69.95 - 1093+00.00	30	1' Tall
1103+25.00 - 1104+75.00	375	2.5' Tall
1112+25.00 - 1112+50.00	63	2.5' Tall
TOTAL	468	

FOR CONSTRUCTION 2/24/2024

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P:\Q-PROJECTS\YORTE PROJECTS\33001 EVANS 37TH ST AND 47TH AVE PLAN\320 COMPUTER DESIGN FILES\P2 - PHASE 2A\802 SHEET FILES\TAB P2A-001 TABULATION.DWG

TABULATION OF REMOVALS, RESETS, AND ADJUSTMENTS																		
STATION	SIDE	REMOVAL OF TREE	REMOVAL OF BARRICADE	REMOVAL OF TREE STUMP	REMOVAL OF HEADWALL	REMOVAL OF PIPE	REMOVAL OF WALL	REMOVAL OF SIDEWALK	REMOVAL OF CURB	*REMOVAL OF ASPHALT MAT	REMOVAL OF PAVEMENT MARKING	REMOVAL OF FENCE	REMOVAL OF GATE	RESET MAILBOX STRUCTURE	RESET FIRE HYDRANT	RESET VALVE	ADJUST MANHOLE	REMARKS
		EA	EA	EA	EA	LF	LF	SY	LF	SY	SF	LF	EA	EA	EA	EA	EA	
1089+00.00	Rt.										58							
1091+46.80 - 1120+35.57	Rt. & Lt.									11128								
1091+46.80	Rt.		1															Removal of barricade with sign from previous construction 37th St. Phase 1
1091+94.77	Lt.															1		Water Valve
1092+00.08	Lt.															1		Water Valve
1092+21.53	Lt.							13	39									Tie in at Sienna Ave.
1096+59.42	Lt.															1		
1096+59.42	Rt.														1			
1098+36.73 - 1102+00.96	Rt.	20																
1100+34.50 - 1100+68.62	Rt.					34												
1100+91.90	Lt.							21	37									Tie in at Palermo Ave.
1101+33.24	Lt.															1		Water Valve
1101+48.38	Lt.															1		Water Valve
1101+63.57	Lt.							15	41									Tie in at Palermo Ave.
1102+45.23 - 1105+79.98	Rt.											412						
1103+62.32	Rt.	1																
1105+31.80	Rt.	1																
1105+79.98	Rt.												1					Fence Gate
1105+80.78	Rt.						62											Concrete and Steel Feeders
1105+99.80	Rt.														1			
1106+00.47	Lt.															1		Water Valve
1106+19.59	Lt.																1	
1106+45.22	Lt.																1	
1106+46.06	Lt.															1		Water Valve
1107+87.67	Lt. & Rt.					61												20'' CMP
1109+84.83	Lt.																1	
1111+32.06	Lt.							40	80									Tie in at Stampede Drive
1111+64.06	Lt.															1		Water Valve
1111+64.94	Lt.															1		
1111+82.56	Lt.							22	91									Tie in at Stampede Drive
1111+84.83	Lt.															1		Water Valve
1111+98.36	Lt.																1	
1112+99.44	Rt.													1				
1113+24.89 - 1115+74.96	Rt.	25																
1113+45.53	Rt.																	148' of Planks of Wood Aligning the Driveway
1113+44.37	Lt.																1	
1115+00.00 - 1120+35.57	Lt.										354							
1115+03.54	Rt.				1													Irrigation Structure
1115+07.65	Rt.				1													Concrete Irrigation Structure
1115+59.50	Rt.					12												12" PVC
1115+65.70	Rt.			1														
1115+70.68	Rt.					3												12" PVC and Connected Appurtenances included in work
1117+07.62	Lt.																1	
1117+78.25	Lt.																1	
1118+28.09	Rt.															1		Water Valve
TOTALS		47	1	1	2	110	62	111	288	11,128	412	412	1	1	2	11	7	



Print Date: 2/19/2024

File Name: TAB P2A-001 TABULATION.DWG

Horiz. Scale: N/A

Vert. Scale: N/A

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Sheet Revisions		
Date	Comments	Initials

As Constructed

No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
TABULATIONS

Designer: T. Tuttle

Detailer: G. Garramone

Sheet Subset: TABS

Structure Numbers

Subset Sheets: 2 of 4

Project No.

37TH STREET 2A

Drawing Number TAB-002

Sheet Number 16

FOR CONSTRUCTION 2/24/2024



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)	GUTTER TYPE 2 (8 FOOT)	MEDIAN COVER MATERIAL (6 INCH PATTERNED CONCRETE)	CONCRETE PAVEMENT (6 INCH)	CONCRETE PAVEMENT (8 INCH)	REMARKS
		SY	SY	SY	LF	LF	LF	SF	SY	SY	
Sienna Ave. to Palermo Ave.											
1091+40.00 - 1101+40.00	Lt.	822		74		903					
	Rt.	1,049				993					
	Total				1,626			3,843			
Palermo Ave. to Stampede Dr.											
1101+40.00 - 1111+80.00	Lt.	981		26		995					
	Rt.	1,050				978					
	Total				1,868			4,199			
Stampede Dr. to Project End											
1111+80.00 - 1115+05.78	Lt.	242				291					
	Rt.	282				284					
	Total				562			1,697			
Road Approaches											
1091+90.08	Rt.		33						38		
1097+37.51	Lt.		22						26		
1098+53.19	Lt.		22						26		
1101+38.45	Rt.		34						27		
1101+43.20	Lt.		10						21		Driveway off Palermo Ave
1107+03.99	Rt.		33						38		
1111+77.01	Lt.	98		69		240	36			21	Stampede Drive
1114+32.36	Rt.		34						27		
TOTAL		4,524	189	168	4,056	4,685	36	9,738	204	21	



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P:\Q-PROJECTS\37TH STREET WIDENING\37TH ST AND 47TH AVE PLAN\2024\COMPUTER DESIGN FILES\P2 - PHASE 2A\802-SHEET FILES\TAB P2A-001 TABULATION.DWG

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No Revisions:					37TH STREET 2A
Revised:		Designer: T. Tuttle	Structure Numbers		Drawing Number TAB-003
Void:		Detailer: S. Hemler			
		Sheet Subset: TABS	Subset Sheets: 3 of 4		Sheet Number 17

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TABULATION OF STRUCTURE QUANTITIES																		
NOTE NO.	STATION AND OFFSET	*STRUCTURE EXCAVATION	**UNCLASSIFIED EXCAVATION	*STRUCTURE BACKFILL (SQUEEGEE SAND)	STRUCTURE BACKFILL (NATIVE MATERIAL)	**EMBANKMENT (NATIVE MATERIAL)	REINFORCED CONCRETE PIPE (CIP)			PLASTIC PIPE	INLET TYPE R L 5 (15 FOOT)	INLET TYPE R L 10 (5 FOOT)	INLET TYPE R L 10 (10 FOOT)	INLET (FILTER SYSTEM)	MANHOLE SLAB BASE (10 FOOT)	MANHOLE SLAB BASE (15 FOOT)	MANHOLE SLAB BASE (20 FOOT)	REMARKS
		CY	CY	CY	CY	CY	LF			LF	EACH	EACH	EACH	EACH	EACH	EACH		
							18''	24''	30''	8''								
Pipe 1		232.37	192.13	76.57	103.38	311.34			235									
MH-1	1106+39.92, 28.80' Rt.																1	6-Foot Diameter
MH-2	1108+75.09, 29.00' Rt.														1			7-Foot Diameter
Pipe 2		221.77	42.78	73.57	101.78	211.04		277										
MH-3	1111+52.09, 28.95' Rt.														1			5-Foot Diameter
Pipe 3		221.77	134.32	73.57	101.78	264.94		277										
MH-4	1114+29.17, 29.00' Rt.															1		5-Foot Diameter
Pipe 4		221.77	152.86	73.57	101.78	211.61		277										
MH-5	1117+06.24, 29.04' Rt.														1			5-Foot Diameter
MH-13	1097+75.37, 73.03' Lt.															1		5-Foot Diameter w/ Beehive Grate, re-grade to drain
MH-14	1098+76.55, 71.16' Lt.															1		5-Foot Diameter w/ Beehive Grate, re-grade to drain
IN-1	1108+75.91, 36.00' Lt.												1	1				
Pipe 7		41.43	39.07	14.21	20.31	28.49	67											
Pipe 8		13.02	0.00	4.03	5.76	10.28	19											
IN-2	1108+75.15, 36.00' Rt.											1		1				
IN-5	1111+56.08, 91.78' Lt.										1							
Pipe 15		27.82	26.02	9.33	13.34	16.99	44											
IN-6	1111+96.06, 91.41' Lt.										1							
Pipe 14		22.49	23.28	7.42	10.61	16.76	35											
Pipe		65.50	51.26	24.51	35.78	69.38				130								Irrigation Line, C900 Purple, Includes Connections
TOTALS		1,068	662	357	495	1,141	165	831	235	130	2	1	1	2	3	3	1	

\*For Information Only  
\*\*Carried to Summary of Earthwork



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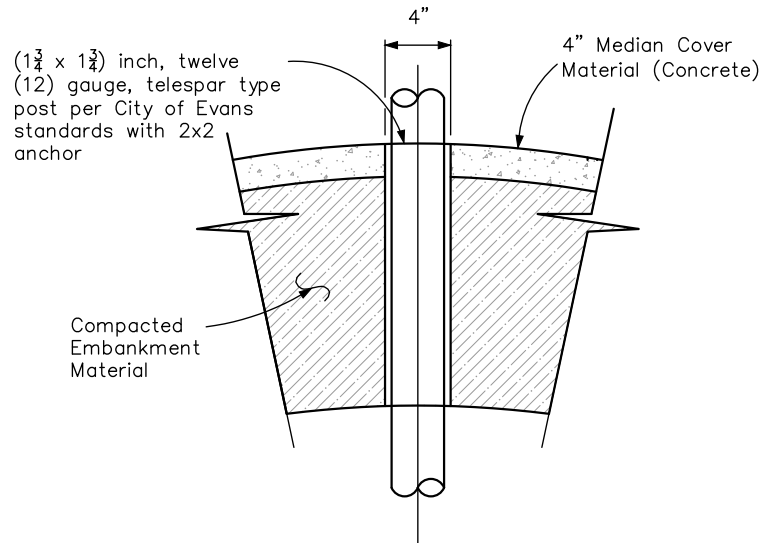
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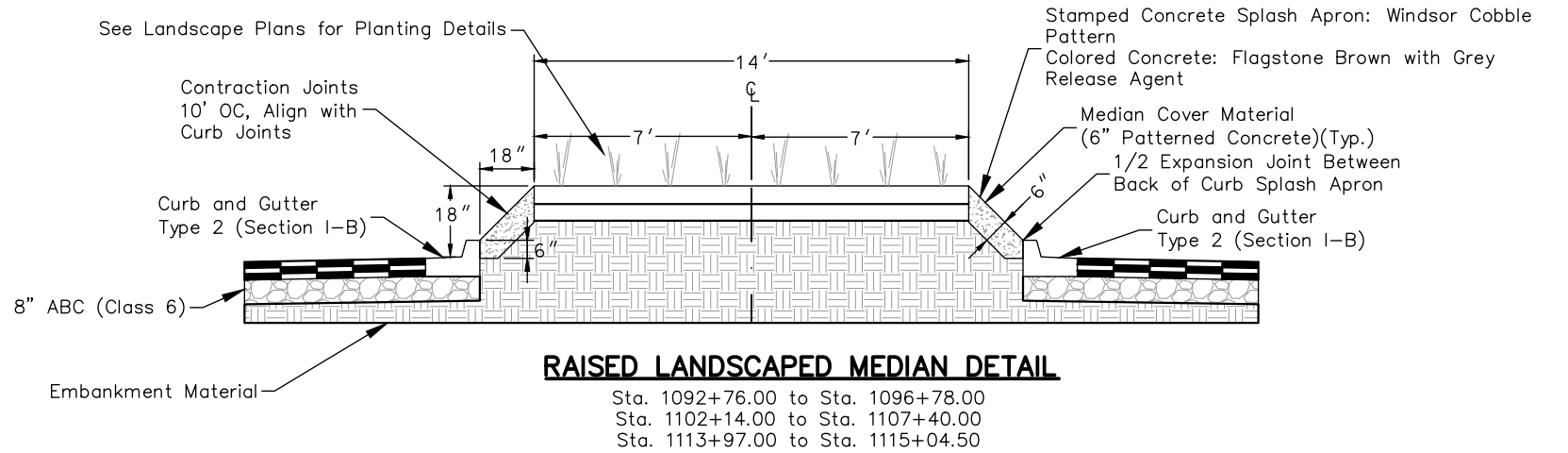
As Constructed	37TH STREET WIDENING PHASE 2A TABULATIONS			Project No.
	No Revisions:			37TH STREET 2A
	Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number TAB-004
Void:	Detailer: J. Jensen	Sheet Subset: TABS	Subset Sheets: 4 of 4	Sheet Number 18

FOR CONSTRUCTION 2/24/2024



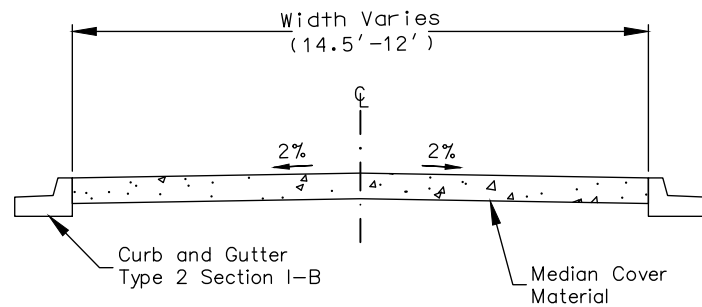
**SLEEVE FOR DESIGN POST OR DELINEATOR  
POST IN CONCRETE DETAIL**

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.

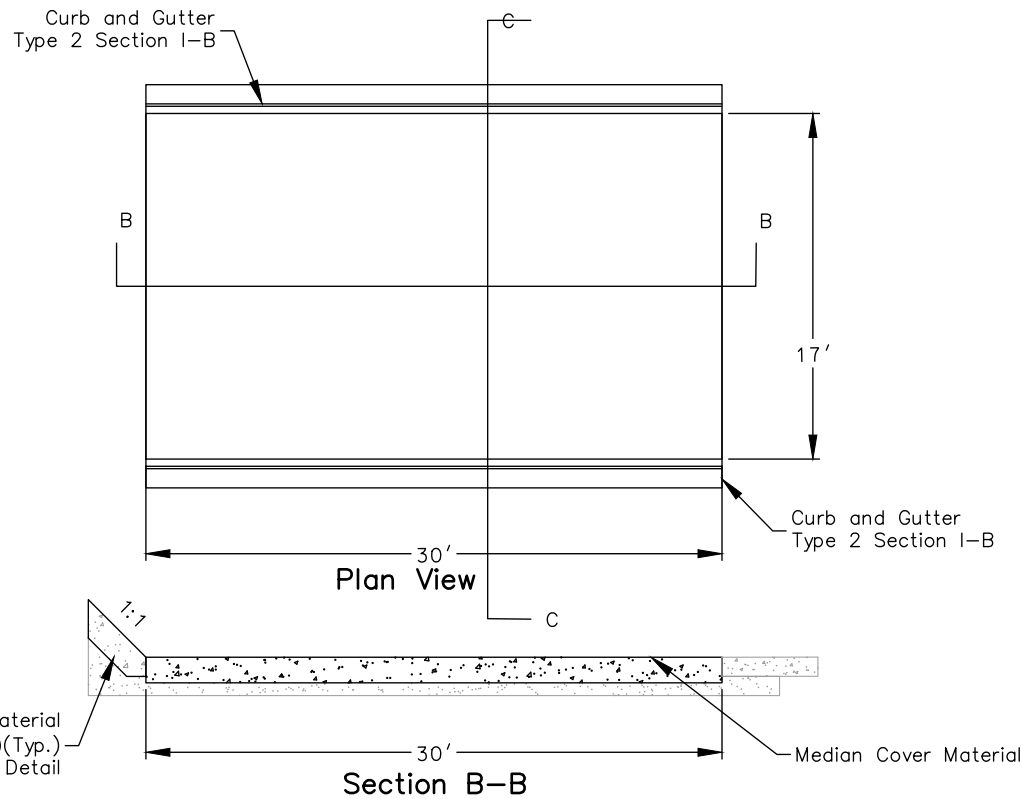


**RAISED LANDSCAPED MEDIAN DETAIL**

Sta. 1092+76.00 to Sta. 1096+78.00  
Sta. 1102+14.00 to Sta. 1107+40.00  
Sta. 1113+97.00 to Sta. 1115+04.50

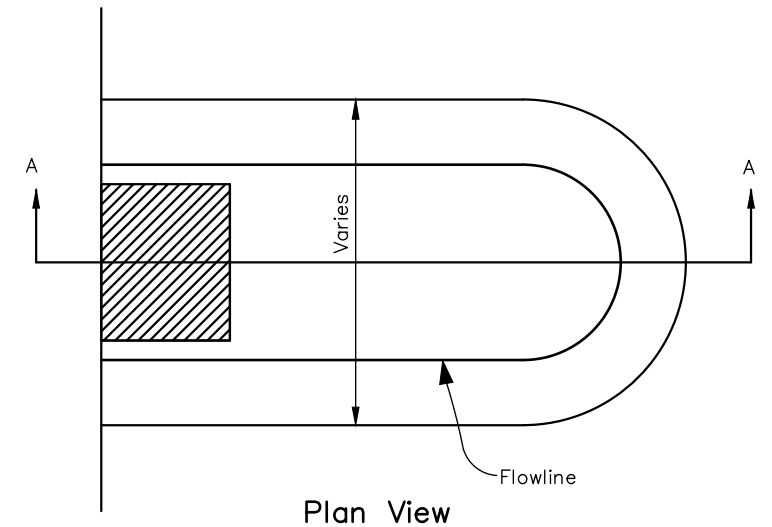


**Section C-C**

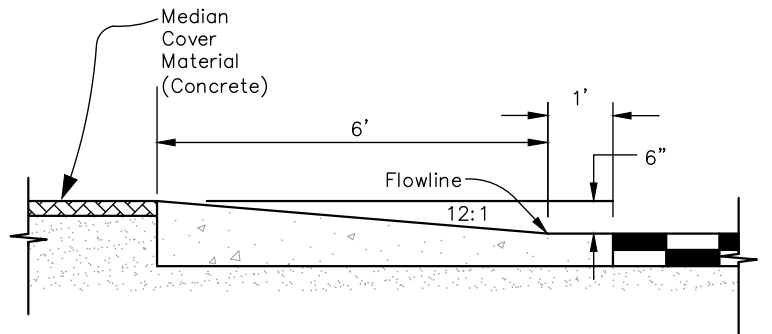


**PAVED MAINTENANCE PULLOUT SPACE DETAIL**

Sta. 1096+79.00 to Sta. 1097+09.00  
Sta. 1107+42.00 to Sta. 1107+72.00



**Plan View**



**Section A-A**

**MEDIAN ISLAND NOSE DETAIL**

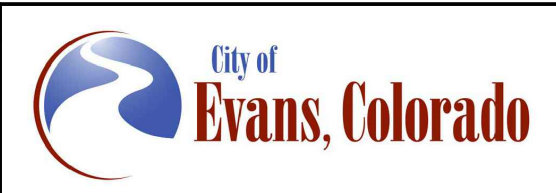
Sta. 1100+71  
Sta. 1111+30  
Sta. 1112+31

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



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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 STREET WIDENING PHASE 2A DETAILS		
Designer:	T. Tuttle	Structure
Detailer:	S. Hemler	Numbers
Sheet Subset:	DETAILS	Subset Sheets: 1 of 12

Project No.
37TH STREET 2A
Drawing Number DT-001
Sheet Number 19

FOR CONSTRUCTION 2/24/2024

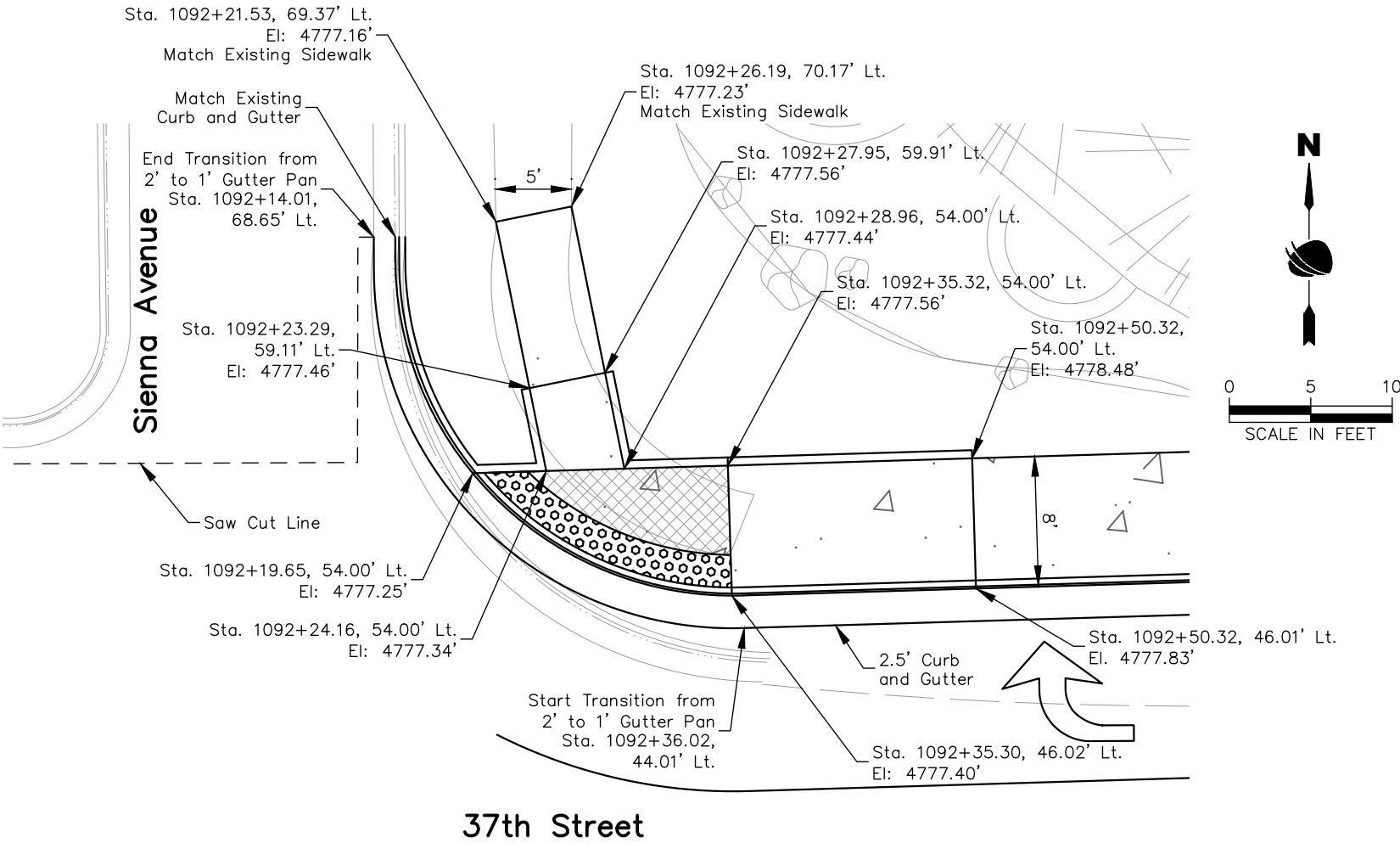


LEGEND

Turning Space

NOTES:

- 1. If any field adjustments for ADA Ramps are required, ramp design must adhere to the latest CDOT M-608-1 standard.
- 2. Detectable warnings shall be cast iron.
- 3. It is estimated that 8 DWS panels (2' x 2') will be needed for this curb ramp.
- 4. All callouts are to the FL of the curb.
- 5. Refer to Road Approach Sheets for additional information

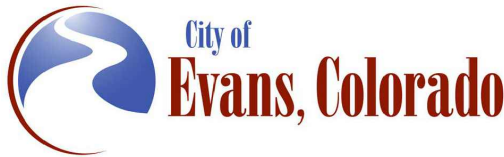


CURB RAMP SIENNA AVENUE EAST



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Sheet Revisions		
Date	Comments	Initials



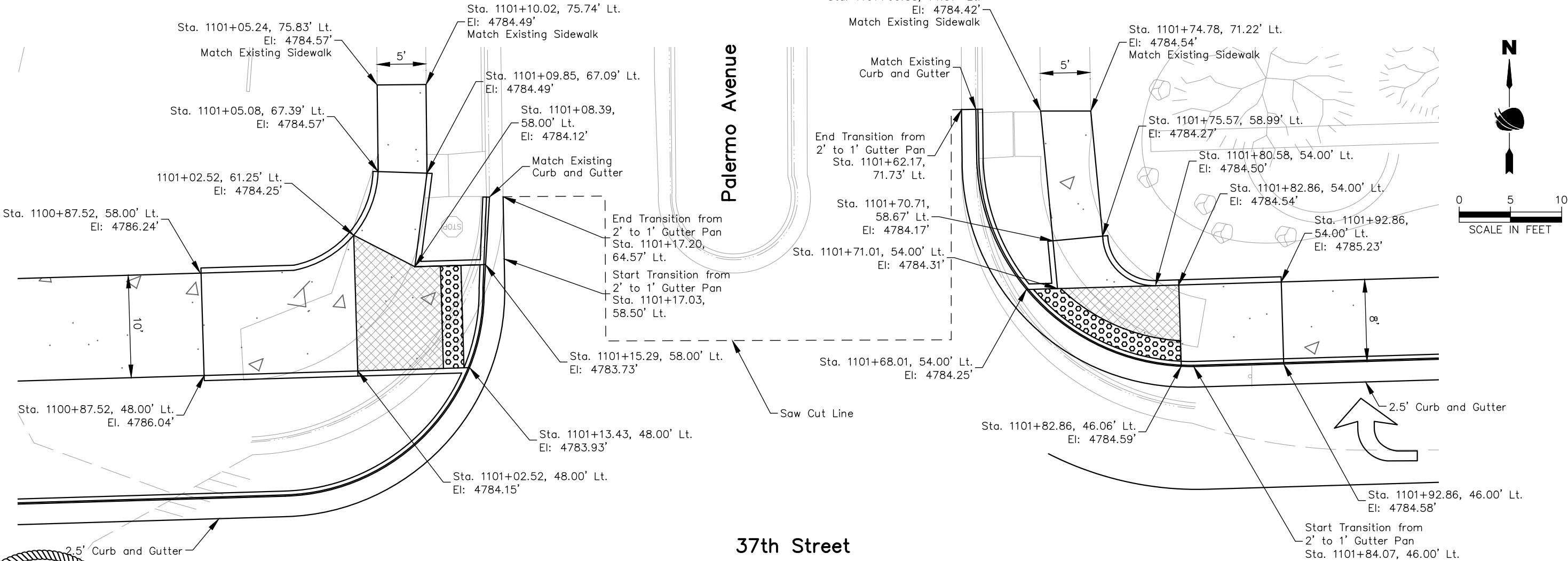
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Revised:	Designer: T. Tuttle	Structure Numbers		Drawing Number DT-002
Void:	Detailer: J. Jensen			Sheet Number 20
	Sheet Subset: DETAILS	Subset Sheets: 2 of 12		

LEGEND



NOTES:

1. If any field adjustments for ADA Ramps are required, ramp design must adhere to the latest CDOT M-608-1 standard.
2. Detectable warnings shall be cast iron.
3. It is estimated that 5 DWS panels (2' x 2') will be needed for the west ramp.
4. It is estimated that 8 DWS panels (2' x 2') will be needed for the east ramp.
5. All callouts are to the FL of the curb.
6. Refer to Road Approach Sheets for additional information.



CURB RAMP PALERMO AVENUE WEST


CURB RAMP PALERMO AVENUE EAST




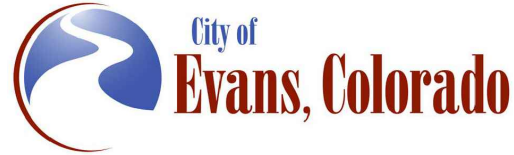
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	No Revisions:			37TH STREET 2A
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Void:	Detailer: J. Jensen	Sheet Subset: DETAILS	Subset Sheets: 3 of 12	Sheet Number 21

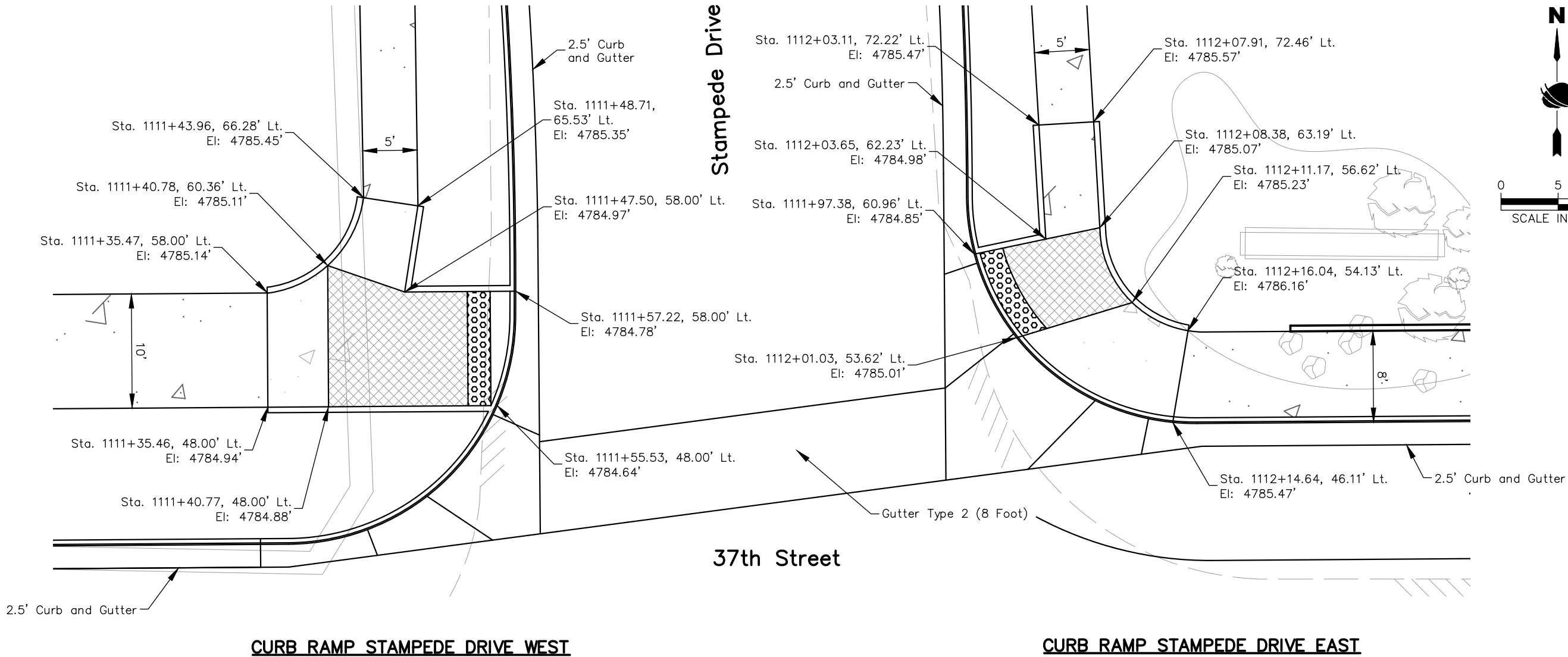
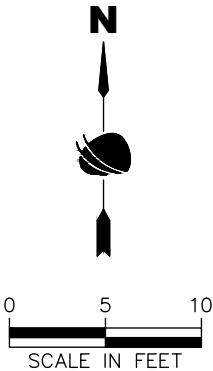
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FOR CONSTRUCTION 2/24/2024

LEGEND

Turning Space

- NOTES:
1. If any field adjustments for ADA Ramps are required, ramp design must adhere to the latest CDOT M-608-1 standard.
  2. Detectable warnings shall be cast iron.
  3. It is estimated that 5 DWS panels (2' x 2') will be needed for the west ramp.
  4. It is estimated that 4 DWS panels (2' x 2') will be needed for the east ramp.
  5. All callouts are to the FL of the curb.
  6. Refer to Road Approach Sheets for additional information.



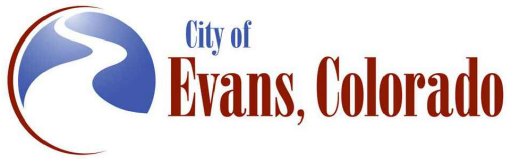
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Horiz. Scale: As Noted Vert. Scale: N/A

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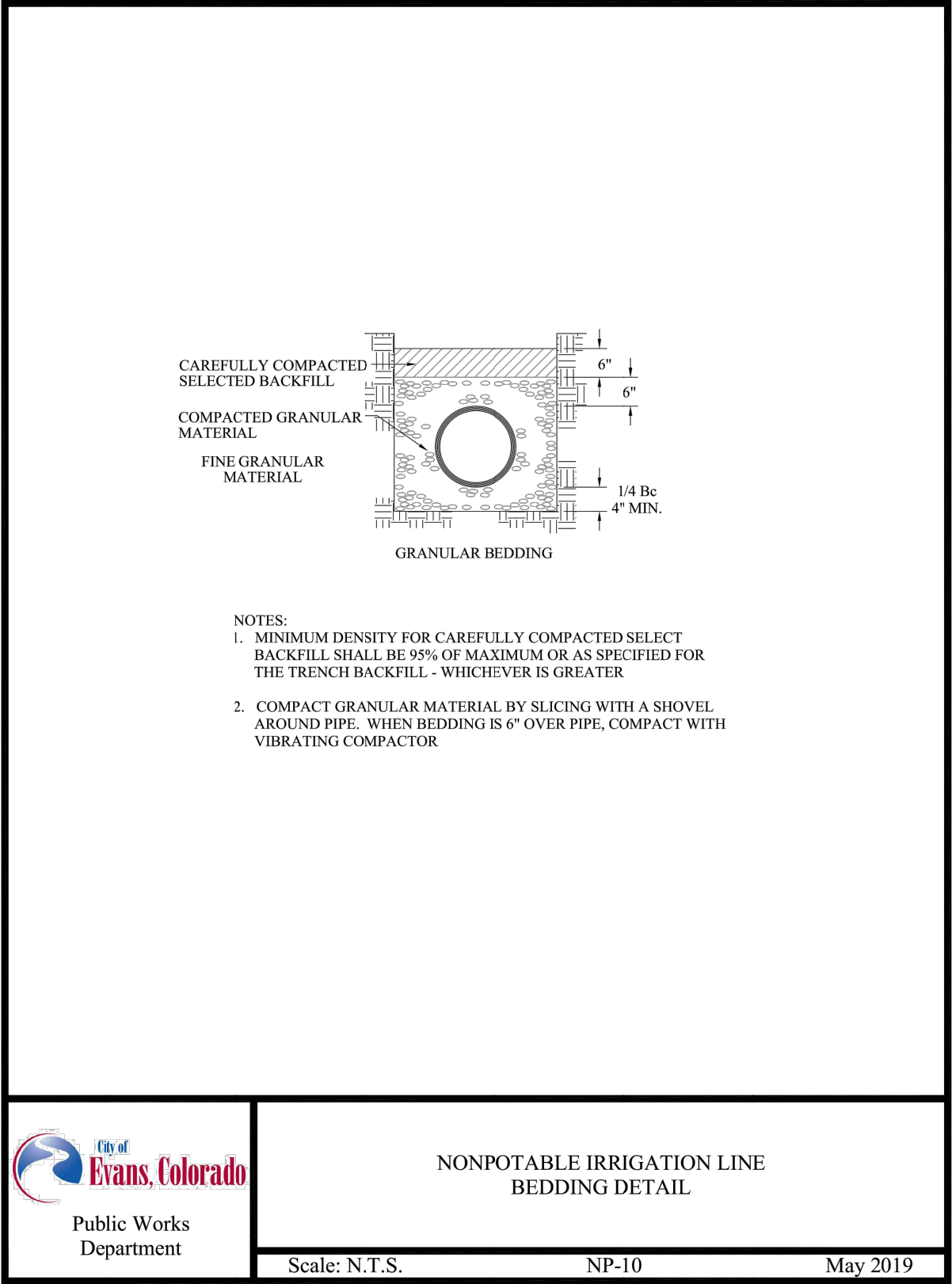
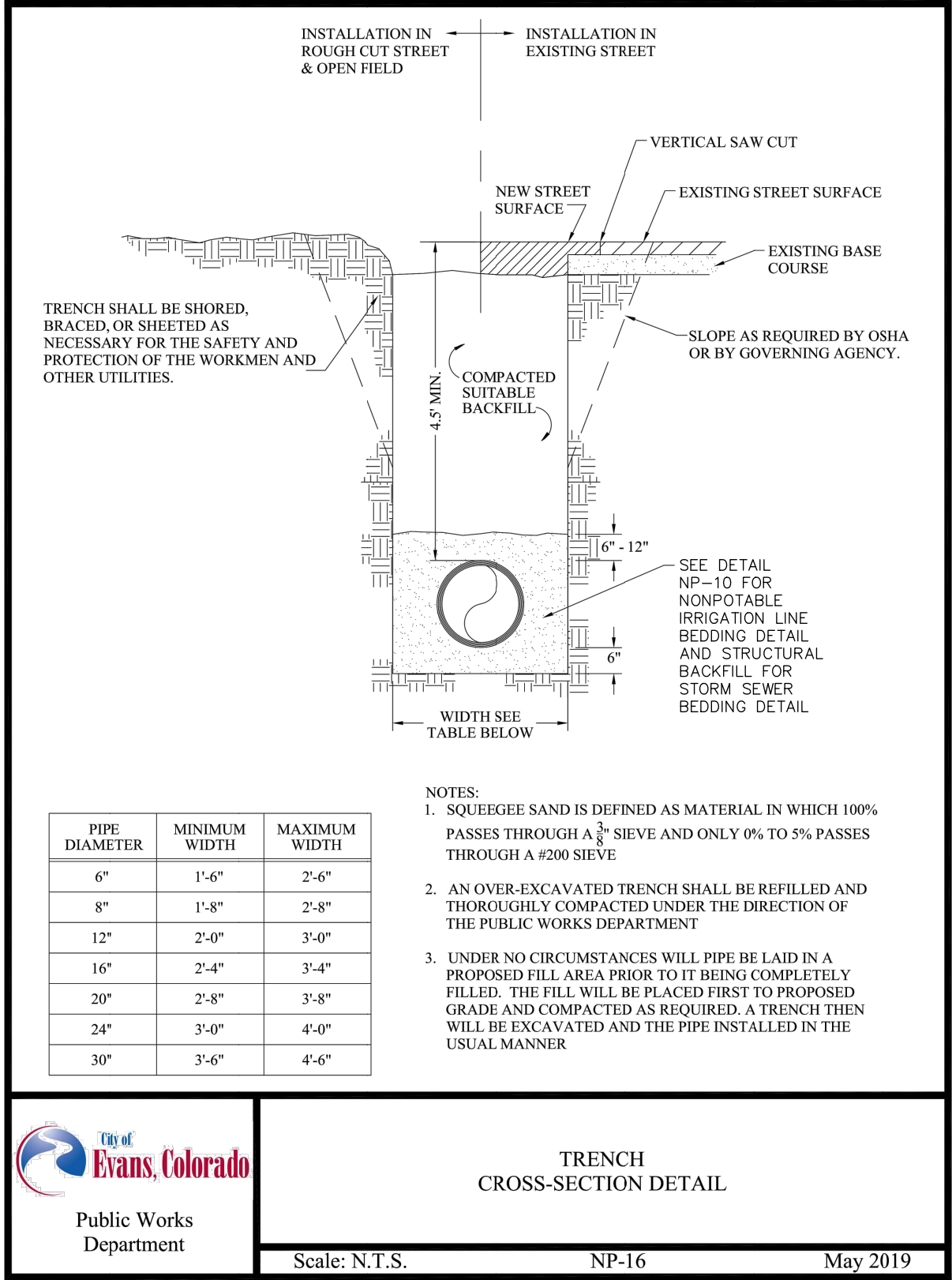
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Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A DETAILS			Project No.
	No Revisions:	Designer: T. Tuttle	Structure Numbers	37TH STREET 2A
Revised:	Detailer: J. Jensen			Drawing Number DT-004
Void:	Sheet Subset: DETAILS	Subset Sheets: 4 of 12		Sheet Number 22

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**Evans, Colorado**



**As Constructed**

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Void:

**37TH STREET WIDENING PHASE 2A DETAILS**

Designer: T. Tuttle

Detailer: J. Jensen

Sheet Subset: DETAILS

Structure Numbers

Subset Sheets: 5 of 12

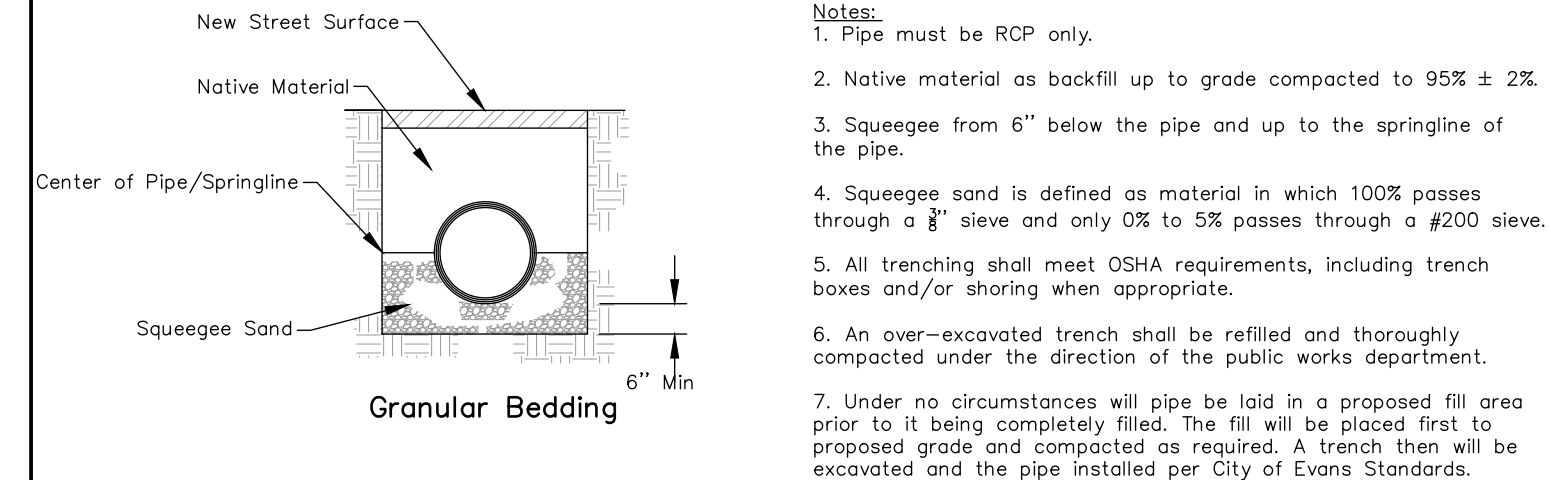
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37TH STREET 2A

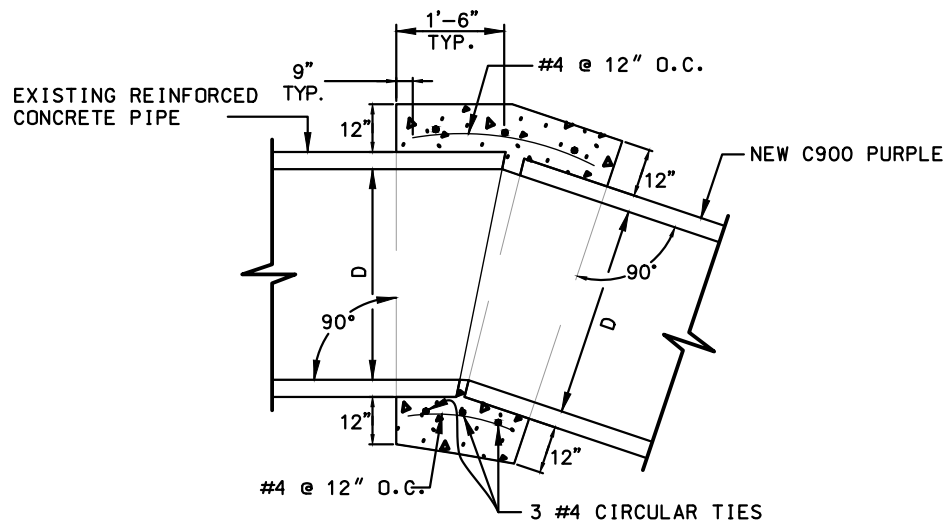
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Sheet Number 23

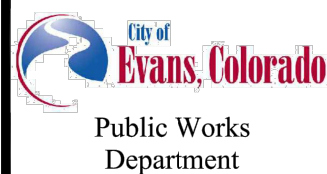
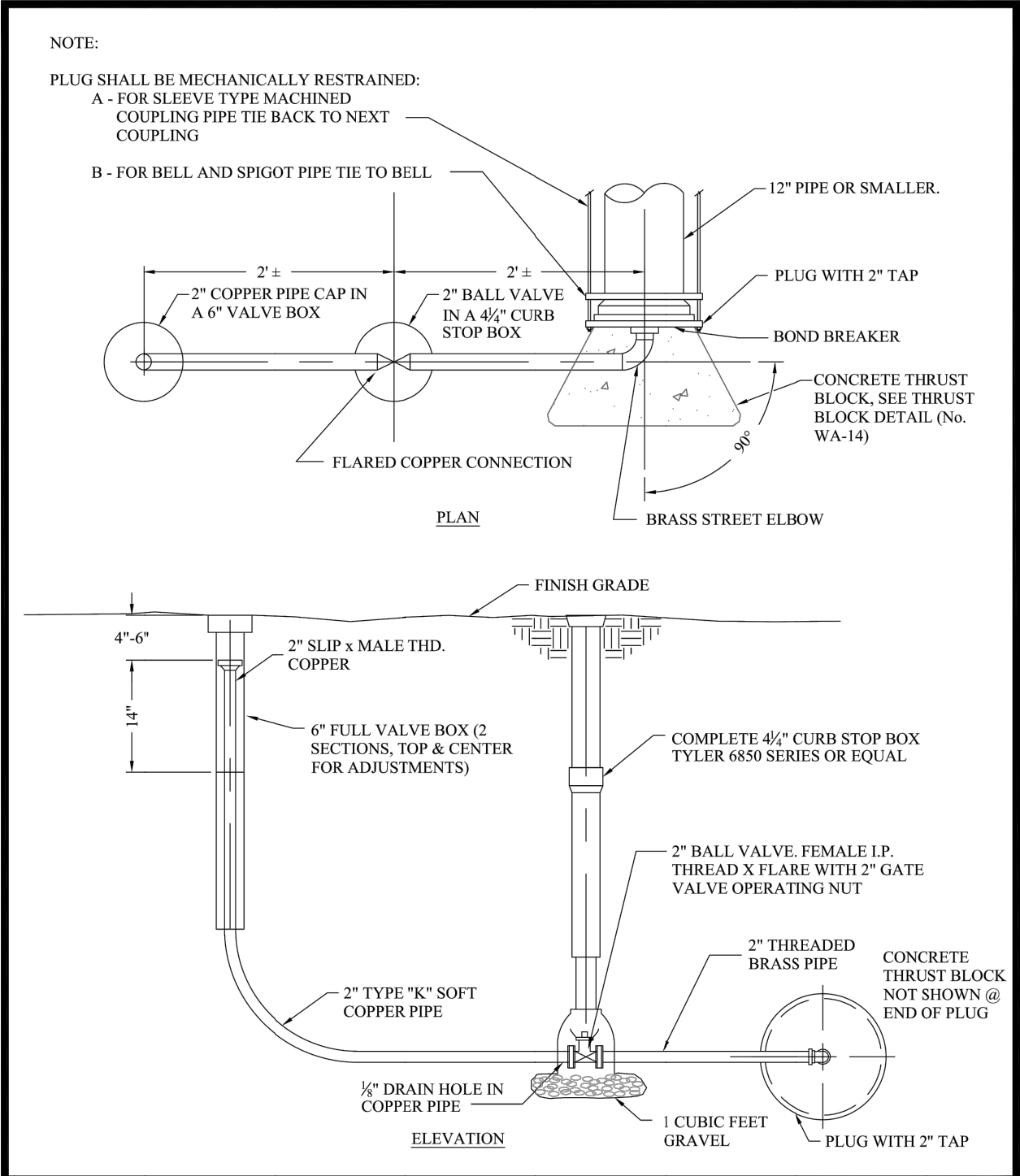
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STORM SEWER BACKFILL DETAIL  
NTS



CONCRETE COLLAR  
N.T.S.

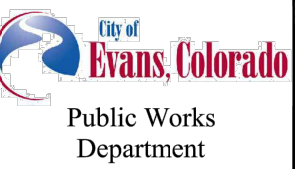
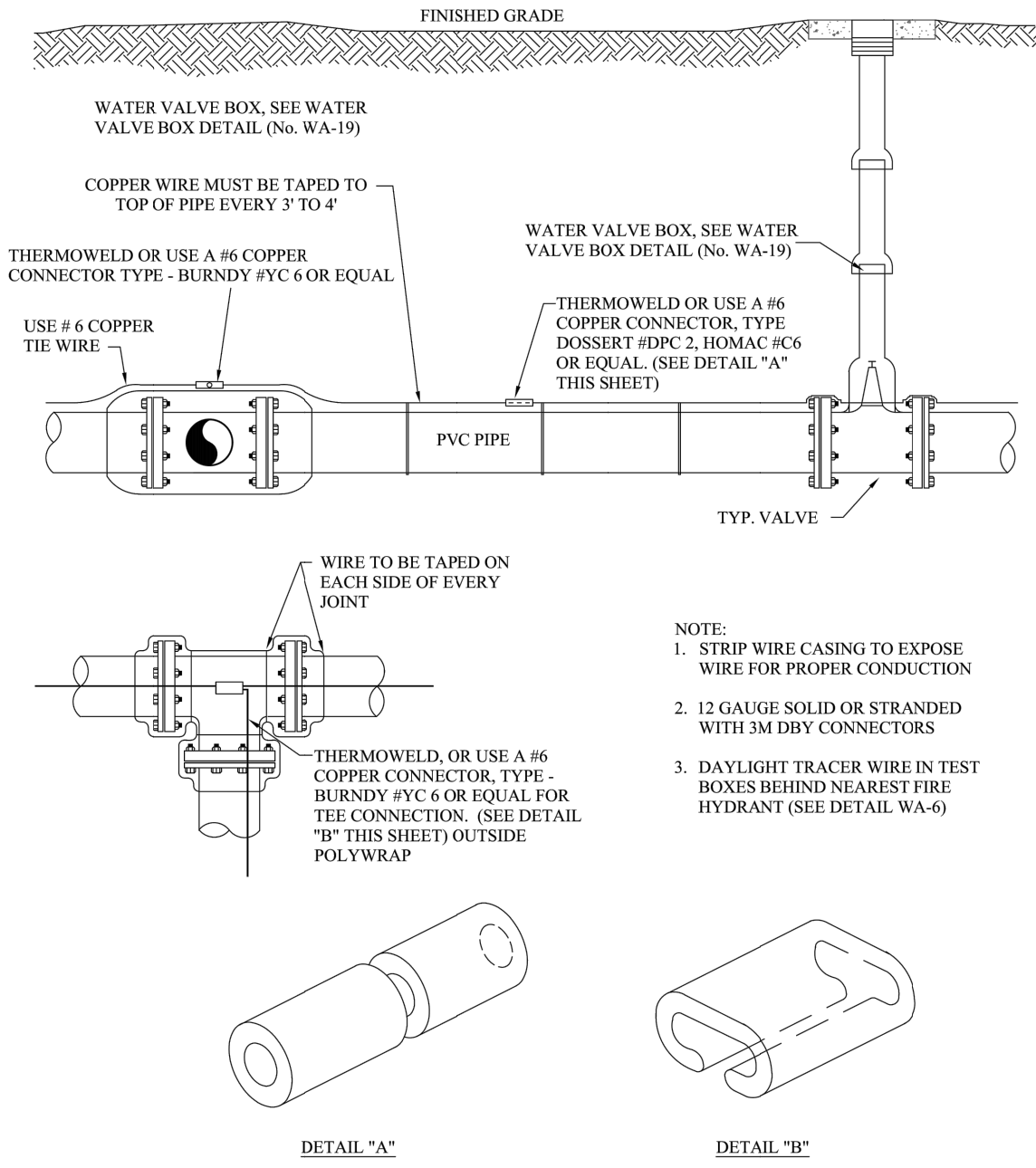


BLOWOFF ASSEMBLY  
INSTALLATION DETAIL  
FOR 12" & SMALLER PIPE

Scale: N.T.S. WA-2 May 2019

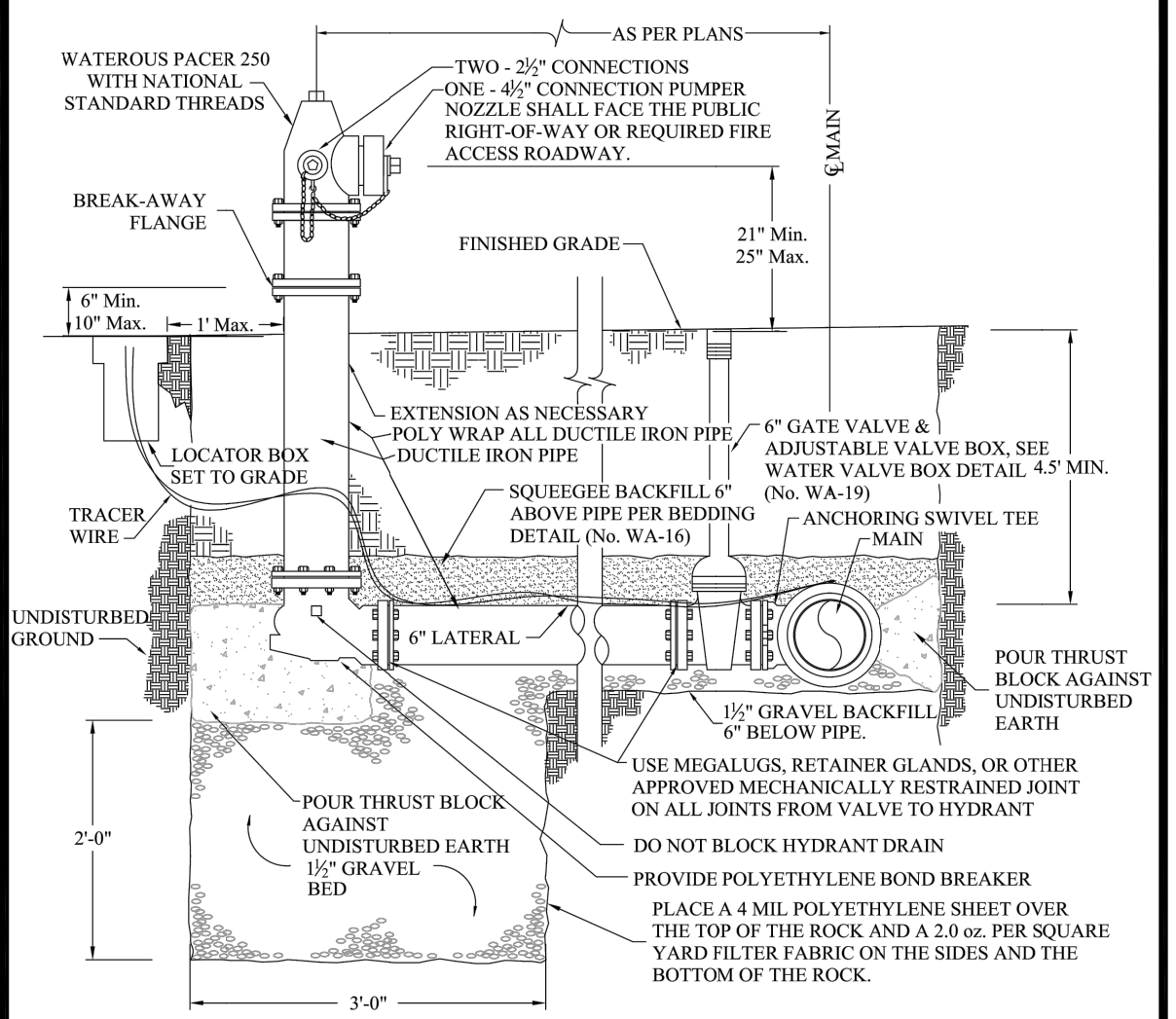
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Vert. Scale: NTS						Revised:		Detailer: J. Jensen		Sheet Number 24	
<div><div></div><div>12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350</div></div>						Void:		Sheet Subset: DETAILS		Subset Sheets: 6 of 12	
			<div><div></div><div>City of Evans, Colorado</div></div>			<div><div></div><div>FREEDOM Parkway</div></div>					

FOR CONSTRUCTION 2/24/2024



COPPER TRACER  
WIRE DETAIL  
ON PVC PIPE

Scale: N.T.S. WA-5 May 2019



- 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

Scale: N.T.S. WA-6 May 2019

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C:\Q-PROJECTS\WASTE PROJECTS\33001\EVANS\37TH ST AND 47TH AVE PLAN\2024\COMPUTER DESIGN FILES\DT P2A-001 DETAILS.DWG

Print Date: 2/12/2024

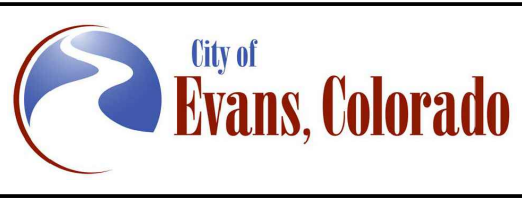
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Date	Comments	Initials



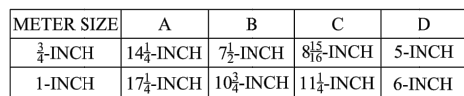
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 2A DETAILS		
Designer:	T. Tuttle	Structure
Detailer:	J. Jensen	Numbers
Sheet Subset:	DETAILS	Subset Sheets: 7 of 12

Project No.
37TH STREET 2A
Drawing Number DT-007
Sheet Number 25

FOR CONSTRUCTION 2/24/2024





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 7/8 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

May 2019

May 2019

Print Date: 2/12/2024		<div><div></div><div></div><div></div><div></div><div></div></div>	Sheet Revisions			<div><div><div></div></div><div>City of Evans, Colorado</div><div><div>FREEDOM Parkway</div></div></div>	As Constructed		37TH STREET WIDENING PHASE 2A DETAILS			Project No.		
File Name: DT P2A-001 DETAILS.DWG			Date	Comments	Initials		No Revisions:					37TH STREET 2A		
Horiz. Scale: NTS                      Vert. Scale: NTS							Revised:		Designer: T. Tuttle		Structure		Drawing Number DT-008	
<div><div><div></div></div><div>RockSol</div><div>Consulting Group, Inc.</div></div> <div><div>12076 Grant Street</div><div>Thornton, CO 80241</div><div>Ph: (303) 962-9300</div><div>Fax: (303) 962-9350</div></div>							Void:		Detailer: J. Jensen		Numbers			
							Sheet Subset: DETAILS		Subset Sheets: 8 of 12		Sheet Number 26			

Plot Date: 7/12/2024 7:42 AM Plotted By: Sarah Hamer  
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#4 STEEL REBAR  
ANCHOR BAR BENT  
OVER THE BEND  
- 2 REQUIRED

TRENCH  
BOTTOM

A

A'

TOP OF VERT. BEND

SECTION A-A'

ANCHOR BAR

OD + 12" MIN.

6" FROM BOTTOM OF ELBOW

MINIMUM LENGTH OF EMBEDMENT

3" MIN.

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= 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			45.5
22			50.0
24			59.5
30			
36			

NOTES FOR DRAWINGS:  
1. AT DEAD ENDS, WRAP FITTINGS WITH TAR PAPER, FELT, OR HEAVY KRAFT PAPER TO PROVIDE BOND BREAK BETWEEN CONCRETE AND FITTINGS  
2. 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  
3. 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  
4. 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  
5. PIPE INSTALLED UNDER CONDITIONS DIFFERENT FROM THOSE NORMALLY ENCOUNTERED SHALL REQUIRE THRUST BLOCKS DESIGNED FOR THOSE PARTICULAR CONDITIONS



Public Works  
Department

THRUST BLOCK DETAIL  
SHEET 2 OF 3

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

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	SPECIAL DESIGN		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.  
-  $F = \frac{150}{3000} = 0.05$   
- TABULATED VALUE = 7.1 SQ. FT.  
-  $0.05 * 7.1 = 3.56$  OR ~ 4 SQ. FT. OR 2 FT. LONG BY 2 FT. HIGH

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



Public Works  
Department

THRUST BLOCK DETAIL  
SHEET 3 OF 3

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

Print Date: 2/12/2024


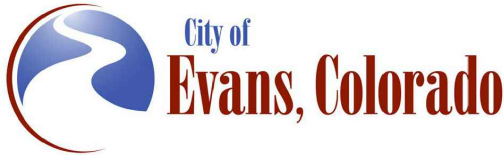
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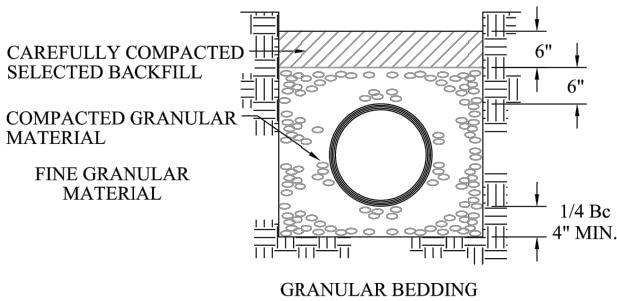
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DETAILS

Designer: T. Tuttle  
Detailer: J. Jensen  
Sheet Subset: DETAILS

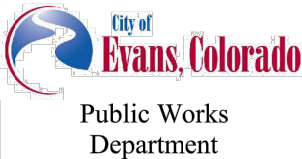
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Subset Sheets: 9 of 12

Project No.  
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Drawing Number DT-009  
Sheet Number 27

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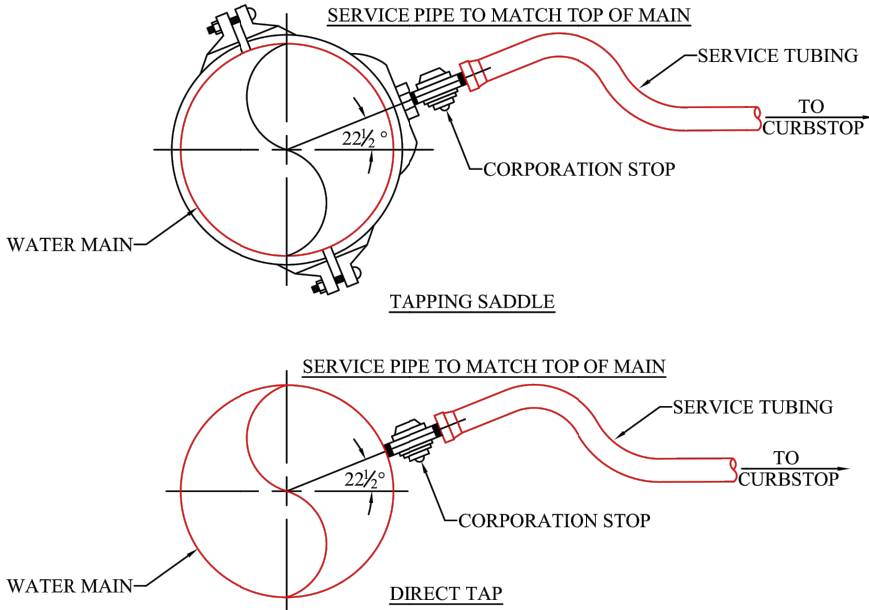


- NOTES:
1. MINIMUM DENSITY FOR CAREFULLY COMPACTED SELECT BACKFILL SHALL BE 95% OF MAXIMUM OR AS SPECIFIED FOR THE TRENCH BACKFILL - WHICHEVER IS GREATER
  2. COMPACT GRANULAR MATERIAL BY SLICING WITH A SHOVEL AROUND PIPE. WHEN BEDDING IS 6" OVER PIPE, COMPACT WITH VIBRATING COMPACTOR



WATER LINE  
BEDDING DETAIL

Scale: N.T.S.                      WA-16                      May 2019

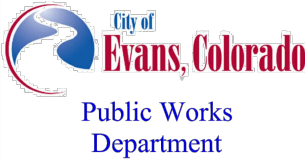


TYPE OF MAIN LINE PIPE AND SIZE OF TAP

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

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37TH STREET WIDENING PHASE 2A  
DETAILS

Designer: T. Tuttle

Detailer: J. Jensen

Sheet Subset: DETAILS

Structure Numbers

Subset Sheets: 10 of 12

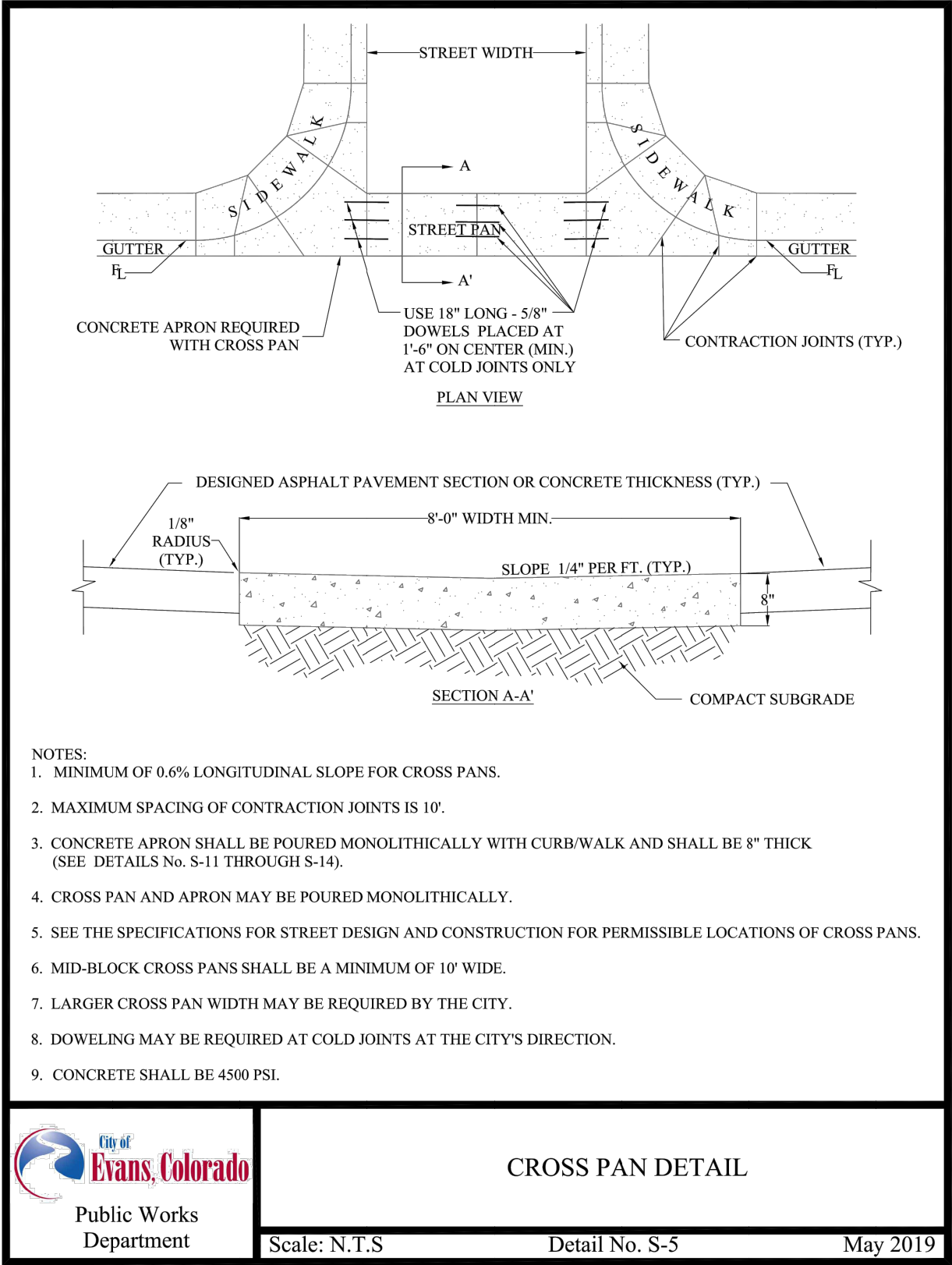
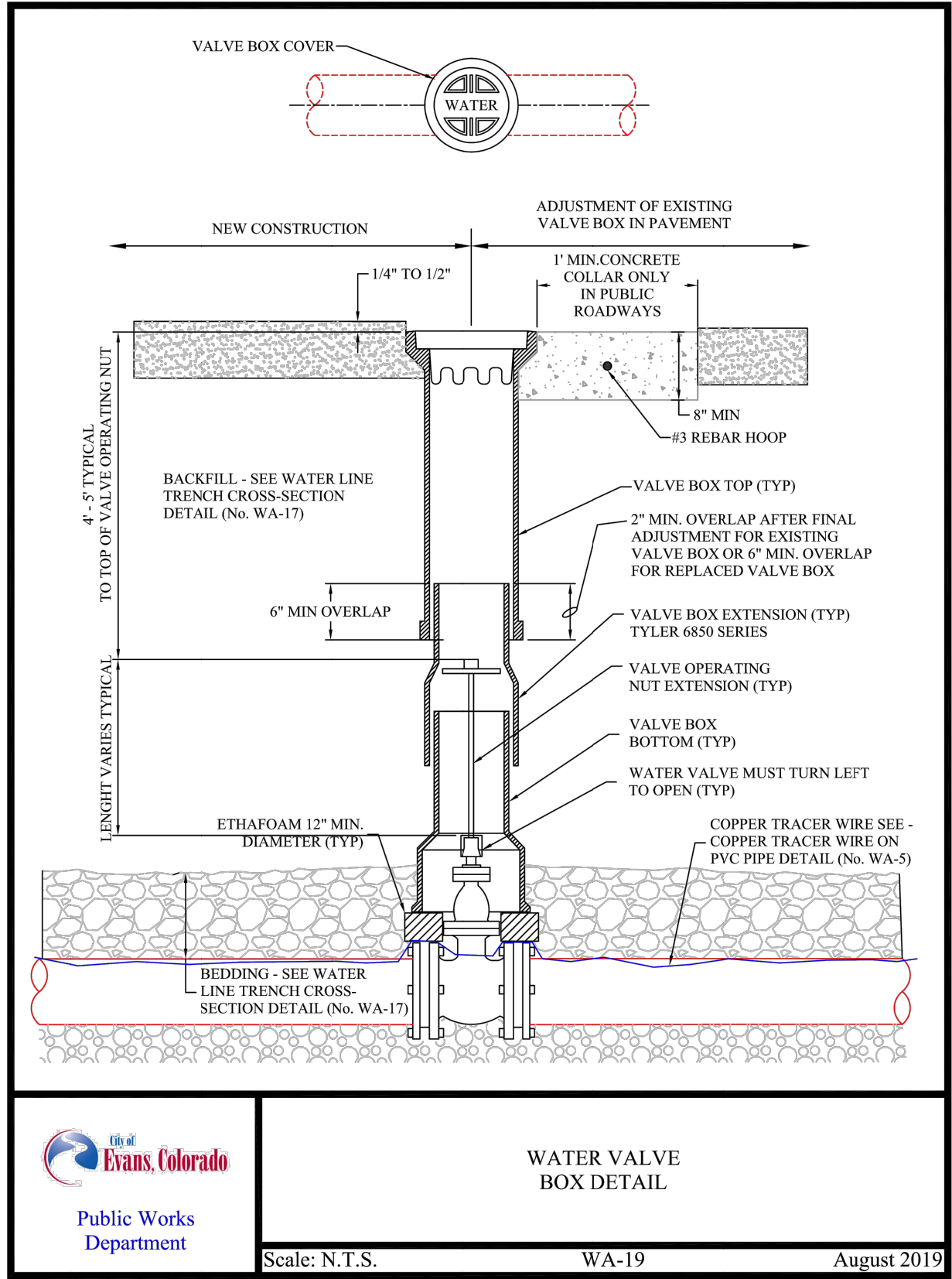
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37TH STREET 2A

Drawing Number DT-010

Sheet Number 28





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FREEDOM Parkway

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37TH STREET WIDENING PHASE 2A DETAILS

Designer: T. Tuttle

Detailer: J. Jensen

Sheet Subset: DETAILS

Structure Numbers

Subset Sheets: 11 of 12

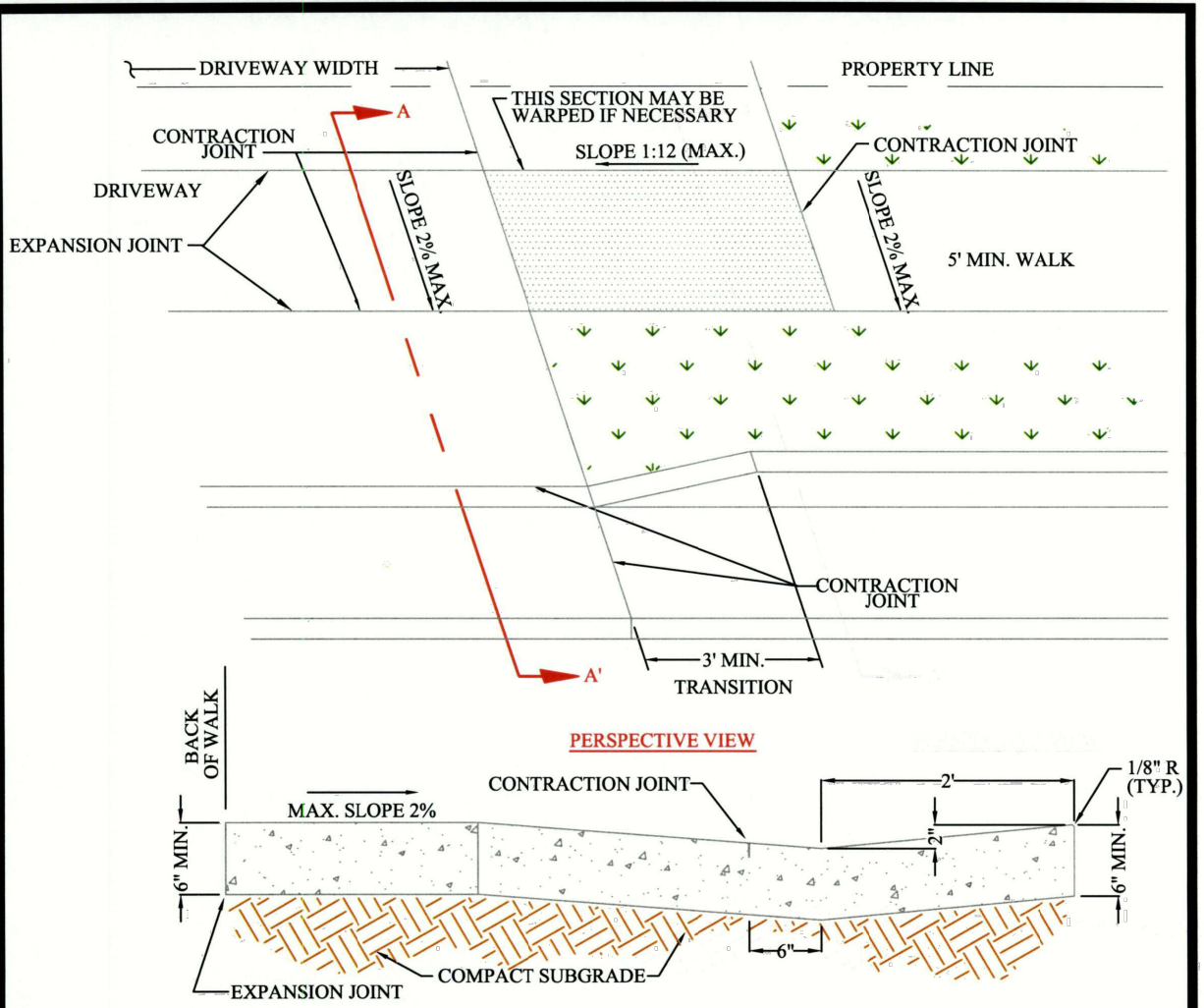
Project No.

37TH STREET 2A

Drawing Number DT-011

Sheet Number 29

FOR CONSTRUCTION 2/24/2024



- NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT EACH END OF WARPED SECTION & SHOULD BE EVENLY SPACED.

2. APPLY BROOM FINISH TO SURFACE.

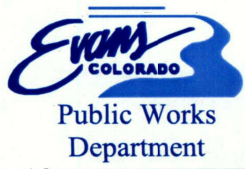
3. DRIVEWAY SECTION SHALL BE 6" THICK ON ALL RESIDENTIAL, MULTIFAMILY RESIDENTIAL, & 8" THICK ON ALL COMMERCIAL, INDUSTRIAL & ALLEY DRIVEWAYS.

