



VILLAGE OF CALEDONIA UTILITY DISTRICT MEETING AGENDA

Wednesday, December 1, 2021 at 6:00 p.m.
Caledonia Village Hall - 5043 Chester Lane

THIS WILL BE AN IN-PERSON MEETING

- 1. Meeting Called to Order**
- 2. Roll Call**
- 3. Approval of Minutes**
 - a. Utility District Regular Meeting – November 3, 2021
- 4. Citizen Comments**
- 5. Communications and Announcements**
 - a. Racine Water Utility Agenda
 - b. Racine Wastewater Utility Agenda & Minutes
 - c. Operator & Operator Apprentice Update
 - d. Moving of January Utility Commission meeting to January 12, 2022
- 6. Approval of O&M Bills**
 - a. O&M Bills related to the Sewer Utility District
 - b. O&M Bills related to the Water Utility District
 - c. O&M Bills related to the Storm Water Utility District
- 7. Project Updates**
 - a. Construction Contract Status
 - b. Riverbend Drive Lift Station Safety Site
 - c. Riverbend Lift Station & Forcemain Upgrade
 - d. DeBack Industrial Park Phase 3 Improvements
 - e. Annual Televising Program – Sanitary Sewer
 - f. Water Impact Fee / Sewer Connection Fee Update
 - g. EPA Risk & Resilience Assessment and Emergency Response Plan
 - h. Hoods Creek Attenuation Basin Expansion
 - i. Central Lift Station Safety Site & Attenuation Basin
 - j. North Kremer Watermain Project
 - k. Dominican Lift Station Rehab Project
 - l. Erie Street Sanitary Sewer Improvements Project
 - m. Concord Apartments Meter Vault
 - n. Hoods Creek – Aldebaran Brushing Project
 - o. Alcyn Drive
 - p. Douglas Avenue OMG Ditch Project
 - q. Turtle Creek Restoration
 - r. Westview Village Storm Improvements
- 8. Action Items**
 - a. Sewer Mitigation Discussion
 - b. Erno Storm Water Management Plan / Site Grading Plan Conditional Approval
 - c. MS4 Permit Information & Education Program Contract
 - d. Smoke Testing Discussion
- 9. Adjournment**

**Village of Caledonia Utility District Meeting
November 3, 2021**

1. Meeting Called to Order – The Regular Meeting of the Village of Caledonia Utility District was held on Wednesday, November 3, 2021. The meeting was called to order by President Howard Stacey at 6:00 pm.

2. Roll Call – Those present were President Howard Stacey, Commissioners Michael Pirk, Tony Minto, John Strack, Nick Sullivan, and Trustee Lee Wishau. Commissioner Dave Ruffalo was absent. Also, present were Utility Manager Robert Lui, and Utility Director Anthony Bunkelman.

3. Approval of Minutes

a. Upon a motion by Minto and seconded by Pirk, the Commission approved the minutes from the Utility District's previous regular meeting held October 13, 2021. A copy of the minutes has been furnished to each Commissioner. **Motion carried.**

4. Citizen Comments – None

DRAFT

5. Communications and Announcements

a. Racine Water Utility Agenda & Minutes

The Commission looked over the agenda from the October 19th meeting and the minutes from the September 21st & October 19th meetings of the Racine Water Utility.

b. Racine Wastewater Utility Agenda & Minutes

The Commission looked over the agenda and minutes from the October 19th meeting and the agenda from the October 26th meeting of the Racine Wastewater Utility.

c. Operator, Operator Apprentice & Utility Technician Position Update

The Operator and Operator Apprentice positions have not been filled yet. Will be reviewing applications as they come in. The Utility Technician position has been filled. Marc Coss started on November 1st.

6. Approval of O&M Bills

a. Upon a motion by Wishau and seconded by Minto, the Commission approved payment of O&M Bills, related to the Sewer Utility District totaling \$365,688.03. **Motion carried.**

b. Upon a motion by Wishau and seconded by Minto, the Commission approved payment of O&M Bills, related to the Water Utility District totaling \$37,060.49. **Motion carried.**

- c. Upon a motion by Wishau and seconded by Minto, the Commission approved payment of O&M Bills related to the Storm Water Utility District totaling \$73,563.41. **Motion carried.**

7. Project Updates

DRAFT

a. Construction Contract Status

The current contract statuses were shared with the Commissioners.

b. Riverbend Lift Station Safety Site

Working on finalizing the Facilities Plan. To be completed shortly and submitted for review. Once reviewed will be submitted to the DNR.

c. Riverbend Lift Station & Forcemain Upgrade

Working on Facilities Plan. To be completed shortly and submitted to the DNR.

d. DeBack Industrial Park Phase 3 Improvements

Currently in Attorney review. Once done then will be scheduling Public Hearing.

e. Annual Televising Program – Sanitary Sewer

Continuing to perform repairs that staff can perform.

f. Water Impact Fee / Sewer Connection Fee Update

Reached out to Mount Pleasant staff for per acre fee. Awaiting information. Received acreage for study area. Working on alternatives.

g. EPA Risk & Resilience Assessment and Emergency Response Plan

Will work on Sewer plan as time allows. Will also complete Emergency Response Plan for Water as time allows.

h. Hoods Creek Attenuation Basin Expansion

Met with Ray Leffler on October 27 to discuss spoil laydown areas. Proposed to be bid upon obtaining DNR Permitting.

i. Central Lift Station Safety Site & Attenuation Basin

Facility Plan submitted to Racine Wastewater and the Wisconsin DNR. Received acknowledgement from Racine awaiting reply from DNR. Preliminary Design being worked on. Proposed to be bid in April 2023 with Construction May 2023 – July 2024.

j. North Kremer Watermain Project

Contractor began project on October 11th. Project is progressing. PTS is installing watermain and having sections tested as installation progresses.

k. Dominican Lift Station Rehab Project

Split project for a sanitary relay and lift station work. Lift Station Project will be bid closer to direct purchase item availability.

l. Erie Street Sanitary Sewer Improvements

Split project for a sanitary relay and lift station work. Bid opening scheduled for November 2. Received prequalification statements from 9 contractors.

m. Concord Apartments Meter Vault

Southern Wisconsin Appraisal working on appraisal and obtaining easement form Concord Apartments.

n. Hoods Creek – Aldebaran Brushing Project

Working with contractor to have log jams removed.

DRAFT

o. GIS Updates

Will be forwarding information to the Utility Technician for incorporation.

p. Alcyn Drive – Drainage Complaint

Waiting for contractor pricing. Then will respond to owners.

q. Douglas Avenue – OMG Ditch Project

Received and reviewed updated modeling information for the DNR. Will be pursuing a redesign for the channel for parameters from the DNR. Once completed will be permitting and bidding out. Potentially will be performing as Winter work.

r. Turtle Creek Restoration

Working toward having Southern Wisconsin Appraisal begin the appraisals on the properties.

s. Westview Village Storm Improvements

Received preliminary plans and reviewing plans for project.

8. Action Items

a. Water Impact Fee / Sewer Connection Fee Update

Director Bunkelman shared information on what the study calls for versus what the District is collecting. There is a large difference. He also shared scenarios with an acreage component for the various developments to help make up some of the difference.

The Commission would like to have this information presented to the Village Board to have them see the issues and obtain their input.

b. Erie Street Sanitary Sewer Improvements – Contract Award

Director Bunkelman stated that the bid opening was held on November 2 and 6 bids were received. The lowest responsible bidder for the project was Reesman’s Excavating & Grading Inc at \$842,759.00. This was approximately 36% below the Engineer’s Estimate of \$1,320,000.

Upon a motion by Wishau and seconded by Minto, the Commission moved to authorize the Caledonia Utility District to issue the Notice of Award to Reesman’s Excavating & Grading Inc for the Erie Street Sanitary Sewer Improvements Project in the amount of \$842,759.00. **Motion carried.**

Upon a motion by Minto and seconded by Pirk, the Commission moved to authorize the Utility District President and Secretary to execute any contract documents as necessary. **Motion carried.**

DRAFT

c. ERU Fee Setting Resolution for Village Board

Director Bunkelman explained that this is the Resolution that sets the ERU fees for the year and allows the Village to place it on the tax roll.

Upon a motion by Minto and seconded by Sullivan, the Commission moved to forward the Resolution to the Village Board for final adoption. **Motion carried.**

9. Adjournment

Upon a motion by Pirk and seconded by Minto, the Commission moved to adjourn the regular meeting at 7:05pm. **Motion carried.**

Respectively submitted,
Anthony A. Bunkelman P.E. Utility Director



City of Racine

City Hall
730 Washington Ave.
Racine, WI 53403
www.cityofracine.org

Meeting Agenda - Final Waterworks Commission

Tuesday, November 16, 2021

4:00 PM

Virtual - Zoom

Roll Call

0921-21 **Subject:** Approval of Minutes for the October 19, 2021 Meeting

Attachments: water minutes 10.19.21

0885-21 **Subject:** Change Order No. 1 on Contract W-20-8, 2020 Pavement Restoration, Conventional Concrete Systems. (Contractor)

Attachments: w.20.8 co1

0911-21 **Subject:** Request for Final Payment on Contract W-20-8, 2020 Pavement Restoration, Conventional Concrete Systems. (Contractor)

Attachments: w.20.8 rwp
 w.20.8 final

0874-21 **Subject:** Approval of Law 732 Agreement for 2022

Attachments: Local 732 Agreement 2022 Draft

Adjournment

If you are disabled and have accessibility needs or need information interpreted for you, please contact the office of the General Manager at 262.636.9181 at least 48 hours prior to this meeting.

For virtual access:

Or iPhone one-tap :

**US: +13017158592,,83323563030#,,,,*996940# or
+13126266799,,83323563030#,,,,*996940#**

Or Telephone:

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**US: +1 301 715 8592 or +1 312 626 6799 or +1 929 205 6099 or +1 253 215 8782 or
+1 346 248 7799 or +1 669 900 6833**

Webinar ID: 833 2356 3030

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Or an H.323/SIP room system:

H.323: 162.255.37.11 (US West) or 162.255.36.11 (US East)

Meeting ID: 833 2356 3030

Passcode: 996940

SIP: 83323563030@zoomcrc.com

Passcode: 996940



City of Racine

City Hall
730 Washington Ave.
Racine, WI 53403
www.cityofracine.org

Meeting Minutes - Draft

Waterworks Commission

Tuesday, November 16, 2021

4:00 PM

Virtual - Zoom

Roll Call

PRESENT: 6 - John Tate II, Shannon Powell, Matthew Rejc, Cory Mason, Stacy Sheppard and Trevor Jung

ABSENT: 1 - Natalia Taft

EXCUSED: 1 - Paul Vornholt

0921-21

Subject: Approval of Minutes for the October 19, 2021 Meeting

Recommendation: Approve

A motion was made by Mayor Mason, seconded by Sheppard, that this file be Approved

0885-21

Subject: Change Order No. 1 on Contract W-20-8, 2020 Pavement Restoration, Conventional Concrete Systems. (Contractor)

Recommendation: Approve

Interim General Manager presented Change Order No. 1 on Contract W-20-8 in the amount of \$22,525.13 bringing the total contract amount to \$304,449.87 and recommended for approval.

A motion was made by Mayor Mason, seconded by Jung, that this file be Approved

0911-21

Subject: Request for Final Payment on Contract W-20-8, 2020 Pavement Restoration, Conventional Concrete Systems. (Contractor)

Recommendation: Approve

Interim General Manager submitted final pay request on Contract W-20-8 recommending that work performed by Conventional Concrete Systems (Contractor) be accepted and final payment be authorized for a total contract amount of \$304,449.87.

A motion was made by Jung, seconded by Mayor Mason, that this file be Approved

0874-21

Subject: Approval of Law 732 Agreement for 2022

Recommendation: Approve

The Interim General Manager requested approval to offer, Labor Association of

Wisconsin (LAW), Local 732 a wage increase for 2022 in accordance with the provisions of ACT 10. The highest offer possible is a 2.3% increase and recommended approval. The Interim General Manager and Commission President should be authorized to sign the contract.

A motion was made by Sheppard, seconded by Jung, that this file be Approved

Adjournment

There being no further business, meeting adjourned at 4:14 p.m.



City of Racine

City Hall
730 Washington Ave.
Racine, WI 53403
www.cityofracine.org

Meeting Minutes - Final

Wastewater Commission

Tuesday, October 26, 2021

4:00 PM

City Hall Annex, Room 227

Roll Call

PRESENT: 12 - Natalia Taft, John Hewitt, Robert Lui, Stacy Sheppard, Shannon Powell, Claude Lois, John Tate II, Matthew Rejc, Paul Vornholt, Anthony Bunkelman, Trevor Jung and Cory Mason

ABSENT: 2 - Jerrold Klinkosh and Dean Rosenberg

0861-21

Subject: Request for approval of Unplanned Expanded Sewer Facility and Draft COSS for Chicory Road Sewer Improvements

Recommendation: Approve

Due to basement backups to Mt. Pleasant and Racine residents in the Chicory Road area, Brown and Caldwell was contracted to conduct an area preliminary engineering study, which recommended several project alternatives. As an SSR Party to the Sewer Agreement, Mt. Pleasant submitted a request to the Wastewater Commission on June 17, 2021 for a Cost of Service Study (COSS) for a Chicory Road sewer improvements remediation project. The Commission issued notice to all SSR Parties on July 1, 2021 for an Unplanned Expanded Sewer Service Facility request with a 90-day comment period. Per the Sewer Agreement, the Commission also issued notice to all SSR Parties for a draft COSS (prepared by Ruekert-Mielke) for the 2 leading project alternatives with a 40-day comment period.

Upon conclusion of the 90-day project request notice and 40-day draft COSS notice, Brown and Caldwell presented findings of the Chicory Road sewer improvements preliminary study at the Wastewater Commission meeting held October 19, 2021. No SSR Party comments were received for either notice.

Motion and approval was made for project alternative 1BB, which is a combination of 5,000 LF of 36" interceptor sewer upgrade with a 1.7MG storage tank. This project alternative will alleviate basement backups and remediate safety site #11 overflows to the DNR recommended 5-year/6-hour storm event.

The draft COSS value of this project is about \$17.2M to be paid by the SSR Parties Mt. Pleasant (73.6%) and Racine (26.4%). The draft COSS was similarly approved.

