BAI JOB # 24020-52

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 1 | 79 |

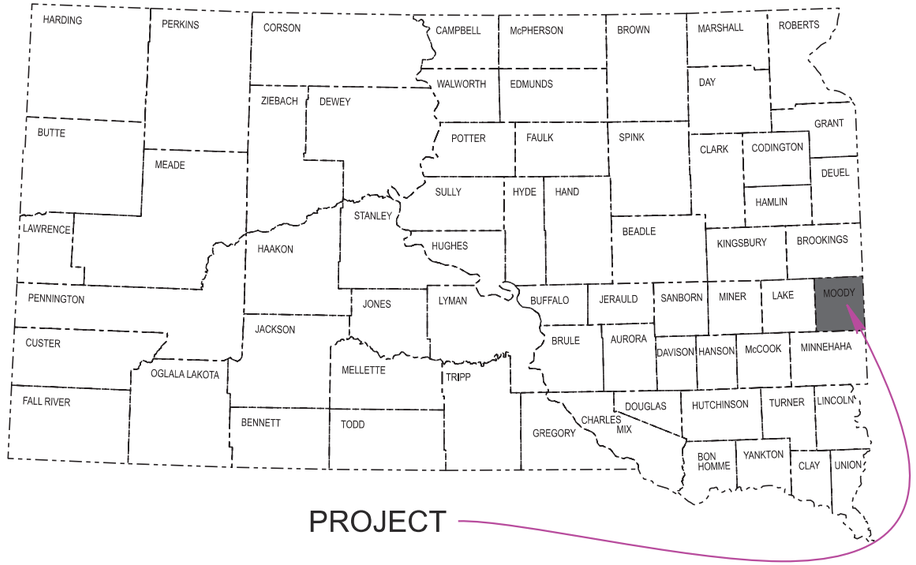
Plotting Date: 3/13/2026

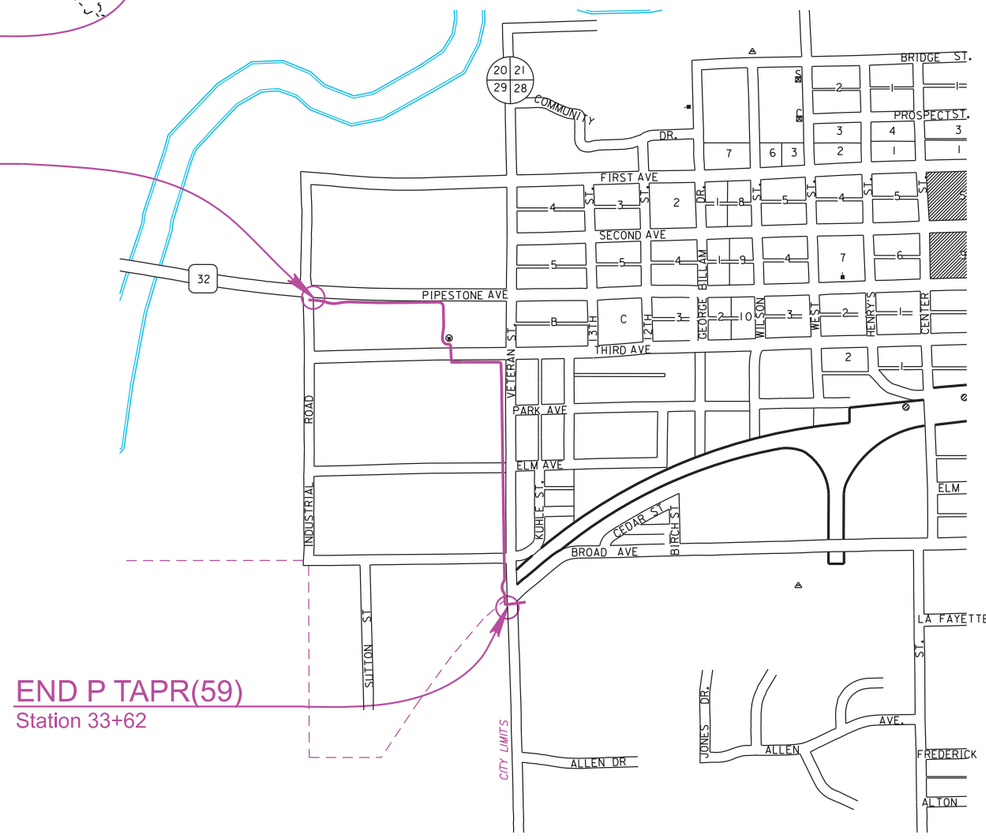
STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

# PROJECT P TAPR(59)
# CITY OF FLANDREAU
# MOODY COUNTY

SHARED USE PATH
PCN 09QN




## INDEX OF SHEETS



BANNER engineering a better community


CONSULTANT CONTACT
Waylon Blasius, PE
Banner Associates, Inc
605-692-6342


DESIGN DESIGNATION

| | |
|---|---|
| SD 32 | |
| AADT (2020) | 3115 |
| AADT (2040) | 3969 |
| D | 50% |
| | |
| Veterans Street | |
| AADT (2020) | 1160 |
| AADT (2040) | 1470 |
| D | 50% |

STORM WATER PERMIT
Major Receiving
Body of Water: Big Sioux River
Area Disturbed: 2.20 Acres
Total Project Area: 2.25 Acres
Approx. Begin Lat,Long: 44.0485, -96.6128

| | | |
|---|---|---|
| Gross Length | 3320 Feet | 0.63 Miles |
| Length of Exceptions | 0.00 Feet | 0.00 Miles |
| Net Length | 3320 Feet | 0.63 Miles |

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
WAYLON BLASIUS
03/13/2026
SOUTH DAKOTA

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May 13, 2026

## Estimate of Quantities

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|---|---|---|---|
| 009E0010 | Mobilization | Lump Sum | LS |
| 009E3230 | Grade Staking | 0.630 | Mile |
| 009E3250 | Miscellaneous Staking | 0.630 | Mile |
| 009E3301 | Engineer Directed Surveying/Staking | 20.0 | Hour |
| 009E4100 | Construction Schedule, Category I | Lump Sum | LS |
| 100E0020 | Clear and Grub Tree | 7 | Each |
| 110E0300 | Remove Concrete Curb and/or Gutter | 802 | Ft |
| 110E0600 | Remove Fence | 70 | Ft |
| 110E1010 | Remove Asphalt Concrete Pavement | 2,239.3 | SqYd |
| 110E1100 | Remove Concrete Pavement | 21.0 | SqYd |
| 110E1130 | Remove Concrete Driveway Pavement | 150.6 | SqYd |
| 110E1700 | Remove Silt Fence | 123 | Ft |
| 110E7150 | Remove Sign for Reset | 6 | Each |
| 110E7802 | Remove Fence for Reset | 148 | Ft |
| 120E0010 | Unclassified Excavation | 1,095 | CuYd |
| 120E0600 | Contractor Furnished Borrow | 739 | CuYd |
| 120E6100 | Water for Embankment | 8.2 | MGal |
| 120E6200 | Water for Granular Material | 14.1 | MGal |
| 120E6300 | Water for Vegetation | 356.8 | MGal |
| 230E0020 | Contractor Furnished Topsoil | 661 | CuYd |
| 260E1010 | Base Course | 267.8 | Ton |
| 260E2010 | Gravel Cushion | 1,013.3 | Ton |
| 260E3010 | Gravel Surfacing | 57.8 | Ton |
| 260E3500 | Temporary Gravel Surfacing | 50.0 | Ton |
| 320E1200 | Asphalt Concrete Composite | 177.6 | Ton |
| 380E3525 | 6" Reinforced PCC Approach Pavement | 1,224.1 | SqYd |
| 380E4010 | 6" PCC Fillet Section | 12.8 | SqYd |
| 380E5010 | Fast Track Concrete | 101.6 | SqYd |
| 451E6080 | Adjust Water Valve Box | 5 | Each |
| 620E4100 | Reset Fence | 148 | Ft |
| 632E3500 | Reset Sign | 6 | Each |
| 633E0030 | Cold Applied Plastic Pavement Marking, 24" | 88 | Ft |
| 633E5015 | Grooving for Cold Applied Plastic Pavement Marking, 24" | 88 | Ft |
| 634E0110 | Traffic Control Signs | 276.0 | SqFt |
| 634E0120 | Traffic Control, Miscellaneous | Lump Sum | LS |
| 634E0275 | Type 3 Barricade | 5 | Each |
| 650E0060 | Type B66 Concrete Curb and Gutter | 538 | Ft |
| 650E4660 | Type P6 Concrete Gutter | 260 | Ft |
| 651E0040 | 4" Concrete Sidewalk | 20,920 | SqFt |
| 651E7000 | Type 1 Detectable Warnings | 96 | SqFt |
| 730E0206 | Type D Permanent Seed Mixture | 375 | Lb |
| 731E0100 | Fertilizing | 42 | Lb |
| 732E0200 | Fiber Mulching | 1.2 | Ton |

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|---|---|---|---|
| 734E0602 | Low Flow Silt Fence | 493 | Ft |
| 734E0610 | Mucking Silt Fence | 34 | CuYd |
| 734E0620 | Repair Silt Fence | 123 | Ft |
| 734E0845 | Sediment Control at Inlet with Frame and Grate | 3 | Each |
| 734E0847 | Sediment Control at Type S Reinforced Concrete Drop Inlet | 9 | Ft |
| 734E5010 | Sweeping | 15 | Hour |
| 900E0010 | Refurbish Single Mailbox | 1 | Each |
| 900E1310 | Concrete Washout Facility | 1 | Each |
| 900E1320 | Construction Entrance | 1 | Each |

## 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/doing-business/environmental/about-environmental/>

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

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.

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
WALDO BIASIUS
03/19/2026
SOUTH DAKOTA

**COMMITMENT D2: SURFACE WATER DISCHARGE**

The DANR General Permit for Temporary Discharge Activities is required for temporary dewatering and discharges to waters of the state. The effluent limit for total suspended solids will be 90 mg/L 30-day average. The effluent limit applies to discharges to all waters of the state except discharges to waters classified as coldwater permanent fish life propagation waters according to the ARSD 74:51:01:45. For discharges to waters of the state classified as coldwater permanent fish life propagation waters, the effluent limit for total suspended solids will be 53 mg/L daily maximum.

The permittee has the option of completing effluent testing or implementing a pollution prevention plan for compliance with this permit. If the permittee develops a pollution prevention plan instead of total suspended solids sampling, the plan must be developed and implemented prior to discontinuing total suspended solids sampling. Refer to Section 4.0 of the permit. If any pollutants are suspected of being discharged, a sample must be taken for those parameters listed in Section 3.4 of the permit.

Refer to Commitment D1: Surface Water Quality for stream classification.

**Action Taken/Required:**

If construction dewatering is required and this project is currently covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the contractor will need to submit the dewatering information to the Project Engineer using the following SDDOT Dewatering Info CDX form:

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

The Contractor will provide a copy of the approved permit or the submitted dewatering information to the Project Engineer prior to proceeding with any dewatering activities. The approved permit or submitted dewatering information must be kept on-site and as part of the project records.

Effluent monitoring, as a result of dewatering activities, will be summarized for each month and recorded on a separate Discharge Monitoring Report (DMR) and submitted to DANR monthly. Additional information can be found at:
< https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/swdpermitting/Ereporting.aspx >

**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 Authorization 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_CGPAppendixCCA2023Fillable.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 G: DEWATERING AND SEDIMENT COLLECTION**

The purpose of a dewatering and sediment collection system is to collect turbid stormwater on the project, treat it with flocculants as needed, and capture the sediment that falls out of suspension before the water is discharged into "Waters of the US" or "Waters of the State". Refer to Commitment D1: Surface Water Quality for stream classification.

**Action Taken/Required:**

The Contractor will meet the terms of the Temporary Discharge Permit and the Storm Water Permit for Construction Activities.

The Contractor will create a Pollution Prevention Plan (PPP) for dewatering and sediment collection if the Contractor chooses to discharge the water into "Waters of the US" or "Waters of the State". Refer to the detail sheet OPTIONS FOR DEWATERING AND SEDIMENT COLLECTION in the plans. The PPP must be kept on-site and updated as site conditions change.

**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".

**COMMITMENT H: WASTE DISPOSAL SITE, Continued**

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.

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SOUTH DAKOTA
03/19/2026

## GRADING OPERATIONS

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste. The estimated quantity of Water for Embankment is 8.2 MGal. No separate payment will be made for the Water for Embankment and all costs associated will be incidental to the contract unit price per cubic yard of "Unclassified Excavation".

## UTILITIES

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 below.

| | |
|---|---|
| **Mediacom**<br>948 22nd Ave S<br>Brookings, SD 57006<br>Attn: Mike Klingenberg<br>Office: (605) 691-0989<br>Email:<br>mikeklingenberg@mediacomcc.com | **Lumen**<br>125 S Dakota Ave<br>Sioux Falls, SD 57104<br>Attn: Andrew Wixon<br>Office: (605) 681-2049<br>Email: andrewwixon@lumen.com |
| **Blue Peak**<br>5100 S Broadband Lane<br>Sioux Falls, SD 57108<br>Attn: Jordan Huber<br>Office: (605) 366-1360<br>Email:<br>jordan.huber@mybluepeak.com | **Valley Fiber**<br>PO Box 284<br>Flandreau, SD 57028<br>Attn: Lane Hildebrandt<br>Office: (605) 437-2615<br>Email: lane.h@valleyfibercom.com |
| **SDN Communications**<br>2900 W 10th St<br>Sioux Falls, SD 57104<br>Attn: Lawrence Escobin<br>Office: (605) 310-7238<br>Email:<br>Lawrence.escobin@sdncomm-unications.com | **MidAmerican Energy**<br>1200 S Blauvelt Ave<br>Sioux Falls, SD 57105<br>Attn: Nicolle Rasmusson<br>Office: (605) 373-6081<br>Email:<br>nicolle.rasmusson@midamerican.com |
| **City of Flandreau (Water/Wastewater/Electric)**<br>1005 W Elm Ave<br>Flandreau, SD 57028<br>Office: (605) 997-2492 | |

## TABLE OF CLEAR AND GRUB TREE (>6" DIAMETER)

| Station | L/R | Quantity (Each) |
|---|---|---|
| 11+04 - 7' | L | 1 |
| 11+20 - 0' | L | 1 |
| 11+22 - 2' | L | 1 |
| 11+22 - 4' | R | 1 |
| 11+22 - 6' | L | 1 |
| 30+49 - 18' | R | 1 |
| 30+86 - 18' | R | 1 |
| Total: | | 7 |

## PROCEDURES FOR DETERMINING UNCLASSIFIED EXCAVATION QUANTITY

The plans quantity will be used for payment of the unclassified excavation quantity. The plans quantity of Topsoil and removed surfacing items will not be adjusted according to field measurements.

**SHRINKAGE FACTOR:** +35%

| Station to | Station | Excavation (CuYd) | Contractor Furnished Borrow Exc. (CuYd) | Total Excavation (CuYd) | ** Waste (CuYd) |
|---|---|---|---|---|---|
| 0+42 | 33+62 | 1,095 | 739 | 1,834 | 1,014 |
| | Totals: | 1,095 | 739 | 1,834 | 1,014 |

** Suitable topsoil excavated from the proposed path footprint may be wasted onsite. Granular material excavated from the proposed path footprint may be utilized for temporary access during construction. All waste material not utilized on site will be removed from the project and taken to a contractor furnished disposal site.

## TABLE OF UNCLASSIFIED EXCAVATION

| | (CuYd) |
|---|---|
| Excavation | 937 |
| Topsoil | 158 |
| Total: | 1,095 |

## 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.

## REMOVAL OF EXISTING CONCRETE PAVEMENT

Existing asphalt concrete and/or existing asphalt concrete patch work that was placed above the existing concrete pavement is included in the quantity for "Remove Concrete Pavement". The Contractor will dispose of the concrete pavement and asphalt concrete at a site approved by the Engineer.

The termination point of all removals shall be saw cut to a true vertical edge prior to removal. All saw cutting will be incidental to the contract unit price for the respective removal item.

## TABLE OF CONCRETE PAVEMENT REMOVAL

| Station | to | Station | | Description | Quantity (SqYd) |
|---|---|---|---|---|---|
| 6+75 | | 6+77 | L | Concrete Pad | 1.6 |
| 9+32 | | 9+45 | L | Concrete Pad | 8.0 |
| 16+61 | | 16+73 | L | Existing Fillet | 11.4 |
| | | | | Total: | 21.0 |

## TABLE OF CONCRETE CURB AND/OR GUTTER REMOVAL

| Station | to | Station | L/R | Quantity (Ft) |
|---|---|---|---|---|
| 0+43 | | 0+49 | | 36 |
| 2+64 | | 4+24 | L | 162 |
| 5+25 | | 6+97 | L | 172 |
| 9+05 | | 9+99 | L | 93 |
| 13+87 | | 13+88 | | 55 |
| 14+26 | | 16+61 | L | 284 |
| | | | Total: | 802 |

## TABLE OF ASPHALT CONCRETE PAVEMENT REMOVAL

| Station | to | Station | L/R | Quantity (SqYd) |
|---|---|---|---|---|
| 0+43 | | 0+49 | | 9.1 |
| 2+17 | | 5+92 | | 844.0 |
| 2+64 | | 4+24 | L | 36.0 |
| 5+25 | | 6+97 | L | 38.2 |
| 5+98 | | 10+20 | | 924.0 |
| 9+05 | | 9+99 | L | 20.8 |
| 12+20 | | 12+40 | R | 14.0 |
| 13+88 | | 13+87 | | 12.3 |
| 14+26 | | 16+73 | L | 68.3 |
| 18+87 | | 19+39 | L | 5.8 |
| 19+98 | | 20+53 | L | 6.1 |
| 21+20 | | 21+81 | L | 6.8 |
| 23+03 | | 23+83 | L | 8.9 |
| 24+16 | | 24+96 | L | 8.9 |
| 28+44 | | 28+99 | L | 5.9 |
| 29+52 | | 30+46 | L | 10.4 |
| 31+04 | | 31+63 | L | 7.2 |
| 33+62 | | 33+63 | | 0.9 |
| | | | Total: | 2027.6 |

## TABLE OF ASPHALT CONCRETE APPROACH PAVEMENT REMOVAL

| Station | to | Station | L/R | Quantity (SqYd) |
|---|---|---|---|---|
| 15+95 | | 16+35 | L | 55.9 |
| 17+81 | | 18+22 | L | 58.7 |
| 26+88 | | 27+68 | L | 97.1 |
| | | | Total: | 211.7 |

## TABLE OF CONCRETE DRIVEWAY PAVEMENT REMOVAL

| Station | to | Station | L/R | Quantity (SqYd) |
|---|---|---|---|---|
| 2+86 | | 3+34 | L | 24.2 |
| 3+56 | | 4+04 | L | 25.1 |
| 5+62 | | 6+10 | L | 25.5 |
| 6+27 | | 6+75 | L | 24.1 |
| 9+45 | | 9+93 | L | 24.3 |
| 14+57 | | 14+92 | | 27.4 |
| | | | Total: | 150.6 |

## TABLE OF TYPE B66 CONCRETE CURB AND GUTTER

| Station | to | Station | L/R | Quantity (Ft) |
|---|---|---|---|---|
| 0+41 | | 0+42 | R | 15 |
| 0+42 | | 0+49 | L | 12 |
| 2+64 | | 2+90 | L | 28 |
| 3+29 | | 4+24 | L | 95 |
| 5+25 | | 5+65 | L | 41 |
| 6+05 | | 6+31 | L | 25 |
| 6+71 | | 6+97 | L | 26 |
| 9+05 | | 9+49 | L | 44 |
| 9+89 | | 9+98 | L | 10 |
| 13+87 | | 13+87 | L | 7 |
| 13+87 | | 13+88 | R | 15 |
| 13+88 | | 13+88 | R | 9 |
| 14+24 | | 14+25 | R | 47 |
| 14+26 | | 14+61 | L | 27 |
| 14+89 | | 15+95 | L | 107 |
| 16+28 | | 16+58 | L | 30 |
| | | | Total: | 538 |

## TABLE OF TYPE P6 CONCRETE CURB AND GUTTER

| Station | to | Station | L/R | Quantity (Ft) |
|---|---|---|---|---|
| 0+42 | | 0+42 | | 8 |
| 2+90 | | 3+29 | L | 40 |
| 5+65 | | 6+05 | L | 40 |
| 6+31 | | 6+71 | L | 40 |
| 9+49 | | 9+89 | L | 40 |
| 13+88 | | 13+88 | R | 16 |
| 13+87 | | 13+87 | | 8 |
| 14+25 | | 14+26 | | 8 |
| 14+61 | | 14+89 | L | 28 |
| 15+95 | | 16+28 | L | 32 |
| | | | Total: | 260 |

## 6" PCC FILLET SECTIONS

Payment for "6" PCC Fillet Section" will be based on plans quantity. If additions or reductions to the area of PCC fillet sections are ordered by the Engineer, payment will be made in accordance with the contract unit price per square yard for "6" PCC Fillet Section".

## TABLE OF 6" PCC FILLET SECTION

| Station | to | Station | L/R | Radius (Ft) | Quantity (SqYd) |
|---|---|---|---|---|---|
| 16+58 | | 16+74 | L | 14 | 12.8 |
| | | | | Total: | 12.8 |

## 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 Warning Panels will be one of the following products:

Type 1 Detectable Warnings

| Product | Manufacturer |
|---|---|
| Detectable Warning Plate Cast Iron Plate | Neenah Foundry Company<br>Neenah, WI<br>800-558-5075<br>http://www.neenahfoundry.com/ |
| Detectable Warning Plate Cast Iron Plate | Deeter Foundry<br>Lincoln, NE<br>800-234-7466<br>http://www.deeter.com/ |
| Detectable Warning Plate Cast Iron Plate(No Coating) | East Jordan Iron Works, Inc.<br>301 Spring Street<br>East Jordan, MI 49727<br>800-626-4653<br>http://www.ejiw.com |
| Iron Dome Cast Iron Detectable Warning Tile | ADA Solutions, Inc.<br>323 Andover Street<br>Suite 3<br>Wilmington, MA 01887<br>800-372-0519 |

## TABLE OF TYPE 1 DETECTABLE WARNINGS

| Station | Quantity (SqFt) |
|---|---|
| 0+42 | 16 |
| 13+85 | 16 |
| 14.26 | 16 |
| 28+80 | 16 |
| 30+17 | 16 |
| 33+62 | 16 |
| Total: | 96 |

## FAST TRACK CONCRETE

The Fast Track Concrete will be designed to achieve a minimum compressive strength of 3000 psi in 24 hours. Use of a water reducer, accelerator, or a high range water reducer may be required to achieve the desired early strength. If any of these additives are used, they will be compatible with all other ingredients of the mix. The minimum pounds of cementitious material will be 600 pounds per cubic yard of Type II or III cement with 15% to 25% fly ash. The coarse aggregate will be a minimum of 50% of total aggregate weight per cubic yard. Coarse aggregate will be crushed ledge rock, Size No. 1 or 15. The water cement ratio will be as low as practical to achieve the desired results. The slump requirement will be limited to 4 inches maximum and the entrained air content will be 4.5% to 7.0% after all admixtures are added to the concrete. The Contractor is responsible for the mix design used. The Contractor will submit a mix design and supporting documentation to the Engineer for approval at least 2 weeks prior to use. The Department of Transportation's Office of Materials & Surfacing will review and comment on the proposed mix design prior to its use.

## TABLE OF FAST TRACK CONCRETE

| Station | to | Station | Quantity (SqYd) |
|---|---|---|---|
| 15+79 | | 16+44 | 57.1 |
| 17+86 | | 18+09 | 44.5 |
| | | Total: | 101.6 |

## ASPHALT CONCRETE COMPOSITE

The Asphalt Concrete Composite shall be Class E, Type 1 with PG 58-34 Binder and shall be placed in lifts no thicker than 3" Compacted.

Asphalt Concrete Composite thickness will match existing thickness of adjacent asphalt or 4" minimum thickness. New asphalt will be 6" thickness.

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## TABLE OF ASPHALT CONCRETE COMPOSITE

| Station | to | Station | L/R | Quantity (Ton) |
|---|---|---|---|---|
| 0+40 | | 0+49 | | 2.1 |
| 2+63 | | 4+24 | L | 8.4 |
| 2+90 | | 3+29 | R | 5.1 |
| 5+25 | | 6+97 | L | 8.9 |
| 5+65 | | 6+05 | R | 5.2 |
| 6+31 | | 6+71 | R | 5.2 |
| 9+05 | | 9+99 | L | 4.8 |
| 9+49 | | 9+89 | R | 5.2 |
| 13+88 | | 13+88 | | 2.9 |
| 14+23 | | 16+73 | | 15.9 |
| 15+95 | | 16+28 | R | 5.9 |
| 17+86 | | 18+09 | R | 1.2 |
| 27+30 | | 27+58 | R | 4.9 |
| 28+54 | | 38+90 | R | 1.8 |
| 29+87 | | 30+11 | | 90.1** |
| Field Determined | | | | 10.0 |
| | | | Total: | 177.6 |

**Denotes location of 6” Asphalt thickness.

## TABLE OF GRAVEL SURFACING

| Station | to | Station | L/R | Quantity (Ton) |
|---|---|---|---|---|
| 14+61 | | 14+89 | R | 4.0 |
| 18+97 | | 19+29 | R | 4.1 |
| 20+09 | | 20+41 | R | 4.1 |
| 21+30 | | 21+70 | R | 5.2 |
| 23+13 | | 23+73 | R | 7.8 |
| 24+26 | | 24+86 | R | 7.8 |
| 26+98 | | 27+30 | R | 4.1 |
| 31+19 | | 31+54 | R | 10.7 |
| Field Determined | | | | 10.0 |
| | | | Total: | 57.8 |

## CONCRETE SIDEWALK

Sidewalk will meet the requirements of Section 651 of the Standard Specifications.

All joints will be sawed in accordance with Section 380.3 P. Max spacing on transverse joints will be 8’. No centerline longitudinal joint will be required.

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.

Expansion joints will be constructed of 1/2 inch preformed expansion joint filler at a maximum spacing of 75 feet or at the locations and of the dimensions specified on the plans. When the concrete sidewalk is placed adjacent to the curb and gutter, the Contractor will place 1/2 inch preformed expansion joint filler longitudinally along the backface of the curb and gutter. When the concrete sidewalk is placed adjacent to other solid fixtures including, but not limited to, buildings, parking lots, driveways, and retaining walls, the Contractor will place a double thickness of preformed expansion joint filler at the back of the sidewalk. All other obstructions will require 1/2 inch preformed expansion joint filler, as directed by the Engineer. In areas where the sidewalk widens at the bridges, 1/2 inch preformed expansion joint filler will be placed transversely across the sidewalk at the beginning of the transition and adjacent to the bridge sidewalk. The expansion joint filler will be placed the full depth of the sidewalk. The Contractor will ensure the expansion joint filler material is securely held in place during concrete placement.

## TABLE OF 4” CONCRETE SIDEWALK

| Station | to | Station | Quantity (SqFt) |
|---|---|---|---|
| 0+42 | | 2+90 | 2043 |
| 3+29 | | 5+65 | 1886 |
| 6+05 | | 6+31 | 206 |
| 6+71 | | 9+49 | 2220 |
| 9+89 | | 13+85 | 3266 |
| 14+30 | | 14+45 | 226 |
| 15+05 | | 15+79 | 597 |
| 16+44 | | 17+86 | 1141 |
| 18+09 | | 18+97 | 703 |
| 19+29 | | 20+09 | 642 |
| 20+41 | | 21+30 | 711 |
| 21+70 | | 23+13 | 1146 |
| 23+73 | | 24+26 | 420 |
| 24+86 | | 26+98 | 1700 |
| 27+58 | | 28+54 | 770 |
| 28+90 | | 29+83 | 744 |
| 30+15 | | 31+19 | 835 |
| 31+54 | | 33+62 | 1664 |
| | | Total: | 20920 |

## 6” REINFORCED PCC APPROACH PAVEMENT

Reinforced PCC approach pavement will be installed with #4 steel bars spaced at 18” on center. All costs for concrete and steel reinforcement will be included in the bid item “6” Reinforced PCC Approach Pavement”.

| Station | to | Station | Quantity (SqFt) |
|---|---|---|---|
| 2+90 | | 3+29 | 75.4 |
| 5+65 | | 6+05 | 76.3 |
| 6+31 | | 6+71 | 75.1 |
| 9+49 | | 9+89 | 75.7 |
| 14+45 | | 15+05 | 82.9 |
| 18+97 | | 19+29 | 68.9 |
| 20+09 | | 20+41 | 69.3 |
| 21+30 | | 21+70 | 83.0 |
| 23+13 | | 23+73 | 125.6 |
| 24+26 | | 24+86 | 135.4 |
| 26+98 | | 27+58 | 137.4 |
| 28+54 | | 28+90 | 97.3 |
| 31+19 | | 31+54 | 121.8 |
| | | Total: | 1224.1 |

## MAILBOXES

The Contractor will reset the existing mailboxes on new posts with the necessary support hardware for single mailbox assemblies. The local Postmaster will determine the recommended mounting height of the mailboxes throughout the project. The Contractor will coordinate with the Engineer on the proper postal representative to contact.

All costs for removing existing mailboxes, providing temporary mailboxes, and resetting mailboxes with new posts and necessary support hardware will be incidental to the contract unit price per each for “Refurbish Single Mailbox”.

One single mailbox will be refurbished at Sta. 16+47 - 2’ L.

## 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.

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## 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.

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.

## TEMPORARY GRAVEL SURFACING

To provide interim access to existing business, the Contractor will install a temporary gravel access as instructed by the Engineer.

- At a minimum, the Contractor will provide a 20’ wide gravel access road. The ends of the access will have a smooth transition onto the existing and proposed pavements.
- Temporary gravel will be a minimum of 4” thick.
- The Contractor will re-grade the access road as directed by the Engineer.
- All costs for furnishing, installing, maintaining, and removing of the temporary gravel road will be incidental to the contract unit price per ton for “Temporary Gravel Surfacing”.
- The gravel material installed will be allowed for re-use as gravel base beneath the proposed pavement if it meets the gravel base specifications. All costs to remove and reinstall will be incidental to the bid item “Temporary Gravel Surfacing”.

## TABLE OF TRAFFIC CONTROL SIGNS

| Sign Description | Sign Code | Width (in) | Height (in) | No. of Signs | Quantity (SqFt) |
|---|---|---|---|---|---|
| Road Closed | R11-2 | 48 | 30 | 2 | 20 |
| End Road Work | G20-2 | 48 | 24 | 6 | 48 |
| Road Work Ahead | W20-1 | 48 | 48 | 6 | 96 |
| Road Closed Ahead | W20-3 | 48 | 48 | 1 | 16 |
| Shoulder Work | W21-5 | 48 | 48 | 6 | 96 |
| | | | | | 276 |

## CONTRACTOR FURNISHED TOPSOIL

It is anticipated that a larger volume of topsoil will be needed for the new grade than can be salvaged from the existing grade. The Contractor will be required to furnish and place 4 inches of topsoil on shared use path inslopes and areas as determined by the Engineer during construction.

Contractor furnished topsoil will be free from stones, coarse gravel, or similar objects larger than 3/4 inch in diameter. Brush, stumps, roots, wood, objectionable weeds, litter, or any other material which may be harmful to plant growth will not be allowed. Organic material will be decomposed.

All costs to furnish and place the Contractor furnished topsoil will be incidental to the contract unit price per cubic yard for “Contractor Furnished Topsoil”.

## FERTILIZING

The Contractor will apply an all-natural slow release fertilizer prior to seeding or placing sod. The all-natural fertilizer will have a minimum guaranteed analysis of 4-4-4 and be USDA Certified BioBased. It should provide a minimum of 4% (N) nitrogen with a minimum water insoluble nitrogen (WIN) fraction of 2.07%, a minimum of 4% ($P_2O_5$) available phosphate, a minimum of 4% ($K_2O$) soluble potash, and a maximum carbon to nitrogen ratio (C:N ratio) of 5:1. The all-natural fertilizer will be free of weed-seed and pathogens accomplished through thermophilic composting, and not mechanical or chemical sterilization, to assure presence of beneficial soil microbiology. The fertilizer will have a near neutral pH, a low salt index, a low biological oxygen demand, contain organic humic and fulvic acids, and have high aerobic organism counts. The fertilizer will also be stable, free of bad odors, and be unattractive as a food source for animals. It should also be in a granular form that is easily spread.

The fertilizer will be applied at a rate of 34 pounds per 1,000 square feet in accordance with the manufacturer’s recommended method of application.

The all-natural slow release fertilizer provided will be from the approved product list. The approved product list may be viewed at the following internet site:

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

## 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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## WATER FOR VEGETATION

Water for vegetation consists of applying water to seeded areas to enhance germination and/or root growth. When watering, use the following guidelines:

Immediately after seeding:

- Keep the topsoil moist but not excessively wet until the seed has germinated.
- Water a minimum of 3 days a week for 2 weeks preferably watering 2 or 3 times a day in small quantities.
- Use fine spray and low pressure to avoid topsoil wash and to prevent uncovering buried seeds.

After emergence:

- Topsoil will be kept thoroughly moistened by sprinkling, as necessary, for 6 weeks. After the 6-week period, an inspection will be made to determine if grass is established enough to suspend watering. Continue watering until grass has been thoroughly established.
- Never apply water at a rate faster than the topsoil can absorb.
- Water during early morning hours or early evening hours.
- Do not water when rain is forecast for the area.
- If rainfall occurs, suspend watering according to rainfall amount.

An estimated 60 Gallons of water per square yard of seeding area was used to compute the quantity for the bid item “Water for Vegetation”.

All costs for furnishing and applying the water including hauling, materials, equipment, labor, and incidentals necessary will be paid for at the contract unit price per MGal for “Water for Vegetation”.

## 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 2,000 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 ton 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:

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

## LOW FLOW SILT FENCE

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

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

Low flow silt fence will be placed at the locations noted in the table 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 734.04 for details.

## TABLE OF LOW FLOW SILT FENCE

| Station | Location | Quantity (Ft) |
|---|---|---|
| 12+91 to 13+77 R | Perimeter Protection | 104 |
| 28+89 to 29+76 R | Perimeter Protection | 94 |
| 31+85 to 33+48 R | Perimeter Protection | 295 |
| | Total: | 493 |

## SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

This type of sediment control device should be used where there is pavement in the vicinity of the drop inlets and storm water or sediment could possibly enter the frame and grate. Sediment Control at Inlet with Frame and Grate will be installed prior to working in the vicinity of the drop inlets.

The Contractor will be responsible for maintaining and repairing the sediment control devices for the duration of the project for which sediment control measures are required. Maintenance will be scheduled to prevent storm water from backing up into the driving lane.

“Sediment Control at Inlet with Frame and Grate” will be paid for one time at each location, regardless of the number of times the sediment control devices are installed, inspected, cleaned, removed, repaired, or replaced. All costs associated with furnishing, installing, inspecting, maintaining, cleaning, sediment removal, and repairing Sediment Control at Inlet with Frame and Grate will be incidental to the contract unit price per each for “Sediment Control at Inlet with Frame and Grate”.

The device will be installed in reinforced concrete drop inlets in accordance with the manufacturer’s recommendations.

Sediment collection devices will be:

The Sediment Control at Inlets with Frames and Grates provided will be from the approved product list. The approved product list may be viewed at the following internet site:

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

## TABLE OF SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

| Station | Quantity (Each) |
|---|---|
| 0+51 - 14’ L | 1 |
| 6+98 - 14’ L | 1 |
| 10+00 - 14’ L | 1 |
| Total: | 3 |

## SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

The Sediment Control Device at Type S Inlets provided will be from the approved product list. The approved product list may be viewed at the following internet site:

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

## TABLE OF SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

| Station | Clear Opening Width (Ft) | Quantity* (Ft) |
|---|---|---|
| 0+42 - 22’ R | 7 | 9 |
| | Total: | 9 |

* Quantity shown is the minimum length required and will be the basis of payment.

## 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. After each day in which material is hauled to the site or waste is hauled offsite.
3. When directed by the Owner or Engineer.

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

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## CONSTRUCTION ENTRANCE

The Contractor will install a Construction Entrance at locations where there is a potential for mud tracking and sediment flow from the construction site and work area onto a paved public roadway.

It is the Contractor's option to use the SDDOT Construction Entrance (See SDDOT Construction Entrance notes and details), a product from the list provided in these notes, or other products or processes as approved by the Engineer during construction.
If the Contractor elects to use one of the products listed in the table, then the Contractor will install the construction entrance product in accordance with the manufacturer's installation instructions or as directed by the Engineer.

The Contractor will maintain the construction entrance such that mud tracking and sediment flow will not enter the roadway or adjacent drainage areas. The construction entrance will be routinely inspected, and the Contractor will repair or replace material as deemed necessary by the Engineer.

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

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

All costs for furnishing, installing, maintaining, and removal of the construction entrance including equipment, labor, materials, and incidentals will be included in the contract unit price per each for "Construction Entrance".

## SDDOT CONSTRUCTION ENTRANCE

If the SDDOT Construction Entrance is utilized, then the Contractor will install the SDDOT Construction Entrance in accordance with these notes and the detail drawings.

Pit run material will be obtained from a granular source and will conform to the following gradation:

| Sieve Size | Percent Passing |
|---|---|
| 6" | 100% |
| #4 | 0-60% |
| #200 | 0-20% |

The pit run material will be compacted to the satisfaction of the Engineer.

The aggregate for the granular material will conform to the following gradation requirements:

| Sieve Size | Percent Passing |
|---|---|
| 3" | 100% |
| 2 ½" | 90-100% |
| 1 ½" | 25-60% |
| ¾" | 0-10% |
| ½" | 0-5% |

The granular material will be placed in 6" maximum lifts.

It is anticipated that the granular material will need to be periodically removed and replaced as it becomes inundated with mud and sediment.

The Reinforcement Fabric (MSE) will conform to Section 831 of the Specifications. The Reinforcement Fabric (MSE) will be on the Approved Products List for this material or will be certified by the supplier to meet this specification prior to installation.

The Reinforcement Fabric (MSE) should be kept as taut as possible prior to placing.

Equipment will not be allowed on the Reinforcement Fabric (MSE) until the first lift of granular material is in place.

All seams in the Reinforcement Fabric (MSE) will be overlapped at least 2' and shingled.

## CONCRETE WASHOUT

A concrete washout will be installed on the project site at a location approved by the Engineer if concrete trucks deliver concrete to the site. No washout area is necessary if all concrete trucks are going to wash out at approved site constructed by the concrete supplier.

The Concrete Washout provided will be from the approved products list. The approved product list may be viewed at the following internet site:

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

## COLD APPLIED PLASTIC PAVEMENT MARKING

All materials will be applied as per the manufacturer's recommendations.

Cold Applied Plastic Pavement Markings will be 3M Series 380 AW or an approved equal and shall be 24" wide white cold applied plastic.

## GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING

The Contractor will establish a positive means for the removal of the grinding and/or grooving residue. Residue from dry grooving will be vacuumed. Solid residue will be removed from the pavement surfaces before being blown by traffic action or wind. The Contractor will conduct this work to control and minimize airborne dust and similar debris that may become a hazard to motor vehicle operation or nuisance to property owners. Residue from wet grooving will not be permitted to flow across lanes being used by public traffic or into gutter or drainage facilities. Residue, whether in solid or slurry form, will be disposed of in a manner that will prevent it from reaching any waterway in a concentrated state. The cleaning of the residue for grooving will be to the satisfaction of the Engineer and may require more than one pass to adequately remove material. All costs for removal of grinding and/or grooving residue will be included in the contract unit price per foot for "Grooving for Cold Applied Plastic Pavement Marking" contract item.

## TABLE COLD APPLIED PLASTIC PAVEMENT MARKING AND GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING

| Station | Quantity (Ft) |
|---|---|
| 13+87 to 14+24 | 48 |
| 29+83 to 30+15 | 40 |
| Total: | 88 |

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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** 2.25 acres
- **5.3 (3b): Total Area to be Disturbed** 2.20 acres
- **5.3 (3c): Maximum Area Disturbed at One Time** <1 acre or 1,000 linear feet
- **5.3 (3d): Existing Vegetative Cover (%)** 100%
- **5.3 (3d): Description of Vegetative Cover** Grass and Gravel Lots
- **5.3 (3e): Soil Properties:** USDA-NRCS Soil Series Classification: Blendon fine sandy loam, cool, 0 to 3 percent slopes
- **5.3 (3f): Name of Receiving Water Body/Bodies** Big Sioux River (1, 5, 8, 9, 10). The Big Sioux River at this location is listed by the state of South Dakota as impaired due to elevated levels of total suspended solids and mercury. This project will not be a source of mercury pollution. Proper implementation of erosion and sediment controls will reduce the discharge of total suspended solids. Based on the topography, it is unlikely any discharge of pollutants from this project would reach the Big Sioux River.
- **5.3 (3g): Location of Construction Support Activity Areas** Along 480th Ave from the Path at Royal River Casino to W 3rd Ave, Along W 3rd Ave from 480th Ave to W Pipestone Ave, Along W Pipestone Ave to Industrial Park Rd

### 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: Street Sweeping | |

**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: Land application | |

**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.
- **Drainage channel at STA 0+00 will be inspected for sediment runoff**
- 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 SDDOT Project Engineer and Contractor's Erosion Control Supervisor are responsible for inspections. Maintenance and repair activities are the responsibility of the Contractor. The SDDOT 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 / Asphalt Concrete
- ☐ Detergents
- ☐ Paints
- ☐ Metals
- ☒ Bituminous Materials
- ☒ Petroleum Based Products
- ☒ Diesel Exhaust Fluid
- ☒ Cleaning Solvents
- ☐ Wood
- ☒ Cure
- ☐ Texture
- ☒ Chemical Fertilizer
- ☐ 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 noted in the Site Map and 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: _____

➢ **SDDOT 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
- 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 of SDDANR, 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 SDDOT 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.

