

## Department of Transportation

### Pierre Region Office

104 S. Garfield – Bldg. A

Pierre, South Dakota 57501-5405 605/773-3464

FAX: 605/773-6215

July 9, 2014

RE: 0009-391

Remove/Replace Overhead Doors and Openers In Murdo Maintenance Shop  
Jones County

TO: INTERESTED BIDDERS

The South Dakota Department of Transportation (SDDOT), Pierre Region Office – Bldg. A, 104 S. Garfield, Pierre, South Dakota 57501, desires to solicit bids for the above referenced project.

Sealed bids for the contract will be accepted until 2:00 P.M. (C.D.T.) on Thursday, July 24, 2014, and will be opened at that time in the Pierre Region Office – Bldg. A. Bids must be received in an envelope with “**Overhead Doors on Murdo Maintenance Shop**” written on the outside.

A Certificate of Insurance will be required from the successful bidder prior to beginning work on this project.

**THE CONTRACTORS SIGNATURE ON THE DOT-123 FORMS MUST BE NOTARIZED TO CONSITUTE A LEGAL BID.**

The Department of Transportation reserves the right to reject any and all bids. No faxed bids will be accepted.

DEPARTMENT OF TRANSPORTATION

John C. Forman, P.E.  
Pierre Region Engineer

cc: B. Moore - Operations  
J. Hyde – Pierre Region  
D. Sherman – Winner Area  
Project File

**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION**  
**CONTRACT PROPOSAL**

DOT-123  
(5/05)  
1 of 1

CODE	PROJECT			MAINT UNIT	CONTROL REFERENCE	AFE	FUNCTION	BEGIN MRM	END MRM
	PRE	ROUTE	AGR						
P	0	0	09	391	3045		2722		

CITY AND/OR COUNTY: Jones

BUDGET SOURCE: Building M& I Budget (Center 11-13-27)

FINALS ENGINEER REVIEW REQUIRED: ☐ YES ☒ NO  
 REGION MATERIALS CERTIFICATION REQUIRED: ☐ YES ☒ NO  
 CERTIFIED INSPECTORS/TESTERS REQUIRED: ☐ YES ☒ NO  
 TO BE INSTALLED ON CM&P: ☐ YES ☒ NO

TYPE, PURPOSE AND LOCATION OF WORK: Remove and Install 10 new insulated overhead doors and openers.

Murdo Maintenance Shop, 24305 US Hwy 83, Murdo SD

**ESTIMATE OF QUANTITIES AND COST**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Remove/Replace Overhead Doors, Openers and Miscellaneous Items In Murdo Maintenance Shop	Lump Sum	LS	Lump Sum	
<b>TOTAL</b>					

**CONTRACTOR'S PROPOSAL STATEMENT**

The undersigned does hereby agree to furnish the labor and/or material in the quantities, at the unit price, for the purpose, in the place and in accordance with attached provisions upon approval of this Proposal by the State Transportation Commission. This document becomes the Contract when signed by the Contractor and a Department of Transportation Representative. The Contractor agrees to provide services in compliance with the Americans with Disabilities Act of 1990. The Contractor agrees to provide a certificate of insurance prior to commencing work, for liability coverage for the duration of the work as per the current edition of the SDDOT Standard Specifications for Roads and Bridges.

PROPOSED START DATE July 28, 2014

OVERALL COMPLETION DATE October 30, 2014

SUBSCRIBED AND SWORN TO BEFORE ME THE  
\_\_\_\_\_  
DAY OF \_\_\_\_\_, 20\_\_

SIGNATURE \_\_\_\_\_  
COMPANY \_\_\_\_\_  
ADDRESS \_\_\_\_\_

NOTARY - My Commission Expires \_\_\_\_\_

FEDERAL TAX ID NUMBER \_\_\_\_\_

RECOMMENDED FOR APPROVAL:

\_\_\_\_\_  
CONSTRUCTION & MAINTENANCE ENGINEER DATE

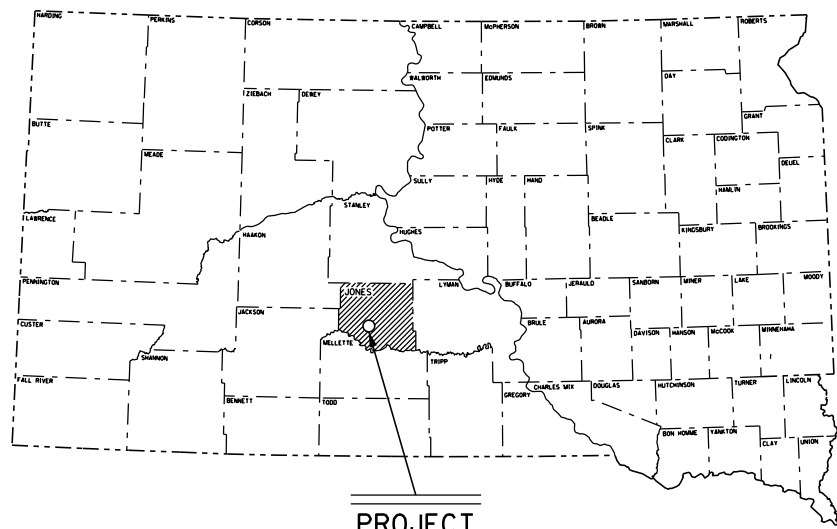
\_\_\_\_\_  
REGION ENGINEER DATE DIRECTOR OF OPERATIONS DATE

APPROVED FOR THE TRANSPORTATION COMMISSION

NAME \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

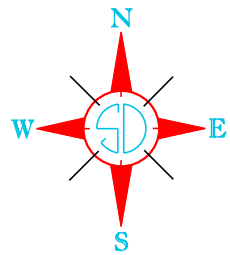
APPROVED as per Federal Highway Stewardship Provisions this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
PROJECT DEVELOPMENT ENGINEER



STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED  
**PROJECT 0009-391**  
**SDDOT MURDO MAINTENANCE SHOP**  
**JONES COUNTY**

