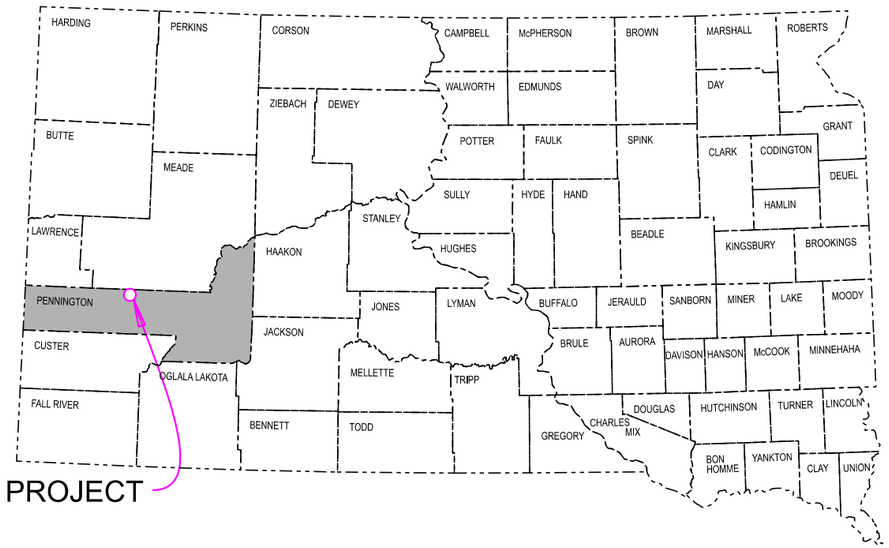
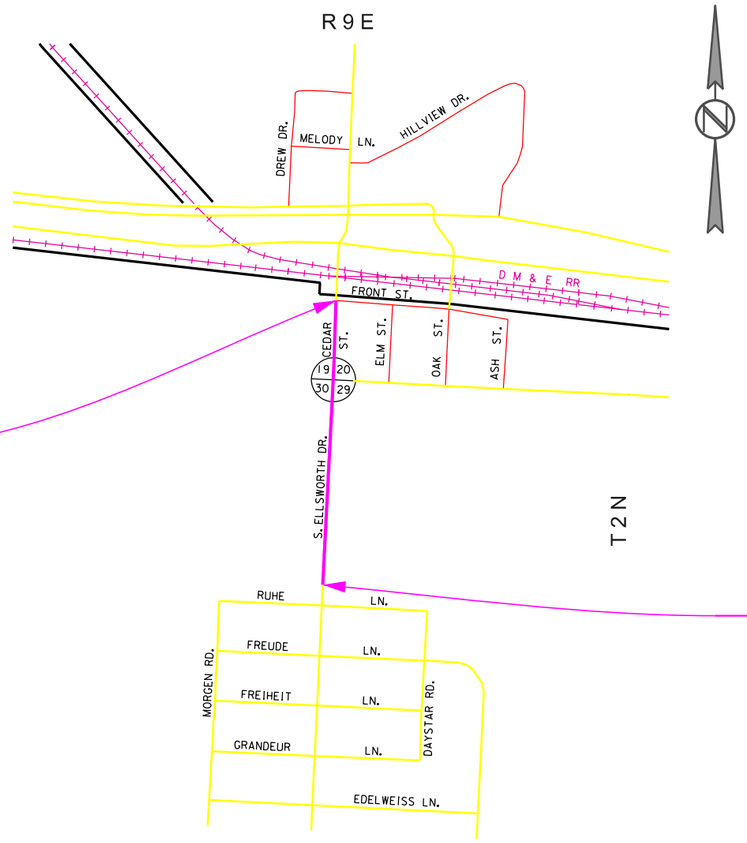


STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

PROJECT P TAPU(39)
PENNINGTON COUNTY

GRADING, SIDEWALK, PIPE CULVERTS
PCN 09FW



END P TAPU(39)
S Ellsworth Drive
Station 24+32 Located 19 feet
West and 508 feet north of the northeast
Corner of Section 30 - Township 2 North -
Range 9 East of the Black Hills P.M.

BEGIN P TAPU(39)
S Ellsworth Drive
Station 5+00 Located 62 feet
West and 1365 feet south of the northeast
Corner of Section 30 - Township 2 North -
Range 9 East of the Black Hills P.M.

FOR GRADING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	1	68

Plotting Date: 10/1/2026

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Sheet 40-41:	Fence & Wall Detail Sheets
Sheet 42-55:	Standard Plates
Sheet 56-68:	Cross Sections

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

STORM WATER PERMIT

Major Receiving	
Body of Water:	Box Elder Creek
Area Disturbed:	0.26 Acres
Total Project Area:	2.20 Acres
Approx. Begin Lat,Long:	44.1073, -103.0708

Gross Length	1932 Feet	0.366 Miles
Length of Exceptions	0 Feet	0 Miles
Net Length	2038 Feet	0.386 Miles

5

December 2, 2026

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

Non-Section Method

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4100	Construction Schedule, Category I	Lump Sum	LS
100E0020	Clear and Grub Tree	2	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	48	Ft
110E1010	Remove Asphalt Concrete Pavement	336.0	SqYd
110E1140	Remove Concrete Sidewalk	24.0	SqYd
110E1693	Remove Erosion Control Wattle	1,724	Ft
110E7150	Remove Sign for Reset	2	Each
110E7510	Remove Pipe End Section for Reset	1	Each
120E0010	Unclassified Excavation	723	CuYd
120E0600	Contractor Furnished Borrow	125	CuYd
120E2000	Undercutting	108	CuYd
230E0010	Placing Topsoil	319	CuYd
250E0020	Incidental Work, Grading	Lump Sum	LS
260E2010	Gravel Cushion	341.0	Ton
260E3010	Gravel Surfacing	72.0	Ton
260E3030	Gravel Surfacing, Salvaged	109.5	Ton
270E0112	Salvage Granular Material	109.5	Ton
320E1200	Asphalt Concrete Composite	89.0	Ton
380E3520	6" PCC Approach Pavement	123.0	SqYd
380E3540	8" PCC Approach Pavement	43.0	SqYd
450E3002	18" RCP Arch Class 2, Furnish	78	Ft
450E3010	18" RCP Arch, Install	78	Ft
450E4500	18" RCP Arch Flared End, Furnish	2	Each
450E4501	18" RCP Arch Flared End, Install	2	Each
450E5207	15" CMP Flared End, Furnish	2	Each
450E5208	15" CMP Flared End, Install	2	Each
450E5211	18" CMP Flared End, Furnish	2	Each
450E5212	18" CMP Flared End, Install	2	Each
450E7009	15" High Density Polyethylene Pipe, Furnish	10	Ft
450E7010	15" High Density Polyethylene Pipe, Install	10	Ft
450E7019	18" High Density Polyethylene Pipe, Furnish	28	Ft
450E7020	18" High Density Polyethylene Pipe, Install	28	Ft
450E7119	18" High Density Polyethylene Pipe Elbow, Furnish	1	Each
450E7120	18" High Density Polyethylene Pipe Elbow, Install	1	Each
450E9001	Reset Pipe End Section	1	Each
451E6080	Adjust Water Valve Box	6	Each
530E0410	MSE Segmental Block Wall	256	SqFt
621E0040	4' Chain Link Fence with Top Rail	57	Ft
632E3500	Reset Sign	2	Each
634E0010	Flagging	250.0	Hour
634E0110	Traffic Control Signs	275.5	SqFt

Non-Section Method

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E2000	Longitudinal Pedestrian Barricade	14	Ft
650E2100	Special Concrete Curb and Gutter	5	Ft
650E4360	Type D46 Concrete Curb and Gutter	130	Ft
650E4660	Type P6 Concrete Gutter	77	Ft
651E0040	4" Concrete Sidewalk	8,329	SqFt
651E0060	6" Concrete Sidewalk	291	SqFt
651E7000	Type 1 Detectable Warnings	20	SqFt
671E7010	Adjust Manhole	3	Each
730E0206	Type D Permanent Seed Mixture	140	Lb
732E0250	Fiber Mulching	1,381	Lb
734E0103	Type 3 Erosion Control Blanket	289	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,724	Ft
734E5010	Sweeping	4	Hour



ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf >

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT C: WATER SOURCE

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website:
https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:
< https://sdleastwanted.sd.gov/maps/default.aspx >

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:
< https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04 >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

The Box Elder Creek is classified as warm water, marginal fishery with a total suspended solids standard of less than 150 mg/L 30-day average, less than 263 mg/L daily maximum and that supports fish and wildlife propagation and irrigation.

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

Action Taken/Required:

The Contractor is advised that the South Dakota Surface Water Quality Standards, administered by the South Dakota Department of Agriculture and Natural Resources (DANR), apply to this project. Special construction measures will be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance and/or work in a waterway.

Action Taken/Required:

The DANR General Permit for Stormwater Discharges Associated with Construction Activities is required for construction activity disturbing one or more acres of earth and work in a waterway. The SDDOT is the owner of this permit and will submit the NOI to DANR 15 days prior to project start in order to obtain coverage under the General Permit. Work can begin once the DANR letter of approval is received.

The Contractor must adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State."

The Contractor will complete the DANR Contractor Certification Form prior to the pre-construction meeting. The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the permit for this project. Work may not begin on this project until this form is signed and submitted to DANR.

The form can be found at:
<
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAppendixCCA2018Fillable.pdf >

The Contractor is advised that permit coverage may also be required for off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

Storm Water Pollution Prevention Plan

The Storm Water Pollution Prevention Plan (SWPPP) will be developed prior to the submittal of the NOI and will be implemented for all construction activities for compliance with the permit. The SWPPP must be kept on-site and updated as site conditions change. Erosion control measures and best management practices will be implemented in accordance with the SWPPP.

The DOT 298 Form will be used for site inspections and to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents and retained for a minimum of three years.

The inspection will include disturbed areas of the construction site that have not been finally stabilized, areas used for storage materials, structural control measures, and locations where vehicles enter or exit the site. These areas will be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWPPP will be observed to ensure that they are operating correctly, and sediment is not tracked off the site.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT: < https://dot.sd.gov/doing-business/environmental/stormwater >

DANR:<
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/default.aspx >

EPA: < https://www.epa.gov/npdes >



COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, “No Dumping Allowed”.

2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.
Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COMMITMENT M: SECTION 4(f)/6(f) RESOURCES

COMMITMENT M1: SECTION 4(f) PROPERTY

A Section 4(f) Evaluation concluded there are no feasible and prudent alternatives to avoiding Section 4(f) property located within the project.

Table of Section 4(f) Property

Station	Section 4(f) Property
18+75 to 24+50L	Box Elder Ball Park

The use of the Section 4(f) property is solely for the purposes of preserving or enhancing an activity, feature, or attribute that qualifies the property for Section

The Contractor is not permitted to stage equipment or materials within Box Elder Ball Park. The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.

COMMITMENT M2: SECTION 6(f) PROPERTY

A Section 6(f) property has been identified within the project area.

Table of Section 6(f) Property

Station	Section 4(f) Property
18+75 to 24+50L	Box Elder Ball Park

Action Taken/Required:

Land temporarily occupied by construction identified in the Table of 6(f) Properties will be fully restored by the conclusion of the project;

The Contractor is not permitted to stage equipment or materials within Box Elder Ball Park. The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 6(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 6(f) property.

REGISTERED PROFESSIONAL ENGINEER
REG. NO
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work.

UTILITIES

The Contractor will contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It will be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

The Contractor will be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor will contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

PLACING TOPSOIL

Prior to construction operations, 4" of topsoil within the project limits will be salvaged per Section 230.3 for Placing Topsoil over disturbed areas to be seeded. The volume of Salvaged Topsoil is shown as Topsoil in the Table of Excavation Quantities & Unclassified Excavation.

The thickness of Topsoil placed on disturbed areas will be approximately 4 inches within the right-of-way and 6 inches on temporary easements. Placing Topsoil will not be measured for payment but will be paid for as plan quantity.

An estimated 10 Cubic Yards of Salvaged Topsoil is expected to not be used for Placing Topsoil and is listed as Excess Topsoil in the Table of Excavation Quantities & Unclassified Excavation for use as embankment.

The estimated amount of topsoil to be placed is as follows:

Station	to	Station	Topsoil (CuYd)
5+00		13+15	142
13+15		18+68	91
18+92		22+40	74
23+04		24+32	12
		Total:	319

PROCEDURES FOR DETERMINING UNCLASSIFIED EXCAVATION AND UNDERCUTTING QUANTITY

Unclassified Excavation and Undercutting will not be measured for payment but will be paid for as plan quantity and the plans quantity of Topsoil and salvaged surfacing items listed in the Table of Excavation Quantities & Unclassified Excavation will not be adjusted according to field measurements.

Unclassified Excavation will include all excavation, embankment and shaping required for the sidewalk installation.

In all cut sections the earthen subgrade will be undercut 0.5 foot below the earthen subgrade surface. The undercut material or other suitable material, as directed by the Engineer, will then be replaced and compacted to the density specified for the section being constructed.

SHRINKAGE FACTOR: Embankment +30%

TABLE OF EXCAVATION QUANTITIES & UNCLASSIFIED EXCAVATION

	Quantity (CuYd)
** Topsoil (4" Depth)	329
** Salvage 4" Granular Material	58
** Excavation	228
* Undercut	108
Unclassified Excavation Total	**723**
** Embankment (With 30% Shrink)	330
** Undercut Shrinkage (30% Shrink)	33
Embankment Total	**363**
** Excavation	228
** Excess Topsoil	10
* Contractor Furnished Borrow Excavation	125
Excavation Total	**363**

* The quantities for these items are in the Estimate of Quantities under their respective contract items.
** The quantities for these items are for information only.

TABLE OF UNDERCUTTING QUANTITIES URBAN

Station	to	Station	Description	Quantity (CuYd)
6+30		8+40	S. Ellsworth	17.2
8+40		13+00	S. Ellsworth	30.3
13+65		18+30	S. Ellsworth	28.1
18+97.61		22+22.29	S. Ellsworth	21.4
23+09.29		24+32.02	S. Ellsworth	11.2
		Total:		108.2

CONTRACTOR FURNISHED BORROW EXCAVATION

The Contractor will provide a suitable site for Contractor furnished borrow excavation material. The Contractor is responsible for obtaining all required permits and clearances for the borrow site. The borrow material will be approved by the Engineer. The plans quantity for "Contractor Furnished Borrow Excavation" as shown in the Estimate of Quantities will be the basis of payment for this item.

Restoration of the Contractor furnished borrow excavation site will be the responsibility of the Contractor.

INCIDENTAL WORK, GRADING

Station	L/R	*Remarks*
23+64	L	Remove Pipe
23+90	L	Reset wood wheel stops



REMOVE ASPHALT CONCRETE PAVEMENT

An estimated 336 Square Yards of the in-place asphalt concrete surfacing will be removed from the existing roadway according to the proposed surfacing typical sections and wasted as directed by the Engineer. Care will be taken not to waste the in-place granular material. The remaining in-place granular material will be salvaged and stockpiled.

The quantity of asphalt removed material is estimated from the in-place surfacing typical sections. This estimated quantity is not included in the unclassified excavation quantities.

TABLE OF ASPHALT CONCRETE PAVEMENT REMOVAL

Station	to	Station	L/R	Quantity (SqYd)
5+00		6+35	L/R	205.2
18+31		19+07	R	59.7
22+20		23+05	L/R	71.1
			Total:	336.0

TABLE OF SIDEWALK REMOVAL

Station	to	Station	L/R	Quantity (SqYd)
5+00		5+56	L	24
			Total:	24

TABLE OF CONCRETE CURB AND/OR GUTTER REMOVAL

Station	to	Station	L/R	Quantity (Ft)
5+00		5+48.0	R	48
			Total:	48

TABLE FOR ADJUSTMENT OF WATER VALVES

Station	Adjustment
18+45	3"
18+95	6"
19+00	6"
19+05	6"
19+05	3"
22+05	3"

INTERSECTING ROADS AND ENTRANCES

In areas where granular material has been placed adjacent to the existing asphalt concrete, the Contractor will be required to remove the granular material to a depth below the existing asphalt concrete to allow for the placement of the new asphalt concrete. New asphalt concrete will be placed flush with the existing asphalt concrete. The existing granular material removed will be placed on the entrances, intersecting roads or other locations as directed by the Engineer.

All costs to remove and place the granular material including labor, equipment and incidentals will be incidental to the various related contract items.

SALVAGE GRANULAR MATERIAL

The existing granular material will be removed (estimated depth of 4" of surfacing). The roadway surface will be shaped to allow for placement of the new surfacing.

Cost for the shaping which includes placing the existing granular material and compacting the granular material will be incidental to the contract unit price per ton for "Gravel Surfacing, Salvaged". The existing granular material removed will be placed on entrances and intersecting roads as directed by the Engineer.

CORRUGATED METAL PIPE

Corrugated metal pipes will have 2 ⅔-inch x ½-inch corrugations for 42-inch and smaller round pipe and 48-inch and smaller arch pipe unless otherwise stated in the plans. Corrugated metal pipes will have 3-inch x 1-inch or 5-inch x 1-inch corrugations for 48-inch and larger round pipe and 54-inch and larger arch pipe unless otherwise stated in the plans.

PIPE COVER

The earthen subgrade cover for some pipe installations is less than one foot. The Contractor will take the necessary precautions to ensure the structural properties of the pipes are not damaged after installation and prior to the placement of final surfacing. Any additional costs for preventing damage to these pipes will be incidental to the contract unit price per foot for the corresponding pipe installation contract item.

ADJUSTMENT OF MANHOLES

The Contractor will adjust manholes to the extent necessary on this project. Modifying the manholes may consist of removing the upper course of brick or removing the concrete walls, replacing the removed materials with brick or Class M6 concrete, placing adjusting rings if necessary, and resetting the manhole frame and lid. The elevation of the lid will be set at the same elevation of the adjacent new pavement or surrounding ground. All manhole frames, lids, and rings that are cracked or broken due to carelessness of the Contractor will be replaced with new manhole frames, lids, and rings that conform with the Specifications at the Contractor's expense. Manholes will be adjusted to the satisfaction of the Engineer. All costs involved in adjusting the manholes will be incidental to the contract unit price per each for "Adjust Manhole".

The Engineer may direct adjustment of manholes that were not included in these plans. Payment for adjusting manholes that were not included in the plans will be at the contract unit price per each for "Adjust Manhole".

WATER FOR COMPACTION

The cost of water for compaction of the granular material will be incidental to the various other contract items. A minimum of 4% moisture will be required at the time of compaction unless otherwise directed by the Engineer.



CONCRETE SIDEWALK

The concrete sidewalk will be constructed in accordance with Section 651.

Due to the extra depth required, the granular cushion material required, as per the typical sections, will be paid for separately at the contract unit price per ton for Gravel Cushion. The gravel cushion will meet the requirements of Section 882. Compaction will be to the satisfaction of the Engineer.

TABLE OF 4" CONCRETE SIDEWALK

Station	to	Station	L/R	Quantity (SqFt)
5+00		5+60	L	300
6+00		8+40	L	1,200
8+40		13+00	L	2,300
13+65		17+20	L	1,775
17+60		18+42.35	L	412
18+97.61		22+22.29	L	1,477
22+27.29		23+04.29	L	385
23+09.29		24+32.02	L	480
			Total:	8,329

TABLE OF 6" CONCRETE SIDEWALK

Station	to	Station	L/R	Quantity (SqFt)
18+42.35		18+67.24	L	131
18+91.74		18+96.74	L	25
23+09.29		23+31.29	L	135
			Total:	291

TYPE 1 DETECTABLE WARNINGS

Detectable warnings will be in compliance with the Americans with Disabilities Act regulations.

The detectable warnings will be installed according to the manufacturer's installation instructions.

A concrete thickness equal to the adjacent concrete sidewalk thickness and 2 inches of granular cushion material will be placed below the Type 1 Detectable Warnings. When concrete is placed below the detectable warnings then the concrete thickness will be transitioned at the rate of 1" per foot to match the adjacent concrete sidewalk thickness.

The detectable warnings will be a brick red color for application in concrete curb ramps. Cast iron plates may be a natural patina (weathered steel).

Type 1 Detectable Warnings

Product	Manufacturer
Detectable Warning Plate Cast Iron	Neenah Foundry Company Neenah, WI 800-558-5075 https://neenahfoundry.com/
DURALAST Detectable Warning Plate Cast Iron (No Coating)	EJ USA East Jordan, MI 800-626-4653 https://www.ejco.com/
Iron Dome Detectable Warning Plate Cast Iron	ADA Solutions Jefferson, Ohio 800-372-0519 https://adatile.com
TufTile (wet-set) Cast Iron Replaceable Tile	TufTile Lake Zurich, IL 888-960-8897 https://tuftile.com/
Advantage Tactile Detectable Warning Plate Cast Iron	Advantage Tactile Systems Elgin, IL 844-697-2920 https://advantagetactile.com/
TufTile (wet-set) Polymer Replaceable Tile	TufTile Lake Zurich, IL 888-960-8897 https://tuftile.com/
AlertCast Composite Replaceable Cast in Place	Detectable Warning Systems Wilmington, NC 866-999-7452 https://detectable-warning.com/
Detectable Warning Panel Replaceable Wet-Set Composite	ADA Solutions Jefferson, Ohio 800-372-0519 https://adatile.com
Access Tile Composite Replaceable Cast in Place	Access Tile Elgin, IL 844-697-2920 https://accesstile.com/
Armor-Tile Detectable Warning Tile Composite Replaceable Cast in Place	Armor-Tile Elgin, IL 844-697-2920 https://armor-tile.com/
TufTile (10 Gauge) Galvanized Steel Powder Coated Replaceable Tile	TufTile Lake Zurich, IL 888-960-8897 https://tuftile.com/

TABLE OF TYPE 1 DETECTABLE WARNINGS

Station	L/R	Quantity (SqFt)
18+66.74	2.5' L	10
18+92.74	2.5' L	10
	Total:	20

TABLE OF SALVAGED MATERIAL UTILIZATION

	Gravel Surfacing, Salvaged	Excess Material	Total
	Tons	tons	tons
Salvage Material Granular	109.5	0	0
Total =	109.5	0	



SURFACING THICKNESS DIMENSIONS

At those locations where material must be placed to achieve a required elevation, the depth/quantity may be varied to achieve the required elevation.

ASPHALT CONCRETE COMPOSITE

Plans specified locations for Asphalt Concrete Composite will be paid for at the contract unit price per ton for "Asphalt Concrete Composite".

Asphalt for Prime and SS-1h or CSS-1h asphalt for tack will not be needed prior to the placement of the bottom lift of Asphalt Concrete Composite placed on a granular surface.

SS-1h or CSS-1h Asphalt for Tack will be applied at a rate of 0.09 gallons per square yard on existing pavement or milled asphalt concrete surfaces and at a rate of 0.06 gallons per square yard on new asphalt concrete pavement. The asphalt for tack will be applied for the full width of the subsequent or additional or proceeding layers of Asphalt Concrete Composite plus one-half foot additional on the outside shoulder or the width of the Asphalt Concrete Composite lift in areas with curb and gutter.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

Portable sign supports will not be located on sidewalks, bicycle facilities, or other areas designated for pedestrian or bicycle traffic.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.

All haul trucks will be equipped with an additional flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

At no time will a vertical drop-off of greater than 3 inches be left overnight adjacent to the traveled way. The Contractor will utilize embankment material to ensure a 3-inch vertical drop-off is not exceeded. The slope of the embankment material will not be steeper than a 4:1 within 30 feet of the traveled way.

Traffic will be maintained on the driving lanes. Use of the shoulder as a driving lane will not be permitted. Any damage to the shoulder due to rerouted traffic or Contractor's equipment will be repaired at no expense to the Department.

The Contractor will notify businesses/homeowners a minimum of two weeks prior to construction to inform them of upcoming construction and again a minimum of 48 hours prior to any blocked access to make appropriate arrangements.

LONGITUDINAL PEDESTRIAN BARRICADE

Longitudinal pedestrian barricades should not be used to provide positive protection for pedestrians.

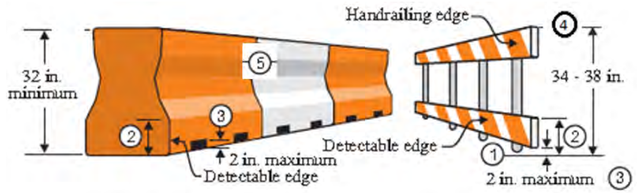
To prevent any tripping hazard to pedestrians, ballast will be located behind or internal to the device.

When longitudinal pedestrian barricades are combined in a series, the maximum gap between devices that do not interlock will be one inch. Joints between devices that do interlock will be closed and flush to prevent canes or small wheels from being trapped and to facilitate safe hand trailing. When used as a sidewalk closure mechanism, longitudinal pedestrian barricade must run the entire width of the sidewalk. Longitudinal pedestrian barricade should provide a color contrasting pattern. Black should not be used to color any base on a device. The devices should comply with the general color and stripe pattern requirements of Section 6F.68 of the MUTCD.

Longitudinal pedestrian barricade will have continuous bottom and top surfaces. The top surface will be smooth to allow safe hand trailing. Both upper and lower surfaces will share a common vertical plane.

All costs will be incidental to the contract unit price per foot for "Longitudinal Pedestrian Barricade".

PEDESTRIAN CHANNELIZING DEVICE DETAILS



Longitudinal Pedestrian Barrier — Longitudinal Pedestrian Barricade

1. Barricade rail supports may not extend into the pedestrian walkway more than 4 inches from the face of the barricade.
2. The top edge of the bottom portion will be a minimum of 8 inches above the walkway.
3. Devices will not block water drainage from the walkway. A gap height or opening from the walkway surface up to a maximum of 2 inches in height is allowed for drainage purposes.
4. The top edge of the longitudinal pedestrian barricade is to be used as a guiderail to provide visual and tactile guidance to pedestrians along a designated route. The top surface should have a minimum width of 0.5 inches to allow the hand to feel the surface. The surface should be smooth and free of any sharp or abrasive elements to allow safe hand trailing.

Longitudinal pedestrian barrier used to provide positive protection from traffic to pedestrians should be crashworthy.

MYCORRHIZAL INOCULUM

Mycorrhizal inoculum will consist of mycorrhizal fungi spores and mycorrhizal fungi-infected root fragments in a solid carrier. The carrier may include organic materials, calcinated clay, or other materials consistent with application and good plant growth. The supplier will provide certification of the fungal species claimed and the live propagule count. The inoculum will include a minimum 25% the fungal species *Rhizophagus intraradices*. The remaining 75% may include other endomycorrhizal fungal species.

All seed will be inoculated by the seed supplier with a minimum of 20,000 live propagules of mycorrhizal fungi per 1,000 square feet. All costs of inoculating the seed will be incidental to the contract unit price per pound for the corresponding permanent seed mixture.

The Mycorrhizal Inoculum provided will be from the approved product list. The approved product list may be viewed at the following internet site:

http://apps.sd.gov/HC60ApprovedProducts/main.aspx

FERTILIZING

Application of fertilizer will not be required on this project.

PERMANENT SEEDING

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways and temporary easements under cultivation.

Lawn and turf seed, such as the Type D Permanent Seed Mixture, will be tested within 12 months prior to planting, exclusive of the calendar month in which the test was completed.

Type D Permanent Seed Mixture will consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/1000 SqFt)
Kentucky Bluegrass	Avalanche, Appalachian, Wildhorse, Blue Bonnet, Action	1.4
Perennial Ryegrass	Turf Type Varieties	1.4
Creeping Red Fescue	Epic, Boreal, Chantilly	1.4
Chewings Fescue	Ambrose, K2, Zodiac, Shadow III	1.4
Alkali Grass	Fults, Fults II, Quill, Salty	1.4
	Total:	7

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FIBER MULCHING

Fiber mulch will be applied in a separate operation following permanent seeding.

An additional 2% by weight of tackifier will be added to the fiber mulch product selected from the approved product list. If the product selected has guar gum tackifier included, then the additional 2% of tackifier will be guar gum. If the product selected has synthetic tackifier included, then the additional 2% of tackifier will be synthetic.

Fiber mulch will be applied at the rate of 3,000 pounds per acre.

The Contractor will allow the fiber mulch to cure a minimum of 18 hours prior to watering or any storm event to ensure proper cohesion between the soil and fiber particles.

All costs for the additional tackifier added to the fiber mulch including labor, equipment, and materials will be incidental to the contract unit price per pound for “Fiber Mulching”.

The fiber mulch provided will be from the approved product list. The approved product list for fiber mulch may be viewed at the following internet site:

http://apps.sd.gov/HC60ApprovedProducts/main.aspx

EROSION CONTROL WATTLE

Erosion control wattles for restraining the flow of runoff and sediment will be installed at locations noted in the plans and at locations determined by the Engineer during construction. Refer to Standard Plate 734.06 for details.

The Contractor will provide certification that the erosion control wattles do not contain noxious weed seeds.

Erosion control wattles will remain on the project until vegetation has been established and then they will be removed in accordance with the Engineer.

The erosion control wattle provided will be from the approved product list. The approved product list for erosion control wattle may be viewed at the following internet site:

http://apps.sd.gov/HC60ApprovedProducts/main.aspx

HIGH FLOW SILT FENCE

The high flow silt fence fabric provided will be from the approved product list. The approved product list for high flow silt fence may be viewed at the following internet site:

http://apps.sd.gov/HC60ApprovedProducts/main.aspx

High flow silt fence will be placed at the locations noted in the plans and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.05 for details.

EROSION CONTROL BLANKET

Erosion control blanket will be installed at the locations noted in the plans and at locations determined by the Engineer during construction.

The erosion control blanket provided will be from the approved product list. The approved product list for erosion control blanket may be viewed at the following internet site:

http://apps.sd.gov/HC60ApprovedProducts/main.aspx

SHAPING FOR EROSION CONTROL BLANKET

The ditches will be shaped for the erosion control blanket as specified on Standard Plate 734.01.

STREET SWEEPING

Vehicle tracking of sediment from the construction site will be minimized. Street sweeping will be used if erosion and sediment control best management practices are not adequate to prevent sediment from being tracked onto the street.

The Contractor will use a pickup broom having integral self-contained storage to clean the roadway. The pickup broom used will be a minimum of 6 feet wide and have working gutter brooms.

At a minimum, sweeping will be required:
1. Prior to opening any segment or roadway to traffic.
2. When sawing operations are underway in the inside driving lanes, the outside driving lanes and gutter may need to be swept to control dust.

All costs for cleaning the roadway with a pickup broom will be incidental to the contract unit price per hour for “Sweeping”.

REMOVE SIGN FOR RESET AND RESET SIGN

Signs that are scheduled for reset will be dismantled and reassembled to the extent needed by the Contractor to properly reset the sign. Signs will be handled with care so that the existing signs, posts, and bases are not damaged during the relocation process. The Contractor will replace and pay for any reset signs damaged in their care. The Contractor will remove and dispose of any existing posts for all reset signs that require use of new posts as shown on the plan sheets.

All costs for removing, dismantling, and disposing of any existing posts will be incidental to the contract unit price per each for “Remove Sign for Reset”. All costs for resetting the existing signs will be incidental to the contract unit price per each for “Reset Sign”. All quantities for Remove Sign for Reset and Reset Sign will be per assembly at the contract unit price per each.

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SIGN QUANTITIES

Station	Offset (L/R)	Sign Code	Sign Description	Reset Sign
				Each
15+30.00	-6.0L	W14-2	No Outlet	1
16+90.00	-6.0L	R2-1	Speed Limit 25	1
Subtotal:				2

PIPE QUANTITIES

Station	Offset (L/R)	Remove Pipe Culvert	Remove Pipe End Section for Reset	Reset Pipe End Section	Reinforced Concrete		Corrugated Metal		High Density Polyethylene		
		RCP	HDPE	HDPE	Arch	Arch Flared End	Circular Flared End		Circular		Elbow
		18"	18"	18"	18" Cl. 2	18"	15"	18"	15"	18"	18" 45°
		Ft	Each		Ft	Each	Each	Each	Ft	Ft	Each
7+90.00	-9.00' L to 7+90.00	-3.00' R								12	
18+93.49	-0.54' L to 18+97.39	-13.13' R								16	1
18+90.00	-4.0R		1	1							
22+18.73	-0.17' R to 23+12.29	-0.93' L			78	2					
22+32.00	-6.0L to 22+96.00	-6.0L	65								
23+49.00	-7.50' L to 23+49.00	-2.50' R					2		10		
Subtotal:			65	1		78	2	2	2	10	28	1

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STORMWATER POLLUTION PREVENTION PLAN CHECKLIST

*(The numbers left of the title headings are **reference numbers** to the GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES (Stormwater Permit))*

5.3 (2): STAFF TRAINING/SWPPP IMPLEMENTATION

To promote stormwater management awareness specific for this project, the Contractor's Erosion Control Supervisor should provide correspondence of how the SWPPP will be implemented. The Contractor's Erosion Control Supervisor is responsible for providing this information at the preconstruction meeting, and subsequently completing an attendance log, which should identify site-specific implementation of the SWPPP and the names of the personnel who attended the preconstruction meeting. Documentation of the preconstruction meeting will be filed with the SWPPP documents.

5.3 (3): DESCRIPTION OF CONSTRUCTION ACTIVITIES

- **5.3 (3a): Project Limits** (See Title Sheet)
- **5.3 (3a): Project Description** (See Title Sheet)
- **5.3 (4): Site Map(s)** (See Title Sheet and Plans)
- **Major Soil Disturbing Activities** (check all that apply)
  - ☒ Clearing and grubbing
  - ☒ Excavation/borrow
  - ☒ Grading and shaping
  - ☐ Filling
  - ☐ Other (describe):
- **5.3 (3b): Total Project Area**
- **5.3 (3b): Total Area to be Disturbed**
- **5.3 (3c): Maximum Area Disturbed at One Time**
- **5.3 (3d): Existing Vegetative Cover (%)**
- **5.3 (3d): Description of Vegetative Cover**

- **5.3 (3e): Soil Properties:** AASHTO Soil or USDA-NRCS Soil Series Classification
- **5.3 (3f): Name of Receiving Water Body/Bodies**
  Box Elder Creek
- **5.3 (3g): Location of Construction Support Activity Areas**

5.3 (3h): ORDER OF CONSTRUCTION ACTIVITIES

The Contractor will enter the Estimated Start Date.

Description	Estimated Start Date
Install stabilized construction entrance(s).	
Install perimeter protection where runoff may exit site.	
Install perimeter protection around stockpiles.	
Install channel and ditch bottom protection.	
Clearing and grubbing.	
Remove and stockpile topsoil.	
Stabilize disturbed areas.	
Install utilities, storm sewers, curb and gutter.	
Install inlet and culvert protection after completing storm drainage and other utility installations.	
Final grading.	
Final paving.	
Removal of protection devices.	
Reseed areas disturbed by removal activities.	

5.3 (5): DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES

All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report. Include the technical reasoning for selecting each control. (check all that apply)

Perimeter Controls (See Detail Plan Sheets)

Description	Estimated Start Date
☐ Natural Buffers (within 50 ft of Waters of State)	
☒ Silt Fence	
☒ Erosion Control Wattles	
☐ Temporary Berm / Windrow	
☐ Floating Silt Curtain	
☐ Stabilized Construction Entrances	
☐ Entrance/Exit Equipment Tire Wash	
☐ Other:	

Structural Erosion and Sediment Controls

Description	Estimated Start Date
☒ Silt Fence	
☐ Temporary Berm/Windrow	
☒ Erosion Control Wattles	
☐ Temporary Sediment Barriers	
☐ Erosion Bales	
☐ Temporary Slope Drain	
☐ Turf Reinforcement Mat	
☐ Riprap	
☐ Gabions	
☐ Rock Check Dams	
☐ Sediment Traps/Basins	
☐ Culvert Inlet Protection	
☐ Transition Mats	
☐ Median/Area Drain Inlet Protection	
☐ Curb Inlet Protection	
☐ Interceptor Ditch	
☐ Concrete Washout Facility	
☐ Work Platform	
☐ Temporary Water Barrier	
☐ Temporary Water Crossing	
☐ Permanent Stormwater Ponds	
☐ Permanent Open Vegetated Swales	
☐ Natural Depressions to allow for Infiltration	
☐ Sequential Systems that combine several practices	
☐ Other:	

Dust Controls

Description	Estimated Start Date
☐ Tarps & Wind impervious fabrics	
☐ Watering	
☐ Stockpile location/orientation	
☐ Dust Control Chlorides	
☐ Other	

Dewatering BMPs

Description	Estimated Start Date
☐ Sediment Basins	
☐ Dewatering bags	
☐ Weir tanks	
☐ Temporary Diversion Channel	
☐ Other:	

Stabilization Practices (See Detail Plan Sheets)

(Stabilization measures will begin the following work day whenever earth disturbing activity on any portion of the site has temporarily or permanently ceased. Temporary stabilization will be completed as soon as practicable but no later than 14 days after initiating soil stabilization activities (**3.18**))

Description	Estimated Start Date
☐ Vegetation Buffer Strips	
☐ Temporary Seeding (Cover Crop Seeding)	
☒ Permanent Seeding	
☐ Sodding	
☐ Planting (Woody Vegetation for Soil Stabilization)	
☐ Mulching (Grass Hay or Straw)	
☒ Fiber Mulching (Wood Fiber Mulch)	
☐ Soil Stabilizer	
☐ Bonded Fiber Matrix	
☐ Fiber Reinforced Matrix	
☒ Erosion Control Blankets	
☐ Surface Roughening (e.g. tracking)	
☐ Other:	

Wetland Avoidance

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes ☐ No ☒ If yes, the structural and erosion and sediment controls have been included in the total project wetland impacts and have been included in the 404 permit process with the USACE.

5.3 (6): PROCEDURES FOR INSPECTIONS

- Inspections will be conducted at least once every 7 days.
- All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.
- Silt fence will be inspected for depth of sediment and for tears to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches 1/3 of the height of the silt fence.
- Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction.
- Check dams will be inspected for stability. Sediment will be removed when depth reaches ½ the height of the dam.
- All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations.
- Inspection and maintenance reports will be prepared on form DOT 298 for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents.
- The Project Engineer and Contractor's Erosion Control Supervisor are responsible for inspections. Maintenance and repair activities are the responsibility of the Contractor. The Project Engineer will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

5.3 (7): POST CONSTRUCTION STORMWATER MANAGEMENT

Stormwater management will be handled by temporary controls outlined in "DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES" above, and any permanent controls needed to meet permanent stormwater management needs in the post construction period will be shown in the plans and noted as permanent.

5.3 (8): POLLUTION PREVENTION PROCEDURES

5.3 (8a): Spill Prevention and Response Procedures

Material Management

Housekeeping

- Only needed products will be stored on-site by the Contractor.
- Except for bulk materials the contractor will store all materials under cover and/or in appropriate containers.
- Products must be stored in original containers and labeled.
- Material mixing will be conducted in accordance with the manufacturer's recommendations.
- When possible, all products will be completely used before properly disposing of the container off-site.
- The manufacturer's directions for disposal of materials and containers will be followed.
- The Contractor's site superintendent will inspect materials storage areas regularly to ensure proper use and disposal.
- Dust generated will be controlled in an environmentally safe manner.

Hazardous Materials

- Products will be kept in original containers unless the container is not resealable and provide secondary containment as applicable.
- Original labels and material safety data sheets will be retained in a safe place to relay important product information.
- If surplus product must be disposed of, manufacturer's label directions for disposal will be followed.
- Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, de-greasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants will be conducted on an impervious surface and under cover during wet weather to prevent the release of contaminants onto the ground.
- Wheel wash water will be collected and allowed to settle out suspended solids prior to discharge. Wheel wash water will not be discharged directly into any stormwater system or stormwater treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, residuals from concrete saw cutting (either wet or dry), and mixer washout waters will be collected on site and managed to prevent contamination of stormwater runoff.

Spill Control Practices

In addition to the previous housekeeping and management practices, the following practices will be followed for spill prevention and cleanup if needed.

- For all hazardous materials stored on site, the manufacturer's recommended methods for spill cleanup will be clearly posted. Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
- Appropriate cleanup materials and equipment will be maintained by the Contractor in the materials storage area on-site. As appropriate, equipment and materials may include items such as brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for cleanup purposes.
- All spills will be cleaned immediately after discovery and the materials disposed of properly.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- After a spill a report will be prepared describing the spill, what caused it, and the cleanup measures taken. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, as well as clean up instructions in the event of reoccurrences.
- The Contractor's site superintendent, responsible for day-to-day operations, will be the spill prevention and cleanup coordinator.

Spill Response

The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into stormwater runoff and conveyance systems. If the release has impacted on-site stormwater, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens stormwater or surface water at the site, the spill response procedures outlined below must be implemented in a timely manner to prevent the release of pollutants.

- The Contractor's site superintendent will be notified immediately when a spill or the threat of a spill is observed. The superintendent will assess the situation and determine the appropriate response.
- If spills represent an imminent threat of escaping erosion and sediment controls and entering receiving waters, personnel will be directed to respond immediately to contain the release and notify the superintendent after the situation has been stabilized.
- Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the Contractor at the site.
- If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The Contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed or repaired as necessary to prevent further releases.
- If a spill occurs the superintendent or the superintendent's designee will be responsible for completing the spill reporting form and for reporting the spill to SDDANR.
- Personnel with primary responsibility for spill response and cleanup will receive training by the Contractor's site superintendent or designee. The training must include identifying the location of the spill kits and other spill response equipment and the use of spill response materials.
- Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response activities.

5.3 (8b): WASTE MANAGEMENT PROCEDURES

Waste Disposal

- All liquid waste materials will be collected and stored in approved sealed containers. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal and notices stating proper practices will be posted. The Contractor is responsible for ensuring waste disposal procedures are followed.

Hazardous Waste

- All hazardous waste materials will be disposed of in a manner specified by local or state regulations or by the manufacturer. Site personnel will be instructed in these practices, and the Contractor will be responsible for seeing that these practices are followed.

Sanitary Waste

- Portable sanitary facilities will be provided on all construction sites. Sanitary waste will be collected from the portable units which must be secured to prevent tipping and serviced in a timely manner by a licensed waste management Contractor or as required by any local regulations.

5.3 (9): CONSTRUCTION SITE POLLUTANTS

The following materials or substances are expected to be present on the site during the construction period. These materials will be handled as noted under the heading "POLLUTION PREVENTION PROCEDURES" (check all that apply).

- ☒ Concrete and Portland Cement
- ☐ Detergents
- ☐ Paints
- ☒ Metals
- ☒ Bituminous Materials
- ☒ Petroleum Based Products
- ☒ Diesel Exhaust Fluid
- ☐ Cleaning Solvents
- ☒ Wood
- ☒ Cure
- ☐ Texture
- ☐ Chemical Fertilizers
- ☐ Other:

Product Specific Practices

- **Petroleum Products**
  All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.

- **Fertilizers**
  Fertilizers will be applied only in the amounts specified by the SDDOT. Once applied, fertilizers will be worked into the soil to limit the exposure to stormwater. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.

- **Paints**
  All containers will be tightly sealed and stored when not required for use. The excess will be disposed of according to the manufacturer's instructions and any applicable state and local regulations.

- **Concrete Trucks**
  Contractors will provide designated truck washout facilities on the site. These areas must be self-contained and not connected to any stormwater outlet of the site. Upon completion of construction, the area at the washout facility will be properly stabilized.

5.3 (10): NON-STORMWATER DISCHARGES

The following non-stormwater discharges are anticipated during the course of this project (check all that apply).

- ☐ Discharges from water line flushing.
- ☐ Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.
- ☐ Uncontaminated ground water associated with dewatering activities.

5.3 (11): INFEASIBILITY DOCUMENTATION

If it is determined to be infeasible to comply with any of the requirements of the Stormwater Permit, the infeasibility determination must be thoroughly documented in the SWPPP.

7.0: SPILL NOTIFICATION

In the event of a spill, the Contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures:

- A release or spill of a regulated substance (includes petroleum and petroleum products) must be reported to SDDANR immediately **if any one of the following** conditions exists:
  - The release or spill threatens or is able to threaten waters of the state (surface water or ground water)
  - The release or spill causes an immediate danger to human health or safety
  - The release or spill exceeds 25 gallons
  - The release or spill causes a sheen on surface water
  - The release or spill of any substance that exceeds the ground water quality standards of ARSD Chapter 74:54:01
  - The release or spill of any substance that exceeds the surface water quality standards of ARSD Chapter 74:51:01
  - The release or spill of any substance that harms or threatens to harm wildlife or aquatic life
  - The release or spill is required to be reported according to Superfund Amendments and Reauthorization Act (SARA) Title III List of Lists, Consolidated List of Chemicals Subject to Reporting Under the Emergency Planning and Community Right to Know Act, US Environmental Protection Agency.

- To report a release or spill, call SDDANR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central Standard Time). To report the release after hours, on weekends or holidays, call South Dakota Emergency Management at 605-773-3231. Reporting the release to SDDANR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, you must also contact local authorities to determine the local reporting requirements for releases. A written report of the unauthorized release of any regulated substance, including quantity discharged, and the location of the discharge will be sent to SDDANR within 14 days of the discharge.

5.4: SWPPP CERTIFICATIONS

- **Certification of Compliance with Federal, State, and Local Regulations**

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

- **South Dakota Department of Transportation**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Authorized Signature (See the General Permit, Section 7.4 (1))

- **Prime Contractor**
  This section is to be executed by the General Contractor after the award of the contract. This section may be executed any time there is a change in the Prime Contractor of the project.

