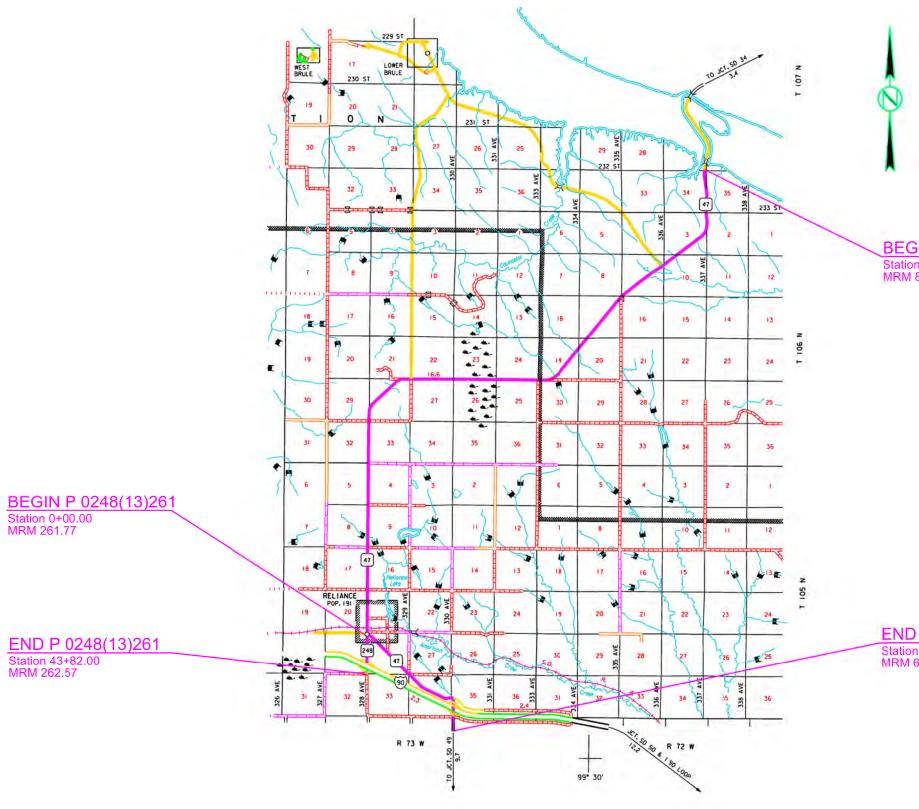
SECTION D: EROSION AND SEDIMENT PLANS



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BEGIN P 0047(117)67 Station -2+50.00 MRM 87.00 + 0.346

END P 0047(117)67 Station 1024+81.32 MRM 67.00 + 0.602



SECTION D ESTIMATE OF QUANTITIES SD47 (PCN 069Q)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	3.0	CuYd
110E1700	Remove Silt Fence	1,740	Ft
730E0212	Type G Permanent Seed Mixture	500	Lb
731E0200	Fertilizing	14.40	Ton
732E0100	Mulching	48.4	Ton
734E0103	Type 3 Erosion Control Blanket	2,500	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,220	Ft
734E0604	High Flow Silt Fence	1,740	Ft
734E0610	Mucking Silt Fence	121	CuYd
734E0620	Repair Silt Fence	435	Ft

SECTION D ESTIMATE OF QUANTITIES SD248 (PCN 06YC)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
730E0212	Type G Permanent Seed Mixture	22	Lb
731E0200	Fertilizing	0.64	Ton
732E0100	Mulching	1.7	Ton
734E0103	Type 3 Erosion Control Blanket	320	SqYd
734E0154	12" Diameter Erosion Control Wattle	320	Ft

REMOVE TOPSOIL

Measurement of topsoil quantities will not be made. All cost associated with removing topsoil will be paid for at plans quantity at the contract unit price per cubic yard for "UNCLASSIFIED EXCAVATION".

Quantities are included within the "Section B" Estimate of Quantities.

Prior to beginning full depth reclamation operations, a 4" depth of topsoil will be bladed down the respective inslope and left in a windrow 10'+/- from the subgrade shoulder. Following completion of resurfacing operations, topsoil will be bladed back up the inslope.

Prior to beginning embankment widening for turn lane construction. embankment widening at approach guardrail replacement sites, and repairs at culvert / erosion repair sites a 4" depth of topsoil will be removed and salvaged. Following completion of the aforementioned work, salvaged topsoil will be placed back throughout the disturbed areas.

PLACING TOPSOIL

Finished topsoil thickness will be approximately 4 inches throughout all disturbed areas.

All costs to replace the removed topsoil within all disturbed areas will be incidental to the contract unit price per cubic yard for "PLACING TOPSOIL".

