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STATE OF SOUTH DAKOTA **DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED**

PROJECT BRO-B 8058(33) **SPINK COUNTY**

STRUCTURE REPLACEMENT AND APPROACH GRADING STR. NO. 58-011-010 **PCN 09A7**

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DESIGN DESIGNATION

ADT (2020)	31
ADT (2040)	42
DHV	6
d	50%
T DHV	3.6%
T ADT	8.0%
V	55 mph

STORM WATER PERMIT

T 120 N

Major Stream: Snake Creek Area Disturbed: 1.06 Acres Project Area: 2.27 Acres Latitude: N 45.2306° Longitude: W -98.6978°

Brown County 148th Street Spink County Mansfield End Project Sta. 13+00 149th Street Begin Project Sta. 7+00 Str. No. 58-011-010 Sta. 10+00 150th Street Faulk County Spink County 18

COUNTY OFFICIALS

Highway Superintendent

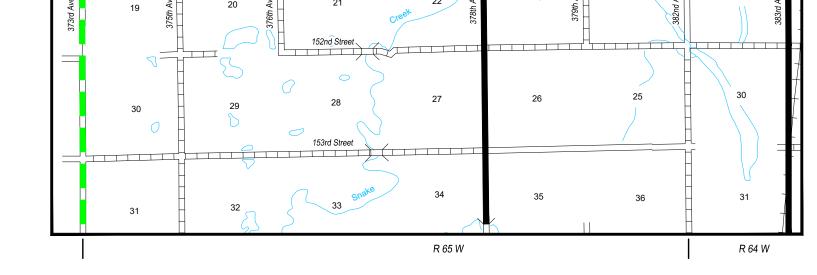
1518 E 7th Avenue Redfield, SD 57469 Phone: (605) 472-5008 Fax: (605) 472-5010

Brett Knox Brian Johnson Kevin Siebrecht Suzanne Smith



Know what's **below**. **Call** before you dig.





151st Street

September 17, 2025

Revised: 07/23/2025 (JRF

GRADING

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	0.114	Mile
009E3250	Miscellaneous Staking	0.114	Mile
009E3280	Slope Staking	0.114	Mile
009E3290	Structure Staking	1	Each
009E3301	Engineer Directed Surveying/Staking	20.0	Hour
110E1690	Remove Sediment	1.0	CuYd
110E1693	Remove Erosion Control Wattle	140	Ft
110E1700	Remove Silt Fence	600	Ft
120E0010	Unclassified Excavation	2,295	CuYd
120E0600	Contractor Furnished Borrow Excavation	1,448	CuYd
230E0010	Placing Topsoil	295	CuYd
632E2520	Type 2 Object Marker	4	Each
634E0110	Traffic Control Signs	171.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	12	Each
734E0010	Erosion Control	Lump Sum	LS
734E0154	12" Diameter Erosion Control Wattle	240	Ft
734E0165	Remove and Reset Erosion Control Wattle	60	Ft
734E0604	High Flow Silt Fence	600	Ft
734E0610	Mucking Silt Fence	42	CuYd
734E0620	Repair Silt Fence	150	Ft

STR. NO. 55-011-010 (REINFORCED CONCRETE BOX CULVERT)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
250E0030	Incidental Work, Structure	Lump Sum	LS
420E0200	Structure Excavation, Box Culvert	186	CuYd
421E0200	Box Culvert Undercut	573	CuYd
460E0120	Class A45 Concrete, Box Culvert	455.2	CuYd
480E0100	Reinforcing Steel	71,991	Lb
700E0210	Class B Riprap	453.4	Ton
831E0110	Type B Drainage Fabric	1,083	SqYd
831E0300	Reinforcement Fabric (MSE)	838	SqYd

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

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

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

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 0.038 acres of stream (includes temporary and permanent) becoming impacted.

Table of Impacted Streams

Stream Name	Station	Perm. Impact Left (Acres)	Temp. Impact Left (Acres)	Total Impact (Acres)
Snake Creek	10+00	0.19	0.19	0.38

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

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

Action Taken/Required:

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

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

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

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.

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COMMITMENT D2: SURFACE WATER DISCHARGE

The DANR General Permit for Temporary Discharge 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 cold water permanent fish life propagation waters according to the ARSD 74:51:01:45. For discharges to waters of the state classified as cold water 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 not required to be covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the Contractor will obtain the General Permit for Temporary Discharge Activities from the DANR Surface Water Program, 605-773-3351.

https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_Temp oraryDischargeNOI2018Fillable.pdf >

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

The form can be found at:

https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPA ppendixCCA2018Fillable.pdf >

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



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COMMITMENT E: STORM WATER (CONTINUED)

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 7.21 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.

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Table of U.S. Waterways to Protect

Station	Waterway	Ordinary High-Water Elevation
10+00	Snake Creek	1325.1

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

COMMITMENT M1: SECTION 4(f) PROPERTY

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

Station	Section 4(f) Property
10+00	Str. No. 58-011-010 – NRHP Eligible

Action Taken/Required:

The replacement of structure 58-011-010 will result in an Adverse Effect to historic properties. A Memorandum of Agreement was signed and MOA stipulations must be fulfilled prior to construction. The South Dakota SHPO confirmed that MOA stipulations I-III have been completed on 09/27/2024.

A programmatic Section 4(f) Evaluation for Use of Historic Bridge 58-011-010 was approved by FHWA.

The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.

COMMITMENT 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.



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COUNTY RESPONSIBILITY

Spink County will be responsible for the following at no cost to the Contractor:

- 1. Right of way and temporary and permanent easements.
- 2. Coordination of any utility adjustments.
- 3. Furnish and install final surfacing.
- 4. Furnish and install temporary and/or permanent fencing.
- 5. Furnish and install new permanent signing.
- 6. Remove silt fence in permanently seeded areas.
- 7. Wetland and stream mitigation.

GRADING OPERATIONS

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste. The estimated quantity of Water for Embankment is 33.5 MGal. No separate payment will be made for the Water for Embankment and all costs associated will be incidental to the contract unit price per cubic yard of "Unclassified Excavation".

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

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

Generally, all shallow inlet and outlet ditches as noted on the plan sheets will be cut with a 10-foot wide bottom with 5:1 backslopes. However, the Engineer may direct the Contractor to adjust the ditch width for proper alignment with the drainage structure.

Temporary fence and/or permanent fence will be placed ahead of the grading operation unless otherwise directed by the Engineer.

UTILITIES

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

James Valley Co-op Telephone Company 234 E 1st Avenue Groton, SD 57445 (605) 397-2323

Northern Electric Cooperative Inc. 39456 133rd Street Bath, SD 57427 (605) 225-0310

SHRINKAGE FACTOR

Embankment +35%.

EARTHWORK BALANCE

Exc. for RCBC Installation	1,599	CuYd	Embankment	2,483	CuYd
Excavation	81	CuYd	35% Shrinkage	869	CuYd
Other Excavation	859	CuYd	Waste	635	CuYd
Contractor Furnished Borrow Excavation	1,448	CuYd			
Total	3,987	CuYd	Total	3,987	CuYd

Other Excavation includes the sum of the quantities for the following: Structure Excavation, Box Culvert (186 CuYd) Box Culvert Undercut (573 CuYd) Excavation for Class B Riprap (100 CuYd)

These quantities are for information purposes only, compensation for these are accounted for within various bid items.

The Contractor may, at the discretion of the Engineer, use the material from Other Excavation in the inslopes and as sub-base with the condition that said material meets all requirements as set forth in the Specifications.

It is assumed (for the purposes of earthwork balance) that the Contractor will be able to use 75% of the material from Excavation, Other Excavation, and Excavation for RCBC Installation and will have to waste the remaining material at (a) site(s) provided by the Contractor and approved by the Engineer. All costs for labor, materials, and equipment necessary to waste material as well as restoration of the waste site(s) will be incidental to the contract unit price per cubic yard for "Unclassified Excavation".

TABLE OF UNCLASSIFIED EXCAVATION

Excavation		81 CuYd
Topsoil		295 CuYd
Exc. for RCBC Installation		1,599 CuYd
Gravel Surfacing		320 CuYd
	Total	2,295 CuYd

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. The Unclassified Excavation quantity will be used for final payment and the plans quantity of Topsoil and salvaged surfacing items listed in the Table of Unclassified Excavation will not be adjusted according to field measurements.

EXCAVATION FOR REINFORCED CONCRETE BOX CULVERT INSTALLATION

Included in the quantity of "Unclassified Excavation" are 1,599 cubic yards of excavation for installation of reinforced concrete box culverts.

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

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

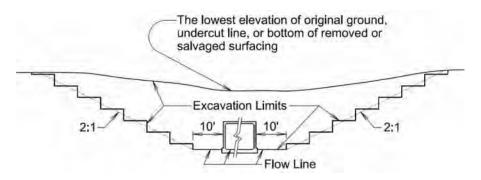


TABLE OF EXCAVATION FOR REINFORCED CONCRETE BOX CULVERT INSTALLATION

	Quantity
Station	(CuYd)
10+00	1,599
Total:	1,599

CONTRACTOR FURNISHED BORROW EXCAVATION

The Contractor will provide a suitable site for Contractor furnished borrow excavation material. The Contractor is responsible for obtaining all required permits and clearances for the borrow site. The borrow material will be approved by the Engineer.

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



PLACING TOPSOIL

The thickness will be approximately 4 inches within the right-of-way and 6 inches on temporary easements.

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

			Topsoil
Station	to	Station	(CuYd)
7+00		13+00	295
		Total:	295

EROSION CONTROL

The estimated area requiring erosion control is 19,768 square feet. All costs for the erosion control work for furnishing, placing, and maintaining erosion control including equipment, labor, seeding, and fiber reinforced matrix will be incidental to the contract lump sum price for "Erosion Control".

The limits of erosion control work will be determined by the Engineer during construction.

Mycorrhizal Inoculum

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

All seed will be inoculated by the seed supplier with a minimum of 100,000 live propagules of mycorrhizal fungi per acre. All costs of inoculating the seed will be incidental to the contract lump sum price for "Erosion Control".

The mycorrhizal inoculum will be as shown below or an approved equal:

<u>Product</u>	<u>Manufacturer</u>
MycoApply	Mycorrhizal Applications, Inc. Grants Pass, OR Phone: 1-866-476-7800 www.mycorrhizae.com
AM 120 Multi Species Blend	Reforestation Technologies Int. Gilroy, CA Phone: 1-800-784-4769 www.reforest.com
I AI RISE Prime and Max WP	Lallemand Specialties Inc

Milwaukee, WI

Phone: 1-844-590-7781 www.lallemandplantcare.com

Permanent Seeding

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

Special Permanent Seed Mixture will consist of the following:

Common Name Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Big Bluestem	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	1.5
Side oats grama	Butte, Pierre	1.0
Blue Grama	Bad River	1.1
Canada wild rye	Mandan	1.4
Slender Wheatgrass	AEC Hillcrest, First Strike, Boreal, Oracle	2.0
Annual Ryegrass		5.5
Western wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	1.4
Salty Alkaligrass	Fults, Fults II, Quill, Salty	1.2
Little Bluestem	Aldous, Itasca	0.9
Indian Grass	Holt, Tomahawk, Chief, Nebraska 54	0.6
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	1.4
	Total:	18.0

Fiber Reinforced Matrix

Fiber reinforced matrix will be applied in a separate operation following permanent seeding at locations noted in the table and at locations determined by the Engineer during construction. The application rate is 3,000 pounds per

An additional quantity of Fiber Reinforced Matrix has been added to the Estimate of Quantities for erosion control on areas determined by the Engineer during construction.

The Contractor will use a Fiber Reinforced Matrix from the approved products list, or an approved equal. The approved product list for Fiber Reinforced Matrix may be viewed at the following internet site.

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

Table of Fiber Reinforced Matrix

Station	Station Location		Quantity (Lb)
7+00 Lt. to 13+00 Lt.	7+00 Lt. to 13+00 Lt. Inslope		810
7+00 Rt. to 7+97 Rt. Inslope		0.03	90
8+15 Rt. to 13+00 Rt. Inslope		0.21	630
Additio	0.16	470	
	0.67	2000	

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EROSION 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.

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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 in highway ditch channels and as an alternative to low flow or high flow silt fence at wetland areas adjacent to the highway.

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

_	Temporary/Permanent		Diameter	Quantity		
Station	Erosion Control	Location	(Inch)	(Ft)		
7+05	Temporary	24' Rt.	12	20		
7+05	Temporary	24' Rt.	12	20		
7+81	Temporary	94' Rt.	12	20		
8+30	Temporary	95' Rt.	12	20		
9+43	Permanent	22' Rt.	12	20		
9+64	Permanent	27' Lt.	12	20		
10+35	Permanent	40' Rt.	12	20		
10+57	Permanent	29' Lt.	12	20		
12+95	Temporary	29' Rt.	12	20		
12+95	Temporary	31' Lt.	12	20		
	Additional Quantity: 12					
			Total:	240		



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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.

TABLE OF HIGH FLOW SILT FENCE

Station	Lt./Rt.	Location	Quantity (Ft)
8+41 to 8+96	Rt.	Project Limits	95
8+51 to 9+34	Lt.	Project Limits	150
10+63 to 11+50	Rt.	Project Limits	190
11+03 to 11+99	Lt.	Project Limits	120
	·	Additional Quantity:	45
		Total:	600

SEQUENCE OF OPERATIONS

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

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.

All temporary speed limit signs will have a minimum mounting height of 5 feet in rural locations, even when mounted on portable supports.

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

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

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

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

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

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

TABLE OF CONSTRUCTION STAKING

(See Special Provision for Contractor Staking)

						G	rade Staking	3				
Roadway and Description	Begin Station	End Station	Number of Lanes	Length (Ft)	Length (Mile)	Lane Factor	*Sets of Stakes	**Grade Staking Quantity (Mile)	Miscellaneous Staking Quantity (Mile)	Slope Staking Quantity (Mile)	Final Cross Section Survey Quantity (Mile)	Structure Staking Quantity (Each)
149th Street (2 Lanes Gravel Surface)	7+00	13+00	2	600	0.114	1	1	0.114	0.114	0.114	0.114	
Str. 58-011-010 (5 – 12' x 12' Box Culvert)	9+54	10+46										1
							Totals:	0.114	0.114	0.114	0.114	1

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



STORMWATER POLLUTION PREVENTION PLAN CHECKLIST

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

5.3 (2): STAFF TRAINING/SWPPP IMPLEMENTATION

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

5.3 (3): DESCRIPTION OF CONSTRUCTION ACTIVITIES

- > 5.3 (3a): Project Limits (See Title Sheet)
- > 5.3 (3a): Project Description (See Title Sheet)
- > 5.3 (4): Site Map(s) (See Title Sheet and Plans)
- > Major Soil Disturbing Activities (check all that apply)
 - Clearing and grubbing
 - ⊠Excavation/borrow
 - ⊠Grading and shaping
 - ⊠Filling
 - Other (describe):
- > 5.3 (3b): Total Project Area 2.27 Acres
- > 5.3 (3b): Total Area to be Disturbed 1.06 Acres
- > 5.3 (3c): Maximum Area Disturbed at One Time 1.06 Acres
- > 5.3 (3d): Existing Vegetative Cover (%) 75
- > 5.3 (3d): Description of Vegetative Cover Herbaceous Species
- 5.3 (3e): Soil Properties: AASHTO Soil Classification A-6, A-4, A-7-6, & A-2-4
- > 5.3 (3f): Name of Receiving Water Body/Bodies Snake Creek
- > 5.3 (3g): Location of Construction Support Activity Areas N/A

5.3 (3h): ORDER OF CONSTRUCTION ACTIVITIES

The Contractor will enter the Estimated Start Date.

Description	Estimated Start Date
Install perimeter protection where runoff may exit site.	
Install perimeter protection around stockpiles.	
Install channel and ditch bottom protection.	
Remove and stockpile topsoil.	
Stabilize disturbed areas.	
Final grading.	
Final paving.	
Removal of protection devices.	
Reseed areas disturbed by removal activities.	

5.3 (5): DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES

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

Perimeter Controls (See Detail Plan Sheets)

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

Structural Erosion and Sediment Controls

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

Dust Controls

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

Dewatering BMPs

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

Stabilization Practices (See Detail Plan Sheets)

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

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

Wetland Avoidance

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes \boxtimes No \square 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.

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- 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 ½ 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.

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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).

	□ Detergents
	☐ Paints
	⊠ Metals
	☐ Bituminous Materials
	□ Petroleum Based Products
	☑ Diesel Exhaust Fluid
	☐ Cleaning Solvents
	⊠ Wood
	⊠ Cure
>	Texture
>	Chemical Fertilizers
	Other:

5.3 (9): CONSTRUCTION SITE POLLUTANTS

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.

