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POWER POLE TELEPHONE BOX CURB INLET SANITARY SEWER MANHOLE STORM SEWER MANHOLE VALVE PROPOSED VALVE EXISTING FIRE HYDRANT PROPOSED FIRE HYDRANT PROPERTY LINE SANITARY SEWER STREET CENTERLINE CURB WATER - TV -BURIED CABLE TV BURIED GAS LINE BURIED ELECTRIC LINE BURIED TELEPHONE LINE EXISTING STORM SEWER WORK LIMITS - AS PER CROSS SECTIONS

REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8 S.D.	S.D.	2017-012	1	23
		COVER		

1	COVER SHEET
2	ESTIMATE OF QUANTITIES
3-4	GENERAL NOTES
5	TRAFFIC CONTROL
6	EROSION CONTROL
7-9	SWPPP
10-11	CEDAR STREET LAYOUT
12-13	DOUGLAS AVE. LAYOUT
14-15	CAPITAL STREET LAYOUT
16-23	DETAILS

ESTIMATE OF QUANTITIES

BID ITEM	
NUMBER	

ITEM

QUANTITY

UNIT

Removals and Grading LS Mobilization 1 LF 2 Saw Existing Concrete 1575 LF 3 Saw Existing Asphalt 204 SY 3001 4 **Removal of Concrete Pavement** 5 Removal of Asphalt Pavement 1195 SY 732 LF 6 Removal of Curb & Gutter 7 Unclassified Excavation (See Note on Sheet 3) 1 LS 50 CY 8 Undercutting 9 Water for Embankment or Granular Material 10 KGal **Erosion Control** EA 10 Inlet Sediment Control 14 **Traffic Control** Traffic Control 752 UNITS 11 12 Traffic Control Miscellaneous LS 1 Surfacing 13 8" P.C.C. Pavement 2148 SY Insert Steel Bars in P.C.C. Pavement 350 EA 14 SF 2381 15 8" Concrete Fillet Section 6" Approach P.C.C. Pavement SF 16 830 6" Concrete Sidewalk SF 17 7846 18 6" Colored Concrete Sidewalk 7092 SF SF 19 Detectable Warning Panel 336 20 Concrete Curb and Gutter (B68) 1200 LF 21 6" Aggregate Base Course (See Note on Sheet 5) 2746 SY STORM SEWER EA 22 Type B Inlet with R-3067 Inlet frame, grate & curb box 6 R-3067 Inlet frame, grate & curb box 23 3 EA 24 186 LF F&I 18" RCP CL 3 (round) 25 F&I 15" RCP CL3 (round) 8 LF 26 Storm Sewer Pipe bedding material 186 LF 27 Core existing Inlet 5 EA 28 2'X2' Area Drain (See Note on Sheet 12) EA 1 29 2'X2' Junction Box with MH rim & lid (See Note on Sheet 12) 1 ΕA 30 Install 3'x3' concrete lid on existing inlet 2 EA

LOCATION CAPITAL STREET MISCELLANEOUS

TOTAL

TABLE OF CONCRETE CURB & GUTTER REMOVAL

LOCATION

CEDAR STREET DOUGLAS AVENUE CAPITAL STREET MISC.

TOTAL

TABLE OF CONCRETE CURB & GUTTER B68

LOCATION

CEDAR STREET DOUGLAS AVENUE CAPITAL STREET MISC.

TOTAL

TABLE OF REMOVE ASPHALT PAVEMENT

LOCATION DOUGLAS AVE. CAPITAL STREET

TABLE OF 8" PCC PAVEMENT

TABLE OF CONCRETE FILLET SECTION

LOCATION CEDAR STREET

DOUGLAS AVE.

MISC.

