MAPS

Map 1: Project Location
Map 2: Zoning Districts
Pierre, South Dakota
Hughes County
Map 1: Project Location

Legend

Existing Railroad Crossings
Overpass at Polk (Preferred Option)

Prepared by the
South Dakota Department of Transportation
U.S. Department of Transportation
Federal Highway Administration

EB 2008 Project

February 2008

1:100
2,200
3,300
Feet
FIGURES

Figure 1: Option A
Figure 2: Option B
Figure 3: Option C
Figure 4: Option D
Figure 5: Option D Detailed
Figure 6: Whistle Free RR Crossings
Figure 6: Whistle Free Crossings
Type 1 - 4 Quadrant

Type 2 - 2 Quadrant

Type 3 - 2 Quadrant w/ Raised Median
Pierre/DM&E Grade Separation & Whistle Free Crossing Study

<table>
<thead>
<tr>
<th>Location</th>
<th>Mile Post</th>
<th>DOT No.</th>
<th>2 Quad Gates</th>
<th>2 Addl Gates</th>
<th>4 Quad Gates</th>
<th>Exit Gate M S</th>
<th>Quiet Zone Ind</th>
<th>Wayside Horn</th>
<th>Pedestrian Gates</th>
<th>Utility Costs</th>
<th>Crossing Total</th>
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<tr>
<td>UPS Road</td>
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<td>189 840J</td>
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<td>$5,000.00</td>
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Column Totals

- $360,000.00
- $70,000.00
- $1,140,000.00
- $500,000.00
- $66,000.00
- $60,000.00
- $60,000.00
- $45,000.00
- $2,301,000.00

No Contingency

- 2007 Inflation Adjusted Costs (9.09%) $2,510,000.00
- 2008 Inflation Adjusted Costs (8.43%) $2,722,000.00
- Project Engineering (7.00%) $191,000.00
- Construction Administration (6.00%) $164,000.00
- 2008 Grand Total $3,097,000.00
March 1, 2007

Alice Whitebird
Department of Transportation
700 East Broadway Avenue
Pierre, South Dakota 57501

RE: SD DOT Project
    NH 2014(11)229  PCN 00T6
    Hughes County

Dear Ms. Whitebird:

The South Dakota Department of Environment and Natural Resources (DENR), Division of Environmental Regulation, has reviewed the above referenced project.

This office has no objections to the project, which should not result in any violations of applicable statutes or regulations provided the Department of Transportation and/or its contractor(s) comply with the following requirements.

SURFACE WATER QUALITY

1. All fill material shall be free of substances in quantities, concentrations, or combinations which are toxic to aquatic life.

2. Removal of vegetation shall be confined to those areas absolutely necessary to construction.

3. At a minimum and irregardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site. Any construction activity that disturbs an area of one or more acres of land must have authorization under the General Permit for Storm Water Discharges Associated with Construction Activities. Contact the Department of Environment and Natural Resources for additional information or guidance at 1-800-SDSTORM (737-8676) or www.state.sd.us/denr/des/surfacewater/stormwater.htm.
4. All material identified in the application as removed waste material, material stockpiles, dredged or excavated material shall be placed for either temporary or permanent disposal in an upland site that is not a wetland, and measures taken to ensure that the material cannot enter the watercourse through erosion or any other means.

5. Methods shall be implemented to minimize the spillage of petroleum, oils and lubricants used in vehicles during construction activities. If a discharge does occur, suitable containment procedures such as banking or diking shall be used to prevent entry of these materials into the waterway.

HAZARDOUS WASTES

1. Should any hazardous waste be generated during the implementation of this project, the generator must abide by all applicable hazardous waste regulations found in ARSD 74:28 and 40 CFR Part 262.

2. If any contamination is encountered during construction activities, the contractor, owner, or party responsible for the release must report the contamination to the department at (605) 773-3296. Any contaminated soil encountered must be temporarily stockpiled and sampled to determine disposal requirements.

3. It is not expected that any hazardous wastes sites will be encountered during road construction in any rural area. However, if road construction is planned for areas within a city or town, the DOT or contractor should contact this Department prior to construction.

