



BOARD OF TRUSTEES
Regular Meeting
April 13, 2022
7:00 p.m.

1. CALL MEETING TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL
4. APPROVAL OF AGENDA
5. PRESENTATIONS
6. PUBLIC HEARINGS
7. PUBLIC COMMENT: Restricted to three minutes regarding items on this agenda
Note: This is an opportunity for comments only, questions to the Board will not be answered at this time. For specific answers to questions, please call Township Hall (989-772-4600)
8. CLOSED SESSION
 - A. Closed session with litigation counsel regarding the cases of James and Jeremy Zalud v Charter Township of Union, now pending in Isabella County Circuit Court Case No. 20-016281-CK and Concerned Citizens of Union Township v Charter Township of Union, now pending in Isabella County Circuit Court Case No. 20-016292-CZ.
 - B. Closed session with Township counsel to discuss confidential correspondence from the Township's counsel, subject to the attorney client privilege.
9. REPORTS/BOARD COMMENTS
 - A. Current List of Boards and Commissions – Appointments as needed (See application in packet)
 - B. Board Member Reports
10. CONSENT AGENDA
 - A. Communications
 - B. Minutes – March 23, 2022 – Regular Meeting
 - C. Accounts Payable
 - D. Payroll
 - E. Meeting Pay
 - F. Fire Reports
 - G. 2022 Township Brine Participation Contract with Isabella County Road Commission
 - H. 2022 Sanitary Sewer Manhole Rehabilitation Award

I. 2022 Isabella County Road Commission (ICRC) Gravel Road Contract

11. NEW BUSINESS

- A. Discussion/Action: (Smith) Carriage Hill Estates #1 and #2 Subdivision Paving Special Assessment District Resolution #4
- B. Discussion/Action: (Smith) River Road Control Valve Station Booster Pump Installation Construction Contract
- C. Discussion/Action: (Nanney) Second Reading and Adoption of the PTXT21-02 Zoning Ordinance Amendments

12. EXTENDED PUBLIC COMMENT: Restricted to 5 minutes regarding any issue

Note: This is an opportunity for comments only, questions to the Board will not be answered at this time. For specific answers to questions, please call Township Hall (989-772-4600)

13. MANAGER COMMENTS

14. FINAL BOARD MEMBER COMMENT

15. ADJOURNMENT

Board Expiration Dates

Planning Commission Board Members (9 Members) 3 year term			
#	F Name	L Name	Expiration Date
1-BOT Representative	James	Thering	11/20/2024
2-Chair	Phil	Squatrito	2/15/2023
3-Vice Chair	Ryan	Buckley	2/15/2025
4-Secretary	Doug	LaBelle II	2/15/2025
5 - Vice Secretary	Tera	Albrecht	2/15/2024
6	Stan	Shingles	2/15/2024
7	Paul	Gross	2/15/2025
8	Jack	Williams	2/15/2023
9	Jessica	Lapp	2/15/2023
Zoning Board of Appeals Members (5 Members, 2 Alternates) 3 year term			
#	F Name	L Name	Expiration Date
1- PC Rep	Ryan	Buckley	2/15/2022
2 - Chair	Andy	Theisen	12/31/2022
3 - Vice Chair	Liz	Presnell	12/31/2022
4 - Secretary	vacant seat		12/31/2022
5 -	Brandon	LaBelle	12/31/2022
Alt. #1	vacant seat		12/31/2022
Alt. #2	vacant seat		2/15/2021
Board of Review (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Doug	LaBelle II	12/31/2022
2	Sarvjit	Chowdhary	12/31/2022
3	Bryan	Neyer	12/31/2022
Alt #1	Randy	Golden	12/31/2022
Construction Board of Appeals (3 Members) 2 year term			
#	F Name	L Name	Expiration Date
1	Colin	Herren	12/31/2023
2	Joseph	Schafer	12/31/2023
3	Andy	Theisen	12/31/2023
Hannah's Bark Park Advisory Board (2 Members from Township) 2 year term			
1	Mark	Stuhldreher	12/31/2022
2	John	Dinse	12/31/2023
Chippewa River District Library Board 4 year term			
1	Ruth	Helwig	12/31/2023
2	Lynn	Laskowsky	12/31/2025



Board Expiration Dates

EDA Board Members (9 Members) 4 year term			
#	F Name	L Name	Expiration Date
1-BOT Representative	Bryan	Mielke	11/20/2024
2	Thomas	Kequom	4/14/2023
3	James	Zalud	4/14/2023
4	Richard	Barz	2/13/2025
5	Robert	Bacon	1/13/2023
6	Marty	Figg	6/22/2022
7	Cheryl	Hunter	6/22/2023
8	Jeff	Sweet	2/13/2025
9	David	Coyne	3/26/2026
Mid Michigan Area Cable Consortium (2 Members)			
#	F Name	L Name	Expiration Date
1	Kim	Smith	12/31/2022
2	vacant seat		
Cultural and Recreational Commission (1 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1	Robert	Sommerville	12/31/2022
Sidewalks and Pathways Prioritization Committee (2 year term -PC Appointments)			
#	F Name	L Name	Expiration Date
1 - BOT Representative	Kimberly	Rice	11/20/2024
2 - PC Representative	Mike	Darin	8/15/2022
3 - Township Resident	Jeff	Siler	8/15/2023
4 - Township Resident	Jeremy	MacDonald	10/17/2022
5 - Member at large	Phil	Hertzler	8/15/2023
Mid Michigan Aquatic Recreational Authority (2 seat from Township) 3 year term			
#	F Name	L Name	Expiration Date
1-City of Mt. Pleasant	John	Zang	12/31/2023
2-City of Mt. Pleasant	Judith	Wagley	12/31/2022
1-Union Township	Stan	Shingles	12/31/2023
2-Union Township	Allison	Chiodini	12/31/2022
1-Mt. Pleasant Schools	Lisa	Diaz	12/31/2022

**APPOINTMENT TO BOARDS & COMMISSIONS
OF CHARTER TOWNSHIP OF UNION
APPLICATION**

Name: Breanne Moegeberg Date: 3-12-22
Address: 6011 S Bamber Rd Mt Pleasant
Phone (home) — (cell) 989-309-9118 (work) —
Email: bmoeggy@yahoo.com
Occupation: Self-employed childcare business owner

Please State in order of preference, area(s) of interest:


- | | | |
|------------|--------------------------------|---|
| <u>X 2</u> | Zoning Board of Appeals | Must be a Union Township Resident |
| <u>—</u> | Board of Review | Must be a Union Township Resident |
| <u>X 1</u> | Planning Commission | Must be a Union Township Resident |
| <u>—</u> | EDA | Must meet one of the following qualifications:
<u>—</u> Property owner in East or West DDA
<u>—</u> Property owner in East or West DDA
<u>—</u> Resident in Union Township |
| <u>—</u> | OTHER *Specify Board: <u>—</u> | |

Please state reason(s) for interest in above board(s):

As a community activist and a business owner, I have a passion and desire to help our county grow in a positive manner.

Other information that you feel would be useful in your application review (i.e., past experience, past board membership, etc. A resume is encouraged with the application):

Please see attached.

Signature:  Date: 3-12-22

Breanne Moeggenberg

611 S Bamber Rd
Mt Pleasant, MI 48858
989.309.9118
bmoeggy@yahoo.com

12th March 2022

Charter Township of Union

Zoning Board of Appeals
2010 S Lincoln Rd
Mt Pleasant, MI 48858

To Whom It May Concern,

As a community activist and a small business owner here in Union Township, I have a passion and desire to help our area grow in a positive fashion so that the residents are empowered with economic opportunities that safely and effectively lead to county growth. Thus, I am providing an application for an appointment to the Zoning Board of Appeals or Planning Commission.

In the attached Resume you will find that I have past experience working on various Boards including the writing and proposals of bylaws. Beyond this, reading and understanding rules and ordinances has been a necessity as a childcare business owner but has also become useful on many avenues recently as we stretched through the last two years of pandemic promulgations.

While I realize my personal life views may vary from some of those that review this application, it is my belief that diversity in representation and decisions brings the most inclusion to the table. If my past and recent experience would be beneficial to a position on the Zoning Board of Appeals or Planning Commission, I would greatly appreciate an opportunity to meet with you and discuss my applicability.

Sincerely,

Breanne Moeggenberg

Breanne Moeggenberg

611 S BAMBER RD
MT PLEASANT, MI 48858
989.309.9118
BMOEGGY@YAHOO.COM

EDUCATION

Alma College, Alma, MI

— *Exercise and Health Science*

September 1997 - April 2001

WORK EXPERIENCE

Aunt Bree's Day Care

Midland to Mt Pleasant, MI

— *Owner/SOM Licensed Childcare Provider*

February 2017 - PRESENT

January 2003 - September 2010

Starting as a State of Michigan family sized childcare business, operated from the home, now a group sized childcare business serving and caring for up to twelve children daily and contracting five staff.

BOARD EXPERIENCE

Moms for Liberty - Isabella County, MI

Mt Pleasant, MI

— *Chapter Chair*

2022 - PRESENT

A recently formed group, to the National Organization Moms for Liberty, that is dedicated to fighting for the survival of America by unifying, educating and empowering parents to defend their parental rights at all levels of government.

Amateur Hockey Association of Mt Pleasant

Mt Pleasant, MI

— *Secretary*

2009 - 2012

An association intended to promote and organize hockey teams while maintaining the programs.

SKILLS

- Public Speaking
- Organizing fundraising, marketing and rally events
- Creating, organizing and implementing procedures and bylaws

REFERENCES

Jeff Bean

6675 N Whiteville Rd
Rosebush, MI
517.202.9421
jeff@jeffbean.net

Dawn Betha

407 W Drive
Mt Pleasant, MI
760.519.1215
dawnbetha@yahoo.com

Jim Horton

3089 Hunters Trail
Mt Pleasant, MI
989.621.1534
jim@rxlegalpc.com

2022 CHARTER TOWNSHIP OF UNION
Board of Trustees
Regular Meeting Minutes

A regular meeting of the Charter Township of Union Board of Trustees was held on March 23, 2022, at 7:00 p.m. at the Union Township Hall.

Meeting was called to order at 7:00 p.m.

Cody moved **Hauck** supported to appoint Treasurer Rice to chair the meeting in Supervisor Mielke's absence. **Vote: Ayes: 6 Nays: 0. Motion carried.**

Roll Call

Present:

Clerk Cody, Treasurer Rice, Trustee Bills, Trustee Brown, Trustee Hauck, and Trustee Thering

Excused:

Supervisor Mielke

Approval of Agenda

Bills moved **Cody** supported to approve the agenda as presented. **Vote: Ayes: 6 Nays: 0. Motion carried.**

Public Hearings

N/A

Presentation

N/A

Public Comment

Open: 7:01 p.m.

No comments were offered.

Closed: 7:01 p.m.

Reports/Board Comments

A. Current List of Boards and Commissions – Appointments as needed

B. March Monthly Activity Report

Monthly report will be sent via email.

C. Planning Commission, EDA, Sidewalks, and ZBA updates by Community and Economic Development Director

Nanney gave updates on the EDA Grant program; Sidewalk and Pathways next meeting is scheduled for April 26th; gave updates on the Planning Commission meeting.

D. Board Member Reports

Bills – Gave updates on the Council of Governance meeting and the Isabella County Board of Commissioners meeting.

Hauck – Gave updates on the Council of Governance and Isabella County Road Commission meeting.

Consent Agenda

- A. Communications
- B. Minutes – March 9, 2022 – Regular Meeting
- C. Accounts Payable
- D. Payroll
- E. Meeting Pay
- F. Fire Reports
- G. Well #3 Maintenance & Repair
- H. 2022 Water Reliability Study Professional Engineering Service Contract

Hauck moved **Brown** supported to approve the consent agenda as presented. **Vote: Ayes: 6 Nays: 0. Motion carried.**

New Business

A. Discussion/Action: (Nanney) Introduction and First Reading of the PTXT21-02 Solar Energy Zoning Ordinance Amendments

Bills moved **Brown** supported to introduce and conduct a First Reading for the proposed PTXT21-02 Zoning Ordinance text amendments to increase the maximum allowable height and to adjust the minimum setback standards for ground-mounted solar energy facilities. **Vote: Ayes: 6 Nays: 0. Motion carried.**

B. Discussion/Action: (Stuhldreher) Resolution of Intent – Mission Creek Park Pathway Project

Brown moved **Bills** supported to adopt a resolution of intent of the Board of Trustees to collaborate with the City of Mount Pleasant to fund the 2023 Mid-Michigan/GKB Pathway North Connection Project. **Roll Call Vote: Ayes: Cody, Rice, Bills, Brown, Hauck, and Thering. Nays: 0. Motion carried.**

C. Discussion/Action: (Board of Trustees) Policy Governance 3.3 Board Member’s Code of Conduct

Discussion by the Board

EXTENDED PUBLIC COMMENT: RESTRICTED TO 5 MINUTES REGARDING ANY ISSUE

Open 7:32 p.m.

No comments were offered.

Closed: 7:33 p.m.

MANAGER COMMENTS

No comments were offered.

FINAL BOARD MEMBER COMMENTS

Brown – Commented on the Lincoln Rd. project and Planning Commission appointments

Thering – Encouraged the Board to attend the Policy Governance Boot Camp.

Bills – Looking forward to better Spring weather.

Hauck – Asked for an update on legal matters at the next meeting.

ADJOURNMENT

Hauck moved **Bills** supported to adjourn the meeting at 8:37 p.m. **Vote: Ayes: 6 Nays: 0.**
Motion carried.

