Village of Newberry
Phase II – Wastewater Treatment Plant and Collection System Improvements

Michigan Clean Water State Revolving Fund Project Plan (2023)
2022 Project Plan – Amendment No. 2

21-0321

March 31, 2023

c2ae
architecture • engineering

1211 Ludington Street
Escanaba, MI 49829

PROJECT BACKGROUND

This study (Project Plan) was originally authorized by the Village of Newberry via execution of a letter proposal on July 20, 2021 and a project plan was submitted on May 2, 2022. The purpose of this Amendment 2 of the 2022 Project Plan is to evaluate needs and recommend alternatives for the change in scope for Fiscal Year funding 2024. The Village is a regionalized system receiving flow from both McMillan and Pentland Townships.

SUMMARY OF PROJECT NEED

Reliable operation of the wastewater collection system within the Village of Newberry's utility systems are imperative to protect the health and safety of the Village's citizens and visitors. The Village has been operating and maintaining the wastewater treatment plant and collection system effectively, but there are areas of escalating deterioration and obsolescence that require a larger, preventative replacement, and rehabilitation effort. Operators, consultants, and regulators have collaborated on the proposed solutions for these areas of work.

ANALYSIS OF ALTERNATIVES

The Village has invested in regular maintenance, asset management, and capital improvements planning for their system. The principal alternatives, for the additional scope item outline in this amendment, are being considered as noted below:

Alternative 1: No Action

Not implementing a corrective measures project at this time while attempting to correct deficiencies in the system over time as maintenance budgets will allow.

Alternative 2: Wastewater Treatment Plant and Collection System Improvements

Alternative 2 includes over 5,000 ft of sewer line replacement, removal of over 700 intruding sewer laterals throughout the Village limits in project locations (refer to Figure 1 and Figure 2 for project locations). Priority 1 and 2 are considered to be the "base priorities". The "wish list" areas (which include Priority 3 and 4) are areas to be included into the project if bids come in low. These improvements were established based on the Village's SAW asset management and capital improvement plans. The priority areas highlight the worst sewer condition areas based off of age of sewer. Sewers over 100 years old are prioritized for replacement.

Alternative 2 also includes improvements to the wastewater treatment plant (WWTP); refer to Figure 3. Improvements are summarized below. Further detail can be found in the original 2022 Project Plan.

- Sludge Storage Expansion
- Headworks Improvements (Fine Screening and Septage Receiving Station)
- Final Tank Dome Replacements
- Primary Settling Tank Expansion
- Raw Sewage Pump Station Rehabilitation
- Return Activated Sludge (RAS) No. 3 Pump Replacement
- Miscellaneous Building and Site Improvements (i.e. painting, SCADA, driveway replacement, service building improvements, new generator)

Lining/Rehabilitation of Sewer

Lining all of the referenced sewer pipe is not considered a potential alternative as it is not feasible to line the pipe. Vertical alignment issues, collapsed pipe, pipe sagging, and intruding taps would require potentially numerous spot repairs prior to lining, making replacement more cost effective and increased longevity. There is also issues with the grades and some of the main is shallow requiring full replacement.

Legend

- Sanitary Manhole
- All Sanitary Pipes
- Priority 1
- Priority 2
- Priority 3
- Priority 4
- Wish List

0 200 400 800 1,200 1,600 Feet

Nelson Rd
Railroad St
County Road 432
County Road 430
W Helen St
E Helen St
Sherman St
Robinson St
W John St
E John St
W Truman St
E Truman St
Phelps St
Handy St
Parmalee St
Newberry Ave
W Court St
E Court St
W Harrie St
E Harrie St
Vulcan St
H St
W McMillan Ave
E McMillan Ave
County Road 405 North
Charles St
W Avenue A
E Avenue A
W Avenue B
E Avenue B
W Avenue C
E Avenue C
W Avenue D
E Avenue D
Tahquamenon Blvd
Washington Blvd
Sherman St
Phelps St
Broad St
East Limits St
W Victory Way
County Road 466

C1 B1 A1 A2 A3 A4 D1

VILLAGE OF NEWBERRY
PROJECT: 21-0321
LUCE COUNTY, MICHIGAN

c2ae architecture • engineering

FIGURE 1. PROPOSED WASTEWATER COLLECTION SYSTEM IMPROVEMENTS

PLOTTED BY: ASHLEY.HENDRICKS 03/28/2023 03:07 PM N:\2021\210321_Newberry_WW_Ph1\Drawings_GIS\Newberry_SAW_Map.mxd

Legend

- Intruding Lateral
- Sanitary Manhole
- All Sanitary Pipes

County Road 462 East
County Road 432
County Road 430
E Truman St
County Road 391
East Limits St
E Avenue B
E Avenue C
E Avenue D
County Road 466
Vulcan St
E John St
E Harrie St
E McMillan Ave
E Avenue A
Broad St
Charles St
County Road 451
E Helen St
Barmelee St
Handy St
E Avenue A
E Avenue B
E Avenue C
M 123
Newberry Ave
County Road 395
W Helen St
Phelps St
Robinson St
W McMillan Ave
W Avenue A
W Avenue B
W Avenue C
W Avenue D
Schroder Ln
Autumn Ln
Lois Ln
Railroad St
Sherman St
W John St
W Truman St
W Court St
W Harrie St
H St
Nelson Rd
County Road 462 West
Washington Blvd
W Victory Way
Tahquamenon Blvd

