

FOX WEST REGIONAL SEWERAGE COMMISSION

1965 W. Butte Des Morts Beach Rd.
Neenah, WI 54956

Phone (920) 739-7921
Fax (920) 739-1343
gcmwsc@new.rr.com



April 25, 2024

Town Clerk
Town of Grand Chute
1900 W Grand Chute Blvd
Grand Chute, WI 54913

Village Clerk
Village of Greenville
P O Box 60
Greenville, WI 54942

Village Clerk
Village of Fox Crossing
2000 Municipal Drive
Neenah, WI 54956

Town Clerk
Town of Clayton
8348 County Road T
Larsen, WI 54947

Ms. Ellen Skerke
Town of Neenah
1655 County Road A
Neenah, WI 54956

The Post Crescent
P O Box 59
Appleton, WI 54912

Mr. Andrew Rossmeissl
Herrling Clark Law Firm
800 North Lynndale Drive
Appleton, WI 54914

PUBLIC NOTICE

Public Notice is hereby given that there will be a **REGULAR MEETING** OF THE FOX WEST REGIONAL SEWERAGE COMMISSION on Wednesday, May 1, 2024 at 4:00 P.M. The Regular Meeting will be held at the McMahon Associates headquarters at 1445 McMahon Drive in Neenah. The meeting will also be held via teleconference.

Respectfully submitted,

FOX WEST REGIONAL S.C.

A handwritten signature in blue ink that reads "Melissa Starr". The signature is written in a cursive, flowing style.

Melissa Starr
Accounting Clerk

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AGENDA For REGULAR MEETING Wednesday May 1, 2024 4:00 P.M.

The meeting will also be held via teleconference.

CALL TO ORDER OF REGULAR MEETING

ROLL CALL

APPROVAL OF AGENDA

SECRETARY'S REPORT:

- Approve Minutes of Regular Meeting (04/03/2024)
-

TREASURER'S REPORT:

- Approve Voucher List
- Discussion / Review of Bank & Budget Statements

PRESIDENT'S REPORT:

- Discussion/Action
- Selection of Commission Officers (Ord-Con Section 203(b)):
Vice-President Secretary

MANAGER'S REPORT:

- Review/Approve Monthly Operational Summary
-

ENGINEER'S REPORT:

- Fine Screen Engineering Update

OLD BUSINESS:

-

NEW BUSINESS:

- Discuss/Act on Sewer Extension Request – Finale (Greenville)

Design Criteria:

Flow: 0.027 MGD Avg Acres: 13.12

Flow: 0.007 MGD Peak Population Served: 67.5

BOD: 11.48 lbs./day

ADJOURNMENT:

FOX WEST REGIONAL SEWERAGE COMMISSION

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REGULAR MEETING MINUTES

April 3, 2024

Notice of the Regular Meeting was distributed by Melissa Starr to all Commissioners; the Clerks of the Town of Grand Chute, Village of Fox Crossing, Village of Greenville, Town of Clayton, & Town of Neenah; the Post Crescent; and posted on the bulletin board at the Regional Office. The Regular Meeting was called to order by President Dale Youngquist at 4:00 pm.

PRESENT:

Beth English

Mark Strobel

Mike Van Dyke (via Teams)

Jason Van Eperen

Ron Wolff Jr. (via Teams)

Dale Youngquist

Greg Ziegler

Melissa Starr (MCO)

EXCUSED: Brandon Kaufman (MCO)

Guests: Keith Curran (Greenville); Amber Drewieske (CLA); Richard Downey (Grand Chute); Hayle Lepak (CLA); Paul Much (MCO); Chad Olsen (McMahon)

APPROVAL OF AGENDA:

A motion was made by Greg Ziegler to approve the Agenda as presented, second by Beth English. *Motion Carried.*

SECRETARY'S REPORT:

Minutes

A motion was made by Greg Ziegler to approve the Minutes of the Regular Meeting held on March 6, 2024; second by Beth English. *Motion Carried.*

TREASURER'S REPORT:

Voucher List

President Youngquist asked if there were any questions or concerns with the Voucher List. Hearing none, a motion was made by Mike Van Dyke to approve the Voucher List as presented; second by Greg Ziegler. *Motion Carried.*

Bank & Budget Statements

President Youngquist asked if there were any questions regarding the bank and budget statements; hearing none, a motion was made by Mike Van Dyke to approve the Bank & Budget Statements; second by Greg Ziegler. *Motion Carried.*

PRESIDENT'S REPORT:

2023 Audit Report

Amber Drewieske and Hayle Lepak (CLA) discussed the independent audit report prepared by Clifton Larson Allen LLP. In their opinion the report presents fairly, in all material respects, the financial position of the Commission on December 31, 2023. This is a clean, unmodified opinion. They further referenced and discussed the Commission Net Position (on pages 9-10), cash flows (pages 12-13), and Independent auditor's report on internal controls (page 36). There are two deficiencies noted, which are typical in small utilities. Amber and Hayle also discussed the Management Communications report and further referenced the audit findings (page 1), disclosures (page 2), operation and maintenance fund operations (page 4) and the Management Representation letter. After discussion, Greg Ziegler made a motion to accept the 2023 Financial Audit as presented, seconded by Beth English. *Motion Carried.*

