



City of Grand Forks Staff Report



Committee of the Whole – March 25, 2019
City Council – April 1, 2019

Agenda Item: Plans and Specifications for City Project No. 7954, Traffic Signals and Turn Lanes at Demers Avenue and Columbia Road West Ramp

Submitted by: Engineering Department, Mark S. Walker, PE (Assistant City Engineer)
Mike Yavarow, PE (Civil Engineer Principal)

Staff Recommended Action: **Approve Plans and Specifications for City Project No. 7954, Traffic Signals and Turn Lanes at Demers Avenue and Columbia Road West Ramp**

Committee Recommended Action: Refer to City Council with the recommendation to approve.

Council Action:

BACKGROUND:

This project is being proposed by the North Dakota Department of Transportation (NDDOT) and is intended to construct a new traffic signal system and turn lanes at the intersection of Demers Avenue and the west on/off ramps of Columbia Road. The project will incorporate the driveway of the Boden Apartment as the fourth leg of the signalized intersection adding the ability to make through or left turns from the driveway. Currently, the driveway includes a median which restricts movements to right in and right out. New left turn lanes will be added for eastbound and south bound traffic and left turn lanes will be aligned to have positive/zero offsets. In addition signalized crosswalks will be added on all legs of the intersection.

Demers Avenue was rehabilitated in 2017 and the ramps were rehabilitated in 2013. On September 4, 2018 Council approved a Preliminary Engineering Reimbursement Agreement with the NDDOT for this project. On November 5, 2018 Council approved the Categorical Exclusion Document, concurred with the project concepts as proposed, and selected to construct the traffic signals and turn lanes. On March 4, 2019, the Council approved the Cost Participation and Maintenance agreement with the NDDOT.

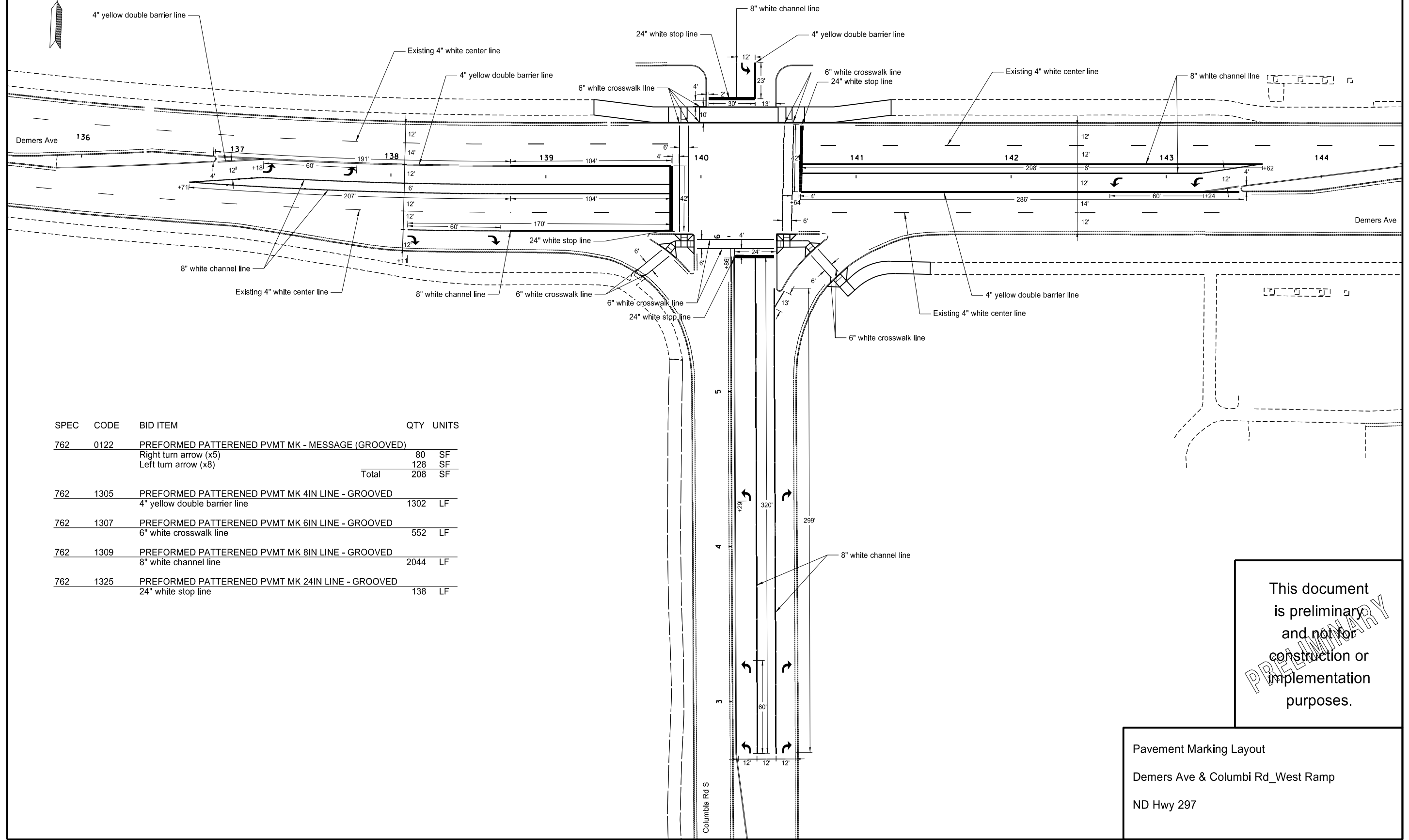
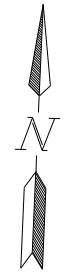
ANALYSIS AND FINDINGS OF FACT:

- The proposed project funding split for eligible project expenses is 80.93% Federal, 9.07% State, and 10% Local.
- The current estimated total project costs are as follows:

\$768,000	Total Cost
\$ 69,658	Less State Share
<u>\$621,542</u>	Less Federal Share
\$ 76,800	Local Share
- Funding for the City share will be from the Street/Infrastructure Fund 4815.
- Although the City share for this project is currently estimated to be greater than the amount included in the Street/Infrastructure Fund for this project, any additional funds needed for this project will be from unused money from the other projects listed in the Street/Infrastructure Fund that were not constructed or under budget.
- Bids are planned to be opened on April 12, 2019 at the NDDOT in Bismarck.
- It is expected that this project will again be placed on the April 8th Committee of the Whole and April 15th Council agendas for concurrence of bid award.
- Construction is currently anticipated to take place during the 2019 construction season.

SUPPORT MATERIALS:

- Project Location Map showing proposed lane configuration (1 page)
- Page 320 from the 2019 City Budget indicating Local funding source for this project (1 page)



SPEC	CODE	BID ITEM	QTY	UNITS
762	0122	PREFORMED PATTERNED PVMT MK - MESSAGE (GROOVED)		
		Right turn arrow (x5)	80	SF
		Left turn arrow (x8)	128	SF
		Total	208	SF
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE - GROOVED		
		4" yellow double barrier line	1302	LF
762	1307	PREFORMED PATTERNED PVMT MK 6IN LINE - GROOVED		
		6" white crosswalk line	552	LF
762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE - GROOVED		
		8" white channel line	2044	LF
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE - GROOVED		
		24" white stop line	138	LF

This document
is preliminary
and not for
construction or
implementation
purposes.

Pavement Marking Layout
Demers Ave & Columbi Rd_West Ramp
ND Hwy 297



Street & Infrastructure

Budget Year 2019

G/L Account	Account Description	2016 Amended Budget	2016 Actual Amount	2017 Amended Budget	2017 Actual Amount	2018 Adopted Budget	2019 Adopted Budget
Fund 4815 - Street/Infrastructure Fund							
	Adopted Budget					1.0000	300,000.00
	Minor Street Repair						300,000.00
	Adopted Budget					1.0000	2,385,000.00
	Street Mtce Program (3% Increase per Year)						2,385,000.00
	Adopted Budget					1.0000	80,000.00
	Intelligent Transportation System						80,000.00
	Adopted Budget					1.0000	60,000.00
	LED Street Light Replacement Program						60,000.00
	Adopted Budget					1.0000	20,000.00
	Diamond Grade Reflectivity of Signs						20,000.00
	Adopted Budget					1.0000	200,000.00
	N Washington CPR & Grind (8th Ave N to Gateway Dr)						200,000.00
	Adopted Budget					1.0000	11,000.00
	Advanced Ped Walk 42nd St. and Columbia Rd Corridors						11,000.00
	Adopted Budget					1.0000	50,000.00
	US Hwy 2 & N 55th St Traffic Signal						50,000.00
	Adopted Budget					1.0000	255.00
	Red Light Confirmation Indicators on Gateway						255.00
	Adopted Budget					1.0000	744,000.00
	N 62nd (10th to Gateway) (SIG Econ Devel)						744,000.00
	Adopted Budget					1.0000	100,000.00
	ADA/MPO/Other Consulting Services						100,000.00
	Adopted Budget					1.0000	369,000.00
	32nd Ave S Turn Lanes (Corridor Improvements)						369,000.00
	Adopted Budget					1.0000	20,000.00
	Washington Street Underpass Evaluation						20,000.00
	Adopted Budget					1.0000	47,600.00
	Washington St (Hammerling to 8th Ave N) ADA Ramps						47,600.00
	Adopted Budget					1.0000	150,000.00
	Point Bridge Rehabilitation (Portion from Bridge Reserve)						150,000.00
	Adopted Budget					1.0000	381,600.00
	S 42nd St (34th to 40th Ave S; Rural Section)						381,600.00
	Adopted Budget					1.0000	616,000.00
	Cherry St (60th to 62nd Ave S)						616,000.00
	Adopted Budget					1.0000	111,000.00
	N 5th St (Gateway to Demers-Mill & Overlay)						111,000.00
	Adopted Budget					1.0000	715,001.00
	Business US 2 Reconstruction (Demers to Red River)						715,001.00
	Adopted Budget					1.0000	60,000.00
	Demers Ave Traffic Signal						60,000.00
	Adopted Budget					1.0000	100,000.00
	Large Project Update/Continuation						100,000.00
	Adopted Budget					1.0000	80,000.00
	Bikepath Maintenance						80,000.00
	Adopted Budget					1.0000	232,408.00
	Bikepath Development (New)						232,408.00
	Adopted Budget					1.0000	50,000.00
	Quiet Zone Redundancy						50,000.00
	Adopted Budget					1.0000	100,000.00
	Maintenance of Street Lights						100,000.00
	Adopted Budget					1.0000	100,000.00
	Minor Intersection Improvement						100,000.00
	Adopted Budget					1.0000	80,000.00
	Transportation Studies						80,000.00
	Adopted Budget					1.0000	60,000.00
	Pavement Management						60,000.00
	Adopted Budget					1.0000	445,600.00
	S 34th St (45th to 47th Ave S)						445,600.00
	Adopted Budget					1.0000	50,000.00
	Consulting Assistance for Specifications Revisions						50,000.00
	Adopted Budget					1.0000	728,800.00
	N 36th St (20th to 24th Ave N) (SIG Econ Devel)						728,800.00