0 460 920 1,840 2,760 3,680 Feet

INTRUDING SEWER LATERAL TAP LOCATIONS

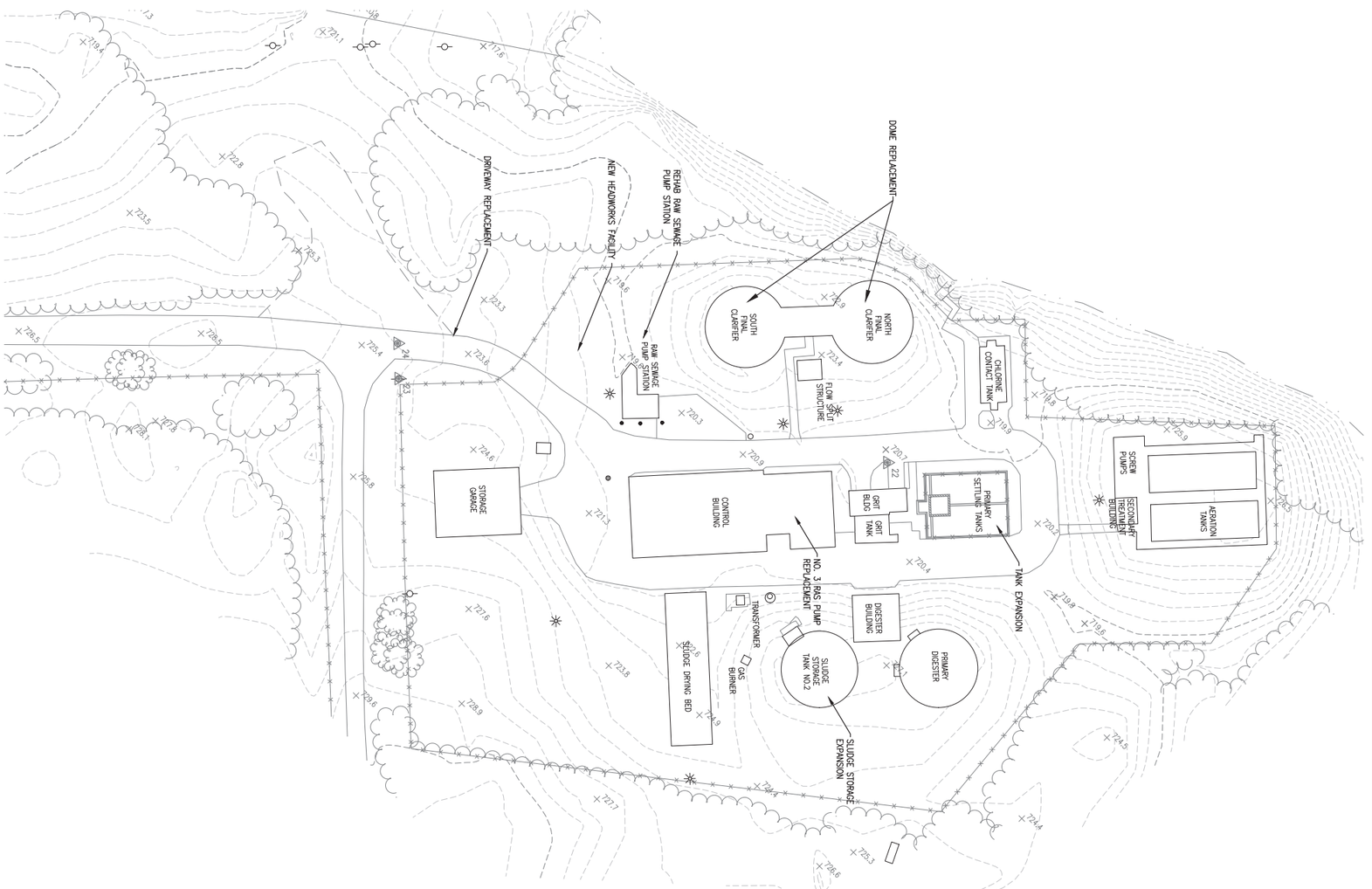
VILLAGE OF NEWBERRY
PROJECT: 21-0321
LUCE COUNTY, MICHIGAN

c2ae architecture • engineering

PLOTTED BY: ASHLEY.HENDRICKS 03/01/2023 04:09 PM \\Es-2021\n-drive\2021\210321_Newberry_WW_Ph1\Drawings_GIS\Newberry_SAW_Map.mxd

PLOTTED BY: HENDRICKS, ASHLEY 3/8/2022 12:07 PM
N:\2021\21031_Newberry_WW_PH1\Drawings\Sheets\2 PROPOSED WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS.dwg
DESIGNED BY: -
APPROVED BY: -
CHECKED BY: -

THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID BLACK
WHITE BLACK
WE RECYCLE



0 30 60 Feet

2

SHEET

FEBRUARY 2022

DATE

21031

PROJ #

REVISIONS

NO. DESCRIPTION DATE

FIGURE 3.
PROPOSED WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

VILLAGE OF NEWBERRY, MICHIGAN
CWSRF PROJECT PLAN

LUCE COUNTY, MICHIGAN

www.c2ae.com

c2ae architecture · engineering

PRELIMINARY SUBMITTAL

SELECTED ALTERNATIVE

Due to the nature of the existing infrastructure and the scope of the proposed project, rehabilitation to the sewer system is the viable option. Asset management efforts have shown an aging system that does not effectively serve the Village. Design will meet current EGLE, AWWA, and local standards with planned mitigation of environmental issues developed during the design and permitting process.

Construction Costs

The cost breakdown for the collection system improvements are shown in Table 1 below. Priority 1 and 2 are considered to be the "base priorities". The "wish list" areas (which include Priority 3 and 4) are areas to be included into the project if bids come in low.

Table 1. Construction Costs of Collection System Improvements

Label	Location	Cost
A1	Robinson St (W Helen St to South Alley)	$222,500
A2	E Ave A (Charles to East Limits St)	$602,900
A3	E Ave C (Vulcan St to East Limits St)	$276,900
A4	Alley South of E Ave C by East Limits St	$117,000
B1	Railroad to Charles St	$1,618,800
Priority 1, 2 & 3 Collection System Subtotal		***$2,839,000***
Removal of 700 Intruding Laterals		***$350,000***
Total Collection Construction		***$3,189,000***
Wish List Items		
C1	Railroad to Sherman St	$1,024,100
D1	W Harrie St	$969,100
Remaining 100 Year Old Sewer Main		$10,409,400
Wish List Items Total		***$12,402,600***

The cost breakdown for the WWTP improvements are provided in Table 2.

Table 2. Wastewater Treatment Plant Improvements

Description	Estimated Cost
Sludge Storage, Increased Capacity	$1,928,000
Headworks Improvements	$2,823,000
Final Tank Domes Replacement	$882,000
Primary Settling Tank Expansion	$1,172,000
Raw Sewage Pump Station Coating	$76,000
Driveway Replacement	$164,000
Service Building/ADA Bathroom	$38,000
SCADA	$202,000
RAS Pump Replacement (No. 3 Pump)	$51,000
WWTP Painting	$32,000
Generator	$315,000
Total WWTP Construction	***$7,683,000***

Present Worth Analysis

A present worth analysis is also included in Table 2 below. The anticipated savings in operating expenses is represented as negative "O&M impacts." Likewise, the "no action" alternative indicates escalating expenses as utility rates increase and energy efficiency decreases.

Table 3. Present Worth Analysis

Item	Description	Alternative 1: No Action	Alternative 2: Rehabilitation
1	Construction Costs	$0	$10,872,000
2	Engineering, Legal, Administration, Planning, and Contingencies	$0	$3,570,000
3	Total Capital Cost	$0	$14,442,000
4	Total Annual O&M Change	$0	-$30,000
5	Present Worth of O&M Costs	$0	-$617,000
6	Salvage Value	$0	$2,471,700
7	Present Worth of Salvage Value	$0	$2,599,000
8	**Total Present Worth**	$0	$11,226,000

Table row description for Table 1:

1. Construction costs developed by AMP and detailed in Attachment A.
2. Project support fees based on a percentage of construction costs of about 30%
3. Capital costs are sum of 1 and 2.
4. O&M costs are based on the full budget, adding or subtracting impacts at the throughout the system.

5. Present value of O&M costs for 20 years at -0.25% (per 2023 USDA/SRF guidance).
6. Land considered permanent, 50-year life for piping and valves, 30-year life for lining, 50-year life for structures, 20-year life for repairs, and 20-year life for equipment.
7. Present worth of line 6 at -0.25% interest for 20 years.
8. Total of items 3 and 5 minus 7.

Capital Costs

A brief summary of planning, design, and construction costs is included below in Table 3.