A motion was made by Lois, seconded by Mason, that this file be Approved

0552-21

Subject: Resolution Regarding Declaration of Official Intent to Reimburse Chicory Rd Sewer Improvements Project

Recommendation of the Finance and Personnel Committee on

11-08-2021: To approve and authorize the Mayor and City Clerk to sign the Comfort Resolution regarding Declaration of Official Intent to Reimburse for the Chicory Rd Sewer Improvements Project

Fiscal Note: The Racine Wastewater Utility is applying for a Clean Water Fund Loan. All costs expended attributed to the sewer improvements project may be rolled into the loan, and principal forgiveness may be awarded to reduce the amount borrowed

The Interim General Manager submitted a Declaration of Official Intent to Reimburse all costs realized for the purpose of the Chicory Rd Sewer Improvements project and requested that the Mayor and City Clerk be authorized to enter into this agreement. He noted that the Utility may be reimbursed in the future through the Clean Water Fund Loan Program with the State of Wisconsin.

A motion was made by Lois, seconded by Mason, that this file be Referred Finance and Personnel Committee

0842-21

Subject: Presentation by Village of Caledonia Regarding Central Lift Station Facilities Plan

Recommendation on October 19, 2021: Defer

Recommendation on October 26, 2021: Receive and File

Presentation by Tony Bunkelman from Village of Caledonia on the Central Lift Station Facilities Plan. This plan requires WDNR approval and is a component of the overall Caledonia Peak Flow Mitigation Plan to remediate peak flows and restore compliance to past flow capacity exceedence. It was noted that the Facilities Plan includes rehabilitation of the existing Central Lift Station combined with flow attenuation through the construction of a 3.6 MG storage basin. Mr. Bunkelman reiterated that Caledonia has removed the installation of a safety site for excess flow overflow relief as part of the plan. The reasoning for not including a safety site at this time is that historic peak hour flow in this basin since 2007 has been recorded at 15.1 MGD. The Central LS would operate normally up to a peak flow of 12.9 MGD (9,000 gpm); above that flow rate, flow would be diverted to the storage tank. Water stored in the tank would be discharged back to the Caledonia force main sewer for treatment when peak flow subsides. Through the use of the storage tank, peak flow up to 27.9 MGD can be maintained within the system. The 27.9 MGD flow coincides with WDNR recommended 5-year / 6-hour storm event provided in the Utility 20-year Facilities Plan.

Flow above 27.9 MGD would then be bypassed in a future safety site or could be collected with additional storage capacity. Since the highest recorded peak flow is 15.1 MGD, and the Facilities Plan provides protection up to 27.9 MGD, Caledonia does not foresee a need for a safety site at this time.

A motion was made by Sheppard, seconded by Lois, that this file be Received and Filed

Adjournment

There being no further business, meeting adjourned at 5:04 p.m.



City of Racine

City Hall
730 Washington Ave.
Racine, WI 53403
www.cityofracine.org

Meeting Agenda - Final Wastewater Commission

Tuesday, November 16, 2021

4:30 PM

Virtual - Zoom

Roll Call

- 0920-21 **Subject:** Approval of Minutes for the October 19 & 26, 2021 Meeting
- Attachments:** [ww minutes 10.19.21](#)
 [ww minutes 10.26.21](#)
- 0877-21 **Subject:** Change Order No. 2 on Contract D-19, W.6th Street Interceptor
Sewer Relocation, Minger Construction (Contractor)
- Attachments:** [co 2 d19](#)
- 0829-21 **Subject:** Request for Final Payment Request for Final Payment on
Contract D-19, W. 6th Street Interceptor Relocation, Minger Construction,
Inc. (Contractor)
- Attachments:** [final aecom d19](#)
- 0875-21 **Subject:** Submittal of Pretreatment Rates for 2022
- Attachments:** [2022 rates](#)
 [2022 Proposed Costs percentage](#)
- 0883-21 **Subject:** Change Order No. 4 for Racine Facilities Plan Study, AECOM
(Consultant)
- Attachments:** [facilities proposal](#)
 [facilities contract](#)
- 0884-21 **Subject:** Consideration of Purchase Regarding Engine / Blower Upgrade
Equipment - Rusty Schroedel from AECOM invited to meeting

Adjournment

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Meeting ID: 883 0092 3607

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City of Racine

City Hall
730 Washington Ave.
Racine, WI 53403
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Meeting Minutes - Draft

Wastewater Commission

Tuesday, November 16, 2021

4:30 PM

Virtual - Zoom

Roll Call

PRESENT: 9 - Natalia Taft, Robert Lui, Stacy Sheppard, Claude Lois, John Tate II, Matthew Rejc, Anthony Bunkelman, Trevor Jung and Cory Mason

ABSENT: 3 - Shannon Powell, Jerrold Klinkosh and Dean Rosenberg

EXCUSED: 2 - John Hewitt and Paul Vornholt

0920-21

Subject: Approval of Minutes for the October 19 & 26, 2021 Meeting

Recommendation: Approve

A motion was made by Lui, seconded by Mason, that this file be Approved

0877-21

Subject: Change Order No. 2 on Contract D-19, W.6th Street Interceptor Sewer Relocation, Minger Construction (Contractor)

Recommendation: Approve

Interim General Manager presented Change Order No. 2 on Contract D-19 in a credit amount of \$16,530.00 bringing the total contract amount to \$1,328,123.81 and recommended for approval.

A motion was made by Lui, seconded by Mason, that this file be Approved

0829-21

Subject: Request for Final Payment on Contract D-19, W. 6th Street Interceptor Relocation, Minger Construction, Inc. (Contractor)

Recommendation: Approve

Interim General Manager submitted final pay request on Contract D-19. Recommending that work performed by Minger Construction (Contractor) be accepted and final payment be authorized for a total contract amount of \$1,328,123.81.

A motion was made by Lui, seconded by Sheppard, that this file be Approved

0875-21

Subject: Submittal of Pretreatment Rates for 2022

Recommendation: Approve

Interim General Manager presented the rates for 2022 to be issued to industrial users for utility administrative, inspection, sampling and laboratory activities conducted under the industrial pretreatment program.

A motion was made by Lui, seconded by Tate II, that this file be Approved

0883-21

Subject: Change Order No. 4 for Racine Facilities Plan Study, AECOM (Consultant)

Recommendation: Approved

AECOM has received additional inquiries from WDNR and SEWRPC regarding submittal of the draft 20-year Facilities Plan. Interim General Manager submitted Change Order No. 4 in the amount of \$59,600.00. Extra effort is needed to respond to these questions in order to secure plan approval.

A motion was made by Lui, seconded by Sheppard, that this file be Approved

0884-21

Subject: Consideration of Purchase Regarding Engine / Blower Upgrade Equipment - Rusty Schroedel from AECOM invited to meeting

AECOM gave a presentation regarding the pre-selection purchase of blower equipment associated to the engine / blower plant upgrade. Commission would like to hold for further detail to consider the purchase at next meeting.

Adjournment

There being no further business, meeting adjourned at 5:56 p.m.

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
ACH - SUPERFLEET								
1730	ACH - SUPERFLEET	EJ974 10/26/2	FUEL FOR DISTRICT VEHICLES	10/20/2021	177.55	.00		501-00-63200 Fuel, Oil, Fluids
	Total ACH - SUPERFLEET:				177.55	.00		
ACH - UNEMPLOYMENT INSURANCE								
386	ACH - UNEMPLOYMENT INSUR	102421-10312	UNEMPLOYMENT BENEFIT 102	10/31/2021	93.18	.00		501-00-50180 Unemployment
	Total ACH - UNEMPLOYMENT INSURANCE:				93.18	.00		
DIGGERS HOTLINE								
519	DIGGERS HOTLINE	211068901	DIGGERS HOTLINE LOCATES	10/31/2021	538.35	.00		501-00-64240 Building Repairs & Maintenance
	Total DIGGERS HOTLINE:				538.35	.00		
FOTH INFRASTRUCTURE & ENVIRO, LLC								
666	FOTH INFRASTRUCTURE & EN	75159	RIVERBEND L.S. SAFETY SITE	11/16/2021	9,497.00	.00		501-18725-000 CIP-Riverbend Safety Site
666	FOTH INFRASTRUCTURE & EN	75160	CADDY VISTA IMPROVEMENTS	11/16/2021	1,155.00	.00		501-18729-000 Caddy Vista Lift Stations
666	FOTH INFRASTRUCTURE & EN	75170	HOODS CREEK BASIN EXPANSI	11/16/2021	8,726.35	.00		501-18736-000 CIP-Hoods Creek Attenuation
666	FOTH INFRASTRUCTURE & EN	75172	GENERAL ENGINEERING	11/16/2021	884.00	.00		501-00-61340 Engineering Design Charges
666	FOTH INFRASTRUCTURE & EN	75177	GIS MAPPING	11/16/2021	145.70	.00		501-00-62103 Mapping
	Total FOTH INFRASTRUCTURE & ENVIRO, LLC:				20,408.05	.00		
FRANK BOUCHER								
673	FRANK BOUCHER	207062	VEHICLE # 1 NEW RADIATOR	11/11/2021	131.24	.00		501-00-63300 Vehicle Repairs & Maintenance
	Total FRANK BOUCHER:				131.24	.00		
KONICA MINOLTA								
1090	KONICA MINOLTA	9008175071	OCTOBER 2021 OFFICE COPIE	11/06/2021	65.59	.00		501-00-64030 Office Supplies
	Total KONICA MINOLTA:				65.59	.00		
KORTENDICK HARDWARE								
1096	KORTENDICK HARDWARE	145784	AIR FRESHENER, DISH SOAP,	10/27/2021	31.62	.00		501-00-64030 Office Supplies
1096	KORTENDICK HARDWARE	146312	HOODS CREEK L.S. HEATER &	11/17/2021	64.78	.00		501-00-64240 Building Repairs & Maintenance
	Total KORTENDICK HARDWARE:				96.40	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
LIGHTHOUSE COMMUNICATIONS								
1170	LIGHTHOUSE COMMUNICATIO	1141121	3RD QTR. 2021 BILLING & DELI	11/14/2021	3,094.19	.00		501-00-64040 Postage & Shipping
1170	LIGHTHOUSE COMMUNICATIO	1141121	3RD QTR. 2021 BILLING & DELI	11/14/2021	1,579.28	.00		501-00-64030 Office Supplies
	Total LIGHTHOUSE COMMUNICATIONS:				4,673.47	.00		
NETWORK SPECIALIST OF RACINE, INC.								
1390	NETWORK SPECIALIST OF RAC	40752	PHONE & INTERNET UPGRADE	04/20/2021	1,503.75	.00		501-00-64320 IT Infrastructure
1390	NETWORK SPECIALIST OF RAC	41517	AUGUST 2021 SERVER MAINT	11/02/2021	86.25	.00		501-00-64320 IT Infrastructure
1390	NETWORK SPECIALIST OF RAC	41586	COMPUTER SERVER BACK UP	11/14/2021	125.00	.00		501-00-64320 IT Infrastructure
	Total NETWORK SPECIALIST OF RACINE, INC.:				1,715.00	.00		
PAYNE & DOLAN, INC.								
1474	PAYNE & DOLAN, INC.	1774689	STONE FOR DUMP PIT	11/04/2021	42.82	.00		501-00-64240 Building Repairs & Maintenance
	Total PAYNE & DOLAN, INC.:				42.82	.00		
SPECTRUM ENTERPRISE								
1832	SPECTRUM ENTERPRISE	015536911142	OFFICE INTERNET SERVICE	11/14/2021	79.99	.00		501-00-64150 Communication Services
	Total SPECTRUM ENTERPRISE:				79.99	.00		
U. S. CELLULAR								
2026	U. S. CELLULAR	0472640493	ALL UTILITY DISTRICT CELL PH	11/06/2021	149.84	.00		501-00-64150 Communication Services
2026	U. S. CELLULAR	0473283202	HOODS CREEK BASIN REPEAT	11/10/2021	7.02	.00		501-00-64150 Communication Services
	Total U. S. CELLULAR:				156.86	.00		
ULINE								
2030	ULINE	141281137	SAFETY SUPPLIES	11/12/2021	1,107.78	.00		501-00-64070 Work Supplies
	Total ULINE:				1,107.78	.00		
UTILITY VENDOR REFUND								
8996	UTILITY VENDOR REFUND	000-5266-00	UTILITY BILL REFUND, DUPILCA	11/11/2021	74.90	.00		501-00-46251 Residential Service
	Total UTILITY VENDOR REFUND:				74.90	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
VERIZON WIRELESS								
2068	VERIZON WIRELESS	9891838349	HOODS CREEK BASIN REAPTE	11/01/2021	20.01	.00		501-00-64150 Communication Services
Total VERIZON WIRELESS:					20.01	.00		
WAREHOUSE DIRECT								
2099	WAREHOUSE DIRECT	5099156-0	OFFICE SUPPLIES	11/11/2021	95.38	.00		501-00-64030 Office Supplies
Total WAREHOUSE DIRECT:					95.38	.00		
WASTE MANAGEMENT								
2101	WASTE MANAGEMENT	0689346-2811-	DISPOSAL OF SEWER GRIT FR	11/01/2021	443.20	.00		501-00-64240 Building Repairs & Maintenance
Total WASTE MANAGEMENT:					443.20	.00		
Grand Totals:					29,919.77	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
ACH - SUPERFLEET								
1730	ACH - SUPERFLEET	EJ974 10/26/2	FUEL FOR DISTRICT VEHICLES	10/20/2021	177.56	.00		500-00-63200 Fuel, Oil, Fluids
	Total ACH - SUPERFLEET:				177.56	.00		
ACH - UNEMPLOYMENT INSURANCE								
386	ACH - UNEMPLOYMENT INSUR	102421-10312	UNEMPLOYMENT BENEFIT 102	10/31/2021	93.17	.00		500-00-50180 Unemployment
	Total ACH - UNEMPLOYMENT INSURANCE:				93.17	.00		
BJELAJAC & KALLENBACH, LLC								
210	BJELAJAC & KALLENBACH, LL	21115-046D	WIND POINT APARTMENTS	10/31/2021	521.40	.00		500-00-61100 Legal Fees
	Total BJELAJAC & KALLENBACH, LLC:				521.40	.00		
CORE & MAIN LP								
405	CORE & MAIN LP	P847706	MISC. WATERMAIN REPAIR PAR	10/27/2021	983.02	.00		500-00-64240 Building Repairs & Maintenance
	Total CORE & MAIN LP:				983.02	.00		
DICK'S ROOF REPAIR SERVICE INC.								
9200	DICK'S ROOF REPAIR SERVICE	16990	DUNKELOW RD. BOOSTER STA	11/11/2021	2,250.00	.00		500-00-64240 Building Repairs & Maintenance
	Total DICK'S ROOF REPAIR SERVICE INC.:				2,250.00	.00		
DIGGERS HOTLINE								
519	DIGGERS HOTLINE	211068901	DIGGERS HOTLINE LOCATES	10/31/2021	538.35	.00		500-00-64240 Building Repairs & Maintenance
	Total DIGGERS HOTLINE:				538.35	.00		
FOTH INFRASTRUCTURE & ENVIRO, LLC								
666	FOTH INFRASTRUCTURE & EN	75160	CADDY VISTA IMPROVEMENTS	11/16/2021	86.00	.00		500-18729-107 Caddy Vista Lift Station
666	FOTH INFRASTRUCTURE & EN	75169	RISK & RESILLIENCE REPORT	11/16/2021	594.50	.00		500-00-61010 EPA Risk Resilience
666	FOTH INFRASTRUCTURE & EN	75171	N.KREMER WATERMAIN RELAY	11/16/2021	49,176.45	.00		500-18735-107 CIP - North Kremer Watermain
666	FOTH INFRASTRUCTURE & EN	75172	GENERAL ENGINEERING	11/16/2021	884.00	.00		500-00-61340 Engineering Design Charges
666	FOTH INFRASTRUCTURE & EN	75173	2021 BLACKTOP PATCHES	11/16/2021	703.00	.00		500-18736-107 CIP - 2021 WATER MAIN REPAVING
666	FOTH INFRASTRUCTURE & EN	75177	GIS MAPPING	11/16/2021	145.70	.00		500-00-62103 Mapping
	Total FOTH INFRASTRUCTURE & ENVIRO, LLC:				51,589.65	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
FRANK BOUCHER								
673	FRANK BOUCHER	207062	VEHICLE # 1 NEW RADIATOR	11/11/2021	131.25	.00		500-00-63300 Vehicle Repairs & Maintenance
	Total FRANK BOUCHER:				131.25	.00		
G & F EXCAVATING								
687	G & F EXCAVATING	35163	2 WATERBREAKS	10/29/2021	7,506.50	.00		500-00-64240 Building Repairs & Maintenance
687	G & F EXCAVATING	35164	WATERBREAK	10/30/2021	3,875.00	.00		500-00-64240 Building Repairs & Maintenance
687	G & F EXCAVATING	35176	1 WATERBREAK AND 2 VALVE R	11/08/2021	8,991.00	.00		500-00-64240 Building Repairs & Maintenance
687	G & F EXCAVATING	35179	RELAY WATER SERVICE TO CH	11/09/2021	2,535.00	.00		500-18735-107 CIP - North Kremer Watermain
	Total G & F EXCAVATING:				22,907.50	.00		
KONICA MINOLTA								
1090	KONICA MINOLTA	9008175071	OCTOBER 2021 OFFICE COPIE	11/06/2021	65.59	.00		500-00-64030 Office Supplies
	Total KONICA MINOLTA:				65.59	.00		
KORTENDICK HARDWARE								
1096	KORTENDICK HARDWARE	145784	AIR FRESHENER, DISH SOAP,	10/27/2021	31.61	.00		500-00-64030 Office Supplies
1096	KORTENDICK HARDWARE	146231	CRESTVIEW WELL HOUSE HEA	11/12/2021	10.79	.00		500-00-64240 Building Repairs & Maintenance
	Total KORTENDICK HARDWARE:				42.40	.00		
LIGHTHOUSE COMMUNICATIONS								
1170	LIGHTHOUSE COMMUNICATIO	1141121	3RD QTR. 2021 BILLING & DELI	11/14/2021	3,094.20	.00		500-00-64040 Postage & Shipping
1170	LIGHTHOUSE COMMUNICATIO	1141121	3RD QTR. 2021 BILLING & DELI	11/14/2021	1,579.27	.00		500-00-64030 Office Supplies
	Total LIGHTHOUSE COMMUNICATIONS:				4,673.47	.00		
NETWORK SPECIALIST OF RACINE, INC.								
1390	NETWORK SPECIALIST OF RAC	40752	PHONE & INTERNET UPGRADE	04/20/2021	1,503.75	.00		500-00-64320 IT Infrastructure
1390	NETWORK SPECIALIST OF RAC	41517	AUGUST 2021 SERVER MAINTA	11/02/2021	86.25	.00		500-00-64320 IT Infrastructure
1390	NETWORK SPECIALIST OF RAC	41586	COMPUTER SERVER BACK UP	11/14/2021	125.00	.00		500-00-64320 IT Infrastructure
	Total NETWORK SPECIALIST OF RACINE, INC.:				1,715.00	.00		
NORTHERN LAKE SERVICE, INC								
1411	NORTHERN LAKE SERVICE, IN	409253	4TH QTR. 2021 VILLAGE HALL	10/28/2021	30.00	.00		500-00-62560 Water Sampling and Testing
1411	NORTHERN LAKE SERVICE, IN	409576	3RD QTR. 2021 SAMPLES	11/04/2021	590.00	.00		500-00-62560 Water Sampling and Testing

