



1. 8th Ave NW Reconstruction- N. Main St. to Old 281
2. 3rd Ave SE Re-Surfacing- S. Roosevelt to S. Illinois St.
3. 3rd Ave SE Bridge
4. Mill & Overlay Project
5. 2nd Street Signal Upgrades- S. 2nd St. & 3rd Ave. SW
6. 5th Street Pedestrian Signal Upgrades- S. 5th St. & 15th Ave. SW
7. Railroad Crossing Improvements
8. Concrete Street Rehabilitation
9. Accessible Quadrant Replacement Program
10. Trenchless Sanitary Sewer Rehabilitation
11. Public Works Asphalt Patching and Chip-Sealing Project
12. West Side Water Distribution Loop
13. Watermain Replacement Program

# 2018 INFRASTRUCTURE PROJECTS

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## PREPARED BY: CITY OF ABERDEEN, SD ENGINEERING DEPARTMENT February, 2018

NOTE: THE NUMBERS ON THE PROJECTS LISTED BELOW CORRESPOND TO THE NUMBERS SHOWN ON THE CITY MAP ATTACHED TO THIS SHEET.

1. **8<sup>th</sup> AVE. NW RECONSTRUCTION:** The project will be done from Main St. going west to Old 281. The intersections of Main St. and 5<sup>th</sup> St. will be open to traffic during most of the project. 2<sup>nd</sup> St will have some work done on the corners to meet accessibility concerns, but should remain open to traffic. Water, Sewer and Storm Sewer upgrades will be done along with new Street Surface and Bike Path/Sidewalk improvements.
  - a. Budgeted Project Cost: \$ 3.1 million
  - b. Funding Sources: Special Sales Tax, Federal/State, Utility Revenue
  - c. Anticipated Start Date: May 2018
  - d. Anticipated Completion Date: November 2018
  - e. Public Impacts: Through Traffic will not be able to travel E-W, however North-South movements will be possible at some intersections. Properties adjacent to the project will have very limited access during the project.
  
2. **3<sup>RD</sup> AVE SE RE-SURFACING:** The 3<sup>rd</sup> Ave. SE Re-Surfacing project will provide a new concrete surface in an area between Roosevelt St. and Illinois St. The project will consist of milling the existing Asphalt Surface and gravel and undercutting some sub-standard soils. It will be replaced by placing a geo-grid, geotextile fabric and thicker gravel section and then placement of an 8" concrete surface. Detours around the project will be required to complete the work.
  - a. Budgeted Project Cost: \$600,000
  - b. Funding Sources: Special Sales Tax – Street
  - c. Anticipated Start Date: April 2018
  - d. Anticipated Completion Date: October 2018
  - e. Public Impacts: Significant impacts will be felt by the travelling public that regularly use 3<sup>rd</sup> Ave SE and the residences located within the construction area. The street will need to be fully closed in order to accomplish the construction.

- 3. 3<sup>RD</sup> AVE. SE BRIDGE:** The Bridge located on 3<sup>rd</sup> Ave SE, just west of Wilson St. will be reconstructed in order to handle full traffic loads. Currently the bridge is posted for 5 tons per vehicle. The project is slated to be handled through the SDDOT bid process.

  - a. Budgeted Project Cost: \$1.2 million
  - b. Funding Sources: Federal/State Funding, Special Sales Tax
  - c. Anticipated Start Date: Spring 2018
  - d. Anticipated Completion Date: Fall 2018
  - e. Public Impacts: Traffic will be re-routed/detoured for the full duration of the project.
  
- 4. MILL AND OVERLAY PROJECT:** The Mill and Overlay project consists of milling the top 2-3 inches of surfacing off of a street and replacing it with a new layer of asphalt driving surface. This will be the 9<sup>th</sup> year for this project. The process provides additional life to the street surface and improves the ride of the renovated street. Potential streets to be repaired this year will be on South Washington St, from 1st Ave. to 3<sup>rd</sup> Ave., 15th Ave NE from Dakota to Harrison St, N State St from 8<sup>th</sup> to 15<sup>h</sup> Ave, 1<sup>st</sup> Ave. S. from 2<sup>nd</sup> St SW to Kline St SE, and 8<sup>th</sup> Ave NE from Brown County 19 to Brown County 14. Typically, 10 to 12 blocks can be completed, depending on width and other conditions. Decisions on location are dependent upon many factors including traffic volume and condition.

  - a. Budgeted Project Cost: \$800,000
  - b. Funding Source: Special Sales Tax - Street
  - c. Anticipated Start Date: July 2018
  - d. Anticipated Completion Date: September 2018
  - e. Public Impacts: The duration of construction for these projects is very short – probably less than a week for each phase. Therefore, no special detours will be provided. Motorists will have to find an alternate route while construction is proceeding, but each phase will be open very quickly after construction is completed. Minimal impact to the traveling public. Adjacent property owners will see a disruption of approximately 1 to 1 1/2 weeks.
  
- 5. 2<sup>ND</sup> STREET SIGNAL UPGRADES:** The traffic signals at the intersection of 2<sup>nd</sup> St and 3<sup>rd</sup> Ave S will be replaced due to age and condition. The new system will be able to sense current traffic conditions and change due to those conditions.

  - a. Budgeted Project Cost: \$250,000
  - b. Funding Source: Special Sales Tax – Traffic Control
  - c. Anticipated Start Date: April 2018
  - d. Completion Date: July 2018
  - e. Public Impacts: Traffic disruption should be minimal because the majority of the work will be done off the driving surface. Motorists should expect traffic to be impeded occasionally during construction, but no total road closures are expected. Work is anticipated to last 1 to 2 months.