AIR QUALITY

1. It appears that Department of Transportation projects may have only a minor impact on the air quality in South Dakota. This impact would be through point source and fugitive emissions.

2. Equipment with point source emissions in many cases are required to have an air quality permit to operate. Permit applications can be obtained from the Air Quality or Minerals and Mining Programs.

3. Fugitive emissions, although not covered under State air quality regulations, are a common source of public concern and may be subject to local or county ordinances. Fugitive emissions add to the deterioration of the ambient air quality and should be controlled to protect the health of communities within the construction areas.

4. For further air quality information, please contact Brad Schultz, Air Quality Program, telephone number (605) 773-3151.
This office requests the opportunity to review and comment on any significant changes that may be proposed before the project is completed. Thank you for the opportunity to comment on the proposed project. If you have any questions, please contact this office.

Sincerely,

[Signature]

John Miller  
Environmental Program Scientist  
Surface Water Quality Program  
Phone: (605) 773-3351
Memorandum To: Alice Whitebird, DOT

From: Doug Miller, DENR

Date: May 24, 2007

RE: Proposed DOT Construction Activities for Crossing Improvements in Pierre
    NH 2014(11)229 PCN 00T6 Hughes County

As per your request the Department of Environment and Natural Resources (department) has reviewed its files to determine if there is a potential for petroleum contamination to be encountered during the above proposed construction activities. If petroleum contaminated materials are removed during these activities they must be properly disposed at a department permitted facility. If contamination remains in-place following these activities appropriate response actions must be initiated to prevent any risks to human health or the environment.

A review of our spill data base indicates there are six reported releases in the general area of the proposed construction project. All of these cases are in No Further Action (NFA) status. Cases placed into NFA mean contamination remains, but no risks are currently present. If the risk potential changes at the sites, additional corrective actions may be required. Three of the cases were done under the department’s Abandoned Underground Storage Tank Program (ATP).

The ATP releases were associated with heating oil tanks and the extent of the contamination appears to be limited. Only one case had an estimated extent of contamination diagram. I have attached a listing of the release cases in the area of proposed construction.

The tank database shows there are three registered facilities in the proposed areas of construction. These facilities are; Kum & Go (Wells and Monroe), Chekkers (Capitol and Wells), and Young’s Mobil (Pleasant and Euclid). It is possible unknown releases could have occurred at these or other locations, which may have resulted in contamination in the areas of proposed construction.

It is hoped this information will be of some assistance to you. It should be noted, however, that the above is based on available information reported to the department. Unreported releases or tanks may be present in the areas of these projects. In addition, it is possible the location of reported releases is not accurate. Should you have any further questions please contact me.
<table>
<thead>
<tr>
<th>id</th>
<th>site_name</th>
<th>street</th>
<th>material</th>
<th>status</th>
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<tr>
<td>89.216</td>
<td>Farmers Union Coop</td>
<td>1500 Blk. E. Sioux</td>
<td>Petroleum Products</td>
<td>NFA</td>
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<td>89.335</td>
<td>Johnny's Amoco</td>
<td>103 East Pleasant Drive</td>
<td>Gasoline Unleaded</td>
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<td>98.154</td>
<td>Former 7-11 #552</td>
<td>1225 East Wells Avenue</td>
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<td>2002.355</td>
<td>Abandoned Tank Project - Buhl's Laundry</td>
<td>320 West Dakota Avenue</td>
<td>Oil</td>
<td>NFA</td>
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<td>2003.063</td>
<td>Abandoned Tank Project - Tobin/Gusso property oil spill</td>
<td>1122 East Sioux Avenue</td>
<td>Oil/Heating Fuel</td>
<td>NFA</td>
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<tr>
<td>2005.027</td>
<td>ATP - Fresh Start Convenience Store</td>
<td>1515 East Wells Avenue</td>
<td>Fuel Oil</td>
<td>NFA</td>
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<td>Activity Category</td>
<td>Leq(h)</td>
<td>L&lt;sub&gt;10&lt;/sub&gt;(h)</td>
<td>Description of Activity Category</td>
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</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
<td>-------------------</td>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>57 (Exterior)</td>
<td>60 (Exterior)</td>
<td>Lands on which serenity and quiet are of extraordinary significance and serve an important public need, and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.</td>
<td></td>
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<tr>
<td>B</td>
<td>67 (Exterior)</td>
<td>70 (Exterior)</td>
<td>Picnic areas, recreation areas, playgrounds, active sports areas, parks, residences, motels, hotels, schools, churches, libraries and hospitals.</td>
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</tr>
<tr>
<td>C</td>
<td>72 (Exterior)</td>
<td>75 (Exterior)</td>
<td>Developed lands, properties or activities not included in Categories A or B.</td>
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</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
<td>Undeveloped lands</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>52 (Interior)</td>
<td>55 (Interior)</td>
<td>Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals and auditoriums.</td>
<td></td>
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</tbody>
</table>

