

REGION	STATE	PROJECT	SHEET	TOTAL
NO.	0F	2016 009	NO.	SHEEL
8	S.D.	2010-008	1	26
		COVER SHEET		
		COVER SHEET		

1	COVER SHEET
2	ESTIMATE OF QUANTITIES
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ESTIMATE OF QUANTITIES

BID

ITEM #	ITEM	QUANTITY	UNIT		
	REMOVALS AND GRADING]	
1.	MOBILIZATION	1	LS		
2.	SAW EXISTING CONCRETE	100	LF		
3.	SAW EXISTING ASPHALT	125	LF		
4.	REMOVAL OF CONCRETE PAVEMENT	430	SY		
5.	REMOVAL OF ASPHALT PAVEMENT	2505	SY	AVENENT	PLACEMENT OF 8" CON
6.	REMOVAL OF CURB AND GUTTER	150	LF	FAVEMENT	
7.	UNCLASSIFIED EX.	1	LS	LOCATION	REMOVE(SY)
8.	UNDERCUTTING	50	CY		
9.	TOPSOIL	1	LS	4+30 RT.	15.3
10.	WATER FOR EMBANKMENT	10	K GAL	- 5+64 KI.	17.0
	OR GRANULAR MATERIAL			TOTAL	32.3
	EROSION CONTROL				
11.	SEEDING, MULCHING, FERTILIZER	1	LS	-	
12.	VEHICLE TRACKING CONTROL	1	EA		
13.	INLET SEDIMENT CONTROL	1	EA		
14.	SILT FENCE	600	LF	TABLE OF REMOVE AND RE	PLACEMENT OF 6" CON
15.	GEOTEXTILE FABRIC	500	SY		
	TRAFFIC CONTROL				011(01)
				0+95 RT.	24
16.	TRAFFIC CONTROL	1305	UNITS	1+67 TO 6+32 RT.	<u>312.6</u>
17.	TRAFFIC CONTROL MISC.	1	LS		336 6SV
	SURFACING				300.001
18.	8" PCC PAVEMENT	2470	SY		
19.	8" PCCP FILLET SECTION	1142	SF		
20.	CONCRETE C & G TYPE B66	150	LF		
21.	8" APPROACH PAVEMENT	300	SF	TABLE OF 8" PCC FILLET SEC	CTION
22.	6" SIDEWALK	3930	SF	STATION TO STATION	RADIUS
23.	AGGREGATE BASE COURSE	2597	SY	SW COR. SUMMIT & 21ST	31'
24.	INSERT STEEL BARS	125	EA	SE COR. SUMMIT & 21ST	50'
25.	DETECTABLE WARNING PANELS	32	SF]	
					TOTAL

TABLE OF 8" PCC PAVEMENT

<u>STREET</u> SUMMIT ST 21st ST.		<u>QUANTITY (SC</u> 129 <u>2341</u>	
	TOTAL	2470	

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		QUANTITIES		

CRETE APPROACH

REPLACE (SF)

139 <u>157</u>

296

NCRETE SIDEWALK

REPLACE (SF)

236 <u>3690</u>

<u>3926 SF</u>

QUANTITY (SF) 327 <u>815</u>

1142 SF

Q YDS)

SPECIFICATIONS TO BE USED

City of Yankton Standard Specifications and the Standard Specifications for Roads and Bridges 2004 Edition and Required Provisions, Supplemental Specifications, and/or Special Provisions as included in the Proposal.

UTILITIES

Location and protection of all underground utilities is the Contractors responsibility. The Contractor will be required to coordinate work with the utility companies. Existing utilities and service lines that coincide with proposed underground main locations are to be located in advance by the contractor such that proposed underground mains can be adjusted to avoid conflict.

Utility locations are coordinated by calling: 1-800-781-7474 (One Call)

SEQUENCE OF OPERATIONS

The Contractor shall use the following sequence of operations that are listed on the traffic control sheets unless an alternate is approved by the Engineer. An alternate sequence must be submitted in writing a minimum of one week prior to the preconstruction meeting.

Aggregate Base Course will be used in lieu of Service Gravel as directed by the engineer to temporarily re-open portions of streets after the pavement is removed.

To limit street closure, the project must be corrdinated with the RR xing work as much as possible.

