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2018 Street & Utility Improvements

Preliminary Engineering ReportCity of Lewiston

Submitted by:

Bolton & Menk, Inc. 2900 43rd Street NW Suite 100 Rochester, MN 55901 P: 507-208-4332 F: 507-208-4155

Certification

Preliminary Engineering Report

for

2018 Street & Utility Improvements

City of Lewiston, MN BMI No. H19.113656

October 2017

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

By:

Brian P. Malm, P.E. License No. 40457

Date: October 20, 2017

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1.0 EXECUTIVE SUMMARY

The existing streets and utilities within the project area are deteriorated and in need of repair. If the infrastructure is not replaced, maintenance costs will continue to rise as further deterioration occurs, and ultimately the street and utilities will fail.

The proposed improvements include the replacement of the existing sanitary sewer and water main systems, bituminous surface, curb and gutter, and the addition of concrete sidewalk. The reconstruction would also include the replacement and addition of storm sewer to improve drainage along the street and provide an outlet for sump pumps.

The estimated cost of the proposed improvements is \$5,066,422.67. Funding for the proposed improvements is proposed to come from the sale of an improvement bond, to be repaid through special assessments, enterprise funds and ad valorem funds. The improvement bond for the project would be issued under the authority of Minnesota State Statute 429.

According to the City's assessment policy, the proposed improvements are assessable to the benefitting properties as follows:

- Street Reconstruction, Sanitary Sewer and Water Main 20% Assessable, 80% City Cost
- Storm Sewer 0% Assessable, 100% City Cost
- Applying the assessment policy to the project costs, results in a per foot assessment rate of \$95.01 per foot. The average assessment is \$8,667.03 per parcel. Actual per parcel assessments will vary depending on lot frontage.

According to Minnesota Statute 429, special assessments for improvement projects must not exceed the special benefit to the properties being assessed. Based on court cases, the special benefit has been determined to be equivalent to the increase in property value as a result of the improvement. In addition, the statute states that projects financed through an improvement bond must assess at least 20% of the total project cost.

From an engineering standpoint, the proposed improvements are feasible, cost effective, necessary, and can be best be accomplished by letting competitive bids for the work. If the Council chooses to proceed with this project, we recommend that the Council accept this Preliminary Engineering Report and call for a public hearing on the proposed improvements. The proposed schedule for the project is as follows:

- Design, Hearings, Approvals, Bidding and Award of Contract October 2017 April 2018
- Assessment Notices and Hearings October & November 2018
- Construction May 2018 October 2018

2.0 PROJECT INTRODUCTION

This Preliminary Engineering Report considers street and utility reconstruction on Rice Street from TH 14 to Main Street, First Street from Fremont Street west to the cul de sac, Second Street from Fremont Street to Benike Street, Country Club Drive from Benike Street west to the cul de sac and Benike Street from Second Street north to the dead end. The project location is shown on Figure No. 1 of Appendix A.

In accordance with Minnesota Statutes, Chapter 429, the City Council has authorized the preparation of a preliminary engineering report to define the scope and determine the feasibility of the proposed project. The specific objectives of this Preliminary Engineering Report are to:

- 1. Evaluate the need for the project.
- 2. Determine the necessary improvements.
- 3. Provide information on the estimated costs for the proposed project.
- 4. Determine the project schedule.
- 5. Determine the feasibility of the proposed project.

The project as proposed would consist of reconstructing the streets indicated above, total length of the project is 6,072 feet. Specific items of construction along the corridor will consist of:

- 1. Removal of existing pavement and curb and gutter.
- 2. Removal and replacement of sanitary sewer.
- 3. Removal and replacement of water main.
- 4. Removal and replacement of storm sewer.
- 5. Installation of bituminous pavement with concrete curb and gutter.
- 6. Installation of concrete sidewalk and driveway aprons.
- 7. Turf Establishment

3.0 EXISTING CONDITIONS

3.1 STREET AND SURFACE

The streets considered here are all bituminous surfaced with varying width and have concrete curb and gutter on both sides. All streets show significant structural failure to the point where full reconstruction, rather than rehabilitation, is warranted. The condition of the existing streets are shown in the photos below.



First Street



Country Club Drive



Second Street



Rice Street

3.2 STORM SEWER

Surface runoff from within the project area is collected by multiple storm sewer systems. In Rice Street, north of Williams Street, surface runoff is collected in a storm sewer system on the north side of Williams Street and is conveyed easterly in Williams Street. This system was constructed with the first phase of the Williams Street project. South of Williams Street surface runoff is collected and conveyed to Main Street where it drains easterly and is discharged under the rail road tracks to the south. The storm sewer within Rice Street is believed to be in excess of 40 years old and shows significant deterioration of the catch basins and manholes.

First Street South has two storm sewer systems within the project area. The first system is located at the intersection of First Street and Fremont Street. This system collects surface runoff from the easterly 400-feet of First Street and conveys it north to Main Street. The second storm sewer system in First Street South collects surface runoff at approximately halfwaybetween Benike Street and the cul de sac. This storm water is conveyed to the south and discharges into a drainage ditch on the golf course property.

Second Street South and Country Club Drive have two separate storm sewer systems within the project area. The first system collects surface runoff east of Benike Street and conveys that runoff east to Fremont Street and then north in Fremont Street. The second system collects surface runoff from west of Benike Street to the cul de sac. This storm water is conveyed westerly to the drainage ditch on the golf course property.

Benike Street does not contain any storm sewer within the project area.

The existing storm water drainage system is shown on Figure No. 2 in Appendix A.

The storm sewer systems within the project area shows significant signs of deterioration and are all in need of reconstruction. The catch basins and pipe size are inadequate to handle the runoff to meet the city's design standard. Additionally, in most cases, storm sewer is in the way to reconstruct the sanitary sewer and water main and therefore will need to be reconstructed in order facilitate the other utilities reconstruction.

3.3 SANITARY SEWER

Sanitary sewer is present throughout the project area and is one of the driving reasons why the city is considering reconstructing these streets. A report evaluating the condition of the underground utilities was previously submitted to the Lewiston City Council for their review. That report is included in Appendix D of this report. The report indicates the sanitary sewer throughout the project area has exceeded its life expectancy and is need of

reconstruction. In addition to what is included in the report, the existing lift station, located between First Street and Country Club Drive, which is a wet-well/dry-well lift station, is deteriorated and has out-lived its expected life. Based on its age and condition, it should be replaced with a new submersible pump lift station and forcemain.

The existing sanitary sewer system is shown on Figure No. 2 in Appendix A.

3.4 WATER MAIN

Water main is present throughout the project area. A report evaluating the condition of the underground utilities was previously submitted to the Lewiston City Council for their review. That report is included in Appendix D of this report. The report indicates the water main throughout the project area has exceeded its life expectancy and is need of reconstruction.

The existing water main system is shown on Figure No. 2 in Appendix A.

3.5 OTHER UTILITIES

Other non-municipal owned utilities are present in the right-of-way. These include natural gas and telecommunication.

Natural gas lines are present, generally running along the south side of First Street, Second Street and Country Club Drive and along the east side of Rice Street with services crossing the street. Electrical utilities within the project area consists of overhead and underground lines. There is also fiber optic communication lines present throughout the project area. The condition of these utilities are unknown.

4.0 PROPOSED IMPROVEMENTS

4.1 STREET

Rice Street will be reconstructed as a 34-foot wide bituminous street with concrete curb and gutter on both sides. Benike Street, First Street, Second Street and Country Club Drive will be reconstructed as a 32-foot wide bituminous street with concrete curb and gutter on both sides. Concrete sidewalks will be constructed on both sides of all the streets, per city policy. Concrete driveway aprons will be constructed from the back of the curb to the sidewalk. Where necessary the driveways maybe reconstructed beyond the sidewalk. In these locations the driveway will be reconstructed of the same type as the remaining existing driveway.

All streets will be constructed with 4—inches of bituminous pavement over 10-inches of aggregate base with a geotextile fabric. PVC subdrain will be constructed behind the curb

and gutter to facilitate subsurface drainage. A subdrain service will be constructed to each property that will allow future sump pump connection should the property need it.

Boulevards will be restored with topsoil and sod in all disturbed areas. Trees and or bushes located within the street right of way will be subject to removal depending on location of the underground utilities. There are only a few existing trees within the ROW. However, there may be a few trees on private property that could receive root damage due to their proximity to the existing utilities and their size. Options will be considered during final design to avoid tree disturbance.

The proposed street improvements are shown on Figure No. 3 in Appendix A.

The proposed typical street section is shown on Figure No. 4 in Appendix A.

4.2 STORM SEWER

The city's design standard for storm sewer is a 10-year design storm frequency, and the new storm sewer system will be constructed to adequately convey the 10-year event. New catch basin will be constructed at intervals necessary to adequately convey the surface runoff to the storm sewer pipe. Storm sewer manholes will be constructed at catch basin locations, changes in vertical or horizontal alignment. Storm sewer pipes ranging from 12-inch to 36-inch diameter will be constructed at appropriate locations throughout the project area.

The proposed storm sewer construction is shown on Figure No. 3 in Appendix A.

4.3 SANITARY SEWER

Based on the sanitary sewer televising completed in 2017, the sanitary sewer in within the project area is in very poor condition, therefore construction of a new sanitary sewer is recommended. The new sanitary sewer will be constructed of PVC pipe and precast concrete manholes in order to provide for a water tight system. Manholes will be spaced at a maximum of 400-feet intervals and at vertical and horizontal alignment changes to facilitate maintenance and cleaning. New sanitary sewer services will be constructed from the sewer main to the right of way line. The new services will be connected to the existing services by water tight means.

In addition to the sanitary sewer collection and service piping, the existing lift station located between First Street and Country Club Drive will be replaced. Replacement of the lift station will include construction of a new submersible pump lift station, valve

vault, pumps, controls, and forcemain pipe.

The proposed sanitary sewer construction is shown on Figure No. 3 in Appendix A.

4.4 WATER MAIN

Given the age, condition, and inadequate size of the existing water main within the project area, it is recommended that the existing cast iron water main be replaced with new polyvinyl chloride (PVC) water main. In order to provide proper fire protection, the current standard for minimum water main size is 8-inch diameter pipe. Hydrants will be installed at appropriate intervals and valves will be provided to properly isolate the system for flushing, repair, and maintenance.

New 1-inch copper water service pipe will be constructed to the right-of-way for each home, and new curb stops will be installed.

The proposed water main construction is shown on Figure No. 3 in Appendix A.

4.5 OTHER UTILITIES

The design of the proposed improvements will be coordinated with the owners of private utilities such as natural gas, telephone, cable television and electrical service. A design coordination meeting will be held with all utility companies to identify those utilities that are in conflict with the proposed improvements. Private utility companies will be requested to submit proposed designs and construction schedules for any relocation. The construction schedule for the proposed improvements will be coordinated with the utility relocation schedule to avoid unnecessary delays.

4.6 RIGHT-OF-WAY AND EASEMENTS

Although the project will be designed to limit construction of the proposed improvements to within the existing 50-foot right-of-way, it is inevitable that minor disturbances to private property will occur during construction of sidewalks, driveways and services. Therefore, temporary construction easements may be necessary along the project frontage to accommodate these minor disturbances.

5.0 APPROVALS AND PERMITS

Approvals and Permits are required from various agencies for the construction of the project. They include:

- Minnesota Pollution Control Agency (MPCA) General Construction Storm Water Permit
- Minnesota Department of Transportation (MnDOT) Work in the Right-of-Away Permit
- Minnesota Department of Health Water Main Construction Permit.

6.0 PROJECT COST ESTIMATE AND FINANCING

The estimated project costs are summarized below. A detailed cost estimate and breakdown is included in Exhibit No. 1 in Appendix B.

Estimated Project Costs

Project	Street	Location	Water	Sewer	Storm Sewer	Street	Total Project Cost
1	Rice Street	Main Street to TH 14	\$171,098.08	\$88,480.34	\$118,471.60	\$520,692.87	\$898,742.89
2	First Street	Fremont Street to Benike Street	\$168,671.31	\$129,152.98	\$58,758.02	\$428,958.58	\$785,540.90
3	First Street	Benike Street to Cul de Sac	\$183,911.57	\$137,249.15	\$146,808.19	\$510,098.51	\$978,067.42
4	Benike Street	Second Street to Dead End North	\$52,367.96	\$28,770.93	\$0.00	\$223,680.78	\$304,819.66
5	Second Street	Fremont Street to Benike Street	\$189,450.32	\$129,375.37	\$107,216.89	\$454,685.28	\$880,727.86
6	County Club Drive	Benike Street to Cul de Sac	\$191,764.50	\$144,386.29	\$84,978.49	\$468,406.38	\$889,535.65
7	Lift Station	Between First Street and Country Club Drive		\$241,175.45			\$241,175.45
8	Water Main Loop	First Street to West Main Street	\$64,998.67			\$22,814.17	\$87,812.84
_	Total		\$1,022,262.42	\$898,590.50	\$516,233.18	\$2,629,336.57	\$5,066,422.67

These cost estimates are based on public construction cost information from other recent projects similar in scope. Since the cost estimates are dependent on the cost of labor, materials, competitive bidding process, weather conditions, and other factors affecting the cost of construction, all cost estimates are opinions for general information and no warranty or guarantee as to the accuracy of construction cost is made. Therefore, financing for this project should be based upon actual competitive bid prices with reasonable contingencies.