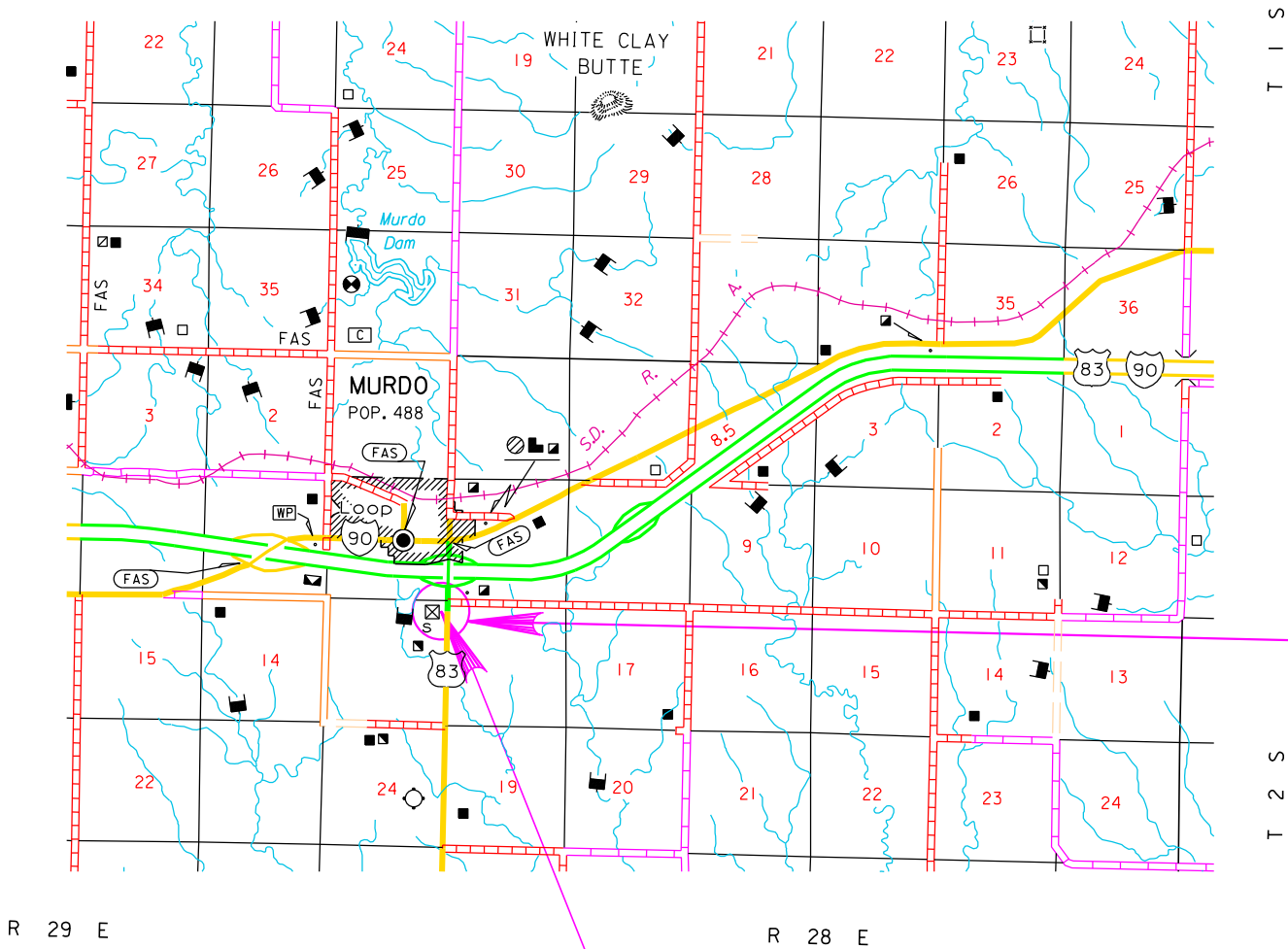
REMOVE/REPLACE OVERHEAD DOORS AND OPENERS  
JULY 2014



STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	0009-391	1	10

**INDEX OF SHEETS -**

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**PROJECT WORK SITE**

**PROJECT 0009-391**

# OVERHEAD DOOR NOTES

Murdo Maintenance Shop  
24305 US Hwy 83, Murdo SD

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	0009-391	2	10

PART 1 – GENERAL: Install 10 insulated overhead doors and openers in the Murdo Maintenance shop.

1.1 DESCRIPTION

- A. Work included: Provide overhead doors, as specified herein, and as needed for a complete and proper installation.
  - 1. The Maintenance shop doors measure 13’ 8” wide by 14’ high, there are 6 panels in each door.
  - 2. The opening for the Maintenance shop doors is 13’ 7” wide by 13’ 11” high.
  - 3. It will be the contractor’s responsibility to verify and get the proper size door.
  - 4. Contractor shall supply 2 sets of Operation and Maintenance manuals.
  - 5. **The Maintenance Shop is available Monday thru Thursday between the hours of 7 am – 5:30 pm Central Standard Time.**

1.2 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work.

1.3 SUBMITTALS

- A. Product data: After the Contractor has received Notice to Proceed, submit:
  - 1. Material list of items proposed to be provided under this section.
  - 2. Manufacturer’s specifications and other data needed to prove compliance with the specified requirements.
  - 3. Manufacturers recommended installation procedures which will become the basis for accepting or rejecting actual installation procedures used on the work.

1.4 WASTE DISPOSAL SITE

- A. All removed materials shall become the property of the Contractor.
- B. The Contractor will be responsible for the disposal of all construction/demolition debris generated by this project.