I certify under penalty of law that this document and all attachments will be revised or maintained under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____

Authorized Signature

CONTACT INFORMATION

The following personnel are duly authorized representatives and have signatory authority for modifications made to the SWPPP:

- **Contractor Information**:
  - Prime Contractor Name: _____
  - Contractor Contact Name: _____
  - Address: _____
  - _____
  - City: _____State: _____Zip: _____
  - Office Phone: _____Field: _____
  - Cell Phone: _____Fax: _____
- **Erosion Control Supervisor**
  - Name: _____
  - Address: _____
  - _____
  - City: _____State: _____Zip: _____
  - Office Phone: _____Field: _____
  - Cell Phone: _____Fax: _____
- **Project Engineer**
  - Name: _____
  - Business Address: _____
  - Job Office Location: _____
  - City: _____State: _____Zip: _____
  - Office Phone: _____Field: _____
  - Cell Phone: _____Fax: _____

- **SDDANR Contact Spill Reporting**
  - Business Hours Monday-Friday (605) 773-3296
  - Nights and Weekends (605) 773-3231
- **SDDANR Contact for Hazardous Materials.**
  - (605) 773-3153
- **National Response Center Hotline**
  - (800) 424-8802.
- **SDDANR Stormwater Contact Information**
  - SDDANR Stormwater (800) 737-8676
  - Surface Water Quality Program (605) 773-3351

5.5: REQUIRED SWPPP MODIFICATIONS

- **5.5 (1): Conditions Requiring SWPPP Modification**

The SWPPP must be modified, including the site map(s), in response to any of the following conditions:

- When a new operator responsible for implementation of any part the SWPPP begins work on the site.
- When changes to the construction plans, sediment and erosion control measures, or any best management practices on site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered by inspections.
- To reflect areas on the site map where operational control has been transferred (including the date of the transfer) or has been covered under a new permit since initiating coverage under this general permit.
- If inspections by site staff, local officials, SDDANR, or U.S. EPA determine that SWPPP modifications are necessary for compliance with the Stormwater Permit.
- To reflect any revisions to applicable federal, state, or local requirements that affect the control measures implemented at the site.
- If approved by the Secretary, to reflect any changes in chemical water treatment systems or controls, including the use of a different water treatment chemical, age rates, different areas, or methods of application.

- **5.5 (2): Deadlines for SWPPP Modification**

Any required revisions to the SWPPP must be completed within 7 calendar days following any of the items listed above.

- **5.5 (3): Documentation of Modifications to the Plan**

All SWPPP modification records are required to be maintained showing the dates of when the modification occurred. The records must include the name of the person authorizing each change and a brief summary of all changes.

- **5.5 (4): Certification Requirements**

All modifications made to the SWPPP must be signed and certified as required in Section 7.4.

- **5.5 (5): Required Notice to Other Operators**

If there are multiple operators at the site, the Contractor's Erosion Control Supervisor must notify each operator that may be impacted by the change to the SWPPP within 24 hours.

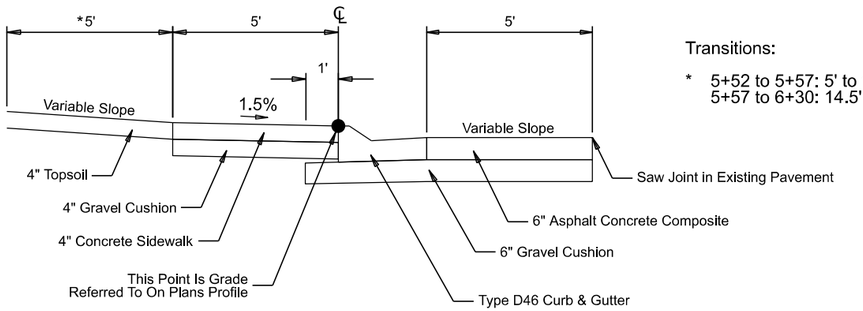
When modifications as described above occur, the SWPPP will be modified to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The Project Engineer will modify the SWPPP using the DOT 298 form and drawings on the plan will be modified to reflect the needed changes. Copies of the DOT 298 forms and the SWPPP will be retained on site in a designated place for review throughout the course of the project. A copy of the DOT 298 form will be given to the Contractor Erosion Control Supervisor and a copy will be emailed to the SDDOT Environmental Section in accordance with the DOT 298 Form.

TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	15	68

Plotting Date: 10/1/2026

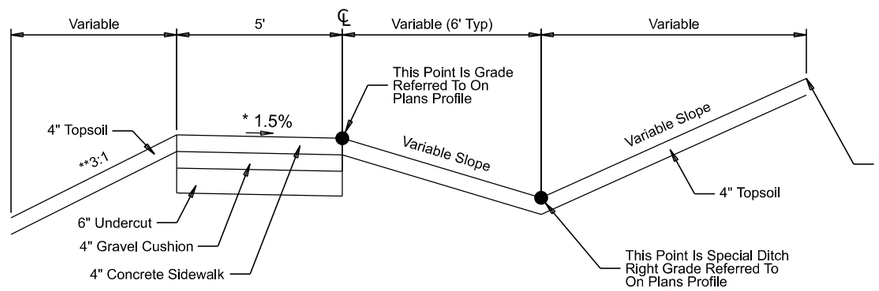


Transitions:

* 5+52 to 5+57: 5' to 14.5'
5+57 to 6+30: 14.5'

PATH WITH CURB & GUTTER

5+00.00 TO 6+30.00



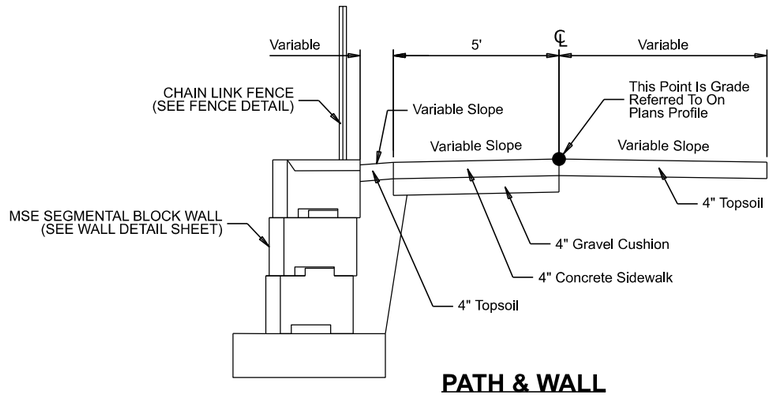
Transitions:

* 7+45 to 7+60: 1.5% to -1.5%
7+60 to 8+40: -1.5%

** 6+30 to 6+70: Variable
6+70 to 8+40: 3:1

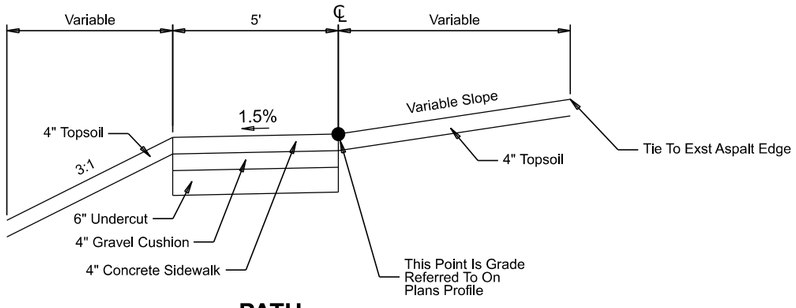
PATH

6+30.00 TO 8+40.00



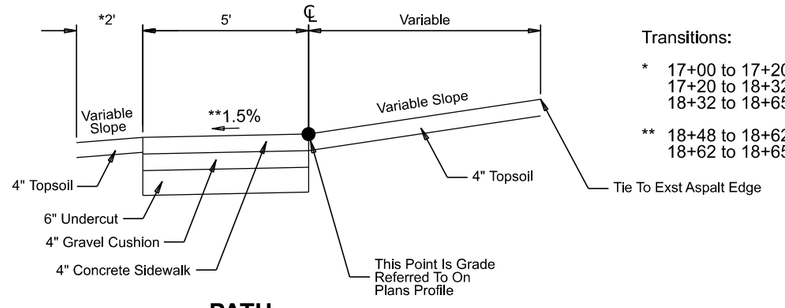
PATH & WALL

12+93.63 TO 12+95.86
13+25.84 TO 13+46.66



PATH

8+40.00 TO 12+93.63
13+46.66 TO 13+65.00



Transitions:

* 17+00 to 17+20: 2' to 15'
17+20 to 18+32: 15'
18+32 to 18+65: Variable

** 18+48 to 18+62: 1.5% to -1.0%
18+62 to 18+65: -1.0%

PATH

13+65.00 TO 18+65.24

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

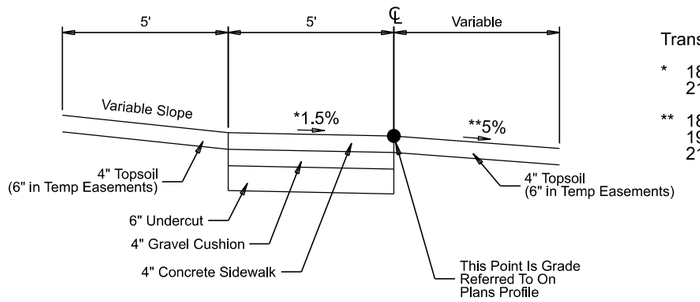
NOTE:
See Curb & Gutter, Driveway, and Sidewalk Details for pavement materials and thicknesses for non typical areas.

TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	16	68

Plotting Date: 10/1/2026



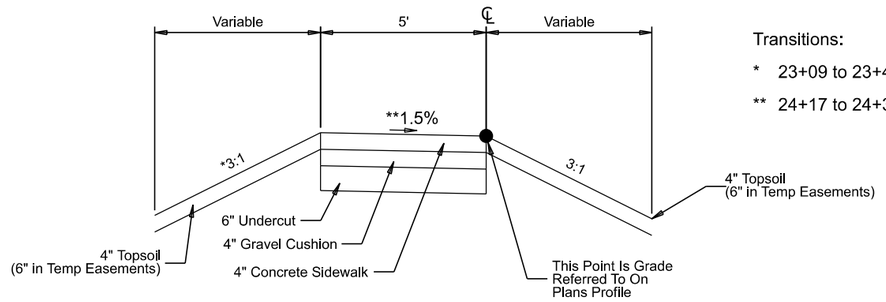
PATH

18+97.61 TO 22+22.29

Transitions:

* 18+98 to 19+12: 1% to 1.5%
21+97 to 22+22: 1.5% to -0.3%

** 18+98 to 19+20: Variable
19+20 to 21+85: 5%
21+85 to 22+22: Variable



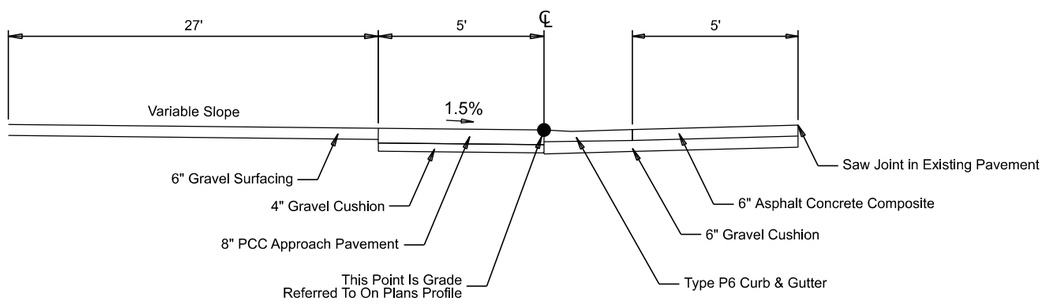
PATH

23+09.29 TO 24+32.02

Transitions:

* 23+09 to 23+40: Variable Slope

** 24+17 to 24+32: 1.5% to 0.4%



APPROACH WITH CURB & GUTTER

22+27.29 TO 23+04.29

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ADAIR
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10/22/26

NOTE:
See Curb & Gutter, Driveway, and Sidewalk Details for pavement materials and thicknesses for non typical areas.

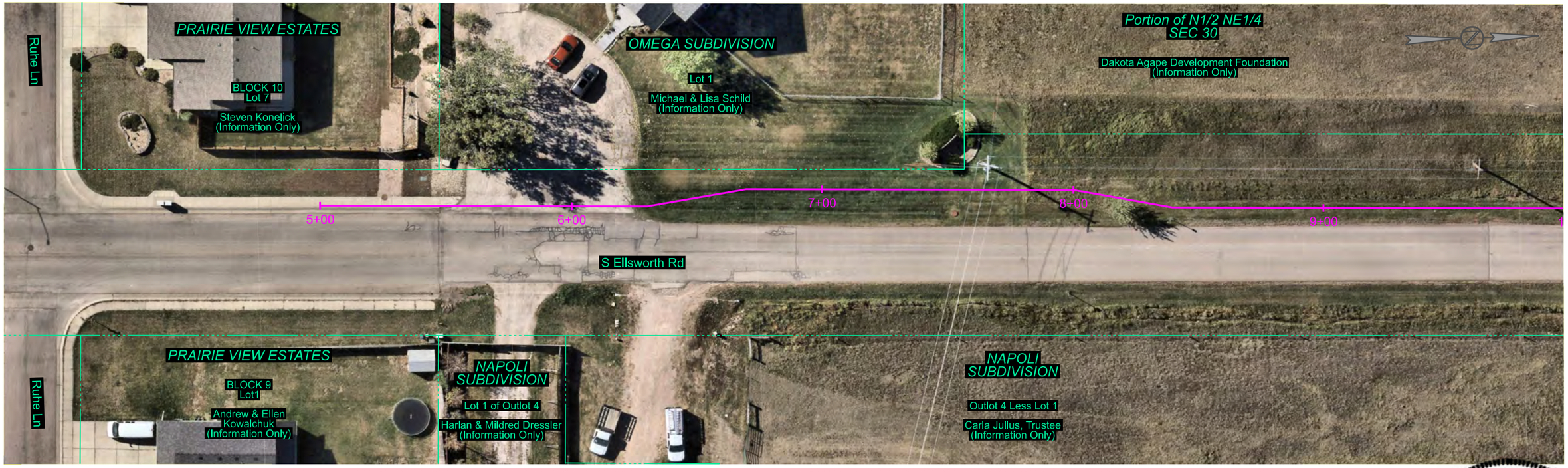
PROPERTY LAYOUT

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PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	17	68

Plotting Date: 10/1/2026





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10/22/26

PROPERTY LAYOUT

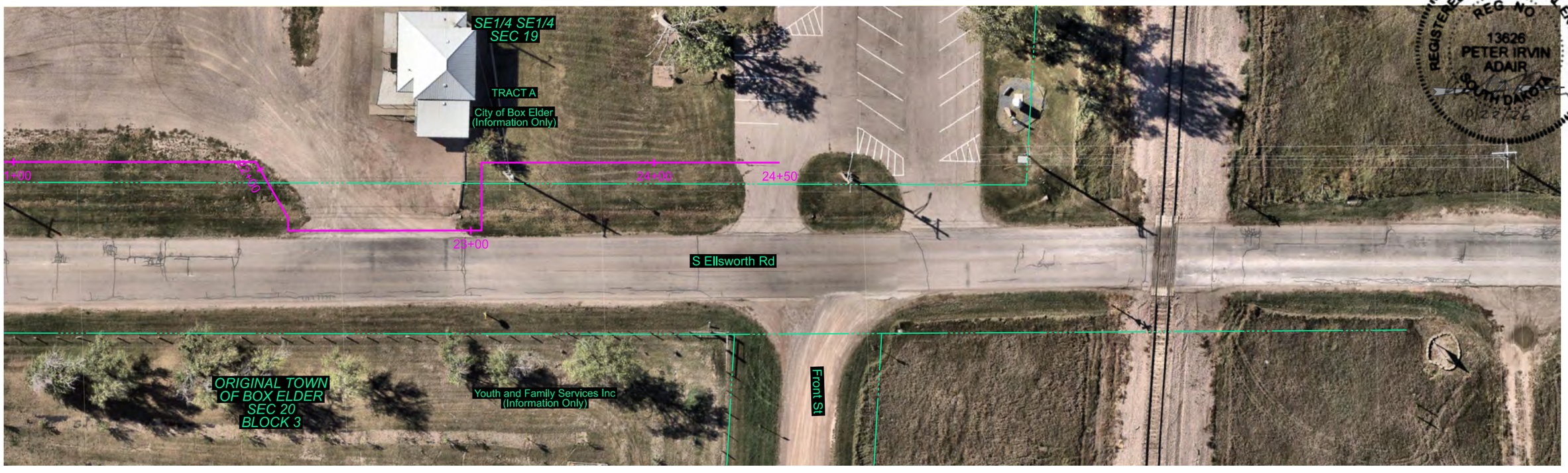
FOR BIDDING PURPOSES ONLY

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PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	18	68

Plotting Date: 10/1/2026





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01/27/26

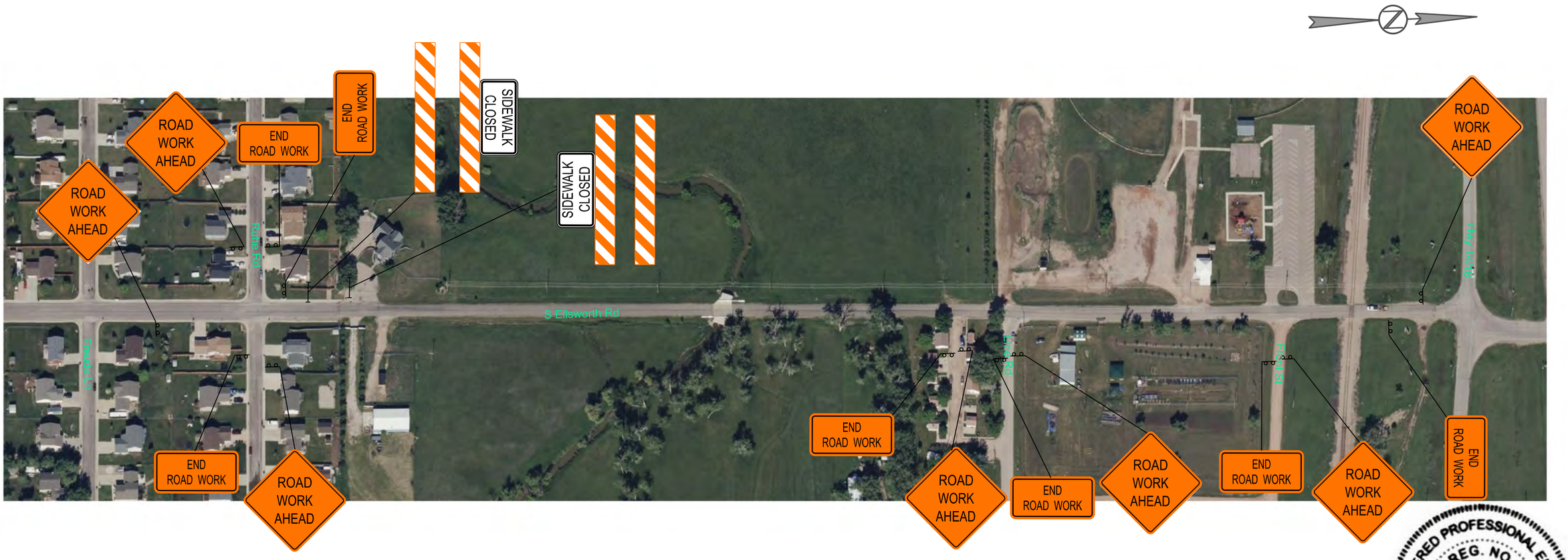
Plotted From - isaacberg File - ...\Plans\09FW_Property_Layout.dgn

TRAFFIC CONTROL
FIXED LOCATION SIGNING

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	19	68

Plotting Date: 10/1/2026



ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

Signs shown above

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R9-9	SIDEWALK CLOSED	2	24" x 12"	2.0	4.0
W20-1	ROAD WORK AHEAD	7	48" x 48"	16.0	112.0
G20-2	END ROAD WORK	7	36" x 18"	4.5	31.5
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			147.5

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

Signs not shown above,see standard plates for sign placement

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
W21-5	SHOULDER WORK	4	48" x 48"	16.0	64.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			128.0

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10/22/26

Note:

W20-1 signs are also to be used per the applicable standard plate(s).

Plotted From - isaacberg File - ...\09FW_FixedLocationSigning.dgn

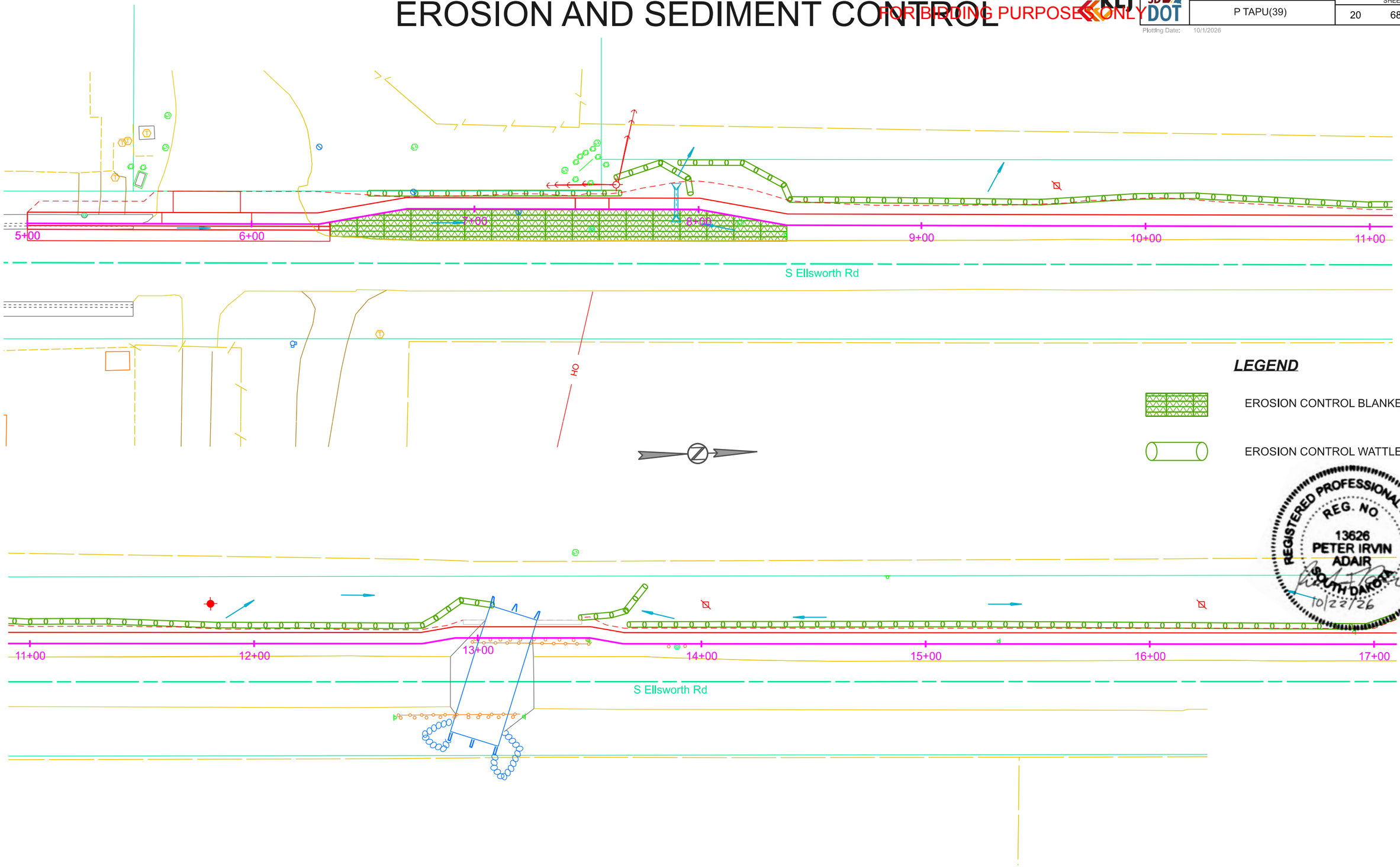
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EROSION AND SEDIMENT CONTROL

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	20	68

Plotting Date: 10/1/2026



LEGEND

EROSION CONTROL BLANKET

EROSION CONTROL WATTLE

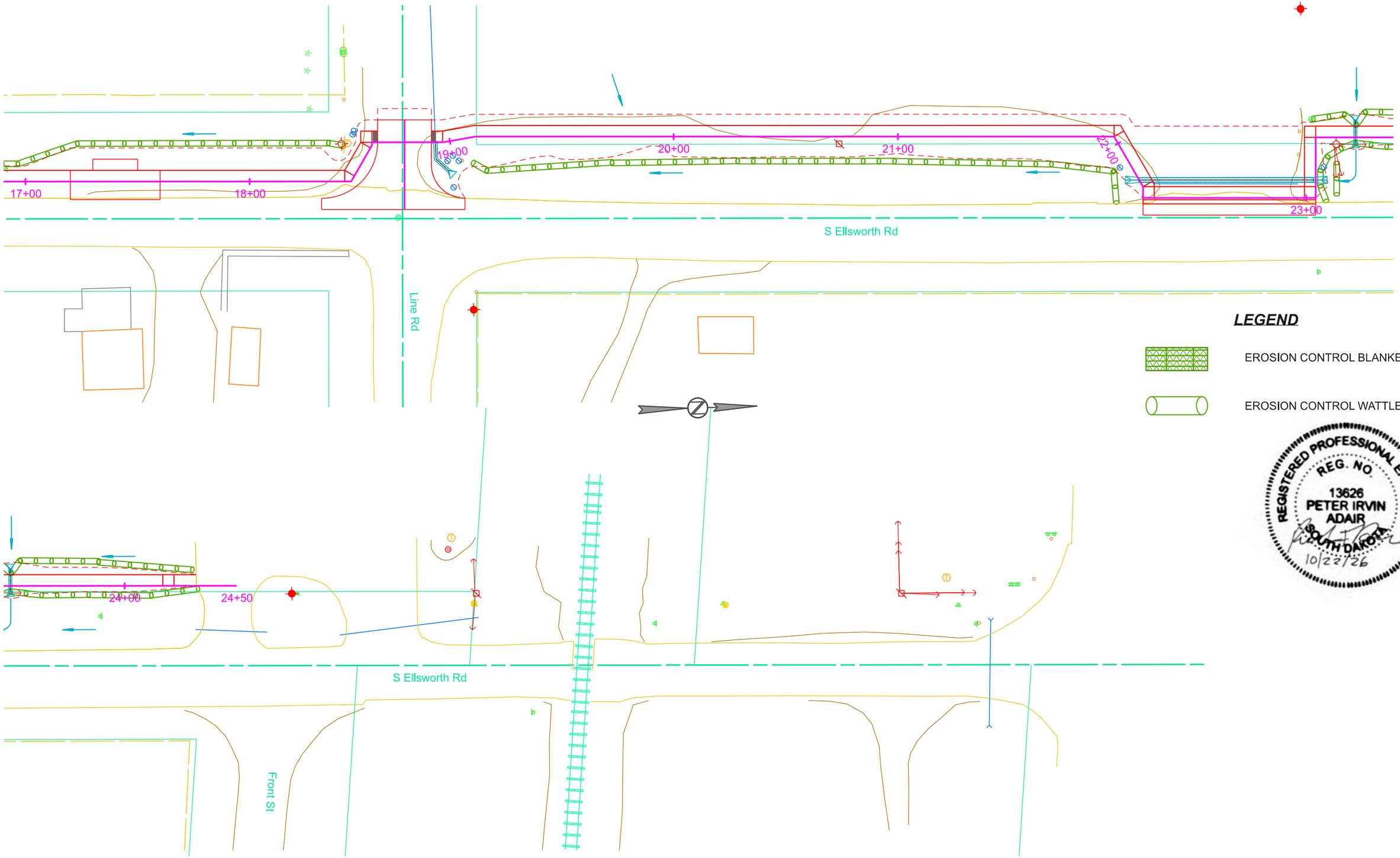
REGISTERED PROFESSIONAL ENGINEER
REG. NO
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PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

EROSION AND SEDIMENT CONTROL

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	21	68

Plotting Date: 10/1/2026



LEGEND

EROSION CONTROL BLANKET

EROSION CONTROL WATTLE

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PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

HORIZONTAL ALIGNMENT DATA

FOR BIDDING PURPOSES ONLY

Sidewalk

Type	Station			Northing	Easting
POB	5+00.00			658416.49	1249630.93
		TL= 130.00	N01°54'00"E		
PI	6+30.00			658546.42	1249635.24
		TL= 40.00	N08°06'00"W		
PI	6+70.00			658586.02	1249629.61
		TL= 130.00	N01°54'00"E		
PI	8+00.00			658715.95	1249633.92
		TL= 40.00	N11°54'00"E		
PI	8+40.00			658755.09	1249642.17
		TL= 435.00	N01°54'00"E		
PI	12+75.00			659189.85	1249656.59
		TL= 15.00	N08°06'00"W		
PI	12+90.00			659204.70	1249654.48
		TL= 60.00	N01°54'00"E		
PI	13+50.00			659264.67	1249656.46
		TL= 15.00	N11°54'00"E		
PI	13+65.00			659279.35	1249659.56
		TL= 480.24	N01°54'00"E		
PI	18+45.24			659759.32	1249675.48
		TL= 18.66	N58°06'00"W		
PI	18+63.90			659769.19	1249659.64
		TL= 1.34	N88°06'00"W		
PI	18+65.24			659769.23	1249658.30
		TL= 31.94	N01°54'00"E		
PI	18+97.18			659801.15	1249659.36
		TL= 14.40	N08°06'00"W		
PI	19+11.57			659815.40	1249657.33
		TL= 284.93	N01°54'00"E		
PI	21+96.51			660100.18	1249666.78
		TL= 25.79	N61°54'00"E		
PI	22+22.29			660112.33	1249689.53
		TL= 5.00	S88°06'00"E		
PI	22+27.29			660112.16	1249694.52
		TL= 77.00	N01°54'00"E		
PI	23+04.29			660189.12	1249697.08
		TL= 27.00	N88°06'00"W		
PI	23+31.29			660190.01	1249670.09
		TL= 118.71	N01°54'00"E		
POE	24+50.00			660308.65	1249674.03

Xr19

Type	Station			Northing	Easting
POB	50+00.00			659782.73	1249688.76
		TL= 40.00	N 88°06'00" W		
POE	50+40.00			659784.05	1249648.79



The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South 4002 Zone NAD 83(2011); epoch 2010.00; Geoid 18; CSF = 1.000198136

CONTROL DATA

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PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	23	68

Plotting Date: 10/1/2026

HORIZONTAL AND VERTICAL CONTROL POINTS

POINT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP 2	30+83.96	5641.04' L	Rebar with cap	661184.852	1244079.593	3052.7310
CP 6	28+82.81	627.62' R	Rebar with cap	660775.619	1250338.098	3033.1300
CP 20	26+43.69	46.11' R	Rebar with cap	660555.971	1249748.961	3034.0250
CP 21	19+30.73	46.89' R	Rebar with cap	659843.387	1249726.037	3036.0470
CP 22	6+69.87	75.35' R	Rebar with cap	658580.022	1249718.288	3046.4790
CP 401	18+35.46	31.87' L	Rebar with cap	659750.786	1249644.151	3035.9270
CP 402	7+60.14	33.15' L	Rebar with cap	658673.298	1249610.296	3040.9850
CP 403	7+58.84	19.19' L	Rebar	658672.916	1249624.313	3040.9580
CP 404	7+75.72	194.09' L	Rebar with cap	658678.257	1249448.676	3034.7880
CP 405	5+47.84	16.91' L	Rebar	658464.130	1249618.015	3048.6470
CP 406	5+48.20	106.78' L	Rebar with cap	658467.288	1249528.198	3043.0470
CP 407	4+08.34	16.97' L	Rebar with cap	658324.699	1249613.599	3049.3970
CP 408	4+08.27	49.04' R	Rebar with cap	658322.580	1249679.570	3050.3130
CP 409	6+00.13	47.22' R	Rebar with cap	658512.442	1249685.301	3048.5850
CP 410	19+00.91	852.22' L	Rebar with cap	659843.484	1248826.429	3034.4570
CP 411	16+90.85	48.23' R	Rebar with cap	659603.594	1249719.395	3032.7530
CP 435	18+67.98	15.70' R	Miscellaneous property corner	659781.710	1249692.774	3036.1290
CP 437	71+66.14	11.05' R	Property corner with cap	665076.815	1249864.304	3085.9600
CP 7000	23+76.05	47.79' R	Miscellaneous property corner	660288.434	1249741.745	3033.7990
CP 7003	25+52.87	852.99' L	Rebar	660495.116	1248847.342	3037.2910
CP 7004	23+56.86	347.08' R	Rebar	660259.295	1250040.227	3032.8770
CP 7005	19+01.61	348.32' R	Miscellaneous property corner	659804.257	1250026.326	3034.1200

REGISTERED PROFESSIONAL ENGINEER
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ADAIR
SOUTH DAKOTA
10/22/26

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South 4002 Zone NAD 83(2011); epoch 2010.00; Geoid 18; CSF = 1.000198136
The elevations shown on this sheet are based on NAVD 88.

LEGEND

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PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	24	68

Plotting Date: 10/1/2026

- Anchor
- Antenna
- Approach
- Assumed Corner
- Azimuth Marker
- BBQ Grill/ Fireplace
- Bearing Tree
- Bench Mark
- Box Culvert
- Bridge
- Brush
- Buildings
- Bulk Tank
- Cattle Guard
- Cemetery
- Centerline
- Cistern
- Clothes Line
- Commercial Sign Double Face
- Commercial Sign One Post
- Commercial Sign Overhead
- Commercial Sign Two Post
- Concrete Symbol
- Creek Edge
- Curb/Gutter
- Curb
- Dam Grade/Dike/Levee
- Deck Edge
- Ditch Block
- Doorway Threshold
- Drainage Profile
- Drop Inlet
- Edge Of Asphalt
- Edge Of Concrete
- Edge Of Gravel
- Edge Of Other
- Edge Of Shoulder
- Electric Transformer/Power Junction Box
- Fence Barbwire
- Fence Chainlink
- Fence Electric
- Fence Miscellaneous
- Fence Rock
- Fence Snow
- Fence Wood
- Fence Woven
- Fire Hydrant
- Flag Pole
- Flower Bed
- Gas Valve Or Meter
- Gas Pump Island
- Grain Bin
- Guardrail
- Guide Sign One Post
- Guide Sign Two Post
- Gutter
- Guy Pole
- Haystack
- Hedge
- Highway ROW Marker
- Interstate Close Gate
- Iron Pin
- Irrigation Ditch
- Lake Edge
- Lawn Sprinkler
- Mailbox
- Manhole Electric
- Manhole Gas
- Manhole Miscellaneous
- Manhole Sanitary Sewer
- Manhole Storm Sewer
- Manhole Telephone
- Manhole Water
- Merry-Go-Round
- Microwave Radio Tower
- Miscellaneous Line
- Miscellaneous Property Corner
- Miscellaneous Post
- Overhang Or Encroachment
- Overhead Utility Line — OH —
- Parking Meter
- Pedestrian Push Button Pole
- Pipe With End Section
- Pipe With Headwall
- Pipe Without End Section
- Playground Slide
- Playground Swing
- Power And Light Pole
- Power And Telephone Pole
- Power Meter
- Power Pole
- Power Pole And Transformer
- Power Tower Structure
- Propane Tank
- Property Pipe
- Property Pipe With Cap
- Property Stone
- Public Telephone
- Railroad Crossing Signal
- Railroad Milepost Marker
- Railroad Profile
- Railroad ROW Marker
- Railroad Signs
- Railroad Switch
- Railroad Track
- Railroad Trestle
- Rebar
- Rebar With Cap
- Reference Mark
- Regulatory Sign One Post
- Regulatory Sign Two Post
- Retaining Wall
- Riprap
- River Edge
- Rock And Wire Baskets
- Rockpiles
- Satellite Dish
- Septic Tank
- Shrub Tree
- Sidewalk
- Sign Face
- Sign Post
- Slough Or Marsh
- Spring
- Stream Gauge
- Street Marker
- Subsurface Utility Exploration Test Hole
- Telephone Fiber Optics — T/F —
- Telephone Junction Box
- Telephone Pole
- Television Cable Jct Box
- Television Tower
- Test Wells/Bore Holes
- Traffic Signal
- Trash Barrel
- Tree Belt
- Tree Coniferous
- Tree Deciduous
- Tree Stumps
- Triangulation Station
- Underground Electric Line — P —
- Underground Gas Line — G —
- Underground High Pressure Gas Line — HG —
- Underground Sanitary Sewer — S —
- Underground Storm Sewer — S —
- Underground Tank
- Underground Telephone Line — T —
- Underground Television Cable — TV —
- Underground Water Line — W —
- Warning Sign One Post
- Warning Sign Two Post
- Water Fountain
- Water Hydrant
- Water Meter
- Water Tower
- Water Valve
- Water Well
- Weir Rock
- Windmill
- Wingwall
- Witness Corner

- State and National Line
- County Line
- Section Line
- Quarter Line
- Sixteenth Line
- Property Line
- Construction Line
- ROW Line
- New ROW Line
- Cut and Fill Limits
- Control of Access
- New Control of Access
- Proposed ROW (After Property Disposal)

- Drainage Arrow

- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Gravel Surfacing
- Remove Concrete Curb and/or Gutter
- Remove Pipe
- Remove Tree

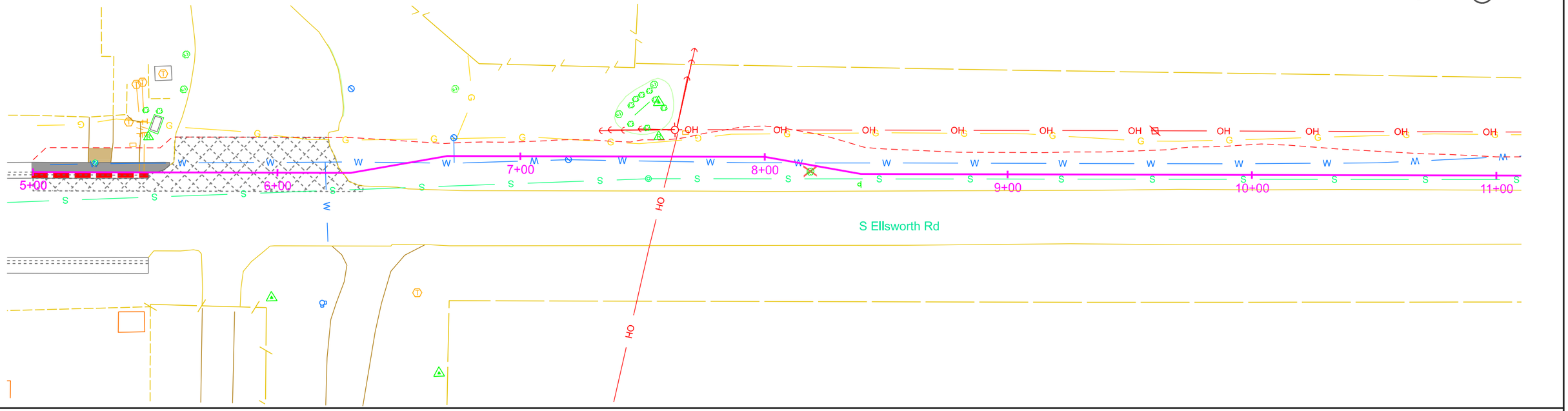
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10/22/26

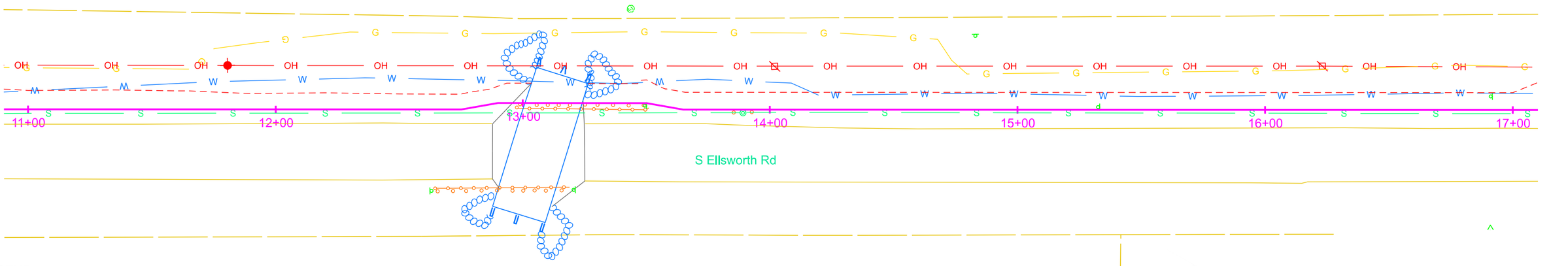
REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	25	68

Plotting Date: 10/1/2026





LEGEND

- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Gravel Surfacing
- Remove Concrete Curb and/or Gutter
- Remove Pipe
- Remove Tree

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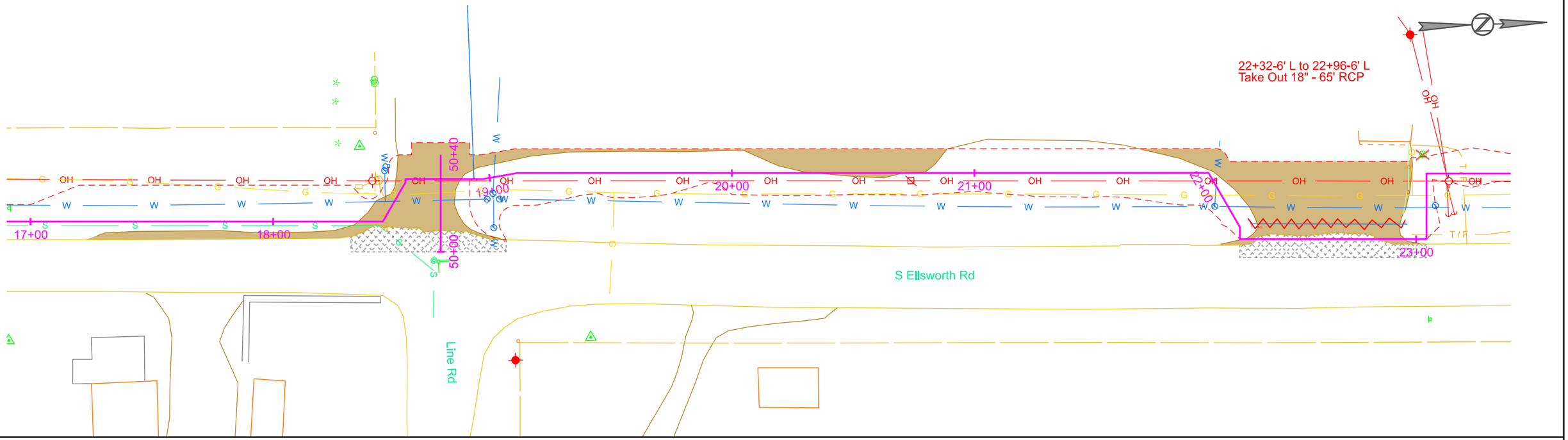
REMOVAL LAYOUT

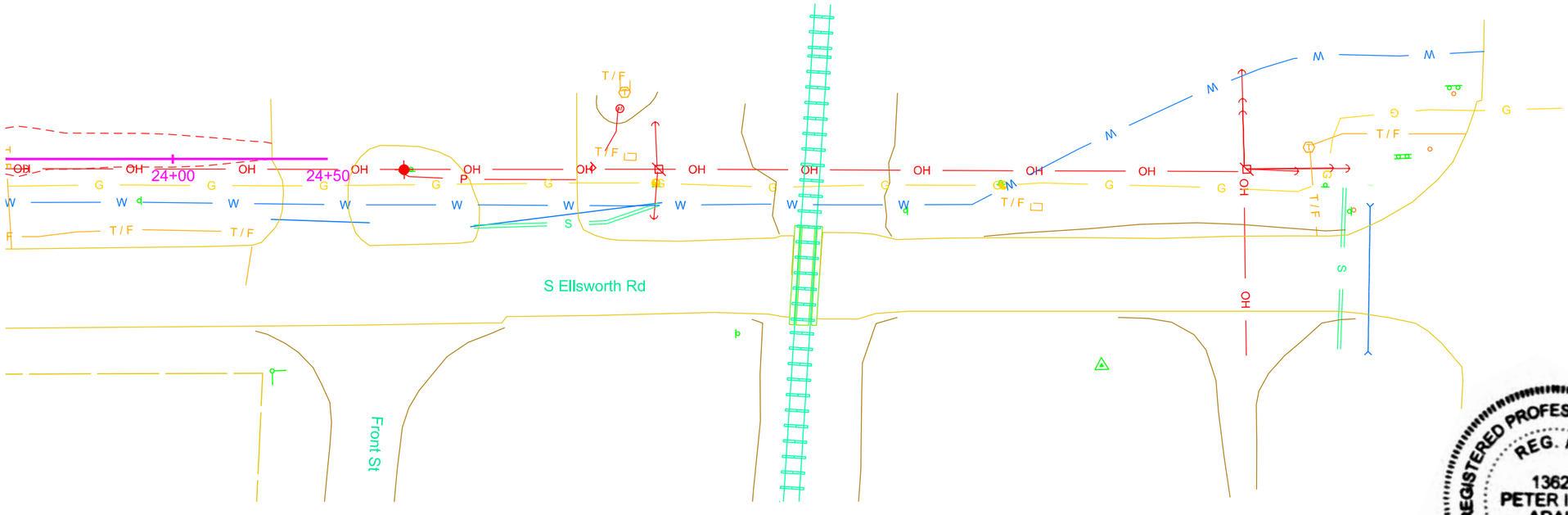
FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	26	68

Plotting Date: 10/1/2026





LEGEND

- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Gravel Surfacing
- Remove Concrete Curb and/or Gutter
- Remove Pipe
- Remove Tree