Funding for the proposed improvement is proposed to come from the sale of an improvement bond, to be repaid through special assessments, utility enterprise funds and ad valorem funds. According to the City's assessment policy, the proposed improvements are assessable to the benefitting properties as follows:

- Street Reconstruction, Sanitary Sewer and Water Main 20% Assessable, 80% City Cost
- Storm Sewer 0% Assessable, 100% City Cost

Costs are assessed on a front footage basis with adjustments made for corner, cul-de-sac, curved frontage, and irregular shaped lots.

According to Minnesota Statute 429, special assessments for improvement projects must not exceed the special benefit to the properties being assessed. Based on court cases, the special

benefit has been determined to be equivalent to the increase in property value as a result of the improvement. In addition, the statute states that projects financed through an improvement bond must assess at least 20% of the total project cost.

Should the City choose to proceed with the project, assessment proceedings (hearings, notices, etc.) for the project would follow the requirements of Minnesota Statute Chapter 429. It is also recommended that City staff seek input from the City's financial advisor related to project financing.

7.0 PROPOSED SCHEDULE

The schedule for the project is shown below. A more detailed project schedule is shown in Appendix ${\bf C}$

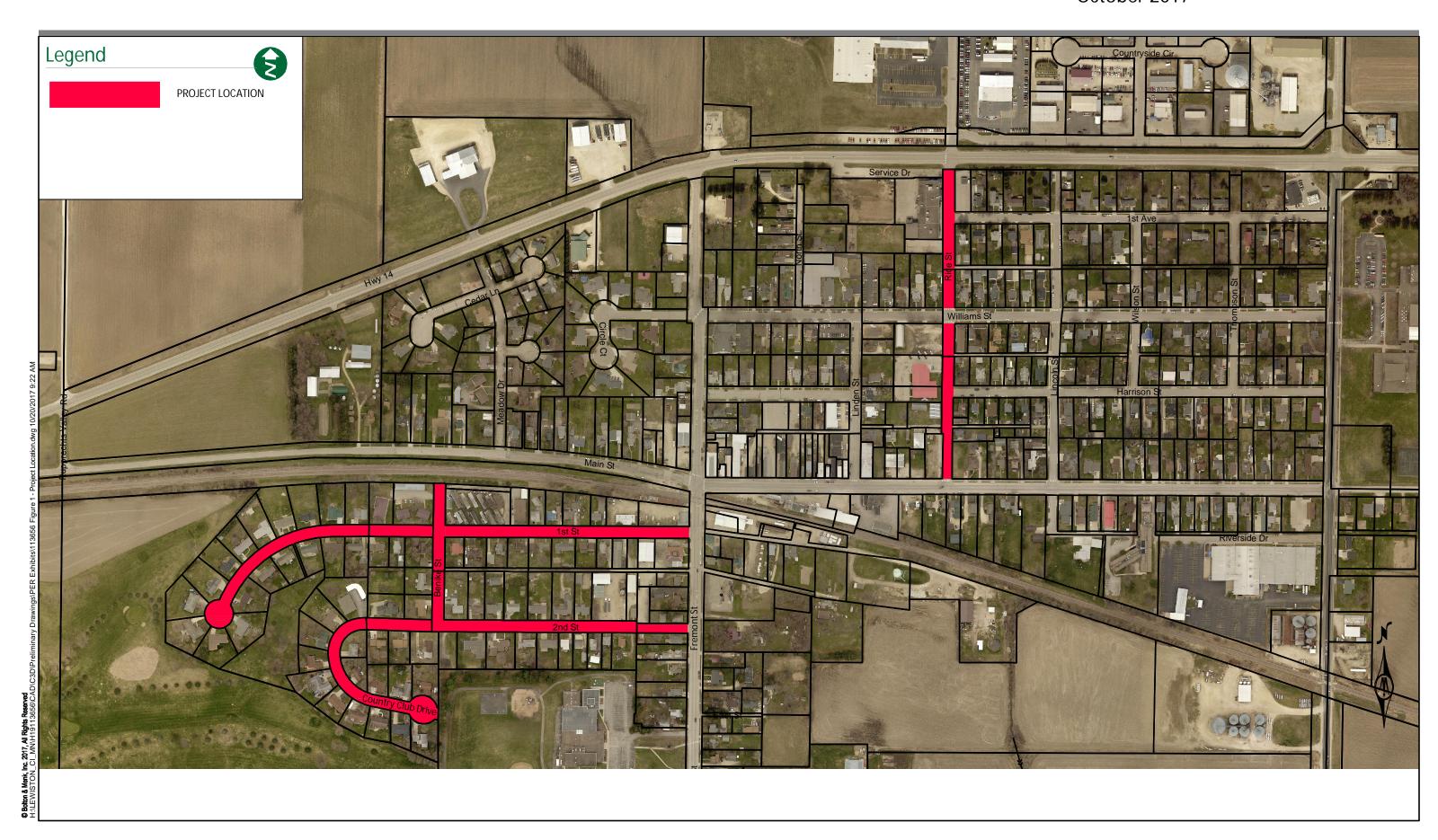
Preliminary Investigation	April 2017			
Kick Off Informational Meeting	May 2017			
Resolution Ordering Preparation of Report	5/24/17			
Prepare Feasibility Report	5/24/17 - 10/25/17			
Resolution Receiving Report and Calling for Hearing on Improvement	10/25/17			
Published Notice of Hearing on Improvement	10/26/17 and 11/2/17			
Mailed Notice of Hearing on Improvement	10/27/17			
Neighborhood Informational Meeting	11/2/17			
Improvement Hearing	11/8/17			
Resolution Ordering Improvement and Preparation of Plans and Specifications	11/8/17			
Prepare Plans and Specifications	11/8/2017 - 3/14/2018			
Resolution Approving Plans and Specifications and Ordering Advertisement for Bids	3/14/18			
	3/15/18			
Advertise for Bids	3/22/18			
	3/29/18			
Open Bids	4/5/18			
Resolution Awarding Contract	4/28/18			
Neighborhood Informational Meeting	April 2018			
Begin Construction	May 2018			
End Construction	June 2019			
Prepare Assessment Roll	September 2019			
Resolution Declaring Cost to Be Assessed and Ordering Preparation of Proposed Assessment	September 2019			
Resolution for Hearing on Proposed Assessment	September 2019			
Published Notice of Hearing on Proposed Assessment	September 2019			
Mailed Notice of Hearing on Proposed Assessment	September 2019			
Neighborhood Informational Meeting	September 2019			
Assessment Hearing	October 2019			
	0.1.1			
Resolution Adopting Assessment	October 2019			

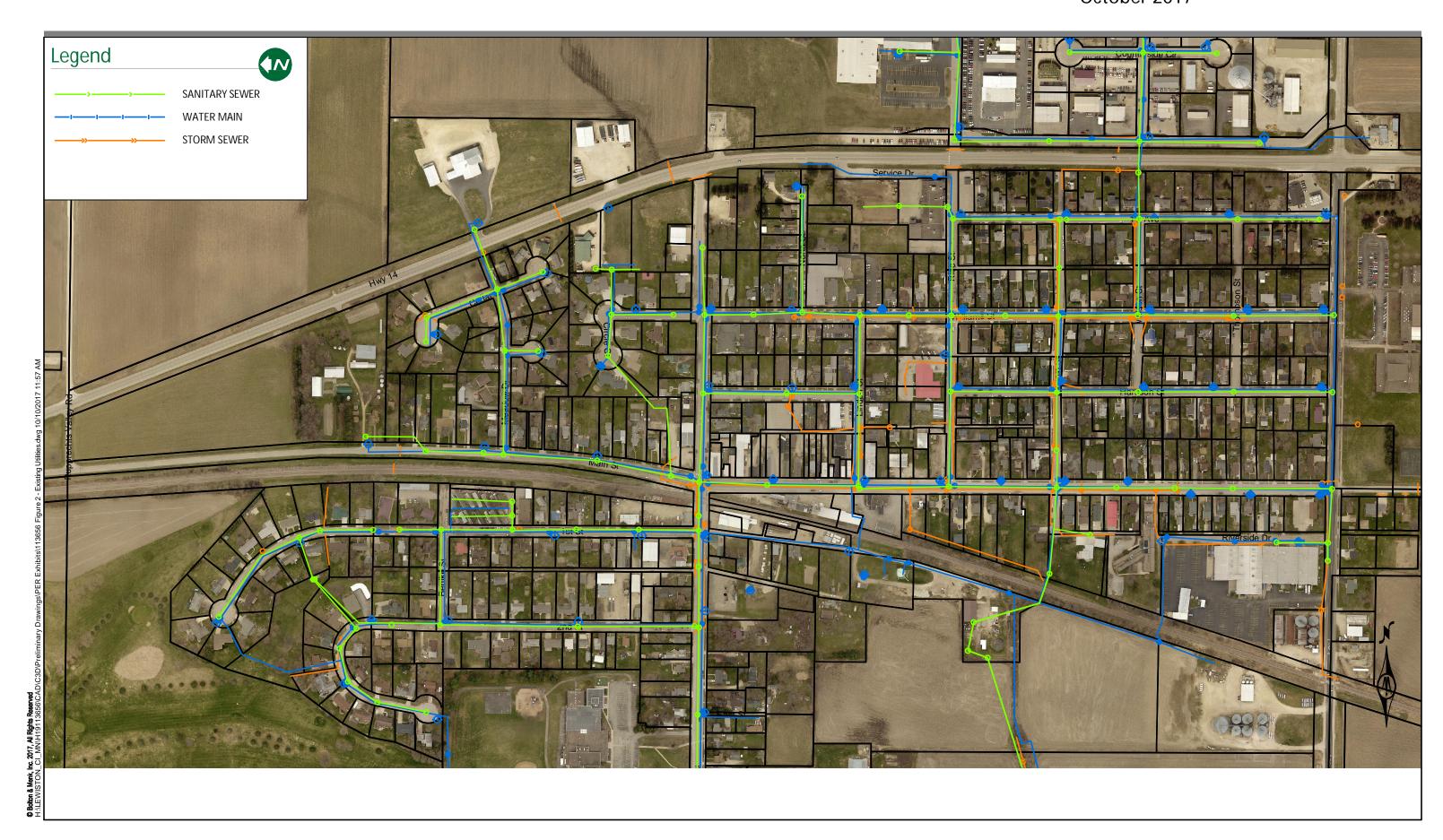
8.0 CONCLUSION AND RECOMMENDATIONS

The existing streets and utilities within the project area are deteriorated and in need of repair. If the infrastructure is not replaced, maintenance costs will continue to rise as further deterioration occurs, and the infrastructure will ultimately fail. From an engineering standpoint, this project is feasible, cost effective, necessary, and can best be accomplished by letting competitive bids for the work. Feasibility is contingent upon City Council findings with respect to project financing.

