

SECTION B: GRADING PLANS

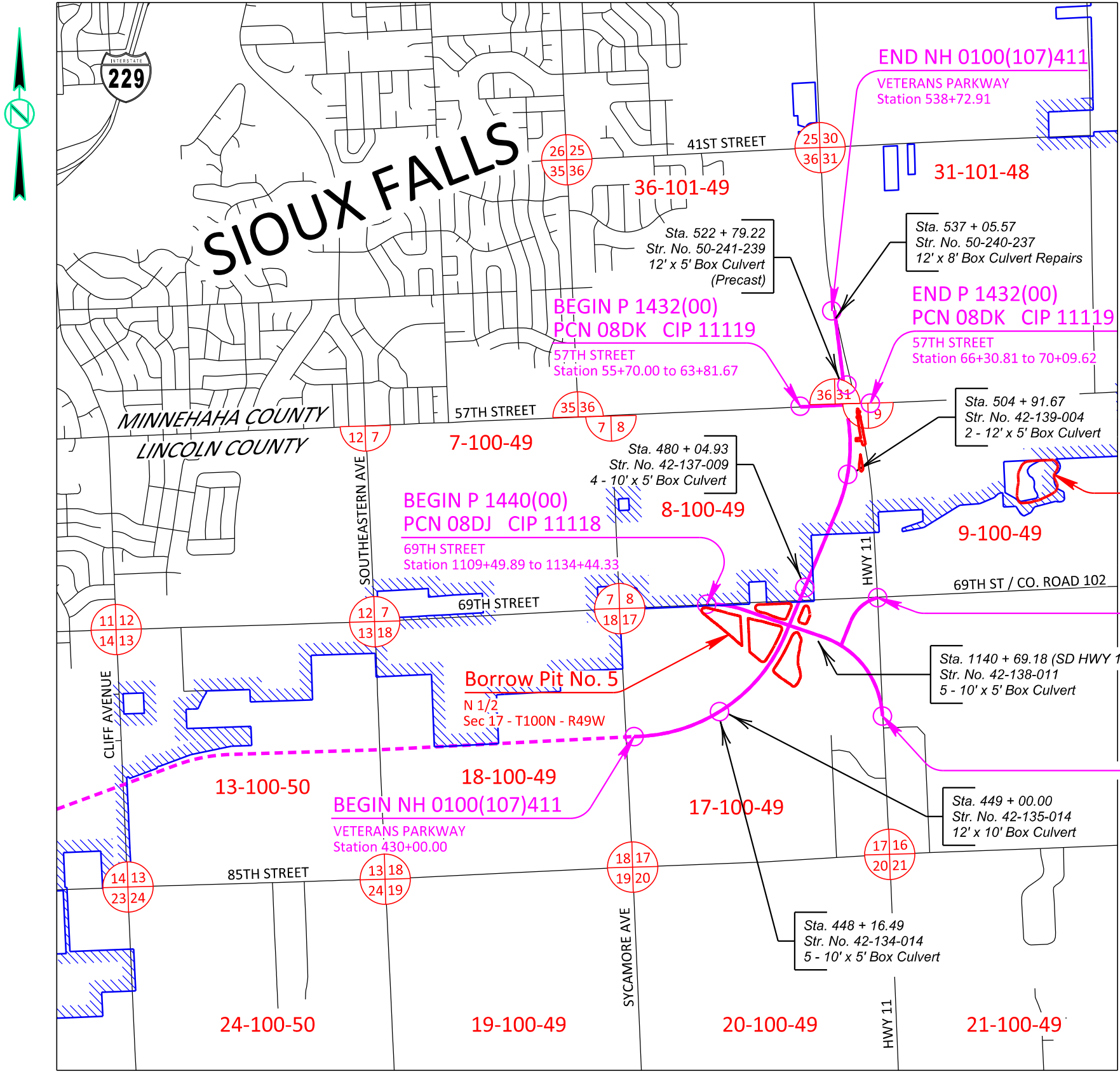
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| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B1    | B174            |

FILE: ...\\Section B\\B01 (Title)  
PLOTING DATE: 05-28-2026  
REV DATE: 04-23-2026  
INITIAL: JHU

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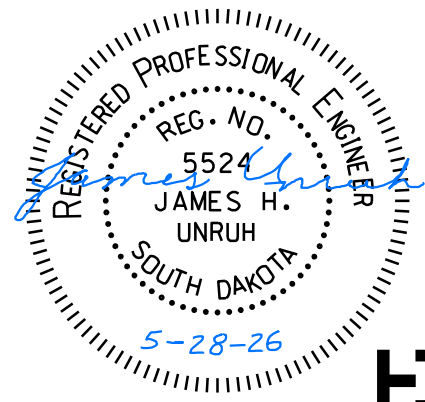


Borrow Pit No. 8  
(Jamison)

SE 1/4  
Sec 9 - T100N - R49W

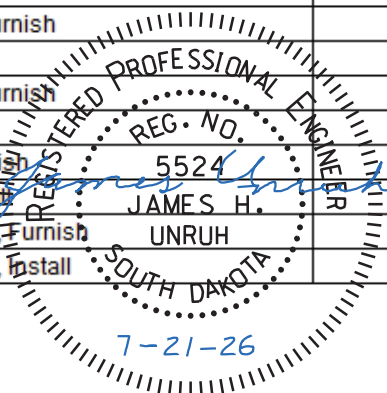
NH 0100(107)411  
PCN 01VA  
69TH STREET / CO. ROAD 102  
Station 901+00.95 to 912+69.05

NH 0100(107)411  
PCN 01VA  
SD HWY 11  
Station 1136+69.40 to 1169+47.00



## SECTION B ESTIMATE OF QUANTITIES

| Bid Item Number | Item                                         | Quantity          |                      |                      |          | Unit |
|-----------------|----------------------------------------------|-------------------|----------------------|----------------------|----------|------|
|                 |                                              | PCN 01VA Veterans | PCN 08DJ 69th Street | PCN 08DK 57th Street | Total    |      |
| 009E0010        | Mobilization                                 | Lump Sum          | Lump Sum             | Lump Sum             | Lump Sum | LS   |
| 009E3220        | Reestablish Right-of-Way and Property Corner | 115               | -                    | -                    | 115      | Each |
| 009E3225        | Reestablish Public Land Survey System Corner | 1                 | -                    | -                    | 1        | Each |
| 009E3230        | Grade Staking                                | 17.766            | 0.943                | 1.239                | 19.948   | Mile |
| 009E3245        | Final Cross Section Survey                   | 3.017             | 0.473                | 0.250                | 3.740    | Mile |
| 009E3250        | Miscellaneous Staking                        | 3.369             | 0.473                | 0.250                | 4.092    | Mile |
| 009E3280        | Slope Staking                                | 3.017             | 0.473                | 0.250                | 3.740    | Mile |
| 009E3290        | Structure Staking                            | 6                 | -                    | -                    | 6        | Each |
| 009E3301        | Engineer Directed Surveying/Staking          | 40.0              | 20.0                 | 5.0                  | 65.0     | Hour |
| 009E4300        | Construction Schedule, Category III          | Lump Sum          | Lump Sum             | Lump Sum             | Lump Sum | LS   |
| 100E0020        | Clear and Grub Tree                          | 5                 | -                    | -                    | 5        | Each |
| 100E0100        | Clearing                                     | Lump Sum          | -                    | -                    | Lump Sum | LS   |
| 110E0300        | Remove Concrete Curb and/or Gutter           | 3,428             | -                    | 1,703                | 5,131    | Ft   |
| 110E0600        | Remove Fence                                 | 3,306             | -                    | -                    | 3,306    | Each |
| 110E1010        | Remove Asphalt Concrete Pavement             | 26,598.8          | 430.4                | -                    | 27,029.2 | SqYd |
| 110E1100        | Remove Concrete Pavement                     | 1,286.7           | -                    | 4,143.3              | 5,430.0  | SqYd |
| 110E1120        | Remove Concrete Median Pavement              | -                 | -                    | 465.3                | 465.3    | SqYd |
| 110E1140        | Remove Concrete Sidewalk                     | 103.3             | -                    | 1,110.4              | 1,213.7  | SqYd |
| 110E7500        | Remove Pipe for Reset                        | -                 | -                    | 46                   | 46       | Ft   |
| 110E7510        | Remove Pipe End Section for Reset            | -                 | -                    | 2                    | 2        | Each |
| 120E0010        | Unclassified Excavation                      | 242,794           | 6,756                | 9,498                | 259,048  | CuYd |
| 120E0300        | Borrow Unclassified Excavation               | 527,148           | 31,297               | -                    | 558,445  | CuYd |
| 120E1000        | Muck Excavation                              | 34,635            | 2,021                | -                    | 36,656   | CuYd |
| 120E2000        | Undercutting                                 | 25,973            | 2,978                | 5,469                | 34,420   | CuYd |
| 120E6100        | Water for Embankment                         | 6,414.6           | 316.7                | 13.1                 | 6,744.4  | MGal |
| 240E0010        | Obliterate Old Road                          | 16                | -                    | -                    | 16       | Sta  |
| 250E0020        | Incidental Work, Grading                     | Lump Sum          | Lump Sum             | Lump Sum             | Lump Sum | LS   |
| 260E6010        | Granular Material                            | 150.0             | -                    | -                    | 150.0    | Ton  |
| 380E2564        | 4" Barrier Type Colored Median PCC Pavement  | 4,201.3           | 422.2                | -                    | 4,623.5  | SqYd |
| 380E2566        | 6" Barrier Type Colored Median PCC Pavement  | 1,055.8           | 272.3                | -                    | 1,328.1  | SqYd |
| 380E3520        | 6" PCC Approach Pavement                     | 69.3              | -                    | -                    | 69.3     | SqYd |
| 380E4010        | 6" PCC Fillet Section                        | -                 | 75.2                 | -                    | 75.2     | SqYd |
| 450E0105        | 12" RCP Class 5, Furnish                     | -                 | 54                   | -                    | 54       | Ft   |
| 450E0110        | 12" RCP, Install                             | -                 | 54                   | -                    | 54       | Ft   |
| 450E0114        | 15" RCP Class 4, Furnish                     | -                 | 88                   | -                    | 88       | Ft   |
| 450E0120        | 15" RCP, Install                             | -                 | 88                   | -                    | 88       | Ft   |
| 450E0122        | 18" RCP Class 2, Furnish                     | 10,116            | 1,176                | 20                   | 11,312   | Ft   |
| 450E0130        | 18" RCP, Install                             | 10,116            | 1,176                | 20                   | 11,312   | Ft   |
| 450E0142        | 24" RCP Class 2, Furnish                     | 2,990             | 114                  | 4                    | 3,108    | Ft   |
| 450E0150        | 24" RCP, Install                             | 2,990             | 114                  | 4                    | 3,108    | Ft   |
| 450E0162        | 30" RCP Class 2, Furnish                     | 88                | -                    | -                    | 88       | Ft   |
| 450E0170        | 30" RCP, Install                             | 88                | -                    | -                    | 88       | Ft   |
| 450E0182        | 36" RCP Class 2, Furnish                     | 802               | 224                  | -                    | 1,026    | Ft   |
| 450E0190        | 36" RCP, Install                             | 802               | 224                  | -                    | 1,026    | Ft   |
| 450E0416        | 24" RCP Bend, Furnish                        | 12                | -                    | -                    | 12       | Each |
| 450E0417        | 24" RCP Bend, Install                        | 12                | -                    | -                    | 12       | Each |
| 450E2000        | 12" RCP Flared End, Furnish                  | -                 | 2                    | -                    | 2        | Each |
| 450E2001        | 12" RCP Flared End, Install                  | -                 | 2                    | -                    | 2        | Each |



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ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B2    | B174            |

Plotting Date: 7/22/2026

## SECTION B ESTIMATE OF QUANTITIES CONTINUED

| Bid Item Number | Item                                            | Quantity          |                      |                      |         | Unit |
|-----------------|-------------------------------------------------|-------------------|----------------------|----------------------|---------|------|
|                 |                                                 | PCN 01VA Veterans | PCN 08DJ 69th Street | PCN 08DK 57th Street | Total   |      |
| 450E2004        | 15" RCP Flared End, Furnish                     | -                 | 4                    | -                    | 4       | Each |
| 450E2005        | 15" RCP Flared End, Install                     | -                 | 4                    | -                    | 4       | Each |
| 450E2008        | 18" RCP Flared End, Furnish                     | 18                | 5                    | -                    | 23      | Each |
| 450E2009        | 18" RCP Flared End, Install                     | 18                | 5                    | -                    | 23      | Each |
| 450E2016        | 24" RCP Flared End, Furnish                     | 9                 | 2                    | -                    | 11      | Each |
| 450E2017        | 24" RCP Flared End, Install                     | 9                 | 2                    | -                    | 11      | Each |
| 450E2028        | 36" RCP Flared End, Furnish                     | 9                 | 2                    | -                    | 11      | Each |
| 450E2029        | 36" RCP Flared End, Install                     | 9                 | 2                    | -                    | 11      | Each |
| 450E3002        | 18" RCP Arch Class 2, Furnish                   | -                 | -                    | 252                  | 252     | Ft   |
| 450E3010        | 18" RCP Arch, Install                           | -                 | -                    | 252                  | 252     | Ft   |
| 450E3032        | 36" RCP Arch Class 2, Furnish                   | 760               | -                    | -                    | 760     | Ft   |
| 450E3040        | 36" RCP Arch, Install                           | 760               | -                    | -                    | 760     | Ft   |
| 450E3062        | 54" RCP Arch Class 2, Furnish                   | -                 | -                    | 32                   | 32      | Ft   |
| 450E3070        | 54" RCP Arch, Install                           | -                 | -                    | 32                   | 32      | Ft   |
| 450E3072        | 60" RCP Arch Class 2, Furnish                   | -                 | -                    | 40                   | 40      | Ft   |
| 450E3080        | 60" RCP Arch, Install                           | -                 | -                    | 40                   | 40      | Ft   |
| 450E4512        | 36" RCP Arch Flared End, Furnish                | 10                | -                    | -                    | 10      | Each |
| 450E4513        | 36" RCP Arch Flared End, Install                | 10                | -                    | -                    | 10      | Each |
| 450E7636        | 36" Steel Pipe, Furnish                         | 246               | -                    | -                    | 246     | Ft   |
| 450E9000        | Reset Pipe                                      | -                 | -                    | 46                   | 46      | Each |
| 450E9001        | Reset Pipe End Section                          | -                 | -                    | 2                    | 2       | Each |
| 451E5136        | Bore and Jack 36" Pipe                          | 246               | -                    | -                    | 246     | Ft   |
| 462E0100        | Class M6 Concrete                               | 293.5             | 35.0                 | 21.1                 | 349.6   | CuYd |
| 480E0100        | Reinforcing Steel                               | 56,560            | 6,381                | 4,040                | 66,981  | Lb   |
| 600E0300        | Type III Field Laboratory                       | 1                 | -                    | -                    | 1       | Each |
| 620E0020        | Type 2 Right-of-Way Fence                       | 269               | -                    | -                    | 269     | Ft   |
| 620E1020        | 2 Post Panel                                    | 2                 | -                    | -                    | 2       | Each |
| 650E0059        | Modified Type B66 Concrete Curb and Gutter      | 2,343             | 3,205                | -                    | 5,548   | Ft   |
| 650E0089        | Modified Type B69 Concrete Curb and Gutter      | 55                | -                    | 1,672                | 1,727   | Ft   |
| 650E0360        | Type BL66 Concrete Curb and Gutter              | -                 | 3,040                | 1,668                | 4,708   | Ft   |
| 650E1100        | Type F610 Concrete Curb and Gutter              | 29,695            | -                    | -                    | 29,695  | Ft   |
| 650E1400        | Type FL610 Concrete Curb and Gutter             | 26,534            | -                    | -                    | 26,534  | Ft   |
| 650E4659        | Modified Type P6 Concrete Gutter                | 89                | -                    | -                    | 89      | Ft   |
| 650E4700        | Type P10 Concrete Gutter                        | 232               | -                    | -                    | 232     | Ft   |
| 650E6060        | 6" Concrete Valley Gutter                       | -                 | 30                   | -                    | 30      | SqYd |
| 650E6080        | 8" Concrete Valley Gutter                       | 39                | -                    | -                    | 39      | SqYd |
| 651E0040        | 4" Concrete Sidewalk                            | -                 | 217                  | -                    | 217     | SqFt |
| 651E0060        | 6" Concrete Sidewalk                            | 71,932            | 25,918               | 10,447               | 108,297 | SqFt |
| 651E0080        | 8" Concrete Sidewalk                            | 272               | -                    | -                    | 272     | SqFt |
| 651E7000        | Type 1 Detectable Warnings                      | 352               | 45                   | -                    | 397     | SqFt |
| 670E1200        | Type B Frame and Grate                          | 253               | 27                   | 12                   | 292     | Each |
| 670E5202        | Special Frame and Grate                         | -                 | -                    | 1                    | 1       | Each |
| 670E5340        | 4' x 11' Precast Concrete Type S Drop Inlet Lid | -                 | 2                    | -                    | 2       | Each |
| 670E5400        | Precast Drop Inlet Collar                       | 168               | 11                   | 8                    | 187     | Each |
| 671E6007        | Type A7 Manhole Frame and Lid                   | 1                 | -                    | 1                    | 2       | Each |
| 700E0210        | Class B Riprap                                  | 402.3             | 83.9                 | -                    | 486.2   | Ton  |
| 831E0110        | Type B Drainage Fabric                          | 652               | 117                  | -                    | 769     | SqYd |
| 900E1150        | Concrete Right of Way Marker                    | 116               | -                    | -                    | 116     | Each |



GENERAL GEOLOGY

The project alignment traverses glacial terrain typical of eastern South Dakota. Included within this terrain may be areas of loess, shale, sand, gravel, glacial till and boulder till. As is the case with most glacial terrain, the materials throughout the project can vary greatly in a short distance.

CLASSIFICATION OF EXCAVATION

Large glacial boulders may be encountered sporadically within the project limits. Very large boulders could require more effort to excavate. Most of the material encountered should be able to be excavated using conventional methods associated with normal Unclassified Excavation. Muck Excavation will be required at the areas shown in the plans or as directed by the Engineer.

MACHINE CONTROL GRADING & MODEL INFORMATION

Electronic design files are made available by the SDDOT Bid Letting Office through the SDDOT's SharePoint Directory for Contractors. The roadway finished model(s) xml file(s) provided for this project includes the following highway features: intersecting roads and entrances, inslope transitions at pipes and box culverts, ditches, and borrow pits. It is the Contractor's responsibility to verify the features listed as being incorporated in the model are actually included. If any discrepancy exists, the plans will govern over the provided electronic information, regardless of the features listed above.

These files are provided for informational purposes only. The information shown in the plans will govern over the provided electronic information. The Contractor assumes the risk of error if the information is used for any purposes for which the information was not intended. The Contractor assumes all risk of any assumptions or manipulations made of the electronic information.

GRADING OPERATIONS

Compaction of earth embankment will be per the Specified Density Method. Water for Embankment is estimated at the rate of 10 gal/cuyd of embankment.

The depth of existing topsoil is approximately 6".

The estimated cubic yards of excavation and/or embankment required to construct outlet ditches, ditch blocks, and approaches are included in the earthwork balance notes on the profile sheets.

Special ditch grades and other sections of the roadway different than the typical section(s) will be constructed to the limits shown on the cross sections. If significant changes to the cross sections are necessary during construction, the Engineer will contact the Designer for the proposed change.

Generally, all shallow inlet and outlet ditches as noted on the plan sheets will be cut with a 10-foot wide bottom with 4:1 backslopes. However, the Engineer may direct the Contractor to adjust the ditch width for proper alignment with the drainage structure.

NOISE PERMIT

The Contractor will obtain a noise permit from the City of Sioux Falls Health Department (Dominic Miller 605-367-8768) if working between 10:30 PM to 6:00 AM. The Contractor will submit a request in writing to the Engineer for approval 24 hours in advance when nighttime work is contemplated.

TYPE III FIELD LABORATORY

The Contractor will provide high-speed broadband internet connection to the field lab. The multiport internet connection may be hardwired, through a cellular method, or other approved service that allows Wi-Fi connection. Prior to obtaining the internet connection, the Contractor will submit the internet connection's technical data to the Area Office to check for compatibility with the state's computer equipment. The Contractor's personnel are prohibited from using the internet connection unless pre-approved by the Project Engineer. The internet service will be incidental to the contract unit price per each for "Type III Field Laboratory".

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 elsewhere in the plans or bidding documents.

Subsurface utility explorations were done for this project. The findings can be found in the SUBSURFACE UTILITY LOCATIONS table elsewhere in the plans. The table is provided to aid the Contractor during construction. All information in the table is approximate and will be verified by the Contractor prior to construction in those areas.

The Contractor will notify the East River Electric representative a minimum of 48 hours prior to conducting any work in the vicinity of East River Electric facilities. The East River Electric contact information is listed in the SUBSURFACE UTILITY LOCATION sheets.

The Contractor will notify the Lincoln County Rural Water representative a minimum of 48 hours prior to conducting any work in the vicinity of Lincoln County Rural Water facilities. The contact information is listed in the SUBSURFACE UTILITY LOCATION sheets.

The Contractor will notify WAPA when there is construction work in the vicinity of WAPA structures. A WAPA representative needs to be on site at those times.

Lewis and Clark Regional Water System pipeline crosses SD11 at station 1165+94:

Lewis & Clark Regional Water System is designated as a High-Profile Utility with SD One Call. The Contractor will comply with the Special Provision for Lewis & Clark Crossing Requirements at all times. No heavy equipment shall operate, park, or be placed overtop of the Lewis & Clark pipe. No excess soil shall be placed or stored over the top of the Lewis & Clark pipe. No equipment shall traverse across the Lewis & Clark pipe, except on the pavement surface of Highway 11. Contractor shall provide 30-day notice to Lewis & Clark in accordance with the Crossing Requirements prior to any work on or near the Lewis & Clark pipe or within their easement.

Any loss of water service for any situation in this portion of the pipeline may result in an economic loss for Lewis & Clark Regional Water System. This portion of the 30-inch diameter pipeline serves MCWC, Rock County Rural Water, Lincoln-Pipestone Rural Water, City of Rock Rapids, City of Quivera, MN, and the City of Worthington Mn.

REV. DATE: 6/9/2026  
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|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B3    | B174            |

Plotting Date: 6/9/2026

A high-pressure Xcel Energy steel gas line crosses proposed Veterans Parkway at station 455+ 80, 69<sup>th</sup> Street at station 1125+60, and is between Borrow Pit #5 Ponds A and B. Xcel Energy will need to provide an inspector for any work within their easement. Grading within the easement will not take place unless approved by Xcel Energy Engineering. All loading and hauling equipment crossing the easement will meet weight requirements and be reviewed by Xcel Energy Engineering for weight criteria above the gas line. The Xcel onsite inspector may require the Contractor to build up the ground over the gas line depending on the equipment driving through the easement. The cost to build up the ground over the gas line will be the responsibility of the Contractor. An Encroachment Agreement has been secured by SDDOT.

An Xcel Energy Electrical line crosses Veterans Parkway near station 441+00. A minimum distance of 20.0 feet of supported earth must be maintained from any part of the line structure. Support of the ground beyond the 20.0 feet may be provided by a slope no greater than three feet horizontal to one foot vertical. Support may also be provided by the use of cribbing, sheet piling, retaining wall or tunneling. The specific plan for providing the required support and the excavation plan for the proposed project must be submitted to Xcel Energy for review and approval prior to construction start. The Contractor will notify Xcel Energy Electrical Transmission when there is construction work in the vicinity of the Xcel structures.

The City of Sioux Falls intends on installing a sanitary sewer force main along SD11 from Cody Road to 69<sup>th</sup> Street, likely in 2027 or 2028. The Veterans Parkway Contractor will coordinate with the City Contractor so that work activities between the roadway and sanitary sewer projects do not conflict. Costs associated with the coordination will be incidental to the various bid items in the project.

See the Subsurface Utility Locations sheet for contact information.

WEED CONTROL

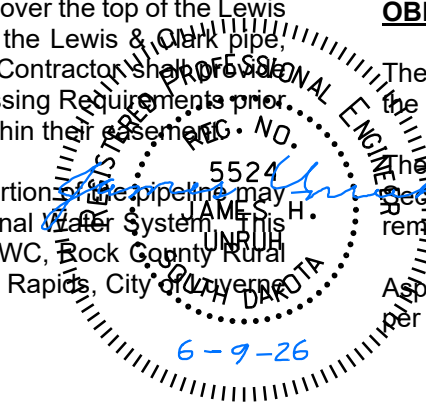
Per the Specifications, the Contractor is responsible for Weed Control. For clarification on this requirement, no weeds, including sunflowers, will be allowed to grow over 24" in height within the project limits. Weed control is expected to be applied before weeds approach 24". Weeds that exceed 24" in height will be removed by mowing. Weeds listed as Statewide Noxious Weeds as defined by the South Dakota Weed and Pest Control Commission or declared by the County as a local noxious weeds will immediately be sprayed/removed upon discovery. Further information on noxious weeds can be found at: <https://danr.sd.gov/Conservation/PlantIndustry/WeedPest/WeedandPestInfo/default.aspx>.

OBLITERATING OLD ROAD

The Contractor will obliterate the existing roadway at the locations listed in the Table of Obliterating Old Road.

The Contractor will obliterate the existing roadway in accordance with Section 240 of the Specifications when the existing roadway is not being removed in accordance with the template section.

Asphalt removal will be paid for as "Remove Asphalt Concrete Pavement" per square yard.



The earthwork necessary for obliterating the existing road will be accomplished to such an extent that placing topsoil and seeding can be done in a satisfactory manner. Quantities of topsoil, fertilizing, mulching, and seeding for the obliterated sections of the old road are included in the Section D - Erosion and Sediment Control Plans Estimate of Quantities.

| TABLE OF OBLITERATING OLD ROAD |         |     |        |
|--------------------------------|---------|-----|--------|
| Station to                     | Station | L/R | Length |
| <b>01VA SD Hwy 11</b>          |         |     |        |
| 1156+67                        | 1161+50 | L   | 13     |
| <b>01VA 69th St/Co. Rd 102</b> |         |     |        |
| 910+16                         | 912+56  | L/R | 3      |
| Project Total                  |         |     | 16     |

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| STATE OF SOUTH DAKOTA    | PROJECT                                    | SHEET | TOTAL SHEETS |
|--------------------------|--------------------------------------------|-------|--------------|
|                          | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B4    | B174         |
| Plotting Date: 7/22/2026 |                                            |       |              |

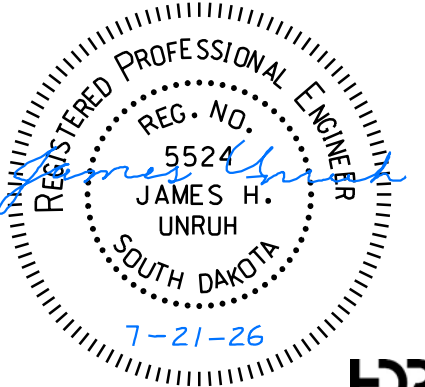
TABLE OF EXCAVATION QUANTITIES BY ROADWAYS

| Station to                      | Station                 | Unstable Exc.<br>(CuYd) | Excavation<br>(CuYd) | (1) Undercut<br>(CuYd) | (1) Muck Exc.<br>(CuYd) | (4) (5) Borrow Unclass. Exc.<br>(CuYd) | Total Excavation<br>(CuYd) | (2) Out-of-Balance Exc.<br>(CuYd) | (2) (3) Muck Excavation Waste<br>(CuYd) | (2) Dead Haul<br>(CuYdSta) | (2) Borrow Haul<br>(CuYdSta) | (2) Haul<br>(CuYdSta) |
|---------------------------------|-------------------------|-------------------------|----------------------|------------------------|-------------------------|----------------------------------------|----------------------------|-----------------------------------|-----------------------------------------|----------------------------|------------------------------|-----------------------|
| <b>01VA Roadways</b>            |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| <b>Veterans Parkway</b>         |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| 430+00 (begin project)          | 471+65 (69th St / SD11) | 15,854                  | 8,308                | 2,007                  | 1,731                   | 259,696                                | 287,596                    |                                   | 1,731                                   |                            | 5,622,592                    |                       |
| 471+65 (69th St / SD11)         | 519+34 (57th St)        | 2,713                   | 69,098               | 14,118                 | 17,286                  | 93,648                                 | 196,863                    |                                   | 17,286                                  |                            | 4,782,480                    | 47,766                |
| 519+34 (57th St)                | 543+80 (end project)    | 6,216                   | 13,810               | 2,752                  | 5,864                   | 48,567                                 | 77,209                     |                                   | 5,864                                   | 2,476,553                  | 226,226                      |                       |
| 525+16 (crossover 1)            | 527+95                  |                         | 35                   |                        |                         | 162                                    | 197                        |                                   |                                         | 9,558                      |                              |                       |
| 541+92 (crossover 3)            | 548+98                  |                         | 1,089                |                        |                         | 381                                    | 1,470                      |                                   |                                         | 28,956                     |                              |                       |
| Total Veterans Parkway          |                         | 24,783                  | 92,340               | 18,877                 | 24,881                  | 402,454                                | 563,335                    |                                   | 24,881                                  | 2,515,067                  | 10,631,298                   | 47,766                |
| <b>SD11</b>                     |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| 1136+69 (Veterans)              | 1169+47 (end project)   | 12,158                  | 25,044               | 6,191                  | 2,843                   | 69,011                                 | 115,247                    |                                   | 2,843                                   |                            | 933,144                      |                       |
| <b>69th St/CR102 Connection</b> |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| 901+00 (SD11)                   | 912+69 (end project)    | 0                       | 2,238                | 905                    | 6,911                   | 19,841                                 | 29,895                     |                                   | 6,911                                   | 238,092                    | 181,702                      |                       |
| Total 01VA                      |                         | 36,941                  | 119,622              | 25,973                 | 34,635                  | 491,306                                | 708,477                    |                                   | 34,635                                  | 2,753,159                  | 11,746,144                   | 47,766                |
| <b>CIP Roadways</b>             |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| <b>08DJ 69th St</b>             |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| 1113+25 (begin project)         | 1134+47 (Veterans)      |                         | 1,417                | 2,978                  | 2,021                   | 31,297                                 | 37,713                     |                                   | 2,021                                   |                            | 251,083                      |                       |
| <b>08DK 57th St</b>             |                         |                         |                      |                        |                         |                                        |                            |                                   |                                         |                            |                              |                       |
| 55+70 (begin project)           | 63+82 (Veterans)        |                         | 2,089                | 3,026                  |                         |                                        | 5,115                      | 1,088                             |                                         |                            |                              | 2,215                 |
| 66+31 (Veterans)                | 70+10 (End Project)     |                         | 1,648                | 2,443                  |                         |                                        | 4,091                      | 242                               |                                         |                            |                              | 843                   |
| Total 08DK 57th St              |                         |                         | 3,737                | 5,469                  |                         |                                        | 9,206                      | 1,330                             |                                         |                            |                              | 3,058                 |
| Total Project                   |                         | 36,941                  | 124,776              | 34,420                 | 36,656                  | 522,603                                | 755,396                    | 1,330                             | 36,656                                  | 2,753,159                  | 11,997,227                   | 50,824                |

TABLE OF UNCLASSIFIED EXCAVATION

|                            | 01VA           | 08DJ 69th St | 08DK 57th St |
|----------------------------|----------------|--------------|--------------|
| Excavation                 | 119,622 (CuYd) | 1,417 (CuYd) | 3,737 (CuYd) |
| Unstable                   | 36,941 (CuYd)  | 0 (CuYd)     | 0 (CuYd)     |
| Undercut                   | 25,973 (CuYd)  | 2,978 (CuYd) | 5,469 (CuYd) |
| Topsoil (from Section D)   | 44,440 (CuYd)  | 2,361 (CuYd) | 292 (CuYd)   |
| Exc. for RCBC Installation | 15,818 (CuYd)  |              |              |
| Totals                     | 242,794 (CuYd) | 6,756 (CuYd) | 9,498 (CuYd) |

- (1) The quantities for these items are in the Estimate of Quantities under their respective contract items.  
(2) The quantities for these items are for information only.  
(3) Muck Excavation Waste is to be used as topsoil or disposed of at a site approved by the Engineer.  
(4) See Table of Borrow Unclassified Excavation for pay item quantities.  
(5) See Borrow Pit notes, tables, and sheets for limits of borrow placement.





FOR BIDDING PURPOSES ONLY

REV. DATE: 7/21/2026  
INITIAL: JHU

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B5    | B174            |

Plotting Date: 7/21/2026

**SHRINKAGE FACTORS**

| Roadway           | Shrinkage (%) |
|-------------------|---------------|
| Veterans Parkway  | +35%          |
| 69th St           | +35%          |
| SD11              | +30%          |
| 57th St           | +20%          |
| 69th St/Co Rd 102 | +35%          |

**PROCEDURES FOR DETERMINING UNCLASSIFIED EXCAVATION QUANTITY**

When plan quantities are used for payment, the Unclassified Excavation quantity will be used for final payment and the plans quantity of Topsoil and salvaged surfacing items listed in the Table of Unclassified Excavation will not be adjusted according to field measurements. If there are locations with substantial deviations from the design cross sections, measured cross sections will be used to determine final quantities at those locations.

The Unstable Material Excavation quantity is included in the Excavation quantity listed in the Table of Unclassified Excavation. When finaling a project, the Unstable Material Excavation quantity will be added to the Excavation quantity to compute the Unclassified Excavation quantity.

The Topsoil quantity in the Table of Unclassified Excavation is an estimate. When finaling a project, the total quantity of field measured Topsoil will be used in place of the estimated Topsoil quantity. The quantity of Topsoil from the cuts will be paid for twice as Unclassified Excavation, as it will be in both the Excavation and Topsoil quantities. This will be full compensation for Excavation, which includes necessary undercutting to provide space for placement of topsoil.

The volume of in place Concrete Surfacing removed will NOT be paid for as Unclassified Excavation.

Borrow Unclassified Excavation is from Borrow Pit #5 (69<sup>th</sup> Street pit) and Borrow Pit #8 (Jamison pit).

| TABLE OF BORROW UNCLASSIFIED EXCAVATION |         |
|-----------------------------------------|---------|
| 01VA Roadways                           | (CyYd)  |
| Borrow Unclassified Excavation          |         |
| Borrow Pit #5 (69th Street)             | 475,206 |
| Borrow Pit #8 (Jamison) (2)             | 16,100  |
| Topsoil in Borrow Pits                  |         |
| Borrow Pit #5 (69th Street)             | 31,842  |
| Borrow Pit #8 (Jamison) (2)             | 4,000   |
| 01VA Roadways                           | 527,148 |
| 08DJ 69th St                            |         |
| Borrow Unclassified Excavation          | 31,297  |
| Total Project                           | 558,445 |

**HAUL**

Included in the Table of Excavation Quantities by Balances are Dead Haul, Borrow Haul, and Haul. They are not pay items and are for informational purposes only.

Dead Haul: Estimated quantity (CuYdSta) for moving borrow excavation material or option borrow excavation material from the borrow or option borrow site to the centerline mainline station listed in the Table of Borrow Pits.

Borrow Haul: Estimated quantity (CuYdSta) for moving borrow excavation material from the centerline mainline station listed in the Table of Borrow Pits to the locations where it is needed throughout the earthwork balance.

Haul: Estimated quantity (CuYdSta) for moving unclassified excavation material to the locations where it is needed throughout the earthwork balance.

Compensation for "Extra Haul" will not be made for haul distances less than 5 stations. When payment for "Extra Haul" is authorized, the distance used for "Extra Haul" calculations will be that in excess of 5 stations.

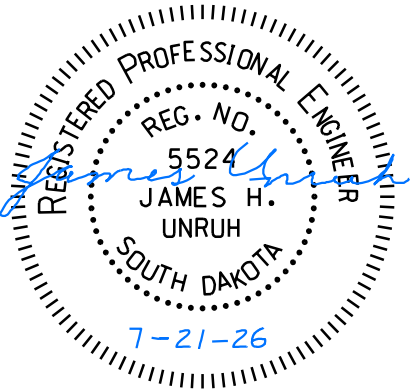
**UNDERCUTTING**

In all cut sections the earthen subgrade will be undercut 2 feet below the earthen subgrade surface. The undercut material or other suitable material, as directed by the Engineer, will then be replaced and compacted to the density specified for the section being constructed.

Shallow embankment sections, fills less than 2 feet in height measured at the finished subgrade shoulders, will be undercut to ensure a minimum 2 foot height of earth embankment for the entire width of roadbed. The upper 6 inches of undercut material that consists of topsoil with a high humus content will be used as topsoil, placed in the fill slopes outside the shoulders of the earthen subgrade, or placed in the lower portion (below 4 foot depth) in fills which are greater than 4 feet in height. The remaining undercut soil and soil obtained from adjacent excavation (excluding the upper 6 inches) will then be replaced and compacted to the density specified for the section being constructed.

The plan shown quantity will be the basis of payment. However, if there are additional areas of undercut other than what is shown in the plans, the Engineer will direct removal of these areas and the additional areas will be measured according to the Engineer.

| TABLE OF UNDERCUTTING           |                       |        |
|---------------------------------|-----------------------|--------|
| Station to                      | Station               | CuYd   |
| <b>01VA Roadways</b>            |                       |        |
| <b>Veterans Parkway</b>         |                       |        |
| 430+00 (begin project)          | 471+65 (69th St / SD  | 2,007  |
| 471+65 (69th St / SD11)         | 519+34 (57th St)      | 14,118 |
| 519+34 (57th St)                | 543+80 (end project)  | 2,752  |
| Total Veterans Parkway          |                       | 18,877 |
| <b>SD11</b>                     |                       |        |
| 1136+69 (Veterans)              | 1169+47 (end project) | 6,191  |
| <b>69th St/CR102 Connection</b> |                       |        |
| 901+00 (SD11)                   | 912+69 (end project)  | 905    |
| Total 01VA                      |                       | 25,973 |
| <b>CIP Roadways</b>             |                       |        |
| <b>08DJ 69th St</b>             |                       |        |
| 1113+25 (begin project)         | 1169+47 (end project) | 2,978  |
| <b>08DK 57th St</b>             |                       |        |
| 55+70 (begin project)           | 63+82 (Veterans)      | 3,026  |
| 66+31 (Veterans)                | 70+10 (End Project)   | 2,443  |
| Total 08DK 57th St              |                       | 5,469  |
| Total Project                   |                       | 34,420 |



UNSTABLE MATERIAL EXCAVATION

The areas of unstable material excavation are drawn on the cross sections with a normal depth of 2 feet. The estimated quantity of 36,941 cubic yards of unstable material excavation will be paid for at the contract unit price per cubic yard for "Unclassified Excavation".

All areas designated as Unstable will be excavated. The unstable material excavated on this project will be placed outside the subgrade shoulder in fill sections or stockpiled and used as topsoil.

Field measurement of unstable material excavation will not be made. However, if there are additional areas of unstable material excavation other than what is shown in the plans, the Engineer will direct removal of these areas and the additional areas will be measured according to the Engineer.

| TABLE OF UNSTABLE MATERIAL EXCAVATION |                   |                 |
|---------------------------------------|-------------------|-----------------|
| Station to                            | Station           | Quantity (CuYd) |
| 01VA Roadways                         |                   |                 |
| Veterans Parkway                      |                   |                 |
| 445+00±                               | 448+00±, Lt & Rt  | 6,938           |
| 449+00±                               | 452+00±, Lt & Rt  | 8,916           |
| 477+50±                               | 479+00±, Lt & Rt  | 1,590           |
| 497+50±                               | 499+00±, Lt       | 1,123           |
| 524+00±                               | 528+00±, Lt & Rt  | 6,216           |
| Total Veterans Parkway                |                   | 24,783          |
| SD11                                  |                   |                 |
| 1139+00±                              | 1141+50±, Lt & Rt | 4,660           |
| 1143+50±                              | 1145+50±, Rt      | 1,217           |
| 1151+50±                              | 1155+50±, Lt & Rt | 4,732           |
| 1157+75± Lt                           | 1163+00±, Rt      | 1,549           |
| 1161+00±                              | 1164+00±, Lt      |                 |
| Total SD11                            |                   | 12,158          |
| Total 01VA                            |                   | 36,941          |

MUCK EXCAVATION

The areas of muck excavation are drawn on the cross sections with a normal depth of 3 feet. The estimated quantity of 36,656 cubic yards of muck excavation will be paid for at the contract unit price per cubic yard for "Muck Excavation".

Muck excavation consists of the removal of highly organic and/or highly saturated material from the designated areas shown on the cross sections. Highly organic muck material will not be used in the embankment but may be used as topsoil. Non-organic muck material may be used as embankment outside of the fill subgrade shoulder if it is properly handled and dried prior to placement in the embankment.

Field measurement of muck excavation will not be made unless the Engineer orders additional excavation, or when the Engineer determines, in accordance with Section 120.3 A.1 of the Specifications, that the classification of excavation be changed.

If the areas designated as muck excavation can be removed with similar equipment and procedures as used for unclassified excavation, the material will be measured and paid for as "Unclassified Excavation".

| TABLE OF MUCK EXCAVATION        |                   |                    |
|---------------------------------|-------------------|--------------------|
| Station to                      | Station           | Quantity<br>(CuYd) |
| <b>01VA Roadways</b>            |                   |                    |
| <b>Veterans Parkway</b>         |                   |                    |
| 430+50±                         | 432+50±, Lt       | 1,731              |
| 479+00±                         | 481+50±, Lt & Rt  | 6,911              |
| 483+50±                         | 485+00±, Rt       | 4,074              |
| 484+00±                         | 486+00±, Lt       |                    |
| 511+00±                         | 518+75±, Rt       | 6,301              |
| 511+50±                         | 513+50±, Lt       |                    |
| 520+00±                         | 524+00±, Rt       | 5,864              |
| 521+50±                         | 524+00±, Lt       |                    |
| Total Veterans Parkway          |                   | <b>24,881</b>      |
| <b>SD11</b>                     |                   |                    |
| 1163+50±                        | 1167+50±, Rt      | 2,843              |
| 1164+00±                        | 1166+25±, Lt      |                    |
| <b>69th St/CR102 Connection</b> |                   |                    |
| 906+50±                         | 912+55±, Lt & Rt  | 6,911              |
| Total 69th St/CR102 Connection  |                   | 6,911              |
| <b>Total 01VA</b>               |                   | <b>34,635</b>      |
| <b>08DJ 69th St</b>             |                   |                    |
| 1115+50±                        | 1116+50±, Rt      | 275                |
| 1117+00±                        | 1121+00±, Lt & Rt | 1,161              |
| 1121+50±                        | 1124+00±, Lt      | 585                |
| Total 69th St                   |                   | 2,021              |
| <b>Total Project</b>            |                   | <b>36,656</b>      |

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REV. DATE: 6-9-2026  
INITIAL: JHU

| STATE OF SOUTH DAKOTA | PROJECT                                    | SHEET | TOTAL SHEETS |
|-----------------------|--------------------------------------------|-------|--------------|
|                       | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B6    | B174         |

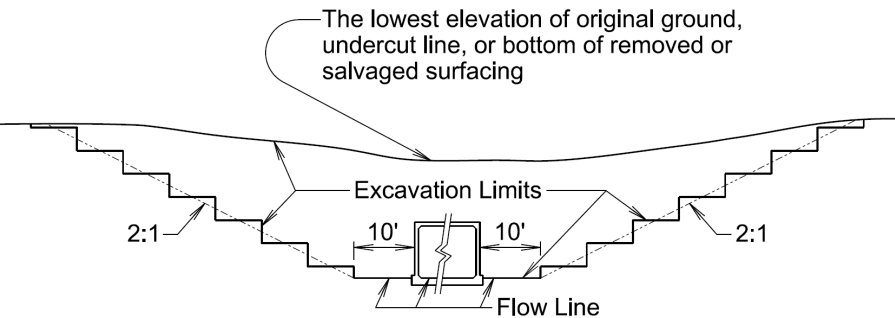
Plotting Date: 6/9/2026

EXCAVATION FOR REINFORCED CONCRETE BOX CULVERT INSTALLATION / REPAIR

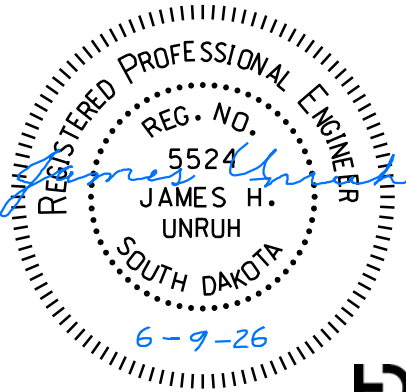
Included in the quantity of "Unclassified Excavation" are 15,818 cubic yards of excavation for installation / repair of reinforced concrete box culverts.

All work necessary to excavate a trench for installation / repair of reinforced concrete box culverts including labor, equipment, and incidentals will be incidental to the contract unit price per cubic yard for "Unclassified Excavation". Payment for excavation of reinforced concrete box culverts will be based only on plans quantity and measurement of these excavation quantities during construction will not be performed.

The excavation quantities for installation / repair of reinforced concrete box culverts are not included with the earthwork balance quantities on the plans profile sheets. The quantities computed for excavation of the reinforced concrete box culverts are based on the limits shown in the drawing below.



| TABLE OF EXCAVATION FOR REINFORCED CONCRETE BOX CULVERT INSTALLATION / REPAIR |                |        |
|-------------------------------------------------------------------------------|----------------|--------|
| Station                                                                       | Description    | CuYd   |
| 01VA Roadways                                                                 |                |        |
| Veterans Parkway                                                              |                |        |
| 522+79                                                                        | 12'x5' Precast | 7,088  |
| 537+06                                                                        | 12'x8' Repairs | 8,730  |
| Total 01VA                                                                    |                | 15,818 |





SOIL CONDITIONS

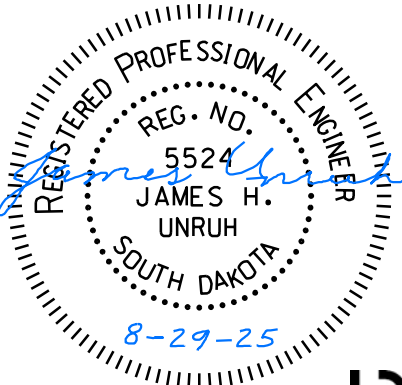
The table below lists the material in the subgrade, depth to groundwater, and open time for each of the borings.

| Station | Offset (ft) | Depth (ft)          | Description                                 | Initial Water Level (ft) | Final Water Level (ft) | Time Between Reading (hrs) |
|---------|-------------|---------------------|---------------------------------------------|--------------------------|------------------------|----------------------------|
| 430+00  | 25'RT       | 0-15.0              | Brown silt clay                             | 14.4                     | 5.5*                   | 316                        |
| 435+00  | 50'RT       | 0-5.5<br>5.5-10.0   | Brown silt clay<br>Brown sandy clay         | 6.0                      | 6.0*                   | 316                        |
| 440+00  | 50'LT       | 0-15.0              | Brown silt clay                             | Dry                      | 6.0*                   | 362                        |
| 445+00  | CL          | 0-10.0              | Black to brown silt clay                    | 9.0                      | 5.0*                   | 360                        |
| 450+00  | CL          | 0-10.0              | Brown slit clay                             | 9.0                      | 5.0*                   | 359                        |
| 455+00  | CL          | 0-11.0<br>11.0-15.0 | Brown silt clay<br>Brown clay silt          | 14.0                     | 6.0*                   | 192                        |
| 460+00  | CL          | 0-5.0<br>5.0-15.0   | Brown silt clay<br>Brown sandy clay         | Dry                      | 6.0*                   | 191                        |
| 465+00  | CL          | 0-10.0              | Brown silt clay                             | 6.0                      | 6.0*                   | 175                        |
| 470+00  | CL          | 0-5.5<br>5.5-15.0   | Brown clay<br>Brown sandy clay              | Dry                      | 5.0*                   | 174                        |
| 475+00  | CL          | 0-10.0<br>10.0-15.0 | Brown silt clay<br>Brown sandy clay         | Dry                      | 14.0*                  | 175                        |
| 487+00  | CL          | 0-15.0              | Brown silt clay                             | 14.0                     | 4.4*                   | 216                        |
| 494+00  | 50'LT       | 0-10.0<br>10.0-15.0 | Brown silt clay<br>Brown sandy clay         | 13.0                     | 12.0*                  | 212                        |
| 504+00  | CL          | 0-10.0              | Black to brown silt clay                    | 7.0                      | 3.4*                   | 211                        |
| 520+00  | CL          | 0-15.0              | Brown silt clay                             | 6.0                      | 3.0*                   | 191                        |
| 525+00  | CL          | 0-10.0              | Brown silt clay                             | 9.0                      | 3.0*                   | 193                        |
| 530+00  | 25'LT       | 0-10.0              | Black to brown silt clay                    | 7.0                      | 5.5*                   | 71                         |
| 535+00  | 16'RT       | 0-4.5<br>4.5-15.0   | Brown clay silt<br>Black to brown silt clay | 14.8                     | 9.4*                   | 196                        |
| 1129+00 | CL          | 0-15.0              | Brown sandy clay                            | 13.0                     | 11.5**                 | 32                         |
| 1146+00 | 25'LT       | 0-10.0              | Brown silt clay                             | 3.0                      | 3.5**                  | 32                         |
| 1157+00 | CL          | 0-15.0              | Brown silt clay                             | 14.0                     | 7.0**                  | 31                         |
| 905+00  | 50'RT       | 0-10.0              | Brown sandy clay                            | Dry                      | 4.5**                  | 33                         |

\*water levels as of January 2022

\*\*water levels as of April 2024

The Contractor is advised that free water was encountered in several borings at levels that will be near the bottom of the new storm sewer trenches. Proper protective measures will be required for the storm sewer construction. Seasonal changes may affect the groundwater elevations. Sumps and/or other dewatering methods will be required.



BORROW PITS

Borrow pit #5 is east of the 69<sup>th</sup> St/Sycamore Ave intersection (referred to as the 69<sup>th</sup> St pit).

Borrow pit #8 is southeast of the Veterans Parkway/57<sup>th</sup> Street intersection (referred to as the Jamison pit).

All pits are being used for City BMP sites and will be used by the Contractor as borrow sources. See additional notes in the borrow pit information layout sheets.

| TABLE OF BORROW PITS              |                         |                          |                          |                     |
|-----------------------------------|-------------------------|--------------------------|--------------------------|---------------------|
| from station                      | to station              | Dead Haul Distance (Sta) | Borrow Excavation (CuYd) | Dead Haul (CuYdSta) |
| Station to                        | Station                 |                          |                          |                     |
| Borrow Pit #5 - 69th St           |                         |                          |                          |                     |
| 01VA Roadways                     |                         |                          |                          |                     |
| Veterans Parkway                  |                         |                          |                          |                     |
| 430+00 (begin project)            | 471+65 (69th St / SD11) | 0                        | 259,696                  | 0                   |
| 471+65 (69th St / SD11)           | 519+34 (57th St)        | 0                        | 93,648                   | 0                   |
| 519+34 (57th St)                  | 524+00                  | 48                       | 33,010                   | 1,574,247           |
| SD11                              |                         |                          |                          |                     |
| 1136+69 (Veterans)                | 1169+47 (end project)   | 0                        | 69,011                   | 0                   |
| 69th St/CR102 Connection          |                         |                          |                          |                     |
| 901+00 (SD11)                     | 912+69 (end project)    | 12                       | 19,841                   | 238,092             |
| Total Borrow Pit #5 01VA Roadways |                         |                          | 475,206                  | 1,812,339           |
| 08DJ 69th St                      |                         |                          |                          |                     |
| 1113+25 (begin project)           | 1134+47 (Veterans)      | 0                        | 31,297                   | 0                   |
| Total Borrow Pit #5               |                         |                          | 506,503                  | 1,812,339           |
| Borrow Pit #8 (Jamison) (2)       |                         |                          |                          |                     |
| Veterans Parkway                  |                         |                          |                          |                     |
| 524+00                            | 543+80 (end project)    | 58                       | 15,557                   | 902,306             |
| 525+16 (crossover 1)              | 527+95                  | 59                       | 162                      | 9,558               |
| 541+92 (crossover 3)              | 548+98                  | 76                       | 381                      | 28,956              |
| Total Borrow Pit #8               |                         |                          | 16,100                   | 940,820             |
| Total Project                     |                         |                          | 522,603                  | 2,753,159           |

Stations in the above table are not pit locations, but stations where the borrow is interjected into the earthwork balance for haul calculations.

The quantities listed in the above table for Dead Haul are for information only. The Dead Haul quantities are also included in the Table of Excavation Quantities by Balances.

The quantities listed in the above table for Borrow Excavation are also included in the Table of Excavation Quantities by Balances.

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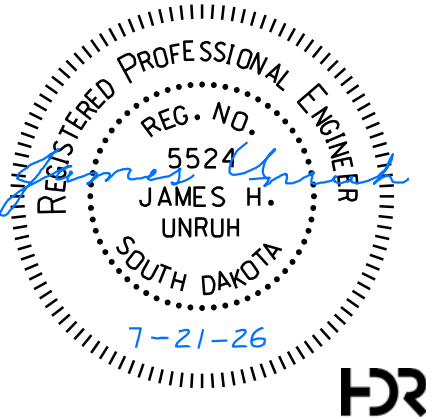
REV. DATE: 7/21/2026

INITIAL: JHU

| STATE OF SOUTH DAKOTA    | PROJECT                                    | SHEET | TOTAL SHEETS |
|--------------------------|--------------------------------------------|-------|--------------|
|                          | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B8    | B174         |
| Plotting Date: 7/21/2026 |                                            |       |              |

| Borrow Pit #5 (69th St) Anticipated Distribution |                         |         |        |
|--------------------------------------------------|-------------------------|---------|--------|
| station                                          | to station              |         |        |
| 01VA Roadways                                    |                         |         |        |
| Veterans Parkway                                 |                         |         |        |
| 430+00 (begin project)                           | 471+65 (69th St / SD11) | 259,696 | (CuYd) |
| 471+65 (69th St / SD11)                          | 519+34 (57th St)        | 93,648  | (CuYd) |
| 519+34 (57th St)                                 | 524+00                  | 33,010  | (CuYd) |
| SD11                                             |                         |         |        |
| 1136+69 (Veterans)                               | 1169+47 (end project)   | 69,011  | (CuYd) |
| 69th St/CR102 Connection                         |                         |         |        |
| 901+00 (SD11)                                    | 912+69 (end project)    | 19,841  | (CuYd) |
| CIP Roadways                                     |                         |         |        |
| 08DJ 69th St                                     |                         |         |        |
| 1113+25 (begin project)                          | 1134+47 (Veterans)      | 31,297  | (CuYd) |
| Total from Pit #5                                |                         | 506,503 | (CuYd) |

| Borrow Pit #8 (Jamison) Anticipated Distribution (1)                                               |                      |        |        |
|----------------------------------------------------------------------------------------------------|----------------------|--------|--------|
| station                                                                                            | to station           |        |        |
| 01VA Roadways                                                                                      |                      |        |        |
| Veterans Parkway                                                                                   |                      |        |        |
| 524+00                                                                                             | 543+80 (end project) | 15,557 | (CuYd) |
| 525+16 (crossover 1)                                                                               | 527+95               | 162    | (CuYd) |
| 541+92 (crossover 3)                                                                               | 548+98               | 381    | (CuYd) |
| Total from Pit #8 (Jamison)                                                                        |                      | 16,100 | (CuYd) |
| (1) The City of Sioux Falls will utilize this site for borrow material prior to 01VA construction. |                      |        |        |





CLEARING

Removal of stumps for cleared trees within the Veterans Parkway and Borrow Pit #5 Ponds D and E work limits will be paid for at the contract lump sum price for "Clearing" per the Table of Clearing below.

| TABLE OF CLEARING     |                  |                                                                        |          |
|-----------------------|------------------|------------------------------------------------------------------------|----------|
| 01VA Veterans Parkway |                  |                                                                        |          |
| Sta to Sta            | Offset           | Description                                                            | Qty      |
| 473+20 to 477+70      | 200' L to 200' R | within work limits of Veterans Parkway and Borrow Pit #5 Ponds D and E | Lump Sum |

CLEAR AND GRUB TREE

The Table of Clear and Grub Tree indicates the trees and stumps to be removed by the Contractor.

| TABLE OF CLEAR AND GRUB TREE (> 6" DIAMETER) |        |          |      |
|----------------------------------------------|--------|----------|------|
| 01VA SD Hwy 11                               |        |          |      |
|                                              |        |          | Each |
| 1162+73                                      | 103' R | 24" dia. | 1    |
| 1162+80                                      | 87' R  | 24" dia. | 1    |
| 1162+93                                      | 78' R  | 16" dia. | 1    |
| 1163+41                                      | 115' R | 24" dia. | 1    |
| 1163+51                                      | 116' R | 16" dia. | 1    |
| Project Total 01VA                           |        |          | 5    |

INCIDENTAL WORK, GRADING

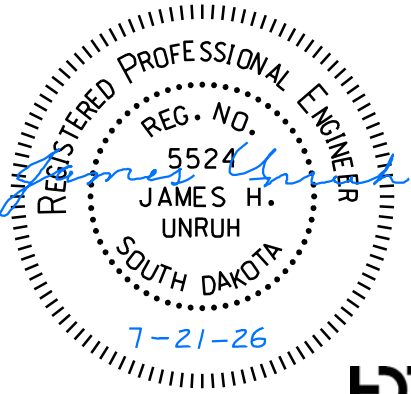
"Incidental Work, Grading" will consist of the removal and disposal of existing retaining wall, culverts (including end sections), and storm sewer pipe.

| TABLE OF INCIDENTAL WORK, GRADING                     |     |                        |                                    |                           |                                            |                        |              |
|-------------------------------------------------------|-----|------------------------|------------------------------------|---------------------------|--------------------------------------------|------------------------|--------------|
|                                                       | L/R | Remove<br>Pipe<br>(Ft) | Remove<br>End<br>Section<br>(Each) | Remove<br>Inlet<br>(Each) | (1)<br>Remove<br>Casting<br>Only<br>(Each) | Pipe<br>Size<br>(Dia.) | Pipe<br>Type |
| 01VA Veterans Parkway                                 |     |                        |                                    |                           |                                            |                        |              |
| 520+36.0 - 209.2' R                                   |     |                        |                                    |                           | 1                                          |                        |              |
| 522+55.0 - 187.3' R                                   |     |                        |                                    |                           | 1                                          |                        |              |
| 524+94.4 - 167.5' R                                   |     |                        |                                    |                           | 1                                          |                        |              |
| 527+34.5 - 150.3' R                                   |     |                        |                                    |                           | 1                                          |                        |              |
| 529+73.8 - 132.5' R                                   |     |                        |                                    |                           | 1                                          |                        |              |
| 532+12.9 - 114.5' R                                   |     |                        |                                    |                           | 1                                          |                        |              |
| 534+52.2 - 97.2' R                                    |     |                        |                                    |                           | 1                                          |                        |              |
| 536+96.3 - 78.0' R                                    |     |                        |                                    |                           | 1                                          |                        |              |
| 529+00, 1' to 72'                                     | R   | 69                     | 2                                  |                           |                                            | unknown                | unknown      |
| 539+17.58, 52' to 64'                                 | R   | 12                     |                                    | 1                         |                                            | 18"                    | RCP          |
| 541+15.66, 52' to 60'                                 | R   | 8                      |                                    | 1                         |                                            | 18"                    | RCP          |
| 01VA SD Hwy 11                                        |     |                        |                                    |                           |                                            |                        |              |
| 1162+98 to 1163+46                                    | R   | 46                     | 2                                  |                           |                                            | 18"                    | CMP          |
| 1166+31 to 1167+05                                    | L   | 74                     | 2                                  |                           |                                            | 18"                    | CMP          |
| Total 01VA                                            |     | 209                    | 6                                  | 2                         | 8                                          |                        |              |
| 08DK 57th Street                                      |     |                        |                                    |                           |                                            |                        |              |
| 57+39                                                 | R   |                        |                                    | 1                         |                                            |                        |              |
| 61+90                                                 | R   |                        |                                    | 1                         |                                            |                        |              |
| 65+76 to 65+90                                        | R   | 30                     | 1                                  | 1                         |                                            | unknown                | RCP          |
| 65+74 to 65+76                                        | L   | 24                     | 1                                  | 1                         |                                            | unknown                | RCP          |
| Total 08DK                                            |     | 54                     | 2                                  | 4                         |                                            |                        |              |
| 08DJ 69th Street                                      |     |                        |                                    |                           |                                            |                        |              |
| 1109+66 to 1110+29                                    | L   | 63                     | 2                                  |                           |                                            | 12"                    | CMP          |
| 1114+16 to 1114+22                                    | L/R | 45                     |                                    |                           |                                            | 12"                    | CMP          |
| 1115+38 to 1115+55                                    | L/R | 42                     |                                    |                           |                                            | 12"                    | CMP          |
| Total 08DJ                                            |     | 150                    | 2                                  |                           |                                            |                        |              |
| (1) F&I Temporary 3'x4' Drop Inlet Cover (Incidental) |     |                        |                                    |                           |                                            |                        |              |

| TABLE OF STORM SEWER REMOVALS FOR RESET |     |              |                          |                        |
|-----------------------------------------|-----|--------------|--------------------------|------------------------|
|                                         | L/R | Pipe<br>(Ft) | End<br>Section<br>(Each) | Pipe<br>Size<br>(Dia.) |
| 08DK 57th Street                        |     |              |                          |                        |
| 65+76 to 65+90                          | R   | 26           | 1                        | 60"                    |
| 65+74 to 65+76                          | L   | 20           | 1                        | 54"                    |
| Total 08DK                              |     | 46           | 2                        |                        |

| TABLE OF SAW CUT CONCRETE PAVEMENT (INCIDENTAL) |         |     |       |
|-------------------------------------------------|---------|-----|-------|
| Station to                                      | Station | L/R | Ft    |
| 01VA Veterans Parkway                           |         |     |       |
| 536+96                                          | 536+96  | R   | 24    |
| 536+29                                          | 543+80  | R   | 775   |
| 541+92                                          | 548+98  | L   | 706   |
| 541+92                                          | 548+98  | R   | 706   |
| 08DK 57th Street                                |         |     |       |
| 55+70                                           | 55+70   | R   | 22    |
| 62+22                                           | 62+22   | L   | 22    |
| 69+49                                           | 69+49   | R   | 22    |
| 70+09                                           | 70+09   | L   | 22    |
| Project Total                                   |         |     | 2,299 |

| TABLE OF SAW CUT ASPHALT PAVEMENT (INCIDENTAL) |         |     |     |
|------------------------------------------------|---------|-----|-----|
| Station to                                     | Station | L/R | Ft  |
| 01VA Veterans Parkway                          |         |     |     |
| 509+26                                         | 509+40  | R   | 66  |
| 536+54                                         | 536+53  | L   | 28  |
| 537+58                                         | 537+58  | L   | 28  |
| 01VA SD Hwy 11                                 |         |     |     |
| 1155+47                                        | 1156+56 | L   | 138 |
| 1156+56                                        | 1156+67 | L   | 30  |
| 1169+47                                        | 1169+47 | L/R | 30  |
| 01VA 69th St./Hwy 102 Con.                     |         |     |     |
| 912+36                                         | 912+95  | R   | 55  |
| 912+67                                         | 913+20  | L   | 59  |
| 08DJ 69TH Street                               |         |     |     |
| 1109+50                                        | 1110+32 | L/R | 44  |
| 1113+22                                        | 1113+22 | L/R | 24  |
| 1109+78                                        | 1110+12 | L   | 91  |
| Project Total                                  |         |     | 593 |



REMOVAL OF EXISTING PAVEMENT

The following information is derived from old plans and accuracy is not guaranteed:

SD11 asphalt pavement was originally 5" to 6" thick but the existing thickness is unknown due to maintenance patching and chip seals; aggregate base is 12" thick. There will be no additional payment for increased thicknesses.

69<sup>th</sup> Street asphalt pavement is 5" thick

| TABLE OF REMOVE ASPHALT CONCRETE PAVEMENT                                              |         |                   |     |          |
|----------------------------------------------------------------------------------------|---------|-------------------|-----|----------|
| Station                                                                                | Station | Description       | L/R | SqYd     |
| 01VA                                                                                   |         |                   |     |          |
| 510+25                                                                                 | 518+40  | Existing SD11 (1) | R   | 7,232.6  |
| 519+54                                                                                 | 525+12  | Existing SD11 (1) | R   | 14,011.2 |
| 522+01                                                                                 | 522+97  | Existing SD11 (1) | R   | 128.9    |
| 536+54                                                                                 | 537+58  | Existing SD11 (1) | L   | 313.1    |
| 536+54                                                                                 | 537+61  | Existing SD11 (1) | R   | 124.8    |
| 01VA 69th St/CR 102                                                                    |         |                   |     |          |
| 912+13                                                                                 | 913+49  | Existing SD11 (1) | L/R | 351.6    |
| 01VA SD Hwy 11                                                                         |         |                   |     |          |
| 1156+67                                                                                | 1169+47 | Existing SD11 (1) | L/R | 4,436.7  |
| 01VA Total                                                                             |         |                   |     | 26,598.8 |
| 08DJ 69th Street                                                                       |         |                   |     |          |
| 1109+50                                                                                | 1110+32 | Existing 69th St  | L/R | 417.0    |
| 1113+22                                                                                | 1113+27 | Existing 69th St  | L/R | 13.4     |
| 08DJ Total                                                                             |         |                   |     | 430.4    |
| Project Total                                                                          |         |                   |     | 27,029.2 |
| (1) Removal of existing SD11 pavement includes removal of the aggregate base material. |         |                   |     |          |

| TABLE OF REMOVE CONCRETE MEDIAN PAVEMENT |         |     |        |
|------------------------------------------|---------|-----|--------|
| Station to                               | Station | L/R | (SqYd) |
| 08DK 57th Street                         |         |     |        |
| 60+00                                    | 66+28   | L   | 422.4  |
| 69+44                                    | 70+10   | L/R | 42.9   |
| Project Total                            |         |     | 465.3  |

| TABLE OF REMOVE CURB AND GUTTER |     |       |
|---------------------------------|-----|-------|
| 01VA Veterans Parkway           |     |       |
| Station                         | L/R | LF    |
| 519+57 to 520+29                | R   | 105   |
| 519+49 to 536+29                | R   | 1702  |
| 536+54 to 537+58                | L   | 104   |
| 536+52 to 537+58                | L   | 105   |
| 541+92 to 548+98                | L   | 706   |
| 541+92 to 548+98                | R   | 706   |
| 01VA Total                      |     | 3,428 |
| 08DK 57th Street                |     |       |
| 55+70 to 56+46                  | R   | 77    |
| 56+87 to 57+83                  | R   | 96    |
| 58+06 to 59+15                  | R   | 111   |
| 59+42 to 66+75                  | R   | 757   |
| 62+22 to 66+30                  | L   | 408   |
| 67+56 to 70+10                  | L   | 254   |
| 08DK Total                      |     | 1,703 |
| Project Total                   |     | 5,131 |

| TABLE OF REMOVE CONCRETE PAVEMENT        |         |     |         |
|------------------------------------------|---------|-----|---------|
| Station to                               | Station | L/R | SqYd    |
| 01VA Veterans Parkway                    |         |     |         |
| 536+30                                   | 543+80  | R   | 1,286.7 |
| 01VA Total                               |         |     | 1,286.7 |
| 08DK 57th Street                         |         |     |         |
| 55+70                                    | 66+30   | R   | 3,119.2 |
| 62+21                                    | 65+82   | L   | 876.8   |
| 69+49                                    | 70+10   | L   | 147.3   |
| 08DK Total                               |         |     | 4,143.3 |
| Project Total                            |         |     | 5,430.0 |
| Quantity includes adjacent curb & gutter |         |     |         |

| TABLE OF REMOVE CONCRETE SIDEWALK |         |     |         |
|-----------------------------------|---------|-----|---------|
| Station to                        | Station | L/R | SqYd    |
| 01VA Veterans Parkway             |         |     |         |
| 536+54                            | 537+58  | L   | 103.3   |
| 01VA Total                        |         |     | 103.3   |
| 08DK 57th Street                  |         |     |         |
| 55+70                             | 66+65   | R   | 554.6   |
| 62+23                             | 66+29   | L   | 237.0   |
| 67+30                             | 69+55   | L   | 217.8   |
| 67+64                             | 69+48   | R   | 101.0   |
| 08DK Total                        |         |     | 1,110.4 |
| Total Project                     |         |     | 1,213.7 |

FOR BIDDING PURPOSES ONLY  
REVISION: 5/26/2016  
INITIAL: JHU

| STATE OF SOUTH DAKOTA | PROJECT                                    | SHEET | TOTAL SHEETS |
|-----------------------|--------------------------------------------|-------|--------------|
|                       | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B10   | B174         |

Plotting Date: 5/28/2026

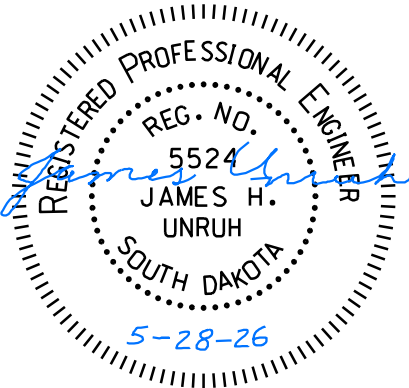
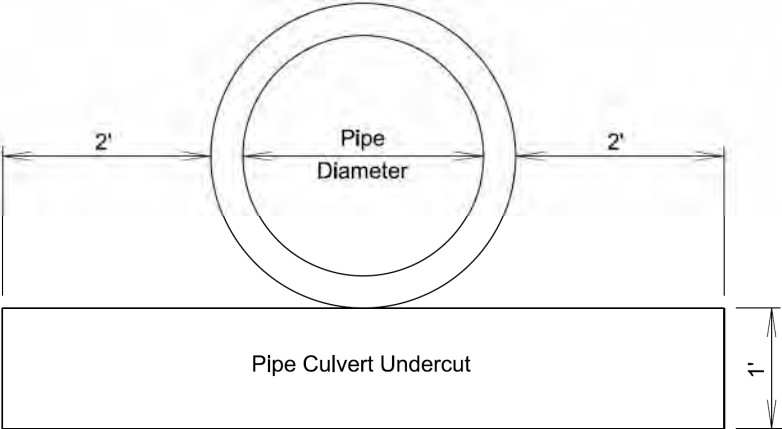
PIPE CULVERT UNDERCUT

Granular material may be required for backfilling the pipe culvert undercut areas where site conditions warrant. Granular material will conform to the gradation requirements in Section 421.2.A of the Specifications and will be paid for at the contract unit price per ton for "Granular Material". A quantity of 150 tons of granular material is included in the estimate of quantities for use where it is determined to be needed. The quantity will be adjusted or eliminated by construction change order, depending on field conditions.

The table below contains the rate for one-foot depth of pipe culvert undercut per foot of pipe length and should be used as an aid in determining the actual amount of undercut to be performed during construction. The table is derived from the drawing below and conforms to the Specifications. When calculating pipe culvert undercut, the length of pipe ends should be included in the overall pipe length.

Storm sewer and approach pipes do not require undercutting unless specified otherwise in these plans.

| Pipe Diameter<br>(In) | Round Pipe Undercut Rate<br>for 1' Depth<br>(CuYd/Ft) | Arch Pipe Undercut Rate<br>for 1' Depth<br>(CuYd/Ft) |
|-----------------------|-------------------------------------------------------|------------------------------------------------------|
| 24                    | 0.2407                                                | 0.2577                                               |
| 30                    | 0.2623                                                | 0.2847                                               |
| 36                    | 0.2840                                                | 0.3110                                               |
| 42                    | 0.3056                                                | 0.3337                                               |
| 48                    | 0.3272                                                | 0.3596                                               |
| 54                    | 0.3488                                                | 0.3827                                               |
| 60                    | 0.3704                                                | 0.4105                                               |
| 66                    | 0.3920                                                | ---                                                  |
| 72                    | 0.4136                                                | 0.4630                                               |
| 78                    | 0.4352                                                | ---                                                  |
| 84                    | 0.4568                                                | 0.5123                                               |
| 90                    | 0.4784                                                | ---                                                  |





| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B11   | B174            |

Plotting Date: 7/22/2026

**PIPE FOR APPROACHES AND INTERSECTING ROADS**

Class 2 reinforced concrete pipe, high density polyethylene pipe, polypropylene pipe (will be in conformance with AASHTO M330), or steel reinforced polyethylene pipe may be substituted for corrugated metal pipe at approaches and intersecting roads at no additional cost to the State.

If corrugated metal pipes are provided, the pipes will be as specified in the CORRUGATED METAL PIPE note.

If high density polyethylene pipe, polypropylene pipe (will be in conformance with AASHTO M330), or steel reinforced polyethylene pipe are provided, then the end sections will be metal, be compatible, and conform to the type of end section as shown in the plans.

**BORE AND JACK STEEL PIPE**

The Contractor will install steel pipe at station 465+90 to 467+51.5 by boring and jacking the pipe through the existing pond embankment. The pipe will be installed by boring and jacking methods as specified herein unless an alternate plan is submitted in writing and approved by the Engineer.

Steel pipe for boring and jacking will meet or exceed the requirements of ASTM A53 Grade B, ASTM A139 Grade B or ASTM A252 Grade 2. Hydrostatic testing will not be required for this application. The pipe will be required to have the minimum wall thickness as shown in the following table:

| Pipe Diameter | Wall Thickness |
|---------------|----------------|
| 48" & below   | 1/2"           |
| 54"           | 5/8"           |
| 60"           | 5/8"           |
| 66"           | 3/4"           |
| 72"           | 3/4"           |

The exterior of the steel pipe will be coated with a fusion bonded epoxy coating and an abrasion resistant overcoat or a two-component coal tar epoxy. The coal tar will meet the requirements of Sherwin-Williams Targuard, Tnemec Hi-Build Tneme-Tar, or an approved equal. Applications of the coatings will be in conformance with the manufacturer's recommendations.

The pipe joints will be welded by a certified welder in accordance with Section 410.3 D of the Specifications. After the welding has been completed, the exposed area will be coated with 3M Scotchkote Liquid Epoxy 328 or a two-component coal tar epoxy meeting the requirements of Sherwin-Williams Targuard, Tnemec Hi-Build Tneme-Tar, or an approved equal.

The jacking pit will be constructed of sufficient size to accommodate equipment and workmen. The pit walls will be sloped or shored to comply with all applicable State and Federal regulations. The Contractor will be responsible for the design of the pit floor and jacking thrust restraint wall to carry the cyclic loads and thrust applied by the Contractor's operation. Water will not be allowed to accumulate in the jacking pit. All components of the jacking pit will be removed after installation of the pipe unless otherwise allowed by the Engineer.

The pipe will be pushed into position from a jacking pit with hydraulic jacks while simultaneously excavating at the forward end of the pipe. Each pipe section will be jacked from the jacking pit as the excavation at the boring head progresses so that the excavation is supported by the boring head or the pipe at all points.

Jacking thrust will be applied to the pipe by means of a yoke or frame designed to distribute the thrust uniformly around the pipe joint. The thrust will be applied to the pipe joint only in the location and only to the maximum force recommended by the pipe manufacturer. The pipe will be jacked into place without visible damage to the pipe or joint.

The boring head excavation will be circular with a maximum diameter equal to the outside diameter of the jacking pipe plus 1 inch. The Contractor will take whatever corrective action is necessary to prevent running, flowing, or squeezing ground conditions at the cutting face from causing large voids or significant loss of soil that may cause surface settlement.

The Contractor will control the alignment and grade of the pipe installation to meet the following tolerances:

1. Maximum horizontal deviation from plan shown alignment will be less than 0.15% of pipe length from the downstream end of pipe to the point of measurement.
2. Maximum vertical deviation from plan shown alignment will be less than 0.075% of pipe length from the downstream end of pipe to the point of measurement.

All material excavated by the boring head for the pipe installation will be disposed of by the Contractor. The excavated material from the boring pit will be used as backfill for the pit and compacted into place to the satisfaction of the Engineer.

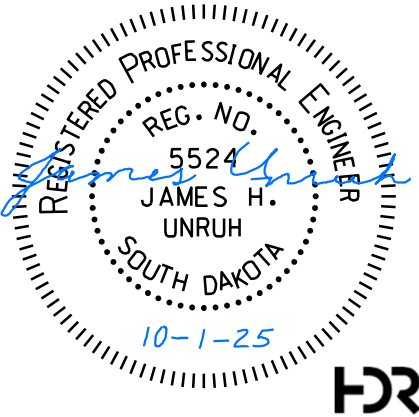
Any settlement, displacement, or other damage to the embankment will be repaired by the Contractor, as directed by the Engineer, at no additional cost.

The Contractor will be aware of the Xcel Energy high pressure natural gas line being crossed with this bore and jack operation. Subsurface Utility Exploration has been conducted (see applicable Section B sheets) to locate the gas line. The Section Z sheets also show the Xcel gas line. The Contractor will contact the Xcel representative listed in the Section B Subsurface Utility sheets in Section B prior to conducting this work.

Payment for furnishing the pipe will be at the contract unit price per foot.

All costs involved with boring and jacking the pipe including labor, equipment, welding, materials (other than the pipe), disposal of waste material, constructing and backfilling the jacking pit, and excavating will be incidental to the contract unit price per foot for the corresponding bore and jack pipe contract item.

| TABLE OF STEEL PIPE                |               |
|------------------------------------|---------------|
|                                    | Bore and Jack |
|                                    | 36"           |
| Station Offset (L/R)               | (Ft)          |
| 01VA Veterans Parkway              |               |
| 465+90 - 901' L to 467+52 - 688' L | 246           |



| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B12   | B174            |

STORM SEWER

Reinforced concrete pipe may be bell and spigot. The pipe sections will be adjoined such that the ends are fully entered and the inner surfaces are reasonably flush and even.

Lift holes in the reinforced concrete pipe will be plugged with grout.

Watertight joints are required for reinforced concrete pipe, drop inlets, manholes, and junction boxes where storm sewers run parallel to and within 10 feet horizontally from existing or proposed water mains.

Watertight joints are required where reinforced concrete pipes, drop inlets, manholes, or junction boxes cross water mains and are separated a distance of 18 inches or less, above or below, the water main.

If watertight joints are required then the watertight joints will extend for a distance of 10 feet beyond the water main. This measurement will be from the sealed concrete joint to the outer most surface of the water main.

Watertight joint seals will conform to the following requirements:

1. Reinforced Concrete Pipe (Circular): Gasketed pipe will conform to the requirements of ASTM C443 and the gasket will be in conformance with Section 990 of the Specifications. Non-gasketed concrete pipe will be sealed with a mastic joint seal conforming to the requirements of ASTM C990 and encased with a minimum 2-foot wide by 6-inch thick M6 concrete collar reinforced with 6x6 W2.9 x W2.9 wire mesh.
2. Reinforced Concrete Pipe (Arch): Gasketed pipe will conform to the requirements of ASTM C443 and the gasket will be in conformance with Section 990 of the Specifications. Non-gasketed concrete pipe joints will be sealed with a hydrophilic flexible water stop seal and wrapped with a 1-foot wide strip of fabric above the cradle. The fabric will conform to the requirements of Section 831 of the Specifications for Type A Drainage Fabric. The hydrophilic flexible water stop will be from the list below.
3. Drop Inlets, Manholes, and Junction Boxes: Joints will be sealed with one of the following methods:

A A flexible strip seal placed in the joints conforming to the requirements of ASTM C990 and the perimeter encased with a minimum 2-foot wide by 6-inch thick M6 concrete collar reinforced with 6x6 W2.9 x W2.9 wire mesh.

B A hydrophilic flexible water stop seal placed in the joints and a 1-foot wide strip of fabric wrapped around the perimeter of the pipe. The fabric will conform to the requirements of Section 831 of the Specifications for Type A Drainage Fabric. The hydrophilic flexible water stop will be from the list below.

C A self-adhesive external joint seal wrap. The seal wrap will be from the list below.

Approved List of Self-adhesive Joint Wrap

| Product           | Manufacturer                                                                                                            |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Mar Mac Seal Wrap | Mar Mac Construction Products<br>McBee, SC<br>843-335-5909<br><a href="http://www.marmac.com">www.marmac.com</a>        |
| ConWrap CS-212    | Concrete Sealants, Inc.<br>Tipp City, OH<br>800-332-7325<br><a href="http://www.conseal.com">http://www.conseal.com</a> |

Approved List of Hydrophilic Flexible Water Stop Seal:

| Product        | Manufacturer                                                                                                            |
|----------------|-------------------------------------------------------------------------------------------------------------------------|
| Waterstop RX   | Cetco<br>Hoffman Estates, IL<br>800-527-9948<br><a href="http://www.cetco.com">www.cetco.com</a>                        |
| Conseal CS-231 | Concrete Sealants, Inc.<br>Tipp City, OH<br>800-332-7325<br><a href="http://www.conseal.com">http://www.conseal.com</a> |

Gaskets and seals (mastic, waterstop, and seal wraps) will be installed in accordance with the Manufacturer's recommendations.

The cost for furnishing and installing all gaskets, mastic joint seal, water stop seal, seal wrap, concrete collars, and for plugging the lift holes will be incidental to the contract unit price per foot for the corresponding pipe contract item.

DROP INLETS

Where drop inlets are constructed within areas of curb and gutter, the Contractor will construct weep holes of at least 3 inches in diameter in the drop inlet walls. The weep holes will be constructed at the same elevation as the adjacent top of the earthen subgrade and will be maintained clean and open at all times until the permanent surfacing is placed. The drop inlets will be covered throughout construction operations as necessary with an Engineer approved cover to provide safe travel for motorists and to prevent materials from entering the storm sewer system. After the permanent surfacing has been placed, the Contractor will seal the weep holes with grout and remove all debris from the drop inlet. All costs involved with the coverings, weep holes, and removing debris from the drop inlets will be incidental to the contract unit prices for the components of the drop inlets.

The plan shown quantities of the drop inlet components such as Class M6 Concrete, Reinforcing Steel, Type B Frame and Grate Assembly, Type C Frame and Grate, and Precast Concrete Type S Drop Inlet Lid will be the basis of payment for these items.

If additions or reductions to the number of drop inlets are ordered by the Engineer, payment for the components required to construct the drop inlets will be made at the contract unit prices for the components of the drop inlets.

TYPE B INLETS

Type B Inlets will be installed at the locations shown on the plans. The Type B Inlet standard plate provided in the plans will be followed for the Type B Inlets. With this being a new standard plate, it is highly encouraged to thoroughly review this new Type B Inlet standard plate to fully understand the new Type B Inlet details.

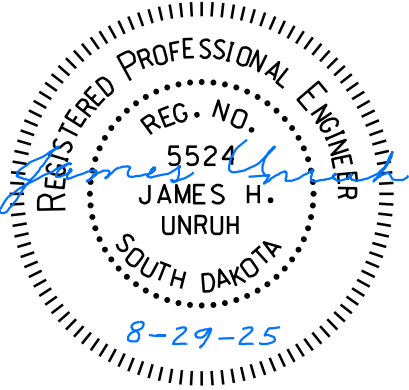
Where continuous Type B frame and grates are to be installed side-by-side for two and three, or more, continuous inlets (see plan views), the Type B frames and grates will be bolted together to make a continuous frame and grate as shown on the standard plate. This is to avoid installing a 6"-12" length of concrete curb between the Type B frames/grates.

The concrete and steel installed for the Type B Inlets will be paid for under the contract unit prices for "Class M6 Concrete" and "Reinforcing Steel" as shown in the table of quantities. Plans quantity will be the basis for payment unless changes are made by the Engineer.

All costs for the frames and grates for the Type B inlets will be included in the contract unit price per each for each frame and grate assembly required. For each frame and grate that is bolted together for continuous inlets, each frame and grate will be paid for separately.

To assist the Contractor with the frame and grates quantities required for the single or continuous Type B Inlets, the following frame and grate quantities are shown in the estimate of quantities; with a further breakdown of these per each inlet shown in the quantity tables. The Contractor will verify these quantities prior to ordering; and will review the standard plate for a detail of each of these frame and grates.

- Type B Frame and Grate Assembly - Left Flange
- Type B Frame and Grate Assembly - No Flange
- Type B Frame and Grate Assembly - Right Flange
- Type B Frame and Grate Assembly - Right & Left Flange





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|-----------------------|--------------------------------------------|-------|--------------|
|                       | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B13   | B174         |

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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 cast iron plates of natural patina (weathered steel). When Type 1 Detectable Warnings are specified, the Contractor will furnish and install only one of the products listed in the Type 1 Detectable Warnings table.

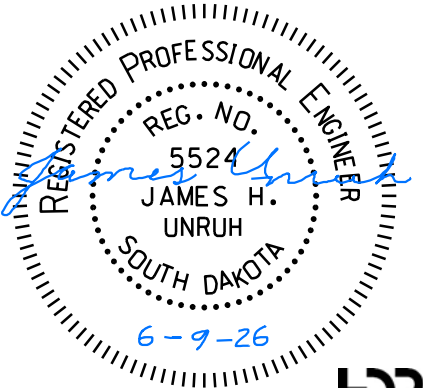
Type 1 Detectable Warnings will be installed along a radius at the locations as shown in the plans. The radius necessary will be as shown in the plans. Payment for the radius detectable warnings will be at the contract unit price per square foot for "Type 1 Detectable Warnings".

Type 1 Detectable Warning Panels with a radius will be one of the following products:

Type 1 Detectable Warnings (Radius)

| Product                                                                                                      | Manufacturer                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detectable Warning Plate<br>Cast Iron Plate<br>9'-5", 15', 20', 25', 35'<br>Radius                           | Neenah Foundry Company<br>Neenah, WI<br>800-558-5075<br><a href="http://www.neenahfoundry.com/">http://www.neenahfoundry.com/</a>                                               |
| Detectable Warning Plate<br>Cast Iron Plate (No<br>Coating)<br>10', 15', 17.5', 20', 25', 30',<br>35' Radius | East Jordan Iron Works, Inc.<br>301 Spring Street<br>East Jordan, MI 49727<br>800-626-4653<br><a href="http://www.ejiw.com">http://www.ejiw.com</a>                             |
| Detectable Warning Plate<br>Cast Iron Plate<br>15', 20', 25', 30' Radius                                     | Iron Dome<br>Cast Iron Detectable<br>Warning Tile<br>15', 20', 25', 30' Radius                                                                                                  |
| Detectable Warning Plate<br>Cast Iron Plate (No<br>Coating)<br>15', 20', 25', 30' Radius                     | ADA Solutions, Inc.<br>323 Andover Street<br>Suite 3<br>Wilmington, MA 01887<br>800-372-0519<br><a href="https://adatile.com">https://adatile.com</a>                           |
| Iron Dome<br>Cast Iron Detectable<br>Warning Tile<br>10', 15', 17.5', 20', 25', 30',<br>35' Radius           | TufTile (wet-set)<br>Cast Iron<br>Replaceable Tile<br>15', 20', 25', 30' Radius                                                                                                 |
| TufTile (wet-set)<br>Cast Iron<br>Replaceable Tile                                                           | Advantage Tactile<br>Detectable Warning<br>Cast Iron Plate<br>10', 15', 17.5', 20', 25', 30',<br>35' Radius                                                                     |
| Advantage Tactile<br>Detectable Warning<br>Cast Iron Plate                                                   | Advantage Tactile Systems, Inc.<br>241 Main Street, Suite 100<br>Buffalo, NY 14203<br>800-679-4022<br><a href="https://advantagetactile.com/">https://advantagetactile.com/</a> |

| Product                                                                                                      | Manufacturer                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detectable Warning Plate<br>Cast Iron Plate<br>9'-5", 15', 20', 25', 35'<br>Radius                           | Neenah Foundry Company<br>Neenah, WI<br>800-558-5075<br><a href="http://www.neenahfoundry.com/">http://www.neenahfoundry.com/</a>                                               |
| Detectable Warning Plate<br>Cast Iron Plate (No<br>Coating)<br>10', 15', 17.5', 20', 25', 30',<br>35' Radius | East Jordan Iron Works, Inc.<br>301 Spring Street<br>East Jordan, MI 49727<br>800-626-4653<br><a href="http://www.ejiw.com">http://www.ejiw.com</a>                             |
| Detectable Warning Plate<br>Cast Iron Plate<br>15', 20', 25', 30' Radius                                     | Iron Dome<br>Cast Iron Detectable<br>Warning Tile<br>15', 20', 25', 30' Radius                                                                                                  |
| Detectable Warning Plate<br>Cast Iron Plate (No<br>Coating)<br>15', 20', 25', 30' Radius                     | ADA Solutions, Inc.<br>323 Andover Street<br>Suite 3<br>Wilmington, MA 01887<br>800-372-0519<br><a href="https://adatile.com">https://adatile.com</a>                           |
| Iron Dome<br>Cast Iron Detectable<br>Warning Tile<br>10', 15', 17.5', 20', 25', 30',<br>35' Radius           | TufTile (wet-set)<br>Cast Iron<br>Replaceable Tile<br>15', 20', 25', 30' Radius                                                                                                 |
| TufTile (wet-set)<br>Cast Iron<br>Replaceable Tile                                                           | Advantage Tactile<br>Detectable Warning<br>Cast Iron Plate<br>10', 15', 17.5', 20', 25', 30',<br>35' Radius                                                                     |
| Advantage Tactile<br>Detectable Warning<br>Cast Iron Plate                                                   | Advantage Tactile Systems, Inc.<br>241 Main Street, Suite 100<br>Buffalo, NY 14203<br>800-679-4022<br><a href="https://advantagetactile.com/">https://advantagetactile.com/</a> |



COLORED CONCRETE FOR SIDEWALKS AND MEDIANS

The Contractor will construct up to three 5'x5' mock-up panels of colored concrete at off-site locations selected by the Engineer at least 60 days prior to starting final placement of the colored concrete. The purpose of these mock-up panels is to refine the color to the satisfaction of the Engineer. The mock-up panels are included in the quantities for the bid item 4" or 6" Barrier Type Colored Median PCC Pavement.

Subject to the Engineer's approval of the mock-up panels, the colored concrete will have the integral color Solomon Rustique #467 or an equal approved by the Engineer. Modification of the color formula may be required based on the results of the initial mock up panel(s).

ColorFlo Liquid Color  
Solomon Rustique #467  
Solomon Colors, Inc.  
[www.solomoncolors.com](http://www.solomoncolors.com)

Rate of Solomon Rustique #467 per cubic yard of concrete will be inaccordance with manufacturer's recommendations. The colored concrete must be cured according to the manufacturer's recommendations with two coats of a non-yellowing acrylic curing and sealing compound. The curing and sealing compound will meet ASTM C309. The curing and sealing product will produce a glossy or high gloss finish and be DECRA-SEAL or CS-309-30 or an approved equal.

DECRA-SEAL or CS-309-30  
W.R. Meadows, Inc.  
1-800-342-5976  
<http://www.wrmeadows.com>

White pigmented cure will not be used. The Contractor will protect the colored concrete to ensure white pigmented curing compound will not come in contact with the colored concrete. All costs for furnishing, handling, applying the curing and sealing compound, and liquid integral color, including the materials, equipment, labor, and incidentals necessary will be incidental to the contract unit price for the colored concrete bid item.

TABLE OF SUPERELEVATION

| Station to | Station |             |                                                        |
|------------|---------|-------------|--------------------------------------------------------|
| 429+31.37  | 431+85  | WB<br>lanes | * Superelevation Transition                            |
| 431+85     | 468+99  |             | 3,400' Radius Curve Left                               |
|            |         |             | 4.0% Superelevation Rate                               |
|            |         |             | * Point of Rotation at inside lane line                |
| 468+99     | 470+60  |             | Superelevation Transition                              |
| 470+60     | 473+00  |             | 1.0% Left Section                                      |
| 473+00     | 473+54  |             | Superelevation Transition                              |
| 473+54     | 496+96  |             | * Normal Section                                       |
| 496+96     | 498+03  |             | Superelevation Transition                              |
| 498+03     | 515+26  |             | 3,400' Radius Curve Right                              |
|            |         |             | 4.0% Superelevation Rate                               |
|            |         |             | * Point of Rotation at edge of concrete median barrier |
| 515+26     | 516+33  | EB<br>lanes | Superelevation Transition                              |
| 516+33     | 517+40  |             | * Normal Section                                       |
| 517+40     | 517+94  |             | Superelevation Transition                              |
| 517+94     | 520+46  |             | * Normal Section                                       |
| 520+46     | 521+96  |             | Superelevation Transition                              |
| 521+96     | 538+73  |             | * Normal Section                                       |
| 429+31.37  | 431+85  |             | * Superelevation Transition                            |
| 431+85     | 468+99  |             | 3,400' Radius Curve Left                               |
|            |         |             | 4.0% Superelevation Rate                               |
|            |         |             | * Point of Rotation at inside lane line                |
| 468+99     | 470+60  |             | Superelevation Transition                              |
| 470+60     | 473+00  |             | 1.0% Left Section                                      |
| 473+00     | 474+59  |             | Superelevation Transition                              |
|            |         |             | * Normal Section                                       |
| 474+59     | 494+82  |             | Superelevation Transition                              |
| 494+82     | 498+03  |             | 3,400' Radius Curve Left                               |
| 498+03     | 515+26  |             | 4.0% Superelevation Rate                               |
|            |         |             | * Point of Rotation at inside lane line                |
| 515+26     | 517+94  |             | Superelevation Transition                              |
| 517+94     | 520+46  |             | * Normal Section                                       |
| 520+46     | 521+96  |             | Superelevation Transition                              |
| 521+96     | 538+73  |             | * Normal Section                                       |

\* See Section F plans for superelevation details, especially axis of rotation and slope transitions at intersections.

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|-----------------------|--------------------------------------------|-------|--------------|
|                       | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B14   | B174         |

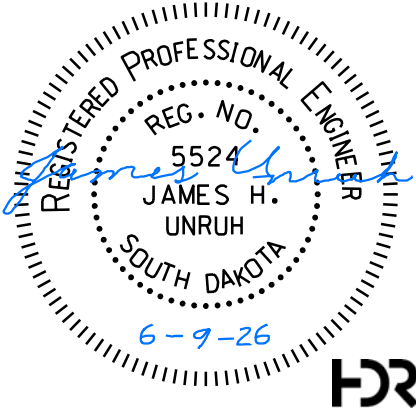
Plotting Date: 6/9/2026

PROTECTION OF EXISTING WATER MAIN, SANITARY SEWER, AND STORM SEWER SYSTEMS

For the protection of existing public underground utilities and the surrounding work area, consideration will be given to isolating portions of the existing water distribution system within the construction limits while maintaining fire protection. During underground utility installation such as, but not limited to, sanitary sewer, water main, storm sewer, sump pump drain, etc., in the proximity of existing water main and/or water services, the existing water main distribution will be isolated within the work area. Upon receiving notice from the Contractor 24 hours in advance of any work, City staff will operate designated water valves, where appropriate, to isolate the work area as much as reasonably possible. The Contractor will become aware of the location and status (open/closed) of any designated isolation valve(s). Sioux Falls Water Maintenance staff will be notified immediately in the event of a water service emergency or interruption. It will be permissible for the Contractor to operate the designated valve(s) in the event of a water main or water service failure within the construction area. The Contractor is required to have a valve operating key on site in the event of such a failure. Sioux Falls Water Maintenance (367-8810) will be notified immediately after the shutdown. City crews will operate the valves after repairs have been made and inspections have been completed.

Existing sanitary sewer lines and manholes within the construction limits will be protected at all times during construction. The upstream ends of existing sanitary sewer lines downstream from new sanitary sewer construction will be plugged at locations to be approved by the Engineer. Water, stone, dirt, gravel, asphalt, concrete or any other debris will not be allowed to enter the City's sanitary sewer system during flushing operations or at any other time. Construction taking place in the vicinity of any existing City sanitary sewer lines or manholes will not cause any inflow of surface water, ground water, water from damaged water lines, or debris to enter the City's sanitary sewer system. The Contractor will be responsible for any damages or costs incurred to the City's sanitary sewer system, Water Reclamation Division, and/or private property, and any actions imposed by SDDANR due to spills, overflows, inflows, lift station surcharges, City Water discharge, sanitary sewer discharges to surface waters, sanitary sewer backups into homes, etc.

Existing storm sewer inlets and pipes within the construction limits will be protected from the entrance of stone, dirt, gravel, asphalt, concrete or any other debris during construction. The SWPPP must be followed at all times.





**PUBLIC LANDS SURVEY SYSTEM, RIGHT OF WAY, AND PROPERTY CORNERS**

The Contractor will have a Land Surveyor, licensed in the State of South Dakota, to set, reestablish or verify public land survey system (PLSS) corners, right of way (ROW) corners, and property corners as directed by the appropriate SDDOT Region Land Surveyor. It is estimated that 1 PLSS corners and 115 ROW and property corners will be set, reestablished, or verified for this project. The Contractor's Land Surveyor, under the direction of the Region Land Surveyor, will set, reestablish, or verify all corner monuments after surfacing and fencing operations are completed in accordance with the PUBLIC LANDS SURVEY SYSTEM CORNERS section and the RIGHT OF WAY AND PROPERTY CORNERS section in Chapter 8 of the SDDOT Survey Manual.

< <https://dot.sd.gov/doing-business/engineering/design-services/surveyors> >

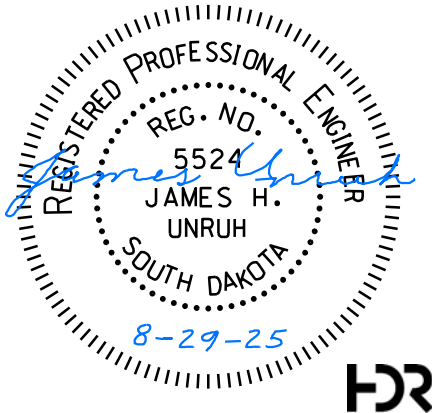
The SDDOT Region Land Surveyor will furnish the ROW corner caps, property corner caps, and guard posts for ROW corners in rural areas. All costs associated with furnishing and installing rebar, PLSS corner caps, and all other materials associated with setting, reestablishing, or verifying PLSS corners, ROW corners, and property corners in accordance with the SDDOT Survey Manual will be incidental to the contract unit price per each for "Reestablish Public Land Survey System Corner" and/or "Reestablish Right-of-Way and Property Corner".

**CONCRETE RIGHT OF WAY MARKER**

The Concrete Right of Way Marker and installation locations will conform to the details on standard plate 900.15. Install Concrete Right of Way Markers 10 feet from both sides of entrances that are centered on property lines without fence, so that a marker is not placed in the entrance.

| TABLE OF CONCRETE RIGHT OF WAY MARKERS |           |          |         |           |          |
|----------------------------------------|-----------|----------|---------|-----------|----------|
| 01VA (Veterans Parkway)                |           |          |         |           |          |
| Point #                                | Sta       | L/R      | Point # | Sta       | L/R      |
| 8340                                   | 432+89.30 | 120.00 L | 8687    | 472+34.62 | 85.00 L  |
| 8538                                   | 437+15.67 | 131.63 R | 8273    | 472+52.76 | 115.00 R |
| 8540                                   | 437+15.67 | 115.00 R | 8271    | 476+45.50 | 85.00 L  |
| 8676                                   | 438+00.00 | 120.00 L | 8864    | 476+94.10 | 115.00 R |
| 8535                                   | 440+52.06 | 131.63 R | 8714    | 477+03.39 | 117.00 L |
| 8798                                   | 441+96.01 | 134.80 R | 8272    | 477+39.03 | 115.00 R |
| 8797                                   | 443+46.36 | 146.98 R | 8715    | 478+16.56 | 125.00 R |
| 8677                                   | 443+50.00 | 144.00 L | 8730    | 479+42.12 | 111.00 L |
| 8264                                   | 447+63.00 | 165.00 L | 8716    | 480+79.25 | 125.00 R |
| 8659                                   | 448+34.94 | 193.91 R | 8731    | 480+89.28 | 111.00 L |
| 8660                                   | 449+08.99 | 168.00 R | 8732    | 480+89.28 | 103.00 L |
| 8265                                   | 449+37.00 | 165.00 L | 8695    | 483+51.44 | 146.00 R |
| 8678                                   | 449+78.52 | 124.45 L | 8696    | 483+51.44 | 125.00 R |
| 8679                                   | 451+50.00 | 117.00 L | 8702    | 485+63.83 | 103.00 L |
| 8753                                   | 452+75.00 | 168.00 R | 8693    | 487+21.44 | 115.00 R |
| 8661                                   | 453+25.00 | 115.00 R | 8694    | 487+21.44 | 146.00 R |
| 8263                                   | 454+72.68 | 100.00 L | 8733    | 491+36.83 | 103.00 L |
| 8073                                   | 456+01.81 | 115.00 R | 8083    | 491+45.25 | 85.00 L  |
| 8736                                   | 458+05.32 | 100.00 L | 8725    | 492+38.72 | 115.00 R |
| 8282                                   | 461+80.27 | 115.00 R | 8637    | 493+45.39 | 85.00 L  |
| 8283                                   | 461+93.94 | 85.00 L  | 8724    | 496+89.78 | 115.00 R |
| 8735                                   | 461+95.03 | 100.00 L | 8723    | 499+63.79 | 156.84 R |
| 8849                                   | 462+15.00 | 173.00 R | 8718    | 501+11.57 | 176.71 L |
| 8850                                   | 462+15.00 | 115.00 R | 8719    | 503+54.52 | 184.82 L |
| 8847                                   | 462+46.00 | 115.00 R | 8722    | 505+19.73 | 230.93 R |
| 8848                                   | 462+46.00 | 173.00 R | 8720    | 505+23.88 | 184.95 L |
| 8280                                   | 466+55.00 | 180.00 R | 8728    | 505+44.57 | 365.92 R |
| 8281                                   | 466+55.00 | 115.00 R | 8081    | 505+70.07 | 184.09 L |
| 8284                                   | 466+71.59 | 85.00 L  | 8726    | 506+61.04 | 329.64 R |
| 8285                                   | 466+71.59 | 115.00 L | 8908    | 510+27.36 | 196.10 L |
| 8278                                   | 466+90.00 | 115.00 R | 8906    | 511+05.17 | 221.89 R |
| 8279                                   | 466+90.00 | 180.00 R | 8913    | 512+73.35 | 369.88 R |
| 8286                                   | 467+02.64 | 115.00 L | 8909    | 515+13.65 | 195.82 L |
| 8287                                   | 467+02.64 | 85.00 L  | 8914    | 518+26.74 | 414.98 R |
| 8277                                   | 469+63.67 | 115.00 R | 1178    | 518+29.41 | 203.52 L |
| 8288                                   | 469+63.67 | 85.00 L  | 8767    | 518+88.74 | 238.73 L |
| 8686                                   | 470+84.29 | 85.00 L  | 8768    | 518+94.42 | 292.20 L |
| 8276                                   | 470+97.43 | 115.00 R | 8765    | 519+10.08 | 369.08 L |
| 8090                                   | 471+06.10 | 134.38 L |         |           |          |
| 8756                                   | 472+13.87 | 141.45 L |         |           |          |

| TABLE OF CONCRETE RIGHT OF WAY MARKERS CONTINUED |            |          |         |            |          |
|--------------------------------------------------|------------|----------|---------|------------|----------|
| 01VA (SD 11)                                     |            |          |         |            |          |
| Point #                                          | Sta        | L/R      | Point # | Sta        | L/R      |
| 8867                                             | 1139+12.90 | 80.00 L  | 8879    | 1147+80.00 | 104.00 R |
| 8091                                             | 1139+79.00 | 120.00 R | 8776    | 1151+57.52 | 115.00 L |
| 8859                                             | 1139+79.00 | 75.00 R  | 8777    | 1152+68.11 | 371.36 L |
| 8712                                             | 1140+09.00 | 120.00 R | 8293    | 1156+34.40 | 115.00 L |
| 8274                                             | 1140+10.00 | 80.00 L  | 8302    | 1158+45.00 | 135.00 R |
| 8757                                             | 1140+10.00 | 112.96 L | 8763    | 1158+45.00 | 95.00 R  |
| 8689                                             | 1140+40.00 | 104.00 R | 8059    | 1162+16.08 | 90.00 L  |
| 8692                                             | 1140+51.35 | 112.96 L | 8760    | 1162+57.97 | 135.00 R |
| 8690                                             | 1140+96.82 | 112.96 L | 8713    | 1162+61.84 | 100.00 R |
| 8691                                             | 1140+98.36 | 101.74 L | 8157    | 1164+43.01 | 90.00 L  |
| 8688                                             | 1141+36.95 | 104.00 R | 8838    | 1164+43.01 | 100.00 R |
| 8703                                             | 1142+31.81 | 79.00 L  | 8795    | 1166+32.20 | 100.00 R |
| 8295                                             | 1142+92.76 | 79.00 L  | 8555    | 1166+32.29 | 90.00 L  |
| 8296                                             | 1142+92.76 | 104.00 R | 8840    | 1166+65.20 | 100.00 R |
| 8758                                             | 1146+21.67 | 161.13 L | 8844    | 1166+98.29 | 90.00 L  |
| 8301                                             | 1146+32.01 | 79.00 L  | 8841    | 1167+70.00 | 75.00 R  |
| 8761                                             | 1147+58.34 | 186.66 L | 8842    | 1167+70.00 | 100.00 R |
| 8762                                             | 1147+72.47 | 115.00 L | 8845    | 1167+70.00 | 90.00 L  |
| 8878                                             | 1147+80.00 | 95.00 R  | 8846    | 1167+70.00 | 75.00 L  |
| Total 01VA Veterans Parkway (each)               |            |          |         | 116        |          |





FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B16   | B174            |

Plotting Date: 5/28/2026

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INITIAL: JHU

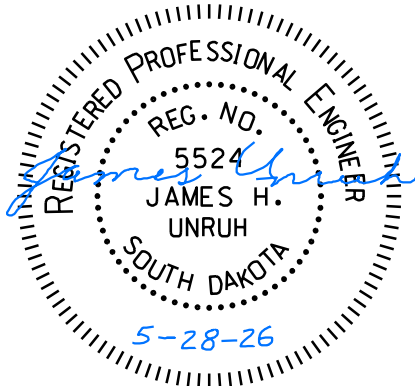
TABLE OF CONSTRUCTION STAKING (See Special Provision for Contractor Staking specifications)

| Roadway or Description                      | Begin Station | End Station | Number of Lanes | Length (Ft) | Grade Staking               |             |                  |                         | Misc Staking (Mile) | Slope Staking (Mile) | Final Cross Section Survey (Mile) | Structure Staking (Each) |
|---------------------------------------------|---------------|-------------|-----------------|-------------|-----------------------------|-------------|------------------|-------------------------|---------------------|----------------------|-----------------------------------|--------------------------|
|                                             |               |             |                 |             | Length (Mile)               | Lane Factor | * Sets of Stakes | ** Grade Staking (Mile) |                     |                      |                                   |                          |
|                                             |               |             |                 |             |                             |             |                  |                         |                     |                      |                                   |                          |
| 01VA Veterans Parkway                       |               |             |                 |             |                             |             |                  |                         |                     |                      |                                   |                          |
| 9 lane section                              | 430+00        | 432+79      | 9               | 279         | 0.053                       | 4.5         | 2                | 0.476                   | 0.053               | 0.053                | 0.053                             |                          |
| Transition 9 to 6 lanes                     | 432+79        | 434+00      | 9               | 121         | 0.023                       | 4.5         | 2                | 0.206                   | 0.023               | 0.023                | 0.023                             |                          |
| 6 lane section                              | 434+00        | 465+80      | 6               | 3,180       | 0.602                       | 3           | 2                | 3.614                   | 0.602               | 0.602                | 0.602                             |                          |
| Transition 6 to 9 lanes                     | 465+80        | 467+00      | 9               | 120         | 0.023                       | 4.5         | 2                | 0.205                   | 0.023               | 0.023                | 0.023                             |                          |
| 9 lane section                              | 467+00        | 477+40      | 9               | 1,040       | 0.197                       | 4.5         | 2                | 1.773                   | 0.197               | 0.197                | 0.197                             |                          |
| Transition 9 to 6 lanes                     | 477+40        | 479+77      | 9               | 237         | 0.045                       | 4.5         | 2                | 0.404                   | 0.045               | 0.045                | 0.045                             |                          |
| 6 lane section                              | 479+77        | 512+30      | 6               | 3,253       | 0.616                       | 3           | 2                | 3.697                   | 0.616               | 0.616                | 0.616                             |                          |
| Transition 6 to 9 lanes                     | 512+30        | 513+48      | 9               | 118         | 0.022                       | 4.5         | 2                | 0.201                   | 0.022               | 0.022                | 0.022                             |                          |
| 9 lane section                              | 513+48        | 525+00      | 9               | 1,152       | 0.218                       | 4.5         | 2                | 1.964                   | 0.218               | 0.218                | 0.218                             |                          |
| Transition 9 to 6 lanes                     | 525+00        | 526+20      | 9               | 120         | 0.023                       | 4.5         | 2                | 0.205                   | 0.023               | 0.023                | 0.023                             |                          |
| 6 lane section                              | 526+20        | 538+73      | 6               | 1,253       | 0.237                       | 3           | 2                | 1.424                   | 0.237               | 0.237                | 0.237                             |                          |
| Add C&G Section                             | 538+73        | 543+80      | 1               | 507         | 0.096                       | 0.5         | 2                | 0.096                   | 0.096               | 0.096                | 0.096                             |                          |
| (5) 10'x5' Box Culvert                      | 448+16        |             |                 |             |                             |             |                  |                         |                     |                      |                                   | 1                        |
| 12'x10' Box Culvert                         | 449+00        |             |                 |             |                             |             |                  |                         |                     |                      |                                   | 1                        |
| (4) 10'x5' Box Culvert                      | 480+05        |             |                 |             |                             |             |                  |                         |                     |                      |                                   | 1                        |
| (2) 12'x5' Box Culvert                      | 504+92        |             |                 |             |                             |             |                  |                         |                     |                      |                                   | 1                        |
| 12'x5' Box Culvert                          | 522+79        |             |                 |             |                             |             |                  |                         |                     |                      |                                   | 1                        |
| Borrow Pit 5                                | 462+00        | 471+00      |                 | 900         | 0.170                       |             |                  |                         | 0.170               |                      |                                   |                          |
| Borrow Pit 5                                | 472+15        | 476+80      |                 | 465         | 0.088                       |             |                  |                         | 0.088               |                      |                                   |                          |
| 01VA SD Highway 11                          |               |             |                 |             |                             |             |                  |                         |                     |                      |                                   |                          |
| 7 lane section                              | 1136+19       | 1139+50     | 7               | 331         | 0.063                       | 3.5         | 2                | 0.439                   | 0.063               | 0.063                | 0.063                             |                          |
| Transition 7 to 4 lanes                     | 1139+50       | 1140+70     | 7               | 120         | 0.023                       | 3.5         | 2                | 0.159                   | 0.023               | 0.023                | 0.023                             |                          |
| 4 lane section                              | 1140+70       | 1143+14     | 4               | 244         | 0.046                       | 2           | 2                | 0.185                   | 0.046               | 0.046                | 0.046                             |                          |
| Transition 4 to 6 lanes                     | 1143+14       | 1143+92     | 6               | 78          | 0.015                       | 3           | 2                | 0.089                   | 0.015               | 0.015                | 0.015                             |                          |
| 6 lane section                              | 1143+92       | 1149+43     | 6               | 551         | 0.104                       | 3           | 2                | 0.626                   | 0.104               | 0.104                | 0.104                             |                          |
| Transition 6 to 4 lanes                     | 1149+43       | 1151+20     | 6               | 177         | 0.034                       | 3           | 2                | 0.201                   | 0.034               | 0.034                | 0.034                             |                          |
| 4 lane section                              | 1151+20       | 1163+00     | 4               | 1,180       | 0.223                       | 2           | 2                | 0.894                   | 0.223               | 0.223                | 0.223                             |                          |
| Transition 4 to 5 lanes                     | 1163+00       | 1164+20     | 5               | 120         | 0.023                       | 2.5         | 2                | 0.114                   | 0.023               | 0.023                | 0.023                             |                          |
| 5 lane section                              | 1164+20       | 1166+87     | 5               | 267         | 0.051                       | 2.5         | 2                | 0.253                   | 0.051               | 0.051                | 0.051                             |                          |
| 4 lane section                              | 1166+87       | 1167+60     | 4               | 73          | 0.014                       | 2           | 2                | 0.055                   | 0.014               | 0.014                | 0.014                             |                          |
| Transition 4 to 2 lanes                     | 1167+60       | 1169+47     | 4               | 187         | 0.035                       | 2           | 2                | 0.142                   | 0.035               | 0.035                | 0.035                             |                          |
| (5) 10'x5' Box Culvert                      | 1140+69       |             |                 |             |                             |             |                  |                         |                     |                      |                                   | 1                        |
| Pond H                                      | 1151+52       | 1156+45     |                 | 493         | 0.093                       |             |                  |                         | 0.093               |                      |                                   |                          |
| 01VA 69th Street/County Road 102 Connection |               |             |                 |             |                             |             |                  |                         |                     |                      |                                   |                          |
| 3 lane section                              | 900+47        | 912+69      | 3               | 1,222       | 0.231                       | 1.5         | 1                | 0.347                   | 0.231               | 0.231                | 0.231                             |                          |
|                                             |               |             |                 |             | Total 01VA Veterans Parkway |             |                  | 17.766                  | 3.369               | 3.017                | 3.017                             | 6                        |

\* 1 = Blue Top Stakes Only (Asphalt Concrete Pavement)

\* 2 = Blue Top and Paving Hub Stakes (PCC Pavement)

\*\* Grade Staking Quantity = (Length) x (Lane Factor) x (Sets of Stakes)



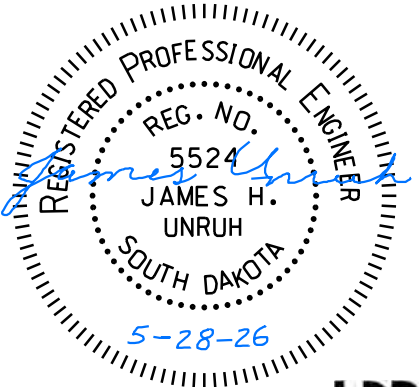


Plotting Date: 5/28/2026

REV. DATE: 5-28-2026  
INITIAL: JHU

| TABLE OF CONSTRUCTION STAKING (See Special Provision for Contractor Staking specifications) |               |             |                 |             |                        |             |                  |                         |                     |                      |                                   |                          |
|---------------------------------------------------------------------------------------------|---------------|-------------|-----------------|-------------|------------------------|-------------|------------------|-------------------------|---------------------|----------------------|-----------------------------------|--------------------------|
| Roadway or Description                                                                      | Begin Station | End Station | Number of Lanes | Length (Ft) | Grade Staking          |             |                  |                         | Misc Staking (Mile) | Slope Staking (Mile) | Final Cross Section Survey (Mile) | Structure Staking (Each) |
|                                                                                             |               |             |                 |             | Length (Mile)          | Lane Factor | * Sets of Stakes | ** Grade Staking (Mile) |                     |                      |                                   |                          |
| 08DK 57th Street                                                                            |               |             |                 |             |                        |             |                  |                         |                     |                      |                                   |                          |
| 2 lane section                                                                              | 55+70         | 60+00       | 2               | 430         | 0.081                  | 1           | 2                | 0.163                   | 0.081               | 0.081                | 0.081                             |                          |
| Transition 2 to 4 lanes                                                                     | 60+00         | 61+20       | 4               | 120         | 0.023                  | 2           | 2                | 0.091                   | 0.023               | 0.023                | 0.023                             |                          |
| Transition 4 to 5 lanes                                                                     | 61+20         | 62+20       | 5               | 100         | 0.019                  | 2.5         | 2                | 0.095                   | 0.019               | 0.019                | 0.019                             |                          |
| 7 lane section                                                                              | 62+20         | 64+41       | 7               | 221         | 0.042                  | 3.5         | 2                | 0.293                   | 0.042               | 0.042                | 0.042                             |                          |
| 7 lane section                                                                              | 65+58         | 68+89       | 7               | 331         | 0.063                  | 3.5         | 2                | 0.439                   | 0.063               | 0.063                | 0.063                             |                          |
| Transition 7 to 4 lanes                                                                     | 68+89         | 70+09       | 7               | 120         | 0.023                  | 3.5         | 2                | 0.159                   | 0.023               | 0.023                | 0.023                             |                          |
|                                                                                             |               |             |                 |             | Total 08DK 57th Street |             |                  | 1.239                   | 0.250               | 0.250                | 0.250                             | 0                        |
| 08DJ 69th Street                                                                            |               |             |                 |             |                        |             |                  |                         |                     |                      |                                   |                          |
| 2 lane section                                                                              | 1109+50       | 1115+00     | 2               | 550         | 0.104                  | 1           | 1                | 0.104                   | 0.104               | 0.104                | 0.104                             |                          |
| Transision 2 to 4 lanes                                                                     | 1115+00       | 1117+99     | 4               | 299         | 0.057                  | 2           | 1                | 0.113                   | 0.057               | 0.057                | 0.057                             |                          |
| 4 lane section                                                                              | 1117+99       | 1119+33     | 4               | 134         | 0.025                  | 2           | 1                | 0.051                   | 0.025               | 0.025                | 0.025                             |                          |
| Transition 4 to 5 lanes                                                                     | 1119+33       | 1120+51     | 5               | 118         | 0.022                  | 2.5         | 1                | 0.056                   | 0.022               | 0.022                | 0.022                             |                          |
| 5 lane section                                                                              | 1120+51       | 1124+73     | 5               | 422         | 0.080                  | 2.5         | 1                | 0.200                   | 0.080               | 0.080                | 0.080                             |                          |
| Transision 5 to 4                                                                           | 1124+73       | 1125+92     | 4               | 119         | 0.023                  | 2           | 1                | 0.045                   | 0.023               | 0.023                | 0.023                             |                          |
| 4 lane section                                                                              | 1125+92       | 1130+60     | 4               | 468         | 0.089                  | 2           | 1                | 0.177                   | 0.089               | 0.089                | 0.089                             |                          |
| Transition 4 to 5 lanes                                                                     | 1130+60       | 1131+80     | 5               | 120         | 0.023                  | 2.5         | 1                | 0.057                   | 0.023               | 0.023                | 0.023                             |                          |
| 5 lane section                                                                              | 1131+80       | 1133+09     | 5               | 129         | 0.024                  | 2.5         | 1                | 0.061                   | 0.024               | 0.024                | 0.024                             |                          |
| Transition 5 to 6 lanes                                                                     | 1133+09       | 1133+89     | 6               | 80          | 0.015                  | 3           | 1                | 0.045                   | 0.015               | 0.015                | 0.015                             |                          |
| 6 lane section                                                                              | 1133+89       | 1134+47     | 6               | 58          | 0.011                  | 3           | 1                | 0.033                   | 0.011               | 0.011                | 0.011                             |                          |
|                                                                                             |               |             |                 |             | Total 08DJ 69th Street |             |                  | 0.943                   | 0.473               | 0.473                | 0.473                             | 0                        |
|                                                                                             |               |             |                 |             | Total 01VA             |             |                  | 17.766                  | 3.369               | 3.017                | 3.017                             | 6                        |
|                                                                                             |               |             |                 |             | Total 08DK 57th Street |             |                  | 1.239                   | 0.250               | 0.250                | 0.250                             | 0                        |
|                                                                                             |               |             |                 |             | Total Project          |             |                  | 19.948                  | 4.092               | 3.740                | 3.740                             | 6                        |

\* 1 = Blue Top Stakes Only (Asphalt Concrete Pavement)  
\* 2 = Blue Top and Paving Hub Stakes (PCC Pavement)  
\*\* Grade Staking Quantity = (Length) x (Lane Factor) x (Sets of Stakes)