REMOVAL OF EXISTING CONCRETE PAVEMENT

The concrete pavement shall be disposed of by the Contractor at a site approved by the Engineer. Payment for concrete removal is included in the contract unit price per square yard for "Removal of Concrete Pavement". Payment shall be at the contract unit price per square yard, regardless of variations in thickness. Joints shall be sawed wherever existing concrete is to be connected to new construction.

When asphalt is laid over concrete pavement, removal of the asphalt surfacing shall be incidental to the unit price for "Removal of Concrete Pavement".

REMOVAL OF EXISTING ASPHALT PAVEMENT

The asphalt concrete pavement shall be disposed of by the Contractor at a site approved by the Engineer. Payment for asphalt mat removal is included in the contract unit price per square yard for "Removal of Asphalt Concrete". Payment shall be at the contract unit price per square yard, regardless of variations in thickness.

6" CONCRETE SIDEWALK

Concrete sidewalk shall be constructed in accordance with Section 651 of Standard Specifications. Base Course material, two (2) inches thick, shall be placed beneath the sidewalk.

GENERAL MAINTENANCE OF TRAFFIC

1. Storage of vehicles and equipment shall be as near the right-of-way as possible. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the City, and to the satisfaction of the Engineer.

2. The Contractor shall designate an employee whose responsibility is the maintenance of traffic, 24 hours a day and 7 days a week. The person so designated must have training and experience in the field of construction traffic control and be knowledgeable about the Manual on Uniform Traffic Control Devices (MUTCD). The cost of the traffic control person shall be incidental to the contract lump sum price for Traffic Control Miscellaneous. The employee selected must be approved by the Engineer. The name, phone number, and location of person(s) shall be provided to the county sheriff's department and the local police department. Road closure and barricading shall immediately be reported to the local police department by the Contractor. Local police department phone number 605-668-5210

3. Work activities during non-daylight hours are subject to prior approval.

4. The contractor shall maintain traffic control every day. The contractor shall have \$200.00 per day deducted from the contract for each day that traffic control is not maintained. If traffic control is not in place when the contractor begins work which requires traffic control, payment for bid item "Traffic Control" will be reduced by 50%.

5. The Contractor shall notify the City of Yankton Street Department prior to construction to enable the city forces to remove and salavage existing traffic control signs. City of Yankton Street Dept. number 605-668-5211

WASTE DISPOSAL SITE

Contractor shall dispose of broken concrete and asphalt generated by this project at the city stockpile site located at 23rd and Kellen Gross Drive. No tipping fee will be assessed to Contractor for broken concrete and asphalt disposed of at this site Concrete and asphalt is to be kept separate from earth material during the removal process. Concrete and asphalt may be mixed.

Asphalt contaminated with soil during the removal process or concrete containing reinforcing steel or contaminated with soil must be disposed of at the Yankton rubble site, 23rd and Kellen Gross Drive. Disposal fees shall be the Contractors responsibility, and considered incidental to other pay items.

The Contractor will be required to use a state permitted solid waste disposal facility. The Contractor can obtain a list of permitted solid waste disposal facilities in the Yankton area or discuss proper disposal of construction and demolition debris by contacting Waste Management Program at 1-(605)-773-3153.

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

UNCLASSIFIED EXCAVATION

Unclassified Excavation will be paid for on a lump sum basis. The bid item for "Unclassified Excavation" shall include removing the existing material to a depth of 14 inches below the new road surface shown on the typical sections. Estimated quantities in cubic yards are shown below. These estimates are based on the assumption of 4 inches of existing Asphalt Pavement concrete being removed separately.

Estimate of 950 cu yds. of removal on 21st. St. Excess material is to be hauled to City property located at 33rd and Douglas Ave.

GENERAL NOTES

The Contractor will be required to raze, remove and dispose of all buildings and foundations, structures, fences, advertising signs, and other obstructions of which any portion are on the right-of-way or Temporary Easements except Utilities and those for which other provisions have been made for removal, in accordance with Section 110 of the Standard Specifications.

The removal and disposal of all buildings, foundations and other obstructions not removed under Incidental Work or on a unit basis shall be considered as subsidiary work to the other Contract Items and no separate payment will be made for their removal and disposal.

