SD Hwy. 231 from Sheffer St. to Mountain View Rd. and SD Hwy. 44 from Mountain View Rd. to 12th St.

Public Open House – March 10th, 2014

PROJECTS P 0044(167)44 PCN: 027K & PROJECT P 0231(13)79 PCN: 03CP

City/School Administration Building
300 Sixth Street
Rapid City, South Dakota
Purpose of this Meeting

- Involve Public in Design Process
  - Project Scope
  - Current Layout
  - Schedule

- Gather Public Input
  - Questions
  - Comments
Contacts

SDDOT
Sam Gilkerson
Project Manager
605-773-6588

City of Rapid City
Michelle Schweitzer
Project Manager
394-4154

CETEC
Engineering Services, Inc.
Rich Marsh
Project Manager
341-7800

Ferber Engineering Company, Inc.
Dave Muck
Project Manager
343-3311
Project Location
Background Information

- Pavement Constructed in 1960
- Bridge constructed in 1974
- Various Pavement Repair Projects
- Pavement is in poor condition throughout
- At end of useful life
Background Information - Traffic

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<tr>
<td>SD 231 N</td>
<td>6,710</td>
<td>7,750</td>
<td>6.8%</td>
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<tr>
<td>SD 44</td>
<td>19,735</td>
<td>22,794</td>
<td>3.1%</td>
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<tr>
<td>SD 231 S</td>
<td>6,710</td>
<td>7,750</td>
<td>6.8%</td>
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Accident History

- Accident rate state average is 2.58
  - Weighted Accident rate per million vehicle miles
- Most Accidents occur at Deadwood Ave. and Mountain View Rd. intersections
Project Improvements

- Replace deteriorating concrete pavement
- Increase traffic capacity for future
- 3’ shoulder for bicycle accommodation
- Design for ADA compliance
- Improve storm drainage and storm water quality
- New roadway lighting and traffic signals
- Upgrade City Utility Infrastructure
- Access management
- Bridge widening
Proposed Design – Bicycles / Pedestrians

- **Bicycles**
  - 3’ shoulder for bicycle accommodation on both sides of road

- **Pedestrians**
  - Sidewalk on South Side from Sheffer St. to Deadwood Ave.
  - Sidewalk on both sides from Deadwood Ave. to Mountain View Rd.
  - Sidewalk on south side from Mountain View Rd. to 12th Street
    - 5’ sidewalk with 5’-8’ grass/landscape boulevard
    - 6’ curbside sidewalk
Proposed Design - Signals

• Signals will be added at Cross Street and 12th Street
  ▫ 12th Street signals are part of a separate project to be constructed in 2014

• Signals will be replaced at Deadwood Ave. and Mountain View Rd. intersections
Proposed Design – Typical Section

• General Considerations
  ▫ Medians 20’± in width
  ▫ 8’ median with 12’ turn lanes

• Number of Lanes
  ▫ 4 lanes (2 each direction) from Sheffer Street to Deadwood Ave. intersection
  ▫ 5 lanes (3 west and 2 east) from Deadwood Ave. to Mountain View intersection
  ▫ 6 lanes (3 each direction) from Mountain View intersection to 12th Street
Proposed Design – Typical Section

Existing 100' Right-Of-Way

11'-0" Lane
11'-0" Lane
11'-0" Lane
20'-0" Landscape Median
11'-0" Lane
11'-0" Lane
11'-0" Lane

South Dakota DOT
Department of Transportation
Proposed Design – Turn Lane Section

Existing 100’ Right-Of-Way

11’-0” Lane

11’-0” Lane

11’-0” Lane

12’-0” Turn Lane

11’-0” Lane

11’-0” Lane

11’-0” Lane
Proposed Design – Bridge Section

85'-0" ± Proposed Deck

52'-0" Existing Deck

11'-0" Lane
11'-0" Lane
11'-0" Lane
20' Concrete Median
11'-0" Lane
11'-0" Lane

6'-0"

16'-0" ±
17'-0" ±

EXISTING BRIDGE AND APPURTENANCES

EXISTING
NEW

THIS POINT 0.13' ± HIGHER THAN

1.07% ±
W. OMAHA ST UTILITIES RECONSTRUCTION
CITY PROJECT 16-2099 OVERVIEW

• GENERAL SCOPE:
  • **WATER MAIN RECONSTRUCTION** TO IMPROVE FIRE FLOWS AND RESOLVE NONCONFORMING/NONCOMPLIANT SERVICES
  • **SANITARY SEWER RECONSTRUCTION** TO UPGRADE FACILITIES AND RESOLVE NONCONFORMING/NONCOMPLIANT SERVICES
  • **DRAINAGE IMPROVEMENTS** TO IMPROVE REGIONAL DRAINAGE SYSTEM AND TO IMPROVE STORMWATER QUALITY ENTERING RAPID CREEK