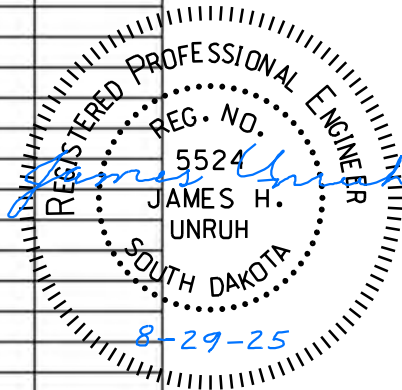




FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B18   | B174            |

| CURB AND GUTTER, FILLET, COLORED MEDIAN, AND SIDEWALK QUANTITIES |                   |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|------------------------------------------------------------------|-------------------|---------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------------------------------|---------|--------------|---------------|--------------------------|-----------------------------|---------------|------------|---------------------------------------------|--------------------------|-------------------|------------|------------|--------------------------------|
| Roadway                                                          | Station to        | Station | L/R | Concrete Curb & Gutter<br>(City Type B66 C&G paid for as "Modified Type B66 Concrete C&G")<br>(City Type P6 C&G paid for as "Modified Type P6 Concrete Gutter")<br>(City Type B69 C&G paid for as "Modified Type B69 Concrete C&G")<br>(City Type BL66 C&G paid for as "Type BL66 Concrete C&G") |                |          |                                        |         |              |               | PCC<br>Fillet<br>Section | PCC<br>Approach<br>Pavement | Valley Gutter |            | Barrier Type Colored Median<br>PCC Pavement |                          | Concrete Sidewalk |            |            | Detectable<br>Warning<br>Panel |
|                                                                  |                   |         |     | SDDOT Type Curb & Gutter                                                                                                                                                                                                                                                                         |                |          | City of Sioux Falls Type Curb & Gutter |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  |                   |         |     | Type F<br>610                                                                                                                                                                                                                                                                                    | Type FL<br>610 | Type P10 | Type B<br>66                           | Type P6 | Type B<br>69 | Type BL<br>69 |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  |                   |         |     | Ft                                                                                                                                                                                                                                                                                               | Ft             | Ft       | Ft                                     | Ft      | Ft           | Ft            | 6"<br>SqYd               | 6"<br>SqYd                  | 6"<br>SqYd    | 8"<br>SqYd | 6"<br>SqYd                                  | 4" (Splashguard)<br>SqYd | 4"<br>SqFt        | 6"<br>SqFt | 8"<br>SqFt | Type 1<br>SqFt                 |
| 01VA<br>Veterans<br>Parkway                                      | 430+00            | 471+26  | L   | 4,099                                                                                                                                                                                                                                                                                            |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 430+00            | 470+57  | L/R | 400                                                                                                                                                                                                                                                                                              | 3,643          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 430+00            | 470+57  | L/R | 4,075                                                                                                                                                                                                                                                                                            |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 430+00            | 471+32  | R   | 408                                                                                                                                                                                                                                                                                              | 3,815          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 471+98            | 518+90  | L   | 4,714                                                                                                                                                                                                                                                                                            |                |          |                                        |         | 28           |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 472+98            | 518+17  | L/R | 400                                                                                                                                                                                                                                                                                              | 4,113          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 472+98            | 518+17  | L/R | 2,237                                                                                                                                                                                                                                                                                            | 2,291          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 472+31            | 517+40  | R   | 2,878                                                                                                                                                                                                                                                                                            | 1,657          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 517+40            | 518+69  | R   | 163                                                                                                                                                                                                                                                                                              |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 519+86            | 538+73  | L   | 1,921                                                                                                                                                                                                                                                                                            |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 520+46            | 538+73  | L/R |                                                                                                                                                                                                                                                                                                  | 1,830          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 520+46            | 538+73  | R   |                                                                                                                                                                                                                                                                                                  | 1,828          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 519+65            | 543+80  | R   | 2,438                                                                                                                                                                                                                                                                                            |                |          |                                        |         | 27           |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 430+00            | 433+19  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 113.6      |                                             |                          |                   |            |            |                                |
|                                                                  | 433+19            | 466+55  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 738.9                                       |                          |                   |            |            |                                |
|                                                                  | 433+19            | 466+55  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 744.2                                       |                          |                   |            |            |                                |
|                                                                  | 466+55            | 470+53  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 138.0      |                                             |                          |                   |            |            |                                |
|                                                                  | 473+03            | 478+99  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 195.9      |                                             |                          |                   |            |            |                                |
|                                                                  | 478+99            | 513+04  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 755.8                                       |                          |                   |            |            |                                |
|                                                                  | 478+99            | 513+04  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 758.1                                       |                          |                   |            |            |                                |
|                                                                  | 513+04            | 518+12  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 170.4      |                                             |                          |                   |            |            |                                |
|                                                                  | 520+50            | 525+43  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 165.2      |                                             |                          |                   |            |            |                                |
|                                                                  | 525+43            | 538+73  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 296.1                                       |                          |                   |            |            |                                |
|                                                                  | 525+43            | 538+73  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 295.6                                       |                          |                   |            |            |                                |
|                                                                  | 536+54            | 537+58  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        | 104     |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 536+53            | 537+58  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        | 105     |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 536+54            | 537+58  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   | 930        |            |                                |
|                                                                  | 541+92            | 548+98  | L   |                                                                                                                                                                                                                                                                                                  |                | 706      |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | 541+92            | 548+98  | R   |                                                                                                                                                                                                                                                                                                  |                | 706      |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |
|                                                                  | NW Veterans& SD11 |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   | 649        |            | 32                             |
|                                                                  | NE Veterans& SD11 |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   | 654        |            | 32                             |
|                                                                  | SW Veterans& SD11 |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   | 562        |            | 32                             |
| SE Veterans& SD11                                                |                   |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 583               |            | 32         |                                |
| NW Veterans& 57th Street                                         |                   |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 453               |            | 32         |                                |
| NE Veterans& 57th Street                                         |                   |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 878               |            | 32         |                                |
| SW Veterans& 57th Street                                         |                   |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 691               |            | 32         |                                |
| SE Veterans& 57th Street                                         |                   |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 571               |            | 32         |                                |
| Subtotal this page:                                              |                   |         |     | 23,733                                                                                                                                                                                                                                                                                           | 20,589         | 0        | 209                                    | 0       | 55           | 0             | 0.0                      | 0.0                         | 0             | 0          | 783.1                                       | 3,588.7                  | 0                 | 5,971      | 256        |                                |

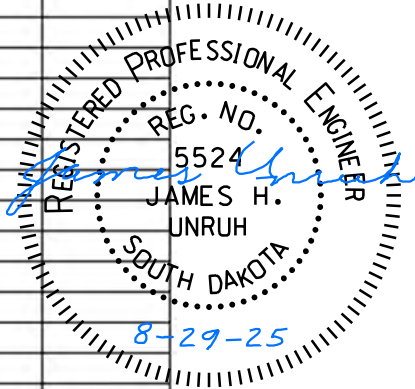




FOR BIDDING PURPOSES ONLY

|                             |                          |       |                 |
|-----------------------------|--------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                  | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411          | B19   | B174            |
|                             | P 1440(00) & P 14732(00) |       |                 |

| CURB AND GUTTER, FILLET, COLORED MEDIAN, AND SIDEWALK QUANTITIES (CONTINUED) |                       |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|------------------------------------------------------------------------------|-----------------------|---------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------------------------------|---------|--------------|---------------|--------------------------|-----------------------------|---------------|------------|---------------------------------------------|--------------------------|-------------------|------------|------------|--------------------------------|----|
| Roadway                                                                      | Station to            | Station | L/R | Concrete Curb & Gutter<br>(City Type B66 C&G paid for as "Modified Type B66 Concrete C&G")<br>(City Type P6 C&G paid for as "Modified Type P6 Concrete Gutter")<br>(City Type B69 C&G paid for as "Modified Type B69 Concrete C&G")<br>(City Type BL66 C&G paid for as "Type BL66 Concrete C&G") |                |          |                                        |         |              |               | PCC<br>Fillet<br>Section | PCC<br>Approach<br>Pavement | Valley Gutter |            | Barrier Type Colored Median<br>PCC Pavement |                          | Concrete Sidewalk |            |            | Detectable<br>Warning<br>Panel |    |
|                                                                              |                       |         |     | SDDOT Type Curb & Gutter                                                                                                                                                                                                                                                                         |                |          | City of Sioux Falls Type Curb & Gutter |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              |                       |         |     | Type F<br>610                                                                                                                                                                                                                                                                                    | Type FL<br>610 | Type P10 | Type B<br>66                           | Type P6 | Type B<br>69 | Type BL<br>66 |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              |                       |         |     | Ft                                                                                                                                                                                                                                                                                               | Ft             | Ft       | Ft                                     | Ft      | Ft           | Ft            | 6"<br>SqYd               | 6"<br>SqYd                  | 6"<br>SqYd    | 8"<br>SqYd | 6"<br>SqYd                                  | 4" (Splashguard)<br>SqYd | 4"<br>SqFt        | 6"<br>SqFt | 8"<br>SqFt | Type 1<br>SqFt                 |    |
| 01VA<br>SD Highway 11                                                        | 1136+69               | 1146+68 | L   | 1,033                                                                                                                                                                                                                                                                                            |                |          | 12                                     |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1136+71               | 1146+01 | L/R |                                                                                                                                                                                                                                                                                                  | 933            |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1136+71               | 1146+01 | L/R |                                                                                                                                                                                                                                                                                                  | 931            |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1136+69               | 1146+33 | R   | 957                                                                                                                                                                                                                                                                                              |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1146+33               | 1146+75 | R   |                                                                                                                                                                                                                                                                                                  | 62             |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1147+12               | 1165+72 | L   | 1,918                                                                                                                                                                                                                                                                                            |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1165+72               | 1167+44 | L   |                                                                                                                                                                                                                                                                                                  |                | 172      |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1167+44               | 1167+70 | L   | 26                                                                                                                                                                                                                                                                                               |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1147+91               | 1163+19 | L/R |                                                                                                                                                                                                                                                                                                  | 1,536          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1163+19               | 1163+37 | R   |                                                                                                                                                                                                                                                                                                  |                | 18       |                                        |         |              | 19.3          |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1163+37               | 1166+17 | L   |                                                                                                                                                                                                                                                                                                  | 281            |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1147+91               | 1163+19 | L/R |                                                                                                                                                                                                                                                                                                  | 1,519          |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1163+19               | 1163+37 | R   |                                                                                                                                                                                                                                                                                                  |                | 18       |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1163+37               | 1166+17 | L/R |                                                                                                                                                                                                                                                                                                  | 282            |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1147+19               | 1163+12 | R   | 1,597                                                                                                                                                                                                                                                                                            |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1163+12               | 1163+36 | L/R |                                                                                                                                                                                                                                                                                                  |                | 24       |                                        |         |              | 49.9          |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1163+36               | 1167+70 | R   | 431                                                                                                                                                                                                                                                                                              |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1165+74               | 1167+70 | L/R |                                                                                                                                                                                                                                                                                                  | 205            |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1165+74               | 1167+70 | R   |                                                                                                                                                                                                                                                                                                  | 196            |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1146+75               | 1147+20 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             | 39            |            |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1147+96               | 1150+83 | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 146.6      |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1150+83               | 1163+14 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 277.2                                       |                          |                   |            |            |                                |    |
|                                                                              | 1150+83               | 1163+14 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 274.8                                       |                          |                   |            |            |                                |    |
|                                                                              | 1163+42               | 1163+75 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 9.6                                         |                          |                   |            |            |                                |    |
|                                                                              | 1163+42               | 1163+75 | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 9.4                                         |                          |                   |            |            |                                |    |
|                                                                              | 1163+75               | 1166+12 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 91.2       |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1165+79               | 1166+79 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               | 34.9       |                                             |                          |                   |            |            |                                |    |
|                                                                              | 1166+79               | 1167+70 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 21.6                                        |                          |                   |            |            |                                |    |
|                                                                              | 1166+79               | 1167+70 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            | 20.1                                        |                          |                   |            |            |                                |    |
|                                                                              | NW SD Hwy 11/69th St. |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 862               |            | 24         |                                |    |
|                                                                              | NE SD Hwy 11/69th St. |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 774               |            | 24         |                                |    |
|                                                                              | SW SD Hwy 11/69th St. |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 494               |            | 24         |                                |    |
|                                                                              | SE SD Hwy 11/69th St. |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 390               |            | 24         |                                |    |
| 1136+70                                                                      | 1145+93               | L       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             | 7,460                    |                   |            |            |                                |    |
| 1136+69                                                                      | 1146+08               | R       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             | 7,434                    |                   |            |            |                                |    |
| 1147+81                                                                      | 1166+38               | L       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             | 15,271                   |                   |            |            |                                |    |
| 1147+61                                                                      | 1163+07               | R       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             | 12,038                   |                   |            |            |                                |    |
| 1163+07                                                                      | 1163+42               | R       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          | 272               |            |            |                                |    |
| 1163+42                                                                      | 1167+70               | R       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             | 3,405                    |                   |            |            |                                |    |
| 1167+09                                                                      | 1167+70               | L       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |               |                          |                             |               |            |                                             |                          |                   |            |            |                                |    |
| Subtotal this page:                                                          |                       |         |     |                                                                                                                                                                                                                                                                                                  | 5,962          | 5,945    | 232                                    | 12      | 0            | 0             | 0                        | 0.0                         | 69.3          | 0          | 39                                          | 272.7                    | 612.7             | 0          | 48,128     | 272                            | 96 |

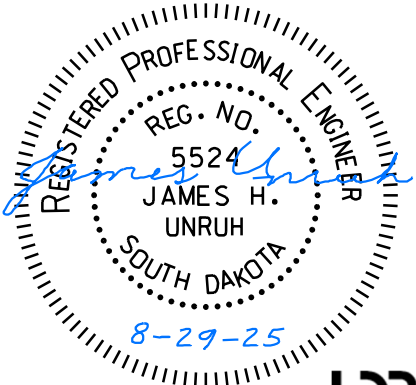




FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B20   | B174            |

| CURB AND GUTTER, FILLET, COLORED MEDIAN, AND SIDEWALK QUANTITIES (CONTINUED) |                     |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|------------------------------------------------------------------------------|---------------------|---------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------------------------------|---------|--------------|--------------------------|-----------------------------|---------------|------|---------------------------------------------|---------|-------------------|-------|--------|--------------------------------|--------|
| Roadway                                                                      | Station to          | Station | L/R | Concrete Curb & Gutter<br>(City Type B66 C&G paid for as "Modified Type B66 Concrete C&G")<br>(City Type P6 C&G paid for as "Modified Type P6 Concrete Gutter")<br>(City Type B69 C&G paid for as "Modified Type B69 Concrete C&G")<br>(City Type BL66 C&G paid for as "Type BL66 Concrete C&G") |                |          |                                        |         |              | PCC<br>Fillet<br>Section | PCC<br>Approach<br>Pavement | Valley Gutter |      | Barrier Type Colored Median<br>PCC Pavement |         | Concrete Sidewalk |       |        | Detectable<br>Warning<br>Panel |        |
|                                                                              |                     |         |     | SDDOT Type Curb & Gutter                                                                                                                                                                                                                                                                         |                |          | City of Sioux Falls Type Curb & Gutter |         |              |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              |                     |         |     | Type F<br>610                                                                                                                                                                                                                                                                                    | Type FL<br>610 | Type P10 | Type B<br>66                           | Type P6 | Type B<br>69 | Type BL<br>66            | 6"                          | 6"            | 6"   | 8"                                          | 6"      | 4" (Splashguard)  | 4"    | 6"     | 8"                             | Type 1 |
|                                                                              |                     |         |     | Ft                                                                                                                                                                                                                                                                                               | Ft             | Ft       | Ft                                     | Ft      | Ft           | Ft                       | SqYd                        | SqYd          | SqYd | SqYd                                        | SqYd    | SqYd              | SqFt  | SqFt   | SqFt                           | SqFt   |
| 01VA<br>69th Street/Hwy 11<br>Connection                                     | 901+01              | 909+57  | L   |                                                                                                                                                                                                                                                                                                  |                |          | 865                                    |         |              |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 909+57              | 910+43  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        | 89      |              |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 910+43              | 912+11  | L   |                                                                                                                                                                                                                                                                                                  |                |          | 172                                    |         |              |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 901+01              | 912+00  | R   |                                                                                                                                                                                                                                                                                                  |                |          | 1,085                                  |         |              |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 901+01              | 909+81  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   | 7,158 |        |                                |        |
|                                                                              | 909+81              | 910+19  | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   | 1,880 |        |                                |        |
|                                                                              | 901+01              | 912+32  | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   | 8,795 |        |                                |        |
|                                                                              | Subtotal this page: |         |     |                                                                                                                                                                                                                                                                                                  | 0              | 0        | 0                                      | 2,122   | 89           | 0                        | 0                           | 0.0           | 0.0  |                                             | 0       | 0.0               | 0.0   |        | 17,833                         | 0      |
| Total 01VA:                                                                  |                     |         |     | 29,695                                                                                                                                                                                                                                                                                           | 26,534         | 232      | 2,343                                  | 89      | 55           | 0                        | 0.0                         | 69.3          |      | 39                                          | 1,055.8 | 4,201.3           |       | 71,932 | 272                            | 352    |
| PCN 08DK<br>57th Street                                                      | 55+70               | 63+82   | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         | 812          |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 55+70               | 63+82   | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              | 812                      |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 62+21               | 63+82   | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         | 161          |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 62+21               | 63+82   | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              | 159                      |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 55+70               | 63+82   | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       | 4,301  |                                |        |
|                                                                              | 62+21               | 63+82   | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       | 1,242  |                                |        |
|                                                                              | 66+31               | 70+09   | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         | 380          |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 66+31               | 70+09   | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              | 380                      |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 66+31               | 69+49   | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              | 317                      |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 66+31               | 69+49   | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         | 319          |                          |                             |               |      |                                             |         |                   |       |        |                                |        |
|                                                                              | 66+31               | 69+55   | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       | 2,932  |                                |        |
|                                                                              | 66+31               | 69+49   | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       | 1,972  |                                |        |
| Total PCN 08DK:                                                              |                     |         |     | 0                                                                                                                                                                                                                                                                                                | 0              | 0        | 0                                      | 0       | 1,672        | 1,668                    | 0.0                         | 0.0           | 0    | 0                                           | 0.0     | 0.0               | 0     | 10,447 | 0                              | 0      |





| CURB AND GUTTER, FILLET, COLORED MEDIAN, AND SIDEWALK QUANTITIES |                |         |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                |               |
|------------------------------------------------------------------|----------------|---------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------------------------------|---------|--------------|--------------------------|-----------------------------|---------------|------|---------------------------------------------|---------|-------------------|-------|---------|--------------------------------|---------------|
| Roadway                                                          | Station to     | Station | L/R | Concrete Curb & Gutter<br>(City Type B66 C&G paid for as "Modified Type B66 Concrete C&G")<br>(City Type P6 C&G paid for as "Modified Type P6 Concrete Gutter")<br>(City Type B69 C&G paid for as "Modified Type B69 Concrete C&G")<br>(City Type BL66 C&G paid for as "Type BL66 Concrete C&G") |                |          |                                        |         |              | PCC<br>Fillet<br>Section | PCC<br>Approach<br>Pavement | Valley Gutter |      | Barrier Type Colored Median<br>PCC Pavement |         | Concrete Sidewalk |       |         | Detectable<br>Warning<br>Panel |               |
|                                                                  |                |         |     | SDDOT Type Curb & Gutter                                                                                                                                                                                                                                                                         |                |          | City of Sioux Falls Type Curb & Gutter |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  |                |         |     | Type F<br>610                                                                                                                                                                                                                                                                                    | Type FL<br>610 | Type P10 | Type B<br>66                           | Type P6 | Type B<br>69 |                          |                             |               |      |                                             |         |                   |       |         |                                | Type BL<br>66 |
|                                                                  |                |         |     | Ft                                                                                                                                                                                                                                                                                               | Ft             | Ft       | Ft                                     | Ft      | Ft           | Ft                       | SqYd                        | SqYd          | SqYd | SqYd                                        | SqYd    | SqYd              | SqYd  | SqYd    | SqYd                           | SqYd          |
| PCN 08DJ<br>69th Street                                          | 1117+99        | 1122+87 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       | 3973    |                                | 21            |
|                                                                  | 1117+99        | 1122+61 | L   |                                                                                                                                                                                                                                                                                                  |                |          | 469                                    |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1122+90        | 1122+90 | L   |                                                                                                                                                                                                                                                                                                  |                |          | 11                                     |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1118+00        | 1122+46 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              | 453                      |                             |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1118+00        | 1122+46 | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              | 452                      |                             |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1118+04        | 1120+06 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         | 44.9              |       |         |                                |               |
|                                                                  | 1118+04        | 1120+06 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         | 44.7              |       |         |                                |               |
|                                                                  | 1122+61        | 1122+90 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          | 37.9                        |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1122+71        | 1122+76 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   | 128   |         |                                |               |
|                                                                  | 1123+42        | 1123+47 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   | 89    |         |                                |               |
|                                                                  | 1120+06        | 1122+46 | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      | 120.0                                       |         |                   |       |         |                                |               |
|                                                                  | 1122+92        | 1123+26 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               | 30   |                                             |         |                   |       |         |                                |               |
|                                                                  | 1123+25        | 1123+56 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          | 37.3                        |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1123+32        | 1134+46 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       | 8939    |                                |               |
|                                                                  | 1123+33        | 1123+46 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                | 24            |
|                                                                  | 1123+56        | 1134+41 | L   |                                                                                                                                                                                                                                                                                                  |                |          | 1095                                   |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1123+76        | 1131+25 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         | 166.4             |       |         |                                |               |
|                                                                  | 1123+76        | 1131+25 | R   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         | 166.2             |       |         |                                |               |
|                                                                  | 1123+71        | 1134+39 | L   |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          | 1068                        |               |      |                                             |         |                   |       |         |                                |               |
|                                                                  | 1123+71        | 1134+39 | L/R |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          | 1067                        |               |      |                                             |         |                   |       |         |                                |               |
| 1131+25                                                          | 1134+33        | L/R     |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      | 152.3                                       |         |                   |       |         |                                |               |
| 1118+00                                                          | 1134+42        | L       |     |                                                                                                                                                                                                                                                                                                  |                | 1630     |                                        |         |              |                          |                             |               |      |                                             |         |                   |       |         |                                |               |
| 1118+00                                                          | 1134+42        | L       |     |                                                                                                                                                                                                                                                                                                  |                |          |                                        |         |              |                          |                             |               |      |                                             |         |                   | 13006 |         |                                |               |
|                                                                  | Total PCN 08DJ |         |     | 0                                                                                                                                                                                                                                                                                                | 0              | 0        | 3,205                                  | 0       | 0            | 3,040                    | 75.2                        | 0.0           | 30   | 0                                           | 272.3   | 422.2             | 217   | 25,918  | 0                              | 45            |
|                                                                  | Total 01VA:    |         |     | 29,695                                                                                                                                                                                                                                                                                           | 26,534         | 232      | 2,343                                  | 89      | 55           | 0                        | 0.0                         | 69.3          | 0    | 39                                          | 1,055.8 | 4,201.3           | 0     | 71,932  | 272                            | 352           |
|                                                                  | Total PCN 08DK |         |     | 0                                                                                                                                                                                                                                                                                                | 0              | 0        | 0                                      | 0       | 1,672        | 1,668                    | 0.0                         | 0.0           | 0    | 0                                           | 0.0     | 0.0               | 0     | 10,447  | 0                              | 0             |
|                                                                  | Total Project  |         |     | 29,695                                                                                                                                                                                                                                                                                           | 26,534         | 232      | 5,548                                  | 89      | 1,727        | 4,708                    | 75.2                        | 69.3          | 30   | 39                                          | 1,328.1 | 4,623.5           | 217   | 108,297 | 272                            | 397           |

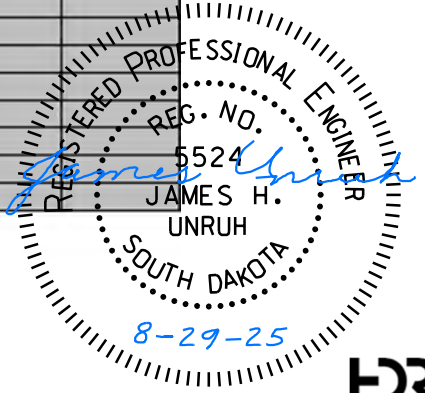


FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B22   | B174            |

| TABLE OF STORM SEWER DROP INLETS AND JUNCTION BOXES |        |            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |  |
|-----------------------------------------------------|--------|------------|--------------------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|------------------|-----------------------------------------------------------------|-------------------|------------------|-------------------|--|
| Station                                             | Offset | Inlet Type | Top of<br>Curb<br>Elevation<br>Elev. | Floor<br>Elevation<br>Elev. | Class M6<br>Concrete<br>(CuYd) | Reinforcing<br>Steel<br>(Lb) | Precast<br>Drop Inlet<br>Collar<br>(Each) | Frame and Grate / Lid                              |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |  |
|                                                     |        |            |                                      |                             |                                |                              |                                           | Type B<br>Frame and Grate<br>Left Flange<br>(Each) | Type B<br>Frame and Grate<br>No Flange<br>(Each) | Type B<br>Frame and Grate<br>Right Flange<br>(Each) | Type B<br>Frame and Grate<br>Right & Left Flange<br>(Each) | Type B<br>(Each) | 4' x 11' Precast<br>Concrete Type S<br>Drop Inlet Lid<br>(Each) | Type A7<br>(Each) | Type S<br>(Each) | Special<br>(Each) |  |
| 01VA (Veterans Parkway)                             |        |            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |  |
| 430+89.00                                           | 65.67' | L          | DOT 4x4 Type B                       | 1437.68                     | 1429.80                        | 3.00                         | 461.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 432+77.00                                           | 65.67' | L          | DOT 3x4 Type B                       | 1434.78                     | 1428.94                        | 1.90                         | 291.0                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 434+05.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1435.32                     | 1428.37                        | 2.20                         | 331.5                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 434+96.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1434.68                     | 1427.96                        | 2.20                         | 323.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 437+00.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1433.25                     | 1427.12                        | 2.10                         | 301.6                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 438+35.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1432.31                     | 1426.38                        | 1.90                         | 294.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 439+70.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1431.36                     | 1425.38                        | 1.90                         | 296.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 441+20.00                                           | 53.67' | L          | DOT 4x4 Type B                       | 1430.40                     | 1423.98                        | 2.40                         | 397.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 441+70.00                                           | 53.67' | L          | 3 Grate Type B (W=4')                | 1430.31                     | 1423.59                        | 4.40                         | 942.0                                     | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |  |
| 441+70.00                                           | 13.33' | L          | DOT 3x4 Type B                       | 1431.75                     | 1425.43                        | 2.20                         | 308.5                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 442+20.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1430.40                     | 1424.89                        | 1.10                         | 200.4                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 443+58.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1431.54                     | 1426.04                        | 1.10                         | 200.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 445+10.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1433.37                     | 1427.97                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 430+89.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1439.27                     | 1433.87                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 432+77.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1437.65                     | 1432.28                        | 1.10                         | 196.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 434+96.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1436.12                     | 1430.66                        | 1.10                         | 198.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 437+00.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1434.69                     | 1428.85                        | 1.90                         | 291.0                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 438+35.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1433.75                     | 1427.70                        | 2.00                         | 298.7                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 439+70.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1432.80                     | 1426.68                        | 2.00                         | 301.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 441+20.00                                           | 14.33' | R          | DOT 4x4 Type B                       | 1431.84                     | 1425.55                        | 2.40                         | 391.6                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 441+70.00                                           | 14.33' | R          | 3 Grate Type B (W=4')                | 1431.75                     | 1425.23                        | 4.30                         | 935.0                                     | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |  |
| 441+70.00                                           | 53.67' | R          | DOT 3x4 Type B                       | 1433.19                     | 1424.83                        | 2.40                         | 383.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 442+20.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1431.84                     | 1426.33                        | 1.10                         | 200.4                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 443+58.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1432.98                     | 1427.52                        | 1.10                         | 198.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 445+10.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1434.81                     | 1429.41                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 453+10.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1433.69                     | 1428.22                        | 1.10                         | 199.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 454+85.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1431.83                     | 1426.43                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 456+59.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1430.21                     | 1424.65                        | 1.10                         | 201.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 458+32.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1429.00                     | 1423.25                        | 1.90                         | 287.7                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 460+06.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1427.78                     | 1421.81                        | 1.90                         | 295.7                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 461+80.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1426.64                     | 1420.71                        | 1.90                         | 294.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 462+30.00                                           | 53.67' | L          | 3 Grate Type B (W=3')                | 1426.55                     | 1420.40                        | 3.40                         | 770.0                                     | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |  |
| 462+30.00                                           | 14.33' | L          | DOT 3x4 Type B                       | 1427.99                     | 1420.20                        | 2.30                         | 362.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 462+80.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1426.63                     | 1420.79                        | 1.90                         | 291.0                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 464+09.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1427.43                     | 1421.93                        | 1.10                         | 200.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 465+23.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1428.23                     | 1422.74                        | 1.20                         | 199.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 466+37.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1429.03                     | 1423.60                        | 1.10                         | 198.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 453+10.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1435.13                     | 1429.73                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 454+85.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1433.27                     | 1427.90                        | 1.10                         | 196.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 456+59.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1431.65                     | 1426.08                        | 1.10                         | 202.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 458+32.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1430.44                     | 1424.66                        | 1.90                         | 288.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 460+06.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1429.22                     | 1423.20                        | 2.00                         | 297.6                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 461+80.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1428.08                     | 1422.08                        | 2.00                         | 296.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 462+30.00                                           | 14.33' | R          | 3 Grate Type B (W=3')                | 1427.99                     | 1419.97                        | 4.10                         | 1638.0                                    | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |  |
| 462+30.00                                           | 53.67' | R          | DOT 3x4 Type B                       | 1429.43                     | 1419.57                        | 2.90                         | 437.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 462+80.00                                           | 14.33' | R          | DOT 3x4 Type B                       | 1428.07                     | 1422.25                        | 1.90                         | 290.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 464+09.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1428.87                     | 1423.41                        | 1.10                         | 198.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 465+23.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1429.67                     | 1424.18                        | 1.20                         | 199.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 466+37.20                                           | 2.29'  | R          | DOT 2x3 Type B                       | 1430.47                     | 1425.07                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |
| 466+85.34                                           | 53.67' | L          | DOT 2x3 Type B                       | 1429.37                     | 1419.45                        | 1.90                         | 328.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |  |

Top of wall elevation and wall height will be adjusted by the Contractor based on the paving operation.



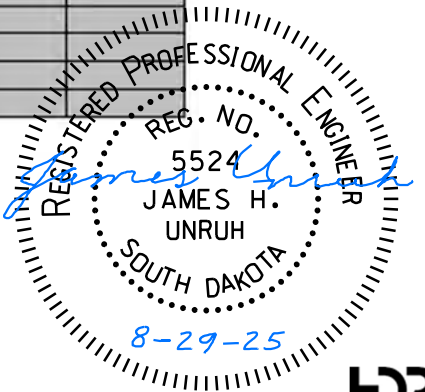


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|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B23   | B174            |

| TABLE OF STORM SEWER DROP INLETS AND JUNCTION BOXES |        |            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
|-----------------------------------------------------|--------|------------|--------------------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|------------------|-----------------------------------------------------------------|-------------------|------------------|-------------------|
| Station                                             | Offset | Inlet Type | Top of<br>Curb<br>Elevation<br>Elev. | Floor<br>Elevation<br>Elev. | Class M6<br>Concrete<br>(CuYd) | Reinforcing<br>Steel<br>(Lb) | Precast<br>Drop Inlet<br>Collar<br>(Each) | Frame and Grate / Lid                              |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
|                                                     |        |            |                                      |                             |                                |                              |                                           | Type B<br>Frame and Grate<br>Left Flange<br>(Each) | Type B<br>Frame and Grate<br>No Flange<br>(Each) | Type B<br>Frame and Grate<br>Right Flange<br>(Each) | Type B<br>Frame and Grate<br>Right & Left Flange<br>(Each) | Type B<br>(Each) | 4' x 11' Precast<br>Concrete Type S<br>Drop Inlet Lid<br>(Each) | Type A7<br>(Each) | Type S<br>(Each) | Special<br>(Each) |
| 01VA (Veterans Parkway)                             |        |            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
| 468+15.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1430.28                     | 1424.87                        | 1.10                         | 197.5                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 466+85.52                                           | 7.04'  | L          | DOT 3x4 Type B                       | 1430.81                     | 1424.51                        | 2.00                         | 307.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 468+15.00                                           | 9.67'  | L          | DOT 2x3 Type B                       | 1431.72                     | 1426.31                        | 1.10                         | 197.5                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 476+13.00                                           | 65.67' | L          | DOT 2x3 Type B                       | 1429.54                     | 1424.14                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 477+73.50                                           | 62.33' | L          | DOT 2x3 Type B                       | 1428.48                     | 1423.01                        | 1.10                         | 199.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 479+34.50                                           | 53.67' | L          | DOT 2x3 Type B                       | 1427.84                     | 1422.12                        | 1.10                         | 206.5                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 476+13.00                                           | 53.67' | R          | DOT 2x3 Type B                       | 1430.26                     | 1424.86                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 477+73.50                                           | 53.67' | R          | DOT 2x3 Type B                       | 1429.14                     | 1423.65                        | 1.10                         | 199.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 479+34.50                                           | 53.67' | R          | DOT 2x3 Type B                       | 1428.01                     | 1422.52                        | 1.10                         | 199.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 480+72.50                                           | 53.67' | L          | DOT 3x4 Type B                       | 1427.04                     | 1420.78                        | 2.00                         | 306.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 481+69.19                                           | 53.67' | L          | DOT 3x4 Type B                       | 1426.47                     | 1421.24                        | 1.70                         | 268.7                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 482+14.00                                           | 53.67' | L          | 4 Grate Type B (W=3')                | 1426.39                     | 1421.42                        | 4.00                         | 912.0                                     | 1                                                  | 1                                                | 2                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |
| 482+69.19                                           | 53.67' | L          | DOT 2x3 Type B                       | 1426.49                     | 1421.66                        | 1.00                         | 180.7                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 480+58.00                                           | 53.67' | R          | DOT 3x4 Type B                       | 1427.14                     | 1420.72                        | 2.10                         | 312.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 481+69.19                                           | 53.67' | R          | DOT 3x4 Type B                       | 1426.47                     | 1421.26                        | 1.70                         | 268.0                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 482+14.00                                           | 53.67' | R          | 4 Grate Type B (W=3')                | 1426.39                     | 1421.44                        | 4.00                         | 912.0                                     | 1                                                  | 1                                                | 2                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |
| 482+69.19                                           | 53.67' | R          | DOT 2x3 Type B                       | 1426.49                     | 1421.68                        | 1.00                         | 180.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 486+55.27                                           | 53.67' | L          | DOT 2x3 Type B                       | 1426.72                     | 1422.37                        | 0.90                         | 166.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 487+04.00                                           | 53.67' | L          | 2 Grate type B (W=2')                | 1426.64                     | 1422.15                        | 1.50                         | 316.0                                     | 1                                                  | 1                                                |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 487+55.27                                           | 53.67' | L          | DOT 2x3 Type B                       | 1426.72                     | 1422.39                        | 0.90                         | 166.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 486+55.27                                           | 53.67' | R          | DOT 2x3 Type B                       | 1426.72                     | 1421.85                        | 1.00                         | 181.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 487+04.00                                           | 53.67' | R          | 2 Grate type B (W=2')                | 1426.64                     | 1421.53                        | 1.60                         | 345.0                                     | 1                                                  | 1                                                |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 487+55.27                                           | 53.67' | R          | DOT 2x3 Type B                       | 1426.72                     | 1421.86                        | 1.00                         | 181.5                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 494+60.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1426.59                     | 1421.19                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 495+76.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1425.78                     | 1420.45                        | 1.00                         | 195.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 497+24.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1424.57                     | 1418.94                        | 1.10                         | 203.8                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 497+56.00                                           | 53.67' | L          | DOT 3x4 Type B                       | 1424.21                     | 1418.40                        | 1.90                         | 289.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 498+05.66                                           | 53.67' | L          | 3 Grate Type B (W=3')                | 1423.80                     | 1418.18                        | 3.20                         | 732.0                                     | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |
| 498+05.66                                           | 14.33' | L          | DOT 3x4 Type B                       | 1425.24                     | 1418.54                        | 2.20                         | 322.4                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 498+56.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1423.89                     | 1418.49                        | 1.10                         | 197.2                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 499+70.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1424.60                     | 1419.14                        | 1.10                         | 198.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 494+60.00                                           | 53.67' | R          | DOT 2x3 Type B                       | 1426.59                     | 1421.65                        | 1.00                         | 183.9                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 495+76.00                                           | 53.67' | R          | DOT 2x3 Type B                       | 1426.41                     | 1420.98                        | 1.10                         | 198.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 497+24.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1425.48                     | 1420.14                        | 1.10                         | 195.4                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 497+56.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1425.33                     | 1419.89                        | 1.10                         | 198.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 498+05.66                                           | 14.33' | R          | 3 Grate Type B (W=3')                | 1425.24                     | 1418.83                        | 3.70                         | 786.0                                     | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |
| 498+05.66                                           | 53.67' | R          | DOT 3x4 Type B                       | 1426.68                     | 1420.14                        | 2.20                         | 316.6                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 498+56.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1425.33                     | 1419.90                        | 1.10                         | 198.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 499+70.00                                           | 14.33' | R          | DOT 2x3 Type B                       | 1426.04                     | 1420.67                        | 1.10                         | 196.3                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 507+30.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1426.38                     | 1421.00                        | 1.10                         | 196.6                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 508+65.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1425.44                     | 1419.93                        | 1.10                         | 200.4                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 510+00.00                                           | 53.67' | L          | DOT 2x3 Type B                       | 1424.49                     | 1418.99                        | 1.10                         | 200.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 511+49.09                                           | 53.67' | L          | DOT 2x3 Type B                       | 1423.53                     | 1418.03                        | 1.10                         | 200.1                                     | 1                                                  |                                                  |                                                     |                                                            |                  | 1                                                               |                   |                  |                   |
| 511+79.00                                           | 53.67' | L          | 2 Grate type B (W=2')                | 1423.46                     | 1417.86                        | 1.50                         | 366.0                                     | 1                                                  | 1                                                |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 512+00.00                                           | 53.67' | L          | 3 Grate Type B (W=2')                | 1423.44                     | 1417.86                        | 2.30                         | 503.0                                     | 1                                                  | 1                                                | 1                                                   | 1                                                          |                  |                                                                 |                   |                  |                   |
| 512+00.00                                           | 14.33' | L          | 2 Grate type B (W=2')                | 1424.88                     | 1417.78                        | 2.10                         | 434.0                                     | 1                                                  | 1                                                |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |

Top of wall elevation and wall height will be adjusted by the Contractor based on the paving operation.



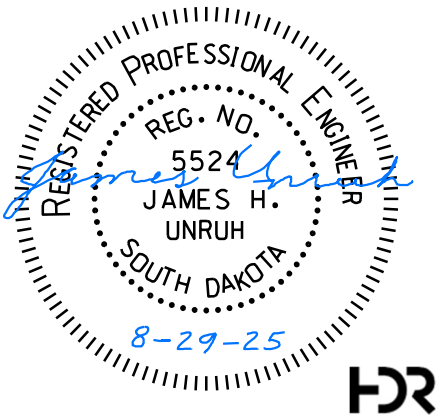


FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B24   | B174            |

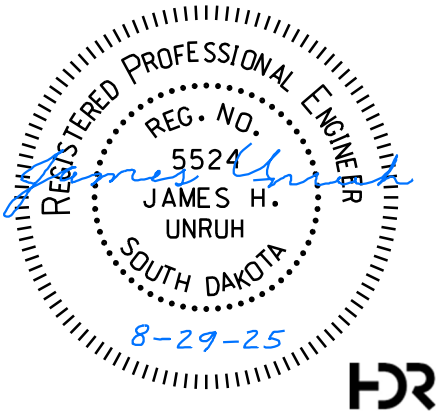
| TABLE OF STORM SEWER DROP INLETS AND JUNCTION BOXES |        |                         |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
|-----------------------------------------------------|--------|-------------------------|--------------------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|------------------|-----------------------------------------------------------------|-------------------|------------------|-------------------|
| Station                                             | Offset | Inlet Type              | Top of<br>Curb<br>Elevation<br>Elev. | Floor<br>Elevation<br>Elev. | Class M6<br>Concrete<br>(CuYd) | Reinforcing<br>Steel<br>(Lb) | Precast<br>Drop Inlet<br>Collar<br>(Each) | Frame and Grate / Lid                              |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
|                                                     |        |                         |                                      |                             |                                |                              |                                           | Type B<br>Frame and Grate<br>Left Flange<br>(Each) | Type B<br>Frame and Grate<br>No Flange<br>(Each) | Type B<br>Frame and Grate<br>Right Flange<br>(Each) | Type B<br>Frame and Grate<br>Right & Left Flange<br>(Each) | Type B<br>(Each) | 4' x 11' Precast<br>Concrete Type S<br>Drop Inlet Lid<br>(Each) | Type A7<br>(Each) | Type S<br>(Each) | Special<br>(Each) |
| 01VA (Veterans Parkway)                             |        |                         |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
| 512+20.70                                           | 53.67' | L 2 Grate type B (W=2') | 1423.46                              | 1417.86                     | 1.50                           | 366.0                        | 1                                         | 1                                                  |                                                  |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 512+50.73                                           | 53.67' | L DOT 2x3 Type B        | 1423.54                              | 1418.13                     | 1.10                           | 197.5                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 507+30.00                                           | 14.33' | R DOT 2x3 Type B        | 1427.82                              | 1422.42                     | 1.10                           | 197.2                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 508+65.00                                           | 14.33' | R DOT 2x3 Type B        | 1426.88                              | 1421.49                     | 1.10                           | 196.9                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 510+00.00                                           | 14.33' | R DOT 2x3 Type B        | 1425.93                              | 1420.43                     | 1.10                           | 200.1                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 511+49.09                                           | 14.33' | R DOT 2x3 Type B        | 1424.97                              | 1419.55                     | 1.10                           | 197.8                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 511+79.00                                           | 14.33' | R 2 Grate type B (W=2') | 1424.90                              | 1417.72                     | 2.00                           | 436.0                        | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 512+00.00                                           | 14.33' | R 3 Grate Type B (W=2') | 1424.88                              | 1417.72                     | 3.00                           | 588.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 512+00.00                                           | 53.67' | R 2 Grate type B (W=2') | 1426.32                              | 1417.64                     | 2.60                           | 1035.0                       | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 512+20.70                                           | 14.33' | R 2 Grate type B (W=2') | 1424.90                              | 1417.72                     | 2.00                           | 436.0                        | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 512+50.93                                           | 9.71'  | R DOT 2x3 Type B        | 1424.98                              | 1419.58                     | 1.10                           | 197.2                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 513+32.00                                           | 53.67' | L DOT 2x3 Type B        | 1424.05                              | 1419.13                     | 1.00                           | 183.3                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 513+32.00                                           | 6.73'  | L DOT 2x3 Type B        | 1425.49                              | 1418.80                     | 1.40                           | 234.6                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 515+72.00                                           | 53.67' | L DOT 2x3 Type B        | 1426.15                              | 1421.75                     | 0.90                           | 168.2                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 515+72.00                                           | 9.67'  | L DOT 2x3 Type B        | 1427.41                              | 1421.44                     | 1.20                           | 213.7                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 517+94.00                                           | 53.67' | L DOT 2x3 Type B        | 1428.82                              | 1423.55                     | 1.10                           | 193.4                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 517+94.00                                           | 65.67' | R DOT 2x3 Type B        | 1428.46                              | 1422.86                     | 1.10                           | 203.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 520+52.00                                           | 65.67' | L DOT 2x3 Type B        | 1430.48                              | 1425.10                     | 1.10                           | 196.6                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 520+52.00                                           | 53.67' | R DOT 2x3 Type B        | 1430.86                              | 1424.41                     | 1.30                           | 227.6                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 523+45.00                                           | 65.67' | L DOT 2x3 Type B        | 1432.13                              | 1426.75                     | 1.00                           | 196.6                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 523+45.00                                           | 53.67' | R DOT 2x3 Type B        | 1432.85                              | 1427.44                     | 1.10                           | 197.5                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 525+17.00                                           | 64.00' | L DOT 2x3 Type B        | 1433.60                              | 1428.10                     | 1.00                           | 200.1                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 525+17.00                                           | 53.67' | R DOT 2x3 Type B        | 1434.22                              | 1428.80                     | 1.10                           | 197.8                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 527+57.00                                           | 53.67' | L DOT 2x3 Type B        | 1436.13                              | 1430.06                     | 1.20                           | 216.6                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 527+57.00                                           | 53.67' | R DOT 2x3 Type B        | 1436.13                              | 1430.70                     | 1.10                           | 198.1                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 529+97.00                                           | 53.67' | L DOT 2x3 Type B        | 1438.04                              | 1432.96                     | 1.00                           | 187.9                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 529+97.00                                           | 53.67' | R DOT 2x3 Type B        | 1438.04                              | 1433.60                     | 0.90                           | 169.4                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 532+37.00                                           | 53.67' | L DOT 2x3 Type B        | 1439.95                              | 1433.90                     | 1.20                           | 216.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 532+37.00                                           | 53.67' | R DOT 2x3 Type B        | 1439.95                              | 1434.55                     | 1.10                           | 197.2                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 534+77.00                                           | 53.67' | L DOT 2x3 Type B        | 1441.87                              | 1435.47                     | 1.20                           | 226.2                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 534+77.00                                           | 53.67' | R DOT 2x3 Type B        | 1441.69                              | 1436.10                     | 1.20                           | 202.7                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 536+90.00                                           | 53.67' | L DOT 2x3 Type B        | 1443.68                              | 1437.37                     | 1.30                           | 223.5                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 536+90.00                                           | 53.67' | R DOT 2x3 Type B        | 1443.29                              | 1438.00                     | 1.10                           | 194.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 539+17.58                                           | 53.67' | R DOT 2x3 Type B        | 1445.69                              | 1441.15                     | 1.00                           | 172.3                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 541+15.66                                           | 53.67' | R DOT 2x3 Type B        | 1447.55                              | 1441.93                     | 1.20                           | 203.6                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |

Top of wall elevation and wall height will be adjusted by the Contractor based on the paving operation.





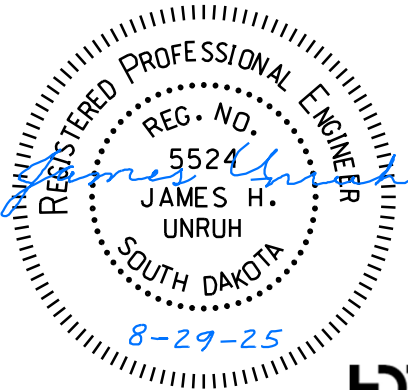
| TABLE OF STORM SEWER DROP INLETS AND JUNCTION BOXES |        |   |                       |                             |                    |                      |                      |                                 |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |   |   |                   |                  |                   |
|-----------------------------------------------------|--------|---|-----------------------|-----------------------------|--------------------|----------------------|----------------------|---------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|------------------|-----------------------------------------------------------------|---|---|-------------------|------------------|-------------------|
| Station                                             | Offset |   | Inlet Type            | Top of<br>Curb<br>Elevation | Floor<br>Elevation | Class M6<br>Concrete | Reinforcing<br>Steel | Precast<br>Drop Inlet<br>Collar | Frame and Grate / Lid                              |                                                  |                                                     |                                                            |                  |                                                                 |   |   | Type A7<br>(Each) | Type S<br>(Each) | Special<br>(Each) |
|                                                     |        |   |                       | Elev.                       | Elev.              | (CuYd)               | (Lb)                 | (Each)                          | Type B<br>Frame and Grate<br>Left Flange<br>(Each) | Type B<br>Frame and Grate<br>No Flange<br>(Each) | Type B<br>Frame and Grate<br>Right Flange<br>(Each) | Type B<br>Frame and Grate<br>Right & Left Flange<br>(Each) | Type B<br>(Each) | 4' x 11' Precast<br>Concrete Type S<br>Drop Inlet Lid<br>(Each) |   |   |                   |                  |                   |
| 01VA SD Hwy 11                                      |        |   |                       |                             |                    |                      |                      |                                 |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1139+94.00                                          | 51.44' | L | 3 Grate Type B (W=2') | 1430.51                     | 1425.10            | 2.60                 | 496.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1139+94.00                                          | 36.17' | R | 3 Grate Type B (W=2') | 1430.81                     | 1424.57            | 2.90                 | 540.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1143+44.00                                          | 36.17' | L | 3 Grate Type B (W=2') | 1425.67                     | 1421.25            | 2.20                 | 438.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1143+44.00                                          | 39.91' | R | 3 Grate Type B (W=2') | 1425.60                     | 1420.78            | 2.30                 | 460.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1145+44.00                                          | 36.17' | L | 3 Grate Type B (W=2') | 1422.74                     | 1418.30            | 2.20                 | 439.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1145+44.00                                          | 48.17' | R | 3 Grate Type B (W=2') | 1422.50                     | 1417.79            | 2.20                 | 456.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1147+94.00                                          | 48.17' | L | 3 Grate Type B (W=2') | 1420.60                     | 1414.07            | 3.00                 | 560.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1147+94.00                                          | 42.17' | R | 3 Grate Type B (W=2') | 1420.72                     | 1414.61            | 2.90                 | 538.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1148+55.00                                          | 41.39' | R | 3 Grate Type B (W=2') | 1420.39                     | 1414.96            | 2.60                 | 497.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1149+00.00                                          | 38.18' | R | 3 Grate Type B (W=2') | 1420.21                     | 1415.24            | 2.40                 | 465.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1149+57.86                                          | 46.20' | L | 3 Grate Type B (W=2') | 1419.73                     | 1414.09            | 2.70                 | 504.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1150+00.66                                          | 41.28' | L | 3 Grate Type B (W=2') | 1419.59                     | 1413.82            | 2.70                 | 516.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1150+43.85                                          | 37.39' | L | 3 Grate Type B (W=2') | 1419.42                     | 1413.54            | 2.70                 | 519.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1150+43.85                                          | 36.17' | R | 3 Grate Type B (W=2') | 1419.45                     | 1414.00            | 2.60                 | 497.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1153+70.22                                          | 36.17' | L | 3 Grate Type B (W=2') | 1417.64                     | 1409.97            | 3.30                 | 1241.0               | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1153+70.22                                          | 36.17' | R | 3 Grate Type B (W=2') | 1417.64                     | 1410.15            | 3.20                 | 1228.0               | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1157+44.00                                          | 36.17' | L | 3 Grate Type B (W=2') | 1415.56                     | 1409.80            | 2.70                 | 516.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1157+44.00                                          | 36.17' | R | 3 Grate Type B (W=2') | 1415.56                     | 1410.15            | 2.60                 | 496.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1160+94.00                                          | 36.17' | L | 3 Grate Type B (W=2') | 1413.61                     | 1408.20            | 2.60                 | 496.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1160+94.00                                          | 36.17' | R | 3 Grate Type B (W=2') | 1413.61                     | 1407.75            | 2.70                 | 518.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1164+36.50                                          | 39.67' | L | 3 Grate Type B (W=2') | 1411.64                     | 1406.30            | 2.60                 | 487.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1164+36.50                                          | 39.67' | R | 3 Grate Type B (W=2') | 1411.64                     | 1405.81            | 2.70                 | 517.0                | 1                               | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 1167+55.00                                          | 38.61' | L | 4 Grate Type B (W=2') | 1410.08                     | 1404.75            | 3.30                 | 624.0                | 1                               | 1                                                  | 2                                                | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 01VA (69th Street / Co Rd 102 Connection)           |        |   |                       |                             |                    |                      |                      |                                 |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 901+50.00                                           | 20.27' | R | DOT 2x3 Type B        | 1420.23                     | 1414.85            | 1.00                 | 196.6                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 901+50.00                                           | 19.50' | L | DOT 2x3 Type B        | 1420.25                     | 1415.04            | 1.10                 | 191.7                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 902+01.67                                           | 19.50' | L | 2 Grate type B (W=2') | 1411.18                     | 1405.60            | 1.90                 | 366.0                | 1                               | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 902+01.67                                           | 19.50' | R | 2 Grate type B (W=2') | 1411.18                     | 1405.60            | 1.80                 | 366.0                | 1                               | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 902+50.00                                           | 19.50' | L | DOT 2x3 Type B        | 1420.25                     | 1415.50            | 1.00                 | 178.4                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 902+50.00                                           | 19.50' | R | DOT 2x3 Type B        | 1420.25                     | 1415.31            | 1.00                 | 183.9                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 908+21.46                                           | 19.50' | L | DOT 2x3 Type B        | 1420.86                     | 1415.97            | 1.00                 | 182.4                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 908+21.46                                           | 19.50' | R | DOT 2x3 Type B        | 1420.86                     | 1415.78            | 1.00                 | 187.9                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 908+73.10                                           | 19.50' | L | 2 Grate type B (W=2') | 1420.70                     | 1415.67            | 1.40                 | 344.0                | 1                               | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 908+73.10                                           | 19.50' | R | 2 Grate type B (W=2') | 1420.70                     | 1415.53            | 1.40                 | 346.0                | 1                               | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |   |   |                   |                  |                   |
| 909+00.00                                           | 24.00' | R | DOT 5x5 JB            | 1420.82                     | 1415.50            | 4.20                 | 788.0                |                                 |                                                    |                                                  |                                                     |                                                            |                  |                                                                 | 1 |   |                   |                  |                   |
| 909+21.48                                           | 19.50' | L | DOT 2x3 Type B        | 1420.86                     | 1415.83            | 1.00                 | 186.5                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 909+21.48                                           | 19.50' | R | DOT 2x3 Type B        | 1420.86                     | 1415.64            | 1.00                 | 192.0                | 1                               |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |   |   |                   |                  |                   |
| 01VA Total                                          |        |   |                       |                             |                    | 293.5                | 56,560               | 168                             | 47                                                 | 38                                               | 47                                                  | 0                                                          | 121              | 0                                                               | 1 | 0 |                   |                  |                   |





| TABLE OF STORM SEWER DROP INLETS AND JUNCTION BOXES |          |                            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
|-----------------------------------------------------|----------|----------------------------|--------------------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|------------------|-----------------------------------------------------------------|-------------------|------------------|-------------------|
| Station                                             | Offset   | Inlet Type                 | Top of<br>Curb<br>Elevation<br>Elev. | Floor<br>Elevation<br>Elev. | Class M6<br>Concrete<br>(CuYd) | Reinforcing<br>Steel<br>(Lb) | Precast<br>Drop Inlet<br>Collar<br>(Each) | Frame and Grate / Lid                              |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
|                                                     |          |                            |                                      |                             |                                |                              |                                           | Type B<br>Frame and Grate<br>Left Flange<br>(Each) | Type B<br>Frame and Grate<br>No Flange<br>(Each) | Type B<br>Frame and Grate<br>Right Flange<br>(Each) | Type B<br>Frame and Grate<br>Right & Left Flange<br>(Each) | Type B<br>(Each) | 4' x 11' Precast<br>Concrete Type S<br>Drop Inlet Lid<br>(Each) | Type A7<br>(Each) | Type S<br>(Each) | Special<br>(Each) |
| 08DK (57th Street)                                  |          |                            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
| 57+38.00                                            | 35.47' R | 2 Grate type B (W=4')      | 1433.91                              | 1429.52                     | 2.40                           | 546.0                        | 1                                         | 1                                                  |                                                  |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 61+85.31                                            | 52.83' R | 2 Grate type B (W=2')      | 1430.22                              | 1426.52                     | 1.30                           | 282.0                        | 1                                         | 1                                                  |                                                  |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 61+87.00                                            | 33.85' R | DOT 5x5 JB                 | 1430.13                              | 1426.35                     | 3.60                           | 671.0                        |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 | 1                 |                  |                   |
| 63+10.00                                            | 40.86' L | DOT 3x4 Type B             | 1429.49                              | 1425.32                     | 1.50                           | 230.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 63+55.00                                            | 40.86' L | 2 Grate type B (W=3')      | 1429.47                              | 1425.12                     | 2.00                           | 454.0                        | 1                                         | 1                                                  |                                                  |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 63+96.85                                            | 43.48' L | DOT 3x4 Type B             | 1429.73                              | 1424.93                     | 1.70                           | 253.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 63+10.00                                            | 56.13' R | DOT 3x4 Type B             | 1429.12                              | 1425.04                     | 1.50                           | 226.7                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 63+55.00                                            | 56.13' R | 2 Grate type B (W=3')      | 1428.79                              | 1424.84                     | 1.80                           | 435.0                        | 1                                         | 1                                                  |                                                  |                                                     | 1                                                          |                  |                                                                 |                   |                  |                   |
| 64+00.00                                            | 56.13' R | DOT 3x4 Type B             | 1428.92                              | 1424.64                     | 1.50                           | 234.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 64+00.00                                            | 34.50' R | DOT 5x5 JB                 | 1428.79                              | 1424.52                     | 3.80                           | 708.2                        |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  | 1                 |
| 65+75.00                                            | 35.00' L | Custom JB                  |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
| 65+75.00                                            | 35.00' R | Custom JB                  |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
| 08DK Total                                          |          |                            |                                      |                             | 21.1                           | 4,040                        | 8                                         | 4                                                  | 0                                                | 4                                                   | 0                                                          | 4                | 0                                                               | 1                 | 0                | 1                 |
| 08DJ (69th Street)                                  |          |                            |                                      |                             |                                |                              |                                           |                                                    |                                                  |                                                     |                                                            |                  |                                                                 |                   |                  |                   |
| 1118+08.31                                          | 33.49' L | 3 Grate Type B (W=2')      | 1430.20                              | 1424.60                     | 2.70                           | 503.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1118+08.44                                          | 33.50' R | 3 Grate Type B (W=2')      | 1430.20                              | 1424.17                     | 2.70                           | 525.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1120+15.00                                          | 33.50' L | 3 Grate Type B (W=2')      | 1432.38                              | 1426.80                     | 2.70                           | 503.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1120+15.00                                          | 33.50' R | 3 Grate Type B (W=2')      | 1432.25                              | 1426.37                     | 2.70                           | 519.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1122+28.99                                          | 33.50' R | 3 Grate Type B (W=2')      | 1434.43                              | 1428.62                     | 2.70                           | 517.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1122+29.00                                          | 33.50' L | 3 Grate Type B (W=2')      | 1434.65                              | 1429.05                     | 2.60                           | 503.0                        | 1                                         | 1                                                  | 1                                                | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1123+61.63                                          | 44.50' L | Single Grate Type B (W=2') | 1435.82                              | 1429.83                     | 1.20                           | 238.0                        | 1                                         |                                                    |                                                  |                                                     |                                                            | 1                |                                                                 |                   |                  |                   |
| 1131+25.54                                          | 33.50' L | 2 Grate type B (W=2')      | 1430.18                              | 1424.65                     | 1.90                           | 363.0                        | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1131+25.55                                          | 33.50' R | 2 Grate type B (W=2')      | 1430.06                              | 1424.22                     | 1.90                           | 378.0                        | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1131+77.22                                          | 36.50' R | DOT 4x11 Type S            | 1430.08                              | 1424.65                     | 3.90                           | 673.7                        |                                           |                                                    |                                                  |                                                     |                                                            |                  | 1                                                               |                   | 1                |                   |
| 1131+77.16                                          | 36.50' L | DOT 4x11 Type S            | 1429.86                              | 1420.72                     | 6.20                           | 921.5                        |                                           |                                                    |                                                  |                                                     |                                                            |                  | 1                                                               |                   | 1                |                   |
| 1132+28.89                                          | 33.50' L | 2 Grate type B (W=2')      | 1430.19                              | 1424.65                     | 1.90                           | 363.0                        | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 1132+28.90                                          | 33.50' R | 2 Grate type B (W=2')      | 1429.96                              | 1424.22                     | 1.90                           | 374.0                        | 1                                         | 1                                                  |                                                  | 1                                                   |                                                            |                  |                                                                 |                   |                  |                   |
| 08DJ Total                                          |          |                            |                                      |                             | 35.0                           | 6,381                        | 11                                        | 10                                                 | 6                                                | 10                                                  | 0                                                          | 1                | 2                                                               | 0                 | 2                | 0                 |
| Project Total                                       |          |                            |                                      |                             | 349.6                          | 66,981                       | 187                                       | 61                                                 | 44                                               | 61                                                  | 0                                                          | 126              | 2                                                               | 2                 | 2                | 1                 |

Top of wall elevation and wall height will be adjusted by the Contractor based on the paving operation.  
Type A7 Frame and Lid will be Neenah R-1773 or equal; Special Frame and Lid will be Neenah R-1772





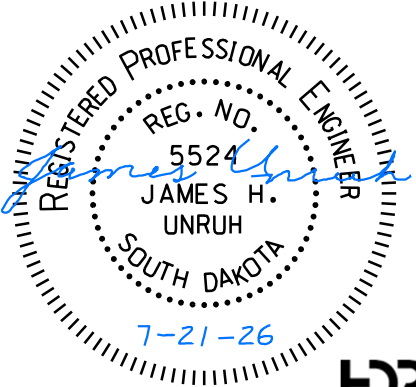
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|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B27   | B174            |

Plotting Date: 7/23/2026

REV. DATE: 7/21/2026  
INITIAL: JHU

| Station    Offset (L/R)                      | Circular |      |       |       |      |      |               |               |               |               |               |               | Arch |      |      |      |               |
|----------------------------------------------|----------|------|-------|-------|------|------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|---------------|
|                                              | 12"      | 15"  | 18"   | 24"   | 30"  | 36"  | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Short<br>Bend | 18"  | 36"  | 54"  | 60"  | Flared<br>End |
|                                              | CL 5     | CL 4 | CL 2  | CL 2  | CL 2 | CL 2 | 12"           | 15"           | 18"           | 24"           | 36"           | 24"           | CL 2 | CL 2 | CL 2 | CL 2 | 36"           |
|                                              | (Ft)     | (Ft) | (Ft)  | (Ft)  | (Ft) | (Ft) | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (Ft) | (Ft) | (Ft) | (Ft) | (EA)          |
| 01VA Veterans Parkway                        |          |      |       |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 430+89.00 - 65.67' L TO 432+77.00 - 65.67' L |          |      |       | 182   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 432+77.00 - 65.67' L TO 434+05.00 - 53.67' L |          |      |       | 124   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 434+05.00 - 53.67' L TO 434+96.00 - 53.67' L |          |      |       | 88    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 434+96.00 - 53.67' L TO 96' L                |          |      |       | 36    |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 437+00.00 TO 438+35.00 - 53.67' L            |          |      |       | 130   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 438+35.00 - 53.67' L TO 439+70.00 - 53.67' L |          |      |       | 130   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 439+70.00 - 53.67' L TO 441+20.00 - 53.67' L |          |      |       | 144   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 441+20.00 - 53.67' L TO 441+70.00 - 53.67' L |          |      |       |       | 44   |      |               |               |               |               |               |               |      |      |      |      |               |
| 441+70.00 - 53.67' L TO 97' L                |          |      |       |       |      | 34   |               |               |               |               | 1             |               |      |      |      |      |               |
| 441+70.00 - 53.67' L TO 14.33' L             |          |      |       | 36    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 441+70.00 - 53.67' L TO 442+20.00 - 53.67' L |          |      |       | 44    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 442+20.00 - 53.67' L TO 443+58.00 - 53.67' L |          |      |       | 134   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 443+58.00 - 53.67' L TO 445+10.00 - 53.67' L |          |      |       | 148   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 430+89.00 - 14.33' R TO 432+77.00 - 14.33' R |          |      |       | 186   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 432+77.00 - 14.33' R TO 434+96.00 - 14.33' R |          |      |       | 218   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 434+96.00 - 14.33' R TO 437+00.00 - 14.33' R |          |      |       | 202   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 437+00.00 - 14.33' R TO 438+35.00 - 14.33' R |          |      |       |       | 132  |      |               |               |               |               |               |               |      |      |      |      |               |
| 438+35.00 - 14.33' R TO 439+70.00 - 14.33' R |          |      |       |       | 132  |      |               |               |               |               |               |               |      |      |      |      |               |
| 439+70.00 - 14.33' R TO 441+20.00 - 14.33' R |          |      |       |       | 146  |      |               |               |               |               |               |               |      |      |      |      |               |
| 441+20.00 - 14.33' R TO 441+70.00 - 14.33' R |          |      |       |       |      | 44   |               |               |               |               |               |               |      |      |      |      |               |
| 441+70.00 - 53.67' R TO 441+69.00 - 117' R   |          |      |       |       |      |      | 54            |               |               |               | 1             |               |      |      |      |      |               |
| 441+70.00 - 14.33' R TO 53.67' R             |          |      |       |       |      | 36   |               |               |               |               |               |               |      |      |      |      |               |
| 441+70.00 - 14.33' R TO 442+20.00 - 14.33' R |          |      |       | 44    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 442+20.00 - 14.33' R TO 443+58.00 - 14.33' R |          |      |       | 136   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 443+58.00 - 14.33' R TO 445+10.00 - 14.33' R |          |      |       | 150   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 440+26 - 122.5' R to 440+41.4 - 107.1' R     |          |      |       | 16    |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 440+41.4 - 107.1' R to 440+45.7 - 105.4' R   |          |      |       |       |      |      |               |               |               |               |               | 6             |      |      |      |      |               |
| 440+45.7 - 105.4' R to 441+13.6 - 107.3' R   |          |      |       | 70    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 441+13.6 - 107.3' R to 441+17.8 - 109.2' R   |          |      |       |       |      |      |               |               |               |               |               | 6             |      |      |      |      |               |
| 441+17.8 - 109.2' R to 441+32.3 - 125.4' R   |          |      |       | 16    |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 453+10.00 - 53.67' L TO 454+85.00 - 53.67' L |          |      |       | 170   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 454+85.00 - 53.67' L TO 456+59.00 - 53.67' L |          |      |       | 170   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 456+59.00 - 53.67' L TO 458+32.00 - 53.67' L |          |      |       | 168   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 458+32.00 - 53.67' L TO 460+06.00 - 53.67' L |          |      |       | 168   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 460+06.00 - 53.67' L TO 461+80.00 - 53.67' L |          |      |       | 168   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 461+80.00 - 53.67' L TO 462+30.00 - 53.67' L |          |      |       | 44    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 462+30.00 - 53.67' L TO 462+80.00 - 53.67' L |          |      |       | 42    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 462+80.00 - 53.67' L TO 464+09.00 - 53.67' L |          |      |       | 124   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 464+09.00 - 53.67' L TO 465+23.00 - 53.67' L |          |      |       | 110   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 462+30.00 - 53.67' L TO 14.33' L             |          |      |       |       |      | 38   |               |               |               |               |               |               |      |      |      |      |               |
| 462+30.00 - 14.33' L TO 14.33' R             |          |      |       |       |      | 26   |               |               |               |               |               |               |      |      |      |      |               |
| 462+30.00 - 14.33' R TO 53.67' R             |          |      |       |       |      | 38   |               |               |               |               |               |               |      |      |      |      |               |
| 462+30.00 - 53.67' R TO 153' R               |          |      |       |       |      | 90   |               |               |               |               | 1             |               |      |      |      |      |               |
| 453+10.00 - 14.33' R TO 454+85.00 - 14.33' R |          |      |       | 174   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 454+85.00 - 14.33' R TO 456+59.00 - 14.33' R |          |      |       | 172   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 456+59.00 - 14.33' R TO 458+32.00 - 14.33' R |          |      |       | 170   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 458+32.00 - 14.33' R TO 460+06.00 - 14.33' R |          |      |       |       | 172  |      |               |               |               |               |               |               |      |      |      |      |               |
| 460+06.00 - 14.33' R TO 461+80.00 - 14.33' R |          |      |       |       | 172  |      |               |               |               |               |               |               |      |      |      |      |               |
| 461+80.00 - 14.33' R TO 462+30.00 - 14.33' R |          |      |       | 46    |      |      |               |               |               |               |               |               |      |      |      |      |               |
| Total this page                              | 0        | 0    | 2,556 | 2,158 | 88   | 316  | 0             | 0             | 0             | 3             | 3             | 12            | 0    | 0    | 0    | 0    | 0             |

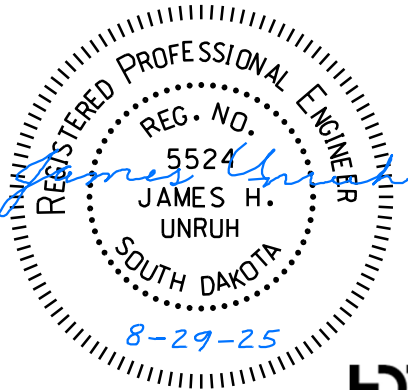




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|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B28   | B174            |

| Station    Offset (L/R)                      | Circular |      |       |      |      |      |               |               |               |               |               |               | Arch |      |      |      |               |
|----------------------------------------------|----------|------|-------|------|------|------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|---------------|
|                                              | 12"      | 15"  | 18"   | 24"  | 30"  | 36"  | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Short<br>Bend | 18"  | 36"  | 54"  | 60"  | Flared<br>End |
|                                              | CL 5     | CL 4 | CI 2  | CI 2 | CI 2 | CI 2 | 12"           | 15"           | 18"           | 24"           | 36"           | 24"           | CI 2 | CI 2 | CI 2 | CI 2 | 36"           |
|                                              | (Ft)     | (Ft) | (Ft)  | (Ft) | (Ft) | (Ft) | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (Ft) | (Ft) | (Ft) | (Ft) | (EA)          |
| 01VA Veterans Parkway                        |          |      |       |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 462+30.00 - 14.33' R TO 462+80.00 - 14.33' R |          |      |       | 44   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 462+80.00 - 14.33' R TO 464+09.00 - 14.33' R |          |      | 126   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 464+09.00 - 14.33' R TO 465+23.00 - 14.33' R |          |      | 112   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 466+00 - 139' L TO 178' R                    |          |      |       |      |      | 302  |               |               |               |               | 2             |               |      |      |      |      |               |
| 463+01 - 739' R TO 463+07 - 673' R           |          |      |       |      |      | 50   |               |               |               |               | 2             |               |      |      |      |      |               |
| 466+37.00 - 53.67' L TO 466+85.34 - 53.67' L |          |      | 46    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 466+85.34 - 53.67' L TO 468+15.00 - 53.67' L |          |      | 126   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 466+37.20 - 2.29' R TO 466+85.52 - 7.04' L   |          |      | 46    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 466+85.52 - 7.04' L TO 468+15.00 - 9.67' L   |          |      | 126   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 466+85.34 - 138' L TO 53.67' L               |          |      |       | 78   |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 466+85.34 - 53.67' L TO 466+85.52 - 7.04' L  |          |      |       | 46   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 476+13.00 - 65.67' L TO 477+73.50 - 62.33' L |          |      | 158   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 477+73.50 - 62.33' L TO 479+34.50 - 53.67' L |          |      | 158   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 479+34.50 - 53.67' L TO 480+04 - 53.67' L    |          |      | 68    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 476+13.00 - 53.67' R TO 477+73.50 - 53.67' R |          |      | 158   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 477+73.50 - 53.67' R TO 479+34.50 - 53.67' R |          |      | 158   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 479+34.50 - 53.67' R TO 479+61 - 53.67' R    |          |      | 36    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 480+49 - 53.67' L TO 480+72.50 - 53.67' L    |          |      |       | 22   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 480+72.50 - 53.67' L TO 481+69.19 - 53.67' L |          |      |       | 94   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 481+69.19 - 53.67' L TO 482+14.00 - 53.67' L |          |      |       | 38   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 482+14.00 - 53.67' L TO 482+69.19 - 53.67' L |          |      | 48    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 480+06 - 53.67' R TO 480+58.00 - 53.67' R    |          |      |       | 52   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 480+58.00 - 53.67' R TO 481+69.19 - 53.67' R |          |      |       | 108  |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 481+69.19 - 53.67' R TO 482+14.00 - 53.67' R |          |      |       | 38   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 482+14.00 - 53.67' R TO 482+69.19 - 53.67' R |          |      | 48    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 486+55.27 - 53.67' L TO 487+04.00 - 53.67' L |          |      | 44    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 487+04.00 - 53.67' L TO 487+55.27 - 53.67' L |          |      | 48    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 487+04.00 - 53.67' L TO 53.67' R             |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 487+04.00 - 53.67' R TO 104' R               |          |      |       | 44   |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 486+55.27 - 53.67' R TO 487+04.00 - 53.67' R |          |      | 44    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 487+04.00 - 53.67' R TO 487+55.27 - 53.67' R |          |      | 48    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 494+60.00 - 53.67' L TO 495+76.00 - 53.67' L |          |      | 114   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 495+76.00 - 53.67' L TO 497+24.00 - 53.67' L |          |      | 146   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 497+24.00 - 53.67' L TO 497+56.00 - 53.67' L |          |      | 30    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 497+56.00 - 53.67' L TO 498+05.66 - 53.67' L |          |      |       | 44   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+05.66 - 53.67' L TO 498+56.00 - 53.67' L |          |      | 44    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+56.00 - 53.67' L TO 499+70.00 - 53.67' L |          |      | 110   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 494+60.00 - 53.67' R TO 495+76.00 - 53.67' R |          |      | 114   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 495+76.00 - 53.67' L TO 53.67' R             |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 497+24.00 - 14.33' R TO 497+56.00 - 14.33' R |          |      | 30    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 497+56.00 - 14.33' R TO 498+05.66 - 14.33' R |          |      | 44    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+05.66 - 14.33' R TO 498+56.00 - 14.33' R |          |      | 46    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+56.00 - 14.33' R TO 499+70.00 - 14.33' R |          |      | 112   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+05.66 - 92' L TO 53.67' L                |          |      |       | 32   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+05.66 - 53.67' L TO 14.33' L             |          |      |       | 38   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+05.66 - 14.33' L TO 14.33' R             |          |      |       | 26   |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 498+05.66 - 14.33' R TO 53.67' R             |          |      | 38    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| Total this page                              | 0        | 0    | 2,638 | 704  | 0    | 352  | 0             | 0             | 0             | 2             | 4             | 0             | 0    | 0    | 0    | 0    | 0             |

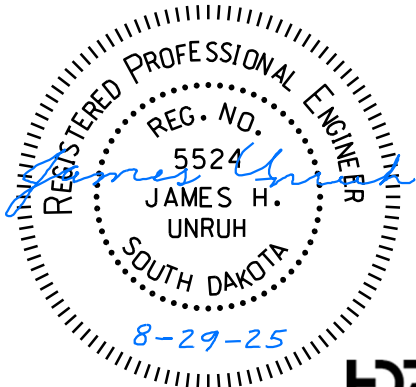




FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B29   | B174            |

| Station    Offset (L/R)                       | Circular |      |       |      |      |      |               |               |               |               |               |               | Arch |      |      |      |               |
|-----------------------------------------------|----------|------|-------|------|------|------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|---------------|
|                                               | 12"      | 15"  | 18"   | 24"  | 30"  | 36"  | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Short<br>Bend | 18"  | 36"  | 54"  | 60"  | Flared<br>End |
|                                               | CL 5     | CL 4 | CI 2  | CI 2 | CI 2 | CI 2 | 12"           | 15"           | 18"           | 24"           | 36"           | 24"           | CI 2 | CI 2 | CI 2 | CI 2 | 36"           |
|                                               | (Ft)     | (Ft) | (Ft)  | (Ft) | (Ft) | (Ft) | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (Ft) | (Ft) | (Ft) | (Ft) | (EA)          |
| 01VA Veterans Parkway                         |          |      |       |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 507+30.00 - 53.367' L TO 508+65.00 - 53.67' L |          |      | 130   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 508+65.00 - 53.67' L TO 510+00.00 - 53.67' L  |          |      | 130   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 510+00.00 - 53.67' L TO 511+49.09 - 53.67' L  |          |      | 144   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 511+49.09 - 53.67' L TO 511+79.00 - 53.67' L  |          |      | 26    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 512+20.70 - 53.67' L TO 512+50.73 - 53.67' L  |          |      | 26    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 507+30.00 - 14.33' R TO 508+65.00 - 14.33' R  |          |      | 134   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 508+65.00 - 14.33' R TO 510+00.00 - 14.33' R  |          |      | 134   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 510+00.00 - 14.33' R TO 511+49.09 - 14.33' R  |          |      | 148   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 511+49.09 - 14.33' R TO 511+79.00 - 14.33' R  |          |      | 26    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 511+79.00 - 92' L TO 53.67' L                 |          |      |       |      |      |      |               |               |               |               |               |               |      | 30   |      |      | 1             |
| 511+79.00 - 53.67' L TO 14.33' R              |          |      |       |      |      |      |               |               |               |               |               |               |      | 66   |      |      |               |
| 511+79.00 - 14.33' R TO 118' R                |          |      |       |      |      |      |               |               |               |               |               |               |      | 96   |      |      | 1             |
| 512+00.00 - 92' L TO 53.67' L                 |          |      |       |      |      |      |               |               |               |               |               |               |      | 30   |      |      | 1             |
| 512+00.00 - 53.67' L TO 14.33' L              |          |      |       |      |      |      |               |               |               |               |               |               |      | 38   |      |      |               |
| 512+00.00 - 14.33' L TO 14.33' R              |          |      |       |      |      |      |               |               |               |               |               |               |      | 28   |      |      |               |
| 512+00.00 - 14.33' R TO 53.67' R              |          |      |       |      |      |      |               |               |               |               |               |               |      | 38   |      |      |               |
| 512+00.00 - 53.67' R TO 118' R                |          |      |       |      |      |      |               |               |               |               |               |               |      | 56   |      |      | 1             |
| 512+20.70 - 92' L TO 53.67' L                 |          |      |       |      |      |      |               |               |               |               |               |               |      | 30   |      |      | 1             |
| 512+20.70 - 53.67' L TO 14.33' R              |          |      |       |      |      |      |               |               |               |               |               |               |      | 66   |      |      |               |
| 512+20.70 - 14.33' R TO 118' R                |          |      |       |      |      |      |               |               |               |               |               |               |      | 96   |      |      | 1             |
| 512+20.70 - 14.33' R TO 512+50.93 - 9.71' R   |          |      | 28    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 513+32.00 - 53.67' L TO 6.73' L               |          |      | 46    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 513+32.00 - 6.73' L TO 115' R                 |          |      | 116   |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 515+72.00 - 53.67' L TO 9.67' L               |          |      | 42    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 515+72.00 - 9.67' L TO 116' R                 |          |      | 120   |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 517+94.00 - 53.67' L TO 65.67' R              |          |      | 118   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 517+94.00 - 65.67' R TO 104' R                |          |      | 32    |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 520+52.00 - 65.67' L TO 53.67' R              |          |      | 118   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 520+52.00 - 53.67' R TO 107' R                |          |      | 46    |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 523+45.00 - 113' L TO 65.67' L                |          |      | 40    |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 523+45.00 - 65.67' L TO 53.67' R              |          |      | 118   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 523+45.00 - 65.67' L TO 525+17.00 - 64.00' L  |          |      | 170   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 525+17.00 - 64.00' L TO 53.67' R              |          |      | 116   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 525+17.00 - 64.00' L TO 527+57.00 - 53.67' L  |          |      | 238   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 527+57.00 - 53.67' L TO 53.67' R              |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 529+97.00 - 90' L TO 53.67' L                 |          |      | 30    |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 529+97.00 - 53.67' L TO 53.67' R              |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 532+37.00 - 101' L TO 53.67' L                |          |      | 40    |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 532+37.00 - 53.67' L TO 53.67' R              |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 534+77.00 - 102' L TO 53.67' L                |          |      | 42    |      |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 534+77.00 - 53.67' L TO 53.67' R              |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 534+77.00 - 53.67' L TO 536+90.00 - 53.67' L  |          |      | 210   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 536+90.00 - 53.67' L TO 53.367' R             |          |      | 106   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| Total this page                               | 0        | 0    | 3,098 | 0    | 0    | 0    | 0             | 0             | 8             | 0             | 0             | 0             | 0    | 574  | 0    | 0    | 6             |

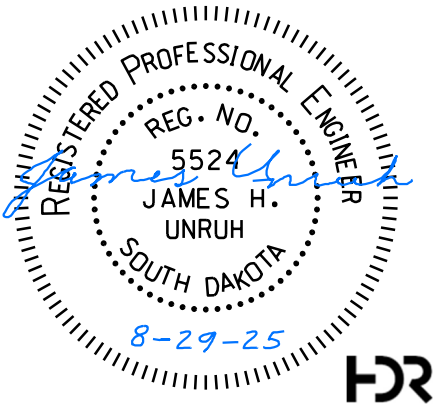




FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B30   | B174            |

| TABLE OF REINFORCED CONCRETE PIPE              |          |      |       |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
|------------------------------------------------|----------|------|-------|------|------|------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|---------------|
| Station    Offset (L/R)                        | Circular |      |       |      |      |      |               |               |               |               |               |               | Arch |      |      |      |               |
|                                                | 12"      | 15"  | 18"   | 24"  | 30"  | 36"  | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Short<br>Bend | 18"  | 36"  | 54"  | 60"  | Flared<br>End |
|                                                | CL 5     | CL 4 | CL 2  | CL 2 | CL 2 | CL 2 | 12"           | 15"           | 18"           | 24"           | 36"           | 24"           | CL 2 | CL 2 | CL 2 | CL 2 | 36"           |
|                                                | (Ft)     | (Ft) | (Ft)  | (Ft) | (Ft) | (Ft) | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (Ft) | (Ft) | (Ft) | (Ft) | (EA)          |
| 01VA SD Highway 11                             |          |      |       |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1139+94.00 - 51.44' L TO 36.17' R              |          |      | 86    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1139+94.00 - 36.17' R TO 100' R                |          |      | 56    |      |      |      |               |               | 1             |               |               |               |      |      |      |      |               |
| 1143+44.00 - 36.17' L TO 39.91' R              |          |      | 76    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1143+44.00 - 39.91' R TO 1145+44.00 - 48.17' R |          |      | 188   |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1145+44.00 - 36.17' L TO 48.17' R              |          |      | 84    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1145+44.00 - 48.17' R TO 87' R                 |          |      | 32    |      |      |      |               |               | 1             |               |               |               |      |      |      |      |               |
| 1147+94.00 - 91' L TO 48.17' L                 |          |      | 36    |      |      |      |               |               | 1             |               |               |               |      |      |      |      |               |
| 1147+94.00 - 48.17' L TO 42.17' R              |          |      | 90    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1147+94.00 - 42.17' R TO 1148+55.00 - 41.39' R |          |      | 52    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1148+55.00 - 41.39' R TO 1149+00.00 - 38.18' R |          |      | 36    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1149+57.86 - 46.20' L TO 1150+00.66 - 41.28' L |          |      | 36    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1150+00.66 - 41.28' L TO 1150+43.85 - 37.39' L |          |      | 36    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1150+43.85 - 76' L TO 37.39' L                 |          |      | 32    |      |      |      |               |               | 1             |               |               |               |      |      |      |      |               |
| 1150+43.85 - 37.39' L TO 36.17' R              |          |      | 72    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1153+70.22 - 76' L TO 36.17' L                 |          |      |       |      |      | 32   |               |               |               |               | 1             |               |      |      |      |      |               |
| 1153+70.22 - 36.17' L TO 36.17' R              |          |      |       |      |      | 70   |               |               |               |               |               |               |      |      |      |      |               |
| 1153+70.22 - 36.17' R TO 76' R                 |          |      |       |      |      | 32   |               |               |               |               | 1             |               |      |      |      |      |               |
| 1156+95 - 79' L TO 1157+44.00 - 36.17' L       |          |      | 62    |      |      |      |               |               | 1             |               |               |               |      |      |      |      |               |
| 1157+44.00 - 36.17' L TO 36.17' R              |          |      | 70    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1160+94.00 - 36.17' L TO 36.17' R              |          |      | 70    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1160+94.00 - 36.17' R TO 76' R                 |          |      |       | 32   |      |      |               |               |               |               | 1             |               |      |      |      |      |               |
| 1162+91 - 84' R TO 1163+88 - 86' R             |          |      | 82    |      |      |      |               |               | 2             |               |               |               |      |      |      |      |               |
| 1164+36.50 - 39.67' L TO 39.67' R              |          |      | 78    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1164+36.50 - 39.67' R TO 79' R                 |          |      |       | 32   |      |      |               |               |               |               | 1             |               |      |      |      |      |               |
| 1166+39 - 84' L TO 1167+13 - 84' L             |          |      | 62    |      |      |      |               |               | 2             |               |               |               |      |      |      |      |               |
| 1166+58.00 - 7.66' R TO 81' R                  |          |      | 66    |      |      |      |               |               | 1             |               |               |               |      |      |      |      |               |
| 1167+55.00 - 38.61' L TO 38.61' R              |          |      | 76    |      |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 1167+55.00 - 38.61' R TO 78' R                 |          |      |       | 32   |      |      |               |               |               |               | 1             |               |      |      |      |      |               |
| Total this page                                | 0        | 0    | 1,478 | 96   | 0    | 134  | 0             | 0             | 10            | 3             | 2             | 0             | 0    | 0    | 0    | 0    | 0             |

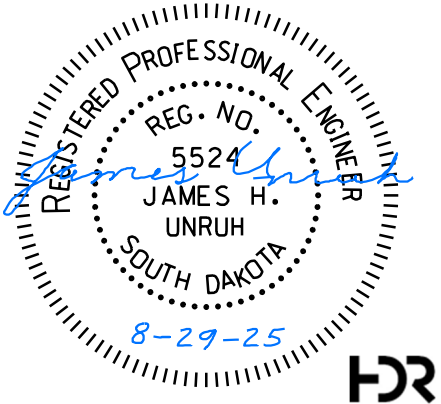




FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B31   | B174            |

| TABLE OF REINFORCED CONCRETE PIPE            |          |      |        |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
|----------------------------------------------|----------|------|--------|-------|------|------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|---------------|
| Station    Offset (L/R)                      | Circular |      |        |       |      |      |               |               |               |               |               |               | Arch |      |      |      |               |
|                                              | 12"      | 15"  | 18"    | 24"   | 30"  | 36"  | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Short<br>Bend | 18"  | 36"  | 54"  | 60"  | Flared<br>End |
|                                              | CL 5     | CL 4 | CL 2   | CL 2  | CL 2 | CL 2 | 12"           | 15"           | 18"           | 24"           | 36"           | 24"           | CL 2 | CL 2 | CL 2 | CL 2 | 36"           |
|                                              | (Ft)     | (Ft) | (Ft)   | (Ft)  | (Ft) | (Ft) | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (Ft) | (Ft) | (Ft) | (Ft) | (EA)          |
| 01VA 69th St/CR 102 Conn.                    |          |      |        |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 901+50.00 - 19.50' L TO 20.27' R             |          |      | 38     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 901+50.00 - 20.27' R TO 59' R                |          |      |        | 32    |      |      |               |               |               | 1             |               |               |      |      |      |      |               |
| 901+50.00 - 20.27' R TO 902+01.67 - 19.50' R |          |      | 48     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 902+01.67 - 19.50' L TO 19.50' R             |          |      | 38     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 902+01.67 - 19.50' R TO 902+50.00 - 19.50' R |          |      | 44     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 902+50.00 - 19.5' L TO 19.50' R              |          |      | 38     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 908+21.46 - 19.50' L TO 19.50' R             |          |      | 38     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 908+21.46 - 19.50' R TO 908+73.10 - 19.50' R |          |      | 46     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 908+73.10 - 55' L TO 19.50' L                |          |      |        |       |      |      |               |               |               |               |               |               |      | 28   |      |      | 1             |
| 908+73.10 - 19.50' L TO 19.50' R             |          |      |        |       |      |      |               |               |               |               |               |               |      | 38   |      |      |               |
| 908+73.10 - 19.50' R TO 56' R                |          |      |        |       |      |      |               |               |               |               |               |               |      | 28   |      |      | 1             |
| 909+00.00 - 55' L TO 24.00' R                |          |      |        |       |      |      |               |               |               |               |               |               |      | 70   |      |      | 1             |
| 909+00.00 - 24.00' R TO 56' R                |          |      |        |       |      |      |               |               |               |               |               |               |      | 22   |      |      | 1             |
| 909+00.00 - 24.00' R TO 909+21.48 - 19.50' R |          |      | 18     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 909+21.48 - 19.50' L TO 19.50' R             |          |      | 38     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| Total this page                              | 0        | 0    | 346    | 32    | 0    | 0    | 0             | 0             | 0             | 1             | 0             | 0             | 0    | 186  | 0    | 0    | 4             |
| Total 01VA                                   | 0        | 0    | 10,116 | 2,990 | 88   | 802  | 0             | 0             | 18            | 9             | 9             | 12            | 0    | 760  | 0    | 0    | 10            |
| 08DK 57th Street                             |          |      |        |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 61+87.00 - 33.85' R TO 53.00' R              |          |      | 16     |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 61+82.00 - 35.00' R TO 61+87.00 - 33.85' R   |          |      | 4      |       |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 61+87.00 - 33.85' R TO 61+92.00 - 35.00' R   |          |      |        | 4     |      |      |               |               |               |               |               |               |      |      |      |      |               |
| 63+10.00 - 40.86' L TO 63+55.00 - 40.86' L   |          |      |        |       |      |      |               |               |               |               |               |               | 40   |      |      |      |               |
| 63+55.00 - 40.86' L TO 63+96.85 - 43.48' L   |          |      |        |       |      |      |               |               |               |               |               |               | 38   |      |      |      |               |
| 63+96.85 - 43.48' L TO 64+00.00 - 34.50' R   |          |      |        |       |      |      |               |               |               |               |               |               | 76   |      |      |      |               |
| 63+10.00 - 56.13' R TO 63+55.00 - 56.13' R   |          |      |        |       |      |      |               |               |               |               |               |               | 40   |      |      |      |               |
| 63+55.00 - 56.13' R TO 64+00.00 - 56.13' R   |          |      |        |       |      |      |               |               |               |               |               |               | 40   |      |      |      |               |
| 64+00.00 - 34.50' R TO 56.13' R              |          |      |        |       |      |      |               |               |               |               |               |               | 18   |      |      |      |               |
| 65+76.00 - 35.00' R TO 66+20 - 94' R         |          |      |        |       |      |      |               |               |               |               |               |               |      |      |      | 40   |               |
| 65+75.00 - 35.00' L TO 66+03 - 90' L         |          |      |        |       |      |      |               |               |               |               |               |               |      |      | 32   |      |               |
| Total this page                              | 0        | 0    | 20     | 4     | 0    | 0    | 0             | 0             | 0             | 0             | 0             | 0             | 252  | 0    | 32   | 40   | 0             |
| Total 08DK                                   | 0        | 0    | 20     | 4     | 0    | 0    | 0             | 0             | 0             | 0             | 0             | 0             | 252  | 0    | 32   | 40   | 0             |

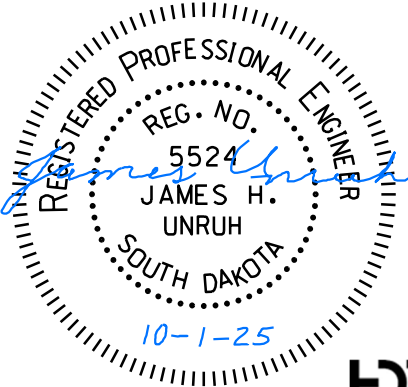




FOR BIDDING PURPOSES ONLY

|                             |                                             |       |                 |
|-----------------------------|---------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                     | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 14732(00) | B32   | B174            |

| TABLE OF REINFORCED CONCRETE PIPE                |          |      |        |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
|--------------------------------------------------|----------|------|--------|-------|------|-------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|------|------|---------------|
| Station    Offset (L/R)                          | Circular |      |        |       |      |       |               |               |               |               |               |               | Arch |      |      |      |               |
|                                                  | 12"      | 15"  | 18"    | 24"   | 30"  | 36"   | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Flared<br>End | Short<br>Bend | 18"  | 36"  | 54"  | 60"  | Flared<br>End |
|                                                  | CL 5     | CL 4 | CI 2   | CI 2  | CI 2 | CI 2  | 12"           | 15"           | 18"           | 24"           | 36"           | 24"           | CI 2 | CI 2 | CI 2 | CI 2 | 36"           |
|                                                  | (Ft)     | (Ft) | (Ft)   | (Ft)  | (Ft) | (Ft)  | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (EA)          | (Ft) | (Ft) | (Ft) | (Ft) | (EA)          |
| 08DJ 69th Street                                 |          |      |        |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1109+65.69 - 27.06' L TO 1110+29.94 - 27.41' L   | 54       |      |        |       |      |       | 2             |               |               |               |               |               |      |      |      |      |               |
| 1114+14.90 - 29.02' L TO 1114+22.97 - 23.09' R   |          | 42   |        |       |      |       |               | 2             |               |               |               |               |      |      |      |      |               |
| 1115+37.45 - 22.34' L TO 1115+58.93 - 27.52' R   |          | 46   |        |       |      |       |               | 2             |               |               |               |               |      |      |      |      |               |
| 1118+08.31 - 32.49' TO 1118+08.44 - 32.50' R     |          |      | 66     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1118+08.44 - 34.50' R TO 1118+08.55 - 84.37' R   |          |      |        | 44    |      |       |               |               |               | 1             |               |               |      |      |      |      |               |
| 1118+13.01 - 33.50' R TO 1120+10.42 - 33.49' R   |          |      | 194    |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1120+15.00 - 32.50' R TO 1120+15.00 - 32.50' L   |          |      | 66     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1120+19.57 - 33.49' R TO 1122+24.42 - 33.48' R   |          |      | 202    |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1122+29.00 - 32.49' R TO 1122+29.00 - 32.50' L   |          |      | 66     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1122+29.00 - 34.50' L TO 1122+29.00 - 66.02' L   |          |      | 26     |       |      |       |               |               | 1             |               |               |               |      |      |      |      |               |
| 1122+33.42 - 33.50' L TO 1123+60.16 - 44.50'     |          |      | 130    |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1125+89.39 - 138.97' L TO 1126+68.98 - 169.58' L |          |      | 76     |       |      |       |               |               | 2             |               |               |               |      |      |      |      |               |
| 1129+62.28 - 285.89' L TO 1130+27.91 - 311.40' L |          |      | 60     |       |      |       |               |               | 2             |               |               |               |      |      |      |      |               |
| 1131+25.54 - 32.50' L TO 1131+25.55 - 32.50' R   |          |      | 66     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1131+28.55 - 33.50' R TO 1131+71.72 - 36.50' R   |          |      | 44     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1131+77.22 - 34.50' R TO 1131+77.16 - 34.50' L   |          |      | 70     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1131+77.22 - 38.50' R TO 1131+77.22 - 114.00' R  |          |      |        | 70    |      |       |               |               |               | 1             |               |               |      |      |      |      |               |
| 1131+82.72 - 36.50' R TO 1132+25.90 - 33.50' R   |          |      | 44     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1132+28.90 - 32.50' R TO 1132+28.89 - 32.50' L   |          |      | 66     |       |      |       |               |               |               |               |               |               |      |      |      |      |               |
| 1133+00.00 - 128.00' R TO 111.79' L              |          |      |        |       |      | 224   |               |               |               |               | 2             |               |      |      |      |      |               |
| Total 08DJ                                       | 54       | 88   | 1,176  | 114   | 0    | 224   | 2             | 4             | 5             | 2             | 2             | 0             | 0    | 0    | 0    | 0    | 0             |
| Project Total                                    | 54       | 88   | 11,312 | 3,108 | 88   | 1,026 | 2             | 4             | 23            | 11            | 11            | 12            | 252  | 760  | 32   | 40   | 10            |





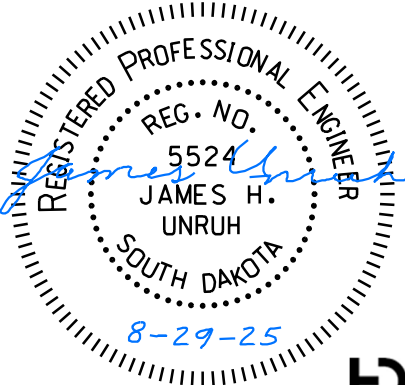
| TABLE OF RIPRAP AND DRAINAGE FABRIC |         |     |             |               |       |       |                |                        |
|-------------------------------------|---------|-----|-------------|---------------|-------|-------|----------------|------------------------|
| Station to                          | Station | L/R | Location    | Length        | Width | Depth | Class B Riprap | Type B Drainage Fabric |
|                                     |         |     |             | (ft)          | (ft)  | (ft)  | (ton)          | (SqYd)                 |
| 01VA Veterans Parkway               |         |     |             |               |       |       |                |                        |
| 441+64                              | 441+76  | L   | Pipe Outlet | 18            | 12    | 2.5   | 30.8           | 48                     |
| 441+64                              | 441+76  | R   | Pipe Outlet | 13            | 12    | 2.5   | 22.2           | 37                     |
| 462+24                              | 462+36  | R   | Pipe Outlet | 16            | 12    | 2.5   | 27.4           | 44                     |
| 465+94                              | 466+06  | L   | Pipe Inlet  | 14            | 12    | 2.5   | 24.0           | 40                     |
| 465+94                              | 466+06  | R   | Pipe Outlet | 16            | 12    | 2.5   | 27.4           | 44                     |
| 466+79                              | 466+91  | L   | Pipe Outlet | 14            | 12    | 2.5   | 24.0           | 40                     |
| 511+74                              | 511+84  | R   | Pipe Outlet | 18            | 10.4  | 2.5   | 26.7           | 44                     |
| 511+95                              | 512+05  | R   | Pipe Outlet | 18            | 10.4  | 2.5   | 26.7           | 44                     |
| 512+16                              | 512+26  | R   | Pipe Outlet | 18            | 10.4  | 2.5   | 26.7           | 44                     |
| 1139+89                             | 1139+99 | R   | Pipe Outlet | 16            | 10    | 2.5   | 22.8           | 39                     |
| 1153+64                             | 1153+76 | L   | Pipe Outlet | 20            | 12    | 2.5   | 34.2           | 53                     |
| 465+90                              | 901' L  | L   | Flared End  | 16            | 12    | 2.5   | 27.4           | 44                     |
| 467+52                              | 688' L  | L   | Flared End  | 16            | 12    | 2.5   | 27.4           | 44                     |
| 463+07                              | 673' R  | R   | Flared End  | 16            | 12    | 2.5   | 27.4           | 44                     |
| 463+01                              | 739' R  | R   | Flared End  | 16            | 12    | 2.5   | 27.4           | 44                     |
|                                     |         |     |             | 01VA Total    |       |       | 402.3          | 652                    |
| 08DJ 69th Street                    |         |     |             |               |       |       |                |                        |
| 1118+03                             | 1118+14 | R   | Pipe Outlet | 16            | 10    | 3     | 27.4           | 39                     |
| 1131+77                             | 1131+83 | R   | Pipe Outlet | 14            | 11    | 3     | 26.4           | 37                     |
| 1132+94                             | 1133+07 | R   | Pipe Outlet | 16            | 11    | 3     | 30.1           | 41                     |
|                                     |         |     |             | 08DJ Total    |       |       | 83.9           | 117                    |
|                                     |         |     |             | Project Total |       |       | 486.2          | 769                    |

| TABLE OF FENCE QUANTITIES               |                 |                 |              |                         |
|-----------------------------------------|-----------------|-----------------|--------------|-------------------------|
| Station to                              | Station         | Remove<br>Fence |              |                         |
|                                         |                 | Ft              | Type 2<br>Ft | 2 post<br>panel<br>Each |
| 01VA (Veterans Parkway)                 |                 |                 |              |                         |
| 430+00 - 0' L                           | 443+19 - 230' R | 1,374           |              |                         |
| 430+17 - 120' L                         | 432+86 - 120' L |                 | 269          | 2                       |
| 432+83 - 124' L                         | 432+86 - 4' R   | 128             |              |                         |
| 461+96 - 85' L                          | 460+81 - 115' R | 200             |              |                         |
| 476+76 - 26' R                          | 476+95 - 72' R  | 50              |              |                         |
| 505+85 - 167' L                         | 506+48 - 217' R | 389             |              |                         |
| 505+85 - 167' L                         | 512+05 - 205' L | 590             |              |                         |
| 512+05 - 205' L                         | 512+05 - 102' L | 103             |              |                         |
| 01VA 69th Street/Co Road 102 Connection |                 |                 |              |                         |
| 908+83 - 224' L                         | 912+07 - 2' L   | 427             |              |                         |
| 912+07 - 2' L                           | 911+91 - 40' R  | 45              |              |                         |
| Total 01VA                              |                 | 3,306           | 269          | 2                       |

BRACE PANELS FOR ROW FENCE

The E-Z Brace or an approved equal may be utilized as an alternate horizontal brace in the brace panels if approved by the Engineer. The E-Z Brace will be attached to each wood post utilizing two 5/16" x 3" lag screws. Holes of appropriate diameter, based on wood post condition, will be drilled before placement of lag screws. The following is the contact regarding the E-Z Brace:

Charlie Mack  
Macksteel E-Z Braces  
415 20<sup>th</sup> Ave. SE.  
Watertown, SD 57201  
605-882-2177



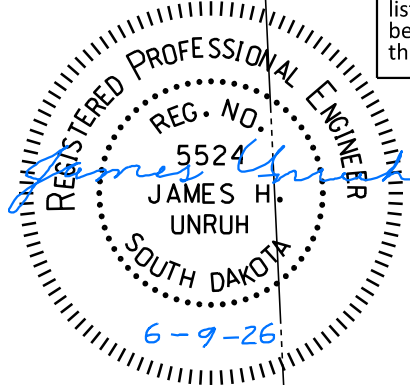
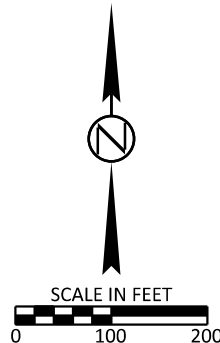


# BORROW PIT NO. 5 INFORMATION LAYOUT

FOR BIDDING PURPOSES ONLY

- Legend
- Detention Pond / Borrow Area
  - Delineated Wetland
  - Soil Boring

|                                                                |                                                       |                                          |                         |
|----------------------------------------------------------------|-------------------------------------------------------|------------------------------------------|-------------------------|
| STATE OF<br>SOUTH<br>DAKOTA                                    | PROJECT<br>NH 0100(107)411<br>P 1440(00) & P 1432(00) | SHEET<br>B34                             | TOTAL<br>SHEETS<br>B174 |
| FILE: ...\\B34-B36 (Borrow Pit 5).dgn<br>PLOT DATE: 06-10-2026 |                                                       | REV DATE: 06-09-2026<br>W INITIAL: JHU W |                         |



**WARNING  
HIGH-PRESSURE PIPELINE**

Xcel Energy will need to provide an inspector for any work within their easement. Notify the Xcel Energy Natural Gas representative listed in the utility contacts at least 48 hours before work within the easement. See also the Section B Utilities note.

SEC. 17-T100N-R49W

| PIT NO. 5                                            |                                  |                         |                                              |                                  |                                            |                        |                                 |                                  |                             |
|------------------------------------------------------|----------------------------------|-------------------------|----------------------------------------------|----------------------------------|--------------------------------------------|------------------------|---------------------------------|----------------------------------|-----------------------------|
| PROJECT NO. NH 0100(107)411; PCN 01VA COUNTY Lincoln |                                  |                         |                                              |                                  |                                            |                        |                                 |                                  |                             |
| LOCATION Within N 1/2 SEC. 17 TOWNSHIP 100 RANGE 49  |                                  |                         |                                              |                                  |                                            |                        |                                 |                                  |                             |
| PIT OWNER SDDOT ADDRESS                              |                                  |                         |                                              |                                  |                                            |                        |                                 |                                  |                             |
| Borrow Pit #5 (69th Street)                          |                                  |                         |                                              |                                  |                                            |                        |                                 |                                  |                             |
| Location                                             | (1) Avg depth of Excavation (Ft) | Available Borrow (CuYd) | Borrow used for 01V7 & 08DH (Syc Ave) (CuYd) | Borrow Available for 01VA (CuYd) | Borrow Available for 08DJ (69th St) (CuYd) | Avg Topsoil Depth (Ft) | Estimated Topsoil Volume (CuYd) | Strip Topsoil 01V7 & 08DH (CuYd) | Strip Topsoil (01VA) (CuYd) |
| Pond A                                               | 42                               | 157,996                 | 157,996                                      | 0                                | 0                                          | 1.5                    | 15,481                          | 15,481                           |                             |
| Pond B                                               | 52                               | 347,045                 | 266,174                                      | 49,574                           | 31,297                                     | 1.5                    | 22,329                          | 22,329                           |                             |
| Pond C                                               | 45                               | 354,626                 |                                              | 354,626                          |                                            | 1.5                    | 19,990                          |                                  | 19,990                      |
| Pond D                                               | 14                               | 57,865                  |                                              | 57,865                           |                                            | 1.5                    | 8,690                           |                                  | 8,690                       |
| Pond E                                               | 13                               | 13,141                  |                                              | 13,141                           |                                            | 1.5                    | 3,162                           |                                  | 3,162                       |
| Total Borrow Pit 5:                                  |                                  | 930,673                 | 424,170                                      | 475,206                          | 31,297                                     |                        | 69,652                          | 37,810                           | 31,842                      |

See Borrow Pit #5  
Drainage Detail Sheet

75' WAPA  
power line  
easement

100' Xcel gas  
line easement

See Borrow Pit #5  
Drainage Detail Sheet

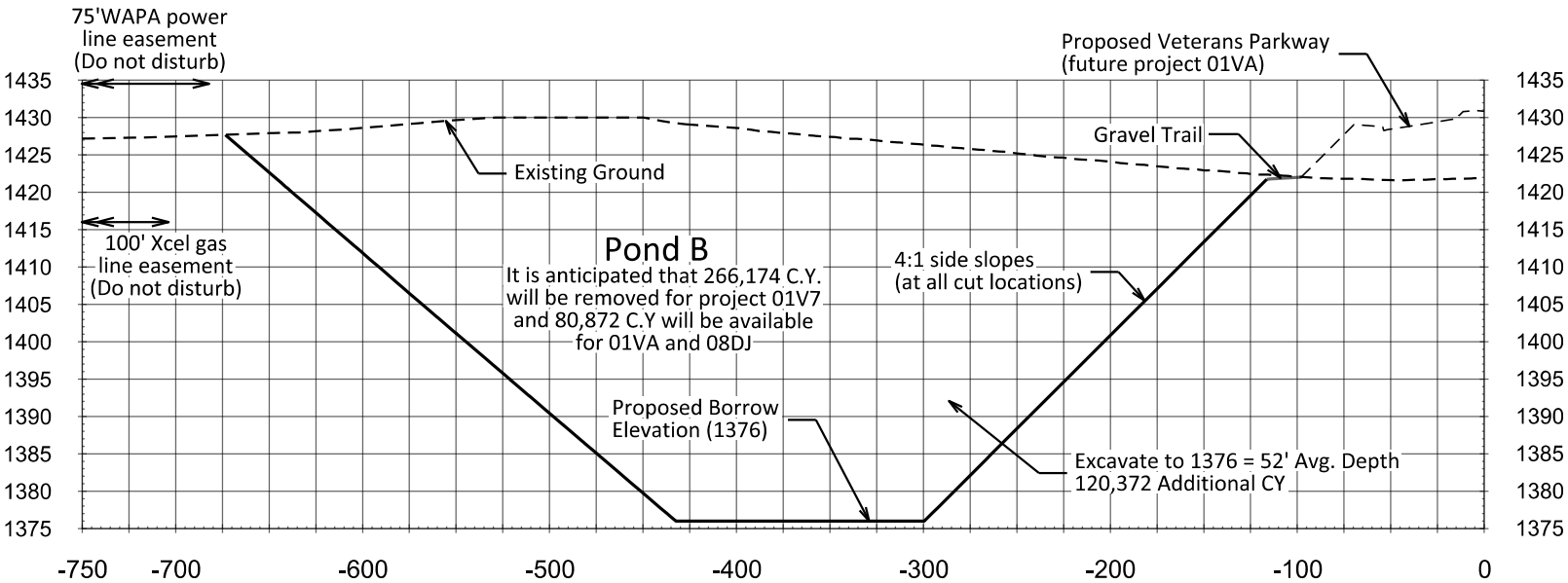




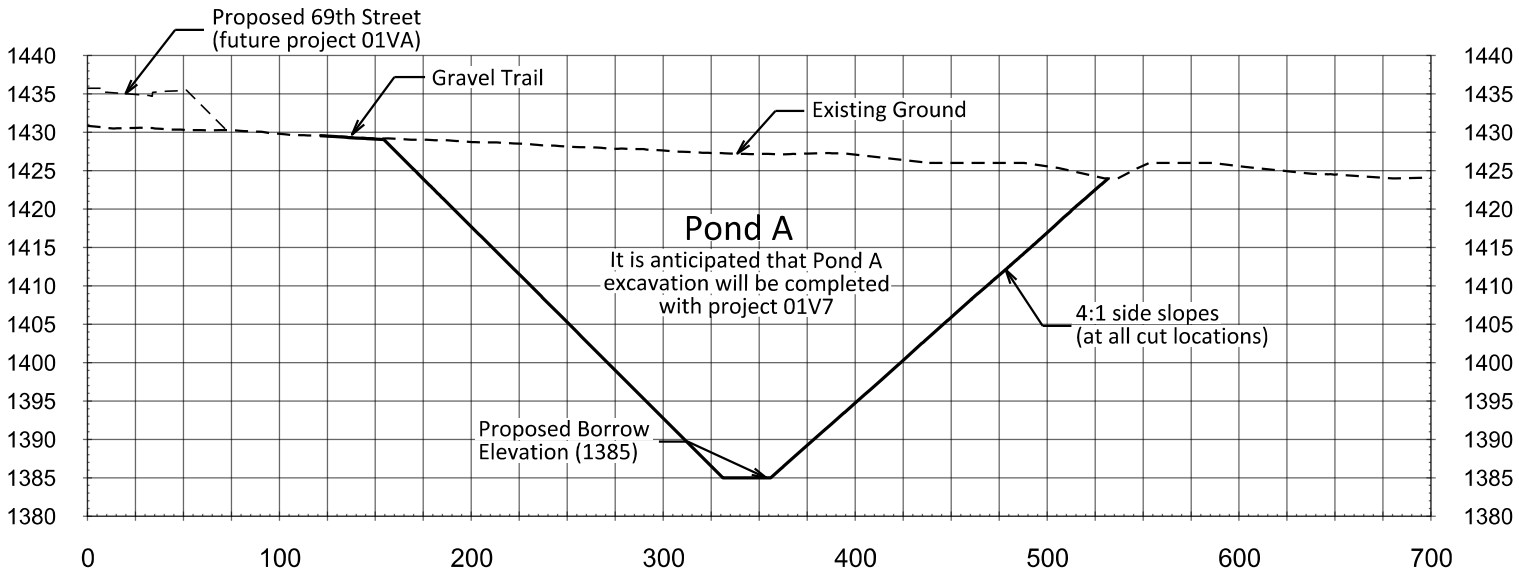
# BORROW PIT NO. 5 CROSS SECTIONS

FOR BIDDING PURPOSES ONLY

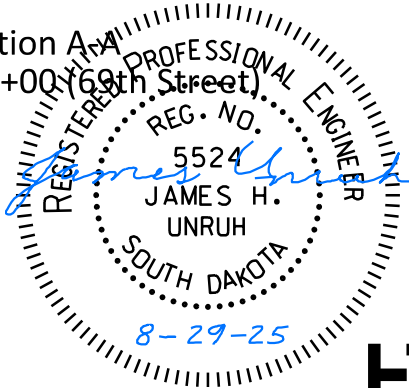
| STATE OF<br>SOUTH<br>DAKOTA                                       | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|-------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                   | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B35                   | B174            |
| FILE: ...\\B34-B36 (Borrow Pit 5).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



Section B-B  
Station 466+00 (Veterans Parkway)



Section A-A  
Station 1123+00 (69th Street)

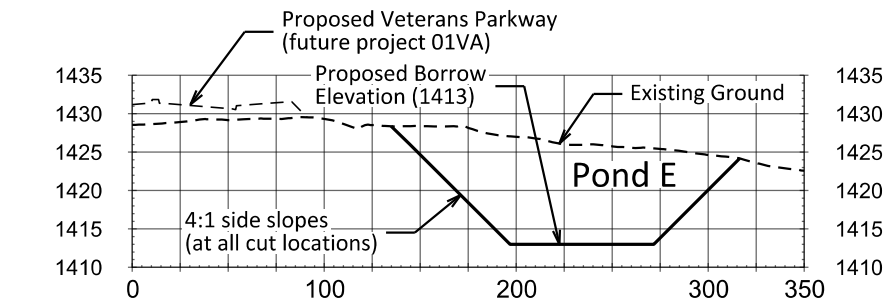




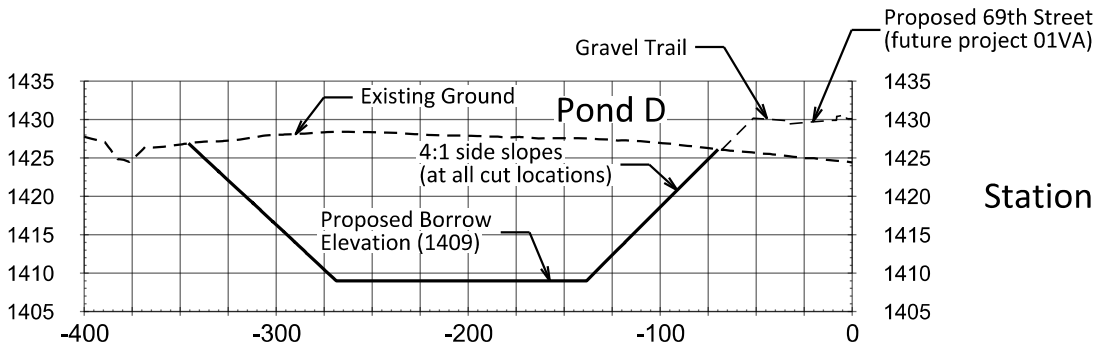
# BORROW PIT NO. 5 CROSS SECTIONS

FOR BIDDING PURPOSES ONLY

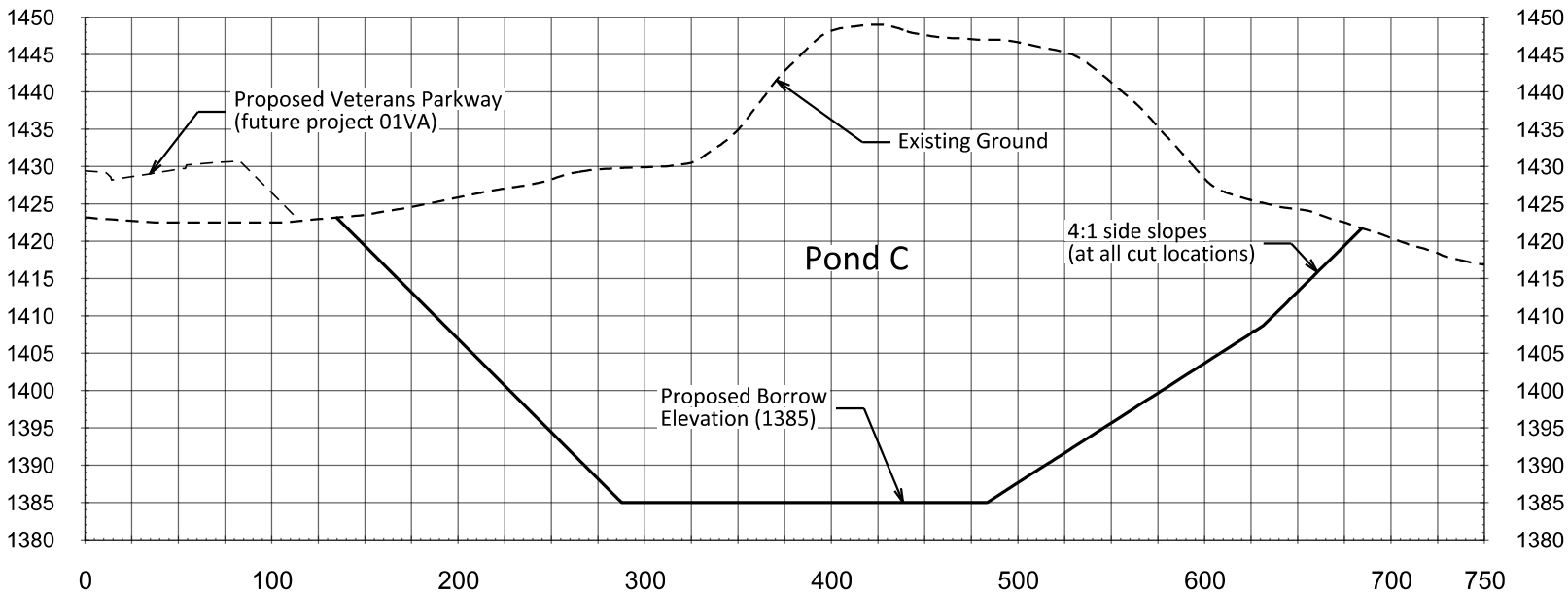
| STATE OF<br>SOUTH<br>DAKOTA                                       | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|-------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                   | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B36                   | B174            |
| FILE: ...\\B34-B36 (Borrow Pit 5).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



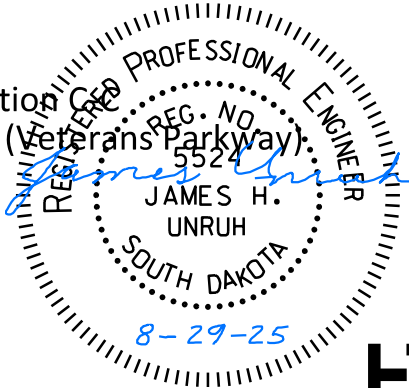
Section E-E  
Station 475+00 (Veterans Parkway)



Section D-D  
Station 1132+00 (69th Street)



Section C-C  
Station 464+00 (Veterans Parkway)





BORROW PIT NO. 5 INFORMATION LAYOUT

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B37   | B174            |

Plotting Date: 7/21/2026

REV. DATE: 7/21/2026  
INITIAL: JHU

BORROW PIT #5 (69<sup>th</sup> Street Site)

Soil borings were conducted on October 22, 2024.

Material from Pond A and a portion of Pond B was utilized for 01V7 Veterans Parkway construction in 2025. The remainder of Pond B and all of Ponds C, D, and E is intended for use for 01VA and 08DJ (69<sup>th</sup> Street) construction. Actual borrow available from the 69<sup>th</sup> Street site is pending finished grading for project 01V7.

Material from Borrow Pit #5 is also intended to be used per this anticipated distribution table:

| Borrow Pit #5 (69th St) Anticipated Distribution |                         |         |        |
|--------------------------------------------------|-------------------------|---------|--------|
| station                                          | to station              |         |        |
| 01VA Roadways                                    |                         |         |        |
| Veterans Parkway                                 |                         |         |        |
| 430+00 (begin project)                           | 471+65 (69th St / SD11) | 259,696 | (CuYd) |
| 471+65 (69th St / SD11)                          | 519+34 (57th St)        | 93,648  | (CuYd) |
| 519+34 (57th St)                                 | 524+00                  | 33,010  | (CuYd) |
| SD11                                             |                         |         |        |
| 1136+69 (Veterans)                               | 1169+47 (end project)   | 69,011  | (CuYd) |
| 69th St/CR102 Connection                         |                         |         |        |
| 901+00 (SD11)                                    | 912+69 (end project)    | 19,841  | (CuYd) |
| CIP Roadways                                     |                         |         |        |
| 08DJ 69th St                                     |                         |         |        |
| 1113+25 (begin project)                          | 1134+47 (Veterans)      | 31,297  | (CuYd) |
| Total from Pit #5                                |                         | 506,503 | (CuYd) |

The Contractor is alerted that the groundwater level in the site at most locations will likely be above the bottom of the proposed excavation. Extra effort will likely be required to dry and place this material in the highway embankment. Subsurface groundwater levels should be expected to fluctuate seasonally and yearly from the groundwater readings recorded at the test boring locations. Fluctuations occur due to varying seasonal and yearly rainfall amounts and snowmelt, as well as other factors. It is possible that the subsurface groundwater levels during or after construction could be significantly different than the time the test borings were performed.

Dewatering of the borrow pit areas may be necessary. All work necessary for dewatering including labor, equipment, and incidentals will be incidental to the contract unit price per cubic yard for "Borrow Unclassified Excavation".

Soil borings showed approximately 1' of topsoil. Stripped topsoil will not be placed in designated wetland areas. The estimated quantity for topsoil excavation is included in the Section B Table of Borrow Unclassified Excavation. For earthwork volume estimation purposes, 1.5' of topsoil was assumed.

If approved by the Engineer, additional borrow material may be taken from this borrow pit by excavating deeper than shown in the borrow site plan and sections.

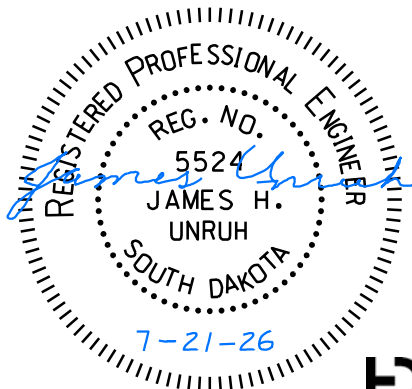
Estimated quantities for silt fence are included in Section D.

Temporary drainage will be the responsibility of the Contractor.

