

| STATE OF | PROJECT | SHEET NO. | TOTAL SHEETS |
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| SOUTH DAKOTA | 085-471 | 1 | 18 |
| Plotting [| Date: 13-0CT-2009 | | |

INDEX OF SHEETS

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| 5 | General Layout W/Index Estimate With General Notes & Tables Typical Sections |
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| 6-10 11 | Traffic Control Plan Sheet |
| 12 | Curb & Gutter Sheet Standard Plates |
| 18 | Pipe Sheet |



ESTIMATE OF QUANTITIES

| Bid Item Number | ltem | Quantity | Unit |
|--------------------|-----------------------------------|----------|------|
| 009E0010 | Mobilization | Lump Sum | LS |
| 110E0300 | Remove Concrete Curb and Gutter | 6 | Ft |
| 110E0320 | Remove Concrete Gutter | 58 | Ft |
| 110E0500 | Remove Pipe Culvert | 2 | Ft |
| 110E7500 | Remove Pipe for Reset | 10 | Ft |
| 110E7510 | Remove Pipe End Section for Reset | 1 | Each |
| 120E0600 | Contractor Furnished Borrow | 352 | CuYd |
| 230E0100 | Remove and Replace Topsoil | Lump Sum | LS |
| 250E0010 | Incidental Work | Lump Sum | LS |
| 450E0122 | 18" RCP Class 2, Furnish | 4 | Ft |
| 450E0130 | 18" RCP, Install | 4 | Ft |
| 450E9000 | Reset Pipe | 10 | Ft |
| 450E9001 | Reset Pipe End Section | 1 | Each |
| 634E0100 | Traffic Control | 379 | Unit |
| 634E0120 | Traffic Control, Miscellaneous | Lump Sum | LS |
| 650E1060 | Type F66 Concrete Curb and Gutter | 433 | Ft |
| 670E1010 | 2' x 3' Type B Drop Inlet | 1 | Each |
| 670E1200 | Type B Frame and Grate Assembly | 1 | Each |
| 734E0010 | Erosion Control | Lump Sum | LS |

SPECIFICATIONS

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

SCOPE OF WORK

Work on this project consists of:

- 1. Removing concrete gutter.
- 2. Installing concrete curb & gutter, RC Pipe and drop inlet.
- 3. Adjust junction box.

UTILITIES

The Contractor shall be responsible for having the existing underground utilities located in the construction area. Underground utilities damaged by the Contractor due to negligence shall be repaired at the Contractor's expense.

HISTORICAL PRESERVATION OFFICE CLEARANCES

To obtain State Historical Preservation Office (SHPO) clearance, a cultural resources survey may need to be conducted by a gualified archaeologist. In lieu of a cultural resources survey, the Contractor could request a records search from Jim Donohue, State Archaeological Research Center (SARC). Provide SARC with the following: a topographical map or aerial view on 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 no artifacts have been found on the site. The Contractor shall arrange and pay for the cultural resource survey and/or records search.

If any earth disturbing activities occur within the current geographical or historic boundaries of any South Dakota reservation, the Contractor shall obtain Tribal Historical Preservation Office (THPO) clearance. If no THPO exists, the required SHPO clearance shall suffice, with documentation of Tribal contact efforts provided to SHPO.

To facilitate SHPO or THPO responses, the Contractor should submit a records search or cultural resources survey report to Tom Lehmkuhl, DOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3721). Allow 30 days from the date this information is submitted to the Environmental Engineer for SHPO/THPO approval. The Contractor is responsible for obtaining all required permits and clearances for staging areas, borrow sites, waste disposal sites, and all material processing sites. The Contractor shall provide the required permits and clearances to the Engineer at the preconstruction meeting.

WASTE DISPOSAL SITE

The Contractor will be required to furnish a site(s) for the disposal of construction/demolition debris generated by this project.

ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall 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 Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

1.

2.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

1.31.

contract items.

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Construction/demolition debris may not be disposed of within the State

Construction/demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction/demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".

Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

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

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) shall be incidental to the various

JUNCTION BOX

The Contractor shall adjust 18" junction box to the extent necessary on this project. Adjusting the junction box may consist of removing the junction box cover, adjust CMP up 1' and reset junction box cover. The elevation of the cover shall be set at the same elevation of the adjacent surrounding ground. Junction box cover and CMP that are damaged due to carelessness of the Contractor shall be replaced with new junction box cover and CMP that conform with the Standard Specifications at the Contractor's expense. The junction box shall be adjusted to the satisfaction of the Engineer. All costs associated with adjusting the junction box shall be incidental to the contract lump sum price for "Incidental Work".

TABLE FOR ADJUSTMENT OF JUNCTION BOX

| Station | Adjustment |
|---------|------------|
| 440+16 | Raise 1' |

SALVAGED RIP RAP

All salvaged rip rap noted on the plans shall be salvaged for use and hauled to the outlet pipe at Station 441+53 as directed by the Engineer.. All broken concrete and materials not salvaged shall be disposed of in accordance with the Standard Specifications. All costs for salvaging and transporting the items shall be incidental to the contract lump sum price for "Incidental Work". Before preparing his/her bid, the Contractor shall make a visual inspection of the project to verify the extent of the work and material involved.

CONTRACTOR FURNISHED BORROW

The Contractor shall provide a suitable site for Contractor furnished borrow material. The Contractor is responsible for obtaining all required permits and clearances for the borrow site. The borrow material shall be approved by the Engineer. The plans quantity for "Contractor Furnished Borrow" as shown in the Estimate of Quantities will be the basis of payment for this item.

Restoration of the Contractor furnished borrow site shall be the responsibility of the Contractor.

SAWING IN EXISTING SURFACING

Where new Concrete Curb & Gutter is placed adjacent to existing asphalt concrete or PCCP, the existing pavement shall be sawed full depth to a true line with a vertical face. No separate payment shall be made for sawing.

TABLE OF CONCRETE CURB AND GUTTER REMOVAL

| | | | | Quantity |
|---------|----|---------|--------|----------|
| Station | to | Station | L/R | (Ft) |
| 437+44 | | 437+50 | L _ | 6.0 |
| | | | Total: | 6.0 |

TABLE OF CONCRETE GUTTER REMOVAL

| Station | to | Station | L/R | Quantity (Ft) |
|---------|----|---------|--------|------------------|
| 437+50 | | 438+02 | L | 58 |
| | | | Total: | 58. |

CONCRETE PIPE CONNECTIONS

Pipe connections to existing pipes, manholes, junction boxes, and drop inlets shall be done by breaking a hole into the existing structure and inserting the pipe. A concrete collar shall then be poured around the pipe in the area of the connection.

When it is not possible to use a normal pipe joint (male-female ends), connections to existing pipe shall be made by placing a 2' wide by 6" thick M6 concrete collar around the outside of the connection. The concrete collar shall be reinforced with 6x6 W2.9 x W2.9 wire mesh.

All costs for constructing the concrete collars including materials and labor shall be incidental to the contract unit price per foot for the corresponding pipe bid item.

RESET PIPE SECTION

All costs for removal of the pipe section shall be incidental to the contract unit price foot for "Remove Pipe for Reset".

The reset pipe shall be placed as per the Engineer's directions. The reset pipe shall be bolted according to Plate Number 450.18. Drilling holes in existing pipe will be incidental to the contract unit price per foot for "Reset Pipe".

All costs for resetting the existing flared end shall be incidental to the contract unit price per each for "Reset Pipe End Section"

DROP INLETS

these items.

Assembly"

ONLY)

| | L | Drop | Drop | Class M6 | Reinf. | Frame and |
|-----------|---|-------|-------------|-------------|--------|--------------|
| | / | Inlet | Inlet | Concrete | Steel | Grate/Lid |
| Station | R | Size | Туре | (CuYd) | (Lb) | Туре |
| 441+53.76 | L | 2'x3' | В | 1.22 | 133.99 | В |
| | | | Totals : | 1.22 | 133.99 | |

