



City of Grand Forks Staff Report (UPDATED APRIL 12, 2019)

APPROVED & ACCEPTED
by City Council

04/15/2019

Maureen Storstad
Maureen Storstad
City Auditor

Committee of the Whole – April 8, 2019
City Council – April 15, 2019

Agenda Item: Bids for City Projects No. 7953 and 7954 - Traffic Signals and Turn Lanes at Gateway Drive & N 55th Street and 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: Concur in award of contract to low bidder for City Projects No. 7953 and 7954 - Traffic Signals and Turn Lanes at Gateway Drive & N 55th Street and Traffic Signals and Turn Lanes at Demers Avenue and Columbia Road West Ramp, contingent upon concurrence from the NDDOT

Committee Recommended Action: approved unanimously

Council Action:

BACKGROUND:

Bids for this project were opened on April 12, 2019 at the North Dakota Department of Transportation (NDDOT) in Bismarck. A total of 2 bids were received and both were opened. The lowest bid received was from Strata Corporation in the amount of \$1,997,946.09. The NDDOT will need to review and analyze various data from the low bidder before they will actually award. In the event the lowest bidder did not comply with bidding requirements to the satisfaction of the NDDOT, award will then be made to the next lowest bidder who successfully complied with bidding requirements. Since this is a Regional funded project, the NDDOT will award the contract and the City must concur in the award.

This bid will include two traffic signals and turn lane projects, one at Gateway Drive and N 55th Street and one at Demers Avenue and the west on/off ramps of Columbia Road. Both projects are being proposed by the NDDOT and are intended to install a new traffic signal system and turn lanes at both intersections.

The Gateway/55th project is proposed to be funded with 80.93% Federal and 19.07% State funding with no City share. The Demers/Columbia west ramp project is proposed to be funded with 80.93% Federal funding, 9.07% State funding, and 10% City funding. The City's share of the total project cost based on the low bid is \$103,838.

For the Gateway Drive/55th Street project, left turn lanes will be installed on all approaches with positive/zero offsets and new right turn lanes will be installed for northbound and westbound traffic. A right turn lane currently exists for eastbound traffic. Intersection lighting will be installed that will light the full width of turn bay lengths on all approaches. The signal will be interconnected with the city traffic control system by installing a fiber optic cable from the signal at 47th Street/Gateway westward to the new signal location.

For the Demers/Columbia Road ramp project, 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.

This project has been considered at a number of previous Council/Committee/Public meetings, some of which are as follows:

- This project has been programmed for several years and has been included on the ND Department of Transportation's listing for projects eligible for Federal Highway Urban Funding
- September 4, 2018 – Council approved Preliminary Engineering agreements for both projects.
- November 5, 2018 – Council approved Categorical Exclusion, concurred with the project concepts as proposed, and selected to construct the traffic signals and turn lanes at both project locations.
- February 4, 2019 – Council approved a Cost Participation and Maintenance Agreement with the NDDOT for the Demers/Columbia West Ramp.
- March 4, 2019 – the Council approved a Cost Participation and Maintenance Agreement with the NDDOT for the Gateway/55th Street project.
- April 1, 2019 – Council approved the Plans and Specifications for both projects.

ANALYSIS AND FINDINGS OF FACT:

- Bids for this project were received by the NDDOT in Bismarck on April 12, 2019.
- A total of 2 bids were received and both bids were opened.
- The bids received ranged from \$1,997,946.09 to \$2,080,855.76.
- The lowest bid received for this project was from Strata Corporation in the amount of \$1,997,946.09
- The Engineer's Estimate for both signal projects is \$1,872,188.40.
- The lowest bid received was approximately 7% above the Engineer's Estimate.
- Because bids will be received at the NDDOT bid letting and because the NDDOT will need to review and analyze various data from the bidder before they will award, a recommendation of award will not likely be available for the April 15 Council meeting; however, there is a reasonable probability that the low bidder will be the recommended contractor.

- For the Gateway/55th project, the proposed project funding split for eligible project expenses is 80.93% Federal, 19.07% State, and 0% City. Total project costs based on the low bid and including engineering, lands, and construction, are as follows:

\$1,159,353	Total Cost
\$ 938,264	Less Federal Share
<u>\$ 221,089</u>	Less State Share
\$ 0	City Share
- For the Demers/Columbia west ramp project, the proposed project funding split for eligible project expenses is 80.93% Federal, 9.07% State, and 10% City. Total project costs based on the low bid and including engineering, lands, and construction, are as follows:

