| BAI JOB # 24020.15 | STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| | | BRO-B 8040(20) | 1 | 22 |

FOR BIDDING PURPOSES ONLY

Plotting Date: 04/16/2026

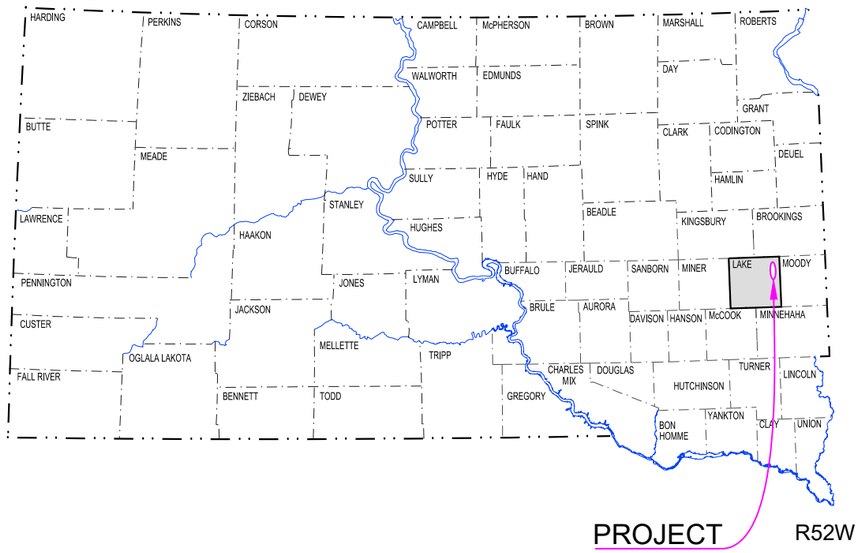
STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

# PROJECT BRO-B 8040(20)
# LAKE COUNTY

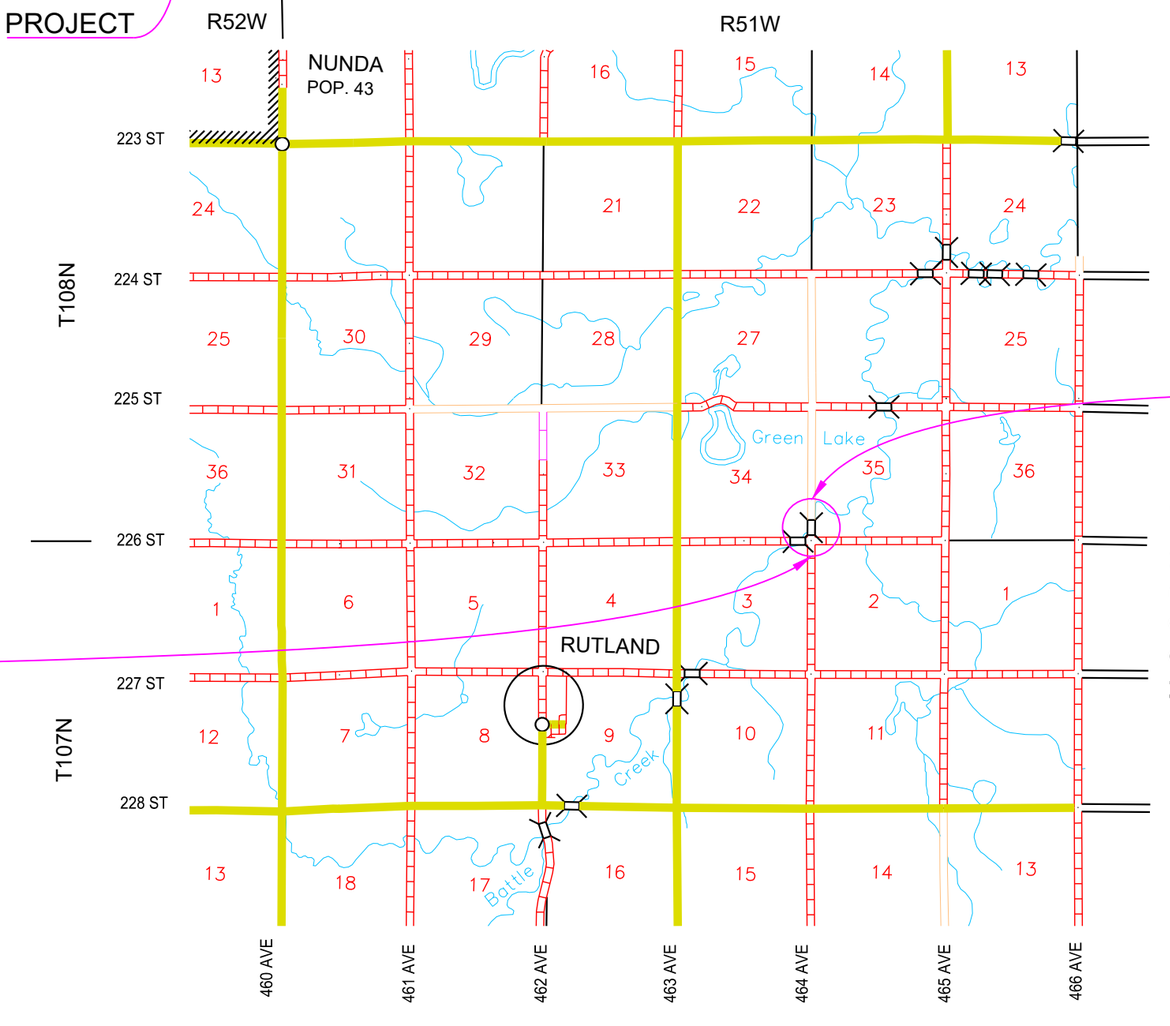
STRUCTURE REMOVAL
STRUCTURE NO. 40-220-058
PCN 09M2

## INDEX OF SHEETS






PROJECT




N

STORM WATER PERMIT

| | |
|---|---|
| Major Receiving Body of Water: | Battle Creek |
| Total Project Area: | 0.1 Acres |
| Area Disturbed: | 0.1 Acres |
| Approx. Begin Lat/Long: | 44.110597° N |
| | -96.928733° W |

REGISTERED PROFESSIONAL ENGINEER
REG NO. 9061
LUCAS A. JOHNSON
SOUTH DAKOTA
Lucas A Johnson
4-16-26

BEGIN BRO-B 8040(20)
Located 350' north of the SE corner
Section 34 - Township 108 North - Range 51 West

END BRO-B 8040(20)
Located 450' north of the SE corner
Section 34 - Township 108 North - Range 51 West



June 17, 2026

FOR BIDDING PURPOSES ONLY

| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|
| | BRO-B 8040(20) | 2 | 22 |

Revised: 4/27/2026 LAJ

## ESTIMATE OF QUANTITIES

### GRADING

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|---|---|---|---|
| 009E0010 | Mobilization | Lump Sum | LS |
| 009E4100 | Construction Schedule, Category I | Lump Sum | LS |
| 100E0100 | Clearing | Lump Sum | LS |
| 120E0010 | Unclassified Excavation | 220 | CuYd |
| 230E0010 | Placing Topsoil | 26 | CuYd |
| 632E1320 | 2.0"x2.0" Perforated Tube Post | 102.0 | Ft |
| 632E2535 | Type 4 Object Marker | 8 | Each |
| 632E3205 | Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity | 32.6 | SqFt |
| 632E4005 | Type 3 Single Sided Barricade | 32.0 | Ft |
| 634E0110 | Traffic Control Signs | 141.0 | SqFt |
| 634E0120 | Traffic Control, Miscellaneous | Lump Sum | LS |
| 634E0275 | Type 3 Barricade | 12 | Each |
| 734E0010 | Erosion Control | Lump Sum | LS |
| 734E0102 | Type 2 Erosion Control Blanket | 232 | SqYd |
| 734E0154 | 12" Diameter Erosion Control Wattle | 200 | Ft |

### STR. NO. 40-220-058

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|---|---|---|---|
| 250E0030 | Incidental Work, Structure | Lump Sum | LS |

REGISTERED PROFESSIONAL ENGINEER
REG NO. 9061
LUCAS A. JOHNSON
SOUTH DAKOTA
Lucas A Johnson
4-27-26

## ENVIRONMENTAL COMMITMENTS

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

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/doing-business/environmental/about-environmental/>

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

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

### COMMITMENT A: AQUATIC RESOURCES

### COMMITMENT A1: WETLANDS

All efforts to avoid and minimize wetland impacts from the project have resulted in approximately 0.029 acres of wetlands (includes temporary and permanent) becoming impacted.

**Table of Impacted Wetlands**

| Wetland No. | Station | Permanent Impact (Acres) | Temporary Impact (Acres) | Total Impact (Acres) |
|---|---|---|---|---|
| 1 | 0+00 to 0+95 | 0.00 | 0.029 | 0.029 |

**Action Taken/Required:**

Temporary impacts identified in the Table of Impacted Wetlands will not be mitigated as original contours and elevations will be re-established as designated in the plans. Prior to initiating temporary work in wetlands, the Contractor will submit a plan to the Project Engineer in accordance with Section 7.18 of the Specifications.

The Contractor will notify the Project Engineer if additional easement is needed to complete work adjacent to any wetland. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any wetlands beyond the work limits and easements shown in the plans.

### COMMITMENT A2: STREAMS

All efforts to avoid and minimize stream impacts from the project have resulted in approximately 0.040 acres of stream (includes temporary and permanent) becoming impacted. Refer to the plans.

**Table of Impacted Streams**

| Stream Name | Station | Permanent Impact (Acres) | Temporary Impact (Acres) | Total Impact (Acres) |
|---|---|---|---|---|
| Battle Creek | 0+00 to 0+95 | 0.00 | 0.035 | 0.035 |

**Action Taken/Required:**

It has been determined that project impacts do not require mitigation. Temporary impacts identified in the Table of Impacted Streams will not be mitigated as the finished ground under the bridge will be shaped to match the upstream channel and flood plain and the existing low water channel will be maintained as near as practical to the existing location as designated in the plans.

### COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

### COMMITMENT B5: NORTHERN LONG-EARED AND TRI-COLORED BAT

This project is within the range of suitable habitat for the Northern Long-Eared Bat (NLEB) and/ or the Tri-Colored Bat (TCB) and project work will avoid conflicts with NLEB and/or TCB roosting habitat.