4. DRIVEWAY WIDTHS: 10' (MIN.) & 20' (MAX.)

5. DRIVEWAY WIDTHS FOR COMMERCIAL/ INDUSTRIAL AREAS AS APPROVED BY THE CITY.

6. SHOW DIMENSIONS OF DRIVEWAY ON DETAILED CONSTRUCTION PLANS.

7. RETROFIT DRIVE APPROACHES SHALL MATCH EXISTING CONDITIONS EXCEPT CONCRETE THICKNESSES SHALL CONFORM TO THIS DETAIL.



DRIVEWAY APPROACH DETAIL  
DETACHED SIDEWALK  
FOR VERTICAL CURB & GUTTER

Scale: N.T.S      Detail No. S-18      April 2004

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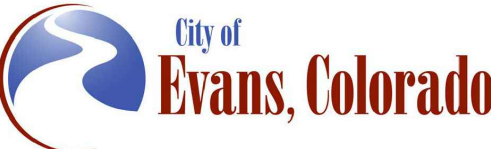
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No Revisions:			37TH STREET 2A
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Void:	Detailer: J. Jensen		
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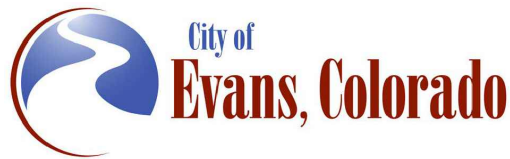
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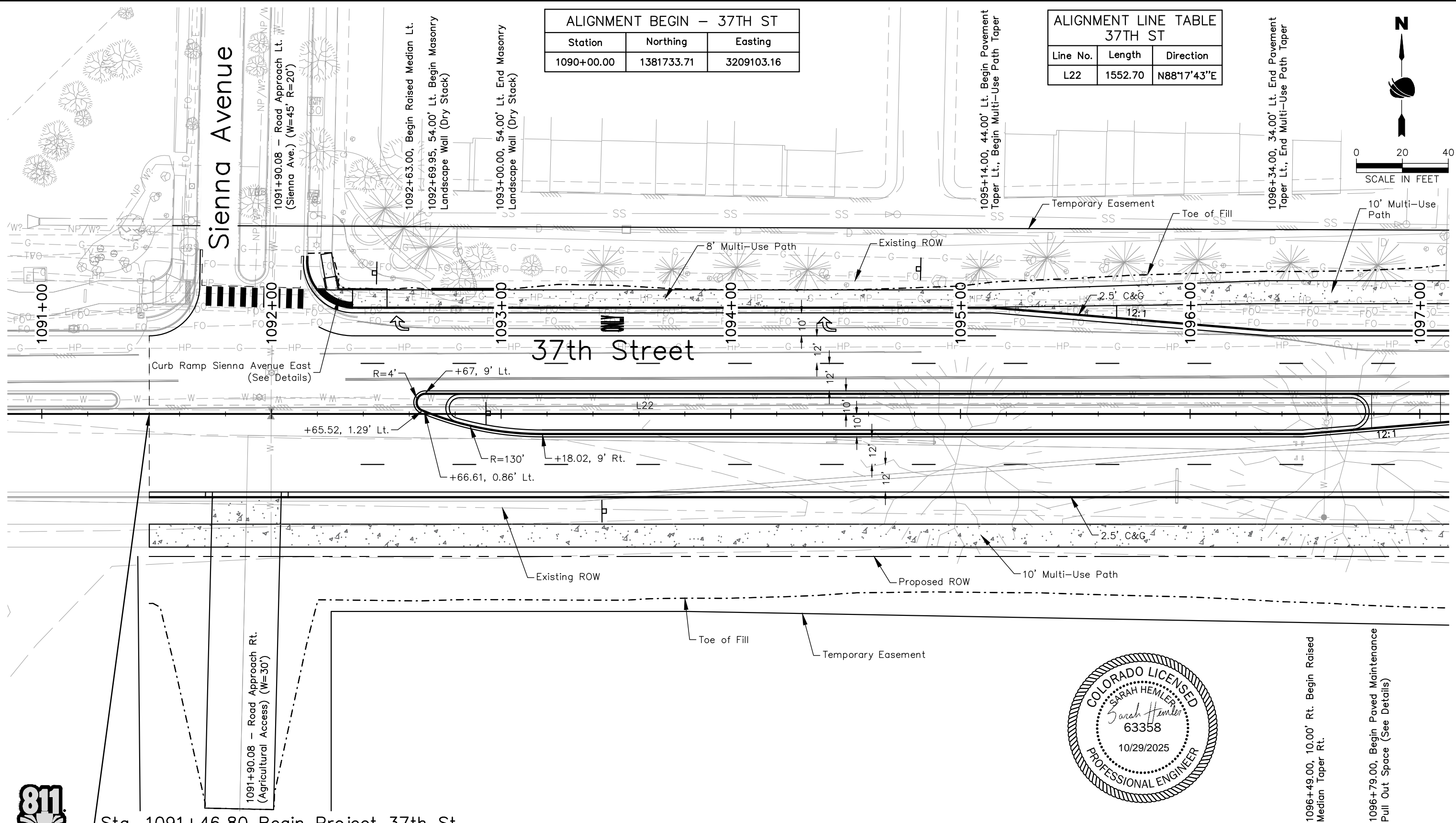
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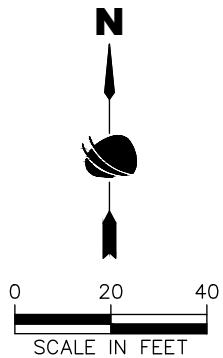
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Revised:	Designer: T. Tuttle	Structure		Drawing Number PLAN-001
Void:	Detailer: S. Hemler	Numbers		Sheet Number 31
	Sheet Subset: PLAN	Subset Sheets: 1 of 5		

NOTE: All curb and gutter call out are to FL of the gutter



ALIGNMENT BEGIN - 37TH ST		
Station	Northing	Easting
1090+00.00	1381733.71	3209103.16

ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L22	1552.70	N88°17'43"E



Sta. 1091+46.80 Begin Project 37th St.,  
Match Existing (Previous Construction 37th St. Phase 1) **37TH STREET PLAN**

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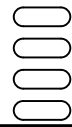


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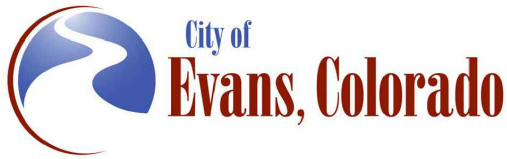


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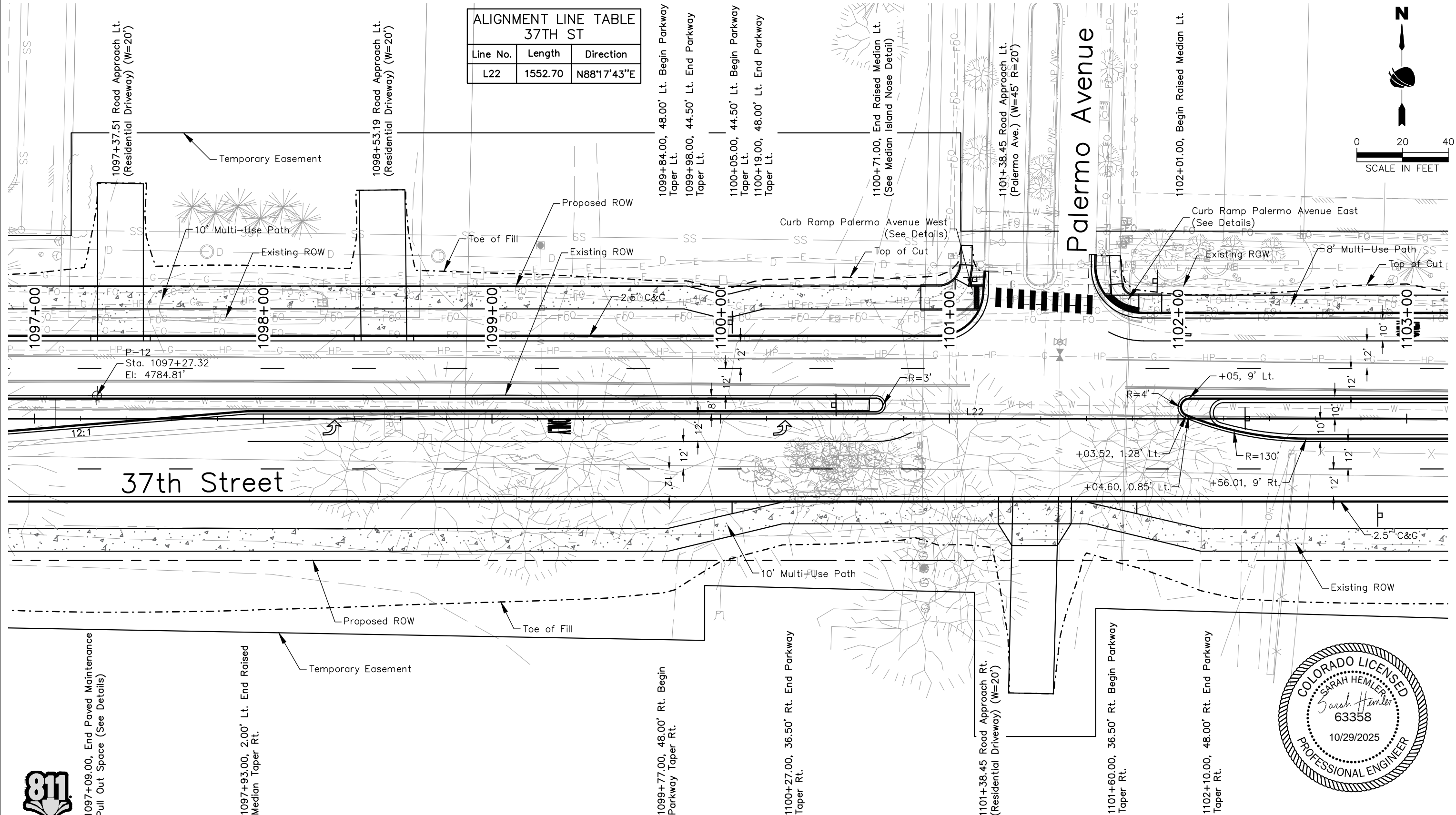
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Revised:		Detailer: S. Hemler	Structure Numbers	Drawing Number PLAN-002
Void:		Sheet Subset: PLAN	Subset Sheets: 2 of 5	Sheet Number 32



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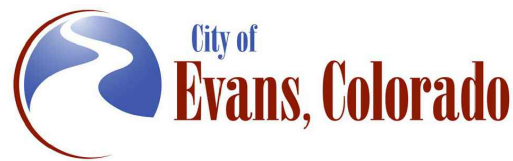
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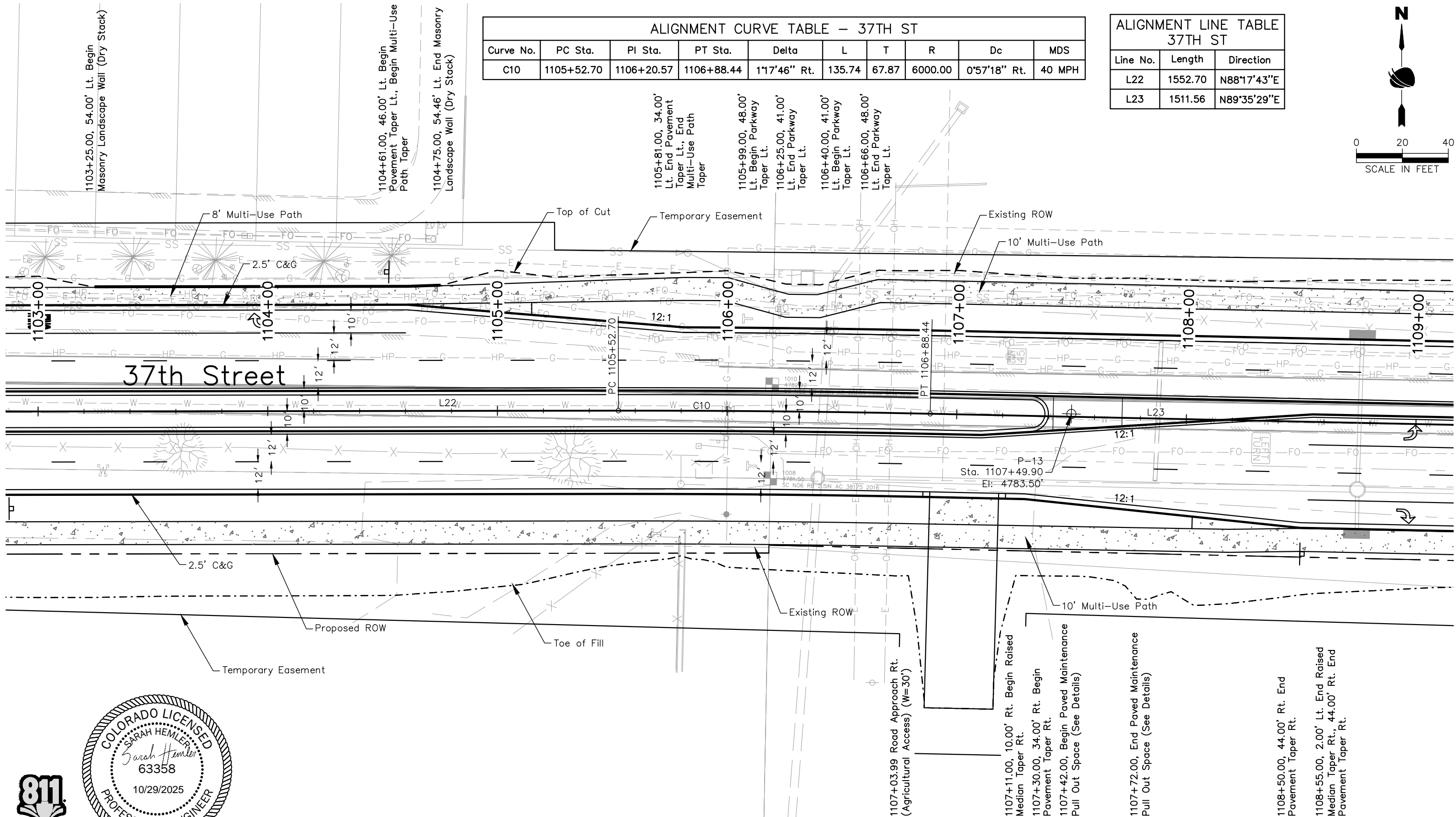
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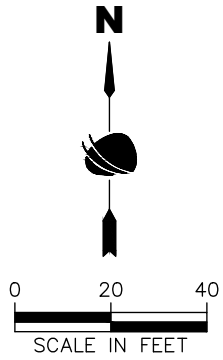


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No Revisions:		Designer: T. Tuttle		37TH STREET 2A
Revised:		Detailer: S. Hemler	Structure Numbers	Drawing Number PLAN-003
Void:		Sheet Subset: PLAN	Subset Sheets: 3 of 5	Sheet Number 33



ALIGNMENT CURVE TABLE – 37TH ST									
Curve No.	PC Sta.	PI Sta.	PT Sta.	Delta	L	T	R	Dc	MDS
C10	1105+52.70	1106+20.57	1106+88.44	1°17'46" Rt.	135.74	67.87	6000.00	0°57'18" Rt.	40 MPH

ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L22	1552.70	N88°17'43"E
L23	1511.56	N89°35'29"E



37TH STREET PLAN

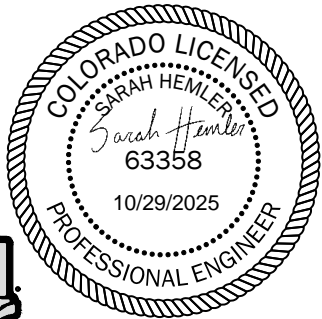
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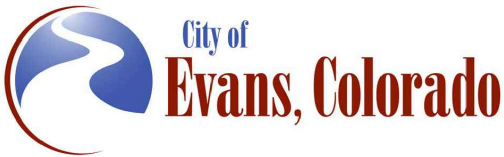
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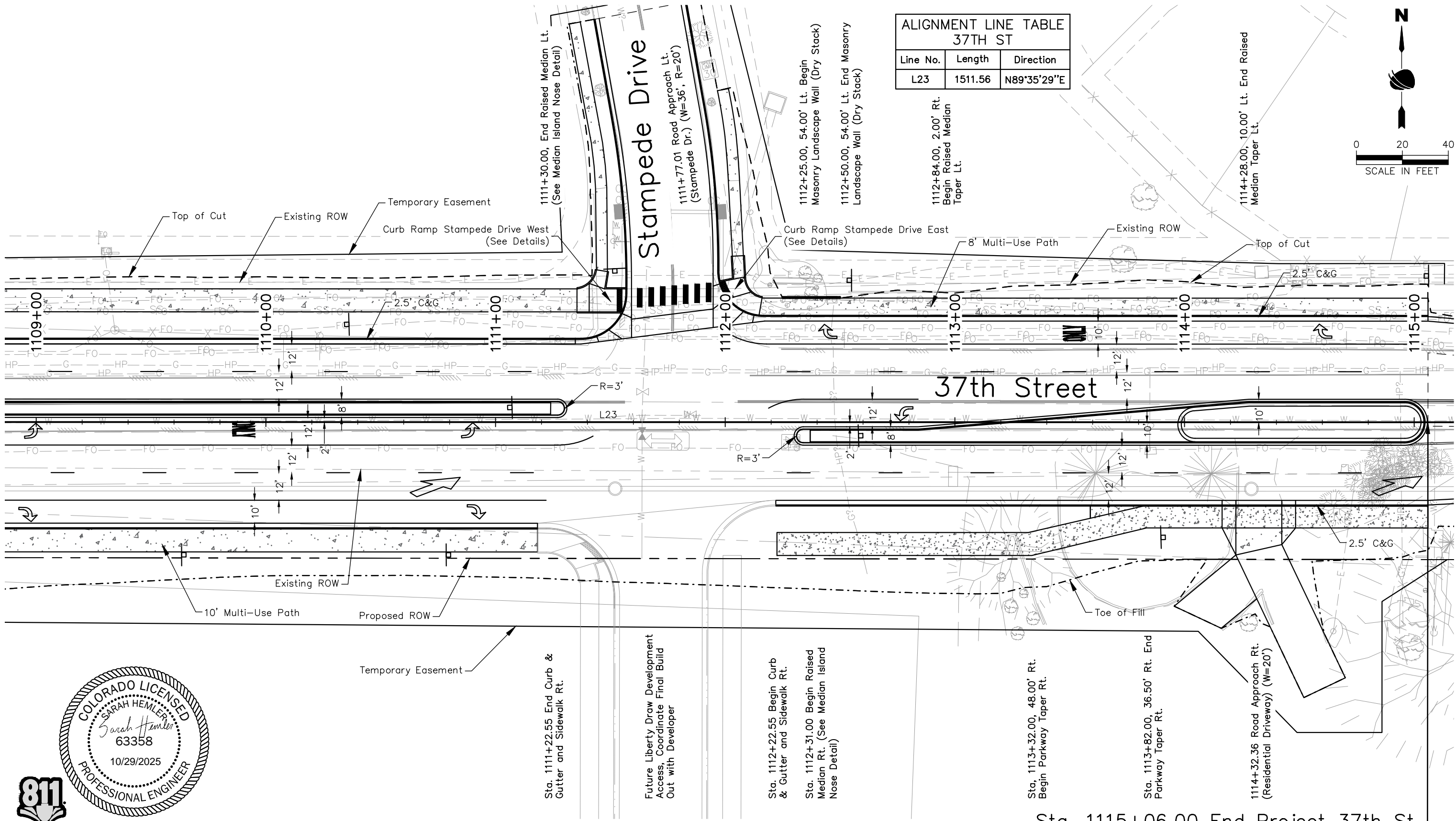
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Ph: (303) 962-9300  
Fax: (303) 962-9350

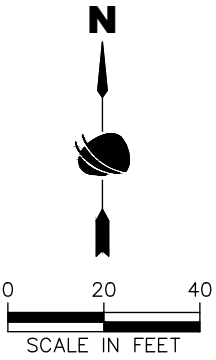
Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A ROADWAY PLAN		Project No.
No Revisions:				37TH STREET 2A
Revised:		Designer: T. Tuttle	Structure Numbers	Drawing Number PLAN-004
Void:		Detailer: S. Hemler		
		Sheet Subset: PLAN	Subset Sheets: 4 of 5	Sheet Number 34



ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L23	1511.56	N89°35'29"E



37TH STREET PLAN

FOR CONSTRUCTION 2/24/2024



Plot Date: 2/12/2024 8:04 AM Plotted By: Sarah Hemler  
C:\Q-PROJECTS\WYOMING PROJECTS\33001\EVANS 37TH ST AND 47TH AVE PLAN\320 COMPUTER DESIGN FILES\P2 - PHASE 2A\802 SHEET FILES\PLAN P2A-001 ROADWAY PLAN.DWG

1115+06.00, 44.00' Lt. Begin Pavement Taper  
Lt., End Multi-Use Path Lt.

Temporary Easement

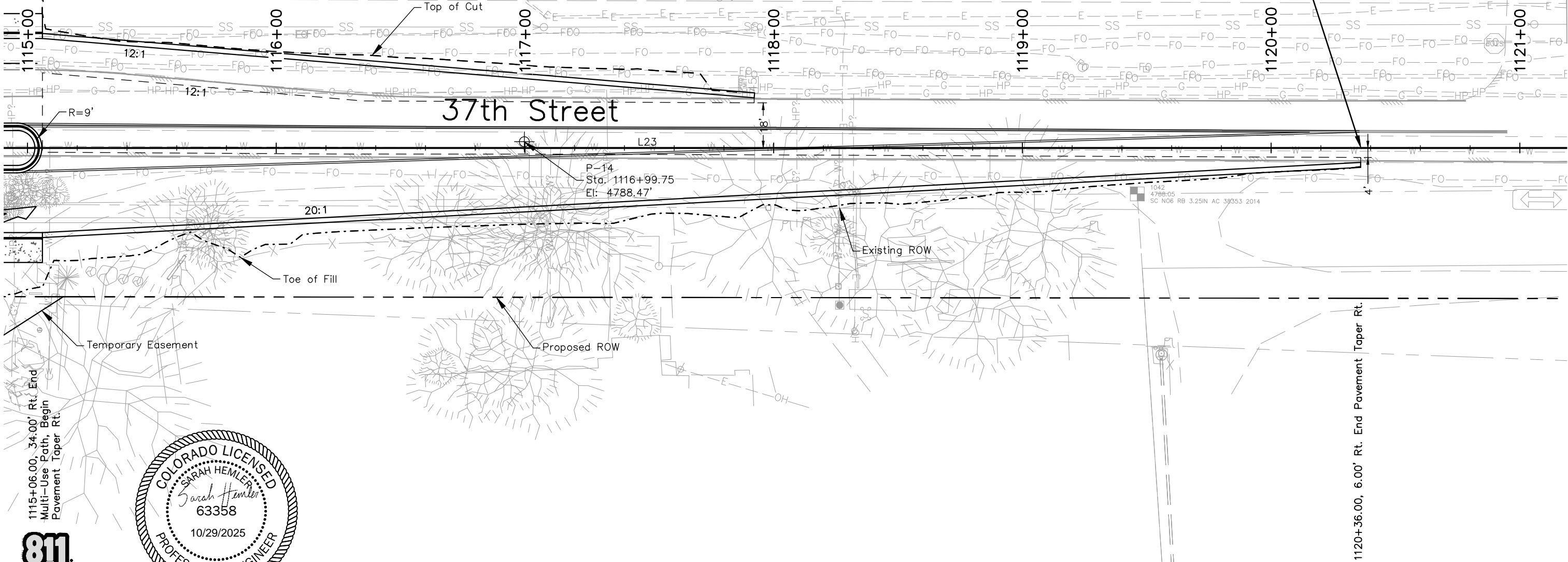
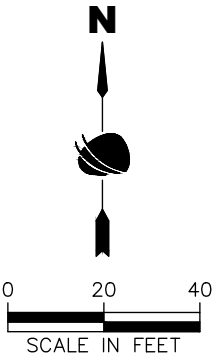
Existing ROW

1117+85.00, 20.00' Lt. End Pavement Taper Lt.

ALIGNMENT LINE TABLE 37TH ST		
Line No.	Length	Direction
L23	1511.56	N89°35'29"E

ALIGNMENT END - 37TH ST		
Station	Northing	Easting
1122+00.00	1381793.19	3212302.41

Sta. 1120+36.00 End Approach to Project,  
Match Existing



1115+06.00, 34.00' Rt. End  
Multi-Use Path, Begin  
Pavement Taper Rt.

Temporary Easement

Proposed ROW

1120+36.00, 6.00' Rt. End Pavement Taper Rt.

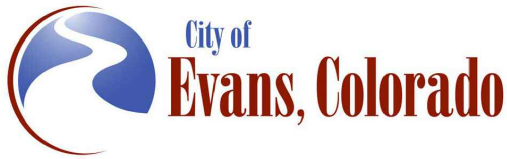


37TH STREET PLAN

NOTE: All curb and gutter call out are to FL of the gutter

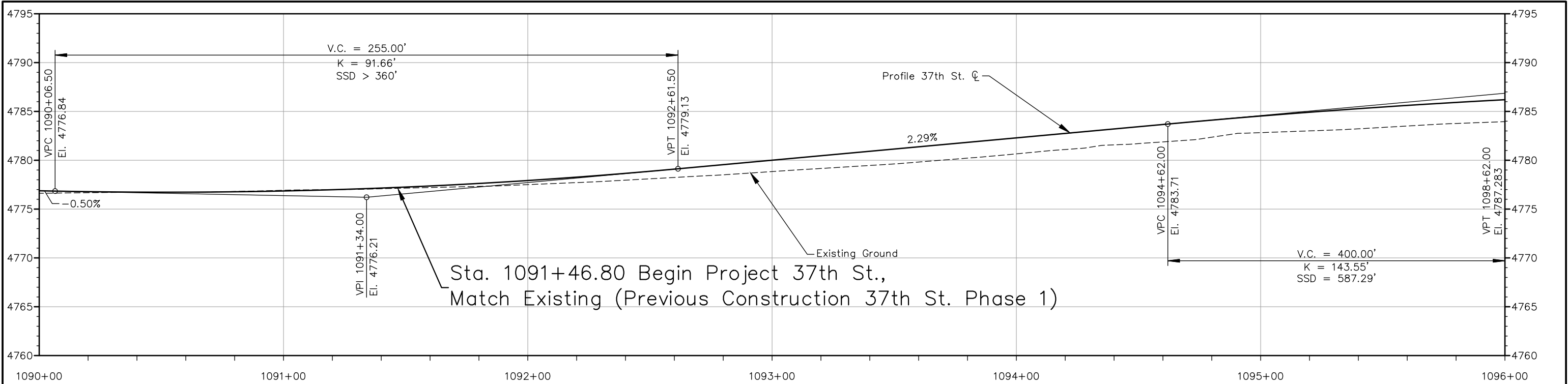
Print Date: 2/12/2024	
File Name: PLAN P2A-001 ROADWAY PLAN.DWG	
Horiz. Scale: As Noted	Vert. Scale: N/A
	12076 Grant Street
	Thornton, CO 80241
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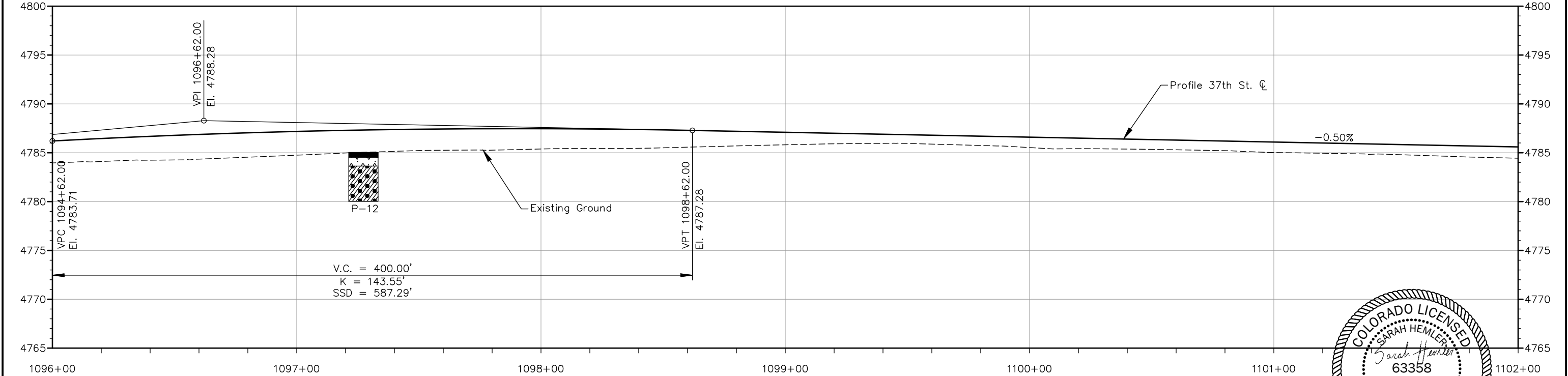
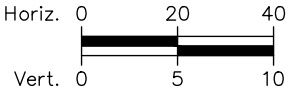


As Constructed	37TH STREET WIDENING PHASE 2A ROADWAY PLAN			Project No.
	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure		Drawing Number PLAN-005
Void:	Detailer: S. Hemler	Numbers		Sheet Number 35
	Sheet Subset: PLAN	Subset Sheets: 5 of 5		

FOR CONSTRUCTION 2/24/2024



37TH STREET PROFILE



37TH STREET PROFILE



Know what's below.  
Call before you dig.

LITHOLOGY

- Asphalt Pavement
- Native - CLAY, sandy
- Fill - SAND, clayey to silty



Print Date: 2/12/2024

File Name: PR P2A-001 ROADWAY PROFILE.DWG

Horiz. Scale: As Noted    Vert. Scale: As Noted

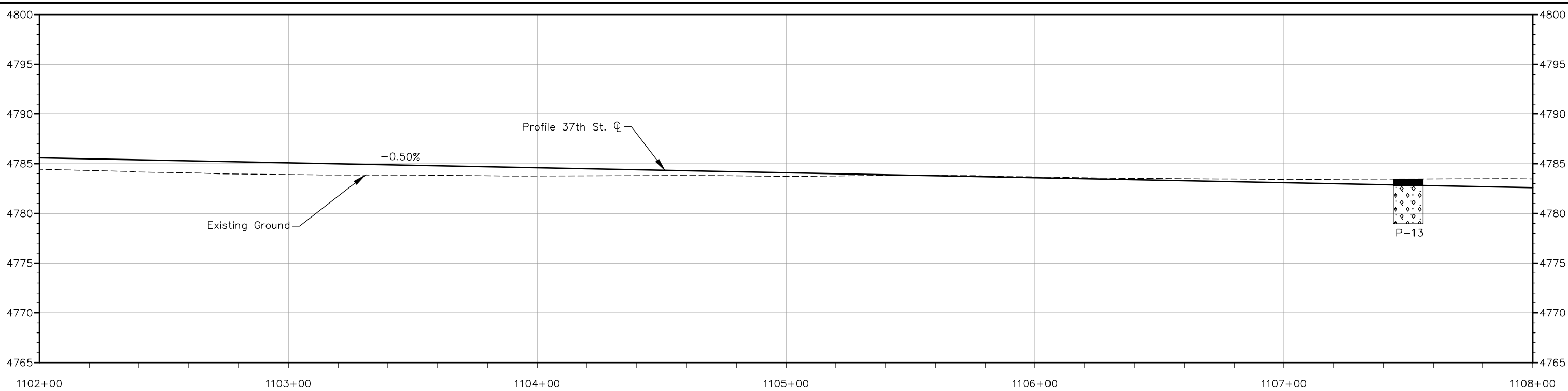
12076 Grant Street  
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Sheet Revisions		
Date	Comments	Initials

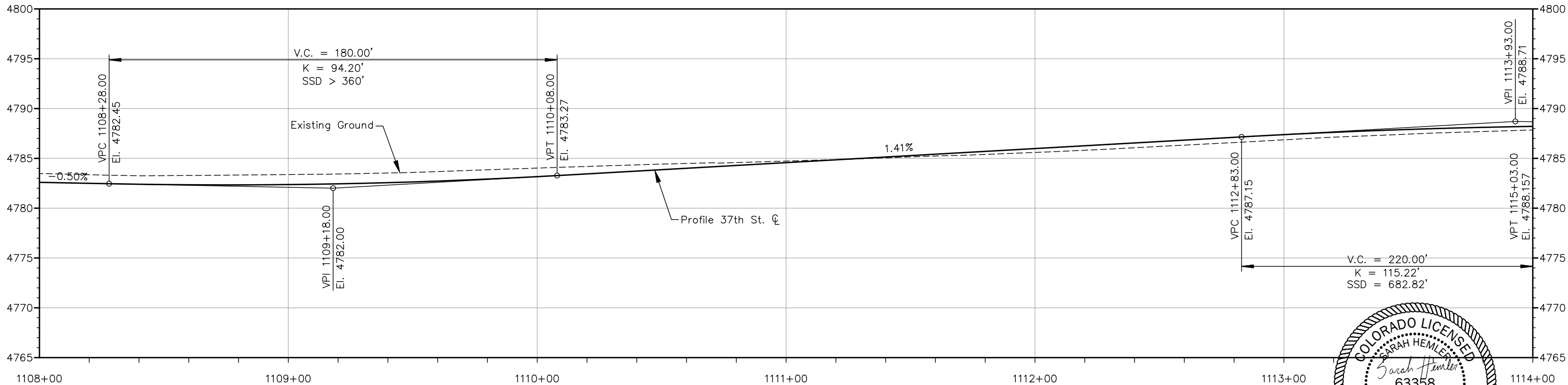
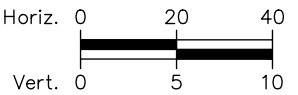
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	No Revisions:			37TH STREET 2A
	Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number PR-001
Void:	Sheet Subset: PROFILE	Subset Sheets: 1 of 3		Sheet Number 36

FOR CONSTRUCTION 2/24/2024

Plot Date: 2/12/2024 8:04 AM Plotted By: Sarah Hemler  
C:\Q-PROJECTS\VTMTE PROJECTS\33001 EVANS 37TH ST AND 47TH AVE PLAN\20 COMPUTER DESIGN FILES\PR P2 - PHASE 2A\802 SHEET FILES\PR P2A-001 ROADWAY PROFILE.DWG



37TH STREET PROFILE



37TH STREET PROFILE



LITHOLOGY

- Asphalt Pavement
- Fill - SAND, clayey to silty



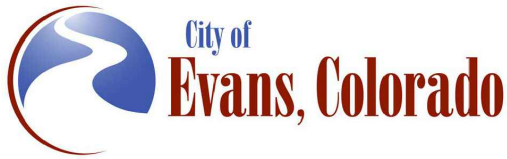
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File Name: PR P2A-001 ROADWAY PROFILE.DWG

Horiz. Scale: As Noted    Vert. Scale: As Noted

12076 Grant Street  
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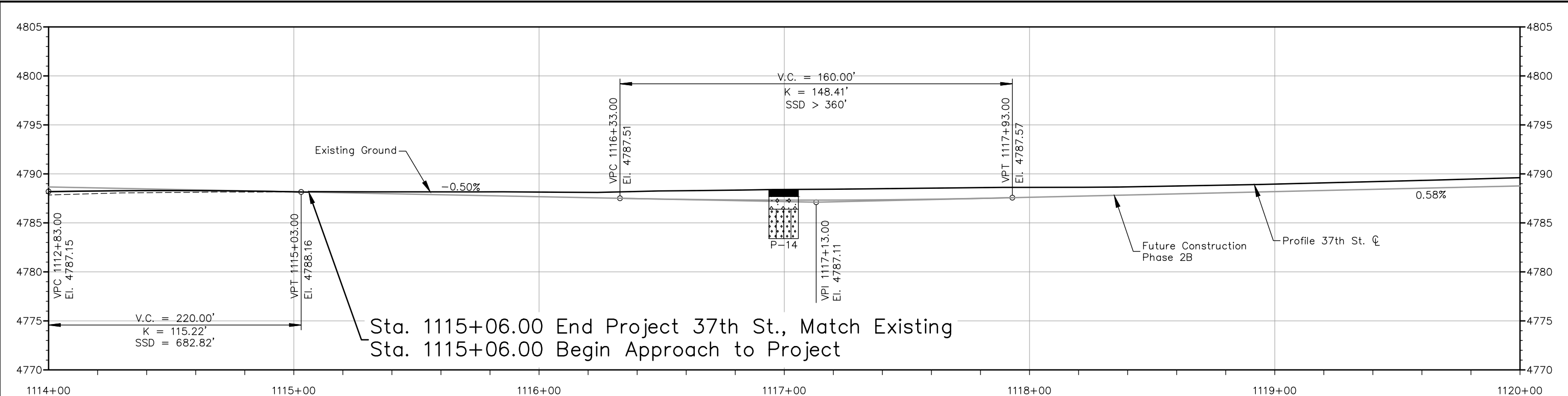
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Date	Comments	Initials



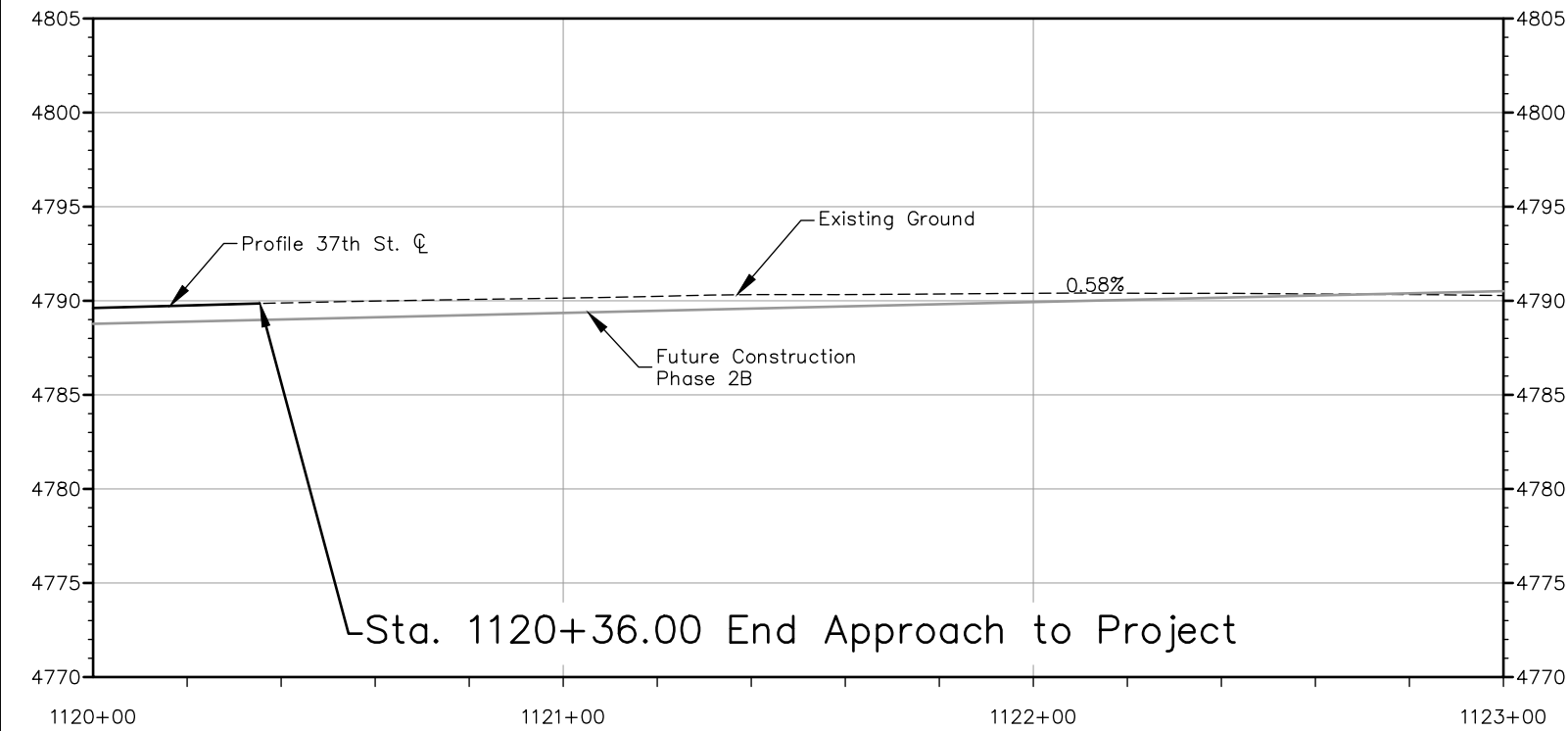
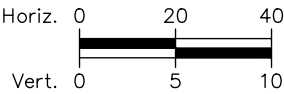
As Constructed	37TH STREET WIDENING PHASE 2A ROADWAY PROFILE			Project No.
	No Revisions:	Designer: T. Tuttle	Structure Numbers	37TH STREET 2A
Revised:	Detailer: S. Hemler			Drawing Number PR-002
Void:	Sheet Subset: PROFILE	Subset Sheets: 2 of 3		Sheet Number 37

FOR CONSTRUCTION 2/24/2024






37TH STREET PROFILE



37TH STREET PROFILE





Know what's below.  
Call before you dig.

LITHOLOGY

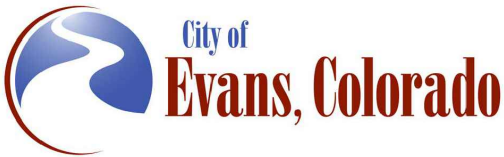
- Asphalt Pavement
- Fill - SAND, clayey to silty
- Native - SAND, silty

Print Date: 2/12/2024		<div>Sheet Revisions</div> <table><tr><th>Date</th><th>Comments</th><th>Initials</th></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><tr><td></td><td></td><td></td></tr></table>		Date	Comments	Initials													<div>As Constructed</div> <div>No Revisions:</div> <div>Revised:</div> <div>Void:</div>		<div>37TH STREET WIDENING PHASE 2A ROADWAY PROFILE</div> <div>Designer: T. Tuttle Detailer: S. Hemler Sheet Subset: PROFILE</div> <div>Structure Numbers</div> <div>Subset Sheets: 3 of 3</div>			<div>Project No.</div> <div>37TH STREET 2A</div> <div>Drawing Number PR-003</div> <div>Sheet Number 38</div>	
Date	Comments			Initials																					
File Name: PR P2A-001 ROADWAY PROFILE.DWG																									
Horiz. Scale: As Noted      Vert. Scale: As Noted																									
<div><div>12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350</div></div>																									

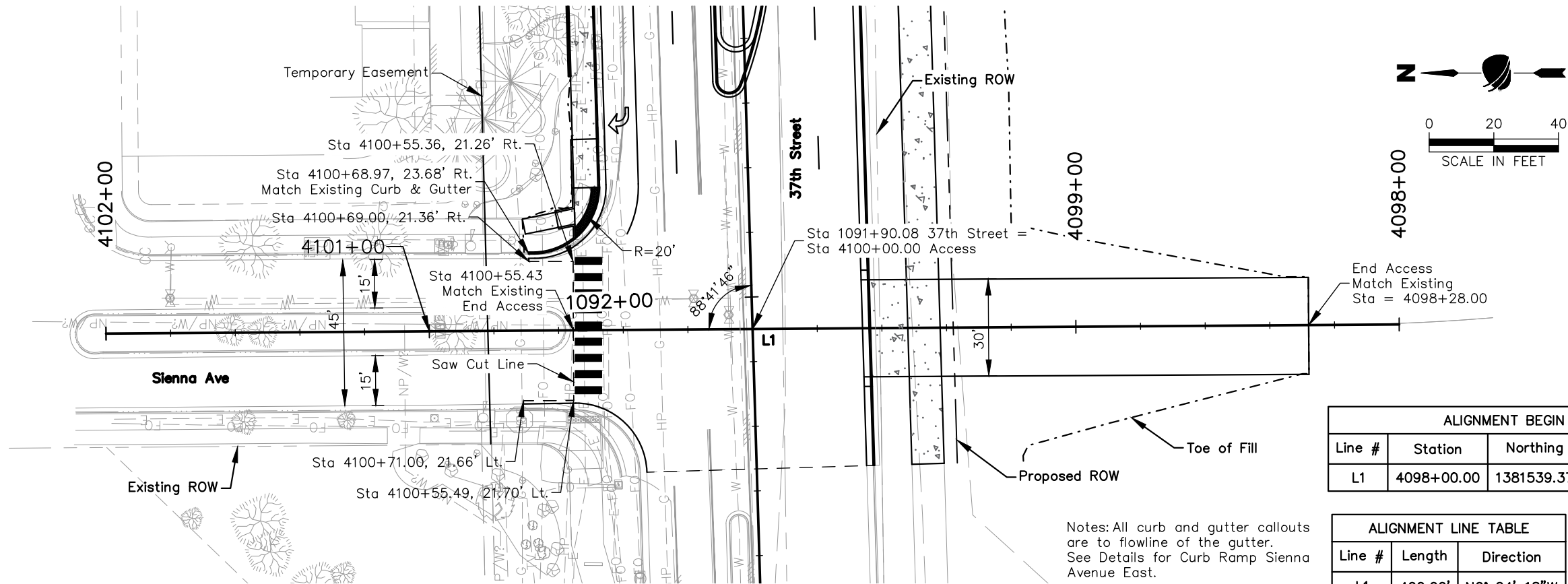


City of  
Evans, Colorado





Plot Date: 2/6/2024 7:45 AM Plotted By: Sarah Hemler  
C:\Q-PROJECTS\WYOMING PROJECTS\33001 LEVANS 37TH ST AND 47TH AVE PLAN\2024 COMPUTER DESIGN FILES\2 - PHASE 2A\2024 SHEET FILES\RA P2A-001 ROAD APPROACH.DWG



PLAN VIEW ACCESS STA 1091+90.08 LT. & RT.

ROAD APPROACH (Sienna Avenue)  
1091+90.08 LT., SKEW 88°41'46" LT.  
(W = 45', R = 20')

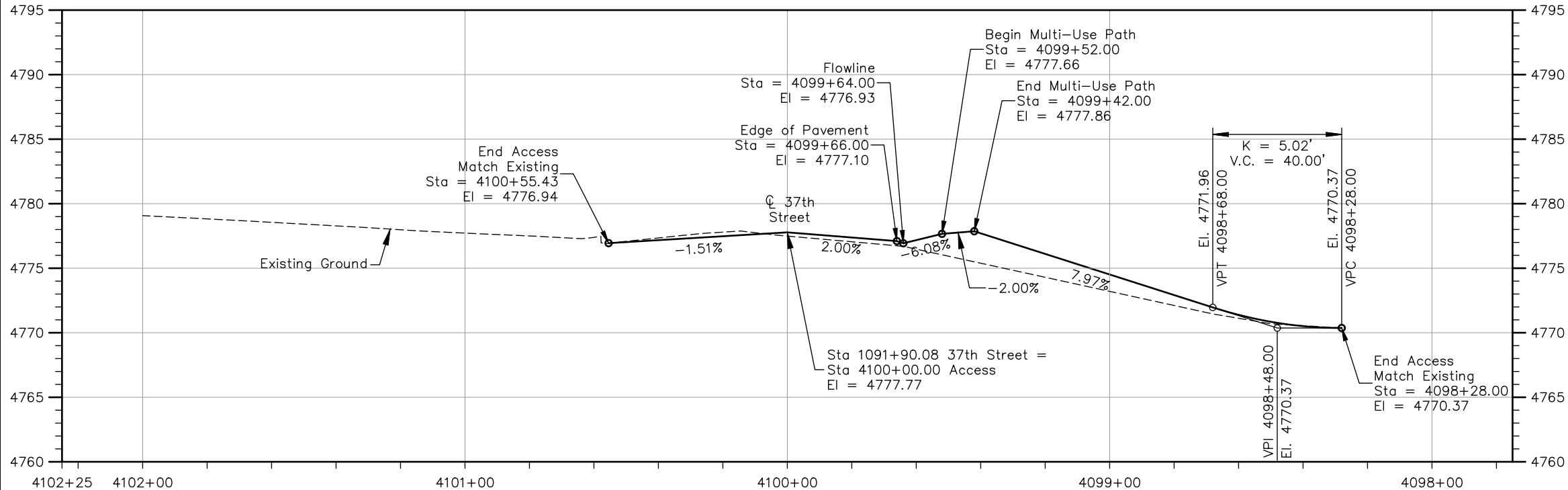
ROAD APPROACH (Residential-Driveway)  
1091+90.08 RT.  
(W = 30')

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4098+00.00	1381539.37	3209294.58

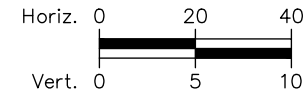
ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	400.00'	N0° 24' 18"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L1	4102+00.00	1381939.36	3209291.75

Notes: All curb and gutter callouts are to flowline of the gutter.  
See Details for Curb Ramp Sienna Avenue East.



PROFILE VIEW ACCESS STA 1091+90.08 LT. & RT.



**Concrete Driveway Quantity Take Off**

Aggregate Base Course (Class 6): 42 CY

Concrete Sidewalk (8 Inch): 33 SY

Concrete Pavement (8 Inch): 38 SY

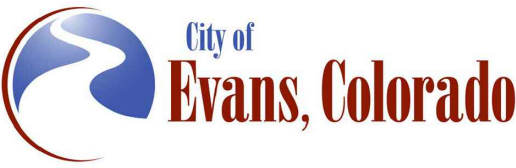


Print Date: 2/6/2024  
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Horiz. Scale: As Noted Vert. Scale: As Noted

**RockSol**  
Consulting Group, Inc.

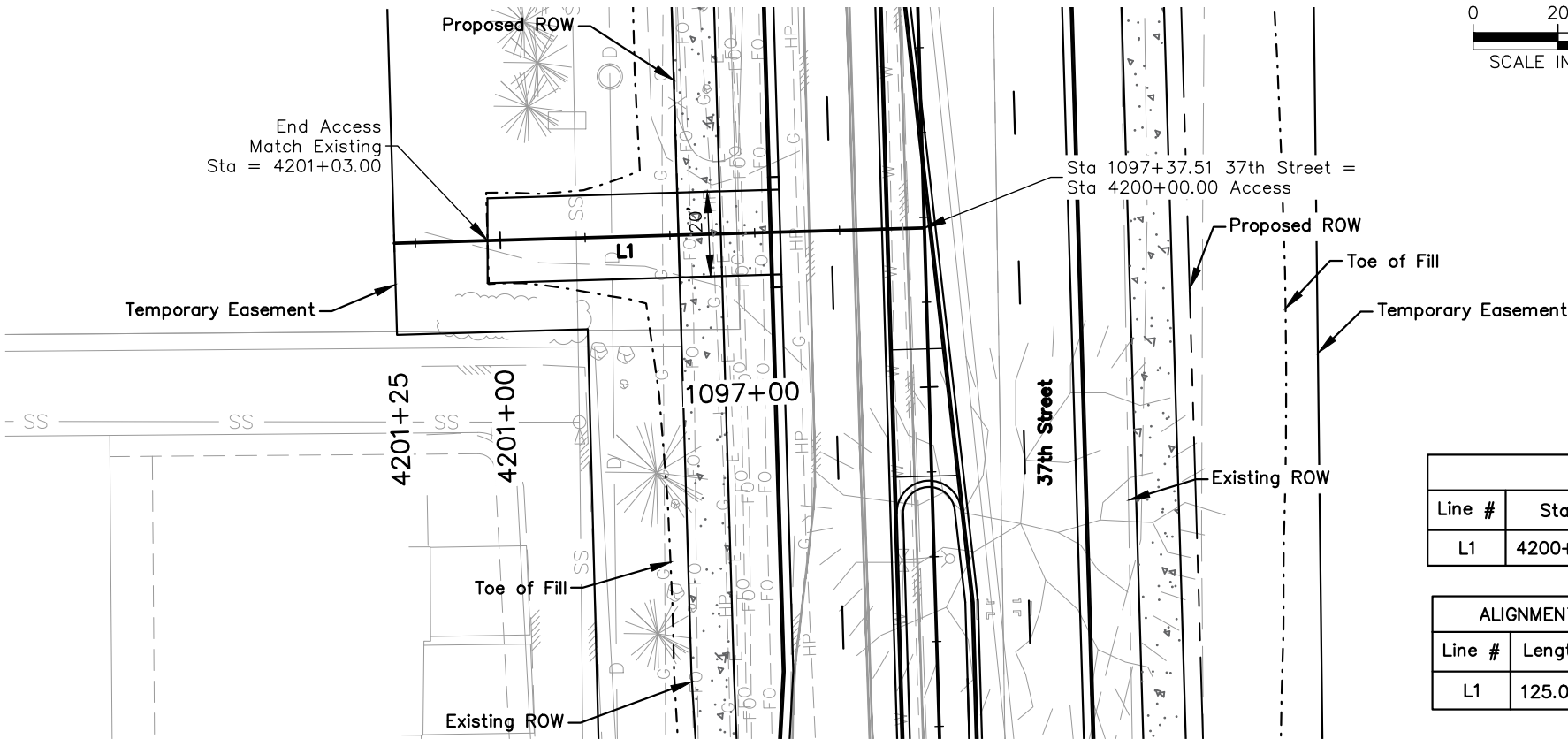
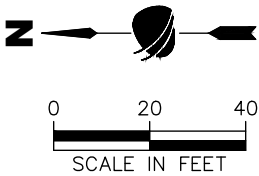
12076 Grant Street  
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Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A ROAD APPROACH 1091+90.08 LT. & RT.		Project No.
No Revisions:		Designer: T. Tuttle Detailer: J. Jensen		37TH STREET 2A
Revised:		Structure Numbers		Drawing Number RA-001
Void:		Sheet Subset: APPROACH Subset Sheets: 1 of 8		Sheet Number 39

ROAD APPROACH (Residential-Driveway)  
1097+37.51 LT.  
(W = 20')

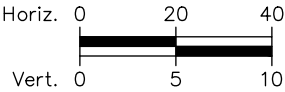
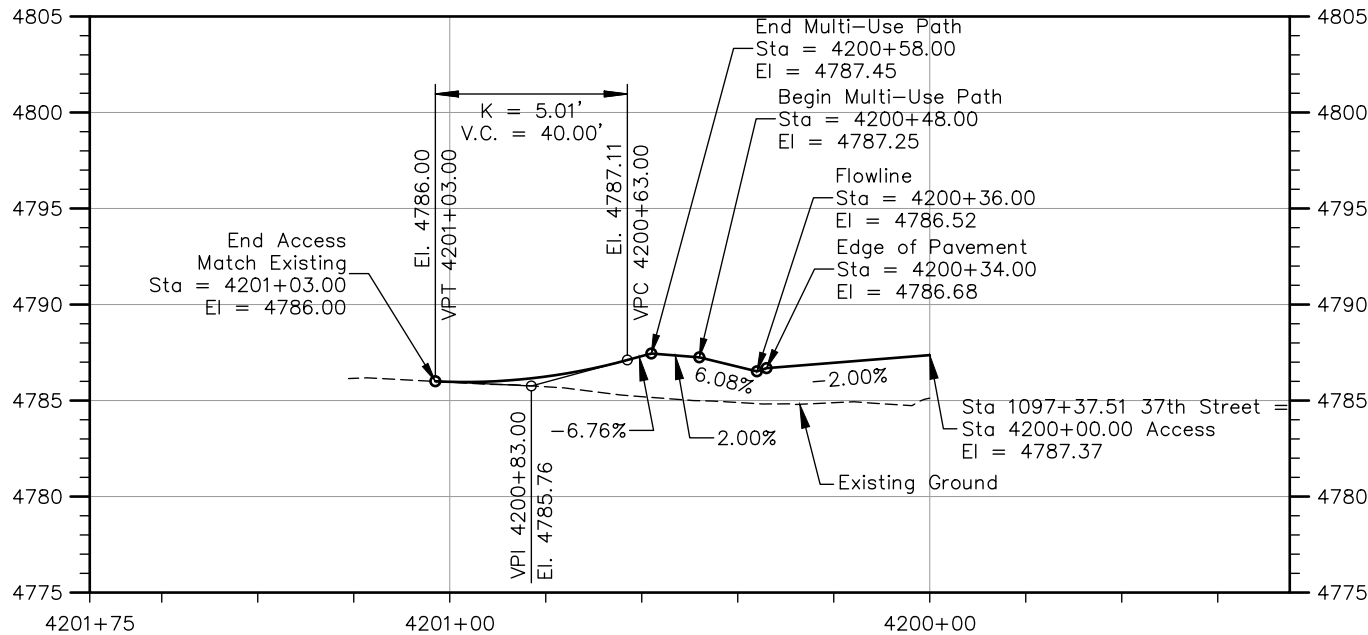


PLAN VIEW ACCESS STA 1097+37.51 LT.

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4200+00.00	1381755.65	3209840.35

ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	125.00'	N1° 39' 25"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L1	4201+25.00	1381880.60	3209836.74



PROFILE VIEW ACCESS STA 1097+37.51 LT.

Concrete Driveway Quantity Take Off

- Aggregate Base Course (Class 6): 11 CY
- Concrete Sidewalk (8 Inch): 22 SY
- Concrete Pavement (8 Inch): 26 SY



Print Date: 2/6/2024

File Name: RA P2A-001 ROAD APPROACH.DWG

Horiz. Scale: As Noted    Vert. Scale: As Noted

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Date	Comments	Initials

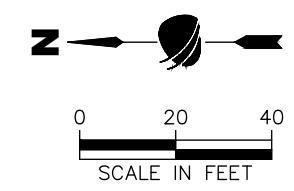
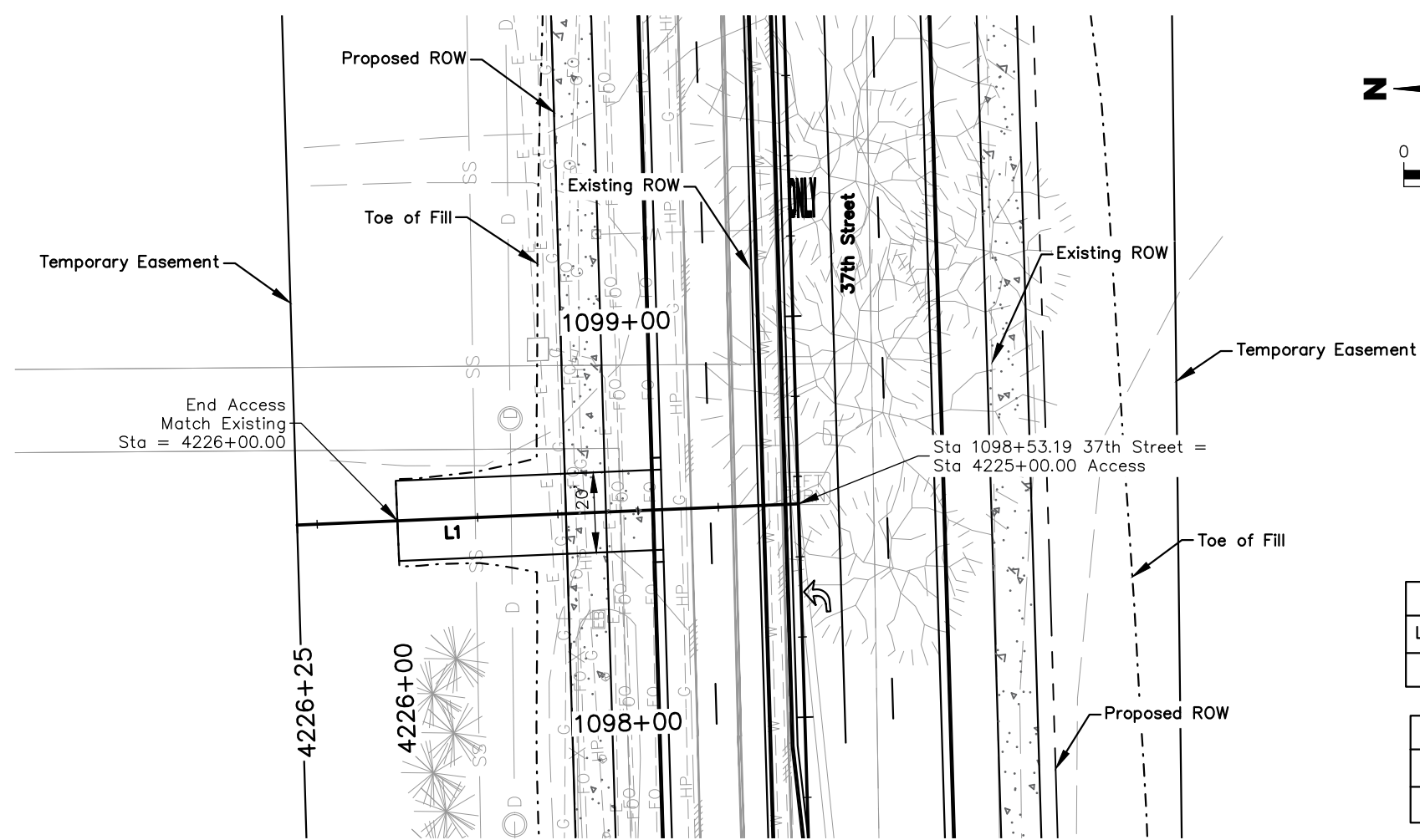
As Constructed		37TH STREET WIDENING PHASE 2A ROAD APPROACH 1097+37.51 LT.		Project No.
No Revisions:		Designer: T. Tuttle		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number RA-002
Void:		Sheet Subset: APPROACH	Subset Sheets: 2 of 8	Sheet Number 40

Plot Date: 2/6/2024 7:45 AM    Plotted By: Sarah Hemler  
C:\G-PROJECTS\VAI\VAI\PROJECTS\33001\EVANS\37TH ST AND 47TH AVE\PLAN\20\COMPUTER DESIGN FILES\P2 - PHASE 2A\200\_SHEET FILES\RA P2A-001 ROAD APPROACH.DWG

FOR CONSTRUCTION 2/24/2024



Plot Date: 2/6/2024 7:46 AM Plotted By: Sarah Hemler  
P:\Q-PROJECTS\VAI\PROJECTS\33001\EVANS 37TH ST AND 47TH AVE PLAN\20 COMPUTER DESIGN FILES\2 - PHASE 2A\202 SHEET FILES\2A P2A-001 ROAD APPROACH.DWG



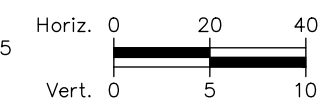
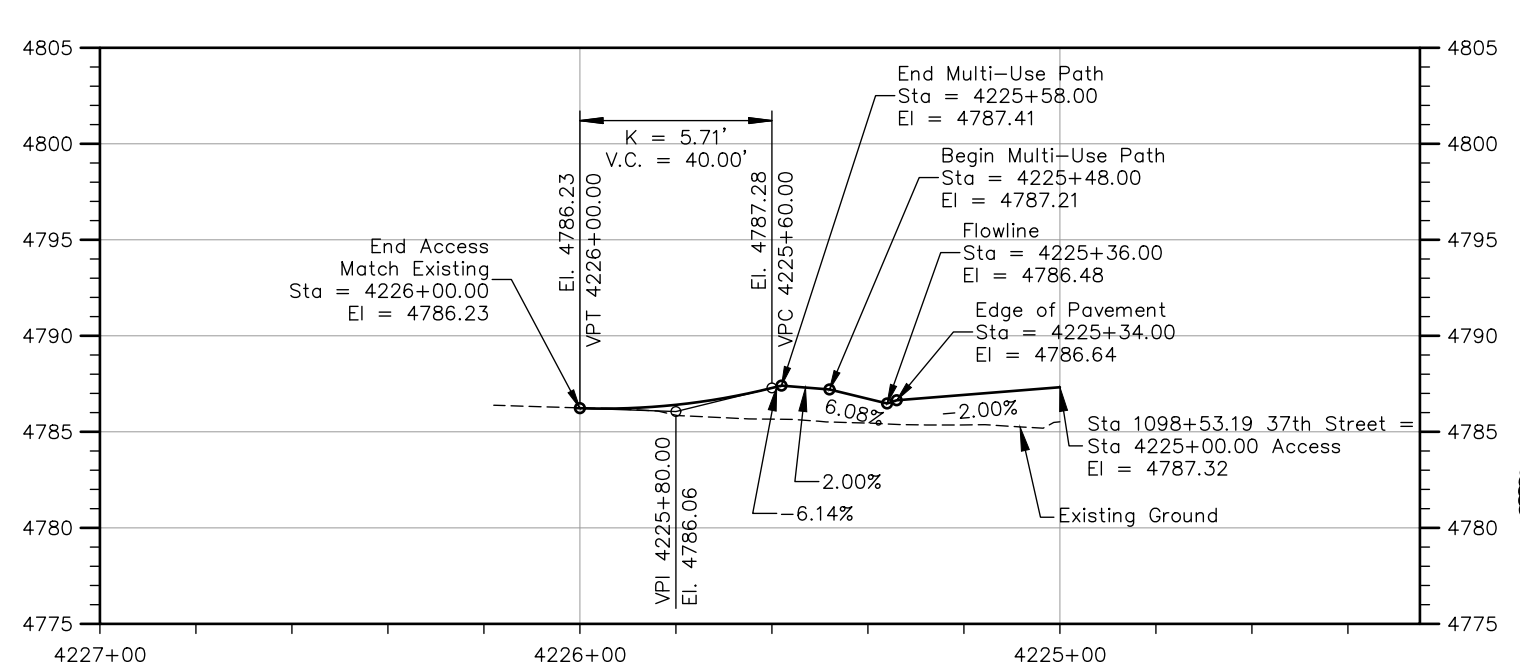
ROAD APPROACH (Residential-Driveway)  
1098+53.19 LT.  
(W = 20')

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4225+00.00	1381759.09	3209955.98

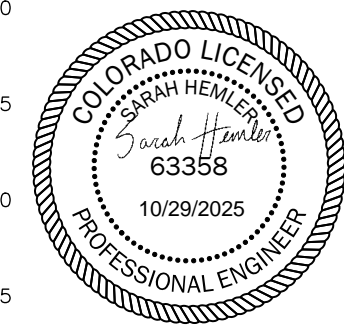
ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	125.00'	N2° 25' 26"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L1	4226+25.00	1381883.98	3209950.69

PLAN VIEW ACCESS STA 1098+53.19 LT.



**Concrete Driveway Quantity Take Off**  
Aggregate Base Course (Class 6): 10 CY  
Concrete Sidewalk (8 Inch): 22 SY  
Concrete Pavement (8 Inch): 26 SY



PROFILE VIEW ACCESS STA 1098+53.19 LT.



Print Date: 2/6/2024  
File Name: RA P2A-001 ROAD APPROACH.DWG  
Horiz. Scale: As Noted Vert. Scale: As Noted

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Sheet Revisions		
Date	Comments	Initials

**City of Evans, Colorado**

As Constructed		37TH STREET WIDENING PHASE 2A ROAD APPROACH 1098+53.19 LT.		Project No.
No Revisions:		Designer: T. Tuttle Detailer: J. Jensen		37TH STREET 2A
Revised:		Sheet Subset: APPROACH	Structure Numbers	Drawing Number RA-003
Void:		Subset Sheets: 3 of 8		Sheet Number 41

FOR CONSTRUCTION 2/24/2024

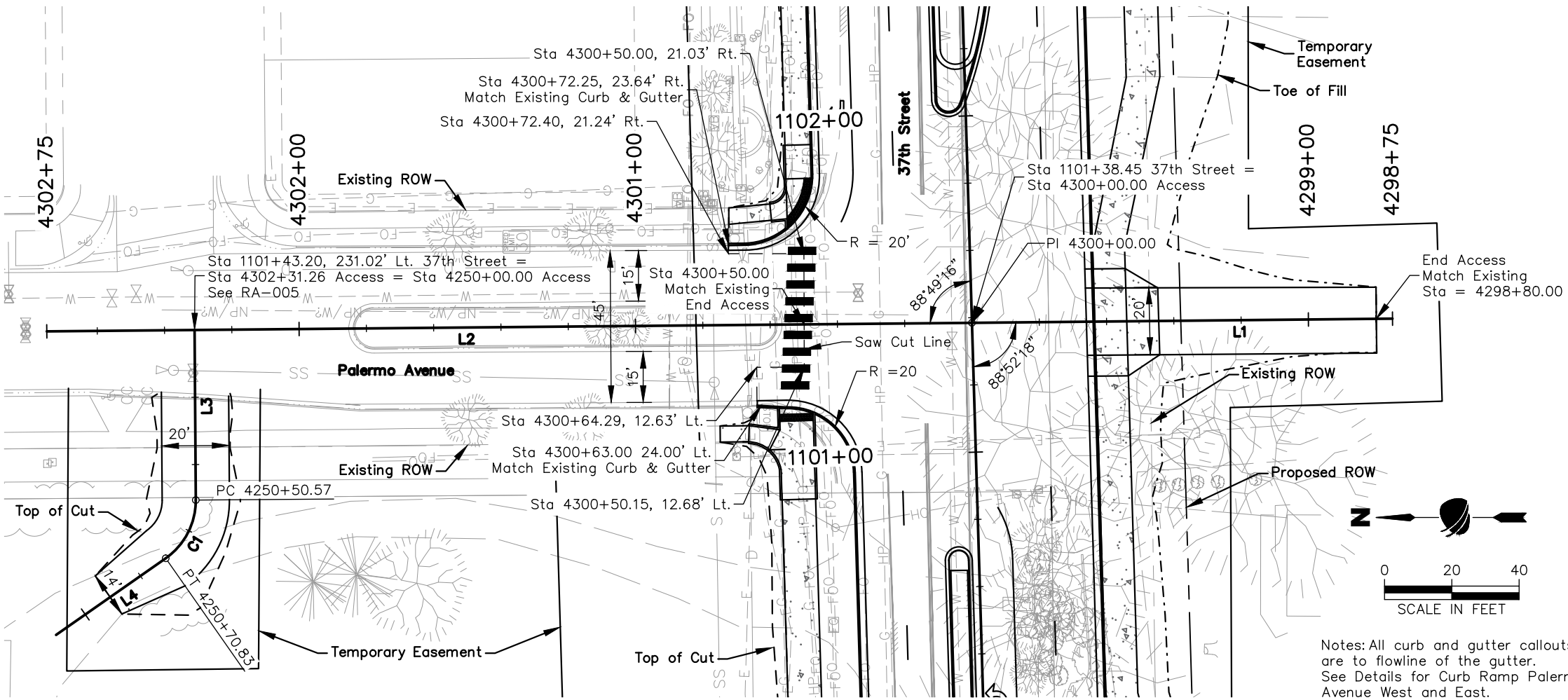
ROAD APPROACH (Palermo Avenue)  
1101+38.45 LT., SKEW 88°49'16" LT.  
(W = 45', R = 20')

ROAD APPROACH (Residential-Driveway)  
1101+38.45 RT., SKEW 88°52'18" RT.  
(W = 20')

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4298+75.00	1381642.59	3210242.36

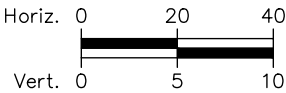
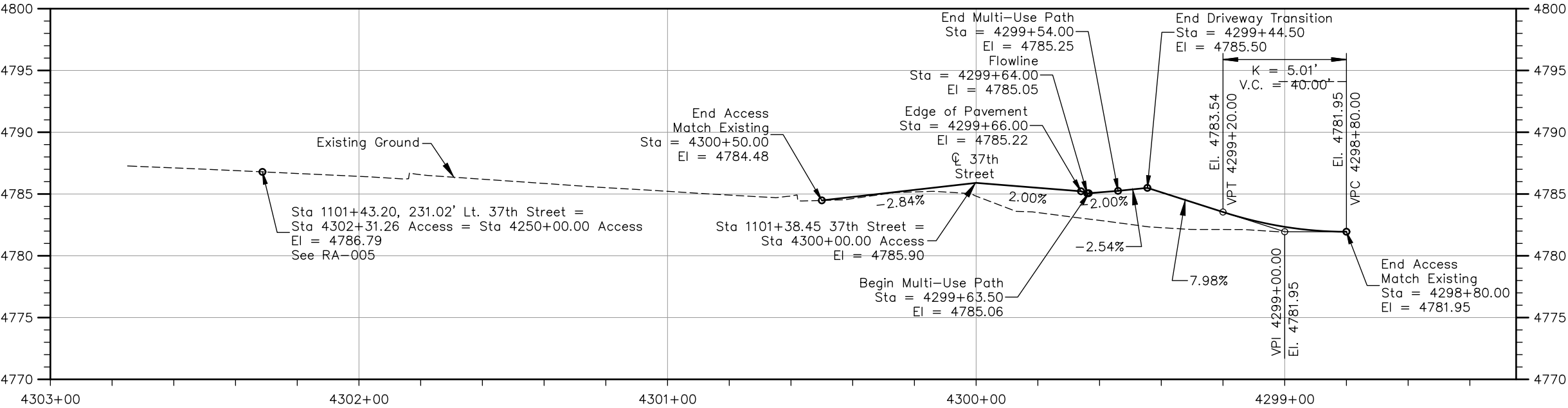
ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	125.00'	N0° 34' 35"W
L2	275.00'	N0° 31' 34"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L2	4302+75.00	1382042.56	3210238.58



Notes: All curb and gutter callouts are to flowline of the gutter. See Details for Curb Ramp Palermo Avenue West and East.

PLAN VIEW ACCESS STA 1101+38.45 LT. & RT.



PROFILE VIEW ACCESS STA 1101+38.45 LT. & RT.

Concrete Driveway Quantity Take Off

- Aggregate Base Course (Class 6): 16 CY
- Concrete Sidewalk (8 Inch): 34 SY
- Concrete Pavement (8 Inch): 27 SY



Print Date: 2/6/2024

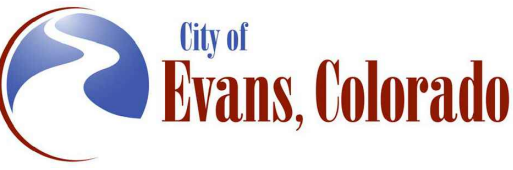
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Horiz. Scale: As Noted    Vert. Scale: As Noted

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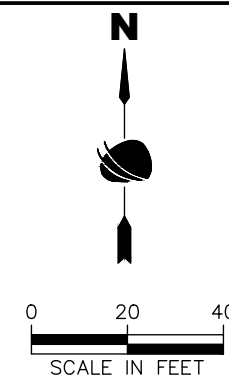
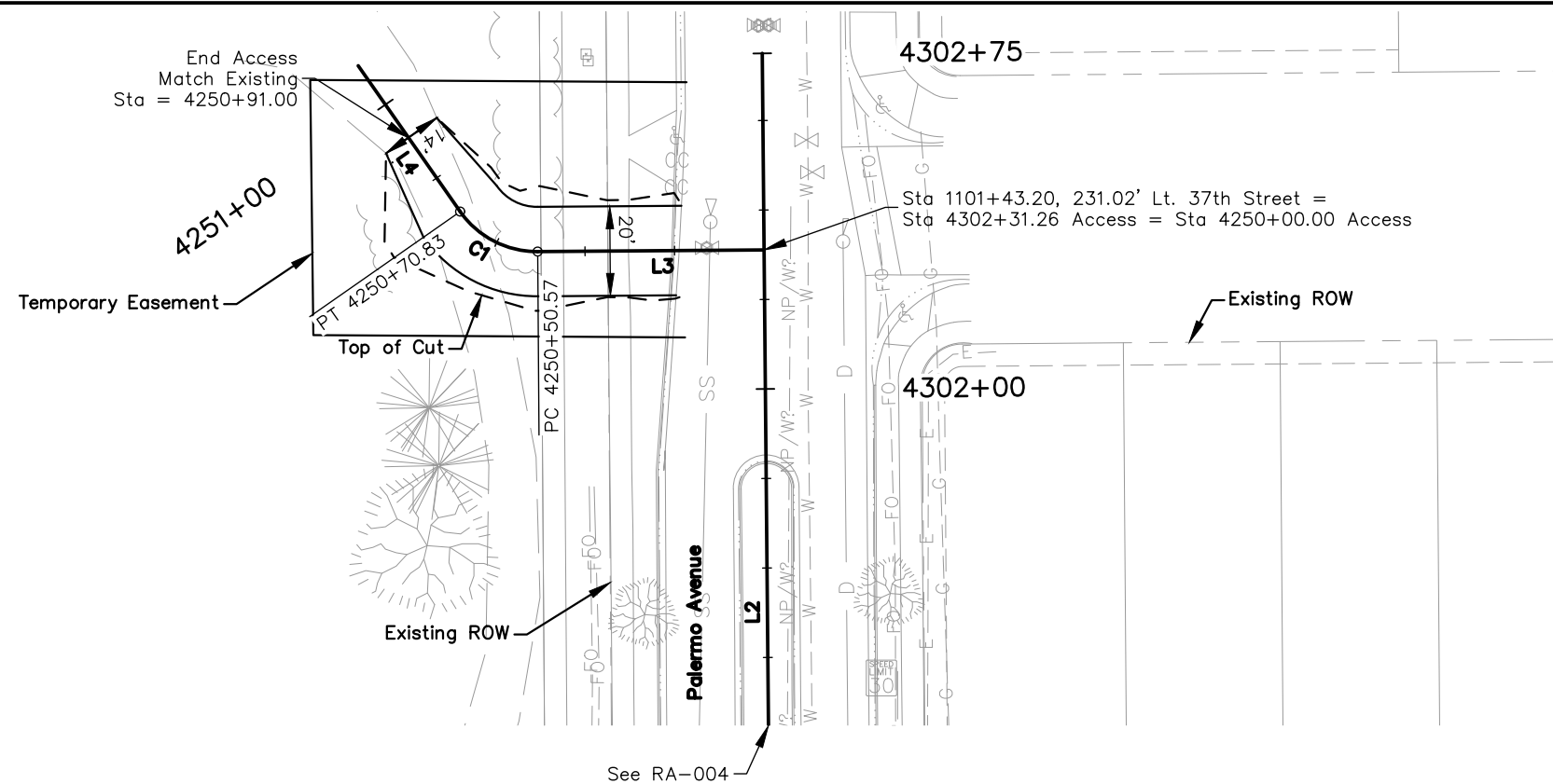
Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A ROAD APPROACH 1101+38.45 LT. & RT.		Project No.
No Revisions:		Designer: T. Tuttle		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number RA-004
Void:		Sheet Subset: APPROACH	Subset Sheets: 4 of 8	Sheet Number 42

Plot Date: 2/6/2024 7:46 AM    Plotted By: Sarah Hemler  
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FOR CONSTRUCTION 2/24/2024



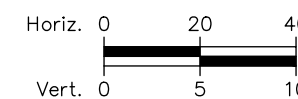
ROAD APPROACH (Residential-Driveway)  
1101+43.20, 231.02' LT.  
(W = 20')

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L3	4250+00.00	1381998.64	3210238.98

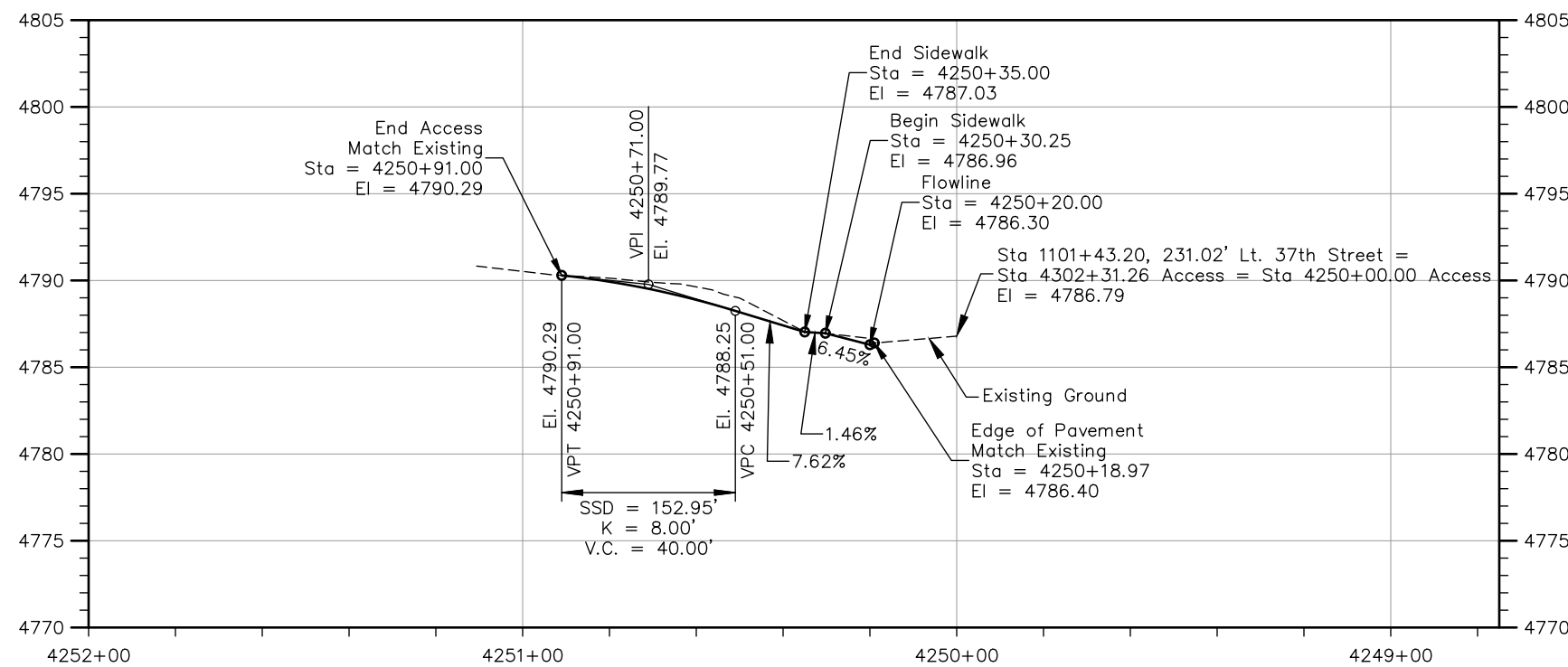
ALIGNMENT CURVE TABLE								
Curve #	PC Sta.	PI Sta.	PT Sta.	Delta	L	R	T	Dc
C1	4250+50.57	4250+61.57	4250+70.83	055°28'18"	20.26'	20.93'	11.00'	273.75

ALIGNMENT LINE TABLE		
Line #	Length	Direction
L3	50.57'	S89° 34' 42"W
L4	39.76'	N34° 57' 00"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L4	4251+10.59	1382039.80	3210148.33



PLAN VIEW ACCESS STA 1101+43.20, 231.02' LT.



PROFILE VIEW ACCESS STA 1101+43.20, 231.02' LT.

Concrete Driveway Quantity Take Off

Aggregate Base Course (Class 6): 13 CY

Concrete Sidewalk (8 Inch): 10 SY

Concrete Pavement (8 Inch): 21 SY



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Print Date: 2/6/2024

File Name: RA P2A-001 ROAD APPROACH.DWG

Horiz. Scale: As Noted    Vert. Scale: As Noted

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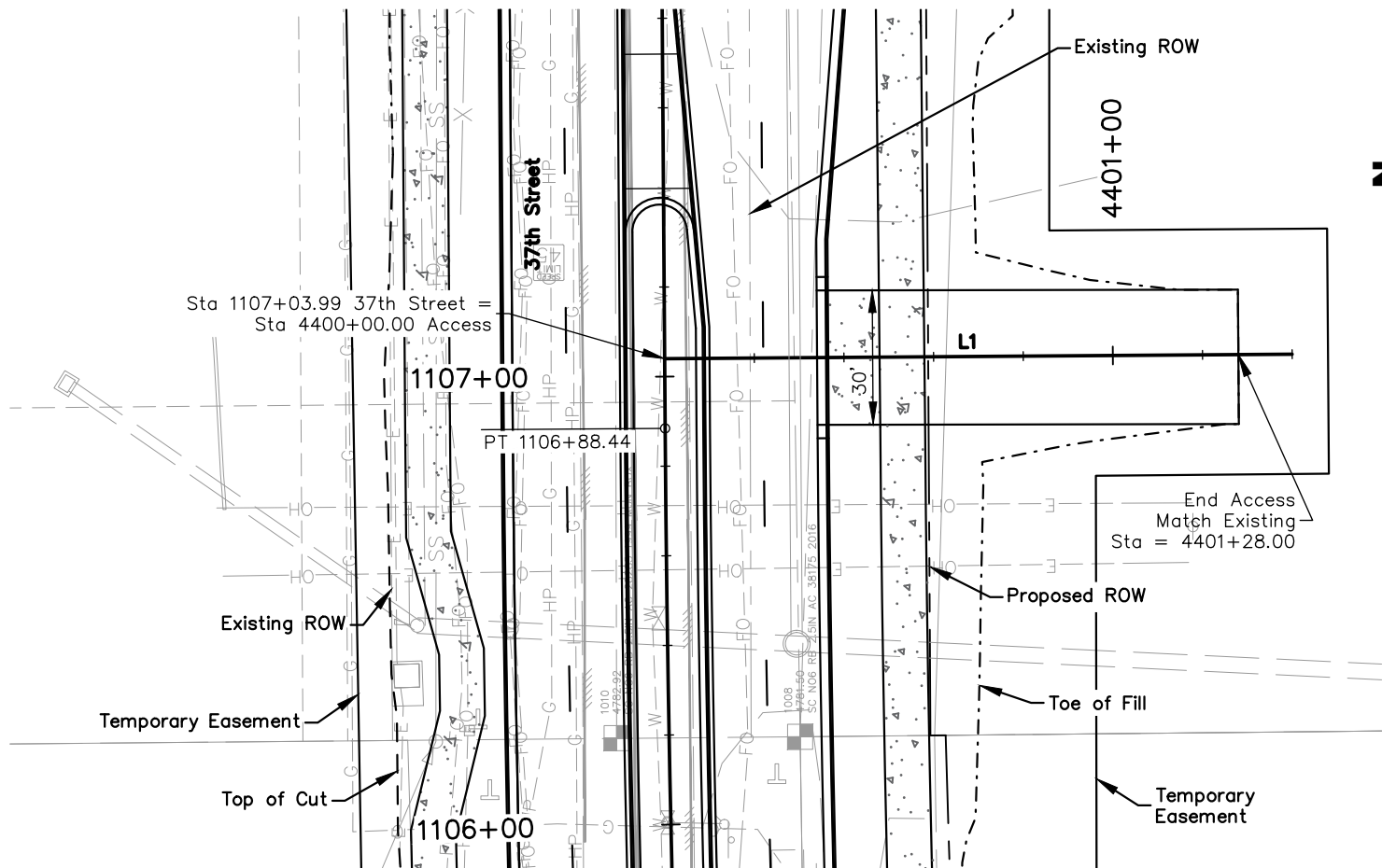
12076 Grant Street  
Thornton, CO 80241  
Ph: (303) 962-9300  
Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

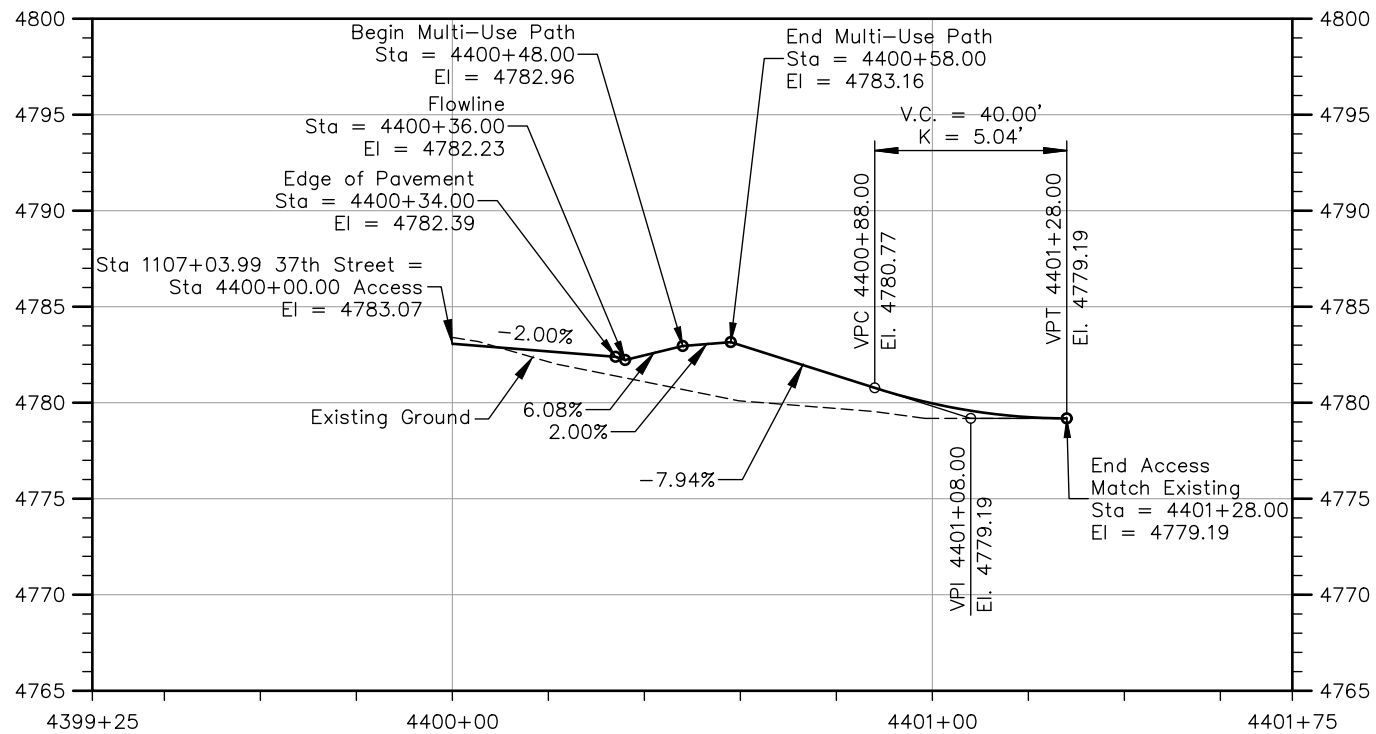
City of Evans, Colorado

As Constructed	37TH STREET WIDENING PHASE 2A ROAD APPROACH 1101+43.20, 231.02' LT.		Project No.
	No Revisions:		37TH STREET 2A
	Revised:	Designer: T. Tuttle Detailer: J. Jensen	Drawing Number RA-005
Void:	Sheet Subset: APPROACH	Subset Sheets: 5 of 8	Sheet Number 43



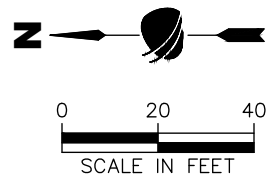


PLAN VIEW ACCESS STA 1107+03.99 RT.



