



Engineering Department

DATE: April 6, 2021
FROM: Gabe Schell, City Engineer
ITEM: Intersection Improvement Safety Project– HC 127

REQUEST

Consider approval of award of Intersection Improvement Safety Project SHE-1-083(137)901, HC 127

Please place this item on the 4/13/2021 City Commission meeting agenda.

BACKGROUND INFORMATION

The North Dakota Department of Transportation (NDDOT) will receive bids for this project on April 9, 2021. The Board of City Commissioners approved the Cost Participation, Construction, and Maintenance Agreement with NDDOT at their March 9, 2021 meeting which outlined a federal cost participation of 90% of eligible project costs up to a maximum of \$325,277.47.

The project consists of crosswalk improvements and rectangular rapid flash beacons (RRFB) at the intersections of 7th Street Avenue D/7th Street/Avenue E, 9th Street /Avenue D, and 9th Street/ Avenue E near Bismarck High School. This project is included in the 2021 Capital Improvement Program with the funding source identified as sales tax for the matching costs.

A bid tabulation and project budget will be provided at the April 13, 2021 meeting. The NDDOT will review the low bidder's proposal to assure the Disadvantaged Business Enterprise (DBE) Program requirements have been met. Upon review, the NDDOT will advise whether or not this project may be awarded.

RECOMMENDED CITY COMMISSION ACTION

Consider bids and award HC 127 contingent upon successful review of DBE requirements and advisement by NDDOT that the project can be awarded.

STAFF CONTACT INFORMATION

Gabe Schell, PE | City Engineer, 355-1505 or gschell@bismarcknd.gov

DESIGN DATA - 7th STREET				
TRAFFIC	AVERAGE DAILY			MAX HR
CURRENT: 2018	PASS: 10,895	TRUCKS: 140	TOTAL: 11,035	-
FORECAST: 2040	PASS: 11,415	TRUCKS: 233	TOTAL: 11,648	-
Clear Zone Distance: 14'		Design Speed: 25 mph		
Minimum Sight Dist. for Stopping: 250'		Bridges: N/A		
Minimum Sight Dist. for Safe Passing: N/A		Sight Dist. for No Passing Zone: N/A		
Pavement Design Life: N/A				
DESIGN DATA - 9th STREET				
TRAFFIC	AVERAGE DAILY			MAX HR
CURRENT: 2019	PASS: 11,804	TRUCKS: 241	TOTAL: 12,045	-
FORECAST: 2040	PASS: 11,956	TRUCKS: 244	TOTAL: 12,200	-
Clear Zone Distance: 14'		Design Speed: 25 mph		
Minimum Sight Dist. for Stopping: 250'		Bridges: N/A		
Minimum Sight Dist. for Safe Passing: N/A		Sight Dist. for No Passing Zone: N/A		
Pavement Design Life: N/A				

JOB # 28

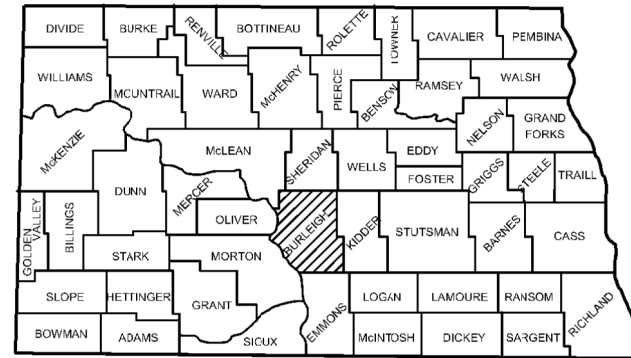
CITY OF BISMARCK

SHE-1-083(137)901
City Project HC-127

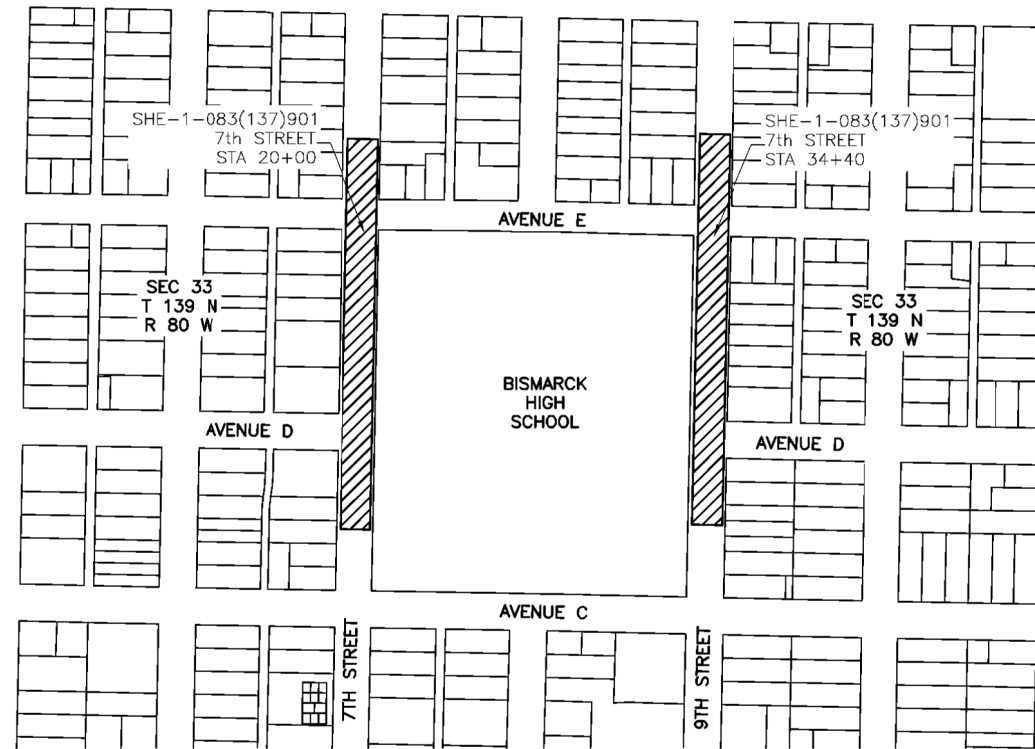
Burleigh County
Bismarck, North Dakota
7th Street, 9th Street, Avenue D and Avenue E
Aggregate Base Course, Hot Mix Asphalt, Curb & Gutter, Sidewalk,
RRFB, Signing & Pavement Marking

STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
ND	SHE-1-083(137)901	22836	1	1

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	10/1/2020
Supplemental Specifications	NONE



STATE OF NORTH DAKOTA



DESCRIPTION	LENGTH OF PROJECT	
	NET MILES	GROSS MILES
7th Street	0.50	0.50
9th Street	0.50	0.50
Total	1.00	1.00

DESIGNER Gabe Schell, PE
DESIGNER Aaron Schmidt, PE
DESIGNER Mark Berg, PE
DESIGNER Michael Mart, PE
DESIGNER Amy Davis

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE 02/01/21

GABE SCHELL /s/
CITY OF BISMARCK, ND

CITY OF BISMARCK

This document was originally issued and sealed by Gabriel J. Schell, Registration Number PE-6876, on 02/01/21 and the original document is stored at the Bismarck Engineering Department