APPROVED BY:

Lisa Cody, Clerk

Bryan Mielke, Supervisor

(Recorded by Tera Green)

DRAFT

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
Bank 101 POOLED CHECKING						
04/05/2022	101	512 (E)	01105	MASTERCARD	MASTERCARD-CRAWFORD	66.16
					MASTERCARD-DEARING	1,586.80
					MASTERCARD-RADER	67.80
					MASTERCARD-MCBRIDE	546.39
					MASTERCARD-FUSSMAN	49.20
					MASTERCARD-STUHLREHER	86.57
					MASTERCARD-NANNEY	30.00
					MASTERCARD-CODY	10.25
					MASTERCARD-SMITH	25.00
					MASTERCARD-BEBOW	155.87
					MASTERCARD-WALDRON	391.45
					MASTERCARD-OCKERT	252.65
					MASTERCARD-COFFELL	184.66
					MASTERCARD-TEALL	215.00
					MASTERCARD-THEISEN	408.39
					MASTERCARD-GALLINAT	385.20
						<u>4,461.39</u>
04/05/2022	101	513 (E)	01105	VOID		
				Void Reason: Created From Check Run Process		
03/25/2022	101	514 (E)	00527	PITNEY BOWES GLOBAL FINANCIAL LLC	RELOAD POSTAGE METER RESERVE ACCOUNT	3,000.00
04/07/2022	101	515 (E)	00146	CONSUMERS ENERGY	2010 S LINCOLN	1,419.80
					800 CRAIG HILL	62.98
					4520 E RIVER	364.45
					1633 S LINCOLN	313.12
					5319 E AIRPORT	87.71
					1046 S MISSION	140.72
					1605 SCULLY	72.81
					4511 E RIVER	12,328.82
					2279 S MERIDIAN PUMP HOUSE	240.41
					2279 S MERIDIAN PUMP HOUSE	219.09
					2279 S MERIDIAN	1,254.47
					2279 S MERIDIAN	1,288.23
					2055 ENTERPRISE	391.86
					2270 NORTHWAY	36.96
					STREET LIGHTS	1,552.26
					2010 S LINCOLN L4	50.92
					48858 LED LIGHT	216.45
					5228 S ISABELLA	7,484.97
						<u>27,526.03</u>
04/07/2022	101	516 (E)	00146	VOID		
				Void Reason: Created From Check Run Process		
04/05/2022	101	23561	00337	ISABELLA COUNTY TREASURER	DOG LICENSE RENEWALS	70.00
04/13/2022	101	23562	01358	21ST CENTURY MEDIA-MICHIGAN	BOT/BOR/PUBLIC NOTICE	1,217.63
04/13/2022	101	23563	00020	JAMES ALWOOD	WELLSITE LEASE--MARCH 2022	334.92
04/13/2022	101	23564	01703	AMAZON CAPITAL SERVICES	ABSENTEE BALLOT NUMBER STAMPER	27.58
					SAMSUNG GALAXY TABLET CASE	29.88
					FIRST AID KITS FOR WTR/SWR TRUCKS	148.00
					LABELING TAPE FOR WWTP	72.54
					PIPETTE TIPS	145.06
						<u>145.06</u>

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
04/13/2022	101	23565	01240	BRAUN KENDRICK FINKBEINER PLC	GENERAL LEGAL FEES-FEBRUARY 2022 CONCERNED CITIZENS-FEBRUARY 2022 ZALUD LITIGATION-FEBRUARY 2022	1,336.00 405.00 1,515.00 <u>3,256.00</u>
04/13/2022	101	23566	00095	C & C ENTERPRISES, INC.	C-FOLD TOWELS FOR WWTP	97.00
04/13/2022	101	23567	01253	CAPITAL EQUIPMENT CLARE LLC	REPAIR BOSS SNOW PLOW CYLINDER OIL LEAK	495.89
04/13/2022	101	23568	01309	CGS, INC	FIRST AID/CPR/AED/TRAINING-3/9/22	1,098.50
04/13/2022	101	23569	00722	CHARTER TOWNSHIP OF UNION	MCDONALD PK CONCESSIONS Q1 2022 UTILITY BILLING WWTP Q1 2022 Q1 UTILITY BILLING-5243 JONATHON LANE	408.13 1,840.32 48.00 <u>2,296.45</u>
04/13/2022	101	23570	00129	CMS INTERNET, LLC	SURFACE PRO COVER-GALLINAT NEW SURFACE PRO/DOCK-GALLINAT	44.99 1,618.96 <u>1,663.95</u>
04/13/2022	101	23571	01515	LISA M CODY	MILEAGE TO ELECTION TRAINING	130.46
04/13/2022	101	23572	00155	COYNE OIL CORPORATION	FUEL IN TOWNSHIP VEHICLES-FEB 2022 FUEL IN TOWNSHIP VEHICLES-MAR 2022 FUEL IN TOWNSHIP VEHICLES-MAR 2022	757.50 1,648.75 1,309.61 <u>3,715.86</u>
04/13/2022	101	23573	01171	DBI BUSINESS INTERIORS	BINDERS-TWP HALL FLASHDRIVE/PAGE DIVIDERS/MECHANICAL PENC PAPER FOR TAX BILLS BINDERS/PENS/POWER STRIP PENS & BATTERY PAPER/NOTE PADS STICKY NOTES TWP HALL STAPLER & ENVELOPE GLUE CREDIT FOR RETURNED SUPPLIES	15.66 60.15 65.90 200.52 28.20 86.99 19.99 75.94 (195.53) <u>357.82</u>
04/13/2022	101	23574	00201	ELHORN ENGINEERING COMPANY	BULK CHLORINE/LIQUID AQUADENE	4,340.50
04/13/2022	101	23575	01774	ERIC MILLER	NMCOA TRAINING-MEAL REIMB	17.58
04/13/2022	101	23576	00209	ETNA SUPPLY COMPANY	2" OMNI WATER METER UNAPPLIED CREDIT-WARRANTY PUMP	1,700.00 (131.00) <u>1,569.00</u>
04/13/2022	101	23577	00249	GILL-ROY'S HARDWARE	ROPE & SWIVEL EYE SNAP FOR FLAG	37.15
04/13/2022	101	23578	00257	GOURDIE-FRASER, INC.	PUMP STN #7/COLLECTION SYSTEM UPGRADES	630.00
04/13/2022	101	23579	00261	GRAINGER	WATER HAMMER ARRESTOR	184.22
04/13/2022	101	23580	01721	HYDROCORP	CROSS CONNECTION CONTROL PRG/RESIDENTIAL CROSS CONNECTION CONTROL PRG/NON RESIDEN	2,650.00 950.00 <u>3,600.00</u>
04/13/2022	101	23581	01765	LINCOLN RECEPTION CENTER	ROOM RENTAL FOR OFFSITE PC MEETING	300.00
04/13/2022	101	23582	00391	MAPPING SOLUTIONS, LLC	MAP INFO RENEWAL FOR SINGLE USER	545.00
04/13/2022	101	23583	00142	MICHIGAN OFFICE SOLUTIONS	PRINTER/COPIER SERV. AGREEMENT-APR 2022	974.51
04/13/2022	101	23584	00472	MUNICIPAL CODE CORPORATION	MUNICODE ORDINANCE UPDATES	823.94

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
04/13/2022	101	23585	00494	NORTH CENTRAL LABORATORIES	BUFFER SOLUTION/VIALS/AMMONIA TEST N TUB	4,098.57
					CITRANOX DETERGENT	127.55
					POTASSIUM PHOSPHATE & AMMONIA	110.25
						<u>4,336.37</u>
04/13/2022	101	23586	01631	NOLAN OCKERT	MILEAGE REIMBURSEMENT	21.76
					MILEAGE REIMBURSEMENT	21.76
						<u>43.52</u>
04/13/2022	101	23587	00131	PERCEPTIVE CONTROLS, INC	WWTP SUPPORT SERVICES	1,890.00
					LABOR TO UPDATE TERTIARY 3	5,310.00
						<u>7,200.00</u>
04/13/2022	101	23588	00570	RS TECHNICAL SERVICES, INC.	PUMP TUBE ASSEMBLY	448.72
04/13/2022	101	23589	00601	KIMBERLY SMITH	MILEAGE REIMBURSEMENT	195.98
04/13/2022	101	23590	01254	LARRY M SOMMER	MEAL REIMBURSEMENT-NMCOA	14.29
					NMCOA TRAINING MEAL REIMB	16.41
						<u>30.70</u>
04/13/2022	101	23591	01777	SPECTRUM PRINTERS INC.	ABSENTEE ELECTION SUPPLIES	2,684.96
04/13/2022	101	23592	00629	STU'S ELECTRIC MOTOR	FERRIC PUMP MOTOR	693.71
					PUMP 4 BALL BEARING & LABOR	201.00
						<u>894.71</u>
04/13/2022	101	23593	01654	TRACE ANALYTICAL LABORATORIES, INC.	SAMPLE HANDLING, STORAGE & DISPOSAL	22.00
04/13/2022	101	23594	00668	UNITED PARCEL SERVICE	WATER SAMPLE SHIPPING	82.12
					WATER SAMPLE SHIPPING	32.96
						<u>115.08</u>
04/13/2022	101	23595	01013	USA BLUE BOOK	SAMPLE CELLS & HACH	583.03
04/13/2022	101	23596	01314	VERIZON WIRELESS	CELL PHONES 2-16-22 TO 3-15-22	409.84
04/13/2022	101	23597	01257	JOSH WALDRON	MILEAGE REIMBURSEMENT	11.70
					MILEAGE REIMBURSEMENT	11.70
					MILEAGE REIMBURSEMENT	11.70
						<u>35.10</u>
04/13/2022	101	23598	00703	WASTE MANAGEMENT OF MICHIGAN, INC	DUMPSTER SERVICE SHOP-APR 2022	42.39
					DUMPSTER SERVICE TWP-APR 2022	63.60
					DUMPSTER SERVICE MCDONALD-APR 2022	128.42
					DUMPSTER SERVICE JAMESON-MAR 2022	112.27
					DUMPSTER SERVICE WTR-APR 2022	42.80
					DUMPSTER SERVICE WWTP-APR 2022	248.91
						<u>638.39</u>
04/13/2022	101	23599	01236	WEB ASCENDER	WEBSITE HOSTING Q2 2022/SUPPORT	134.55
04/13/2022	101	23600	00710	WEBB CHEMICAL SERVICE	FERRIC CHLORIDE SOLUTION	6,561.23
04/13/2022	101	23601	00723	WINN TELECOM	PHONE SERVICE 4/1/22-4/30/22	363.40

101 TOTALS:

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
Total of 46 Checks:						87,864.44
Less 2 Void Checks:						0.00
Total of 44 Disbursements:						<u>87,864.44</u>

Charter Township of Union Payroll
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CHECK DATE: March 26, 2022

PPE: March 31, 2022

NOTE: PAYROLL TRANSFER NEEDED

General Fund	\$	31,193.39
Fire Fund		
EDDA		
WDDA		
Sewer Fund		27,119.64
Water Fund		19,958.80
Total To Transfer from Pooled Savings	\$	78,271.83

NOTE: CHECK TOTAL FOR TRANSFER

Gross Payroll	\$	67,307.40
Employer Share Med		968.82
Employer Share SS		4,142.31
SUI		15.94
Pension-Employer Portion		5,241.08
Workers' Comp		596.28
Life/LTD		-
Dental		-
Health Care		-
Vision		-
Vision Contribution		-
Health Care Contribution		-
Flex Administrators		-
Cobra/Flex Administration		-
PCORI Fee		-
Total Transfer to Payroll Checking	\$	78,271.83

TOTAL TRANSFER FROM POOLED SAVINGS TO PAYROLL ACCOUNT

CONFIRMATION NUMBER: _____ **DATE:** _____

ACH NUMBER: _____ **TIME:** _____



Union Township Report-1

Date: Tuesday, March 22, 2022



Alarm Date between 2022-03-14 and 2022-03-20

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000188						
		3/14/2022 3:06:15 PM	735	Alarm system sounded due to malfunction	ENG 33	2	1
						Total Responding 2	
Union Township	0000191						
		3/16/2022 1:11:36 AM	311	Medical assist, assist EMS crew	ENG 33	2	1
						Total Responding 2	
Union Township	0000192						
		3/16/2022 7:20:17 AM	561	Unauthorized burning	ENG 33	2	1
		3/16/2022 7:20:17 AM	561	Unauthorized burning	Assistant Chief	1	1

						Total Responding 3	
Union Township	0000195						
		3/17/2022 4:42:06 AM	611	Dispatched & canceled en route	ENG 33	2	1
						Total Responding 2	
Union Township	0000197						
		3/17/2022 12:34:49 PM	745	Alarm system activation, no fire - unintentional	ENG 33	2	1
						Total Responding 2	
Union Township	0000198						
		3/17/2022 8:24:49 PM	160	Special outside fire, other	ENG 33	2	1
		3/17/2022 8:24:49 PM	160	Special outside fire, other	Brush 31	1	1
						Total Responding 3	

Union Township	0000200						
		3/16/2022 1:11:36 AM	311	Medical assist, assist EMS crew	ENG 33	2	1
						Total Responding 2	
Union Township	0000201						
		3/17/2022 9:32:37 PM	322	Motor vehicle accident with injuries	Assistant Chief	0	1
		3/17/2022 9:32:37 PM	322	Motor vehicle accident with injuries	ENG 33	2	1
		3/17/2022 9:32:37 PM	322	Motor vehicle accident with injuries	C 31	1	1
						Total Responding 3	
Union Township	0000203						
		3/18/2022 7:40:29 PM	444	Power line down	ENG 33	2	1
						Total Responding 2	
	Total Runs					Total Responding 21	
	9						

Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call



Union Township Report-1

Date: Tuesday, March 29, 2022



Alarm Date between 2022-03-21 and 2022-03-27

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000214						
		3/25/2022 6:44:16 AM	743	Smoke detector activation, no fire - unintentional	ENG 31	2	1
						Total Responding 2	
	Total Runs 1					Total Responding 2	

Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call



Union Township Report-1

Date: Tuesday, April 5, 2022



Alarm Date between 2022-03-28 and 2022-04-03

District	NFIRS Number	Alarm Date	Incident Type Code	Incident Type	Apparatus Name	Personnel Count	Alarms
Union Township	0000218						
		3/28/2022 9:00:53 AM	321	EMS call, excluding vehicle accident with injury	ENG 31	4	1
						Total Responding 4	
Union Township	0000219						
		3/28/2022 2:41:18 PM	321	EMS call, excluding vehicle accident with injury	ENG 31	2	1
						Total Responding 2	
Union Township	0000223						
		3/29/2022 7:20:48 PM	622	No incident found on arrival at dispatch address	ENG 31	2	1
						Total Responding 2	

Union Township	0000225						
		3/29/2022 10:29:29 PM	150	Outside rubbish fire, other	ENG 31	2	1
						Total Responding 2	
Union Township	0000226						
		3/30/2022 2:53:37 PM	322	Motor vehicle accident with injuries	ENG 32	2	1
		3/30/2022 2:53:37 PM	322	Motor vehicle accident with injuries	POV	1	1
						Total Responding 3	
Union Township	0000230						
		3/30/2022 11:44:01 PM	611	Dispatched & canceled en route	ENG 31	2	1
						Total Responding 2	
	Total Runs					Total Responding 15	
	6						

Note: Alarms

1=Duty Crew

2=Paged Off Duty Full-time

3=Paged Paid-on-Call Firefighters

4=Paged All

Highlighted Yellow Indicates an Emergency Call



REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher, Township Manager **DATE:** March 29, 2022
FROM: Kim Smith, Public Service Director **DATE FOR BOARD CONSIDERATION:** April 13, 2022
ACTION REQUESTED: Consideration to approve the 2022 Township Brine Participation Contract with the Isabella County Road Commission (ICRC) for the application of brine in the amount of \$19,680.16 and authorize the Township Manager to sign said contract.