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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	

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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:			
Er	Erosion Control Supervisor				

Erosion Control Supervisor		
• Name:		-
Address:		_
•		_
• City:	State:	Zip:
Office Phone:	Field:	
Cell Phone:	Fax:	
SDDOT Project Engineer		
■ Name:		

•	City:	State:	Zip:
•	Office Phone:	Field:	

Business Address:

Job Office Location:

> SDDANR Contact Spill Reporting

Business Hours Monday-Friday (605) 773-3296

Cell Phone:
Fax:

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
- 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

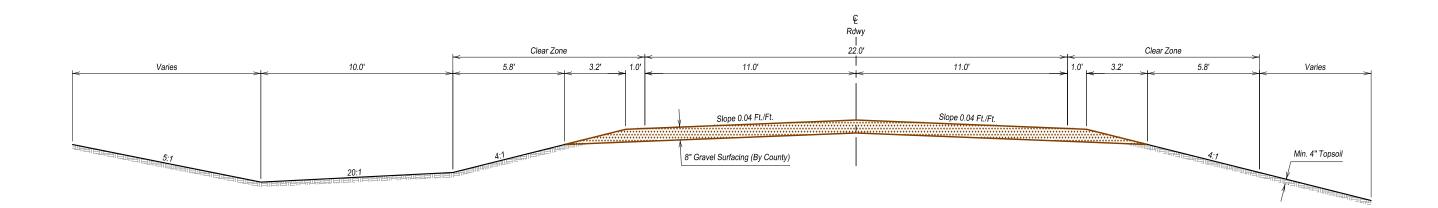
If there are multiple operators at the site, the Contractor's Erosion Control Supervisor must notify each operator that may be impacted by the change to the SWPPP within 24 hours.

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.

TYPICAL GRADING SECTION Sta. 7+50 to Sta. 12+50

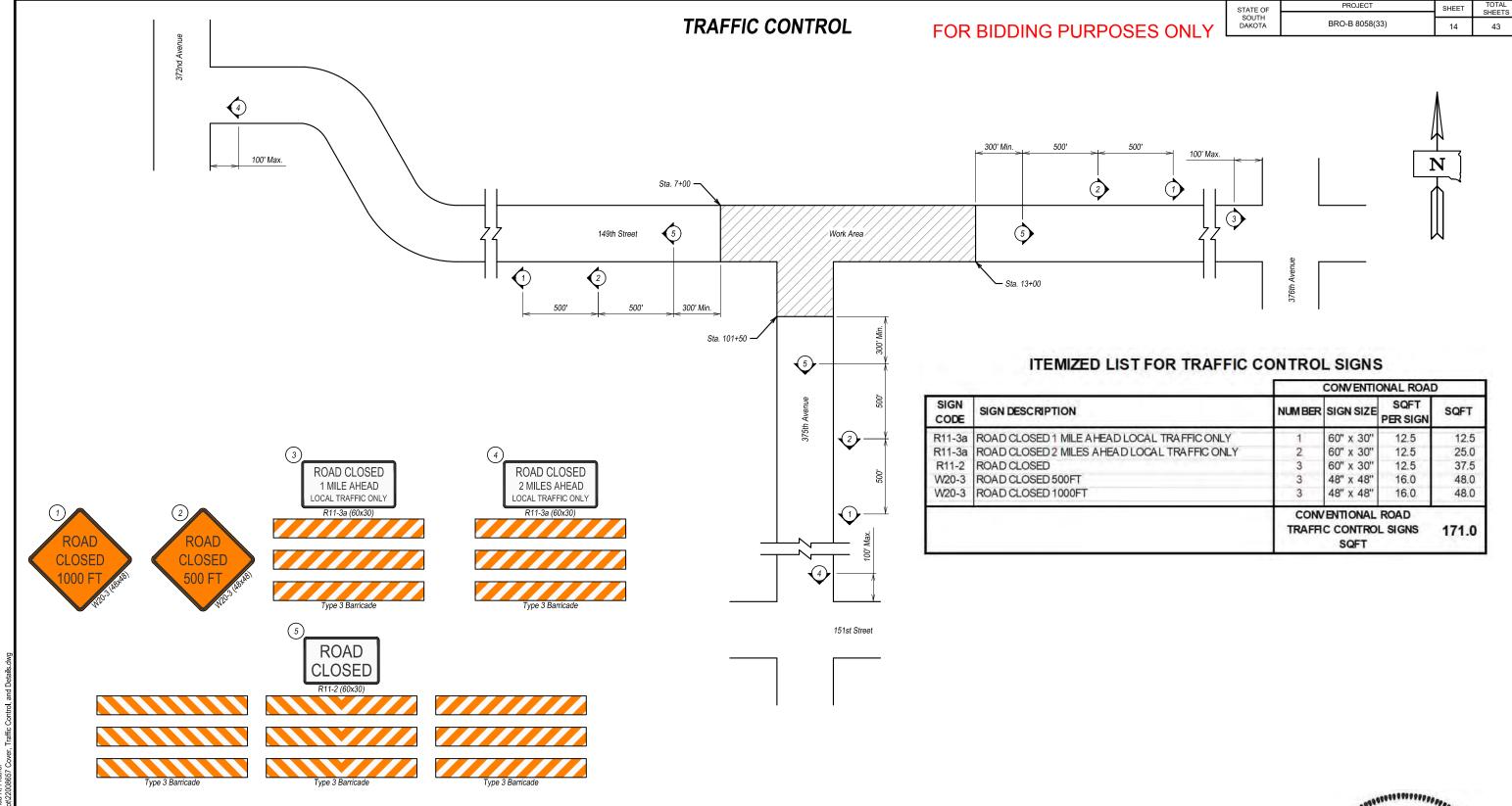
FOR BIDDING PURPOSES ONLY

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	BRO-B 8058(33)	13	43





NOTES:
Sta. 7+00 to Sta. 7+50 transition existing roadway section (roadway width, shoulder, and ditch) to typical roadway section.
Sta. 9+54 to Sta. 10+46 transition roadway in-slope around structure.
Sta. 12+50 to Sta. 13+00 transition typical roadway section to existing roadway section (roadway width, shoulder, and ditch).



n: 7/16/25 3:12:31 PM Plotted by: Joshua R. Prather Prather Prath Projects (2022) 2008657 (2012) Projects (201

LEGEND

FOR BIDDING PURPOSES ONLY

TATE OF	PROJECT	SHEET	TOTAL
			SHEETS
SOUTH DAKOTA	BRO-B 8058(33)	15	43

CONTROL LEGEND	
Benchmark	•
Control Point	

SANITARY SEWER LEGEND	
Sanitary Manhole	©
Sewer Cleanout	0
Unknown Manhole	?
Force Main	FM
Sanitary Sewer	—(—(—

STORM SEWER LEGEND	
Storm Inlet	
Storm Double Inlet	
Storm Manhole	0
Flared End Section	\triangleleft
Downspout - Above Ground	AG
Downspout - Underground	UG
Storm Sewer	
Pipe Underdrain	

WATER LEGEND	
Curb Stop	₩
Fire Hydrant	X
Post Indicator Valve	PIV
Sprinkler Head	\$
Sprinkler Box	V
Water Meter	W
Water Valve	\bowtie
Water Well	(W)
Underground Water	

COMMUNICATIONS LEGEND		
Fiber Optic Cable	— FOC—— FOC——	
Telephone Manhole	Ī	
Telephone Pedestal	T	
Telephone Pole	-0-	
Telephone Line	—т——т—	
Cable Television Pedestal	C	
Television Line	TV	

GAS LEGEND

Gas Valve

G ⊗

GENERIC UTIL	ITY LEGEND
Utility Manhole	0
Utility Marker	\Diamond
Handhole (Single/Double)	ННН

ELECTRIC LEGEND	
Air Conditioner/Cooling Unit	A
Guy Pole	-(1)
Guy Wire	(
Light Pole	¤
Vapor Light	\$
Electric Manhole	(E)
Electric Pedestal/Transformer	E
Electric Meter	E
Power Pole	-0-
Power Pole with Light	ф≕⋩
Power Pole with Meter	吟
Junction Box	
Traffic Signal	
Traffic Cantilever	0
Traffic Signal Controller	
Overhead Electric	— OE—— OE——
Underground Electric	—Е——Е——

FENCING/POST LEGEND	
Post/Bollard	₽
Wire Fence	
Chain Link Fence	
Woven Wire Fence	
Guardrail	

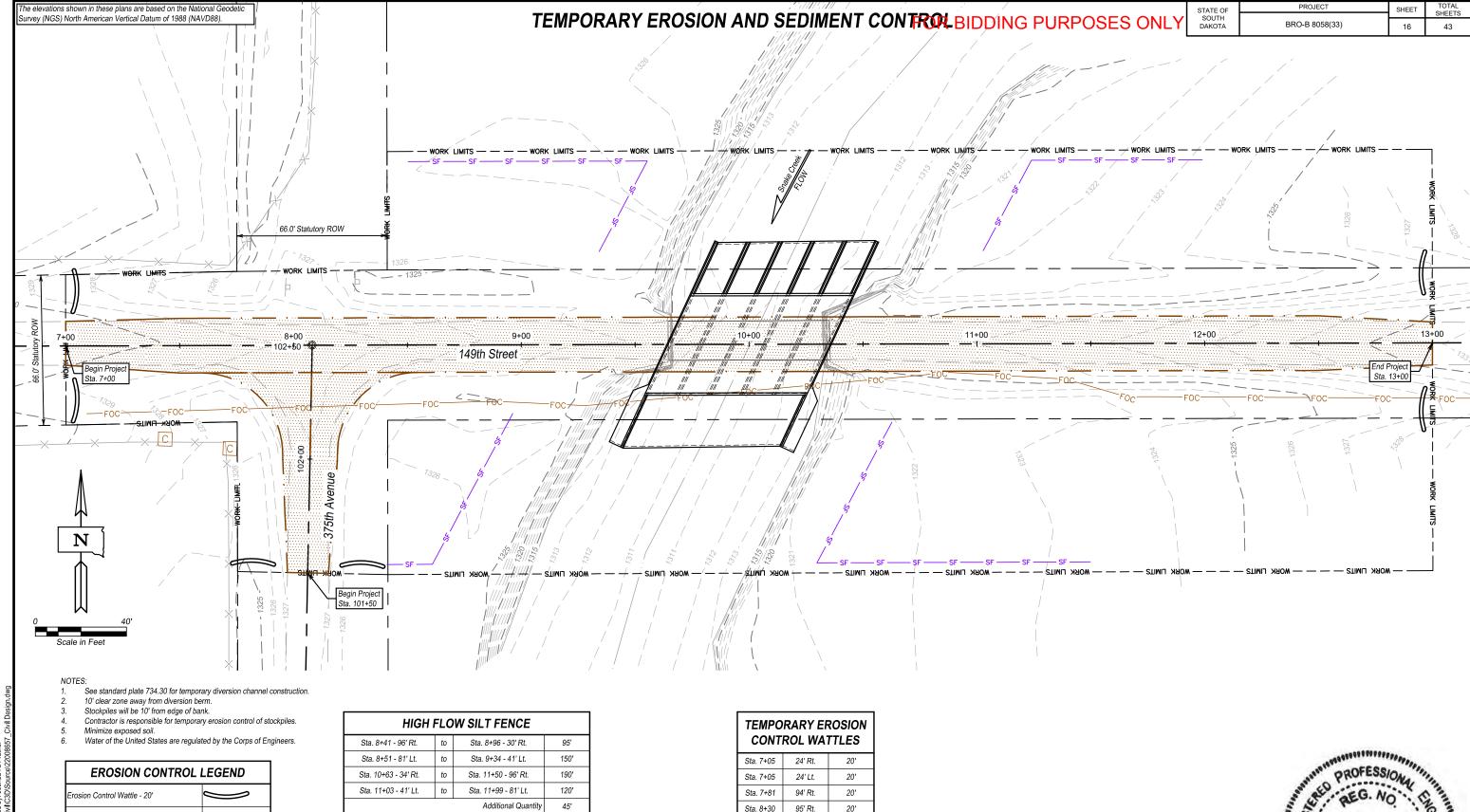
SIGN/PARK LEGEND					
Mail Box					
Single Post Sign					
Double Post Sign					
Flagpole	~				
ADA Stall	<u>E</u>				

VEGETATION LEGEND						
Bush	£.,}					
Coniferous Tree						
Deciduous Tree	\bigcirc					
Tree Stump	Ø.					
Edge of Woods	.~~~					
Clear and Grub Tree	X					

EROSION CONTROL LEGEND							
ber Reinforced Matrix							
rosion Control Wattles							
iprap	50505050505050505050505050505050505050						
ilt Curtain							
ilt Fence							
emporary Diversion Channel							

BOUNDARY					
Found Corner	•				
Set Corner	0				
Section Line	·				
Quarter Line	· ·				
16th Line	· · ·				
32nd Line	· · · ·				
Easement Line					
Right of Way Line					





Sta. 8+30

Sta. 12+95 Sta. 12+95

Additional Quantity

Total

600'

95' Rt.

29' Rt.

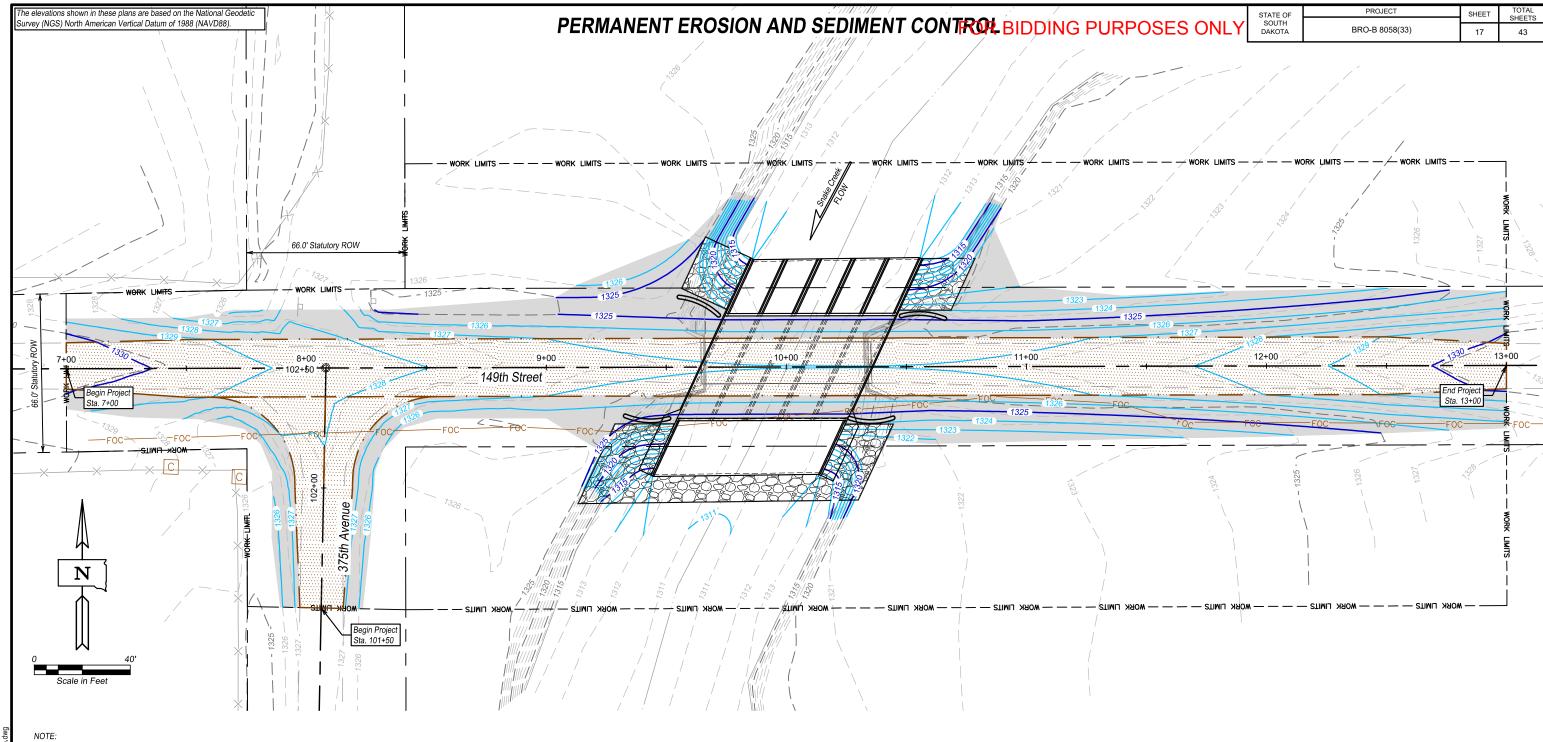
31' Lt.