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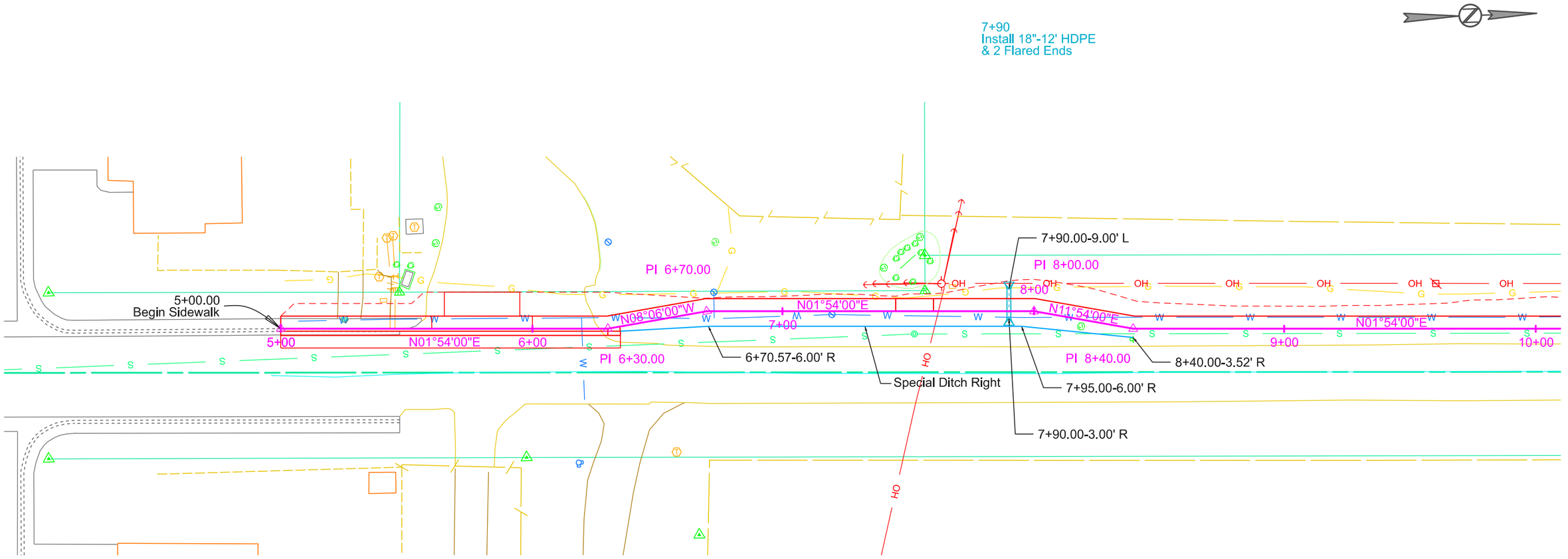
PLAN AND PROFILE

FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	27	68

Plotting Date: 10/1/2026



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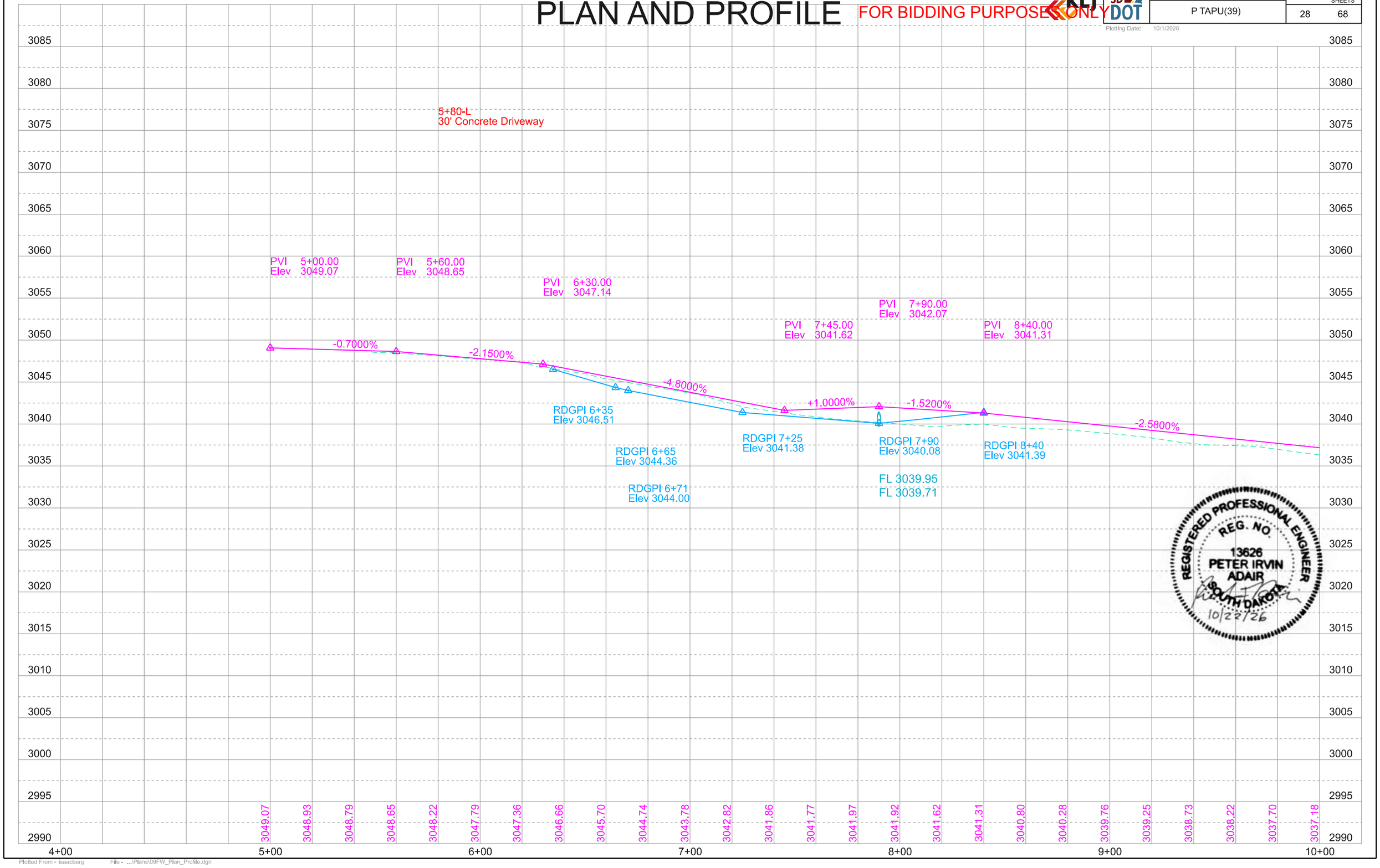
PLAN AND PROFILE

FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	28	68

Plotting Date: 10/1/2026



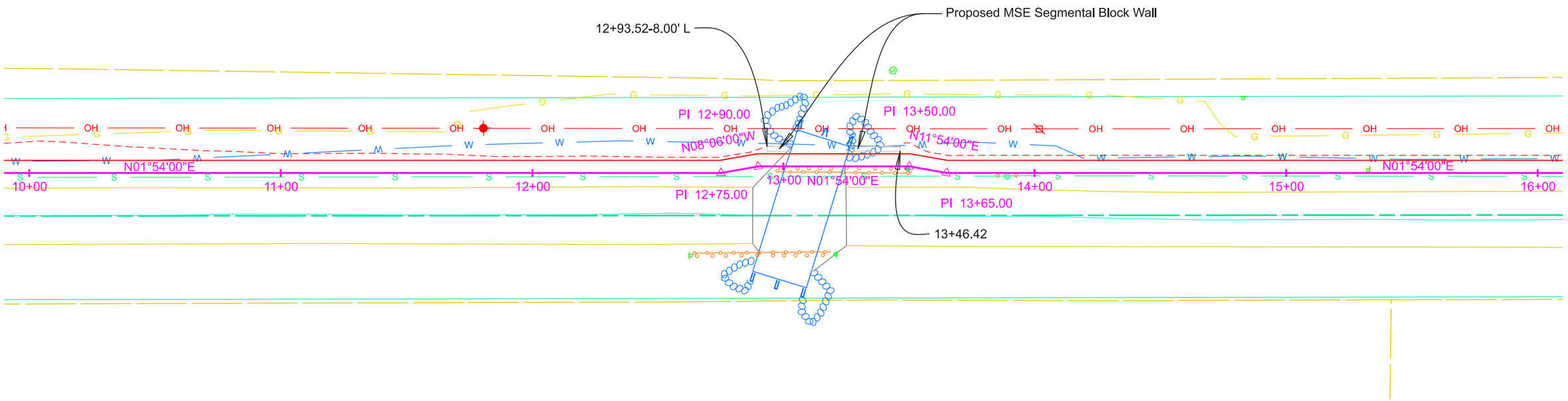
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PLAN AND PROFILE

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	29	68

Plotting Date: 10/1/2026



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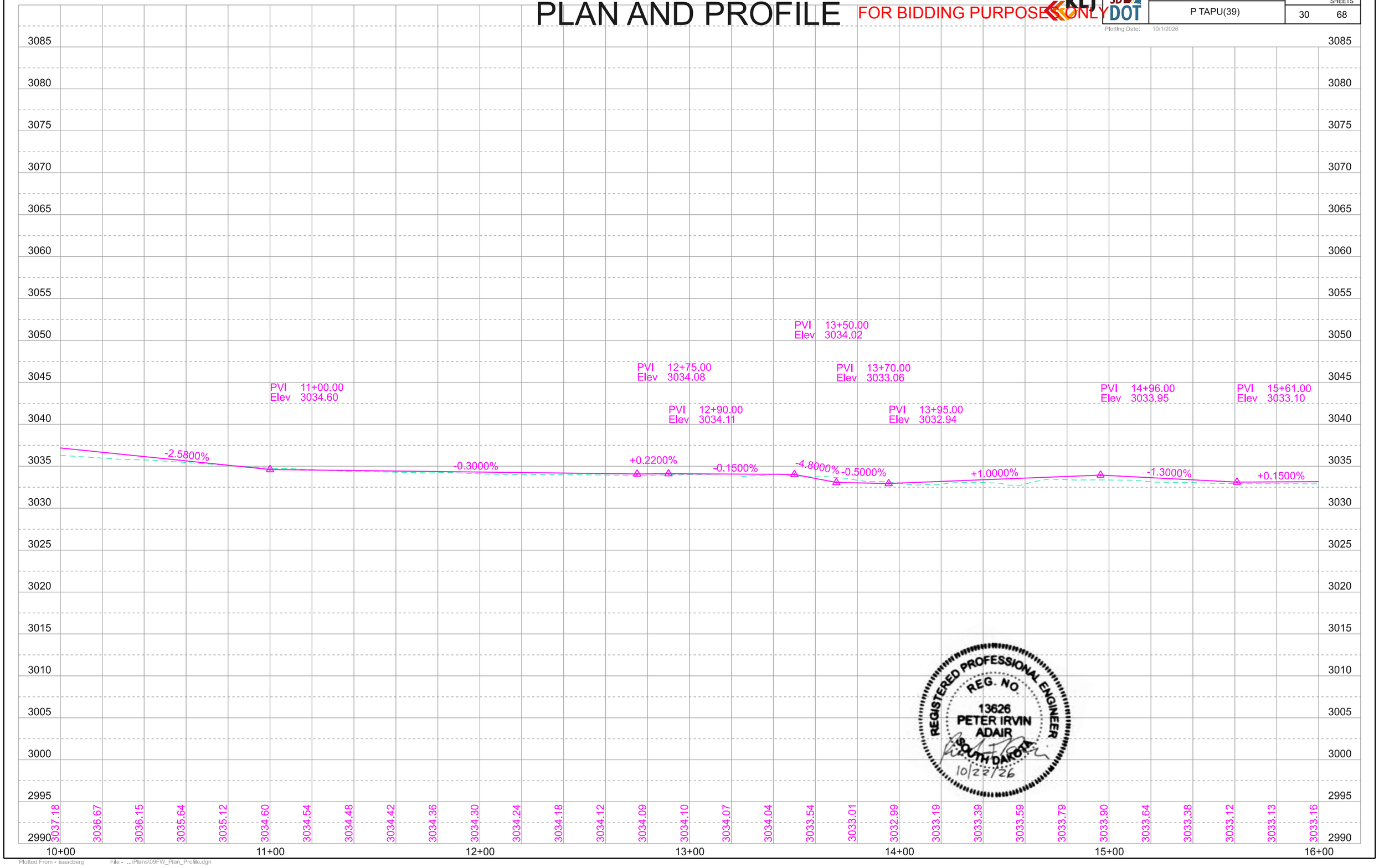
PLAN AND PROFILE

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PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	30	68

Plotting Date: 10/1/2026



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PLAN AND PROFILE

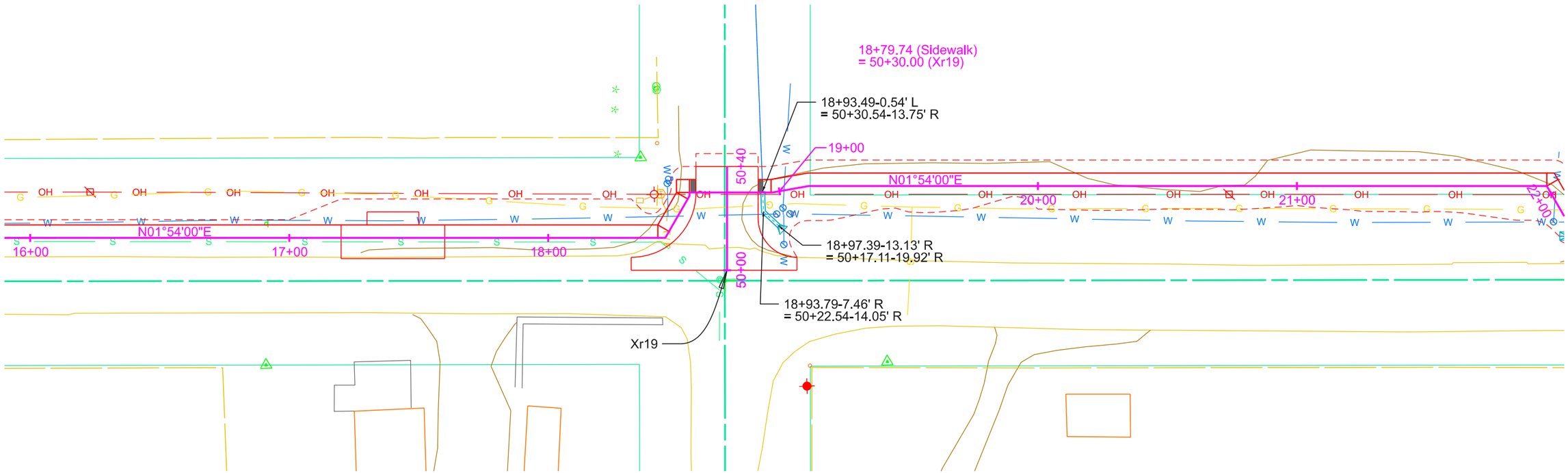
FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	31	68

Plotting Date: 10/1/2026

18+93-L
Retain 18"-451' HDPE
& Remove 1 End Section for Reset

18+93-R
Install 18"-16' HDPE
& 1-45° HDPE Elbow
& Reset CMP Flared End



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NOTE:

See Curb & Gutter, Driveway, and Sidewalk Detail Sheets for missing alignment PI and Bearing information.

PLAN AND PROFILE

FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	32	68

Plotting Date: 10/1/2026

3085 3080 3075 3070 3065 3060 3055 3050 3045 3040 3035 3030 3025 3020 3015 3010 3005 3000 2995 2990

17+40-L
20' Ent

PVI 17+15.00
Elev 3033.91

PVI 17+00.00
Elev 3033.31

PVI 17+75.00
Elev 3034.51

PVI 18+65.24
Elev 3036.07

PVI 18+62.56
Elev 3036.07

PVI 18+48.13
Elev 3035.60

PVI 18+42.35
Elev 3035.60

PVI 18+97.18
Elev 3035.75

PVI 21+96.51
Elev 3034.20

+0.1500% +4.0000% +1.0000% +1.6241% +3.2341% -1.0000% -0.0000% +0.0000% -0.5189% +4.3205%

FL 3033.75
FL 3033.90

Xr19

3055 3050 3045 3040 3035 3025

PVI 50+40.00
Elev 3036.03

PVI 50+14.00
Elev 3035.77

PVI 50+00.00
Elev 3036.05

-2.0000% +1.0000%

3036.05 3035.83 3036.03

50+00 50+40

3033.16 3033.19 3033.22 3033.25 3033.28 3033.31 3033.96 3034.16 3034.36 3034.59 3034.92 3035.24 3035.57 3035.99 3035.92 3035.74 3035.63 3035.53 3035.43 3035.32 3035.22 3035.11 3035.01 3034.91 3034.80 3034.70 3034.60 3034.49 3034.39 3034.28 3034.35

16+00 17+00 18+00 19+00 20+00 21+00 22+00

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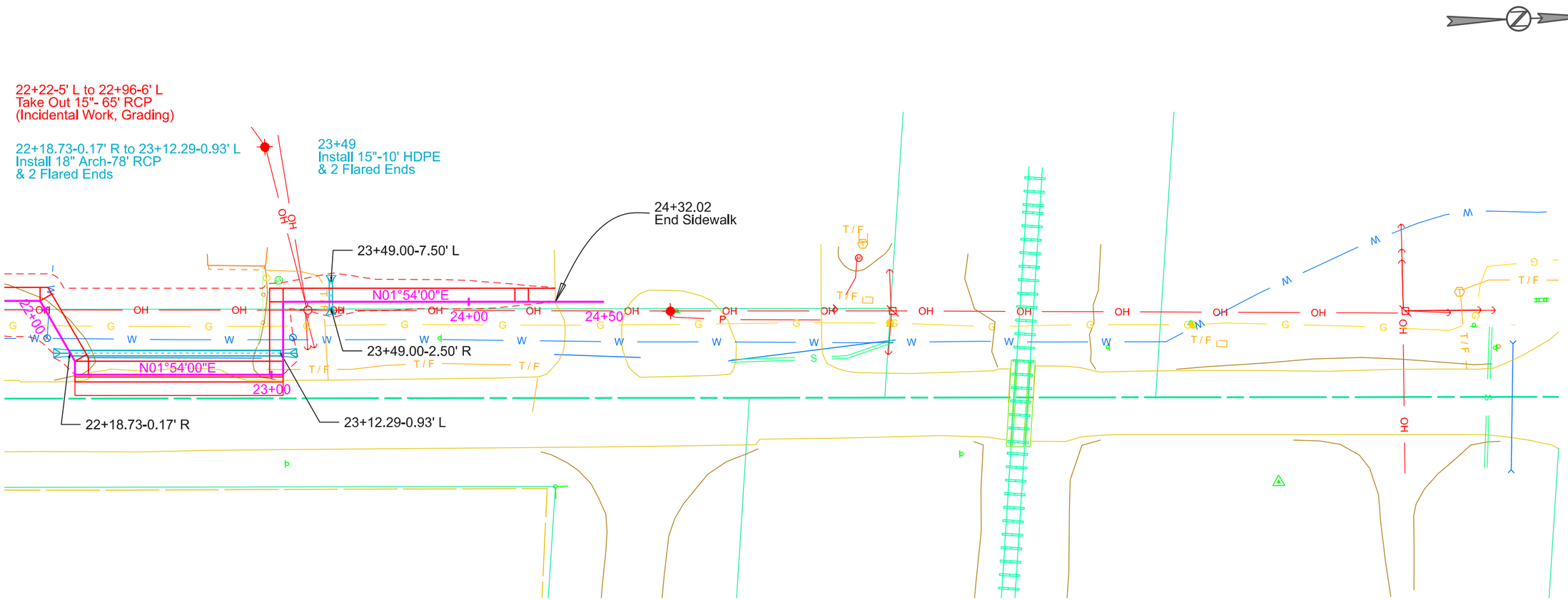
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PLAN AND PROFILE

FOR BIDDING PURPOSES ONLY

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	33	68

Plotting Date: 10/1/2026



NOTE:

See Curb & Gutter, Driveway, and Sidewalk Detail Sheets for missing alignment PI and Bearing information.

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PLAN AND PROFILE

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KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	34	68

Plotting Date: 10/1/2026

PVI 23+60.00
Elev 3035.70

PVI 23+40.00
Elev 3035.70

PVI 24+32.02
Elev 3034.90

PVI 22+27.29
Elev 3035.24

PVI 23+09.29
Elev 3035.08

PVI 24+22.02
Elev 3035.05

PVI 22+22.29
Elev 3035.31

PVI 23+04.29
Elev 3035.01

PVI 24+00.00
Elev 3035.50

+4.3205% -1.5000% -0.3000% +1.5000% +1.9981% +0.0000% -0.5000% -2.0000% -1.5000%

FL 3032.84

FL 3033.00

FL 3033.90
FL 3033.80

3085 3080 3075 3070 3065 3060 3055 3050 3045 3040 3035 3030 3025 3020 3015 3010 3005 3000 2995 2990

3034.35 3035.21 3035.20 3035.14 3035.08 3035.02 3035.30 3035.70 3035.70 3035.60 3035.50 3035.10 3034.90

22+00 23+00 24+00 25+00 26+00 27+00 28+00

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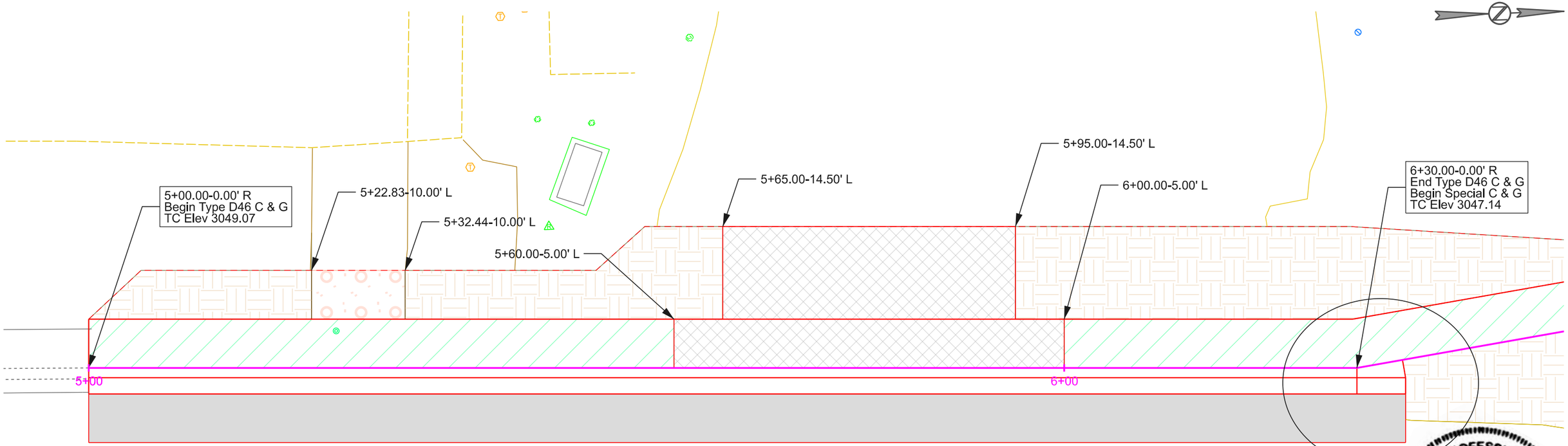
CURB & GUTTER, DRIVEWAY, AND SIDEWALK DETAILS

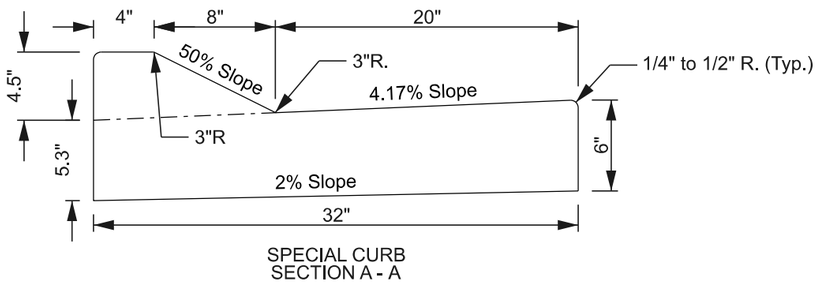
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KLJ | SD DOT

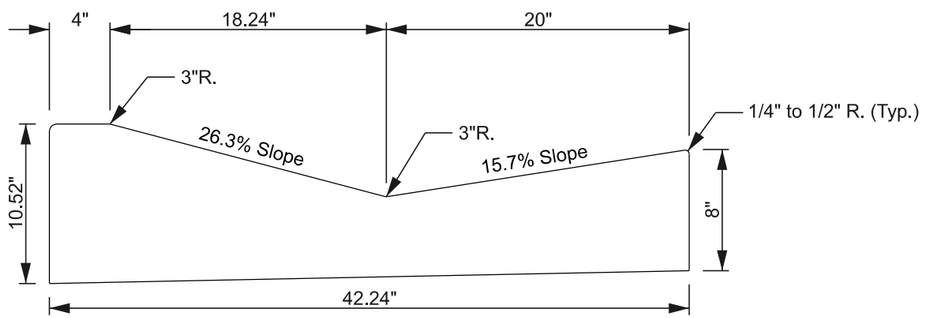
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	35	68

Plotting Date: 10/1/2026

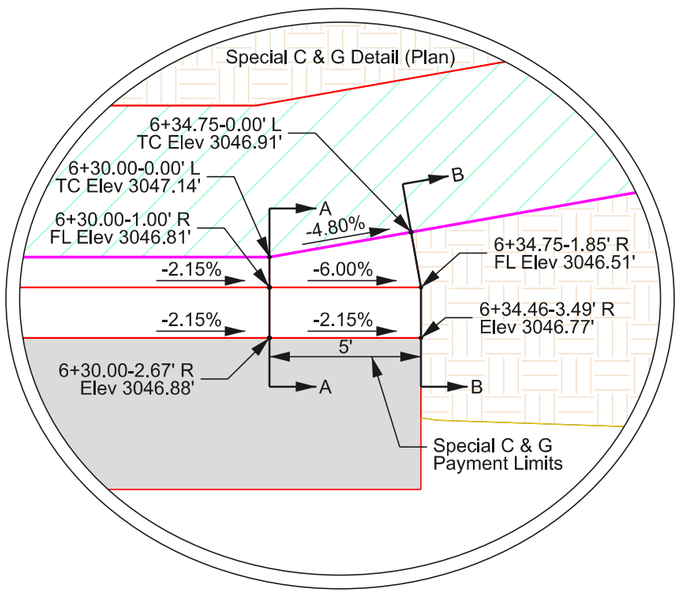




SPECIAL CURB
SECTION A - A



SPECIAL CURB
SECTION B - B



LEGEND

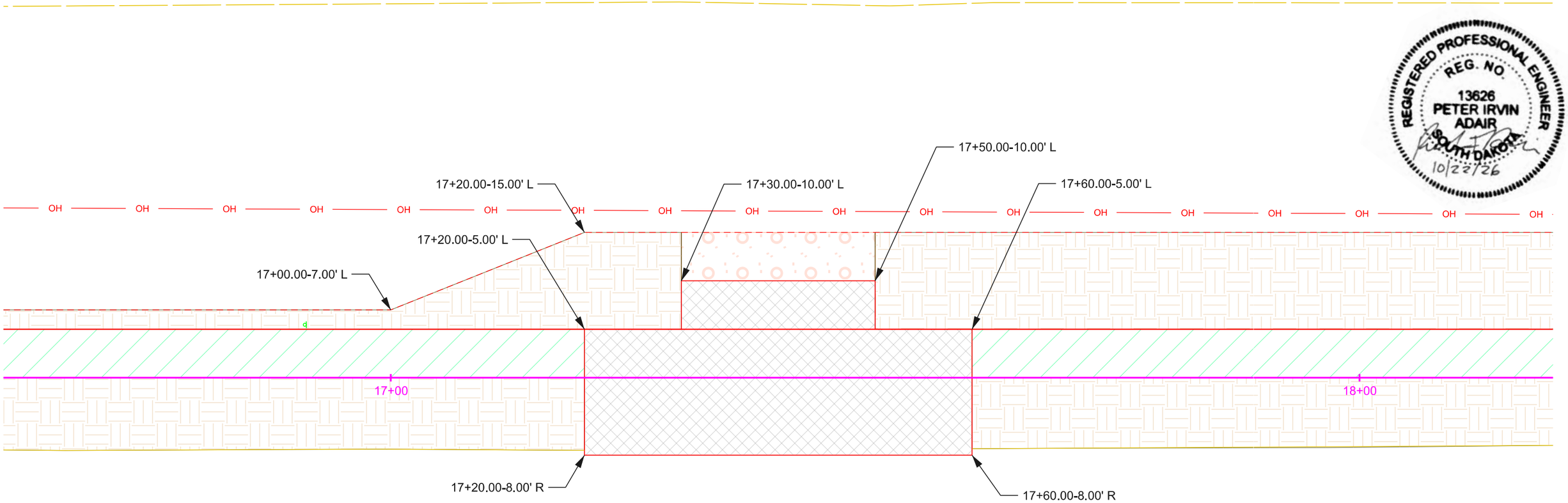
- 6" Asphalt & 6" Gravel Cushion
- 4" Conc SW & 4" Gravel Cushion
- 6" Conc SW & 4" Gravel Cushion
- 6" PCC Approach Pavement & 4" Gravel Cushion
- 8" PCC Approach Pavement & 4" Gravel Cushion
- 6" Gravel Surfacing
- Topsoil

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CURB & GUTTER, DRIVEWAY, AND SIDEWALK DETAILS



LEGEND

- 6" Asphalt & 6" Gravel Cushion
- 4" Conc SW & 4" Gravel Cushion
- 6" Conc SW & 4" Gravel Cushion
- 6" PCC Approach Pavement & 4" Gravel Cushion
- 8" PCC Approach Pavement & 4" Gravel Cushion
- 6" Gravel Surfacing
- Topsoil

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CURB & GUTTER, DRIVEWAY, AND SIDEWALK DETAILS

FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	37	68

Plotting Date: 10/1/2026

18+67.74-10.00' L
= 50+40.00-12.00' L
Elev 3036.15'

18+65.24-5.00' L
= 50+35.00-14.50' L
Elev 3036.12'

18+65.24-7.07' L
= 50+35.00-19.50' L
Elev 3036.17'

18+65.24-5.00' L
= 50+30.00-19.50' L
Elev 3036.12'

18+91.74-10.00' L
= 50+40.00-12.00' R
Elev 3035.91'

18+79.74-10.00' L
= 50+40.00-0.00' R
Elev 3036.03'

18+67.74-5.00' L
= 50+35.00-12.00' L
Elev 3036.10'

18+91.74-5.00' L
= 50+35.00-12.00' R
Elev 3035.86'

18+67.74-0.00' R
= 50+30.00-12.00' L
Elev 3036.05'
End 25' Rad

18+91.74-0.00' R
= 50+30.00-12.00' R
Elev 3035.81'

18+97.61-5.00' L
= 50+35.00-17.00' R
Elev 3035.81'

19+11.57-5.02' L
Elev 3035.75'

19+11.57-0.00' R
Elev 3035.68'

18+65.24-0.00' R
= 50+30.00-14.50' L
Elev 3036.07'

18+79.74-0.00' R
= 50+30.00-0.00' R
Elev 3035.93'

18+97.18-0.00' R
= 50+30.00-17.44' R
Elev 3035.75'

18+63.90-0.00' R
= 50+28.66-14.50' L
Elev 3036.07'

18+96.74-0.00' R
= 50+30.00-17.00' R
Elev 3035.76'

18+62.56-0.00' R
= 50+27.50-15.17' L
Elev 3036.07'

18+42.35-5.00' L
Elev 3035.53'

18+91.74-10.00' R
= 50+20.00-12.00' R
Elev 3035.70'
End 15' Rad

18+79.74-16.00' R
= 50+14.00-0.00' R
Elev 3035.77'
Xr19 VPI

18+49.56-4.48' R
= 50+14.00-17.79' L
Elev 3035.94'

18+92.99-16.00' R
= 50+14.00-13.25' R
Elev 3035.63'
Arc Low Point

18+42.35-0.00' R
Elev 3035.60'

18+48.13-0.00' R
Elev 3035.60'

18+45.24-0.00' R
Elev 3035.60'

18+32.07-7.50' R
= 50+05.00-37.00' L
Elev 3035.62'
Begin 25' Rad

18+32.07-12.50' R
= 50+00.00-37.00' L
Elev 3035.75'

18+46.33-26.89' R
= 50+00.00-0.00' R
Elev 3036.05'

19+02.25-26.28' R
= 50+05.00-27.00' R
Elev 3035.68'
Begin 15' Rad

19+01.38-31.20' R
= 50+00.00-27.00' R
Elev 3035.94'

50+40

50+00

N01°54'00"E

N88°06'00"W

N58°06'00"W

N08°06'00"W

19+00

-1.00%

-4.10%

-3.23%

-0.38%

-0.52%

-1.50%

-1.07%

-2.00%

5'

R 25'

R 15'

LEGEND

- 6" Asphalt & 6" Gravel Cushion
- 4" Conc SW & 4" Gravel Cushion
- 6" Conc SW & 4" Gravel Cushion
- 6" PCC Approach Pavement & 4" Gravel Cushion
- 8" PCC Approach Pavement & 4" Gravel Cushion
- 6" Gravel Surfacing
- Topsoil
- Detectable Warning
- Max Slope = 2.1%*
- Max Slope = 5.0%*

* This is the absolute maximum value allowed. The elevations and slopes shown in the plans should be followed but may be adjusted as needed.

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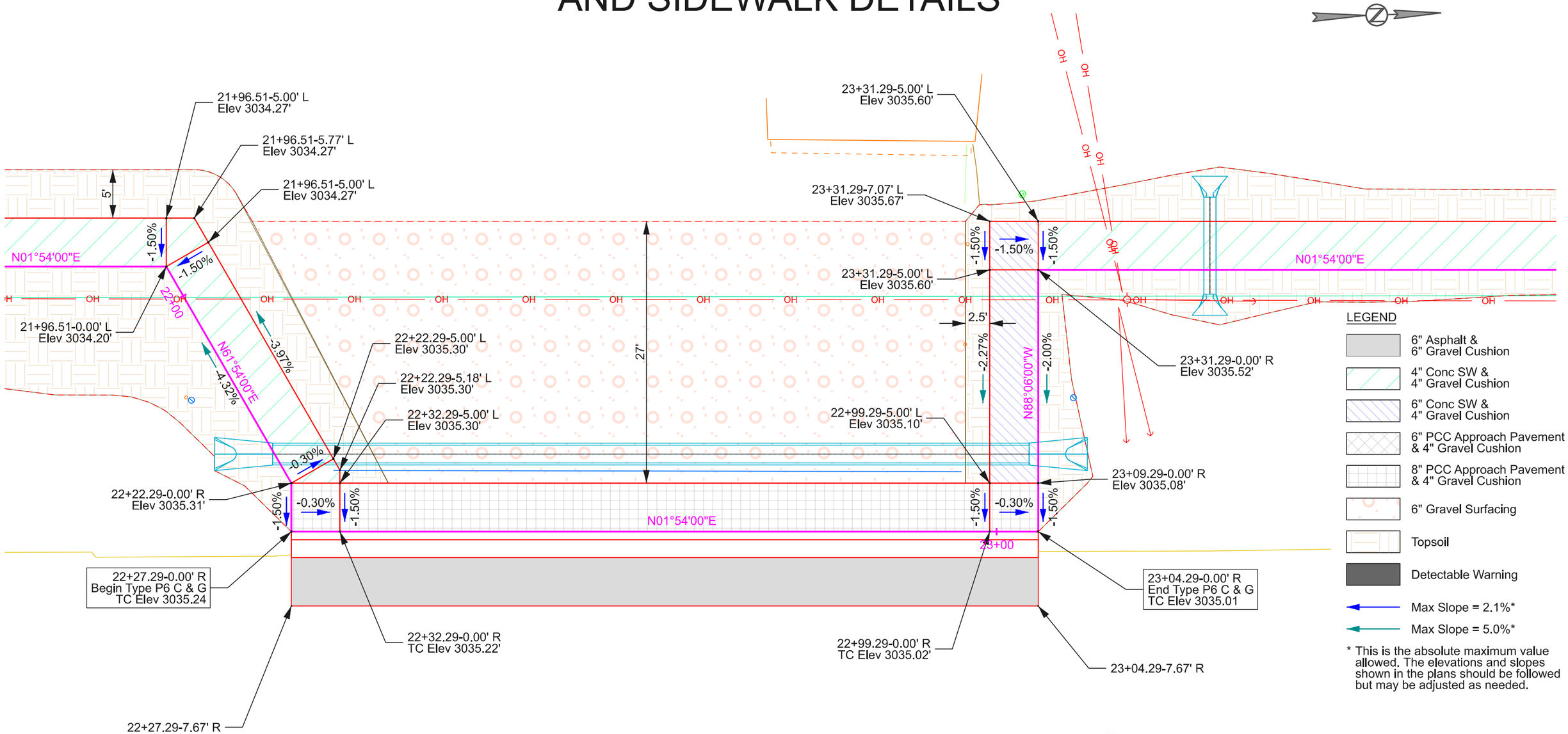
CURB & GUTTER, DRIVEWAY, AND SIDEWALK DETAILS

FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	38	68

Plotting Date: 10/1/2026



LEGEND

- 6" Asphalt & 6" Gravel Cushion
- 4" Conc SW & 4" Gravel Cushion
- 6" Conc SW & 4" Gravel Cushion
- 6" PCC Approach Pavement & 4" Gravel Cushion
- 8" PCC Approach Pavement & 4" Gravel Cushion
- 6" Gravel Surfacing
- Topsoil
- Detectable Warning
- Max Slope = 2.1%*
- Max Slope = 5.0%*

* This is the absolute maximum value allowed. The elevations and slopes shown in the plans should be followed but may be adjusted as needed.

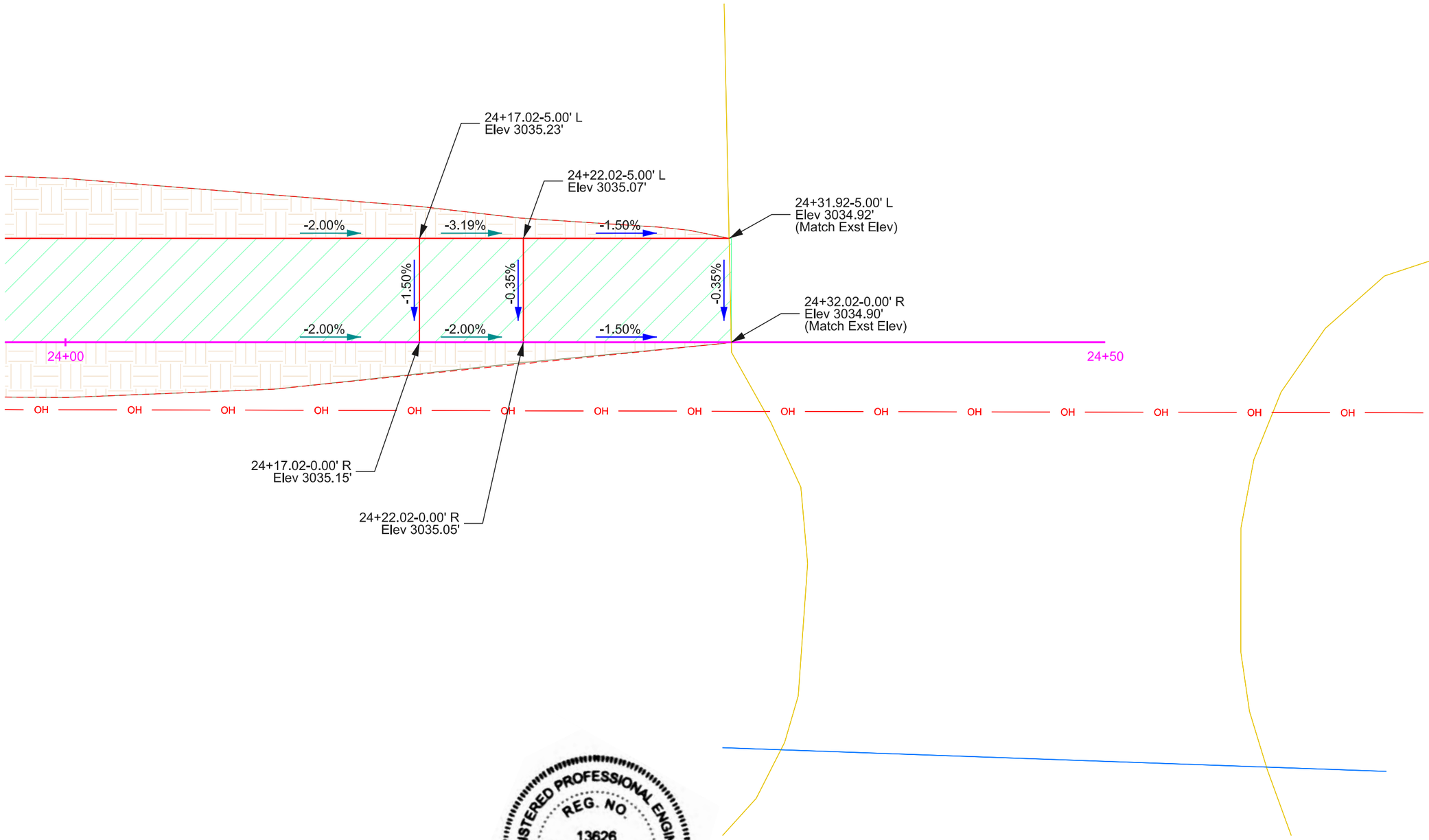
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CURB & GUTTER, DRIVEWAY, AND SIDEWALK DETAILS

FOR BIDDING PURPOSES ONLY

KLJ	SD DOT	PROJECT	SHEET	TOTAL SHEETS
		P TAPU(39)	39	68

Plotting Date: 10/1/2026



LEGEND

- 6" Asphalt & 6" Gravel Cushion
- 4" Conc SW & 4" Gravel Cushion
- 6" Conc SW & 4" Gravel Cushion
- 6" PCC Approach Pavement & 4" Gravel Cushion
- 8" PCC Approach Pavement & 4" Gravel Cushion
- 6" Gravel Surfacing
- Topsoil
- Detectable Warning
- Max Slope = 2.1%*
- Max Slope = 5.0%*

* This is the absolute maximum value allowed. The elevations and slopes shown in the plans should be followed but may be adjusted as needed.

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10/22/26

WALL DETAIL

FOR BIDDING PURPOSES ONLY

KLJ | SD DOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	40	68

Plotting Date: 10/1/2026

RETAINING WALL SPECIFICATIONS AND GENERAL NOTES

SUBMITTALS:

A. CONTRACTOR WILL SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR APPROVAL.

B. CONTRACTOR WILL SUBMIT MANUFACTURER'S TEST REPORTS CERTIFYING THAT THE WALL BLOCK UNITS MANUFACTURED AT THEIR PRODUCTION FACILITY MEET THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS.

C. ALL SUBMITTALS MUST BE PROVIDED AND REVIEWED PRIOR TO THE START OF RETAINING WALL CONSTRUCTION.

DELIVERY, STORAGE, AND HANDLING:

A. CONTRACTOR WILL INSPECT ALL PRODUCTS AT DELIVERY TO DETERMINE THAT THE PROPER MATERIALS HAVE BEEN DELIVERED AND ARE USEABLE. DAMAGED MATERIAL WILL NOT BE INCORPORATED INTO THE WORK.

B. RETAINING WALL UNITS WILL BE STORED IN A LOCATION AND MANNER THAT PROTECTS AGAINST EXCESSIVE WEATHERING AND DAMAGE.

C. CONTRACTOR WILL PREVENT RETAINING WALLUNITS FROM EXCESSIVE SOUND AND COMING IN CONTACT WITH SUBSTANCES WHICH MAY STAIN OR ADHERE TO THE FINISHED VISUAL SURFACES OF THE UNIT.

D. FACES OF THE WALL BLOCKS WILL BE FREE OF EXCESSIVE CHIPPING, CRACKING AND STAINS.

MANUFACTURERS:

ONLY LICENSED AND AUTHORIZED MANUFACTURERS OR APPROVED EQUAL OF:

RECON WALL SYSTEMS, INC.
7600 WEST 27TH ST., #229
ST. LOUIS PARK, MN 55426
(952) 922-0027 PHONE
(952) 922-0028 FAX
www.reconwalls.com

MATERIALS:

A. RETAINING WALL UNITS.

B. THE BLOCK UNIT WILL CONSIST OF CONCRETE WITH AVERAGE 28-DAY COMPRESSIVE STRENGTH OF NO LESS THAN 4000 PSI.

C. CONCRETE WILL HAVE AIR ENTRAINMENT BY VOLUME (AS MEASURED IN THE PLASTIC STATE IN ACCORDANCE WITH ASTM C172) OF 5.5 - 8.5 PERCENT.

D. EXTERIOR DIMENSION AT THE FACE WILL BE 48" BY 16" FOR FULL AND CORNER UNIT, AND 24" BY 16" FOR HALF UNIT.

E. DEPTH OF UNIT SHOULD BE AS PER CONSTRUCTION DRAWINGS AND IS AVAILABLE IN 24", 39", 45" OR 60" DEPTHS.

F. RECON UNIT FACE TEXTURE WILL BE "NORTH FACE GRANITE" AND WILL BE APPROVED BY THE OWNER.

G. BASE LEVELING PAD: THE WALL BASE LEVELING PAD MATERIAL WILL BE CONSTRUCTED OF COMPACTED AGGREGATE AS INDICATED IN THE CONSTRUCTION DRAWINGS.

H. DRAINAGE AGGREGATE: DRAINAGE AGGREGATE WILL CONSIST OF CLEAN 1" MINUS CRUSHED STONE OR GRAVEL MEETING THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS.

J. RETAINING WALL ADHESIVE: ADHESIVE WILL BE A PREMIUM, CONSTRUCTION GRADE SUITABLE
FOR CONCRETE AND EXTERIOR APPLICATIONS.

FINISHES:

A. RETAINING WALL COLOR WILL BE LEFT IN NATRUAL (AS-CAST) COLOR.

B. AN ANTI-GRAFFITI COATING WILL BE APPLIED TO ALL EXPOSED SURFACES OF THE RECON WALL AFTER INSTALLATION. ACCEPTABLE ANT-GRAFFITI COATINGS WILL BE TK PRODUCTS 1496 TK PERMACLEAN OTC, OR APPROVED EQUAL.

CONSTRUCTION REQUIREMENTS:

A. CONTRACTOR WILL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR WILL BE CAREFUL NOT TO DISTURB BASE BEYOND THE LINES INDICATED.

B. FOUNDATION SOIL WILL BE EVALUATED BY A GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE TO ENSURE THAT THE BEARING SOILS MEET OR EXCEED THE DESIGN CONDITIONS OR ASSUMPTIONS.

C. COMPACT FOUNDATION SOIL ZONE TO 95% STANDARD PROCTOR PRIOR TO INSTALLING BASE / LEVELING PAD.

D. OVER-EXCAVATED AREAS WILL BE FILLED WITH SUITABLE BASE OR BACKFILL MATERIAL AND COMPACTED TO 95% STANDARD PROCTOR.

E. WIDTH OF THE BASE PAD MUST EXTEND A MINIMUM OF 9 INCHES IN FRONT OF AND 9 INCHES IN BACK OF THE BASE BLOCK FOOTPRINT.

F. THE LEVELING PAD WILL PROVIDE A SMOOTH, HARD SURFACE ON WHICH TO PLACE THE FIRST COURSE OF UNITS.

G. BASE WILL BE PREPARED TO ENSURE FULL CONTACT OF THE WALL UNIT WITH BASE MATERIAL. SPACING OR GAPS BETWEEN UNITS WILL NOT EXCEED 1/2".

