



**BOLTON  
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**Preliminary Engineering Report**

# **2019 Street Improvement Project**

City of Wabasha, MN



**September 2018**

**Submitted by:**

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BMI No. H19.115905

# Certification

Preliminary Engineering Report

for

2019 Street Improvement Project

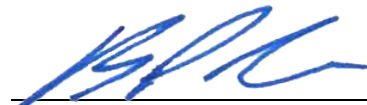
City of Wabasha, MN

BMI No. H19.115905

September 2018

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:

9/27/18

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## 1.0 EXECUTIVE SUMMARY

This Preliminary Engineering Report considers street and selected utility infrastructure improvements along the following streets, to be referred to as the project area.

- Augustin Avenue – Between Rustic Lane and Rustic Lane
- Rustic Lane – Between Augustin Avenue and Angelique Avenue
- River Drive South – From Angelique Avenue to 3100 feet SE
- 12<sup>th</sup> Street East – Between Franklin Avenue and Broadway Avenue
- Pierce Avenue – Between 12<sup>th</sup> Street East and 8<sup>th</sup> Street East
- 9<sup>th</sup> Street East – Between Broadway Avenue and Hiawatha Drive East
- Milligan Avenue – Between 9<sup>th</sup> Street East and Market Street East
- Market Street East – Between Milligan Avenue and 2<sup>nd</sup> Street East
- Jefferson Avenue – Between 10<sup>th</sup> Street East and Market Street East
- Franklin Avenue – Between 2<sup>nd</sup> Street East and Main Street East
- Jefferson Avenue – Between 3<sup>rd</sup> Street East and 2<sup>nd</sup> Street East
- Arch Avenue – Between Hiawatha Drive West and 7<sup>th</sup> Street West
- 10<sup>th</sup> Street West – Between Hiawatha Drive West and Church Avenue
- Alleghany Avenue – Between Hiawatha Drive West and 8<sup>th</sup> Street West
- 8<sup>th</sup> Street West – Between Alleghany Avenue and Pembroke Avenue


The existing street and selected utility infrastructure in the project area is deteriorated and in need of repair as described in this report. If the recommended improvements are not made, maintenance costs will continue to rise as further deterioration occurs, and the infrastructure will ultimately fail.

The project as proposed would consist of bituminous mill and overlay, full depth reclamation, replacement of bituminous curb, spot repair of concrete curb & gutter, and storm sewer improvements in selected areas.

The total estimated cost of the proposed improvements is \$1,299,000. Funding for the improvements is proposed to come from capital improvement funds and special assessments.

Based on the City's Local Improvement policy, the estimated total amount to be assessed for the project is \$259,764. The estimated assessment for a single family residential property is \$1,385.41.

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. 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, Assessment Hearings, Approvals, Bidding, and Award– October 2018 to April 2019
- Construction - May 2019 to September 2019

## PROJECT INTRODUCTION

This Preliminary Engineering Report considers pavement and selected utility improvements for the following streets in the City of Wabasha:

- Augustin Avenue – Between Rustic Lane and Rustic Lane
- Rustic Lane – Between Augustin Avenue and Angelique Avenue
- River Drive South – From Angelique Avenue to 3000 feet SE
- 12<sup>th</sup> Street East – Between Franklin Avenue and Broadway Avenue
- Pierce Avenue – Between 12<sup>th</sup> Street East and 8<sup>th</sup> Street East
- 9<sup>th</sup> Street East – Between Broadway Avenue and Hiawatha Drive East
- Milligan Avenue – Between 9<sup>th</sup> Street East and Market Street East
- Market Street East – Between Milligan Avenue and 2<sup>nd</sup> Street East
- Jefferson Avenue – Between 10<sup>th</sup> Street East and Market Street East
- Franklin Avenue – Between 2<sup>nd</sup> Street East and Main Street East
- Jefferson Avenue – Between 3<sup>rd</sup> Street East and 2<sup>nd</sup> Street East
- Arch Avenue – Between Hiawatha Drive West and 7<sup>th</sup> Street West
- 10<sup>th</sup> Street West – Between Hiawatha Drive West and Church Avenue
- Alleghany Avenue – Between Hiawatha Drive West and 8<sup>th</sup> Street West
- 8<sup>th</sup> Street West – Between Alleghany Avenue and Pembroke Avenue

The project location within the City of Wabasha and the specific streets being considered for improvement are shown on the Project Location Map, Figure No. 1, both in 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 and assessments for the proposed project.
4. Determine the project schedule.
5. Determine the feasibility of the proposed project.

The project as proposed would consist of bituminous mill and overlay, full depth reclamation, replacement of bituminous curb, spot repair of concrete curb & gutter, and storm sewer

improvements in selected areas.

Specific items of construction will consist of:

1. Milling of existing pavement and bituminous curb and gutter.
2. Full depth reclamation on selected streets
3. Removal and replacement of storm sewer in selected areas.
4. Regrade the intersection at Alleghany Avenue & 8<sup>th</sup> Street W
5. Installation of bituminous pavement.
6. Installation of bituminous curb.
7. Spot repair of existing concrete curb and gutter.
8. Turf Establishment

## 2.0 EXISTING CONDITIONS

### 2.1 STREET

The streets in the project area vary in width between 20-35 ft and are bituminous surfaced, some with bituminous curb and some with concrete curb and gutter. The platted right of way width for the streets in the project area varies between 60-90 ft.

The bituminous pavements in the project area shows signs of oxidation, fatigue cracking, block cracking, some rutting and patched areas. During the summer of 2017, City staff completed a street condition inventory, which included rating the condition of all City streets using the Pavement Surface Evaluation and Rating (PASER) Methodology, originally developed for the Wisconsin Department of Transportation. The PASER system rates streets on a scale of 1-10 with 1 being a completely failed street, and 10 being a brand new street. Figure No. 2, in Appendix A, shows the results of the street ratings.

As the figure shows, the PASER rating for the streets in the project area range between 3-6. Typically pavements with a rating between 7-10 are good candidates for crack and chip seal treatment, pavements with a rating between 4-6 are good candidates for a mill and overlay, and pavements with a rating between 1-3 are targeted for full reconstruction.

The condition of the existing bituminous curb ranges from fair to poor, with some areas where the curb has nearly been obliterated. The condition of the existing concrete curb and gutter ranges from good to fair, although there are some locations that require replacement due to settlement or severe cracks.

Following are some representative photos of the condition of the existing streets.





**Alleghany Avenue**



**Augustin Avenue**



**River Drive S**



**9<sup>th</sup> Street E**





**12th Street E**

## 2.2 STORM DRAINAGE

The existing storm drainage system in the majority of the project area consists of surface drainage flowing along the curb lines to adjacent streets where storm sewer does exist. Storm sewer ranging in size from 12-inch to 18-inch diameter does exist in Pierce Avenue, 12<sup>th</sup> Street East and River Drive South.

The condition of the storm sewer pipe itself is unknown, although it is assumed to consist mostly of concrete pipe. The condition of the catch basins and castings in the project area ranges from fair to good

The existing storm drainage system is shown on Figure No. 3 in Appendix A.

## 2.3 SANITARY SEWER

Sanitary sewer exists under several of the streets in the project area, and consists of 6-inch to 12-inch diameter vitrified clay pipe (VCP) sewer main, and 4-inch to 6-inch diameter VCP or cast iron service laterals. Based on information available, the sanitary sewer in the project area ranges in age from 30 to 100 years old.

Infiltration is a problem in the City of Wabasha, especially with VCP sewer and services, because this pipe is typically not water tight and allows groundwater to enter the sewer system, which can cause flows in the sanitary sewer system to increase significantly. At a minimum, this results in increased costs for pumping and treatment at the wastewater treatment plant. At the worst, it can cause pipes and pumps to be overwhelmed, resulting in sewer backups or the need to bypass pump.

Due to previous significant sanitary sewer bypass events during high river levels or flooding conditions, the Minnesota Pollution Control Agency (MPCA) has notified the City that it needs to address inflow (direct clean water connections such as sump pumps, footing tiles, or roof drain leaders) and infiltration in the sanitary sewer collection system. If the City does not address the issue, the MPCA may not grant permits for sewer extensions for new developments in the City.

The existing sanitary sewer system is shown on Figure No. 3 in Appendix A.

#### 2.4 WATERMAIN

The existing water distribution system in the project area consists of 6-8 inch diameter pipe assumed to be mostly cast iron. Based on information available, the sanitary sewer in the project area mostly ranges in age from 60 to 100 years old. Cast iron watermain of this age has outlived its expected life and is typically targeted for replacement.

The existing watermain system is shown on Figure No. 3 in Appendix A.


#### 2.5 OTHER UTILITIES

Other non-municipal owned utilities are present in the right-of-way. These include electric, natural gas and telecommunication. The condition of these utilities are unknown.

### 3.0 PROPOSED IMPROVEMENTS

#### 3.1 STREET

All of the project area streets will be either milled and overlaid with a new 2-inch thick layer of bituminous pavement or reclaimed and replaced with 4-inches of bituminous pavement. On streets with existing bituminous curb, the curb will be removed by milling and will be replaced with new bituminous curb. On streets with existing concrete curb and gutter the curb will remain in place, except for selected areas where the curb is severely damaged or has settled. In areas where significant structural deterioration has occurred, full depth patches will be constructed prior to constructing the 2-inch overlay.



The intersection of Alleghany Avenue & 8<sup>th</sup> Street West is proposed to be regraded to reduce the occurrence of flooding and to match the adjacent lots. This is anticipated to include raising the road surface up to 2 feet and installing driveway culverts where needed to maintain drainage.

While mill and overlay projects initially produce a new “crack free” bituminous surface, cracks that exist in the underlying bituminous pavement will “reflect” through within the first 1-2 years and additional cracking will continue over the life of the pavement. This is normal and should be expected. As with past mill and overlay projects in the City, those cracks should be sealed as soon as possible.

A mill and overlay improvement is expected to last between 10-15 years, depending upon the condition of the underlying pavement. With proper maintenance (crack seal and chip seal treatments every 7 years) and a dry, stable underlying base, some of the streets may see extended life of 20-25 years.


A reclamation improvement is expected to last between 20-25 years, depending upon the condition of the underlying subgrade. With proper maintenance (crack seal and chip seal treatments every 7 years) and a stable underlying base, this may be extended to 30-35 years, perhaps longer with future overlays prior to reconstruction.

The streets that are proposed for surface improvements are shown on Figure No. 4 in Appendix A

### 3.2 STORM DRAINAGE

Storm sewer and roadway base drainage improvements are proposed on three segments of the project area.