* Either L<sub>10</sub>(h) or Leq(h) [but not both] may be used on a project.

SOURCE: Federal Highway Administration
ATTACHMENT 3B
Predicted Year 2027 Noise Levels
R1, R2 and R3

***** CASE INFORMATION *****

***** Results calculated with TNM Version 2.5 *****

EM 2014(11)228  PCN 00T6  HUGHES COUNTY
Wells Ave. Year 2027 DHV: 320  T DHV: 1.1%

***** TRAFFIC VOLUME/SPEED INFORMATION *****

Automobile volume (v/h): 316.0
Average automobile speed (mph): 35.0
Medium truck volume (v/h): 4.0
Average medium truck speed (mph): 35.0
Heavy truck volume (v/h): 0.0
Average heavy truck speed (mph): 0.0
Bus volume (v/h): 0.0
Average bus speed (mph): 0.0
Motorcycle volume (v/h): 0.0
Average Motorcycle speed (mph): 0.0

***** TERRAIN SURFACE INFORMATION *****

Terrain surface: soft

***** RECEIVER INFORMATION *****

DESCRIPTION OF RECEIVER #  1
R1  Corner of Wells & Polk
Distance from center of roadway (ft): 138.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA): 48.7
**** CASE INFORMATION ****

**** Results calculated with TNM Version 2.5 ****

EM 2014(11)229 PCN 00T6 HUGHES COUNTY
East Sioux Ave. Year 2027 DHV: 1755  T DHV: 2%

**** TRAFFIC VOLUME/SPEED INFORMATION ****

Automobile volume (v/h): 1720.0
Average automobile speed (mph): 35.0
Medium truck volume (v/h): 21.0
Average medium truck speed (mph): 35.0
Heavy truck volume (v/h): 14.0
Average heavy truck speed (mph): 35.0
Bus volume (v/h): 0.0
Average bus speed (mph): 0.0
Motorcycle volume (v/h): 0.0
Average Motorcycle speed (mph): 0.0

**** TERRAIN SURFACE INFORMATION ****

Terrain surface: hard

**** RECEIVER INFORMATION ****

DESCRIPTION OF RECEIVER # 2

R2  Corner of E. Sioux & S. Jackson
Distance from center of roadway (ft): 36.7
A-weighted Hourly Equivalent Sound Level without Barrier (dBA): 68.4

DESCRIPTION OF RECEIVER # 3

R3  Corner of E. Sioux & S. Jefferson
Distance from center of roadway (ft): 65.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA): 65.9
February 22, 2008

Alice Whitebird
Department of Transportation
Office of Project Development – Environmental
700 E Broadway Avenue
Pierre SD 57501-2586

SECTION 106 PROJECT CONSULTATION - EVALUATION
Location: Hughes County
(DOT)

Dear Ms. Whitebird:

Thank you for the opportunity to comment on the above referenced project pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended). The South Dakota Office of the State Historic Preservation Officer (SHPO) concurs with your determination regarding the effect of the proposed undertaking on the non-renewable cultural resources of South Dakota.