Current Action Emergency

Funds Budgeted: If Yes Account # 101-441-801.000 No N/A

Finance Approval _____ MS _____

BACKGROUND INFORMATION

As part of the annual road maintenance program, the Township and the ICRC partner to apply brine to 19.99 miles of gravel roads located within Union Township. Brine is applied to gravel roads to reduce dust generated by fast-moving traffic, enhance the stability of gravel roads, and prolong the life of aggregate applications.

The ICRC and the Township split the cost for this maintenance. The aggregate cost share for 2022 is 92.18% Township and 7.81% ICRC. The 2022 brine cost is the same as in 2021.

SCOPE OF SERVICES

This contract provides for (3) three applications of Michigan Chloride at 2,000 gallons per mile during the year.

JUSTIFICATION

The approval of these contracts will reduce the amount of dust being generated during dry months and continue to improve the condition of roads throughout the Township.

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed with these appointments (From Policy 1.0: Global End)

- Community well-being and common good
- Prosperity through economic diversity, cultural diversity, and social diversity
- Safety
- Health
- Natural Environment

COSTS

The cost share for this contract is as follows:

Union Township	\$19,680.16
ICRC	\$1,669.17
Total	\$21,349.32

The FY2022 budget has funds in the amount of \$20,000.00 allocated for brine.

PROJECT TIME TABLE

The application of brine will occur in 2022, at the discretion of the Isabella County Road Commission.

RESOLUTION

It is resolved that the 2022 Township Brine Participation Contract with the Isabella County Road Commission (ICRC) in the amount of \$19,680.16 is approved and the Manager is authorized to sign on behalf of the Township.

Moved by _____ Seconded by _____

Yes:

No:

Absent:

TOWNSHIP BRINE PARTICIPATION CONTRACT

This Agreement is made and entered into by and between the Board of County Road Commissioners for the County of Isabella, hereinafter referred to as the "Road Commission" and **Union Township**, hereinafter referred to as the "**Township**", for the following improvements:

Project No. 497 – 014 - 221416	Total Gravel Miles: 19.99
Three Applications of Michigan Chloride at 2000 gallons per mile	
TOTAL COST	\$ 21,349.32
Less I.C.R.C. Share	<u>-1,669.17</u>
TOWNSHIP SHARE	<u>\$ 19,680.16</u>
Return Contract by March 21, 2022	

The Township agrees to pay the Road Commission for stated services after each application has been completed and an invoice has been furnished by the Road Commission. Payment is due upon receipt of invoice. The Road Commission is hereby authorized to add to the unpaid balance a service charge of one (1%) per month on the unpaid balance of any and all said sums remaining unpaid after thirty (30) days.

The undersigned Township officials, by executing this agreement, certify they are authorized to enter into this agreement on behalf of the Township.

UNION TOWNSHIP

ISABELLA COUNTY ROAD COMMISSION

By: _____
Supervisor

By: _____
Manager

By: _____
Clerk

By: _____
Board Secretary

Board Approval on: _____

Board Approval on: _____

REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher - Township Manager **DATE:** March 29, 2022

FROM: Kim Smith – Public Service Director **DATE FOR BOARD CONSIDERATION:** April 13, 2022

ACTION REQUESTED: Approval of the bid from Plummer’s Environmental in the amount of \$123,510, for the rehabilitation of (17) seventeen sanitary sewer manhole structures located on Craighall Road, Mission Road, and River Road.

Current Action Emergency

Funds Budgeted: If yes Account # 590-536-930.000 No N/A

Finance Approval _____

BACKGROUND INFORMATION

As part of the Township’s ongoing Sanitary Sewer Asset Management Program (24) twenty-four sanitary sewer manhole structures were identified as the next critical manholes requiring rehabilitation. This rehabilitation includes cleaning, leak stop, and cured in place lining of the manhole structures. The project was competitively bid and a public bid opening was held on March 16, 2022 at 10:00 a.m.

Two bids were received for this project. Plummers’ Environmental was the only responsive bidder that met the specifications outlined in the RFP.

The two bids received are as follows:

Bidder	Amount
Plummer’s Environmental	\$174,266.00
Advance Rehabilitation Technology	\$69,096.00

The bid received from Advance Rehabilitation Technology included the use of a spray on application multi-layer/multi- component polymer/polyurea lining system vs. a resin cured in place liner system. The product specifications supplied by Advance Rehabilitation for their lining system do not meet the ASTM D Standards outlined in the RFP for comprehensive strength, tensile strength, density, and flexural strength.

The amount of the bid exceeded the funds allocated in the FY2022 budget. To keep the project within budget (7) seven of the manholes have been removed from the 2022 project. The (7) seven manholes bid in FY2022 but not recommended for completion will be rebid as part of the FY2023 Manhole Rehabilitation Project.

SCOPE OF SERVICES

- Mission Road – cleaning, leak stop & cured in place liner (CIP) – (8) eight manhole structure
 - MH#267, MH#268, MH#163, MH#164, MH#164A, MH#165, MH#166, MH166A
- Craighill Road – cleaning, leak stop & cured in place liner (CIP) – (4) four manhole structures
 - MH#272, MH#270, MH#269, MH#266
- River Road – cleaning, leak stop & cured in place liner (CIP) – (5) five manhole structures
 - MH#275, MH#276, MH#277, MH#278, MH#281

JUSTIFICATION

We recommend that Plummer’s Environmental be awarded the sanitary sewer manhole structure rehabilitation repairs in the amount of \$123,510.00 for (17) seventeen manholes. This recommendation is based on the amount approved in the FY2022 Budget, history of successful repair and maintenance work performed by Plummer’s Environmental for Union Township, ability to meet project specifications, and their responsiveness to the Request for Proposal (RFP).

PROJECT IMPROVEMENTS

Board of Trustees goals addressed by this agreement (From Policy 1.0: Global End).

- 1. Community well-being and common good
- 2. Safety
- 3. Health

COSTS

\$123,510.00

This project is included in the FY2022 Approved Sanitary Sewer Budget - account number 590-536-930.000 in the amount of \$125,000.

PROJECT TIME TABLE

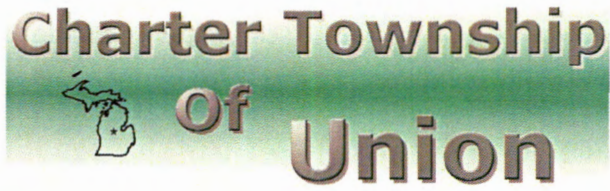
45 days after receipt of Notice to Proceed

Approve the bid from Plummer’s Environmental in the amount of \$123,510, for the rehabilitation of (17) seventeen sanitary sewer manhole structures located on Craighall Road, Mission Road, and River Road.

RESOLUTION

Resolved by _____ Seconded by _____

Yes:
No:
Absent:



5228 South Isabella Road
Mt. Pleasant, MI 48858
989-772-4600 ext. 224 (phone)
989-773-1988 (fax)
ksmith@uniontownshipmi.com

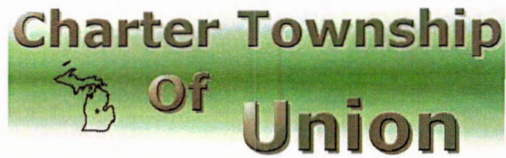
Bid Tabulation Sheet

Project: 2022 Manhole Rehab

Due Date: March 16, 2022 @ 10:0 a.m.

Bidder	Amount
Plummers Environmental Service	\$174,266.00
Advanced Rehabilitation Technology	\$69,096.00

Kimberly Smith 3-16-2022
John Baber 3-16-2022



REQUEST FOR PROPOSAL (RFP)
Charter Township of Union
2022 Sanitary Sewer Manhole Rehabilitation
Request for Proposal (RFP)

Sealed Bids for the rehabilitation of twenty-four (24) sanitary sewer manholes will be received by the **Charter Township of Union**, at the Water Treatment facility located at **5228 South Isabella Road, Mt. Pleasant, MI 48858**, until **10:00 AM** local time on **March 16, 2022** at which time the Bids received will be publicly opened and read.

Mail or Deliver Sealed Proposals to:

2022 – Rehabilitation of Sanitary Manhole Structures
Department of Public Services
Attention: Kim Smith, Public Service Director
Charter Township of Union
5228 South Isabella Road
Mt. Pleasant, MI 48858

General Scope:

The Charter Township of Union is soliciting requests from qualified contractors to complete the following work:

The project will include all work, materials and equipment required for the cured in place (CIP) structural rehabilitation of twenty-four (24) sanitary sewer manhole structures located in The Charter Township of Union. The twenty-four (24) manholes are located on Craighill Road, Mission Road, and River Road in Union Township. The purpose is to clean, vacuum, and inspect sanitary sewer manholes as well as eliminate infiltration, repair voids, restore structural integrity and provide corrosion protection by the application of a specified resin cure in place liner to the wall and bench surfaces of brick/concrete structures or structures produced with any other masonry construction material. These structures include, but are not limited to manholes.

The information contained below are the specific qualifications each contractor must meet in order to provide an accurate proposal. Attachments include Sanitary Sewer Structure Rehabilitation 2022 Manhole Map, Bid Sheet, and Technical Specifications.

Requirements - General:

- Work must comply with all applicable federal, state and local laws and regulations
- All equipment and materials shall be compliant with manufacturers recommendations and the Township Standard Specifications and Details
- Contractor shall be responsible for obtaining all local regulatory permits (including fees) which may include but is not limited to MDOT, and Isabella County Road Commission.
- Date of completion to be within 45 consecutive calendar days of receipt of Notice to Proceed or as coordinated with Township Staff.
- Provide in addition to all other manufacturer warranties, a (1) year full labor and material warranty on all workmanship, material and equipment furnished for this project.



- Prospective bidders are recommended to conduct a site visit prior to bidding although not required. All site inspections must be scheduled with the Township at least seven (7) days prior to the bid due date.

Terms of Agreement:

General:

- To hold bid open for 60 consecutive calendar days from the bid due date
- To enter into and execute a contract with Charter Township of Union
- References:
 - Provide minimum of three (3) references of similar municipality projects located within Michigan and have been completed within the last five (5) years.

Insurance:

- Contractor will have Worker's Compensation Insurance in limits required by state law and Comprehensive General Liability Insurance coverage in force for all of its operations under this contract. Township and DPW shall be listed as additional insureds on policy. A copy will be provided to the Township prior to commencing work.

Bonds:

- The Contractor shall include in the proposal price the cost to provide the following:
 - Letter of Surety and licensed to do business in the State of Michigan.
 - Performance and Payment Bond in the amount of 100% of the proposal amount.
 - Maintenance and Guarantee Bond in the amount of 50% of the proposal amount, guarantying for a period of one (1) year from final acceptance of the project work.

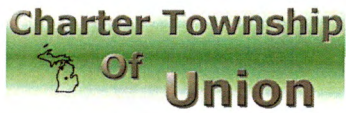
Shop Drawing Submittals:

- Provide one pdf copy of material specification sheets, and warranty information to Township. Do not proceed until written approval is received

Services / materials to be provided:

Contractor shall provide all equipment, and materials necessary to complete the work described herein. The scope of work shall include but shall not be limited to the following.

- Manhole Rehabilitation of 24 sanitary sewer structures
 - Refer to the attached Drawing and Technical Specifications for additional information.
- General
 - Mobilization, site restoration and cleanup
 - Coordination of delivery and unloading of equipment and materials
 - Contractor shall conduct all work so as to not interfere with the existing system operations.
 - Field investigation to confirm material type prior to performing work.
 - Coordination with Township Staff and DPW



Additional Services / Materials to Be Included:

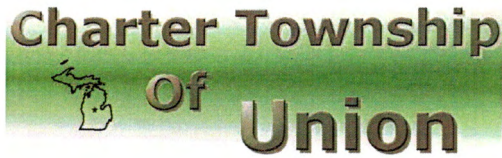
- Contractor shall be responsible to coordinate and provide construction schedule and minimum 48-hour notice before commencing work.
- Coordination/Notification with/to the property owners

Contractors Proposal Form

Bidders are instructed to submit bids for this project on a per item basis.

All bid items are tax inclusive. All work shall be in compliance with DPW Specifications, details, drawings, and terms identified in the RFP and applicable laws.

The following bid tabulation sheet is per item and the Township reserves the right to accept and/or reject any or all portions of the proposal.



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
Phone (989) 772600 ext. 224
Fax (989) 773 1988
E Mail ksmith@uniontownshipmi.com

2022 - REHABILITATION OF SANITARY SEWER MANHOLE STRUCTURES SPECIFICATION

SECTION 1: GENERAL

1.01 DESCRIPTION

This specification includes all work, materials, and equipment required for the structural rehabilitation of twenty-four (24) sanitary sewer manhole structures located in The Charter Township of Union Township. The twenty-four (24) manholes are located on Craighill Road, River Road, and Mission Road in Union Township. The purpose is to clean, vacuum, and inspect sanitary sewer manholes as well as eliminate infiltration, repair voids, restore structural integrity and provide corrosion protection by the application of a specified cure in place liner to the wall and bench surfaces of brick/concrete structures or structures produced with any other masonry construction material. These structures include, but are not limited to manholes.

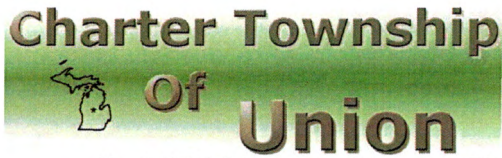
1.02 QUALITY ASSURANCE

- A. Furnish materials of quality required by the American Society for Testing and Materials (ASTM) standards or other approved standards and specifications.
- B. Provide guarantee against defective materials and workmanship in accordance with the requirements of these specifications.
- C. The contractor installing the finished protective liner will be a certified trained applicator of the specified processes. Contractor must include with bid documents at least three verifiable references of projects completed within the last five years using the specified materials.
- D. Provide verifiable independent third-party creep test, and/or holiday/spark test results documenting no less than 70% retention of flexural modulus of elasticity after 50 years of service. The third-party testing firm may not be affiliated with the manufacturer in any way.

1.03 REFERENCES

American Society for Testing and Materials (ASTM) Annual Book of Standards:

- A. ASTM D638-91: Test Method for Tensile Properties of Plastics.
- B. ASTM D790-91: Test Methods for Flexural Properties of Unreinforced and reinforced Plastics and Electrical Insulating Materials.
- C. ASTM D638 - Tensile Properties of Plastics.
- D. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics.
- E. ASTM D695 - Compressive Properties of Rigid Plastics.
- F. ASTM D4541 - Pull-off Strength of Coatings Using a Portable Adhesion Tester.
- G. ASTM D2584 - Volatile Matter Content.