1.5 METHOD OF MEASUREMENT AND PAYMENT

- A. All work described to satisfactorily remove the existing doors, tracks, openers and appurtenances as described, as well as work to satisfactorily furnish and install the new doors, tracks, and openers as a fully operational system will be paid for at the contract lump sum price for “Remove/Replace Overhead Doors, Openers and Miscellaneous Items in the Murdo Maintenance Shop”. Payment will be full compensation for all labor, equipment, and incidentals to complete the work.

PART 2 – INSULATED DOOR PRODUCTS

2.1 OVERHEAD INSULATED DOOR CONSTRUCTION

- A. Steel insulated sectional shop doors:
  - 1. Door sections shall be **(24”)** high and not less than **(1 and 3/4”)** inches thick and shall be constructed from not less than 26 gauge (0.016”) galvanized steel panels. Galvanized steel skins shall be formed from commercial quality hot dipped galvanized steel per ASTM A 653 / 924. Minimum yield strength of skins shall be 33,000 psi. Provide continuous shiplap, rabbeted or keyed weather seal between all sections. Provide four lite cut-outs in each door. Locate lite in third door section up from door sill. Lites to be glazed with clear insulated glass.
  - 2. Stiles shall be provided at ends of all door sections. End stiles shall be formed from hot-dipped galvanized steel.
  - 3. Provide aluminum or galvanized steel weather strip retainer channel or angle along lower edge of bottom door section.
  - 4. Doors shall be insulated type. Insulation shall consist of Polystyrene or Polyurethane providing a minimum section "R" value of 16.0. Interior of door shall be covered with minimum 28 gauge (0.013”) steel finished to match outside of door.
  - 5. Door Finish:
    - 1. Doors shall have ribbed or grooved and textured surface, Baked- Enamel or Powder Coated Finish.
    - 2. Factory Prime Finish: Manufacturer's standard color.
    - 3. Finish of interior to match the outside facing material.
    - 4. Exterior galvanized steel surfaces of door sections shall receive a baked-on acrylic enamel or polyester enamel finish. Exterior door color shall be white.
    - 5. Provide stiffeners in the bottom two sections of door.
- B. Track:
  - 1. Provide manufacturer's 3" galvanized steel track system. Contractor shall verify headroom to determine if standard headroom track can be utilized or if low headroom track will be required. Provide complete track assembly including brackets, bracing and reinforcing for rigid support of ball bearing roller guides, for required door type and size. Slope tracks at proper angle from vertical or otherwise design to ensure tight closure at jambs when door unit is closed.
  - 2. Provide galvanized steel track reinforcement and support members. Secure, reinforce and support tracks as required for size and weight of door to provide strength and rigidity, and to ensure against sag, sway and detrimental vibration during operation of door.



OVERHEAD DOOR NOTES

Murdo Maintenance Shop  
24305 US Hwy 83, Murdo SD

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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3.

Support and attach tracks to opening jambs with continuous angle attached to tracks and fastened to wall. Support horizontal tracks with continuous angle and laterally braced attachments to overhead structural members.
- C.

Weather stripping:
1.

Provide door manufacturers standard weather strip system for head and jamb areas. Weather strips to be of neoprene rubber or flexible PVC construction. Weather strip shall stay flexible and retain its shape in sub-zero weather.
2.

Weather strip at sill area of door shall be door manufacturer's standard extruded vinyl or foam rubber weather strip.
3.

Provide weather strip between panel sections.
- D.

Hardware:
1.

Provide heavy-duty, rust-resistant hardware, with galvanized, cadmium plated or stainless steel fasteners to suit type of door.
2.

Provide four lite cutouts in each door (24" X 12"). Lites to be located in third section of the door from bottom. Glaze doors with clear tempered with minimum of 3/4" thick insulating glass.
3.