Measurement of topsoil quantities will not be made as plans quantity will be the basis for payment. For informational purposes only, the estimated topsoil replacement is shown in the tables below.

Quantities are included within the "Section B" Estimate of Quantities.

FERTILIZING

The Contractor will apply an all-natural slow release fertilizer prior to seeding or placing sod. The all-natural fertilizer will have a minimum guaranteed analysis of 4-4-4 and be USDA Certified BioBased. It should provide a minimum of 4% (N) nitrogen with a minimum water insoluble nitrogen (WIN) fraction of 2.07%, a minimum of 4% (P2O5) available phosphate, a minimum of 4% (K2O) soluble potash, and a maximum carbon to nitrogen ratio (C:N ratio) of 5:1. The all-natural fertilizer will be free of weed-seed and pathogens accomplished through thermophilic composting, and not mechanical or chemical sterilization, to assure presence of beneficial soil microbiology. The fertilizer will have a near neutral pH, a low salt index, a low biological oxygen demand, contain organic humic and fulvic acids, and have high aerobic organism counts. The fertilizer will also be stable, free of bad odors, and be unattractive as a food source for animals. It should also be in a granular form that is easily spread.

The fertilizer will be applied at a rate of 1,500 pounds per acre in accordance with the manufacturer's recommended method of application.

The all-natural slow release fertilizer will be as shown below or an approved equal:

<u>Product</u>	<u>Manufacturer</u>
Sustane	Sustane Corporate Headquarters Cannon Falls, Minnesota Phone: 1-800-352-9245 www.sustane.com
Perfect Blend	Perfect Blend, LLC Bellevue, WA Phone: 1-866-456-8890 www.perfect-blend.com
Nature Safe	Nature Safe Fertilizers Irving, TX Phone: 1-605-759-5622
	www.naturesafe.com

MULCHING (GRASS HAY OR STRAW)

An additional 10 tons of Grass Hay or Straw Mulch has been added to the Estimate of Quantities for temporary erosion control on areas determined by the Engineer during construction.

If the Contractor uses a no-till drill, mulch may be applied prior to seeding and the mulch can then be punched into the soil by the no-till drill. If the Contractor uses this process, the no-till drill seeding will be completed immediately following the mulch application and the mulch will be punched into the soil at a 3-inch depth.

FOR BIDDING PURPO

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.

The estimated amount of disturbed area to have Permanent Seeding is 19.2 acres SD47 & 0.85 Acres SD 248.5

Type G Permanent Seed Mixture will consist of the following:

Grass Species Western Wheatgras Switchgrass Indiangrass **Big Bluestem** Oats or Spring Whe

April through May; Winter Wheat: Augu through November

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.

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.

internet site:

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

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5	Variety	Pure Live Seed (PLS) (Pounds/Acre)
ss	Arriba, Flintlock, Rodan, Rosana, Walsh	7
	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
	Holt, Tomahawk, Chief, Nebraska 54	3
	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	3
eat:		10
ust		
	Total:	26

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



TABLE OF EROSION CONTROL WATTLE

		Diameter	Quantity
Station	Location	(Inch)	(Ft)
13+77 to 14+17	Pipe Replacement	12	160
102+68 to 103+08	Pipe Replacement	12	160
413+92 to 414+32	Pipe Replacement	12	160
432+92 to 433+32	Pipe Replacement	12	160
821+79(2nd) to 822+19(2nd)	Pipe Replacement	12	160
831+27(2nd) to 831+67(2nd)	Pipe Replacement	12	160
877+74(2nd) to 878+14(2nd)	Pipe Replacement	12	160
4+38 to 5+23 Hwy 248	Pipe Replacement	12	160
18+82 to 19+22 Hwy 248	Pipe Replacement	12	160
	Additional Quantity:	12	100
		Total:	1540

EROSION CONTROL BLANKET

Erosion control blanket will be installed 16 feet wide at the locations noted in the table 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	Туре	Quantity (SqYd)
13+77 to 14+17	Pipe Replacement	3	850
102+68 to 103+08	Pipe Replacement	3	330
413+92 to 414+32	Pipe Replacement	3	160
432+92 to 433+32	Pipe Replacement	3	180
821+79(2nd) to 822+19(2nd)	Pipe Replacement	3	160
831+27(2nd) to 831+67(2nd)	Pipe Replacement	3	160
877+74(2nd) to 878+14(2nd)	Pipe Replacement	3	160
4+38 to 5+23 Hwy 248	Pipe Replacement	3	160
18+82 to 19+22 Hwy 248	Pipe Replacement	3	160
	Additional Quantity:	12	500
		T . (.)	0000