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 15 | 79 |

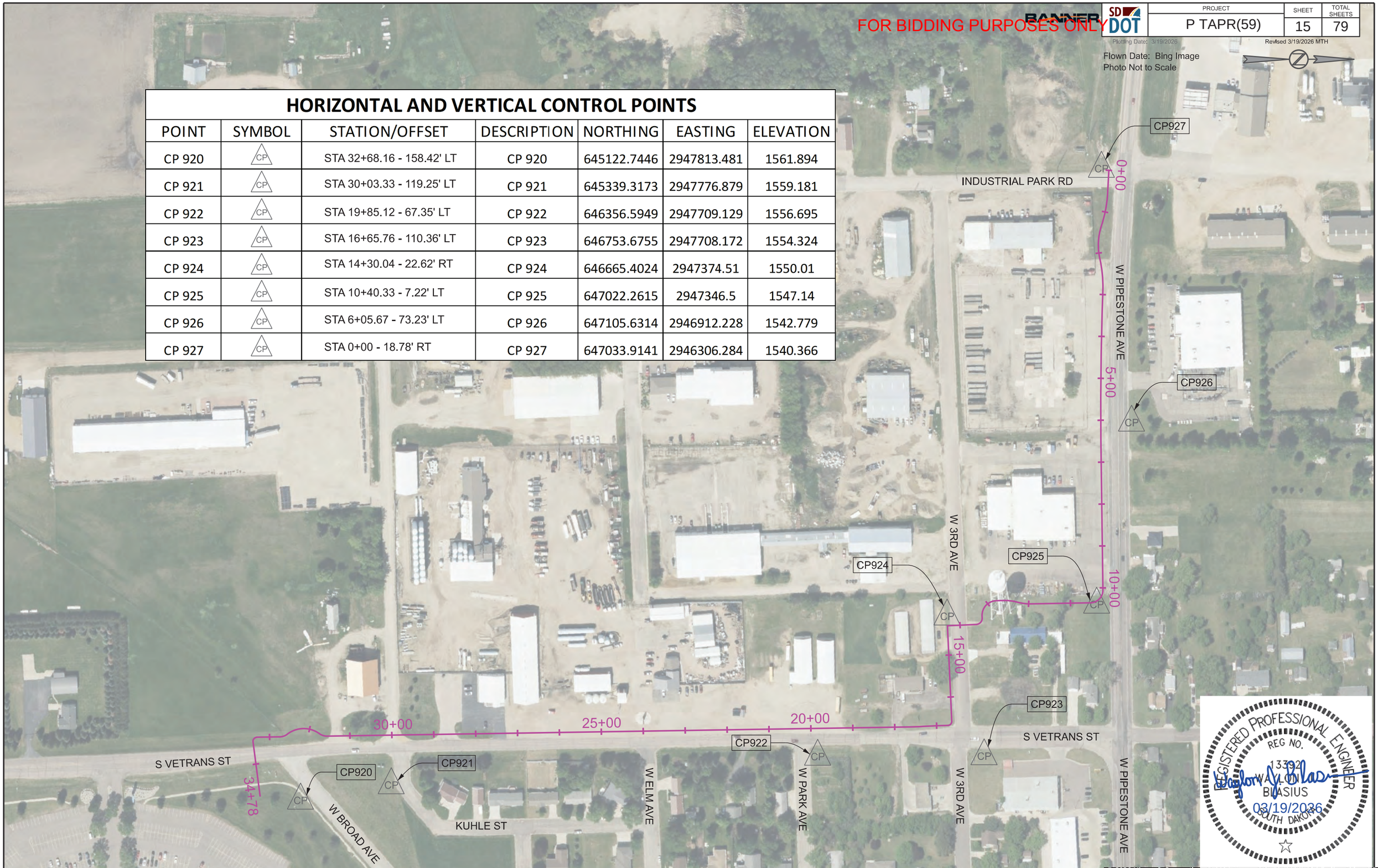
Plotting Date: 3/19/2026

Revised 3/19/2026 MTH

Flown Date: Bing Image
Photo Not to Scale

## HORIZONTAL AND VERTICAL CONTROL POINTS

| POINT | SYMBOL | STATION/OFFSET | DESCRIPTION | NORTHING | EASTING | ELEVATION |
|---|---|---|---|---|---|---|
| CP 920 | CP | STA 32+68.16 - 158.42' LT | CP 920 | 645122.7446 | 2947813.481 | 1561.894 |
| CP 921 | CP | STA 30+03.33 - 119.25' LT | CP 921 | 645339.3173 | 2947776.879 | 1559.181 |
| CP 922 | CP | STA 19+85.12 - 67.35' LT | CP 922 | 646356.5949 | 2947709.129 | 1556.695 |
| CP 923 | CP | STA 16+65.76 - 110.36' LT | CP 923 | 646753.6755 | 2947708.172 | 1554.324 |
| CP 924 | CP | STA 14+30.04 - 22.62' RT | CP 924 | 646665.4024 | 2947374.51 | 1550.01 |
| CP 925 | CP | STA 10+40.33 - 7.22' LT | CP 925 | 647022.2615 | 2947346.5 | 1547.14 |
| CP 926 | CP | STA 6+05.67 - 73.23' LT | CP 926 | 647105.6314 | 2946912.228 | 1542.779 |
| CP 927 | CP | STA 0+00 - 18.78' RT | CP 927 | 647033.9141 | 2946306.284 | 1540.366 |




REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
WAYLON D. BIASIUS
03/19/2026
SOUTH DAKOTA



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# HORIZONTAL ALIGNMENT DATA



**Shared Use Path**

| Type | Station | | | Northing | Easting |
|---|---|---|---|---|---|
| POB | 0+00 | | | 647051.8 | 2946310.196 |
| | | TL= 61.41 | S86°46'51"E | | |
| PC | 0+61 | | | 647048.351 | 2946371.512 |
| PI | 0+98 | R = 300.00 | Delta = 13°43'29" R | 647045.48 | 2946407.502 |
| PRC | 1+33 | | | 647034.153 | 2946441.784 |
| PI | 1+75 | R = 150.00 | Delta = 30°59'28" L | 647021.105 | 2946481.27 |
| PRC | 2+14 | | | 647030.252 | 2946521.838 |
| PI | 2+51 | R = 300.00 | Delta = 13°43'29" R | 647038.193 | 2946557.058 |
| PRC | 2+86 | | | 647037.551 | 2946593.157 |
| PI | 4+93 | R = 8125.84 | Delta = 02°55'05" L | 647030.149 | 2946799.99 |
| PT | 7+00 | | | 647033.285 | 2947006.932 |
| | | TL= 305.12 | N89°15'00"E | | |
| PC | 10+05 | | | 647037.279 | 2947312.031 |
| PI | 10+35 | R = 30.00 | Delta = 89°44'44" R | 647037.67 | 2947341.895 |
| PT | 10+52 | | | 647007.807 | 2947342.419 |
| | | TL= 141.22 | S01°00'16"E | | |
| PC | 11+93 | | | 646866.611 | 2947344.894 |
| PI | 12+09 | R = 120.00 | Delta = 14°38'58" R | 646851.188 | 2947345.165 |
| PT | 12+24 | | | 646836.198 | 2947341.526 |
| | | TL= 7.93 | S13°38'42"W | | |
| PC | 12+32 | | | 646828.497 | 2947339.656 |
| PI | 12+45 | R = 100.00 | Delta = 14°38'58" L | 646816.005 | 2947336.624 |
| PT | 12+58 | | | 646803.153 | 2947336.849 |
| | | TL= 19.77 | S01°00'16"E | | |
| PC | 12+77 | | | 646783.386 | 2947337.196 |
| PI | 13+13 | R = 35.00 | Delta = 91°25'32" L | 646747.509 | 2947337.825 |
| PT | 13+33 | | | 646749.031 | 2947373.674 |
| | | TL= 4.71 | N87°34'12"E | | |
| PC | 13+38 | | | 646749.231 | 2947378.384 |
| PI | 13+53 | R = 15.00 | Delta = 89°50'08" R | 646749.865 | 2947393.327 |
| PT | 13+61 | | | 646734.923 | 2947394.004 |
| | | TL= 68.58 | S02°35'40"E | | |
| PI | 14+30 | | | 646666.415 | 2947397.108 |
| | | TL= 227.62 | N87°24'20"E | | |
| PC | 16+58 | | | 646676.718 | 2947624.496 |
| PI | 16+68 | R = 10.00 | Delta = 91°42'16" R | 646677.184 | 2947634.787 |
| PT | 16+74 | | | 646666.884 | 2947634.947 |
| | | TL= 7.17 | S00°53'24"E | | |
| PC | 16+81 | | | 646659.716 | 2947635.059 |
| PI | 16+97 | R = 800.00 | Delta = 02°17'25" L | 646643.727 | 2947635.307 |
| PT | 17+13 | | | 646627.761 | 2947636.194 |
| | | TL= 18.07 | S03°10'48"E | | |
| PC | 17+31 | | | 646609.715 | 2947637.197 |
| PI | 17+47 | R = 800.00 | Delta = 02°17'17" R | 646593.764 | 2947638.083 |
| PT | 17+63 | | | 646577.79 | 2947638.332 |
| | | TL= 1391.72 | S00°53'31"E | | |
| PC | 31+55 | | | 645186.241 | 2947659.998 |
| PI | 31+65 | R = 30.00 | Delta = 37°08'20" R | 645176.164 | 2947660.155 |
| PRC | 31+74 | | | 645168.036 | 2947654.196 |
| PI | 32+22 | R = 63.46 | Delta = 74°16'40" L | 645129.277 | 2947625.781 |
| PRC | 32+56 | | | 645091.423 | 2947655.389 |
| PI | 32+66 | R = 30.00 | Delta = 37°08'20" R | 645083.484 | 2947661.598 |
| PT | 32+76 | | | 645073.407 | 2947661.755 |
| | | TL= 54.03 | S00°53'31"E | | |
| PC | 33+30 | | | 645019.381 | 2947662.596 |
| PI | 33+41 | R = 10.00 | Delta = 96°33'12" L | 645008.168 | 2947662.771 |
| PT | 33+47 | | | 645009.621 | 2947673.891 |
| | | TL= 131.31 | N82°33'17"E | | |
| POE | 34+78 | | | 645026.636 | 2947804.096 |

REGISTERED PROFESSIONAL ENGINEER
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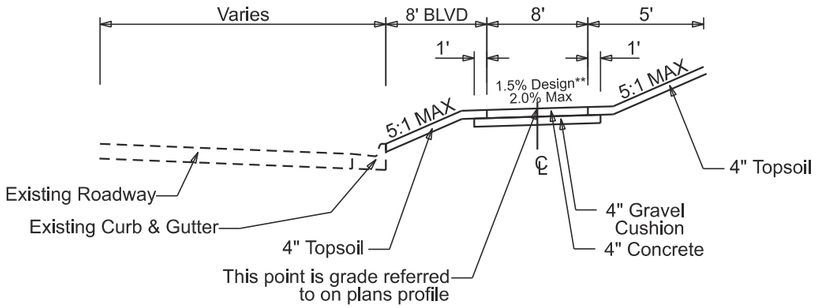
WAYLON J. BIASIUS
SOUTH DAKOTA
03/13/2026

# TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

BAI JOB # 24020-52 | BANNER | SD DOT | PROJECT: P TAPR(59) | SHEET: 17 | TOTAL SHEETS: 79

Plotting Date: 3/12/2026

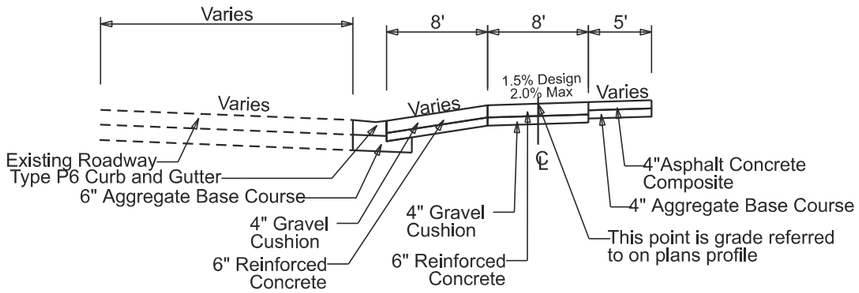



## TYPICAL SECTION 1 - SHARED USE PATH

**STA 0+42 to 10+17**

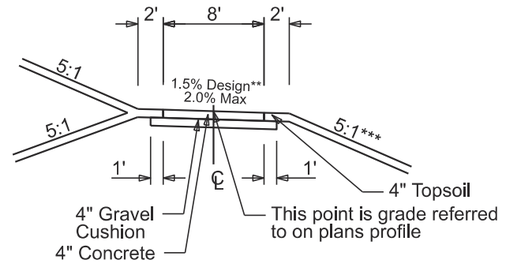
****Varies 1.5% to 1.6% from STA 2+40 to 2+60**
**1.6% from STA 2+60 to 3+00**
**1.6% to 1.5% from STA 3+00 to 3+20**

****Varies 1.5% to 0.3% from STA 5+60 to 5+80**
**0.3% from STA 5+80 to 6+10**
**0.3% to 1.5% from STA 6+10 to 6+40**




## TYPICAL SECTION 2 - W PIPESTONE AVE DRIVEWAYS

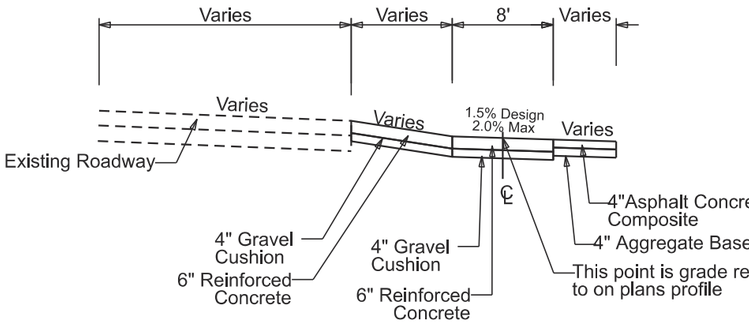
**STA 2+90 to 3+29, STA 5+65 to 6+05, STA 6+31 to 6+71, STA 9+48 to 9+86**




## TYPICAL SECTION 3 - SHARED USE PATH

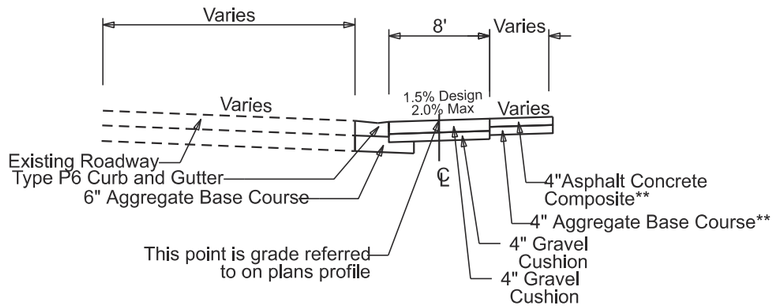
**STA 10+17 to 12+09, STA 12+95 to 13+85**

****Varies 1.5% to -1.5% from STA 10+17 to 10+15**
***** 5:1 to 4:1 transition from STA 11+50 to 12+02**
***** 4:1 from STA 12+02 to 13+03**
***** 4:1 to 1.5% transition from STA 13+03 to 13+10**
***** 1.5% from STA 13+10 to 13+69**




## TYPICAL SECTION 4 - SHARED USE PATH

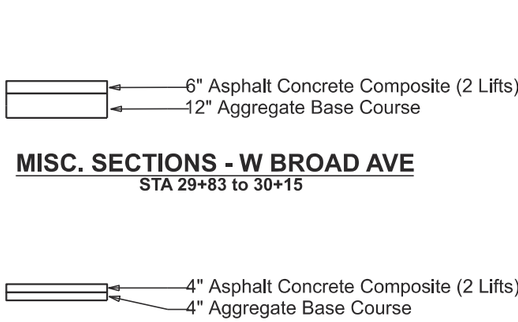
**STA 14+48 to 16+79**




## TYPICAL SECTION 5 - W 3RD AVE DRIVEWAYS

**STA 14+61 to 14+89, STA 15+95 to 16+28**

**** STA 14+61 to 14+89 Driveway will be 4" Gravel Surfacing**




## TYPICAL SECTION 6 - SHARED USE PATH

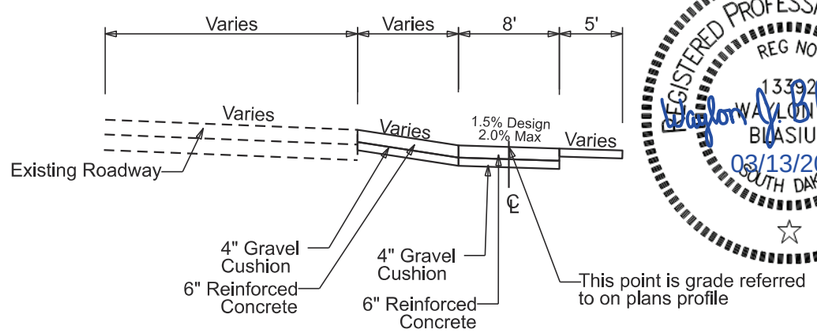
**STA 16+74 to 17+86, STA 18+09 to 18+83, STA 19+43 to 20+89, STA 21+49 to 23+13, STA 23+73 to 24+26, STA 24+86 to 26+98, STA 27+58 to 28+54, STA 24+90 to 29+70, STA 30+28 to 31+19, STA 31+54 to 33+55, STA 34+00 to 33+62**

****Varies -1.5% to 0.23% from STA 33+30 to 33+62**
****Varies -0.40% to 0.17% from STA 33+92 to 34+48**
***** 1.5% from STA 28+90 to 29+70, STA 30+28 to 31+19, STA 31+54 to 33+55**
******10:1 STA 31+54 to 33+55**




## TYPICAL SECTION 7 - S VETERANS ST DRIVEWAYS

**STA 17+86 to 18+09, STA 27+30 to 27+58**




## TYPICAL SECTION 8 - S VETERANS ST DRIVEWAYS

**STA 18+83 to 19+43, STA 20+89 to 21+49, STA 23+13 to 23+73, STA 24+26 to 24+86, STA 26+98 to 27+30, STA 28+54 to 28+90, STA 31+19 to 31+54**





## MISC. SECTIONS - W BROAD AVE

**STA 29+83 to 30+15**




## MISC. SECTIONS - ASPHALT PATCH

# LEGEND

FOR BIDDING PURPOSES ONLY

BAI JOB # 24020-52

BANNER ENGINEERING

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 18 | 79 |

Plotting Date: 3/2/2026

- 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
- Control Point
- 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
- Elec. Trans./Power Jct. Box
- Fence Barbwire
- Fence Chainlink
- Fence Electric
- Fence Misc.
- 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 Misc
- Manhole Sanitary Sewer
- Manhole Storm Sewer
- Manhole Telephone
- Manhole Water
- Merry-Go-Round
- Microwave Radio Tower
- Misc. Line
- Misc. Property Corner
- Misc. 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 R.O.W. 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 Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter

- Detectable Warning
- Pedestrian Push Button Pole and 30" x 48" Clear Space with 1.5% slope

BAI JOB # 24020-52

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 19 | 79 |

Plotting Date: 3/12/2026

Remove Sign for Reset
0+43-1' L

Reset Sign
0+46-11' R

Remove Sign for Reset
0+62-1' L

Reset Sign
0+58-8' R

Rivers Edge Cooperative
(INFORMATION ONLY)

ARG TSFLDSD001, LLC.
(INFORMATION ONLY)

BEGIN P TAPR(59)
Station 0+42

PI 0+61.41
R 300.00'

Present SD Highway 32

PI 2+53.07
R 300.00'

Present W Pipestone Ave

S86°46'51"E

PI 0+97.52
R 300.00'

PI 1+74.86
R 150.00'

PI 4+84.48
R 8125.84'

0+00
1+00
2+00
3+00
4+00
5+00
6+00

T/F

3+55-14'

4+71.82-6.41'

Lot 5A

30 feet

Property Line

S Industrial St

Flandreau Development Corp.

Lot 5A in Block 1 of Flandreau Industrial Park Addition,
to the City of Flandreau, Moody County, South Dakota,
**except Lot Highway R.O.W.**

Lot 5B

Claflin Properties, LLC.

Lot 5B in Block 1 of Flandreau Industrial Park Addition,
to the City of Flandreau, Moody County, South Dakota,
**except Highway R.O.W.**

BLOCK 1

FLANDREAU INDUSTRIAL PARK ADDITION

LOT 4

Flandreau Development Corp.

Lots 3 and 4 in Block 1 of Flandreau Industrial Park Addition,
to the City of Flandreau, Moody County, South Dakota,
except West 30' of Lot 4, and except Lots H-2 and H-3

LOT 3

Parcel 1
0.01 ac, Permanent Easement
(514 sq ft), more or less

Parcel 1
3+55 to 6+27 R
Temporary Easement containing
1468 sq ft, more or less

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
03/13/2026
SOUTH DAKOTA

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BAI JOB # 24020-52

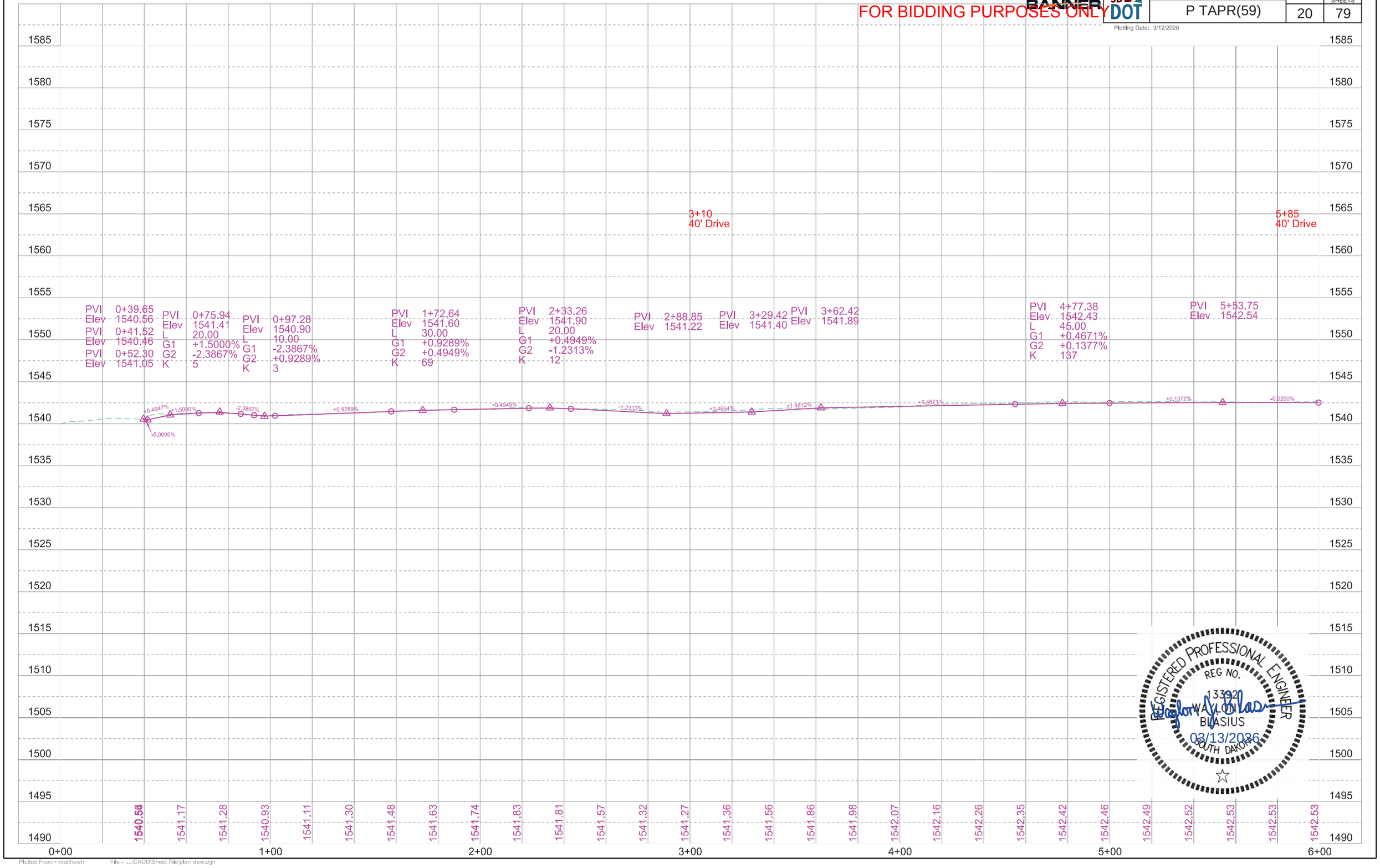
BANNER

FOR BIDDING PURPOSES ONLY

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 20 | 79 |

Plotting Date: 3/12/2026




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
TAYLOR W.
BIASIUS
SOUTH DAKOTA

Taylor W. Biasius
03/13/2026

BAI JOB # 24020-52

BANNER ASSOCIATES

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 21 | 79 |

Plotting Date: 3/19/2026

Revised 3/19/2026 MTH

FOR BIDDING PURPOSES ONLY

Clear and Grub Tree
30+49-18' R
30+86-18' R

Remove Fence for Reset
32+88-24' R to 33+43-68' R

Reset Fence
32+88-24' R to 33+43-68' R

Remove Sign for Reset
33+48-13' R

Reset Sign
33+48-13' R

SEC 28 - T107N - R48W

SW1/4

U.S.A. in Trust for Flandreau Santee Sioux Tribe

SW1/4 of Section 28 - Township 107 North - Range 48 West of the 5th P.M., except R.R. WYE

Flandreau Santee Sioux Tribe

Block 1 in Railroad Addition to the City of Flandreau, South Dakota

BLOCK 1

S Kunfe St

W Broad Ave.

34+78

34+00

N82°33'17"E

END P TAPR(59)
Station 33+62

CITY LIMITS

Section Line

S Veterans St

PI 32+66.35
R 30.00'

S00°53'31"E

PI 31+64.64
R 30.00'

PI 33+40.97
R 10.00'

PI 32+22.07
R 63.46'

30+00

31+00

32+00

33+00

1558'

1/4 Line

W Broad Ave.

30+23-63'

31+34.16-18.44'

31+43-28'

31+93-47'

32+78-14'

32+88.00-24.10'

33+13-49'

33+40-90'

E1/2 SE1/4

LOT 1 OF OUTLOT A

HW Enterprises, LLC.

Lot 1 of Outlot A in the E1/2 SE1/4 of Section 29 - Township 107 North - Range 48 West of the 5th P.M.

Parcel A7

Flandreau Development Corp.

Outlot A in the E1/2 SE1/4 of Section 29 - Township 107 North - Range 48 West of the 5th P.M., except Flandreau Industrial Park Second Addition, Railroad R.O.W., and Lot 1 of Outlot A

Parcel 5
0.03 ac, Permanent Easement
(1361 sq ft), more or less

OUTLOT A

Amdahl Family Revocable Trust

All that portion of the NE1/4 SE1/4, lying and being South of the right of way of the Chicago, Milwaukee and St. Paul Railway of Section 29 - Township 107 North - Range 48 West of the 5th P.M., except Amdahl's Tract

Parcel A8

70'-4 1/4"

FLANDREAU

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
BRADLEY L. BLASIUS
SOUTH DAKOTA
03/13/2026

SEC 29 - T107N - R48W

Parcel A7
30+23 to 31+93 R
Temporary Easement containing
5469 sq ft, more or less

Parcel 5
31+43 to 33+13 R
Temporary Easement containing
3498 sq ft, more or less

Parcel A8
32+78 to 33+40 R
Temporary Easement containing
3513 sq ft, more or less

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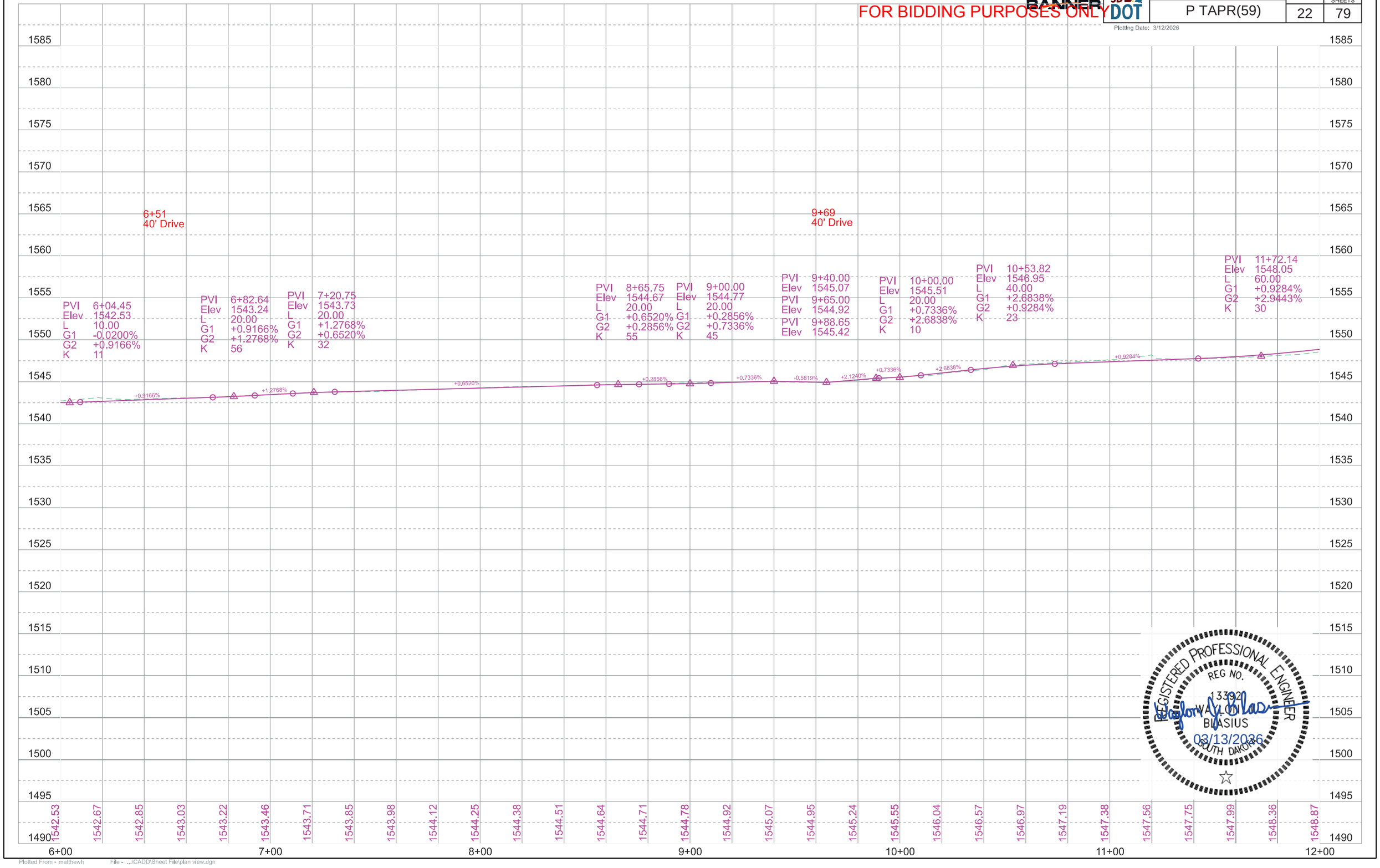
BAI JOB # 24020-52

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 22 | 79 |

Plotting Date: 3/12/2026




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
03/13/2026
SOUTH DAKOTA

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BAI JOB # 24020-52

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 23 | 79 |

Plotting Date: 3/12/2026

LOT 1

LOT 1

City of Flandreau

Lot 1, Tower Addition, in L.B. Pettigrew's Subdivision, to the City of Flandreau, Moody County, South Dakota

Parcel 4

0.14 ac, Permanent Easement (6254 sq ft), more or less

LOT D

Flandreau Santee Sioux Tribe

Parcel 2

East Side Baptist Church of Sioux Falls

(INFORMATION ONLY)

WEST END PLAZA ADDITION

TRACT 1

Refurbish Single Mailbox
16+47-2' L

Adjust Water Valve Box
16+70-5' L
16+70-1' L

Remove Sign for Reset
16+68-3' L

Reset Sign
16+64-7' R

Remove Sign for Reset
17+52-16' R

Reset Sign
17+52-16' R

TRACT 22

S Veterans St

LOT A

Flier Investment Group, LLC.

(INFORMATION ONLY)

BLOCK 1

FLANDREAU INDUSTRIAL PARK ADDITION

PI 12+08.88
R 120.00'

PI 12+44.91
R 100.00'

PI 13+13.28
R 35.00'

PI 13+52.92
R 15.00'

PI 16+67.98
R 10.00'

PI 16+96.84
R 800.00'

PI 17+46.88
R 800.00'

PI 14+30.06
R 0.00'

S13°58'42"W

S01°00'16"E

N87°34'12"E

N87°24'20"E

S02°35'40"E

S00°53'24"E

S03°10'48"E

12+70.89-4.23'

13+13-16'

13+48.84-23.76'

13+48-28'

13+49-24'

13+06-50'

13+13-38'

13+12.65-38.43'

13+72.63-9.64'

14+00

14+30-64'

15+20-14'

16+23-14'

17+00

17+86-14'

17+86-47'

18+00

153 feet

177 feet

238 feet

238 feet

1553'

West 3rd Avenue

West 3rd Avenue

West 3rd Avenue

Lot 1

Ramburg, LLC.

(INFORMATION ONLY)

Amity Storage

The South 238' of the North 304' of the West 153' in Tract 24 in the E1/2 E1/2 of Section 29 - Township 107 North - Range 48 West of the 5th P.M.

Parcel A1

Michael Prins, Dr.

The South 238' of the North 304' of the East 177' in Tract 24 in the E1/2 E1/2 of Section 29 - Township 107 North - Range 48 West of the 5th P.M.

Parcel A2

Sparkle Car Wash, Inc.

(INFORMATION ONLY)

LOT 16 - 24

BLOCK 1

WEST VIEW ADDITION

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WAYLON
BIASIUS
03/13/2026
SOUTH DAKOTA

Parcel 2
11+98 to 13+06 R
Temporary Easement containing
2554 sq ft, more or less

Parcel 4
11+20 to 13+49 L
Temporary Easement containing
1798 sq ft, more or less

Parcel A1
14+30 to 15+20 R
Temporary Easement containing
735 sq ft, more or less

Parcel A2
15+20 to 19+13 R
Temporary Easement containing
5901 sq ft, more or less

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FOR BIDDING PURPOSES ONLY

14+06
Int. Street
(W 3rd Ave)

14+75
28' Drive

16+12
32' Drive

17+98
23' Drive

PVI 12+36.56
Elev 1549.95
L 38.00
G1 +2.9443%
G2 +1.0972%
K 21

PVI 13+31.10
Elev 1550.98
L 50.00
G1 +1.0972%
G2 -1.5000%
K 19

PVI 13+70.98
Elev 1550.38
PVI 13+85.98
Elev 1549.26
PVI 13+87.52
Elev 1549.34

PVI 14+23.70
Elev 1549.34
PVI 14+25.32
Elev 1549.26
PVI 14+31.23
Elev 1549.35
PVI 14+34.05
Elev 1549.40
PVI 14+42.05
Elev 1549.96

PVI 14+44.83
Elev 1550.04
PVI 14+60.83
Elev 1550.03

PVI 15+04.81
Elev 1551.20
PVI 14+88.81
Elev 1550.53

PVI 15+79.46
Elev 1552.59
PVI 15+95.43
Elev 1552.49

PVI 16+27.67
Elev 1553.15
PVI 16+43.67
Elev 1553.91

PVI 16+73.90
Elev 1554.70
L 14.00
G1 +2.6075%
G2 -1.2820%
K 4

PVI 17+18.72
Elev 1554.13
L 20.00
G1 -1.2820%
G2 +0.0784%
K 15

PVI 17+76.97
Elev 1554.17
L 20.00
G1 +0.0784%
G2 +1.1402%
K 19

+2.9443%
+1.0972%
-1.5000%
-5.0000%
+7.0546%
-0.0927%
+1.8100%
+1.5000%
-5.0000%
+2.5753%
+1.7700%
+2.0900%
+1.8600%
-0.6040%
+2.0600%
+4.7405%
+2.6075%
-1.2820%
+0.0784%
+1.1402%

1595 1590 1585 1580 1575 1570 1565 1560 1555 1550 1545 1540 1535 1530 1525 1520 1515 1510 1505 1500

1548.87 1549.46 1549.92 1550.20 1550.42 1550.64 1550.81 1550.78 1550.55 1549.71 1549.66 1549.44 1549.82 1550.03 1550.37 1551.00 1551.48 1551.85 1552.22 1552.58 1552.58 1553.00 1553.74 1554.34 1554.62 1554.37 1554.15 1554.14 1554.16 1554.22 1554.43

12+00 13+00 14+00 15+00 16+00 17+00 18+00

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
TAYLOR J. BIASIUS
03/13/2026
SOUTH DAKOTA

FOR BIDDING PURPOSES ONLY

LOTS 16 - 24

Sparkle Car Wash, Inc.
(INFORMATION ONLY)

LOTS 13 - 15

Bruce and Wanda Kunze
(INFORMATION ONLY)

LOTS 23 & 24

Bruce and Wanda Kunze
(INFORMATION ONLY)

LOTS 17 - 22

Allen and Eileen Hecht
(INFORMATION ONLY)

LOTS 13 - 16

Michael and Donna Vardsveen
(INFORMATION ONLY)

BLOCK 1

WEST VIEW ADDITION

BLOCK 2

WEST VIEW ADDITION

W Elm Ave.

Section Line

S Veterans St

18+00 19+00 20+00 21+00 22+00 23+00 24+00

239 feet

25 feet

92 feet

17+86-14"

17+86-47"

19+13-14"

21+50-14"

21+75-14"

Michael Prins, Dr.

Parcel A2

177 feet

Donna Hageness

The South 239' of the North 543' of the
East 330' in Tract 24 in the E1/2 E1/2 of
Section 29 - Township 107 North - Range 48
West of the 5th P.M.

Parcel A3

330 feet

330 feet

Ramsburg, LLC.
In contract for deed with INOR, Inc.

The South 92' of the East 330' in Tract 24 and the
North 396' of the East 330' in Tract 25 of the
James A. Faris Addition Subdivision in the E1/2 E1/2 of
Section 29 - Township 107 North - Range 48
West of the 5th P.M.

Parcel A5

238 feet

330 feet

153 feet

*FLANDREAU*

SEC 29 - T107N - R48W

Ramsdell F & M

The South 25' of the North 568' of the
East 330' in Tract 24 in the E1/2 E1/2 of
Section 29 - Township 107 North - Range 48
West of the 5th P.M.

Parcel A4

TRACT 24

Amity Storage
(INFORMATION ONLY)

Parcel A3
19+13 to 21+50 R
Temporary Easement containing
1890 sq ft, more or less

Parcel A4
21+50 to 21+75 R
Temporary Easement containing
200 sq ft, more or less

Parcel A5
21+75 to 27+18 R
Temporary Easement containing
4348 sq ft, more or less

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
BRYAN L. BIASIUS
SOUTH DAKOTA
03/13/2026

BAI JOB # 24020-52

BANNER ASSOCIATES

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 26 | 79 |

FOR BIDDING PURPOSES ONLY

Plotting Date: 3/12/2026

19+13
32' Drive

20+25
32' Drive

21+50
40' Drive

23+43
60' Drive

PVI 19+93.06
Elev 1556.63
L 40.00
G1 +1.1402%
G2 +0.1944%
K 42

PVI 21+85.69
Elev 1557.01
L 40.00
G1 +0.1944%
G2 +0.7233%
K 76

PVI 22+89.24
Elev 1557.76
L 25.00
G1 +0.7233%
G2 +0.3966%
K 77

+1.1402%
+0.1944%
+0.7233%
+0.3966%

1595 1590 1585 1580 1575 1570 1565 1560 1555 1550 1545 1540 1535 1530 1525 1520 1515 1510 1505 1500

1554.43 1554.66 1554.89 1555.12 1555.35 1555.57 1555.80 1556.03 1556.26 1556.48 1556.63 1556.69 1556.73 1556.77 1556.80 1556.84 1556.88 1556.92 1556.96 1557.02 1557.12 1557.26 1557.40 1557.55 1557.69 1557.80 1557.88 1557.96 1558.04 1558.12 1558.20

18+00 19+00 20+00 21+00 22+00 23+00 24+00

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13321
TAYLOR J.
BIASIUS
03/13/2026
SOUTH DAKOTA

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BAI JOB # 24020-52

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 27 | 79 |

Plotting Date: 3/12/2026

Adjust Water Valve Box
29+69-5' R
29+73-4' R
29+76-6' R

KUHLE'S FOURTH ADDITION

LOT 1 | LOT 2 | LOT 3 | LOT 4 | LOT 5 | LOT 6 | LOT 7 | LOT 8 | LOT 9

Zachary Zephier and Alison Zephier
(INFORMATION ONLY)

Russell and Barbara Kneebone
(INFORMATION ONLY)

Michael and Jeri Kellen
(INFORMATION ONLY)

Charles and Valerie Sutton Trust
(INFORMATION ONLY)

Duane and Tamra Rice
(INFORMATION ONLY)

W Elm Ave.

Property Line

4 feet

13.98 feet

20 feet | 30 feet | 46 feet | 26 feet | 24 feet | 105 feet

S Kuhle St

Section Line

S Veterans St

S00°53'31"E

21+00 | 24+00 | 25+00 | 26+00 | 27+00 | 28+00 | 29+00 | 30+00

27+18-14'

264 feet

29+29-14' | 29+29-19' | 29+82-18'

1/4 Line

W Broad Ave

Ramsburg, LLC.

Parcel A5

TRACT 25

FLANDREAU

330 feet

Ramstrong, LLC.

The South 264' of the East 330' in Tract 25
in the E1/2 E1/2 of Section 29 - Township 107 North -
Range 48 West of the 5th P.M.

Parcel A6

Parcel A6
27+18 to 29+82 R
Temporary Easement containing
2377 sq ft, more or less

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
03/13/2026
SOUTH DAKOTA

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FOR BIDDING PURPOSES ONLY

24+56
60' Drive

27+28
60' Drive

28+72
35' Drive

29+99
Int. Street
(W Broad Ave)

PVI 26+25.65
Elev 1559.09
L 35.00
G1 +0.3966%
G2 +0.0037%
K 89

PVI 28+24.55
Elev 1559.10
L 35.00
G1 +0.0037%
G2 +0.9768%
K 36

PVI 29+28.38
Elev 1560.11
L 20.00
G1 +0.9768%
G2 +1.5000%
K 38

PVI 29+69.79
Elev 1560.74
PVI 29+80.35
Elev 1561.26
PVI 29+98.74
Elev 1561.54

+0.3966%
+0.0037%
+0.9768%
+1.5000%
+5.0000%
+1.5000%

1558.20 1558.28 1558.36 1558.44 1558.52 1558.59 1558.67 1558.75 1558.83 1558.91 1558.99 1559.06 1559.09 1559.09 1559.09 1559.10 1559.10 1559.10 1559.10 1559.10 1559.12 1559.25 1559.45 1559.64 1559.84 1560.03 1560.29 1560.59 1561.25 1561.52

24+00 25+00 26+00 27+00 28+00 29+00 30+00

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
TAYLOR J. BIASIUS
03/13/2026
SOUTH DAKOTA

BAI JOB # 24020-52

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 29 | 79 |

Plotting Date: 3/12/2026

FOR BIDDING PURPOSES ONLY

Clear and Grub Tree
30+49-18' R
30+86-18' R

Remove Fence for Reset
32+88-24' R to 33+43-74' R

Reset Fence
32+88-24' R to 33+43-74' R

Remove Sign for Reset
33+48-13' R

Reset Sign
33+48-13' R

SEC 28 - T107N - R48W

SW1/4

Flandreau Santee Sioux Tribe

Block 1 in Railroad Addition to the City of Flandreau, South Dakota

U.S.A. in Trust for Flandreau Santee Sioux Tribe

SW1/4 of Section 28 - Township 107 North - Range 48 West of the 5th P.M., except R.R. WYE

BLOCK 1

S Kuffe St

W Broad Ave.

34+78

34+00

N82°33'17"E

END P TAPR(59)
Station 33+62

CITY LIMITS

Section Line

S Veterans St

PI 32+66.35
R 30.00'

S00°53'31"E

31+00

33+00

30+00

PI 31+64.64
R 30.00'

32+00

PI 33+40.97
R 10.00'

1558'

PI 32+22.07
R 63.46'

33+40-90'

E1/2 SE1/4

1/4 Line

W Broad Ave.

30+23-63'

31+43-28'

31+34.16-18.44'

31+93-47'

32+78-14'

32+88.00-24.10'

33+13-49'

CITY LIMITS

LOT 1 OF OUTLOT A

HW Enterprises, LLC.

Lot 1 of Outlot A in the E1/2 SE1/4 of Section 29 - Township 107 North - Range 48 West of the 5th P.M.

Parcel A7

Flandreau Development Corp.