The concrete mix shall be Class A40 concrete paving mix when slip form construction is used and Class A45 when formed construction is used.

Portland Cement Concrete Pavement shall have a minimum cement content of 600 pounds per cubic yard and Class C Fly Ash will be excluded.

In lieu of an automatic subgrader operating from a preset line, a motor grader or other suitable equipment may be used to bring the base course to final grade prior to placement of the concrete.

A construction joint shall be sawed whenever new concrete pavement is placed adjacent to existing concrete pavement.

There will be no direct payment for trimming of the Base Course for PCC pavement. The trimming will be considered incidental to the related items required for PCC pavement. Trimming shall be performed as required by Section 380.3c of the Standard Specifications.

An automated paving machine such as a Bidwell, or equivalent, shall be required for main line paving. An air or vibratory screed will not be allowed for main line paving.

PEDESTRIAN TRAFFIC

The Contractor will be required to maintain pedestrian access during construction. Pedestrian access shall be ADA accessible and shall conform to the most recent edition of Manual on Uniform Traffic Control Devices. Access can either be maintained on concrete sidewalk or on a temporary boardwalk. This work may include but is not limited to sawing existing sidewalk to leave half in place, staging sidewalk removal and construction to maintain access, installing safety fence around work areas, and construction and removal of temporary boardwalk. The Contractor shall determine the actual location of temporary access during construction and shall be approved by the Engineer. Payment for all work and associated materials shall be incidental to the contract lump sum price for "Traffic Control Miscellaneous".

ACCEPTANCE TESTING

The City will be responsible for taking the first acceptance test and a backup test if required. All subsequent tests required due to failures will be paid by the Contractor by deducting the cost from the pay request.

CONCRETE JOINT SEALER

Concrete Joint Sealer shall be hot poured elastic joint sealer and shall conform to section 870 of the Standard Specifications. Payment for concrete joint sealer shall be incidental to PCC Pavement and no separate payment shall be made.

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"8" NONREINFORCED CONCRETE PAVEMENT

The Coarse Aggregate shall be Crushed Ledge Rock.

The fine aggregates may require screening as determined by the Engineer.

SURFACING THICKNESS DIMENSIONS

Except as hereinafter set forth, plans square yards will be applied even though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans square yards will not be varied to achieve the required elevation.

CURING OF CONCRETE

Portland Cement Concrete Pavement, Concrete Curb & Gutter, Sidewalks, Valley Gutters, and Fillets shall be cured. All concrete shall be cured in accordance with section 380.3.P2 of the 2004 SDDOT Standard Specifications for Roads and Bridges except as modified in this note. All concrete shall be cured with a White Pigmented Linseed Oil Base Emulsion Compound when cured using the Impervious Membrane Method. Curing compound material shall be in accordance with section 821.1.D.

GEOTEXTILE FABRIC FOR SUBGRADE STABILIZATION

Geotextile fabric shall be installed at locations designated by the engineer underneath the granular base course. The bid item GEOTEXTILE FABRIC has been established to pay for all labor, equipment and material to install the fabric.

Pay quantities for the geotextiles will be paid for at the contract price per square yard in place. Measurement for payment excludes the geotextile used for overlapping as well as seam overlaps. Installation shall be in accordance with the manufacturer's recommendations. Overlap shall be a minimum of 24". The end of the roll shall overlaps shall be 3' min.

The contractor shall not drive equipment directly on top of the geotextile. Should the geotextile be torn or punctured, the damaged area shall be repaired or replaced by the contractor at no expense to the owner. The repair shall consist of a patch of the same type of geotextile a minimum of 3' from the edge of any part of the damaged area. Geotextile fabric shall conform to the requirements listed below. The contractor shall provide a certificate of compliance verifying that the material meets the specification prior to the installation of the fabric.

1. Wide Width Tensile Strength (ASTM D-4595) 3600lb/ft min.

2. Wide Width Tensile Strength at 5% Strain(ASTM D-4595) 1350 lb/ft min.

3. Permittivity (ASTM D-4491) 0.25 sec-1 min.

4. UV Resistance at 500 hours (ASTM D-4355) 70% min.

The City has verified that the following products meet these specifications.