20'

20'

20' 140'

High Flow Silt Fence



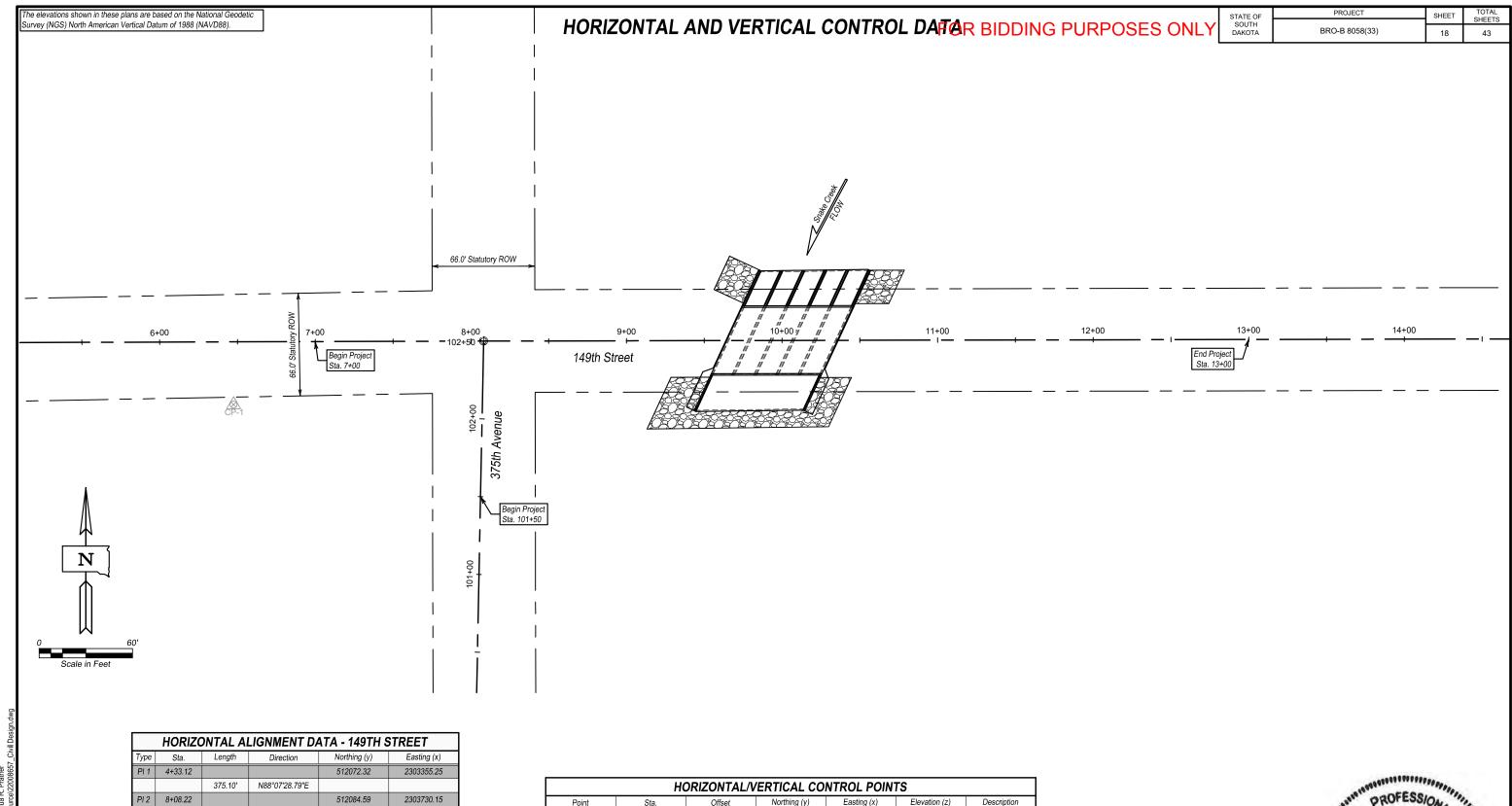
- Stabilization measures must begin within 24 hours of when earth disturbing activities have ceased.
 Permanent Erosion and Sediment Control subject to change based on water levels during construction.

EROSION CONTROL LEGEND						
Erosion Control Wattle - 20'						
Class B Riprap)					
Fiber Reinforced Matrix						

FIBER REINFORCED MATRIX							
Sta. 7+00 Lt.	to	Sta. 13+00 Lt.	0.27 Acres	810 Lbs.			
Sta. 7+00 Rt.	to	Sta. 7+97 Rt.	0.03 Acres	90 Lbs.			
Sta. 8+15 Rt.	to	Sta. 13+00 Rt.	0.21 Acres	630 Lbs.			
		Additional Quantity	0.16 Acres	470 Lbs.			
		Total	0.67 Acres	2000 Lbs.			

	NENT ER ROL WA	
Sta. 9+43	22' Rt.	20'
Sta. 9+64	27' Lt.	20'
Sta. 10+35	23' Rt.	20'
Sta. 10+57	22' Lt.	20'
Addi	20'	
	Total	100'





	HORIZONTAL ALIGNMENT DATA - 375TH AVENUE							
Гуре	Sta.	Length	Direction	Northing (y)	Easting (x)			
PI 1	100+00.00			511834.60	2303732.61			
		250.00'	N00°33'51.48"W					
PI 2	102+50.00			512084.59	2303730.15			

512169.07

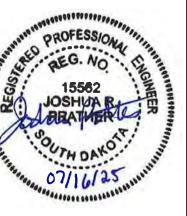
2306387.61

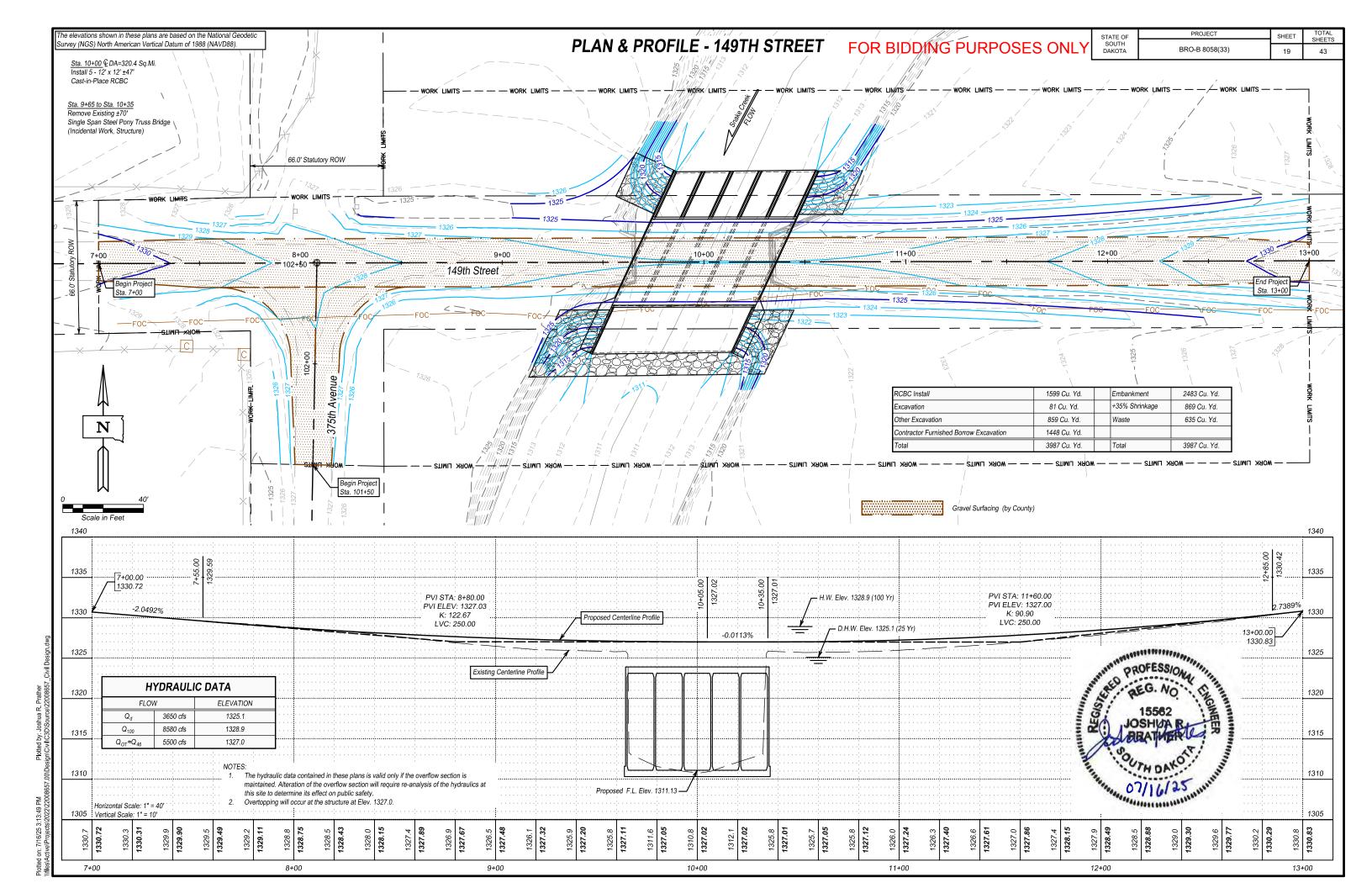
2658.80' N88°10'45.41"E

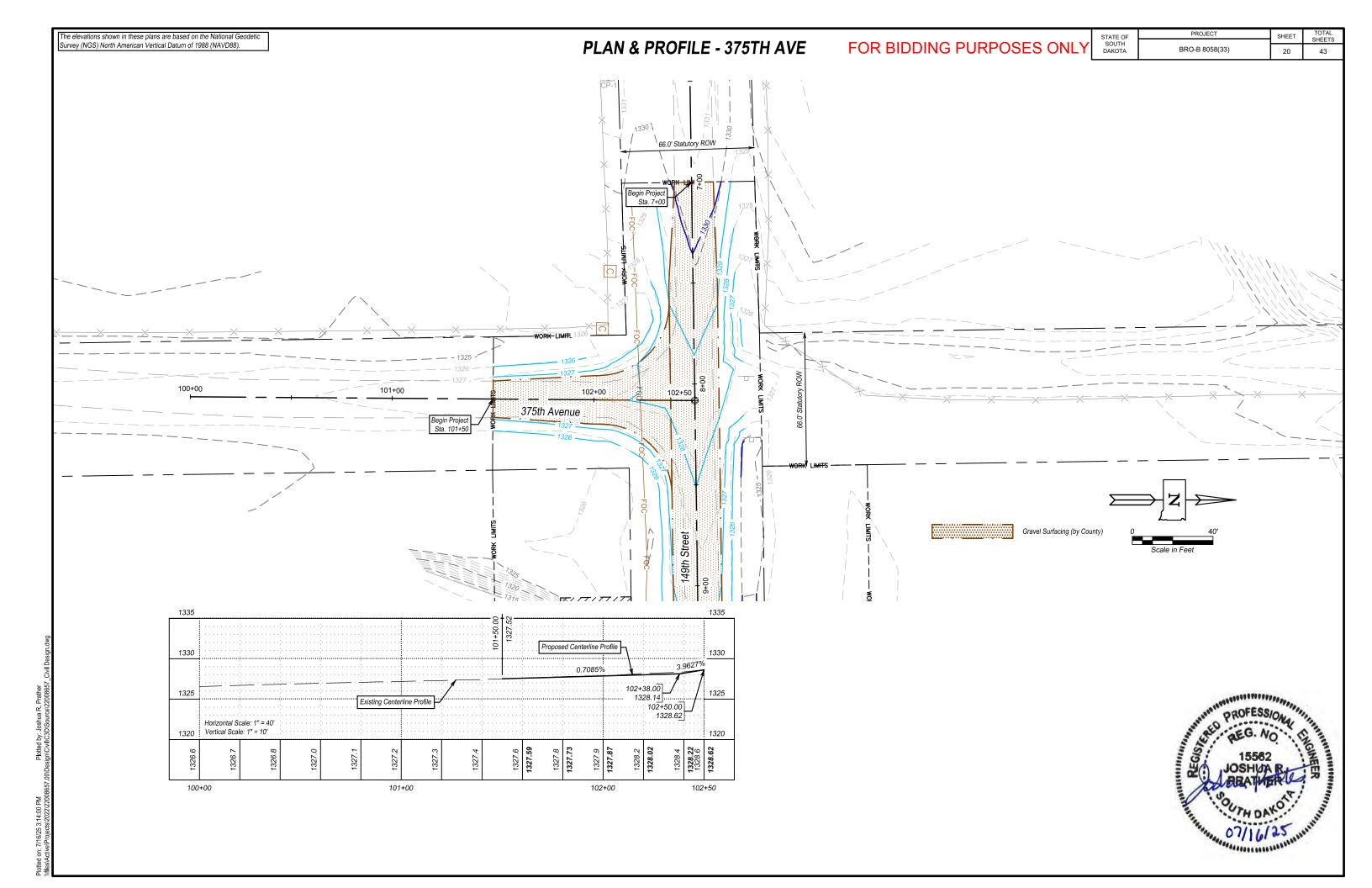
PI 3 34+67.02

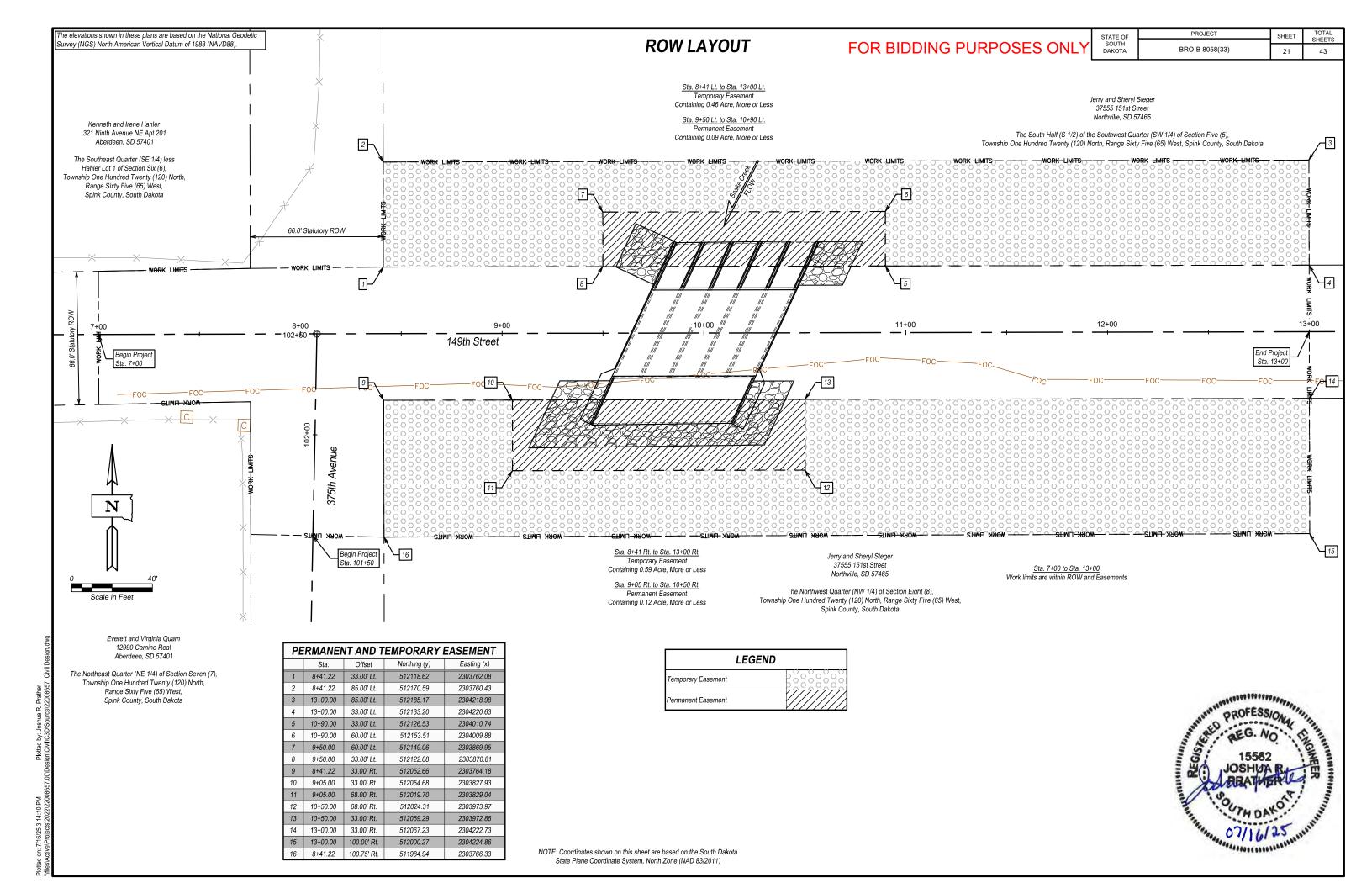
HORIZONTAL/VERTICAL CONTROL POINTS							
	Point	Sta.	Offset	Northing (y)	Easting (x)	Elevation (z)	Description
	1	6+47.45	40.39' R	512038.96	2303570.78	1331.44	5/8" Rebar