MANAGER'S REPORT:

Operational Summary

Paul Much (MCO), manager of the Neenah-Menasha WWTP, was available to answer questions regarding the Operational Summary in Manager Kaufman's absence. Commissioner Ziegler congratulated Manager Kaufman on continuing to meet all DNR permit limits, and asked how the tour of the Heath of the Valley WWTP went. Mr. Much stated that Manager Kaufman said it went well. A question was raised regarding ATAD rag plugging, and Mr. Much explained the new screens should help with the problem. After discussion a motion was made by Greg Ziegler to approve the Operational Summary; second by Beth English. *Motion Carried.*

ENGINEER'S REPORT:

Finescreen/Blower/Generator Project Update

Chad Olsen shared that he and Manager Kaufman will be heading to Sheboygan to look at some more options. He stated they plan to stick with center flow band screens, and blowers with Turbo and updated controls.

ADJOURNMENT

A motion was made by Greg Ziegler to adjourn the meeting, second by Beth English. *Motion Carried.* Meeting adjourned at 4:20 pm.

ATTEST

Greg Ziegler, Secretary

Melissa Starr, Accounting Clerk

**FOX WEST REGIONAL
SEWERAGE COMMISSION**

For Approval on: 05/01/2024

PREAUTHORIZED APRIL PAYABLES

CHECK NO	DATE		Amount
38291-38292	04/02/24	Plant Payroll - Net (#24-07)	\$ 3,388.18
WDC040224	04/02/24	Wisconsin Def Comp (#24-07)	\$ 50.00
	04/02/24	FSA WITHHOLDING (#24-07)	\$ 41.66
38322-38323	04/16/24	Plant Payroll - Net (#24-08)	\$ 3,380.75
WDC041624	04/16/24	Wisconsin Def Comp (#24-08)	\$ 50.00
	04/16/24	FSA WITHHOLDING (#24-08)	\$ 41.66
38324	04/16/24	WE Energies (\$3,986.12 Heat/\$52,927.05 Electric)	\$ 56,913.17
38325-38326	04/30/24	Plant Payroll - Net (#24-09)	\$ 3,664.89
WDC043024	04/30/24	Wisconsin Def Comp (#24-09)	\$ 50.00
38327	04/30/24	Town of Grand Chute (Life & Dental Insurance, FSA fee)	\$ 278.92
38328	04/30/24	Town of Grand Chute (FSA Claim)	\$ 217.75
38329	04/30/24	Spectrum/Charter Communications (\$114.99 Internet/\$113.83 Telephone)	\$ 228.82

WGH042424	04/24/24	Dept of Employee Trust (MAY HEALTH INVOICE)	\$ 4,700.64
EFTPS043024	04/30/24	Federal Payroll Taxes (APRIL Federal Tax Withholding)	\$ 3,521.72
WDR043024	04/30/24	Wisconsin Dept Revenue (APRIL State Tax Withholding)	\$ 608.39
WRS043024	04/30/24	Dept of Employee Trust (MARCH PENSION)	\$ 1,756.35
			<u>\$78,892.90</u>

FOX WEST REGIONAL
SEWERAGE COMMISSION -

MONTHLY PAYABLES

VOUCHER LIST - 05/01/2024

PAGE 2

CHECK NO	DATE		Amount
38330-38336	05/01/24	Commissioner's Wages (Net) Commission Wages (April Mtg)	\$1,239.67
38337	05/01/24	Aquachem Ferric Chloride	\$21,719.33
38338	05/01/24	Badger Labs Lab Testing	\$2,558.20
38339	05/01/24	CLA 2023 Financial Audit	\$9,660.00
38340	05/01/24	Crane Engineering SNDR Jet Pump #2 Install, ATAD Foam Pumps	\$19,422.00
38341	05/01/24	Cummins Generator PM	\$783.51
38342	05/01/24	Environmental Consulting WI - WET Test	\$2,000.00
38343	05/01/24	Ferguson Waterworks Catch Basin	\$206.17
38344	05/01/24	Gannett Wisconsin Media Public NON	\$39.13
38345	05/01/24	GFL Grit Haul & Recycling Services	\$1,718.67
38346	05/01/24	Grainger Electrical Tape, Pipe Thread, Disposable Gloves, Bushings, Couplings, etc.	\$757.78
38347	05/01/24	Heartland Business Solutions Palo Alto Subscription, Support, Gateway, Misc. Cabling	\$968.18
38348	05/01/24	Johnson Controls Service Bldg AHU-1 Fan	\$472.00
38349	05/01/24	MCO Contract Operations	\$60,135.25
38350	05/01/24	NCL Lab Supplies	\$717.32
38351	05/01/24	Nile Xpedite Solutions Shipping Coolers for WET Test	\$1,155.00
38352	05/01/24	Rhyme Office Supplies	\$96.13
38353	05/01/24	Splendid Cleaning Services Professional Building Maintenance	\$379.00
38354	05/01/24	Thermal Process Systems SNDR 2 Jet Header Clean Out and Wrap	\$18,000.00
38355	05/01/24	UniFirst Employee Uniforms	\$248.30