- Augustin Avenue and Rustic Lane: 6-inch perforated underdrains are proposed to be run along the existing lip of curb along Augustin Avenue and Rustic Lane with sump pump service stubs for adjacent properties to hook onto. This will be further evaluated during final design and a final decision on installation will be made based on the condition of the soil beneath the aggregate base determined through soil borings.
- 10<sup>th</sup> Street W: New storm sewer pipes and catch basins are proposed along 10<sup>th</sup> Street W where new concrete curb & gutter is proposed to replace the existing bituminous curb. A feasible location and outlet for the storm sewer will need to be determined during final design. If possible, this storm sewer will be eliminated and the street



will surface drain.

- Alleghany Avenue and 8<sup>th</sup> Street West: Culverts may need to be added at the intersection of Alleghany Avenue and 8<sup>th</sup> Street West to maintain drainage when the roadway is regraded.

It should be noted that on mill and overlay and reclaim projects it is very difficult to solve drainage issues, as the new pavement generally follows the grade of the existing street. If the existing streets are flat and have localized “bird bath” type ponding along the edge of street (as shown in many locations in the photos in this report), it should be expected that for the most part those ponds will remain. While attempts will be made during the design and construction process to address these issues where possible, the City should note that full street reconstruction with the complete replacement or addition of concrete curb and gutter would be necessary to fully address such localized ponding.


### 3.3 SANITARY SEWER

Based on the need to minimize inflow and infiltration (I&I, i.e., surface or groundwater) entering into the system, it is proposed to replace all sanitary manhole castings within the project areas and install sealed lids and I&I barriers on these structures to prevent surface or ground water from entering the storm sewer system through any gaps in the adjusting rings of the existing structures. While no sanitary sewer replacement or lining is proposed as a part of this project, the City is planning to complete selected sewer main lining within the project area as a separate project. If the sewer main and services were to be replaced, the majority of the street surface would be disturbed, and the project would essentially become a full reconstruction.

### 3.4 WATERMAIN

Given the scope of the proposed project as a mill and overlay surfacing improvement project, no improvements to the watermain system (aside from valve box adjustments) are proposed. If the watermain and water services were to be replaced, the majority of the street surface would be disturbed, and the project would essentially become a full reconstruction.

We understand that the City does not have the funding to pursue a full reconstruction project at this time. As noted in Section 3.1, a mill and overlay improvement has the potential to last 20-25 years with proper maintenance. Given that the watermain is currently 60-100 years old, this means that it may be approaching 80-125 years old by the time the street requires reconstruction. The City should be aware that it is very likely that watermain repairs requiring cutting into the street surface will be necessary during this



20-25 year period. If watermain breaks become a significant problem, it may also mean that the street may need to be reconstructed prior to 20-25 years based on the condition of the watermain.

### 3.5 OTHER UTILITIES

The design of the proposed improvements will be coordinated with the owners of private utilities such as electric, natural gas, and telecommunications. A design coordination meeting will be held with all private 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.



### 3.6 RIGHT-OF-WAY AND EASEMENTS

The project will be designed to stay within the existing right-of-way limits. Temporary construction easements may be necessary along the project frontage to accommodate for minor construction disturbances at driveway tie-ins and turf grading limits. The location of any temporary construction easements will be determined during final design.

## 4.0 APPROVALS AND PERMITS


No formal permits from other government agencies are required for this project. Coordination with MnDOT and Wabasha County related to traffic control or any minor impacts to their right-of-way will be completed during the design and construction phases of the project.

## 5.0 PROJECT COST ESTIMATE AND FINANCING

The total estimated project costs are summarized below. A detailed cost estimate and breakdown is included in Appendix B.

	<b>Total Project Cost</b>
Total Estimated Construction Cost	\$1,056,000
Design and Construction Engineering	\$190,000
Administration and Legal	\$53,000
<b>Total Estimated Project Cost</b>	<b>\$1,299,000</b>

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.



We understand that the project is proposed to be financed using Capital Improvement Funds and special assessments.

The process for determining special assessments for the project is described in the City's Local Improvement Policy. In the policy, the proposed improvements are considered a Class E improvement.

Under Class E improvements, the policy states that the cost of street and storm sewer improvements shall be assessed to the benefitting properties on a per unit basis, with a per unit cost equivalent to 20% of the total project cost, but not greater than the benefit to the property. Benefitting properties are those properties that abut the streets being improved. Assessable units are calculated using an equivalent residential unit. Any residential building lot is considered one unit, while the number of units for non-residential properties is calculated based on frontage. The preliminary assessment roll includes 173 parcels. The estimated total number of equivalent residential units for the project is 187.5. With a total project cost for the street and storm sewer improvements of \$1,298,820, the 20% assessable amount is \$259,764. Therefore, the estimated per unit assessment for the street and storm sewer improvements is \$1,385.41. A preliminary assessment roll of benefitting properties is included in Appendix C of this report. Individual assessments range from \$692.70 to a high of \$10,390.56, with an average assessment of \$1,501.53.

Special assessments must not exceed the special benefit to the property being assessed. Based on court decisions, special benefits have been determined to be equivalent to the market value increase of the property due to the improvement. Therefore, special assessments must not exceed the market value increase. The City's policy also states that the City Council may obtain appraisals to determine the market value increase in the benefitting properties if it is necessary to support the assessments.

## 6.0 PROPOSED SCHEDULE

The schedule for the project is shown below. This schedule represents the necessary steps to complete the project, including the hearings and notices required by Minnesota Statute 429 for the assessment process.

Steps Required	Date
Council Orders Preparation of Feasibility Report	8/7/18
Prepare Feasibility Report	9/1/18 – 10/1/18
Resolution Receiving Report and Calling for Hearing on Improvement	10/2/2018
Published Notice of Hearing on Improvement	10/24/18 and 10/31/18
Mailed Notice of Hearing on Improvement	10/24/18
Neighborhood Informational Meeting #1	10/30/18
Improvement Hearing	11/1/18
Resolution Ordering Improvement and Preparation of Plans and Specifications	11/1/18
Prepare Plans and Specifications	11/7/18 – 2/4/19
Neighborhood Informational Meeting #2	1/8/19
Resolution Approving Plans and Specifications and Ordering Advertisement for Bids	2/5/2019
Advertise for Bids	2/6/19
	2/13/19
	2/20/19
Open Bids	2/27/19
Resolution Declaring Cost to Be Assessed and Ordering Preparation of Proposed Assessment	3/5/19
Resolution for Hearing on Proposed Assessment	3/5/19
Prepare Assessment Roll	3/6/19 – 4/1/19
Published Notice of Hearing on Proposed Assessment	3/13/19
Mailed Notice of Hearing on Proposed Assessment	3/13/19
Neighborhood Informational Meeting #3	3/26/19
Assessment Hearing	4/2/19
Resolution Adopting Assessment	4/2/19
Resolution Awarding Contract	4/2/19
Begin Construction	May 2019
End Construction	September 2019

## 7.0 CONCLUSION AND RECOMMENDATIONS

The existing street and utility infrastructure in the project area is deteriorated and in need of repair as described in this report. If the recommended improvements are not made, 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.

We recommend that the City Council accept this report, call for a hearing on the proposed improvements, and consider scheduling a separate neighborhood informational meeting prior to the improvement hearing to provide an additional, less formal opportunity for public involvement on the project.