Total: 2820

HIGH FLOW SILT FENCE

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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	Location	Quantity (Ft)
112+38 to 113+38 L	Fence Berm Site (Perimeter Control)	120
126+54 to 127+54 L	Fence Berm Site(Perimeter Control)	120
187+16	Cattle Pass (Perimeter Control	40
211+18 to 311+18 L	Fence Berm Site(Perimeter Control)	120
234+17	Cattle Pass (Perimeter Control	40
279+16	Cattle Pass (Perimeter Control	40
373+12	Cattle Pass (Perimeter Control	40
845+03	Cattle Pass (Perimeter Control	40
Pip	be Repair Locations	1080
	Additional Quantity:	100
	Total:	1740

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STORMWATER POLLUTION PREVENTION PLAN CHECKLIST

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

5.3 (2): STAFF TRAINING/SWPPP IMPLEMENTATION

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

5.3 (3): DESCRIPTION OF CONSTRUCTION ACTIVITIES

- > 5.3 (3a): Project Limits (See Title Sheet)
- \succ 5.3 (3a): Project Description (See Title Sheet)
- 5.3 (4): Site Map(s) (See Title Sheet and Plans) \triangleright
- 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 122 Acres
- 5.3 (3b): Total Area to be Disturbed 20.1 Acres
- 5.3 (3c): Maximum Area Disturbed at One Time 20.1 Acres \succ
- 5.3 (3d): Existing Vegetative Cover (%) \geq
- 5.3 (3d): Description of Vegetative Cover \geq
- > 5.3 (3e): Soil Properties: AASHTO Soil Silt clay, clay, clay sand, sandy clav and sand, A-2-4, A-6, A-7-5 OR A-7-6,
- 5.3 (3f): Name of Receiving Water Body/Bodies Lake Sharpe & \geq Lake Francis Case
- > 5.3 (3g): Location of Construction Support Activity Areas

5.3 (3h): ORDER OF CONSTRUCTION ACTIVITIES

- Special sequencing requirements (see sheet).
- The Contractor will enter the Estimated Start Date.

Description	Estimated Start Date
Install stabilized construction entrance(s).	
Install perimeter protection where runoff may exit site.	
Install perimeter protection around stockpiles.	
Install channel and ditch bottom protection.	
Remove and stockpile topsoil.	
Stabilize disturbed areas.	
Install inlet and culvert protection after completing storm drainage and other utility installations.	
Final grading.	
Final paving.	
Removal of protection devices.	
Reseed areas disturbed by removal activities.	

5.3 (5): DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES R BIDDING PURPO

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:				

☐ Tarps & Wind
U Watering
Stockpile loca
Dust Control
Other

Sediment Ba
Dewatering b
🗌 Weir tanks
Temporary D
Other:

(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))

□Vegetation Bu
Temporary S
🛛 Permanent S
Sodding
Planting (Wo
🛛 Mulching (Gr
Fiber Mulchir
Soil Stabilize
Bonded Fibe
Fiber Reinfor
Erosion Cont
Surface Roug
Other:

Wetland Avoidance

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

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:	

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Dust Controls	_
Description	Estimated Start Date
impervious fabrics	
ation/orientation	
Chlorides	

Dewatering BMPs	-
Description	Estimated Start Date
sins	
ags	
iversion Channel	

Stabilization Practices (See Detail Plan Sheets)

Description	Estimated Start Date
Iffer Strips	
eeding (Cover Crop Seeding)	
eeding	
ody Vegetation for Soil Stabilization)	
ass Hay or Straw)	
ng (Wood Fiber Mulch)	
r	
r Matrix	
ced Matrix	
rol Blankets	
ghening (e.g. tracking)	

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 $\frac{1}{3}$ of the height of the silt fence.
- Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction.
- Check dams will be inspected for stability. Sediment will be removed when depth reaches $\frac{1}{2}$ 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 late OR BIDDING PURPO 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.

- site.

- response materials.

5.3 (8b): WASTE MANAGEMENT PROCEDURES > Waste Disposal

Hazardous Waste

> Sanitary Waste

regulations.

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 Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the Contractor at the

 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

Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response activities.

• 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.

• 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.

 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

5.3 (9): CONSTRUCTION SITE POLLUTANTS

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

- Concrete and Portland Cement
- > Detergents
- ➤ ☐ Paints
- ➤ ☐ Metals
- Bituminous Materials
- > X Petroleum Based Products
- Diesel Exhaust Fluid
- Cleaning Solvents
- ≻ □ Wood
- ➤ ☐ Cure
- > Texture
- ➢ ☐ Chemical Fertilizers
- ➢ ☐ Other:

Product Specific Practices

Petroleum Products

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

Fertilizers

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

Paints

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

Concrete Trucks

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

5.3 (10): NON-STORMWATER DISCHARGES

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

- > Discharges from water line flushing.
- Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.