PROFILE VIEW ACCESS STA 1107+03.99 RT.

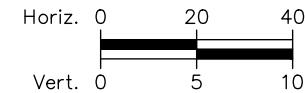
ROAD APPROACH (Agricultural)  
1107+03.99 RT.  
(W = 30')



ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4400+00.00	1381782.52	3210806.44

ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	140.00'	S0° 24' 31"E

ALIGNMENT END			
Line #	Station	Northing	Easting
L1	4401+40.00	1381642.52	3210807.44



**Concrete Driveway Quantity Take Off**

Aggregate Base Course (Class 6): 26 CY

Concrete Sidewalk (8 Inch): 33 SY

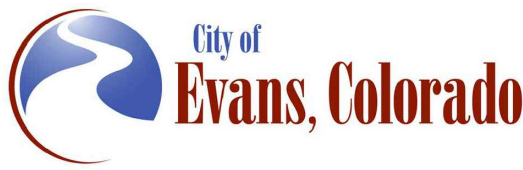
Concrete Pavement (8 Inch): 38 SY



Print Date: 2/6/2024  
File Name: RA P2A-001 ROAD APPROACH.DWG  
Horiz. Scale: As Noted Vert. Scale: As Noted

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

Sheet Revisions		
Date	Comments	Initials

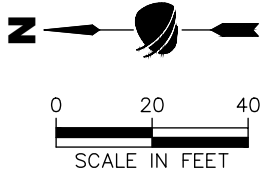


As Constructed		37TH STREET WIDENING PHASE 2A ROAD APPROACH 1107+03.99 RT.		Project No.
No Revisions:		Designer: T. Tuttle Detailer: J. Jensen		37TH STREET 2A
Revised:		Structure Numbers		Drawing Number RA-006
Void:		Sheet Subset: APPROACH Subset Sheets: 6 of 8		Sheet Number 44

Plot Date: 2/6/2024 7:47 AM Plotted By: Sarah Hemler  
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FOR CONSTRUCTION 2/24/2024

ROAD APPROACH (Stampede Drive)  
1111+77.01 LT.  
(W = 36', R = 20')



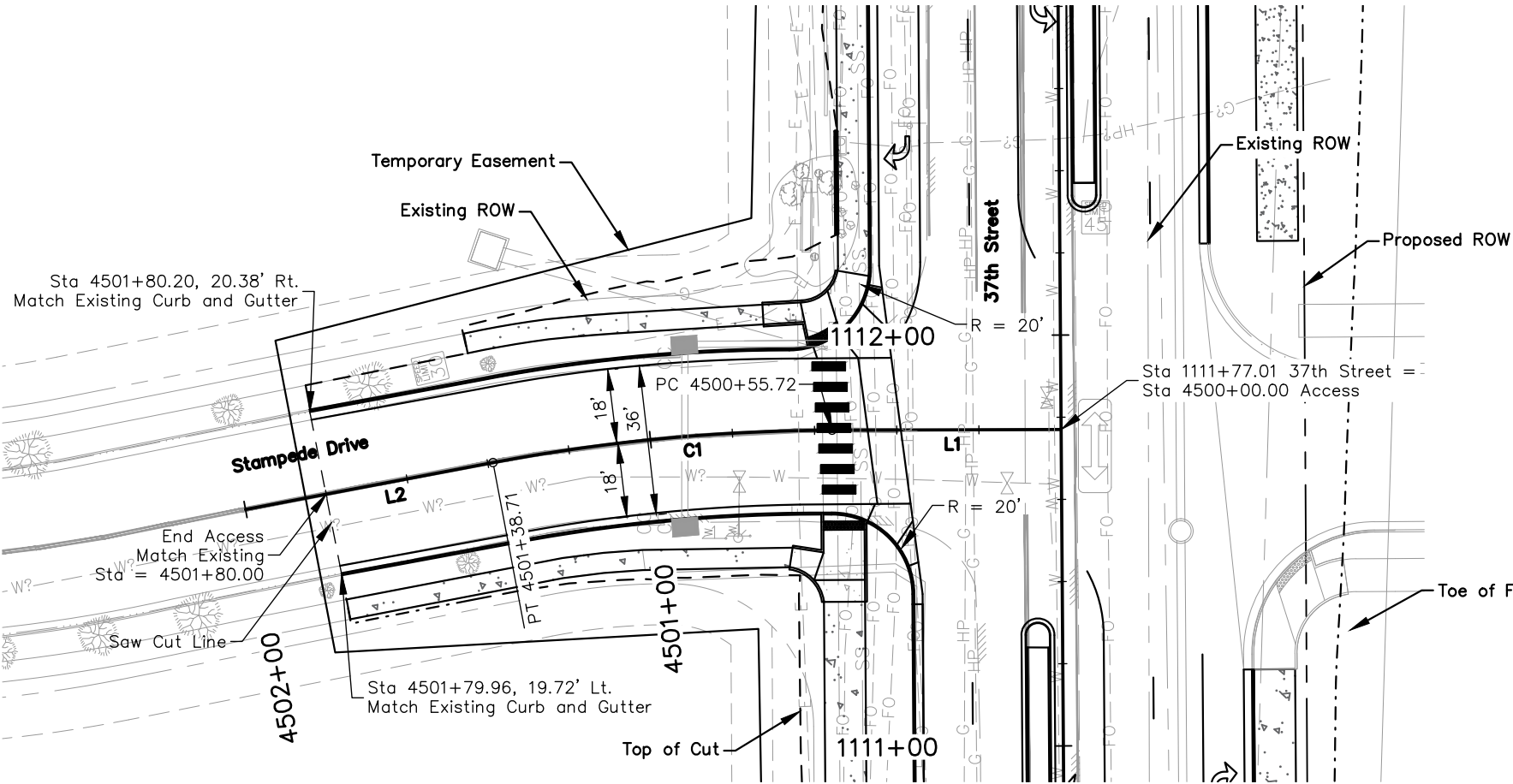
Notes: All curb and gutter callouts are to flowline of the gutter.  
See Details for Curb Ramp Stampede Drive West and East.

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4500+00.00	1381785.89	3211279.44

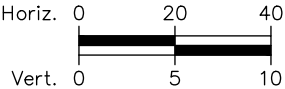
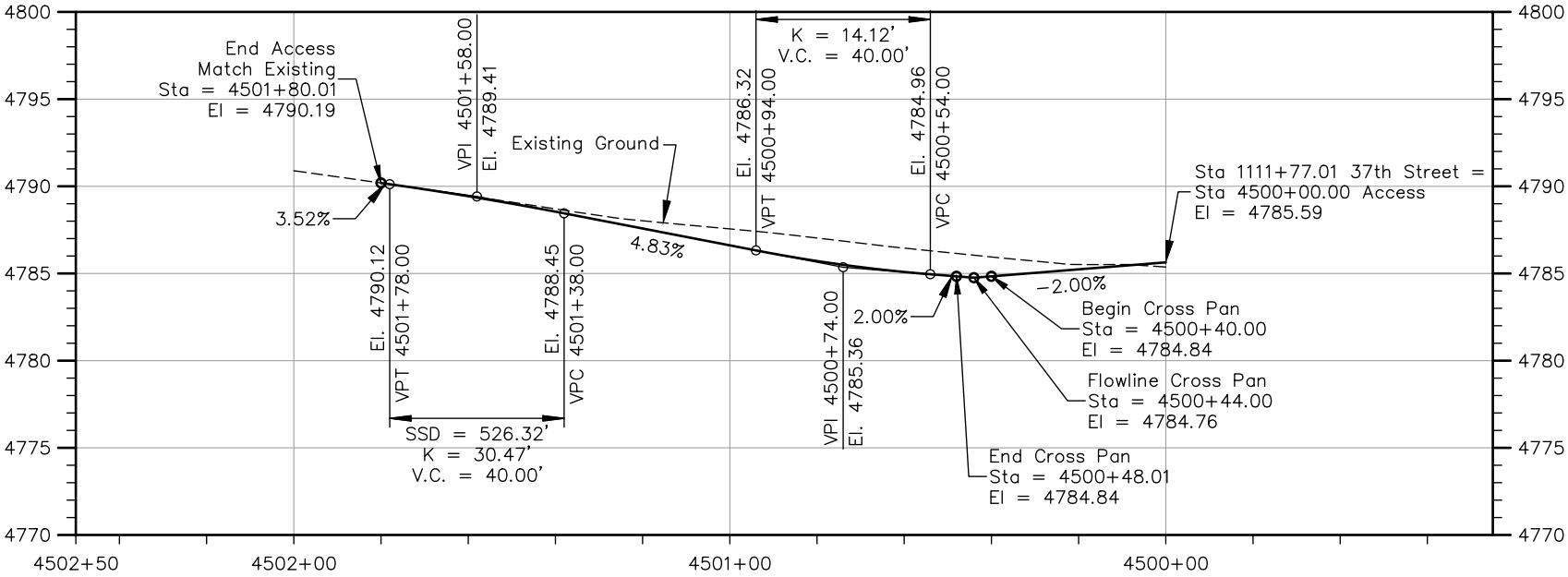
ALIGNMENT CURVE TABLE								
Curve #	PC Sta.	PI Sta.	PT Sta.	Delta	L	R	T	Dc
C1	4500+55.72	4500+97.34	4501+38.71	010°34'00"	82.99'	450.00'	41.61'	012.73

ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	55.72'	N0° 10' 23"W
L2	61.29'	N10° 44' 22"W

ALIGNMENT END			
Line #	Station	Northing	Easting
L2	4502+00.00	1381984.32	3211259.97



PLAN VIEW ACCESS STA 1111+77.01 LT.



Street Approach Quantity Take Off

- HMA (SX) (100) (PG 64-28): 59 TONS
- HMA (S) (75) (PG 64-22): 118 TONS
- Emulsified Asphalt (Slow-Setting): 53 GAL
- Aggregate Base Course (Class 6): 140 CY
- Concrete Sidewalk (6 Inch): 98 SY
- Concrete Curb Ramp: 69 SY
- Curb and Gutter Type 2 (Section II-B): 240 LF
- Gutter Type 2 (8 Foot): 36 LF
- Concrete Pavement (8 Inch): 21 SY



PROFILE VIEW ACCESS STA 1111+77.01 LT.

Print Date: 2/6/2024

File Name: RA P2A-001 ROAD APPROACH.DWG

Horiz. Scale: As Noted

Vert. Scale: As Noted

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Sheet Revisions		
Date	Comments	Initials

As Constructed

No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
ROAD APPROACH  
1111+77.01 LT.

Designer: T. Tuttle

Detailer: J. Jensen

Sheet Subset: APPROACH

Structure Numbers

Subset Sheets: 7 of 8

Project No.

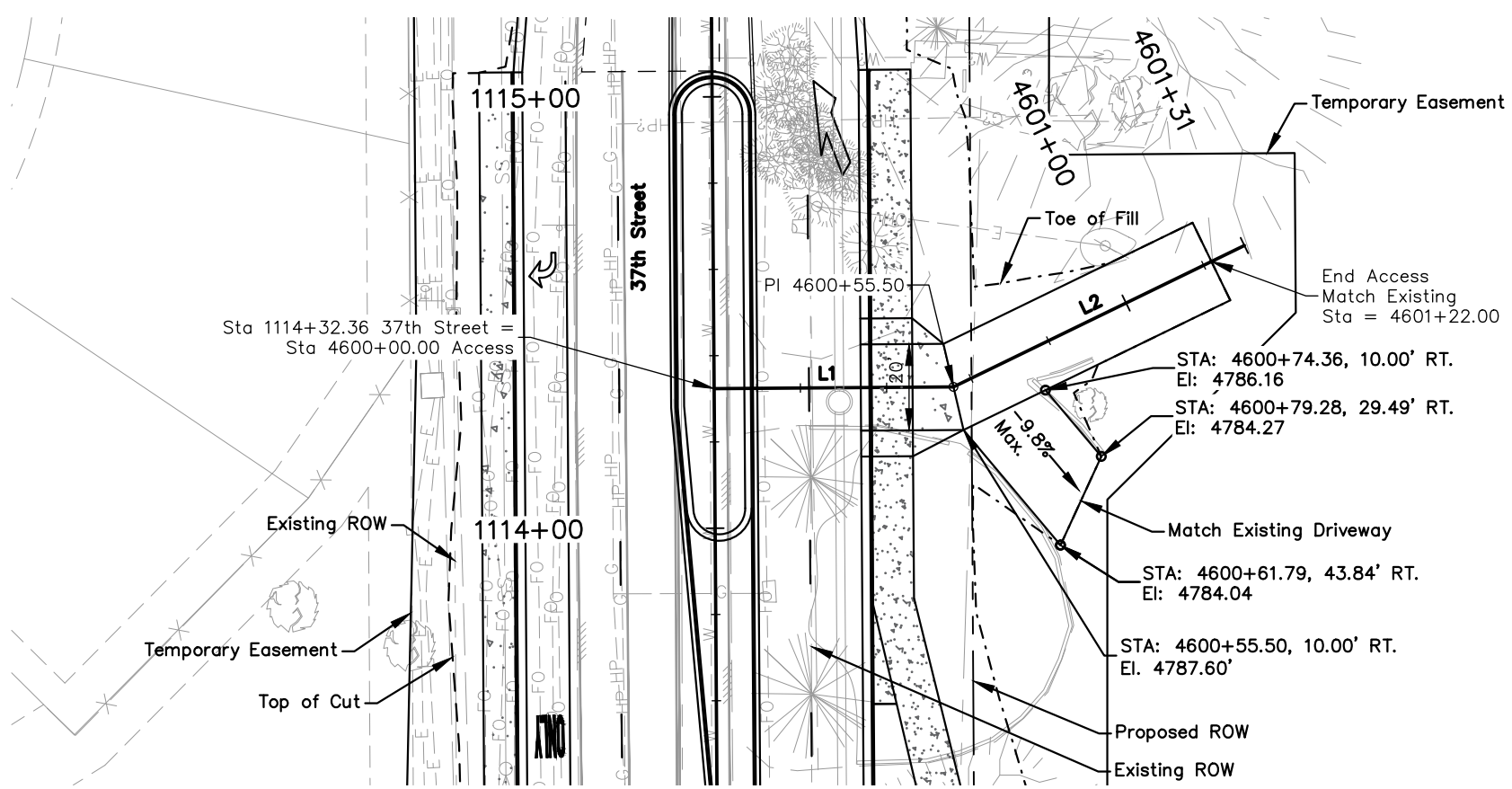
37TH STREET 2A

Drawing Number RA-007

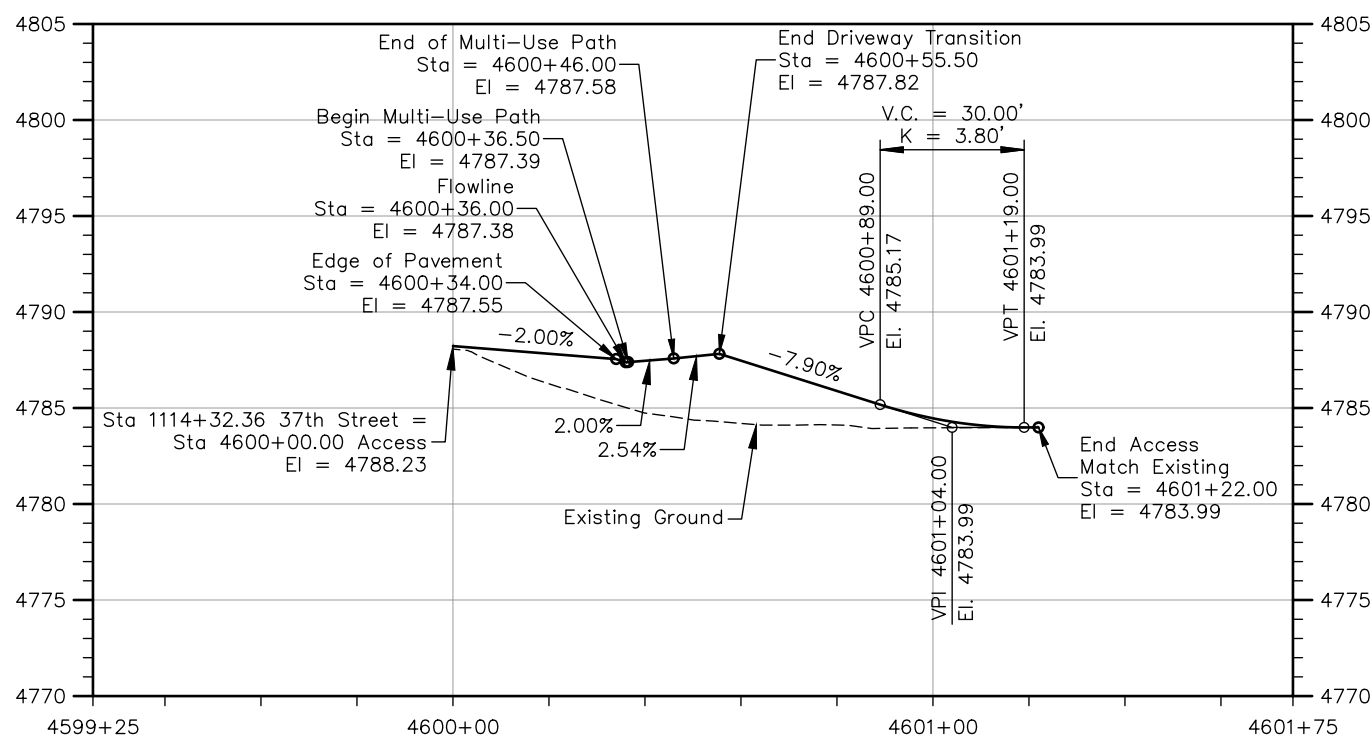
Sheet Number 45

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FOR CONSTRUCTION 2/24/2024



PLAN VIEW ACCESS STA 1114+32.36 RT.



PROFILE VIEW ACCESS STA 1114+32.36 RT.

ROAD APPROACH (Residential-Driveway)  
1114+32.36 RT.  
(W = 20')

N

0 20 40  
SCALE IN FEET

ALIGNMENT BEGIN			
Line #	Station	Northing	Easting
L1	4600+00.00	1381787.71	3211534.79

ALIGNMENT LINE TABLE		
Line #	Length	Direction
L1	55.50'	S0° 24' 31"E
L2	75.00'	S25° 55' 06"E

ALIGNMENT END			
Line #	Station	Northing	Easting
L2	4601+30.50	1381664.75	3211567.97

**Concrete Driveway Quantity Take Off**

Aggregate Base Course (Class 6): 22 CY

Concrete Sidewalk (8 Inch): 34 SY

Concrete Pavement (8 Inch): 27 SY



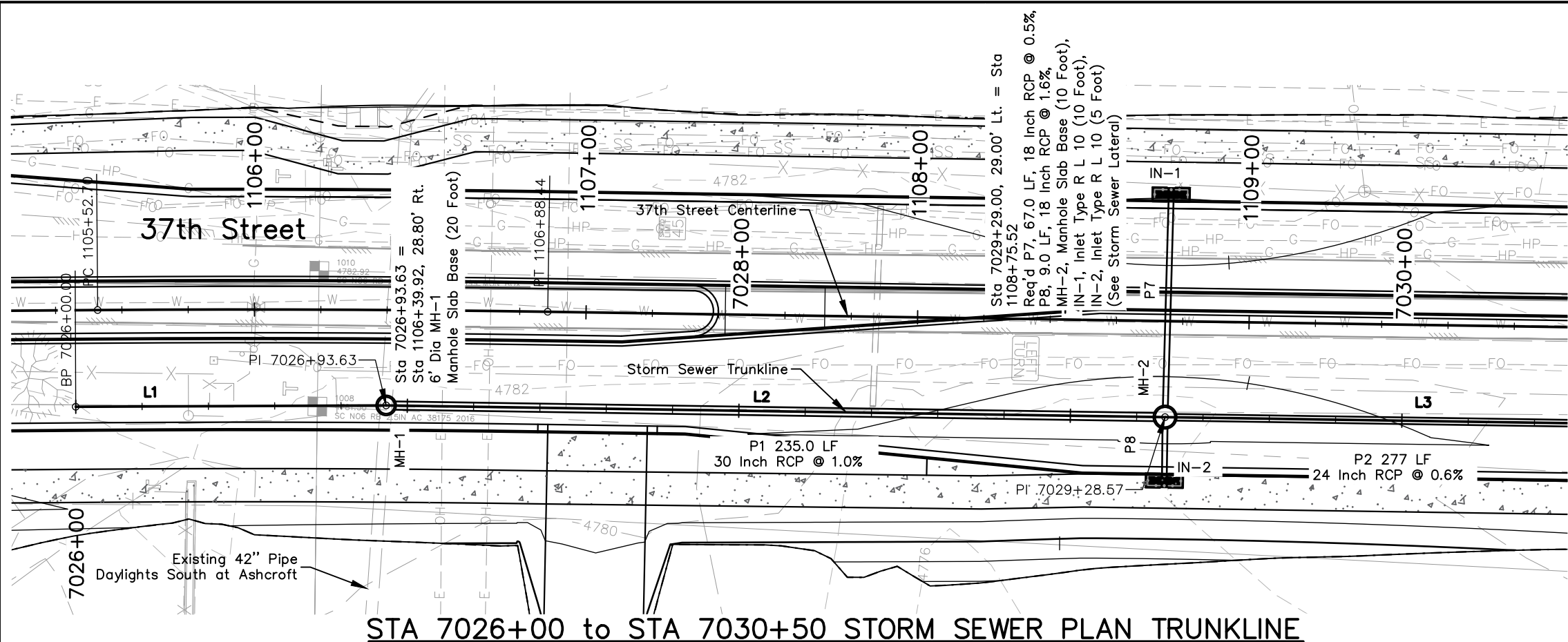
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Print Date: 2/6/2024	<div>0000</div>	Sheet Revisions					As Constructed	37TH STREET WIDENING PHASE 2A ROAD APPROACH 1114+32.36 RT.	Project No. 37TH STREET 2A	
File Name: RA P2A-001 ROAD APPROACH.DWG		Date	Comments	Initials						No Revisions:
Horiz. Scale: As Noted Vert. Scale: As Noted										Revised:
							Void:	Designer: T. Tuttle Detailer: J. Jensen Sheet Subset: APPROACH	Structure Numbers Subset Sheets: 8 of 8	Drawing Number RA-008 Sheet Number 46

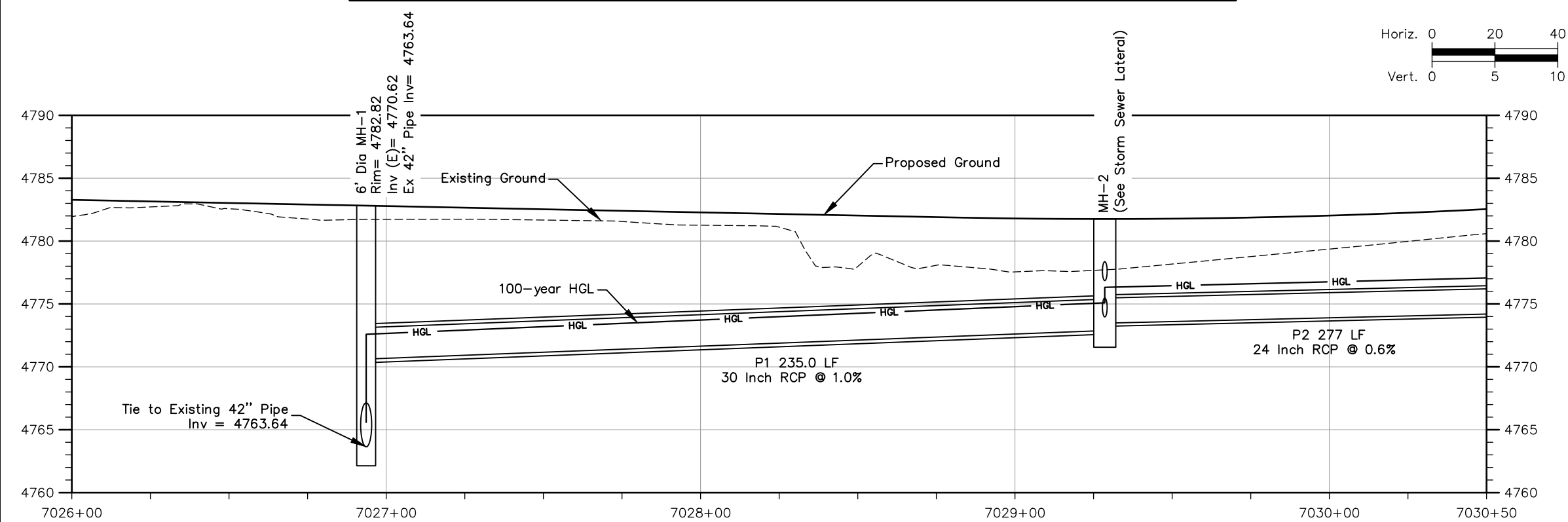
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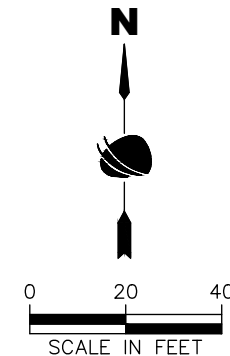
Plot Date: 2/12/2024 1:00 PM Plotted By: Sarah Henner  
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STA 7026+00 to STA 7030+50 STORM SEWER PLAN TRUNKLINE



STA 7026+00 to STA 7030+50 STORM SEWER PROFILE TRUNKLINE



## STORM SEWER TRUNKLINE

ALIGNMENT LINE TABLE		
Line No.	Start Northing	Start Easting
L1	1381750.58	3210649.21
L2	1381753.06	3210742.81
L3	1381754.74	3210977.74

ALIGNMENT LINE TABLE		
Line No.	Length	Direction
L1	93.63	N88° 28' 55"E
L2	234.94	N89° 35' 29"E
L3	277.00	N89° 34' 50"E



Print Date: 2/12/2024

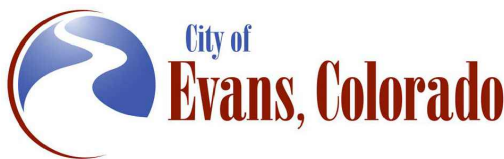
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Horiz. Scale: As Noted

Vert. Scale: As Noted

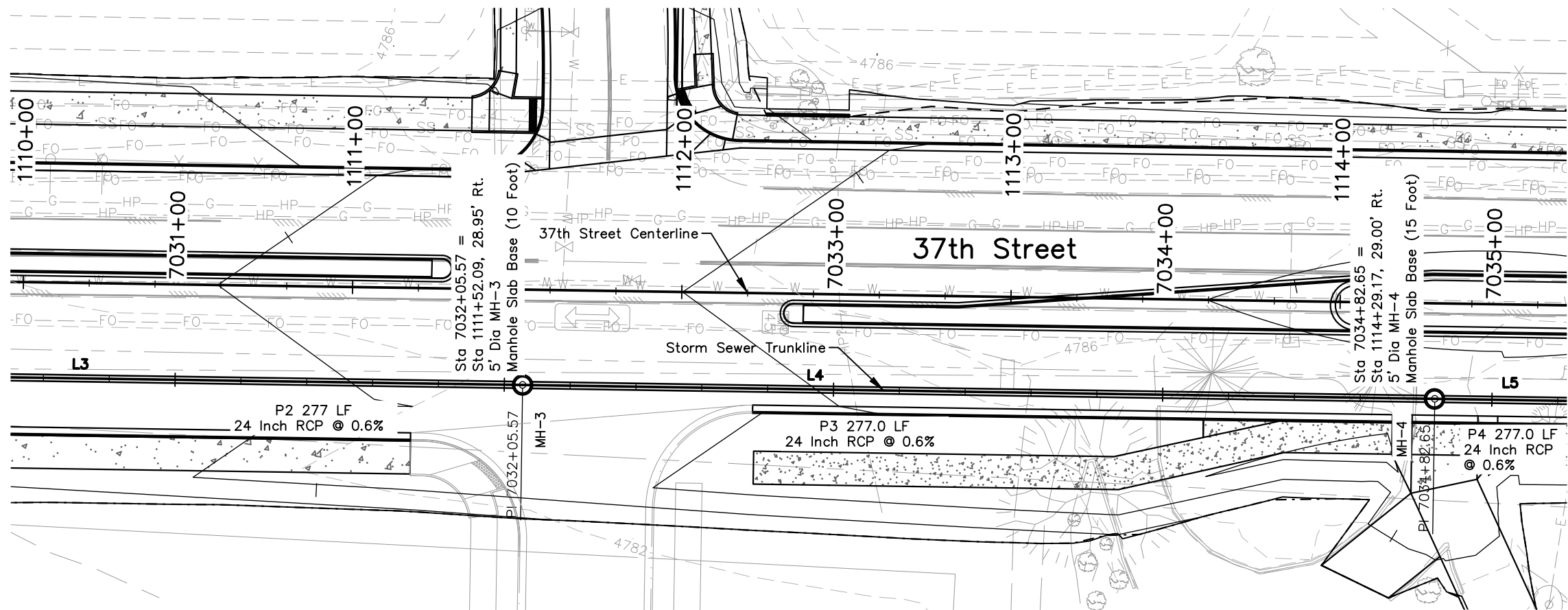
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Date	Comments	Initials



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No Revisions:		Designer: E. Schneider		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number STRM-001
Void:		Sheet Subset: STRM P&P	Subset Sheets: 1 of 6	Sheet Number

FOR CONSTRUCTION 2/24/2024

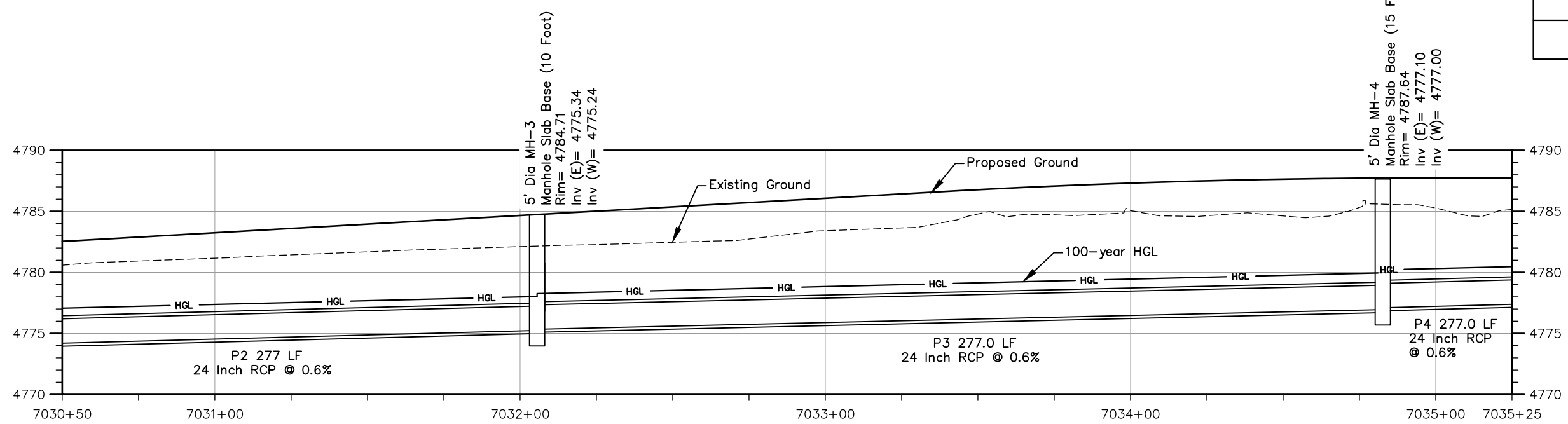


STA 7030+50 to STA 7035+25 STORM SEWER PLAN TRUNKLINE

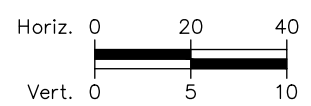
STORM SEWER TRUNKLINE

ALIGNMENT LINE TABLE		
Line No.	Start Northing	Start Easting
L3	1381754.74	3210977.74
L4	1381756.77	3211254.74
L5	1381758.69	3211531.80

ALIGNMENT LINE TABLE		
Line No.	Length	Direction
L3	277.00	N89° 34' 50"E
L4	277.07	N89° 36' 05"E
L5	277.07	N89° 36' 05"E



STA 7030+50 to STA 7035+25 STORM SEWER PROFILE TRUNKLINE



Plot Date: 2/12/2024 1:00 PM Plotted By: Sarah Henner  
C:\Q-PROJECTS\VAITE PROJECTS\33001\EVANS 37TH ST AND 47TH AVE PLAN\820 COMPUTER DESIGN FILES\P2 - PHASE 2A\820 SHEET FILES\STRM P2A-001 STORM SEWER PLAN & PROFILE.DWG

Print Date: 2/12/2024

File Name: STRM P2A-001 STORM SEWER PLAN & PROFILE.DWG

Horiz. Scale: As Noted

Vert. Scale: As Noted

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Sheet Revisions

Date	Comments	Initials

As Constructed

No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
STORM SEWER PLAN & PROFILE  
TRUNKLINE

Designer: E. Schneider

Detailer: J. Jensen

Sheet Subset: STRM P&P

Structure Numbers

Subset Sheets: 2 of 6

Project No.

37TH STREET 2A

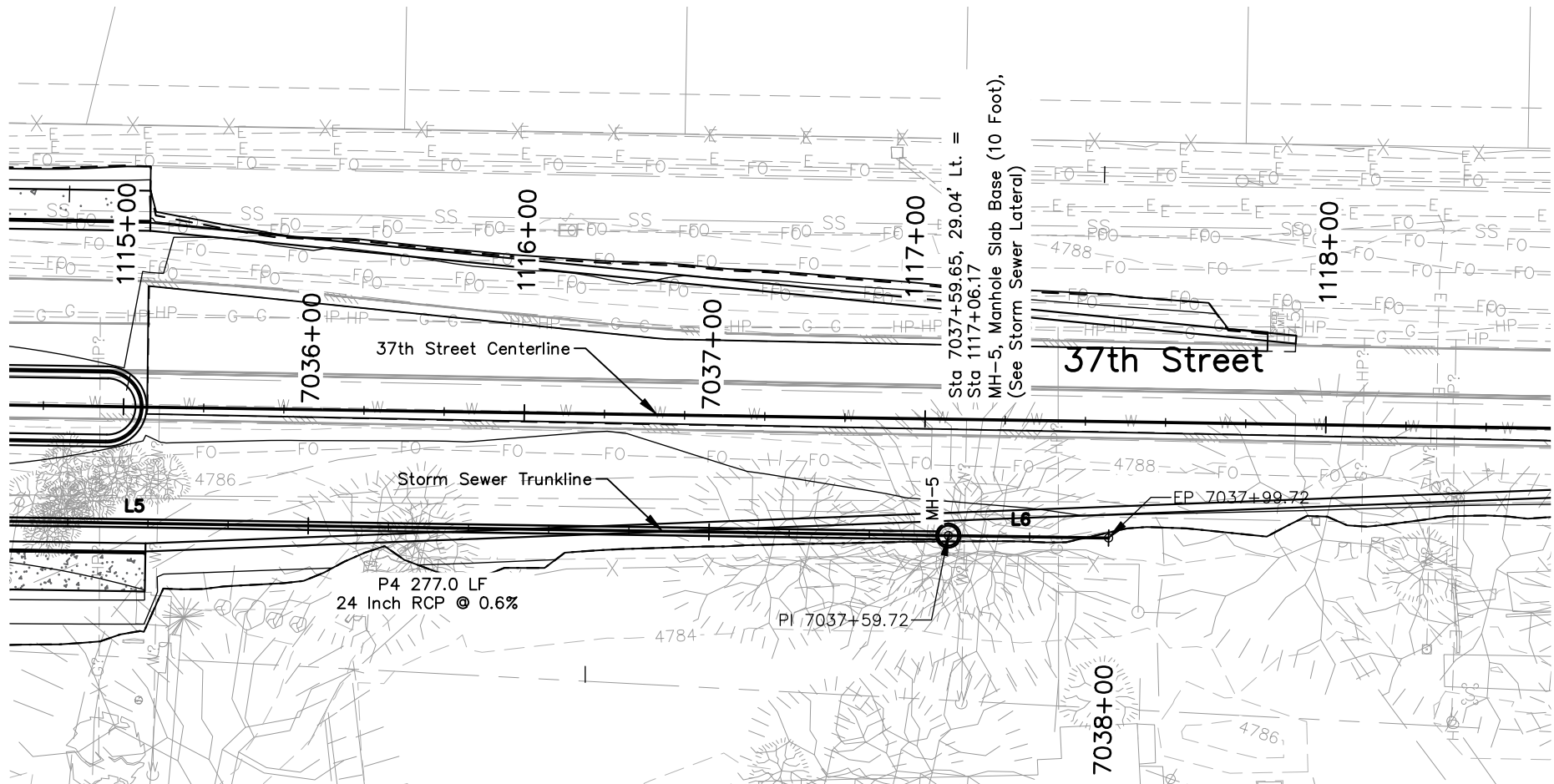
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Sheet Number

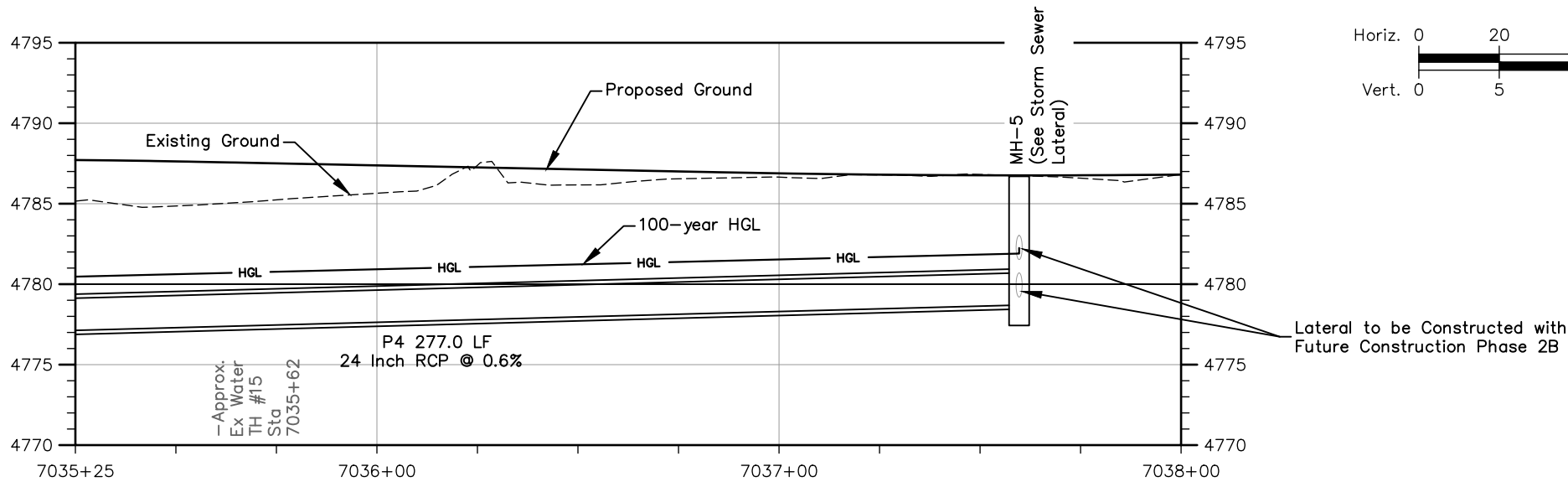
FOR CONSTRUCTION 2/24/2024



Plot Date: 2/12/2024 1:01 PM Plotted By: Sarah Hemler  
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STA 7035+25 to STA 7038+00 STORM SEWER PLAN TRUNKLINE



STA 7035+25 to STA 7038+00 STORM SEWER PROFILE TRUNKLINE

STORM SEWER TRUNKLINE

ALIGNMENT LINE TABLE		
Line No.	Start Northing	Start Easting
L5	1381758.69	3211531.80
L6	1381760.62	3211808.87

ALIGNMENT LINE TABLE		
Line No.	Length	Direction
L5	277.07	N89° 36' 05"E
L6	40.00	N89° 35' 40"E



Print Date: 2/12/2024

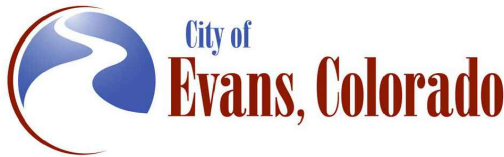
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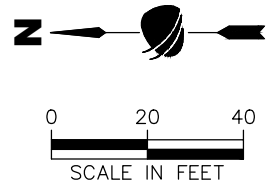
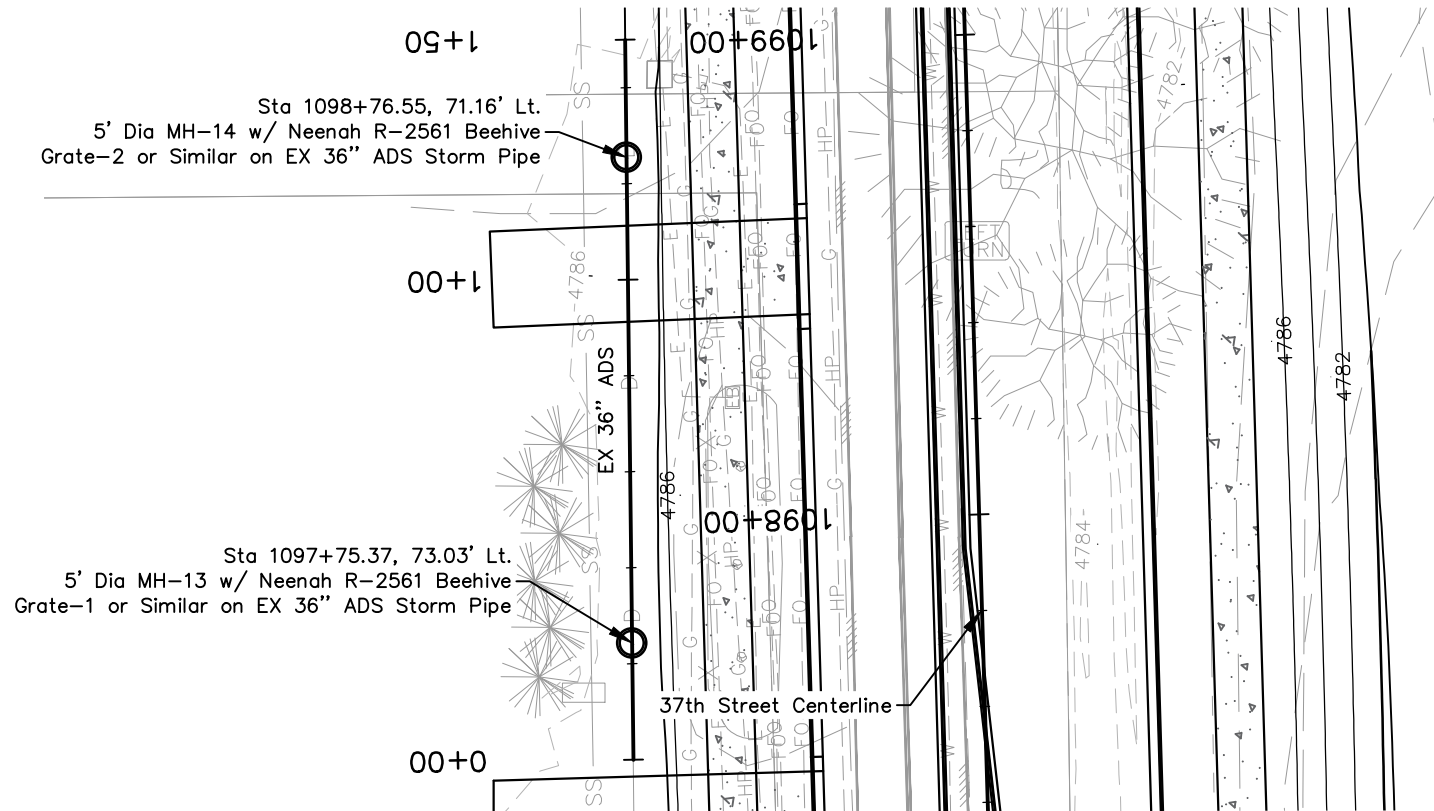
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Sheet Revisions		
Date	Comments	Initials



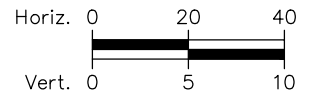
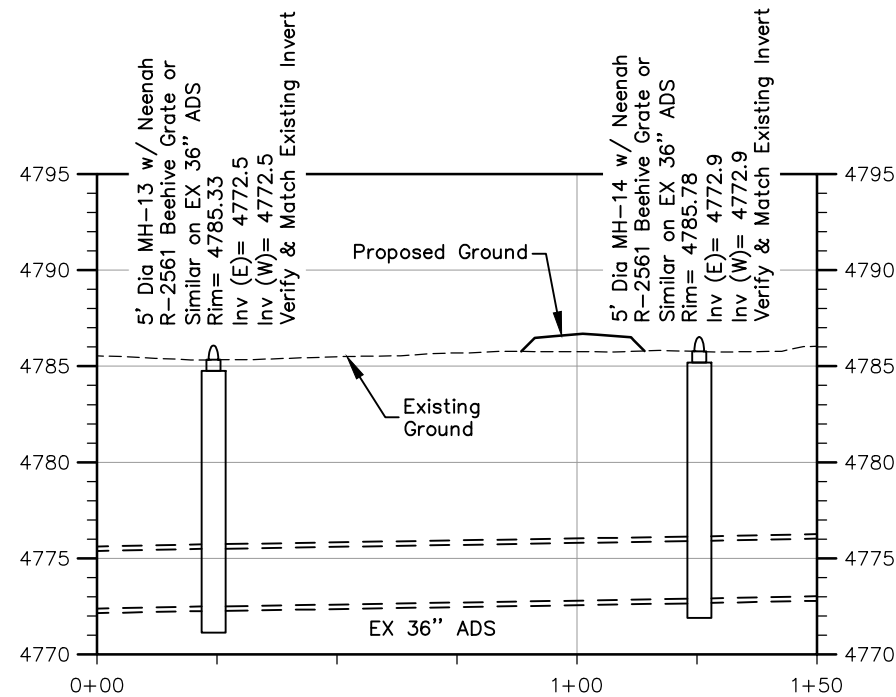
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No Revisions:		Designer: E. Schneider		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number STRM-003
Void:		Sheet Subset: STRM P&P	Subset Sheets: 3 of 6	Sheet Number





Notes:  
Re-grade area around the beehive grates so that the trapped water will drain to these inlets.  
Anchor beehive lids



STA 1097+75.37 to 1098+76.55 LT STORM SEWER PLAN LATERAL



STA 1097+75.37 to 1098+76.55 LT STORM SEWER PROFILE LATERAL

Print Date: 2/12/2024	
File Name: STRM P2A-004 STORM SEWER PLAN & PROFILE_LAT.DWG	
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	Ph: (303) 962-9300
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Sheet Revisions		
Date	Comments	Initials

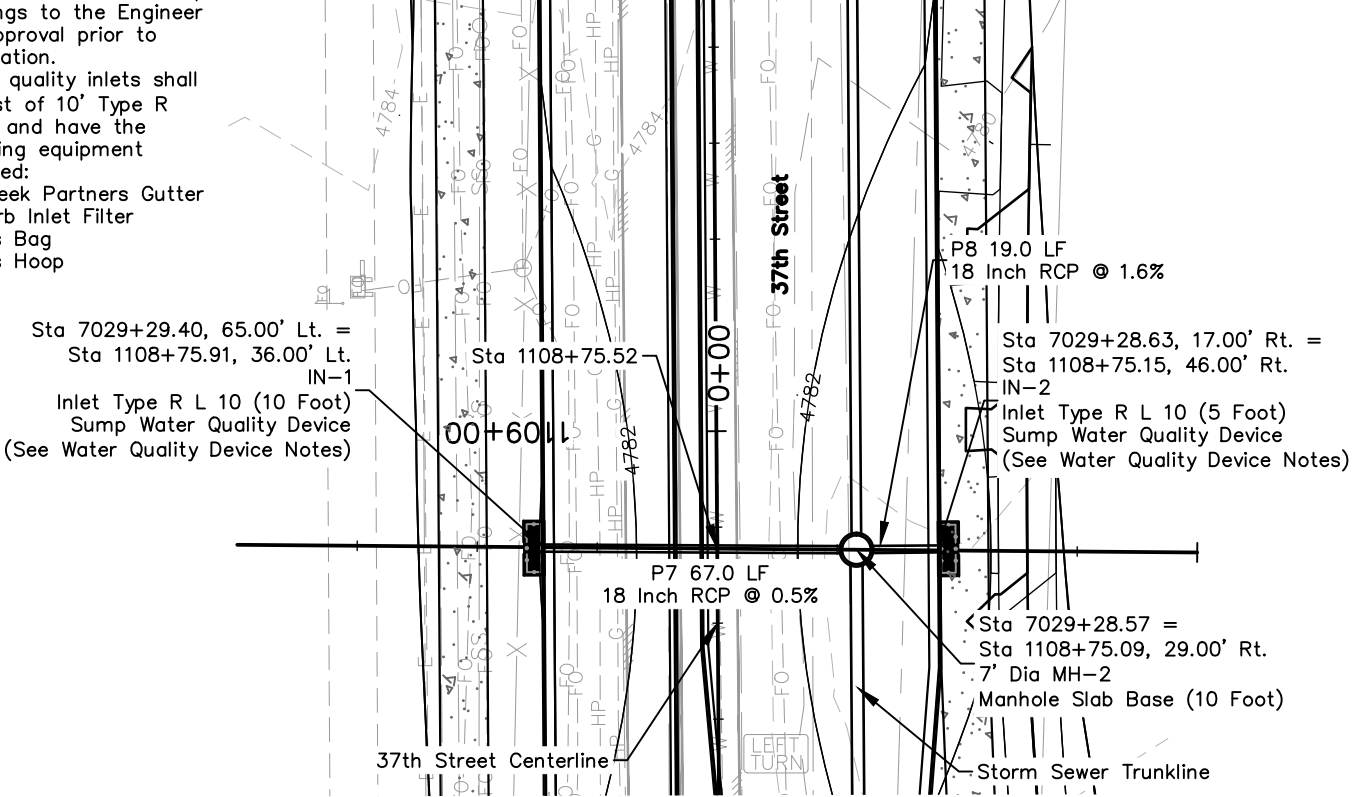
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		Revised:	Designer: E. Schneider	Structure Numbers		Drawing Number STRM-004	
	Detailer: J. Jensen						
Void:	Sheet Subset: STRM P&P	Subset Sheets: 4 of 6		Sheet Number			

Plot Date: 2/12/2024 1:10 PM Plotted By: Sarah Hemler  
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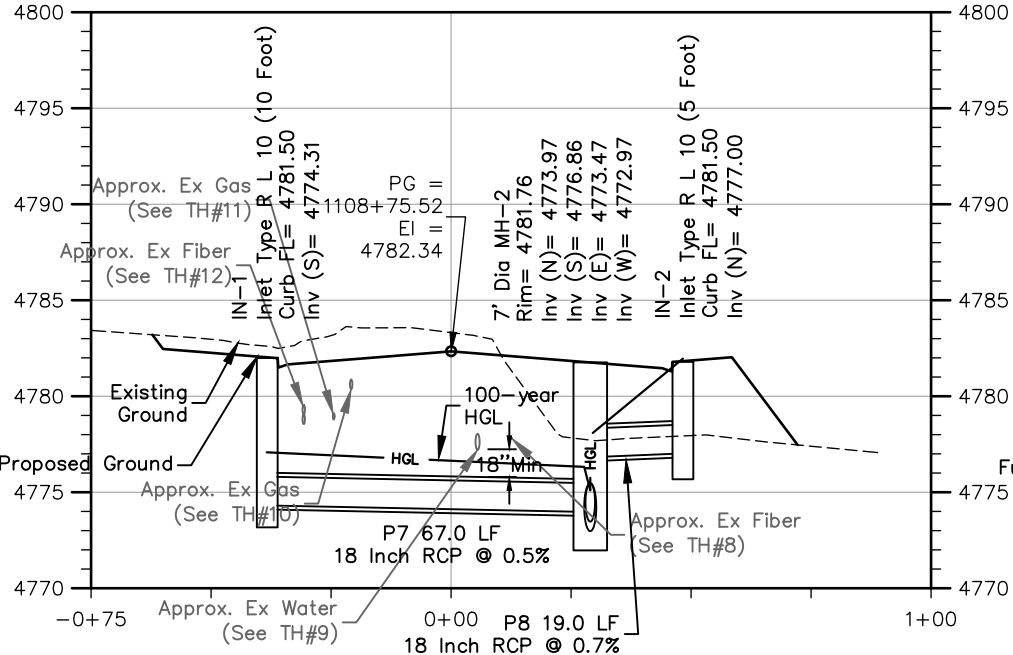
FOR CONSTRUCTION 2/24/2024

WATER QUALITY DEVICE NOTES

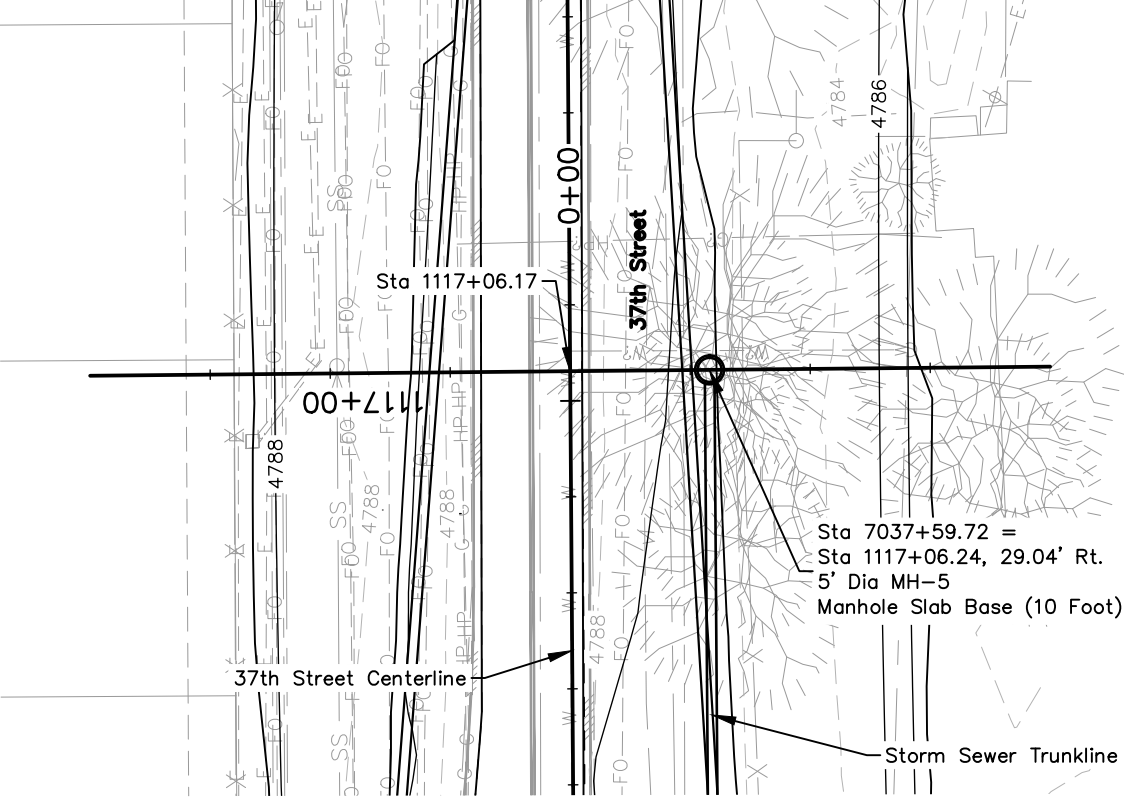
- 1. The Contractor shall submit construction shop drawings to the Engineer for approval prior to installation.
- 2. Water quality inlets shall consist of 10' Type R Inlets and have the following equipment installed:
  - Frog Reek Partners Gutter Bin Curb Inlet Filter
  - Mundus Bag
  - Mundus Hoop



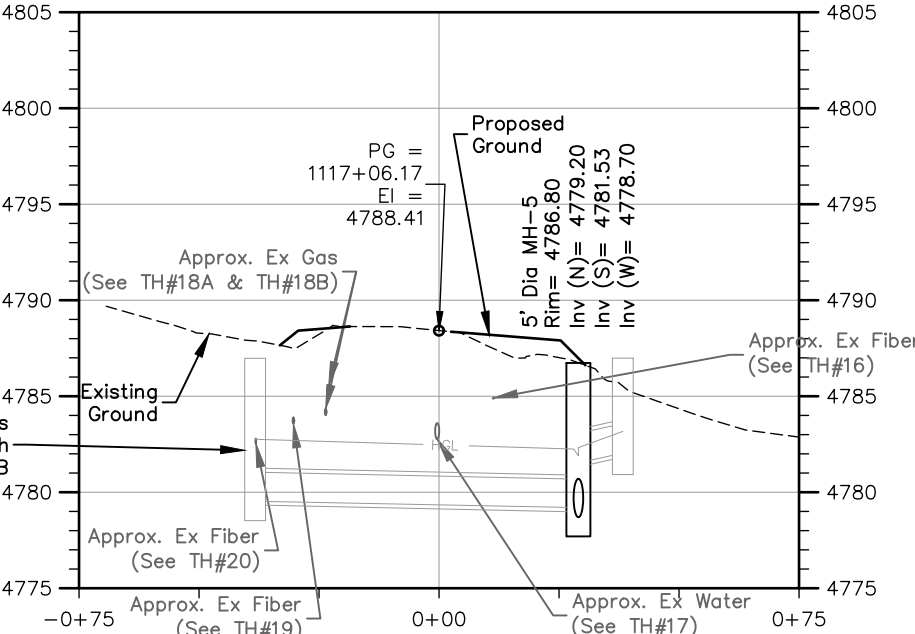
STA 1108+75.52 STORM SEWER PLAN LATERAL



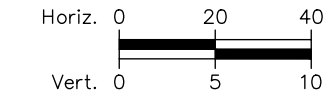
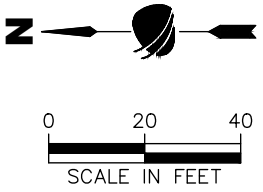
STA 1108+75.52 STORM SEWER PROFILE LATERAL



STA 1117+06.17 STORM SEWER PLAN LATERAL

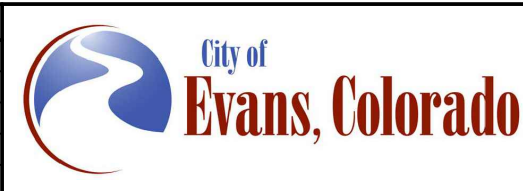


STA 1117+06.17 STORM SEWER PROFILE LATERAL



Print Date: 2/12/2024	
File Name: STRM P2A-004 STORM SEWER PLAN & PROFILE.LAT.DWG	
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	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials

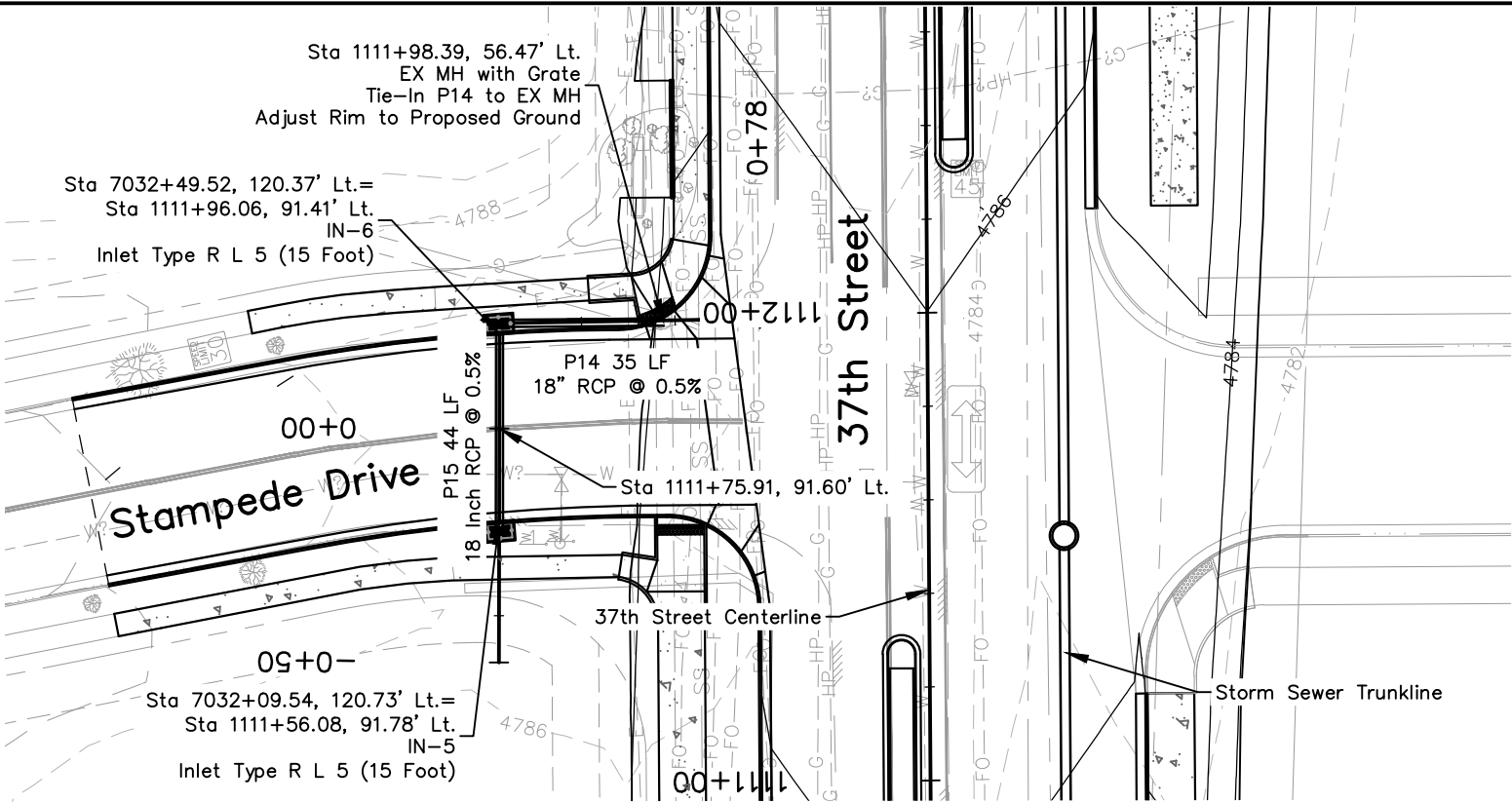


As Constructed	37TH STREET WIDENING PHASE 2A STORM SEWER PLAN & PROFILE LATERAL		Project No.
	No Revisions:		37TH STREET 2A
Revised:	Designer: E. Schneider	Structure Numbers	Drawing Number STRM-005
Void:	Detailer: J. Jensen		Sheet Number
	Sheet Subset: STRM P&P	Subset Sheets: 5 of 6	

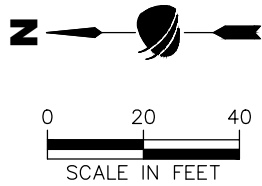
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FOR CONSTRUCTION 2/24/2024

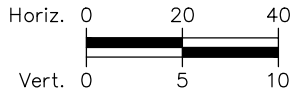
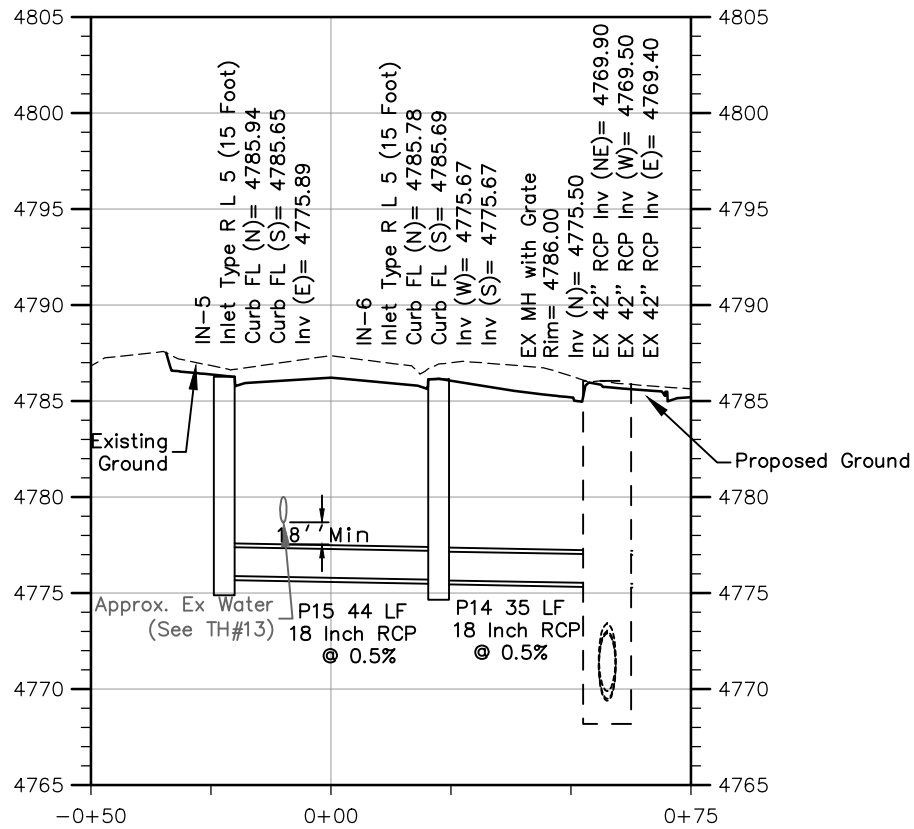
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STA 1111+76.03 LT STORM SEWER PLAN LATERAL



Note:  
Replace EX MH grate with solid lid. Swivel EX MH barrel top to avoid being in front of the ADA Ramp. All incidental to the adjust manhole work.



STA 1111+76.03 LT STORM SEWER PROFILE LATERAL

Print Date: 2/12/2024	
File Name: STRM P2A-004 STORM SEWER PLAN & PROFILE.LAT.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
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	Thornton, CO 80241
	Ph: (303) 962-9300
Fax: (303) 962-9350	

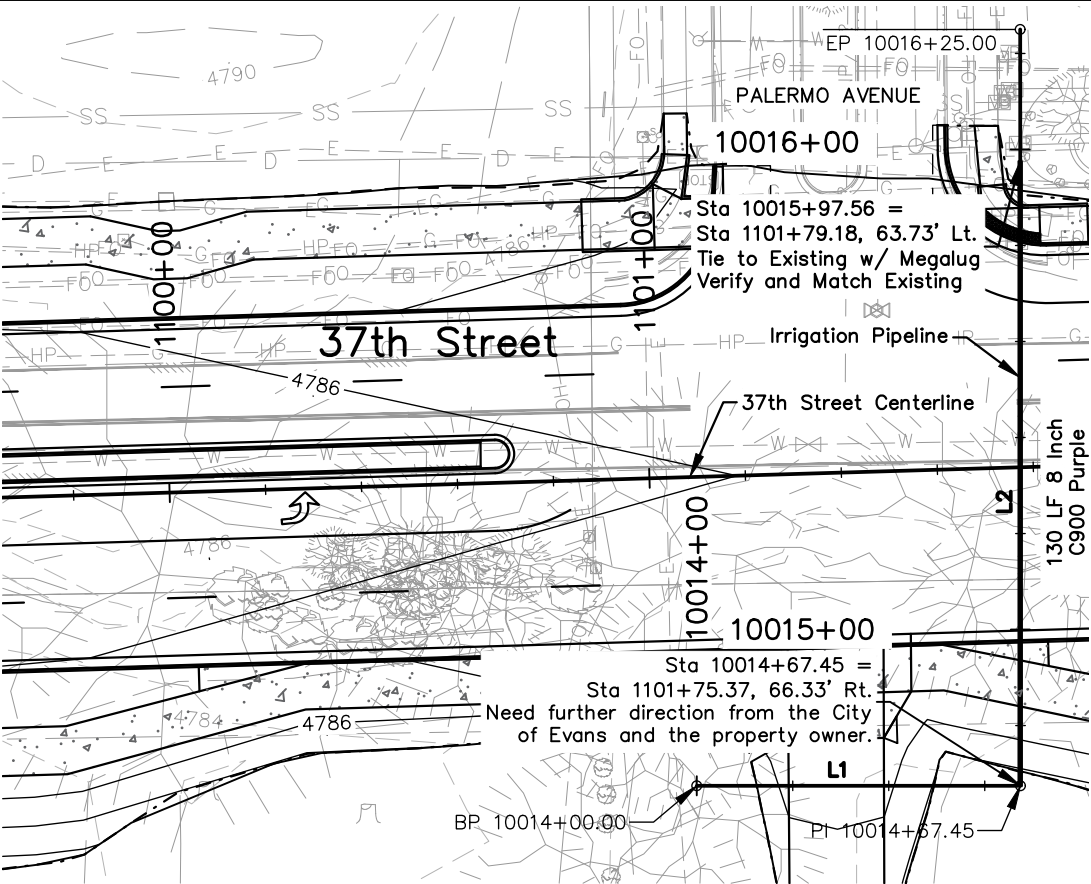
Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A STORM SEWER PLAN & PROFILE LATERAL		Project No.
No Revisions:				37TH STREET 2A
Revised:		Designer: E. Schneider	Structure Numbers	Drawing Number STRM-006
Void:		Detailer: J. Jensen		Sheet Number
		Sheet Subset: STRM P&P	Subset Sheets: 6 of 6	

FOR CONSTRUCTION 2/24/2024



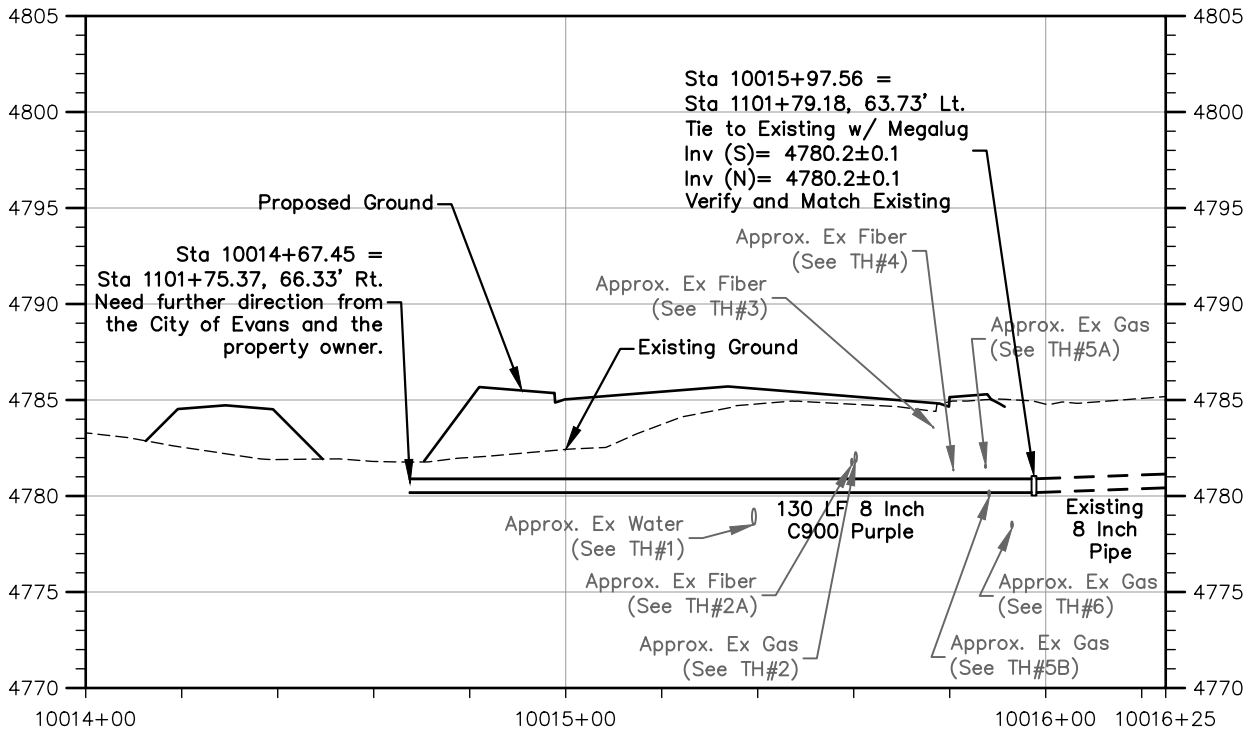


STA 10014+00 to STA 10016+25 IRRIGATION PLAN

IRRIGATION PIPELINE

ALIGNMENT LINE TABLE				
Line No.	Length	Direction	Start Northing	Start Easting
L1	67.45	N90° 00' 00"E	1381702.38	3210212.54
L2	157.55	N0° 01' 43"W	1381702.38	3210279.99

ALIGNMENT END				
Line No.	Length	Direction	End Northing	End Easting
L2	157.55	N0° 01' 43"W	1381859.93	3210279.91



STA 10014+00 to STA 10016+25 IRRIGATION PROFILE

Notes

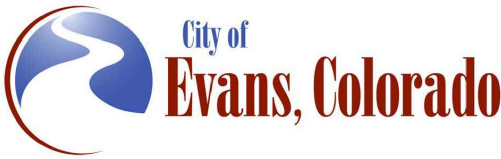
- Future construction west of Sta 10014+67.45 = Sta 1101+75.37, 66.33' Rt. to be constructed by others and must verify irrigation layout with irrigation owner.
- Irrigation design is conceptual and needs further discussions with the City of Evans and irrigation owner.



Know what's below.  
Call before you dig.

Print Date: 2/6/2024	
File Name: IRR P2A-001 IRRIGATION PLAN & PROFILE.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
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Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A IRRIGATION PLAN & PROFILE TRUNKLINE		Project No.
No Revisions:		Designer: T. Tuttle		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number IRR-001
Void:		Sheet Subset: IRR P&P	Subset Sheets: 1 of 1	Sheet Number 53

Plot Date: 2/19/2024 4:12 PM Plotted By: Sarah Hemler  
R:\Q-PROJECTS\WATER PROJECTS\33001 EVANS 37TH ST AND 47TH AVE PLAN\2024 COMPUTER DESIGN FILES\P2 - PHASE 2A\800\_SHEET FILES\WTR P2A-001 TAB AND NOTES.DWG

TABULATION OF WATER ITEMS					
STATION	SIDE	619-50640	619-75064	623-07006	REMARKS
		8 INCH PVC C900 DR18	8 INCH GATE VALVE	3/4 INCH WATER METER	
		LF	EACH	EACH	
1092+00.00	Lt. & Rt.	69	1		Includes work for installation and incidental items
1097+91.00	Lt.			1	Includes work for 3/4 Inch Copper Pipe and Removal of Existing Meter
1099+21.00	Lt.			1	Includes work for 3/4 Inch Copper Pipe and Removal of Existing Meter
1100+89.00	Rt.			1	Includes work for 3/4 Inch Copper Pipe and Removal of Existing Meter
1101+48.00	Lt. & Rt.	69	1		Includes work for installation and incidental items
1111+64.00	Lt. & Rt.	61	1		Includes work for installation and incidental items
1115+18.00	Rt.			1	Includes work for 3/4 Inch Copper Pipe and Connection to 1" Existing Service
TOTAL		199	3	4	

Note: For removal of valve, reset valve, reset of fire hydrant, and adjust manhole, see Tabulation of Removals, Resets, and Adjustments.

WATER LINE NOTES

1. WATER LINE DIMENSIONS ARE CALCULATED TO THE CENTER OF FITTINGS.
2. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
3. WATERLINE, FITTINGS, AND JOINT RESTRAINT TO BE CONSTRUCTED PER CITY OF EVANS STANDARD SPECIFICATIONS.
4. ALL WATERLINES SHALL BE CONSTRUCTED OF C900 PVC (DR-18).
5. ALL 6" WATERLINES SERVICING FIRE HYDRANTS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR C900 PVC (DR-18).
6. MECHANICAL JOINT RESTRAINT DEVICES FOR PVC PIPE SHALL BE EITHER MEGALUG 2000 PV SERIES OR APPROVED EQUAL AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
7. ALL PIPE SHALL BE INSTALLED WITH A MINIMUM OF FOUR (4) FEET SIX (6) INCHES OF COVER FROM FINISHED GRADE OF STREET TO THE TOP OF THE PIPE BARREL. 2" BLUEBOARD INSULATION SHALL BE PLACED DIRECTLY ABOVE THE PIPE IF LESS THAN FOUR (4) FEET SIX (6) INCHES OF COVER. BLUEBOARD INSULATION IS INCIDENTAL TO THE PROJECT.
8. FITTINGS, TEES, THRUST BLOCKS AND MEGALUGS ARE INCIDENTAL TO THE WATER MAIN.
9. TRACING WIRE, WATER MAIN CP TEST STATIONS, AND CATHODIC PROTECTION SHALL BE INCIDENTAL TO THE WATER MAIN. TRACER WIRE SHALL BE INSTALLED ON ALL PVC WATERLINES.