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
Total NORTHERN LAKE SERVICE, INC.:								
					620.00	.00		
OAK CREEK WATER UTILITY								
1423	OAK CREEK WATER UTILITY	4923	OCTOBER 2021 BAC "T" SAMPL	10/25/2021	365.00	.00		500-00-62560 Water Sampling and Testing
1423	OAK CREEK WATER UTILITY	4938	NOVEMBER 2021 BAC "T" SAMPL	11/03/2021	365.00	.00		500-00-62560 Water Sampling and Testing
Total OAK CREEK WATER UTILITY:								
					730.00	.00		
RAY HINTZ INC.								
1592	RAY HINTZ INC.	62913	FILL IN WATERBREAK 716 HIEL	11/12/2021	33.00	.00		500-00-64240 Building Repairs & Maintenance
1592	RAY HINTZ INC.	62927	4934 CHARLES STREET WATER	11/19/2021	24.00	.00		500-18735-107 CIP - North Kremer Watermain
Total RAY HINTZ INC.:								
					57.00	.00		/
SPECTRUM ENTERPRISE								
1832	SPECTRUM ENTERPRISE	015536911142	OFFICE INTERNET SERVICE	11/14/2021	79.99	.00		500-00-64150 Communication Services
Total SPECTRUM ENTERPRISE:								
					79.99	.00		
U. S. CELLULAR								
2026	U. S. CELLULAR	0472640493	ALL UTILITY DISTRICT CELL PH	11/06/2021	149.84	.00		500-00-64150 Communication Services
Total U. S. CELLULAR:								
					149.84	.00		
ULINE								
2030	ULINE	141281137	SAFETY SUPPLIES	11/12/2021	738.52	.00		500-00-64070 Work Supplies
Total ULINE:								
					738.52	.00		
UTILITY VENDOR REFUND								
8996	UTILITY VENDOR REFUND	000-52666-00	UTILITY BILL REFUND, DUPILCA	11/11/2021	74.90	.00		500-00-46251 Residential Service
8996	UTILITY VENDOR REFUND	000-52666-00	UTILITY BILL REFUND, DUPILCA	11/11/2021	74.89	.00		500-00-46255 Public Fire Protection
Total UTILITY VENDOR REFUND:								
					149.79	.00		
VERIZON WIRELESS								
2068	VERIZON WIRELESS	9891838349	HOODS CREEK BASIN REAPTE	11/01/2021	20.00	.00		500-00-64150 Communication Services

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
	Total VERIZON WIRELESS:				20.00	.00		
	WAREHOUSE DIRECT							
2099	WAREHOUSE DIRECT	5099156-0	OFFICE SUPPLIES	11/11/2021	95.38	.00		500-00-64030 Office Supplies
	Total WAREHOUSE DIRECT:				95.38	.00		
	Grand Totals:				88,328.88	.00		

Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	Amount Paid	Date Paid	GL Account and Title
COUNTY MATERIALS CORPORATION								
16	COUNTY MATERIALS CORP	3679425-00	GASKET AND JT TIES GALVANI	10/25/2021	6,312.00	.00		502-00-66151 Culvert Replacements
16	COUNTY MATERIALS CORP	3679966-00	ENDWALLS, MALE AND FEMAL	10/25/2021	6,116.00	.00		502-00-66151 Culvert Replacements
	Total COUNTY MATERIALS CORPORATION:				12,428.00	.00		
DIGGERS HOTLINE								
519	DIGGERS HOTLINE	211068901	DIGGERS HOTLINE LOCATES	10/31/2021	538.35	.00		502-00-64240 Building Repairs & Maintenance
	Total DIGGERS HOTLINE:				538.35	.00		
FOTH INFRASTRUCTURE & ENVIRO, LLC								
666	FOTH INFRASTRUCTURE & EN	0177382	PROJECT #4399.001 ILLICIT DIS	11/11/2021	1,725.57	.00		502-00-62101 MS4 - ILLICIT DISCHARGE
666	FOTH INFRASTRUCTURE & EN	75156	PROJECT #0019C035.01	11/16/2021	10,246.51	.00		502-00-65154 HWY 32 Stream Restoration
666	FOTH INFRASTRUCTURE & EN	75157	PROJECT #0020C030.11 WESTV	11/16/2021	3,394.00	.00		502-00-65156 Westview Village Storm
	Total FOTH INFRASTRUCTURE & ENVIRO, LLC:				15,366.08	.00		
G & F EXCAVATING								
687	G & F EXCAVATING	35181	REPAIR NICHOLSON ROAD	11/17/2021	11,457.00	.00		502-00-66151 Culvert Replacements
687	G & F EXCAVATING	35183	REPAIR ON CADDY LANE	11/12/2021	12,535.50	.00		502-00-66151 Culvert Replacements
	Total G & F EXCAVATING:				23,992.50	.00		
SME SEASONAL SERVICES LLC								
1813	SME SEASONAL SERVICES LL	6083	MOWING - 5 /12 & CHARLES - (1	10/30/2021	130.00	.00		502-00-64260 Grounds Repairs & Maintenance
1813	SME SEASONAL SERVICES LL	6103	MOWING - 10/31/2021 SINGLE C	10/31/2021	1,095.00	.00		502-00-64260 Grounds Repairs & Maintenance
1813	SME SEASONAL SERVICES LL	6103	MOWING - 10/31/2021 SINGLE C	10/31/2021	905.00	.00		502-00-64260 Grounds Repairs & Maintenance
	Total SME SEASONAL SERVICES LLC:				2,130.00	.00		
WESTERN CULVERT & SUPPLY INC.								
2131	WESTERN CULVERT & SUPPLY	064763	CULVERT PIECES AND SECTIO	10/08/2021	11,283.50	.00		502-00-66151 Culvert Replacements
	Total WESTERN CULVERT & SUPPLY INC.:				11,283.50	.00		
	Grand Totals:				65,738.43	.00		

STH 32 Utility Improvements DOT

Sewer & Water

Contractor	Payne and Dolan Inc.		
Original Contract	\$	266,043.63	
Change Order	\$	-	0.0%
Current Contract	\$	266,043.63	
Pay Request	\$	3.12	12/11/2018
Pay Request	\$	2,645.08	8/1/2019
Pay Request	\$	7,396.43	10/3/2019
Pay Request	\$	92,497.63	12/4/2019
Pay Request	\$	80,448.04	12/2/2019
Pay Request	\$	64,166.90	1/2/2020
Pay Request	\$	1,014.86	3/2/2020
Pay Request	\$	1,655.72	4/1/2020
Pay Request	\$	405.27	6/1/2020
Pay Request	\$	1,500.29	9/2/2020
Pay Request	\$	268.21	12/1/2020
Remaining on Contract (Including Retainage)	\$	14,042.08	5.3%
Engineering / Construction Services DOT 12/11/2018	\$	39,906.54	
Pay Request #1 Engineering Only	\$	868.07	6/4/2019
Pay Request #2 Engineering Only	\$	2,685.06	8/1/2019
Pay Request #3 Engineering Only	\$	2,766.76	9/4/2019
Remaining on Contract (Including Retainage)	\$	33,586.65	84.2%
Foth Engineering/Review (7/23/2019 - 6/3/2020)	\$	61,034.29	
Total Project Cost	\$	366,984.46	
Revised 2019 CIP	\$	350,000.00	

DeBack Industrial Park Phase 3 Improvements

Sewer & Water

Contractor	Globe Contractors Inc.		
Original Contract	\$	5,492,315.00	
Change Order #1 (3/15/2019)	\$	5,200.78	0.09%
Change Order #2 (5/7/2019)	\$	31,676.00	0.58%
Change Order #3 (12/2/2020)	\$	8,642.92	0.16%
Change Order #4 (12/2/2020)	\$	(54,347.35)	-0.99%
Total All Change Orders	\$	(8,827.65)	-0.16%
Current Contract	\$	5,483,487.35	
Pay Request #1	\$	2,714,903.07	1/4/2019
Retainage	\$	142,889.64	
Pay Request #2	\$	989,536.31	1/31/2019
Retainage	\$	(5,581.76)	
Pay Request #3	\$	1,170,751.00	3/6/2019
Pay Request #4	\$	66,125.77	3/15/2019
Pay Request #5	\$	37,649.69	4/19/2019
Pay Request #6	\$	58,276.21	5/30/2019
Pay Request #7	\$	288,046.74	9/26/2019
Pay Request #8	\$	158,198.56	10/27/2020
Remaining on Contract (Including Retainage)	\$	0.00	0.0%
Engineering / Construction Services (12/22/2016 - 4/27/2021)	\$	640,053.93	
Total Project Cost	\$	6,169,245.71	
Oversizing Only (Utility District)			
Water	\$	104,890.20	
Sewer	\$	1,247,791.01	
Revised 2019 CIP	\$	1,352,681.21	

North Kremer Watermain

Water

Contractor	PTS Contractors Inc		
Original Contract	\$	2,681,000.00	
Change Order #1	\$	-	0.00%
Current Contract	\$	2,681,000.00	
Pay Request #1 Retainage			
Remaining on Contract (Including Retainage)	\$	2,681,000.00	100%
Design Engineering (2020 - 8/23/2021)	\$	206,069.12	7.69%
Construction Services (7/28/2021 to 8/23/2021)	\$	6,217.49	0.23%
Total Project Cost	\$	2,893,286.61	

Erie Street Sanitary Sewer Improvements

Sewer

Contractor	Reesman's		
Original Contract	\$	842,759.00	
Change Order #1	\$	-	0.00%
Current Contract	\$	842,759.00	
Pay Request #1			
Retainage			
Remaining on Contract (Including Retainage)	\$	842,759.00	100%
Design Engineering (3/29/2020 - 10/18/2021)	\$	117,471.95	13.94%
Construction Services			0.00%
Total Project Cost	\$	960,230.95	

**CALEDONIA UTILITY DISTRICT
SEWER & WATER PROJECTS
PROJECT SUMMARY WORKSHEET**

Riverbend Drive Lift Station Safety Site

- Working on finalizing Facilities Plan. To be completed shortly and submitted for review. Once reviewed will be submitted to the DNR.