**Action Taken/Required:**

Ensure all operators, employees, and contractors are aware the project occurs adjacent to NLEB or TCB suitable habitat and tree trimming/clearing is limited to that designated in the plans.

If bats are observed roosting on trees or infrastructure within the project area prior to and/or during construction, the contractor will halt all on-site activities. The contractor will notify the Project Engineer and the Environmental Office (605-773- 3309 or 605-773-5679) of the observed bat presence.

**COMMITMENT B6: MIGRATORY BIRDS WORK RESTRICTION**

Migratory birds may use structures for nesting, which primarily occurs from April 1st-August 31st.

**Action Taken/Required:**

All Swallows are state and federally protected under the Migratory Bird Treaty Act of 1918. It is illegal for any person to take, possess, transport, sell, or purchase them or their parts, such as feathers, nests, or eggs, without a permit. Active nests with eggs or chicks inside may not be touched or destroyed without a permit from the U.S. Fish and Wildlife Service (USFWS). Inactive (empty) nests do not require a permit to destroy. Nest or bird removal applications must be justified with strong, compelling reasons such as a health or safety hazard towards humans and/or birds or damage to property.

Construction activities should not occur in the locations listed in the table below during the migratory bird work restriction without prior approval from the SDDOT Environmental Office to avoid conflicts with nesting migratory birds.

**Table of Migratory Bird Restrictions**

| Station | Migratory Bird Restrictions |
|---|---|
| 0+00 to 95+00 | April 1- August 31 |

If necessary, you may do the following to prevent birds from nesting:

Before birds arrive:
Remove old nests and any traces of mud. Since old nests can be reused, remove any potential nests before the birds arrive from winter migration.

Place physical barriers on potential nesting sites to prevent birds from nesting. You may use products such as coroplast, polytetrafluoroethylene (Teflon), Bird Slide™, plexiglass, plastic sheeting, or silicon-based paint coated to the surface. Physical barriers may be a permanent deterrent in preventing birds from nesting in nuisance locations.

After birds arrive:
Remove mud nests frequently, in between nest construction. They may eventually give up on that site if they are not successful in building a nest. You may only destroy nests that do not have eggs or chicks within.

Play sounds of alarm and distress calls of cliff and barn swallows to disrupt nest construction.

If project activities cannot be conducted outside of the seasonal restriction the Contractor will notify the Project Engineer and the Environmental Office Biologist (605-773-3309) to coordinate with the USFWS.

**COMMITMENT C: WATER SOURCE**

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

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

The Contractor will not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

**Action Taken/Required:**

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

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

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

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

**COMMITMENT D: WATER QUALITY STANDARDS**

**COMMITMENT D1: SURFACE WATER QUALITY**

Battle Creek is classified as warmwater, marginal fishery with a total suspended solids standard of less than 150 mg/L 30-day average, less than 263 mg/L daily maximum.

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

**Action Taken/Required:**

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

**COMMITMENT D2: SURFACE WATER DISCHARGE**

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

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

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

**Action Taken/Required:**

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

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

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

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

**COMMITMENT E: STORM WATER**

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

**Action Taken/Required:**

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

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

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

The form can be found at:
<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAppendixCCA2023Fillable.pdf >

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

**Storm Water Pollution Prevention Plan**

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

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

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

Information on storm water permits and SWPPPs are available on the following websites:
SDDOT: < https://dot.sd.gov/doing-business/environmental/stormwater >

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

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

**COMMITMENT H: WASTE DISPOSAL SITE**

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

**Action Taken/Required:**

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

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

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

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

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

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

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

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

**COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES**

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

**Action Taken/Required:**

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

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

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

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

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

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

**COMMITMENT J: CONSTRUCTION PRACTICES FOR TEMPORARY WORKS IN WATERWAYS OF THE U.S.**

The Contractor is advised that special construction measures must be taken to ensure that the waterways of the U.S. are not impacted.

**Action Taken/Required:**

Excavation will not occur below the ordinary high-water elevation in waterways outside of caissons, cribs, cofferdams, steel piling, or sheeting. The natural streambed will not be disturbed unless specified by the plans and under the observation of the Project Engineer. Refer to the Table of U.S. Waterways to Protect for ordinary high-water elevations. Any structure work over or within the waterway will be constructed according to Section 7.18 C of the Specifications.

All dredged or excavated materials will be placed at a site above the ordinary high-water elevation in a confined area (not classified as a wetland) that is a minimum of 50 feet away from concentrated flows of storm water, drainage courses, and inlets to prevent return of such material to the waterway.

The construction of temporary work platforms, crossings, or berms below the ordinary high-water elevation will be allowed if all material placed below the ordinary high-water elevation consists of Class B or larger riprap.

All temporary caissons, cribs, cofferdams, steel piling, sheeting, work platforms, crossings, and berms will be removed with minimal disturbance to the streambed. Proper construction practices will be used to minimize increases in suspended solids and turbidity in the waterway.

Bridge berms, wing dams, traffic diversions, channel reconstruction, stream diversions, grading, etc. will be constructed in close conformity with the plans to ensure that the hydraulic capacity of the waterway is not changed.

Temporary waterway crossings required for the Contractor's construction operations will be constructed with an adequate drainage structure size and minimum fill height to reduce the potential for upstream flooding. The Contractor will be responsible for sizing the temporary drainage structure for these crossings.

All temporary works in waterways of the US are required to be covered in the Corp of Engineers 404 Permit. At the time of the preconstruction meeting, the Contractor will submit documentation for all temporary works for the purpose of complying with the 404 Permit requirements in accordance with Section 423.3 A of the Specifications.

**Table of U.S. Waterways to Protect**

| Station | Waterway | Ordinary High-Water Elevation |
|---|---|---|
| 0+45 | Battle Creek | 1612.5 |

Stream channel excavation within "Waters of the US" is subject to USACE regulatory jurisdiction. Stream channel excavation cannot exceed the permitted quantities and/or surface area. The 404 Permit is included in the Special Provisions.

The Contractor will take all precautions necessary to prevent any incidental discharges associated with the excavation and hauling of material from the stream channel. This pertains to any excavation operations such as, foundation, pier, or abutment excavation, channel cleanout, excavation for riprap protection, and removal of any temporary fill associated with construction activities.

**COMMITMENT N: SECTION 404 PERMIT**

The SDDOT has obtained a Section 404 Permit from the USACE for the permanent actions associated with this project.

**Action Taken/Required:**

The Contractor will comply with all requirements contained in the Section 404 Permit.

The Contractor will also be responsible for obtaining a Section 404 Permit for any dredge, excavation, or fill activities associated with material sources, storage areas, waste sites, and Contractor work sites outside the plan work limits that affect wetlands, floodplains, or waters of the United States.

## COUNTY REQUIREMENTS

The County will perform the following items:

1. Assist in the coordination of utility adjustments, if necessary.
2. Remove existing bridge end marker signs, delineators, weight limit signs, and road signs.
3. Furnish and install all temporary and permanent fencing.

## INCIDENTAL WORK, STRUCTURE

In place from station 0+21.1 to 0+46.6 is a 3 - 10' x 7' Reinforced Concrete Box Culvert. The Contractor will remove the existing structure to 1' below the bottom of the stream channel.

Before preparing a bid, it is the responsibility of the Contractor to make a visual inspection of the structure to verify the extent of the work involved.

All costs for labor, equipment, and materials in performing the foregoing work will be incidental to the contract lump sum price for "Incidental Work, Structure".

## EXISTING UTILITIES

Utilities within the limits of the proposed construction are to be adjusted by the utility owner unless otherwise indicated on these plans.

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

The Contractor will be aware that there were no utilities located by One Call or surveyed prior to the design of this project. A new utility may have been placed 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.

## GENERAL MAINTENANCE OF TRAFFIC

This project will be closed to thru-traffic and the roadway barricaded. Local access to entrances must be maintained.

Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the County.

## STREAM DIVERSION

Any stream diversion will be considered temporary works in accordance with Section 423.

## CLEARING

The removal and disposal of trees will be in accordance with Section 100 of the Standard Specifications.

At a minimum, all trees, stumps, and shrubs within the work limits, right-of-way, and permanent easements will be removed and disposed of.

Any tree removal and disposal needed for the temporary stream diversion will be incidental to the contract lump sum price for "Clearing".

Before preparing a bid it is the responsibility of the Contractor to make a visual inspection of the site to verify the extent of the work involved.

## UNCLASSIFIED EXCAVATION

The plans quantity for "Unclassified Excavation" as shown in the Estimate of Quantities will be the basis for payment for this item unless the Engineer orders a change.

| Station to | Station | Excavation General (CuYd) | Salvage Topsoil (CuYd) | Total Excavation (CuYd) | * Waste (CuYd) |
|---|---|---|---|---|---|
| 0+10 | 0+80 | 194 | 26 | 220 | 194 |

* The quantity for this item is for information only.

## TABLE OF UNCLASSIFIED EXCAVATION

| | | | |
|---|---|---|---|
| Excavation General | | 194 | |
| Topsoil | + | 26 | |
| **Total Unclassified Excavation** | **=** | **220** | **CuYd** |

The Excavation General quantity includes excavation along the channel banks to shape to conform to the existing upstream and downstream banks.

Excavation of the channel banks will be as shown on the Cross Section sheets.

All excavation waste material will be disposed of by the Contractor at a site approved by the Engineer. The removal and disposal of the waste material will be incidental to the contract unit price per cubic yard for "Unclassified Excavation."

## PLACING TOPSOIL

Existing vegetation will be salvaged, incorporated, and placed with the topsoil as far as practical.

The areas to receive topsoil comprise of all newly graded areas, within the project limits, exclusive of top of roadway and channel bottom area.

The plans quantity for "Placing Topsoil" as shown in the Estimate of Quantities will be the basis for payment for this item unless the Engineer orders a change.

The amount of topsoil shown in the Estimate of Quantities is based upon a 4 inch depth within the right of way limits.