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As Constructed	37TH STREET WIDENING PHASE 2A WATERLINE TAB AND NOTES			Project No.
No Revisions:				37TH STREET 2A
Revised:	Designer: R. Parks	Structure		Drawing Number WTR-001
Void:	Detailer: R. Parks	Numbers		Sheet Number 54
Sheet Subset: WATER LINE		Subset Sheets: 1 of 1		

FOR CONSTRUCTION 2/24/2024

PROJECT LIST OF UTILITY CONTACTS						
NO.	COMPANY	ABBREVIATION	UTILITY TYPE	CONTACT NAME	EMAIL	PHONE
1	Atmos Energy	ATMOS	Gas	Jerry Adams	jerry.adams@atmosenergy.com	970-304-2075
2	CenturyLink	CTL	Fiber Optic	Gary Crispe	gcrispe@terratchllc.net	303-995-1456
3	City of Evans	City of Evans	Water and Sewer	Leon Blasco	lblasco@evanscolorado.gov	970-371-9089
4	Comcast	COMCAST	Fiber Optic	John Hamburg	john_hamburg@comcast.com	970-567-4797
5	DCP Midstream	DCP	Gas	Ivan Ansel	iansel@dcpmidstream.cpm	970-539-1806
6	Level 3 Communications	Level 3	Fiber Optic	Thomas Longan	thomas.longan@centurylink.com	720-878-6311
7	XCEL Energy Distribution	XCEL	Overhead and Underground Electric	Shayla Montano	shayla.a.montano@xcelenergy.com	970-381-9734
8	XCEL Energy Transmission	XCEL	Overhead and Underground Electric	William Braasch	william.braasch@xcelenergy.com	303-571-7082
9	Zayo	ZAYO	Fiber Optic	Tony Belford	tony@sctrl.com	801-364-1063

EXISTING		PROPOSED	
 OIL LINE (EXISTING QLB)	 ELECTRICAL UNDERGROUND LINE (EXISTING QLB)	 NON-POTABLE WATER LINE (PROPOSED)	FIRE HYDRANT            WATER METER            WATER VALVE            WATER MANHOLE
 OIL LINE (EXISTING QLD)	 ELECTRICAL UNDERGROUND LINE (EXISTING QLD)	 WATER LINE (PROPOSED)	
 GAS LINE LOW PRESSURE (EXISTING QLB)	 ELECTRICAL OVERHEAD LINE (EXISTING QLB)	 STORM SEWER PIPE (PROPOSED)	
 GAS LINE LOW PRESSURE (EXISTING QLD)	 ELECTRICAL OVERHEAD LINE (EXISTING QLD)	 IRRIGATION LINE (PROPOSED)	
 GAS LINE HIGH PRESSURE (EXISTING QLB)	 TEST HOLE LOCATION (QLA)		
 GAS LINE HIGH PRESSURE (EXISTING QLD)	 SANITARY SEWER MANHOLE		
 NON-POTABLE WATER LINE (EXISTING QLB)	 ELECTRICAL BOX		
 NON-POTABLE WATER LINE (EXISTING QLD)	 POWER POLE		
 WATER LINE (EXISTING QLB)	 GUY WIRE	 ELECTRICAL MANHOLE	
 WATER LINE (EXISTING QLD)	 ELECTRICAL VAULT OR TRANSFORMER		
 STORM SEWER PIPE (EXISTING QLD)	 FIRE HYDRANT	 WATER METER	
 SANITARY SEWER PIPE (EXISTING QLB)	 WATER VALVE	 WATER MANHOLE	
 SANITARY SEWER (EXISTING QLD)	 FIBER OPTIC PULLBOX	 FIBER OPTIC MANHOLE	
 IRRIGATION LINE (EXISTING QLD)	 FIBER OPTIC PEDESTAL		
 FIBER OPTICS UNDERGROUND CABLE (EXISTING QLB)	 FIBER OPTIC MARKER	 GAS MARKER	
 FIBER OPTICS UNDERGROUND CABLE (EXISTING QLD)	 OIL MARKER	 IRRIGATION VALVE BOX	

QLA = QUALITY LEVEL A  
 QLB = QUALITY LEVEL B  
 QLD = QUALITY LEVEL D

1. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS' DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." LOCATION OF EXISTING UTILITIES IS DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION AND REPRESENT CONDITIONS AT THE TIME OF DATA COLLECTION. THESE PLANS DO NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES AND PROCEDURES DURING EXCAVATION. PRIOR TO CONSTRUCTION, CONTRACTOR VERIFICATION OF LOCATION AND DEPTHS OF UTILITIES FOR DAMAGE PREVENTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULING. SHOULD ANY CONFLICTS, RECONSTRUCTION, OR INTERRUPTIONS IN SERVICE BE REQUIRED, THE CONTRACTOR SHALL COORDINATE UTILITY SCHEDULING.
3. THE CONTRACTOR SHALL CORRECTLY SHOW ON SUBMITTED DRAWINGS THE LOCATIONS OF ALL UTILITIES IN THE VICINITY WHERE THE CONTRACTOR MAY BORE, TRENCH, EXCAVATE, AND INSTALL CONDUIT, FIBER, FIBER ENCLOSURES, VAULTS, AND HANDHOLDS. IN THE EVENT THAT THE CONDUIT RUN, FIBER ENCLOSURES, VAULTS, OR HANDHOLDS ARE LOCATED WITHIN THE VICINITY OF ANY UTILITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION THAT WILL PREVENT DAMAGE TO THE INSTALLATION UNDER NORMAL UTILITY OPERATING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN INFORMATION ON EACH OF THE UTILITIES AS APPLICABLE SUCH AS GAS PRESSURE, STEAM, AND WATER PRESSURES, TEMPERATURES, ETC.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE FOR EVIDENCE OF FAILURES OF OR DEFICIENCIES IN UTILITY COMPANY FACILITIES (I.E. XCEL, CENTURYLINK, ETC) AND TO IMMEDIATELY CALL ANY SUCH EVIDENCE OF PRE-EXISTING DAMAGE TO THE ATTENTION OF THE UTILITY COMPANY ALONG WITH PROPER DOCUMENTATION. THE CONTRACTOR HEREBY AGREES THAT THE REPAIR OF ANY AND ALL DAMAGES (DIRECT AND INDIRECT), THAT MAY BE SUBSEQUENTLY DISCOVERED AND PROVEN TO HAVE BEEN CAUSED BY THE CONSTRUCTION ACTIVITIES, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR WITHOUT SUCH EVIDENCE OF PRE-EXISTING DAMAGE. THE CONTRACTOR HEREBY AGREES THAT ANY AND ALL DAMAGES (DIRECT OR INDIRECT) TO UTILITY COMPANY FACILITIES, WHICH ANY BE SUBSEQUENTLY DISCOVERED WITHIN THOSE AREAS WHERE CONSTRUCTION OCCURRED WITHIN SIX FEET OF UTILITY COMPANY FACILITIES (DIRECT OR INDIRECT), AND WITHIN A PERIOD OF THREE YEARS FROM THE DATE OF CONSTRUCTION, WERE CAUSED BY THE CONSTRUCTION ACTIVITIES. FURTHERMORE, THE REPAIR IS AGREED TO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITY COMPANY FACILITIES WITHIN THE AREA OF CONSTRUCTION. THIS INCLUDES ALL STEPS NECESSARY TO PREVENT SUBSIDENCE OF THE SOIL ADJACENT TO OR NEAR UTILITY COMPANY FACILITIES.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ANY TEMPORARY ROADWAY PATCHES THAT MAY OCCUR IN ORDER TO REOPEN A ROADWAY WHILE CONSTRUCTION ACTIVITY PROGRESSES, UNTIL SUCH TIME A PERMANENT PATCH CAN BE INSTALLED.
6. DURING CONSTRUCTION WHENEVER ANY PIPELINE IS LEFT UNATTENDED, TEMPORARY PLUGS SHALL BE INSTALLED AT ALL OPENINGS. TEMPORARY PLUGS SHALL BE WATERTIGHT, AND OF SUCH DESIGN AS TO PREVENT CHILDREN AND ANIMALS FROM ENTERING THE PIPE.
7. THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING PRIOR TO ANY DISTURBANCE IN SERVICE. THE NOTICES MUST HAVE THE CONTRACTORS PHONE NUMBER, THE NAME OF A CONTACT PERSON, AND AN EMERGENCY PHONE NUMBER FOR AFTER HOURS CALLS. NOTICES SHALL BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.
8. COMPACTION OF ALL UTILITY TRENCHES INCLUDING DRY UTILITIES SHALL BE PERFORMED TO 95% DENSITY OF THE STANDARD PROCTOR +/-2%.
9. ALL POTABLE WATER, NON-POTABLE WATER, AND SANITARY SEWER SERVICES SHALL HAVE THEIR APPROXIMATE LOCATIONS STAMPED IN THE CONCRETE CURB AND GUTTER WITH THE INITIALS "W", "NP", AND "S" RESPECTIVELY. ADDITIONAL STAMPS FOR GAS "G" AND ELECTRIC "E" MAY ALSO BE NECESSARY AND ARE AT THE DISCRETION OF THE CONTRACTOR TO PERFORM.



FOR CONSTRUCTION 2/24/2024



[illegible]

POTHOLE NUMBER	UTILITY TYPE	UTILITY OWNER	UTILITY SIZE	UTILITY MATERIAL	SURFACE ELEVATION	DEPTH TO TOP OF UTILITY (IN.)	DEPTH TO TOP OF UTILITY (FT.)	UTILITY TOP OF PIPE (TOP) ELEV.	NOTES
101	HP GAS	ATMOS	6-INCH	BLACK STEEL	4780.9	36	3.00	4777.9	
102	FIBER OPTIC	LEVEL 3	2-INCH	ORANGE POLY	4780.6	53	4.42	4776.2	
103	FIBER OPTIC	CENTURYLINK	-	-	4780.7	61	5.08	4775.6	
104	ELECTRIC	XCEL	-	-	4780.7	50	4.17	4776.5	
105	HP GAS	ATMOS	6-INCH	BLACK STEEL	4785.0	35	2.92	4782.1	
106	FIBER OPTIC	LEVEL 3	2-INCH	ORANGE POLY	4784.9	60	5.00	4779.9	
1	WATER	CITY OF EVANS	10-INCH	STEEL	4784.7	65	5.42	4779.3	
2	GAS	ATMOS	6-INCH	STEEL	4784.8	30	2.50	4782.3	
2A	FIBER OPTIC	CENTURYLINK	4-INCH	PVC	4784.8	34	2.83	4782.0	
3	FIBER OPTIC	CENTURYLINK	1/4-INCH	PVC	4784.7	10	0.83	4783.9	
4	FIBER OPTIC	CENTURYLINK	1/4-INCH	PVC (BLACK)	4784.8	43	3.58	4781.2	
5A	FIBER OPTIC	CENTURYLINK	2-INCH	PVC	4785.0	40.5	3.38	4781.6	
5B	GAS	ATMOS	4-INCH	STEEL	4785.0	56.75	4.73	4780.3	
6	GAS	DCP	4-INCH	STEEL	4785.0	76	6.33	4778.7	
7	ELECTRIC	XCEL	6-INCH	PVC	4784.8	45	3.75	4781.1	
107	HP GAS	ATMOS	6-INCH	BLACK STEEL	4783.8	36	3.00	4780.8	
108	FIBER OPTIC	CENTURYLINK	-	-	4783.5	61	5.08	4778.4	
109	FIBER OPTIC	CENTURYLINK	-	-	4783.5	-	-	-	Did Not Find
8	FIBER OPTIC	CENTURYLINK	1/4-INCH	PVC	4781.0	42	3.50	4777.5	
9	WATER	CITY OF EVANS	10-INCH	STEEL	4783.0	61	5.08	4777.9	
10	GAS	ATMOS	6-INCH	STEEL	4783.3	33	2.75	4780.6	
11	GAS	ATMOS	4-INCH	STEEL	4783.0	49	4.08	4778.9	
12	FIBER OPTIC	CENTURYLINK	2 X 6-INCH	PVC	4782.3	40	3.33	4779.0	
13	WATER	CITY OF EVANS	16-INCH	STEEL	4786.7	84	7.00	4779.7	
110	HP GAS	ATMOS	6-INCH	BLACK STEEL	4786.0	36	3.00	4783.0	
111	HP GAS	ATMOS	4-INCH	RED STEEL	4785.9	48	4.00	4781.9	
112	FIBER OPTIC	CENTURYLINK	2 x 4-INCH	BLACK POLY	4785.4	49	4.08	4781.3	
113	FIBER OPTIC	LEVEL 3	2-INCH	ORANGE POLY	4786.3	93	7.75	4778.6	
114	FIBER OPTIC		2-INCH	ORANGE POLY	4786.5	58	4.83	4781.7	
115	HP GAS	ATMOS	6-INCH	BLACK STEEL	4788.2	40	3.33	4784.8	
116	HP GAS	ATMOS	4-INCH	RED STEEL	4788.2	52	4.33	4783.9	
117	FIBER OPTIC	CENTURYLINK	2 x 6-INCH	WHITE PVC	4787.8	39	3.25	4784.6	Stacked
118A	FIBER OPTIC	LEVEL 3	2-INCH	ORANGE POLY	4787.7	49	4.08	4783.6	
118B	FIBER OPTIC	CENTURYLINK	1-INCH	BLACK POLY	4787.7	59	4.92	4782.7	
119	FIBER OPTIC	ZAYO	2 x 2-INCH	ORANGE POLY & BLUE POLY	4788.2	67	5.58	4782.6	Side by Side
14	GAS	ATMOS	-	-	-	-	-	-	Did Not Locate - Abandoned
15	WATER	CITY OF EVANS	-	-	4784.7	-	-	-	Did Not Locate
16	FIBER OPTIC	CENTURYLINK	1/4-INCH	PVC	4787.2	31	2.58	4784.6	
17	WATER	CITY OF EVANS	10-INCH	STEEL	4788.1	58	4.83	4783.3	
18A	GAS	ATMOS	6-INCH	STEEL	4788.3	35.5	2.96	4785.3	
18B	GAS	ATMOS	4-INCH	STEEL	4788.3	50	4.17	4784.1	
19	FIBER OPTIC	LEVEL 3	2 X 4-INCH	PVC	4787.3	43.5	3.63	4783.7	
20	FIBER OPTIC	ZAYO	2-INCH & 1/2-INCH	PVC	4787.7	61	5.08	4782.6	



Notes:

1. Testholes 1–20 performed on March 1, 2, 3, 4, 7, 2022.
2. Testholes 101–119 performed on September 19, 20, 21, 22, 2023.

Print Date: 2/19/2024

File Name: UTGN P2A-001 TEST HOLE TABLE.DWG

Horiz. Scale: N/A	Vert. Scale: N/A
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12076 Grant Street



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Consulting Group, Inc.

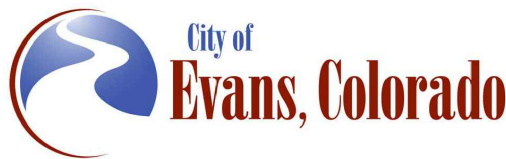
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## Sheet Revisions

Date:

## Comments

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### 37TH STREET WIDENING PHASE 2A TEST HOLE TABLE

Designer	
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R. Parks

Structure

Sheet Subject:

UTUL CEN Subject Sheets: 2 of 2

Project No.

37TH STREET

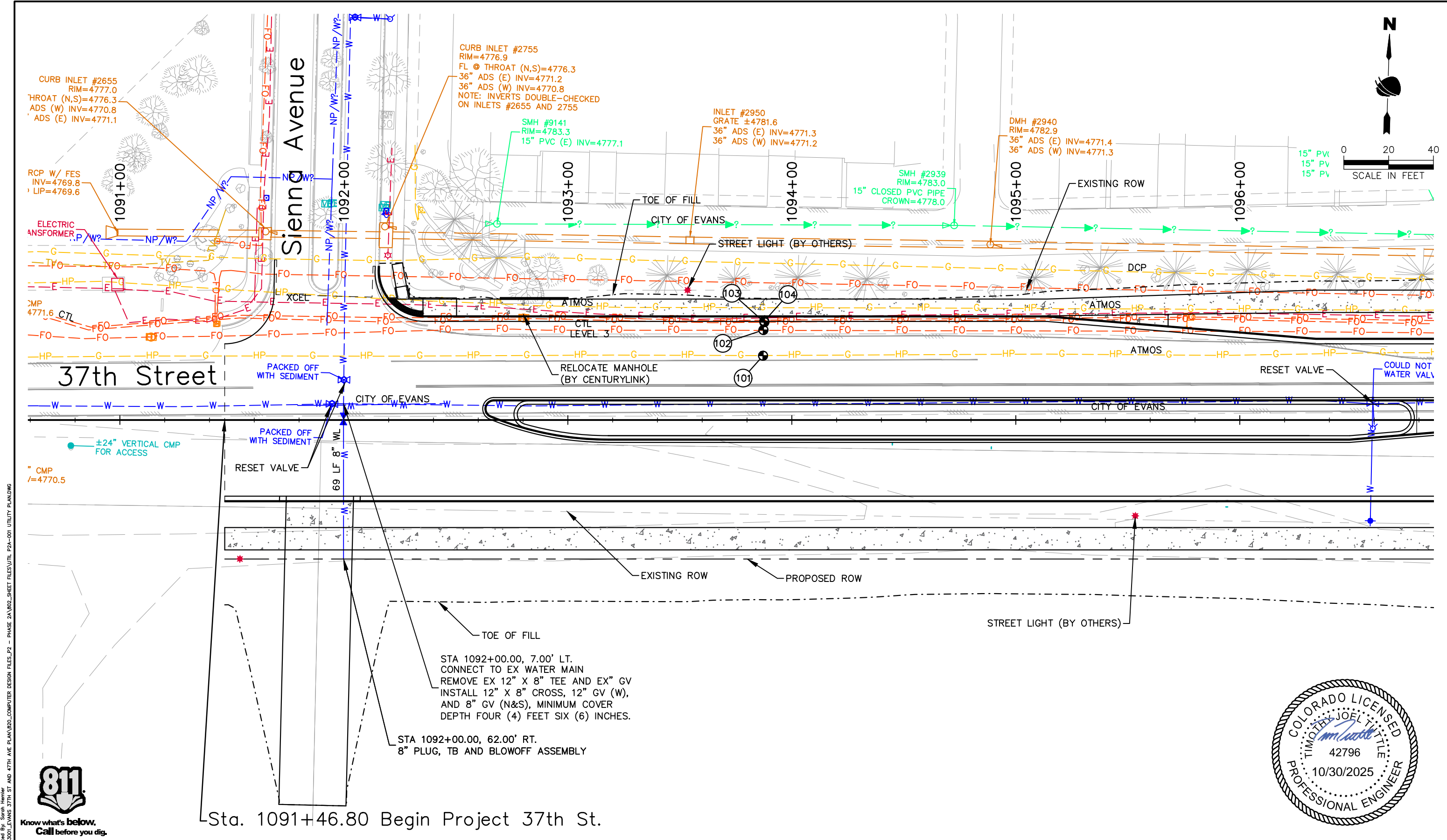
Drawing Number UTGN-002

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811

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37TH STREET WIDENING PHASE 2A  
UTILITY PLANS

Designer: R. Parks

Detailer: R. Parks

Sheet Subset: UTILITIES

Structure Numbers

Subset Sheets: 1 of 5

Project No.

37TH STREET 2A

Drawing Number UTIL-001

Sheet Number 57

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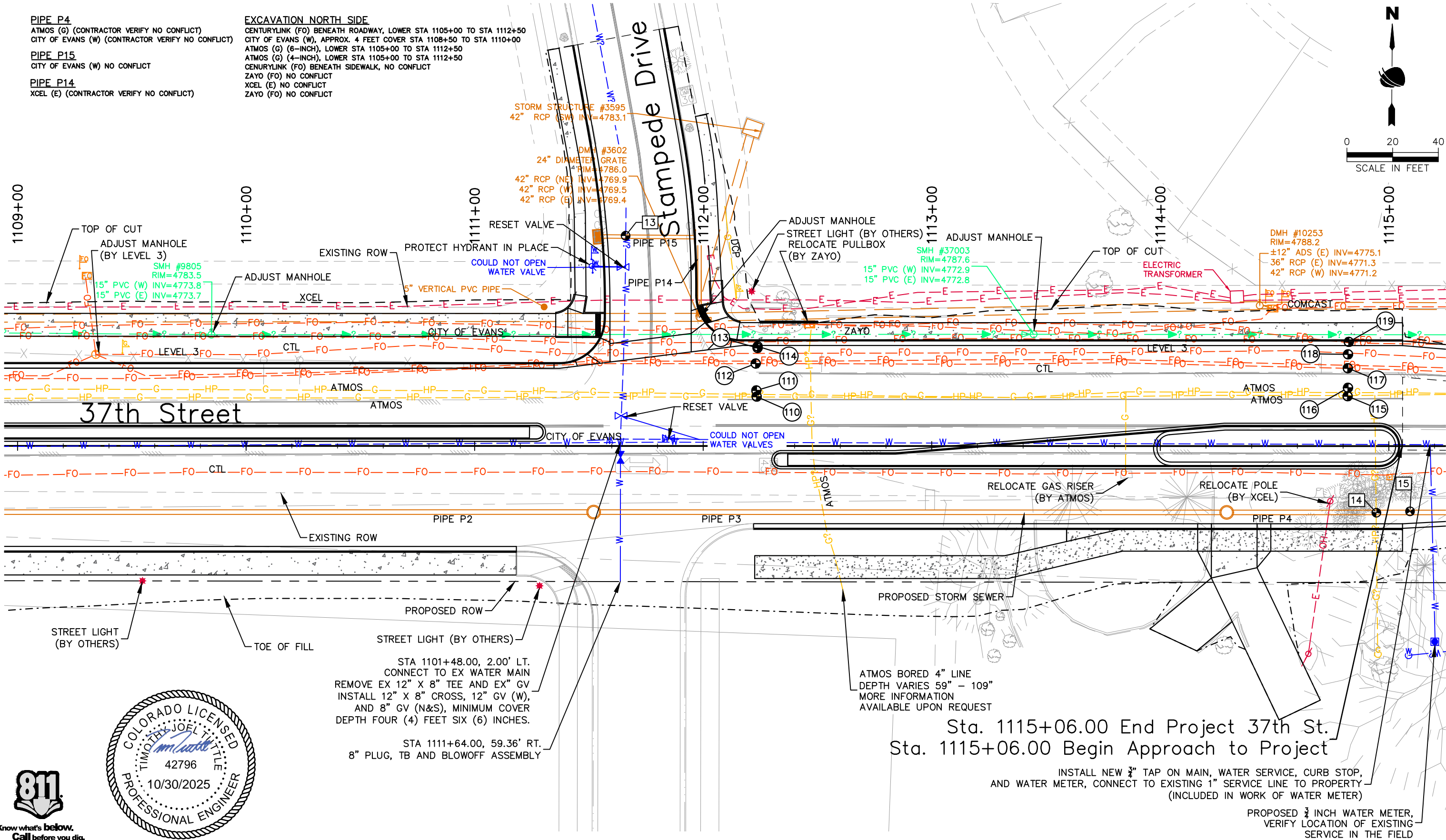






PIPE P4  
ATMOS (G) (CONTRACTOR VERIFY NO CONFLICT)  
CITY OF EVANS (W) (CONTRACTOR VERIFY NO CONFLICT)  
PIPE P15  
CITY OF EVANS (W) NO CONFLICT  
PIPE P14  
XCEL (E) (CONTRACTOR VERIFY NO CONFLICT)

EXCAVATION NORTH SIDE  
CENTURYLINK (FO) BENEATH ROADWAY, LOWER STA 1105+00 TO STA 1112+50  
CITY OF EVANS (W), APPROX. 4 FEET COVER STA 1108+50 TO STA 1110+00  
ATMOS (G) (6-INCH), LOWER STA 1105+00 TO STA 1112+50  
ATMOS (G) (4-INCH), LOWER STA 1105+00 TO STA 1112+50  
CENTURYLINK (FO) BENEATH SIDEWALK, NO CONFLICT  
ZAYO (FO) NO CONFLICT  
XCEL (E) NO CONFLICT  
ZAYO (FO) NO CONFLICT



Sta. 1115+06.00 End Project 37th St.  
Sta. 1115+06.00 Begin Approach to Project

INSTALL NEW 3/4" TAP ON MAIN, WATER SERVICE, CURB STOP,  
AND WATER METER, CONNECT TO EXISTING 1" SERVICE LINE TO PROPERTY  
(INCLUDED IN WORK OF WATER METER)

PROPOSED 3/4" INCH WATER METER,  
VERIFY LOCATION OF EXISTING  
SERVICE IN THE FIELD

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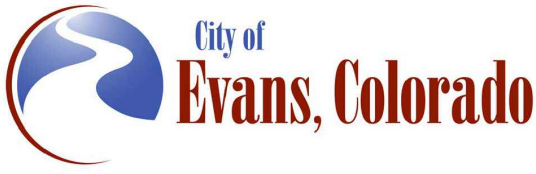
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### 37TH STREET WIDENING PHASE 2A UTILITY PLANS

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

Structure Numbers  
Subset Sheets: 4 of 5

### Project No.

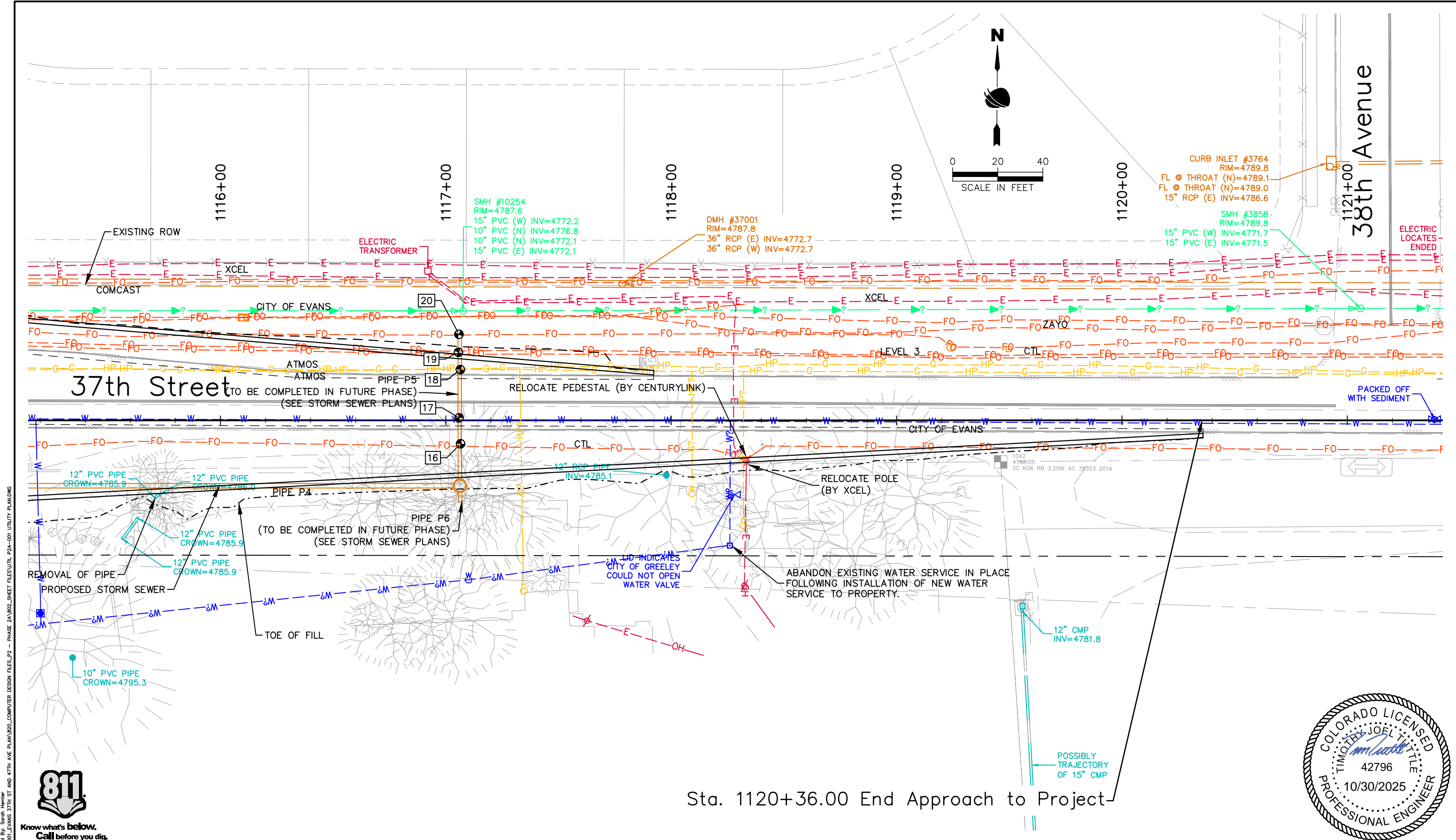
37TH STREET 2A

Drawing Number UTIL-004

Sheet Number 60

FOR CONSTRUCTION 2/24/2024





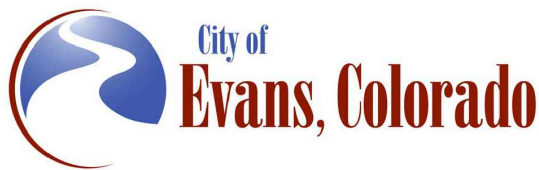
Plot Date: 2/19/2024 4:04 PM Plotted By: Sarah Hamer  
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37TH STREET WIDENING PHASE 2A UTILITY PLANS		
Designer:	R. Parks	Structure
Detailer:	R. Parks	Numbers
Sheet Subset:	UTILITIES	Subset Sheets: 5 of 5

Project No.
37TH STREET 2A
Drawing Number UTIL-005
Sheet Number 61



FOR CONSTRUCTION 2/24/2024



Plot Date: 2/7/2024 11:00 AM Plotted By: Sarah Hamler  
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STORMWATER MANAGEMENT PLAN

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 to reflect current project site conditions.

- A. PROJECT SITE LOCATION: The project is located along 37<sup>th</sup> Street between Sienna Avenue to Stampede Drive and transition back to the existing roadway.
- B. PROJECT SITE DESCRIPTION: The project will include roadway widening from two lanes to four lanes, raised medians, curb and gutter, landscaping, extended sidewalks, and storm sewer system with offsite outfall to Ashcroft Draw.
- C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES: Construction activities include, clearing and grubbing, grading, drainage improvements, and landscaping. Construction will begin with installation of initial control measures before clearing and grubbing. Followed by grading activities, paving, signing and striping, median landscaping, and permanent revegetation.
- D. ACRES OF DISTURBANCE:
- 1. Total area of construction site (LOC (PERMITTED AREA)): 12.2 acres
  - 2. Total area of proposed disturbance (LDA): 9.6 acres
  - 3. Total area of seeding: 2.1 acres
- E. EXISTING SOIL DATA: Dominant site soils consist of Otero sandy loam and Aquolls and Aquents, gravelly substratum. Other small percentages include Otero sandy loam, Kim loam soil types, and Vona loamy sand. Otero soil type consists of Hydrologic Soil Group A, with a very low surface runoff potential. Aquolls and Aquents soil type consists of Hydrologic Soil Group D, with a high surface runoff potential when thoroughly wet.

Data Source: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

F. EXISTING VEGETATION, INCLUDING PERCENT COVER:

A survey including general description of existing vegetation shall be conducted by the SWMP Administrator for Construction prior to any ground disturbance on the project. The SWMP Administrator shall photo-document existing vegetation where all work will be occurring.

G. POTENTIAL POLLUTANTS SOURCES: See First Construction Activities under Potential Pollutant Sources. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25 of CDOT Standards and Specifications.

H. RECEIVING WATER:

- 1. Outfall locations: This project outfalls to the City of Evans MS4
- 2. Names of immediate receiving water(s) on site: Unnamed roadside ditches
- 3. Ultimate receiving water(s): Ashcroft Draw, South Platte River
- 4. Horizontal distance to nearest ultimate receiving water from project: Approximately 0.2 miles to Ashcroft Draw and approximately 1.6 miles to South Platte River
- 5. Description of all stream crossings located within the Construction Site Boundary: Not applicable

I. NON-STORMWATER DISCHARGES: SWMP Administrator for Construction shall provide a method statement of how discharge will be handled.

Discharge Description	Location (Site Map #)	Method Statement (Location)
Dewatering*		
Uncontaminated Spring		
Concrete Wash Water (in-ground washout structure)		
Landscape Irrigation Return Flows		
Emergency Fire Fighting		
Concrete Saw Water		

ALLOWABLE: Refer to CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land.

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

\*If ground water 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 of CDOT Standards and Specifications.

2. SITE MAP COMPONENTS:

Pre-construction

- A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES – See SWMP Site Maps
- B. ALL AREAS OF GROUND SURFACE DISTURBANCE – See SWMP Site Maps
- C. AREAS OF CUT AND FILL – See SWMP Site Maps
- D. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP – See SWMP Site Maps
- E. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP – See SWMP Site Maps
- F. STREAMS, SPRINGS, WETLANDS AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER – Not applicable
- G. PROTECTION OF TREES, SHRUBS AND CULTURAL RESOURCES – See Landscape Plans and Tree Protection Notes in Landscape Plans
- H. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE AND RUNOFF DIRECTION – See SWMP Site Maps
- I. AREAS USED FOR STORING AND STOCKPILING MATERIALS, STAGING AREAS (field trailer, fueling, etc.) WASTE ACCUMULATION AND BATCH PLANTS INCLUDING MASONARY MIXING STATIONS – See SWMP Site Maps
- J. LOCATIONS OF ALL STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY – See SWMP Site Maps

3. QUALIFIED STORMWATER MANAGERS:

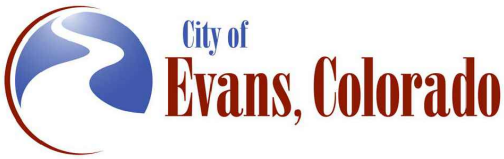
A. SWMP ADMINISTRATOR FOR DESIGN:

Name/Title	Contact Information	CDOT SWMP Preparer Certification #
Jovonna Kirkling/Environmental Specialist	kirkling@rocksol.com/303-913-2193	2FE4F476

B. SWMP Administrator for Construction: (As defined in Section 208 of CDOT Standards and Specifications) The Contractor shall designate a SWMP Administrator for Construction upon 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 subsection 208.03 of the CDOT Standards and Specifications. 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).

Print Date: 2/7/2024	
File Name: ENVI P2A-001 SWMP NARRATIVE.DWG	
Horiz. Scale: N/A	Vert. Scale: N/A
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	Thornton, CO 80241
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Sheet Revisions		
Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN SWMP NARRATIVE		Project No.
No Revisions:			37TH STREET 2A
Revised:	Designer: J. Kirkling	Structure Numbers	Drawing Number ENVI-001
Void:	Detailer: J. Kirkling		
Sheet Subset: SWMP		Subset Sheets: 1 of 21	Sheet Number 62

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

C. **EROSION CONTROL INSPECTOR:** (As defined in Section 208 of CDOT Standards and Specifications)  
The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03(c)of CDOT Standards and Specifications.

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

**4. STORMWATER MANAGEMENT CONTROLS 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 of CDOT Standards and Specifications, 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)**

1. 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 of CDOT Standards and Specifications.

C. **VEHICLE TRACKING CONTROL STRIP**

1. Control measures shall be implemented in accordance with Section 2.01.10 of City of Evans Standards and Specifications.

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 of CDOT Standards and Specifications.  
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**

The SWMP is a "living document" that is continuously reviewed and modified throughout the construction phasing. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator for Construction in accordance with subsection 208.03 of CDOT Standards and Specifications. During construction, indicate how items that have not been addressed during design are being handled in construction.

A. **STOCKPILE MANAGEMENT:** Shall be done in accordance with Section 2.01.10 of City of Evans Standards and Specifications.

B. **CONCRETE WASHOUT:** Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05 of CDOT Standards and Specifications.

C. **SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, and 208.05 of CDOT Standards and Specifications.

D. **STREET SWEEPING:** Shall be done in accordance with subsection 208.04 of CDOT Standards and Specifications.

**6. INSPECTIONS**

A. Inspections shall be in accordance with Section 2.01.06 of City of Evans Standards and Specifications and subsection 208.03(c) of CDOT Standards and Specifications.

**7. CONTROL MEASURE MAINTENANCE**

A. Maintenance shall be in accordance with Section 2.01.10 of City of Evans Standards and Specifications and subsection 208.04(f) of CDOT Standards and Specifications.

**8. RECORD KEEPING**

A. Records shall be kept in accordance with subsection 208.03(d) of CDOT Standards and Specifications.

**9. INTERIM, PERMANENT STABILIZATION, and LONG-TERM STORMWATER MANAGEMENT**

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with Section 2.01.11 of City of Evans Standards and Specifications.

A. **SEEDING PLAN**

Seeding will be required for an estimated total of 2.4 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

Type I Seed Mix: For use in ground surface disturbance between curb and sidewalk, areas shown on site maps.

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
buffalograss	<i>Buchloe dactyloides</i>	13.2
blue grama grass	<i>Bouteloua gracilis</i>	8.8
TOTAL		22.0

Type II Seed Mix: Short grass for use in all other ground surface disturbances including, from sidewalk to edge of cut/fill areas. Areas shown on site maps. Refer to Landscaping Plans for ornamental tree/shrub plantings within these areas.

COMMON NAME	BOTANICAL NAME	% LBS. PLS PER ACRE (11 LBS. PER ACRE)
blue grama grass	<i>Bouteloua gracilis</i>	3.0
Sideoats grama	<i>Bouteloua curtipendula</i>	3.0
little bluestem (Pastura, Blaze)	<i>Schizachyrium scoparium</i>	2.8
sand dropseed	<i>Sporobolus cryptandrus</i>	1.1
sand lovegrass (Nebraska 27)	<i>Eragrostis trichoides</i>	1.1
TOTAL		11.0

B. **SEEDING APPLICATION:** Drill seed 0.25 inch to 0.75 inch into the soil at the specified PLS per acre rate with a mechanical grass drill with depth bands and an agitator in the seed box. Rows shall be spaced not more than seven inches apart in accordance with Section 2.01.11 of City of Evans Standards and Specifications. In small areas not accessible to a drill, hand broadcast or hydroseed at double the PLS rate per acre and rake 0.25 inch to 0.5 inch into the soil per Section 212 of CDOT Standards and Specifications.

C. **MULCHING APPLICATION:** Apply a minimum of 4,000 pounds of certified weed free straw per acre and in accordance with Chapter 2 of City of Evans Standards and Specifications, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

1. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free straw) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213 of CDOT Standards and Specifications.


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Print Date: 2/7/2024

File Name: ENVI P2A-001 SWMP NARRATIVE.DWG


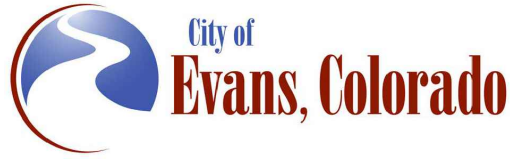
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Sheet Revisions		
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No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
SWMP NARRATIVE

Designer: J. Kirkling

Detailer: J. Kirkling

Sheet Subset: SWMP

Structure Numbers

Subset Sheets: 2 of 21

Project No.

37TH STREET 2A

Drawing Number ENVI-002

Sheet Number 63



- D. SPECIAL REQUIREMENTS:  
1. Due to high failure rates, hydroseeding will not be allowed for permanent stabilization.
- E. SOIL AMENDMENTS REQUIREMENTS: Minimum amendment material requirements for all disturbances to receive seeding.  
1. Compost shall be applied at 4 CY per 1000 SF over the designated areas in accordance with Section 2.01.11 of City of Evans Standards and Specifications.
- F. SOIL RETENTION COVERING: On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier and placed after seeding (native). See SWMP Site Map for blanket/trm locations.
- G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:  
Prior to partial acceptance.  
1. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- A. Partial Acceptance shall be in accordance with Section 2.01.10 of City of Evans Standards and Specifications and subsections 107.25 (d), 208.10 and 214.04 of CDOT Standards and Specifications. At the Partial Acceptance of the project, it shall be determined by the SWMP Administrator for Construction and the Engineer which temporary control measures shall remain until 80% revegetation is established or which shall be removed.
- B. At the end of the project, all ditch checks shall either consist of temporary erosion logs (or equivalent) or permanent riprap.

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Print Date: 2/7/2024		<div></div> <div></div> <div></div> <div></div> <div></div>	Sheet Revisions			 	As Constructed		37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN SWMP NARRATIVE		Project No.
File Name: ENVI P2A-001 SWMP NARRATIVE.DWG			Date	Comments	Initials		No Revisions:				37TH STREET 2A
Horiz. Scale: N/A      Vert. Scale: N/A							Revised:		Designer: J. Kirkling	Structure	Drawing Number ENVI-003
 <div>12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350</div>							Void:		Detailer: J. Kirkling	Numbers	
									Sheet Subset: SWMP      Subset Sheets: 3 of 21		Sheet Number 64



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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 added 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 "P" 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.			P	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 mature trees and/or existing landscaping prior to start of construction disturbances.			P 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		P 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		P 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 start of construction disturbances.	M-208		P	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 start of construction disturbances.	M-208		P	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 stockpile, increase control as 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		P or X	X	
SEDIMENT CONTROL/SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to 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 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	
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208			X	X
OUTLET PROTECTION Riprap, or approved other	Material placed as energy dissipator to prevent erosion at outlet structure.	M-601-12			X	X
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to 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 start of construction disturbances.	M-208		P	X	
ENGINEERED SEDIMENT BASIN	Constructed early in 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	

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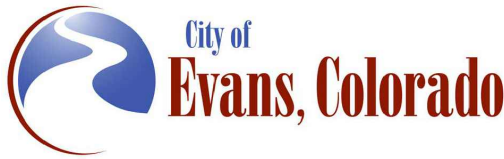
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37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
SWMP NARRATIVE

Designer:

J. Kirkling

Detailer:

J. Kirkling

Sheet Subset:

SWMP Subset Sheets: 4 of 21

Project No.

37TH STREET 2A

Drawing Number ENVI-004

Sheet Number 65

FOR CONSTRUCTION 2/24/2024

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DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	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.					
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff.					
OTHER						

**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 Fence (plastic)	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.					
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 Windrow or stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth four 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 four 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.					
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.					
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 Final 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)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				
TURF REINFORCEMENT MAT (TRM)	Final 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				
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

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File Name: ENVI P2A-001 SWMP NARRATIVE.DWG

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Vert. Scale: N/A



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Revised:

Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
SWMP NARRATIVE

Designer: J. Kirkling

Detailer: J. Kirkling

Sheet Subset: SWMP

Structure Numbers

Subset Sheets: 5 of 21

Project No.

37TH STREET 2A

Drawing Number ENVI-005

Sheet Number 66



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.
- B. Establishment of seeded areas from Substantial Landscape Completion shall be included in the price of the work. This shall include mowing, weed control, reseeding/mulch/tackifier.

Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
203-01500	Blading	Hour		20		20
203-01550	Dozing	Hour		20		20
207-00205	Topsoil	CY		671		671
208-00002	*Erosion Log (Type I) (12 inch)	LF	3412	500		3412
208-00021	**Silt Fence (Reinforced)	LF	800	800		1600
208-00035	*Aggregate Bag	LF		300		300
208-00046	Pre-fabricated Concrete Washout Structure (Type I)	Each	2			2
208-00053	Storm Drain Inlet Protection (Type I) (84 Inch)	Each		8		8
208-00054	Storm Drain Inlet Protection (Type II)	Each		3		3
208-00075	Pre-fabricated Vehicle Tracking Pad	Each	4	2		4
208-00103	Removal and Disposal of Sediment (Labor)	Hour		10		10

208-00105	Removal and Disposal of Sediment (Equipment)	Hour		10	10	20
208-00106	Sweeping (Sediment Removal)	Hour		20		20
208-00107	Removal of Trash	Hour		10		10
208-00207	Erosion Control Management (ECM)	LS	1			1
212-00006	**Seeding (Type I)	Acre			1.3	1.3
212-00022	**Seeding (Type II)	Acre			0.8	0.8
212-00032	**Soil Conditioning	Acre			2.1	2.1
213-00004	**Mulching (Weed Free Straw)	Acre			2.1	2.1
213-00012	Spray-on Mulch Blanket	Acre			1	1 (b)
213-00061	**Mulch Tackifier	LB			420	420
607-11525	Fence (Plastic)	LF		50		50

\*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 of CDOT Standards and Specifications. **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. \*\*An additional 10% was added to account for use of broadcast seeding in confined areas where drill seeding cannot be achieved.

13. BIOLOGIC 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 Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land):
- 1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 of CDOT Standards and Specifications.

14. NOTES


- (a). An additional 10% was added to account for replacement and maintenance of silt fence.
- (b). Spray-on Mulch Blanket was added for an as-needed basis.

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Print Date: 2/7/2024


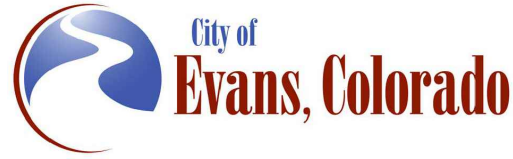
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Horiz. Scale: N/A      Vert. Scale: N/A



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Sheet Revisions		
Date	Comments	Initials



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Revised:

Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
SWMP NARRATIVE

Designer: J. Kirkling  
Detailer: J. Kirkling  
Sheet Subset: SWMP

Structure Numbers  
Subset Sheets: 6 of 21

Project No.

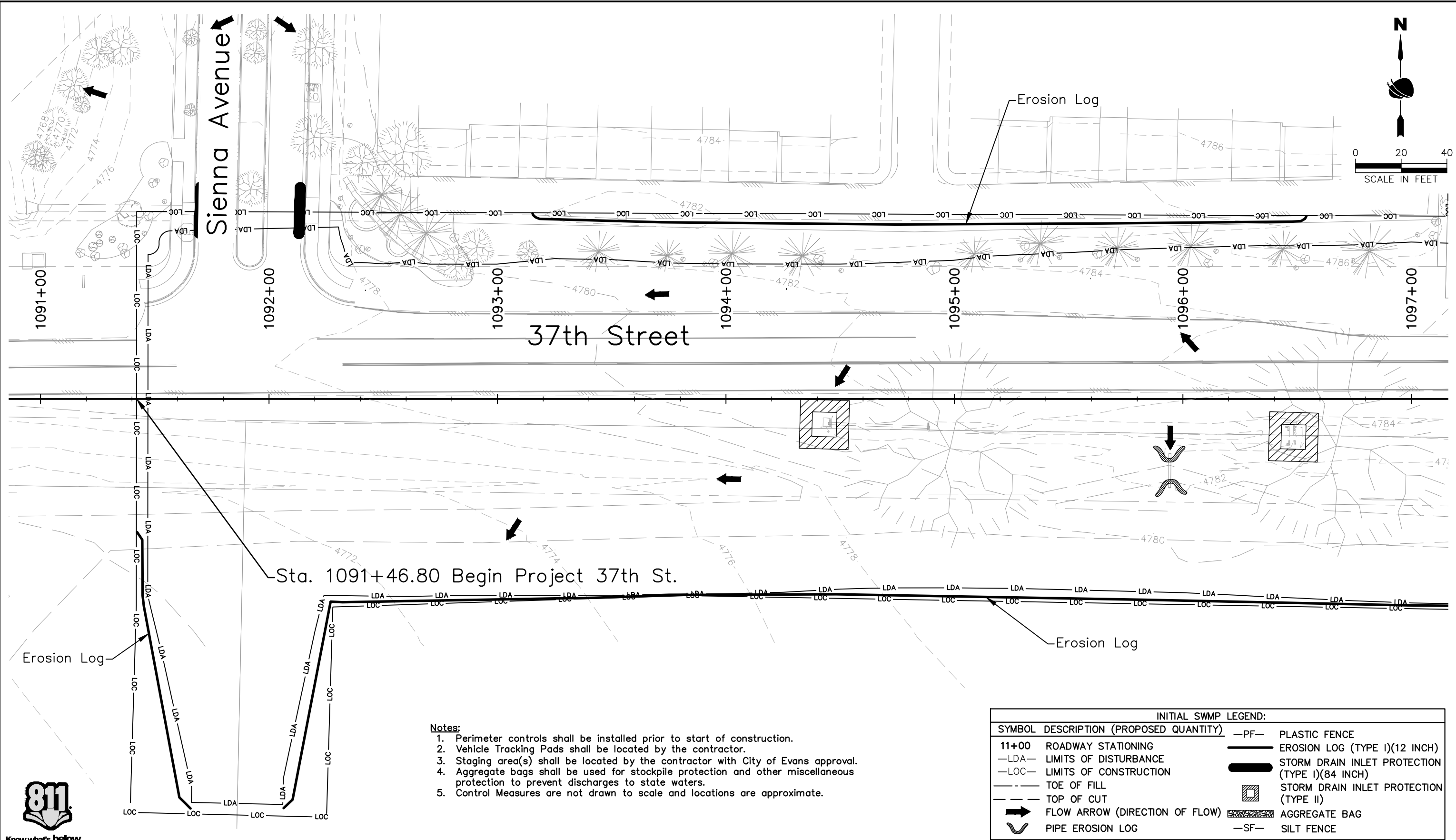
37TH STREET 2A

Drawing Number ENVI-006

Sheet Number 67



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- 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.

INITIAL SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
11+00	ROADWAY STATIONING	—PF—	PLASTIC FENCE
—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	▣	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOP OF CUT	▨	AGGREGATE BAG
➔	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
U	PIPE EROSION LOG		

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City of Evans, Colorado

FREEDOM Parkway

As Constructed

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Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
INITIAL SWMP SITE MAP

Designer: J. Kirkling

Detailer: J. Jensen

Sheet Subset: SWMP

Structure Numbers

Subset Sheets: 7 of 21

Project No.

37TH STREET 2A

Drawing Number ENVI-007

Sheet Number 68

FOR CONSTRUCTION 2/24/2024

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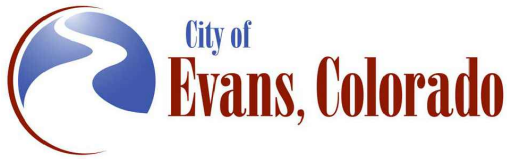
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Sheet Revisions

Date	Comments	Initials



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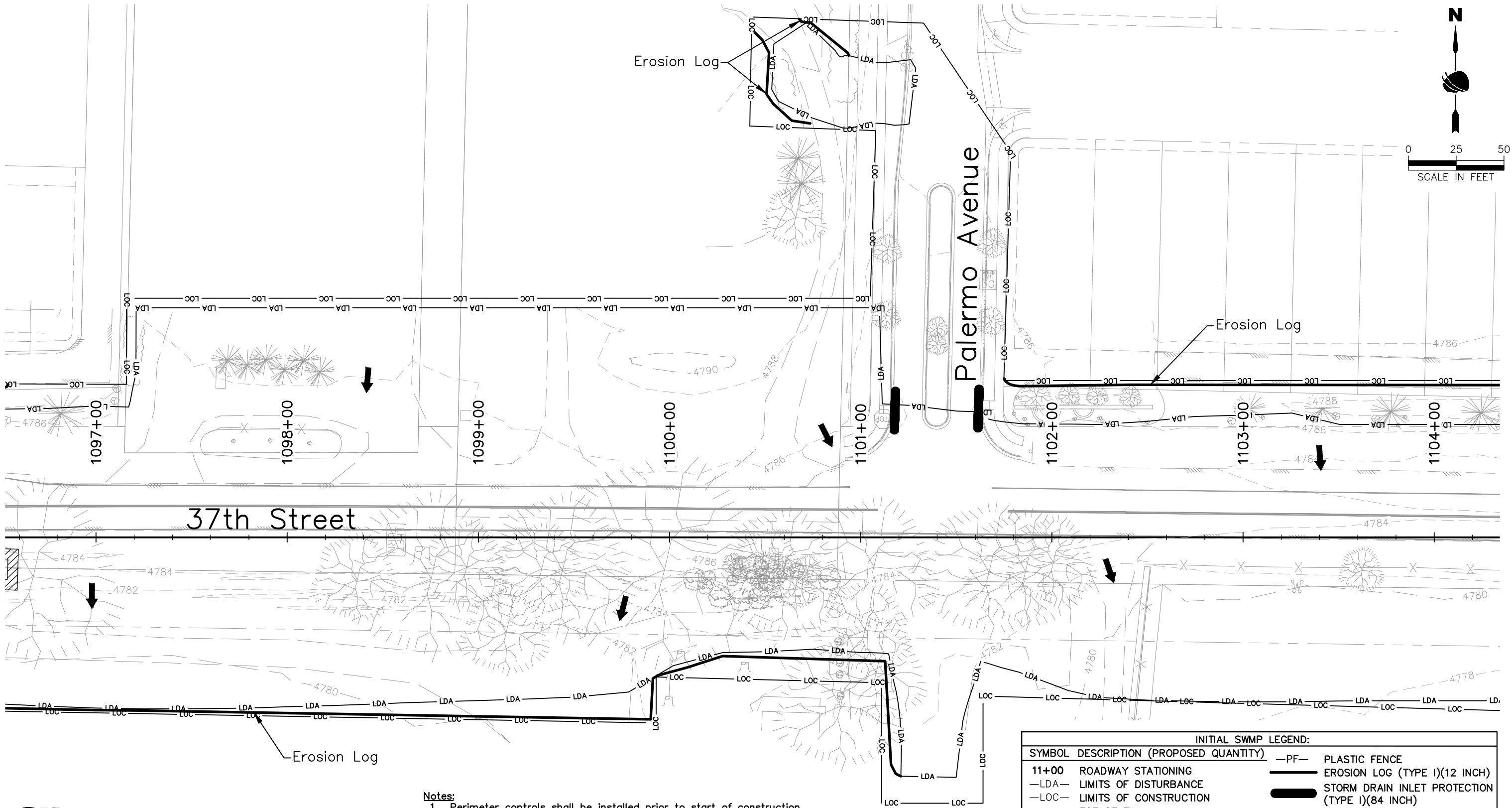
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Revised:  
Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
INITIAL SWMP SITE MAP

Designer: J. Kirkling  
Detailer: J. Jensen  
Sheet Subset: SWMP  
Structure Numbers  
Subset Sheets: 8 of 21

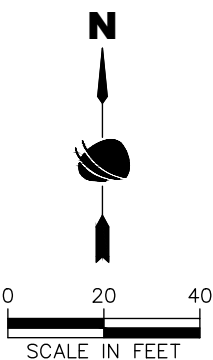
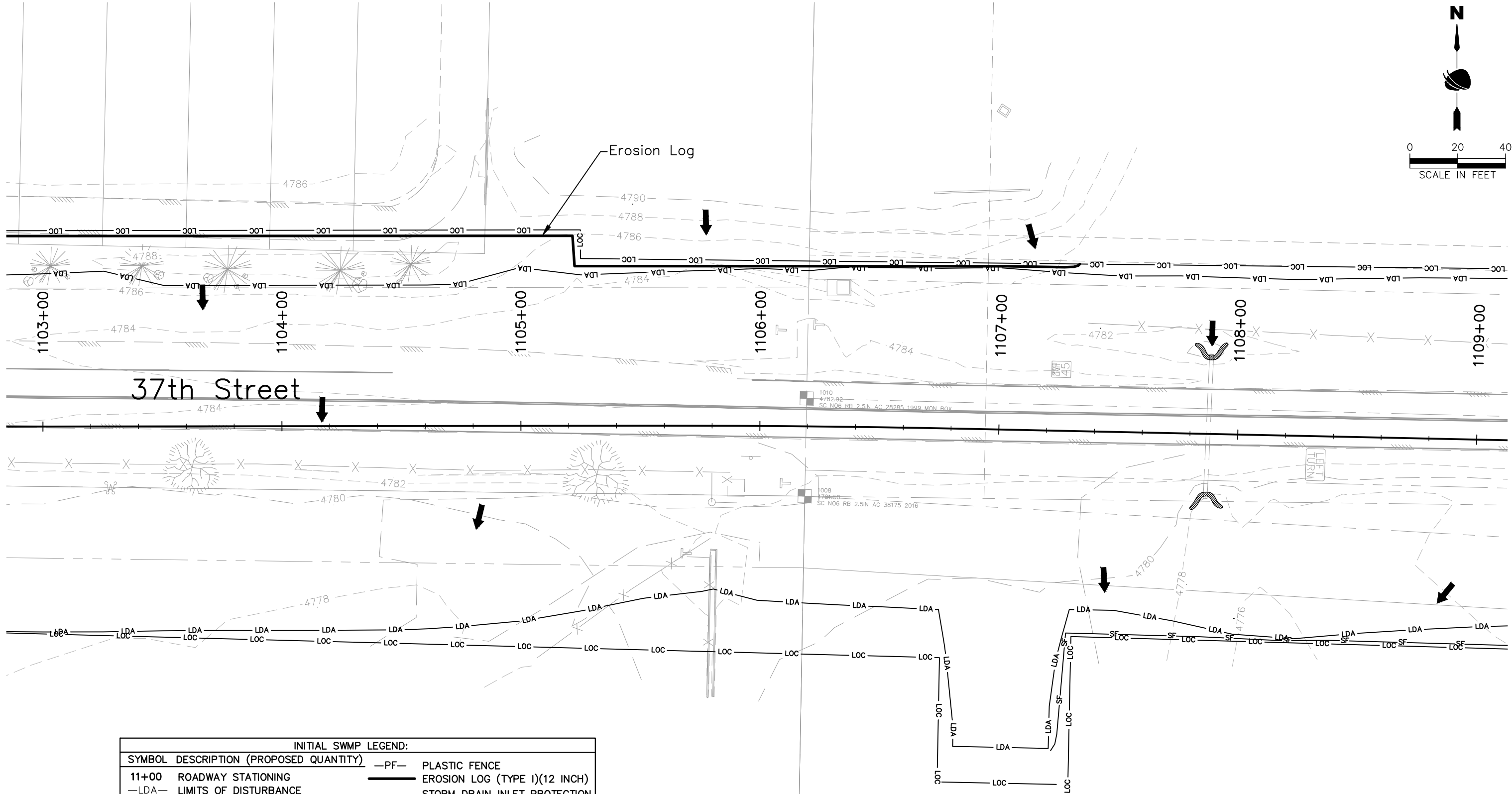
Project No.

37TH STREET 2A  
Drawing Number ENVI-008  
Sheet Number 69



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—LDA—	LIMITS OF DISTURBANCE	—LOC—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—TOP—	STORM DRAIN INLET PROTECTION (TYPE II)
—TOP—	TOE OF FILL	—SF—	AGGREGATE BAG
—SF—	TOP OF CUT	—FLOW—	SILT FENCE
—FLOW—	FLOW ARROW (DIRECTION OF FLOW)	—EROSION—	PIPE EROSION LOG
—EROSION—	PIPE EROSION LOG		

FOR CONSTRUCTION 2/24/2024



INITIAL SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
11+00	ROADWAY STATIONING	—PF—	PLASTIC FENCE
—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	▣	STORM DRAIN INLET PROTECTION (TYPE II)
- - -	TOP OF CUT	▨	AGGREGATE BAG
➔	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
U	PIPE EROSION LOG		

- Notes:**
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No Revisions:		Designer: J. Kirkling		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number ENVI-009
Void:		Sheet Subset: SWMP	Subset Sheets: 9 of 21	Sheet Number 70

Plot Date: 2/7/2024 11:01 AM    Plotted By: Sarah Hamlin  
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INITIAL SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
11+00	ROADWAY STATIONING	—PF—	PLASTIC FENCE
—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	—	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOP OF CUT	—	AGGREGATE BAG
→	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
~	PIPE EROSION LOG		

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Sheet Revisions		
Date	Comments	Initials

City of Evans, Colorado

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Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
INITIAL SWMP SITE MAP

Designer: J. Kirkling

Detailer: J. Jensen

Sheet Subset: SWMP

Structure Numbers

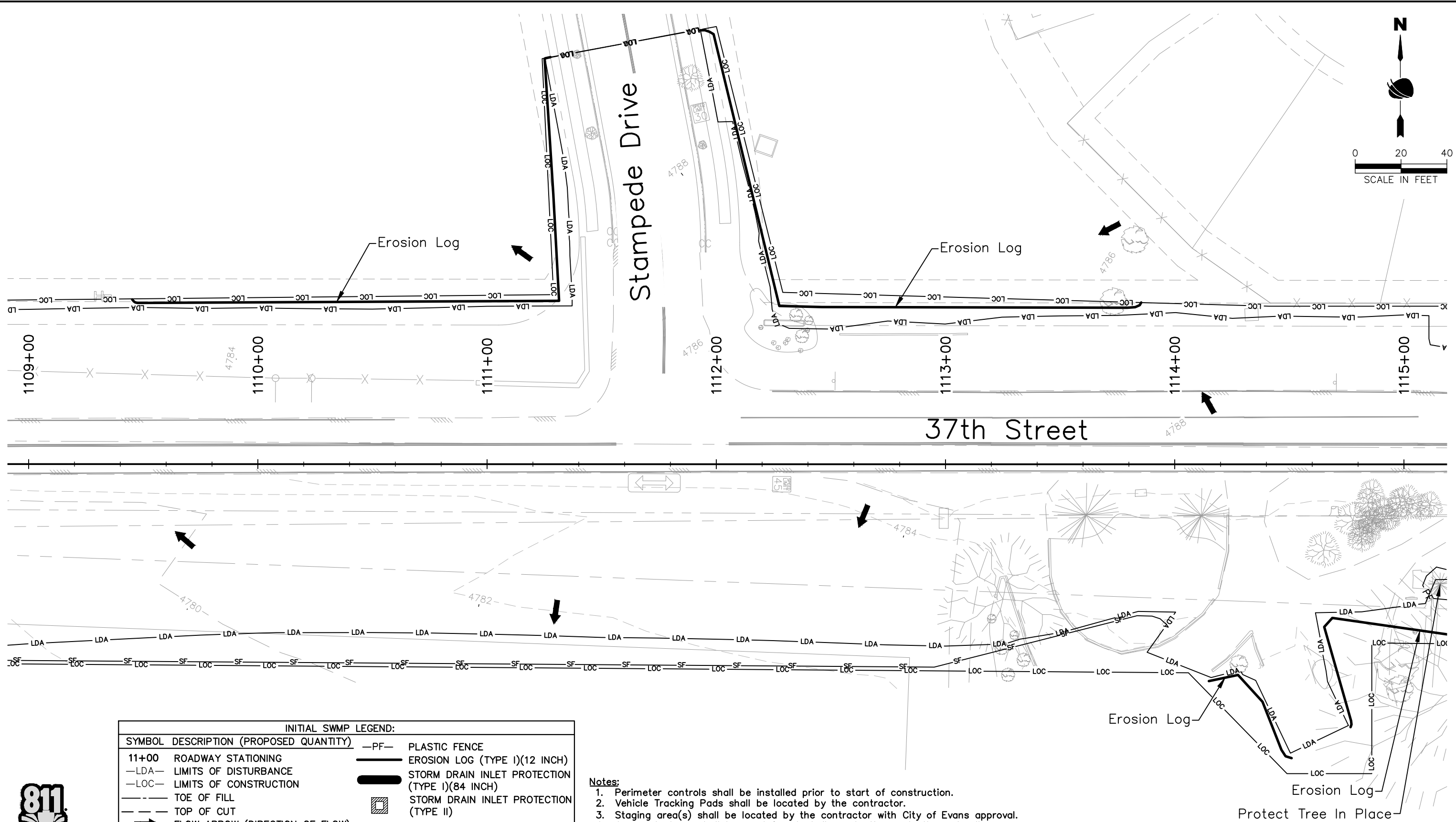
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Project No.

37TH STREET 2A

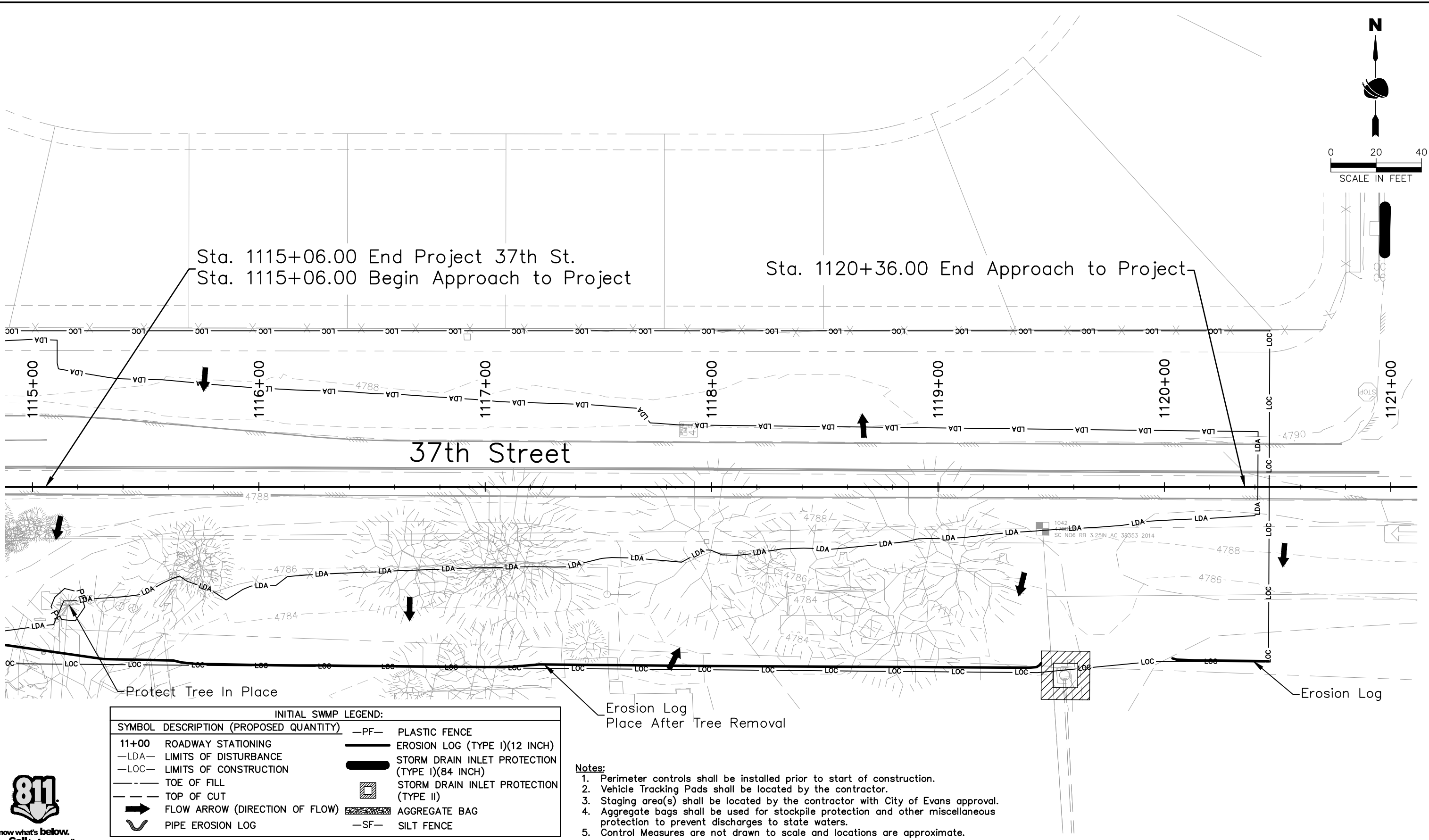
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Sheet Number 71



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INITIAL SWMP LEGEND:			
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—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	■	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOP OF CUT	■	AGGREGATE BAG
→	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
U	PIPE EROSION LOG		

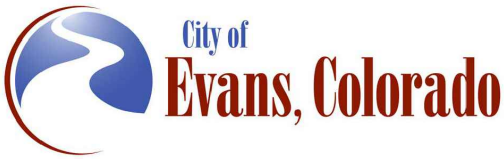
- Notes:
1. Perimeter controls shall be installed prior to start of construction.
  2. Vehicle Tracking Pads shall be located by the contractor.
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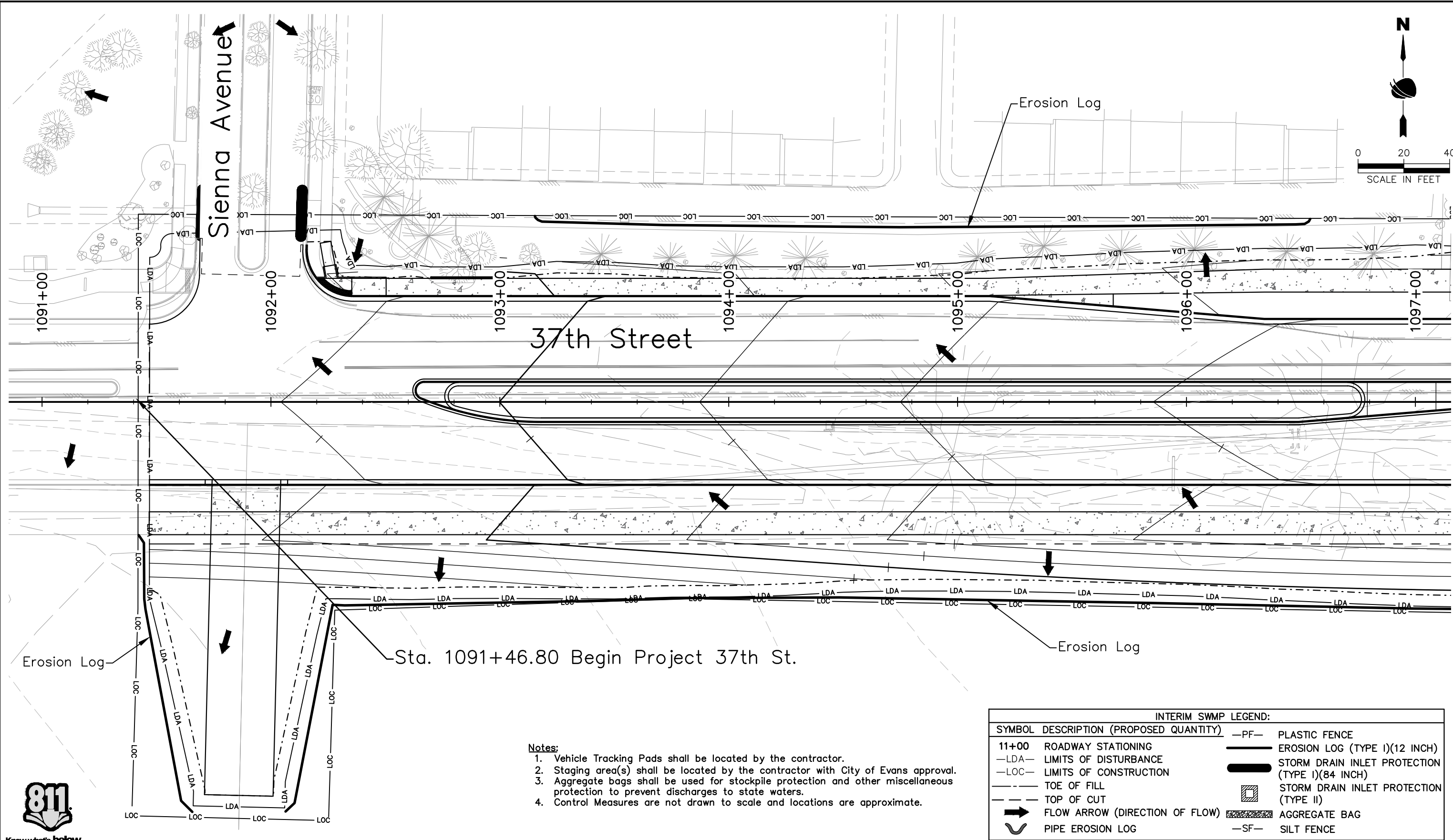
Sheet Revisions		
Date	Comments	Initials



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No Revisions:		Designer: J. Kirkling		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number ENVI-011
Void:		Sheet Subset: SWMP	Subset Sheets: 11 of 21	Sheet Number 72

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INTERIM SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	—PF—	PLASTIC FENCE
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—LDA—	LIMITS OF DISTURBANCE	—SDIP—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—SDIP2—	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOE OF FILL	—AB—	AGGREGATE BAG
- - -	TOP OF CUT	—SF—	SILT FENCE
→	FLOW ARROW (DIRECTION OF FLOW)		
U	PIPE EROSION LOG		

Print Date: 2/7/2024

File Name: ENVI P2A-012 INTERIM SWMP PLAN.DWG

Horiz. Scale: As Noted

Vert. Scale: N/A

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Date	Comments	Initials

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Void:

37TH STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
INTERIM SWMP SITE MAP

Designer: J. Kirkling

Detailer: J. Jensen

Sheet Subset: SWMP

Structure Numbers

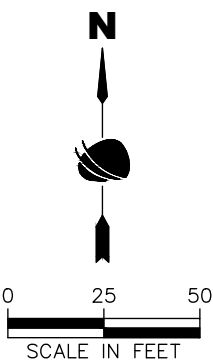
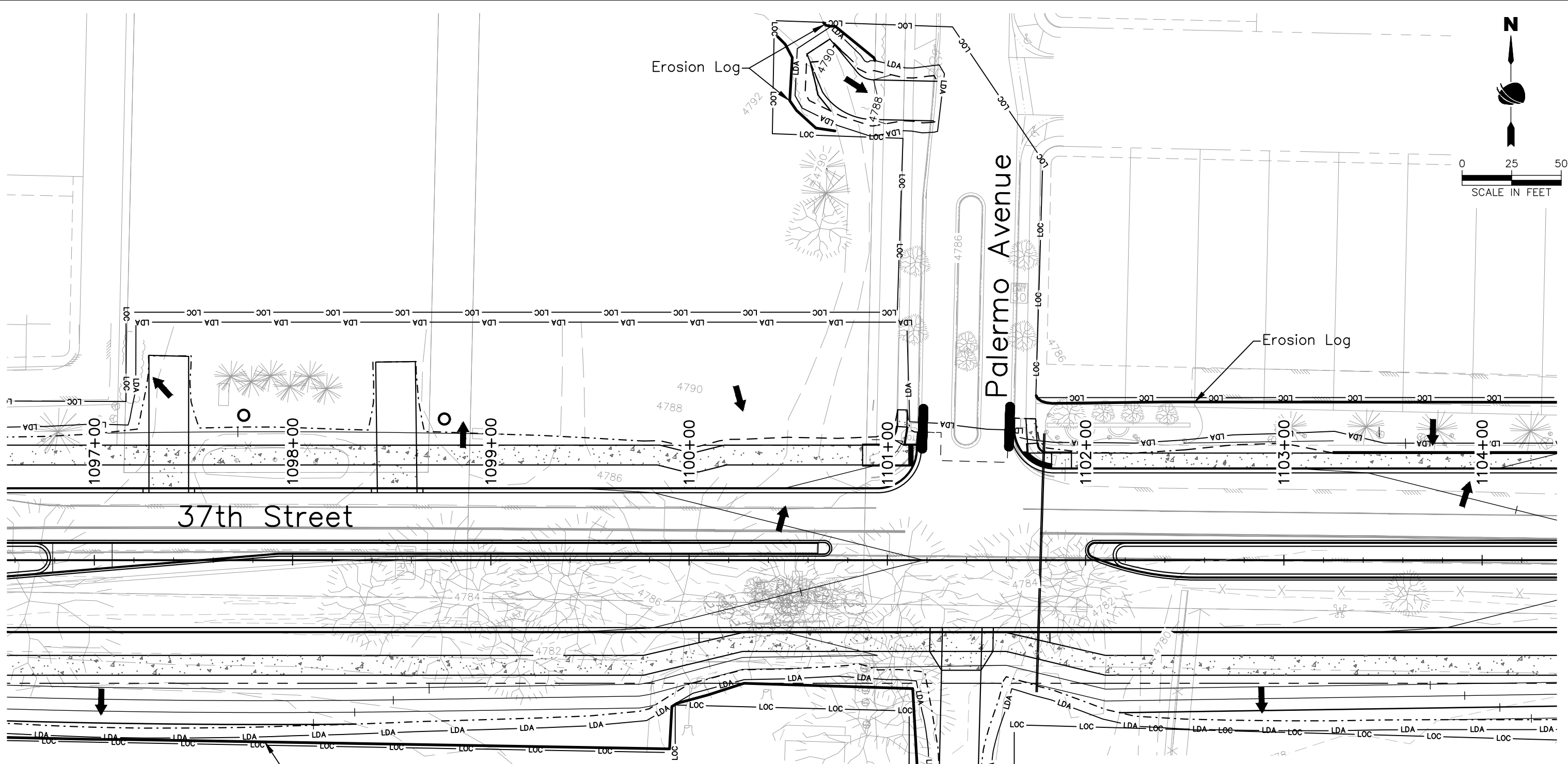
Subset Sheets: 12 of 21

Project No.  
37TH STREET 2A

Drawing Number ENVI-012

Sheet Number 73





- Notes:
- 1. Vehicle Tracking Pads shall be located by the contractor.
  - 2. Staging area(s) shall be located by the contractor with City of Evans approval.
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INTERIM SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
11+00	ROADWAY STATIONING	—PF—	PLASTIC FENCE
—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	▣	STORM DRAIN INLET PROTECTION (TYPE II)
- - -	TOP OF CUT	▨	AGGREGATE BAG
➔	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
U	PIPE EROSION LOG		



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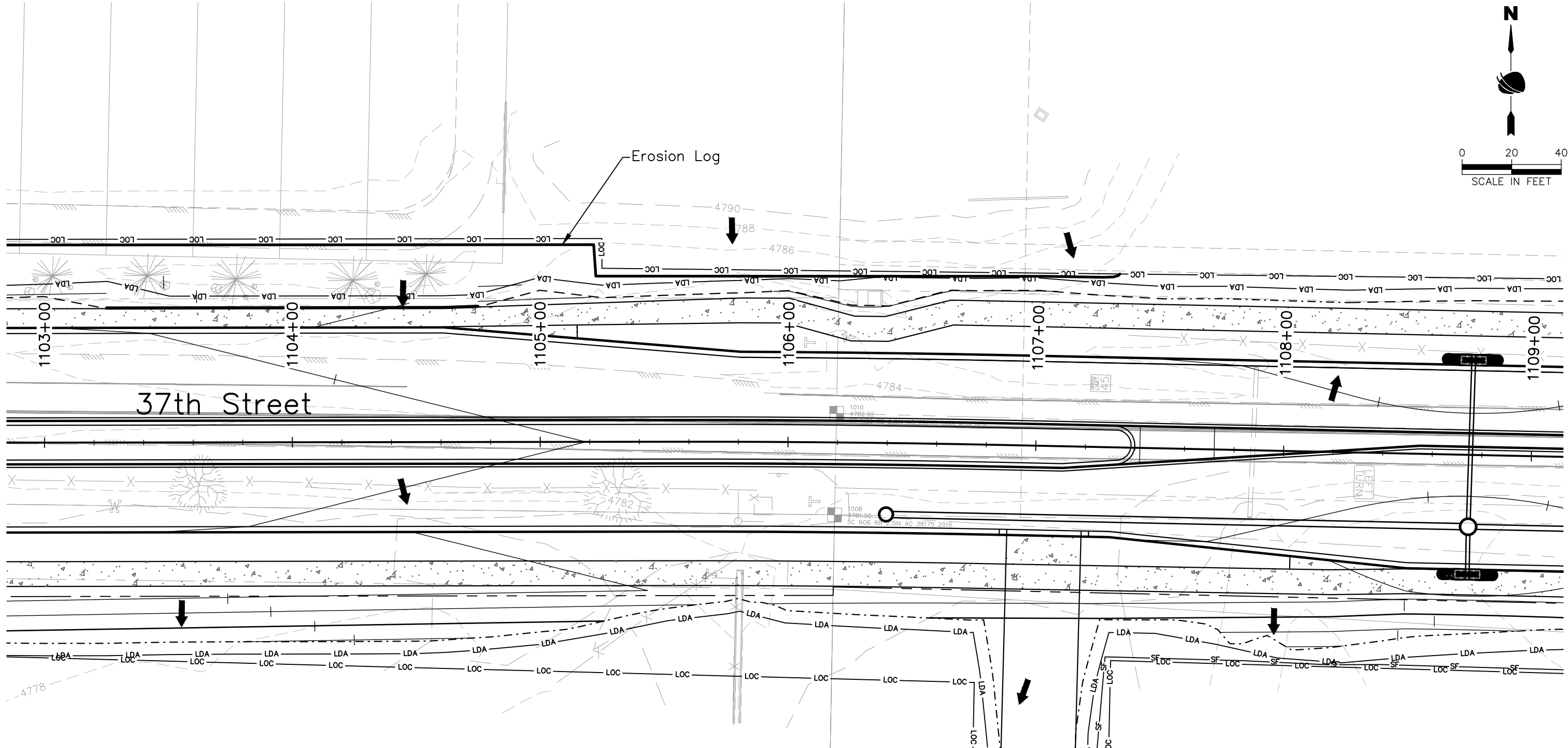
Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN INTERIM SWMP SITE MAP		Project No.
No Revisions:		Designer: J. Kirkling		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number ENVI-013
Void:		Sheet Subset: SWMP	Subset Sheets: 13 of 21	Sheet Number 74

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SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
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—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	▨	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOP OF CUT	▨	AGGREGATE BAG
➔	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
~	PIPE EROSION LOG		

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	Revised:		Designer: J. Kirkling	Structure Numbers	37TH STREET 2A
	Void:		Detailer: J. Jensen		Drawing Number ENVI-014
			Sheet Subset: SWMP	Subset Sheets: 14 of 21	Sheet Number 75

Plot Date: 2/7/2024 11:02 AM Plotted By: Sarah Henner  
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FOR CONSTRUCTION 2/24/2024

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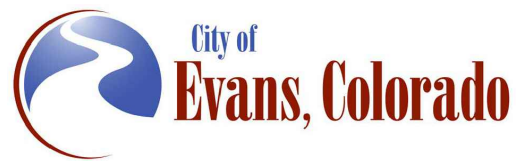
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—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	■	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOP OF CUT	▨	AGGREGATE BAG
→	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
U	PIPE EROSION LOG		

**Notes:**

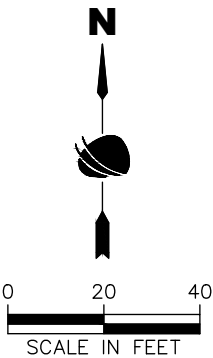
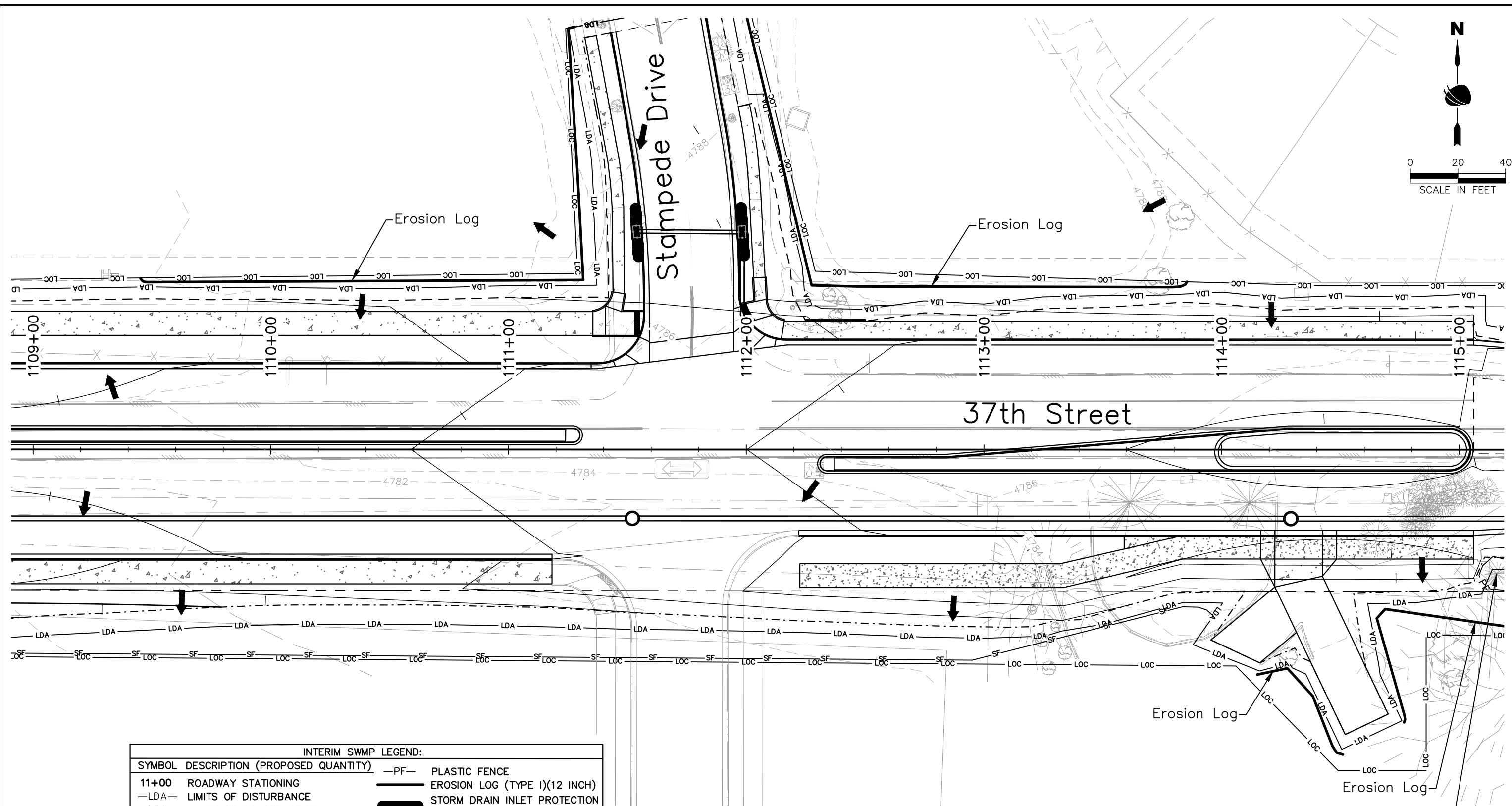
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Print Date: 2/7/2024	
File Name: ENVI P2A-012 INTERIM SWMP PLAN.DWG	
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Sheet Revisions		
Date	Comments	Initials



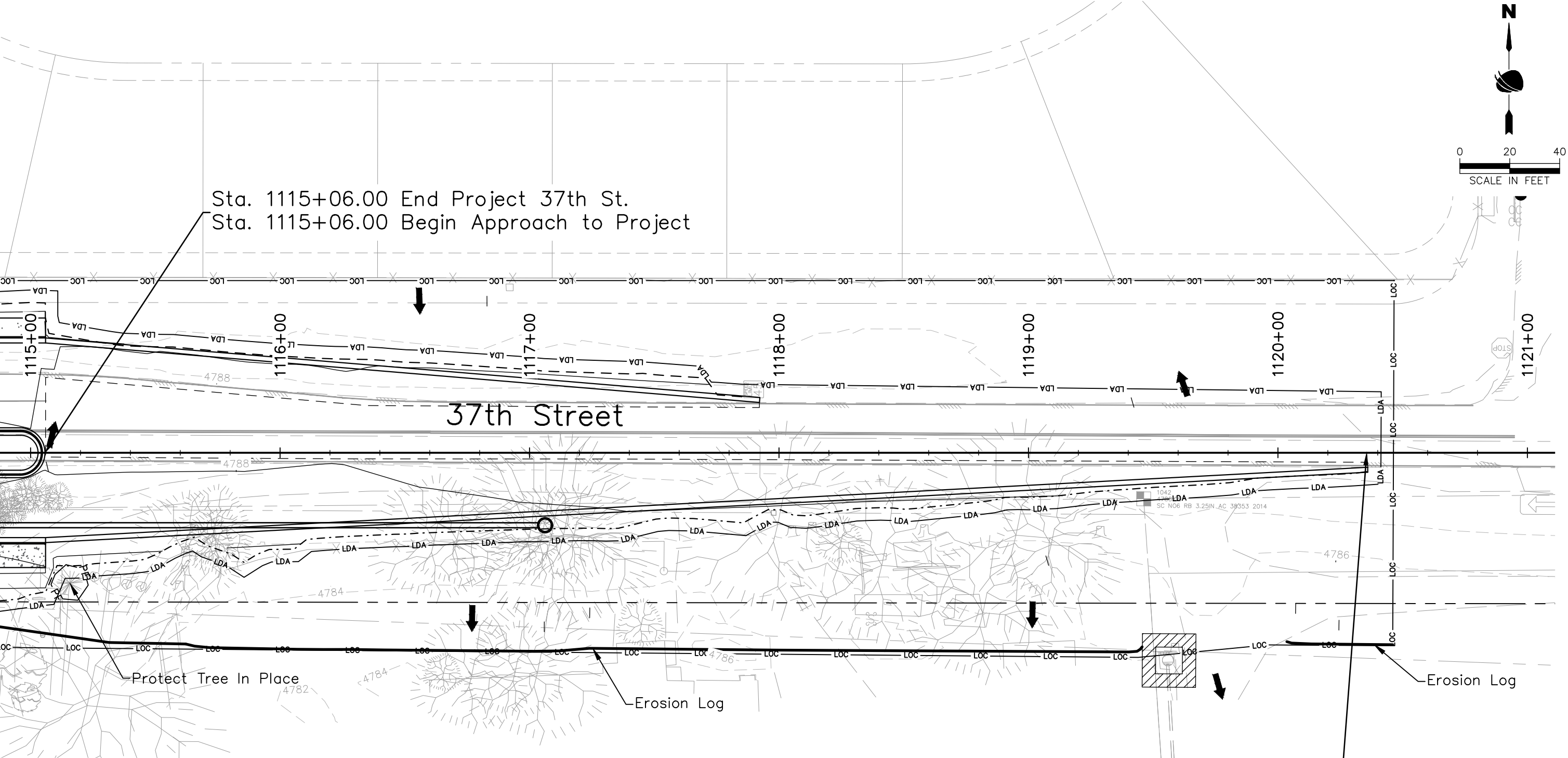
As Constructed		37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN INTERIM SWMP SITE MAP		Project No.
No Revisions:		Designer: J. Kirkling		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number ENVI-015
Void:		Sheet Subset: SWMP	Subset Sheets: 15 of 21	Sheet Number 76



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INTERIM SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
11+00	ROADWAY STATIONING	—PF—	PLASTIC FENCE
—LDA—	LIMITS OF DISTURBANCE	—	EROSION LOG (TYPE I)(12 INCH)
—LOC—	LIMITS OF CONSTRUCTION	—	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
---	TOE OF FILL	■	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOP OF CUT	▨	AGGREGATE BAG
➔	FLOW ARROW (DIRECTION OF FLOW)	—SF—	SILT FENCE
~	PIPE EROSION LOG		

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



Know what's below.  
Call before you dig.