Table 4. Project Cost Summary

Item	Est. Total
Construction	**$10,872,000**
Administration, Legal, Bonding, Permits, & Miscellaneous	**$108,000**
Planning	$20,000
Design	$1,088,000
Bidding	$71,000
General Engineering During Construction	$490,000
Post Construction Services	$22,000
Resident Project Representative	$598,000
Additional Services – Design Related	$164,000
Additional Services – Construction Related	$191,000
Engineering Total	**$2,644,000**
Contingencies	**$818,000**
Total Project Cost	**$14,442,000**

User Costs

Table 5 demonstrates the impact on user rates that may be possible with a project of this size. This breakdown assumes a 30-year debt service on the bond at an interest rate of 1.875% (2023 interest rate). O&M is expected to decrease, but will be maintained at existing rate for conservative budgeting.

Overburdened Community

A "Overburdened Community Status Determination Worksheet" is included with the final project plan submittal. According to guidelines, the Village does qualify as an overburdened community considering their current and projected debt service, median household income, and user rates.

Table 5. User Costs

Description	Value
CWSRF Loan Amount	$14,442,000
Anticipated Interest Rate	1.875%
Term	30 Years
Annual Debt Service	$633,804
Monthly Debt Service	$52,817
Estimated System EDUs	2,705
User Rate Impact / EDU /month	$19.53

Schedule for Design and Construction

The schedule for design and construction is present in Table 4 below.

Table 6. Project Schedule

Item	Target
CWSRF Application Submittal	Summer 2023
CWSRF Acceptance	Summer 2023
Funding Commitment	Summer 2023
Start Design	Winter 2023
Land & Easements Acquisition	Not Applicable
Permits	Spring 2024
Advertise for Bids	Spring 2024
Funding Closing	Spring 2024
Contract Award	Spring 2024
Construction	Summer 2024
Substantial Completion	Fall 2026
Final Completion & Initiate Operation	Fall 2026

ENVIRONMENTAL EVALUATION

The anticipated environmental impacts resulting from implementation of the selected alternative are relatively minor. There is no major increase in the extent of the system.

MITIGATION MEASURES

Where adverse impacts due to installation of the recommended improvements cannot be avoided, mitigation measures will be implemented. Costs for mitigation measures were considered and included where applicable in project opinions of probable cost and included in construction contract documents.

PUBLIC PARTICIPATION

An initial public hearing on the original scope of work held during a regular Village Council meeting on April 19, 2022. A public meeting on this amendment was on April 17, 2023. An advertisement was placed on the Village's Website prior to the Public Meeting on March 31, 2023. Simultaneously to the advertisement publication, copies of the amended project plan were made available to the public at Village Hall and on the Village's website. No written comments were received prior to the Public Meeting.

ATTACHMENTS

Attachment A

Estimated Project Construction Costs

Village of Newberry Collection System Improvements (210321)