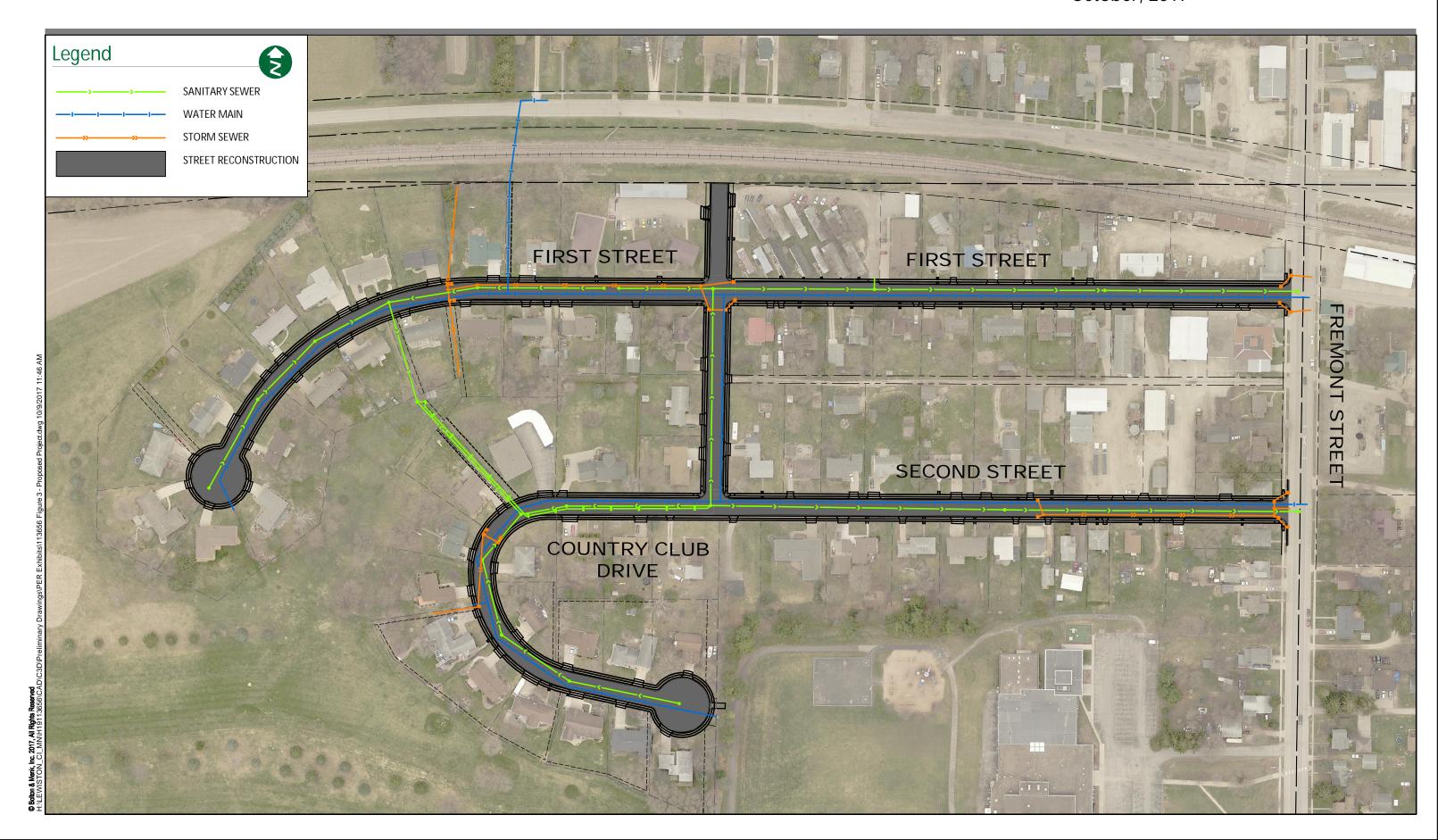
If the Council wishes to proceed with the project in any form, we recommend that the Council accept this report, call for a hearing on the proposed improvements, and consider scheduling a neighborhood meeting to solicit further public input on this project.

Appendix A: Figures





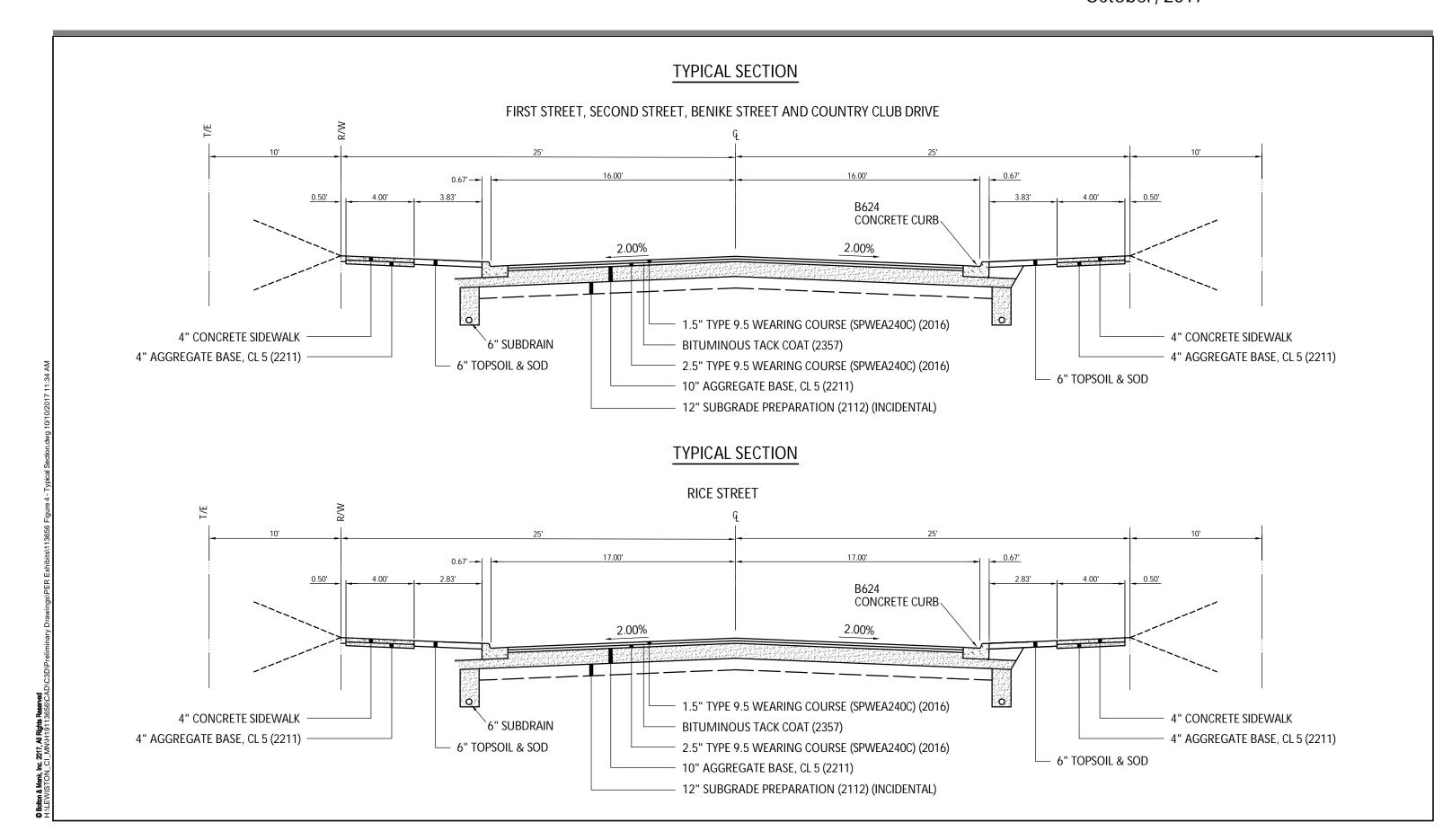












Appendix B: Exhibits

Preliminary Cost Estimate Rice Street - TH 14 to Main Street Lewiston, Minnesota

STREET IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00	1.0	\$25,000.00
2	2101.502	CLEARING	EACH	\$300.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$250.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	2,101.0	\$6,828.25
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25	330.0	\$1,402.50
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	4,490.0	\$15,715.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	145.8	\$1,056.89
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25	443.0	\$2,325.75
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	120.0	\$510.00
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	654.0	\$1,962.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00	1,800.0	\$21,600.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00	450.0	\$5,400.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00	0.0	\$0.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	450.0	\$15,750.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00	5,386.0	\$10,772.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00	1,640.0	\$45,920.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00	335.0	\$15,075.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25	175.0	\$393.75
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00	4,375.0	\$35,000.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00	4,375.0	\$43,750.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	85.0	\$4,250.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	295.0	\$16,225.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00	2,415.0	\$36,225.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00	6.0	\$1,500.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	2,110.0	\$11,605.00
	•					
		TOTAL ESTIMATED STREET IMPROVEMENTS				\$324,766.14

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	8,250.0	\$8,250.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	8,250.0	\$33,000.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50	420.0	\$3,570.00
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00	112.0	\$5,040.00
		TOTAL ESTIMATED SIDEWALK IMPROVEMENTS			•	\$49,860.00

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00	692	\$6,920.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00	0	\$0.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00	4	\$1,600.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	2,415.0	\$28,980.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	6.0	\$1,320.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00	135.0	\$4,995.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00	158.0	\$6,320.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00	392.0	\$17,640.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00	11.0	\$550.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00	9.0	\$4,950.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0.0	\$0.00
42	2511.501	RIPRAP	CY	\$80.00	0.0	\$0.00
43	2501.515	24" RC PIPE APRON	EACH	\$700.00	0.0	\$0.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00	24.0	\$6,600.00

Rice Street - TH 14 to Main Street

Lewiston, Minnesota

 $H: LEWISTON_CI_MN\ H19113656\ 2_Preliminary\ A_Calculations\ ([113656\ 2018\ Street\ Improvement\ Project\ PCE\ .xlsx] Rice\ Street\ PCE\ .xlsx]$

8/30/2017

45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	19.5	\$5,362.50
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00		\$0.00
	TOTAL ESTIMATED STORM SEWER IMPROVEMENTS					\$85,237.50

SANITARY SEWER IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	3	\$1,200.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	845	\$2,957.50
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	100	\$4,500.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	4	\$2,800.00
53	2503.603	8" PIPE SEWER	LIN FT	\$38.00	1,079	\$41,002.00
54	2506.516	CASTING ASSEMBLY	EACH	\$550.00	4	\$2,200.00
55	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0	\$0.00
56	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	36	\$9,000.00
	TO	TAL ESTIMATED SANITARY SEWER IMPROVEMENTS	•			\$63,659.50

WATER MAIN IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
57	2104.509	REMOVE HYDRANT	EACH	\$325.00	1	\$325.00
58	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	1,287	\$6,435.00
59	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	1	\$6,500.00
60	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
61	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	6	\$6,600.00
62	2504.602	1" CORPORATION STOP	EACH	\$225.00	4	\$900.00
63	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	4	\$2,000.00
64	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	140	\$6,300.00
65	2504.602	HYDRANT	EACH	\$3,800.00	3	\$11,400.00
66	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	3	\$4,500.00
67	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	7	\$12,600.00
68	2504.603	6" WATER MAIN	LIN FT	\$42.00	58	\$2,436.00
69	2504.603	8" WATER MAIN	LIN FT	\$45.00	1,290	\$58,050.00
70	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	674	\$5,055.00
		TOTAL ESTIMATED WATER MAIN IMPROVEMENTS				\$123,101.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$646,624.14
CONSTRUCTION CONTINGENCY	\$84,061.14
TOTAL ESTIMATED CONSTRUCTION COSTS	\$730,685.28
DESIGN AND CONSTRUCTION ENGINEERING	\$131,523.35
ADMINISTRATION AND LEGAL	\$36,534.26
TOTAL ESTIMATED PROJECT COSTS	\$898,742.89

Preliminary Cost Estimate First Street - Fremont Street to Benike Street

Lewiston, Minnesota

STREET IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1		MOBILIZATION	LUMP SUM	\$25,000.00	1.0	\$25,000.00
2		CLEARING	EACH	\$300.00		\$0.00
3	2101.507	GRUBBING	EACH	\$250.00		\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	2,078.0	\$6,753.50
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25		\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	3,385.0	\$11,847.50
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	634.0	\$4,596.50
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25	34.0	\$178.50
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	98.0	\$416.50
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	426.0	\$1,278.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00	1,425.0	\$17,100.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00	350.0	\$4,200.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00		\$0.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	350.0	\$12,250.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00	4,460.0	\$8,920.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00	1,250.0	\$35,000.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00	50.0	\$2,250.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25	240.0	\$540.00
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 1.5" THICK	SQ YD	\$8.00	3,370.0	\$26,960.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00	3,370.0	\$33,700.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	255.0	\$12,750.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	125.0	\$6,875.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00	2,090.0	\$31,350.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00	6.0	\$1,500.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	3,700.0	\$20,350.00
		TOTAL ESTIMATED STREET IMPROVEMENTS				\$270,315.50

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	6,500.0	\$6,500.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	7,100.0	\$28,400.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50	110.0	\$935.00
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00	55.0	\$2,475.00
		TOTAL ESTIMATED SIDEWALK IMPROVEMENTS				\$38,310.00

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00	96	\$960.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00	1	\$400.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00	2	\$800.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	2,070.0	\$24,840.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	16.0	\$3,520.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00	55.0	\$2,035.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00	78.0	\$3,120.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00		\$0.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00		\$0.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00	4.0	\$2,200.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00		\$0.00
42	2511.501	RIPRAP	CY	\$80.00		\$0.00
43	2501.515	24" RC PIPE APRON	EACH	\$700.00		\$0.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00	16.0	\$4,400.00