The Contractor will not disturb the Xcel Energy and WAPA existing easements.

|                      |            |            |            |            |            |            |            |            |           |            |
|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|
| LAB. SAMPLE #        | 25-0556    | 25-0557    | 25-0558    | 25-0559    | 25-0560    | 25-0561    | 25-0562    | 25-0563    | 25-0564   | 25-0565    |
| PIT NUMBER/NAME      | VP&69th    | VP&69th    | VP&69th    | VP&69th    | VP&69th    | VP&69th    | VP&69th    | VP&69th    | VP&69th   | VP&69th    |
| HOLE#                | SB #1      | SB #1      | SB #2      | SB #2      | SB #3      | SB #3      | SB #4      | SB #4      | SB #5     | SB #5      |
| FIELD SAMPLE #       | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9         | 10         |
| DEPTH                | 5'-10'     | 15'-20'    | 5'-10'     | 15'-20'    | 5'-10'     | 20'-26'    | 5'-10'     | 15'-20'    | 5'-10'    | 15'-20'    |
| FIELD MOISTURE       | #N/A       | #N/A       | #N/A       | #N/A       | #N/A       | #N/A       | #N/A       | #N/A       | #N/A      | #N/A       |
| DRY LOOSE WT.        | 75.4       | 76.7       | 75.8       | 77.7       | 74.4       | 72.5       | 78.3       | 76.8       | 78.6      | 76.0       |
| % passing 3/8        | 97.5       | 99.4       | 98.9       | 95.7       | 99.5       | 99.8       | 99.6       | 100.0      | 100.0     | 99.8       |
| % passing # 4        | 96.9       | 99.0       | 98.4       | 95.0       | 99.1       | 99.2       | 99.1       | 99.3       | 99.7      | 98.7       |
| % passing # 10       | 95.6       | 98.2       | 97.6       | 93.8       | 98.0       | 98.2       | 97.8       | 98.1       | 99.0      | 97.5       |
| % coarse sand        | 9.4        | 9.0        | 9.9        | 8.6        | 8.4        | 9.7        | 8.1        | 9.9        | 8.2       | 10.7       |
| % fine sand          | 20.7       | 21.7       | 20.5       | 19.0       | 20.7       | 21.3       | 19.9       | 20.7       | 17.3      | 23.2       |
| % silt               | 28.4       | 30.4       | 30.3       | 30.7       | 29.0       | 29.0       | 36.7       | 28.4       | 34.0      | 28.6       |
| % clay               | 37.1       | 37.1       | 36.9       | 35.5       | 40.0       | 38.1       | 33.0       | 39.0       | 39.4      | 34.9       |
| % passing # 40       | 86.2       | 89.2       | 87.7       | 85.1       | 89.6       | 88.4       | 89.6       | 88.1       | 90.7      | 86.7       |
| % passing # 200      | 65.5       | 67.5       | 67.2       | 66.2       | 69.0       | 67.1       | 69.7       | 67.5       | 73.4      | 63.5       |
| % coarse & fine sand | 30.1       | 30.7       | 30.4       | 27.6       | 29.1       | 31.0       | 28.0       | 30.6       | 25.5      | 34.0       |
| liquid limit         | 43         | 41         | 39         | 41         | 43         | 42         | 37         | 45         | 45        | 41         |
| liquid plastic limit | 18         | 17         | 17         | 17         | 17         | 18         | 17         | 18         | 18        | 17         |
| P. I.                | 25         | 24         | 21         | 24         | 26         | 24         | 20         | 27         | 27        | 24         |
| TEX. CLASSIFICATION  | SANDY CLAY | SANDY CLAY | SANDY CLAY | SANDY CLAY | SANDY CLAY | SANDY CLAY | SANDY CLAY | SANDY CLAY | SILT CLAY | SANDY CLAY |
| AASHTO CLASS.        | A-7-6      | A-7-6      | A-6        | A-7-6      | A-7-6      | A-7-6      | A-6        | A-7-6      | A-7-6     | A-7-6      |
| GP Index             | 12         | 12         | 11         | 12         | 14         | 13         | 11         | 14         | 16        | 12         |
| Field Color          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          |
| DEPTH TO GROUNDWATER | 8.5        |            | 11.0       |            | 9.0        |            | 9.5        |            | 10.0      |            |

|                      |            |            |
|----------------------|------------|------------|
| LAB. SAMPLE #        | 25-0566    | 25-0567    |
| PIT NUMBER           | VP&69th    | VP&69th    |
| HOLE#                | SB #6      | SB #6      |
| FIELD SAMPLE #       | 11         | 12         |
| DEPTH                | 5'-10'     | 15'-20'    |
| FIELD MOISTURE       | #N/A       | #N/A       |
| DRY LOOSE WT.        | 78.5       | 77.8       |
| % passing 3/8        | 99.6       | 99.6       |
| % passing # 4        | 99.0       | 99.2       |
| % passing # 10       | 97.2       | 98.5       |
| % coarse sand        | 11.0       | 9.4        |
| % fine sand          | 20.9       | 20.8       |
| % silt               | 29.5       | 27.1       |
| % clay               | 35.8       | 41.2       |
| LAB. SAMPLE #        | 25-0566    | 25-0567    |
| PIT NUMBER           | VP&69th    | VP&69th    |
| HOLE#                | SB #6      | SB #6      |
| FIELD SAMPLE #       | 11.0       | 12.0       |
| % passing # 40       | 86.2       | 89.1       |
| % passing # 200      | 65.2       | 68.3       |
| % coarse & fine sand | 31.9       | 30.2       |
| liquid limit         | 41         | 45         |
| liquid plastic limit | 17         | 18         |
| P. I.                | 24         | 27         |
| TEX. CLASSIFICATION  | SANDY CLAY | SANDY CLAY |
| AASHTO CLASS.        | A-7-6      | A-7-6      |
| GP Index             | 12         | 14         |
| Field Color          | 0          | 0          |
| DEPTH TO GROUNDWATER | 9.0        |            |





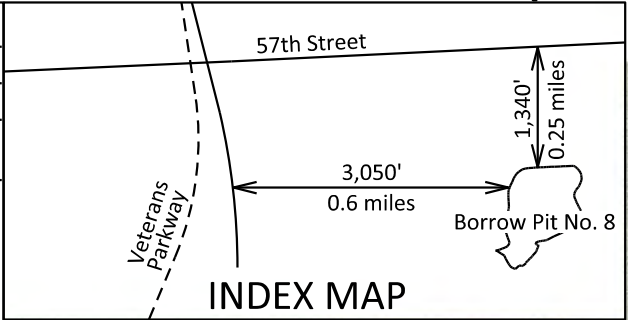
# BORROW PIT NO. 8 (JAMISON) INFORMATION LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B38   | B174            |

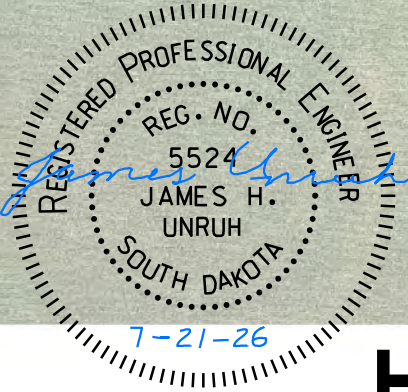
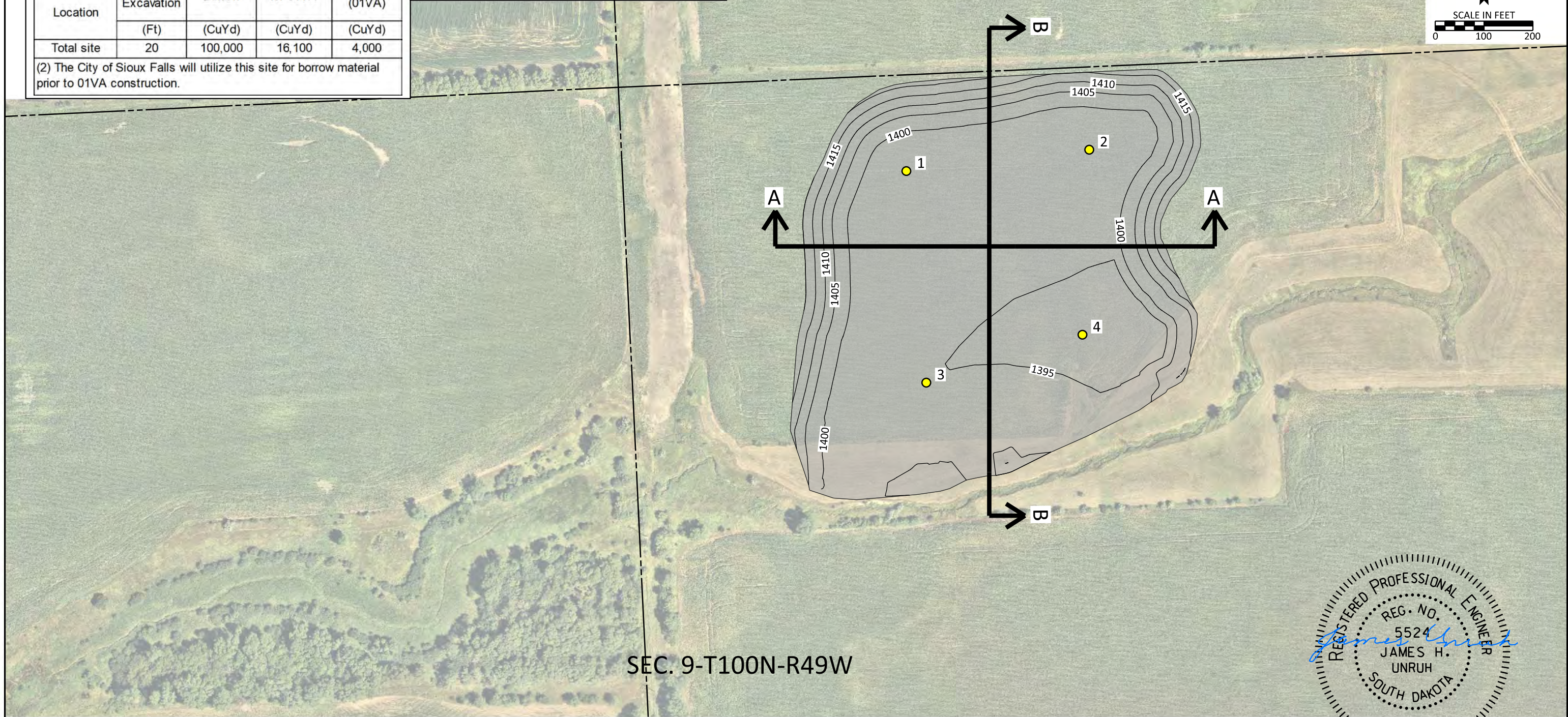
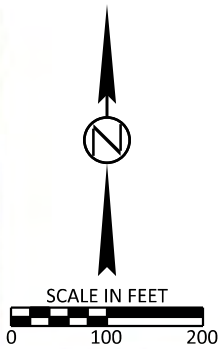
FILE: ...\\B38-B39 Borrow Pit 8.dgn  
PLOTING DATE: 07-21-2026  
REV DATE: 07-21-2026  
INITIAL: JHU

| PIT NO. 8                                                                                          |                                   |                     |                         |                            |
|----------------------------------------------------------------------------------------------------|-----------------------------------|---------------------|-------------------------|----------------------------|
| PROJECT NO. NH 0100(107)411; PCN 01VA COUNTY Lincoln                                               |                                   |                     |                         |                            |
| LOCATION Within SE 1/4 SEC. 9 TOWNSHIP 100 RANGE 49                                                |                                   |                     |                         |                            |
| PIT OWNER SDDOT ADDRESS                                                                            |                                   |                     |                         |                            |
| Borrow Pit #8 (Jamison) (2)                                                                        |                                   |                     |                         |                            |
| Location                                                                                           | (1) Avg<br>depth of<br>Excavation | Available<br>Borrow | Borrow used<br>for 01VA | Strip<br>Topsoil<br>(01VA) |
|                                                                                                    | (Ft)                              | (CuYd)              | (CuYd)                  | (CuYd)                     |
| Total site                                                                                         | 20                                | 100,000             | 16,100                  | 4,000                      |
| (2) The City of Sioux Falls will utilize this site for borrow material prior to 01VA construction. |                                   |                     |                         |                            |



Legend

- Detention Pond / Borrow Area
- Soil Boring

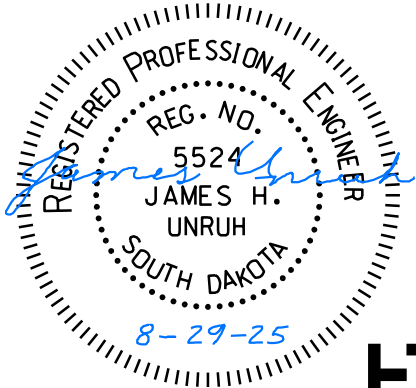
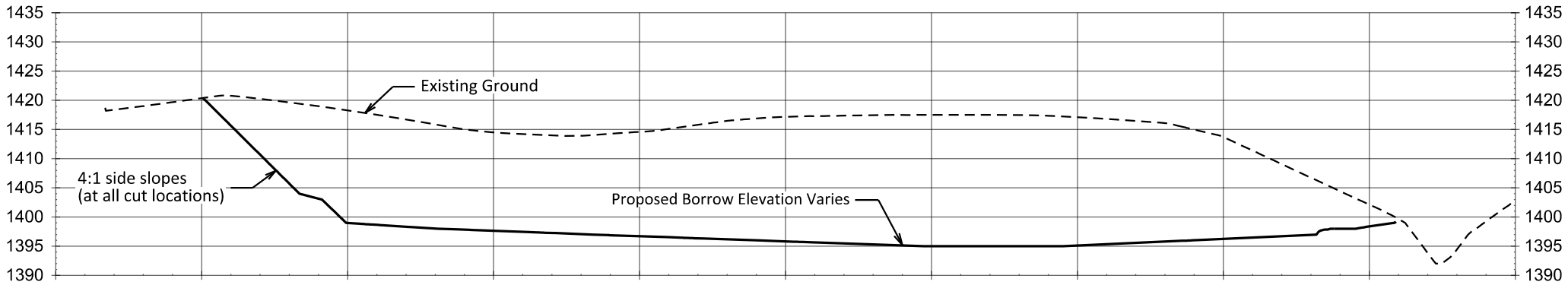
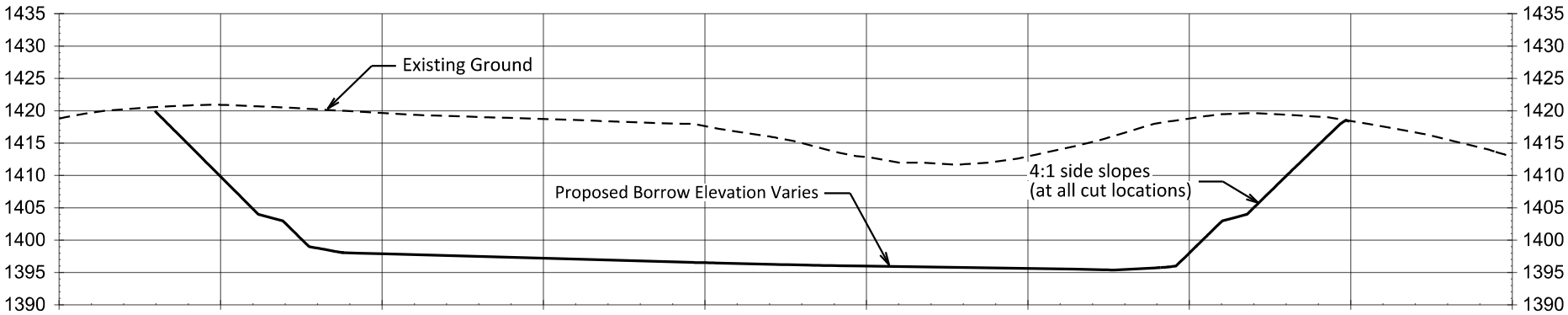




# BORROW PIT NO. 8 (JAMISON) INFORMATION LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                 |                                            |                       |                 |
|-----------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                     | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                 | NH 0100(107)411<br>P 1440(00) & P 1432(00) |                       |                 |
|                                                                 |                                            | B39                   | B174            |
| FILE: ...\\B38-B39 Borrow Pit 8.dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |





BORROW PIT NO. 8 INFORMATION LAYOUT

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B40   | B174            |

REV. DATE: 7/21/2026  
INITIAL: JHU

Plotting Date: 7/21/2026

BORROW PIT #8 (Jamison Site)

Soil borings were conducted on November 5, 2024.

Material from Borrow Pit #8 is anticipated to be used for Veterans Parkway north of 57<sup>th</sup> Street. See the anticipated distribution table below.

| Borrow Pit #8 (Jamison) Anticipated Distribution (1)                                               |                      |            |        |
|----------------------------------------------------------------------------------------------------|----------------------|------------|--------|
| station                                                                                            |                      | to station |        |
| 01VA Roadways                                                                                      |                      |            |        |
| Veterans Parkway                                                                                   |                      |            |        |
| 524+00                                                                                             | 543+80 (end project) | 15,557     | (CuYd) |
| 525+16 (crossover 1)                                                                               | 527+95               | 162        | (CuYd) |
| 541+92 (crossover 3)                                                                               | 548+98               | 381        | (CuYd) |
| Total from Pit #8 (Jamison)                                                                        |                      | 16,100     | (CuYd) |
| (1) The City of Sioux Falls will utilize this site for borrow material prior to 01VA construction. |                      |            |        |

Material from this borrow pit is also intended to be used by the City of Sioux Falls for another project prior to PCN01VA construction. Therefore, the exact conditions of the site may vary from what is shown in the borrow pit plan and cross sections.

The Contractor is alerted that the groundwater level in the site at most locations will likely be above the bottom of the proposed excavation. Extra effort will likely be required to dry and place this material in the highway embankment. Subsurface groundwater levels should be expected to fluctuate seasonally and yearly from the groundwater readings recorded at the test boring locations. Fluctuations occur due to varying seasonal and yearly rainfall amounts and snowmelt, as well as other factors. It is possible that the subsurface groundwater levels during or after construction could be significantly different than the time the test borings were performed.

Dewatering of the borrow pit areas may be necessary. All work necessary for dewatering including labor, equipment, and incidentals will be incidental to the contract unit price per cubic yard for "Borrow Unclassified Excavation".

Soil borings showed approximately 1' of topsoil (average). Stripped topsoil will not be placed in designated wetland areas. The estimated quantity for topsoil excavation is included in the Section B Table of Borrow Unclassified Excavation.

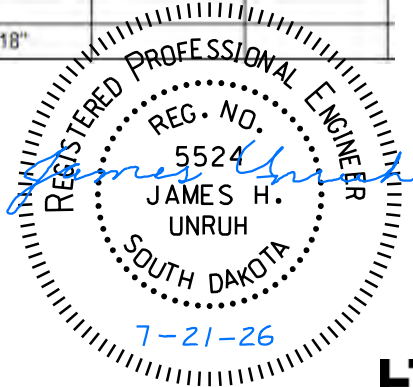
If approved by the Engineer, additional borrow material may be taken from this borrow pit by excavating deeper than shown in the borrow site plan and sections. Actual borrow needed from the Jamison site is pending actual excavation from Borrow Pit #5 (69<sup>th</sup> Street site) for Veterans project 01V7 under construction in 2025.

Estimated quantities for silt fence are included in Section D.

Temporary drainage will be the responsibility of the Contractor.

|                      |                |                |                |                |                |                |                |                |                |                |
|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| LAB. SAMPLE #        | 25-0657        | 25-0658        | 25-0659        | 25-0660        | 25-0661        | 25-0662        | 25-0663        | 25-0664        | 25-0665        | 25-0666        |
| PIT NUMBER/NAME      | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison |
| HOLE#                | SB 1           | SB 1           | SB 1           | SB 2           | SB 2           | SB 2           | SB 2           | SB 3           | SB 3           | SB 3           |
| FIELD SAMPLE #       | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             |
| DEPTH                | 0-5'           | 10'-15'        | 20'-25'        | 0-5'           | 5'-8'          | 10'-15'        | 20'-25'        | 0-5'           | 10'-15'        | 20'-25'        |
| FIELD MOISTURE       | #N/A           | #N/A           | #N/A           | #N/A           | #N/A           | #N/A           | #N/A           | #N/A           | #N/A           | #N/A           |
| DRY LOOSE WT.        | 71.4           | 75.2           | 74.0           | 73.8           | 72.7           | 75.8           | 78.9           | 72.6           | 75.1           | 75.5           |
| % passing 3/8        | 100.0          | 99.7           | 100.0          | 100.0          | 100.0          | 99.8           | 99.2           | 100.0          | 100.0          | 99.6           |
| % passing # 4        | 100.0          | 99.5           | 99.6           | 100.0          | 100.0          | 99.6           | 97.6           | 100.0          | 99.6           | 99.4           |
| % passing # 10       | 99.9           | 98.5           | 98.9           | 99.9           | 99.9           | 99.0           | 95.8           | 100.0          | 98.4           | 98.2           |
| % coarse sand        | 1.1            | 8.3            | 8.1            | 1.6            | 0.7            | 7.3            | 9.9            | 0.2            | 7.4            | 8.4            |
| % fine sand          | 1.7            | 19.5           | 19.5           | 4.8            | 2.5            | 15.5           | 18.7           | 1.7            | 16.9           | 20.0           |
| % silt               | 59.4           | 29.6           | 28.0           | 45.8           | 58.9           | 38.8           | 29.1           | 38.3           | 32.9           | 26.8           |
| % clay               | 37.8           | 41.2           | 43.3           | 47.8           | 37.8           | 37.4           | 38.1           | 59.8           | 41.1           | 43.0           |
| % passing # 40       | 98.8           | 90.3           | 90.8           | 98.3           | 99.2           | 91.7           | 86.0           | 99.8           | 91.0           | 89.8           |
| % passing # 200      | 97.1           | 70.8           | 71.3           | 93.5           | 96.7           | 76.2           | 67.2           | 98.1           | 74.0           | 69.8           |
| % coarse & fine sand | 2.8            | 27.8           | 27.6           | 6.4            | 3.2            | 22.8           | 28.6           | 1.9            | 24.4           | 28.4           |
| liquid limit         | 48             | 44             | 45             | 55             | 47             | 44             | 41             | 62             | 44             | 46             |
| liquid plastic limit | 21             | 18             | 18             | 22             | 21             | 19             | 17             | 24             | 19             | 18             |
| P. I.                | 27             | 26             | 26             | 33             | 26             | 25             | 24             | 38             | 25             | 28             |
| TEX. CLASSIFICATION  | SILT CLAY      | SILT CLAY      | SILT CLAY      | SILT CLAY      | SILT CLAY      | SILT CLAY      | SANDY CLAY     | CLAY           | SILT CLAY      | SANDY CLAY     |
| AASHTO CLASS.        | A-7-6          | A-7-6          | A-7-6          | A-7-6          | A-7-6          | A-7-6          | A-7-6          | A-7-6          | A-7-6          | A-7-6          |
| GP Index             | 16             | 14             | 15             | 19             | 16             | 15             | 12             | 20             | 15             | 15             |
| Field Color          | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| DEPTH TO GROUNDWATER | 0              | 15.5           | 0              | 0              | 6.0            | 0              | 0              | 0              | 9.5            | 0              |
| OPT. MOISTURE        |                |                |                |                |                |                |                |                |                |                |
| MAX. DRY DENSITY     |                |                |                |                |                |                |                |                |                |                |
| DEPTH OF TOPSOIL     | 10"            |                |                | NA             |                |                |                | 7"             |                |                |

|                 |                |                |                |                      |                |                |                |
|-----------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|
| LAB. SAMPLE #   | 25-0667        | 25-0668        | 25-0669        | LAB. SAMPLE #        | 25-0667        | 25-0668        | 25-0669        |
| PIT NUMBER      | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison | PIT NUMBER           | Pit #8/Jamison | Pit #8/Jamison | Pit #8/Jamison |
| HOLE#           | SB4            | SB 4           | SB 4           | HOLE#                | SB4            | SB 4           | SB 4           |
| FIELD SAMPLE #  | 11             | 12             | 13             | FIELD SAMPLE #       | 11             | 12             | 13             |
| DEPTH           | 0-5'           | 10'-15'        | 20'-25'        | % coarse & fine sand | 26.4           | 29.1           | 28.2           |
| FIELD MOISTURE  | #N/A           | #N/A           | #N/A           | liquid limit         | 49             | 46             | 43             |
| DRY LOOSE WT    | 76.6           | 75.5           | 74.5           | liquid plastic limit | 18             | 18             | 17             |
| % passing 3/8   | 100.0          | 100.0          | 100.0          | P. I.                | 31             | 28             | 26             |
| % passing # 4   | 99.3           | 99.9           | 99.7           | TEX. CLASSIFICATION  | SILT CLAY      | SANDY CLAY     | SILT CLAY      |
| % passing # 10  | 98.1           | 99.1           | 98.5           | AASHTO CLASS.        | A-7-6          | A-7-6          | A-7-6          |
| % coarse sand   | 8.2            | 9.0            | 8.3            | GP Index             | 17             | 15             | 14             |
| % fine sand     | 18.2           | 20.2           | 19.9           | Field Color          | 0              | 0              | 0              |
| % silt          | 25.8           | 26.6           | 29.1           | DEPTH TO GROUNDWATER | 0              | 0              | 25+            |
| % clay          | 45.9           | 43.4           | 41.2           | OPT. MOISTURE        |                |                |                |
| % passing # 40  | 89.9           | 90.2           | 90.2           | MAX. DRY DENSITY     |                |                |                |
| % passing # 200 | 71.7           | 70.0           | 70.3           | DEPTH OF TOPSOIL     | 18"            |                |                |





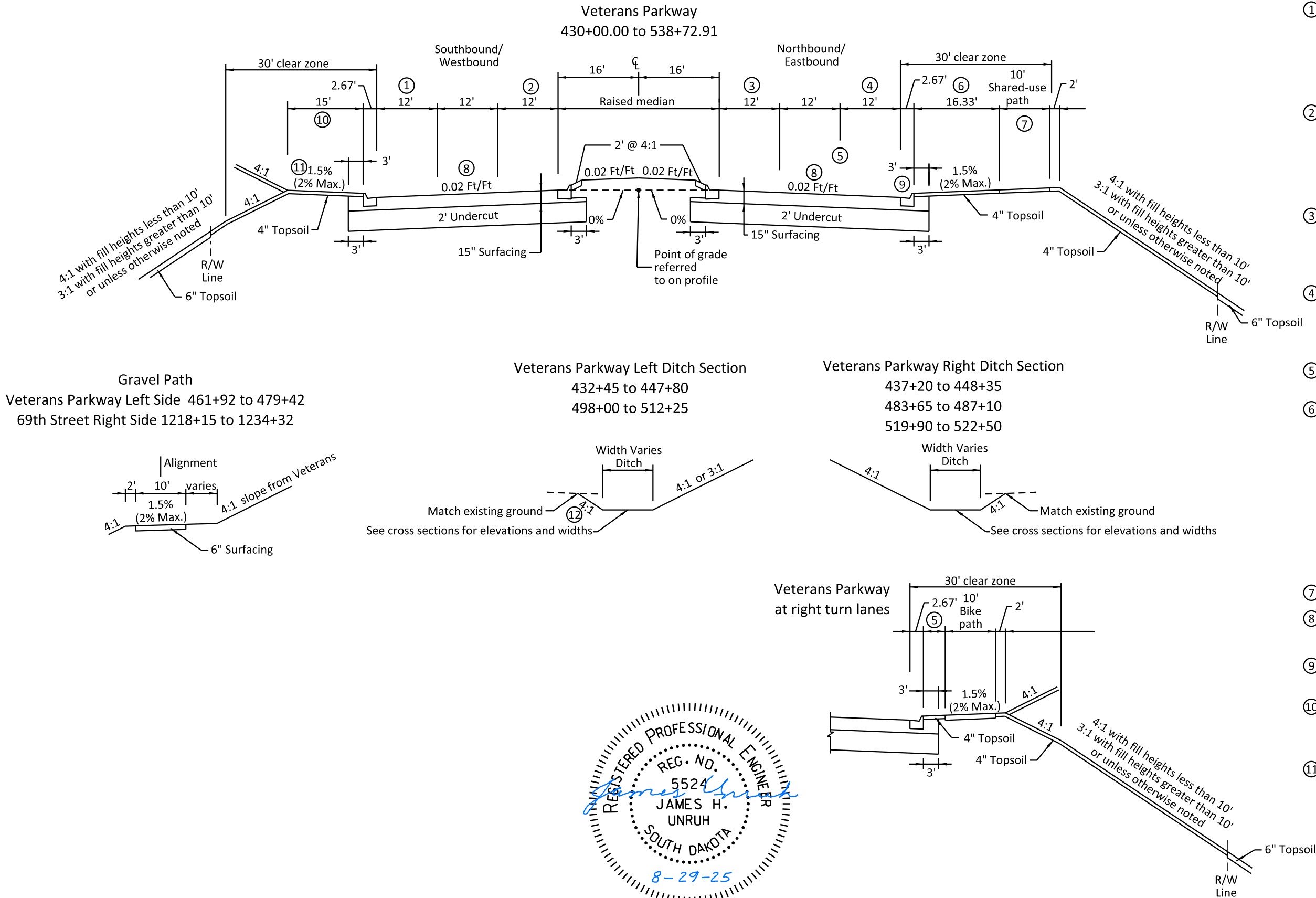
TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

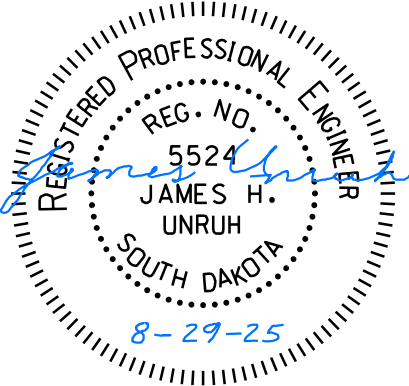
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) |       |                 |
|                             |                                            | B41   | B174            |

FILE: ...\\B41-B45 (Typ Sec).dgn  
PLOT DATE: 08-28-2025

REV DATE:  
INITIAL:



- ① Right turn lanes  
430+00.00 to 432+80.00 - 24'  
432+80.00 to 434+00.00 - 24' to 12'  
473+00.00 to 477+40.00 - 24'  
477+40.00 to 478+60.00 - 24' to 12'  
520+45.50 to 525+00.00 - 24'  
525+00.00 to 526+20.00 - 24' to 12'
- ② Left turn lanes  
430+00.00 to 432+80.00 - 36'  
432+80.00 to 434+00.00 - 36' to 12'  
473+00.00 to 478+56.58 - 36'  
478+56.58 to 479+76.58 - 36' to 12'  
520+45.50 to 525+00.00 - 36'  
525+00.00 to 526+20.00 - 36' to 12'
- ③ Left turn lanes  
465+80.00 to 467+00.00 - 12' to 36'  
467+00.00 to 470+57.51 - 36'  
512+30.00 to 513+48.00 - 12' to 36'  
513+48.00 to 518+17.37 - 36'
- ④ Right turn lanes  
465+80.00 to 467+00.00 - 24' to 12'  
467+00.00 to 470+57.51 - 24'  
512+30.00 to 513+48.00 - 24' to 12'  
513+48.00 to 518+17.37 - 24'
- ⑤ Outside 2 lanes construction ends at 536+96.00
- ⑥ Boulevard widths  
430+00.00 to 446+00.00 - 16.33'  
446+00.00 to 447+00.00 - 16.33' to 5'  
447+00.00 to 450+00.00 - 5'  
450+00.00 to 451+00.00 - 5' to 16.33'  
451+00.00 to 465+80.00 - 16.33'  
465+80.00 to 467+00.00 - 16.33' to 4.33'  
467+00.00 to 470+62.94 - 4.33' to 2'  
472+69.16 to 473+29.40 - 7.27' to 16.33'  
472+98.35 to 512+30.00 - 16.33'  
512+30.00 to 513+48.00 - 16.33' to 4.33'  
513+48.00 to 518+93.35 - 4.33'  
517+93.35 to 518+29.48 - 4.33' to 2'
- ⑦ Shared-use path ends at 57th Street
- ⑧ 1% cross slopes at intersections  
See also Superelevation table and Pavement Slope Sheets
- ⑨ Curb and gutter installation continues to station 543+80.11
- ⑩ Boulevard Width  
490+45.00 to 491+45.00 - 15' to 10'  
491+45.00 to 491+94.00 - 10'  
491+94.00 to 492+94.00 - 10' to 15'
- ⑪ Boulevard Slope  
504+50.00 to 504+75 - +2% to -2%  
504+75.00 to 505+75.00 - -2%  
505+75.00 to 506+00.00 - -2% to +2%
- ⑫ Ditch Backslope  
503+75.00 to 504+75.00 - 4:1 to 3:1  
504+75.00 to 505+75.00 - 3:1  
505+75.00 to 506+75.00 - 3:1 to 4:1





# TYPICAL SECTION

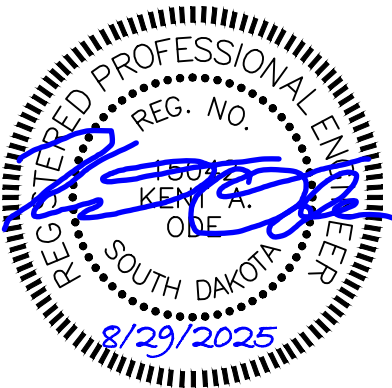
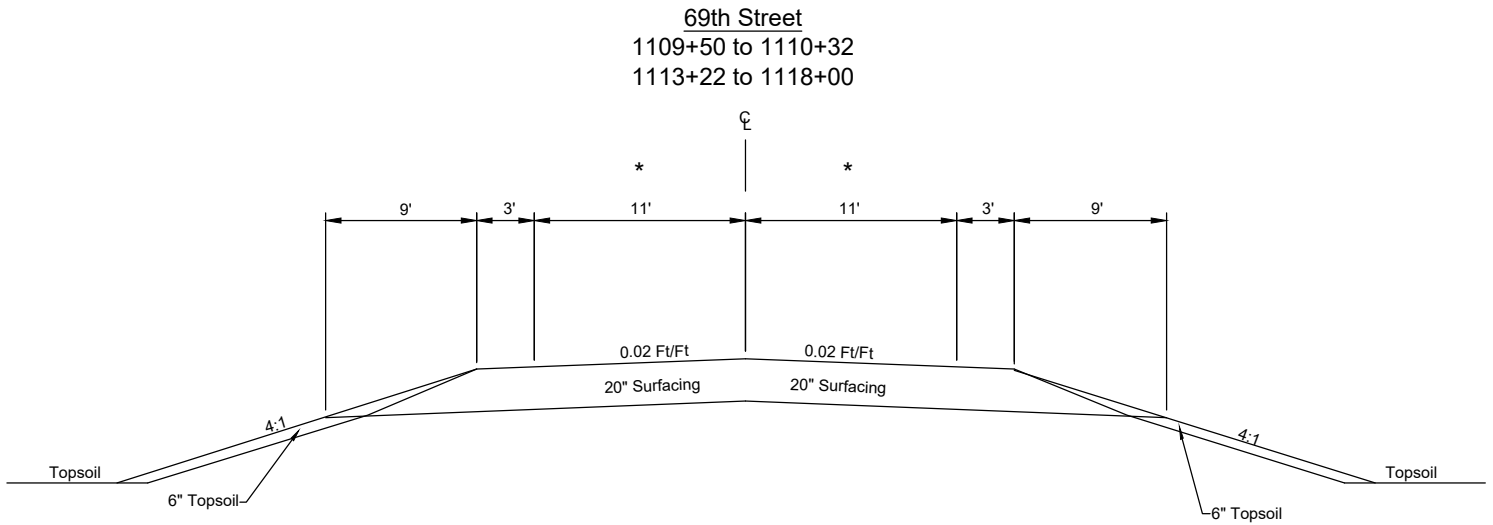
FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B42   | B174            |

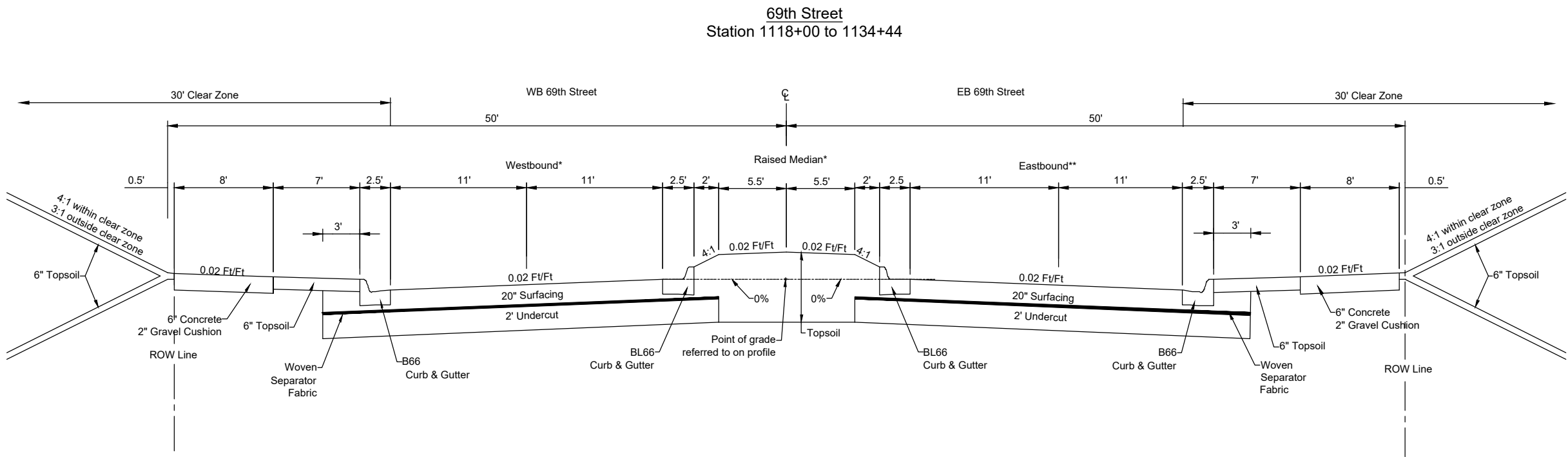
FILE: TYPICAL SECTION\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:

NOTES  
\* Tapers from station 1115+00 to station 1118+00



NOTES  
\*\*Left Turn Lane Taper 1119+33 to 1120+51  
\*\*Left Turn Lane 1120+51 to 1122+51  
\*Right Turn Lane 1123+26 to 1124+73  
\*Right Turn Lane Taper 1124+73 to 1125+92  
\*\*Left Turn Lane Taper 1130+60 to 1131+80  
\*\*Left Turn Lane 1131+80 to 1134+39  
\*U-Turn Taper 1133+09 to 1133+89  
\*U-Turn Lane 1133+89 to 1134+44





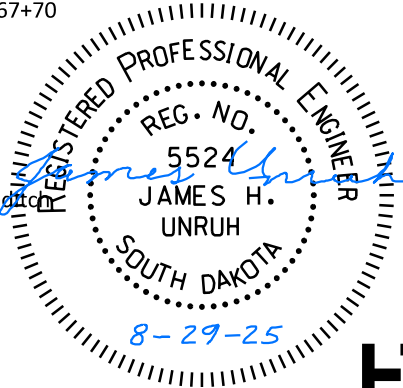
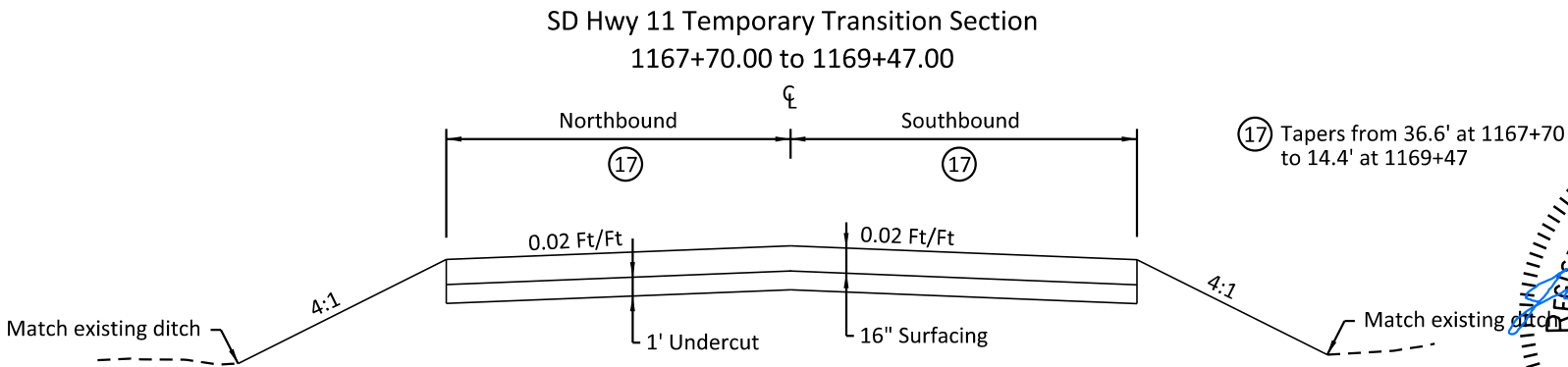
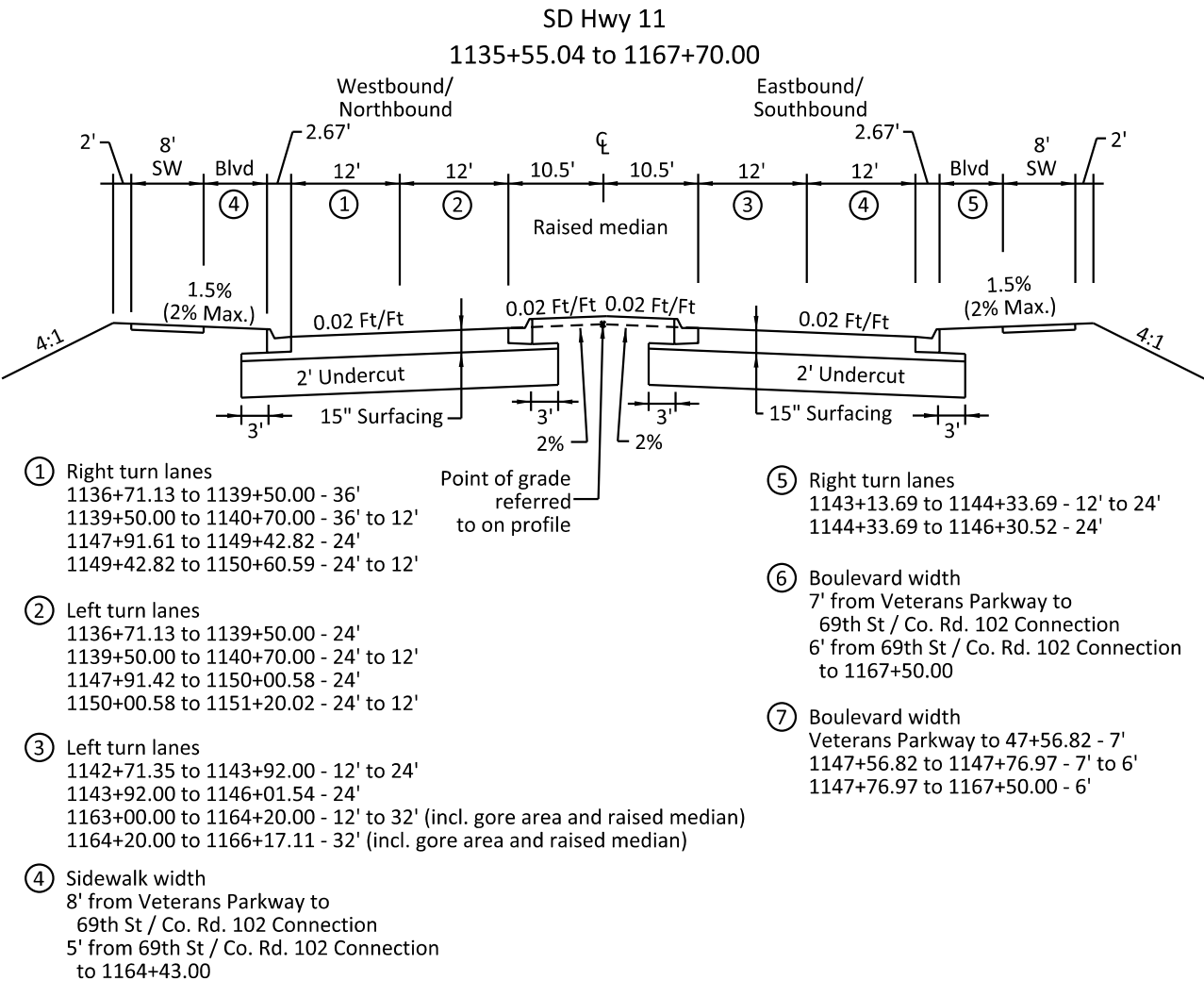
TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B43   | B174            |

FILE: ...\\B41-B45 (Typ Sec).dgn  
PLOTING DATE: 08-28-2025

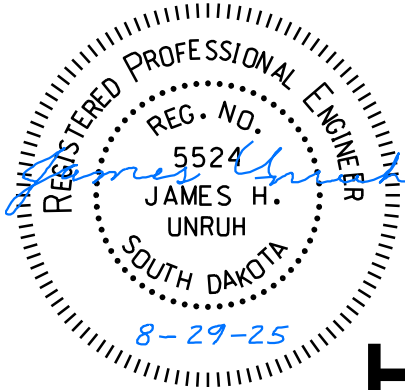
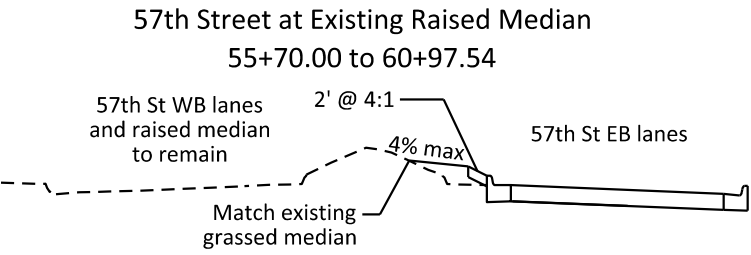
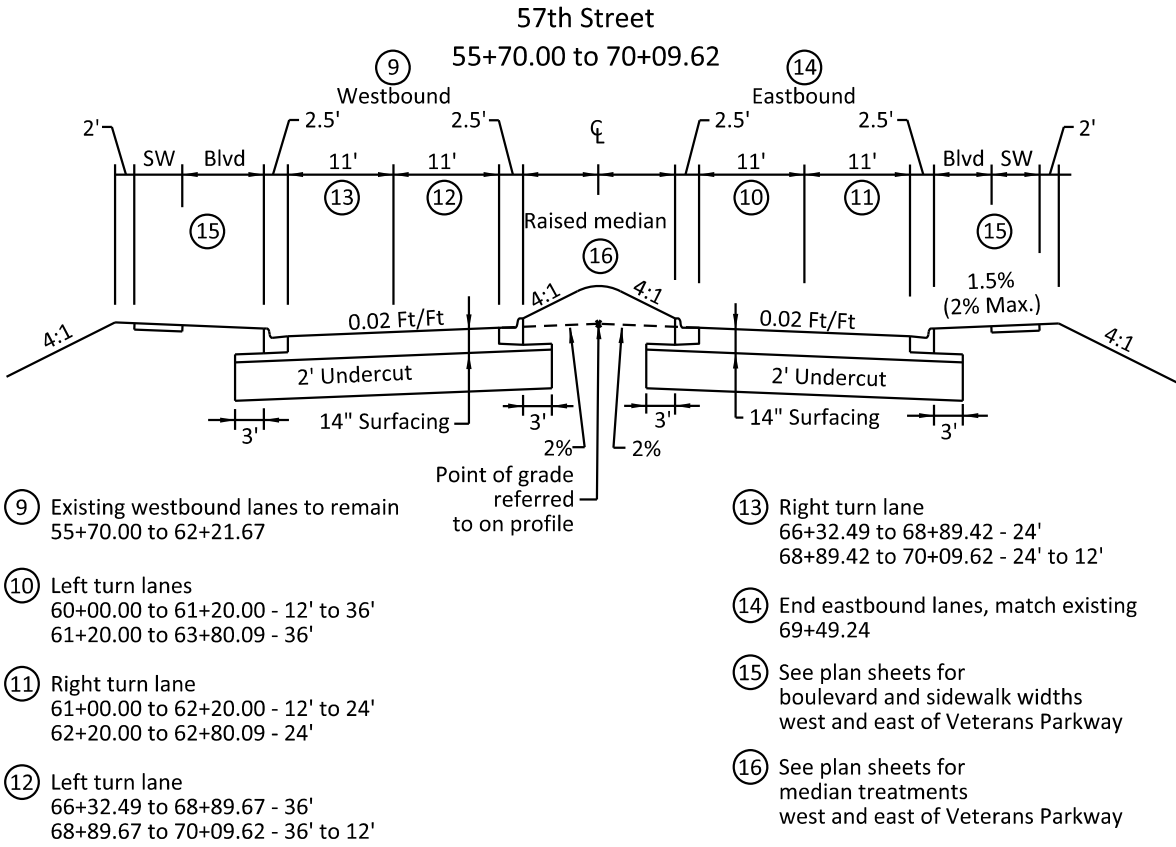
REV DATE:  
INITIAL:



TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                               | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|-----------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                           | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B44                   | B174            |
|                                                           |                                            |                       |                 |
| FILE: ...\\B41-B45 (Typ Sec).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

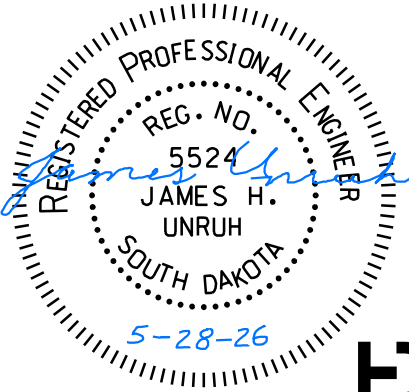
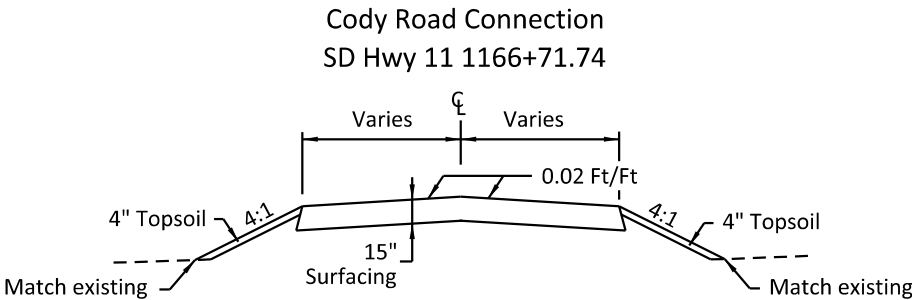
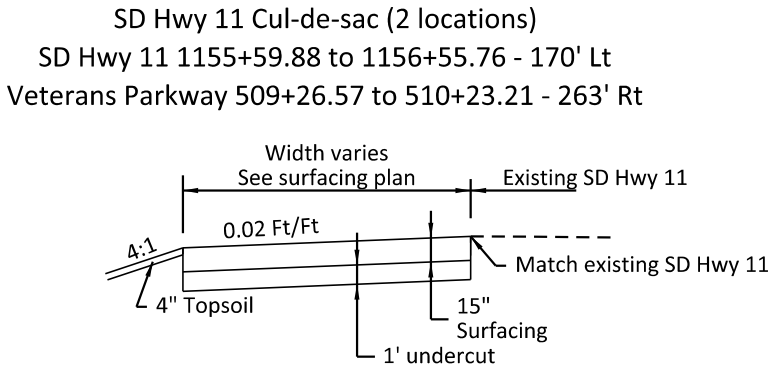
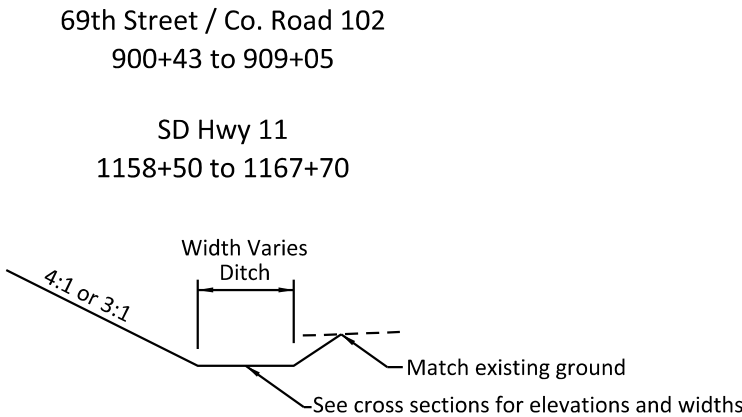
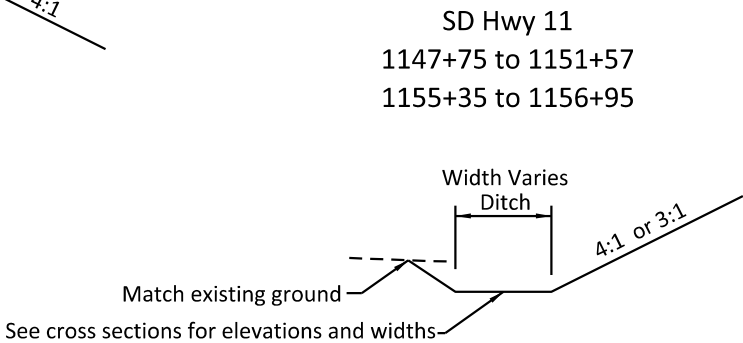
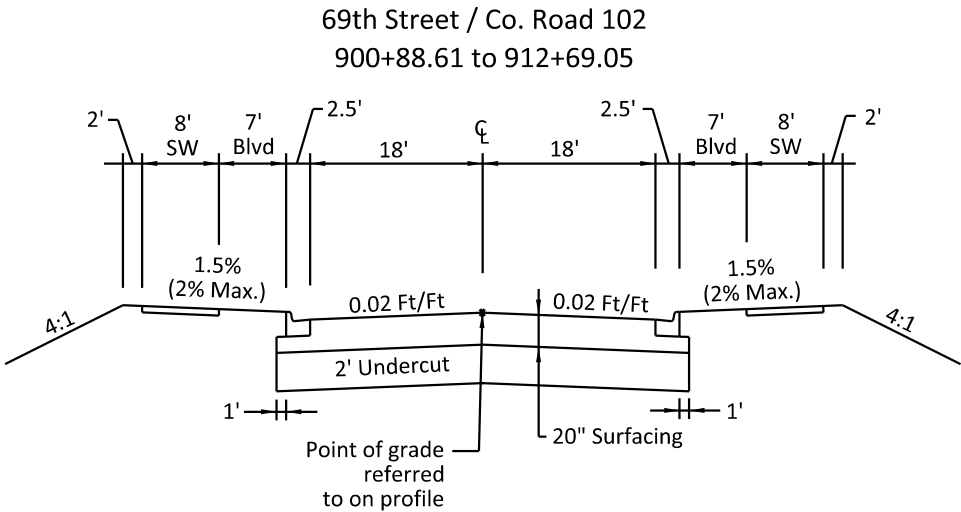




TYPICAL SECTIONS

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                  | PROJECT                                    | SHEET                                | TOTAL<br>SHEETS |
|--------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------|
|                                                              | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B45                                  | B174            |
| FILE: ...\\B41-B45 (Typ Sec).dgn<br>PLOTING DATE: 05-28-2026 |                                            | REV DATE: 04-23-2026<br>INITIAL: JHU |                 |



# HORIZONTAL ALIGNMENT DATA

FOR BIDDING PURPOSES ONLY  
REVISION 11-14-25  
INITIAL: JHU

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) |       |                 |
|                             |                                            | B46   | B174            |

Plotting Date: 11/14/2025

## Veterans Parkway Mainline

| Type | Station   |              |                       | Northing   | Easting    |
|------|-----------|--------------|-----------------------|------------|------------|
| PI   | 428+27.02 |              |                       | 440181.54  | 2940747.61 |
|      |           | TL=293.85    | N 87° 24' 02" E       |            |            |
| PC   | 431+20.86 |              |                       | 440194.86  | 2941041.16 |
| PI   | 452+76.81 | R = 3,400.00 | Delta = 64° 45' 28" L | 440292.64  | 2943194.89 |
| PT   | 469+63.67 |              |                       | 442282.42  | 2944024.90 |
|      |           | TL=2,774.51  | N 22° 38' 34" E       |            |            |
| PC   | 497+38.17 |              |                       | 444843.07  | 2945093.04 |
| PI   | 506+87.90 | R = 3,400.00 | Delta = 31° 12' 48" L | 445719.59  | 2945458.67 |
| PT   | 515+90.41 |              |                       | 446658.71  | 2945317.14 |
|      |           | TL=2,339.12  | N 8° 34' 14" W        |            |            |
| PC   | 539+29.53 |              |                       | 448971.710 | 2944968.54 |

## 69<sup>th</sup> Street / SD Highway 11

| Type | Station    |              |                       | Northing  | Easting    |
|------|------------|--------------|-----------------------|-----------|------------|
| POB  | 1100+00.00 |              |                       | 442825.51 | 2940615.34 |
|      |            | TL=1799.79   | N 87° 34' 43" E       |           |            |
| PC   | 1117+99.79 |              |                       | 442901.55 | 2942413.52 |
| PI   | 1121+76.02 | R = 2,000.00 | Delta = 21° 18' 25" R | 442917.44 | 2942789.41 |
| PT   | 1125+43.55 |              |                       | 442795.67 | 2943145.38 |
|      |            | TL=1,749.22  | S 71° 06' 51" E       |           |            |
| PC   | 1142+92.76 |              |                       | 442229.48 | 2944800.43 |
| PI   | 1155+17.06 | R = 1,800.00 | Delta = 68° 26' 40" R | 441833.20 | 2945958.82 |
| PT   | 1164+43.01 |              |                       | 440610.23 | 2946015.85 |
|      |            | TL=505.09    | S 2° 40' 12" E        |           |            |
| POE  | 1169+48.10 |              |                       | 440105.68 | 2946039.38 |

## 69<sup>th</sup> Street / Co. Road 102 Connection

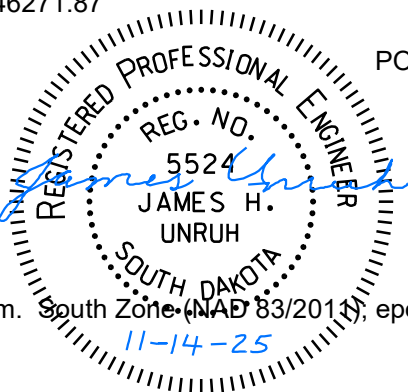
| Type | Station   |            |                       | Northing  | Easting    |
|------|-----------|------------|-----------------------|-----------|------------|
| POB  | 900+00.00 |            |                       | 442055.07 | 2945168.11 |
|      |           | TL=544.01  | N 21° 52' 02" E       |           |            |
| PC   | 905+44.01 |            |                       | 442559.94 | 2945370.73 |
| PI   | 910+52.92 | R = 800.00 | Delta = 64° 55' 27" R | 443032.24 | 2945560.28 |
| PT   | 914+50.52 |            |                       | 443060.72 | 2946068.40 |
|      |           | TL=203.80  | N 86° 47' 29" E       |           |            |
| POE  | 916+54.32 |            |                       | 443072.13 | 2946271.87 |

## 57<sup>th</sup> Street

| Type | Station  |             |                 | Northing  | Easting    |
|------|----------|-------------|-----------------|-----------|------------|
| POB  | 50+00.00 |             |                 | 446932.83 | 2943761.54 |
|      |          | TL=1,962.69 | N 87° 29' 39" E |           |            |
| PI   | 69+62.69 |             |                 | 447018.64 | 2945722.35 |
|      |          | TL=1,037.31 | N 87° 13' 57" E |           |            |
| POE  | 80+00.00 |             |                 | 447068.73 | 2946758.45 |

## Gravel Trail #1

| Type | Station    |            |                       | Northing  | Easting    |
|------|------------|------------|-----------------------|-----------|------------|
| POB  | 1462+00.00 |            |                       | 441676.95 | 2943562.64 |
|      |            | TL=91.35   | N 44° 46' 54" E       |           |            |
| PC   | 1462+91.35 |            |                       | 441741.79 | 2943626.99 |
| PI   | 1463+02.72 | R = 100.00 | Delta = 12° 58' 31" L | 441749.86 | 2943635.00 |
| PT   | 1463+14.00 |            |                       | 441759.52 | 2943640.99 |
|      |            | TL=85.91   | N 31° 48' 23" E       |           |            |
| PI   | 1463+99.91 |            |                       | 441832.53 | 2943686.27 |
|      |            | TL=97.24   | N 29° 14' 12" E       |           |            |
| PI   | 1464+97.15 |            |                       | 441917.39 | 2943733.76 |
|      |            | TL=97.31   | N 25° 11' 38" E       |           |            |
| PI   | 1465+94.46 |            |                       | 442005.44 | 2943775.19 |
|      |            | TL=96.96   | N 24° 58' 23" E       |           |            |
| PI   | 1466+91.42 |            |                       | 442093.34 | 2943816.12 |
|      |            | TL=96.81   | N 27° 25' 38" E       |           |            |
| PI   | 1467+88.23 |            |                       | 442179.27 | 2943860.72 |
|      |            | TL=90.96   | N 30° 26' 44" E       |           |            |
| PC   | 1468+79.19 |            |                       | 442257.68 | 2943906.81 |
| PI   | 1468+85.71 | R = 100.00 | Delta = 7° 27' 54" L  | 442263.30 | 2943910.11 |
| PT   | 1468+92.22 |            |                       | 442269.31 | 2943912.66 |
|      |            | TL=91.64   | N 22° 58' 51" E       |           |            |
| PI   | 1469+83.86 |            |                       | 442353.68 | 2943948.44 |
|      |            | TL=79.64   | N 22° 58' 51" E       |           |            |
| PC   | 1470+63.50 |            |                       | 442427.00 | 2943979.53 |
| PI   | 1470+71.97 | R = 25.00  | Delta = 37° 26' 55" R | 442434.80 | 2943982.84 |
| PT   | 1470+79.84 |            |                       | 442439.00 | 2943990.21 |
|      |            | TL=8.32    | N 60° 25' 45" E       |           |            |
| PI   | 1470+88.16 |            |                       | 442443.09 | 2943997.44 |
|      |            | TL=8.00    | N 60° 25' 45" E       |           |            |
| POE  | 1470+96.16 |            |                       | 442447.03 | 2944004.40 |



The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011), epoch 2010.00, Geoid18, CSF = 0.99984323, U.S. Survey Feet



HORIZONTAL ALIGNMENT DATA

FOR BIDDING PURPOSES ONLY  
PREPARED DATE: 11/14/2025  
INITIAL: JHU

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B47   | B174            |

Plotting Date: 11/14/2025

Gravel Trail #2

| Type | Station    |           |                       | Northing  | Easting    |
|------|------------|-----------|-----------------------|-----------|------------|
| POB  | 1472+00.00 |           |                       | 442546.75 | 2944023.72 |
|      |            | TL=42.21  | N 12° 20' 59" E       |           |            |
| PC   | 1472+42.21 |           |                       | 442587.98 | 2944032.75 |
| PI   | 1472+51.22 | R = 17.97 | Delta = 57° 17' 45" R | 442596.78 | 2944034.68 |
| PT   | 1472+60.18 |           |                       | 442605.09 | 2944038.14 |
|      |            | TL=33.43  | N 22° 38' 34" E       |           |            |
| PI   | 1472+93.60 |           |                       | 442635.94 | 2944051.01 |
|      |            | TL=100.32 | N 27° 13' 00" E       |           |            |
| PI   | 1473+93.92 |           |                       | 442725.16 | 2944096.89 |
|      |            | TL=100.00 | N 22° 38' 34" E       |           |            |
| PI   | 1474+93.92 |           |                       | 442817.45 | 2944135.39 |
|      |            | TL=96.22  | N 19° 12' 33" E       |           |            |
| PC   | 1475+90.14 |           |                       | 442908.31 | 2944167.05 |
| PI   | 1475+94.10 | R = 50.00 | Delta = 9° 03' 48" L  | 442912.05 | 2944168.35 |
| PT   | 1475+98.05 |           |                       | 442915.95 | 2944169.05 |
|      |            | TL=92.04  | N 10° 08' 45" E       |           |            |
| PC   | 1476+90.09 |           |                       | 443006.56 | 2944185.27 |
| PI   | 1476+96.20 | R = 50.00 | Delta = 13° 56' 09" R | 443012.57 | 2944186.34 |
| PT   | 1477+02.26 |           |                       | 443018.15 | 2944188.84 |
|      |            | TL=236.76 | N 24° 04' 54" E       |           |            |
| POE  | 1479+39.02 |           |                       | 443234.31 | 2944285.44 |

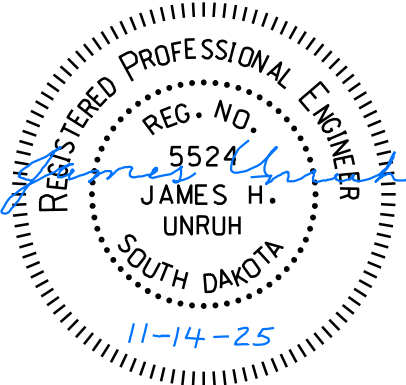
Gravel Trail #3

| Type | Station    |           |                       | Northing  | Easting    |
|------|------------|-----------|-----------------------|-----------|------------|
| POB  | 1218+00.00 |           |                       | 442840.14 | 2942421.63 |
|      |            | TL=869.50 | S 75° 40' 04" E       |           |            |
| PI   | 1226+69.50 |           |                       | 442624.90 | 2943264.06 |
|      |            | TL=267.96 | S 77° 34' 50" E       |           |            |
| PI   | 1229+37.47 |           |                       | 442567.27 | 2943525.76 |
|      |            | TL=241.62 | S 72° 23' 21" E       |           |            |
| PI   | 1231+79.09 |           |                       | 442494.17 | 2943756.06 |
|      |            | TL=216.03 | S 73° 23' 30" E       |           |            |
| PC   | 1233+95.12 |           |                       | 442432.42 | 2943963.07 |
| PI   | 1234+05.77 | R = 25.00 | Delta = 46° 10' 45" L | 442429.38 | 2943973.29 |
| PT   | 1234+15.26 |           |                       | 442434.64 | 2943982.55 |
|      |            | TL=25.12  | N 60° 25' 45" E       |           |            |
| POE  | 1234+40.38 |           |                       | 442447.03 | 2944004.40 |

Shared Use Path at Pedestrian Underpass at 449+00

| Type | Station  |           |                        | Northing  | Easting    |
|------|----------|-----------|------------------------|-----------|------------|
| POB  | 10+00.00 |           |                        | 440638.95 | 2942779.66 |
|      |          | TL=22.00  | S 33° 49' 23" E        |           |            |
| PC   | 10+22.00 |           |                        | 440620.67 | 2942791.90 |
| PI   | 10+45.94 | R = 20.00 | Delta = 100° 14' 51" L | 440600.78 | 2942805.23 |
| PT   | 10+56.99 |           |                        | 440617.43 | 2942822.43 |
|      |          | TL=315.42 | N 45° 55' 45" E        |           |            |
| PC   | 13+72.41 |           |                        | 440836.82 | 2943049.05 |
| PI   | 13+90.33 | R = 20.00 | Delta = 83° 43' 33" L  | 440849.29 | 2943061.93 |
| PT   | 14+01.63 |           |                        | 440863.45 | 2943050.94 |
|      |          | TL=27.34  | N 37° 47' 47" W        |           |            |
| POE  | 14+28.97 |           |                        | 440885.05 | 2943034.19 |

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011); epoch 2010.00, Geoid18, CSF = 0.99984323, U.S. Survey Feet



CONTROL DATA

FOR BIDDING PURPOSES ONLY

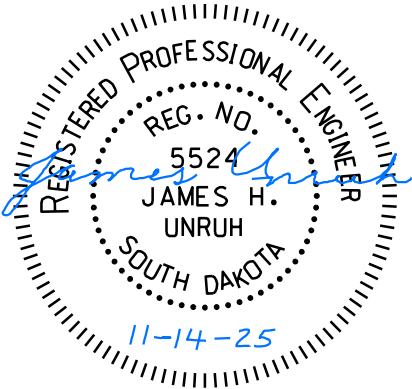
|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B48   | B174            |

Plotting Date: 11/14/2025

REV. DATE: 11-14-2025  
INITIAL: JHU

| HORIZONTAL AND VERTICAL CONTROL POINTS |           |            |                                                                                                                           |           |            |           |
|----------------------------------------|-----------|------------|---------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------|
| POINT                                  | STATION   | OFFSET     | DESCRIPTION                                                                                                               | NORTHING  | EASTING    | ELEVATION |
| CP2                                    | 94+14.92  | 228.45'R   | Rebar w/Alum cap stamped. In east fence line of Tallgrass Ave, 230' south of CR106.                                       | 430838.61 | 2909718.53 | 1499.04   |
| CP3                                    | 148+49.15 | 841.92'L   | Cut X on concrete inlet on west curb line of Louise Ave, 61 feet north of the centerline of W. 95 <sup>th</sup> St.       | 433262.52 | 2914829.09 | 1515.53   |
| CP6                                    | 322+72.12 | 360.54'R   | Cut X on concrete inlet on west curb line of Cliff Ave, 1291' south of the centerline of E. 77 <sup>th</sup> St.          | 438813.07 | 2930433.10 | 1461.22   |
| CP7                                    | 377+50.84 | 283.98'L   | Rebar w/cap, at west right of way line of Southeastern Ave, 1429' south of the centerline of E Bison Trail.               | 440203.65 | 2935669.04 | 1454.46   |
| CP8                                    | 427+90.54 | 297.59'R   | Rebar w/Alum cap., in west fence line of Sycamore Ave, 2945' south of the centerline of E 69 <sup>th</sup> St.            | 439882.46 | 2940726.57 | 1437.38   |
| CP9                                    | 479+23.89 | 353.99'R   | Rebar w/Alum cap., in north fence line of E 69 <sup>th</sup> St, 1180' west of the centerline of SD highway 11.           | 443032.35 | 2944721.28 | 1361.17   |
| M 328                                  | 482+96.60 | 1309.38'R  | NGS Control Monument, in south fence line of E 69 <sup>th</sup> St, 157' west of the centerline of SD highway 11.(OQ0249) | 486393.03 | 2942424.43 | 1356.13   |
| A 448                                  | 72+03.63  | 21141.43'R | NGS Control Monument, in east fence line of I-29 at mile 69.3.(OQ0980)                                                    | 409857.03 | 2908302.83 | 1424.55   |
| B 448                                  | 72+49.11  | 9803.80'R  | NGS Benchmark, in east fence line of I-29 at mile 70.4.(OQ0981)                                                           | 421188.24 | 2907918.44 | 1453.22   |

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011); epoch 2010.00, Geoid18, CSF = 0.99984323, U.S. Survey Feet.  
The elevations shown on the sheet are based on NAVD 88.





# Subsurface Utility Locations

## Quality Level A

FOR BIDDING PURPOSES ONLY

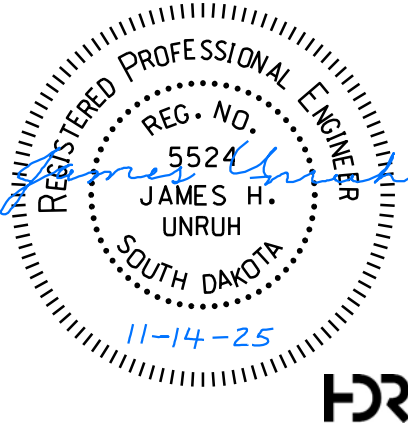
REV. DATE: 11-14-2025  
INITIAL: JHU

| STATE OF SOUTH DAKOTA     | PROJECT                                    | SHEET | TOTAL SHEETS |
|---------------------------|--------------------------------------------|-------|--------------|
|                           | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B49   | B174         |
| Plotting Date: 11/14/2025 |                                            |       |              |

Subsurface utility explorations were done at the following locations.  
The information below states what was located in the specified areas. This table is provided to aid the Contractor during construction and does not substitute or replace the requirements of SD One Call. All information is approximate, and the Contractor will verify all utility locations before construction in those areas as mandated in SDCL 49-7A.

| Test Hole | Owner              | Station    | Offset    | Finding        | Existing Ground Elev. | Utility Depth (Ft.) | Utility Elevation | Northing   | Easting     |
|-----------|--------------------|------------|-----------|----------------|-----------------------|---------------------|-------------------|------------|-------------|
| 1         | MidAmerican        | 1109+82.15 | 56.12' L  | Gas Line       | 1428.76               | 3.20                | 1425.56           | 442923.16  | 2941596.61  |
| 2         | City of Harrisburg | 1109+81.46 | 16.20' L  | San. Forcemain | 1428.49               | 8.75                | 1419.74           | 442883.16  | 2941595.24  |
| 3         | City of Harrisburg | 1110+53.56 | 16.18' L  | San. Forcemain | 1427.72               | 7.80                | 1419.92           | 442886.19  | 2941667.28  |
| 4         | City of Harrisburg | 1117+48.43 | 16.31' L  | San. Forcemain | 1427.48               | 9.65                | 1417.83           | 442915.68  | 2942361.52  |
| 5         | City of Harrisburg | 1119+95.49 | 26.08' L  | San. Forcemain | 1429.60               | 12.70               | 1416.90           | 442926.28  | 2942610.59  |
| 6         | City of Harrisburg | 1123+00.78 | 81.44' L  | San. Forcemain | 1433.06               |                     |                   | 442939.81  | 2942928.31  |
| 7         | Xcel Energy        | 1127+35.14 | 365.16' R | Gas Main       | 1427.75               | 4.00                | 1423.75           | 442388.15  | 2943208.46  |
| 8         | LCRW               | 1129+22.51 | 216.39' L | Water Line     | 1426.49               | 5.05                | 1421.44           | 442877.74  | 2943573.98  |
| 10        | LCRW               | 476+87.12  | CL        | Water Line     | abandoned             |                     |                   | 442950.11  | 2944303.42  |
| 11        | LCRW               | 477+64.07  | CL        | Water Line     | 1424.21               | 5.35                | 1418.86           | 443021.13  | 2944333.04  |
| 13        | Verizon            | 1154+10.33 | 273.88' L | Comm Line      | 1410.68               | 4.00                | 1406.68           | 441731.90  | 2945905.32  |
| 14        | LCRW               | 1154+51.58 | 226.15' L | Water Line     | 1410.70               | 5.85                | 1404.85           | 441666.07  | 2945893.03  |
| 15        | Verizon            | 1159+66.85 | 6.47' L   | Comm Line      |                       |                     |                   | 441079.40  | 2945937.54  |
| 16        | Verizon            | 1160+93.92 | 23.09' R  | Comm Line      | 1407.93               | 4.05                | 1403.88           | 440949.68  | 2945943.55  |
| 17        | Verizon            | 1165+98.85 | 57.40' R  | Comm Line      | 1404.48               | 4.10                | 1400.38           | 440451.88  | 2945965.77  |
| 17A       | Bluepeak           | 1165+98.85 | 66.10' R  | Comm Line      | 1404.21               | 3.60                | 1400.61           | 440450.12  | 2945968.22  |
| 18        | Lewis & Clark      | 1165+94.24 | 31.48' L  | Water Line     | 1407.40               | 11.70               | 1395.70           | 440460.62  | 2946054.33  |
| 19        | MidAmerican        | 61+86.94   | 49.20' R  | Gas Line       | 1430.76               | 3.65                | 1427.11           | 446935.57  | 2944949.49  |
| 20        | MidAmerican        | 63+99.99   | 50.71' R  | Gas Line       | 1429.18               | 3.60                | 1425.58           | 446943.38  | 2945162.41  |
| 51        | Xcel Gas           | 1125+76.46 | 46.18' L  | 16" Gas Line   | 1432.05               | 7.25                | 1424.80           | 442828.700 | 2943191.467 |
| 52        | Xcel Gas           | 1126+15.98 | 52.77' R  | 16" Gas Line   | 1430.59               | 5.45                | 1425.14           | 442722.291 | 2943196.829 |
| 53        | Xcel Gas           | 455+03.58  | 91.21' R  | 16" Gas Line   | 1427.53               | 4.35                | 1423.18           | 441027.784 | 2943256.887 |
| 54        | Xcel Gas           | 456+40.05  | 63.1' L   | 16" Gas Line   | 1427.11               | 4.40                | 1422.71           | 441233.965 | 2943248.646 |

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (NAD 83/2011); epoch 2010.00, Geoid18, CSF = 0.99984323, U.S. Survey Feet.  
The elevations shown on the sheet are based on NAVD 88.



Subsurface Utility Locations

FOR BIDDING PURPOSES ONLY

REVIEW DATE: 08-03-2026

INITIAL: JHU

QUALITY LEVEL A

|                         |                                                       |              |                      |
|-------------------------|-------------------------------------------------------|--------------|----------------------|
| STATE OF SOUTH DAKOTA   | PROJECT<br>NH 0100(107)411<br>P 1440(00) & P 1432(00) | SHEET<br>B50 | TOTAL SHEETS<br>B174 |
| Plotting Date: 8/3/2026 |                                                       |              |                      |

| UTILITY CONTACTS                                                                                                                                                                                                                                              |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POWER                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                  |
| Xcel Energy Electrical Distribution<br>500 W. Russell Street<br>Sioux Falls, SD 57104<br>Attn. Aaron Bickett<br>(O) (605) 339-8315<br><a href="mailto:aaron.m.bickett@xcelenergy.com">aaron.m.bickett@xcelenergy.com</a>                                      | MidAmerican Energy<br>1200 S. Blauvelt<br>Sioux Falls, SD 57105<br>Attn. Ryan Hendriks<br>(O) (605) 373-6061<br>(M) (605) 809-1995<br><a href="mailto:ryan.hendriks@midamerican.com">ryan.hendriks@midamerican.com</a>   | Western Area Power Administration (WAPA)<br>200 4 <sup>th</sup> St. SW Ste. 401<br>Huron, SD 57350<br>Attn. Mike Werdel<br>Attn. Katie Ball (M) (605) 570-1475<br><a href="mailto:Mwerdel@wapa.gov">Mwerdel@wapa.gov</a><br><a href="mailto:KABall@wapa.gov">KABall@wapa.gov</a> |
| Xcel Energy Electrical Transmission<br>414 Nicollet Mall, 5th Floor,<br>Minneapolis, MN 55401<br>Attn. Josh Tomlinson<br><a href="mailto:Joshua.Tomlinson@xcelenergy.com">Joshua.Tomlinson@xcelenergy.com</a>                                                 | Southeastern Electric Cooperative, Inc.<br>Adam Stark<br>Sioux Falls Area Line Superintendent<br>(M) (605) 368-4000<br><a href="mailto:adam@southeastern.coop">adam@southeastern.coop</a>                                | Xcel Energy Natural Gas<br>Jade Brown, Gas Engineer<br>2302 Great Northern Dr Fargo, ND 58102<br>(M) (701) 241-8695<br>(O) (701) 307-0229<br><a href="mailto:Jade.M.Brown@xcelenergy.com">Jade.M.Brown@xcelenergy.com</a>                                                        |
| East River Electric Power Cooperative, Inc.<br>Jordan Brown<br>Engineering Team Lead<br>P.O. Box 227, 211 S. Harth Ave.,<br>Madison, SD 57042<br>(O) (605) 256-8231<br>(M) (605) 291-9302<br><a href="mailto:jbrown@eastriver.coop">jbrown@eastriver.coop</a> | Northwestern Energy<br>3010 W 69 <sup>th</sup> St.<br>Sioux Falls, SD 57108<br>Attn. Landon Schulte<br><a href="mailto:landon.schulte@northwestern.com">landon.schulte@northwestern.com</a>                              |                                                                                                                                                                                                                                                                                  |
| COMMUNICATIONS                                                                                                                                                                                                                                                |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                  |
| MidContinent Communications<br>PO Box 5010<br>Sioux Falls, SD 57117<br>Attn. Dylan Haas<br>(M) (605) 231-0340<br><a href="mailto:Dylan.Haas@Midco.com">Dylan.Haas@Midco.com</a>                                                                               | Lumen (Century Link)<br>125 S. Dakota Ave.<br>Sioux Falls, SD 57104<br>Attn. Andrew Wixon<br>(M) (605) 681-2049<br><a href="mailto:Andrew.Wixon@lumen.com">Andrew.Wixon@lumen.com</a>                                    | SDN Communications<br>2900 W. 10 <sup>th</sup> Street<br>Sioux Falls, SD 57104<br>Attn. Tyler Larson<br>(O) (605) 978-7134<br>(M) (605) 310-8301<br><a href="mailto:tyler.larson@sndcommunications.com">tyler.larson@sndcommunications.com</a>                                   |
| Alliance Communications<br>1400 E Aspen Blvd<br>Brandon, SD 57005<br>Attn. Jeff Hove<br>(M) (605) 594-8229<br><a href="mailto:jeffh@alliance.coop">jeffh@alliance.coop</a>                                                                                    | Vast Broadband/Bluepeak<br>5009 S Western Ave<br>Sioux Falls, SD 57106<br>Attn. Jordan Huber<br>(O) (605) 498-4922<br>(M) (605) 366-1360<br><a href="mailto:Jordan.huber@mybluepeak.com">Jordan.huber@mybluepeak.com</a> |                                                                                                                                                                                                                                                                                  |

| UTILITY CONTACTS                                                                                                                                                                                                                                                                           |                                                                                                                                                                   |                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| PUBLIC                                                                                                                                                                                                                                                                                     |                                                                                                                                                                   |                                                                                                                                                       |
| <u>LIGHT DEPT</u><br>Jerry Jongeling<br>(605) 373-6979<br><a href="mailto:jjongeling@siouxfalls.org">jjongeling@siouxfalls.org</a>                                                                                                                                                         | <u>SANITARY SEWER</u><br>Chad Comes<br>(605) 367-8601<br><a href="mailto:ccomes@siouxfalls.org">ccomes@siouxfalls.org</a>                                         | <u>STORM SEWER</u><br>Aaron Fagerness<br>(605) 367-8601<br><a href="mailto:afagerness@siouxfalls.org">afagerness@siouxfalls.org</a>                   |
| <u>TRAFFIC SIGNALS / SIGNING</u><br>Attn: Heath Hofftiezer<br>(605) 367-8601<br><a href="mailto:hhofftiezer@siouxfalls.org">hhofftiezer@siouxfalls.org</a>                                                                                                                                 | <u>SIoux FALLS CITY WATER</u><br>Nick Borns<br>(605) 367-8601<br><a href="mailto:nborns@siouxfalls.org">nborns@siouxfalls.org</a>                                 | <u>CITY OF HARRISBURG</u><br>Dustin Preheim<br>(605) 351-9879<br><a href="mailto:Dustin.preheim@harrisburgsd.gov">Dustin.preheim@harrisburgsd.gov</a> |
| <u>SDDOT UTILITY COORDINATOR</u><br>Bronson Blow<br>SDDOT – Road Design<br><a href="mailto:Bronson.Blow@state.sd.us">Bronson.Blow@state.sd.us</a>                                                                                                                                          |                                                                                                                                                                   |                                                                                                                                                       |
| WATER                                                                                                                                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                       |
| Lewis & Clark Regional Water System<br>1800 Monty Street<br>Tea, SD 57064<br>Justin Walsh – L&C – 605-310-8780<br>Water Treatment Plant – 605-624-8700<br>Main office – 1-605-368-2400<br><a href="mailto:jwalsh@lcrws.org">jwalsh@lcrws.org</a><br>IN CASE OF EMERGENCY CALL 866-572-8688 | Lincoln County Rural Water<br>Robin Dykstra (Manager)<br>(605) 767-2966<br><a href="mailto:rdykstra@lincolncoruralwater.com">rdykstra@lincolncoruralwater.com</a> |                                                                                                                                                       |





LEGEND

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                        | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|--------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                    | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B51                   | B174            |
| FILE: ...\\Section B\\B51 (Legend).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

|                                         |  |
|-----------------------------------------|--|
| Anchor                                  |  |
| Antenna                                 |  |
| Approach                                |  |
| Assumed Corner                          |  |
| Azimuth Marker                          |  |
| BBQ Grill/ Fireplace                    |  |
| Bearing Tree                            |  |
| Bench Mark                              |  |
| Box Culvert                             |  |
| Bridge                                  |  |
| Brush/Hedge                             |  |
| Buildings                               |  |
| Bulk Tank                               |  |
| Cattle Guard                            |  |
| Cemetery                                |  |
| Centerline                              |  |
| Cistern                                 |  |
| Clothes Line                            |  |
| Concrete Symbol                         |  |
| Control Point                           |  |
| Creek Edge                              |  |
| Curb/Gutter                             |  |
| Curb                                    |  |
| Dam Grade/Dike/Levee                    |  |
| Deck Edge                               |  |
| Ditch Block                             |  |
| Doorway Threshold                       |  |
| Drainage Profile                        |  |
| Drop Inlet                              |  |
| Edge Of Asphalt                         |  |
| Edge Of Concrete                        |  |
| Edge Of Gravel                          |  |
| Edge Of Other                           |  |
| Edge Of Shoulder                        |  |
| Electric Transformer/Power Junction Box |  |
| Fence Barbwire                          |  |
| Fence Chainlink                         |  |
| Fence Electric                          |  |
| Fence Miscellaneous                     |  |
| Fence Rock                              |  |
| Fence Snow                              |  |
| Fence Wood                              |  |
| Fence Woven                             |  |
| Fire Hydrant                            |  |
| Flag Pole                               |  |
| Flower Bed                              |  |
| Gas Valve Or Meter                      |  |
| Gas Pump Island                         |  |
| Grain Bin                               |  |
| Guardrail                               |  |
| Gutter                                  |  |
| Guy Pole                                |  |
| Haystack                                |  |
| Highway ROW Marker                      |  |
| Interstate Close Gate                   |  |
| Iron Pin                                |  |
| Irrigation Ditch                        |  |
| Lake Edge                               |  |
| Lawn Sprinkler                          |  |

|                               |  |
|-------------------------------|--|
| Mailbox                       |  |
| Manhole Electric              |  |
| Manhole Gas                   |  |
| Manhole Miscellaneous         |  |
| Manhole Sanitary Sewer        |  |
| Manhole Storm Sewer           |  |
| Manhole Telephone             |  |
| Manhole Water                 |  |
| Merry-Go-Round                |  |
| Microwave Radio Tower         |  |
| Miscellaneous Line            |  |
| Miscellaneous Property Corner |  |
| Miscellaneous Post            |  |
| Overhang Or Encroachment      |  |
| Overhead Utility Line         |  |
| Parking Meter                 |  |
| Pedestrian Push Button Pole   |  |
| Pipe With End Section         |  |
| Pipe With Headwall            |  |
| Pipe Without End Section      |  |
| Playground Slide              |  |
| Playground Swing              |  |
| Power And Light Pole          |  |
| Power And Telephone Pole      |  |
| Power Meter                   |  |
| Power Pole                    |  |
| Power Pole And Transformer    |  |
| Power Tower Structure         |  |
| Propane Tank                  |  |
| Property Pipe                 |  |
| Property Pipe With Cap        |  |
| Property Stone                |  |
| Public Telephone              |  |
| Railroad Crossing Signal      |  |
| Railroad Milepost Marker      |  |
| Railroad Profile              |  |
| Railroad ROW Marker           |  |
| Railroad Signs                |  |
| Railroad Switch               |  |
| Railroad Track                |  |
| Railroad Trestle              |  |
| Rebar                         |  |
| Rebar With Cap                |  |
| Reference Mark                |  |
| 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                 |  |

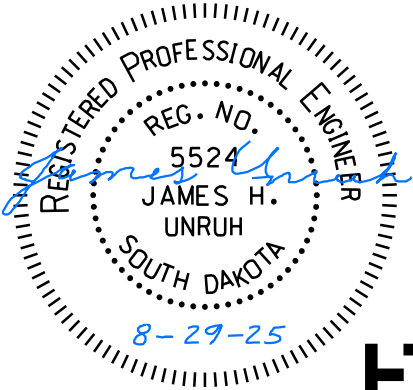
|                                          |  |
|------------------------------------------|--|
| Subsurface Utility Exploration Test Hole |  |
| Telephone Fiber Optics                   |  |
| Telephone Junction Box                   |  |
| Telephone Pole                           |  |
| Television Cable Jct Box                 |  |
| Television Tower                         |  |
| Test Wells/Bore Holes                    |  |
| Traffic Sign Double Face                 |  |
| Traffic Sign One Post                    |  |
| Traffic Sign Two Post                    |  |
| Traffic Signal                           |  |
| Trash Barrel                             |  |
| Tree Belt                                |  |
| Tree Coniferous                          |  |
| Tree Deciduous                           |  |
| Tree Stumps                              |  |
| Triangulation Station                    |  |
| Underground Electric Line                |  |
| Underground Gas Line                     |  |
| Underground High Pressure Gas Line       |  |
| Underground Sanitary Sewer               |  |
| Underground Storm Sewer                  |  |
| Underground Tank                         |  |
| Underground Telephone Line               |  |
| Underground Television Cable             |  |
| Underground Water Line                   |  |
| 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<br>(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<br>Pedestrian Push Button Pole<br>and 30" x 48" Clear Space<br>with 1.5% slope |  |
|---------------------------------------------------------------------------------------------------|--|



# VETERANS PARKWAY

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B52   | B174            |

FILE: ...\\Section B\\B52-B53 (420+00).dgn  
PLOTING DATE: 08-29-2025  
REV DATE:  
INITIAL:

430+00, 0' L to 443+19, 230' R  
Take out 1,374' Fence

430+89.00 to 432+77.00 - 14.33' R  
Install 18"-186' RC Pipe

432+83, 124' L to 4' R  
Take out 128' Fence

432+77.00 to 434+96.00 - 14.33' R  
Install 18"-218' RC Pipe

430+89.00 to 432+77.00 - 65.67' L  
Install 24" -182' RC Pipe

434+96.00 to 437+00.00 - 14.33' R  
Install 18" -202' RC Pipe

432+77.00 - 65.67' L to 434+05.00 - 53.67' L  
Install 24" -124' RC Pipe

434+05.00 to 434+96.00 - 53.67' L  
Install 24" -88' RC Pipe

434+96.00 - 53.67' L to 96' L  
Install 24" -36' RC Pipe  
and 1 Flared End

430+17 to 432+86, 120' L  
Install 269' Type 2 Barbed wire fence  
Connect to Fence Installed in 01V7

SEC. 18-T100N-R49W

SEC. 17-T100N-R49W

NW 1/4

L & L Farms Ltd Partnership  
Parcel 42-2

SE 1/4 NE 1/4

Everett T. Hayes FLP  
Parcel 40

East River Electric Power Cooperative, Inc.  
Parcel 42-1

425+00

430+00

435+00

420+00

1/4 Line

N87°02'12"E

N87°24'02"E

Proposed Veterans Parkway

1/4 Line

Everett T. Hayes FLP  
Parcel 40

NE 1/4 SE 1/4

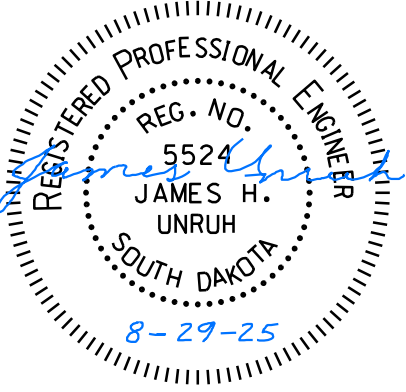
BEGIN NH 0100(107)411  
Veterans Parkway  
Station 430+00.00

Avera McKennan  
Parcel 44

Install 2'x 3' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
430+89.00 - 14.33' R  
432+77.00 - 14.33' R  
434+96.00 - 14.33' R

Install 3'x 4' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
432+77.00 - 65.67' L  
434+05.00 - 53.67' L  
434+96.00 - 53.67' L

Install 4'x 4' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
430+89.00 - 65.67' L



Parcel 42-1  
430+00 to 432+90.14 L  
Temporary Easement containing  
0.1 ac. (4817 sq ft), more or less

Parcel 44  
430+00 to 441+15.14 R  
Temporary Easement containing  
0.4 ac. (17608 sq ft), more or less

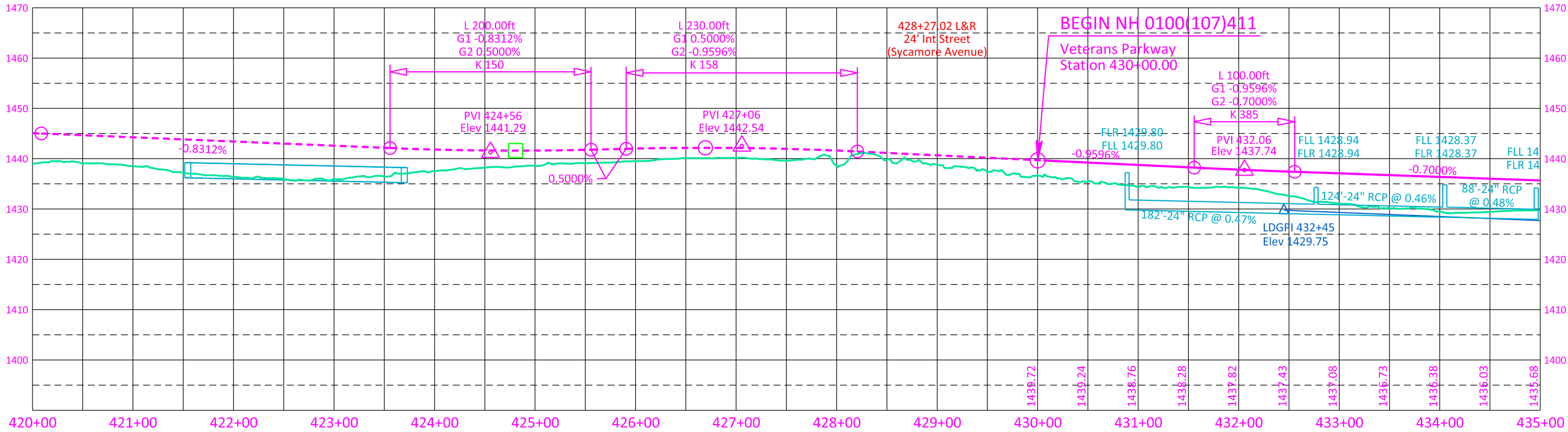




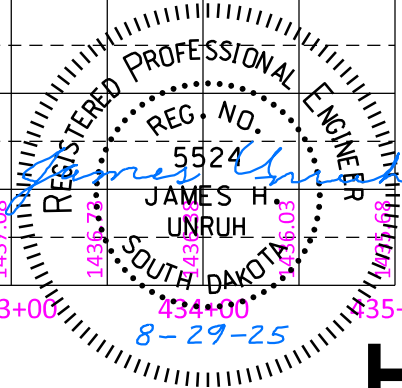
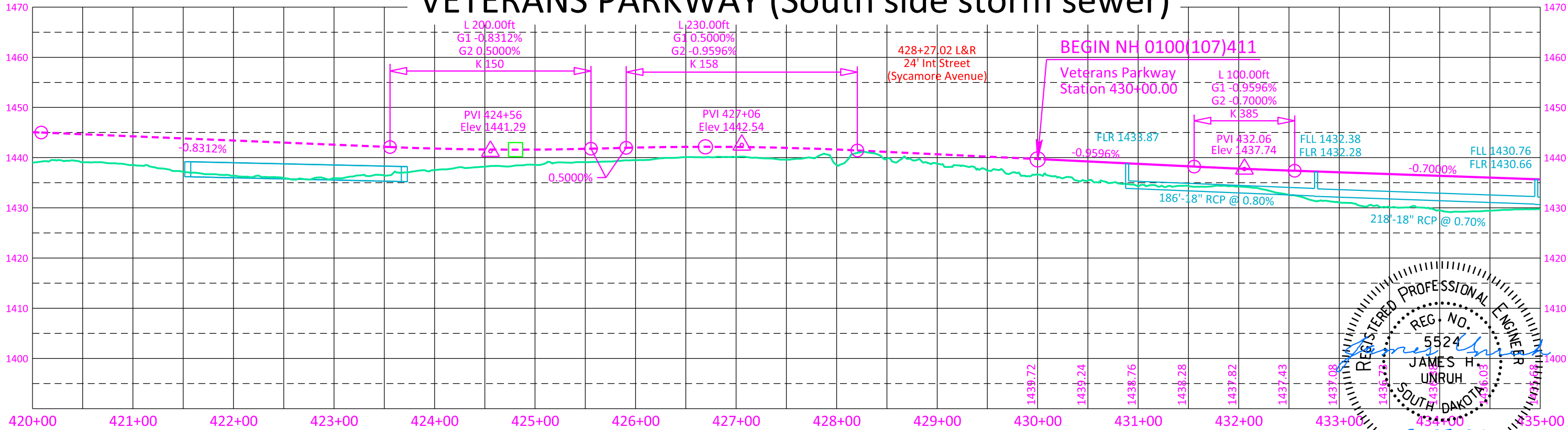
# VETERANS PARKWAY (North side storm sewer)

FOR BIDDING PURPOSES ONLY

|                                            |                                            |                       |                 |
|--------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B53                   | B174            |
| FILE: ...\\Section B\\B52-B53 (420+00).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOT DATE: 08-29-2025                      |                                            |                       |                 |



# VETERANS PARKWAY (South side storm sewer)



# VETERANS PARKWAY

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B54                   | B174            |
| FILE: ...\\Section B\\B54-B55 (435+00).dgn<br>PLOTING DATE: 08-29-2025 |                                            | REV DATE:<br>INITIAL: |                 |

SEC. 17-T100N-R49W

449+00.00  
Install 12'x10'x238' Box Culvert  
(See Section E)

L & L Farms Ltd Partnership  
Parcel 42-2

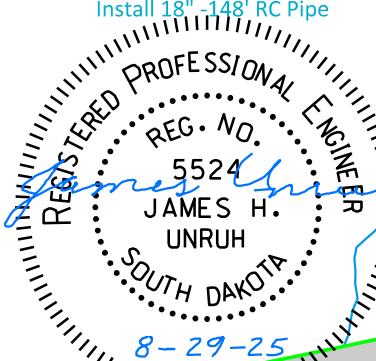
Install Class B Riprap  
and Type B Drainage Fabric  
at the following locations:  
441+70 - 104' L  
(20'x12'x2.5')  
(30.8 Ton Riprap)  
(48 SqYd Drainage Fabric)

441+69 - 122' R  
(13'x12'x2.5')  
(22.2 Ton Riprap)  
(37 SqYd Drainage Fabric)

Install 4'x 4' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
441+20.00 - 53.67' L  
441+20.00 - 14.33' R

NW 1/4

L & L Farms Ltd Partnership  
Parcel 42-2



City of Sioux Falls  
Parcel 46

East River

1/4 Line

440+26 - 122.5' R to 440+45.7 - 105.4' R  
Install 24" RCP Flared End  
Install 24" -16' RC Pipe  
Install 24" RCP Short Bends (6)

Avera McKennan  
Parcel 44

440+45.7 - 105.4' R to 441+13.6 - 107.3' R  
Install 24" -70' RC Pipe

441+13.6 - 107.3' R to 441+32.3 - 125.4' R  
Install 24" RCP Flared End  
Install 24" -16' RC Pipe  
Install 24" RCP Short Bends (6)

Parcel 42-2  
432+90.14 to 442+13.65 L  
Temporary Easement containing  
0.3 ac. (12048 sq ft), more or less

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
441+70.00 - 53.67' L (3 Grates, 4' Wide)  
441+70.00 - 14.33' R (3 Grates, 4' Wide)

Parcel 42-2  
442+13.65 to 449+37 L  
Temporary Easement containing  
0.2 ac. (9518 sq ft), more or less

437+00.00 to 438+35.00 - 14.33' R  
Install 24" -132' RC Pipe

442+20.00 to 443+58.00 - 14.33' R  
Install 18" -136' RC Pipe

438+35.00 to 439+70.00 - 14.33' R  
Install 24" -132' RC Pipe

443+58.00 to 445+10.00 - 14.33' R  
Install 18" -150' RC Pipe

439+70.00 to 441+20.00 - 14.33' R  
Install 24" -146' RC Pipe

448+16.49  
Install 5 - 10'x5'x273' - Box Culvert  
8° 20' 38" RHF Skew  
(D.A. = 483 Acres)  
(See Section E)

441+20.00 to 441+70.00 - 14.33' R  
Install 30"-44' RC Pipe

441+70.00 - 14.33' R to 53.67' R  
Install 36" -36' RC Pipe

441+70.00 - 53.67' R to 117' R  
Install 36"-54' RC Pipe  
and 1 Flared End

441+70.00 to 442+20.00 - 14.33' R  
Install 18" -44' RC Pipe





# VETERANS PARKWAY (North side storm sewer)

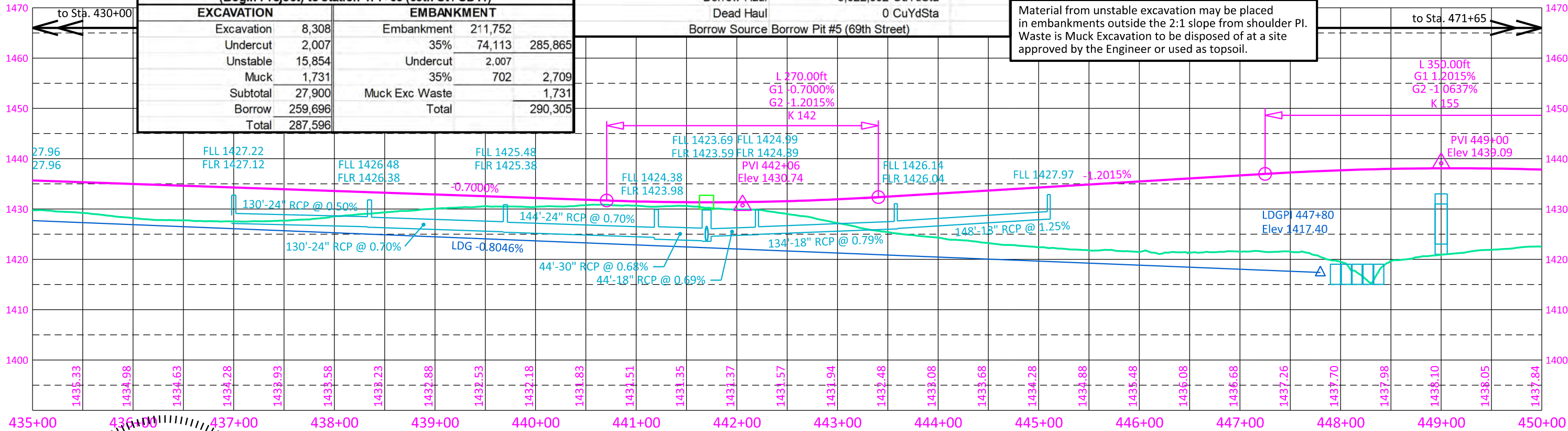
FOR BIDDING PURPOSES ONLY

|                                            |                                            |                      |                 |
|--------------------------------------------|--------------------------------------------|----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET                | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B55                  | B174            |
| FILE: ...\\Section B\\B54-B55 (435+00).dgn |                                            | REV DATE: 07-21-2026 |                 |
| PLOT DATE: 07-21-2026                      |                                            | INITIAL: JHU         |                 |

| Earthwork Balance - Veterans Parkway Station 430+00<br>(Begin Project) to station 471+65 (69th St / SD11) |         |                |         |         |
|-----------------------------------------------------------------------------------------------------------|---------|----------------|---------|---------|
| EXCAVATION                                                                                                |         | EMBANKMENT     |         |         |
| Excavation                                                                                                | 8,308   | Embankment     | 211,752 |         |
| Undercut                                                                                                  | 2,007   | 35%            | 74,113  | 285,865 |
| Unstable                                                                                                  | 15,854  | Undercut       | 2,007   |         |
| Muck                                                                                                      | 1,731   | 35%            | 702     | 2,709   |
| Subtotal                                                                                                  | 27,900  | Muck Exc Waste |         | 1,731   |
| Borrow                                                                                                    | 259,696 | Total          |         | 290,305 |
| Total                                                                                                     | 287,596 |                |         |         |

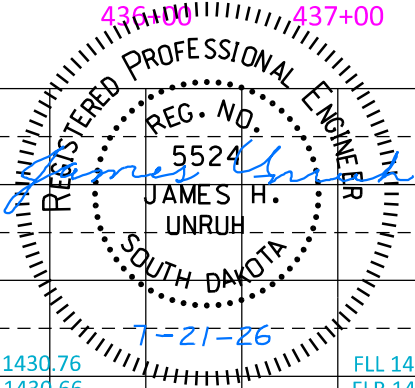
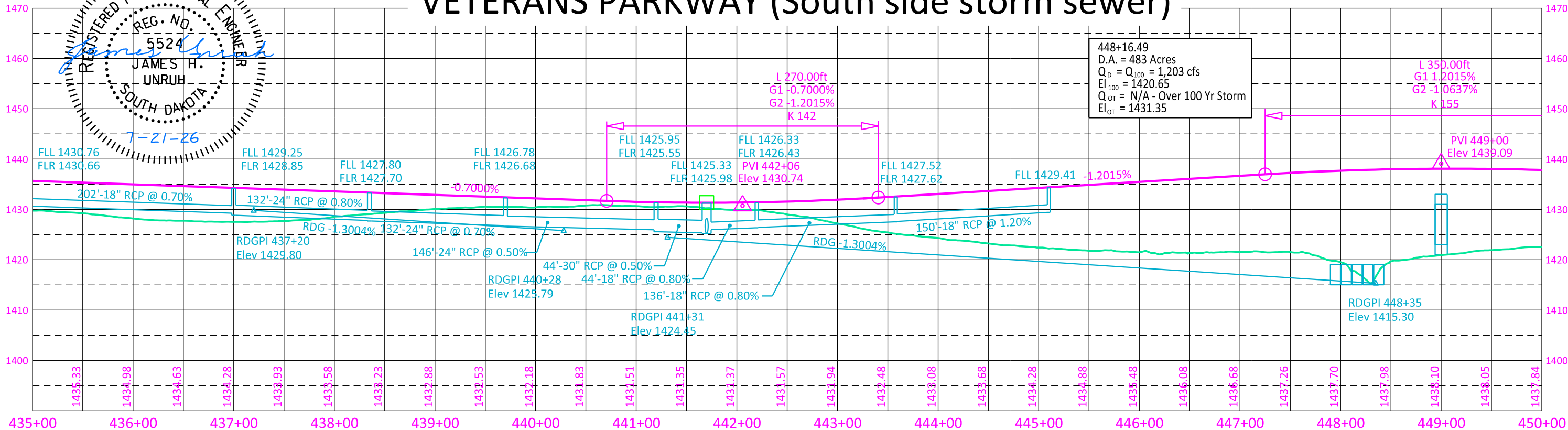
|                                           |                   |
|-------------------------------------------|-------------------|
| Haul                                      | 0 CuYdSta         |
| Borrow Haul                               | 5,622,592 CuYdSta |
| Dead Haul                                 | 0 CuYdSta         |
| Borrow Source Borrow Pit #5 (69th Street) |                   |

Material from unstable excavation may be placed in embankments outside the 2:1 slope from shoulder PI. Waste is Muck Excavation to be disposed of at a site approved by the Engineer or used as topsoil.



# VETERANS PARKWAY (South side storm sewer)

448+16.49  
D.A. = 483 Acres  
Q<sub>D</sub> = Q<sub>100</sub> = 1,203 cfs  
E<sub>I100</sub> = 1420.65  
Q<sub>OT</sub> = N/A - Over 100 Yr Storm  
E<sub>IOT</sub> = 1431.35



461+96, 85' L to 460+81, 115' R  
Take out 200' Fence

453+10.00 to 454+85.00 - 53.67' L  
Install 18" -170' RC Pipe

454+85.00 to 456+59.00 - 53.67' L  
Install 18" -170' RC Pipe

456+59.00 to 458+32.00 - 53.67' L  
Install 18" -168' RC Pipe

458+32.00 to 460+06.00 - 53.67' L  
Install 24"-168 RC Pipe

460+06.00 to 461+80.00 - 53.67' L  
Install 24"-168' RC Pipe

461+80.00 to 462+30.00 - 53.67' L  
Install 24" -44' RC Pipe

462+30.00 - 53.67' L to 14.33' L  
Install 36" -38' RC Pipe

462+30.00 - 14.33' L to 14.33' R  
Install 36" -26' RC Pipe

462+30.00 to 462+80.00 - 53.67' L  
Install 24" -42' RC Pipe

462+80.00 to 464+09.00 - 53.67' L  
Install 18" -124' RC Pipe

464+09.00 to 465+23.00 - 53.67' L  
Install 18" -110' RC Pipe

Install 2'x 3' Type B Drop Inlets  
with 6" Concrete Collar and  
Type B Frame & Grate  
at the Following Locations:  
453+10.00 - 53.67' L  
453+10.00 - 14.33' R  
454+85.00 - 53.67' L  
454+85.00 - 14.33' R  
456+59.00 - 53.67' L  
456+59.00 - 14.33' R  
464+09.00 - 53.67' L  
464+09.00 - 14.33' R  
465+23.00 - 53.67' L  
465+23.00 - 14.33' R

PI 452+76.81  
N 440292.642  
E 2943194.887  
Del 64°45'28" L  
Dc 1°41'07"  
T 2155.95'  
L 3842.80'  
R 3400.00'

NW 1/4

L & L Farms Ltd Partnership  
Parcel 42-2

L & L Farms Ltd Partnership  
Parcel 42-2

South Dakota Dept.  
of Transportation  
Parcel 43

South Dakota Dept.  
of Transportation  
Parcel 43

City of Sioux Falls  
Parcel 46

City of Sioux Falls  
Parcel 46

TRACT 1

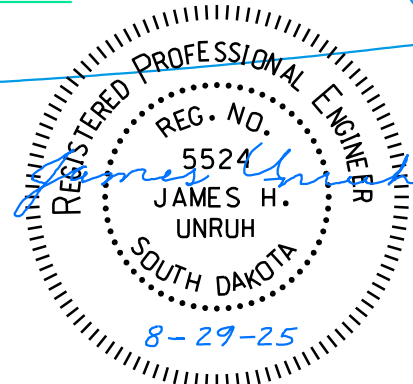
W 1/2 NE 1/4

### WARNING HIGH-PRESSURE PIPELINE

Xcel Energy will need to provide an inspector  
for any work within their easement. Notify  
the Xcel Energy Natural Gas representative  
listed in the utility contacts at least 48 hours  
before work within the easement. See also  
the Section B Utilities note.

Parcel 42-2  
449+37 to 458+11.57 L  
Temporary Easement containing  
0.3 ac. (11796 sq ft), more or less

Parcel 42-2  
458+11.57 to 461+99.85 L  
Temporary Easement containing  
0.1 ac. (847 sq ft), more or less



# VETERANS PARKWAY

SEC. 17-T100N-R49W

FOR BIDDING PURPOSES ONLY

STATE OF  
SOUTH  
DAKOTA

PROJECT  
NH 0100(107)411  
P 1440(00) & P 1432(00)

SHEET  
B56

TOTAL  
SHEETS  
B174

FILE: ...\\Section B\\B56-B57 (450+00).dgn  
PLOTING DATE: 08-29-2025

REV DATE:  
INITIAL:

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
462+30.00 - 53.67' L (3 Grates, 4' Wide)  
462+30.00 - 14.33' R (3 Grates, 4' Wide)

Install 3'x 4' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:

458+32.00 - 53.67' L  
458+32.00 - 14.33' R  
460+06.00 - 53.67' L  
460+06.00 - 14.33' R  
461+80.00 - 53.67' L  
461+80.00 - 14.33' R  
462+30.00 - 14.33' L  
462+30.00 - 53.67' R  
462+80.00 - 53.67' L  
462+80.00 - 14.33' R

1462+00

1465+00

465+00

460+00

455+00

450+00

12+00

13+00

14+00

453+00.00 to 454+85.00 - 14.33' R  
Install 18" -174' RC Pipe

454+85.00 to 456+59.00 - 14.33' R  
Install 18" -172' RC Pipe

456+59.00 to 458+32.00 - 14.33' R  
Install 18" -170' RC Pipe

458+32.00 to 460+06.00 - 14.33' R  
Install 24"-172 RC Pipe

460+06.00 to 461+80.00 - 14.33' R  
Install 24"-172' RC Pipe

461+80.00 to 462+30.00 - 14.33' R  
Install 24"-46' RC Pipe

462+30.00 - 14.33' R to 53.67' R  
Install 36" -38' RC Pipe

462+30.00 - 53.67' R to 153' R  
Install 36"-90' RC Pipe  
and 1 Flared end

462+30.00 to 462+80.00 - 14.33' R  
Install 24" -44' RC Pipe

462+80.00 to 464+09.00 - 14.33' R  
Install 18" -126' RC Pipe

464+09.00 to 465+23.00 - 14.33' R  
Install 18" -112' RC Pipe

Install Class B Riprap  
and Type B Drainage Fabric  
at the following location:  
462+30 - 159' R  
(16'x12'x2.5')  
(27.4 Ton Riprap)  
(44 SqYd Drainage Fabric)

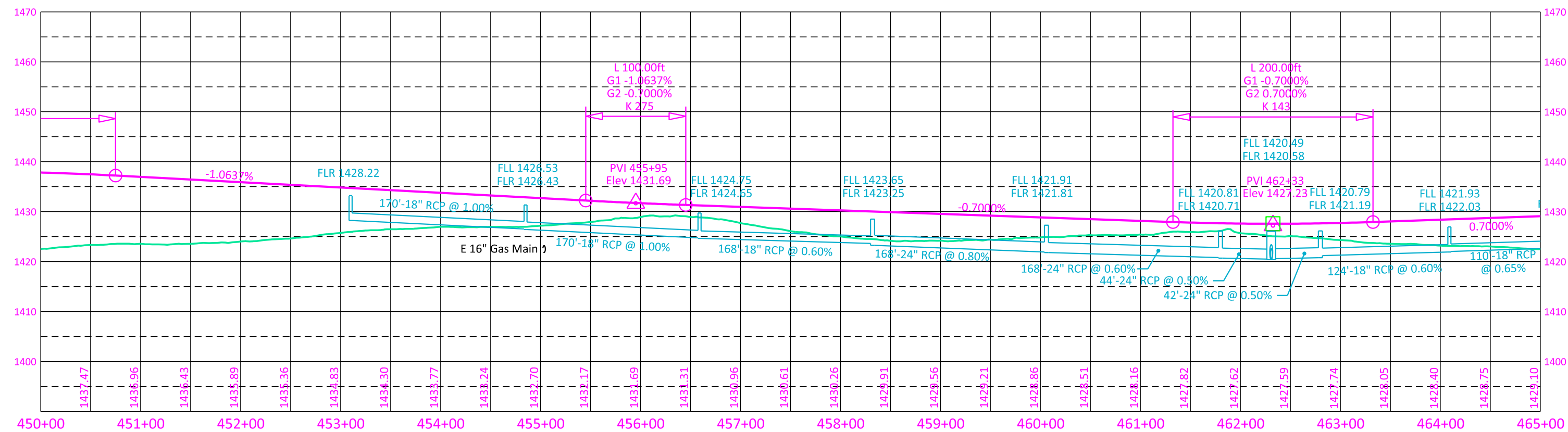




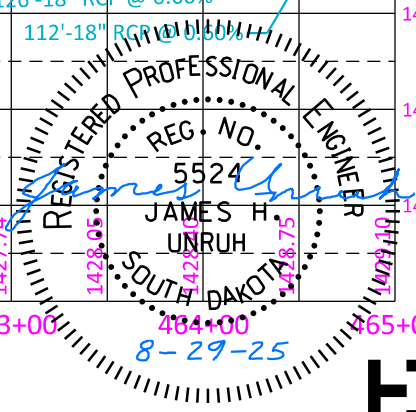
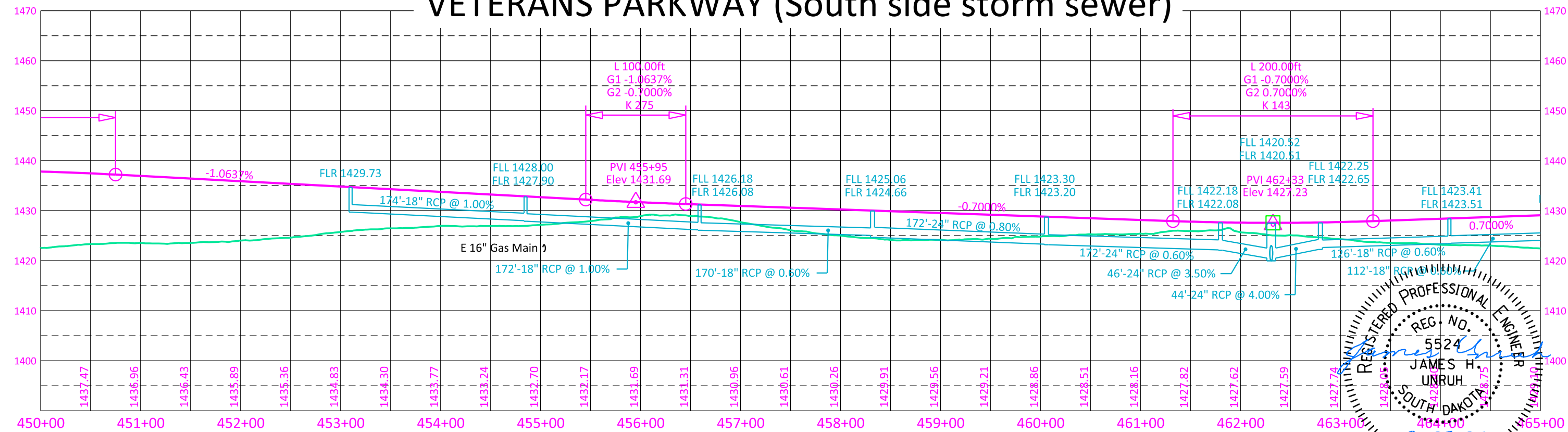
# VETERANS PARKWAY (North side storm sewer)

FOR BIDDING PURPOSES ONLY

|                                            |                                            |                       |                 |
|--------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B57                   | B174            |
| FILE: ...\\Section B\\B56-B57 (450+00).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOTING DATE: 08-29-2025                   |                                            |                       |                 |



# VETERANS PARKWAY (South side storm sewer)



476+76, 26' R to 476+95, 72' R  
Take out 50' Fence

466+00 - 139' L to 178' R  
Install 36" -302' RC Pipe  
and 2 Flared Ends  
(D.A. = 40.4 Acres)

466+37.00 to 466+85.34 - 53.67' L  
Install 18" -46' RC Pipe

466+85.34 - 53.67' L - 138' L  
Install 24" -78' RC Pipe  
and 1 Flared End

466+85.34 - 53.67' L to 466+85.52 - 7.04' L  
Install 24" -46' RC Pipe

466+85.34 to 468+15.00 - 53.67' L  
Install 18"-126' RC Pipe

466+37.20 - 2.29' R to 466+85.52 - 7.04' L  
Install 18"-46' RC Pipe

466+85.52 - 7.04' L to 468+15.00 - 9.67' L  
Install 18" -126' RC Pipe

Install 2'x 3' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:

466+37.00 - 53.67' L  
466+37.20 - 2.29' R  
466+85.34 - 53.67' L  
468+15.00 - 53.67' L  
468+15.00 - 9.67' L  
476+13.00 - 53.67' L  
476+13.00 - 53.67' R  
477+73.50 - 53.67' L  
477+73.50 - 53.67' R  
479+34.50 - 53.67' L  
479+34.50 - 53.67' R

# VETERANS PARKWAY

FOR BIDDING PURPOSES ONLY

Install 5'x10'x10' GDOT Type B Frame & Grate  
Concrete Collar and Type B Frame & Grate  
at the Following Location:  
466+85.525 - 7.04' L

STATE OF  
SOUTH  
DAKOTA

PROJECT  
NH 0100(107)411  
P 1440(00) & P 1432(00)

SHEET  
B58

TOTAL  
SHEETS  
B174

FILE: ...\\Section B\\B58-B59 (465+00).dgn  
PLOTING DATE: 10-01-2025

REV DATE:  
INITIAL:

SEC. 17-T100N-R49W

SEC. 8 - T100N - R49W

Clearing and Building Removal  
473+20 to 477+70 L/R (within work limits  
of Veterans Parkway and Borrow Pit #5  
Ponds D and E)  
The City will remove trees and buildings.  
The Contractor will remove tree stumps.  
See notes.