Versions: ANH 3/28/2023

				A1		A2		A3		A4		B1		C1		D1			
				Robinson St (W Helen St to South Alley)		E Ave A (Charles to East Limits St)		E Ave C (Vulcan St to East Limits St)		Alley South of E Ave C by East Limits St		Railroad to Charles St		Railroad to Sherman St		W Harrie St		Remaing 100 year old pipe	
Item	Description	Price	Unit	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost
General																			
101	Mobilization, General Conditions, Bonds & Insurance (5% of Total Construction Cost)	5%			$ 10,346		$ 28,038		$ 12,875		$ 5,440		$ 75,289		$ 47,628		$ 45,070		$ 484,157
102	Environmental Mitigation, Traffic Control, Etc. (2.5% of Total Construction Cost)	2.5%			$ 5,173		$ 14,019		$ 6,438		$ 2,720		$ 37,645		$ 23,814		$ 22,535		$ 242,079
				Total	$ 15,520	Total	$ 42,057	Total	$ 19,313	Total	$ 8,159	Total	$ 112,934	Total	$ 71,443	Total	$ 67,605	Total	$ 726,236
Restoration																			
201	6" Concrete Alley Replacement (Full Width)	$108	SY	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
202	12" Gravel Base in Type 'E' Pavement Areas (Full Width)	$27	SY	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
203	3" Type 'A' HMA Pavement Replacement (Half Width-Trench Only)	$75	LF	450	$ 33,750	1,250	$ 93,750	460	$ 34,500	0	$ -	2,800	$ 210,000	2,180	$ 163,500	1,600	$ 120,000	17,240	$ 1,293,000
204	12" Gravel Base in Type 'A' Pavement Areas (Half Width-Trench Only)	$30	LF	450	$ 13,500	1,250	$ 37,500	460	$ 13,800	0	$ -	2,800	$ 84,000	2,180	$ 65,400	1,600	$ 48,000	17,240	$ 517,200
205	3" Type 'B' HMA Pavement Replacement (3" Trench Plus 1.5" Full Width Cap)	$80	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
206	12" Gravel Base in Type 'B' Pavement Areas (Trench Only)	$30	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
207	12" Gravel Surface Replaement (15'w)	$12	SY	0	$ -	0	$ -	0	$ -	583	$ 7,000	0	$ -	0	$ -	0	$ -	0	$ -
208	Pavement Marking	$1	LF	450	$ 450	1,250	$ 1,250	460	$ 460	350	$ 350	2,800	$ 2,800	2,180	$ 2,180	1,600	$ 1,600	17,240	$ 17,240
209	Curb and Gutter Replacement (both sides)	$30	LF	225	$ 6,750	0	$ -	920	$ 27,600	0	$ -	933	$ 28,000	0	$ -	3,200	$ 96,000	34,480	$ 1,034,400
210	Curb and Gutter Removal (both sides)	$10	LF	225	$ 2,250	0	$ -	920	$ 9,200	0	$ -	933	$ 9,333	0	$ -	3,200	$ 32,000	34,480	$ 344,800
211	Storm Repair (1-48" Manhole with 15' of Storm Pipe & 2-36" Catch Basins with 30' Lead every 400')	$20,500	EA	1	$ 23,063	3	$ 64,063	1	$ 23,575	1	$ 17,938	7	$ 143,500	5	$ 111,725	4	$ 82,000	43	$ 883,550
212	6" Concrete Driveway Replacement (every 800', 10sy)	$60	SY	6	$ 338	16	$ 938	6	$ 345	0	$ -	35	$ 2,100	27	$ 1,635	20	$ 1,200	216	$ 12,930
213	3" Bituminous Driveway Replacement (every 300', 10sy)	$75	SY	15	$ 1,125	42	$ 3,125	15	$ 1,150	0	$ -	93	$ 7,000	73	$ 5,450	53	$ 4,000	575	$ 43,100
214	4" Concrete Sidewalk (5'w)	$10	SF	1,125	$ 11,250	3,125	$ 31,250	2,300	$ 23,000	0	$ -	14,000	$ 140,000	0	$ -	8,000	$ 80,000	86,200	$ 862,000
215	6" Concrete Sidewalk at Drive Crossings (every 200' @ 5'x15')	$12	SF	338	$ 4,050	938	$ 11,250	345	$ 4,140	0	$ -	2,100	$ 25,200	1,635	$ 19,620	1,200	$ 14,400	12,930	$ 155,160
216	6" Concrete ADA Ramps w/ Iron Warning Plate (every 400' @100sf)	$20	SF	225	$ 4,500	625	$ 12,500	230	$ 4,600	0	$ -	1,400	$ 28,000	1,090	$ 21,800	800	$ 16,000	8,620	$ 172,400
217	Adjust Existing Casting before Final Paving (2 ea @ 400')	$390	EA	2	$ 878	6	$ 2,438	2	$ 897	2	$ 683	14	$ 5,460	11	$ 4,251	8	$ 3,120	86	$ 33,618
218	Miscellaneous Topsoil, Seed & Mulch / Sod Restoration	$8	LF	450	$ 3,600	1,250	$ 10,000	460	$ 3,680	350	$ 2,800	2,800	$ 22,400	2,180	$ 17,440	1,600	$ 12,800	17,240	$ 137,920
219	Gravel Shoulder Replacement (6" d, 2' w)	$5	LF	0	$ -	1,250	$ 6,250	460	$ 2,300	0	$ -	2,800	$ 14,000	2,180	$ 10,900	1,600	$ 8,000	17,240	$ 86,200
220	Excess Cut, (15% of Pipe LF)	$3	LF	68	$ 213	188	$ 591	69	$ 217	53	$ 165	420	$ 1,323	327	$ 1,030	240	$ 756	2,586	$ 8,146
				Total	$ 105,715	Total	$ 274,903	Total	$ 149,464	Total	$ 28,935	Total	$ 723,116	Total	$ 424,931	Total	$ 519,876	Total	$ 5,601,664
Open-Trench Sanitary Sewer Items																			
401	Granular Fill Over Sewer (5% of Trench Length)	$28	LF	23	$ 630	63	$ 1,750	23	$ 644	18	$ 490	140	$ 3,920	109	$ 3,052	80	$ 2,240	862	$ 24,136
402	12" Trench Undercut and Stone Refill for Sewer (25% of Trench)	$12	LF	113	$ 1,350	313	$ 3,750	115	$ 1,380	88	$ 1,050	700	$ 8,400	545	$ 6,540	400	$ 4,800	4,310	$ 51,720
403	30" Sanitary Sewer	$170	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	400	$ 68,000
404	27" Sanitary Sewer	$160	LF	0	$ -	0	$ -	0	$ -	0	$ -	1,700	$ 272,000	0	$ -	0	$ -	0	$ -
405	24" Sanitary Sewer	$150	LF	0	$ -	0	$ -	0	$ -	0	$ -	800	$ 120,000	0	$ -	0	$ -	1,800	$ 270,000
406	21" Sanitary Sewer	$140	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
407	18" Sanitary Sewer	$130	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	500	$ 65,000
408	15" Sanitary Sewer	$120	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	1,400	$ 168,000	0	$ -	0	$ -
409	12" Sanitary Sewer	$110	LF	0	$ -	0	$ -	0	$ -	0	$ -	300	$ 33,000	400	$ 44,000	1,600	$ 176,000	7,300	$ 803,000
410	10" Sanitary Sewer	$100	LF	0	$ -	1,250	$ 125,000	460	$ 46,000	0	$ -	0	$ -	380	$ 38,000	0	$ -	6,340	$ 634,000
411	8" Sanitary Sewer	$90	LF	450	$ 40,500	0	$ -	0	$ -	350	$ 31,500	0	$ -	0	$ -	0	$ -	900	$ 81,000
412	6" Sanitary Sewer	$75	LF	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
413	4" To 6" Sanitary Lateral Replacement (35 LF Ea. Every 100' Ea. Side)	$75	LF	315	$ 23,625	875	$ 65,625	322	$ 24,150	245	$ 18,375	1,960	$ 147,000	1,526	$ 114,450	1,120	$ 84,000	12,068	$ 905,100
414	Wye Branch (1 Every 100' Ea. Side)	$650	EA	9	$ 5,850	25	$ 16,250	9	$ 5,980	7	$ 4,550	56	$ 36,400	44	$ 28,340	32	$ 20,800	345	$ 224,120
415	By-pass Pumping Around Sewer Section Being Replaced	$12	LF	450	$ 5,400	1,250	$ 15,000	460	$ 5,520	350	$ 4,200	2,800	$ 33,600	2,180	$ 26,160	1,600	$ 19,200	17,240	$ 206,880
416	Dewatering	$15	LF	450	$ 6,750	1,250	$ 18,750	460	$ 6,900	350	$ 5,250	2,800	$ 42,000	2,180	$ 32,700	1,600	$ 24,000	17,240	$ 258,600
417	48" Pre-Cast Manhole Replacement	$5,000	EA	2	$ 10,625	4	$ 20,625	2	$ 10,750	2	$ 9,375	8	$ 40,000	6	$ 32,250	5	$ 25,000	44	$ 220,500
418	Connect to Existing Sanitary Sewer (2 Ea. @ 400')	$2,000	EA	2	$ 4,500	6	$ 12,500	2	$ 4,600	2	$ 3,500	14	$ 28,000	11	$ 21,800	8	$ 16,000	86	$ 172,400
419	Utility Location Investigation (1 Ea. @ 1,000')	$1,000	EA	0	$ -	1	$ 1,000	0	$ -	0	$ -	3	$ 3,000	2	$ 2,000	2	$ 2,000	17	$ 17,000
420	Rock or Boulder Excavation (5% of Total Water/Sanitary Cost)	5.0%			$ 1,985		$ 5,605		$ 2,118		$ 1,566		$ 15,346		$ 10,346		$ 7,481		$ 80,029
				Total	$ 101,215	Total	$ 285,855	Total	$ 108,042	Total	$ 79,856	Total	$ 782,666	Total	$ 527,638	Total	$ 381,521	Total	$ 4,081,485
Total Construction Costs																			
General					$ 15,520		$ 42,057		$ 19,313		$ 8,159		$ 112,934		$ 71,443		$ 67,605		$ 726,236
Restoration					$ 105,715		$ 274,903		$ 149,464		$ 28,935		$ 723,116		$ 424,931		$ 519,876		$ 5,601,664
Sanitary					$ 101,215		$ 285,855		$ 108,042		$ 79,856		$ 782,666		$ 527,638		$ 381,521		$ 4,081,485
Total					$ 222,500		$ 602,900		$ 276,900		$ 117,000		$ 1,618,800		$ 1,024,100		$ 969,100		$ 10,409,400

Attachment B

Bond Schedule

Bond Schedule - Year 1

Date: ***03/30/23***

Type of Bond: **30 Yr. Loan**

Borrower Name:	**Village of Newberry**
Interest Rate:	1.875%
Yrs Deferred Principle	0
Principal:	**$14,442,000** (round to nearest $1000)
Ammort. Factor	0.0439
Ammortized Payment:	$633,804
Monthly Debt Service:	$52,817
Estimated System EDUs	2,705
User Rate Impact	$19.53