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

| Station | to | Station | | Topsoil (CuYd) |
|---|---|---|---|---|
| 0+08 L | | 0+85 L | | 13 |
| 0+09 R | | 0+86 R | | 13 |
| | | | Total: | 26 |

REGISTERED PROFESSIONAL ENGINEER
REG NO.
9061
LUCAS A.
JOHNSON
SOUTH DAKOTA
Lucas A Johnson
4-16-26

## EROSION CONTROL

All areas of soil disturbed by construction will require erosion control except areas where agricultural crops have been and will be planted. For informational purposes only, the estimated area requiring erosion control is **0.2 acres**. All costs for the erosion control work for furnishing, placing, and maintaining erosion control including equipment, labor, seeding and mulching will be incidental to the contract lump sum price for "Erosion Control".

Type G Permanent Seed Mixture will consist of the following:

| Grass Species | Variety | Pure Live Seed (PLS) (Pounds/Acre) |
|---|---|---|
| Western Wheatgrass | Arriba, Flintlock, Rodan, Rosana, Walsh | 7 |
| Switchgrass | Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer | 3 |
| Indiangrass | Holt, Tomahawk, Chief, Nebraska 54 | 3 |
| Big Bluestem | Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza | 3 |
| Oats or Spring Wheat: April through May; Winter Wheat: August through November | | 10 |
| | Total: | 26 |

Seeding will be installed by drilling in accordance with Section 730.

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

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

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

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

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

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

## EROSION CONTROL BLANKET

Erosion control blanket will be installed at the locations noted in the table and as shown on the *Erosion and Sediment Control Plan.* Refer to Standard Plate 734.01 for details.

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

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

### TABLE OF EROSION CONTROL BLANKET

| Location | Type | Quantity (SqYd) |
|---|---|---|
| South Bank | 2 | 104 |
| North Bank | 2 | 128 |
| | Total Type 2 Erosion Control Blanket: | 232 |

## EROSION CONTROL WATTLE

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

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

Erosion control wattles will remain on the project to decompose.

An additional quantity of 12" Diameter Erosion Control Wattles has been added to the Estimate of Quantities for temporary erosion and sediment control during construction.

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

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

### TABLE OF EROSION CONTROL WATTLE

| Location | | Diameter (inch) | Quantity (Ft) |
|---|---|---|---|
| As directed by Engineer | Additional Quantity: | 12 | 200 |
| | | Total: | 200 |

REGISTERED PROFESSIONAL ENGINEER
REG NO. 9061
LUCAS A. JOHNSON
SOUTH DAKOTA
4-16-26

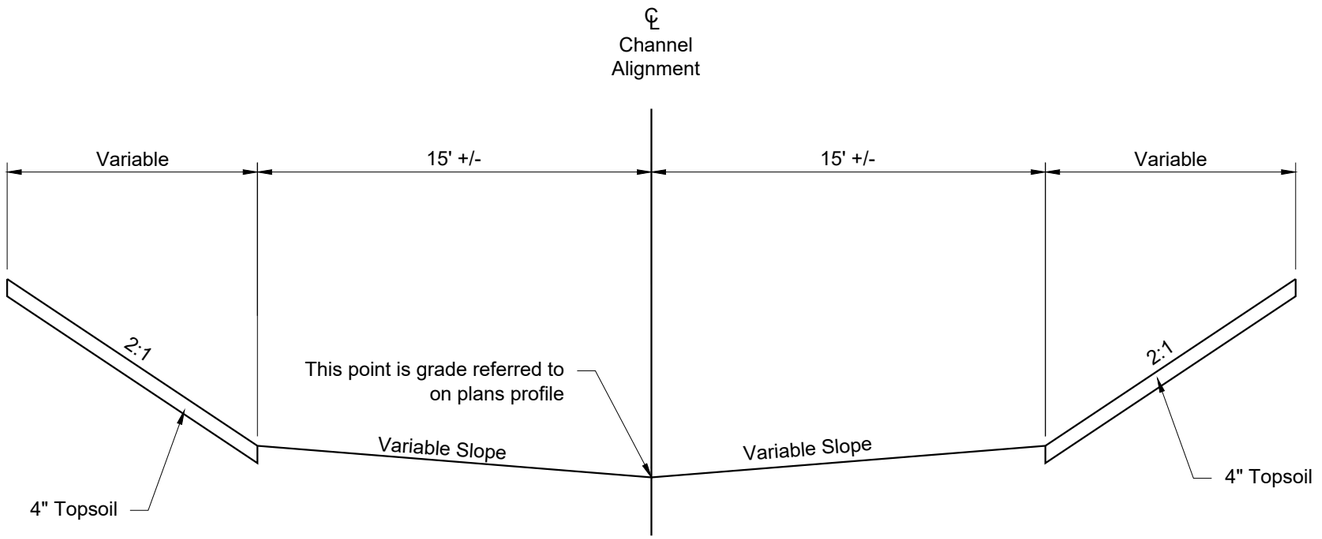
# TYPICAL GRADING SECTION

FOR BIDDING PURPOSES ONLY

| BAI JOB # 24020.15 | STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| | | BRO-B 8040(20) | 8 | 22 |

Plotting Date: 04/16/2026

0+10 to 0+80




REGISTERED PROFESSIONAL ENGINEER
REG NO.
9061
LUCAS A.
JOHNSON
SOUTH DAKOTA
Lucas A Johnson
4-16-26

| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|
| | BRO-B 8040(20) | 9 | 22 |

FOR BIDDING PURPOSES ONLY

# HORIZONTAL ALIGNMENT DATA

## MAINLINE
### (CREEK)

| Type | Station | | | Northing | Easting |
|---|---|---|---|---|---|
| POB | 0+00.00 | | | 666104.104 | 2862322.663 |
| | | TL= 63.23 | N 88°11'10" E | | |
| PC | 0+55.67 | | | 666105.867 | 2862378.309 |
| PI | 0+63.23 | R= 20.00 | Delta = 41°23'09" R | 666106.106 | 2862385.860 |
| PT | 0+70.12 | | | 666101.293 | 2862391.683 |
| | | TL = 32.11 | S 50°25’42” E | | |
| POE | 0+94.67 | | | 666085.652 | 2862410.609 |

## CONTROL DATA

| HORIZONTAL AND VERTICAL CONTROL POINTS | | | | | | |
|---|---|---|---|---|---|---|
| POINT | STATION | OFFSET | DESCRIPTION | NORTHING | EASTING | ELEVATION |
| SEC 9500 | - | - | 1” Pipe | 665694.912 | 2862368.656 | 1619.98 |
| PCOR 9505 | - | - | Rebar w/ Cap | 665729.307 | 2862400.562 | 1616.93 |
| SEC 9501 | - | - | Rebar w/ Cap | 668340.843 | 2862284.814 | 1624.03 |
| PCOR 9502 | - | - | Rebar w/ Cap | 668341.888 | 2862317.853 | 1624.95 |

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Lucas A Johnson
4-16-26

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. South Zone (4002) NAD 83(2011); epoch 2010.00; SF = 0.9998702989

The elevations shown on this sheet are based on NAVD 88 (GEOID 18).

# LEGEND

FOR BIDDING PURPOSES ONLY

| BAI JOB # 24020.15 | STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| | | BRO-B 8040(20) | 10 | 22 |

Plotting Date: 04/16/2026

- 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 — OH —
- Parking Meter
- Pedestrian Push Button Pole
- Pipe With End Section
- Pipe With Headwall
- Pipe Without End Section
- Playground Slide
- Playground Swing
- Power And Light Pole
- Power And Telephone Pole
- Power Meter
- Power Pole
- Power Pole And Transformer
- Power Tower Structure
- Propane Tank
- Property Pipe
- Property Pipe With Cap
- Property Stone
- Public Telephone
- Railroad Crossing Signal
- Railroad Milepost Marker
- Railroad Profile
- Railroad ROW Marker
- Railroad Signs
- Railroad Switch
- Railroad Track
- Railroad Trestle
- Rebar
- Rebar With Cap
- Reference Mark
- Retaining Wall
- Riprap
- River Edge
- Rock And Wire Baskets
- Rockpiles
- Satellite Dish
- Septic Tank
- Shrub Tree
- Sidewalk
- Sign Face
- Sign Post
- Slough Or Marsh
- Spring
- Stream Gauge
- Street Marker
- Subsurface Utility Exploration Test Hole
- Telephone Fiber Optics — T/F —
- Telephone Junction Box
- Telephone Pole
- Television Cable Jct Box
- Television Tower
- Test Wells/Bore Holes
- Traffic 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 — P —
- Underground Gas Line — G —
- Underground High Pressure Gas Line — HG —
- Underground Sanitary Sewer — S —
- Underground Storm Sewer — S —
- Underground Tank
- Underground Telephone Line — T —
- Underground Television Cable — TV —
- Underground Water Line — W —
- Water Fountain
- Water Hydrant
- Water Meter
- Water Tower
- Water Valve
- Water Well
- Weir Rock
- Windmill
- Wingwall
- Witness Corner

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

- Drainage Arrow

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

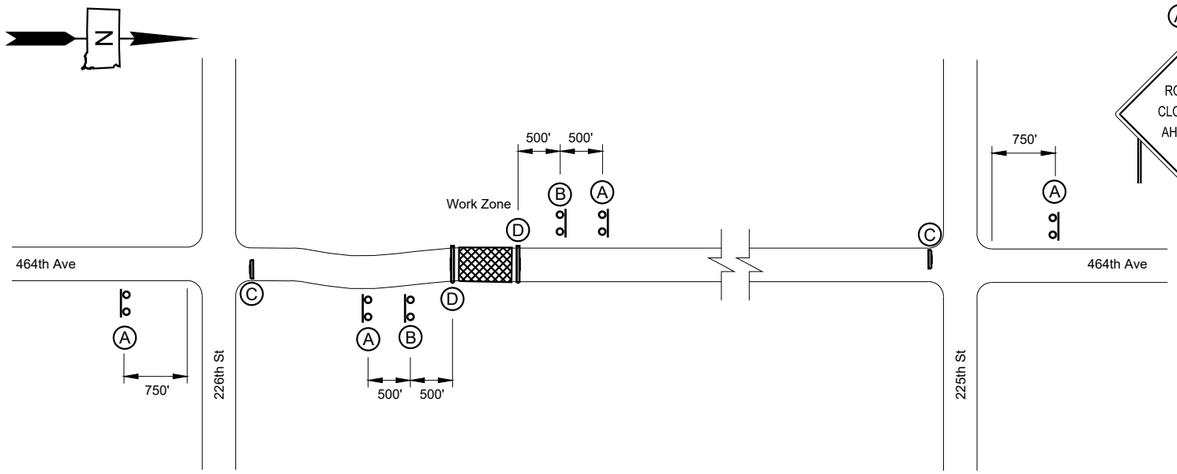
- Detectable Warning Pedestrian Push Button Pole and 30" x 48" Clear Space with 1.5% slope