H. FIRST COURSE OF UNITS WILL BE BASE BLOCK UNITS AND WILL BE PLACED IN FULL CONTACT WITH THE BASE MATERIAL.

I. CHECK UNITS FOR LEVEL FROM SIDE-TO-SIDE, FRONT TO BACK, AND CHECK TO MAINTAIN UNIT BATTER FRONT-TO-BACK.

J. PLACE UNIT FACES IN CONTACT SIDE TO SIDE AND AVOID ANY GAPS GREATER THAN 1/2".

K. FILL AND COMPACT FILL TO GRADE IN FRONT OF EMBEDDED UNITS PRIOR TO COMPACTION BEHIND THE WALL UNITS.

L. FILL VOIDS BETWEEN RECON UNITS WITH 3/4" CLEAN CRUSHED ROCK TO A DISTANCE OF ONE FOOT BEHIND THE UNIT DEPTH UNLESS OTHERWISE INSTRUCTED IN THE CONSTRUCTION DRAWINGS.

M. SWEEP AND CLEAN THE TOP OF EACH COURSE BEFORE SETTING ADDITIONAL COURSES.

N. LAY EACH SUCCESSIVE COURSE MAKING SURE THAT THE BOTTOM RECESS IS IN FULL CONTACT WITH THE UNIT LOCATORS OF THE COURSE BELOW. PULL UNIT FORWARD AS FAR AS POSSIBLE. BACKFILL AND COMPACT SOIL BEHIND THE UNITS.

O. CHECK AND MAINTAIN LEVEL AND WALL BATTER BY USE OF SHIMS WHEN NECESSARY.

TOLERANCES:

STRAIGHT WALLS

A. VERTICAL ALIGNMENT: +/- 1.5" OVER ANY 12 FT. DISTANCE AND NO MORE THAN +/- 3" OVER ENTIRE LENGTH OF WALL.

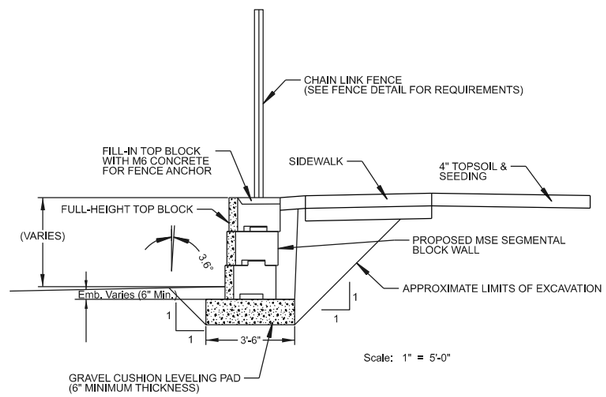
B. HORIZONTAL ALIGNMENT CONTROL:
1. CORNERS AND RADIUS LOCATION:V +/- 6" TO THEORETICAL LOCATION INDICATED ON THE GRADING PLAN.
2. RADII: +/- 6" FROM THEORETICAL LINES INDICATED ON THE GRADING PLAN.

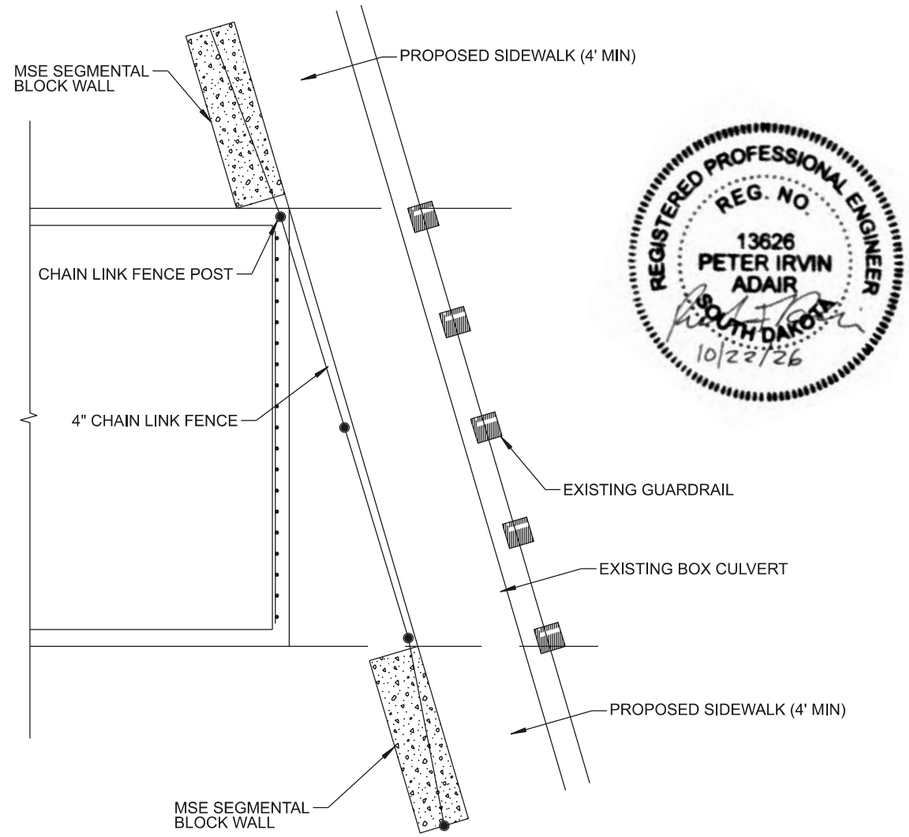
C. WALL BATTER AT COMPLETION OF WORK: +/- 2 DEGREES FROM THE DESIGN BATTER AND NO BATTER LESS THAN 2 DEGREES.

CLEANING:

A. AFTER COMPLETION OF WALL INSTALLATION, REMOVE CONSTRUCTION DEBRIS AND RESTORE ANY ADJACENT FINISHED AREAS AFFECTED BY WALL CONSTRUCTION TO THEIR PRE-CONSTRUCTION STATE.

B. WASH WALL FACE TO REMOVE SOILING AND STAINS. DO NOT USE ACID OR DETERGENTS THAT MAY "BURN" OR DISCOLOR FACE.





REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

GENERAL NOTE:

COST FOR EXCAVATION, MSE SEGMENTAL WALL BLOCKS AND INSTALLATION, CONCRETE FILL AND FINISHING FOR THE BLOCK WALL, AS DETAILED IN DRAWINGS, IS INCIDENTAL TO THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR MSE SEGMENTAL BLOCK WALL.

ESTIMATED QUANTITIES

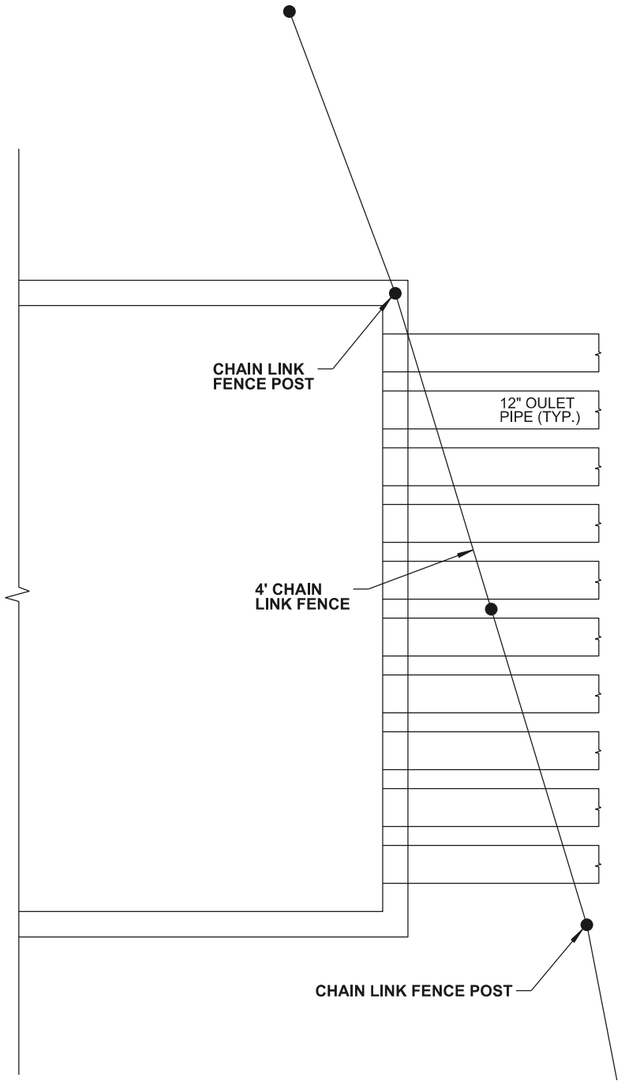
ITEM	UNIT	QUANTITY
MSE SEGMENTAL BLOCK WALL	SQ FT	256
GRAVEL CUSHION	TON	17.0
4' CHAIN LINK FENCE W/ TOP RAIL	FT	57

FENCE DETAIL

FOR BIDDING PURPOSES ONLY

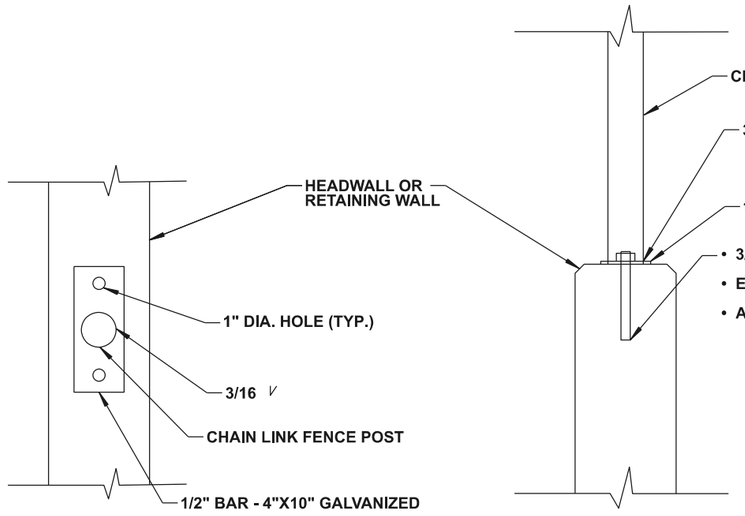
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	41	68

Plotting Date: 10/1/2026



PLAN VIEW - FENCE LAYOUT

Scale: 1/4" = 1'-0"



CHAIN LINK FENCE DETAILS

Scale: 1/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13626
PETER IRVIN ADAIR
SOUTH DAKOTA
10/22/26

CHAIN LINK FENCE

CHAIN LINK FENCE COMPONENTS AND POSTS WILL BE POWDER COATED, COLOR BROWN.

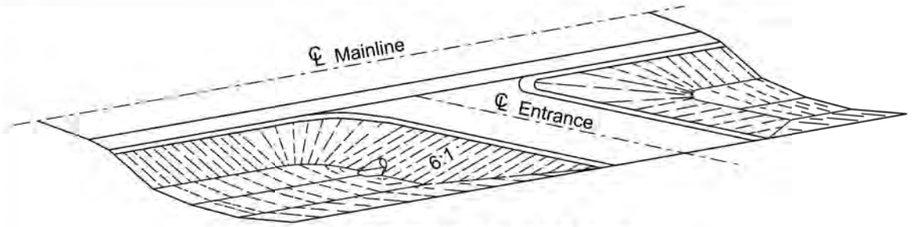
CHAIN LINK FABRIC WILL BE VINYL COATED, COLOR BROWN.

ROUND PIPE WILL BE USED FOR ALL POSTS, RAILS AND BRACES.

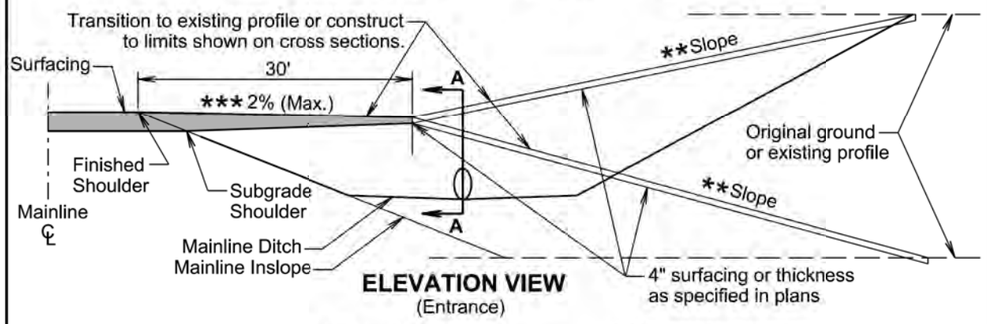
PULL POSTS WILL BE USED AT ENDS, CORNERS AND FENCE ANGLE POINTS.

FENCE FABRIC WILL BE KNUCKLED AT BOTH SELVAGES AND SPLICES IN FABRIC WILL BE MADE ONLY AT CORNERS OR BREAKS.

GALVANIZED ANCHOR PLATES, EXPANSION ANCHORS AND ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO ANCHOR THE FENCE TO THE STRUCTURES WILL BE INCIDENTAL TO THE OTHER FENCING BID ITEMS.



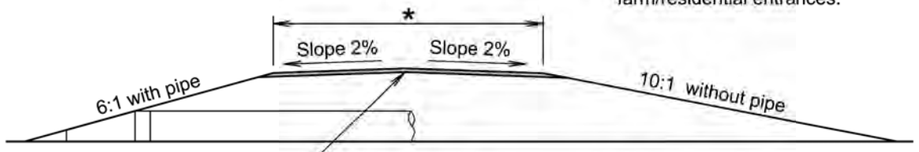
PERSPECTIVE OF ENTRANCE



ELEVATION VIEW
(Entrance)

*** 2% When on the inside of superelevation and 0% or flat when on outside of superelevation.

** Entrance maximum slope is typically 10:1 for field entrances and 15:1 for farm/residential entrances.



SECTION A-A
(Entrance and Intersecting Road)

* The finished surfacing width is stated elsewhere in the plans. The subgrade width is 4' wider than the finished surfacing width unless stated otherwise in the plans.

GENERAL NOTES:

The ditch section shown above in the perspective view is only for illustrative purpose.

The elevation view above is typical for either a ditch cut or fill section. Entrances that vary from above should be specified in the plans.

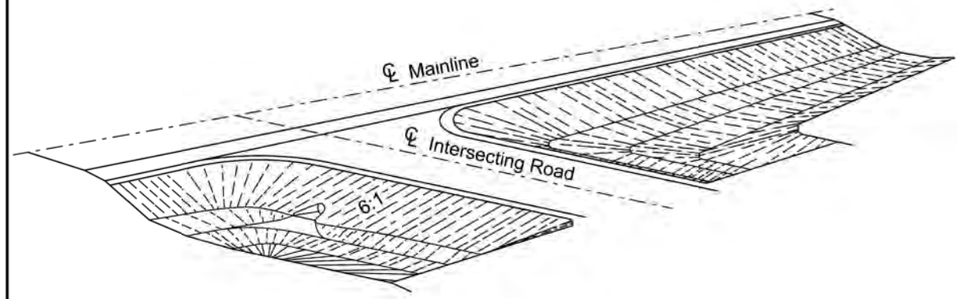
Pipe length will be adjusted if necessary during construction to obtain the 6:1 slope. For grading projects, the pipe length is estimated typically using a 4" thickness of surfacing directly over the subgrade above the pipe.

The transition area between the mainline inslope and the entrance or intersecting road inslope will be rounded to eliminate an abrupt transition.

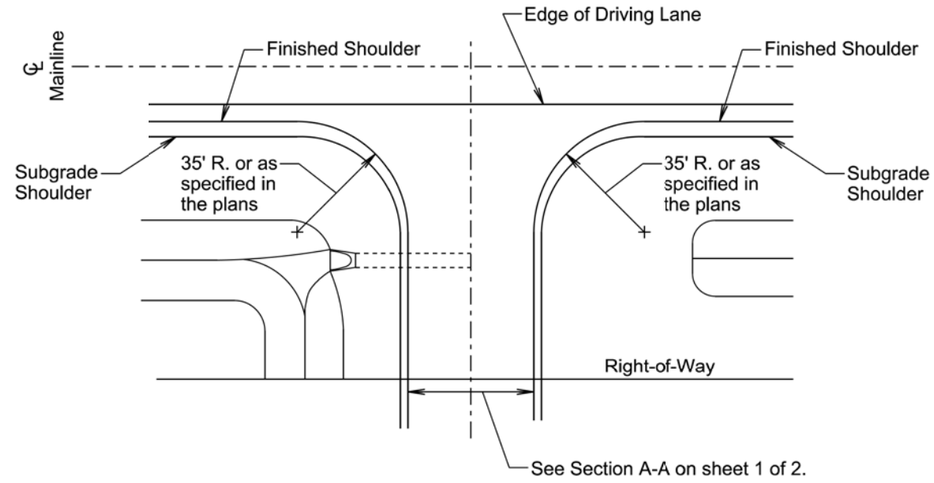
The turning radii will be 35' for intersecting roads and entrances unless stated otherwise in the plans.

November 19, 2021

Published Date: 2027	SDDOT	INTERSECTING ROADS AND ENTRANCES	PLATE NUMBER 120.01
			Sheet 1 of 2



PERSPECTIVE OF INTERSECTING ROAD



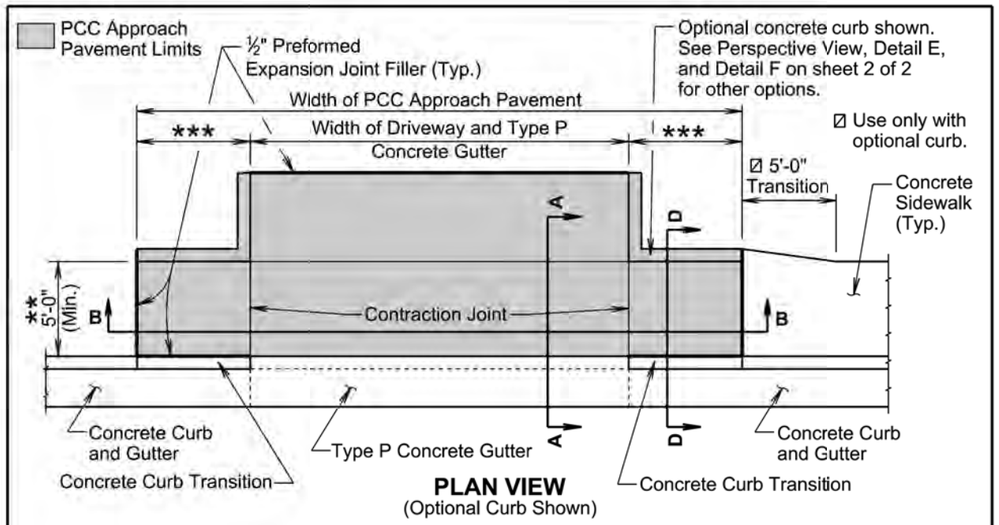
PLAN VIEW

GENERAL NOTES:

The 6:1 or 10:1 intersecting road inslope will transition to the existing intersecting road inslope near the right-of-way or at a location as determined by the Engineer.

November 19, 2021

Published Date: 2027	SDDOT	INTERSECTING ROADS AND ENTRANCES	PLATE NUMBER 120.01
			Sheet 2 of 2



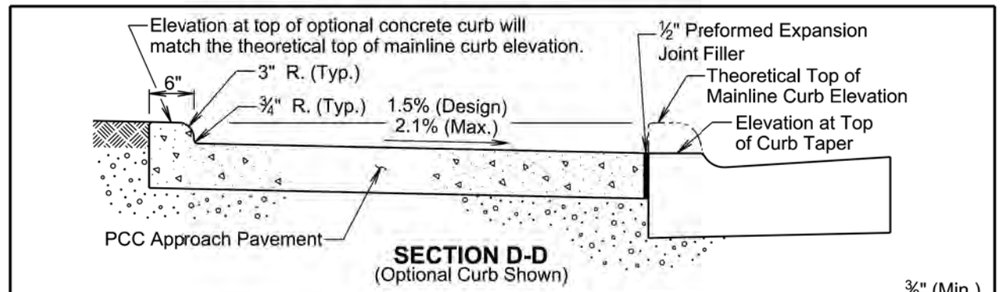
* 8 inches at Commercial Approaches

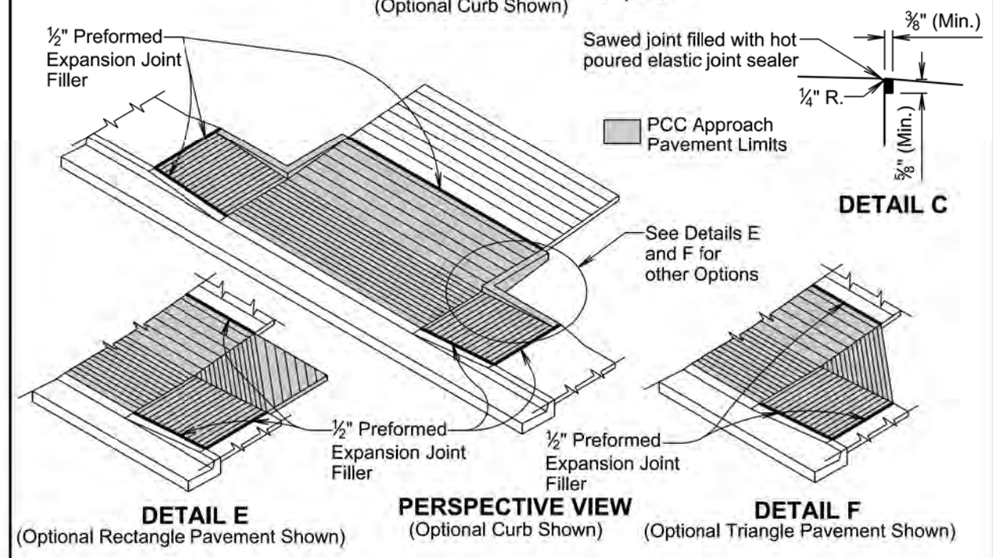
** Sidewalk width is 5 feet unless specified otherwise in the plans. The cross slope of the sidewalk is designed at 1.5% and will not be steeper than 2.1% unless specified otherwise in the plans.

*** The slope of the type B PCC approach pavement in these areas will match the slope of the concrete curb transition. The slope is designed at 4.5% and will not be steeper than 5% unless specified otherwise in the plans.

April 17, 2026

Published Date: 2027	SDDOT	TYPE B PCC APPROACH PAVEMENT	PLATE NUMBER 380.41
			Sheet 1 of 2





GENERAL NOTES:

Use the plan specified option for the pavement adjacent to the driveway and sidewalk. The options are shown above in the Perspective View, Detail E, and Detail F.

The concrete for the type B PCC approach pavement and adjacent driveway will comply with the requirements of the Specifications for class M6 concrete unless otherwise stated in the plans.

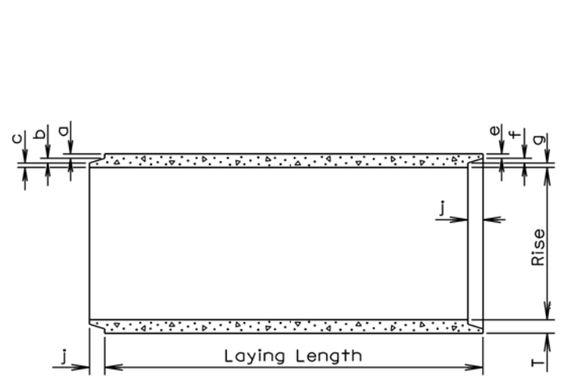
Contraction joints in the type B PCC approach pavement will be 1½ inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint will be at least ¼ the thickness of the approach pavement. Additional contraction joints not shown in the Plan View will be spaced as follows:

One joint at the center of the approach for driveways 16 feet to 24 feet wide.
Two joints spaced at equal intervals for driveways greater than 24 feet to 40 feet wide.

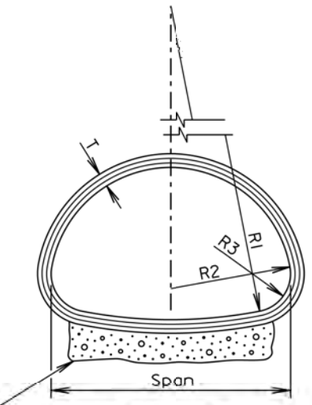
All costs for furnishing and placing the type B PCC approach pavement and constructing the expansion and contraction joints including labor, equipment, excavation, and materials including the earthen backfill and granular material will be incidental to the contract unit price per square yard for the corresponding PCC Approach Pavement contract item.

April 17, 2026

Published Date: 2027	SDDOT	TYPE B PCC APPROACH PAVEMENT	PLATE NUMBER 380.41
			Sheet 2 of 2



LONGITUDINAL SECTION



END VIEW

TOLERANCES IN DIMENSIONS

Radial dimensions at joints: ± 1/8" for 65" span or less and ± 1/4" for longer spans.
Rise and Span: ±2% of tabular values.
Length of Joint (J): ± 1/4".
Wall thickness (T): not less than design T by more than 5% or 3/16", whichever is greater.
Laying length: shall not underrun by more than 1/2".

Gravel Bedding Material shall be supplied for 102" to 169" spans. It shall be placed to a thickness of 6" (Min.) x 85% of the Span x Length of culvert and shall conform to the gradation requirements for gravel surfacing except material may be screened or may be plan provided material.

* Size (in.)	Approx. Wt./Ft. (lb.)	Rise (in.)	Span (in.)	T (in.)	a (in.)	b (in.)	c (in.)	j (in.)	e (in.)	f (in.)	g (in.)	R1 (in.)	R2 (in.)	R3 (in.)
18	170	13 1/2	22	2 1/2	1 3/8	3/8	3/4	2	1 1/8	3/8	1	27 1/2	13 3/4	5 1/4
24	320	18	28 1/2	3 1/2	1 5/8	1/2	1 3/8	3	1 3/8	1/2	1 5/8	40 11/16	14 3/4	4 5/8
30	450	22 1/2	36 1/4	4	1 13/16	5/8	1 9/16	3 1/2	1 9/16	5/8	1 13/16	51	18 3/4	6 1/8
36	600	26 5/8	43 3/4	4 1/2	2	3/4	1 3/4	4	1 3/4	3/4	2	62	22 1/2	6 1/2
42	740	31 5/16	51 1/8	4 1/2	2	3/4	1 3/4	4	1 3/4	3/4	2	73	26 1/4	7 3/4
48	890	36	58 1/2	5	2 1/4	3/4	2	5	2	3/4	2 1/4	84	30	8 7/8
54	1100	40	65	5 1/2	2 1/2	3/4	2 1/4	5	2 1/4	3/4	2 1/2	92 1/2	33 3/8	10
60	1400	45	73 1/2	6	3 5/16	3/4	1 15/16	5	2 3/4	3/4	2 1/2	105	37 1/2	11
72	1900	54	88	7	3 13/16	1	2 3/16	6	3 1/4	1	2 3/4	126	45	13 5/16
84	2500	62	102	8	4 1/8	1	2 7/8	6	3 1/2	1	3 1/2	162 1/2	52	14 1/2
96	3300	78	122 3/8	9	4 1/2	1	3 1/2	7	4	1	4	218	62	20
108	4200	88	138 1/2	10	5	1	4	7	4 1/2	1	4 1/2	269	70	22
120	5100	96 7/8	154	11	5 1/2	1	4 1/2	7	5	1	5	301 3/8	78	24
132	5100	106 1/2	168 3/4	10		1	4	7	4 1/2	1	4 1/2	329	85 5/8	26 7/8

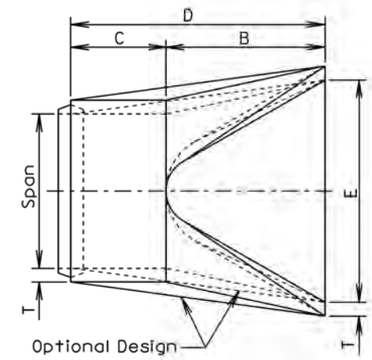
* Equivalent Diameter of Circular R. C. P.

GENERAL NOTES:

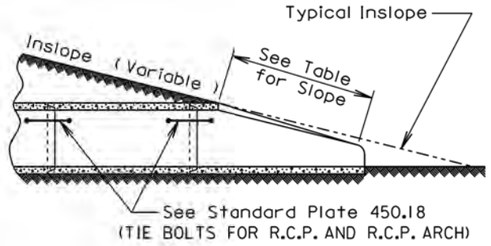
Construction of R.C.P. Arch shall conform to the requirements of Section 990 of the Specifications. Not more than 2 four-foot sections shall be permitted near the ends of any culvert. Four-foot lengths shall be used only to secure the required length of culvert.

June 26, 2015

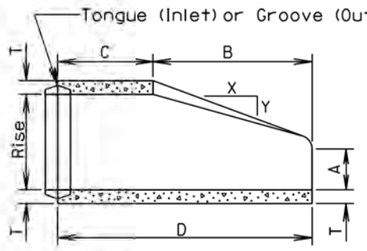
Published Date: 2027	SDDOT	REINFORCED CONCRETE PIPE ARCH	PLATE NUMBER 450.02
			Sheet 1 of 1



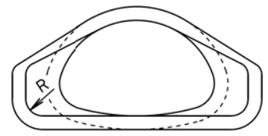
TOP VIEW



SLOPE DETAIL



LONGITUDINAL SECTION



END VIEW

GENERAL NOTES:

Lengths of concrete pipe shown on plan sheets are between flared ends only.

Construction of R. C. P. Arch Flared End shall conform to the requirements of Section 990 of the Specifications.

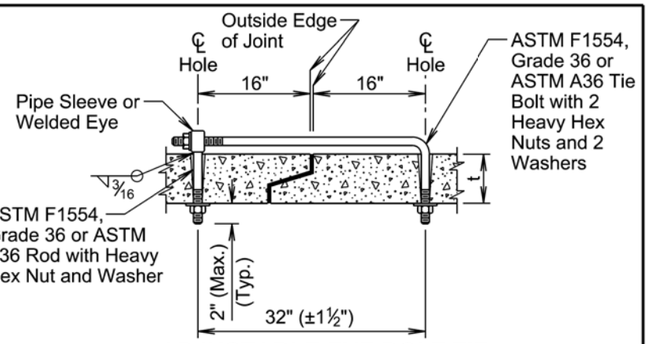
* Size (in.)	Approximate Weight of Section (lbs.)	Rise (in.)	Span (in.)	Slope (X:Y)	T (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	R (in.)
18	1100	13 1/2	22	3:1	2 1/2	7	27	45	72	36	2
24	1750	18	28 1/2	3:1	3 1/2	8 1/2	39	33	72	48	3
30	3300	22 1/2	36 1/4	3:1	4	9 1/2	50	46	96	60	3
36	4350	26 5/8	43 3/4	3:1	4 1/2	1 1 1/8	60	36	96	72	6
42	5250	31 5/16	51 1/8	3:1	4 1/2	15 13/16	60	36	96	78	6
48	6400	36	58 1/2	3:1	5	21	60	36	96	84	6
54	7850	40	65	3:1	5 1/2	25 1/2	60	36	96	90	6
60	9500	45	73 1/2	3:1	6	31	60	36	96	96	6
72	13550	54	88	2:1	7	31	60	39	99	120	6
84	17950	62	102	2:1	8	28 1/2	83	19	102	144	6

* Equivalent Diameter of Circular R. C. P.

June 26, 2015

Published Date: 2027	SDDOT	R. C. P. ARCH FLARED ENDS	PLATE NUMBER 450.11
			Sheet 1 of 1

Wall "t" (in.)	Rod Dia. (in.)	Pipe Sleeve Dia. (nominal)
≤ 3¼	⅝	¾
3½-6½	¾	1
≥ 7	1	1¼



ADJUSTABLE EYE BOLT TIE

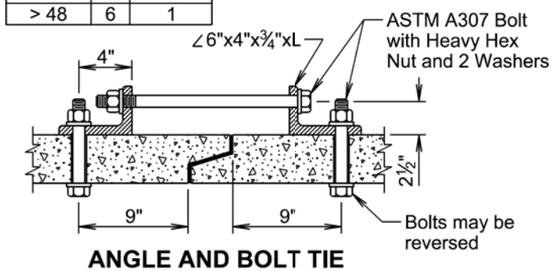
GENERAL NOTES:

Tie bolts will conform to ASTM F1554, Grade 36 or ASTM A36. Nuts will be heavy hex conforming to ASTM A563. Washers will conform to ASTM F436.

Pipe Sleeve will conform to ASTM A53, Grade B or ASTM A500, Grade B or C.

Galvanize adjustable eye bolt tie assembly in accordance with ASTM A153.

Pipe Dia. (in.)	"L" (in.)	Bolt Dia. (in.)
≤ 48	4	¾
> 48	6	1



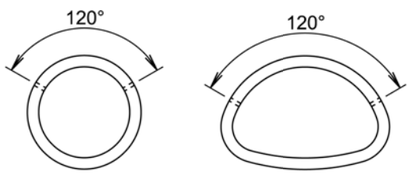
ANGLE AND BOLT TIE

GENERAL NOTES:

Angles will conform to ASTM A36.

Bolts will conform to ASTM A307. Nuts will be heavy hex conforming to ASTM A563. Washers will conform to ASTM F436.

Galvanize angles, bolts, nuts, and washers in accordance with ASTM A153.



END VIEW (Circular)

END VIEW (Arch)

GENERAL NOTES:

In lieu of the tie bolts detailed above other types of tie bolt connections may be installed as approved by the Office of Bridge Design.

All pipe sections of R.C.P. and R.C.P. Arch will be tied with tie bolts except for pipe located between drop inlets, manholes, and junction boxes. All pipe sections of pipes that only enter or exit drop inlets, manholes, and junction boxes will be tied with tie bolts.

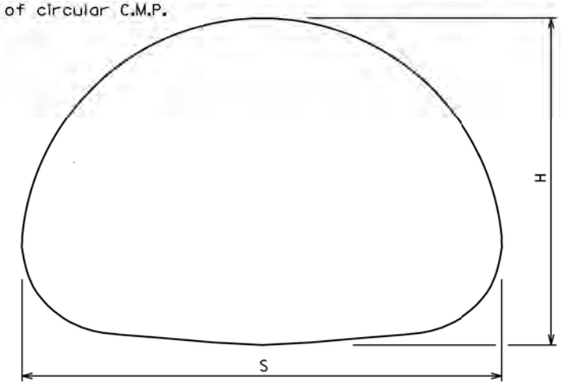
There will be no separate measurement or payment for the tie bolts. The cost for furnishing and installing the tie bolts will be incidental to the contract unit price per foot for the corresponding bid item for R.C.P. or R.C.P. Arch.

April 8, 2025

Published Date: 2027	SDDOT	TIE BOLTS FOR R.C.P. AND R.C.P. ARCH	PLATE NUMBER 450.18
			Sheet 1 of 1

	2⅔" x ½" CORRUGATIONS			3" X 1" CORRUGATIONS		
* Dia. (in.)	S Span (in.)	H Rise (in.)	Area (Sq. Ft.)	S Span (in.)	H Rise (in.)	Area (Sq. Ft.)
15	17	13	1.1			
18	21	15	1.6			
21	24	18	2.2			
24	28	20	2.8			
30	35	24	4.4			
36	42	29	6.4	40	31	7.0
42	49	33	8.7	46	36	9.4
48	57	38	11.4	53	41	12.3
54	64	43	14.3	60	46	15.6
60	71	47	17.6	66	51	19.3
66	77	52	21.3	73	55	23.2
72	83	57	25.3	81	59	27.4
78				87	63	32.1
84				95	67	37.0
90				103	71	42.4
96				112	75	48.0
102				117	79	54.2
108				128	83	60.8
114				137	87	67.4
120				142	91	74.5

* Equivalent diameter of circular C.M.P.

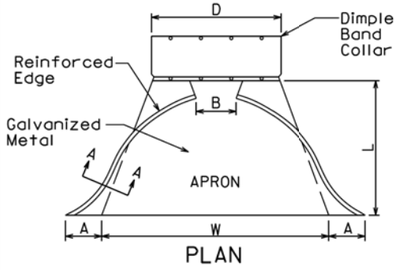


GENERAL NOTE:
All dimensions measured from inside crest.

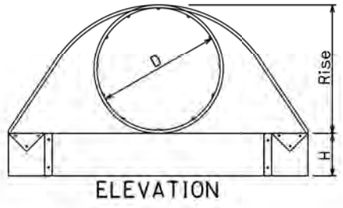
March 31, 2000

Published Date: 2027	SDDOT	CORRUGATED METAL PIPE ARCH CULVERT	PLATE NUMBER 450.30
			Sheet 1 of 1

Alternate Type Connector Sections may be used with approval of the Engineer.



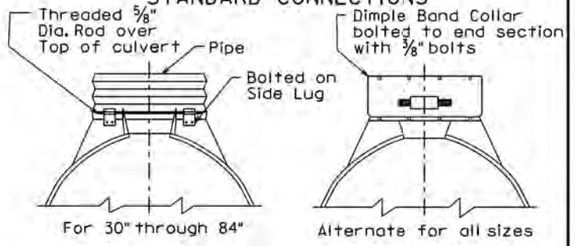
PLAN

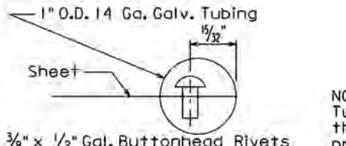


ELEVATION

Dia. D (in.)	Ga.	DIMENSIONS (in.) A	B	H	L	W	Approx. Slope	Body
12	16	6	6	6	21	24	2½:1	1 Pc.
15	16	7	8	6	26	30	2½:1	1 Pc.
18	16	8	10	6	31	36	2½:1	1 Pc.
21	16	9	12	6	36	42	2½:1	1 Pc.
24	16	10	13	6	41	48	2½:1	1 Pc.
30	14	12	16	8	46	60	2½:1	1 Pc.
36	14	14	19	9	51	72	2½:1	2 Pc.
42	12	16	22	11	60	84	2½:1	2 Pc.
48	12	18	27	12	69	90	2¼:1	2 Pc.
54	12	18	30	12	78	102	2:1	3 Pc.
60	12	18	33	12	84	114	1¾:1	3 Pc.
66	12	18	36	12	87	120	1½:1	3 Pc.
72	12	18	39	12	87	126	1⅓:1	3 Pc.
78	12	18	42	12	87	132	1¼:1	3 Pc.
84	12	18	45	12	87	138	1⅙:1	3 Pc.

STANDARD CONNECTIONS

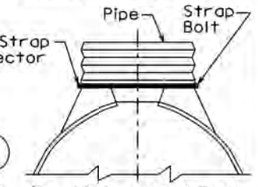


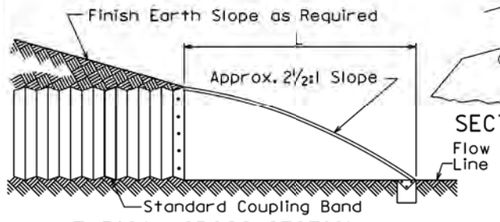


⅜" x ½" Gal. Buttonhead Rivets spaced 6" C. to C. Overall length of rivets=0.78"

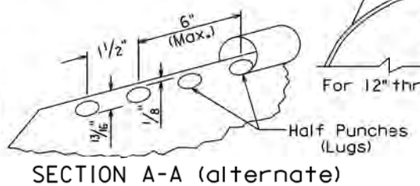
TUBING ATTACHMENT DETAILS
SECTION A-A

NOTE:
Tubing is slipped over the sheet and rivets or lugs prior to forming operations of the apron.

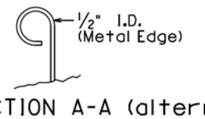




TYPICAL CROSS-SECTION



SECTION A-A (alternate)



SECTION A-A (alternate)

GENERAL NOTES:

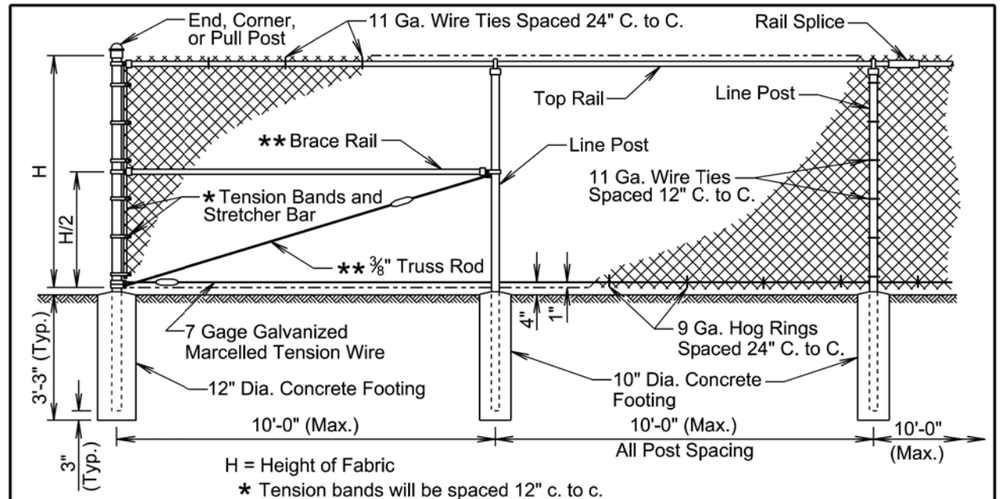
All 3 pc. bodies shall have 12 Ga. sides and 10 Ga. center panels. Width of center panels shall be greater than 20% of the pipe periphery. Multiple panel bodies to have lap seams tightly joined by ⅜" Dia. galvanized rivets or bolts.

For 60" through 84" sizes, reinforced edges shall be supplemented with galvanized stiffener angles. The angles will be 2" x 2" x ¼" for 60" through 72" diameters and 2½" x 2½" x¼" for 78" and 84" diameters. The angles shall be attached by ⅜" diameter galvanized nuts and bolts.

Rivets and Bolts shall be ⅜" Dia. Min. for 10 Ga. and 12 Ga. sheet, and 5/16" Dia. Min. for 14 Ga. and 16 Ga. sheets. Tighten nuts with torque wrench to 25 lbs. torque.

March 31, 2000

Published Date: 2027	SDDOT	C.M.P. FLARED ENDS	PLATE NUMBER 450.35	Sheet 1 of 1



H = Height of Fabric

* Tension bands will be spaced 12" c. to c.

** Are not required for 3' through 5' height fences.

⬭ Tightening device such as shown on standard plate 621.03

COMPONENT	END, CORNER, and PULL POST		LINE POST			TOP and BRACE RAIL	
Type of Fabrication	Round Pipe Nominal	Roll Formed Steel	Round Pipe Nominal	"C" Section	H Beam Steel	Round Pipe Nominal	Roll Formed Steel
Size	3.00" O. D.	3.5"x3.5"	2.50" O. D.	1.875"x1.625"	2.25"x1.70"	1.625" O. D.	1.625"x1.25"
Weight (lb. / Ft.)	5.79 or 4.64	5.14	3.65 or 3.12	2.34	3.43	2.27 or 1.84	1.35

GENERAL NOTES:

Specific details of the component parts of the fence will be approved by the Engineer. Commercially available items produced specifically for the use intended will be used wherever possible in the construction of the fence.

Height of the fabric will be as shown in the plans. Fabric is available at the following heights: 36", 42", 48", 60", 72", 84", 96", 108", 120", and 144". Fabric heights 60 inches and less will be knuckled at both selvages. Fabric heights 72 inches and higher will be knuckled at one selvage and twisted at the other selvage.

Chain link fabric will be 2-inch mesh, No. 9 gage galvanized wire securely fastened to tension wire, line post, rails, braces, and stretcher bars.

Fence may be constructed with either round pipe, "C" section, "H" beam, or roll formed steel components as shown in the table above. Line posts may be round pipe, "C" section, or "H" beam. The corner post and rails will be either round pipe or roll formed steel. The type of components used must be approved by the Engineer prior to installation.

Where fence must cross small bodies of water such as drainage areas or ponds that could freeze during the winter, use 11 gage hog rings. Provide only two ties per tension wire and top rail between line posts.

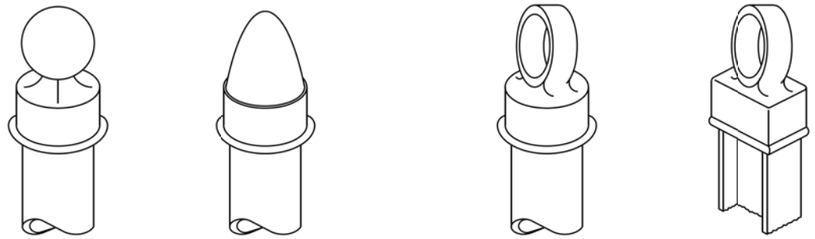
A suitable method of rail splicing will be used to allow for expansion and contraction while maintaining proper position of the top rail.

Fence grounding will be as shown on standard plate 620.11.

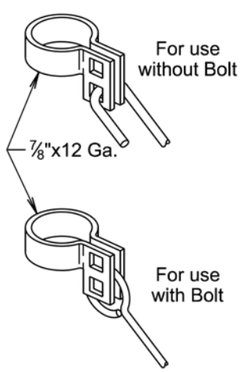
November 19, 2022

Published Date: 2027	SDDOT	CHAIN LINK FENCE WITH TOP RAIL	PLATE NUMBER 621.01	Sheet 1 of 1

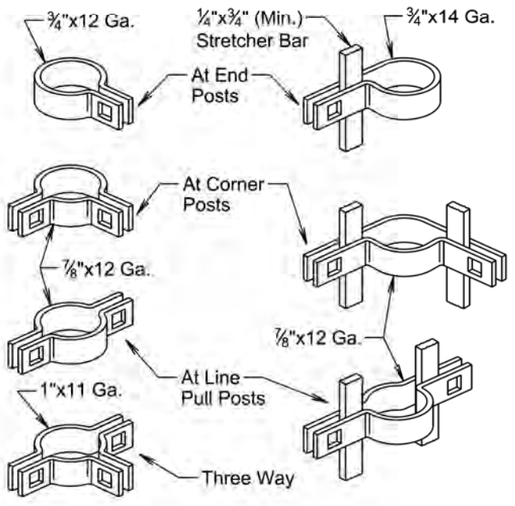
FOR BIDDING PURPOSES ONLY



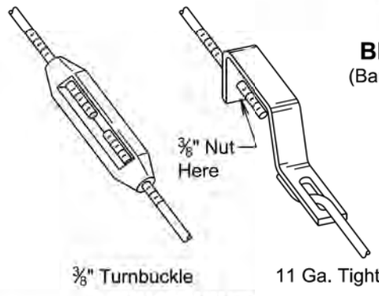
TYPICAL POST TOPS
(Shown for example only)



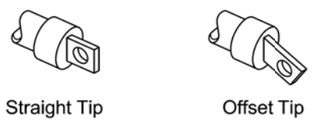
BRACE AND TRUSS BANDS



BRACE BANDS **TENSION BANDS**
(Bands will be rectangular for "C" Section and "H" Beam Posts.)



