



014A-451 & 473-451

SECTION SHEET

Non

- **INDEX OF SHEETS**
- General Layout with Index Estimate With General Notes & Tables Legend
- 9-10 SD473 (i7HY) Plan & Cross Sections US14a (i7K3) Plan Sheet

ESTIMATE OF QUANTITIES

PCN i7HY – SD 473

BID ITEM	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E1700	Remove Silt Fence	30	Ft
450E8900	Cleanout Pipe Culvert	1	Each
464E0100	Controlled Density Fill	10.0	CuYd
634E0010	Flagging	40.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
700E0310	Class C Riprap	30.0	Ton
734E0010	Erosion Control	Lump Sum	LS
734E0604	High Flow Silt Fence	120	Ft
734E0610	Mucking Silt Fence	8	CuYd
734E0620	Repair Silt Fence	30	Ft

PCN i7K3 - US 14A

BID ITEM	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	50	Ft
110E0500	Remove Pipe Culvert	2	Ft
110E1010	Remove Asphalt Concrete Pavement	155.9	SqYd
120E0010	Unclassified Excavation	180	CuYd
230E0020	Contractor Furnished Topsoil	57	CuYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
260E2010	Gravel Cushion	132.3	Ton
380E1000	6" Miscellaneous PCC Pavement	11.7	SqYd
450E8008	18" CMP to RCP Transition, Furnish	1	Each
450E8010	18" Pipe Transition, Install	1	Each
634E0010	Flagging	120.0	Hour
634E0110	Traffic Control Signs	294.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0420	Type C Advance Warning Arrow Board	1	Each
650E3090	Type B9 Concrete Curb	50	Ft
650E4090	Type C9 Concrete Gutter	20	Ft
650E4390	Type D49 Concrete Curb and Gutter	1,198	Ft
650E4689	Modified Type P9 Concrete Gutter	38	Ft
670E4200	Type M Median Drain	1	Each
670E4205	Type M Frame and Grate Assembly	1	Each
734E0131	Type 1 Turf Reinforcement Mat	14.9	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,375	Ft

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 guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <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 necessary.

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

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/DisplavRule.aspx?Rule=41:10:04

COMMITMENT E: STORM WATER

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

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.

6-1.13, and ARSD 74:27:10:06. 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.

STATE OF	OF PROJECT		TOTAL
SOUTH DAKOTA	014A-451 & 473-451	Non	2/27

Construction activities constitute less than 1 acre of disturbance.

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-

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

State Historic Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

Action Taken/Required:

All earth disturbing activities 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 100 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.

The Contractor is responsible 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 S: FIRE PREVENTION IN THE BLACK HILLS AREA

This project is located within the Black Hills Forest Fire Protection Boundary.

Action Taken/Required:

The Contractor will adhere to the "Special Provision for Fire Plan".

UTILITIES

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

If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the Engineer to determine modifications that will be necessary to avoid utility impacts.

CLEANOUT PIPE CULVERT

Material in existing pipe culvert will be cleaned out by water flushing or other approved methods.

Material removed from the pipe culvert will become property of the Contractor for disposal.

The Contractor will implement appropriate sediment control measures prior to water flushing to prevent discharges from the project boundaries.

The pipe culvert will be cleaned to the satisfaction of the Engineer.

All costs to dewater, clean pipe, and dispose of removed materials will be incidental to the contract unit price per each for "Cleanout Pipe Culvert".

TABLE OF CLEANOUT PIPE CUVLERT – PCN i7HY (SD 473)

Location	Pipe Size and Material	Quantity (Each)
MRM 91.34 – North Pipe	60" CMP	1
	Total:	1

CONTROLLED DENSITY FILL – PCN i7HY (SD 473)

Controlled density fill will be in conformance with Section 464 of the Specifications.

The controlled density fill will be used to backfill the pipes and fill voids in the riprap to contain embankment material. Voids will be filled at the same time that riprap is being placed.