1. Mirafi HP370

2. Propex Getotex 3x3

3. Lumite GTF465

AGGREGATE BASE COURSE

Aggregate Base Course will be supplied by the City of Yankton. Material can be obtained at City stockpile site located at 23rd and Kellen Gross Dr. This material is to be weighed before leaving landfill. The Contractor is to supply his own personnel and equipment to load trucks. Landfill hours are from 8am to 3:45pm. This material to be used under all newly placed concrete /asphalt and to maintain access to intersecting streets and driveways as needed. Unit price shall constitute full compensation for personnel and equipment to load, haul, and place material. Aggregate Base Course shall be compacted to 95% of standard proctor density.

EROSION CONTROL - SILT FENCE NOTES

1. CONSTRUCTION

The work covered by this section consists of furnishing all labor and equipment and the performance of all operations in connection with the construction, maintenance and removal of the silt fence for the control of siltation on the project, complete and in accordance with the plans and standard plates. The Contractor shall be responsible for accomplishing the required construction work on this project in such a manner as to effectively minimize and control water pollution which might be caused by soil erosion from the project. It is intended that these features be maintained in appropriate functional condition from initial construction stages to final completion of the project.

After rainfall events, the Contractor shall take all necessary precautions to prevent silt from being carried away from the project site when water is being pumped out of any area where water is backed up on the project site

In addition to the details shown in the plans, other provisions for controlling erosion may be incorporated.

2. MATERIALS

A. Steel Fence Posts

The steel line posts for field fence shall have a cross section of one and one-half inches by one and one-half inches. The average weight shall be less than 1.33 pounds per linear foot. Paint for steel fence posts shall be the manufacturers standard paint finish.

B. Silt Fabric

The approved brands of engineering fabrics for silt fence are listed below:

Manufacturer/Distributor	Brand Name
Amoco Fabrics & Fibers Co.	Silt Stop
Carthag Mills	FX-325
ing Industries Fabrics	GTF 400 EO
Mirafi Division of Nocolon	700 XG
Nebtec, Inc.	Econofence with netting

3. BACKFILL

All compaction of backfill shall be accomplished with a mechanical tamper or pneumatic tamper. All compacting equipment shall be operated according to the manufacturers recommendations.

4. PAYMENT

Payment shall be based on the lineal foot of silt fence satisfactorily constructed and measured from outside of the end posts. The work completed in accordance with the plans and specifications at the applicable contract price in the bid schedule which price shall constitute full compensation for furnishing all materials, equipment. labor. and tools necessary for completion of the work. The unit price shall also include removing muck from behind the silt fence after rain events and removing the silt fence when it is no longer needed.

EROSION CONTROL - VEHICLE TRACKING CONTROL

1. CONSTRUCTION

The work covered by this section consists of furnishing all labor and equipment and the performance of all operations in connection with the construction of temporary vehicle tracking control on the project, complete and in accordance with the plans and standard plates. The Contractor shall be responsible for accomplishing the required construction work on this project in such a manner as to effectively minimize and control water pollution which might be caused by vehicular tracking of soil. It is intended that these features be maintained in appropriate functional condition whenever vehicles come or go from the construction site where there is dirt exposed.

incorporated.

2. MATERIALS

Aggregate base course shall be used for the temporary vehicular tracking control surface. If necessary 11/2" to 3" rock shall be used for stabilization underneath of the service gravel.

3. LABOR AND EQUIPMENT

All necessary labor and equipment shall be supplied to clean up any dirt or gravel off of the paved roadway surfaces at the end of each day. The contractor shall also remove any service gravel that has dirt mixed in with it from the project site when the tracking control is no longer necessary. Clean service gravel can be incorporated into the base material for the roadbed.

4. PAYMENT

Service gravel shall be paid for at the unit price bid in the contract for service gravel. Unit price for "Temporary Vehicle Tracking Control" shall be the amout paid for each site where the engineer requires the use of the temporary vehicle tracking control for however long it is needed. The Contractor will be charged \$50.00 for each day that dirt is not cleaned off of the street after it is placed or tracked onto the pavement.

INLET SEDIMENT CONTROL

Refer to Standard Plates 734.21 AND 734.16 - Drop inlet sediment filters.