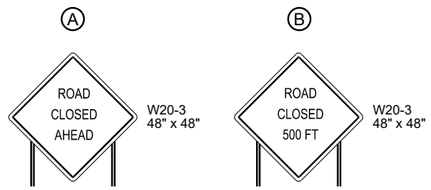
# TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

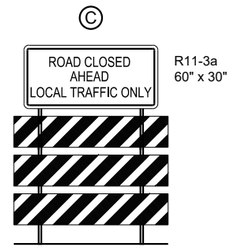
| BAI JOB # 24020.15 | STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| | | BRO-B 8040(20) | 11 | 22 |

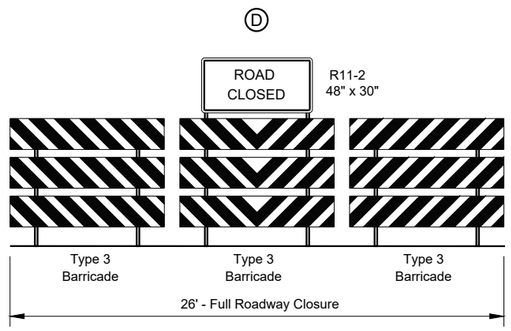
Plotting Date: 04/16/2026




FIXED LOCATION SIGNING




## ITEMIZED LIST FOR TRAFFIC CONTROL

| SIGN CODE | DESCRIPTION | NUMBER REQUIRED | SIGN SIZE | SQ. FT. PER SIGN | SQ. FT. |
|---|---|---|---|---|---|
| R11-2 | ROAD CLOSED | 2 | 48" x 30" | 10.0 | 20.0 |
| R11-3a | ROAD CLOSED LOCAL TRAFFIC ONLY | 2 | 60" x 30" | 12.5 | 25.0 |
| W20-3 | ROAD CLOSED AHEAD OR 500 FT | 6 | 48" x 48" | 16.0 | 96.0 |
| | | Conventional Road Traffic Control Signs Sq. Ft. | | | 141.0 |

| DESCRIPTION | Each |
|---|---|
| Type 3 Barricade | 8 |

NOTE:
The exact location and spacing of signs shown will be determined in the field by the Engineer.

REGISTERED PROFESSIONAL ENGINEER
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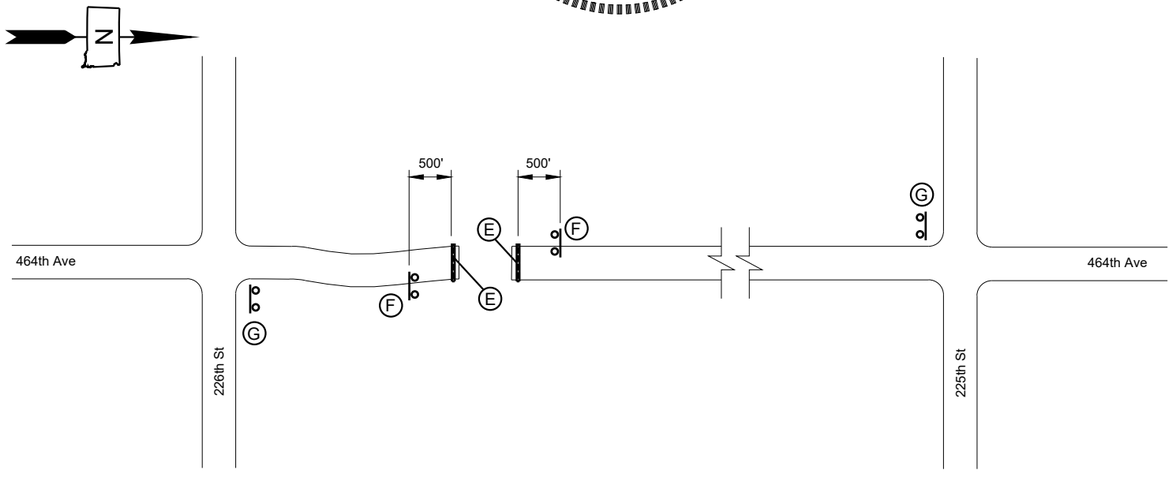
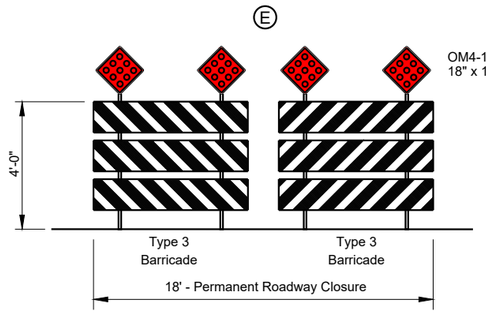
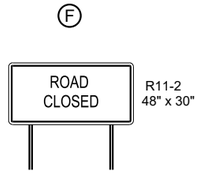
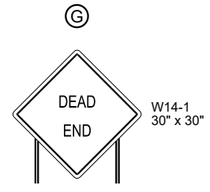
4-16-26

## CONSTRUCTION SIGNING




## ITEMIZED LIST FOR PERMANENT SIGNING

| SIGN CODE | DESCRIPTION | NUMBER REQUIRED | SIGN SIZE | SQ. FT. PER SIGN | SQ. FT. |
|---|---|---|---|---|---|
| W14-1 | ROAD CLOSED | 2 | 48" x 30" | 10.0 | 20.0 |
| R11-2 | DEAD END | 2 | 30" x 30" | 6.3 | 12.6 |
| | | Conventional Road Traffic Control Signs Sq. Ft. | | | 32.6 |

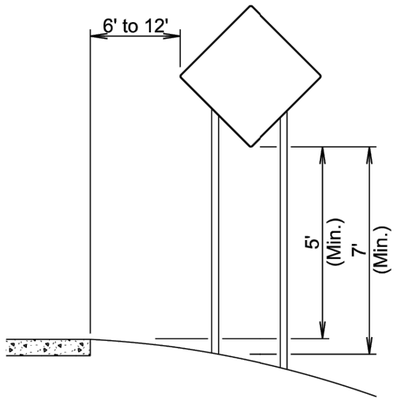
| DESCRIPTION | Each |
|---|---|
| Type 4 Object Marker | 8 |
| Type 3 Single Sided Barricade | 4 |

NOTES:
The exact location and spacing of signs shown will be determined in the field by the Engineer.

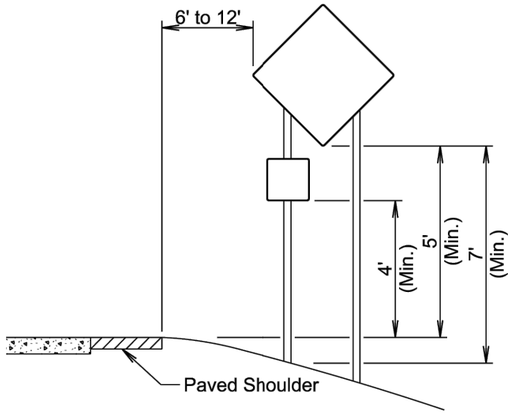
The stripes for the Type 3 Barricades for permanent signing will be alternating retroreflective red and retroreflective white.

All permanent signing will be mounted on 2.0" x 2.0" perforated tube posts.

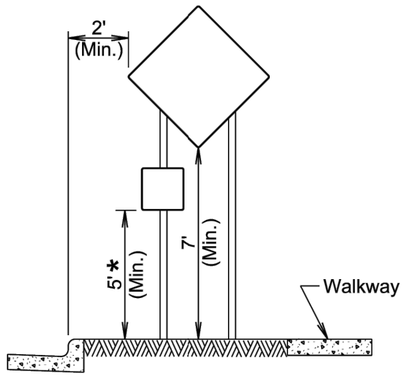
## PERMANENT SIGNING



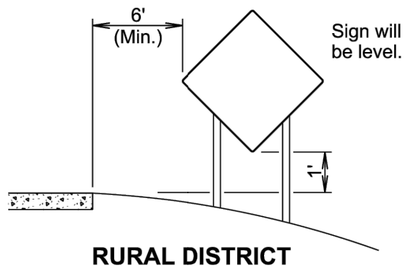

**RURAL DISTRICT**




**RURAL DISTRICT WITH SUPPLEMENTAL PLATE**




**URBAN DISTRICT**

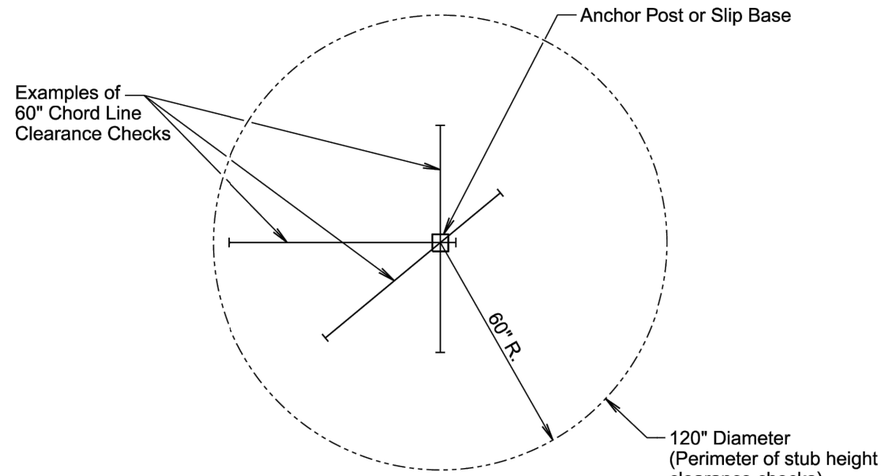



**RURAL DISTRICT**
**3 DAY MAXIMUM**
(Not applicable to regulatory signs)

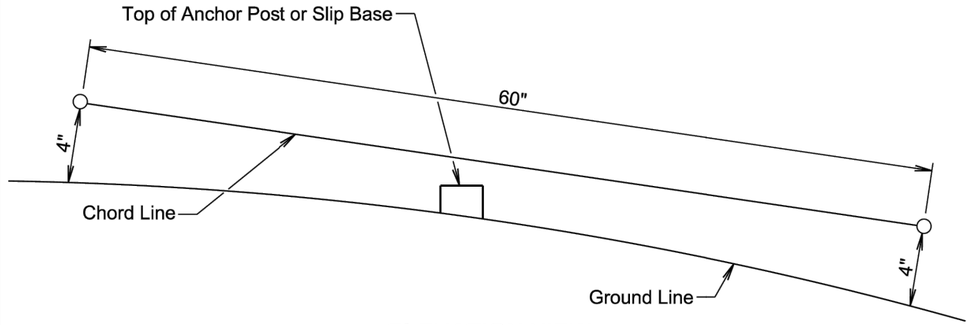
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