TABLE OF QUANTITIES – PCN i7HY (SD 473)

Location	Class C Riprap (Ton)	Controlled Density Fill (CuYd)
West of SD473, Inlet of Twin 60" CMP	30	10
Totals:	30	10

UNCLASSIFIED EXCAVATION - PCN i7K3 (US 14A)

The quantity of Unclassified Excavation provided in these plans is for the necessary removal of materials required to install the new curb and gutter along US Hwy 14A and to construct the drainage channel behind the curb and gutter near Maitland Road. The excavated material will be used to back fill the curb and gutter as needed.

The estimated amount of Unclassified Excavation for each location is shown in the Table of Quantities. No measurement will be made in the field for the Unclassified Excavation quantity.

Approximately 120 cubic yards of excess material will be generated from the area near Central City. This waste material will become the property of the Contractor.

WATER FOR GRANULAR MATERIAL - PCN i7K3 (US 14A)

The cost of water for compaction of the granular material will be incidental to the contract unit price per ton for Gravel Cushion. Water for Granular Material will be applied at the rate of 20 gallons per cubic yard.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	014A-451 & 473-451	Non	3/27

																STATE OF	PROJECT	SHEET	Ĩ
TABLE OF QU	JANTITIES –	PCN i7K3	<u>(US 14A)</u>													SOUTH DAKOTA	014A-451 & 473-451	Non	
				Remove			Remove		Type D49	Modified							7		
				Asphalt	Contractor		Concrete	Remove	Concrete	Type P9		Type B9		Type M	18" CMP	Type 1 Turf			
			Unclassified	Concrete	Furnished	Gravel	Curb and/or	Pine	Curb &	Concrete	Type C9	Concrete	6" Misc PCC	Median	to RCP	Reinforcemer	ıt.		
			Freevetier	Devement	Teneoil	Cushian	Cuttor	Culucut	Cuttor	Cuttor	Cuttor	Curk	Deversent	Drain	Tronsition	Mat			
			Excavation	Pavement	Topson	Cusnion	Gutter	Cuivert	Gutter	Gutter	Gutter	Curb	Pavement	Drain	Transition	iviat			
Location	Station to	Station	CuYd	SqYd	CuYd	Ton	Ft	Ft	Ft	Ft	Ft	Ft	SqYd	Each	Each	SqYd			
Central City	2+42	13+24	149	119.8	27	119.7		2	1080	38			11.7	1	1	14.9			
Maitland Rd	20+18	21+48	31	36.1	30	12.6			118		20								
Deadwood	(Silver	ado)					50					50							
		Totals:	180	155.9	57	132.3	50	2	1198	38	20	50	11.7	1	1	14.9	7		

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.

Set up Traffic Control with the following requirements/restrictions:

- Use Standard Plate 634.47 for curb and gutter work in Deadwood near the Silverado.
- All other sites (SD 473, Central City, and Maitland Road) will be reopened to two-way traffic during non-working hours. During nonworking hours, the Contractor will need to close the shoulders to traffic to delineate drop-offs.

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 construction operations will be conducted in the general direction of traffic movement.

Prior to nightfall, all traffic control will be removed from the roadway.

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.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 5 minutes at the flagger station.

It is required that the flaggers be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. All costs associated with this will be incidental to the contract unit price per hour for "Flagging".

INVENTORY OF TRAFFIC CONTROL SIGNS – PCN i7HY (SD 473)

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

		CONVENTIONAL ROAD				
SIGN CODE	SIGN DESCRIPTION	NUM BER	SIGN SIZE	SQFT PER SIGN	SQFT	
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0	
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0	
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0	
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0	
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0	
		CON TRAFF	/ENTIONAL IC CONTRO SQFT	Road L Signs	137.0	

INVENTORY OF TRAFFIC CONTROL SIGNS – PCN i7K3 (US 14A)

