

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	1	18

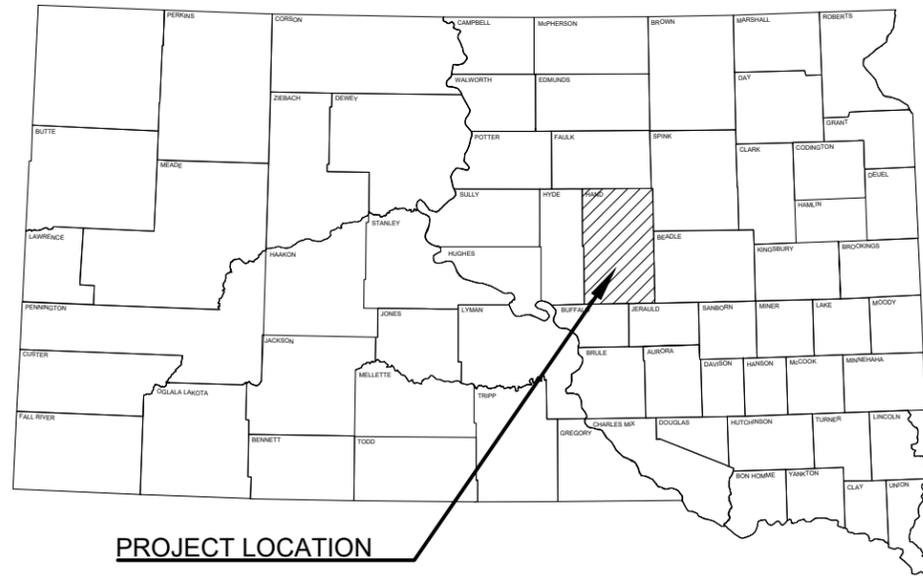
STATE OF SOUTH DAKOTA **FOR BIDDING PURPOSES ONLY**
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT BRF-B 8030(26) HAND COUNTY

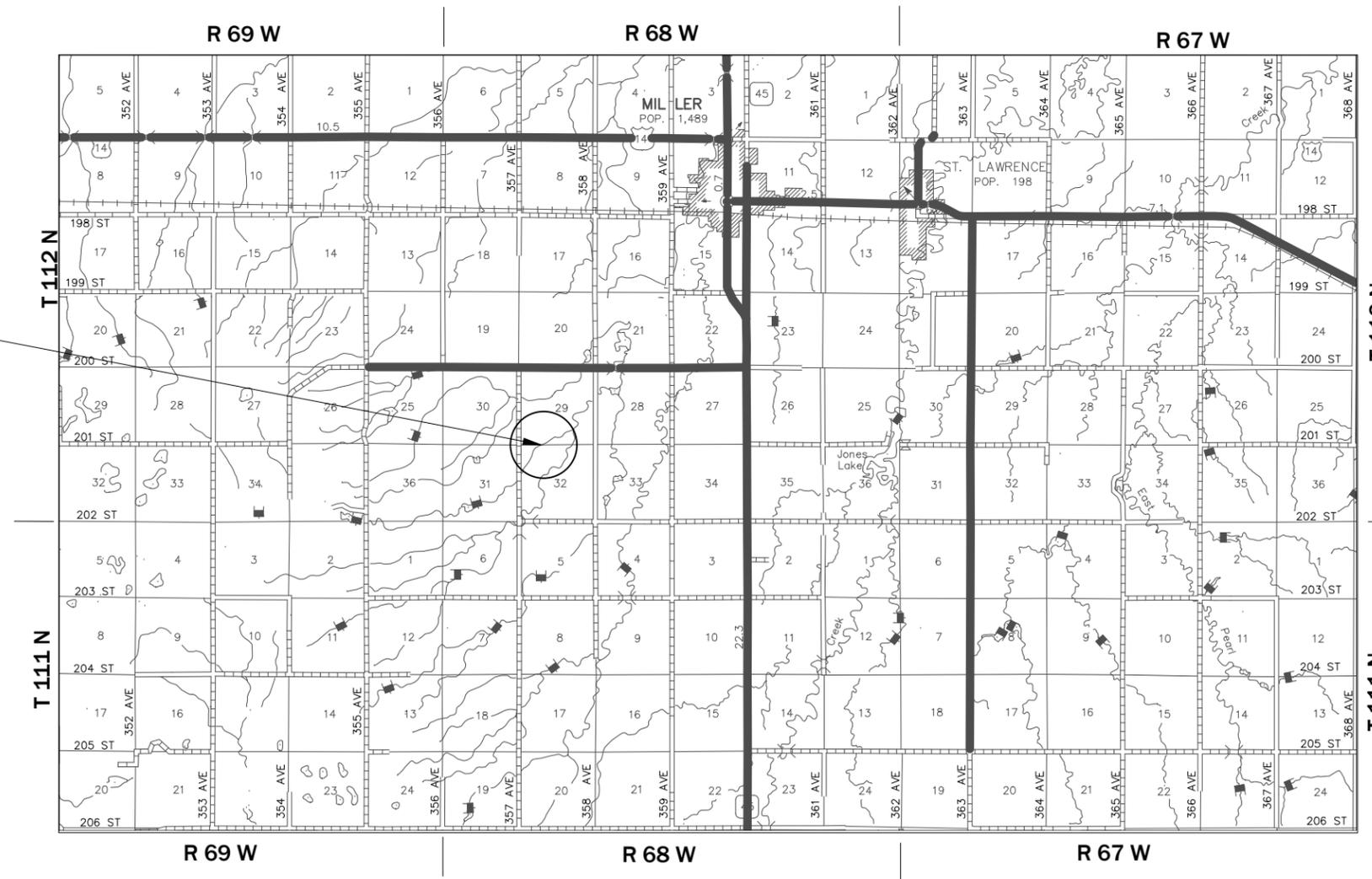
STRUCTURE REMOVAL
STRUCTURE No. 30-133-290
PCN 09LY

INDEX OF SHEETS

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PROJECT LOCATION



STRUCTURE NO.
30-133-290



DESIGN DESIGNATION

ADT (2021): 10
ADT (2041): 13
DHV: 2
d: 5%
T DHV: 3.6%
T ADT: 8.0%
DESIGN SPEED 55 MPH

STORM WATER PERMIT

MAJOR STREAM: REE CREEK
AREA DISTURBED: 0.13 ACRES
PROJECT AREA: 0.35 ACRES

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April 15, 2026

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
110E0130	Remove Traffic Sign	2	Each
120E0010	Unclassified Excavation	243	CuYd
230E0010	Placing Topsoil	53	CuYd
632E1320	2.0"x2.0" Perforated Tube Post	72.0	Ft
632E2535	Type 4 Object Marker	6	Each
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	30.6	SqFt
634E0110	Traffic Control Signs	77.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	8	Each
734E0010	Erosion Control	Lump Sum	LS
734E0103	Type 3 Erosion Control Blanket	500	SqYd
734E0154	12" Diameter Erosion Control Wattle	40	Ft
734E0604	High Flow Silt Fence	240	Ft
734E0610	Mucking Silt Fence	17	CuYd
734E0620	Repair Silt Fence	60	Ft

STRUCTURE No. 30-133-290

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

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 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)
Ree Creek	28+70 to 29+60	0.00	0.013	0.013

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 B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to 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**

Ree creek is classified as fish and wildlife propagation, recreation, irrigation, and stock watering waters. Because of these beneficial uses, special construction measures may have to be taken to ensure that this water body is not impacted.

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/Ereporting.aspx>>

COMMITMENT E: STORM WATER

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

Action Taken/Required:

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

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

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

The form can be found at:

<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAAppendixCCA2023Fillable.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.



COMMITMENT H (CONTINUED)

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
29+00	Ree Creek	1672.40

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.

SEQUENCE OF OPERATIONS

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



GENERAL TRAFFIC CONTROL

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

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

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

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

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

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

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

GRADING OPERATIONS

Water for Embankment may be required. No separate payment will be made for the Water for Embankment and all costs associated will be incidental to the contract unit price per cubic yard of "Unclassified Excavation".

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

Grades will be constructed to the limits shown to blend the existing roadway section into the stream embankment. If significant changes to the cross sections are necessary during construction, the Engineer will contact the Designer for the proposed change.

WORK AREA

The Contractor's work limits will be confined to the existing right-of-way.

PROCEDURES FOR DETERMINING UNCLASSIFIED EXCAVATION QUANTITY

The plans quantity for "Unclassified Excavation" as shown in the Estimate of Quantities will be the basis of payment for this item. No field measurements will be made.

TABLE OF UNCLASSIFIED EXCAVATION

Excavation (Finish Grade to Existing Grade)	190
Topsoil	53
Total	243 CY

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 on the grading plan and profile sheets.

STRIPPING, STOCKPILING, AND PLACING TOPSOIL

The Contractor will be required to remove and salvage the existing topsoil throughout the anticipated embankment widening areas. The topsoil removal will be done prior to work commencing throughout the areas.

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

	Stripping and Placing Topsoil (CuYd)	Thickness of Removal (in)
Total:	53	3

The Contractor will stockpile the material at a site above the "ordinary high water mark" approved by the Engineer, and/or windrow the material near the disturbed areas to control potential sediment runoff as determined by the Engineer. The replacement of topsoil will be spread evenly throughout all disturbed areas upon completion of the work. Any clumps larger than 3 inches will be broken up prior to seeding the areas.

Measurement of topsoil quantities will not be made, and all cost associated with removing, salvaging, stockpiling and windrowing will be incidental to the unit price for "Unclassified Excavation". All topsoil removal, stockpiling, salvaging, windrowing, and replacement will be done according to the plans and/or as directed by the Engineer.

The plans quantity for "Placing Topsoil" as shown in the Estimate of Quantities will be the basis of payment for this item. No field measurements will be made.

PERMANENT SEEDING

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

Type C Permanent Seed Mixture will consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	16
Canada Wildrye	Mandan	2
Total:		18

Square yardage for seeding is presented in the plansheets. Costs associated with seeding will be incidental to the lump sum unit price for Erosion Control.

MULCHING

Mulching will consist of grass hay or straw and will be blown on and punched in to a 3 inch depth at the rate of 2 tons per acre on all newly seeded areas without Erosion Control Blanket.

HIGH FLOW SILT FENCE

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

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

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

An additional quantity of high flow silt fence has been added to the Estimate of Quantities for temporary sediment control including inlet protection as shown in the plans.



TABLE OF HIGH FLOW SILT FENCE

Station	Location	Quantity (Ft)
28+93.71 to 28+36.03	Lt to Rt	120
29+41.14 to 29+19.59	Lt to Rt	91
	Additional Quantity:	29
	Total:	240

EROSION CONTROL BLANKET

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

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

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

An additional quantity of Type 3 Erosion Control Blanket has been added to the Estimate of Quantities for temporary erosion control.