*January 22, 2021*

| Published Date: 2026 | SDDOT | CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing) | PLATE NUMBER 634.85 |
|---|---|---|---|
| | | | Sheet 1 of 1 |




**PLAN VIEW**
(Examples of stub height clearance checks)




**ELEVATION VIEW**

**GENERAL NOTES:**

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

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

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

*January 22, 2021*

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

| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|
| | BRO-B 8040(20) | 13 | 22 |

FOR BIDDING PURPOSES ONLY

## STORMWATER POLLUTION PREVENTION PLAN CHECKLIST

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

### 5.3 (2): STAFF TRAINING/SWPPP IMPLEMENTATION

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

### 5.3 (3): DESCRIPTION OF CONSTRUCTION ACTIVITIES

- **5.3 (3a): Project Limits** (See Title Sheet)
- **5.3 (3a): Project Description** (See Title Sheet)
- **5.3 (4): Site Map(s)** (See Title Sheet and Plans)
- **Major Soil Disturbing Activities** (check all that apply)
  - ☒ Clearing and grubbing
  - ☒ Excavation/borrow
  - ☒ Grading and shaping
  - ☐ Filling
  - ☐ Other (describe):
- **5.3 (3b): Total Project Area** 0.1 Acres
- **5.3 (3b): Total Area to be Disturbed** 0.1 Acre
- **5.3 (3c): Maximum Area Disturbed at One Time** 0.1 Acre
- **5.3 (3d): Existing Vegetative Cover (%)** 85
  - **5.3 (3d): Description of Vegetative Cover** Pasture type grass and shrubs
- **5.3 (3e): Soil Properties:** AASHTO Soil Classifications: N/A
- **5.3 (3f): Name of Receiving Water Body/Bodies** Battle Creek
- **5.3 (3g): Location of Construction Support Activity Areas** within ROW

### 5.3 (3h): ORDER OF CONSTRUCTION ACTIVITIES

**The Contractor will enter the Estimated Start Date.**

| Description | Estimated Start Date |
|---|---|
| Install temporary sediment control as needed. | |
| Remove existing structure. | |
| Salvage topsoil and grade banks to match existing. | |
| Place topsoil on newly graded banks. | |
| Install seeding, blankets, mulch and wattles. | |

### 5.3 (5): DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES

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

**Perimeter Controls (See Detail Plan Sheets)**

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

**Structural Erosion and Sediment Controls**

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

**Dust Controls**

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

**Dewatering BMPs**

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

**Stabilization Practices (See Detail Plan Sheets)**

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

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

**Wetland Avoidance**

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

**5.3 (6): PROCEDURES FOR INSPECTIONS**

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

**5.3 (7): POST CONSTRUCTION STORMWATER MANAGEMENT**

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

**5.3 (8): POLLUTION PREVENTION PROCEDURES**

**5.3 (8a): Spill Prevention and Response Procedures**

➢ **Material Management**

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

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

➢ **Spill Control Practices**

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

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

➢ **Spill Response**

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

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

**5.3 (8b): WASTE MANAGEMENT PROCEDURES**

➢ **Waste Disposal**

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

➢ **Hazardous Waste**

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

➢ **Sanitary Waste**

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

**5.3 (9): CONSTRUCTION SITE POLLUTANTS**

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

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

**Product Specific Practices**

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

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

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

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

**5.3 (10): NON-STORMWATER DISCHARGES**

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

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

**5.3 (11): INFEASIBILITY DOCUMENTATION**

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

**7.0: SPILL NOTIFICATION**

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

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

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

## 5.4: SWPPP CERTIFICATIONS

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

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

➢ **South Dakota Department of Transportation**

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

_____

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

➢ **Prime Contractor**

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

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

_____

Authorized Signature

## CONTACT INFORMATION

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

➢ **Contractor Information**:

- Prime Contractor Name: _____
- Contractor Contact Name: _____
- Address: _____
- _____
- City: _____State: _____Zip: _____
- Office Phone: _____Field: _____
- Cell Phone: _____Fax: _____

➢ **Erosion Control Supervisor**

- Name: _____
- Address: _____
- _____
- City: _____State: _____Zip: _____
- Office Phone: _____Field: _____
- Cell Phone: _____Fax: _____

➢ **SDDOT Project Engineer**

- Name: _____
- Business Address: _____
- Job Office Location: _____
- City: _____State: _____Zip: _____
- Office Phone: _____Field: _____
- Cell Phone: _____Fax: _____

➢ **SDDANR Contact Spill Reporting**
- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231

➢ **SDDANR Contact for Hazardous Materials.**
- (605) 773-3153

➢ **National Response Center Hotline**
- (800) 424-8802.

➢ **SDDANR Stormwater Contact Information**
- SDDANR Stormwater (800) 737-8676
- Surface Water Quality Program (605) 773-3351

## 5.5: REQUIRED SWPPP MODIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

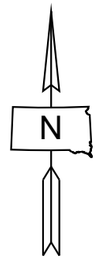
When modifications as described above occur, the SWPPP will be modified to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SDDOT Project Engineer will modify the SWPPP using the DOT 298 form and drawings on the plan will be modified to reflect the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

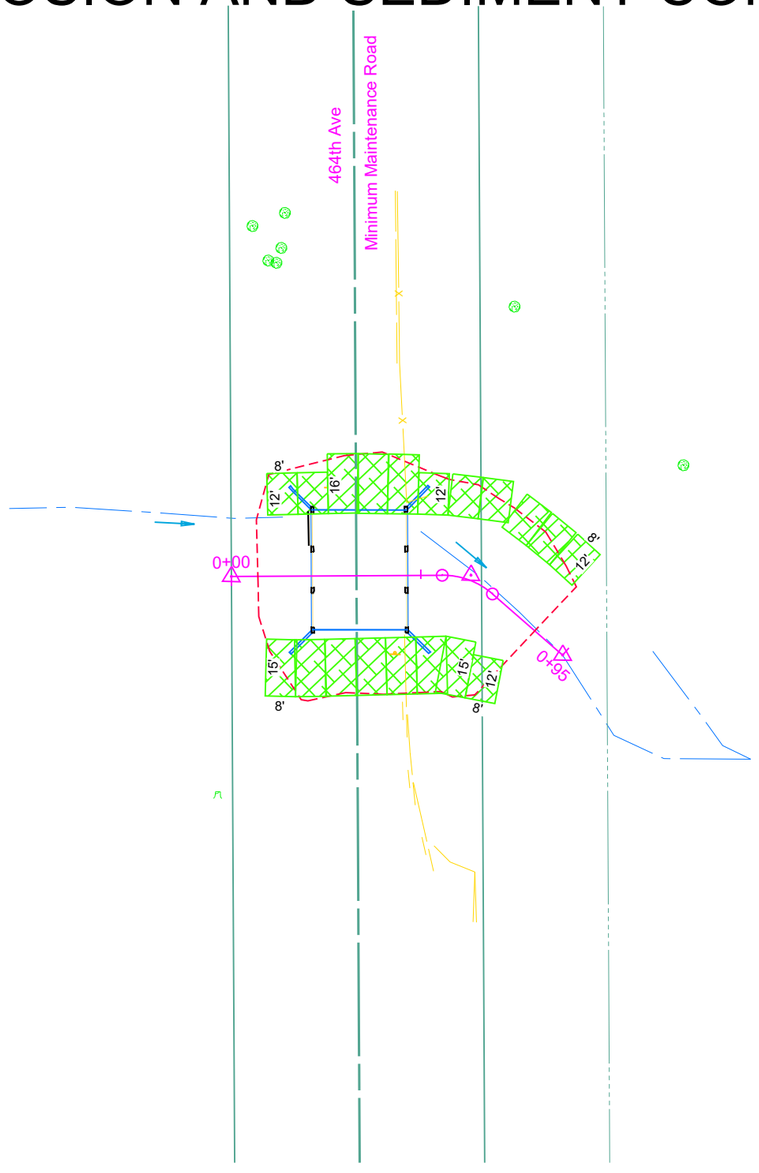
# EROSION AND SEDIMENT CONTROL

FOR BIDDING PURPOSES ONLY

| BAI JOB # 24020.15 | STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| | | BRO-B 8040(20) | 17 | 22 |

Plotting Date: 04/16/2026




LEGEND:

12" Diameter Erosion Control Wattle

Type 2 Erosion Control Blanket

REGISTERED PROFESSIONAL ENGINEER
REG NO. 9061
LUCAS A. JOHNSON
SOUTH DAKOTA
Lucas A Johnson
4-16-26

NOTES:

1. Maintain as much existing vegetation as possible during construction.
2. Wattles will be installed during construction as determined by the Engineer. 200 Ft are included in the quantities. Wattles will be installed per Standard Plate No. 734.06.
3. Install Erosion Control Blanket as shown and as directed by the Engineer. Erosion Control Blanket will be installed as per Standard Plate No. 734.01.
4. Wattles will be left onsite to decompose.