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

		CONVENTIONAL ROAD				
SIGN CODE	SIGN DESCRIPTION	NUM BER	SIGN SIZE	SQFT PER SIGN	SQFT	
W4-2	LEFT or RIGHT LANE ENDS (symbol)	1	48" x 48"	16.0	16.0	
W16-2P	FEET (supplemental distance plaque)	4	30" x 24"	5.0	20.0	
W20-1	ROAD WORK AHEAD	4	48" x 48"	16.0	64.0	
W20-4	ONE LANE ROAD AHEAD	4	48" x 48"	16.0	64.0	
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	1	48" x 48"	16.0	16.0	
W20-7	FLAGGER (symbol)	4	48" x 48"	16.0	64.0	
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0	
G20-2	END ROAD WORK	4	36" x 18"	4.5	18.0	
CONVENTIONAL RC TRAFFIC CONTROL S SQFT			ROAD _ SIGNS	294.0		

STATE OF	STATE OF PROJECT		TOTAL SHEETS
SOUTH DAKOTA	014A-451 & 473-451	Non	5/27

REMOVE AND REPLACE TOPSOIL - PCN i7K3 (US 14A)

Prior to beginning curb and gutter installation, a 4" depth of topsoil will be removed or bladed down the respective inslope and left in a windrow a maximum of 10' from the edge of the existing shoulder. Following completion of construction, topsoil will be spread evenly over the disturbed areas.

All costs associated with removing and replacing the topsoil along areas to be resurfaced will be incidental to the contract lump sum price for "Remove and Replace Topsoil".

CONTRACTOR FURNISHED TOPSOIL – PCN i7K3 (US 14A)

It is anticipated that topsoil will be needed for the disturbed areas. The Contractor will be required to furnish and place 4 inches of topsoil on the newly graded area and areas as determined by the Engineer during construction.

Contractor furnished topsoil will be free from stones, coarse gravel, or similar objects larger than 3/4 inch in diameter. Brush, stumps, roots, wood, objectionable weeds, liter, or any other material which may be harmful to plant growth will not be allowed. Organic material will be decomposed.

All costs to furnish and place the Contractor furnished topsoil will be incidental to the contract unit price per cubic yard for "Contractor Furnished Topsoil".

EROSION CONTROL

All costs for the erosion control work for furnishing, placing, and maintaining erosion control including equipment, labor, seeding and fertilizing 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.

Mycorrihizal 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 unit price per pound for the corresponding permanent seed mixture.

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

Product	Manufacturer
MycoApply	Mycorrhizal Applications, Inc. Grants Pass, OR Phone: 1-866-476-7800 <u>www.mycorrhizae.com</u>
AM 120 Multi Species Blend	Reforestation Technologies Int. Gilroy, CA Phone: 1-800-784-4769 <u>www.reforest.com</u>
LALRISE Prime and Max WP	Lallemand Specialties Inc. Milwaukee, WI Phone: 1-844-590-7781 <u>www.lallemandplantcare.com</u>

Fertilizing

A commercial fertilizer with a minimum guaranteed analysis of 13-13-13, 18-46-0, 11-52-0, or an approved alternate fertilizer sold for use as a lawn starter fertilizer will be applied to all areas designated for permanent seeding.

The application rate of fertilizer will be 3 pounds per 1,000 square feet.

Permanent Seeding

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways.

Type F Permanent Seed Mixture will consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	7
Green Needlegrass	Lodorm, AC Mallard Ecovar	4
Sideoats Grama	Butte, Pierre	3
Blue Grama	Bad River	2
Oats or Spring Wheat: April through May;		10
Winter Wheat: August through November		
	Total:	26

Fiber Mulching

Fiber mulch will be seeding.

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

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

All costs for the additional tackifier added to the fiber mulch including labor, equipment, and materials will be incidental to the contract lump sum price for "Erosion Control".

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

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

	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	014A-451 & 473-451	Non	6/27

Fiber mulch will be applied in a separate operation following permanent

EROSION CONTROL WATTLE - PCN i7K3 (US 14a)

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

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

Erosion control wattles will remain on the project to decompose.