Outlot A in the E1/2 SE1/4 of Section 29 - Township 107 North - Range 48 West of the 5th P.M., except Flandreau Industrial Park Second Addition, Railroad R.O.W., and Lot 1 of Outlot A

Parcel 5
0.03 ac, Permanent Easement
(1361 sq ft), more or less

OUTLOT A

Amdahl Family Revocable Trust

All that portion of the NE1/4 SE1/4, lying and being South of the right of way of the Chicago, Milwaukee and St. Paul Railway of Section 29 - Township 107 North - Range 48 West of the 5th P.M., except Amdahl's Tract

Parcel A8

FLANDREAU

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WAYLON
BIASIUS
03/19/2026
SOUTH DAKOTA

SEC 29 - T107N - R48W

Parcel A7
30+23 to 31+93 R
Temporary Easement containing
5469 sq ft, more or less

Parcel 5
31+43 to 33+13 R
Temporary Easement containing
3498 sq ft, more or less

Parcel A8
32+78 to 33+40 R
Temporary Easement containing
3513 sq ft, more or less

BAI JOB # 24020-52

BANNER

FOR BIDDING PURPOSES ONLY

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 30 | 79 |

Plotting Date: 3/12/2026

29+99
Int. Street
(W Broad Ave)

31+37
35' Drive

33+76
Int. Street
(S Veterans St)

PVI 30+18.02
Elev 1561.25
PVI 30+28.37
Elev 1560.84

PVI 30+58.42
Elev 1560.39
L 30.00
G1 -1.5000%
G2 +4.0457%
K 5

PVI 30+99.58
Elev 1562.05
L 30.00
G1 +4.0457%
G2 -0.0116%
K 7

PVI 31+72.79
Elev 1562.04
L 30.00
G1 -0.0116%
G2 -0.9205%
K 33

PVI 32+62.18
Elev 1561.22
L 30.00
G1 -0.9205%
G2 +1.5000%
K 12

PVI 33+54.61
Elev 1562.61
PVI 33+62.05
Elev 1563.01

-1.5000% -3.0000% -1.5000% +4.0457% -0.0116% -0.9205% +1.5000% +5.3728%

1561.52 1561.17 1560.66 1560.62 1561.26 1561.91 1562.05 1562.05 1562.04 1561.97 1561.79 1561.61 1561.42 1561.31 1561.49 1561.79 1562.09 1562.39 1562.90 1563.18 1562.67 1562.39 1562.10 1561.99

30+00 31+00 32+00 33+00 34+00 35+00 36+00

1605 1600 1595 1590 1585 1580 1575 1570 1565 1560 1555 1550 1545 1540 1535 1530 1525 1520 1515 1510

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
TAYLOR J.
BIASIUS
SOUTH DAKOTA
03/13/2026

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# PAVEMENT REMOVALS

FOR BIDDING PURPOSES ONLY

BAI JOB # 24020-52

BANNER ASSOCIATES

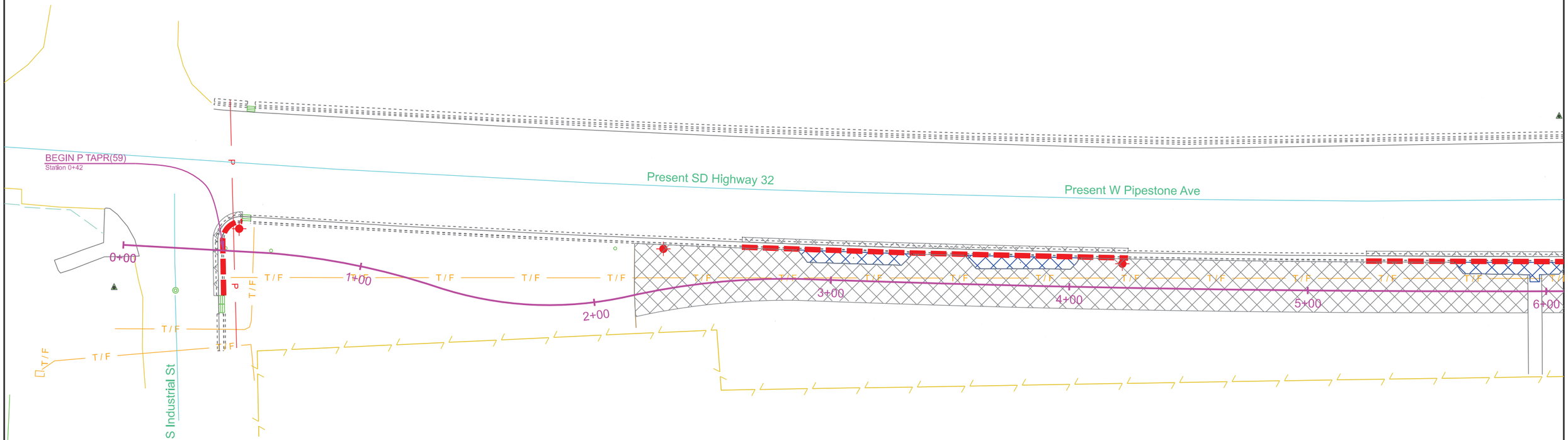
SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 31 | 79 |

Plotting Date: 3/13/2026

## LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CURB AND GUTTER




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALON
BLASIUS
SOUTH DAKOTA
03/13/2026

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# PAVEMENT REMOVALS



BAI JOB # 24020-52

BANNER ASSOCIATES

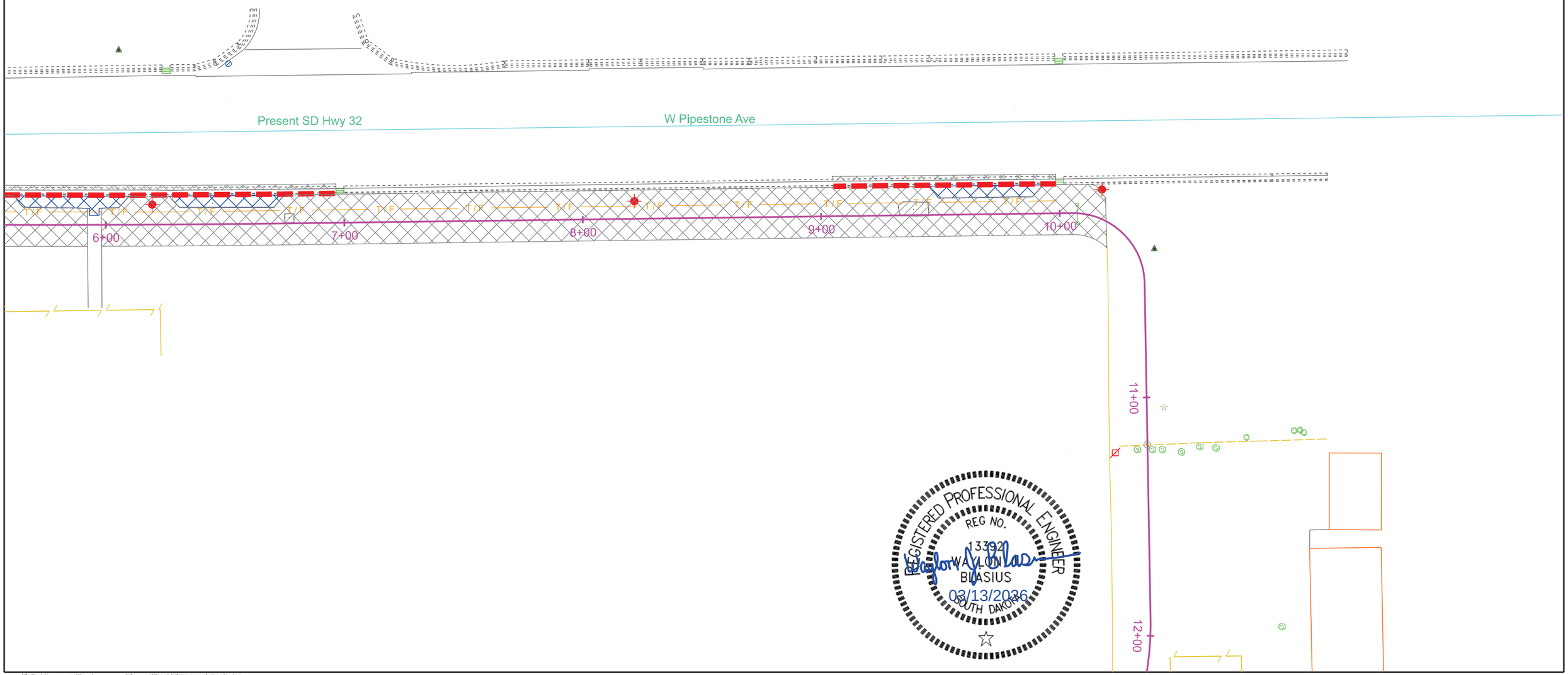
SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 32 | 79 |

Plotting Date: 3/13/2026

## LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CURB AND GUTTER




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
SOUTH DAKOTA
03/13/2026

# PAVEMENT REMOVALS

FOR BIDDING PURPOSES ONLY

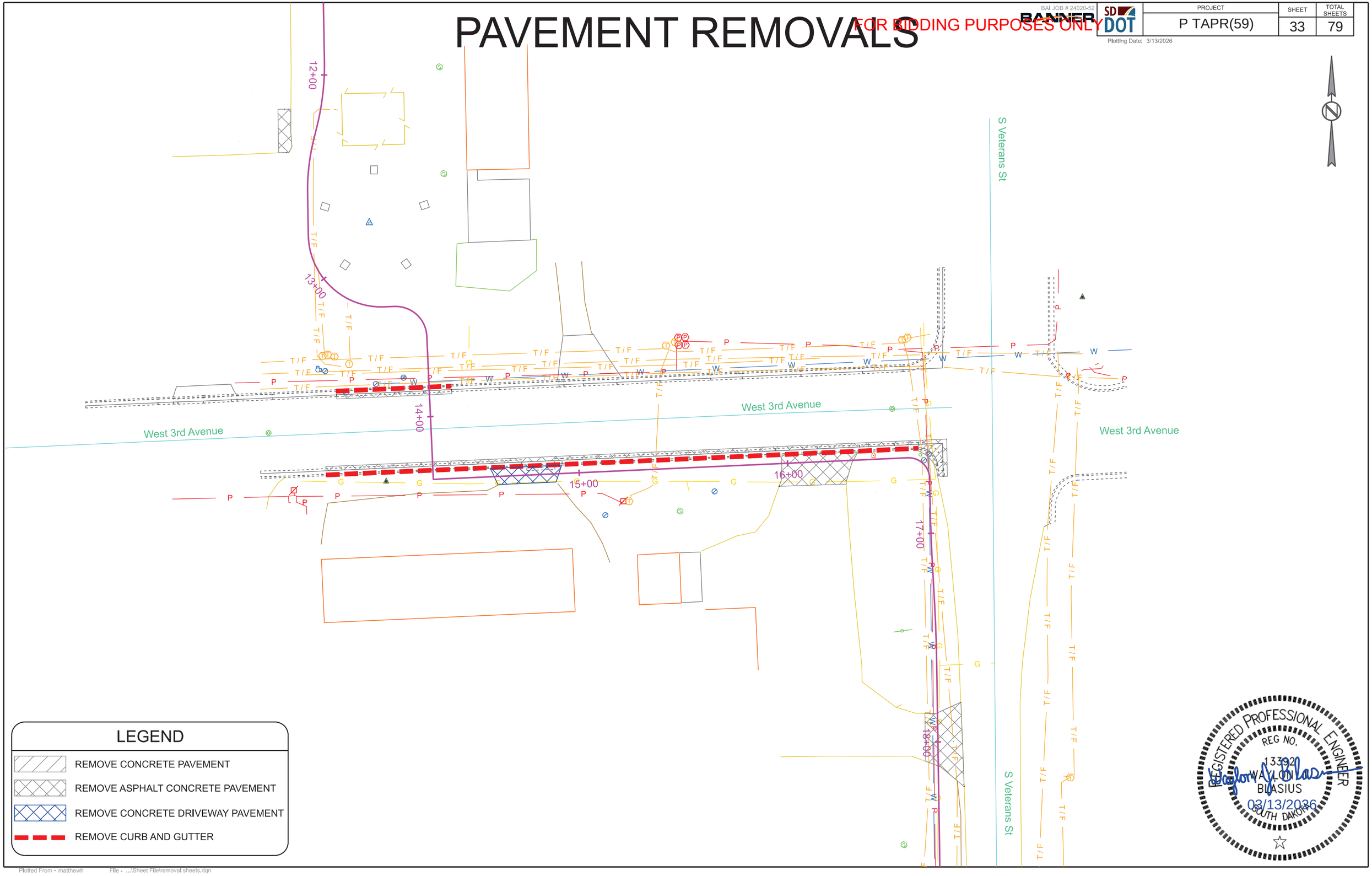
BAI JOB # 24020-52

BANNER ASSOCIATES

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 33 | 79 |

Plotting Date: 3/13/2026




## LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CURB AND GUTTER

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
WALTON BIASIUS
03/13/2026
SOUTH DAKOTA

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# PAVEMENT REMOVALS

BAI JOB # 24020-52

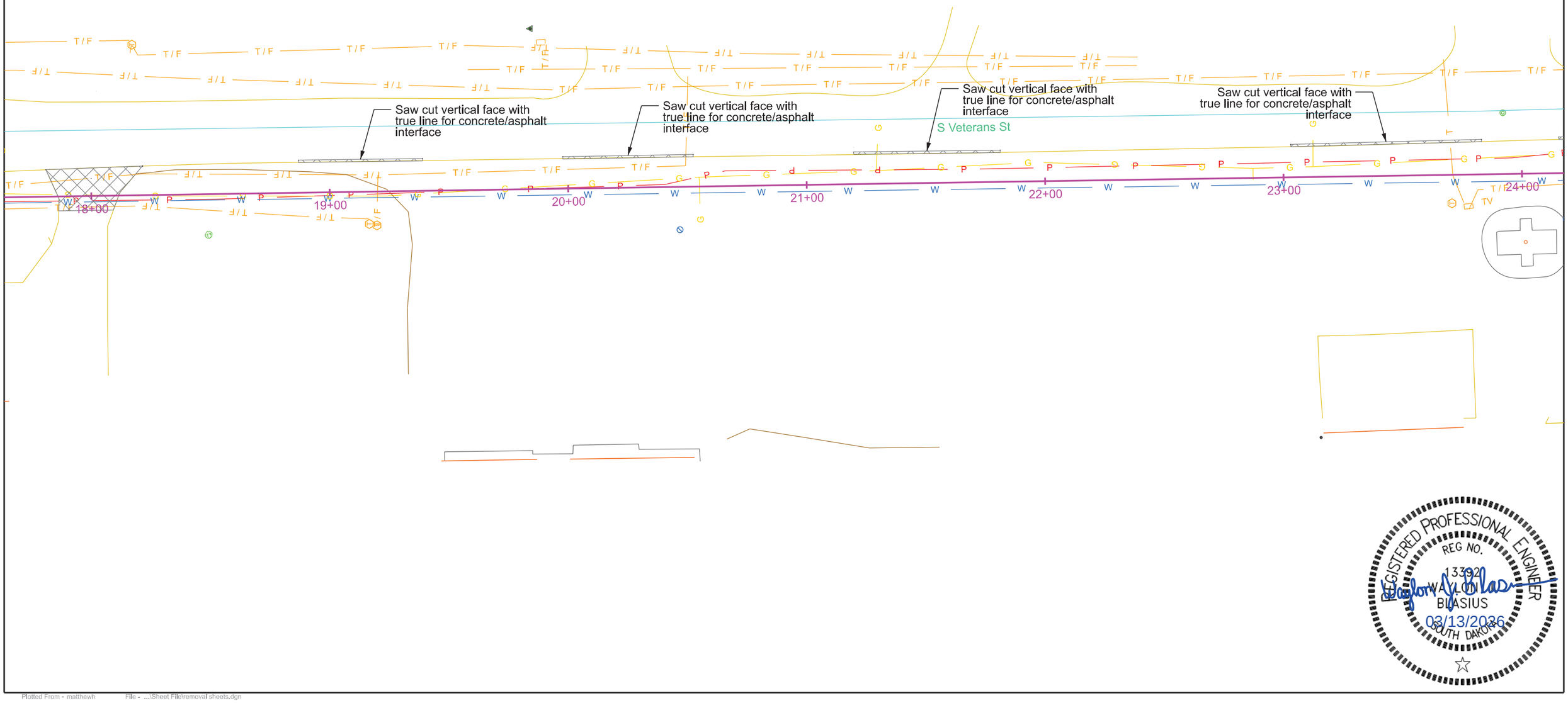
FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 34 | 79 |

Plotting Date: 3/13/2026

## LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CURB AND GUTTER




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
SOUTH DAKOTA
03/13/2026

# PAVEMENT REMOVALS

FOR BIDDING PURPOSES ONLY

BAI JOB # 24020-52

BANNER ASSOCIATES

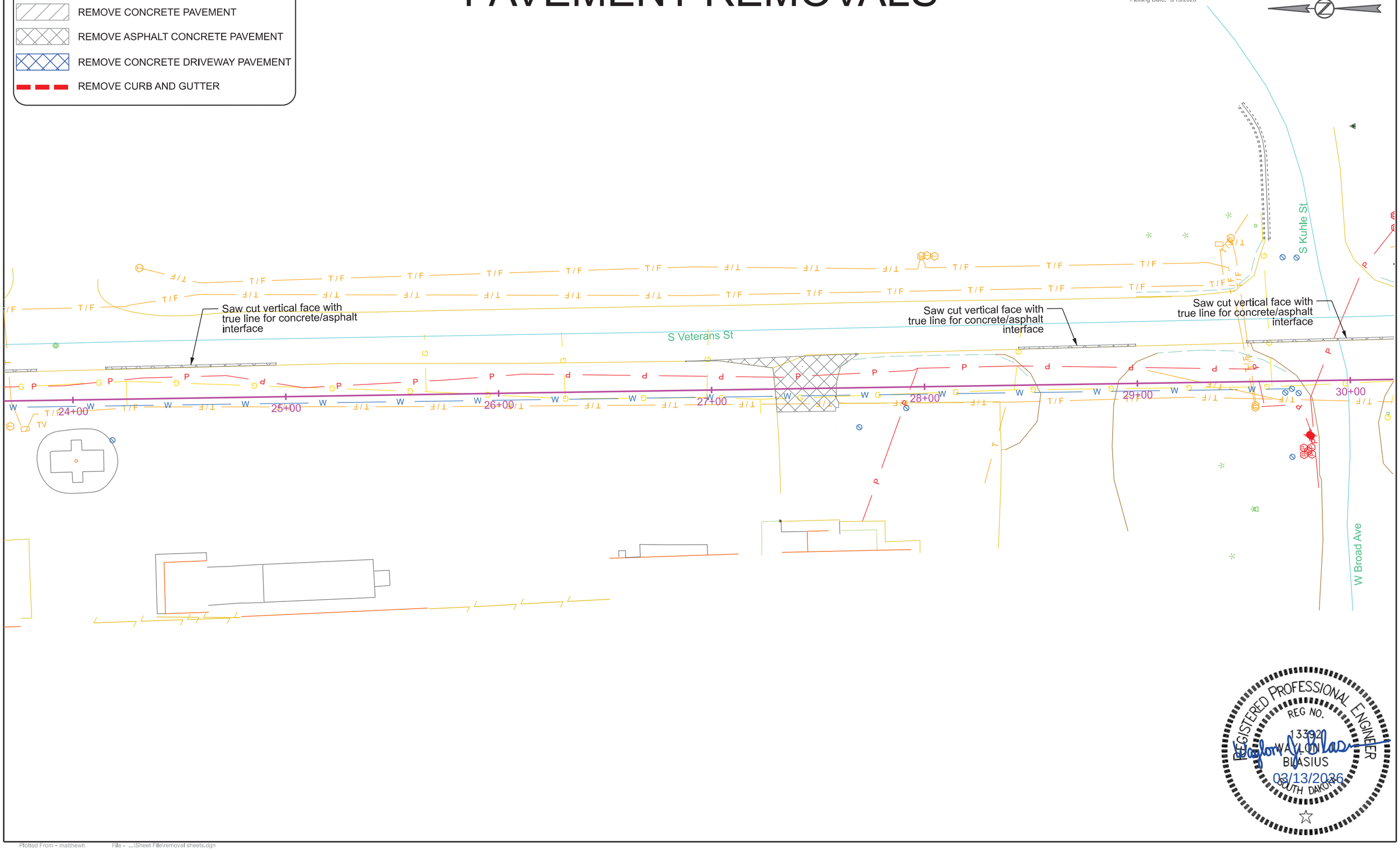
SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 35 | 79 |

Plotting Date: 3/13/2026

## LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CURB AND GUTTER




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
SOUTH DAKOTA
03/13/2026

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# PAVEMENT REMOVALS

FOR BIDDING PURPOSES ONLY

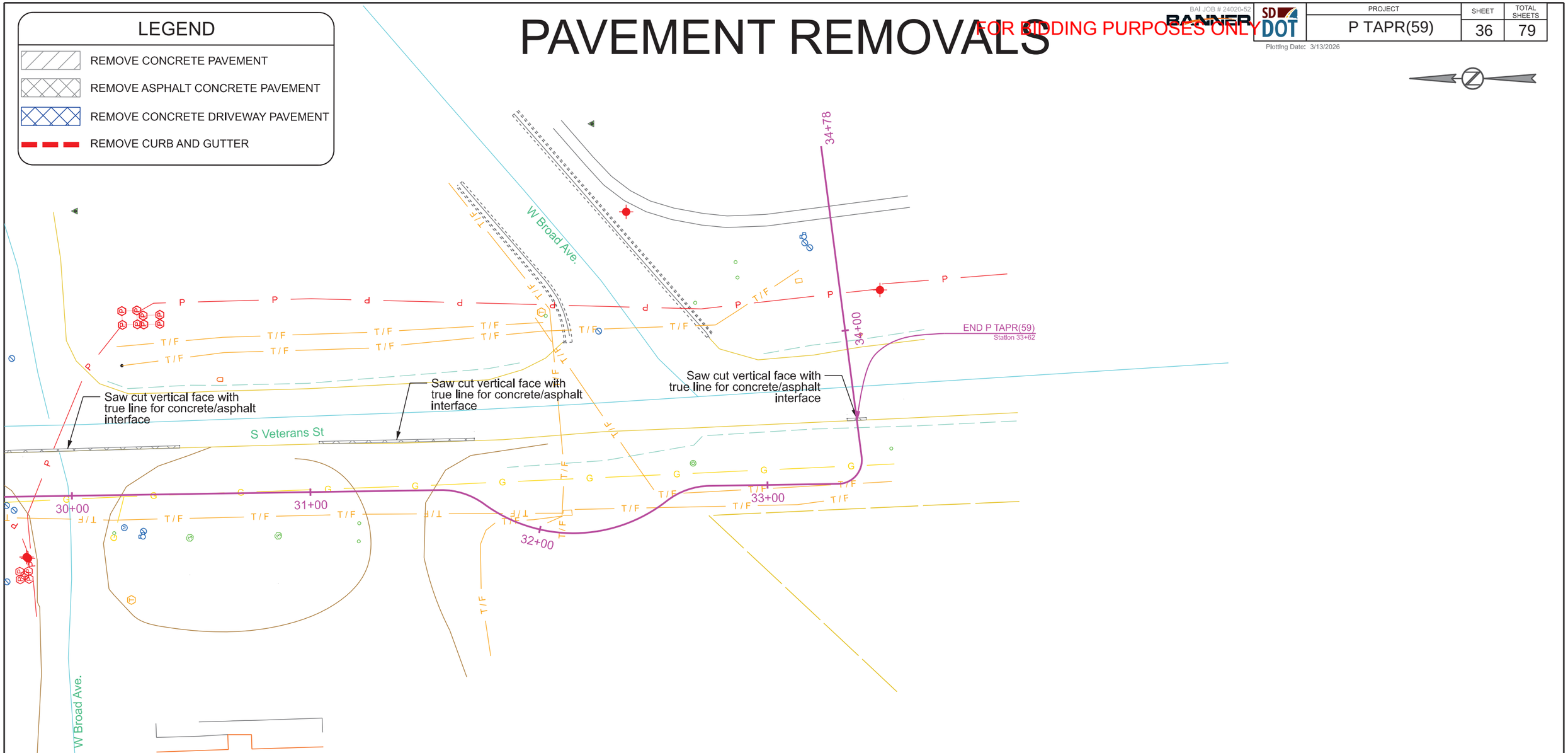
BAI JOB # 24020-52

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 36 | 79 |

Plotting Date: 3/13/2026

## LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CURB AND GUTTER




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
03/13/2026
SOUTH DAKOTA

# INDUSTRIAL PARK RD AND W PIPESTONE AVE

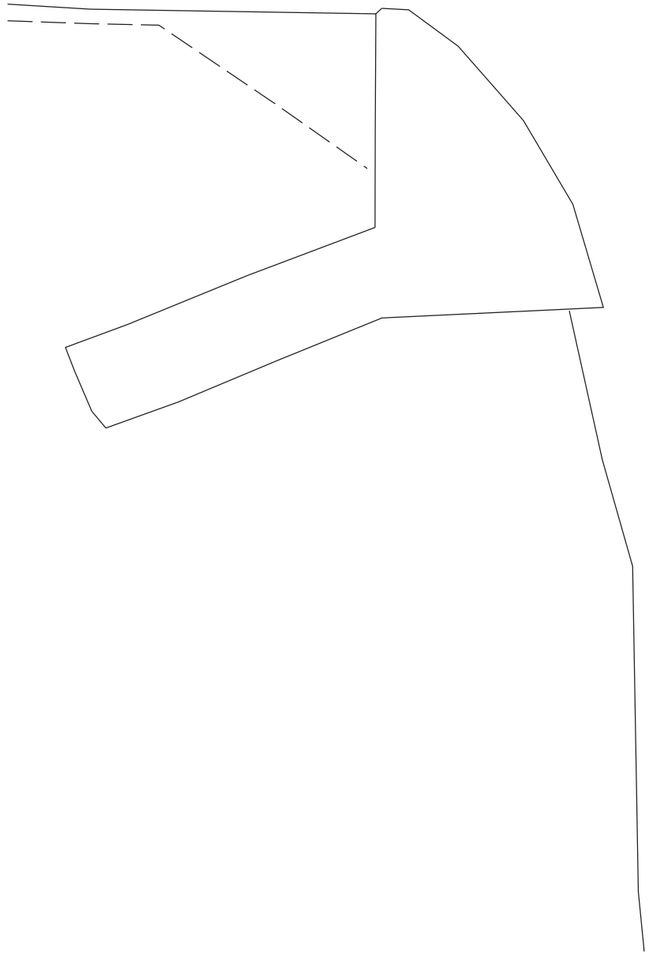


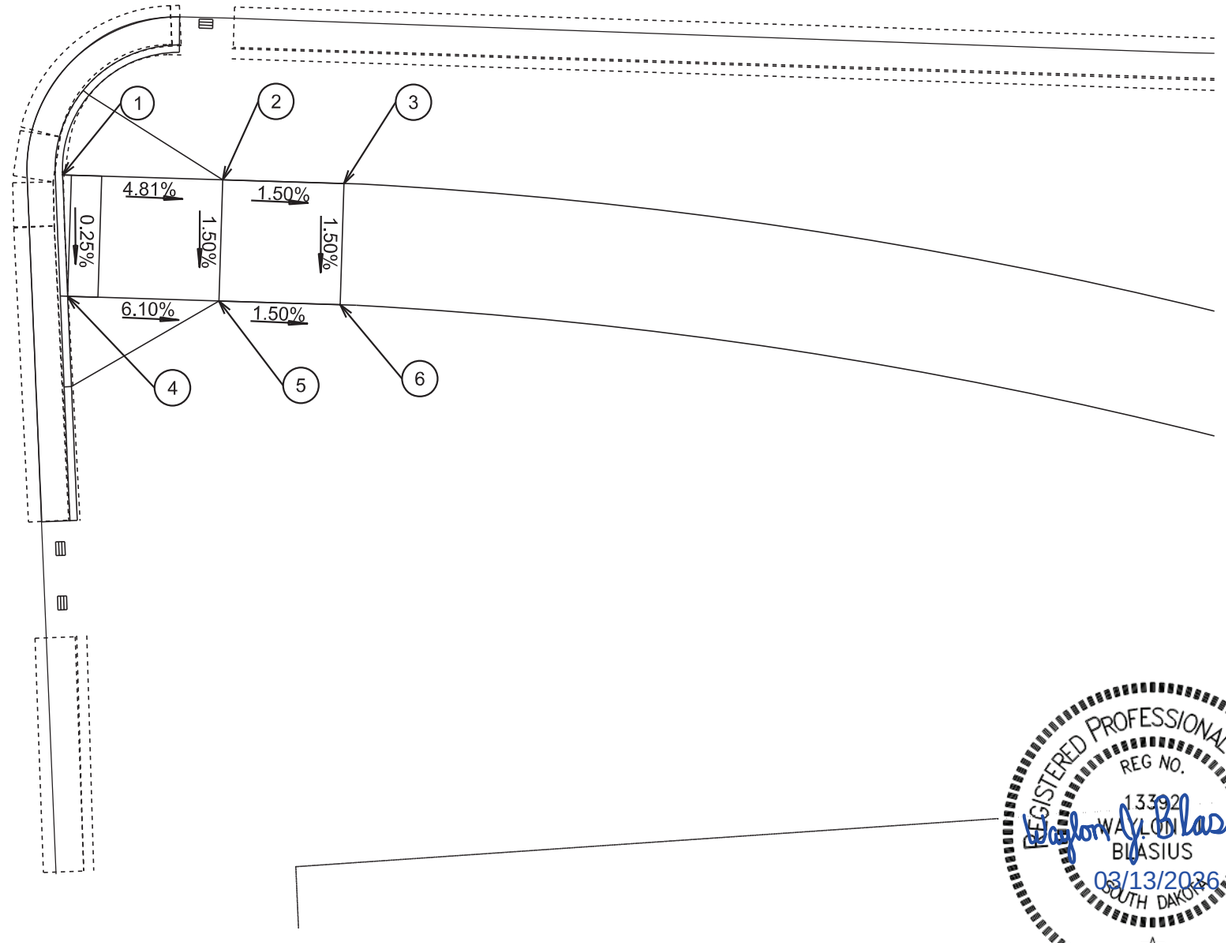
BAI JOB # 24020-52
BANNER ASSOCIATES
SD DOT
PROJECT: P TAPR(59)
SHEET: 37
TOTAL SHEETS: 79
Plotting Date: 3/12/2026

| | |
|---|---|
| 1 | 0+41.72-4.00' L<br>1540.48 |
| 2 | 0+52.30-4.00' L<br>1540.99 |
| 3 | 0+60.30-4.00' L<br>1541.11 |
| 4 | 0+42.30-4.00' R<br>1540.50 |
| 5 | 0+52.30-4.00' R<br>1541.11 |
| 6 | 0+60.30-4.00' R<br>1541.23 |

W PIPESTONE AVENUE

INDUSTRIAL PARK ROAD



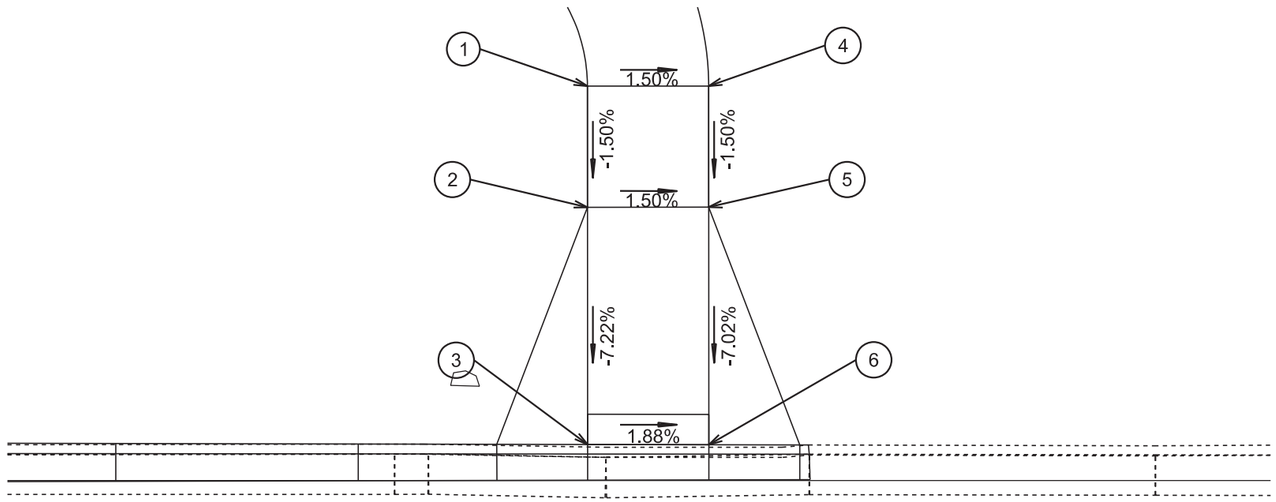


# W 3RD AVE CROSSING

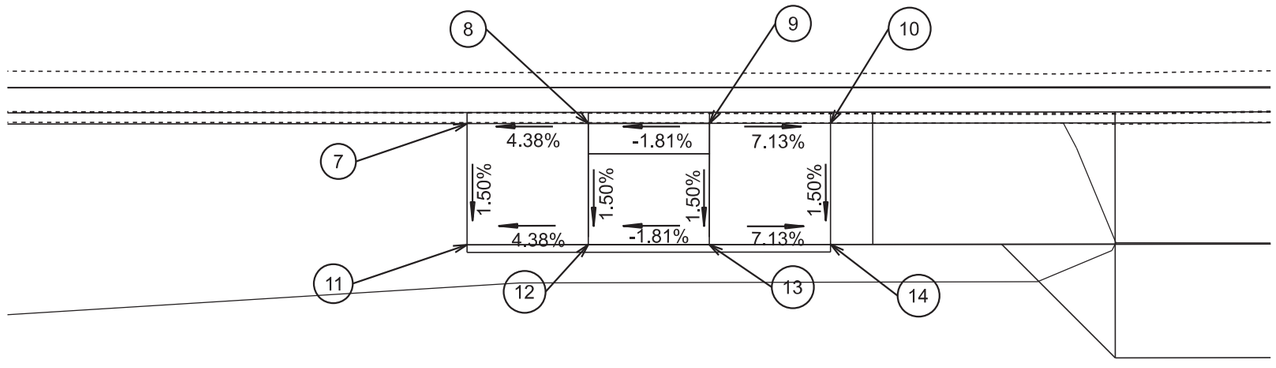


BAI JOB # 24020-52
BANNER
SD DOT
PROJECT: P TAPR(59)
SHEET: 38
TOTAL SHEETS: 79
Plotting Date: 3/12/2026

| | | | | | |
|---|---|---|---|---|---|
| 1 | 13+61.48-4.00' R 1550.47 | 7 | 14+26.06-12.00' R 1549.54 | 13 | 14+34.04-4.00' R 1549.45 |
| 2 | 13+69.48-4.00' R 1550.35 | 8 | 14+26.06-4.00' R 1549.19 | 14 | 14+42.04-4.00' R 1550.02 |
| 3 | 13+85.13-4.00' R 1549.22 | 9 | 14+26.06-4.00' L 1549.33 | | |
| 4 | 13+61.48-4.00' L 1550.59 | 10 | 14+42.05-4.00' L 1549.90 | | |
| 5 | 13+69.48-4.00' R 1550.47 | 11 | 14+30.06-12.66' R 1549.66 | | |
| 6 | 13+85.15-4.00' L 1549.37 | 12 | 14+30.06-5.67' R 1549.31 | | |




## W 3RD AVENUE




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTON
BIASIUS
03/13/2026
SOUTH DAKOTA

BAI JOB # 24020-52

BANNER

FOR BIDDING PURPOSES ONLY

SD DOT

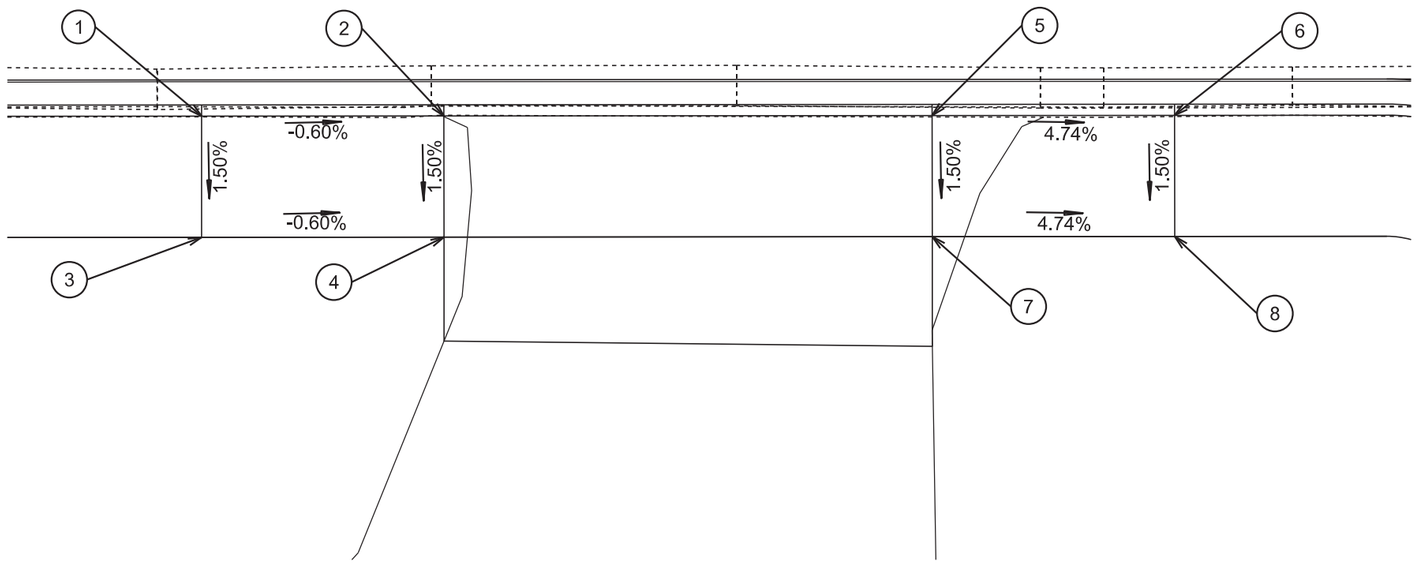
| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 39 | 79 |

Plotting Date: 3/12/2026

# FLANDREAU VETERINARY CLINIC W 3RD AVE ENTRANCE

| | | | |
|---|---|---|---|
| 1 | 15+79.43-4.00' L<br>1552.53 | 5 | 16+27.67-4.00' L<br>1553.09 |
| 2 | 15+95.43-4.00' L<br>1552.43 | 6 | 16+43.67-4.00' L<br>1553.85 |
| 3 | 15+79.43-4.00' R<br>1552.65 | 7 | 16+27.67-4.00' R<br>1553.21 |
| 4 | 15+95.43-4.00' R<br>1552.55 | 8 | 16+43.67-4.00' R<br>1553.97 |

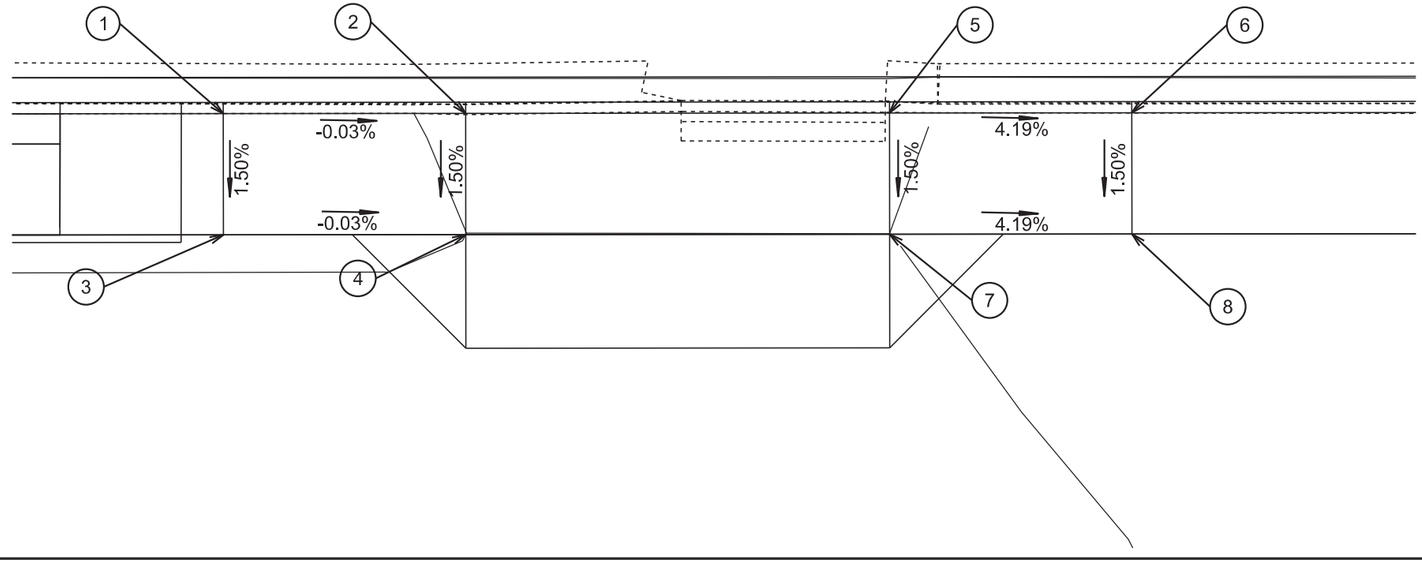
W 3RD AVENUE




# STORE 4 U STORAGE W 3RD AVE ENTRANCE

| | | | |
|---|---|---|---|
| 1 | 14+44.83-4.00' L<br>1550.98 | 5 | 14+88.81-4.00' L<br>1550.47 |
| 2 | 14+60.83-4.00' L<br>1549.97 | 6 | 15+04.81-4.00' L<br>1551.14 |
| 3 | 14+44.83-4.00' R<br>1550.10 | 7 | 14+88.81-4.00' R<br>1550.59 |
| 4 | 14+60.83-4.00' R<br>1550.09 | 8 | 15+04.81-4.00' R<br>1551.26 |

W 3RD AVENUE




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
SOUTH DAKOTA
03/13/2026

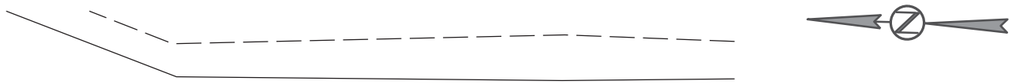
# S VETERANS ST AND BROAD AVE



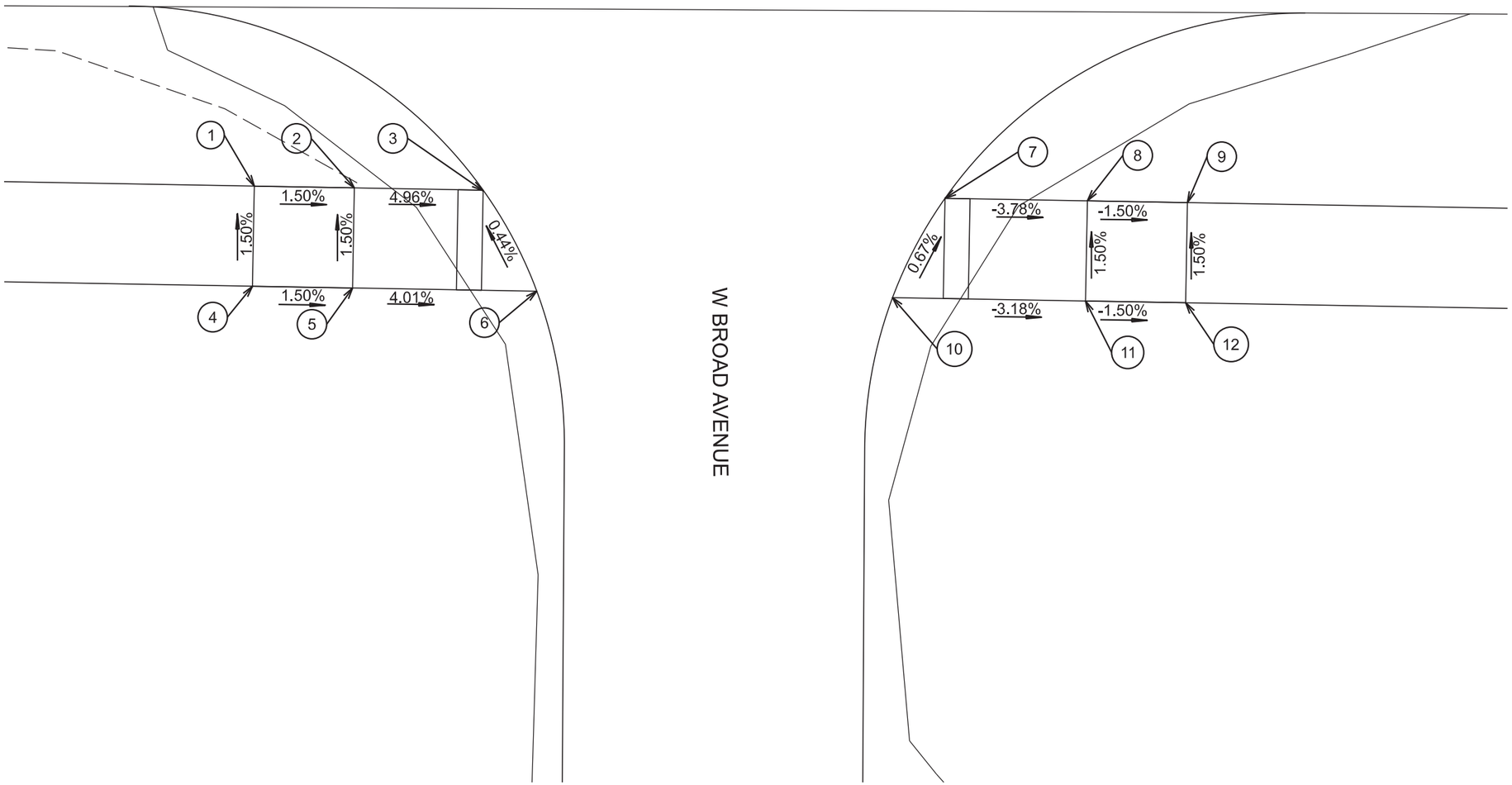
BAI JOB # 24020-52 | BANNER | SD DOT | PROJECT: P TAPR(59) | SHEET: 40 | TOTAL SHEETS: 79

Plotting Date: 3/12/2026

| | | | |
|---|---|---|---|
| 1 | 29+61.79-4.00' L<br>1560.68 | 7 | 30+16.99-4.00' L<br>1561.33 |
| 2 | 29+69.79-4.00' L<br>1560.80 | 8 | 30+28.37-4.00' L<br>1560.90 |
| 3 | 29+80.09-4.00' L<br>1561.31 | 9 | 30+36.37-4.00' L<br>1560.78 |
| 4 | 29+61.79-4.00' R<br>1560.56 | 10 | 30+12.94-4.00' R<br>1561.27 |
| 5 | 29+69.79-4.00' R<br>1560.68 | 11 | 30+28.37-4.00' R<br>1560.78 |
| 6 | 29+84.51-4.00' R<br>1561.27 | 12 | 30+36.37-4.00' R<br>1560.66 |



S VETERANS STREET




W BROAD AVENUE

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
TAYLOR W. BIASIUS
SOUTH DAKOTA
03/13/2026