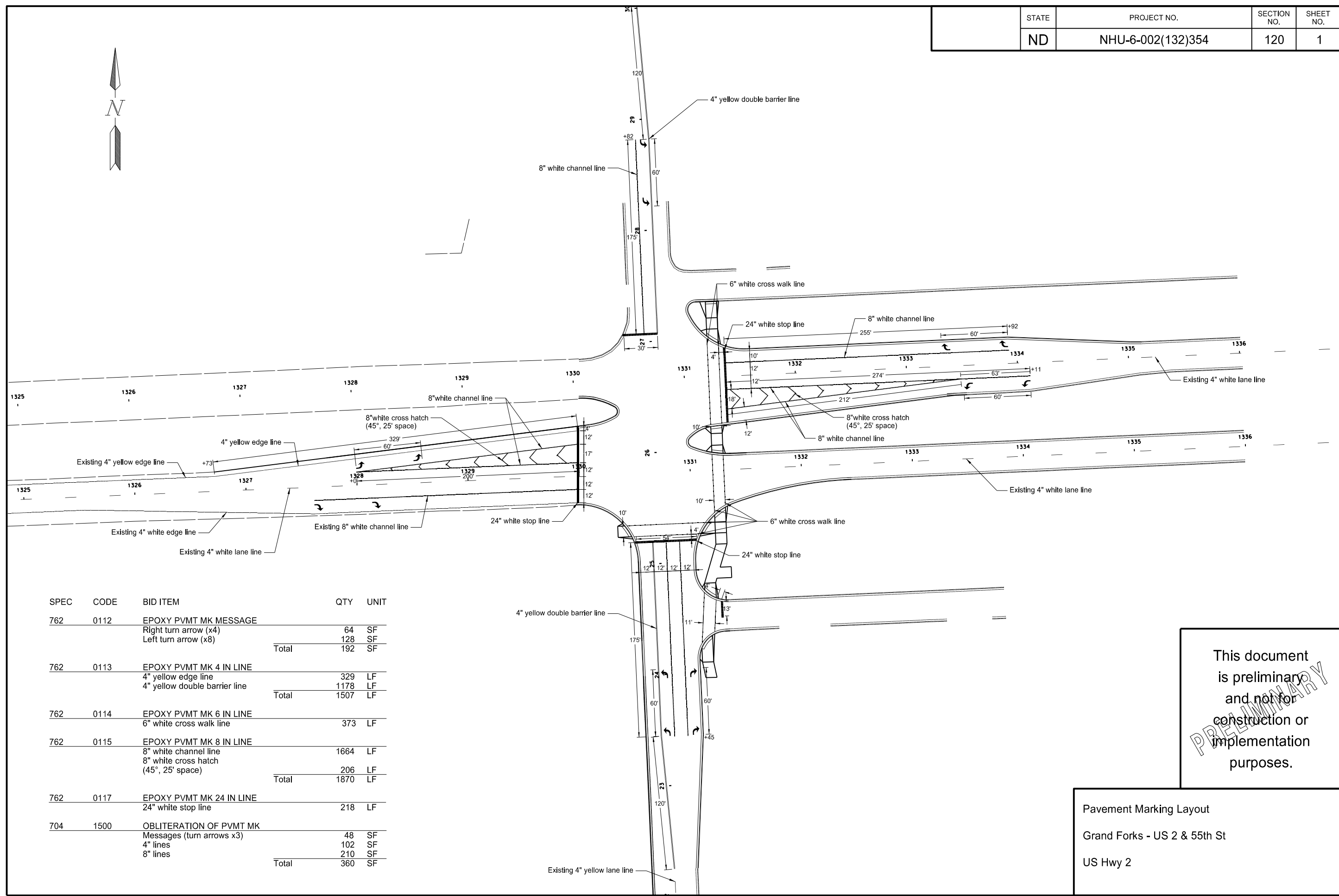
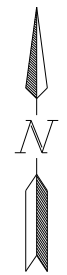
\$ 1,038,388	Total Cost
\$ 840,368	Less Federal Share
<u>\$ 94,182</u>	Less State Share
\$ 103,838	City Share
- Funding for this project will come from the Street Infrastructure Fund 4815.
- Construction is scheduled to take place during the 2019 construction season.

SUPPORT MATERIALS:

- Abstract of Bids Received (1 page)
- Project Location Maps showing proposed lane configuration (2 pages)
- Page 320 from the 2019 City Budget indicating Local funding source for this project (1 page)

029 - 20190412029 GRAND FORKS	AGGREGATE BASE; PCC; HOT BIT; CURB & GUTTER; SIGNALS; SIGNING; TURN LANES	9048	ENGINEERS ESTIMATE	607 E BOULEVARD AVE BISMARCK , ND 58505-0606	Yes	0.00%	\$1,872,186.40
		180	STRATA CORPORATION	PO BOX 13500 GRAND FORKS , ND 58208-3500	Yes	0.13%	\$1,997,946.09
		1210	MOORHEAD ELECTRIC LLC	3451 UNIVERSITY DR S FARGO , ND 58104-6225	Yes	0.00%	\$2,080,855.76