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

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 - PCN i7K3 (US 14A)

Station	Location	Diameter (Inch)	Quantity (Ft)	
2+42 to 13+24 R	Perimeter Control	12	1085	
20+18 to 21+48 R	Perimeter Control	12	130	
9+85 L	Perimeter Control	12	60	
	Additional Quantity:	12	100	
		Total:	1375	

HIGH FLOW SILT FENCE - PCN i7HY (SD473)

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.

TABLE OF HIGH FLOW SILT FENCE – PCN i7HY (SD473)

Location	Location	Quantity (Ft)
MRM 91.04+0.3 L	Inlet Protection of Twin 60" CMP	60
MRM 91.04+0.3 R	Outlet of Twin 60" CMP	60
	Total:	120

REPAIR SILT FENCE

Silt fence will be repaired if needed in accordance with Standard Plate 734.05 at the locations listed in the Table of High Flow Silt Fence.

MUCKING SILT FENCE

Mucking silt fence will consist of removing muck trapped by the silt fence and spreading the material evenly over the adjacent area to conform to the existing grade.

REMOVE SILT FENCE

Silt fence will be removed when vegetation is established or as directed by the Engineer. Some or all of the silt fence may be left on the project until vegetation is established.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	014A-451 & 473-451	Non	7/27

LEGEND

Anchor Antenna Approach Assumed Corner Azimuth Marker BBQ Grill/ Fireplace Bearing Tree Bench Mark Box Culvert Bridge Brush Buildings Bulk Tank Cattle Guard Cemetery Centerline Cistern Clothes Line Control Point Commercial Sign Double Face Commercial Sign One Post Commercial Sign Overhead Commercial Sign Two Post Concrete Symbol Creek Edge Curb/Gutter Curb Dam Grade/Dike/Levee Deck Edge **Ditch Block** Doorway Threshold Drainage Profile Drop Inlet Edge Of Asphalt Edge Of Concrete Edge Of Gravel Edge Of Other Edge Of Shoulder Elec. Trans./Power Jct. Box Fence Barbwire Fence Chainlink Fence Electric Fence Misc. Fence Rock Fence Snow Fence Wood Fence Woven Fire Hydrant Flag Pole Flower Bed Gas Valve Or Meter Gas Pump Island Grain Bin Guardrail Guide Sign One Post Guide Sign Two Post Gutter Guy Pole Haystack

File - ...\SD473 MRM 91.3\Leaend.da

 \leftarrow 盘

0

◬

▲

Ø

⊿

62033

╞

+

©

A B

b

المحصر

þ

_ _ _ _

......

_ _ _ _

_

_ . _ .

P

ත

7777

0

0

þ

þ

22222 ₽ ≫

Hedge	62223
Highway ROW Marker	
Interestate Class Cate	7-2
	N -
Iron Pin	\odot
Irrigation Ditch	
Lake Edge	
	•
Malibox	
Manhole Electric	0
Manhole Gas	0
Manhole Misc	0
Manhole Sanitary Sewer	
Manhole Sanitary Sewer	•
Mannole Storm Sewer	Ø
Manhole Telephone	0
Manhole Water	0
Merry-Go-Round	*
Microwaye Radio Tower	· · · · · · · · · · · · · · · · · · ·
	4
MISC. LINE	
Misc. Property Corner	4
Misc. Post	0
Overhang Or Encroachment	
Overhead Utility Line	— OH —
	0
Parking Meter	
Pedestrian Push Button Pole	0
Pipe With End Section	→ — →
Pipe With Headwall	— ——
Pipe Without End Section	
	~
Playground Slide	
Playground Swing	⊁ + к
Power And Light Pole	+
Power And Telephone Pole	<u> </u>
Power Meter	í li
Power Dele	ц Ц
	<u>بحر</u>
Power Pole And Transformer	- <u></u> - <u></u> -
Power Tower Structure	∆
Propane Tank	
Property Pipe	\odot
Property Pipe With Can	Ĩ
Property Pipe With Cap	e e
Property Stone	PS
Public Telephone	র
Railroad Crossing Signal	-\$4
Railroad Milepost Marker	
Railroad Profile	
Rainoad Fronic	_
Railfoad R.O.W. Marker	
Railroad Signs	Þ
Railroad Switch	Ľ
Railroad Track	
Railroad Trestle	
Pobar	A
Rebar With Cap	
Reference Mark	A
Regulatory Sign One Post	þ
Regulatory Sign Two Post	Ę
Retaining Wall	Ч
Diaron	
ripiap	aaab
River Edge	
Rock And Wire Baskets	
Rockpiles	0 a Bar
Satellite Dish	4
· · · · · · · · · · · · · · · · · · ·	

