

UT SCALE - 7666

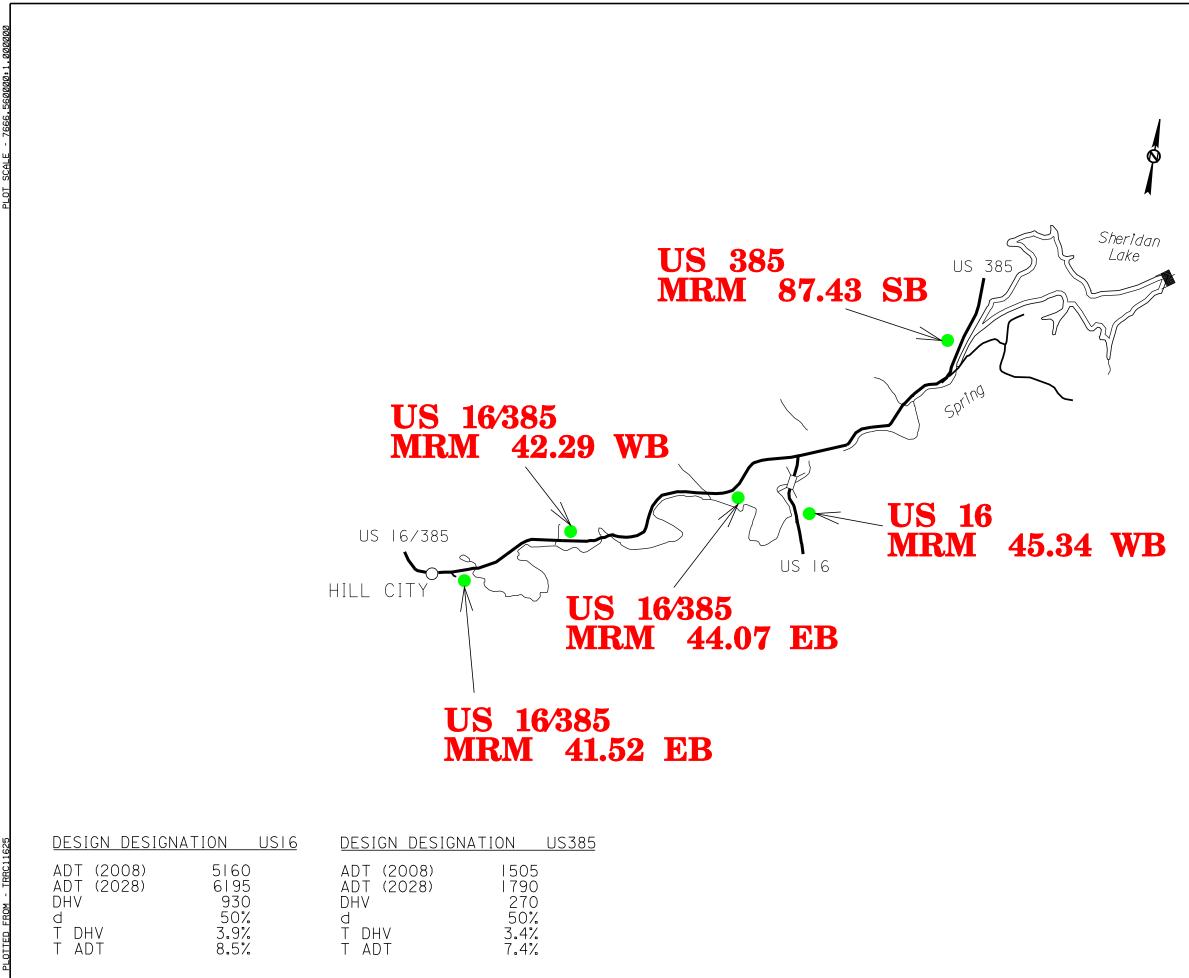
ST	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS 4
		000P-452 000P-491	<u>но.</u> 1	

Plotting Date: 04-MAR-2010

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ILE - U1/REGIONRC/PRJ/2010/RCREGMAINT/PLANS/IIDA-IIOB_BIGHORNSHEEP/IIOA-IIOBDTIRABED6N



STATE OF	PROJECT 000P-452	SHEET NO.	TOTAL SHEETS	
SOUTH DAKOTA	000P-452 000P-491	2	4	
Plotting Date: 04-MAR-2010				

ESTIMATE OF QUANTITIES

Bid Item Number	ltem	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
632E3400	Solar Powered Flasher	7	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS

WORK DESCRIPTION

Work on this project consists of the Contractor furnishing and installing 7 Solar Powered Flashers on 7 DOT furnished and installed signs.

SOLAR POWERED FLASHER

The contractor shall provide all labor and equipment necessary to install the Solar Powered Flashers to existing signs. Payment for furnishing and installing the Solar Powered Flashers will be paid for at the contract unit price for each and all other costs shall be incidental.

The solar powered flasher shall be a JSF Technologies' Solar Powered 24-Hour Flashing Beacon or equivalent.

The system shall be self-contained with all components mounted within the signal head or solar panel housing. No additional cabinet is required. The flashing beacon shall be LED and 12" yellow with a tunnel visor and include mounting hardware to mount to a 2" or 2.5" square tubular post.

The Solar Powered Flasher shall be mounted to the top of each sign shown in the details in these plans. Two 3/8" diameter straight bolts (Grade 8) shall be used to attach each flasher to the existing sign post.