CONCRETE JOINT SEALER

Concrete Joint Sealer shall be hot poured elastic joint sealer and shall conform to section 870 Of the Standard Specifications. Payment for concrete joint sealer shall be incidental to PCC Pavement and no separate payment shall be made.

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In addition to the details shown in the plans, other provisions for controlling erosion may be

DEWATERING AND EROSION CONTROL

Pumping required for the removal of surface water from the work area and/or depressions will be considered incidental to other pay items and not paid for separately. The Contractor shall be responsible for obtaining the required erosion control permits from the South Dakota Department of Environment and Natural Resources.

SITE MAINTENANCE

The Contractor is to keep the project site properly maintained and graded to drain storm water. No standing water is permitted on site. A penalty of \$500/day will be assessed each day standing water is not removed from site. All regulations pertaining to Storm Water Pollution Prevention will be enforced. Direct discharge of storm water into the storm sewer system is not acceptable.

SEEDING

All grass areas disturbed by construction are to be hydromulched. Lump sum price will be for all areas disturbed by Contractor. Price shall also include the cost for fertilizer and fiber mulch, refer to SD-DOT Standard Specs 2004 Edition section 730 and 731. The following will be provided, by the Contractor, for use on the project unless an alternate is approved by the Engineer.

The estimated amount of area to be seeded: 5300 SF

SEED MIXTURE	PURE LIVE SEED/ 1000 FT, SQ
Kentucky Bluegrass	1 pound
Perennial Rye Grass	1 pound
Park Kentucky Bluegrass	1 pound

FERTILIZER AND MULCHING

Fertilizer shall be a guaranteed analysis of 12-24-6. Rate applied shall be 3.2 lbs. per 1000 S.F. All areas shall be wood fiber mulched at a rate of 50 lbs./1000 S.F. with tackifier at a rate of 1.5lbs./1000 S.F. Method of payment will be incidental to the seeding lump sum bid price. Refer to SD-DOT Specs. 2004 Edition-section 731 and 732 for additional requirement for fertilizer and fiber mulch.

SALVAGING, STOCKPILING, AND PLACING TOPSOIL

Existing vegetation shall be salvaged, incorporated and placed with the topsoil as far as practicable.

The areas to be covered with topsoil to a depth of +/- 3 inches comprise all newly graded areas. Material shall be free of rock and debris.

The estimated amounts of salvaged topsoil required to cover the designated areas to the specified depth are as follows:

Table of Topsoil	<u>Cu.Yd</u> .
21⁵t St.	20

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NO.	OF		NO.	SHEETS
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		TYPICAL SECTION		



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		TRAFFIC CONTROL	I	1



PROJECT AREA

ALL FIXED LOCATION SIGNS REMAIN IN PLACE UNTIL PERMANENT PAVEMENT MARKING IS COMPLETE.

PEDESTRIAN TRAFFIC CONTROL TRAFFIC CONTROL DEVICES FOR SIDEWALK CLOSURES AND PEDESTRIAN DETOURS SHALL BE PAID FOR UNDER TRAFFIC CONTROL MISC. (SDDOT STANDARD PLATE #634.33 MAY BE USED AS A GUIDE FOR THESE SITUATIONS)

FIC CO	NTROL BI	DITEM	
	AMOUNT REQUIRED	UNITS PER AMOUNT	SUB TOTAL
	3	27	81
NATE ROUTE	2	27	54
AFFIC	3	30	90
L)	2	15	30
_)	2	15	30
	7	34	238
	3	34	102
	120 L.F.	5 UNITS/L.F.	680
		TOTAL	1305

ROLS FOR ROAD CON	ISTRUCTION
RIPTION	QUANTITY
ES, CONES, VERTICAL PANELS, RNING LIGHTS, DELINEATORS. MARKERS, AND INSTALLATION OF	LUMP SUM