• CITY PROJECT EXTENTS:
  • WEST BOULEVARD TO SHEFFER STREET BETWEEN RAPID CREEK AND WEST MAIN STREET

• FOUR CONSTRUCTION PROJECTS BETWEEN 2015 AND 2018:
  • UTILITY AND DRAINAGE IN CONJUNCTION WITH DOT PROJECT (2017-2018)
  • DISC GOLF COURSE STORMWATER QUALITY ENHANCEMENT (2015-2016)
  • W. RAPID ST, CANAL ST AND OSHKOSH STREET UTILITY IMPROVEMENTS (2015)
  • 11TH AND 12TH STORMWATER OUTFALLS (2015-2016)
W. OMAHA ST UTILITIES RECONSTRUCTION

STORMWATER

STORM WATER QUALITY FACILITIES NEAR UNITED BLOOD SERVICES AND CITY BIKE SKILLS PARK.

PERMITTING OF SWQ FACILITIES WILL BE COMPLETED IN ACCORDANCE WITH 4(f) AND 6(f) OF THE LWCF ACT THROUGH THE SDGFP

11TH AND 12TH STREET OUTFALLS WITH SWQ FACILITIES

STORM WATER QUALITY FACILITIES IN DISC GOLF AND FOUNDERS PARK.
W. OMAHA ST UTILITIES RECONSTRUCTION
SANITARY SEWER

RESOLVE
NONCOMPLIANT/NONCONFORMING SERVICES

ABANDON OBSOLETE SANITARY SEWER MAINS
W. OMAHA ST UTILITIES RECONSTRUCTION
WATER SYSTEM

RESOLVE NONCOMPLIANT/NONCONFORMING SERVICES

IMPROVE SYSTEM LOOPING FOR FIRE FLOWS

ACCOMMODATE FUTURE LARGE DIA WATER MAIN

ABANDON OBSOLETE CAST IRON WATER MAINS
Right of Way

- Existing Right of Way (ROW)
  - Typically 100’ wide
  - Will need 105’ to 110’; acquisition will be necessary

- General Considerations
  - Temporary construction easements will be needed
  - Additional ROW may be needed for turn lanes, sidewalks, and ADA ramps
Encroachments

- Encroachments – Private Property located within the Public Right of Way
  - Federal Highway Regulations
  - Safety
  - Statewide Consistency
- Existing Encroachments
  - Signs, landscaping, fences, trees
- Property owners with encroachments will be notified
Utility Coordination

- Utility company coordination to relocate utilities is in progress
ENVIRONMENTAL, SOCIAL, & ECONOMIC CONCERNS

**Section 4(f) Property**

Project action will include all possible planning to avoid and minimize harm to publicly owned parks, recreational areas, wildlife & waterfowl refuges, or public & private historical sites. An evaluation of possible project effects on Founders Park, Mountain View Soccer Field, Omaha Street Disc Golf Course, and the Rapid City Biking Trail is being done with project.

**Section 106**

Section 106 of the National Historic Preservation Act requires Federal actions to take into account the effects of project undertakings on historic properties.

**Contaminated Materials**

Project undertaking will take into account contaminated soils with relation to existing aboveground and underground storage tanks within or adjacent to project’s area of potential effect.
ENVIRONMENTAL, SOCIAL, & ECONOMIC CONCERNS

**Air Quality**
Project occurs within the boundaries of the Rapid City Area Quality Control Zone and will comply with the Rapid City and the Pennington County Air Quality Ordinances.

**Wetlands**
Federal regulations require that unavoidable wetland impacts caused by highway construction be mitigated. Project is being reviewed to determine avoidance, minimization, and mitigation of impacts to wetlands.
Construction

- Phased
- Access maintained
- Future meetings for traffic sequencing
Landowner Meetings

- Held separately with affected landowners
  - Driveway locations/widths
  - Encroachments
  - ROW needs
  - Drainage concerns
- Landowners will be contacted by SDDOT/CETEC to schedule an appointment
- CORC questionnaire and additional property owner meetings
## Tentative Project Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Public Meeting</td>
<td>March 10&lt;sup&gt;th&lt;/sup&gt;, 2014</td>
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<tr>
<td>Landowners Meetings</td>
<td>Spring 2014</td>
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<tr>
<td>Final Plans for ROW</td>
<td>Fall 2014</td>
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<tr>
<td>ROW/ Easement Process</td>
<td>December 2014 – Fall 2015</td>
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<tr>
<td>Bid Letting</td>
<td>Fall 2016</td>
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<td>Construction</td>
<td>Fall 2016 – Summer 2017</td>
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</table>
Questions & Comments

Comment Forms or Letter to:

Rich Marsh, P.E.
CETEC Engineering Services, Inc.
1560 Concourse Drive
Rapid City, SD 57703

richm@cetecengineering.com

http://sddot.com/dot/publicmeetings/default.aspx

Please provide comments by March 24th, 2014

Meeting handouts and presentation will be on SDDOT website in two days