TABLE OF EROSION CONTROL BLANKET

Station	Location	Type	Quantity (SqYd)
28+63.71 to 28+91.00	Rt to Lt	3	110
29+08.97 to 29+72.40	Rt to Lt	3	306
	Additional Quantity:	3	84
Total Type 3 Erosion Control Blanket:			500

CONTROL WATTLE

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

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

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

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

TABLE OF EROSION CONTROL WATTLE

Station	Location	Diameter (Inch)	Quantity (Ft)
28+90.71	Lt	12	20
	Additional Quantity:		20
	Total:		40

GENERAL PERMANENT SIGNING

New sign installations will be staked in the field by the Contractor and checked by the Engineer. The Contractor will give the Engineer a minimum of one week to check staked locations prior to signpost installation. Lateral offset of signs will be as shown in the plans or as directed by the Engineer.

The Contractor will be responsible for contacting South Dakota One Call to locate the utilities at the staked sign installation locations.

When signs are mounted in an assembly, they will be 1-2 inches apart vertically and horizontally.

The height of the post must not exceed the minimum height needed by more than 0.5 feet. Any portion that extends above the sign will be cut off. No separate payment will be made for cutting the post or for that length cut off.

Aluminum U-Channel stiffeners will be used on all signs 36 inches or greater in width and will conform to ASTM B221 Alloy 6063-T6 or 6061-T6. The U-Channel will be 2 inches in width and free of holes. The U-Channel stiffeners will also be used to connect various signs together so that an entire sign assembly can be erected on a single installation. Stiffeners may be fastened to signs by use of 1/4-inch diameter drive rivets.

The Contractor will use 3/8-inch diameter rust proof machine sign bolts, flat metal washers, neoprene washers (against the sign sheeting), lock washers, and nuts to fasten the sign to the channel aluminum and posts. A minimum of two bolts will extend through each post.

Prior to ordering signs, the Contractor will verify dimensions, background, border, and legend of the signs.

Prior to use, the Contractor will provide documentation for the sign support devices showing they meet the applicable NCHRP 350 or MASH requirements.

REMOVE TRAFFIC SIGN

Existing signs that are shown as being removed in the Permanent Signing Table will become the property of the Contractor. Existing signposts and bases will be removed in their entirety. All existing signs, posts, and/or hardware removed will not be reused. Holes remaining from the removal of wood posts will be backfilled and compacted with material placed in layers not to exceed 6 inches in depth.

All costs associated with the removal of existing signs, posts, hardware, and backfilled holes will be incidental to the contract unit price per each for "Remove Traffic Sign". Quantities will be per assembly at the contract unit price per each.

NEW PERMANENT SIGNING

All signs will be manufactured in accordance with the sheeting manufacturer's recommendations utilizing a matched component system, including inks, electronic cuttable films, and protective overlay films.

All Flat Aluminum Signs, Nonremovable Copy High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type IV. All Flat Aluminum Signs, Nonremovable Copy Super/Very High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type XI.

All costs associated with furnishing and installing the new permanent signs, and with furnishing and installing stiffeners and hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

DIGITALLY PRINTED SIGNS

Digitally printed signs will be allowed on this project. If the Contractor elects to provide digitally printed signs, such signs will adhere to the following specifications.

PROTECTIVE OVERLAY FILM

Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlaminates will comply with the retroreflective sheeting manufacturer's recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in Table 1.

Table 1: Retroreflective Film Minimum Durability Requirements

ASTM D4956 Type	Full Sign Replacement Term (years)	Sheeting Replacement Term (years)
I	0	7
III	7	10
IV	7	10
VIII	7	10
IX	7	12
XI	7	12



DIGITALLY PRINTED SIGNS (CONTINUED)**FABRICATION**

Retroreflective sheeting will be applied to a properly cleaned and prepared aluminum sign blank in accordance with the retroreflective sheeting manufacturer's recommendations. Sign legend will be applied using digital print technologies and systems in accordance with the retroreflective sheeting manufacturer's recommendations and the requirements of these plans.

Finished signs will be free of ragged edges and must be supplied clean and free of scratches, grease, oil, lubricants or other contaminants. Minor blemishes (dirt speck, dust, etc.) may settle on the fresh ink surface or become entrapped between the sheeting surface and transparent overlay film due to static charge within the sign shop environment. Any blemish must be minor and not interfere with the communication of the sign message to the motorist. The blemish must not be visible to the naked eye when viewed from 30 feet or greater.

After application of the retroreflective sheeting, sign blanks will be stacked and packaged face to face, back to back, and protected in accordance with the sheeting manufacturer's recommendations. Finished signs will be securely packaged to prevent damage during transit or storage according to the sheeting manufacturer's recommendations.

TRAFFIC SIGN PERFORMANCE WARRANTY PROVISIONS

Based on the ASTM Type of sheeting specified, traffic control signs will be warranted for the duration shown in Table 1. Full product terms and conditions are as established by each sheeting manufacturer and may contain certain limitations based on sheeting and ink colors, and geographic exposure of the sign. A copy of the warranty document with complete details of terms and conditions will be supplied if requested by the Engineer.

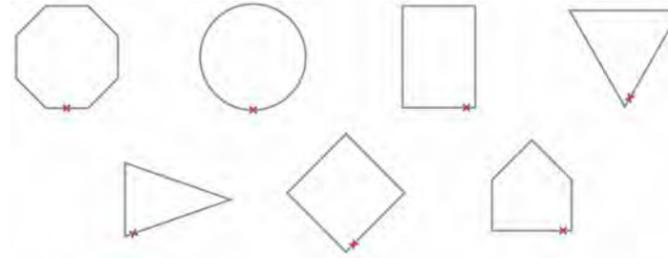
CERTIFIED DIGITAL SIGN FABRICATOR

Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

DATE TAGGING SIGNS WITH PERTINENT INFORMATION

All digitally printed signs are required to be date-tagged with the following 2 components:

1. Date tags on the back of signs
Tags will have the following information and be fabricated with material and printing system that are as durable as the warranted sign.
 - Name of Sign Fabricator
 - Date the sign was fabricated (month and year)
 - Process that was used for sign fabrication (digitally printed)
 - Supplier of sheeting that was used for fabricating the sign.
2. Border date
The month and year (mm/yyyy) of sign fabrication will be printed in the border of the sign in 3/8" sans serif font. Border date will be printed with the same warranted printed system as the sign face. The date should be printed in the locations indicated below.

**SQUARE TUBE ANCHOR SLEEVE**

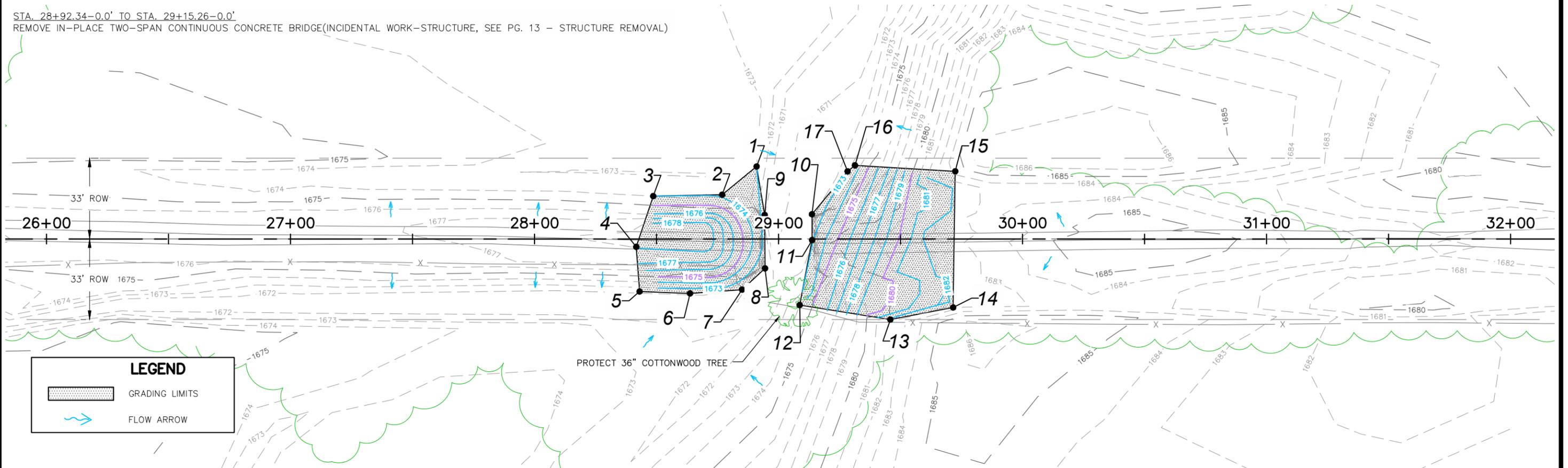
The Contractor will furnish and install new 2.5" x 2.5" x 18", 12 Gauge square tube anchor sleeve or equivalent components as approved by the Engineer for 2.0" x 2.0" perforated tube posts. A 2.25" x 2.25" x 4', 12 Gauge perforated tube post will be used as the anchor post for installation with the square tube anchor sleeve.