CAPITAL STREET

LOCATION		QUANTITY (SY)
CEDAR STREET		399
DOUGLAS AVE.		926
CAPITAL STREET		723
MISC.		100
	TOTAL	2148 (SY)

TABLE OF 6" SIDEWALK PLACEMENT

LOCATION	QUANTITY (SF)
CEDAR STREET	1867
DOUGLAS AVE.	2989
CAPITAL STREET	2790
MISC.	200
TOTAL	7846 (SF)

TABLE OF 6" COLORED SIDEWALK PLACEMENT

LOCATION	QUANTITY (SF)
CEDAR STREET	1867
DOUGLAS AVE.	2815
CAPITAL STREET	2210
MISC.	200
TOTAL	7092 (SF)

LOCATION

CEDAR STREET DOUGLAS AVE. CAPITAL STREET MISC

TABLE OF STEEL BAR INSERTION

LOCATION CEDAR STREET DOUGLAS AVE. CAPITAL STREET MISC.

TOTAL 2381 (SF)

QUANTITY (SF)

652

966

663

100

PROJECT	SHEET NO.	TOTAL SHEETS
2017012	2	23
Quantities	6/7/2	017

TABLE OF 6" CONCRETE APPROACH / DRIVEWAY PAVEMENT

(6" CONC.) QUANTITY (SF) 630 200

830 (SF)

REMOVE
 QUANTITY (LF)
142'
344'
196'
50'
732' (LF)

INSTALL	
QUANTITY (LF)

231'
559'
360'
50'

1200' (LF)

	QUANTITY (SY)	
	605	
	590	
TOTAL	1195 (SY)	

TABLE OF REMOVE CONCRETE PAVEMENT

	QUANTITY (SY)
	874
	1194
	883
	50
TOTAL	3001 (SY)

	QUANTITY (EA)
	100
	110
	120
	20
TOTAL	350 (EA)

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.

The Contractor will need to get an approved Phasing & Traffic Control plan that maintains traffic on 2nd Street at all times. The contractor will not be allowed to remove concrete on all the intersections at one time. Once started, each intersection will need to be substantially complete before the contractor can move on to the next intersection. The contractor should get approval from the engineer prior to starting removals on each intersection.

The contractor is to coordinate their work, with the City of Yankton, for the installation of street lights and bases.

All trenches are to be backfilled, compacted and covered with service gravel on the same day the pipe is layed. 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.

REMOVAL OF EXISTING CONCRETE PAVEMENT

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

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

NOTES

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 salvage 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 6 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 8 inches of existing Concrete Pavement being removed separately.

Estimate of 345 cu yds. of removal. 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.

"8" NONREINFORCED CONCRETE PAVEMENT

The Coarse Aggregate shall be Crushed Ledge Rock.

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

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 Manual on Uniform Traffic Control Devices 2009 edition. 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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NOTES	6/7/2	017

The concrete mix shall be Class A40 concrete paying 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

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.

STEEL BAR INSTALLATION

The Contractor shall install Steel No. 5x24" epoxy coated deformed tie bars into drilled holes in the existing concrete pavement. An epoxy resin adhesive must be used to anchor steel bars in the drilled holes.

The steel bars shall be cut at the specified length by sawing and shall be free from burring or other deformations. Shearing will not be permitted.

Epoxy resin adhesive shall be of the type intended for horizontal applications, and shall conform to the requirements of ASTM C 881, Type 1, Grade 3 (equivalent to AASHTO M235, Type 1, Grade 3).

The diameter of the drilled holes in the existing concrete pavement for the steel bars shall not be less than 1/8 inch nor more than 3/8 inch greater than the overall diameter of the steel bar. Holes drilled into the existing concrete pavement shall be located at mid-depth of the slab and true and normal. The drilled holes shall be blown out with compressed air using a device that will reach to the back of the hole to ensure that all debris or loose material has been removed prior to epoxy injection.