Year	1st Interest	2nd Interest	Principal Paid	Total Year Payment	Loan Balance
					14,442,000
1	135,394	135,394	363,000	633,788	14,079,000
2	131,991	131,991	370,000	633,981	13,709,000
3	128,522	128,522	377,000	634,044	13,332,000
4	124,988	124,988	384,000	633,975	12,948,000
5	121,388	121,388	391,000	633,775	12,557,000
6	117,722	117,722	398,000	633,444	12,159,000
7	113,991	113,991	406,000	633,981	11,753,000
8	110,184	110,184	413,000	633,369	11,340,000
9	106,313	106,313	421,000	633,625	10,919,000
10	102,366	102,366	429,000	633,731	10,490,000
11	98,344	98,344	437,000	633,688	10,053,000
12	94,247	94,247	445,000	633,494	9,608,000
13	90,075	90,075	454,000	634,150	9,154,000
14	85,819	85,819	462,000	633,638	8,692,000
15	81,488	81,488	471,000	633,975	8,221,000
16	77,072	77,072	480,000	634,144	7,741,000
17	72,572	72,572	489,000	634,144	7,252,000
18	67,988	67,988	498,000	633,975	6,754,000
19	63,319	63,319	507,000	633,638	6,247,000
20	58,566	58,566	517,000	634,131	5,730,000
21	53,719	53,719	526,000	633,438	5,204,000
22	48,788	48,788	536,000	633,575	4,668,000
23	43,763	43,763	546,000	633,525	4,122,000
24	38,644	38,644	557,000	634,288	3,565,000
25	33,422	33,422	567,000	633,844	2,998,000
26	28,106	28,106	578,000	634,213	2,420,000
27	22,688	22,688	588,000	633,375	1,832,000
28	17,175	17,175	599,000	633,350	1,233,000
29	11,559	11,559	611,000	634,119	622,000
30	5,831	5,831	622,000	633,663	0

Attachment C

Newberry's Sewer Budget

BUDGET REPORT FOR NEWBERRY VILLAGE
Fund: 590 Sewage Receiving Fund

GL NUMBER	DESCRIPTION	2023 ORIGINAL BUDGET	2023 AMENDED BUDGET
ESTIMATED REVENUES			
Function: Unclassified			
Dept 000			
590-000-643.000	CHARGE FOR SERVICE-SEPTAGE DUM	55,000	55,000
590-000-643.001	CHARGE FOR SERVICES/DOC	494,000	494,000
590-000-643.002	CHARGE FOR SERVICES/BWL RECEIP	470,000	470,000
590-000-643.003	CHARGE FOR SERVICES/PENTLAND	700	700
590-000-645.500	PENALTIES & LATE FEES	3,000	3,000
590-000-665.000	INTEREST EARNED	250	250
590-000-678.000	REIMBURSE - EQUIPMENT RENTAL	15,000	15,000
Totals for dept 000 -		1,037,950	1,037,950
Total - Function Unclassified		1,037,950	1,037,950
TOTAL ESTIMATED REVENUES		1,037,950	1,037,950

GL NUMBER	DESCRIPTION	2023 ORIGINAL BUDGET	2023 AMENDED BUDGET
APPROPRIATIONS			
Function: Unclassified			
Dept 537 - SEWER SYSTEM			
590-537-702.000	WAGES - PLANT	97,000	97,000
590-537-702.001	WAGES - INFRASTRUCTURE	15,000	15,000
590-537-703.000	SALARIES	67,000	67,000
590-537-705.000	VACATION	15,000	15,000
590-537-705.001	VACATION - INFRASTRUCUTRE	700	700
590-537-706.000	HOLIDAY	12,000	12,000
590-537-706.001	HOLIDAY - INFRASTRUCTURE	500	500
590-537-709.000	EMPLOYER'S FICA	19,000	19,000
590-537-710.000	UNEMPLOYMENT	500	500
590-537-713.000	WAGES - OVERTIME	6,000	6,000
590-537-713.001	WAGES- OT - INFRASTRUCUTRE	800	800
590-537-716.000	FUNERAL ALLOWANCE	1,000	1,000
590-537-716.001	FUNERAL LEAVE - INFRASTRUCTURE	200	200
590-537-717.000	RETIREMENT-MERS-EMPLOYER	44,000	44,000
590-537-717.001	RETIREMENT - INFRASTRUCTURE	2,500	2,500
590-537-718.000	MEDICAL SCREENING - PRE EMPLOY	20	20
590-537-719.000	HOSPITALIZATION	78,000	78,000
590-537-719.001	HOSPITAL - INFRASTRUCTURE	1,200	1,200
590-537-721.000	H S A	15,000	15,000
590-537-724.000	SICK PAY	8,800	8,800
590-537-724.001	SICK PAY - INFRASTRUCTURE	300	300
590-537-725.000	WORKMANS' COMPENSATION	1,500	1,500
590-537-726.000	LIFE INSURANCE	500	500
590-537-751.000	LICENSE FEES	500	500
590-537-752.000	OFFICE SUPPLIES	800	800
590-537-752.001	OPERATING SUPPLIES - INFRASTRUCTUI	1,000	1,000
590-537-752.100	OPERATING SUPPLIES	2,000	2,000
590-537-752.200	IT SOFTWARE	3,800	3,800
590-537-753.000	TOOLS & EQUIP (UNDER THRES)	4,000	4,000
590-537-753.001	TOOLS & EQUIP INFRASTRUCUTRE	500	500
590-537-759.000	GAS, OIL & GREASE	1,000	1,000
590-537-767.000	UNIFORMS	1,000	1,000
590-537-768.000	CDL LICENSE	600	600
590-537-769.000	DRUG TESTING	300	300
590-537-776.000	SUPPLIES - BUILDING MAINTENANCE	4,000	4,000
590-537-801.000	PROFESSIONAL & CONTRACTUAL	110,000	110,000
590-537-801.001	PROFESSIONAL & CONTRACTUAL INFRAST	10,000	10,000
590-537-801.100	PROF & CONTR SERVICES-RESIDENT	1,000	1,000
590-537-801.200	LEGAL	3,000	3,000
590-537-801.201	LEGAL - INFRASTRUCTURE	8,000	8,000
590-537-804.000	LEASE EXPENSE	100	100
590-537-850.000	TELEPHONE	3,500	3,500
590-537-851.000	POSTAGE	600	600
590-537-851.001	POSTAGE- INFRASTRUCTURE	1,700	1,700
590-537-900.000	PUBLISHING & PRINTING	500	500
590-537-900.001	PUBLISHING & PRINTING INFRASTRUCTU	1,500	1,500
590-537-910.000	PROFESSIONAL DEVELOPMENT	1,500	1,500
590-537-913.000	TRAVEL	800	800
590-537-915.000	MEMBERSHIPS & SUBSCRIPTIONS	1,000	1,000
590-537-917.000	TREATMENT COSTS	20,000	20,000
590-537-917.100	LAB SUPPLIES	8,000	8,000
590-537-918.000	WATER	9,000	9,000
590-537-920.000	ELECTRICITY	37,000	37,000
590-537-921.000	HEAT	11,000	11,000
590-537-929.000	REPAIRS & MAINTENANCE	10,000	10,000
590-537-929.100	PREVENTATIVE MAINTENANCE	1,000	1,000
590-537-929.101	PREVENTATIVE MAINT - INFRASTRUCTUI	200	200
590-537-932.000	VEHICLE REPAIRS & MAINTENANCE	1,000	1,000
590-537-935.000	PROPERTY LIABILITY INSURANCE	25,000	25,000
590-537-940.000	EQUIPMENT RENTAL	15,000	15,000
590-537-968.100	BOND RESERVE	10,000	10,000
590-537-971.000	CAPITAL OUTLAY BUILDING	5,000	5,000
590-537-973.000	CAPITAL OUTLAY	85,000	85,000
590-537-991.000	PRINCIPAL	180,000	180,000
590-537-992.200	INTEREST BOND #2	68,000	68,000
Totals for dept 537 - SEWER SYSTEM		1,034,420	1,034,420
Total - Function Unclassified		1,034,420	1,034,420
TOTAL APPROPRIATIONS		1,034,420	1,034,420
NET OF REVENUES/APPROPRIATIONS - FUND 590		3,530	3,530
	BEGINNING FUND BALANCE		
	ENDING FUND BALANCE		