\$142,275.64

CHECK NO	DATE	Amount
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EQUIPMENT REPLACEMENT

38356	05/01/24	Johnson Controls	\$7,880.00
		Replace Unit Heater in Grit Building	
Total Equipment Replacement			\$7,880.00

DEPRECIATION EXPENSE

38357	05/01/24	McMahon	\$5,940.00
		WWTF Improvements Project	
Total Depreciation			\$5,940.00

Preauthorized APRIL Expenses	\$78,892.90
Monthly Payables	\$142,275.64
Equipment Replacement Expense	\$7,880.00
Depreciation Expense	\$5,940.00
	\$234,988.54

Disbursements Not Approved:

Approved by Commission:

Mark Strobel

Date

2024 INTEREST EARNINGS
March 31, 2024

gl #s	1002	1034	1036	1050	2186b	2131	2121	2152c	2141	2152a	TOTAL
	Operations				Future	Replacement	Bond Redemption		Depreciation		
	Checking	WH Deposit Winnebago	WH Deposit Geenan	Savings	C.D. Matures 9/12/24	MONEY MARKET	MONEY MARKET	LGIP	MONEY MARKET	LGIP	
	0.05%	0.01%	0.01%	1.00%	5.19%	5.25%	5.46%	5.40%	5.45%	5.40%	
	ANB	ANB	ANB	COMM1st	COMM1st	ANB	ANB	LGIP	ANB	LGIP	
Jan	28.63	-	-	-	5,661.18	2,965.81	3,448.03	4,284.49	722.47	7,501.14	\$24,611.75
Feb	15.15	-	-	-	5,318.73	2,892.49	3,624.07	4,022.73	1,050.99	7,042.84	\$23,967.00
Mar	13.24	0.01	0.02	1.79	5,708.42	3,070.57	4,297.15	4,325.97	1,195.66	7,573.75	\$26,186.58
Apr											\$0.00
May											\$0.00
Jun											\$0.00
Jul											\$0.00
Aug											\$0.00
Sep											\$0.00
Oct											\$0.00
Nov											\$0.00
Dec											\$0.00
TOTALS:	\$57.02	\$0.01	\$0.02	\$1.79	\$16,688.33	\$8,928.87	\$11,369.25	\$12,633.19	\$2,969.12	\$22,117.73	\$74,765.33
	\$58.84				\$16,688.33	\$8,928.87	\$24,002.44		\$25,086.85		
acct #'s	-17	-87	-87	-5400	-4959	-92	-23	-1	-11	-2	
acct \$'s	\$193,381.94	\$506.83	\$502.15	\$723.39	\$1,332,406.00	\$734,366.30	\$1,032,514.02	\$950,949.41	\$265,818.04	\$1,664,887.65	\$6,176,055.73

ACCOUNT LISTING
3/31/2024

American Nat'l Bank	Operations - Checking	\$193,381.94	0.05%
American Nat'l Bank	Operations - WH Deposit	\$506.83	0.01%
American Nat'l Bank	Operations - WH Deposit	\$502.15	0.01%
Community 1st CU	Operations - Savings	\$723.39	1.00%
Community 1st CU	Future Capital - CD	\$1,332,406.00	5.19%
American Nat'l Bank	Replacement - Money Market	\$734,366.30	5.25%
American Nat'l Bank	Bond Redemption - Money Market	\$1,032,514.02	5.46%
LGIP	Bond Redemption - LGIP	\$950,949.41	5.40%
American Nat'l Bank	Depreciation - Money Market	\$265,818.04	5.45%
LGIP	Depreciation - LGIP	\$1,664,887.65	5.40%
Total Funds:		\$6,176,055.73	

FOX WEST REGIONAL SEWERAGE COMMISSION
BANK STATEMENT
CASH RECEIPTS & DISBURSEMENTS FOR THE MONTH OF MARCH 2024

BANK STATEMENT-3/31/24
PAGE 2

FUTURE CAPITAL ACCOUNT

Beginning Balance	\$1,326,697.58	
Interest Earned @ 5.19% / COM 1st - CD	5,708.42	
TOTAL FUTURE CAPITAL		\$1,332,406.00

BOND REDEMPTION ACCOUNTS

Beginning Balance - Money Market Account	\$940,798.18
Interest Earned @ 5.46% / ANB	4,297.15
Transfer from Checking	87,418.69
Transfer to STATE WIS - CWF loan payment	-
Wire Transfer Fee	-
Total Bond Redemption MM Acct Balance	\$1,032,514.02

Beginning Balance - LGIP Account	\$946,623.44
Interest Earned @ 5.40% / LGIP	\$4,325.97
Deposit	-
Withdrawal (STATE WIS - CWF loan payment)	-
Total Bond Redemption LGIP Acct Balance	\$950,949.41

TOTAL BOND REDEMPTION	\$1,983,463.43
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DEPRECIATION ACCOUNTS

Beginning Balance - Money Market Account	\$414,622.38
Interest Earned @ 5.45% / ANB	1,195.66
Transfer from Checking	-
Transfer to Checking	(150,000.00)
Total Depreciation Acct Balance	\$265,818.04