Mix the epoxy resin as recommended by the manufacturer and apply by an injection method approved by the Engineer. If an epoxy pump is utilized, it shall be capable of metering the components at the manufacturers designated rate and be equipped with an automatic shut-off. The pump shall shut off when any of the components are not being metered at the designated rate. Fill the drilled holes 1/3 to 1/2 full of epoxy, or as recommended by the manufacturer, prior to insertion of the steel bar. Care shall be taken to prevent epoxy form running out of the horizontal holes prior to steel bar insertion. Rotate the steel bar during installation to eliminate voids and ensure complete bonding of the bar. Insertion of the bars by the dipping method will not be allowed.

Cost for the epoxy resin adhesive, steel bars, drilling of holes, applying the adhesives, installing the steel bars into the drilled holes and all other items incidental to the installation of the steel bars shall be included in the contract unit price per each for "Install Steel Bar in Concrete Pavement".

INCIDENTAL WORK

All salvageable materials shall be taken out intact and stockpiled within the right-of-way to the satisfaction of the Engineer. The Contractor shall perform salvage operations in a manner that will prevent damage to the salvageable materials.

Salvable materials will be picked up by the City.

NOTES

All concrete removed from the existing structures and other disposable material shall be disposed of in accordance with the Notes Regarding Waste Disposal Site

INLET SEDIMENT CONTROL

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

COLORED CONCRETE SIDEWALK IN BOULEVARDS

The colored concrete sidewalks shall be colored per manufacturer recommendations. The color shall be determined by the City of Yankton. The contractor shall submit a sample piece of colored concrete to the Field Engineer for approval before placing the colored sidewalk for the boulevard. All costs for coloring shall be incidental to the contract unit price per square foot for the corresponding colored concrete sidewalk bid item.

Two coats of a non-yellowing acrylic curing and sealing compound shall be applied to the surface of the colored concrete. The curing and sealing compound shall be the product listed below or an equal approved by the Engineer.

DECRA-SEAL W.R. Meadows, Inc 1-800-342-5976 www.wrmeadows.com

All cost for furnishing, handling, and applying the curing and sealing compound, including the materials, equipment, labor and incidentals necessary shall be incidental to the contract unit price per square foot for the corresponding colored concrete sidewalk bid item.

	PROJECT	SHEET NO.	TOTAL SHEETS
-	2017-012	4	23
	NOTES	6/7/2	017



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, SHOWN

ITEMIZED LIST FOR TRAFFIC CONTROL BID ITEM						
SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	SUB TOTAL	
R11-2	48" x 30"	ROAD CLOSED	2	27	54	
R11-4	60" x 30"	ROAD CLOSED LOCAL TRAFFIC ONLY	3	30	90	
R3-1	24" x 24"	NO RIGHT TURN (SYMBOL)	2	15	30	
R3-2	24" x 24"	NO LEFT TURN (SYMBOL)	2	15	30	
W20-1	48" x 48"	ROAD WORK AHEAD	2	34	68	
		TYPE III BARRICADES	96 L.F.	5 UNITS/L.F.	480	
				TOTAL	752	

USE TUBULAR MARKERS AS NEEDED TO DIRECT TRAFFIC THROUGH INTERSECTIONS UNDER CONSTRUCTION. (TRAFFIC CONTROL MISC. BID ITEM)

LIST OF OTHER TRAFFIC CONTROLS FOR ROAD CONSTRUCTION					
BID ITEM DESCRIPTION QUANTITY					
TRAFFIC CONTROL MISC.	TYPE I & II BARRICADES, CONES, VERTICAL PANELS, DRUMS, BARRICADE WARNING LIGHTS, DELINEATORS. WATCHMAN, TUBULAR MARKERS, AND INSTALLATION OF CITY SIGNS.	LUMP SUM			

PROJECT	SHEET NO.	TOTAL SHEETS
2017–012	6	23
EROSION CONTROL	6/7/2	017

SWPPP

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.)
- Site Map(s): See Title Sheet and Plans (4.2 1.f. (1)-(6)) \geq
- Major Soil Disturbing Activities (check all that apply)
- Clearing and grubbing
- Excavation/borrow
- Grading and shaping
- Filling .
- Cutting and filling
- Other (describe):
- Total Project Area 1.0 acres (4.2 1.b.) 7
- Total Area To Be Disturbed 0.5 acres (4.2 1.b.) \geq
- Existing Vegetative Cover (%) >
- Soil Properties: AASHTO Soil Classification \geq (4.2 1. d.)
- > Name of Receiving Water Body/Bodies Missouri River (4.2 1.e.)