TIGHTENING DEVICES



RAIL ENDS

June 26, 2019

Published Date: 2027	SDDOT	HARDWARE FOR CHAIN LINK FENCE	PLATE NUMBER 621.03
			Sheet 1 of 1

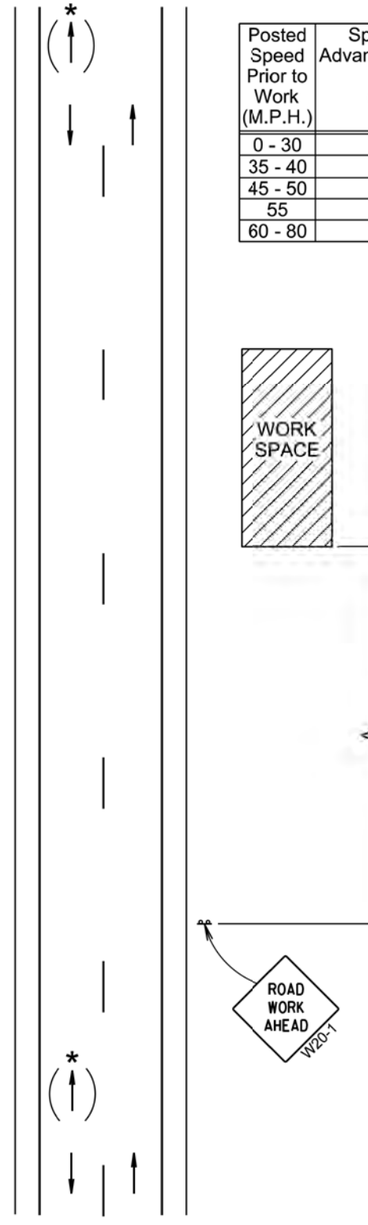
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

The signs illustrated will be used where there are distracting situations; such as: vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations.

The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

* If the work space is on a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

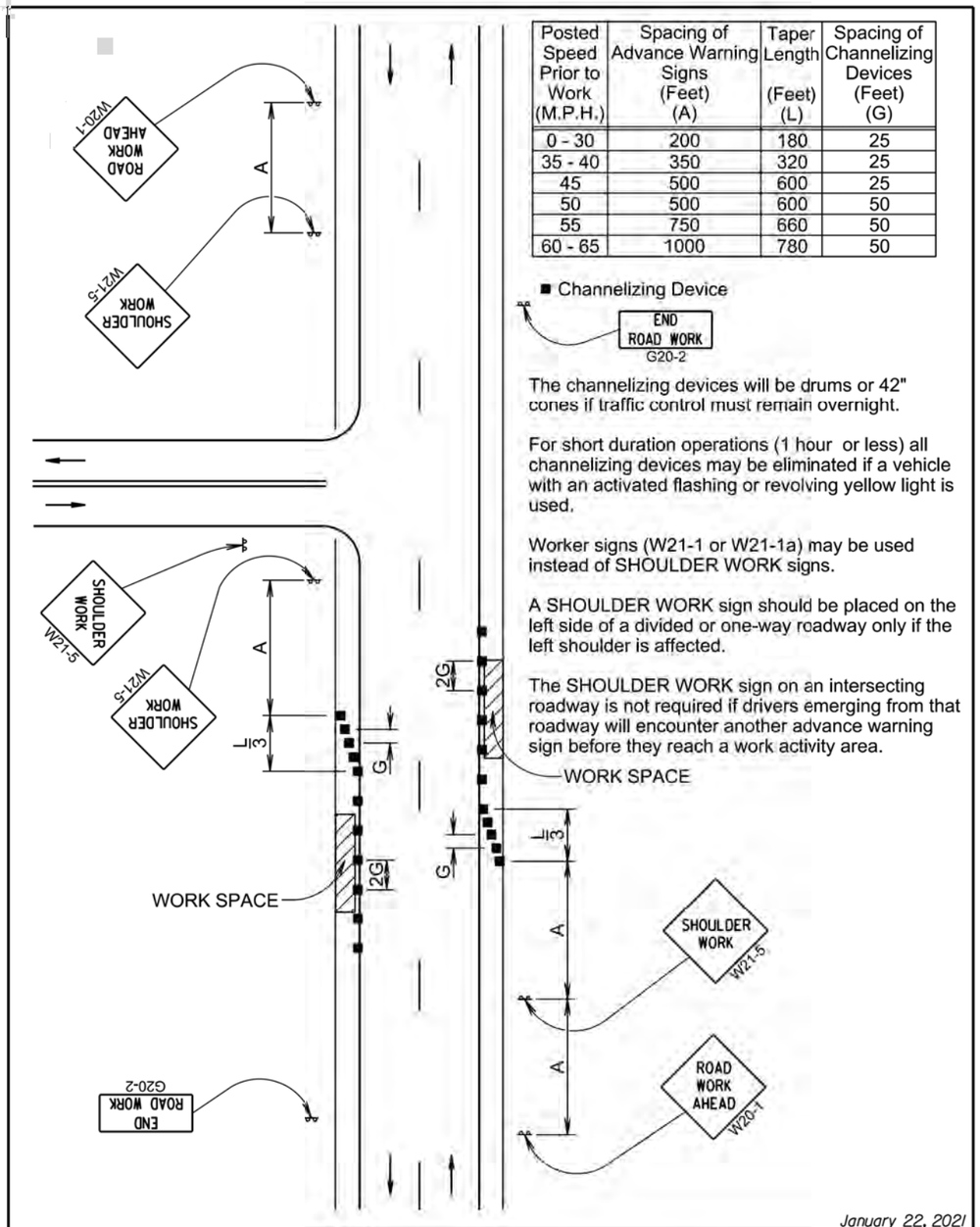
For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)
0 - 30	200
35 - 40	350
45 - 50	500
55	750
60 - 80	1000

January 22, 2021

Published Date: 2027	SDDOT	WORK BEYOND THE SHOULDER	PLATE NUMBER 634.01
			Sheet 1 of 1



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Taper Length (Feet) (L)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50
55	750	660	50
60 - 65	1000	780	50

■ Channelizing Device

END ROAD WORK G20-2

The channelizing devices will be drums or 42" cones if traffic control must remain overnight.

For short duration operations (1 hour or less) all channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.

Worker signs (W21-1 or W21-1a) may be used instead of SHOULDER WORK signs.

A SHOULDER WORK sign should be placed on the left side of a divided or one-way roadway only if the left shoulder is affected.

The SHOULDER WORK sign on an intersecting roadway is not required if drivers emerging from that roadway will encounter another advance warning sign before they reach a work activity area.

January 22, 2021

Published Date: 2027	SDDOT	WORK ON SHOULDERS	PLATE NUMBER 634.03
			Sheet 1 of 1

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	25
35 - 40	350	25
45	500	25
50	500	50
55	750	50
60 - 65	1000	50

Flagger

■ Channelizing Device

For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) will be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

The channelizing devices will be drums or 42" cones.

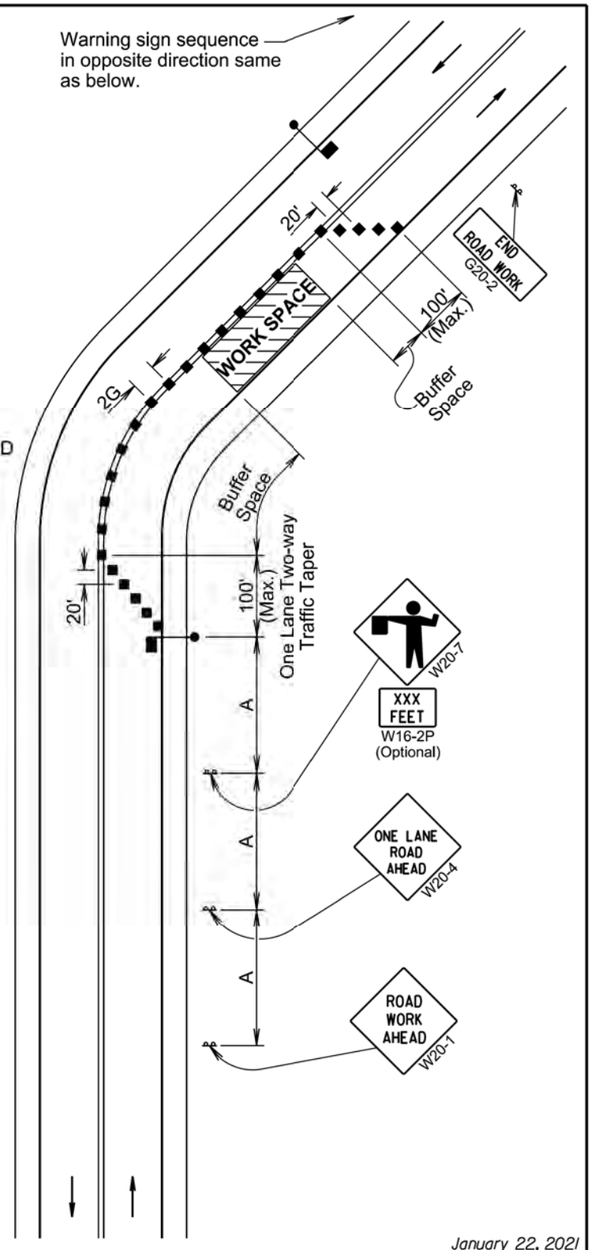
Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.

END ROAD WORK G20-2

Channelizing devices and flaggers will be used at intersecting roads to control intersecting road traffic as required.

The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

The length of A may be adjusted to fit field conditions.

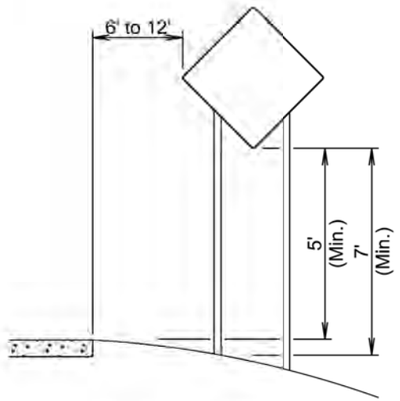


January 22, 2021

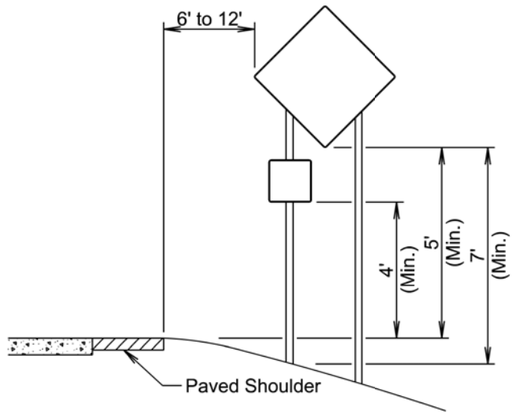
Published Date: 2027	SDDOT	LANE CLOSURE WITH FLAGGER PROVIDED	PLATE NUMBER 634.23
			Sheet 1 of 1

FOR BIDDING PURPOSES ONLY

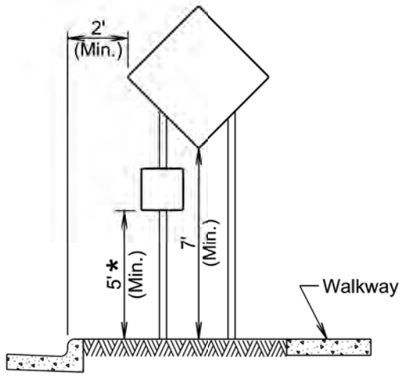
KLJ / SD DOT	PROJECT	SHEET	TOTAL SHEETS
Plotting Date: 10/1/2026	P TAPU(39)	49	68



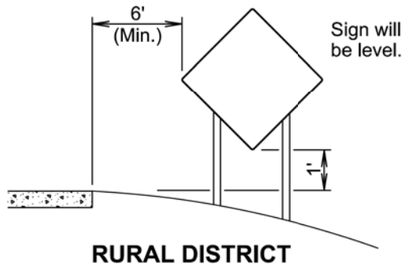
RURAL DISTRICT



RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT

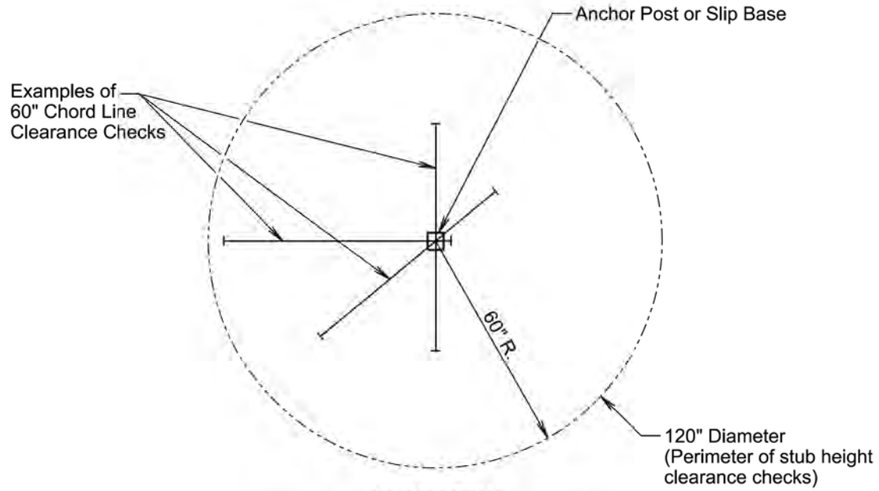


RURAL DISTRICT
3 DAY MAXIMUM
(Not applicable to regulatory signs)

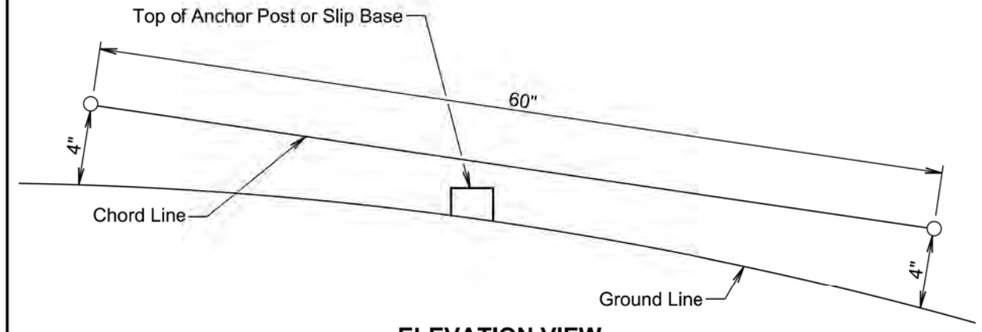
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

Published Date: 2027	SDDOT	CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
			Sheet 1 of 1



PLAN VIEW
(Examples of stub height clearance checks)



ELEVATION VIEW

GENERAL NOTES:

The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

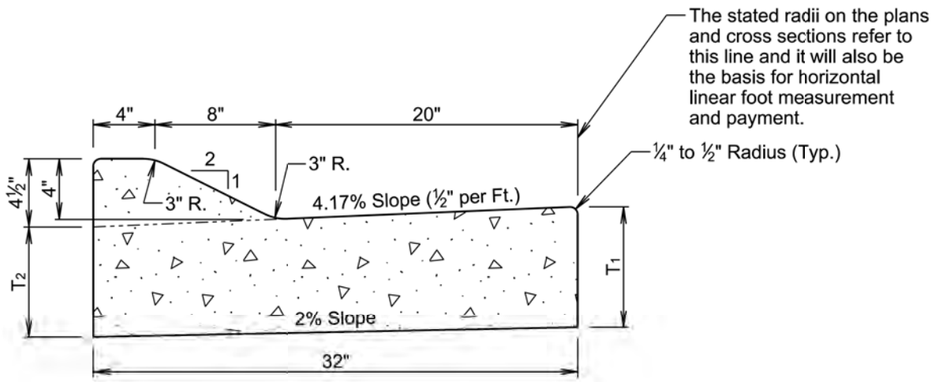
The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

January 22, 2021

Published Date: 2027	SDDOT	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1

Plotted From - isaacberg File - ...\Plans\09FW_StandardPlates.dgn

FOR BIDDING PURPOSES ONLY



TYPE D CONCRETE CURB AND GUTTER				
Type	T_1 (Inches)	T_2 (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
D46	6	$5\frac{5}{16}$	0.056	18.0
D47	7	$6\frac{5}{16}$	0.064	15.7
D48	8	$7\frac{5}{16}$	0.072	13.9
D48.5	8.5	$7\frac{13}{16}$	0.076	13.1
D49	9	$8\frac{5}{16}$	0.080	12.5
D49.5	9.5	$8\frac{13}{16}$	0.084	11.9
D410	10	$9\frac{5}{16}$	0.088	11.3
D410.5	10.5	$9\frac{13}{16}$	0.093	10.8
D411	11	$10\frac{5}{16}$	0.097	10.3
D411.5	11.5	$10\frac{13}{16}$	0.101	9.9
D412	12	$11\frac{5}{16}$	0.105	9.5

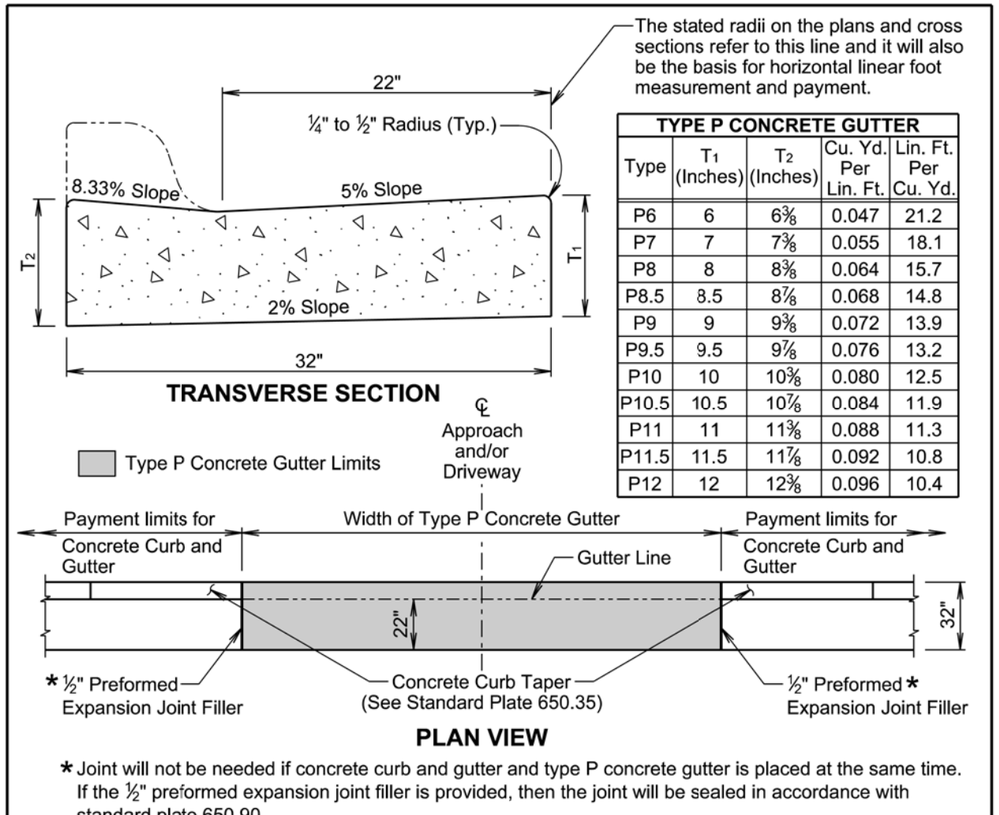
GENERAL NOTES:

When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment will be by one of the methods shown on standard plate 380.21.

See standard plate 650.90 for expansion and contraction joints in the curb and gutter.

January 22, 2023

Published Date: 2027	SDDOT	TYPE D CONCRETE CURB AND GUTTER	PLATE NUMBER 650.15	Sheet 1 of 1



TYPE P CONCRETE GUTTER				
Type	T_1 (Inches)	T_2 (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
P6	6	$6\frac{3}{8}$	0.047	21.2
P7	7	$7\frac{3}{8}$	0.055	18.1
P8	8	$8\frac{3}{8}$	0.064	15.7
P8.5	8.5	$8\frac{7}{8}$	0.068	14.8
P9	9	$9\frac{3}{8}$	0.072	13.9
P9.5	9.5	$9\frac{7}{8}$	0.076	13.2
P10	10	$10\frac{3}{8}$	0.080	12.5
P10.5	10.5	$10\frac{7}{8}$	0.084	11.9
P11	11	$11\frac{3}{8}$	0.088	11.3
P11.5	11.5	$11\frac{7}{8}$	0.092	10.8
P12	12	$12\frac{3}{8}$	0.096	10.4

* Joint will not be needed if concrete curb and gutter and type P concrete gutter is placed at the same time. If the ½" preformed expansion joint filler is provided, then the joint will be sealed in accordance with standard plate 650.90.

GENERAL NOTES:

The concrete for the type P concrete gutter will comply with the requirements of the specifications for class M6 concrete.

When concrete gutter longitudinally adjoins new concrete pavement, the method of attachment will be by one of the methods shown on standard plate 380.21.

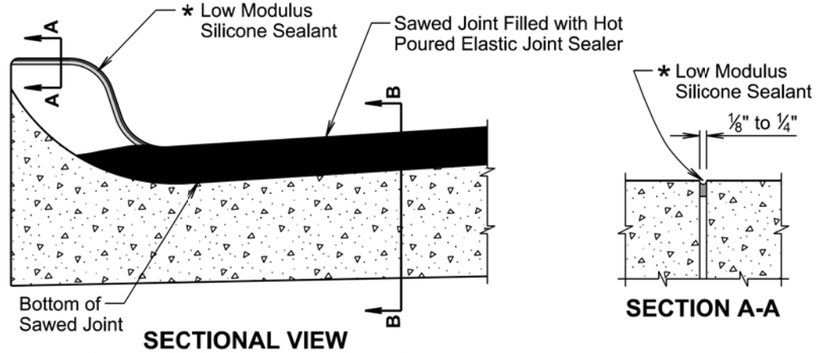
Transverse contraction joints will be constructed at 10-foot intervals in the concrete gutter except when concrete gutter is constructed adjacent to mainline PCC pavement. When concrete gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint will be constructed in the concrete gutter at each mainline PCC pavement transverse contraction joint location.

When concrete gutter is placed monolithically with mainline PCC pavement, the transverse contraction joints in the concrete gutter will be sawed and sealed the same as the transverse contraction joints in the mainline PCC pavement.

When concrete gutter is not placed monolithically with the mainline PCC pavement and when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete gutter will be 1½ inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint will be at least ¼ the thickness of the concrete.

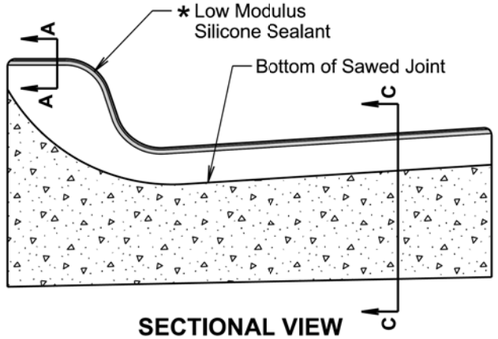
January 22, 2023

Published Date: 2027	SDDOT	TYPE P CONCRETE GUTTER	PLATE NUMBER 650.30	Sheet 1 of 1

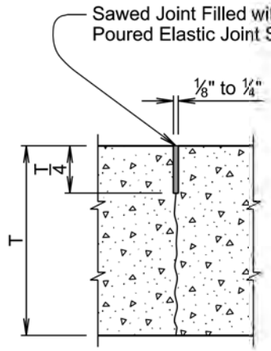


SECTIONAL VIEW
(Curb and Gutter Placed Monolithic with Adjacent Mainline PCC Pavement)

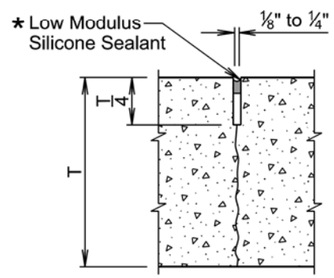
SECTION A-A



SECTIONAL VIEW
(Curb and Gutter not Placed Monolithic with Adjacent Mainline PCC Pavement or Mainline Surfacing is not PCC Pavement)



SECTION B-B

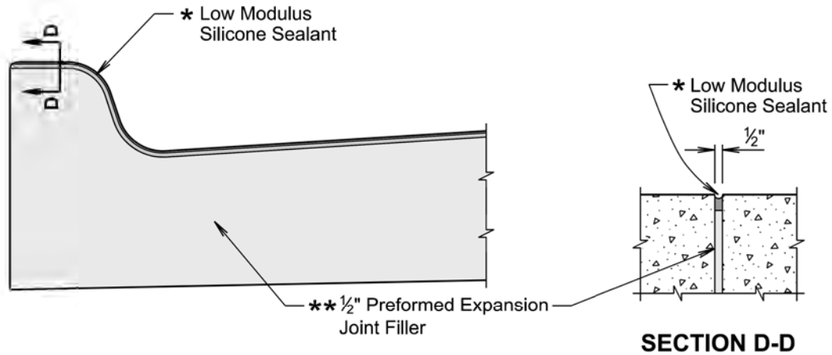


SECTION C-C

* The silicone sealant will be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

December 23, 2019

Published Date: 2027	SDDOT	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
			Sheet 1 of 2



SECTIONAL VIEW
(Curb and Gutter at ½" Preformed Expansion Joint Filler Location)

SECTION D-D

* The silicone sealant will be placed such that it completely seals the joint and is bonded to the sides of the clean joint as approved by the Engineer.

GENERAL NOTES:

For illustrative reason, only the type B curb and gutter is shown.

** A ½-inch preformed expansion joint filler will be placed transversely in the curb and gutter at the following locations:

At each junction between the radius return of curb and gutter, and curb and gutter which is parallel to the project centerline.

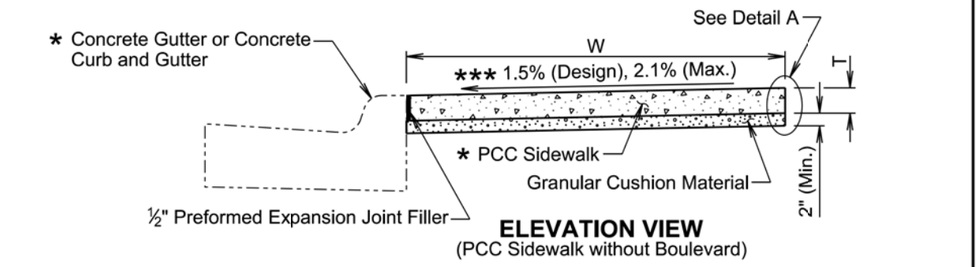
At each junction between new curb and gutter and existing curb and gutter.

Transverse contraction joints will be constructed at 10 foot intervals in the concrete curb and gutter except when the concrete curb and gutter is constructed adjacent to mainline PCC pavement. When concrete curb and gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint will be constructed in the concrete curb and gutter at each mainline PCC pavement transverse contraction joint location.

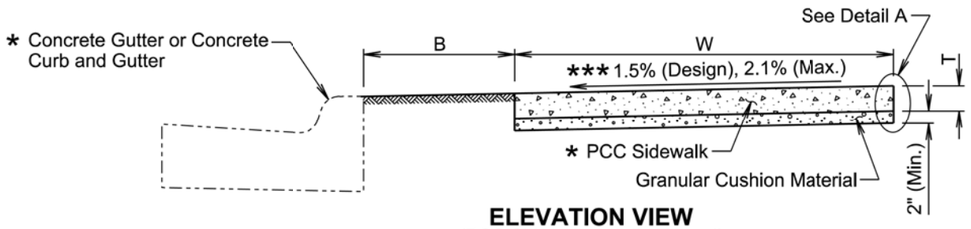
When concrete curb and gutter is not placed monolithically with the mainline PCC pavement or when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete curb and gutter will be 1½ inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint will be at least ¼ the thickness of the concrete and the joint will be sealed in accordance with the details shown above.

December 23, 2019

Published Date: 2027	SDDOT	JOINTS IN CONCRETE CURB AND GUTTER	PLATE NUMBER 650.90
			Sheet 2 of 2



ELEVATION VIEW
(PCC Sidewalk without Boulevard)



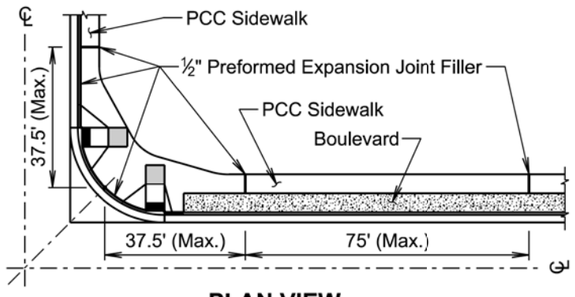
ELEVATION VIEW
(PCC Sidewalk with Boulevard)

B Width of boulevard as specified in the plans.

T Thickness of PCC sidewalk as specified in the plans.

W Width of PCC sidewalk as specified in the plans.

* Type as specified in the plans.



PLAN VIEW

GENERAL NOTES:

The PCC sidewalk will be constructed in accordance with Section 651 of the Specifications.

*** The cross slope of the sidewalk is designed at 1.5% and the maximum slope allowed is 2.1% unless specified otherwise in the plans.

The maximum length between expansion joints in the PCC sidewalk is 75 feet.

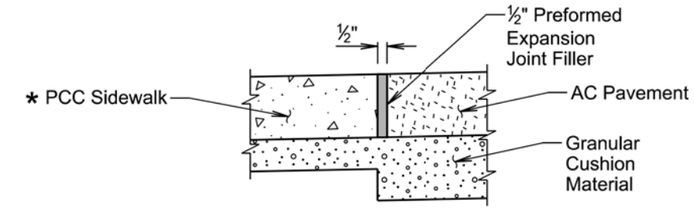
PCC sidewalk placed adjacent to intersection of roadways will have an expansion joint placed transversely a maximum of 37.5 feet from the intersection. See Plan View.

An expansion joint in the PCC sidewalk will consist of a ½ -inch thick preformed expansion joint filler material placed full depth and width of the PCC sidewalk.

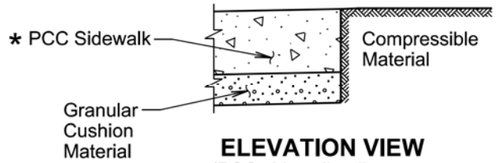
** Large areas of PCC pavement adjacent to the PCC sidewalk may require a different joint treatment than shown in the detail. If a different joint detail is necessary, plans will contain the joint detail and the Contractor will construct the joint treatment in accordance with the plans.

April 8, 2025

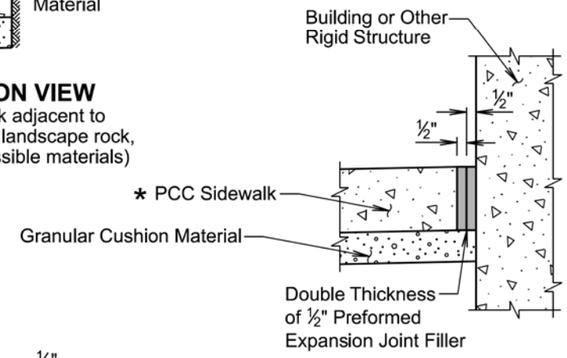
Published Date: 2027	SDDOT	PCC SIDEWALK	PLATE NUMBER 651.75
			Sheet 1 of 2



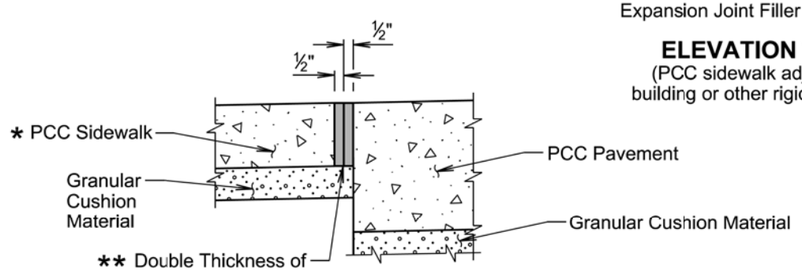
ELEVATION VIEW
(PCC sidewalk adjacent to asphalt concrete pavement)



ELEVATION VIEW
(PCC sidewalk adjacent to earthen material, landscape rock, or other compressible materials)



ELEVATION VIEW
(PCC sidewalk adjacent to building or other rigid structure)



ELEVATION VIEW
(PCC sidewalk adjacent to PCC pavement)

DETAIL A
(Use Appropriate Detail(s))

April 8, 2025

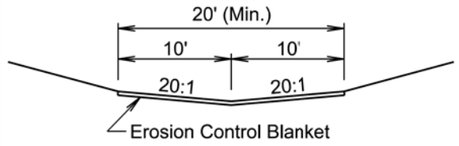
Published Date: 2027	SDDOT	PCC SIDEWALK	PLATE NUMBER 651.75
			Sheet 2 of 2

FOR BIDDING PURPOSES ONLY

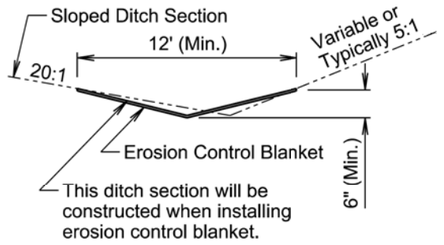
KLJ | SDDOT

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	53	68

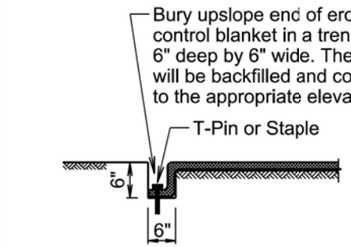
Plotting Date: 10/1/2026



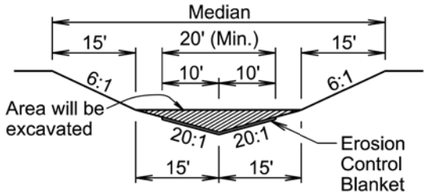
STANDARD DITCH SECTION



SLOPED DITCH SECTION

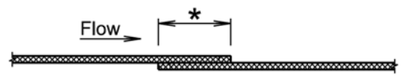


TRENCH DETAIL



The median will be shaped to the limits shown in this detail where the erosion control blanket will be placed.

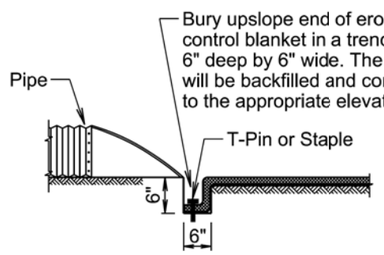
MEDIAN SECTION



* Use a 4" (Min.) overlap wherever two widths of erosion control blanket are applied side by side.

* Use a 6" (Min.) overlap wherever one roll of erosion control blanket ends and another begins.

OVERLAP DETAIL



PIPE END DETAIL

GENERAL NOTES:

Prior to placement of the erosion control blanket, the areas will be properly prepared, shaped, seeded, and fertilized.

Erosion control blanket will be unrolled in the direction of the flow of water when placed in ditches and on slopes. The upslope end of the erosion control blanket will be buried in a trench 6" wide by 6" deep. There will be at least a 6" overlap wherever one roll of erosion control blanket ends and another begins, with the upslope erosion control blanket placed on top of the downslope erosion control blanket.

The erosion control blanket will be pinned to the ground according to the manufacturer's installation recommendations.

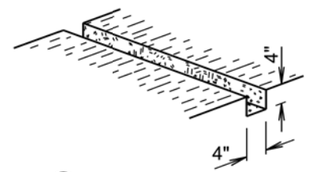
After the placement of the erosion control blanket, the Contractor will fine grade along all edges of the blanket to maintain a uniform slope adjacent to the blanket and level any low spots which might prevent uniform and unrestricted flow of side drainage directly onto the erosion control blanket.

All ditch sections will be shaped when installing the erosion control blanket. All costs for shaping the ditches will be incidental to the contract unit price per foot for "Shaping for Erosion Control Blanket".

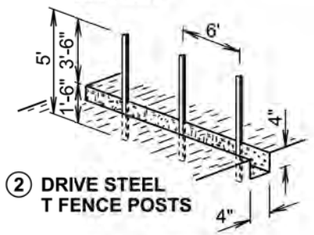
February 14, 2020

Published Date: 2027	SDDOT	***EROSION CONTROL BLANKET***	***PLATE NUMBER 734.01*** *Sheet 1 of 1*

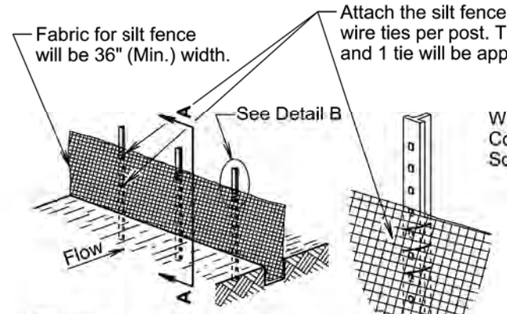
MANUAL HIGH FLOW SILT FENCE INSTALLATION



(1) EXCAVATE TRENCH

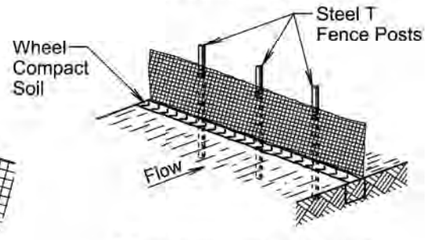


(2) DRIVE STEEL T FENCE POSTS

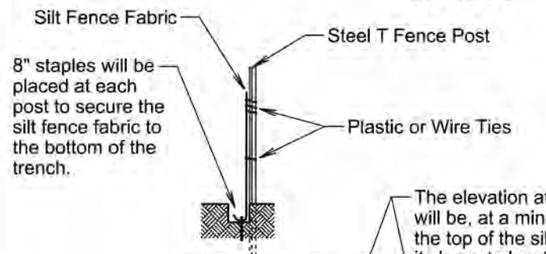


(3) ATTACH SILT FENCE FABRIC

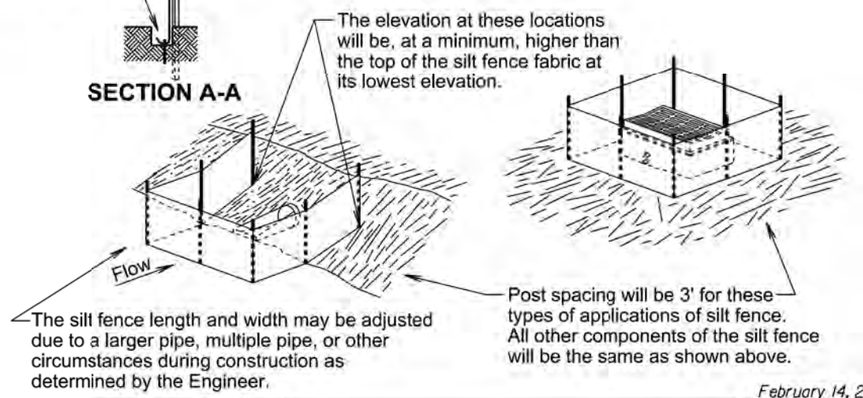
DETAIL B



(4) BACKFILL TRENCH AND WHEEL COMPACT SOIL



SECTION A-A

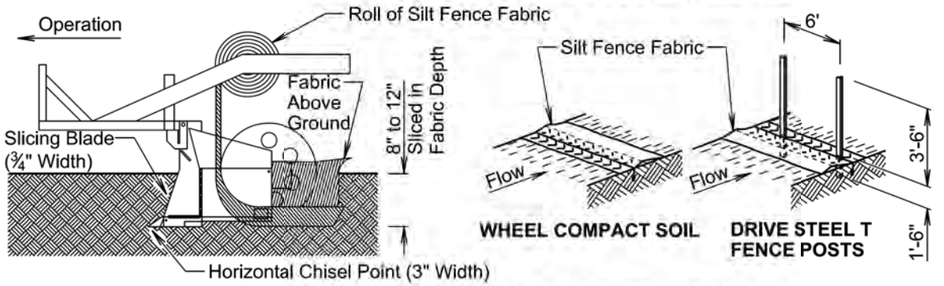


February 14, 2020

Published Date: 2027	SDDOT	***HIGH FLOW SILT FENCE***	***PLATE NUMBER 734.05*** *Sheet 1 of 2*

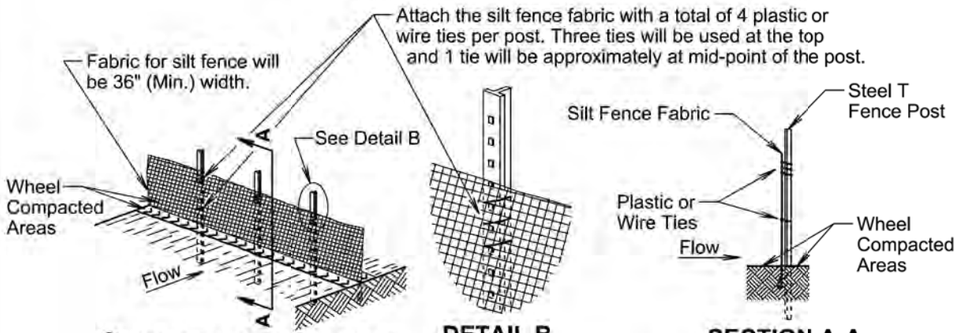
FOR BIDDING PURPOSES ONLY

MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION

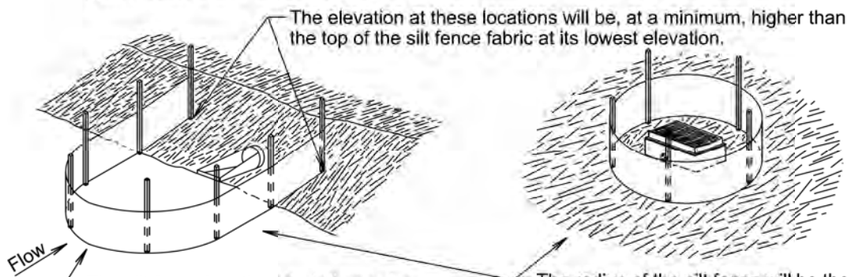


(1) INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.

(2) WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.



(3) ATTACH SILT FENCE FABRIC

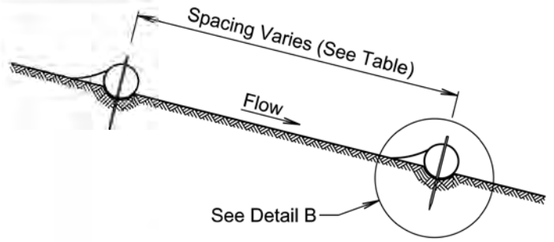


GENERAL NOTE:

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end will be provided on top of the extra length of silt fence fabric to prevent underflow.

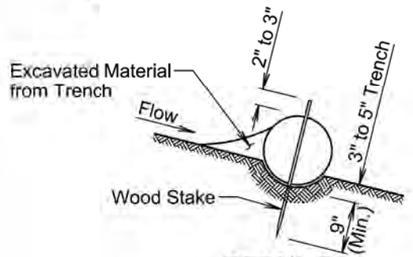
February 14, 2020

Published Date: 2027	SDDOT	HIGH FLOW SILT FENCE	PLATE NUMBER 734.05
			Sheet 2 of 2

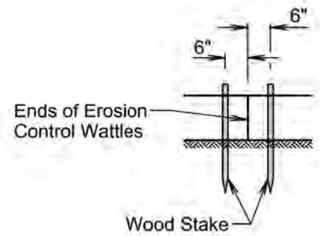


ELEVATION VIEW
(Cut or Fill Slope Installation)

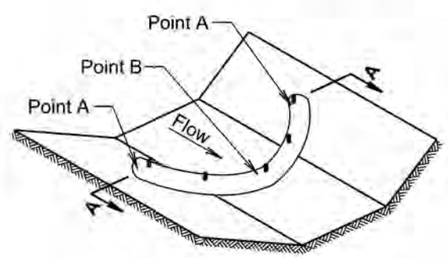
CUT OR FILL SLOPE INSTALLATION	
Slope	Spacing (Ft.)
1:1	10
2:1	20
3:1	30
4:1	40



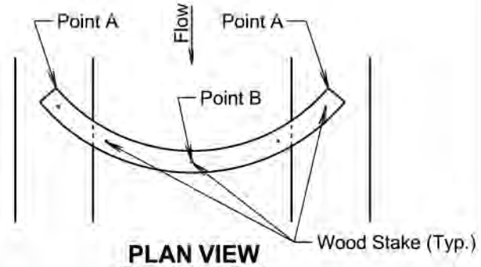
DETAIL B
(Typical of All Installations)



DETAIL C
(See General Notes)

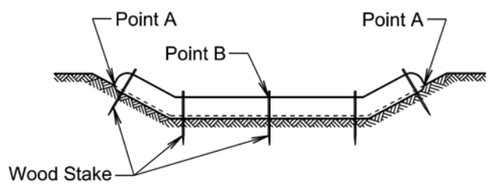


ISOMETRIC VIEW
(Ditch Installation)



PLAN VIEW
(Ditch Installation)

DITCH INSTALLATION	
Grade	Spacing (Ft.)
2%	150
3%	100
4%	75
5%	50



SECTION A-A

February 14, 2020

Published Date: 2027	SDDOT	EROSION CONTROL WATTLE	PLATE NUMBER 734.06
			Sheet 1 of 2

FOR BIDDING PURPOSES ONLY

GENERAL NOTES:

At cut or fill slope installations, wattles will be installed along the contour and perpendicular to the water flow.