Beginning Balance - LGIP Account	\$1,657,313.90
Interest Earned @ 5.40%	7,573.75
Total Depreciation LGIP Acct Balance	\$1,664,887.65

TOTAL DEPRECIATION ACCOUNT	\$1,930,705.69
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SUMMARY

ANB CHECKING ACCOUNT	\$193,381.94
COMM FIRST CU SAVINGS ACCOUNT	\$723.39
EQUIPMENT REPLACEMENT ACCOUNT	734,366.30
FUTURE CAPITAL CD ACCOUNT	\$1,332,406.00
BOND REDEMPTION ACCOUNTS	1,983,463.43
DEPRECIATION ACCOUNTS	1,930,705.69
PETTY CASH & WASTEHAULER DEPOSITS	\$1,208.98
TOTAL FUNDS AVAILABLE	\$6,176,255.73

**FOX WEST REGIONAL SEWERAGE COMMISSION
BANK STATEMENT
CASH RECEIPTS & DISBURSEMENTS FOR THE MONTH OF MARCH 2024**

CHECKING ACCOUNT

Beginning Balance		\$68,880.08
Receipts:		
User Fees Received	\$336,792.23	
Vactor-Waste Fees Received	-	
Lab/MISC Fees Received	419.00	
Septic Haulers Fees	15,040.65	
Interest Earned @ 0.05% / ANB	13.24	
Transfers from:		
Equipment Replacement	9,775.80	
Bond Redemption	-	
Depreciation	150,000.00	
Total Receipts:	<u>\$512,040.92</u>	
Total Available		\$580,921.00
Disbursements:		
Commissioners Wages (net)	\$1,239.74	
Plant Personnel Wages (net)	21,528.79	
Plant Personnel Wages (net)	3,285.88	
Plant Personnel Wages (net)	-	
Gen. Operating Expense	\$225,528.49	
Equipment Replacement	9,775.80	
Depreciation	-	
Transfers To:		
Misc ledger adjustment	-	
Equipment Replacement	39,171.00	
Bond Redemption	87,418.69	
Depreciation		
Total Disbursements:	<u>\$387,948.39</u>	
TOTAL CHECKING - Per General Ledger		<u>\$192,972.61</u>
	checks outstanding:	\$409.33
actual checkbook balance at month-end- Per Bank Statement:		\$193,381.94

COMM FIRST CU SAVINGS ACCOUNT

Beginning Balance	\$721.60	
Interest Earned @ 1.00% / COM 1st	1.79	
Total Savings Acct Balance		<u>\$723.39</u>

EQUIPMENT REPLACEMENT ACCOUNT

Beginning Balance	\$701,900.53	
Interest Earned @ 5.25% / ANB	3,070.57	
Transfer from Checking	39,171.00	
Transfer to Checking	<u>\$ (9,775.80)</u>	
Total Equip Replacement Acct Balance		<u>\$734,366.30</u>

Fox West Regional Sewerage Commission
Balance Sheet Summary with Previous Year Comparison
As of March 31, 2024