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		TRAFFIC CONTROL		









STORM WATER POLLUTION PREVENTION PLAN

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

- ♦ SITE DESCRIPTION (4.2.1)
- > Project Limits: See Title Sheet (4.2 1.b)
- Project Description: See Title Sheet (4.2 1.a.) \geq
- Site Map(s): See Title Sheet and Plans (4.2 1.f. (1)-(6))
- Major Soil Disturbing Activities (check all that apply) \triangleright
 - Clearing and grubbing
 - Excavation/borrow
 - Grading and shaping
 - Filling
 - Cutting and filling
 - Other (describe):
- > Total Project Area 1.5 acres (4.2 1.b.)
- Total Area To Be Disturbed 1.3 acres (4.2 1.b.) \geq
- \geq Existing Vegetative Cover (%) 0%
- \triangleright Soil Properties: AASHTO Soil Classification (4.2 1. d.)
- > Name of Receiving Water Body/Bodies Missouri River (4.2 1.e.)
- **ORDER OF CONSTRUCTION ACTIVITIES (4.2 1.c.)** **

(Stabilization measures shall be initiated as soon as possible, but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Initiation of final or temporary stabilization may exceed the 14-day limit if earth disturbing activities will be resumed within 21 days.)

- > Special sequencing requirements (see sheet).
- Install stabilized construction entrance(s). ≻
- Install perimeter protection where runoff sheets from the site. \triangleright
- Install channel and ditch bottom protection. \triangleright
- \triangleright Clearing and grubbing.
- Remove and store topsoil. \triangleright
- Stabilize disturbed areas. \geq
- Install utilities, storm sewers, curb and gutter. \geq
- Install inlet and culvert protection after completing storm \geq drainage and other utility installations.
- Complete final grading. \triangleright
- Complete final paving and sealing of concrete. \triangleright
- Complete traffic control installation and protection devices. \triangleright
- > Reseed areas disturbed by removal activities.

EROSION AND SEDIMENT CONTROLS (4.2 2.a.(1)(a)-(f))

(Check all that apply)

- > Stabilization Practices (See Detail Plan Sheets)
 - Temporary or Permanent Seeding
 - Sodding
 - Planting
 - Mulching (Straw or Cellulose Fiber)
 - Erosion Control Blankets or Mats
 - Vegetation Buffer Strips
 - Roughened Surface (e.g. tracking)
 - Gabions-Gabion Mattress
 - C Other

> Structural Temporary Erosion and Sediment Controls

- Silt Fence
- Straw Bale Check
- Temporary Berm
- Temporary Slope Drain
- Straw Wattles or Bolls
- Diversion Channels/Swales
- Channel Liners (TRM)
- Stone Rip Rap Sheet
- Rock Check Dams
- Sediment Traps/Basins
- Inlet Protection
- Outlet Protection
- Surface Inlet Protection
- Curb Inlet Protection
- Stabilized Construction Entrances
- 🗌 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.

\succ Storm Water Management (4.2 2.b., (1) and (2))

Storm water management will be handled by temporary controls outlined in Section 3 above, and any permanent controls needed to meet permanent storm water management needs in the post construction period. Permanent controls will be shown on the plans and noted as permanent.

> Other Storm Water Controls (4.2 2.c., (1) and (2))

Waste Disposal

All liquid waste materials will be collected and stored in sealed metal containers approved by the project engineer. 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 in the field office. The general contractor's representative responsible for the conduct of work on the site will be responsible for seeing 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 individual designated as the contractor's on-site representative 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 in a timely manner by a licensed waste management contractor or as required by any local regulations.

✤ Maintenance and Inspection (4.2.3. and 4.2.4.)

Maintenance and Inspection Practices

- Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
- All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.

> Maintenance and Inspection Practices(Continued)

- silt fence.

Non-Storm Water Discharges (3.0)

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

- \triangleright

- \geq activities.

- Detergents \geq Paints \triangleright
- Metals \triangleright
- \triangleright
- Þ
- \geq Cleaning Solvents
- \triangleright □Wood Cure

Texture

Other

 \triangleright

 \triangleright

 \triangleright

 \triangleright

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 Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches 1/3 of the height of the

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 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 City Engineering Department and contractor's site superintendent are responsible for inspections. Maintenance, repair activities are the responsibility of the contractor. The City Engineering Department will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

Discharges from water line flushing.

> Revenent wash-water, where no spills or leaks of toxic or

hazardous materials have occurred.

Uncontaminated ground water associated with dewatering

Materials Inventory (4.2. 2.c.(2))

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 headings "EROSION AND SEDIMENT CONTROLS" and "SPILL PREVENTION" (check all that apply). > Concrete and Portland Cement

Bituminous Materials Petroleum Based Products

Chemical Fertilizers

Spill Prevention (4.2 2.c.(2))

> 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 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.
 - Vegetation areas not essential to the construction project will be preserved and maintained as noted on the plans.