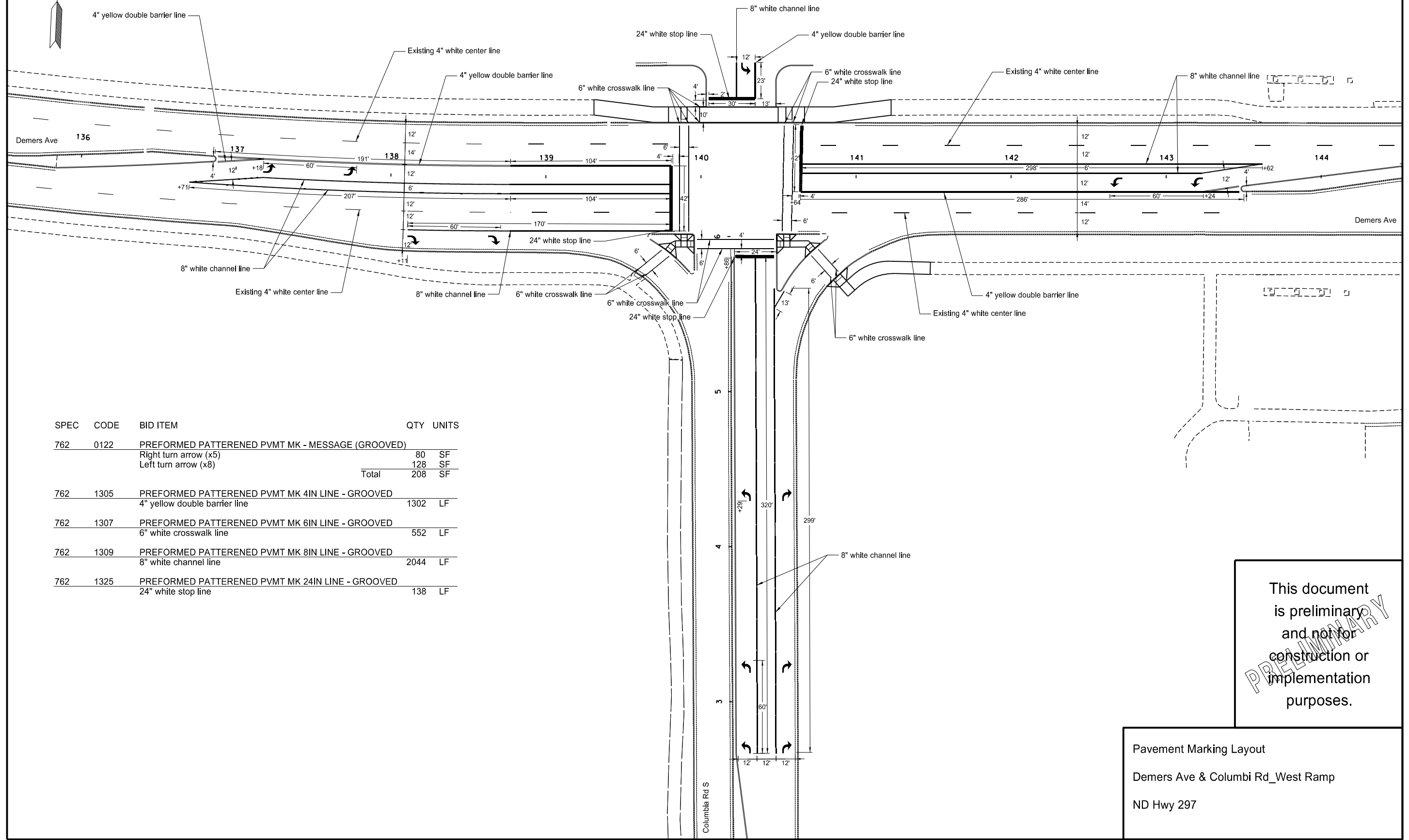
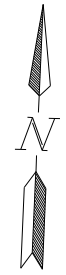
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NHU-6-002(132)354	120	1



SPEC	CODE	BID ITEM	QTY	UNIT
762	0112	EPOXY PVMT MK MESSAGE		
		Right turn arrow (x4)	64	SF
		Left turn arrow (x8)	128	SF
		Total	192	SF
762	0113	EPOXY PVMT MK 4 IN LINE		
		4" yellow edge line	329	LF
		4" yellow double barrier line	1178	LF
		Total	1507	LF
762	0114	EPOXY PVMT MK 6 IN LINE		
		6" white cross walk line	373	LF
762	0115	EPOXY PVMT MK 8 IN LINE		
		8" white channel line	1664	LF
		8" white cross hatch (45°, 25' space)	206	LF
		Total	1870	LF
762	0117	EPOXY PVMT MK 24 IN LINE		
		24" white stop line	218	LF
704	1500	OBLITERATION OF PVMT MK		
		Messages (turn arrows x3)	48	SF
		4" lines	102	SF
		8" lines	210	SF
		Total	360	SF

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is preliminary
and not for
construction or
implementation
purposes.

Pavement Marking Layout
Grand Forks - US 2 & 55th St
US Hwy 2



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

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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