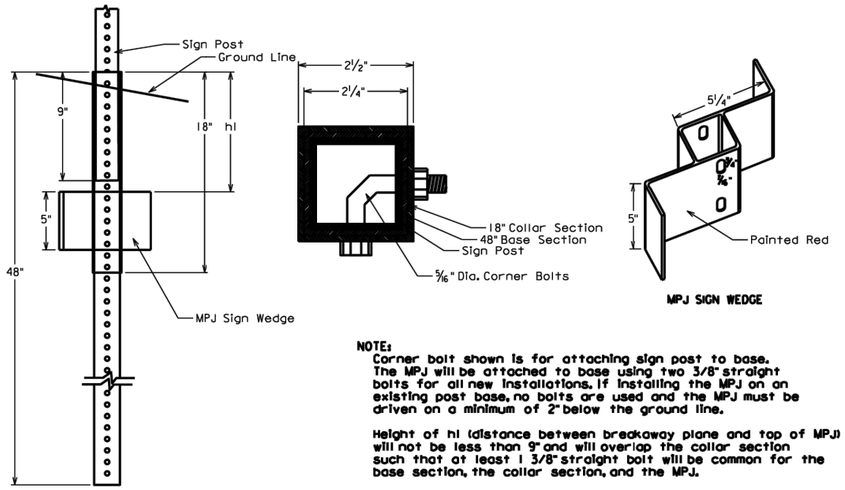
**TABLE OF EROSION CONTROL WATTLE**

| Location | | Diameter (inch) | Quantity (Ft) |
|---|---|---|---|
| As directed by Engineer | Additional Quantity: | 12 | 200 |
| | Total: | | 200 |

**TABLE OF EROSION CONTROL BLANKET**

| Location | Type | Quantity (SqYd) |
|---|---|---|
| South Bank | 2 | 104 |
| North Bank | 2 | 128 |
| Total Type 2 Erosion Control Blanket: | | 232 |

## SIGN BASE DETAILS FOR A 2" SIGN POST

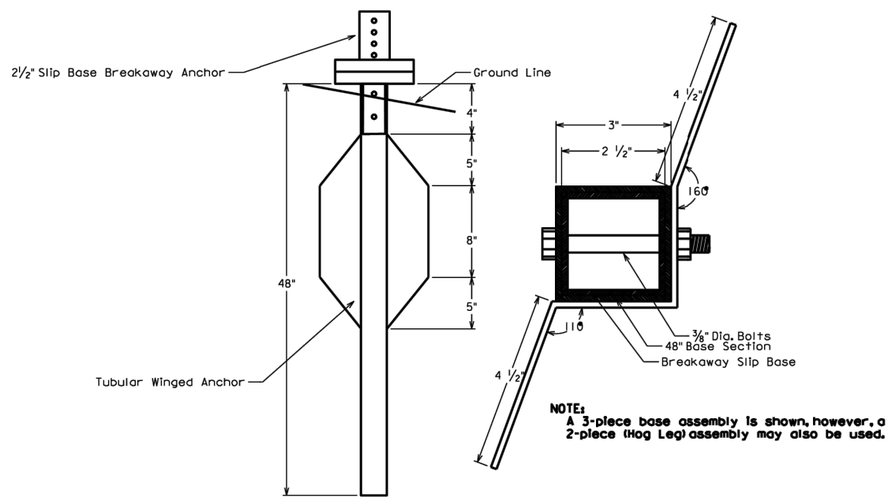



MPJ SIGN WEDGE

**NOTE:**
Corner bolt shown is for attaching sign post to base. The MPJ will be attached to base using two 3/8" straight bolts for all new installations. If installing the MPJ on an existing post base, no bolts are used and the MPJ must be driven on a minimum of 2" below the ground line.

Height of hi (distance between breakaway plane and top of MPJ) will not be less than 9" and will overlap the collar section such that at least 1 3/8" straight bolt will be common for the base section, the collar section, and the MPJ.

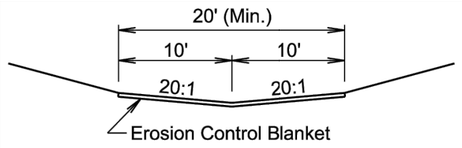
## SIGN BASE DETAILS FOR A 2½" SIGN POST



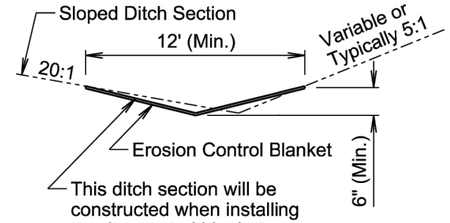

**NOTE:**
A 3-piece base assembly is shown, however, a 2-piece (Hog Leg) assembly may also be used.

August 25, 2021

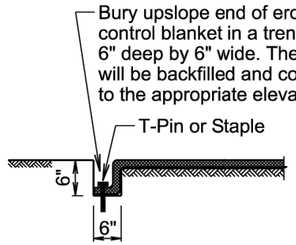
| | SDDOT | TUBULAR POST BASE DETAILS (Typical Soil Installation) | SPECIAL DETAIL L21 |
|---|---|---|---|
| | | | Sheet 1 of 1 |



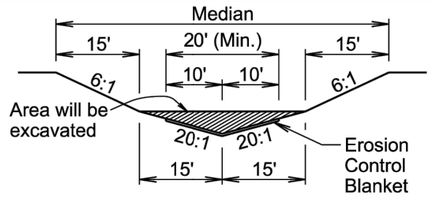

## STANDARD DITCH SECTION




## SLOPED DITCH SECTION

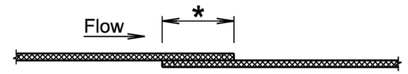



## TRENCH DETAIL




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

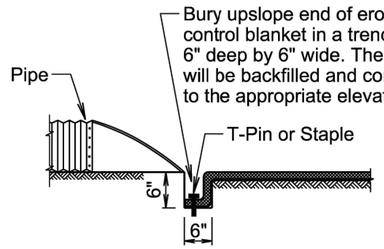
## MEDIAN SECTION




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

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

## OVERLAP DETAIL




## PIPE END DETAIL

**GENERAL NOTES:**

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

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

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

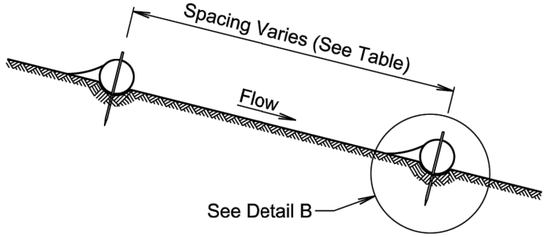
After the placement of the erosion control blanket, the Contractor will fine grade along all edges of the blanket to maintain a uniform slope adjacent to the blanket and level any low spots which might prevent uniform and unrestricted flow of side drainage directly onto the erosion control blanket.

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

February 14, 2020

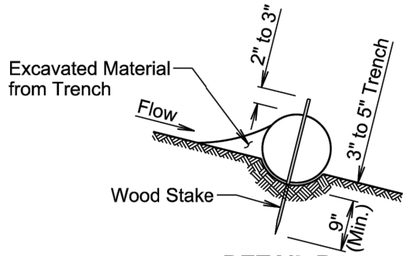
| | SDDOT | EROSION CONTROL BLANKET | PLATE NUMBER 734.01 |
|---|---|---|---|
| Published Date: 2026 | | | Sheet 1 of 1 |

Plotting Date: 04/16/2026

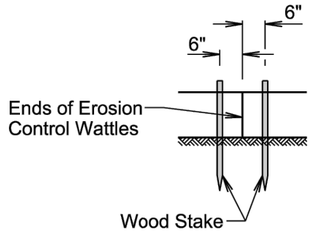



**ELEVATION VIEW**
(Cut or Fill Slope Installation)

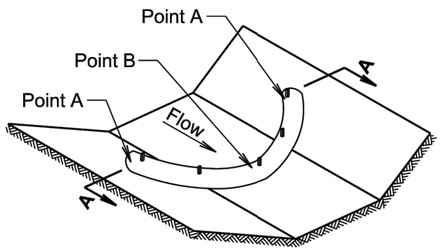
| CUT OR FILL SLOPE INSTALLATION | |
|---|---|
| Slope | Spacing (Ft.) |
| 1:1 | 10 |
| 2:1 | 20 |
| 3:1 | 30 |
| 4:1 | 40 |



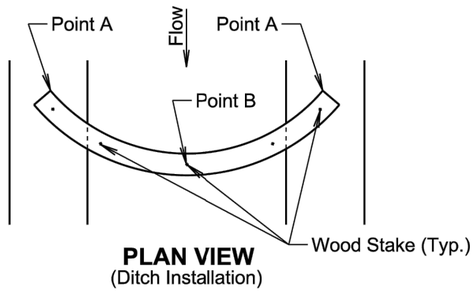

**DETAIL B**
(Typical of All Installations)




**DETAIL C**
(See General Notes)

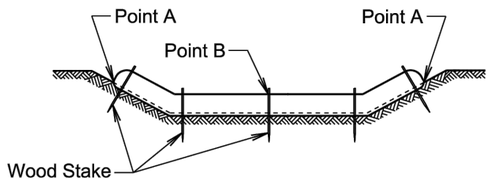



**ISOMETRIC VIEW**
(Ditch Installation)




**PLAN VIEW**
(Ditch Installation)

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




**SECTION A-A**

February 14, 2020

| Published Date: 2026 | SDDOT | EROSION CONTROL WATTLE | PLATE NUMBER 734.06 |
|---|---|---|---|
| | | | Sheet 1 of 2 |