GRADING PLAN & PROFILE FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	8	18

STA. 28+92.34-0.0' TO STA. 29+15.26-0.0'
 REMOVE IN-PLACE TWO-SPAN CONTINUOUS CONCRETE BRIDGE(INCIDENTAL WORK-STRUCTURE, SEE PG. 13 - STRUCTURE REMOVAL)

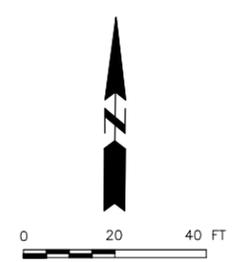
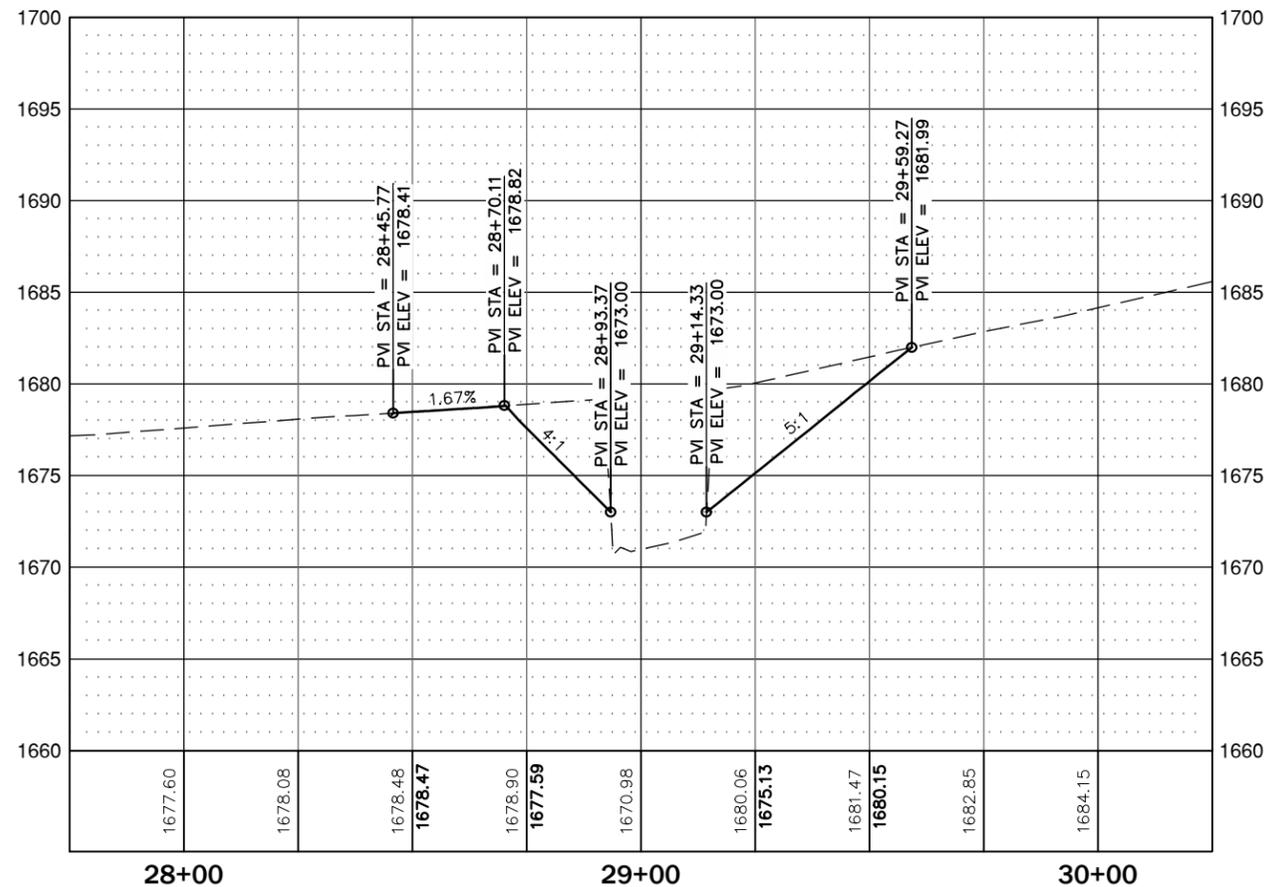


LEGEND

- Grading Limits (hatched area)
- Flow Arrow (blue arrow)

GRADING LIMITS				
POINT	STATION	OFFSET	NORTHING	EASTING
1	28+91.00	29.64' L	234400.643	2219846.333
2	28+76.88	18.11' L	234388.995	2219832.32
3	28+48.62	17.53' L	234388.165	2219804.068
4	28+41.66	3.23' R	234367.343	2219797.291
5	28+43.02	21.50' R	234349.089	2219798.803
6	28+63.71	22.27' R	234348.494	2219819.498
7	28+85.00	20.72' R	234350.234	2219840.779
8	28+94.43	12.01' R	234359.025	2219850.131
9	28+94.32	9.80' L	234380.834	2219849.832
10	29+13.68	10.13' L	234381.33	2219869.188
11	29+13.71	0.47' R	234370.731	2219869.312
12	29+08.67	27.01' R	234344.149	2219864.504
13	29+45.80	32.93' R	234335.771	2219901.707
14	29+71.52	28.00' R	234343.707	2219927.36
15	29+72.40	27.67' L	234399.387	2219927.754
16	29+31.31	30.10' L	234401.455	2219886.639
17	29+28.26	27.65' L	234398.977	2219883.612

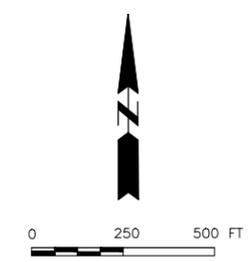
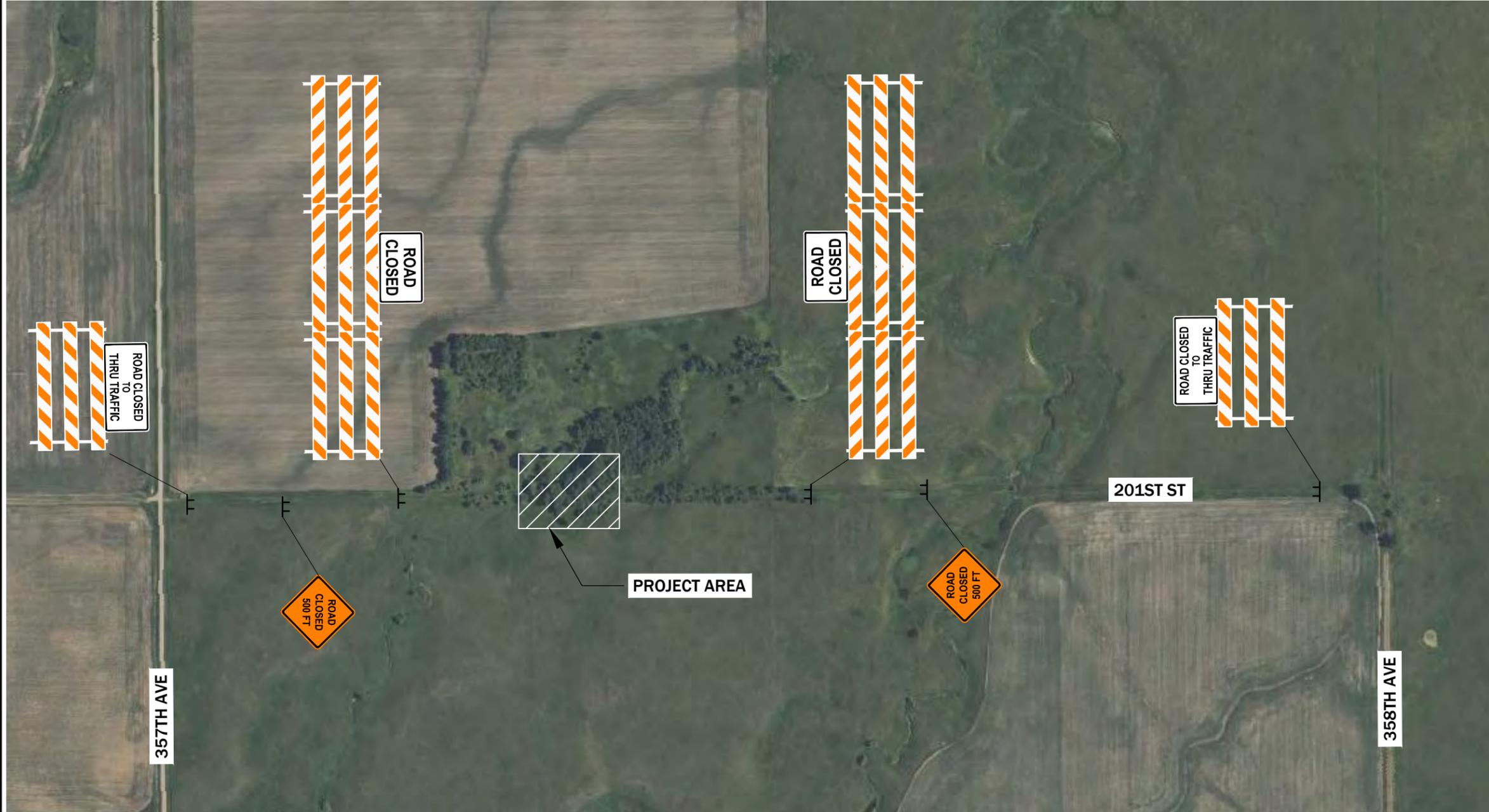
Excavation	190	CuYd	Embankment	0	CuYd
Topsoil - Removal	53	CuYd	Topsoil - Place	53	CuYd
			35% Shrinkage	0	CuYd
			Waste	190	CuYd
Total	243	CuYd	Total	243	CuYd



TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	9	18



ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS					
SIGN CODE	SIGN SIZE	SIGN DESCRIPTION	QUANTITY	SQFT PER SIGN	TOTAL (SF)
W20-3	48" x 48"	ROAD CLOSED 500 FT	2	16.0	32.0
R11-4	60" x 30"	ROAD CLOSED TO THRU TRAFFIC	2	12.5	25.0
R11-2	48" x 30"	ROAD CLOSED	2	10.0	20.0
TOTAL =					77.0

SIGN INSTALL				
NORTHING	EASTING	STATION - OFFSET	SIGN CODE	SIGN DESCRIPTION
234344.7511	2218064.852	11+09.09 - 10.68' R	R11-4	ROAD CLOSED TO THRU TRAFFIC
234408.3323	2222944.6503	59+89.26 - 10.26' L	R11-4	ROAD CLOSED TO THRU TRAFFIC
234334.828	2218475.7065	15+19.85 - 24.2' R	W20-3	ROAD CLOSED 500 FT
234408.6596	2221252.7781	42+97.46 - 25.37' L	W20-3	ROAD CLOSED 500 FT
234363.3829	2218974.1625	20+18.53 - 0'	R11-2	ROAD CLOSED
234378.9231	2220752.8426	37+97.28 - 0'	R11-2	ROAD CLOSED