At ditch installations, point A must be higher than point B to ensure that water flows over the wattle and not around the ends.

The Contractor will dig a 3" to 5" trench, install the wattle tightly in the trench so that daylight can not be seen under the wattle, and then compact the soil excavated from the trench against the wattle on the uphill side. See Detail B.

The stakes will be 1"x2" or 2"x2" wood stakes, however, other types of stakes such as rebar may be used only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the spacing of the stakes along the wattles will be 3' to 4'.

Where installing running lengths of wattles, the Contractor will butt the second wattle tightly against the first and will not overlap the ends. See Detail C.

The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm water permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary as determined by the Engineer.

Sediment removal, disposal, or necessary shaping will be as directed by the Engineer. All costs for removing accumulated sediment, disposal of sediment, and necessary shaping will be incidental to the contract unit price per cubic yard for "Remove Sediment".

All costs for furnishing and installing the erosion control wattles including labor, equipment, and materials will be incidental to the contract unit price per foot for the corresponding erosion control wattle contract item.

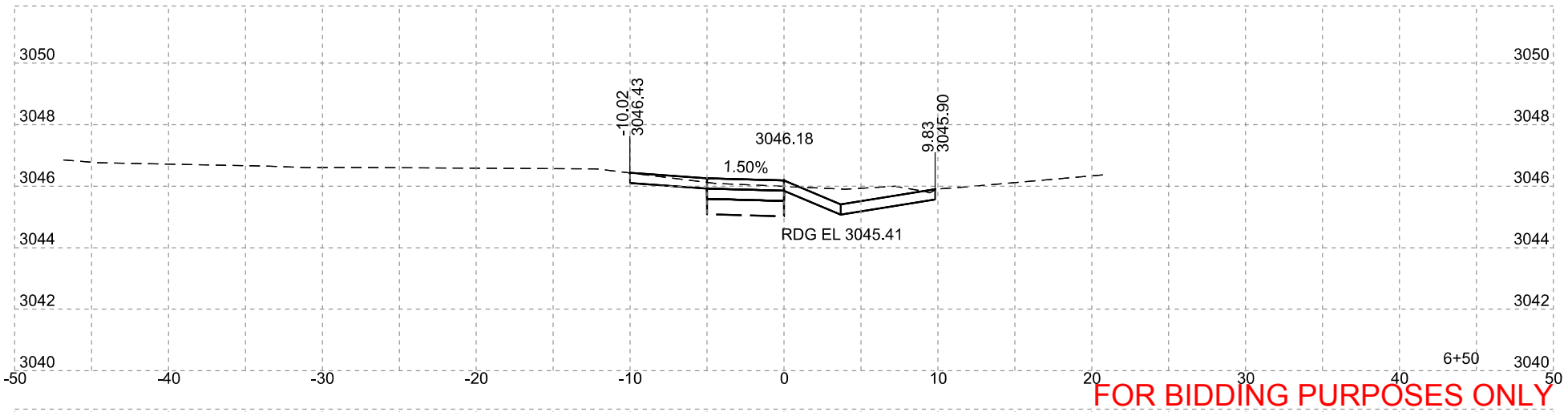
All costs for removing the erosion control wattle from the project including labor, equipment, and materials will be incidental to the contract unit price per foot for "Remove Erosion Control Wattle".

February 14, 2020

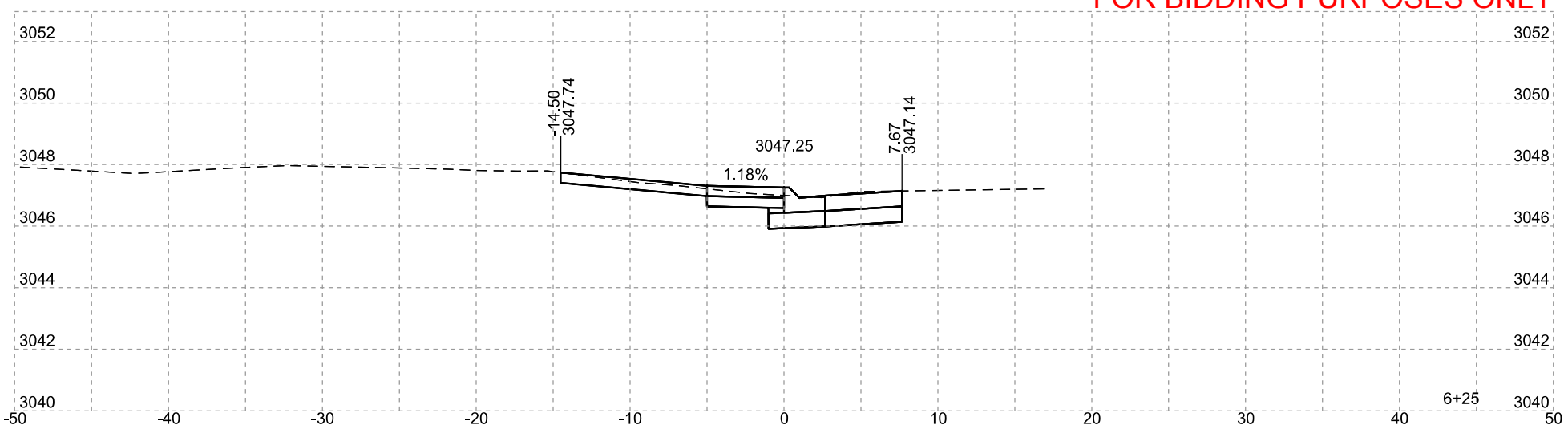
Published Date: 2027	SDDOT	EROSION CONTROL WATTLE	PLATE NUMBER 734.06 Sheet 2 of 2

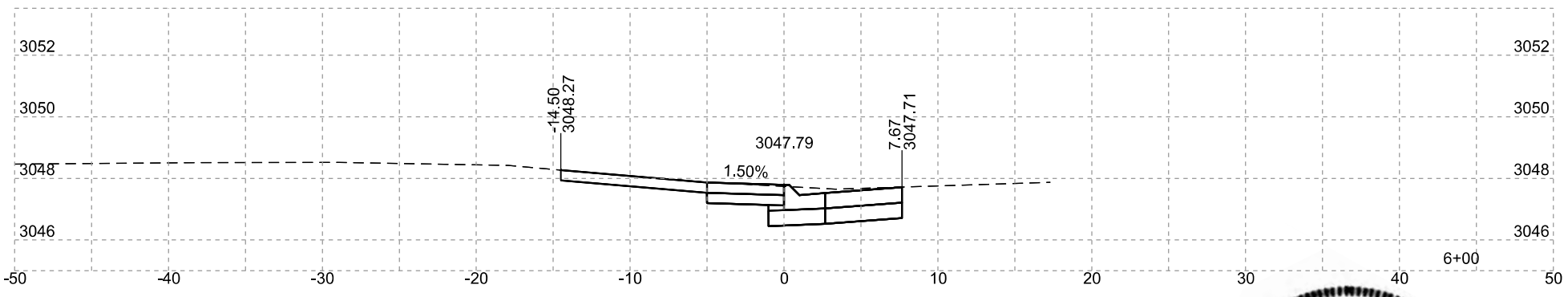
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	56	68

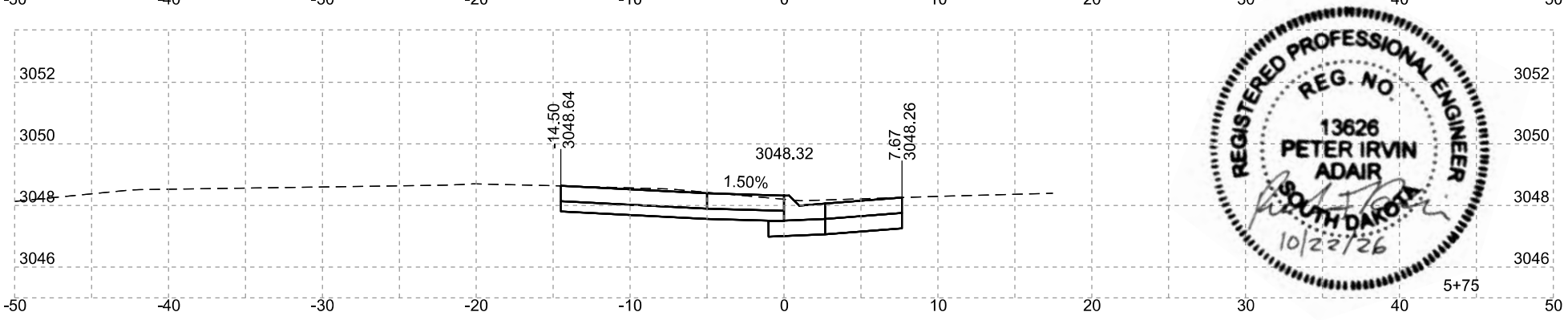
Plotting Date: 10/1/2026

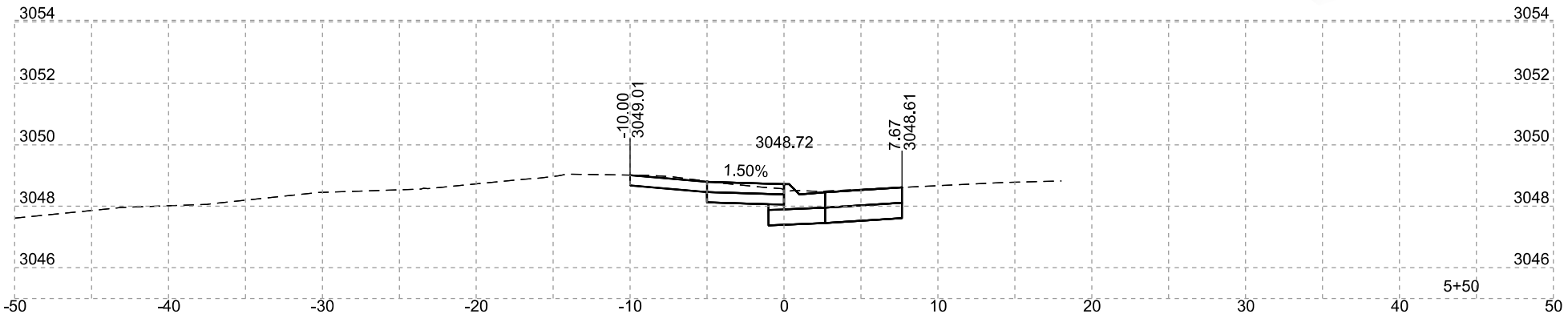


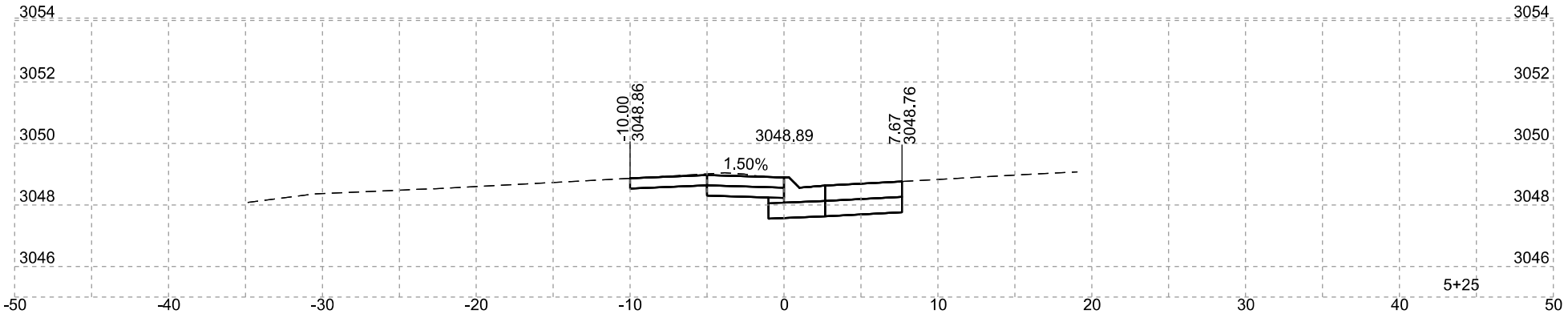
FOR BIDDING PURPOSES ONLY

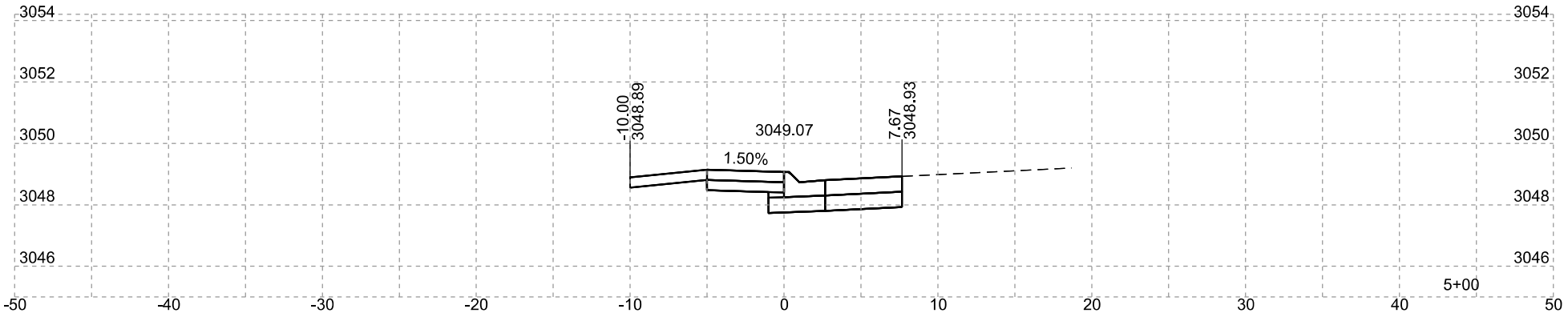










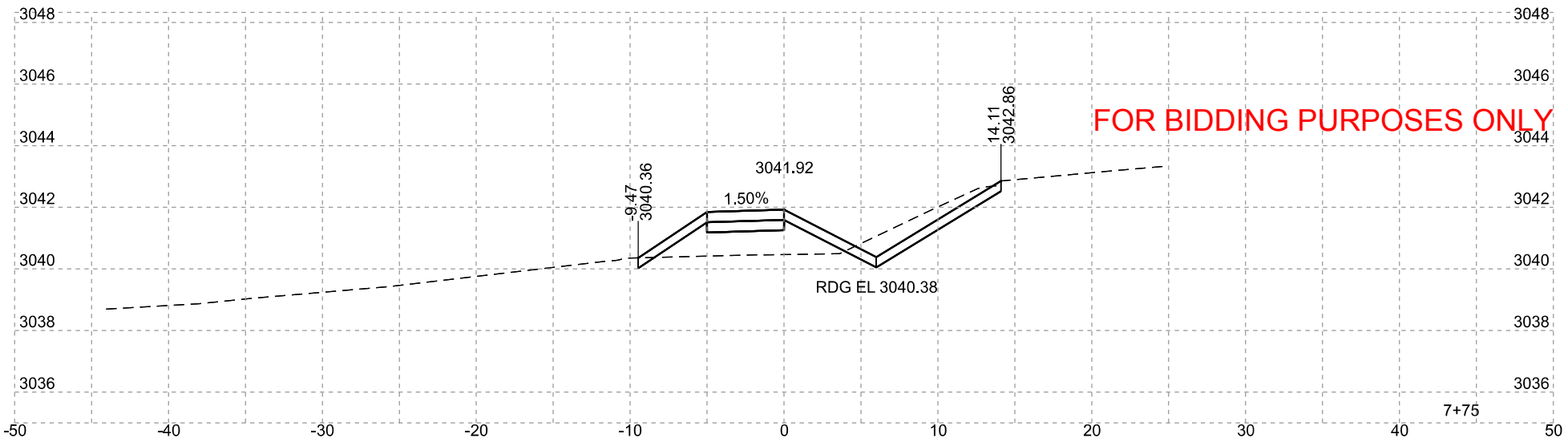


REGISTERED PROFESSIONAL ENGINEER
REG. NO
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

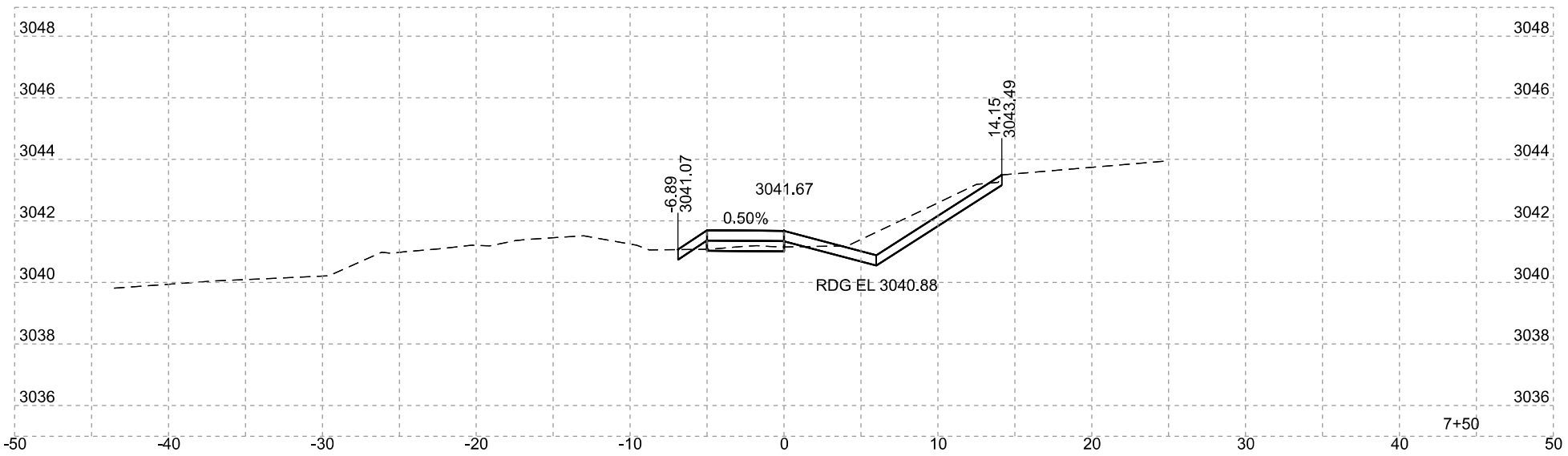
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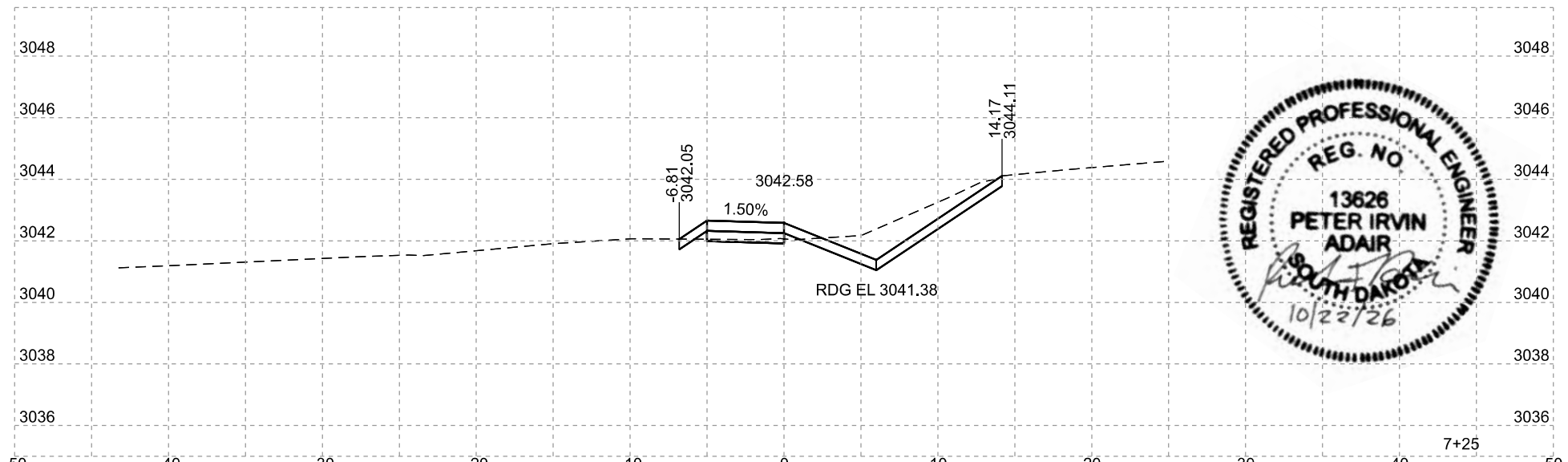
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	57	68

Plotting Date: 10/1/2026

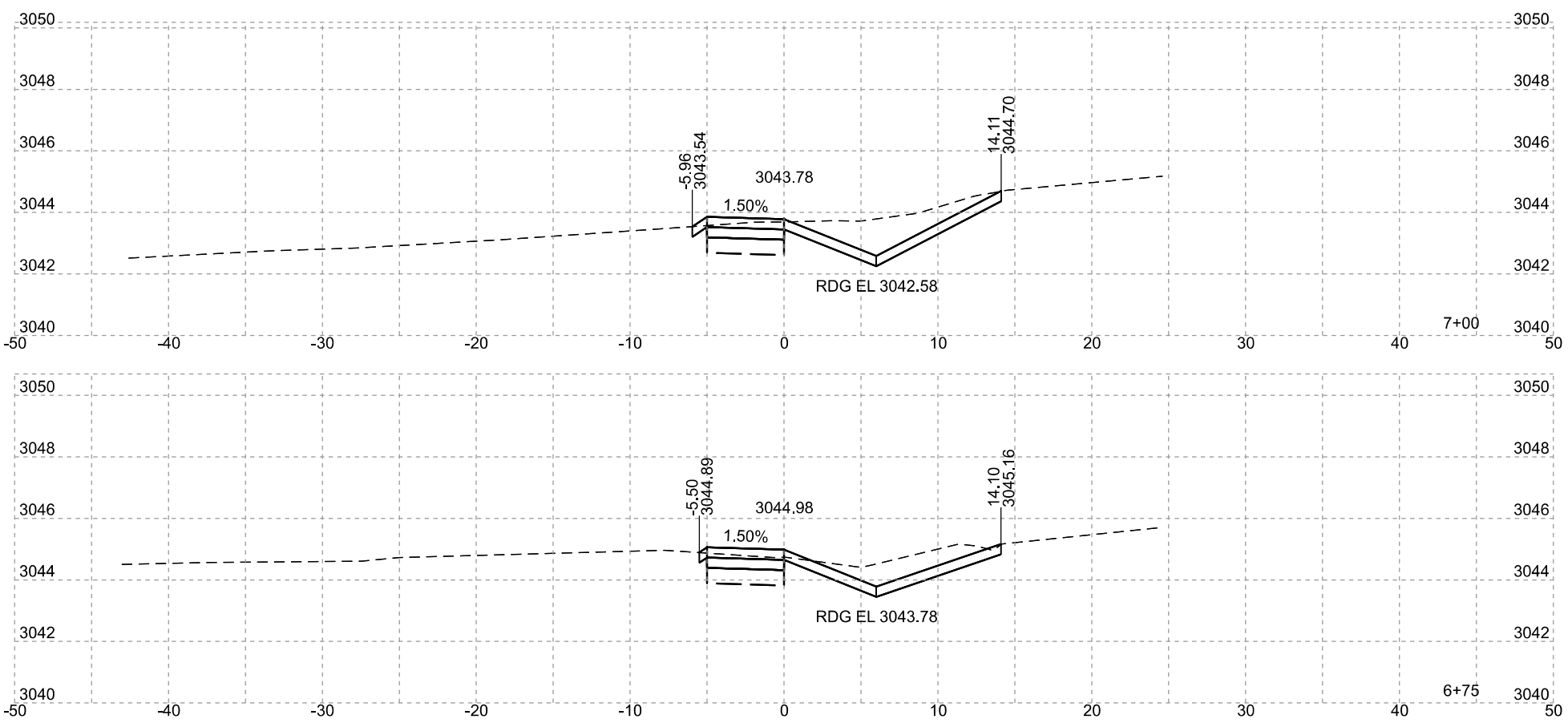


FOR BIDDING PURPOSES ONLY





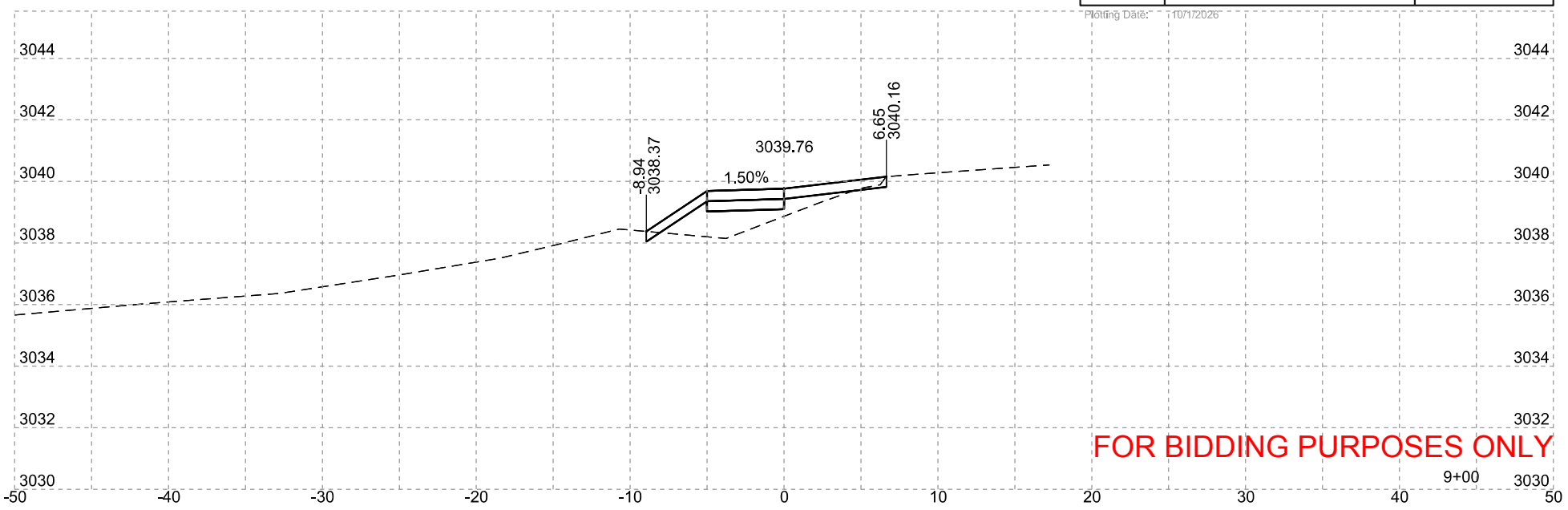
REGISTERED PROFESSIONAL ENGINEER
REG. NO
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26

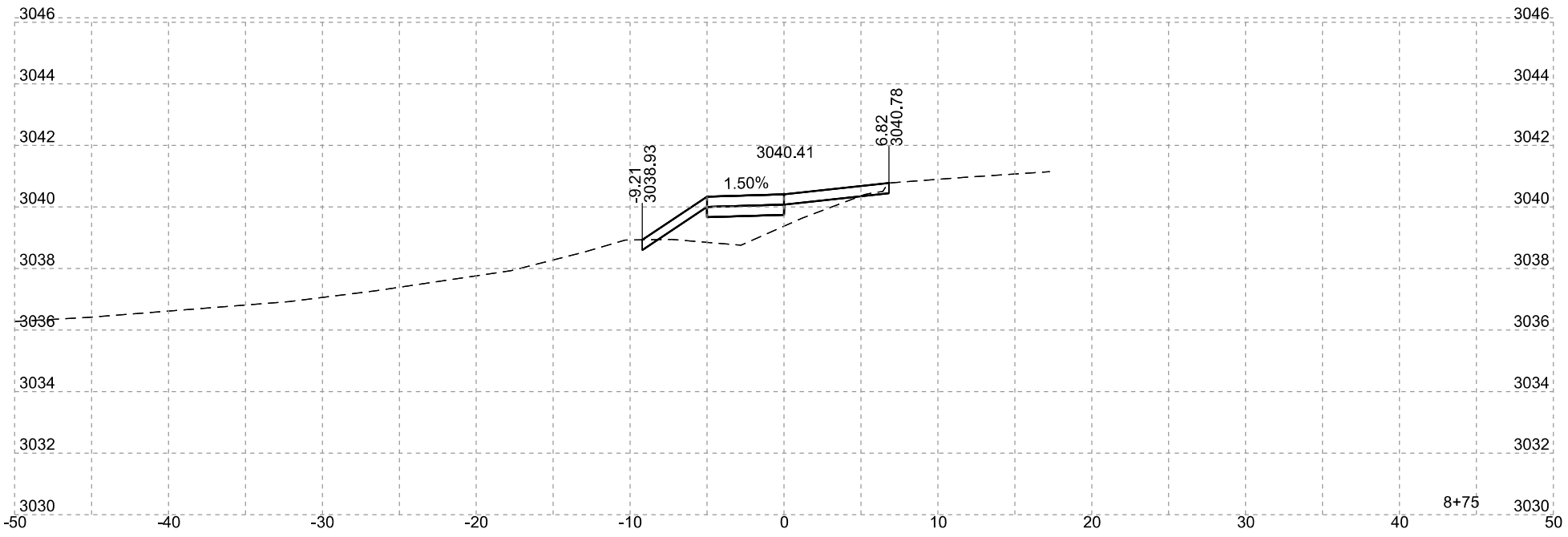


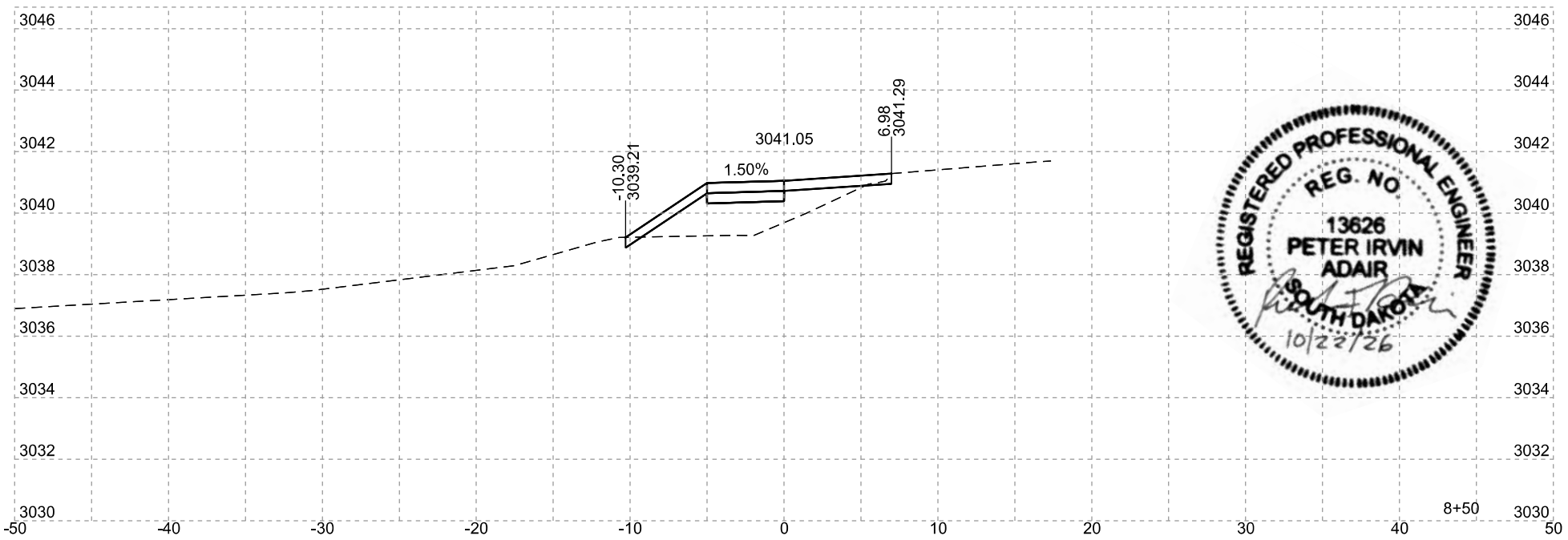
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PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	58	68

Plotting Date: 10/7/2026

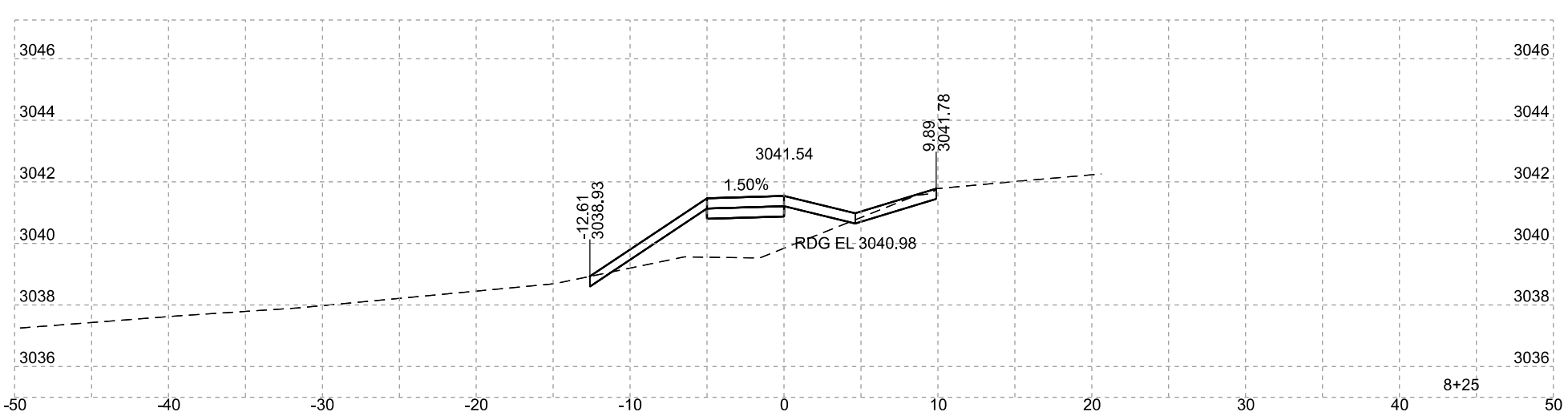


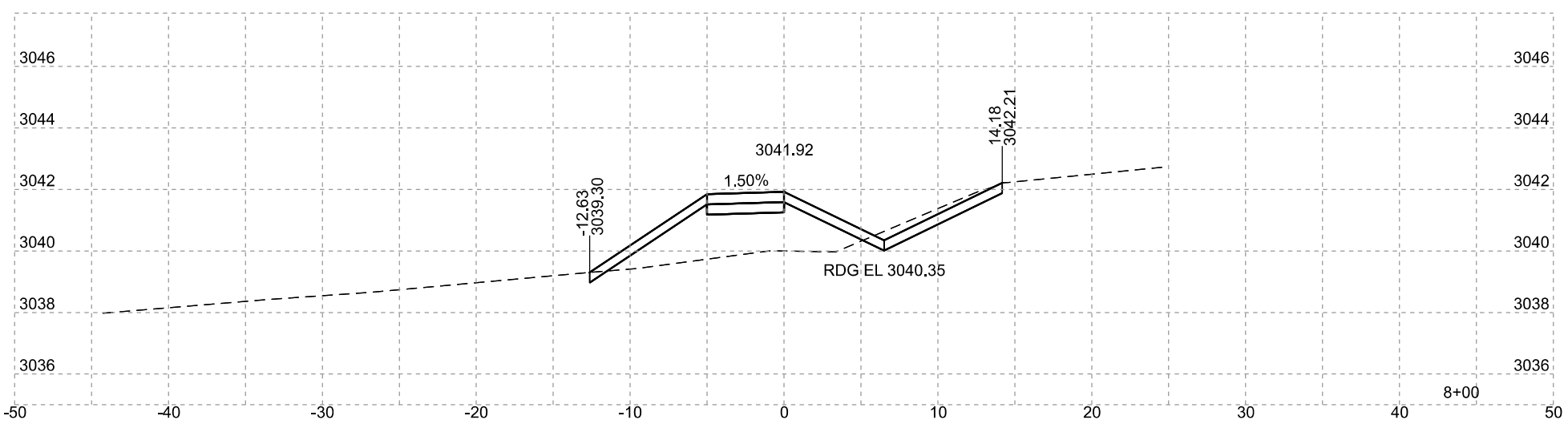




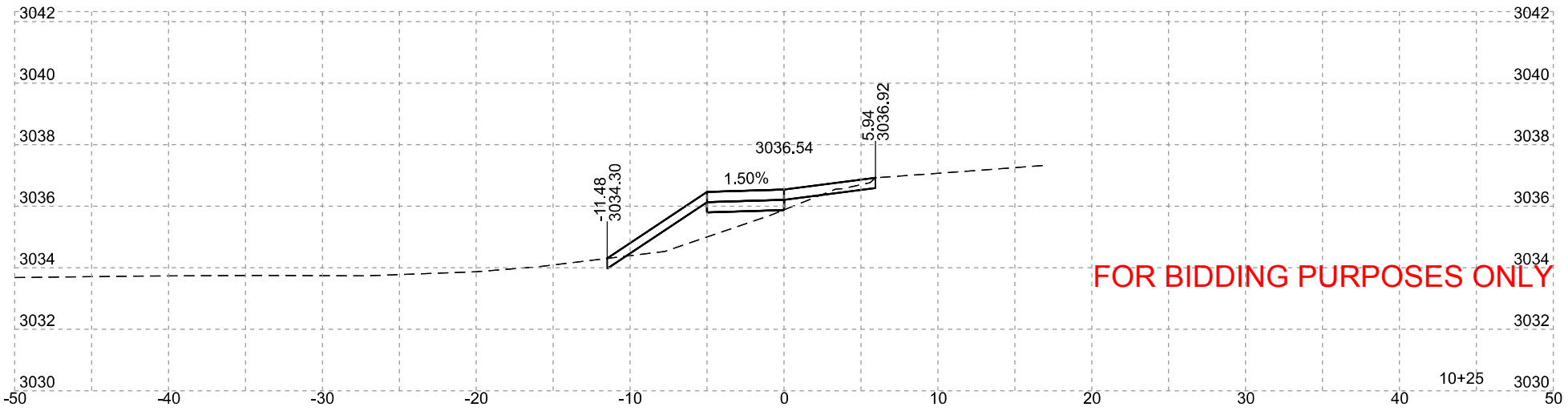
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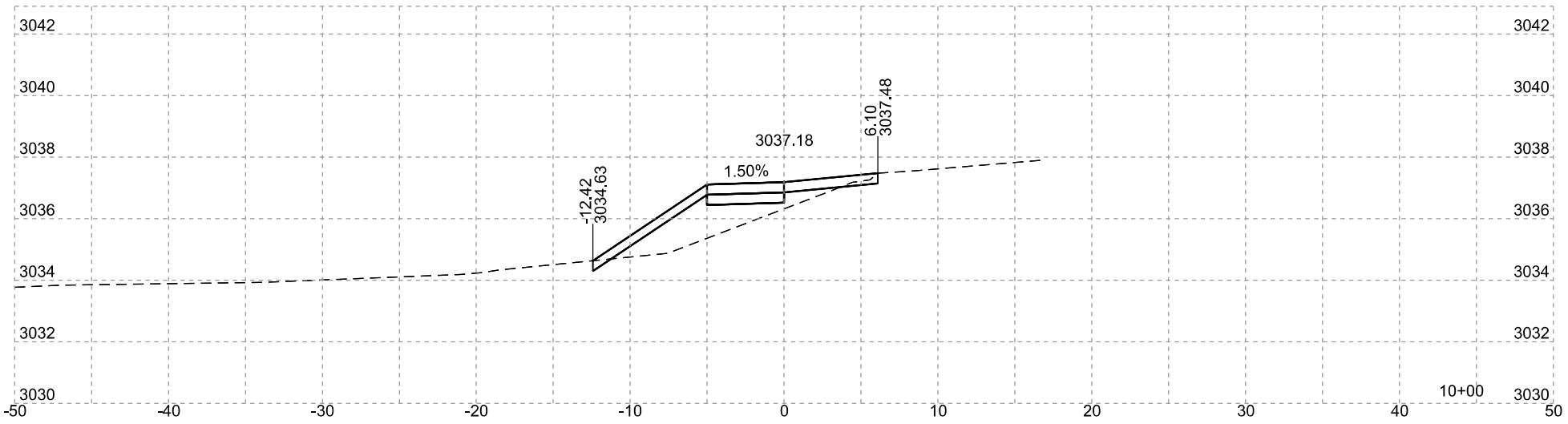


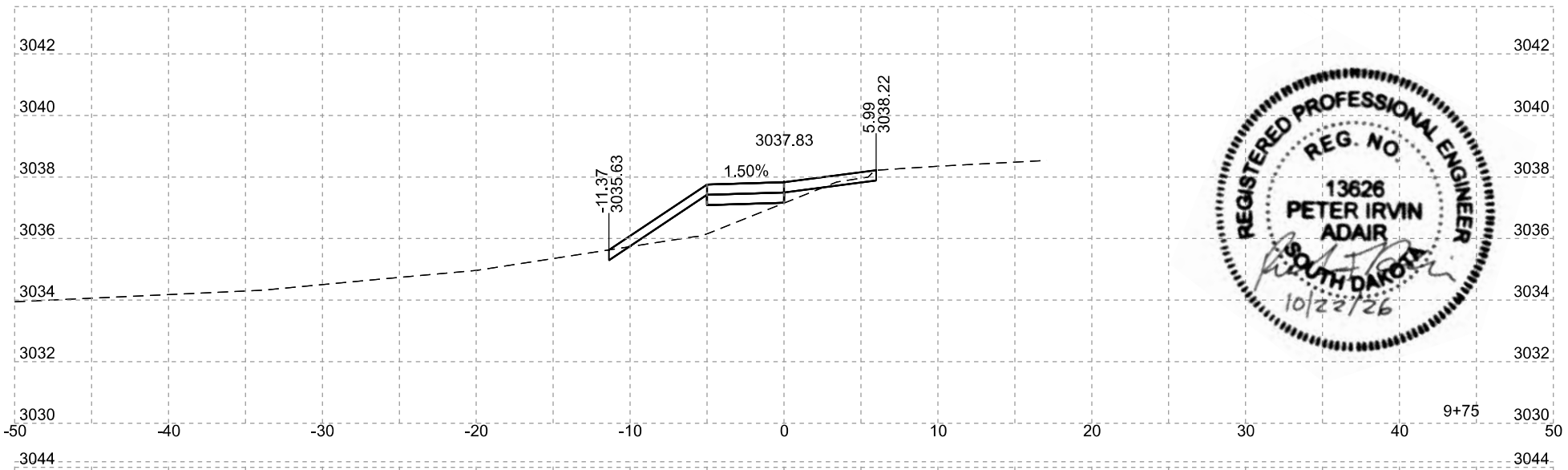


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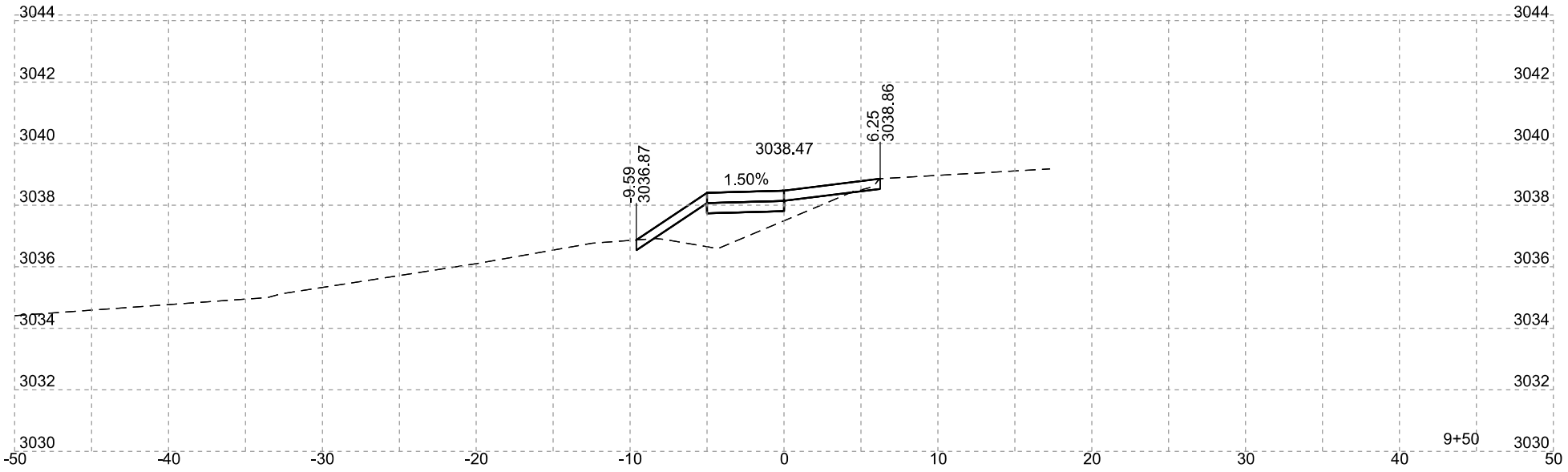