Septic Tank	4
Shrub Tree	8
Sidewalk	
Sign Face	
Sign Post	0
Slough Or Marsh	<u>ailliu</u> — — <u>ailliu</u> ailliu =
Spring	A
Stream Gauge	ø
Street Marker	
Subsurface Utility Exploration Test Hole	
Telephone Fiber Optics	— T/F —
Telephone Junction Box	\bigcirc
Telephone Pole	Ø
Television Cable Jct Box	Ø
Television Tower	华
Test Wells/Bore Holes	۸
Traffic Signal	☆
Trash Barrel	Ū
Tree Belt	\sim
Tree Coniferous	*
Tree Deciduous	6
Tree Stumps	٨
Triangulation Station	⊿
Underground Electric Line	— P —
Underground Gas Line	— G —
Underground High Pressure Gas Line	— HG —
Underground Sanitary Sewer	— s —
Underground Storm Sewer	= s =
Underground Tank	_
Underground Telephone Line	— т —
Underground Television Cable	— TV —
Underground Water Line	— W —
Warning Sign One Post	þ
Warning Sign Two Post	þ þ
Water Fountain	l
Water Hydrant	O ²
Water Meter	()
Water Tower	
Water Valve	0
Water Well	\odot
Weir Rock	
Windmill	8
Wingwall	
Witness Corner	60

SDOT

PROJECT 014A-451 & 473-451 SECTION SHEET

8/27

Plotting Date:

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

0-0-0-0-0-0-
000000

Drainage Arrow

Remove Concrete Pavement

Remove Concrete Driveway Pavement

Remove Asphalt Concrete Pavement

Remove Concrete Sidewalk

Remove Concrete Median Pavement

Remove Concrete Curb and/or Gutter

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

	/	/		
X	$\langle \rangle$	\bigotimes	\bigotimes	\bigotimes
X,	<u>, ×</u>	7	J.	Ç





٢	٦
•	1

MRM 91.4+0.3 Retain Twin 60" CMP

MRM 91.4+0.3 Cleanout Pipe Culvert (North Pipe)

N

MRM 91.4+0.3 L Install Class C Riprap (30 Ton) & Controlled Density Fill (10 CuYd) MRM 91.4+0.3 L Install High Flow Silt Fence at inlet and outlet ends of pipe (120 Ft)

LE 1 Martin MRM 91.04+0.3 GF&P

---- High Flow Silt Fence





Non

Plotting Date: 04/26/2024



						SD 🗾	PROJECT	SECTION	SHEET
							04/26/2024	Non	10/27
						Plotting Date:	04/26/2024		
					r			- -	·
5385		- 1 1 1	Install Class C Rip	-¦	, ,			- 1 	
	G	₩ ₩ ₩	<pre></pre>	tý Fill					
5380		/		¥57			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 	
							· · · · · · · · · · · · · · · · · · ·		
5375		 	· · ·	<u>A()</u>	Existing South	DU CMP Pipe	· · · · · · · · · · · · · · · · · · ·	 	
5370 120		80	 	40	0		<u>_</u>	-40	53
5385		 		1			1	1	5:
			Install Class C R	iprap —					



2+42-18' R to 13+24-18' R Install Type D49 Curb and Gutter and Median Openings (See Curb and Gutter Layout)

9+85-25' L Remove 2'-18" CMP

9+85-22.6' L Install 18" CMP to RCP Transition (Between Existing Pipe and Median Drain)

9+85-25' L Install Type M Median Drain and Type M Frame & Grate



DOT	01
Plotting Date:	04/26/2024

PROJECT	SECTION	SHEET
014A-451 & 473-451	Non	11/27

CURB AND GUTTER LAYOUT

Note: All curb and gutter shown on this sheet is Type D49 except as noted.