Attachment D

Sewer Main Replacement List

Priority	Label	Pipe	Size	Material	Install Year	Length (ft)	Street	Consequence of Failure	Probability of Failure	Business Risk	Quick Rate Structural	Quick Rate O&M	Quick Rate Overall
Priority 1	A1	SA0240B-SA0235	6"	Vitrified Clay Pipe	1900	413	Robinson St	1	5	5	5123	4131	5141
Priority 1	A2	SA0193-SA0194	10"	Vitrified Clay Pipe	1930	300	E Avenue A	3	5	15	<Null>	<Null>	4200
Priority 1	A2	SA0194-SA0184	10"	Vitrified Clay Pipe	1930	299	E Avenue A	3	5	15	<Null>	<Null>	4200
Priority 1	A2	SA0195-SA0184	10"	Vitrified Clay Pipe	1930	300	E Avenue A	3	5	15	<Null>	<Null>	4200
Priority 1	A2	SA0196A-SA0196	10"	Vitrified Clay Pipe	1930	26	E Avenue A	3	5	15	<Null>	<Null>	4200
Priority 1	A2	SA0196-SA0195	10"	Vitrified Clay Pipe	1930	300	E Avenue A	3	5	15	<Null>	<Null>	4200
Priority 1	A3	SA0186A-SA0186	10"	Vitrified Clay Pipe	1930	445	E Avenue C	3	5	15	<Null>	<Null>	4200
Priority 1	A4	SA0198A-SA0198	8"	Reinforced Concrete Pipe	1970	310	Alley North of E Avenue D	2	5	10	5132	341K	5136
Priority 2	B1	SA0125-SA0101	27"	Reinforced Concrete Pipe	1880	183	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0126-SA0125	27"	Reinforced Concrete Pipe	1880	208	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0127A-SA0126	27"	Reinforced Concrete Pipe	1880	247	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0130-SA0127A	27"	Reinforced Concrete Pipe	1930	694	E Helen St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0131-SA0130	27"	Reinforced Concrete Pipe	1930	158	Charles St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0132-SA0131	27"	Reinforced Concrete Pipe	1930	201	Charles St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0133-SA0167	24"	Polyvinyl Chloride	1997	25	Charles St	5	3	15	<Null>	<Null>	2200
Priority 2	B1	SA0134-SA0133	24"	Reinforced Concrete Pipe	1930	28	Charles St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0135-SA0134	24"	Reinforced Concrete Pipe	1930	334	Charles St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0136-SA0135	24"	Reinforced Concrete Pipe	1930	44	Charles St	5	5	25	<Null>	<Null>	5200
Priority 2	B1	SA0137A-SA0136	12"	Vitrified Clay Pipe	1930	337	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0137-SA0137A	12"	Vitrified Clay Pipe	1930	42	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0139-SA0137	12"	Vitrified Clay Pipe	1930	334	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0141-SA0139	12"	Vitrified Clay Pipe	1930	383	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0142-SA0141	12"	Vitrified Clay Pipe	1930	423	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0143-SA0142	12"	Vitrified Clay Pipe	1930	349	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0145-SA0143	12"	Vitrified Clay Pipe	1930	331	Charles St	4	5	20	<Null>	<Null>	4200
Priority 2	B1	SA0146-SA0145	12"	Vitrified Clay Pipe	1970	19	Charles St	4	4	16	<Null>	<Null>	3200
Priority 2	B1	SA0167-SA0132	24"	Reinforced Concrete Pipe	1930	351	Charles St	5	5	25	<Null>	<Null>	5200
Priority 3	C1	SA0213-SA0101	15"	Vitrified Clay Pipe	1880	186	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 3	C1	SA0214A-SA0213	15"	Vitrified Clay Pipe	1880	69	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 3	C1	SA0214-SA0214A	15"	Vitrified Clay Pipe	1880	101	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 3	C1	SA0215-SA0214	15"	Vitrified Clay Pipe	1880	277	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 3	C1	SA0216-SA0215	15"	Vitrified Clay Pipe	1900	174	Railroad St	5	5	25	<Null>	<Null>	5200
Priority 3	C1	SA0217-SA0216	15"	Vitrified Clay Pipe	1900	468	Railroad St	5	4	20	2113	3B24	3B25
Priority 3	C1	SA0218-SA0217	15"	Vitrified Clay Pipe	1900	269	Sherman St	5	4	20	3521	3811	3A21
Priority 3	C1	SA0219-SA0218	12"	Vitrified Clay Pipe	1900	371	Sherman St	4	5	20	<Null>	<Null>	5200
Priority 3	C1	SA0222-SA0219	10"	Vitrified Clay Pipe	1900	369	W John St	4	5	20	<Null>	<Null>	5200
Priority 4	D1	SA0245-SA0105	12"	Vitrified Clay Pipe	1880	31	Newberry Ave	4	5	20	<Null>	<Null>	5200
Priority 4	D1	SA0246-SA0245	12"	Reinforced Concrete Pipe	1880	363	W Harrie St	4	5	20	<Null>	<Null>	5200
Priority 4	D1	SA0247-SA0246	12"	Reinforced Concrete Pipe	1900	424	W Harrie St	4	5	20	<Null>	<Null>	5200
Priority 4	D1	SA0248-SA0247	12"	Reinforced Concrete Pipe	1900	303	W Harrie St	4	5	20	<Null>	<Null>	5200
Priority 4	D1	SA0249A-SA0230	12"	Reinforced Concrete Pipe	1900	203	W Harrie St	2	5	10	<Null>	<Null>	5200
Priority 4	D1	SA0249-SA0248	12"	Reinforced Concrete Pipe	1900	240	W Harrie St	2	5	10	<Null>	<Null>	5200
Wish List		SA0055-SA0166	12"	Reinforced Concrete Pipe	1880	161	E John St	3	5	15	<Null>	<Null>	5200
Wish List		SA0101-TWP5	30"	Reinforced Concrete Pipe	1880	372	Newberry Ave	5	5	25	<Null>	<Null>	5200
Wish List		SA0102-SA0101	24"	Reinforced Concrete Pipe	1880	234	Newberry Ave	5	5	25	<Null>	<Null>	5200
Wish List		SA0103-SA0102	24"	Reinforced Concrete Pipe	1880	371	Newberry Ave	5	5	25	<Null>	<Null>	5200