**GENERAL NOTES:**

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

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

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

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

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

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

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

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

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

February 14, 2020

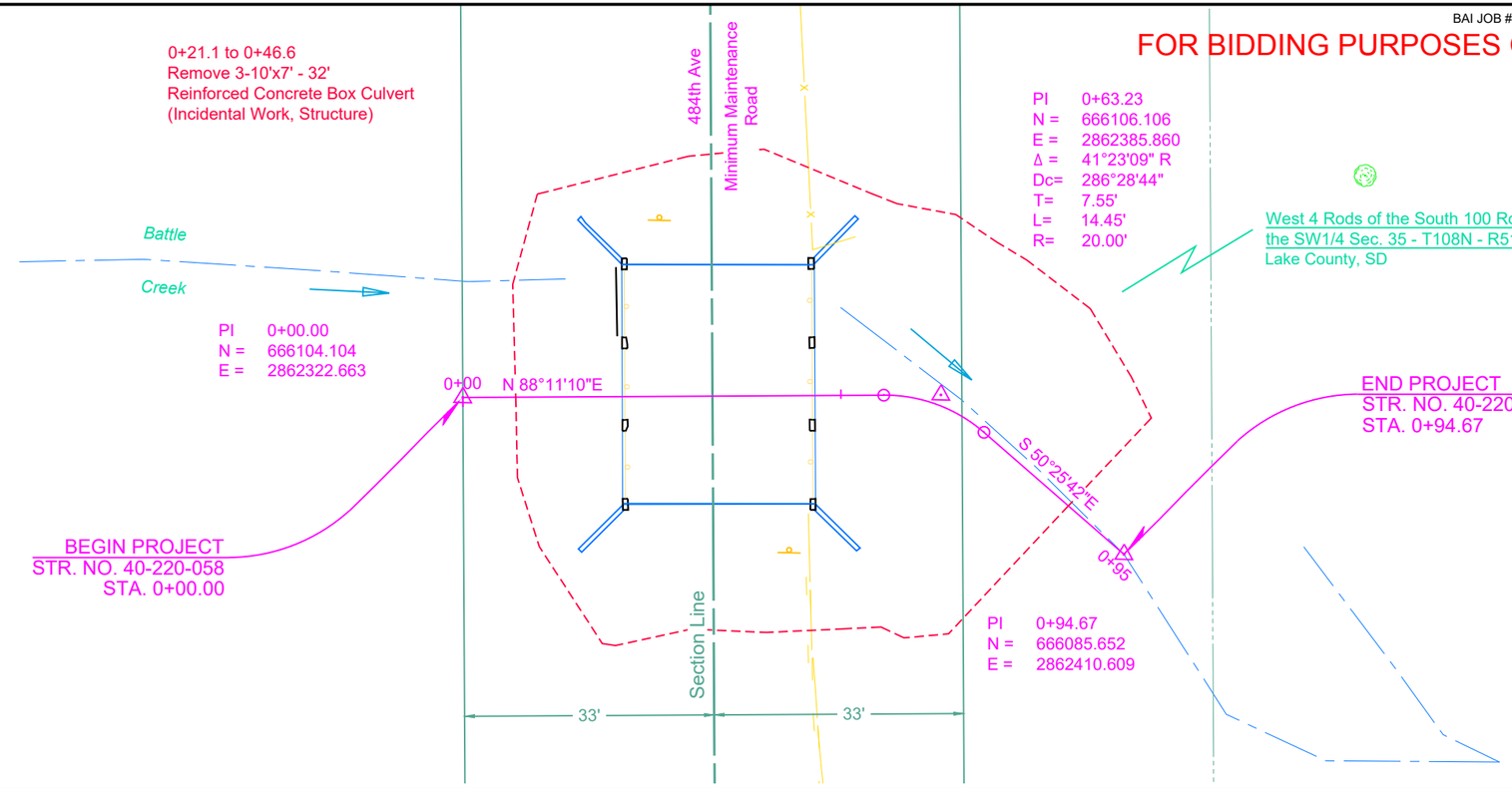
| Published Date: 2026 | SDDOT | EROSION CONTROL WATTLE | PLATE NUMBER 734.06 |
|---|---|---|---|
| | | | Sheet 2 of 2 |

| BAI JOB # 24020.15 | STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| | | BRO-B 8040(20) | 20 | 22 |

FOR BIDDING PURPOSES ONLY

Plotting Date: 04/16/2026

0+21.1 to 0+46.6
Remove 3-10'x7' - 32'
Reinforced Concrete Box Culvert
(Incidental Work, Structure)




SE1/4 Sec. 34 - T108N - R51W
Gracevale Hutterian Brethren, Inc.
23843 446th Ave
Winfred, SD 57076

BEGIN PROJECT
STR. NO. 40-220-058
STA. 0+00.00

West 4 Rods of the South 100 Rods of the SW1/4 Sec. 35 - T108N - R51W 1
Lake County, SD

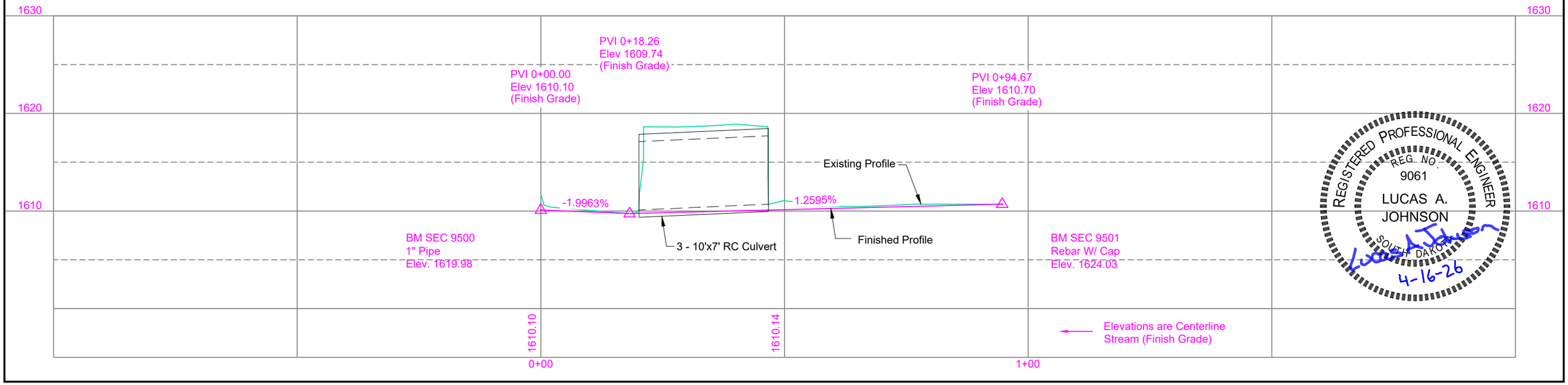
END PROJECT
STR. NO. 40-220-058
STA. 0+94.67

Hammer's Addition Tract 1
Glenn D. Eggebraaten Living Trust
46353 225th St.
Rutland, SD 57057

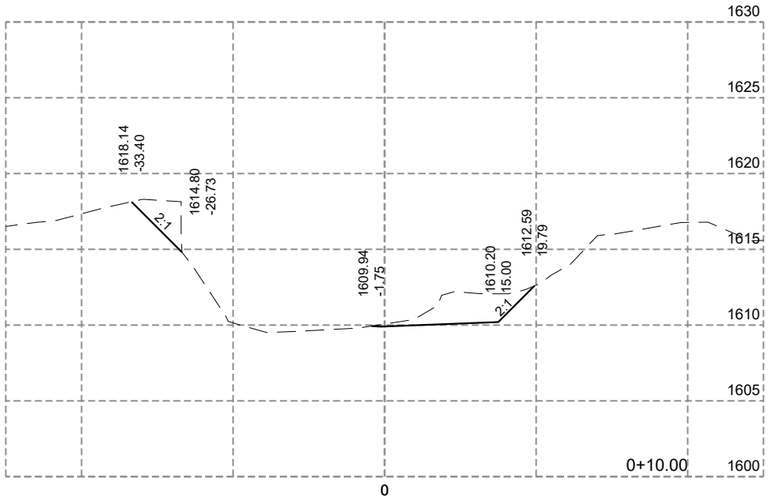
N

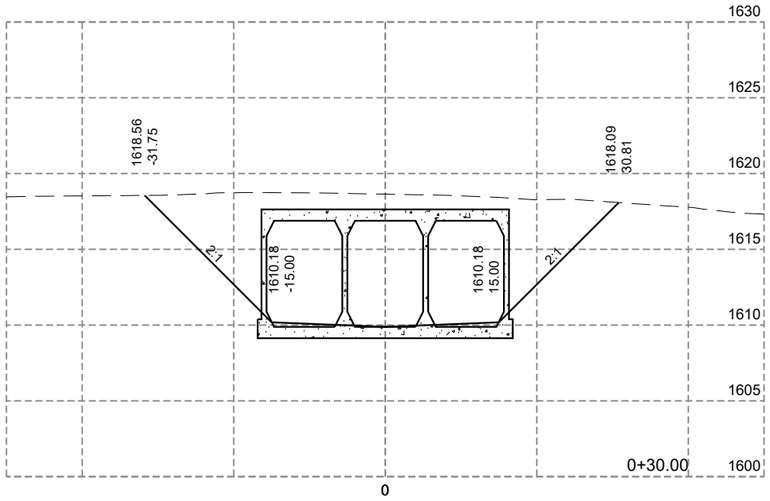
| 0+00 Begin Work | Excavation = 220 CuYd | Embankment = 0<br>Placing Topsoil = 26<br>+ Waste = 194 | 220 CuYd | 0+94.67 End Work |
|---|---|---|---|---|

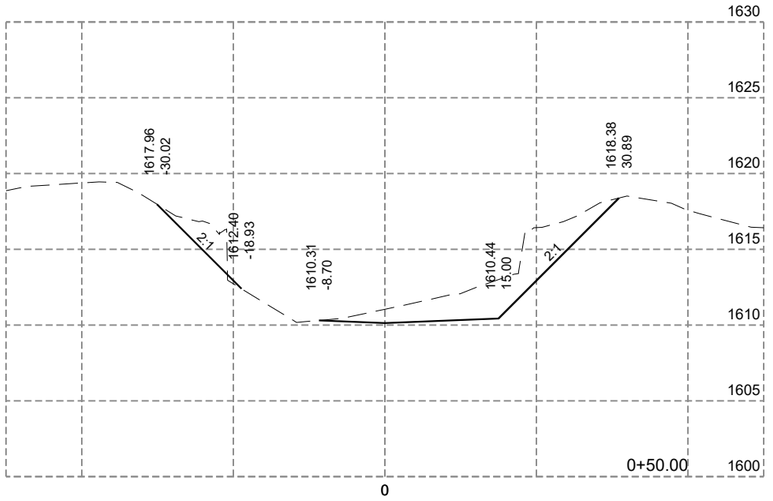
Waste Site will be approved by the Engineer.