5.3 (11): INFEASIBILITY DOCUMENTATION

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

7.0: SPILL NOTIFICATION

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

- A release or spill of a regulated substance (includes petroleum and petroleum products) must be reported to SDDANR immediately if any one of the following conditions exists:
 - The release or spill threatens or is able to threaten waters of the state (surface water or ground water)
 - The release or spill causes an immediate danger to human health or safety
 - The release or spill exceeds 25 gallons
 - The release or spill causes a sheen on surface water
 - The release or spill of any substance that exceeds the ground water quality standards of ARSD Chapter 74:54:01
 - The release or spill of any substance that exceeds the surface water quality standards of ARSD Chapter 74:51:01
 - The release or spill of any substance that harms or threatens to harm wildlife or aquatic life
 - The release or spill is required to be reported according to Superfund Amendments and Reauthorization Act (SARA) Title III List of Lists, Consolidated List of Chemicals Subject to Reporting Under the Emergency Planning and Community Right to Know Act, US Environmental Protection Agency.
- To report a release or spill, call SDDANR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central Standard Time). To report the release after hours, on weekends or holidays, call South Dakota Emergency Management at 605-773-3231. Reporting the release to SDDANR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, you must also contact local authorities to determine the local reporting requirements for releases. A written report of the unauthorized release of any regulated substance, including quantity discharged, and the location of the discharge will be sent to SDDANR within 14 days of the discharge.

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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 gualified 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 gualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature

CONTACT INFORMATION

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

- > Contractor Information:
 - Prime Contractor Name:
 - Contractor Contact Name: ______
 - Address: _____
 - _____
 - City: _____State: ____Zip: _____
 - Office Phone: ______Field: _____
 - Cell Phone: Fax:
- Erosion Control Supervisor
- Address:
- _____
- City: State: Zip:
- Office Phone: ______ Field: ______
- Cell Phone: _____ Fax: _____
- SDDOT Project Engineer
 - Name:
 - Business Address:
 - Job Office Location: ______
 - City: _____State: ____Zip: _____
 - Office Phone: Field:

 - Cell Phone: Fax:

SDDANR Contact Spill Reporting

- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231

> SDDANR Contact for Hazardous Materials.

- (605) 773-3153
- > National Response Center Hotline
 - (800) 424-8802.
- > SDDANR Stormwater Contact Information
 - SDDANR Stormwater (800) 737-8676
 - Surface Water Quality Program (605) 773-3351

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5.5: REQUIRED SWPPP MODIFICATIONS

- - - inspections.
 - general permit.

 - site.

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.

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> 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

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

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.

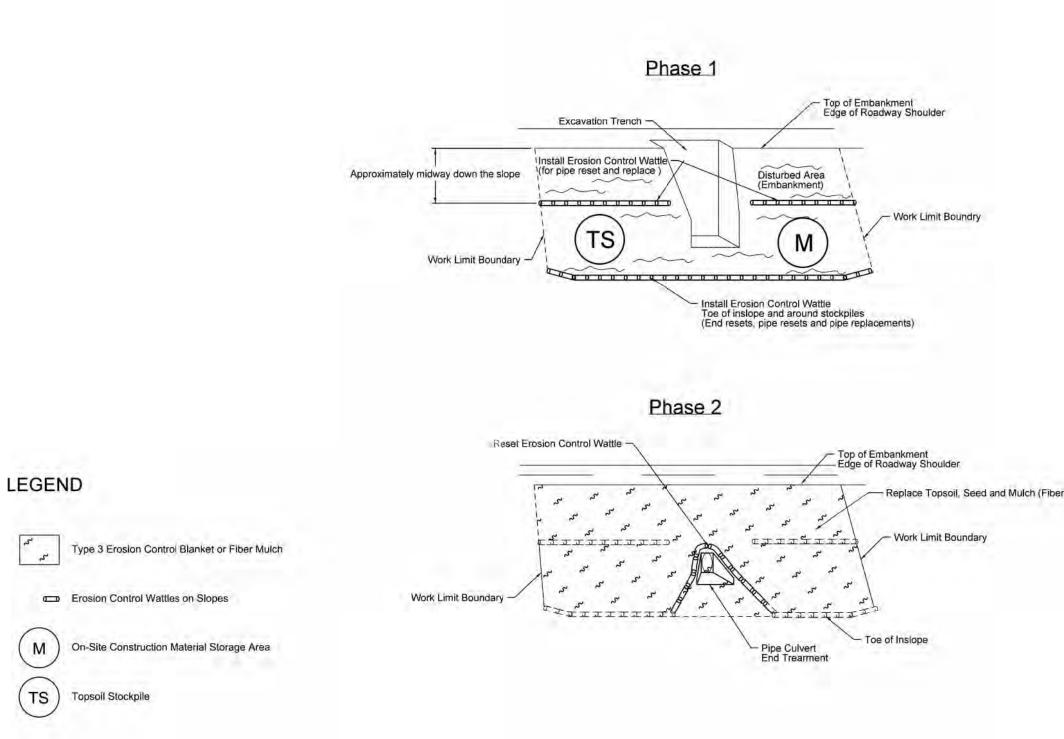
> 5.5 (4): Certification Requirements

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.

