



Engineering Department

DATE: September 15, 2020
FROM: Gabe Schell, City Engineer
ITEM: NDDOT Urban Program Solicitation

REQUEST

Consider request to pursue NDDOT Urban Road, Urban Regional and Urban Grant program projects.

Please place this item on the 9/22/2020 City Commission meeting agenda.

BACKGROUND INFORMATION

The North Dakota Department of Transportation (NDDOT) is soliciting local public agencies for projects for the Urban Road, Urban Regional and Urban Grant programs. Project applications are due on September 30, 2020, to the Bismarck-Mandan Metropolitan Planning Organization (MPO) where they will be ranked and prioritized before sending to the NDDOT for review and potential award.

Urban Road Program

The Urban Road program is for functionally classified roadways within the Bismarck-Mandan Metropolitan Planning Organization's urbanized boundary. The dollars within the Urban Road program are eligible for projects from Morton County, Mandan, Burleigh County, Lincoln or Bismarck as long as they are on functionally classified roadways and are programmed by the MPO policy board which has representation from each of the previous political subdivisions. Upcoming projects programmed and their year of federal funding include Burleigh County's 43rd Ave 3-lane from 26th St to Roosevelt Dr in 2021, our 43rd Ave project from Washington St to State St in 2022 (being advanced constructed currently in 2020), Burleigh County's 66th St project from Apple Creek Rd to Northgate Dr in 2023, and the City's 43rd Avenue project from State St to 26th St in 2024 (but could be advanced constructed prior to 2024).

As per my recommendation and the Board action on July 14, 2020, Mandan's Old Red Trail between 56th Avenue and 40th Avenue would be recommended for programming

using the 2025 funding allotment. No further action is requested of this Board at this time.

Urban Regional Program

The Urban Regional program is for roadways on the NDDOT's regional system within a community. For Bismarck, these roadways are State Street, 7th Street, 9th Street, University Drive, and Bismarck Expressway. Projects for this program are coordinated with the NDDOT's Bismarck District and are selected by the NDDOT. The NDDOT has programmed a signal replacement project on 7th Street and 9th Street from Front Ave to Avenue C in 2022. The NDDOT has programmed pavement rehabilitation projects for 7th Street and 9th Street from Bismarck Expressway to Front Avenue as well as a State Street signal replacement, concrete pavement repair and grinding project for 2023. The project funding year is 2024 if the project(s) is selected to move forward.

The projects that I would recommend to NDDOT consist of the following:

1. US 83/State Street Multi-Use Trail - Calgary Avenue to 43rd Avenue
2. Bismarck Expressway Sidewalk – 18th Street to 26th Street
3. East Bismarck Expressway Concrete Pavement Repair - Rosser Avenue to I-94 Exit 161
4. University Drive/ND 1804 mill and overlay - Burleigh Avenue to Bismarck Expressway
5. 7th St and 9th St mill and overlay – 7th Street, Boulevard Avenue to Broadway Avenue and 9th Street, Boulevard Avenue to Main Avenue
6. Boulevard Avenue/State Street Concrete Pavement Repair – 6th Street to Divide Avenue

State Street Multi-Use Trail – Calgary Ave to 43rd Avenue

A multi-use trail on State Street from Calgary Avenue to 43rd Avenue would address the needs of pedestrian traffic along this corridor that is currently unmet. A pedestrian facility has historically been incorporated into the larger urbanization of a facility (i.e. State Street south of Calgary Avenue) but with the urbanization north of Calgary Avenue is not identified at least in the next 5 years, consideration should be given to meeting the pedestrian need in the interim. This facility would tie into and provide additional connectivity with the pedestrian facilities incorporated into the 43rd Avenue reconstruction from Washington Street to State Street currently under construction as well as the facilities planned for construction as part of the upcoming 43rd Avenue reconstruction from State Street to 26th Street. The local share is typically 10% of total construction costs. This project may also be pursued using NDDOT's Transportation Alternatives program as an alternative funding option.



Bismarck Expressway Sidewalk – 18th Street to 26th Street



Currently there are no pedestrian facilities along Bismarck Expressway east of 18th Street. There have been pedestrians sighted along the edge of the roadway. There are residential areas west of 18th Street seeking to reach the retail area east of 26th Street. There are pedestrian facilities existing south of 26th Street. This project may also be pursued using NDDOT's Transportation Alternatives and Highway Safety Improvement programs as alternative funding options.

E Bismarck Expressway Concrete Pavement Repair – Rosser Ave to I94 Exit 161



The concrete pavement repair project on East Bismarck Expressway would consist of street improvements including concrete pavement repairs, grinding, curb and gutter repairs, and inlaying plastic pavement marking.

Boulevard Avenue/State Street Concrete Pavement Repair – Divide Avenue to 6th Street



The request for this project is based on the pavement condition. According to the City of Bismarck's Pavement Management System score for this section of roadway, this section of roadway should have concrete pavement and joint sealant repairs performed.

Urban Grant Program

The Urban Grant program focuses on the inner core of communities with greater than 5000 in population. The focus of this program is reinvesting and fortifying a community's existing transportation assets which maximizes the public return on investment. The program focuses transportation investments inward toward the established community rather than outward expansion. There is \$4.6-\$7.6 million annually available statewide for this competitive grant program. The NDDOT is soliciting for 2023 projects at this time.

The project that I would recommend pursuing is located on perimeter of the of the two pervious Urban Grant Projects rehabilitating the downtown streets. This project will include 3rd Street from Main Avenue to Rosser Avenue, Rosser Avenue from 3rd Street to 7th Street, Broadway from 3rd Street to 4th Street and Broadway from 6th Street to 7th Street (cyan in the exhibit below). The pavement rehabilitation project would consist of street improvements including mill and overlay, curb and gutter repairs, sidewalk repairs, inlaying plastic pavement marking, roadway and pedestrian lighting, signage and traffic signal improvements to provide actuated leading pedestrian intervals.

Urban Grant – Downtown Core Fringe



RECOMMENDED CITY COMMISSION ACTION

Recommend approval of pursuing the following projects for NDDOT federal aid:

Urban Roads – 43rd Avenue - State Street to 26th Street based on MPO's Metropolitan Transportation Plan prioritization.

Urban Regional –

1. US 83/State Street Multi-Use Trail - Calgary Avenue to Skyline Boulevard
2. Bismarck Expressway Sidewalk – 18th Street to Burlington Drive
3. East Bismarck Expressway Concrete Pavement Repair - Rosser Avenue to I-94 Exit 161
4. University Drive/ND 1804 mill and overlay - Bismarck Expressway to Burleigh Avenue
5. 7th and 9th One-way pair mill and overlay – 7th Street, Boulevard Avenue to Broadway Avenue and 9th Street, Boulevard Avenue to Main Avenue
6. Boulevard Avenue/State Street Concrete Pavement Repair – Divide Avenue to 6th Street

Urban Grant – Downtown street pavement rehabilitation – East of 3rd Street to 7th Street and Rosser Avenue to Main Avenue not completed in previous projects

STAFF CONTACT INFORMATION

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