	MAR 31, 24	MAR 31, 23	\$ Change	% Change
ASSETS				
<u>Current Assets</u>				
<u>Cash & Investments</u>				
Checking-American Nat'l	212,018.45	540,912.00	-328,893.55	-60.8%
Cash-Waste hauler's Deposits	1,008.98	1,008.86	0.12	0.01%
Petty Cash	200.00	200.00	0.00	0.0%
Savings-Comm 1st	20.75	0.00	20.75	100.0%
Bond Redemption - Money Market & CD's	1,992,089.83	1,954,211.46	37,878.37	1.94%
Equipment Replacement - Money Market & CD's	731,267.70	493,582.77	237,684.93	48.16%
Depreciation Fund - Money Market & CD's	1,906,834.69	1,770,091.96	136,742.73	7.73%
Future Capital (CD)	1,332,406.00	1,281,820.36	50,585.64	3.95%
Total Cash & Investments	6,175,846.40	6,041,827.41	134,018.99	2.22%
<u>Other Current Assets</u>				
Accounts Receivable	562,551.87	385,192.50	177,359.37	46.04%
Undeposited Funds	0.00	0.00	0.00	0.0%
Inventory Mat'l & Supplies	12,521.00	12,521.00	0.00	0.0%
WRS Pension - Assets & Deferred Outflows	231,202.00	348,954.00	-117,752.00	-33.74%
Total Other Current Assets	806,274.87	746,667.50	59,607.37	7.98%
Total Current Assets	6,982,121.27	6,788,494.91	193,626.36	2.85%
<u>Fixed Assets</u>				
Land/Easements/Land Improvements	590,977.48	590,977.48	0.00	-29.72%
Interceptor Mains & Access	1,648,042.84	1,648,042.84	0.00	0.0%
Structures, Equipment & Improvements	45,392,903.85	45,325,996.33	66,907.52	0.25%
Accumulated Depreciation	-26,893,434.80	-25,028,459.62	-1,864,975.18	7.23%
Total Fixed Assets	20,738,489.37	22,536,557.03	-1,798,067.66	-7.98%
TOTAL ASSETS	27,720,610.64	29,325,051.94	-1,604,441.30	-5.47%
LIABILITIES & EQUITY				
<u>Liabilities</u>				
<u>Current Liabilities</u>				
Accounts Payable	78,176.51	61,982.87	16,193.64	0.0%
Payroll Liabilities	44,692.93	43,429.63	1,263.30	4.54%
Pension Liability	185,861.00	285,734.00	-99,873.00	-34.9%
Customer Deposits	1,011.42	467,074.59	-33,719.03	-11.04%
Accrued Interest Expense & Other Liab	64,467.70	1,011.42	0.00	-55.65%
Total Current Liabilities	374,209.56	859,232.51	-116,135.09	-56.45%
<u>Long Term Liabilities</u>				
CWF-INTERCEPTOR	0.00	57,790.80	-57,790.80	-100.0%
CWF-2009 Upgrade	5,812,034.16	6,694,534.85	-882,500.69	-13.18%
Total Long Term Liabilities	5,812,034.16	6,752,325.65	-940,291.49	-13.93%
Total Liabilities	6,186,243.72	7,611,558.16	-1,056,426.58	-12.65%
<u>Equity</u>				
Contributions in Aid-Grants/Agencies	4,951,269.00	4,951,269.00	0.00	0.00%
Contributions in Aid-Communities	695,930.55	695,930.55	0.00	0.00%
Contributions in Aid-Others	147,494.00	147,494.00	0.00	0.00%
Accum Amort of Contributed Capital	-3,933,248.32	-3,933,248.32	0.00	0.00%
Retained Earnings-Unappropriated	19,248,406.34	19,697,193.84	-448,787.50	-2.28%
Restricted Net Position-Pension	145,937.00	145,937.00	0.00	0.00%
Net Income	278,578.35	401,075.63	-122,497.28	-44.00%
Total Equity	21,534,366.92	22,105,651.70	-571,284.78	-2.58%
TOTAL LIABILITIES & EQUITY	27,720,610.64	29,717,209.86	-1,627,711.36	-5.08%

Fox West Regional Sewerage Commission
Income Statement with Previous Year Comparison
March 31, 2024

		<u>March 24</u>	<u>March 23</u>	<u>Jan - Mar 24</u>	<u>Jan - Mar 23</u>	<u>Y-T-D \$ Change</u>
<u>Operations & Maintenance Income</u>						
	Grand Chute	141,621.04	106,164.37	326,175.54	254,381.38	71,794.16