ORDER OF CONSTRUCTION ACTIVITIES (4.2 1.c.) ٠.

- (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).
- \mathbf{b} Install stabilized construction entrance(s).
- Install perimeter protection where runoff sheets from the site.
- Install channel and ditch bottom protection. \geq
- Clearing and grubbing. \geq
- Remove and store topsoil. \geq
- Stabilize disturbed areas. 5
- \geq Install utilities, storm sewers, curb and gutter.
- \geq Install inlet and culvert protection after completing storm drainage and other utility installations.
- ۶ Complete final grading.
- 1 Complete final paving and sealing of concrete.
- Complete traffic control installation and protection devices. \geq
- Reseed areas disturbed by removal activities. \geq
- EROSION AND SEDIMENT CONTROLS (4.2 2.a.(1)(a)-(f)) (Check all that apply)
- > Stabilization Practices (See Detail Plan Sheets)
 - Comporary or Permanent Seeding
 - Sodding
 - 8 Planting
 - Mulching (Straw or Cellulose Fiber)
 - Erosion Control Blankets or Mats
 - Vegetation Buffer Strips 8
 - Roughened Surface (e.g. tracking)
 - Gabions-Gabion Mattress
 - ☐ Other

- > Structural Temporary Erosion and Sediment Controls
- Silt Fence
- Straw Bale Check
- Temporary Berm 8
- Temporary Slope Drain
- Straw Wattles or Rolls
- 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 I No I 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

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

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 8

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.

- \geq \geq
- activities.

✤ Materials Inventory (4.2. 2.c.(2))

- Detergents
- ۶ > Paints
- Metals \geq

Wood

Cure

Other

Texture

 \geq

 \geq

7

 \geq

۶

 \geqslant

	PROJECT	SHEET NO.	TOTAL SHEETS
	2017-012	7	23
	SWPPP	6/7/2	017

Maintenance and Inspection Practices(Continued)

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 silt fence.

Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction. Check dams will be inspected for stability. Sediment will be

removed when depth reaches 1/2 the height of the dam. All seeded areas will be checked for bare spots, washouts, and

vigorous growth free of significant weed infestations. Inspection and maintenance reports will be prepared on form DOT 298 for each site inspection, this form will also be used to

document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents. The SDDOT Project Engineer and contractor's site superintendent are responsible for inspections. Maintenance, repair activities are the responsibility of the contractor. The SDDOT Project Engineer will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

Non-Storm Water Discharges (3.0)

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

Discharges from water line flushing.

Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.

I Uncontaminated ground water associated with dewatering

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 Cleaning Solvents

Chemical Fertilizers

♦ (4.2 2.c.(2))

> Material Management Spill Prevention

- 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 0 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 SDDOT. 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.

SWPPP

- 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

Construction Changes (4.4)

 PROJECT	SHEET NO.	TOTAL SHEETS
2017-012	8	23
SWPPP	6/7/2	017

 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

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 .

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

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 SDDOT Project 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.

♦ CERTIFICATIONS

Certification of Compliance with Federal, State, and Local Regulations

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

> City of Yankton, South Dakota

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.)

SWPPP

♦ CONTACT INFORMATION

- Contractor Information:
 - Prime Contractor Name:
 - Contractor Contact Name:
 - Address:
 - Address:
 - City: State: Zip:
 - Office Phone: Field: Cell: Fax:
- > City Engineer
 - Name: Brad Moser
 - Business Address: 416 Walnut Street
 - 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.