Print Date: 2/7/2024

File Name: ENVI P2A-012 INTERIM SWMP PLAN.DWG

Horiz. Scale: As Noted

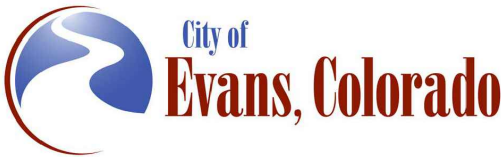
Vert. Scale: N/A



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 STREET WIDENING PHASE 2A  
STORMWATER MANAGEMENT PLAN  
INTERIM SWMP SITE MAP

Designer:	J. Kirkling	Structure	
Detailer:	J. Jensen	Numbers	
Sheet Subset:	SWMP	Subset Sheets:	16 of 21

Project No.

37TH STREET 2A

Drawing Number ENVI-016

Sheet Number 77

FOR CONSTRUCTION 2/24/2024

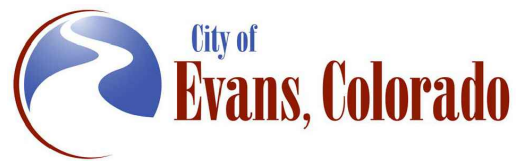
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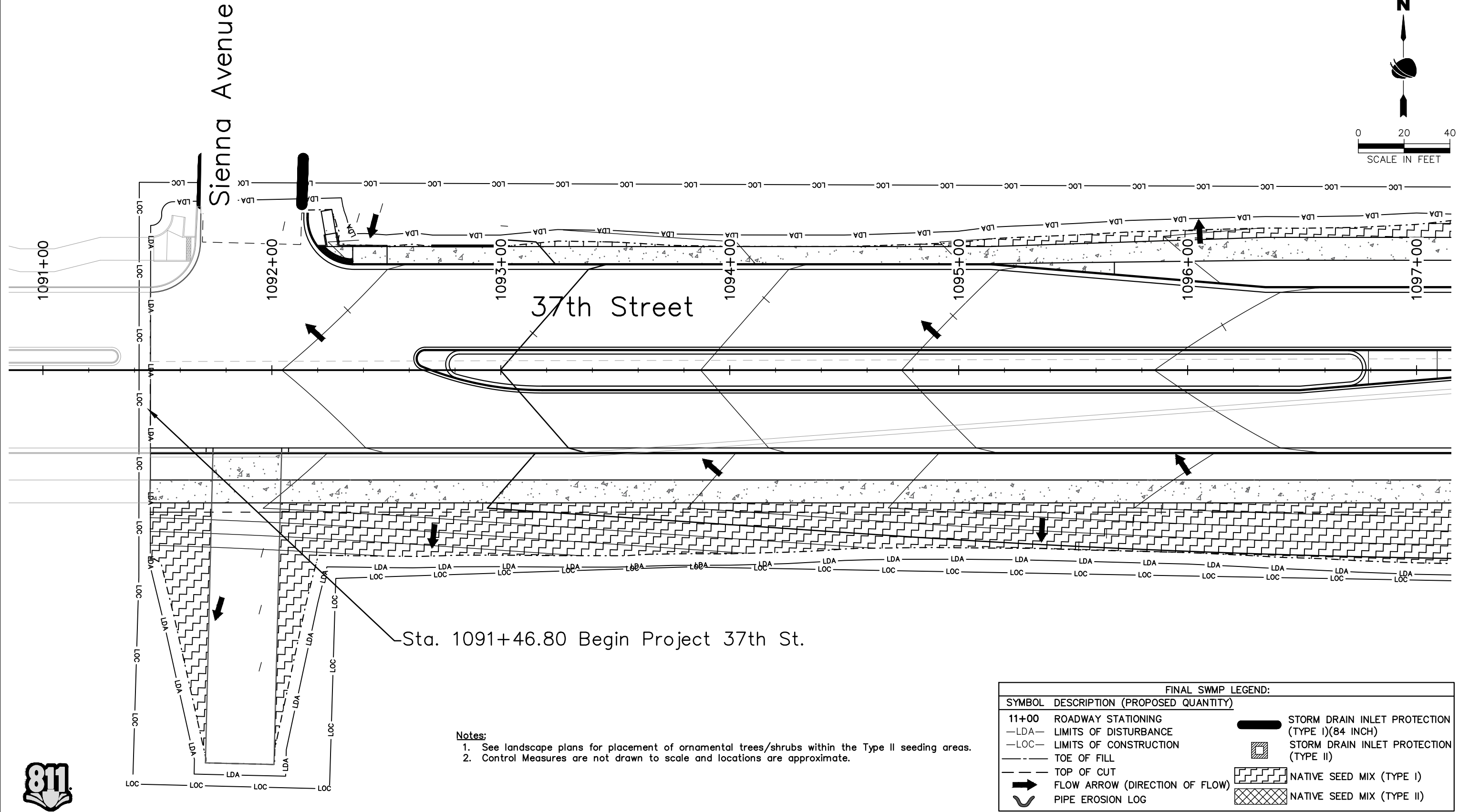
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Call before you dig.

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Horiz. Scale: As Noted	Vert. Scale: N/A
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	Thornton, CO 80241
	Ph: (303) 962-9300
	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



As Constructed	37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN FINAL SWMP SITE MAP		Project No.
	No Revisions:		37TH STREET 2A
Revised:	Designer: J. Kirkling	Structure Numbers	Drawing Number ENVI-017
Void:	Detailer: J. Jensen		
	Sheet Subset: SWMP	Subset Sheets: 17 of 21	Sheet Number 78

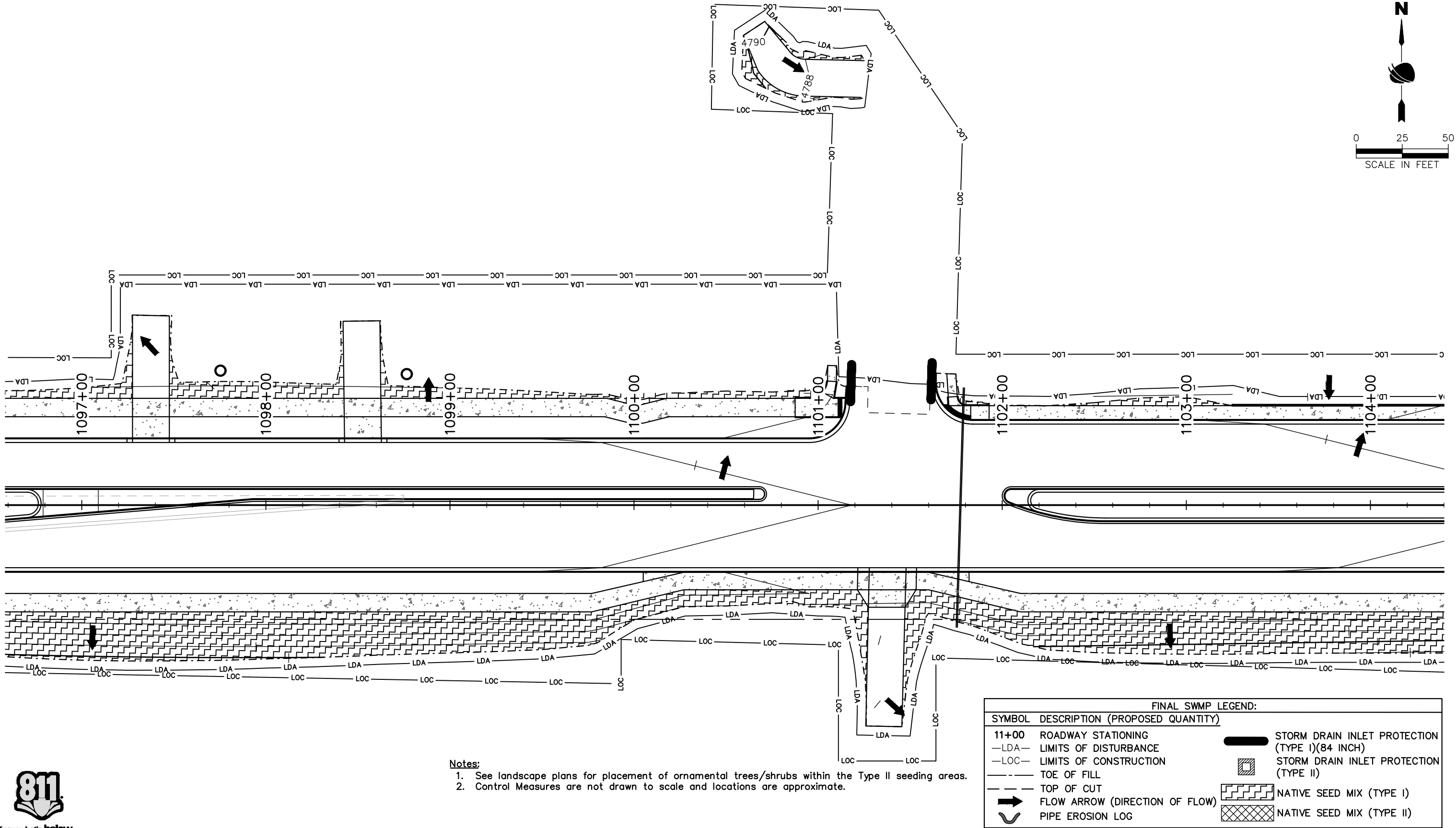


**Notes:**

- See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
- Control Measures are not drawn to scale and locations are approximate.

FINAL SWMP LEGEND:	
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)
11+00	ROADWAY STATIONING
—LDA—	LIMITS OF DISTURBANCE
—LOC—	LIMITS OF CONSTRUCTION
---	TOE OF FILL
---	TOP OF CUT
➔	FLOW ARROW (DIRECTION OF FLOW)
U	PIPE EROSION LOG
	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
	STORM DRAIN INLET PROTECTION (TYPE II)
	NATIVE SEED MIX (TYPE I)
	NATIVE SEED MIX (TYPE II)

FOR CONSTRUCTION 2/24/2024



- Notes:**
- 1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
  - 2. Control Measures are not drawn to scale and locations are approximate.

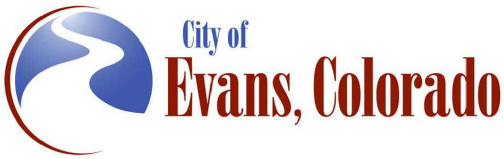
FINAL SWMP LEGEND:			
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)		
11+00	ROADWAY STATIONING		
—LDA—	LIMITS OF DISTURBANCE		STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
—LOC—	LIMITS OF CONSTRUCTION		STORM DRAIN INLET PROTECTION (TYPE II)
---	TOE OF FILL		NATIVE SEED MIX (TYPE I)
- - -	TOP OF CUT		NATIVE SEED MIX (TYPE II)
	FLOW ARROW (DIRECTION OF FLOW)		
	PIPE EROSION LOG		



Know what's below.  
Call before you dig.

Print Date: 2/7/2024	
File Name: ENVI P2A-017 FINAL SWMP PLAN.DWG	
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	12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350

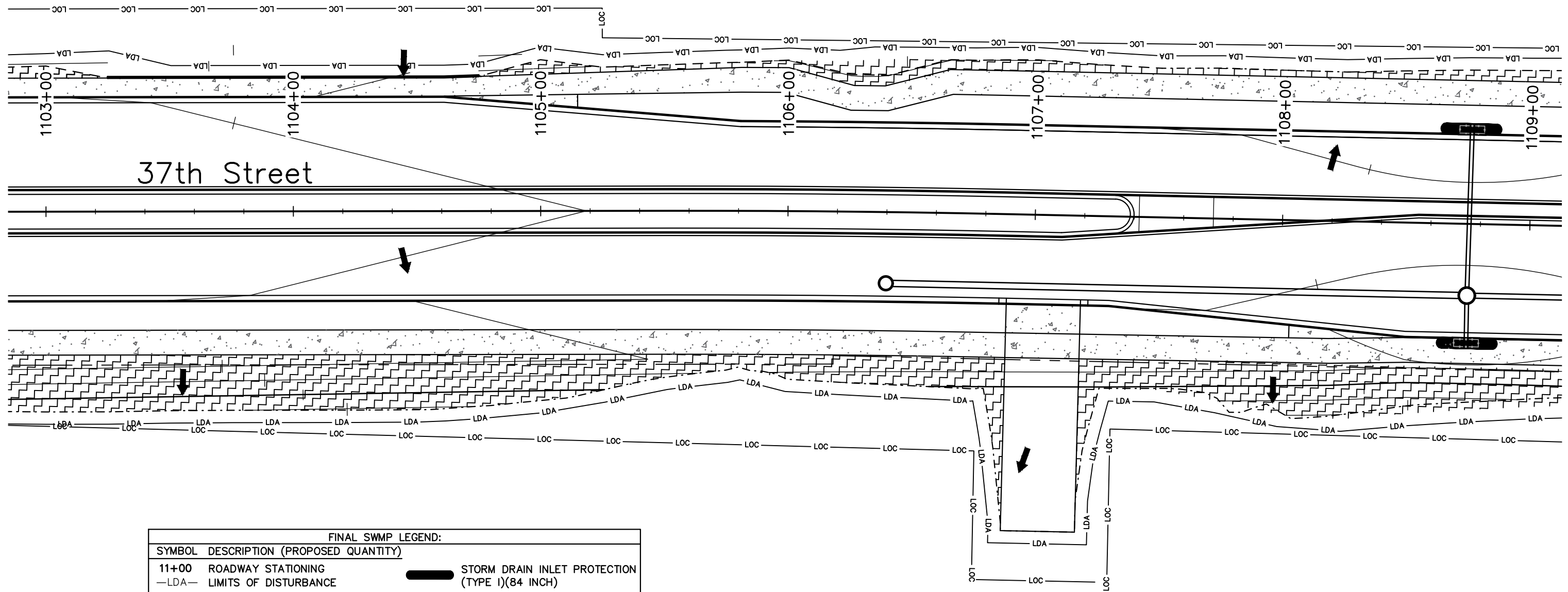
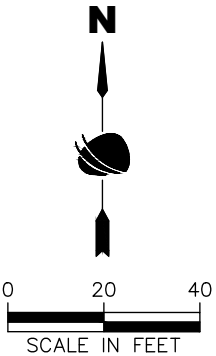
	Sheet Revisions		
	Date	Comments	Initials
○			
○			
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As Constructed	37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN FINAL SWMP SITE MAP		Project No.
	No Revisions:		37TH STREET 2A
Revised:	Designer: J. Kirkling	Structure Numbers	Drawing Number ENVI-018
Void:	Detailer: J. Jensen		Sheet Number 79
	Sheet Subset: SWMP	Subset Sheets: 18 of 21	

FOR CONSTRUCTION 2/24/2024





FINAL SWMP LEGEND:		
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	
11+00	ROADWAY STATIONING	
—LDA—	LIMITS OF DISTURBANCE	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
—LOC—	LIMITS OF CONSTRUCTION	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOE OF FILL	
---	TOP OF CUT	NATIVE SEED MIX (TYPE I)
→	FLOW ARROW (DIRECTION OF FLOW)	NATIVE SEED MIX (TYPE II)
~	PIPE EROSION LOG	

- Notes:
- See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
  - Control Measures are not drawn to scale and locations are approximate.



Know what's below.  
Call before you dig.

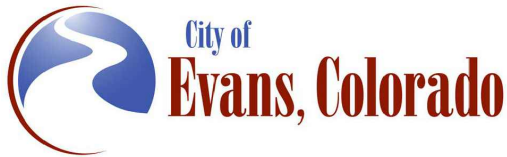
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Horiz. Scale: As Noted      Vert. Scale: N/A

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Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN FINAL SWMP SITE MAP		Project No.
No Revisions:		Designer: J. Kirkling		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number ENVI-019
Void:		Sheet Subset: SWMP	Subset Sheets: 19 of 21	Sheet Number 80

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FOR CONSTRUCTION 2/24/2024

Plot Date: 2/7/2024 11:02 AM Plotted By: Sarah Henner  
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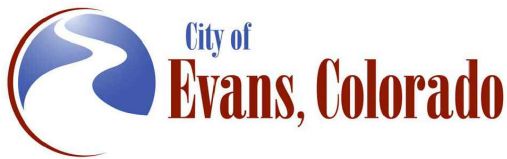


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Call before you dig.

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#### Sheet Revisions

Date	Comments	Initials



#### As Constructed

No Revisions:

Revised:

Void:

#### 37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN FINAL SWMP SITE MAP

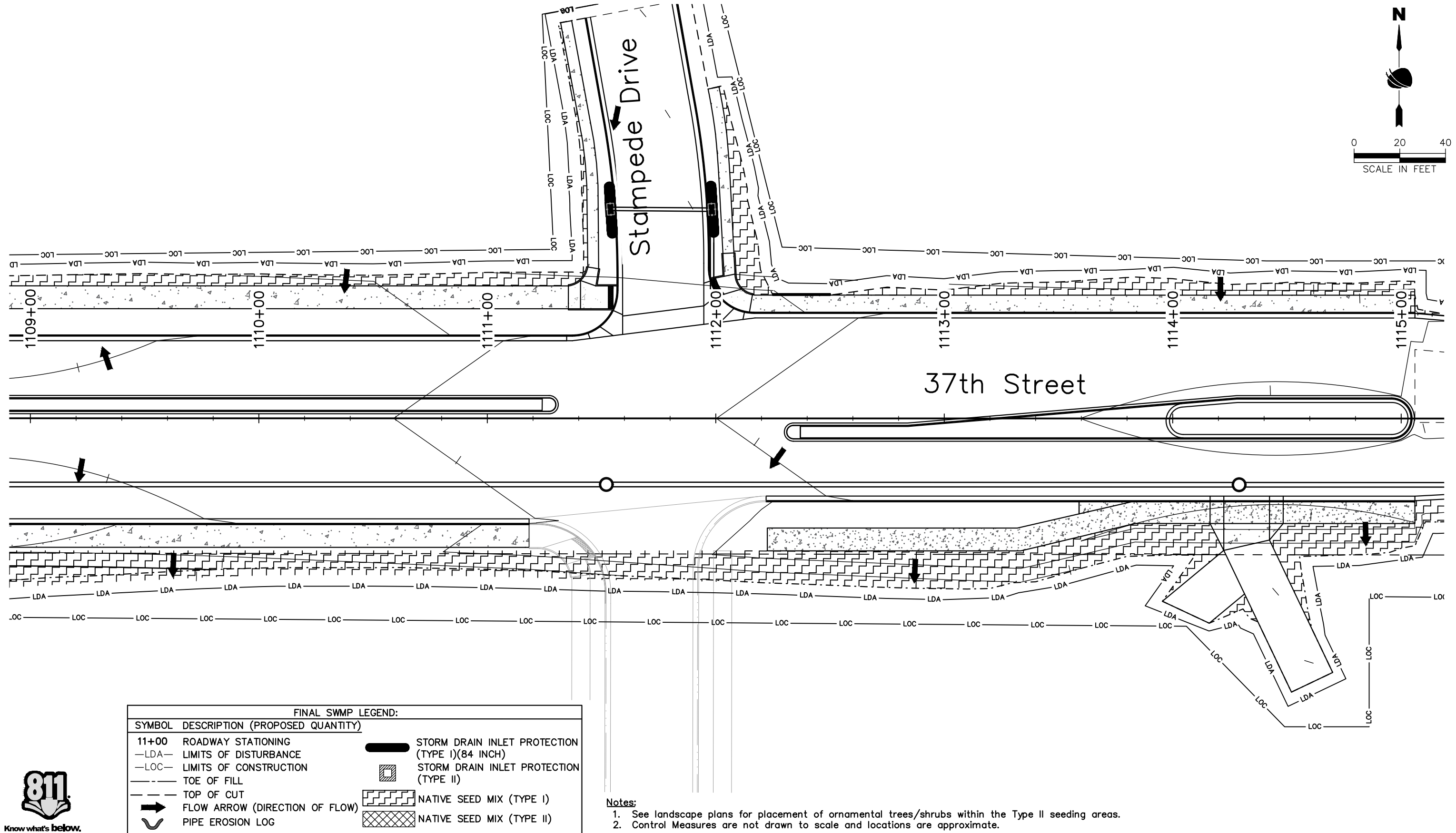
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Detailer:	J. Jensen	Numbers	
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#### Project No.

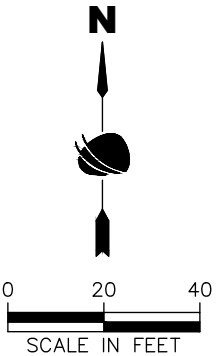
37TH STREET 2A

Drawing Number ENVI-020

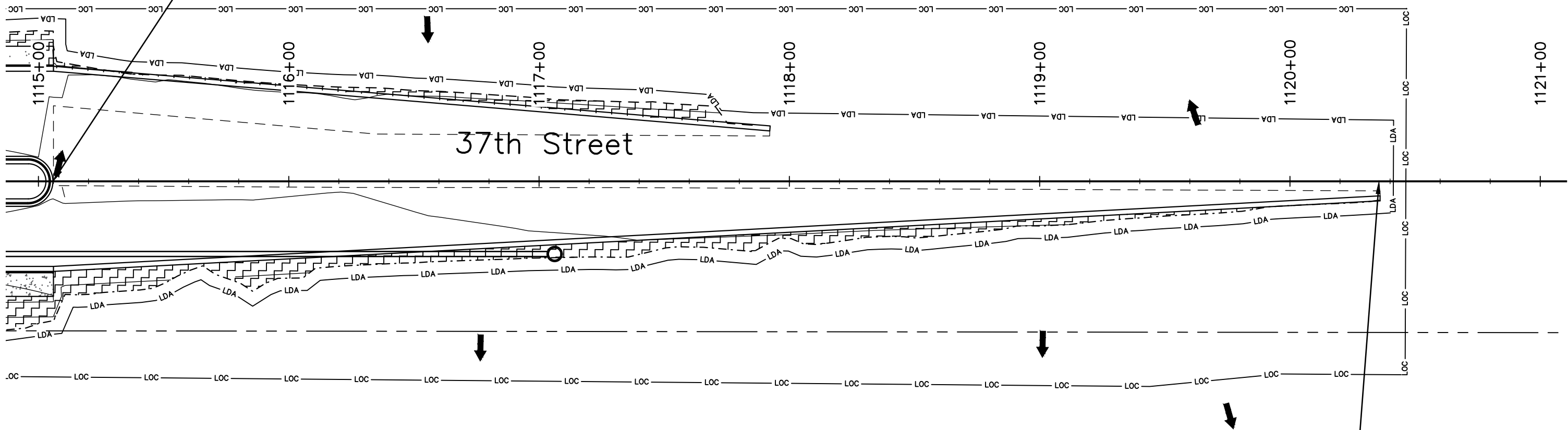
Sheet Number 81



FOR CONSTRUCTION 2/24/2024



Sta. 1115+06.00 End Project 37th St.  
Sta. 1115+06.00 Begin Approach to Project



Sta. 1120+36.00 End Approach to Project

FINAL SWMP LEGEND:		
SYMBOL	DESCRIPTION (PROPOSED QUANTITY)	
11+00	ROADWAY STATIONING	
—LDA—	LIMITS OF DISTURBANCE	STORM DRAIN INLET PROTECTION (TYPE I)(84 INCH)
—LOC—	LIMITS OF CONSTRUCTION	STORM DRAIN INLET PROTECTION (TYPE II)
---	TOE OF FILL	NATIVE SEED MIX (TYPE I)
- - -	TOP OF CUT	NATIVE SEED MIX (TYPE II)
→	FLOW ARROW (DIRECTION OF FLOW)	PIPE EROSION LOG

- Notes:
- 1. See landscape plans for placement of ornamental trees/shrubs within the Type II seeding areas.
  - 2. Control Measures are not drawn to scale and locations are approximate.



Know what's below.  
Call before you dig.

Print Date: 2/7/2024

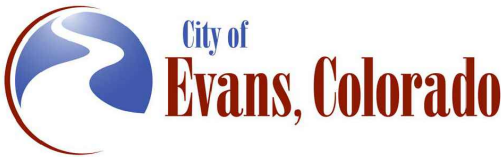
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Horiz. Scale: As Noted

Vert. Scale: N/A

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Sheet Revisions		
Date	Comments	Initials



As Constructed		37TH STREET WIDENING PHASE 2A STORMWATER MANAGEMENT PLAN FINAL SWMP SITE MAP		Project No.
No Revisions:		Designer: J. Kirkling		37TH STREET 2A
Revised:		Detailer: J. Jensen	Structure Numbers	Drawing Number ENVI-021
Void:		Sheet Subset: SWMP	Subset Sheets: 21 of 21	Sheet Number 82

FOR CONSTRUCTION 2/24/2024



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LANDSCAPE SHEET INDEX

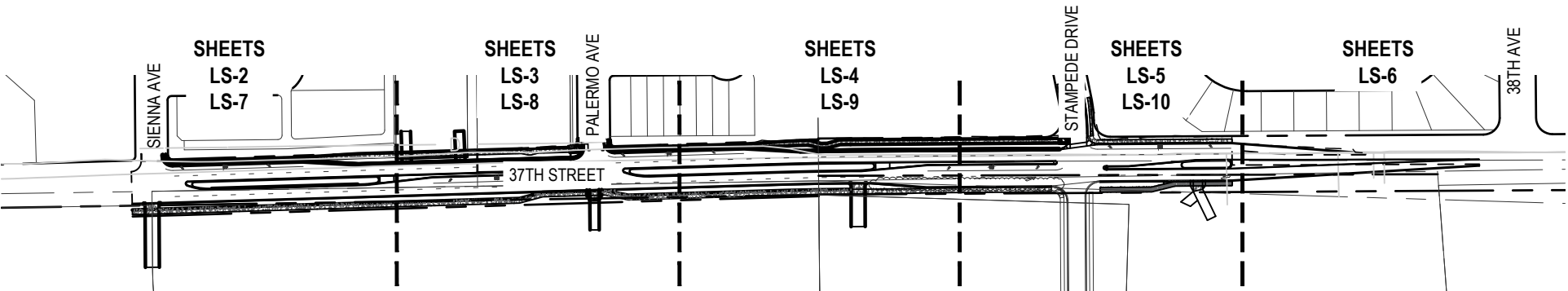
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LS-2	LANDSCAPE PLAN
LS-3	LANDSCAPE PLAN
LS-4	LANDSCAPE PLAN
LS-5	LANDSCAPE PLAN
LS-6	LANDSCAPE PLAN
LS-7	MULCH & BOULDER PLAN
LS-8	MULCH & BOULDER PLAN
LS-9	MULCH & BOULDER PLAN
LS-10	MULCH & BOULDER PLAN
LS-11	PLANT LIST
LS-12	LANDSCAPE NOTES
LS-13	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	1915
213-00005	Wood (Organic) Mulch (Brown Western Cedar)(4" Depth)	CY	209
213-00067	Inorganic Mulch (1.5" to 3" Tan River Rock)(3" Depth)(Special)	SF	4409
213-00440	Metal Landscape Border (1/8" x 4")	LF	822
213-00318	18 Inch Root Barrier	LF	2520
213-00705	Landscape Boulder A (Siloam)(4'l. x 2'w. x 2'h.)(Special)	EACH	33
213-00705	Landscape Boulder B (Siloam) (3'l. x 2'w. x 2'h.)(Special)	EACH	36
213-00705	Landscape Boulder C (Siloam) (2'l. x 2'w. x 2'h.)(Special)	EACH	52
214-00220	Deciduous Tree (2" Cal.)	EACH	36
214-00230	Deciduous Ornamental Tree (1.5" Cal.)	EACH	15
214-00350	Deciduous Shrub (5 Gal.)	EACH	116
214-00650	Evergreen Shrub (5 Gal.)	EACH	27
214-00908	Ornamental Grasses and Perennials (1 Gal.)	EACH	185
623-09900	Irrigation System	LS	1



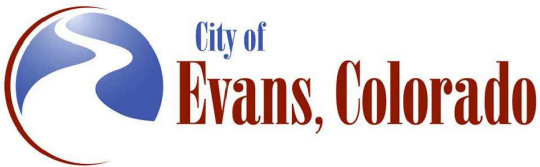
SHEET KEY MAP



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Date:	Comments	Init.



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				AQC M415-021	
No Revisions:	Designer:	DE	Structure	Drawing Number LS-1	
Revised:	Detailer:	DE	Numbers	Sheet Number 83	
Void:	Sheet Subset: LANDSCAPE	Subset Sheets: 1 of 35			

FOR CONSTRUCTION 2/24/2024

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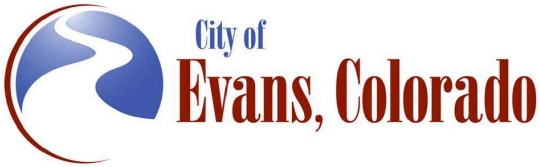
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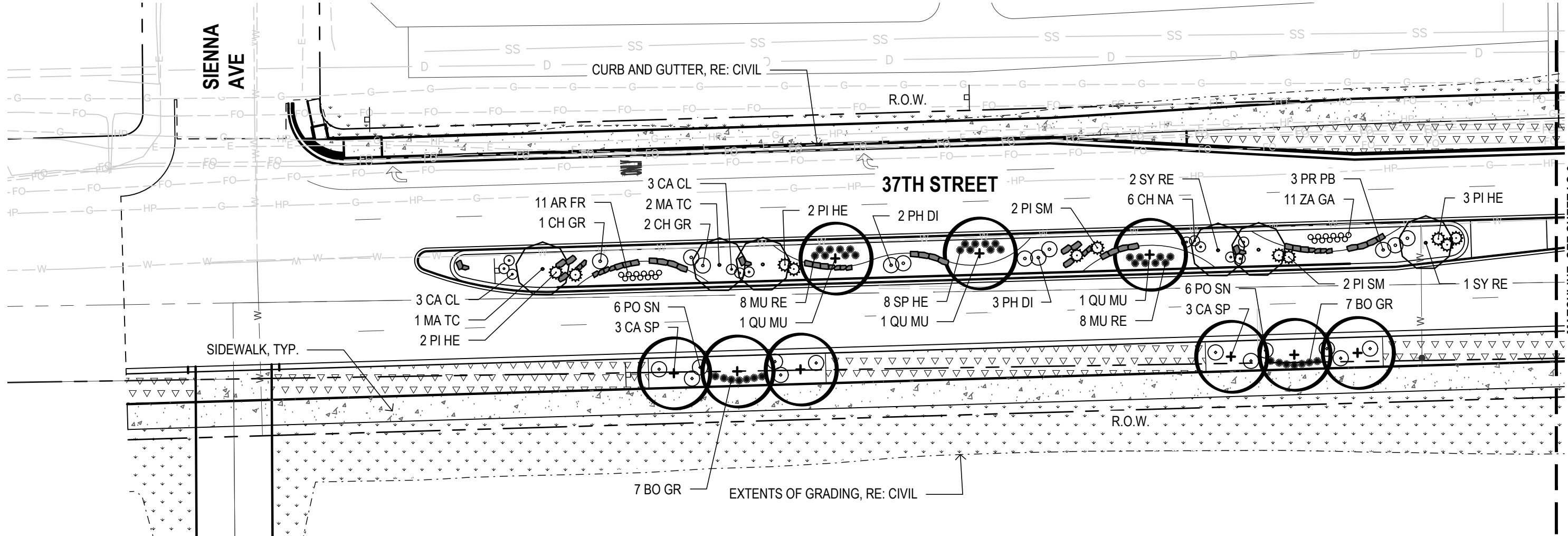
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Sheet Revisions		
Date:	Comments	Init.



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No Revisions:				AQC M415-021
Revised:	Designer: DE	Structure Numbers		Drawing Number LS-2
Void:	Detailer: DE	Sheet Subset: LANDSCAPE	Subset Sheets: 2 of 35	Sheet Number 84



MATCHLINE: SEE SHEET LS-3

LEGEND

DECIDUOUS SHADE TREE

ORNAMENTAL TREE

DECIDUOUS SHRUB

EVERGREEN SHRUBS

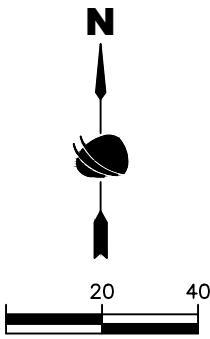
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PERENNIAL

SEED - TYPE 1, RE: SWMP


SEED - TYPE 2, RE: SWMP


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





FOR CONSTRUCTION 2/24/2024


LEGEND


- 


DECIDUOUS SHADE TREE
- 


ORNAMENTAL TREE
- 

DECIDUOUS SHRUB
- 

EVERGREEN SHRUBS
- 

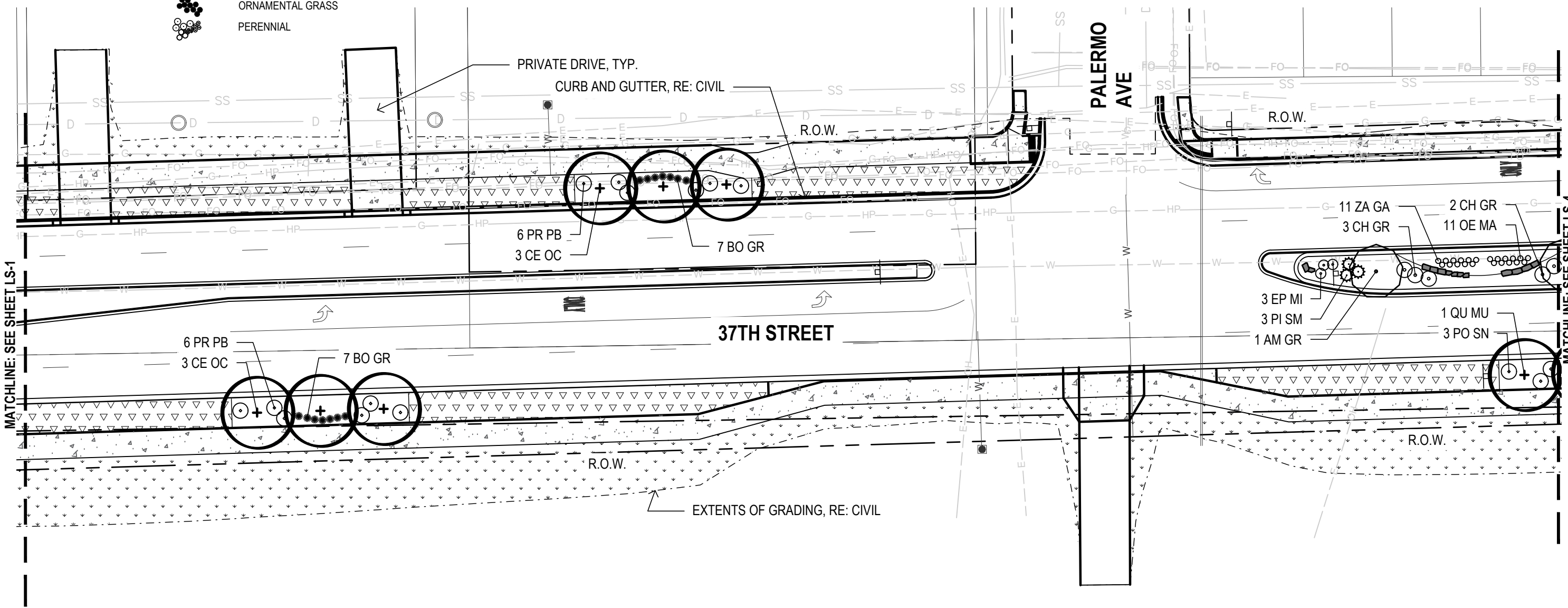
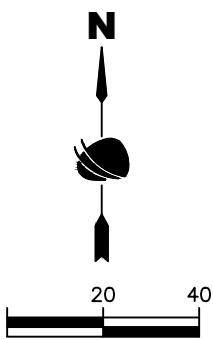
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PERENNIAL
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SEED - TYPE 1, RE: SWMP
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SEED - TYPE 2, RE: SWMP

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



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Print Date: 1/26/2024

File Name: 1914\_37TH LANDSCAPE PLAN2A.DWG

Horiz. Scale: As Noted    Vert. Scale: As Noted



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	Drawing Number LS-3	
Void:		Detailer:	DE	Numbers		
		Sheet Subset: LANDSCAPE	Subset Sheets: 3 of 35		Sheet Number 85	

FOR CONSTRUCTION 2/24/2024



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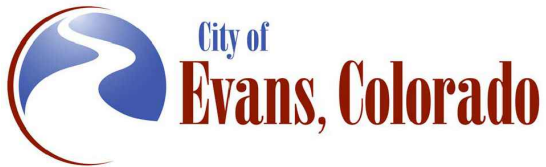


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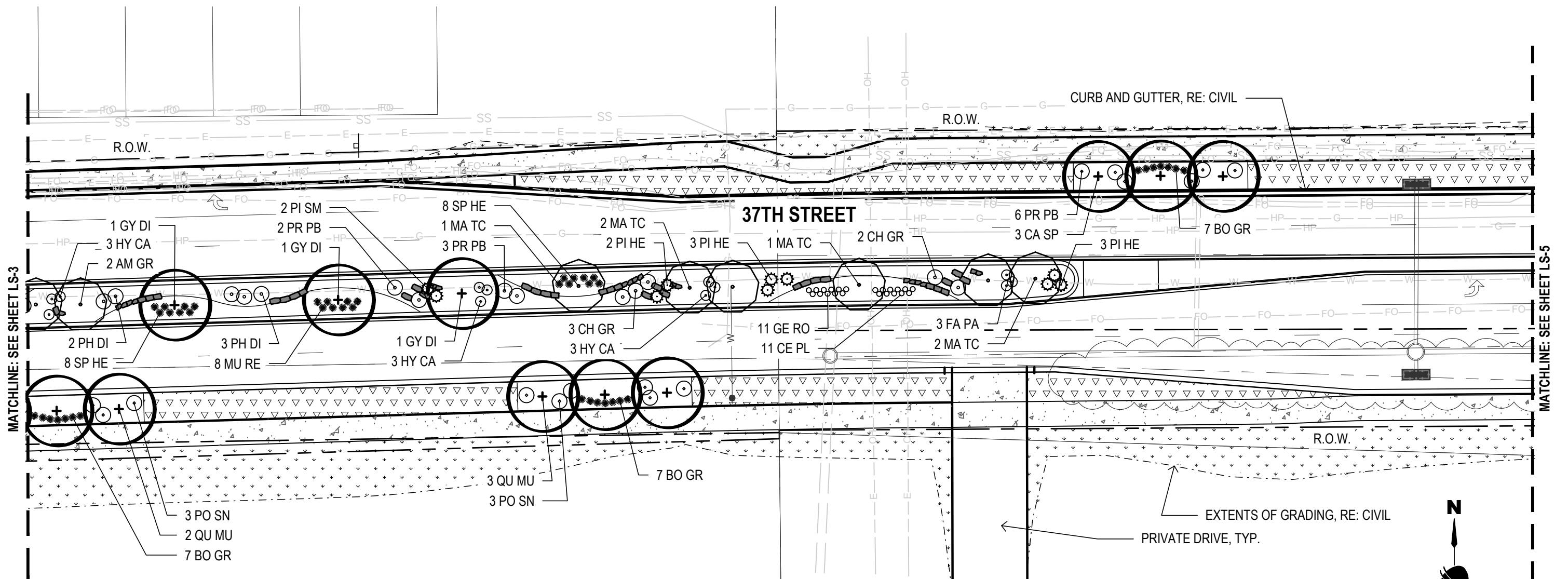


As Constructed  
No Revisions:  
Revised:  
Void:

37TH STREET WIDENING PHASE 2A  
LANDSCAPE PLAN

Designer: DE  
Detailer: DE  
Sheet Subset: LANDSCAPE  
Structure Numbers  
Subset Sheets: 4 of 35

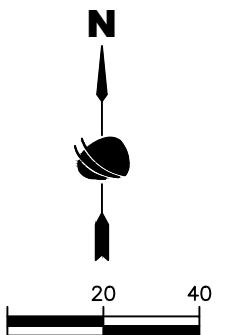
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Drawing Number LS-4  
Sheet Number 86



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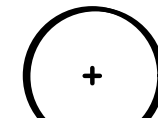
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- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- EVERGREEN SHRUBS
- ORNAMENTAL GRASS
- PERENNIAL
- SEED - TYPE 1, RE: SWMP
- SEED - TYPE 2, RE: SWMP


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





FOR CONSTRUCTION 2/24/2024


LEGEND


- 


DECIDUOUS SHADE TREE
- 


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- 

DECIDUOUS SHRUB
- 

EVERGREEN SHRUBS
- 

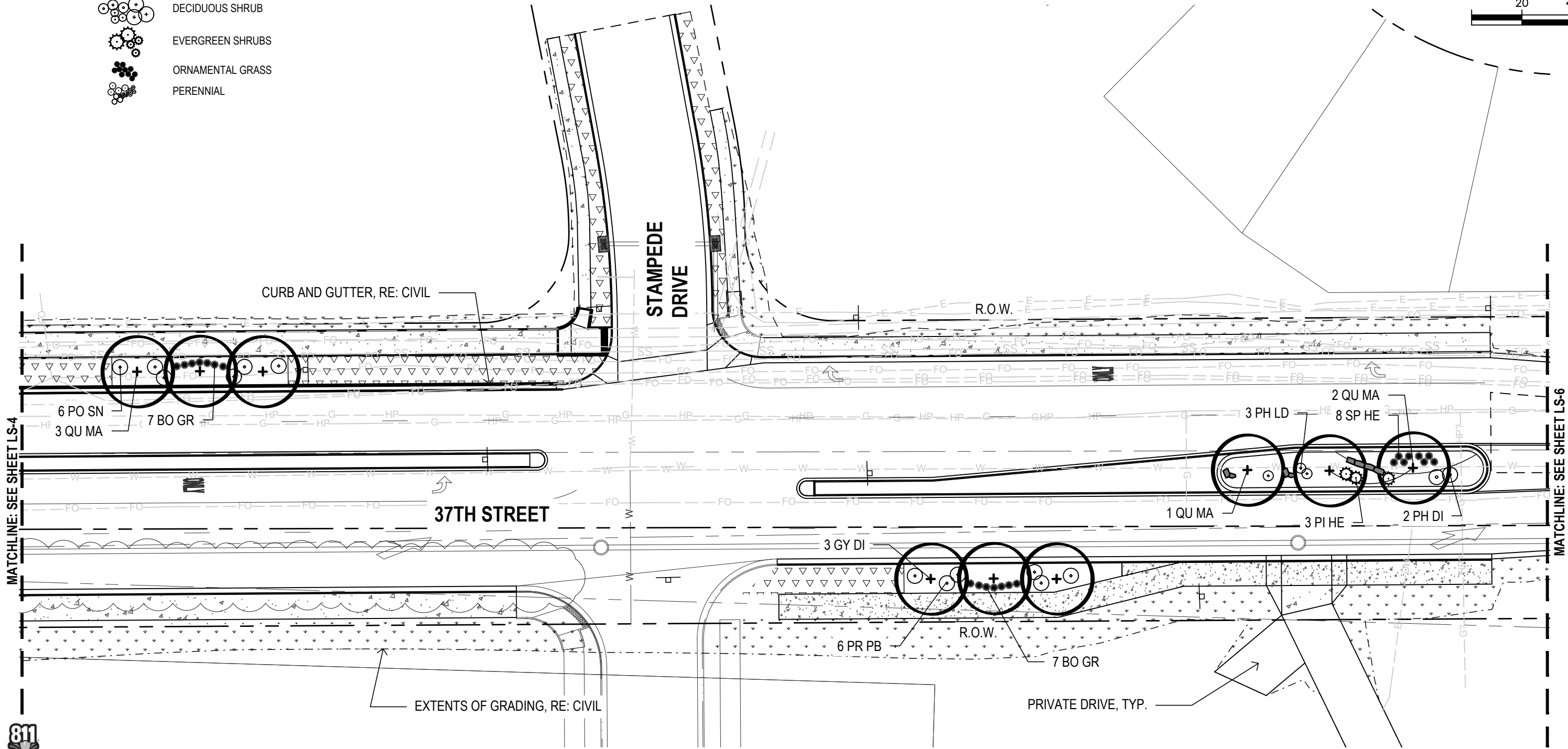
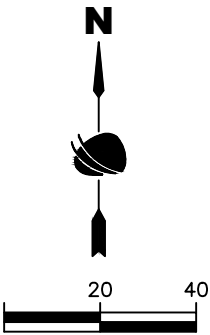
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PERENNIAL
- 

SEED - TYPE 1, RE: SWMP
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SEED - TYPE 2, RE: SWMP

NOTES:  
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RESTORING AREAS AFFECTED BY  
GRADING OR CONSTRUCTION BEYOND  
THOSE AREAS INDICATED ON THIS PLAN



Print Date: 1/26/2024

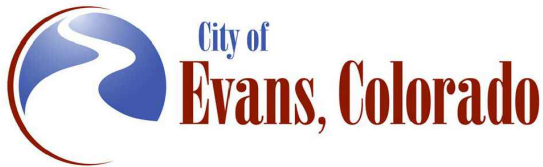
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Sheet Revisions			
Date:	Comments	Init.	





As Constructed	37TH STREET WIDENING PHASE 2A LANDSCAPE PLAN			Project No.
No Revisions:				AQC M415-021
Revised:	Designer: DE	Structure		Drawing Number LS-5
Void:	Detailer: DE	Numbers		Sheet Number 87
	Sheet Subset: LANDSCAPE	Subset Sheets: 5 of 35		


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FOR CONSTRUCTION 2/24/2024


LEGEND


- 


DECIDUOUS SHADE TREE
- 


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- 

DECIDUOUS SHRUB
- 

EVERGREEN SHRUBS
- 

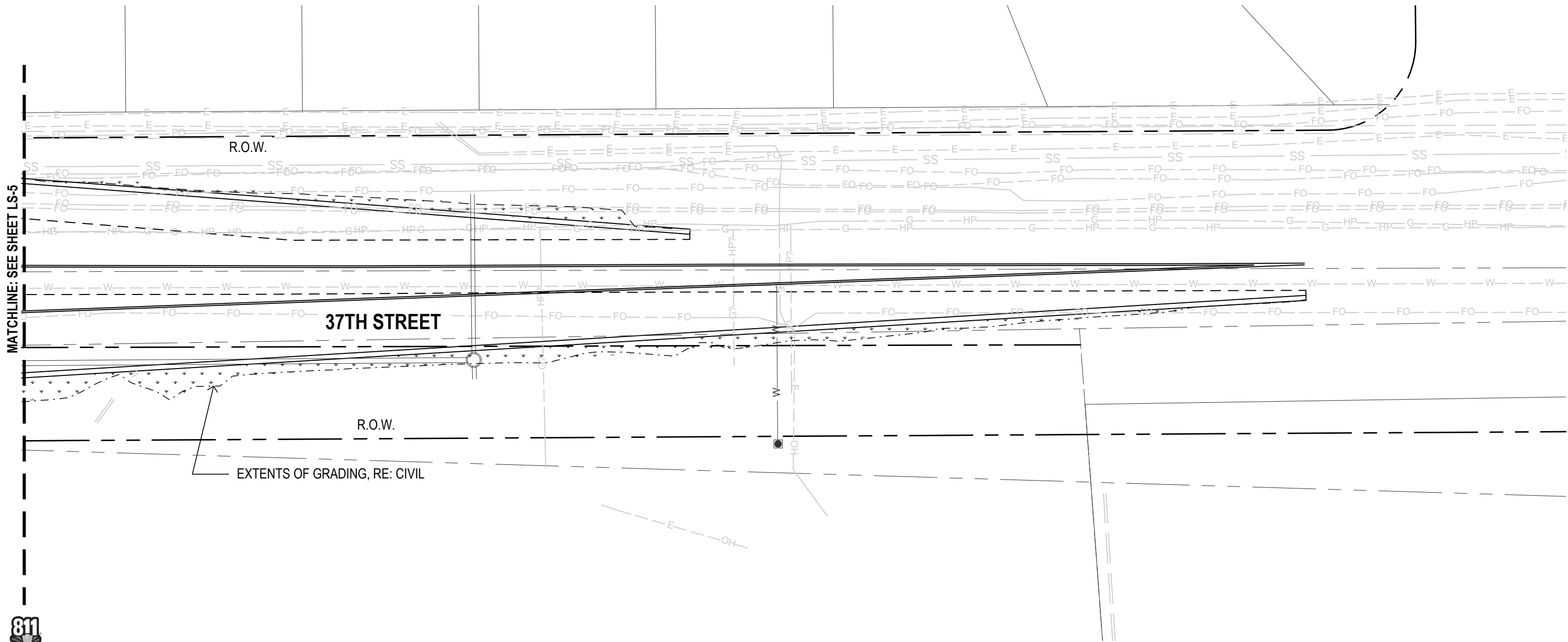
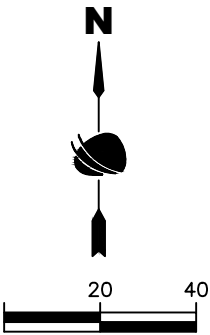
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- 

PERENNIAL
- 

SEED - TYPE 1, RE: SWMP
- 

SEED - TYPE 2, RE: SWMP

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



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No Revisions:				AQC M415-021	
Revised:	Designer:	DE	Structure	Drawing Number LS-6	
	Detailer:	DE	Numbers		
Void:	Sheet Subset: LANDSCAPE		Subset Sheets: 6 of 35		Sheet Number 88

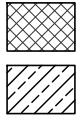
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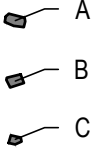


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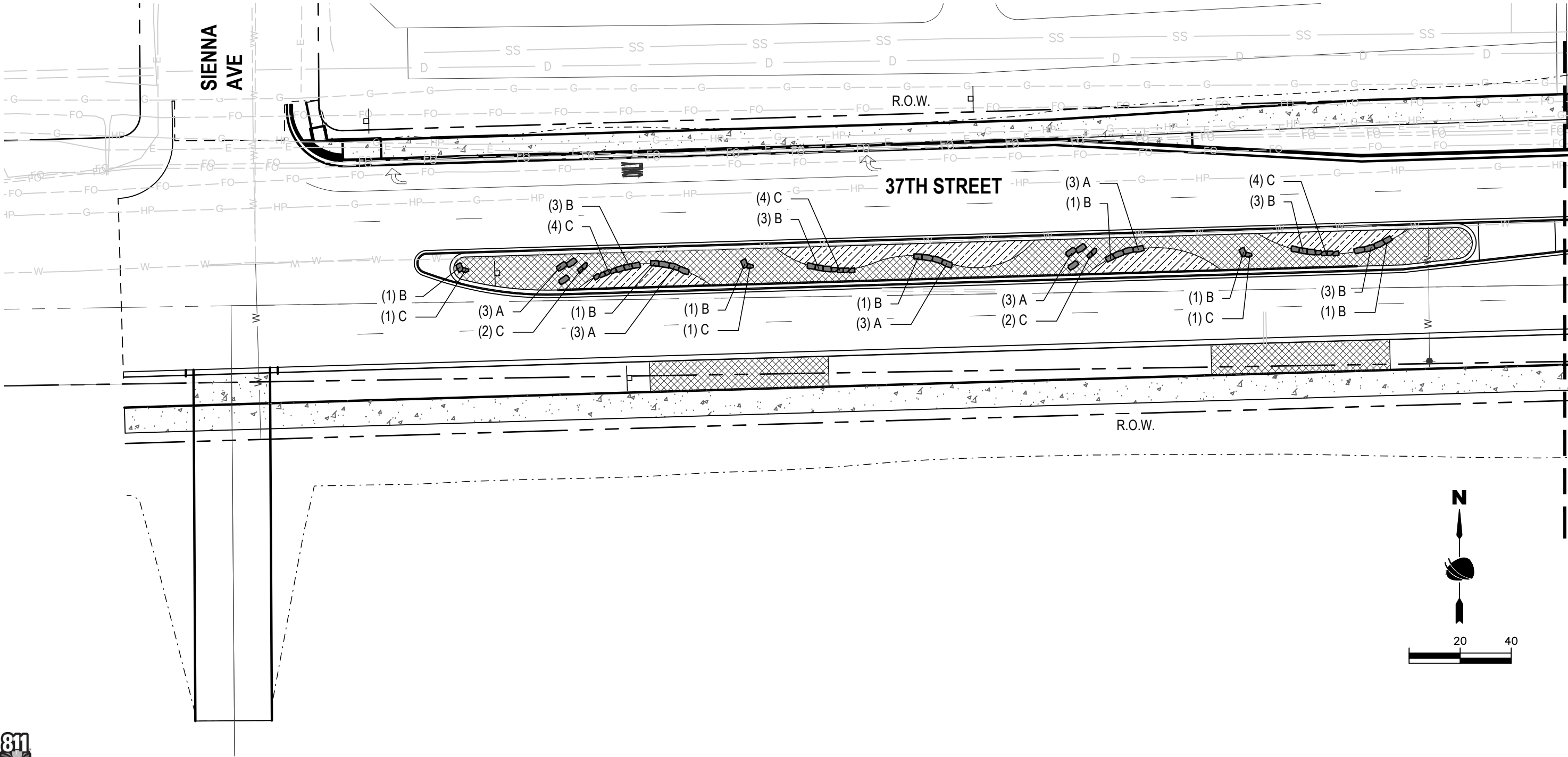


ORGANIC MULCH  
INORGANIC MULCH

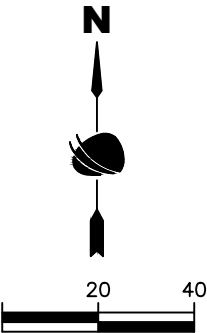


LANDSCAPE BOULDER A  
LANDSCAPE BOULDER B  
LANDSCAPE BOULDER C

NOTES:  
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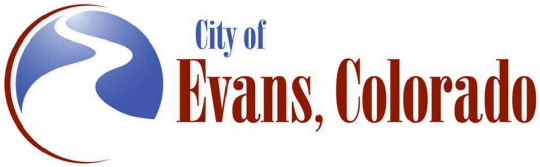
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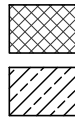


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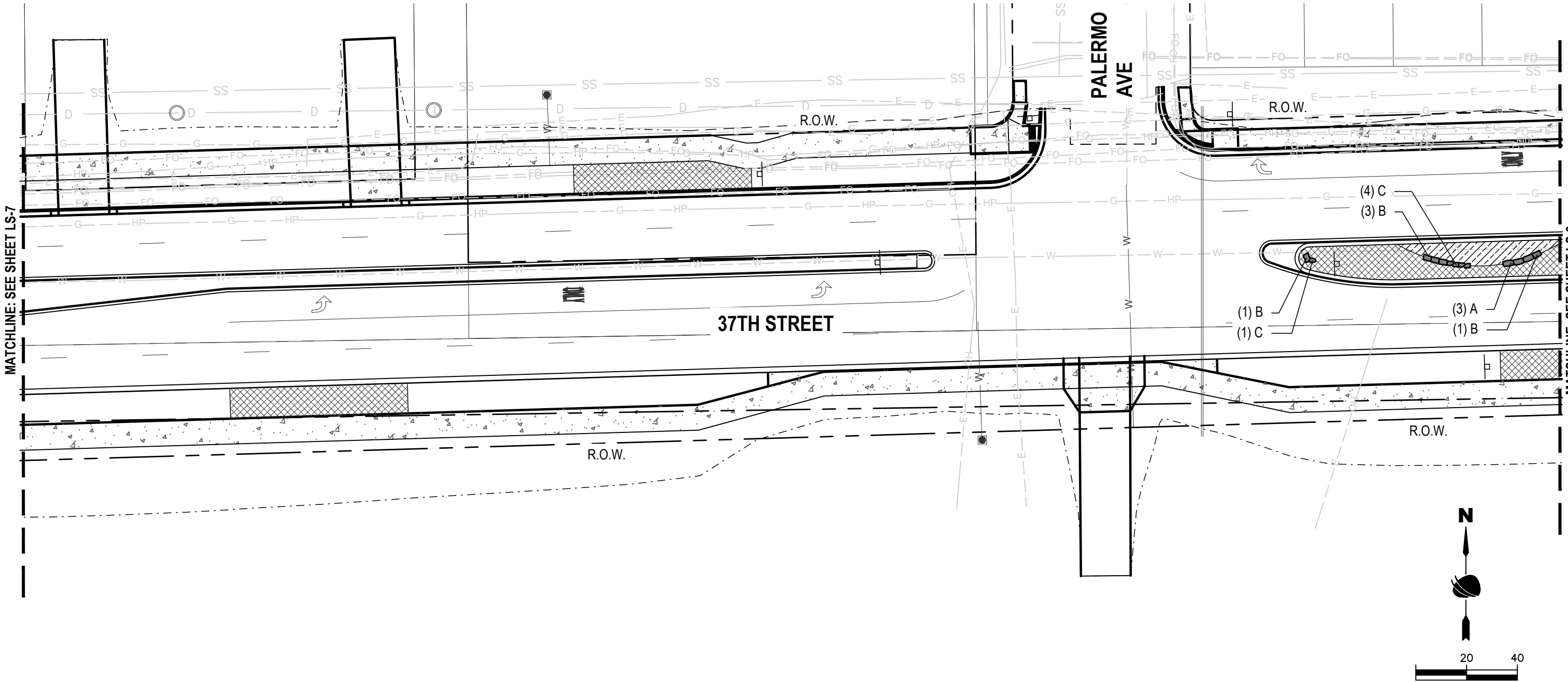


ORGANIC MULCH  
INORGANIC MULCH



LANDSCAPE BOULDER A  
LANDSCAPE BOULDER B  
LANDSCAPE BOULDER C

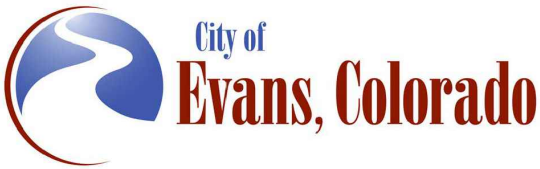
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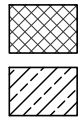
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No Revisions:				AQC M415-021
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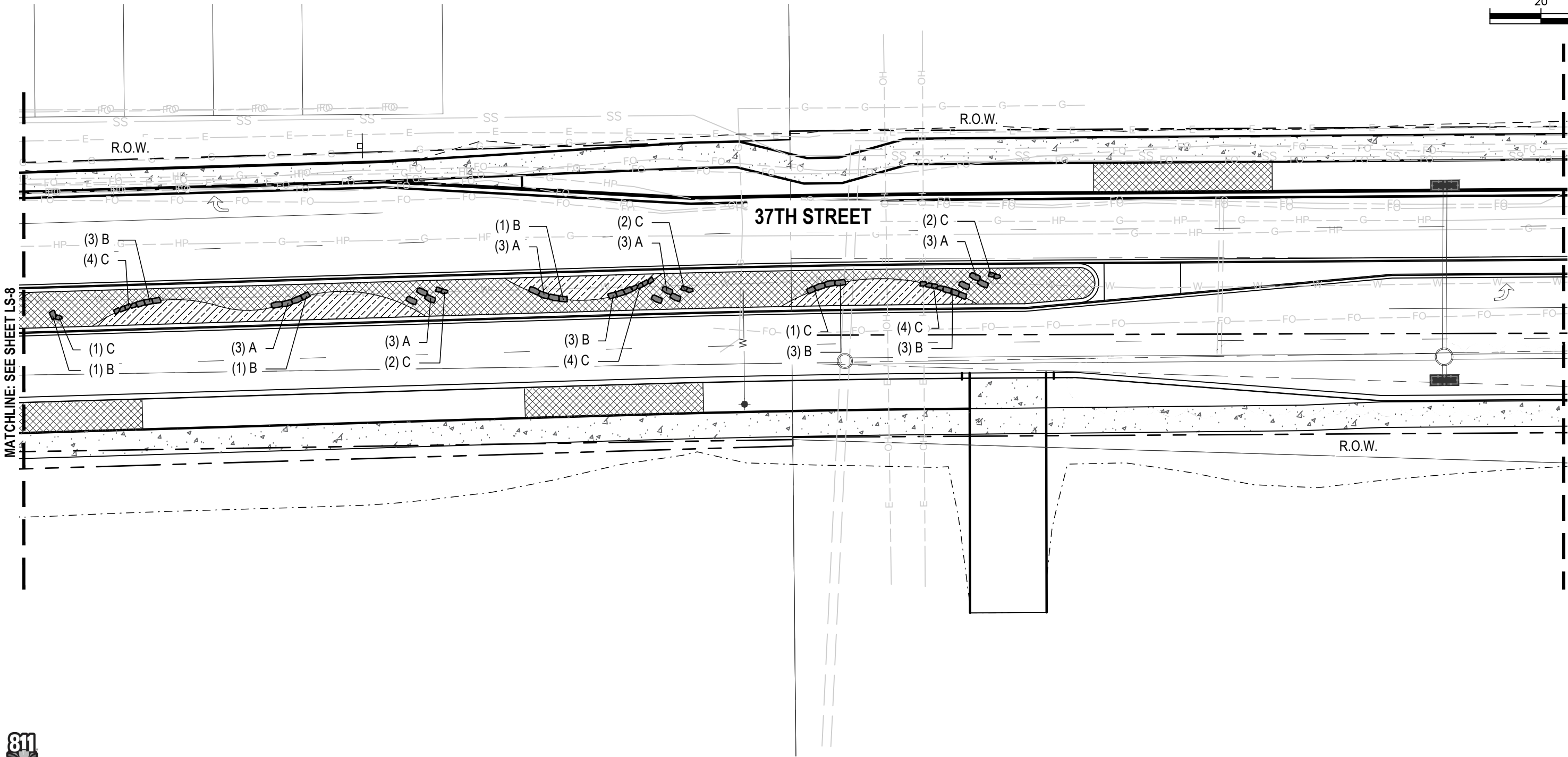
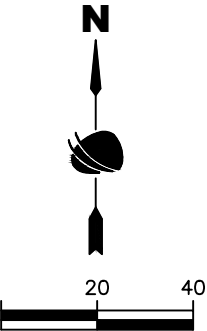


ORGANIC MULCH  
INORGANIC MULCH



LANDSCAPE BOULDER A  
LANDSCAPE BOULDER B  
LANDSCAPE BOULDER C

NOTES:  
CONTRACTOR RESPONSIBLE FOR  
RESTORING AREAS AFFECTED BY  
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MATCHLINE: SEE SHEET LS-8

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No Revisions:				AQC M415-021
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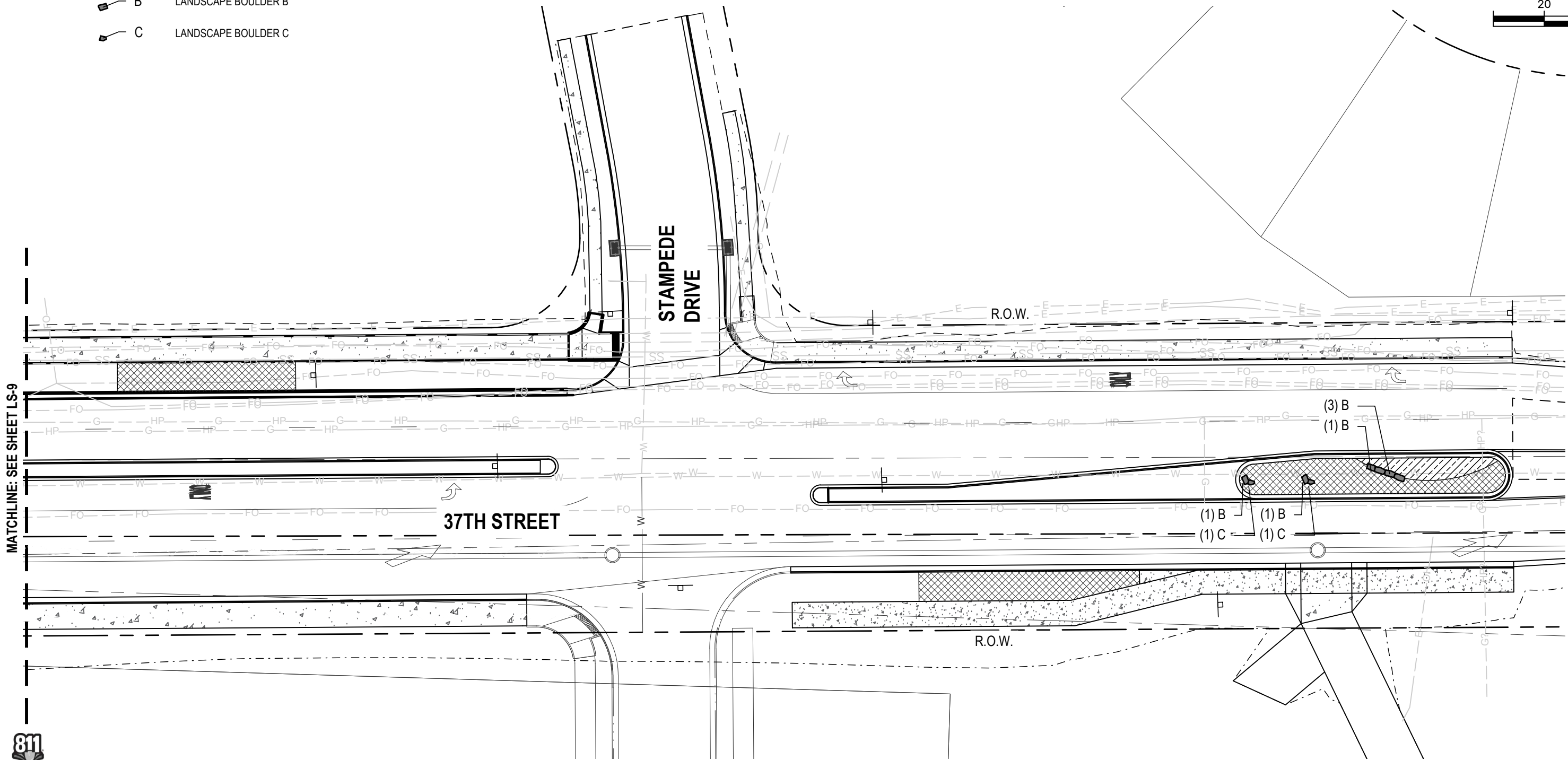
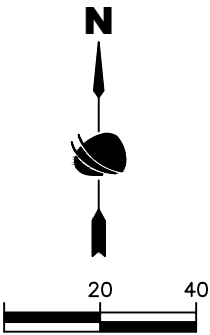
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LEGEND

- ORGANIC MULCH
- INORGANIC MULCH
- A LANDSCAPE BOULDER A
- B LANDSCAPE BOULDER B
- C LANDSCAPE BOULDER C

NOTES:  
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MATCHLINE: SEE SHEET LS-9



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No Revisions:				AQC M415-021
Revised:	Designer: DE	Structure		Drawing Number LS-11
	Detailer: DE	Numbers		
Void:	Sheet Subset: LANDSCAPE	Subset Sheets: 11 of 35		Sheet Number 93

# PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	ROOT	QTY	FLOWER COLOR	FLOWER SEASON	SIZE AT MATURITY
SHADE TREES								
CA SP	Catalpa speciosa	Western Catalpa	2" Cal.	B&B	9	White	Summer	50-60't., 30-40' w.
CE OC	Celtis occidentalis	Hackberry	2" Cal.	B&B	6	N/A	N/A	50-60't., 30-40' w.
GY DI	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffeetree	2" Cal.	B&B	6	N/A	N/A	50-60't., 35-45' w
QU MU	Quercus muehlenbergia	Chinkapin Oak	2" Cal.	B&B	9	NA	NA	50-60't., 35-45' w.
QU MA	Quercus macrocarpa	Bur Oak	2" Cal.	B&B	6	NA	NA	50-60't., 35-45' w.
ORNAMENTAL TREES								
AM GR	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1.5" Cal.	B&B	3	White	Spring	15-20't., 15-20' w.
MA TC	Malus 'Thunderchild'	Thunderchild Crabapple	1.5" Cal.	B&B	9	Pink	Spring	15-20't., 15-20' w.
SY RE	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	1.5" Cal.	B&B	3	White	Spring	15-20't., 15-20' w.
DECIDUOUS SHRUBS								
CA CL	Caryopteris x clandonensis 'Dark Knight'	Dark Knight Spirea	5 Gal.	Cont.	6	Purple	Summer	2-3' t., 2-3' w.
CH NA	Chrysothamnus nauseosus nauseosus	Dwarf Baby Blue Rabbitbrush	5 Gal.	Cont.	6	Yellow	Late Summer	1-2' t., 2-4' w.
CH GR	Chrysothamnus nauseosus graveolens	Tall Green Rabbitbrush	5 Gal.	Cont.	13	Yellow	Late Summer	4-6' t., 4-6' w.
EP MI	Ephedra minima	Dwarf Joint Fir	5 Gal.	Cont.	3	Red Berries	Summer	2-4" t., 2-3' w.
HY CA	Hypericum calycinum	Creeping St. John's Wort	5 Gal.	Cont.	9	Yellow	Spring/Simmer	1-2' t., 2-4' w.
FA PA	Fallugia paradoxa	Apache Plume	5 Gal.	Cont.	3	White/Pink	Summer	3-5' t., 3-5' w.
PH DI	Physocarpus opulifolius Diabolo	Diabolo Ninebark	5 Gal.	Cont.	15	White	Summer	8' t., 8' w.
PH LD	Physocarpus opulifolius Little Devil	Little Devil Ninebark	5 Gal.	Cont.	3	White/pink	Summer	4' t., 4' w.
PO SN	Potentilla fruticosa 'Davurica'	Prairie Snow Potentilla	5 Gal.	Cont.	27	White	Summer	1-2' t., 3-6' w.
PR PB	Prunus besseyi 'Pawnee Buttes'	Creeping Western Sandcherry	5 Gal.	Cont.	32	White	Spring	1-2' t., 6' w.
EVERGREEN SHRUBS								
PI SM	Picea pungens 'St. Mary's Broom'	St. Mary's Blue Spruce	5 Gal.	Cont.	9	-	-	18-24" t., 3-4' w.
PI HE	Pinus nigra 'Helga'	Dwarf Austrian Pine	5 Gal.	Cont.	18	-	-	4-6' t., 4-6' w.
ORNAMENTAL GRASSES								
BO GR	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Grama Grass	1 Gal.	Cont.	63	Blonde	Summer-Fall	3' t., 2' w.
MU RE	Muhlenbergia reverchonii 'Ruby Muhly'	Undaunted Ruby Muhly Grass	1 Gal.	Cont.	26	Ruby	Late Summer	15-30" t., 18-24" w.
SP HE	Sporobolus heterolepis	Prairie Dropseed	1 Gal.	Cont.	32	Golden Orange Fall		18-24" t. 15-20" w.
PERENNIALS, GROUNDCOVERS								
AR FR	Artemisia frigida	Fringed Sage	1 Gal.	Cont.	11	Yellow	Late Summer	12" t., 24" w.
CE PL	Ceratostigma plumbaginoides	Plumbago	4" Pot	Cont.	11	Blue	Mid-Late Summer	12" t., 24" w.
GE RO	Geranium 'Gerwat' rozanne	Blue Cranesbill	1 Gal.	Cont.	11	Blue/Purple	Spring-Fall	18-20" t., 36" w.
OE MA	Oenothera macrocarpa	Missouri Evening Primrose	1 Gal.	Cont.	11	Lemon Yellow	Mid-Summer	12" t., 24" w.
ZA GA	Zauschneria garrettii 'PWWG01S'	Org. Carpet Hummingbird Mint	1 Gal.	Cont.	22	Orange	Summer-Fall	8" t., 18" w.

FOR CONSTRUCTION 2/24/2024

LANDSCAPE NOTES

1. REFERENCE THE SWMP DRAWINGS FOR ADDITIONAL INFORMATION ON SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING, AS WELL AS CITY OF EVAN'S STANDARDS.
2. 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

3. 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.
4. 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.
5. 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

- 6.1. 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.
- 6.2. 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
- 7.A.1. 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 REVEGETATION. 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.
- 7.A.2. 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:
- 7.B.1. 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

8. 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.
9. 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:**
- 10.A. 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.
- 10.B. THE INSPECTION WILL OCCUR ONLY AFTER THE FOLLOWING CONDITIONS HAVE BEEN MET:
- 10.B.1. LANDSCAPE AREAS WILL BE FREE OF WEEDS AND NEATLY CULTIVATED;
- 10.B.2. PLANT BASINS SHALL BE IN GOOD REPAIR;
- 10.B.3. IRRIGATION SYSTEMS SHALL BE FULLY OPERATIONAL WITH HEADS PROPERLY ADJUSTED;
- 10.B.4. DEBRIS AND LITTER SHALL BE CLEANED UP AND WALKWAYS AND CURBS SHALL BE CLEANED OF SOIL AND DEBRIS LEFT FROM PLANTING OPERATIONS.
11. 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.
12. 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.
13. 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).
14. FINAL APPROVAL AND SUBSTANTIAL COMPLETION NOTICE WILL BE GIVEN WHEN ALL DEFICIENCIES ARE CORRECTED.
15. **WARRANTY:**
- 15.A. 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.
- 15.A.1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- 15.A.1.a. 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.
- 15.A.1.b. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
- 15.A.1.c. FAULTY OPERATION OF TREE STABILIZATION.
- 15.A.1.d. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
- 15.B. WARRANTY PERIODS FROM DATE OF SUBSTANTIAL COMPLETION:
- 15.B.1. TREES, SHRUBS, ORNAMENTAL GRASSES, AND PERENNIALS: ONE YEAR.
- 15.C. INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:
- 15.C.1. REMOVE DEAD EXTERIOR PLANTS IMMEDIATELY. REPLACE IMMEDIATELY UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.
- 15.C.2. REPLACE EXTERIOR PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.
- 15.C.3. PROVIDE EXTENDED WARRANTY FOR REPLACED PLANT MATERIALS; WARRANTY PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD.
16. **MAINTENANCE SERVICE**
- 16.A. 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:

- 17.A. 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:**
- 18.A. 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.
- 18.B. WATERING:
- 18.B.1. 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.
- 18.B.2. 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.
- 18.B.3. WATER LAWN WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.
- 18.C. 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.
- 18.D. LAWN POSTFERTILIZATION:
- 18.D.1. APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY.