# S VETERANS STREET CROSSING



BAI JOB # 24020-52

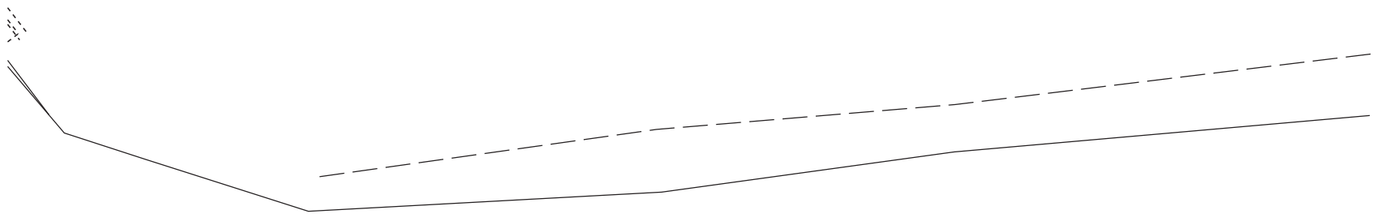
BANNER ASSOCIATES

SD DOT

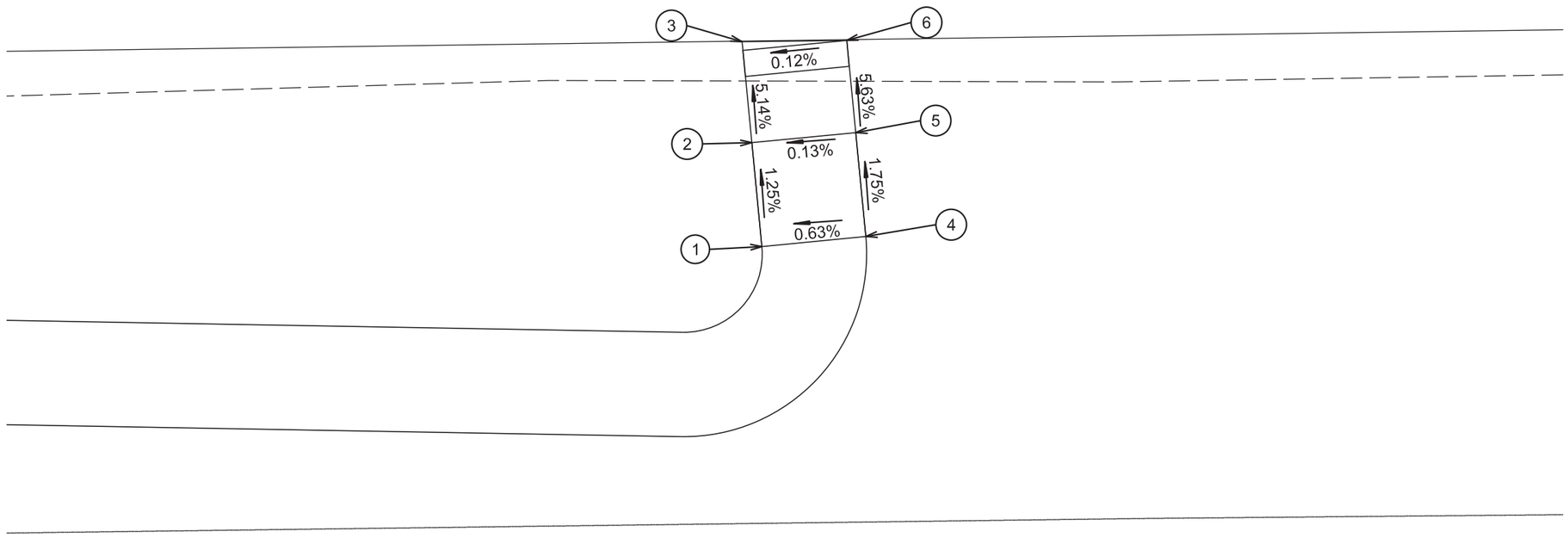
| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 41 | 79 |

Plotting Date: 3/12/2026

1 33+46.61-4.00' L
1562.51
2 33+54.61-4.00' L
1562.61
3 33+62.39-4.00' L
1563.01
4 33+46.61-4.00' R
1562.46
5 33+54.61-4.00' R
1562.60
6 33+61.71-4.00' R
1563.00



S VETERANS STREET




# TRAFFIC CONTROL - OVERVIEW

FOR BIDDING PURPOSES ONLY

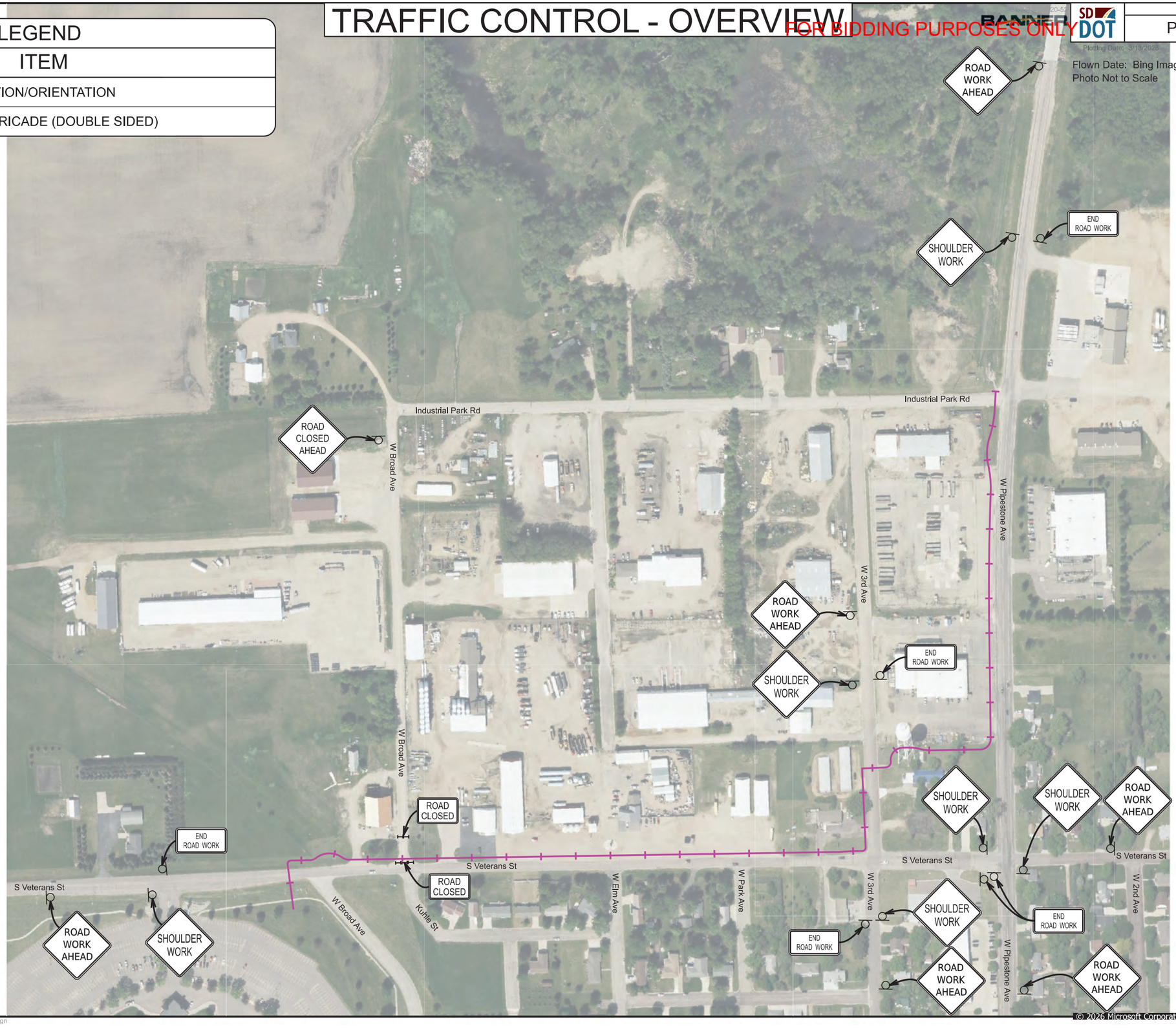
| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 42 | 79 |

Plotting Date: 3/13/2026

Flown Date: Bing Image
Photo Not to Scale

## LEGEND

| KEY | ITEM |
|---|---|
| FRONT OF SIGN / SIGN POST | SIGN LOCATION/ORIENTATION |
| | TYPE 3 BARRICADE (DOUBLE SIDED) |




REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
WALTON BIASIUS
SOUTH DAKOTA
03/13/2026

BAI JOB # 24020-52

BANNER

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 43 | 79 |

Plotting Date: 3/12/2026

# EROSION CONTROL

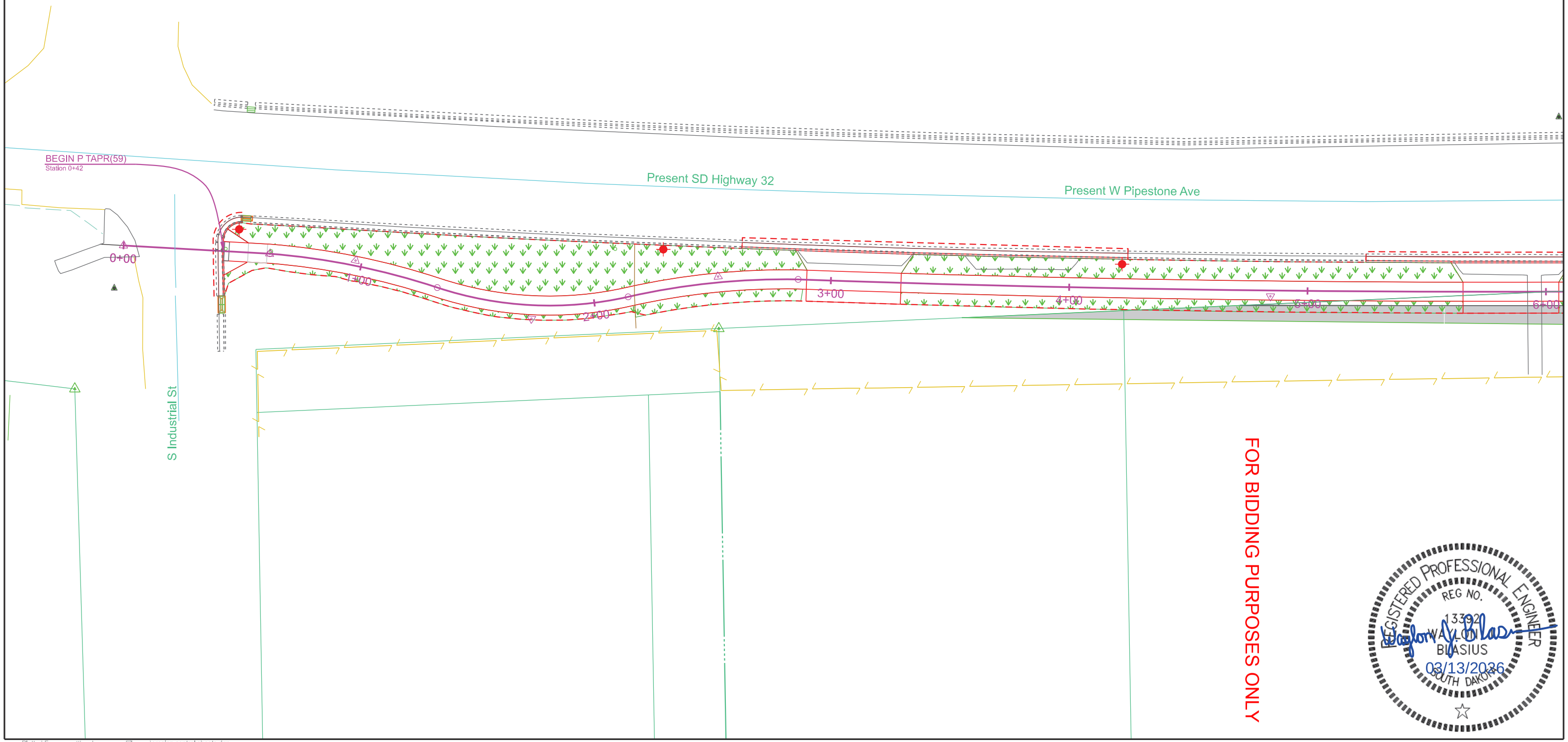
LEGEND

TYPE D SEED MIX

LOW FLOW SILT FENCE

Install Sediment Control at Type S Drop Inlets at the following locations:
0+42 - 22' R 9 Ft

Install Sediment Control at Inlets with Frames and Grates at the following locations:
0+51 - 14' L




FOR BIDDING PURPOSES ONLY

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
TAYLOR W. BIASIUS
03/13/2026
SOUTH DAKOTA

Plotted From - matthewh File - ...\erosion control sheets.dgn

# EROSION CONTROL

FOR BIDDING PURPOSES ONLY

BAI JOB # 24020-52

BANNER ASSOCIATES

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 44 | 79 |

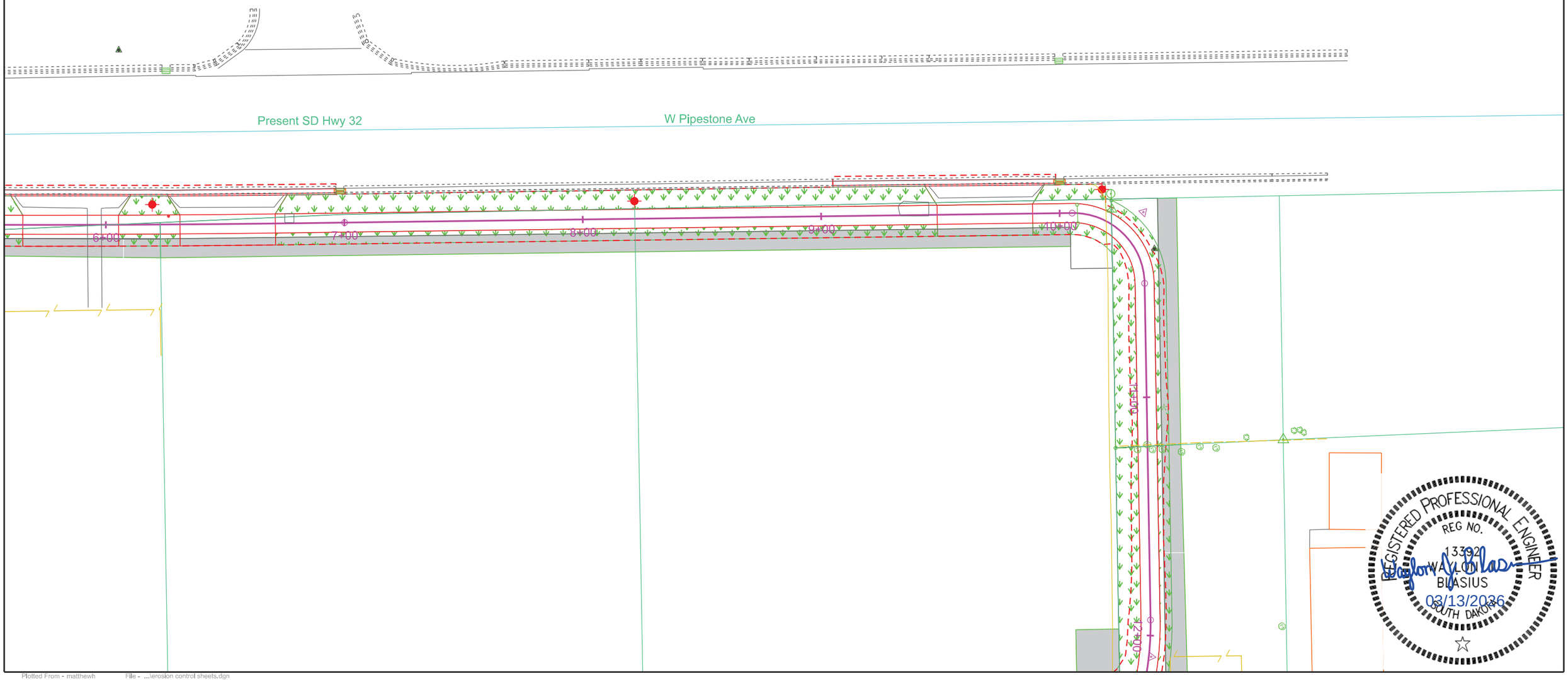
Plotting Date: 3/12/2026

## LEGEND

TYPE D SEED MIX

LOW FLOW SILT FENCE

Install Sediment Control at Inlets with Frames and Grates at the following locations:
6+98 - 14' L
10+00 - 14' L




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
SOUTH DAKOTA
03/13/2026

# EROSION CONTROL

Install Low Flow Silt Fence at the following locations:
12+91 R to 13+77 R  Perimeter control  104 Ft

## LEGEND

- TYPE D SEED MIX
- LOW FLOW SILT FENCE

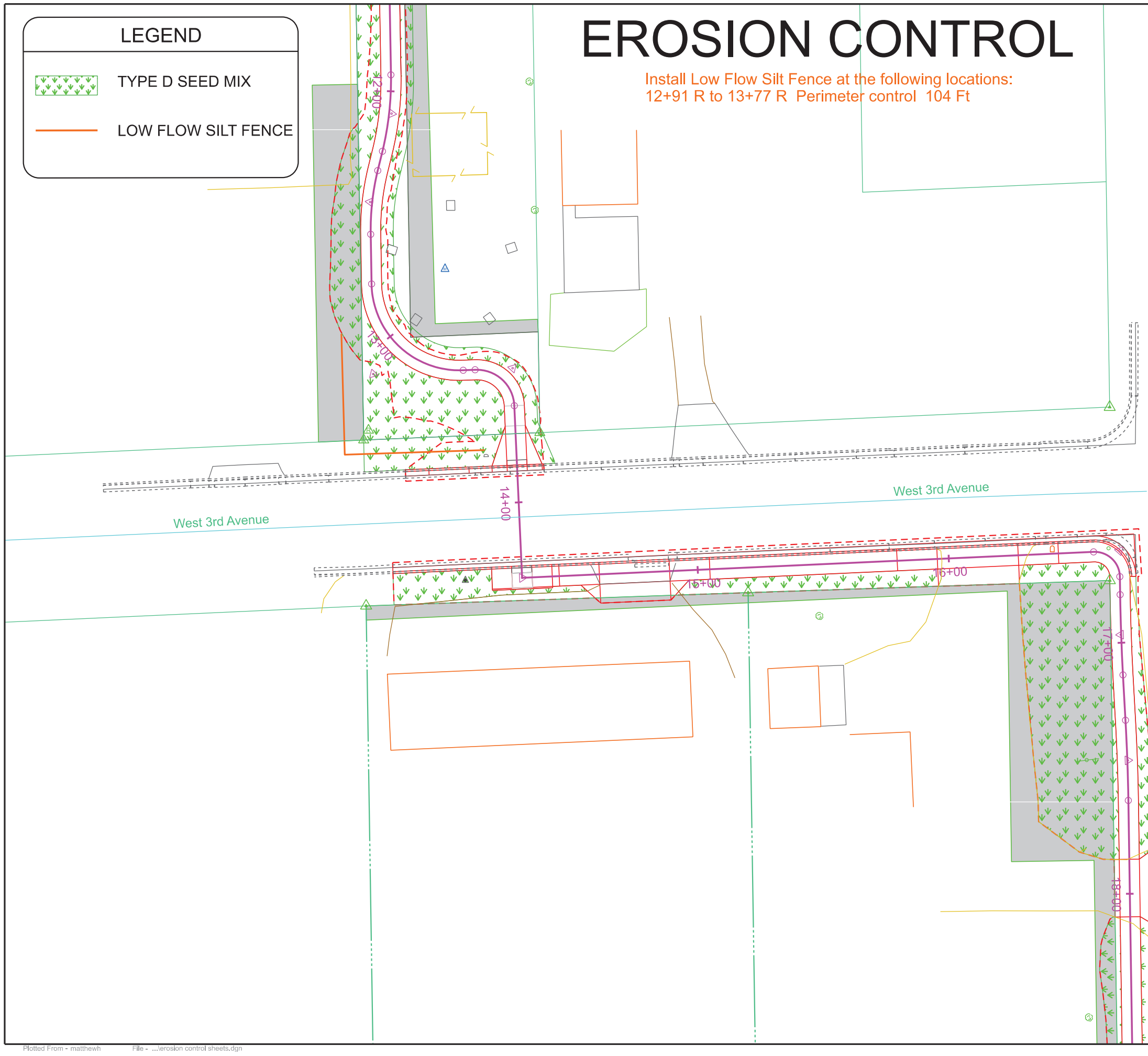
BAI JOB # 24020-52

BANNER

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 45 | 79 |

Plotting Date: 3/12/2026





FOR BIDDING PURPOSES ONLY

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
TAYLOR J.
BIASIUS
03/13/2026
SOUTH DAKOTA

Plotted From - matthewh  File - ...\erosion control sheets.dgn

# EROSION CONTROL



BAI JOB # 24020-52

BANNER

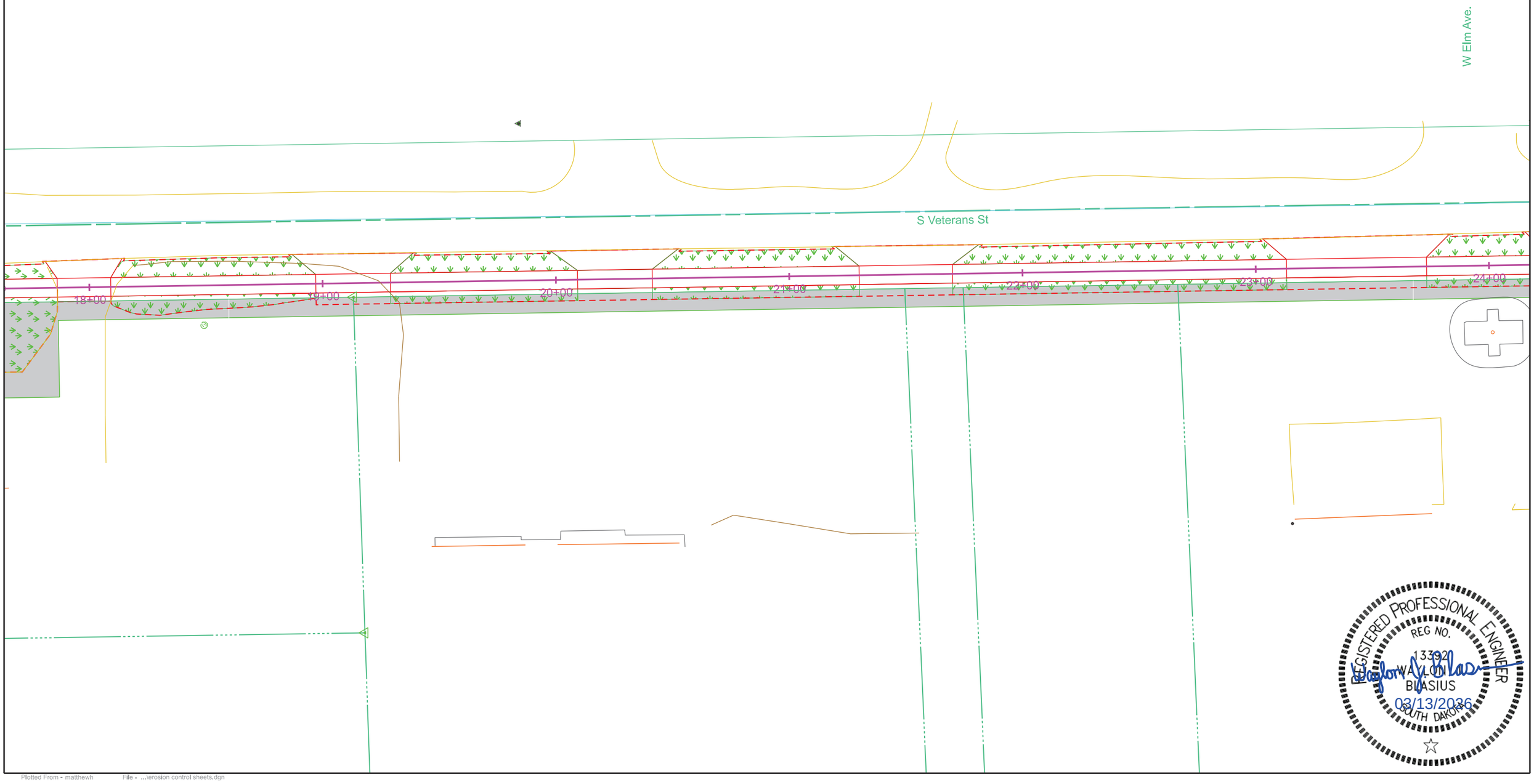
SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 46 | 79 |

Plotting Date: 3/12/2026

## LEGEND

- TYPE D SEED MIX
- LOW FLOW SILT FENCE




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
SOUTH DAKOTA
03/13/2026

# EROSION CONTROL

BAI JOB # 24020-52

FOR BIDDING PURPOSES ONLY

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 47 | 79 |

Plotting Date: 3/12/2026

## LEGEND

- TYPE D SEED MIX
- LOW FLOW SILT FENCE

Install Low Flow Silt Fence at the following locations:
28+89 R to 29+76 R  Perimeter control  94 Ft

S Veterans St

S Kuhle St

W Broad Ave

24+00 25+00 26+00 27+00 28+00 29+00 30+00

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALTER L.
BIASIUS
SOUTH DAKOTA
03/13/2026

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# EROSION CONTROL

BAI JOB # 24020-52

BANNER | SD DOT

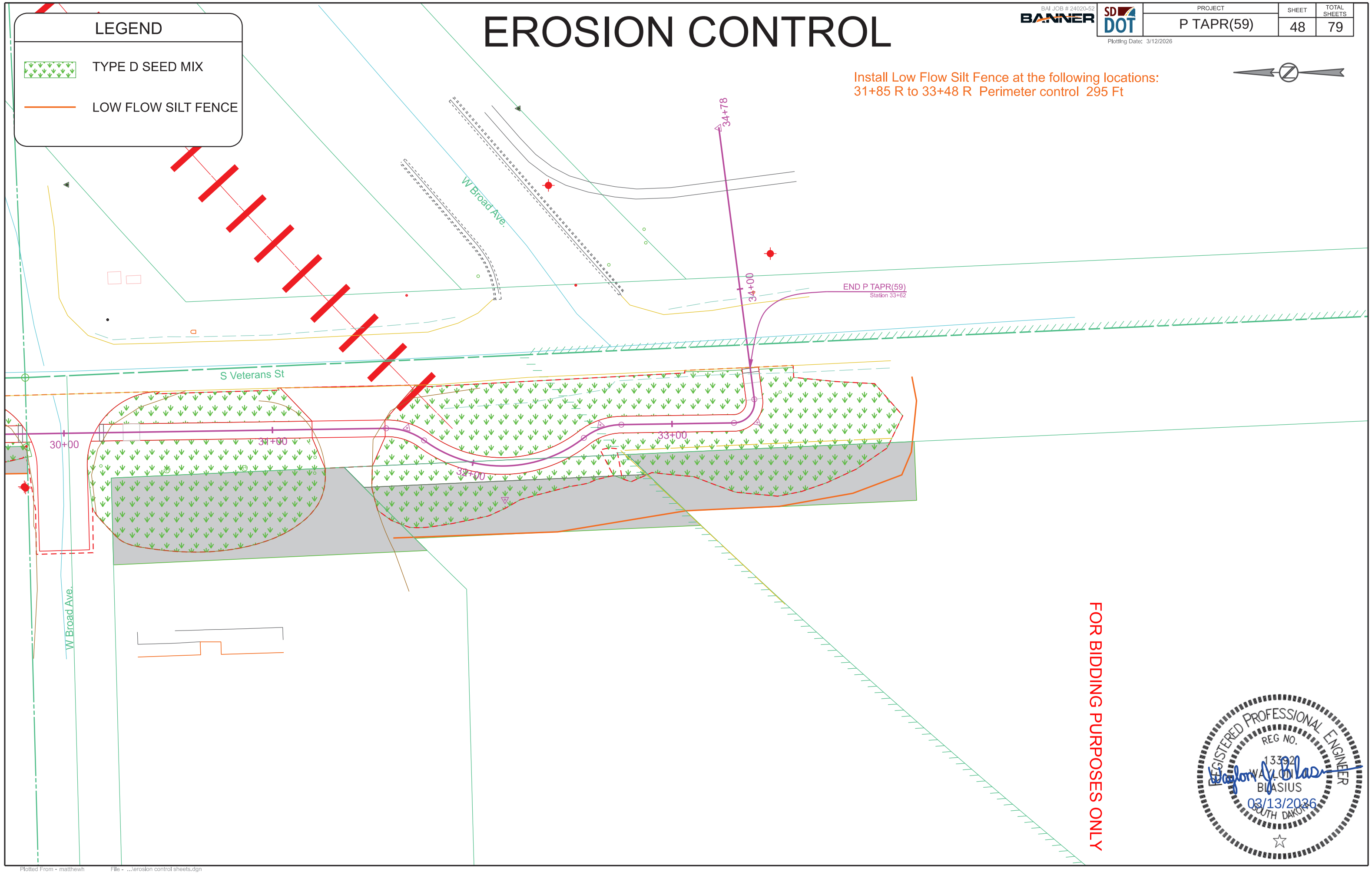
| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 48 | 79 |

Plotting Date: 3/12/2026

## LEGEND

- TYPE D SEED MIX
- LOW FLOW SILT FENCE

Install Low Flow Silt Fence at the following locations:
31+85 R to 33+48 R  Perimeter control  295 Ft

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REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
SOUTH DAKOTA
03/13/2026

Plotted From - matthewh  File - ...\erosion control sheets.dgn

# LEGEND

## MARKINGS

24WC — COLD APPLIED PLASTIC PAVEMENT MARKING, 24" WHITE

# W 3RD AVE CROSSING

FOR BIDDING PURPOSES ONLY

BAI JOB # 24020-52

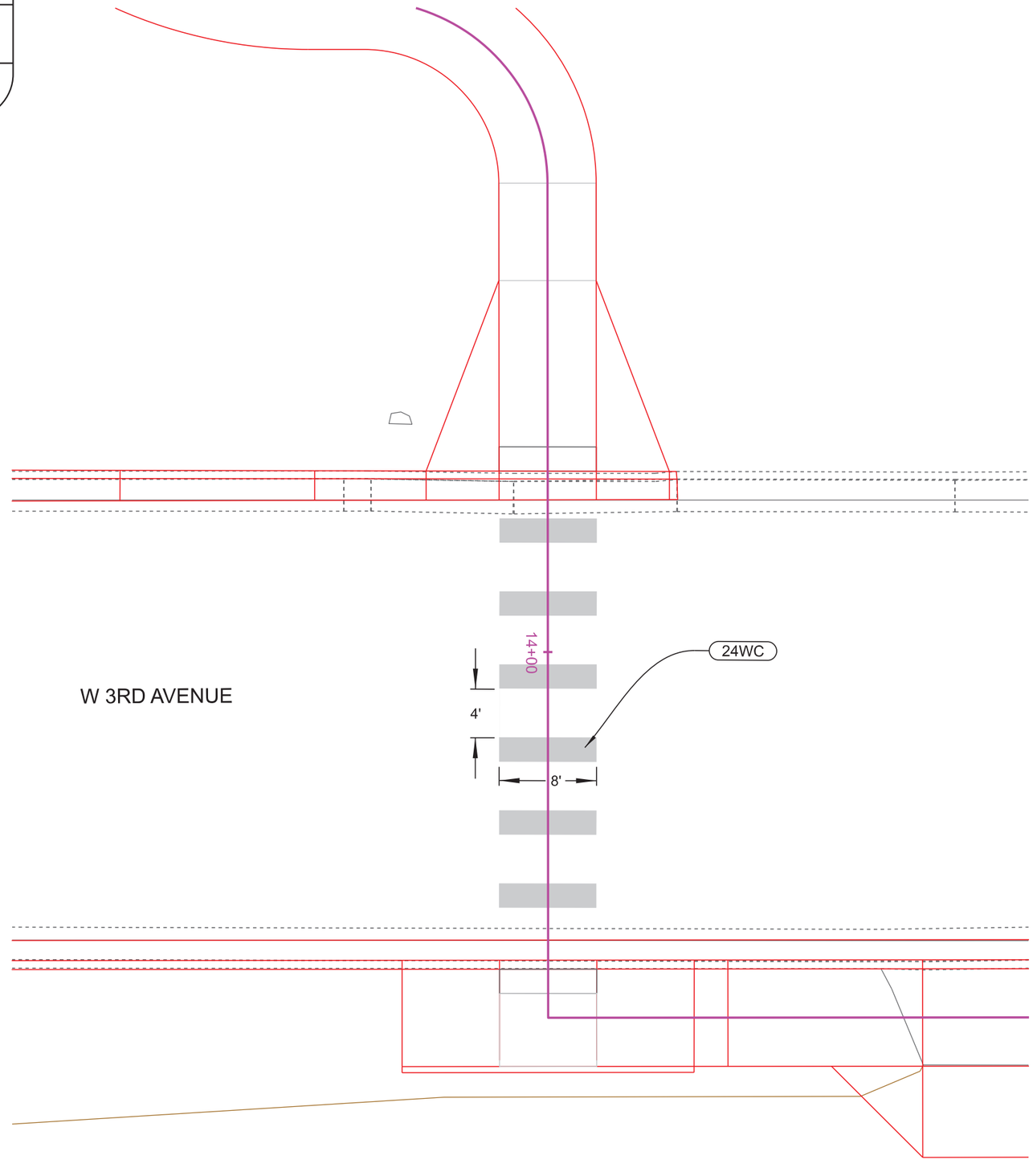
BANNER ASSOCIATES

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 49 | 79 |

Plotting Date: 3/19/2026

Revised 3/19/2026 MTH




REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
03/19/2026
SOUTH DAKOTA

Plotted From - matthewh File - ...\pavement markings.dgn

# S VETERANS ST AND W BROAD AVE



BAI JOB # 24020-52

BANNER ASSOCIATES

SD DOT

| PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|
| P TAPR(59) | 50 | 79 |