Hazardous Materials

- Products will be kept in original containers unless the container is not resealable.
- 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, degreasing 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 storm water system or storm water treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, and mixer washout waters will be collected on site and managed to prevent contamination of storm water runoff.

> Product Specific Practices (6.8)

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 Plans. Once applied, fertilizers will be worked into the soil to limit the exposure to storm water. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.

Product Specific Practices (6.8) (Continued)

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 areas on the site. These areas must be self contained and not connected to any storm water outlet of the site. Upon completion of construction washout areas will be properly stabilized.

> Spill Control Practices (4.2 2 c.(2))

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 clean up 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 booms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for clean up 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. The contractor is responsible for ensuring that the site superintendent has had appropriate training for hazardous materials handling, spill management, and cleanup.

> Spill Response (4.2.2 c.(2))

The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into storm water runoff and conveyance systems. If the release has impacted on-site storm water, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens storm water 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 Response (4.2 2 c.(2)) (Continued)

- site.

- activities.

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 reportable spill is a quantity of 25 gallons or more or any spill of oil which: 1) violates water quality standards, 2) produces a "sheen" on a surface water, or 3) causes a sludge or emulsion must be reported immediately to the National Response Center.

Construction Changes (4.4)

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Pollution Prevention Plan (SWPPP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The City Engineer will modify the SWPPP plan (DOT 298) and drawings to reflect the needed changes. Copies of changes will be routed per DOT 298. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.

CITY OF	PROJECT	SHEET NO.	TOTAL SHEETS
YANKTON	2016-008	10-12	26

 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 SD DENR.

Personnel with primary responsibility for spill response and clean up 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

> Any spill of oil or hazardous substance to waters of the state must be reported immediately by telephone to the SD DENR.

♦ <u>CERTIFICATIONS</u>

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.

> City of Yankton

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 6.7.1.C.)

> Prime Contractor

This section is to be executed by the General Contractor after the award of the contract and at least 15 days prior to the beginning of construction. 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 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 6.7.1.a .or b.)

✤ CONTACT INFORMATION

- Contractor Information:
 - Prime Contractor Name:
 - Contractor Contact Name:
 - Address:
 - Address:
 - City: State: Zip:
 - Office Phone: Field: Cell: Fax:

Erosion Control Supervisor

- Name:
- Address:
- Address:
- City: State: Zip:
- Office Phone: Cell: Fax:
- > City Engineer
- Name: Brad Moser
- Business Address: 416 Walnut
- Job Office Location
- City: Yankton State: SD Zip: 57078
- Office Phone: 605-668-5255 Field: Cell: Fax:
- > SD DENR Contact Spill Reporting
 - Business Hours Monday-Friday (605) 773-3296
 - Nights and Weekends (605) 773-3231
- > SD DENR Contact for Hazardous Materials.
 - (605) 773-3153
- > National Response Center Hotline
 - (800) 424-8802.

CITY OF	PROJECT	SHEET NO.	TOTAL SHEETS
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REGION NO.	OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	S.D.	2016-008	13	26
		REMOVAL LAYOUT		

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8	S.D.	2016-008	15	26
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	HITL	REGION STATE NO. OF 8 S.D.	
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REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	S.D.	2016-008	18	26



REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	S.D.	2016-008	19	26
		JOINT LAYOUT		





REGION NO.	STATE PROJECT		SHEET NO.	TOTAL SHEETS
8	S.D.	2016-008	20	26
		DETAILS		



REGION	STATE	PROJECT	SHEET	TOTAL
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8	S.D.	2016-008	21	26
		SW DETAILS		

1. Transition from the the 2% maximum cross slope on the ramp and the pedestrian street crossing grade in this area. The maximum cross slope on the pedestrian street crossing (including the fillet or curb and gutter) is 2% on stop or yield controlled legs and 5% on uncontrolled or

2. Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0% in any direction. Where the turning space is confined at the back of sidewalk (example: 6" curb or building), the turning space shall be 4 foot by 5 foot minimum. The 5 foot dimension shall be in the direction of the ramp run. The grade change between the turning space and the curb ramp must be perpendicular to the

3. Areas where the pedestrian circulation path crosses a curb ramp are considered flare sides. The maximum slope of the flare sides is 10%. Full curb height may not be able to be reestablished on flare slopes but as much curb height as possible should be reestablished.

4. Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares. Orient domes in the direction of pedestrian travel unless otherwise stated in plans.

The concrete in the turning space, curb ramp, and flare slope areas shall be a minimum thickness of 6 inches.

6. If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and turning space due to limited ramp length, provide a parallel ramp to make up the elevation difference between the turning space and the standard sidewalk. This parallel ramp shall not exceed 8.3% slope. However, the length of the ramp is not required to exceed 15 feet, regardless of slope. The minimum sidewalk thickness for the parallel ramp in this area is 4

7. Install a 2 foot taper when additional sidewalk will not be located adjacent to the curb ramp.

8. Depending on the conditions, a curb up to 6 inches high may need to be installed on the back of the turning space or adjoining sidewalk.

The slope of curb ramp and adjacent curb is designed at 7.5% or less but shall not be steeper than 8.3% unless otherwise specified in the plans. The curb ramp is not required to exceed 15 feet, regardless of slope. The cross slope target is 1.5% with a maximum cross slope of

The turning space, curb ramp, and detectable warning panel area will be paid for at the contact unit price for the corresponding concrete sidewalk bid

The detectable warning panel shall be measured and paid for to the nearest square foot. Payment shall include all costs for materials, labor, and equipment necessary for the installation of the detectable warning panels.

Revised: December 2016

CITY OF SIOUX FALLS **ENGINEERING DIVISION**

ACCESSIBLE CURB RAMPS

SPECIFICATION REFERENCE NO. 650

PLATE NUMBER 651.02



LONGITUDIN	AL CONSTRUCTION JOINT WITH TIE BARS
Concret Concrete C	Gutter or PCC Pavement
Sawed Joint filled with Hot— Poured Elastic Joint Sealer	
	3/8" T = Pavement Thickness
In Place Gutter Curb and Gutte	or Metal Recess Strip 15" 15" New PCC Pavement New PCC Pavement New PCC Pavement
GENERAL NOTES:	No.5 Epoxy Coated Deformed Tie Bar
shown above is a female ke	a minimum of 15 inches from existing transverse contraction
joints.	
keyway is provided, a metal formed, a metal recess strip	is not required.
The transverse contraction shall be placed at each main contraction joints in the or deep if formed in fresh con the transverse contraction thickness of the concrete	joints in the concrete gutter or concrete curb and gutter line PCC pavement transverse contraction joint. The transverse parete gutter or the concrete curb and gutter shall be $1/2$ " corete using a sultable grooving tool. If a saw is used to cut joints, then the depth of the joint shall be at least $1/4$ the gutter or concrete curb and gutter.
The term "In Place Gutter of place concrete gutter and	or Curb and Gutter" in the above drawing indicates that the in concrete curb and gutter was placed on the current project.
	POURED MONOLITHICALLY
Concrete Concrete Cu	Gutter or rb and Gutter PCC Pavement
• •	T = Pavement Thickness
	New PCC Pavement
GENERAL NOTES:	
The mainline curb and gutte this method of construction and gutter and the PCC pay	r may be placed monolithically with the PCC pavement. If n is used, the tie bars and the sawed joint between the curb ement shall be eliminated.
The gutter or curb and gu- contraction joint. The tran- shall be sawed and sealed s pavement.	ter shall be sawed transversely at each mainline transverse sverse contraction joints in the gutter or curb and gutter ame as the transverse contraction joints in the PCC
The slope of the gutter sh and gafter to be construc- be constructed at the same	all be the slope designated for the type of gutter or curb ed. The bottom slope of the gutter or curb and gutter shall slope as the mainline concrete pavement. September 14, 2095
	S PCC PAVEMENT LONGITUDINAL CONSTRUCTION PLATE NUMBER JOINTS WITH CONCRETE GUTTER OR 380.11

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8	S.D.	2016-008	23	26
		DETAILS		









		X-SECTIONS		
8	S.D.	2016-008	24	26
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-50 -40 -30 -20 -10







TOTAL SHEETS 26