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File Name: 1914\_37TH\_LANDSCAPE PLAN2A.DWG

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	Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A LANDSCAPE NOTES			Project No.
	No Revisions:			AQC M415-021
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	Detailer:	DE	Numbers	
Void:	Sheet Subset: LANDSCAPE		Subset Sheets: 12 of 35	Sheet Number 94

FOR CONSTRUCTION 2/24/2024



# TREE PROTECTION NOTES

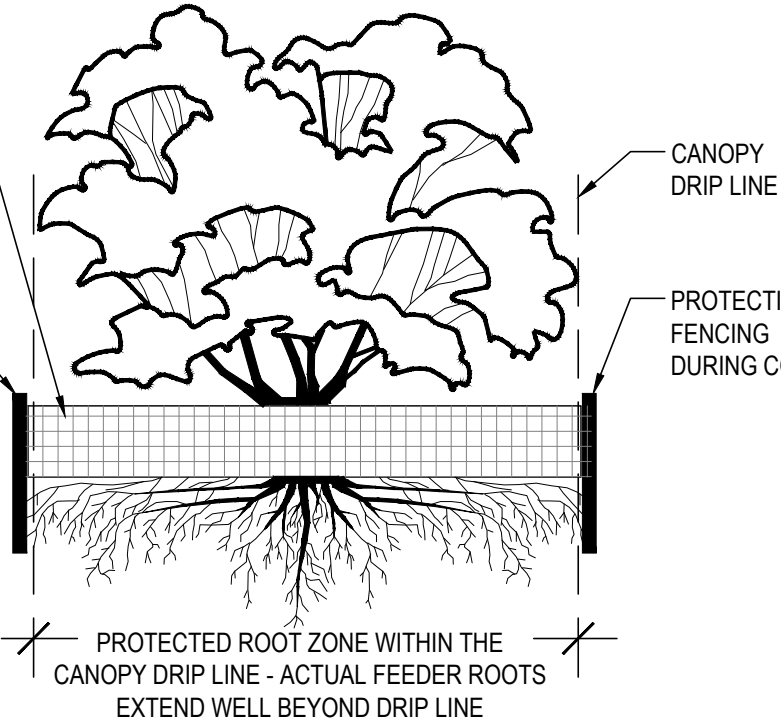
- EXISTING TREES WITHIN THE LIMITS OF THE DEVELOPMENT SHALL REMAIN AND BE PROTECTED UNLESS NOTED ON THESE PLANS FOR REMOVAL.
- WITHIN THE DRIP LINE OF PROTECTED EXISTING TREE, THERE SHALL BE NO CUT OR FILL OVER A FOUR-INCH DEPTH UNLESS A QUALIFIED ARBORIST OR FORESTER HAS EVALUATED AND APPROVED THE DISTURBANCE.
- 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 (½) 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 BREAST HEIGHT AS DESCRIBED IN THE CHART BELOW:

TREE DIAMETER AT BREAST 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"h. MINIMUM

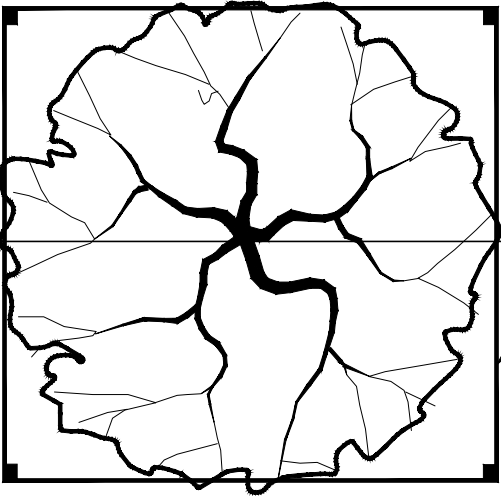
FENCE POSTS SHALL BE COMPARABLE TO METAL T-POSTS OR HEAVIER, AND PLACED AT LEAST 12" IN SOLID GROUND

SECTION



SEE SECTION

PLAN



FENCING MATERIAL SHALL BE PLACED AT THE DRIP LINE OR AT LEAST 10' FROM ANY TREE TRUNK, WHICHEVER IS GREATER AND SHALL ENCLOSE TREE. FENCING SHALL BE MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONST.

**TREE PROTECTION NOTES:**

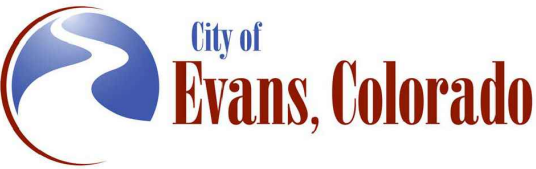
- TO PREVENT SOIL COMPACTION WITH IN PROTECTED ROOT ZONES, DESIGNATED ROUTES FOR EQUIPMENT AND FOOT TRAFFIC BY WORK CREWS SHALL BE DETERMINED PRIOR TO COMMENCING ACTIVITIES AND INDICATED IN THESE CONST. DOCUMENTS.
- PLANNED ROUTES SHALL BE MARKED AT THE SITE BEFORE CONST. COMMENCES.
- THE CONTRACTOR SHALL INFORM CONSTRUCTION CREW MEMBERS AND SUBCONTRACTORS OF THE ROUTES AND ENSUE 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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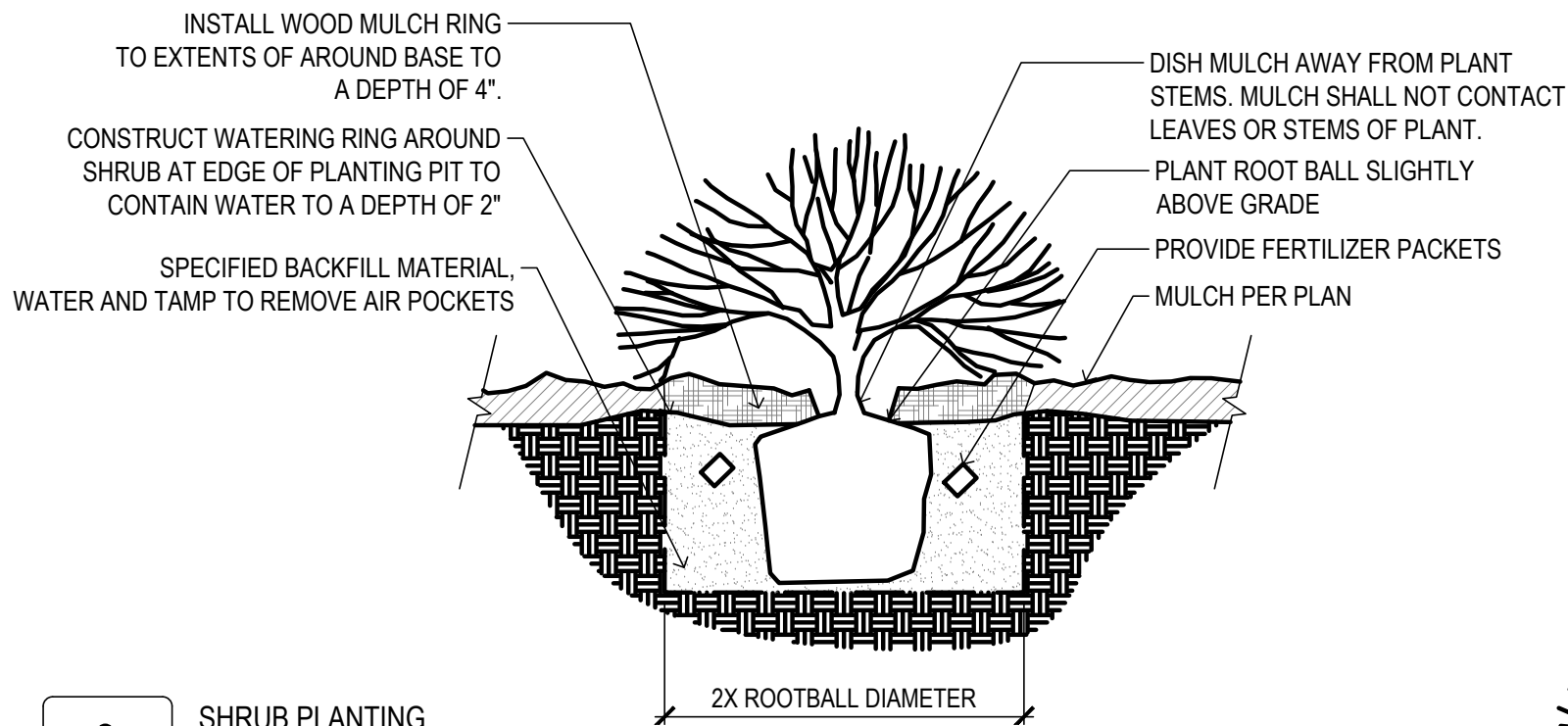
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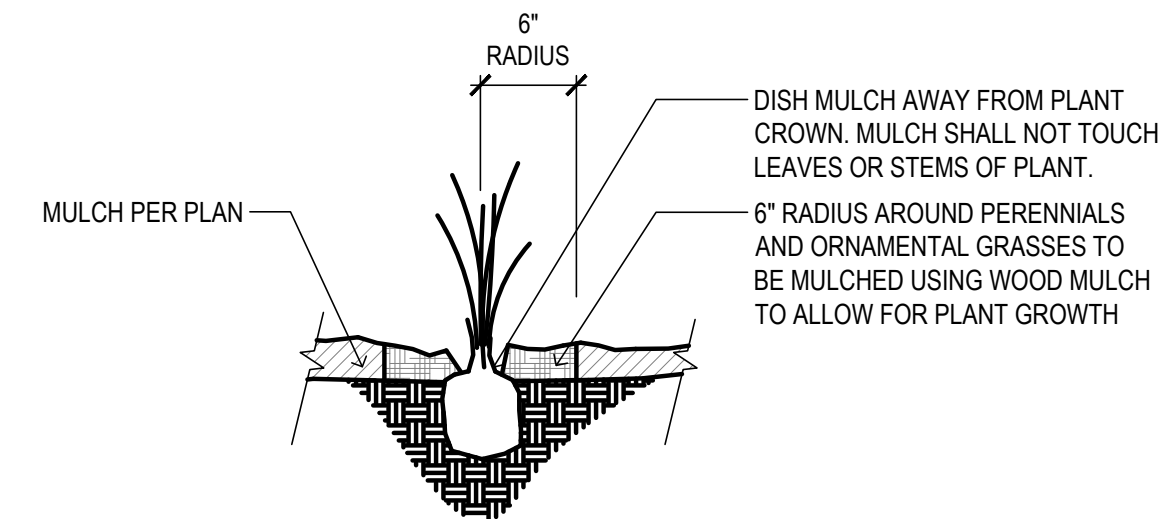
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3

### SHRUB PLANTING

SCALE: NTS



2

### PERENNIAL AND GRASSES PLANTING

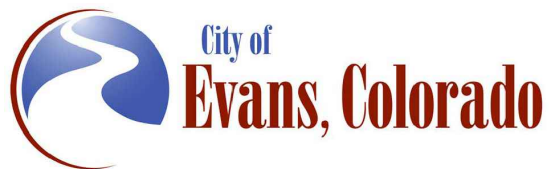
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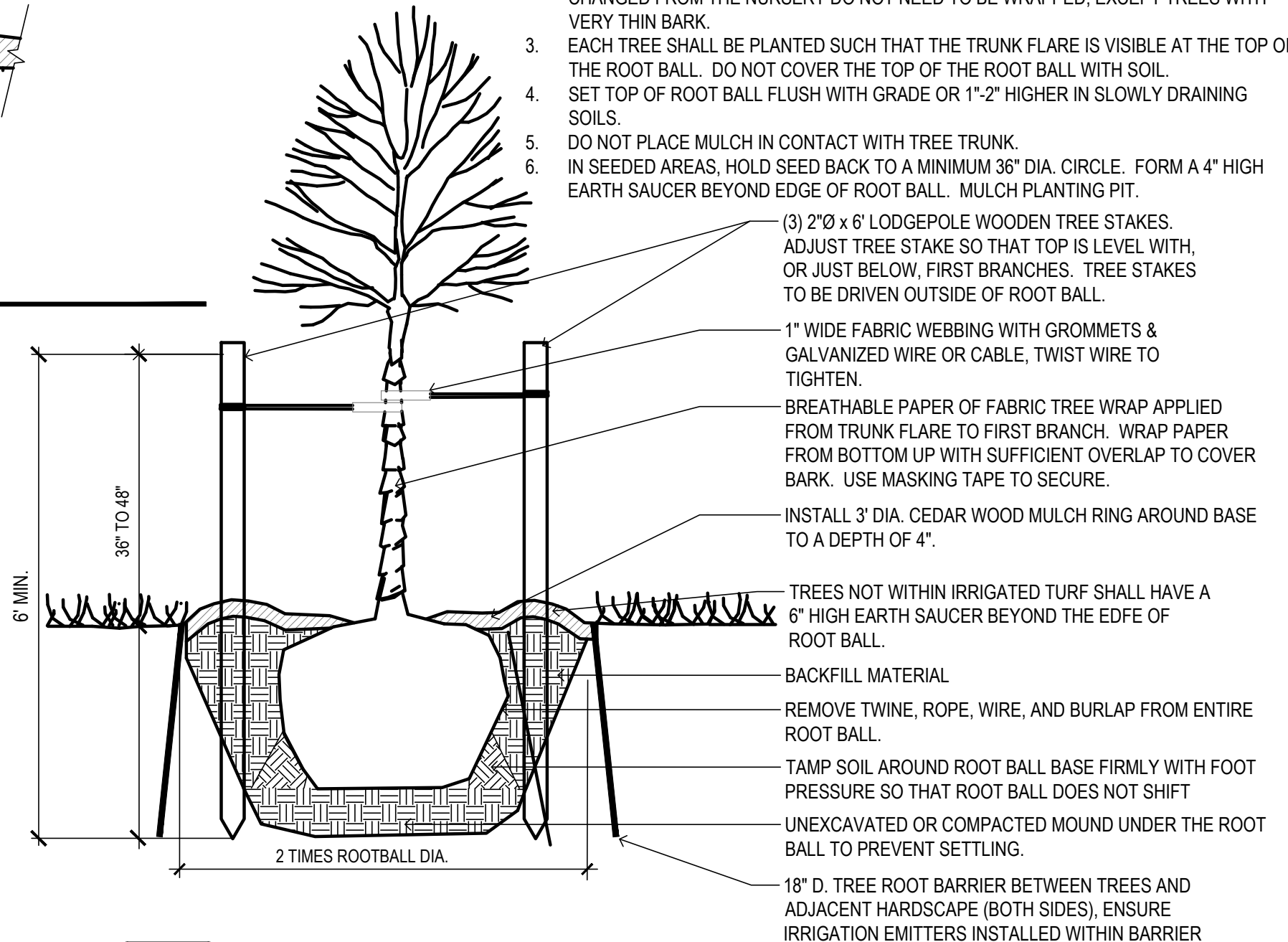
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### DECIDUOUS TREE PLANTING

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.

(3) 2"Ø x 6' LODGEPOLE WOODEN TREE STAKES. ADJUST TREE STAKE SO THAT TOP IS LEVEL WITH, OR JUST BELOW, FIRST BRANCHES. TREE STAKES TO BE DRIVEN OUTSIDE OF ROOT BALL.

1" WIDE FABRIC WEBBING WITH GROMMETS & GALVANIZED WIRE OR CABLE, TWIST WIRE TO TIGHTEN.

BREATHABLE PAPER OF FABRIC TREE WRAP APPLIED FROM TRUNK FLARE TO FIRST BRANCH. WRAP PAPER FROM BOTTOM UP WITH SUFFICIENT OVERLAP TO COVER BARK. USE MASKING TAPE TO SECURE.

INSTALL 3' DIA. CEDAR WOOD MULCH RING AROUND BASE TO A DEPTH OF 4".

TREES NOT WITHIN IRRIGATED TURF SHALL HAVE A 6" HIGH EARTH SAUCER BEYOND THE EDGE OF ROOT BALL.

BACKFILL MATERIAL

REMOVE TWINE, ROPE, WIRE, AND BURLAP FROM ENTIRE ROOT BALL.

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT

UNEXCAVATED OR COMPACTED MOUND UNDER THE ROOT BALL TO PREVENT SETTLING.

18" D. TREE ROOT BARRIER BETWEEN TREES AND ADJACENT HARDSCAPE (BOTH SIDES), ENSURE IRRIGATION EMITTERS INSTALLED WITHIN BARRIER

FOR CONSTRUCTION 2/24/2024

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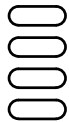


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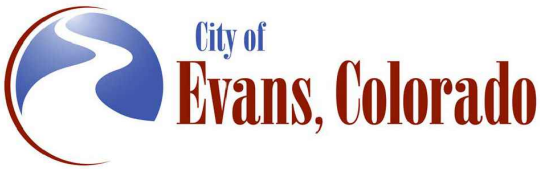
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TOP SURFACE OF BOULDERS  
WITHIN SIGHT TRIANGLES SHALL BE  
35" MAX ABOVE STREET LEVEL

HT. VARIES, 12"-24"  
ABOVE CURB, SEE PLAN  
6" MIN.  
6"

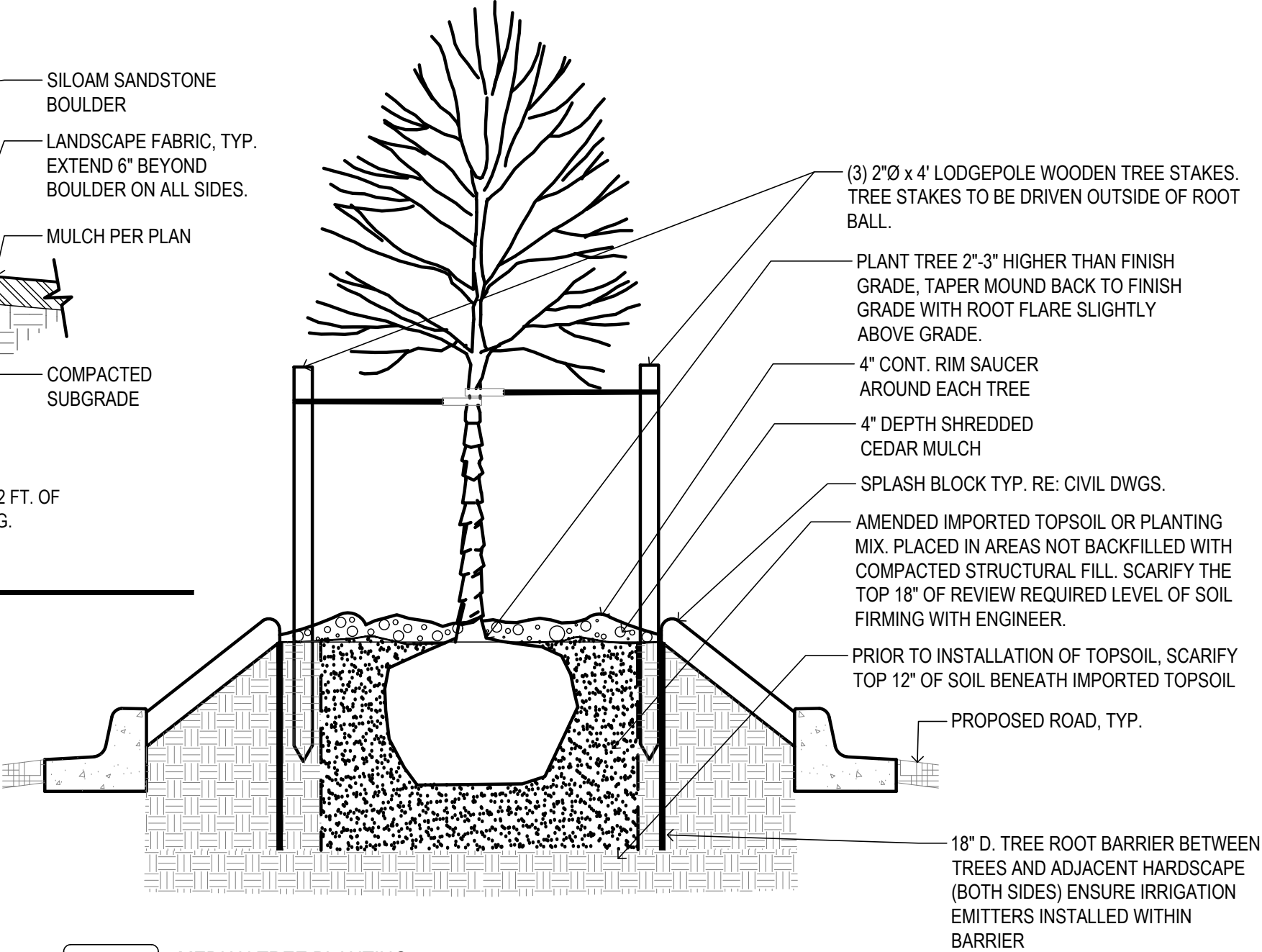
SILOAM SANDSTONE  
BOULDER  
LANDSCAPE FABRIC, TYP.  
EXTEND 6" BEYOND  
BOULDER ON ALL SIDES.  
MULCH PER PLAN  
COMPACTED  
SUBGRADE

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  
SCALE: NTS

FOR CONSTRUCTION 2/24/2024



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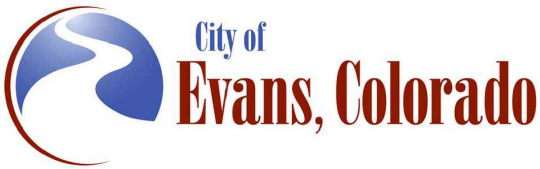
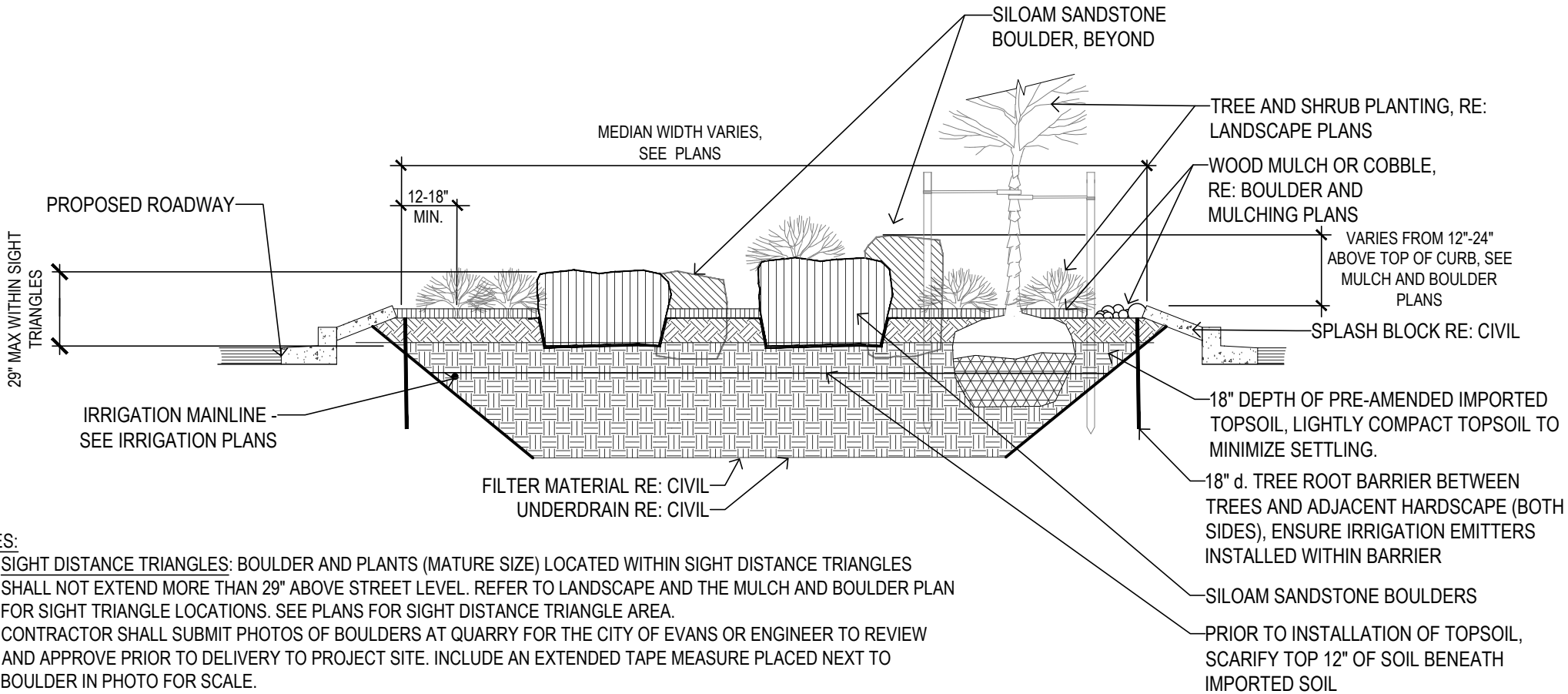
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MEDIAN CROSS SECTION

SCALE: NTS

NOTES:

- 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.
- 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.
- THE CITY OF EVANS OR ENGINEER SHALL REVIEW AND APPROVE BOULDER LOCATIONS PRIOR TO PLACEMENT. LOCATIONS SHOULD BE STAKED FOR REVIEW.
- VERTICAL JOINTS BETWEEN BOULDERS SHALL NOT EXCEED 1". STONE CHINKING IS NOT ACCEPTABLE.
- DAMAGED/SCARRED BOULDERS MAY BE REJECTED BY THE CITY OF EVANS OR ENGINEER.
- COMPACT SOIL BENEATH BOULDERS TO REDUCE SETTLING.
- 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.



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	Detailer: DE	Numbers		
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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).

RAW WATER FROM THE EXISTING TUSCANY IRRIGATION PUMP STATION WILL BE USED FOR IRRIGATION. THE POINT-OF-CONNECTION (P.O.C.) WILL BE AS SHOWN ON THE IRRIGATION PLANS.

- SINCE THE IRRIGATION SYSTEM UTILIZES NON-POTABLE WATER, THE FOLLOWING ITEMS ARE REQUIRED:
- IRRIGATION PIPING (SLEEVES, MAINLINE, LATERAL) IS PURPLE
  - IRRIGATION EQUIPMENT DESIGNED FOR NON-POTABLE USE (IE. DIRTY WATER VALVES)
  - SPRINKLERS TO HAVE PURPLE TOPS
  - VALVE BOXES TO HAVE PURPLE LIDS

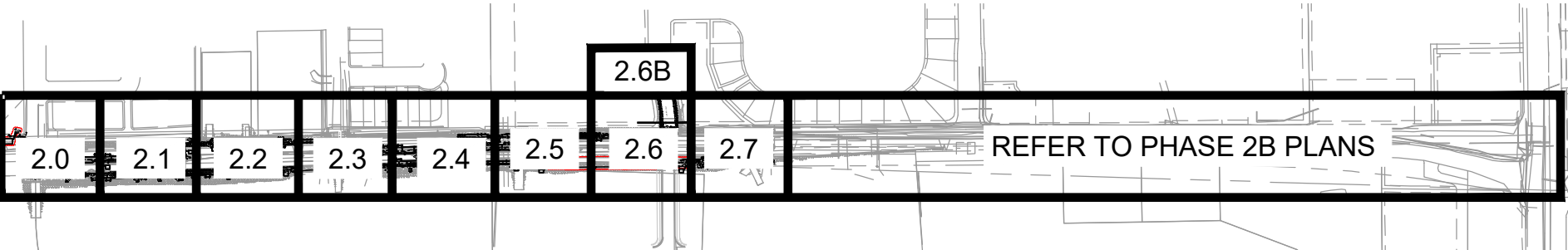
A PEDESTAL MOUNT IRRIGATION CONTROLLER COMPATIBLE WITH THE CITY OF EVANS EXISTING CENTRAL CONTROL SYSTEM MUST BE INSTALLED UNDER THIS CONTRACT. A FLOW SENSOR AND MASTER VALVE WILL BE UTILIZED TO FACILITATE AUTOMATIC SHUT DOWN OF THE IRRIGATION SYSTEM IN THE EVENT OF A MAINLINE PIPE BREAK.

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.

MAINLINE AND TWO WIRE CABLE MUST BE STUBBED OUT FOR FUTURE USE (PHASE 2B). REFER TO IRRIGATION PLANS FOR ADDITIONAL INFORMATION.

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.



KEYMAP  
N.T.S.



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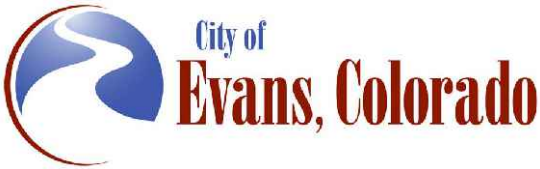
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www.aquaengineering.com

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As Constructed	37TH STREET WIDENING PHASE 2A IRRIGATION COVER SHEET				Project No.	
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FOR CONSTRUCTION 2/24/2024