The SHPO has made this consensus determination based on the information provided in the report, “An Intensive Cultural Resources Survey of Project No. NH 2014(11)229, PCN 00T6, Hughes County, South Dakota,” by Dan R. Byrne, and “A National Register of Historic Places Evaluation of Structure No. HU00000632, for SDDOT Project No. EM 2014(11)229, Hughes County, South Dakota,” by Adrienne M. Kerst and Paul V Miller, received on February 20, 2008. SHPO concurs with the determination that structure number HU00000632 should be considered as not eligible for the National Register of Historic Places, therefore we concur that this undertaking will have No Adverse Effect to historic properties based on the following stipulations. Stipulation 1) that SDDOT follow the recommendations made in the report for an archaeological monitor to be present for earth moving activities. Stipulation 2) if the project will impact other structures (specifically residences on the north side of Wells) SHPO be consulted before any construction begins. Stipulation 3) SHPO be notified and additional documentation concerning any impact to historical structures be submitted if an option other then 6A is
chosen for the project. Stipulation 4) Activities occurring in areas not identified in the original request will require the submission of additional documentation pursuant to 36 CFR part 800.4.

If historic properties are discovered or unanticipated effects on historic properties are found after the agency official has completed the Section 106 process, the agency official shall avoid, minimize or mitigate the adverse effects to such properties and notify the SHPO/THPO, and Indian tribes that might attach religious and cultural significance to the affected property within 48 hours of the discovery, pursuant to 36 CFR part 800.13.

Should you require additional information, please contact Amy Rubingh, Review and Compliance Archaeologist, at 773-8370. Your concern for the non-renewable cultural heritage of our state is appreciated.

Sincerely,

Jay D. Vogt
State Historic Preservation Officer

Amy Rubingh
Review and Compliance Archaeologist
February 16, 2007

Pete Gober, Field Supervisor  
U.S. Fish & Wildlife Service  
420 Garfield - Suite 400  
Pierre, SD 57501-5408

RE: NH 2014(11)229 PCN 00T6 HUGHES COUNTY  
RR Crossing Improvements in Pierre @ the “S” Curve & Pierre Street

Dear Mr. Gober:

The SDDOT is reviewing various options to improve two railroad crossings in Pierre. The crossings are located at Pierre Street (by the Federal Building) and at the “S” curve at Sioux and Wells Avenues. Three options are being considered for each crossing. Aerial views of the options are enclosed. Since this is not a stream crossing project, the SDDOT has determined that the project activities are not consistent with the BO.

Due to the location of this project, the SDDOT has determined that this project will have No Effect on the following federally listed threatened and endangered species which are known to occur in Hughes County:

<table>
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<th>Species</th>
<th>Occurrence</th>
<th>SDDOT Determination</th>
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<tbody>
<tr>
<td>Whooping Crane (E)</td>
<td>Known</td>
<td>No Effect</td>
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<tr>
<td>Bald Eagle (T) CH</td>
<td>Known</td>
<td>No Effect</td>
</tr>
<tr>
<td>Piping Plover (T)</td>
<td>Known</td>
<td>No Effect</td>
</tr>
<tr>
<td>Least Tern (E)</td>
<td>Known</td>
<td>No Effect</td>
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<tr>
<td>Pallid Sturgeon</td>
<td>Known</td>
<td>No Effect</td>
</tr>
</tbody>
</table>

Based on the above, the South Dakota Department of Transportation has determined that this project will have “No Effect” on the above species, and requests FWS concurrence with this determination.

Sincerely,

[Signature]

Alice Whitebird  
Environmental Office  
(605) 773-3309
February 20, 2007

Ms. Alice Whitebird  
Department of Transportation  
Division of Planning/Engineering  
Office of Project Development  
700 E. Broadway Avenue  
Pierre, SD 57501

RE: NH 2014(11)229 HUGHES COUNTY PCN 00T6  
RR Crossing Improvements in Pierre at the “S-Curve” & Pierre Street

Dear Ms. Whitebird:

The South Dakota Department of Game, Fish and Parks, Division of Wildlife, has reviewed the preliminary construction information on the above referenced project.

Based upon the information submitted with the preliminary coordination letter, we do not anticipate that the project will have any significant impacts to fish and wildlife resources. If the project design changes or if new information becomes available, please submit the updated plans for further review.

Thank you for the opportunity to provide comments. If you have any questions, please contact me at (605) 773-6208.

Sincerely,

Leslie Petersen  
Aquatic Resource Coordinator