(4)

3)

- 2+42-18' R Begin Tapered C&G TC Elev 4864.39 (Theor) 1
- 2+48-18' R End Tapered C&G Begin Curved C&G TC Elev 4864.21 2

2

- 3 7+72-18' R End Curved C&G Begin Modified Type P9 Gutter TC Elev 4847.60 (Theor.)
- 7+91-18' R End Modified Type P9 Gutter Begin Str C&G TC Elev 4847.03 (Theor.) 4

- 5 12+99-18' R End Str C&G Begin Modified Type P9 Gutter TC Elev 4830.17 (Theor.)
- 13+18-18' R End Modified Type P9 Gutter Begin Tapered C&G TC Elev 4829.45 (Theor.) 6

- 12' Eastbound US 14A ç

SD	PROJECT	SECTION	SHEET
DOT	014A-451 & 473-451	Non	12/27

7 13+24-18' R End Tapered C&G TC Elev 4829.23 (Theor.) (\mathbb{N}) 67 (5)





CURB AND GUTTER LAYOUT

Note: All curb and gutter shown on this sheet is Type D49 except as noted.

- 20+18-26' L Begin Tapered C&G TC Elev 4864.39 (Theor) 1
- 20+24-26' L End Tapered C&G Begin Curved C&G TC Elev 4864.21 2

- 3 21+26-26' L End Curved C&G Begin Tapered C&G TC Elev 4847.60
- 21+33-26' L End Tapered C&G Begin Type C9 Gutter TC Elev 4847.03 (Theor.) 4
- 21+48-38' L End Type C9 Gutter FL 4847.03 ± (Theor.) 5



CURB AND GUTTER LAYOUT









Plotted From - trrc11626 File - ...\C. City CG_Tdgn\Design.c

							SD		PROJECT	SECTION	SHEET
	Curb and Gu	utter ar	nd Ditch	near Mai	tland Roa	ad L		04/26/2024		Non	16/27
							lotting bator	0 HEOLOL I			
4800	·	ti		۲		·					4800
		10 11 11 13			1 1 1		1			1	
4795		Drc 479				1 1 1 4			 	 - 	4795
					1 1 1 1					1 1 1	
4790				 	 						4790
 					 	1 1 1	- - - - - -				
4785					 	 	 		 	 	4785
4780	90			, , , , ,	, , , , ,	: ! ! 	40	 		21+50) 4780
	-00	-40		(ي ب		τU		č	JU .	
4000			2 2				۹				
48UU		.96.5(33.67 797.0 796.9 796.9			 	 	 			4800
		44	, 14 , 14 , 14 , 14		~	1 1 1		1			
4795	· · · · · · · · · · · · · · · · · · ·	41.67		; 							4795



MODIFIED TYPE P9 CONCRETE GUTTER



The stated radii on the plans and cross sections refer to this line and it will also be the basis for horizontal linear foot measurement and payment.



TRANSVERSE SECTION

GENERAL NOTES:

The concrete for the Modified Type P9 Concrete Gutter will comply with the requirements of the Standard Specifications for Class M6 Concrete.

When concrete gutter longitudinally adjoins new concrete pavement, the method of attachment will be by one of the methods shown on Standard Plate 380.20.

Transverse contraction joints will be constructed at 10' intervals in the concrete gutter except when concrete gutter is constructed adjacent to mainline PCC pavement. When concrete gutter is constructed adjacent to mainline PCC pavement, a transverse contraction joint will be constructed in the concrete autter at each mainline PCC pavement transverse contraction joint location.

When concrete gutter is placed monolithically with mainline PCC pavement. the transverse contraction joints in the concrete gutter will be sawed and sealed the same as the transverse contraction joints in the mainline PCC pavement.