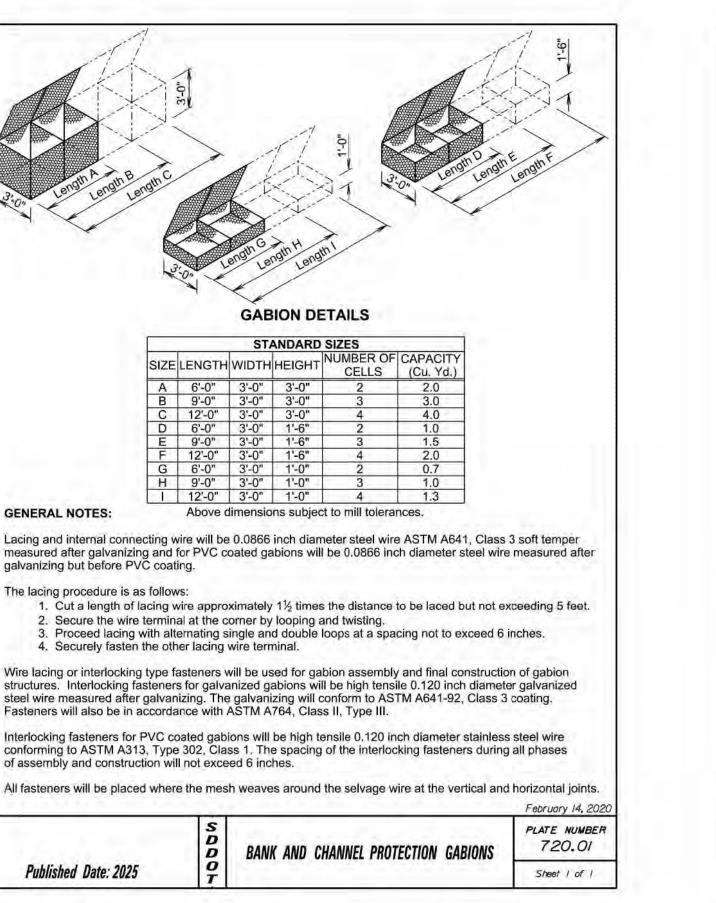


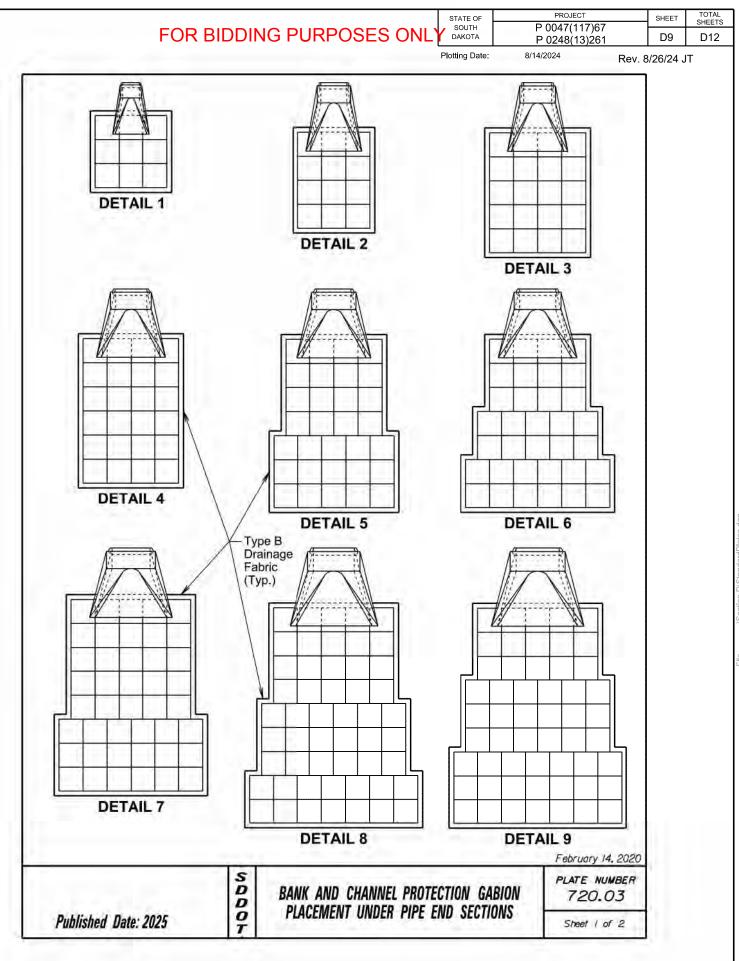


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Replace Topsoil, Seed and Mulch (Fiber Mulch or Type 3 Erosion Control Blanket per plans)