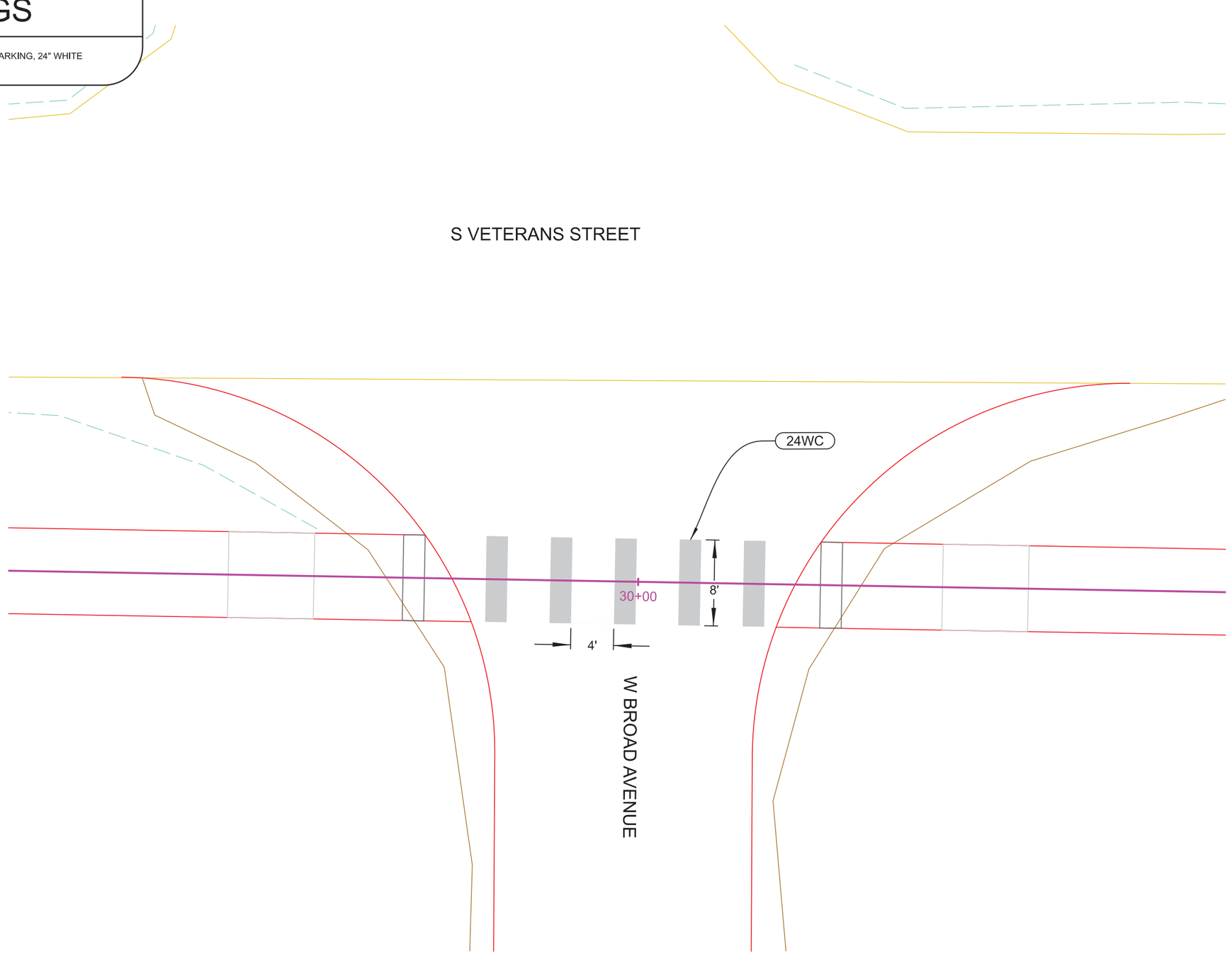
Plotting Date: 3/19/2026

Revised 3/19/2026 MTH

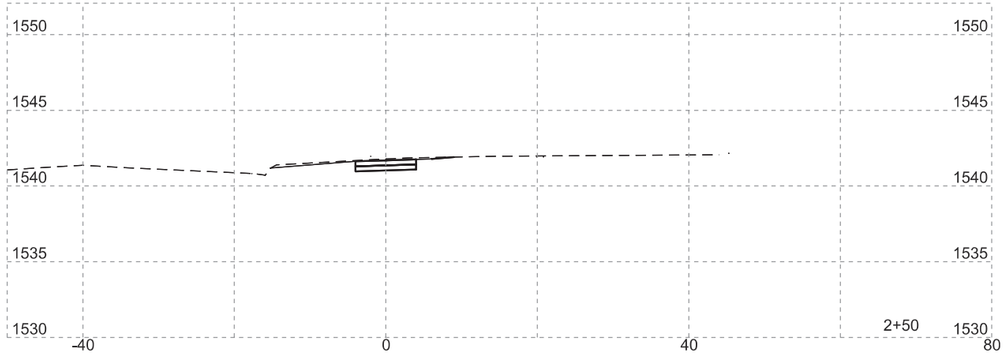
## LEGEND

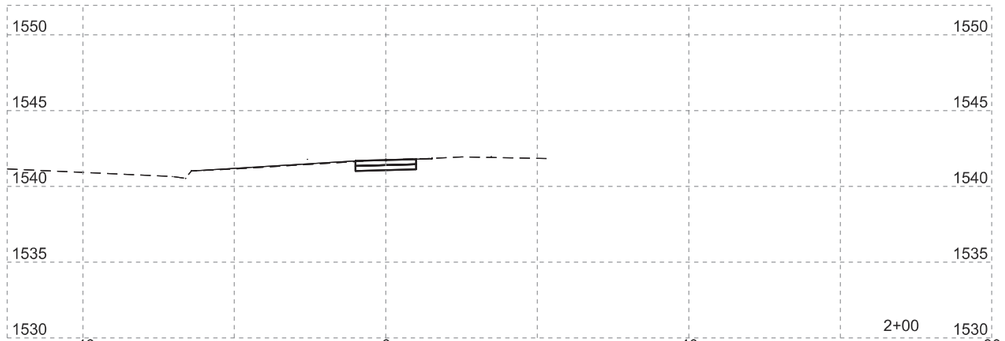
### MARKINGS

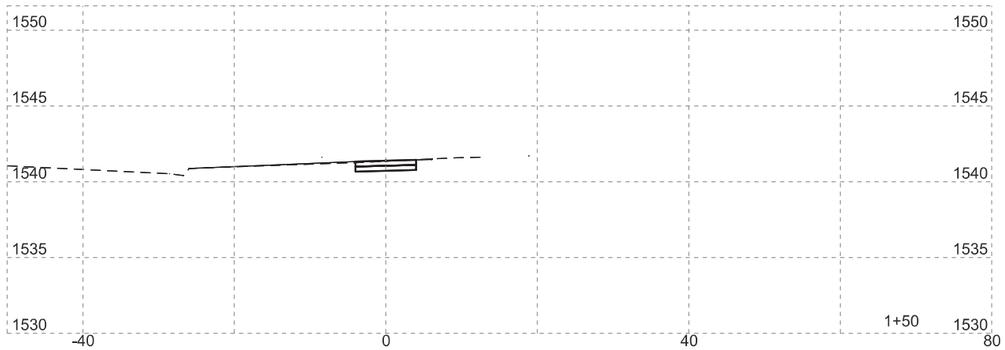
24WC — COLD APPLIED PLASTIC PAVEMENT MARKING, 24" WHITE

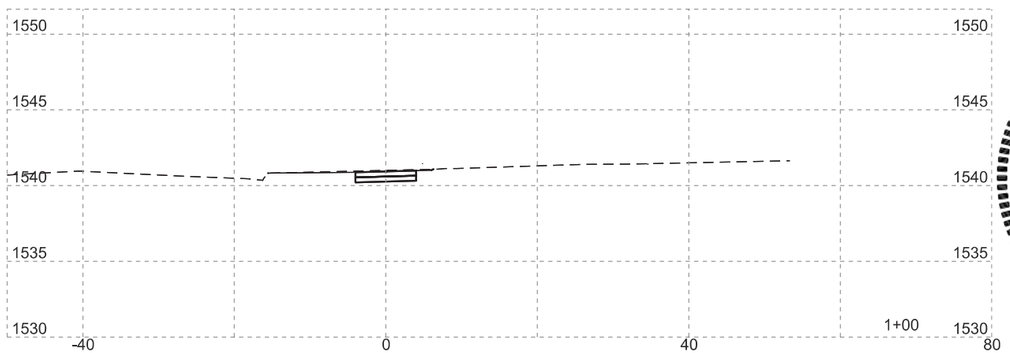


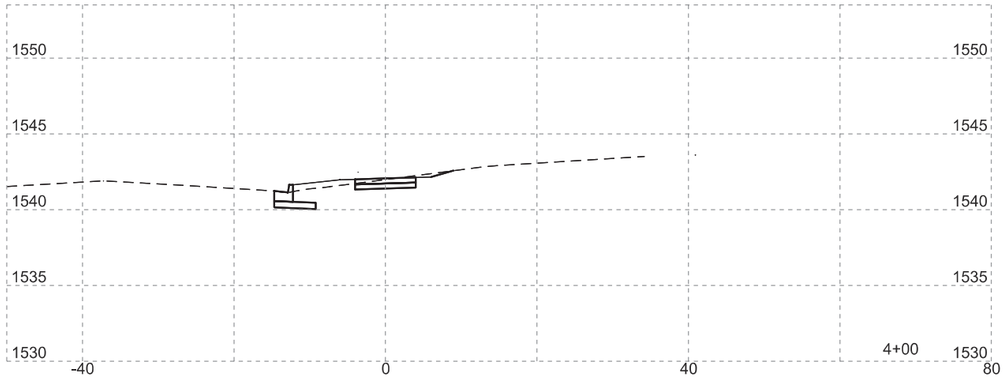

REGISTERED PROFESSIONAL ENGINEER
REG NO.
13392
WALDO
BIASIUS
SOUTH DAKOTA
03/19/2026

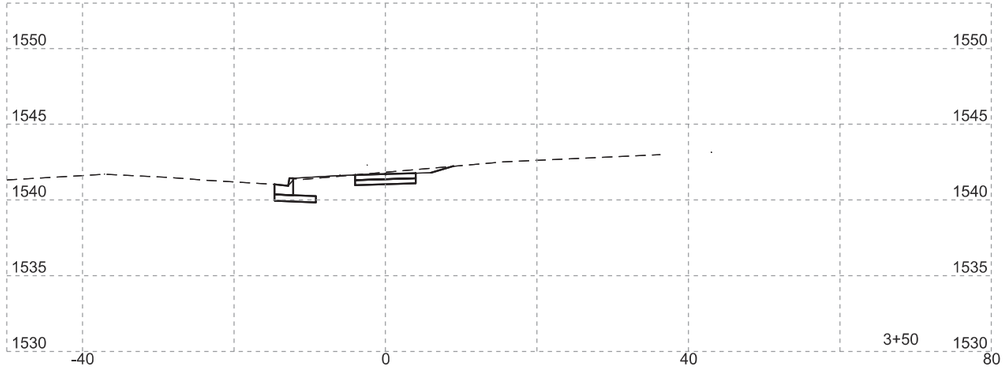


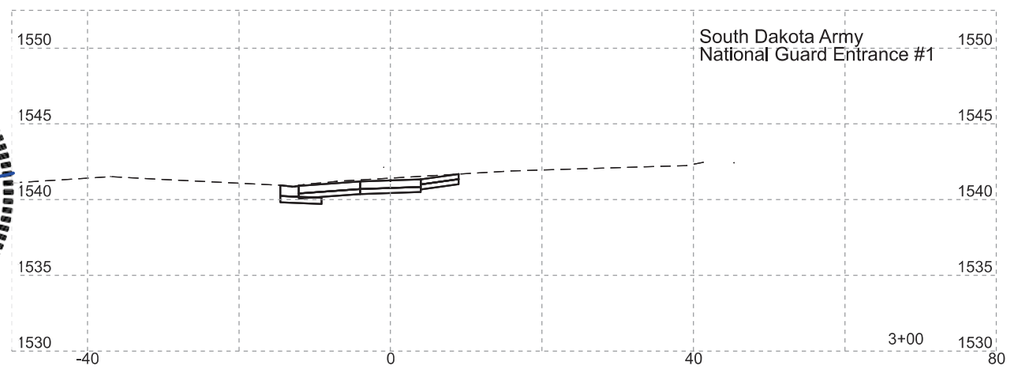



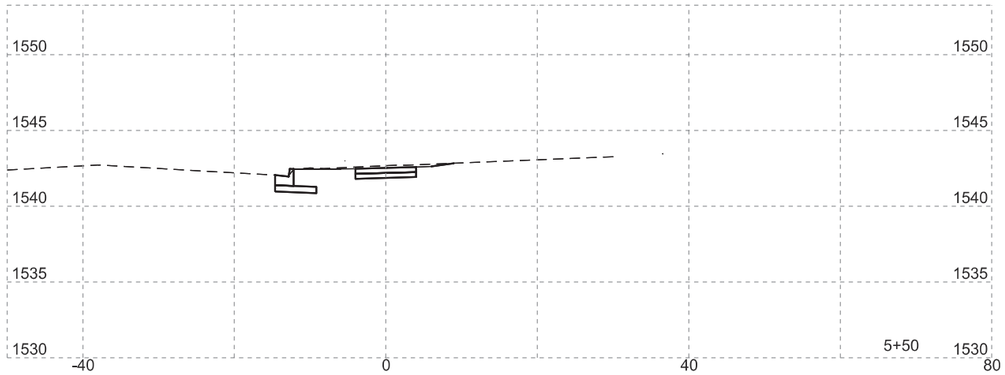



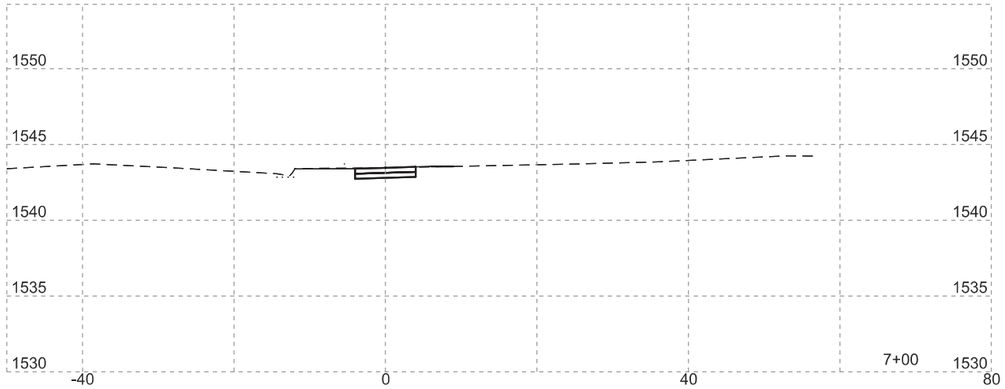



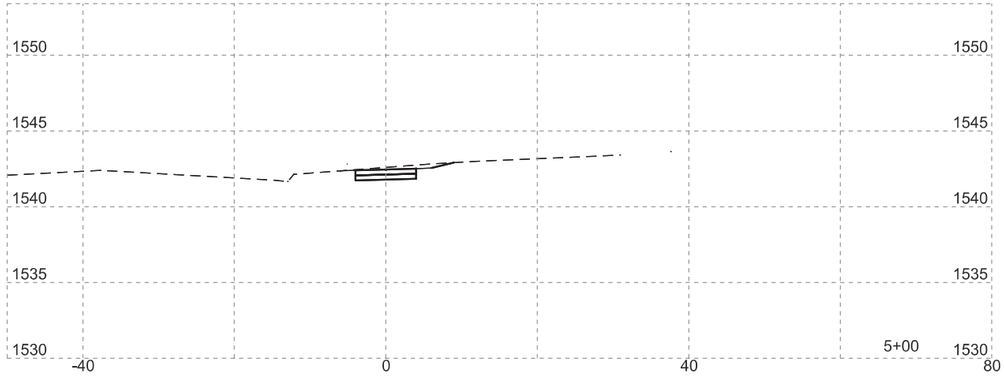



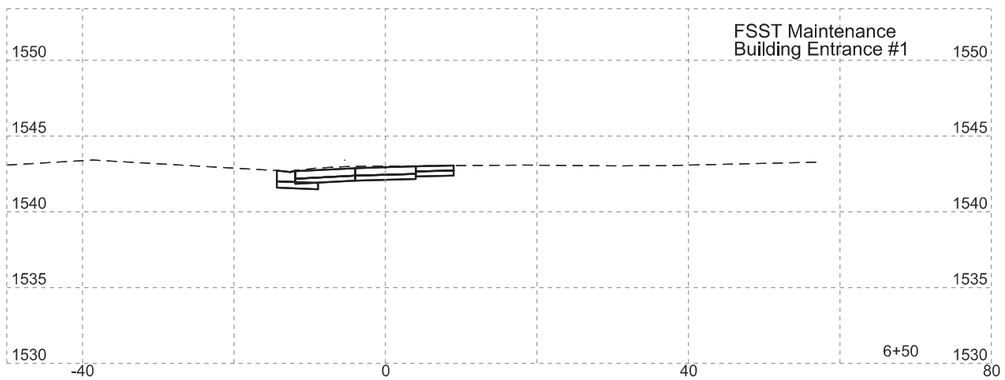



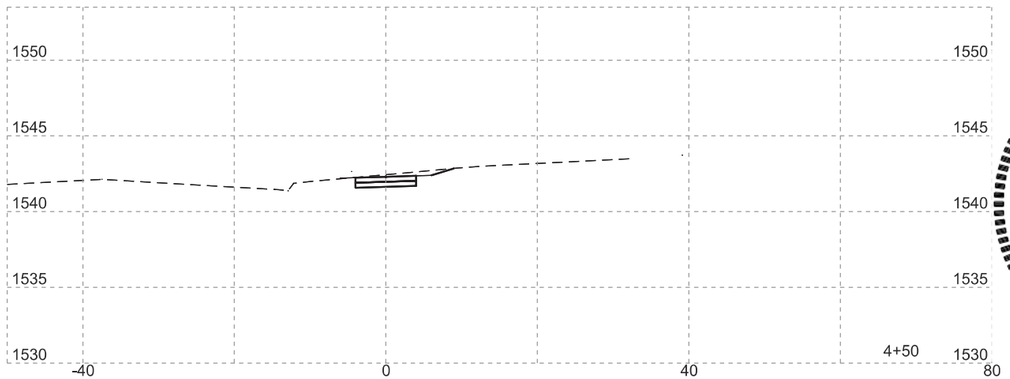



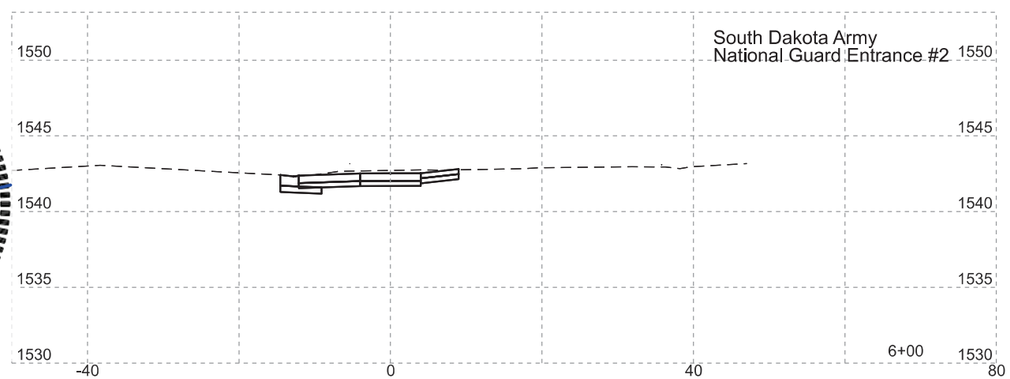



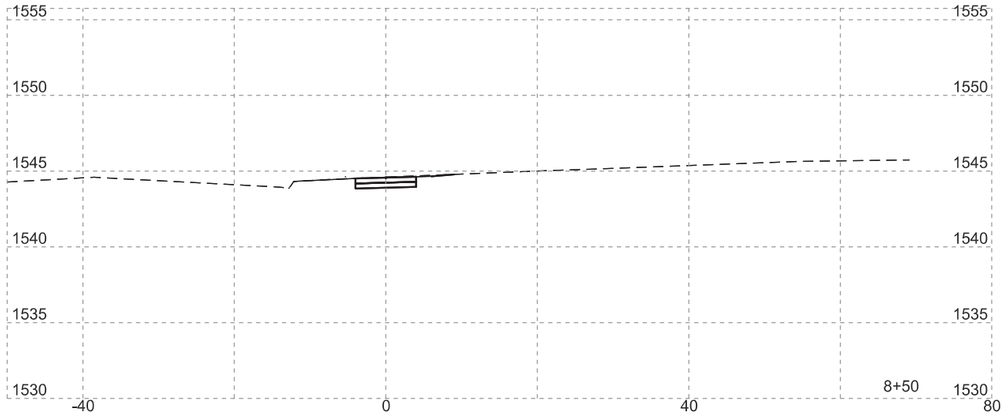



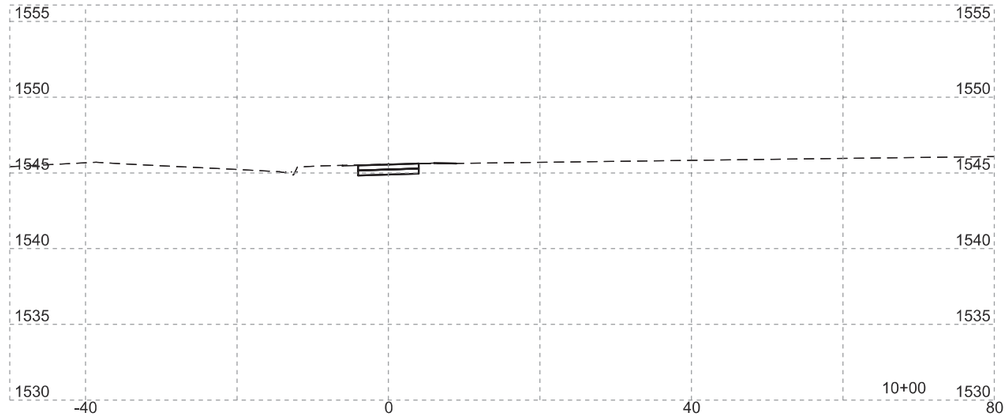



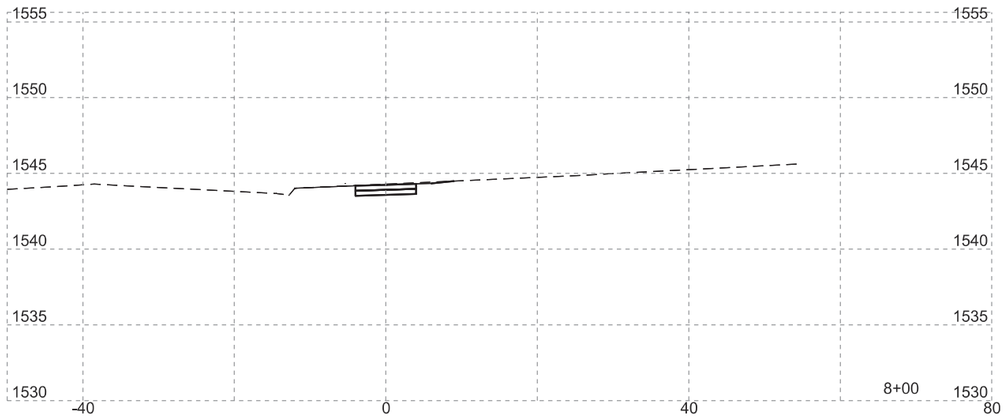


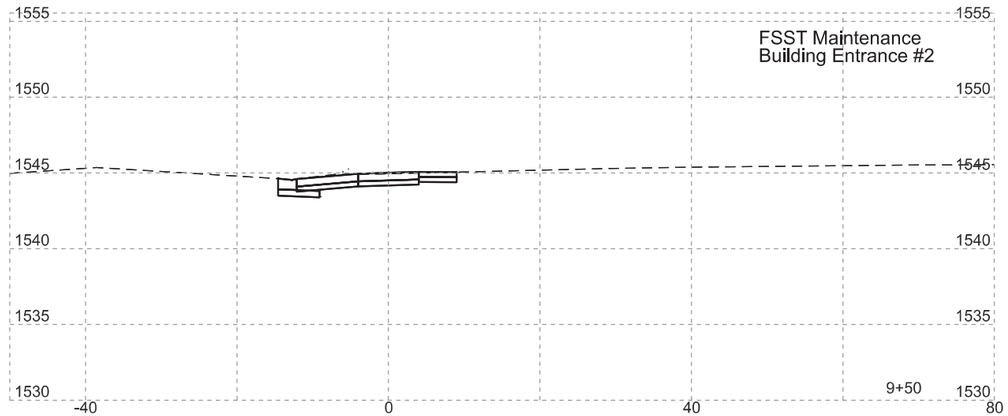


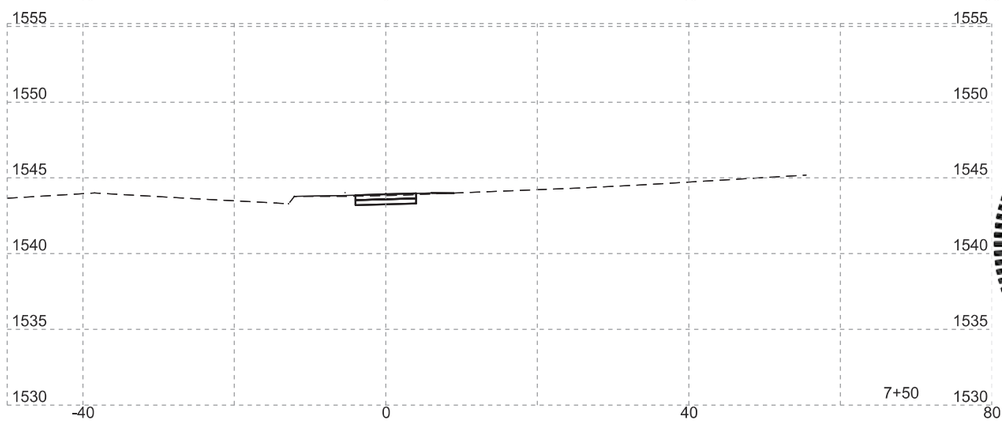


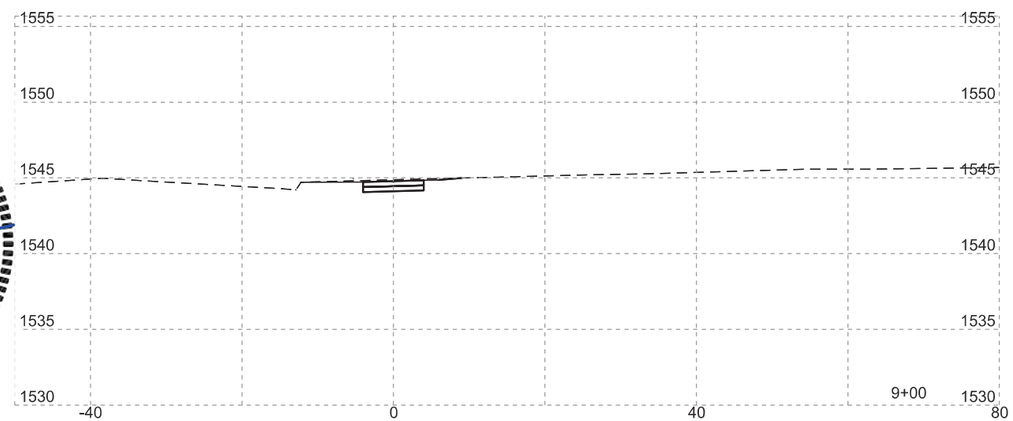



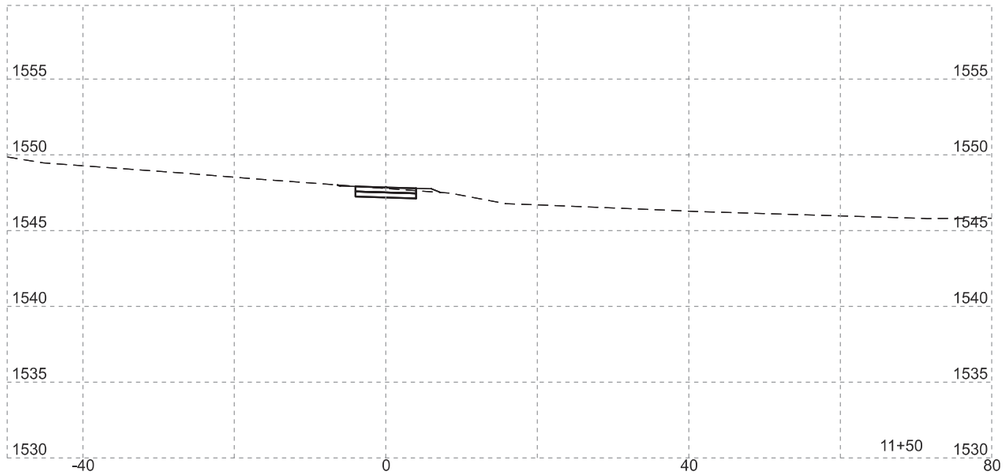

FSST Maintenance
Building Entrance #2

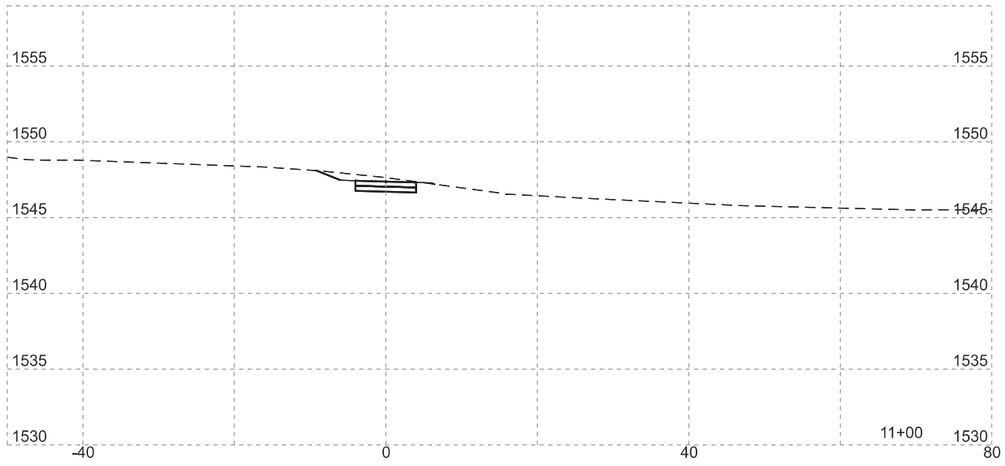


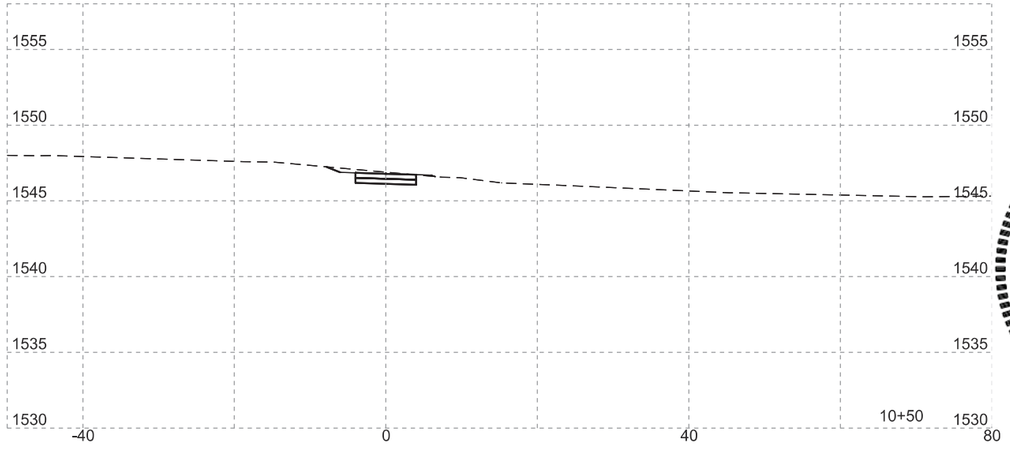



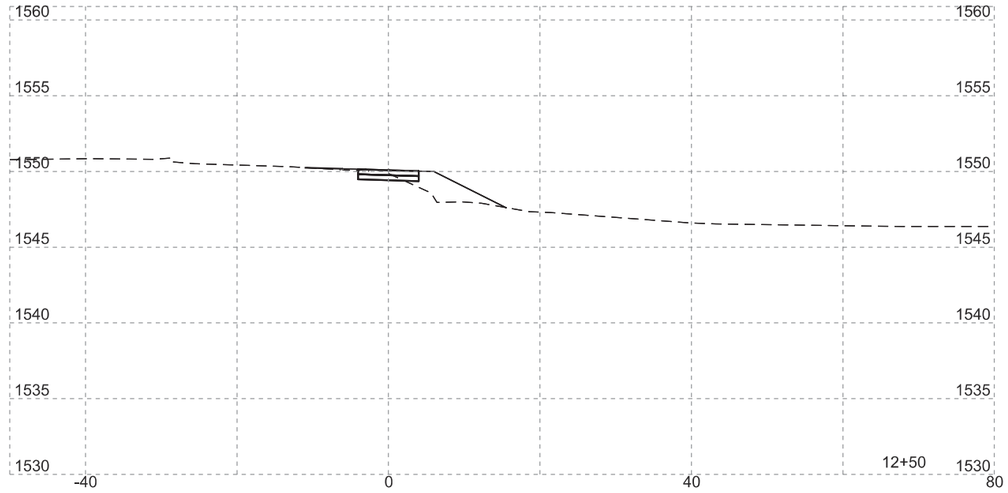



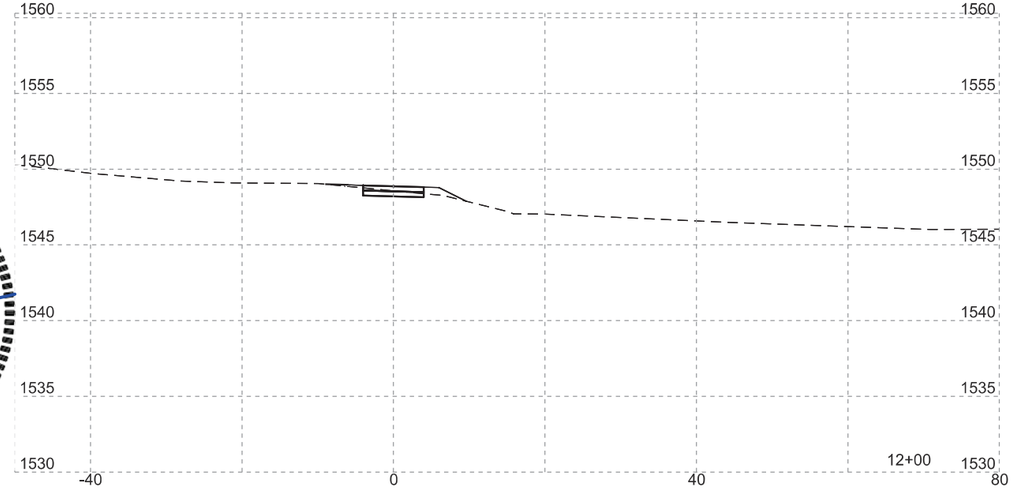



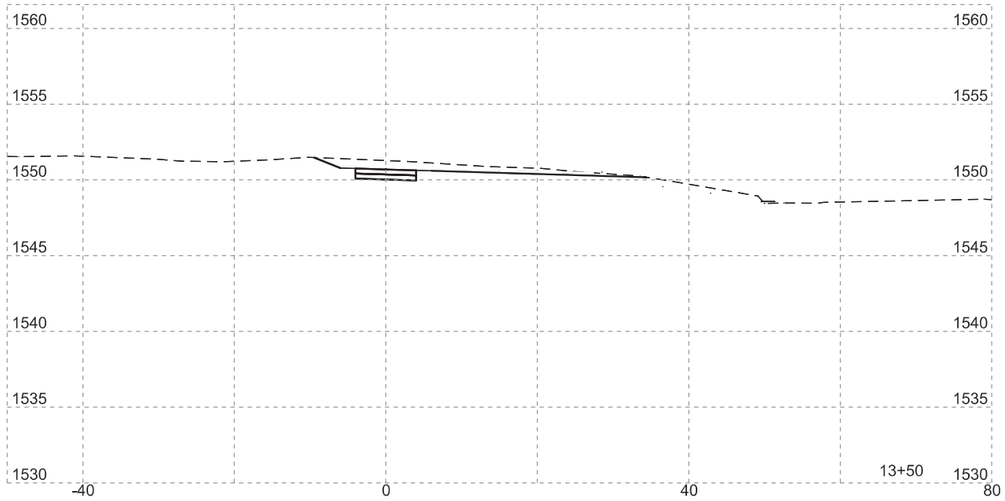



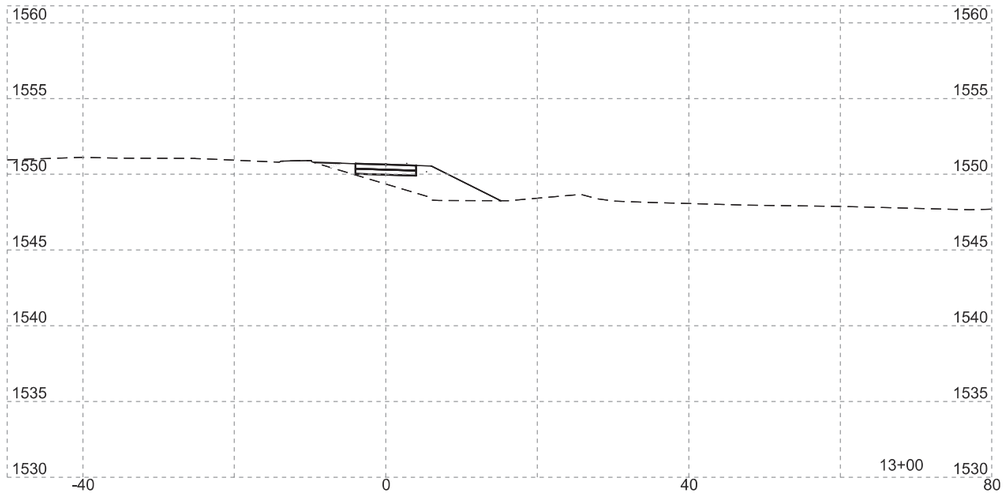



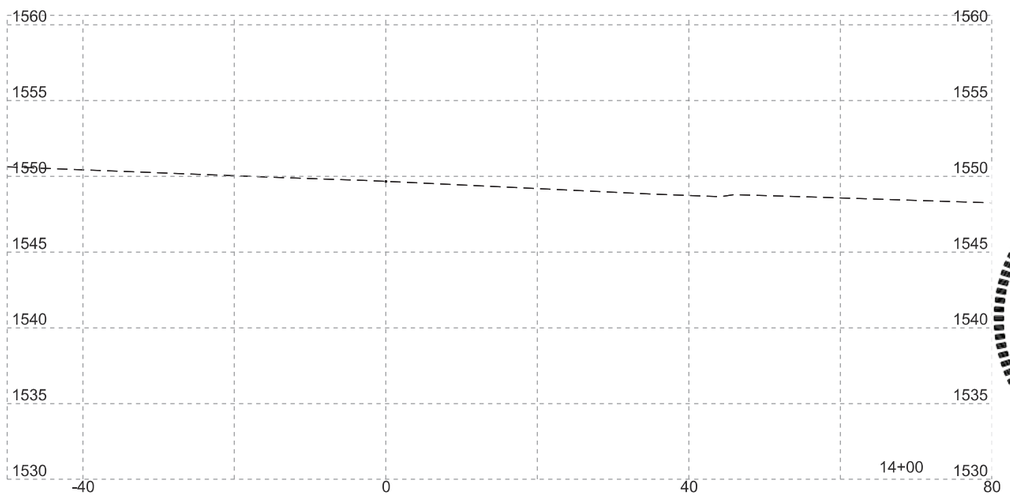



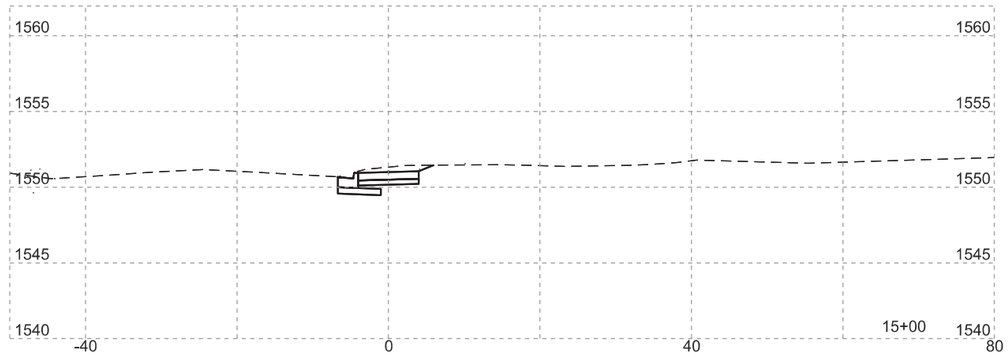



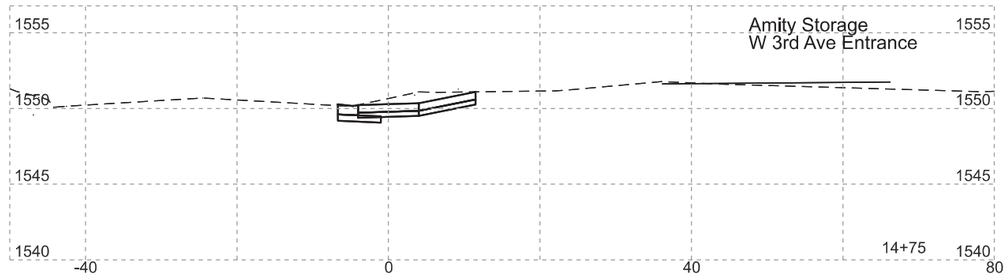



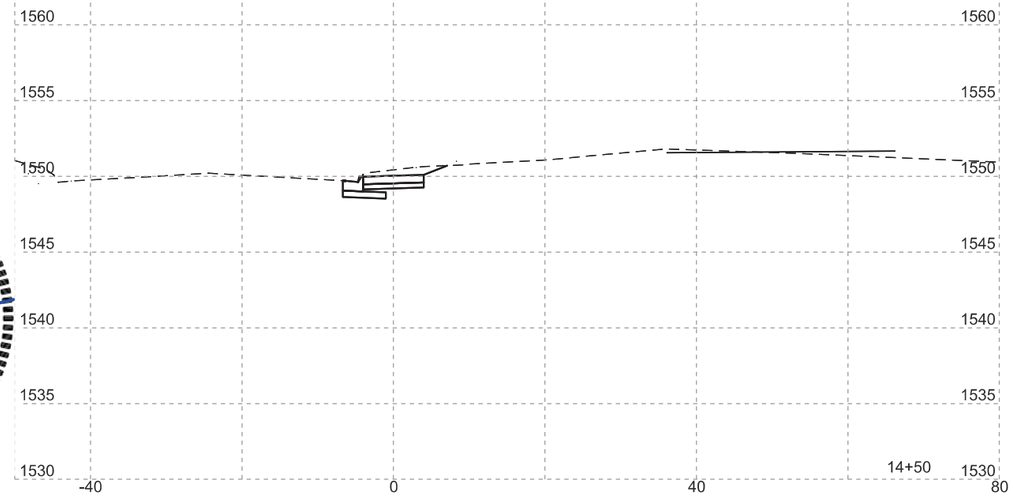



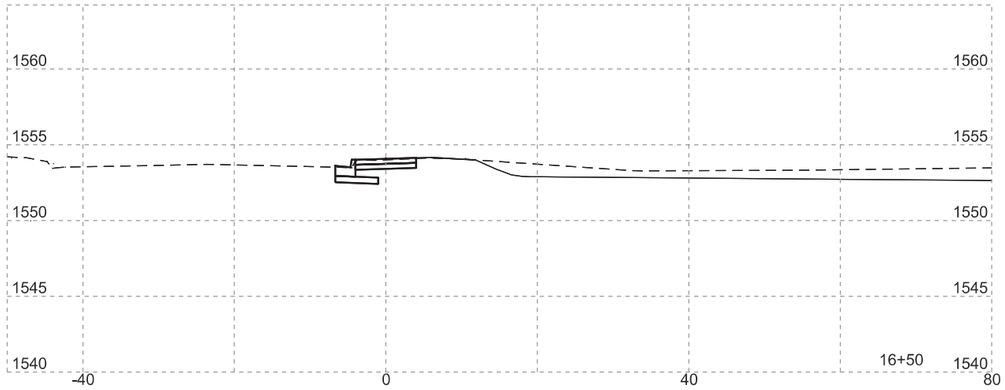



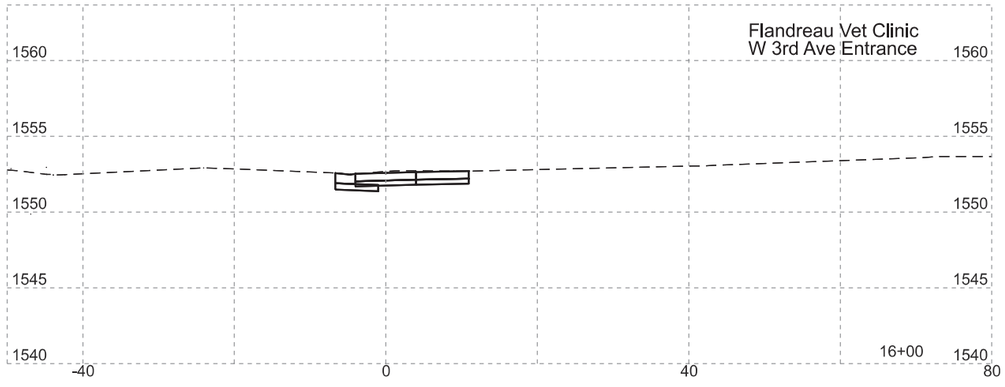



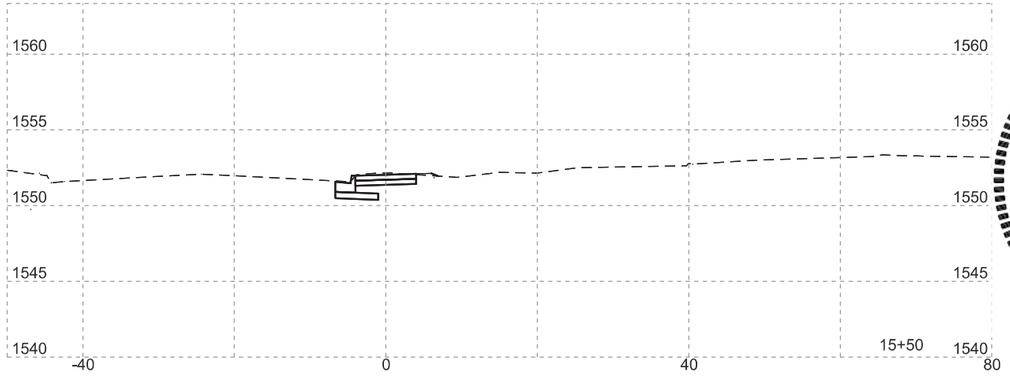