Priority	Label	Pipe	Size	Material	Install Year	Length (ft)	Street	Consequence of Failure	Probability of Failure	Business Risk	Quick Rate Structural	Quick Rate O&M	Quick Rate Overall
Wish List		SA0104-SA0103	24"	Reinforced Concrete Pipe	1880	394	Newberry Ave	5	5	25	<Null>	<Null>	5200
Wish List		SA0105-SA0104	24"	Reinforced Concrete Pipe	1880	385	Newberry Ave	5	5	25	<Null>	<Null>	5200
Wish List		SA0106-SA0105	24"	Reinforced Concrete Pipe	1900	378	Newberry Ave	5	5	25	<Null>	<Null>	5200
Wish List		SA0138A-SA0137A	10"	Vitrified Clay Pipe	1930	228	E McMillan Ave	3	5	15	<Null>	<Null>	4200
Wish List		SA0138-SA0138A	8"	Vitrified Clay Pipe	1930	106	E McMillan Ave	2	5	10	<Null>	<Null>	4200
Wish List		SA0147C-SA0147D	8"	Vitrified Clay Pipe	1930	455	E Victory Way	2	5	10	<Null>	<Null>	4200
Wish List		SA0147D-SA0145	10"	Vitrified Clay Pipe	1930	446	E Victory Way	3	5	15	<Null>	<Null>	4200
Wish List		SA0148-SA0135	18"	Reinforced Concrete Pipe	1930	489	E Harrie St	5	5	25	<Null>	<Null>	5200
Wish List		SA0149-SA0148	12"	Reinforced Concrete Pipe	1900	39	E Harrie St	4	5	20	<Null>	<Null>	5200
Wish List		SA0150-SA0148	12"	Vitrified Clay Pipe	1900	401	Parmelee St	4	5	20	<Null>	<Null>	5200
Wish List		SA0156-SA0126	12"	Reinforced Concrete Pipe	1880	155	E Helen St	4	5	20	<Null>	<Null>	5200
Wish List		SA0157-SA0156	12"	Reinforced Concrete Pipe	1880	189	E Helen St	4	5	20	<Null>	<Null>	5200
Wish List		SA0158-SA0158A	12"	Reinforced Concrete Pipe	1880	159	Alley East of Newberry Ave	3	5	15	<Null>	<Null>	5200
Wish List		SA0159-SA0158	12"	Reinforced Concrete Pipe	1880	326	Alley East of Newberry Ave	4	5	20	<Null>	<Null>	5200
Wish List		SA0160-SA0131	8"	Vitrified Clay Pipe	1930	399	Alley North of E John St	4	5	20	<Null>	<Null>	4200
Wish List		SA0163-SA0132	12"	Vitrified Clay Pipe	1930	248	E John St	4	5	20	<Null>	<Null>	4200
Wish List		SA0164-SA0163	12"	Vitrified Clay Pipe	1930	181	E John St	4	5	20	<Null>	<Null>	4200
Wish List		SA0165-SA0164	12"	Vitrified Clay Pipe	1880	409	E John St	3	5	15	<Null>	<Null>	5200
Wish List		SA0166-SA0165	12"	Vitrified Clay Pipe	1880	95	E John St	3	5	15	<Null>	<Null>	5200
Wish List		SA0172-SA0149	12"	Reinforced Concrete Pipe	1900	409	E Harrie St	4	5	20	<Null>	<Null>	5200
Wish List		SA0173-SA0172	12"	Reinforced Concrete Pipe	1880	201	E Harrie St	4	5	20	<Null>	<Null>	5200
Wish List		SA0174-SA0150	10"	Vitrified Clay Pipe	1900	421	E McMillan Ave	3	5	15	<Null>	<Null>	5200
Wish List		SA0175-SA0174	10"	Vitrified Clay Pipe	1900	202	E McMillan Ave	3	5	15	<Null>	<Null>	5200
Wish List		SA0182-SA0181A	12"	Vitrified Clay Pipe	1930	232	Vulcan St	4	5	20	<Null>	<Null>	4200
Wish List		SA0183-SA0182	12"	Vitrified Clay Pipe	1930	380	Vulcan St	4	5	20	<Null>	<Null>	4200
Wish List		SA0184-SA0183	12"	Vitrified Clay Pipe	1930	357	Vulcan St	4	5	20	<Null>	<Null>	4200
Wish List		SA0185-SA0184	12"	Vitrified Clay Pipe	1930	349	Vulcan St	4	5	20	<Null>	<Null>	4200
Wish List		SA0186-SA0185	10"	Reinforced Concrete Pipe	1930	464	Vulcan St	3	5	15	<Null>	<Null>	5200
Wish List		SA0188-SA0182	10"	Vitrified Clay Pipe	1930	589	E Harrie St	3	5	15	<Null>	<Null>	4200
Wish List		SA0197-SA0196A	10"	Vitrified Clay Pipe	1930	806	East Limits St	3	5	15	<Null>	<Null>	4200
Wish List		SA0202-SA0203	10"	Vitrified Clay Pipe	1930	300	E Avenue B	3	5	15	<Null>	<Null>	4200
Wish List		SA0203-SA0185	10"	Vitrified Clay Pipe	1930	306	E Avenue B	3	5	15	<Null>	<Null>	4200
Wish List		SA0208-SA0185	10"	Vitrified Clay Pipe	1930	294	E Avenue B	3	5	15	<Null>	<Null>	4200
Wish List		SA0209-SA0208	10"	Vitrified Clay Pipe	1930	300	E Avenue B	3	5	15	<Null>	<Null>	4200
Wish List		SA0224-SA0223	10"	Vitrified Clay Pipe	1900	365	W Truman St	4	4	16	3B26	1K00	3B26
Wish List		SA0225-SA0224	10"	Vitrified Clay Pipe	1900	135	W Truman St	4	2	8	0	1A00	1A00
Wish List		SA0226-SA0223	10"	Vitrified Clay Pipe	1900	176	W Truman St	3	4	12	3222	331B	3522
Wish List		SA0227-SA0226	10"	Vitrified Clay Pipe	1900	371	Washington Blvd	3	5	15	<Null>	<Null>	5200
Wish List		SA0231-SA0230	10"	Vitrified Clay Pipe	1900	182	Alley South of W Harrie St	3	5	15	<Null>	<Null>	5200
Wish List		SA0232-SA0231	10"	Vitrified Clay Pipe	1900	105	Alley South of W Harrie St	3	5	15	<Null>	<Null>	5200
Wish List		SA0233-SA0232	10"	Vitrified Clay Pipe	1900	87	Washington Blvd	3	5	15	<Null>	<Null>	5200
Wish List		SA0234A-SA0234	10"	Vitrified Clay Pipe	1900	401	Alley South of W Harrie St	3	5	15	<Null>	<Null>	5200
Wish List		SA0234-SA0233	10"	Vitrified Clay Pipe	1900	161	Alley South of W Harrie St	3	5	15	<Null>	<Null>	5200
Wish List		SA0239-SA0238	12"	Reinforced Concrete Pipe	1880	241	W John St	4	5	20	<Null>	<Null>	5200
Wish List		SA0240C-SA0239	12"	Reinforced Concrete Pipe	1880	398	W John St	2	5	10	<Null>	<Null>	5200
Wish List		SA0242-SA0241	12"	Vitrified Clay Pipe	1880	239	W Truman St	4	5	20	<Null>	<Null>	5200