LEGEND

---	EXISTING MAINLINE PIPE
=====	SLEEVING *TYPE: CLASS 200 PVC, COLOR PURPLE
=====	MAINLINE PIPE *TYPE: CLASS 200 PVC, SIZE PER PLAN, COLOR PURPLE
-----	LATERAL PIPE TO SPRINKLERS AND INLINE DRIP RINGS *TYPE: CLASS 200 PVC, COLOR PURPLE *1-INCH UNLESS OTHERWISE NOTED
---	MANIFOLD PIPE TO ZONE CONTROL VALVES *TYPE: CLASS 200 PVC, COLOR PURPLE *SIZE: 1-INCH
~~~~~	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
-----	INLINE DRIP TO TREES *TYPE: RAIN BIRD XFCV, 0.9 GPH/EMITTER, 12-INCH EMITTER SPACING *INSTALL CHRIS CROSS PATTERN THROUGH TREE AREAS (REFER TO DETAIL)
=====	INLINE DRIP HEADER PIPE *TYPE: CLASS 200 PVC, COLOR PURPLE *SIZE: 1-INCH
---	UNCONNECTED PIPE CROSSING
---	POINT-OF-CONNECTION (P.O.C.)
---	STUB OUT FOR FUTURE USE
Ⓜ	MASTER VALVE ASSEMBLY: *MODEL: GRISWOLD 2000, NORMALLY CLOSED *SIZE: REFER TO PLAN *DECODER: BASELINE BL-5201
Ⓣ	FLOW SENSOR ASSEMBLY: *MODEL: FLOMEC QS200 *SIZE: 1.5-INCH *DECODER: BASELINE BL-5309 FLOW SENSOR BICODER
⊗	ISOLATION GATE VALVE ASSEMBLY *MODEL (2.5-INCH AND SMALLER): NIBCO T113K OR EQUAL *MODEL (3-INCH AND LARGER): MATCO 10RT *NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE
Ⓛ	BLOW OUT ASSEMBLY (REFER TO DETAIL)
Ⓢ	QUICK COUPLING VALVE ASSEMBLY *MODEL: RAIN BIRD 44NP OR EQUAL
Ⓜ	AIR VACUUM RELIEF VALVE ASSEMBLY *MODEL: WATERMAN AV-150 *SIZE: 1-1/2-INCH
Ⓢ	REMOTE CONTROL VALVE ASSEMBLY *MODEL: RAIN BIRD PESB-R 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

POP-UP SPRINKLER: RAIN BIRD MPR SERIES ON 1806-SAM-PRS-NP OR EQUAL @ 30 PSI

●●●	RADIUS: 5'	FLOW (GPM): Q - 0.10	H - 0.20	F - 0.41
▲▲▲	RADIUS: 8'	FLOW (GPM): Q - 0.26	H - 0.52	F - 1.05
●●●	RADIUS: 10'	FLOW (GPM): Q - 0.39	H - 0.79	F - 1.58
◆◆◆	RADIUS: 12'	FLOW (GPM): Q - 0.65	H - 1.30	F - 2.60
●●●	RADIUS: 15'	FLOW (GPM): Q - 0.92	H - 1.85	F - 3.70
SS	RADIUS: 4'X'30	FLOW (GPM): SST-1.21		
SS	RADIUT: 4'X'15	FLOW (GPM): EST-0.61		

Ⓜ INLINE DRIP RING ASSEMBLY (TREE IRRIGATION)  
\*RAIN BIRD XFCV, 9 GPH/EMITTER, 12-INCH EMITTER SPACING OR EQUAL

Ⓜ INLINE DRIP FLUSH VALVE ASSEMBLY  
\*REFER TO DETAIL

Ⓜ 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  
\*14 GAUGE P7072D TWO WIRE CABLE (MAXI WIRE)  
\*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

— 2 — TWO WIRE CABLE

B-1	INDICATES CONTROLLER AND CONTROLLER STATION NUMBER
15	INDICATES LATERAL DISCHARGE IN GPM
1"	INDICATES REMOTE CONTROL VALVE SIZE IN INCHES

VALVE BOXES  
\*MODEL: RAIN BIRD VB SERIES OR EQUAL. LID COLORS PURPLE.

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

FLAG NOTES

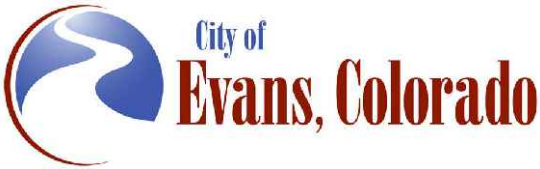
- EXCAVATE AND EXPOSE EXISTING IRRIGATION DISTRIBUTION MAINLINE IN APPROXIMATE LOCATION SHOWN. INSTALL DOUBLE BAND BRASS SERVICE SADDLE (FORD 202BS OR EQUAL) AND INSTALL 2-INCH PVC MAINLINE TO GATE VALVE, MASTER VALVE, AND FLOW SENSOR. COORDINATE CONNECTION WITH OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- INSTALL PEDESTAL MOUNT CONTROLLER IN APPROXIMATE LOCATION SHOWN. ELECTRICAL POWER WILL BE PROVIDED WITHIN 5-FEET OF THE CONTROLLER (REFER TO ELECTRICAL PLANS). COORDINATE EXACT LOCATION OF ELECTRICAL POWER WITH NECESSARY TRADES ON SITE. PROVIDE ALL NECESSARY CPNDUIT AND CONDUCTORS BEWTEEN ELECTRICAL POWER SOURCE AND IRRIGATION CONTROLLER. MAKE ALL NECESSARY CONNECTIONS. COORDINATE EXACT PLACEMENT OF THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- PROGRAM MASTER VALVE AND FLOW SENSOR SO THAT THE MASTER VALVE SHUTS DOWN IF A HIGH FLOW OF 120 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.
- 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.
- 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.
- 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.
- IRRIGATION PIPE AND VALVES MAY BE SHOWN OUTSIDE PLANTING AREA IN HARDSCAPE FOR CLARITY ONLY. INSTALL ALL IRRIGATION COMPONENTS IN LANDSCAPED AREA.
- STUB OUT MAINLINE PIPE AND TWO WIRE CABLE FOR FUTURE USE (PHASE 2B). TERMINATE MAINLINE PIPE END WITH SOLVENT WELD SCH. 40 PVC CAP. INSTALL STANDARD RECTANGULAR VALVE BOX OVER CAPPED END AND BRAND "STUB OUT" ON VALVE BOX LID. COIL 30-INCH LENGTH OF TWO WIRE CABLE AND PLACE COIL WITHIN THE SAME VALVE BOX. COORDINATE MAINLINE AND TWO WIRE CABLE STUB OUT INSTALLATION WITH THE OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION.
- INSTALL TWO WIRE CABLE WITHIN 1-1/2-INCH CONDUIT FROM CONTROLLER TO MAINLINE PIPE. CONDUIT TO BE INSTALLED 24-INCHES BELOW GRADE. INSTALL DETECTABLE WARNING TABLE 6-INCHES BELOW GRADE OVER TOP OF CONDUIT.



Know what's below.  
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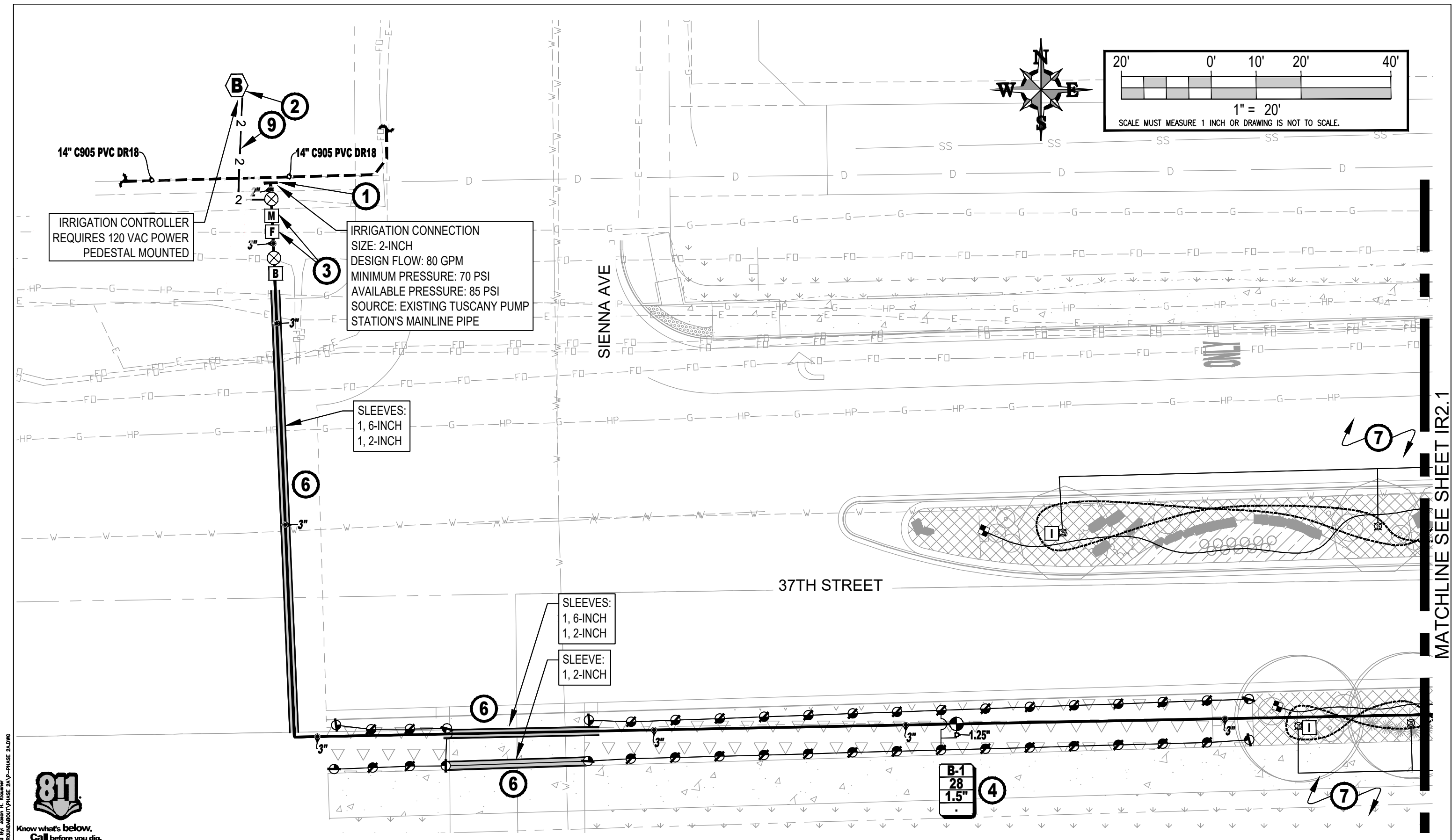
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PRIME CONSULTANT:	SUB CONSULTANT:
Consulting Group, Inc.	1000 Broadway Drive, Suite 400 Fort Collins, CO 80526-2000 970.228.8888 www.aquaengineering.com

Sheet Revisions			
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As Constructed	37TH STREET WIDENING PHASE 2A			Project No.
No Revisions:	IRRIGATION FLAG NOTES AND LEGEND			37TH STREET 2A
Revised:	Designer:	JHK	Structure	Drawing Number IR1.1
	Detailer:	JHK	Numbers	
Void:	Sheet Subset: IRRIGATION		Subset Sheets: 18 of 35	Sheet Number 100





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As Constructed	37TH STREET WIDENING PHASE 2A IRRIGATION PLAN			Project No.
No Revisions:				37TH STREET 2A
Revised:	Designer: JHK	Structure		Drawing Number IR2.0
	Detailer: JHK	Numbers		
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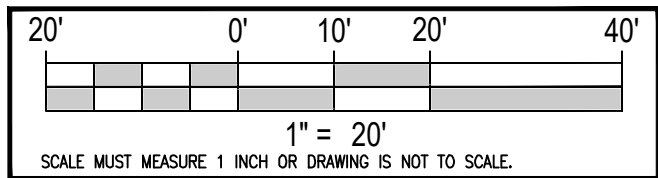
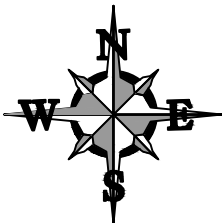
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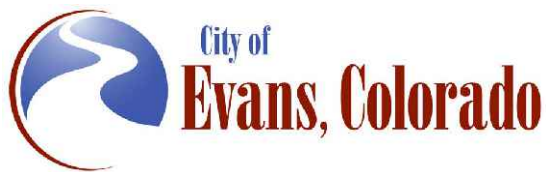


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No Revisions:	Designer: JHK	Structure Numbers	Drawing Number IR2.1	
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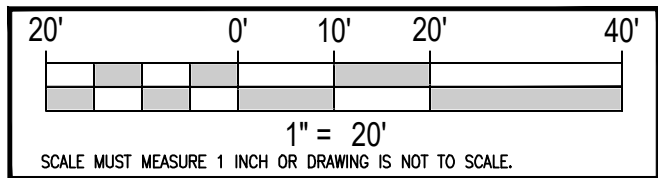
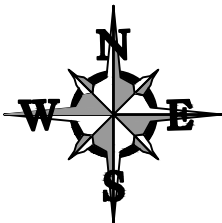
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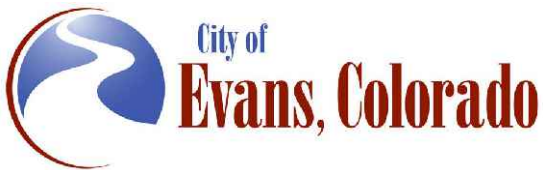
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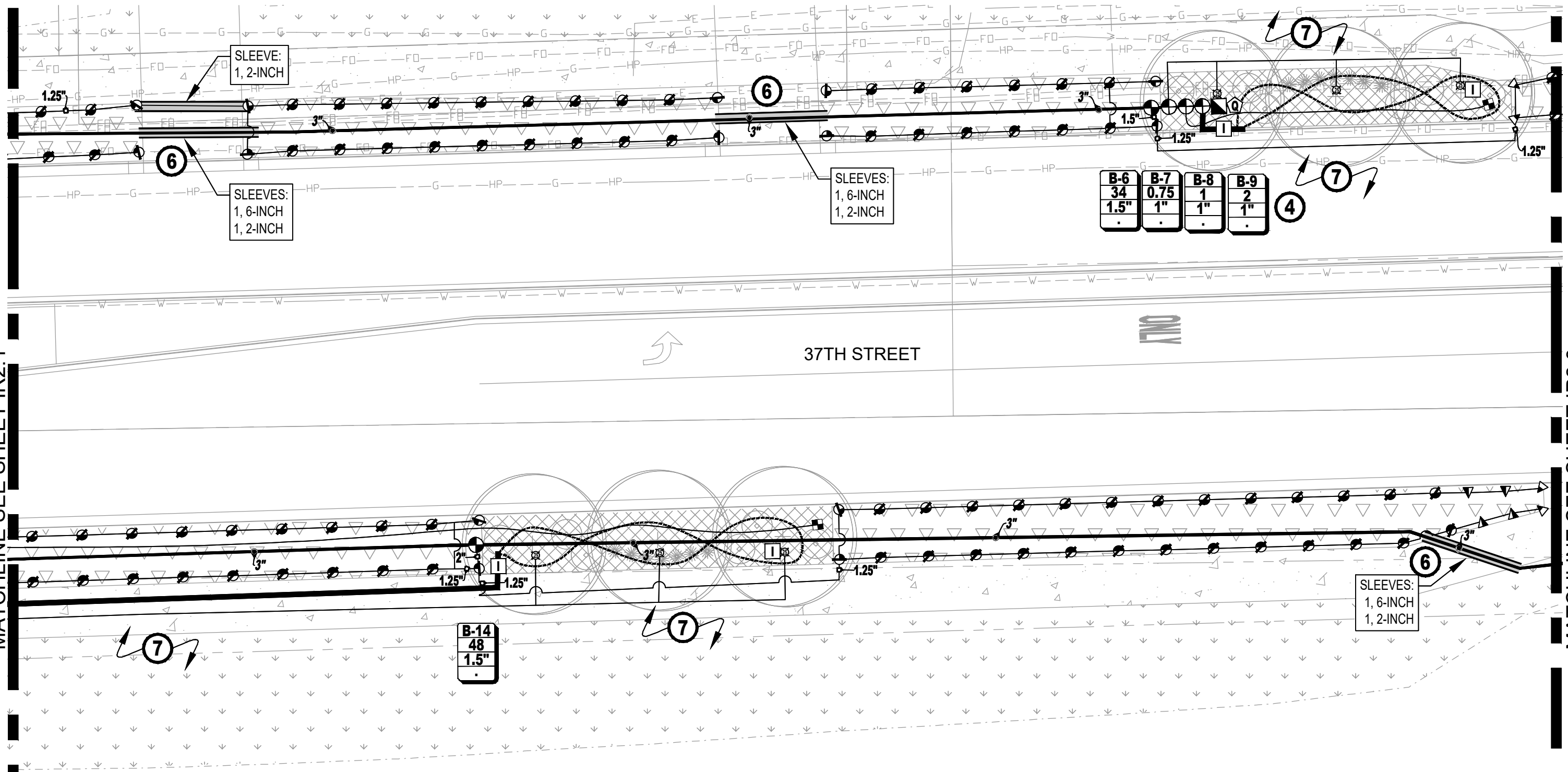
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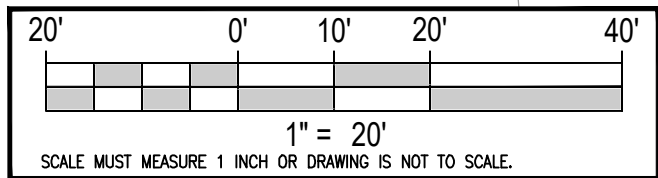
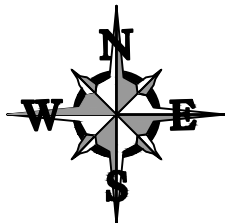
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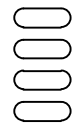
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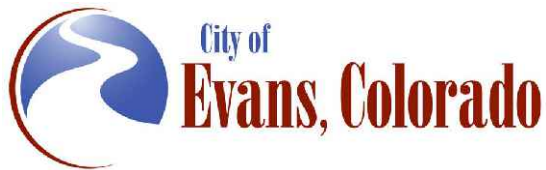
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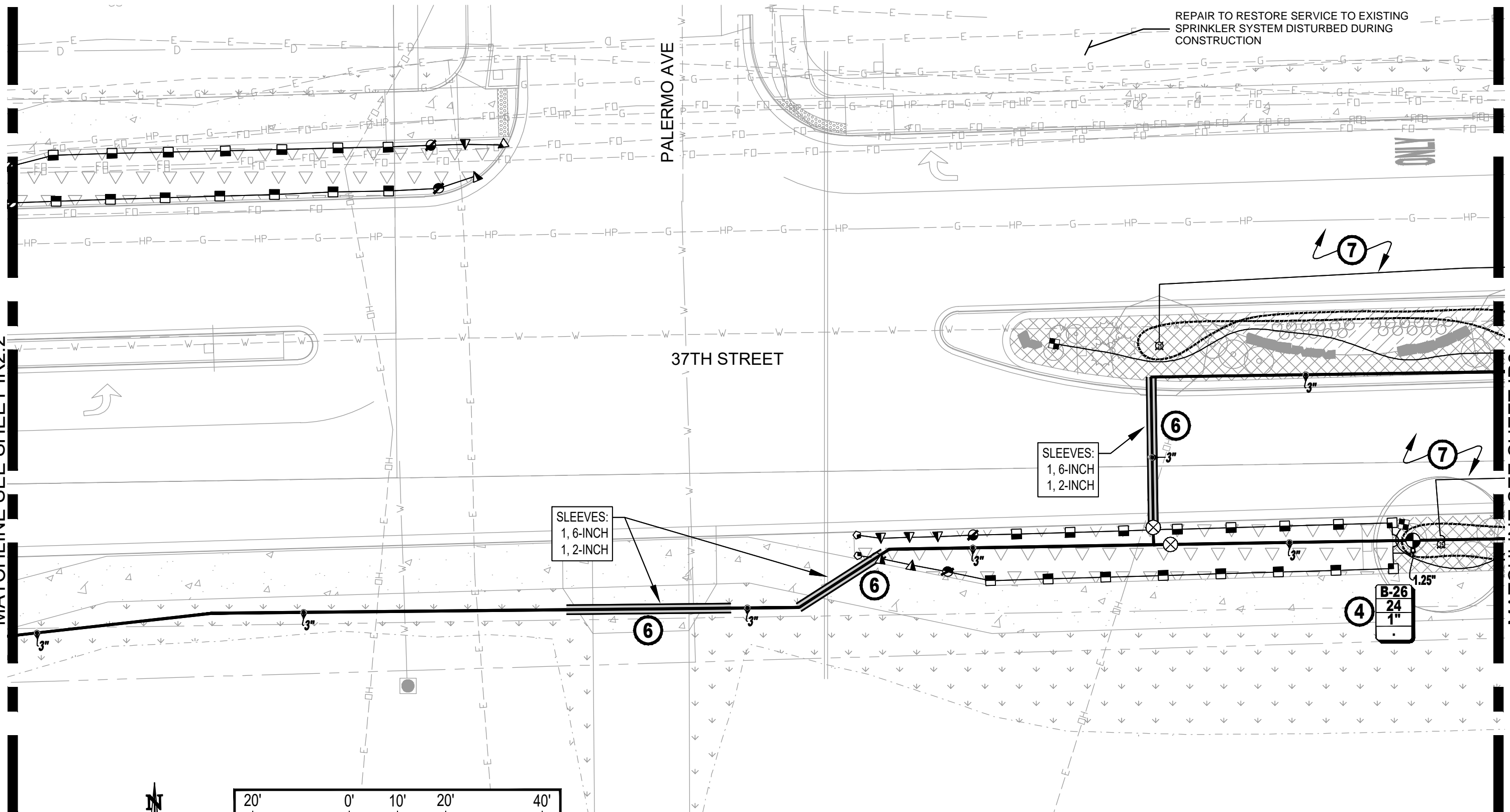


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No Revisions:	IRRIGATION PLAN			37TH STREET 2A
Revised:	Designer: JHK	Structure Numbers		Drawing Number IR2.3
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Void:	Sheet Subset: IRRIGATION	Subset Sheets: 22 of 35		Sheet Number 104

MATCHLINE SEE SHEET IR2.2



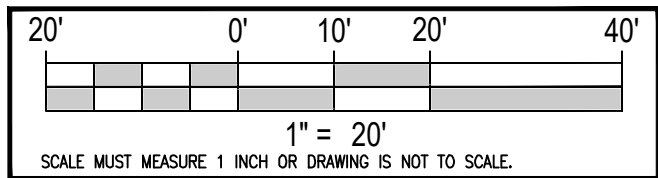
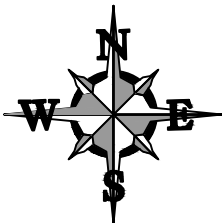
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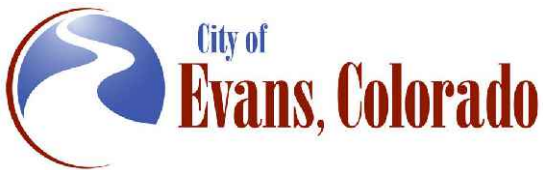
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Revised:	Designer: JHK	Structure		Drawing Number IR2.4
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MATCHLINE SEE SHEET IR2.3

MATCHLINE SEE SHEET IR2.5

FOR CONSTRUCTION 2/24/2024

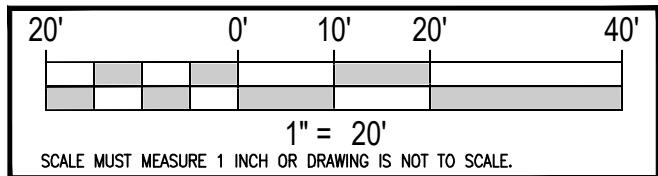
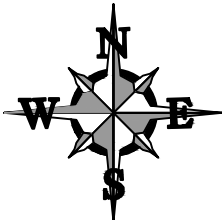




Plot Date: 01/26/2024 3:44 PM, Project: Bt - Jean H. Korman, 37TH STREET WIDENING PHASE 2A - IRRIGATION PLAN



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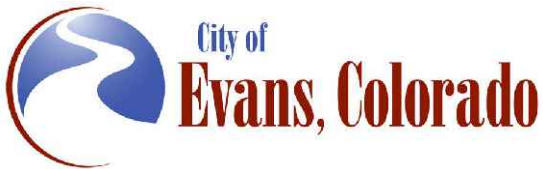
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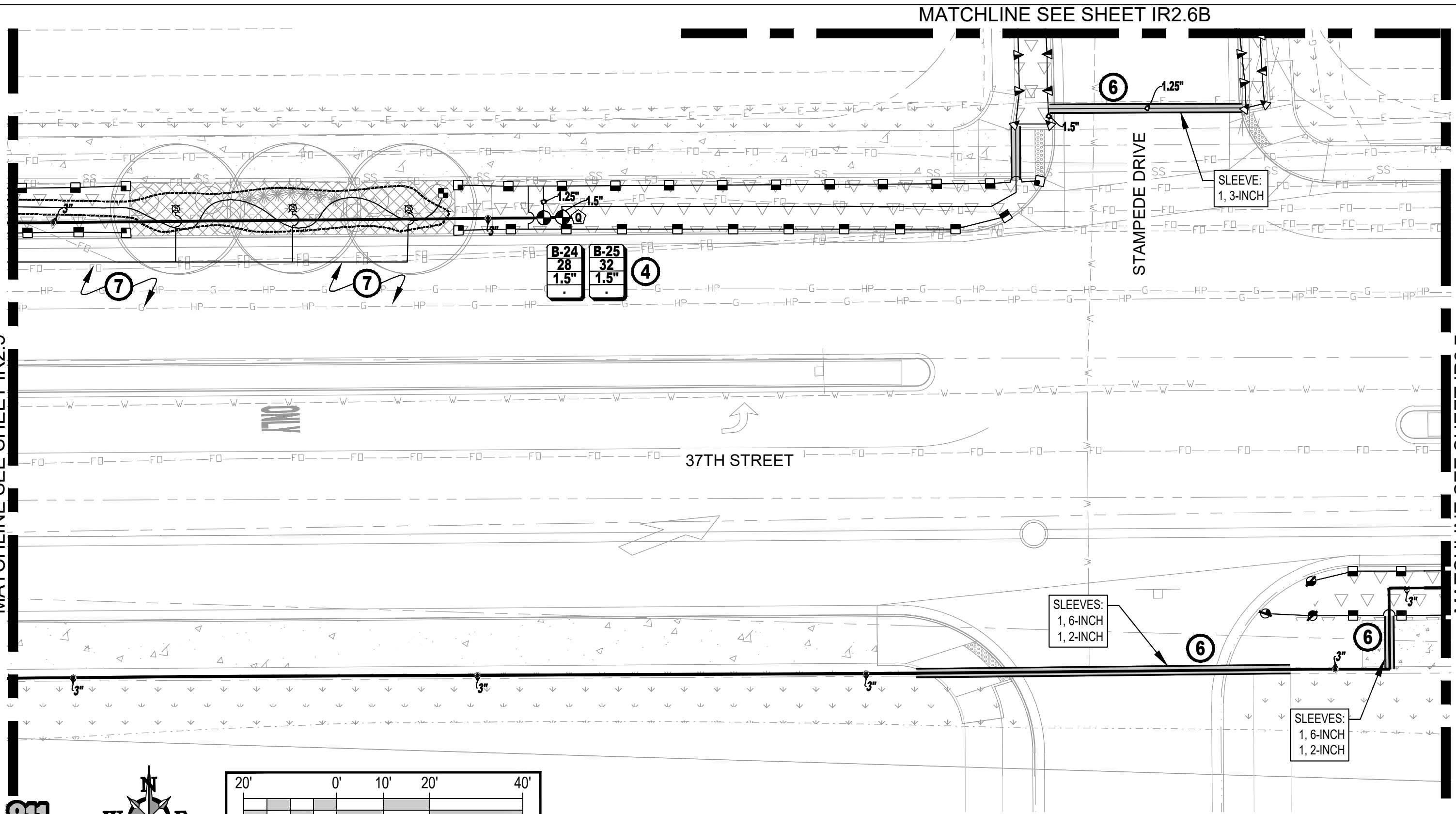


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Revised:	Designer: JHK	Structure		Drawing Number IR2.6
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Void:	Sheet Subset: IRRIGATION	Subset Sheets: 25 of 35		Sheet Number 107

MATCHLINE SEE SHEET IR2.5



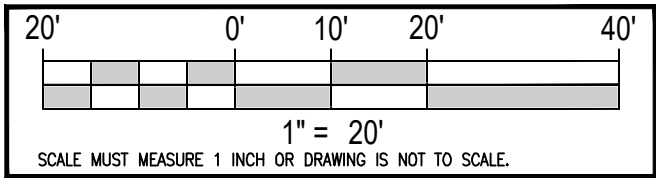
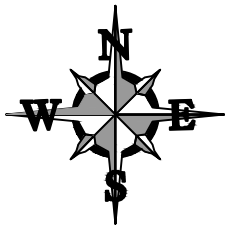
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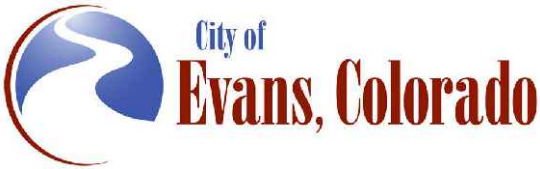
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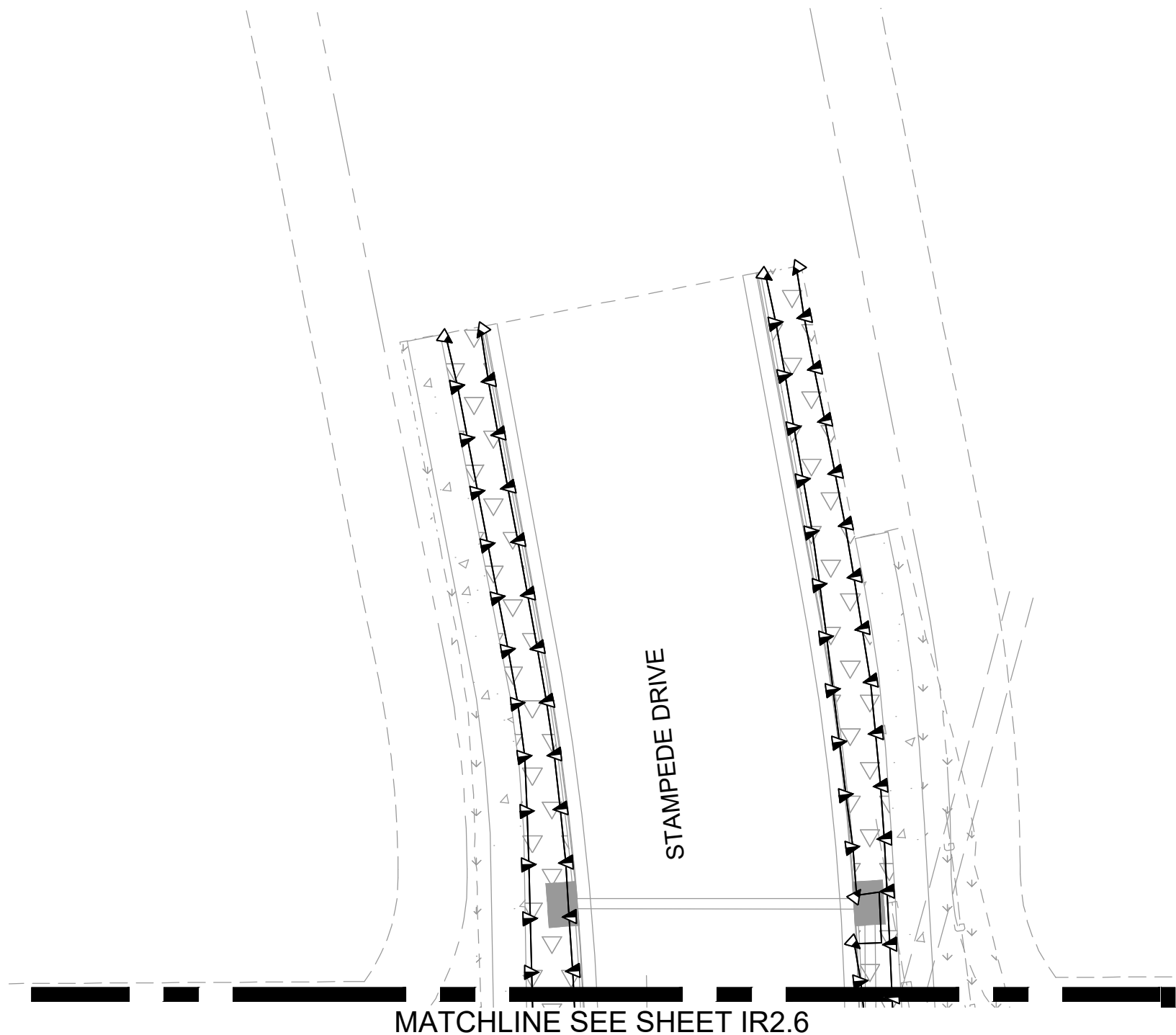
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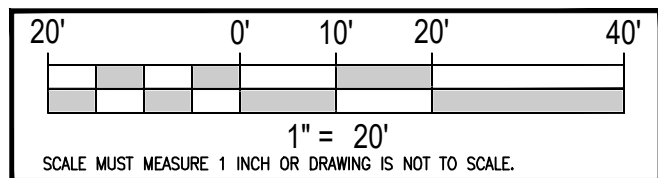
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Revised:	Designer: JHK	Structure Numbers		Drawing Number IR2.6B
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Void:	Sheet Subset: IRRIGATION	Subset Sheets: 26 of 35		Sheet Number 108



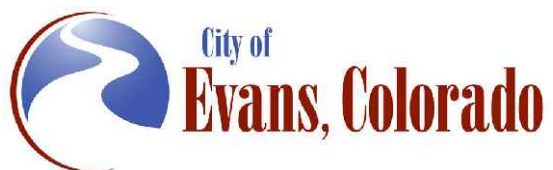
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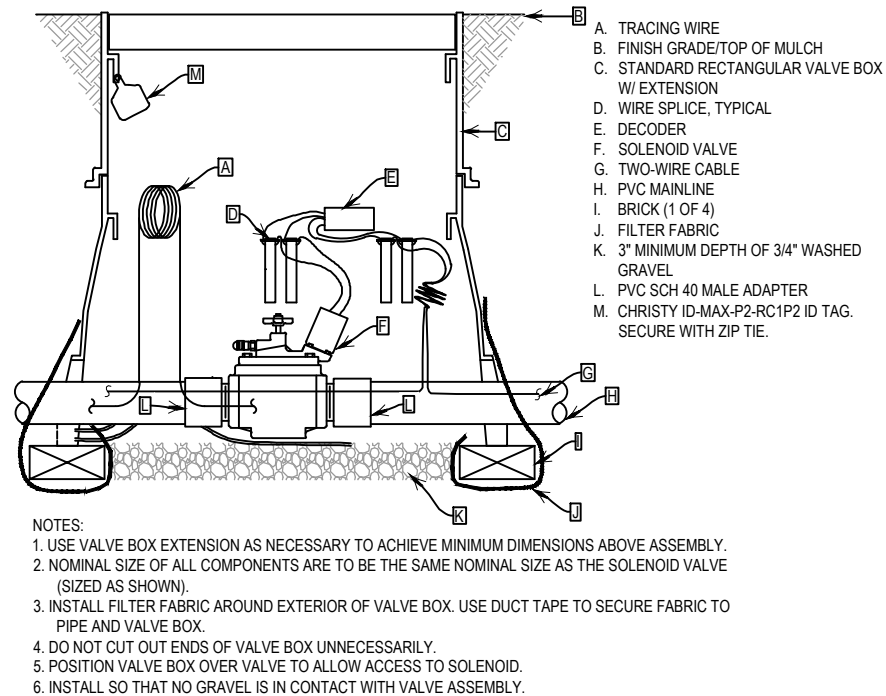
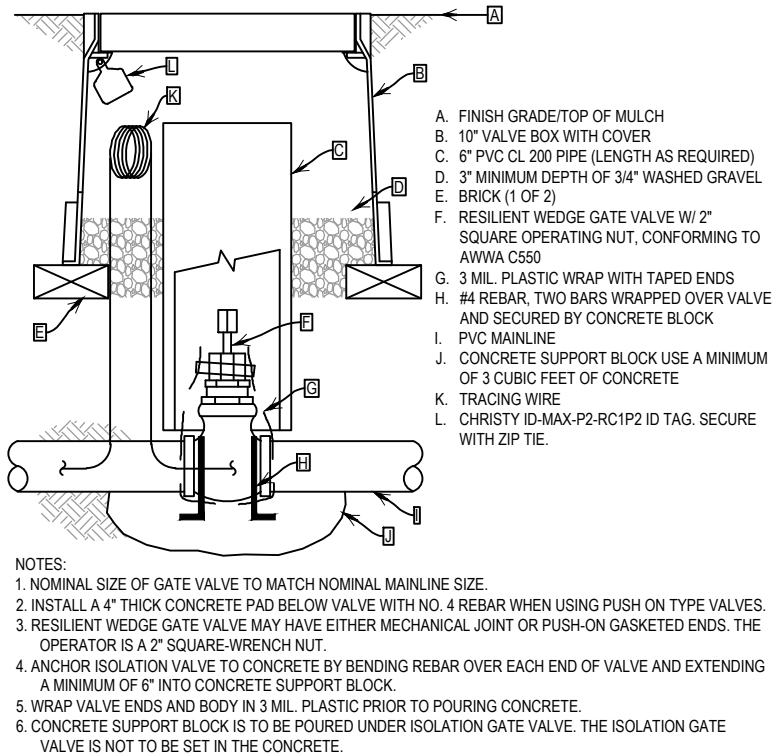
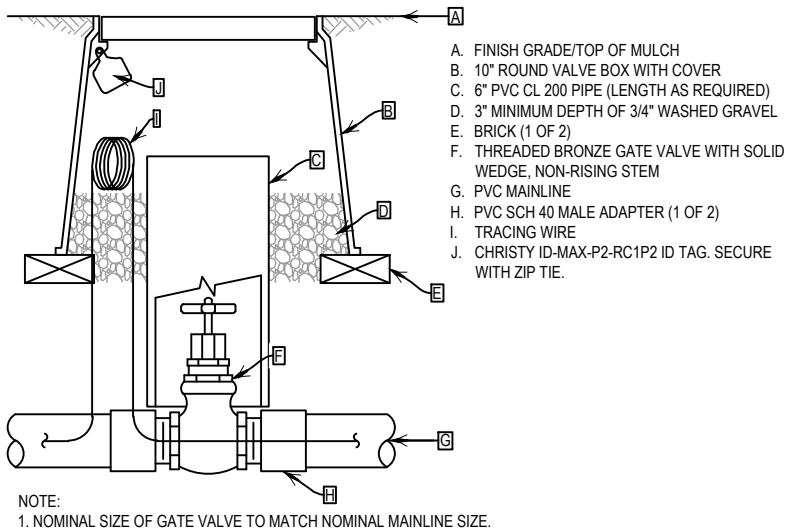


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No Revisions:				37TH STREET 2A
Revised:	Designer: JHK	Structure		Drawing Number IR2.7
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Void:	Sheet Subset: IRRIGATION	Subset	Sheets: 27 of 35	Sheet Number 109

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1 ISOLATION GATE VALVE ASSEMBLY (2.5" AND SMALLER) N.T.S.

2 ISOLATION GATE VALVE ASSEMBLY (3" AND LARGER) N.T.S.

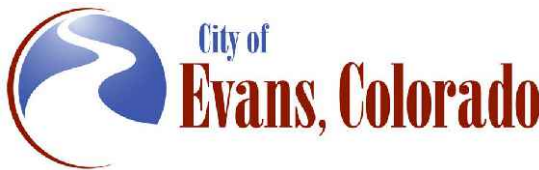
3 MASTER VALVE ASSEMBLY N.T.S.



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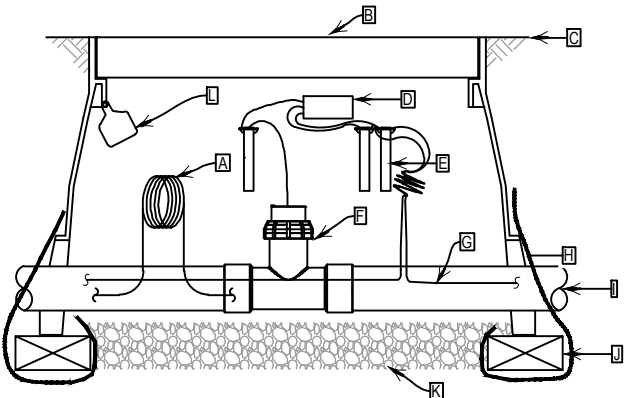
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Sheet Revisions			
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As Constructed	37TH STREET WIDENING PHASE 2A IRRIGATION DETAILS			Project No.
No Revisions:				37TH STREET 2A
Revised:	Designer: JHK	Structure Numbers		Drawing Number IR3.0
Void:	Detailer: JHK			
	Sheet Subset: IRRIGATION	Subset Sheets: 28 of 35		Sheet Number 110

Plot Date: 01/26/2024 3:44 PM, Plotted By: Jason H. Kuehner, DOB: 04/15/1985 - 571647471, EAST OF ROUNDABOUT PHASE 2A (P-PHASE 2A.DWG)



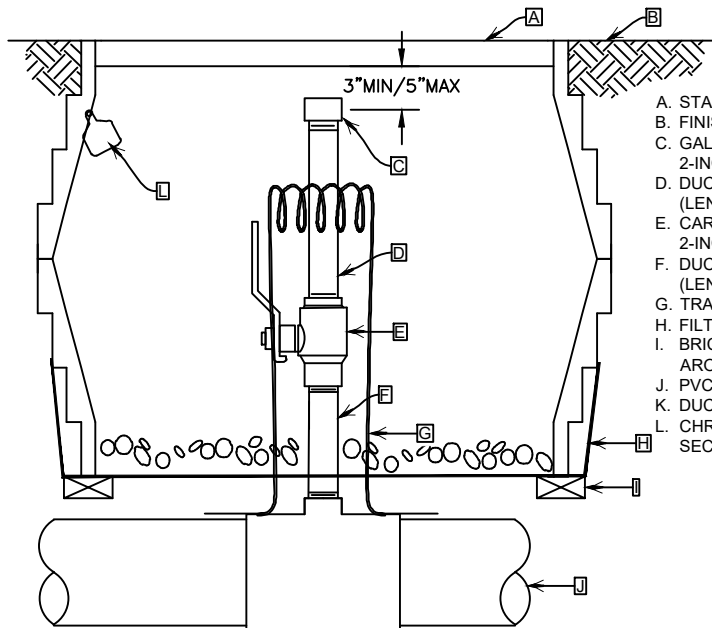
- A. TRACING WIRE  
B. 12" VALVE BOX WITH COVER  
C. FINISH GRADE/TOP OF MULCH  
D. SENSOR DECODER  
E. WIRE SLICE, TYPICAL  
F. FLOW SENSOR  
G. TWO WIRE CABLE  
H. FILTER FABRIC  
I. PVC PIPE  
J. BRICK (1 OF 4)  
K. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL  
L. CHRISTY ID-MAX-P2-RC1P2 ID TAG. SECURE WITH ZIP TIE.

- NOTES:  
1. ALLOW 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM OF STRAIGHT RUN OF PIPE TO ACHIEVE PROPER FLOW REGIME.  
2. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.  
3. DO NOT CUT OUT ENDS OF VALVE BOX UNNECESSARILY.  
4. INSTALL SO THAT GRAVEL IS ONLY IN CONTACT WITH BOTTOM OF SENSOR ASSEMBLY.

## 1 FLOW SENSOR ASSEMBLY

F

N.T.S.



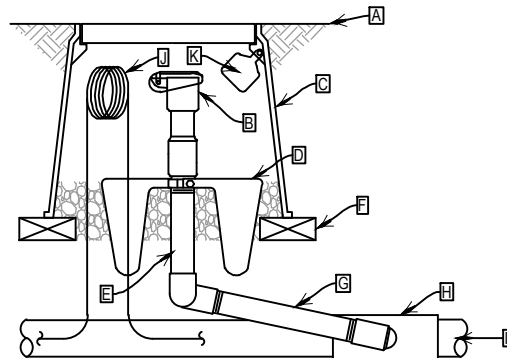
- A. STANDARD VALVE BOX WITH LID  
B. FINISH GRADE  
C. GALVANIZED THREADED CAP (SIZE 2-INCH)  
D. DUCTILE IRON NIPPLE (SIZE 2-INCH) (LENGTH AS REQUIRED)  
E. CARBON STEEL BALL VALVE (SIZE 2-INCH)  
F. DUCTILE IRON NIPPLE (SIZE 2-INCH) (LENGTH AS REQUIRED)  
G. TRACING WIRE  
H. FILTER FABRIC  
I. BRICKS (CONTINUOUS END TO END AROUND BOTTOM OF VALVE BOX)  
J. PVC MAINLINE PIPE  
K. DUCTILE IRON SERVICE TEE  
L. CHRISTY ID-MAX-P2-RC1P2 ID TAG. SECURE WITH ZIP TIE.

- NOTES:  
1. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.  
2. BRAND VALVE BOX LID PER SPECIFICATIONS.

## 2 BLOW OUT ASSEMBLY

B

N.T.S.



- 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  
K. CHRISTY ID-MAX-P2-RC1P2 ID TAG. SECURE WITH ZIP TIE.

- 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.

## 3 QUICK COUPLING VALVE ASSEMBLY

K

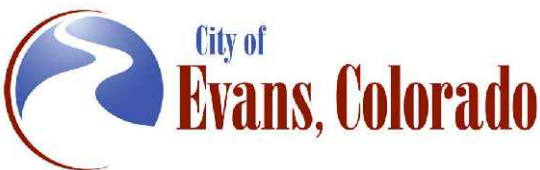
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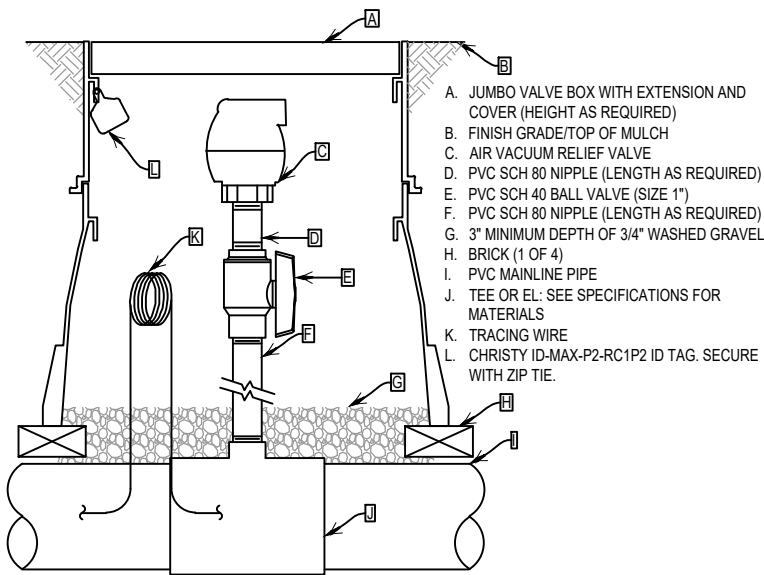
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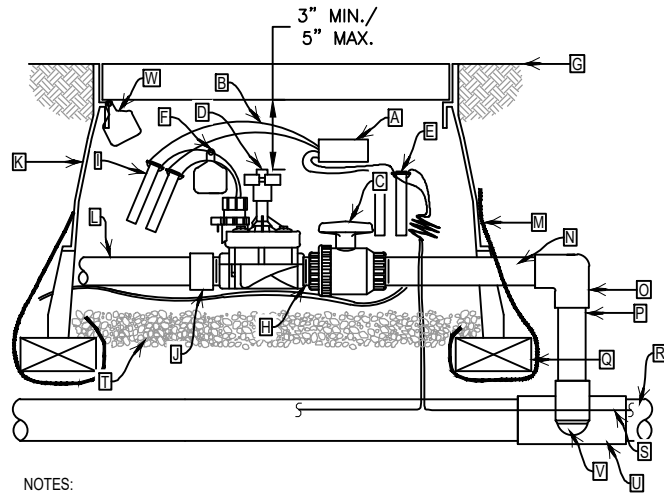
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No Revisions:				37TH STREET 2A
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Void:	Detailer: JHK			
	Sheet Subset: IRRIGATION	Subset Sheets: 29 of 35		Sheet Number 111

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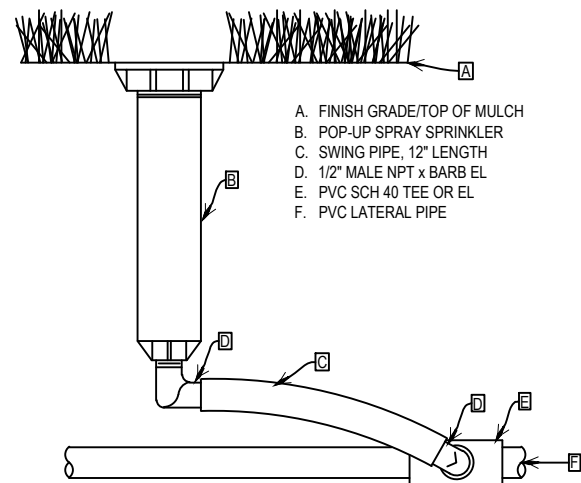
- NOTES:
1. OPEN BALL VALVE IN ASSEMBLY 1/4 TURN UNTIL IRRIGATION SYSTEM IS FULLY CHARGED WITH WATER.
  2. CLOSE VALVE DURING WINTERIZATION AND OPEN 1/2 TURN AFTER WINTERIZATION OF SYSTEM TO PROTECT VALVE DURING FREEZING WEATHER.
  3. REPLACE PVC BALL VALVE WITH BRASS BALL VALVE IN THE EVENT AN AIR VACUUM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

1 AIR VACUUM RELIEF VALVE ASSEMBLY



- 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



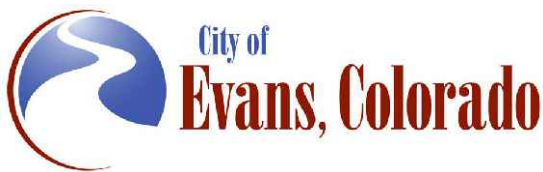
3 POP-UP SPRAY SPRINKLER ASSEMBLY



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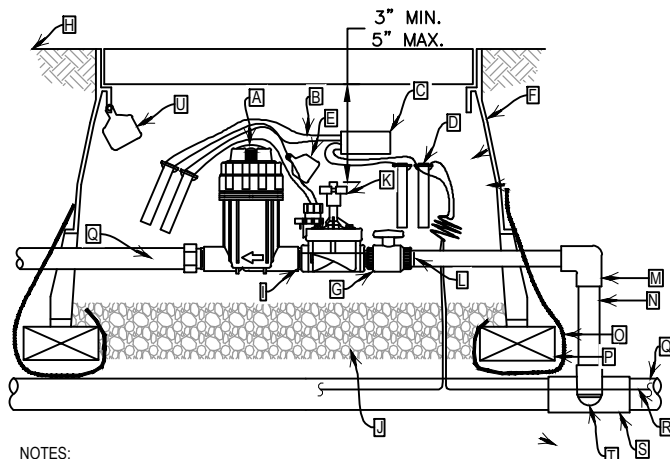


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Void:	Detailer: JHK			
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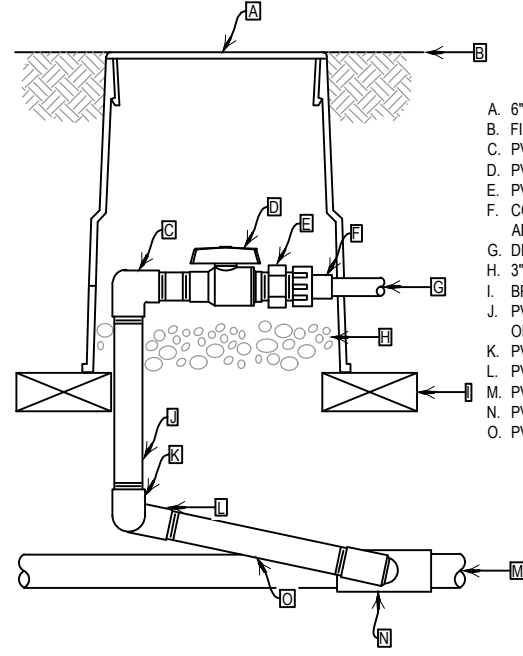
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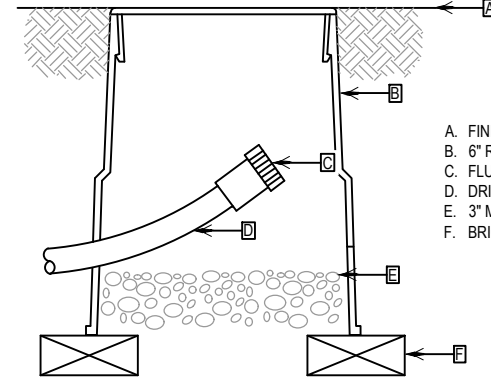


- NOTES:
- USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
  - NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
  - INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE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

- 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.



- 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.

1 DRIP REMOTE CONTROL VALVE ASSEMBLY N.T.S.

2 ZONE CONTROL VALVE ASSEMBLY N.T.S.

3 FLUSH CAP ASSEMBLY N.T.S.



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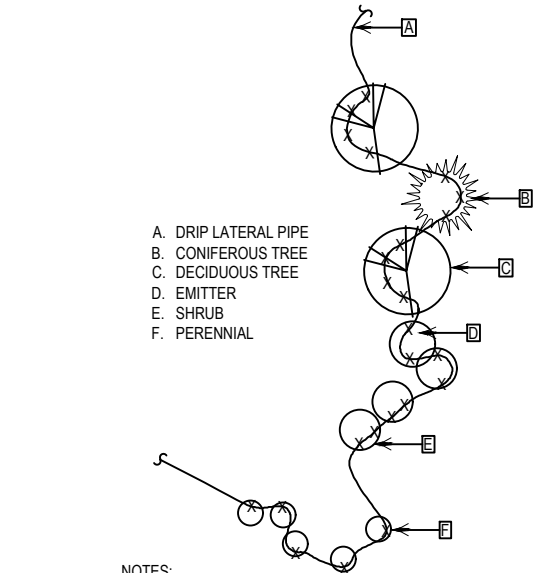
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No Revisions:				37TH STREET 2A
Revised:	Designer: JHK	Structure		Drawing Number IR3.3
	Detailer: JHK	Numbers		
Void:	Sheet Subset: IRRIGATION	Subset Sheets: 31 of 35		Sheet Number 113

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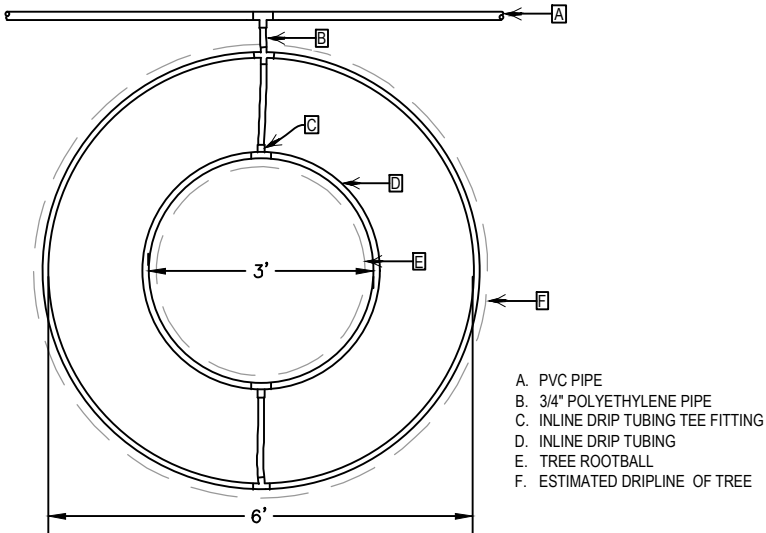
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- A. DRIP LATERAL PIPE  
B. CONIFEROUS TREE  
C. DECIDUOUS TREE  
D. EMITTER  
E. SHRUB  
F. PERENNIAL

- 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.

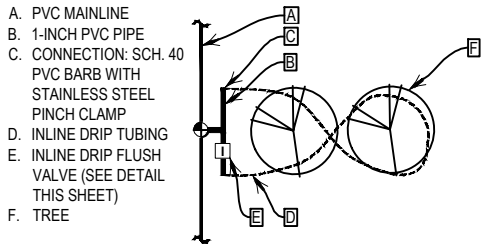
1 POINT SOURCE DRIP EMITTER PLACEMENT N.T.S.



- 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

- 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.

2 INLINE DRIP RING ASSEMBLY N.T.S.



- A. PVC MAINLINE  
B. 1-INCH PVC PIPE  
C. CONNECTION: SCH. 40 PVC BARB WITH STAINLESS STEEL PINCH CLAMP  
D. INLINE DRIP TUBING  
E. INLINE DRIP FLUSH VALVE (SEE DETAIL THIS SHEET)  
F. TREE

- NOTES:  
1. 1-INCH PVC PIPE TO BE 12-INCHES BELOW GRADE.  
2. INLINE DRIP TUBING TO BE 4-INCHES BELOW GRADE.

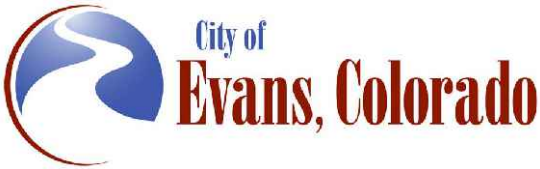
3 INLINE DRIP TO TREES LAYOUT N.T.S.



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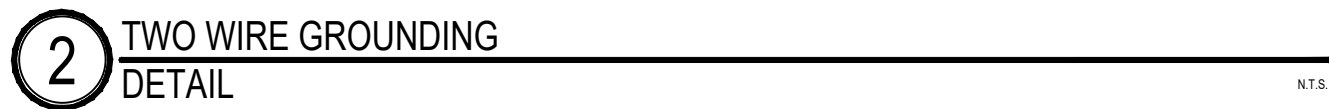


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No Revisions:				37TH STREET 2A
Revised:	Designer: JHK	Structure Numbers		Drawing Number IR3.4
Void:	Detailer: JHK	Sheet Subset: IRRIGATION	Subset Sheets: 32 of 35	Sheet Number 114

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- 
- A technical drawing of a mechanical device, possibly a pump or motor assembly, with various components labeled with letters A through J. The device features a central cylindrical component (A) with a handle (B) and a base (C). A long, thin rod (D) extends from the handle area towards the right. A small, rectangular component (E) is mounted on the rod. A larger, cylindrical component (F) is positioned below the handle. A small, rectangular component (G) is located near the base of the device. A small, rectangular component (H) is located near the base of the device. A small, rectangular component (I) is located near the base of the device. A small, rectangular component (J) is located near the base of the device. The device is shown in a cross-sectional view, revealing internal components and the flow path of the fluid being pumped.

1 INLINE DRIP FLUSH VALVE ASSEMBLY



## 2 TWO WIRE GROUNDING DETAIL



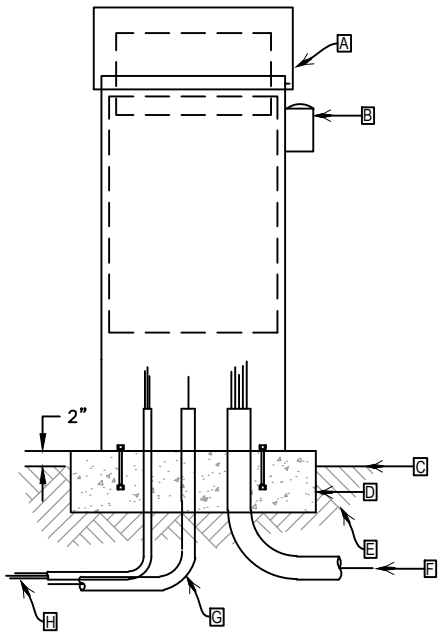
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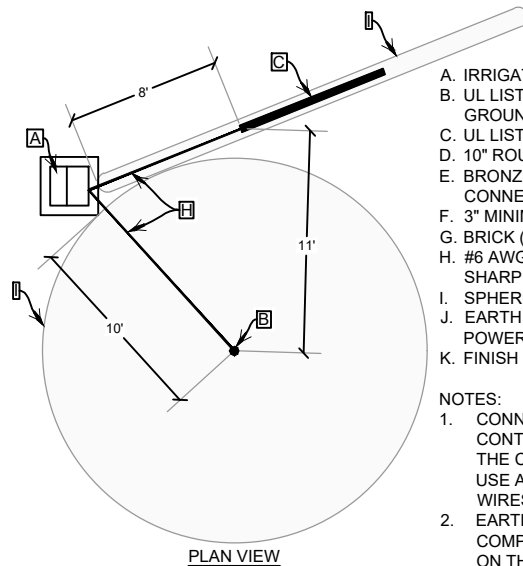
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Revised:	Designer: JHK	Structure		Drawing Number IR3.5
	Detailer: JHK	Numbers		
Void:	Sheet Subset: IRRIGATION	Subset Sheets: 33 of 35		Sheet Number 115



- 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

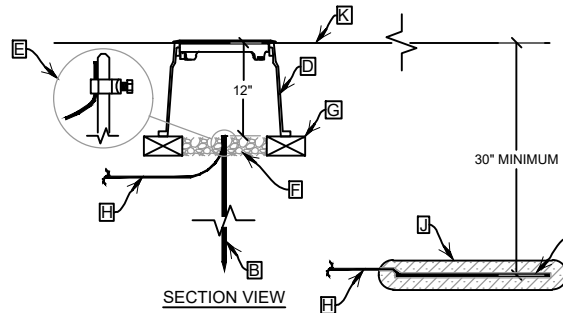


1 IRRIGATION CONTROLLER ASSEMBLY N.T.S.

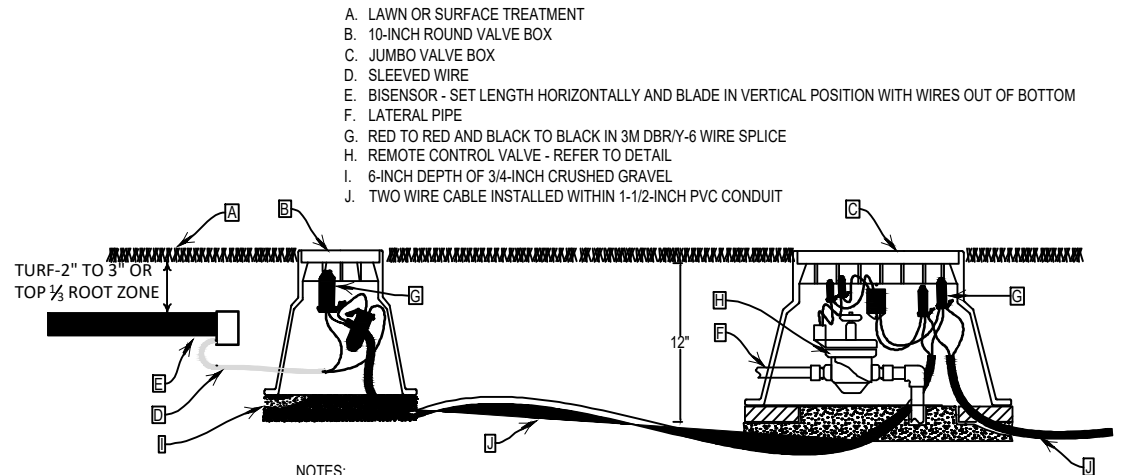


- A. IRRIGATION CONTROLLER ASSEMBLY  
B. UL LISTED 5/8" X 10' COPPER-CLAD  
GROUNDING ROD  
C. UL LISTED 4" X 8' COPPER GROUNDING PLATE  
D. 10" ROUND VALVE BOX WITH COVER  
E. BRONZE GROUND ROD CLAMP OR CADWELD  
CONNECTION: PAIGE ELECTRIC  
F. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL  
G. BRICK (1 OF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



2 CONTROLLER GROUNDING DETAIL N.T.S.



- NOTES:  
1. INSTALL SOIL MOISTURE SENSOR PER BASELINE GUIDELINES.  
2. COORDINATE EXACT LOCATION OF SOIL MOISTURE SENSOR WITH OWNER'S REPRESENTATIVE.

3 SOIL MOISTURE SENSOR DETAIL N.T.S.



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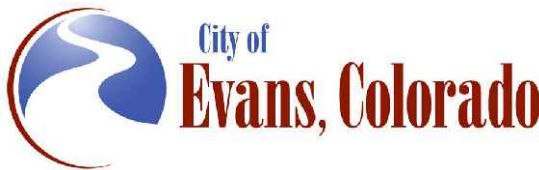
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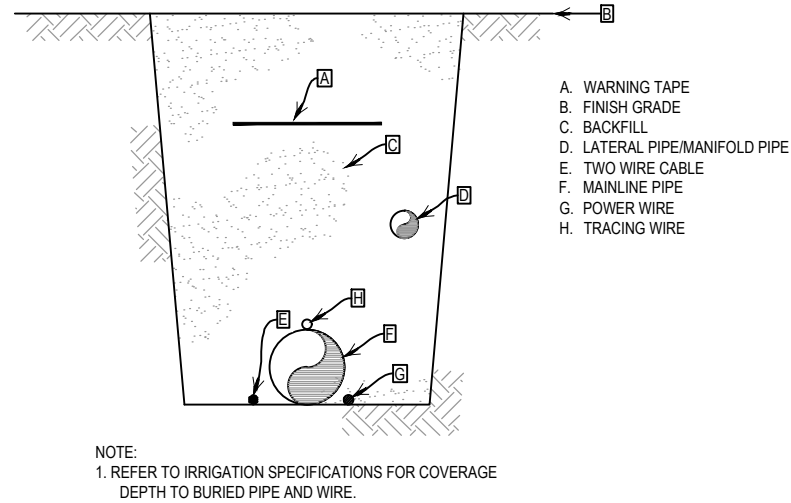
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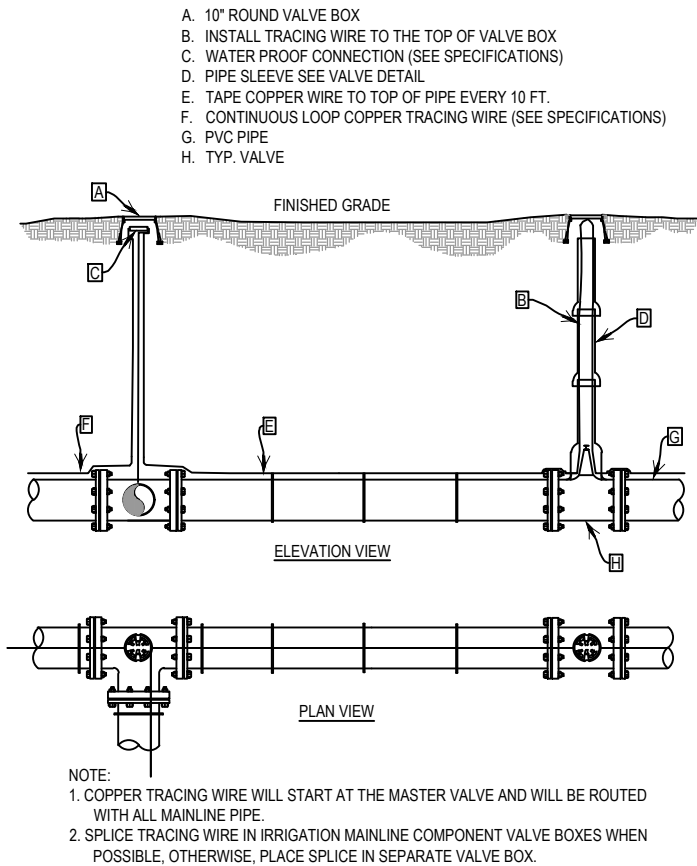
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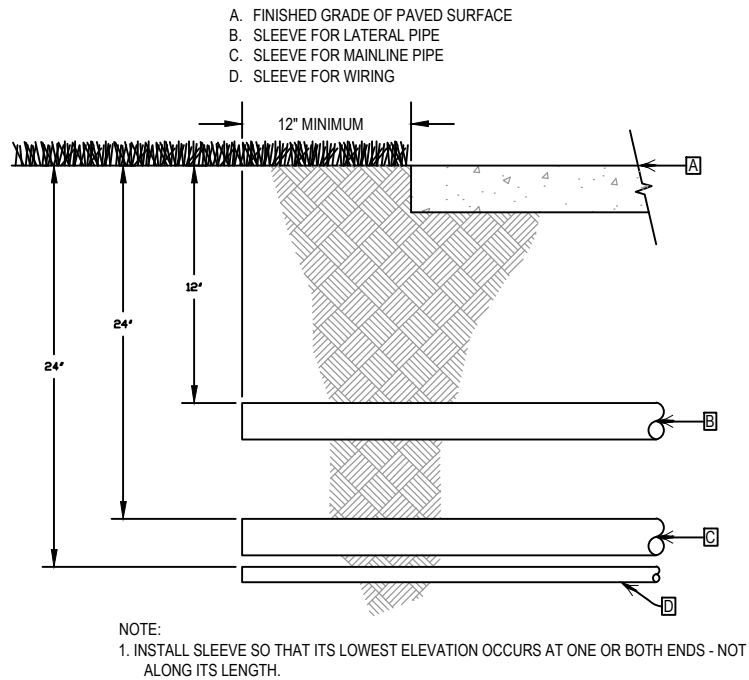
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No Revisions:	Designer: JHK	Structure Numbers		Drawing Number IR3.7	
Revised:	Detailer: JHK			Sheet Number 117	
Void:	Sheet Subset: IRRIGATION	Subset Sheets: 35 of 35			



1 TRENCH  
DETAIL N.T.S.



2 TRACING WIRE  
DETAIL N.T.S.



3 SLEEVE  
DETAIL N.T.S.

37TH STREET CONSTRUCTION PHASING

TABULATION OF TEMPORARY TRAFFIC CONTROL SIGNING			
SIGN	DESCRIPTION	DIMENSION	PANEL SIZE
			A
W20-1	ROAD WORK AHEAD	36" X 36"	6
G20-2	END ROAD WORK	36" X 18"	2
R2-1	SPEED LIMIT (30 MPH)	24" X 30"	6
R2-6aP	FINES DOUBLE (PLAQUE)	24" X 18"	6
R2-10	BEGIN FINES DOUBLE IN WORK ZONE	24" X 30"	2
R2-11	END FINES DOUBLE IN WORK ZONE	24" x 30"	2
W20-5L	LEFT LANE CLOSED	36" X 36"	1
W20-5R	RIGHT LANE CLOSED	36" X 36"	1
W20-7	FLAGGER (SYMBOLE)	36" X 36"	4
W4-2R	RIGHT LANE MERGE	36" X 36"	2
W4-2L	LEFT LANE MERGE	36" X 36"	2
G20-10	XYZ CONSTRUCTION THANKS YOU	24" X 30"	2
R9-9	SIDEWALK CLOSED	24" X 12"	4
TOTALS			40

TABULATION OF TRAFFIC CONTROL DEVICES			
ITEM	DESCRIPTION	UNIT	QUANTITY
630-00000	FLAGGING	HOURL	1000
630-00007	TRAFFIC CONTROL INSPECTION	DAY	36
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	90
630-80337	BARRICADE (TYPE 3M-C) (TEMPORARY)	EACH	6
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	40
630-80350	VERTICAL PANEL	EACH	50
630-80360	DRUM CHANNELIZING DEVICE	EACH	200
630-80380	TRAFFIC CONE	EACH	100

CONSTRUCTION PHASING GENERAL NOTES:

The Contractor shall prepare and submit a Traffic Control Plan (TCP) prior to starting. The TCP shall be submitted to the City of Evans’ Project Engineer for review and approval no less than five business days prior to starting construction.

The TCP shall conform to the requirements of Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition, and the Colorado Department of Transportation M & S Standard Plans, 2019 (S-630-1 and S-630-2).

Project requirements include:

1. All construction work that will be in traffic lanes or affect the flow of traffic shall be completed between the hours of 9:00 AM and 4:00 PM Monday through Friday. Construction work that will not affect traffic shall be completed between the hours of 7:00 AM and 7:00 PM.
2. There shall be no work performed on weekends or holidays except by approval of the City of Evans with a minimum of 24 hours notice.
3. It is the Contractor’s responsibility to provide a safe traveled way for vehicular traffic traveling through the construction zone and within the clear zone of the excavated area.
4. Unless otherwise approved by the Engineer, the Contractor’s equipment shall follow normal and legal traffic movements. The Contractor’s ingress and egress of the work area shall be accomplished with as little disruption to traffic as possible. Traffic control devices shall be removed by picking up the devices in a reverse sequence to that used for installation. This may require moving backwards through the work zone, but is limited to within the lane or shoulder closures. When located behind or at other locations shown on approved traffic control plans, equipment may operate in a direction opposite to adjacent traffic.
5. The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless approved by the Engineer.
6. All travel lanes shall be a minimum of 11’ wide.
7. The Contractor shall maintain traffic flow and allow access to homes, businesses, and side streets at all times. The Contractor shall provide temporary ramping and use flaggers when necessary.
8. The Contractor should coordinate any temporary closures to homes or businesses with the owners.
9. Signal construction will need to be coordinated in each phase.

The construction sequence described below and shown on the plans is a potential sequence available for the Contractor’s use. It is a general concept 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.

PHASE 1

1. Use existing pavement, and pavement markings for Phase 1 traffic.
2. All temporary construction signs and traffic control devices shall be placed according to an approved MHT before beginning construction.
3. Construct proposed Phase 1 utility improvements. See utility plans.
4. Construct proposed hydraulic improvements.
5. Construct proposed eastbound lanes, and apply temporary pavement markings for Phase 2 construction.