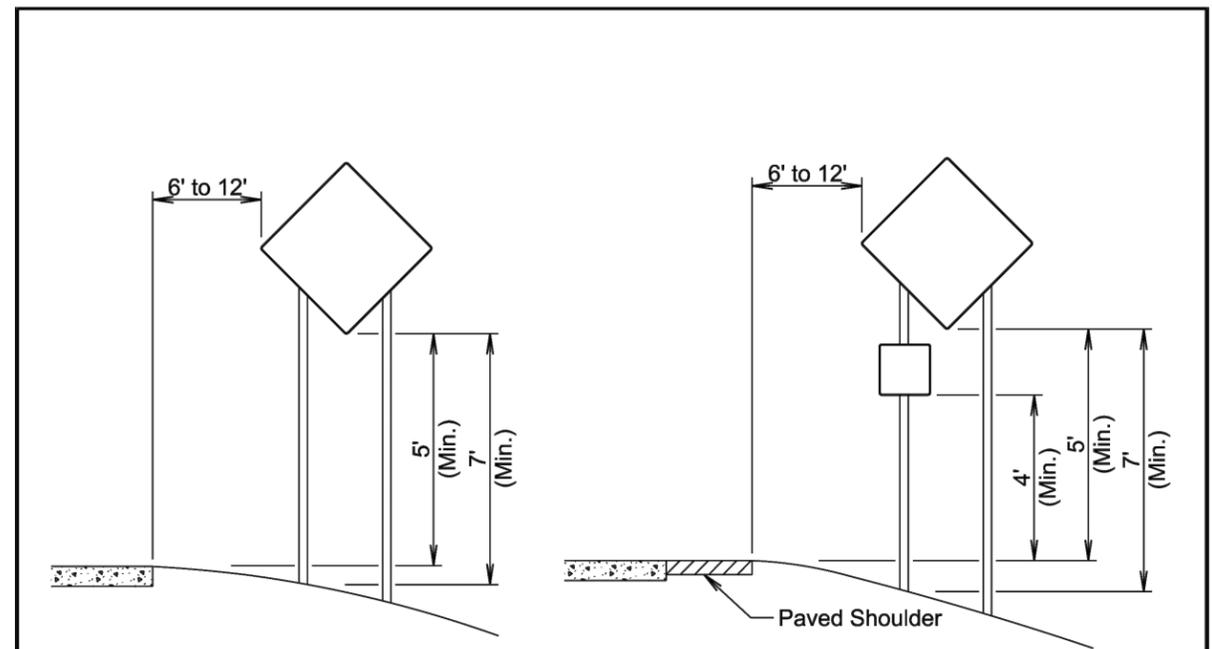
OTHER TRAFFIC CONTROL ITEMS			
	DESCRIPTION	UNITS	Total/Max Required
634E0275	Type 3 Barricade, 8' Double Sided	EACH	8



TRAFFIC CONTROL

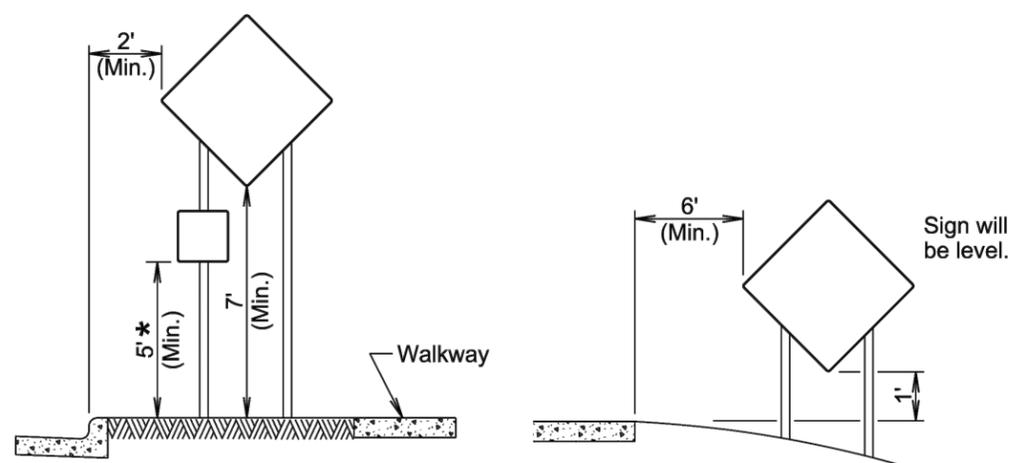
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	10	18



RURAL DISTRICT

RURAL DISTRICT WITH SUPPLEMENTAL PLATE



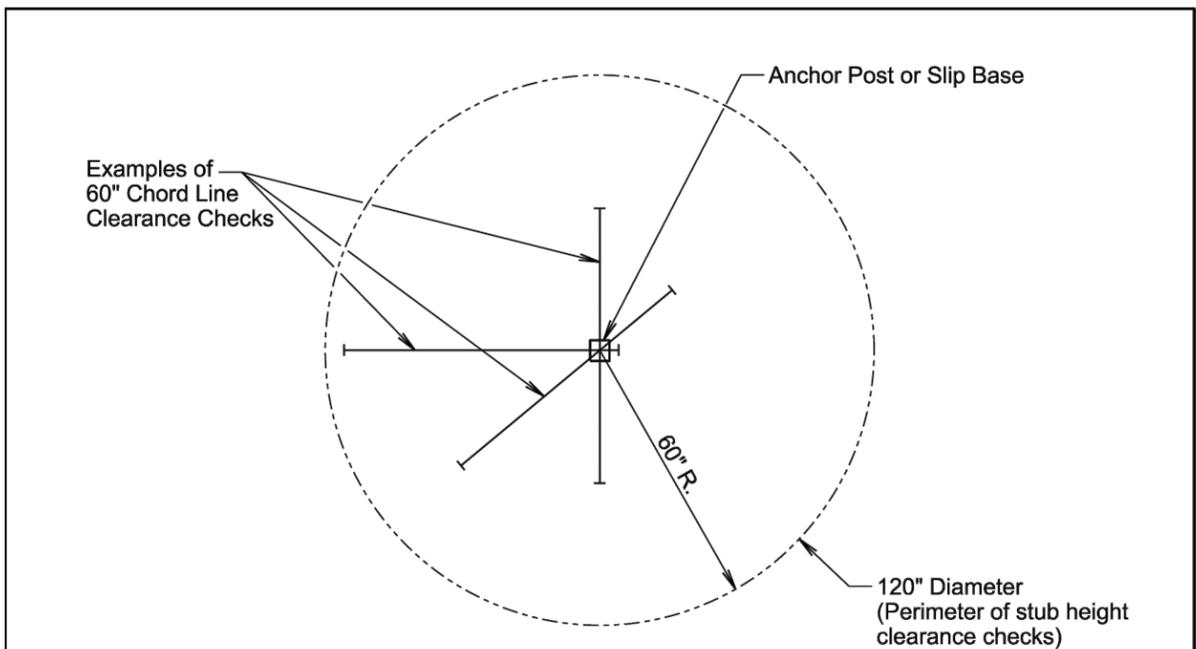
URBAN DISTRICT

RURAL DISTRICT 3 DAY MAXIMUM

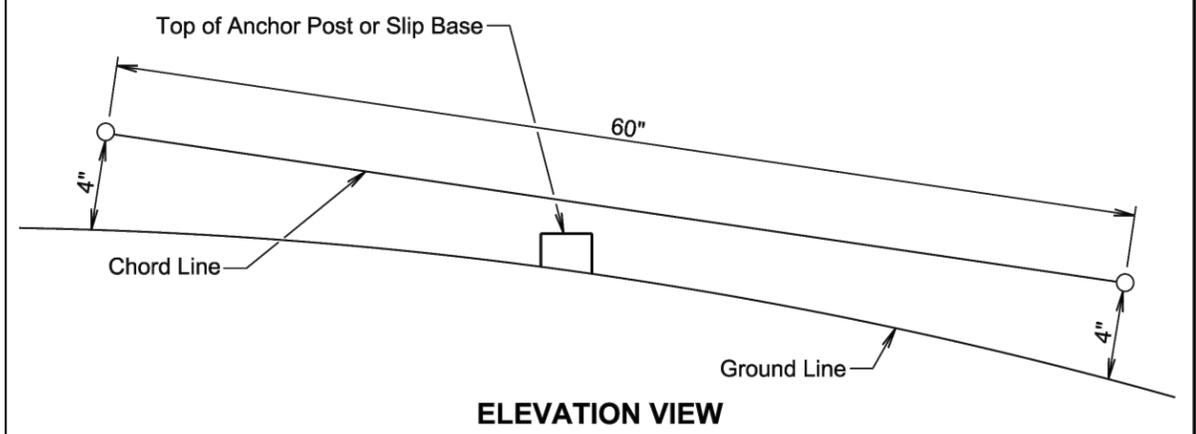
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

Published Date: 2025	S D D O T	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: 2025	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER
			634.99
			Sheet 1 of 1

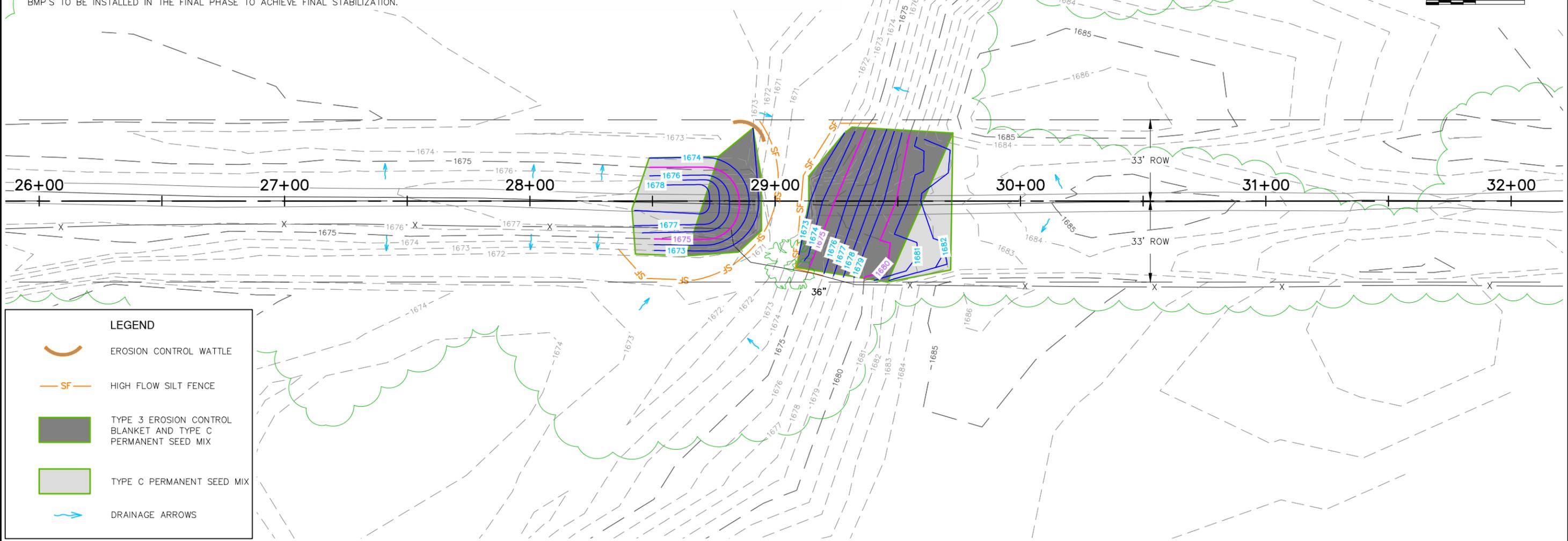
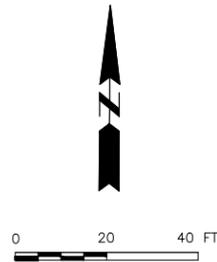


EROSION & SEDIMENT CONTROL FOR BIDDING PURPOSES ONLY

BEST MANAGEMENT PRACTICES
 BEST MANAGEMENT PRACTICES (BMP'S) ARE SPLIT INTO TWO CATEGORIES AND ARE TO BE USED THROUGHOUT CONSTRUCTION.