	Clayton	4,561.24	4,769.48	11,727.43	11,392.90	334.53
	Fox Crossing	43,833.84	84,351.23	134,865.27	193,838.47	-58,973.20
	Greenville	38,045.99	43,189.61	113,603.09	110,031.93	3,571.16
	Total Operation/Maint Income	\$228,062.11	\$238,474.69	\$586,371.33	\$569,644.68	\$16,726.65
<u>Operations & Maintenance Expenses</u>						
Wages & Benefits	Commissioner Pay	1,418.15	1,222.70	4,254.45	3,668.10	586.35
	Employee Pay	44,455.20	15,074.80	78,145.48	47,103.65	31,041.83
	Employee Benefits	9,653.20	7,557.50	26,132.92	22,669.01	3,463.91
Utilities	Electric	52,340.83	48,816.06	154,242.74	151,425.32	2,817.42
	Natural Gas & Water	4,565.74	7,014.69	19,827.83	27,114.17	-7,286.34
Chemicals	Ferric Chloride	12,304.97	21,745.57	75,256.08	65,978.68	9,277.40
	Polymer	0.00	0.00	10,340.00	0.00	10,340.00
	Other Chemicals	0.00	0.00	0.00	0.00	0.00
General Operations	Contract Operations	55,393.94	47,035.80	177,349.27	141,107.40	36,241.87
	Rugs, Linens, Uniforms	418.01	562.28	1,436.39	1,467.77	-31.38
	Grit & Refuse Hauling	1,463.41	1,322.56	6,208.42	4,462.23	1,746.19
	Other Operations	537.25	589.02	1,910.89	2,506.45	-595.56
Sludge	Sludge Disposal	0.00	0.00	0.00	0.00	0.00
	Other Sludge Exp.	0.00	0.00	0.00	0.00	0.00
Plant Maint	Maintenance of Operations	1,870.00	4,042.68	14,704.00	7,400.95	7,303.05
	Other Plant Maintenance	4,445.01	5,797.70	39,142.74	27,791.03	11,351.71
Lab	Lab Operations	2,281.54	2,096.86	8,844.82	7,848.58	996.24
	WPDES Compliance Monitor	0.00	0.00	0.00	0.00	0.00
Administrative & General Expenses	Insurance & Legal	0.00	5,259.00	53,315.00	56,557.00	-3,242.00
	Annual Audit	0.00	9,425.00	0.00	9,425.00	-9,425.00
	Office, Postage, Phone, etc	648.85	2,004.21	4,841.63	4,324.63	517.00
	DNR Environment Fees	0.00	0.00	0.00	0.00	0.00
	Other General/Admin	2,389.73	2,350.00	2,832.88	2,377.75	455.13
	Total Operating Expenses	\$194,185.83	\$181,916.43	\$678,785.54	\$583,227.72	\$95,557.82
	Gross Income (Loss)	\$33,876.28	\$56,558.26	(\$92,414.21)	(\$13,583.04)	(\$78,831.17)
<u>Other Operations Income</u>						
Other Income	Interest Income	26,186.58	8,810.77	74,765.33	27,016.37	47,748.96
	Waste Hauler Income	15,519.56	17,656.70	43,125.90	47,618.41	-4,492.51
	Lab Testing/Vac-Waste/Misc	2,110.00	2,263.00	14,303.64	11,914.41	2,389.23
	Other Operations Income	\$43,816.14	\$28,730.47	\$132,194.87	\$86,549.19	\$45,645.68
	Operating Fund Income (Loss)	\$77,692.42	\$85,288.73	\$39,780.66	\$72,966.15	(\$33,185.49)
<u>Replacement, Debt, Depreciation</u>						
Repl.	Repl. Income from Users	39,171.00	34,337.74	117,513.00	103,013.04	14,499.96
	Repl. Fund Expenses	21,029.28	0.00	71,639.28	6,832.00	64,807.28
Debt	Debt Service from Users	87,418.68	92,327.37	262,256.04	276,981.48	-14,725.44
	Debt Service Interest	0.00	0.00	0.00	0.00	0.00
Depr.	Depr. Income from Users	0.00	0.00	0.00	0.00	0.00
	Depr. Fund Expenses	5,940.00	0.00	20,790.00	0.00	20,790.00
	Income (Loss) for Replacement, Debt, Depreciation	\$99,620.40	\$126,665.11	\$287,339.76	\$373,162.52	(\$85,822.76)
Reconciliation Discrepancies / Audit GASB / Plant Depreciation		0.00	0.00	0.00	0.00	0.00
	Net Income (Loss)	\$177,312.82	\$211,953.84	\$327,120.42	\$446,128.67	(\$119,008.25)