Priority	Label	Pipe	Size	Material	Install Year	Length (ft)	Street	Consequence of Failure	Probability of Failure	Business Risk	Quick Rate Structural	Quick Rate O&M	Quick Rate Overall
Wish List		SA0243-SA0242	12"	Vitrified Clay Pipe	1900	419	W Truman St	3	5	15	<Null>	<Null>	5200
Wish List		SA0244-SA0243	12"	Vitrified Clay Pipe	1900	275	W Truman St	2	5	10	<Null>	<Null>	5200
Wish List		SA0250-SA0246	12"	Reinforced Concrete Pipe	1900	179	Phelps St	4	5	20	<Null>	<Null>	5200
Wish List		SA0251A-SA0251	12"	Reinforced Concrete Pipe	1900	130	Robinson St	4	5	20	<Null>	<Null>	5200
Wish List		SA0251-SA0250	12"	Reinforced Concrete Pipe	1900	437	Alley North of McMillan	4	5	20	<Null>	<Null>	5200
Wish List		SA0256A-SA0256	12"	Reinforced Concrete Pipe	1900	172	W McMillan Ave	4	5	20	<Null>	<Null>	5200
Wish List		SA0256-SA0106	12"	Vitrified Clay Pipe	1900	56	Newberry Ave	4	5	20	<Null>	<Null>	5200
Wish List		SA0257-SA0256A	12"	Reinforced Concrete Pipe	1900	221	W McMillan Ave	4	5	20	<Null>	<Null>	5200
Wish List		UNK_S0239-SA0239	12"	Reinforced Concrete Pipe	1880	200	Phelps St	2	5	10	<Null>	<Null>	5200

**Note a <Null> under quick rating means a pipe has not been televised; the overall quick rating was estimated based off of the age, material, and knowledge of the condition*

Attachment E

Overburdened Community Status Form

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

OVERBURDENED AND SIGNIFICANTLY OVERBURDENED COMMUNITY STATUS DETERMINATION WORKSHEET

The following data is required from each State Revolving Fund (SRF) applicant requesting a determination for overburdened and significantly overburdened community status.

The most recent census and tax data are available in a searchable table on EGLE's State Revolving Fund – Overburdened Community Definition and Scoring Criteria Development webpage along with an excel worksheet to help determine blended Median Annual Household Income (MAHI) and blended taxable value per capita for regional systems. The MAHI and taxable value per capita table will be used to make all FY24 determinations. Applicants are encouraged to visit this page prior to completing this form to see if they qualify based on MAHI (blended MAHI if applicable) or taxable value per capita (blended taxable value per capita if applicable) alone. If so, they only need to fill out lines 1 and 2 of this form, electronically sign it on page 2, and submit.

Alternately, **if the applicant's MAHI or blended MAHI is above the state average - $63,498 for FY24 – they cannot be determined as being overburdened or significantly overburdened for FY24 funding and should not complete or turn in this form**.

For applicants whose MAHI or blended MAHI is below $63,498 but do not automatically qualify based on MAHI or taxable value per capita alone, please complete the entire form and return to:

Mark Conradi
conradim@michigan.gov

Name of Applicant

Village of Newberry

Please check the box indicating which funding source this determination is for:

DWSRF ☐

CWSRF ☑

1. Is this a regional system? A regional system refers to any system that serves more than one municipality (cities, townships, and/or villages)

Yes ☑
No ☐

If yes, refer to the instructions at the end of this form to complete calculations for a blended MAHI and blended taxable value per capita. Additionally, page 3 of this form will also need to be completed.

2. Median Annual Household Income from table on the overburdened webpage (blended if applicable)

   $52,734

3. Taxable Value Per Capita from table on the overburdened webpage (blended if applicable)

   $23,836

4. Total amount of anticipated debt for the proposed project (amount of loan requested for FY24 loan)

   $14,442,000

5. Annual payments on the existing debt for the system

   $247,250

6. Total operation, maintenance, and replacement expenses (OM&R) for the system on an annual basis

   $981,852

7. Number of residential equivalent users (REUs) in the system

   2,705

***I (Allison Watkins) hereby certify that the information in this form is complete, true, and correct to the best of my knowledge.**

Allison Watkins 03/31/2023

Signature Date

For determinations made using anticipated debt, a final determination will be made based upon the awarded loan amount and not the anticipated amount provided on this form.

Regional System Breakdown (If applicable)

Name of municipality	Percentage of flow
Village of Newberry	30.9%
Name of municipality	Percentage of flow
McMillan Township	11.3%
Name of municipality	Percentage of flow
Pentland Township	57.8%
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow
Name of municipality	Percentage of flow

If more spaces are needed, please include them in the email along with this submission. Percentages of flow must add up to 100%.

Overburdened and Significantly Overburdened Calculation Worksheet

2. Median Annual Household Income (blended if necessary)	$52,734		
3. Taxable Value Per Capita (blended if necessary)	$23,836		
4. Amount of anicipated debt - FY24 SRF loan only	$14,442,000		
Terms	20		
Rate	2.75%		
New Annual debt from SRF loan	$948,431		
5. Annual Payments on existing debt	$247,250		
6. Total OM&R	$981,852		
7. Number of REUs	2705		
Total Annual Cost	$2,177,533		
Annual User Cost	$805		
MAHI Threshold $ amount	**$527**		
			Result
125% of Federal Poverty MAHI	$37,500	**Significantly Overburdened**	**NO**
Lowest 10% TVPC	$15,170	**Significantly Overburdened**	**NO**
Lowest 20% TVPC	$22,920	**Overburdened without calculation needed**	**NO**
Michigan MAHI	$63,498	**Overburdened with calculation**	**YES**

Regional Systems - Blended MAHI and TVPC Calculations					
Name of Municipality	**Percentage of Flow (Total must = 100)**	**Taxable Value Per Capita (TVPC)**	**Median Annual Household Income (MAHI)**	**TVPC Percentage (automatically calculated)**	**MAHI Percentage (Automatically calculated)**
Village of Newberry	30.92%	$11,145	$40,893	$3,446	$12,645
McMillan Township	11.30%	$31,109	$44,384	$3,514	$5,014
Pentland Township	57.78%	$29,206	$60,703	$16,876	$35,075
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
				$0	$0
Total	**100%**			**Blended TVPC**	**Blended MAHI**
				$23,836	**$52,734**

Instructions for Regional Systems (single municipality systems skip this tab and click the "Overburdened calculations" tab at the bottom of this page)

For blended taxable value per capita and blended MAHIs use the searchable chart on EGLE's Overburdened Community Definition and Scoring Criteria website. The chart is titled, "Fiscal Year 2024 Overburdened Median Annual Household Income (MAHI) and Taxable Values List For SRF Projects; the State of Michigan MAHI is $63,498 for FY24 Projects." Clicking the + sign next to the title will open the table and a search box will appear at the top right of the table.

-Fill in the municipalities that make up the regional system in Column A
-Enter the percentage of flow each municipality contributes to the system in column B. The total in cell B18 must equal 100%
-Use the search function to find the municipality's taxable value per capita on the Overburdened website listed above and enter it in column C
-Use the search function to find the municipality's MAHI on the Overburdened website listed above and enter it in column D

The sheet will calculate the blended TVPC for the regional system in cell E19 and blended MAHI in cell F19. Click the "Overburdened calculations" tab below to complete the calculations. The blended TVPC and blended MAHI numbers will be automatically filled in.