Riverbend Drive Lift Station & Forcemain Upgrade

- Working on Facilities Plan. To be completed shortly and submitted to the DNR.

DeBack Industrial Park Phase 3 Improvements

- Currently in Attorney review. Once done then will be scheduling Public Hearing.

Annual Televising Program – Sanitary Sewer

- Continuing to perform repairs that staff can perform.

Water Impact Fee / Sewer Connection Fee Update

- Reached out to Mount Pleasant staff for per acre fee. Awaiting information. Received acreage for study area. Working on alternatives.

EPA Risk & Resilience Assessment and Emergency Response Plan

- Will work on Sewer plan as time allows. Will also complete Emergency Response Plan for Water as time allows.

Hoods Creek Attenuation Basin Expansion

- Will be attending Plan Commission with Fill plan and to inform them of the 2 additional lots. Proposed to bid project upon obtaining DNR permitting.

Central Lift Station Safety Site & Attenuation Basin

- Making minor adjustments to the Facilities Plan based on comments from the DNR. Preliminary Design being worked on. Proposed to be bid in April 2023 with Construction May 2023 – July 2024.

North Kremer Watermain Project

- Project is progressing. PTS is installing watermain and having sections tested as installation progresses. Disturbed asphalt areas have been patched for the Winter.

Dominican Lift Station Rehab Project

- Lift Station Project will be bid closer to direct purchase item availability.

Erie Street Sanitary Sewer Improvements

- Village Board approved Award of Contract on November 15th. Have been in discussion with Reesman's, they plan to perform project in Spring. Will be coordinating a Preconstruction Meeting at that time.

Concord Apartments Meter Vault

- Southern Wisconsin Appraisal working on appraisal and obtaining easement from Concord Apartments.

**CALEDONIA UTILITY DISTRICT
STORM WATER PROJECTS
PROJECT SUMMARY WORKSHEET**

Hoods Creek – Aldebaran Brushing Project

- Looking for contractor to have log jams removed.

GIS Updates

- Utility Technician is compiling information that we have for GIS and creating map.

Alcyn Drive – Drainage Complaint

- Waiting for contractor pricing. Then will respond to owners.

Douglas Avenue – OMG Ditch Project

- Awaiting redesign per DNR recommendations. Once completed will be permitting and bidding out. Potentially will be performing as Winter work.

Turtle Creek Restoration

- Working toward having Southern Wisconsin Appraisal begin the appraisals on the properties.


Westview Village Storm Improvements

- Received preliminary plans and reviewing plans for project.

MEMORANDUM

DATE: Monday, November 22, 2021

TO: Caledonia Utility District

FROM: Anthony A. Bunkelman P.E.
Public Services Director 

RE: Erno Property – 7 Mile Road – Storm Water Management Plan & Pond Grading Plan Conditional Approval

BACKGROUND INFORMATION

Joshua Murray P.E. of Nielsen, Madsen & Barber S.C. has prepared a Storm Water Management Plan and Site Grading Plan for the Erno Residence on 7 Mile Road. The Erno property is part of the Smerchek CSM and is the 19.34-acre parcel on the South side of 7 Mile Road, East of Foley Road. The project involves the construction of a single-family residence, a pole barn, and a Storm Water Management pond.

This development falls under Base Storm Water Regulations. Base Storm Water Regulations are that the 100 yr. post development peak runoff must be reduced to or below the 10 yr. predevelopment peak runoff and the 10 yr. post development peak runoff must be reduced to or below the 2 yr. predevelopment peak runoff. The site must also achieve 80% Total Suspended Solids removal.

The runoff from the development will drain into a storm water pond to be constructed on the site, then discharge to the reconstructed drainage way along the West side of the property. The Storm Water Management Plan that was submitted on October 6 has been reviewed by the Public Services Director and is in conformance with the Ordinance.

The Pond Grading Plan that has been submitted has also been reviewed by the Public Services Director and it too is in conformance with the Ordinance.

It is recommended that conditional approval be granted by the Utility District for this project based on the conditions below.

Included in this packet is the Storm Water Management Plan summary, the Pond Grading Plan, and the November 16th approval letter with conditions.

RECOMMENDATION

Move to conditionally approve the Storm Water Management Plan and Pond Grading Plan for the Erno Property on 7 Mile Road subject to the following:

- 1. All comments on the Public Services Director letter dated November 16th, 2021 are addressed as necessary.**

- 2. The Design Engineer determines that the plans approved by the Caledonia Utility District are technically adequate and are stamped by the Design Engineer.**
- 3. A Storm Water Easement/Maintenance Agreement will need to be granted by the Owner to encompass the Storm Water Pond. The Design Engineer shall provide the following: An Exhibit of the entire property, a Legal Description of the entire property, an Exhibit of the Storm Water Easement, a Legal Description of the Storm Water Easement, and a maintenance plan for the facility (Facility and Outlet).**
- 4. A Financial Guarantee will need to be made and a Deposit Agreement will need to be executed by the Owner to ensure that the Storm Water Pond is installed, asbuilt and certified by the Design Engineer. This is to ensure that the Storm Water Pond is constructed in accordance with the approved plans.**
- 5. A Storm Water Easement is granted by the Owner to encompass the drainage ways that were reconstructed as part of the CSM. The Design Engineer shall provide the following: An Exhibit of the entire property, a Legal Description of the entire property, an Exhibit of the Storm Water Easement, and a Legal Description of the Storm Water Easement.**
- 6. Will need to obtain a Land Disturbance Permit from the Engineering Department.**
- 7. Submit an NOI and any other necessary permits from the Wisconsin DNR.**

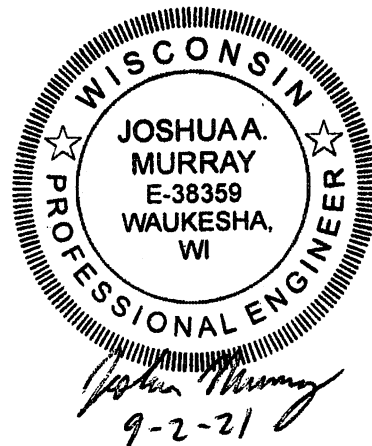
STORM WATER MANAGEMENT PLAN

FOR

Dean Erno
Lot 3 CSM 3254 - Seven Mile Road

Village of Caledonia, Racine County, Wisconsin

July 27, 2021
Revised September 2, 2021



PREPARED FOR:

Dean Erno
508 Clark Avenue
South Milwaukee, WI 53172
Ph: (414) 550-8061
Email: dean.erno@ge.com

PREPARED BY:

Joshua A. Murray, P.E.
Nielsen Madsen & Barber, S.C.
1458 Horizon Boulevard
Suite 200
Racine, WI 53406
Ph: (262) 634-5588
Email: jmurray@nmbc.net

STORM WATER MANAGEMENT PLAN

FOR

Dean Erno

TABLE OF CONTENTS

1. Introduction
2. Methods of Analysis
3. Pre-Developed Conditions
4. Post-Developed Conditions
5. Storm Water Quality and Quantity
6. Routing Data
7. Conclusion

Appendix A

- Soils Map

Appendix B

- WinSLAMM Water Quality Analysis

Appendix C

- HydroCAD Routing Details

Appendix D

- Pre-Developed Conditions Map (PRE-1)
- Post-Developed Conditions Map (DEV-1)

Appendix E

- Sedimentation Basin Calculations
- Culvert Sizing Calculations
- STM-1

INTRODUCTION

Nielsen Madsen + Barber (NMB) was retained by Dean Erno to prepare a Storm Water Management Plan for the proposed development of a single-family residential CSM lot located on the southside of Seven Mile Road in the Village of Caledonia.

The development will consist of a home, pole barn, driveway, landscaping and retention basin.

The Wisconsin Department of Natural Resources (WDNR) Chapter NR 151 of the State of Wisconsin Administrative Code and the Village of Caledonia Post-Construction Stormwater Management Ordinance require a minimum 80% reduction of the Total Suspended Solids (TSS) load for new development sites. The Village of Caledonia Post-Construction Stormwater Management Ordinance requires that the peak discharge rate for the post-developed 10-year and 100-year, 24-hour rainfall events do not exceed the pre-developed peak discharge rates for the 2-year and 10-year, 24-hour rainfall events, respectively.

To address these requirements, a retention basin has been designed to control the peak rates of runoff and the retention basin, along with a grassed swale and filter strip, have been designed to achieve the TSS load reduction.

METHOD OF ANALYSIS

The method used for this storm water analysis was the United States Department of Agriculture, Natural Resources Conservation Service, Urban Hydrology for Small Watersheds, Technical Release No. 55 (TR-55). The specific software is HydroCAD V10, as produced by HydroCAD Software Solutions LLC. In running this model, NMB determined runoff curve numbers (CN) and times of concentration (Tc) for the individual drainage areas. This information was then used to generate storm hydrographs and peak discharge rates. In addition, WinSLAMM V10.4, as produced by PV and Associates, LLC., was utilized to analyze the water quality of the Post-Developed runoff.

PRE-DEVELOPED CONDITIONS

The site is currently farmland with a gravel driveway and parking area. A Pre-Developed Conditions Map can be found in Appendix "D" of this report.

The pre-developed conditions drainage area is described as follows:

PRE-1

Subbasin PRE-1 contains 8.31 acres and is modeled as entirely farmland. The Tc travel path starts in the southeast corner of the basin and continues west overland until it exits on the west side of the site.

POST-DEVELOPED CONDITIONS

The post-developed conditions consist of the proposed single-family residential lot with the pole barn and retention basin. A Post-Developed Conditions Map can be found in Appendix "D" of this report.

The post-developed drainage area has been divided into three sub-basins as follows:

DEV-1 (Area tributary to the proposed retention basin)

Sub-basin DEV-1 contains 6.02 acres and consists of rooftop, pavement, lawn areas, and the proposed retention basin. The Tc travel path starts in the southeast corner of the basin and continues west overland until it reaches the retention basin.

DEV-2 (Undetained area)

Sub-basin DEV-2 contains 1.77 acres and consists of pavement, gravel driveway, and lawn areas. The Tc travel path starts in the lawn area west of the gravel driveway and continues northwest overland until it exits the sub-basin.

DEV-3 (Area tributary to the proposed swale on the east side of the site)

Sub-basin DEV-3 contains 0.52 acres and consists of gravel driveway and lawn areas. The Tc travel path starts near the south side of the sub-basin on the east side of the gravel driveway and continues overland northeast until it reaches the proposed swale where it continues north until it reaches the driveway culvert near the center of the sub-basin.

STORM WATER QUALITY AND QUANTITY

Stormwater quality and quantity standards have been established by the WDNR through the "NR 151 Runoff Management" regulation. This regulation establishes runoff pollution performance standards for post-construction development sites consisting of one acre or more of land disturbing construction activity. The Village of Caledonia has also established its own stormwater quality and quantity standards in its Post-construction Stormwater Management Ordinance.

The proposed development will be required to follow the storm water management standards established by Village of Caledonia in addition to the WDNR which apply as follows:

Infiltration: The regulation states that "Best Management Practices" (BMPs) shall be designed, installed and maintained to infiltrate a sufficient volume of runoff depending on the degree of site imperviousness.

Exemptions from the Village of Caledonia and NR 151 infiltration requirements include the following:

- Areas where the infiltration rate of the soil at the proposed basin site is less than 0.6 inches per hour.
- Parking areas and access roads less than 5,000 S.F. for commercial and industrial developments.
- Redevelopment post-construction sites and
- In-fill development less than 5 acres.

Existing soils have been reviewed using the Web Soil Survey developed by the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS). The Web Soil Survey indicates mostly Martinton silt loam, Aztalan loam, and Hebron sandy loam throughout the site, which are all classified as Hydrologic Soil Group "C" soils. Additionally, from the WDNR Technical Standard 1002, "Site Evaluation for Stormwater Infiltration", silt loam, loam, and sandy loam are listed with design infiltration rates of 0.13, 0.24, and 0.50 inches/hour, respectively. These infiltration rates are all less than the 0.6 inches/hour exemption threshold rate. A map of the existing soils on the site is included in Appendix "A".

Total Suspended Solids Load Reduction: As stated before, NR 151 and Village of Caledonia require a minimum of 80% reduction of the TSS load for new development sites. A WinSLAMM model has been prepared for the post-developed drainage area which includes land usage and treatment methods. The retention basin proposed for the site is designed to have a twelve-foot (12') deep permanent pool, as per the owner's request. This model was run using a 5' depth to treat runoff from the site. In addition, a grassed swale east of the gravel driveway and a filter strip located in DEV-2 have been utilized to treat runoff.

When these parameters were analyzed in WinSLAMM, the wet retention basin, grassed swale, and filter strip were found to provide a TSS reduction of 83.30% for the 8.31-acre drainage area (DEV-1, 2, and 3). The proposed treatment system, as designed, exceeds the NR 151 and Village of Caledonia's treatment goals of 80% TSS reduction. A copy of the WinSLAMM input data and the output summary can be found in Appendix "B" of this report.

Peak Discharge Management: The Village of Caledonia's Post-Construction Stormwater Management Ordinance requires that the peak discharge rate for the post-developed 10-year and 100-year, 24-hour rainfall events do not exceed the pre-developed peak discharge rates for the 2-year and 10-year, 24-hour rainfall events, respectively. This requirement has been achieved through the storage within the proposed retention basin. Detailed sub-basin and routing information can be found in Appendix "C" of this report.