First Street - Fremont Street to Benike Street

Lewiston, Minnesota

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45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	\$0.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00	\$0.00
	,	TOTAL ESTIMATED STORM SEWER IMPROVEMENTS			\$42,275.00

SANITARY SEWER IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	5	\$2,000.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	1,685	\$5,897.50
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	640	\$28,800.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	3	\$2,100.00
53	2503.603	8" PIPE SEWER	LIN FT	\$38.00	1,045	\$39,710.00
54	2506.516	CASTING ASSEMBLY	EACH	\$550.00	3	\$1,650.00
55	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	3	\$1,515.00
56	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	45	\$11,250.00
	TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS					\$92,922.50

WATER MAIN IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
57	2104.509	REMOVE HYDRANT	EACH	\$325.00	2	\$650.00
58	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	1,070	\$5,350.00
59	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	1	\$6,500.00
60	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
61	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	3	\$3,300.00
62	2504.602	1" CORPORATION STOP	EACH	\$225.00	16	\$3,600.00
63	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	16	\$8,000.00
64	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	480	\$21,600.00
65	2504.602	HYDRANT	EACH	\$3,800.00	2	\$7,600.00
66	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	2	\$3,000.00
67	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	4	\$7,200.00
68	2504.603	6" WATER MAIN	LIN FT	\$42.00	40	\$1,680.00
69	2504.603	8" WATER MAIN	LIN FT	\$45.00	1,075	\$48,375.00
70	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	600	\$4,500.00
	TOTAL ESTIMATED WATER MAIN IMPROVEMENTS					\$121,355.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$565,178.00
CONSTRUCTION CONTINGENCY	\$73,473.14
TOTAL ESTIMATED CONSTRUCTION COSTS	\$638,651.14
DESIGN AND CONSTRUCTION ENGINEERING	\$114,957.21
ADMINISTRATION AND LEGAL	<u>\$31,932.56</u>
TOTAL ESTIMATED PROJECT COSTS	\$785,540.90

Preliminary Cost Estimate First Street - Cul de Sac to Benike Street Lewiston, Minnesota

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STREET IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00	1.0	\$25,000.00
2	2101.502	CLEARING	EACH	\$300.00	3.0	\$900.00
3	2101.507	GRUBBING	EACH	\$250.00	3.0	\$750.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	2,350.0	\$7,637.50
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25		\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	4,200.0	\$14,700.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	535.0	\$3,878.7
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25		\$0.00
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	360.0	\$1,530.00
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	125.0	\$375.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00	1,750.0	\$21,000.0
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00	445.0	\$5,340.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00		\$0.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	445.0	\$15,575.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00	5,250.0	\$10,500.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00	1,640.0	\$45,920.0
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00	100.0	\$4,500.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25	300.0	\$675.00
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00	4,240.0	\$33,920.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00	4,240.0	\$42,400.0
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	615.0	\$30,750.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00	2,355.0	\$35,325.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.0
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00	4.0	\$1,000.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	4,500.0	\$24,750.00
<u> </u>	TOTAL ESTIMATED STREET IMPROVEMENTS					\$332,926.2

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	1,420.0	\$1,420.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	7,560.0	\$30,240.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50	115.0	\$977.50
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00	32.0	\$1,440.00
		TOTAL ESTIMATED SIDEWALK IMPROVEMENTS				\$34,077.50

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00	355	\$3,550.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00	0	\$0.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00	3	\$1,200.00
34	2105.501	COMMON EXCAVATION, WATERWAY	CU YD	\$15.00	300.0	\$4,500.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	2,355.0	\$28,260.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	24.0	\$5,280.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00	115.0	\$4,255.00
38	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00	512.0	\$20,480.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00	355.0	\$17,750.00
41	2506.516	CASTING ASSEMBLY	EACH	\$550.00	11.0	\$6,050.00
42	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0.0	\$0.00
43	2511.501	RIPRAP	CY	\$80.00	10.0	\$800.00
44	2501.515	24" RC PIPE APRON	EACH	\$700.00	2.0	\$1,400.00

First Street - Cul de Sac to Benike Street

Lewiston, Minnesota

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	TOTAL ESTIMATED STORM SEWER IMPROVEMENTS					\$105,625.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00	5.5	\$2,200.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	20.0	\$5,500.00
45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00	16.0	\$4,400.00

SANITARY SEWER IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
49	2104.509	REMOVE MANHOLE	EACH	\$400.00	6	\$2,400.00
50	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	1,665	\$5,827.50
51	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
52	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	650	\$29,250.00
53	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	2	\$1,400.00
54	2503.603	8" PIPE SEWER	LIN FT	\$38.00	1,015	\$38,570.00
55	2506.516	CASTING ASSEMBLY	EACH	\$550.00	6	\$3,300.00
56	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0	\$0.00
57	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	72	\$18,000.00
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	TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS					\$98,747.50

WATER MAIN IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
58	2104.509	REMOVE HYDRANT	EACH	\$325.00	2	\$650.00
59	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	1,300	\$6,500.00
60	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	1	\$6,500.00
61	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
62	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	4	\$4,400.00
63	2504.602	1" CORPORATION STOP	EACH	\$225.00	24	\$5,400.00
64	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	24	\$12,000.00
65	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	65	\$2,925.00
66	2504.602	HYDRANT	EACH	\$3,800.00	3	\$11,400.00
67	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	3	\$4,500.00
68	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	5	\$9,000.00
69	2504.603	6" WATER MAIN	LIN FT	\$42.00	60	\$2,520.00
70	2504.603	8" WATER MAIN	LIN FT	\$45.00	1,345	\$60,525.00
71	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	800	\$6,000.00
		TOTAL ESTIMATED WATER MAIN IMPROVEMENTS				\$132,320.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$703,696.25
CONSTRUCTION CONTINGENCY	\$91,480.51
TOTAL ESTIMATED CONSTRUCTION COSTS	\$795,176.76
DESIGN AND CONSTRUCTION ENGINEERING	\$143,131.82
ADMINISTRATION AND LEGAL	\$39,758.84
TOTAL ESTIMATED PROJECT COSTS	\$978,067.42

Preliminary Cost Estimate Benike Street - From Second Street to Dead End North Lewiston, Minnesota

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STREET IMPROVEMENTS

ITEM N	UMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00	1.0	\$25,000.00
2	2101.502	CLEARING	EACH	\$300.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$250.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	1,002.0	\$3,256.50
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25	0.0	\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	1,556.0	\$5,446.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	145.0	\$1,051.25
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25	112.0	\$588.00
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	125.0	\$531.25
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	115.0	\$345.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00	690.0	\$8,280.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00	170.0	\$2,040.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00	170.0	\$3,060.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	170.0	\$5,950.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00	2,070.0	\$4,140.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00	520.0	\$14,560.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00	30.0	\$1,350.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25	80.0	\$180.00
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00	1,575.0	\$12,600.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00	1,575.0	\$15,750.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	215.0	\$10,750.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00	1,005.0	\$15,075.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00	5.0	\$1,250.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	1,560.0	\$8,580.00
		TOTAL ESTIMATED STREET IMPROVEMENTS				\$146,283.00

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	2,170.0	\$2,170.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	3,120.0	\$12,480.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50	0.0	\$0.00
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00	0.0	\$0.00
		TOTAL ESTIMATED SIDEWALK IMPROVEMENTS				\$14,650.00

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00	0	\$0.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00	0	\$0.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00	0	\$0.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0	\$0.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0	\$0.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00	0	\$0.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00	0	\$0.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00	0	\$0.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00	0	\$0.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0	\$0.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0	\$0.00
42	2511.501	RIPRAP	CY	\$80.00	0	\$0.00
43	2501.515	24" RC PIPE APRON	EACH	\$700.00	0	\$0.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00	0	\$0.00

Benike Street - From Second Street to Dead End North

Lewiston, Minnesota

 $H: LEWISTON_CI_MN\ H19113656\ 2_Preliminary\ A_Calculations\ ([113656\ 2018\ Street\ Improvement\ Project\ PCE\ .xlsx] Rice\ Street\ PCE\ .xlsx] Rice\ Street\ PCE\ .xlsx] Rice\ PCE\ .xlsx$ Rice\ PCE\ .xlsx R

8/30/2017

		TOTAL ESTIMATED STORM SEWER IMPROVEMENTS				\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00	0	\$0.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0	\$0.00
45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	0	\$0.00

SANITARY SEWER IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	0	\$0.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	400	\$1,400.00
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	60	\$2,700.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	2	\$1,400.00
53	2503.603	8" PIPE SEWER	LIN FT	\$38.00	400	\$15,200.00
54	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0	\$0.00
55	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0	\$0.00
56	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	0	\$0.00
	TO	TAL ESTIMATED SANITARY SEWER IMPROVEMENTS				\$20,700.00

WATER MAIN IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
57	2104.509	REMOVE HYDRANT	EACH	\$325.00	0	\$0.00
58	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	380	\$1,900.00
59	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	0	\$0.00
60	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
61	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	2	\$2,200.00
62	2504.602	1" CORPORATION STOP	EACH	\$225.00	2	\$450.00
63	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	2	\$1,000.00
64	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	80	\$3,600.00
65	2504.602	HYDRANT	EACH	\$3,800.00	1	\$3,800.00
66	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	1	\$1,500.00
67	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	2	\$3,600.00
68	2504.603	6" WATER MAIN	LIN FT	\$42.00	20	\$840.00
69	2504.603	8" WATER MAIN	LIN FT	\$45.00	380	\$17,100.00
70	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	225	\$1,687.50
		TOTAL ESTIMATED WATER MAIN IMPROVEMENTS				\$37,677.50

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$219,310.50
CONSTRUCTION CONTINGENCY	\$28,510.37
TOTAL ESTIMATED CONSTRUCTION COSTS	\$247,820.87
DESIGN AND CONSTRUCTION ENGINEERING	\$44,607.76
ADMINISTRATION AND LEGAL	<u>\$12,391.04</u>
TOTAL ESTIMATED PROJECT COSTS	\$304,819.66

Second Street - From Fremont Steet to Benike Street

Lewiston, Minnesota

STREET IMPROVEMENTS

ITEM N	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00	1.0	\$25,000.00
2	2101.502	CLEARING	EACH	\$300.00		\$0.00
3	2101.507	GRUBBING	EACH	\$250.00		\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	2,090.0	\$6,792.50
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25		\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	3,410.0	\$11,935.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	475.0	\$3,443.75
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25	85.0	\$446.25
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	400.0	\$1,700.00
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	375.0	\$1,125.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00	1,481.0	\$17,772.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00	560.0	\$6,720.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00	560.0	\$10,080.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	300.0	\$10,500.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00	4,300.0	\$8,600.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00	1,120.0	\$31,360.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00	85.0	\$3,825.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25	205.0	\$461.25
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00	3,410.0	\$27,280.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00	3,410.0	\$34,100.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	505.0	\$25,250.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	45.0	\$2,475.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00	2,090.0	\$31,350.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00	6.0	\$1,500.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	3,600.0	\$19,800.00
		TOTAL ESTIMATED STREET IMPROVEMENTS		<u> </u>		\$288,015.75

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	6,497.0	\$6,497.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	7,005.0	\$28,020.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50	245.0	\$2,082.50
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00	56.0	\$2,520.00
		TOTAL ESTIMATED SIDEWALK IMPROVEMENTS				\$39,119.50

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00	590	\$5,900.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00	1	\$400.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00	4	\$1,600.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	2,080.0	\$24,960.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	21.0	\$4,620.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00	130.0	\$4,810.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00	425.0	\$17,000.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00	30.0	\$1,350.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00		\$0.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00	9.0	\$4,950.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00		\$0.00
42	2511.501	RIPRAP	CY	\$80.00		\$0.00
43	2501.515	24" RC PIPE APRON	EACH	\$700.00		\$0.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00	24.0	\$6,600.00

Second Street - From Fremont Steet to Benike Street

Lewiston, Minnesota

 $H: LEWISTON_CI_MN\ H19113656\ 2_Preliminary\ A_Calculations\ ([113656\ 2018\ Street\ Improvement\ Project\ PCE\ .xlsx] Rice\ Street\ PCE\ .xlsx] Rice\ Street\ PCE\ .xlsx] Rice\ PCE\ .xlsx$ Rice\ PCE\ .xlsx R

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45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	18.0	\$4,950.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00		\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00		\$0.00
	,	TOTAL ESTIMATED STORM SEWER IMPROVEMENTS				\$77,140.00