6. Construct curb and gutter on south side of roadway.
7. Construct parkway and sidewalks, including ADA ramps on south side of roadway.

PHASE 2

1. Shift traffic to new pavement as shown in Phase 2 drawings.
2. All temporary construction signs and traffic control devices shall be placed according to an approved MHT before beginning construction.
3. Construct proposed Phase 2 utility improvements under Phase 2 roadway. See utility plans.
4. Construct proposed westbound lanes, and apply permanent pavement markings for final traffic configuration.
5. Construct median island and turn lanes, see median detail.
6. Construct curb and gutter on north side of roadway.
7. Construct parkway and sidewalks, including ADA ramps on north side of roadway.



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Print Date: 2/6/2024

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Vert. Scale: N/A

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Sheet Revisions		
Date	Comments	Initials

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No Revisions:

Revised:

Void:

37TH STREET WIDENING PHASE 2A CONSTRUCTION PHASING TABULATIONS AND GENERAL NOTES

Designer: B. DANE

Structure Numbers

Detailer: B. DANE

Sheet Subset: PHASING

Subset Sheets: 1 of 4

Project No.

37TH STREET 2A

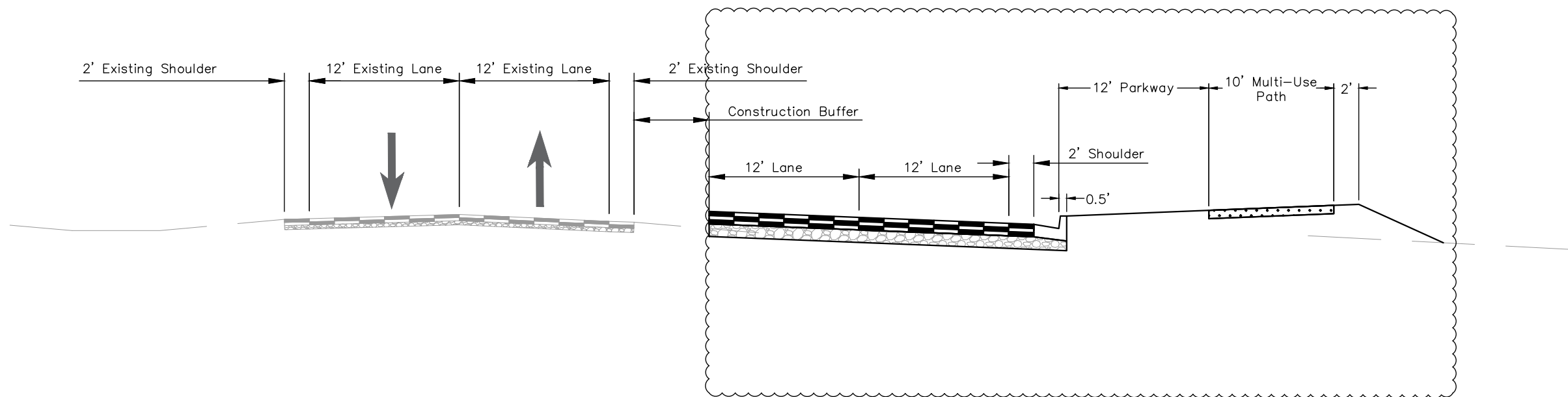
Drawing Number PH-001

Sheet Number 118

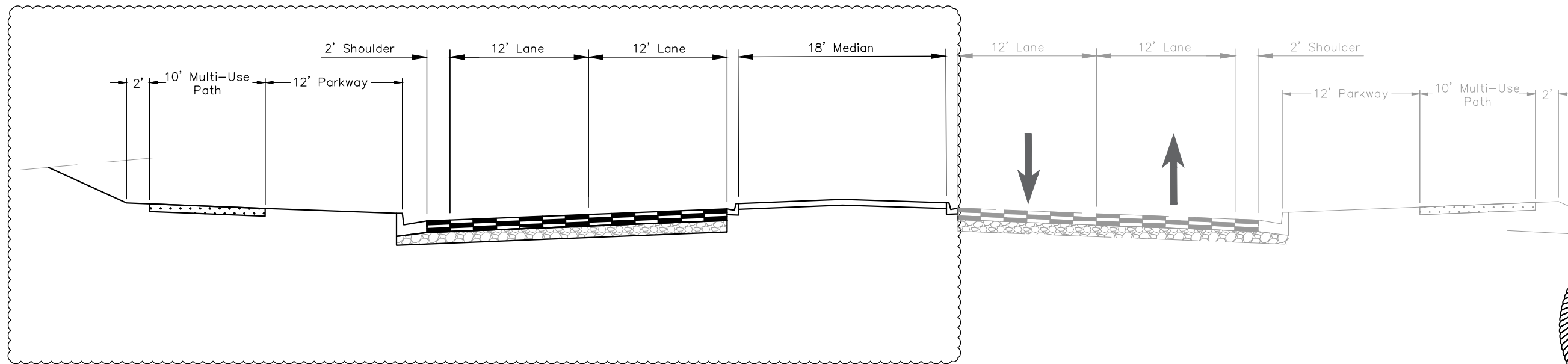
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**37th – Phase 1 Construction**

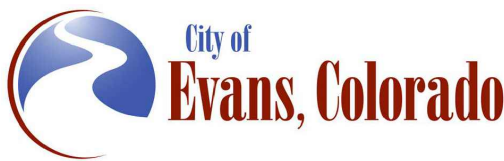


**37th – Phase 2 Construction**



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Date:	Comments	Init.



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	No Revisions:	Designer: T. Tuttle	Structure Numbers	37TH STREET 2A
Revised:		Detailer: C. Peterson		Drawing Number PH-002
Void:		Sheet Subset: PHASING	Subset Sheets: 2 of 4	Sheet Number 119

Legend:

Construction Phase 1 - [Hatched Box]

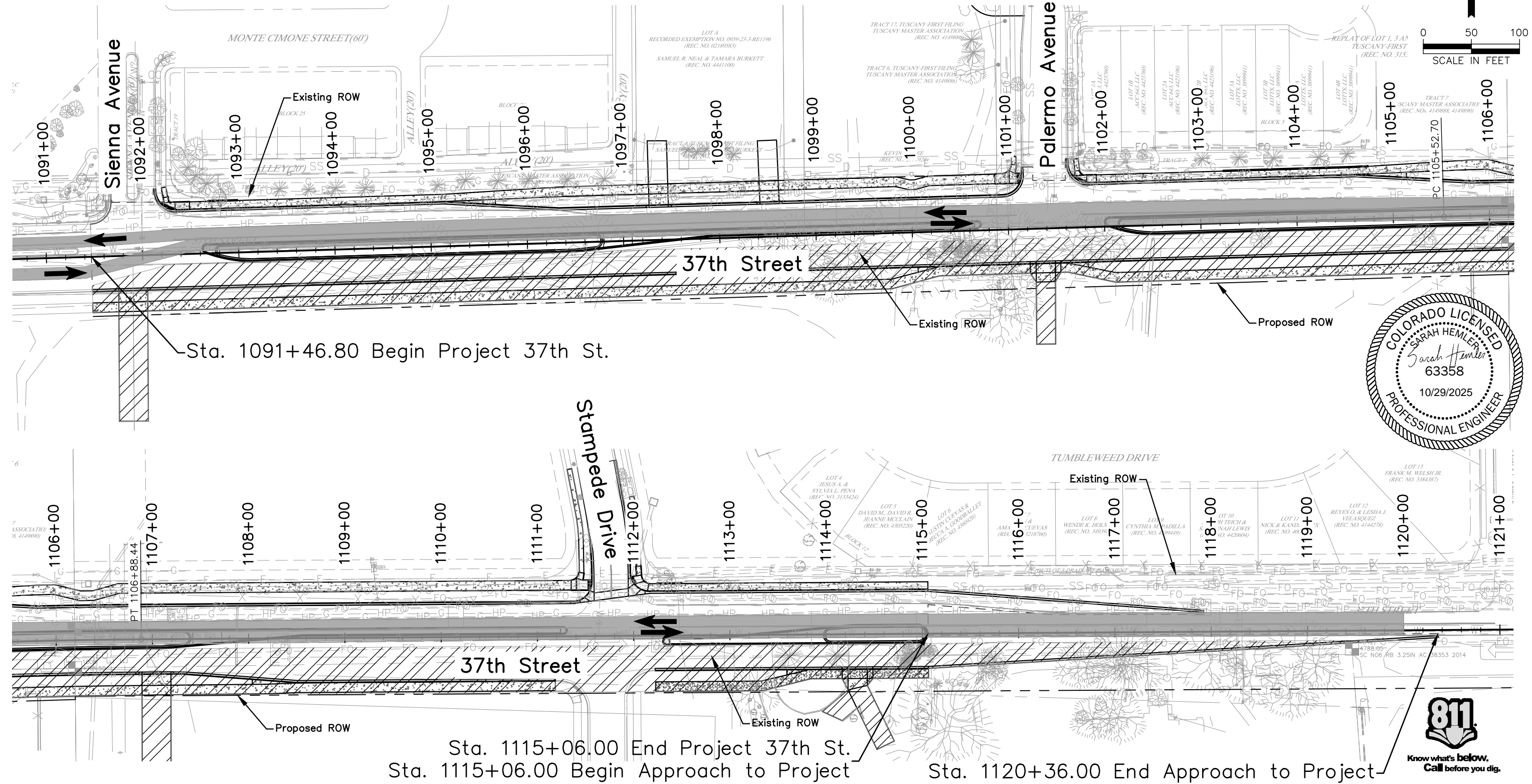
Phase 1 Traffic - [Solid Grey Box]

Traffic Direction - [Arrow]

N

0 50 100

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SARAH HEMLER

63358

10/29/2025

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File Name: PH P2A-001 CONSTRUCTION PHASING.DWG		Date	Comments	Initials		Designer: T. Tuttle	Structure Numbers	
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Vert. Scale: N/A					Revised:	Sheet Subset: PHASING	Subset Sheets: 3 of 4	Sheet Number 120
Void:								

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Legend:

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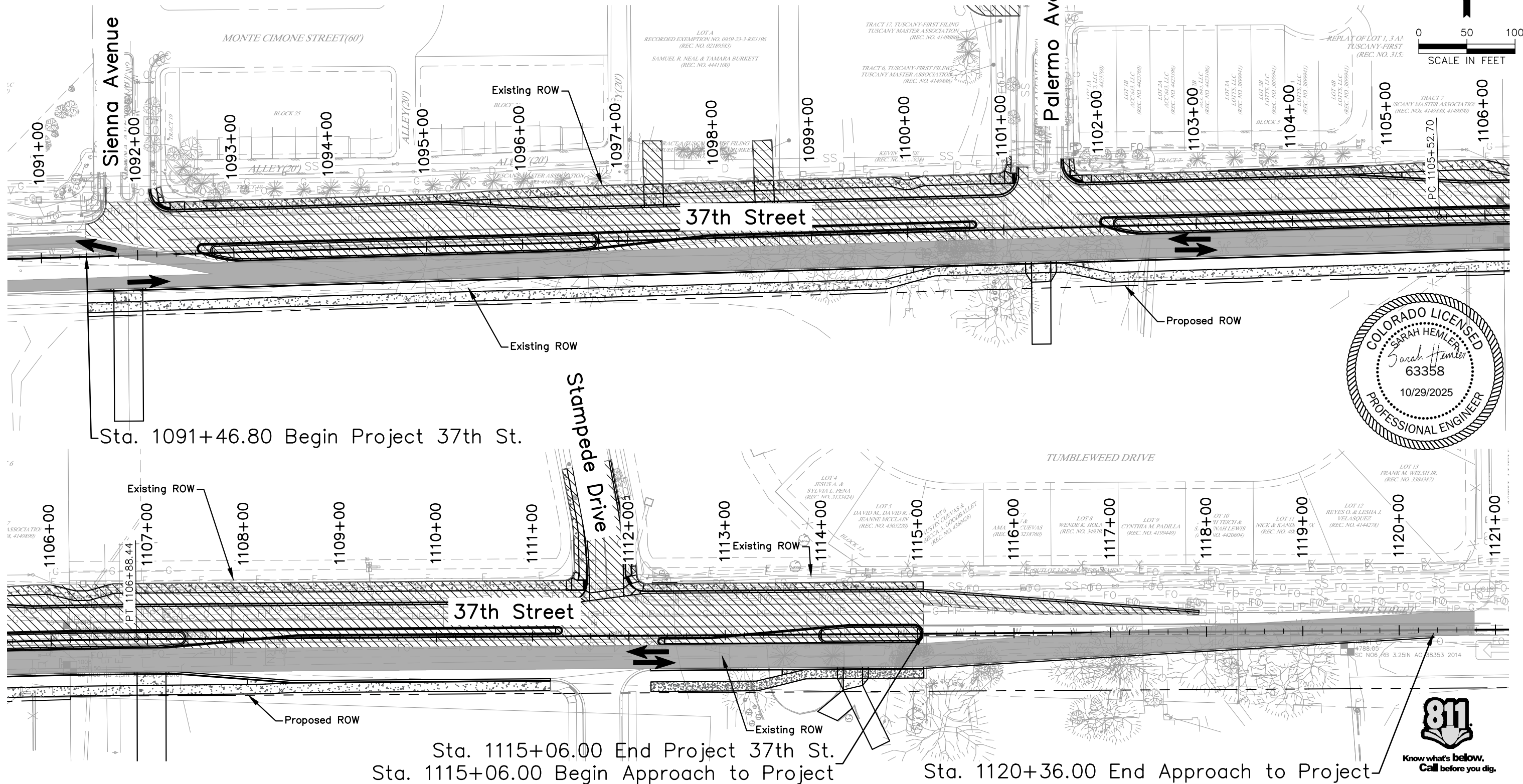
Phase 2 Traffic - [Solid Grey Box]

Traffic Direction - [Arrow]

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File Name: PH P2A-002 CONSTRUCTION PHASING.DWG

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**City of Evans, Colorado**

**FREEDOM Parkway**

As Constructed	37TH STREET WIDENING PHASE 2A CONSTRUCTION PHASING PHASE 2		Project No.
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Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number PH-004
Void:	Detailer: C. Petersen		
Sheet Subset: PHASING		Subset Sheets: 4 of 4	Sheet Number 121

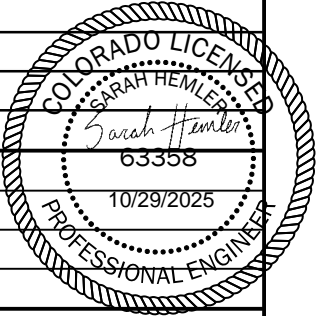
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Plot Date: 2/19/2024 3:23 PM

TABULATION OF SIGNS														
SIGN NO.	SIGN CODE	LEGEND	COLOR	EXISTING LOCATION	EXISTING POSITION	TRAVEL DIRECTION	PANEL SIZE	PROPOSED LOCATION	PROPOSED POSITION	BARRICADE	STEEL SIGN POST (1.75x1.75 INCH TUBING)	SIGN PANEL	REMOVALS	REMARKS
							INCHES			TYPE 3M-A		CLASS I	GROUND SIGN	
										EACH				
1	W4-2	Lane Ends	Yellow	1087+75	42' Right	East	36" x 36"						1	Remove from transition of 37th St. Ph 1 Project
2	R3-7R	Right Lane Must Turn Right	White			West	30" x 30"	1092+45	61' Left		10.5	6.25		
3	R4-7	Keep Right	White			East	24" x 30"	1092+95	0'		10.5	5.00		
4	R2-1	Speed Limit 35mph	White	1093+75	40' Right	East	30" x 36"	1093+45	42' Right		11.0	7.50		
5	R3-7R	Right Lane Must Turn Right	White			West	30" x 30"	1094+82	63' Left		10.5	6.25		
6	R3-7R	Right Lane Must Turn Right	White	1096+07	49' Left	West	30" x 30"						1	
7a	W2-2	3 Way Intersection Ahead	Yellow	1098+57	1' Right	East	30" x 30"						1	
7b	D3-1	Palermo Ave	Yellow	1098+57	1' Right	East	36" x 12"							Included in removal of 6a
8	R2-1	Speed Limit 35mph	White			West	30" x 36"	1100+05	42' Left		11.0	7.50		
9	R4-7	Keep Right	White			West	24" x 30"	1100+50	6' Left		10.5	5.00		
10a	R1-1	Stop	Red	1101+13	62' Left	South	36" x 36"	1101+11	61' Left		13.0	9.00		
10b	D3-1	Palermo Ave	Green	1101+13	62' Left	South	36" x 12"	1101+11	61' Left			3.00		
10c	D3-1	37th St	Green	1101+13	62' Left	South	36" x 12"	1101+11	61' Left			3.00		
11	R3-7R	Right Lane Must Turn Right	White	1101+88	45' Left	West	30" x 30"	1101+90	60' Left		10.5	6.25		
12	R4-7	Keep Right	White			East	24" x 30"	1102+30	0'		10.5	5.00		
13	R2-1	Speed Limit 35mph	White			East	30" x 36"	1102+89	42' Right		11.0	7.50		
14	R3-7R	Right Lane Must Turn Right	White	1105+37	34' Left	West	30" x 30"	1104+52	60' Left		10.5	6.25		
15	R2-1	Speed Limit 45mph	White	1107+25	26' Left	West	30" x 36"						1	
16a	W2-2	3 Way Intersection Ahead	Yellow	1108+32	12' Right	East	30" x 30"						1	
16b	D3-1	Stampede Dr	Yellow	1108+32	12' Right	East	36" x 12"							Included in removal of 15a
17	R3-7R	Right Lane Must Turn Right	White			East	30" x 30"	1108+52	58' Right		10.5	6.25		
18	W4-2	Lane Ends	Yellow			East	36" x 36"	1109+63	58' Right		11.0	9.00		
19	R2-1	Speed Limit 35mph	White			West	30" x 36"	1110+35	42' Left		11.0	7.50		
20	R3-7R	Right Lane Must Turn Right	White			East	30" x 30"	1110+80	58' Right		10.5	6.25		
21	R4-7	Keep Right	White			West	24" x 30"	1111+06	6' Left		10.5	5.00		
22a	R1-1	Stop	Red	1111+44	30' Left	South	36" x 36"	1111+52	66' Left		13.0	9.00		
22b	D3-1	Stampede Dr	Green	1111+44	30' Left	South	36" x 12"	1111+52	66' Left			3.00		
22c	D3-1	37th St	Green	1111+44	30' Left	South	36" x 12"	1111+52	66' Left			3.00		
23	W1-7	Two-Direction Large Arrow	Yellow	1111+73	8' Right	South	48" x 24"						1	
24	R2-1	Speed Limit 45mph	White	1112+28	9' Right	East	30" x 36"						1	
25	R3-7R	Right Lane Must Turn Right	White	1112+51	36' Left	West	30" x 30"	1112+54	62' Left		10.5	6.25		
26	R4-7	Keep Right	White			East	24" x 30"	1112+59	6' Right		10.5	5.00		
27	R2-1	Speed Limit 35mph	White			West	30" x 36"	1113+91	50' Right		11.0	7.50		
28	R9-9	Sidewalk Closed	Yellow			West	24" x 12"	1115+04	50' Left	1		2.00		Mount on Barricade
29	R9-9	Sidewalk Closed	Yellow			East	24" x 12"	115+04	40' Right	1		2.00		Mount on Barricade
30	R3-7R	Right Lane Must Turn Right	White	1114+70	36' Left	West	30" x 30"	1115+05	64' Left		10.5	6.25		
31a	W2-2	3 Way Intersection Ahead	Yellow	1118+41	11' Right	East	30" x 30"						1	
31b	D3-1	38th Avenue	Yellow	1118+41	11' Right	East	36" x 12"							Included in removal of 30a
TOTAL										2	228.5	155.5	8	



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Date	Comments	Initials

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37TH STREET WIDENING PHASE 2A  
SIGNING AND STRIPING TABULATION

Designer: T. Tuttle

Detailer: S. Hemler

Sheet Subset: TRAF TAB

Structure Numbers

Subset Sheets: 1 of 2

Project No.

37TH STREET 2A

Drawing Number TTAB-001

Sheet Number 122

FOR CONSTRUCTION 2/24/2024

Plot Date: 2/19/2024 3:23 PM Plotted By: Sarah Hemler  
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TABULATION OF PAVEMENT MARKINGS									
STATION			SIDE	CENTER	LANE	CHANNELIZING	PVMT MARKING		REMARKS
				YELLOW DOUBLE 4 INCH	WHITE BROKEN 4 INCH	WHITE LANE DROP 8 INCH	WORD SYMBOL	X WALK - STOP LINE	
				LF	LF	LF	SF	SF	
1091+72	-	1092+14	LT					144	
1092+20	-	1095+15	LT			295			
1092+39	-	1100+89	RT		213				
1092+39	-	1100+89	LT		213				
1092+58			LT				16.1		
1093+48			LT				22.5		
1094+44			LT				16.1		
1097+93	-	1100+83	RT			291			
1098+29			RT				16.1		
1099+29			RT				22.5		
1100+25			RT				16.1		
1101+21	-	1101+63	LT					144	
1101+70	-	1104+60	LT			291			
1101+86	-	1111+26	RT		235				
1101+86	-	1111+26	LT		235				
1102+04			LT				16.1		
1103+00			LT				22.5		
1103+98			LT				16.1		
1108+54	-	1111+22	RT			268			
1108+54	-	1111+42	RT			289			
1108+97			RT				32.2		Includes left and right turn arrows
1109+90			RT				22.5		
1110+75			RT				58.0		
1110+88			RT				32.2		Includes left and right turn arrows
1111+62	-	1111+94	LT					112	
1112+03	-	1115+04	LT			302			
1112+19	-	1112+84	LT			66			
1112+27	-	1120+77	RT		213				
1112+27	-	1120+77	LT		213				
1112+46			LT				16.1		
1112+78			LT				16.1		
1113+53			LT				22.5		
1114+61			LT				16.1		
1114+96			RT				58.0		
1114+95		1120+35	LT & RT	1080					
TOTAL				1,080	1,320	1,802	438	400	

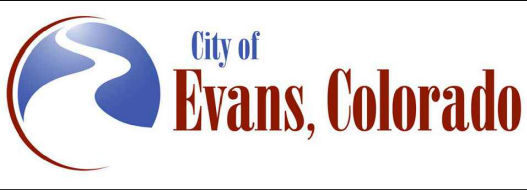
Note:  
All cross walks, stop bars, and arrows shall be pre-formed thermoplastic.  
Stationing is approximate, locations are to be field verified by contractor prior to final placement.

SUMMARY OF PAVEMENT MARKING QUANTITIES				
COLOR	MODIFIED EPOXY PAVEMENT MARKING		PREFORMED THERMO PAVEMENT MARKING	
			X-WALK	WORD SYMBOL
	MIN GAL	MAX GAL	SF	SF
WHITE	18	19	400	438
YELLOW	8	8		
TOTALS	26	28	400	438



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	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure		Drawing Number TTAB-002
	Detailer: S. Hemler	Numbers		
Void:	Sheet Subset: TRAF TAB	Subset Sheets: 2 of 2		Sheet Number 123

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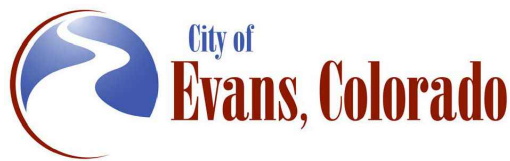
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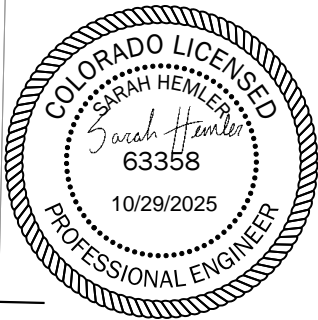
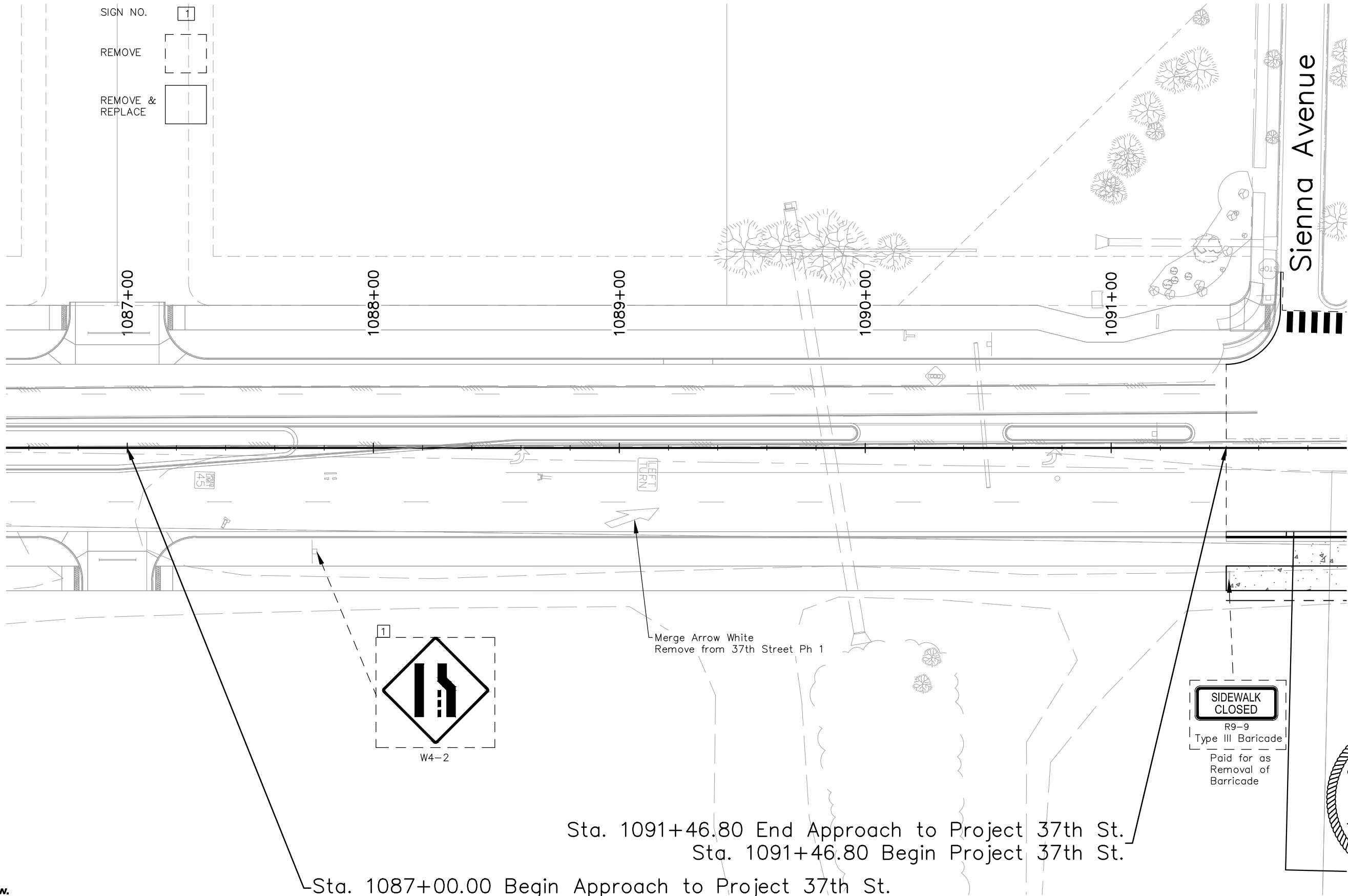
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Date	Comments	Initials

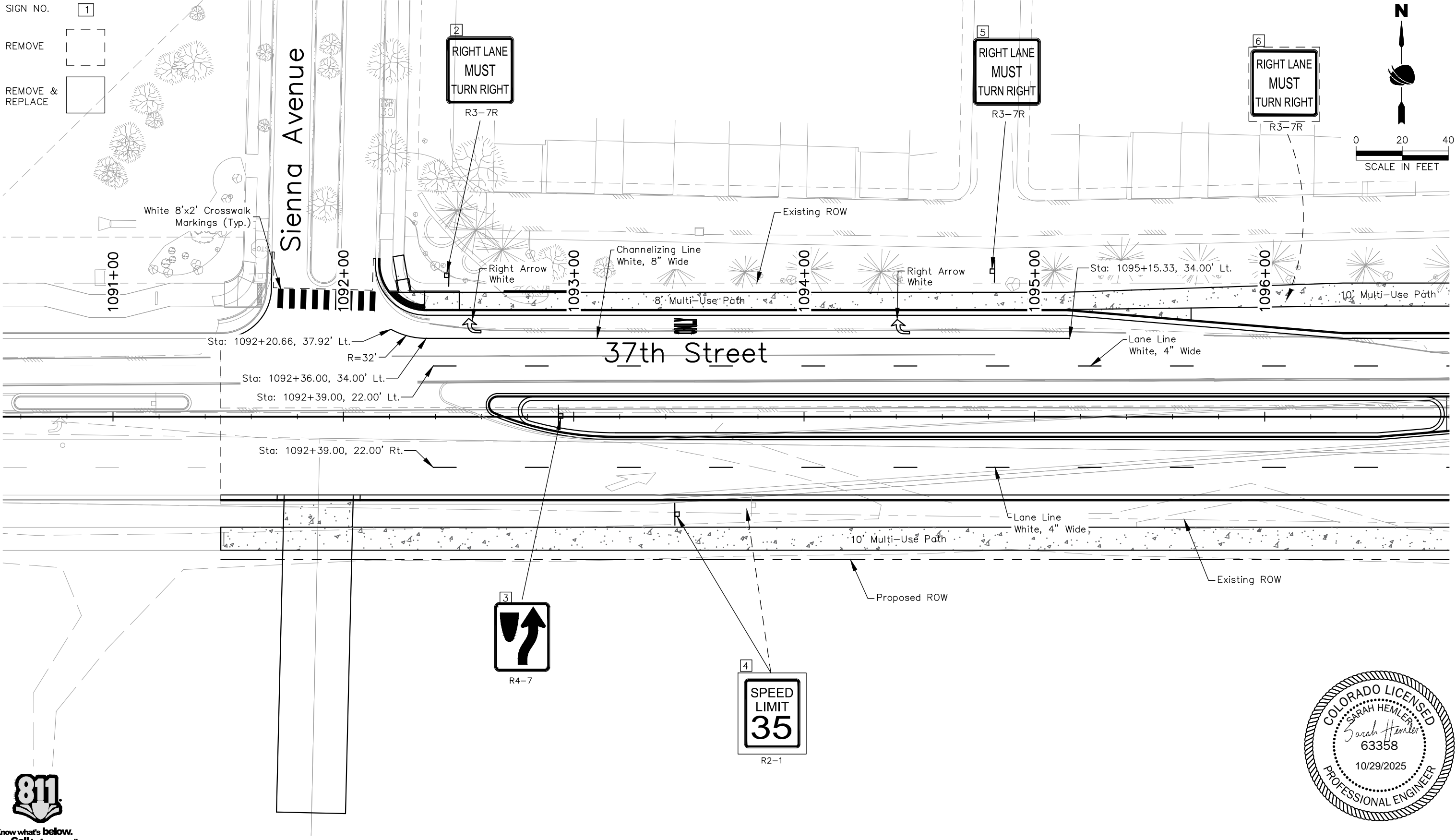


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	No Revisions:		37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number TRAF-001
Void:	Detailer: C. Petersen	Sheet Subset: TRAFFIC	Sheet Number 124
		Subset Sheets: 1 of 6	



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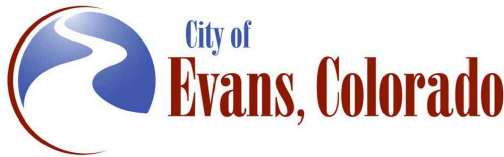




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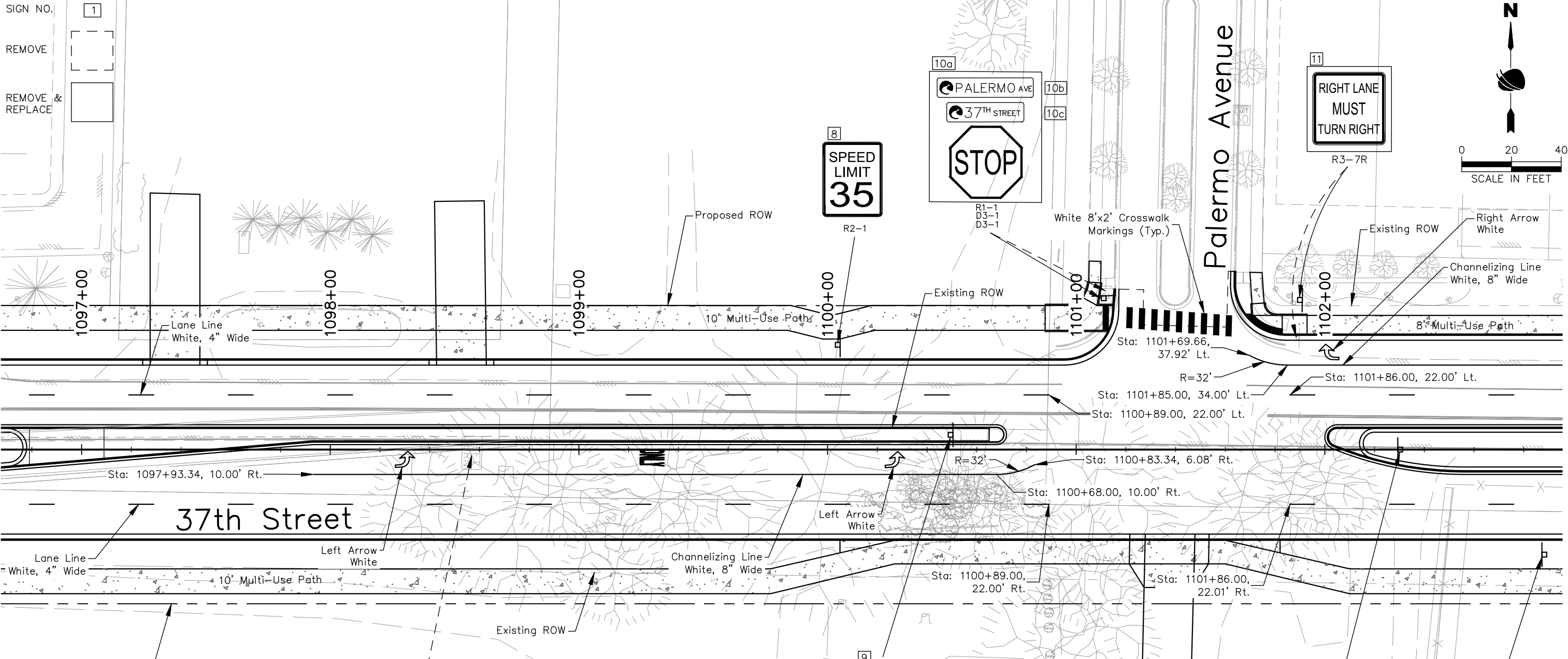
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As Constructed		37TH STREET WIDENING PHASE 2A SIGNING AND STRIPING PLAN		Project No.
No Revisions:				37TH STREET 2A
Revised:		Designer: T. Tuttle	Structure Numbers	Drawing Number TRAF-002
Void:		Detailer: C. Petersen		Sheet Number 125
		Sheet Subset: TRAFFIC	Subset Sheets: 2 of 6	



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7a

7b

PALERMO AVE

W2-2  
D3-1

9

R4-7

12

R4-7

13

R2-1

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City of  
**Evans, Colorado**

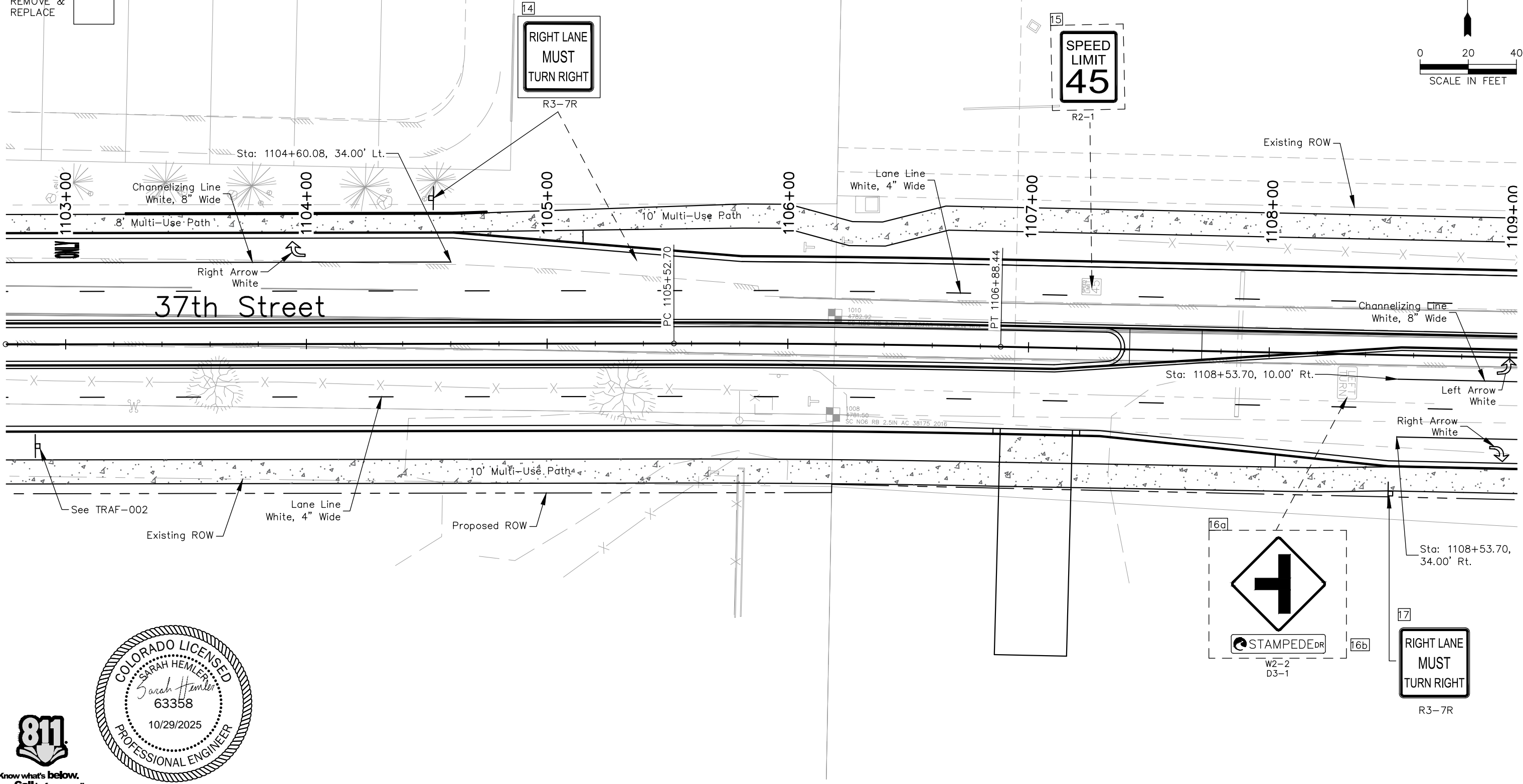
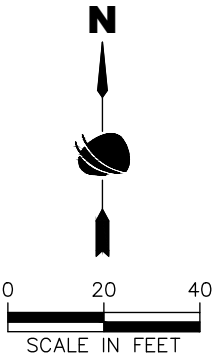
FREEDOM  
Parkway

As Constructed		37TH STREET WIDENING PHASE 2A SIGNING AND STRIPING PLAN		Project No.
No Revisions:		Designer: T. Tuttle		37TH STREET 2A
Revised:		Detailer: C. Petersen	Structure Numbers	
Void:		Sheet Subset: TRAFFIC	Subset Sheets: 3 of 6	Drawing Number TRAF-003
				Sheet Number 126

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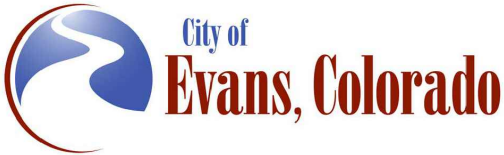
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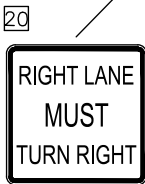
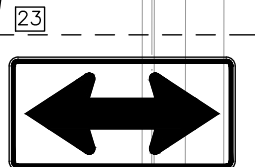
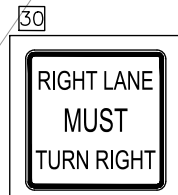
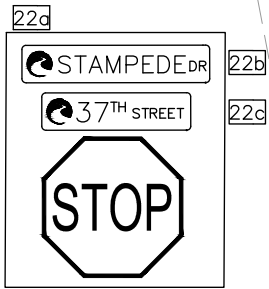


As Constructed		37TH STREET WIDENING PHASE 2A SIGNING AND STRIPING PLAN		Project No.
No Revisions:				37TH STREET 2A
Revised:		Designer: T. Tuttle	Structure Numbers	Drawing Number TRAF-004
Void:		Detailer: C. Petersen		Sheet Number 127
		Sheet Subset: TRAFFIC	Subset Sheets: 4 of 6	

FOR CONSTRUCTION 2/24/2024



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REMOVE  
REMOVE & REPLACE



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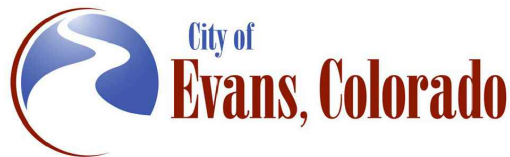
Print Date: 2/19/2024  
File Name: TRAF P2A-001 TRAFFIC SIGNING AND STRIPING.DWG  
Horiz. Scale: As Noted Vert. Scale: N/A



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 STREET WIDENING PHASE 2A  
SIGNING AND STRIPING PLAN

Designer: T. Tuttle  
Detailer: C. Petersen  
Sheet Subset: TRAFFIC  
Structure Numbers  
Subset Sheets: 5 of 6

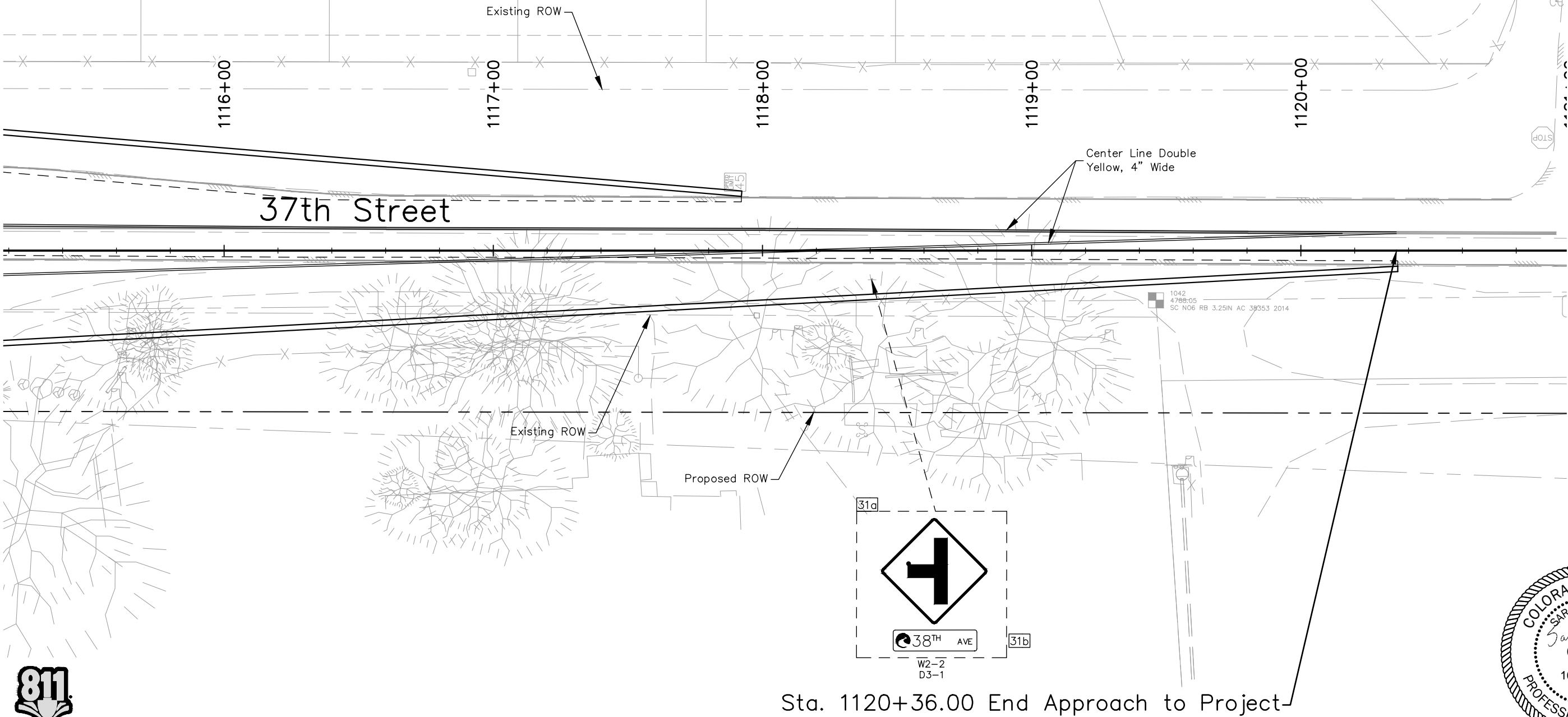
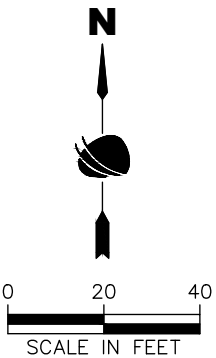
Project No.

37TH STREET 2A  
Drawing Number TRAF-005  
Sheet Number 128

Sta. 1115+06.00 End Project 37th St.  
Sta. 1115+06.00 Begin Approach to Project

FOR CONSTRUCTION 2/24/2024

SIGN NO. 1  
REMOVE  
REMOVE & REPLACE



Plot Date: 2/19/2024 3:27 PM Plotted By: Sarah Hemler  
C:\Q-PROJECTS\VAITE PROJECTS\33001\EVANS 37TH ST AND 47TH AVE PLAN\2024 COMPUTER DESIGN FILES\P2 - PHASE 2A\802\_SHEET FILES\TRAF P2A-001 TRAFFIC SIGNING AND STRIPING.DWG

Print Date: 2/19/2024	
File Name: TRAF P2A-001 TRAFFIC SIGNING AND STRIPING.DWG	
Horiz. Scale: As Noted	Vert. Scale: N/A
	12076 Grant Street
	Thornton, CO 80241
	Ph: (303) 962-9300
	Fax: (303) 962-9350

	Sheet Revisions		
	Date	Comments	Initials

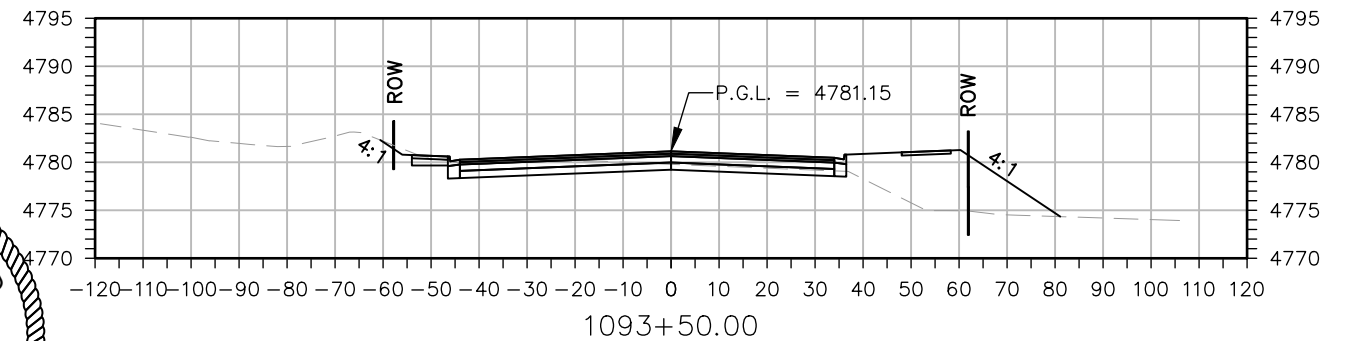
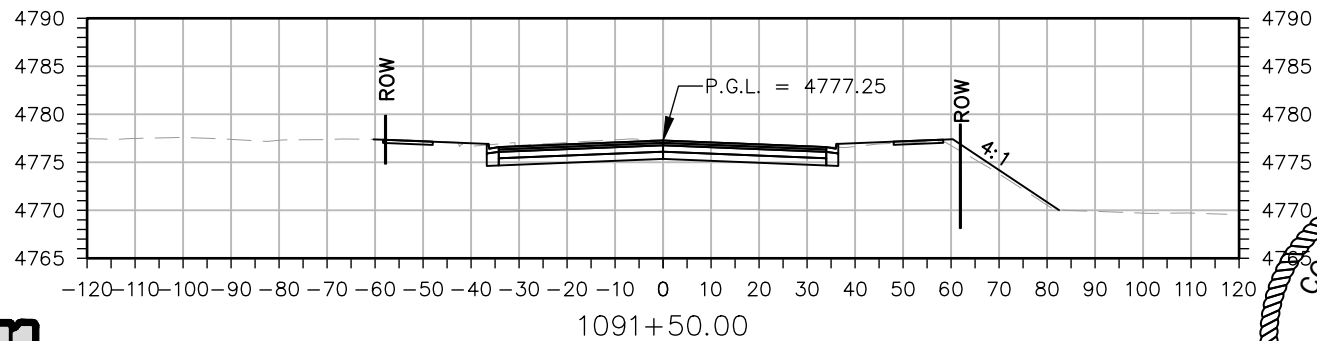
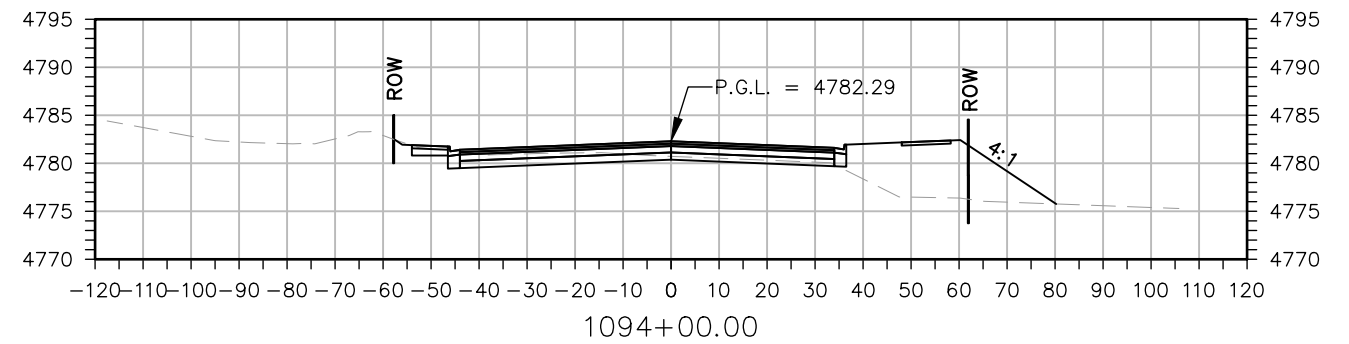
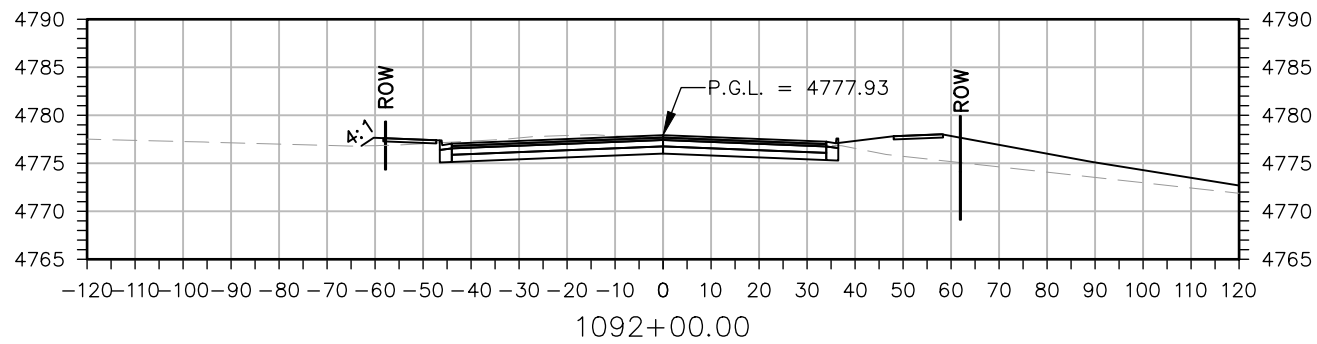
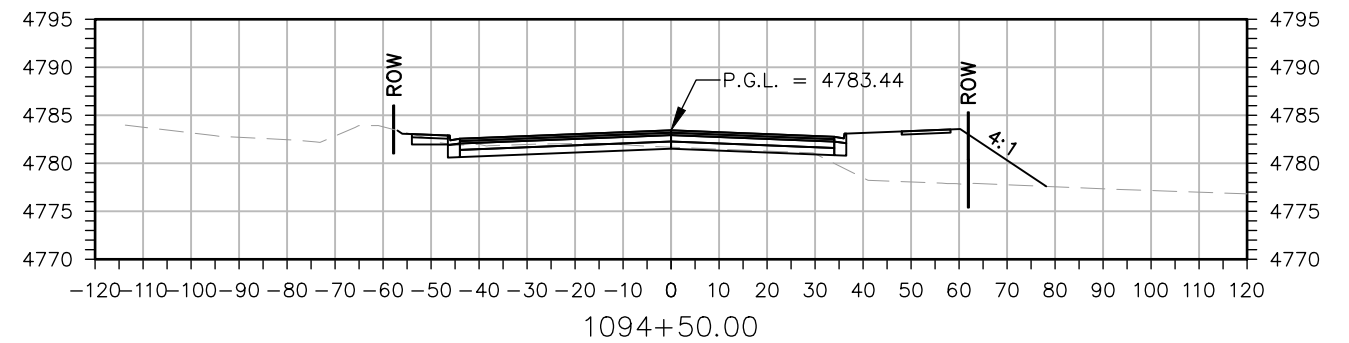
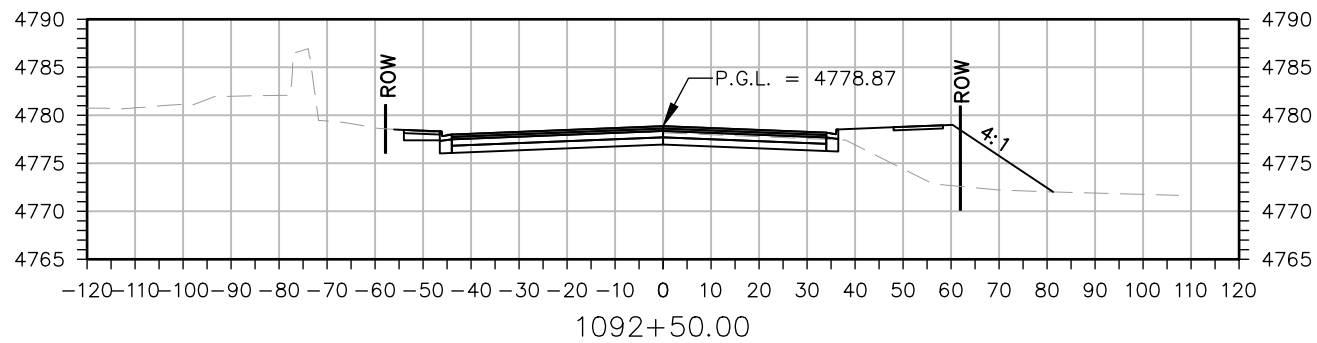
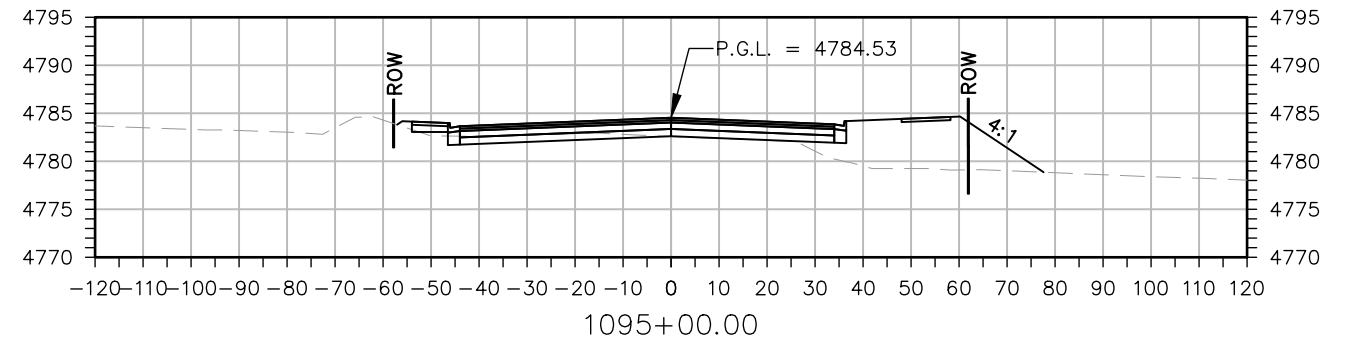
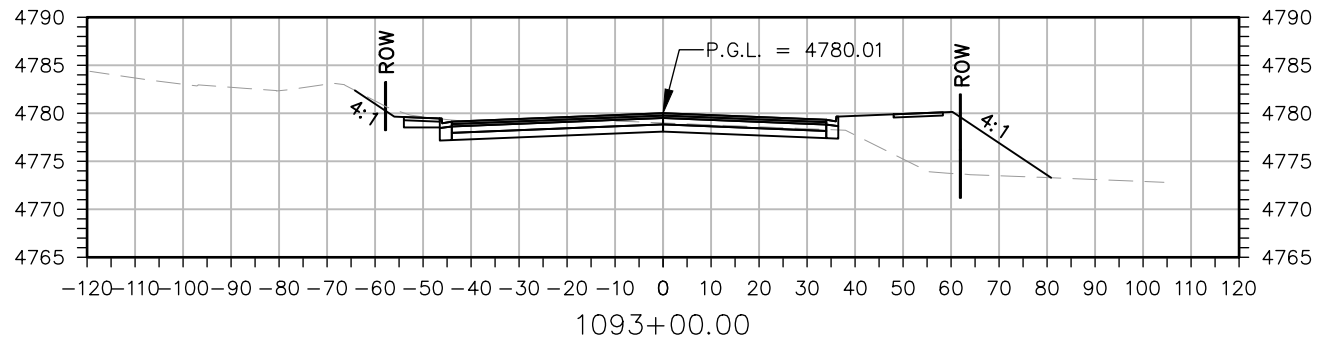


As Constructed
No Revisions:
Revised:
Void:

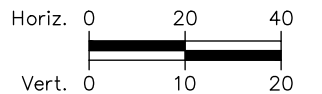
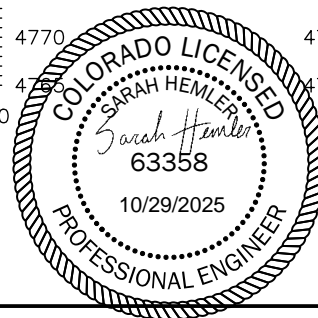
37TH STREET WIDENING PHASE 2A SIGNING AND STRIPING PLAN			
Designer:	T. Tuttle	Structure	
Detailer:	C. Petersen	Numbers	
Sheet Subset:	TRAFFIC	Subset Sheets: 6 of 6	

Project No.
37TH STREET 2A
Drawing Number TRAF-006
Sheet Number 129

FOR CONSTRUCTION 2/24/2024



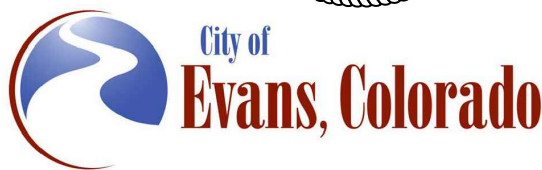
STA. 1091+46.80 BEGIN PROJECT 37TH ST.



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Print Date: 2/19/2024	
File Name: XS P2A-001 CROSS SECTIONS.DWG	
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	12076 Grant Street
	Thornton, CO 80241
	Ph: (303) 962-9300
Fax: (303) 962-9350	

Sheet Revisions		
Date:	Comments	Init.

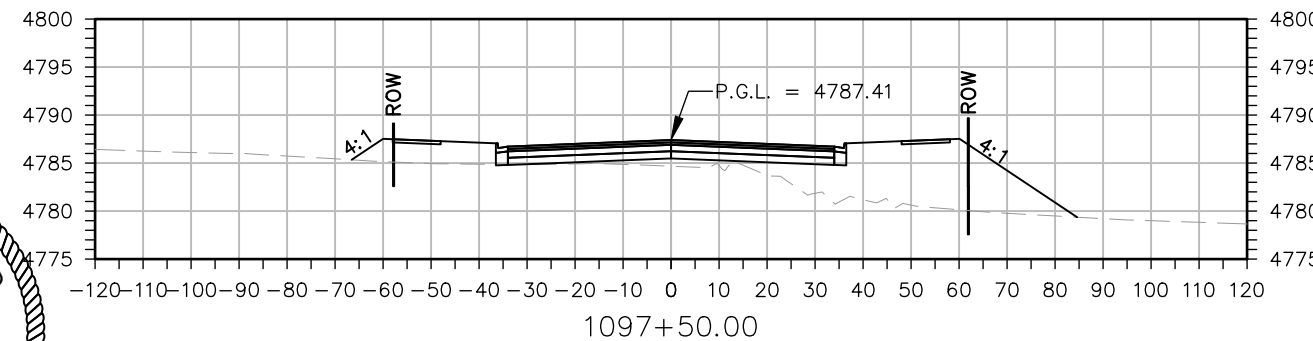
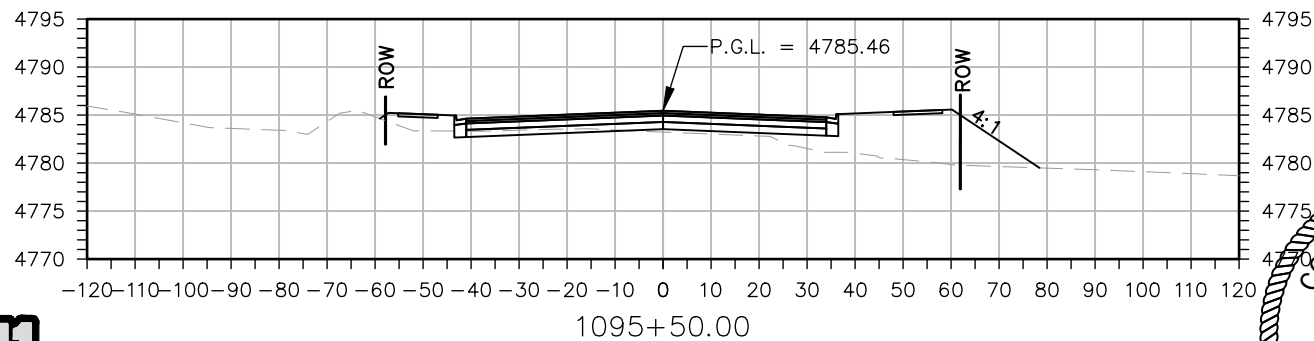
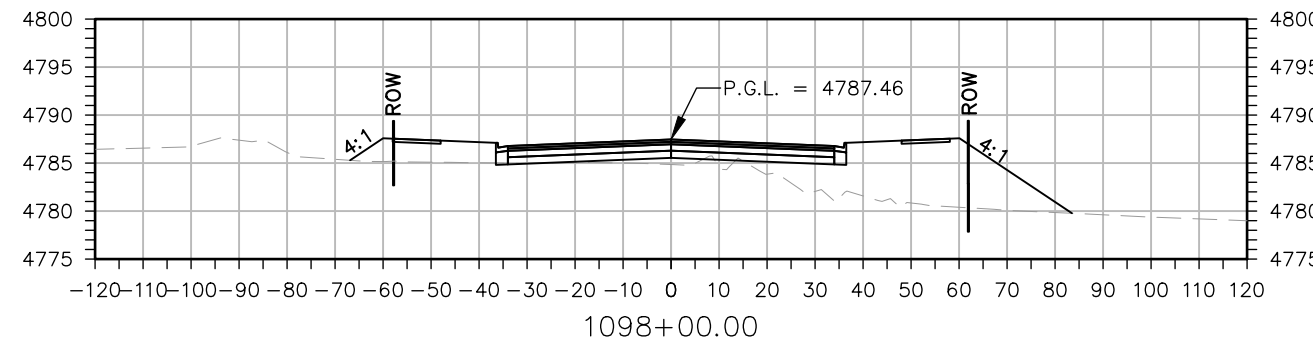
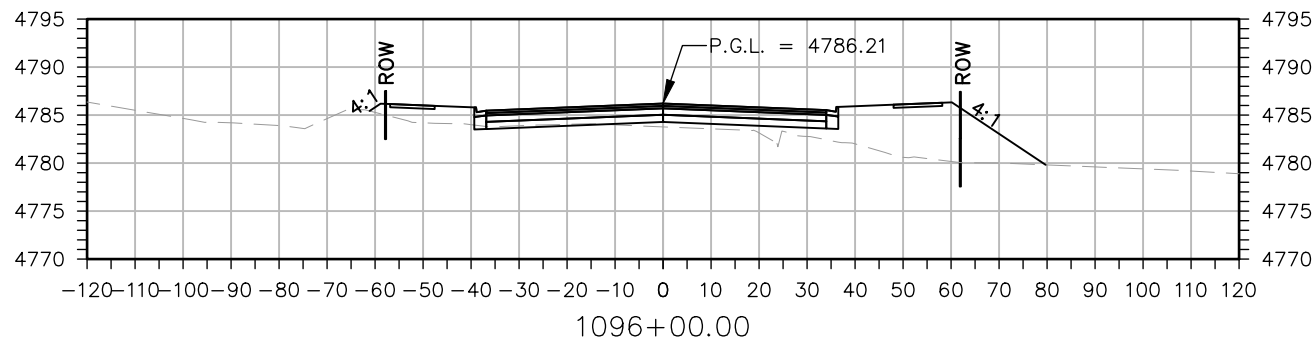
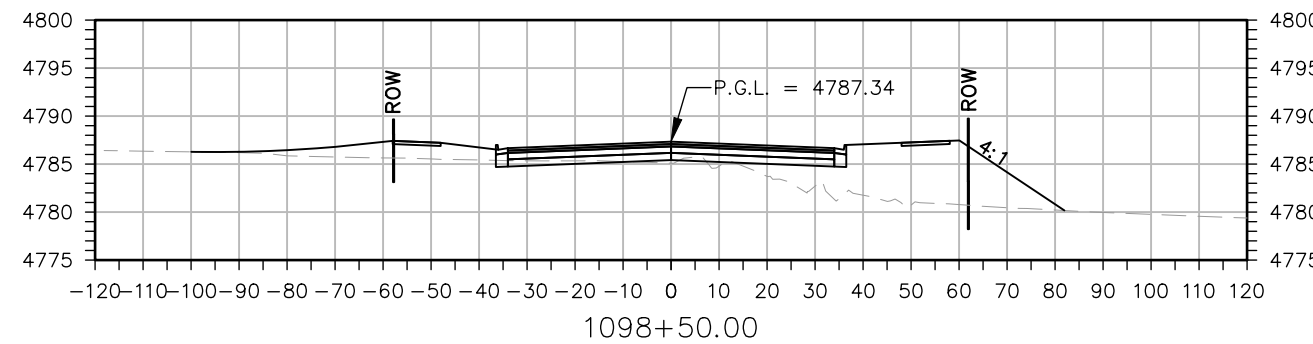
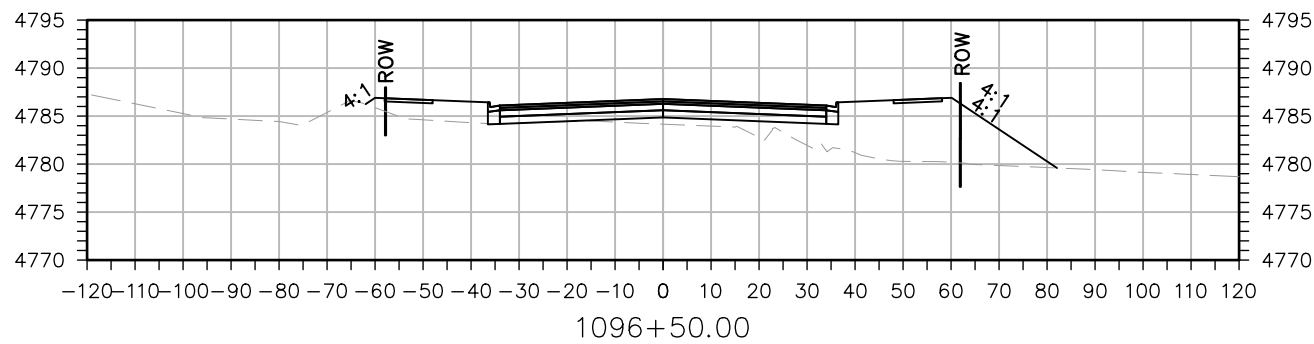
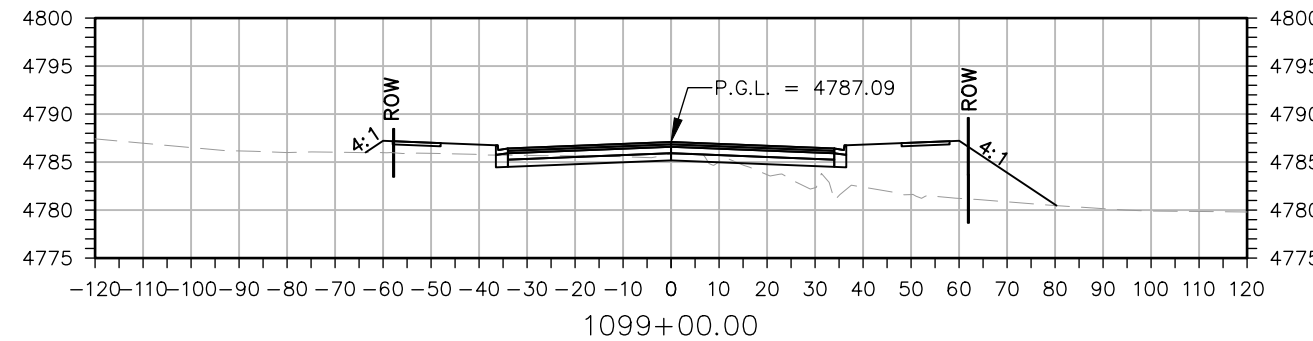
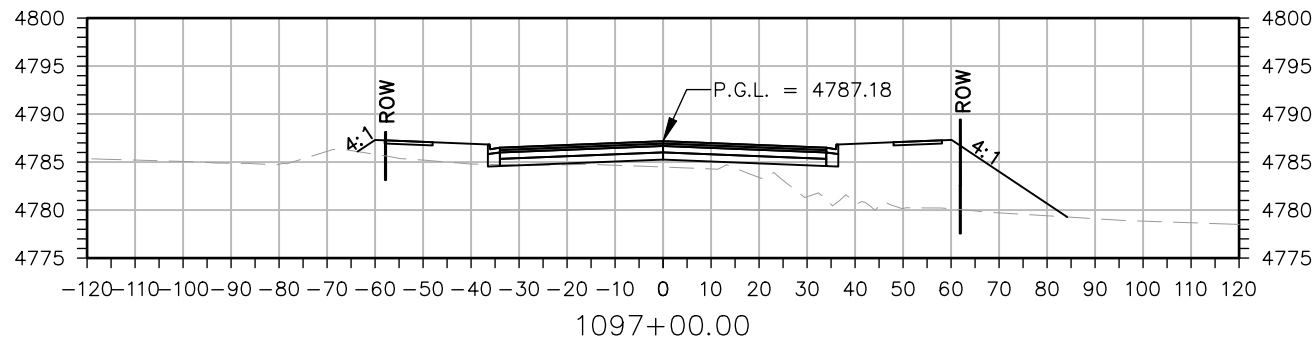


As Constructed	37TH STREET WIDENING PHASE 2A CROSS SECTIONS			Project No.
	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers		Drawing Number XS-001
Void:	Detailer: S. Hemler			Sheet Number 200
Sheet Subset: X SECTIONS		Subset Sheets: 1 of 8		

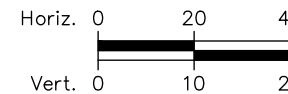
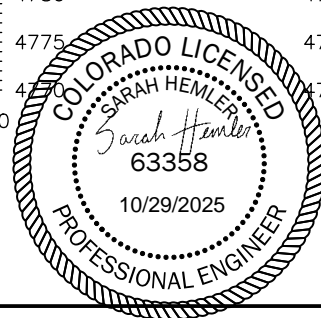
Plot Date: 2/19/2024 10:27 AM Plotted By: Sarah Hemler  
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FOR CONSTRUCTION 2/24/2024



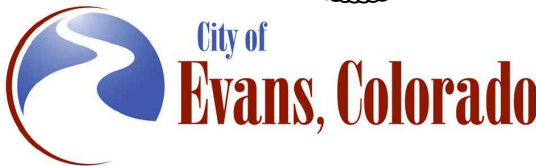


Know what's below.  
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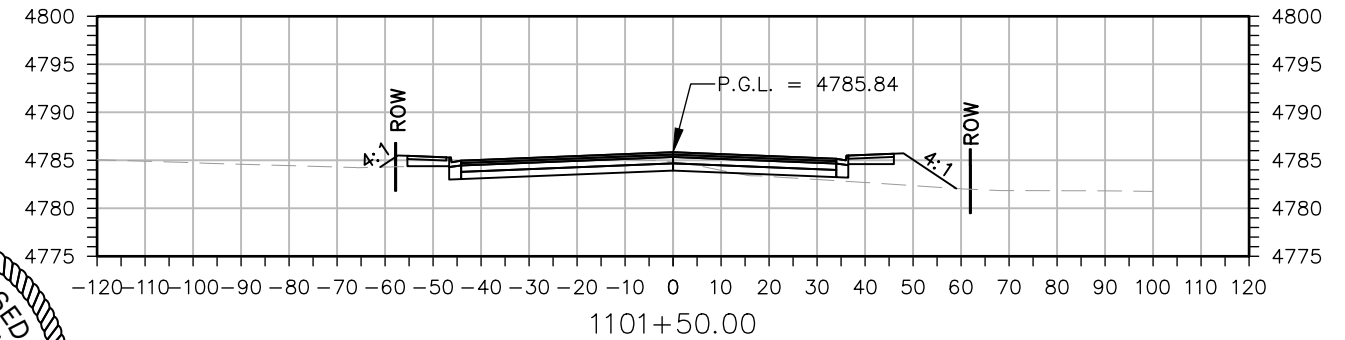
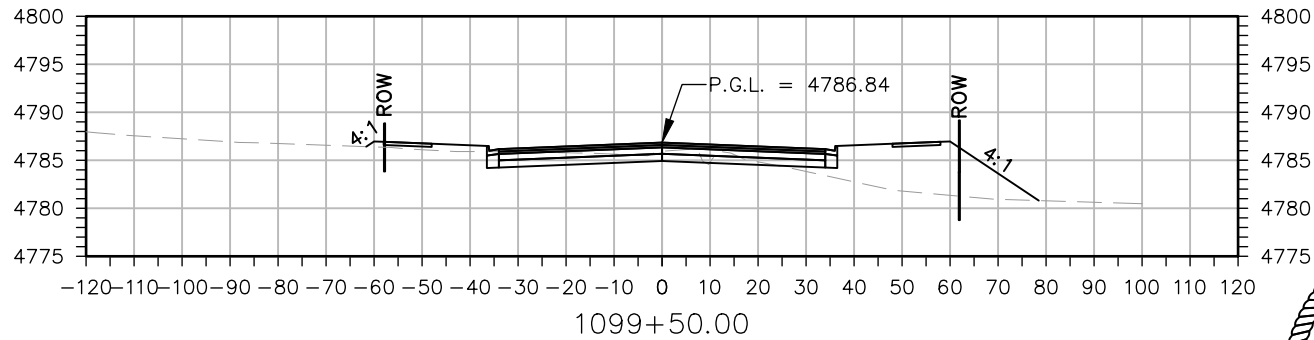
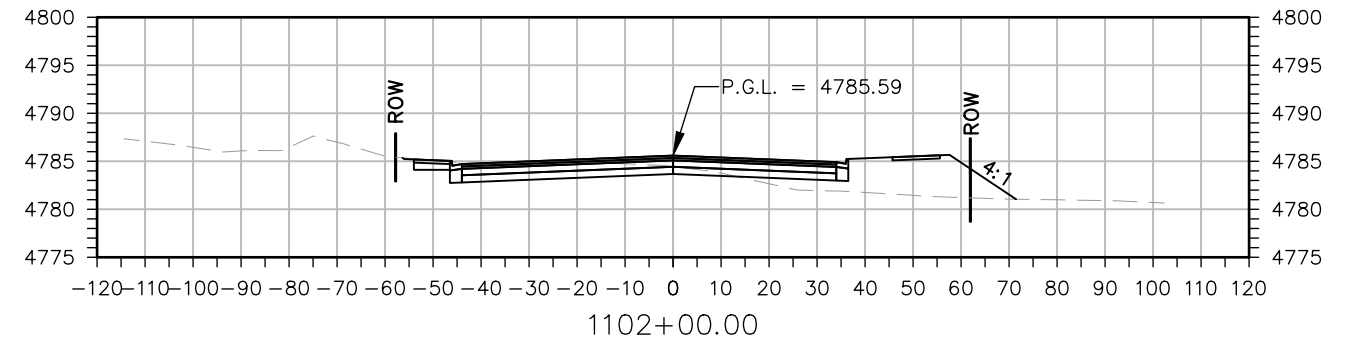
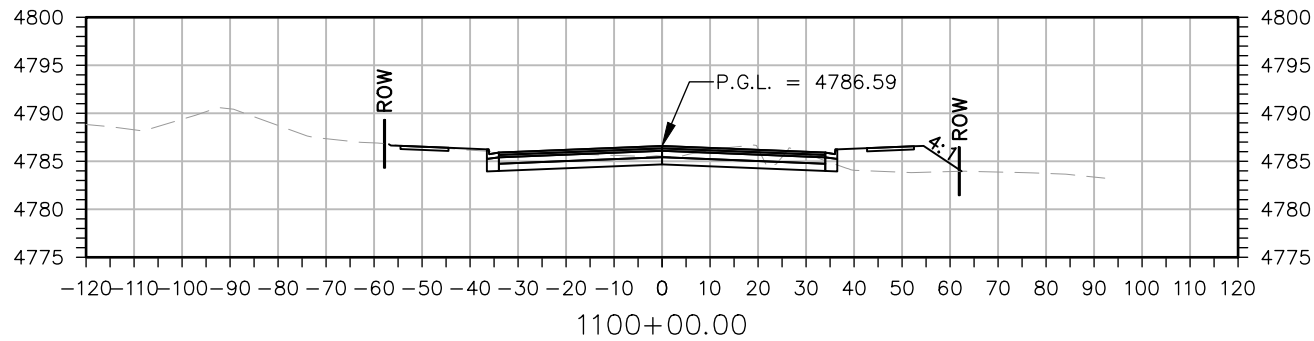
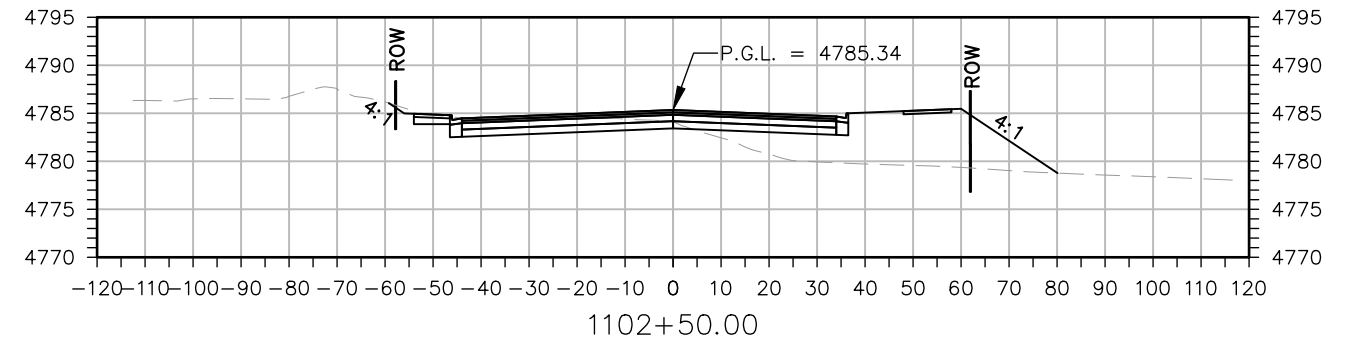
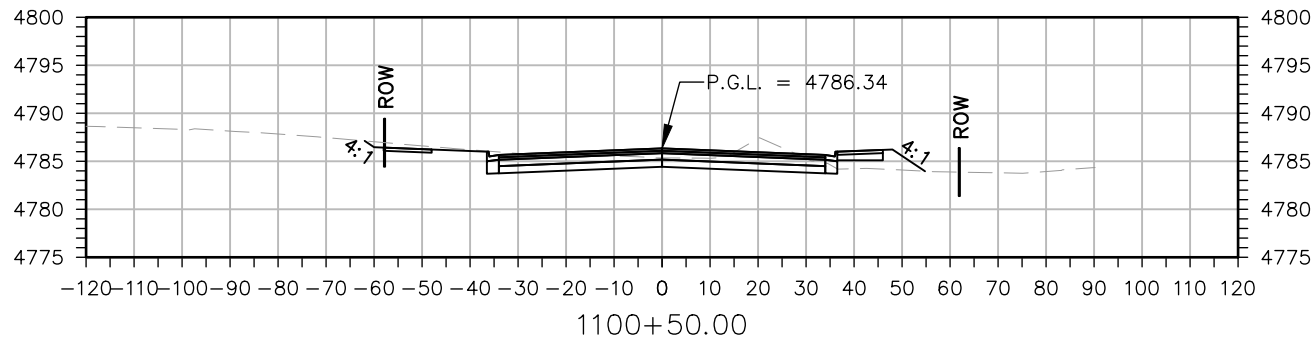
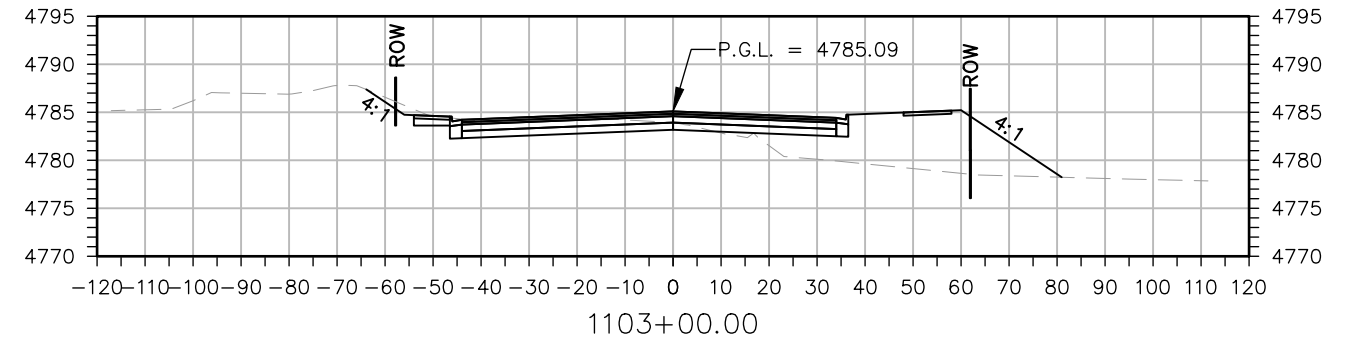
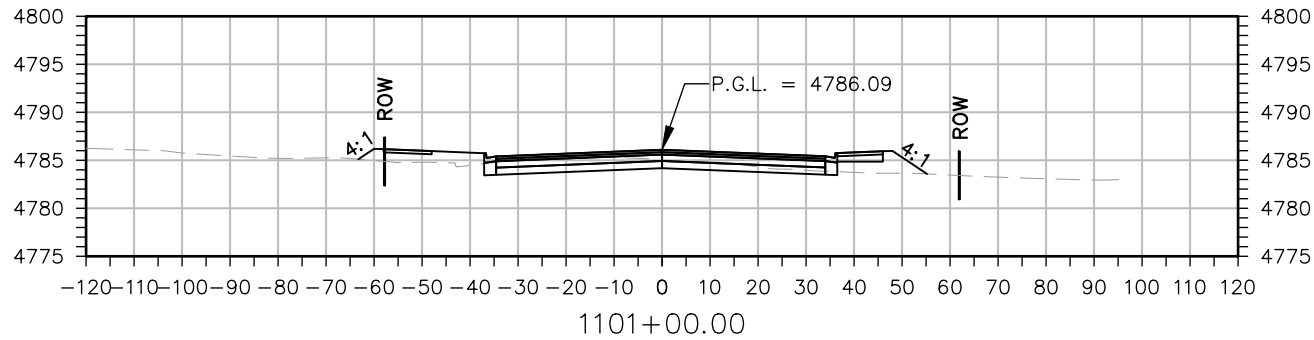
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File Name: XS P2A-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
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	Thornton, CO 80241
	Ph: (303) 962-9300
Fax: (303) 962-9350	

Sheet Revisions		
Date:	Comments	Init.

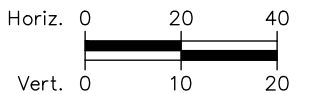
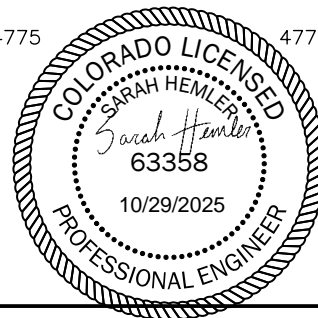


As Constructed	37TH STREET WIDENING PHASE 2A CROSS SECTIONS			Project No.
	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers		Drawing Number XS-002
Void:	Detailer: S. Hemler			Sheet Number 201
	Sheet Subset: X SECTIONS	Subset Sheets: 2 of 8		

FOR CONSTRUCTION 2/24/2024

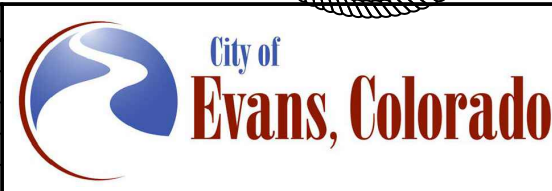


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Print Date: 2/19/2024	
File Name: XS P2A-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
	12076 Grant Street
	Thornton, CO 80241
	Ph: (303) 962-9300
	Fax: (303) 962-9350

Sheet Revisions		
Date:	Comments	Init.

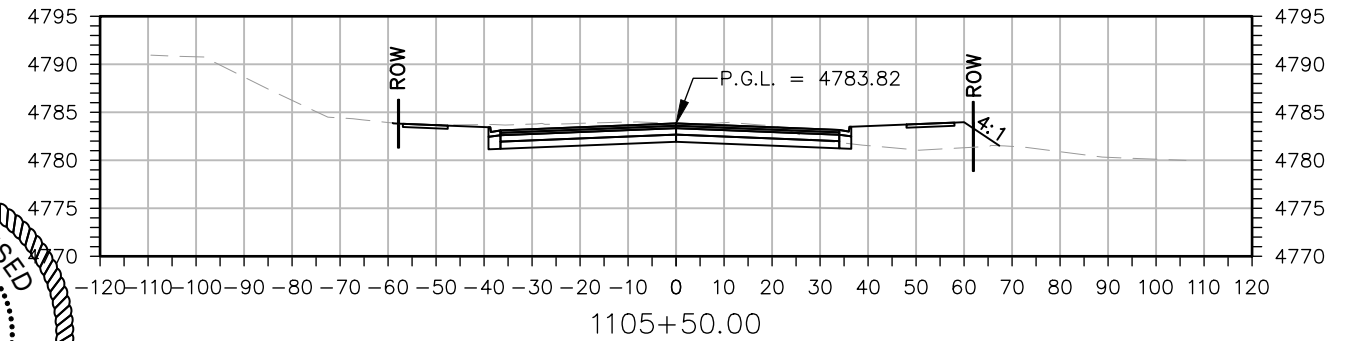
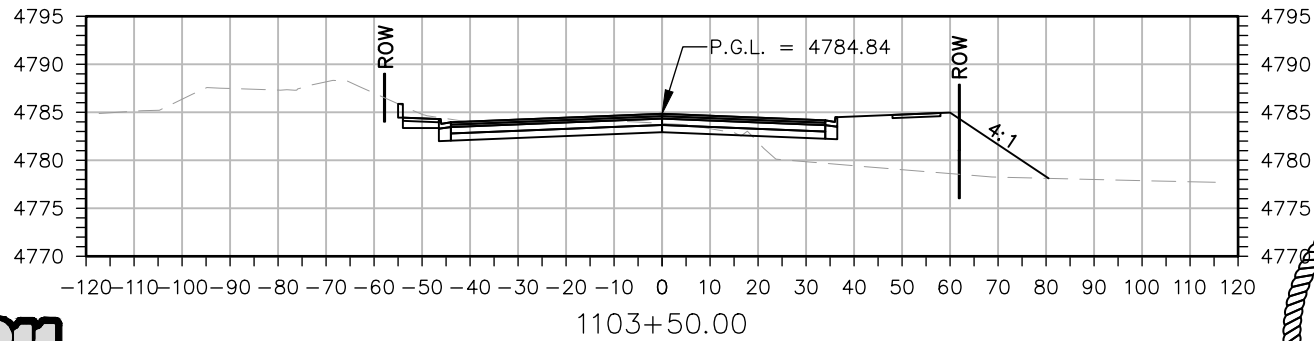
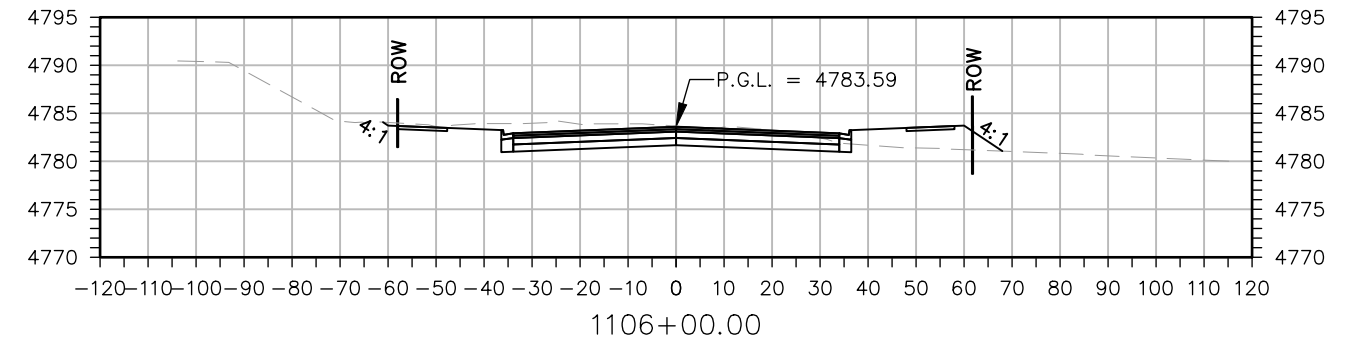
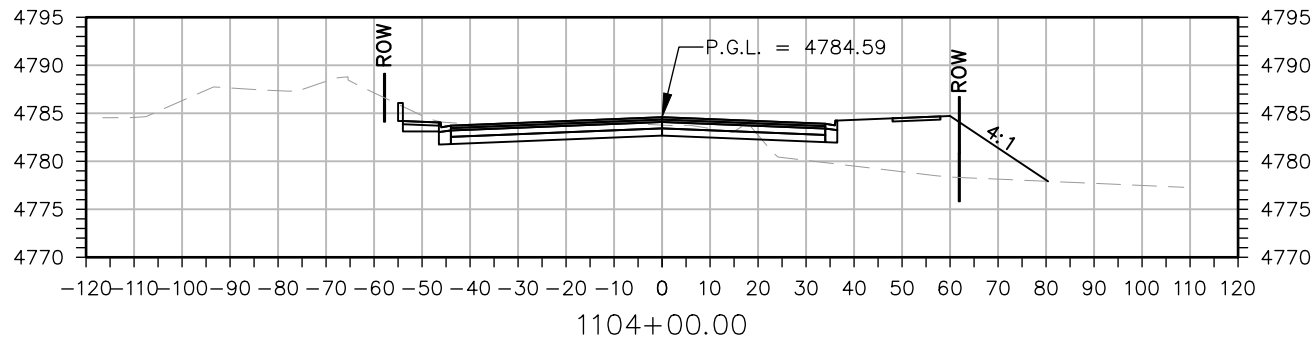
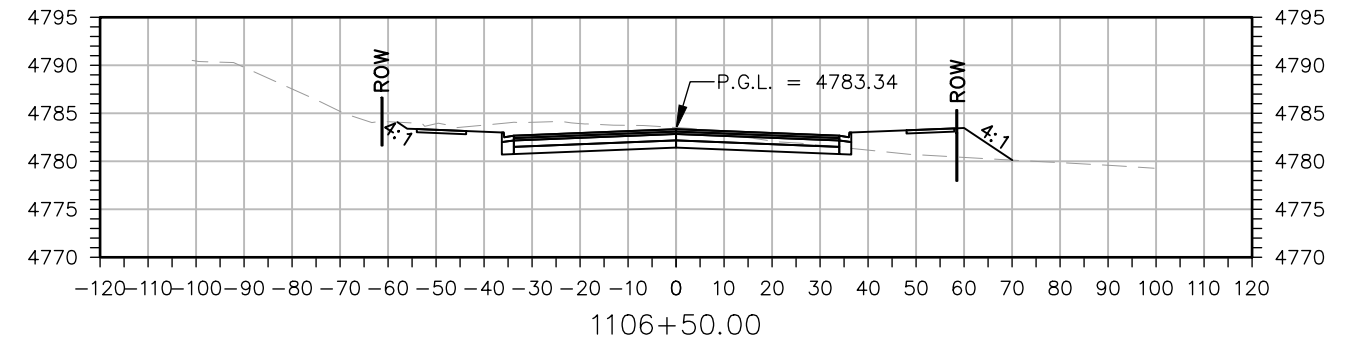
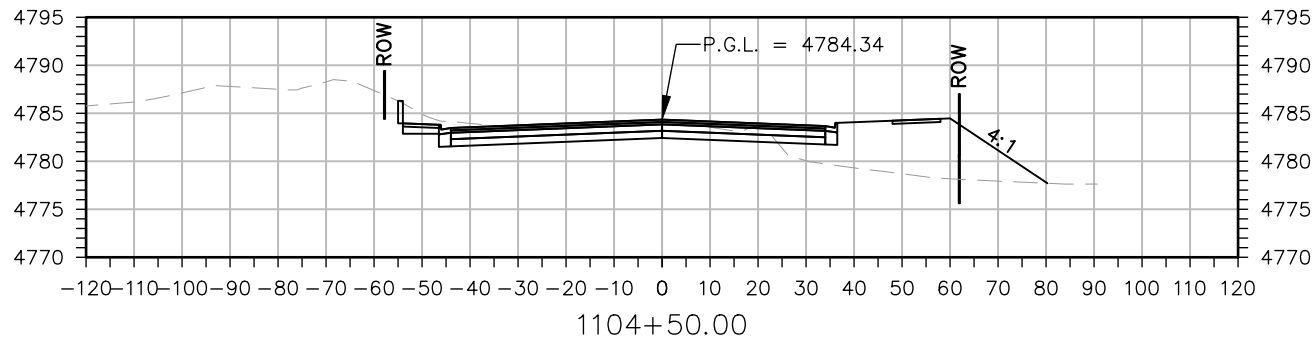
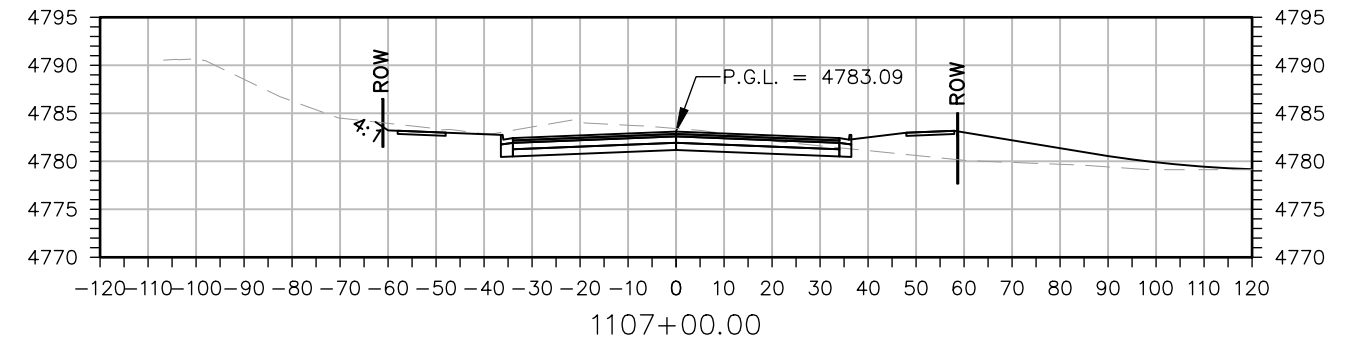
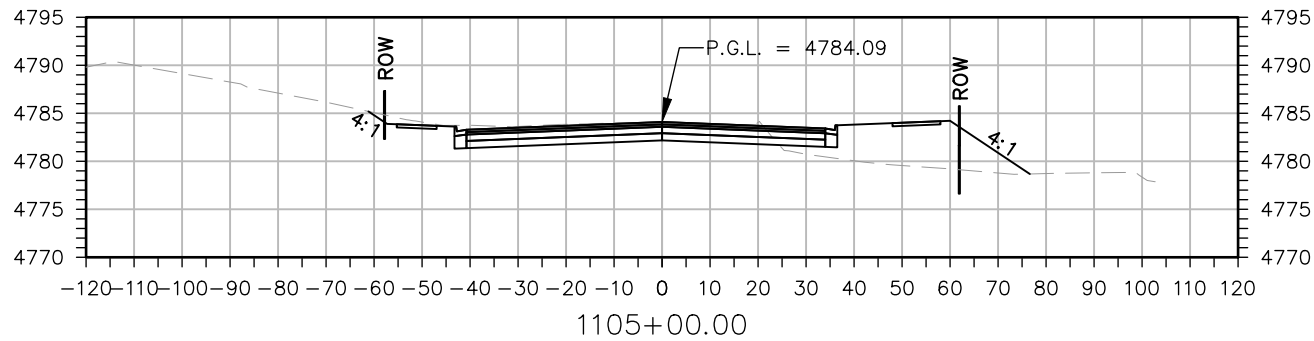


As Constructed
No Revisions:
Revised:
Void:

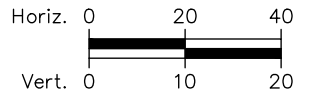
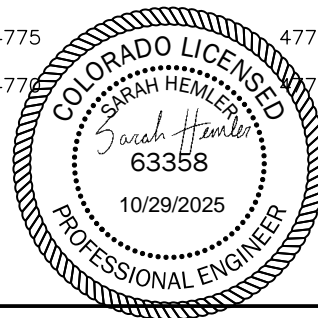
37TH STREET WIDENING PHASE 2A CROSS SECTIONS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset: X SECTIONS	Subset Sheets: 3 of 8	

Project No.
37TH STREET 2A
Drawing Number XS-003
Sheet Number 202

FOR CONSTRUCTION 2/24/2024

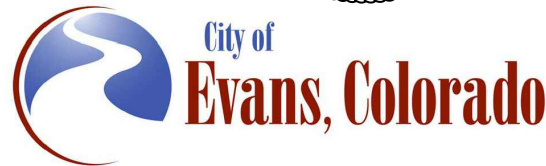


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File Name: XS P2A-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
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	Ph: (303) 962-9300
Fax: (303) 962-9350	

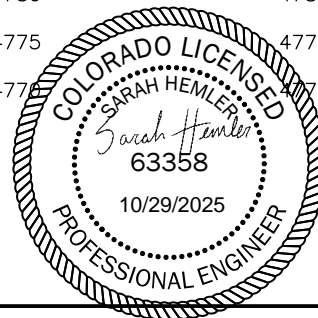
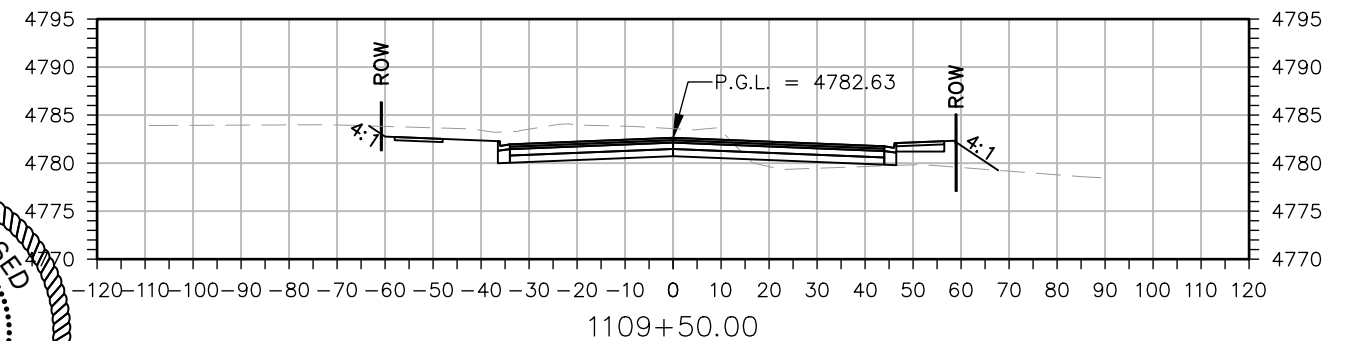
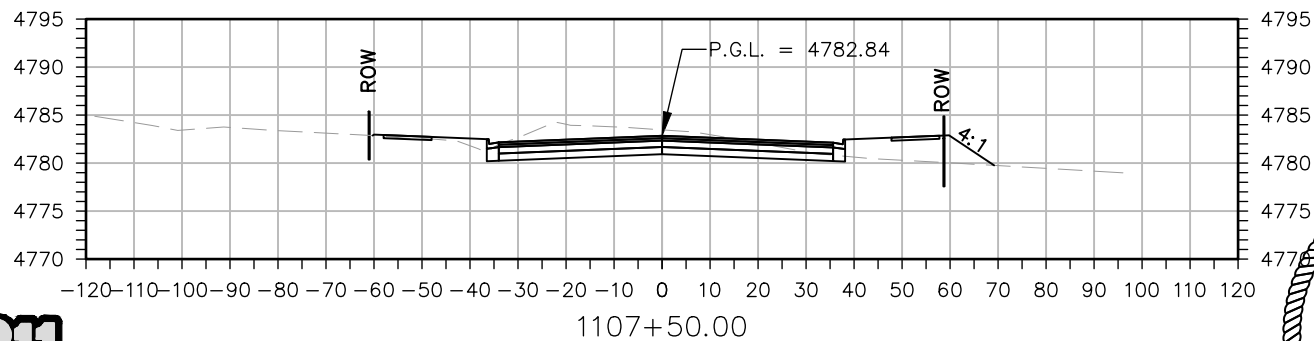
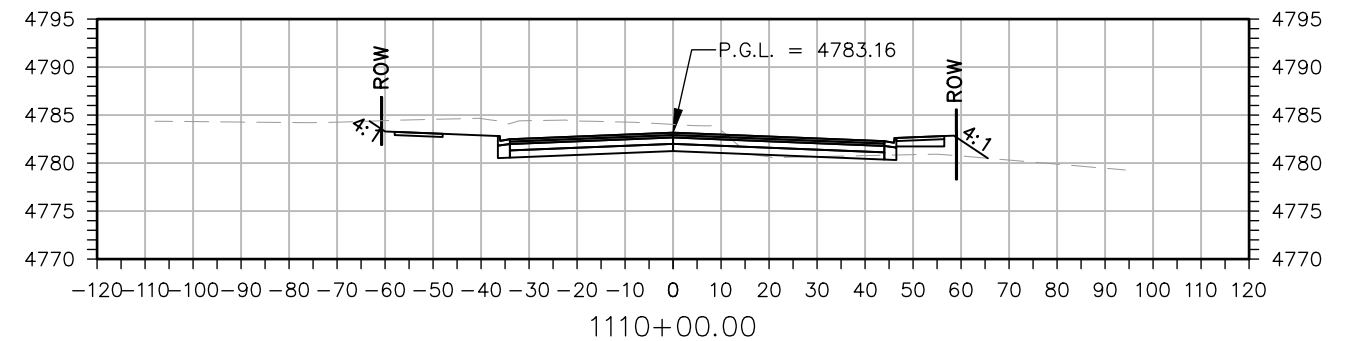
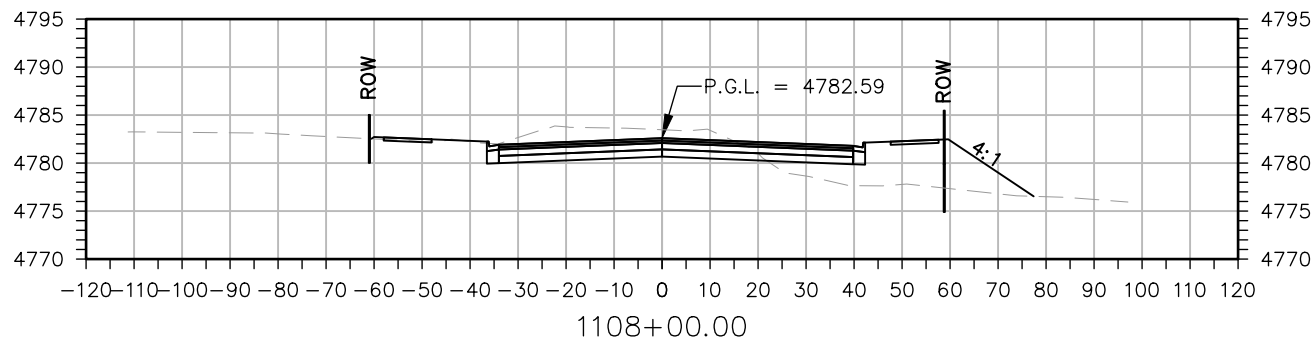
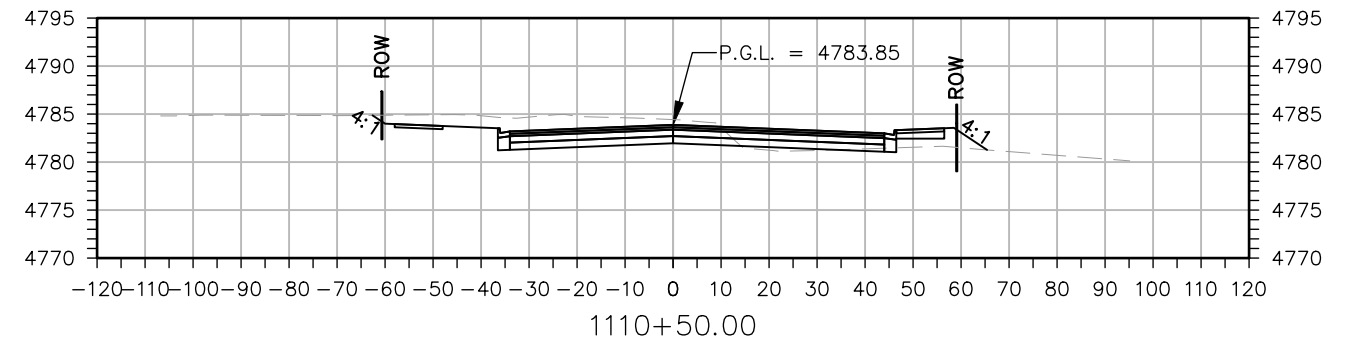
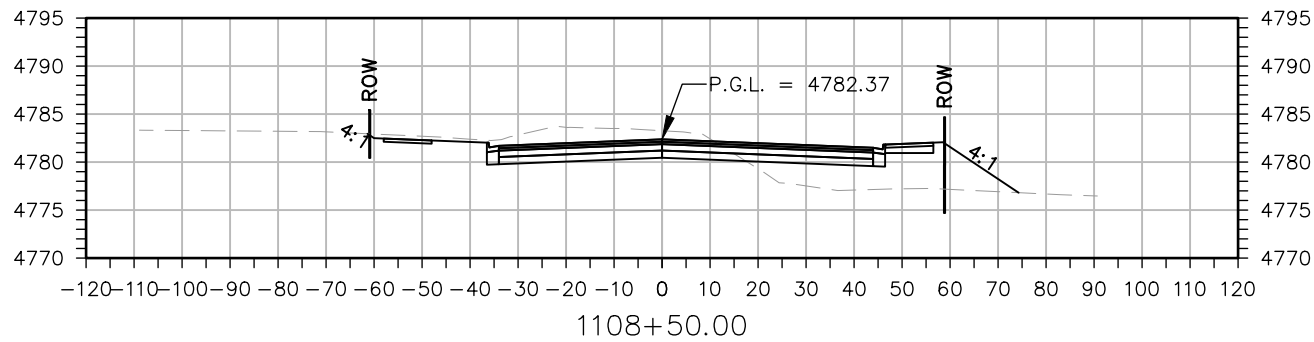
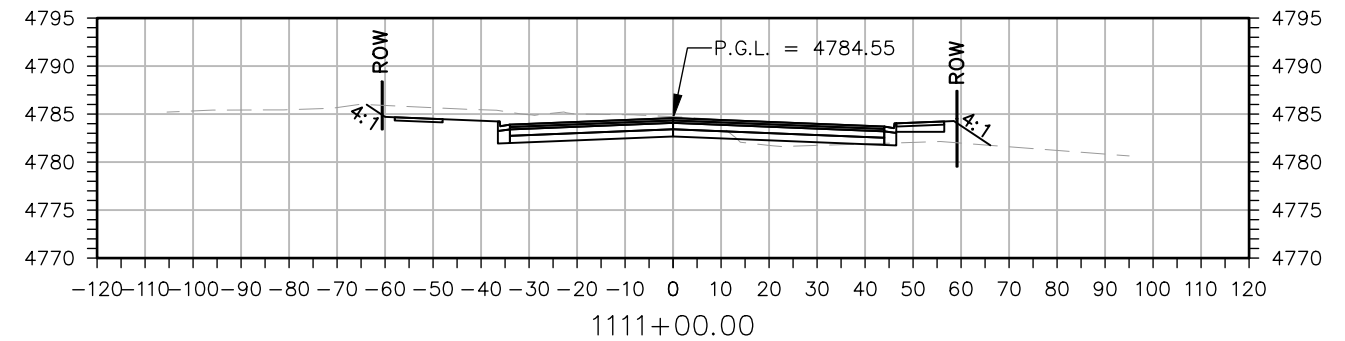
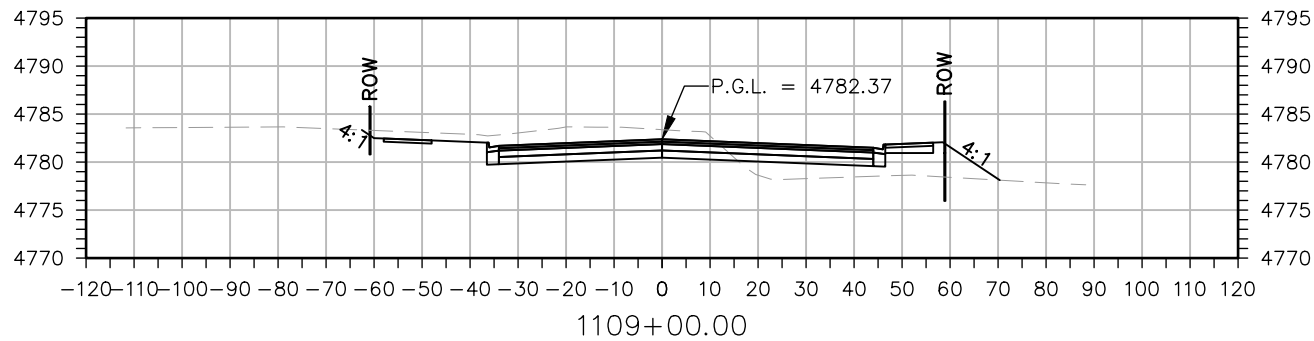
Sheet Revisions		
Date:	Comments	Init.



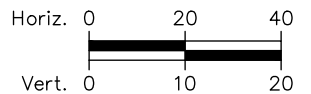
As Constructed	37TH STREET WIDENING PHASE 2A CROSS SECTIONS		Project No.
	No Revisions:		37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number XS-004
Void:	Detailer: S. Hemler	Sheet Subset: X SECTIONS	Sheet Number 203
		Subset Sheets: 4 of 8	


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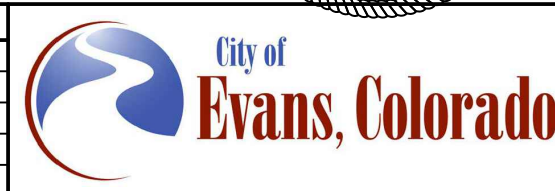


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Sheet Revisions		
Date:	Comments	Init.



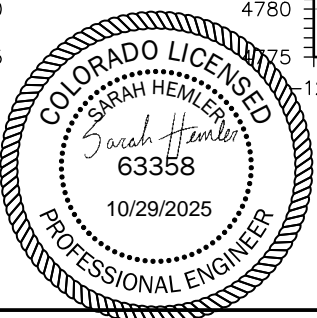
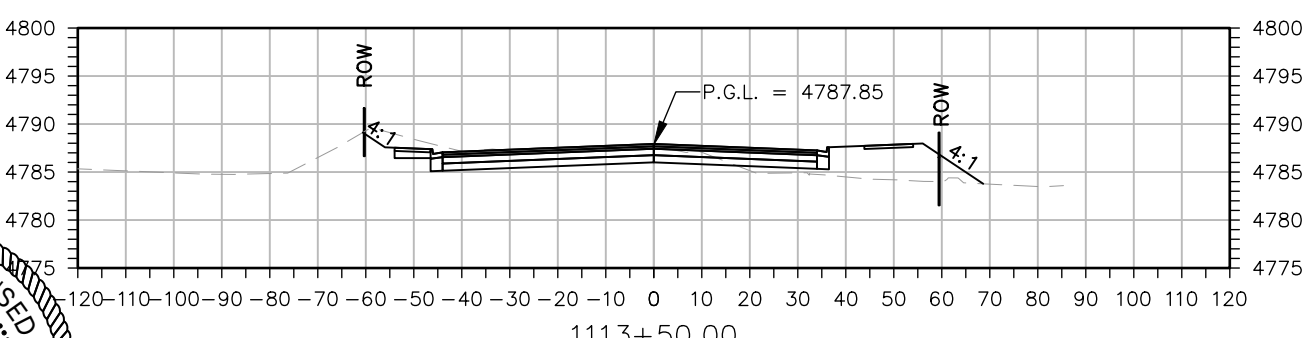
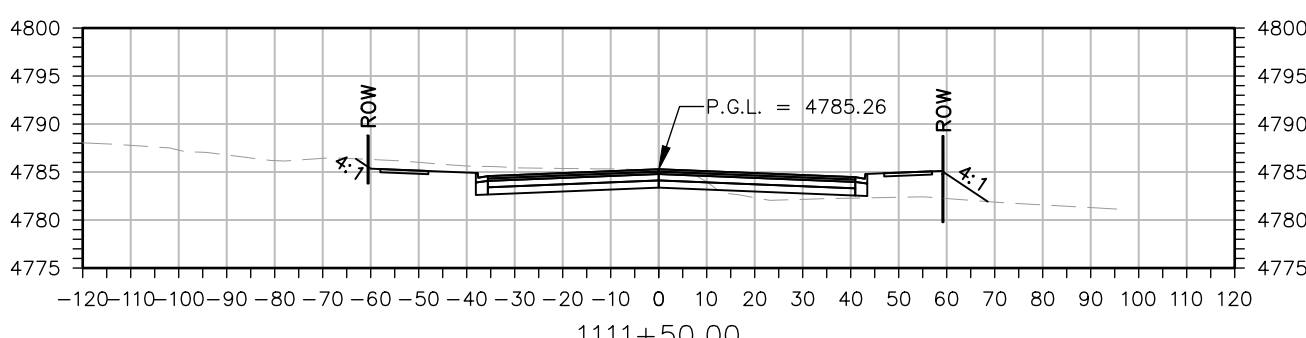
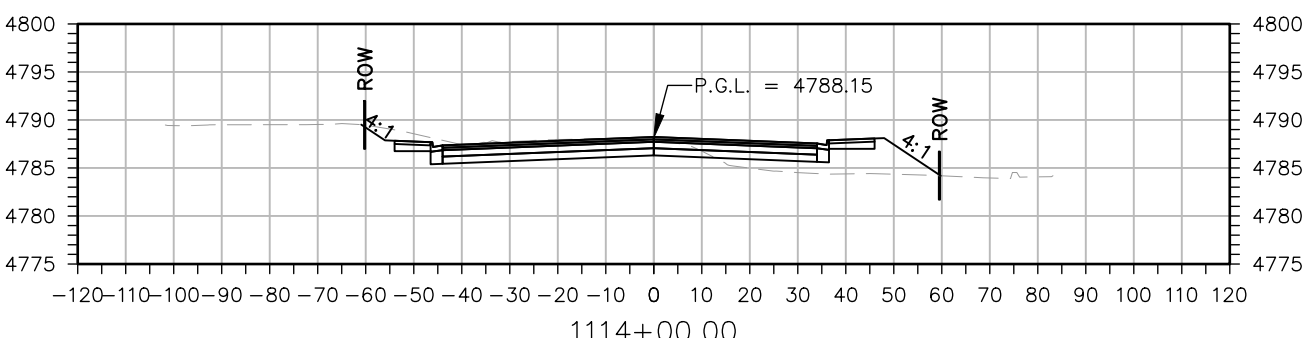
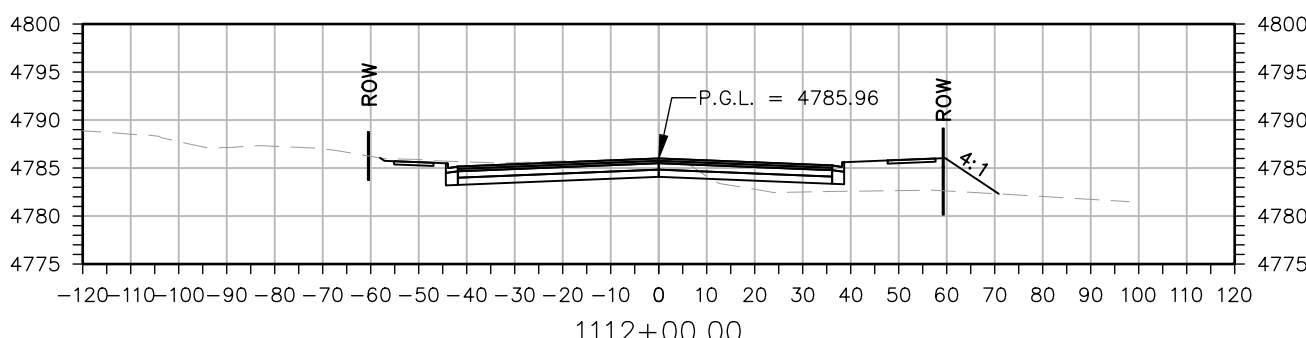
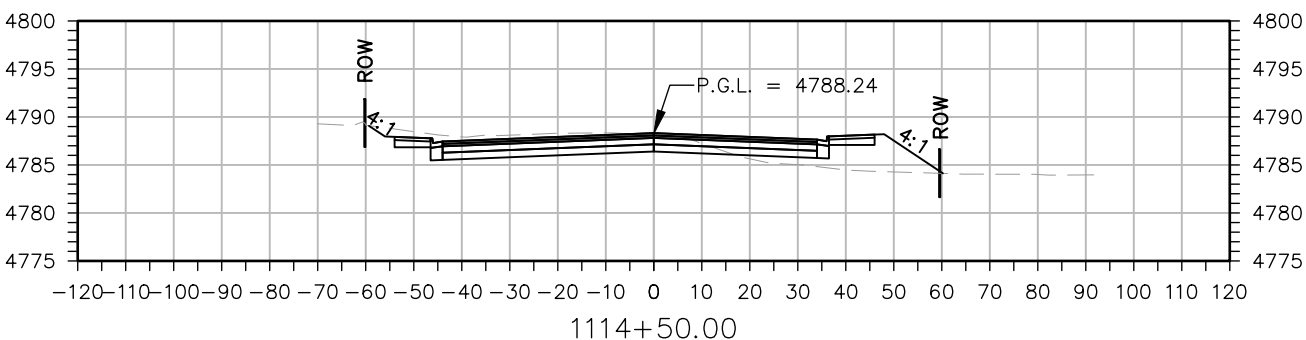
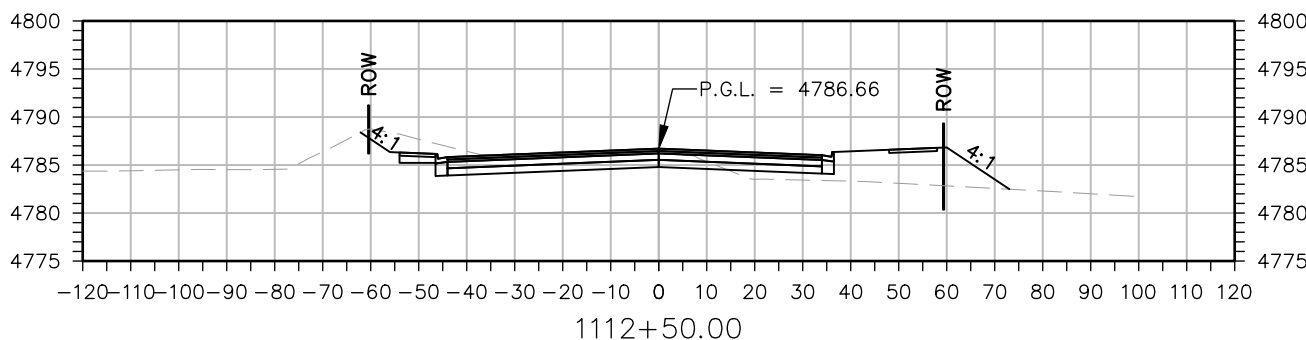
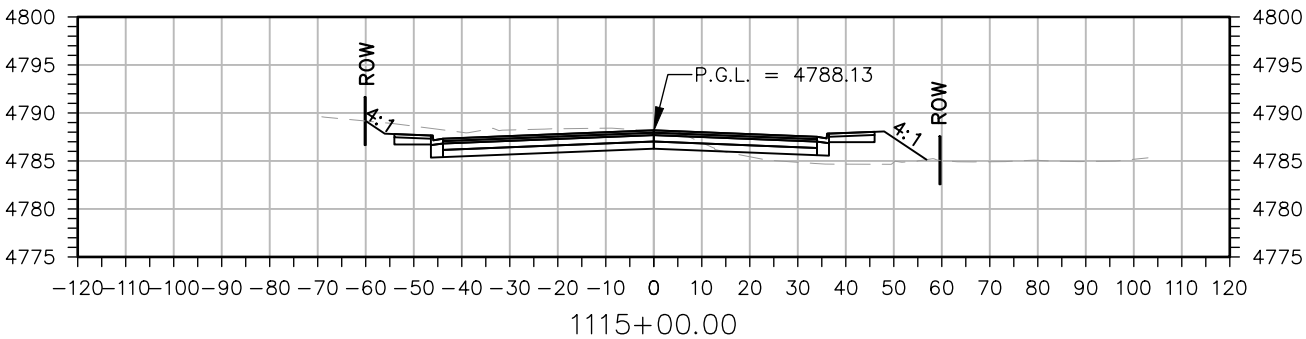
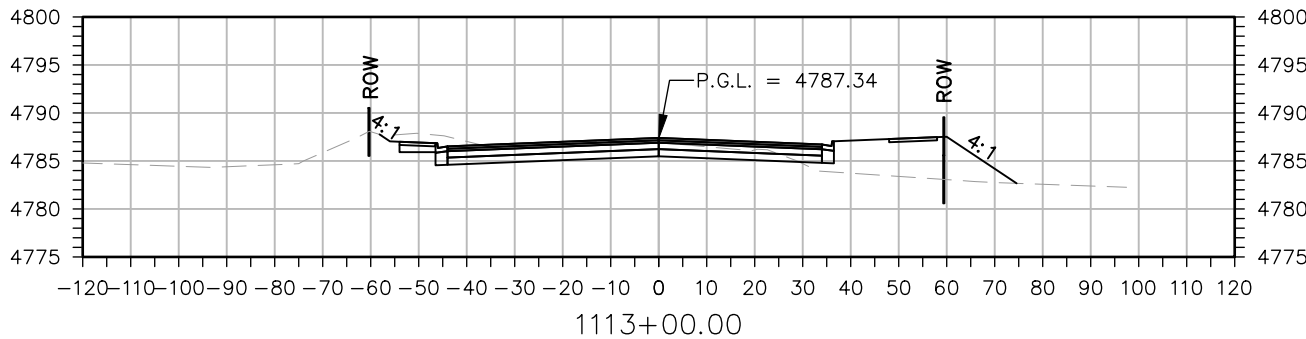
As Constructed
No Revisions:
Revised:
Void:

37TH STREET WIDENING PHASE 2A CROSS SECTIONS		
Designer:	T. Tuttle	Structure Numbers
Detailer:	S. Hemler	
Sheet Subset:	X SECTIONS	Subset Sheets: 5 of 8

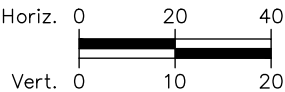
Project No.
37TH STREET 2A
Drawing Number XS-005
Sheet Number 204

FOR CONSTRUCTION 2/24/2024

STA. 1115+06.00 END PROJECT 37TH ST.  
STA. 1115+06.00 BEGIN APPROACH TO PROJECT

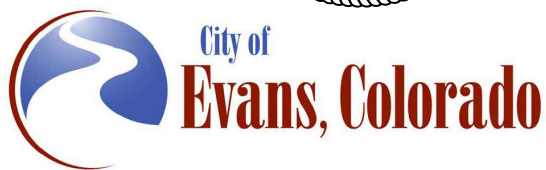


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Print Date: 2/19/2024	
File Name: XS P2A-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
	12076 Grant Street
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	Ph: (303) 962-9300
Fax: (303) 962-9350	

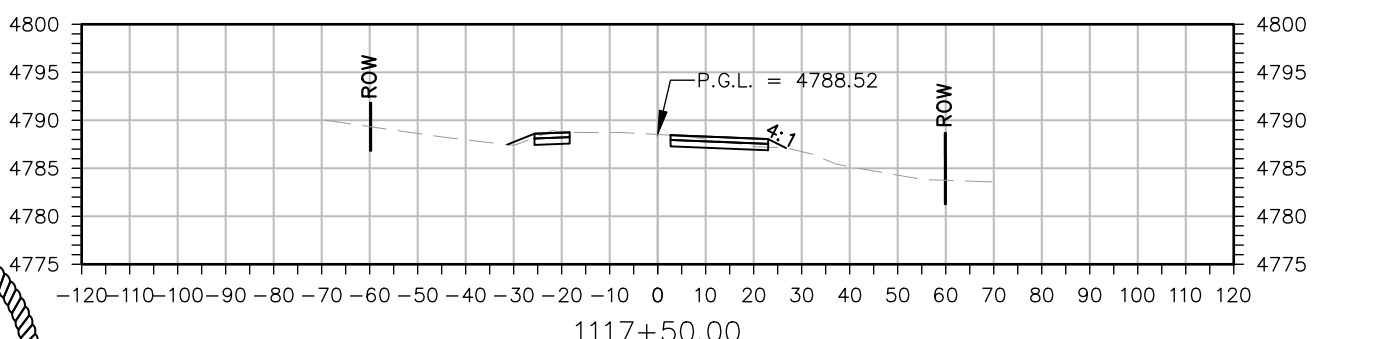
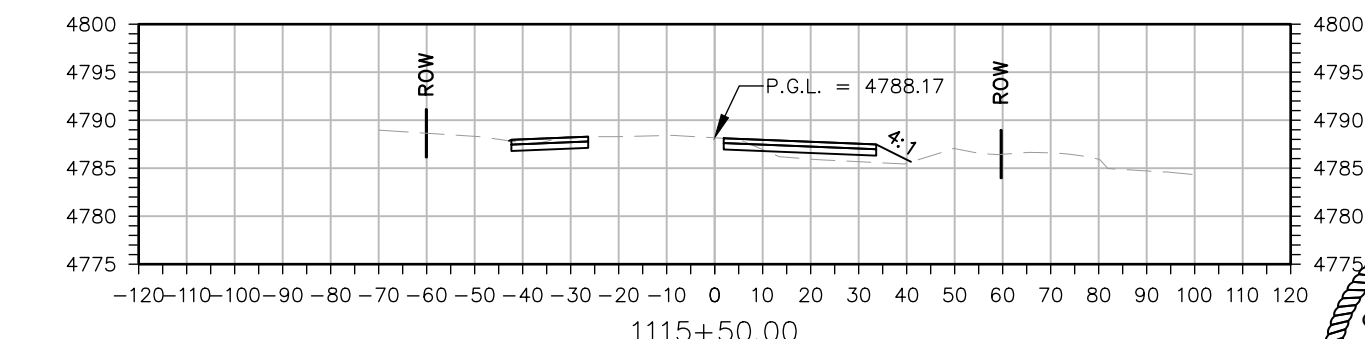
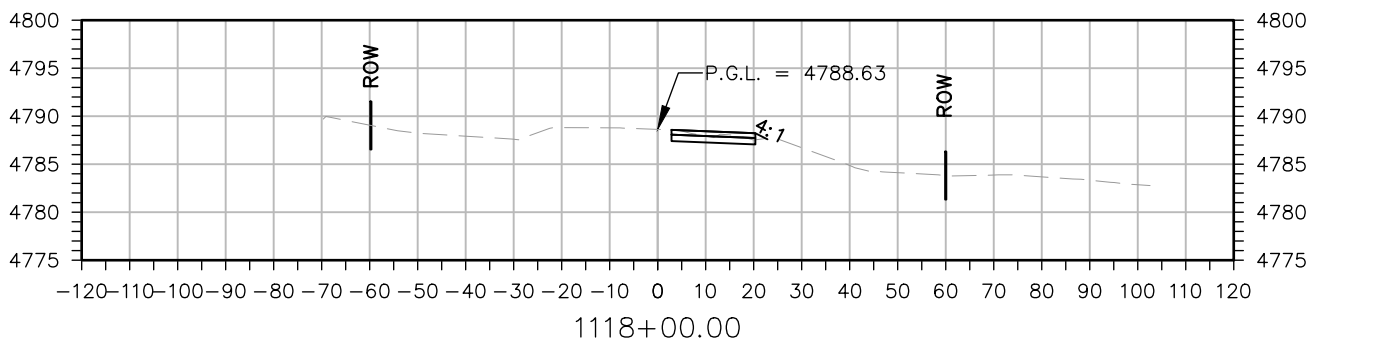
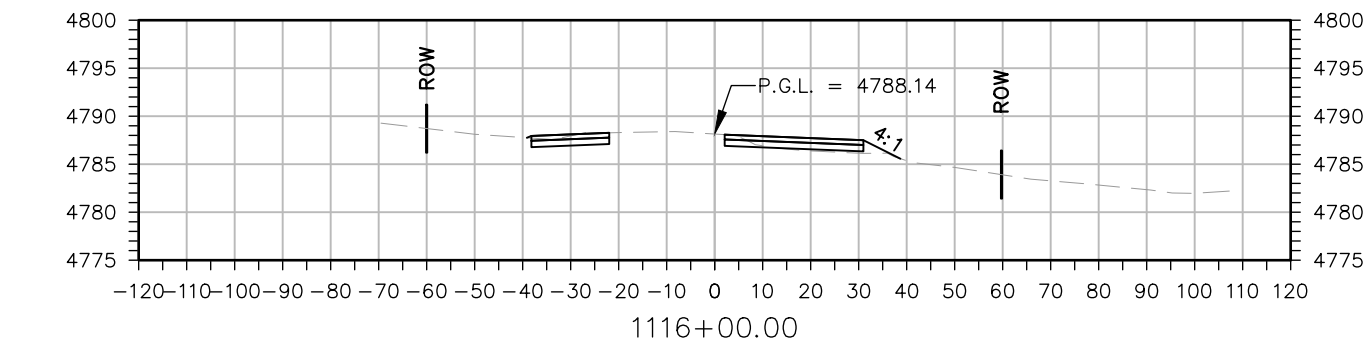
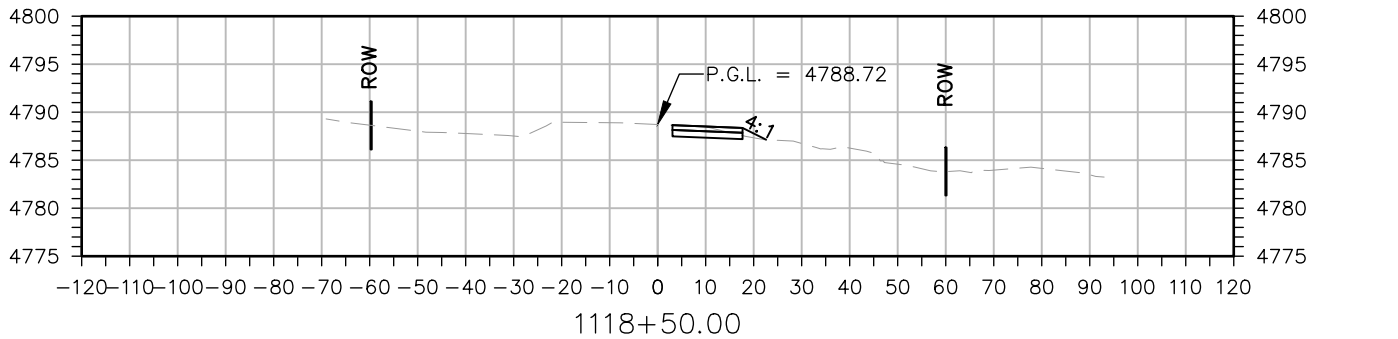
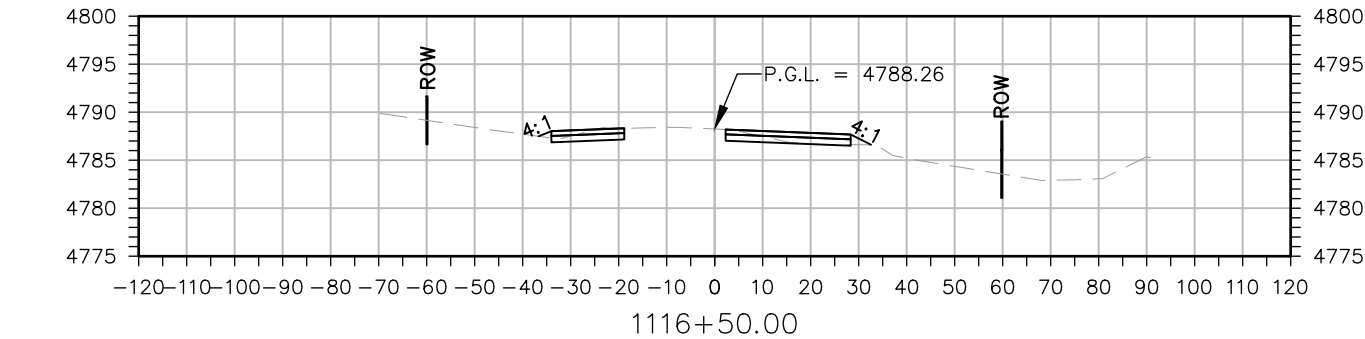
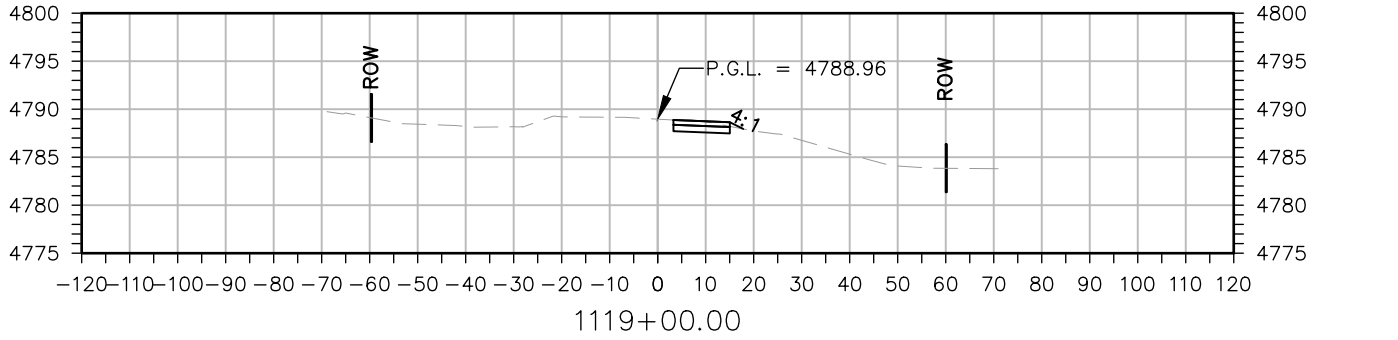
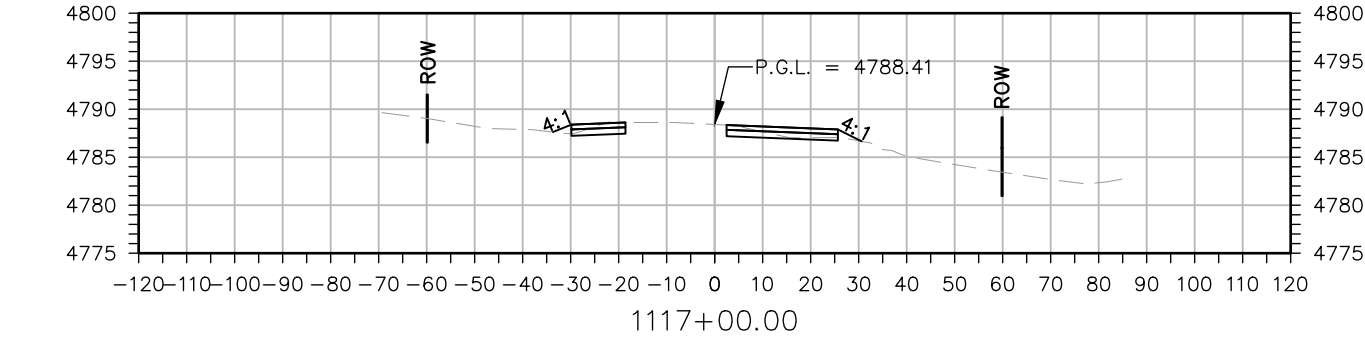
Sheet Revisions		
Date:	Comments	Init.



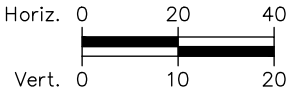
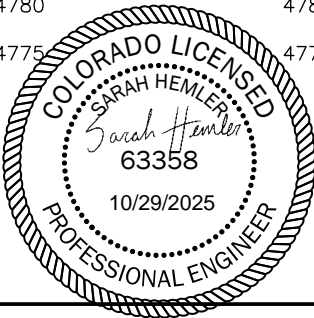
As Constructed	37TH STREET WIDENING PHASE 2A CROSS SECTIONS		Project No.
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Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number XS-006
Void:	Detailer: S. Hemler	Sheet Subset: X SECTIONS	Sheet Number 205
		Subset Sheets: 6 of 8	

FOR CONSTRUCTION 2/24/2024

Plot Date: 2/19/2024 10:28 AM Plotted By: Sarah Hemler  
P:\Q-PROJECTS\WYOMING PROJECTS\33001 EVANS 37TH ST AND 47TH AVE PLAN\2024 COMPUTER DESIGN FILES\P2 - PHASE 2A\802 SHEET FILES\XS P2A-001 CROSS SECTIONS.DWG

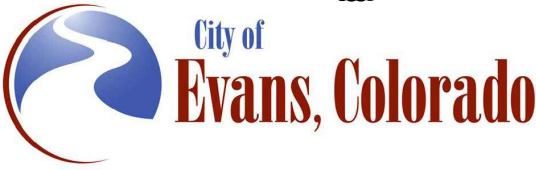


Know what's below.  
Call before you dig.



Print Date: 2/19/2024	
File Name: XS P2A-001 CROSS SECTIONS.DWG	
Horiz. Scale: As Noted	Vert. Scale: As Noted
	12076 Grant Street
	Thornton, CO 80241
	Ph: (303) 962-9300
Fax: (303) 962-9350	

Sheet Revisions		
Date:	Comments	Init.



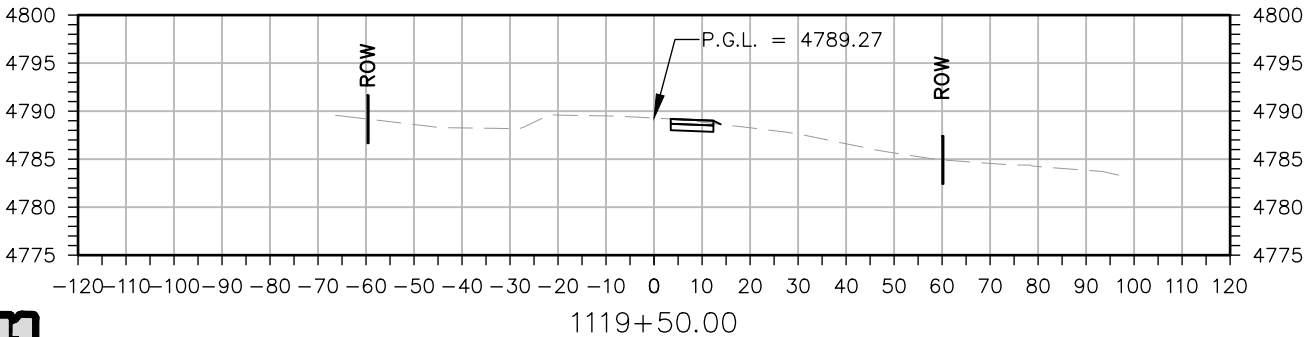
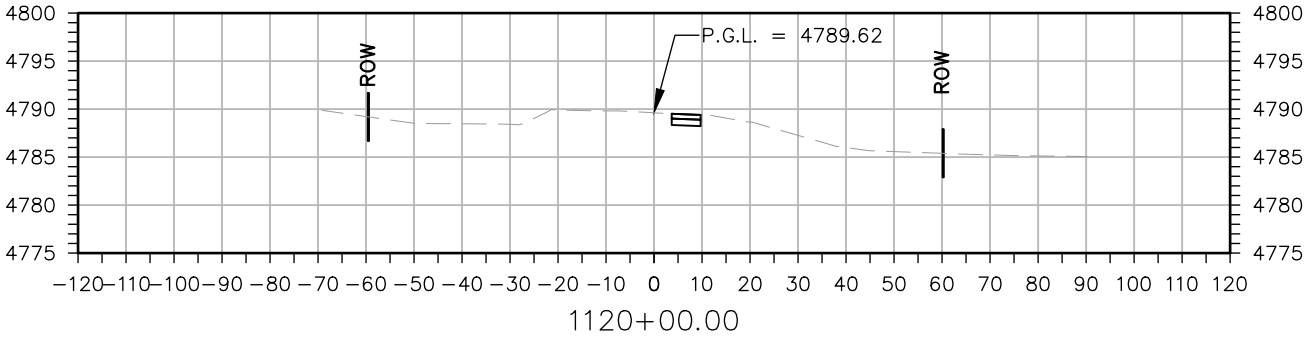
As Constructed	37TH STREET WIDENING PHASE 2A CROSS SECTIONS			Project No.
	No Revisions:			37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number XS-007	
Void:	Detailer: S. Hemler	Sheet Subset: X SECTIONS	Subset Sheets: 7 of 8	Sheet Number 206

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Plot Date: 2/19/2024 10:28 AM Plotted By: Sarah Hemler  
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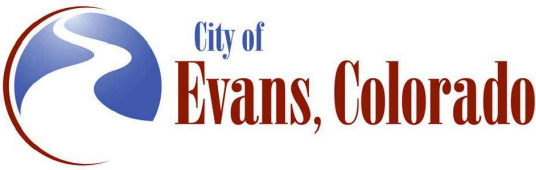
STA. 1120+36.00 END APPROACH TO PROJECT



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Print Date: 2/19/2024	
File Name: XS P2A-001 CROSS SECTIONS.DWG	
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	Ph: (303) 962-9300
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Sheet Revisions		
Date:	Comments	Init.



As Constructed	37TH STREET WIDENING PHASE 2A CROSS SECTIONS		Project No.
	No Revisions:		37TH STREET 2A
Revised:	Designer: T. Tuttle	Structure Numbers	Drawing Number XS-008
Void:	Detailer: S. Hemler	Sheet Subset: X SECTIONS	Sheet Number 207
		Subset Sheets: 8 of 8	