NOTE: Coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System, North Zone (NAD 83/2011)



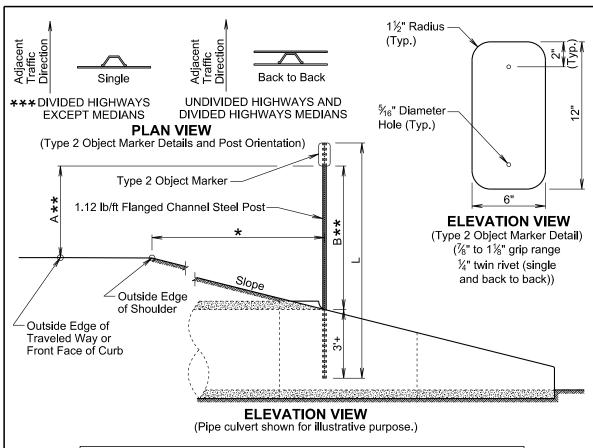






FOR BIDDING PURPOSES ONLY

PROJECT TOTAL SHEETS STATE OF SHEET SOUTH DAKOTA BRO-B 8058(33) 22 43



	TYPE 2 OBJECT MARKER POST LENGTHS									
OFFS (*		1'	2'	3'	4'	5'	6'	7'	8'	Greater Than 8'
		POST LENGTH (L)								
	3.1	8'-6"	8'-9"	9'-3"	9'-6"	9'-9"	10'-3"	10'-6"	10'-9"	8'-0"
SLOPE	4.1	8'-6"	8'-9"	9'-0"	9'-3"	9'-9"	9'-9"	10'-0"	10'-3"	8'-0"
SLC	5.1	8'-3"	8'-6"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	9'-9"	8'-0"
	6.1	8'-3"	8'-6"	8'-9"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	8'-0"

GENERAL NOTES:

*** The type 2 object marker may be installed back to back when specified in the plans.

S D

D O T

Post Length L was calculated based on a shoulder width of 6 feet at a crosslope of 4 percent and L was rounded up to the nearest 3 inches.

★★ Dimension A is 4 feet when the Offset ★ is 8 feet and less. Dimension B is 4 feet when Offset ★ is greater

The type 2 object marker and the 1.12 lb/ft flanged channel steel post will be in conformance with Specifications Section 982.2 J.

Payment for the type 2 object marker will be in conformance with Specification Section 632.5 B.

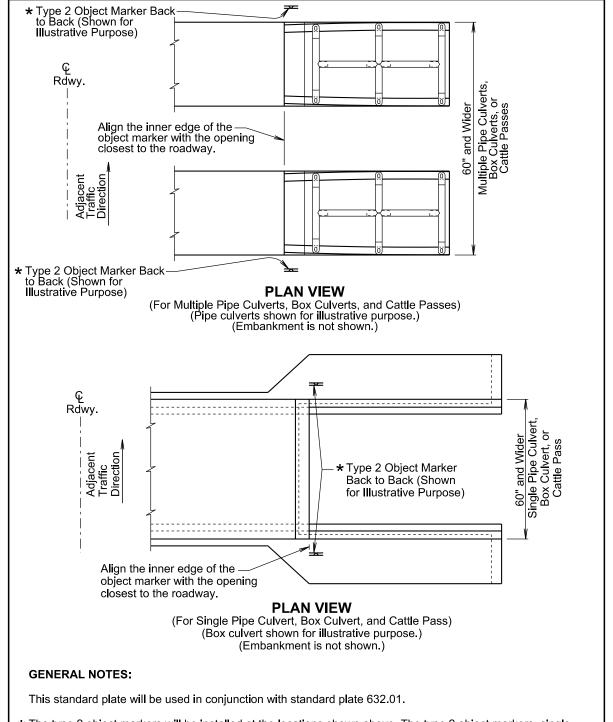
December 23, 2019

Published Date: 2026

TYPE 2 OBJECT MARKER (DIRECT DRIVE)

PLATE NUMBER 632.01

Sheet I of I



* The type 2 object markers will be installed at the locations shown above. The type 2 object markers, single faced or back to back, will be as specified in the plans.

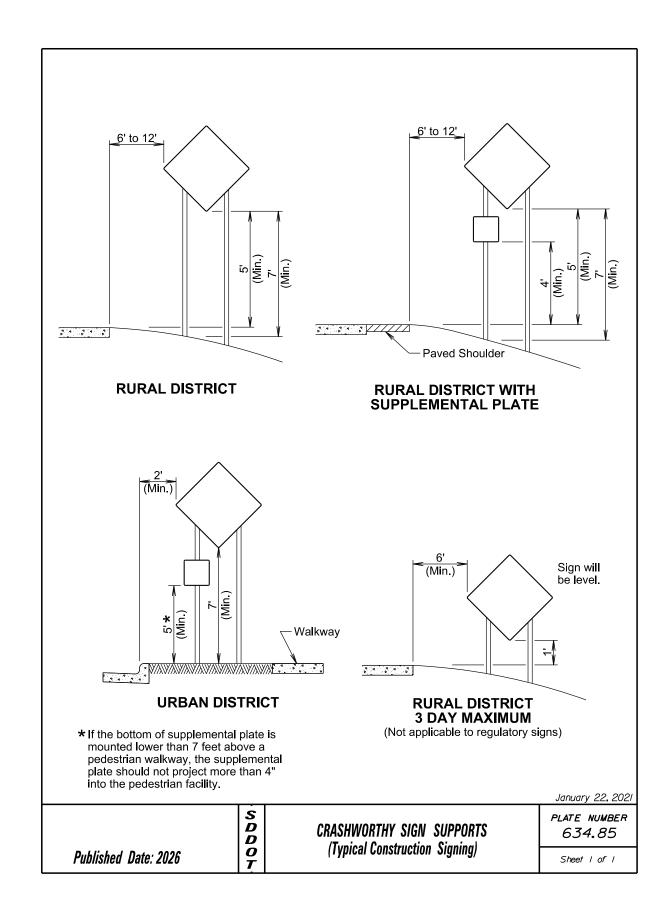
December 23, 2019

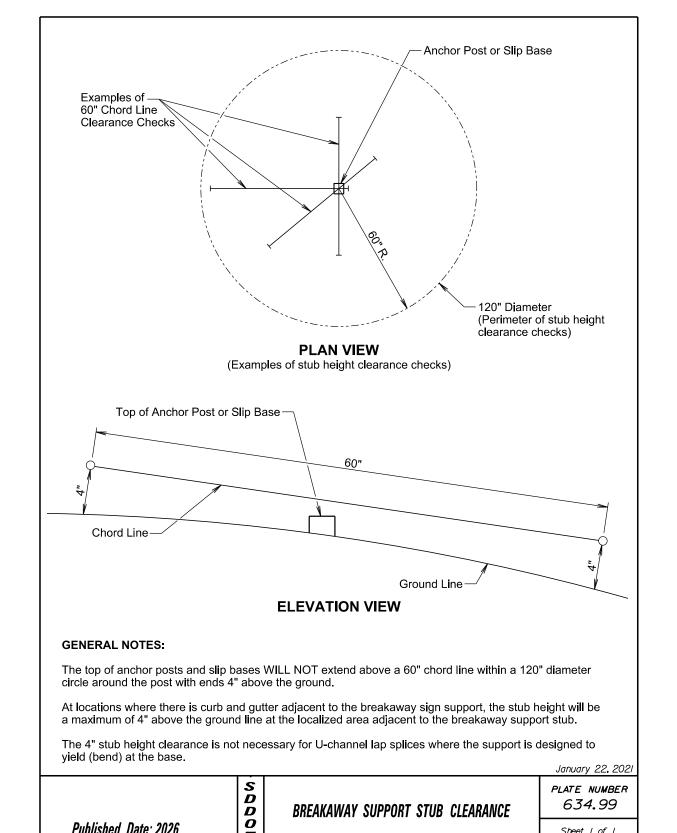
S D TYPE 2 OBJECT MARKER AT PIPE CULVERTS, BOX CULVERTS, AND CATTLE PASSES D ō Published Date: 2026 (60" and Greater Overall Width)

PLATE NUMBER 632.04

Sheet I of I

Sheet I of I

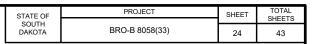


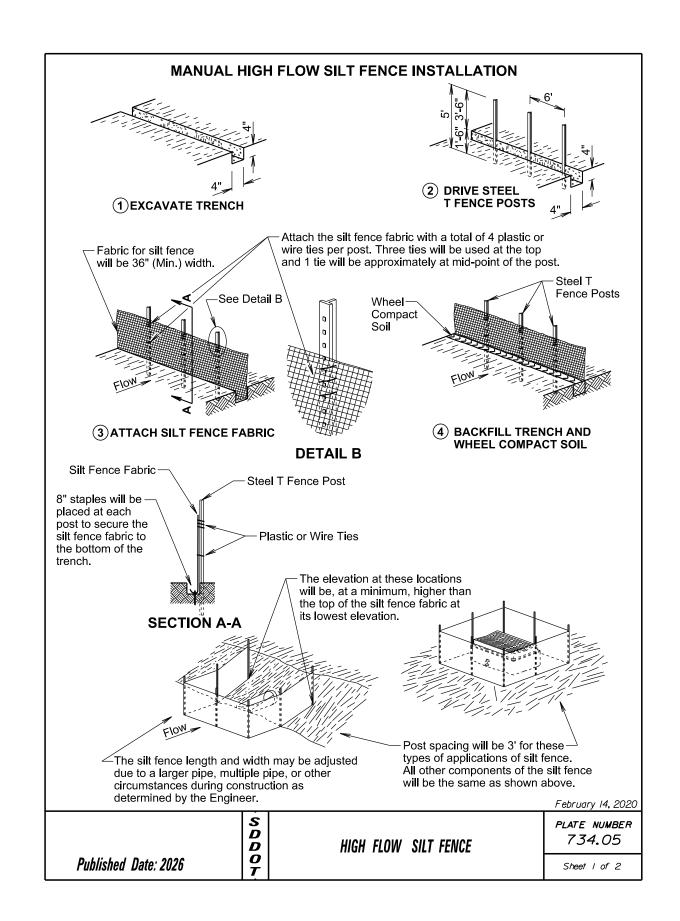


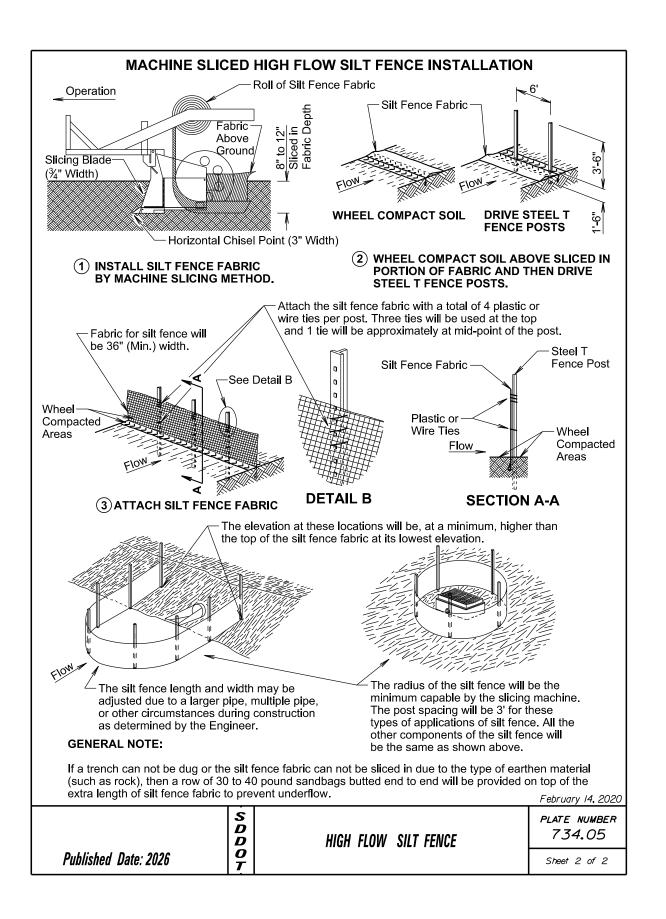
BREAKAWAY SUPPORT STUB CLEARANCE

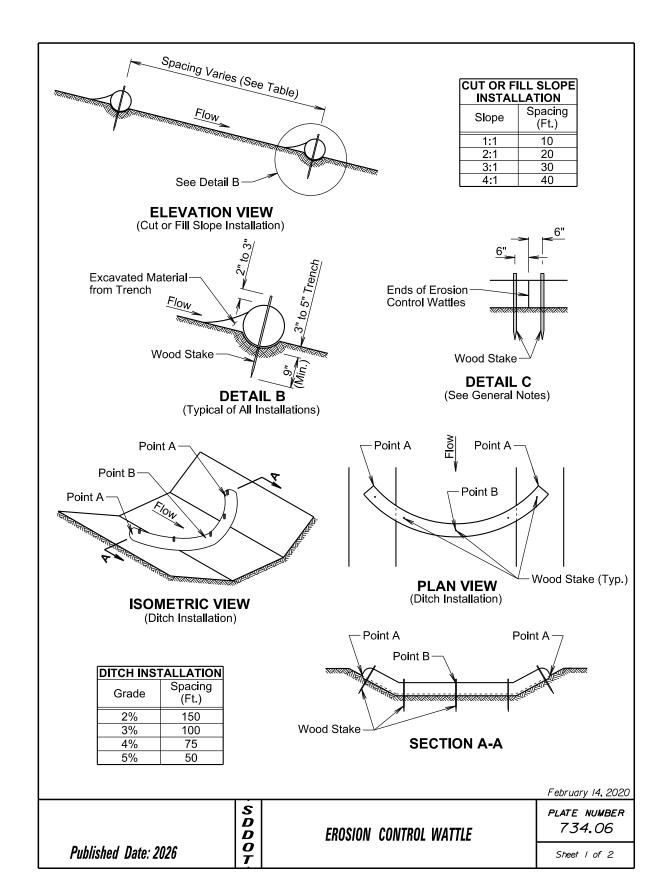
Published Date: 2026

FOR BIDDING PURPOSES ONLY









GENERAL NOTES:

Published Date: 2026

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.

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 Érosion Control Wattle".