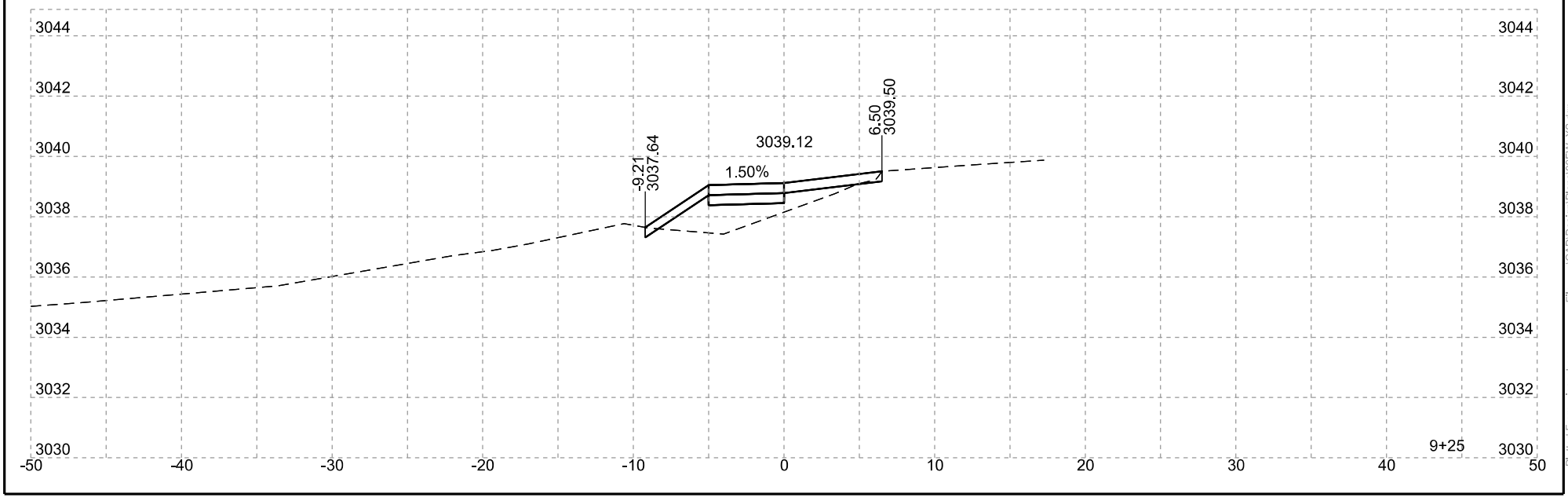
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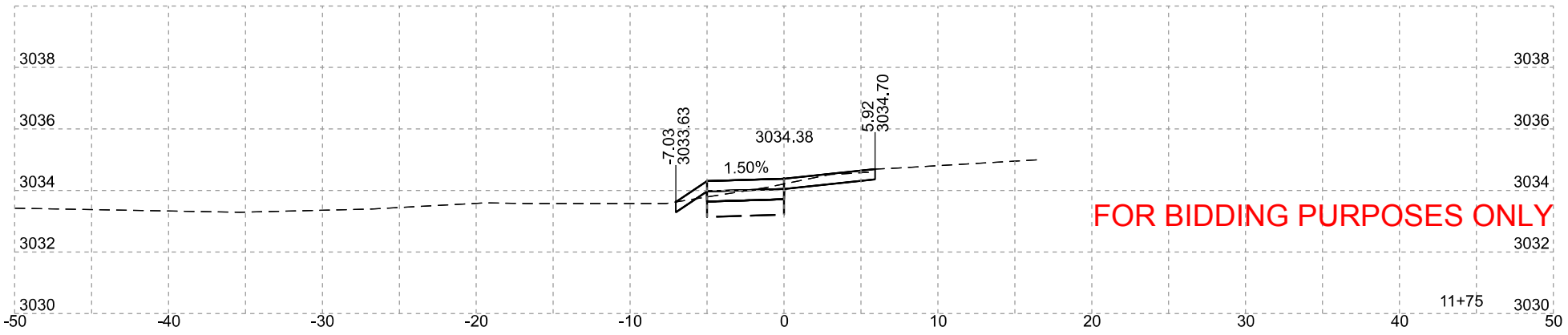




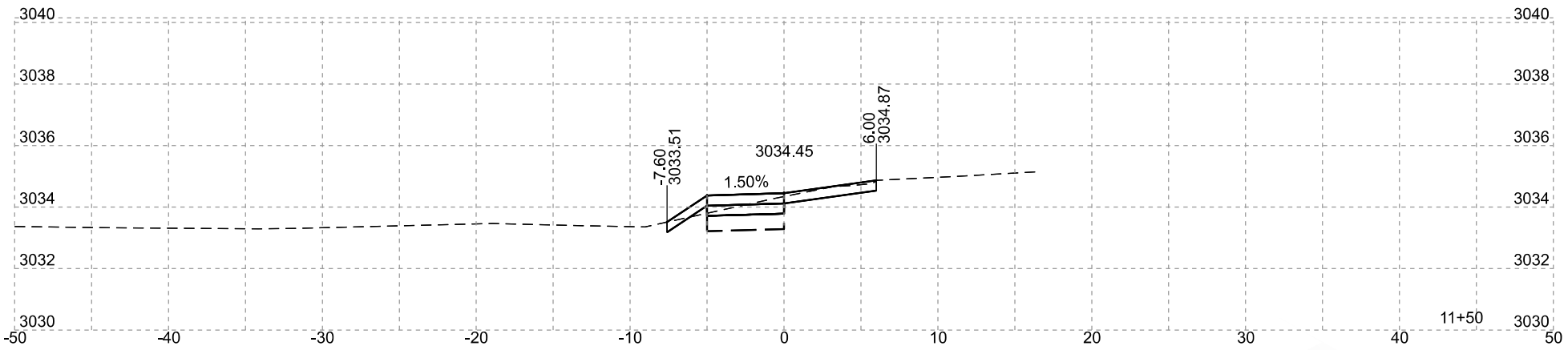
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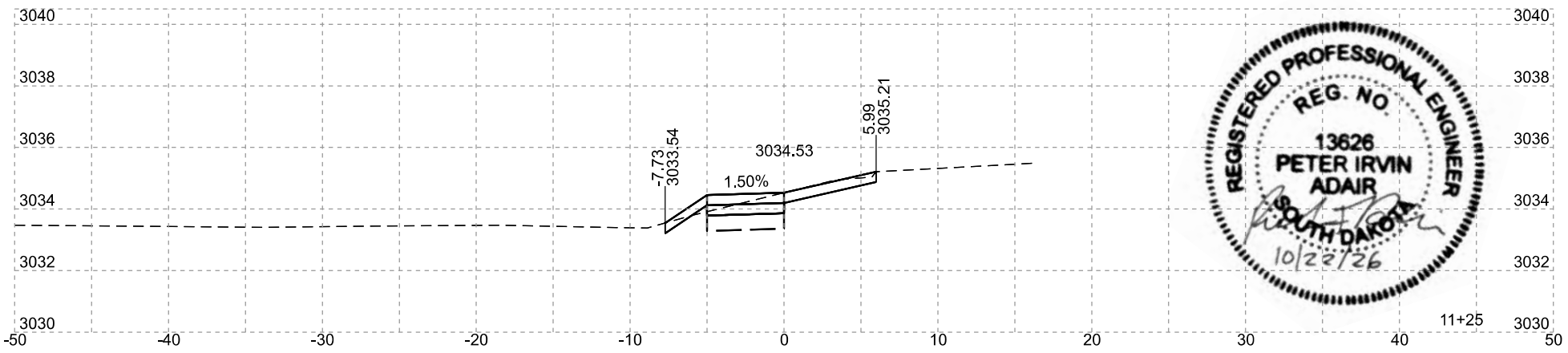
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	60	68

Plotting Date: 10/1/2026

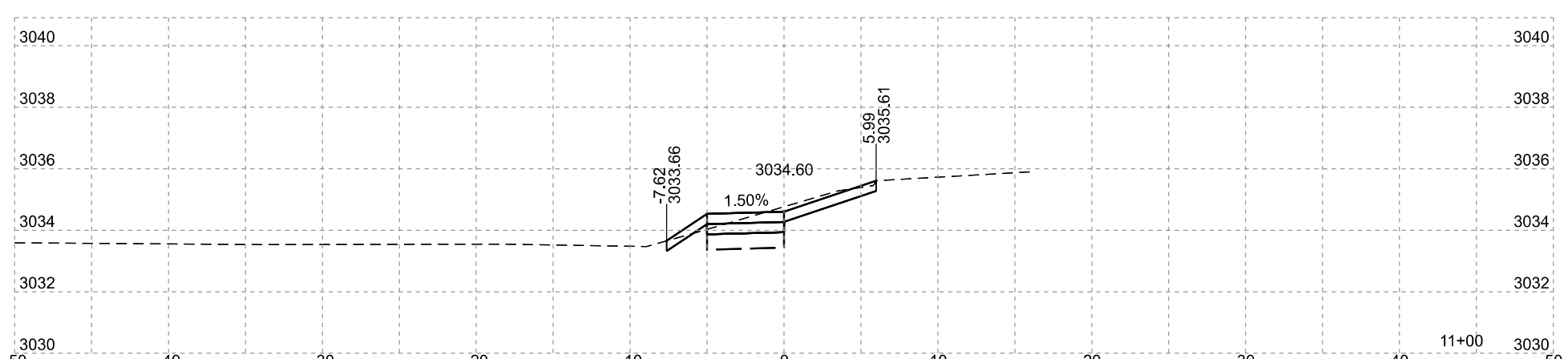


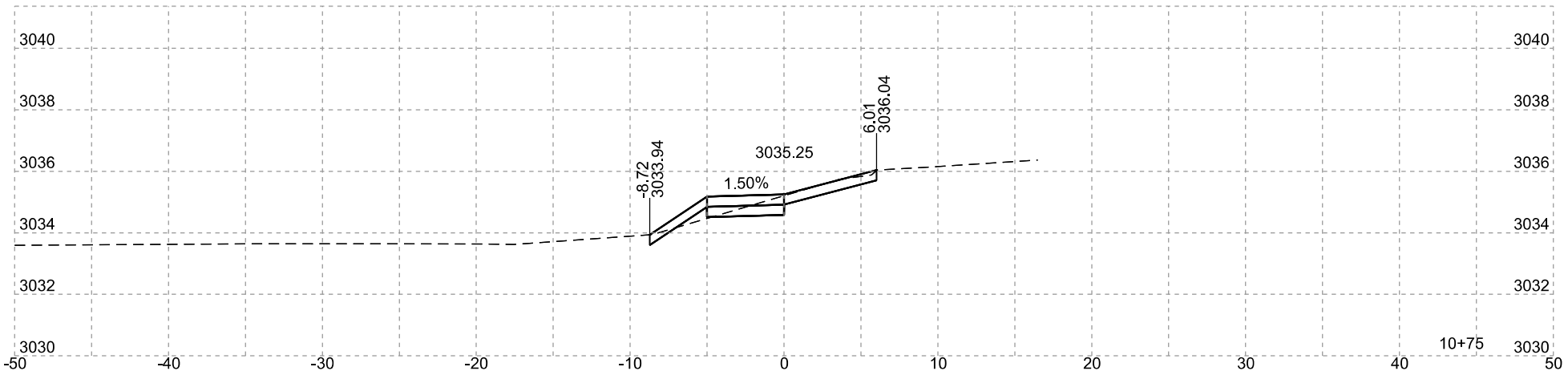
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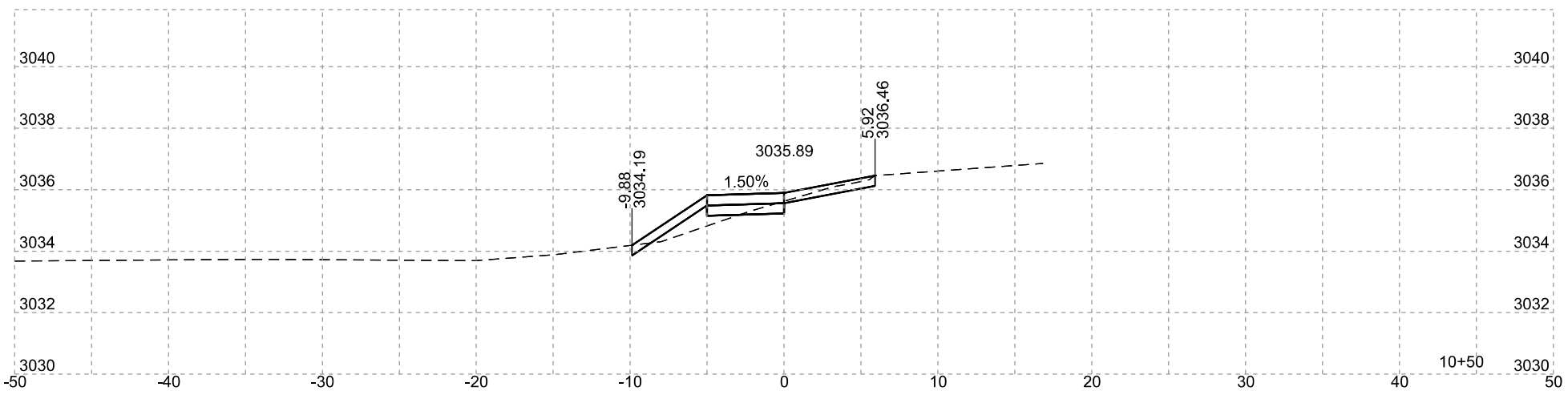




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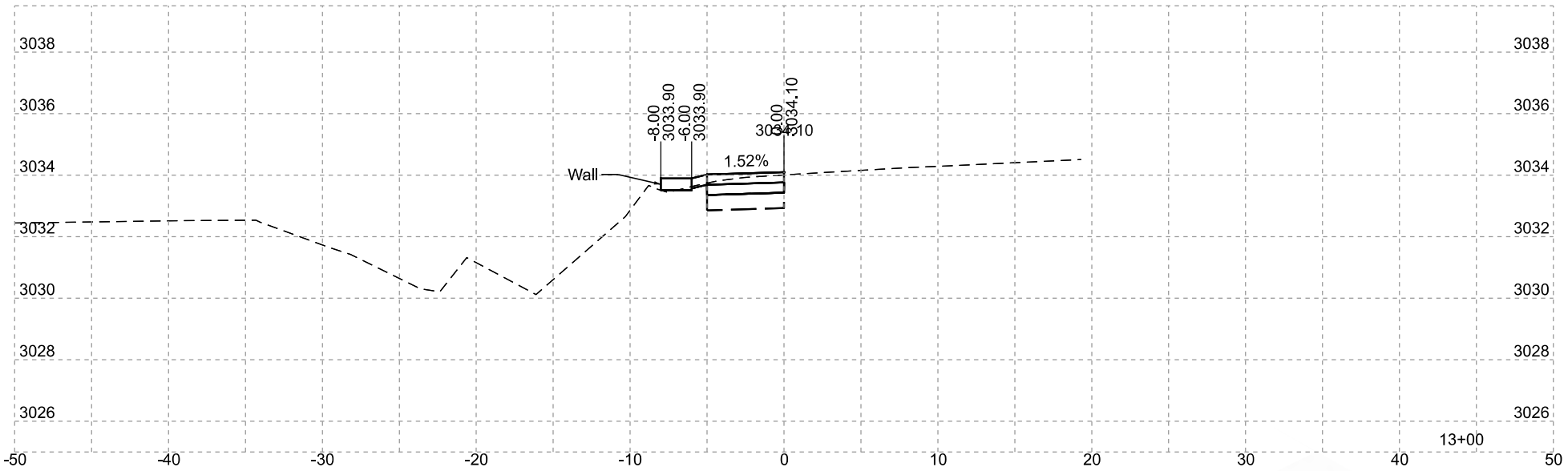


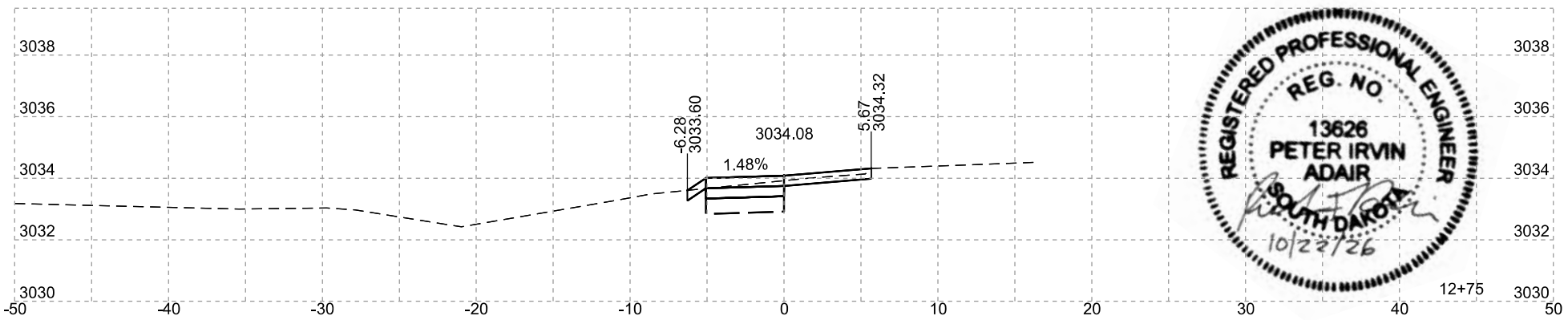


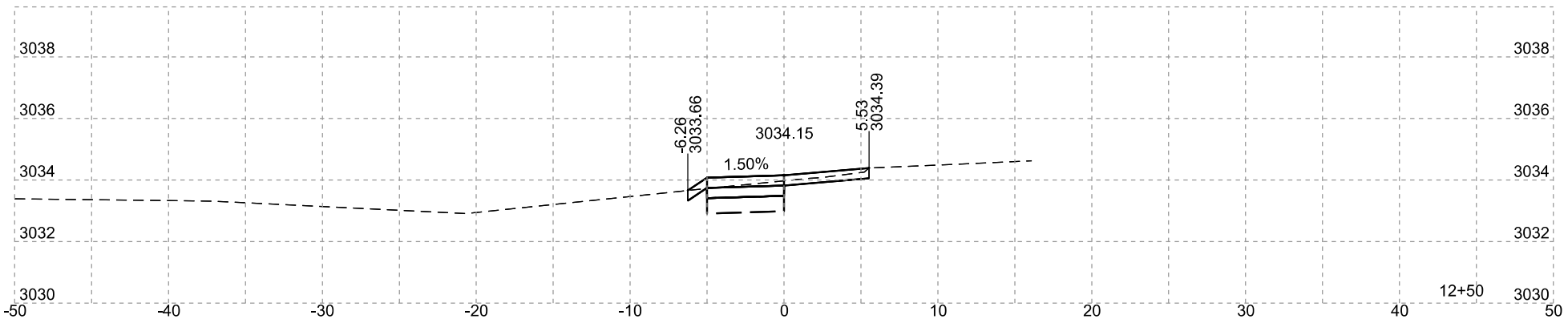


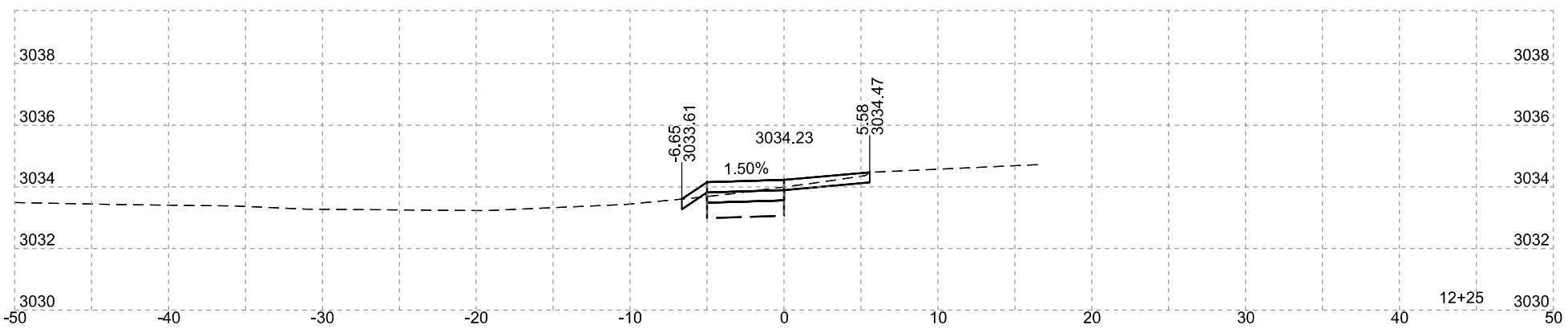
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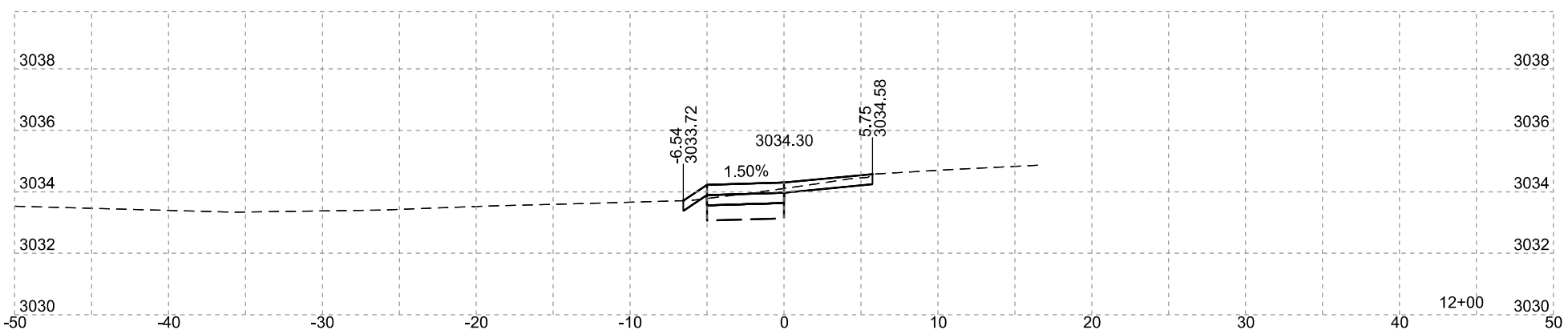
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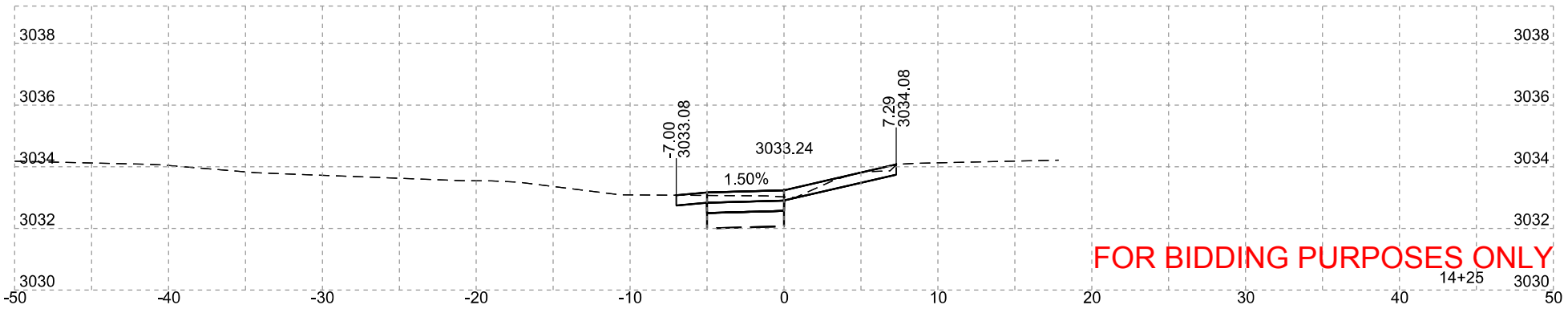




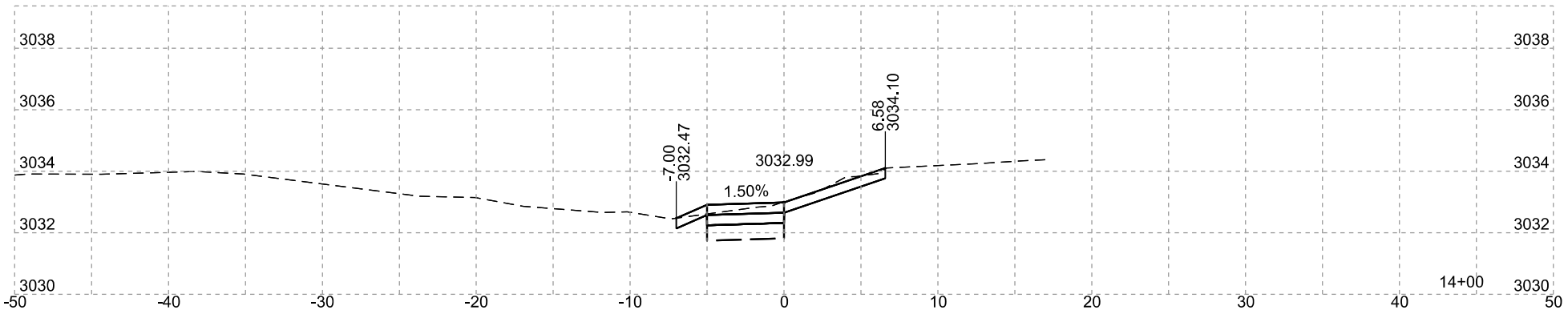
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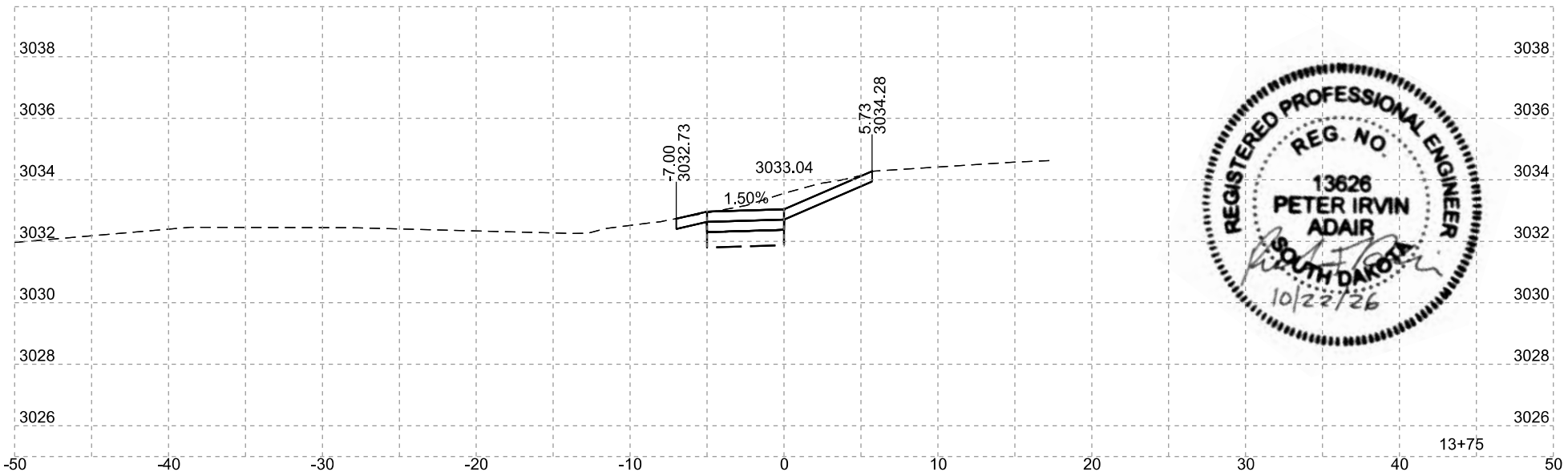
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	62	68

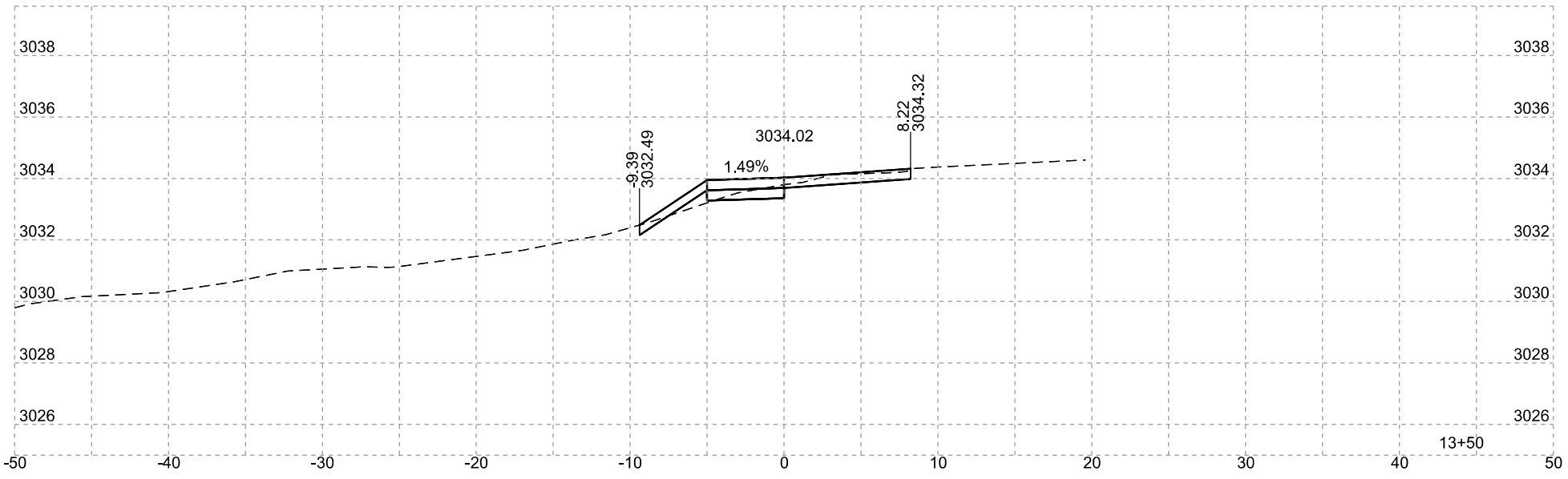
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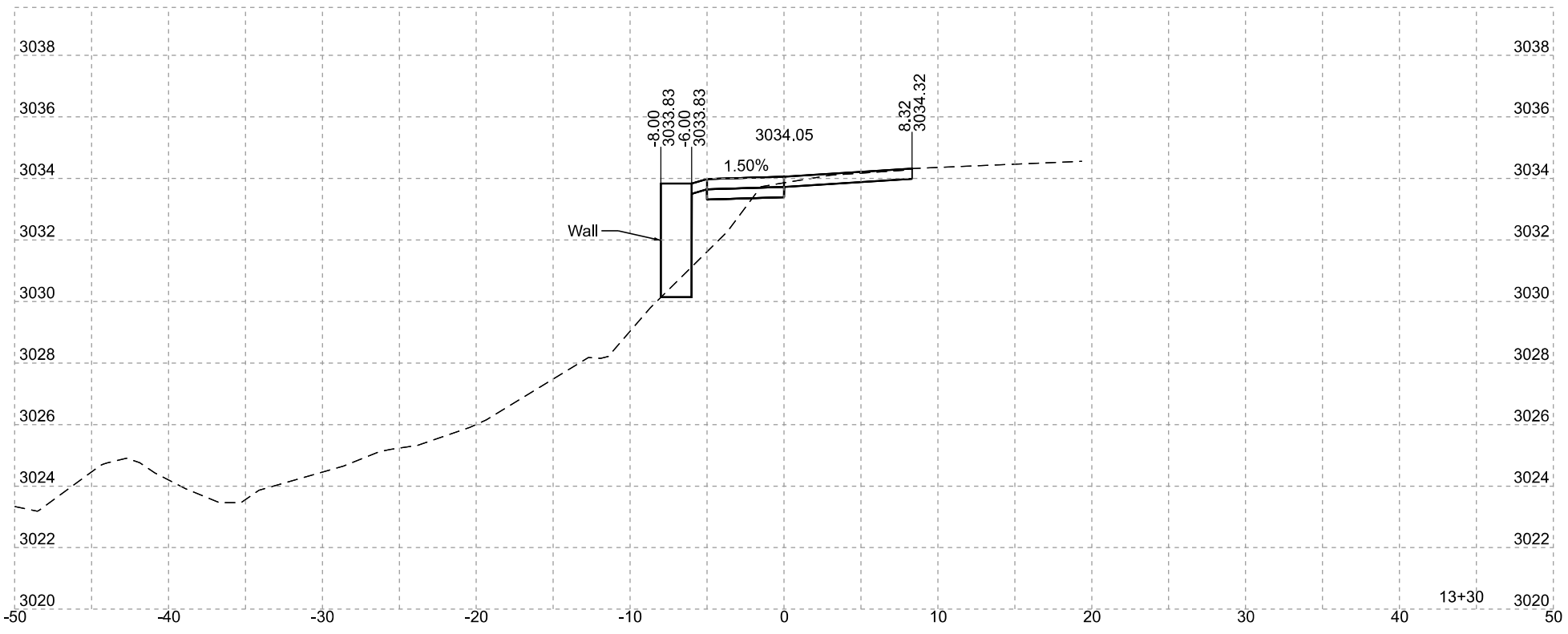


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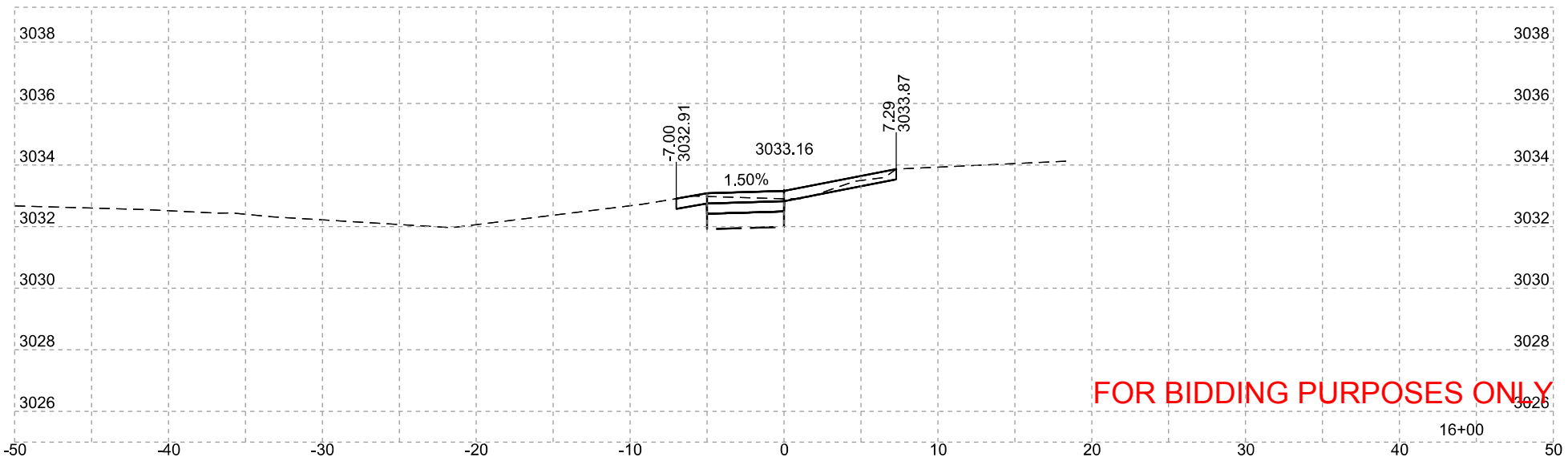


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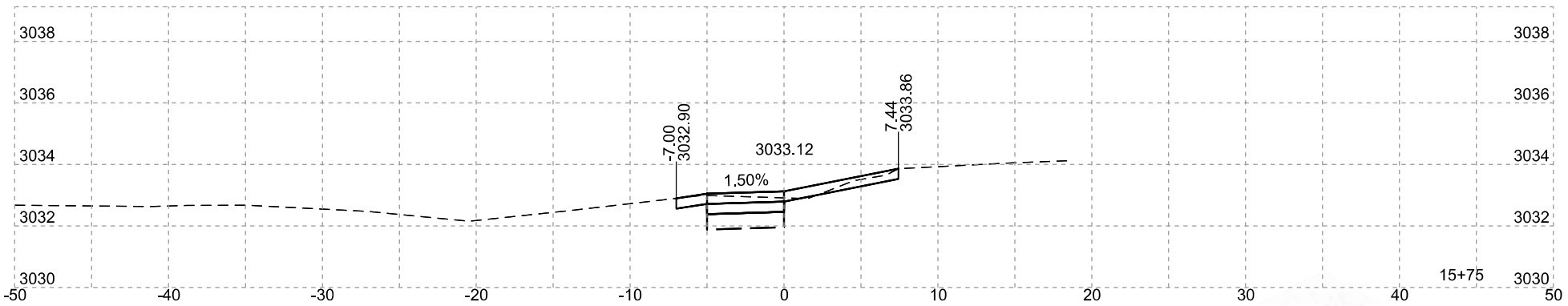
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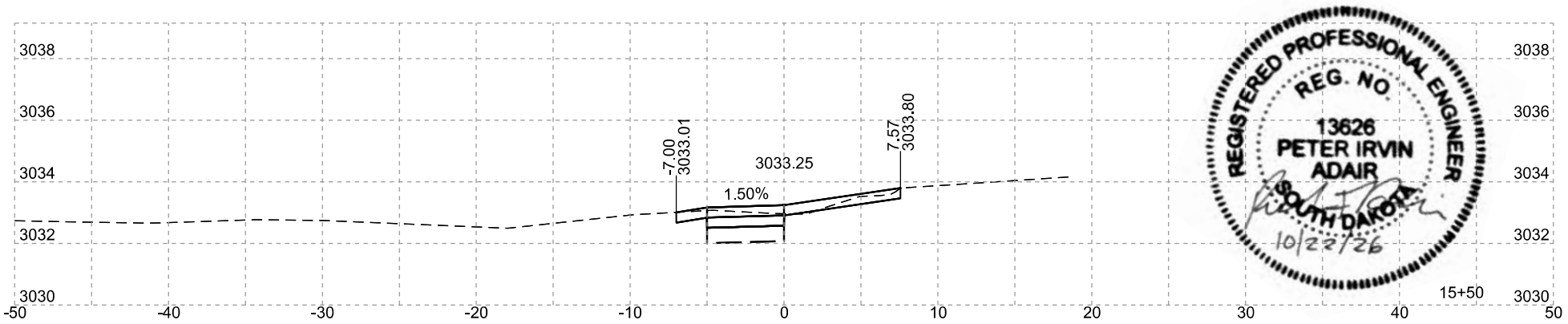
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	63	68

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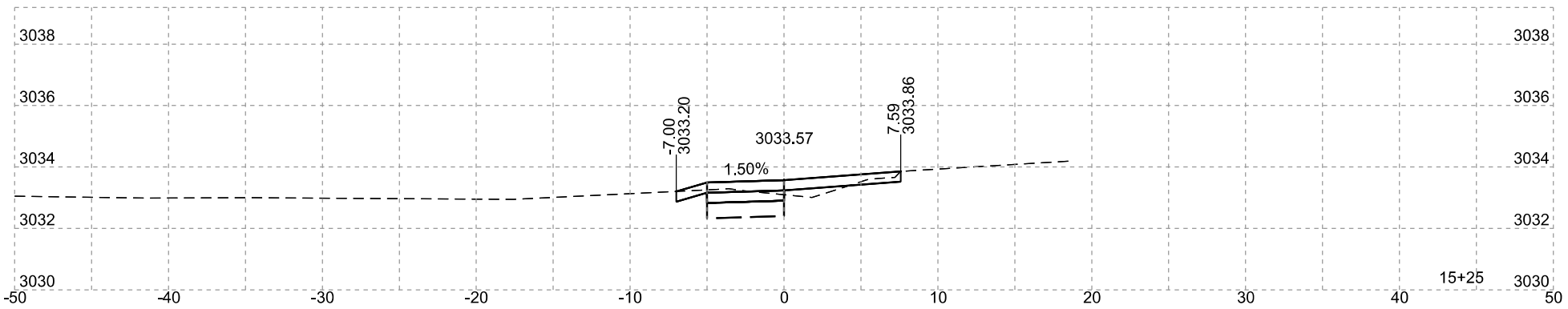


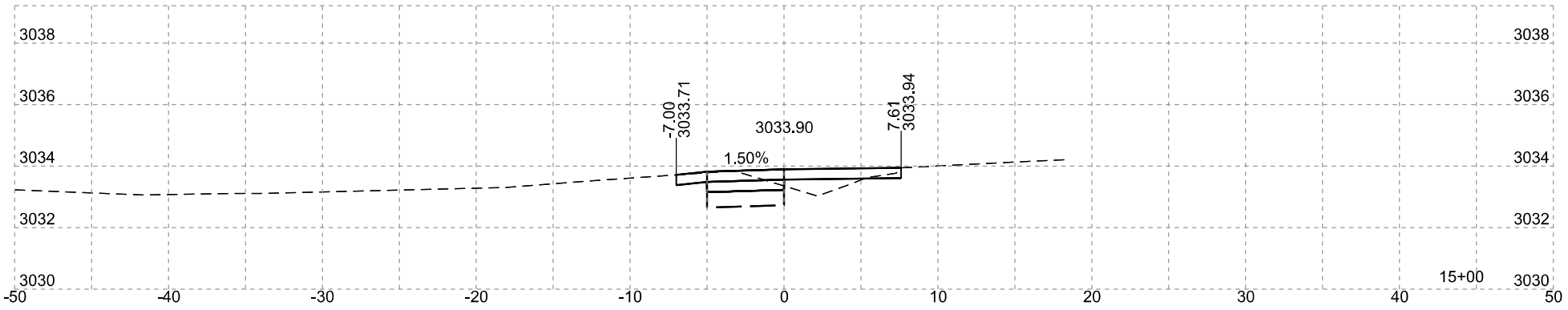
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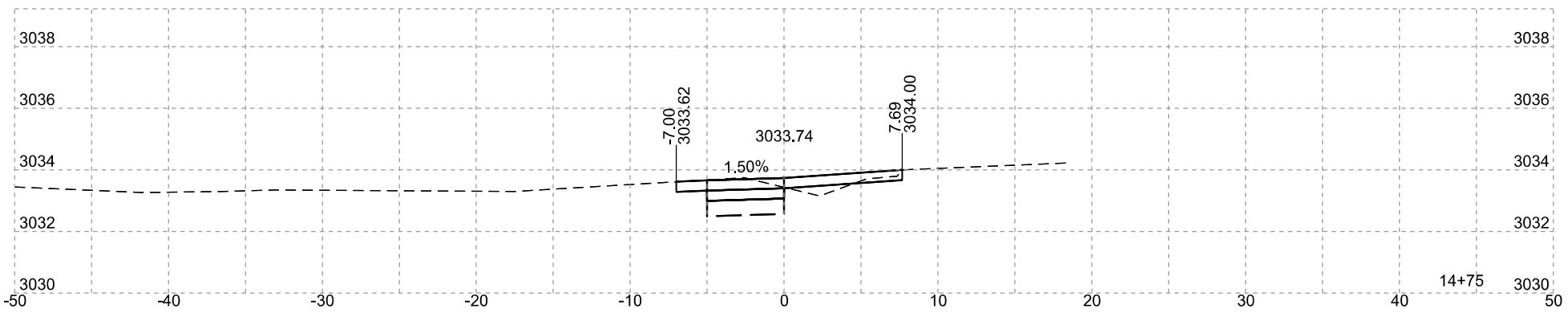


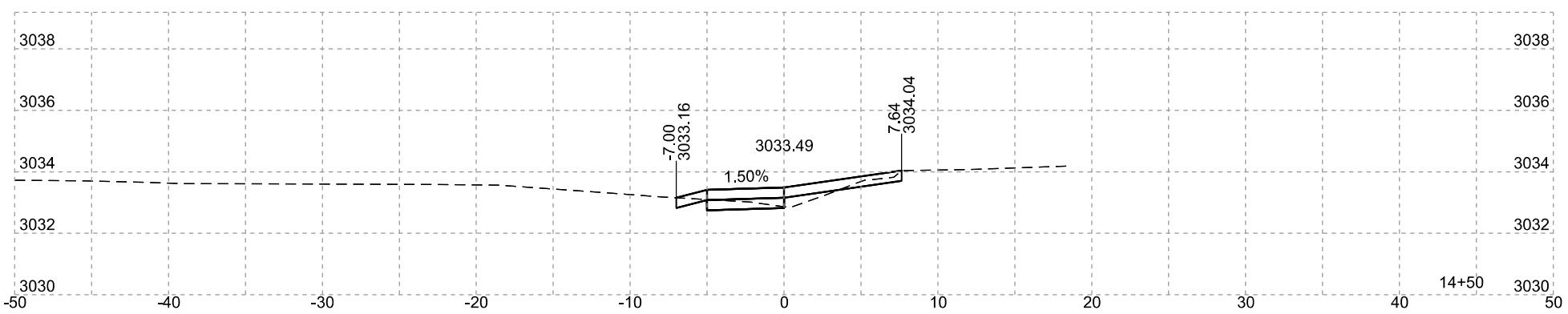


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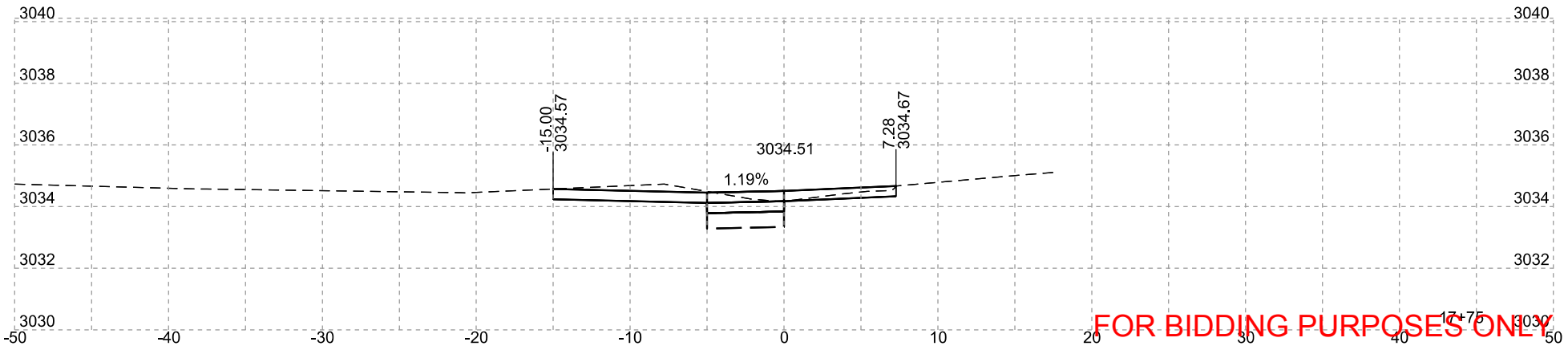