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- H. ASTM D543 - Resistance of *Plastics* to Chemical Reagents.
- I. ASTM C109 - Compressive Strength Hydraulic Cement Mortars.
- J. ACI 506.2-77 - Specifications for Materials, Proportioning, and Application of Shotcrete.
- K. ASTM C579 - Compressive Strength of Chemically Setting Silicate and Silica Chemical Resistant Mortars.
- L. SSPC SP-13/NACE No. 6 – Surface Preparation of Concrete
- M. ASTM - The published standards of the American Society for Testing and Materials, West Conshohocken, PA.
- N. NACE - The published standards of National Association of Corrosion Engineers (NACE International), Houston, TX.
- O. SSPC - The published standards of the Society of Protective Coatings, Pittsburgh, PA.
- P. ASTM D-4787 D5162 – Holiday/spark testing
- Q. NACE RPO 188-88 -Holiday/spark testing

1.04 PROJECT/SITE CONDITIONS

Coordinate with the Utility Foreman, MDOT, and the Isabella County Road Commission for traffic control and all required permitting during rehabilitation work at each designated location. All permitting is the responsibility of the contractor and a copy of all required permits must be provided to the Charter Township of Union prior to work commencing.

1.05 SEQUENCING

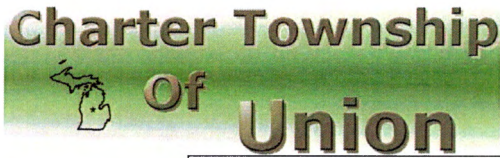
No interruptions of flow through manholes, wet wells, pump stations or any other portion of the plant or sanitary sewer system shall be allowed, if interruption of flow is required bypass pumping shall be utilized. All bypass pumping and method of bypass pumping shall be coordinated with and approval received from the Utility Foreman prior to the interruption.

SECTION 2: PRODUCTS

2.01 MATERIALS

- A. Infiltration Control mix:
 - 1. Minor Infiltration.
 - a. Cementitious Grout (De Neef Industrial Products)

A rapid-setting cementitious grout or chemical grout specifically formulated for leak control should be used to stop minor water infiltration. It should be mixed and applied according to the manufacturers recommendations and should meet the following minimum requirements.



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Compressive strength	ASTM C 109	1,800 psi @ ½ hr 4,000 psi @ 24 hrs 5,000 psi @ 7 days
Tensile strength	ASTM C 190	300 psi @ 7 days 350 psi @ 28 days

2. Very Active Infiltration

a. Chemical Grout (DC Neef Industrial Chemicals)

- 1). A chemical grout must be used for stopping very active infiltration, filling voids and should be mixed and applied according to manufacturer's recommendations. The cementitious grout should be volume stable having a minimum 1-day compressive strength of 50 psi and a 28-day compressive strength of 250 psi.
- 2). Chemical grouts can be used for stopping very active infiltration and should be mixed and applied per manufacturer's recommendations.

B. Patching and profiling mix:

1. Cementitious Compound (Strong Seal or equivalent product)

A quick setting cementitious material can be used to bring the substrate to profile by filling voids, cracks, missing mortar and other substrate defects. It should be mixed and applied according to the manufacturers recommendations and should meet the following minimum requirements.

Compressive strength	ASTM C 109	1000 psi @ 1 hr 3500 psi @ 48 hrs 5000 psi @ 28 days
Tensile strength	ASTM C 307	200 psi @ 24 hrs 300 psi @ 7 days

C. Resin Based Liner:

1. The resin-based material shall be used to form the cured in place on structural enhanced monolithic liner covering all interior surfaces of the structure including benches and inverts of manholes. The finished liner shall be approved and conform to the minimum physical requirements listed below.

Cured in Place Liner

Compressive strength	ASTM D 695	21,000 psi min
Tensile strength	ASTM D 638	35,000 psi min
Flexural strength	ASTM D 790	35,000 psi min
Bond		Shall exceed tensile strength of substrate
Flexural modulus (initial)	ASTM D 790	1,500 MPsi min
Density		62.4 # / pcf



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- a. The finished structure shall be corrosion resistant to: Hydrogen Sulfide; 200% sulfuric Acid; 170% Nitric Acid; 5% Sodium Hydroxide; road salts for winter conditions as well as other common ingredients of the sanitary sewage environment.
- b. The wall of the liner will be structurally designed to withstand the hydraulic load generated by the groundwater table & restore structural integrity. The long term (50 yr.) value of the flexural modulus of elasticity will be a minimum of 500,000 psi and is an integral part of the engineering equation used to design the wall thickness of the structural liner.

For this reason, the value of the long-term flexural modulus of the proposed product will be certified by an independent, third-party testing lab and submitted with the design calculations for each individual structure.

Definition- Long term value will be identified as initial flexural modulus less the reduction in value caused by Creep over a fifty (50) year minimum period and verified by DMA testing.

2. Other Materials: Because of the advantages associated with rapid cure and infinite thickness capabilities, no resin-based materials shall be used to achieve the structural enhancement without prior approval of the Utility Foreman or Public Service Director.

SECTION 3: EXECUTION

3.01 INSPECTION

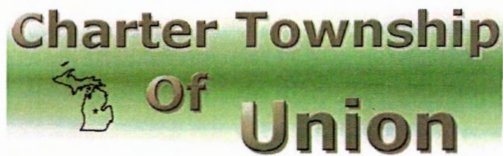
- A. Evaluation of Atmosphere: Prior to entering structures, an evaluation of the atmosphere will be conducted to determine the presence of toxic, flammable vapors or possible lack of oxygen. The evaluation shall be in accordance with local, state or federal safety regulations.

3.02 PREPARATION

- A. Place covers over all pipe openings to prevent extraneous material from entering the sewer system. All foreign material shall be removed from the structures wall and bench floor using a pressure water spray (minimum 2500 psi). The use of acid for cleaning purposes, no matter how dilute, will not be allowed. Loose or protruding brick, mortar and concrete shall be removed by using a mason hammer and chisel. All previous coating materials and rubber chimney seals must be removed as part of the preparation process and prior to installation of new liner. Fill any large voids with quick setting patch mix as described in Paragraph (2.01 IIA). The surface to be repaired must be clean and free of any loose materials.
- B. Minor leaks shall be stopped using the quick-setting specially formulated infiltration control mix (paragraph 2.01 IA) and shall be mixed and applied per manufacturer's recommendations. When severe infiltration is present, drilling may be required in order to pressure grout outside the structure using either a cementitious or chemical grout (paragraph 2.01 IB). Manufacturer's recommendations shall be followed when pressure grouting is required.

3.03 INSTALLATION/APPLICATION

- A. Application Temperatures: Application of liner shall not be made unless the ambient temperature inside the structure is 50 degrees or higher. All material specifications for temperature must be met.
- B. Bench, Invert Repair:



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1. The manhole bench must be sprayed/cured in place but depending on availability and future plans, some judgment consideration will have to be made regarding the invert. Important issue here is the necessity to ensure a monolithic system is achieved.
2. After bypass pumping of the flow and thorough cleaning preparatory work has been achieved. The cured in place resin-based liner shall be applied to the invert, bench and wall areas in the same manner as specified for the liner application below. The cured in place liner shall be applied such that the entire structure receives a structurally enhanced monolithic liner.
3. The finished invert surfaces shall be smooth, free of ridges and will be sloped in the direction of flow. Special care shall be used to ensure a smooth transition between the new manhole invert and intersecting pipeline inverts such that flow will not be impaired.

- C. **Liner Application:** The resin-based liner shall be cured in place to all surfaces by a trained technician who is experienced in the application of a sprayed or cured in place applied liner and has been certified by the manufacturer. Liner will be applied in accordance to all manufacturer and material specifications. Appropriate personal protection equipment shall be utilized but, in every case, when applying the liner in place, the sprayer and all other personnel in direct contact with the spray atmosphere, will always be protected by supplied air.

The minimum thickness of the material applied is to be no less than 250 mils (1/4") in order to support structural integrity. No other products such as cement or grouts may be used as part of the structural reinstatement, however, said products may be used as part of the repair process prior to sprayed application of the structure as specified in Section 2.

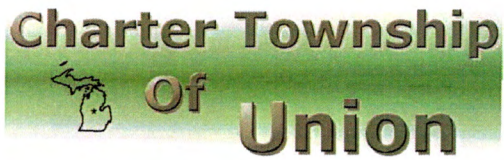
Application of the cured in place liner applied material must be completed in one (1) mobilization in order to minimize the disruption and cost of excessive bypassing, pipeline plugging, traffic control and all other support services.

The finished manhole must be returned to full service immediately after the cured in place liner application is complete.

- D. **Curing:** The structure should be allowed to cure for 24 hours and return to ambient temperature prior to any physical testing, including vacuum testing, and/or holiday/spark testing.

3.04 FIELD QUALITY CONTROL

- A. The following test/inspection will be performed by the Utility Foreman.
1. Visually verify the absence of leaks from infiltration.
- B. The following tests shall be performed by the Contractor.
1. **Vacuum Test:** A vacuum test conforming to the requirements of ASTM C1244 shall be performed for every spray lined manhole or circular structure where practical.
 2. **Holiday/Spark Test:** A holiday/spark test conforming to the requirements of ASTM D4787 & D-5162 shall be performed for every cured in place manhole or circular structure where practical.



Department of Public Services
5228 South Isabella Road
Mt. Pleasant, MI 48858
Phone (989) 772600 ext. 224
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E Mail ksmith@uniontownshipmi.com

Bids Due:
March 16, 2022 @ 10:00 a.m.

Address Sealed Bids to:

Charter Township of Union
Attn: Kim Smith – Public Service Director
5228 South Isabella Road
Mt. Pleasant MI 48858

Inquiry:

Kim Smith – Public Service Director
ksmith@uniontownshipmi.com (989)772-4600 ext. 224
John Bebow – Utility Foreman
jbebow@uniontownshipmi.com

**The Charter Township of Union reserves the right to accept or reject all bids that are received.
No Bidder may withdraw their Bid within sixty (60) days after the actual date of Bid opening.**

**2022 SANITARY SEWER MANHOLE REHABILITATION –
BID SHEET**

Proposal of Plummer's Environmental Services Inc.

(Hereinafter called "Bidder"), organized and existing under the Laws of the State of Michigan, doing business as a Corporation,*
to Charter Township of Union, Isabella County MI.

In compliance with your Request for Bids, Bidder hereby proposes to perform Work for the rehabilitation of twenty-four (24) Sanitary Sewer Manholes in strict accordance with the Contract Documents within the time set forth therein and at the prices stated below.

By submission of this Bid, each Bidder certifies, and in the case of a joint Bid, each party thereto certifies as to his own organization that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bidder hereby agrees to commence Work under this Contract on or before a date to be specified in the Notice to Proceed and to substantially complete the Project within 45 consecutive calendar days thereafter, and fully complete Project (including restoration, punch list items, and close-out documents) within 30 days of Substantial Completion. Bidder further agrees to pay as liquidated damages, the sum of \$500.00 for each consecutive calendar day thereafter.

Bidder hereby agrees to also pay for the actual costs to the Owner for Resident Project Representative and Project management services and all additional inspection costs beyond the Contract completion date established by the "Notice to Proceed".

Bidder agrees to perform all Work in the Contract Documents for the following prices:

Manhole Number	Rehabilitation Description	Unit		Estimated Depth Contractor Responsible for field verification of depth	Item Cost
MH# 273	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	10.9	\$7,513.00
MH# 272	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	6.12	\$5,239.00
MH# 271	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	6.17	\$4,839.00
MH# 272A	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	7.0	\$4,781.00
MH# 270	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	12.12	\$10,187.00
MH# 269	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	11.53	\$8,196.00
MH# 266	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Craighill Road	14.13	\$11,553.00
MH#267	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Mission Road	14.43	\$11,553.00
MH# 268	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	Mission Road	10.92	\$7,513.00
MH# 274	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	River Road	9.86	\$7,630.00
MH# 275	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	River Road	6.46	\$5,581.00
MH# 276	Cleaning, debris removal,	1	River Road	5.49	\$5,748.00

Manhole Number	Rehabilitation Description	Unit		Estimated Depth Contractor Responsible for field verification of depth	Item Cost
	leak stop, cured in place liner (CIP)				
MH# 277	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	River Road	5.21	\$5,406.00
MH# 278	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	River Road	6.01	\$5,581.00
MH# 279	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	River Road	12.83	\$10,529.00
MH# 279A	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	River Road	11.06	\$7,513.00
MH# 280	Cleaning, debris removal, leak stop, cured in place liner (CIP)	1	River Road	10.19	\$7,971.00
MH# 281	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	River Road	6.78	\$4,781.00
MH# 163	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Mission Road	8.74	\$6,147.00
MH# 164	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Mission Road	7.66	\$6,830.00
MH# 164A	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Mission Road	7.12	\$6,772.00
MH# 165	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner	1	Mission Road	7.73	\$6,147.00

Manhole Number	Rehabilitation Description	Unit		Estimated Depth Contractor Responsible for field verification of depth	Item Cost
	(CIP)				
MH# 166	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Mission Road	9.28	\$8,138.00
MH# 166A	Cleaning, debris removal, leak stop, cured in place liner (CIP) Place Liner (CIP)	1	Mission Road	9.25	\$8,138.00
	Total	24			\$174,266.00

One hundred seventy four thousand two hundred sixty six dollars and zero cents

Amount of Bid in Words

Seal if Bid is by a Corporation

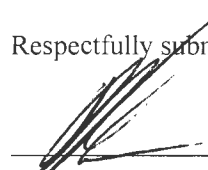
ATTEST:



Project Manager

Title

Respectfully submitted,



Signature

Plummer's Environmental Services

Name of Contractor

10075 Sedroc Industrial Dr. Byron Center, MI 49315

Address

Sanitary Sewer Structure Rehabilitation: 2022 Manhole Relining

Charter Township of Union
T14N R04W
Isabella County, Michigan

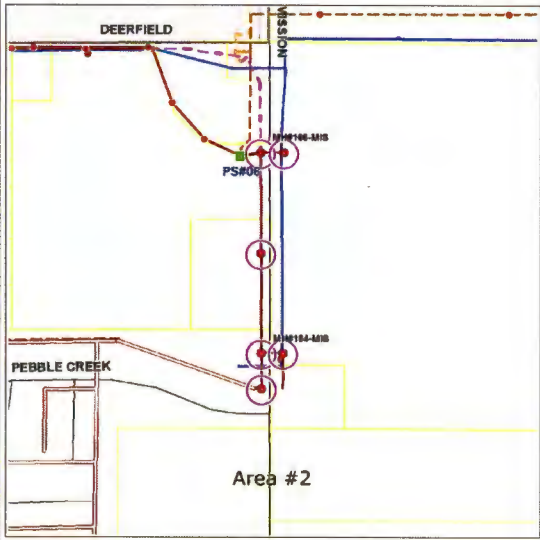
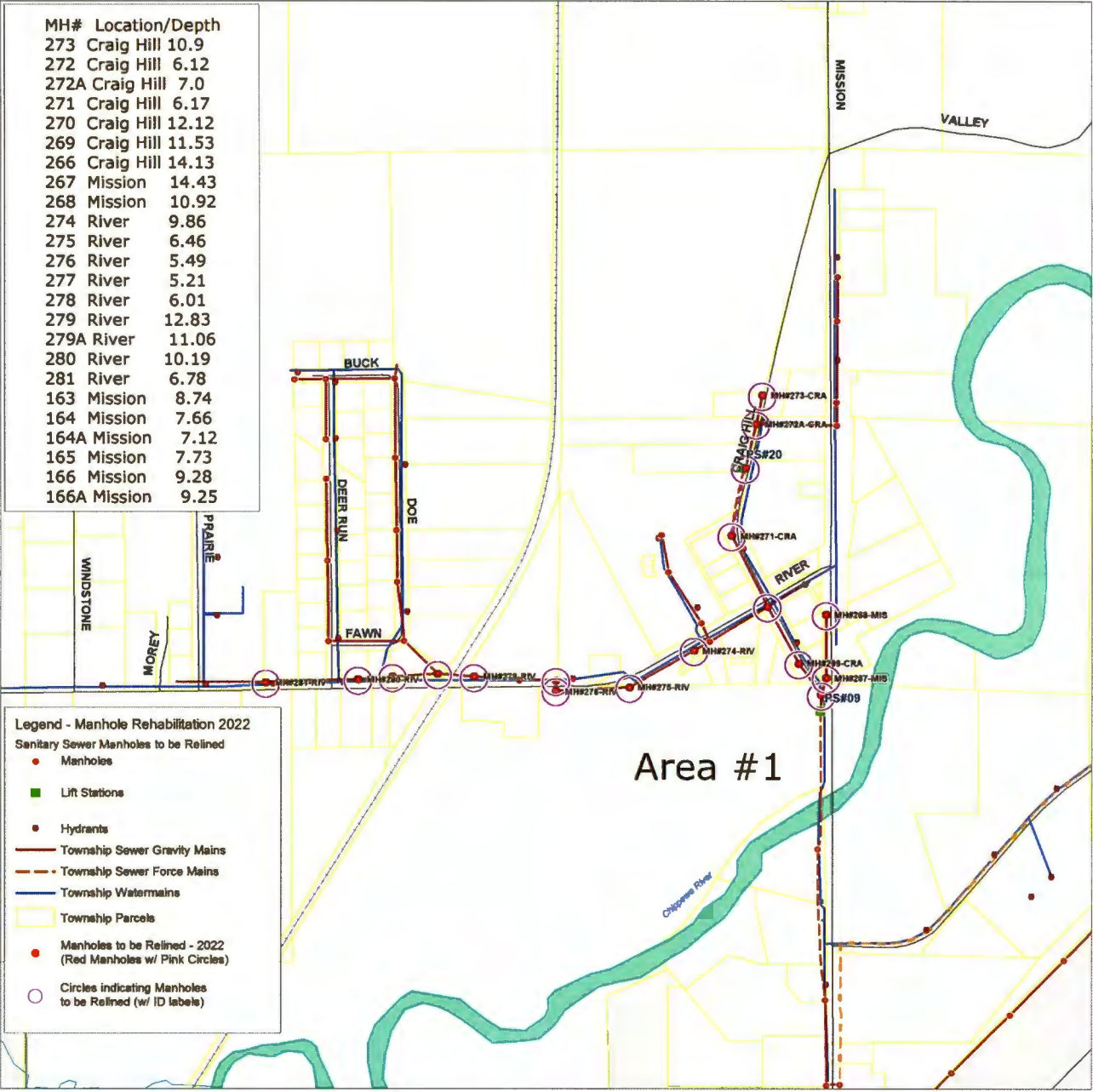
- Manholes to be Relined:
- Area #1 - Eighteen (18) Manholes: Craig Hill, Mission & River Rd Area
 - Area #2 - Six (6) Manholes: S Mission Road Area (South of Mission & Deerfield Intersection)

MH#	Location/Depth
273	Craig Hill 10.9
272	Craig Hill 6.12
272A	Craig Hill 7.0
271	Craig Hill 6.17
270	Craig Hill 12.12
269	Craig Hill 11.53
266	Craig Hill 14.13
267	Mission 14.43
268	Mission 10.92
274	River 9.86
275	River 6.46
276	River 5.49
277	River 5.21
278	River 6.01
279	River 12.83
279A	River 11.06
280	River 10.19
281	River 6.78
163	Mission 8.74
164	Mission 7.66
164A	Mission 7.12
165	Mission 7.73
166	Mission 9.28
166A	Mission 9.25

Legend - Manhole Rehabilitation 2022

Sanitary Sewer Manholes to be Relined

- Manholes
- Lift Stations
- Hydrants
- Township Sewer Gravity Mains
- - - Township Sewer Force Mains
- Township Watermains
- Township Parcels
- Manholes to be Relined - 2022 (Red Manholes w/ Pink Circles)
- Circles indicating Manholes to be Relined (w/ ID labels)



Map Production Date: February 9, 2022
Union Township Mapping & GIS



American Institute of Architects

AIA Document A310

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we, Plummer's Environmental Services, Inc., as Principal, hereinafter called the Principal, and Employers Mutual Casualty Company, duly organized under the laws of the State of Iowa, as Surety, hereinafter called the Surety, is held and firmly bound unto Union Charter Township as Obligee, in the sum of Five Percent of the Bid Amount (5% of the Bid Amount), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for: 2022 Sanitary Sewer Manhole Rehabilitation Project

Bid Date: March 16, 2022

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and materials furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 9th day of March, A.D. 2022.

	<u>Plummer's Environmental Services, Inc.</u>
	<i>(Principal)</i>
	<i>(Seal)</i>
<hr/> <i>(Witness)</i>	By: _____
	<i>(Title)</i>

	<u>Employers Mutual Casualty Company</u>
	<i>(Surety)</i>
	<i>(Seal)</i>
<hr/> <i>V Jean Nolf</i> <i>V Jean Nolf</i> <i>(Witness)</i>	<u>Laura J Northouse</u>
	Laura J. Northouse Attorney -in-Fact

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, that:

- 1. Employers Mutual Casualty Company, an Iowa Corporation
- 2. EMCASCO Insurance Company, an Iowa Corporation
- 3. Union Insurance Company of Providence, an Iowa Corporation
- 4. Illinois EMCASCO Insurance Company, an Iowa Corporation
- 5. Dakota Fire Insurance Company, a North Dakota Corporation
- 6. EMC Property & Casualty Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:

LAURA J. NORTHOUSE

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute the Bid Bond

In an amount not exceeding Ten Million Dollars\$10,000,000.00

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

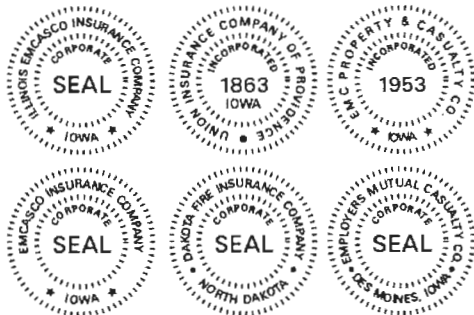
AUTHORITY FOR POWER OF ATTORNEY

This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at the first regularly scheduled meeting of each company duly called and held in 1999:

RESOLVED: The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS THEREOF, the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this 30th day of March, 2020.

Seals



Scott R. Jean

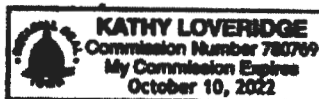
Scott R. Jean, President & CEO
of Company 1; Chairman, President
& CEO of Companies 2, 3, 4, 5 & 6

Todd Strother

Todd Strother, Executive Vice President
Chief Legal Officer & Secretary of
Companies 1, 2, 3, 4, 5 & 6

On this 30th day of March, 2020 before me a Notary Public in and for the State of Iowa, personally appeared Scott R. Jean and Todd Strother, who, being by me duly sworn, did say that they are, and are known to me to be the CEO, Chairman, President, Executive Vice President, Chief Legal Officer and/or Secretary, respectively, of each of the Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Scott R. Jean and Todd Strother, as such officers, acknowledged the execution of said instrument to be their voluntary act and deed, and the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2022.



Kathy Loveridge

Notary Public in and for the State of Iowa

CERTIFICATE

I, James D. Clough, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on 30th day of March, 2020, are true and correct and are still in full force and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 9th day of March, 2022.

James D. Clough

Vice President



REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher, Township Manager

DATE: April 5, 2022

FROM: Kim Smith, Public Service Director

DATE FOR BOARD CONSIDERATION: April 13, 2022

ACTION REQUESTED: Consideration to approve four (4) Participation Contracts with the Isabella County Road Commission (ICRC) for the rehabilitation of four (4) miles of gravel roads within the Township in the amount of \$65,163.30, and authorize the Township Manager to sign said contracts.

Current Action Emergency

Funds Budgeted: If Yes Account # 101-441-967.000 No

Finance Approval MS

BACKGROUND INFORMATION

As part of the annual gravel road maintenance program, the ICRC and the Township partner to rehabilitate several miles of gravel road annually. The ICRC and the Township split the cost of two (2) miles equally while the Township pays for all of the other two (2) miles. The aggregate cost share is 75% Township and 25% ICRC. The 2022, cost per mile for gravel resurfacing is \$21,721.10.

For 2022, the ICRC recommends that following two (2) miles of road be serviced:

- Millbrook Road (Whiteville to Lincoln) \$10,860.55
- Millbrook Road (Meridian to Whiteville) \$10,860.55

For 2022, the remaining two (2) miles of roads to be serviced is yet to be determined by the Township Board of Trustees. After a discussion with the Road Commission regarding possibilities for the other two miles Township Administration is recommending the following two miles for gravel refresh:

- Millbrook Road (Crawford to Mission) \$21,721.10
- Millbrook Road (Lincoln to Crawford) \$21,721.10

A map has been provided which identifies all the primary and secondary roads in Union Township. The gravel roads that have been previously completed are identified by year.

SCOPE OF SERVICES

These contracts provide for the overlay of (4) four miles of gravel roads at 1,000 ton of 23-A modified gravel per mile.

JUSTIFICATION

The approval of these contracts will continue to improve the conditions of gravel roads throughout the Township.

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed with these appointments (From Policy 1.0: Global End)

- Community well-being and common good
- Prosperity through economic diversity, cultural diversity, and social diversity
- Safety

COSTS

The Township’s cost share for these contracts is \$65,163.30 with the ICRC contributing \$21,721.10. At the time of budget adoption, it was estimated that the Township share would be \$60,000. This estimate was based on projected cost provided by the ICRC in 2021. As such, a budget amendment will be needed in the amount of \$5,163.30 which will be included in budget amendment #1.

PROJECT TIME TABLE

The road improvements will occur during the 2022 construction season.

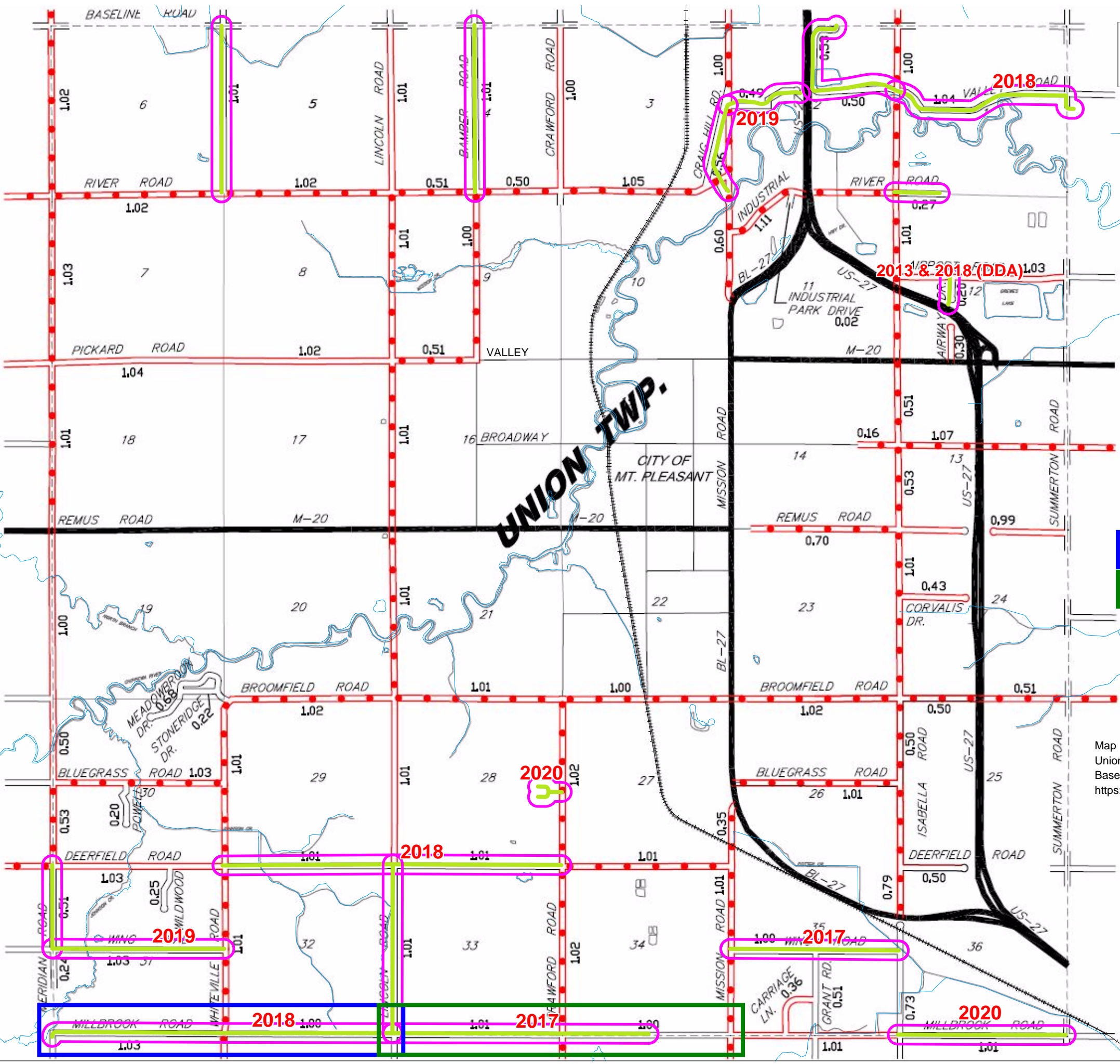
RESOLUTION

It is Resolved to approve four (4) Participation Contracts with the Isabella County Road Commission (ICRC) for the rehabilitation of four (4) miles of gravel roads within the Township in the amount of \$65,163.30, and authorize the Township Manager to sign said contracts for the following four miles.