480+04.93  
Install 4 - 10'x5'x207'-4 7/8" Box Culvert  
21° 40' 47" LHF Skew  
(D.A. = 722 Acres)  
(See Section E)

City of Sioux Falls  
Parcel 49-1

South Dakota Dept.  
of Transportation  
Parcel 43

SE 1/4

South Dakota Dept.  
of Transportation  
Parcel 43

Borrow Pit #5  
Pond B

Borrow Pit #5  
Pond D

Proposed Veterans Parkway 470+00

See Borrow Pit #5  
Drainage Detail Sheet

Borrow Pit #5  
Pond C

South Dakota Dept.  
of Transportation  
Parcel 43

South Dakota Dept.  
of Transportation  
Parcel 43

Borrow Pit #5  
Pond E

Ronning Enterprises, Inc.  
Parcel 49-1X

Install Class B Riprap  
and Type B Drainage Fabric  
at the following locations:  
466+00 - 144' L  
(14'x12'x2.5')  
(24.0 Ton Riprap)  
(40 SqYd Drainage Fabric)

466+00 - 184' R  
(16'x12'x2.5')  
(27.4 Ton Riprap)  
(44 SqYd Drainage Fabric)

466+85 - 143' L  
(14'x12'x2.5')  
(24.0 Ton Riprap)  
(40 SqYd Drainage Fabric)

476+13.00 - 65.67' L to 477+73.50 - 62.33' L  
Install 18" -158' RC Pipe

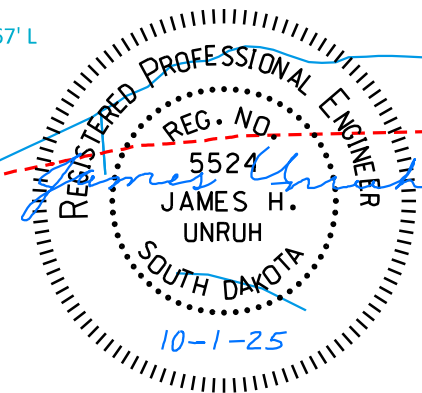
477+73.50 - 62.33' L to 479+34.50 - 53.67' L  
Install 18" -158' RC Pipe

479+34.50 to 80+04 - 53.67' L  
Install 18" -68' RC Pipe

476+13.00 to 477+73.50 - 53.67' R  
Install 18" -158' RC Pipe

477+73.50 to 479+34.50 - 53.67' R  
Install 18" -158' RC Pipe

479+34.50 to 479+61 - 53.67' R  
Install 18" -36' RC Pipe



Parcel 49-1  
476+99.65 to 479+42.12 L  
Temporary Easement containing  
0.1 ac. (2641 sq ft), more or less

Parcel 49-1  
478+16.65 to 480+79.25 R  
Temporary Easement containing  
0.1 ac. (4735 sq ft), more or less

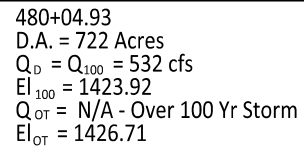




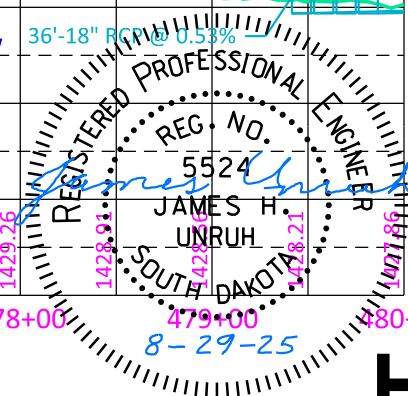
**FOR BIDDING PURPOSES ONLY**

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B59   | B174            |

REV DATE:  
INITIAL:



# VETERANS PARKWAY (South side storm sewer)



H2R

# VETERANS PARKWAY

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B60                   | B174            |
| FILE: ...\\Section B\\B60-B61 (480+00).dgn<br>PLOTING DATE: 08-29-2025 |                                            | REV DATE:<br>INITIAL: |                 |

SEC. 8 - T100N - R49W

SE 1/4

TRACT 1

5711, LLC  
Parcel 50-1

Brenkevco Properties, LLC  
Parcel 51X

DAL Properties LLC  
Parcel 50-2

Brenkevco Properties, LLC  
Parcel 51

Ronning Enterprises, Inc.  
Parcel 49-1X

City of Sioux Falls  
Parcel 49-2

City of Sioux Falls  
Parcel 49-1

480+49 to 480+72.50 - 53.67' L  
Install 24" -22' RC Pipe

480+72.50 to 481+69.19 - 53.67' L  
Install 24" -94' RC Pipe

481+69.19 to 482+14.00 - 53.67' L  
Install 24" -38' RC Pipe

482+14.00 to 482+69.19 - 53.67' L  
Install 18"-48' RC Pipe

486+55.27 to 487+04.00 - 53.67' L  
Install 18" -44' RC Pipe

487+04.00 to 487+55.27 - 53.67' L  
Install 18" -48' RC Pipe

487+14.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

Install 2'x 3' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
482+69.19 - 53.67' L  
482+69.19 - 53.67' R  
486+55.27 - 53.67' L  
486+55.27 - 53.67' R  
487+55.27 - 53.67' L  
487+55.27 - 53.67' R

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
482+14.00 - 53.67' L (4 Grates, 2' Wide)  
482+14.00 - 53.67' R (4 Grates, 2' Wide)  
487+04.00 - 53.67' L (2 Grates, 3' Wide)  
487+04.00 - 53.67' R (2 Grates, 3' Wide)

480+06 to 480+58.00 - 53.67' R  
Install 24" -52' RC Pipe

480+58.00 to 481+69.19 - 53.67' R  
Install 24" -108' RC Pipe

481+69.19 to 482+14.00 - 53.67' R  
Install 24" -38' RC Pipe

482+14.00 to 482+69.19 - 53.67' R  
Install 18"-48' RC Pipe

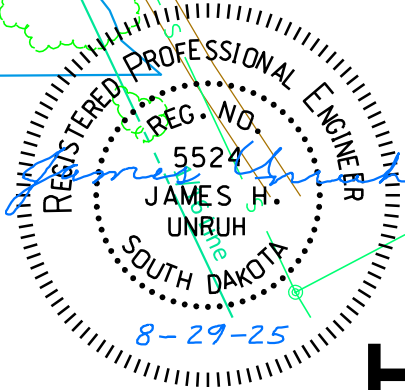
486+55.27 to 487+04.00 - 53.67' R  
Install 18" -44' RC Pipe

487+04.00 to 487+55.27 - 53.67' L  
Install 18" -48' RC Pipe

487+06.00 - 53.67' R to 104' R  
Install 24" -44' RC Pipe  
and 1 Flared End

Parcel 51  
480+68.62 to 487+50 R  
Temporary Easement containing  
0.1 ac. (6096 sq ft), more or less

Parcel 51X  
485+63.83 to 491+36.83 L  
Temporary Easement containing  
0.1 ac. (4793 sq ft), more or less

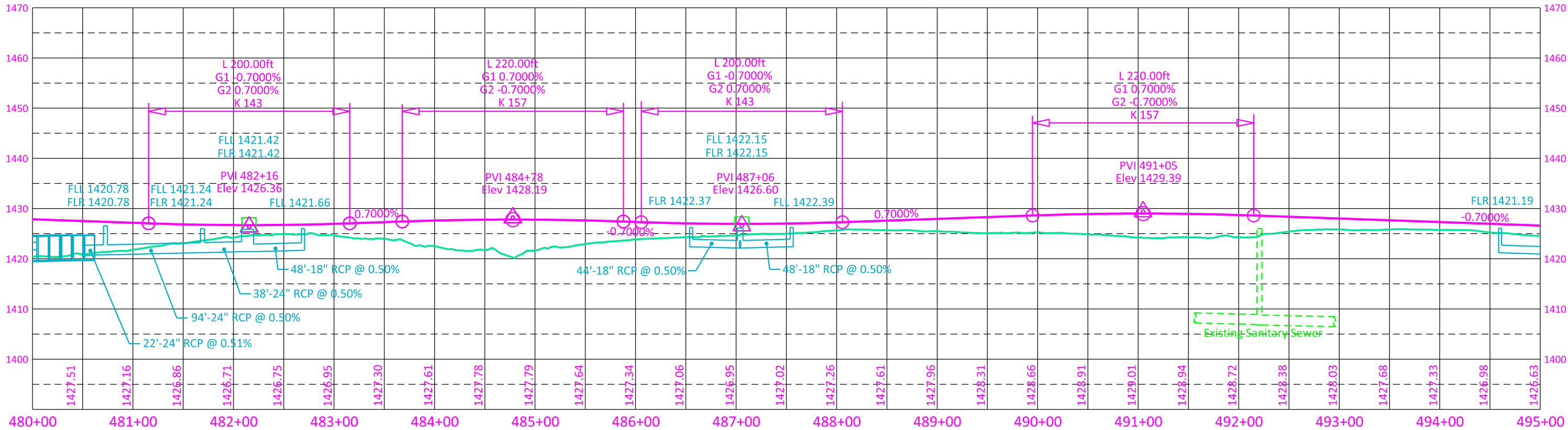




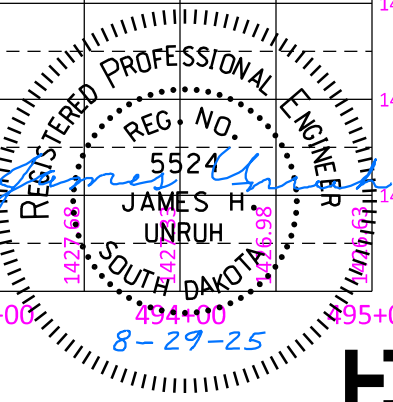
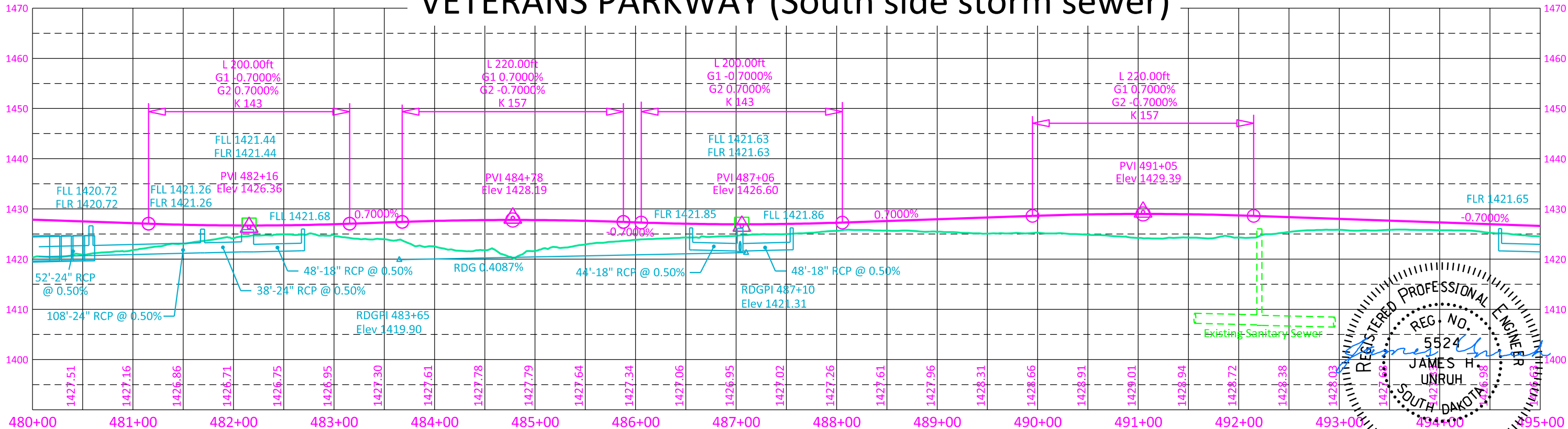
# VETERANS PARKWAY (North side storm sewer)

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|--------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B61                   | B174            |
| FILE: ...\\Section B\\B60-B61 (480+00).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOTING DATE: 08-29-2025                   |                                            |                       |                 |



# VETERANS PARKWAY (South side storm sewer)



505+85, 167' L to 506+48, 217' R  
Take out 389' Fence

505+85, 167' L to 512+05, 205' L  
Take out 590' Fence

494+60.00 to 495+76.00 - 53.67' L  
Install 18" -114' RC Pipe

495+76.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

495+76.00 to 497+24.00 - 53.67' L  
Install 18" -146' RC Pipe

497+24.00 to 497+56.00 - 53.67' L  
Install 18" -30' RC Pipe

497+56.00 to 498+05.66 - 53.67' L  
Install 24" -44' RC Pipe

498+05.66 - 53.67' L to 498+06 - 92' L  
Install 24" -32' RC Pipe  
and 1 Flared End

498+05.66 - 53.67' L to 14.33' L  
Install 24" -38' RC Pipe

498+05.66 - 14.33' L to 14.33' R  
Install 24" -26' RC Pipe

498+05.66 - 14.33' R to 53.7' R  
Install 18" -38' RC Pipe

498+05.66 to 498+56.00 - 53.67' L  
Install 18" -44' RC Pipe

498+56.00 to 499+70.00 - 53.67' L  
Install 18" -110' RC Pipe

504+91.67  
Install 2 - 12'x5'x223'-2" - Box Culvert  
11° 59' 50" RHF Skew  
(D.A. = 38.8 Acres)  
(See Section E)

SEC. 8 - T100N - R49W

5711, LLC  
Parcel 50-3

TRACT 1

5711, LLC  
Parcel 50-1

FOR BIDDING PURPOSES ONLY

507+30.00 to 508+65.00 - 53.67' L  
Install 18" -130' RC Pipe

508+65.00 to 510+00.00 - 53.67' L  
Install 18" -130' RC Pipe

The Spot - HWY 100 LLC  
Parcel 53-2

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B62   | B174            |

FILE: ...\\Section B\\B62-B63 (495+00).dgn  
PLOT DATE: 08-29-2025  
REV DATE:  
INITIAL:

The Spot - HWY 100 LLC  
Parcel 53-3

Proposed Veterans Parkway

495+00

N22°38'34"E

500+00

505+00

510+00

DAL Properties LLC  
Parcel 50-2

Install 2'x 3' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:

494+60.00 - 53.67' L  
494+60.00 - 53.67' R  
495+76.00 - 53.67' L  
495+76.00 - 53.67' R  
497+24.00 - 53.67' L  
497+24.00 - 14.33' R  
497+56.00 - 14.33' R  
498+56.00 - 53.67' L  
498+56.00 - 14.33' R  
499+70.00 - 53.67' L  
499+70.00 - 14.33' R  
507+30.00 - 53.67' L  
507+30.00 - 14.33' R  
508+65.00 - 53.67' L  
508+65.00 - 14.33' R  
510+00.00 - 53.67' L  
510+00.00 - 14.33' R

Install 3'x 4' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Location:  
497+56.00 - 53.67' L  
498+05.66 - 14.33' L  
498+05.66 - 53.67' R

DAL Properties LLC  
Parcel 50-2

Lot 1

494+60.00 to 495+76.00 - 53.67' R  
Install 18" -114' RC Pipe

497+24.00 to 497+56.00 - 14.33' R  
Install 18" -30' RC Pipe

497+56.00 to 498+05.66 - 14.33' R  
Install 18" -44' RC Pipe

498+05.66 to 498+56.00 - 14.33' R  
Install 18" -46 RC Pipe

498+56.00 to 499+70.00 - 14.33' R  
Install 18" -112' RC Pipe

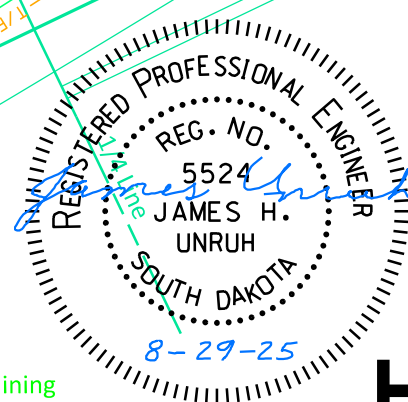
507+30.00 to 508+65.00 - 14.33' R  
Install 18" -134' RC Pipe

508+65.00 to 510+00.00 - 14.33' R  
Install 18" -134' RC Pipe

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
498+05.66 - 53.67' L (3 Grates, 3' Wide)  
498+05.66 - 14.33' R (3 Grates, 3' Wide)

Parcel 53-2  
505+70.07 to 508+26.85 L  
Temporary Easement containing  
0.1 ac. (6074 sq ft), more or less

Parcel 53-3  
508+26.85 to 509+75 L  
Temporary Easement containing  
0.1 ac. (1943 sq ft), more or less





# VETERANS PARKWAY (North side storm sewer)

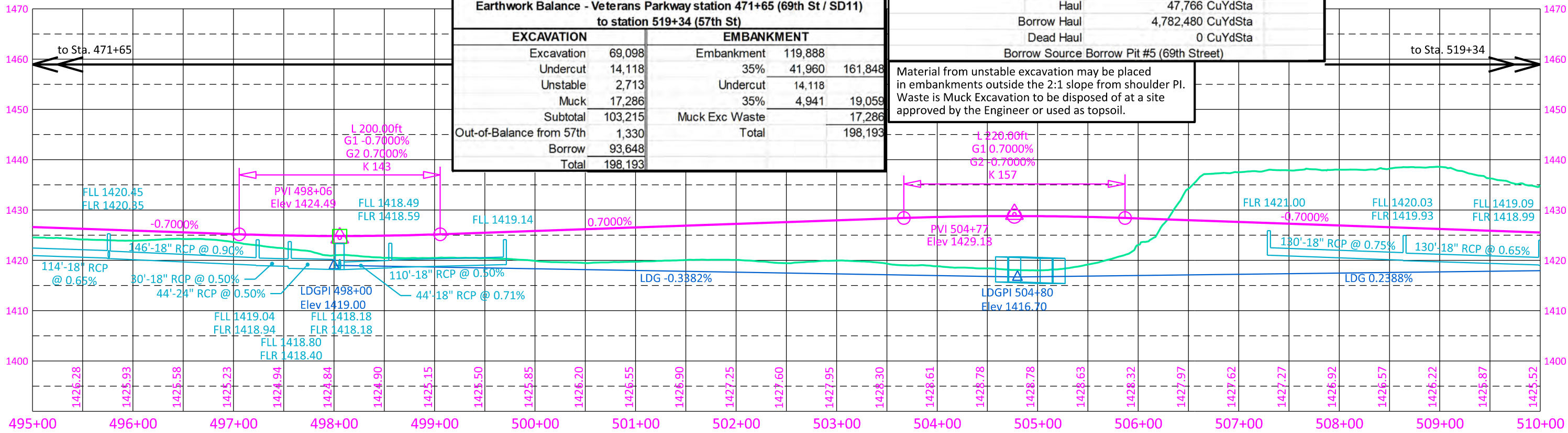
FOR BIDDING PURPOSES ONLY

|                                            |                                            |                      |                 |
|--------------------------------------------|--------------------------------------------|----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET                | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B63                  | B174            |
| FILE: ...\\Section B\\B62-B63 (495+00).dgn |                                            | REV DATE: 07-21-2026 |                 |
| PLOT DATE: 07-21-2026                      |                                            | INITIAL: JHU         |                 |

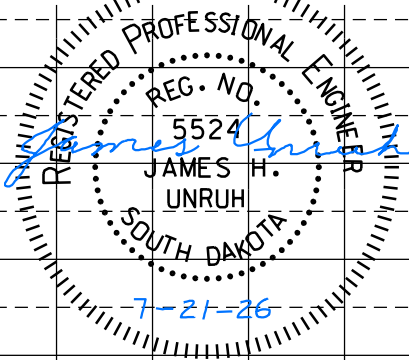
| Earthwork Balance - Veterans Parkway station 471+65 (69th St / SD11)<br>to station 519+34 (57th St) |         |                |         |
|-----------------------------------------------------------------------------------------------------|---------|----------------|---------|
| EXCAVATION                                                                                          |         | EMBANKMENT     |         |
| Excavation                                                                                          | 69,098  | Embankment     | 119,888 |
| Undercut                                                                                            | 14,118  | 35%            | 41,960  |
| Unstable                                                                                            | 2,713   | Undercut       | 14,118  |
| Muck                                                                                                | 17,286  | 35%            | 4,941   |
| Subtotal                                                                                            | 103,215 | Muck Exc Waste | 17,286  |
| Out-of-Balance from 57th                                                                            | 1,330   | Total          | 198,193 |
| Borrow                                                                                              | 93,648  |                |         |
| Total                                                                                               | 198,193 |                |         |

|                                           |                   |
|-------------------------------------------|-------------------|
| Haul                                      | 47,766 CuYdSta    |
| Borrow Haul                               | 4,782,480 CuYdSta |
| Dead Haul                                 | 0 CuYdSta         |
| Borrow Source Borrow Pit #5 (69th Street) |                   |

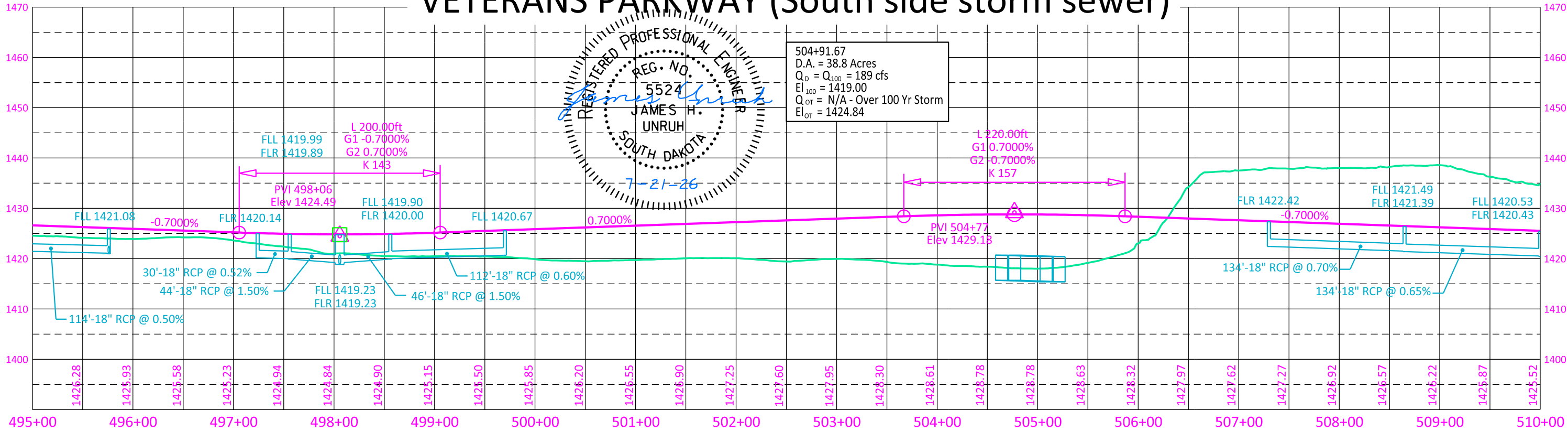
Material from unstable excavation may be placed in embankments outside the 2:1 slope from shoulder PI. Waste is Muck Excavation to be disposed of at a site approved by the Engineer or used as topsoil.



# VETERANS PARKWAY (South side storm sewer)



|                                             |
|---------------------------------------------|
| 504+91.67                                   |
| D.A. = 38.8 Acres                           |
| Q <sub>0</sub> = Q <sub>100</sub> = 189 cfs |
| EI <sub>100</sub> = 1419.00                 |
| Q <sub>OT</sub> = N/A - Over 100 Yr Storm   |
| EI <sub>OT</sub> = 1424.84                  |



**FOR BIDDING PURPOSES ONLY**

FILE: ...\\Section B\\B64-B65 (510+00).dgn      REV DATE:  
PLOTING DATE: 08-29-2025      INITIAL:

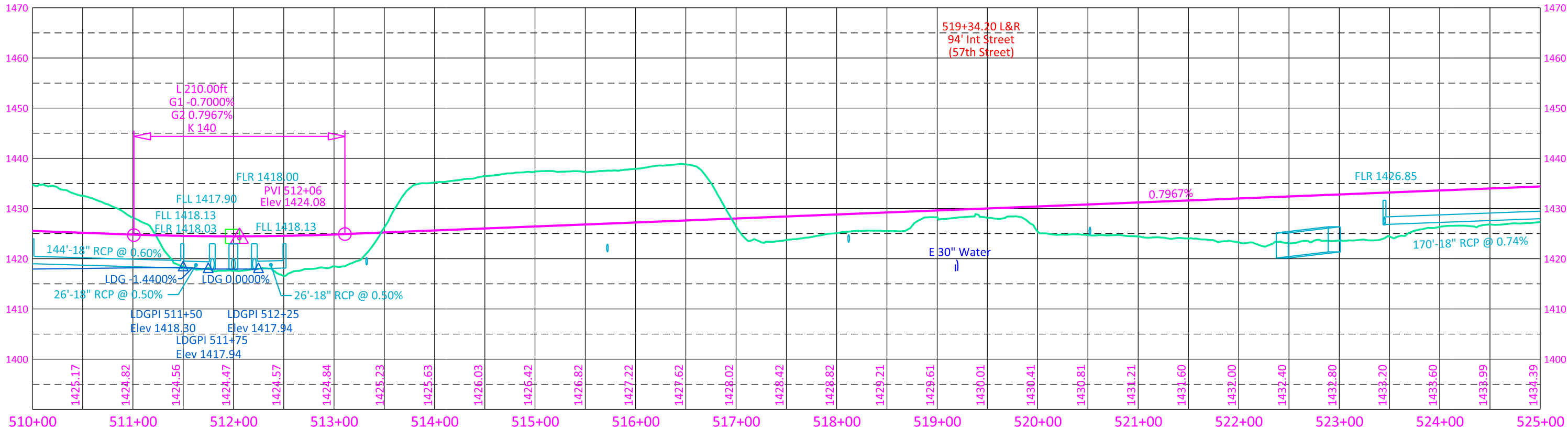
**HDR**



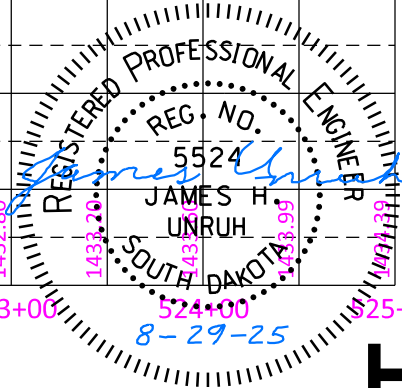
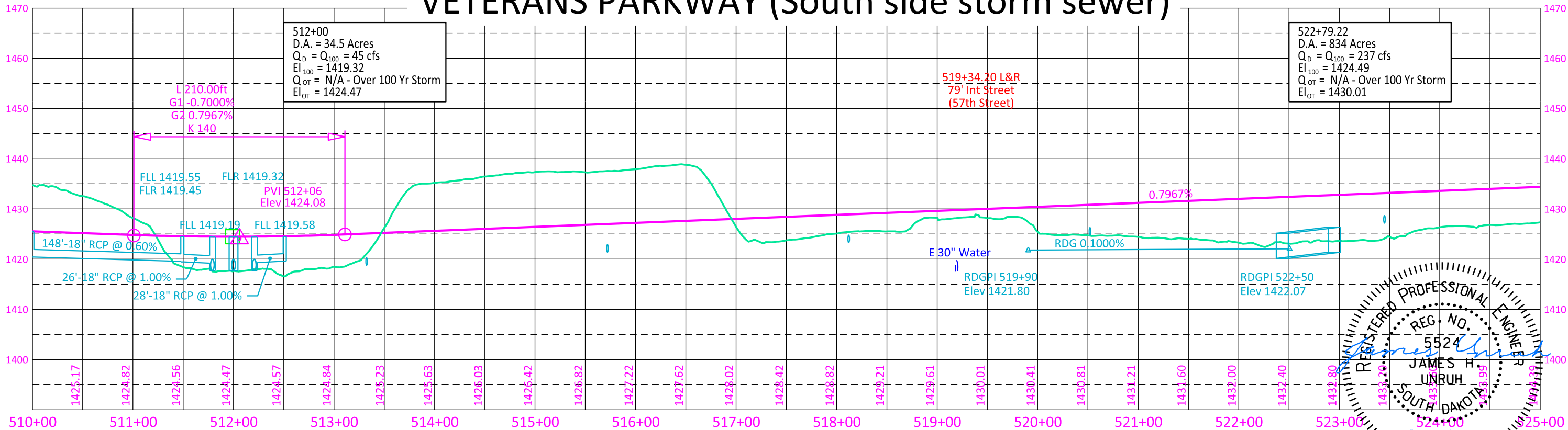
# VETERANS PARKWAY (North side storm sewer)

FOR BIDDING PURPOSES ONLY

|                                            |                                            |           |                 |
|--------------------------------------------|--------------------------------------------|-----------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET     | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B65       | B174            |
| FILE: ...\\Section B\\B64-B65 (510+00).dgn |                                            | REV DATE: |                 |
| PLOTING DATE: 08-29-2025                   |                                            | INITIAL:  |                 |



# VETERANS PARKWAY (South side storm sewer)



525+17.00 64.00' L to 53.67' L  
Install 18" -116' RC Pipe

525+17.00 - 64.00' L to 527+57.00 - 53.67' L  
Install 18" -238' RC Pipe

527+57.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

529+97.00 - 90' L to 53.67' L  
Install 18" -30' RC Pipe  
and 1 Flared End

529+97.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

532+37.00 - 101' L to 53.67' L  
Install 18" -40' RC Pipe  
and 1 Flared End

532+37.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

534+77.00 - 102' L to 53.67' L  
Install 18" -42' RC Pipe  
and 1 Flared End

534+77.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

534+77.00 to 536+90.00 - 53.67' L  
Install 18" -210' RC Pipe

536+90.00 - 53.67' L to 53.67' R  
Install 18" -106' RC Pipe

# VETERANS PARKWAY

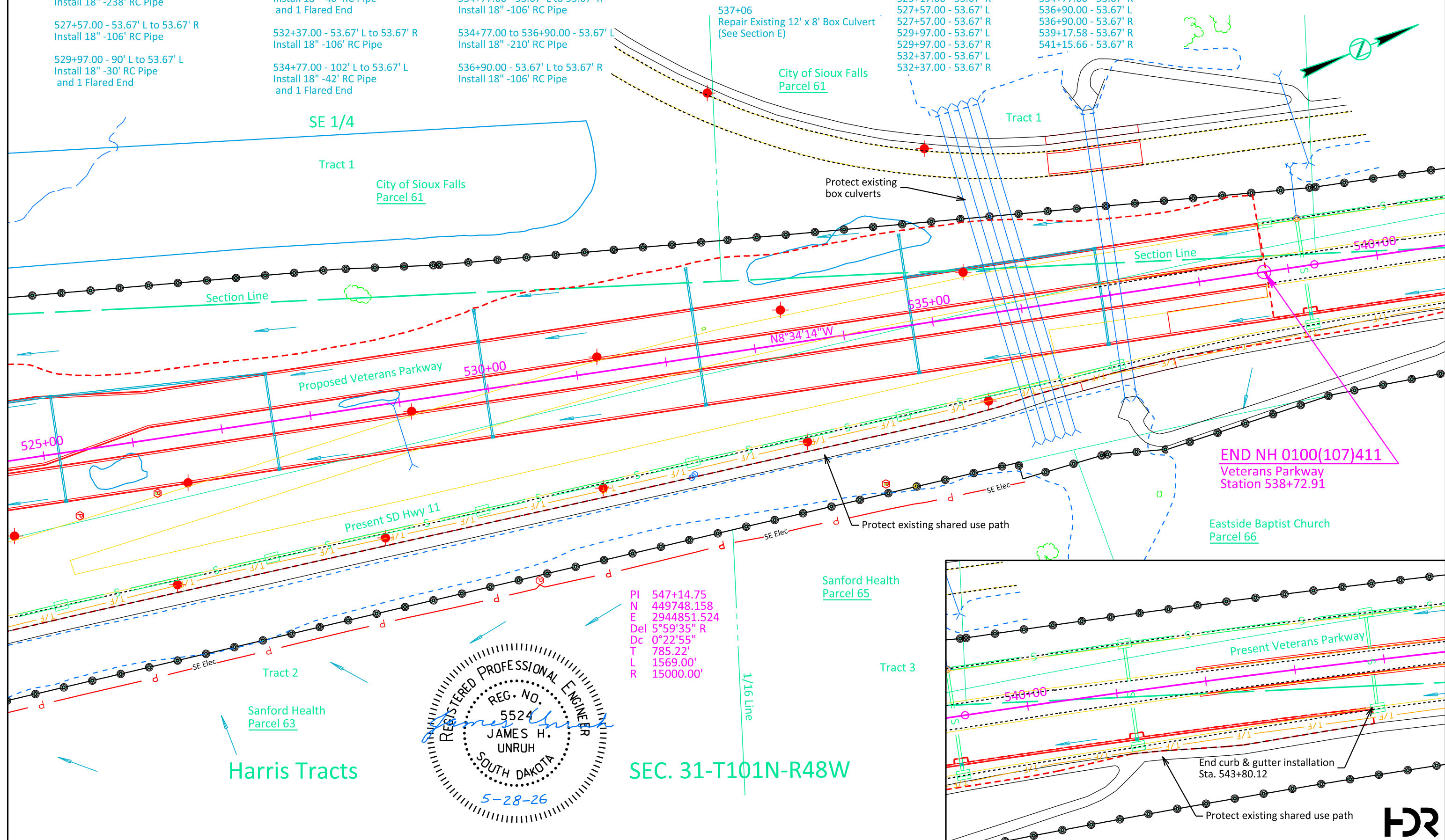
FOR BIDDING PURPOSES ONLY

Install 18" x 3' Type B Box Culverts with 1' Concrete Collar and Type B Frame & Grate at the Following Locations:

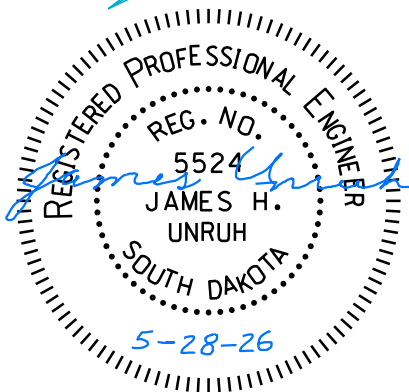
525+17.00 - 64.00' L  
525+17.00 - 53.67' R  
527+57.00 - 53.67' L  
527+57.00 - 53.67' R  
529+97.00 - 53.67' L  
529+97.00 - 53.67' R  
532+37.00 - 53.67' L  
532+37.00 - 53.67' R

534+77.00 - 53.67' L  
534+77.00 - 53.67' R  
536+90.00 - 53.67' L  
536+90.00 - 53.67' R  
539+17.58 - 53.67' R  
541+15.66 - 53.67' R

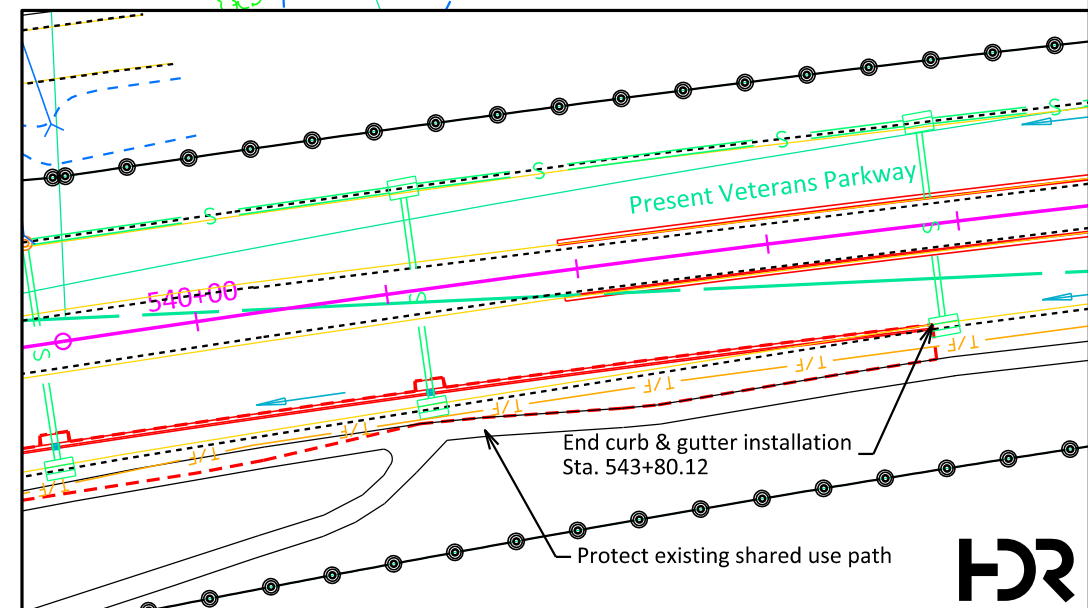
|                                            |                                            |           |                 |
|--------------------------------------------|--------------------------------------------|-----------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET     | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B66       | B174            |
| FILE: ...\\Section B\\B66-B67 (525+00).dgn |                                            | REV DATE: |                 |
| PLOTING DATE: 05-28-2026                   |                                            | INITIAL:  |                 |



PI 547+14.75  
N 449748.158  
E 2944851.524  
Del 5°59'35" R  
Dc 0°22'55"  
T 785.22'  
L 1569.00'  
R 15000.00'



SEC. 31-T101N-R48W





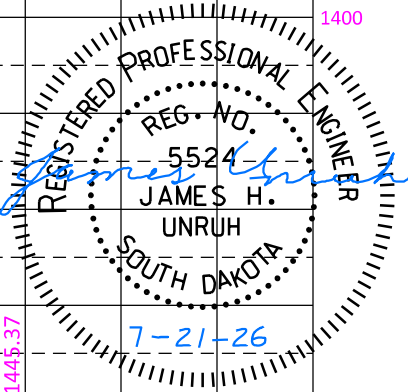
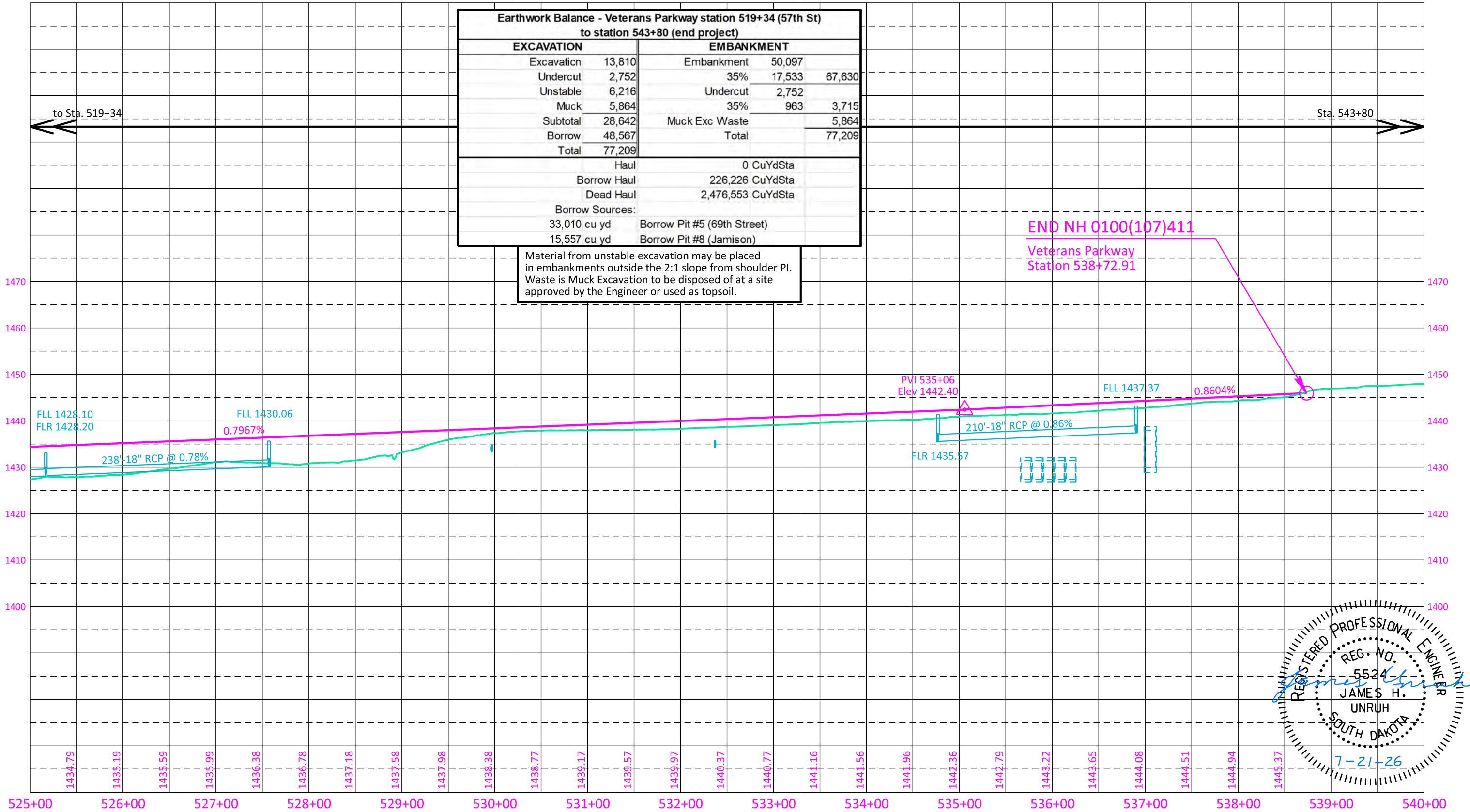
VETERANS PARKWAY

FOR BIDDING PURPOSES ONLY

|                                            |                                            |                      |                 |
|--------------------------------------------|--------------------------------------------|----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                | PROJECT                                    | SHEET                | TOTAL<br>SHEETS |
|                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B67                  | B174            |
| FILE: ...\\Section B\\B66-B67 (525+00).dgn |                                            | REV DATE: 07-21-2026 |                 |
| PLOTING DATE: 07-21-2026                   |                                            | INITIAL: JHU         |                 |

| Earthwork Balance - Veterans Parkway station 519+34 (57th St)<br>to station 543+80 (end project) |                             |                   |        |        |
|--------------------------------------------------------------------------------------------------|-----------------------------|-------------------|--------|--------|
| EXCAVATION                                                                                       |                             | EMBANKMENT        |        |        |
| Excavation                                                                                       | 13,810                      | Embankment        | 50,097 |        |
| Undercut                                                                                         | 2,752                       | 35%               | 17,533 | 67,630 |
| Unstable                                                                                         | 6,216                       | Undercut          | 2,752  |        |
| Muck                                                                                             | 5,864                       | 35%               | 963    | 3,715  |
| Subtotal                                                                                         | 28,642                      | Muck Exc Waste    |        | 5,864  |
| Borrow                                                                                           | 48,567                      | Total             |        | 77,209 |
| Total                                                                                            | 77,209                      |                   |        |        |
| Haul                                                                                             |                             | 0 CuYdSta         |        |        |
| Borrow Haul                                                                                      |                             | 226,226 CuYdSta   |        |        |
| Dead Haul                                                                                        |                             | 2,476,553 CuYdSta |        |        |
| Borrow Sources:                                                                                  |                             |                   |        |        |
| 33,010 cu yd                                                                                     | Borrow Pit #5 (69th Street) |                   |        |        |
| 15,557 cu yd                                                                                     | Borrow Pit #8 (Jamison)     |                   |        |        |

Material from unstable excavation may be placed in embankments outside the 2:1 slope from shoulder PI. Waste is Muck Excavation to be disposed of at a site approved by the Engineer or used as topsoil.



# 69TH STREET

FOR BIDDING PURPOSES ONLY

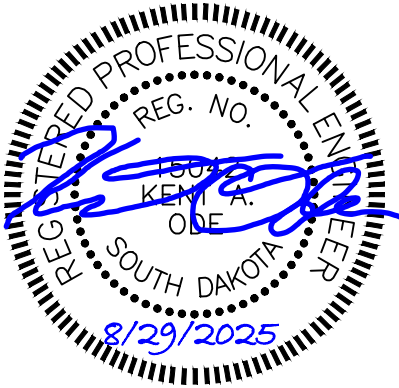
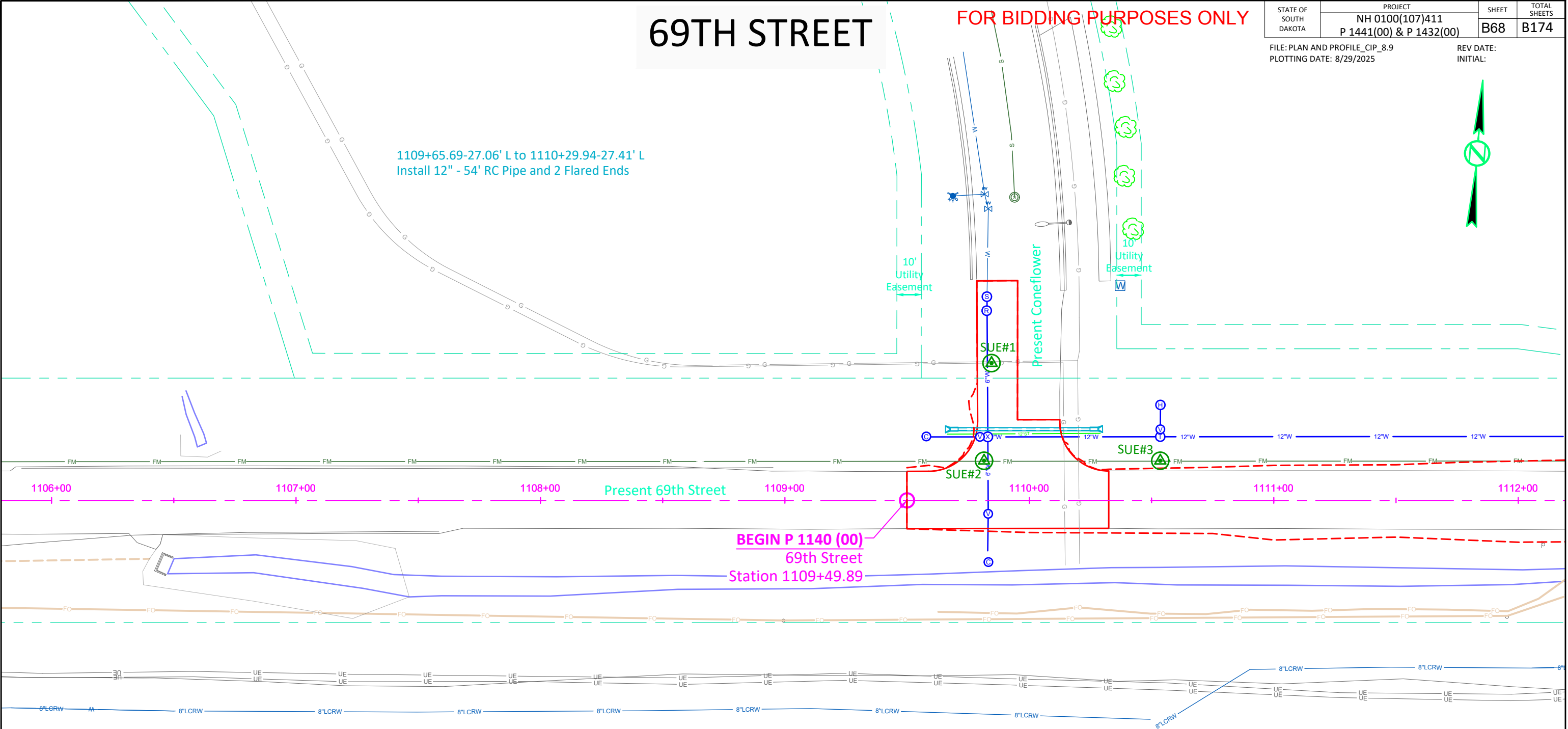
|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B68   | B174            |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:



1109+65.69-27.06' L to 1110+29.94-27.41' L  
Install 12" - 54' RC Pipe and 2 Flared Ends





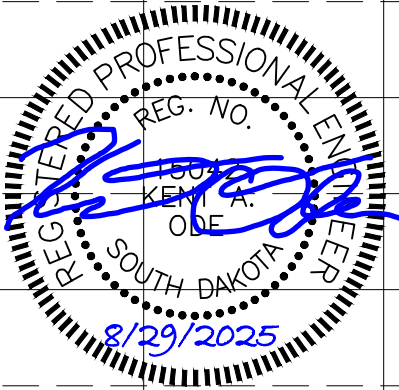
69TH STREET

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) |       |                 |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:



# 69TH STREET

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B70   | B174            |

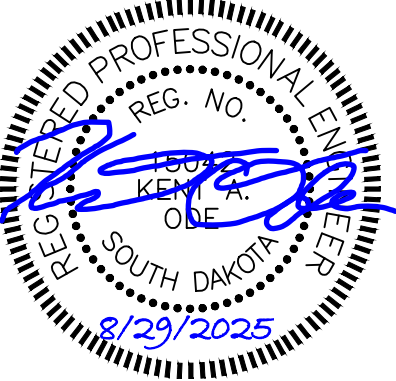
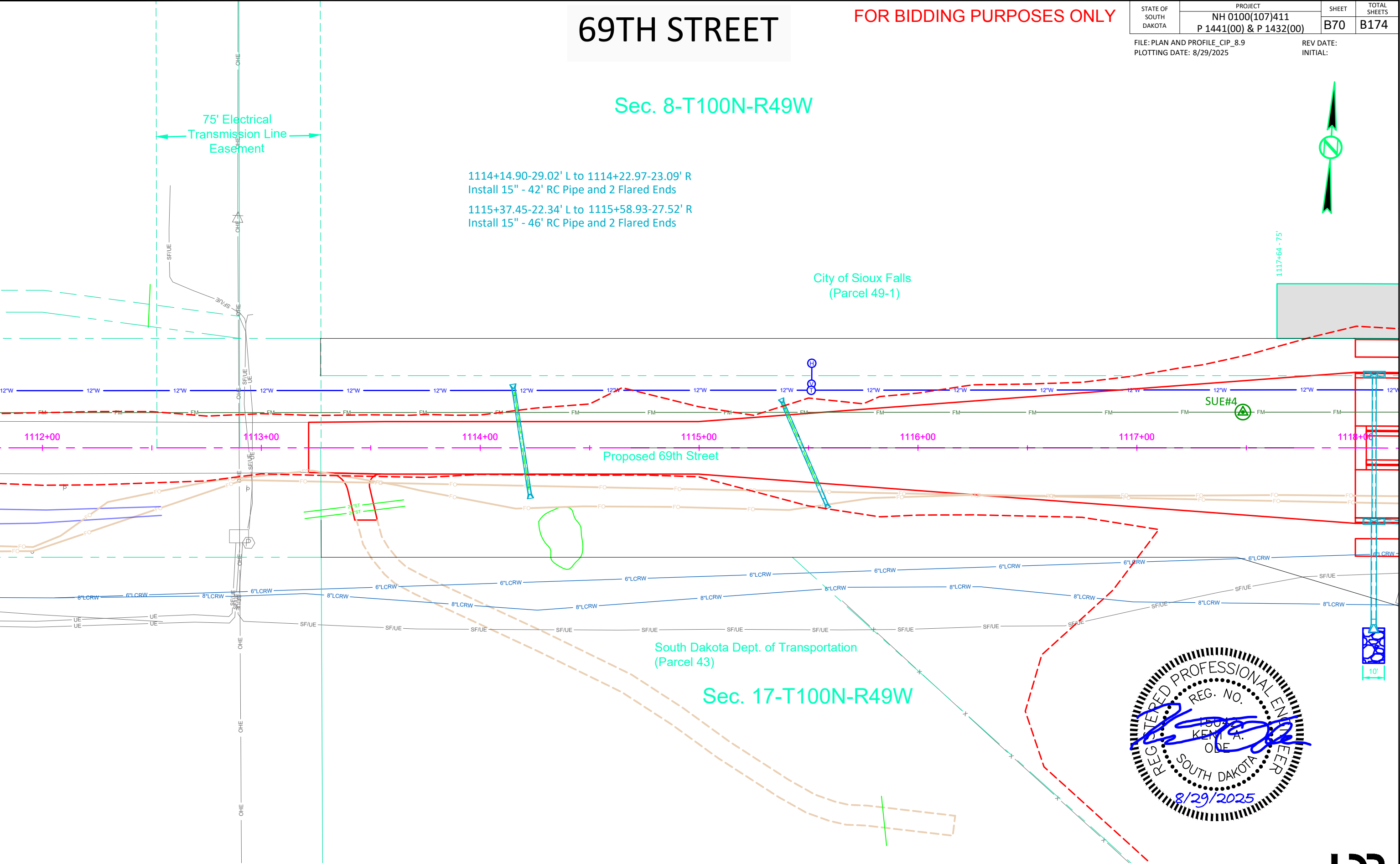
FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:

Sec. 8-T100N-R49W

1114+14.90-29.02' L to 1114+22.97-23.09' R  
Install 15" - 42' RC Pipe and 2 Flared Ends  
  
1115+37.45-22.34' L to 1115+58.93-27.52' R  
Install 15" - 46' RC Pipe and 2 Flared Ends

City of Sioux Falls  
(Parcel 49-1)





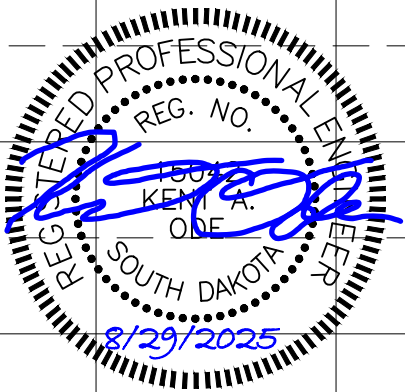
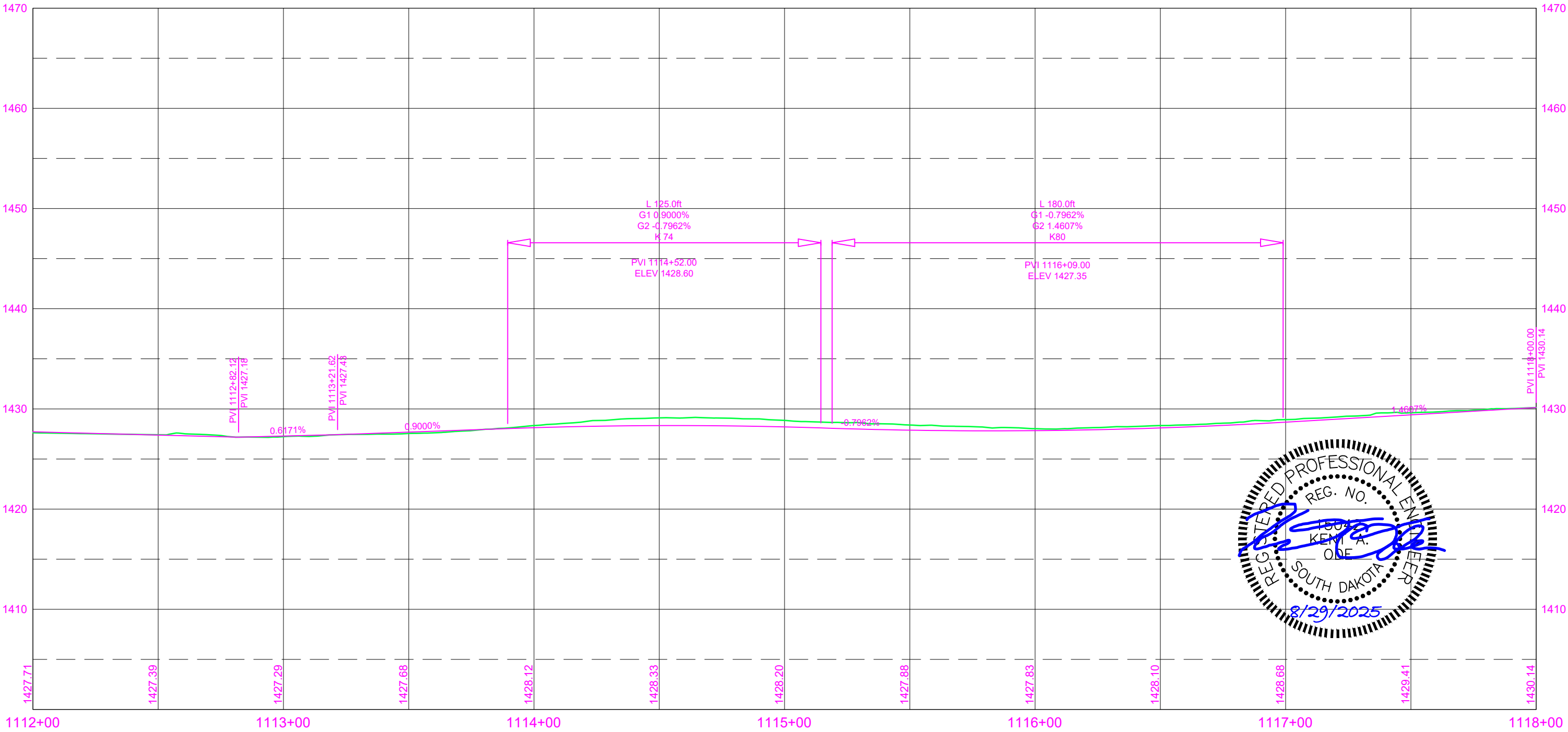
69TH STREET

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B71   | B174            |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:



# 69TH STREET

## Sec. 8-T100N-R49W

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B72   | B174            |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:

- 1118+08.31-32.49' L to 1118+08.44-32.50' R  
Install 18" - 66' RC Pipe

1118+08.44-34.50' R to 1118+08.55-84.37' R  
Install 24" - 44' RC Pipe and Flared End

1118+13.01-33.50' R to 1120+10.42-33.49' R  
Install 18" - 194' RC Pipe

1120+15.00-32.50' R to 1120+15.00-32.50' L  
Install 18" - 66' RC Pipe

1120+19.57-33.49' R to 1122+24.42-33.48' R  
Install 18" - 202' RC Pipe

1122+29.00-32.49' R to 1122+29.00-32.50' L  
Install 18" - 66' RC Pipe
- 1122+29.00-34.50' L to 1122+29.00-66.02' L  
Install 18" - 26' RC Pipe and Flared End

1122+33.42-33.50' L to 1123+60.16-44.50' L  
Install 18" - 130' RC Pipe

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grates  
at the Following Locations:  
(See SF Std. Plate 460.14)

1118+08.31-33.49' L (3 Grates, 2' Wide)

1118+08.44-33.50' R (3 Grates, 2' Wide)

1120+15.00-33.50' L (3 Grates, 2' Wide)

1120+15.00-33.50' R (3 Grates, 2' Wide)

1122+29.00-33.50' L (3 Grates, 2' Wide)

1122+28.99-33.49' R (3 Grates, 2' Wide)

Install 2'x3' Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grates  
at the Following Locations:  
1123+61.63-44.50' L

City of Sioux Falls  
(Parcel 49-1)

South Dakota Dept. of Transportation  
(Parcel 43)

Borrow Pit  
#5

Sec. 17-T100N-R49W

(Parcel 49-1)  
1117+64 to 1122.03  
Temporary Easement containing  
.22ac (9561 sq ft), more or less

Install Class B Riprap  
and Type B Drainage  
Fabric at the following  
location:  
1118+09, 90° R  
(16'x10'x3')  
27.4 Ton Riprap  
39 SqYd Drainage Fabric





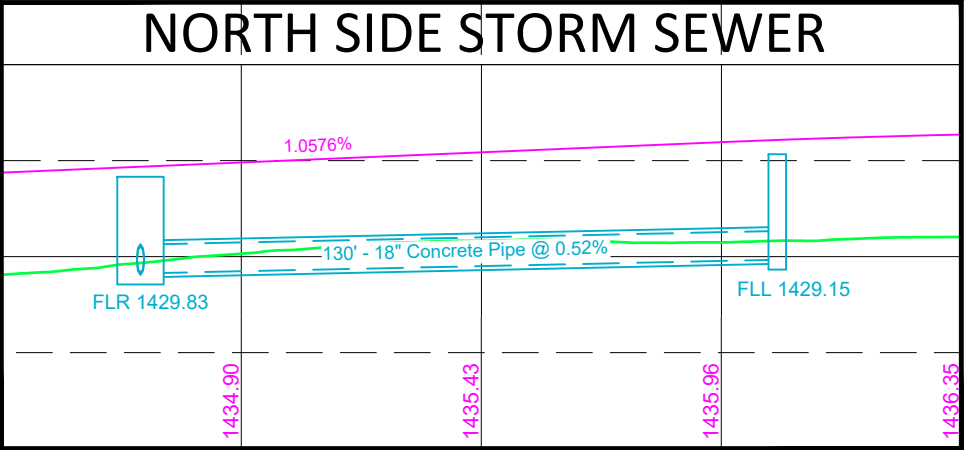
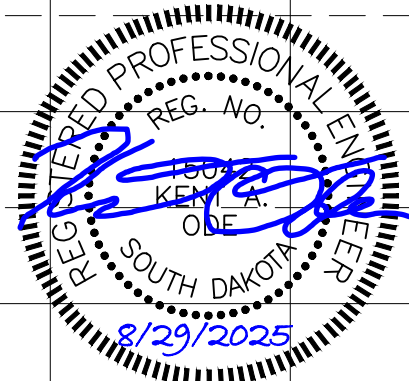
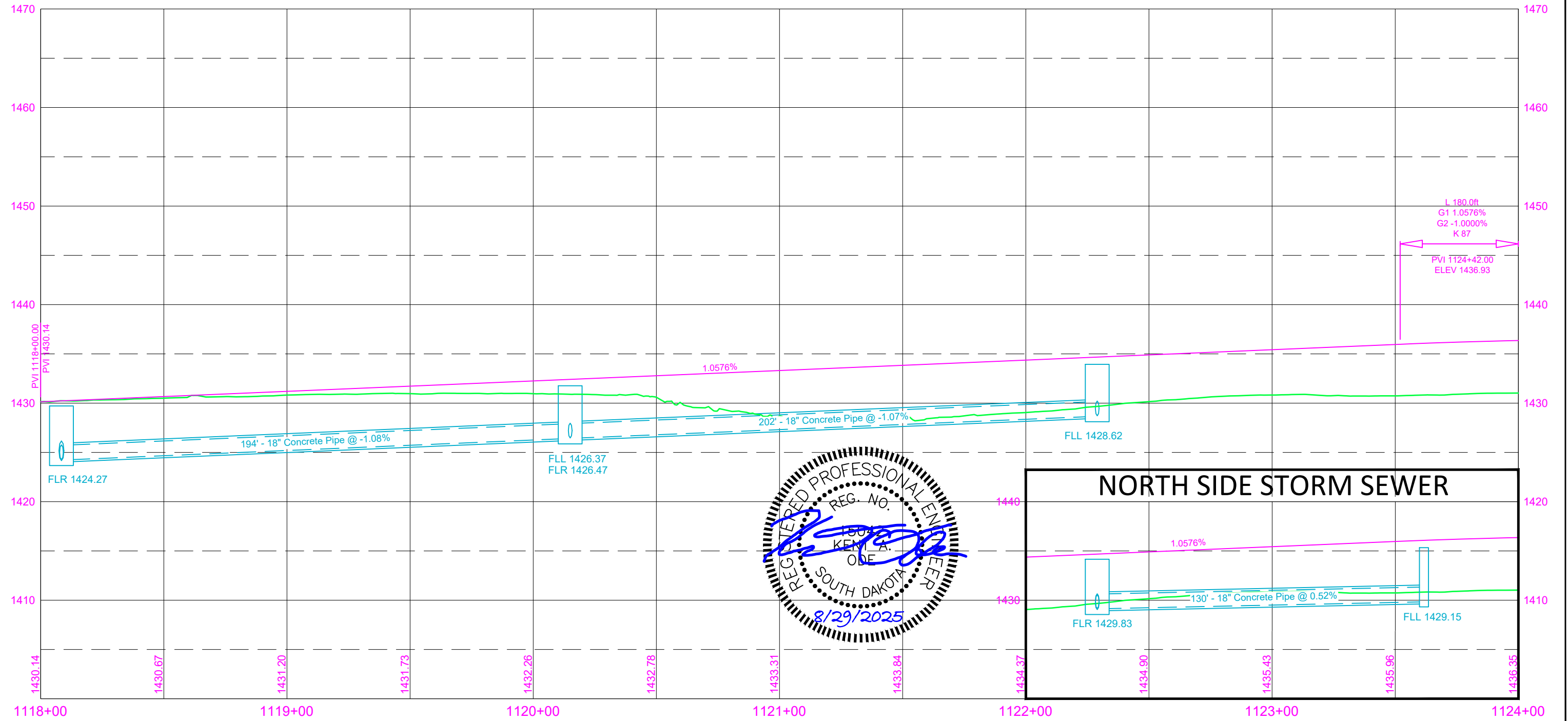
# 69TH STREET

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B73   | B174            |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:



C:\work\central\1449503\Plan and Profile\_CIP\_8.9.dwg  
PLOT DATE: 10/1/2025 9:56 AM Ole, Kent

TRACT 11

Ethiopian  
Christian  
Fellowship

69TH STREET

FOR BIDDING PURPOSES ONLY

STATE OF  
SOUTH  
DAKOTA

PROJECT  
NH 0100(107)411  
P 1441(00) & P 1432(00)

SHEET  
B74

TOTAL  
SHEETS  
B174

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 10/1/2025

REV DATE:  
INITIAL:

1125+89.39-138.97' L to 1126+68.98-169.58' L  
Install 18" - 76' RC Pipe and 2 Flared Ends

Existing 69th Street

Borrow Pit  
#5

1129+62.28-285.89' L to 1130+27.91-311.40' L  
Install 18" - 60' RC Pipe and 2 Flared Ends

Sec. 17-T100N-R49W

South Dakota Dept. of Transportation  
(Parcel 43)

South Dakota Dept. of Transportation  
(Parcel 43)

South Dakota Dept. of Transportation  
(Parcel 43)

Sec. 17-T100N-R49W

Sec.  
17-T100N-R49W

**WARNING  
HIGH-PRESSURE PIPELINE**

Xcel Energy will need to provide an inspector for any work within their easement. Notify the Xcel Energy Natural Gas representative listed in the utility contacts at least 48 hours before work within the easement. See also the Section B Utilities note.

Borrow Pit  
#5





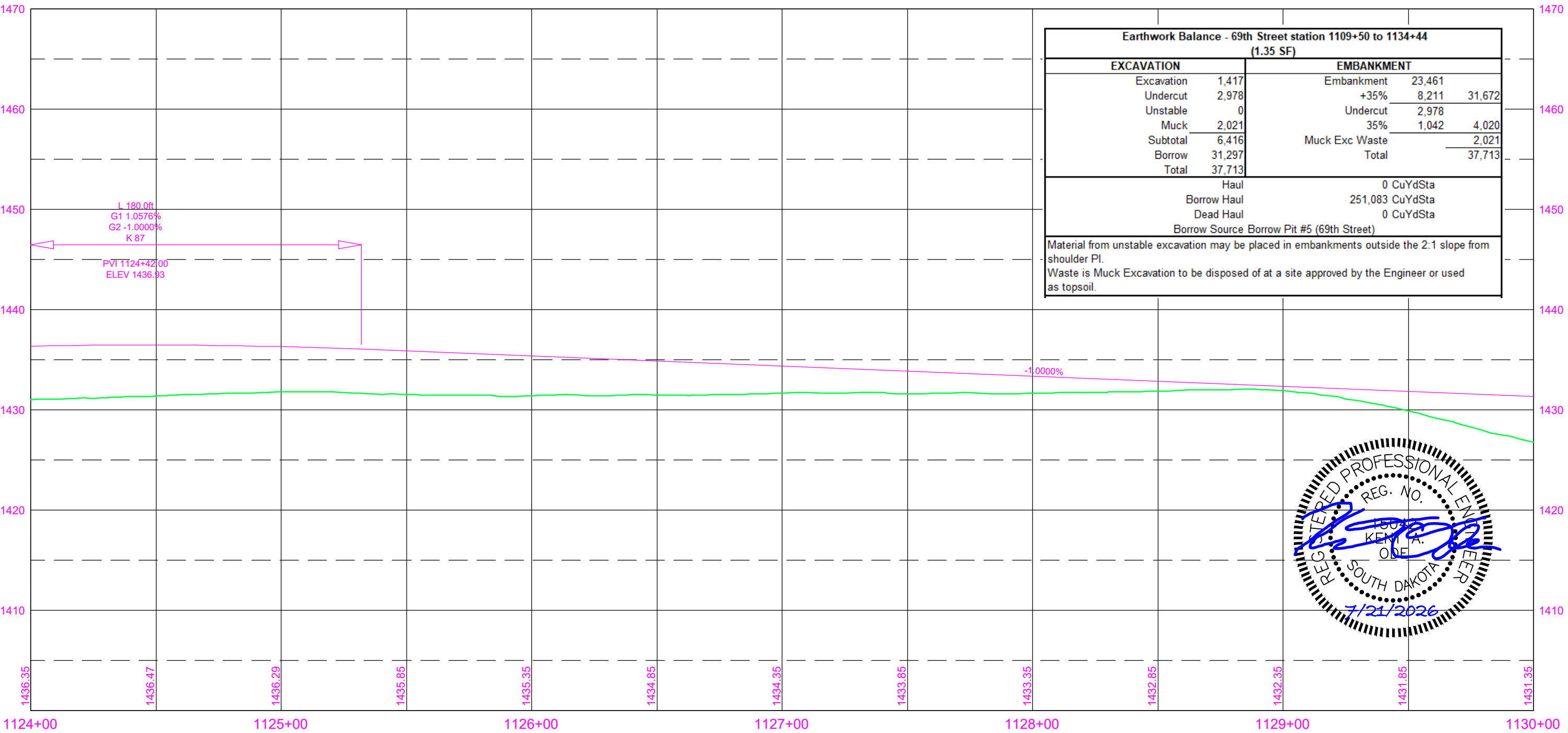
69TH STREET

FOR BIDDING PURPOSES ONLY

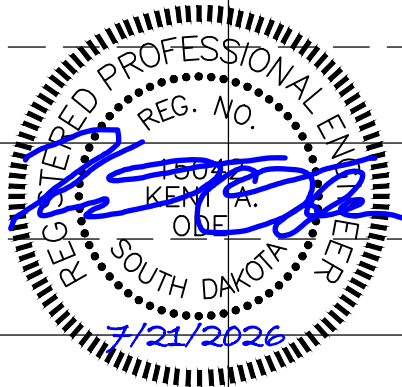
|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) |       |                 |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 7/21/2026

REV DATE: 07/21/2026  
INITIAL: KAO



| Earthwork Balance - 69th Street station 1109+50 to 1134+44<br>(1.35 SF)                                |        |                 |        |        |
|--------------------------------------------------------------------------------------------------------|--------|-----------------|--------|--------|
| EXCAVATION                                                                                             |        | EMBANKMENT      |        |        |
| Excavation                                                                                             | 1,417  | Embankment      | 23,461 |        |
| Undercut                                                                                               | 2,978  | +35%            | 8,211  | 31,672 |
| Unstable                                                                                               | 0      | Undercut        | 2,978  |        |
| Muck                                                                                                   | 2,021  | 35%             | 1,042  | 4,020  |
| Subtotal                                                                                               | 6,416  | Muck Exc Waste  |        | 2,021  |
| Borrow                                                                                                 | 31,297 | Total           |        | 37,713 |
| Total                                                                                                  | 37,713 |                 |        |        |
| Haul                                                                                                   |        | 0 CuYdSta       |        |        |
| Borrow Haul                                                                                            |        | 251,083 CuYdSta |        |        |
| Dead Haul                                                                                              |        | 0 CuYdSta       |        |        |
| Borrow Source Borrow Pit #5 (69th Street)                                                              |        |                 |        |        |
| Material from unstable excavation may be placed in embankments outside the 2:1 slope from shoulder PI. |        |                 |        |        |
| Waste is Muck Excavation to be disposed of at a site approved by the Engineer or used as topsoil.      |        |                 |        |        |



69TH STREET

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B76   | B174            |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grates  
at the Following Locations:  
(See SF Std. Plate 460.14)

1131+25.54-33.50' L (2 Grates, 2' Wide)  
1131+25.55-33.50' R (2 Grates, 2' Wide)  
1132+28.89-33.50' L (2 Grates, 2' Wide)  
1132+28.90-33.50' R (2 Grates, 2' Wide)

Install 4' x 11' Type S  
Drop Inlets at the Following Locations:  
1131+77.16-36.50' L  
1131+77.22-36.50' R

1131+25.54-32.50' L to 1131+25.55-32.50' R  
Install 18" - 66' RC Pipe

1131+28.55-33.50' R to 1131+71.72-36.50' R  
Install 18" - 44' RC Pipe

1131+77.22-34.50' R to 1131+77.16-34.50' L  
Install 18" - 70' RC Pipe

1131+77.22-38.50' R to 1131+77.22-114.00' R  
Install 24" - 70' RC Pipe and Flared End

1131+82.72-36.50' R to 1132+25.90-33.50' R  
Install 18" - 44' RC Pipe

1132+28.90-32.50' R to 1132+28.89-32.50' L  
Install 18" - 66' RC Pipe

1133+00.00-128.00' R to 1133+00.00-111.79' L  
Install 36" - 224' RC Pipe and 2 Flared Ends  
(D.A. = 7.5 Acres)

Sec. 17-T100N-R49W

South Dakota Dept. of Transportation  
(Parcel 43)

Proposed 69th Street

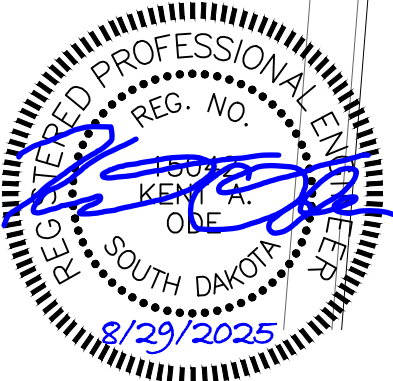
END P 1440 (00)  
69th Street  
Station 1134+44.33

South Dakota Dept. of Transportation  
(Parcel 43)

Sec. 17-T100N-R49W

Install Class B Riprap  
and Type B Drainage  
Fabric at the following  
location:  
1131+77.22-119.00' R  
(14'x11'x3')  
26.4 Ton Riprap  
37 SqYd Drainage Fabric

Install Class B Riprap  
and Type B Drainage  
Fabric at the following  
location:  
1133+00.00-134.00' R  
(16'x11'x3')  
30.1 Ton Riprap  
41 SqYd Drainage Fabric





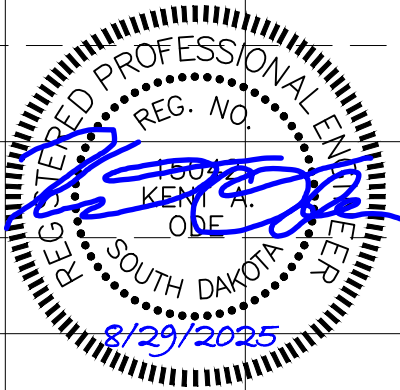
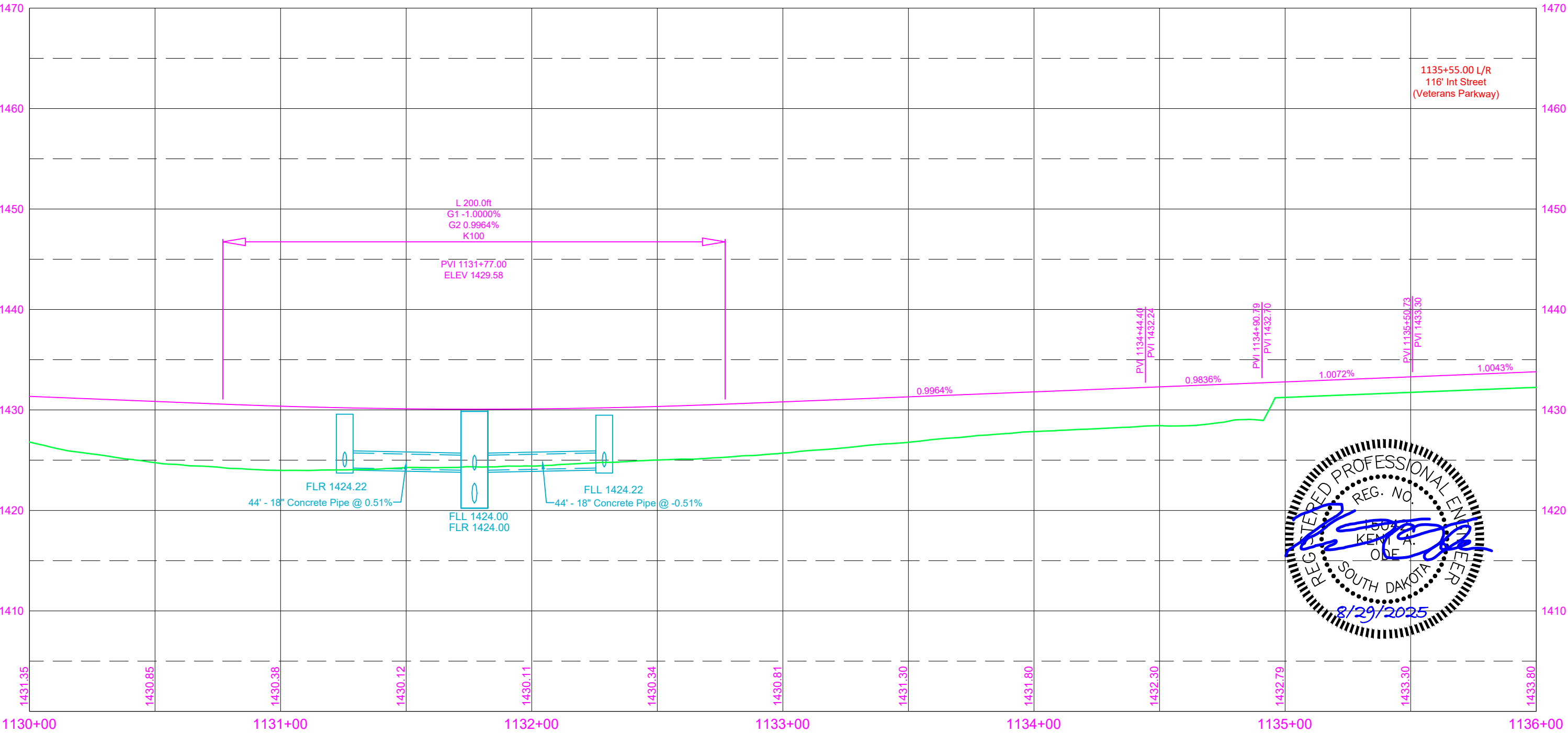
69TH STREET

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) |       |                 |

FILE: PLAN AND PROFILE\_CIP\_8.9  
PLOT DATE: 8/29/2025

REV DATE:  
INITIAL:

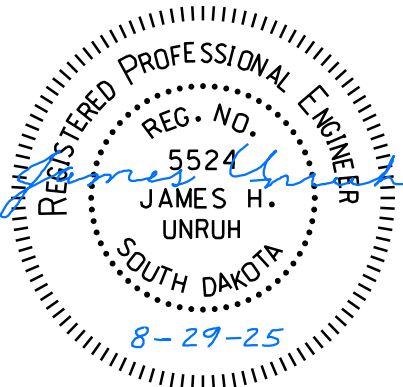
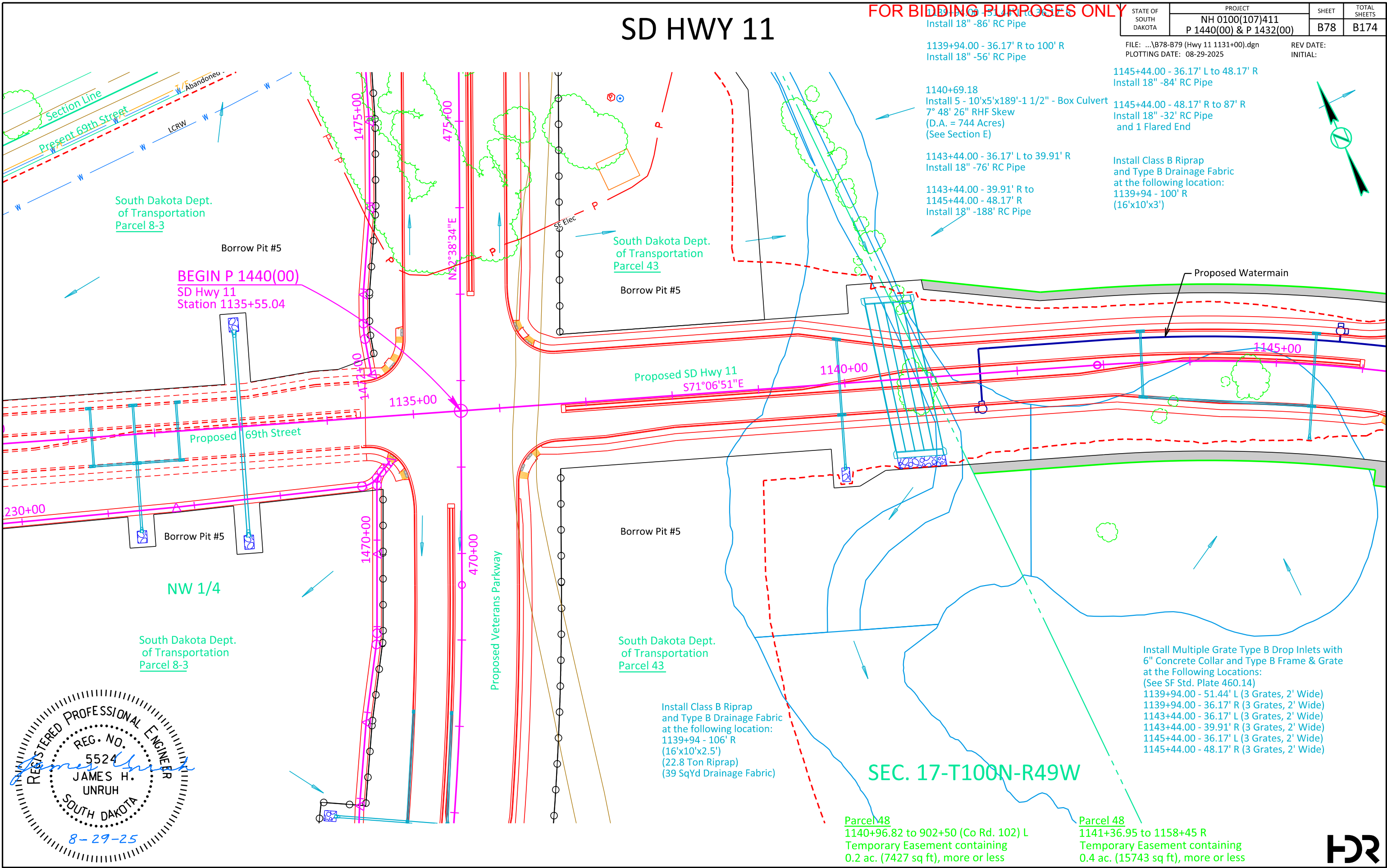


SD HWY 11

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B78   | B174            |

FILE: ...\\B78-B79 (Hwy 11 1131+00).dgn  
PLOTING DATE: 08-29-2025  
REV DATE:  
INITIAL:





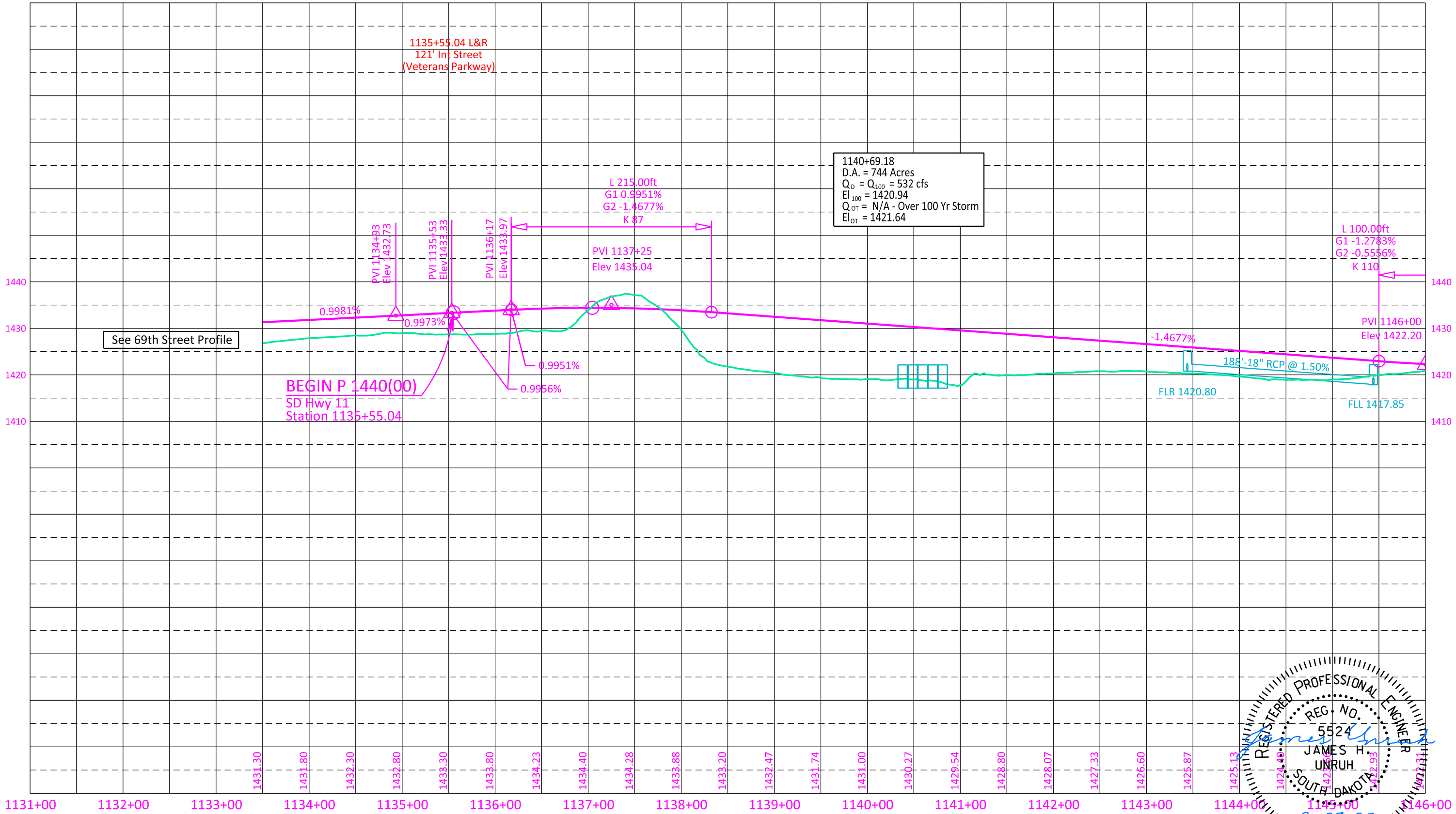
# SD HWY 11 PROFILE

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B79   | B174            |

FILE: ...\\B78-B79 (Hwy 11 1131+00).dgn  
PLOTING DATE: 08-29-2025

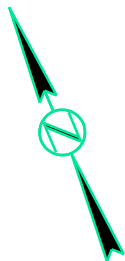
REV DATE:  
INITIAL:



SD HIGHWAY 11

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA              | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                          | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B80                   | B174            |
| FILE: ...\\B80-B81 (Hwy 11t 1146+00).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOTING DATE: 08-29-2025                 |                                            |                       |                 |



SEC. 16-T100N-R49W

NW 1/4

E 1/2 NE 1/4

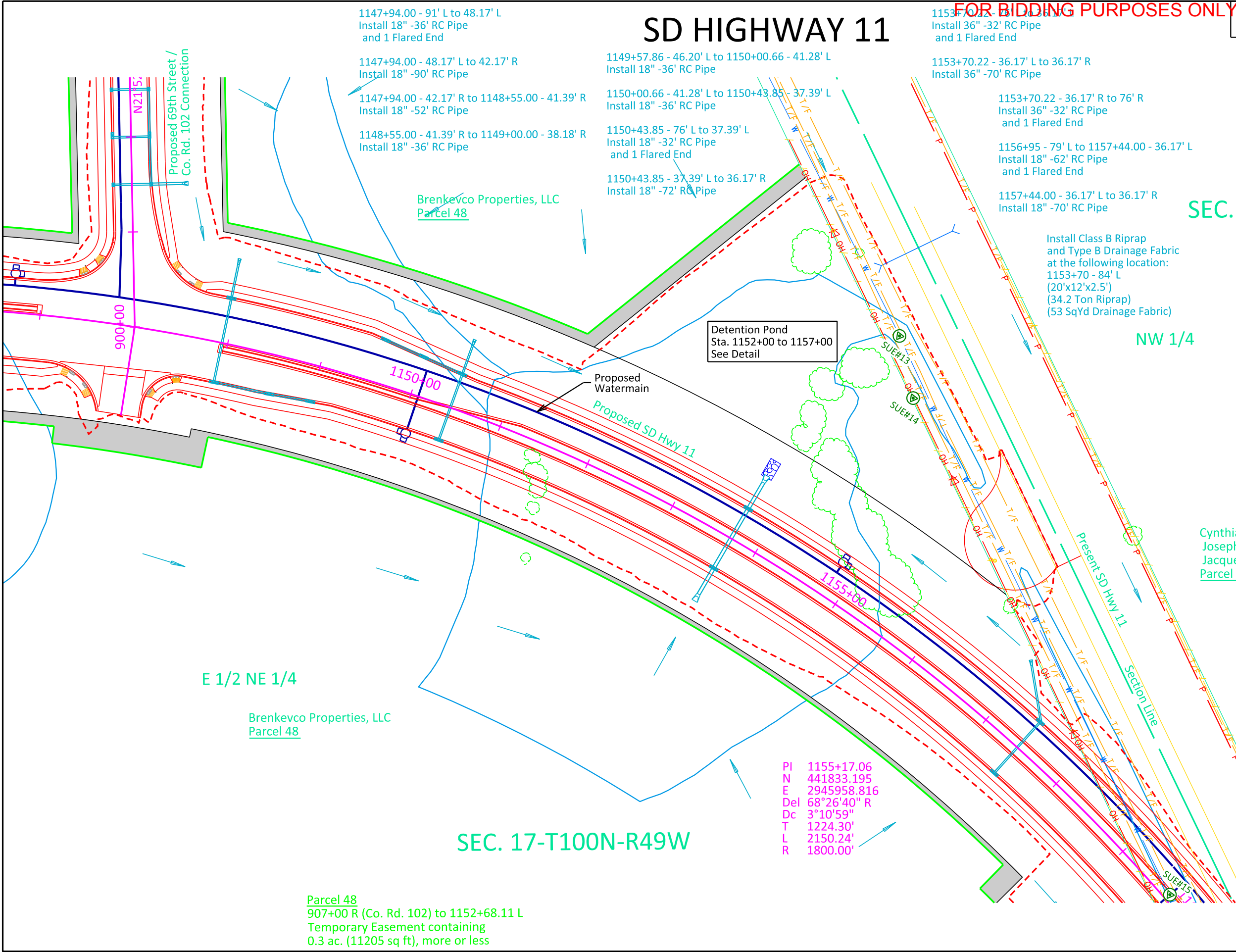
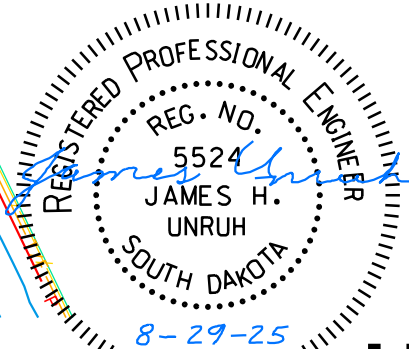
SEC. 17-T100N-R49W

Parcel 48  
907+00 R (Co. Rd. 102) to 1152+68.11 L  
Temporary Easement containing  
0.3 ac. (11205 sq ft), more or less

Brenkevco Properties, LLC  
Parcel 48

Brenkevco Properties, LLC  
Parcel 48

Cynthia Ann Hayes, Thomas Everett Hayes,  
Joseph William Hayes, Bridget Marie Hayes,  
Jacqueline Kay Hayes, and Patrick James Hayes  
Parcel 56-1



Detention Pond  
Sta. 1152+00 to 1157+00  
See Detail

PI 1155+17.06  
N 441833.195  
E 2945958.816  
Del 68°26'40" R  
Dc 3°10'59"  
T 1224.30'  
L 2150.24'  
R 1800.00'

Install Class B Riprap  
and Type B Drainage Fabric  
at the following location:  
1153+70 - 84' L  
(20'x12'x2.5')  
(34.2 Ton Riprap)  
(53 SqYd Drainage Fabric)

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
1147+94.00 - 48.17' L (3 Grates, 2' Wide)  
1147+94.00 - 42.17' R (3 Grates, 2' Wide)  
1148+55.00 - 41.39' R (3 Grates, 2' Wide)  
1149+00.00 - 38.18' R (3 Grates, 2' Wide)  
1149+57.86 - 46.20' L (3 Grates, 2' Wide)  
1150+00.66 - 41.28' L (3 Grates, 2' Wide)  
1150+43.85 - 37.39' L (3 Grates, 2' Wide)  
1150+43.85 - 36.17' R (3 Grates, 2' Wide)  
1153+70.22 - 36.17' L (3 Grates, 2' Wide)  
1153+70.22 - 36.17' R (3 Grates, 2' Wide)  
1157+44.00 - 36.17' L (3 Grates, 2' Wide)  
1157+44.00 - 36.17' R (3 Grates, 2' Wide)



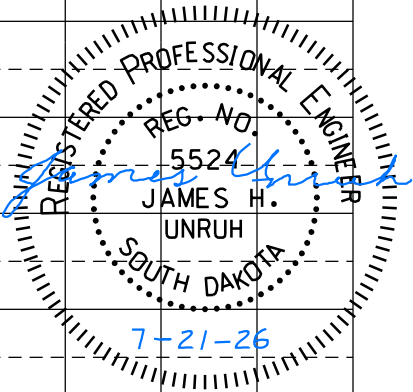
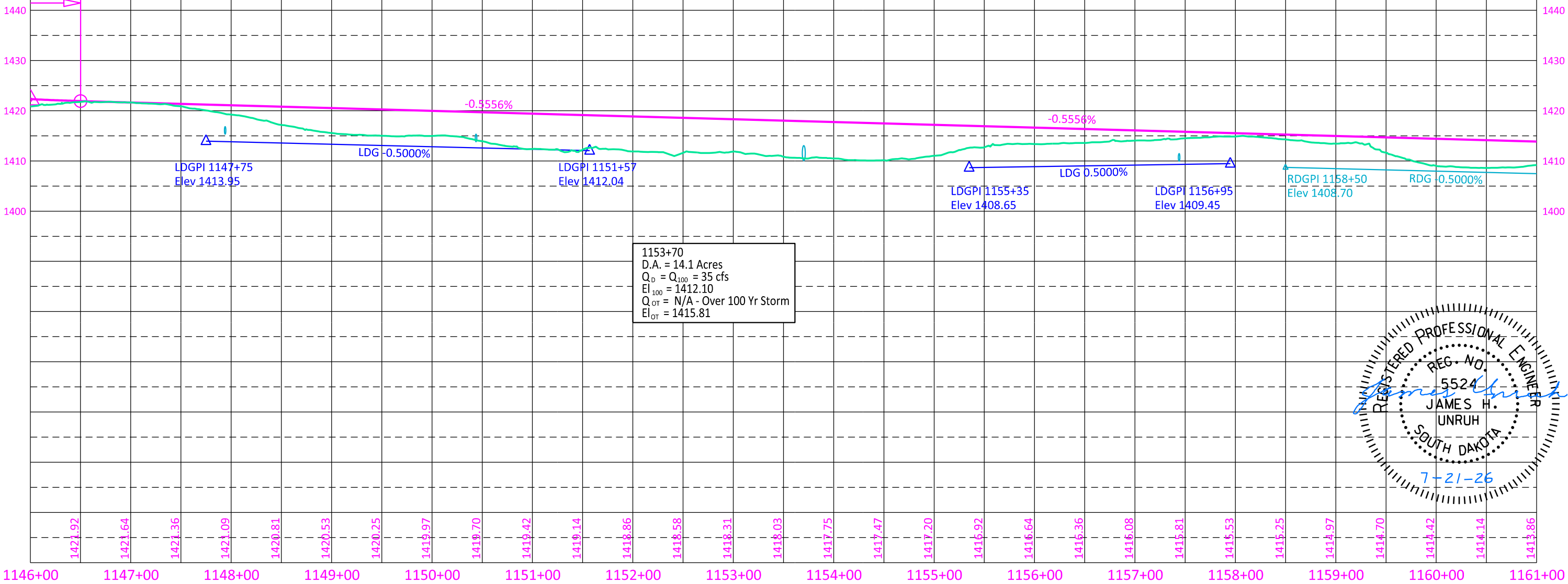
# SD HIGHWAY 11 PROFILE

FOR BIDDING PURPOSES ONLY

|                                                                      |                                            |                                      |                 |
|----------------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                          | PROJECT                                    | SHEET                                | TOTAL<br>SHEETS |
|                                                                      | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B81                                  | B174            |
| FILE: ...\\B80-B81 (Hwy 11t 1146+00).dgn<br>PLOTING DATE: 07-21-2026 |                                            | REV DATE: 07-21-2026<br>INITIAL: JHU |                 |

| Earthwork Balance - SD11 station 1136+69 (Veterans) to station 1169+47 (end project)<br>(1.30 SF) |         |                 |        |         |
|---------------------------------------------------------------------------------------------------|---------|-----------------|--------|---------|
| EXCAVATION                                                                                        |         | EMBANKMENT      |        |         |
| Excavation                                                                                        | 25,044  | Embankment      | 80,274 |         |
| Undercut                                                                                          | 6,191   | 30%             | 24,082 | 104,356 |
| Unstable                                                                                          | 12,158  | Undercut        | 6,191  |         |
| Muck                                                                                              | 2,843   | 30%             | 1,857  | 8,048   |
| Subtotal                                                                                          | 46,236  | Muck Exc Waste  |        | 2,843   |
| Borrow                                                                                            | 69,011  | Total           |        | 115,247 |
| Total                                                                                             | 115,247 |                 |        |         |
| Haul                                                                                              |         | 0 CuYdSta       |        |         |
| Borrow Haul                                                                                       |         | 933,144 CuYdSta |        |         |
| Dead Haul                                                                                         |         | 0 CuYdSta       |        |         |
| Borrow Source Borrow Pit #5 (69th Street)                                                         |         |                 |        |         |

Material from unstable excavation may be placed in embankments outside the 2:1 slope from shoulder PI. Waste is Muck Excavation to be disposed of at a site approved by the Engineer or used as topsoil.

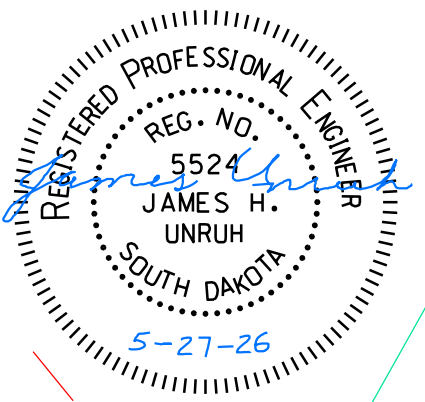
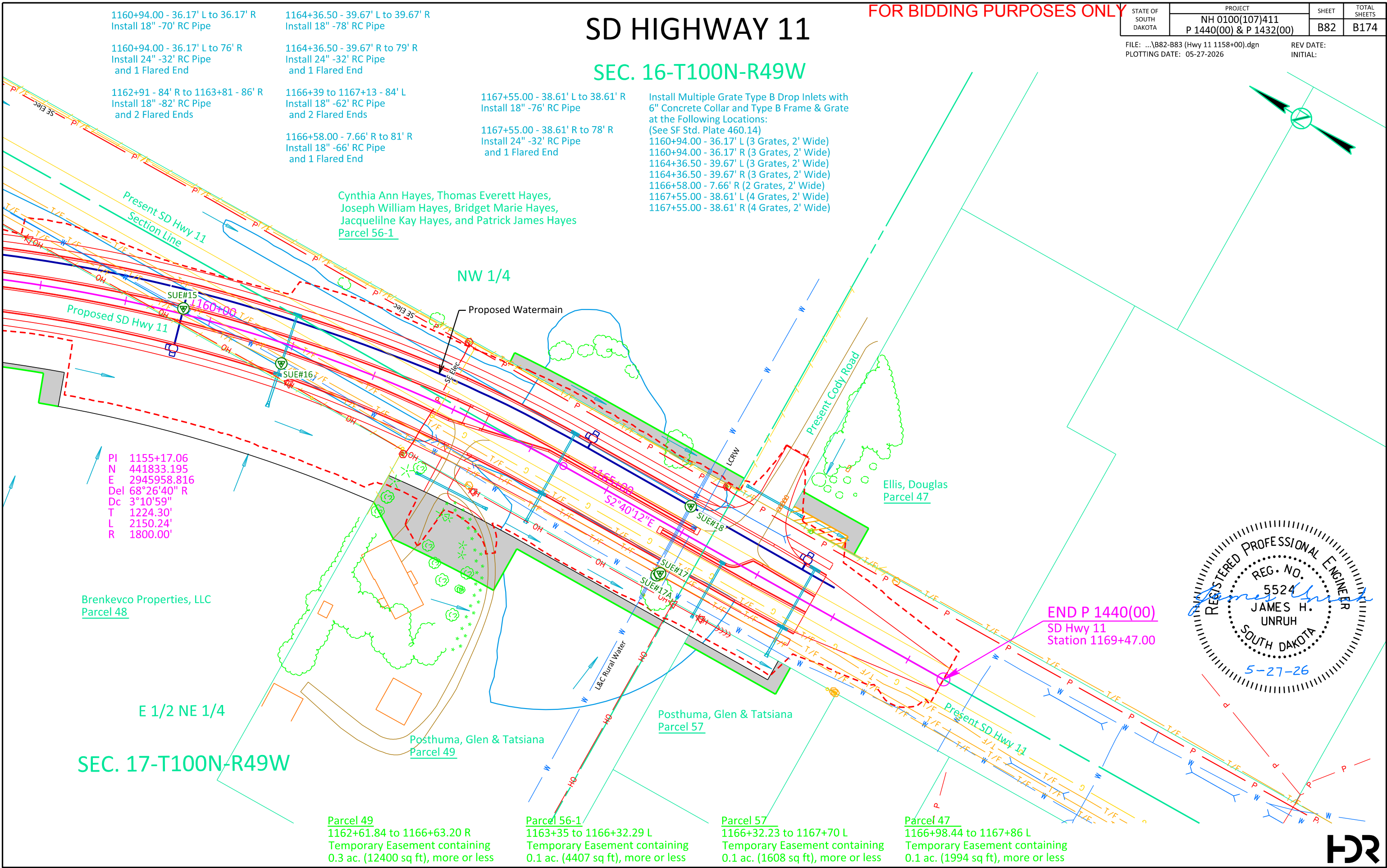


SD HIGHWAY 11

SEC. 16-T100N-R49W

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B82                   | B174            |
| FILE: ...\\B82-B83 (Hwy 11 1158+00).dgn<br>PLOTING DATE: 05-27-2026 |                                            | REV DATE:<br>INITIAL: |                 |





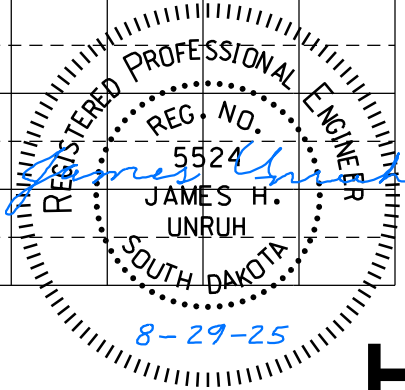
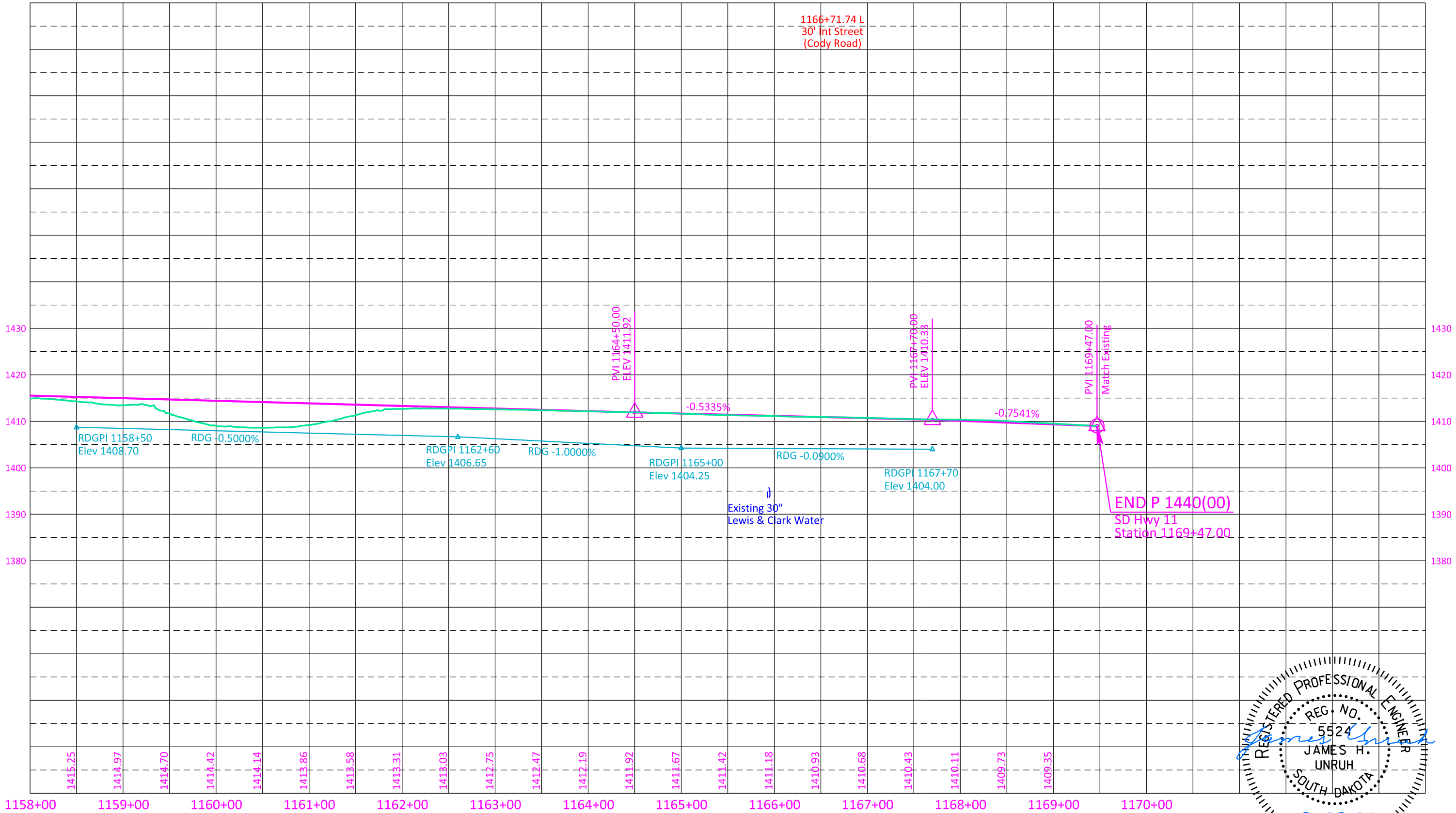
# SD HIGHWAY 11 PROFILE

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B83   | B174            |

FILE: ...\\B82-B83 (Hwy 11 1158+00).dgn  
PLOTING DATE: 08-29-2025

REV DATE:  
INITIAL:

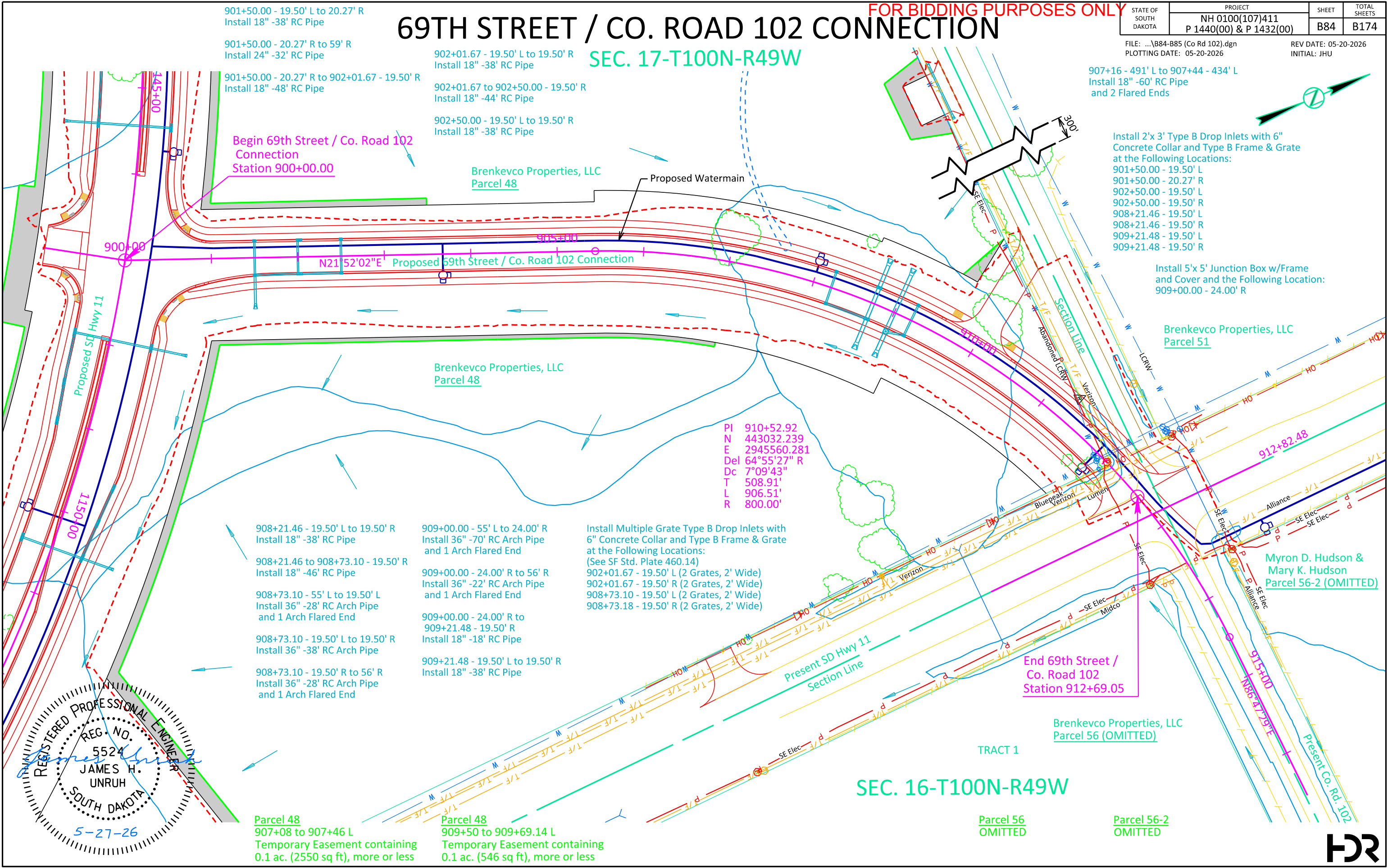


# 69TH STREET / CO. ROAD 102 CONNECTION

## SEC. 17-T100N-R49W

FOR BIDDING PURPOSES ONLY

|                                                                 |                                            |                                      |                 |
|-----------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                     | PROJECT                                    | SHEET                                | TOTAL<br>SHEETS |
|                                                                 | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B84                                  | B174            |
| FILE: ...\\B84-B85 (Co Rd 102).dgn<br>PLOTTING DATE: 05-20-2026 |                                            | REV DATE: 05-20-2026<br>INITIAL: JHU |                 |



901+50.00 - 19.50' L to 20.27' R  
Install 18" -38' RC Pipe

901+50.00 - 20.27' R to 59' R  
Install 24" -32' RC Pipe

901+50.00 - 20.27' R to 902+01.67 - 19.50' R  
Install 18" -48' RC Pipe

902+01.67 - 19.50' L to 19.50' R  
Install 18" -38' RC Pipe

902+01.67 to 902+50.00 - 19.50' R  
Install 18" -44' RC Pipe

902+50.00 - 19.50' L to 19.50' R  
Install 18" -38' RC Pipe

Begin 69th Street / Co. Road 102  
Connection  
Station 900+00.00

Brenkevco Properties, LLC  
Parcel 48

Proposed Watermain

N21°52'02"E Proposed 69th Street / Co. Road 102 Connection

Brenkevco Properties, LLC  
Parcel 48

PI 910+52.92  
N 443032.239  
E 2945560.281  
Del 64°55'27" R  
Dc 7°09'43"  
T 508.91'  
L 906.51'  
R 800.00'

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
902+01.67 - 19.50' L (2 Grates, 2' Wide)  
902+01.67 - 19.50' R (2 Grates, 2' Wide)  
908+73.10 - 19.50' L (2 Grates, 2' Wide)  
908+73.18 - 19.50' R (2 Grates, 2' Wide)

908+21.46 - 19.50' L to 19.50' R  
Install 18" -38' RC Pipe

908+21.46 to 908+73.10 - 19.50' R  
Install 18" -46' RC Pipe

908+73.10 - 55' L to 19.50' L  
Install 36" -28' RC Arch Pipe  
and 1 Arch Flared End

908+73.10 - 19.50' L to 19.50' R  
Install 36" -38' RC Arch Pipe

908+73.10 - 19.50' R to 56' R  
Install 36" -28' RC Arch Pipe  
and 1 Arch Flared End

909+00.00 - 55' L to 24.00' R  
Install 36" -70' RC Arch Pipe  
and 1 Arch Flared End

909+00.00 - 24.00' R to 56' R  
Install 36" -22' RC Arch Pipe  
and 1 Arch Flared End

909+00.00 - 24.00' R to  
909+21.48 - 19.50' R  
Install 18" -18' RC Pipe

909+21.48 - 19.50' L to 19.50' R  
Install 18" -38' RC Pipe

907+16 - 491' L to 907+44 - 434' L  
Install 18" -60' RC Pipe  
and 2 Flared Ends

Install 2'x 3' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:

901+50.00 - 19.50' L  
901+50.00 - 20.27' R  
902+50.00 - 19.50' L  
902+50.00 - 19.50' R  
908+21.46 - 19.50' L  
908+21.46 - 19.50' R  
909+21.48 - 19.50' L  
909+21.48 - 19.50' R

Install 5'x 5' Junction Box w/Frame  
and Cover and the Following Location:  
909+00.00 - 24.00' R

Brenkevco Properties, LLC  
Parcel 51

912+82.48

Myron D. Hudson &  
Mary K. Hudson  
Parcel 56-2 (OMITTED)

End 69th Street /  
Co. Road 102  
Station 912+69.05

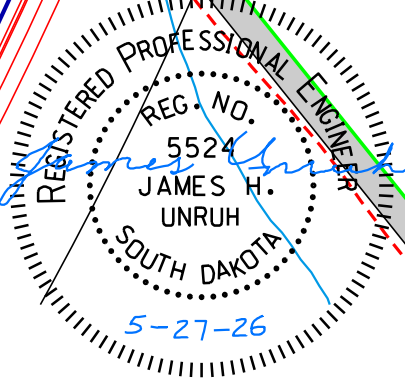
Brenkevco Properties, LLC  
Parcel 56 (OMITTED)

TRACT 1

SEC. 16-T100N-R49W

Parcel 56  
OMITTED

Parcel 56-2  
OMITTED

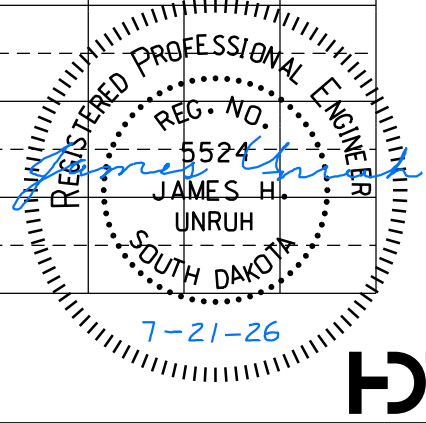
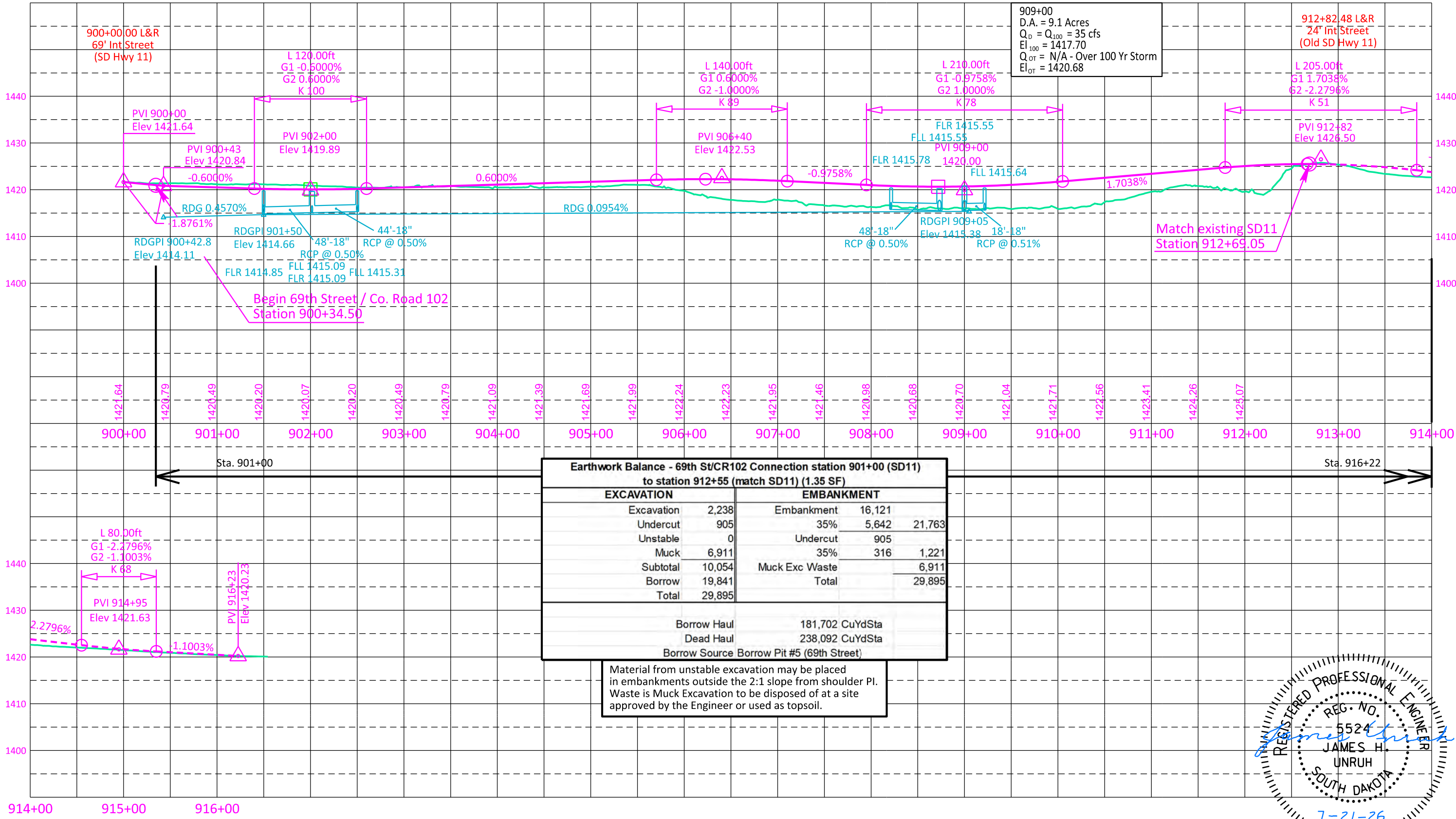




# 69TH STREET / CO. ROAD 102 CONNECTION PROFILE

FOR BIDDING PURPOSES ONLY

|                                                             |                                            |                                      |                 |
|-------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                 | PROJECT                                    | SHEET                                | TOTAL<br>SHEETS |
|                                                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B85                                  | B174            |
| FILE: ...\\B84-B85 (Co Rd 102).dgn<br>PLOT DATE: 07-21-2026 |                                            | REV DATE: 07-21-2026<br>INITIAL: JHU |                 |



Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Location:  
(See SF Std. Plate 460.14)  
57+38.00 - 35.47' R (2 Grates, 4' Wide)

57TH STREET

FOR BIDDING PURPOSES ONLY

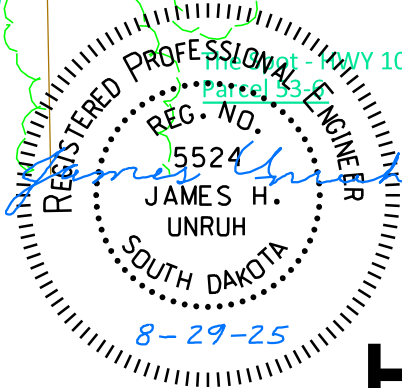
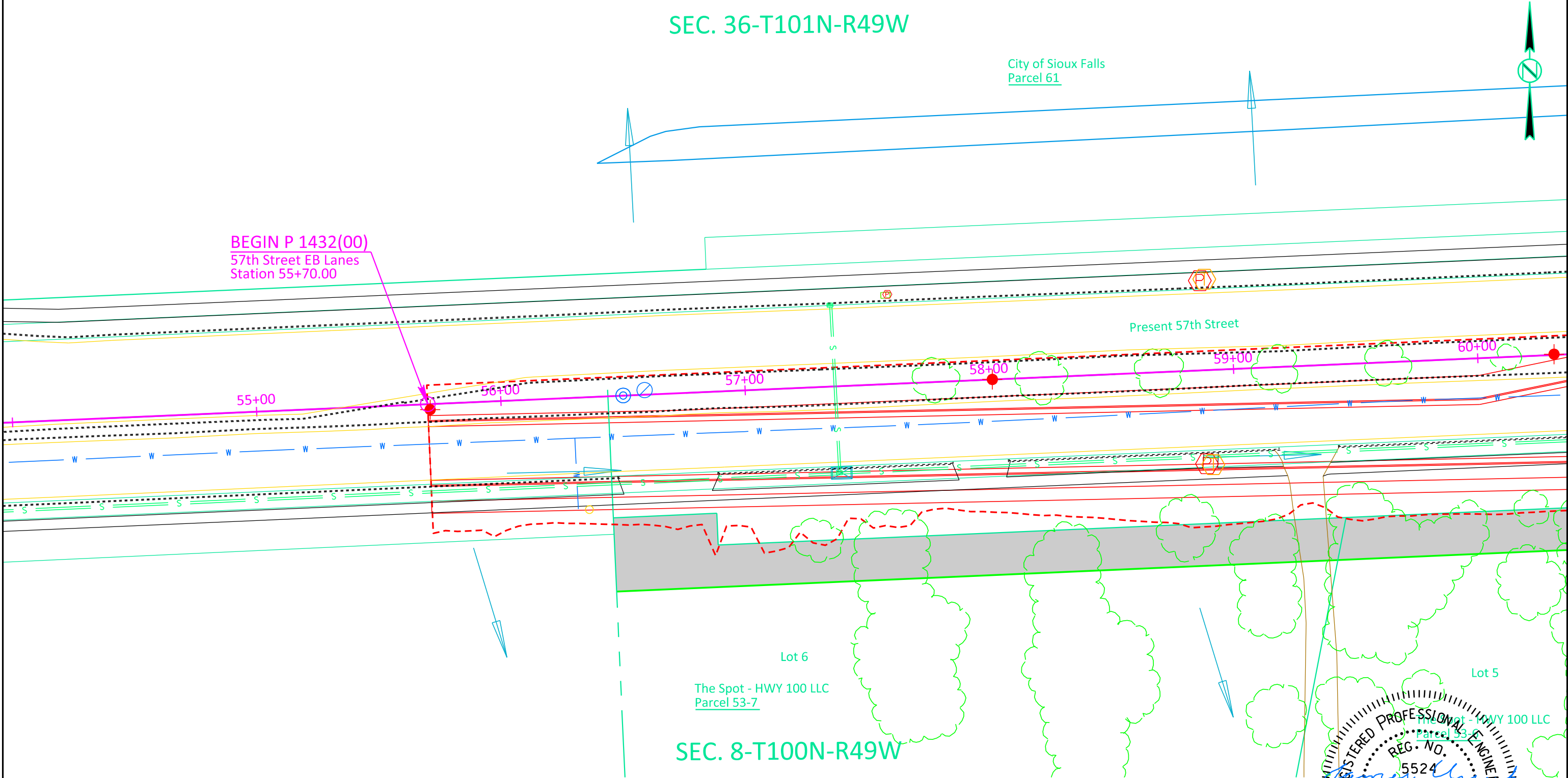
| STATE OF<br>SOUTH<br>DAKOTA                                        | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|--------------------------------------------------------------------|--------------------------------------------|-------|-----------------|
|                                                                    | NH 0100(107)411<br>P 1440(00) & P 1432(00) |       |                 |
| FILE: ...\\B86-B87 (57th St 55+00).dgn<br>PLOTING DATE: 08-29-2025 |                                            | B86   | B174            |
| REV DATE:<br>INITIAL:                                              |                                            |       |                 |