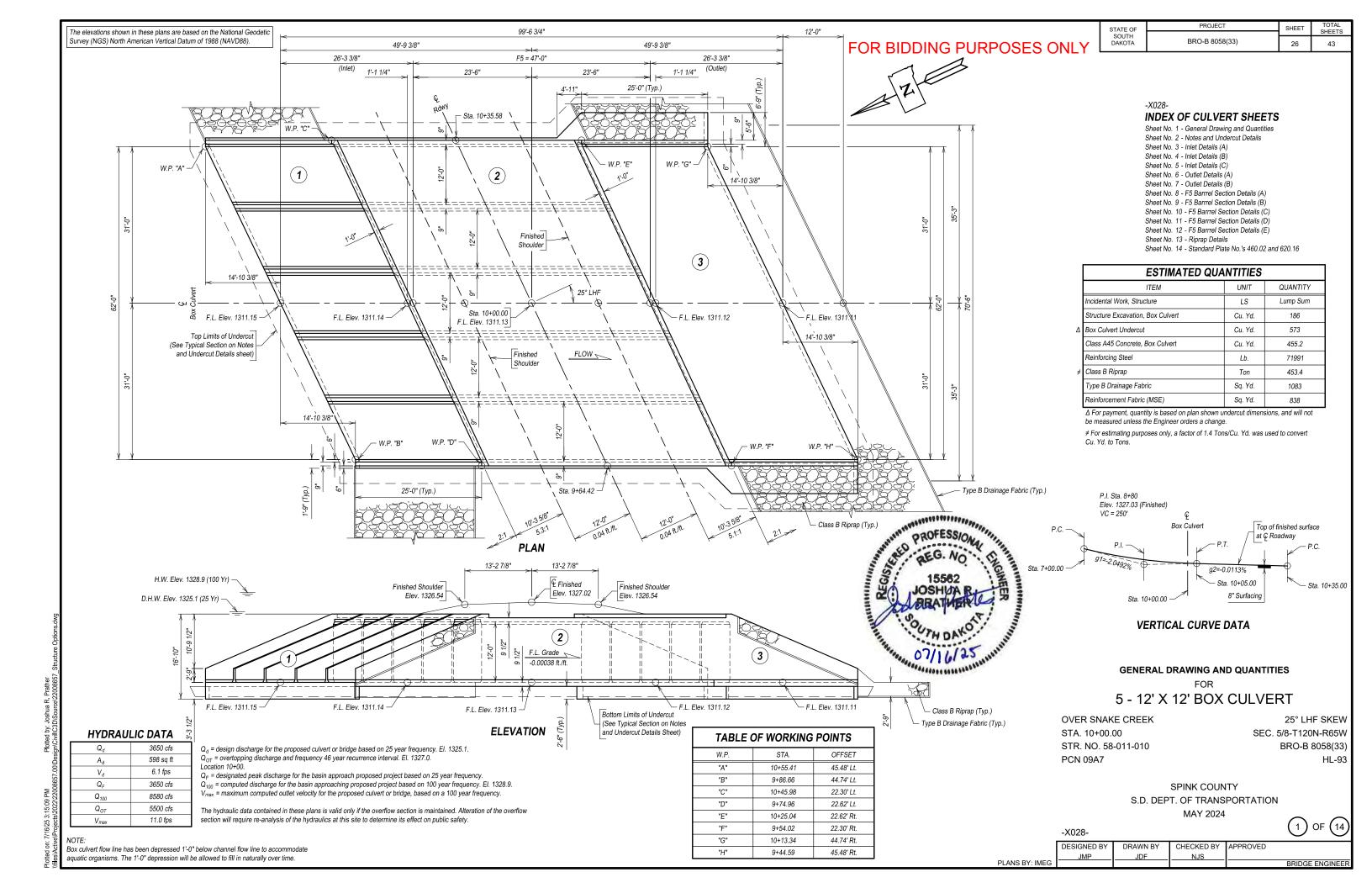
> February 14, 2020 PLATE NUMBER

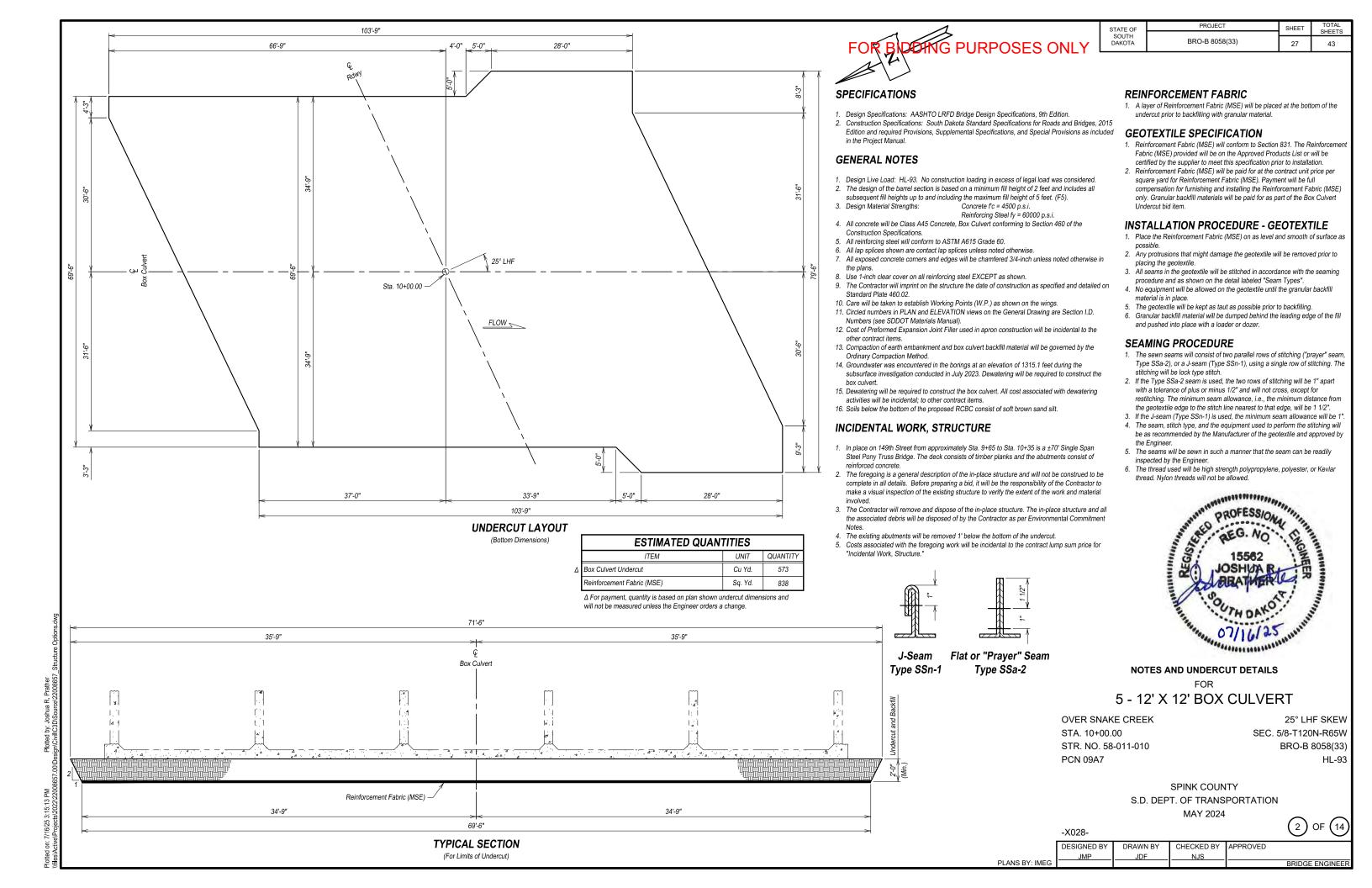
> > 734.06

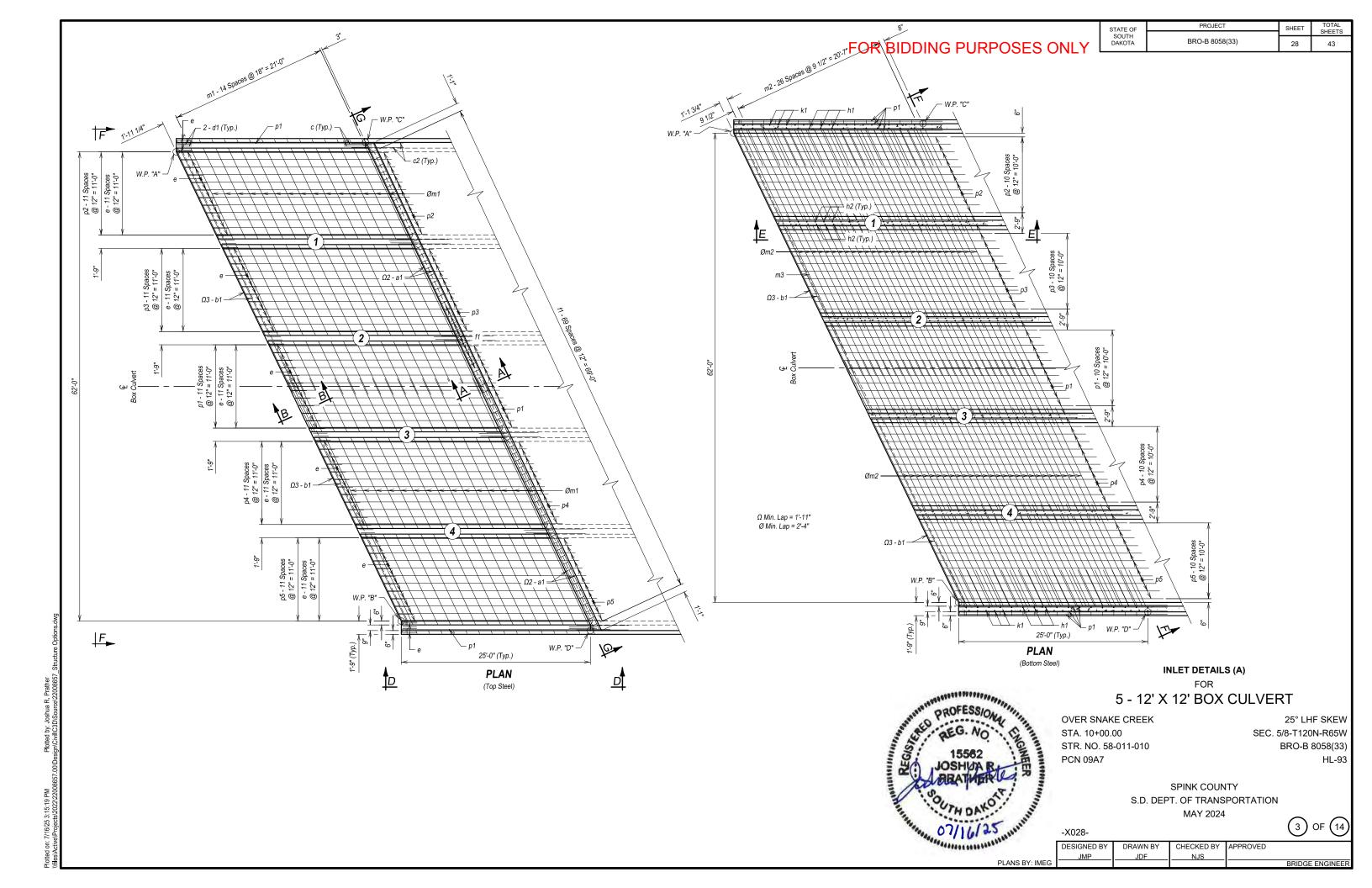
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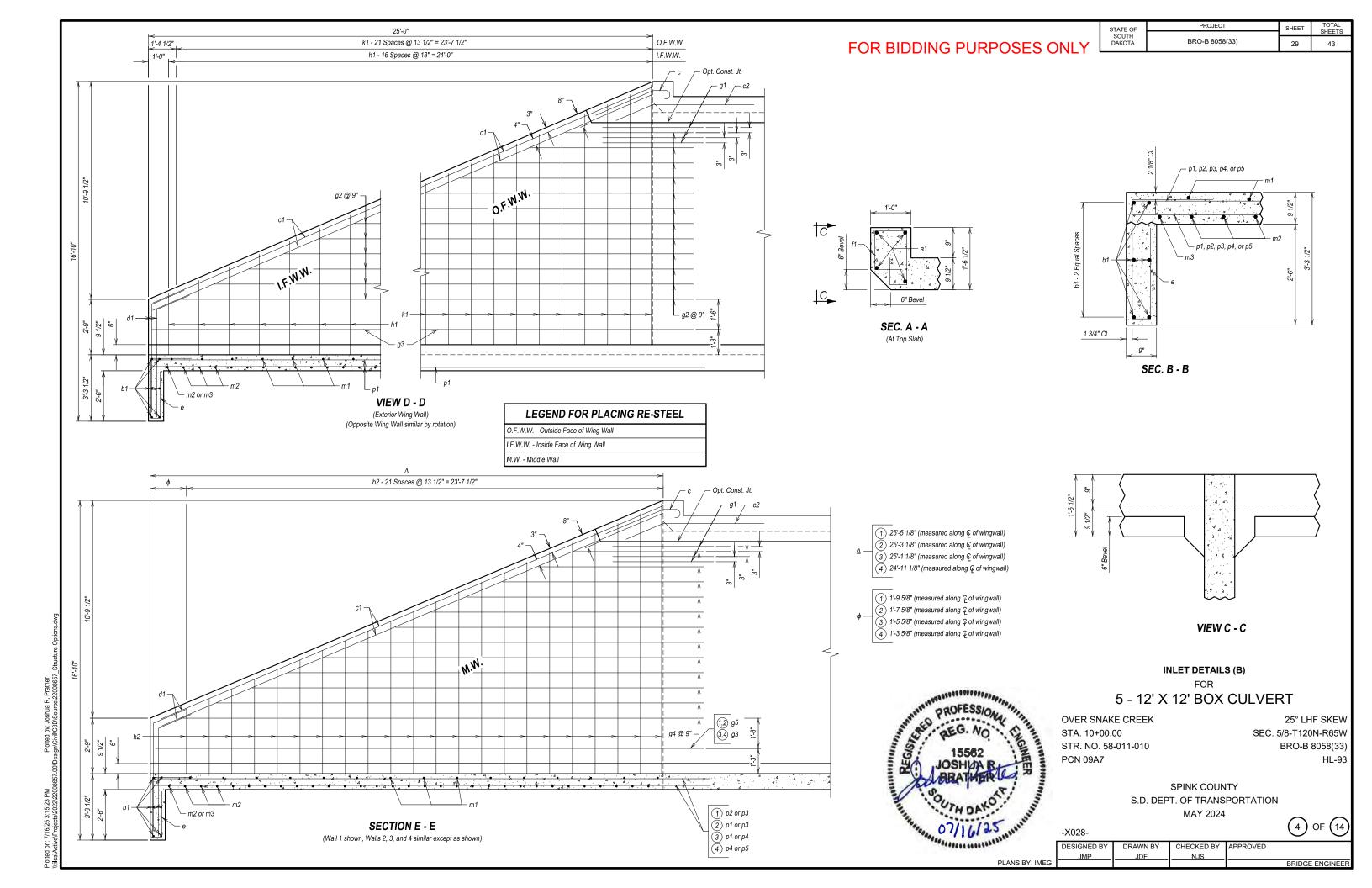
EROSION CONTROL WATTLE