- Millbrook Road (Whiteville to Lincoln)
- Millbrook Road (Meridian to Whiteville)
- Millbrook Road (Crawford to Mission)
- Millbrook Road (Lincoln to Crawford)

Moved by _____ Seconded by _____

Yes:
No:
Absent:



— Township Gravel Roads (with year refurbished label)
 300 foot buffer

- COUNTY LINE
- CORPORATE LIMITS
- STATE TRUNKLINE
- COUNTY PRIMARY PAVED
- COUNTY PRIMARY GRAVEL
- COUNTY LOCAL PAVED
- COUNTY LOCAL GRAVEL
- ADJACENT COUNTY
- CITY OR VILLAGE STREET
- CITY LIMITS

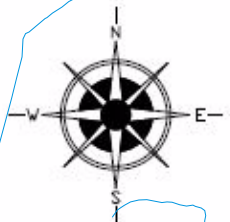
PRIMARY ROAD SYSTEM IS **35.75** MILES
 LOCAL ROAD SYSTEM IS **31.31** MILES

I HEREBY CERTIFY THAT THE ROADS SHOWN HEREON BY SYMBOL OR IN GREEN AS LOCAL ROADS ARE IN USE AND ARE UNDER THE JURISDICTION OF THE COUNTY ROAD COMMISSION.

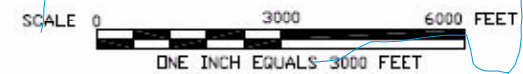
_____ 12-31-2020
 CHAIRMAN DATE

2022 Isabella County Road Commission Recommendation

2022 Township Administration Recommendation



Map Date: April 1, 2022
 Union Township Mapping & GIS
 Basemap Source: Isabella County Road Commission
https://www.isabellaroads.com/wp-content/uploads/2022/02/Isabella-Co_2021-Certification-Maps.pdf



TOWNSHIP UNION T14N - R4W
 SECTION SECTIONS 1 - 36
 COUNTY ISABELLA

MAP 7
 PAGE 17

TOWNSHIP PARTICIPATION CONTRACT

This Agreement is made and entered into by and between the Board of County Road Commissioners for the County of Isabella, hereinafter referred to as the “**Road Commission**” and **Union Township**, hereinafter referred to as the “**Township**”, for the following improvements:

Project No. 497-014-223414	Millbrook Road (Whiteville to Lincoln)	1000 Ton Gravel Refresh
	Estimated Cost before Contingency	\$19,746.45
	Plus Contingency	<u>1,974.65</u>
	Estimated Contract Cost plus Contingency	\$21,721.10
	Less ICRC 2022 50% Block Grant Share	<u>- 10,860.55</u>
	Union Township Share	\$10,860.55

Payment as stated above will be due upon receipt of invoice. The Road Commission is hereby authorized to add to the unpaid balance a service charge of one percent (1%) per month on the unpaid balance of any and all of said sums remaining unpaid after thirty (30) days. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date. Carryover projects are those which require extensive work to be deemed complete.

The undersigned Township officials, by executing this agreement, certify they are authorized to enter into this agreement on behalf of the Township.

UNION TOWNSHIP

ISABELLA COUNTY ROAD COMMISSION

By: _____
Manager

By: _____
Manager

By: _____
Clerk

By: _____
Board Secretary

Board Approval on: _____

Board Approval on: _____

TOWNSHIP PARTICIPATION CONTRACT

This Agreement is made and entered into by and between the Board of County Road Commissioners for the County of Isabella, hereinafter referred to as the “**Road Commission**” and **Union Township**, hereinafter referred to as the “**Township**”, for the following improvements:

Project No. 497-014-223416	Millbrook Road (Crawford to Mission)	1000 Ton Gravel Refresh
	Estimated Cost before Contingency	\$19,746.45
	Plus Contingency	<u>1,974.65</u>
	Union Township Share with Contingency	\$21,721.10

Payment as stated above will be due upon receipt of invoice. The Road Commission is hereby authorized to add to the unpaid balance a service charge of one percent (1%) per month on the unpaid balance of any and all of said sums remaining unpaid after thirty (30) days. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date. Carryover projects are those which require extensive work to be deemed complete.

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UNION TOWNSHIP

ISABELLA COUNTY ROAD COMMISSION

By: _____
Manager

By: _____
Manager

By: _____
Clerk

By: _____
Board Secretary

Board Approval on: _____

Board Approval on: _____

TOWNSHIP PARTICIPATION CONTRACT

This Agreement is made and entered into by and between the Board of County Road Commissioners for the County of Isabella, hereinafter referred to as the “**Road Commission**” and **Union Township**, hereinafter referred to as the “**Township**”, for the following improvements:

Project No. 497-014-223415	Millbrook Road (Lincoln to Crawford)	1000 Ton Gravel Refresh
	Estimated Cost before Contingency	\$19,746.45
	Plus Contingency	<u>1,974.65</u>
	Union Township Share with Contingency	\$21,721.10

Payment as stated above will be due upon receipt of invoice. The Road Commission is hereby authorized to add to the unpaid balance a service charge of one percent (1%) per month on the unpaid balance of any and all of said sums remaining unpaid after thirty (30) days. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date. Carryover projects are those which require extensive work to be deemed complete.

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UNION TOWNSHIP

ISABELLA COUNTY ROAD COMMISSION

By: _____
Manager

By: _____
Manager

By: _____
Clerk

By: _____
Board Secretary

Board Approval on: _____

Board Approval on: _____

TOWNSHIP PARTICIPATION CONTRACT

This Agreement is made and entered into by and between the Board of County Road Commissioners for the County of Isabella, hereinafter referred to as the “**Road Commission**” and **Union Township**, hereinafter referred to as the “**Township**”, for the following improvements:

Project No. 497-014-223417	Millbrook Road (Meridian to Whiteville)	1000 Ton Gravel Refresh
	Estimated Cost before Contingency	\$19,746.45
	Plus Contingency	<u>1,974.65</u>
	Estimated Contract Cost plus Contingency	\$21,721.10
	Less ICRC 2022 50% Block Grant Share	<u>- 10,860.55</u>
	Union Township Share	\$10,860.55

Payment as stated above will be due upon receipt of invoice. The Road Commission is hereby authorized to add to the unpaid balance a service charge of one percent (1%) per month on the unpaid balance of any and all of said sums remaining unpaid after thirty (30) days. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date. Carryover projects are those which require extensive work to be deemed complete.

The undersigned Township officials, by executing this agreement, certify they are authorized to enter into this agreement on behalf of the Township.

UNION TOWNSHIP

ISABELLA COUNTY ROAD COMMISSION

By: _____
 Manager

By: _____
 Manager

By: _____
 Clerk

By: _____
 Board Secretary

Board Approval on: _____

Board Approval on: _____



REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher, Township Manager **DATE:** March 29, 2022
FROM: Kim Smith, Public Service Director **DATE FOR BOARD CONSIDERATION:** April 13, 2022
ACTION REQUESTED: Adoption of Carriage Hill Estates #1 and #2 Subdivision Paving Special Assessment District Resolution #4 which sets the Second Public Hearing date and time for the establishment of a Paving Special Assessment District.

Current Action Emergency

Funds Budgeted: If yes Account # 245-000-973.110 No N/A

Finance Approval _____

BACKGROUND INFORMATION

Michigan state statute authorizes townships to make public improvements and provide services to their residents and taxpayers. The special assessment process is one way a township can expend public money for improvements. Act 188 of 1954, as amended, establishes and authorizes townships to utilize special assessment procedures to fund the costs of certain types of improvements. One of the improvements authorized by the act is the construction, improvement, and maintenance of public roads. While the statute allows for townships to initiate a special assessment district, it is typically done by petition of the property owners in a designated area who wish to make an authorized improvement. The township acts in an administrative capacity to establish the district, gather cost estimates, plan the improvement, provide financing, levy and collect special assessment funds to pay off the debt.

The residents of Carriage Hill Estates #1 and #2 Subdivision have met the first and second requirement of the special assessment process by submitting an informal and formal petition. The informal and formal petitions were reviewed for sufficiency, the Certificate of Validity was certified by the Township Supervisor, and Resolution #1 was presented and approved by the Township Board of Trustees at their August 11, 2021 regular meeting.

After approval of Resolution #1 the next step in the special assessment process was that a cost estimate and description of the project be requested from the Isabella County Road Commission. Upon receipt of the cost estimate and project description Resolution #2 was presented and approved by the Township Board of Trustees on September 8, 2021.

The purpose of Resolution #2 was as follows:

- Tentatively approving the Board of Trustees intention to make the improvement.
- Tentatively designating the special assessment district.
- Setting a date and time of September 22, 2021 at 7:00 p.m. for the first of two public hearings.
- Direct that the completed cost estimate be given to the Township Clerk and made available for public inspection prior to the first public hearing

The first of two public hearings was held on September 22, 2021 to hear input from residents on the establishment of the special assessment district. One resident from the district spoke in favor of the special assessment district at the first public hearing.

Resolution #3 was presented and adopted by the Township Board of Trustees on September 22, 2021. The purpose of Resolution #3 was as follows:

- Describing the improvement and determining to complete the improvements
- Approving the plans and cost estimates as presented
- Designating the boundaries of the district
- Confirming the petition for sufficiency
- Specifying the amount of the improvement costs to be paid by the Township, if any
- Designating the term of the special assessment district's existence
- Directing the Supervisor (Assessor) to prepare the special assessment roll

The final construction cost estimate was completed by the Isabella County Road Commission on February 14, 2022, and the Special Assessment Roll was completed by the Township Assessor on March 21, 2022.

The next step in the special assessment process is the consideration and adoption of Resolution #4 by the Township Board of Trustees.

The purpose of Resolution #4 is as follows:

- Confirm that the completed Special Assessment Roll be given to the Township Clerk and made available for public inspection prior to the second public hearing
- Set the date and time for the Second Public Hearing
- Directs the Township Clerk to give proper notice of such hearing by mailing and publication

SCOPE OF SERVICES

Establishment of a Paving Special Assessment District for Carriage Hill Estates #1 and #2 Subdivision to complete a grind, 2 ½" paved overlay, and 1" gravel shoulders on Carriage Lane.

JUSTIFICATION

It is recommended that the Township Board of Trustees adopt Carriage Hill Estates #1 and #2 Subdivision Paving Special Assessment District Resolution #4, and set the second public hearing date and time for April 27, 2022 at 7:00 p.m.

Upon approval of Resolution #4 the next step in the process can be initiated. The next step in the process is to mail Notice of the Second Public Hearing to each of the record land owners, or the party of interest and be published twice in a newspaper circulating in the township. The Notice of the Second Public Hearing must be mailed and published at least ten days before the date of the Second Public Hearing.

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed with these appointments (From Policy 1.0: Global End)

- Community well-being and common good
- Safety

COSTS

Tentative Cost Estimate \$102,539.00

PROJECT TIME TABLE

Resolution #4 – April 13, 2022 - set date/time for Public Hearing #2

Public Hearing #2 – April 27, 2022 set by Resolution #4

Resolution #5 – April 27, 2022 - confirm special assessment roll, determine number of annual installments, and interest rate

Notice of Assessment – mailed to all property owners within 20 days after confirmation of special assessment roll

Construction – 2022 Construction Season

Adoption of Carriage Hill Estates #1 and #2 Subdivision Paving Special Assessment District Resolution #4 which sets the Second Public Hearing date and time for the establishment of a Paving Special Assessment District.

Moved by _____ Seconded by _____

Yes:

No:

Absent:

**CHARTER TOWNSHIP OF UNION
ISABELLA COUNTY, MICHIGAN**

**Carriage Hill Estates #1 & #2 Subdivision Paving
Special Assessment District Resolution #4**

At a regular meeting of the Charter Township of Union Board of Trustees (“Township Board”) held on the __ day of _____ 2022, the following Resolution was adopted.

The following preamble and resolution were offered by _____ and supported by _____.

WHEREAS, the Township Board of the Charter Township of Union, County of Isabella, State of Michigan (“Township Board”), pursuant to Act 188, Public Acts of Michigan, 1954, as amended, received a Petition for Public Improvement by Special Assessment dated July 22, 2021;

WHEREAS, at a meeting of the Township Board on August 11, 2021 the Township Board resolved that plans and cost estimates related to the proposed special assessment district be prepared;

WHEREAS, at a meeting of the Township Board on September 8, 2021, the Township Board tentatively approved, by resolution, its intent to make the proposed improvement and designate the special assessment district;

WHEREAS, at the same meeting, the Township Board set a public hearing regarding the proposed special assessment district and directed that the completed plans and cost estimates be given to the Township Clerk to be made available for public inspection;

WHEREAS, in accordance with appropriate notice, a public hearing regarding the proposed special assessment district was scheduled and held on September 22, 2021 commencing at 7:00 o’clock p.m. and all persons were given the opportunity to be heard in the matter;

WHEREAS, at a meeting of the Township Board on September 22, 2021, the Township Board, by resolution, approved the proposed special assessment district, established its term of existence, approved plans and cost estimates for the improvements, certified the sufficiency of the petition to establish the special assessment district, directed the Township Supervisor to prepare the special assessment roll, and directed Township staff to obtain a final bid/cost estimate for the improvements; and

WHEREAS, as a result of the foregoing, the Township Board believes the project to be in the best interest of the Township and of the special assessment district proposed to be established.

NOW THEREFORE BE IT RESOLVED THAT:

1. That the Township Supervisor has prepared a special assessment roll (“Carriage Hill Estates #1 & #2 Subdivision Paving Special Assessment District Roll” or the “Special Assessment Roll”) for the purpose of specifically assessing that portion of the costs of the public improvement more particularly described hereinafter to the properties specially benefited by said improvement.
2. That the Township Supervisor has presented the Special Assessment Roll, attached hereto as **Exhibit A**, to the Township Board.
3. That the Special Assessment Roll is accepted and approved.
4. That a cost estimate in the amount of \$ 102,539.00 reflecting a decrease from the prior approved estimate, for the improvements, attached hereto as **Exhibit B**, is approved.
5. That the Township Board shall hold a public hearing at the Union Township Hall at 7:00 Eastern Time on April 27, 2022 for the purpose of hearing all persons interested in the Special Assessment Roll and reviewing the same, and at said public hearing all interested persons shall be afforded an opportunity to be heard.
6. That the Township Clerk is instructed to give the proper notice of such hearing by mailing and publication in accordance with MCL § 41.724a.
7. That the revised cost estimate and Special Assessment Roll are to be filed with the Township Clerk.
8. That the Township Clerk is directed to make the cost estimate, Special Assessment Roll and all other materials related to the Carriage Hill Estates # 1 & #2 Subdivision Paving Special Assessment District available for public examination.
9. That all resolutions and part of resolutions insofar as they conflict with the provisions of the within resolutions be and the same are hereby rescinded.