SEC. 36-T101N-R49W

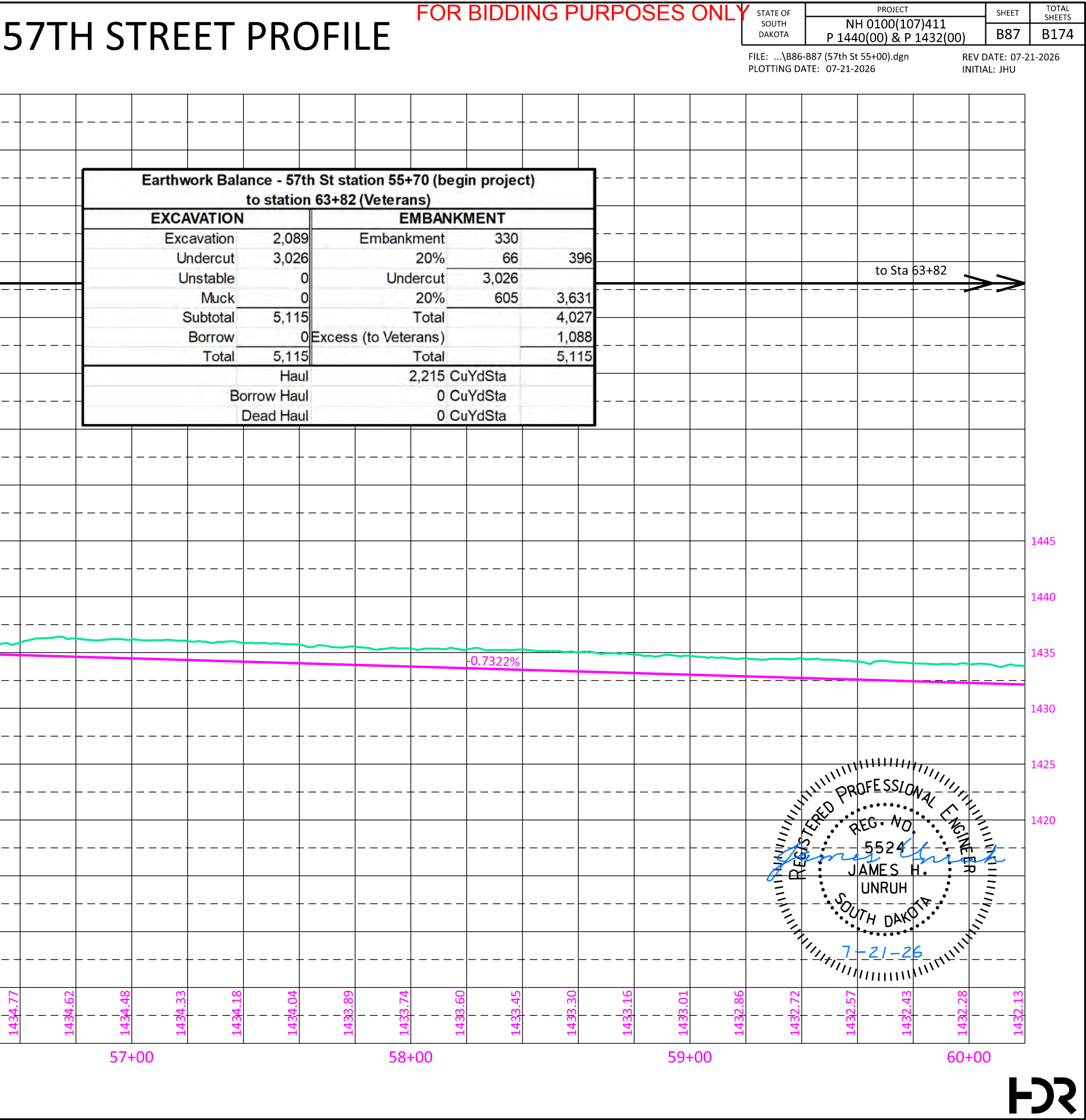
City of Sioux Falls  
Parcel 61



BEGIN P 1432(00)  
57th Street EB Lanes  
Station 55+70.00







57TH STREET

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA            | PROJECT                                    | SHEET                | TOTAL<br>SHEETS |
|----------------------------------------|--------------------------------------------|----------------------|-----------------|
|                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B88                  | B174            |
| FILE: ...\\B88-B89 (57th St 60+00).dgn |                                            | REV DATE: 11-14-2025 |                 |
| PLOT DATE: 11-14-2025                  |                                            | INITIAL: JHU         |                 |

SEC. 36-T101N-R49W

SEC. 31-T101N-R48W

SEC. 8-T100N-R49W

63+10.00 to 63+55.00 - 40.86' L  
Install 18" -40' RC Arch Pipe

63+55.00 - 40.86' L to 63+96.85 - 43.48' L  
Install 18" -38' RC Arch Pipe

63+96.85 - 43.48' L to 64+00.00 - 35.00' R  
Install 18" -76' RC Arch Pipe

Install 3'x 4' Type B Drop Inlets with 6"  
Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
63+10.00 - 40.86' L  
63+10.00 - 56.13' R  
63+96.85 - 43.48' L  
64+00.00 - 56.13' R

City of Sioux Falls  
Parcel 61

Begin 57th Street WB Lanes  
Station 62+21.66

Present 57th Street

Lot 5

The Bend LLC  
Parcel 53-6

City of Sioux Falls  
Parcel 53

Proposed Veterans Parkway

MidAmerican

SUE#19

SUE#20

61+82.00 to 61+87.00 - 35.00' R  
Install 18" -4' RC Pipe

61+87.00 - 35.00 R to 53.00' R  
Install 18" -16' RC Pipe

61+87.00 to 61+92.00 - 35.00' R  
Install 24" -4' RC Pipe

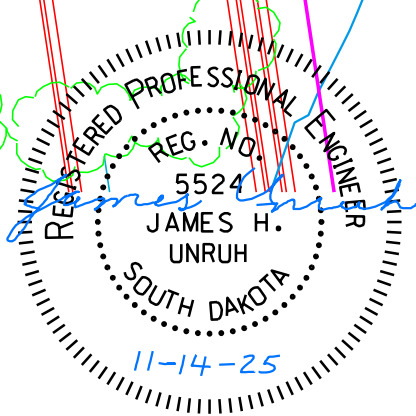
63+10.00 to 63+55.00 - 56.13' R  
Install 18" -40' RC Arch Pipe

63+55.00 to 64+00.00 - 56.13' R  
Install 18" -40' RC Arch Pipe

64+00.00 - 35.00' R to 56.13' R  
Install 18" -18' RC Arch Pipe

Install Multiple Grate Type B Drop Inlets with  
6" Concrete Collar and Type B Frame & Grate  
at the Following Locations:  
(See SF Std. Plate 460.14)  
61+85.31 - 52.83' R (2 Grates, 2' Wide)  
63+55.00 - 40.86' L (2 Grates, 3' Wide)  
63+55.00 - 56.13' R (2 Grates, 3' Wide)

Install 5'x 5' Junction Box w/Frame  
and Cover and the Following Locations:  
61+87.00 - 33.85' R  
64+00.00 - 34.50' R

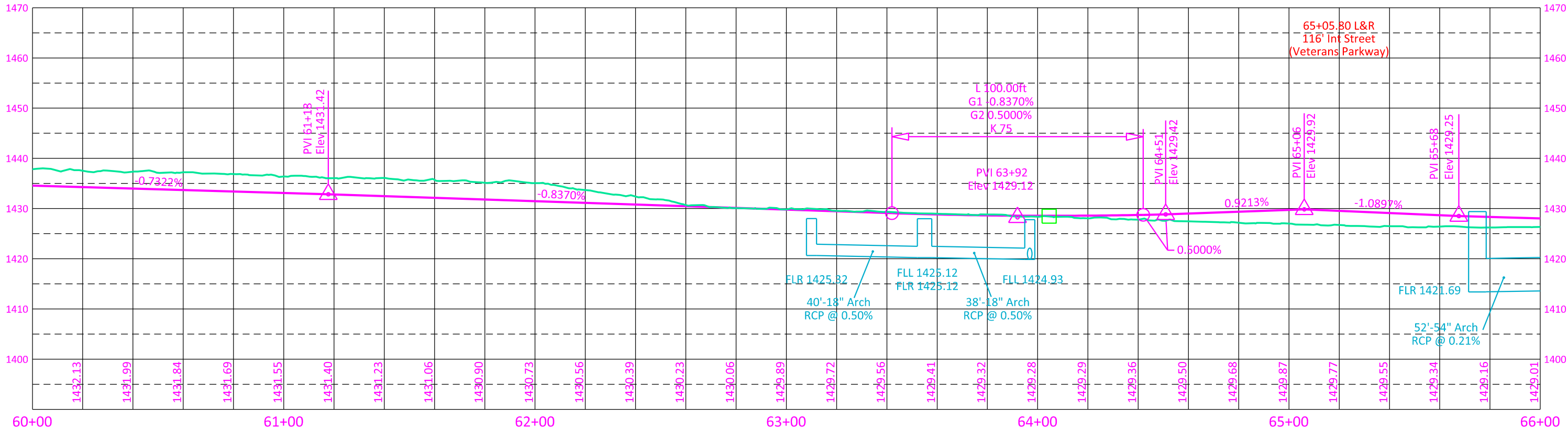




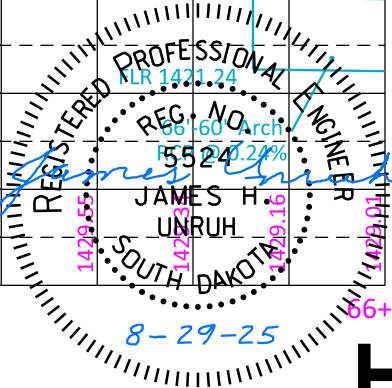
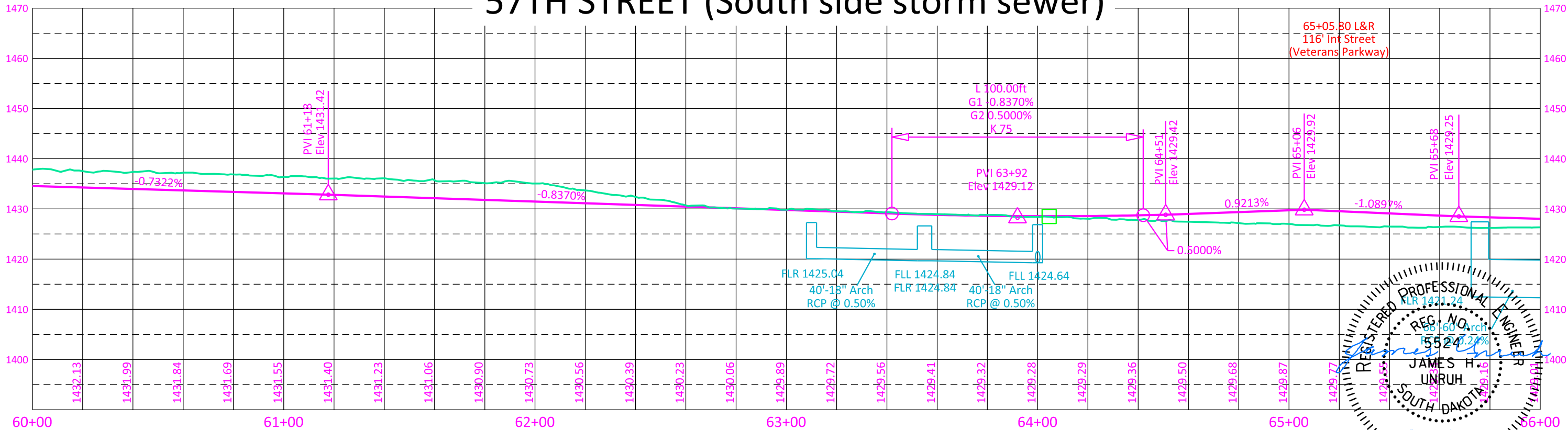
57TH STREET (North side storm sewer)

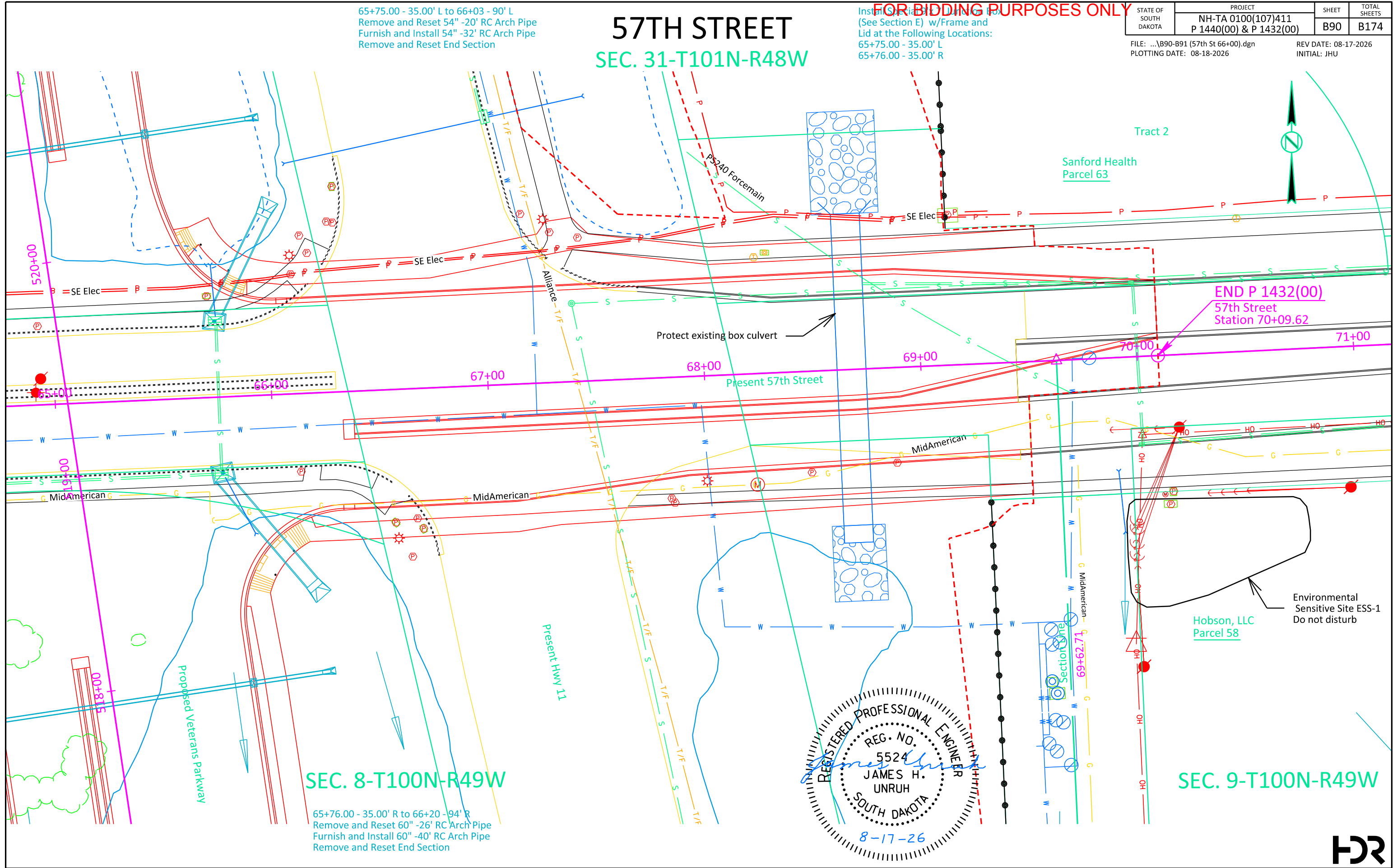
FOR BIDDING PURPOSES ONLY

|                                        |                                            |                       |                 |
|----------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B89                   | B174            |
| FILE: ...\\B88-B89 (57th St 60+00).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOT DATE: 08-29-2025                  |                                            |                       |                 |



57TH STREET (South side storm sewer)







57TH STREET (North side storm sewer)

FOR BIDDING PURPOSES ONLY

STATE OF  
SOUTH  
DAKOTA

PROJECT  
NH 0100(107)411  
P 1440(00) & P 1432(00)

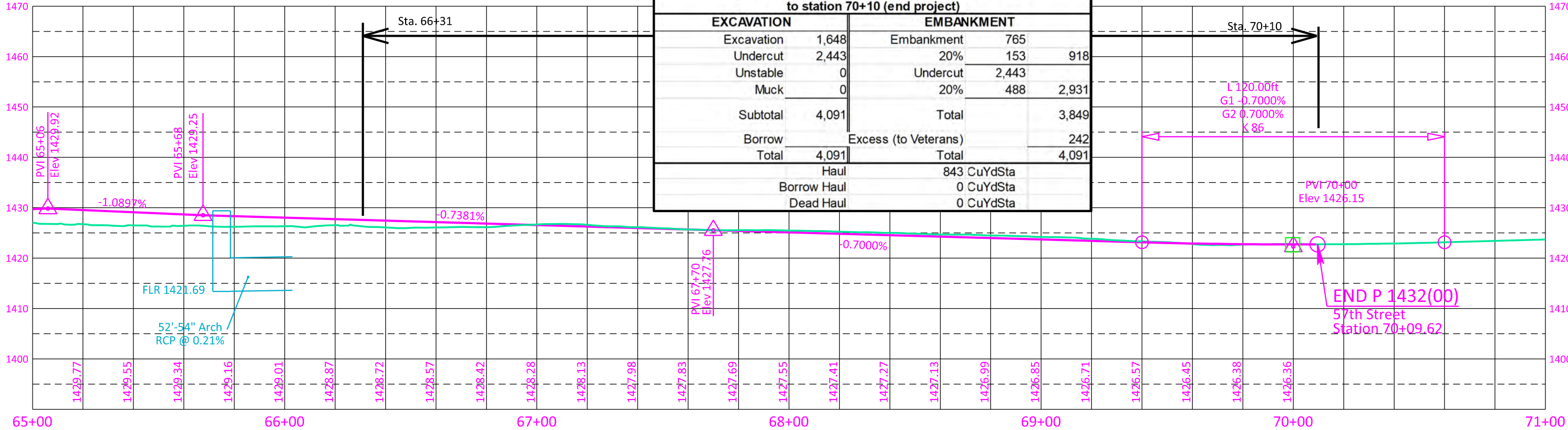
SHEET  
B91

TOTAL  
SHEETS  
B174

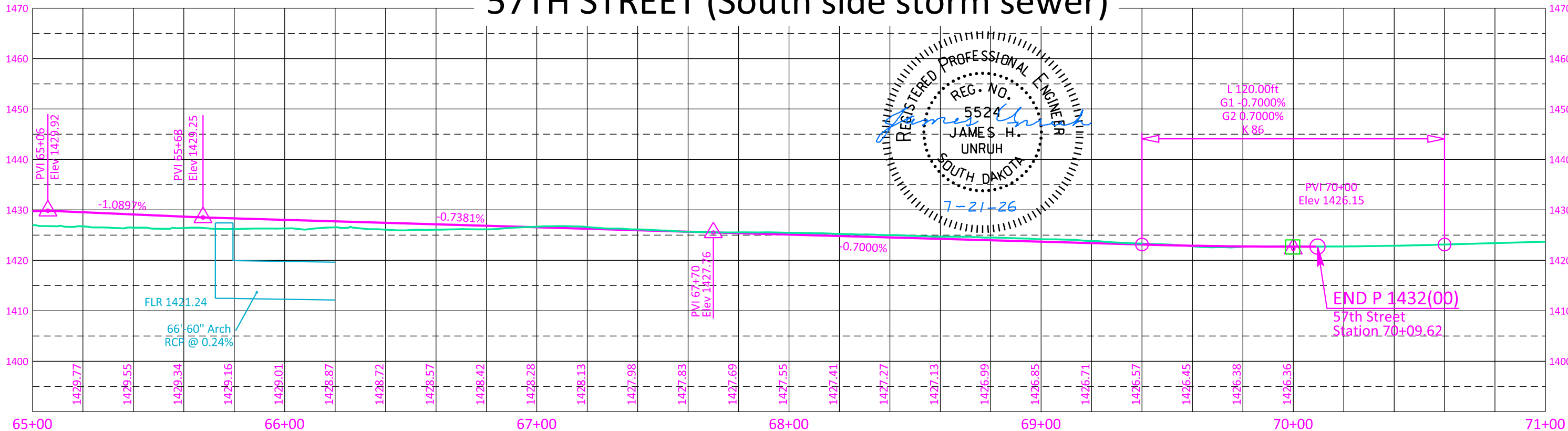
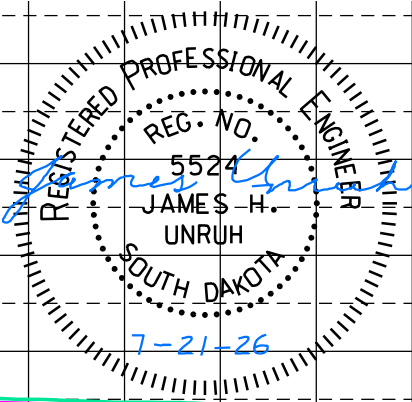
FILE: ...\\B90-B91 (57th St 66+00).dgn  
PLOT DATE: 07-21-2026

REV DATE: 07-21-2026  
INITIAL: JHU

| Earthwork Balance - 57th St station 66+31 (Veterans)<br>to station 70+10 (end project) |       |                      |           |
|----------------------------------------------------------------------------------------|-------|----------------------|-----------|
| EXCAVATION                                                                             |       | EMBANKMENT           |           |
| Excavation                                                                             | 1,648 | Embankment           | 765       |
| Undercut                                                                               | 2,443 | 20%                  | 153 918   |
| Unstable                                                                               | 0     | Undercut             | 2,443     |
| Muck                                                                                   | 0     | 20%                  | 488 2,931 |
| Subtotal                                                                               | 4,091 | Total                | 3,849     |
| Borrow                                                                                 |       | Excess (to Veterans) | 242       |
| Total                                                                                  | 4,091 | Total                | 4,091     |
| Haul                                                                                   |       | 843 CuYdSta          |           |
| Borrow Haul                                                                            |       | 0 CuYdSta            |           |
| Dead Haul                                                                              |       | 0 CuYdSta            |           |



57TH STREET (South side storm sewer)



# VETERANS PARKWAY REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B92   | B174            |

FILE: ...\\Section B\\B92 REM (510+00).dgn  
PLOTING DATE: 08-28-2025

REV DATE:  
INITIAL:

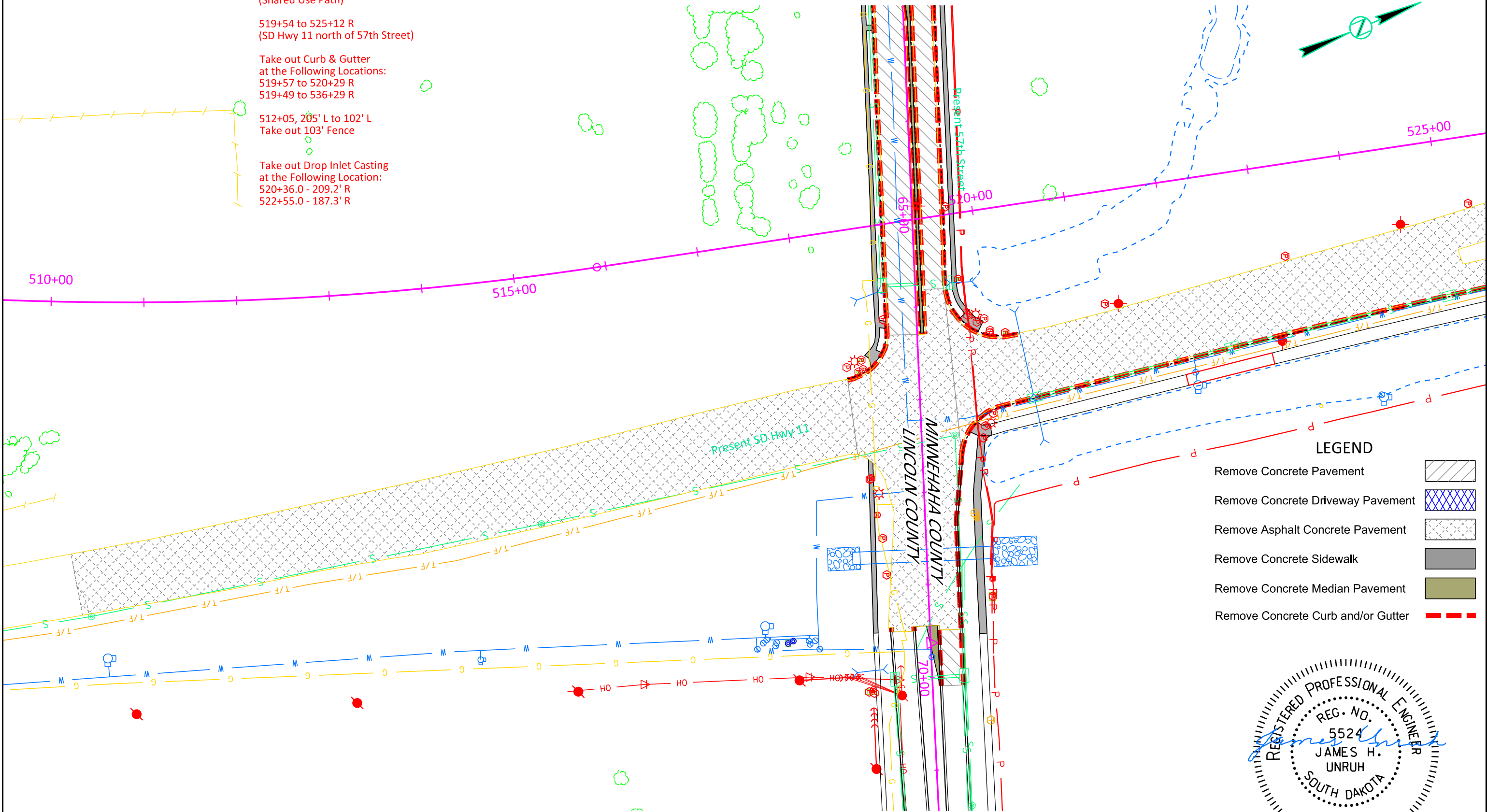
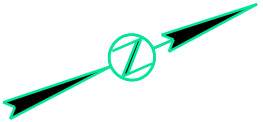
Take out Asphalt Pavement  
at the Following Location:  
510+25 to 518+40 R  
(SD Hwy 11 south of 57th Street)  
522+02 to 522+97 R  
(Shared Use Path)

519+54 to 525+12 R  
(SD Hwy 11 north of 57th Street)

Take out Curb & Gutter  
at the Following Locations:  
519+57 to 520+29 R  
519+49 to 536+29 R

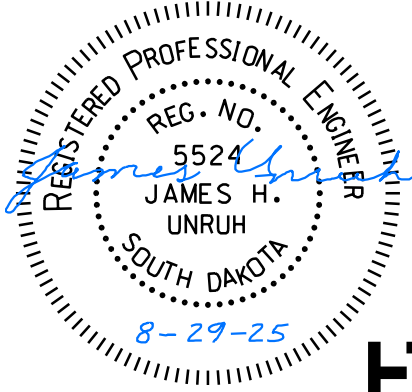
512+05, 205' L to 102' L  
Take out 103' Fence

Take out Drop Inlet Casting  
at the Following Location:  
520+36.0 - 209.2' R  
522+55.0 - 187.3' R



## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter





# VETERANS PARKWAY REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

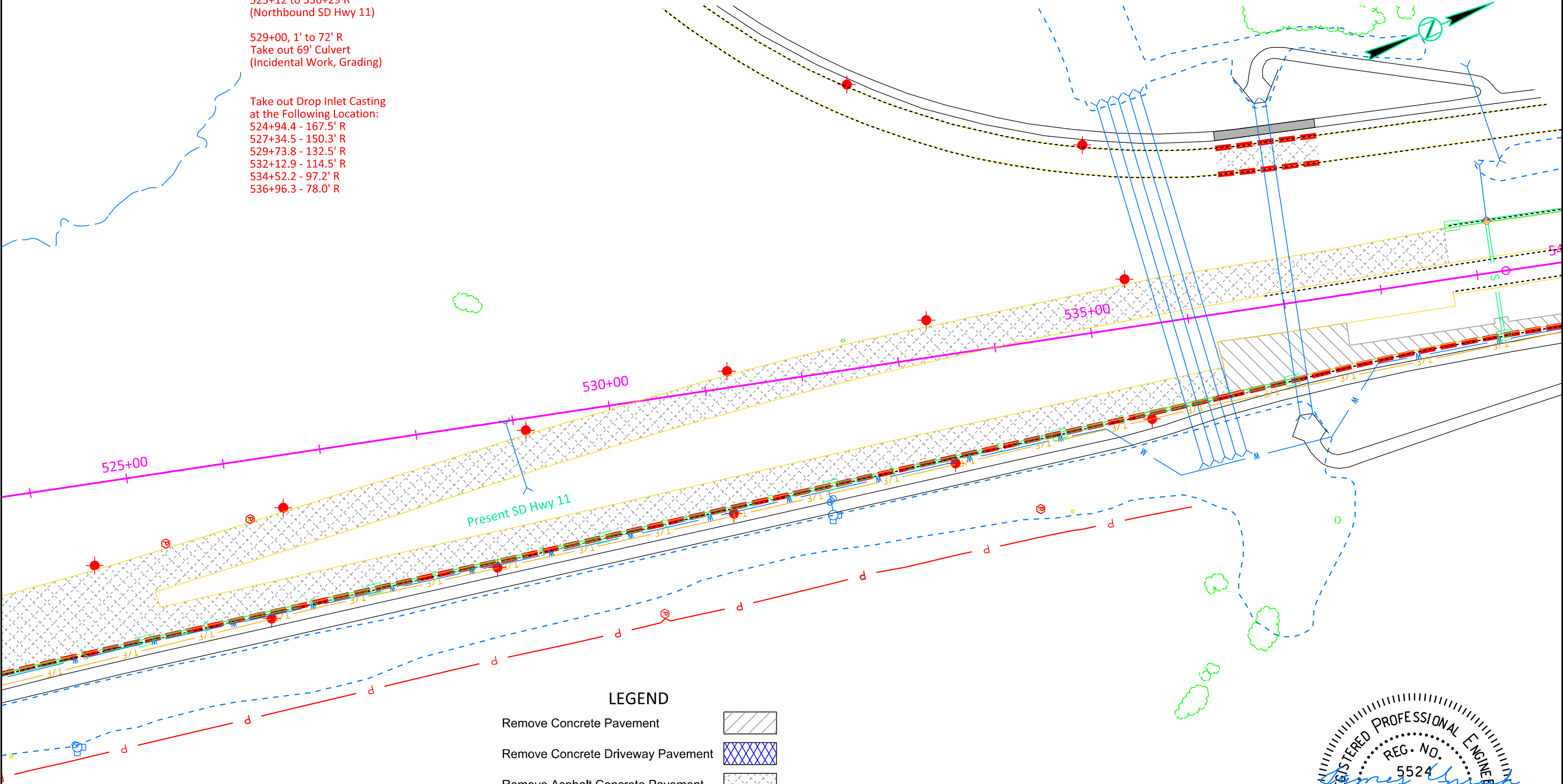
| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B93                   | B174            |
| FILE: ...\\Section B\\B93 REM (525+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

Take out Asphalt Pavement  
at the Following Location:  
525+12 to 538+73 R/L  
(Southbound SD Hwy 11)

525+12 to 536+29 R  
(Northbound SD Hwy 11)

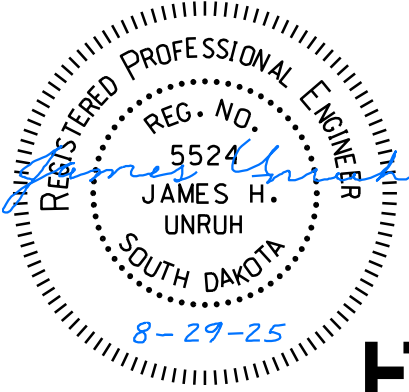
529+00, 1' to 72' R  
Take out 69' Culvert  
(Incidental Work, Grading)

Take out Drop Inlet Casting  
at the Following Location:  
524+94.4 - 167.5' R  
527+34.5 - 150.3' R  
529+73.8 - 132.5' R  
532+12.9 - 114.5' R  
534+52.2 - 97.2' R  
536+96.3 - 78.0' R



## LEGEND

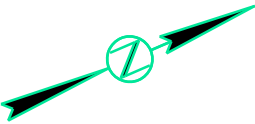
- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter



# VETERANS PARKWAY REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                        |                                            |                       |                 |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B94                   | B174            |
| FILE: ...\\Section B\\B94 REM (535+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



Take out Asphalt Pavement  
at the Following Location:  
536+54, 155' L to 537+58, 152' L  
536+54, 96' R to 537+61, 86' R

Take out Concrete Sidewalk  
at the Following Location:  
536+54, 181' L to 537+58, 179' L

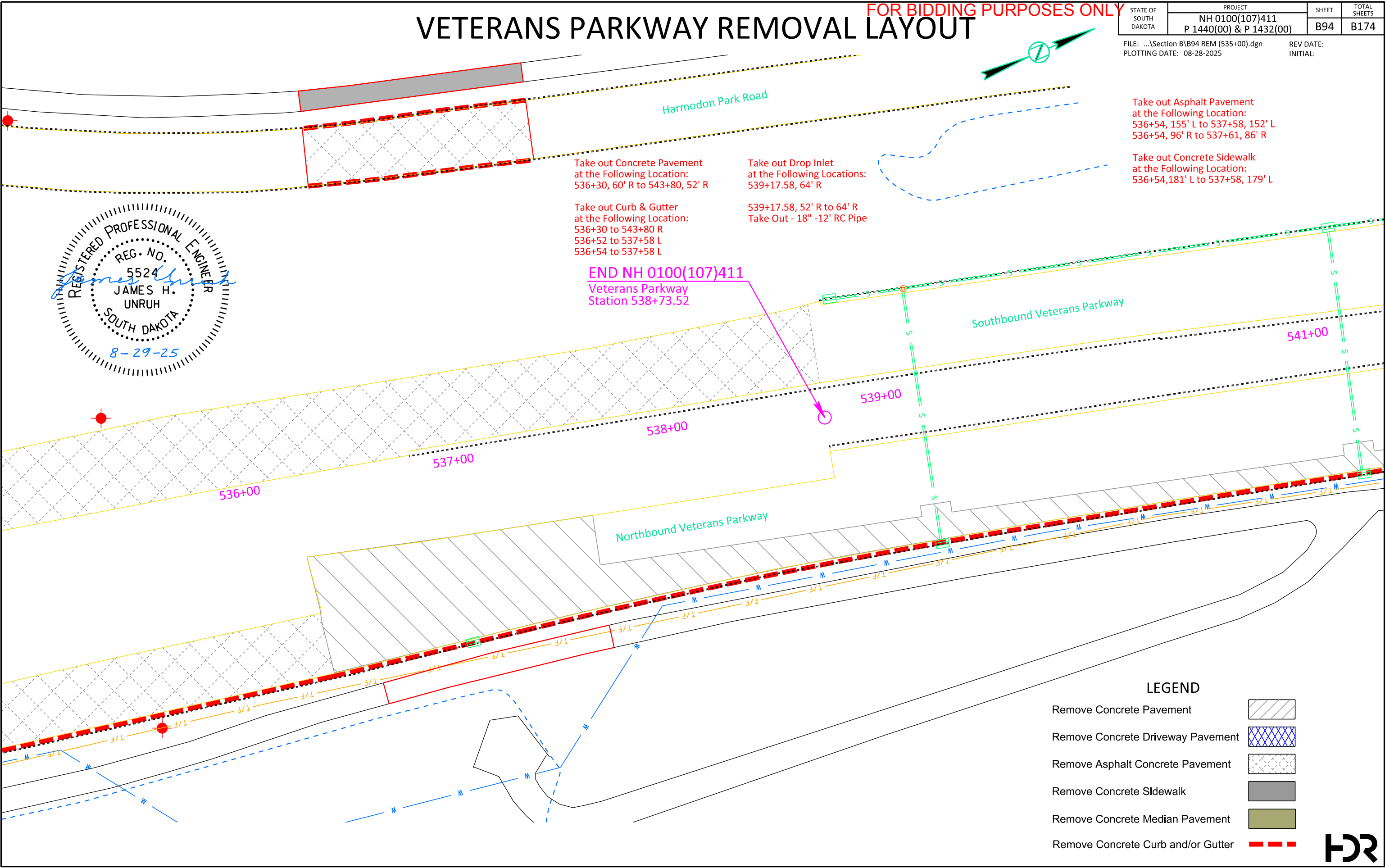
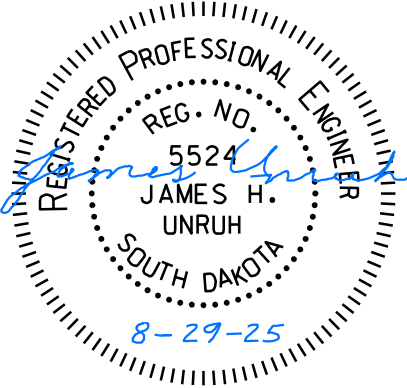
Take out Concrete Pavement  
at the Following Location:  
536+30, 60' R to 543+80, 52' R

Take out Drop Inlet  
at the Following Locations:  
539+17.58, 64' R

Take out Curb & Gutter  
at the Following Location:  
536+30 to 543+80 R  
536+52 to 537+58 L  
536+54 to 537+58 L

539+17.58, 52' R to 64' R  
Take Out - 18" -12' RC Pipe

END NH 0100(107)411  
Veterans Parkway  
Station 538+73.52



## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter





# VETERANS PARKWAY REMOVAL LAYOUT

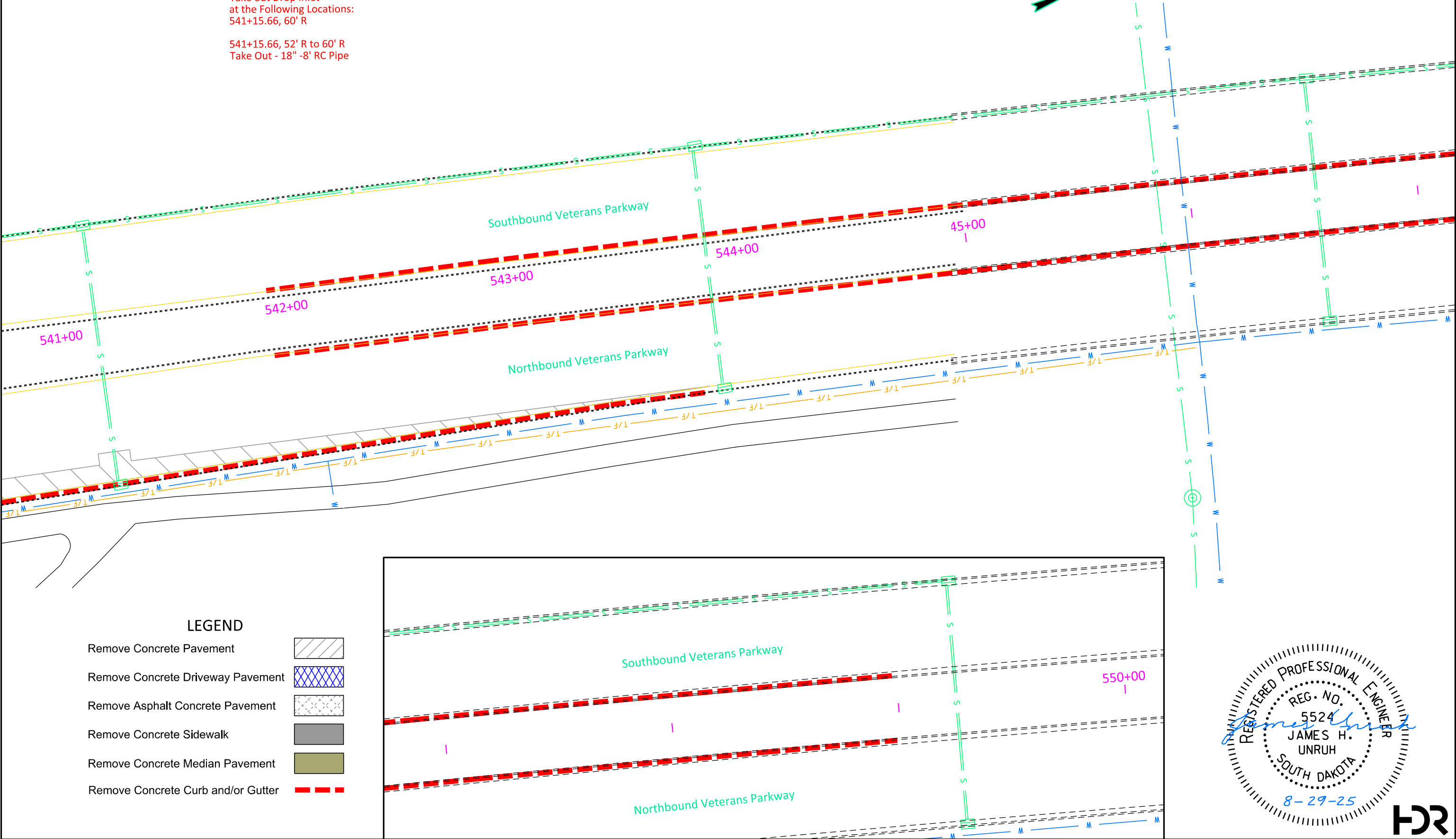
FOR BIDDING PURPOSES ONLY

Take out Curb & Gutter  
at the Following Location:  
541+92 to 548+98 L  
541+92 to 548+98 R

Take out Drop Inlet  
at the Following Locations:  
541+15.66, 60' R

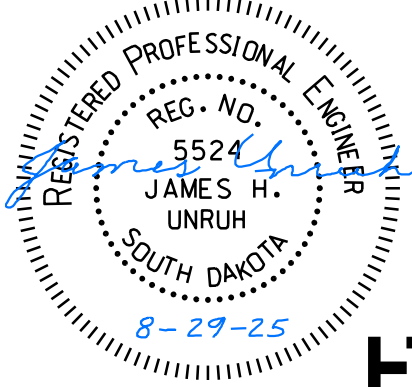
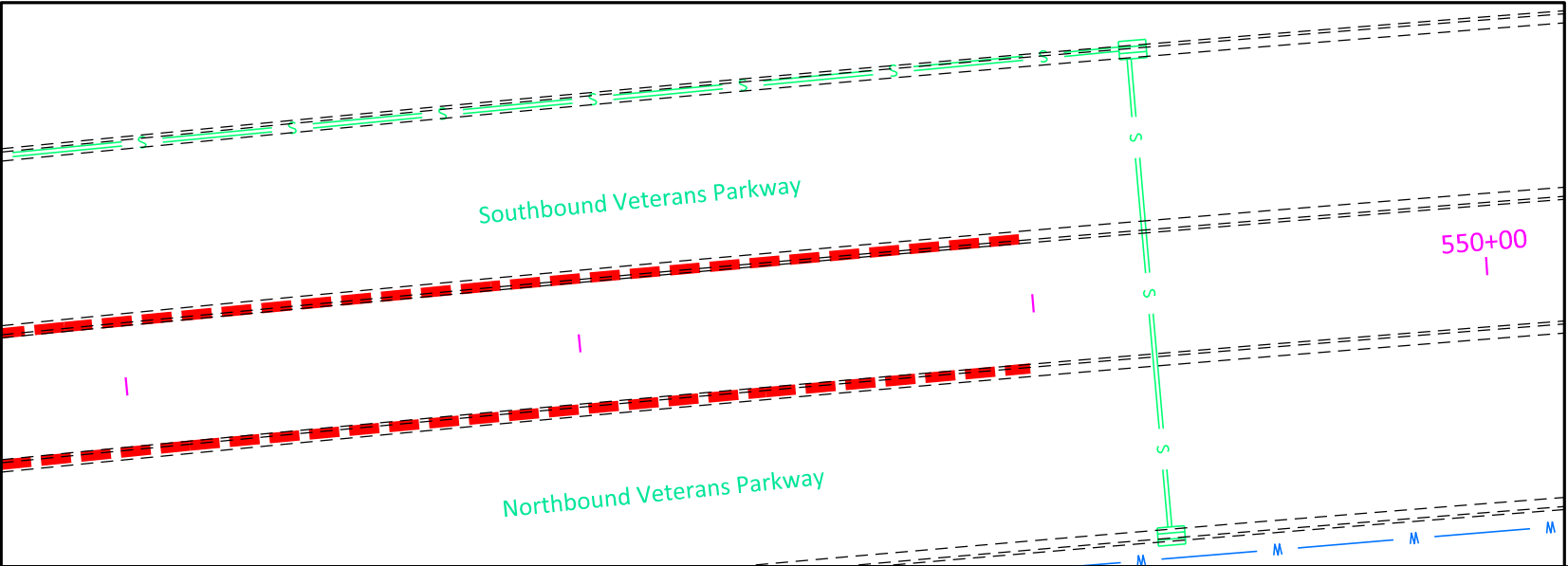
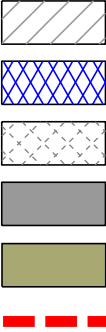
541+15.66, 52' R to 60' R  
Take Out - 18" -8' RC Pipe

|                                                                        |                                            |                       |                 |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B95                   | B174            |
| FILE: ...\\Section B\\B95 REM (541+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter



FOR BIDDING PURPOSES ONLY

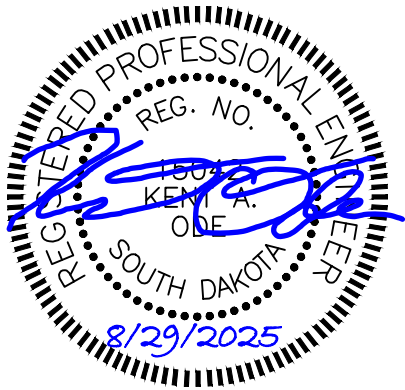
FILE: PLAN\_REMOVALS\_CIP\_8.9  
PLOTING DATE: 8/26/2025



1109+66, 27' L to 1110+29, 27' L  
Take Out 12" - 63' CM Pipe  
(Incidental Work, Grading)

**BEGIN 1440 P (00)**  
69th Street  
Station 1109+49.89

## Present 69th Street





# 69TH STREET REMOVALS

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B97   | B174            |

FILE: PLAN\_REMOVALS\_CIP\_8.9  
PLOT DATE: 8/26/2025

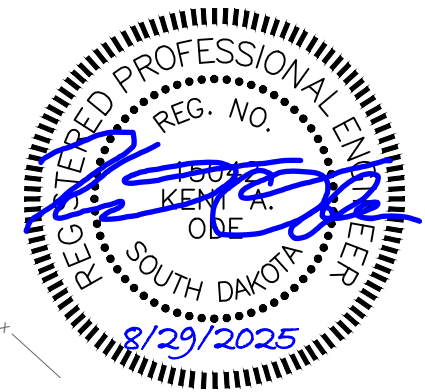
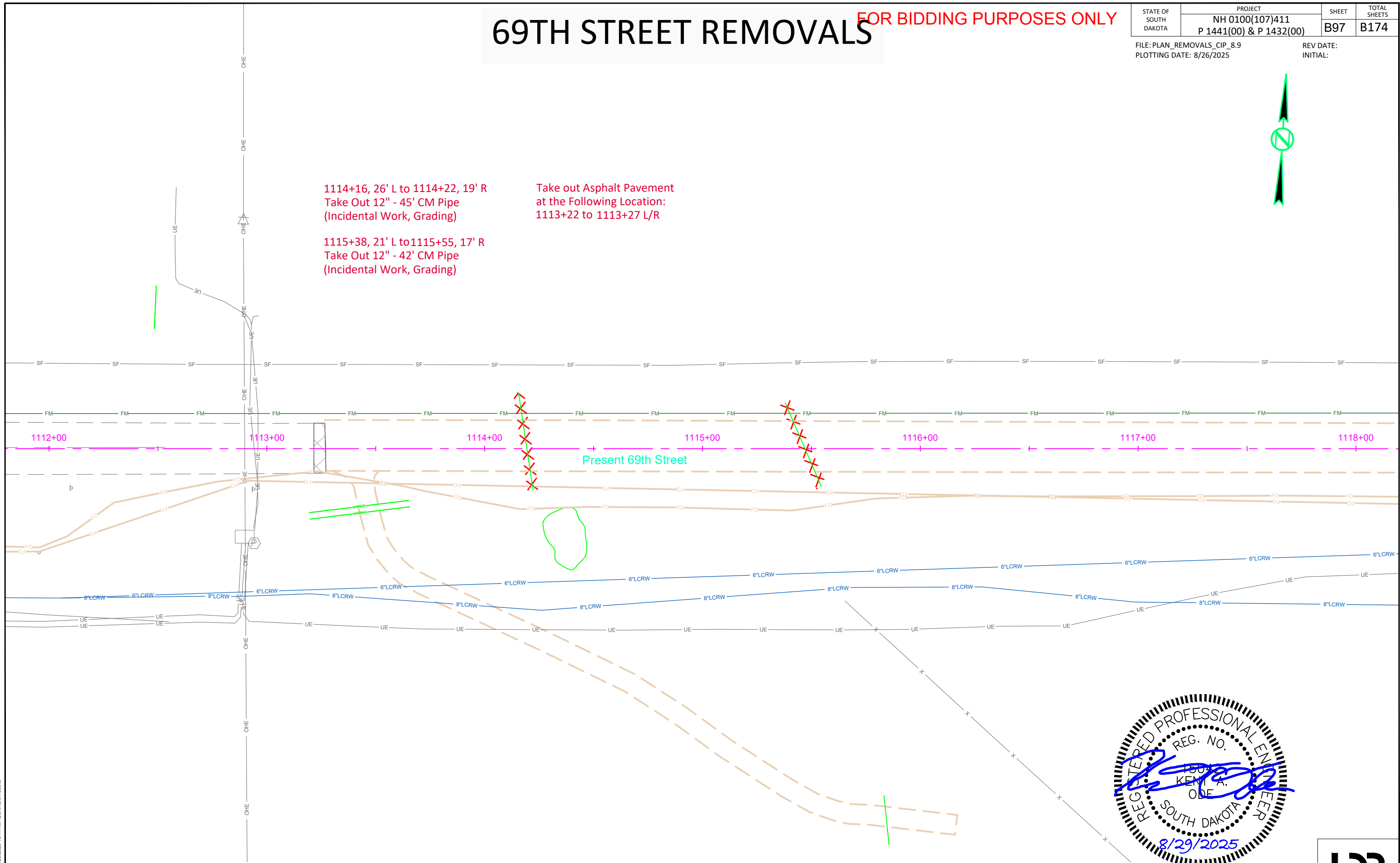
REV DATE:  
INITIAL:



1114+16, 26' L to 1114+22, 19' R  
Take Out 12" - 45' CM Pipe  
(Incidental Work, Grading)

1115+38, 21' L to 1115+55, 17' R  
Take Out 12" - 42' CM Pipe  
(Incidental Work, Grading)

Take out Asphalt Pavement  
at the Following Location:  
1113+22 to 1113+27 L/R



# SD HIGHWAY 11 REMOVAL SHEET

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA             | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|-----------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                         | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B98                   | B174            |
| FILE: ...\\B98 REM (Hwy 11 1152+00).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOT DATE: 08-28-2025                   |                                            |                       |                 |

1162+98 to 1163+46 - R  
Take Out 46' -18" CM Pipe  
and 2 End Sections  
(Incidental Work, Grading)

1166+31 to 1167+05 - L  
Take Out 74' -18" CM Pipe  
and 2 End Sections  
(Incidental Work, Grading)

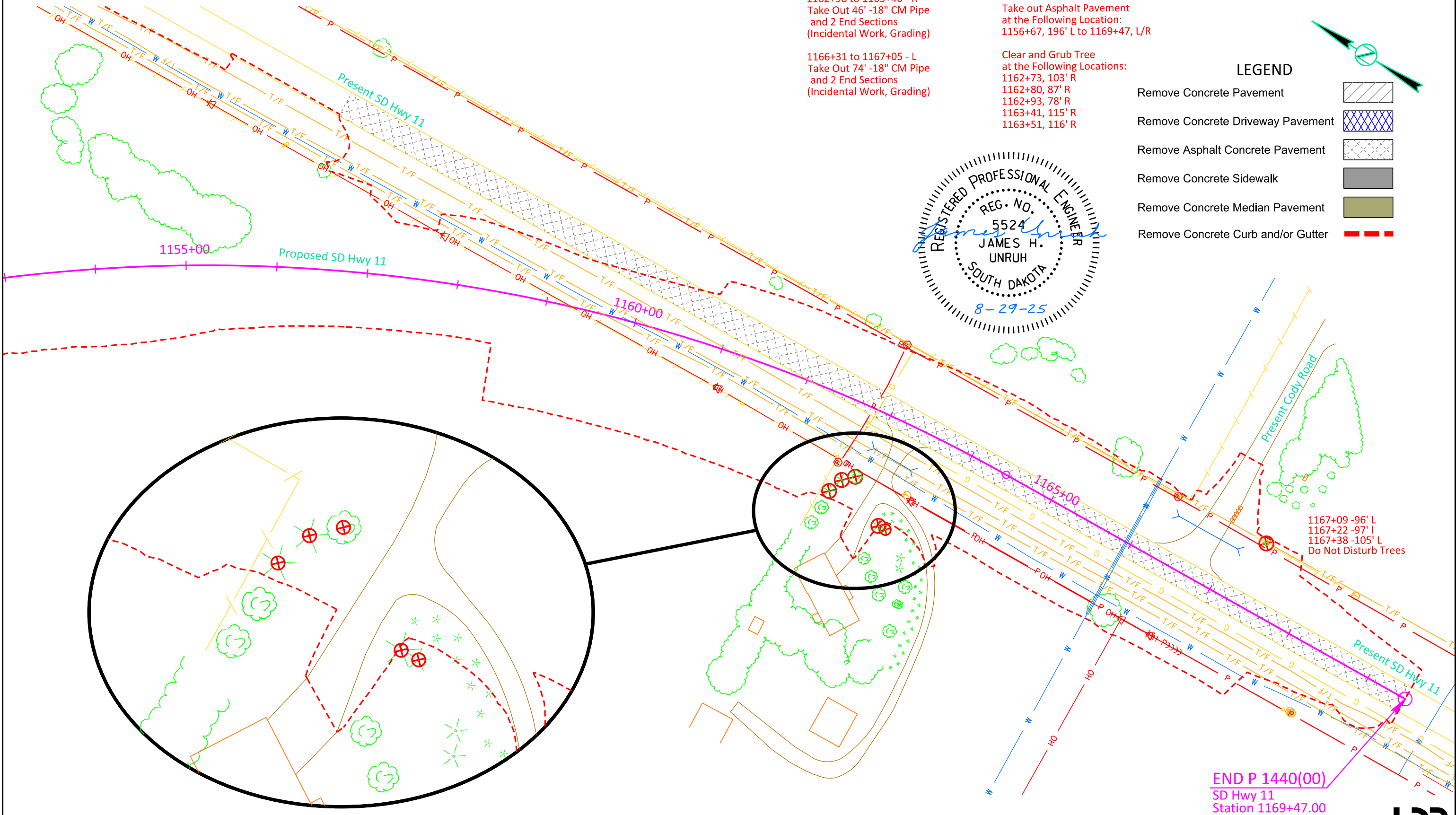
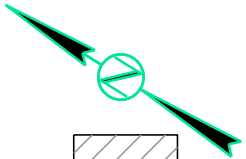
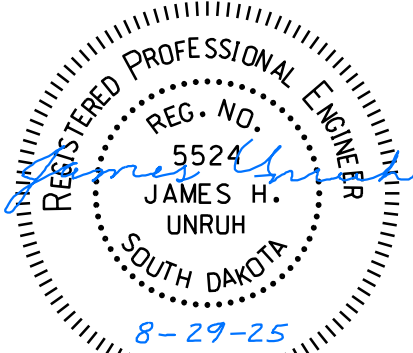
1156+67, 196' L to 1161+50, 0' L/R  
Obliterate Old Road  
(Present SD Hwy 11)

Take out Asphalt Pavement  
at the Following Location:  
1156+67, 196' L to 1169+47, L/R

Clear and Grub Tree  
at the Following Locations:  
1162+73, 103' R  
1162+80, 87' R  
1162+93, 78' R  
1163+41, 115' R  
1163+51, 116' R

## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter



1167+09 -96' L  
1167+22 -97' L  
1167+38 -105' L  
Do Not Disturb Trees

END P 1440(00)  
SD Hwy 11  
Station 1169+47.00





# SD HIGHWAY 11 REMOVAL SHEET

FOR BIDDING PURPOSES ONLY

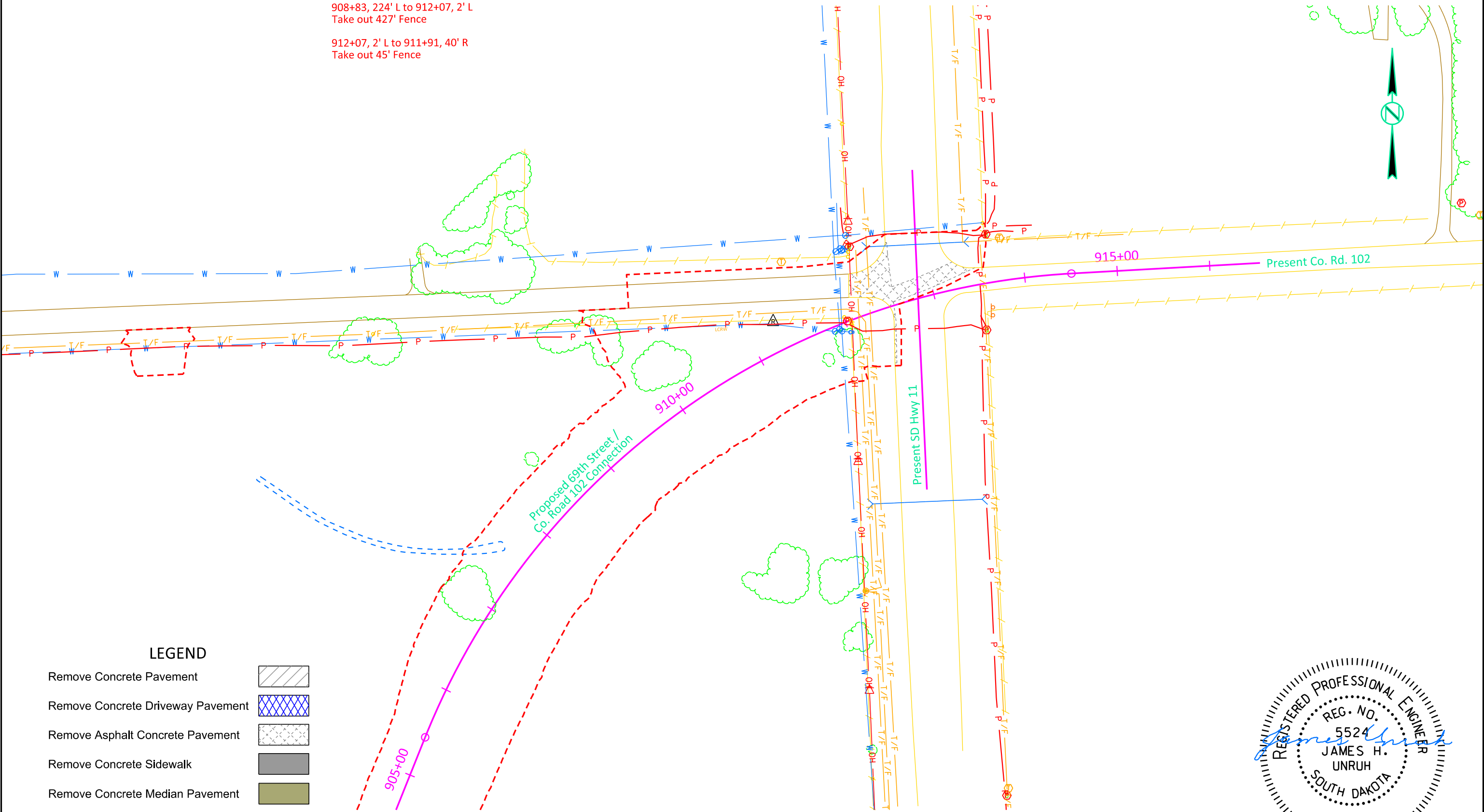
910+16 to 912+56 L/R  
Obliterate Old Road  
(Co. Rd. 102 & SD Hwy 11)

908+83, 224' L to 912+07, 2' L  
Take out 427' Fence

912+07, 2' L to 911+91, 40' R  
Take out 45' Fence

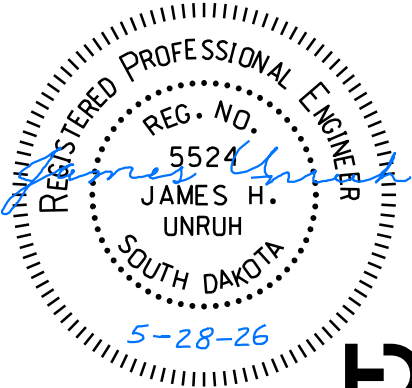
Take out Asphalt Pavement  
at the Following Location:  
912+13 to 913+49, L/R

| STATE OF<br>SOUTH<br>DAKOTA                                        | PROJECT                                    | SHEET                                | TOTAL<br>SHEETS |
|--------------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------|
|                                                                    | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B99                                  | B174            |
| FILE: ...\\B99 REM (Connection Rd).dgn<br>PLOTING DATE: 05-28-2026 |                                            | REV DATE: 03-18-2026<br>INITIAL: JHU |                 |



## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter



Take out Concrete Pavement  
at the Following Location:  
55+70 to 66+30 R

Take out Drop Inlet  
at the Following Location:  
57+39, 35' R

Take out Concrete Sidewalk  
at the Following Location:  
55+70 to 66+65 R

Take out Concrete Splash Guard  
at the Following Location  
(Incidental to Take out Curb & Gutter):  
55+70 to 62+61 R

Take out Curb & Gutter  
at the Following Locations:  
55+70 to 66+30 R  
55+70 to 56+46 R  
56+87 to 57+83 R  
58+06 to 59+15 R  
59+42 to 66+75 R

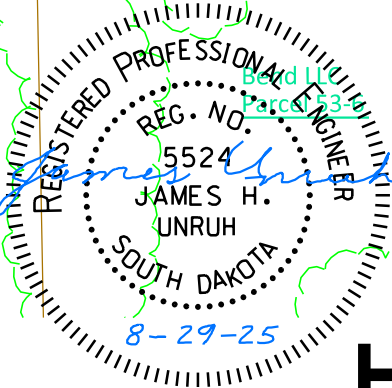
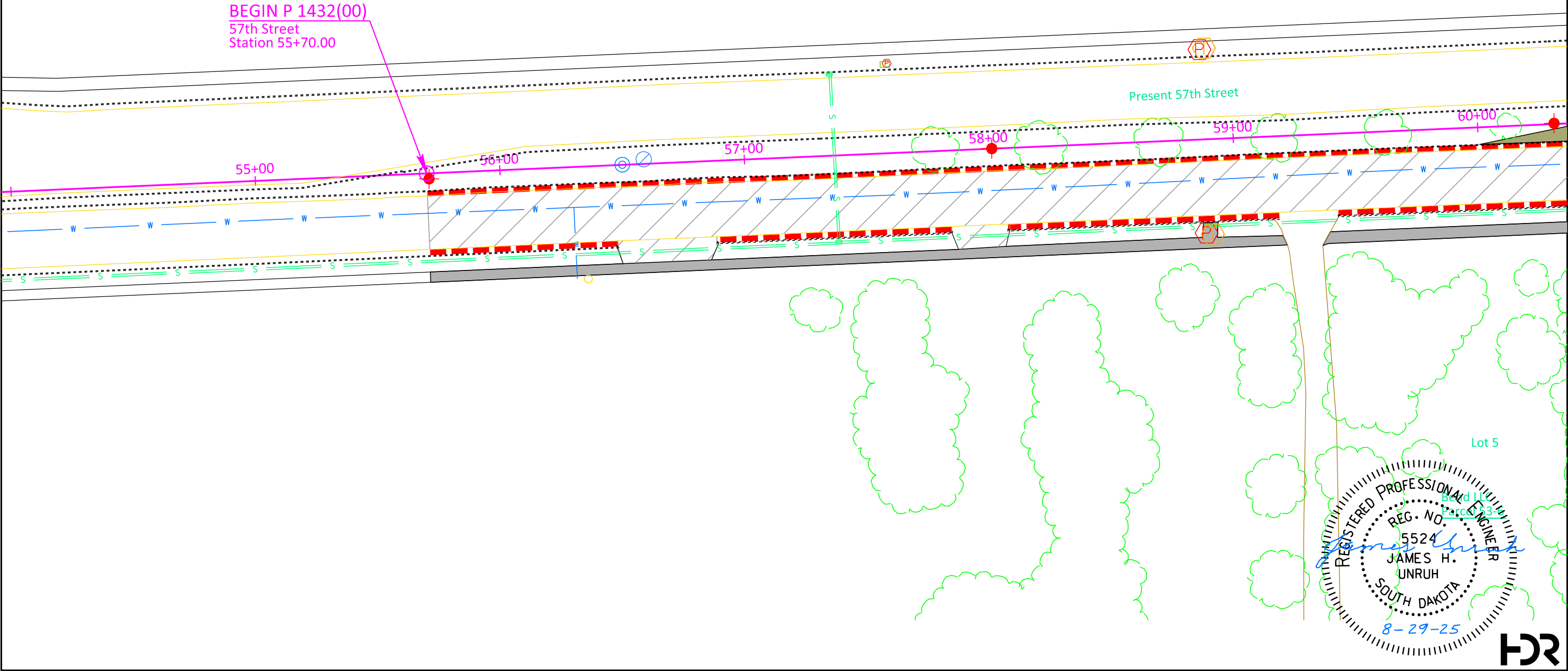
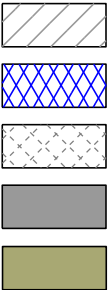
# 57TH STREET REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                     |                                            |                       |                 |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B100                  | B174            |
| FILE: ...\\B100 REM (57th St 55+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter





# 57TH STREET REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

Take out Drop Inlets  
at the Following Locations:  
61+90, 35' R  
65+76, 34' L  
65+82, 37' R

Take out Concrete Pavement  
at the Following Location:  
62+21 to 65+82 L

Take out Concrete Median  
at the Following Locations:  
60+00 to 66+28 L

65+76 to 65+90 R  
Take Out - 30' RC Pipe  
Take Out End Section  
(Incidental Work, Grading)

65+74 to 65+76 L  
Take Out 24' RC Pipe  
Take Out End Section  
(Incidental Work, Grading)

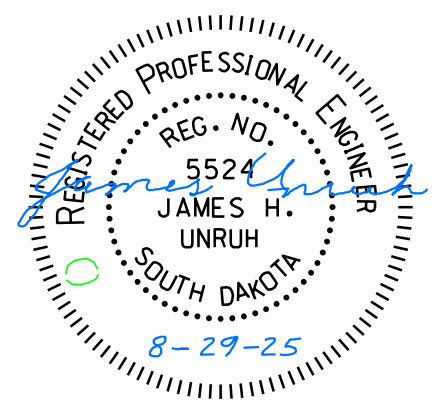
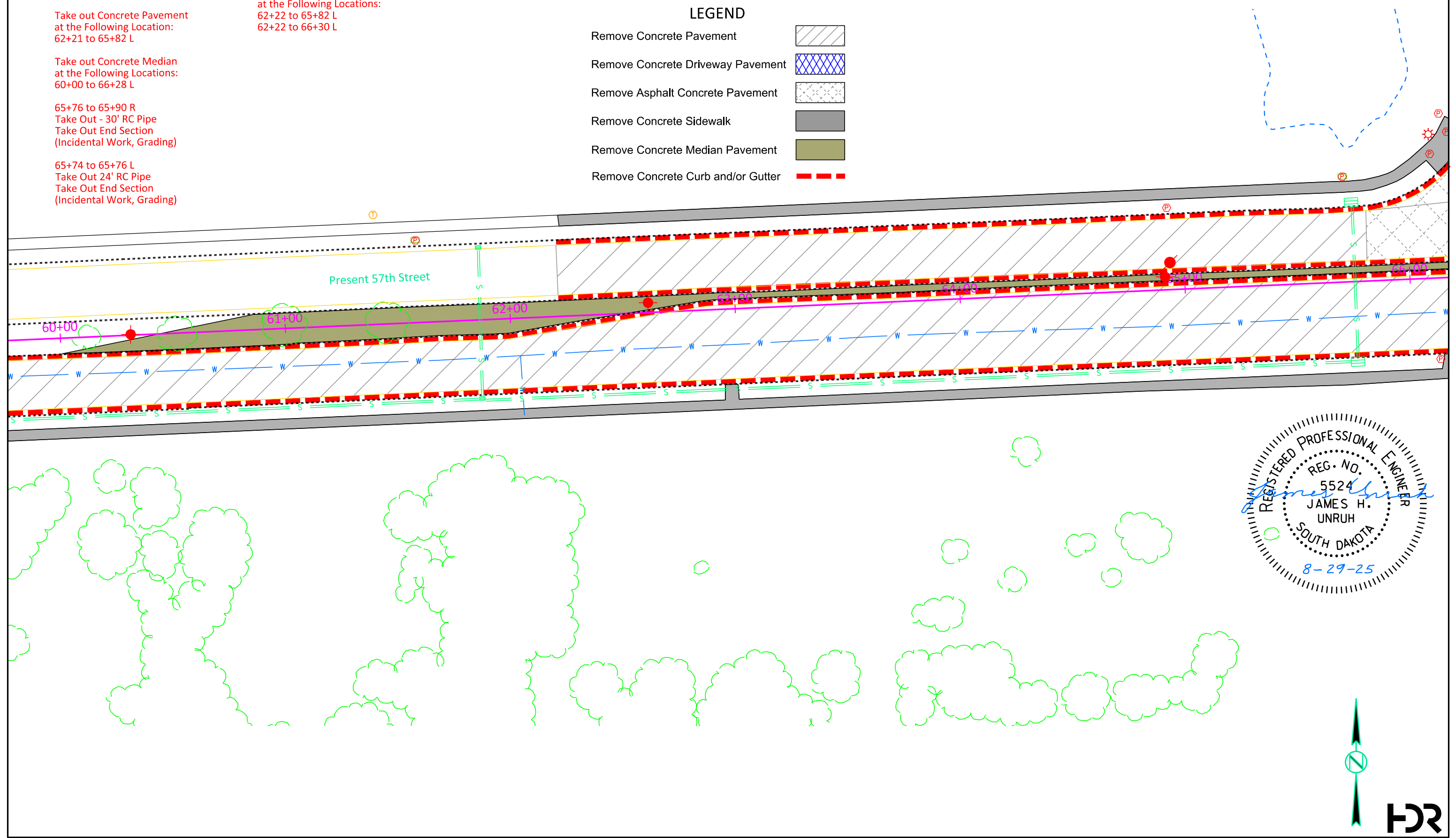
Take out Concrete Sidewalk  
at the Following Location:  
62+23 to 66+29 L

Take out Curb & Gutter  
at the Following Locations:  
62+22 to 65+82 L  
62+22 to 66+30 L

## LEGEND

- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter

|                                                                     |                                            |                       |                 |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B101                  | B174            |
| FILE: ...\\B101 REM (57th St 60+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



Take out Concrete Pavement  
at the Following Location:  
69+49 to 70+10 L

Take out Concrete Median  
at the Following Location:  
69+44 to 70+10 L/R

Take out Curb & Gutter  
at the Following Locations:  
67+56 to 70+10 L  
69+44 to 70+10 L

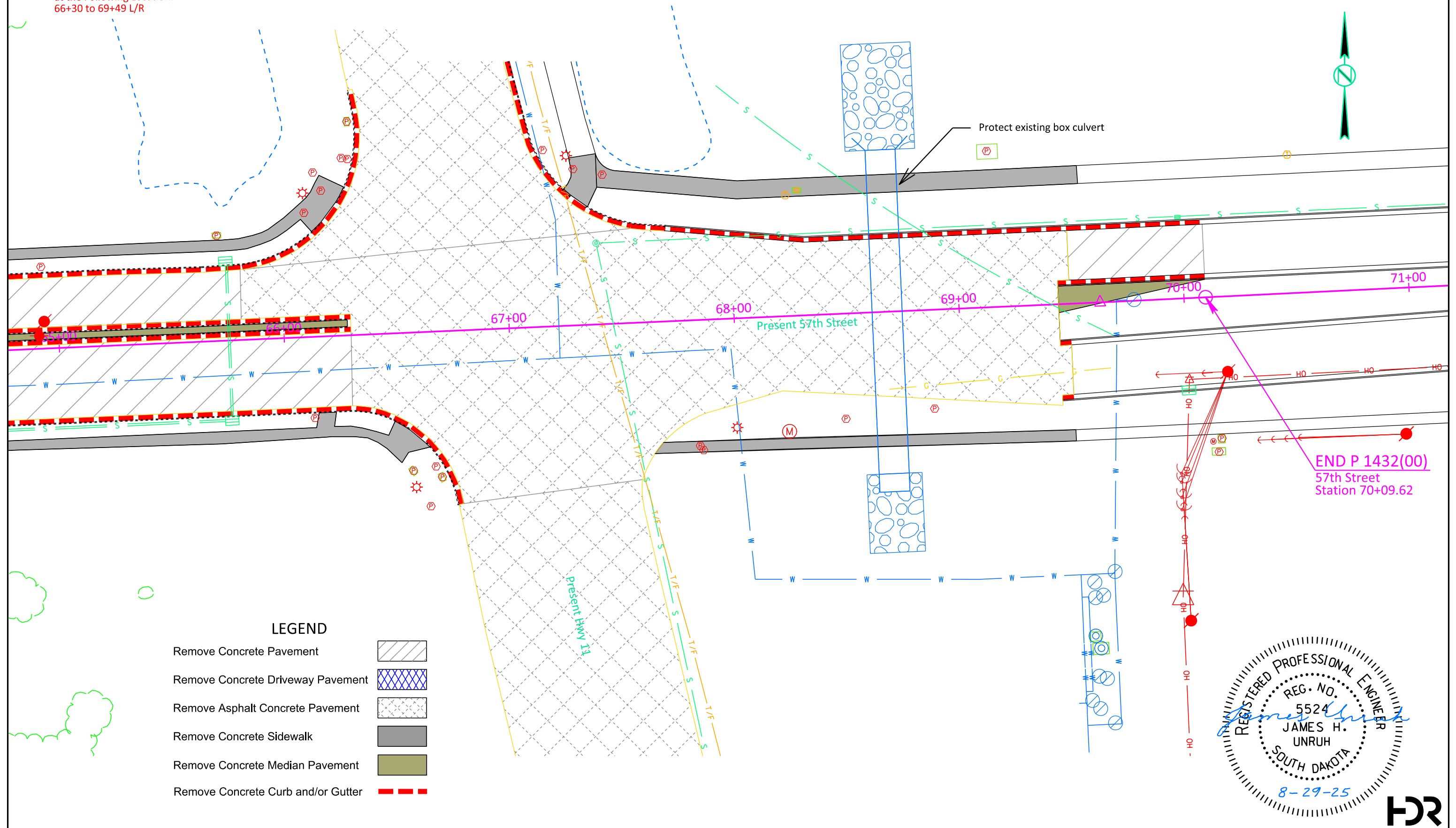
Take out Asphalt Pavement  
at the Following Location:  
66+30 to 69+49 L/R

# 57TH STREET REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

Take out Concrete Sidewalk  
at the Following Location:  
67+30 to 69+55 L  
67+64 to 69+48 R

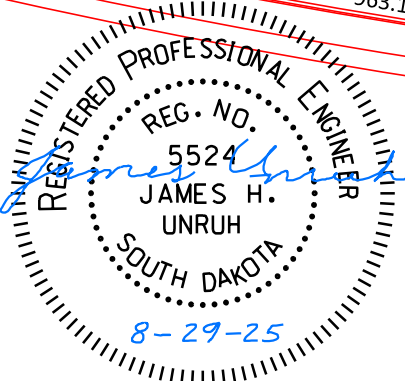
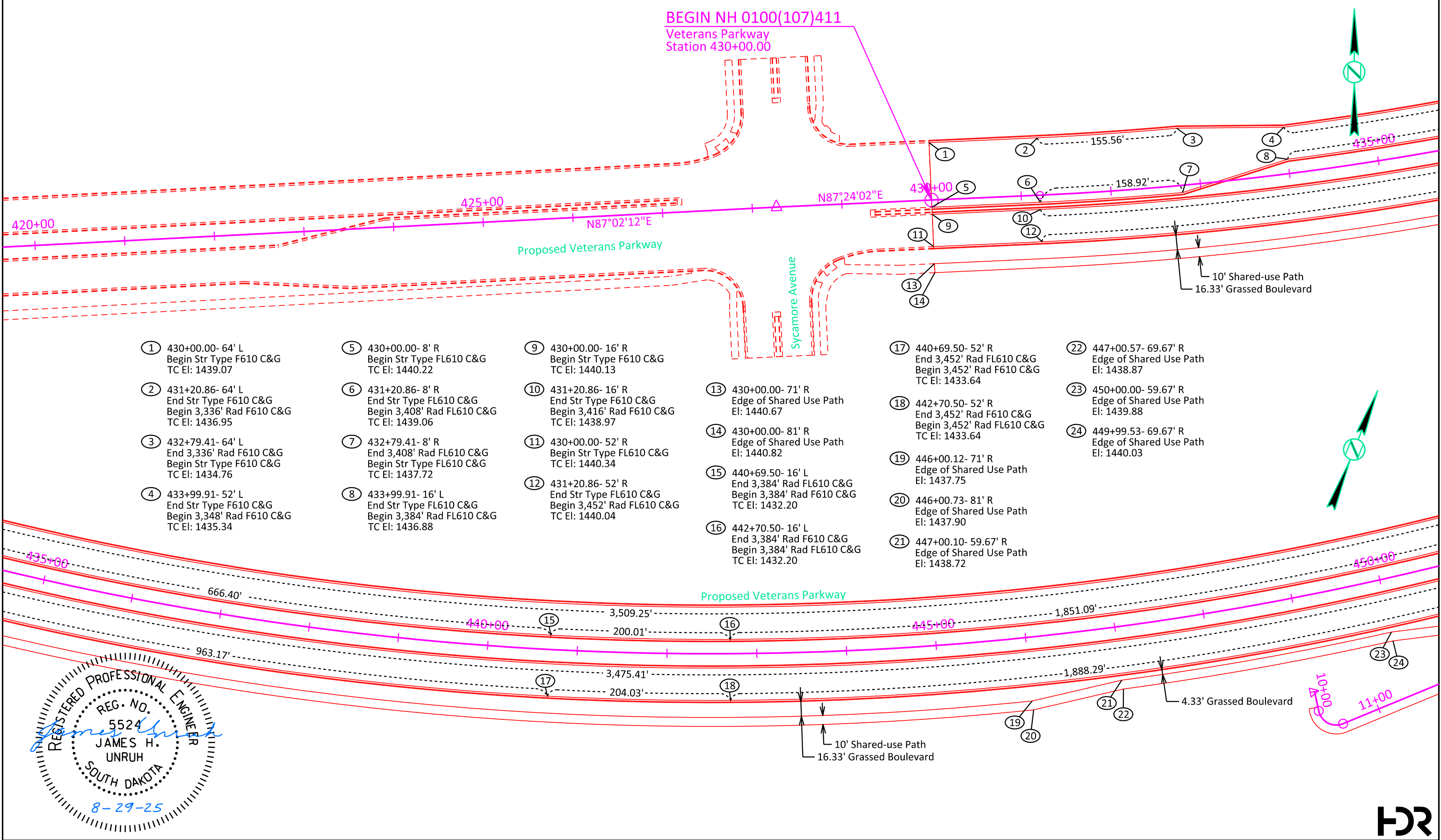
|                                         |                                            |           |                 |
|-----------------------------------------|--------------------------------------------|-----------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA             | PROJECT                                    | SHEET     | TOTAL<br>SHEETS |
|                                         | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B102      | B174            |
| FILE: ...\\B102 REM (57th St 66+00).dgn |                                            | REV DATE: |                 |
| PLOTING DATE: 08-28-2025                |                                            | INITIAL:  |                 |



# VETERANS PARKWAY CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B103                  | B174            |
| FILE: ...\\Section B\\B103 CG (420+00).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |





**FOR BIDDING PURPOSES ONLY**

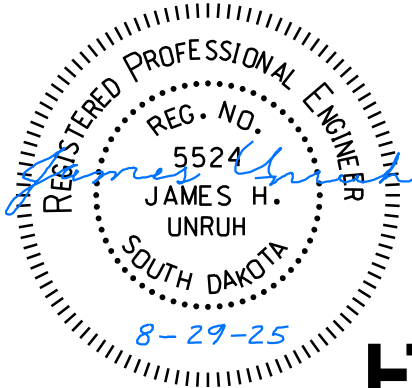
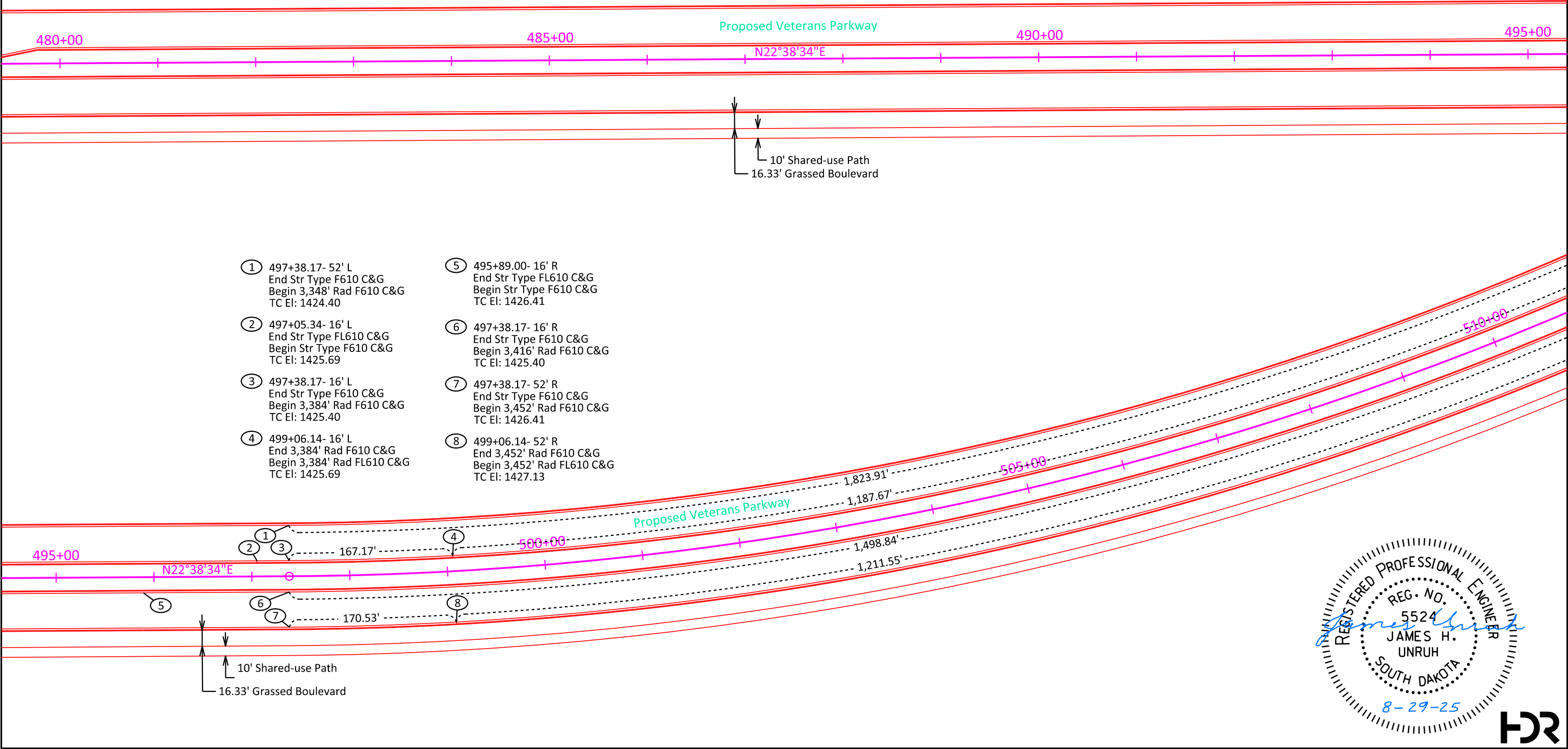
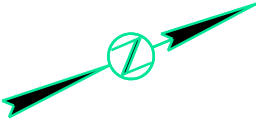
REV DATE:  
INITIAL:



# VETERANS PARKWAY CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                     |                                            |                       |                 |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B105                  | B174            |
| FILE: ...\\Section B\\B105 CG (480+00).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

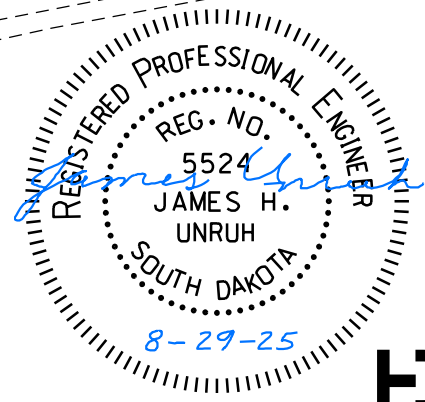
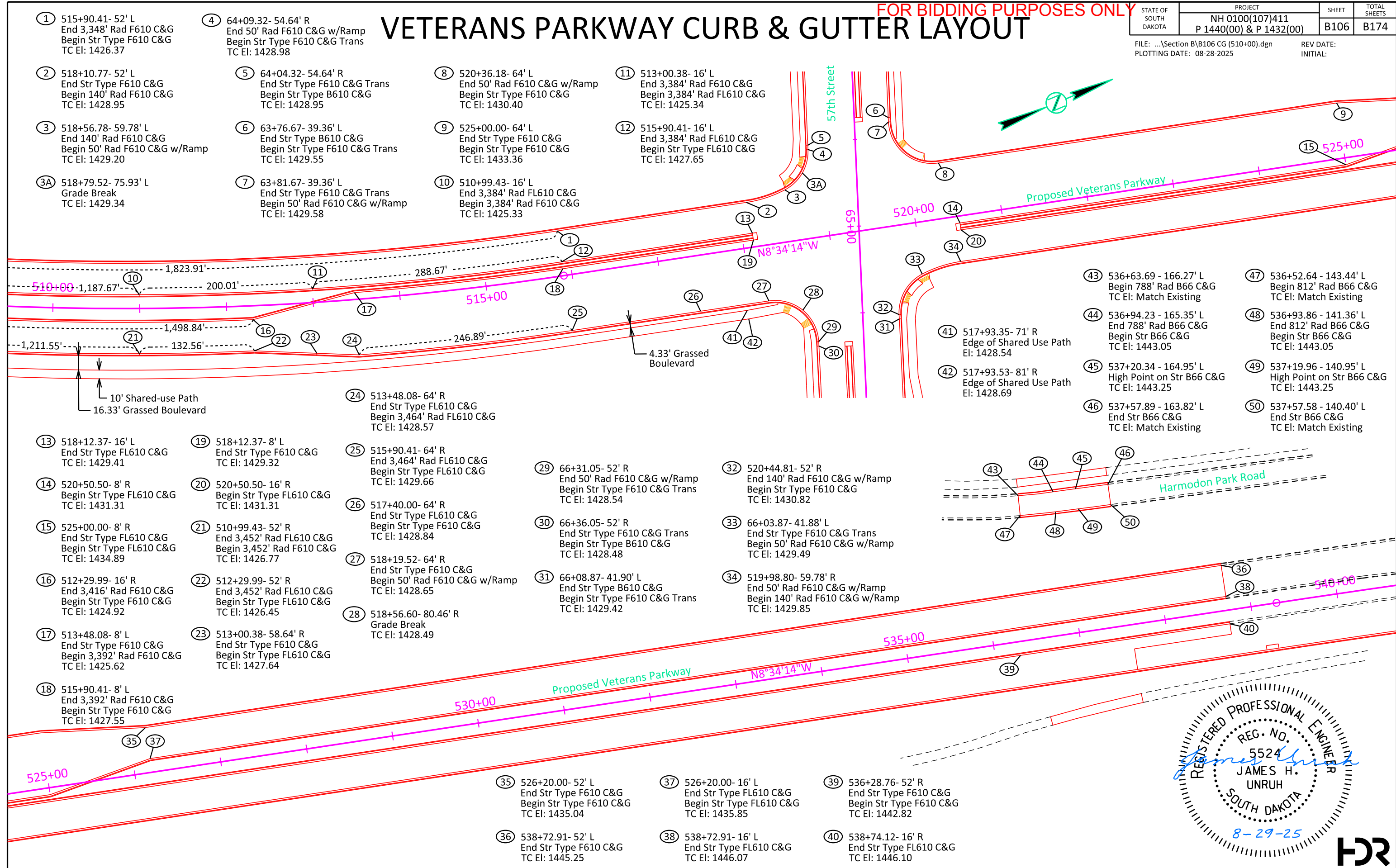


**FOR BIDDING PURPOSES ONLY**

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B106  | B174            |

FILE: ...\\Section B\\B106 CG (510+00).dgn      REV DATE:

PLOTTING DATE: 08-28-2025      INITIAL:





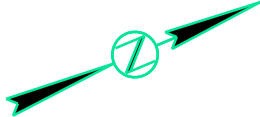
# VETERANS PARKWAY CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B107  | B174            |

FILE: ...\\Section B\\B107 CG (540+00).dgn  
PLOTING DATE: 08-28-2025

REV DATE:  
INITIAL:



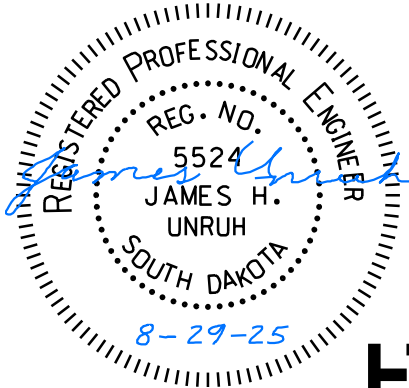
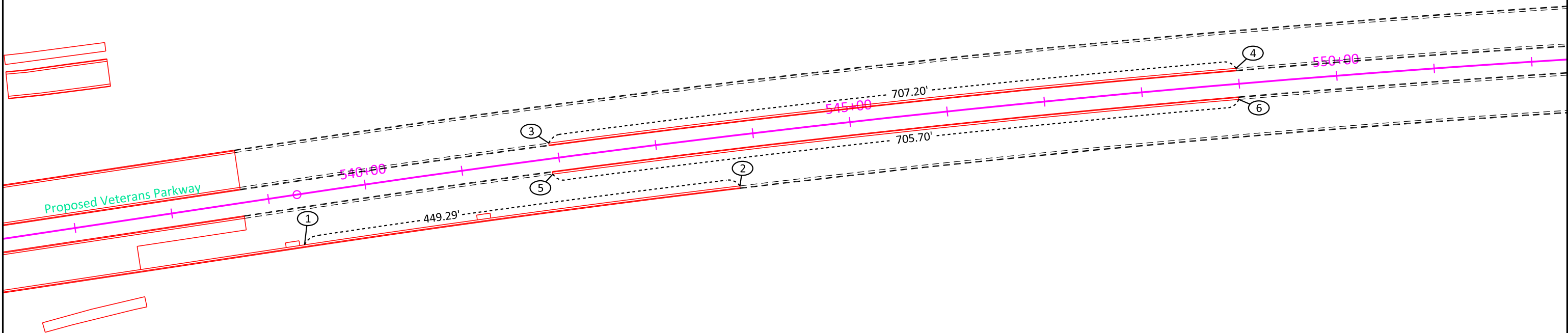
- ① 539+29.53- 52' R  
End Str Type F610 C&G  
Begin Str Type F610 C&G  
TC El: 1445.81

② 543+80.38- 52' R  
End Str Type F610 C&G  
TC El: Match Exist.

③ 541+92- 13.87' L  
Begin Str Type FL610 C&G  
TC El: Match Exist.
- ④ 548+98.5- 13.58' L  
End Str Type FL610 C&G  
TC El: Match Exist.

⑤ 541+92- 14.20' R  
Begin Str Type FL610 C&G  
TC El: Match Exist.

⑥ 548+98.5- 13.25' R  
End Str Type FL610 C&G  
TC El: Match Exist.



# 69TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B108  | B174            |

FILE: C&G\_  
PLOT DATE: 8/26/2025

REV DATE:  
INITIAL:



- ① STA 1109+49.88-11.86' LT  
Edge of Asphalt  
TS EL: 1429.24

② STA 1109+58.85-11.88' LT  
End of Asphalt  
TS EL: 1429.09

③ STA 1109+78.83-32.00' LT  
Edge of Asphalt  
TS EL: 1429.19

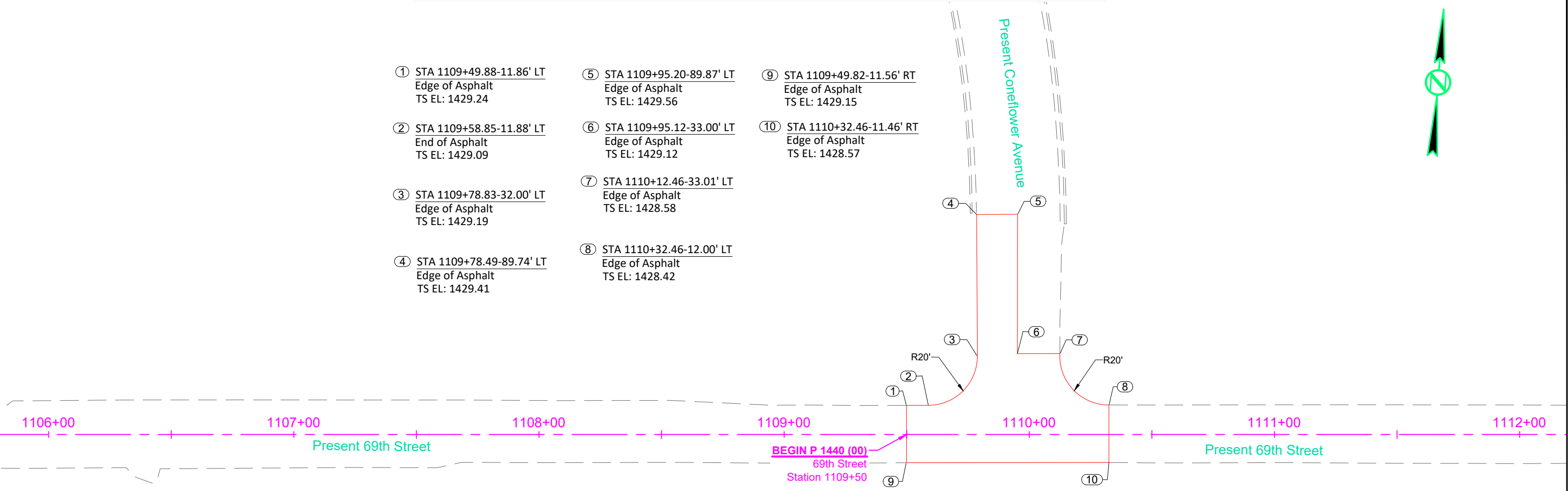
④ STA 1109+78.49-89.74' LT  
Edge of Asphalt  
TS EL: 1429.41
- ⑤ STA 1109+95.20-89.87' LT  
Edge of Asphalt  
TS EL: 1429.56

⑥ STA 1109+95.12-33.00' LT  
Edge of Asphalt  
TS EL: 1429.12

⑦ STA 1110+12.46-33.01' LT  
Edge of Asphalt  
TS EL: 1428.58

⑧ STA 1110+32.46-12.00' LT  
Edge of Asphalt  
TS EL: 1428.42
- ⑨ STA 1109+49.82-11.56' RT  
Edge of Asphalt  
TS EL: 1429.15

⑩ STA 1110+32.46-11.46' RT  
Edge of Asphalt  
TS EL: 1428.57



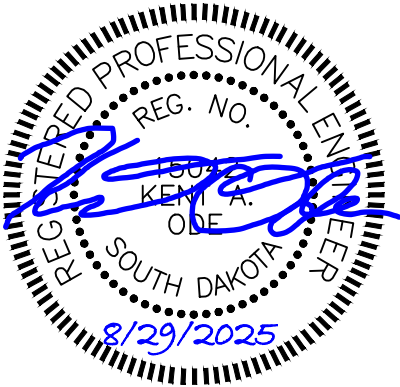
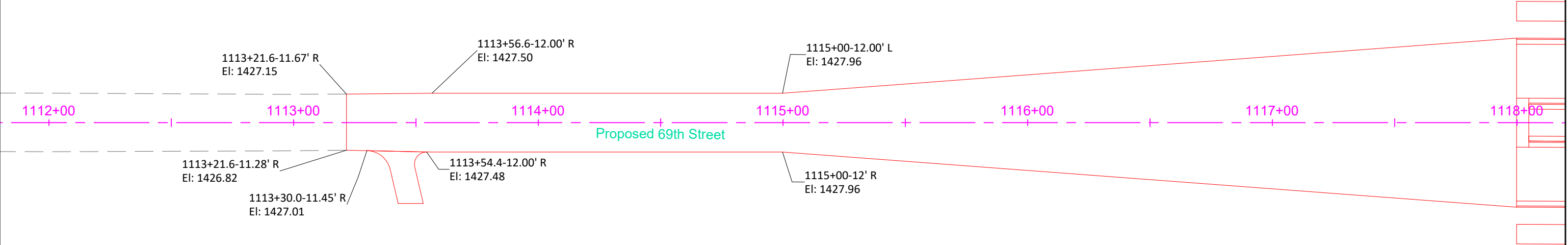
# 69TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B109  | B174            |

FILE: C&G\_  
PLOT DATE: 8/26/2025

REV DATE:  
INITIAL:





# 69TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B110  | B174            |

FILE: C&G\_  
PLOT DATE: 8/26/2025

REV DATE:  
INITIAL:

- ① STA 1117+99.79-32.00' LT  
Begin 2,032' Rad Type B66 C&G  
TC EL: 1430.11

② STA 1118+04.77-10.01' LT  
Begin 2,010' Rad Type BL66 C&G  
TC EL: 1430.69

③ STA 1118+04.82-9.99' RT  
Begin 1,990' Rad Type BL66 C&G  
TC EL: 1430.69

④ STA 1117+99.79-32.00' RT  
Begin 1,968' Rad Str Type B66 C&G  
TC EL: 1430.11

⑤ STA 1119+32.52-10.00' RT  
End 1,190' Rad Type BL66 C&G  
Begin Str Type BL66 C&G  
TC EL: 1432.04

⑥ STA 1120+51.07-1.00' LT  
End Str Type BL66 C&G  
Begin 2,001' Rad Type BL66 C&G  
TC EL: 1433.30

⑦ STA 1122+46.41-1.00' LT  
End 2,001' Rad Type BL66 C&G  
TC EL: 1435.36

⑧ STA 1122+46.43-10.00' LT  
End 2,010 Rad Type BL66 C&G  
TC EL: 1435.36

⑨ STA 1122+61.11-32.00' LT  
End 2,032' Type B66 C&G  
Begin 30' R Fillet w/ Ramp  
TC EL: 1434.99

⑩ STA 1122+92.59-64.08' LT  
End 30' R Fillet w/ Ramp  
Begin Str B66 C&G  
TC EL: 1434.96

⑪ STA 1122+92.64-74.77' LT  
End Str B66 C&G  
TC EL: 1434.76

⑫ STA 1122+75.93-49.50' LT  
Edge of Sidewalk  
TS EL: 1435.03

⑬ STA 1122+76.26-74.93' LT  
Edge of Sidewalk  
TS EL: 1435.02

⑭ STA 1123+25.42-74.88' LT  
Begin 30' R Fillet w/ Ramp  
TC EL: 1434.76

⑮ STA 1123+56.73-43.00' LT  
End 30' R Fillet w/ Ramp  
Begin 2,043 Rad Type B66 C&G  
TC EL: 1435.78

⑯ STA 1123+41.80-75.14' LT  
Edge of Sidewalk  
TS EL: 1435.20

⑰ STA 1123+42.13-57.50' LT  
Edge of Sidewalk  
TS EL: 1435.53

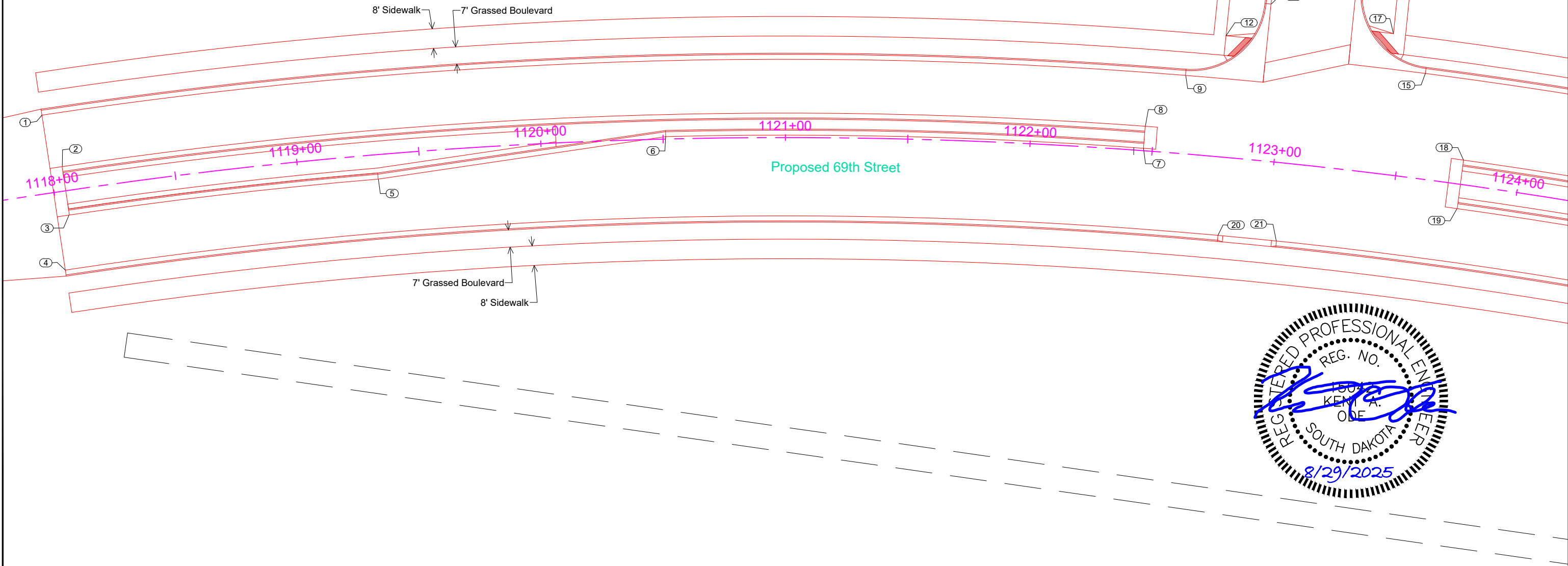
⑱ STA 1123+76.64-10.00' LT  
Begin 2,010' Rad Type BL66 C&G  
TC EL: 1436.70

⑲ STA 1123+76.84-10.00' RT  
Begin 1,990' Rad Type BL66 C&G  
TC EL: 1436.71

⑳ STA 1122+79.89-32.00' RT  
End 1,968' Rad Type B66 C&G  
Begin Driveway  
TC EL: 1435.02

㉑ STA 1123+04.29-32.00' RT  
End Driveway  
Begin 1,968' Rad Type B66 C&G  
TC EL: 1435.32

Proposed  
Huntwood Avenue



# 69TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B111  | B174            |

FILE: C&G\_  
PLOT DATE: 10/1/2025

REV DATE:  
INITIAL:



- ① STA 1124+73.35-43.00' LT  
End 2,043' Rad Type B66 C&G  
Begin Str B66 C&G  
TC EL: 1436.17

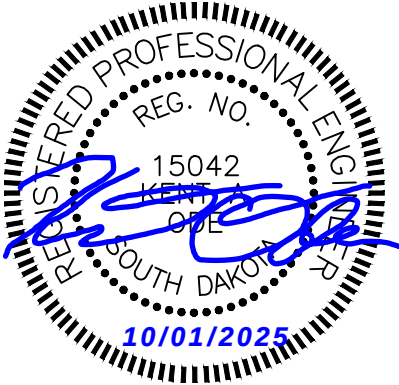
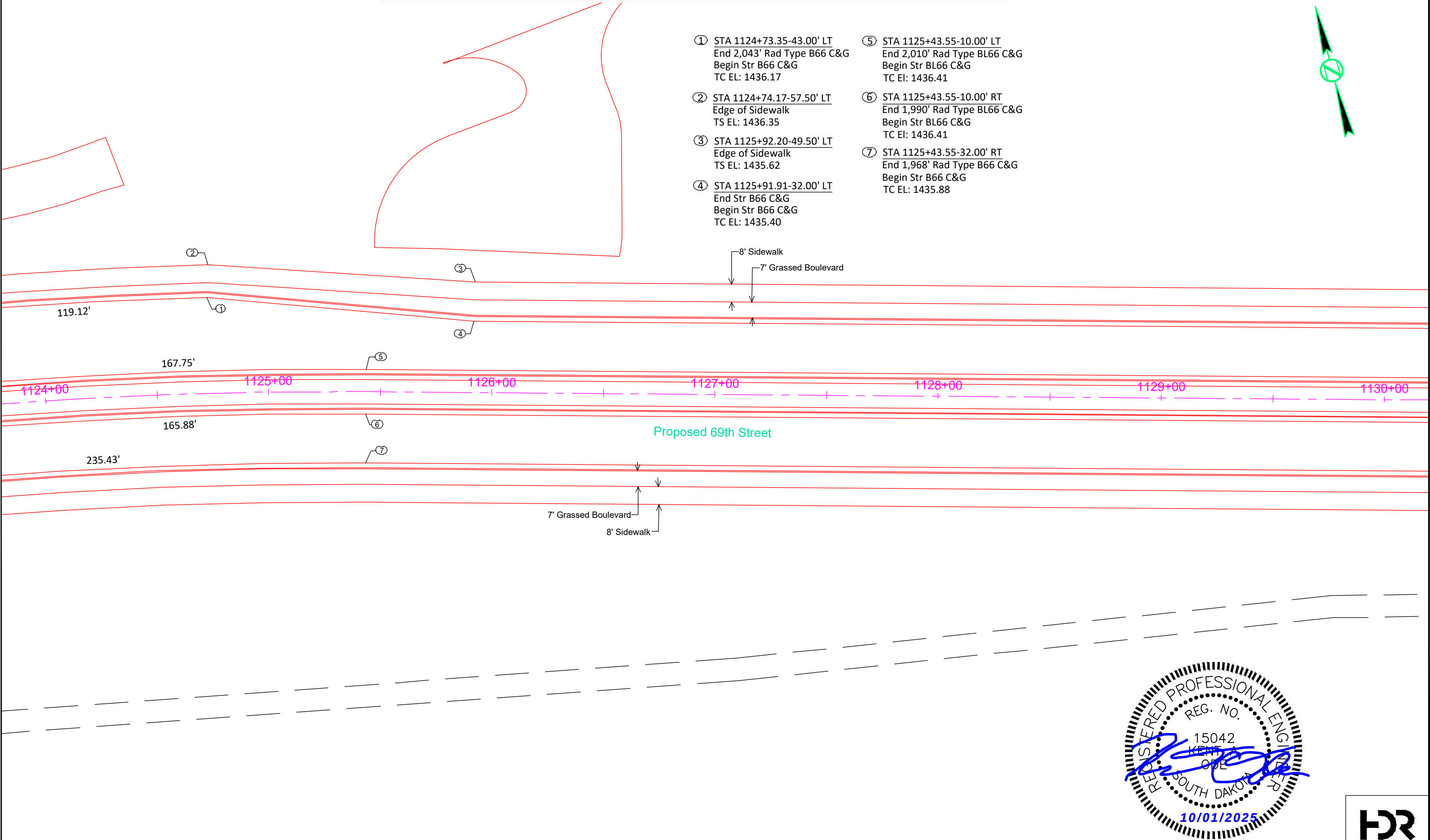
② STA 1124+74.17-57.50' LT  
Edge of Sidewalk  
TS EL: 1436.35

③ STA 1125+92.20-49.50' LT  
Edge of Sidewalk  
TS EL: 1435.62

④ STA 1125+91.91-32.00' LT  
End Str B66 C&G  
Begin Str B66 C&G  
TC EL: 1435.40
- ⑤ STA 1125+43.55-10.00' LT  
End 2,010' Rad Type BL66 C&G  
Begin Str BL66 C&G  
TC EL: 1436.41

⑥ STA 1125+43.55-10.00' RT  
End 1,990' Rad Type BL66 C&G  
Begin Str BL66 C&G  
TC EL: 1436.41

⑦ STA 1125+43.55-32.00' RT  
End 1,968' Rad Type B66 C&G  
Begin Str B66 C&G  
TC EL: 1435.88



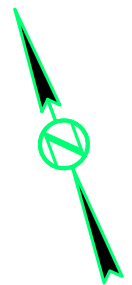
# 69TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B112  | B174            |

FILE: C&G\_  
PLOT DATE: 8/26/2025

REV DATE:  
INITIAL:



- ① STA 1130+60.00-10.00' RT  
End Str BL66 C&G  
Begin Str BL66 C&G  
TC EL: 1431.25

② STA 1131+79.66-3.00' LT  
End Str BL66 C&G  
Begin Str BL66 C&G  
TC EL: 1431.08

③ STA 1133+08.96-32.00' LT  
End Str B66 C&G  
Begin Str B66 C&G  
TC EL: 1430.86

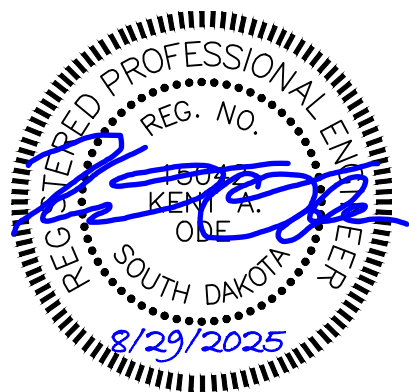
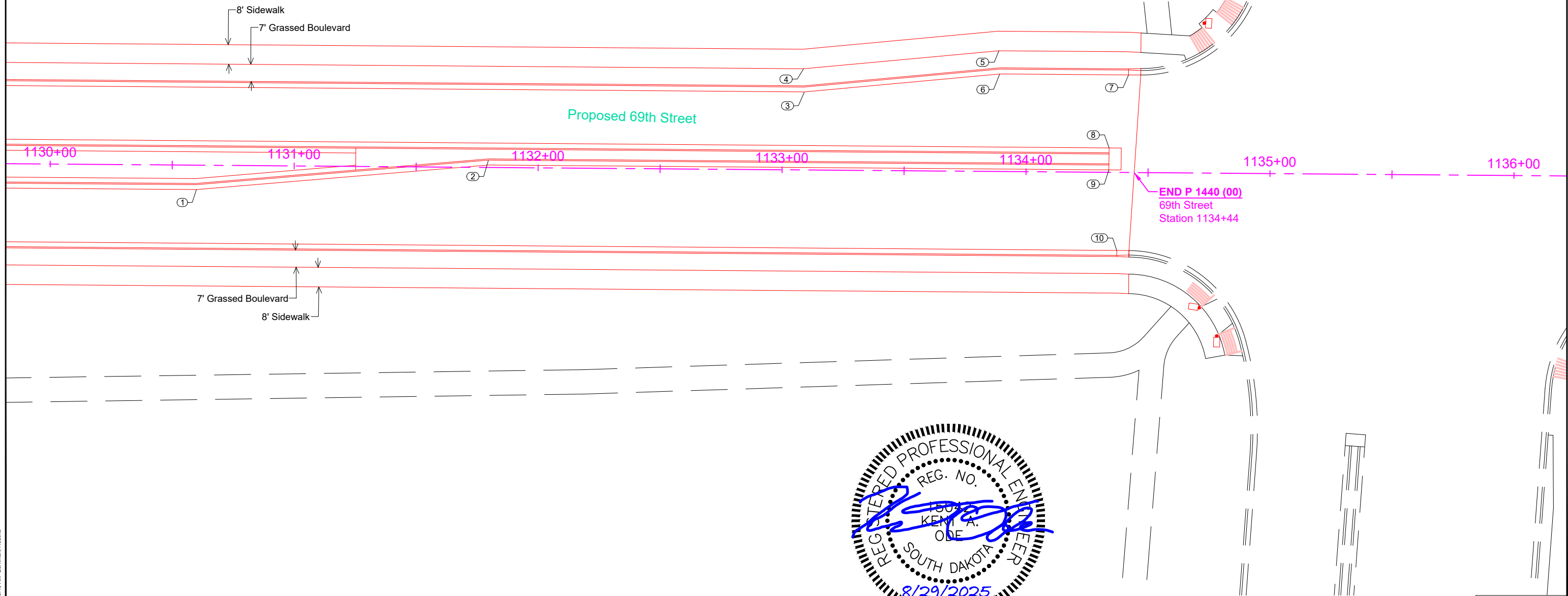
④ STA 1133+08.48-41.50' LT  
Edge of Sidewalk  
TS EL: 1430.96
- ⑤ STA 1133+88.48-49.50' LT  
Edge of Sidewalk  
TS EL: 1431.60

⑥ STA 1133+88.96-40.00' LT  
End Str B66 C&G  
Begin Str B66 C&G  
TC EL: 1431.50

⑦ STA 1134+41.71-40.00' LT  
End Str B66 C&G  
TC EL: 1432.20
- ⑧ STA 1134+33.95-10.00' LT  
End Str BL66 C&G  
TC EL: 1432.54

⑨ STA 1134+33.95-1.00' LT  
End Str BL66 C&G  
TC EL: 1432.54

⑩ STA 1134+37.43-32.00' RT  
End Str B66 C&G  
TC EL: 1432.21





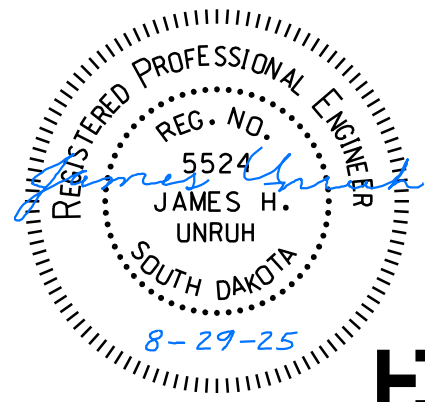
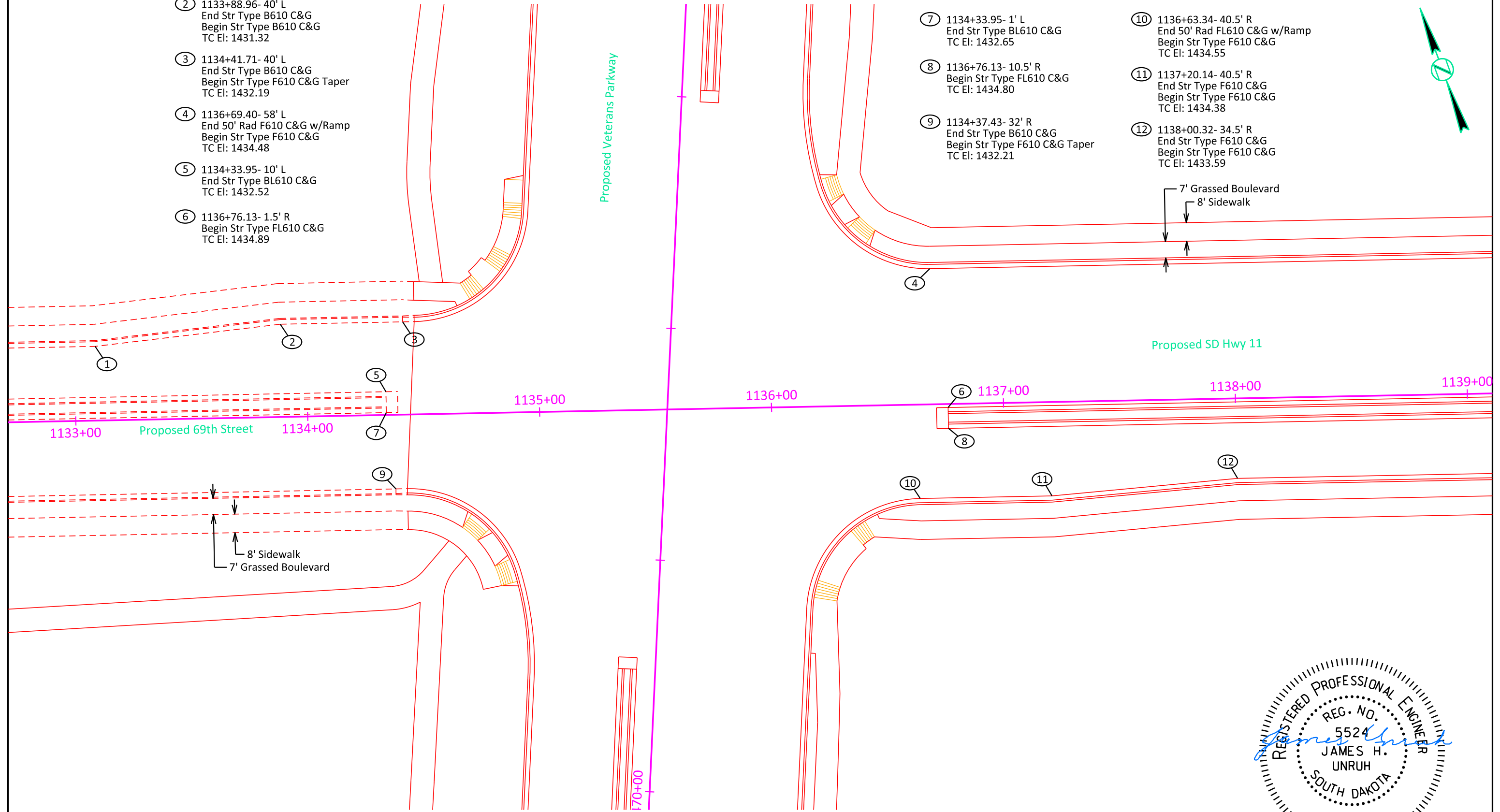
# SD HWY 11 CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                  |                                            |                       |                 |
|------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                      | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                  | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B113                  | B174            |
| FILE: ...\\B113 CG (Hwy 11 1133+00).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

- ① 1133+08.96- 32' L  
End Str Type B610 C&G  
Begin Str Type B610 C&G  
TC El: 1430.66
- ② 1133+88.96- 40' L  
End Str Type B610 C&G  
Begin Str Type B610 C&G  
TC El: 1431.32
- ③ 1134+41.71- 40' L  
End Str Type B610 C&G  
Begin Str Type F610 C&G Taper  
TC El: 1432.19
- ④ 1136+69.40- 58' L  
End 50' Rad F610 C&G w/Ramp  
Begin Str Type F610 C&G  
TC El: 1434.48
- ⑤ 1134+33.95- 10' L  
End Str Type BL610 C&G  
TC El: 1432.52
- ⑥ 1136+76.13- 1.5' R  
Begin Str Type FL610 C&G  
TC El: 1434.89

- ⑦ 1134+33.95- 1' L  
End Str Type BL610 C&G  
TC El: 1432.65
- ⑧ 1136+76.13- 10.5' R  
Begin Str Type FL610 C&G  
TC El: 1434.80
- ⑨ 1134+37.43- 32' R  
End Str Type B610 C&G  
Begin Str Type F610 C&G Taper  
TC El: 1432.21
- ⑩ 1136+63.34- 40.5' R  
End 50' Rad FL610 C&G w/Ramp  
Begin Str Type F610 C&G  
TC El: 1434.55
- ⑪ 1137+20.14- 40.5' R  
End Str Type F610 C&G  
Begin Str Type F610 C&G  
TC El: 1434.38
- ⑫ 1138+00.32- 34.5' R  
End Str Type F610 C&G  
Begin Str Type F610 C&G  
TC El: 1433.59



# SD HWY 11 CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B114  | B174            |

FILE: ...\\B114 CG (Hwy 11 1139+00).dgn  
PLOTING DATE: 08-28-2025

REV DATE:  
INITIAL:



- ① 1139+50.00- 58' L  
End Str Type F610 C&G  
Begin Str Type F610 C&G  
TC El: 1430.97

② 1140+70.00- 34.5' L  
End Str Type F610 C&G  
Begin Str Type F610 C&G  
TC El: 1429.69

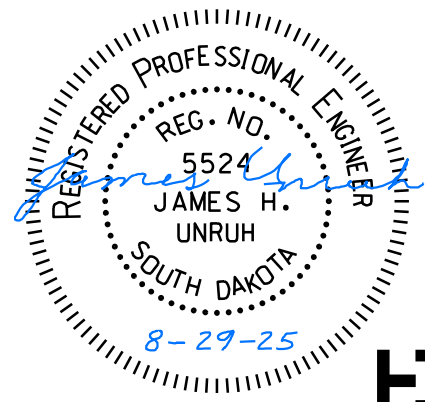
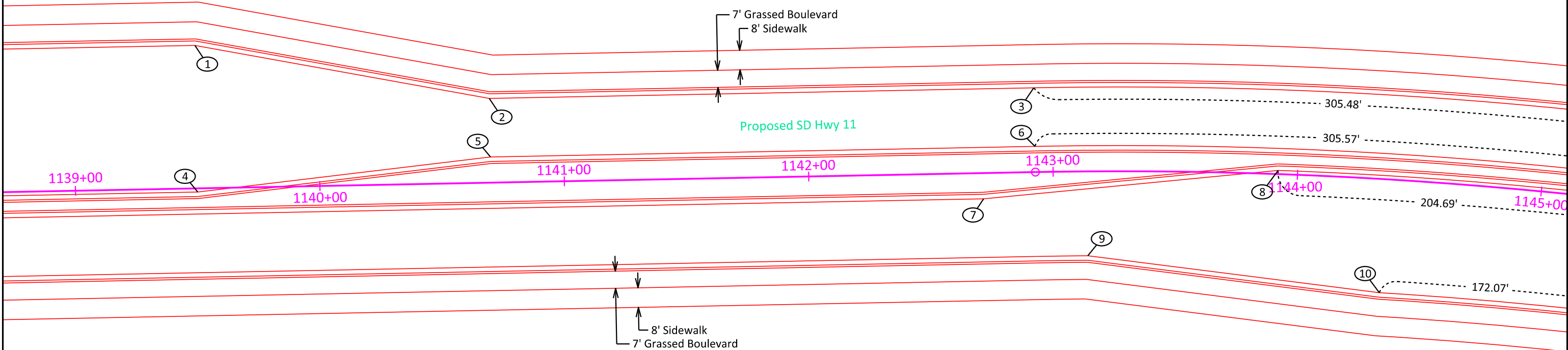
③ 1142+92.76- 34.5' L  
End Str Type F610 C&G  
Begin 1,834.5' Rad F610 C&G  
TC El: 1426.42
- ④ 1139+50.00- 1.5' R  
End Str Type FL610 C&G  
Begin Str Type FL610 C&G  
TC El: 1432.27