## Appendix A: Figures





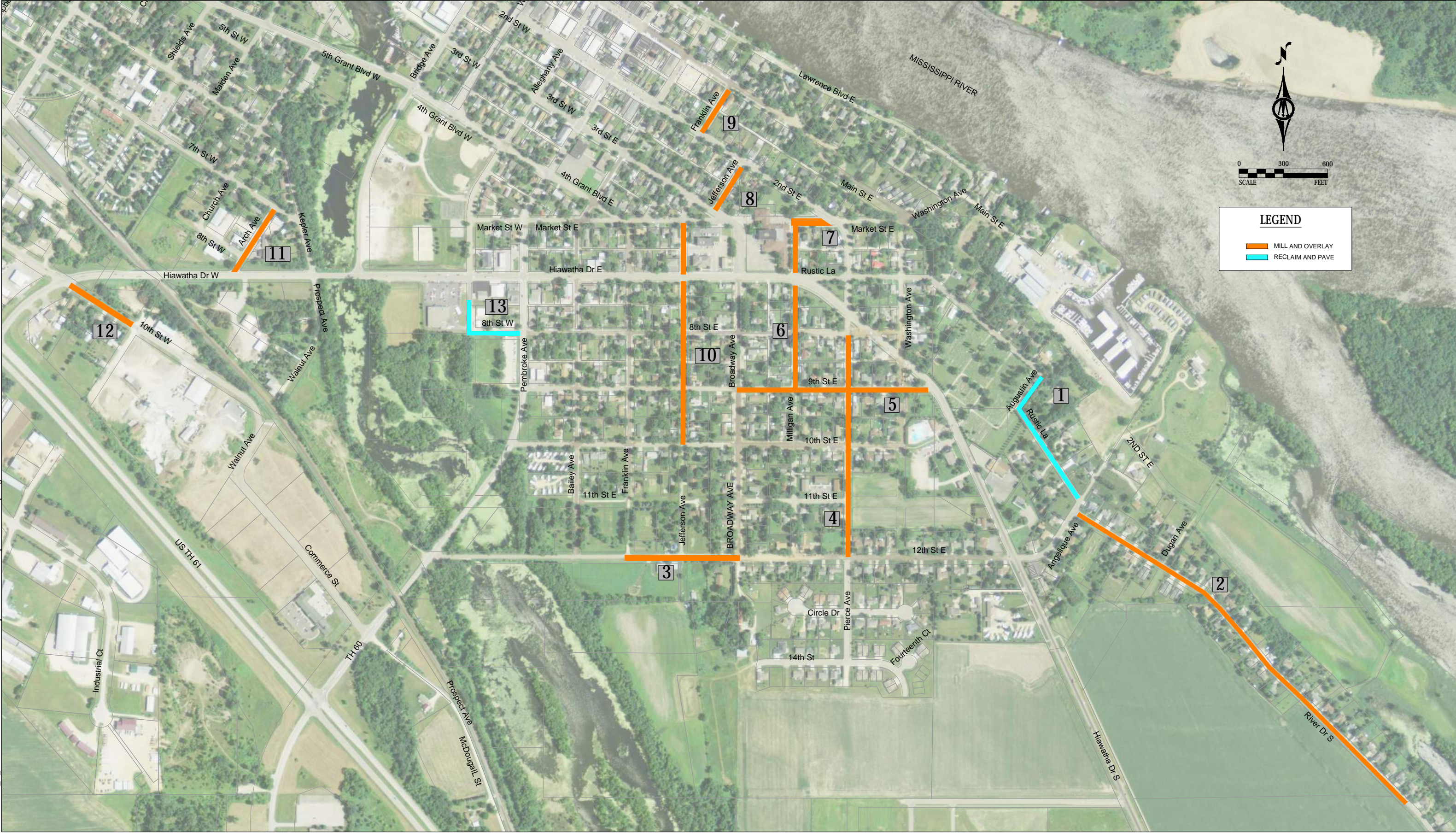














## Appendix B: Detailed Cost Estimate



**PRELIMINARY COST ESTIMATE**  
**2019 STREET & UTILITY IMPROVEMENTS**



CITY OF WABASHA, MINNESOTA  
 BMI PROJECT NO. H19.115905  
 9/14/2018

Roadway Segment	Recommended Improvement	Street Cost	Storm Sewer Cost	Sanitary Sewer Cost	Water Main Cost	Total Construction Cost	Total Project Cost
(1) RUSTIC LANE (North End of Augustin Ave to Angelique Ave)	Reclaim and Pave	\$109,213.25	\$29,260.00	\$4,455.00	\$275.00	\$143,203.25	\$176,139.99
(2) RIVER DRIVE (Angelique Avenue to 3100' South)	Mill and Overlay	\$141,756.16	\$0.00	\$20,790.00	\$550.00	\$163,096.16	\$200,608.27
(3) 12TH STREET EAST (Broadway Avenue to Franklin Avenue)	Mill and Overlay	\$48,992.04	\$0.00	\$1,485.00	\$550.00	\$51,027.04	\$62,763.26
(4) PIERCE AVE (12th Street East to 8th Street East)	Mill and Overlay	\$81,748.43	\$0.00	\$5,940.00	\$1,375.00	\$89,063.43	\$109,548.02
(5) 9TH STREET EAST (Broadway Avenue to Hiawatha Drive East)	Mill and Overlay	\$73,348.47	\$0.00	\$7,425.00	\$1,375.00	\$82,148.47	\$101,042.62
(6) MILLIGAN AVENUE (9th Street East to Market Street East)	Mill and Overlay	\$62,304.47	\$0.00	\$2,970.00	\$1,375.00	\$66,649.47	\$81,978.85
(7) MARKET STREET EAST (Milligan Avenue to 2nd Street East)	Mill and Overlay	\$22,804.96	\$0.00	\$2,970.00	\$0.00	\$25,774.96	\$31,703.20
(8) JEFFERSON AVENUE (3rd Street East to 2nd Street East)	Mill and Overlay	\$21,634.86	\$0.00	\$0.00	\$0.00	\$21,634.86	\$26,610.87
(9) FRANKLIN AVENUE (2nd Street East to Main Street East)	Mill and Overlay	\$21,654.66	\$0.00	\$0.00	\$550.00	\$22,204.66	\$27,311.73
(10) JEFFERSON AVENUE (10th Street East to Market Street East)	Mill and Overlay	\$78,677.87	\$0.00	\$10,395.00	\$1,375.00	\$90,447.87	\$111,250.89
(11) ARCH AVENUE (Hiawatha Drive West to 7th Street West)	Mill and Overlay	\$29,890.27	\$0.00	\$1,485.00	\$0.00	\$31,375.27	\$38,591.59
(12) 10TH STREET WEST (Shields Avenue to 500' South)	Mill and Overlay	\$48,208.60	\$32,120.00	\$1,485.00	\$0.00	\$81,813.60	\$100,630.73
(13) ALLEGHANY AVENUE & 8TH STREET WEST	Reclaim and Pave	\$180,912.36	\$6,600.00	\$0.00	\$0.00	\$187,512.36	\$230,640.20
Totals		\$921,146.38	\$67,980.00	\$59,400.00	\$7,425.00	\$1,055,951.38	\$1,298,820.20

## PRELIMINARY COST ESTIMATE

RUSTIC LANE (North End of Augustin Ave to Angelique Ave)

CITY OF WABASHA, MN

H:\WABASHA\_CI\_MN\H19115905\2\_Preliminary\A\_Calculations\[2019 Street & Utility Improvements PCE 09-14-2018.xlsx]STREET 1

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$4,402.00	1.0	\$4,402.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	220.0	\$660.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	52.0	\$156.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	353.0	\$5,295.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	32.0	\$1,440.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	0.0	\$0.00
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	51.0	\$107.10
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	731.0	\$59,942.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	0.0	\$0.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	3,177.8	\$8,262.22
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	220.0	\$3,300.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	0.0	\$0.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$1,860.45	1.0	\$1,860.45
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	2,310.0	\$13,860.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$99,284.77

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	2,070.0	\$24,840.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	8.0	\$1,760.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$26,600.00

## PRELIMINARY COST ESTIMATE

RUSTIC LANE (North End of Augustin Ave to Angelique Ave)

CITY OF WABASHA, MN

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### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	3	\$1,650.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	3	\$1,050.00
60	2506.602	I & I BARRIER	EACH	\$450.00	3	\$1,350.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$4,050.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$12.50	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	1	\$250.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$250.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$130,184.77
CONSTRUCTION CONTINGENCY	\$13,018.48
TOTAL ESTIMATED CONSTRUCTION COSTS	\$143,203.25
DESIGN AND CONSTRUCTION ENGINEERING	\$25,776.58
ADMINISTRATION AND LEGAL	\$7,160.16
TOTAL ESTIMATED PROJECT COSTS	\$176,139.99

## PRELIMINARY COST ESTIMATE

RIVER DRIVE (Angelique Avenue to 3100' South)

CITY OF WABASHA, MN

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### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$5,014.00	1.0	\$5,014.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	620.0	\$1,860.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	58.0	\$174.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	100.0	\$4,500.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	9,989.0	\$14,983.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	72.0	\$151.20
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	1,034.0	\$84,788.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	54.0	\$4,428.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	620.0	\$9,300.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	0.0	\$0.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$2,428.53	1.0	\$2,428.53
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	207.0	\$1,242.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$128,869.23

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

RIVER DRIVE (Angelique Avenue to 3100' South)

CITY OF WABASHA, MN

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### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	14	\$7,700.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	14	\$4,900.00
60	2506.602	I & I BARRIER	EACH	\$450.00	14	\$6,300.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$18,900.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$25.00	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	2	\$500.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$500.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$148,269.23
CONSTRUCTION CONTINGENCY	\$14,826.92
TOTAL ESTIMATED CONSTRUCTION COSTS	\$163,096.16
DESIGN AND CONSTRUCTION ENGINEERING	\$29,357.31
ADMINISTRATION AND LEGAL	<u>\$8,154.81</u>
TOTAL ESTIMATED PROJECT COSTS	\$200,608.27



## PRELIMINARY COST ESTIMATE

12TH STREET EAST (Broadway Avenue to Franklin Avenue)

CITY OF WABASHA, MN

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#VALUE!

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$1,569.00	1.0	\$1,569.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	105.0	\$315.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	31.0	\$1,395.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	3,111.0	\$4,666.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	23.0	\$48.30
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	322.0	\$26,404.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	17.0	\$1,394.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	1,600.0	\$4,800.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$748.42	1.0	\$748.42
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	533.0	\$3,198.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$44,538.22

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

12TH STREET EAST (Broadway Avenue to Franklin Avenue)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	1	\$550.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	1	\$350.00
60	2506.602	I & I BARRIER	EACH	\$450.00	1	\$450.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$1,350.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$25.00	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	2	\$500.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$500.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$46,388.22
CONSTRUCTION CONTINGENCY	\$4,638.82
TOTAL ESTIMATED CONSTRUCTION COSTS	\$51,027.04
DESIGN AND CONSTRUCTION ENGINEERING	\$9,184.87
ADMINISTRATION AND LEGAL	\$2,551.35
TOTAL ESTIMATED PROJECT COSTS	\$62,763.26

## PRELIMINARY COST ESTIMATE

PIERCE AVE (12th Street East to 8th Street East)

CITY OF WABASHA, MN

H:\WABASHA\_CI\_MN\H19115905\2\_Preliminary\A\_Calculations\[2019 Street & Utility Improvements PCE 09-14-2018.xlsx]STREET 4

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$2,738.00	1.0	\$2,738.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	145.0	\$435.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	50.0	\$2,250.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	4,994.0	\$7,491.00
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	36.0	\$75.60
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	517.0	\$42,394.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	27.0	\$2,214.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	3,100.0	\$9,300.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$1,221.15	1.0	\$1,221.15
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	1,033.0	\$6,198.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$74,316.75

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

PIERCE AVE (12th Street East to 8th Street East)

CITY OF WABASHA, MN

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### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509 REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501 REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607 ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602 SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602 CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603 8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516 CASTING ASSEMBLY	EACH	\$550.00	4	\$2,200.00
59	2506.522 ADJUST FRAME & RING CASTING	EACH	\$350.00	4	\$1,400.00
60	2506.602 I & I BARRIER	EACH	\$450.00	4	\$1,800.00
61	2506.603 CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS					\$5,400.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509 REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501 REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601 TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$62.50	1	\$0.00
65	2451.607 ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602 CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602 1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602 1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603 1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602 ADJUST GATE VALVE AND BOX	EACH	\$250.00	5	\$1,250.00
71	2504.602 HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602 6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602 10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603 6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603 10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608 WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS					\$1,250.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$80,966.75
CONSTRUCTION CONTINGENCY	\$8,096.68
TOTAL ESTIMATED CONSTRUCTION COSTS	\$89,063.43
DESIGN AND CONSTRUCTION ENGINEERING	\$16,031.42
ADMINISTRATION AND LEGAL	\$4,453.17
TOTAL ESTIMATED PROJECT COSTS	\$109,548.02

## PRELIMINARY COST ESTIMATE

9TH STREET EAST (Broadway Avenue to Hiawatha Drive East)

CITY OF WABASHA, MN

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### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$2,525.00	1.0	\$2,525.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	150.0	\$450.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	45.0	\$2,025.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	4,500.0	\$6,750.00
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	33.0	\$69.30
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	466.0	\$38,212.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	25.0	\$2,050.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	2,700.0	\$8,100.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$1,099.13	1.0	\$1,099.13
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	900.0	\$5,400.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$66,680.43

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

9TH STREET EAST (Broadway Avenue to Hiawatha Drive East)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509 REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501 REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607 ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602 SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602 CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603 8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516 CASTING ASSEMBLY	EACH	\$550.00	5	\$2,750.00
59	2506.522 ADJUST FRAME & RING CASTING	EACH	\$350.00	5	\$1,750.00
60	2506.602 I & I BARRIER	EACH	\$450.00	5	\$2,250.00
61	2506.603 CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
<b>TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS</b>					<b>\$6,750.00</b>

### WATER MAIN IMPROVEMENTS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509 REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501 REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601 TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$62.50	1	\$0.00
65	2451.607 ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602 CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602 1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602 1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603 1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602 ADJUST GATE VALVE AND BOX	EACH	\$250.00	5	\$1,250.00
71	2504.602 HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602 6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602 10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603 6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603 10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608 WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
<b>TOTAL ESTIMATED WATER MAIN IMPROVEMENTS</b>					<b>\$1,250.00</b>