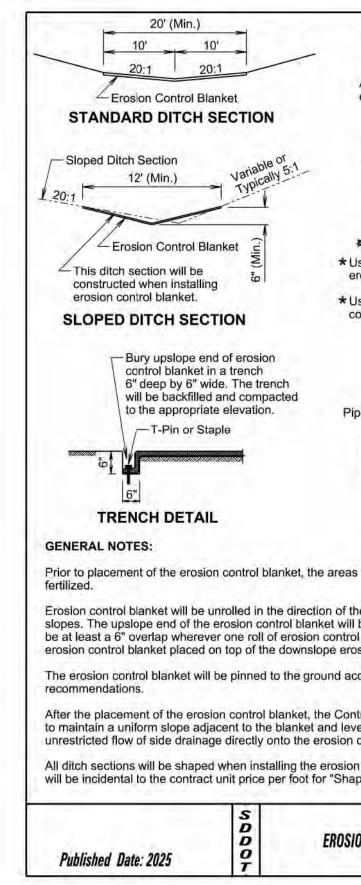




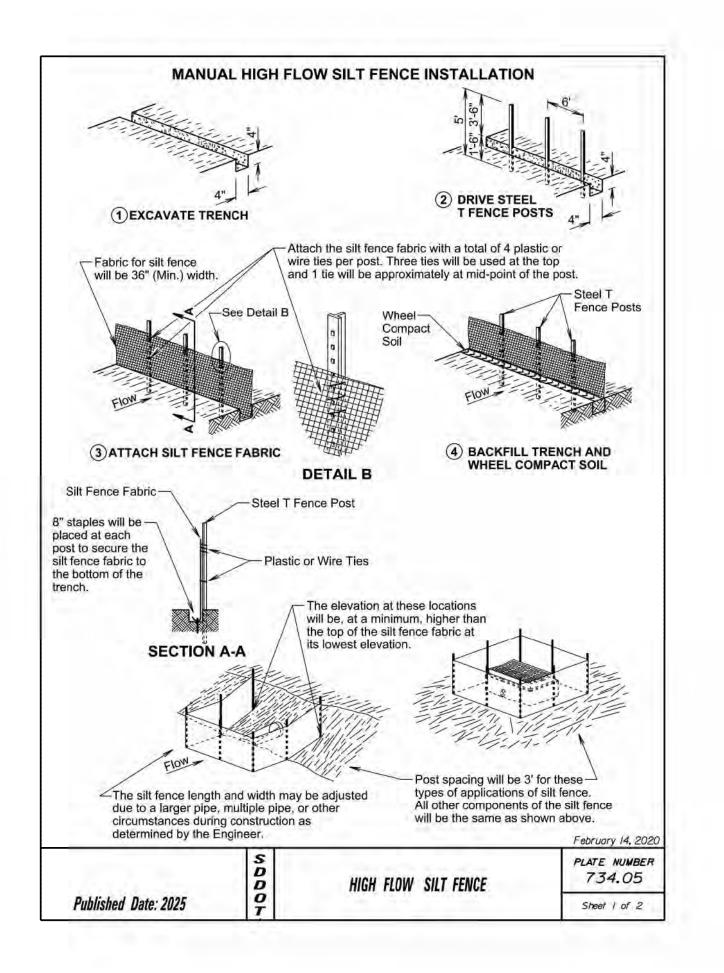


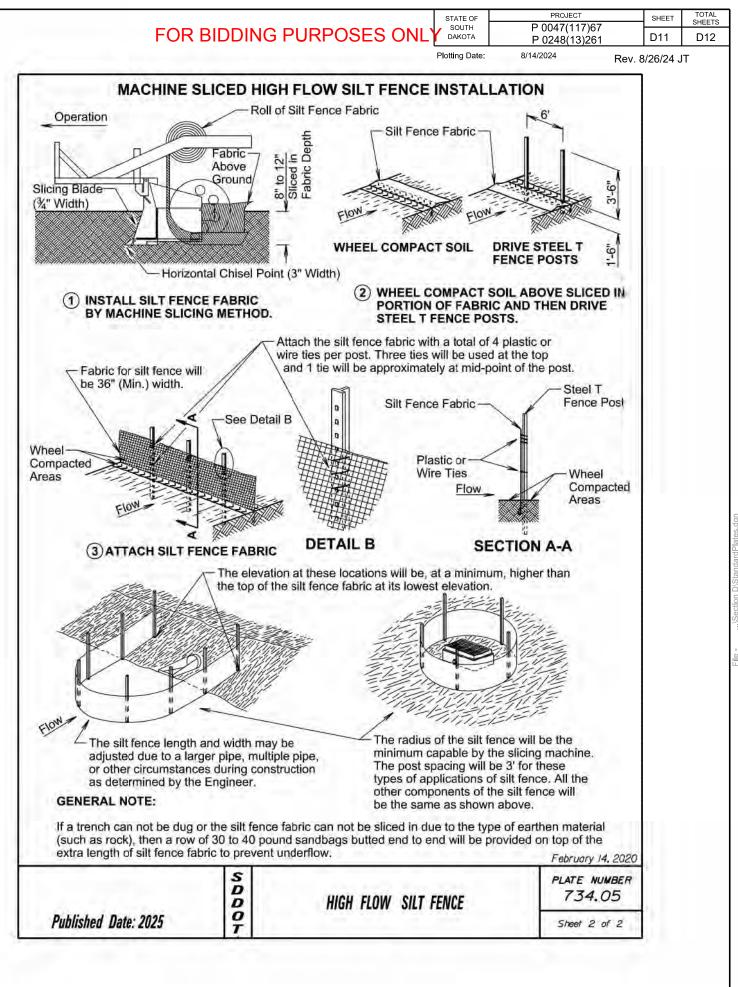
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Publiched Note: 2025		BANK AND C PLACEMENT			and the second se	PLATE NUMBER 720.03 Sheet 2 of 2
 	s		_			February 14, 2020
GENERAL NOTES: Gabions at outlets of CMP and R outlet end. For CMP end section accommodate the metal end sect Gabion and type B drainage fabri sizes D, E, and F as depicted on Type B drainage fabric will be pla the gabions as approved by the E Section 831 of the Specifications. conformance with Section 720 of	installa tion as c quan standa ticed un Enginee . Measi	tions, the upper approved by the tities on this sta rd plate 720.01 der the gabions er. The type B d urement and pa	fabric of Enginee Indard pla and arou rainage fa	the gabion r. te are bas nd the ext bric will be	s will be modifi ed on standard erior sides (per e in conformand	ed to gabion imeter) of ce with
5	9	84	20.0	70		
RCP, RCP Arch, CMP, and CMP Arch	7 8	72 78	21.5 26.0	57 68		
and	6	66	17.0	47		
RCP, RCP Arch,	4	48 and 54 60	12.0 15.5	34 43		
P A rdt	3	42	10.0	29		
_ j 2	1 2	30 and 36	4.5 6.0	15 19		
	Detail	Pipe Diameter (Inches) 12, 18, and 24		Type B Drainage Fabric (Sq. Yd.)		
	*	ESTIMATED	QUANTIT	IES		