⑤ 1140+70.00- 10.5' L  
End Str Type FL610 C&G  
Begin Str Type FL610 C&G  
TC El: 1430.27

⑥ 1142+92.76- 10.5' L  
End Str Type FL610 C&G  
Begin 1,810.5' Rad FL610 C&G  
TC El: 1427.00
- ⑦ 1142+71.35- 10.5' R  
End Str Type FL610 C&G  
Begin Str Type FL610 C&G  
TC El: 1427.31

⑧ 1143+92.01- 1.5' L  
End Str Type FL610 C&G  
Begin 1,801.5' Rad FL610 C&G  
TC El: 1425.77
- ⑨ 1143+13.95- 34.5' R  
End Str Type F610 C&G  
Begin Str Type F610 C&G  
TC El: 1426.11

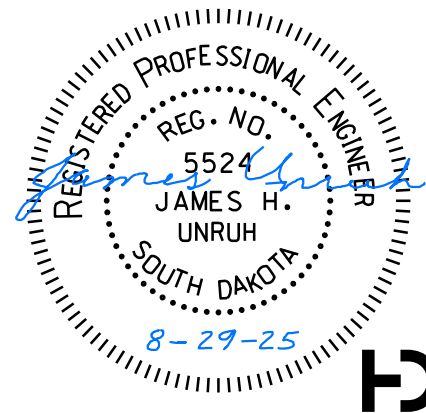
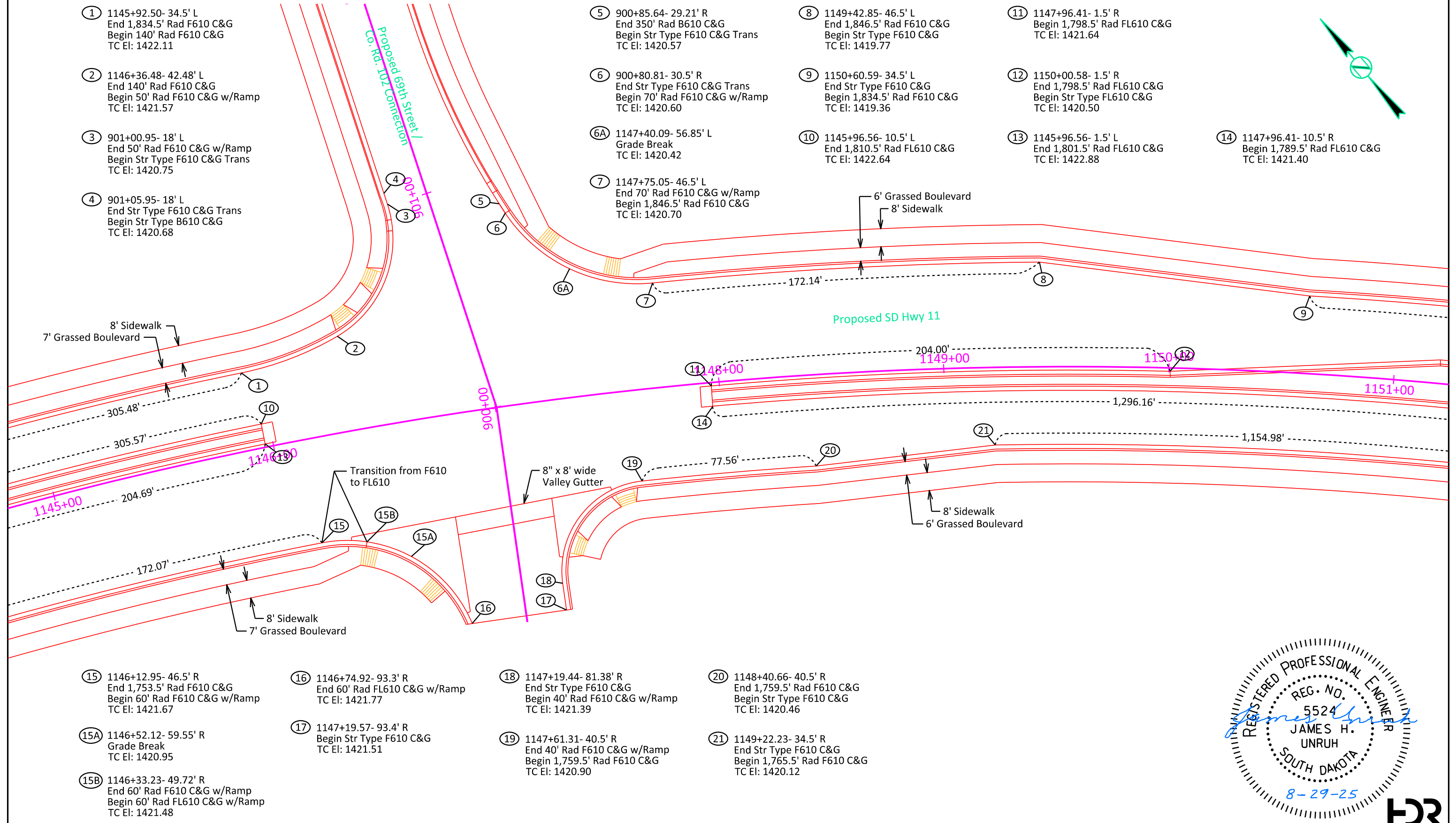
⑩ 1144+36.32- 46.5' R  
End Str Type F610 C&G  
Begin 1,753.5' Rad F610 C&G  
TC El: 1424.06



# SD HWY 11 CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B115                  | B174            |
| FILE: ...\\B115 CG (Hwy 11 1145+00).dgn<br>PLOTING DATE: 08-29-2025 |                                            | REV DATE:<br>INITIAL: |                 |

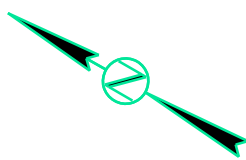




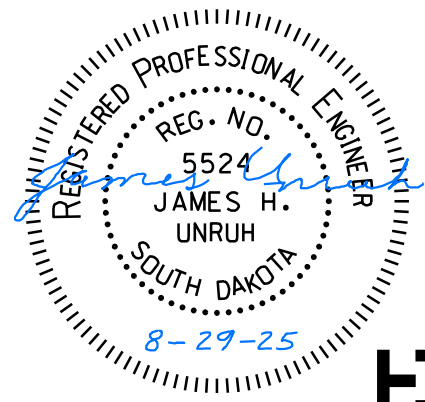
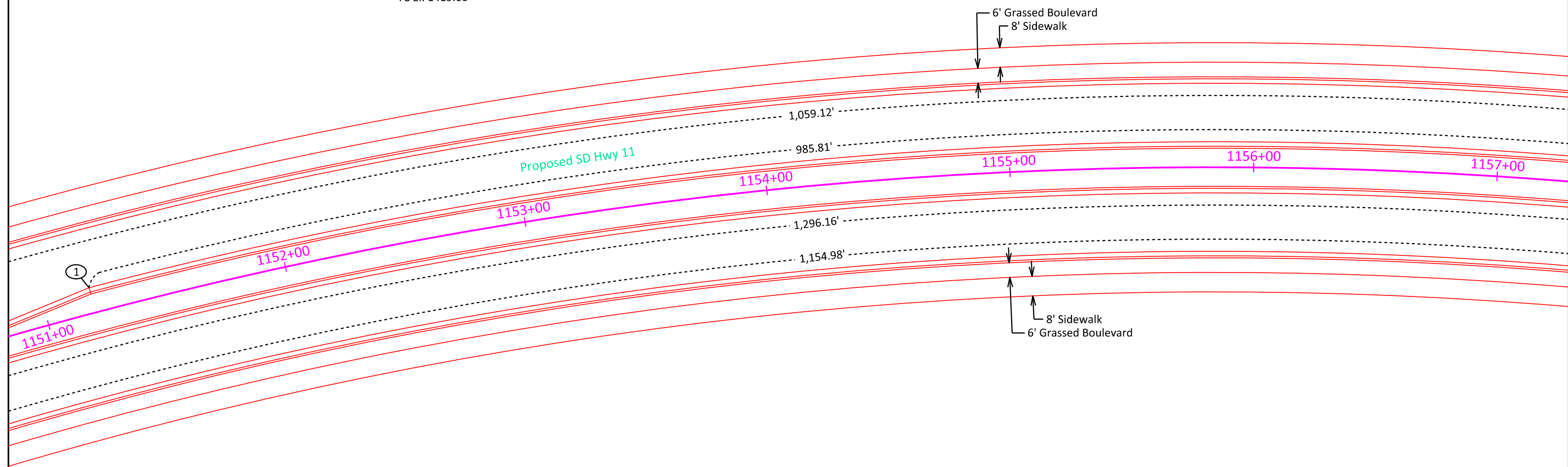
# SD HWY 11 CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                     |                                            |                       |                 |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                         | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                     | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B116                  | B174            |
| FILE: ...\\B116 CG (Hwy 11 1151+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



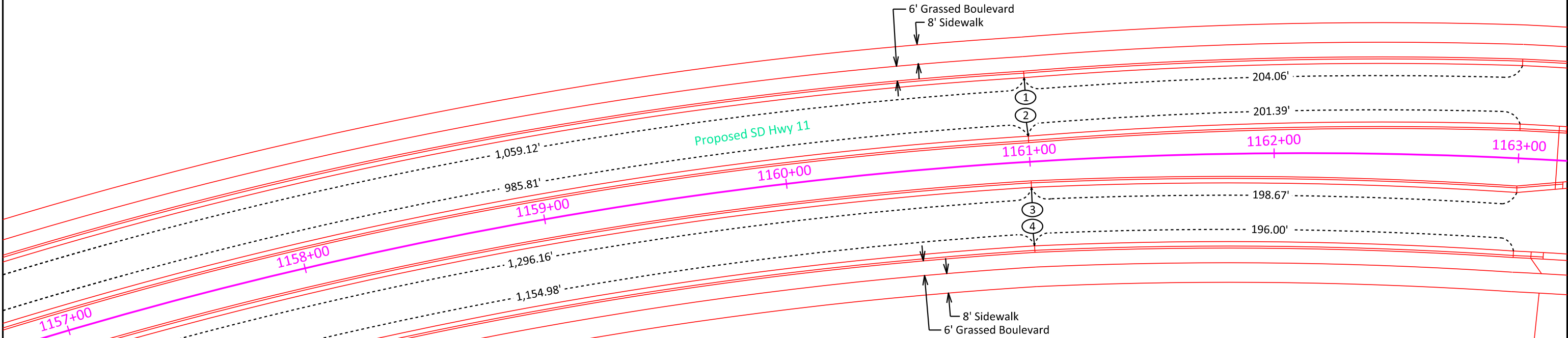
① 1151+19.90- 10.5' L  
End Str Type FL610 C&G  
Begin 1,810.5' Rad FL610 C&G  
TC El: 1419.60



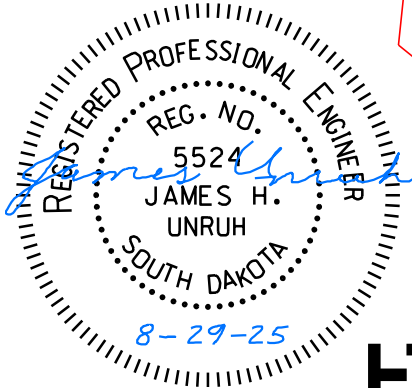
# SD HWY 11 CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                  |                                            |                       |                 |
|------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                      | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                  | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B117                  | B174            |
| FILE: ...\\B117 CG (Hwy 11 1157+00).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



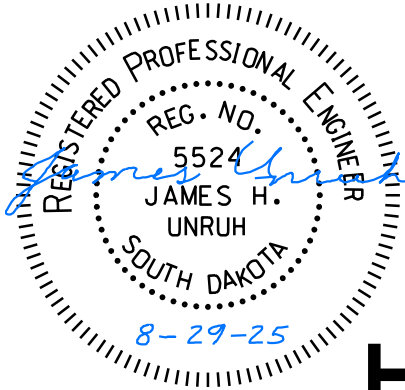
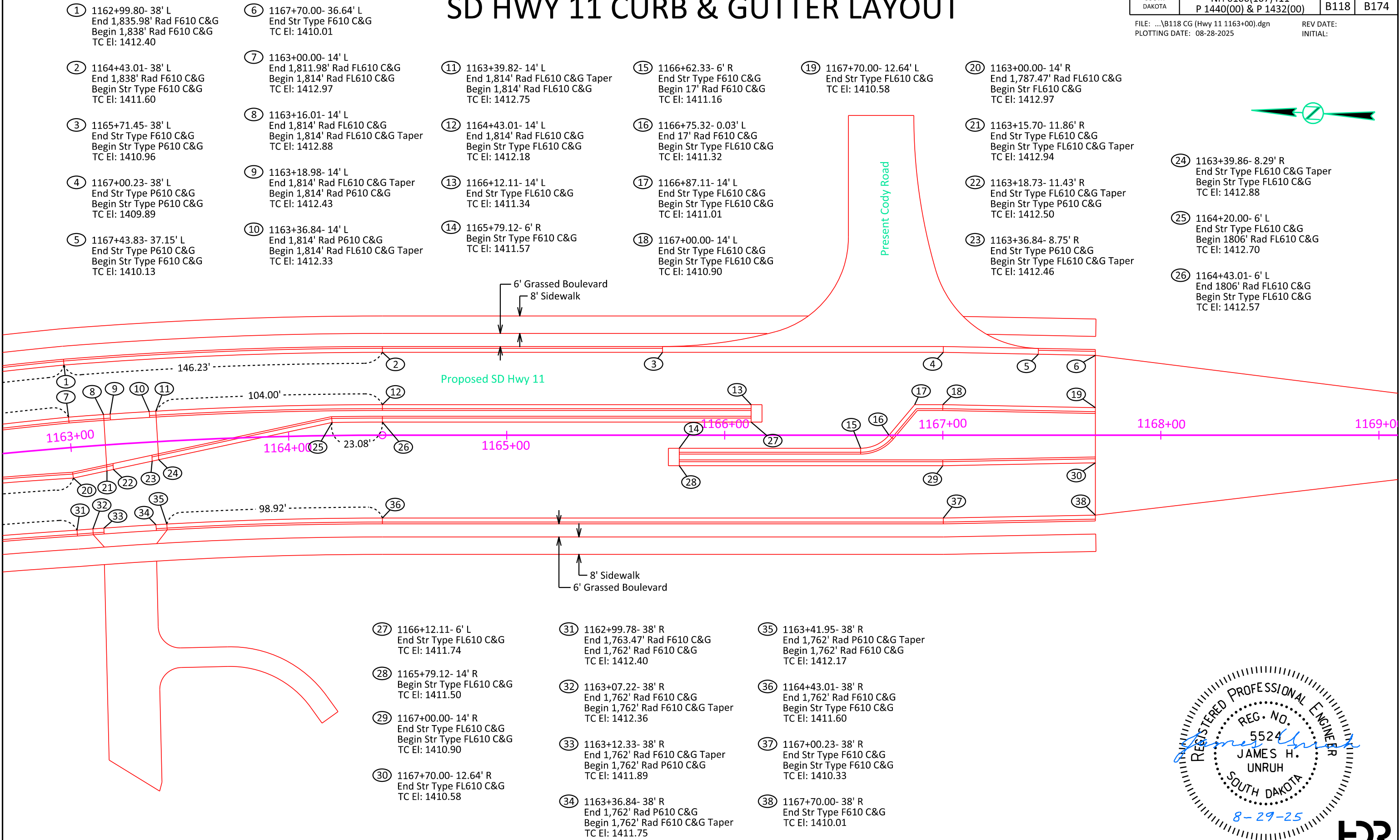
- ① 1160+99.80- 34.5' L  
End 1,834.5' Rad F610 C&G  
Begin 1,835.98' Rad F610 C&G  
TC El: 1413.58
- ② 1161+00.00- 10.5' L  
End 1,810.5' Rad FL610 C&G  
Begin 1,811.98' Rad FL610 C&G  
TC El: 1414.15
- ③ 1161+00.00- 10.5' R  
End 1,789.5' Rad FL610 C&G  
Begin 1,787.47' Rad FL610 C&G  
TC El: 1414.15
- ④ 1160+99.78- 34.5' R  
End 1,765.5' Rad F610 C&G  
Begin 1,763.47' Rad F610 C&G  
TC El: 1413.58



# SD HWY 11 CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                      | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|------------------------------------------------------------------|--------------------------------------------|-------|-----------------|
|                                                                  | NH 0100(107)411<br>P 1440(00) & P 1432(00) |       |                 |
| FILE: ...\\B118 CG (Hwy 11 1163+00).dgn<br>PLOT DATE: 08-28-2025 |                                            | B118  | B174            |
| REV DATE:<br>INITIAL:                                            |                                            |       |                 |



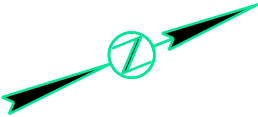


# 69TH STREET / CO RD. 102 CONNECTION

## CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                    |                                            |                       |                 |
|--------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                        | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                    | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B119                  | B174            |
| FILE: ...\\B119 CG (Co Rd 102 900+00).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

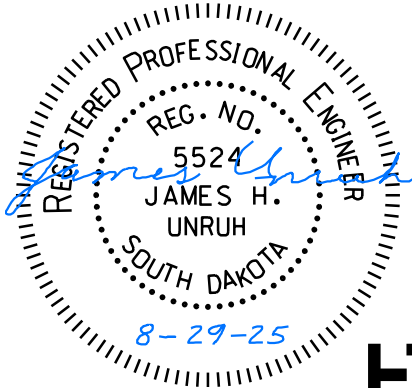
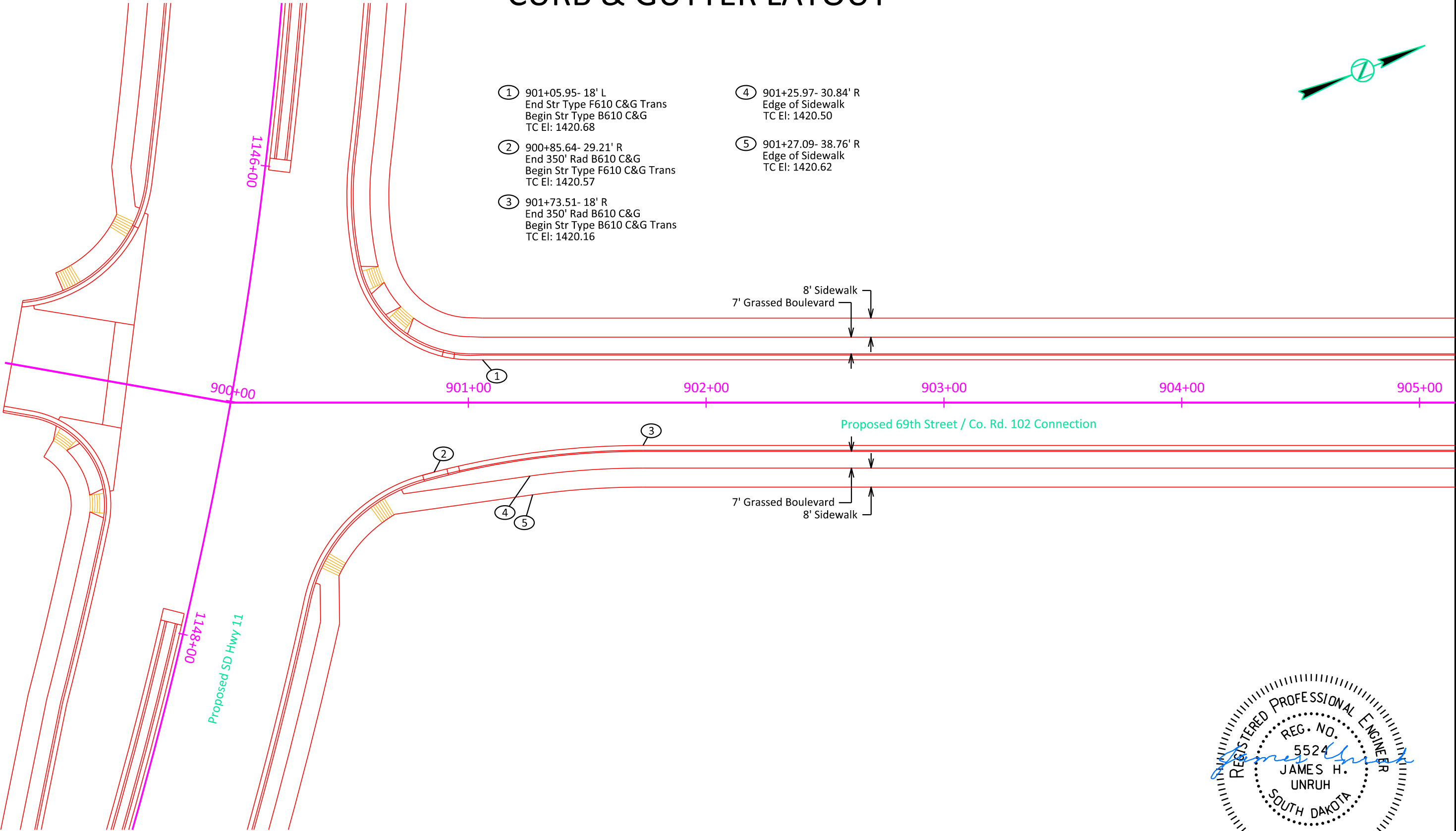


- ① 901+05.95- 18' L  
End Str Type F610 C&G Trans  
Begin Str Type B610 C&G  
TC El: 1420.68

② 900+85.64- 29.21' R  
End 350' Rad B610 C&G  
Begin Str Type F610 C&G Trans  
TC El: 1420.57

③ 901+73.51- 18' R  
End 350' Rad B610 C&G  
Begin Str Type B610 C&G Trans  
TC El: 1420.16
- ④ 901+25.97- 30.84' R  
Edge of Sidewalk  
TC El: 1420.50

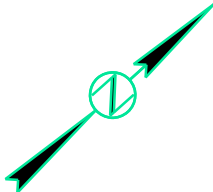
⑤ 901+27.09- 38.76' R  
Edge of Sidewalk  
TC El: 1420.62



FOR BIDDING PURPOSES ONLY

# 69TH STREET / CO RD. 102 CONNECTION CURB & GUTTER LAYOUT

|                                                                       |                                            |                       |                 |
|-----------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                           | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                       | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B120                  | B174            |
| FILE: ...\\B120 CG (Co Rd 102 905+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



- ①

905+44.01- 18' L  
End Str Type B610 C&G  
Begin 818' Rad B610 C&G  
TC El: 1422.00
- ②

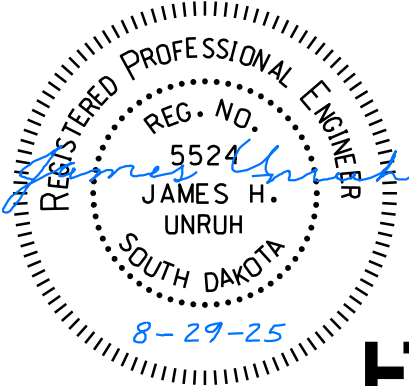
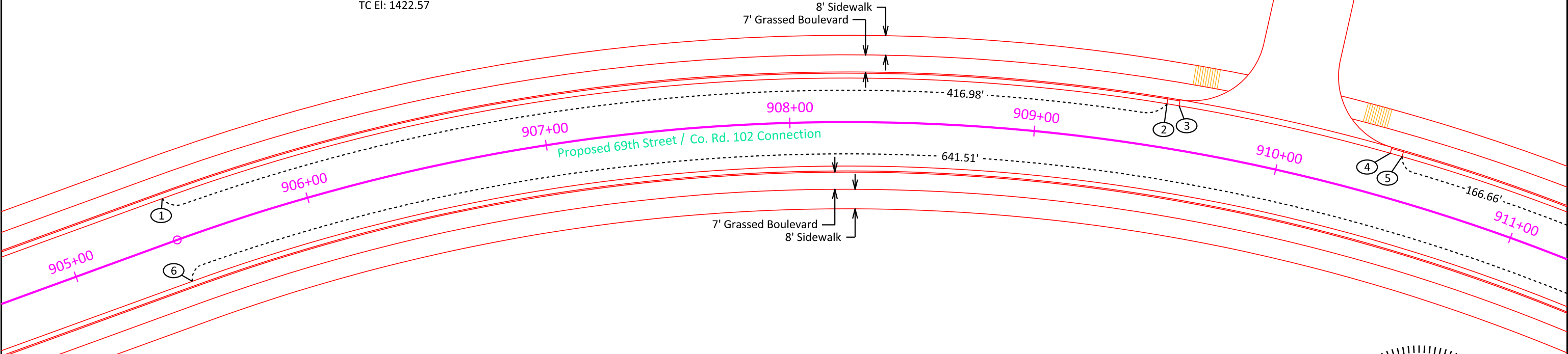
909+51.82- 18' L  
End 818' Rad B610 C&G  
Begin 818' Rad B610 C&G Taper  
TC El: 1421.11
- ③

909+56.71- 18' L  
End 818' Rad B610 C&G Taper  
Begin 818' Rad P610 C&G  
TC El: 1421.16 (Theor.)
- ④

910+43.29- 18' L  
End 818' Rad P610 C&G  
Begin 818' Rad B610 C&G Taper  
TC El: 1422.49 (Theor.)
- ⑤

910+48.18- 18' L  
End 818' Rad B610 C&G Taper  
Begin 818' Rad B610 C&G  
TC El: 1422.57
- ⑥

905+44.01- 18' R  
End Str Type B610 C&G  
Begin 782' Rad B610 C&G  
TC El: 1422.00



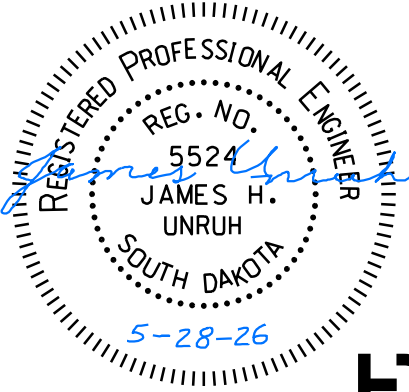
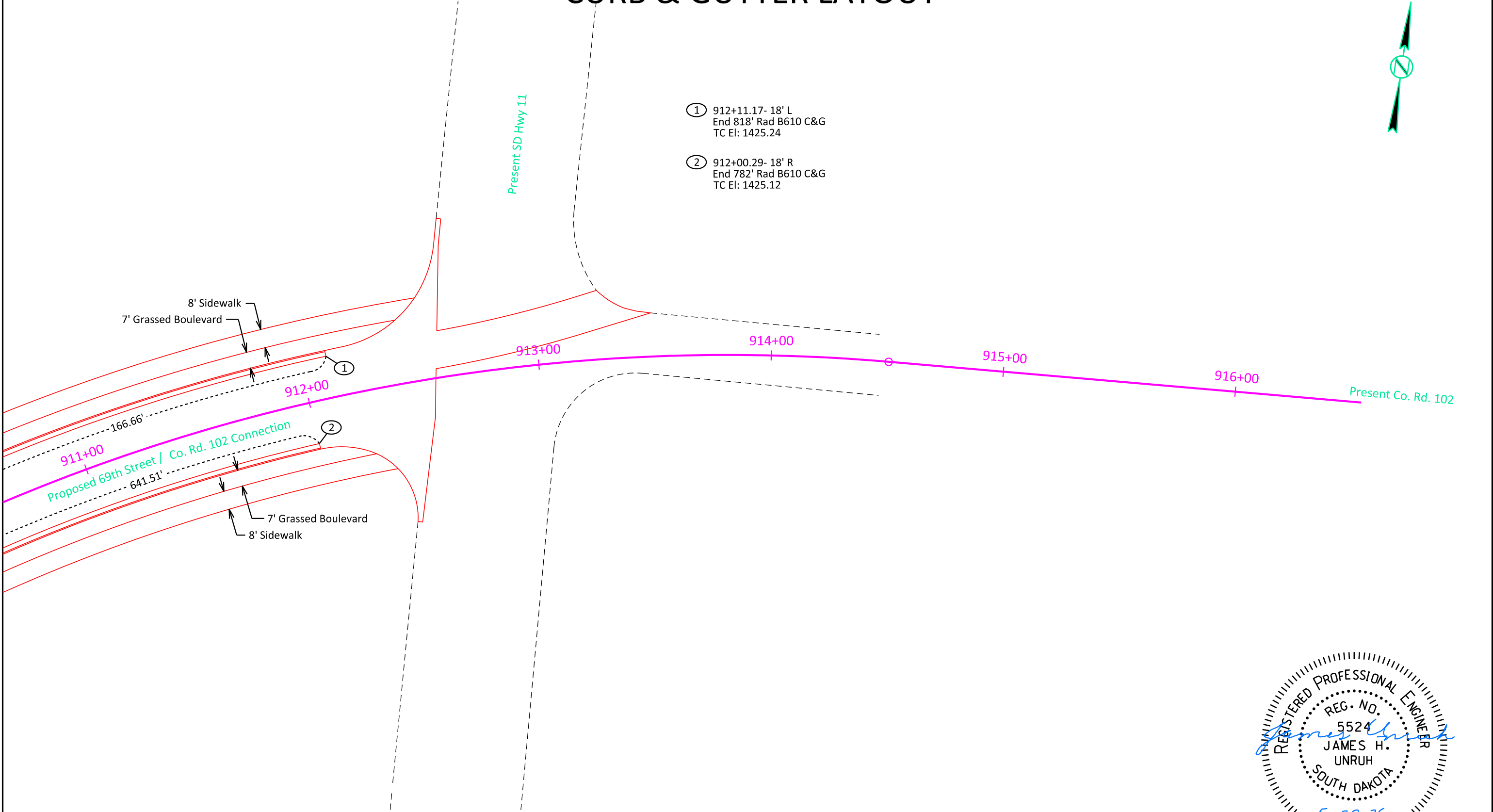
# 69TH STREET / CO RD. 102 CONNECTION CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                       |                                            |                                      |                 |
|-----------------------------------------------------------------------|--------------------------------------------|--------------------------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                           | PROJECT                                    | SHEET                                | TOTAL<br>SHEETS |
|                                                                       | NH 0100(107)411<br>P 1440(00) & P 1432(00) |                                      |                 |
| FILE: ...\\B121 CG (Co Rd 102 911+00).dgn<br>PLOTING DATE: 05-28-2026 |                                            | B121                                 | B174            |
|                                                                       |                                            | REV DATE: 03-18-2026<br>INITIAL: JHU |                 |



- ① 912+11.17- 18' L  
End 818' Rad B610 C&G  
TC El: 1425.24
- ② 912+00.29- 18' R  
End 782' Rad B610 C&G  
TC El: 1425.12





# 57TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                             |                                            |       |                 |
|-----------------------------|--------------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) |       |                 |
|                             |                                            | B122  | B174            |

FILE: ...\\B122 CG (57th 55+00).dgn  
PLOTING DATE: 08-28-2025

REV DATE:  
INITIAL:

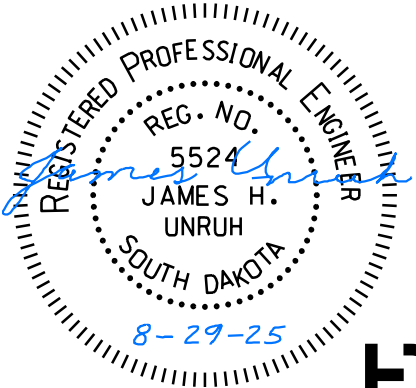
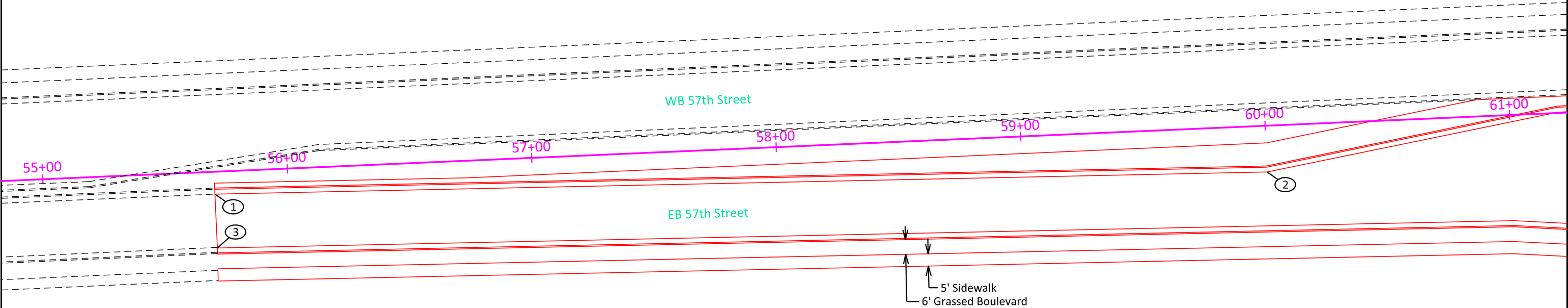


- 1

55+70.00- 9.16' R  
Begin Str Type B610 C&G  
TC El: 1435.74
- 2

60+00.00- 18.91' R  
End Str Type B610 C&G  
Begin Str Type B610 C&G  
TC El: 1432.40
- 3

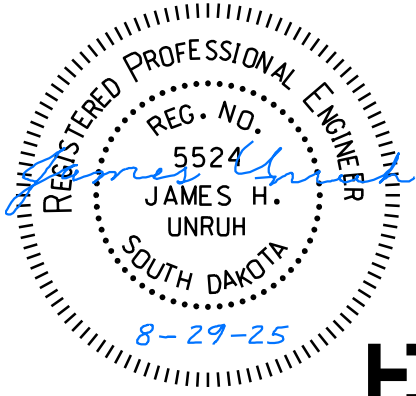
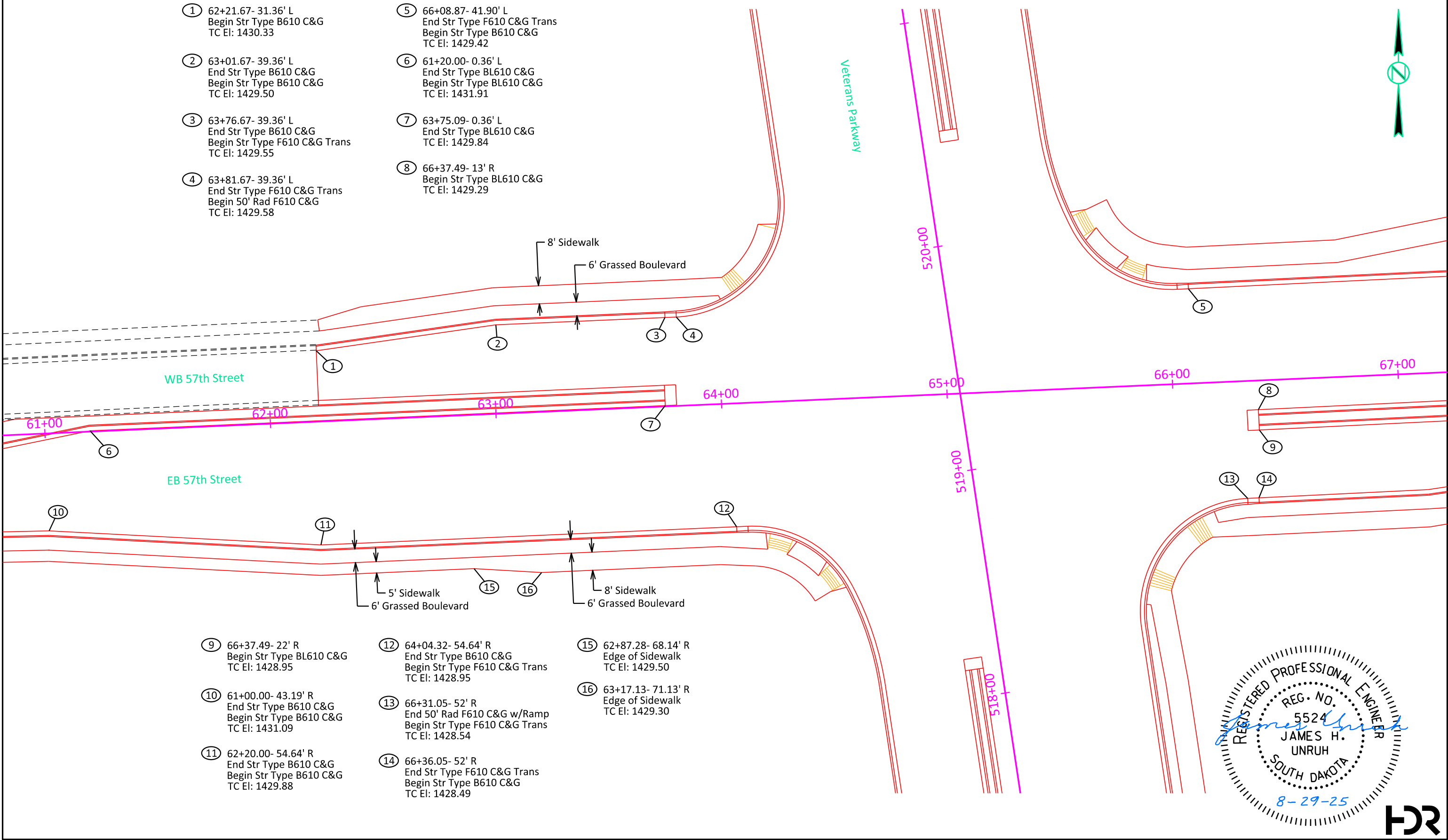
55+70.00- 31.16' R  
Begin Str Type B610 C&G  
TC El: 1435.21



# 57TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

|                                                                 |                                            |                       |                 |
|-----------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                     | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                 | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B123                  | B174            |
| FILE: ...\\B123 CG (57th 61+00).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



# 57TH STREET CURB & GUTTER LAYOUT

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B124  | B174            |

FILE: ...\\B124 CG (57th 67+00).dgn  
PLOTING DATE: 08-28-2025

REV DATE:  
INITIAL:

- ① 68+89.42- 43.19' L  
End Str Type B610 C&G  
Begin Str Type B610 C&G  
TC El: 1426.47

② 70+09.62- 32.52' L  
End Str Type B610 C&G  
TC El: 1426.12

③ 68+69.96- 11.90' R  
End Str Type BL610 C&G  
Begin Str Type BL610 C&G  
TC El: 1427.80

④ 68+89.67- 11.26' R  
End Str Type BL610 C&G  
Begin Str Type BL610 C&G  
TC El: 1427.64

⑤ 70+09.62- 10.52' L  
End Str Type BL610 C&G  
TC El: 1426.66

⑥ 68+70.13- 20.90' R  
End Str Type BL610 C&G  
Begin Str Type BL610 C&G  
TC El: 1427.14

⑦ 69+49.24- 18.31' R  
End Str Type BL610 C&G  
TC El: 1426.64

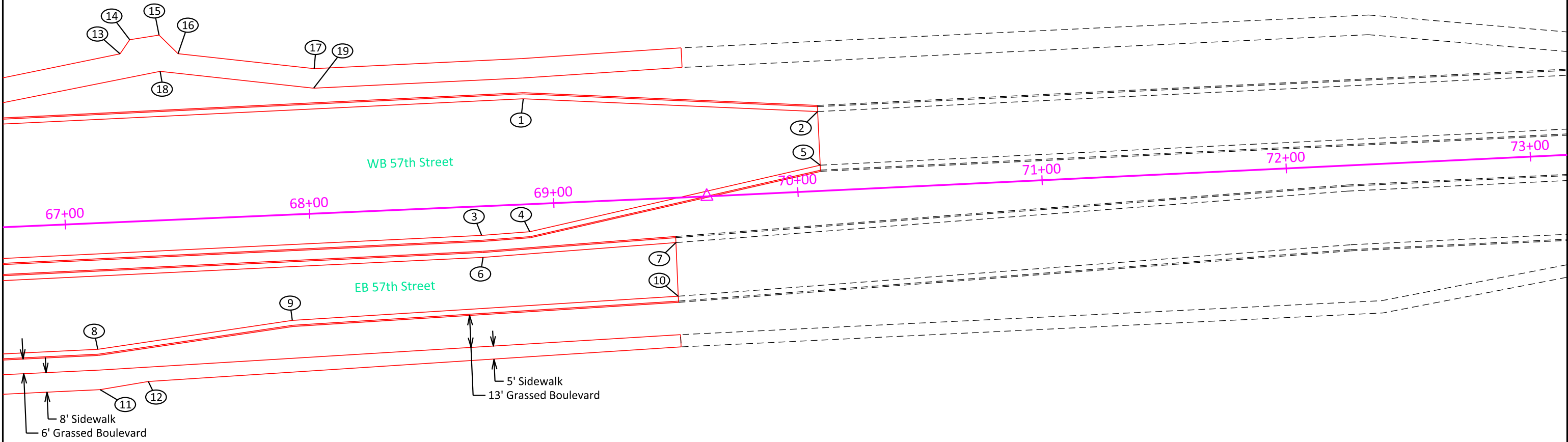
⑧ 67+11.05- 51.63' R  
End Str Type B610 C&G  
Begin Str Type B610 C&G  
TC El: 1427.62

⑨ 67+91.05- 43.26' R  
End Str Type B610 C&G  
Begin Str Type B610 C&G  
TC El: 1427.15

⑩ 69+49.24- 40.32' R  
End Str Type B610 C&G  
TC El: 1426.11

⑪ 67+11.25- 68.13' R  
Edge of Sidewalk  
TC El: 1427.85

⑫ 67+31.10- 65.70' R  
Edge of Sidewalk  
TC El: 1427.71



- ⑬ 67+25.44- 68.78' L  
Edge of Sidewalk  
TC El: 1429.13

⑭ 67+29.65- 74.41' L  
Edge of Sidewalk  
TC El: 1429.19

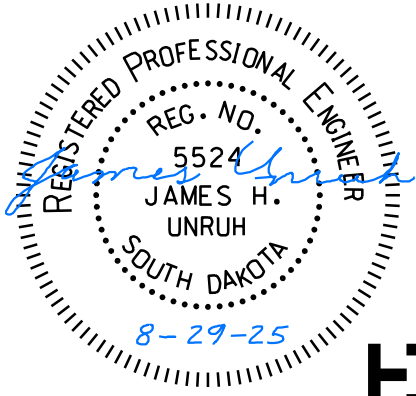
⑮ 67+41.67- 75.76' L  
Edge of Sidewalk  
TC El: 1429.06

⑯ 67+49.16- 67.83' L  
Edge of Sidewalk  
TC El: 1428.78

⑰ 68+04.51- 59.30' L  
Edge of Sidewalk  
TC El: 1427.30

⑱ 67+41.49- 60.92' L  
Edge of Sidewalk  
TC El: 1428.80

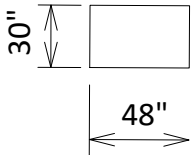
⑲ 68+03.91- 51.30' L  
Edge of Sidewalk  
TC El: 1427.18





Legend

- \* Turning Space with 1.5% (2% max.) slope
- \*\* Curb Ramp with 7.5% slope and 1.5% cross slope



30"x48" Clear Space for Pedestrian  
Push Button Poles  
(2% max. for longitudinal and cross slopes)

- ① STA 1122+75.94-49.51' LT  
Edge of Sidewalk  
TS EL: 1435.03
- ② STA 1122+87.38-51.50' LT  
Begin Drop Curb at Ramp  
TS EL: 1434.92
- ③ STA 1122+86.37-49.51' LT  
End Drop Curb at Ramp  
TS EL: 1434.93
- ④ STA 1122+80.77-45.12' LT  
Ramp Location  
TS EL: 1434.96
- ⑤ STA 1122+79.83-41.46' LT  
End Drop Curb at Ramp  
TS EL: 1434.95
- ⑥ STA 1122+77.27-39.51' LT  
Begin Drop Curb at Ramp  
TS EL: 1434.95
- ⑦ STA 1122+75.83-41.50' LT  
Edge of Sidewalk  
TS EL: 1434.98

FOR BIDDING PURPOSES ONLY

# CURB RAMP DETAILS

## 69th Street & Huntwood Avenue

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1441(00) & P 1432(00) | B125  | B174            |

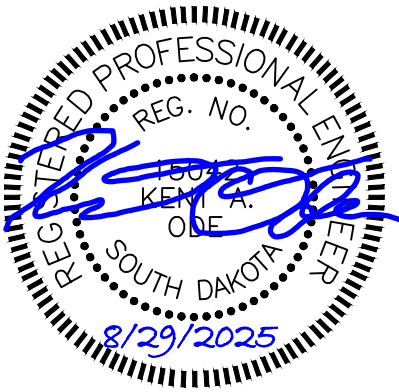
FILE: C&G\_  
PLOT DATE: 8/26/2025

REV DATE:  
INITIAL:



Proposed Huntwood Avenue

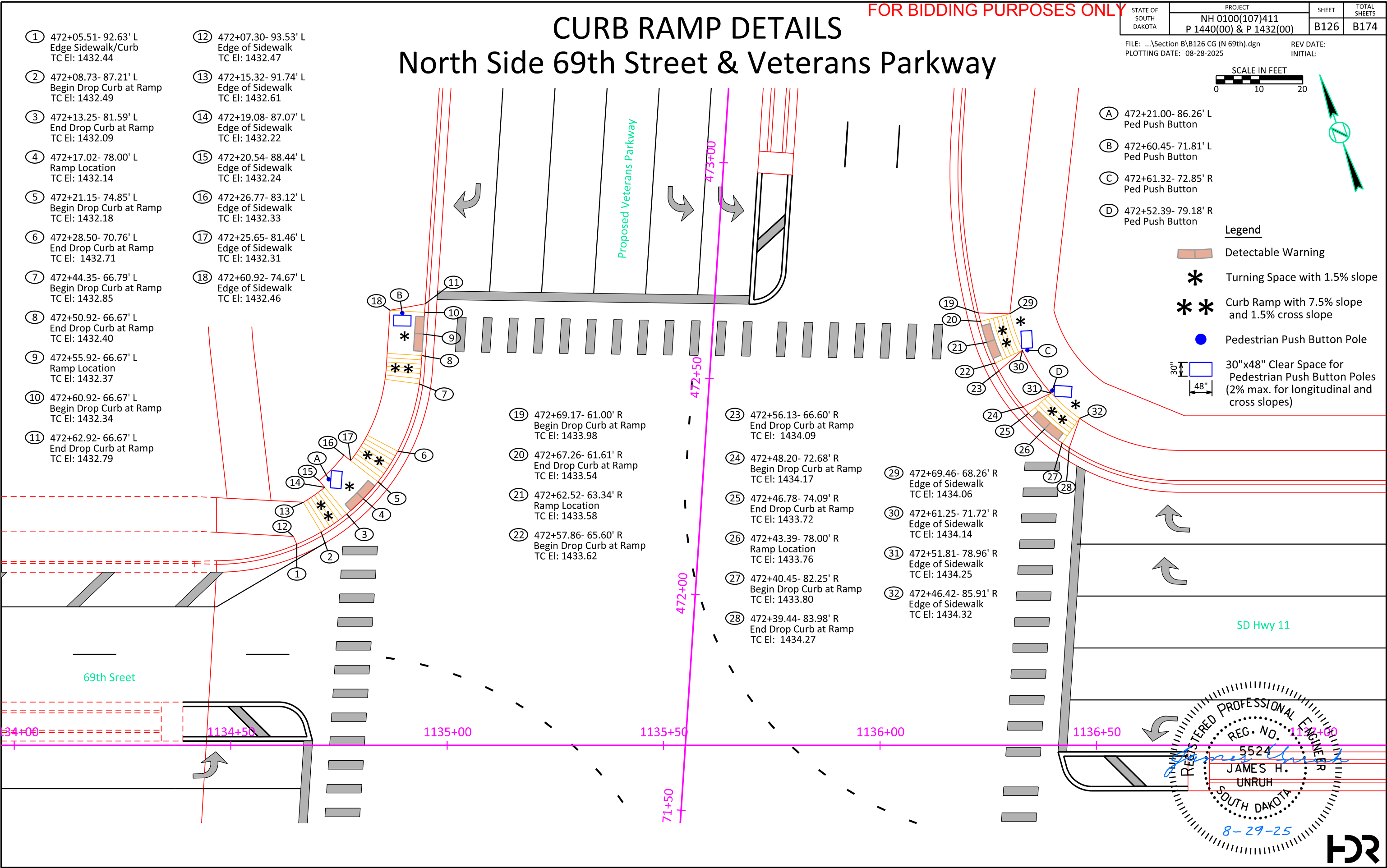
- ⑧ STA 1123+42.22-49.50' LT  
Begin Drop Curb at Ramp  
TS EL: 1435.11
- ⑨ STA 1123+46.29-47.50' LT  
End Drop Curb at Ramp  
TS EL: 1435.54
- ⑩ STA 1123+40.83-52.82' LT  
Ramp Location  
TS EL: 1435.43
- ⑪ STA 1123+33.51-57.50' LT  
End Drop Curb at Ramp  
TS EL: 1435.17
- ⑫ STA 1123+42.13-57.51' LT  
Edge of Sidewalk  
TS EL: 1435.53
- ⑬ STA 1123+32.19-59.50' LT  
Begin Drop Curb at Ramp  
TS EL: 1435.12



1123+00

Proposed 69th Street





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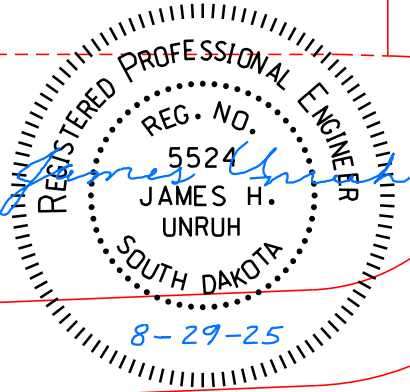
4

3

2

**FOR BIDDING PURPOSES ONLY**

FILE: ...\\Section B\\B127 CG (S 69th).dgn  
PLOTING DATE: 08-28-2025





# CURB RAMP DETAILS

FOR BIDDING PURPOSES ONLY

## North Side SD Hwy 11 & 69th / Co. Rd. 102 Connection

| STATE OF<br>SOUTH<br>DAKOTA                                | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                            | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B128                  | B174            |
| FILE: ...\\B128 CG (N Hwy 11).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



- ① 1146+36.32- 45.27' L  
Begin Drop Curb at Ramp  
TC El: 1421.55
- ② 1146+38.12- 46.04' L  
End Drop Curb at Ramp  
TC El: 1421.06
- ③ 1146+41.77- 47.88' L  
Ramp Location  
TC El: 1421.01
- ④ 1146+45.24- 50.05' L  
Begin Drop Curb at Ramp  
TC El: 1420.95
- ⑤ 1146+46.83- 51.20' L  
End Drop Curb at Ramp  
TC El: 1421.39

- ⑥ 1146+54.36- 58.43' L  
Begin Drop Curb at Ramp  
TC El: 1421.25
- ⑦ 1146+55.59- 59.98' L  
End Drop Curb at Ramp  
TC El: 1420.76
- ⑧ 1146+57.93- 63.38' L  
Ramp Location  
TC El: 1420.71
- ⑨ 1146+59.96- 66.98' L  
Begin Drop Curb at Ramp  
TC El: 1420.65
- ⑩ 1146+60.82- 68.77' L  
End Drop Curb at Ramp  
TC El: 1421.08

- ⑪ 1146+35.40- 52.45' L  
Edge of Sidewalk  
TC El: 1421.59
- ⑫ 1146+41.45- 55.86' L  
Edge of Sidewalk  
TC El: 1421.48
- ⑬ 1146+50.26- 64.30' L  
Edge of Sidewalk  
TC El: 1421.29
- ⑭ 1146+54.00- 70.25' L  
Edge of Sidewalk  
TC El: 1421.18

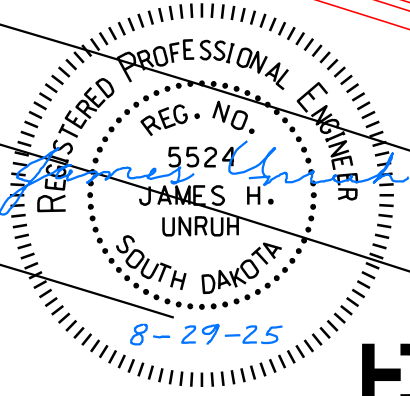
- ⑮ 1147+23.10- 77.30' L  
Edge Sidewalk/Curb  
TC El: 1420.68
- ⑯ 1147+27.98- 70.88' L  
Begin Drop Curb at Ramp  
TC El: 1420.74
- ⑰ 1147+32.58- 66.07' L  
End Drop Curb at Ramp  
TC El: 1420.34
- ⑱ 1147+35.60- 63.42' L  
Ramp Location  
TC El: 1420.37
- ⑲ 1147+41.45- 59.13' L  
High Point  
TC El: 1420.43
- ⑳ 1147+50.54- 54.26' L  
Ramp Location  
TC El: 1420.37
- ㉑ 1147+54.30- 52.77' L  
Begin Drop Curb at Ramp  
TC El: 1420.35
- ㉒ 1147+60.61- 50.89' L  
End Drop Curb at Ramp  
TC El: 1420.78
- ㉓ 1147+67.21- 49.67' L  
Edge Sidewalk/Curb  
TC El: 1420.74

- ㉔ 1147+24.67- 78.44' L  
Edge of Sidewalk  
TC El: 1420.71
- ㉕ 1147+33.40- 76.57' L  
Edge of Sidewalk  
TC El: 1420.86
- ㉖ 1147+62.38- 58.68' L  
Edge of Sidewalk  
TC El: 1420.89
- ㉗ 1147+81.23- 63.17' L  
Edge of Sidewalk  
TC El: 1420.90
- ㉘ 1147+67.45- 51.66' L  
Edge of Sidewalk  
TC El: 1420.77
- ㉙ 1147+82.14- 55.17' L  
Edge of Sidewalk  
TC El: 1420.78

- A 1146+41.09- 56.64' L  
Ped Push Button
- B 1146+49.67- 64.81' L  
Ped Push Button
- C 1147+38.74- 70.16' L  
Ped Push Button
- D 1147+54.70- 60.19' L  
Ped Push Button

### Legend

- Detectable Warning
- Turning Space with 1.5% slope
- Curb Ramp with 7.5% slope and 1.5% cross slope
- Pedestrian Push Button Pole
- 30"x48" Clear Space for Pedestrian Push Button Poles (2% max. for longitudinal and cross slopes)

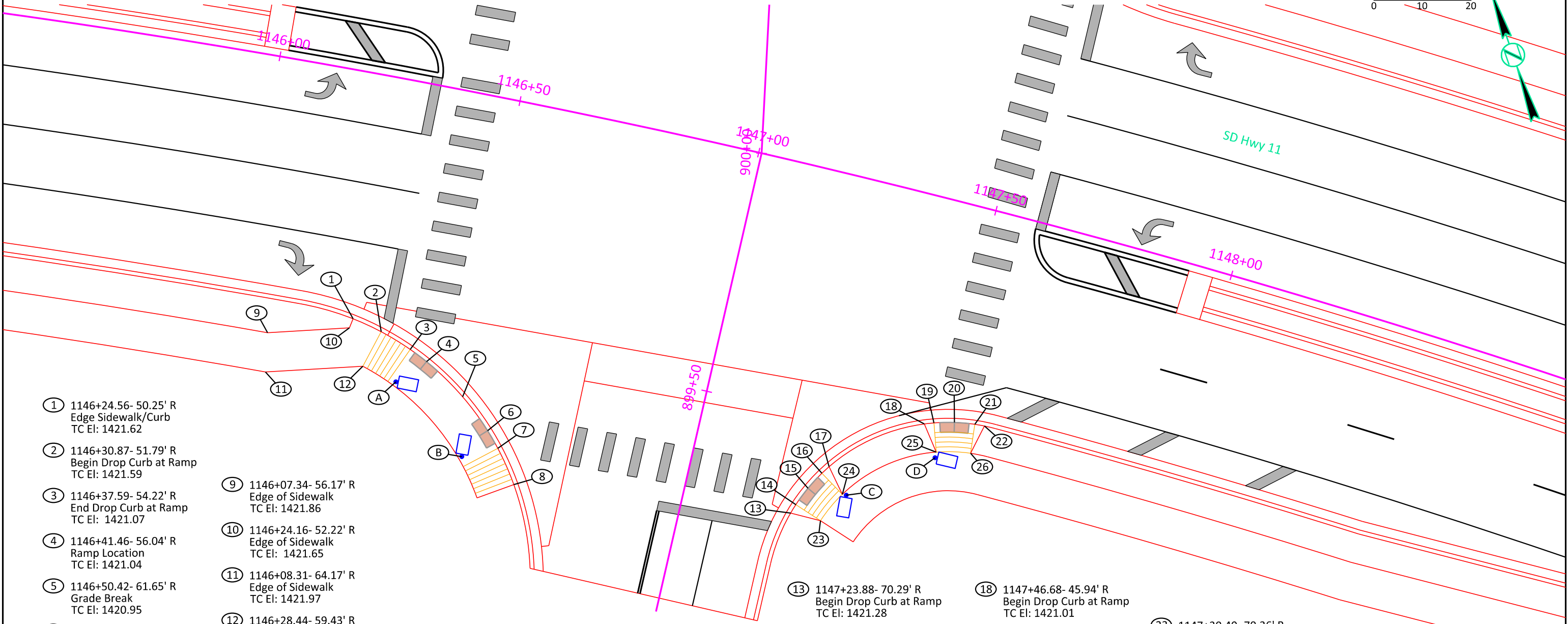


# CURB RAMP DETAILS

## South Side SD Hwy 11 & 69th / Co. Rd. 102 Connection

FOR BIDDING PURPOSES ONLY

| STATE OF SOUTH DAKOTA                                      | PROJECT<br>NH 0100(107)411<br>P 1440(00) & P 1432(00) | SHEET<br>B129         | TOTAL SHEETS<br>B174 |
|------------------------------------------------------------|-------------------------------------------------------|-----------------------|----------------------|
| FILE: ...\\B129 CG SN Hwy 11).dgn<br>PLOT DATE: 08-28-2025 |                                                       | REV DATE:<br>INITIAL: |                      |

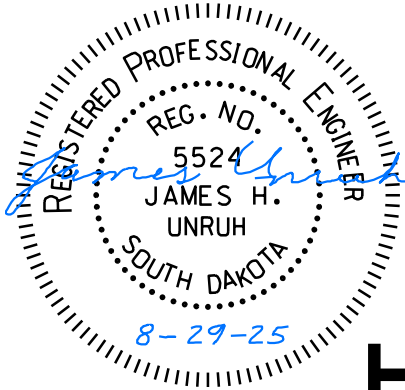


- ① 1146+24.56- 50.25' R  
Edge Sidewalk/Curb  
TC El: 1421.62
- ② 1146+30.87- 51.79' R  
Begin Drop Curb at Ramp  
TC El: 1421.59
- ③ 1146+37.59- 54.22' R  
End Drop Curb at Ramp  
TC El: 1421.07
- ④ 1146+41.46- 56.04' R  
Ramp Location  
TC El: 1421.04
- ⑤ 1146+50.42- 61.65' R  
Grade Break  
TC El: 1420.95
- ⑥ 1146+57.06- 67.44' R  
Ramp Location  
TC El: 1421.02
- ⑦ 1146+59.93- 70.56' R  
Begin Drop Curb at Ramp  
TC El: 1421.06
- ⑧ 1146+64.86- 77.17' R  
End Drop Curb at Ramp  
TC El: 1421.60
- ⑨ 1146+07.34- 56.17' R  
Edge of Sidewalk  
TC El: 1421.86
- ⑩ 1146+24.16- 52.22' R  
Edge of Sidewalk  
TC El: 1421.65
- ⑪ 1146+08.31- 64.17' R  
Edge of Sidewalk  
TC El: 1421.97
- ⑫ 1146+28.44- 59.43' R  
Edge of Sidewalk  
TC El: 1421.70
- (A) 1146+35.91- 61.29' R  
Ped Push Button
- (B) 1146+52.77- 73.69' R  
Ped Push Button
- (C) 1147+34.41- 64.01' R  
Ped Push Button
- (D) 1147+50.65- 52.09' R  
Ped Push Button

**Legend**

- Detectable Warning
- Turning Space with 1.5% slope
- Curb Ramp with 7.5% slope and 1.5% cross slope
- Pedestrian Push Button Pole
- 30"x48" Clear Space for Pedestrian Push Button Poles (2% max. for longitudinal and cross slopes)

- ⑬ 1147+23.88- 70.29' R  
Begin Drop Curb at Ramp  
TC El: 1421.28
- ⑭ 1147+24.51- 68.39' R  
End Drop Curb at Ramp  
TC El: 1420.81
- ⑮ 1147+26.16- 64.52' R  
Ramp Location  
TC El: 1420.78
- ⑯ 1147+28.26- 60.84' R  
Begin Drop Curb at Ramp  
TC El: 1420.74
- ⑰ 1147+29.41- 59.18' R  
End Drop Curb at Ramp  
TC El: 1421.19
- ⑱ 1147+46.68- 45.94' R  
Begin Drop Curb at Ramp  
TC El: 1421.01
- ⑲ 1147+48.60- 45.24' R  
End Drop Curb at Ramp  
TC El: 1420.54
- ⑳ 1147+52.74- 44.10' R  
Ramp Location  
TC El: 1420.51
- ㉑ 1147+56.97- 43.41' R  
Begin Drop Curb at Ramp  
TC El: 1420.47
- ㉒ 1147+59.01- 43.24' R  
End Drop Curb at Ramp  
TC El: 1420.92
- ㉓ 1147+30.40- 70.36' R  
Edge of Sidewalk  
TC El: 1421.26
- ㉔ 1147+33.56- 64.04' R  
Edge of Sidewalk  
TC El: 1421.19
- ㉕ 1147+50.61- 50.92' R  
Edge of Sidewalk  
TC El: 1420.99
- ㉖ 1147+57.66- 49.37' R  
Edge of Sidewalk  
TC El: 1420.92



FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B130  | B174            |

FILE: ...\\Section B\\B130 CG (N 57th).dgn  
PLOT DATE: 08-28-2025

REV DATE:  
INITIAL:



# CURB RAMP DETAILS

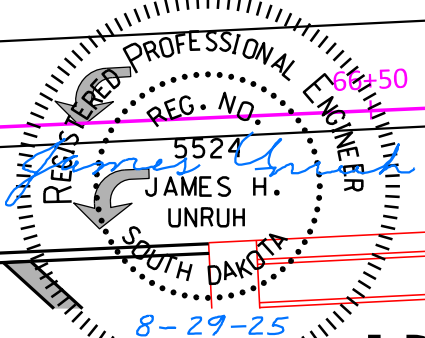
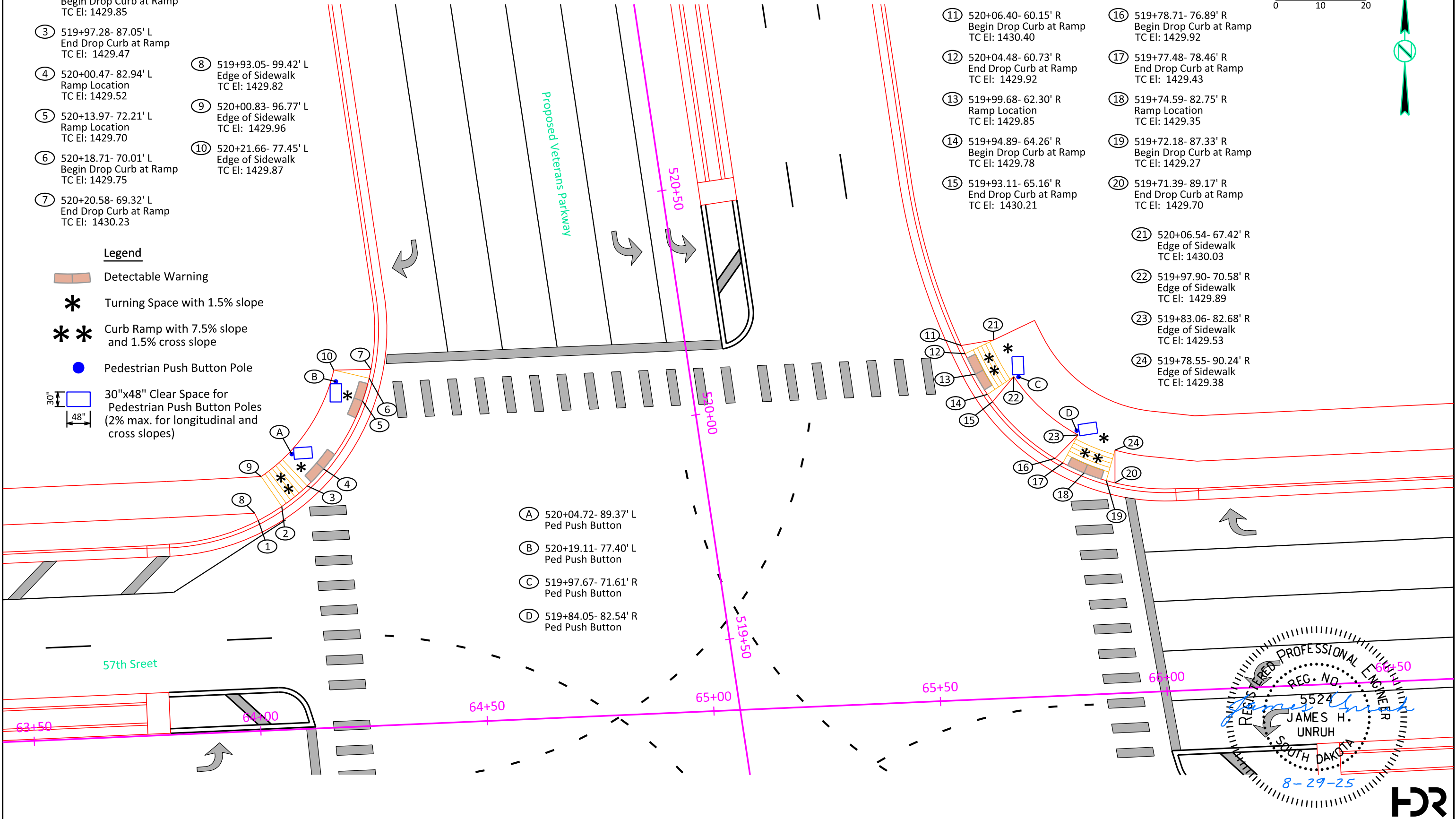
## North Side 57th Street & Veterans Parkway

- ① 519+91.35- 98.84' L  
Edge Sidewalk/Curb  
TC El: 1429.79
- ② 519+93.64- 93.27' L  
Begin Drop Curb at Ramp  
TC El: 1429.85
- ③ 519+97.28- 87.05' L  
End Drop Curb at Ramp  
TC El: 1429.47
- ④ 520+00.47- 82.94' L  
Ramp Location  
TC El: 1429.52
- ⑤ 520+13.97- 72.21' L  
Ramp Location  
TC El: 1429.70
- ⑥ 520+18.71- 70.01' L  
Begin Drop Curb at Ramp  
TC El: 1429.75
- ⑦ 520+20.58- 69.32' L  
End Drop Curb at Ramp  
TC El: 1430.23
- ⑧ 519+93.05- 99.42' L  
Edge of Sidewalk  
TC El: 1429.82
- ⑨ 520+00.83- 96.77' L  
Edge of Sidewalk  
TC El: 1429.96
- ⑩ 520+21.66- 77.45' L  
Edge of Sidewalk  
TC El: 1429.87

- ⑪ 520+06.40- 60.15' R  
Begin Drop Curb at Ramp  
TC El: 1430.40
- ⑫ 520+04.48- 60.73' R  
End Drop Curb at Ramp  
TC El: 1429.92
- ⑬ 519+99.68- 62.30' R  
Ramp Location  
TC El: 1429.85
- ⑭ 519+94.89- 64.26' R  
Begin Drop Curb at Ramp  
TC El: 1429.78
- ⑮ 519+93.11- 65.16' R  
End Drop Curb at Ramp  
TC El: 1430.21
- ⑯ 519+78.71- 76.89' R  
Begin Drop Curb at Ramp  
TC El: 1429.92
- ⑰ 519+77.48- 78.46' R  
End Drop Curb at Ramp  
TC El: 1429.43
- ⑱ 519+74.59- 82.75' R  
Ramp Location  
TC El: 1429.35
- ⑲ 519+72.18- 87.33' R  
Begin Drop Curb at Ramp  
TC El: 1429.27
- ⑳ 519+71.39- 89.17' R  
End Drop Curb at Ramp  
TC El: 1429.70
- ㉑ 520+06.54- 67.42' R  
Edge of Sidewalk  
TC El: 1430.03
- ㉒ 519+97.90- 70.58' R  
Edge of Sidewalk  
TC El: 1429.89
- ㉓ 519+83.06- 82.68' R  
Edge of Sidewalk  
TC El: 1429.53
- ㉔ 519+78.55- 90.24' R  
Edge of Sidewalk  
TC El: 1429.38

### Legend

- Detectable Warning
- Turning Space with 1.5% slope
- Curb Ramp with 7.5% slope and 1.5% cross slope
- Pedestrian Push Button Pole
- 30"x48" Clear Space for Pedestrian Push Button Poles (2% max. for longitudinal and cross slopes)





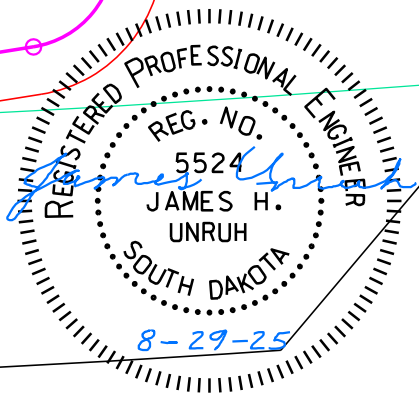
**FOR BIDDING PURPOSES ONLY**

FILE: ...\\Section B\\B131 CG (S 57th).dgn      REV DATE:  
PLOTING DATE: 08-28-2025      INITIAL:



**FOR BIDDING PURPOSES ONLY**

FILE: ...\\B132 (Ped Underpass 449+00).dgn  
PLOTting DATE: 08-28-2025

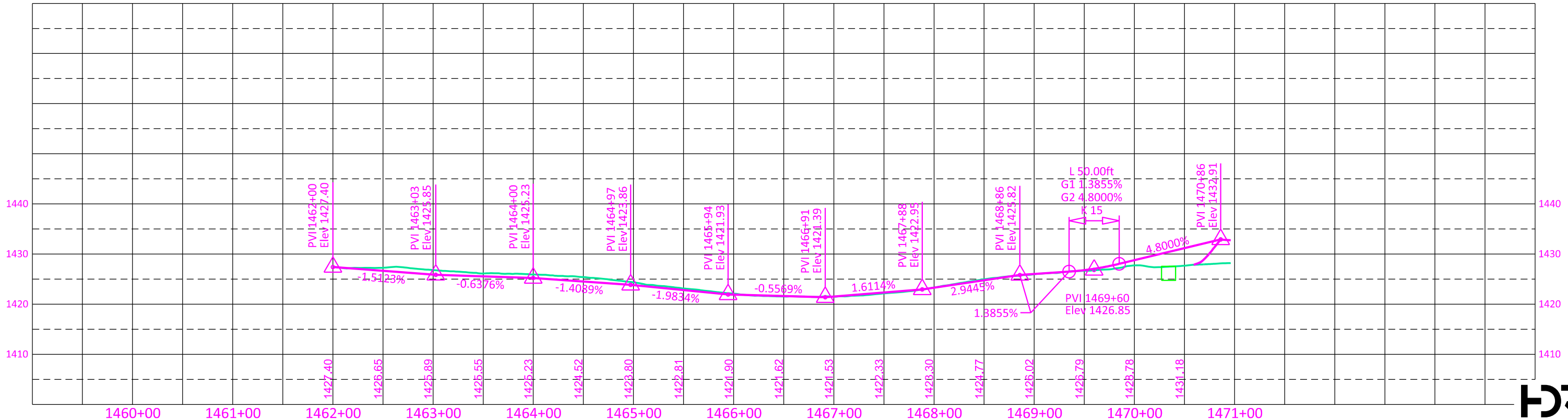
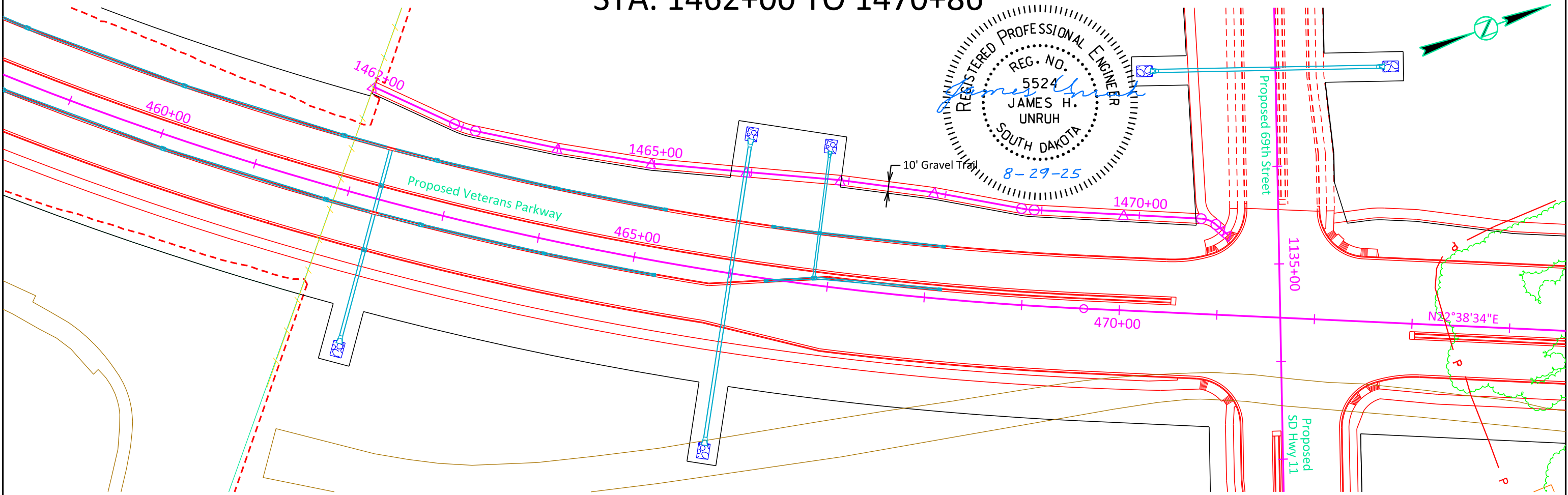
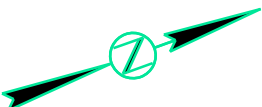
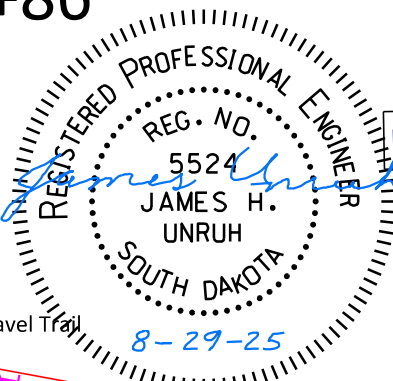


# GRAVEL TRAIL #1 DETAIL

## STA. 1462+00 TO 1470+86

FOR BIDDING PURPOSES ONLY

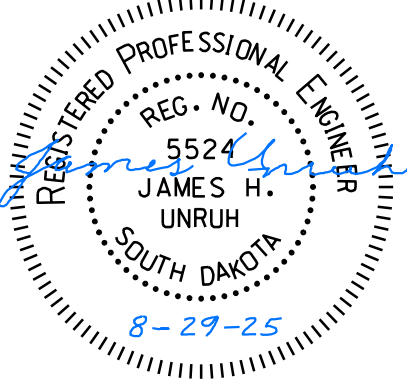
|                                                                |                                            |                       |                 |
|----------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                    | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B133                  | B174            |
| FILE: ...\\B133 (Gravel Trail #1).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |



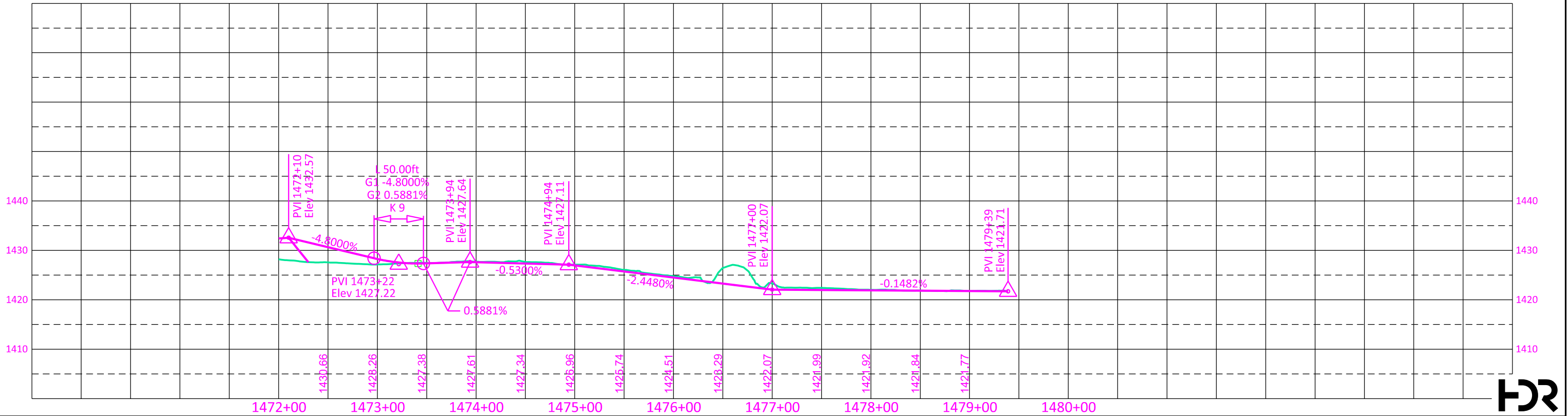
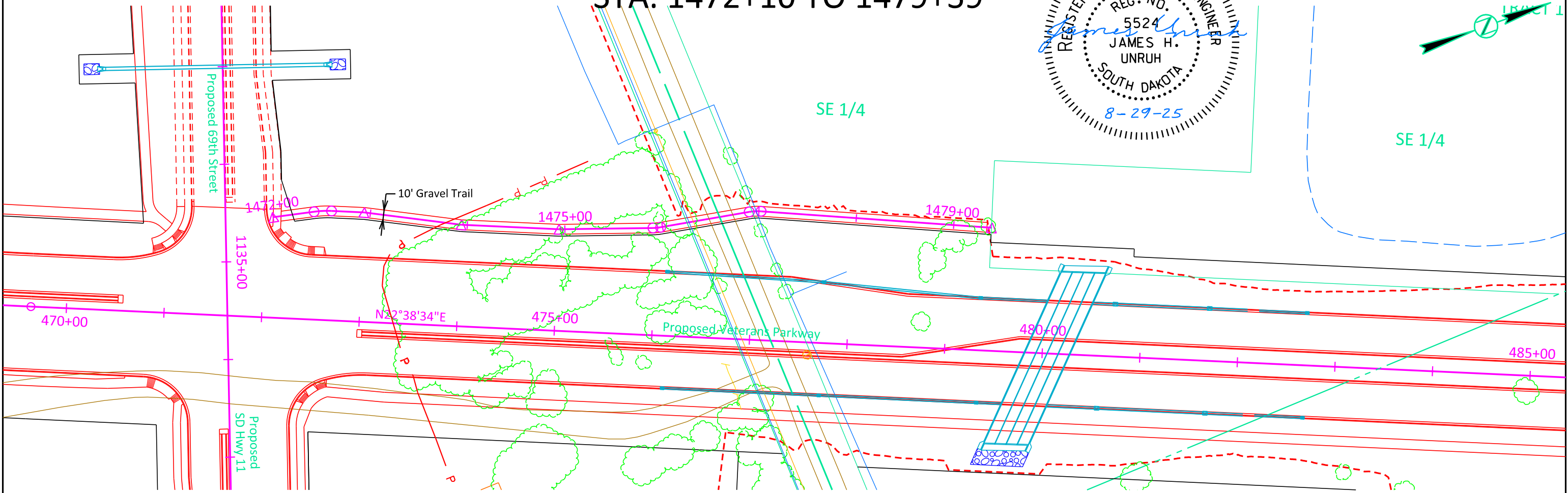


# GRAVEL TRAIL #2 DETAIL STA. 1472+10 TO 1479+39

FOR BIDDING PURPOSES ONLY



| STATE OF<br>SOUTH<br>DAKOTA                                    | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|----------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B134                  | B174            |
| FILE: ...\\B134 (Gravel Trail #2).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

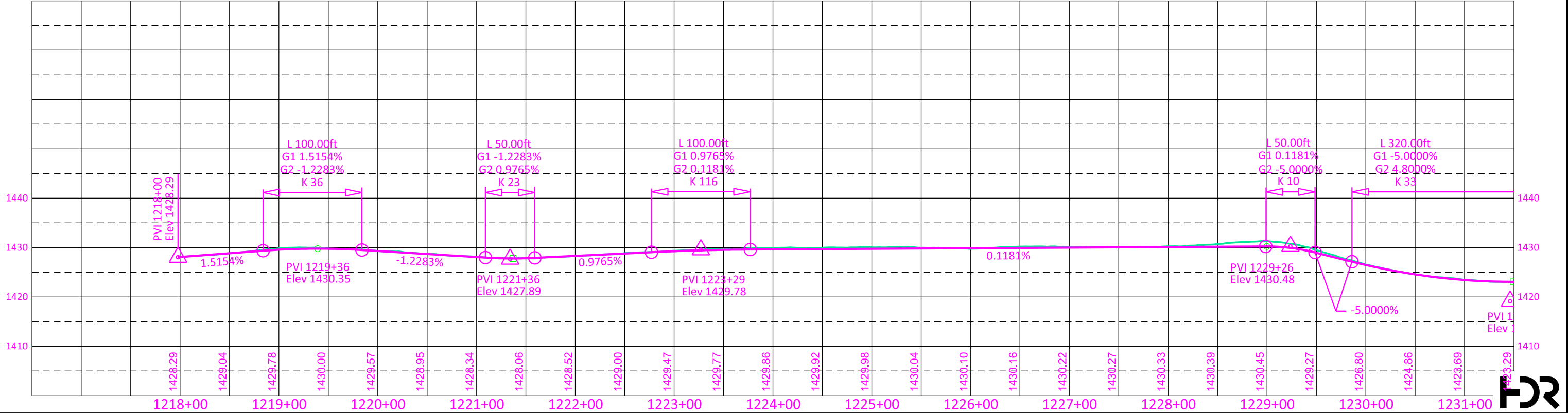
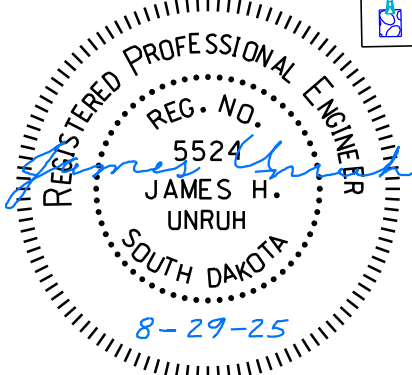
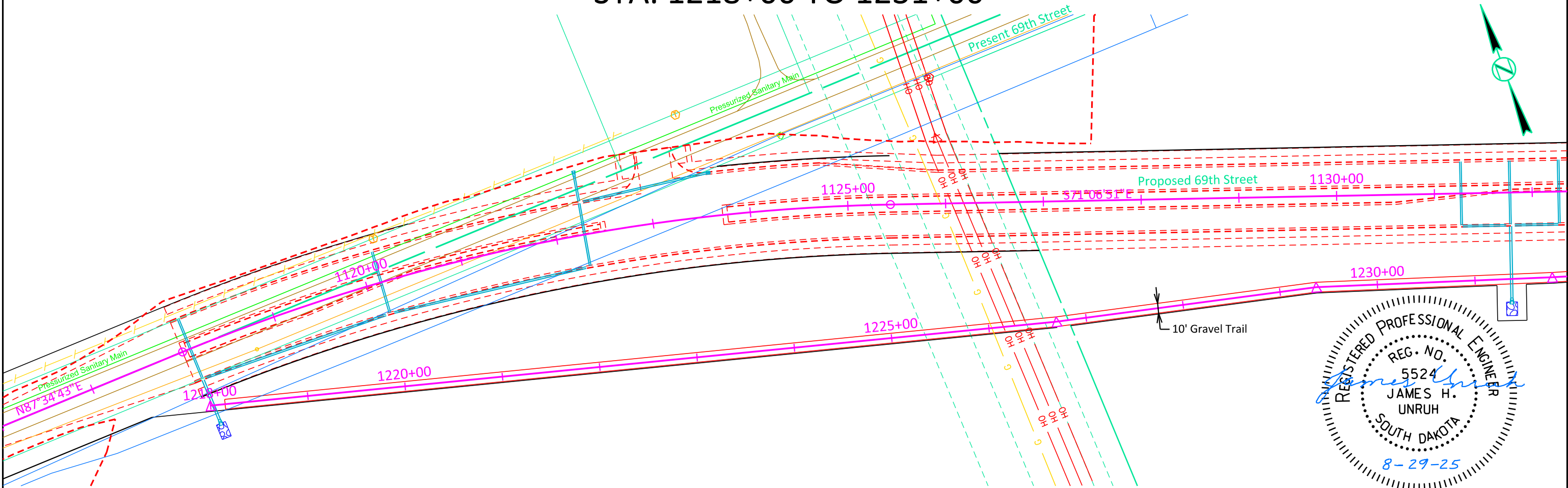


# GRAVEL TRAIL #3 DETAIL

## STA. 1218+00 TO 1231+00

FOR BIDDING PURPOSES ONLY

|                                                                        |                                            |                       |                 |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B135                  | B174            |
| FILE: ...\\B135-B136 (Gravel Trail #3).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

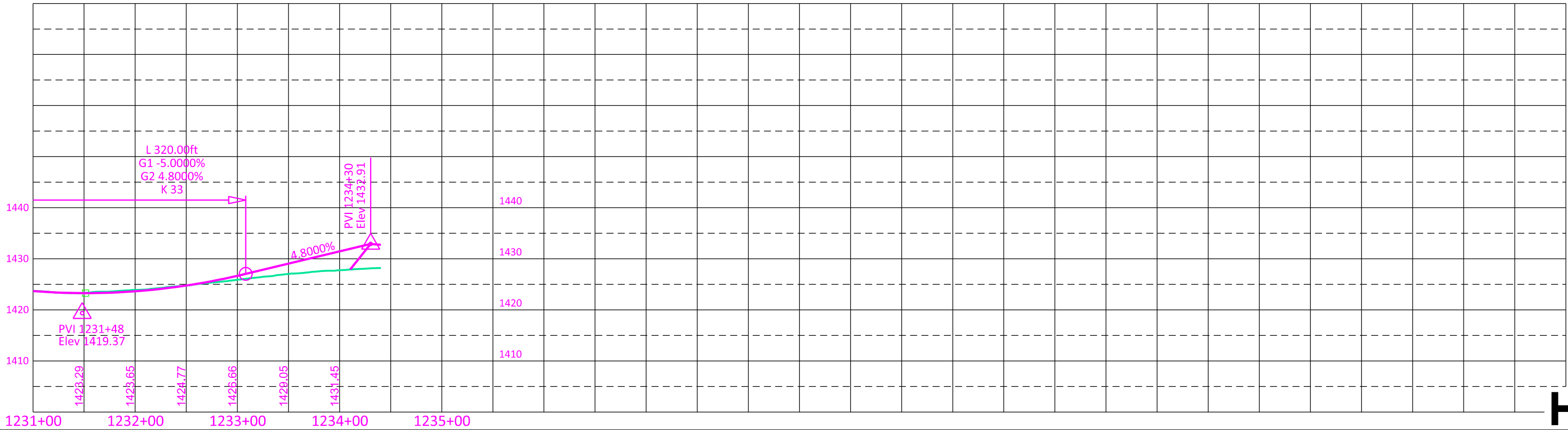
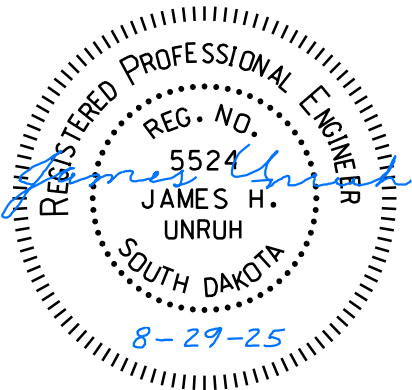
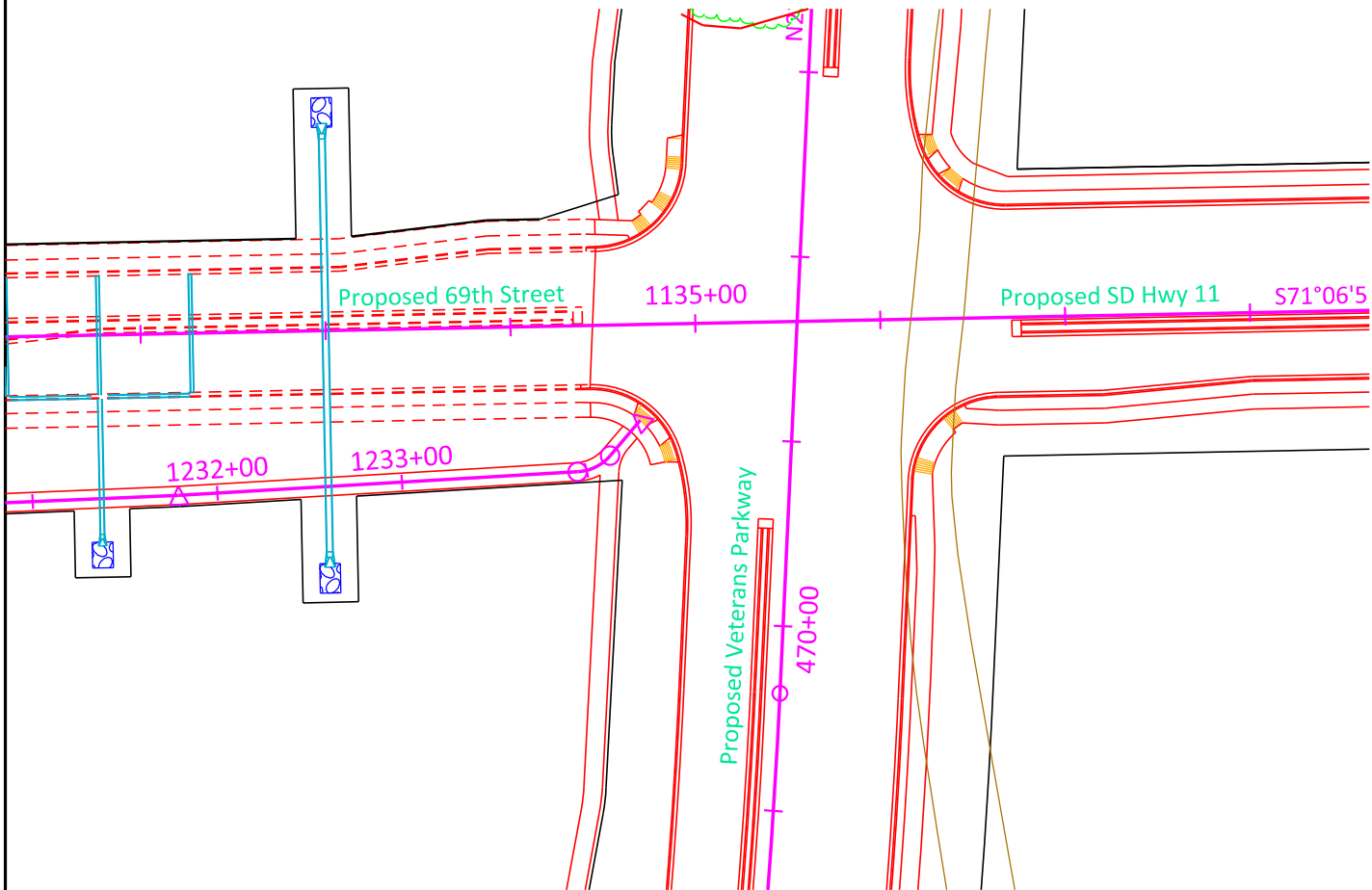


# GRAVEL TRAIL #3 DETAIL

## STA. 1231+00 TO 1234+30

FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B136                  | B174            |
| FILE: ...\\B135-B136 (Gravel Trail #3).dgn<br>PLOTING DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |





465+90 - 901' L to 467+52 - 688' L  
Install 36" -246' Steel Pipe  
Bore and Jack 246' Steel Pipe

South Dakota Dept.  
of Transportation  
Parcel 8-3

# BORROW PIT #5 DRAINAGE DETAIL

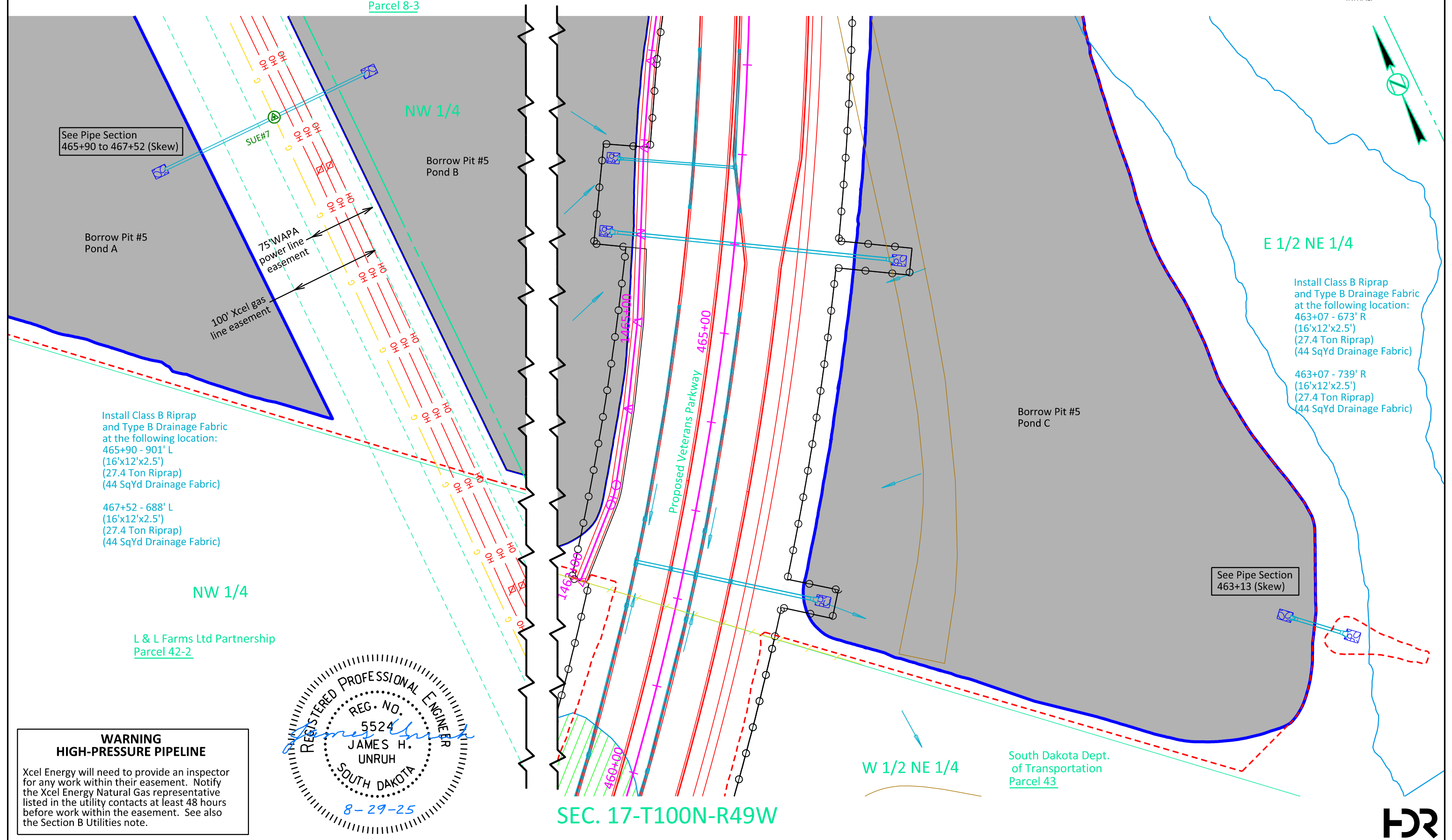
FOR BIDDING PURPOSES ONLY

463+01 - 739' R to 463+07 - 673' R  
Install 36" -50' RC Pipe  
and 2 Flared Ends

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B137  | B174            |

FILE: ...\\B137 (Misc pipes at ponds).dgn  
PLOTING DATE: 08-28-2025

REV DATE:  
INITIAL:



See Pipe Section  
465+90 to 467+52 (Skew)

Borrow Pit #5  
Pond A

75' WAPA  
power line  
easement

100' Xcel gas  
line easement

NW 1/4

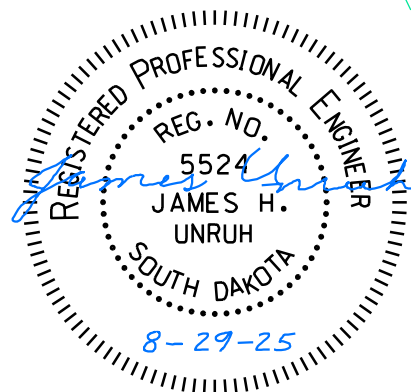
Borrow Pit #5  
Pond B

Install Class B Riprap  
and Type B Drainage Fabric  
at the following location:  
465+90 - 901' L  
(16'x12'x2.5')  
(27.4 Ton Riprap)  
(44 SqYd Drainage Fabric)

467+52 - 688' L  
(16'x12'x2.5')  
(27.4 Ton Riprap)  
(44 SqYd Drainage Fabric)

NW 1/4

L & L Farms Ltd Partnership  
Parcel 42-2



## WARNING HIGH-PRESSURE PIPELINE

Xcel Energy will need to provide an inspector for any work within their easement. Notify the Xcel Energy Natural Gas representative listed in the utility contacts at least 48 hours before work within the easement. See also the Section B Utilities note.

E 1/2 NE 1/4

Install Class B Riprap  
and Type B Drainage Fabric  
at the following location:  
463+07 - 673' R  
(16'x12'x2.5')  
(27.4 Ton Riprap)  
(44 SqYd Drainage Fabric)

463+07 - 739' R  
(16'x12'x2.5')  
(27.4 Ton Riprap)  
(44 SqYd Drainage Fabric)

Borrow Pit #5  
Pond C

See Pipe Section  
463+13 (Skew)

W 1/2 NE 1/4

South Dakota Dept.  
of Transportation  
Parcel 43

SEC. 17-T100N-R49W



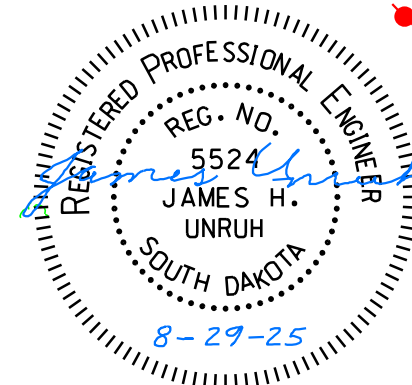
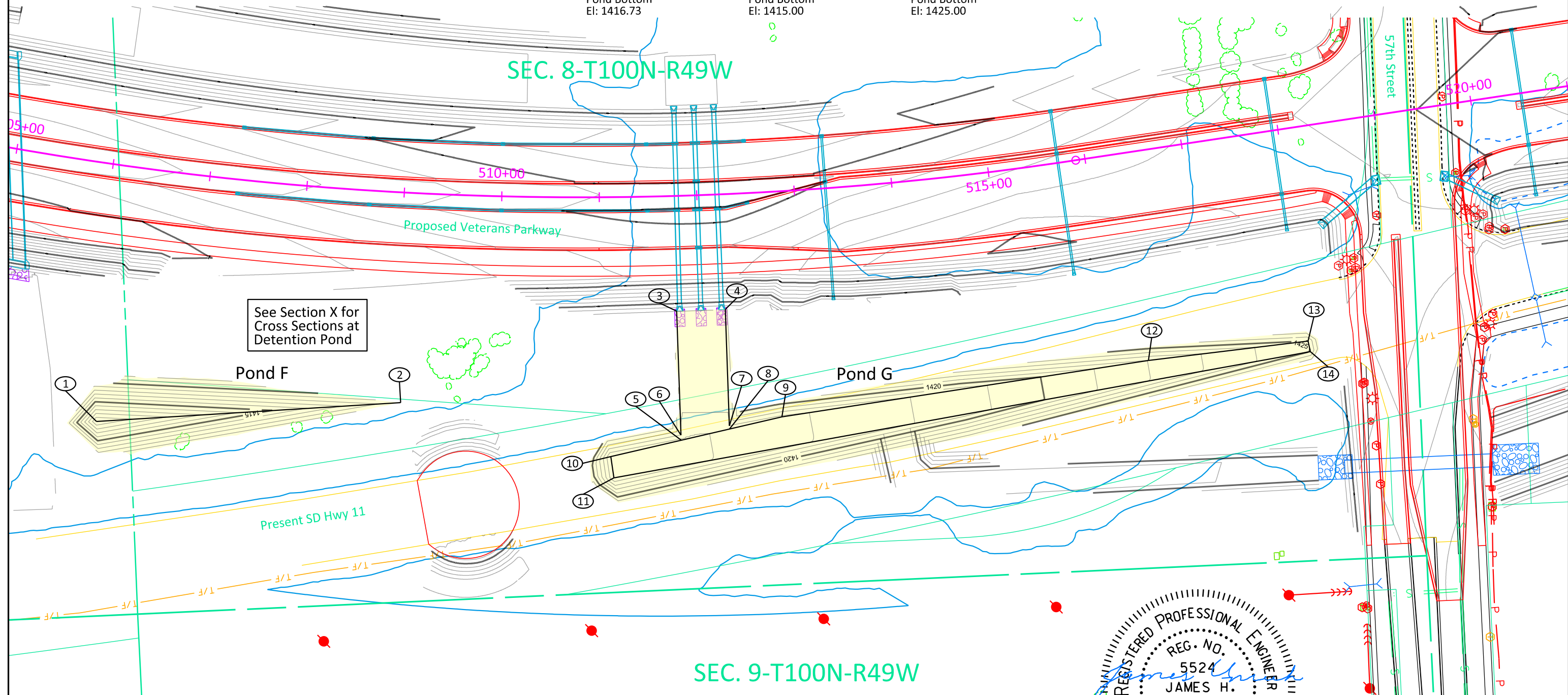
FOR BIDDING PURPOSES ONLY

| STATE OF<br>SOUTH<br>DAKOTA                                            | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
|                                                                        | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B138                  | B174            |
| FILE: ...\\B138 (Det Pond Sta 505 to 519).dgn<br>PLOT DATE: 08-28-2025 |                                            | REV DATE:<br>INITIAL: |                 |

# DETENTION PONDS F & G GRADING DETAIL Sta 505+00 to 518+00

Legend  
Detention Pond

- |                                                      |                                                      |                                                     |                                                     |
|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| ① 506+18.7 - 263.6' R<br>Pond Bottom<br>El: 1410.00  | ⑤ 511+77.0 - 250.3' R<br>Pond Bottom<br>El: 1415.72  | ⑨ 512+74.4 - 230.8' R<br>Pond Bottom<br>El: 1416.73 | ⑬ 517+98.4 - 218.8' R<br>Pond Bottom<br>El: 1425.00 |
| ② 509+07.3 - 215.2' R<br>Pond Bottom<br>El: 1418.65  | ⑥ 511+76.9 - 245.2' R<br>Ditch Bottom<br>El: 1417.00 | ⑩ 511+09.6 - 265.8' R<br>Pond Bottom<br>El: 1415.00 | ⑭ 517+99.0 - 229.8' R<br>Pond Bottom<br>El: 1425.00 |
| ③ 511+76.0 - 118.0' R<br>Ditch Bottom<br>El: 1417.50 | ⑦ 512+23.6 - 237.3' R<br>Ditch Bottom<br>El: 1417.00 | ⑪ 511+12.5 - 287.7' R<br>Pond Bottom<br>El: 1415.00 |                                                     |
| ④ 512+24.4 - 118.0' R<br>Ditch Bottom<br>El: 1417.50 |                                                      | ⑫ 516+33.5 - 214.0' R<br>Pond Bottom<br>El: 1422.02 |                                                     |
|                                                      |                                                      | ⑧ 512+23.6 - 240.6' R<br>Pond Bottom<br>El: 1416.20 |                                                     |





FOR BIDDING PURPOSES ONLY

# DETENTION POND GRADING DETAIL

SD11 Sta 1152+00 to 1157+00

|                                                 |                                            |                       |                 |
|-------------------------------------------------|--------------------------------------------|-----------------------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA                     | PROJECT                                    | SHEET                 | TOTAL<br>SHEETS |
|                                                 | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B139                  | B174            |
| FILE: ...\\B139 (Det Pond Sta 1152 to 1157).dgn |                                            | REV DATE:<br>INITIAL: |                 |
| PLOT DATE: 08-28-2025                           |                                            |                       |                 |

See Section X for Cross Sections  
at Detention Pond

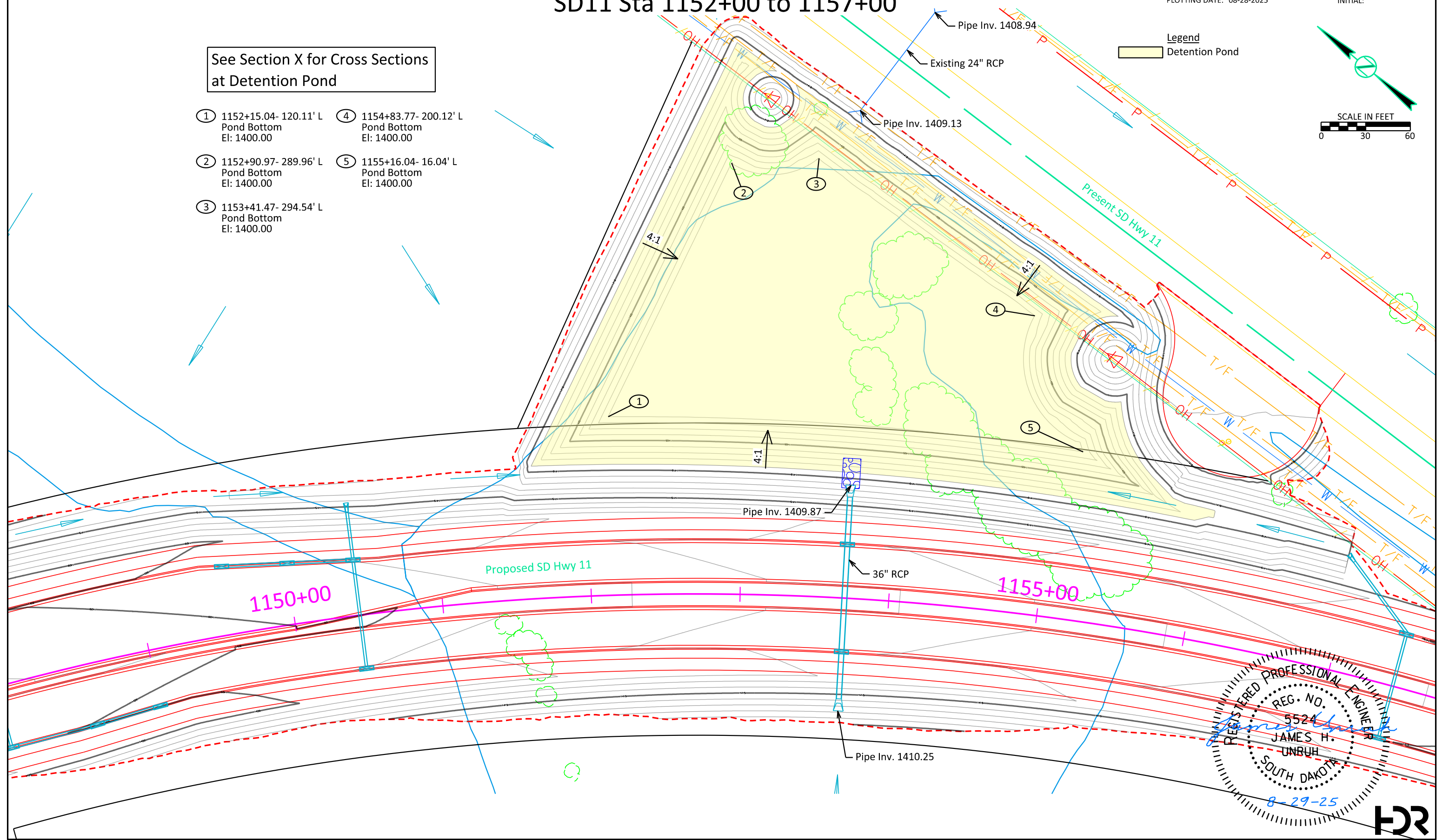
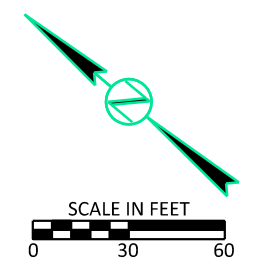
- ① 1152+15.04- 120.11' L  
Pond Bottom  
El: 1400.00

② 1152+90.97- 289.96' L  
Pond Bottom  
El: 1400.00

③ 1153+41.47- 294.54' L  
Pond Bottom  
El: 1400.00
- ④ 1154+83.77- 200.12' L  
Pond Bottom  
El: 1400.00

⑤ 1155+16.04- 16.04' L  
Pond Bottom  
El: 1400.00

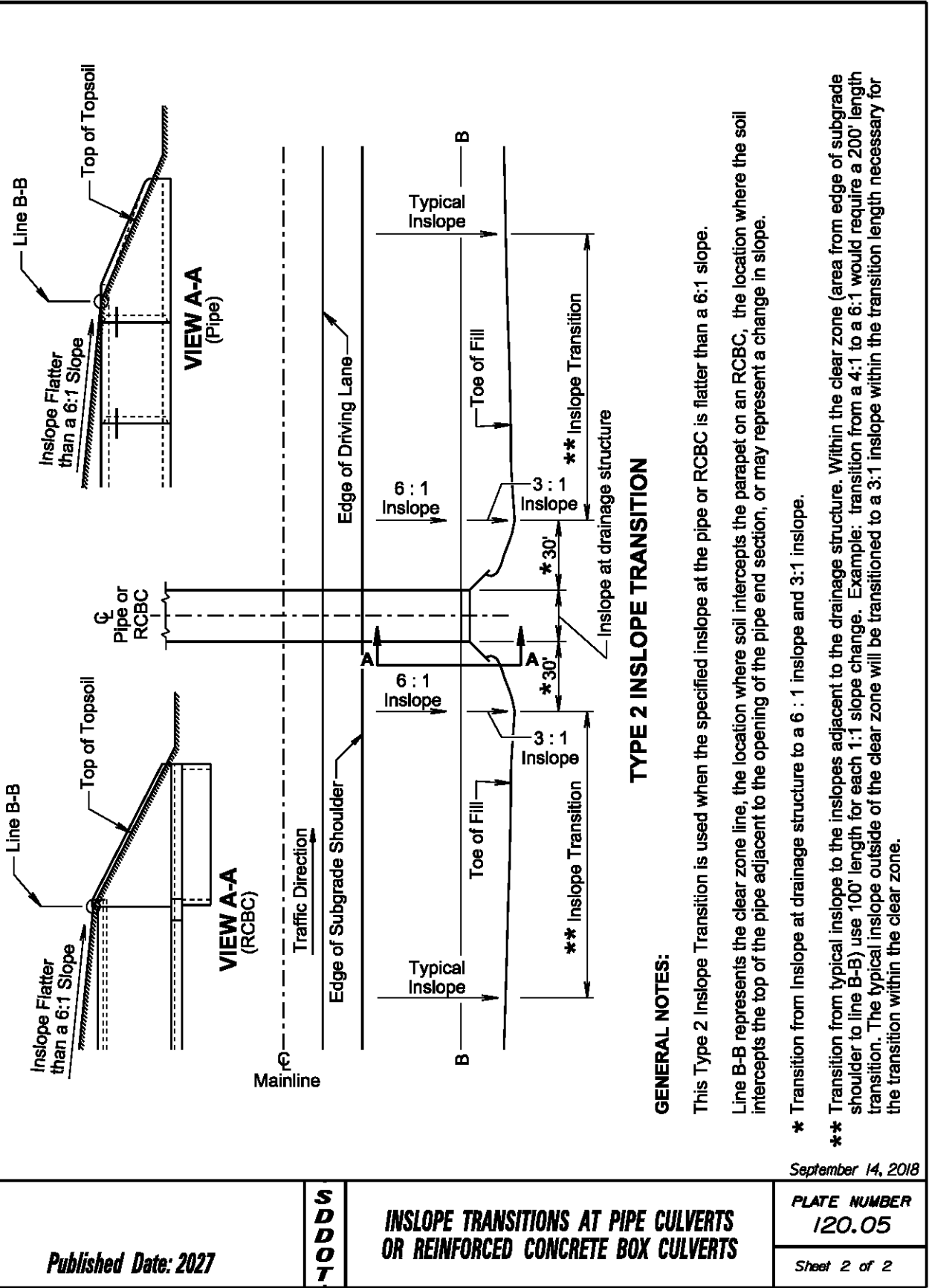
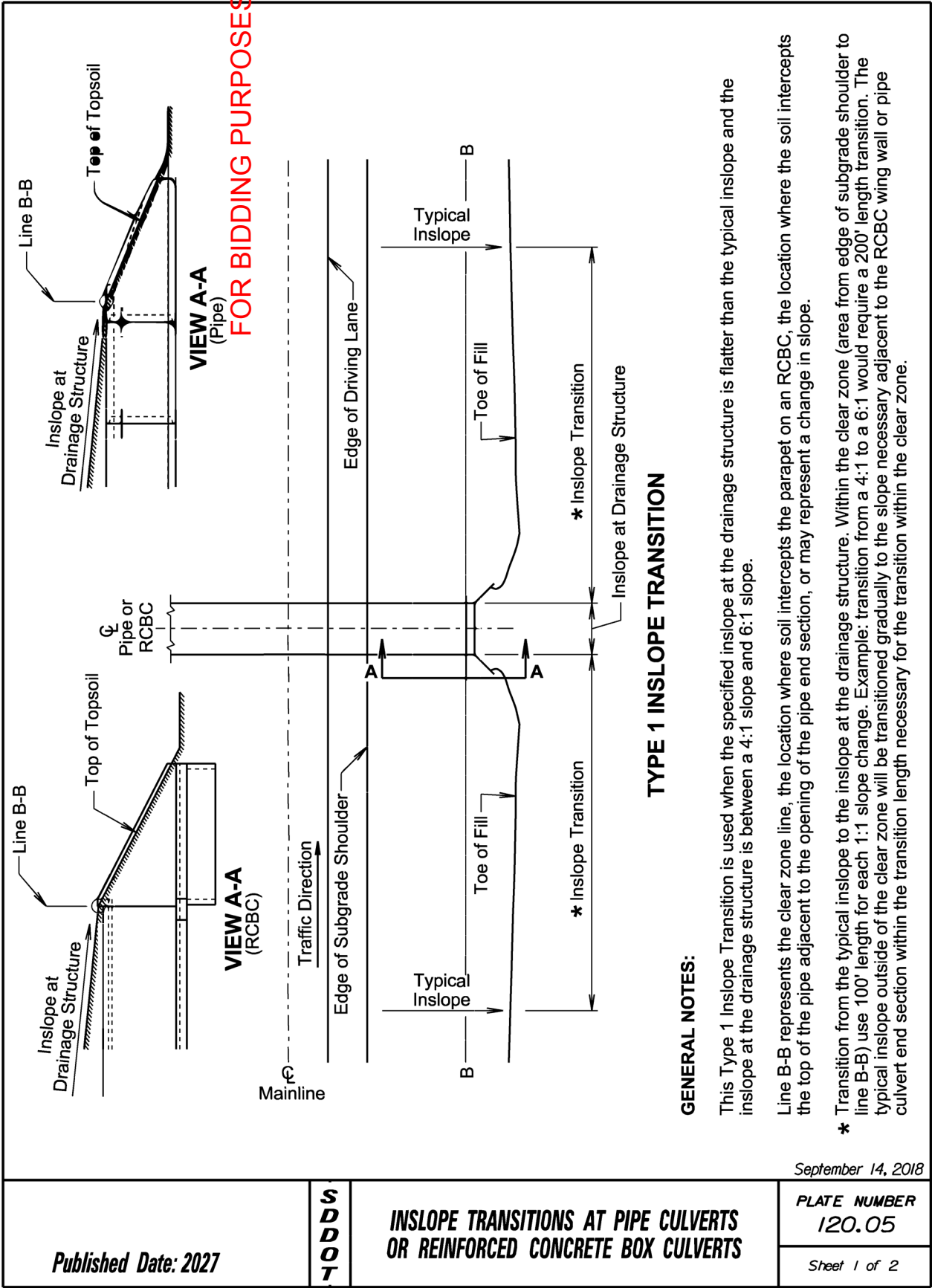
Legend  
Detention Pond

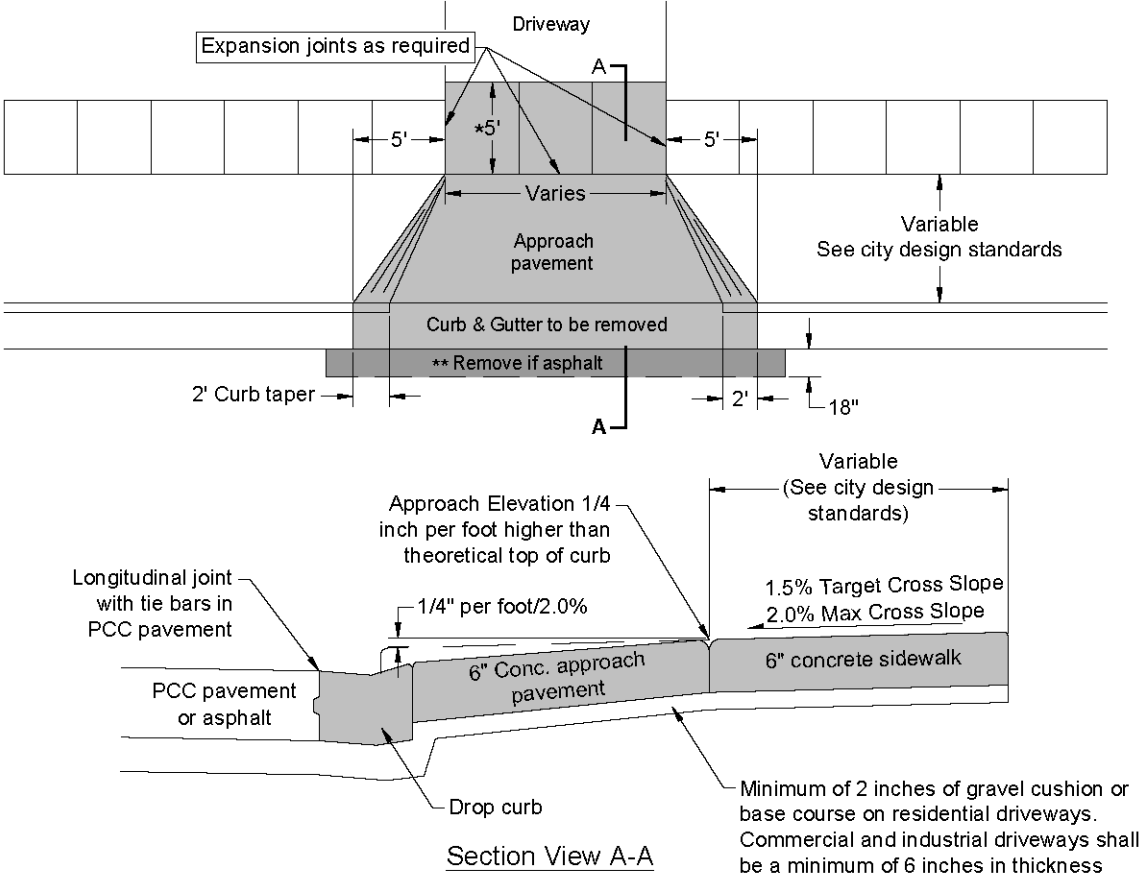


REGISTERED PROFESSIONAL ENGINEER  
REG. NO. 5524  
JAMES H. UNRUH  
SOUTH DAKOTA  
8-29-25









General Notes

- \*On new construction, the sidewalk must be a minimum of 5' wide through the driveway approach to accommodate passing space requirements. When the adjoining sidewalk is less than 5' wide, the additional width through the driveway approach shall be located on the building side of the sidewalk, unless insufficient right of way exists to prevent the sidewalk from being installed entirely in the public right of way. In these cases, install the additional sidewalk width on the street side of the sidewalk
- Permits are required before beginning construction or alteration of any driveway for any project not bid by the city.
- The curb and gutter shall be taken out to the nearest construction joint when the joint is within 4' of the end of that driveway.
- Full depth sawing is required when the curb and gutter is not removed at a construction joint. A clean, neat, and vertical cut through the curb section is required.
- Sidewalks within the driveway limits shall have a minimum thickness of 6" unless otherwise specified.
- Contraction joints shall be formed in the approach pavement by means of a suitable grooving tool. These joints shall have a depth of at least one quarter the thickness of the concrete approach pavement.
- 2" gravel cushion or base course is required under the approach pavement and will be paid for per bid item unless otherwise specified.
- The "Concrete Approach Pavement" will be measured and paid for at the contract unit price per square yard, such price being full compensation for all labor, materials and incidentals in connection with constructing the same.
- The concrete in "Concrete Approach Pavement" shall comply with the requirements of the standard specifications for class M-6 concrete.
- \*\* Subject to approval of the City Engineer, in new developments or other areas where the asphalt street is new it may be possible to install the drop curb adjacent to the driveway without removing the 18" of asphalt if the asphalt is in good condition and free of any spalling as to allow the drop curb to be installed straight and true.