SANITARY SEWER IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	3	\$1,200.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	1,805	\$6,317.50
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00		\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	575	\$25,875.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	4	\$2,800.00
53	2503.603	8" PIPE SEWER	LIN FT	\$38.00	1,230	\$46,740.00
54	2506.516	CASTING ASSEMBLY	EACH	\$550.00	3	\$1,650.00
55	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00		\$0.00
56	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	34	\$8,500.00
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	TO	TAL ESTIMATED SANITARY SEWER IMPROVEMENTS				\$93,082.50

WATER MAIN IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
57	2104.509	REMOVE HYDRANT	EACH	\$325.00	2	\$650.00
58	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	1,230	\$6,150.00
59	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	1	\$6,500.00
60	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
61	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	5	\$5,500.00
62	2504.602	1" CORPORATION STOP	EACH	\$225.00	21	\$4,725.00
63	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	21	\$10,500.00
64	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	575	\$25,875.00
65	2504.602	HYDRANT	EACH	\$3,800.00	2	\$7,600.00
66	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	2	\$3,000.00
67	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	3	\$5,400.00
68	2504.603	6" WATER MAIN	LIN FT	\$42.00	40	\$1,680.00
69	2504.603	8" WATER MAIN	LIN FT	\$45.00	1,230	\$55,350.00
70	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	450	\$3,375.00
	TOTAL ESTIMATED WATER MAIN IMPROVEMENTS			•		\$136,305.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$633,662.75
CONSTRUCTION CONTINGENCY	\$82,376.16
TOTAL ESTIMATED CONSTRUCTION COSTS	\$716,038.91
DESIGN AND CONSTRUCTION ENGINEERING	\$128,887.00
ADMINISTRATION AND LEGAL	\$35,801.95
TOTAL ESTIMATED PROJECT COSTS	\$880,727.86

Preliminary Cost Estimate Country Club Drive - From Benike Street to Cul de Sac Lewiston, Minnesota

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STREET IMPROVEMENTS

ITEM N	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00	1.0	\$25,000.00
2	2101.502	CLEARING	EACH	\$300.00		\$0.00
3	2101.507	GRUBBING	EACH	\$250.00		\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	2,155.0	\$7,003.75
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25	0.0	\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	3,800.0	\$13,300.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	535.0	\$3,878.75
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25	65.0	\$341.25
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	120.0	\$510.00
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	400.0	\$1,200.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00	1,560.0	\$18,720.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00	600.0	\$7,200.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00	600.0	\$10,800.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	400.0	\$14,000.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00	4,680.0	\$9,360.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00	1,230.0	\$34,440.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00	65.0	\$2,925.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25	190.0	\$427.50
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00	3,800.0	\$30,400.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00	3,800.0	\$38,000.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	545.0	\$27,250.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00	2,155.0	\$32,325.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00	6.0	\$1,500.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	3,700.0	\$20,350.00
		TOTAL ESTIMATED STREET IMADDOVENACHTS				¢205 424 25
		TOTAL ESTIMATED STREET IMPROVEMENTS				\$305,431.25

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	646.0	\$646.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	7,030.0	\$28,120.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50	140.0	\$1,190.00
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00	36.0	\$1,620.00
	TOTAL ESTIMATED SIDEWALK IMPROVEMENTS					\$31,576.00

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00	225	\$2,250.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00	1	\$400.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00	2	\$800.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	2,150.0	\$25,800.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	21.0	\$4,620.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00	20.0	\$740.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00	32.0	\$1,280.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00	320.0	\$14,400.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00	0.0	\$0.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00	5.0	\$2,750.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0.0	\$0.00
42	2511.501	RIPRAP	CY	\$80.00	10.0	\$800.00
43	2501.515	18" RC PIPE APRON	EACH	\$700.00	1.0	\$700.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00	12.0	\$3,300.00

Country Club Drive - From Benike Street to Cul de Sac

Lewiston, Minnesota

 $H: LEWISTON_CI_MN \\ H 19113656 \\ \\ 2_Preliminary \\ \\ A_Calculations \\ \\ [113656\ 2018\ Street\ Improvement\ Project\ PCE\ .xlsx] \\ Rice\ Street\ Improvement\ Project\ PCE\ .xlsx \\ Rice\ Rice\ PCE\ .xlsx \\ Rice\ PCE\ .xlsx$

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45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	12.0	\$3,300.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$61,140.00

SANITARY SEWER IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	6	\$2,400.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	865	\$3,027.50
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	550	\$24,750.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	3	\$2,100.00
53	2504.603	6" FORCEMAIN PIPE SEWER	LIN FT	\$45.00	365	\$16,425.00
54	2503.603	8" PIPE SEWER	LIN FT	\$38.00	1,010	\$38,380.00
55	2506.516	CASTING ASSEMBLY	EACH	\$550.00	6	\$3,300.00
56	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0	\$0.00
57	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	54	\$13,500.00
						•
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$103,882.50

WATER MAIN IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
58	2104.509	REMOVE HYDRANT	EACH	\$325.00	3	\$975.00
59	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	1,130	\$5,650.00
60	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	1	\$6,500.00
61	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
62	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	3	\$3,300.00
63	2504.602	1" CORPORATION STOP	EACH	\$225.00	21	\$4,725.00
64	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	21	\$10,500.00
65	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	575	\$25,875.00
66	2504.602	HYDRANT	EACH	\$3,800.00	3	\$11,400.00
67	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	3	\$4,500.00
68	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	3	\$5,400.00
69	2504.603	6" WATER MAIN	LIN FT	\$42.00	60	\$2,520.00
70	2504.603	8" WATER MAIN	LIN FT	\$45.00	1,100	\$49,500.00
71	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	950	\$7,125.00
		TOTAL ESTIMATED WATER MAIN IMPROVEMENTS				\$137,970.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL \$639,999.75
CONSTRUCTION CONTINGENCY \$83,199.97
TOTAL ESTIMATED CONSTRUCTION COSTS \$723,199.72
DESIGN AND CONSTRUCTION ENGINEERING \$130,175.95
ADMINISTRATION AND LEGAL \$36,159.99
TOTAL ESTIMATED PROJECT COSTS \$889,535.65

Preliminary Cost Estimate Lift Station & Force Main Lewiston, Minnesota

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STREET IMPROVEMENTS

ITEM N	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00		\$0.00
2	2101.502	CLEARING	EACH	\$300.00	3.0	\$900.00
3	2101.507	GRUBBING	EACH	\$250.00	3.0	\$750.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25		\$0.00
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25		\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50		\$0.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25		\$0.00
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25		\$0.00
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25		\$0.00
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00		\$0.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00		\$0.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00		\$0.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00		\$0.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00		\$0.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00		\$0.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00		\$0.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00		\$0.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25		\$0.00
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00		\$0.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00		\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00		\$0.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00		\$0.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$15.00		\$0.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00		\$0.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00		\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	3,600.0	\$19,800.00
		TOTAL ESTIMATED STREET IMPROVEMENTS				\$21,450.00

SIDEWALK IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00		\$0.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00		\$0.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50		\$0.00
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00		\$0.00
	•	TOTAL ESTIMATED SIDEWALK IMPROVEMENTS				\$0.00

STORM SEWER IMPROVEMENTS

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ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
31	2104.501	REMOVE STORM SEWER PIPE	LF	\$10.00		\$0.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00		\$0.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00		\$0.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00		\$0.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00		\$0.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00		\$0.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00		\$0.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00		\$0.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00		\$0.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00		\$0.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00		\$0.00
42	2511.501	RIPRAP	CY	\$80.00		\$0.00
43	2501.515	24" RC PIPE APRON	EACH	\$700.00		\$0.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00		\$0.00
45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00		\$0.00

Preliminary Cost Estimate Lift Station & Force Main Lewiston, Minnesota

 $H: LEWISTON_CI_MN\\ H19113656\\ 2_Preliminary\\ A_Calculations\\ 113656\\ 2018\\ Street\\ Improvement\\ Project\\ PCE.\\ xlsx\\ Rice\\ Street\\ Rice\\ Street\\ Rice\\ Rice\\ Street\\ Rice\\ Rice\\ Street\\ Rice\\ Street\\ Rice\\ Rice\\$

8/30/2017

46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00	\$0.00
		TOTAL ESTIMATED STORM SEWER IMPROVEMENTS			\$0.00

SANITARY SEWER IMPROVEMENTS

ITEM I	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	1	\$400.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	500	\$1,750.00
50	2105.501	REMOVE SANITARY FORCEMAIN PIPE	LIN FT	\$4.50	260	\$1,170.00
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00		\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00		\$0.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00		\$0.00
53	2503.603	8" PIPE SEWER	LIN FT	\$38.00	500	\$19,000.00
54	2504.603	6" FORCEMAIN PIPE SEWER	LIN FT	\$45.00	260	\$11,700.00
54	2506.516	CASTING ASSEMBLY	EACH	\$550.00	1	\$550.00
55	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00		\$0.00
55	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	10	\$2,500.00
56	2506.603	SANITARY LIFT STATION	LUMP SUM	\$115,000.00	1	\$115,000.00
	TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS					\$152,070.00

WATER MAIN IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
57	2104.509	REMOVE HYDRANT	EACH	\$325.00		\$0.00
58	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00		\$0.00
59	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00		\$0.00
60	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00		\$0.00
61	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00		\$0.00
62	2504.602	1" CORPORATION STOP	EACH	\$225.00		\$0.00
63	2504.602	1" CURB STOP AND BOX	EACH	\$500.00		\$0.00
64	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00		\$0.00
65	2504.602	HYDRANT	EACH	\$3,800.00		\$0.00
66	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00		\$0.00
67	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00		\$0.00
68	2504.603	6" WATER MAIN	LIN FT	\$42.00		\$0.00
69	2504.603	8" WATER MAIN	LIN FT	\$45.00		\$0.00
70	2504.608	WATER MAIN FITTINGS	POUND	\$7.50		\$0.00
	TOTAL ESTIMATED WATER MAIN IMPROVEMENTS				•	\$0.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL \$173,520.00
CONSTRUCTION CONTINGENCY \$22,557.60
TOTAL ESTIMATED CONSTRUCTION COSTS \$196,077.60
DESIGN AND CONSTRUCTION ENGINEERING \$35,293.97
ADMINISTRATION AND LEGAL \$9,803.88
TOTAL ESTIMATED PROJECT COSTS \$241,175.45

Preliminary Cost Estimate Water Main Loop Lewiston, Minnesota

 $H: LEWISTON_CI_MN\ H19113656\ 2_Preliminary\ A_Calculations\ 113656\ 2018\ Street\ Improvement\ Project\ PCE\ .xlsx\ Pice\ Street\ 8/30/2017$

STREET IMPROVEMENTS

ITEM N	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION	LUMP SUM	\$25,000.00		\$0.00
2	2101.502	CLEARING	EACH	\$300.00		\$0.00
3	2101.507	GRUBBING	EACH	\$250.00		\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.25	40.0	\$130.00
5	2104.501	REMOVE PAN GUTTER	LIN FT	\$4.25		\$0.00
6	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$3.50	110.0	\$385.00
7	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$7.25	28.0	\$203.00
8	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$5.25		\$0.00
9	2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$4.25	5.0	\$21.25
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00		\$0.00
11	2105.501	COMMON EXCAVATION	CU YD	\$12.00		\$0.00
12	2105.507	SUBGRADE EXCAVATION	CU YD	\$12.00		\$0.00
13	2105.522	SELECT GRANULAR BORROW (CV) (12")	CU YD	\$18.00		\$0.00
14	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00		\$0.00
15	2105.604	GEOTEXTILE FABRIC TYPE V	SQ YD	\$2.00		\$0.00
16	2211.501	AGGREGATE BASE CLASS 5 (10")	CU YD	\$28.00		\$0.00
17	2211.501	AGGREGATE SURFACING, DRWY RESTORATION	CU YD	\$55.00	7.0	\$385.00
17	2231.604	BITUMINOUS PATCH (DRIVEWAYS)	SQ YD	\$45.00		\$0.00
18	2360.501	BITUMINOUS PATCH STREET, 10" AGG/4" BIT	SQ YD	\$45.00	110.0	\$4,950.00
18	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.25		\$0.00
19	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2" THICK	SQ YD	\$8.00		\$0.00
20	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B) 2.5" THICK	SQ YD	\$10.00		\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$50.00	28.0	\$1,400.00
22	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00		\$0.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B624, HAND PLACED	LIN FT	\$25.00	40.0	\$1,000.00
24	2563.601	TRAFFIC CONTROL	LUMP SUM	\$6,500.00	1.0	\$6,500.00
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$250.00		\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$5.50	200.0	\$1,100.00
		TOTAL ESTIMATED STREET IMPROVEMENTS				\$16,074.25