A summary of the proposed retention basin design is as follows:

PROPOSED WET RETENTION BASIN

Contributory Watershed:	6.02 Acres (Dev-1)
Design Surface Area:	51,051 Square Feet (1.172 Acres)
Normal Water Level (NWL):	675.00
Maximum side slope grade:	4:1

High Water Mark (100-Year storm):	676.08
High Water Mark (10-Year storm):	675.52
High Water Mark (2-Year storm):	675.29
Top of Berm:	679.00
Free Board provided:	2.92 Feet
Safety Shelf:	10' Wide (10:1 slope)
Emergency Spillway:	20' Long at 678.00
	100-yr HWM (plugged conditions):
	0.00 cfs @ 676.45

PROPOSED RETENTION BASIN STAGE-STORAGE DATA

Elevation	Area (acres)	Inc. Volume (ac-ft)	Cum. Volume (ac-ft)
675.00	1.172	0.000	0.000
676.00	1.273	1.222	1.222
677.00	1.376	1.324	2.547
678.00	1.718	1.547	4.094
679.00	2.192	1.955	6.049

OUTLET CONTROL STRUCTURE

Proposed Primary Outlet:	Multi-Stage Outlet 40'-12" RCP @ 0.25%, IE @ 675.00 6" Orifice @ 675.00 48" Standpipe @ 677.00
Emergency Overflow:	20' long grass-lined weir with 10:1 side slopes Crest Elevation at 678.00

ROUTING DATA

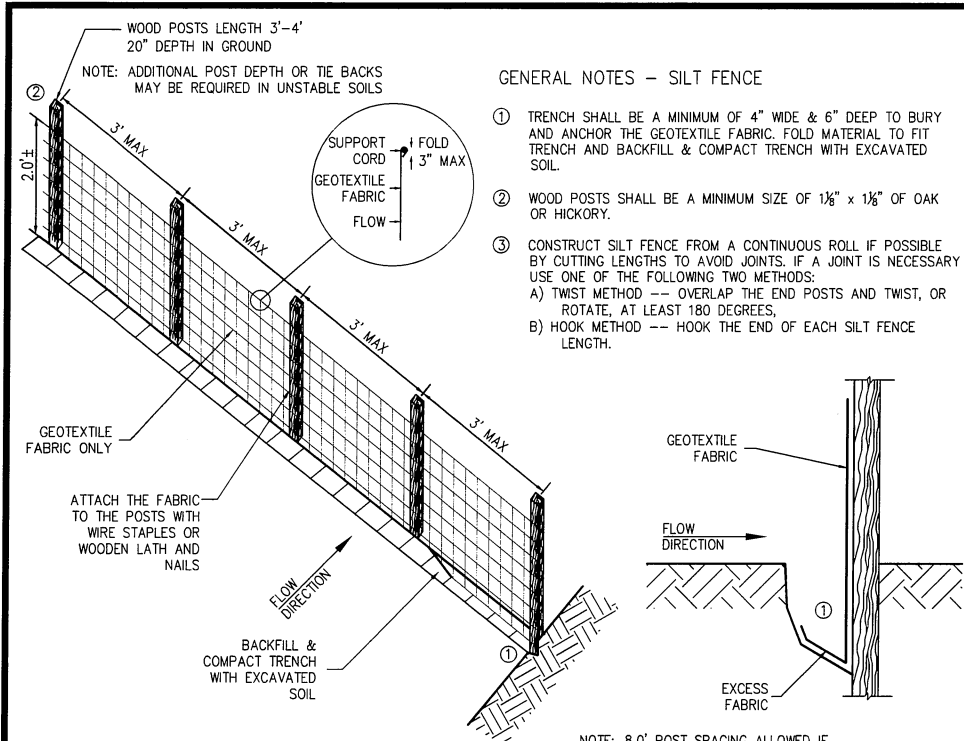
RETENTION BASIN					
	Basin NWL	Peak Inflow	Peak Outflow	HWM	Storage (Ac-ft)
2-Yr. 24-Hour Storm	675.00	4.63 cfs	0.20 cfs	675.29	0.347
10-Yr. 24-Hour Storm	675.00	8.91 cfs	0.49 cfs	675.52	0.628
100-Yr. 24-Hour Storm	675.00	18.22 cfs	0.86 cfs	676.08	1.328

CONCLUSION

The total allowable peak discharges from the site were compared to the post-developed peak discharges rates as follows:

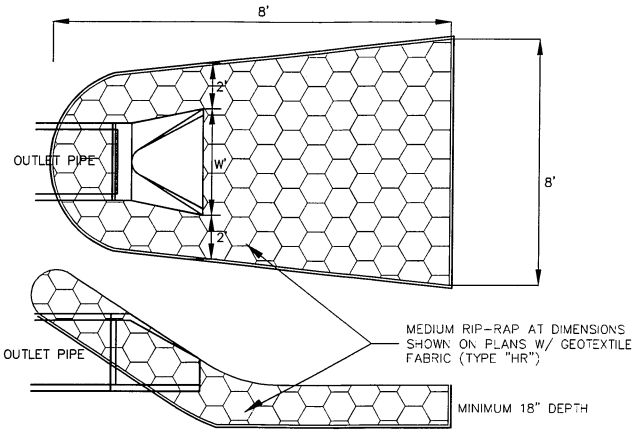
	Pre-Developed Peak Discharge	Total Allowable Discharge	Post-Developed Peak Discharge
Q ₂	6.65 cfs	6.65 cfs	1.81 cfs
Q ₁₀	13.08 cfs	6.65 cfs	3.61 cfs
Q ₁₀₀	27.14 cfs	13.08 cfs	7.67 cfs

After comparing the post-developed peak discharges to the allowable peak discharges, we conclude that the proposed retention basin exceeds the Village of Caledonia and WDNR NR 151 design standards. By utilizing the proposed retention basin, grassed swale, and filter strip, the water quality goals have been met reducing the total suspended solids loading by more than 80%, on an average annual basis.

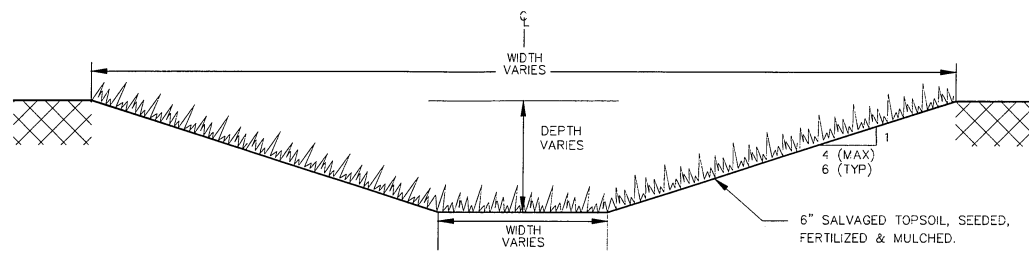


- GENERAL NOTES - SILT FENCE**
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
 - WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/2" x 1 1/8" OF OAK OR HICKORY.
 - CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
A) TWIST METHOD --- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
B) HOOK METHOD --- HOOK THE END OF EACH SILT FENCE LENGTH.

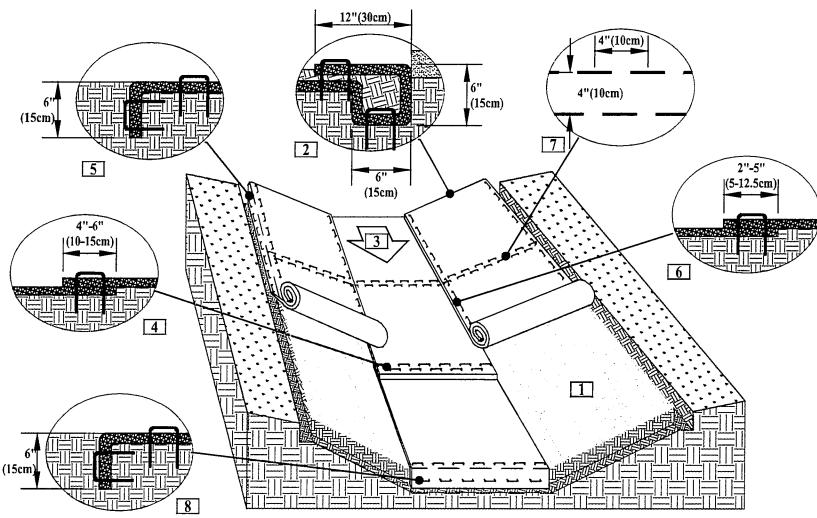
1 TYPICAL SILT FENCE DETAIL
NOT TO SCALE



4 RIP RAP DETAIL
NOT TO SCALE

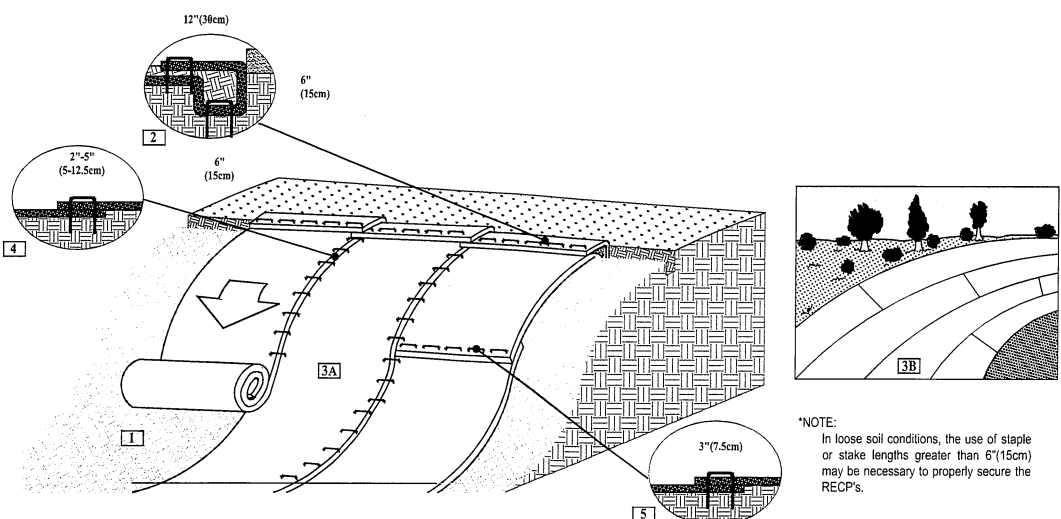


5 DRAINAGE SWALE TYPICAL SECTION
NOT TO SCALE



- CRITICAL POINTS**
- Overlaps and Seams
 - Projected Water Line
 - Channel Bottom/Side Slope Vertices
- NOTES:**
- *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.
 - **In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

2 CHANNEL INSTALLATION OF EROSION MAT
NOT TO SCALE



3 SLOPE INSTALLATION OF EROSION MAT
NOT TO SCALE

- Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
- Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
- Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
- Full length edges of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
- Adjacent RECPs must be overlapped approximately 2'-5" (5-12.5cm) (Depending on RECPs type) and stapled.
- In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9-12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
- The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

Enro - Lot 3 CSM 3254
SEDIMENT BASIN CALCULATIONS
2017.0057.05
7/26/2021
Village of Caledonia, Racine County, WI

TR-55 Data	
Curve Number	CN1 = 63
Time of Concentration	Tc (hrs) = 0.47
Pond Storage	Vol (acre-ft) = 6.049
Peak Flow	Qp (cfs) = 3.51
Surface Area	SA (ft²) = 51051
Soil Class	Class # = 2

Calculated Values	
Qsed (cfs)	3.11
Qsed/Qp	0.885
Vs/Vp	0.103
Vs (acre-ft)	0.6222
Vs (ft³)	27101.30
H (ft)	1.53
A (ft²)	0.8852
d50 (in)	12.74

Iteration 1	
Qsed (cfs)	0.31
SA (ft²)	5150.15
Qsed/Qp	0.089
Vs/Vp	0.572
Vs (acre-ft)	3.4823
Vs (ft³)	150817.43
H (ft)	28.28
Qsed (cfs)	2.33

Optimized Size 1
A (ft²) = FALSE
d50 (in) = FALSE

Iteration 2	
Qsed (cfs)	2.33
SA (ft²)	39251.00
Qsed/Qp	0.663
Vs/Vp	0.226
Vs (acre-ft)	1.3644
Vs (ft³)	59432.38
H (ft)	1.55
Qsed (cfs)	0.54

Optimized Size 2
A (ft²) = 0.0893
d50 (in) = 4.05
OK

Iteration 3	
Qsed (cfs)	0.54
SA (ft²)	8810.83
Qsed/Qp	0.153
Vs/Vp	0.467
Vs (acre-ft)	2.8255
Vs (ft³)	123078.53
H (ft)	13.97
Qsed (cfs)	1.61

Optimized Size 3
A (ft²) = FALSE
d50 (in) = FALSE

Iteration 4	
Qsed (cfs)	1.61
SA (ft²)	26418.58
Qsed/Qp	0.458
Vs/Vp	0.290
Vs (acre-ft)	1.7533
Vs (ft³)	76374.91
H (ft)	2.89
Qsed (cfs)	0.73

Optimized Size 4
A (ft²) = 0.0893
d50 (in) = 4.05
OK



Nielsen Madsen + Barber
CIVIL ENGINEERS AND LAND SURVEYORS
1458 Horizon Blvd. Suite 200, Racine, WI. 53406
Tele: (262)634-5588 Website: www.nmbssc.net

ENRO - LOT 3 CSM 3254
PROJECT SPECIFICATIONS
FOR
DEAN ENRO
VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN

NO.	REVISION	BY	DATE

PROJ. MGR: MRM
DRAFTED: JWR
DATE: 6-15-2021
CHECKED: ALI
DATE: 9-3-2021
2017.0057.05
SHEET
C-4

ISSUE FOR APPROVAL: 9-3-2021



Nielsen Madsen + Barber
 CIVIL ENGINEERS AND LAND SURVEYORS
 1458 Horizon Blvd. Suite 200, Racine, WI. 53406
 Tele: (262)634-5588 Website: www.nmbasc.net

ENRO - LOT 3 CSM 3254
 PROJECT SPECIFICATIONS
 FOR
DEAN ENRO
 VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN

NO.	REVISION	BY	DATE

PROJ. MGR: MRM
 DRAFTED: JWB
 DATE: 6-15-2021
 CHECKED: ALJ
 DATE: 9-3-2021

2017.0057.05
 SHEET
C-5

ISSUE FOR APPROVAL: 9-3-2021

REFERENCES

EROSION CONTROL, EARTHWORK, SITE GRADING AND PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STATE OF WISCONSIN, STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION", CURRENT EDITION, HEREIN REFERRED TO AS THE "STATE SPECIFICATIONS".

SITE GRADING & SUB-GRADE PREPARATION

ALL EXISTING TOPSOIL AND OTHER NON-STRUCTURAL MATERIAL WITHIN THE PROPOSED BUILDING PAD, PAVEMENT SECTIONS AND STRUCTURAL FILL AREAS SHALL BE STRIPPED AND RE-SPREAD ON SITE.

EXCAVATE, GRADE & SHAPE SUBGRADES TO THE LINES AND GRADES SHOWN ON THE PLANS. SEE TYPICAL SECTIONS AND CONSTRUCTION DETAILS FOR PAVEMENT THICKNESS AND MATERIALS.