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	<b>\$74,680.43</b>
CONSTRUCTION CONTINGENCY	<b>\$7,468.04</b>
TOTAL ESTIMATED CONSTRUCTION COSTS	<b>\$82,148.47</b>
DESIGN AND CONSTRUCTION ENGINEERING	<b>\$14,786.72</b>
ADMINISTRATION AND LEGAL	<b><u>\$4,107.42</u></b>
TOTAL ESTIMATED PROJECT COSTS	<b>\$101,042.62</b>

## PRELIMINARY COST ESTIMATE

MILLIGAN AVENUE (9th Street East to Market Street East)

CITY OF WABASHA, MN

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### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$2,049.00	1.0	\$2,049.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	120.0	\$360.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	38.0	\$1,710.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	3,833.0	\$5,749.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	28.0	\$58.80
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	397.0	\$32,554.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	21.0	\$1,722.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	2,300.0	\$6,900.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$935.13	1.0	\$935.13
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	767.0	\$4,602.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$56,640.43

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00



## PRELIMINARY COST ESTIMATE

MILLIGAN AVENUE (9th Street East to Market Street East)

CITY OF WABASHA, MN

H:\WABASHA\_CI\_MN\H19115905\2\_Preliminary\A\_Calculations\[2019 Street & Utility Improvements PCE 09-14-2018.xlsx]STREET 6

#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	2	\$1,100.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	2	\$700.00
60	2506.602	I & I BARRIER	EACH	\$450.00	2	\$900.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$2,700.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$62.50	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	5	\$1,250.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$1,250.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$60,590.43
CONSTRUCTION CONTINGENCY	\$6,059.04
TOTAL ESTIMATED CONSTRUCTION COSTS	\$66,649.47
DESIGN AND CONSTRUCTION ENGINEERING	\$11,996.90
ADMINISTRATION AND LEGAL	\$3,332.47
TOTAL ESTIMATED PROJECT COSTS	\$81,978.85

## PRELIMINARY COST ESTIMATE

MARKET STREET EAST (Milligan Avenue to 2nd Street East)

CITY OF WABASHA, MN

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#VALUE!

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$792.00	1.0	\$792.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	90.0	\$270.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	15.0	\$675.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	1,500.0	\$2,250.00
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	11.0	\$23.10
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	155.0	\$12,710.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	8.0	\$656.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	600.0	\$1,800.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$355.68	1.0	\$355.68
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	200.0	\$1,200.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$20,731.78

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

MARKET STREET EAST (Milligan Avenue to 2nd Street East)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	2	\$1,100.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	2	\$700.00
60	2506.602	I & I BARRIER	EACH	\$450.00	2	\$900.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$2,700.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$0.00	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	0	\$0.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$0.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$23,431.78
CONSTRUCTION CONTINGENCY	\$2,343.18
TOTAL ESTIMATED CONSTRUCTION COSTS	\$25,774.96
DESIGN AND CONSTRUCTION ENGINEERING	\$4,639.49
ADMINISTRATION AND LEGAL	\$1,288.75
TOTAL ESTIMATED PROJECT COSTS	\$31,703.20

## PRELIMINARY COST ESTIMATE

JEFFERSON AVENUE (3rd Street East to 2nd Street East)

CITY OF WABASHA, MN

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#VALUE!

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$665.00	1.0	\$665.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	60.0	\$180.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	13.0	\$585.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	1,333.0	\$1,999.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	10.0	\$21.00
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	138.0	\$11,316.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	7.0	\$574.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	800.0	\$2,400.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$325.55	1.0	\$325.55
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	267.0	\$1,602.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$19,668.05

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

JEFFERSON AVENUE (3rd Street East to 2nd Street East)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0	\$0.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0	\$0.00
60	2506.602	I & I BARRIER	EACH	\$450.00	0	\$0.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$0.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$0.00	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	0	\$0.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$0.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$19,668.05
CONSTRUCTION CONTINGENCY	\$1,966.81
TOTAL ESTIMATED CONSTRUCTION COSTS	\$21,634.86
DESIGN AND CONSTRUCTION ENGINEERING	\$3,894.27
ADMINISTRATION AND LEGAL	<u>\$1,081.74</u>
TOTAL ESTIMATED PROJECT COSTS	\$26,610.87

## PRELIMINARY COST ESTIMATE

FRANKLIN AVENUE (2nd Street East to Main Street East)

CITY OF WABASHA, MN

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### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$683.00	1.0	\$683.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	60.0	\$180.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	13.0	\$585.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	1,333.0	\$1,999.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	10.0	\$21.00
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	138.0	\$11,316.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	7.0	\$574.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	800.0	\$2,400.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$325.55	1.0	\$325.55
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	267.0	\$1,602.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$19,686.05

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

FRANKLIN AVENUE (2nd Street East to Main Street East)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0	\$0.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0	\$0.00
60	2506.602	I & I BARRIER	EACH	\$450.00	0	\$0.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$0.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$25.00	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	2	\$500.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$500.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$20,186.05
CONSTRUCTION CONTINGENCY	\$2,018.61
TOTAL ESTIMATED CONSTRUCTION COSTS	\$22,204.66
DESIGN AND CONSTRUCTION ENGINEERING	\$3,996.84
ADMINISTRATION AND LEGAL	<u>\$1,110.23</u>
TOTAL ESTIMATED PROJECT COSTS	\$27,311.73

## PRELIMINARY COST ESTIMATE

JEFFERSON AVENUE (10th Street East to Market Street East)

CITY OF WABASHA, MN

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### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$2,781.00	1.0	\$2,781.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	150.0	\$450.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	48.0	\$2,160.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	4,833.0	\$7,249.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	35.0	\$73.50
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	500.0	\$41,000.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	26.0	\$2,132.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	2,900.0	\$8,700.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$1,177.34	1.0	\$1,177.34
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	967.0	\$5,802.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$71,525.34

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00



## PRELIMINARY COST ESTIMATE

JEFFERSON AVENUE (10th Street East to Market Street East)

CITY OF WABASHA, MN

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### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	7	\$3,850.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	7	\$2,450.00
60	2506.602	I & I BARRIER	EACH	\$450.00	7	\$3,150.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$9,450.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$62.50	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	5	\$1,250.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$1,250.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$82,225.34
CONSTRUCTION CONTINGENCY	\$8,222.53
TOTAL ESTIMATED CONSTRUCTION COSTS	\$90,447.87
DESIGN AND CONSTRUCTION ENGINEERING	\$16,280.62
ADMINISTRATION AND LEGAL	\$4,522.39
TOTAL ESTIMATED PROJECT COSTS	\$111,250.89

## PRELIMINARY COST ESTIMATE

ARCH AVENUE (Hiawatha Drive West to 7th Street West)

CITY OF WABASHA, MN

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#VALUE!

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$965.00	1.0	\$965.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	90.0	\$270.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	0.0	\$0.00
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	18.0	\$810.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	1,833.0	\$2,749.50
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	13.0	\$27.30
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	190.0	\$15,580.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	10.0	\$820.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	0.0	\$0.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	1,100.0	\$3,300.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$449.18	1.0	\$449.18
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	367.0	\$2,202.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$27,172.98

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$0.00

## PRELIMINARY COST ESTIMATE

ARCH AVENUE (Hiawatha Drive West to 7th Street West)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509 REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501 REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607 ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602 SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602 CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603 8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516 CASTING ASSEMBLY	EACH	\$550.00	1	\$550.00
59	2506.522 ADJUST FRAME & RING CASTING	EACH	\$350.00	1	\$350.00
60	2506.602 I & I BARRIER	EACH	\$450.00	1	\$450.00
61	2506.603 CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
<b>TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS</b>					<b>\$1,350.00</b>

### WATER MAIN IMPROVEMENTS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509 REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501 REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601 TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$0.00	1	\$0.00
65	2451.607 ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602 CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602 1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602 1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603 1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602 ADJUST GATE VALVE AND BOX	EACH	\$250.00	0	\$0.00
71	2504.602 HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602 6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602 10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603 6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603 10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608 WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
<b>TOTAL ESTIMATED WATER MAIN IMPROVEMENTS</b>					<b>\$0.00</b>

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$28,522.98
CONSTRUCTION CONTINGENCY	\$2,852.30
TOTAL ESTIMATED CONSTRUCTION COSTS	\$31,375.27
DESIGN AND CONSTRUCTION ENGINEERING	\$5,647.55
ADMINISTRATION AND LEGAL	<u>\$1,568.76</u>
TOTAL ESTIMATED PROJECT COSTS	\$38,591.59

## PRELIMINARY COST ESTIMATE

10TH STREET WEST (Shields Avenue to 500' South)

CITY OF WABASHA, MN

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#VALUE!

### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$2,515.00	1.0	\$2,515.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	0.0	\$0.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	35.0	\$105.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	0.0	\$0.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	0.0	\$0.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	0.0	\$0.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	0.0	\$0.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	61.7	\$1,913.58
13	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	19.0	\$855.00
14	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	1,944.0	\$2,916.00
15	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	14.0	\$29.40
17	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	201.0	\$16,482.00
18	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	11.0	\$902.00
19	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	0.0	\$0.00
20	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
21	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	0.0	\$0.00
22	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	1,000.0	\$15,000.00
23	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	0.0	\$0.00
24	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$810.02	1.0	\$810.02
25	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	2.0	\$300.00
26	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	333.0	\$1,998.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$43,826.00

### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
32	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
33	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
34	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
35	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
36	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
37	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	500.0	\$17,500.00
38	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
39	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
40	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	0.0	\$0.00
41	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
42	2506.516	CASTING ASSEMBLY	EACH	\$550.00	4.0	\$2,200.00
43	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	4.0	\$1,400.00
44	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
45	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
46	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
47	2501.515	24" RC PIPE APRON	EACH	\$900.00	1.0	\$900.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	8.0	\$2,400.00
49	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	16.0	\$4,800.00
50	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
51	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$29,200.00

## PRELIMINARY COST ESTIMATE

10TH STREET WEST (Shields Avenue to 500' South)

CITY OF WABASHA, MN

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#VALUE!

### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
52	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
53	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
54	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
55	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
56	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
57	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
58	2506.516	CASTING ASSEMBLY	EACH	\$550.00	1	\$550.00
59	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	1	\$350.00
60	2506.602	I & I BARRIER	EACH	\$450.00	1	\$450.00
61	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$1,350.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
62	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
63	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
64	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$0.00	1	\$0.00
65	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
66	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
67	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
68	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
69	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
70	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	0	\$0.00
71	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
72	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
73	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
74	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
75	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
76	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$0.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$74,376.00
CONSTRUCTION CONTINGENCY	\$7,437.60
TOTAL ESTIMATED CONSTRUCTION COSTS	\$81,813.60
DESIGN AND CONSTRUCTION ENGINEERING	\$14,726.45
ADMINISTRATION AND LEGAL	\$4,090.68
TOTAL ESTIMATED PROJECT COSTS	\$100,630.73

## PRELIMINARY COST ESTIMATE

### ALLEGHANY AVENUE & 8TH STREET WEST CITY OF WABASHA, MN

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#### STREET IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
1	2021.501	MOBILIZATION (3.5% OF TOTAL PROJECT COST)	LUMP SUM	\$5,765.00	1.0	\$5,765.00
2	2101.502	CLEARING	EACH	\$450.00	0.0	\$0.00
3	2101.507	GRUBBING	EACH	\$450.00	0.0	\$0.00
4	2104.501	REMOVE CURB AND GUTTER	LIN FT	\$3.00	0.0	\$0.00
5	2104.505	REMOVE DRIVEWAY PAVEMENT	SQ YD	\$6.50	90.0	\$585.00
6	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	56.0	\$168.00
7	2104.607	SALVAGE AND HAUL AGGREGATE BASE	CU YD	\$15.00	207.0	\$3,105.00
8	2105.501	COMMON EXCAVATION	CU YD	\$11.00	100.0	\$1,100.00
9	2105.507	SUBGRADE EXCAVATION	CU YD	\$11.00	10.0	\$110.00
10	2105.522	STABILIZING AGGREGATE (CV)	CU YD	\$35.00	10.0	\$350.00
11	2105.522	SELECT GRANULAR BORROW MOD (CV)	CU YD	\$16.00	0.0	\$0.00
12	2105.523	COMMON BORROW (LV)	CU YD	\$15.00	622.0	\$9,330.00
13	2211.501	AGGREGATE BASE CLASS 5	CU YD	\$31.00	62.0	\$1,922.00
14	2231.604	BITUMINOUS PATCH SPECIAL	SQ YD	\$45.00	18.0	\$810.00
15	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$1.50	0.0	\$0.00
16	2331.604	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$2.50	0.0	\$0.00
17	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.10	28.0	\$58.80
18	2360.501	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$82.00	403.0	\$33,246.00
19	2360.601	TYPE SP 9.5 LEVELING COURSE MIX (2,B)	TON	\$82.00	0.0	\$0.00
20	2331.604	BITUMINOUS PAVEMENT RECLAMATION (P)	SQ YD	\$2.60	1,800.0	\$4,680.00
21	2411.618	MODULAR BLOCK RETAINING WALL	SQ FT	\$45.00	0.0	\$0.00
22	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$55.00	90.0	\$4,950.00
23	2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	\$15.00	300.0	\$4,500.00
24	2535.501	BITUMINOUS CURB	LIN FT	\$3.00	0.0	\$0.00
25	2563.601	TRAFFIC CONTROL (1.15% OF STREET COST)	LUMP SUM	\$3,111.78	1.0	\$3,111.78
26	2573.530	STORM DRAIN INLET PROTECTION	EACH	\$150.00	0.0	\$0.00
27	2575.525	COMMON TOPSOIL BORROW	CU YD	\$20.00	96.0	\$1,920.00
28	2575.605	SODDING, TYPE LAWN	SQ YD	\$6.00	1,260.0	\$7,560.00
TOTAL ESTIMATED STREET IMPROVEMENTS						\$164,465.78

#### STORM SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
29	2104.501	REMOVE STORM SEWER PIPE	LIN FT	\$10.00	0.0	\$0.00
30	2104.509	REMOVE MANHOLE	EACH	\$375.00	0.0	\$0.00
31	5104.509	REMOVE CATCH BASIN	EACH	\$350.00	0.0	\$0.00
32	2502.541	6" PERFORATED PVC PIPE DRAIN	LIN FT	\$12.00	0.0	\$0.00
33	2502.573	SUMP PUMP SERVICE	EACH	\$220.00	0.0	\$0.00
34	2503.511	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$35.00	0.0	\$0.00
35	2504.511	15" RC PIPE SEWER DES 3006 CL III	LIN FT	\$40.00	0.0	\$0.00
36	2503.511	18" RC PIPE SEWER DES 3006 CL III	LIN FT	\$42.00	0.0	\$0.00
37	2503.511	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$48.00	50.0	\$2,400.00
38	2503.511	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$54.00	0.0	\$0.00
39	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0.0	\$0.00
40	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0.0	\$0.00
41	2511.501	RIPRAP	CU YD	\$80.00	0.0	\$0.00
42	2501.515	15" RC PIPE APRON	EACH	\$800.00	0.0	\$0.00
43	2501.515	18" RC PIPE APRON	EACH	\$850.00	0.0	\$0.00
44	2501.515	24" RC PIPE APRON	EACH	\$900.00	4.0	\$3,600.00
45	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 2'X3'	LIN FT	\$300.00	0.0	\$0.00
46	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 48" DIA	LIN FT	\$300.00	0.0	\$0.00
47	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 54" DIA	LIN FT	\$350.00	0.0	\$0.00
48	2506.501	CONSTRUCT DRAINAGE STRUCTURE, 60" DIA	LIN FT	\$425.00	0.0	\$0.00
TOTAL ESTIMATED STORM SEWER IMPROVEMENTS						\$6,000.00

## PRELIMINARY COST ESTIMATE

ALLEGHANY AVENUE & 8TH STREET WEST  
CITY OF WABASHA, MN

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### SANITARY SEWER IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
49	2104.509	REMOVE MANHOLE	EACH	\$375.00	0	\$0.00
50	2104.501	REMOVE SANITARY SEWER PIPE	LIN FT	\$3.00	0	\$0.00
51	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
52	2503.602	SANITARY SEWER SERVICE	LIN FT	\$45.00	0	\$0.00
53	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$800.00	0	\$0.00
54	2503.603	8" PIPE SEWER	LIN FT	\$40.00	0	\$0.00
55	2506.516	CASTING ASSEMBLY	EACH	\$550.00	0	\$0.00
56	2506.522	ADJUST FRAME & RING CASTING	EACH	\$350.00	0	\$0.00
57	2506.602	I & I BARRIER	EACH	\$450.00	0	\$0.00
58	2506.603	CONSTRUCT MANHOLE (SANITARY)	LIN FT	\$245.00	0	\$0.00
TOTAL ESTIMATED SANITARY SEWER IMPROVEMENTS						\$0.00

### WATER MAIN IMPROVEMENTS

ITEM NUMBER		ITEM DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	AMOUNT
59	2104.509	REMOVE HYDRANT	EACH	\$300.00	0	\$0.00
60	2104.501	REMOVE WATER MAIN	LIN FT	\$5.00	0	\$0.00
61	2504.601	TEMPORARY WATER SYSTEM (5% OF WATER)	LUMP SUM	\$0.00	0	\$0.00
62	2451.607	ROCK EXCAVATION IN TRENCH (12% OF PIPE)	CU YD	\$50.00	0	\$0.00
63	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$1,250.00	0	\$0.00
64	2504.602	1" CORPORATION STOP	EACH	\$300.00	0	\$0.00
65	2504.602	1" CURB STOP AND BOX	EACH	\$375.00	0	\$0.00
66	2504.603	1" TYPE K COPPER PIPE	LIN FT	\$40.00	0	\$0.00
67	2504.602	ADJUST GATE VALVE AND BOX	EACH	\$250.00	0	\$0.00
67	2504.602	HYDRANT	EACH	\$3,500.00	0	\$0.00
68	2504.602	6" GATE VALVE AND BOX	EACH	\$1,400.00	0	\$0.00
69	2504.602	10" GATE VALVE AND BOX	EACH	\$2,300.00	0	\$0.00
70	2504.603	6" WATER MAIN	LIN FT	\$46.00	0	\$0.00
71	2504.603	10" WATER MAIN	LIN FT	\$48.00	0	\$0.00
72	2504.608	WATER MAIN FITTINGS	POUND	\$8.50	0	\$0.00
TOTAL ESTIMATED WATER MAIN IMPROVEMENTS						\$0.00

### SUMMARY OF IMPROVEMENTS

CONSTRUCTION SUBTOTAL	\$170,465.78
CONSTRUCTION CONTINGENCY	\$17,046.58
<b>TOTAL ESTIMATED CONSTRUCTION COSTS</b>	<b>\$187,512.36</b>
DESIGN AND CONSTRUCTION ENGINEERING	\$33,752.22
ADMINISTRATION AND LEGAL	<u>\$9,375.62</u>
<b>TOTAL ESTIMATED PROJECT COSTS</b>	<b>\$230,640.20</b>

## Appendix C: Preliminary Assessment Roll



Preliminary Assessment Roll  
2019 Street Improvement Project  
City of Wabasha, Minnesota  
BMI Project No. H19.115905