Hinges: Provide heavy metal steel hinges at each end stile and at each intermediate stile per manufacturer's recommendations for size of door. Attach hinges to door section through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners only where access to nuts is not possible. Provide double-end hinges, where required, by door manufacturer.
4.

Rollers: Provide heavy-duty rollers, with steel ball bearings in case- hardened steel races, mounted with varying projections to suit slope of track. Extend roller shaft through both hinges where double hinges are required. Provide case-hardened steel roller tires to suit track size.
- E.

Counterbalancing Mechanism:
1.

Hang door assembly for operation by Torsion spring counter-balance mechanism consisting of adjustable tension tempered steel torsion springs mounted on a case-hardened steel shaft, and connected to door with galvanized aircraft type lift cable.
2.

Provide cast aluminum or gray iron casting cable drums, grooved to receive cable. Mount counterbalance mechanism with manufacturer's standard ball bearing brackets at each end of shaft with one additional mid-point bracket if required by manufacturer.
- F.

Door Operators:
1.

Provide and install heavy duty or commercial electric door operators for all overhead doors. Operators shall be for the size and weight recommended by the door manufacturer for the door [and meet the operation cycles requirement], Control circuit shall be 24 volt Class 2, 3 button open-close-stop station. Clutch shall be an adjustable disc friction type. Brake shall be solenoid actuated drum or disc type. Mounting to be trolley or jack shaft (side or center

- mount).

Mount door controls to wall near door jambs.
2.

Door shall be equipped with an obstruction detection device. Photoelectric sensor provided by the Manufacturers standard design to detect an obstruction in the door opening without contact between the door and obstruction.
3.

Provide overhead doors with a hand-operated disconnect mechanism that will allow doors to be operated in the event of a power failure.
4.

Provide one remote opener with each door for a total of ten remotes.
5.

The existing operators are hard wired in flexible conduit to a junction box. It will be the Contractors responsibility to have the new operators wired to the existing junction box.

2.2 MANUFACTURERS:

- A.

Manufacturers providing products which are considered are as follows, If you have a Door manufacturer not on this list you can supply us which the door spec's and we will check to see if they meet the requirements.

Overhead Door Corporation.  
Raynor Manufacturing.  
Midland Manufacturing.  
North Central Door Co.  
Windsor Door Division.  
Wayne Dalton Corporation.  
Clopay Door Corporation.

2.3 PERFORMANCE

- A.

Overhead doors specified under this section of the technical specifications shall meet or exceed the following performance requirements:
1.

Wind Loads: [Uniform pressure (velocity pressure) of 20 #/sq. ft. acting [inward and outward].
2.

Air Infiltration: Maximum rate of [0.08 CFM/sq. Ft. at 15 and 25 mph].
3.

[Installed]R-Value: [16.0 deg. F x h x sq. ft./Btu (2.642 K x sq. m/W)].
4.

Steel Sections: Zinc-coated (galvanized) steel sheet, formed into sections [Not less than 1 3/4" inches] Thick.
5.

Operation Cycles: Springs not less than [20,000 cycles].
6.

Warranty: Shall be for 1 year to include all components and workmanship, the panels shall be warrantied against delamination for a period of 10 years.

# OVERHEAD DOOR NOTES

Murdo Maintenance Shop  
24305 US Hwy 83, Murdo SD

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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## 2.4 INSTALLATION

- A. Install the work of this section to the manufacturer's recommended installation procedures, anchoring all components firmly into position for long life under hard use.
- B. Upon completion of the installation, put all items through at least ten operating cycles. Make required adjustments and assure that components are in optimum operating conditions. Any adjustments required in the first year will be done at no charge.

INFORMATIONAL PICTURES





INFORMATIONAL PICTURES

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INFORMATIONAL PICTURES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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INFORMATIONAL PICTURES

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INFORMATIONAL PICTURES

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INFORMATIONAL PICTURES

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