PROJECT	SHEET NO.	TOTAL SHEETS
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CEDAR STREET CALMER LAYLOUT

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181/2	39 ¹ /4	40	40 ¹ /2				
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) CONCRI	ETE PIPE		PLATE NUMBER 450.01 Sheet of			

30" CONCRETE CURB AND GUTTER N.T.S

1/2" Preformed Expansion Joint Fillers shall be placed, Tranversely in the Curb & Gutter as follows:

- (1) At each junction of Radius return Curb & Gutter and the Curb & Gutter which is parallel to the project centerline.
- (2) At each junction with existing Concrete Curb or Concrete Curb & Gutter
- (3) At each junction with existing sidewalk, to the depth of the sidewalk.
- (4) At a maximum of 195 L.F. appart, measured along the face of the Curb & Gutter.

1/2" Preformed Expansion Joint Filler shall be placed, Longitudinally, along the backface of the Curb, to the depth of the sidewalk, where such backface of Curb is adjacent to an existing Concrete Sidewalk.

Weakened Plane Joints shall be constructed at Approx. 10' intervals. The joints shall be constructed to a minimum depth of one inch by scoring with a tool which coincide with pavement joints leave the corners rounded and insure a free movement of the Concrete at the joint.

TYPE	T1 INCHES	CU. YD PER LIN. FT.
B66	6"	0.055
B67	7"	0.063
B68	8"	0.071
B68.5	8.5"	0.074
B69	9"	0.078
B69.5	9.5"	0.082
B610	10"	0.086
B610.5	10.5"	0.090
B611	11"	0.094
B611.5	11.5"	0.098
B612	12.0"	0.102

2017-012 No. Sni 2 Details 6/7/2017		PROJEC	т	SHEET	TOTAL
JOINT WITH TIE BARS JITHICALLY) Interview Int		2017–0	12	18	23
JOINT WITH TIE BARS LITHICALLY) New PCC Pavement Line of fracture Coated Deformed Tie Bars t Thickness t Thickness shall be spaced 48 Inches center n of 15 Inches from the existing g shall be a minimum of 1/3 the sawing for widening the saw cut then of the net poured elastic joint		Details	S	6/7/2	.017
t Thickness shall be spaced 48 inches center n of 15 inches from the existing g shall be a minimum of 1/3 the sawing for widening the saw cut tion of the hot poured elastic joint September 14, 2001	JOINT WITH T ITHICALLY)	IE BARS	S	6/7/2	017
shall be spaced 48 inches center n of 15 inches from the existing g shall be a minimum of 1/3 the sawing for widening the saw cut tion of the hot poured elastic joint September 14, 2001	† Thickness				
g shall be a minimum of 1/3 the sawing for widening the saw cut tion of the hot poured elastic joint September 14, 2001	shall be spaced	d 48 inches center from the existing	-		
September 14, 2001	g shall be a min sawing for wid tion of the ho	imum of 1/3 the ening the saw cut t poured elastic j	- Joint		
C PAVEMENT LONGITUDINAL JOINTS WITH TIE BARS	C PAVEMENT LON JOINTS WITH TIL	IGITUDINAL E BARS	September 14, 2001 PLATE NUMBER 380.10 Sheet 2 of 2	-	

PROJECT	SHEET	TOTAL	
2017-012	21	23	
Details	6/7/2	6/7/2017	

- 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 signalized legs.
- 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 direction of travel.
- 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.
 - 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 inches.
- 7. Install a 2 foot taper when additional sidewalk will not be located adjacent to the curb ramp.
 - To accommodate the passing area requirement, sidewalks must be a minimum of 5 foot wide through the driveway approach. See plate 651.01 for additional information.
 - 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.
- 10. 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 2.0%.

GENERAL NOTES:

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
ENGIN	EERING DIVISION
ACCESSI	BLE CURB RAMPS
SPECIFICATION	PLATE
REFERENCE	NUMBER
NO. 650	651.02