10/8/2018

Line	Parcel ID	Owner	Property Address	Owner Address	Non Residential Frontage	ERU for Street Assessment	Street Assessment
<b>2nd Street East</b>							
1	R27.00904.00	JOHN G THEISMANN	305 2ND ST E WABASHA 55981	PO BOX 225 WABASHA MN 55981-0225		1	\$1,385.41
2	R27.00907.00	RALPH EVERS	330 2ND ST E WABASHA 55981	330 2ND ST E WABASHA MN 55981-1445		1	\$1,385.41
3	R27.00840.00	RICHARD E & PATRICIA ELWORTHY	406 2ND ST E WABASHA 55981	406 2ND ST E WABASHA MN 55981-1448		1	\$1,385.41
4	R27.00836.03	CITY OF WABASHA	424 2ND ST E WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	179	1.5	\$2,078.11
<b>3rd Street East</b>							
5	R27.00916.00	AQUILA WABASHA PROPERTIES LLC	329 3RD ST E WABASHA 55981	225 LAWRENCE BLVD W UNIT 202 WABASHA MN 55981-1910		1	\$1,385.41
6	R27.00917.00	JAMES P DENNIS	405 3RD ST E WABASHA 55981	405 E 3RD ST WABASHA MN 55981-1405		1	\$1,385.41
<b>7th Street West</b>							
7	R27.00980.00	BRUCE A & BEVERLY A BAKER	411 7TH ST W WABASHA 55981	62739 145TH AVE KELLOGG MN 55945-4506	78	1	\$1,385.41
8	R27.00992.03	JOEL D MONA	517 7TH ST W WABASHA 55981	517 7TH ST W WABASHA MN 55981-1315		1	\$1,385.41
<b>8th Street East</b>							
9	R27.00698.00	ADAM C & TASHA R BURNS	529 8TH ST E WABASHA 55981	529 8TH ST E WABASHA MN 55981-1601		1	\$1,385.41
10	R27.00730.00	DANIEL E & JAYNE M DICK	530 8TH ST E WABASHA 55981	530 8TH ST E WABASHA MN 55981-1602		1	\$1,385.41
11	R27.00701.00	ROBERT & DIANE SCHUTH	605 8TH ST E WABASHA 55981	605 8TH ST E WABASHA MN 55981-1603		1	\$1,385.41
12	R27.00723.00	PATRICIA D HERATY	630 8TH ST E WABASHA 55981	630 8TH ST E WABASHA MN 55981-1604		1	\$1,385.41
<b>8th Street West</b>							
13	R27.00760.00	ALVA & DONNA MAE SCHWIRTZ	123 8TH ST W WABASHA 55981	1111 JEFFERSON AVE WABASHA MN 55981-1566		1	\$1,385.41
14	R27.00661.00	LDG WABASHA MN LLC	124 8TH ST W WABASHA 55981	345 PARK AVE FL 8 NEW YORK NY 10154-0017	300	2.5	\$3,463.52
15	R27.00763.03	CITY OF WABASHA	223 8TH ST W WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	36	1	\$1,385.41
16	R27.00995.00	JAY A ANDERSON	523 8TH ST W WABASHA 55981	130 3RD ST W WABASHA MN 55981-1202	80	1	\$1,385.41
<b>9th Street East</b>							
17	R27.00749.00	KEITH H & LEANNE K NOVAK	329 9TH ST E WABASHA 55981	329 9TH ST E WABASHA MN 55981-1513		1	\$1,385.41
18	R27.00775.00	RICHARD J BREMER	330 9TH ST E WABASHA 55981	29393 714TH ST LAKE CITY MN 55041-3956		1	\$1,385.41
19	R27.00788.00	MITCHELL T ARENS	506 9TH ST E WABASHA 55981	506 9TH ST E WABASHA MN 55981-1607		1	\$1,385.41
20	R27.00792.12	PAUL M PFELSTICKER	606 9TH ST E WABASHA 55981	606 9TH ST E WABASHA MN 55981-1609		1	\$1,385.41
21	R27.00727.03	KENNETH G WIEMANN	611 9TH ST E WABASHA 55981	611 9TH ST E WABASHA MN 55981-1608		1	\$1,385.41
22	R27.00727.06	FRANCIS & KAREN O'FLAHERTY	623 9TH ST E WABASHA 55981	623 9TH ST E WABASHA MN 55981-1608		1	\$1,385.41
23	R27.00793.06	JOHN W & SHIRLEY WILLS	624 9TH ST E WABASHA 55981	624 9TH ST E WABASHA MN 55981-1609		1	\$1,385.41
24	R27.00722.03	DENNIS & MARGARET SPEEDLING	711 9TH ST E WABASHA 55981	711 9TH ST E WABASHA MN 55981-1610		1	\$1,385.41
25	R27.00796.03	KEVIN T & PENNY K ZIEMANN	712 9TH ST E WABASHA 55981	712 9TH ST E WABASHA MN 55981-1611		1	\$1,385.41
26	R27.00722.09	DAVID C & CLAUDIA J SATHER	717 9TH ST E WABASHA 55981	717 9TH ST E WABASHA MN 55981-1610		1	\$1,385.41
27	R27.00796.09	JOHN & AGATHA HUBBARD	724 9TH ST E WABASHA 55981	724 9TH ST E WABASHA MN 55981-1611		1	\$1,385.41
28	R27.00722.00	DAVID E & MARCIA C MEYER	729 9TH ST E WABASHA 55981	729 9TH ST E WABASHA MN 55981-1610		1	\$1,385.41
29	R27.00798.00	DAVID E & MARCIA C MEYER	806 9TH ST E WABASHA 55981	729 9TH ST E WABASHA MN 55981-1610		1	\$1,385.41
30	R27.00797.03	DAVID E & MARCIA C MEYER	812 9TH ST E WABASHA 55981	729 9TH ST E WABASHA MN 55981-1610		1	\$1,385.41
<b>10th Street East</b>							
31	R27.00801.03	CONSTANCE GOSSE	630 10TH ST E WABASHA 55981	630 10TH ST E WABASHA MN 55981-1708		1	\$1,385.41
32	R27.00800.00	OSCAR E HALLQUIST	706 10TH ST E WABASHA 55981	706 10TH ST E WABASHA MN 55981-1710		1	\$1,385.41
<b>10th Street West</b>							
33	R27.00581.00	PHILIP C CARRELS	605 10TH ST W WABASHA 55981	617 10TH ST W WABASHA MN 55981-1101		1	\$1,385.41
34	R27.00579.00	CITY OF WABASHA	606 10TH ST W WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	300	2.5	\$3,463.52
35	R27.00581.03	PHILIP C & PATRICIA CARRELS	617 10TH ST W WABASHA 55981	617 10TH ST W WABASHA MN 55981-1101		1	\$1,385.41
36	R27.00582.00	MICHAEL & LINDA WALLERICH	629 10TH ST W WABASHA 55981	629 10TH ST W WABASHA MN 55981-1101		1	\$1,385.41
37	R27.00596.03	ROMELLE A VINCEK	711 10TH ST W WABASHA 55981	711 10TH ST W WABASHA MN 55981-1103		1	\$1,385.41
38	R27.00582.06	DOROTHY KENNEBECK	713 10TH ST W WABASHA 55981	713 10TH ST W WABASHA MN 55981-1103		1	\$1,385.41
<b>11th Street West</b>							
39	R27.00802.00	SE MN MULTI-COUNTY HRA	605 11TH ST E WABASHA 55981	134 2ND ST E WABASHA MN 55981-1440	142	1.25	\$1,731.76
<b>12th Street East</b>							
40	R27.00834.00	STANLEY H & CAROL L GORDON	206 12TH ST E WABASHA 55981	535 6TH ST W WABASHA MN 55981-1313		1	\$1,385.41
41	R27.00825.15	KARA B TOAL	429 12TH ST E WABASHA 55981	429 12TH ST E WABASHA MN 55981-1570		1	\$1,385.41
42	R27.00833.00	KYE S LACKEY	430 12TH ST E WABASHA 55981	430 12TH ST E WABASHA MN 55981-		1	\$1,385.41
43	R27.00829.06	GREAT RIVER HOMES INC	623 12TH ST E WABASHA 55981	611 BROADWAY AVE APT 105 WABASHA MN 55981-1990	142	1.25	\$1,731.76
44	R27.00831.06	JOSHUA C & SARAH E LEE	705 12TH ST E WABASHA 55981	705 12TH ST E WABASHA MN 55981-1747		1	\$1,385.41