Total Type B Frame and Grate Assembly

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The plan shown quantities of the drop inlet components such as Class M6 Concrete, Reinforcing Steel is for information only. The contract unit price per each for "2'x3' Type B Drop Inlet" and the contract unit price per each for "Type B Frame and Grate Assembly" will be the basis of payment for

If additions or reductions to the number of drop inlets are ordered by the Engineer, payment for the components required to construct the drop inlets will be made at the contract unit price per each for "2'x3' Type B Drop Inlet" and the contract unit price per each for "Type B Frame and Grate

1

TABLE OF DROP INLETS AND QUANTITIES (FOR INFORMATION

GUTTER SLOPE FOR F CONCRETE CURB AND GUTTER

The Contractor shall be aware of the new standard gutter slope required for this project. The new standard gutter slope shall be 5% as detailed on standard plate 650.20 (Type F Concrete Curb and Gutter).

TYPE F66 CONCRETE CURB AND GUTTER

The Concrete Curb & Gutter shall be constructed in accordance with Section 650 of the Standard Specifications. All cost including sawing and removing asphalt, excavation required to place curb and gutter, granular material, furnishing and placing concrete, curing, repairing asphalt shoulder, labor, tools and equipment shall be incidental to the contract unit price per foot for "Type F66 Concrete Curb & Gutter".

Any damage to existing asphalt shoulders, curb & gutter and asphalt surfacing shall be repaired by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

TABLE OF TYPE F66 CONCRETE CURB AND GUTTER

| | | | Quantity |
|------------|-----------|---------|----------|
| Station to | Station | L/R | (Ft) |
| 437+43.96 | 440+16.53 | L | 272.6 |
| 440+16.53 | 441+61.29 | L | 160.8 |
| | | Totals: | 433.4 |

REMOVE AND REPLACE TOPSOIL

Topsoil shall be salvaged and stockpiled prior to constructing the embankment area(s). Limits of this work, depth of salvage, and stockpile location will be directed by the Engineer. Following completion of construction, topsoil shall be spread evenly over the disturbed areas.

The estimated amount of topsoil to be removed and replaced is 130 CuYd.

All cost associated with removing and replacing the topsoil shall be incidental to the lump sum price for "Remove and Replace Topsoil".

EROSION CONTROL

The contract lump sum price for Erosion Control shall include all material, equipment, and labor necessary to seed and mulch all areas disturbed by construction of this project. The Engineer, at the time of construction, shall determine limits of the Erosion Control work. The estimated area to be seeded is approximately 0.24 acres.

RESTORATION SEEDING FOR DISTURBED AREAS

All costs associated with restoration seeding for disturbed areas shall be incidental to the contract lump sum price for "Erosion Control".

All restoration seeding shall be planted in the topsoil at a depth of $\frac{1}{4}$ " to $\frac{1}{2}$ ".

All seed broadcast must be raked or dragged in (incorporated) within the top $\frac{1}{2}$ " to $\frac{1}{2}$ " of topsoil when possible. This requirement may be waived by the Engineer during construction when raking or dragging is deemed not feasible by conventional methods.

South Dakota native grown seed is an acceptable alternative to any of the seed varieties listed below. South Dakota native grown seeds used as an alternative shall conform to the same specification and requirements for that individual seed type.

Type C Permanent Seed Mixture shall consist of the following:

| Grass Species | Variety | Pure Live Seed (PLS) (Pounds/Acre) |
|--------------------|--------------------------|--|
| Western Wheatgrass | Flintlock, Rodan, Rosana | 16 |
| Canada Wildrye | Mandan | 2 |
| | Total: | 18 |

MULCHING (GRASS HAY OR STRAW)

All seeded areas are to be mulched. Hand mulching may be allowed for small areas if approved by the Engineer. All costs associated with mulching shall be incidental to the contract lump sum price for "Erosion Control".

Bales with noxious weed contamination will be rejected and the Contractor will be required to remove the contaminated bales from the project.

FERTILIZING

Application of fertilizer will not be required on this project.

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TYPICAL SECTION



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GENERAL MAINTENANCE OF TRAFFIC

Removing, relocating, covering, salvaging and resetting of permanent traffic control devices, including delineation, shall be the responsibility of the Contractor. Cost for this work shall be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

Storage of vehicles and equipment shall be outside the clear zone (30' from the traveled way) and as near as possible to the right-of-way line. 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 State, and to the satisfaction of the Engineer.