When concrete gutter is not placed monolithically with the mainline PCC pavement and when the adjacent mainline surfacing is not PCC concrete, the transverse contraction joints in the concrete gutter will be 1 1/2 inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint will be at least 1/4 the thickness of the concrete.

Curb along 6" Miscellaneous PCC Pavement will be poured monolithically and will be measured and paid as 6" Miscellaneous PCC Pavement.















SECTION SHEET

Non

18/27

Plotting Date:

Posted	Spacing of	Taper	Spacing of
Speed	Advance Warning	Length	Channelizing
Prior to	Signs		Devices
Work	(Feet)	(Feet)	(Feet)
(M.P.H.)	(A)	`(L) ´	(G)
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50
55	750	660	50
60 - 65	1000	780	50



Published Date: 2024	S D D O T	LANE CLOSU	RE WITH FLAGGER PROVID	ED PLATE NUMBER 634.23 Sheet of	Publishe	d Date: 2024		S D D O T	
The length of A may be adjusted to fit field conditions.		'		January 22, 2021					
The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.				$\sqrt{q_h}$					
Channelizing devices and flaggers wi be used at intersecting roads to control intersecting road traffic as required.	*			ROAD WORK AHE AD					
For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be us The ROAD WORK AHEAD and the E WORK signs may be omitted for shor duration operations (1 hour or less). For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) will be disp in advance of the liquid asphalt areas Flashing warning lights and/or flags may be used to call attention to the advance warning signs. The channelizing devices will be drun or 42" cones. Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area. Z-020	ed. ND ROAD ayed s		A 100' Source A	Buffeet Buffee	 Refle Chan 4" Wh Pave The char cones or 42" cone drums sh will not b hours. Tempora will be us must rem The leng adjusted 	ectorized Drum anelizing Device hite Temporary ment Marking anelizing devices w drums. Is may be used in nown in the taper in e used during nigh any pavement mark sed if traffic contro hain overnight. th of A and L may to fit field conditio	will be 42 place of t f setup ht time kings l be ns.	" he	
60 - 65 1000 50 ■ Flagger ■ Channelizing Device					60 - 65 * Spaci	1000 ng is 40' for 42" co	780 ones.	50	*
0 - 30 200 25 35 - 40 350 25 45 500 25 50 500 50 55 750 50					0 - 30 35 - 40 45 50 55	200 350 500 500 750	180 320 600 600 660	25 25 25 50 50	*
Speed Advance Warning Channeliz Prior to Signs Devices Work (Feet) (Feet) (M.P.H.) (A) (G)	ng	Warning in opposi as below	g sign sequence site direction same w.		Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Taper Length ((Feet) (L)	Spacin Channe Devic (Fee (G)	ig of lizing ces et))

File - ...\C. City CG_T\dgn\StdPlate.dgn

From - trrc11626

4-LANE	UN

Ý

1





ile - ...\C. City CG T\dan\StdPlate.d







PROJECT

014A-451 & 473-451

SECTION SHEET

Non

21/27

Plotting Date:







TE G	UTTER		
ttom	Vertical Depth of Concrete at Edges	Cu. Yd. Per	Lin. Ft. Per
	Т	Lin. Foot	Cu. Yd.
	7%"	0.04982	20.1
	7%"	0.07966	12.6
	7%"	0.11828	8.5

-Outlet end of type D concrete gutter will be warped in the field to provide proper drainage into type C concrete gutter without creating an excessive hump or dip at the edge of the driving surface.