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Line	Parcel ID	Owner	Property Address	Owner Address	Non Residential Frontage	ERU for Street Assessment	Street Assessment
<u>Angelique Avenue</u>							
45	R27.00960.12	VIVA M FLEMING	110 ANGELIQUE AVE WABASHA 55981	110 ANGELIQUE AVE WABASHA MN 55981-1720		1	\$1,385.41
<u>Arch Avenue</u>							
46	R27.00985.03	BRUCE A & BEVERLY A BAKER	729 ARCH AVE WABASHA 55981	62739 145TH AVE KELLOGG MN 55945-4506	210	1.75	\$2,424.46
47	R27.00985.00	R M J OF WINONA LLP	735 ARCH AVE WABASHA 55981	1522 W 10TH ST WINONA MN 55987-2435	81	1	\$1,385.41
48	R27.00993.03	DENNIS J WILSON	736 ARCH AVE WABASHA 55981	736 ARCH AVE WABASHA MN 55981-1319	61	1	\$1,385.41
<u>Augustin Avenue</u>							
49	R27.00938.03	ROBERT J & LINDA M MANN	100 AUGUSTIN AVE WABASHA 55981	100 AUGUSTIN AVE WABASHA MN 55981-1762		1	\$1,385.41
<u>Broadway Avenue</u>							
50	R27.00620.00	MITTEL SCHULE INC	611 BROADWAY AVE WABASHA 55981	PO BOX 92 WABASHA MN 55981-0092	380	3.25	\$4,502.58
51	R27.00735.00	PATRICIA L MARVIN	835 BROADWAY AVE WABASHA 55981	6753 N ELMAN ST SAN DIEGO CA 92111-6535		1	\$1,385.41
<u>Dugan Avenue</u>							
52	R27.00956.09	MARK A & ALICE T JARSTAD	201 DUGAN AVE WABASHA 55981	201 DUGAN AVE WABASHA MN 55981-1728		1	\$1,385.41
53	R27.00084.00	WILLIAM M FITZGERALD	302 DUGAN AVE WABASHA 55981	16489 S COUNTY ROAD 24 WABASHA MN 55981-7655	906	7.5	\$10,390.56
<u>Hiawatha Drive West</u>							
54	R27.00659.00	CITY OF WABASHA	113 HIAWATHA DR W WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	37	1	\$1,385.41
55	R27.00657.00	WABASHA PROPERTIES LLC	221 HIAWATHA DR W WABASHA 55981	221 HIAWATHA DR W WABASHA MN 55981-1362	224	1.75	\$2,424.46
56	R27.00629.00	DENNIS L & SANDRA K CULLIP	329 HIAWATHA DR E WABASHA 55981	8221 GREER AVE NW MAPLE LAKE MN 55358-2456	92	1	\$1,385.41
57	R27.00687.00	GLEN M ROBECK	406 HIAWATHA DR E WABASHA 55981	406 HIAWATHA DR E WABASHA MN 55981-1556		1	\$1,385.41
58	R27.00694.00	THOMAS H GOSSE	536 HIAWATHA DR E WABASHA 55981	511 2ND ST E WABASHA MN 55981-1450		1	\$1,385.41
59	R27.00703.00	CITY OF WABASHA	600 HIAWATHA DR E WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	133	1	\$1,385.41
60	R27.00717.00	SALLY ANN WISE	824 HIAWATHA DR E WABASHA 55981	824 HIAWATHA DR E WABASHA MN 55981-1625		1	\$1,385.41
<u>Jefferson Avenue</u>							
61	R27.00621.00	COUNTY OF WABASHA	625 JEFFERSON AVE WABASHA 55981	625 JEFFERSON AVE WABASHA MN 55981-0133	300	2.5	\$3,463.52
62	R27.00628.00	JOHNSON & SCOFIELD INC	626 JEFFERSON AVE WABASHA 55981	1203 MAIN ST RED WING MN 55066-2175	50	1	\$1,385.41
63	R27.00678.00	AARON J & ELIZABETH A LAROCQUE	712 JEFFERSON AVE WABASHA 55981	68064 COUNTY ROAD 76 WABASHA MN 55981-7639		1	\$1,385.41
64	R27.00688.00	CAROL I SEVERSON	717 JEFFERSON AVE WABASHA 55981	717 JEFFERSON AVE WABASHA MN 55981-1558		1	\$1,385.41
65	R27.00692.00	LOECHLER RENTAL PROPERTIES LLC	735 JEFFERSON AVE WABASHA 55981	67059 COUNTY ROAD 76 WABASHA MN 55981-7559		1	\$1,385.41
66	R27.00685.00	SUSAN E CROSBIE SURADEJVIBUL	736 JEFFERSON AVE WABASHA 55981	512 LAWRENCE BLVD E WABASHA MN 55981-1419		1	\$1,385.41
67	R27.00736.00	JAMES & THERESA BALOW	805 JEFFERSON AVE WABASHA 55981	805 JEFFERSON WABASHA MN 55981-1560		1	\$1,385.41
68	R27.00742.00	NEUMANN FAMILY TRUST	806 JEFFERSON AVE WABASHA 55981	220 BRIDGEWATER CIR FREDERICKSBURG VA 22406-8410		1	\$1,385.41
69	R27.00737.00	SCHADE FAMILY	817 JEFFERSON AVE WABASHA 55981	817 JEFFERSON AVE WABASHA MN 55981-1560		1	\$1,385.41
70	R27.00748.00	ASHLEY RYDMAN	824 JEFFERSON AVE WABASHA 55981	824 JEFFERSON AVE WABASHA MN 55981-1561		1	\$1,385.41
71	R27.00741.03	TONI M MCMILLIN	833 JEFFERSON AVE WABASHA 55981	833 JEFFERSON AVE WABASHA MN 55981-1560		1	\$1,385.41
72	R27.00741.00	ASHLEY R GORE	835 JEFFERSON AVE WABASHA 55981	835 JEFFERSON AVE WABASHA MN 55981-1560		1	\$1,385.41
73	R27.00783.00	JAMES V & MARGIE A MILLER	907 JEFFERSON AVE WABASHA 55981	907 JEFFERSON AVE WABASHA MN 55981-1562		1	\$1,385.41
74	R27.00785.00	GREGORY S & SHERRIE M KJESETH	917 JEFFERSON AVE WABASHA 55981	917 JEFFERSON AVE WABASHA MN 55981-1562		1	\$1,385.41
75	R27.00786.00	GLENN M & JACQUELINE A ZELL	923 JEFFERSON AVE WABASHA 55981	923 JEFFERSON AVE WABASHA MN 55981-1562		1	\$1,385.41
76	R27.00781.03	MARIETTA KOHN	924 JEFFERSON AVE WABASHA 55981	924 JEFFERSON AVE WABASHA MN 55981-1563		1	\$1,385.41
77	R27.00787.00	LAWRENCE R THEISMANN	935 JEFFERSON AVE WABASHA 55981	935 JEFFERSON AVE WABASHA MN 55981-1562		1	\$1,385.41
78	R27.00781.00	JEROME F & LINDA A MCMILLIN	936 JEFFERSON AVE WABASHA 55981	936 JEFFERSON AVE WABASHA MN 55981-1563		1	\$1,385.41
79	R27.00825.03	ALVA & DONNA MAE SCHWIRTZ	1111 JEFFERSON AVE WABASHA 55981	1111 JEFFERSON AVE WABASHA MN 55981-1566		1	\$1,385.41
80	R27.00825.02	LYNN R & JEAN E MUSTAIN	1136 JEFFERSON AVE WABASHA 55981	1136 JEFFERSON AVE WABASHA MN 55981-1567		1	\$1,385.41
<u>Main Street East</u>							
81	R27.00926.00	SCOTT H & EMILY DURAND	230 MAIN ST E WABASHA 55981	230 MAIN ST E WABASHA MN 55981-1423		1	\$1,385.41
82	R27.00902.00	CEDAR PARK PROPERTIES LLC	306 MAIN ST E WABASHA 55981	PO BOX 330 TRIMONT MN 56176-0330		1	\$1,385.41
<u>Market Street East</u>							
83	R27.00622.00	DAVID J & PATTI J PUETZ	330 MARKET ST E WABASHA 55981	330 MARKET ST E WABASHA MN 55981-1434		1	\$1,385.41
84	R27.00614.00	THOMAS L & MARY R HART	612 MARKET ST E WABASHA 55981	612 MARKET ST E WABASHA MN 55981-1436		1	\$1,385.41
85	R27.00613.00	SETH HUNTOON	618 MARKET ST E WABASHA 55981	618 MARKET ST E WABASHA MN 55981-1436		1	\$1,385.41
86	R27.00612.00	KENNETH A & KRISTINE M KRUSE	626 MARKET ST E WABASHA 55981	626 MARKET ST E WABASHA MN 55981-1436		1	\$1,385.41
<u>Milligan Avenue</u>							
87	R27.00615.00	PETER & SHARON RIESTER	605 MILLIGAN AVE WABASHA 55981	65750 E COUNTY ROAD 30 WABASHA MN 55981-7546		1	\$1,385.41
88	R27.00696.00	NICHOLAS J MARX	718 MILLIGAN AVE WABASHA 55981	718 MILLIGAN AVE WABASHA MN 55981-1627		1	\$1,385.41

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89	R27.00725.03	BRUCE J KINLUND	805 MILLIGAN AVE WABASHA 55981	805 MILLIGAN AVE WABASHA MN 55981-1628		1	\$1,385.41
90	R27.00725.00	LEONARD & PATRICIA BREHMER	817 MILLIGAN AVE WABASHA 55981	817 MILLIGAN AVE WABASHA MN 55981-1628		1	\$1,385.41
91	R27.00733.00	MINNEHAHA TRUST AGREEMENT	830 MILLIGAN AVE WABASHA 55981	PO BOX 54 WABASHA MN 55981-0054		1	\$1,385.41
92	R27.00726.00	MICHAEL VINCEK	835 MILLIGAN AVE WABASHA 55981	835 MILLIGAN AVE WABASHA MN 55981-1628		1	\$1,385.41
93	R27.00734.00	DONALD W AITKEN	836 MILLIGAN AVE WABASHA 55981	525 N OAK ST LAKE CITY MN 55041-1346		1	\$1,385.41
94	R27.00789.00	ANTHONY K BREVIG	906 MILLIGAN AVE WABASHA 55981	906 MILLIGAN AVE WABASHA MN 55981-1631		1	\$1,385.41
			<b>Pembroke Avenue</b>				
95	R27.00761.00	BUSCH ASSOC LTD PARTNERSHIP	812 PEMBROKE AVE WABASHA 55981	600 LAWRENCE BLVD E WABASHA MN 55981-1415	120	1	\$1,385.41
			<b>Pierce Avenue</b>				
96	R27.00721.00	RONALD A CARLSON	805 PIERCE AVE WABASHA 55981	805 PIERCE AVE WABASHA MN 55981-1635		1	\$1,385.41
97	R27.00722.06	ANITA J HANSON SCHUTH	835 PIERCE AVE WABASHA 55981	PO BOX 230 WABASHA MN 55981-0230		1	\$1,385.41
98	R27.00727.00	FRANCIS R KLEIN	836 PIERCE AVE WABASHA 55981	15020 SW 13TH PL SUNRISE FL 33326-1918		1	\$1,385.41
99	R27.00793.00	MICHAEL J & SHAUNA R NOONAN	906 PIERCE AVE WABASHA 55981	906 PIERCE AVE WABASHA MN 55981-1638		1	\$1,385.41
100	R27.00794.00	LARRY J & DOREITA J REYNOLDS	911 PIERCE AVE WABASHA 55981	911 PIERCE AVE WABASHA MN 55981-1637		1	\$1,385.41
101	R27.00793.03	LEO & YVONNE MEYER	930 PIERCE AVE WABASHA 55981	930 PIERCE AVE WABASHA MN 55981-1638		1	\$1,385.41
102	R27.00795.00	AMY C QUADE	935 PIERCE AVE WABASHA 55981	935 PIERCE AVE WABASHA MN 55981-1637		1	\$1,385.41
103	R27.00829.00	EUGENE R & JOYCE M PASSE	1106 PIERCE AVE WABASHA 55981	1106 PIERCE AVE WABASHA MN 55981-1757		1	\$1,385.41
			<b>River Drive South</b>				
104	R27.01328.00	VICKY JOHNSON	1201 RIVER DR S WABASHA 55981	1201 RIVER DR S WABASHA MN 55981-1700		1	\$1,385.41
105	R27.01327.00	HOLGER J & LYNN A BAASCH	1203 RIVER DR S WABASHA 55981	1203 RIVER DR S WABASHA MN 55981-1700		1	\$1,385.41
106	R27.00935.06	THOMAS H GOSSE	1206 RIVER DR S WABASHA 55981	511 2ND ST E WABASHA MN 55981-1450		1	\$1,385.41
107	R27.01326.00	GREAT RIVER HOMES INC	1207 RIVER DR S WABASHA 55981	611 BROADWAY AVE APT 105 WABASHA MN 55981-1990		1	\$1,385.41
108	R27.00935.09	TROY & CHERYL ADAMS	1212 RIVER DR S WABASHA 55981	1212 RIVER DR S WABASHA MN 55981-1700		1	\$1,385.41
109	R27.01325.00	MARK J GOSSE	1213 RIVER DR S WABASHA 55981	1213 RIVER DR S WABASHA MN 55981-1700		1	\$1,385.41
110	R27.00935.03	JOHN A & PATRICIA L MEHREN	1218 RIVER DR S WABASHA 55981	1218 RIVER DR S WABASHA MN 55981-1700		1	\$1,385.41
111	R27.01324.00	BRADD J & SHARON BUSCH	1219 RIVER DR S WABASHA 55981	1219 RIVER DR S WABASHA MN 55981-1700		1	\$1,385.41
112	R27.01284.00	DALLIS D & JOANNE E FRANDSEN	1224 RIVER DR S WABASHA 55981	1224 RIVER DR S WABASHA MN 55981-1700		0.5	\$692.70
113	R27.01285.00	BERNICE C SUILMAN	1226 RIVER DR S WABASHA 55981	28793 WILDBERRY DR WINONA MN 55987-5039		0.5	\$692.70
114	R27.01082.00	MICHAEL J PALMERSHEIM	1301 RIVER DR S WABASHA 55981	1301 RIVER DR S WABASHA MN 55981-1753		1	\$1,385.41
115	R27.01287.00	EDWARD C & BEVERLY A RICE	1302 RIVER DR S WABASHA 55981	1302 RIVER DR S WABASHA MN 55981-1738		0.5	\$692.70
116	R27.01082.06	KENT H & KARLA S SCHEDLBAUER	1303 RIVER DR S WABASHA 55981	13791 GUILD AVE APPLE VALLEY MN 55124-7613		1	\$1,385.41
117	R27.01288.00	DANIEL G & DEE L MERTES	1304 RIVER DR S WABASHA 55981	1304 RIVER DR S WABASHA MN 55981-1738		0.5	\$692.70
118	R27.01084.00	DAVID & JEAN M GRABAU	1305 RIVER DR S WABASHA 55981	1305 RIVER DR S WABASHA MN 55981-1753		1	\$1,385.41
119	R27.01289.00	WALLACE E FREIHEIT	1306 RIVER DR S WABASHA 55981	1306 RIVER DR S WABASHA MN 55981-1738		0.5	\$692.70
120	R27.01085.00	BRIAN R SYLVESTER	1307 RIVER DR S WABASHA 55981	1307 RIVER DR S WABASHA MN 55981-1753		1	\$1,385.41
121	R27.01290.00	LEEAN B MOLIN	1308 RIVER DR S WABASHA 55981	1308 RIVER DR S WABASHA MN 55981-1738		0.5	\$692.70
122	R27.01086.00	JOHN M J & MARY C MATTISON	1309 RIVER DR S WABASHA 55981	1309 RIVER DR S WABASHA MN 55981-1753		1	\$1,385.41
123	R27.01103.00	VIRGIL F & LINDA L MAHLSTEDT	1310 RIVER DR S WABASHA 55981	1310 RIVER DR S WABASHA MN 55981-1738		1	\$1,385.41
124	R27.01087.00	DENNIS K & GAIL J SCHNEIDER	1311 RIVER DR S WABASHA 55981	1311 RIVER DR S WABASHA MN 55981-1753		1	\$1,385.41
125	R27.01088.00	THOMAS & WANDA GRAFF	1313 RIVER DR S WABASHA 55981	1313 RIVER DR S WABASHA MN 55981-1753		1	\$1,385.41
126	R27.01101.00	MANUEL F DEANGEL	1314 RIVER DR S WABASHA 55981	1314 RIVER DR S WABASHA MN 55981-1738		1	\$1,385.41
127	R27.01100.00	JENNIFER A ENDER	1400 RIVER DR S WABASHA 55981	1400 RIVER DR S WABASHA MN 55981-1763		1	\$1,385.41
128	R27.01098.00	ROBERT & CAROL SYLVESTER	1404 RIVER DR S WABASHA 55981	1404 RIVER DR S WABASHA MN 55981-1763		1	\$1,385.41
129	R27.00084.06	ALLEN G & BRENDA L NELSON	1405 RIVER DR S WABASHA 55981	1405 RIVER DR S WABASHA MN 55981-1764		1	\$1,385.41
130	R27.01097.00	MICHAEL H & CINDY M GOSSE	1406 RIVER DR S WABASHA 55981	1406 RIVER DR S WABASHA MN 55981-1763		1	\$1,385.41
131	R27.01607.00	LINDA S ODDEN	1407 RIVER DR S WABASHA 55981	1407 RIVER DR S WABASHA MN 55981-1764		1	\$1,385.41
132	R27.01095.00	CAROLYN A SCHUTH	1408 RIVER DR S WABASHA 55981	1408 RIVER DR S WABASHA MN 55981-1763		1	\$1,385.41
133	R27.01608.00	DENNIS L & JOYCE H FIEDLER	1409 RIVER DR S WABASHA 55981	15001 WYCHEWOOD RD MINNETONKA MN 55345-3664		1	\$1,385.41
134	R27.01091.00	TODD O & KATHRYN A SMITH	1413 RIVER DR S WABASHA 55981	1413 RIVER DR S WABASHA MN 55981-1764		1	\$1,385.41
135	R27.01094.00	GERALD M & LOIS LEISEN	1414 RIVER DR S WABASHA 55981	1414 RIVER DR S WABASHA MN 55981-1763		1	\$1,385.41
136	R27.01090.00	CAROL A PAGEL	1415 RIVER DR S WABASHA 55981	45771 CHIPPEWA TRAIL VINING MN 56588-9595		1	\$1,385.41
137	R27.01093.00	CITY OF WABASHA	1416 RIVER DR S WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	38	1	\$1,385.41
138	R27.01089.00	ROLLIN D HALL	1417 RIVER DR S WABASHA 55981	1417 RIVER DR S WABASHA MN 55981-1764		1	\$1,385.41
139	R27.01168.00	DANIEL R PRATT	1501 RIVER DR S WABASHA 55981	1501 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41