UPON COMPLETION OF THE GRADING AND COMPACTION OF THE SUBGRADE, A PROOF ROLL SHALL BE CONDUCTED BY THE CONTRACTOR ON ALL SUBGRADES TO RECEIVE DENSE AGGREGATE BASE COURSE. THE CONTRACTOR SHALL PROVIDE A FULLY LOADED QUAD-AXLE TRUCK (18 TON MINIMUM LOAD) TO PERFORM THE PROOF ROLL. CONTRACTOR SHALL COORDINATE THE PROOF ROLL WITH THE OWNER OR HIS REPRESENTATIVES TO ENSURE THEY ARE PRESENT.

AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED, EXCESS, WASTE, STOCKPILED AND SPOIL MATERIAL IN ACCORDANCE WITH SECTION 205.3.12 OF THE "STATE SPECIFICATIONS". THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

SALVAGED TOPSOIL NOTE

SALVAGED TOPSOIL CONSISTS OF THE LOAM, SANDY LOAM, SILTY LOAM, SILTY CLAY LOAM OR CLAY LOAM HUMUS-BEARING SOILS AVAILABLE FROM OVERLYING PORTIONS OF AREAS TO BE OCCUPIED BY THE COMPLETED CONSTRUCTION.

ALL TOPSOIL AND SALVAGED TOPSOIL SHALL BE EXCAVATED AND PROCESSED PER SECTION 625 OF THE "STATE SPECIFICATIONS".

UTILIZE EXCESS TOPSOIL ON THE PROJECT SITE OR DISPOSE OF AS SPECIFIED IN SECTION 205.3.12 OF THE "STATE SPECIFICATIONS".

EROSION & SEDIMENT CONTROL NOTES

THE EROSION AND SEDIMENT CONTROL PROVISIONS DETAILED ON THE DRAWINGS AND SPECIFIED HEREIN ARE THE MINIMUM REQUIREMENTS FOR EROSION CONTROL.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE ANY REVISIONS, ADJUSTMENTS OR PROPOSED ALTERATIONS TO THE CONSTRUCTION SEQUENCING AND/OR EROSION CONTROL PLANS. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND REGULATORY OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BEST MANAGEMENT PRACTICES (BMP'S). ALL SIGNIFICANT DEVIATIONS FROM THE PLANS MUST BE SUBMITTED AND APPROVED BY THE VILLAGE OF CALEDONIA.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, REPAIR AND REMOVAL OF ALL EROSION CONTROL DEVICES REQUIRED FOR THE PROJECT WHICH SHALL BE DONE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND THE VILLAGE OF CALEDONIA ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS. SEE THE VILLAGE OF CALEDONIA AND WDNR EROSION CONTROL PERMITS FOR ADDITIONAL DETAILS OR REQUIREMENTS.

ALL EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES SHALL BE INSPECTED BY THE CONTRACTOR AS REQUIRED IN THE WISCONSIN ADMINISTRATIVE CODE (SPS 360.21) AND MAINTAINED PER SPS 360.22.

INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL CHECK THE EROSION AND SEDIMENT CONTROL PRACTICES FOR MAINTENANCE NEEDS AT ALL THE FOLLOWING INTERVALS UNTIL THE SITE IS STABILIZED:

- A. AT LEAST WEEKLY.
- B. WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. A RAINFALL EVENT SHALL BE CONSIDERED TO BE THE TOTAL AMOUNT OF RAINFALL RECORDED IN ANY CONTINUOUS 24-HOUR PERIOD. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES IMMEDIATELY REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION.

THE CONTRACTOR SHALL MAINTAIN A MONITORING RECORD WHEN THE LAND DISTURBING CONSTRUCTION ACTIVITY INVOLVES ONE OR MORE ACRES. THE MONITORING RECORD SHALL CONTAIN AT LEAST THE FOLLOWING INFORMATION:

- A. THE CONDITION OF THE EROSION AND SEDIMENT CONTROL PRACTICES AT THE INTERVALS SPECIFIED ABOVE.
- B. A DESCRIPTION OF THE MAINTENANCE CONDUCTED TO REPAIR OR REPLACE EROSION AND SEDIMENT CONTROL PRACTICES. EROSION AND SEDIMENT CONTROL INSPECTIONS AND ENFORCEMENT ACTIONS MAY BE CONDUCTED BY WDNR, THE VILLAGE OF CALEDONIA OR THEIR AUTHORIZED AGENTS DURING AND AFTER THE CONSTRUCTION OF THIS PROJECT.

EROSION AND SEDIMENT CONTROL INSPECTIONS AND ENFORCEMENT ACTIONS MAY BE CONDUCTED BY WDNR, THE VILLAGE OF CALEDONIA OR THEIR AUTHORIZED AGENTS DURING AND AFTER THE CONSTRUCTION OF THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE OR LOCAL INSPECTORS AND/OR THE ENGINEER OF RECORD, SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.

ALL SEDIMENT AND EROSION CONTROL DEVICES, INCLUDING PERIMETER EROSION CONTROL MEASURES SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION SHALL BE INSTALLED PRIOR TO COMMENCING EARTH DISTURBING ACTIVITIES. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES UNTIL THE SITE HAS ESTABLISHED A VEGETATIVE COVER AND IS STABILIZED.

INSTALL SILT FENCE PER SECTION 628 OF THE "STATE SPECIFICATIONS" AND WDNR TECHNICAL STANDARD 1056 AT THE LOCATIONS SHOWN ON THE PLAN. ERECT SILT FENCE PRIOR TO STARTING A CONSTRUCTION OPERATION THAT MIGHT CAUSE SEDIMENTATION OR SILTATION AT THE SITE OF THE PROPOSED SILT FENCE. CONTRACTOR SHALL INSTALL SILT FENCING AT DOWN-SLOPE SIDE OF STOCKPILES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REMOVAL OF ALL REQUIRED SILT FENCE MATERIAL.

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING WIND EROSION (DUST) DURING CONSTRUCTION AT HIS/HER EXPENSE (WHEN NECESSARY OR AS REQUIRED BY LOCAL INSPECTORS AND/OR ENGINEER OF RECORD).

EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):

- A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- B. BACKFILL, COMPACT AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
- C. ANY WATER PUMPED FROM PITS, TRENCHES, WELLS OR PONDS SHALL BE DISCHARGED INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 TO BE RELEASED INTO THE STORM SEWER, RECEIVING STREAM OR DRAINAGE DITCH. PUMPED WATER CAN BE TREATED IN FILTER BAGS, STONE FILTERS OR SIMILAR DEVICES. QUALITY OF PUMPED WATER SHALL BE CONTINUOUSLY MONITORED DURING PUMPING OPERATIONS.

CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION(S) WITH THE PROPER AUTHORITIES, PROVIDE NECESSARY FEES AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS. ADDITIONAL CONSTRUCTION ENTRANCES, OTHER THAN SHOWN ON THE PLANS, MUST HAVE PRIOR APPROVAL BY THE VILLAGE OF CALEDONIA.

DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.

ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND THE VILLAGE OF CALEDONIA ORDINANCE.

ALL DISTURBED SLOPES EXCEEDING 5:1 SHALL BE STABILIZED WITH CLASS I, TYPE A EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED (POLYMER) SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED. EROSION MATTING AND/OR NETTING USED ON-SITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052.

PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEP AND/OR SCRAPPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AT THE END OF EACH WORK DAY AND AS REQUESTED BY THE VILLAGE OF CALEDONIA.

EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.

STORM SEWER SPECIFICATIONS

MATERIAL FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE STATE OF WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (SPS) AND VILLAGE OF CALEDONIA SPECIFICATIONS.

STORM SEWER CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN", 6TH EDITION, DECEMBER 22, 2003 WITH ADDENDA NO. 1 AND NO. 2, HEREIN REFERRED TO AS THE "STANDARD SPECIFICATIONS".

CORRUGATED STEEL CULVERT CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 521 OF THE "STATE SPECIFICATIONS" AND THE VILLAGE OF CALEDONIA SPECIFICATIONS.

BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

ANY AND ALL EXISTING SIDEWALKS, CURBS OR PAVEMENTS DISTURBED TO INSTALL UNDERGROUND UTILITIES SHALL BE SAWCUT AT THE NEAREST JOINT AND REPLACED IN KIND PER THE VILLAGE OF CALEDONIA SPECIFICATIONS.

AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED, EXCESS, WASTE, STOCKPILED AND SPOIL MATERIAL IN ACCORDANCE WITH SECTION 205.3.12 OF THE "STATE SPECIFICATIONS". THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

STORM WATER MAINTENANCE PLAN

THE STORM WATER DRAINAGE / WATER QUALITY SYSTEM BEING INSTALLED AS PART OF THIS DEVELOPMENT SHALL BE INSPECTED ON A SEMIANNUAL BASIS.

AS PART OF THE INSPECTION, ANY SILT, SEDIMENT OR DEBRIS BUILT UP IN THE BOTTOM OF THE STRUCTURE SHALL BE REMOVED AND DISPOSED OF.

IF EXCESSIVE AMOUNTS OF SEDIMENT ARE PRESENT, THE MAINTENANCE SCHEDULE SHALL BE ADJUSTED ACCORDINGLY OR A PAVEMENT SWEEPING PROGRAM ESTABLISHED TO MINIMIZE THE SEDIMENT LOADING ENTERING THE STORM WATER DRAINAGE/WATER QUALITY SYSTEM.

- 1. THE PROPERTY OWNER IS ULTIMATELY RESPONSIBLE FOR ENSURING THAT THE STORM WATER LEAVING THE SITE IS AS CLEAN AS PRACTICABLE.

CONSTRUCTION SCHEDULE

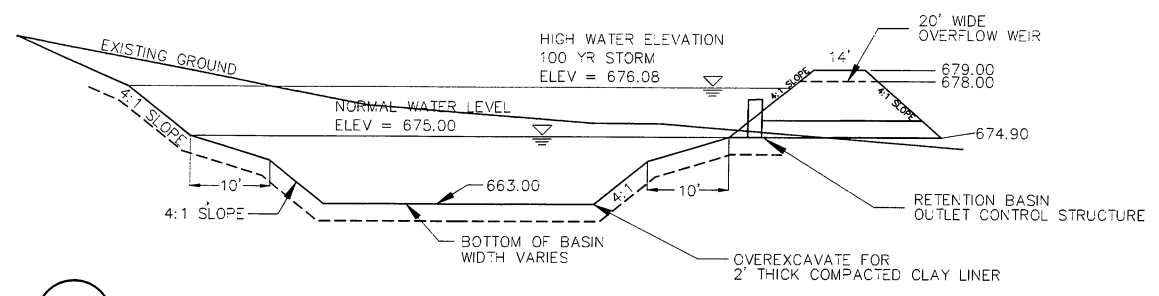
1. OBTAIN PLAN APPROVAL AND ALL APPLICABLE PERMITS.
2. USE EXISTING DRIVEWAY FOR CONSTRUCTION ENTRANCE & EXIT ONTO SEVEN MILE ROAD.
3. HOLD PRE-CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.
4. NOTIFY DNR WATER QUALITY SPECIALIST OF PROJECT START DATE.
5. INSTALL SILT FENCE BARRIER AS SHOWN ON THE GRADING PLAN.
6. INSTALL SEDIMENTATION BASIN/RETENTION BASIN AS SHOWN ON THE GRADING PLAN.
7. INSTALL SEDIMENTATION BASINS OUTLET STRUCTURE AND DOWNSTREAM STABILIZATION.
8. AS-BUILT BASIN VOLUME AND RESTORE SLOPES IMMEDIATELY AFTER CERTIFICATION.
9. STRIP & STOCKPILE TOPSOIL, ROUGH GRADE SITE.
10. FILL AND COMPACT BUILDING PAD AREAS.
11. ROUGH GRADE REMAINDER OF SITE AND PROVIDE PROTECTION TO DRAINAGE STRUCTURES.
12. FINAL GRADE SITE AND RESTORE PER VILLAGE OF CALEDONIA SPECIFICATIONS.

SEDIMENT & EROSION CONTROL PRACTICES

1. SILT FENCE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS. SILT FENCE LOCATIONS WILL BE STAKED IN THE FIELD BY THE ENGINEER.
2. EROSION MAT SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL SWALES AND RETENTION BASIN SIDE SLOPES SHALL RECEIVE EROSION MAT STABILIZATION.
3. SEDIMENT TRAPS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

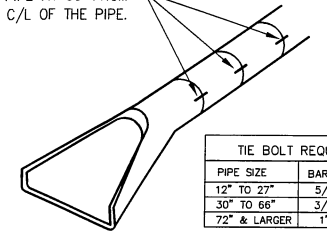
MAINTENANCE PLAN

1. CONTRACTOR SHALL PERFORM EROSION CONTROL INSPECTIONS THROUGHOUT THE DURATION OF THE PROJECT BUILD-OUT
2. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN EVERY 14 DAYS. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

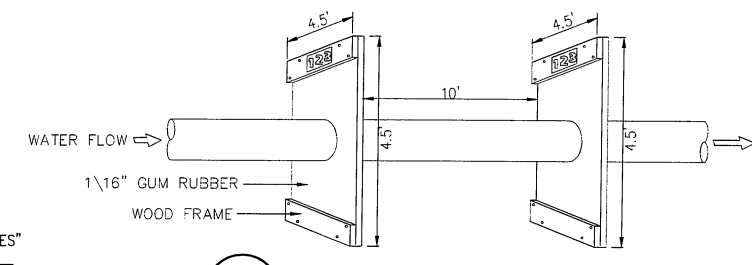


1 TYPICAL RETENTION BASIN CROSS SECTION
 NOT TO SCALE

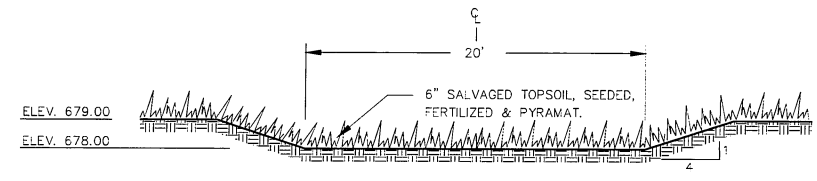
GALVANIZED PIPE JOINT TIES - 2 PER JOINT LOCATED ON EACH SIDE OF THE PIPE AT 60" FROM THE TOP C/L OF THE PIPE.