- 6. 5TH STREET PEDESTRIAN SIGNAL UPGRADES:** The pedestrian signals at the intersection of S. 5<sup>th</sup> St and 15<sup>th</sup> Ave SW will be replaced due to age and condition. The new system will enhance the ability to forewarn drivers of pedestrian usage on 5<sup>th</sup> St, and meet current MUTCD standards

  - a. Budgeted Project Cost: \$100,000
  - b. Funding Source: Special Sales Tax – Traffic Control
  - c. Anticipated Start Date: June 2018
  - d. Completion Date: August 2018
  - e. Public Impacts: Traffic disruption should be minimal because the majority of the work will be done off the driving surface. Motorists should expect traffic to be impeded occasionally during construction, but no total road closures are expected. Work is anticipated to last 1 month.
  
- 7. RAILROAD CROSSING IMPROVEMENTS:** The Railroad crossings at Dakota Street and State Street will be replaced to include Gates and medians. The improvements will meet new standards of safety.

  - a. Budgeted Project Cost: \$200,000
  - b. Funding Source: Special Sales Tax – Federal Safety Funds, Special Sales Tax-Street
  - c. Anticipated Start Date: June 2018
  - d. Completion Date: October 2018
  - e. Public Impacts: Full Road Closure will be necessary to complete these projects. Motorists can expect to be detoured from these crossings for an extended period of time.
  
- 8. CONCRETE STREET REHABILITATION:** This is an annual project for the City consisting of replacing damaged joints in concrete pavement. This year work will focus on Old Hwy 281 N, Dakota St, Roosevelt St, Melgaard Rd and Milwaukee Ave.

  - a. Budgeted Project Cost: \$180,000
  - b. Funding Source: Special Sales Tax - Street
  - c. Anticipated Start Date: April 2018
  - d. Completion Date: August 2018
  - e. Public Impacts: The Contractor will close portions of lanes in one direction or another. Traffic will generally be able to pass thru the construction area, but will experienced reduced speeds through the project.
  
- 9. ACCESSIBLE QUADRANT REPLACEMENT PROGRAM:** This is another annual project to bring sidewalk quadrants into compliance with ADA regulations regarding handicapped access. This year’s focus is primarily in the North part of town in conjunction with pedestrian traffic needs.

  - a. Budgeted Project Cost: \$180,000
  - b. Funding Source: Special Sales Tax - Street
  - c. Anticipated Start Date: May, 2018
  - d. Completion Date: July, 2018

- e. **Public Impacts:** Because most of the work occurs on the side of the street, little disturbance to motorists will be noted. Foot traffic in these areas will be diverted to sidewalks that will bypass the construction work.

**10. TRENCHLESS SANITARY SEWER REHABILITATION:** Sanitary Sewers are being lined to reduce the negative effects of infiltration into the pipes and reduce the potential collapse of older pipes in the community. Sanitary sewers **Citywide** are being evaluated, and will be prioritized based on pipe sizes, potential cross connections, and type of pipe.

- a. Budgeted Project Cost: \$250,000
- b. Funding Source: Utility Sanitary Fund
- c. Anticipated Start Date: September 2018
- d. Completion Date: November 2018
- e. **Public Impacts:** Very little disturbance to the travelling public is expected, since the installation takes place underground. There will be equipment at the beginning and end of each run that traffic can be routed around.

**11. PUBLIC WORKS ASPHALT PATCHING AND CHIP-SEALING PROJECT:** As part of the City's on-going street maintenance program, streets located from Jay St to Roosevelt St within the North Side of town, will be targeted. Approximately 240 blocks of asphalt streets will be patched and sealed this summer.

- a. Budgeted Project Cost: \$1.0 M
- b. Funding Source: Special Sales Tax - Street
- c. Anticipated Start Date: May 2018
- d. Completion Date: September 2018
- e. **Public Impacts:** During the time a particular street is being sealed, parking on that street will not be allowed. Property owner's access may be restricted for short times while the sealing operation is taking place.

**12. WEST SIDE WATER DISTRIBUTION LOOP:** This project is being done on the west side of town, in order to improve pressure issues being experienced in that area. In addition, it will allow excess capacity of other Water Towers to be shared with other areas in the community.

- a. Anticipated Project Cost: \$ 400,000
- b. Funding Sources: Utility Water Enterprise Fund, Special Sales Tax - Water
- c. Anticipated Start Date: May, 2018
- d. Completion Date: November, 2018
- e. **Public Impact:** The majority of the work will be completed off of the roadways, and should not have much impact on the traveling public.

**13. WATERMAIN REPLACEMENT PROGRAM:** This project is being done **Citywide** in order to reduce main breaks and rusty water complaints. The City notifies the directly affected property owners by letter. Those directly affected will have temporary water service provided by above ground piping. The work will be performed by Public Works forces, when time allows and will be done in areas of concern.

- a. Anticipated Project Cost: \$ 100,000
- b. Funding Sources: Utility Water Enterprise Fund
- c. Anticipated Start Date: May, 2018
- d. Completion Date: November, 2018
- e. Public Impact: Typically the areas are 1 to 2 blocks in length and there will be approximately a month of disruption during the varying phases of this process through re-paving. During the daytime, traffic is blocked from moving through the work zone. Normally the work zone area will be re-opened for access for evening and nighttime hours.