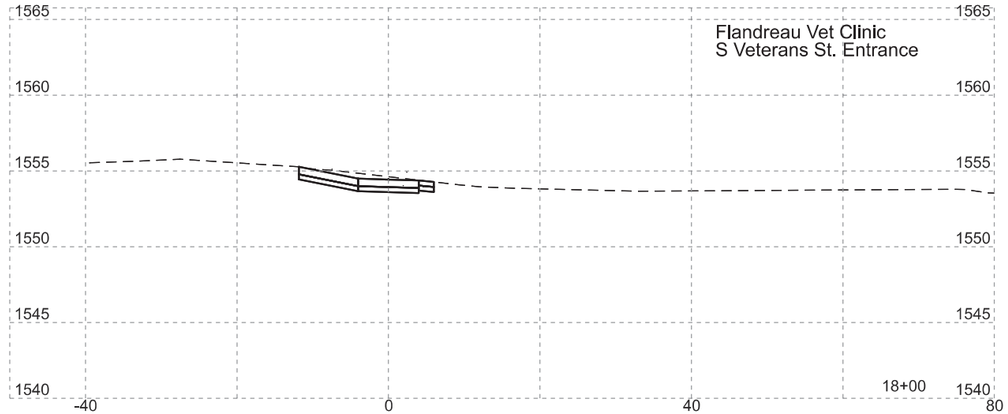



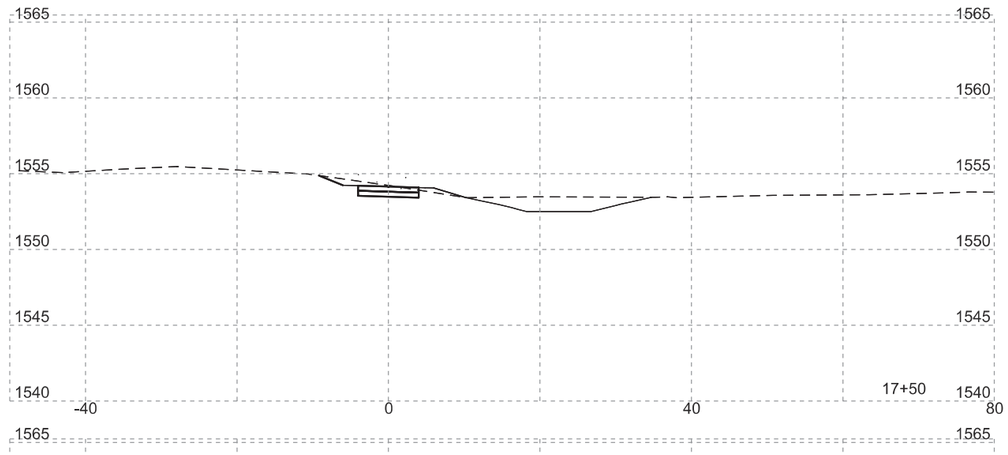



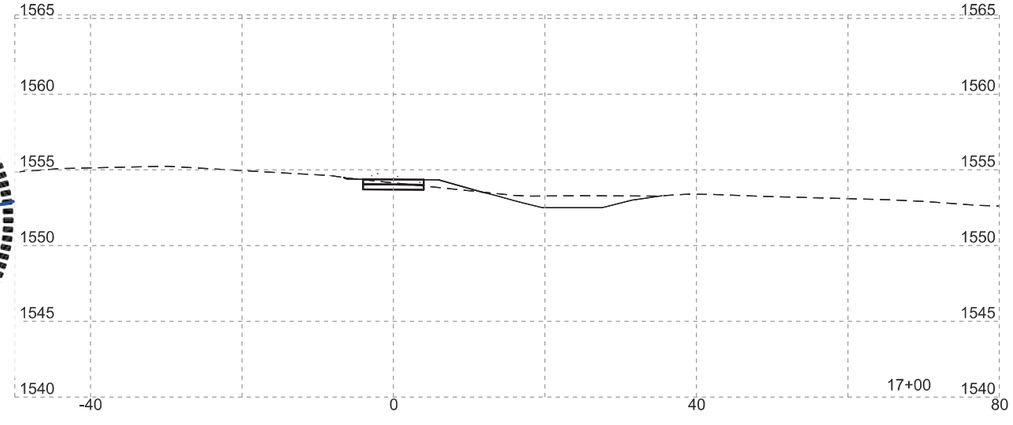



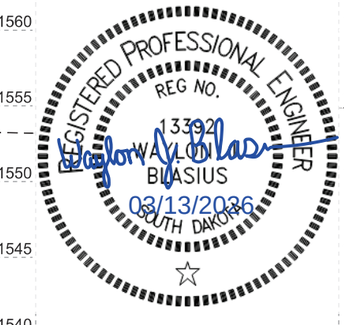



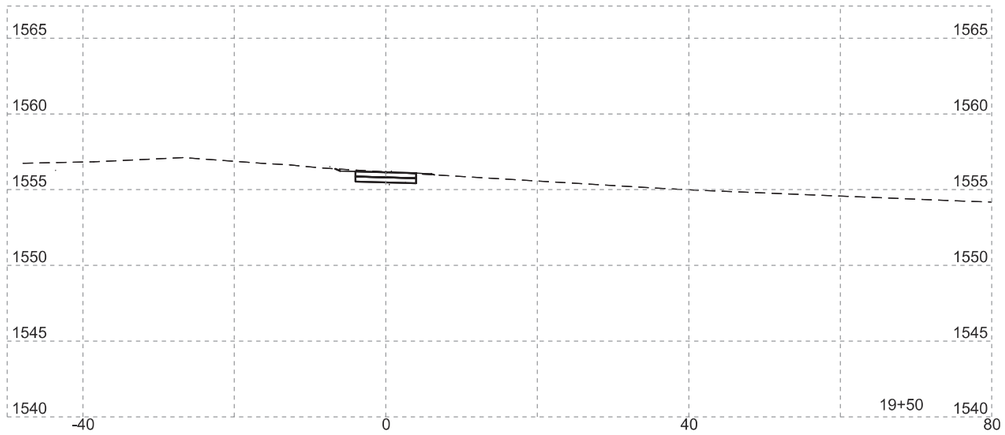



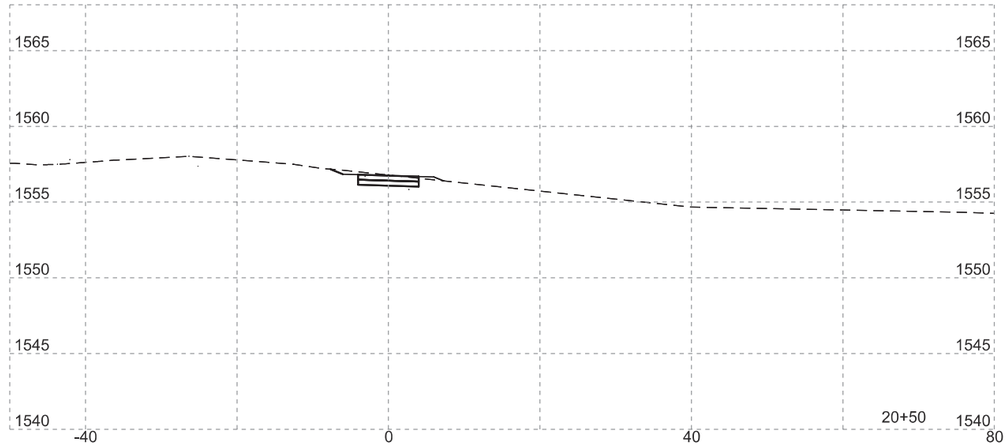



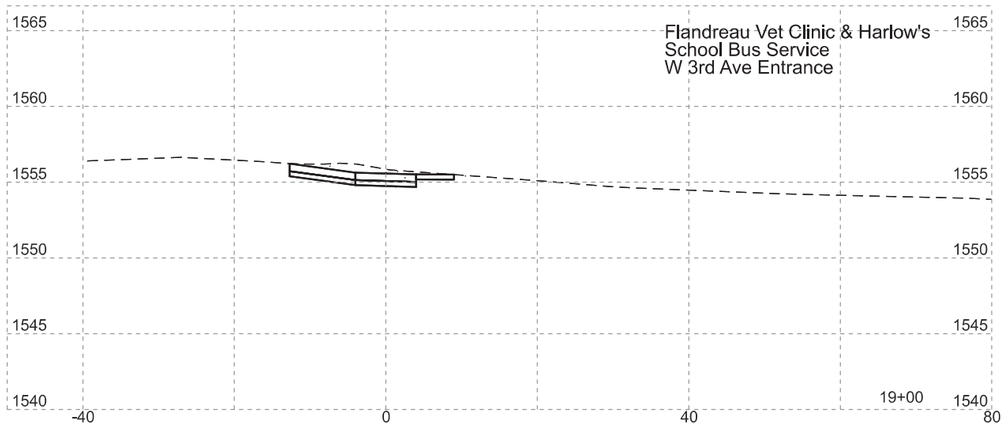



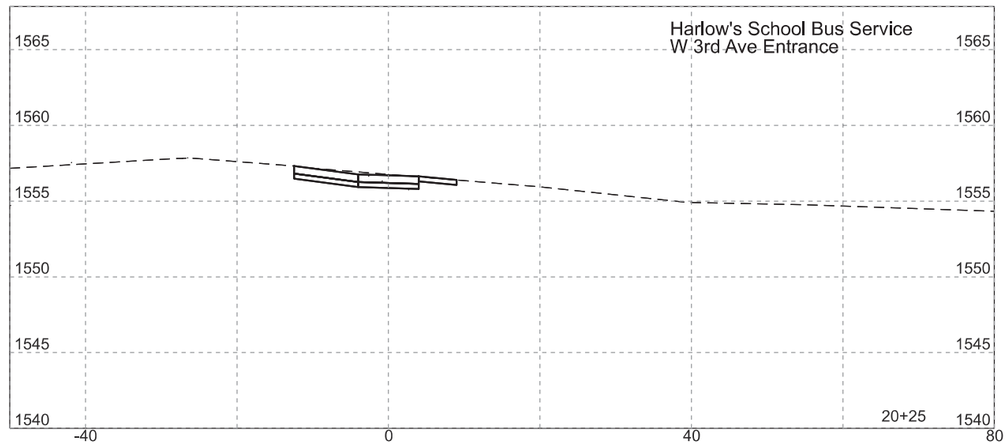



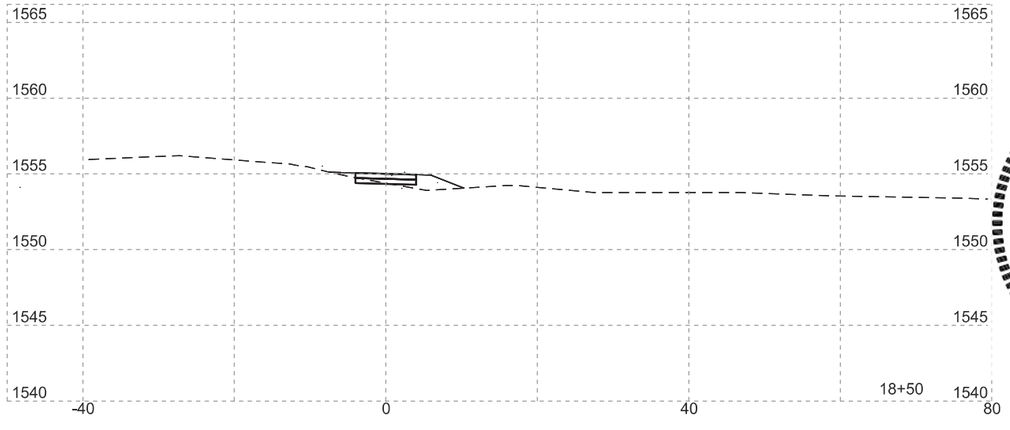



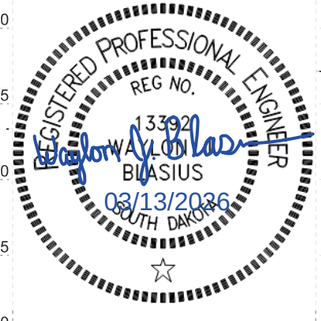


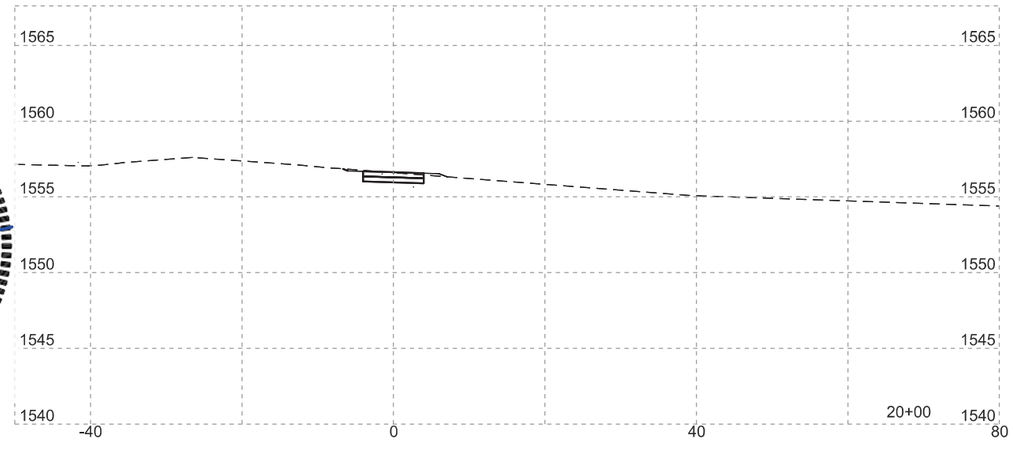



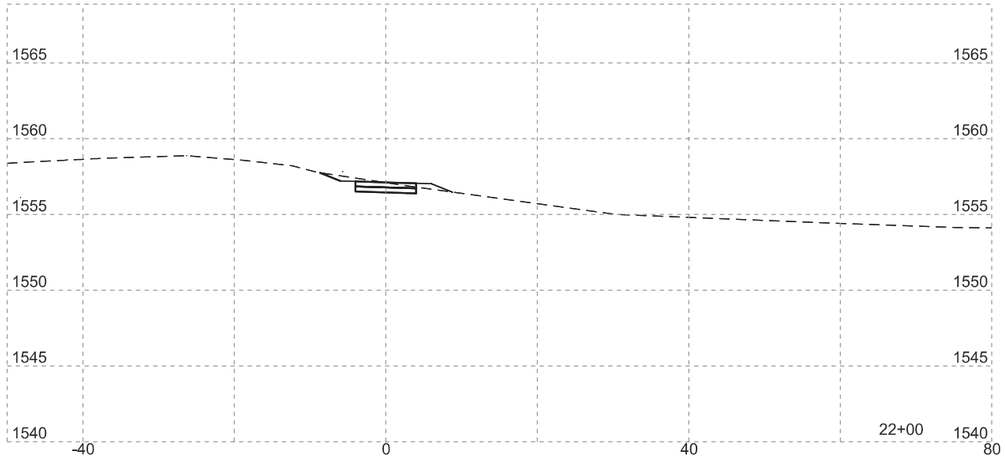



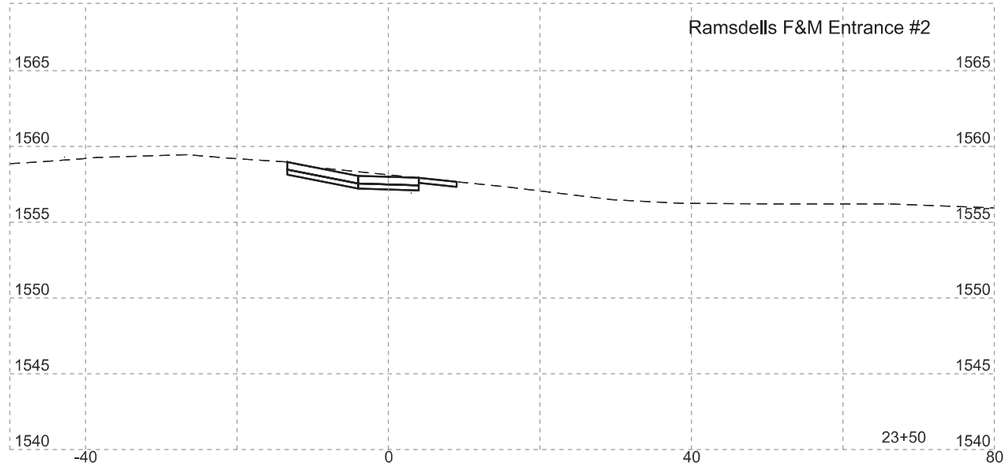



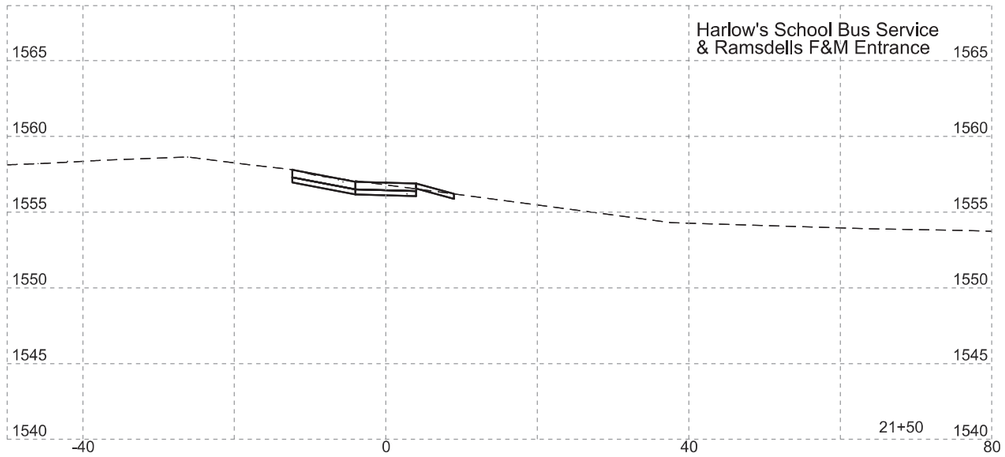



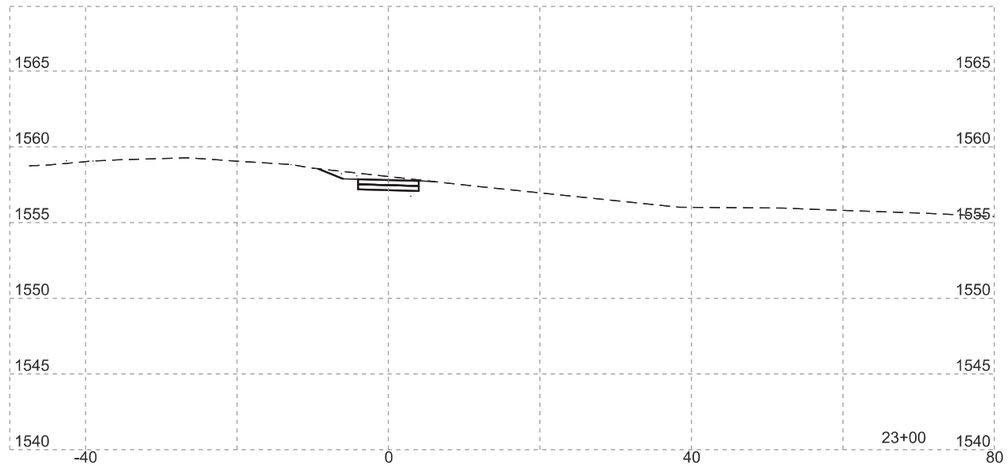



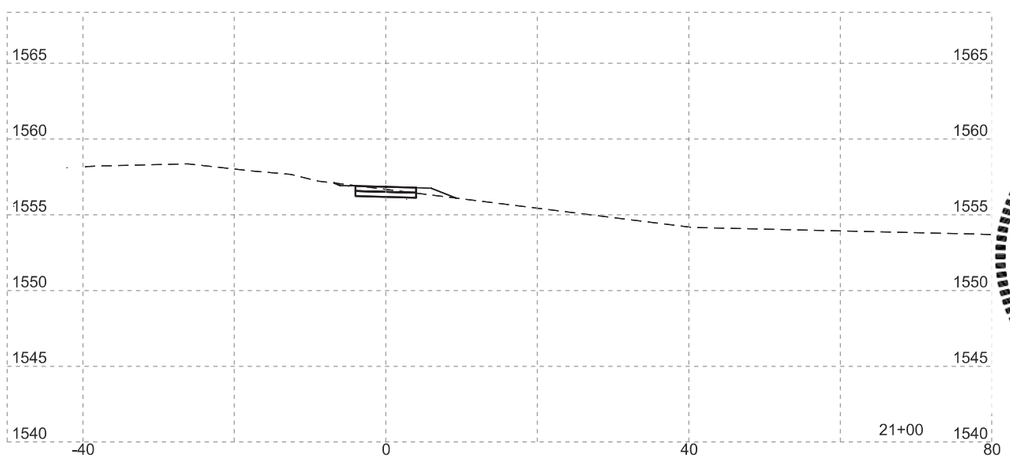



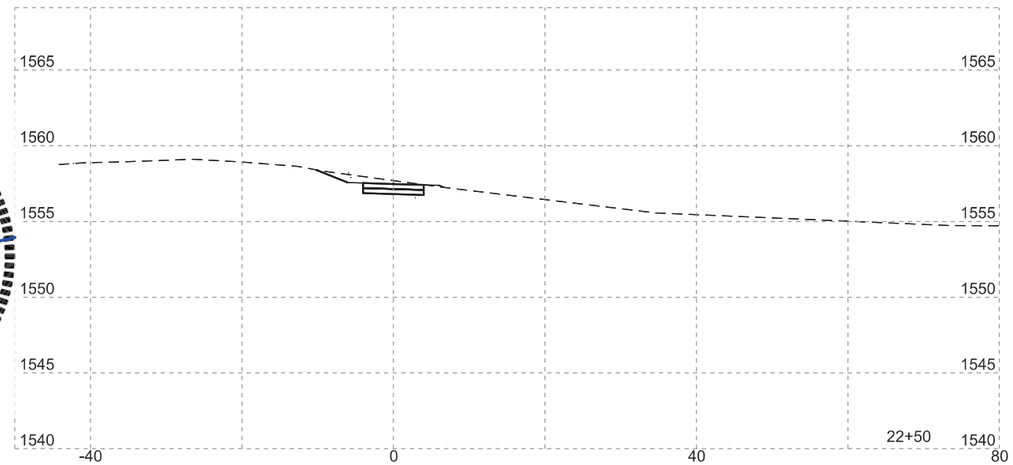


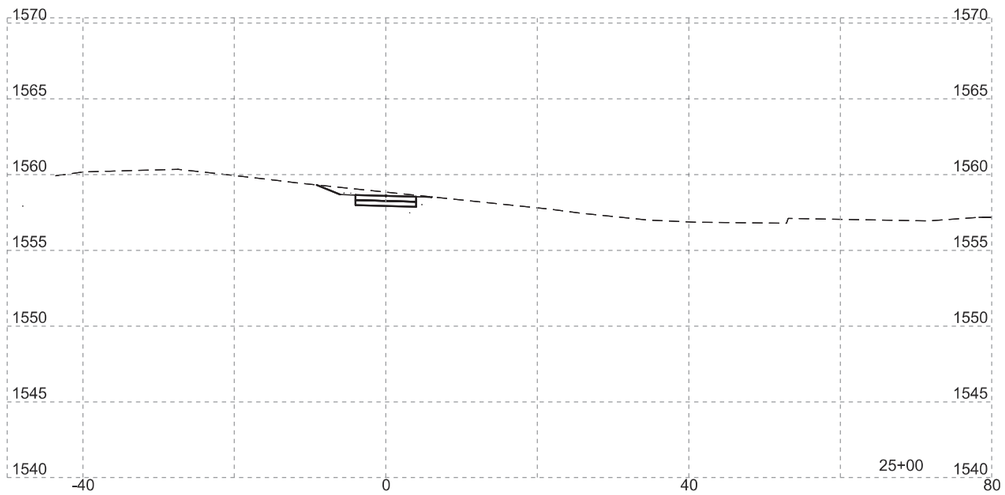



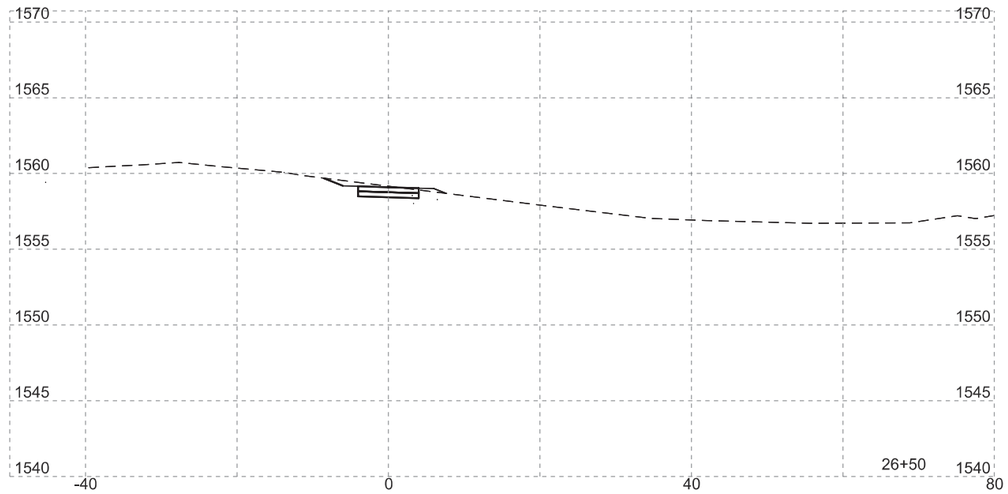



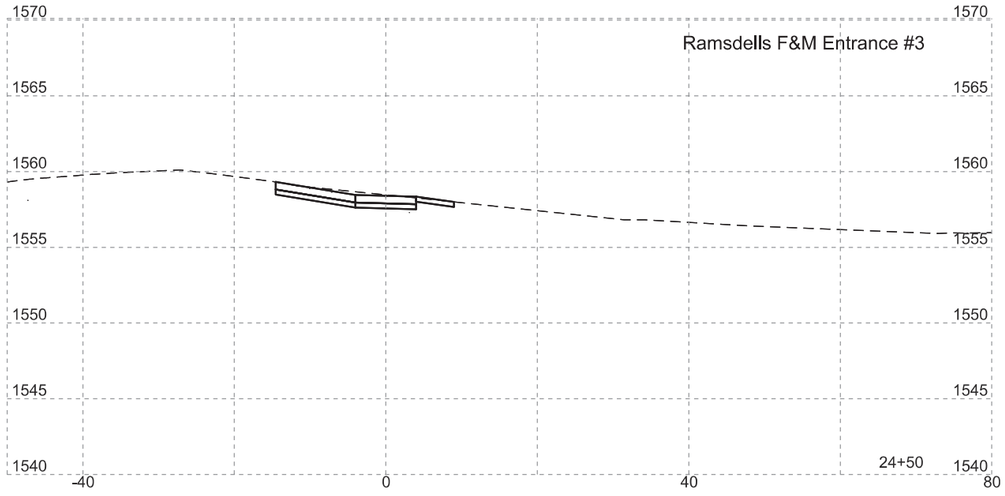



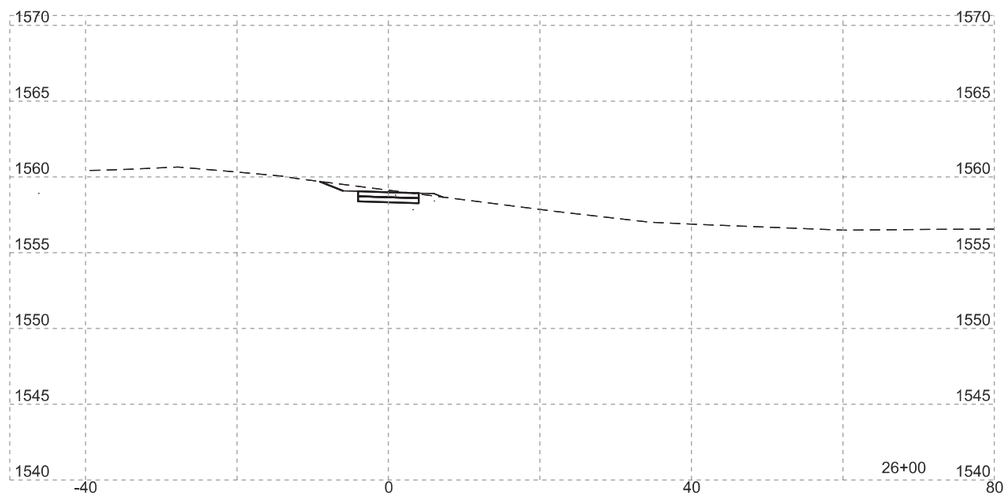



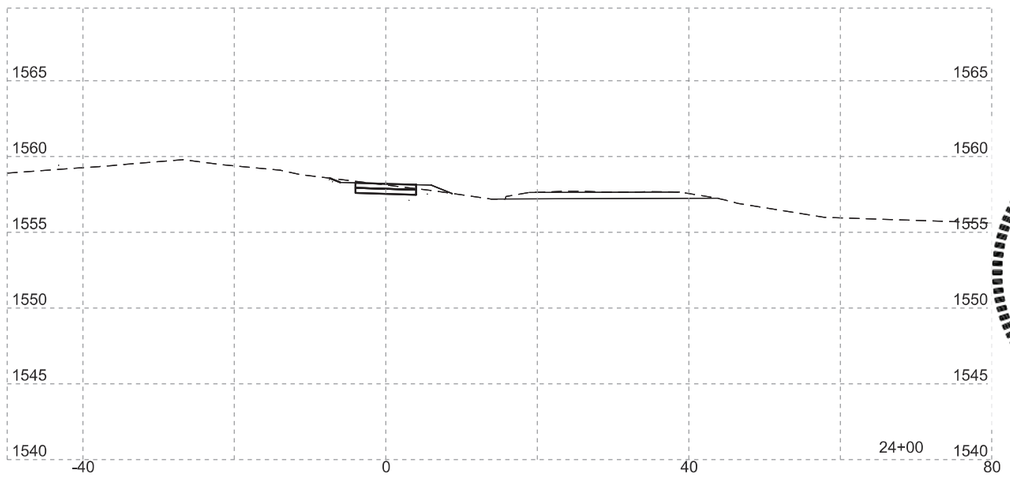



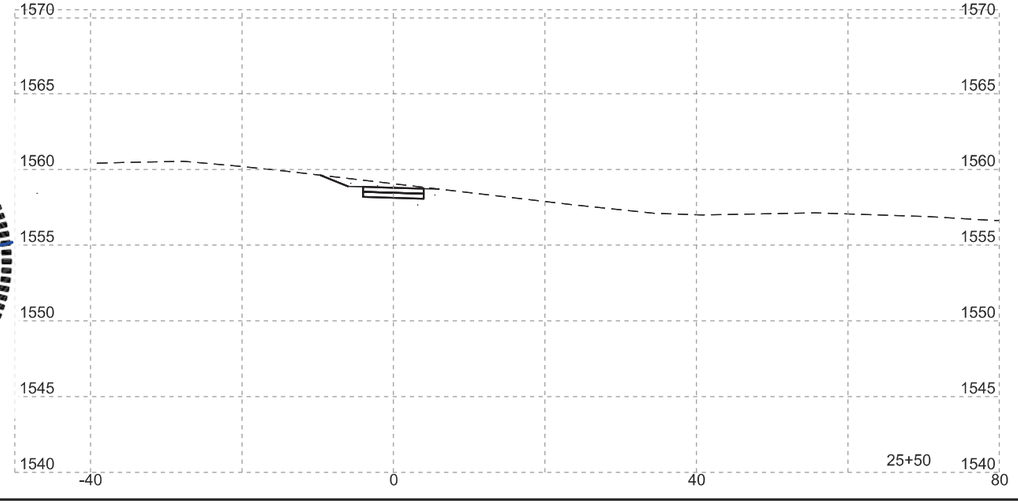



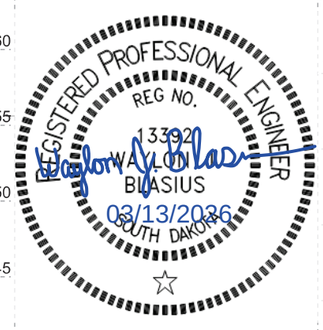



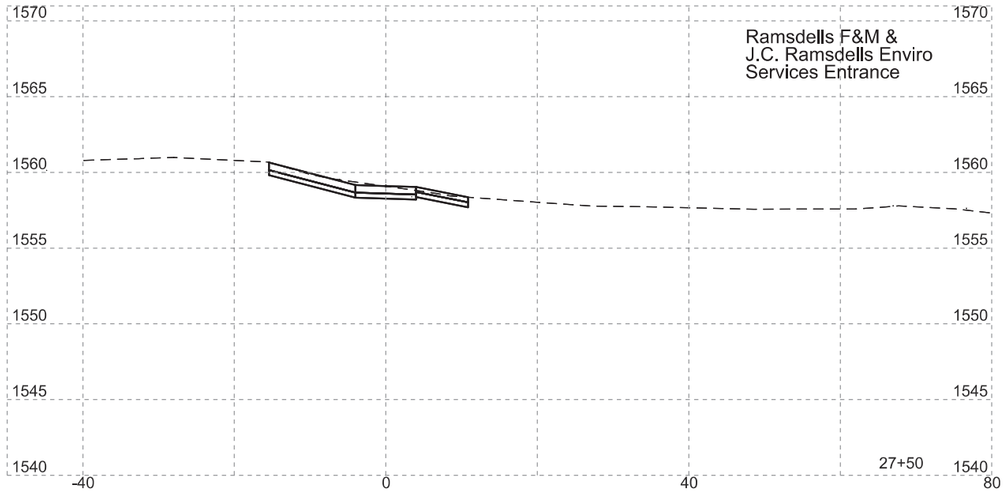



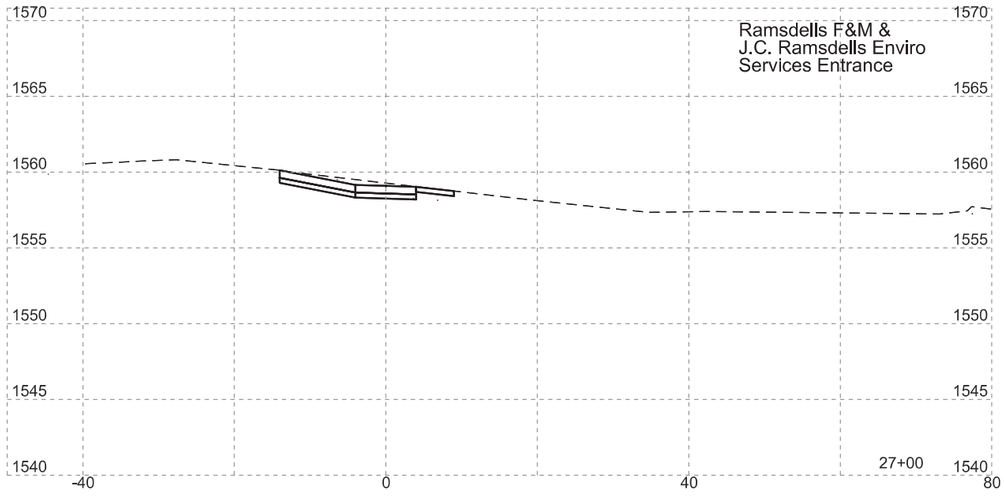



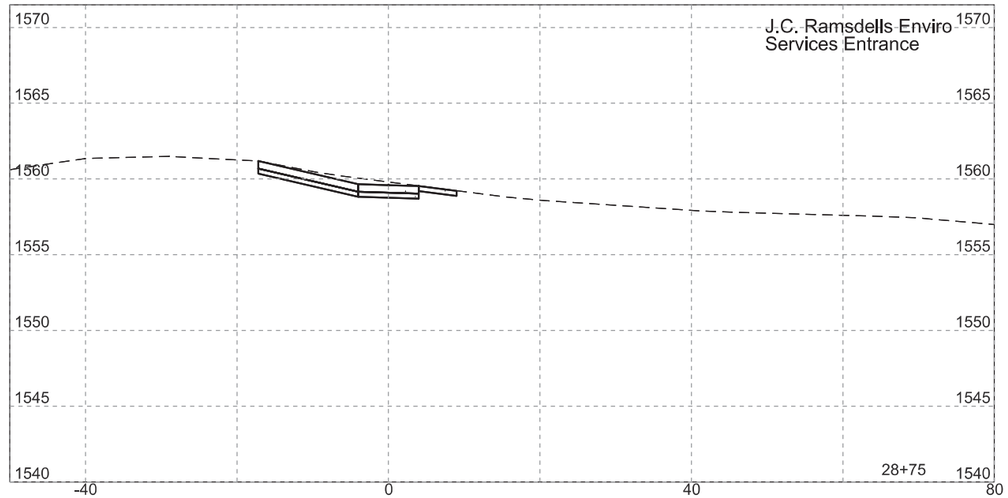



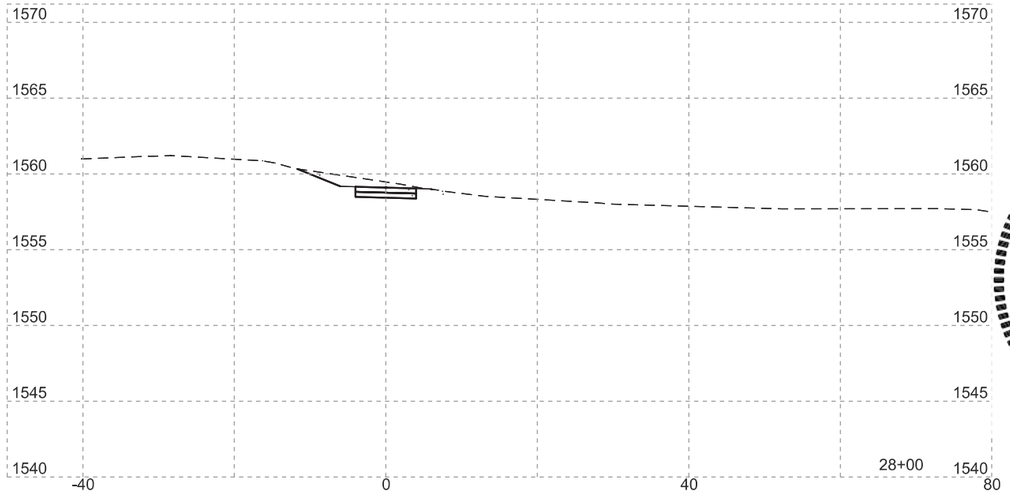



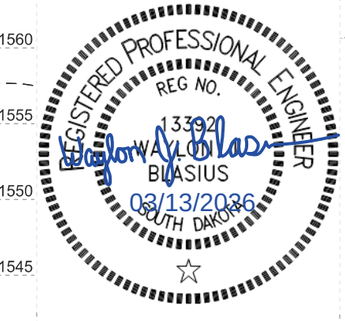



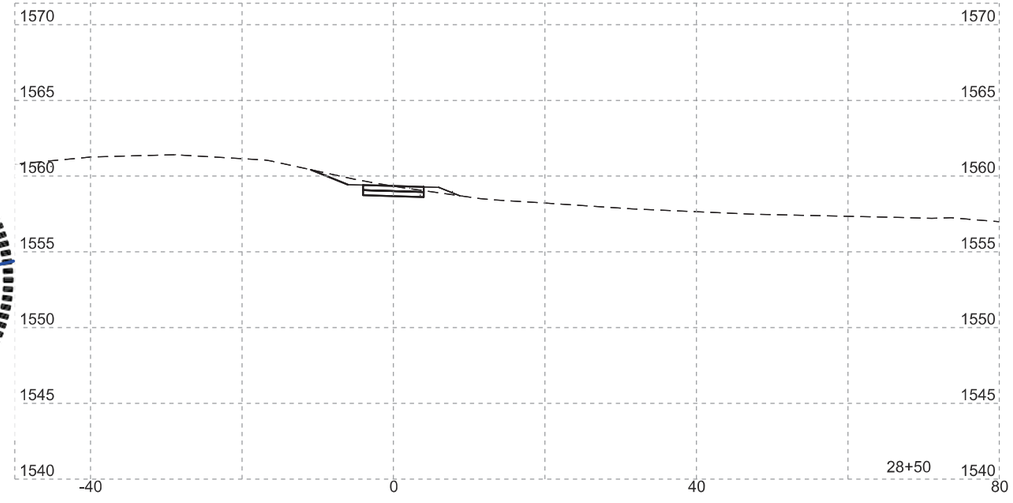


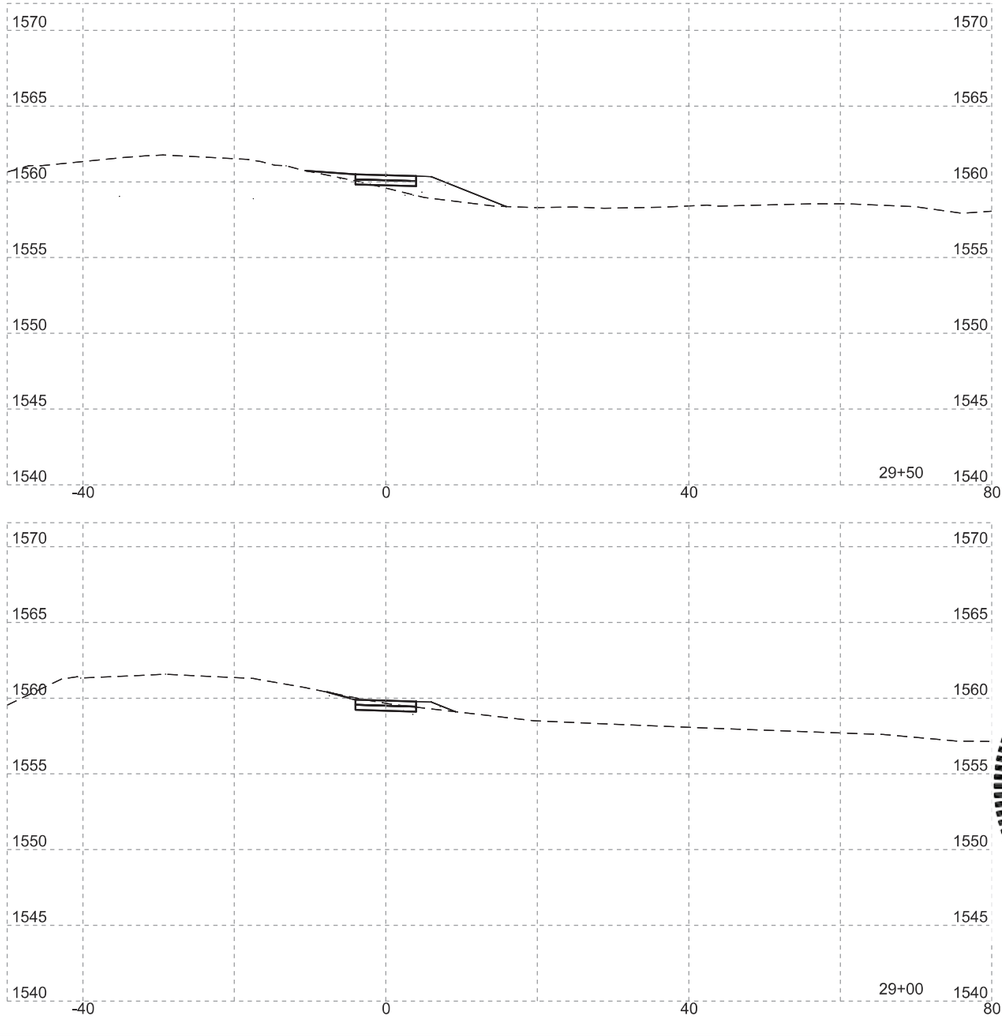



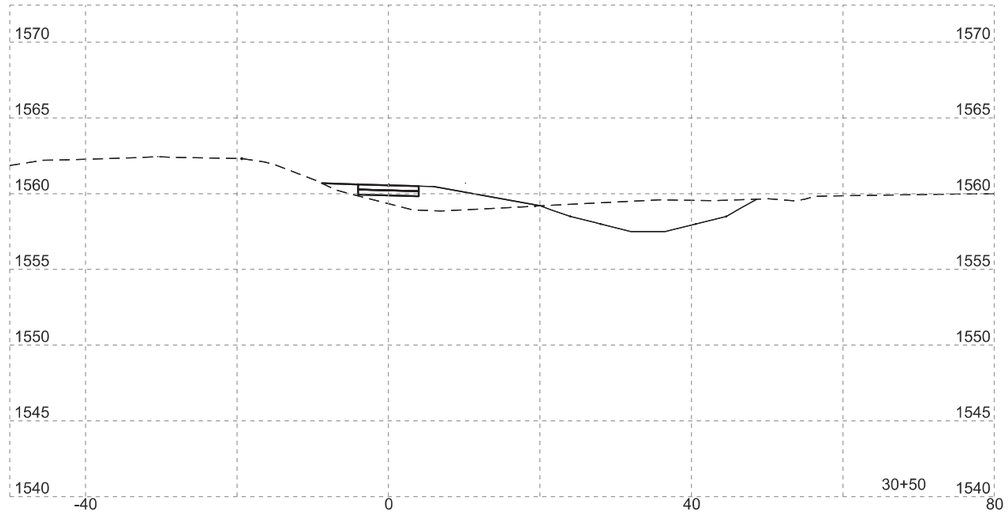



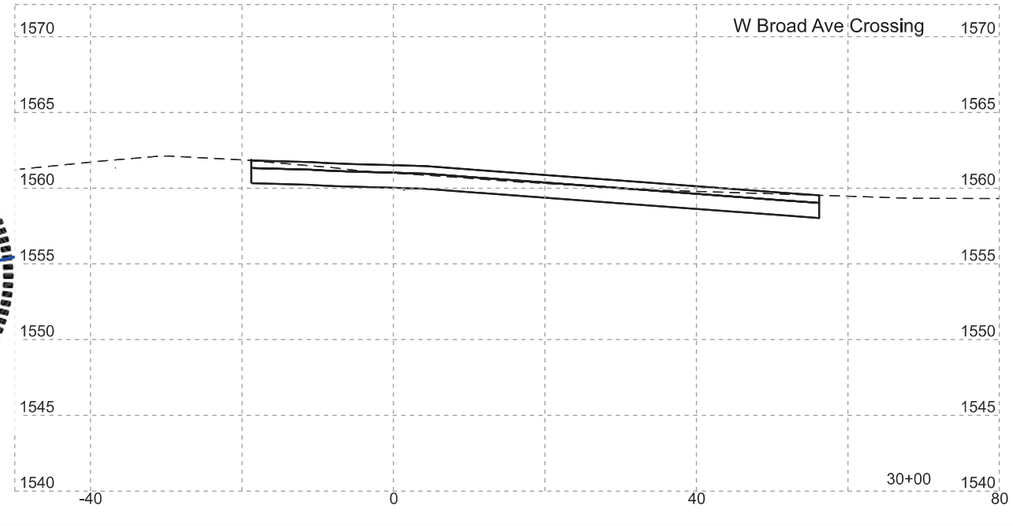





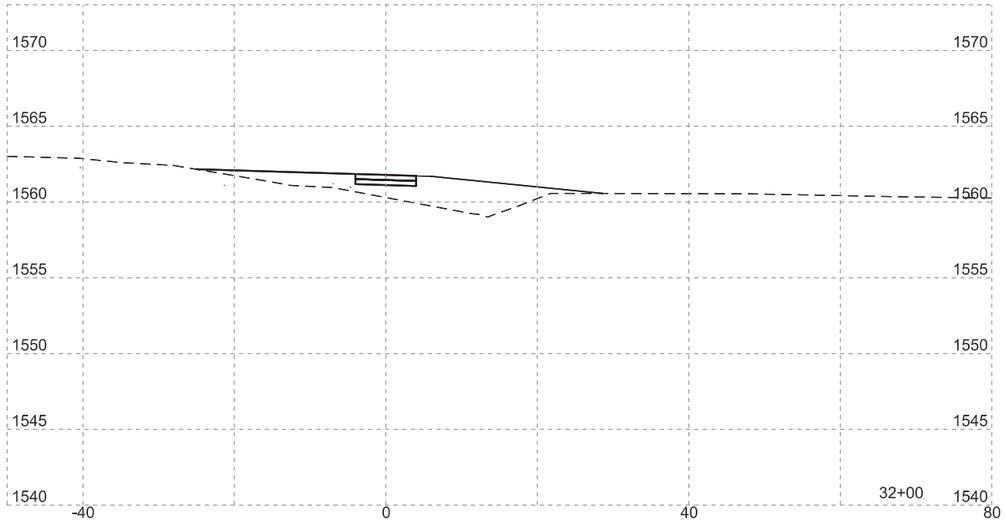



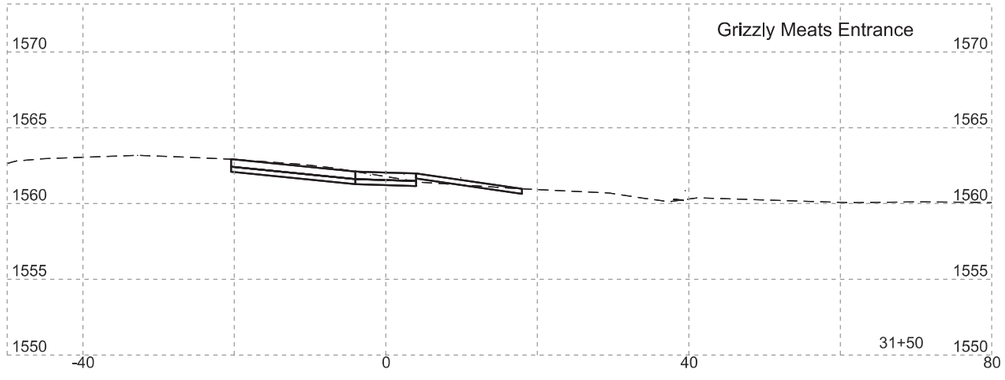


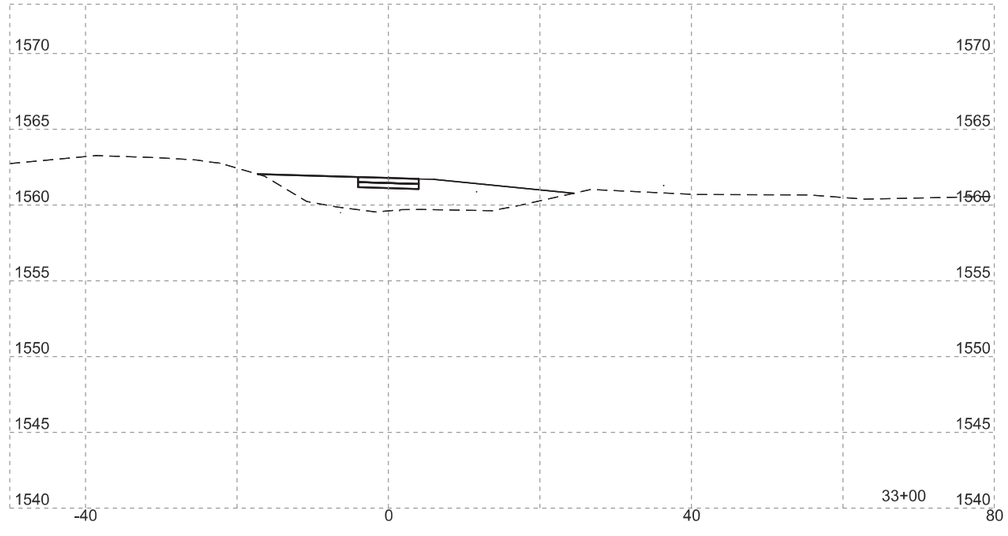


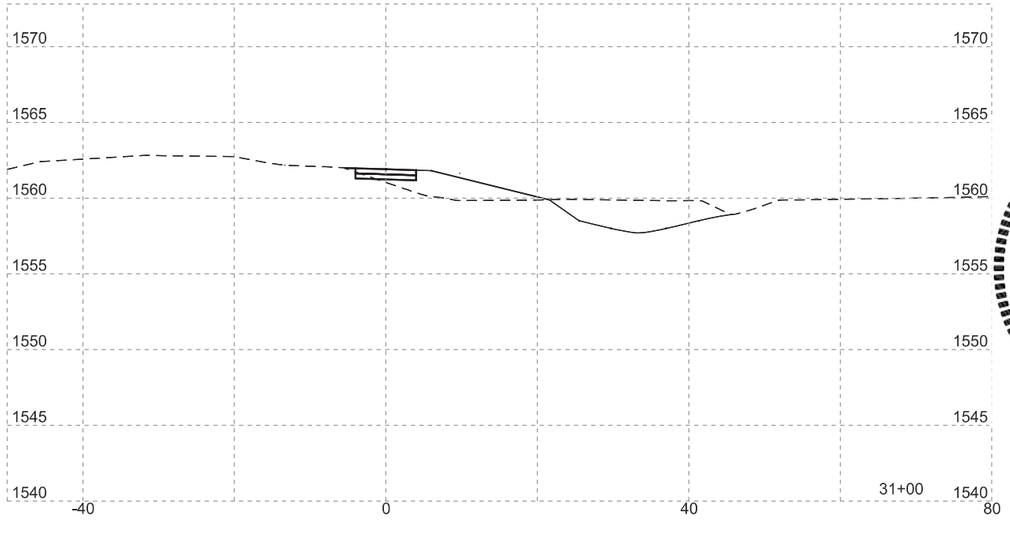


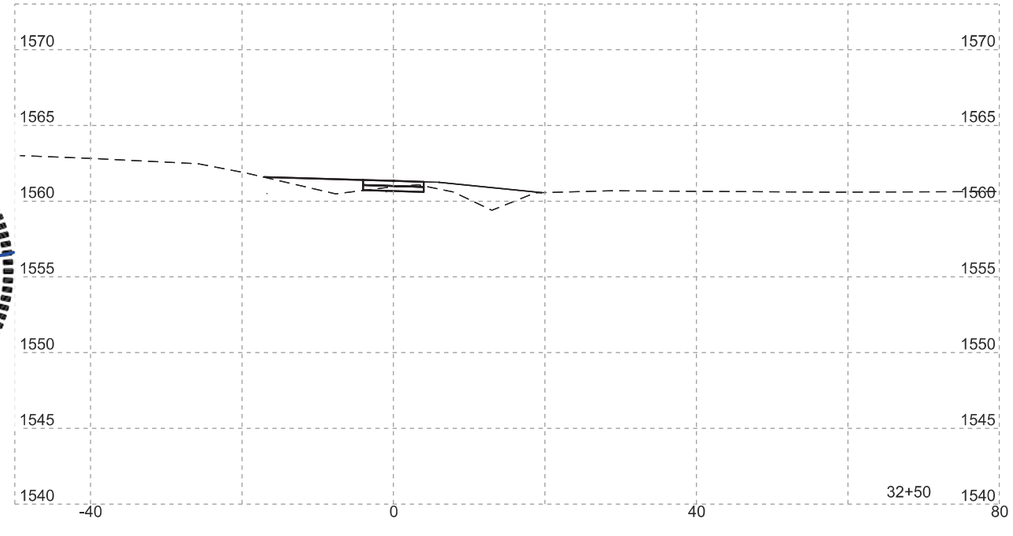

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13392
TAYLOR V. OLSON BIASIUS
03/13/2036
SOUTH DAKOTA

