

	STATE OF SOUTH DAKOTA		SHEET NO.	TOTAL SHEETS
		000I-452	1	4
	Plotting [)ate: 18-MAY-2009		
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N

ESTIMATE OF QUANTITIES

BID ITEM	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
634E0100	Traffic Control	34	Unit
635E6200	Miscellaneous, Electrical	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

Replace broken cable clamps.

Replace power conductor to light ring on High Mast Light Tower.

Install luminaire shields.

The Contractor is strongly encouraged to inspect the site and verify required quantities and tower and luminaire manufacturers prior to bidding.

GENERAL MAINTENANCE OF TRAFFIC

Storage of vehicles and equipment shall be outside the clear zone 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.

The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas. Portable sign supports may be used as long as the duration is less than 3 days. If the duration is more than 3 days the signs shall be on fixed supports.

INVENTORY OF TRAFFIC CONTROL DEVICES

SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER REQUIRED	UNITS PER SIGN	UNITS
W20-1	48" x 48"	ROAD WORK #### FT. OR AHEAD	1	34	34
TOTAL UNITS 3				34	

INCIDENTAL WORK

Incidental work includes, but is not limited to the following:

1) The restoration of all disturbed areas to the satisfaction of the Engineer.

MISCELLANEOUS ELECTRICAL

Included in the contract item for Miscellaneous, Electrical are the specified power conductor and all brackets, cable clamps, hardware, labor, and materials required to complete the installation of the power conductor on the designated High Mast Light Tower.

Included in the contract item for Miscellaneous, Electrical are all brackets, hardware, light shields, labor, and materials required to complete the installation of the light shields on the designated luminaires.

POWER CONDUCTOR AND BRACKETS

A new 127-foot long, four conductor, #8 AWG, 600 volt, 0.807-inch diameter power cable shall be installed in tower number T3 to replace the original. The original cable is no longer in the tower and will not require removal.

Plug ends shall match existing receptacles on the tower. Existing ends are Power lock connector 60 amp 600Volt 3pole 4wire Cooper #26414, and plug end #26415

Two new cable clamps will be required to replace damaged units.

The pole manufacturer is Valmont.

Valmont Structures P.O.Box 358 7002 N. 288th St. Valley, Nebraska 68064-0358

(402)359-2201

The high mast lowering device manufacturer is Carolina High Mast.

CHM Industries, Inc. 700 E. McLeroy Blvd Saginaw, TX 76179

(682) 286-0046

The Contractor may contact Jerry Nuber (605-394-4118, Ext 702) at the City of Rapid City with more specific questions regarding the power conductor installation.

LUMINAIRE SHIELDS

For tower T7, two luminaire shields will be required to fit Holophane Test No. 36794 Long and Narrow luminaires.

Holophane P.O. Box 3004 Newark, OH 43058-3004

(740) 345-9631

Luminaire shields for tower T7 will require the illumination to be cut off at an angle of 12.6 degrees off of vertical and 180 degrees horizontally on the southeast side for both units.

For tower T5, three luminaire shields will be required to fit Holophane Test No. 36794 Long and Narrow luminaires.

Luminaire shields for tower T5 will require the illumination to be cut off at an angle of 28.5 degrees off of vertical and 180 degrees horizontally on the south side for all three units.

SHOP DRAWING AND/OR AS-BUILT DRAWINGS SUBMITTALS

The Contractor shall submit shop drawings and/or as-built drawings for new luminaire shields and brackets in accordance with Section 985 of the Standard Specifications or in Adobe PDF format.

Adobe PDF submittals shall be sent to the following email addresses:

MISCELLANEOUS ELECTRICAL

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Included in the contract item for Miscellaneous, Electrical are all brackets, hardware, light shields, labor, and materials required to complete the installation of the light shields on the designated luminaires.

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SOUTH DAKOTA	0001-452	2	4

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