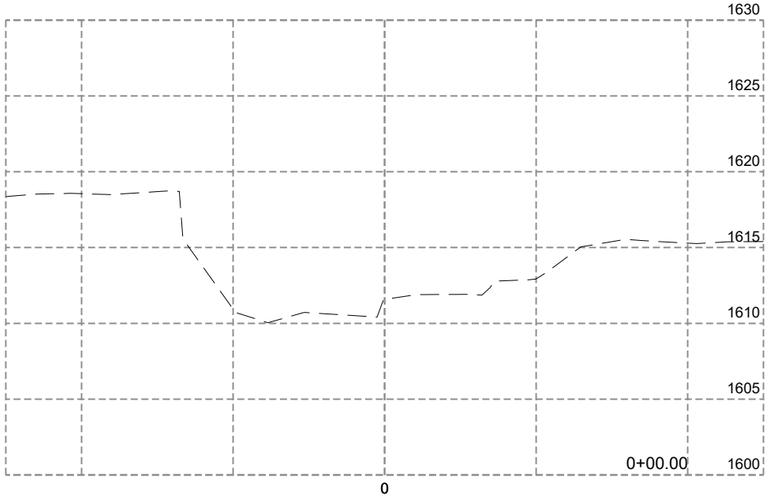


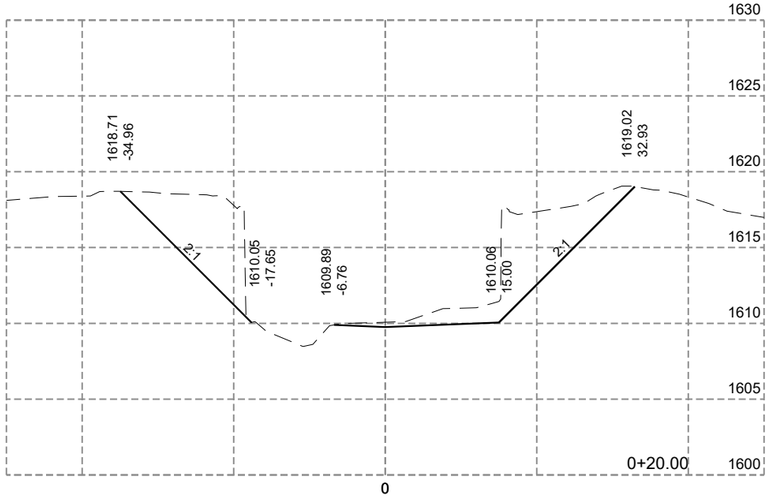

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 9061
LUCAS A. JOHNSON
SOUTH DAKOTA
4-16-26

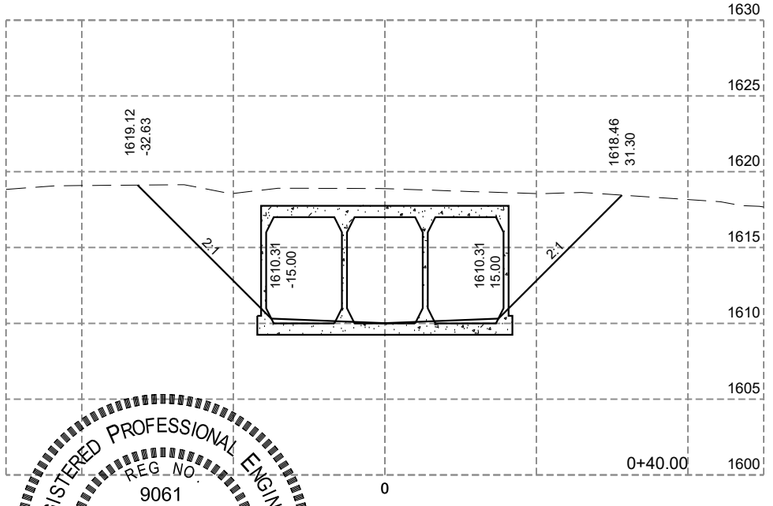
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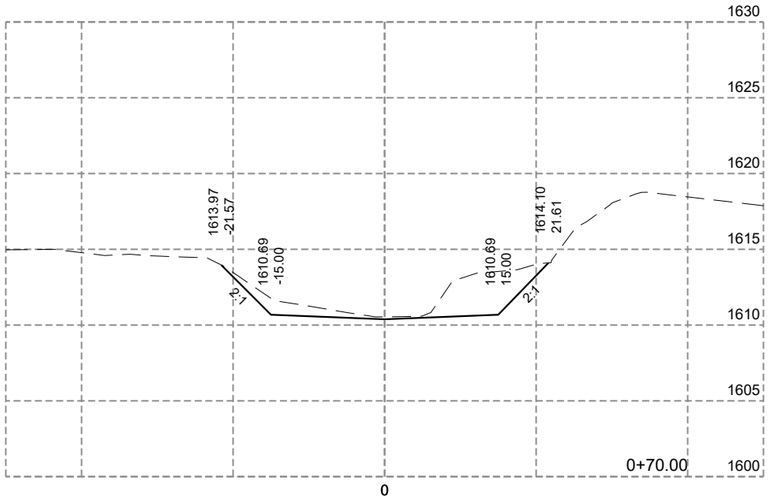


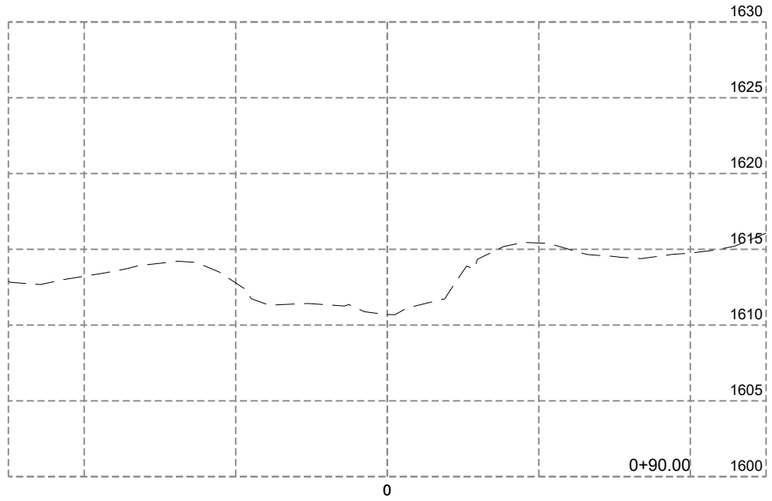


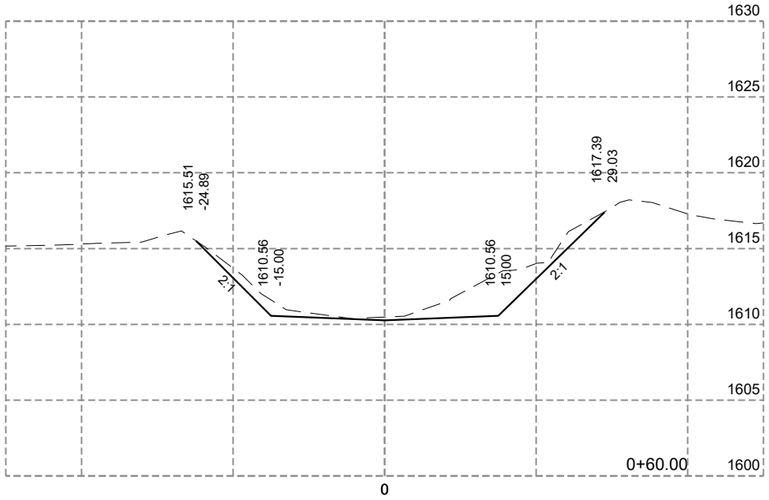


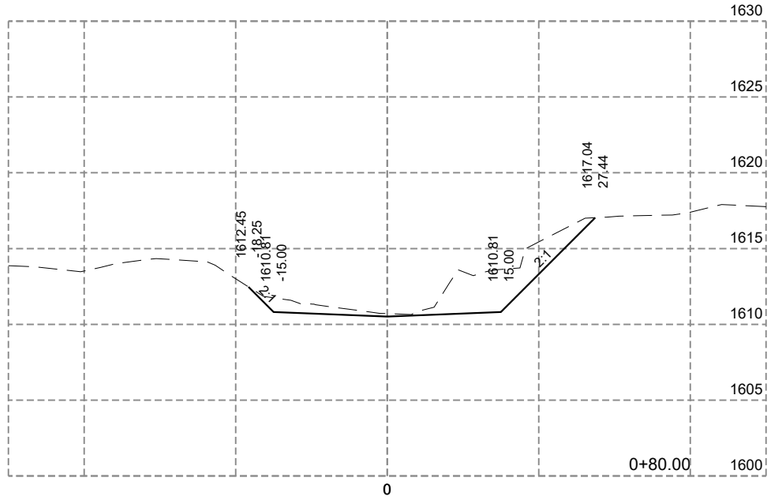


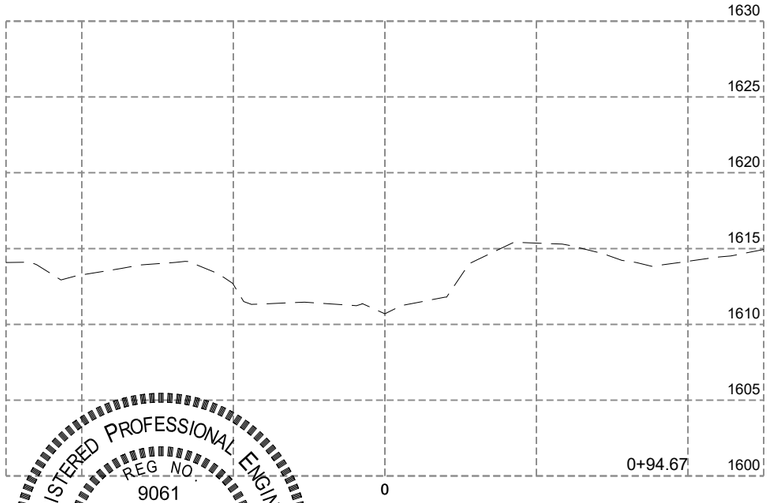


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