SIDEWALK IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
27	2104.503	REMOVE CONCRETE WALK	SQ FT	\$1.00	85.0	\$85.00
28	2521.501	4" CONCRETE WALK	SQ FT	\$4.00	85.0	\$340.00
29	2521.501	6" CONCRETE WALK	SQ FT	\$8.50		\$0.00
30	2531.618	TRUNCATED DOMES	SQ FT	\$45.00		\$0.00
	TOTAL ESTIMATED SIDEWALK IMPROVEMENTS					\$340.00

STORM SEWER IMPROVEMENTS

			Ī			
ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
			LF		-1-	
31		REMOVE STORM SEWER PIPE	LF	\$10.00		\$0.00
32	2104.509	REMOVE MANHOLE	EACH	\$400.00		\$0.00
33	5104.509	REMOVE CATCH BASIN	EACH	\$400.00		\$0.00
34	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00		\$0.00
35	2502.573	SUMP PUMP SERVICE	EACH	\$220.00		\$0.00
36	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$37.00		\$0.00
37	2503.511	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$40.00		\$0.00
38	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$45.00		\$0.00
39	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$50.00		\$0.00
40	2506.516	CASTING ASSEMBLY	EACH	\$550.00		\$0.00
41	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00		\$0.00
42	2511.501	RIPRAP	CY	\$80.00		\$0.00
43	2501.515	24" RC PIPE APRON	EACH	\$700.00		\$0.00
44	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$275.00		\$0.00

Preliminary Cost Estimate Water Main Loop Lewiston, Minnesota

 $H: LEWISTON_CI_MN \\ H19113656 \\ 2_Preliminary \\ A_Calculations \\ [113656\ 2018\ Street\ Improvement\ Project\ PCE\ .xlsx] \\ Rice\ Street\ Improvement\ Project\ PCE\ .xlsx \\ Rice\ PCE\ .x$

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		TOTAL ESTIMATED STORM SEWER IMPROVEMENTS			\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$400.00	\$0.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	\$0.00
45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$275.00	\$0.00

SANITARY SEWER IMPROVEMENTS

ITEM	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
48	2104.509	REMOVE MANHOLE	EACH	\$400.00	0	\$0.00
49	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.50	0	\$0.00
50	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
51	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
52	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$700.00	0	\$0.00
53	2503.603	8" PIPE SEWER	LIN FT	\$38.00	0	\$0.00
54	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0	\$0.00
55	2506.522	ADJUST FRAME & RING CASTING	EACH	\$505.00	0	\$0.00
56	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$250.00	0	\$0.00
	•					
	TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS					\$0.00

WATER MAIN IMPROVEMENTS

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	NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
57	2104.509	REMOVE HYDRANT	EACH	\$325.00		\$325.00
58	2104.501	REMOVE WATER MAIIN	LIN FT	\$5.00	25	\$125.00
59	2504.601	TEMPORARY WATER SYSTEM	LUMP SUM	\$6,500.00	0	\$0.00
60	2451.607	ROCK EXCAVATION IN TRENCH	CU YD	\$50.00	0	\$0.00
61	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,100.00	2	\$2,200.00
62	2504.602	1" CORPORATION STOP	EACH	\$225.00	0	\$0.00
63	2504.602	1" CURB STOP AND BOX	EACH	\$500.00	0	\$0.00
64	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$45.00	0	\$0.00
65	2504.602	HYDRANT	EACH	\$3,800.00	1	\$3,800.00
65	2504.602	4" GATE VALVE AND BOX	EACH	\$1,200.00	1	\$1,200.00
66	2504.602	6" GATE VALVE AND BOX	EACH	\$1,500.00	1	\$1,500.00
67	2504.602	8" GATE VALVE AND BOX	EACH	\$1,800.00	0	\$0.00
68	2504.603	6" WATER MAIN, OPEN TRENCH	LIN FT	\$42.00	20	\$840.00
68	2504.603	8" WATER MAIN, OPEN TRENCH	LIN FT	\$45.00	60	\$2,700.00
69	2504.603	8" WATER MAIN, TRENCHLESS	LIN FT	\$55.00	215	\$11,825.00
69	2504.603	14" WATER MAIN CASING PIPE, TRENCHLESS	LIN FT	\$200.00	100	\$20,000.00
70	2504.608	WATER MAIN FITTINGS	POUND	\$7.50	300	\$2,250.00
		TOTAL ESTIMATED WATER MAIN IMPROVEMENTS				\$46,765.00

SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$63,179.25
CONSTRUCTION CONTINGENCY	\$8,213.30
TOTAL ESTIMATED CONSTRUCTION COSTS	\$71,392.55
DESIGN AND CONSTRUCTION ENGINEERING	\$12,850.66
ADMINISTRATION AND LEGAL	<u>\$3,569.63</u>
TOTAL ESTIMATED PROJECT COSTS	\$87,812.84

								10/16/17		
Parcel ID	Owner	Property Address	Owner Address	Multiple Frontages	Project Footage	Assessable Footage	Assessment Rate	Assessment Amount		
			143 JAY BEE DR	Х	253	126.5	\$95.01	\$12,019.19		
250600260	SMALL REALTY LLC	300 SERVICE DR	WINONA, MN 55987			120.0	ψ33.01	ψ1 2 ,013.13		
250000200	SMALL REALTY LLC	135 DICE ST	143 JAY BEE DR		61	61	\$95.01	\$5,795.81		
250600300	SIVIALE REALITIES	125 RICE ST	WINONA, MN 55987 300 WILLIAMS ST							
250600310	DEBRA R TIES	300 WILLIAMS ST	LEWISTON, MN 55952	Х	225	112.5	\$95.01	\$10,689.00		
			PO BOX 129 LEWISTON,	.,			405.04	46.070.00		
250600380	LEWISTON CITY	RICE ST	MN 55952	Х	132	66	\$95.01	\$6,270.88		
			PO BOX 129 LEWISTON,		132	132	\$95.01	\$12,541.76		
250600390	LEWISTON CITY	75 RICE ST	MN 55952			132	755.01	Ψ12,5 11.7 O		
250000400	LEWISTON CITY	DIGE CT	PO BOX 129 LEWISTON,		66	66	\$95.01	\$6,270.88		
250600400	LEWISTON CITY	RICE ST	MN 55952 PO BOX 40							
250600410	LEWISTON AUTO CO INC	RICE ST	LEWISTON, MN 55952		106	106	\$95.01	\$10,071.42		
230000410	EEWISTON NOTO CO INC	Mice 31	58 JOHNSON ST							
250600430	HIAWATHA BROADBAND COMMUNICATIONS INC	RICE ST	WINONA, MN 55987		26	26	\$95.01	\$2,470.35		
			58 JOHNSON ST	Х	186	93	\$95.01	\$8,836.24		
250600450	HIAWATHA BROADBAND COMMUNICATIONS INC	300 MAIN ST E	WINONA, MN 55987	^	180	93	\$95.01	\$8,830.24		
			320 MAIN ST E LEWISTON,	х	158	79	\$95.01	\$7,506.05		
250700330	NILES LAVEY	320 MAIN ST E	MN 55952			, ,	ψ33.01	ψ,,500.05		
250700340	KARI LEE WEBB	20 RICE ST	20 RICE ST		55	55	\$95.01	\$5,225.73		
250700340	KARI LEE WEBB	20 RICE ST	PO BOX 2599							
250700311	UNITED TELEPHONE SYSTEM	RICE ST	OLATHE, KS 66063		31	31	\$95.01	\$2,945.41		
250700511			27001 STARLITE DR							
250700310	SHIRLEY A ROTT	305 HARRISON ST	WINONA, MN 55987	Х	82	41	\$95.01	\$3,895.55		
			310 HARRISON ST	Х	121	60.5	\$95.01	\$5,748.31		
250400010	NICHOLAS J SOVELL & CATALINA M SOVELL	310 HARRISON ST	LEWISTON, MN 55952	^	121	60.5	\$95.01	\$5,746.51		
			974 15TH ST E	x	125	62.5	\$95.01	\$5,938.33		
250950063	HOFF PROPERTIES LLC	90 RICE ST	ST. CHARLES, MN 55972							
250950010	BRENT E MATZKE & HEIDI L SCHULTZ	310 WILLIAMS ST	310 WILLIAMS ST LEWISTON, MN 55952	Х	160	80	\$95.01	\$7,601.07		
230930010	BRENT E MATZRE & HEIDTE SCHOLIZ	310 WILLIAWS 31	120 RICE ST							
250800060	WESLEY PIERCE	120 RICE ST	LEWISTON, MN 55952	Х	168	84	\$95.01	\$7,981.12		
			143 JAY BEE DR	,,	477	00.5	¢05.04	¢0.400.60		
250800010	SMALL REALTY LLC	190 RICE ST	WINONA, MN 55987	Х	177	88.5	\$95.01	\$8,408.68		
			385 FIRST AVE N, PO BOX 184	Х	211	105.5	\$95.01	\$10,023.91		
250600740	KANZ BROS	5 FREMONT ST S	LEWISTON, MN 55952	, n		103.3	733.01	Ç10,023.31		
250000750	WANT DOOS	ACT CT CIV	385 FIRST AVE N, PO BOX 184		135	135	\$95.01	\$12,826.80		
250600750	KANZ BROS	1ST ST SW	LEWISTON, MN 55952 60 1ST ST SW				-			
250600760	DONALD J KLUG & JUDITH E KLUG	60 1ST ST SW	LEWISTON, MN 55952		65	65	\$95.01	\$6,175.87		
230000700	DONALD I KLOG & JODIIII E KLOG	00 131 31 344	80 1ST ST S							
250600770	ZACHARY J LOVELESS & KELLI L LOVELESS	80 1ST ST SW	LEWISTON, MN 55952		117	117	\$95.01	\$11,116.56		

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Parcel ID	Owner	Property Address	Owner Address	Multiple Frontages	Project Footage	Assessable Footage	Assessment Rate	Assessment Amount		
			90 1ST ST S		72	72	\$95.01	\$6,840.96		
250600780	STEPHANIE L PETERSON	90 1ST ST S	LEWISTON, MN 55952		,-	, -	ψ33.01	ψο,ο .ο.σο		
250600790	JASON T PESHON & ERIN A PESHON	100 1ST ST S	100 1ST ST S LEWISTON, MN 55952		68	68	\$95.01	\$6,460.91		
230000790	DT PROPERTIES OF LEWISTON LLC C/O RANDY	100 131 31 3	32495 HEADWATERS DR							
250600810	HEMKER	110 1ST ST S	WINONA, MN 55987		77	77	\$95.01	\$7,316.03		
			135 1ST ST S	Х	447	223.5	\$95.01	\$21,235.48		
250100210	ARLIS ELLINGHUYSEN TRUST	135 1ST ST S	LEWISTON, MN 55952	^	447	223.3	\$95.01	\$21,233.46		
250050004	DT PROPERTIES OF LEWISTON LLC C/O RANDY	450.467.67.6	32495 HEADWATERS DR	х	342	171	\$95.01	\$16,247.28		
250050001	HEMKER DT PROPERTIES OF LEWISTON LLC C/O RANDY	150 1ST ST S	WINONA, MN 55987 32495 HEADWATERS DR							
250050020	HEMKER	170 1ST ST S	WINONA, MN 55987		100	100	\$95.01	\$9,501.34		
230030020		170 131 31 3	180 1ST ST SW, PO BOX 298							
250250010	JERRY A STENSGARD & JUDI G STENSGARD	180 1ST ST SW	LEWISTON, MN 55952		100	100	\$95.01	\$9,501.34		
			190 1ST ST		100	100	\$95.01	\$9,501.34		
250250020	RANDY ZELLER & SHERI ZELLER	190 1ST ST S	LEWISTON, MN 55952		100	100	\$95.01	\$9,501.54		
			200 1ST ST SW		100	100	\$95.01	\$9,501.34		
250250030	AUDREY J NUSZLOCH	200 1ST ST SW	LEWISTON, MN 55952 210 FIRST ST SW				<u> </u>	. ,		
250250040	BRIAN R RASMUSSEN	210 1ST ST SW	LEWISTON, MN 55952		119	119	\$95.01	\$11,306.59		
230230040	DIM IN IN INCOSSEIV	210 131 31 300	220 1ST ST S							
250250050	DAVID H OPSETH LAURIE A OPSETH	220 1ST ST SW	LEWISTON, MN 55952		90	90	\$95.01	\$8,551.20		
			230 1ST ST SW		118	118	\$95.01	\$11,211.58		
250250060	DIONNE L HUND & CORY J MERCHLEWITZ	230 1ST ST SW	LEWISTON, MN 55952		110	110	\$55.01	711,211.30		
250250070	DETER R COUERRRAING	240.457.57.5144	240 1ST ST SW		118	118	\$95.01	\$11,211.58		
250250070	PETER R SCHERBRING	240 1ST ST SW	LEWISTON, MN 55952 250 1ST ST S				<u> </u>			
250250080	MATTHEW J STEPHENS & ASHLEY M MARTIN	250 1ST ST S	LEWISTON, MN 55952		125	125	\$95.01	\$11,876.67		
230230000		250 151 51 5	260 1ST ST, PO BOX 61					4		
250250090	BIG TIMBER TRUST C/O JEAN DRESSELHAUS	260 1ST ST SW	LEWISTON, MN 55952		80	80	\$95.01	\$7,601.07		
			270 1ST ST S		74	74	\$95.01	\$7,030.99		
250250100	ZACHARIAH RINN & KAYLA RINN	270 1ST ST S	LEWISTON, MN 55952		74	74	\$55.01	\$7,030.33		
250250440	CARVE RALIN & RIFERE A RALIN	245 467 67 6	PO BOX 221 LEWISTON,		86	86	\$95.01	\$8,171.15		
250250110	GARY D RAHN & DIEDRE A RAHN	245 1ST ST S	MN 55952 235 1ST ST SW, PO BOX 411							
250250120	JOHN R PRIGGE & KERI L PRIGGE	235 1ST ST SW	LEWISTON, MN 55952		102	102	\$95.01	\$9,691.36		
230230120		255 251 51 511	225 1ST ST S				405	A		
250250130	JACOB M JOHNSON	225 1ST ST S	LEWISTON, MN 55952		163	163	\$95.01	\$15,487.18		
			215 1ST ST SW LEWISTON,		125	125	\$95.01	\$11,876.67		
250250140	RICHARD L FINGER & RETHA A FINGER	215 1ST ST SW	MN 55952		143	123	\$55.01	711,070.07		
250250450	CERALD E DININ 8 CHIRLEY E DININ	205 457 57 5	205 1ST ST S		109	109	\$95.01	\$10,356.46		
250250150	GERALD F RINN & SHIRLEY F RINN	205 1ST ST S	LEWISTON, MN 55952 195 1ST ST SW				•	-		
250250160	JEFFREY R ERICKSON	195 1ST ST SW	LEWISTON, MN 55952		110	110	\$95.01	\$10,451.47		
230230100	VELLUET IN ENIONOOM	TOO TOI OI OW	LL VVIDIOIN, IVIN JJJJZ	l		1	1			