INITIAL PHASE
 BMP'S TO BE INSTALLED IN THE INITIAL PHASE PRIOR TO EARTH DISTURBING ACTIVITIES AND REMAIN IN PLACE FOR THE INTERMEDIATE PHASE FOR TEMPORARY STABILIZATION AND IN THE FINAL PHASE TO ACHIEVE FINAL STABILIZATION.

FINAL PHASE
 BMP'S TO BE INSTALLED IN THE FINAL PHASE TO ACHIEVE FINAL STABILIZATION.



LEGEND

- EROSION CONTROL WATTLE
- HIGH FLOW SILT FENCE
- TYPE 3 EROSION CONTROL BLANKET AND TYPE C PERMANENT SEED MIX
- TYPE C PERMANENT SEED MIX
- DRAINAGE ARROWS

12" DIAMETER WATTLE			
STATION	L/R	DIAMETER (IN)	QUANTITY (LF)
28+90.71	L	12	20
MISCELLANEOUS			20
TOTAL			40

HIGH FLOW SILT FENCE				
STATION		STATION	L/R	QUANTITY (LF)
28+93.71	TO	28+36.03	L TO R	120
29+41.14	TO	29+19.59	L TO R	91
MISCELLANEOUS				29
TOTAL				240

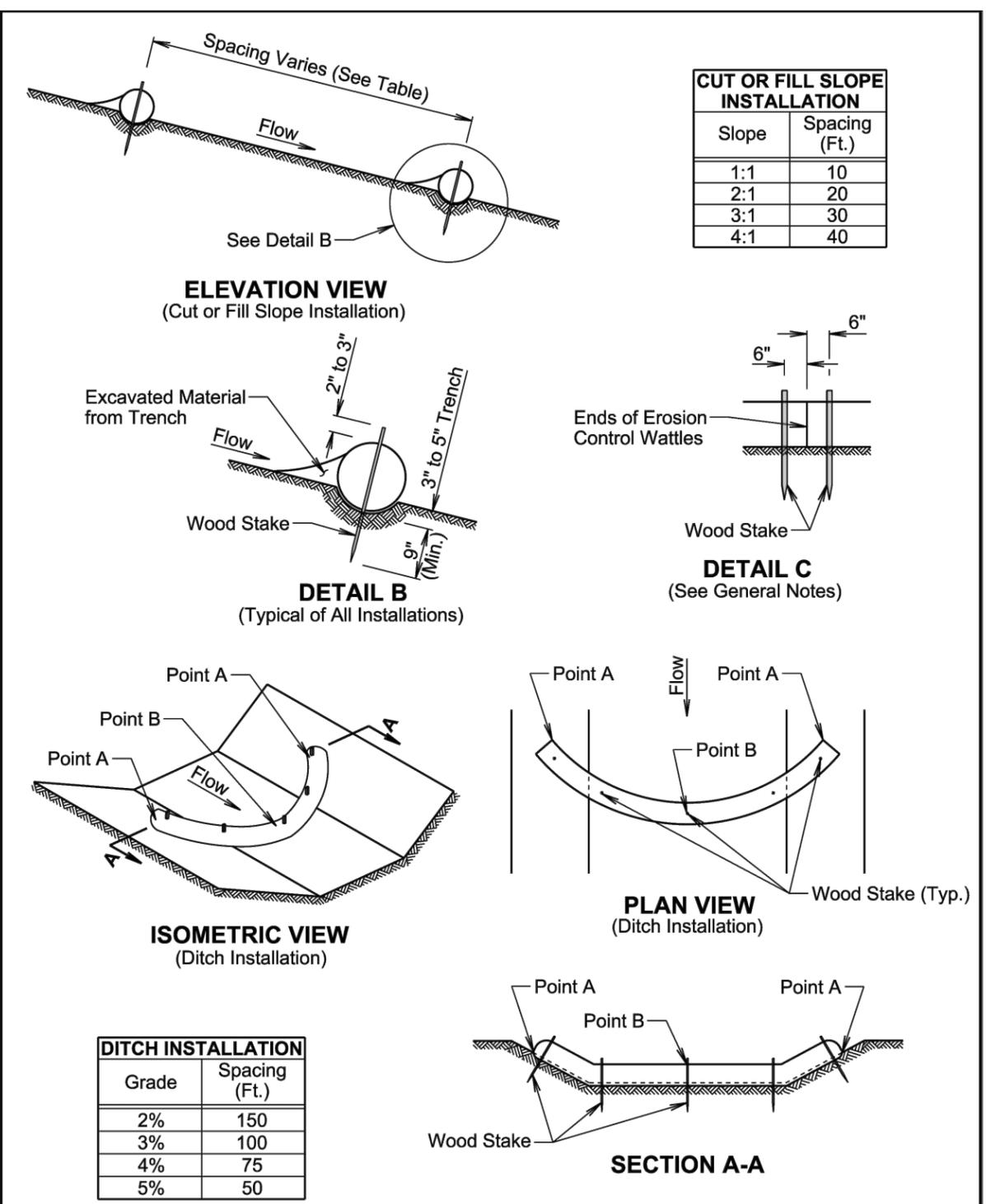
TYPE 3 EROSION CONTROL BLANET				
STATION		STATION	L/R	QUANTITY (SQ YD)
28+63.71	TO	28+91.00	R TO L	110
29+08.97	TO	29+72.40	R TO L	306
MISCELLANEOUS				84
TOTAL				500

TYPE C PERMANENT SEEDING				
STATION		STATION	L/R	QUANTITY (SQ YD)
28+43.02	TO	28+76.88	R TO L	117
29+45.80	TO	29+72.40	R TO L	79
MISCELLANEOUS				39
TOTAL				235



EROSION & SEDIMENT CONTROL FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	12	18



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

S D D O T	EROSION CONTROL WATTLE	PLATE NUMBER 734.06
		Sheet 1 of 2

Published Date: 2025

February 14, 2020

S D D O T	EROSION CONTROL WATTLE	PLATE NUMBER 734.06
		Sheet 2 of 2

Published Date: 2025

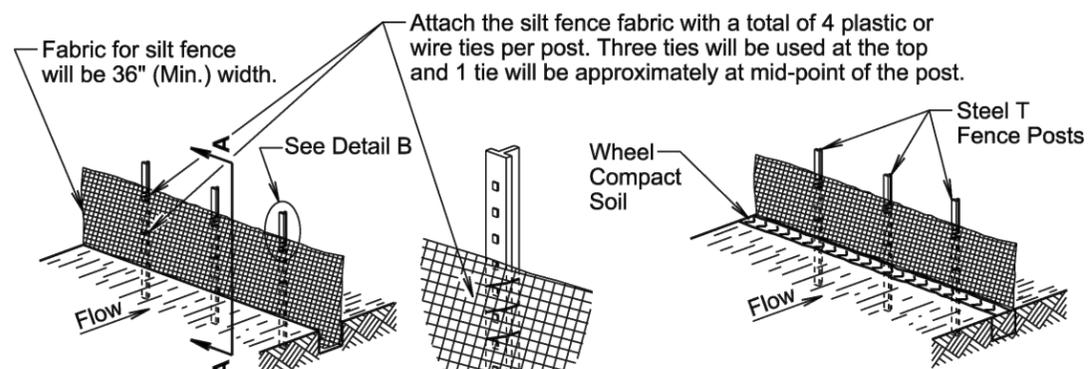


MANUAL HIGH FLOW SILT FENCE INSTALLATION



① EXCAVATE TRENCH

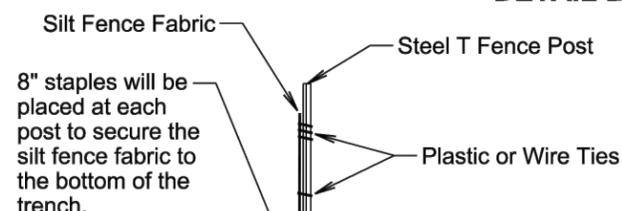
② DRIVE STEEL T FENCE POSTS



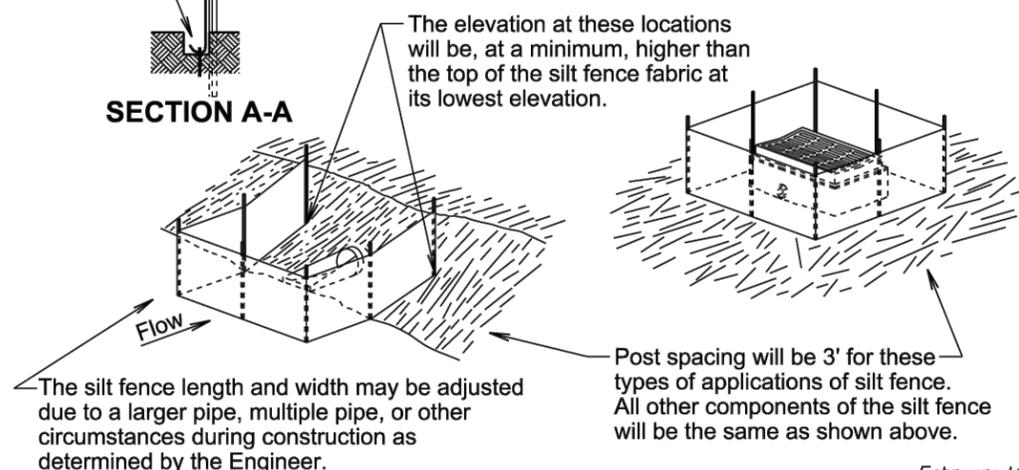
③ ATTACH SILT FENCE FABRIC

④ BACKFILL TRENCH AND WHEEL COMPACT SOIL

DETAIL B



SECTION A-A



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

Post spacing will be 3' for these types of applications of silt fence. All other components of the silt fence will be the same as shown above.