Upon roll call vote, the following voted;

Ayes:

Nays:

Abstentions:

Resolution declared adopted.

Date: _____

Bryan Mielke, Supervisor

Date: _____

Lisa Cody, Clerk

I, Lisa Cody, the duly elected Clerk of the Charter Township of Union, hereby certify that this is a true and correct copy of the Resolution adopted by the Board of Trustees of the Charter Township of Union, Isabella County, Michigan, on the _____ day of _____ 2022.

Date: _____

Lisa Cody, Clerk

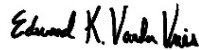
Charter Township of Union

Isabella County, Michigan

Exhibit A

2022 Carriage Hill Estates #1 & #2 Subdivision Paving Special Assessment Roll

Parcel ID	Owner of Record	Property Address	Benefit Cost/Parcel
14-035-30-012-00	SMITH MICHAEL J & CINDY A	5740 GRANT RD	\$ 6,408.69
14-051-00-001-00	SALEM WILLIAM J	4311 E MILLBROOK RD	\$ 6,408.69
14-051-00-002-00	D & D REAL ESTATE	4381 E MILLBROOK RD	\$ 6,408.69
14-053-00-009-00	D & D REAL ESTATE INVEST, LLC	CARRIAGE LANE	\$ 6,408.69
14-053-00-010-00	WARNER TIMOTHY & JULIE	5690 CARRIAGE LANE	\$ 6,408.69
14-053-00-011-00	PARTIE BRIAN & JEANINE	5730 CARRIAGE LANE	\$ 6,408.69
14-053-00-012-00	LAPHAM DAVID & CAROLYN TRUST	5770 CARRIAGE LANE	\$ 6,408.69
14-053-00-013-00	D & D REAL ESTATE INVEST, LLC	CARRIAGE LANE	\$ 6,408.69
14-053-00-014-00	DOLE BRYAN & JILL	5840 CARRIAGE LANE	\$ 6,408.69
14-053-00-015-00	D & D REAL ESTATE INVEST, LLC	CARRIAGE LANE	\$ 6,408.69
14-053-00-016-00	COVARRUBIAS MICHAEL G & JOAN M	5920 CARRIAGE LANE	\$ 6,408.69
14-053-00-017-00	FLORIAN ADAM W & TRACI A	CARRIAGE LANE	\$ 6,408.69
14-053-00-018-00	MUNLEY VINCENT P & JENNIFER L	5905 CARRIAGE LANE	\$ 6,408.69
14-053-00-019-00	MCDONALD BRIAN & LARA L	5865 CARRIAGE LANE	\$ 6,408.69
14-053-00-020-00	PETERSON ROBERT P	5775 CARRIAGE LANE	\$ 6,408.69
14-053-00-021-00	WOERLE NORMAN & SUSAN	5685 CARRIAGE LANE	\$ 6,408.69
Special Assessment District Total			\$ 102,539.04



Prepared by: Edward VanderVries, Assessor - Union Charter Township - 3/21/2022

**Carriage Hill Estates #1 & #2 Paving Special Assessment District
Exhibit B
Union Township 2022 Cost Estimate**

Project Description:

TYPE OF WORK: Grind and Pave 2 1/2", 1" Gravel Shoulder

STREETS IMPROVED: Carriage Lane

TOTAL LENGTH: .36 Mile

TOTAL PARCELS 16

PROJECT COST*:

ITEM	AMOUNT
Engineering	\$0
Construction Grind & Pave 2 1/2", 1" gravel Shoulder	\$ 99,039.00
Administration	\$ -
Legal, Publishing, Postage	\$ 3,500.00
TOTAL PROJECT COST	\$ 102,539.00
TOTAL ASSESSMENT*	\$ 102,539.00

COST PER LOT:

Full assessment to front lots

LOT TYPE	LUMP SUM	PER YEAR
Front Lot	\$ 6,408.69	

***Notes:**

Costs are approximate, actual costs may be more or less based upon 2022 construction, publishing, and legal cost.

To: Mark Stuhldreher - Township Manager **DATE:** April 5, 2022
FROM: Kim Smith – Public Services Director **DATE FOR BOARD CONSIDERATION:** April 13, 2022
ACTION REQUESTED: Approval of the construction contract with Countyline Power LLC, in the amount of \$339,574.00 for the installation of high service pumps at the River Road Control Valve Station.

Current Action X Emergency _____

Funds Budgeted: If Yes x Account # 591-536-972.000 No _____ N/A _____

Finance Approval _____ MS _____

BACKGROUND INFORMATION

Union Township is required to complete a Water Reliability Report every five years and submit the report to EGLE. The Township’s current Water Reliability Report was completed in 2017. The intent of the report is to assist the Township with planning in order to continue to provide exceptional quality and quantity of safe drinking water in accordance with the Safe Drinking Water Act (SDWA) to its existing and future customers. The Report contains information on the overall performance of the water system, water usage, storage capacity, well capacity, population growth patterns, and provides recommendations for improving the reliability of the water system. The report contains a comprehensive list of capital improvements that will be necessary in the next five, ten, and twenty years to meet the requirements of the Safe Drinking Water Act (SDWA).

In 2013, the Township underwent a Capitol improvement project to include watermain extension and installation of two (2) control valve stations with the intentions to combine the existing water system (which was composed of two (2) Service Districts) and create one (1) service district. Once implemented and were operational, the Isabella and Mission Road Water Supply (Upper Pressure Zone) and Treatment Facilities became the primary source of water to meet the domestic and fire demands for all the users of the system. The Meridian Treatment Facility (lower pressure zone) remains in service and provides additional system reliability. The distribution of water is from east to west on a continuous basis with the ability to reverse during emergency situations.

Based upon the findings of the 2017 Water Reliability Report and Capital Improvement Plan completed by GFA in 2017, the existing capacity of the water supply (source, treatment and pumped) was identified to be deficient within the next five years by 200 gpm and ultimately 850 gpm to meet the projected twenty year demands for the system. Requirements of the SDWA state that the firm capacity of the system must be capable of meeting the maximum demands, meaning the largest well taken offline. To comply and meet the criteria the report recommended the installation of a high service booster pump to be installed in the River Road Control Valve Station to allow for a reliable means for water to move both east and west without restriction and back to the Upper Pressure Zone. This will allow the Township to account for the full storage capacity volume of the Lincoln Road elevated storage tank. The scope of this project would include the implementation of a booster pump to be installed in the River Road Control Valve station providing the necessary capacity to meet the 10- year demands for source water and the 20-year projected demands for the treated and pumped water. The control valve station building when constructed was oversized to accommodate this future pump.

The contract to design the project was awarded to Gourdie Frasier in 2021. The design was completed in 2021 and the EGLE permit was received in early 2022. Upon receipt of the EGLE permit the project was bid with two alternates. Alternate A includes the installation of the high service pump, electrical, piping, and appurtenances by the contractor. Alternate B includes the installation of a prefabricated skid package. The skid package is a built in the factory unit which is brought to the site and then connected to onsite piping and electrical. The two alternates were presented in the Request for Proposal in order to determine the most cost-effective method of equipment purchase and installation. Three bids were received for the project.

These bids are as follows:

Contractor	Total Bid	Alternate
Robinson Electrical & Mechanical	\$405,476.00	Alternate A
Robinson Electrical & Mechanical	\$463,187.00	Alternate B
Countyline Power LLC	\$339,574.00	Alternate A
Countyline Power LLC	\$390,944.00	Alternate B
J Ranck Electric	\$367,368.00	Alternate A
J Ranck Electric	\$427,167.00	Alternate B

Upon review of the bid prices, the total project came in higher than anticipated. The most recent cost estimate for construction was \$238,150.00. It has been determined that the current bidding market, equipment availability, increased equipment prices, labor availability, recent increased fuel prices, and increased labor cost all contributed to the increased bid price received. This has been evident in other projects and purchases bid in late 2021 and 2022.

SCOPE OF SERVICES

This project involves the following general work items:

- Installation of a high service pump including SCADA, electrical upgrades to backup power supply and piping modification to be installed in the existing River Road Control Building.

JUSTIFICATION

Completion of this project will directly benefit the water users by providing exceptional quality and quantity of safe drinking water in accordance with the Safe Drinking Water Act to its existing and future customers.

The addition of a booster pump at the River Road valve station will facilitate the incorporation of the Meridian Road well site capacity and increase our storage computation rating. This will provide the necessary capacity to meet the five-to-ten-year firm capacity requirements for source water in accordance with the State of Michigan EGLE. Further delay of this project will impact the township’s water system reliability and ability to provide firm capacity requirements during high customer usage.

PROJECT IMPROVEMENTS

Board of Trustees goals addressed by this agreement (From Policy 1.0: Global End).

- 1. Community well-being and common good**
- 2. Health and Commerce**

COSTS

Project Cost:

Expenditure	Cost
Engineering Cost (project design, SCADA design, bidding, construction observation, Close-out services & start-up services) – previously awarded	\$43,500.00
Construction Cost (if approved)	\$339,574.00
Total Project Cost	\$383,074.00

PROJECT FUNDING

FY2022 Budget Project Funding:

Township Water Fund	\$254,000.00
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Approval of the construction contract will require a budget adjustment in the water fund in the amount of \$129,074.00.

PROJECT TIME TABLE

Construction 2022- Dependent on availability of equipment and materials.

RESOLUTION

Approval of the construction contract with Countyline Power LLC, in the amount of \$339,574.00 for the installation of high service pumps at the River Road Control Valve Station.

Resolved by _____ Seconded by _____

Yes:
No:
Absent:



March 29, 2022

Union Township Board of Trustees
Charter Township of Union
2010 South Lincoln Road
Mt. Pleasant, MI 48858

Re: Charter Township of Union
Letter of Recommendation for River Road High Service Pump Installation
GFA #21092

Dear Township Board:

We have reviewed the bids received on Wednesday March 23rd, 2022 for the above referenced project. The three (3) responsive bidders to the project and their bid prices are summarized as follows:

Alternate A	Bid
1. County Line Power, LLC	\$339,574.00
2. J Ranck Electric	\$367,368.00
3. Robinson Electrical and Mechanical	\$405,476.00
Alternate B	
4. County Line Power, LLC	\$390,944.00
5. J Ranck Electric	\$427,167.00
6. Robinson Electrical and Mechanical	\$462,587.00

Upon review of the bid prices, the total project came in higher than anticipated as the original engineer estimate was \$238,150.00. The cost estimate was originally generated in February 2022 and was based upon actual quotes from the specified equipment manufacturers, control integrators, and electrical utility suppliers, along with a multiplier to account for installation.

Gourdie-Fraser evaluated the received bids to gain some insight on the price discrepancy and high prices. From our research it was apparent that equipment prices had risen and exceeded quotes due to material, labor and shipping challenges. Secondly contractor and material availability along with current fuel prices also played a significant factor on bid price. Unfortunately, this has been the current trend in our market with the status of the unpredictable economy creating a large discrepancy between engineer estimates and actual bid prices.

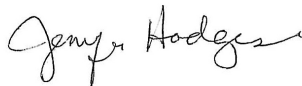
March 29, 2022

Page 2 of 2

GFA and Township staff did anticipate the potential of unfavorable prices and therefore did create separate drawings and bid tabulations allowing two (2) alternates for this project: Alternate A was conventional pump and mechanical piping supply and installation whereas Alternate B was a pump skid package with minimal piping to supply and install. Based previous work history with County Line Power, LLC, it is our recommendation to the board that they approve County Line Power, LLC as the low bidder for the bid price amount of \$339,574.00. GFA will be providing all construction administration and oversight for this project and continue to look for opportunities to save costs as they present themselves.

Please contact me if you have any questions.

Very truly yours,
GFA

A handwritten signature in black ink that reads "Jennifer Hodges". The signature is written in a cursive, flowing style.

JENNIFER HODGES, P.E.
Project Manager

Bid Results
Charter Township of Union
River Road High Service Pump
GFA Project No. 21092

Alternate A				County Line Power, LLC		J Ranck Electric		Robinson E&M Inc	
No.	Item	Unit	Est. Qty.	Unit Price	Item Cost	Unit Price	Item Cost	Unit Price	Item Cost
1	Mobilization	LS	1	\$11,444.00	\$11,444.00	\$11,287.00	\$11,287.00	\$15,000.00	\$15,000.00
2	High Service Pump	LS	1	\$67,243.00	\$67,243.00	\$81,674.00	\$81,674.00	\$53,850.00	\$53,850.00
3	Water Main, D.I., 8"	LF	50	Included in line 4		Included in line 4		\$1,363.02	\$68,151.00
4	Mechanical Piping, Valves, and Fittings	LS	1	\$63,193.00	\$63,193.00	\$78,158.00	\$78,158.00	\$12,375.00	\$12,375.00
5	Instrumentation	LS	1	\$17,255.00	\$17,255.00	\$18,106.00	\$18,106.00	\$32,750.00	\$32,750.00
6	Site Utility Allowance (Electrical & Propane)	LS	\$12,500	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00
7	Interior Electrical Improvements	LS	1	\$42,904.00	\$42,904.00	\$34,944.00	\$34,944.00	\$61,625.00	\$61,625.00
8	Generator & Automatic Transfer Switch	LS	1	\$84,314.00	\$84,314.00	\$91,289.00	\$91,289.00	\$108,750.00	\$108,750.00
9	Variable Frequency Drive Allowance	LS	\$18,300	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00
10	SCADA & Programming Allowance	LS	\$16,400	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00
11	Site Restoration	LS	1	\$6,021.00	\$6,021.00	\$4,710.00	\$4,710.00	\$5,775.00	\$5,775.00
TOTAL BIDS				\$339,574.00		\$367,368.00		\$405,476.00	