The single section shall be constructed of polycarbonate material and must be adjustable independently from the bracket for lens alignment.

The system shall include a Flash Pattern Selector with the ability to operate at least (2) flash patterns:

- 1. High Visibility Strobe one second cycle of four 1/16th second flashes, followed by a ½ second pause.
- 2. MUTCD a $\frac{1}{2}$ second on, $\frac{1}{2}$ second off cycle.

The solar panel housing section shall house Hawker 25 Ah, 2V, BC Cell, sealed lead acid or equivalent batteries. The batteries shall be field replaceable, and have a 3-5 year service life.

MISCELLANEOUS ELECTRICAL

The Contractor shall provide all labor and equipment necessary to install a single pole switch, wire, conduit, and weather proof switch box for each Solar Powered Flasher.

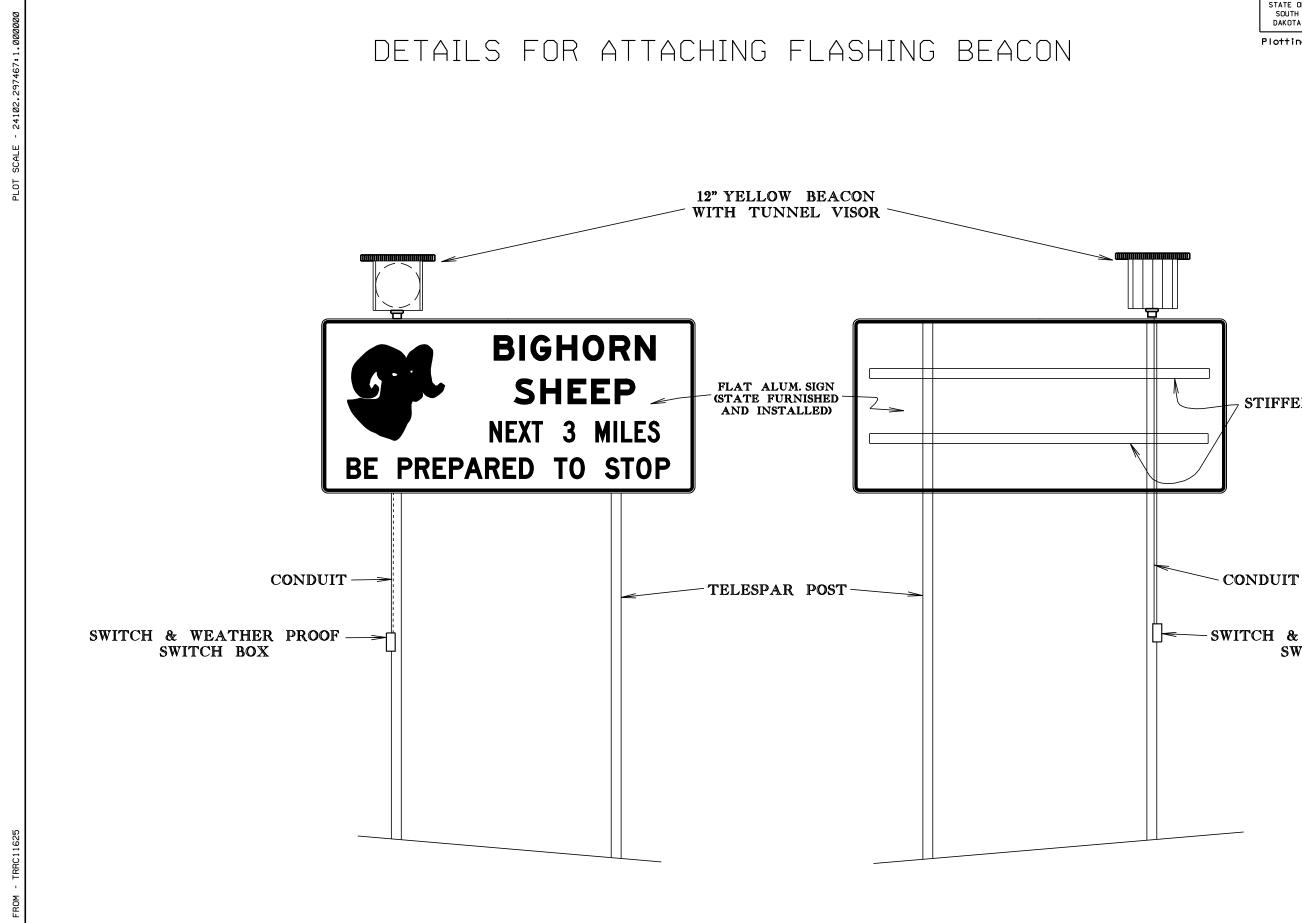
All costs for labor and material for furnishing and installing the switches, wire, conduit, and switch boxes will be paid for at the contract lump sum Miscellaneous Electrical.

The switch shall be mounted to the sign post at a height accessible from ground level and have the capability to be locked in the ON or OFF positions.

MISCELLANEOUS ELECTRICAL (CONTINUED)

The Contractor shall be responsible for the restoration of any disturbed areas to the satisfaction of the Engineer.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	000P-452 000P-491	3	4



	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS	
		000P-452 000P-491	4	4	
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7 STIFFENERS

- SWITCH & WEATHER PROOF SWITCH BOX