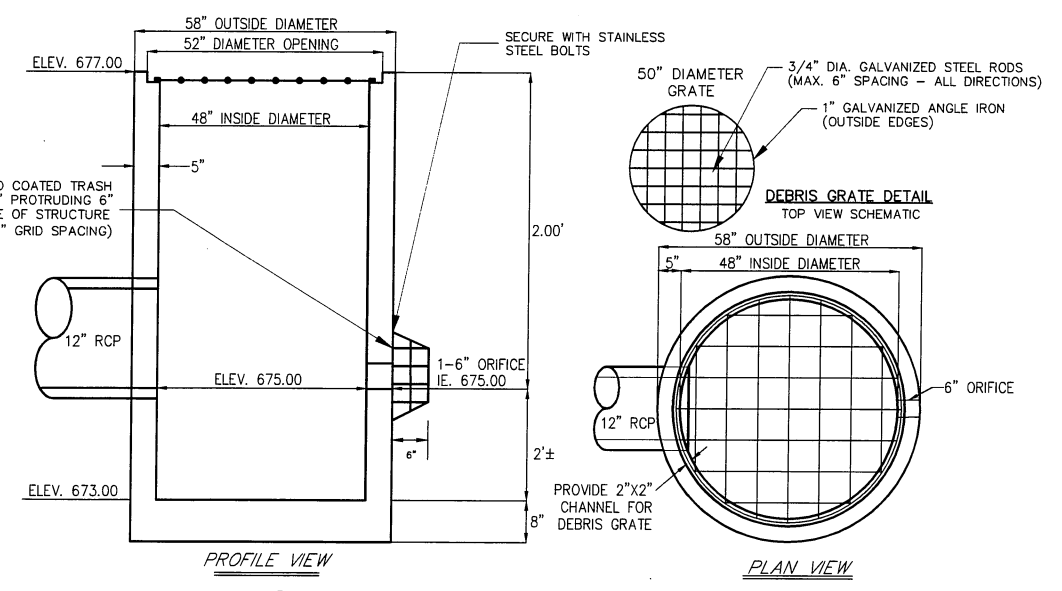
3 REINFORCED CONCRETE PIPE JOINT TIE DETAIL
 NOT TO SCALE



4 ANTI-SEEP COLLAR
 NOT TO SCALE



5 RETENTION BASIN EMERGENCY SPILLWAY
 NOT TO SCALE



2 SEDIMENTATION BASIN OUTLET STRUCTURE
 NOT TO SCALE

Tuesday, November 16, 2021

Nielsen Madsen & Barber S.C.
c/o Joshua Murray P.E.
1458 Horizon Boulevard Suite 200
Racine, WI 53406

RE: Erno Residence – Storm Water Management Plan Review

Dear Mr. Murray:

The Caledonia Utility District has performed a review of the Storm Water Management Plan for the Erno Residence proposed on 7 Mile Road. The Storm Water Management Plan is dated and was submitted September 2, 2021. A review of the plan was held until an invoice issue was resolved. Below is a summary of the review comments.

Storm Water Management Plan

The Storm Water Management Plan has been reviewed and meets the Village Ordinance in regard to Storm Water Quality and Quantity control. The Storm Water Management Plan is hereby approved for the site.

Site Grading Plan (Storm Water Pond Only)

The Site Grading Plan for the Storm Water Pond has also been reviewed and meets the Village Ordinance for Storm Water Pond Construction. The Site Grading Plan for the Storm Water Pond is hereby approved for the site.

General Comments

- The Storm Water Management Plan and Site Grading Plan for the Storm Water Pond will be approved by the Caledonia Utility District at their December 1st meeting. The Owner may proceed with applying for permits and signing all necessary paperwork for the project.
- The Engineer shall submit 2 stamped hard copies, 1 stamped electronic (pdf) copy, and the Storm Water Model file for the Storm Water Management Plan. The Engineer shall also submit 5 stamped hard copies and 1 stamped electronic (pdf) copy submitted of the Site Grading Plan.
- Storm Water Easements/Maintenance Agreements will need to be executed by the Owner/Developer to encompass the Storm Water Pond and Outlet Structure. The Design Engineer shall provide the following: an Exhibit of the property, a Legal Description of

the property, an Exhibit of the Storm Water Easement, a Legal Description of the Storm Water Easement, and a detailed maintenance plan for the facility. (Pond, Outlet, etc.).

- Storm Water Easements for the existing drainage ways will also need to be granted by the Owner as necessary.
- A Financial Guarantee Agreement will need to be executed and appropriate deposit (\$10,000.00) is to be made with the Village to ensure that the Storm Water Pond is constructed, asbuilt, and certified by the Design Engineer.
- The Engineering Department will need to process a Land Disturbance Permit for Disturbance of greater than 1 acre.
- Submit an NOI and any other necessary permits from the Wisconsin DNR.

If there are any questions on this review, please contact me to discuss.

Sincerely.

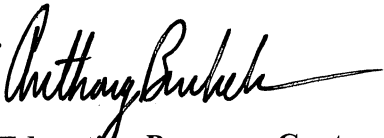


Anthony A. Bunkelman P.E.
Public Services Director
Village of Caledonia

MEMORANDUM

DATE: Monday, November 22, 2021

TO: Caledonia Utility District

FROM: Anthony A. Bunkelman P.E.
Public Services Director 

RE: MS4 Permit Information & Education Program Contract

BACKGROUND INFORMATION

As part of the Village's MS4 Permit, the Village is required to provide Information, Education, and Awareness to its residents and the general public about various Storm Water Issues. To meet these requirements, the Village of Caledonia joined the Southeast Wisconsin Clean Water Network, which is 21 municipalities and UW Parkside, to pool resources and to make this a more regional approach. For more than 12 years, the Southeastern Wisconsin Clean Water Network utilized the Respect our Waters Storm Water Education and Outreach Program. This program was contracted through Root Pike Watershed Initiative Network.

The Root Pike Watershed Initiative Network is still interested in performing the Respect Our Waters Storm Water Education and Outreach Program and has prepared a Professional Services Contract for 2 years to continue to meet these requirements. The cost of these services for 2 years is \$8,910. This is a slight increase from the previous contract, but this is still a low price to pay to ensure that the Village meets the requirement in the MS4 Permit.

I recommend that the Caledonia Utility District move to approve the Professional Services Contract with Root Pike Watershed Initiative Network to continue to perform the Respect Our Waters Storm Water Education and Outreach Program.

RECOMMENDATION

Move to approve the Professional Services Contract with the Root Pike Watershed Initiative Network for the Respect Our Waters Storm Water Education and Outreach Program for 2 years with the not to exceed amount of \$8,910 and authorize the Public Services Director to execute the Contract.



Restoring, Protecting and Sustaining the Root-Pike Basin

November 1, 2021

Anthony A. Bunkelman P.E.
Storm Water District Engineer – Village of Caledonia
5043 Chester Lane
Racine, WI 53402

RE: STORMWATER PERMIT REQUIREMENTS FOR COMMUNICATIONS AND OUTREACH

Dear Tony,

The Root-Pike Watershed Initiative Network is once again pleased to offer our *Respect Our Waters* public outreach services to help the Village of Caledonia meet your DNR stormwater permit requirements. Through the creation of the *Respect Our Waters* program, we have been educating residents of southeastern Wisconsin about stormwater and water quality for more than a decade. Attached you will find a new contract for 2022 and 2023 to continue our cooperative pursuit of cleaner water, less flooding, and a stronger sense of place.

While the DNR requirements, and our services and commitment remain the same, the rates for the two-year agreement have increased 10%. This increase is due to COVID impacts, inflation, and cost of living adjustments. Root-Pike WIN has worked hard to keep costs contained over the last four years. **No increases in the cost of our services and modest salaries were made from 2018 to 2021.** With 20 other municipalities that we serve, Root-Pike WIN looks for every opportunity to make bulk purchases to achieve lower cost per impression for items such as printed mailers and social media posts. We are mission-driven, so we not only do this work at not-for-profit rates, but we do it with a passion for clean water.

In the following pages, you will find a report on the value Root-Pike WIN has provided, ways we meet the DNR's specific requirements, and a slightly revised two-year contract with the adjusted budget. The DNR education and outreach requirements, which remain unchanged, were confirmed with the DNR stormwater specialist, Samantha Katt, on October 21, 2021. **Should you decide NOT to renew your contract with Root-Pike WIN, your municipality will be responsible for meeting these requirements on your own.**

For more than 25 years, we have been part of this community and for that we are thankful. No other 501(c)3 is dedicated to restoring, protecting, and sustaining the rivers in SE Wisconsin with DNR/EPA-approved watershed restoration plans. **The deadline for renewal with Root-Pike WIN is December 15, 2021.** We look forward to continuing this valuable relationship with the Village of Caledonia.

Very Sincerely,

Kristi Heuser

Kristi Heuser
Stormwater Resource Consultant



Restoring, Protecting and Sustaining the Root-Pike Basin

HISTORY

Root-Pike WIN founded the *Respect Our Waters* program in 2009 as a way for municipalities to provide stormwater education and outreach to residents, and municipal leaders and staff in an efficient and cost-effective manner. The *Respect Our Waters* program educates residents through informational mailers, social media, emails and events through a collective of municipalities who share the cost of the program. The program is designed to change homeowner habits related to water quality while realizing economies of scale with regard to the development and management of the program. The Southeastern Wisconsin Clean Water Network (SWCWN) works with municipal leaders and staff to implement best practices for improving the quality of stormwater runoff and reducing flooding. Root-Pike WIN also advances projects and programs in our DNR/EPA-approved Nine Key Element watershed restoration plans, by working with SWCWN members. This public-private partnership is a win/win for our watersheds and SWCWN members as projects in these plans measurably reduce flooding, increase water quality, improve native habitats, and create a stronger sense of place in your municipality. Below is a recap of the 2020-2021 program:

Respect Our Waters

The *Respect Our Waters* program helps us achieve a key Education and Public Outreach recommendation in our Watershed Restoration Plans. With limited opportunities for in-person events in 2020, alternative methods including boosted social media posts, webinars, mailers, emails, and radio appearances were utilized to continue educating the public about the importance of clean water. Last year, our *Respect Our Waters* program reached more than 183,000 residents in Southeastern Wisconsin. Boosted social media posts and a week-long webinar provided over 65,000 individuals, including municipal public works employees, the opportunity to learn about reducing chloride contamination in our water. Leaf and yard waste posts reached 27,000 individuals promoting composting leaves, cleaning up pet waste, and keeping grass clippings out of storm drains. Mailers displaying the importance of planting native species were sent to 80,000 homeowners in the Root-Pike basin. A “Go Native” section was added to the Root-Pike WIN webpage which quickly became the most viewed content on the website. Emails and social media posts promoting healthy streambanks, shorelines, and infiltration solutions reached nearly 11,000 individuals.

Southeastern Wisconsin Clean Water Network

Part of *Respect Our Waters*, the SWCWN is made up of 21 municipalities plus the UW-Parkside. The goal of this program is to bring stormwater runoff pollution awareness and best management practices to these stormwater permit holders’ residents. In 2020, Root-Pike WIN and Wisconsin *Saltwise* began collaborating to provide education and events for members of the SWCWN. Root-Pike WIN will continue to promote Fortin Consulting’s *Smart Salting* training sessions virtually and in-person and seek out timely and meaningful training sessions for the network to attend in the upcoming years. Meetings of the SWCWN will occur on a quarterly basis, either in-person or virtually, to discuss solutions to keep our water clean.

General Education and Outreach

Root-Pike WIN is always considering creative, innovative, and engaging ways to connect the public to their watershed. One example is working one-on-one with residents to help them increase stormwater infiltration in their own landscapes. Another is monthly class offerings called *Watershed Warriors*. The goal of these classes is to build an environmentally literate cadre of residents who have a strong grasp of the problems our watersheds face and how they can potentially address these difficulties in their own landscapes, their neighborhoods, and their places of worship.



Restoring, Protecting and Sustaining the Root-Pike Basin

MEETING PERMIT REQUIREMENTS

Root-Pike WIN has been working with municipalities to meet storm water discharge permit requirements with a turnkey communications programs funded by a cooperative made up of each municipality and the Department of Natural Resources. The following excerpts that pertain to our services are found in the State of Wisconsin's N.R. 216 storm water discharge permit requirements. Root-Pike WIN confirmed with the DNR in October 2021 that these excerpts have not changed for this next contract period:

"NR 216.07 Permit requirements. The department shall issue permits using the information provided by the applicant and other pertinent information when developing permit conditions. Permits shall, at a minimum, require all of the following:

(1) Public education and outreach.

(a) A public education and outreach program to distribute materials to the public or conduct equivalent public outreach to increase awareness of storm water impacts on waters of the state. The program shall at a minimum be designed to achieve all of the following:

- 1. Promote detection and elimination of illicit discharges or water quality impacts associated with discharges from municipal separate storm sewer systems.*
- 2. Inform and educate the public to facilitate the proper management of materials and encourage the public to change their behavior that may cause storm water pollution from sources including automobiles, pets, household hazardous waste and household practices.*
- 3. Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides.*
- 4. Promote the management of stream banks and shorelines by riparian landowners to minimize erosion, and restore and enhance the ecological values of the waterway.*
- 5. Promote infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks.*

(b) A program that includes elements to achieve all of the following:

- 1. Inform and educate those responsible for the design, installation or maintenance of construction site erosion control and storm water management practices on how to design, install and maintain the practices.*
- 2. Target businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences such as lawn care companies and restaurants on methods of storm water pollution prevention.*
- 3. Promote environmentally sensitive land development designs by developers and designers.*

Note: The public education and outreach program should be tailored, using a mix of locally appropriate strategies to educate the general public and target specific audiences likely to have significant storm water impacts."



Restoring, Protecting and Sustaining the Root-Pike Basin

Contract for Professional Services

Information & Education Program for Meeting the Department of Natural Resources Storm Water Permit Requirements

January 1, 2022 to December 31, 2023

Provided by: Root-Pike Watershed Initiative Network



Restoring, Protecting and Sustaining the Root-Pike Basin

PART I: SERVICES

A. PROGRAM Description

1. The service contract is dated January 1, 2022, and is between Root-Pike Watershed Initiative Network, Inc. (hereinafter referred to as the “Contractor”) and the **Village of Caledonia** (hereinafter referred to as the “Client”). The Contractor will provide services to coordinate and execute a two-year public outreach, education and public participation project for the Client on behalf of Root River, Pike River, Pike Creek, Oak Creek, Wind Point and the Upper Des Plaines watersheds in fulfilling the Information and Education requirements of their State of Wisconsin issued stormwater discharge permits (Wis. Admin. Code, Chapter NR 216). The PROGRAM will continue to be known as *Respect Our Waters* (hereinafter referred to as the “PROGRAM”).
2. The PROGRAM has the following objectives during the term of this contract, per the NR 216 requirements:
 - NR 216.07(1)(b)1. Inform and educate those responsible for the design, installation or maintenance of construction site erosion control and storm water management practices on how to design, install and maintain the practices.
 - NR 216.07(1)(a)2. Inform and educate the public to facilitate the proper management of materials and encourage the public to change their behavior that may cause storm water pollution from sources including automobiles, pets, household hazardous waste and household practices;
 - NR 216.07(1)(a)3. Promote beneficial onsite reuse of leaves and grass clippings and proper use of lawn and garden fertilizers and pesticides;
 - NR 216.07(1)(a)4. Promote the management of stream banks and shorelines by riparian landowners to minimize erosion, and restore and enhance the ecological values of the waterway;
 - NR 216.07(1)(a)5. Promote infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks;
3. The PROGRAM may address the following requirements should the opportunity arise:
 - NR 216.07(1)(a)1. Promote detection and elimination of illicit discharges or water quality impacts associated with discharges from municipal separate storm sewer systems;
 - NR 216.07(1)(b)2. Target businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences such as lawn care companies and restaurants on methods of storm water pollution prevention;
 - NR 216.07(1)(b)3. Promote environmentally sensitive land development designs by developers and designers.