All vehicles entering and exiting closed lanes of traffic shall display a flashing amber light visible from all directions at a minimum distance of $\frac{1}{4}$ mile.

No work during hours of darkness.

The Contractor shall provide documentation that all breakaway sign supports comply with FHWA NCHRP 350 crash-worthy requirements. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

Signs may be mounted on portable supports meeting minimum heights in MUTCD.

If the Contractor elects not to work in an area for more than 3 days, for reasons within the control of the Contractor, the Contractor shall remove applicable traffic control devices and replace them when work resumes. There will be no payment for this work.

| SIGN CODE | SIGN SIZE | DESCRIPTION | NUMBER REQUIRED | UNITS PER SIGN | UNITS |
|-----------|-----------|---|--------------------|-------------------|-------|
| G20-2 | 36" x 18" | END ROAD WORK | 4 | 17 | 68 |
| R11-2 | 48" x 30" | ROAD CLOSED | 1 | 27 | 27 |
| W20-1 | 48" x 48" | ROAD WORK #### FT. OR AHEAD | 4 | 34 | 136 |
| W21-5 | 48" x 48" | SHOULDER WORK | 2 | 34 | 68 |
| **** | ***** | TYPE III BARRICADE - 8 FT. SINGLE SIDED | 2 | 40 | 80 |
| | | | TOT | AL UNITS | 379 |

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| Posted Speed A | Spacing dvance W | | Taper | Spacing of Channelizin | | |
| Prior to | Signa | 5 | Length | Devices | Ĩ | |
| Work (M.P.H.) | (Feet (A) | -) | (Feet) (L) | (Feet) (G) | | |
| 0 - 30 | 200 | | 180 | 25 | | |
| <u>35 - 40</u> 45 - 50 | 350 | | 320 | 25 | | |
| 55 | <u> </u> | | 600 660 | <u> </u> | | |
| 60 - 65 | 1000 | | 780 | 50 | | |
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| d cont | raction | | the curt | ht, the method D.11. 20 and gutter. 30 September 6, 200 PLATE NUMBER 650.20 30 Sheet 1 of 1 | 08 | |













| 441+94 - 117', i Install 27', iyoe B Drop Inlet and Type B Frame & Grate Top Wall E1 3126.13 Top Wall E1 3125:16 Floor E1 3120.33 Install 18" - 4' RCP Reset 15"-10" RCP & Reset 15"-10" RCP & Reset 15 light E1 3126.13 (Incidental Work) Inlet & Outlet) | | -160 | . ـ ـ ـ | | · | ' | ۱ | о́ |
|--|---|--|---|---------------|-------|-------|---|----|
| Install 2' Xi3' Type B Drop Inlet and Type B Frame & Crote Top Curb El 3126.13 Top Wall El 3126.13 Install 18" - 4' RCP Reset 18"-10' RCP Reset 18"-0' RCP (Incidenta Work) Install Flore End (Between Drop Inlet & Outlet) | | | | | | | | |
| Place Salvaged Rip Rap (Incidenta) Work) | | | | | | | | |
| Place Salvåged Rip Rap (Incidenta Work) | | | | = = = = = | | | | |
| Install 2' X:3' Type B Drop Inlet and Type B Frame & Grate Top Curb El 3126.13 Top Wall El 3125.16 Floor El 3120.33 Install 18" - 4' RCP Reset 18"10"- RCP | Place Salvaged Rip Rap (B (Incidenta Work) | Reset 1 Flared End Between Drop Inlet & Outle | +) | | | | | |
| Install 2' X 3' Type B Drop Inlet and Type B Frame & Grate Top Curb El 3126.13 Top Wall El 3125.16 | In Re | Floor El 312 nstall 18" - 4' RCP asot-18" | 0.33 | | | | | |
| | | Install 2') and Type B F Top Curb El Top Wall El | 3' Type B Drd rame & Grate 3126.13 3125.16 | p Inlet | | | | |

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