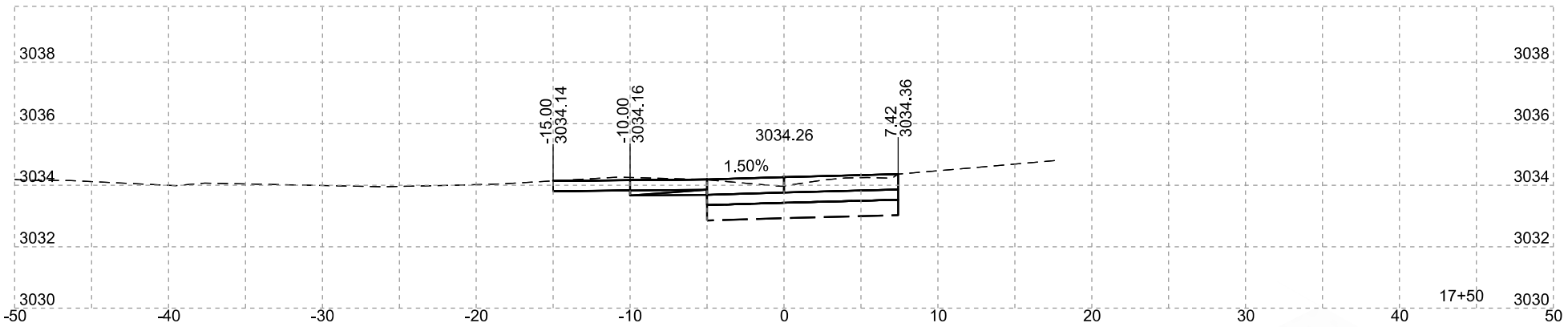


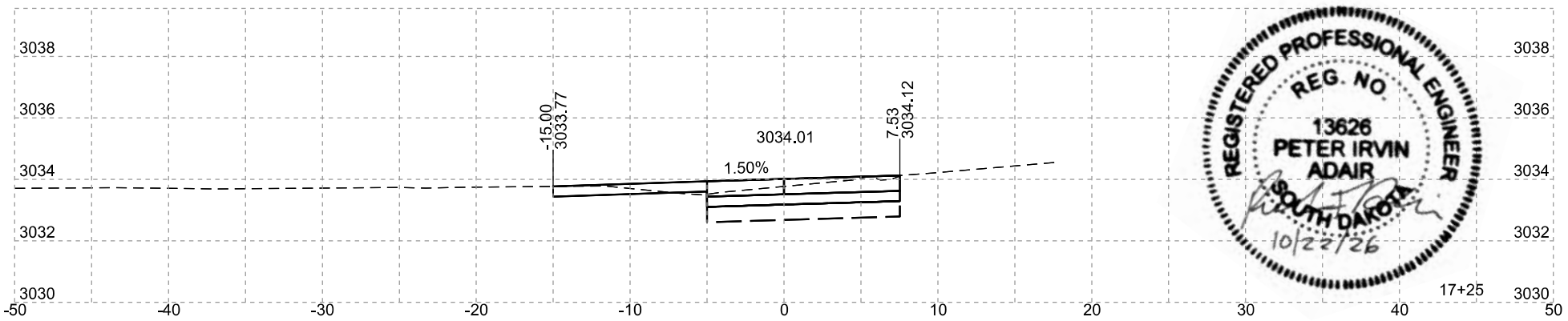


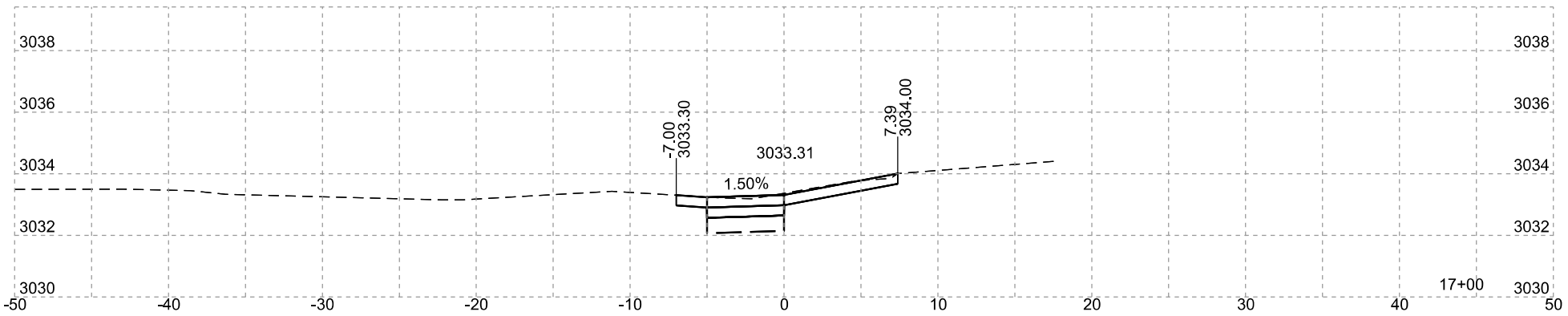
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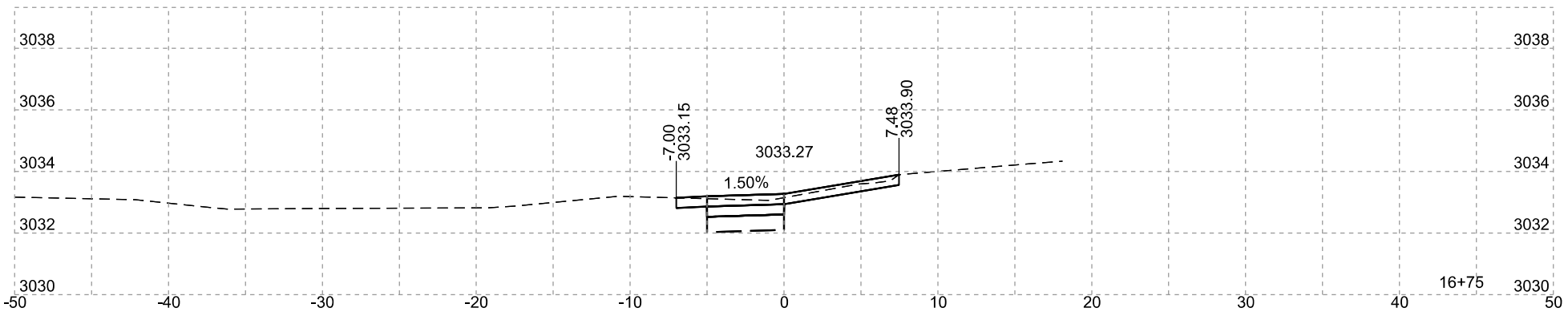


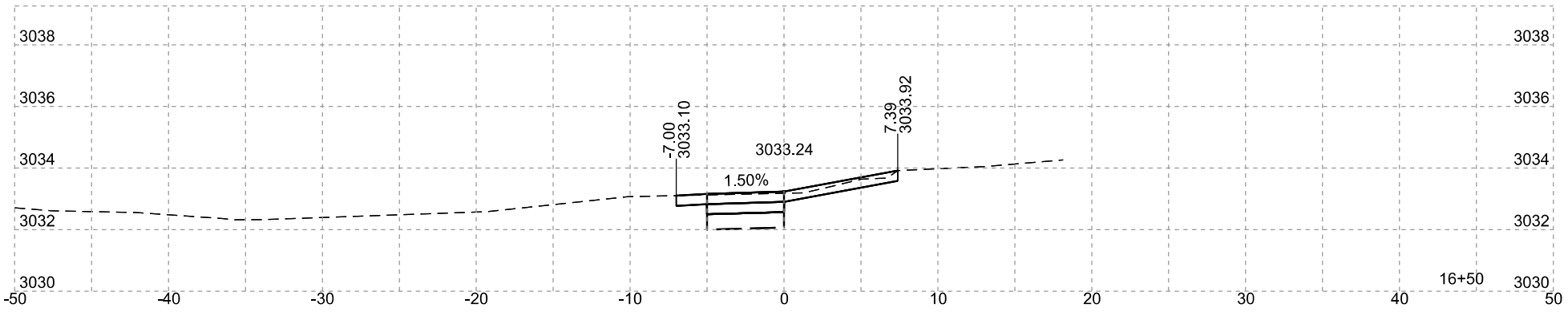
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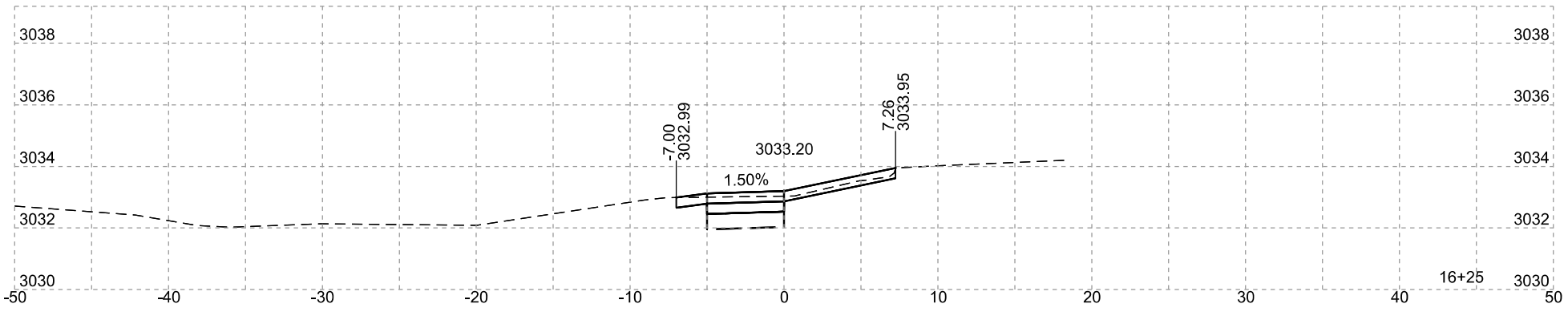






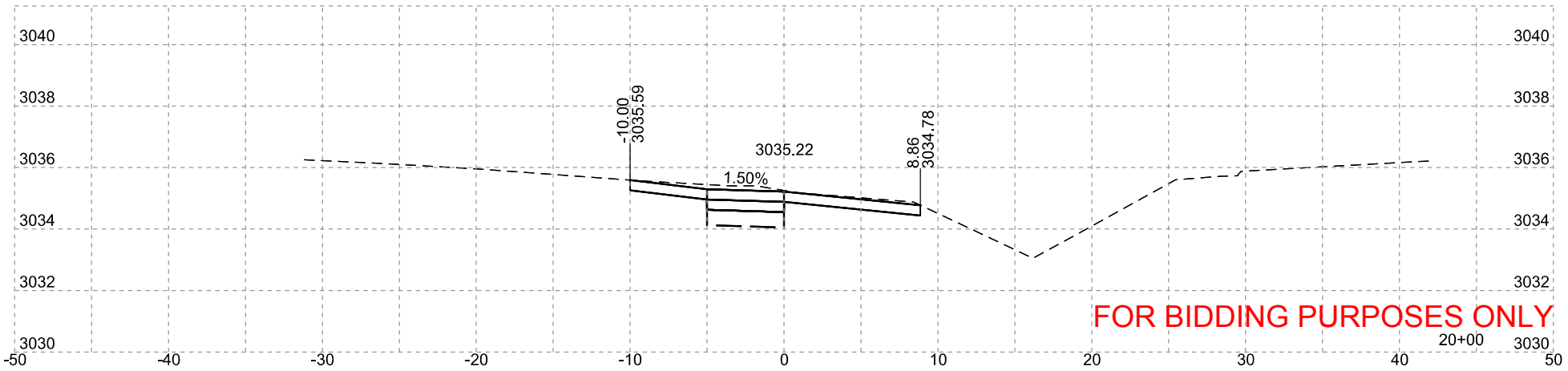




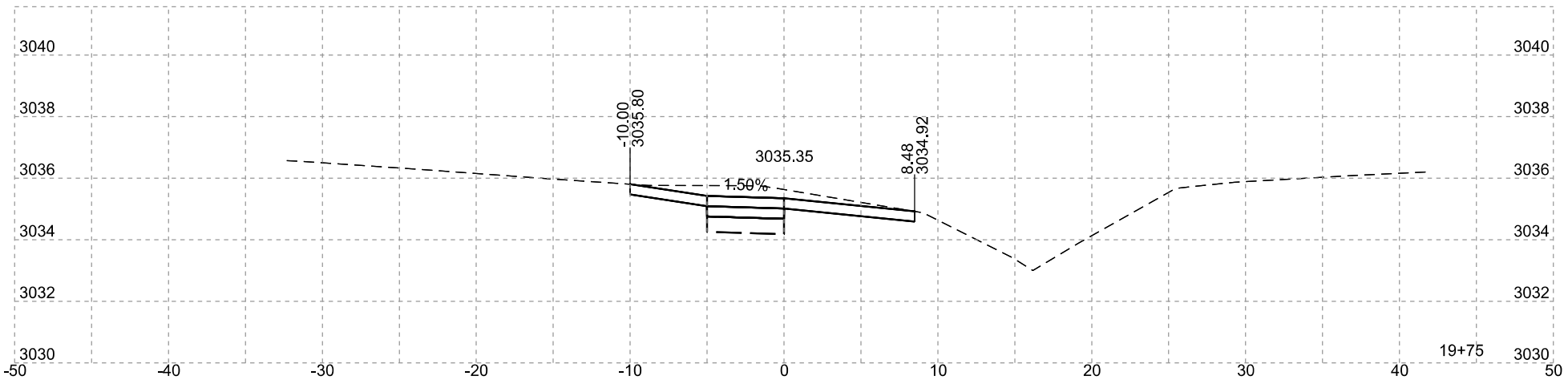


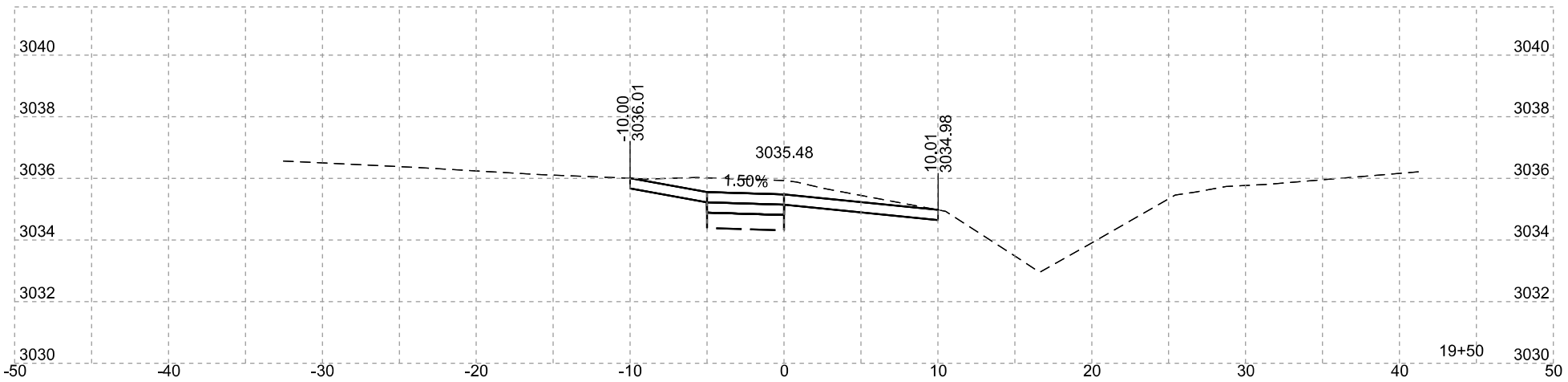
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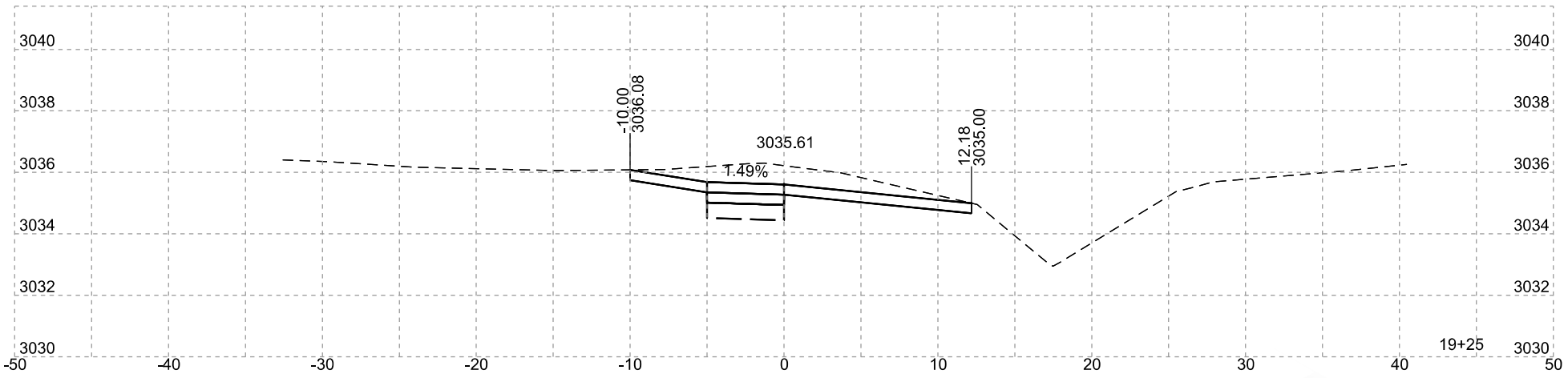
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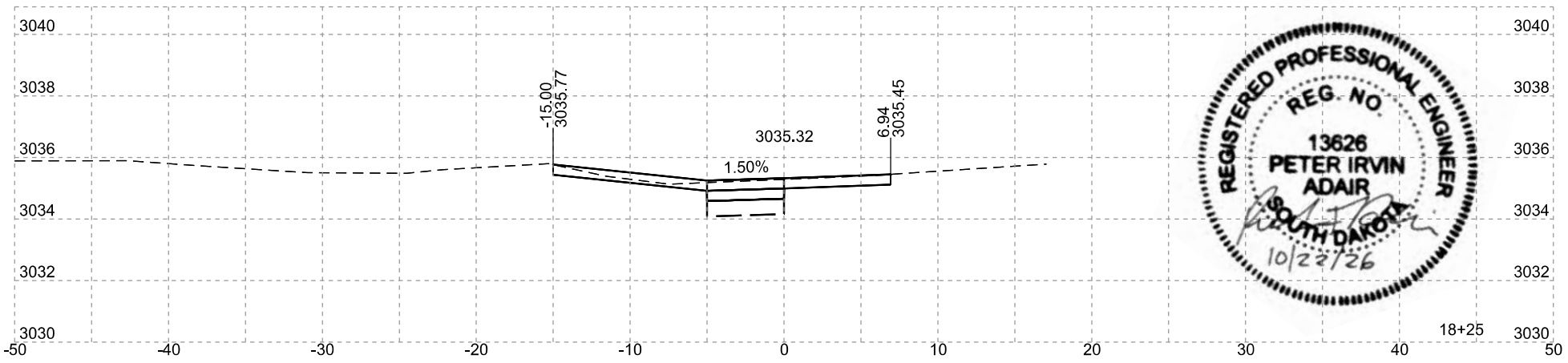


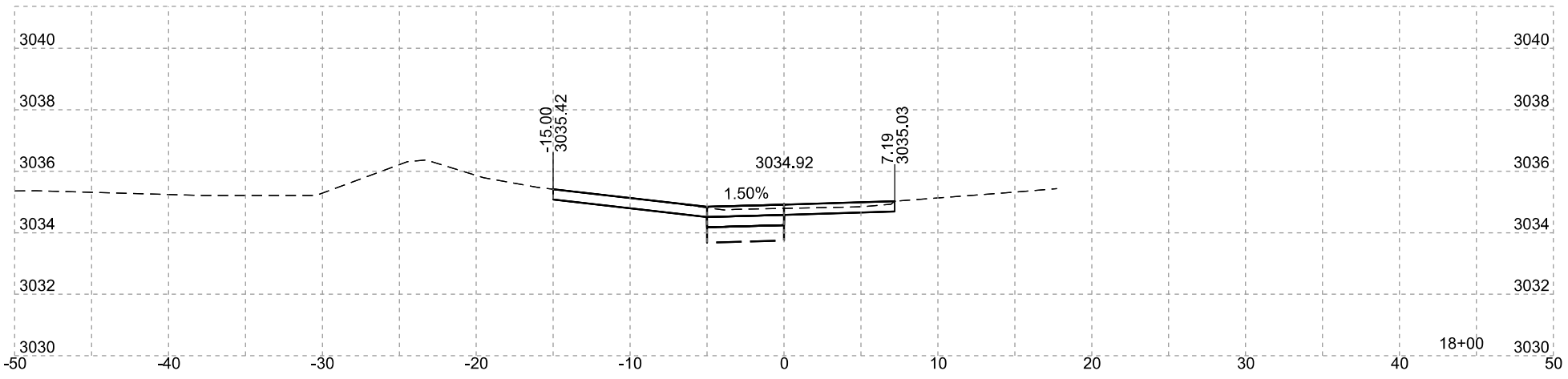
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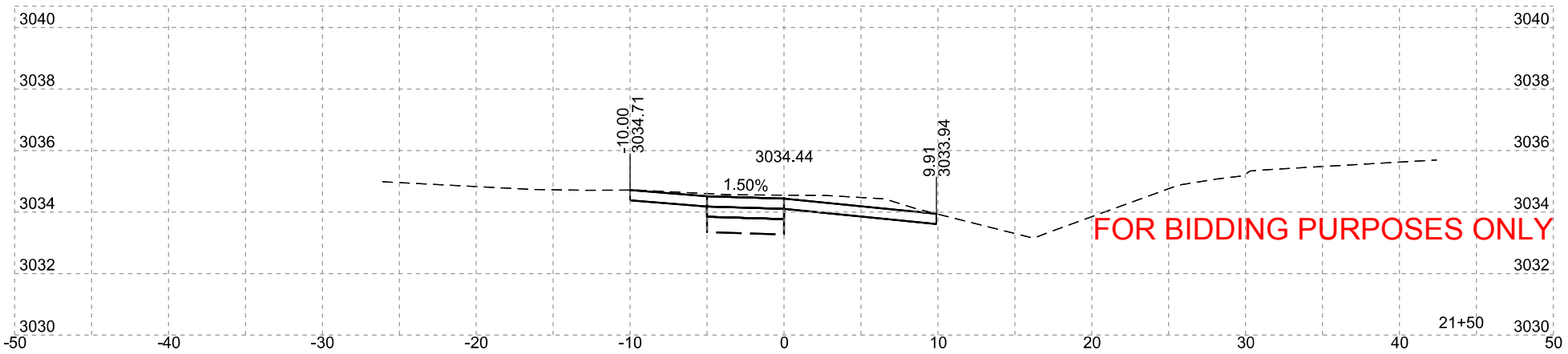


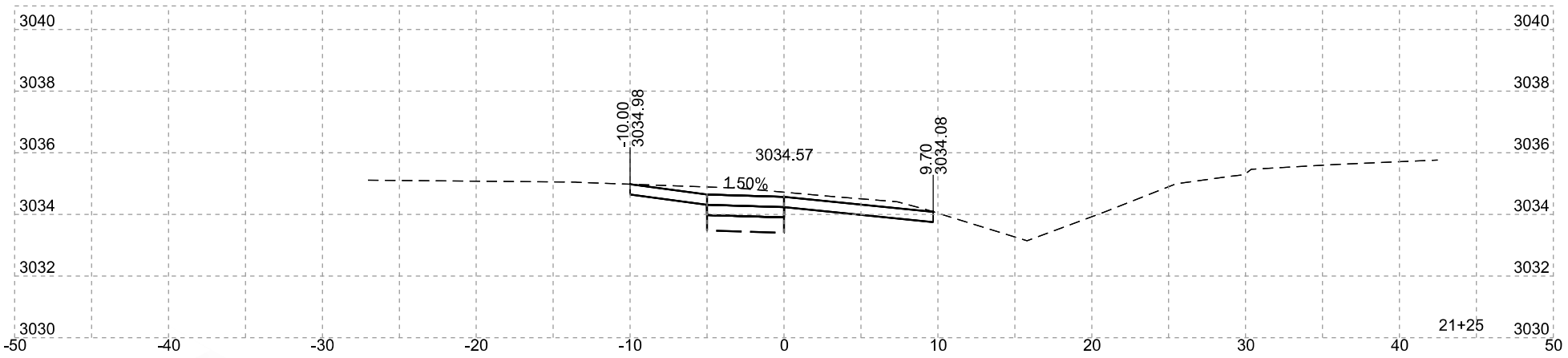


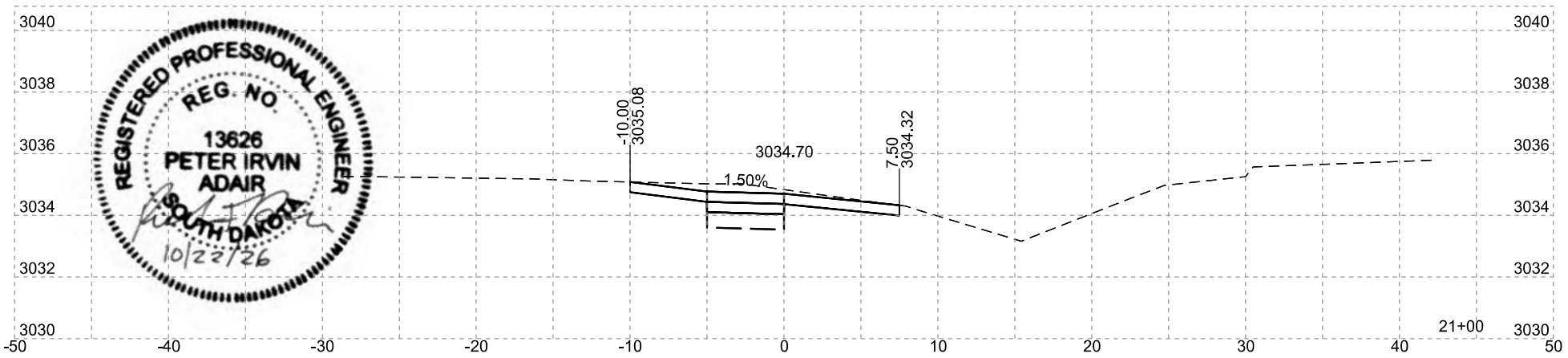


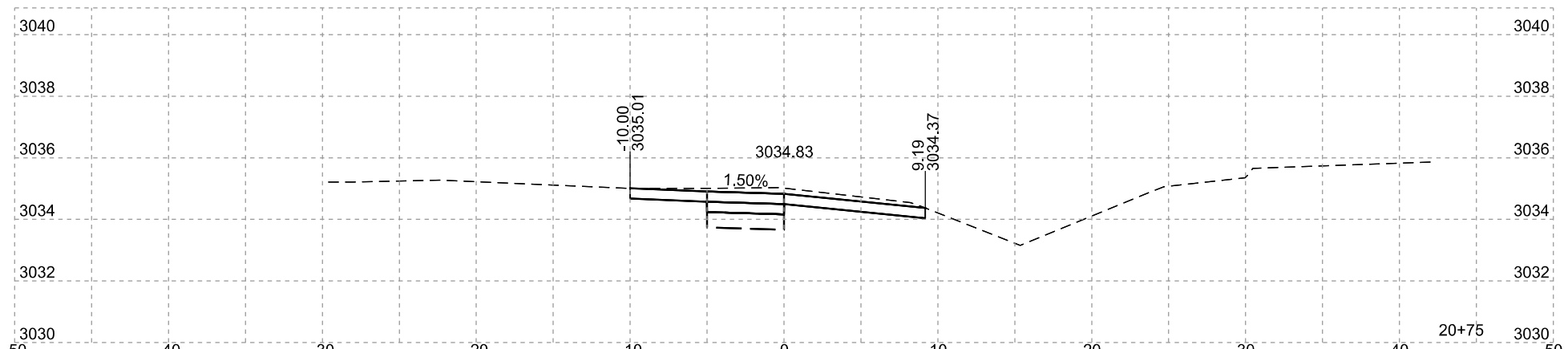
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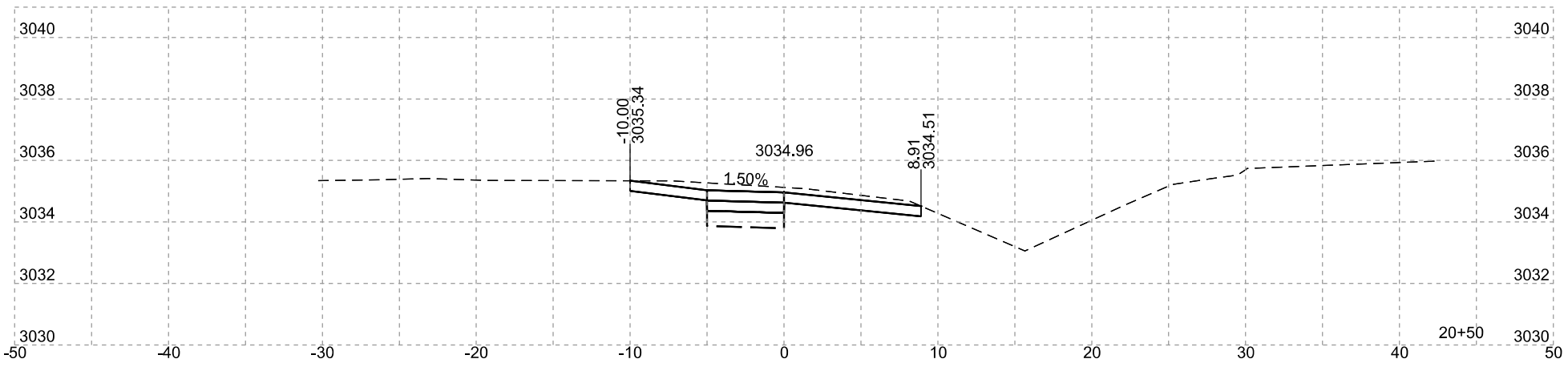
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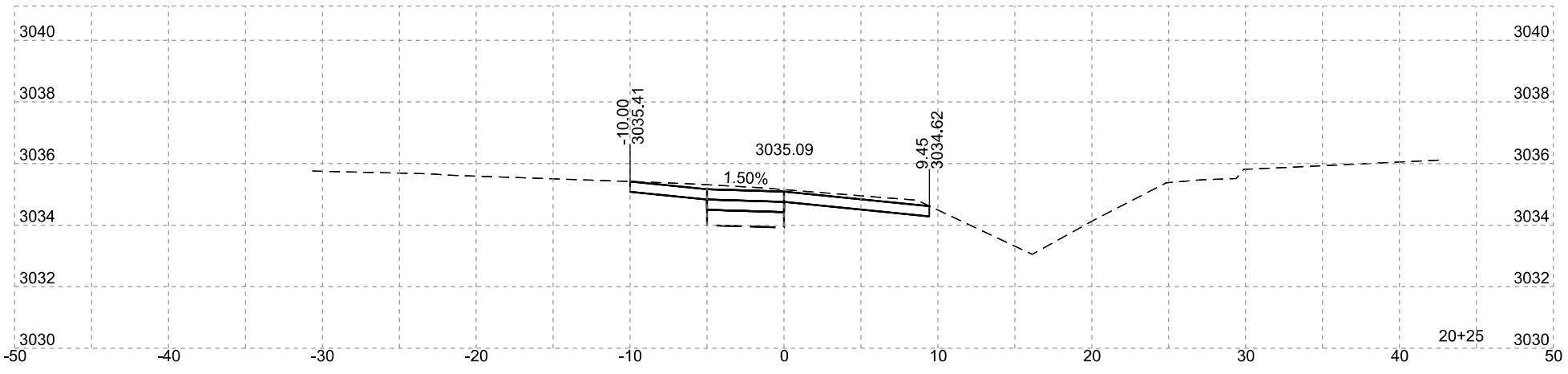












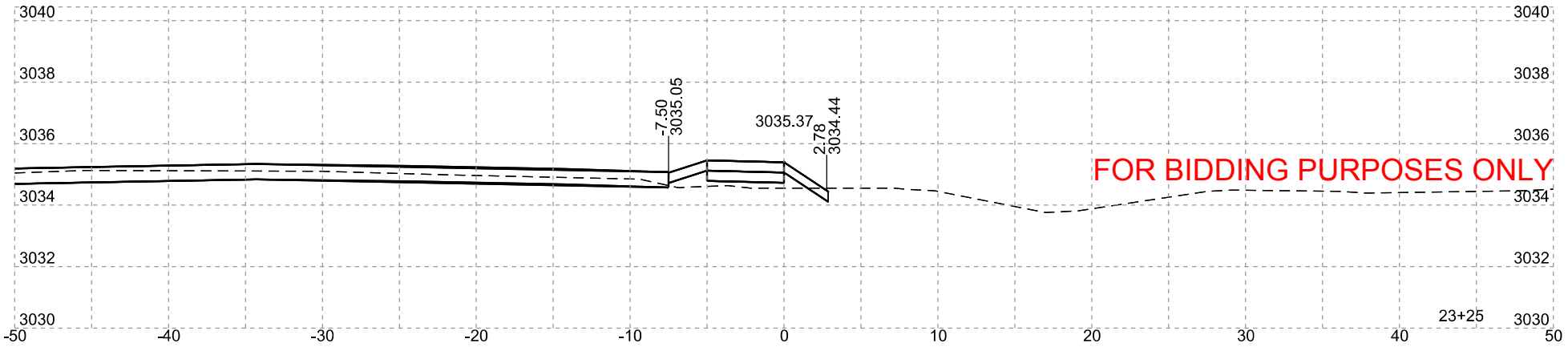
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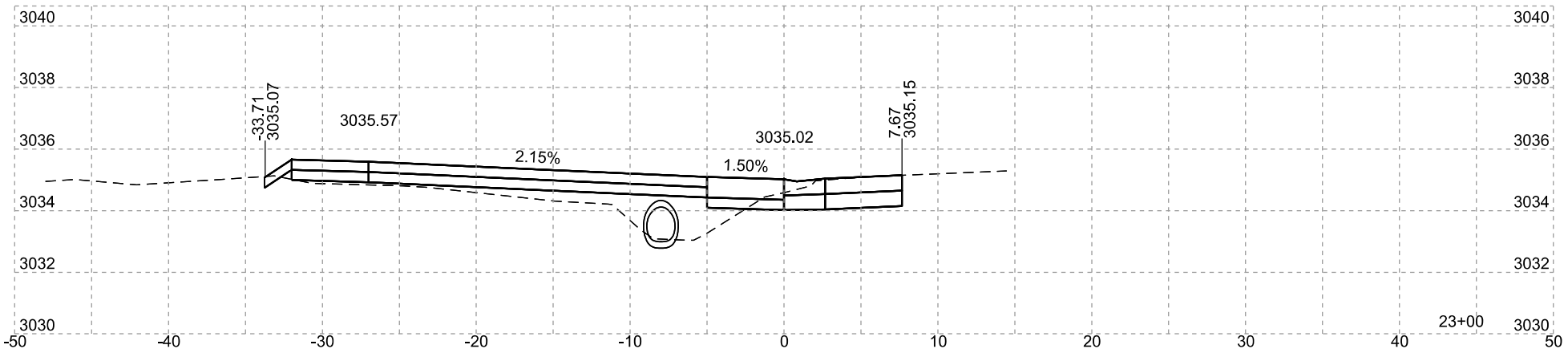
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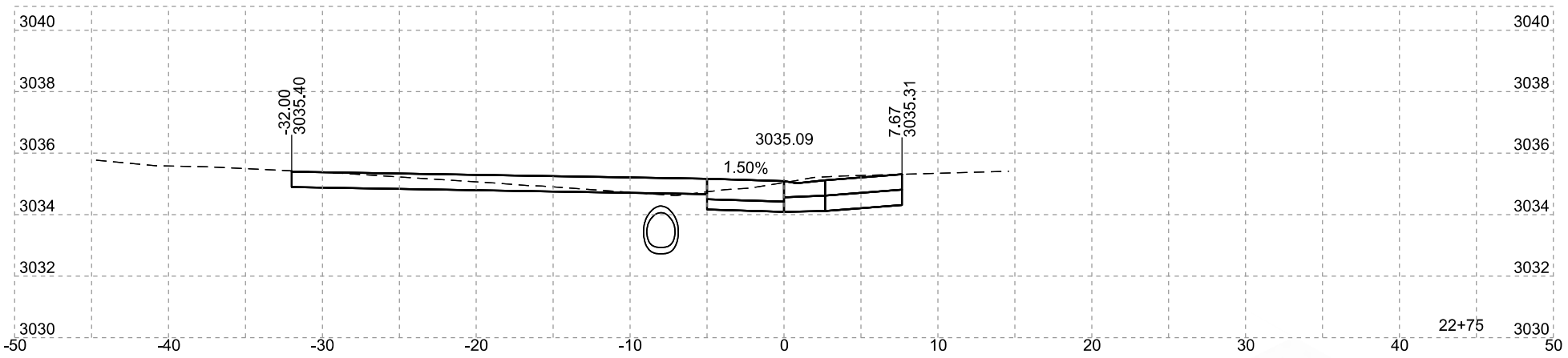
PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	67	68

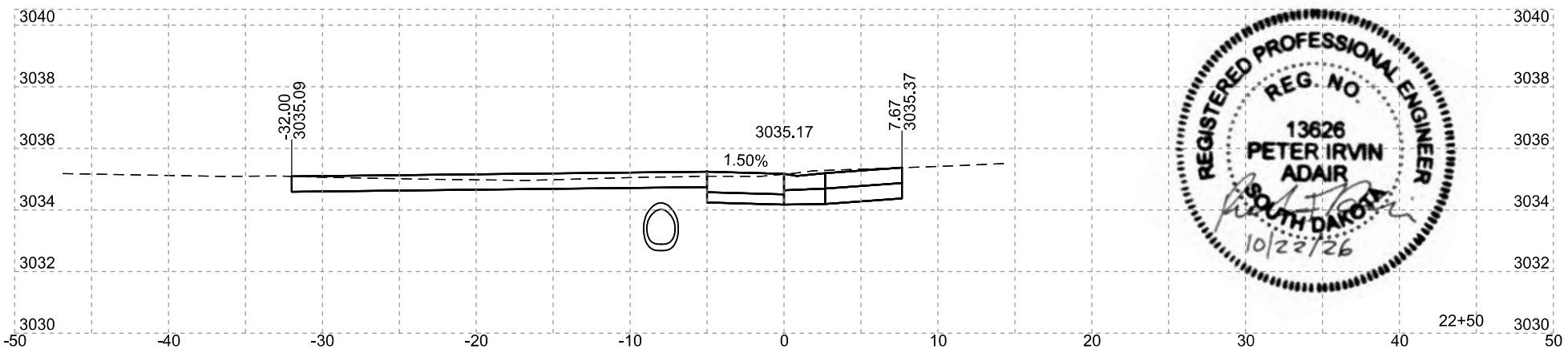
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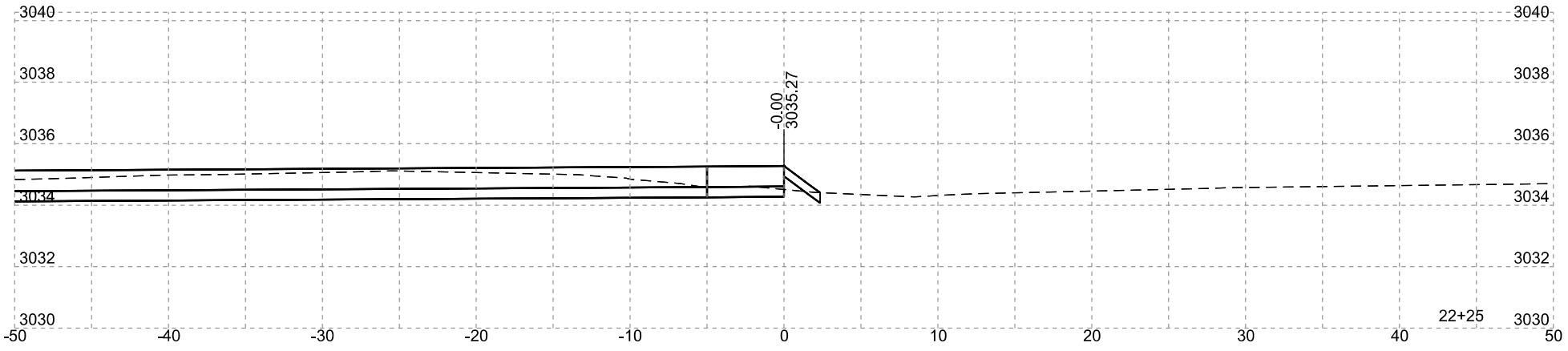
FOR BIDDING PURPOSES ONLY

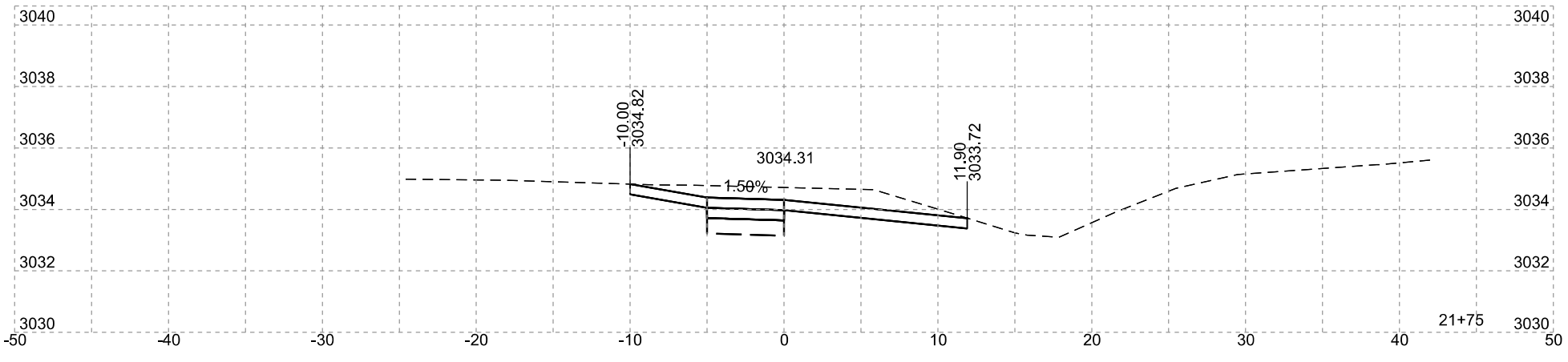






REGISTERED PROFESSIONAL ENGINEER
REG. NO.
13626
PETER IRVIN
ADAIR
SOUTH DAKOTA
10/22/26



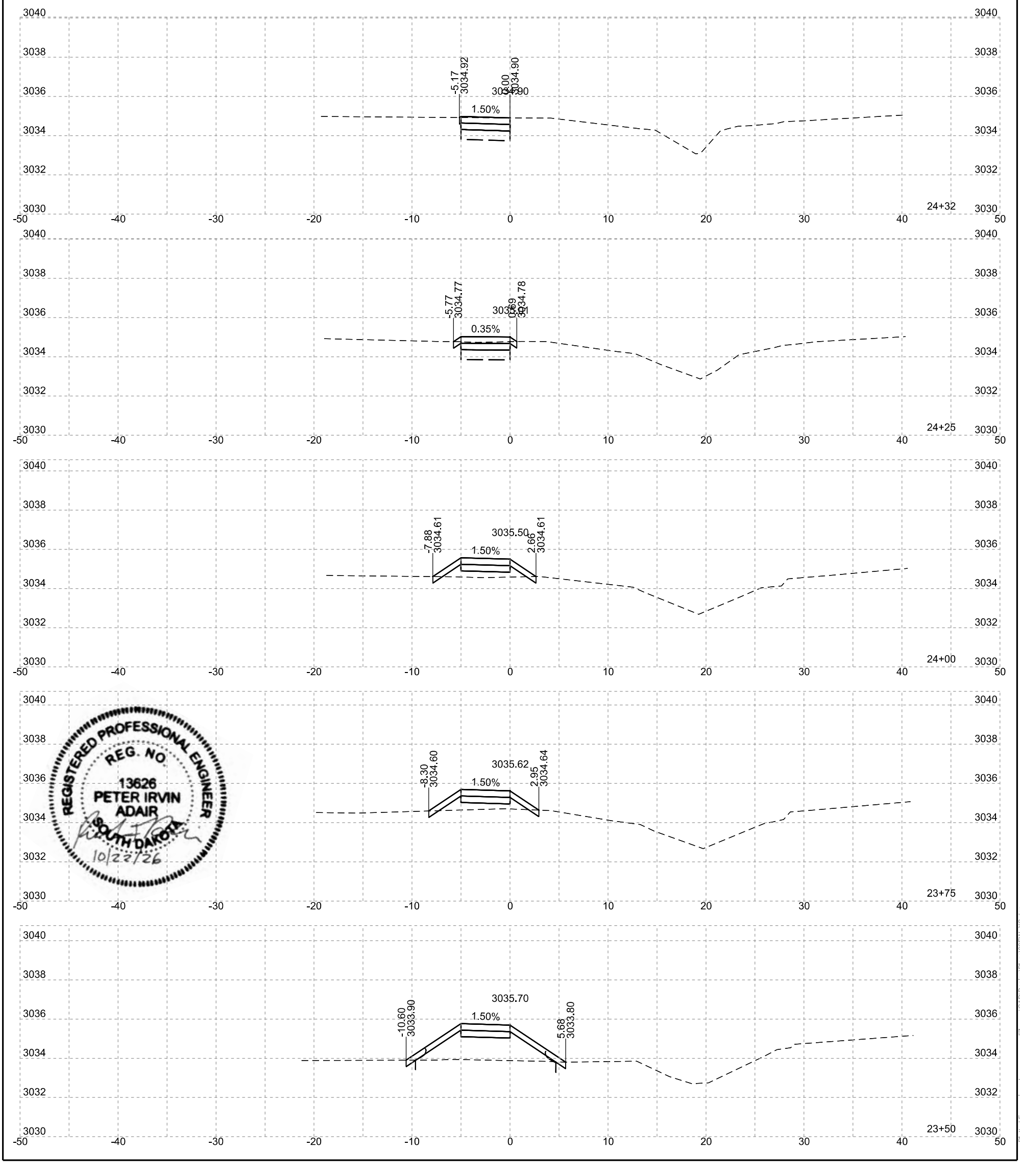


Plotted From - Isaacberg
File - ...\CAD\Design\Plans\09FW_XS.dgn

PROJECT	SHEET	TOTAL SHEETS
P TAPU(39)	68	68

Plotting Date: 10/1/2026

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