**2024 BUDGET STATEMENT
FOX WEST REGIONAL
WASTEWATER TREATMENT PLANT**

Budget Through 3/31/2024

INCOME SOURCE	100.00% '24 BUDGET	MONTHLY 1/12 TOTAL	8.33% JAN	16.67% FEB	25.00% MAR	33.33% APR	41.67% MAY	50.00% JUNE	YTD TOTAL	BDGT THRU MAR (3/31/24)	(OVER)/UNDER BUDGET	% OF BUDGET
USER CHARGES:												
OPERATION AND MAINT	\$2,135,572.00	\$177,964.33	\$155,050.69	\$203,258.53	\$228,062.11				\$586,371.33	\$533,893.00	(\$52,478.33)	27.46%
EQUIPMENT REPLACEMENT	470,052.00	39,171.00	39,171.00	\$39,171.00	\$39,171.00				117,513.00	\$117,513.00	\$0.00	25.00%
BOND REDEMPTION	1,049,024.00	87,418.67	87,418.67	87,418.69	87,418.68				262,256.04	\$262,256.00	(\$0.04)	25.00%
DEPRECIATION	0.00	0.00	0.00	0.00	0.00				0.00	\$0.00	\$0.00	0.00%
TOTAL BUDGETED INCOME	\$3,654,648.00	\$304,554.00	\$281,640.36	\$329,848.22	\$354,651.79	\$0.00	\$0.00	\$0.00	\$966,140.37	\$913,662.00	(\$52,478.37)	26.44%
CONTINGENCY FUNDING:												
INTEREST INCOME	\$161,820.00	\$13,485.00	\$24,611.75	\$23,967.00	\$26,186.58				\$74,765.33	\$40,455.00	(\$34,310.33)	46.20%
WASTEHAULER INCOME	202,500.00	16,875.00	13,192.69	14,413.65	15,519.56				43,125.90	\$50,625.00	\$7,499.10	21.30%
LAB & MISC. INCOME	34,285.00	2,857.08	10,634.64	1,559.00	2,110.00				14,303.64	\$8,571.25	(\$5,732.39)	41.72%
TOTAL CONT FUNDING	\$398,605.00	\$33,217.08	\$48,439.08	\$39,939.65	\$43,816.14	\$0.00	\$0.00	\$0.00	\$132,194.87	\$99,651.25	(\$32,543.62)	33.16%
BUDGETED SURPLUS	\$0.00	\$0.00										
TOTAL BUDGET	\$4,053,253.00	\$337,771.08	\$330,079.44	\$369,787.87	\$398,467.93	\$0.00	\$0.00	\$0.00	\$1,098,335.24	\$1,013,313.25	(\$85,021.99)	27.10%
2024 BUDGETED O&M EXPENSE												
WAGES & BENEFITS:												
COMMISSIONERS	\$16,236.00	\$1,353.00	\$1,418.15	\$1,418.15	\$1,418.15				\$4,254.45	\$4,059.00	(\$195.45)	26.20%
PLANT PERSONNEL	171,957.00	14,329.75	18,094.08	15,596.20	44,455.20				78,145.48	\$42,989.25	(\$35,156.23)	45.44%
EMPLOYEE BENEFITS	87,592.00	7,299.33	8,022.62	8,457.10	9,653.20				26,132.92	\$21,898.00	(\$4,234.92)	29.83%
UTILITIES:												
ELECTRIC POWER	671,135.00	55,927.92	50,365.81	51,536.10	52,340.83				154,242.74	\$167,783.75	\$13,541.01	22.98%
OTHER UTILITIES	59,360.00	4,946.67	3,762.07	11,500.02	4,565.74				19,827.83	\$14,840.00	(\$4,987.83)	33.40%
CHEMICALS:												
FERRIC CHLORIDE	290,000.00	24,166.67	37,900.32	25,050.79	12,304.97				75,256.08	\$72,500.00	(\$2,756.08)	25.95%
OTHER CHEMICALS	40,500.00	3,375.00	0.00	10,340.00	0.00				10,340.00	\$10,125.00	(\$215.00)	25.53%
GENERAL OPERATIONS:												
CONTRACT OPERATIONS	724,384.00	60,365.33	47,035.80	74,919.53	55,393.94				177,349.27	\$181,096.00	\$3,746.73	24.48%
OTHER OPERATING COSTS	46,315.00	3,859.58	4,100.69	3,036.34	2,418.67				9,555.70	\$11,578.75	\$2,023.05	20.63%
SLUDGE HANDLING:												
SLUDGE DISPOSAL	19,000.00	1,583.33	0.00	0.00	0.00				0.00	\$4,750.00	\$4,750.00	0.00%
OTHER SLUDGE EXPENSES	0.00	0.00	0.00	0.00	0.00				0.00	\$0.00	\$0.00	#DIV/0!
PLANT MAINTENANCE:												
PLANT MAINTENANCE/REPAIR	226,750.00	18,895.83	14,833.33	32,698.40	6,315.01				53,846.74	\$56,687.50	\$2,840.76	23.75%
LABORATORY:												
LAB OPERATIONS	10,555.00	879.58	3,271.97	3,291.31	2,281.54				8,844.82	\$2,638.75	(\$6,206.07)	83.80%
WPDES-COMPL. MONITORING	17,100.00	1,425.00	0.00	0.00	0.00				0.00	\$4,275.00	\$4,275.00	0.00%
ADMINISTRATIVE/GENERAL:												
INSURANCE/LEGAL	75,000.00	6,250.00	48,962.00	4,353.00	0.00				53,315.00	\$18,750.00	(\$34,565.00)	71.09%
ANNUAL AUDITING SERVICES	9,635.00	802.92	0.00	0.00	0.00				0.00	\$2,408.75	\$2,408.75	0.00%
OFFICE, POSTAGE, PHONE, ETC	12,550.00	1,045.83	574.73	3,618.05	648.85				4,841.63	\$3,137.50	(\$1,704.13)	38.58%
DNR ENVIRONMENTAL FEES	34,600.00	2,883.33	0.00	0.00	0.00				0.00	\$8,650.00	\$8,650.00	0.00%
GENERAL ADMIN. EXPENSE	21,508.00	1,792.33	218.15	225.00	2,389.73				2,832.88	\$5,377.00	\$2,544.12	13.17%
TOTAL O&M EXPENSES	\$2,534,177.00	\$211,181.42	\$238,559.72	\$246,039.99	\$194,185.83	\$0.00	\$0.00	\$0.00	\$678,785.54	\$633,544.25	(\$45,241.29)	26.79%
CONTINGENCY APPLIED	\$235,400.00	\$19,616.67	\$27,378.30	\$34,868.57	(\$16,995.59)	(\$211,181.42)	(\$211,181.42)	(\$211,181.42)	(\$1,855,391.48)	\$58,850.00	\$1,914,241.46	-788.19%