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140	R27.01167.00	LARRY R & JANE L GLANDER	1503 RIVER DR S WABASHA 55981	1503 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
141	R27.01166.00	JEFFREY A & KAREN M HANSEN	1505 RIVER DR S WABASHA 55981	1505 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
142	R27.01165.00	MATTHEW J & LEANNE MARX	1507 RIVER DR S WABASHA 55981	1507 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
143	R27.01164.00	KIRTH A & TONI I SMITH	1509 RIVER DR S WABASHA 55981	1509 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
144	R27.01163.00	PAULA VEER & J S DAMMANN	1511 RIVER DR S WABASHA 55981	1511 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
145	R27.01162.00	EUGENE L STROOT	1513 RIVER DR S WABASHA 55981	1513 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
146	R27.01161.00	TERENCE W & KATHLEEN S ARENS	1515 RIVER DR S WABASHA 55981	1515 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
147	R27.01160.00	KELLY D LINTON	1517 RIVER DR S WABASHA 55981	1517 RIVER DR S WABASHA MN 55981-1766		1	\$1,385.41
148	R27.01159.00	DOUGLAS H KENNEBECK	1519 RIVER DR S WABASHA 55981	1038 ASTON CIR BURNSVILLE MN 55337-6716		1	\$1,385.41
<b>Rustic Lane East</b>							
149	R27.00616.00	JOYCE L UNDERDAHL	605 RUSTIC LN E WABASHA 55981	605 RUSTIC LN E WABASHA MN 55981-1639		1	\$1,385.41
150	R27.00944.00	CEMETERY	1102 RUSTIC LN E WABASHA 55981	117 3RD ST W WABASHA MN 55981-1201	109	1	\$1,385.41
151	R27.01220.03	PAUL G & MARY E FLICEK	1209 RUSTIC LN E WABASHA 55981	1209 RUSTIC LN WABASHA MN 55981-1754		1	\$1,385.41
152	R27.00968.00	ST FELIX CHURCH	1210 RUSTIC LN E WABASHA 55981	117 3RD ST W WABASHA MN 55981-1201	281	2.25	\$3,117.17
153	R27.01222.00	PAUL M CUSHMAN	1211 RUSTIC LN E WABASHA 55981	1211 RUSTIC LN WABASHA MN 55981-1754		1	\$1,385.41
154	R27.00967.03	FREDRICK M & ALICE FAY PASSE	1212 RUSTIC LN E WABASHA 55981	1212 RUSTIC LN WABASHA MN 55981-1737		1	\$1,385.41
155	R27.01224.00	ROBERT G & PEGGY L PETERS	1215 RUSTIC LN E WABASHA 55981	6600 81ST ST W BURBANK IL 60459-1705		1	\$1,385.41
156	R27.01225.00	STEVEN P & JODELL SCHURHAMMER	1217 RUSTIC LN E WABASHA 55981	1217 RUSTIC LN WABASHA MN 55981-1754		1	\$1,385.41
157	R27.00937.03	BRADLEY M & RACHEL L THIMMESCH	1218 RUSTIC LN E WABASHA 55981	1218 RUSTIC LN E WABASHA MN 55981-1737		1	\$1,385.41
158	R27.00964.03	DENNIS W & SHEILA A ATHERTON	1224 RUSTIC LN E WABASHA 55981	1224 RUSTIC LN E WABASHA MN 55981-1737		1	\$1,385.41
<b>Washington Avenue</b>							
159	R27.00796.00	DYLAN J HARTERT	906 WASHINGTON AVE WABASHA 55981	906 WASHINGTON AVE WABASHA MN 55981-1655		1	\$1,385.41
<b>MISC</b>							
160	R27.00578.00	COUNTY OF WABASHA	WABASHA 55981	625 JEFFERSON AVE WABASHA MN 55981-0133	106	1	\$1,385.41
161	R27.00993.09	GRISIM ENTERPRISES LLC	WABASHA 55981	960 N 10TH ST LAKE CITY MN 55041-2244	62	1	\$1,385.41
162	R27.00993.06	BRUCE A & BEVERLY A BAKER	WABASHA 55981	62739 145TH AVE KELLOGG MN 55945-4506	60	1	\$1,385.41
163	R27.00986.03	COUNTY OF WABASHA	WABASHA 55981	625 JEFFERSON AVE WABASHA MN 55981-0133	70	1	\$1,385.41
164	R27.00928.00	JAMES A & RITA A FOX	WABASHA 55981	223 2ND ST E WABASHA MN 55981-1443		1	\$1,385.41
165	R27.00918.00	RICHARD E & PATRICIA ELWORTHY	WABASHA 55981	406 2ND ST E WABASHA MN 55981-1448		1	\$1,385.41
166	R27.00825.18	LYNN R & JEAN E MUSTAIN	WABASHA 55981	1136 JEFFERSON AVE WABASHA MN 55981-1567		1	\$1,385.41
167	R27.00797.00	DAVID E & MARCIA C MEYER	WABASHA 55981	729 9TH ST E WABASHA MN 55981-1610		1	\$1,385.41
168	R27.00831.00	CITY OF WABASHA	WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	142	1.25	\$1,731.76
169	R27.00800.12	CITY OF WABASHA	WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	158	1.25	\$1,731.76
170	R27.01185.00	DAVID J & VALERIE J AHLERS	WABASHA 55981	23397 HIGHWAY 60 WABASHA MN 55981-2176		1	\$1,385.41
171	R27.01092.00	CITY OF WABASHA	WABASHA 55981	900 HIAWATHA DR E, P.O. BOX 268 WABASHA MN 55981-0268	77	1	\$1,385.41
172	R27.01099.00	JENNIFER A ENDER	WABASHA 55981	1400 RIVER DR S WABASHA MN 55981-1763		1	\$1,385.41
173	R27.00088.00	WILLIAM M FITZGERALD	WABASHA 55981	16489 S COUNTY ROAD 24 WABASHA MN 55981-7655	85	1	\$1,385.41
<b>Totals:</b>						<b>187.5</b>	<b>\$259,764.04</b>

Denotes properties that were on the 2013 Assessment Roll

**Assessment Calculations**  
Total Estimated Project Costs \$1,298,820.20  
Total Assessable Costs \$259,764.04  
Assessable ERUs 187.5  
Assessment Rate per ERU \$1,385.41

### **Services Provided:**

Civil and Municipal Engineering  
Water and Wastewater Engineering  
Traffic and Transportation Engineering  
Aviation Planning and Engineering  
Water Resources Engineering  
Coatings Inspection Services  
Landscape Architecture Services  
Surveying and Mapping  
Geographic Information System Services  
Municipal Planning Services  
Funding Assistance

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