Issued: December 2016



Concrete Approach Pavement

Specification  
Reference  
No. 380

Plate  
Number  
380.01

Published Date: 2027

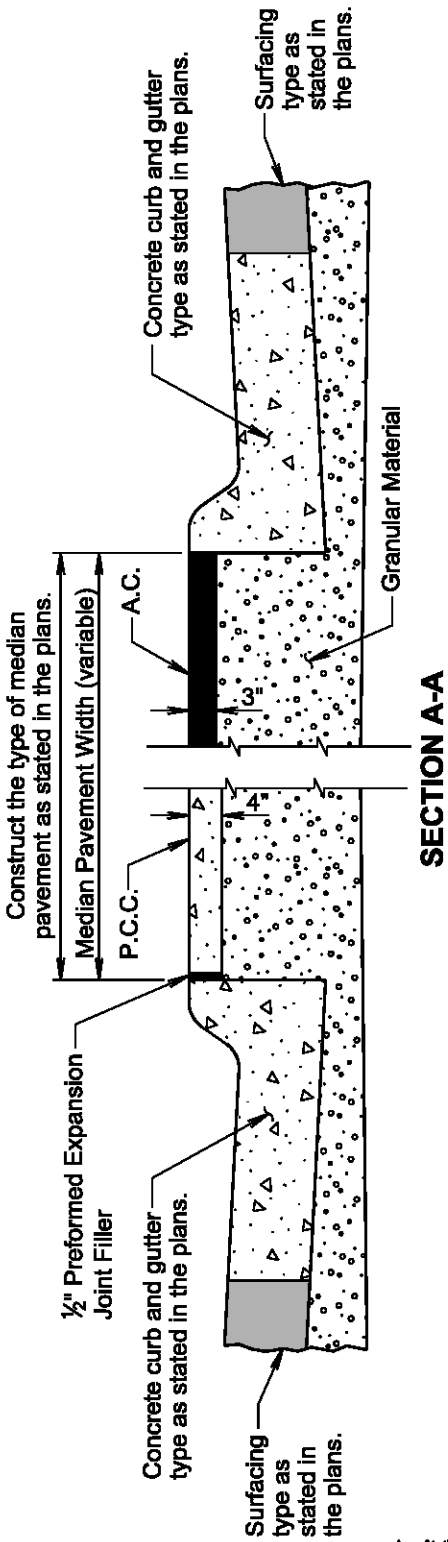
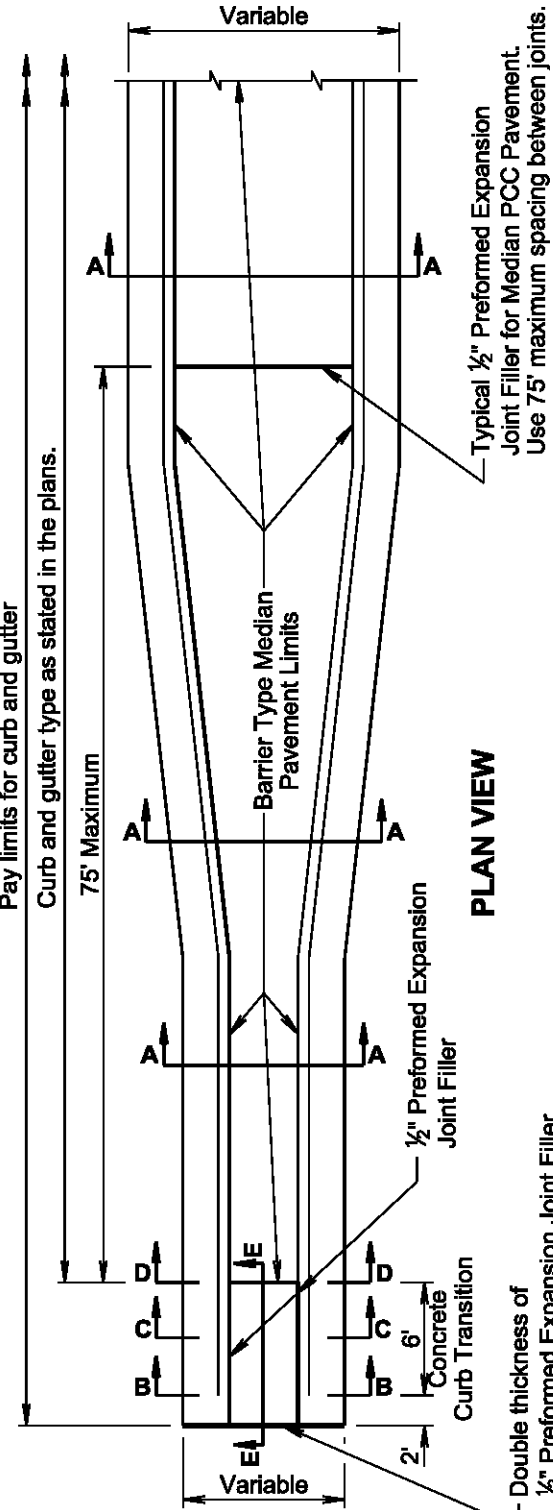
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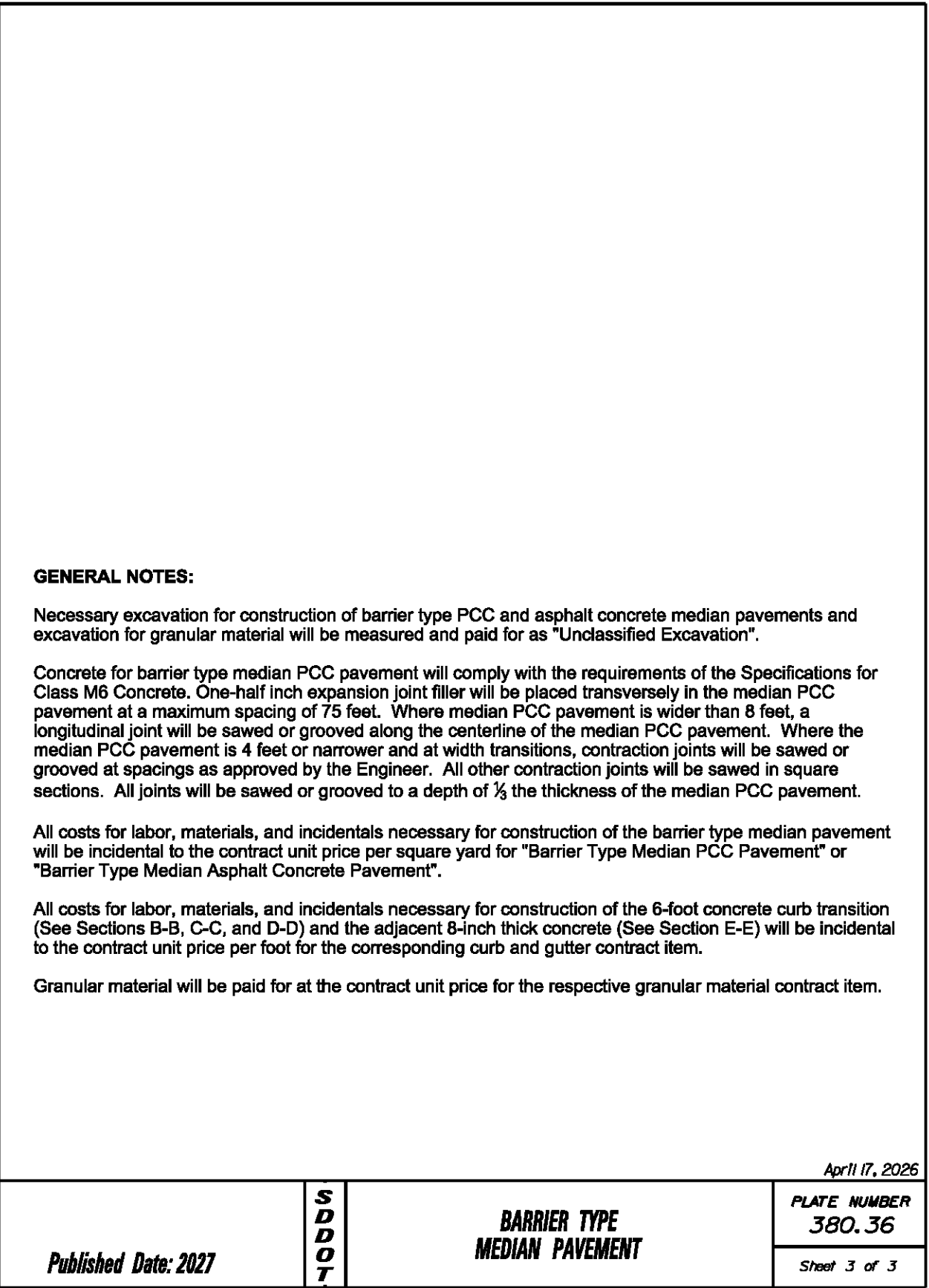
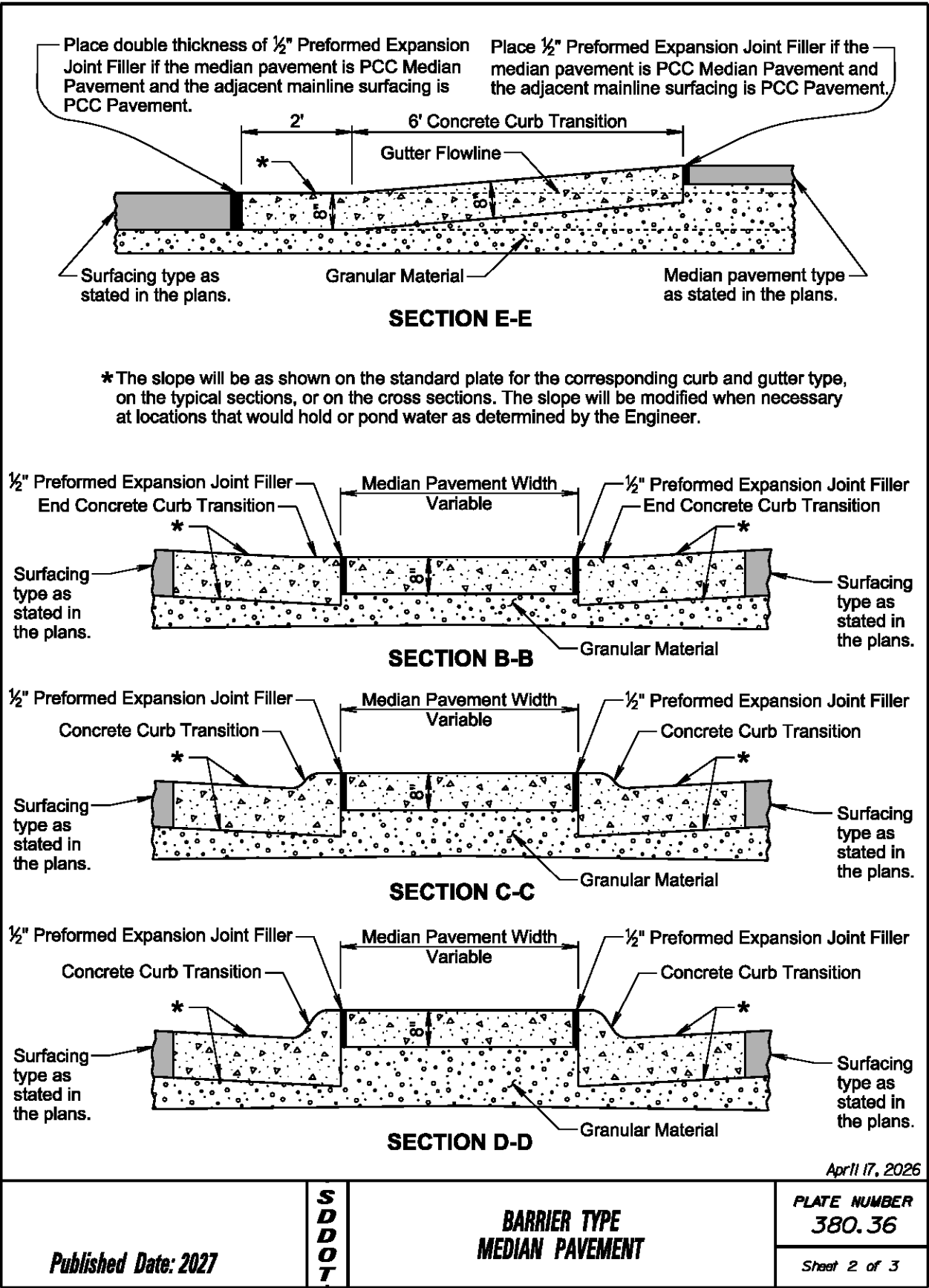
BARRIER TYPE  
MEDIAN PAVEMENT

April 17, 2026

PLATE NUMBER  
380.36

Sheet 1 of 3

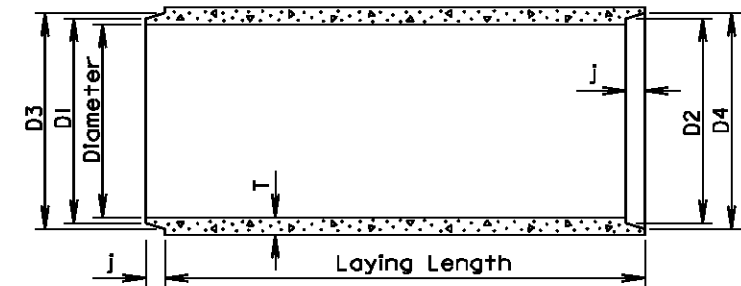




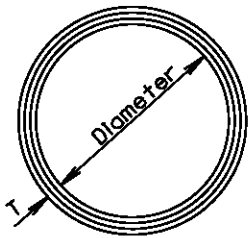


TOLERANCES IN DIMENSIONS

Diameter:  $\pm 1.5\%$  for 24" Dia. or less and  $\pm 1\%$  or  $\frac{3}{8}"$  whichever is more for 27" Dia. or greater.  
Diameters at Joints:  $\pm \frac{3}{16}"$  for 30" Dia. or less and  $\pm \frac{1}{4}"$  for 36" or greater.  
Length of Joint (J):  $\pm \frac{1}{4}"$ .  
Wall thickness (T): not less than design T by more than 5% or  $\frac{3}{16}"$ , whichever is greater.  
Laying length: shall not underrun by more than  $\frac{1}{2}"$ .



LONGITUDINAL SECTION  
(\* Tongue and Groove Style Shown)



END VIEW

GENERAL NOTES:

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

Not more than 2 four-foot sections shall be permitted near the ends of any culvert. Four-foot lengths shall be used only to secure the required length of culvert.

\* Unless otherwise specified in the plans, the RCP may be either tongue and groove or bell and spigot style.

| Diam.<br>(In.) | Approx.<br>Wt./Ft.<br>(lb.) | T<br>(In.) | J<br>(In.) | D1<br>(In.) | D2<br>(In.) | D3<br>(In.) | D4<br>(In.) |
|----------------|-----------------------------|------------|------------|-------------|-------------|-------------|-------------|
| 12             | 92                          | 2          | 1 3/4      | 13 1/4      | 13 5/8      | 13 3/8      | 14 1/4      |
| 15             | 127                         | 2 1/4      | 2          | 16 1/2      | 16 7/8      | 17 1/4      | 17 5/8      |
| 18             | 168                         | 2 1/2      | 2 1/4      | 19 5/8      | 20          | 20 3/8      | 20 3/4      |
| 21             | 214                         | 2 3/4      | 2 1/2      | 22 7/8      | 23 1/4      | 23 3/4      | 24 1/8      |
| 24             | 265                         | 3          | 2 3/4      | 26          | 26 3/8      | 27          | 27 3/8      |
| 27             | 322                         | 3 1/4      | 3          | 29 1/4      | 29 5/8      | 30 1/4      | 30 5/8      |
| 30             | 384                         | 3 1/2      | 3 1/4      | 32 3/8      | 32 3/4      | 33 1/2      | 33 7/8      |
| 36             | 524                         | 4          | 3 3/4      | 38 3/4      | 39 1/4      | 40          | 40 1/2      |
| 42             | 685                         | 4 1/2      | 4          | 45 1/8      | 45 5/8      | 46 1/2      | 47          |
| 48             | 867                         | 5          | 4 1/2      | 51 1/2      | 52          | 53          | 53 1/2      |
| 54             | 1070                        | 5 1/2      | 4 1/2      | 57 1/8      | 58 3/8      | 59 3/8      | 59 7/8      |
| 60             | 1296                        | 6          | 5          | 64 1/4      | 64 3/4      | 66          | 66 1/2      |
| 66             | 1542                        | 6 1/2      | 5 1/2      | 70 5/8      | 71 1/8      | 72 1/2      | 73          |
| 72             | 1810                        | 7          | 6          | 77          | 77 1/2      | 79          | 79 1/2      |
| 78             | 2098                        | 7 1/2      | 6 1/2      | 83 3/8      | 83 3/8      | 85 5/8      | 86 1/8      |
| 84             | 2410                        | 8          | 7          | 89 3/4      | 90 1/4      | 92 1/8      | 92 5/8      |
| 90             | 2740                        | 8 1/2      | 7          | 95 3/4      | 96 1/4      | 98 1/8      | 98 5/8      |
| 96             | 2950                        | 9          | 7          | 102 1/8     | 102 5/8     | 104 1/2     | 105         |
| 102            | 3075                        | 9 1/2      | 7 1/2      | 109         | 109 1/2     | 111 1/2     | 112         |
| 108            | 3870                        | 10         | 7 1/2      | 115 1/2     | 116         | 118         | 118 1/2     |

April 17, 2026

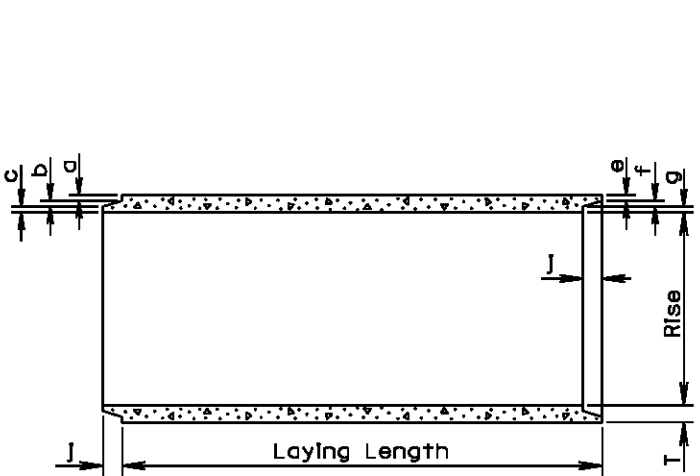
Published Date: 2027

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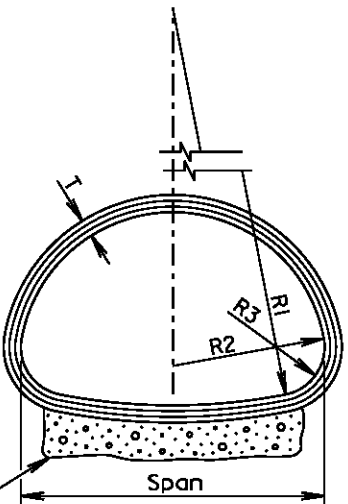
REINFORCED CONCRETE PIPE

PLATE NUMBER  
450.01

Sheet 1 of 1



LONGITUDINAL SECTION



END VIEW

TOLERANCES IN DIMENSIONS

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

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

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

\* Equivalent Diameter of Circular R. C. P.

GENERAL NOTES:

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

June 26, 2015

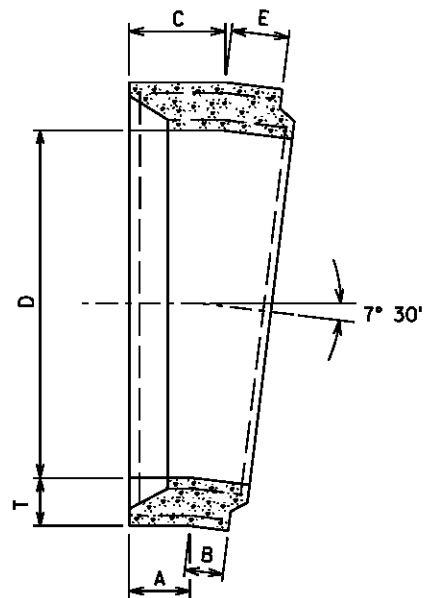
Published Date: 2027

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REINFORCED CONCRETE PIPE ARCH

PLATE NUMBER  
450.02

Sheet 1 of 1



| D<br>(In.) | Laying<br>Length<br>at<br>Center<br>of<br>Pipe<br>(In.) | Laying<br>Length<br>at<br>Outside<br>of<br>Curve<br>(In.) | T<br>(In.)                    | A<br>(In.)                      | B<br>(In.)                     | C<br>(In.)                      | E<br>(In.)                      | Radius<br>of<br>Curve<br>(ft.) | Weight<br>of<br>Section<br>(lbs.) |
|------------|---------------------------------------------------------|-----------------------------------------------------------|-------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| 12         | 7 <sup>3</sup> / <sub>4</sub>                           | 8                                                         | 2                             | 4 <sup>3</sup> / <sub>4</sub>   | 2                              | 5 <sup>3</sup> / <sub>4</sub>   | 3                               | 4.9                            | 70                                |
| 15         | 11 <sup>1</sup> / <sub>4</sub>                          | 12 <sup>1</sup> / <sub>2</sub>                            | 2 <sup>1</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>4</sub>   | 4 <sup>3</sup> / <sub>4</sub>  | 6 <sup>1</sup> / <sub>2</sub>   | 6                               | 7.2                            | 120                               |
| 18         | 12 <sup>1</sup> / <sub>8</sub>                          | 13 <sup>5</sup> / <sub>8</sub>                            | 2 <sup>1</sup> / <sub>2</sub> | 5 <sup>1</sup> / <sub>2</sub>   | 5 <sup>1</sup> / <sub>8</sub>  | 7                               | 6 <sup>5</sup> / <sub>8</sub>   | 7.7                            | 170                               |
| 21         | 9 <sup>1</sup> / <sub>2</sub>                           | 11 <sup>1</sup> / <sub>4</sub>                            | 2 <sup>3</sup> / <sub>4</sub> | 5 <sup>1</sup> / <sub>2</sub>   | 2 <sup>1</sup> / <sub>4</sub>  | 7 <sup>1</sup> / <sub>4</sub>   | 4                               | 6.1                            | 170                               |
| 24         | 9 <sup>13</sup> / <sub>16</sub>                         | 11 <sup>3</sup> / <sub>4</sub>                            | 3                             | 5 <sup>9</sup> / <sub>16</sub>  | 2 <sup>5</sup> / <sub>8</sub>  | 7 <sup>1</sup> / <sub>2</sub>   | 4 <sup>1</sup> / <sub>4</sub>   | 6.2                            | 215                               |
| 27         | 9 <sup>11</sup> / <sub>16</sub>                         | 12 <sup>1</sup> / <sub>8</sub>                            | 3 <sup>1</sup> / <sub>4</sub> | 5 <sup>7</sup> / <sub>16</sub>  | 2 <sup>5</sup> / <sub>16</sub> | 7 <sup>5</sup> / <sub>8</sub>   | 4 <sup>1</sup> / <sub>2</sub>   | 6.2                            | 260                               |
| 30         | 10                                                      | 12 <sup>3</sup> / <sub>8</sub>                            | 3 <sup>1</sup> / <sub>2</sub> | 5 <sup>5</sup> / <sub>16</sub>  | 2 <sup>5</sup> / <sub>16</sub> | 7 <sup>11</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub>  | 6.4                            | 320                               |
| 33         | 11 <sup>3</sup> / <sub>16</sub>                         | 13 <sup>3</sup> / <sub>8</sub>                            | 3 <sup>3</sup> / <sub>4</sub> | 5 <sup>15</sup> / <sub>16</sub> | 2 <sup>9</sup> / <sub>16</sub> | 8 <sup>5</sup> / <sub>8</sub>   | 5 <sup>1</sup> / <sub>4</sub>   | 7.1                            | 420                               |
| 36         | 12 <sup>3</sup> / <sub>16</sub>                         | 15 <sup>1</sup> / <sub>16</sub>                           | 4                             | 6 <sup>1</sup> / <sub>2</sub>   | 2 <sup>5</sup> / <sub>16</sub> | 9 <sup>3</sup> / <sub>8</sub>   | 5 <sup>1</sup> / <sub>16</sub>  | 7.7                            | 530                               |
| 42         | 14 <sup>1</sup> / <sub>16</sub>                         | 17 <sup>1</sup> / <sub>2</sub>                            | 4 <sup>1</sup> / <sub>2</sub> | 6 <sup>9</sup> / <sub>16</sub>  | 3 <sup>1</sup> / <sub>16</sub> | 10 <sup>5</sup> / <sub>16</sub> | 7 <sup>3</sup> / <sub>16</sub>  | 8.9                            | 800                               |
| 48         | 16 <sup>1</sup> / <sub>16</sub>                         | 20 <sup>1</sup> / <sub>4</sub>                            | 5                             | 7 <sup>15</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>16</sub> | 11 <sup>3</sup> / <sub>4</sub>  | 8 <sup>1</sup> / <sub>2</sub>   | 10.5                           | 1190                              |
| 54         | 18 <sup>1</sup> / <sub>16</sub>                         | 22 <sup>5</sup> / <sub>16</sub>                           | 5 <sup>1</sup> / <sub>2</sub> | 7 <sup>5</sup> / <sub>8</sub>   | 6 <sup>3</sup> / <sub>16</sub> | 11 <sup>7</sup> / <sub>8</sub>  | 10 <sup>7</sup> / <sub>16</sub> | 11.5                           | 1600                              |
| 60         | 20 <sup>1</sup> / <sub>2</sub>                          | 25 <sup>1</sup> / <sub>4</sub>                            | 6                             | 8 <sup>5</sup> / <sub>8</sub>   | 7 <sup>1</sup> / <sub>8</sub>  | 13 <sup>3</sup> / <sub>8</sub>  | 11 <sup>7</sup> / <sub>8</sub>  | 13.0                           | 2210                              |
| 66         | 21 <sup>5</sup> / <sub>8</sub>                          | 26 <sup>9</sup> / <sub>16</sub>                           | 6 <sup>1</sup> / <sub>2</sub> | 9                               | 7 <sup>3</sup> / <sub>8</sub>  | 14 <sup>5</sup> / <sub>16</sub> | 12 <sup>5</sup> / <sub>8</sub>  | 13.8                           | 2790                              |
| 72         | 22 <sup>5</sup> / <sub>8</sub>                          | 28 <sup>1</sup> / <sub>4</sub>                            | 7                             | 9 <sup>3</sup> / <sub>8</sub>   | 7 <sup>5</sup> / <sub>8</sub>  | 13 <sup>3</sup> / <sub>4</sub>  | 15                              | 14.4                           | 3420                              |

March 31, 2000

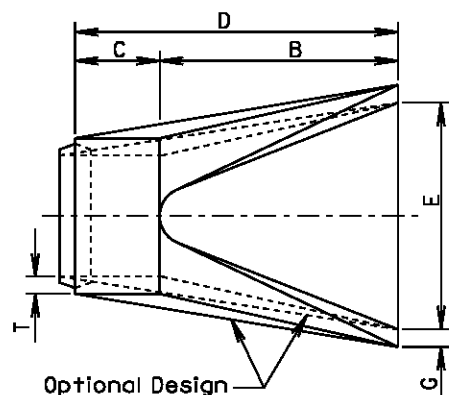
Published Date: 2027

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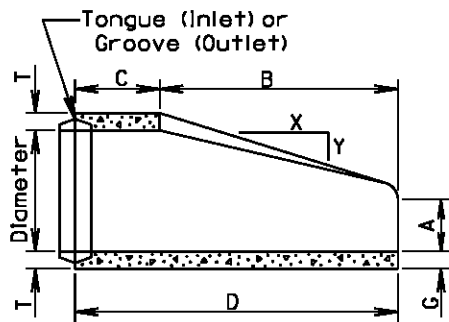
REINFORCED CONCRETE PIPE  
SHORT RADIUS BEND

PLATE NUMBER  
450.03

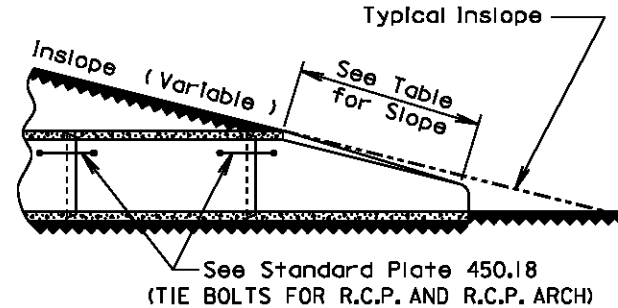
Sheet 1 of 1



TOP VIEW



LONGITUDINAL SECTION

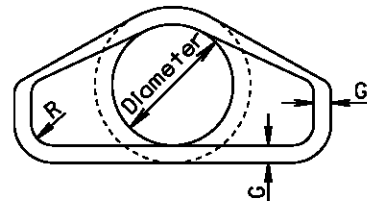


SLOPE DETAIL

GENERAL NOTES:

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

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



END VIEW

| Dia.<br>(In.) | Approx.<br>Wt. of<br>Section<br>(lbs.) | Approx.<br>Slope<br>(X to Y) | T<br>(In.)                    | A<br>(In.)                     | B<br>(In.)                     | C<br>(In.)                     | D<br>(In.)                      | E<br>(In.) | G<br>(In.)                    | R<br>(In.)                    |
|---------------|----------------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|------------|-------------------------------|-------------------------------|
| 12            | 530                                    | 2.4:1                        | 2                             | 4                              | 24                             | 48 <sup>3</sup> / <sub>8</sub> | 72 <sup>7</sup> / <sub>8</sub>  | 24         | 2                             | 1 <sup>1</sup> / <sub>2</sub> |
| 15            | 740                                    | 2.4:1                        | 2 <sup>1</sup> / <sub>4</sub> | 6                              | 27                             | 46                             | 73                              | 30         | 2 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 18            | 990                                    | 2.3:1                        | 2 <sup>1</sup> / <sub>2</sub> | 9                              | 27                             | 46                             | 73                              | 36         | 2 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 21            | 1280                                   | 2.4:1                        | 2 <sup>3</sup> / <sub>4</sub> | 9                              | 36                             | 37 <sup>1</sup> / <sub>2</sub> | 73 <sup>1</sup> / <sub>2</sub>  | 42         | 2 <sup>3</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 24            | 1520                                   | 2.5:1                        | 3                             | 9 <sup>1</sup> / <sub>2</sub>  | 43 <sup>1</sup> / <sub>2</sub> | 30                             | 73 <sup>1</sup> / <sub>2</sub>  | 48         | 3                             | 1 <sup>1</sup> / <sub>2</sub> |
| 27            | 1930                                   | 2.5:1                        | 3 <sup>1</sup> / <sub>4</sub> | 10 <sup>1</sup> / <sub>2</sub> | 49 <sup>1</sup> / <sub>2</sub> | 24                             | 73 <sup>1</sup> / <sub>2</sub>  | 54         | 3 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 30            | 2190                                   | 2.5:1                        | 3 <sup>1</sup> / <sub>2</sub> | 12                             | 54                             | 19 <sup>3</sup> / <sub>4</sub> | 73 <sup>3</sup> / <sub>4</sub>  | 60         | 3 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 36            | 4100                                   | 2.5:1                        | 4                             | 15                             | 63                             | 34 <sup>3</sup> / <sub>4</sub> | 97 <sup>3</sup> / <sub>4</sub>  | 72         | 4                             | 1 <sup>1</sup> / <sub>2</sub> |
| 42            | 5380                                   | 2.5:1                        | 4 <sup>1</sup> / <sub>2</sub> | 21                             | 63                             | 35                             | 98                              | 78         | 4 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 48            | 6550                                   | 2.5:1                        | 5                             | 24                             | 72                             | 26                             | 98                              | 84         | 5                             | 1 <sup>1</sup> / <sub>2</sub> |
| 54            | 8240                                   | 2:1                          | 5 <sup>1</sup> / <sub>2</sub> | 27                             | 65                             | 33 <sup>1</sup> / <sub>4</sub> | 98 <sup>1</sup> / <sub>4</sub>  | 90         | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 60            | 8730                                   | 1.9:1                        | 6                             | 35                             | 60                             | 39                             | 99                              | 96         | 5                             | 1 <sup>1</sup> / <sub>2</sub> |
| 66            | 10710                                  | 1.7:1                        | 6 <sup>1</sup> / <sub>2</sub> | 30                             | 72                             | 27                             | 99                              | 102        | 5 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 72            | 12520                                  | 1.8:1                        | 7                             | 36                             | 78                             | 21                             | 99                              | 108        | 6                             | 1 <sup>1</sup> / <sub>2</sub> |
| 78            | 14770                                  | 1.8:1                        | 7 <sup>1</sup> / <sub>2</sub> | 36                             | 90                             | 21                             | 111                             | 114        | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 84            | 18160                                  | 1.6:1                        | 8                             | 36                             | 90 <sup>1</sup> / <sub>2</sub> | 21                             | 111 <sup>1</sup> / <sub>2</sub> | 120        | 6 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |
| 90            | 20900                                  | 1.5:1                        | 8 <sup>1</sup> / <sub>2</sub> | 41                             | 87 <sup>1</sup> / <sub>2</sub> | 24                             | 111 <sup>1</sup> / <sub>2</sub> | 132        | 6 <sup>1</sup> / <sub>2</sub> | 6                             |

June 26, 2015

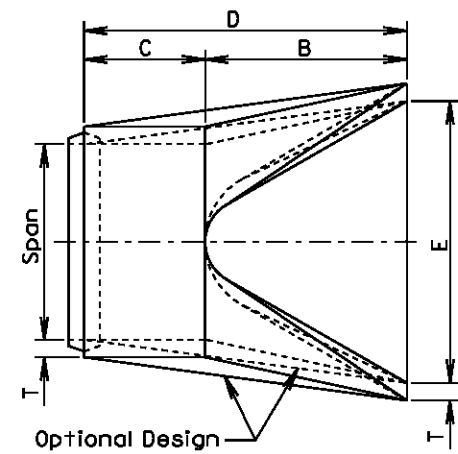
Published Date: 2027

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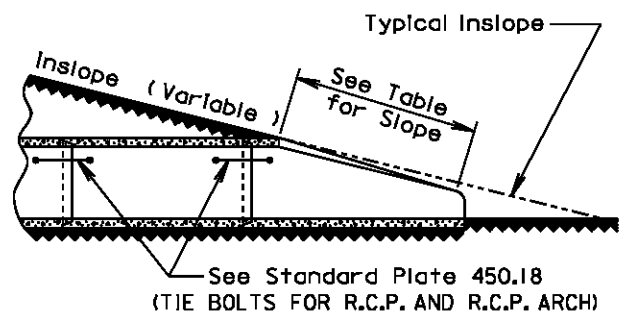
R. C. P. FLARED ENDS

PLATE NUMBER  
450.10

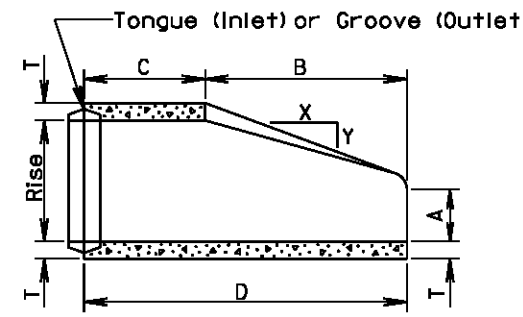
Sheet 1 of 1



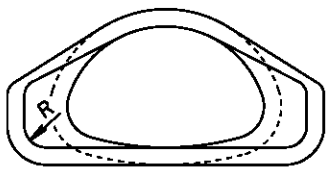
TOP VIEW



SLOPE DETAIL



LONGITUDINAL SECTION



END VIEW

**GENERAL NOTES:**

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

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

| * Size (In.) | Approximate Weight of Section (lbs.) | Rise (In.) | Span (In.) | Slope (X:Y) | T (In.) | A (In.) | B (In.) | C (In.) | D (In.) | E (In.) | R (In.) |
|--------------|--------------------------------------|------------|------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| 18           | 1100                                 | 13 1/2     | 22         | 3:1         | 2 1/2   | 7       | 27      | 45      | 72      | 36      | 2       |
| 24           | 1750                                 | 18         | 28 1/2     | 3:1         | 3 1/2   | 8 1/2   | 39      | 33      | 72      | 48      | 3       |
| 30           | 3300                                 | 22 1/2     | 36 1/4     | 3:1         | 4       | 9 1/2   | 50      | 46      | 96      | 60      | 3       |
| 36           | 4350                                 | 26 5/8     | 43 3/4     | 3:1         | 4 1/2   | 11 1/8  | 60      | 36      | 96      | 72      | 6       |
| 42           | 5250                                 | 31 5/8     | 51 1/8     | 3:1         | 4 1/2   | 15 1/8  | 60      | 36      | 96      | 78      | 6       |
| 48           | 6400                                 | 36         | 58 1/2     | 3:1         | 5       | 21      | 60      | 36      | 96      | 84      | 6       |
| 54           | 7850                                 | 40         | 65         | 3:1         | 5 1/2   | 25 1/2  | 60      | 36      | 96      | 90      | 6       |
| 60           | 9500                                 | 45         | 73 1/2     | 3:1         | 6       | 31      | 60      | 36      | 96      | 96      | 6       |
| 72           | 13550                                | 54         | 88         | 2:1         | 7       | 31      | 60      | 39      | 99      | 120     | 6       |
| 84           | 17950                                | 62         | 102        | 2:1         | 8       | 28 1/2  | 83      | 19      | 102     | 144     | 6       |

\*Equivalent Diameter of Circular R. C. P.

June 26, 2015

Published Date: 2027

SDDOT

R. C. P. ARCH FLARED ENDS

PLATE NUMBER

450.11

Sheet 1 of 1

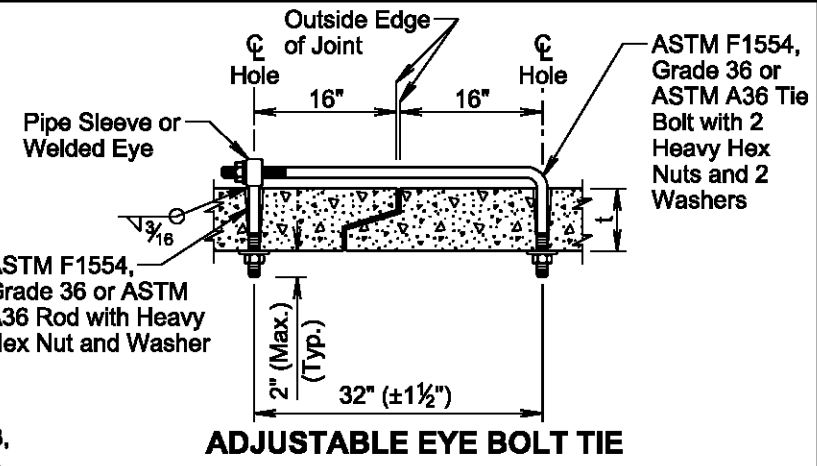
| Wall "t" (In.) | Rod Dia. (In.) | Pipe Sleeve Dia. (nominal) |
|----------------|----------------|----------------------------|
| ≤ 3 1/4        | 5/8            | 3/4                        |
| 3 1/2 - 6 1/2  | 3/4            | 1                          |
| ≥ 7            | 1              | 1 1/4                      |

**GENERAL NOTES:**

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

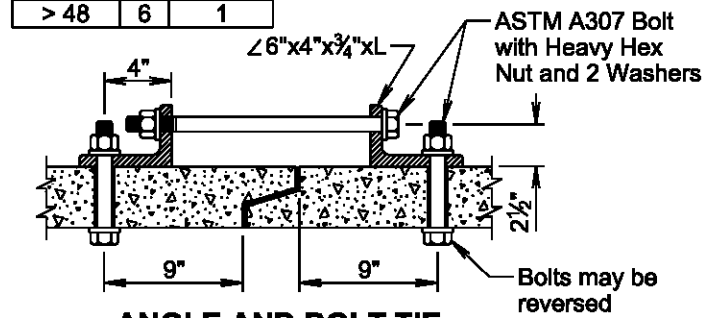
Pipe Sleeve will conform to ASTM A53, Grade B or ASTM A500, Grade B or C.

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



ADJUSTABLE EYE BOLT TIE

| Pipe Dia. (in.) | "L" (in.) | Bolt Dia. (in.) |
|-----------------|-----------|-----------------|
| ≤ 48            | 4         | 3/4             |
| > 48            | 6         | 1               |



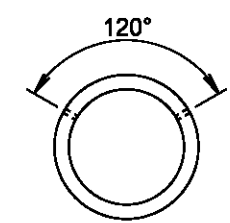
ANGLE AND BOLT TIE

**GENERAL NOTES:**

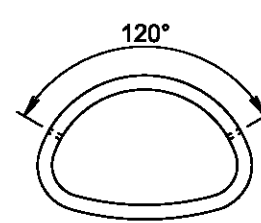
Angles will conform to ASTM A36.

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

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



END VIEW (Circular)



END VIEW (Arch)

**GENERAL NOTES:**

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

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

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

Apr 11 8, 2025

Published Date: 2027

SDDOT

TIE BOLTS FOR R.C.P. AND R.C.P. ARCH

PLATE NUMBER

450.18

Sheet 1 of 1



| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B146  | B174            |

Plotting Date: 7/21/2026

**Top View**

**General Notes**

Use South Dakota Standard Specifications for Roads and Bridges, latest edition and required provisions, supplemental specifications and/or special provisions.

All reinforcing steel shall conform to A.S.T.M. A615, Grade 60.

All reinforcing steel shall be cut and/or bent in the field to maintain a minimum of 2" cover on all reinforcing steel.

No vertical construction joints are allowed.

All concrete shall be class M-6.

Unit stresses: Concrete  $F_c = 1600$  P.S.I.  
Reinforcing steel  $F_c = 20,000$  P.S.I.

Top of manhole cover to be set flush with finished surface elevation.

**Section A-A**

**Section B-B**

| Item                             | Unit  | 4' X 4' Junction Box |          | 5' X 5' Junction Box |          |
|----------------------------------|-------|----------------------|----------|----------------------|----------|
|                                  |       | Constant             | Variable | Constant             | Variable |
| * Class M6 concrete              | CuYds | 1.29                 | 0.46V    | 1.93                 | 0.56V    |
| Reinforcing Steel                | LBS   | 103                  | 23V      | 131                  | 35V      |
| Manhole rim & cover-as specified | Each  | 1                    | ---      | 1                    | ---      |

\* Constant shall be reduced for the appropriate pipe or combination of pipes, thus:  
12" Dia.=0.03 C.Y., 15" Dia.=0.04 C.Y., 18" Dia.=0.05 C.Y., 21" Dia.=0.07 C.Y., 24" Dia.=0.09 C.Y.,  
27" Dia.=0.11 C.Y., 30" Dia.=0.14 C.Y., 33" Dia.=0.17 C.Y., 36" Dia.=0.20 C.Y., 42" Dia.=0.26 C.Y.,  
48" Dia.=0.34 C.Y.

**Notes:**

Top slab steel reinforcement requires 12-#5 bars 5'(6') long to be placed as shown.  
2" From manhole opening and 8" center to center at a depth of 6" w/min. cover thickness of 8".

Floor of junction box to be finished in such a manner to insure uninterrupted flow thru the box.

When pipe sizes differ thru junction box, top of pipe to match when possible.

( ) Indicates specifications for a 5' x 5' junction box. Maximum pipe size allowed for 4' x 4' junction box is 36" R.C.P. Maximum pipe size allowed for a 5' x 5' junction is 48" R.C.P. Standard plate is applicable to variable depth up to 8'

Exhibit depicts a 4'x4' junction box at 8' variable height.

Revised: May 2019

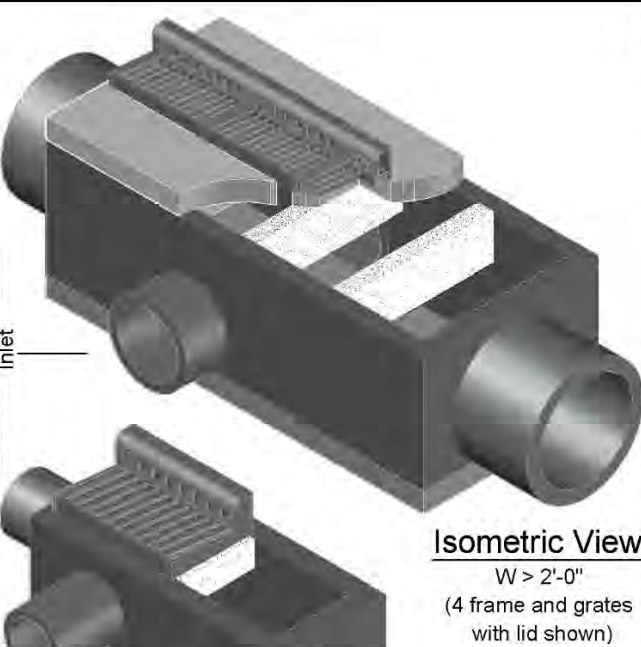
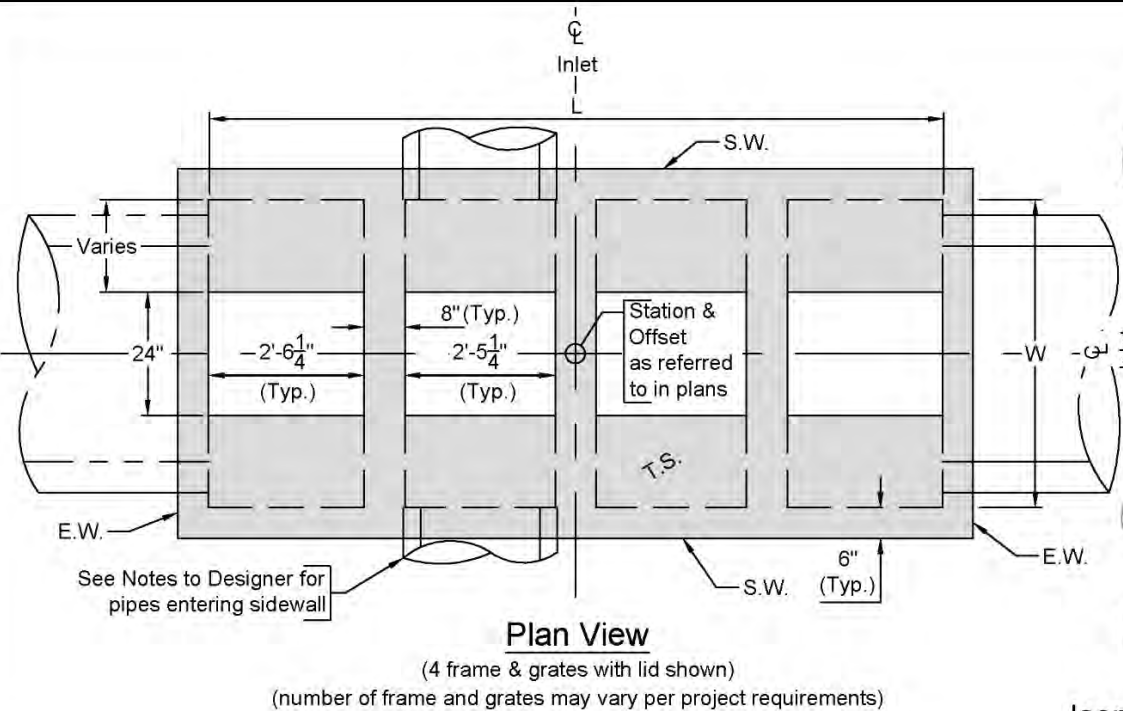
**CITY OF SIOUX FALLS  
PUBLIC WORKS**  
Providing a Better Quality of Life for You!

**Type I Junction Box for  
Storm Water**

Specification  
Reference  
No. 460

Plate  
Number  
460.05





Notes to Designer

1. Type B inlets installation location shall be limited to arterial and collector streets. The Type B inlets shall not be allowed on local and residential streets, unless approved by the Owner / Engineer.
2. The inlets shall either be 2' wide with no lid, or shall have lids for inlets widths from 2'-6\" to 10'. Inlet widths of 6\" increments shall be as follows: 2', 2'-6\", 3', 3'-6\", 4', 4'-6\", 5', 5'-6\", 6', 6'-6\", 7', 7'-6\", 8', 8'-6\", 9', 9'-6\", 10'.
3. The number of frame & grates may vary, but shall typically be limited to 3 to allow for ease of mainline paving / finishing concerns at the inlets. Inlets requiring more than 3 frame & grates are allowed per these inlet details, but shall be approved by the Owner / Engineer.
4. For inlets with single frame and grates, use Neenah R-3295 heavy duty frame and grates with curb boxes. For inlets with multiple frame and grates, as required use R-3295-2 and R-3295-3 heavy duty frame and grates with curb boxes. All curb boxes shall be adjustable. All R-3295 frame and grate bolts, washers, and nuts shall be galvanized steel. Type V grates shall be used with all R-3295 frame and grates.
5. The inlet pipe centerline and frame and grate centerlines shall be aligned as close as possible to each other for maintenance purposes. The frame and grate location is allowed to shift transversely within the limits of inlet walls during construction, due to conflicts such as utilities, obstructions, existing conditions, etc.
6. The pipe outside diameters, including the pipe wall thickness, shall not exceed the inside width of the inlet walls. Pipes shall not enter through the inlet corners.
7. Pipes entering sidewalls shall be centered between the diaphragm walls. Pipe sizes are limited to those presented in the table on this sheet so that no portion of the pipe cross section shall conflict with the diaphragm walls.
8. The total quantity of reinforcing steel shall be computed to the nearest pound. The total quantity of concrete shall be computed to the nearest tenth of a cubic yard. Reduce the total quantity of inlet concrete by the amount of concrete displaced by the pipe(s), as shown on the "Pipe Displacement Reductions" table shown on the following sheet.
9. The number of pipes shown on the detail's inlet views and examples are allowed to be modified by the addition or omission of connecting pipes as required by the design.
10. The Type B inlets Design Live Load used for this detail is HL-93 loading. No Construction loading in excess of the legal loading was considered.

Abbreviations:

n = Number of frame and grates  
W = Interior width of inlet, perpendicular to street centerline.  
H = Height of box, from invert to top of lid.  
L = Interior length of inlet, parallel to street centerline.  
T.S. = Top of Lid / Slab  
B.S. = Bottom Slab  
S.W. = Side Wall  
E.W. = End Wall  
D.W. = Diaphragm Wall  
B = Diaphragm Wall Height

| Inlet Interior Length   |                        |
|-------------------------|------------------------|
| No. of Frame and Grates | L (ft-in)              |
| 1                       | 2'-7 1/4"              |
| 2                       | 5'-8 1/2"              |
| 3                       | 8'-9 3/4"              |
| 4                       | 11'-11"                |
| n                       | 5.7083 + (n-2)*(3.104) |

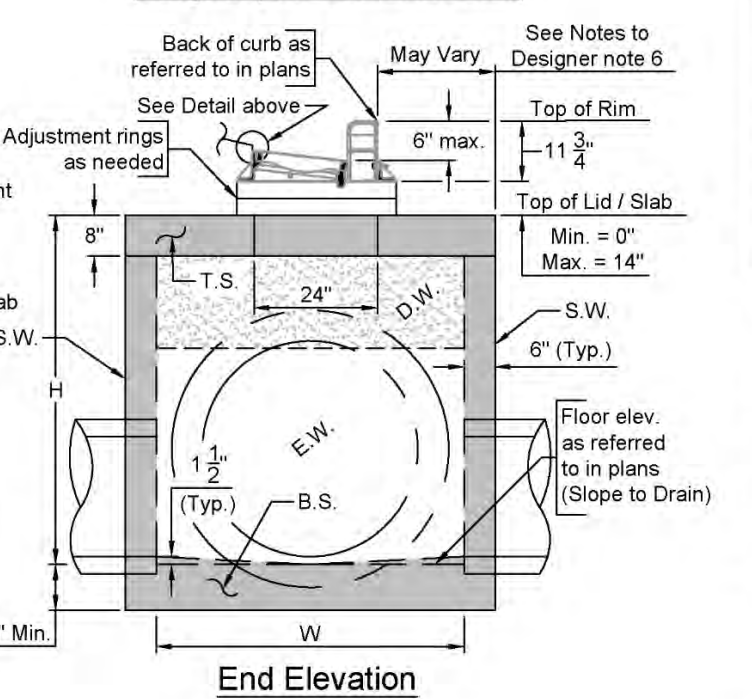
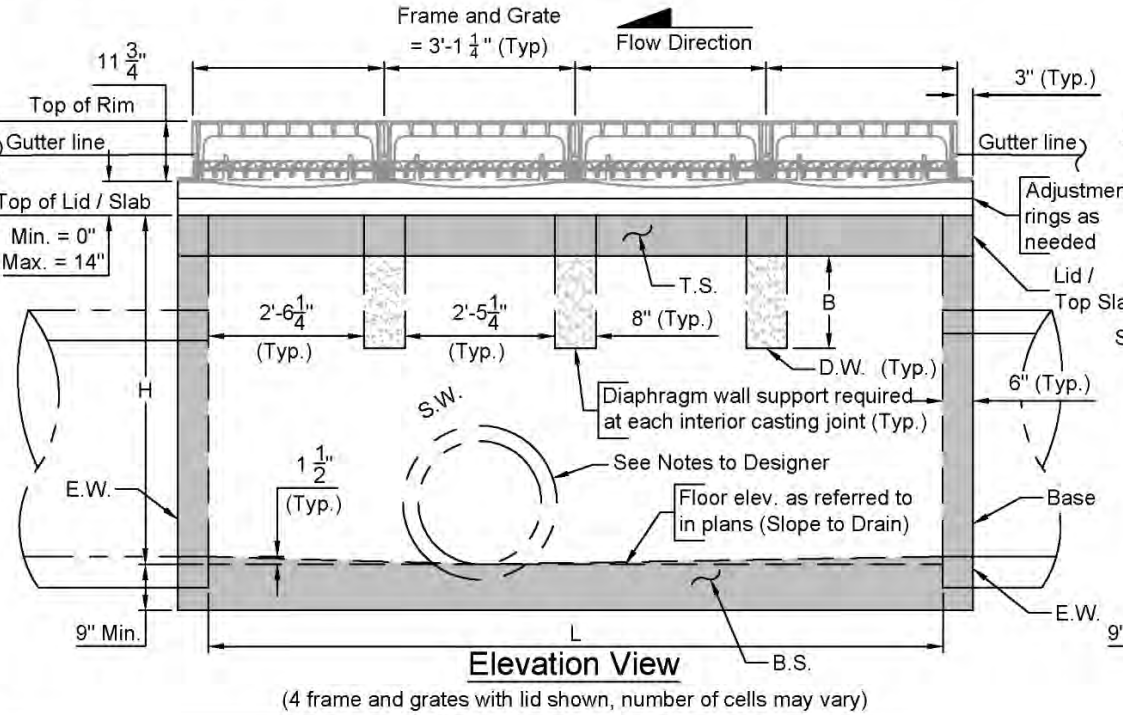


Diaphragm Wall Height, B (ft) / (Max Circular Pipe Size (in))

| Box Width = W (ft) | Box Height = H (ft) |                |                |                |                |                |                |                |                |  |
|--------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
|                    | 2                   | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             |  |
| 2                  | 0'-8"Δ / (18")      | 0'-8"Δ / (18") | 0'-8"Δ / (18") | 0'-8"Δ / (18") | 0'-8"Δ / (18") | 0'-8"Δ / (18") | 0'-8"Δ / (18") | 1'-0"Δ / (18") | 2'-0"Δ / (18") |  |
| 3                  | NA                  | 1'-0" / (18")  | 1'-0" / (24")  | 1'-0" / (24")  | 1'-0" / (24")  | 1'-0" / (24")  | 1'-0" / (24")  | 1'-0" / (24")  | 2'-0" / (24")  |  |
| 4                  | NA                  | 1'-0" / (18")  | 1'-0" / (24")  | 1'-0" / (36")  | 1'-0" / (36")  | 1'-0" / (36")  | 1'-0" / (36")  | 1'-0" / (36")  | 2'-0" / (36")  |  |
| 5                  | NA                  | NA             | 1'-6" / (24")  | 1'-6" / (36")  | 1'-6" / (48")  | 1'-6" / (48")  | 1'-6" / (48")  | 1'-6" / (48")  | 2'-0" / (48")  |  |
| 6                  | NA                  | NA             | 1'-6" / (24")  | 1'-6" / (36")  | 1'-6" / (48")  | 1'-6" / (60")  | 1'-6" / (60")  | 1'-6" / (60")  | 2'-0" / (60")  |  |
| 7                  | NA                  | NA             | 2'-0" / (18")  | 2'-0" / (24")  | 2'-0" / (36")  | 2'-0" / (48")  | 2'-0" / (60")  | 2'-0" / (72")  | 2'-0" / (72")  |  |
| 8                  | NA                  | NA             | 2'-0" / (18")  | 2'-0" / (24")  | 2'-0" / (36")  | 2'-0" / (48")  | 2'-0" / (60")  | 2'-0" / (72")  | 2'-0" / (72")  |  |
| 9                  | NA                  | NA             | 2'-0" / (18")  | 2'-0" / (24")  | 2'-0" / (36")  | 2'-0" / (48")  | 2'-0" / (60")  | 2'-0" / (72")  | 2'-0" / (72")  |  |
| 10                 | NA                  | NA             | 2'-0" / (18")  | 2'-0" / (24")  | 2'-0" / (36")  | 2'-0" / (48")  | 2'-0" / (60")  | 2'-0" / (72")  | 2'-0" / (72")  |  |

Notes:  
Interpolation allowed between given values, otherwise round up the diaphragm wall height.  
Δ Diaphragm wall cast integral to inlet walls, no lid required. No diaphragm wall stirrups required.  
Indicates that the bottom of diaphragm wall is 2\" below top of inside of max pipe size.  
NA Not Allowed

Page 1 of 4, Issued: August 2020



**Type B Inlet for Storm Water General Layout**

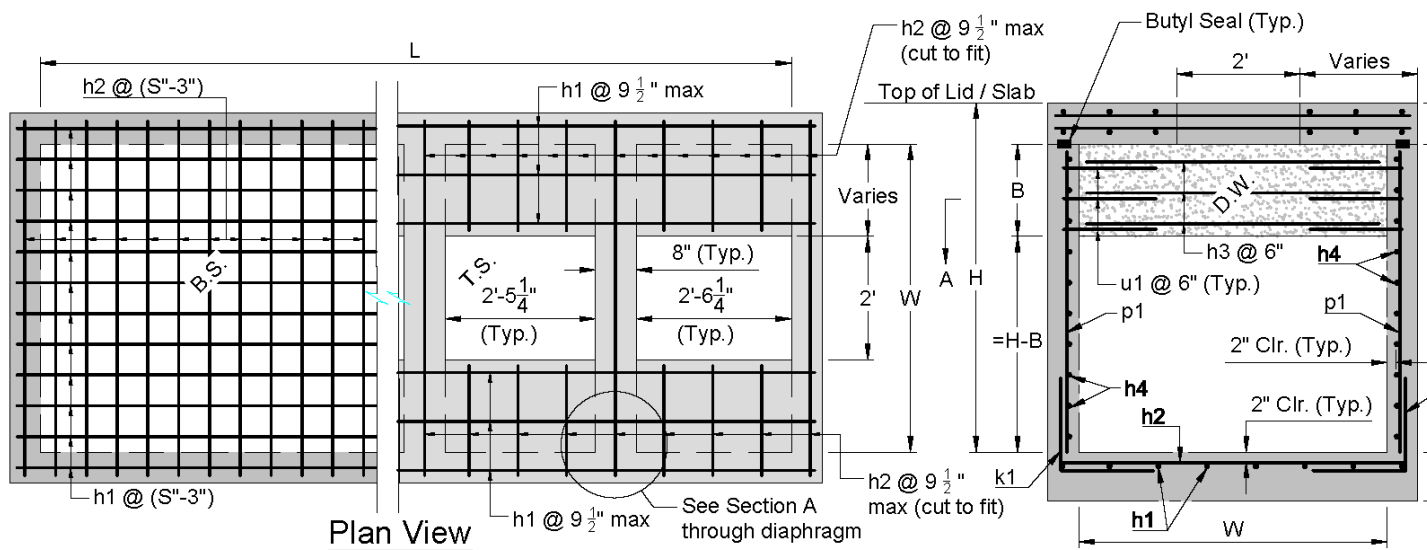
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Specification  
Reference  
No. 460

Plate  
Number  
460.14

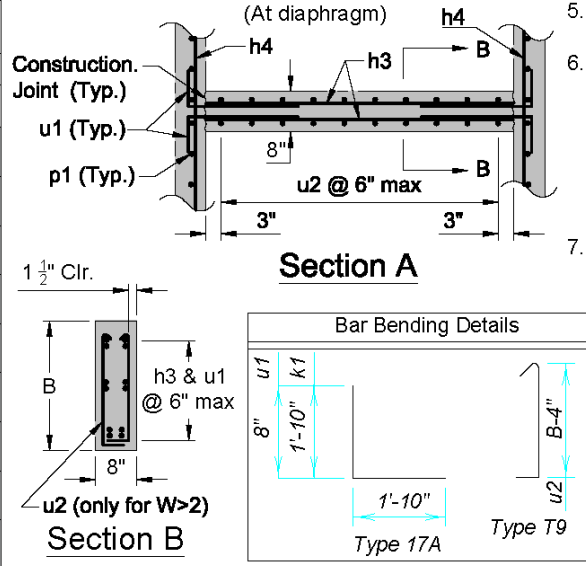






Bar Size "A" @ Spacing "S"

| Box Width<br>= W (ft) | Box Height = H (ft) |         |         |         |         |         |         |         |         |
|-----------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | 2                   | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
| 2                     | #4 @ 9"             | #4 @ 9" | #4 @ 9" | #4 @ 9" | #4 @ 9" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 3                     | NA                  | #4 @ 9" | #4 @ 9" | #4 @ 9" | #4 @ 9" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 4                     | NA                  | #4 @ 9" | #4 @ 9" | #4 @ 9" | #4 @ 9" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 5                     | NA                  | NA      | #4 @ 9" | #4 @ 9" | #4 @ 9" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 6                     | NA                  | NA      | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 7                     | NA                  | NA      | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 8                     | NA                  | NA      | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 9                     | NA                  | NA      | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |
| 10                    | NA                  | NA      | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" | #5 @ 6" |



Specifications

- Design Specifications: AASHTO LRFD Bridge Design Specifications, 8th Edition.
- Use South Dakota Standard Specifications for Roads and Bridges, latest edition, and the required City Supplemental Specifications and/or Special Provisions.

General Notes

- Material Design Strengths:  
Concrete = 4,000 psi  
Reinforcement = 60,000 psi
- Shimming of any component is not allowed.
- The lid shall be installed separately, and shall not be cast to the inlet walls. The lid shall be cast-in-place once the curbline is known and the inlet walls and base is fully cured.
- Adjustment rings shall be furnished and installed per approval of the Owner / Engineer. The adjustment rings shall be sealed with butyl rope or an approved caulk sealant, as shown on the "Sealant Detail" on sheet 1.
- Chamfer top edges of diaphragm for W=2'-0" or top edges of lid openings for W>2'-0" by 1".
- The pipes shall be made monolithic with the inlet walls and base by casting concrete or grout around the pipe perimeter. The base and lid may be precast. If a precast base and or lid is used, and details differ from that shown, the precast base and or lid must be approved by the Owner/Engineer.

Pipe Displacement Reductions

| Diameter (in.) | Wall Thickness (in.) | Quantity (Cu.Yd.) |
|----------------|----------------------|-------------------|
| 12             | 2                    | 0.03              |
| 15             | 2 1/4                | 0.04              |
| 18             | 2 1/2                | 0.05              |
| 24             | 3                    | 0.09              |
| 30             | 3 1/2                | 0.14              |
| 36             | 4                    | 0.20              |
| 42             | 4 1/2                | 0.26              |
| 48             | 5                    | 0.34              |
| 54             | 5 1/2                | 0.43              |
| 60             | 6                    | 0.52              |
| 72             | 7                    | 0.75              |
| 84             | 8                    | 1.01              |

| Diameter (in.) | Wall Thickness (in.) | Quantity (Cu.Yd.) |
|----------------|----------------------|-------------------|
| 18             | 2 1/2                | 0.05              |
| 24             | 3 1/2                | 0.09              |
| 30             | 4                    | 0.14              |
| 36             | 4 1/2                | 0.20              |
| 42             | 4 1/2                | 0.26              |
| 48             | 5                    | 0.34              |
| 54             | 5 1/2                | 0.43              |
| 60             | 6                    | 0.52              |
| 72             | 7                    | 0.75              |
| 84             | 8                    | 0.95              |

Estimated Quantities

| Item                                              | Unit   | Quantity                                                                                                                                                    |
|---------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Class M6 Concrete (See Notes to Designer note 5.) | Cu.Yd. | For W > 2': [0.667*B*W*(n-1) + H*(L+W+1) + L*(1.417*W+0.75) - 3.25163*n + 0.75*(W+1)]/27<br>For W = 2': [0.667*B*W*(n-1) + H*(L+W+1) + 0.75*(W*L+W+L+1)]/27 |
| Reinforcing Steel                                 | Lb.    | Exact : Σ[(No.)(Length)(lb/ft)]<br>Approximate :<br>For H≥6': use 320 Lb./Cu.Yd. Concrete<br>For H<6': use 240 Lb./Cu.Yd. Concrete                          |
| Type B Frame and Grate Assembly - Left Flange     | Each   | if n = 1; then 0, otherwise 1                                                                                                                               |
| Type B Frame and Grate Assembly - Right Flange    | Each   | if n = 1; then 0, otherwise 1                                                                                                                               |
| Type B Frame and Grate - No Flange                | Each   | if n > 2; then (n-2) otherwise 0                                                                                                                            |
| Type B Frame and Grate Right & Left Flange        | Each   | if n = 1; then 1, otherwise 0                                                                                                                               |

Reinforcing Schedule

| Mk. | No.                                                                | Size | Length   | Type |
|-----|--------------------------------------------------------------------|------|----------|------|
| h1  | W > 2': (12W+6)/(S-3)+(24W-36)/S+3<br>W = 2': (12W+6)/(S-3)+1      | 5    | L+0.5'   | Str. |
| h2  | W > 2': (12L+6)/(S-3)+(24L+12)/S+3<br>W = 2': (12L+6)/(S-3)+1 + 2n | 5    | W+0.5'   | Str. |
| h3  | (n-1)(4B+2)                                                        | 5    | W-0.33'  | Str. |
| h4  | W > 2': (24H-28)/S+2<br>W = 2': (24H-12)/S+2                       | A    | L+0.5'   | Str. |
| h5  | W > 2': (24H-28)/S+2<br>W = 2': (24H-12)/S+2                       | A    | W+0.5'   | Str. |
| k1  | W > 2': (48H+24L+24W-80)/S+8<br>W = 2': (48H+24L+24W-48)/S+8       | A    | 3'-8"    | 17A  |
| p1  | (24(L+W))/S+4                                                      | A    | H-0.542' | Str. |
| u1  | 2(n-1)(4B+2)                                                       | 5    | 2'-6"    | 17A  |
| u2  | W > 2': (4W)(n-1)<br>W = 2': 0                                     | 4    | 0.42'+B  | T9   |

NOTES:  
All dimensions are out to out of bars.  
Cut in field as necessary to fit.

Legend For Placing Re-Steel

|                       |
|-----------------------|
| T.S. - Top Slab       |
| B.S. - Bottom Slab    |
| S.W. - Side Wall      |
| E.W. - End Wall       |
| D.W. - Diaphragm Wall |

Type B Inlet for Storm Water Layout / Details

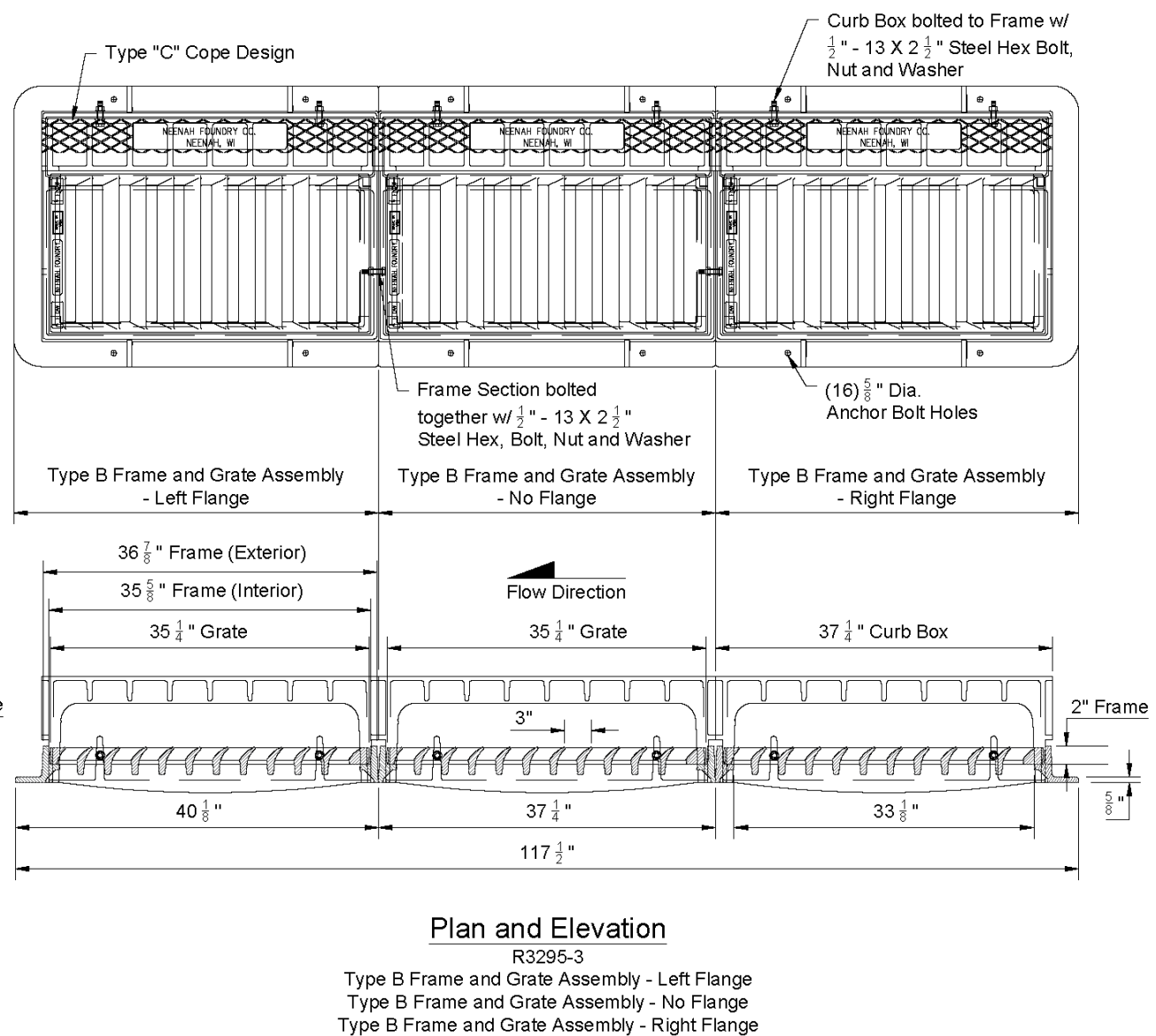
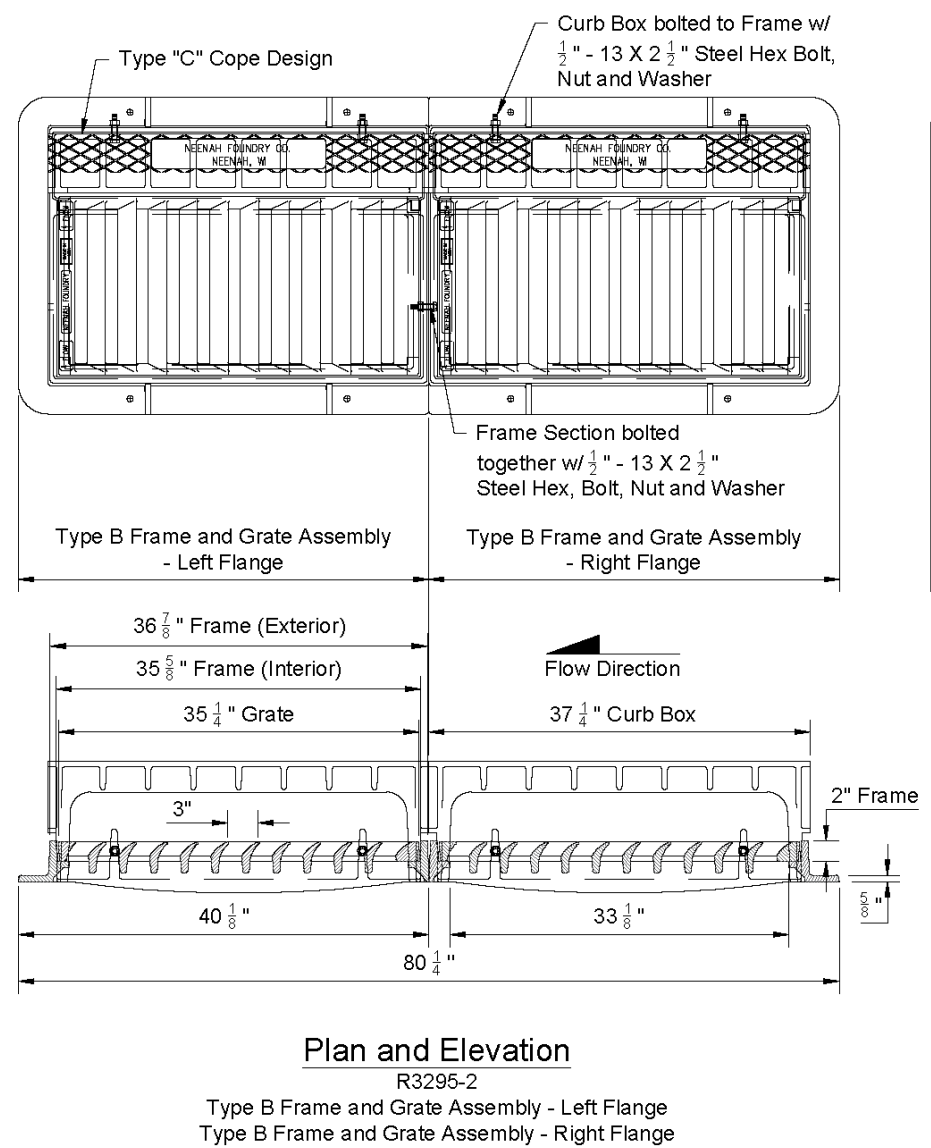
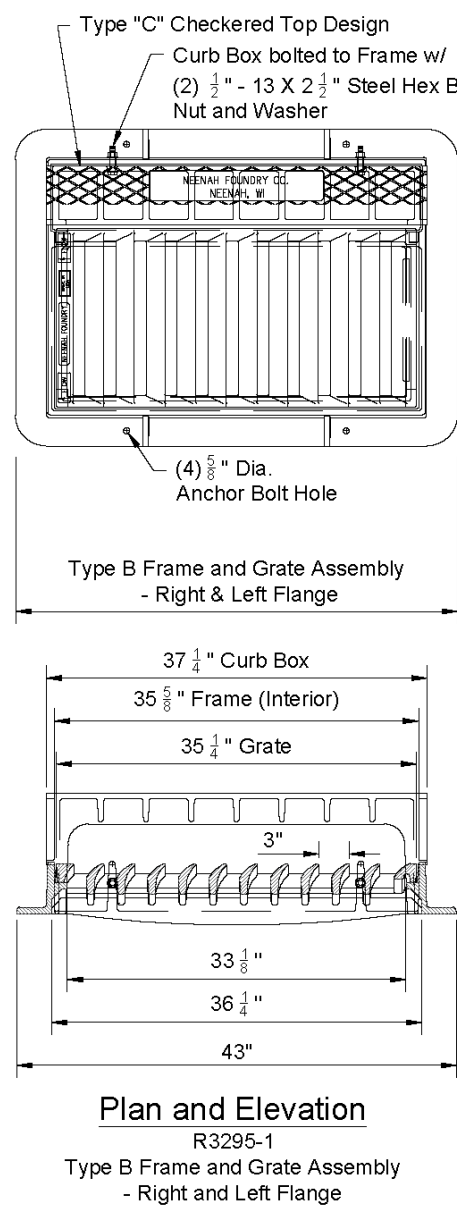


Specification  
Reference  
No. 460

Plate  
Number  
460.14

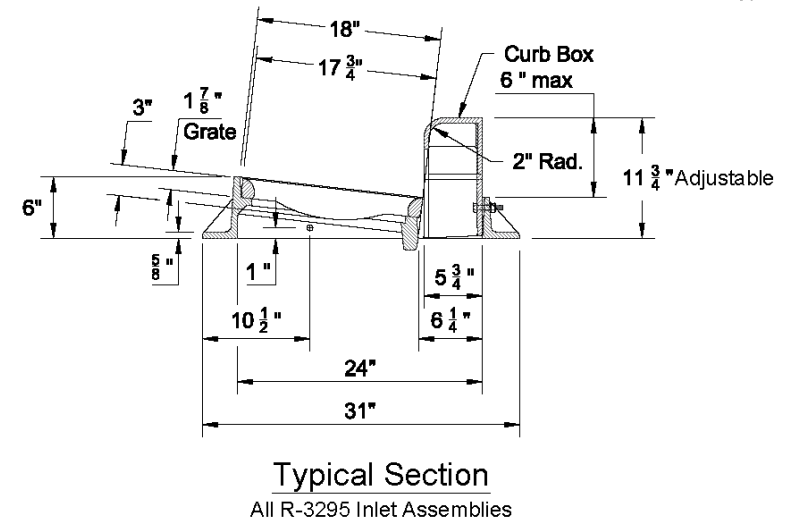






Notes

1. The dimensions given on this page are from the Neenah Foundry details and are subject to change by the manufacturer without notice. Therefore they should be verified prior to construction.
2. For inlets requiring more than 3 frames and grates, specify additional "Type B Frame and Grate Assembly - No Flange" when ordering the additional frame and grates.
3. Frame and grates shall be type Neenah R-3295 or Owner / Engineer approved equal.
4. Type V grates shall be used with all R-3295 frame and grates.
5. All R-3295 frame & grate bolts, washers, and nuts shall be galvanized.
6. The Curb Boxes for the R-3295 frame and grates shall be adjustable.



|                                                                                                                                                                                  |                                       |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------|
| <b>Type B Inlet for Storm Water<br/>Frame / Grate Assemblies</b>                                                                                                                 |                                       |                           |
|  <b>CITY OF SIOUX FALLS<br/>PUBLIC WORKS</b><br>Providing a Better Quality of Life for You! | Specification<br>Reference<br>No. 460 | Plate<br>Number<br>460.14 |



Design Example

Given:

Top of curb Elevation = 1409.23  
Invert Elevation = 1402.00  
Inflow pipe 1 diameter = 48"  
Inflow pipe 2 diameter = 36"  
Outflow pipe 1 diameter = 48"  
Number of frame and grates = 4  
Depth of adjusting ring = 3"

Solution:

1) Determine structure dimensions using tables on Sheet 1.

| Inlet Interior Length      |                          |
|----------------------------|--------------------------|
| No. of<br>Frame and Grates | L                        |
| 1                          | 2'-7 1/4"                |
| 2                          | 5'-8 1/2"                |
| 3                          | 8'-9 3/4"                |
| 4                          | 11'-11"                  |
| n                          | 6.7083 +<br>(n-2)(3.104) |

| Diaphragm Wall Height, B (ft) / (Max Circular Pipe Size (in)) |                                        | Box Height = H (ft) |                  |                  |                  |                  |                  |                  |                  |                  |  |
|---------------------------------------------------------------|----------------------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
| Box<br>Width =<br>W (ft)                                      | Max<br>Circular<br>Pipe Size<br>(in) = | 2                   | 3                | 4                | 5                | 6                | 7                | 8                | 9                | 10               |  |
| 2                                                             | (18)                                   | 0'-8"Δ              | 0'-8"Δ           | 0'-8"Δ           | 0'-8"Δ           | 0'-8"Δ           | 0'-8"Δ           | 0'-8"Δ           | 1'-0"Δ           | 2'-0"Δ           |  |
| 3                                                             | (24)                                   | NA                  | 1'-0" /<br>(18") | 1'-0" /<br>(24") | 1'-0" /<br>(30") | 1'-0" /<br>(36") | 1'-0" /<br>(42") | 1'-0" /<br>(48") | 1'-0" /<br>(54") | 2'-0" /<br>(60") |  |
| 4                                                             | (36)                                   | NA                  | 1'-0" /<br>(18") | 1'-0" /<br>(24") | 1'-0" /<br>(30") | 1'-0" /<br>(36") | 1'-0" /<br>(42") | 1'-0" /<br>(48") | 1'-0" /<br>(54") | 2'-0" /<br>(60") |  |
| 5                                                             | (48)                                   | NA                  | NA               | 1'-6" /<br>(24") | 1'-6" /<br>(30") | 1'-6" /<br>(36") | 1'-6" /<br>(42") | 1'-6" /<br>(48") | 1'-6" /<br>(54") | 2'-0" /<br>(60") |  |
| 6                                                             | (60)                                   | NA                  | NA               | 1'-6" /<br>(24") | 1'-6" /<br>(30") | 1'-6" /<br>(36") | 1'-6" /<br>(42") | 1'-6" /<br>(48") | 1'-6" /<br>(54") | 2'-0" /<br>(60") |  |
| 7                                                             | (72)                                   | NA                  | NA               | 2'-0" /<br>(18") | 2'-0" /<br>(24") | 2'-0" /<br>(30") | 2'-0" /<br>(36") | 2'-0" /<br>(42") | 2'-0" /<br>(48") | 2'-0" /<br>(54") |  |
| 8                                                             | (72)                                   | NA                  | NA               | 2'-0" /<br>(18") | 2'-0" /<br>(24") | 2'-0" /<br>(30") | 2'-0" /<br>(36") | 2'-0" /<br>(42") | 2'-0" /<br>(48") | 2'-0" /<br>(54") |  |
| 9                                                             | (72)                                   | NA                  | NA               | 2'-0" /<br>(18") | 2'-0" /<br>(24") | 2'-0" /<br>(30") | 2'-0" /<br>(36") | 2'-0" /<br>(42") | 2'-0" /<br>(48") | 2'-0" /<br>(54") |  |
| 10                                                            | (84)                                   | NA                  | NA               | 2'-0" /<br>(18") | 2'-0" /<br>(24") | 2'-0" /<br>(30") | 2'-0" /<br>(36") | 2'-0" /<br>(42") | 2'-0" /<br>(48") | 2'-0" /<br>(54") |  |

There are 4 frame and grates required, hence n = 4, therefore L = 11'-11"

Base Width is pipe diameter plus 2x wall thickness:

$48" + 2(5") = 58"/12" = 4.83'$ . Round up to **W = 5.0'**

For structure height, consider the difference in elevations and the frame and grate height with adjusting rings along with the largest pipe diameter.

$1409.23' - 1402' - 11 \frac{3}{4}"/12" - 3"/12" = 6.00'$  therefore structure height, **H = 6.00'**

Diaphragm height is read from the table "Diaphragm Wall Height, B (ft) / (Max Circular Pipe Size (in))":

H = 6.0' W = 5.0'

Therefore diaphragm height, **B = 1'-6"**

**Note:** If the solution lands in the NA region of the table, the height of the inlet structure should be increased. This will in turn lower the invert elevation.

2) Determine Quantities based on tables given on Sheet 2.

Class M6 Concrete:

Concrete Equation 1, For **W > 2.0'**:

$[0.667 \cdot B \cdot W \cdot (n-1) + H \cdot (L + W + 1) + L \cdot (1.417 \cdot W + 0.75) - 3.25163 \cdot n + 0.75 \cdot (W + 1)] / 27$

Concrete Equation 2, For **W = 2.0'**:

$[0.667 \cdot B \cdot W \cdot (n-1) + H \cdot (L + W + 1) + 0.75 \cdot (W \cdot L + W + L + 1)] / 27$

Since W = 5.0', use Equation 1:

Where:

L = 11.92' W = 5.0' H = 6.00' B = 1.5' n = 4

$= [0.667 \cdot 1.5 \cdot 5 \cdot (4 - 1) + 6.00 \cdot (11.92 + 5 + 1) + 11.92 \cdot (1.417 \cdot 5 + 0.75) - 3.252 \cdot 4 + 0.75 \cdot (5 + 1)] / 27$   
 $= 7.68 \text{ Cu.Yd.}$

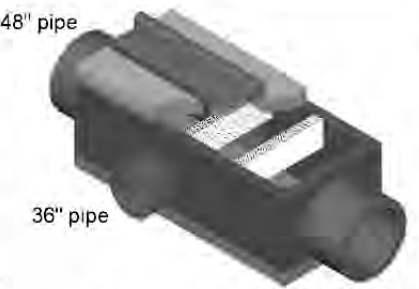
Determine pipe reductions

48" pipe = 0.34 Cu.Yd.

48" pipe = 0.34 Cu.Yd.

36" pipe = 0.20 Cu.Yd.

$7.68 - 0.34 - 0.34 - 0.20 = 6.80 \text{ Cu.Yd.}$



Isometric View

4 Frame and Grate Type B  
Curb Inlet Design Example

(Quantities Continued)

Reinforcement:

From the "Bar Size "A" @ Spacing "S"" table on sheet 2, the following is determined:

For W = 5' and H = 6.00'

Bar Size "A" = #4

Spacing "S" = 9"

With W > 2', and taking the Reinforcement Schedule on Sheet 2, the bar list is determined:

| Mk. | No.                                                                                                                                                         | Size | Length                                   | Type |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------|------|
| h1  | $W > 2': (12W+6)/(S-3) + (24W-36)/S + 3 = (12 \cdot 5 + 6)/(9 - 3) + (24 \cdot 5 - 36)/9 + 3 = 24 \text{ Bars}$<br>$W = 2': (12W+6)/(S-3) + 1$              | 5    | $L + 0.5' = 11.92 + 0.5 = 12.42'$        | Str. |
| h2  | $W > 2': (12L+6)/(S-3) + (24L+12)/S + 3 = (12 \cdot 11.92 + 6)/(9 - 3) + (24 \cdot 11.92 + 12)/9 + 3 = 61 \text{ Bars}$<br>$W = 2': (12L+6)/(S-3) + 1 + 2n$ | 5    | $W + 0.5' = 5 + 0.5 = 5.5'$              | Str. |
| h3  | $(n-1)/(4B+2) = (4-1)/(4 \cdot 1.5 + 2) = 24 \text{ bars}$                                                                                                  | 5    | $W - 0.33' = 5 - 0.33 = 4.67'$           | Str. |
| h4  | $W > 2': (24H-28)/S + 2 = (24 \cdot 6.00 - 28)/9 + 2 = 14.88 = 15 \text{ Bars}$<br>$W = 2': (24H-12)/S + 2$                                                 | A=4  | $L + 0.5' = 11.92 + 0.5 = 12.42'$        | Str. |
| h5  | $W > 2': (24H-28)/S + 2 = (24 \cdot 6.00 - 28)/9 + 2 = 14.88 = 15 \text{ Bars}$<br>$W = 2': (24H-12)/S + 2$                                                 | A=4  | $W + 0.5' = 5 + 0.5 = 5.5'$              | Str. |
| k1  | $W > 2': (48H+24L+24W-80)/S + 8 = (48 \cdot 6.00 + 24 \cdot 11.92 + 24 \cdot 5 - 80)/9 + 8 = 76.34 = 77 \text{ bars}$<br>$W = 2': (48H+24L+24W-48)/S + 8$   | A=4  | 3'-8"                                    | 17A  |
| p1  | $(24(L+W))/S + 4 = (24 \cdot (11.92 + 5))/9 + 4 = 49.12 = 50 \text{ Bars}$                                                                                  | A=4  | $H - 0.542' = 6.0 - 0.542 = 5.46'$       | Str. |
| u1  | $2(n-1)/(4B+2) = 2 \cdot (4-1)/(4 \cdot 1.5 + 2) = 48 \text{ bars}$                                                                                         | 5    | 2'-6"                                    | 17A  |
| u2  | $W > 2': 4W(n-1) = 4 \cdot 5 \cdot (4-1) = 60 \text{ bars}$<br>$W = 2': \theta$                                                                             | 4    | $0.42 \cdot B = 0.42 \cdot 1.5' = 1.92'$ | T9   |

Determine weight of all reinforcing steel:

#4 bar = 0.668 lb/ft

#5 bar = 1.042 lb/ft

The total weight is the sum of the product of the number of bars, length of each bar, and the lb/ft per bar.

$\Sigma[(\text{No.})(\text{Length})(\text{lb/ft})]$

h1 =  $(24)(12.42)(1.042) = 311 \text{ lb}$

h2 =  $(61)(5.5)(1.042) = 350 \text{ lb}$

h3 =  $(24)(4.67)(1.042) = 117 \text{ lb}$

h4 =  $(15)(12.42)(0.668) = 125 \text{ lb}$

h5 =  $(15)(5.5)(0.668) = 56 \text{ lb}$

k1 =  $(77)(3.667)(0.668) = 189 \text{ lb}$

p1 =  $(50)(5.46)(0.668) = 183 \text{ lb}$

u1 =  $(48)(2.5)(1.042) = 126 \text{ lb}$

u2 =  $(60)(1.92)(0.668) = 77 \text{ lb}$

$\Sigma = 1534 \text{ lb}$

Determine number of frame and grates required:

the number of frame and grate is: n = 4

Using the Estimated Quantities table on sheet 2, the frame and grate required are as follows:

Type B Frame and Grate Assembly - Left Flange = 1  
Type B Frame and Grate Assembly - No Flange = 2  
Type B Frame and Grate Assembly - Right Flange = 1  
Type B Frame and Grate Assembly - Right & Left Flange = 0

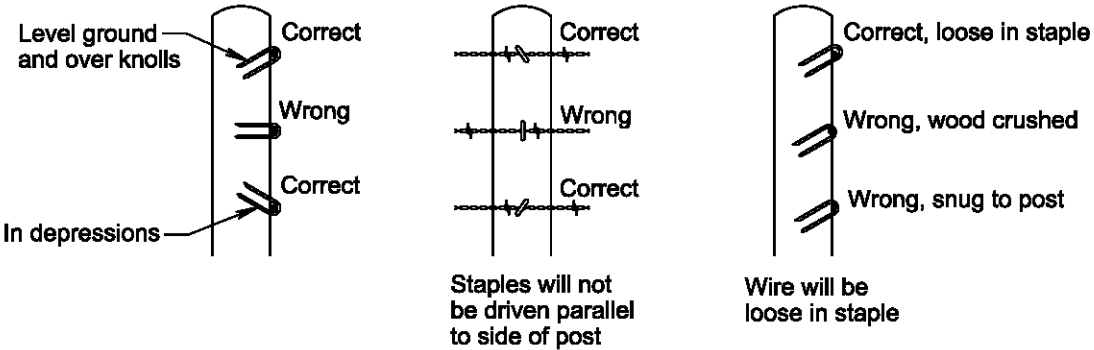
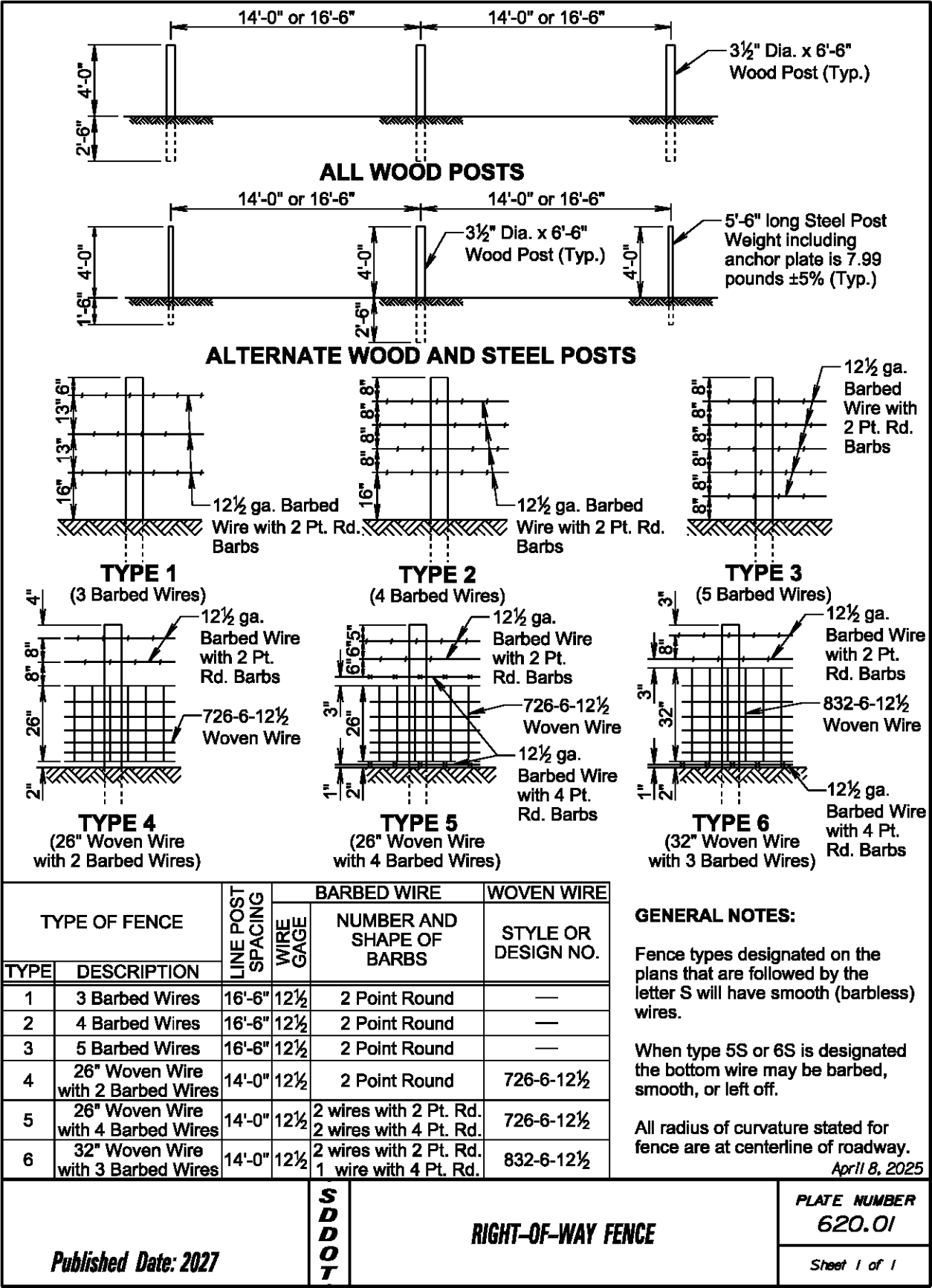
Type B Inlet  
Design Example



Specification  
Reference  
No. 460

Plate  
Number  
460.14





STAPLE INSTALLATION

GENERAL NOTES:

The Right-of-Way fence will consist of barbed wire or a combination of woven wire and barbed wire. The barbed wire and/or woven wire will be fastened to all wood posts or fastened to alternating wood and steel posts. Only wood posts will be used for brace panels. Gates will be of the type designated in the plans or as otherwise directed by the Engineer. Fence will be constructed conforming to the details on the standard plates and in the plans unless otherwise directed by the Engineer.

Right-of-Way fence on Interstate Projects will be constructed one foot within the Interstate Right-of-Way lines except at bridge openings, cattle passes, and as otherwise directed by the Engineer.

Right-of-Way fence other than on Interstate Projects will be constructed within one foot of the Right-of-Way on the Landowner's side except at bridge openings, cattle passes, and as otherwise directed by the Engineer.

Barbs will be fabricated from zinc coated 14 ga. wire. Two point barbs will be wrapped twice around one main strand at four-inch spacings and the four point barbs will be interlocked and wrapped around both main strands at five-inch spacings.

The gages of wire and wood post lengths and sizes are the minimum acceptable unless otherwise specified in the plans. The tolerances for steel posts will be as stated in AASHTO M281. Woven wire will conform to design and specifications of ASTM A116 and barbed wire will conform to ASTM A121.





**ELEVATION VIEW**  
(2 Post Panel)

**DETAIL A**

**ELEVATION VIEW**  
(3 Post Panel)

**DETAIL B**

**GENERAL NOTES:**

Two Post Panels will be installed at least every 1320' between corners.

Two Post Panels will be installed at any sharp vertical angle crest points and as directed by the Engineer.

Horizontal wood braces will consist of 4" dia. x 8' wood posts or rough 4" x 4" x 8' timbers.

Diagonal brace wires will be fabricated with 4 strands of 9 Ga. galvanized wire twisted tight. The diagonal brace wires will be installed in accordance with the direction of the fence pull. Two diagonal brace wires are required if fence pull is in both directions.

March 31, 2024

SDOT

BRACE PANELS AND APPLICATIONS OF BRACE PANELS

Published Date: 2027

PLATE NUMBER

620.03

Sheet 1 of 3

| RADIUS OF CURVE       | SPACING OF 2 POST PANEL                                    |
|-----------------------|------------------------------------------------------------|
| Greater than 1800 Ft. | ** 1320'                                                   |
| Less than 1800 Ft.    | ** At P.C., P.T., and at every 1320' between P.C. and P.T. |

\*\* Fence lengths greater than 1320' and less than 2640' place 2 Post Panel approximately at midpoint.

① See Detail B on Sheet 1 of 3.

**GENERAL NOTE:**

All radius of curvature stated for fence are at centerline of roadway.

If fence length is less than 600' to next corner use a 2 post panel.

\* If fence length is greater than 600' to next corner use a 3 post panel.

**BEGIN OR END FENCE**  
(Where new fence ties into existing fence)

**SHORT JOGS IN FENCE**

**CROSS FENCE**

**SHARP ANGLES IN CROSS FENCE**

**ANGLES IN MAINLINE FENCE**

March 31, 2024

SDOT

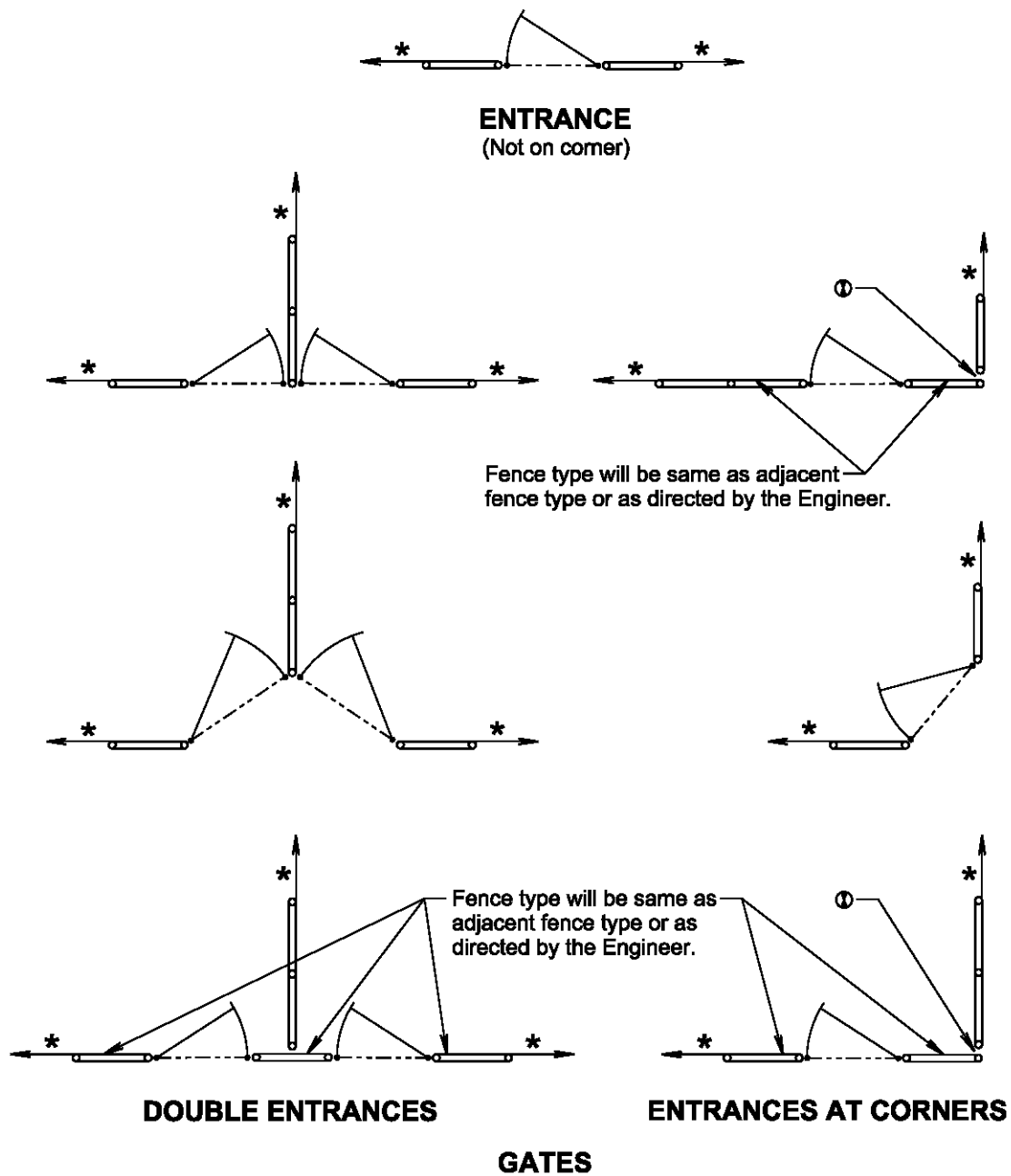
BRACE PANELS AND APPLICATIONS OF BRACE PANELS

Published Date: 2027

PLATE NUMBER

620.03

Sheet 2 of 3



\* If fence length is less than 600' to next corner use a 2 post panel.  
\* If fence length is greater than 600' to next corner use a 3 post panel.  
① See Detail B on Sheet 1 of 3.

March 31, 2024

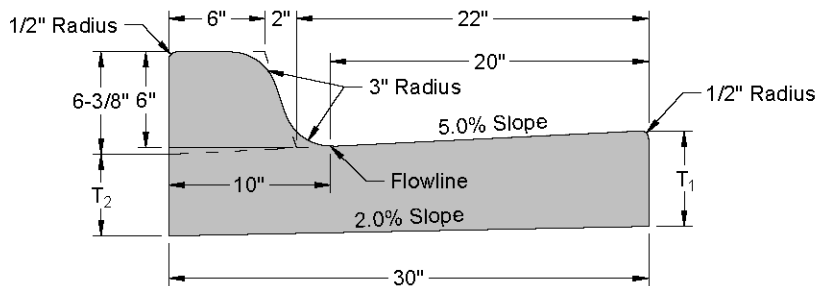
Published Date: 2027

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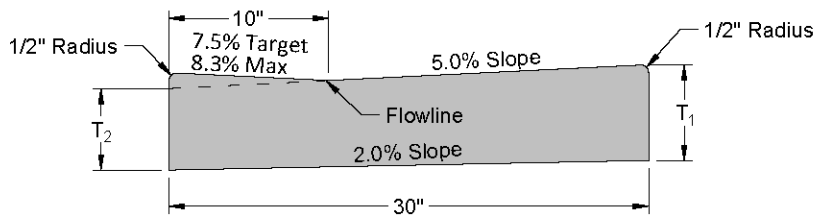
**BRACE PANELS AND  
APPLICATIONS OF BRACE PANELS**

PLATE NUMBER  
620.03

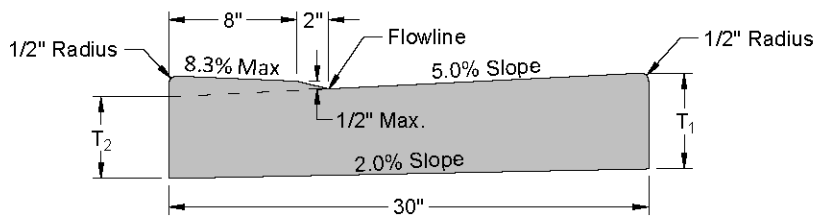
Sheet 3 of 3



Standard Curb and Gutter



Drop Curb for ADA Curb Ramps



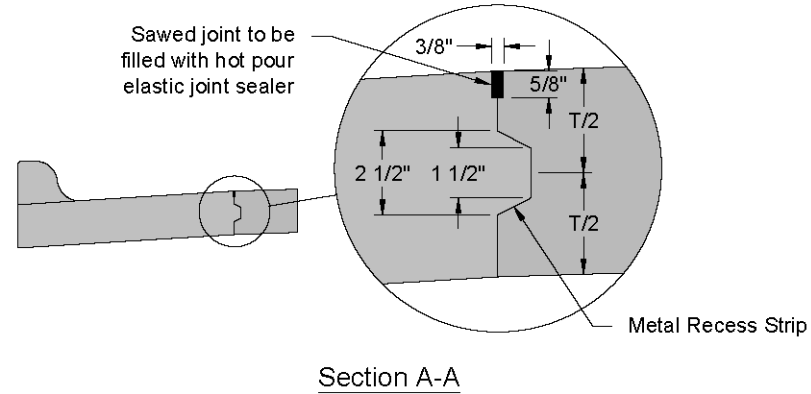
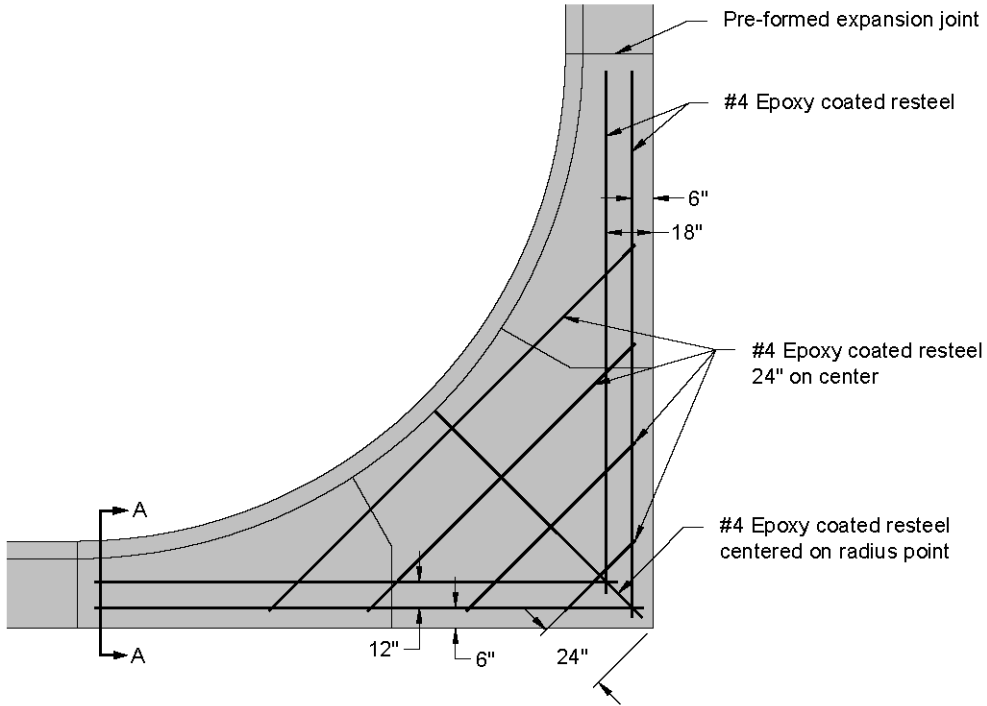
Drop Curb for Driveway Approach

T<sub>1</sub> = Thickness shall be equal to the depth of the adjacent pavement but not less than 6"  
T<sub>2</sub> = T<sub>1</sub> 7/8"

**GENERAL NOTES:**

- 1) On PCC pavement a keyway longitudinal joint with tie bars shall be used when curb and gutter is poured separately.
- 2) Curb and gutter shall be constructed using M-6 concrete unless monolithically constructed with the adjacent pavement. In monolithic paving, concrete mix for the curb and gutter may be the same as the adjacent concrete pavement.
- 3) The curb transition length at ADA curb ramps will be dependent on the type of curb ramp being installed. The plans should call out the length of the transitions. Refer to plate 651.02 for additional curb transition information.

Issued: January 2017



General Notes

1. All reinforcing steel shall have 1 1/2" clearance and shall conform to ASTM A615, grade 40.
2. M-6 concrete shall be used in the construction of the fillets.
3. The curb shall be monolithic with the fillet. No separate payment will be made for the curb as it will be considered part of the fillet.
4. Fillet thickness shall be equal to the depth of adjoining pavement but not less than 6".
5. Fillets adjacent to PCC pavement shall have a keyway construction joint without tie bar.
6. Fillets shall be measured and paid for at the contract unit price per square yard of fillet section. Payment includes all labor and materials necessary to complete the work.
7. The plans will call out the curb opening locations, taper lengths and slopes to meet ADA accessibility. If not, contact the City Engineer's office to provide this information.