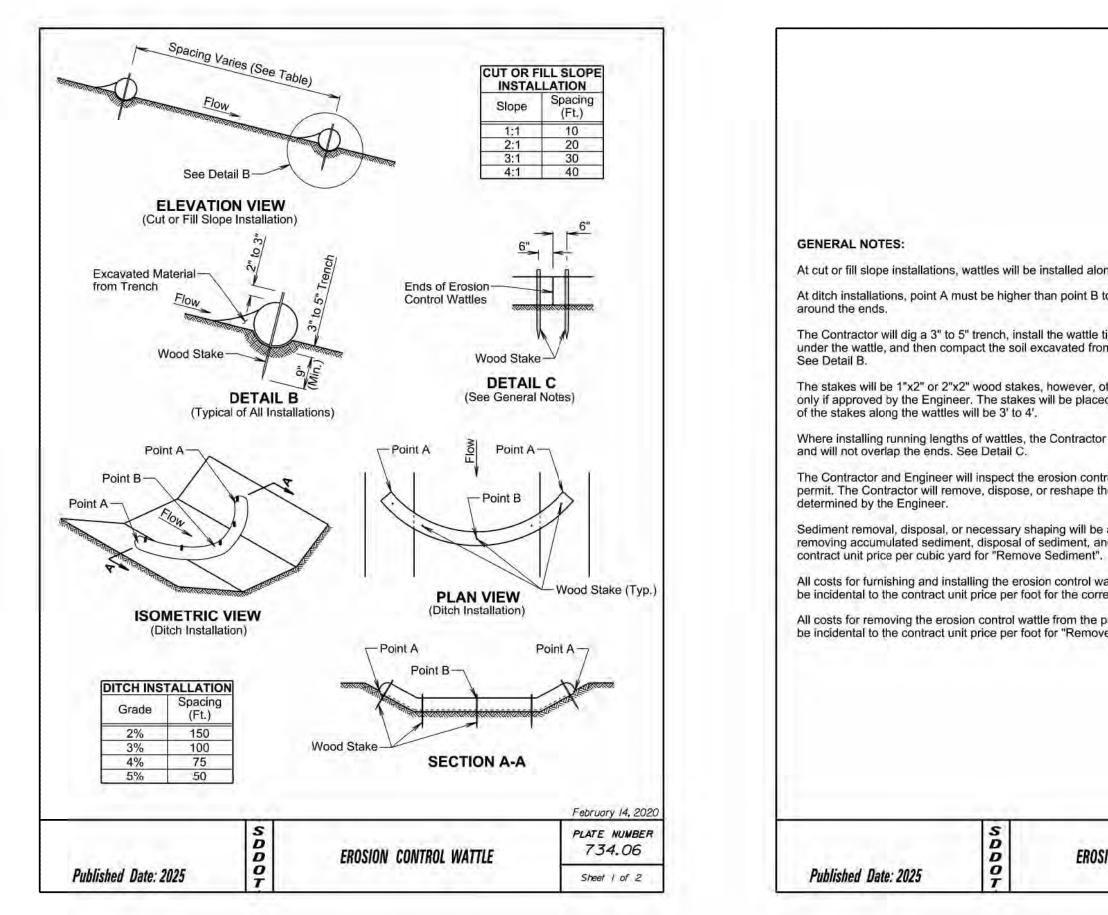


	PROJECT	SHEET	TOTAL SHEETS
SES ONLY DAKOTA	P 0047(117)67 P 0248(13)261	D10	D12
Plotting Date: 8/		ev. 8/26/24 J	JT
Median	-		
15' 20' (Min.)	15'		
6.7 10' 10'	6:1		
Area will be	-		
excavated 20:7 20:1	Erosion		
<u> </u>	- Control Blanket		
The median will be shaped to t			
in this detail where the erosion will be placed.	control blanket		
MEDIAN SECT	ION		
Flow_			
Use a 4" (Min.) overlap wherever th	wo widths of		
erosion control blanket are applied			
Jse a 6" (Min.) overlap wherever o	ne roll of erosion		
control blanket ends and another b			
OVERLAP DETAIL			
-Bury upslope e	nd of oronion		
control blanket	in a trench		
ipe 6" deep by 6" w will be backfille	ide. The trench d and compacted		
to the appropria			
T-Pin or S	taple		
	antantariay		
6"			
PIPE END DETAIL	62 C		
s will be properly prepared, shape	a, seeded, and		
he flow of water when placed in di	tches and on		
l be buried in a trench 6" wide by 6 ol blanket ends and another begins	" deep. There will		
osion control blanket.	s, war ale opsiope		
ccording to the manufacturer's inst	allation		
ccording to the manufacturer's inst	allation		
ntractor will fine grade along all ed	ges of the blanket		
ntractor will fine grade along all edu	ges of the blanket		
ntractor will fine grade along all edu vel any low spots which might prev control blanket.	ges of the blanket vent uniform and		
ntractor will fine grade along all edu vel any low spots which might prev control blanket. n control blanket. All costs for sha	ges of the blanket vent uniform and ping the ditches		
ntractor will fine grade along all edu vel any low spots which might prev control blanket. n control blanket. All costs for sha	ges of the blanket vent uniform and ping the ditches	20	
ntractor will fine grade along all edu vel any low spots which might prev control blanket. on control blanket. All costs for sha aping for Erosion Control Blanket".	ges of the blanket vent uniform and ping the ditches February 14, 20 PLATE NUMBE	1. al	
ccording to the manufacturer's inst ntractor will fine grade along all edu vel any low spots which might prev o control blanket. On control blanket. All costs for sha aping for Erosion Control Blanket".	ges of the blanket vent uniform and ping the ditches <i>February 14, 20</i>	1. al	





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	PROJECT P 0047(117)67	SHEET	TOTAL SHEETS
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		-	
ng the contour and perpendicul	ar to the water flow		
o ensure that water flows over	the wattle and not	r -	
ightly in the trench so that dayli in the trench against the wattle		n	
ther types of stakes such as re d 6" from the ends of the wattle	bar may be used		
	s and the spacing		
will butt the second wattle tigh	tly against the first		
rol wattles in accordance with the accumulated sediment when			
	necescary ac		
as directed by the Engineer. Al			
nd necessary shaping will be ind	cidental to the		
attles including labor, equipmer	nt, and materials wi		
esponding erosion control wattle			
project including labor, equipme e Erosion Control Wattle".	ent, and materials w	(II)	
e crosion control wattle .			
	February 14.	2020	
ION CONTROL WATTLE	PLATE NUM		
	734.0		
	Sheet 2 of	2	
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