February 14, 2020

Published Date: 2025

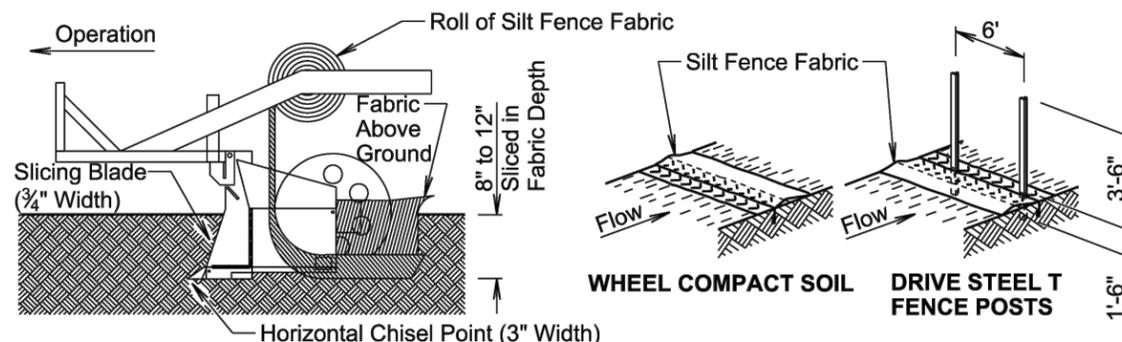
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HIGH FLOW SILT FENCE

PLATE NUMBER
734.05

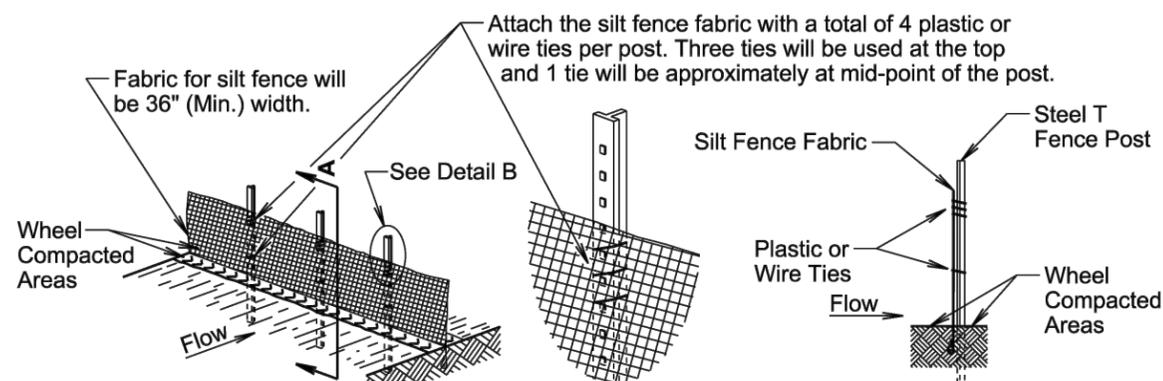
Sheet 1 of 2

MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION



① INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.

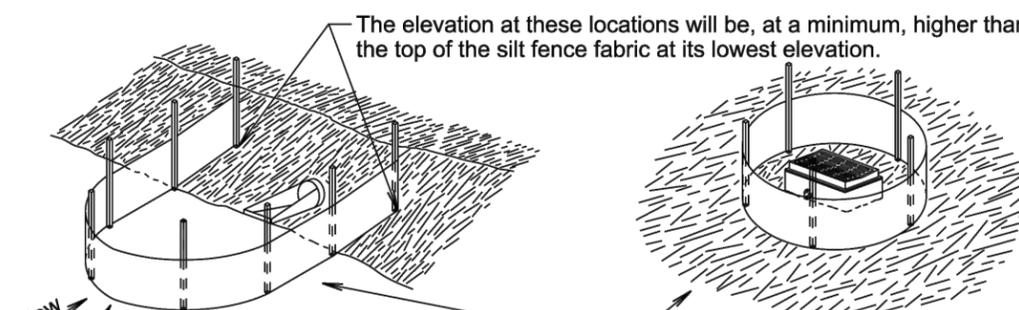
② WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.



③ ATTACH SILT FENCE FABRIC

DETAIL B

SECTION A-A



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

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

GENERAL NOTE:

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

February 14, 2020

Published Date: 2025

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HIGH FLOW SILT FENCE

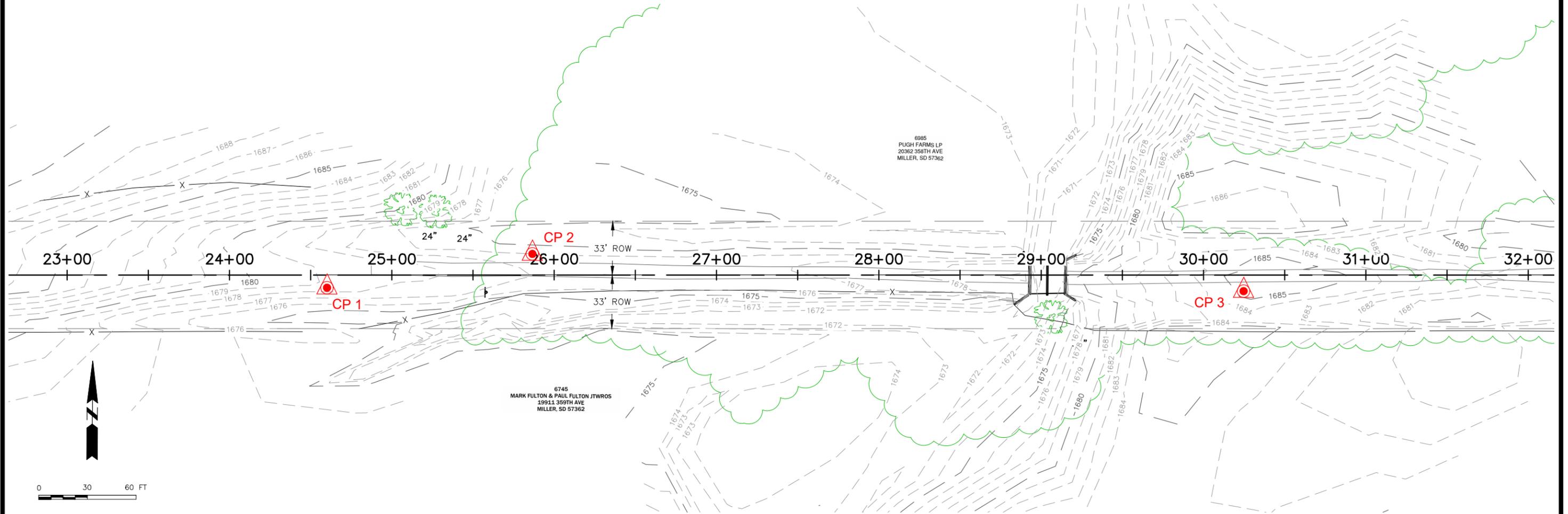
PLATE NUMBER
734.05

Sheet 2 of 2

SURVEY DATA

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	14	18



CONTROL POINTS				
Point	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION
1	234360.229	2219415.737	1678.85	CP 5BAR
2	234382.079	2219542.067	1676.36	CP 5BAR
3	234363.051	2219980.315	1685.54	CP 5BAR

ALIGNMENT DATA				
PI STATION	NORTHING	EASTING	DISTANCE (FT)	DIRECTION
10+00.00	234354.551	2217955.667		
			5273.51	N89° 29' 58"E
62+73.51	234400.557	2223228.981		



Ulteig

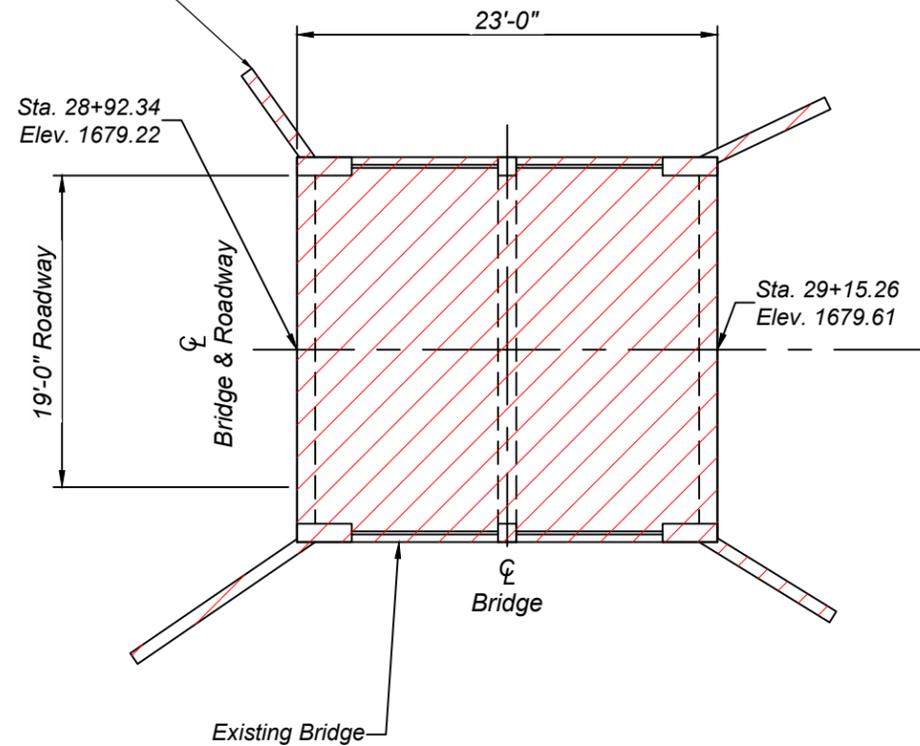
We listen. We solve.®

STRUCTURE REMOVAL

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	15	18

REMOVE STRUCTURE FROM STA. 28+92.34 TO 29+15.26

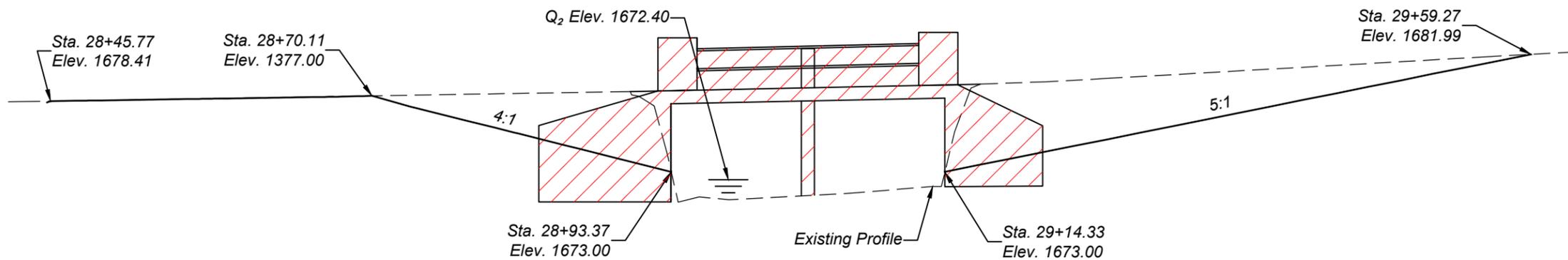


PLAN

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
250E0030	Incidental Work, Structure	1	LS

INCIDENTAL WORK, STRUCTURE

- In place is a 23' long, two-span continuous concrete bridge with a 19'-0" roadway. The Bridge deck consists of reinforced concrete. The railing consists of concrete posts with two steel pipe rails. The substructure consists of a reinforced concrete pier and reinforced concrete vertical abutments with reinforced concrete wingwalls.
- Break down and remove the existing bridge to the top of footings. All portions of the existing bridge will be removed and disposed of by the Contractor on a site obtained by the Contractor and approved by the Engineer in accordance with the Environmental Commitments found elsewhere in these plans.
- During demolition of the structure, efforts will be taken to prevent material from falling into the creek.
- The foregoing is a general description of the in-place bridge and should not be construed to be complete in all details. Before preparing the bid, it will be the responsibility of the Contractor to make a visual inspection of the structure to verify the extents of the work and materials involved.
- Costs associated with the foregoing work will be incidental to the contract lump sum price for "Incidental Work, Structure".