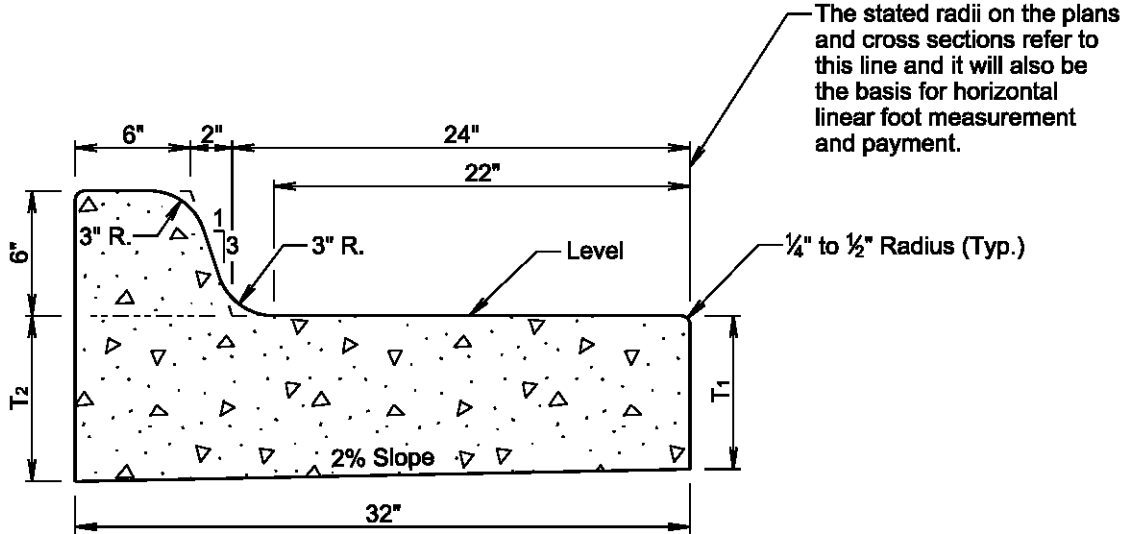
Issued: December 2016



Concrete Fillet

Specification  
Reference  
No. 650

Plate  
Number  
650.04



| TYPE BL CONCRETE CURB AND GUTTER |                            |                            |                            |                            |
|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Type                             | T <sub>1</sub><br>(Inches) | T <sub>2</sub><br>(Inches) | Cu. Yd.<br>Per<br>Lin. Ft. | Lin. Ft.<br>Per<br>Cu. Yd. |
| BL66                             | 6                          | 6 5/8                      | 0.063                      | 15.9                       |
| BL67                             | 7                          | 7 5/8                      | 0.071                      | 14.1                       |
| BL68                             | 8                          | 8 5/8                      | 0.080                      | 12.5                       |
| BL68.5                           | 8.5                        | 9 1/8                      | 0.084                      | 11.9                       |
| BL69                             | 9                          | 9 5/8                      | 0.088                      | 11.4                       |
| BL69.5                           | 9.5                        | 10 1/8                     | 0.092                      | 10.9                       |
| BL610                            | 10                         | 10 5/8                     | 0.096                      | 10.4                       |
| BL610.5                          | 10.5                       | 11 1/8                     | 0.100                      | 10.0                       |
| BL611                            | 11                         | 11 5/8                     | 0.104                      | 9.6                        |
| BL611.5                          | 11.5                       | 12 1/8                     | 0.108                      | 9.3                        |
| BL612                            | 12                         | 12 5/8                     | 0.112                      | 8.9                        |

GENERAL NOTES:

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

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

January 22, 2023

Published Date: 2027

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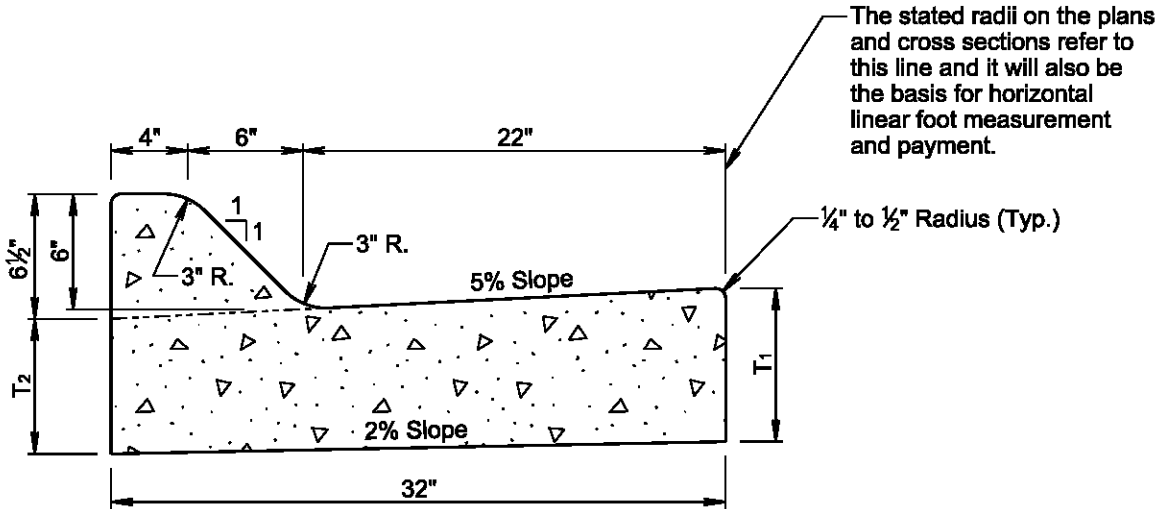
TYPE BL CONCRETE CURB AND GUTTER

PLATE NUMBER  
650.05

Sheet 1 of 1







| TYPE F CONCRETE CURB AND GUTTER |                            |                            |                            |                            |
|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Type                            | T <sub>1</sub><br>(Inches) | T <sub>2</sub><br>(Inches) | Cu. Yd.<br>Per<br>Lin. Ft. | Lin. Ft.<br>Per<br>Cu. Yd. |
| F66                             | 6                          | 5 $\frac{1}{16}$           | 0.057                      | 17.6                       |
| F67                             | 7                          | 6 $\frac{1}{16}$           | 0.065                      | 15.4                       |
| F68                             | 8                          | 7 $\frac{1}{16}$           | 0.073                      | 13.6                       |
| F68.5                           | 8.5                        | 7 $\frac{9}{16}$           | 0.077                      | 12.9                       |
| F69                             | 9                          | 8 $\frac{1}{16}$           | 0.082                      | 12.3                       |
| F69.5                           | 9.5                        | 8 $\frac{9}{16}$           | 0.086                      | 11.7                       |
| F610                            | 10                         | 9 $\frac{1}{16}$           | 0.090                      | 11.1                       |
| F610.5                          | 10.5                       | 9 $\frac{9}{16}$           | 0.094                      | 10.7                       |
| F611                            | 11                         | 10 $\frac{1}{16}$          | 0.098                      | 10.2                       |
| F611.5                          | 11.5                       | 10 $\frac{9}{16}$          | 0.102                      | 9.8                        |
| F612                            | 12                         | 11 $\frac{1}{16}$          | 0.106                      | 9.4                        |

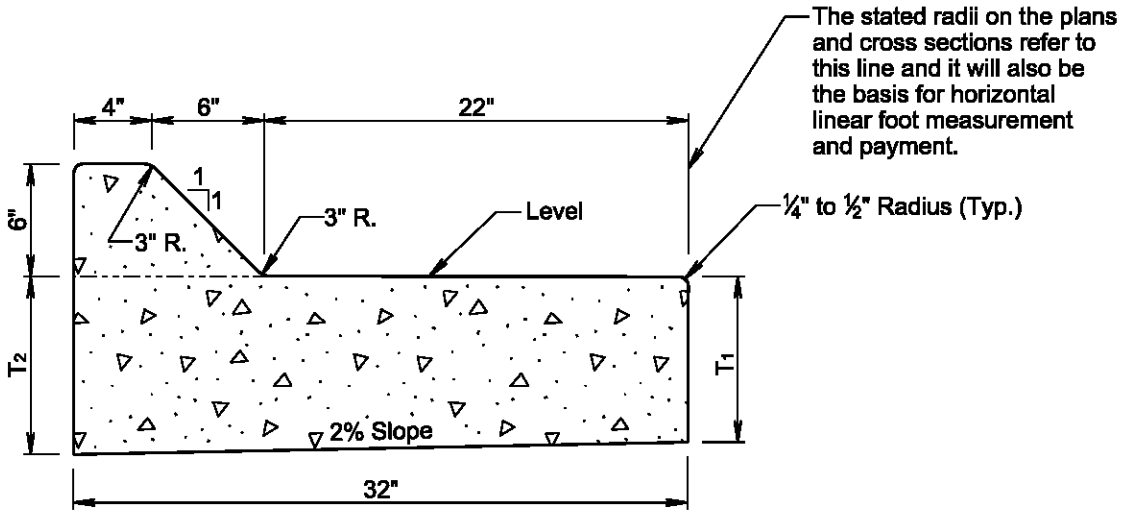
GENERAL NOTES:

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: 2027 | S<br>D<br>D<br>O<br>T | TYPE F CONCRETE CURB AND GUTTER | PLATE NUMBER<br>650.20 |
|                      |                       |                                 | Sheet 1 of 1           |



| TYPE FL CONCRETE CURB AND GUTTER |                            |                            |                            |                            |
|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Type                             | T <sub>1</sub><br>(Inches) | T <sub>2</sub><br>(Inches) | Cu. Yd.<br>Per<br>Lin. Ft. | Lin. Ft.<br>Per<br>Cu. Yd. |
| FL66                             | 6                          | 6 $\frac{5}{16}$           | 0.062                      | 16.1                       |
| FL67                             | 7                          | 7 $\frac{5}{16}$           | 0.071                      | 14.1                       |
| FL68                             | 8                          | 8 $\frac{5}{16}$           | 0.079                      | 12.7                       |
| FL68.5                           | 8.5                        | 9 $\frac{5}{16}$           | 0.084                      | 11.9                       |
| FL69                             | 9                          | 9 $\frac{5}{16}$           | 0.087                      | 11.5                       |
| FL69.5                           | 9.5                        | 10 $\frac{5}{16}$          | 0.091                      | 11.0                       |
| FL610                            | 10                         | 10 $\frac{5}{16}$          | 0.095                      | 10.9                       |
| FL610.5                          | 10.5                       | 11 $\frac{5}{16}$          | 0.100                      | 10.0                       |
| FL611                            | 11                         | 11 $\frac{5}{16}$          | 0.104                      | 9.6                        |
| FL611.5                          | 11.5                       | 12 $\frac{5}{16}$          | 0.108                      | 9.3                        |
| FL612                            | 12                         | 12 $\frac{5}{16}$          | 0.112                      | 8.9                        |

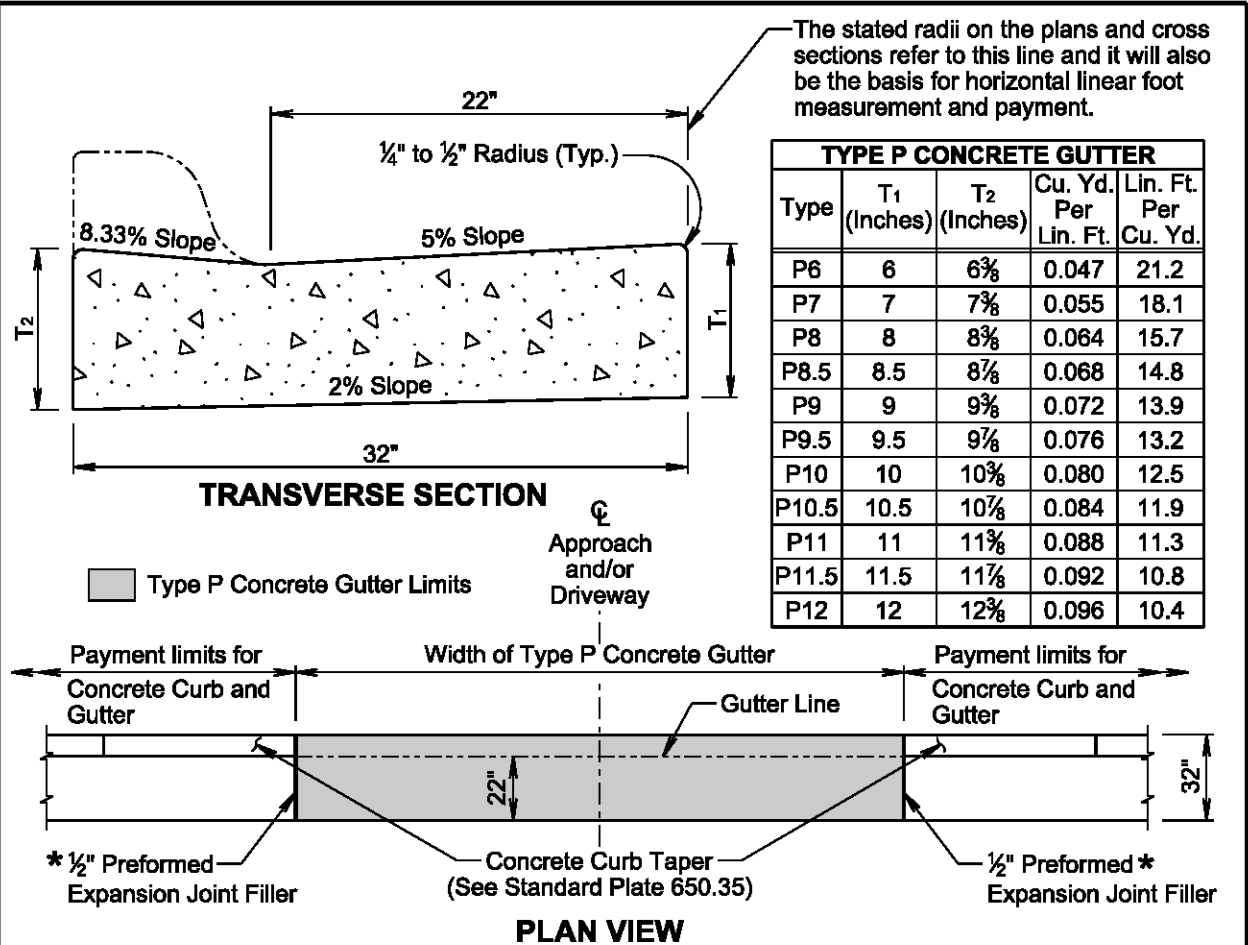
GENERAL NOTES:

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

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

January 22, 2023

|                      |                       |                                  |                        |
|----------------------|-----------------------|----------------------------------|------------------------|
| Published Date: 2027 | S<br>D<br>D<br>O<br>T | TYPE FL CONCRETE CURB AND GUTTER | PLATE NUMBER<br>650.25 |
|                      |                       |                                  | Sheet 1 of 1           |



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

**GENERAL NOTES:**

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

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

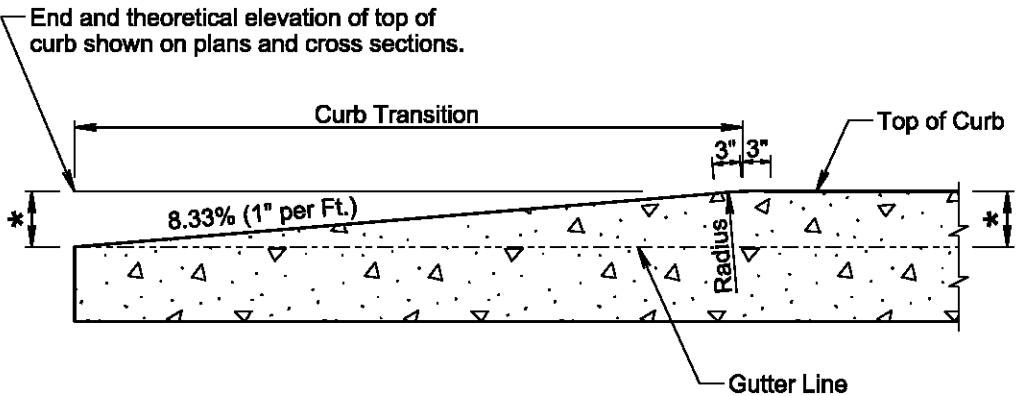
Transverse contraction joints will be constructed at 10-foot intervals in the concrete gutter except when concrete gutter is constructed adjacent to mainline PCC pavement. When concrete gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint will be constructed in the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

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

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

January 22, 2023

|                      |                       |                        |              |
|----------------------|-----------------------|------------------------|--------------|
| Published Date: 2027 | S<br>D<br>D<br>O<br>T | TYPE P CONCRETE GUTTER | PLATE NUMBER |
|                      |                       |                        | 650.30       |
|                      |                       |                        | Sheet 1 of 1 |



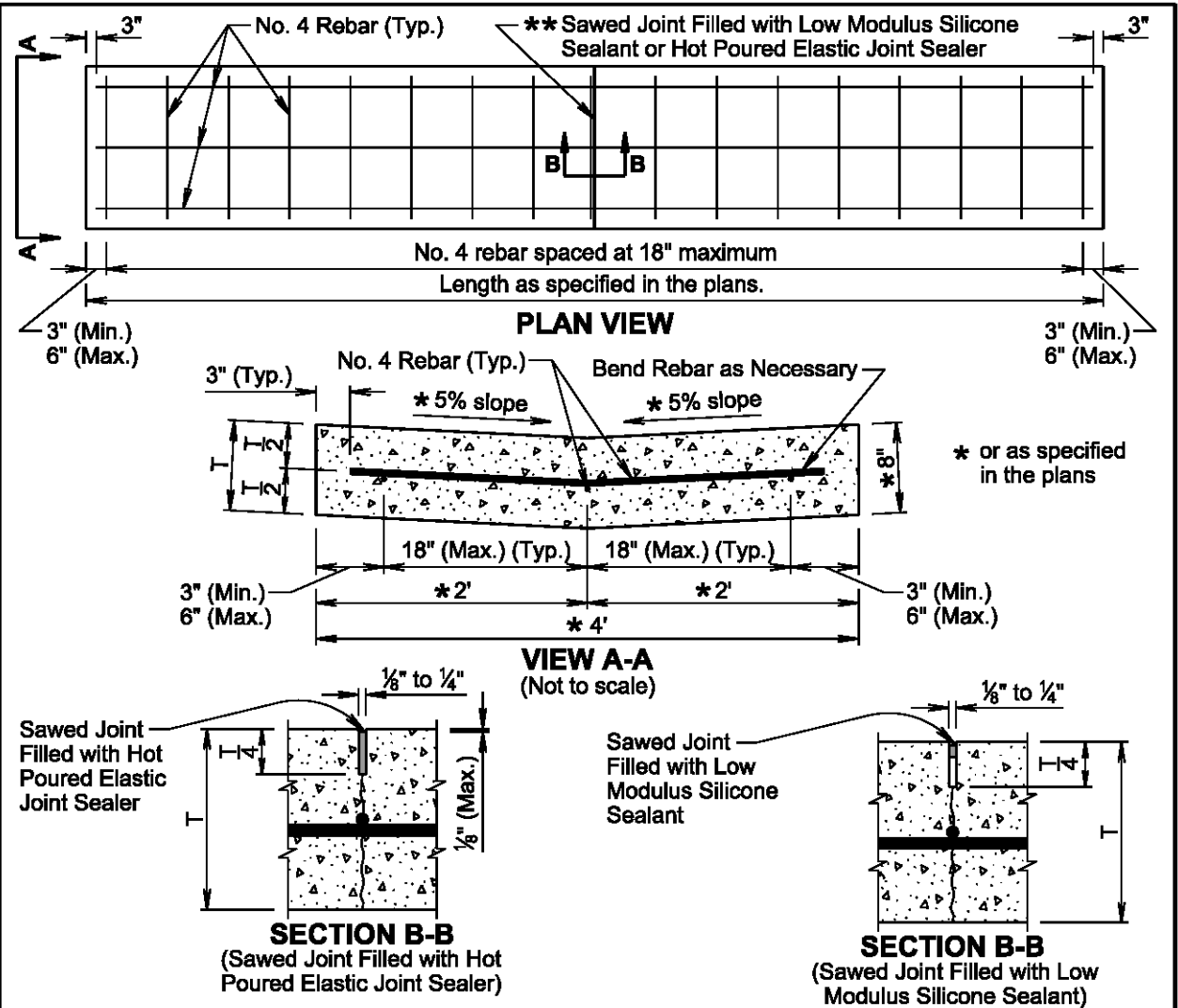
\* Height of Curb

December 23, 2019

|                      |                       |                     |              |
|----------------------|-----------------------|---------------------|--------------|
| Published Date: 2027 | S<br>D<br>D<br>O<br>T | CONCRETE CURB TAPER | PLATE NUMBER |
|                      |                       |                     | 650.35       |
|                      |                       |                     | Sheet 1 of 1 |

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT<br>NH 0100(107)411<br>P 1440(00) & P 1432(00) | SHEET<br>B157 | TOTAL<br>SHEETS<br>B174 |
|-----------------------------|-------------------------------------------------------|---------------|-------------------------|
|-----------------------------|-------------------------------------------------------|---------------|-------------------------|

Plotting Date: 7/21/2026



**GENERAL NOTES:**

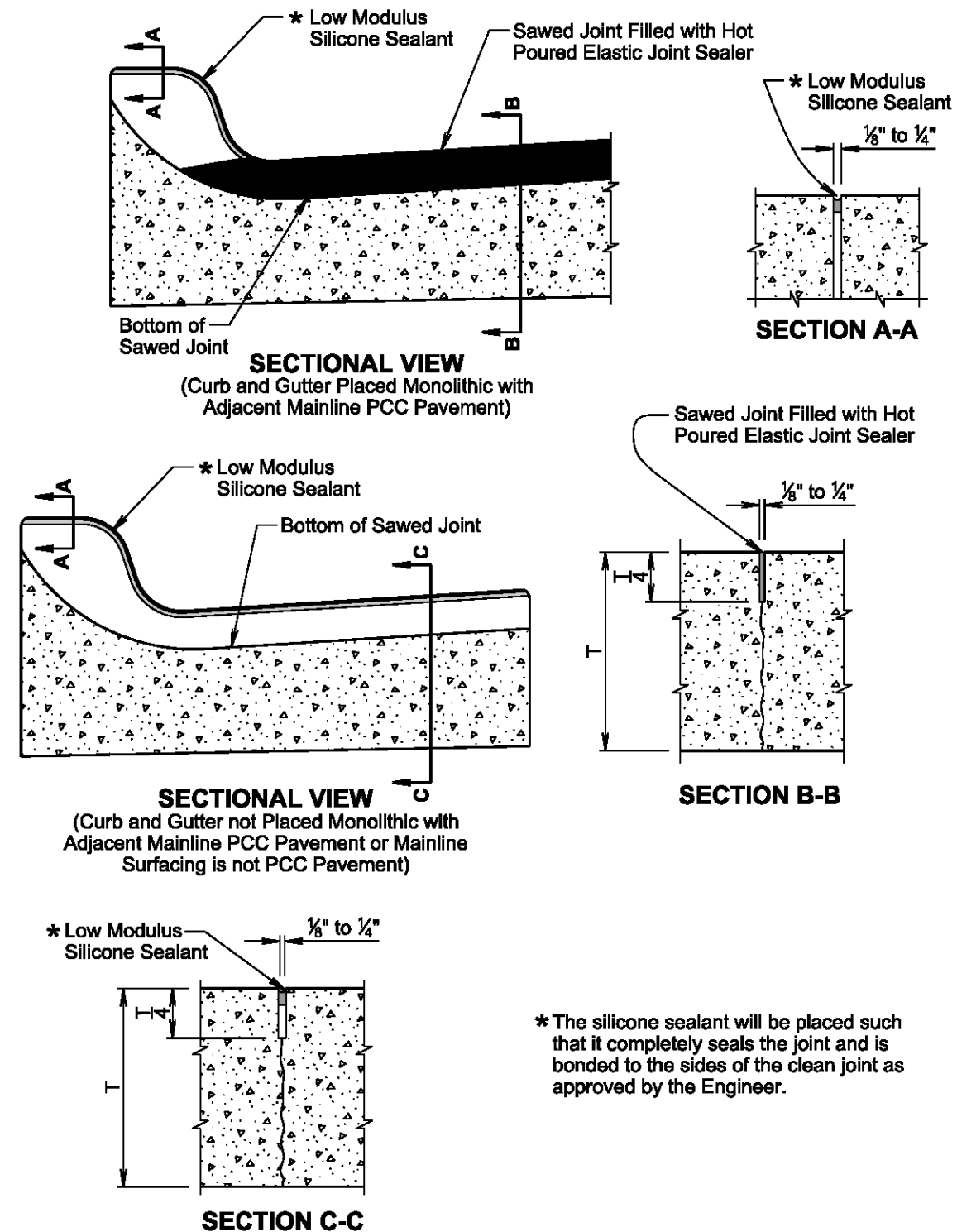
- The concrete will comply with the specifications for class M6 concrete.
- The reinforcing steel will comply with the requirements of specification sections 480 and 1010.
- If a lap splice is provided the No. 4 rebar will be lapped a minimum of 12 inches.
- \*\*** The sawed joints will be spaced at 12 feet; however, when the length of the valley gutter is 12 feet to 24 feet there will be a joint at the midpoint of the length. The saw cut to control cracking will be a minimum of 1/4 the thickness of the pavement.
- All hot poured elastic joint sealer material spilled on the surface of the concrete pavement will be removed as soon as the material has cooled. The extent of removal of material will be to the satisfaction of the Engineer. All costs for removal of the spilled joint sealer material will be borne by the Contractor.
- The silicone sealant will be bonded to the sides of a clean joint to completely seal the joint as approved by the Engineer.
- All costs for furnishing and installing the valley gutter including materials, equipment, labor, and incidentals will be included in the contract unit price per square yard for the corresponding Valley Gutter contract item.

December 23, 2019

|                      |                       |               |                        |
|----------------------|-----------------------|---------------|------------------------|
| Published Date: 2027 | S<br>D<br>D<br>O<br>T | VALLEY GUTTER | PLATE NUMBER<br>650.40 |
|                      |                       |               | Sheet 1 of 1           |



Plotting Date: 7/21/2026



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

December 23, 2019

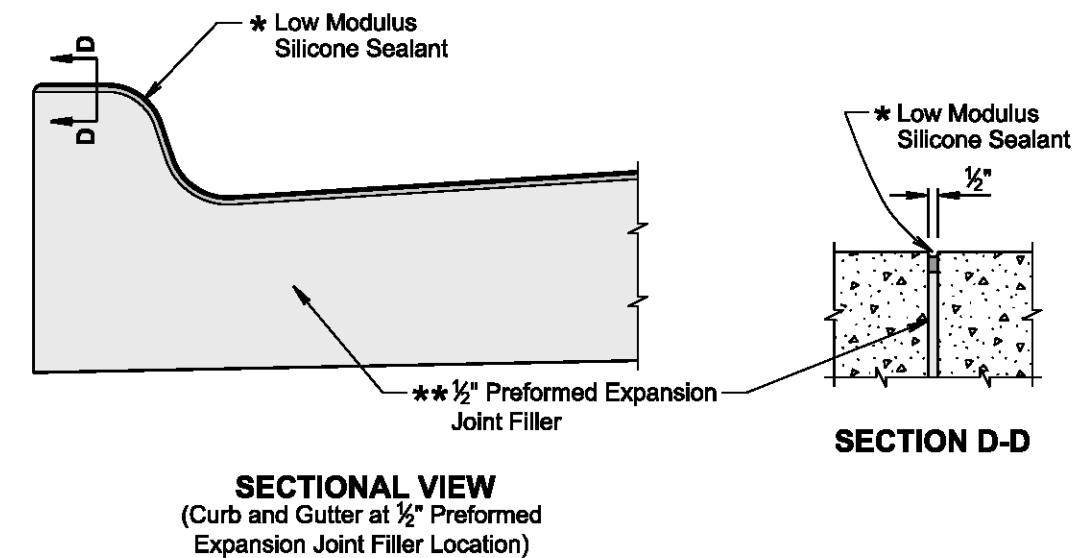
**Published Date: 2027**

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### JOINTS IN CONCRETE CURB AND GUTTER

**PLATE NUMBER**  
**650.90**

Sheet 1 of 2



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

**GENERAL NOTES:**

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

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

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

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

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

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

December 23, 2019

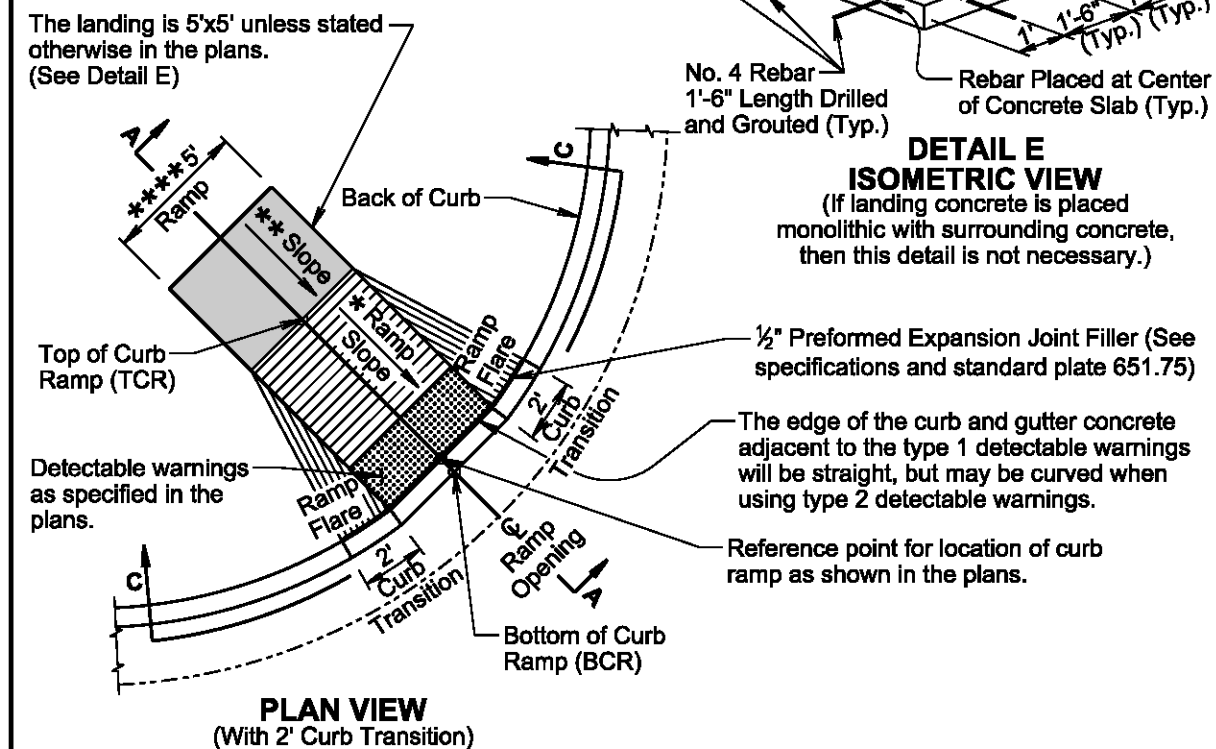
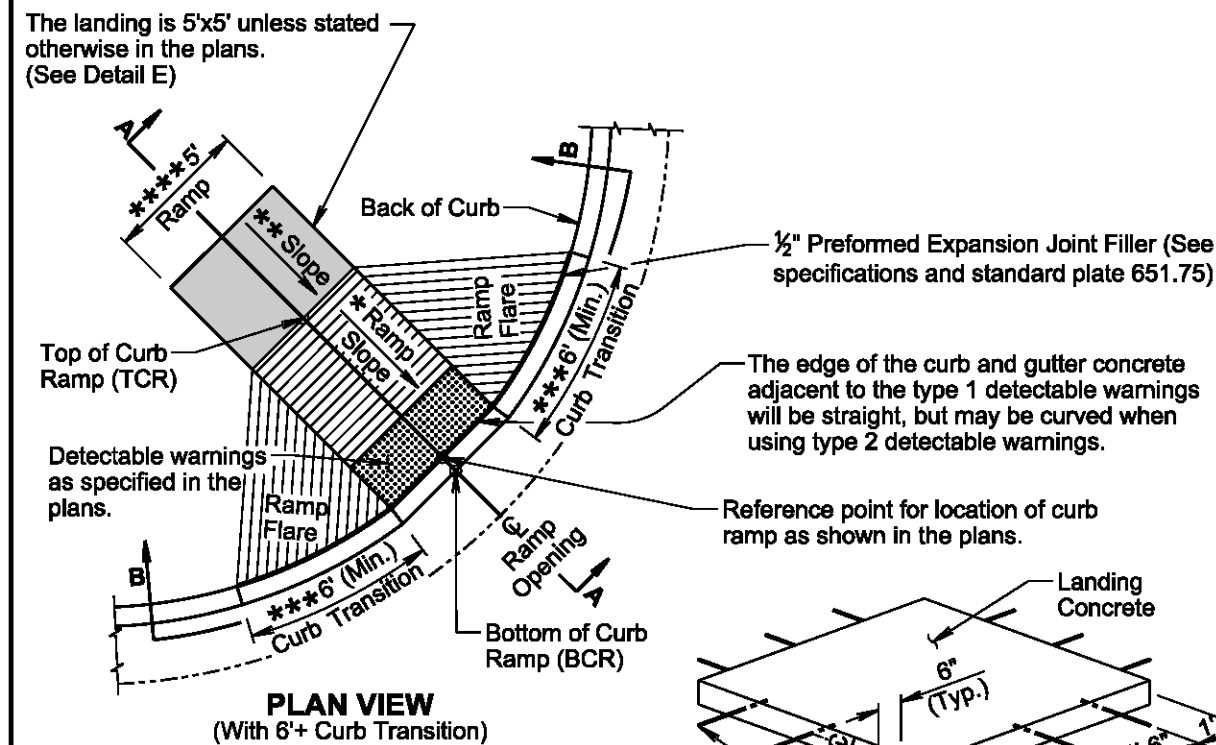
**Published Date: 2027**

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### JOINTS IN CONCRETE CURB AND GUTTER

**PLATE NUMBER**  
**650.90**

Sheet 2 of 2



April 8, 2025

**Published Date: 2027**

***SDOT***

**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.

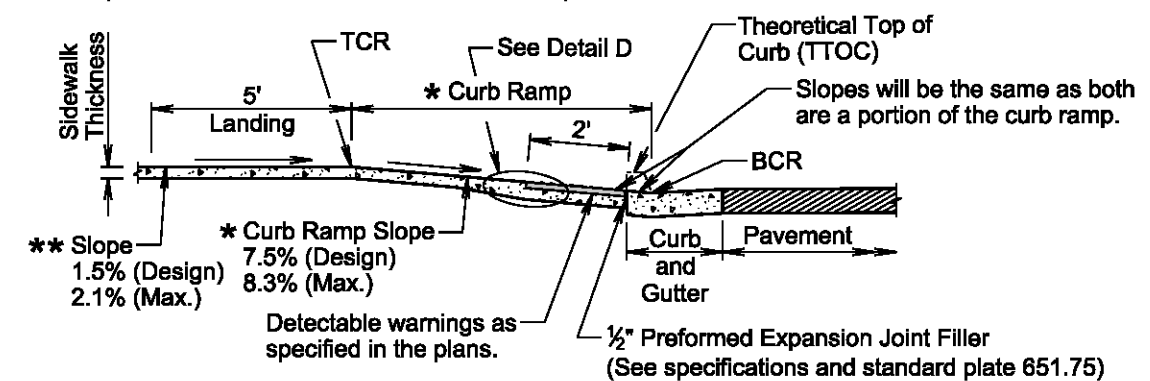
\* The curb ramp length may be computed based on the intersection of a continuous 1.5% theoretical slope from theoretical top of curb (TTOC) with the curb ramp using a continuous 7.5% curb ramp slope. The elevation of point TCR will always be higher than the elevation of point TTOC unless specified otherwise 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.

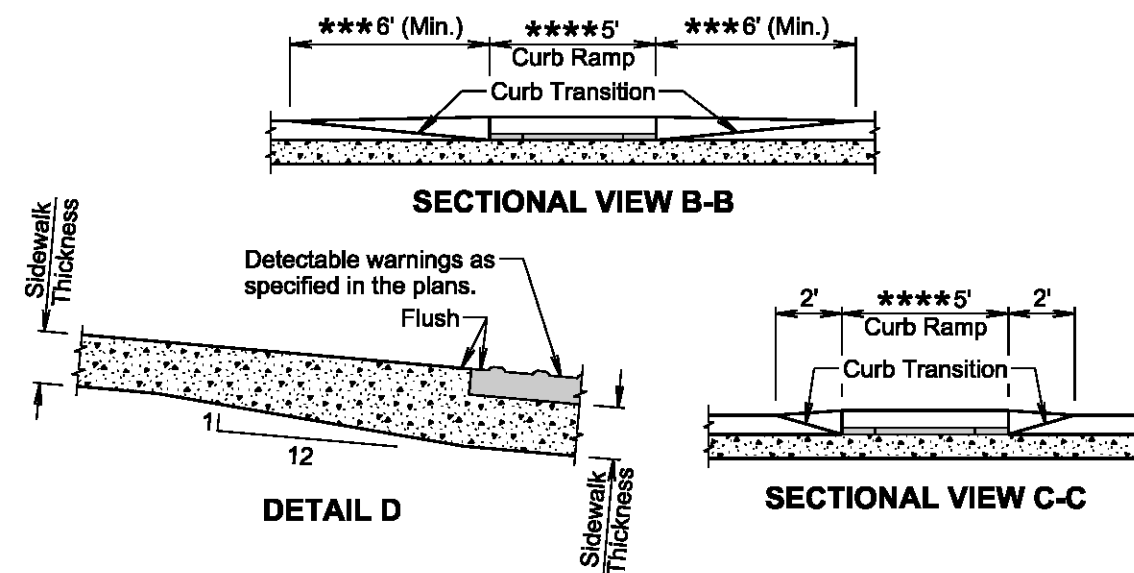
**\*\*The slope in the landing will not be steeper than 2.1% in any direction of pedestrian travel. Plans are designed using a 1.5% slope unless stated otherwise in the plans.**

\*\*\* 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**



### DETAIL D

### SECTIONAL VIEW C-C

April 8, 2025

**Published Date: 2027**

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**TYPE 1 CURB RAMP  
(PERPENDICULAR CURB RAMP)**

PLATE NUMBER  
651.01

Sheet 2 of 3

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                                    | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------------|-------|-----------------|
|                             | NH 0100(107)411<br>P 1440(00) & P 1432(00) | B160  | B174            |

Plotting Date: 7/21/2026

**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".

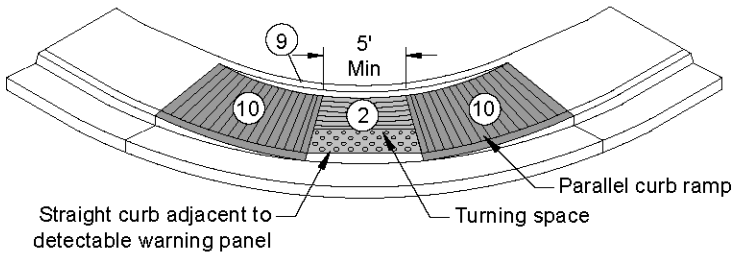
Type 2 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding will be paid for at the contract unit price per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

April 8, 2025

|                      |                       |                                               |                        |
|----------------------|-----------------------|-----------------------------------------------|------------------------|
| Published Date: 2027 | S<br>D<br>D<br>O<br>T | TYPE 1 CURB RAMP<br>(PERPENDICULAR CURB RAMP) | PLATE NUMBER<br>651.01 |
|                      |                       |                                               | Sheet 3 of 3           |

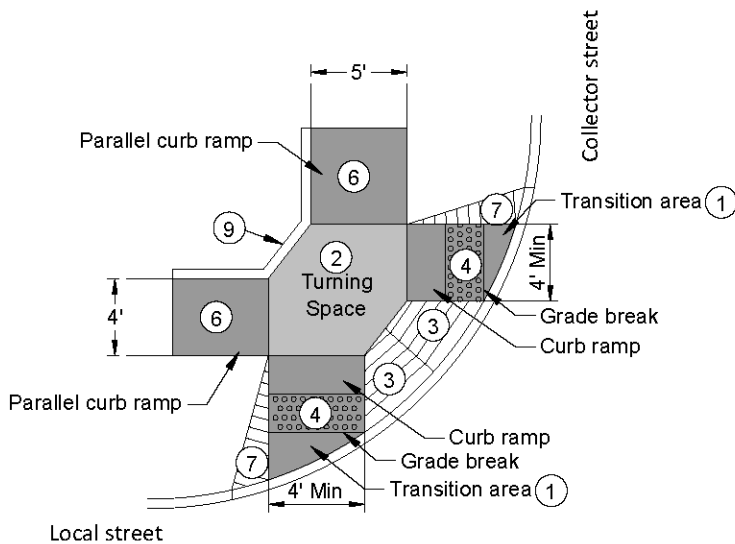


Parallel Curb Ramp Example

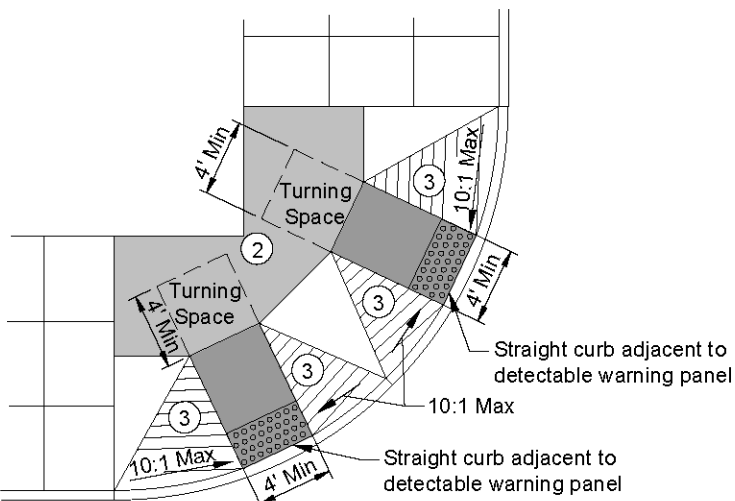


Directional Sidewalk Ramp Example

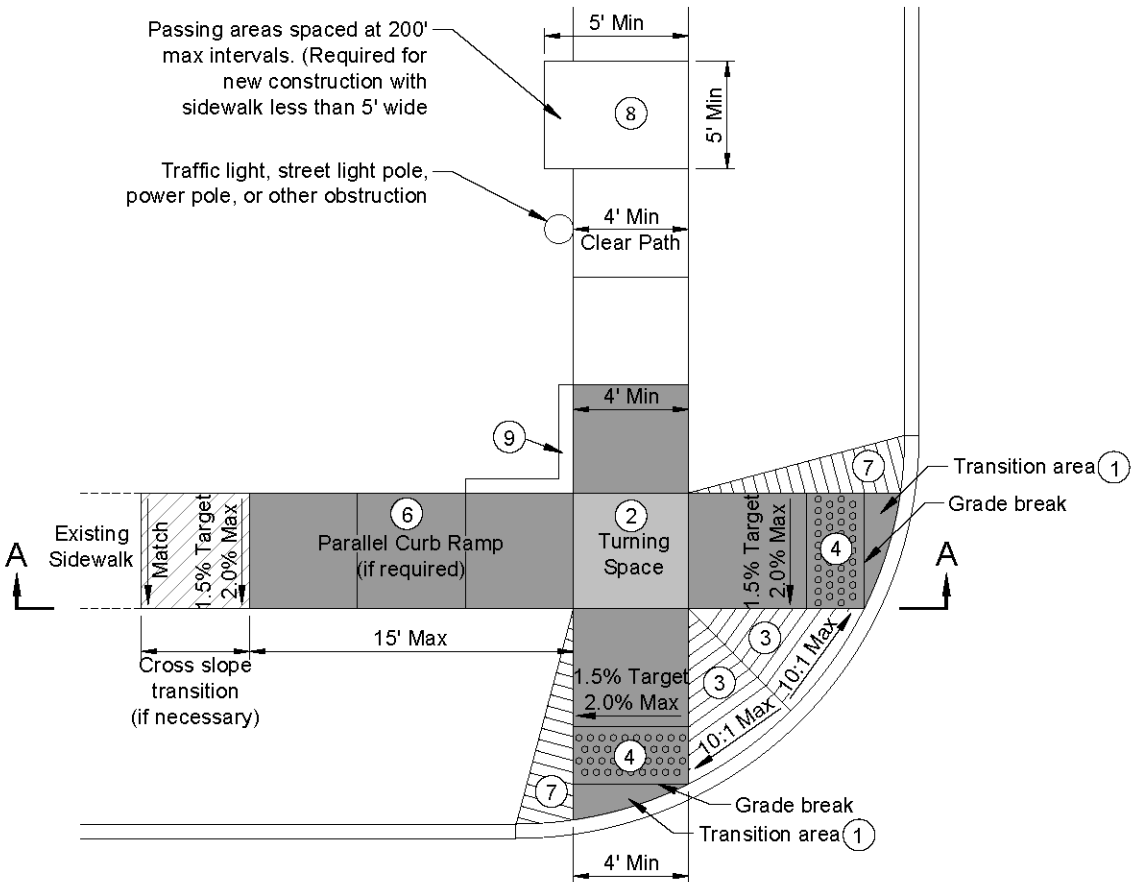
(Typical of a local/collector intersection with a 20' radius)



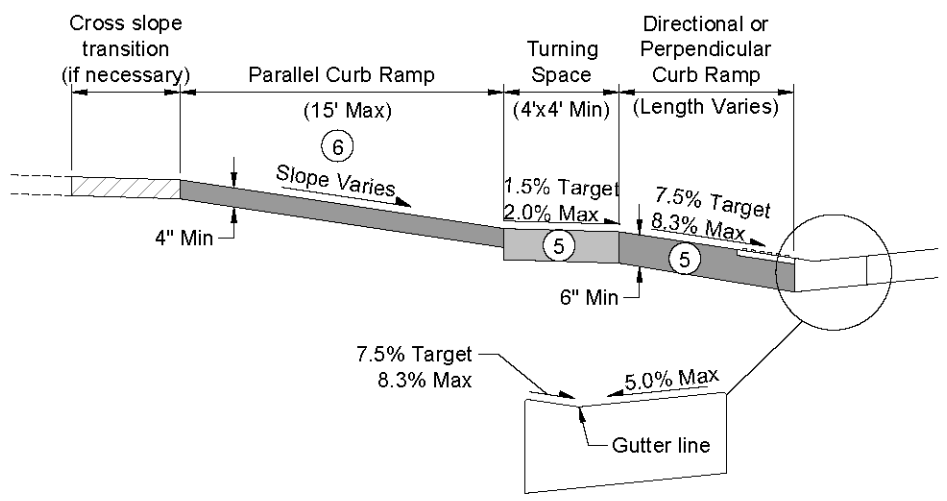
Perpendicular Curb Ramp Example



Directional Sidewalk Ramp Example



Section A-A



Notes:

- Transition from the the 2% maximum cross slope on the ramp and the pedestrian street crossing grade in this area. The maximum cross slope on the pedestrian street crossing (including the fillet or curb and gutter) is 2% on stop or yield controlled legs and 5% on uncontrolled or signalized legs.
- Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0% in any direction. Where the turning space is confined at the back of sidewalk (example: 6" curb or building), the turning space shall be 4 foot by 5 foot minimum. The 5 foot dimension shall be in the direction of the ramp run. The grade change between the turning space and the curb ramp must be perpendicular to the direction of travel.
- Areas where the pedestrian circulation path crosses a curb ramp are considered flare sides. The maximum slope of the flare sides is 10%. Full curb height may not be able to be reestablished on flare slopes but as much curb height as possible should be reestablished.
- Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares. Orient domes in the direction of pedestrian travel unless otherwise stated in plans.
- The concrete in the turning space, curb ramp, and flare slope areas shall be a minimum thickness of 6 inches.
- If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and turning space due to limited ramp length, provide a parallel ramp to make up the elevation difference between the turning space and the standard sidewalk. This parallel ramp shall not exceed 8.3% slope. However, the length of the ramp is not required to exceed 15 feet, regardless of slope. The minimum sidewalk thickness for the parallel ramp in this area is 4 inches.
- Install a 2 foot taper when additional sidewalk will not be located adjacent to the curb ramp.
- To accommodate the passing area requirement, sidewalks must be a minimum of 5 foot wide through the driveway approach. See plate 651.01 for additional information.
- Depending on the conditions, a curb up to 6 inches high may need to be installed on the back of the turning space or adjoining sidewalk.
- The slope of curb ramp and adjacent curb is designed at 7.5% or less but shall not be steeper than 8.3% unless otherwise specified in the plans. The curb ramp is not required to exceed 15 feet, regardless of slope. The cross slope target is 1.5% with a maximum cross slope of 2.0%.

General Notes:

The turning space, curb ramp, and detectable warning panel area will be paid for at the contact unit price for the corresponding concrete sidewalk bid item.

The detectable warning panel shall be measured and paid for to the nearest square foot. Payment shall include all costs for materials, labor, and equipment necessary for the installation of the detectable warning panels.

Revised: December 2016

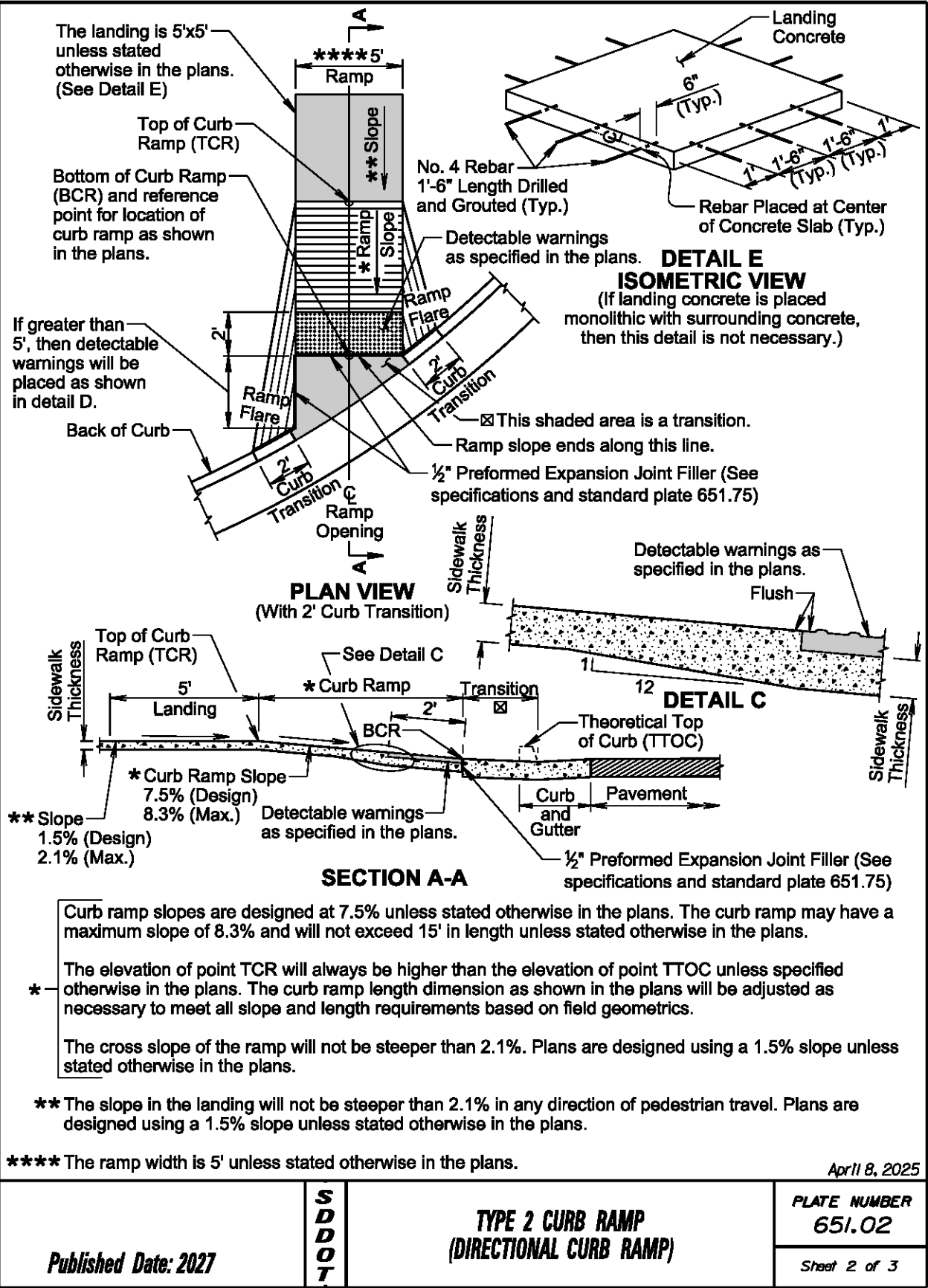
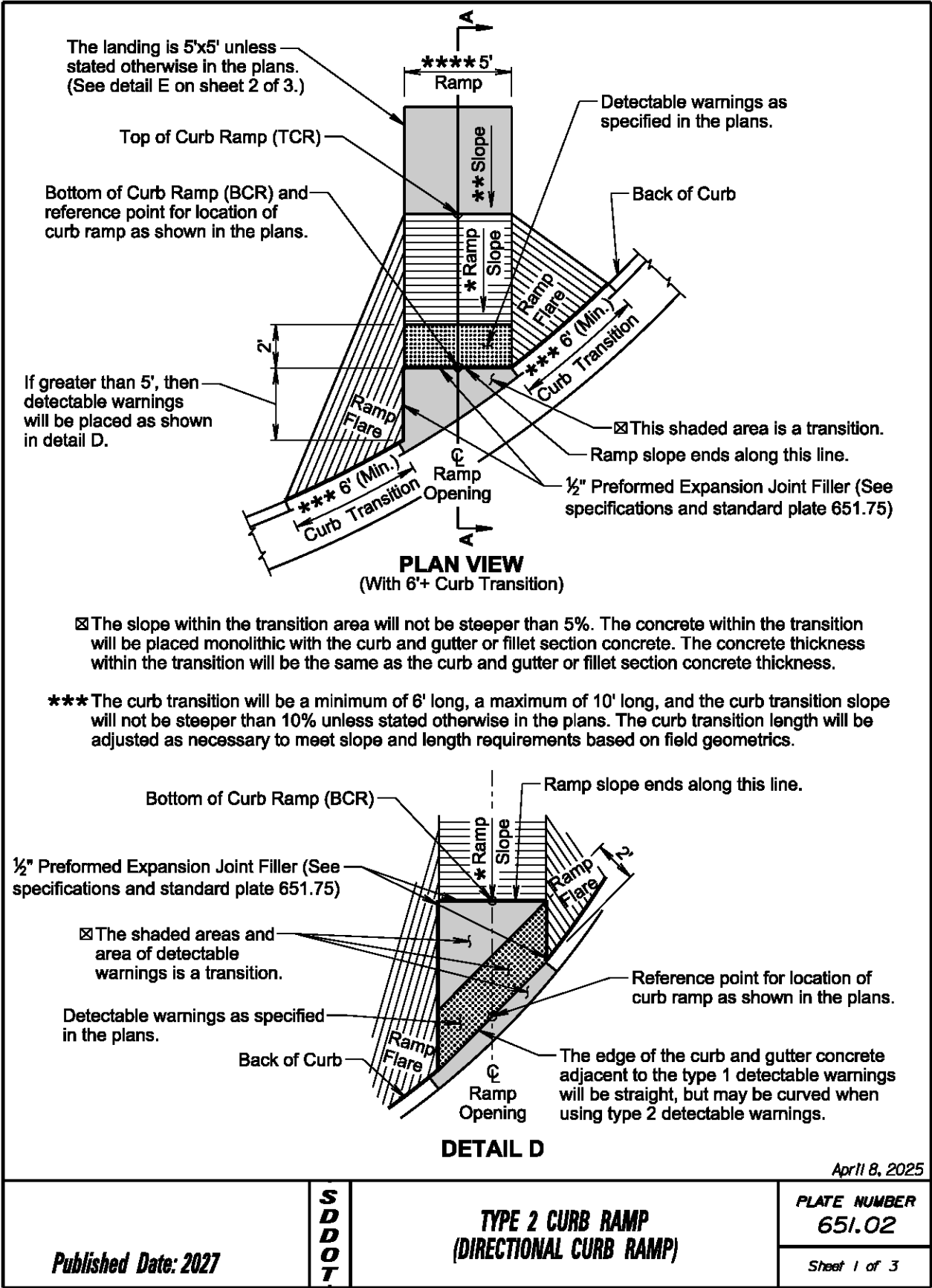
Accessible Curb Ramps



Specification  
Reference  
No. 650

Plate  
Number  
651.02





**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

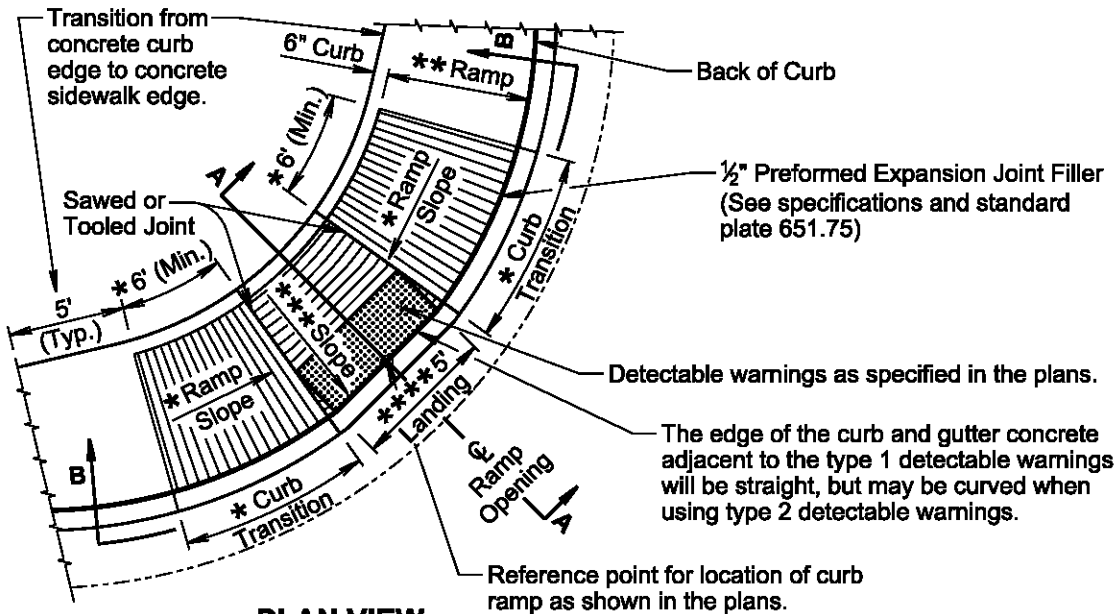
Published Date: 2027

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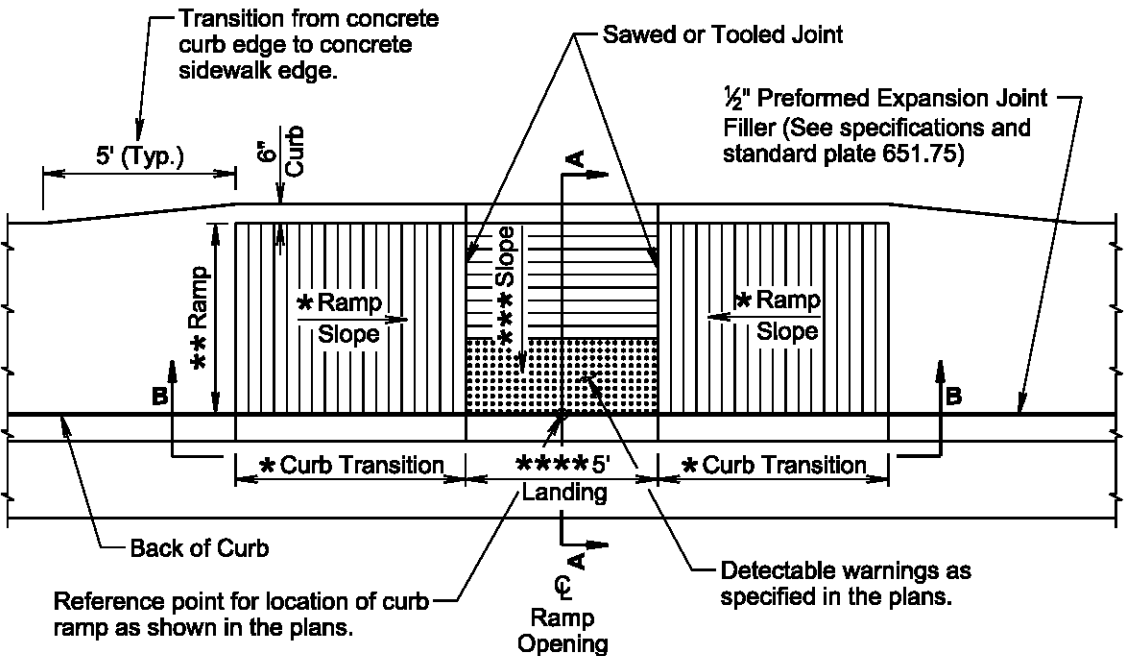
**TYPE 2 CURB RAMP  
(DIRECTIONAL CURB RAMP)**

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: 2027

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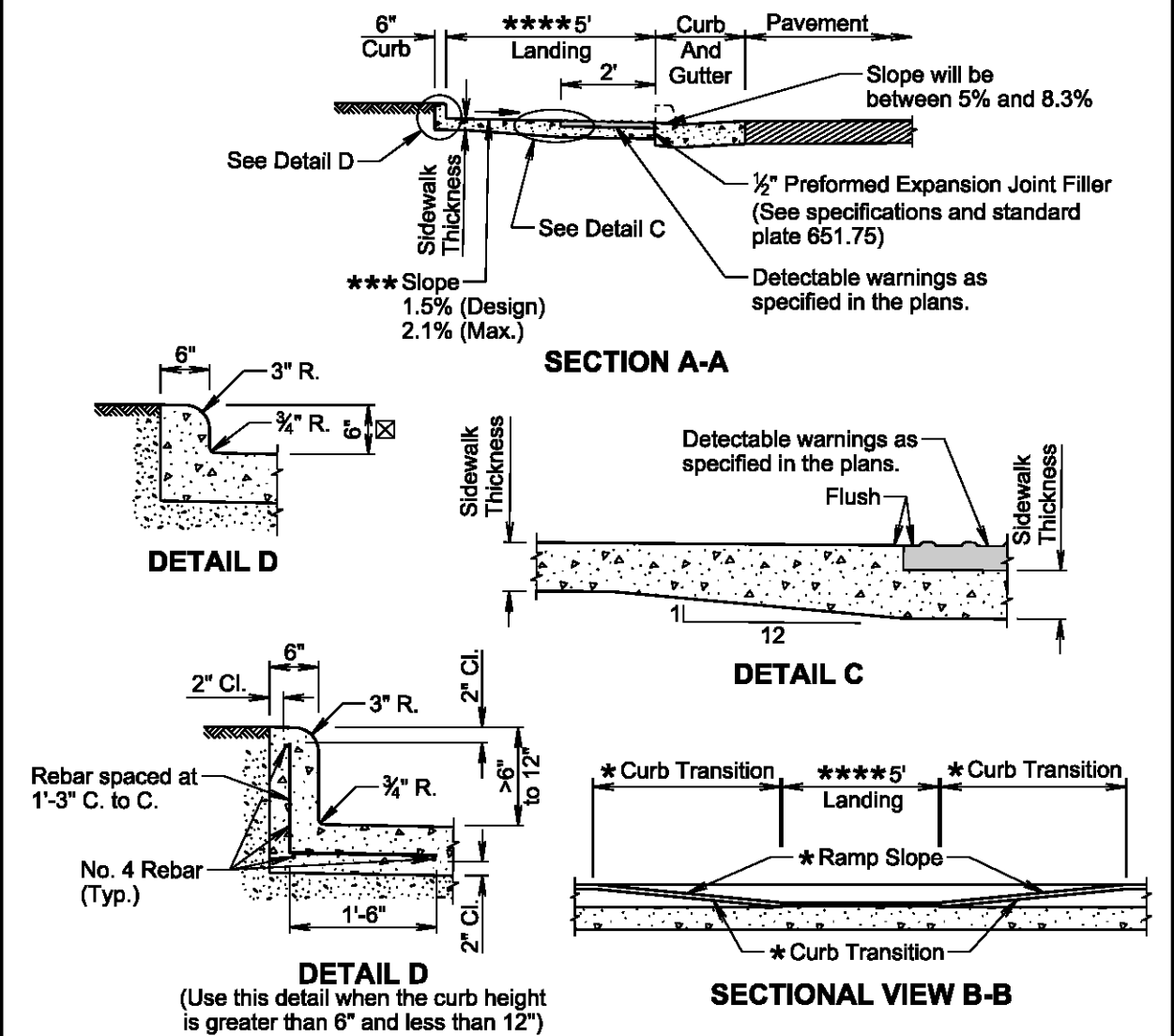
**TYPE 3 CURB RAMP  
(PARALLEL CURB RAMP)**

PLATE NUMBER  
651.03

Sheet 1 of 3



- \* 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.



April 8, 2025

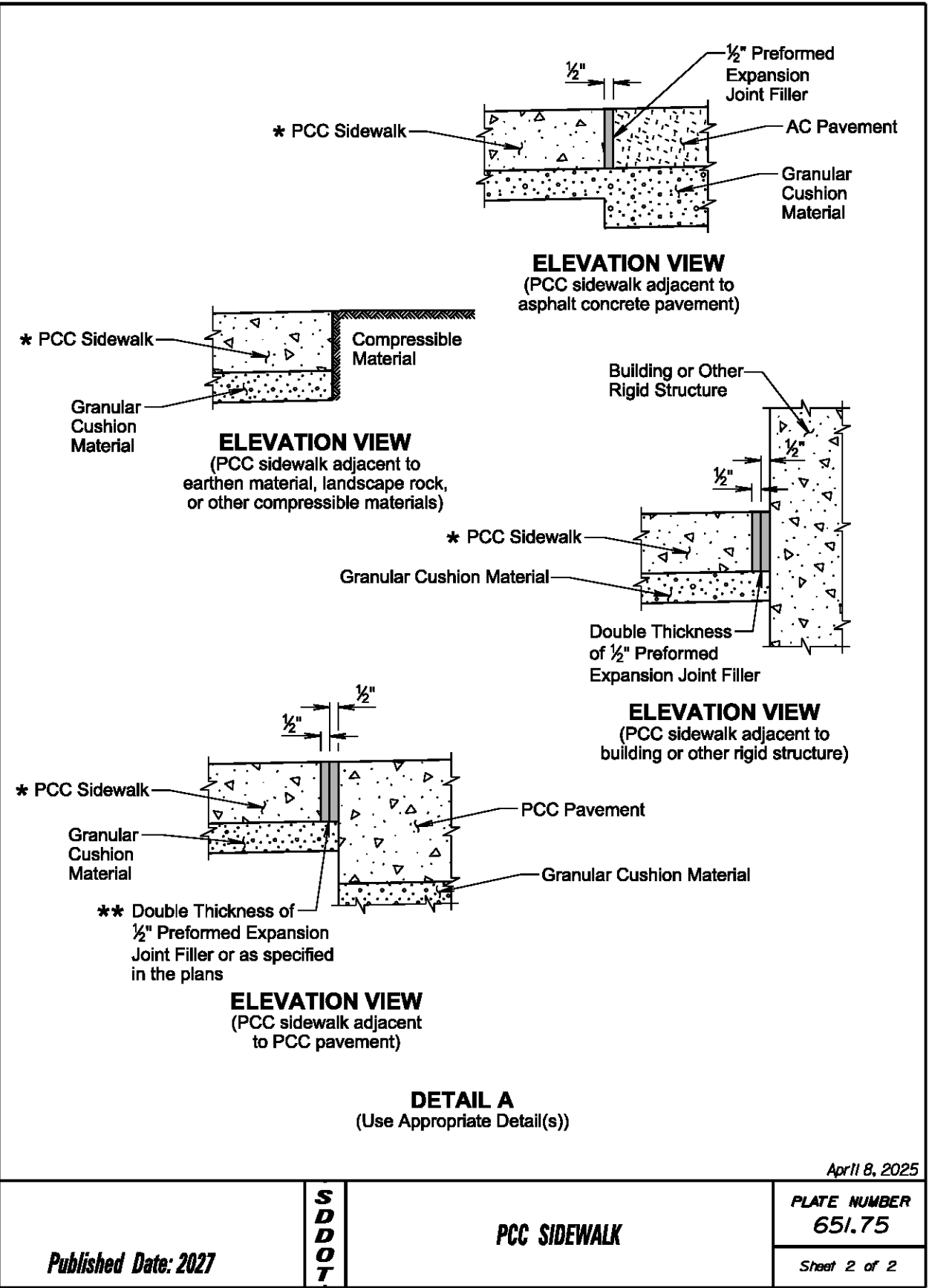
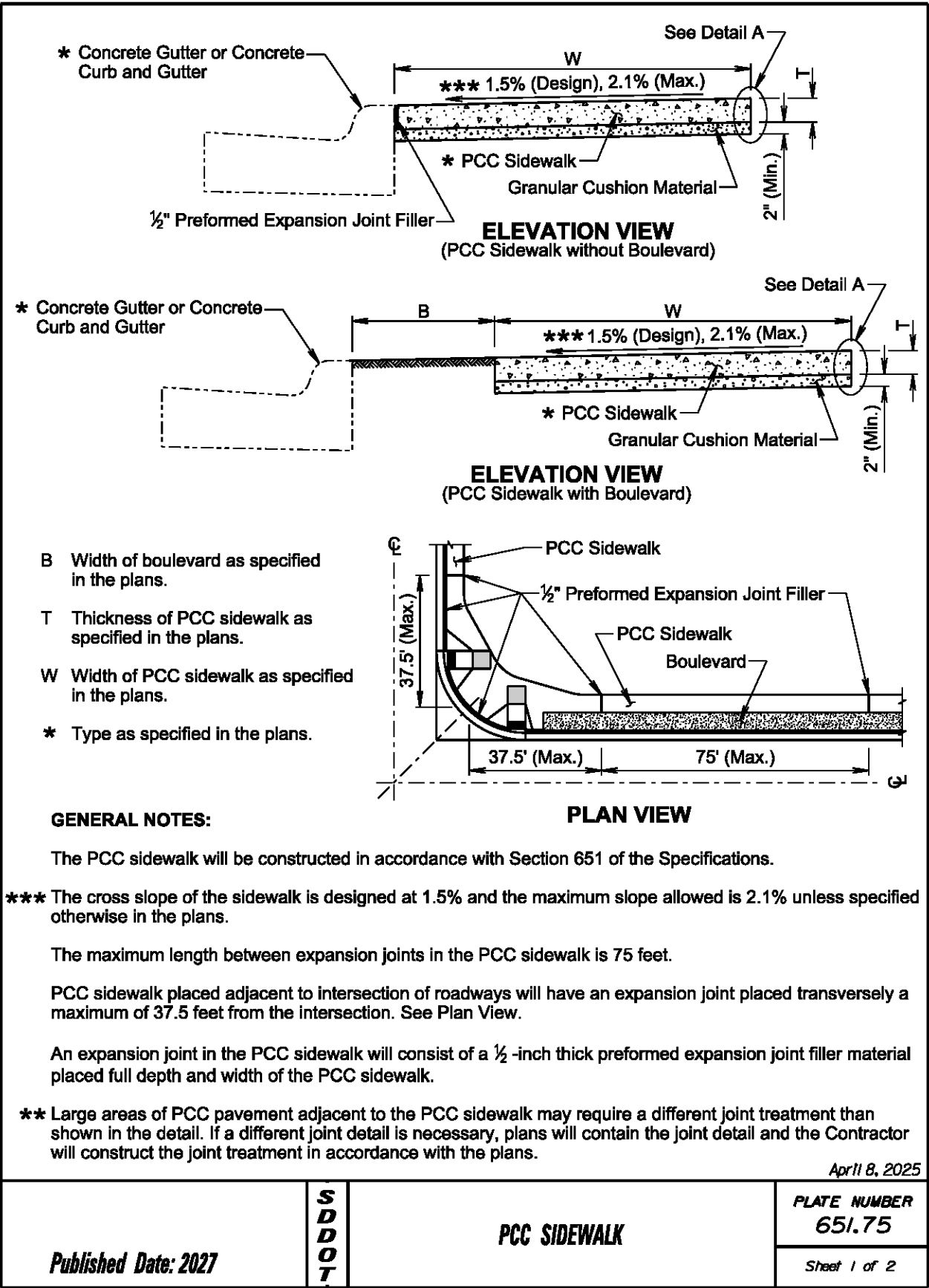
|                      |                       |                                          |              |
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| Published Date: 2027 | S<br>D<br>D<br>O<br>T | TYPE 3 CURB RAMP<br>(PARALLEL CURB RAMP) | PLATE NUMBER |
|                      |                       |                                          | 651.03       |
|                      |                       |                                          | Sheet 2 of 3 |

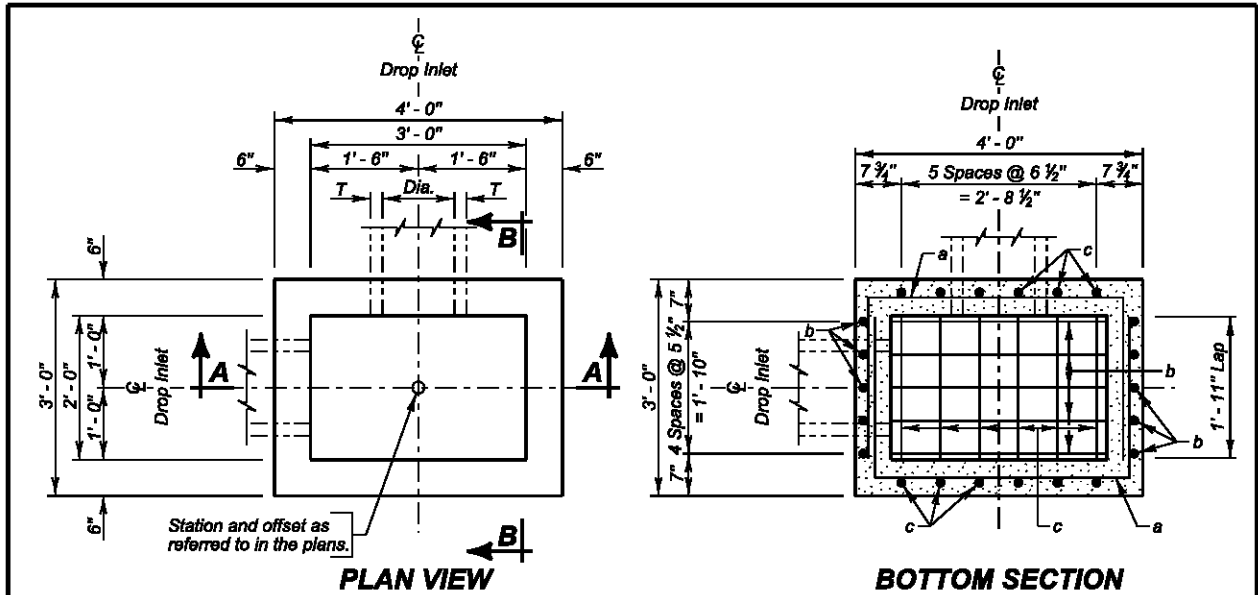
GENERAL NOTES:

- 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".

April 8, 2025

|                      |                       |                                          |              |
|----------------------|-----------------------|------------------------------------------|--------------|
| Published Date: 2027 | S<br>D<br>D<br>O<br>T | TYPE 3 CURB RAMP<br>(PARALLEL CURB RAMP) | PLATE NUMBER |
|                      |                       |                                          | 651.03       |
|                      |                       |                                          | Sheet 3 of 3 |





| ESTIMATED QUANTITIES     |         |                   |                   |
|--------------------------|---------|-------------------|-------------------|
| ITEM                     | UNIT    | CONSTANT QUANTITY | VARIABLE QUANTITY |
| * Class M6 Concrete      | Cu. Yd. | 0.26              | 0.22H             |
| Reinforcing Steel        | Lb.     | 51.19             | 28.97H            |
| Frame and Grate Assembly | Each    | 1                 |                   |

DROP INLETS FOR 12" TO 24" DIAMETER PIPE

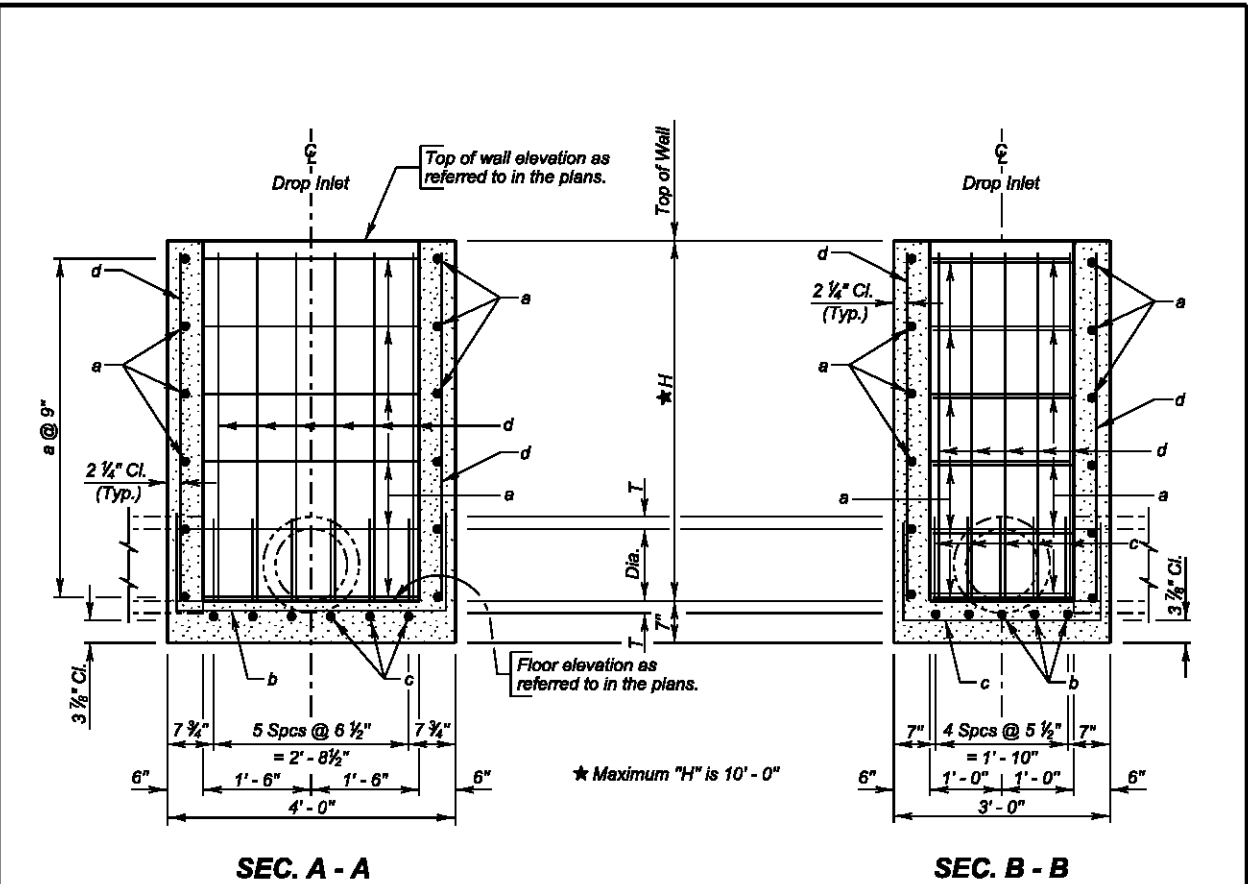
SPECIFICATIONS

Design Specifications: AASHTO LRFD Bridge Design Specifications, 2012 Edition.  
Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, Current Version, Required Provisions, and Special Provisions as included in the Proposal.

GENERAL NOTES:

Design Live Load: HL-93. No construction loading in excess of legal load was considered.  
Reinforcing steel shall conform to ASTM A615 grade 60. The d bars shall be lapped 12 inches with the b and c bars. Cut and bend reinforcing steel as required to place pipe(s) through the drop inlet wall.  
Drop inlet may be precast. If precast drop inlet details differ from this standard plate, submit a checked design done by a SD registered P.E. and shop plans to the Office of Bridge Design for approval.  
\* Reduce total quantities of concrete by the amount of concrete displaced by the pipe(s). The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard. The total quantity of reinforcing steel shall be computed to the nearest pound.  
Drop inlet shown may be modified by the addition or omission of connecting pipes as noted elsewhere in the plans. All pipes entering drop inlet must fit between the inside face of walls and shall not enter through the corners.  
Maximum R.C.P. diameter shall not exceed 18 inches on the 2-foot wide side and shall not exceed 24 inches (24 inches for R.C. arch) on the 3-foot wide side of the drop inlet.  
The dimension of H is in feet. Maximum H is 10 feet.

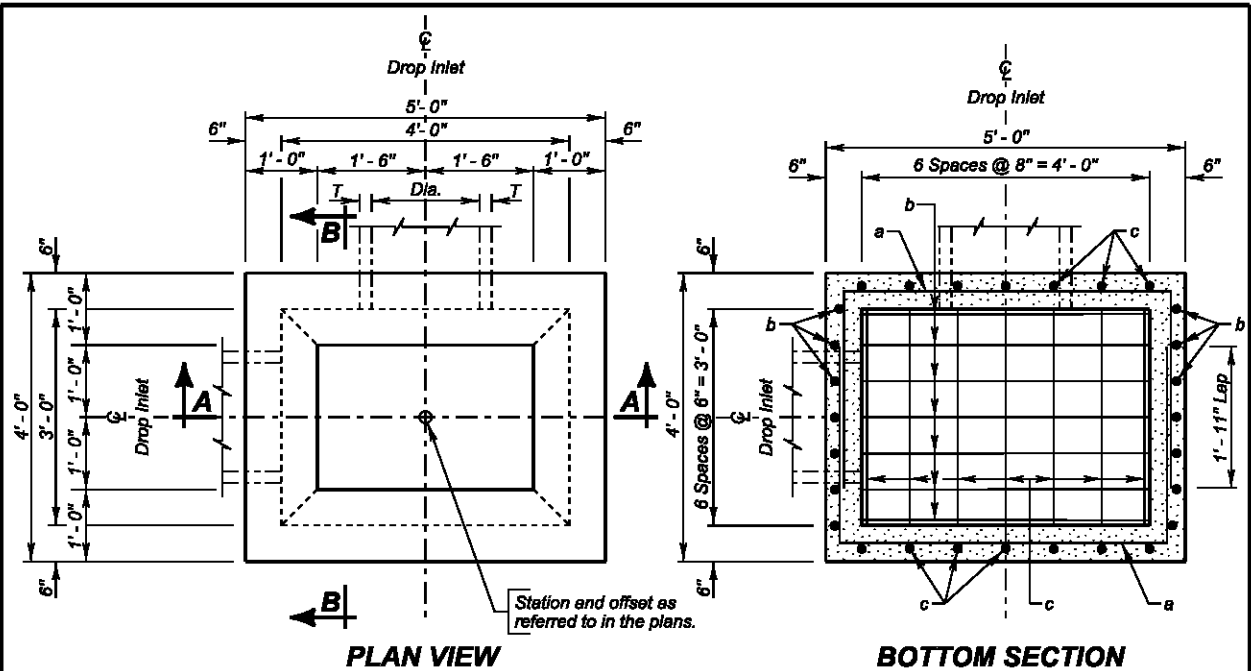
| PIPE DISPLACEMENT REDUCTIONS |                 |                             |  |
|------------------------------|-----------------|-----------------------------|--|
| Diameter (Inches)            | Wall T (Inches) | Class M6 Concrete (Cu. Yd.) |  |
| 12                           | 2               | 0.03                        |  |
| 15                           | 2 1/4           | 0.04                        |  |
| 18                           | 2 1/2           | 0.05                        |  |
| 24                           | 3               | 0.09                        |  |
| 18                           | 2 1/2           | 0.05                        |  |
| 24                           | 3 1/2           | 0.09                        |  |



| REINFORCING SCHEDULE |       |      |        |      |
|----------------------|-------|------|--------|------|
| Mk.                  | No.   | Size | Length | Type |
| a                    | 2.67H | 4    | 8'-0"  | 17   |
| b                    | 5     | 5    | 8'-3"  | 17   |
| c                    | 6     | 4    | 5'-3"  | 17   |
| d                    | 22    | 4    | H - 2" | Str. |

NOTE: All dimensions are out to out of bars.





| ESTIMATED QUANTITIES     |         |                   |                   |
|--------------------------|---------|-------------------|-------------------|
| ITEM                     | UNIT    | CONSTANT QUANTITY | VARIABLE QUANTITY |
| * Class M6 Concrete      | Cu. Yd. | 0.72              | 0.30H             |
| Reinforcing Steel        | Lb.     | 130.93            | 36.54H            |
| Frame and Grate Assembly | Each    | 1                 |                   |

DROP INLETS FOR 12" TO 36" DIAMETER PIPE

SPECIFICATIONS

Design Specifications: AASHTO LRFD Bridge Design Specifications, 2012 Edition.

Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, Current Version, Required Provisions, and Special Provisions as included in the Proposal.

GENERAL NOTES:

Design Live Load: HL-93. No construction loading in excess of legal load was considered.

Reinforcing steel shall conform to ASTM A615 grade 60. The d bars shall be lapped 12 inches with the b and c bars. Cut and bend reinforcing steel as required to place pipe(s) through the drop inlet wall.

Drop inlet may be precast. If precast drop inlet details differ from this standard plate, submit a checked design done by a SD registered P.E. and shop plans to the Office of Bridge Design for approval.

\* Reduce total quantities of concrete by the amount of concrete displaced by the pipe(s). The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard. The total quantity of reinforcing steel shall be computed to the nearest pound.

Drop inlet shown may be modified by the addition or omission of connecting pipes as noted elsewhere in the plans. All pipes entering drop inlet must fit between the inside face of walls and shall not enter through the corners.

Maximum R.C.P. diameter shall not exceed 24 inches (24 inches for R. C. arch) on the 3-foot wide side and shall not exceed 36 inches (30 inches for R.C. arch) on the 4-foot wide side of the drop inlet.

The dimension of H is in feet. Maximum H is 10 feet.

| PIPE DISPLACEMENT REDUCTIONS |                 |                             |  |
|------------------------------|-----------------|-----------------------------|--|
| Diameter (Inches)            | Wall T (Inches) | Class M6 Concrete (Cu. Yd.) |  |
| 12                           | 2               | 0.03                        |  |
| 15                           | 2 1/4           | 0.04                        |  |
| 18                           | 2 1/2           | 0.05                        |  |
| 24                           | 3               | 0.09                        |  |
| 30                           | 3 1/2           | 0.14                        |  |
| 36                           | 4               | 0.20                        |  |
| 18                           | 2 1/2           | 0.05                        |  |
| 24                           | 3 1/2           | 0.09                        |  |
| 30                           | 4               | 0.14                        |  |

April 17, 2026

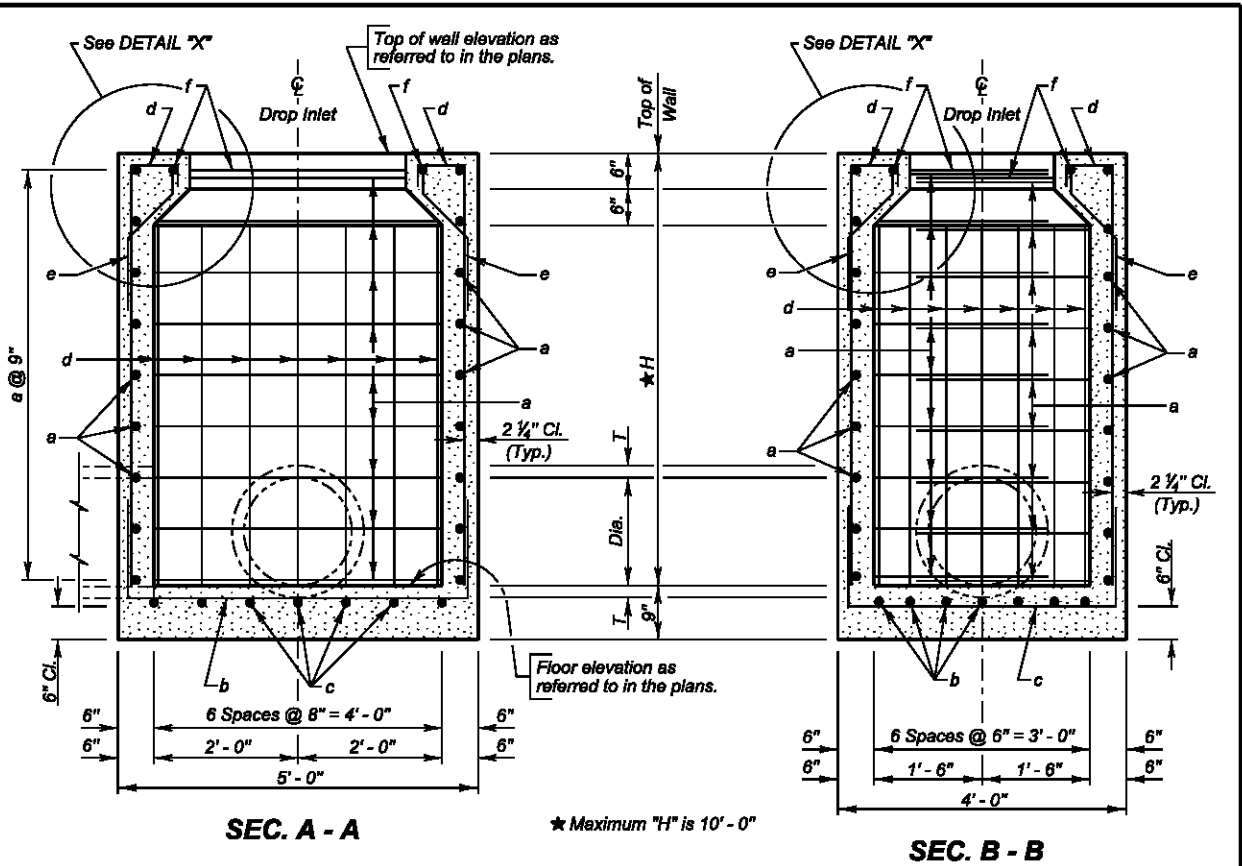
Published Date: 2027

SD  
DOT

3' X 4' TYPE B  
REINFORCED CONCRETE DROP INLET

PLATE NUMBER  
670.02

Sheet 1 of 2



REINFORCING SCHEDULE

| Mk. | No.   | Size | Length   | Type |
|-----|-------|------|----------|------|
| a   | 2.67H | 4    | 10' - 0" | 17   |
| b   | 7     | 4    | 7' - 6"  | 17   |
| c   | 7     | 4    | 6' - 6"  | 17   |
| d   | 28    | 4    | H + 9"   | S17  |
| e   | 28    | 4    | 2' - 3"  | S19  |
| f   | 2     | 4    | 7' - 0"  | 17   |

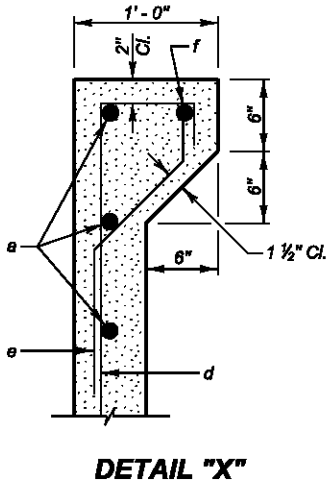
NOTE: All dimensions are out to out of bars.

Bending Details

Type S17

Type S19

Type 17



April 17, 2026

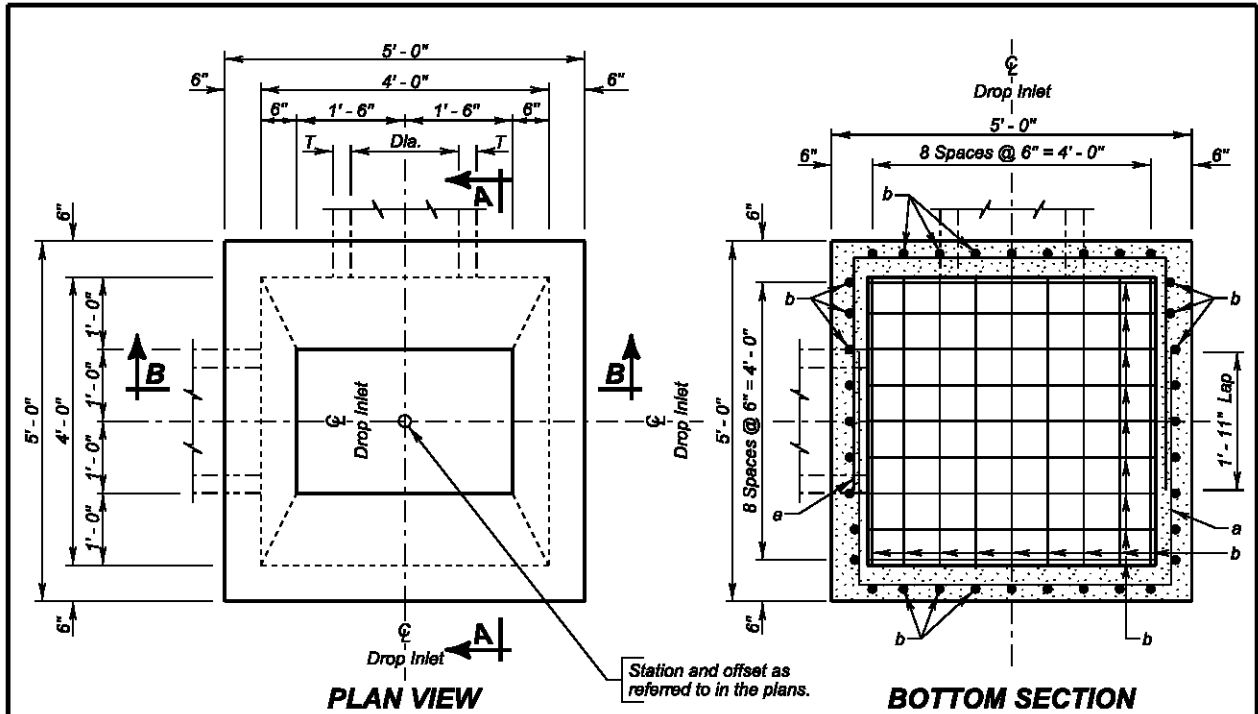
Published Date: 2027

SD  
DOT

3' X 4' TYPE B  
REINFORCED CONCRETE DROP INLET

PLATE NUMBER  
670.02

Sheet 2 of 2



| ESTIMATED QUANTITIES     |         |                   |                   |  |
|--------------------------|---------|-------------------|-------------------|--|
| ITEM                     | UNIT    | CONSTANT QUANTITY | VARIABLE QUANTITY |  |
| Class M6 Concrete        | Cu. Yd. | 0.98              | 0.33H             |  |
| Reinforcing Steel        | Lb.     | 180.69            | 43.67H            |  |
| Frame and Grate Assembly | Each    | 1                 |                   |  |

DROP INLETS FOR 12" TO 36" DIAMETER PIPE

SPECIFICATIONS

Design Specifications: AASHTO LRFD Bridge Design Specifications, 2012 Edition.

Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, Current Version, Required Provisions, and Special Provisions as included in the Proposal.

GENERAL NOTES:

Design Live Load: HL-93. No construction loading in excess of legal load was considered.

Reinforcing steel shall conform to ASTM A615 grade 60. The d bars shall be lapped 12 inches with the b and c bars. Cut and bend reinforcing steel as required to place pipe(s) through the drop inlet wall.

Drop inlet may be precast. If precast drop inlet details differ from this standard plate, submit a checked design done by a SD registered P.E. and shop plans to the Office of Bridge Design for approval.

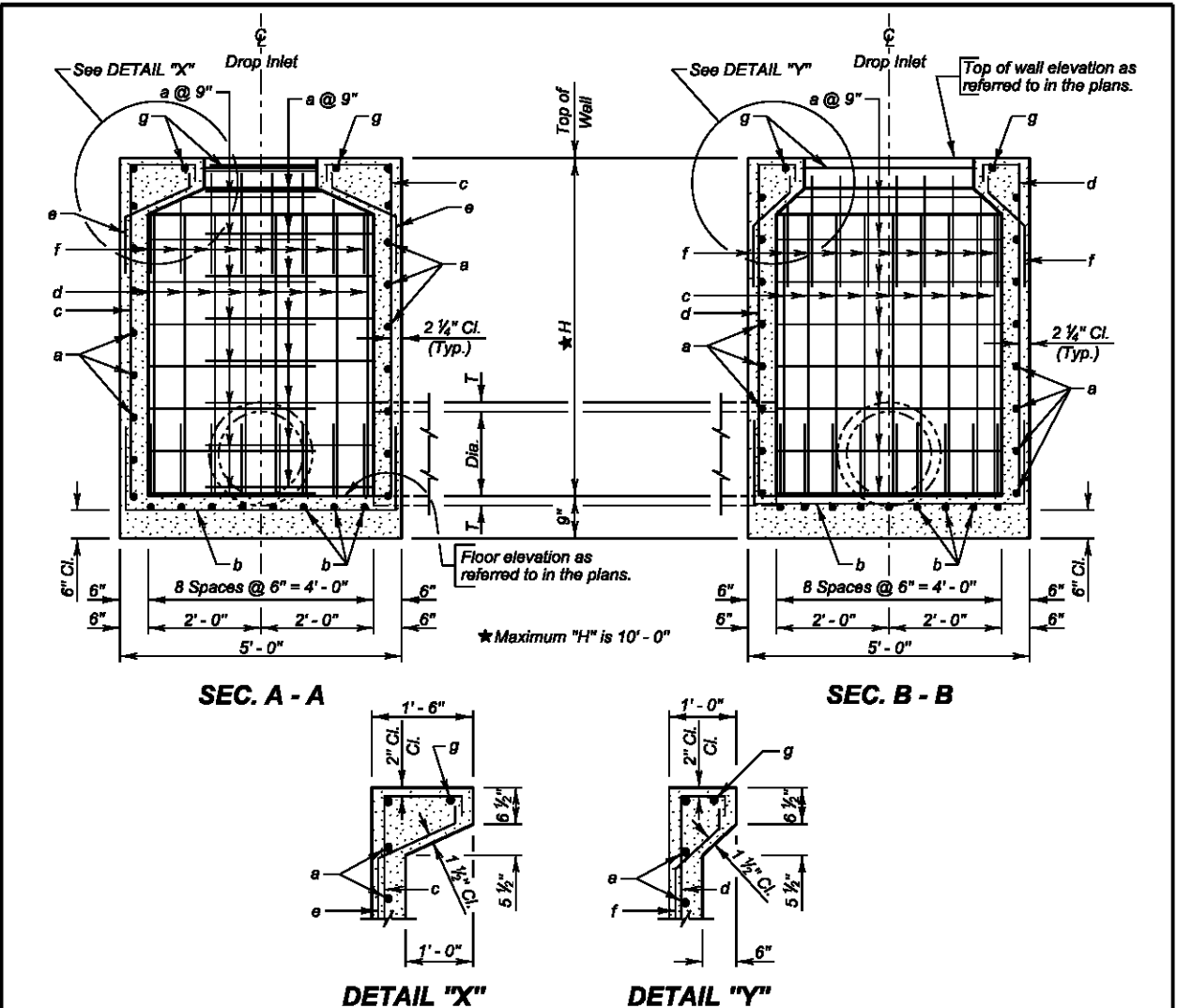
\* Reduce total quantities of concrete by the amount of concrete displaced by the pipe(s). The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard. The total quantity of reinforcing steel shall be computed to the nearest pound.

Drop inlet shown may be modified by the addition or omission of connecting pipes as noted elsewhere in the plans. All pipes entering drop inlet must fit between the inside face of walls and shall not enter through the corners.

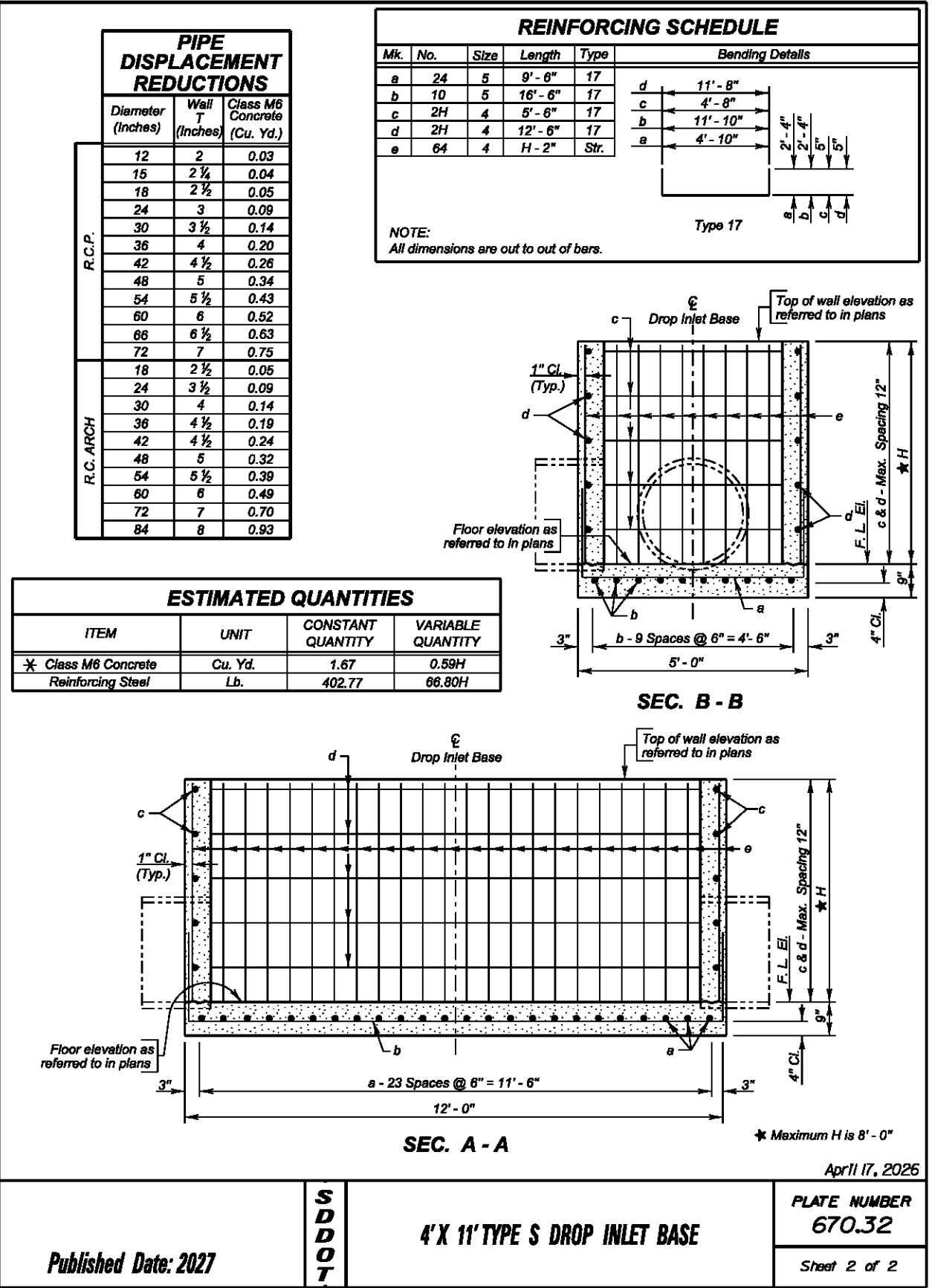
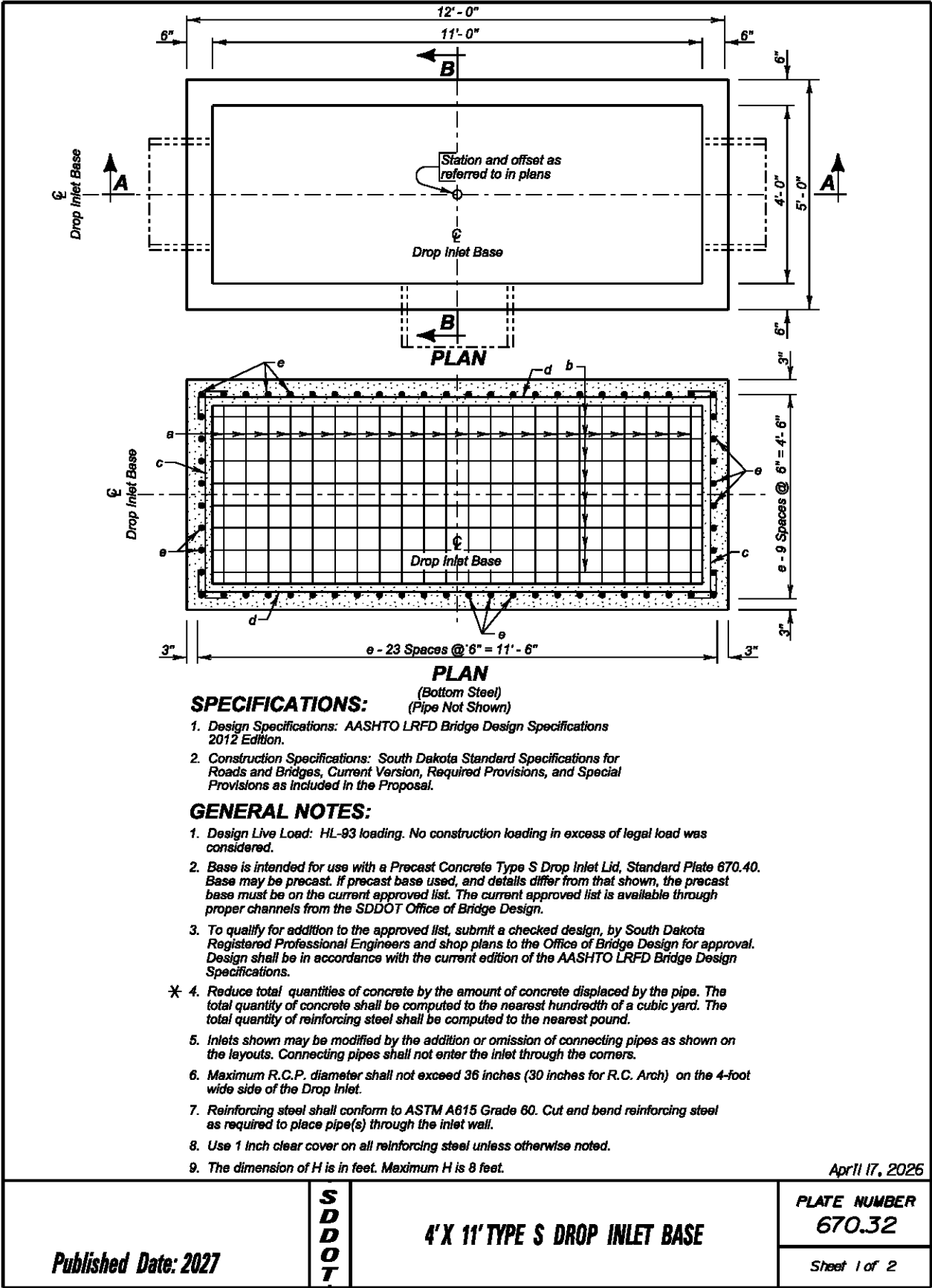
Maximum R.C.P. diameter shall not exceed 36 inches (30 inches for R. C. arch) on the 4-foot wide side of the drop inlet.

The dimension of H is in feet. Maximum H is 10 feet.

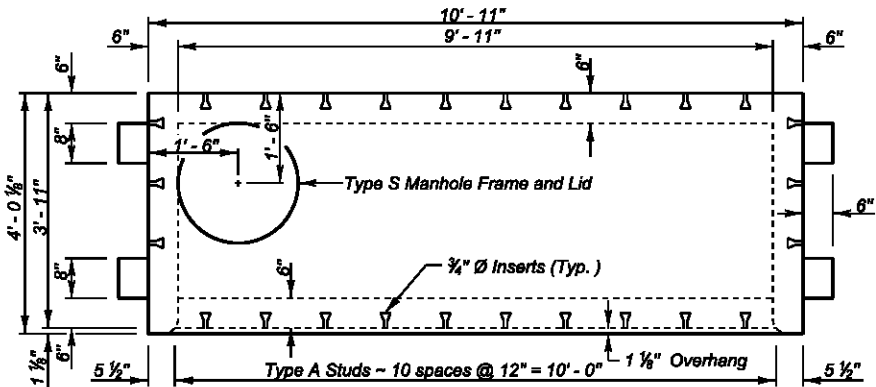
| PIPE DISPLACEMENT REDUCTIONS |                 |                             |           |  |
|------------------------------|-----------------|-----------------------------|-----------|--|
| Diameter (Inches)            | Wall T (Inches) | Class M6 Concrete (Cu. Yd.) |           |  |
| 12                           | 2               | 0.03                        | R.C.P.    |  |
| 15                           | 2 1/4           | 0.04                        |           |  |
| 18                           | 2 1/2           | 0.05                        |           |  |
| 24                           | 3               | 0.09                        |           |  |
| 30                           | 3 1/2           | 0.14                        |           |  |
| 36                           | 4               | 0.20                        | R.C. ARCH |  |
| 18                           | 2 1/2           | 0.05                        |           |  |
| 24                           | 3 1/2           | 0.09                        |           |  |
| 30                           | 4               | 0.14                        |           |  |



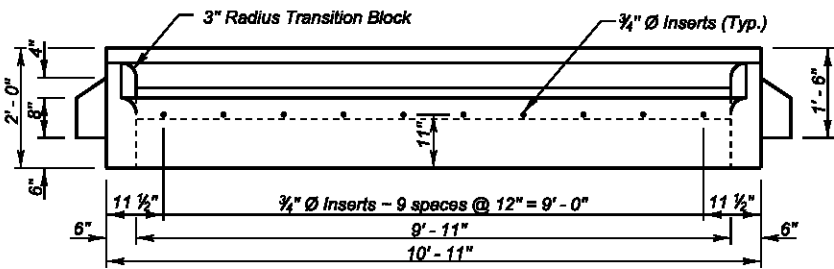
| REINFORCING SCHEDULE                         |       |      |         |      |                 |
|----------------------------------------------|-------|------|---------|------|-----------------|
| Mk.                                          | No.   | Size | Length  | Type | Bending Details |
| a                                            | 2.67H | 4    | 11'-0"  | 17   |                 |
| b                                            | 18    | 4    | 7'-6"   | 17   |                 |
| c                                            | 18    | 4    | H + 15" | S17  |                 |
| d                                            | 18    | 4    | H + 9"  | S17  |                 |
| e                                            | 18    | 4    | 2'-6"   | S19  |                 |
| f                                            | 18    | 4    | 2'-3"   | S19  |                 |
| g                                            | 2     | 4    | 7'-0"   | 17   |                 |
| NOTE: All dimensions are out to out of bars. |       |      |         |      |                 |



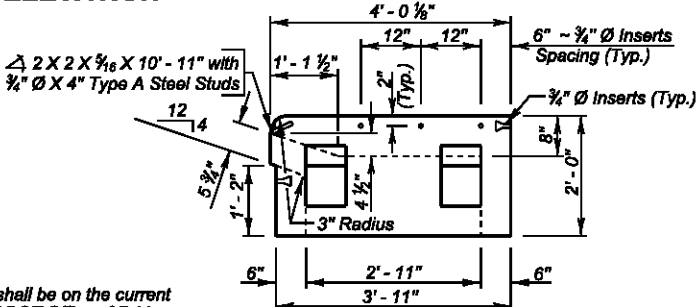




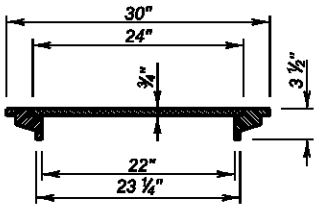
PLAN



ELEVATION



SIDE VIEW  
(With Sidewalk Inserts)



TYPICAL SECTION THROUGH  
TYPE S MANHOLE  
FRAME AND LID  
(Weight 140 Lbs.)

GENERAL NOTES:

1. The Precast Concrete Type S Drop Inlet Lid and the shims shall be on the current approved list available through proper channels from the SDDOT Office of Bridge Design. To qualify for addition to the approved list, submit a checked design, done by South Dakota Registered Professional Engineers, and shop plans to the Office of Bridge Design for approval. Design shall be in accordance with the current edition of the AASHTO LRFD Bridge Design Specifications.
2. Design Live Load shall be HL - 93.
3. Concrete mix shall be as per fabricators design, however, minimum compressive strength shall not be less than 4500 psi. Type II Cement is required.
4. The Type S Manhole Frame and Lid shall conform to AASHTO M105, Class 30.
5. Structural Steel shall conform to ASTM A36. The 3/4 inch diameter Headed Type A Steel Studs shall conform to Section 7 of the current edition of AWS D1. 1 Structural Steel Welding Code.
6. The 3/4 inch diameter Concrete Inserts shall be galvanized or made of a corrosion resistant material. Provide 3/4 inch diameter x 1' - 6" long dowels conforming to ASTM A615, Gr. 60 threaded to fit inserts with each lid.
7. All costs associated with furnishing and installing the Precast Concrete Type S Drop Inlet Lid including the type S manhole frame and lid, shims, inserts, and dowels shall be included in the contract unit price per each for " 4' x 11' Precast Concrete Type S Drop Inlet Lid ".

December 23, 2012

Published Date: 2027

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O  
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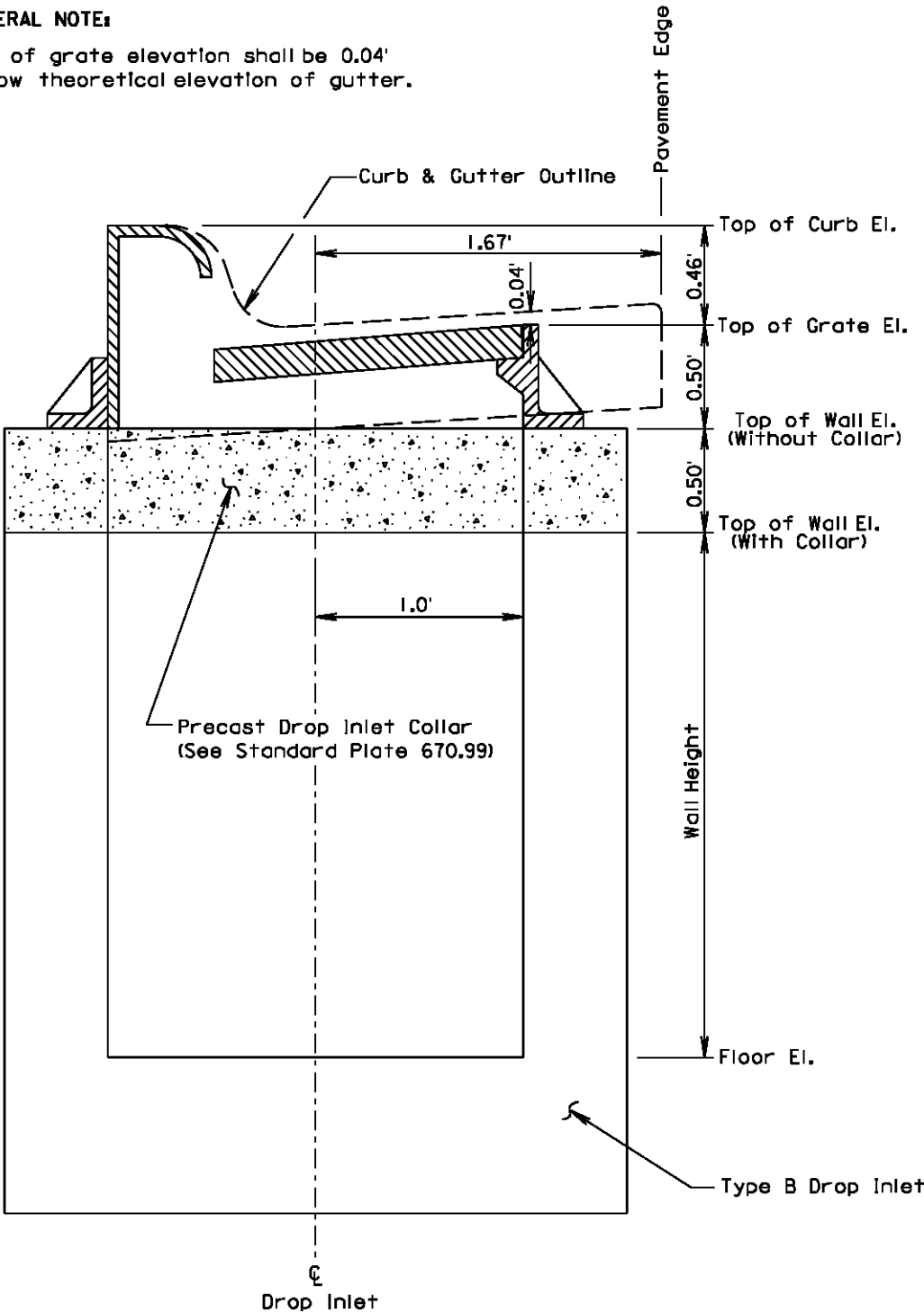
4' X 11' PRECAST CONCRETE  
TYPE S DROP INLET LID

PLATE NUMBER  
670.40

Sheet 1 of 1

GENERAL NOTE:

Top of grate elevation shall be 0.04'  
below theoretical elevation of gutter.



June 26, 2011

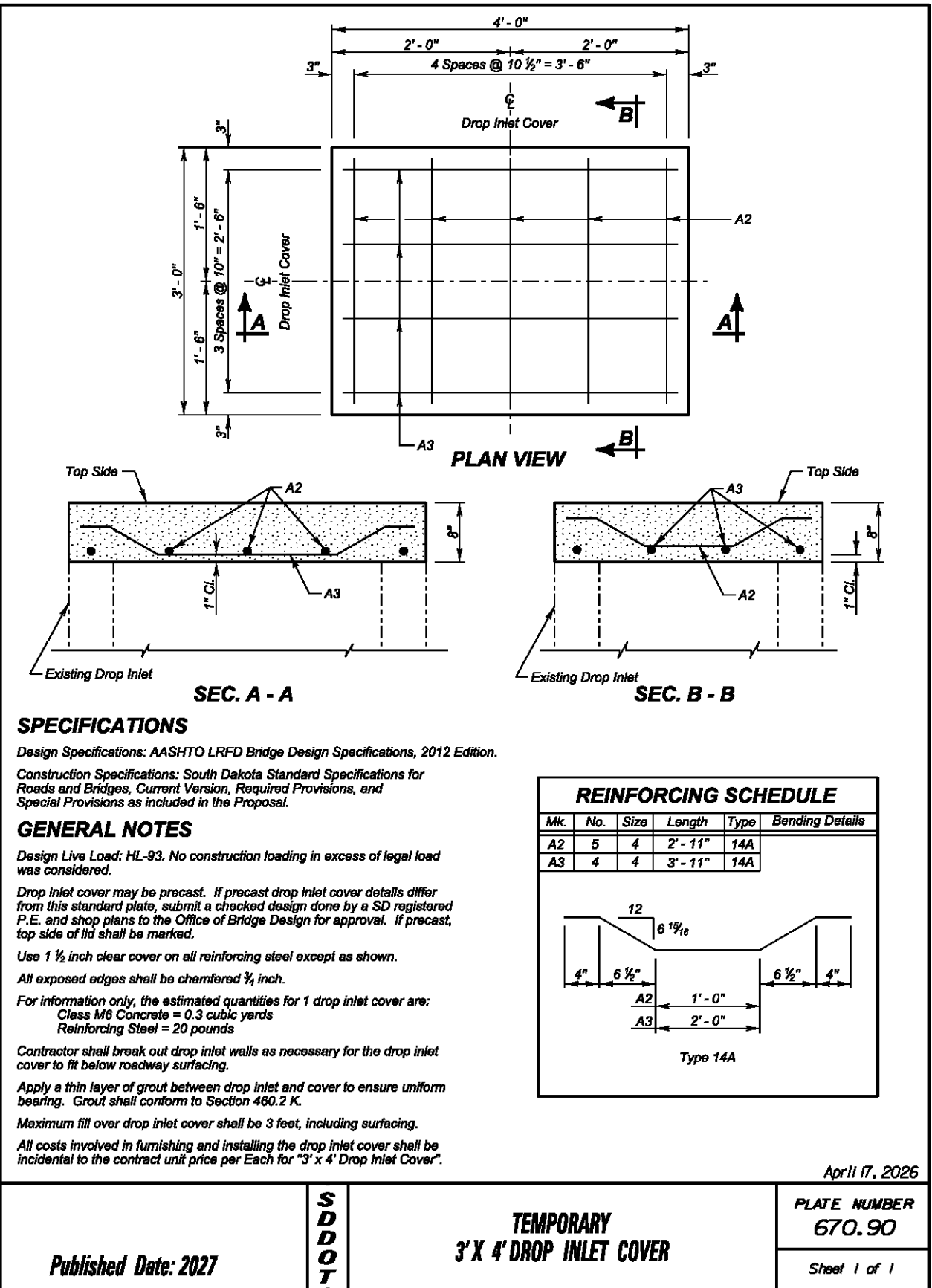
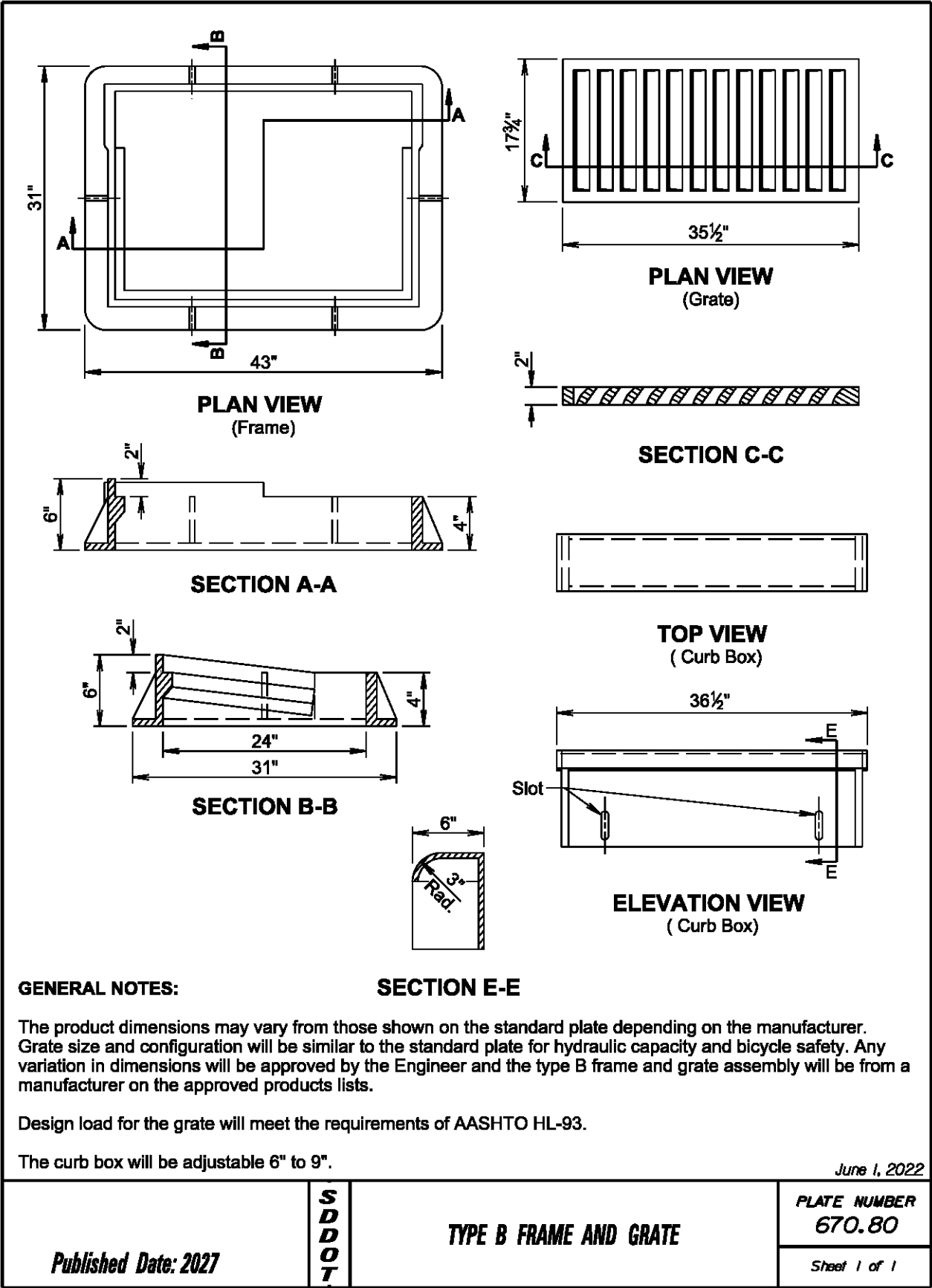
Published Date: 2027

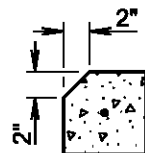
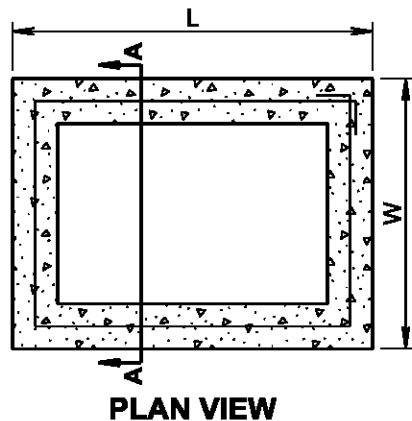
S  
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D  
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T

INSTALLATION OF TYPE B DROP INLET

PLATE NUMBER  
670.75

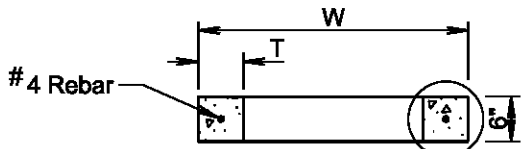
Sheet 1 of 1





For Type D Drop Inlets only:  
Use Precast Drop Inlet Collar with  
2" chamfer on L sides only.

DETAIL B



SECTION A-A

See Detail B  
(For Type D  
Drop Inlets Only)

| INFORMATIONAL QUANTITIES |           |           |        |                          |                        |
|--------------------------|-----------|-----------|--------|--------------------------|------------------------|
| FRAME AND GRATE TYPE     | L (Ft-in) | W (Ft-in) | T (in) | CLASS M6 CONCRETE (CuYd) | REINFORCING STEEL (Lb) |
| TYPE A, B, and E         | 4'-0"     | 3'-0"     | 6      | 0.11                     | 9                      |
| TYPE C                   | 5'-0"     | 4'-0"     | 6      | 0.15                     | 11                     |
| TYPE D                   | 4'-0"     | 2'-6"     | 6      | 0.10                     | 8                      |

GENERAL NOTES:

All reinforcing steel will conform to ASTM A615, Grade 60.

The 1/2" diameter bar will lap 6"± and will be centered in the concrete.

The cost of furnishing and installing Precast Drop Inlet Collars, including labor, materials, and incidentals will be incidental to the contract unit price per Each for "Precast Drop Inlet Collar".

June 1, 2022

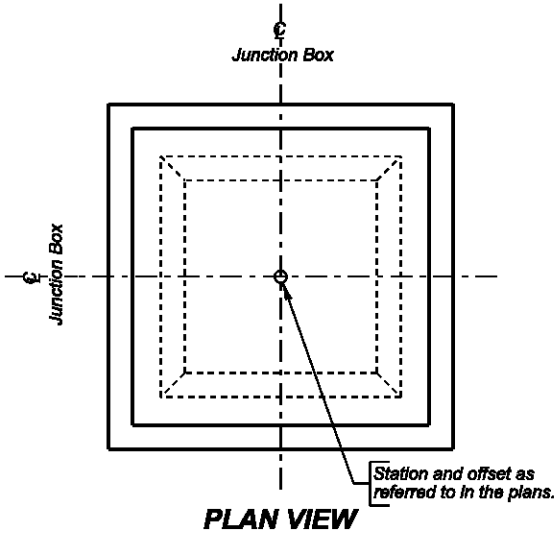
Published Date: 2027

SD  
DOT

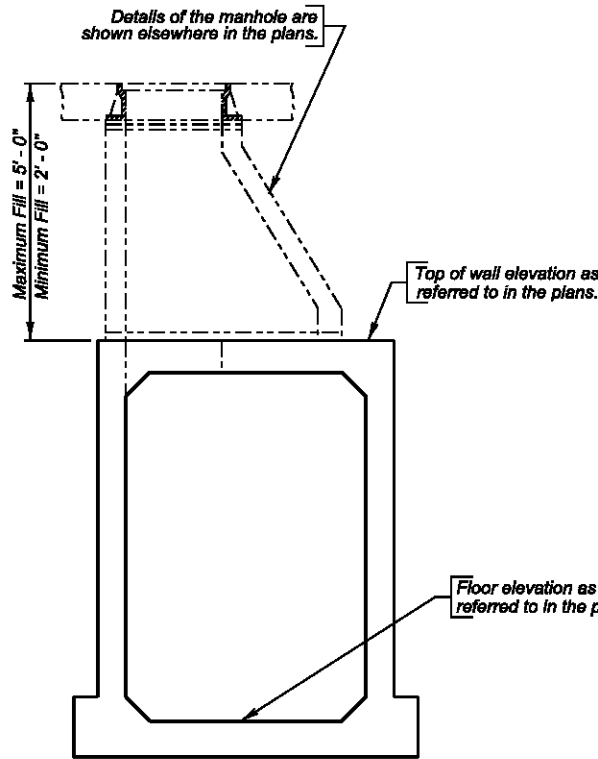
PRECAST DROP INLET COLLAR

PLATE NUMBER  
670.99

Sheet 1 of 1



PLAN VIEW



ELEVATION VIEW

SPECIFICATIONS

Design Specifications: AASHTO LRFD Bridge Design Specifications, 2012 Edition.

Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, Current Version, Required Provisions, and Special Provisions as included in the Proposal.

GENERAL NOTES

Design Live Load: HL-93. No construction loading in excess of legal load was considered.

The design of the junction box is based on a maximum fill over the junction box of 5 feet and minimum fill over the junction box of 2 feet.

Reinforcing steel shall conform to ASTM A615 Grade 60. Cut and bend reinforcing steel as required to place pipe(s) through junction box wall.

Junction box may be precast. If precast junction box details differ from this standard plate, submit a checked design done by a SD registered P.E. and shop plans to the Office of Bridge Design for approval.

Use 1 inch clear cover on all reinforcing steel unless otherwise noted.

All exposed edges shall be chamfered 3/4 inch.

Junction box shown may be modified by the addition or omission of connecting pipes as noted elsewhere in the plans. All pipes entering junction box must fit between the inside face of walls and shall not enter through the corners.

Maximum R.C.P. diameter connecting to the junction box will not exceed 48 inches (36 inches for R.C. arch).

The cost of furnishing and installing the manhole steps shall be incidental to the contract unit price per pound for "Reinforcing Steel".

| PIPE DISPLACEMENT REDUCTIONS |                   |                 |                             |
|------------------------------|-------------------|-----------------|-----------------------------|
|                              | Diameter (Inches) | Wall T (Inches) | Class M6 Concrete (Cu. Yd.) |
|                              |                   |                 |                             |
| R.C.P.                       | 12                | 2               | 0.03                        |
|                              | 15                | 2 1/4           | 0.04                        |
|                              | 18                | 2 1/2           | 0.06                        |
|                              | 24                | 3               | 0.11                        |
|                              | 30                | 3 1/2           | 0.16                        |
|                              | 36                | 4               | 0.23                        |
|                              | 42                | 4 1/2           | 0.31                        |
| R.C. ARCH                    | 48                | 5               | 0.40                        |
|                              | 18                | 2 1/2           | 0.06                        |
|                              | 24                | 3 1/2           | 0.11                        |
|                              | 30                | 4               | 0.16                        |
|                              | 36                | 4 1/2           | 0.22                        |

| ESTIMATED QUANTITIES |                     |                   |
|----------------------|---------------------|-------------------|
| ITEM                 | * Class M6 Concrete | Reinforcing Steel |
| UNIT                 | Cu. Yd.             | Lb.               |
| H = 4' - 0"          | 4.37                | 821               |
| H = 4' - 6"          | 4.61                | 846               |
| H = 5' - 0"          | 4.85                | 908               |
| H = 5' - 6"          | 5.10                | 933               |
| H = 6' - 0"          | 5.34                | 958               |
| H = 6' - 6"          | 5.58                | 1020              |
| H = 7' - 0"          | 5.82                | 1045              |
| H = 7' - 6"          | 6.06                | 1071              |
| H = 8' - 0"          | 6.30                | 1132              |

\* Reduce total quantities of concrete by the amount of concrete displaced by the pipe(s). Quantity shown includes reduction for a 24-inch diameter manhole opening. The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard.

April 17, 2026

Published Date: 2027

SD  
DOT

5' X 5'  
JUNCTION BOX

PLATE NUMBER  
671.01

Sheet 1 of 3