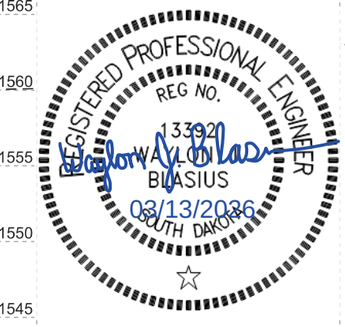


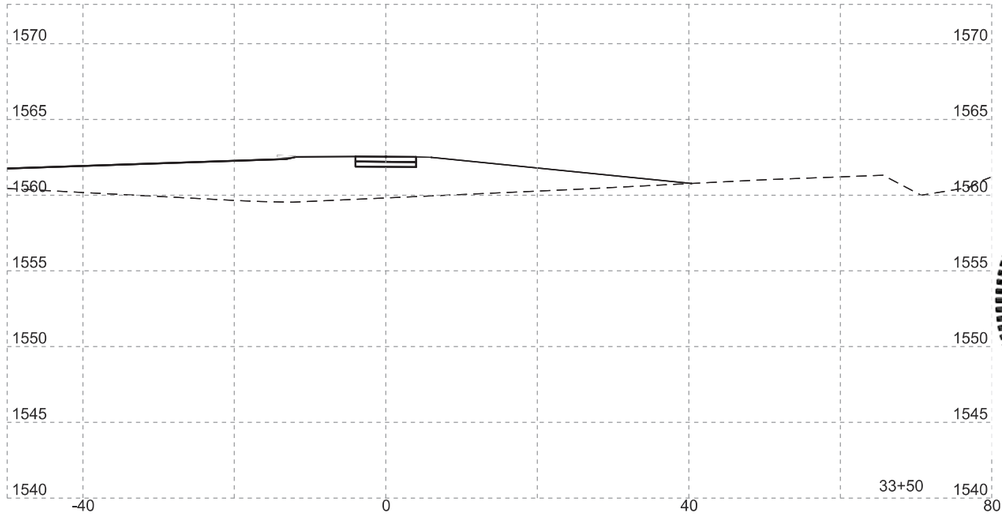



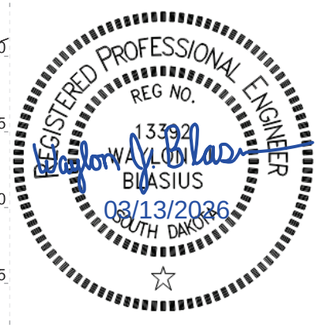



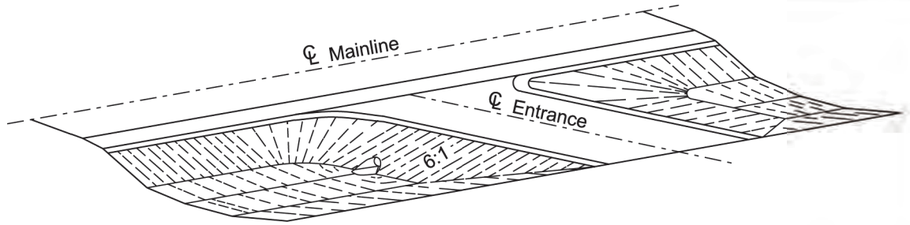



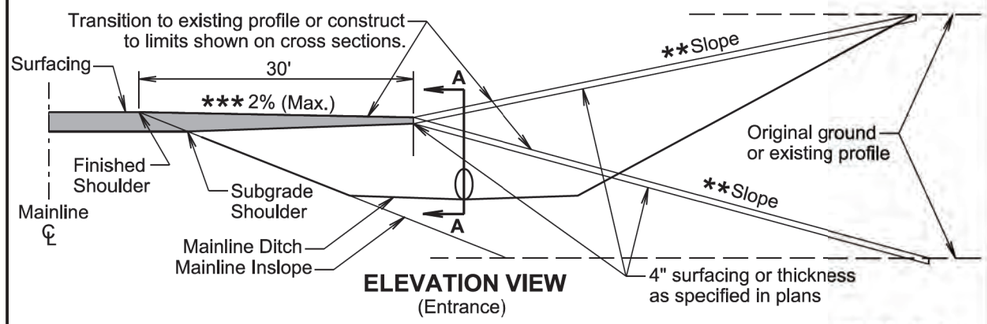
Plotting Date: 3/13/2026





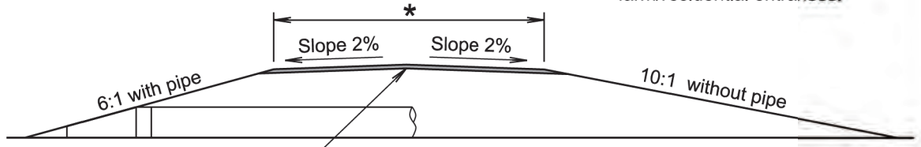

**PERSPECTIVE OF ENTRANCE**




**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.

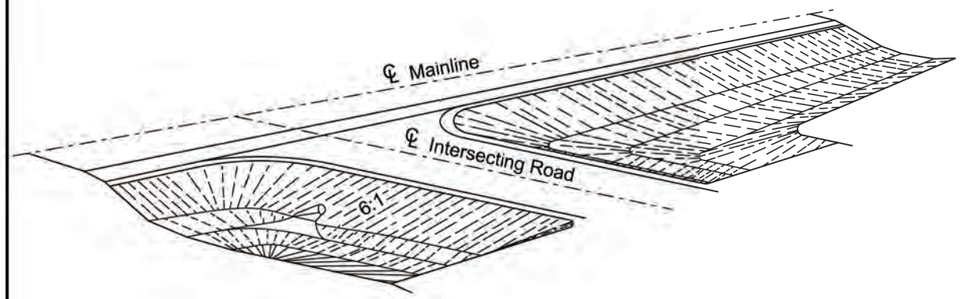
Pipe length will be adjusted if necessary during construction to obtain the 6:1 slope. For grading projects, the pipe length is estimated typically using a 4" thickness of surfacing directly over the subgrade above the pipe.

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

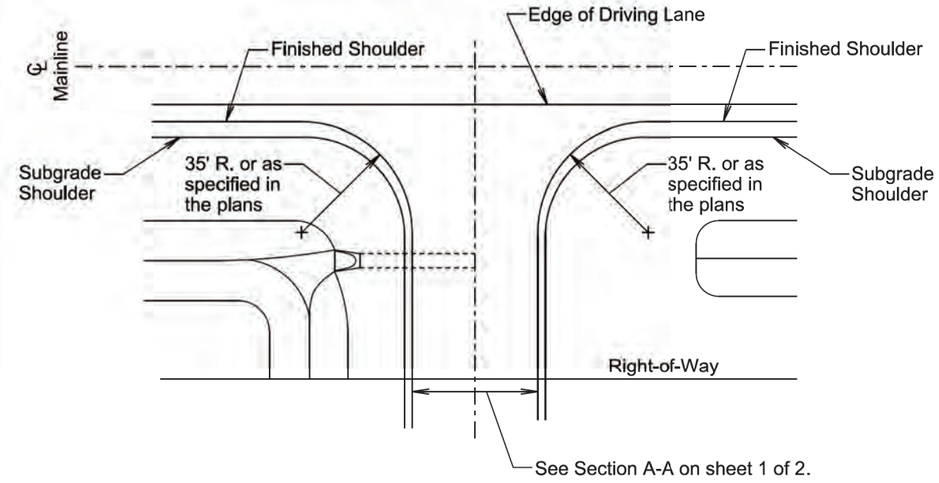
The turning radii will be 35' for intersecting roads and entrances unless stated otherwise in the plans.

November 19, 2021

| Published Date: 2026 | 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: 2026 | SDDOT | INTERSECTING ROADS AND ENTRANCES | PLATE NUMBER 120.01 |
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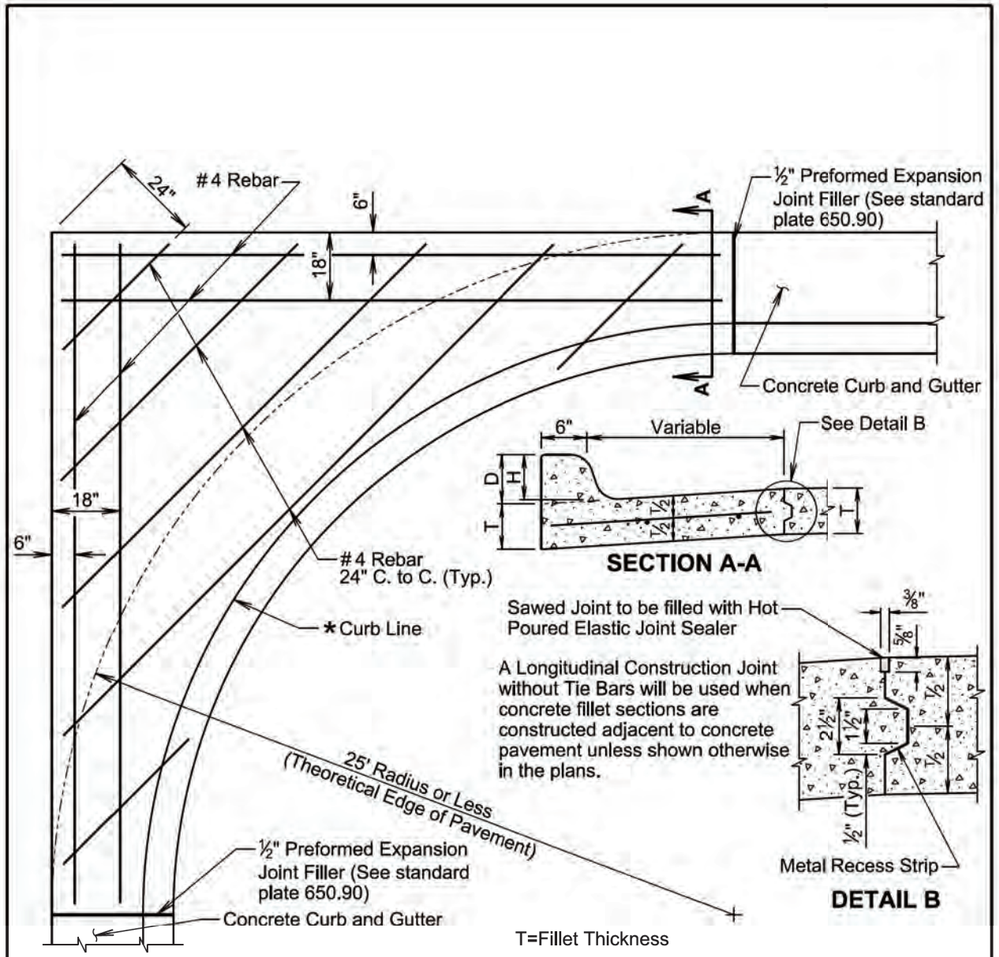
Plotting Date: 3/12/2026




* If a curb ramp is constructed adjacent to a PCC fillet section, the curb will need to be modified. Refer to the corresponding curb ramp standard plate or other special details in the plans for modification of the PCC fillet section.

March 31, 2024

| Published Date: 2026 | SDDOT | PCC FILLET SECTION WITH TYPE B CURB AND GUTTER | PLATE NUMBER 380.30 |
|---|---|---|---|
| | | | Sheet 1 of 2 |

**GENERAL NOTES:**

For fillets with irregular shapes or bump outs:

1) The 6" and 18" offset #4 rebar will be included on any side next to pavement or driveways (not along the Curb and Gutter).

2) All remaining area will have #4 rebar spaced 24" center to center in a square pattern.

Dimensions D, H, and T will conform to those shown on the appropriate curb and gutter standard plate.

All rebar will be in conformance with Sections 480 and 1010 of the Specifications. All rebar will have a minimum of 3 inches of clear cover.

Class M6 Concrete will be used in construction of the fillets.

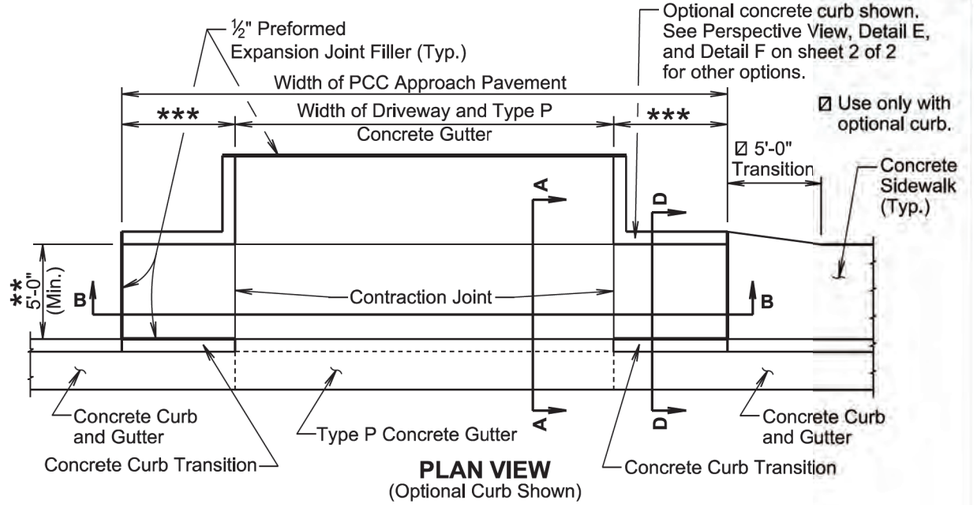
The concrete curb will be monolithic with the concrete fillet. No separate payment for this curb will be made as the curb is considered a part of the fillet.

Joints will be constructed at 10-foot intervals except when fillets are constructed adjacent to PCC Pavement. If there is adjacent PCC Pavement the joints will be extended from edge of pavement through the fillet section as directed by the Engineer.

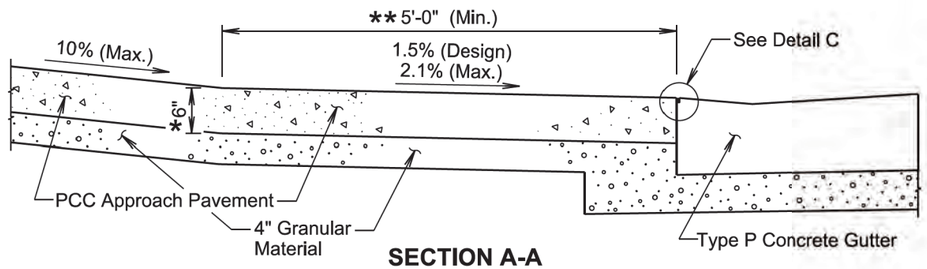
The cost for all materials, labor, and incidentals necessary to construct the PCC fillet section with curb and gutter will be incidental to the contract unit price per square yard for the corresponding PCC fillet section contract item.

March 31, 2024

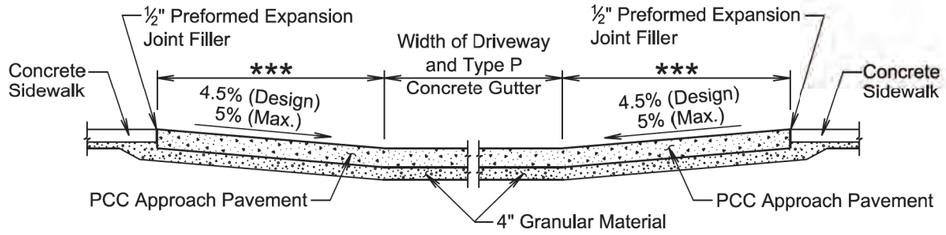
| Published Date: 2026 | SDDOT | PCC FILLET SECTION WITH TYPE B CURB AND GUTTER | PLATE NUMBER 380.30 |
|---|---|---|---|
| | | | Sheet 2 of 2 |




**PLAN VIEW**
(Optional Curb Shown)




**SECTION A-A**




**SECTION B-B**

* 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 8, 2025

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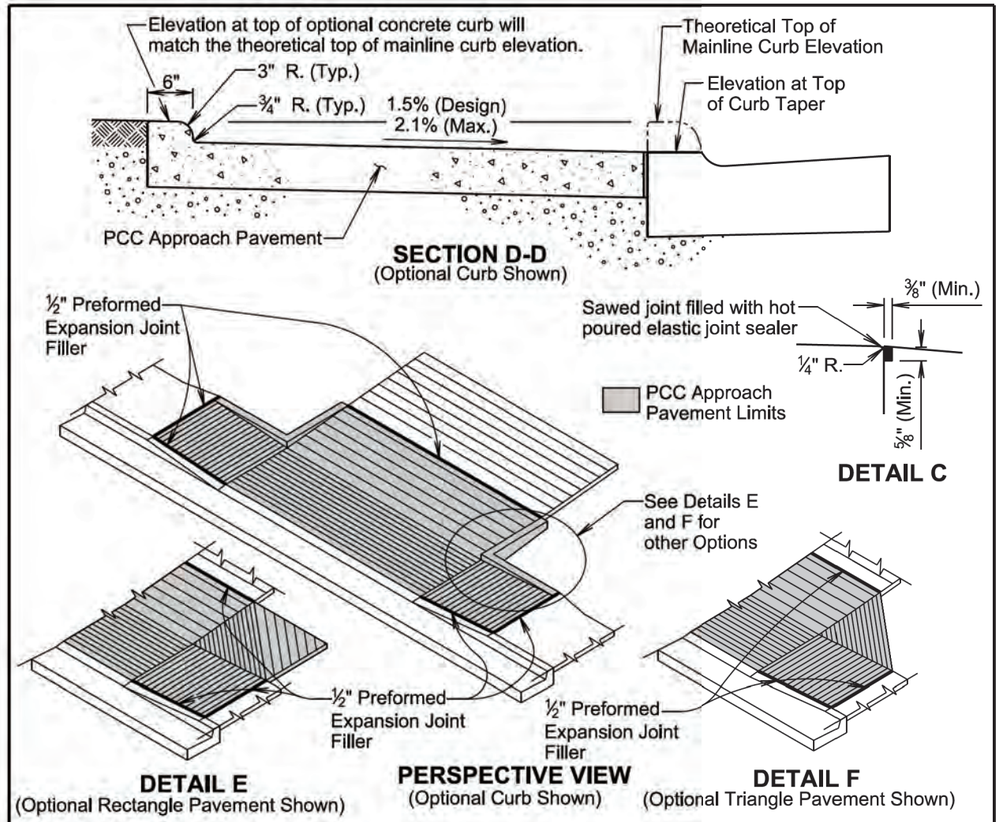
|---|---|---|---|
| Published Date: 2026 | SDDOT | TYPE B PCC APPROACH PAVEMENT | PLATE NUMBER 380.41 Sheet 1 of 2 |




**SECTION D-D**
(Optional Curb Shown)




**DETAIL C**

**DETAIL E**
(Optional Rectangle Pavement Shown)

**PERSPECTIVE VIEW**
(Optional Curb Shown)

**DETAIL F**
(Optional Triangle Pavement Shown)

**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 8, 2025

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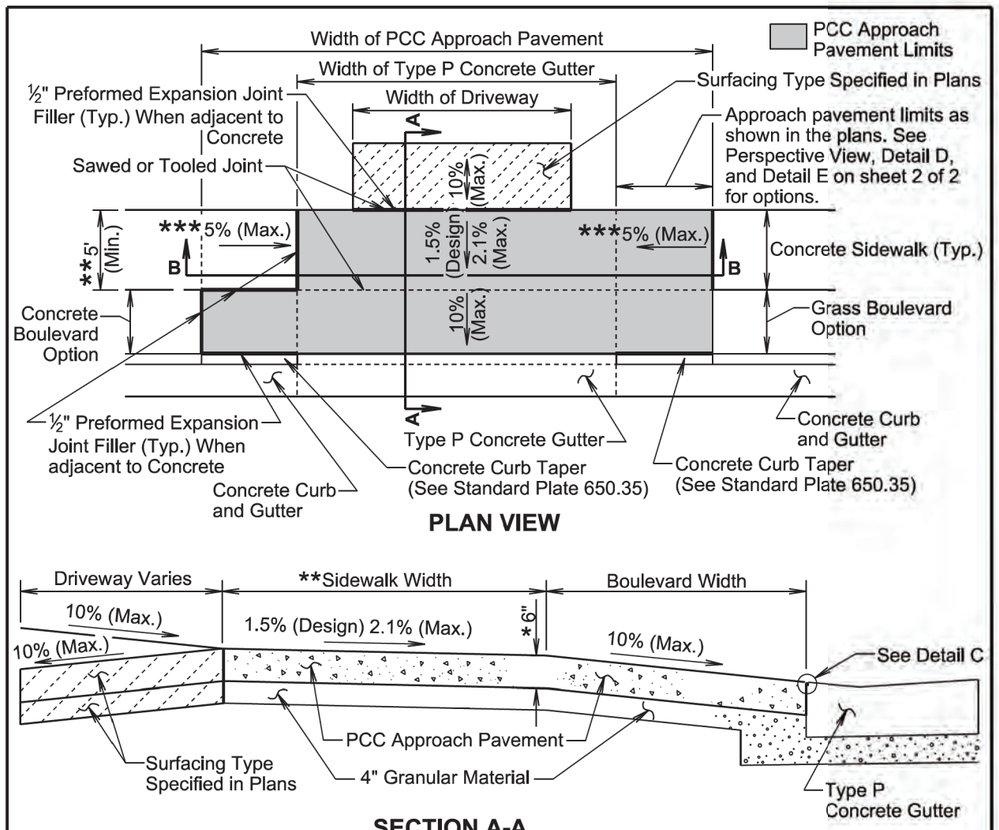
| Published Date: 2026 | SDDOT | TYPE B PCC APPROACH PAVEMENT | PLATE NUMBER 380.41 Sheet 2 of 2 |



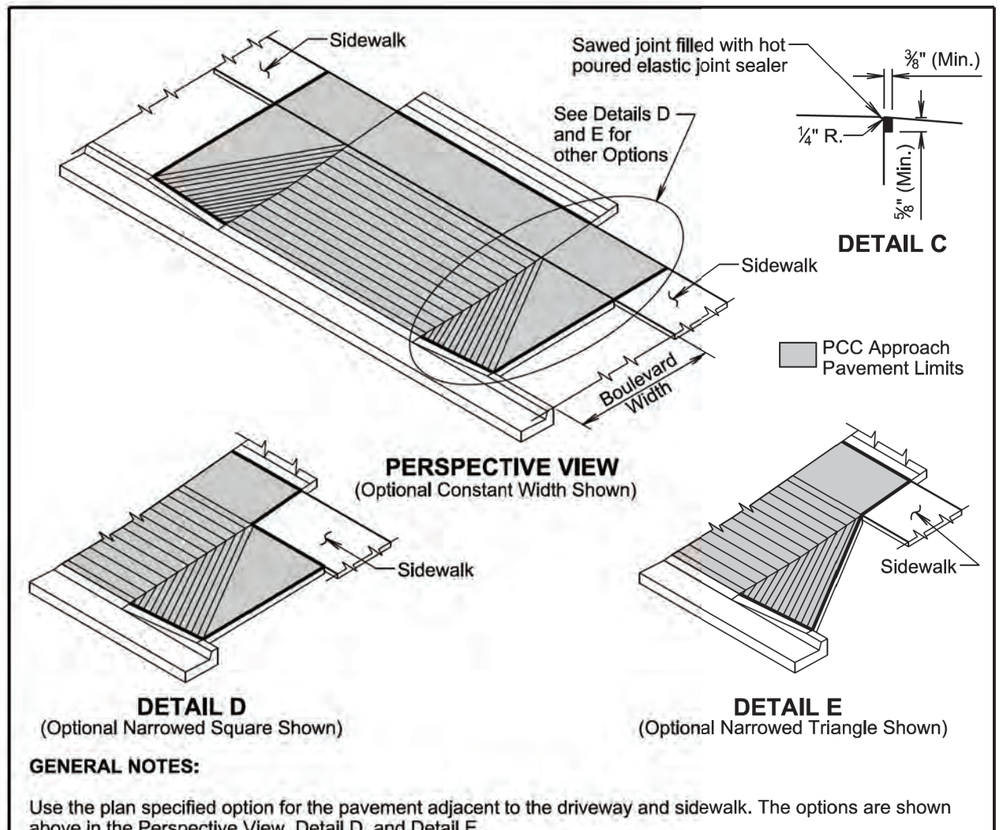

* 8 inches at Commercial Approaches

** 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 C PCC approach pavement or sidewalk in these areas will be 5% maximum where boulevard width is less than 5'-0" or to provide a smooth connection to a lower driveway. Otherwise this area should match the slope of the adjacent sidewalk.

*April 8, 2025*

| | | | |
|---|---|---|---|
| *Published Date: 2026* | SDDOT | **TYPE C PCC APPROACH PAVEMENT** | PLATE NUMBER 380.42 |
| | | | 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 D, and Detail E.

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

1/2" Preformed expansion joint filer will be provided around the approach pavement where adjacent to other concrete, except P gutter.

Contraction joints in the type C 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.
One joint at the center of the boulevard parallel to the gutter for boulevard widths greater than 12 feet.

All costs for furnishing and placing the type C 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 8, 2025*

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|---|---|---|---|
| *Published Date: 2026* | SDDOT | **TYPE C PCC APPROACH PAVEMENT** | PLATE NUMBER 380.42 |
| | | | Sheet 2 of 2 |

Plotting Date: 3/12/2026

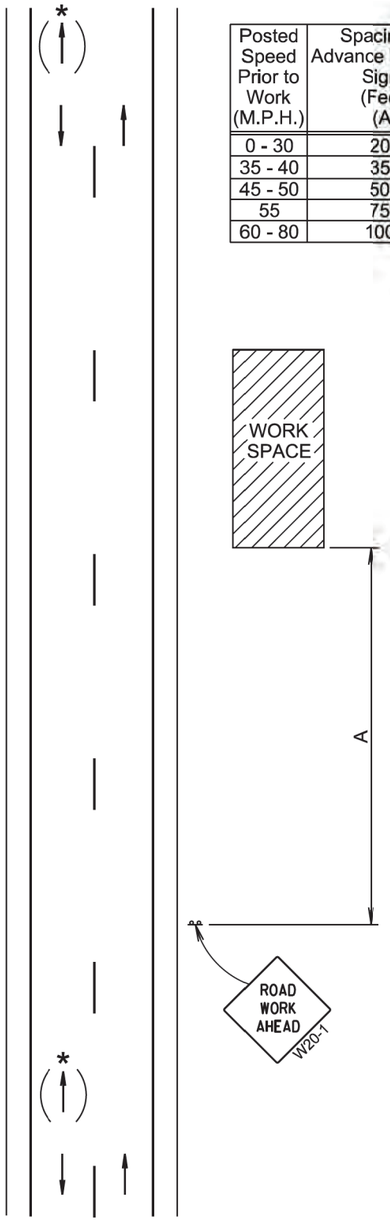
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

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

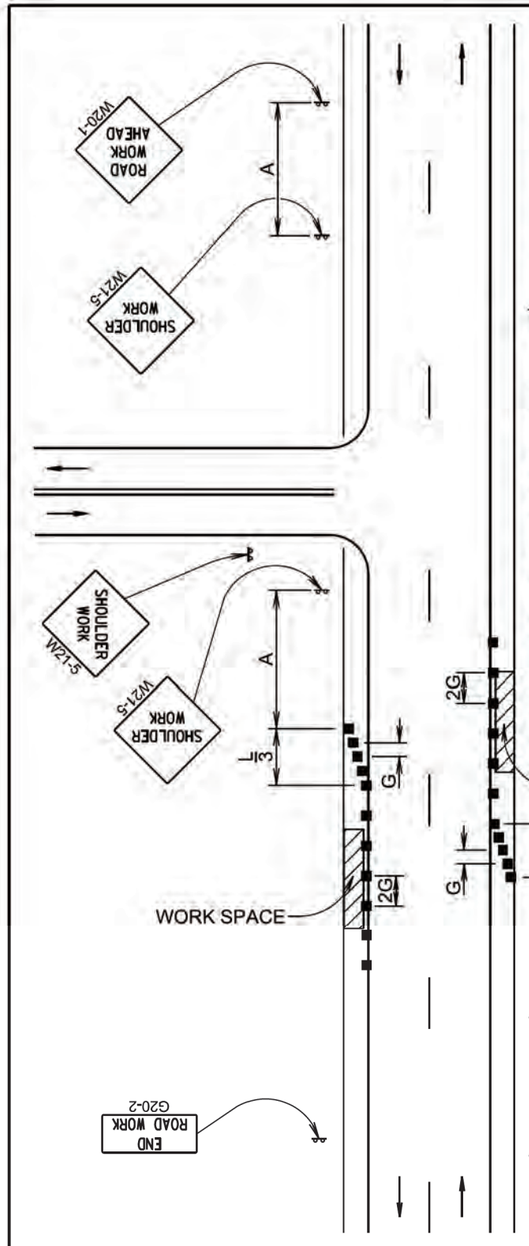
Published Date: 2026

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

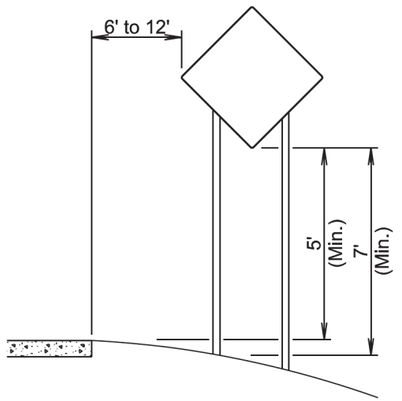
Published Date: 2026

SDDOT

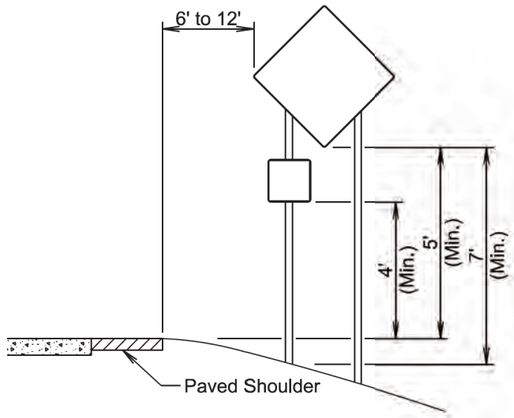
WORK ON SHOULDERS

PLATE NUMBER 634.03

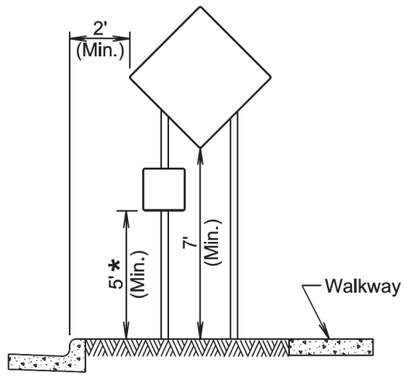
Sheet 1 of 1



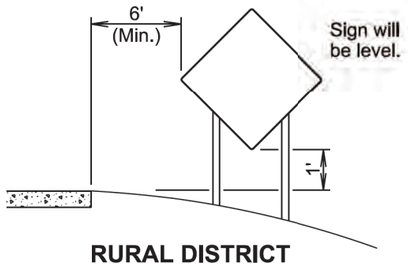

**RURAL DISTRICT**




**RURAL DISTRICT WITH SUPPLEMENTAL PLATE**




**URBAN DISTRICT**

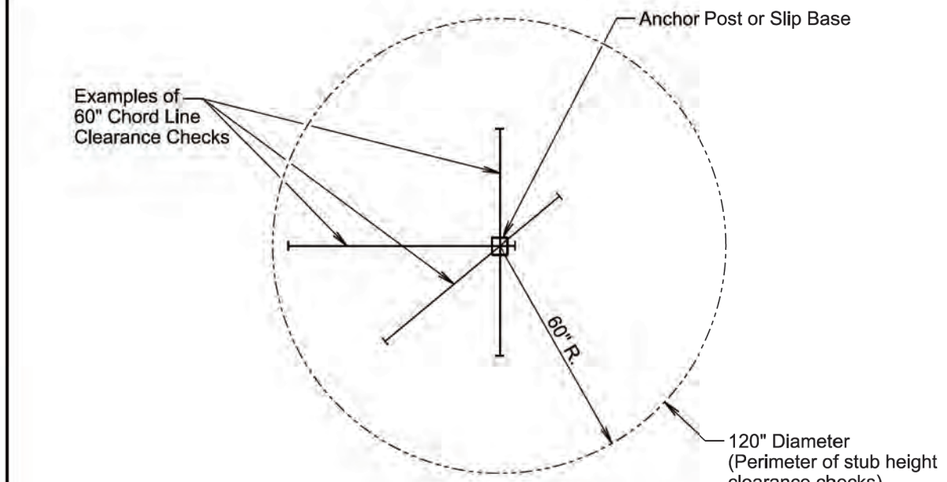



**RURAL DISTRICT**
**3 DAY MAXIMUM**
(Not applicable to regulatory signs)

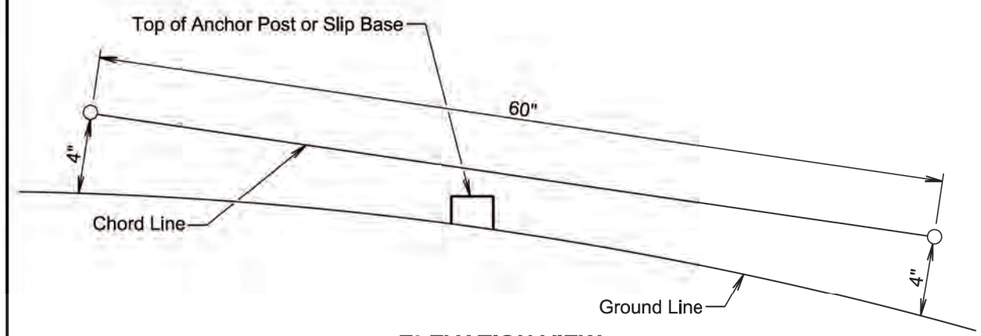
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

| Published Date: 2026 | 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:**

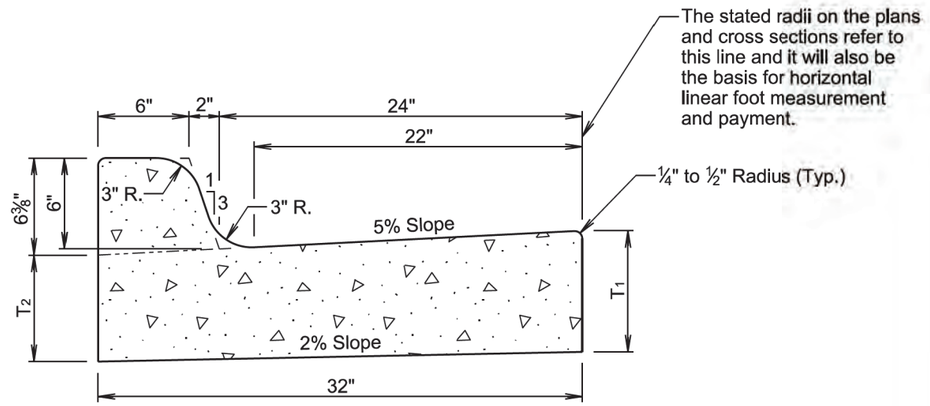
The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

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: 2026 | SDDOT | BREAKAWAY SUPPORT STUB CLEARANCE | PLATE NUMBER 634.99 |
|---|---|---|---|
| | | | Sheet 1 of 1 |




| TYPE B CONCRETE CURB AND GUTTER | | | | |
|---|---|---|---|---|
| Type | $T_1$ (Inches) | $T_2$ (Inches) | Cu. Yd. Per Lin. Ft. | Lin. Ft. Per Cu. Yd. |
| B66 | 6 | 5 1/16 | 0.057 | 17.7 |
| B67 | 7 | 6 1/16 | 0.065 | 15.4 |
| B68 | 8 | 7 1/16 | 0.073 | 13.7 |
| B68.5 | 8.5 | 7 9/16 | 0.077 | 13.0 |
| B69 | 9 | 8 1/16 | 0.081 | 12.3 |
| B69.5 | 9.5 | 8 9/16 | 0.085 | 11.7 |
| B610 | 10 | 9 1/16 | 0.090 | 11.2 |
| B610.5 | 10.5 | 9 9/16 | 0.094 | 10.7 |
| B611 | 11 | 10 1/16 | 0.098 | 10.2 |
| B611.5 | 11.5 | 10 9/16 | 0.102 | 9.8 |
| B612 | 12 | 11 1/16 | 0.106 | 9.4 |

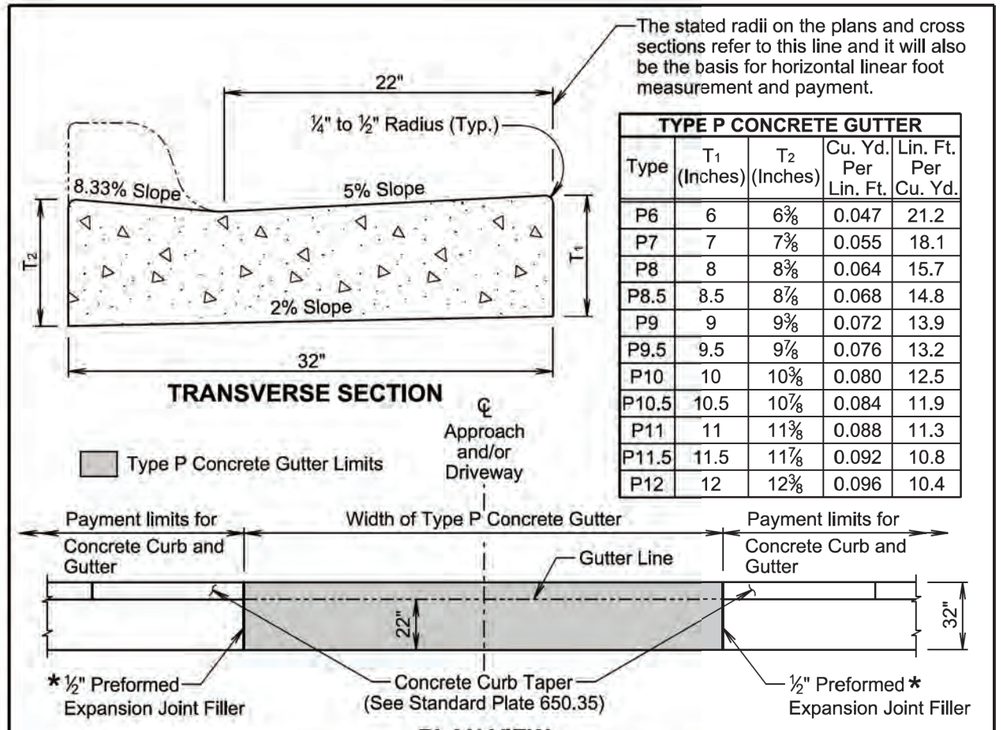
**GENERAL NOTES:**

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: 2026* | SDDOT | TYPE B CONCRETE CURB AND GUTTER | PLATE NUMBER 650.01 |
| | | | 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 | 6⅜ | 0.047 | 21.2 |
| P7 | 7 | 7⅜ | 0.055 | 18.1 |
| P8 | 8 | 8⅜ | 0.064 | 15.7 |
| P8.5 | 8.5 | 8⅞ | 0.068 | 14.8 |
| P9 | 9 | 9⅜ | 0.072 | 13.9 |
| P9.5 | 9.5 | 9⅞ | 0.076 | 13.2 |
| P10 | 10 | 10⅜ | 0.080 | 12.5 |
| P10.5 | 10.5 | 10⅞ | 0.084 | 11.9 |
| P11 | 11 | 11⅜ | 0.088 | 11.3 |
| P11.5 | 11.5 | 11⅞ | 0.092 | 10.8 |
| P12 | 12 | 12⅜ | 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.

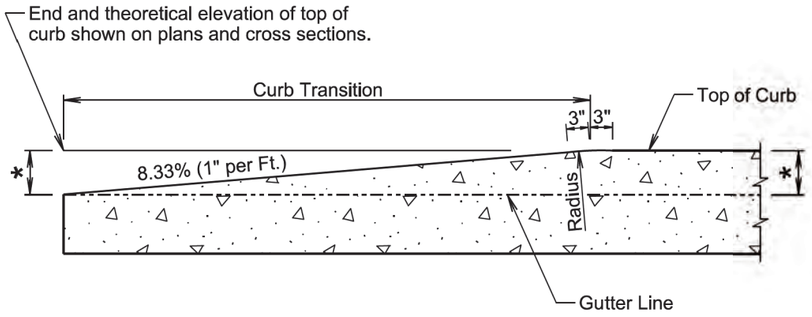
Transverse contraction joints will be constructed at 10-foot intervals in the concrete gutter except when concrete gutter is constructed adjacent to mainline PCC pavement. When concrete gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint will be constructed in the 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: 2026* | SDDOT | TYPE P CONCRETE GUTTER | PLATE NUMBER 650.30 |
| | | | Sheet 1 of 1 |

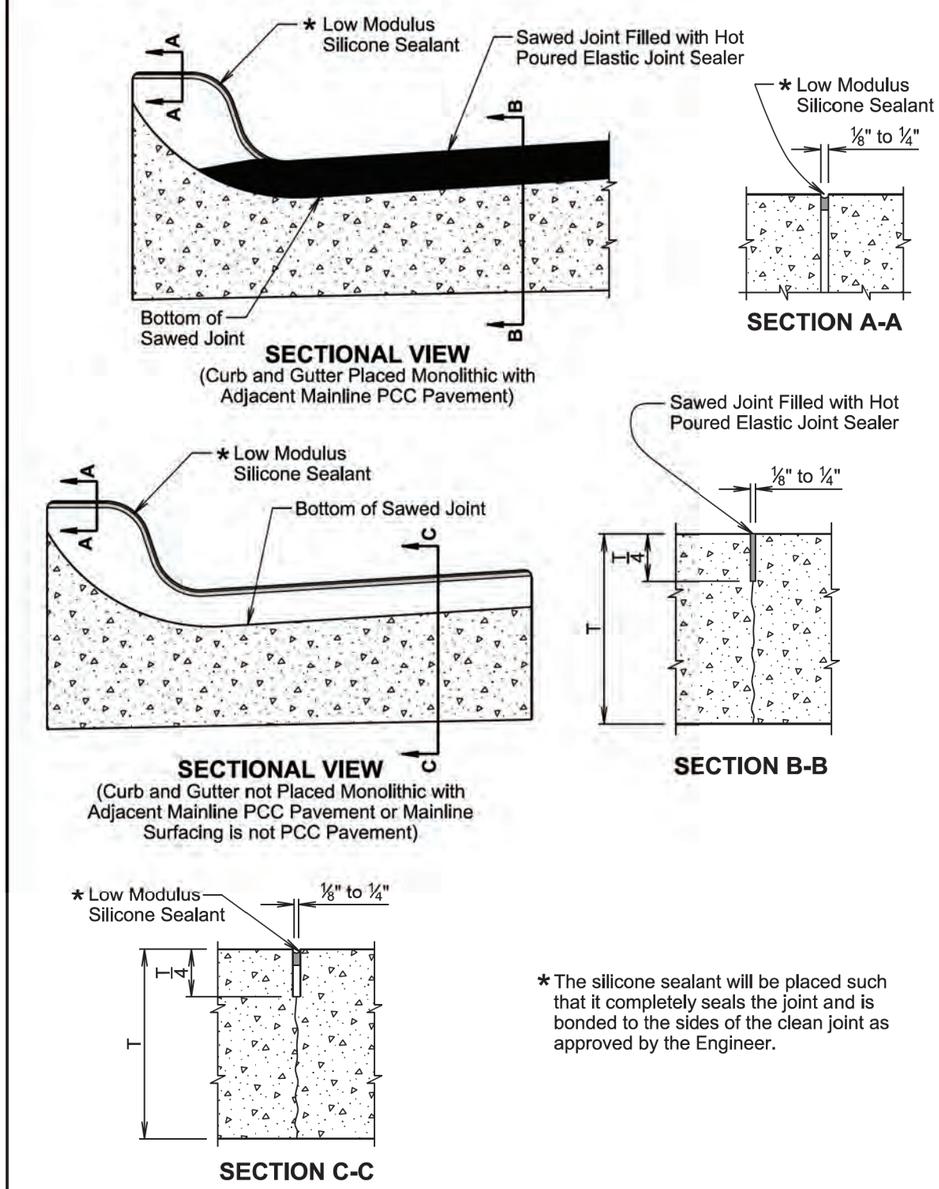



* Height of Curb

**LONGITUDINAL SECTION**
(Concrete Curb Taper)

December 23, 2019

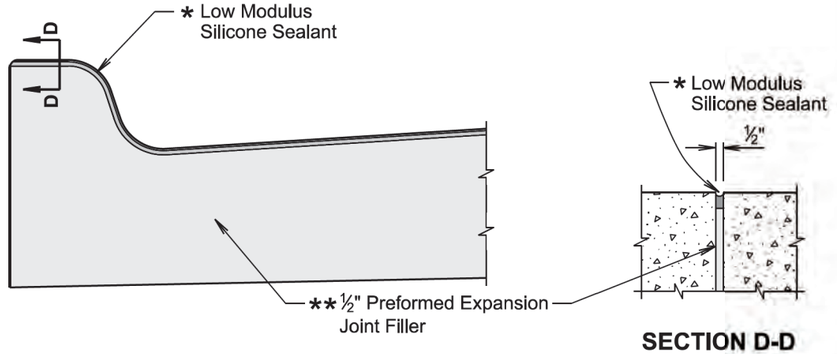
| | | | |
|---|---|---|---|
| Published Date: 2026 | SDDOT | CONCRETE CURB TAPER | PLATE NUMBER 650.35<br>Sheet 1 of 1 |




* 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: 2026 | SDDOT | JOINTS IN CONCRETE CURB AND GUTTER | PLATE NUMBER 650.90<br>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.