ELEVATION

LAYOUT FOR REMOVAL
FOR
23' CONTINUOUS CONCRETE BRIDGE
19'-0" ROADWAY 0° SKEW
REE CREEK SEC. 29/32-T112N-R68W
STA. 53+24.65 TO STA. 53+66.00 BRF-B 8030(26)
STR. NO. 30-133-290
PCN 09LY

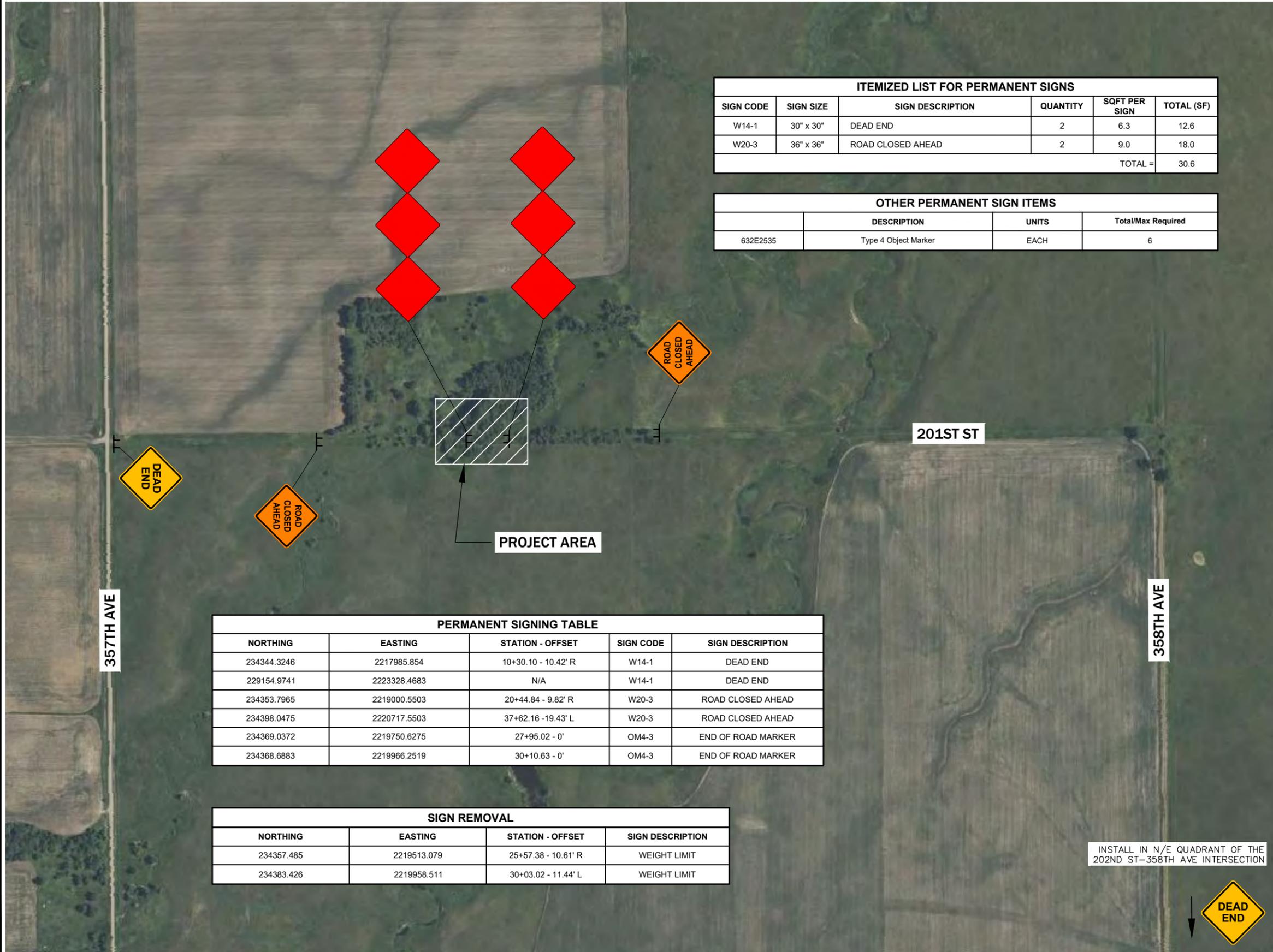
HAND COUNTY
S.D. DEPT. OF TRANSPORTATION
FEBRUARY 2025

DESIGNED BY CPS	DRAWN BY MW	CHECKED BY BS	APPROVED BRIDGE ENGINEER
--------------------	----------------	------------------	---------------------------------

PERMANENT SIGNING

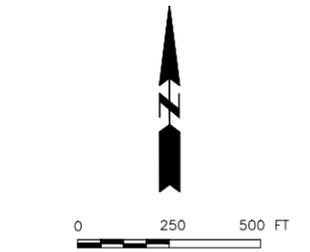
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	16	18



ITEMIZED LIST FOR PERMANENT SIGNS					
SIGN CODE	SIGN SIZE	SIGN DESCRIPTION	QUANTITY	SQFT PER SIGN	TOTAL (SF)
W14-1	30" x 30"	DEAD END	2	6.3	12.6
W20-3	36" x 36"	ROAD CLOSED AHEAD	2	9.0	18.0
TOTAL =					30.6

OTHER PERMANENT SIGN ITEMS			
	DESCRIPTION	UNITS	Total/Max Required
632E2535	Type 4 Object Marker	EACH	6



PERMANENT SIGNING TABLE				
NORTHING	EASTING	STATION - OFFSET	SIGN CODE	SIGN DESCRIPTION
234344.3246	2217985.854	10+30.10 - 10.42' R	W14-1	DEAD END
229154.9741	2223328.4683	N/A	W14-1	DEAD END
234353.7965	2219000.5503	20+44.84 - 9.82' R	W20-3	ROAD CLOSED AHEAD
234398.0475	2220717.5503	37+62.16 -19.43' L	W20-3	ROAD CLOSED AHEAD
234369.0372	2219750.6275	27+95.02 - 0'	OM4-3	END OF ROAD MARKER
234368.6883	2219966.2519	30+10.63 - 0'	OM4-3	END OF ROAD MARKER

SIGN REMOVAL			
NORTHING	EASTING	STATION - OFFSET	SIGN DESCRIPTION
234357.485	2219513.079	25+57.38 - 10.61' R	WEIGHT LIMIT
234383.426	2219958.511	30+03.02 - 11.44' L	WEIGHT LIMIT