December 23, 2019

TYPE C CONCRETE GUTTER

PLATE NUMBER 650.10 Sheet I of I













Plotting Date: 04/26/2024







PROJECT

014A-451 & 473-451

SECTION SHEET











SECTION SHEET

Non 26/27

Plotting Date:

CUT OR FILL SLOPE INSTALLATION			
Slope	Spacing (Ft.)		
1:1	10		
2:1	20		
3:1	30		
4.1	40		





only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the s 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 1 contract unit price per cubic yard for "Remove Sediment". All costs for furnishing and installing the erosion control wattles including labor, equipment, and mat be incidental to the contract unit price per foot for the corresponding erosion control wattle contract i All costs for removing the erosion control wattle from the project including labor, equipment, and mat be incidental to the contract unit price per foot for "Remove Erosion Control Wattle".	spacing the first rater y as the terials will item. aterials will ruary 14, 2020 TE NUMBER 7 34.06
only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the s 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 contract unit price per cubic yard for "Remove Sediment". All costs for furnishing and installing the erosion control wattles including labor, equipment, and mat be incidental to the contract unit price per foot for the corresponding erosion control wattle contract I All costs for removing the erosion control wattle from the project including labor, equipment, and ma be incidental to the contract unit price per foot for "Remove Erosion Control Wattle".	spacing the first vater y as the terials will item. aterials will
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the sof 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 a contract unit price per cubic yard for "Remove Sediment". All costs for furnishing and installing the erosion control wattles including labor, equipment, and mat be incidental to the contract unit price per foot for the corresponding erosion control wattle contract in All costs for removing the erosion control wattle from the project including labor, equipment, and mat be incidental to the contract unit price per foot for "Remove Erosion Control Wattle". 	spacing the first vater y as the terials will item. aterials will
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft the stakes along the wattles will be 3' to 4'. Where installing running lengths of wattles, the Contractor will but the second wattle tightly against and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 a contract unit price per cubic yard for "Remove Sediment". All costs for furnishing and installing the erosion control wattles including labor, equipment, and mat be incidental to the contract unit price per foot for the corresponding erosion control wattle contract in All costs for removing the erosion control wattle from the project including labor, equipment, and mat be incidental to the contract unit price per foot for "Remove Erosion Control Wattle". 	spacing the first vater y as the terials will item. aterials will
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 a contract unit price per cubic yard for "Remove Sediment". All costs for furnishing and installing the erosion control wattles including labor, equipment, and mat be incidental to the contract unit price per foot for the corresponding erosion control wattle. All costs for removing the erosion control wattle from the project including labor, equipment, and mat be incidental to the contract unit price per foot for "Remove Erosion Control Wattle". 	spacing the first vater y as the terials will item. aterials will
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 mat be incidental to the contract unit price per foot for the corresponding erosion control wattle". 	spacing the first vater y as the terials will item. aterials will
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 a contract unit price per cubic yard for "Remove Sediment". All costs for furnishing and installing the erosion control wattles including labor, equipment, and mat be incidental to the contract unit price per foot for the corresponding erosion control wattle contract in All costs for removing the erosion control wattle from the project including labor, equipment, and mat be incidental to the contract unit price per foot for "Remove Erosion Control Wattle". 	spacing the first vater y as the terials will item. aterials will
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 mat be incidental to the contract unit price per foot for the corresponding erosion control wattle contract in the set of the set of the set. 	spacing the first vater y as the ierials will item.
only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 a contract unit price per cubic yard for "Remove Sediment".	spacing the first vater vas the
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary 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 be a stated by the Engineer. 	spacing the first rater y as the
 only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the soft 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary determined by the Engineer. 	spacing the first /ater / as
only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the sof 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 and will not overlap the ends. See Detail C. The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm w	spacing the first
only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the s 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	spacing the first
only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the s	spacing
The stakes will be 1"x2" or 2"x2" wood stakes, however, other types of stakes such as rebar may be	e used
under the wattle, and then compact the soil excavated from the trench against the wattle on the uph See Detail B.	nill side.
around the ends.	t ho soon
At ditch installations, point A must be higher than point B to ensure that water flows over the wattle a	and not
GENERAL NOTES: At cut or fill slope installations, wattles will be installed along the contour and perpendicular to the w	vater flow

Plotted From - trrc11626 File - ...\C. City CG_T\dgn\StdPlate.dgn

SD
Plotting Date:

Plotting Date: 04/26/2024