10/1								10/16/17
Parcel ID	Owner	Property Address	Owner Address	Multiple Frontages	Project Footage	Assessable Footage	Assessment Rate	Assessment Amount
250250170	ALLAN R THOMPSON & LALONI J THOMPSON	185 1ST ST SW	185 1ST ST S, PO BOX 547 LEWISTON, MN 55952		100	100	\$95.01	\$9,501.34
250250180	DENNIS C MARTIN & MOIRA L MARTIN	175 1ST ST SW	175 1ST ST SW LEWISTON, MN 55952		100	100	\$95.01	\$9,501.34
250050051	ROBIN E AVERBECK & GAIL M AVERBECK	165 1ST ST S	165 1ST ST S LEWISTON, MN 55952		88	88	\$95.01	\$8,361.18
250050040	BERNICE ENGRAV	155 1ST ST SW	155 1ST ST SW LEWISTON, MN 55952		63	63	\$95.01	\$5,985.84
250050040	KEVIN M RUHOFF & KATHLEEN S RUHOFF	145 1ST ST S	145 1ST ST SW LEWISTON, MN 55952	х	243	121.5	\$95.01	\$11,544.12
250100210	ARLIS ELLINGHUYSEN TRUST	135 1ST ST S	135 1ST ST S, LEWISTON, MN 55952	х	207	103.5	\$95.01	\$9,833.88
250100210	ROBERT L DUNGY	125 1ST ST SW	125 1ST ST SW LEWISTON, MN 55952		94	94	\$95.01	\$8,931.26
250600820	RONALD J LANGE & DAWN M LANGE	115 1ST ST S	115 1ST ST S LEWISTON, MN 55952		88	88	\$95.01	\$8,361.18
250100200	ALICIA M SOMMER	105 1ST ST SW	105 1ST ST SW LEWISTON, MN 55952		89	89	\$95.01	\$8,456.19
250600830	JAMES A REED & AMANDA M REED	95 1ST ST SW	95 1ST ST SW LEWISTON, MN 55952		95	95	\$95.01	\$9,026.27
250600840	ADELE ZANDER	85 1ST ST SW	85 1ST ST S LEWISTON, MN 55952		100	100	\$95.01	\$9,501.34
250600850	JENNIFER MCLAUGHLIN & JACK A MCLAUGHLIN	75 1ST ST SW	75 1ST ST S LEWISTON, MN 55952		88	88	\$95.01	\$8,361.18
250600860	ROBERT J SIEBENALER & JEAN N SIEBENALER	65 1ST ST SW	65 1ST ST SW, PO BOX 507 LEWISTON, MN 55952		66	66	\$95.01	\$6,270.88
250600870	KANZ BROS	55 1ST ST S	385 FIRST AVE N, PO BOX 184 LEWISTON, MN 55952		62	62	\$95.01	\$5,890.83
250600880	DAVID BENSON	1ST ST SW	PO BOX 416 LEWISTON, MN 55952		45	45	\$95.01	\$4,275.60
250550400	DAVID K BENSON & LONNA K BENSON REVOCABLE T	1ST ST SW	19490 COUNTY RD 18 LEWISTON, MN 55952		70	70	\$95.01	\$6,650.93
250550390	CLIFFORD PIERCE	15 FREMONT ST S	605 MAIN ST E, PO BOX 206 LEWISTON, MN 55952	х	140	70	\$95.01	\$6,650.93
250550450	LYMAN L LEWIS & CLARINE J LEWIS	10 2ND ST	10 2ND ST S LEWISTON, MN 55952	Х	158	79	\$95.01	\$7,506.05
250550440	DAVID K BENSON & LONNA K BENSON REVOCABLE TRUST	2ND ST	19490 COUNTY RD 18 LEWISTON, MN 55952		51	51	\$95.01	\$4,845.68
250600890	LEWISTON CITY	30 2ND ST SW	PO BOX 129 LEWISTON, MN 55952		45	45	\$95.01	\$4,275.60
250100020	KANZ BROS	2ND ST	385 FIRST AVE N, PO BOX 184 LEWISTON, MN 55952		145	145	\$95.01	\$13,776.94
250100030	JOHN L ASKE & ANNETTE M ASKE	60 2ND ST S	60 2ND ST S LEWISTON, MN 55952		71	71	\$95.01	\$6,745.95

								10/16/17
Parcel ID	el ID Owner Property Address Owner Address	Owner Address	Multiple	Project	Assessable	Assessment	Assessment	
Parcei ID	Owner	Property Address	Owner Address	Frontages	Footage	Footage	Rate	Amount
			70 2ND ST S LEWISTON,		0.5	0.5	Ć05.04	¢0.026.27
250600910	RICK J SPELTZ & MICHELE ANN SPELTZ	70 2ND ST S	MN 55952		95	95	\$95.01	\$9,026.27
	RAMONA L JEZEWSKI ENGLISH & LARRY R LADEWIG		80 2ND ST S		100	100	Ć0F 04	Ć0 F01 24
250600900	ET AL	80 2ND ST S	LEWISTON, MN 55952		100	100	\$95.01	\$9,501.34
			90 2ND ST S		101	101	Ć0F 01	¢0 500 35
250100150	SHEA O HALVERSON & KATIE E SCHELL HALVERSON	90 2ND ST	LEWISTON, MN 55952		101	101	\$95.01	\$9,596.35
			100 2ND ST S		80	80	\$95.01	\$7,601.07
250100160	TERRY G SCHULTZ	100 2ND ST SW	LEWISTON, MN 55952		80	80	\$95.01	\$7,001.07
			110 2ND ST SW		69	69	\$95.01	\$6,555.92
250100170	CALEB J DAHL	110 2ND ST SW	LEWISTON, MN 55952		09	09	\$95.01	\$0,555.92
			120 2ND ST SW	х	305	152.5	\$95.01	\$14,489.54
250100180	JENNA K HARTMAN & ANDREW J HARTMAN	120 2ND ST SW	LEWISTON, MN 55952	^	303	132.3	\$93.01	714,465.54
			130 BENIKE ST	х	218	109	\$95.01	\$10,356.46
250050080	JOHN SCHLOEGEL	130 BENIKE ST	LEWISTON, MN 55952	^	210	103	\$55.01	710,330.40
			140 2ND ST S		154	154	\$95.01	\$14,632.06
250100010	SCOTT T LUDFORD & SUE ELLEN LUDFORD	140 2ND ST S	LEWISTON, MN 55952		134	134	\$55.01	714,032.00
			27265 COUNTY RD 29		78	78	\$95.01	\$7,411.04
250050090	GARY HEIM	150 2ND ST S	LEWISTON, MN 55952		76	78	\$55.01	77,411.04
			160 COUNTRY CLUB DR, PO					
			BOX 328		76	76	\$95.01	\$7,221.01
250050100	RICHARD D SKADEN & MARY M SKADEN	160 COUNTRY CLUB DR	LEWISTON, MN 55952					
			170 COUNTRY CLUB DR		72	72	\$95.01	\$6,840.96
250050110	THOMAS E KESSLER & PENNY A KESSLER	170 COUNTRY CLUB DR	LEWISTON, MN 55952		,,,	,,,	\$55.01	70,040.30
			178 COUNTRY CLUB DR		81	81	\$95.01	\$7,696.08
250050120	JULIE ANN HENNESSY	178 COUNTRY CLUB DR	LEWISTON, MN 55952		01	01	\$55.01	\$7,030.00
			180 COUNTRY CLUB DR		75	75	\$95.01	\$7,126.00
250350060	SEAN E SANNES & PATRICIA A SANNES	180 COUNTRY CLUB DR	LEWISTON, MN 55952		7.5	73	\$55.01	77,120.00
			200 COUNTRY CLUB DR		83	83	\$95.01	\$7,886.11
250350070	RANDALL SNELL & SUSAN E SNELL	200 COUNTRY CLUB DR	LEWISTON, MN 55952			65	Ç55.01	77,000.11
			210 COUNTRY CLUB DR					
			PO BOX 393		82	82	\$95.01	\$7,791.09
250350080	LEONARD C MAYER & JOAN C MAYER	210 COUNTRY CLUB DR	LEWISTON, MN 55952					
			220 COUNTRY CLUB DR		85	85	\$95.01	\$8,076.14
250350090	JASON S MCCLELLEN & CONNIE MCCLELLEN	220 COUNTRY CLUB DR	LEWISTON, MN 55952				ψ33.01	ψο,ο
			230 COUNTRY CLUB DR		79	79	\$95.01	\$7,506.05
250350100	MERLYN A KRENZ TRUST	230 COUNTRY CLUB DR	LEWISTON, MN 55952			,,,	ψ33.01	ψη,300.03
			2401 23RD STREET, SUITE 1D		120	120	\$95.01	\$11,401.60
250350110	SECRETARY OF HOUSING & URBAN	240 COUNTRY CLUB DR	OKLAHOMA CITY, OK 73107			120	755.01	, 11, 101.00
			100 COUNTY RD 25					
			(DIST #857)			0	\$95.01	\$0.00
250600680	INDEPENDENT SCHOOL DIST 22	COUNTRY CLUB DRIVE	LEWISTON, MN 55952					
			235 COUNTRY CLUB DR		120	120	\$95.01	\$11,401.60
250350050	ANTHONY W SPELTZ	235 COUNTRY CLUB DR	LEWISTON, MN 55952		120	120	\$95.01	Ş11,4U1.0U