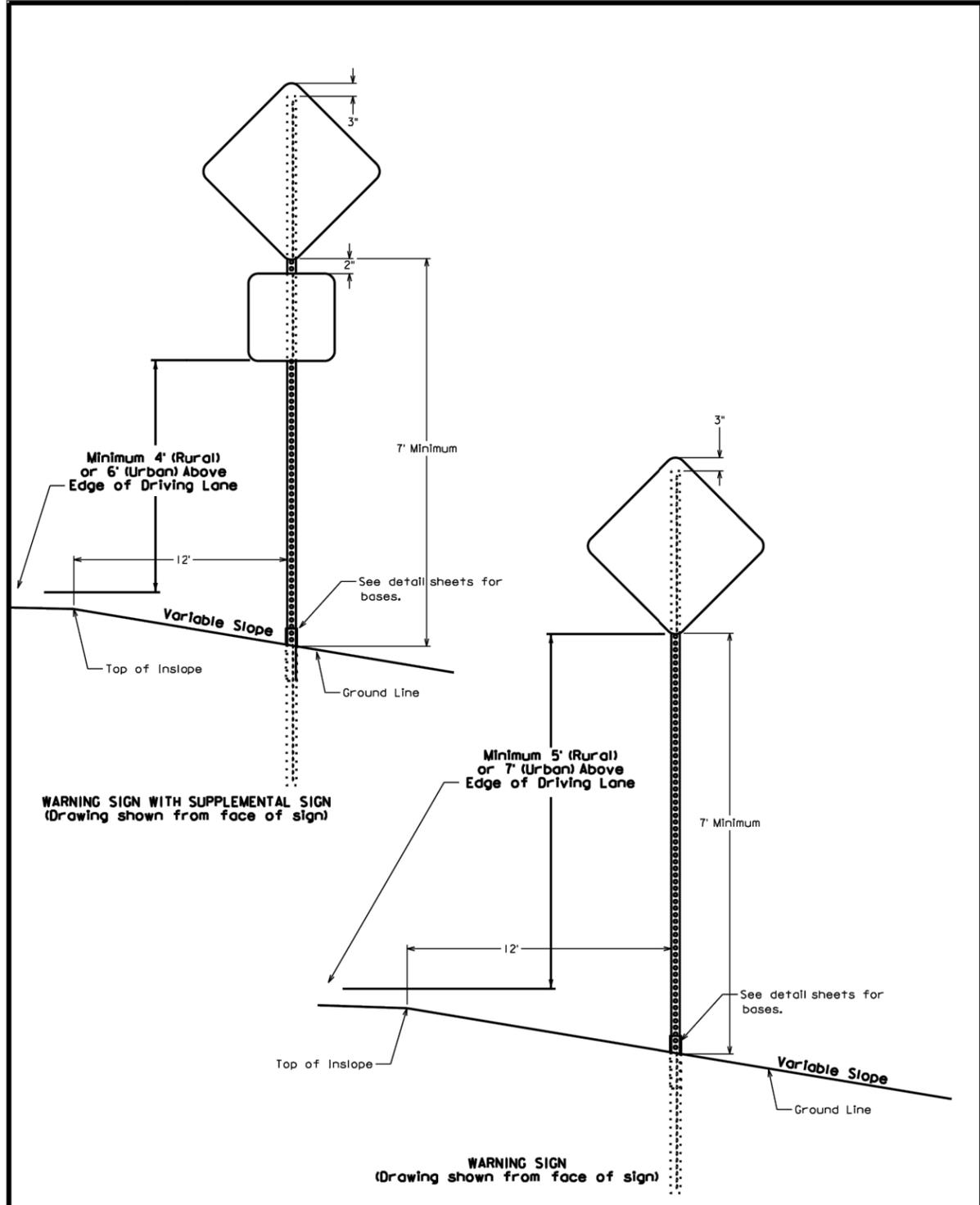
INSTALL IN N/E QUADRANT OF THE 202ND ST-358TH AVE INTERSECTION



PERMANENT SIGNING

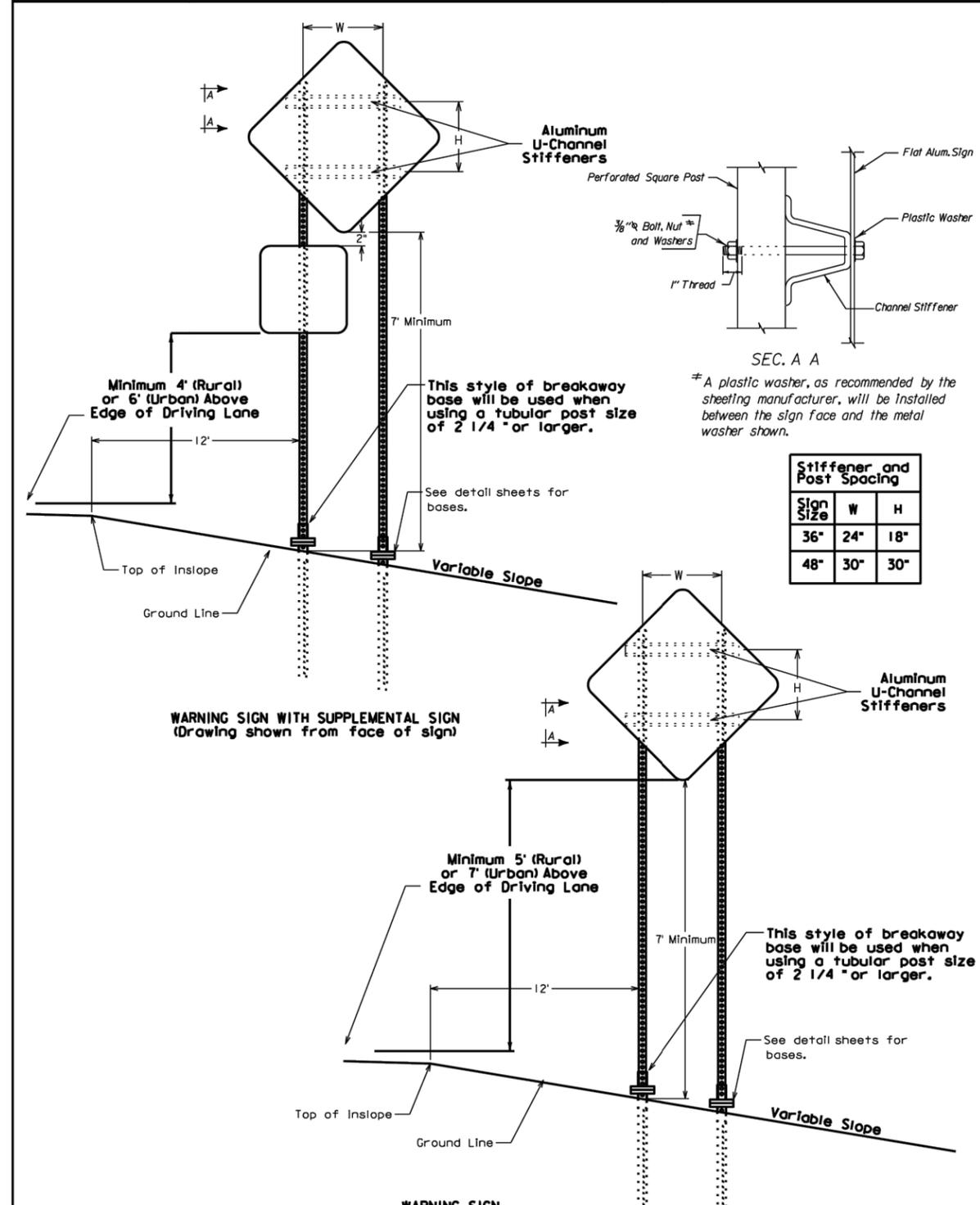
FOR BIDDING PURPOSES ONLY Revised 2/24/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	BRF-B 8030(26)	17	18



December 9, 2013

S D D O T	30" WARNING SIGNS (Typical Sign Detail)	SPECIAL DETAIL LO1
		Sheet 1 of 1



Sign Size	W	H
36"	24"	18"
48"	30"	30"

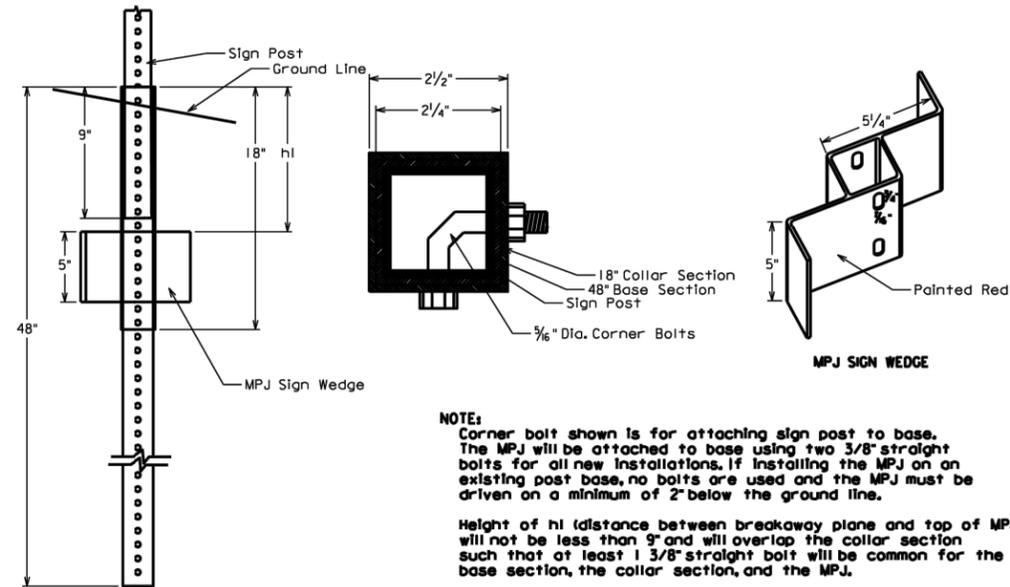
August 24, 2021

S D D O T	36" AND 48" WARNING SIGNS (Typical Sign and Stiffener Detail)	SPECIAL DETAIL LO2
		Sheet 1 of 1



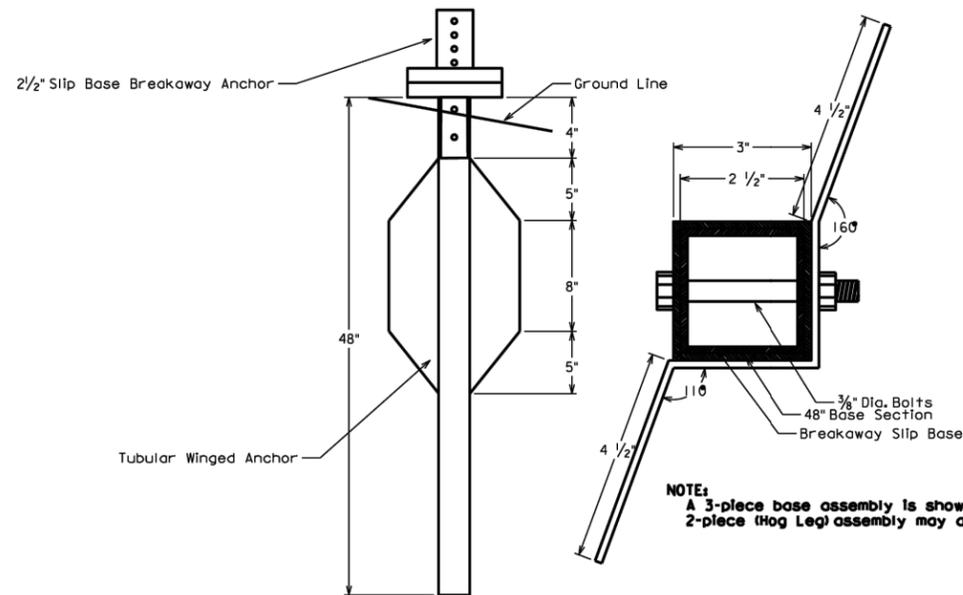
We listen. We solve.®

SIGN BASE DETAILS FOR A 2" SIGN POST



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 h1 (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 2 1/2" SIGN POST



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

August 25, 2021

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TUBULAR POST BASE DETAILS
 (Typical Soil Installation)

SPECIAL DETAIL
 L21

Sheet 1 of 1



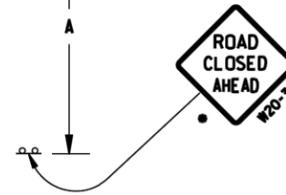
Unimproved Right-Of-Way

Posted Speed Prior to Work (M.P.H.)	Spacing of Advanced Warning Signs (Feet) (A)
0 - 30	325
35 - 40	350
45 - 50	500
55 - 65	750

Where possible, closure point should be located near a driveway or approach where a vehicle can safely maneuver to turn around.

• Advance signing may be omitted if roadway is clearly not passible from sight of crossroad.

•• If road section is newly obliterated, temporary Type 3 Barricades will be used in lieu of OM4-3 until vegetation is established.



OR



20' Max

August 25, 2021

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GUIDES FOR TRAFFIC CONTROL DEVICES
 ROAD CLOSED
 OBLITERATED OR UNIMPROVED ROADWAY

SPECIAL DETAIL
 L71

Sheet 1 of 1