Alternate B				County Line Power, LLC		J Ranck Electric		J Ranck Electric	
No.	Item	Unit	Est. Qty.	Unit Price	Item Cost	Unit Price	Item Cost	Unit Price	Item Cost
1	Mobilization	LS	1	\$11,444.00	\$11,444.00	\$11,360.00	\$11,360.00	\$15,000.00	\$15,000.00
2	High Service Pump Skid Package	EA	1	\$125,273.00	\$125,273.00	\$150,568.00	\$150,568.00	\$111,600.00	\$111,600.00
3	Water Main, D.I., 8"	LF	30	Included in line 4		Included in line 4		\$2,270.40	\$68,112.00
4	Mechanical Piping, valves and Fittings not included with Skid	LS	1	\$56,533.00	\$56,533.00	\$70,389.00	\$70,389.00	\$12,375.00	\$12,375.00
5	Instrumentation	LS	1	\$17,255.00	\$17,255.00	\$18,250.00	\$18,250.00	\$32,750.00	\$32,750.00
6	Site Utility Allowance (Electrical & Propane)	LS	\$12,500	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00
7	Interior Electrical Improvements	LS	1	\$42,904.00	\$42,904.00	\$35,058.00	\$35,058.00	\$61,625.00	\$61,625.00
8	Generator and Automatic Transfer Switch	LS	1	\$84,314.00	\$84,314.00	\$89,607.00	\$89,607.00	\$108,150.00	\$108,150.00
9	Variable Frequency Drive Allowance	LS	\$18,300	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00
10	SCADA & Programming Allowance	LS	\$16,400	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00
11	Site Restoration	LS	1	\$6,021.00	\$6,021.00	\$4,735.00	\$4,735.00	\$5,775.00	\$5,775.00
TOTAL BIDS				\$390,944.00		\$427,167.00		\$462,587.00	

Bid Results
Charter Township of Union
River Road High Service Pump
GFA Project No. 21092

Alternate A				County Line Power, LLC		J Ranck Electric		Robinson E&M Inc	
No.	Item	Unit	Est. Qty.	Unit Price	Item Cost	Unit Price	Item Cost	Unit Price	Item Cost
1	Mobilization	LS	1	\$11,444.00	\$11,444.00	\$11,287.00	\$11,287.00	\$15,000.00	\$15,000.00
2	High Service Pump	LS	1	\$67,243.00	\$67,243.00	\$81,674.00	\$81,674.00	\$53,850.00	\$53,850.00
3	Water Main, D.I., 8"	LF	50	Included in line 4		Included in line 4		\$1,363.02	\$68,151.00
4	Mechanical Piping, Valves, and Fittings	LS	1	\$63,193.00	\$63,193.00	\$78,158.00	\$78,158.00	\$12,375.00	\$12,375.00
5	Instrumentation	LS	1	\$17,255.00	\$17,255.00	\$18,106.00	\$18,106.00	\$32,750.00	\$32,750.00
6	Site Utility Allowance (Electrical & Propane)	LS	\$12,500	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00
7	Interior Electrical Improvements	LS	1	\$42,904.00	\$42,904.00	\$34,944.00	\$34,944.00	\$61,625.00	\$61,625.00
8	Generator & Automatic Transfer Switch	LS	1	\$84,314.00	\$84,314.00	\$91,289.00	\$91,289.00	\$108,750.00	\$108,750.00
9	Variable Frequency Drive Allowance	LS	\$18,300	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00
10	SCADA & Programming Allowance	LS	\$16,400	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00
11	Site Restoration	LS	1	\$6,021.00	\$6,021.00	\$4,710.00	\$4,710.00	\$5,775.00	\$5,775.00
TOTAL BIDS				\$339,574.00		\$367,368.00		\$405,476.00	

Alternate B				County Line Power, LLC		J Ranck Electric		J Ranck Electric	
No.	Item	Unit	Est. Qty.	Unit Price	Item Cost	Unit Price	Item Cost	Unit Price	Item Cost
1	Mobilization	LS	1	\$11,444.00	\$11,444.00	\$11,360.00	\$11,360.00	\$15,000.00	\$15,000.00
2	High Service Pump Skid Package	EA	1	\$125,273.00	\$125,273.00	\$150,568.00	\$150,568.00	\$111,600.00	\$111,600.00
3	Water Main, D.I., 8"	LF	30	Included in line 4		Included in line 4		\$2,270.40	\$68,112.00
4	Mechanical Piping, valves and Fittings not included with Skid	LS	1	\$56,533.00	\$56,533.00	\$70,389.00	\$70,389.00	\$12,375.00	\$12,375.00
5	Instrumentation	LS	1	\$17,255.00	\$17,255.00	\$18,250.00	\$18,250.00	\$32,750.00	\$32,750.00
6	Site Utility Allowance (Electrical & Propane)	LS	\$12,500	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00
7	Interior Electrical Improvements	LS	1	\$42,904.00	\$42,904.00	\$35,058.00	\$35,058.00	\$61,625.00	\$61,625.00
8	Generator and Automatic Transfer Switch	LS	1	\$84,314.00	\$84,314.00	\$89,607.00	\$89,607.00	\$108,150.00	\$108,150.00
9	Variable Frequency Drive Allowance	LS	\$18,300	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00	\$18,300.00
10	SCADA & Programming Allowance	LS	\$16,400	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00	\$16,400.00
11	Site Restoration	LS	1	\$6,021.00	\$6,021.00	\$4,735.00	\$4,735.00	\$5,775.00	\$5,775.00
TOTAL BIDS				\$390,944.00		\$427,167.00		\$462,587.00	

TO: Board of Trustees **DATE:** April 6, 2022
FROM: Mark Stuhldreher, Township Manager **DATE FOR BOARD CONSIDERATION:** 4/13/2022
PROJECT: PTXT 21-02 - Proposed Zoning Ordinance text amendments
APPLICANT: David Coyne, 1368 N. Harris St., Mt. Pleasant, MI 48858
ACTION REQUESTED: To conduct a Second Reading of the proposed PTXT 21-02 Zoning Ordinance text amendments to increase the maximum allowable height and to adjust the minimum setback standards for ground-mounted solar energy facilities, and to adopt the amendatory ordinance as Township Ordinance Number 22-02.

Current Action X Emergency

Funds Budgeted: If Yes Account # No N/A X

BACKGROUND INFORMATION

The purpose of Section 6.39 (Solar Energy Systems) of the Zoning Ordinance is to allow for establishment of Solar Energy Facilities (SEF) in the Township in a manner that *“protects public health, safety and welfare (and) avoids significant impacts to protected resources”* (such as important agricultural lands, endangered species, and high value biological habitats). It is further the intent of this Section to *“reduce reliance on petroleum supplies, increase local economic development and job creation, reduce greenhouse gas emissions, (and) promote economic development diversification”* (see Section 6.39.A.).

Part Two of the proposed amendatory ordinance includes the specific change requested by Mr. Coyne in his PTXT 21-02 text amendment application. As proposed, the change would expand options for ground-mounted solar array installations in the Township. It would also specifically eliminate a roadblock in the current Ordinance that prevents Mr. Coyne from making use of his preferred ground-mounted solar array as part of a potential future project on a Township site.

Part Three of the proposed amendatory ordinance includes an additional setback-related revision designed to minimize potential adverse visual and other impacts to neighboring properties from the taller solar energy facilities.

Following a public hearing and deliberation held during their February 15, 2022 regular meeting, the Planning Commission took action to recommend to the Board of Trustees that the proposed amendments be adopted as presented. Per Section 307(1) of the Michigan Zoning Enabling Act (Public Act 110 of 2006, as amended), the proposed amendments were also sent to the County for review and comment. On March 10, 2022, the County Planning Commission reviewed the proposed amendments and chose not to offer any comments.

Summary of Public Input Opportunities

The following is a summary of public notices and meetings for the proposed ordinance:

Date	Event	Actions
February 15, 2022	Regular electronic meeting of the Planning Commission via Zoom	Public hearing, deliberation, and action to recommend the amendments to the Board of Trustees for adoption.
March 10, 2022	Regular electronic meeting of the Isabella County Planning Commission	Reviewed the proposed amendatory ordinance. No comments.
March 23, 2022	Regular in-person meeting of the Board of Trustees	Introduction and First Reading of the proposed ordinance.
March 29, 2022	Summary of the proposed ordinance and notice of the date, time, and place of the Second Reading per requirements of the Charter Township Act (Public Act 359 of 1947, as amended).	Posting of the summary, notice, and the proposed ordinance at the Township Hall and under “Announcements” on the Township’s website.
March 30, 2022		Publication of the summary and notice in The Morning Sun newspaper.
April 13, 2022	Regular in-person meeting of the Board of Trustees	Second Reading and consideration of the proposed ordinance for adoption.

SCOPE OF SERVICES

Second Reading and adoption of the proposed set of Zoning Ordinance amendments.

JUSTIFICATION

The proposed amendments would allow for installation of taller ground-mounted solar energy systems in the Township while minimizing adverse impacts through increased setbacks, consistent with the purpose and intent of Section 6.39 (Solar Energy Systems).

GOALS ADDRESSED

Board of Trustees goals addressed by this Ordinance (From Policy 1.0: Global End):

5. Natural environment

The proposed Zoning Ordinance text amendment to expand options for ground-mounted solar energy systems would potentially support the Board of Trustees’ desired outcome to “increase use of alternative forms of energy within Township facilities and operations” (Policy 1.5.4).

COSTS

NA

TIMETABLE

After a Second Reading and adoption by the Board of Trustees, the Zoning Ordinance amendments would take effect on the eighth day following publication of the required notice of adoption under the Michigan Zoning Enabling Act, Public Act 110 of 2006, as amended.

RESOLUTION

To conduct a Second Reading of the proposed PTXT 21-02 Zoning Ordinance text amendments to increase the maximum allowable height and to adjust the minimum setback standards for ground-mounted solar energy facilities, and to adopt the amendatory ordinance as Township Ordinance Number 22-02.

Resolved by _____ Seconded by _____

Yes:

No:

Absent:

**CHARTER TOWNSHIP OF UNION
ISABELLA COUNTY, MICHIGAN**

ORDINANCE NO. 22-02

An ordinance to amend Section 6.39 (Solar Energy Systems) of the Charter Township of Union Zoning Ordinance No. 20-06 to increase the allowable height of ground-mounted solar energy facilities from 20.0 feet to 25.0 feet, to update the minimum required setbacks for all types of solar energy facilities, and to provide for repeal, severability, publication, and an effective date; all by authority of the Michigan Zoning Enabling Act, Public Act 110 of 2006, as amended (MCL 125.3101 et seq.).

THE CHARTER TOWNSHIP OF UNION, ISABELLA COUNTY, MICHIGAN, HEREBY ORDAINS:

PART ONE – Title

This Ordinance shall be known and may be referred to as the “Charter Township of Union Ordinance Number 22-02, Ordinance Amending the Charter Township of Union Zoning Ordinance.”

PART TWO – Amendment to Section 6.39.D. (Height) Requested by David Coyne

Section 6.39 (Solar Energy Systems) is hereby amended to delete and replace subsection 6.39.D. (Height) in its entirety to increase the allowable height of ground-mounted solar energy facilities from 20.0 feet to 25.0 feet, as follows:

D. Height.

For ground mounted systems, height restrictions shall be measured from finished grade below each module in the event the site has topographic changes.

Table 2. Maximum Height Limits

Type	Maximum Height
Ground Mounted	25.0 feet
Roof Mounted	Five (5) feet above roof surface not to exceed the roof ridge

PART THREE – Additional Amendment to Section 6.39.C. (Parcel Line Setbacks) Requested by Staff

Section 6.39 (Solar Energy Systems) is hereby amended to delete subsection 6.39.C. (Parcel Line Setbacks) in its entirety and to insert a new subsection 6.39.C. entitled “Setbacks” to update the minimum required setbacks for all types of solar energy facilities, as follows:

C. Setbacks.

The All elements of the SEF, including but not limited to panels, racking, or inverters, shall conform to the minimum required setback distances specified in Table 1. Fencing, roads, landscaping, and utility interconnection infrastructure may occur within the required setback provided that all other applicable requirements of this Ordinance are satisfied.

Table 1. Minimum Setbacks

Minimum Required Setback	Direct Use Facility		Primary Use Facility	
	Ground-Mounted	Roof-Mounted	Ground-Mounted, Encumbering:	
			Less than two (2) acres	Two (2) acres or more
From all side and rear lot boundaries	200% of SEF height	Minimum required for principal building	75.0 feet	200.0 feet
From all front lot boundaries and road rights-of-way	75.0 feet	Minimum required for principal building	75.0 feet	200.0 feet
From other easements	SEF shall not be located in any utility right-of-way or other easement.			

PART FOUR – Repeal

All ordinances or parts of ordinances in conflict with the provisions of this amendatory ordinance, except as herein provided, are hereby repealed only to the extent necessary to give this amendatory ordinance full force and effect.

PART FIVE – Severability

If any section, subsection, clause, phrase or portion of this amendatory ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision, and such holding shall not affect the validity of the remaining portion thereof.

PART SIX – Publication

The Clerk for the Charter Township of Union shall cause this amendatory ordinance to be published in the manner required by law.

PART SEVEN – Effective Date

This amendatory ordinance was approved and adopted by the Charter Township of Union Board of Trustees, Isabella County, Michigan, on _____, 2022, after initiation and a public hearing by the Planning Commission on February 15, 2022 as required pursuant to the Michigan Public Act 110 of 2006, as amended, and after introduction and a first reading by the Township Board on March 23, 2022 and publication after such first reading as required by Michigan Act 359 of 1947, as amended. This amendatory ordinance shall be effective on _____, 2022, which date is more than seven days after publication of the ordinance as is required by Section 401(6) of Act 110 of 2006, as amended, provided that this effective date shall be extended as necessary to comply with the requirements of Section 402 of Act 110 of 2006, as amended.

CERTIFICATION OF ADOPTION AND PUBLICATION OF TOWNSHIP ORDINANCE

I, Lisa Cody, the duly elected Clerk of the Charter Township of Union, Isabella County, Michigan, hereby certify that the foregoing amendatory ordinance was adopted at a meeting of the Charter Township of Union Board of Trustees on the _____ day of _____, 2022, at which the following named members of the Charter Township of Union Board of Trustees were present and voted in person as follows:

<u>Board of Trustees</u>	<u>Aye</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
Supervisor Bryan Mielke	_____	_____	_____	_____
Clerk Lisa Cody	_____	_____	_____	_____
Treasurer Kim Rice	_____	_____	_____	_____
Trustee Connie Bills	_____	_____	_____	_____
Trustee Jeff Brown	_____	_____	_____	_____
Trustee Bill Hauck	_____	_____	_____	_____
Trustee James Thering	_____	_____	_____	_____

I further certify that a notice of adoption of this amendatory ordinance was published in the Morning Sun, a newspaper of general circulation within the Charter Township of Union on the _____ day of _____, 2022 and that proof of same is filed in the Charter Township of Union Ordinance Book.

Certification Date: _____, 2022

Lisa Cody, Clerk