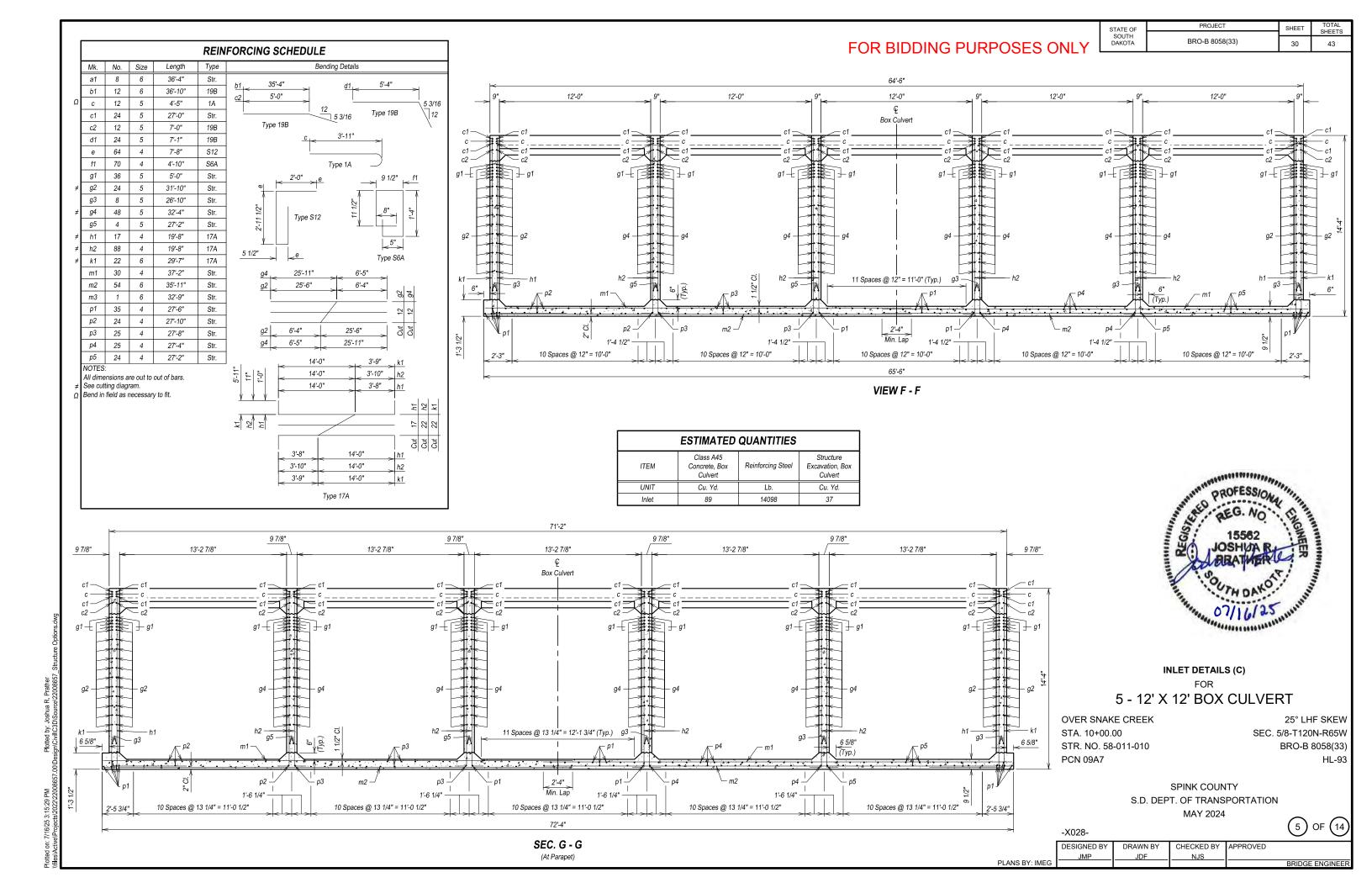
Sheet 2 of 2

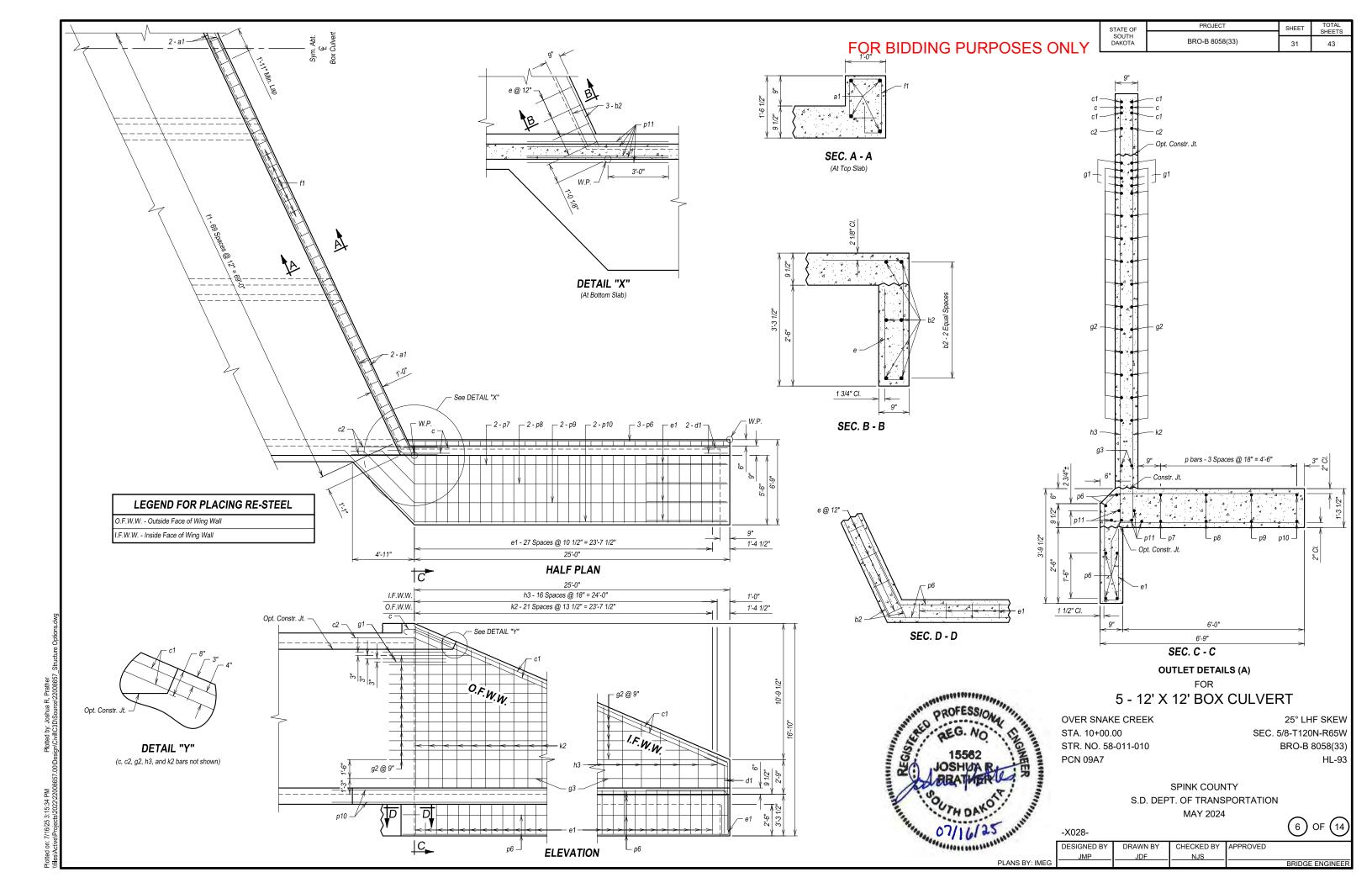


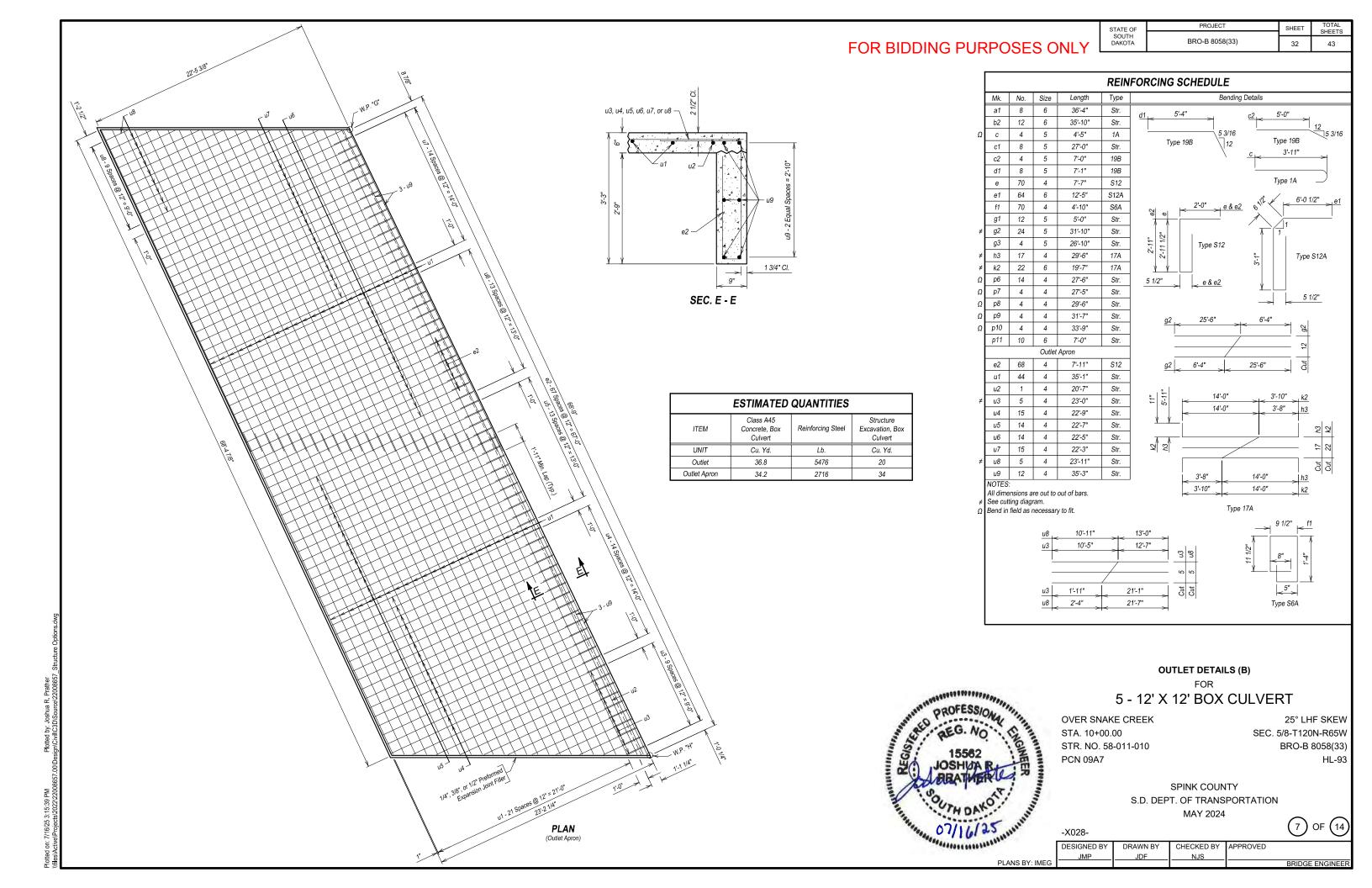


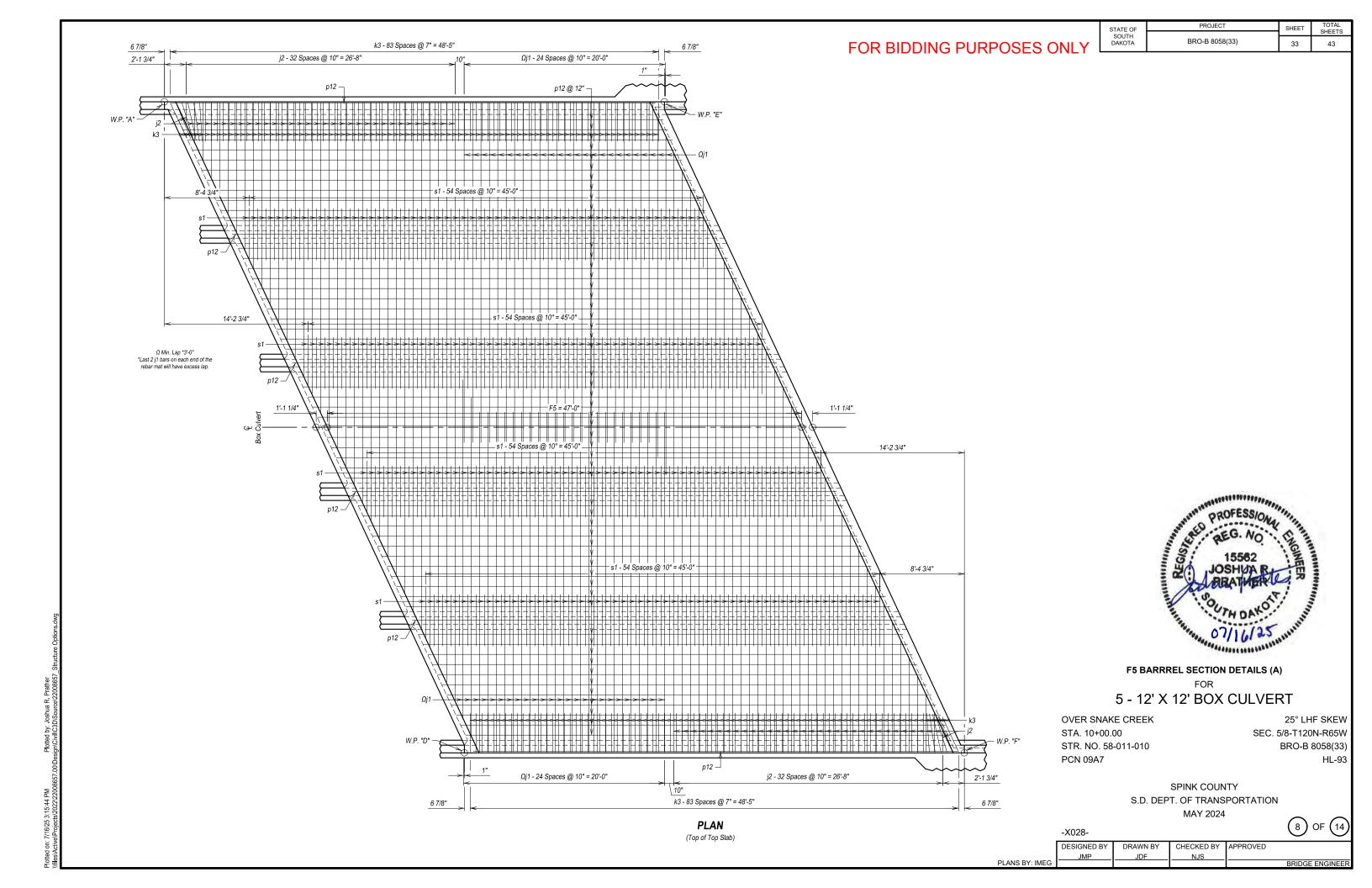


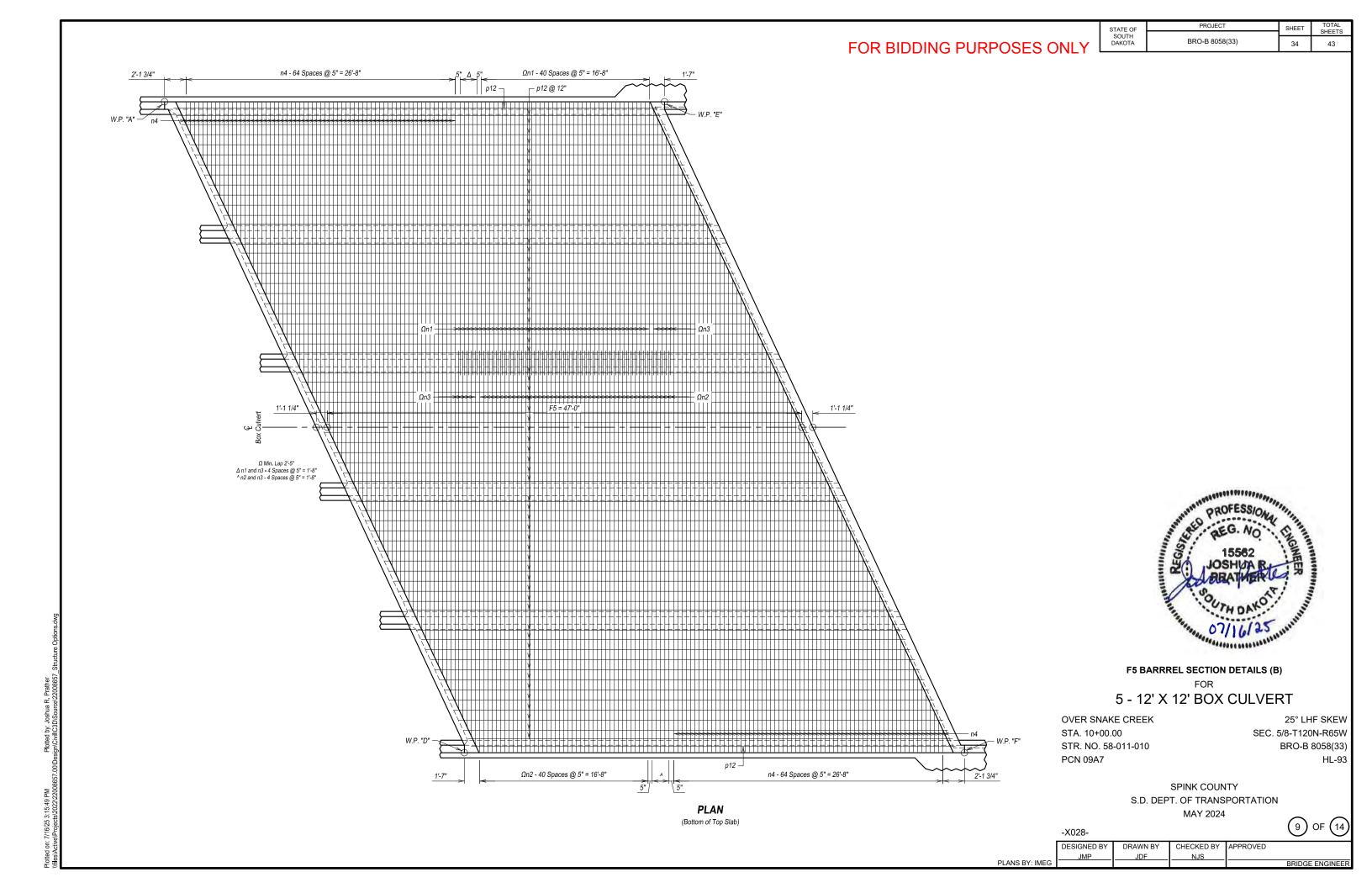


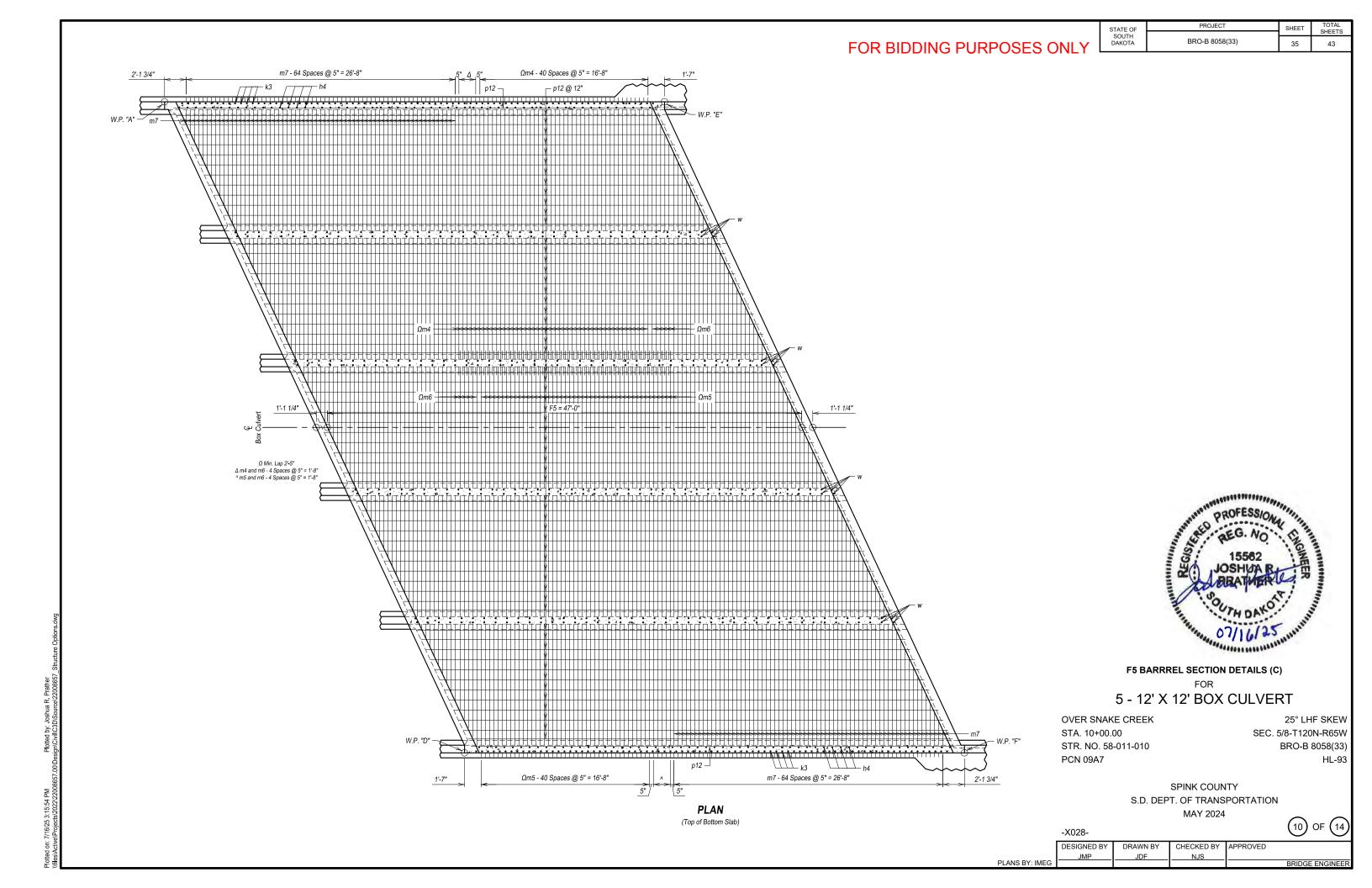