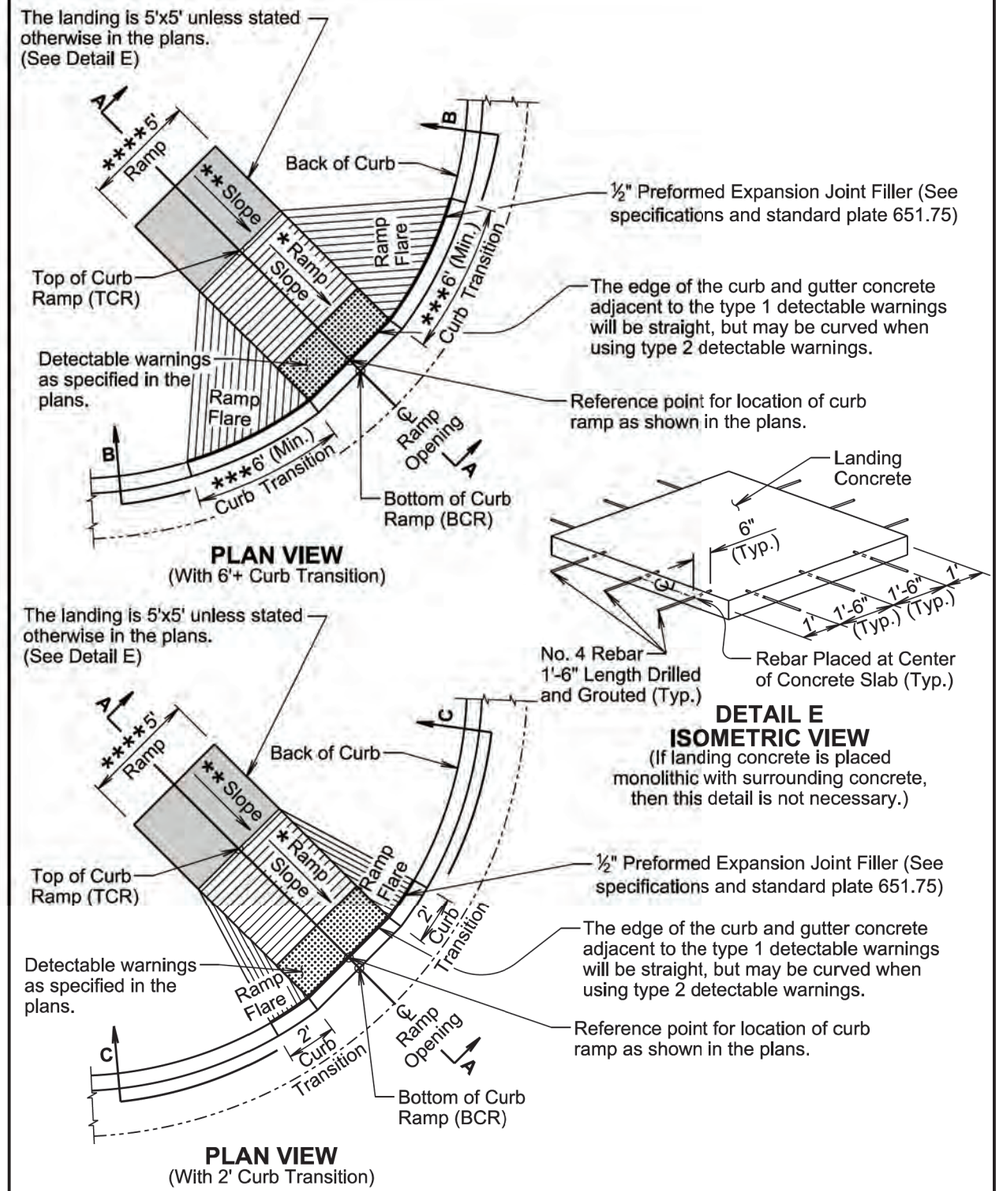
At each junction between new curb and gutter and existing curb and gutter.

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: 2026 | SDDOT | JOINTS IN CONCRETE CURB AND GUTTER | PLATE NUMBER 650.90 |
|---|---|---|---|
| | | | Sheet 2 of 2 |




**PLAN VIEW**
(With 6'+ Curb Transition)




**DETAIL E**
**ISOMETRIC VIEW**
(If landing concrete is placed monolithic with surrounding concrete, then this detail is not necessary.)

**PLAN VIEW**
(With 2' Curb Transition)

April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP) | PLATE NUMBER 651.01 |
|---|---|---|---|
| | | | Sheet 1 of 3 |

* Curb ramp slopes are designed at 7.5% unless stated otherwise in the plans. The curb ramp may have a maximum slope of 8.3% and will not exceed 15' in length unless stated otherwise in the plans.

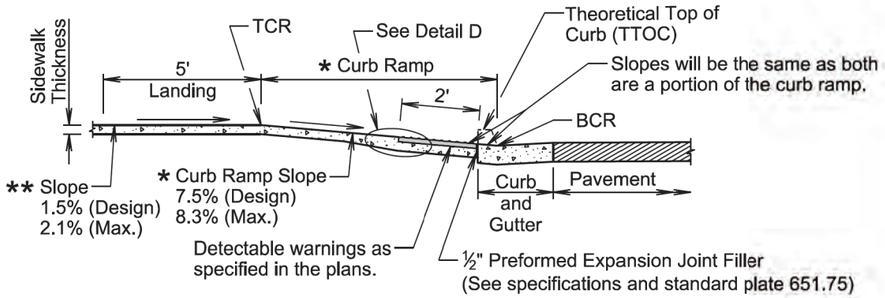
The curb ramp length may be computed based on the intersection of a continuous 1.5% theoretical slope from theoretical top of curb (TTOC) with the curb ramp using a continuous 7.5% curb ramp slope. The elevation of point TCR will always be higher than the elevation of point TTOC unless specified otherwise in the plans. The curb ramp length dimension as shown in the plans will be adjusted as necessary to meet all slope and length requirements based on field geometrics.

The cross slope of the ramp will not be steeper than 2.1%. Plans are designed using a 1.5% slope unless stated otherwise in the plans.

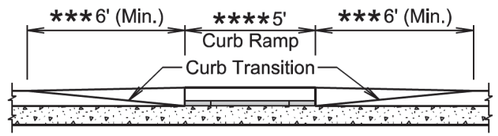
** The slope in the landing will not be steeper than 2.1% in any direction of pedestrian travel. Plans are designed using a 1.5% slope unless stated otherwise in the plans.

*** The curb transition will be a minimum of 6' long, a maximum of 10' long, and the curb transition slope will not be steeper than 10% unless stated otherwise in the plans. The curb transition length will be adjusted as necessary to meet slope and length requirements based on field geometrics.

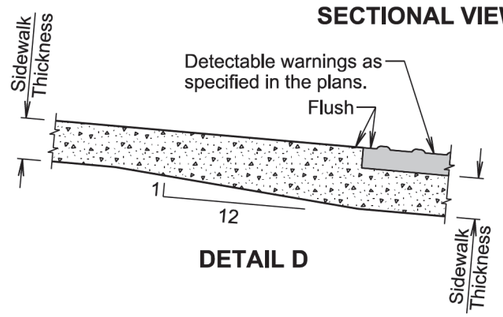
**** The ramp width is 5' unless stated otherwise in the plans.



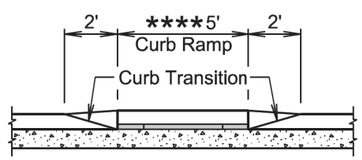

**SECTION A-A**




**SECTIONAL VIEW B-B**




**DETAIL D**




**SECTIONAL VIEW C-C**

April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP) | PLATE NUMBER 651.01 |
|---|---|---|---|
| | | | Sheet 2 of 3 |

**GENERAL NOTES:**

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, PCC fillet sections are shown in the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section or curb and gutter.

The curb ramp will be placed at the location stated in the plans.

Sidewalk will not be placed adjacent to the curb ramp flares when a 2-foot curb transition is used unless shown otherwise in the plans.

* Care will be taken to ensure a uniform grade on the curb ramp, free of sags and short grade changes.

Surface texture of the curb ramp will be obtained by coarse brooming transverse to the slope of the curb ramp.

The normal gutter line profile will be maintained through the area of the ramp opening.

Joints will be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care will be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings will be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings will be incidental to the corresponding detectable warning contract item.

There will be no separate payment for curb ramps. The curb ramp will be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk contract item. The square foot area of the detectable warnings will be included in the measured and paid for quantity of sidewalk.

If rebar is placed in the landing as depicted in detail E, the cost of the materials, labor, and equipment to furnish and install the rebar will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk contract item.

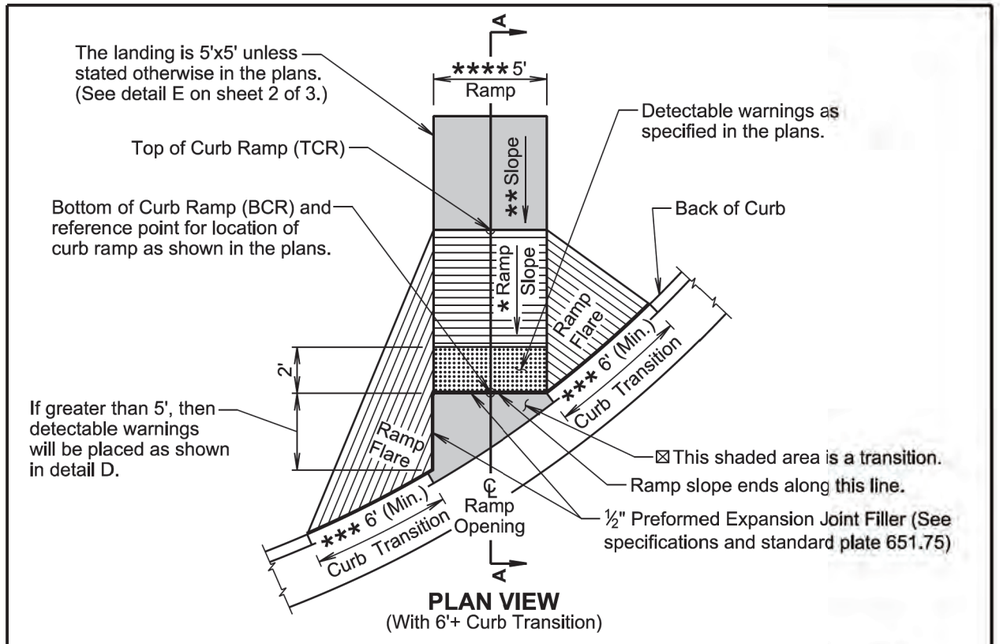
The curb transitions and ramp opening will be measured and paid for at the contract unit price per foot for the corresponding curb and gutter contract item when curb and gutter is used. The curb transitions and ramp opening will be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section contract item when a PCC fillet section is used.

Type 1 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 1 detectable warnings including labor, equipment, materials, and incidentals will be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

Type 2 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding will be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

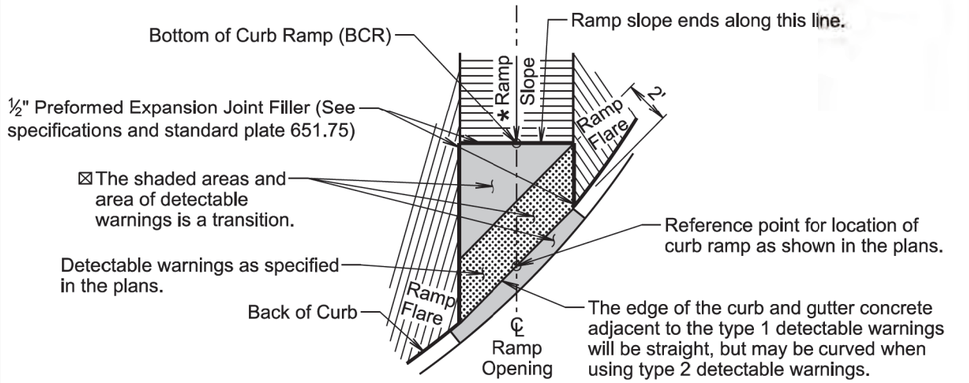
April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP) | PLATE NUMBER 651.01 |
|---|---|---|---|
| | | | Sheet 3 of 3 |




⊠The slope within the transition area will not be steeper than 5%. The concrete within the transition will be placed monolithic with the curb and gutter or fillet section concrete. The concrete thickness within the transition will be the same as the curb and gutter or fillet section concrete thickness.

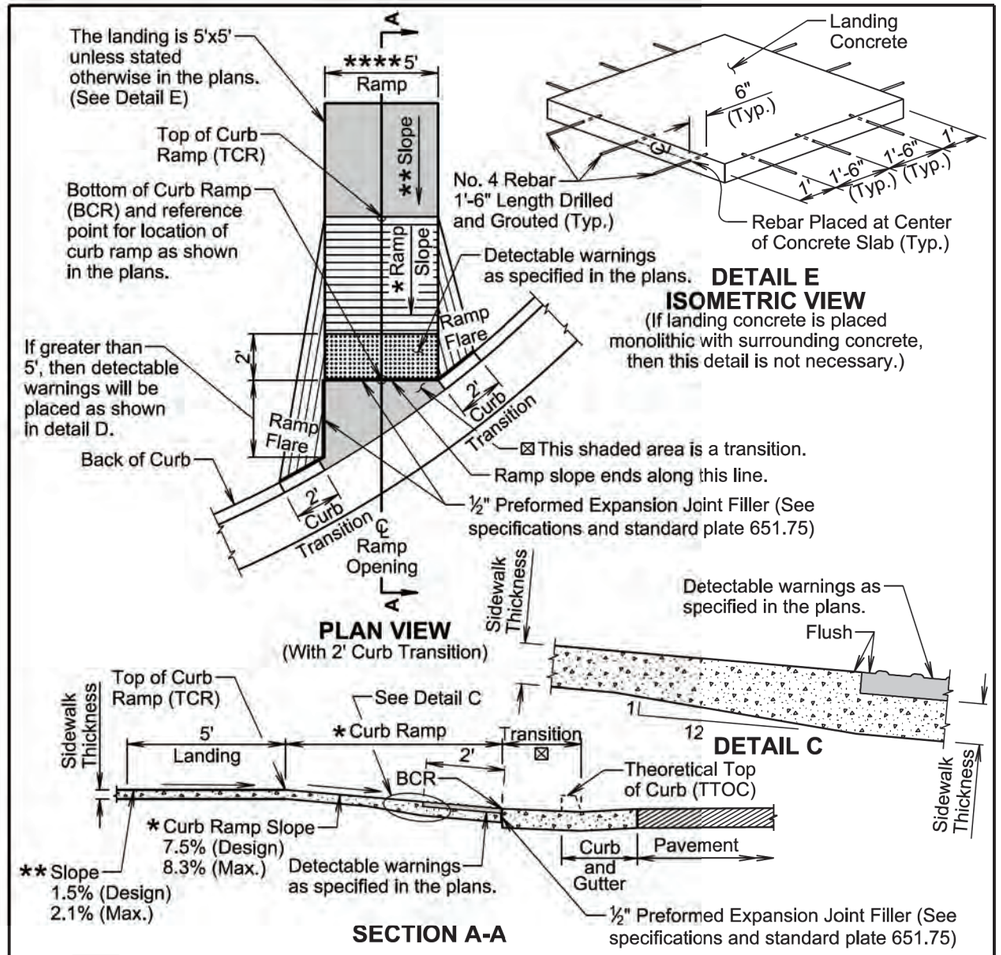
*** The curb transition will be a minimum of 6' long, a maximum of 10' long, and the curb transition slope will not be steeper than 10% unless stated otherwise in the plans. The curb transition length will be adjusted as necessary to meet slope and length requirements based on field geometrics.




**DETAIL D**

April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP) | PLATE NUMBER 651.02 Sheet 1 of 3 |
|---|---|---|---|




* Curb ramp slopes are designed at 7.5% unless stated otherwise in the plans. The curb ramp may have a maximum slope of 8.3% and will not exceed 15' in length unless stated otherwise in the plans.

The elevation of point TCR will always be higher than the elevation of point TTOC unless specified otherwise in the plans. The curb ramp length dimension as shown in the plans will be adjusted as necessary to meet all slope and length requirements based on field geometrics.

The cross slope of the ramp will not be steeper than 2.1%. Plans are designed using a 1.5% slope unless stated otherwise in the plans.

** The slope in the landing will not be steeper than 2.1% in any direction of pedestrian travel. Plans are designed using a 1.5% slope unless stated otherwise in the plans.

**** The ramp width is 5' unless stated otherwise in the plans.

April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP) | PLATE NUMBER 651.02 Sheet 2 of 3 |
|---|---|---|---|

**GENERAL NOTES:**

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

The curb ramp depicted on this standard plate may be used with a PCC fillet section or curb and gutter. The curb ramp will be placed at the location stated in the plans.

Sidewalk will not be placed adjacent to the curb ramp flares when a 2-foot curb transition is used unless shown otherwise in the plans.

* Care will be taken to ensure a uniform grade on the curb ramp, free of sags and short grade changes.

Surface texture of the curb ramp will be obtained by coarse brooming transverse to the slope of the curb ramp.

The normal gutter line profile will be maintained through the area of the ramp opening.

Joints will be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care will be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings will be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings will be incidental to the corresponding detectable warning contract item.

There will be no separate payment for curb ramps. The curb ramp will be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk contract item. The square foot area of the detectable warnings will be included in the measured and paid for quantity of sidewalk.

If rebar is placed in the landing as depicted in DETAIL E, the cost of the materials, labor, and equipment to furnish and install the rebar will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk contract item.

The curb transitions and ramp opening will be measured and paid for at the contract unit price per foot for the corresponding curb and gutter contract item when curb and gutter is used. The curb transitions and ramp opening will be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section contract item when a PCC fillet section is used.

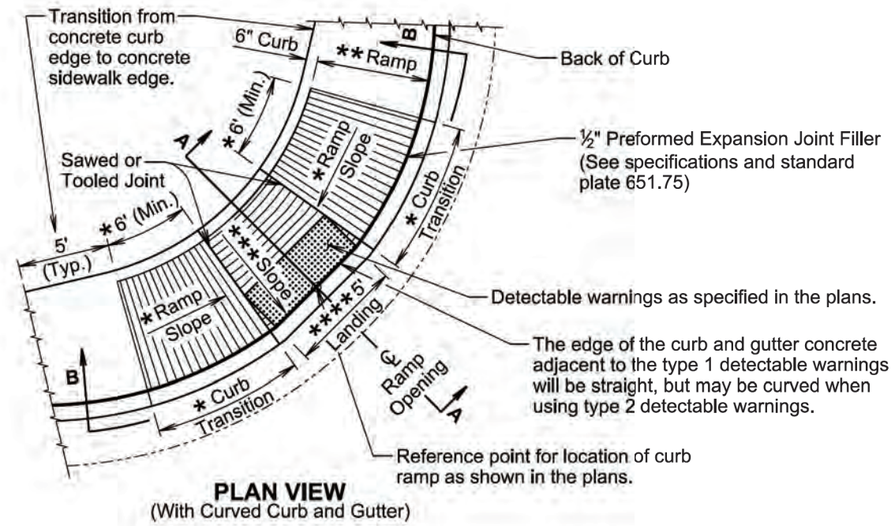
All costs for furnishing and installing the transition area at the base of the curb ramp will be incidental to the contract unit price per foot for the corresponding curb and gutter contract item when curb and gutter is used and will be incidental to the contract unit price per square yard for the corresponding PCC fillet section contract item when a PCC fillet section is used.

Type 1 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 1 detectable warnings including labor, equipment, materials, and incidentals will be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

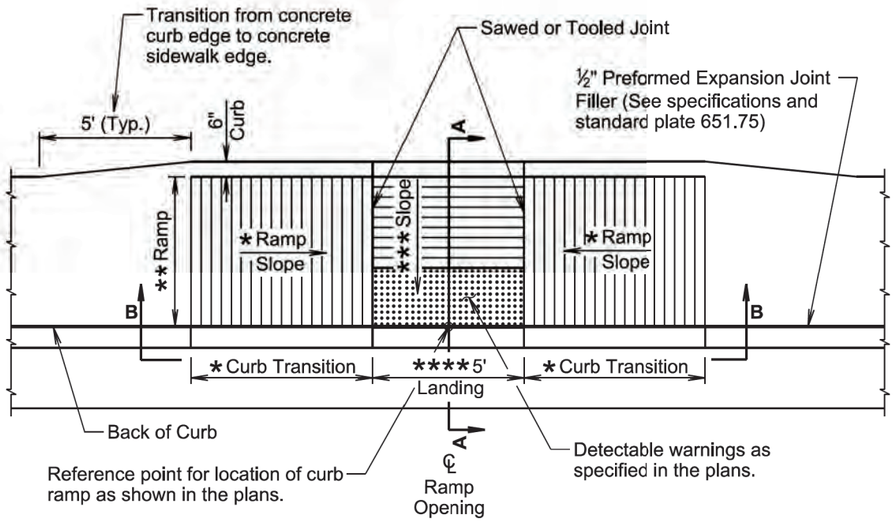
Type 2 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding will be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP) | PLATE NUMBER 651.02 |
|---|---|---|---|
| | | | Sheet 3 of 3 |




**PLAN VIEW**
(With Curved Curb and Gutter)




**PLAN VIEW**
(With Straight Curb and Gutter)

April 8, 2025

| Published Date: 2026 | SDDOT | TYPE 3 CURB RAMP (PARALLEL CURB RAMP) | PLATE NUMBER 651.03 |
|---|---|---|---|
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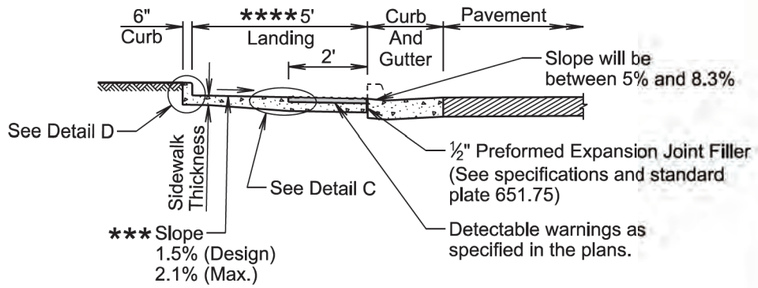
* The curb transition slope will match the curb ramp slope. Curb ramp slopes are designed at 7.5% unless stated otherwise in the plans. The curb ramp may have a maximum slope of 8.3% at any location of the curb ramp and will not exceed 15' in length unless stated otherwise in the plans. The curb transitions and curb ramp lengths will be adjusted as necessary to meet all slope and length requirements based on field geometrics.

** The cross slope of the ramp will not be steeper than 2.1% and the ramp width is 5' unless stated otherwise in the plans. Plans are designed using a 1.5% cross slope for the ramp unless stated otherwise in the plans.

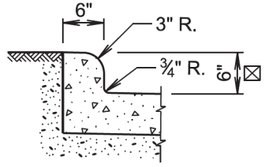
*** The slope in the landing will not be steeper than 2.1% in any direction of pedestrian travel. Plans are designed using a 1.5% slope unless stated otherwise in the plans.

**** The landing is 5'x5' unless stated otherwise in the plans.

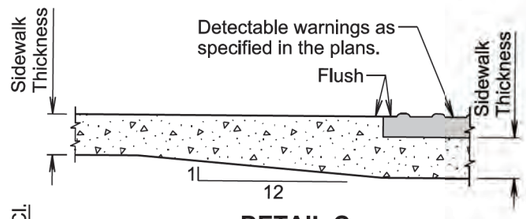
☒ The curb height will be 6" unless stated otherwise in the plans.



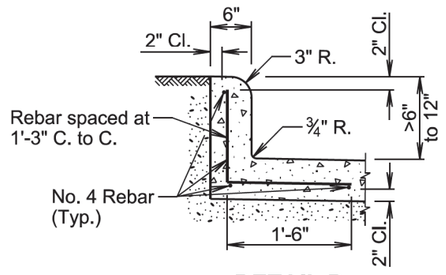

**SECTION A-A**



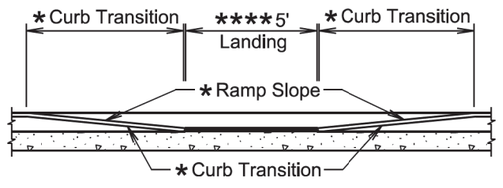

**DETAIL D**




**DETAIL C**




**DETAIL D**
(Use this detail when the curb height is greater than 6" and less than 12")




**SECTIONAL VIEW B-B**

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**GENERAL NOTES:**

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

For illustrative purpose only, a PCC fillet section is shown in one of the drawings. The curb ramp depicted on this standard plate may be used with a PCC fillet section or with curb and gutter.

The curb ramp will be placed at the location stated in the plans.

Sidewalk adjacent to the curb ramp will be as shown in the plans.

* Care will be taken to ensure a uniform grade on the curb ramp, free of sags and short grade changes.

Surface texture of the curb ramp will be obtained by coarse brooming transverse to the slope of the curb ramp.

The normal gutter line profile will be maintained through the area of the ramp opening.

Joints will be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking (see plan view for joint location).

Care will be taken to ensure that the surface of the detectable warnings are clean and maintains a uniform color.

The detectable warnings will be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings will be incidental to the corresponding detectable warning contract item.

When curb height is greater than 6" and less than 12", reinforcing steel is required in accordance with the detail on sheet 2 of 3. The reinforcing steel will conform to ASTM A615, Grade 60. Cost for furnishing and installing the reinforcing steel will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk contract item.

There will be no separate payment for curb ramps. The curb ramp will be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk contract item. The square foot area of the detectable warnings and the curb along the short radius will be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening will be measured and paid for at the contract unit price per foot for the corresponding curb and gutter contract item when curb and gutter is used. The curb transitions and ramp opening will be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section contract item when a PCC fillet section is used.

Type 1 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 1 detectable warnings including labor, equipment, materials, and incidentals will be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

Type 2 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding will be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

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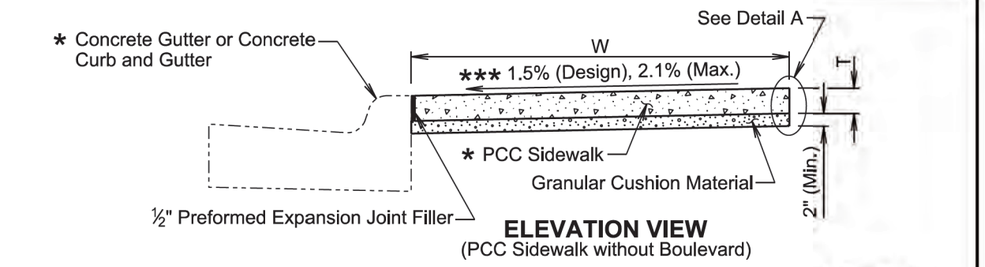
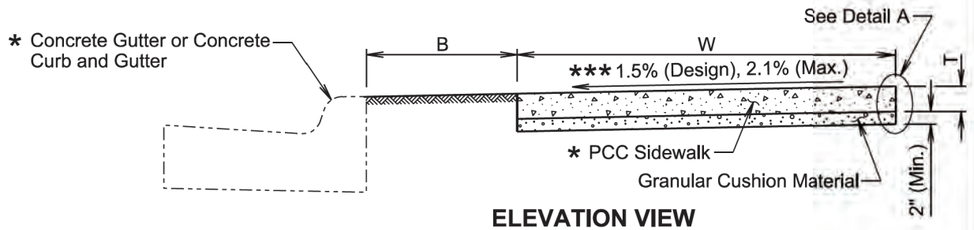



**ELEVATION VIEW**
(PCC Sidewalk without Boulevard)



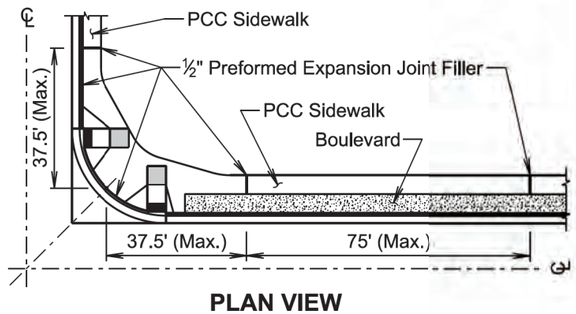

**ELEVATION VIEW**
(PCC Sidewalk with Boulevard)

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.

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|---|---|---|---|
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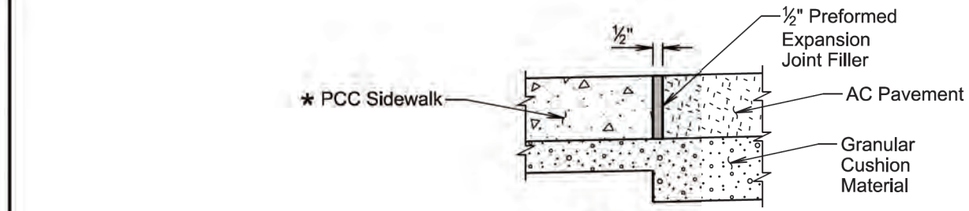
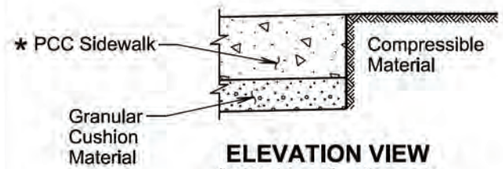
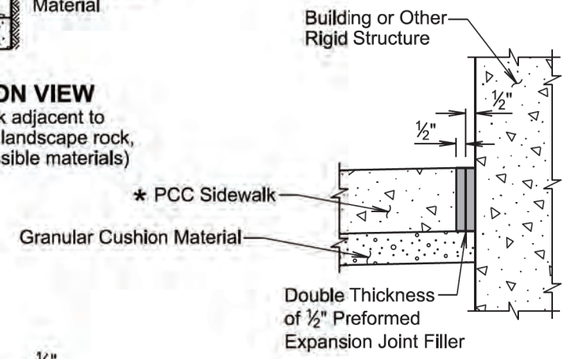


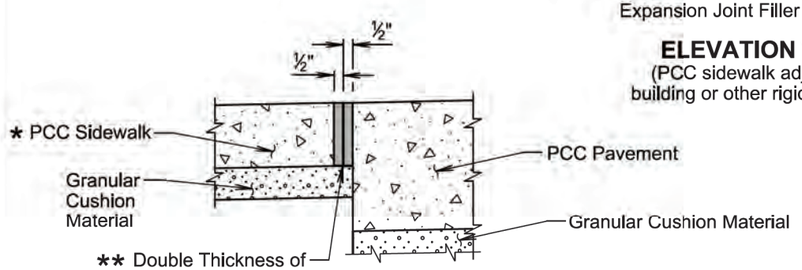

**ELEVATION VIEW**
(PCC sidewalk adjacent to asphalt concrete pavement)




**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

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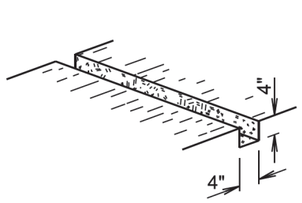
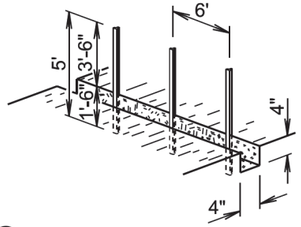
|---|---|---|---|
| | | | Sheet 2 of 2 |

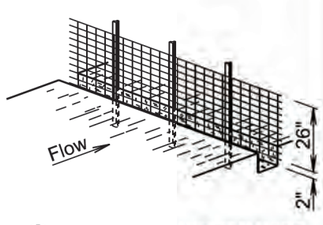
# MANUAL LOW FLOW SILT FENCE INSTALLATION



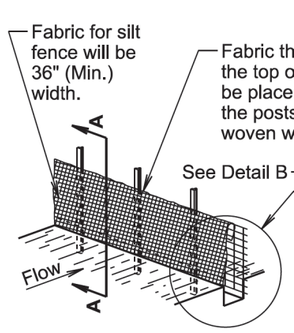

① EXCAVATE TRENCH




② DRIVE STEEL T FENCE POSTS

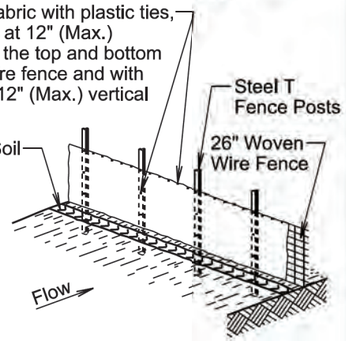



③ ATTACH 26" WOVEN WIRE FENCE TO POSTS

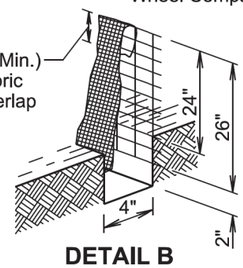



④ ATTACH SILT FENCE FABRIC

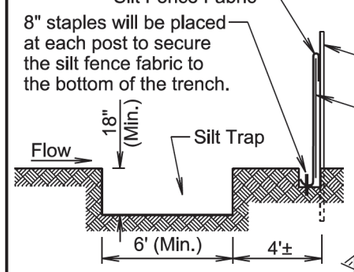
Attach the silt fence fabric with plastic ties, wire ties, or hog rings at 12" (Max.) horizontal spacing on the top and bottom wires of the woven wire fence and with plastic or wire ties at 12" (Max.) vertical spacing on the posts.



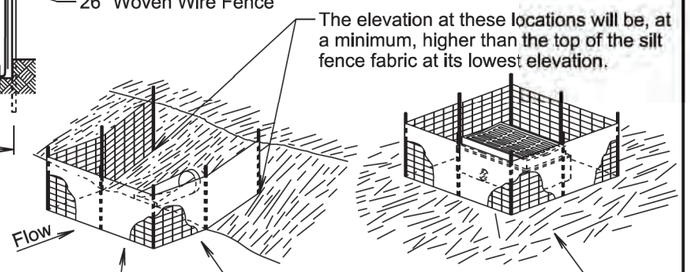

⑤ BACKFILL TRENCH AND WHEEL COMPACT SOIL




DETAIL B




SECTION A-A




The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

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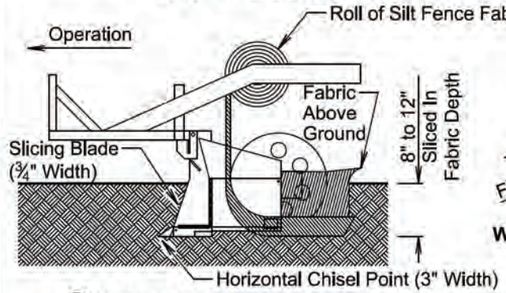
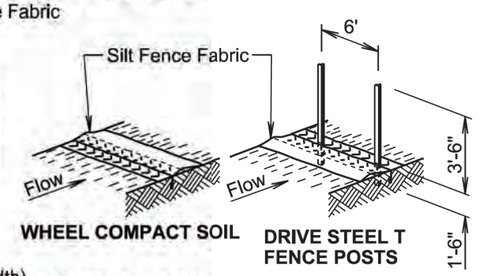
# MACHINE SLICED LOW FLOW SILT FENCE INSTALLATION




① INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.

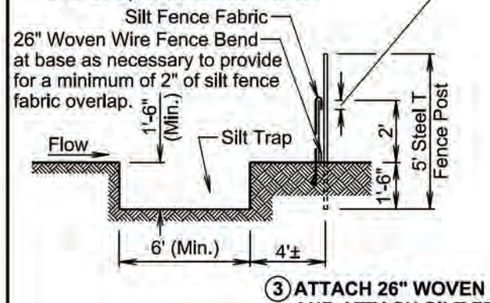



WHEEL COMPACT SOIL

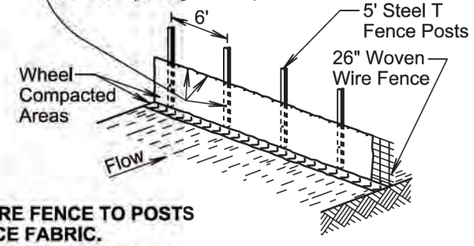
DRIVE STEEL T FENCE POSTS

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

Silt fence fabric will be overlapped a minimum of 2" at top of woven wire fence.

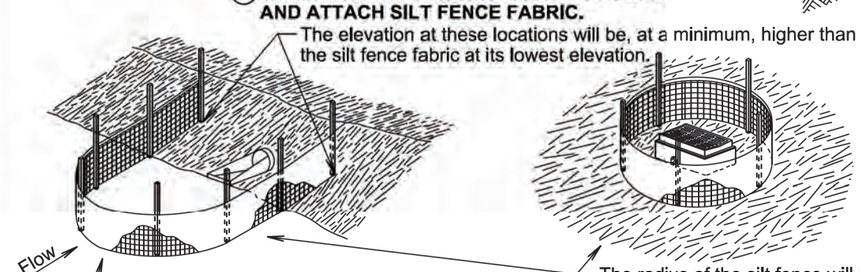



Attach the silt fence fabric with plastic ties, wire ties, or hog rings at 12" (Max.) horizontal spacing on the top and bottom wires of the woven wire fence and with plastic or wire ties at 12" (Max.) vertical spacing on the posts.




③ ATTACH 26" WOVEN WIRE FENCE TO POSTS AND ATTACH SILT FENCE FABRIC.

The elevation at these locations will be, at a minimum, higher than the top of the silt fence fabric at its lowest elevation.




The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

The radius of the silt fence will be the minimum capable by the slicing machine. The post spacing will be 3' for these types of applications of silt fence. All the other components of the silt fence will be the same as shown above.

**GENERAL NOTES:**

A silt trap will be provided when specified by a plan note. All costs for constructing the silt trap will be incidental to the contract unit price per cubic yard for "Silt Trap".

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.

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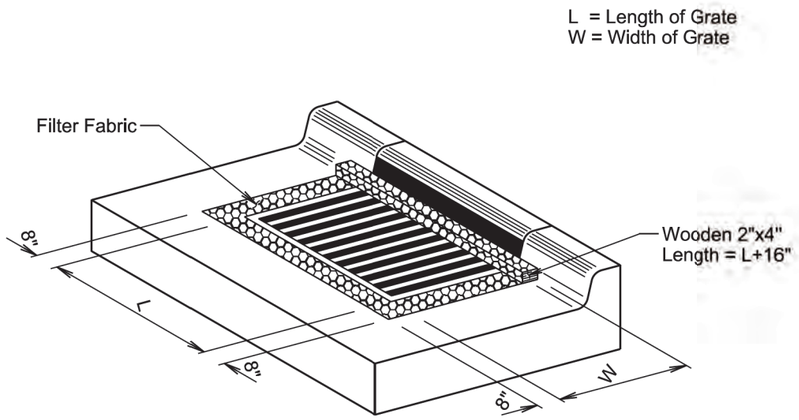
|---|---|---|---|
| | | | Sheet 2 of 2 |

Plotting Date: 3/12/2026




**ISOMETRIC VIEW**

**GENERAL NOTES:**

The grate and curb and gutter shown are for illustrative purposes only.

The sediment control at inlet with frame and grate will be placed at locations stated in the plans or at locations determined by the Engineer.

The filter fabric will be the type specified in the plans.

The filter fabric will be placed in the inlet opening prior to placing the grate. Approximately 18 inches of excess filter fabric will be wrapped around the 2"x4" and stapled securely to the 2"x4" after the grate has been placed.

The Contractor and Engineer will inspect the sediment control device in accordance with the storm water permit. The Contractor will maintain the sediment control device by removing accumulated sediment and replacing torn filter fabric with new filter fabric.

The removed sediment will be placed at a location away from the drop inlet where the sediment will not be washed back into the drop inlet or other storm sewer system.

All costs for furnishing, installing, inspecting, maintaining, removing, and replacing the sediment control device at the inlet including labor, equipment, and materials will be incidental to the contract unit price per each for "Sediment Control at Inlet with Frame and Grate".

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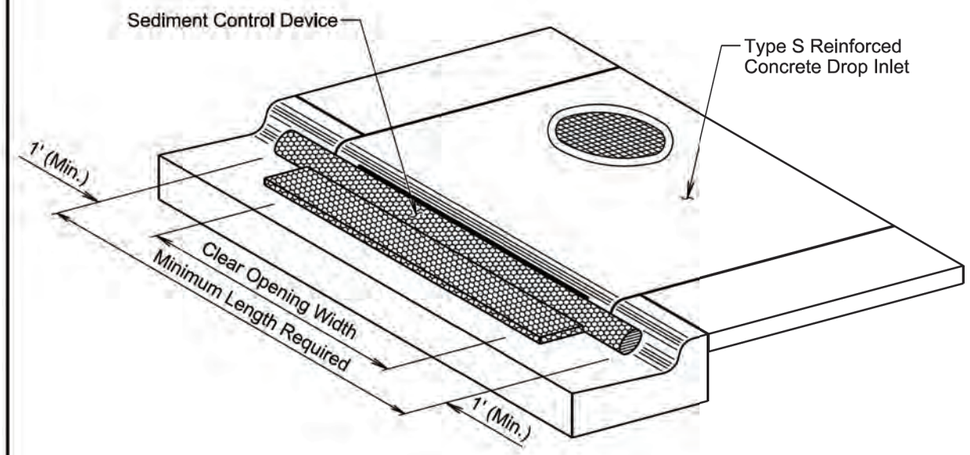
| | | | |
|---|---|---|---|
| Published Date: 2026 | SDDOT | SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES | PLATE NUMBER 734.10<br>Sheet 1 of 1 |




**ISOMETRIC VIEW**

**GENERAL NOTES:**

The type of sediment control device shown is for illustrative purposes only.

The type of sediment control device used will be one of the types as specified in the plans.

The sediment control device will be placed at the drop inlets according to the manufacturer's installation instructions.

The sediment control at inlet for type S reinforced concrete drop inlet will be placed at locations stated in the plans or at locations determined by the Engineer.

The Contractor and Engineer will inspect the sediment control device in accordance with the storm water permit. The Contractor will maintain the sediment control device by removing the device, removing accumulated sediment, and resetting the device.

The removed sediment will be placed at a location away from the drop inlet where the sediment will not be washed back into the drop inlet or other storm sewer system.

Payment for the "Sediment Control at Type S Drop Inlet" will be based on the minimum length required at the drop inlets. Some of the sediment control devices specified in the plans will have to be longer due to available length.

All costs for furnishing, installing, inspecting, maintaining, removing, and resetting the sediment control device at the drop inlet including labor, equipment, and materials will be incidental to the contract unit price per foot for "Sediment Control at Type S Reinforced Concrete Drop Inlet".

February 14, 2020

| | | | |
|---|---|---|---|
| Published Date: 2026 | SDDOT | SEDIMENT CONTROL AT INLETS FOR TYPE S REINFORCED CONCRETE DROP INLETS | PLATE NUMBER 734.11<br>Sheet 1 of 1 |