10/16/17

				Multiple	Project	Assessable	Assessment	Assessment
Parcel ID	Owner	Property Address	Owner Address	Frontages	Footage	Footage	Rate	Amount
			225 COUNTRY CLUB DR			02	Ć05.04	
250350040	ANGELA R BUYTAERT & KRIS C BUYTAERT	225 COUNTRY CLUB DR	LEWISTON, MN 55952		92	92	\$95.01	\$8,741.23
			205 COUNTRY CLUB DR		89	89	\$95.01	\$8,456.19
250350030	MATTHEW L ESSIG	205 COUNTRY CLUB DR	LEWISTON, MN 55952			65	\$55.01	70,430.13
			195 COUNTRY CLUB DR	х	192	96	\$95.01	\$9,121.28
250350020	JEREMEY R KINGSLEY & AMBER E KINGSLEY	195 COUNTRY CLUB DR	LEWISTON, MN 55952				,	, - ,
			175 COUNTRY CLUB DR					4
			PO BOX 165	Х	186	93	\$95.01	\$8,836.24
250350010	MARILYN K PETERSON	175 COUNTRY CLUB DR	LEWISTON, MN 55952					
250000000	NAVAME C REICEL & CVAITURA P REICEI	455 2ND CT C	155 2ND ST S, PO BOX 363		86	86	\$95.01	\$8,171.15
250600930	WAYNE C BEISEL & CYNTHIA R BEISEL	155 2ND ST S	LEWISTON, MN 55952 145 2ND ST S					
250600940	TROY D LEIBFRIED & LINDA K LEIBFRIED	145 2ND ST S	LEWISTON, MN 55952		90	90	\$95.01	\$8,551.20
230000940	TROT D LEIBFRIED & LINDA R LEIBFRIED	143 2100 31 3	135 2ND ST S					
250600950	KEVIN D LUBINSKI & MARCIA A WALZ	135 2ND ST S	LEWISTON, MN 55952		124	124	\$95.01	\$11,781.66
250000550	NETWO ZODING W WINNESS TO THE	199 2112 01 0	PO BOX 401					
250100140	JON C NIENOW	2ND ST	LEWISTON, MN 55952		76	76	\$95.01	\$7,221.01
			PO BOX 401		120	420	Ć05.04	Ć44 404 CO
250100130	JON C NIENOW	105 2ND ST S	LEWISTON, MN 55952		120	120	\$95.01	\$11,401.60
			95 2ND ST S		121	121	\$95.01	\$11,496.62
250100120	CHARLES A PENHEITER & LOIS D PENHEITER	95 2ND ST S	LEWISTON, MN 55952		121	121	\$55.01	711,450.02
			85 2ND ST S		88	88	\$95.01	\$8,361.18
250100110	EILEEN M THEIN	85 2ND ST S	LEWISTON, MN 55952				ψ33.01	ψο,σσ1.10
.=	CDECORY E ROMOW & MENDY I ROMOW		75 2ND ST S LEWISTON,		91	91	\$95.01	\$8,646.22
250100100	GREGORY E BONOW & WENDY J BONOW	75 2ND ST S	MN 55952 65 2ND ST S					
250100090	KAREN A HARRISON	65 2ND ST S	LEWISTON, MN 55952		60	60	\$95.01	\$5,700.80
230100090	RARLINA HARRISON	03 2ND 31 3	70 2ND ST					
250100080	MICHELE A SPELTZ	55 2ND ST S	LEWISTON, MN 55952		60	60	\$95.01	\$5,700.80
25010000		55 2.15 6. 5	45 2ND ST SW					
250100070	RONALD B SCHELL & TERRY L SCHELL	45 2ND ST SW	LEWISTON, MN 55952		60	60	\$95.01	\$5,700.80
			35 2ND ST S			10	405.04	40.000.50
250100060	TIMOTHY J HOOVER	35 2ND ST S	LEWISTON, MN 55952		40	40	\$95.01	\$3,800.53
			PO BOX 684		105	105	\$95.01	\$9,976.40
250100050	WILLIAM C BRACKETT	25 2ND ST S	LEWISTON, MN 55952		103	103	\$55.01	<i>⊋3,37</i> 0.40
350400040	DENIANAINI I DODCIIADDE S AUCOLE I DANIEL	EE EDEN AONIT CT C	55 FREMONT ST S	x	212	106	\$95.01	\$10,071.42
250100040	BENJAMIN J BORCHARDT & NICOLE L PANEK	55 FREMONT ST S	LEWISTON, MN 55952				,	,-
250050070	TIMOTHY A DISLOW	DE DENIME CT	35 BENIKE ST LEWISTON, MN 55952		112	112	\$95.01	\$10,641.50
250050070	TIMOTHY A RISLOW	35 BENIKE ST	LEVVISTOIN, IVIIN 55952					

Total Assessable Footage 9578
Total Estimated Assessable Project Costs \$4,550,189.49
Total Estimated Assessable Costs (20%) \$910,037.90
Estimated Assessment Rate(per foot) \$95.01
Estimate per Parcel Assessment \$8,667.03

Appendix C: Project Schedule

Project Schedule

2018 Street & Utility Improvement Project

City of Lewiston BMI Project No. H19.113656 10/11/2017

BMI Project No

H-\LEWISTON_CI_MN\H19113656\0_2018 Street & Utility Improvements\A_Project Management\[10-10-2017 Project Schedule.xls]Sheet 1

All construction except bituminous wearing course completed in October 2018. Bituminous wearing course completed in Spring Notice must be mailed to each property owner in the proposed Notice must be published twice, at least a week apart, with the Informational meeting to discuss findings of the Feasibility Requires 4/5 vote of Council to pass since project is Council Published at least once, at least two weeks prior to hearing Notice must be mailed at least two weeks prior to hearing last publication appearing at least 3 days prior to hearing. Informational meeting to discuss upcoming construction Informational meeting to inform residents and business For determining the scope of the project. Sanitary sewer owners in the project area. Why? What? & When? televising, water main & storm sewer investigation. assessment area at least 10 days prior to hearing. activities. What to expect? What not to expect? Report and to discuss preliminary assessments initiated. 2019. 11/8/2017 - 3/14/2018 10/26/17 and 11/2/17 5/24/17 5/24/17 - 10/25/17 September 2019 September 2019 September 2019 September 2019 September 2019 September 2019 October 2019 October 2019 October 2019 June 2019 April 2017 10/25/17 10/27/17 3/22/18 3/29/18 4/5/18 **April 2018** May 2018 May 2017 11/2/17 3/14/18 3/15/18 11/8/17 4/28/18 11/8/17 Date City Council, City Engineer City Engineer, City Staff City Council, City Engineer City Engineer, City Staff **Action Required By** City Council City Engineer City Engineer City Engineer City Engineer City Council City Council City Council City Engineer City Council City Council City Council City Counci City Counci Contractor Contractor Resolution Receiving Report and Calling for Hearing on Resolution Declaring Cost to Be Assessed and Ordering Resolution for Hearing on Proposed Assessment
Published Notice of Hearing on Proposed Assessment
Mailed Notice of Hearing on Proposed Assessment
Neighborhood Informational Meeting Resolution Ordering Improvement and Preparation of Resolution Approving Plans and Specifications and Published Notice of Hearing on Improvement Resolution Ordering Preparation of Report Prepare Feasibility Report Mailed Notice of Hearing on Improvement Neighborhood Informational Meeting **Neighborhood Informational Meeting** Preparation of Proposed Assessment Steps Required Resolution Adopting Assessment Resolution Awarding Contract Prepare Plans and Specifications Ordering Advertisement for Bids Kick Off Informational Meeting Resolution Awarding Contract Preliminary Investigation Plans and Specifications Prepare Assessment Rol Improvement Hearing Assessment Hearing Begin Constructior Advertise for Bids End Construction Improvement Open Bids

Appendix D: Utility Investigation Report



Real People. Real Solutions.

2900 43rd Street NW Suite 100 Rochester, MN 55901

Ph: (507) 208-4332 Fax: (507) 208-4155 Bolton-Menk.com

May 10, 2017

Honorable Mayor and City Council City of Lewiston 75 Rice Street Lewiston, MN 55952

RE: 2018 Street and Utility Improvement Project

City of Lewiston

Project No.: H19.113656

Mayor and City Council:

As directed by City Council, Bolton & Menk, Inc. has completed an evaluation of the city's underground utilities within the project area. This report summarizes the findings of the evaluation, and is intended to give the City Council an understanding of the condition of the underground utilities within the project area. This will help facilitate further discussions on the scope of the proposed improvement project. Our findings are as follows:

Storm Sewer

The storm sewer, catch basins and manholes were evaluated for condition. In general the storm sewer pipe is in fair condition. The manhole's and catch basins are in poor condition. The capacity of the storm sewer system was not evaluated, but based our experience with similar systems, it is likely inadequate to convey the 10 year storm per city policy.

Public Works Department has had complaints of localized flooding on First Street South. Catch basin spacing and grate capacity throughout the project area is not adequate.

Additionally, in the event that water main and sanitary sewer are reconstructed, the vast majority of the storm sewer system will need to be removed in order to construct the other utilities.



Catch Basin with Pipe Through it



Catch Basin in Very Poor Condition

Date: May 10, 2017

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Catch Basin with Inadequate Grate Capacity



Catch Basin with Adequate Grate Capacity – Williams Street Project.

Water Main

Water main condition is evaluated by age, pipe material type, and known water main breaks. There have been relatively few water main breaks throughout the project area. However, the age of the water main varies from early 1960's to early 1970's. Overall, the age of the water main is believed to be between 45-55 years old and is likely cast iron pipe. The American Water Works Association estimates that a properly maintained water distribution system may last 75-80 years under ideal conditions and with proper maintenance. Industry standard throughout the Midwest estimates the life expectancy of cast iron pipe is 50 years due to the geological conditions that exist throughout the region.

The water main within the project area varies in diameter from 4" to 8". A 4" diameter water main does not provide enough flow through it to meet modern fire protection standards. Additionally, hydrant locations are not placed to provide for adequate fire protection coverage.

With the age of the water main throughout the project area the City Council must determine whether or not it is a wise investment to reconstruct a new street over a water main that is 45-55 years old. The new street should last, with proper maintenance, 40-50 years. At which time the water main will be close to 100 years old.

Date: May 10, 2017

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Sanitary Sewer

The sanitary sewer system was evaluated by televising of the sewer mains and visual inspection of the manholes. Overall, the sewer mains are in fair to poor condition and manholes are in fair condition.

Reduction of inflow and infiltration into the sanitary sewer systems continues to be a very high priority for the city. The sewer televising indicates that the majority of the pipe joints have either root intrusions or defective joints. These issues can attribute greatly to infiltration of the ground water into the sanitary sewer system.

The following indicates some of the issues that were noted on the sanitary sewer televising report.

MH 1 to MH 2

- All taps factory constructed
- Numerous joints with root intrusion





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MH 2 to MH 3

• All taps factory constructed

• No other issues of note

MH 3 to MH 4

• All taps factory constructed

• No other issues of note

MH 3 to Lift Station

Numerous joints with root intrusion

• Broken pipe



MH 4 to MH 5

- All taps factory constructed
- No other issues of note

MH 6 to MH 7

- All taps factory constructed
- No other issues of note

MH 7 to MH 7A

- All taps factory constructed
- Numerous cracks
- Broken and missing pipe







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MH 7A to MH 7B

- All taps factory constructed
- No other issues of note

MH 7B to MH 8

- All taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe





MH 8 to MH 9

• PVC pipe reconstructed in 2008

MH 9 to MH 10

- All taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe





MH 7 to MH 13

- All taps factory constructed, one broken
- Numerous cracks in the pipe

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MH 13 to MH 14

- All taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe





MH 14 to MH 15

- Majority of taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe
- Pipe has a 3' long patch approximately 115' downstream of MH 14
- Pipe has a 5' long patch approximately 292' downstream of MH 14





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MH 16 to MH 17

- Majority of taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe
- 68' of PVC upstream from MH 16





MH 17 to MH 17A

- Majority of taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe
- MH 17A is a cleanout constructed with the Williams Street Project





MH 18 to MH 19

- Majority of taps factory constructed, but a number of them are broken
- Numerous cracks in the pipe
- 44' of PVC upstream from MH 18, constructed with the Williams Street Project

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MH 19 to MH 20

- No issues noted
- Pipe ends 27' west of MH 19

MH 7A to MH 11

- Pipe is 4" diameter, could not be televised
- Pipe throughout trailer park is believed to be 4" diameter.

Conclusions

The sanitary sewer collection and water main distribution systems are at the end of their life expectancy. The storm sewer system could be rehabilitated with the reconstruction of the existing catch basins and the addition of new catch basins.

Reconstruction of the street surfacing is necessary. Therefore, it is most economical to reconstruct the existing underground utilities at the time of street reconstruction. There would be a significant cost savings in not reconstructing the existing utilities at this time. However, that may be a "kicking it down the road" scenario, which may require future councils to invest in other more expensive alternatives to reconstruct the underground utilities without damaging the road surface.

Bolton & Menk, Inc.

Brian P. Malm, P.E.

City Engineer

Bolton & Menk, Inc.

Bryan Holtz

Senior Engineering Technician