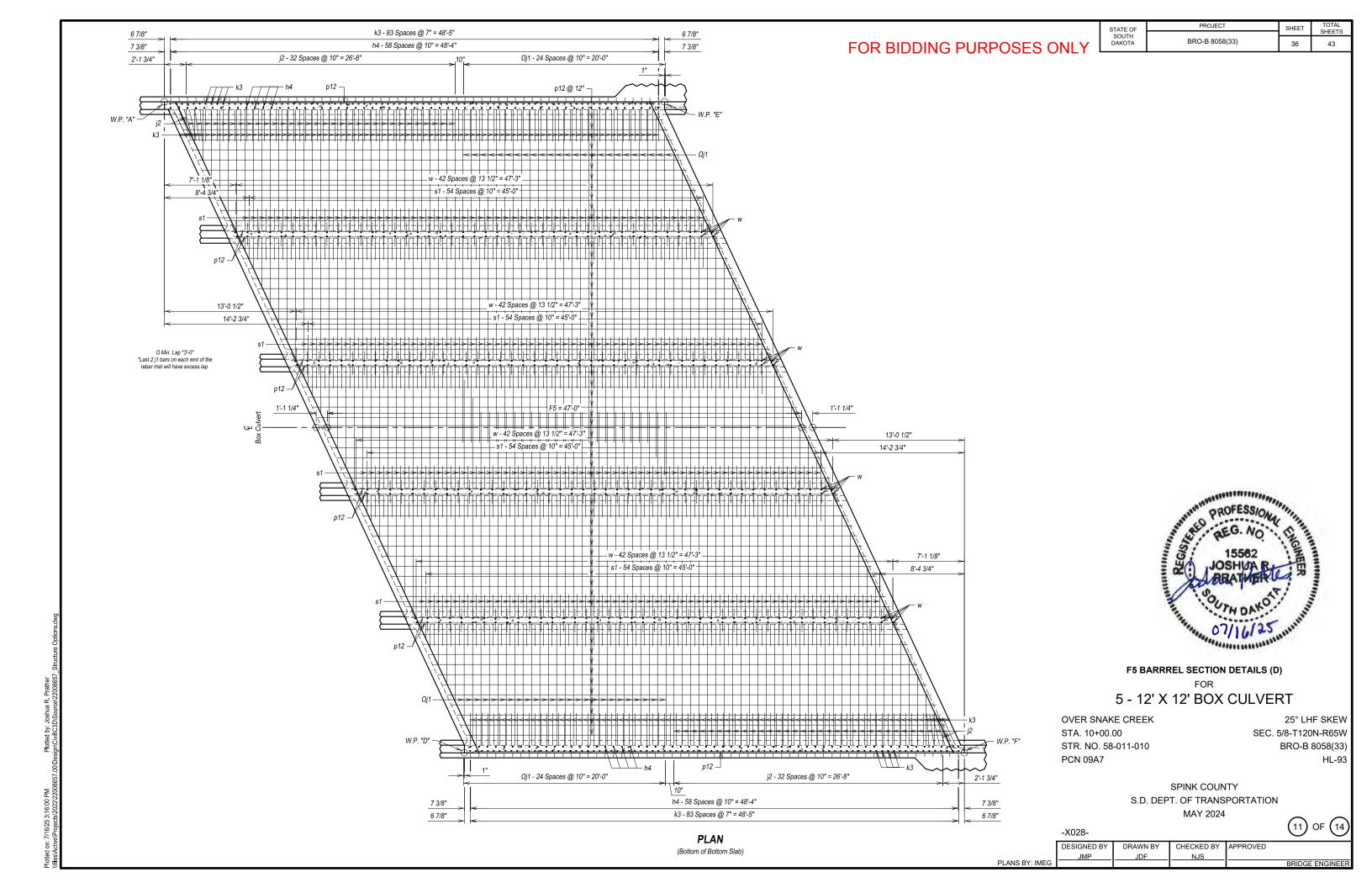


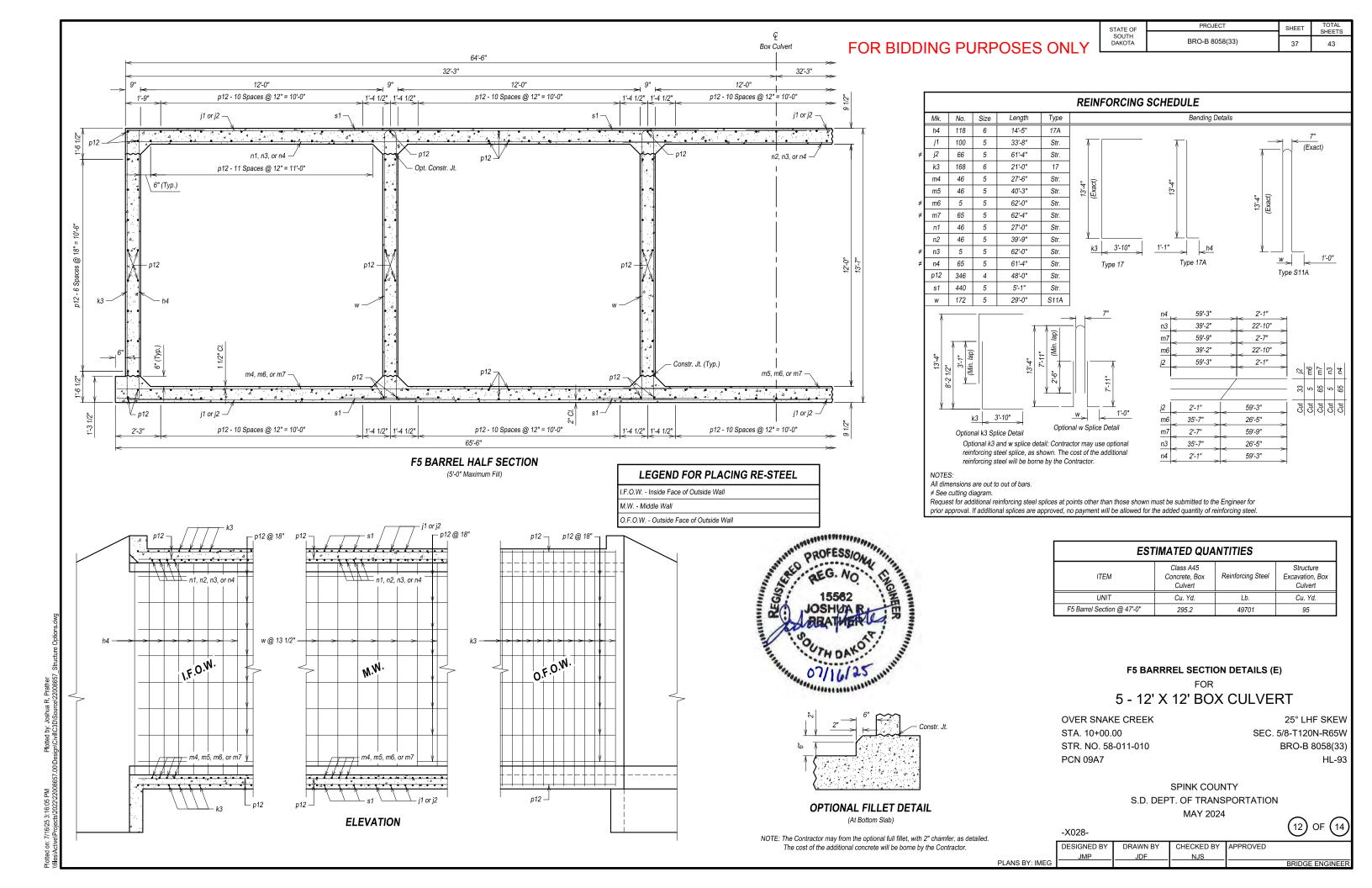


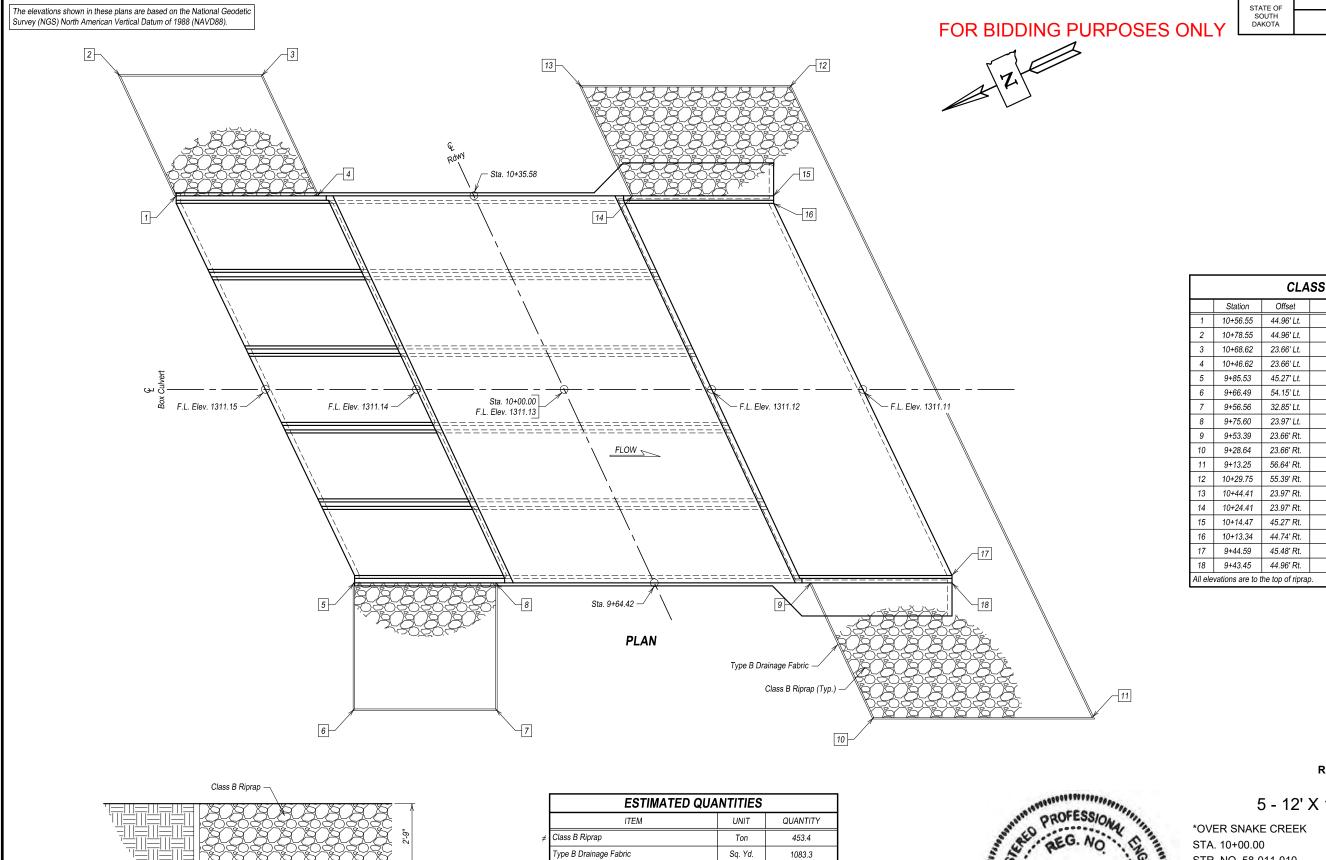












≠ For estimating purposes only, a factor of 1.4 Tons/Cu. Yd. was used to convert

Cu. Yd. to Tons.