Restoring, Protecting and Sustaining the Root-Pike Basin

B. Scope

Target Audience: Based on the results from the 2010 and 2016 household surveys administered under this PROGRAM, the Contractor will target the ‘homeowner families with children’ demographic who live in the geographic area served by the Client and perform their own yard work, wash their cars, and walk their dogs. The Contractor will also target specific sub-watershed units if they are defined in one of our EPA/DNR-approved Nine Key Element Watershed Restoration Plans as a pollutant “hotspot”.

Message: The Contractor, and originator of the Respect Our Waters PROGRAM, will continue to utilize creative, innovate, and engaging ways to connect the public to their watershed. Outreach efforts will focus on educating individuals on managing pet waste, yard waste, lawn chemicals, leaky car chemicals, rain barrels, rain gardens, and illicit dumping into storm sewers to keep our waters clean. All other outreach activities, as outlined in the scope of work below, will use similar messaging to meet objectives described in section A.3. of this contract. The Contractor will also use the data, conclusions and recommendations in our three, EPA/DNR-approved Nine Key Element Watershed Restoration Plans for education and outreach to a variety of audiences with targeted messaging.

1. Community Outreach Events

Goal: Participate in at least one event in your municipality to promulgate the *Respect Our Waters* campaign.

Deliverable: The Contractor will participate in a minimum of one community event over the course of the 2022-2023 contract period for the Respect Our Waters campaign. The Contractor will engage event attendees using a stormwater runoff model demonstration, engaging displays, children’s games and activities, and numerous free giveaway publications and other items. The Contractor will provide all the necessary components to complete this part of the program by coordinating and staffing the events, supplying the materials and equipment already in the Contractors possession. This also covers travel costs and insurance. The events satisfy:

- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions



Restoring, Protecting and Sustaining the Root-Pike Basin

2. Storm Water “Hot Spots” Targeting

Goal: Reduce pollution numbers for total suspended solids, chlorides phosphorus, *E. coli* and nitrogen via targeted outreach to residents in a specific Nine Element Plan-identified pollutant hotspot area in each member municipality. Reduce pollution numbers for phosphorus, *E. coli* and nitrogen.

Deliverable: The Contractor will raise awareness of hotspot issues and provide solutions to residents using targeted outreach in the form of mailings and in-person contact. The Contractor will use the EPA/DNR-approved Nine Key Element Watershed Restoration Plans as the default guide for outreach and solutions. The Contractor will adapt the messaging as necessary where a Nine Key Element plan does not exist or cover a specific runoff pollutant issue. The Contractor will work to bring awareness and action to issue and may work with The Client and/or landowner to resolve the issue as part of physical project under a separate contract/project. This outreach satisfies:

- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions

3. Public Awareness Communications

Goal: Promote solutions that address the critical watershed issues in local print and online publications.

Deliverable: The Contractor will create story pitches regarding the PROGRAM that get published in print and online to audiences using more targeted local media (newspapers, community magazines, and municipal sites, etc.). This activity satisfies:

- NR 216.07(1)(b)1. Educate contractors and selectively monitor construction erosion control
- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions

4. Social Media Communications

Goal: Bring awareness to urban watershed issues and solutions for homeowners through ongoing mass communications.

Deliverable: The Contractor will develop content, create website updates and implement social media posts. This activity satisfies:

- NR 216.07(1)(b)1. Educate contractors and selectively monitor construction erosion control
- NR 216.07(1)(a)2. Inform and educate the public about runoff pollutant issues/solutions
- NR 216.07(1)(a)3. Promote beneficial onsite reuse of lawn waste
- NR 216.07(1)(a)4. Promote healthy stream banks and shorelines
- NR 216.07(1)(a)5. Promote landowner infiltration solutions



Restoring, Protecting and Sustaining the Root-Pike Basin

5. Construction Site Erosion Prevention

Goal: Communicate the importance of erosion control practices to local construction companies by working with field staff and leadership.

Deliverable: The contractor will identify and communicate with construction leaders about the importance of erosion control during rain events. This activity satisfies:

- NR 216.07(1)(b)1. Educate contractors and selectively monitor construction sites



Restoring, Protecting and Sustaining the Root-Pike Basin

C. PROGRAM Budget*

The scope and activities of the *Respect Our Waters* program may change depending on conditions (such as COVID and/or inflation), needs and opportunities, but the overall cost of the program will not.

	Caledonia
INCOME	
2020-21 Local Share	\$8,100
2022-23 Budget	\$ 8,910
ACTIVITIES	
1) Outreach Events (Public & SWCWN)	\$ 2,673
2) Target Nine Element Plan Hotspot	\$ 2,673
3) News Story Pitches	\$ 891
4) Outreach Media	\$ 891
5) Construction Communications	\$ 891
Subtotal Program Costs	\$ 8,019
Fiscal Agent Fees	\$ 891
Total Expenses	\$ 8,910



Restoring, Protecting and Sustaining the Root-Pike Basin

D. Assumptions & Conditions

This agreement is subject to the following terms & conditions:

1. The Client agrees to make an annual payment to the Contractor to fund the PROGRAM in the dollar amount described in the Proposal and this Contract and agree to make payments no later than February 1, 2022 and February 1, 2023 unless other arrangements are made with the Client.
2. The Contractor agrees to be the fiscal agent for the duration (two years) of the PROGRAM, commencing January 1, 2022 and ending December 31, 2023 and will receive financial remuneration (built into PROGRAM budget) for its services to cover costs incurred for program management, accounting, operations, insurance and legal needs.
3. The Contractor will complete the tasks listed in the Scope between January 1, 2022 and December 31, 2023.
4. The Contractor will submit an annual report to the Client on or before January 31, 2022 and January 31, 2023.
5. Should the DNR change the education and outreach requirements of your storm water discharge permit before the term of this contract expires, The Contractor will adjust the scope, schedule and costs to meet the new requirements, and provide The Client a revised contract for approval of the new PROGRAM.

E. Team

The Contractor will provide the following personnel to provide services to the Client. If any of these persons become unavailable, the Contractor will notify and secure approval from the Client prior to replacement of such persons. Any person replacing team members shall have similar or superior qualifications. The following personnel will provide services for this PROGRAM:

- Kristi Heuser, SWCWN Coordinator, Root-Pike Watershed Initiative Network (Primary Contact)
- Laura Buska, Program Manager, Root-Pike Watershed Initiative Network
- Dave Giordano, Executive Director, Root-Pike Watershed Initiative Network
- Nan Calvert, Educator, Root-Pike Watershed Initiative Network
- Brittini Sharp, Accounting, Root-Pike Watershed Initiative Network

F. Decisions

The Contractor will follow the approved budget and scope of services with input from the Client to implement the



Restoring, Protecting and Sustaining the Root-Pike Basin

PROGRAM. Most content can be developed and implemented by the Contractor, but final content and reach decisions will be made by the Client should a dispute arise.



Restoring, Protecting and Sustaining the Root-Pike Basin

PART II: COMPENSATION

A. Compensation

Compensation to the Contractor for services rendered January 1, 2022 through December 31, 2023 (two years) by employees working on the PROGRAM in accordance with PART I, services of the Agreement will be for a not-to-exceed fee of **\$8,910** to implement the PROGRAM over the two-year term of the contract. This fee includes salary and reimbursable items including mileage, copies, printing, postage, materials, subcontractors, promotional items and other reimbursable expenses in the PROGRAM budget directly related to the implementation of the PROGRAM, as well as financial remuneration for the Client.

B. Billing and Payment

1. The Contractor will provide a yearly accounting report of all PROGRAM expenses during the term of the contract from January 1, 2022 to December 31, 2023. The Contractor can provide standard reports from QuickBooks as needed by the Client.
2. The Contractor shall maintain accounting records of its costs in accordance with generally accepted accounting practices. Access to such records will be provided during normal business hours with reasonable notice during the term of this Agreement and for 3 years after completion.



Restoring, Protecting and Sustaining the Root-Pike Basin

PART III: CONTRACTOR STANDARD TERMS AND CONDITIONS

STANDARD OF CARE. Services shall be performed in accordance with the standard of professional practice ordinarily exercised by the applicable profession at the time and within the locality where the services are performed. No warranty or guarantee, express or implied is provided, including warranties or guarantees contained in any uniform commercial code. The Contractor, upon notice from the Client, will re-perform any non-conforming services without additional compensation. If deficiencies are not corrected in a timely manner, the Client may cause the same to be corrected and deduct costs incurred by reason of such deficiency from the Contractor's compensation.

CHANGE OF SCOPE. The scope of Services set forth in this Agreement is based on the facts known at the time of execution of this Agreement, including, if applicable, information supplied by the Contractor and the Client. The Contractor will promptly notify the Client if any perceived changes of scope in writing and the parties shall negotiate modifications to the Agreement with input from the Wisconsin Department of Natural Resources. No payment for services beyond those described in the original scope will be authorized without a written modification to this Agreement.

DELAYS. If events beyond the control of the Contractor, including, but not limited to, fire, flood, explosion, riot, strike, war, process shutdown, act of God or the public enemy, and act or regulation of any government agency, result in delay to any schedule established in this Agreement, such schedule shall be extended for a period equal to the delay.

TERMINATION/SUSPENSION. Either party may terminate this Agreement upon 30 days written notice to the other party in the event of substantial failure by the other party to perform in accordance with its obligations under this Agreement. If the Contractor fails to correct or cause to be corrected such failure to perform within ten (10) days of written notice by the Client, the Contractor shall be deemed to be in default of this Agreement. The Contractor will return all unused and uncommitted funds within 30 days.

REUSE OF INSTRUMENTS OF SERVICE. All reports, publications, artwork, electronic files, and other documents prepared by the Contractor as instruments of service shall remain the property of the Contractor. The Contractor shall retain all common law, statutory and other reserved rights, including the copyright thereto. Reuse of any instruments of service including electronic media, for any purpose other than that for which such documents or deliverables were originally prepared, or alteration of such documents or deliverables without written authorization or adaptation by the Contractor for the intended purposes, shall be at the Contractor's sole risk.

VENDOR COSTS. Any opinion of vendor costs prepared by the Contractor is supplied for the general guidance only. Since the Contractor has no control over bidding or market conditions, the Contractor cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to the Contractor or its clients.



Restoring, Protecting and Sustaining the Root-Pike Basin

SAFETY. The Contractor shall establish and maintain PROGRAMs and procedures for the safety of its employees. The Contractor specifically disclaims an authority or responsibility for general job safety and safety of persons other than the Contractor’s employees.

MODIFICATION. This Agreement, upon execution by both parties hereto, can be modified only by written instrument signed by both parties.

INSURANCE. The Contractor shall maintain insurance coverage as described herein:

Comprehensive General Liability	\$1,000,000	occurrence/aggregate
Automobile Liability	\$1,000,000	occurrence/aggregate
Worker’s Compensation/Employers Liability	Statutory	
Professional Liability	\$1,000,000	occurrence/aggregate
Umbrella Liability	\$1,000,000	occurrence/aggregate

INDEMNIFICATION AND HOLD HARMLESS. To the fullest extent permitted by law, the Contractor shall indemnify and hold the Client harmless from and against any and all claims of any party or parties that make a demand, bring a claim, or institute a legal action allegedly arising out of the Agreement and/or the PROGRAM and the Contractor further agrees to indemnify and hold the Client harmless for any loss, liability, and damages sustained by the Contractor, its agents, employees, and representatives by reason of injury or death to persons or damage to tangible property. This provision extends to all attorney’s fees, costs, interest and resulting settlement amounts and/or judgments.

ASSIGNMENT. The rights and obligations of this Agreement cannot be assigned by either party without written permission of the other party.

NO WAIVER. No waiver by either party of any default by the other party in the performance of any particular section of this Agreement shall invalidate another section of the Agreement or operate as a waiver of any future default, whether like or different in character.

SEVERABILITY. The various terms, provisions and covenants herein contained shall be deemed to be separate and severable, and the invalidity or unenforceability of any of them shall not affect or impair the validity or enforceability of the remainder.

INDEPENDENT CONTRACTOR STATUS. The Contractor has “Independent Contractor Status” and will maintain complete control of and responsibility for its employees, agents, methods, and operations.



Restoring, Protecting and Sustaining the Root-Pike Basin

DISPUTE RESOLUTION. In the event of a dispute arising out of or relating to this Agreement or the services to be rendered hereunder, the Contractor and the Client agree to attempt to resolve such disputes in the following manner. First, the parties agree to attempt to resolve such disputes through direct negotiations between the appropriate representatives of each party. Second, if such negotiations are not fully successful, the parties agree to attempt to resolve any remaining dispute by formal nonbinding mediation conducted in accordance with rules and procedures to be agreed upon by the parties. Third, if such negotiations fail, either party may pursue an action in the circuit courts of the State of Wisconsin.



Restoring, Protecting and Sustaining the Root-Pike Basin

PART IV: AGREEMENT

This Agreement is by and between the Contractor:

Root-Pike Watershed Initiative Network

4116 12th St.

Kenosha, WI 53144

262-883-4018 / dave@rootpikewin.org

and

The Client

Village of Caledonia

Who agree as follows:

Root-Pike Watershed Initiative Network hereby agrees to perform the services set forth in Part I/Services for the compensation set forth in Part II/compensation. Root-Pike Watershed Initiative Network shall be authorized to commence the Services upon execution of this Agreement and written authorization to proceed from the **Village of Caledonia**. The **Village of Caledonia** and the Root-Pike Watershed Initiative Network agree that this signature page, together with Parts I-III, constitute the entire Agreement between them relating to the PROGRAM.

Approved for

Root-Pike Watershed Initiative Network

Approved for

Village of Caledonia

Signature: _____

Signature: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____