- Type B Drainage Fabric

DRAINAGE FABRIC DETAIL

The elevations shown in these plans are based on the National Geodetic

CLASS B RIPRAP POINTS Northing (y) Easting (x) Elevation (z) 1313.65 512137.41 2303976.92 512138.11 2303998.91 1321.01 512116.51 2303989.66 1323.89 512115.81 2303967.67 1324.00 512135.47 2303905.93 1313.65 512143.74 2303886.62 1325.00 512122.14 2303877.37 1324.33 512113.87 2303896.68 1324.00 512065.56 2303875.99 1324.00 512064.77 2303851.25 1325.05 512031.31 2303836.93 1323.01 2303953.33 1321.27 512036.26 512068.13 2303966.98 1323.76 512067.50 2303946.99 1324.00 512045.89 2303937.74 1313.61 512046.39 2303936.59 1311.11 512043.46 2303867.89 1311.11 512043.95 2303866.74 1313.61

PROJECT

BRO-B 8058(33)

TOTAL SHEETS

43

SHEET

38

RIPRAP DETAILS

5 - 12' X 12' BOX CULVERT

STR. NO. 58-011-010

25° LHF SKEW SEC. 5/8-T120N-R65W BRO-B 8058(33)

PCN 09A7

SPINK COUNTY S.D. DEPT. OF TRANSPORTATION MAY 2024

CHECKED BY APPROVED

-X028-DESIGNED BY



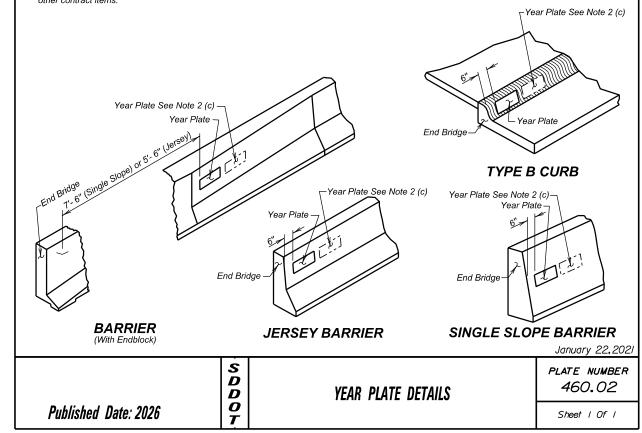
HL-93

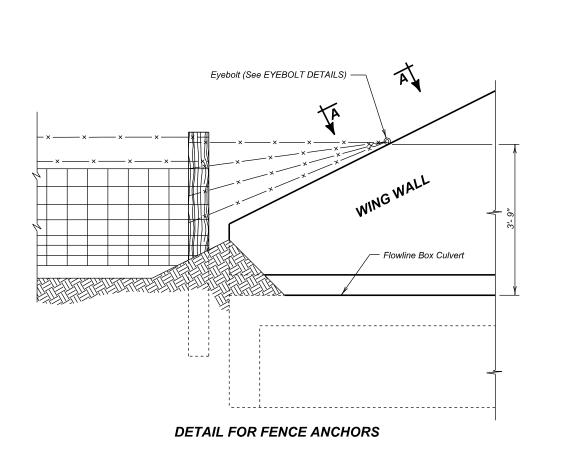
DRAWN BY

PLANS BY: IMEG

GENERAL NOTES:

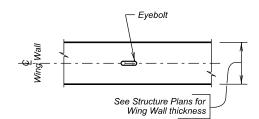
- 1. Year plates of the general dimensions shown will be constructed on all box culverts and bridges. The year plates will be constructed in reverse and attached to the forms in such a manner that the finished imprint in the concrete does not exceed one-half (1/2) inch in depth.
- 2. Year plates will be located on structure(s) as follows:
 - a. On cast-in-place box culverts the year plates will be four and one half (4 ½) inches below the top of the upstream parapet wall and centered laterally on the upstream face. On precast box culverts the year plate will be centered laterally on the upstream face of the top slab. Where an extended interior wall interferes with this location, the year plate will be centered in an adjacent barrel.
 - b. On bridges with six (6) inch curbs, "Jersey" shaped barriers with no endblocks, or "Single Slope" shaped barriers with no endblocks, the year plate will be centered vertically on the curb face approximately six (6) inches from the end of the bridge, or as designated by the Engineer. On bridges with barrier endblocks, the year plate will be centered on the upper sloped portion of the barrier approximately 5'- 6" for "Jersey" shaped barriers from the end of the bridge and 7'-6" for "Single Slope" shaped barriers from the end of bridge, or as designated by the Engineer. There will be one year plate at each end of the bridge on opposite sides.
 - c. When the plans specify that both the original date of construction and the date of reconstruction are to be shown, one date will be placed as listed above and the other located adjacent to it. Both year plates will be shown at each end of the bridge on opposite sides.
- There will be no separate measurement or payment made for year plates on box culverts and bridges. All costs for this work will be incidental to other contract items



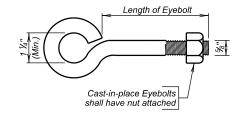


GENERAL NOTES:

- 1. The fence and post details shown are for illustrative purpose only. The fence shall be as specified elsewhere in the plans.
- 2. Eyebolts shall be placed on all of the box culvert wing walls.
- 3. Eyebolts shall be \(\frac{9}{8} \) inch diameter and shall conform to ASTM A307.
- 4. Eyebolts, nuts, and concrete inserts shall be galvanized in accordance with AASHTO M232 (ASTM A153). Concrete inserts of corrosion resistant material need not be galvanized.
- 5. Cast-in-place eyebolts shall have a nut attached, be 4 ½ inches (Min.) in length and shall be embedded such that the eye of the bolt is flush with the concrete surface. (See Eyebolt Details) As an alternate, cast-inplace concrete inserts, capable of developing the full strength of the $\frac{\pi}{8}$ inch diameter threaded eyebolt, may be used and shall be set in the concrete in accordance with the manufacturer's recommendations. The evebolt shall be of sufficient length to develop its full strength. The eye of the eyebolt shall be flush with the concrete surface.
- 6. The cost for furnishing and installing eyebolts and/or concrete inserts shall be incidental to various contract items.



VIEW A - A



EYEBOLT DETAILS

December 23,2012

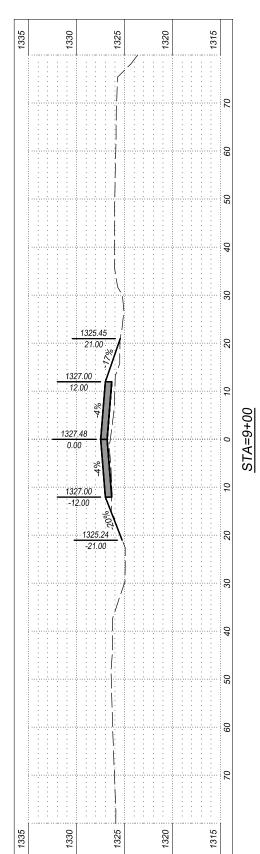
S D D O Published Date: 2026

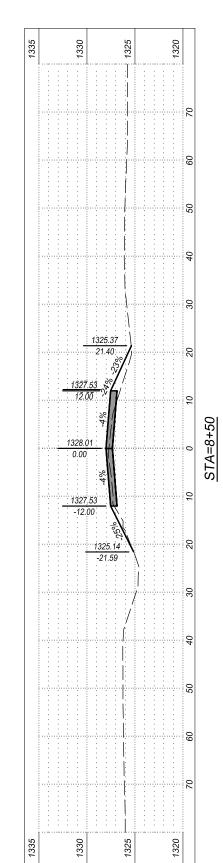
FENCE ANCHORS FOR **BOX CULVERT WING WALLS** PLATE NUMBER 620.16 Sheet I of I

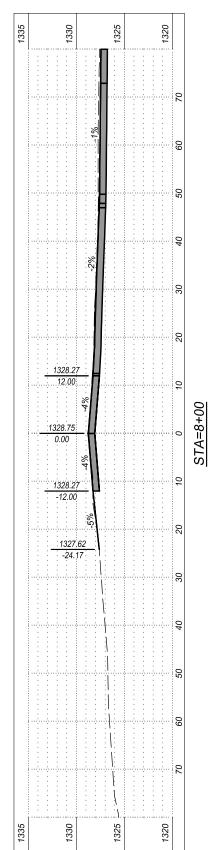
5 - 12' X 12' BOX CULVERT

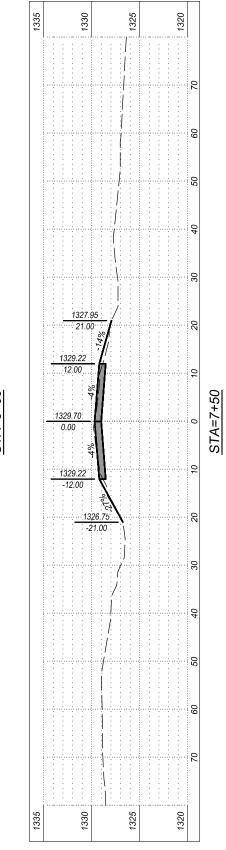
STR. NO. 58-011-010 MAY 2024

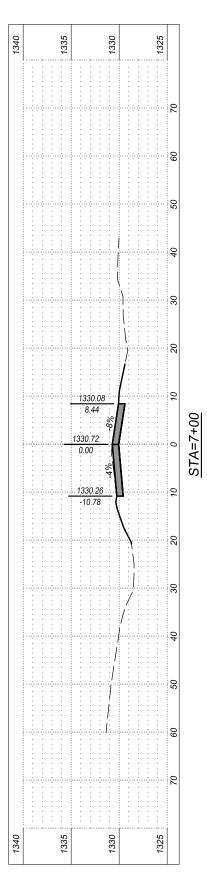
CROSS SECTIONS - 149TH STREET (1 OF 3)OR BIDDING PURPOSES ONLY

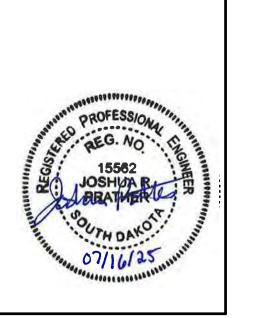








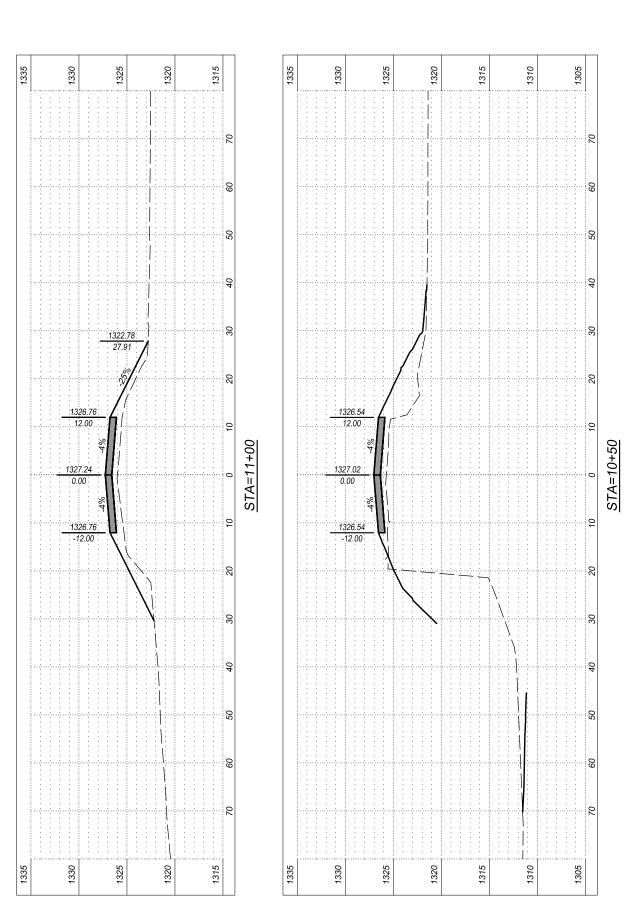


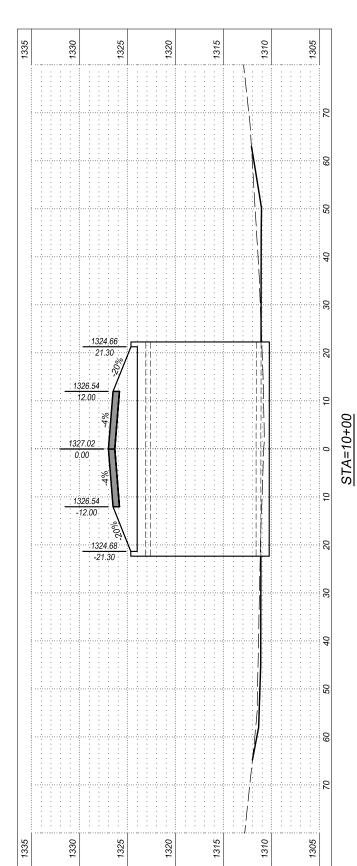


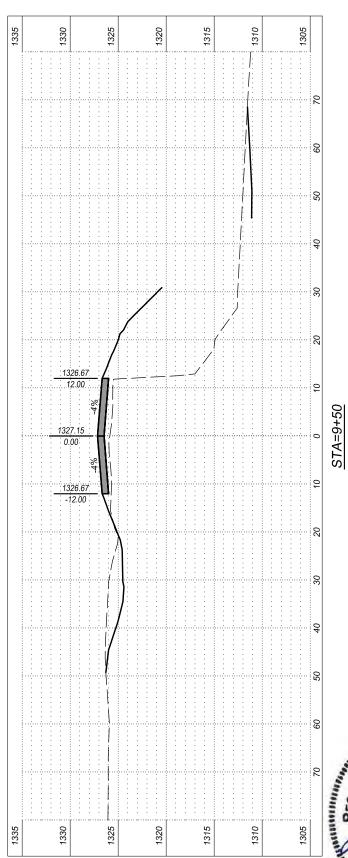
CROSS SECTIONS - 149TH STREET (2 OF 3)OR BIDDING PURPOSES ONLY

 STATE OF SOUTH DAKOTA
 PROJECT
 SHEET
 TOTAL SHEETS

 BRO-B 8058(33)
 41
 43



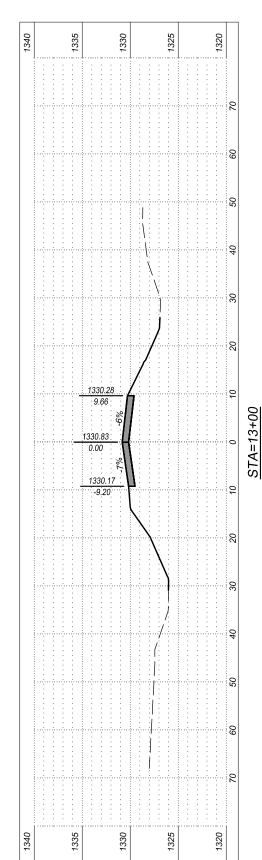


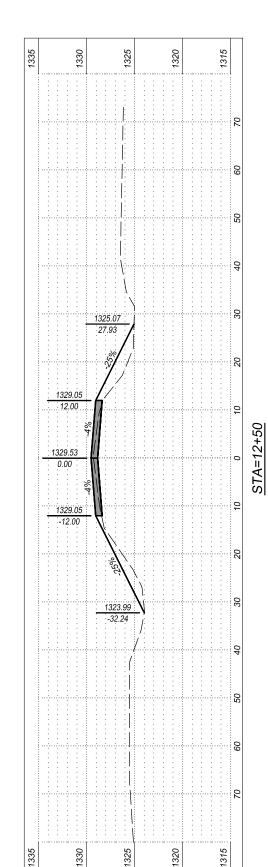


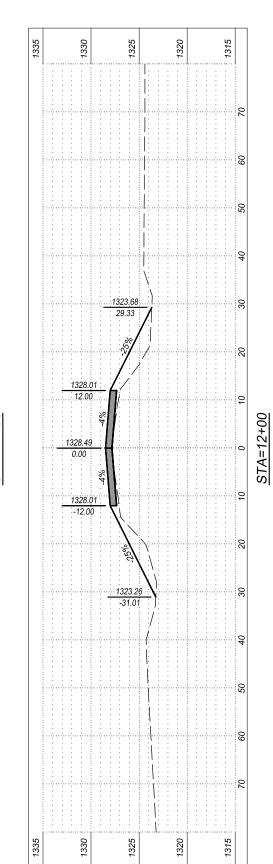
PROFESSIONAL DAYOUTE AND AND THE STATE OF THE PROPERTY OF THE

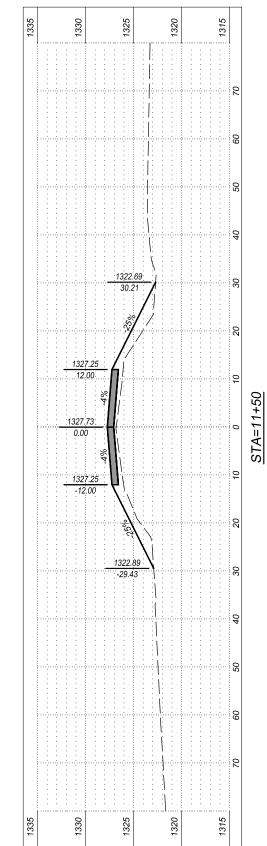
56 PM Plotted by: Joshua R. Prather 9/22008657 Ohil Design dwg

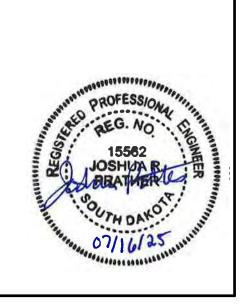
CROSS SECTIONS - 149TH STREET (3 OF 3)OR BIDDING PURPOSES ONLY











CROSS SECTIONS - 375TH AVENUE FOR BIDDING PURPOSES ON

		STATE OF
\cup	ıv	SOUTH
עונט נ	1 T I	DAKOTA

PROJECT SHEET

BRO-B 8058(33) 43

TOTAL SHEETS

43