FOX WEST REGIONAL SEWERAGE COMMISSION

1965 W. Butte Des Morts Beach Rd.
Neenah, WI 54956



Phone (920) 739-7921
Fax (920) 739-1343
gcmwsc@new.rr.com

Monthly Operational Summary

April, 2024

PLANT OPERATIONS

1. **PLANT PERFORMANCE** – The facility met all DNR permit limits in April.
2. **POWER OUTAGE** – A weather related power outage interrupted the operation of the plant on 4/3/24. A number of different pieces of equipment shut down and needed to be reset. Staff responded to the after-hours alarms and reset what equipment they could. The majority of the plant experienced a bump in the power supply but did not lose power, however the ATAD digester building was without power until later in the day on 4/4/24. Once power had been restored, we discovered that an ethernet switch which is used to communicate from the ATAD building to the main instrument panel had failed. Faith Technologies was able to transfer the ethernet cables to a different switch which re-established communications. Faith Technologies has advised us that these particular ethernet switches are obsolete, and we should explore options to replace all of them throughout the plant. Faith will be providing a quote to perform this work.
3. **SNDR#2 DIGESTER**– We are still waiting on replacement parts for the jet pump. We will also be replacing the pump suction valve and spool piece prior to the tank being returned to service.
4. **PHOSPHORUS CHEMICAL SWITCH**– On 4/16/24 we transitioned our phosphorus removal chemical from ferric chloride to ferric sulfate. We are anticipating that the feed rate for the new chemical would remain the same. The ferric sulfate product was approximately \$2,000 less per delivery which would amount to a \$48,000 savings over the course of a year. Both storage tanks needed to be cleaned out prior to making the switch. The tanks had not been cleaned in over twenty years, and we found a large amount of thick material had accumulated on the bottom of the tank when we opened the hatch. Fox West purchased a small air diaphragm pump (\$1,346.03) that we were able to use to clean both tanks prior to making the switch.
5. **SECONDARY CLARIFIER WEIR CLEANING**– We began hosing the weirs of the final clarifiers on 4/16/24. Algae continues to grow on these tanks every summer, and it must be physically removed using the high pressure water hoses. We perform this routine maintenance multiple times each year. Each washing takes approximately two weeks to complete.
6. **BEAVER DAM FACILITY TOUR**– Crane Engineering set up a meeting for me to tour the Beaver Dam Wastewater Treatment Facility. The purpose of this visit was to look at their Sultzert turbo blowers. The blowers have been in place for a few years, and the operators at the plant recommended them. They appear to be a good fit for the Fox West plant as well.

PRETREATMENT

1. **GULFSTREAM-** We met with Gulfstream at their new hanger on 4/12/24 to discuss their sampling procedure for the new outfall. Gulfstream is currently not discharging any waste to the sanitary sewer. All of this waste is being hauled offsite until testing has been completed which shows that the waste would meet pretreatment standards.
2. **PIERCE MANUFACTURING-** We have had discussions with Pierce concerning some foam products that they would like to trial on their fire suppression systems. We have rejected the initial product that they had proposed using.
3. **DENTAL INSPECTIONS-** We are continuing to inspect dental facilities in the Fox West service area. These inspections are part of the pretreatment mercury reduction program.

EQUIP OPERATIONS

1. **HSI BLOWER #2-** Atlas Copco installed the new rubber boot on the blower discharge. This repair eliminated the inlet temperature alarm which was preventing the blower from starting. The blower has been returned to service and has been running without issue.
2. **ATAD TRANSFER PUMP #2** We are still waiting for the pump to be rebuilt. Crane Engineering removed pump #2 on 3/20/24. The pump was showing severe wear, and Crane is recommending that it be rebuilt with CD4 stainless steel components (\$18,382.00). Pump #1 was rebuilt last year with CD 4 components and it has held up well so far.
3. **HACH PHOSPHATE ANALYZER-** Faith Technologies was onsite multiple days to work on the integration of the phosphate analyzer. This programming work will allow the analyzer to provide phosphorus readings back to the main control panel. These readings can then be used to automatically pace the chemical feed pumps so that we are always dosing the proper amount of chemical for phosphorus removal. This unit should reduce our chemical consumption while allowing us to remain in compliance with our discharge limits. Hach will be onsite on 4/25/24 to begin start-up of the analyzer.
4. **SNDR #2 JET PUMP-** Crane Engineering was onsite on 3/20/24 to remove the rotating element from the jet pump for inspection. They found that the casing cover was worn and the mechanical seal needed to be repaired (\$8,786.00). We are still waiting for pump to be rebuilt.
5. **SNDR #2 JET PUMP SUCTION VALVE-** The suction valve on SNDR #2 jet pump was not holding and the valve needed to be rebuilt. Replacement parts were ordered, but when the valve was disassembled we found that the valve body and seat were severely pitted and the valve could not be repaired. Crane has provided a quote (\$18,502.00) to replace the 18" plug valve with an 18" stainless steel gate valve and spool piece. This valve will be more resistant to corrosion than the original. The spool piece has arrived, but we are still waiting on the valve. The rebuilt parts have been returned to Ferguson Waterworks. The re-stocking fee has been reduced from 40% to 20%.
6. **SERVICE BUILDING POTABLE WATER LINE** The potable water line that feeds the service building, thickener building, and ATAD digester building cracked. The crack was located on a fitting above ground in the service building garage. A new section of 3" PVC pipe, two couplings, and two unions were needed to make the repairs (\$357.55).

**For DNR Sewer Checklist
Finale**

Proposed Service Area (acres)

Immediate 13.12 Ultimate

27 Number of Lots

Population to be served

Density Population

Per Capita Sewage Contribution (gallons per day)

Average 100 Peak 400

Design Flows (gallons per day)

Average Peak

Design Flows (cubic feet per second)

Average Peak

Design BOD

lbs/day

Design TSS

lbs/day

Design TP

lbs/day

Notice: In accordance with s. NR. 108.04(2)(a), Wis. Adm. Code, this form is authorized to accompany final plans and specifications for any reviewable sanitary sewer project that is submitted to the Department of Natural Resources (Department) pursuant to s. 281.41, Wis. Stats and s. NR 108.03, Wis. Adm. Code. Completion of this form is required by the Department for any sanitary sewer plan submittal to evaluate conformance with requirements in chs. NR 108 and NR 110, Wis. Adm. Code. This form is not intended to be used for interceptor projects. Please submit a facility plan report for interceptor projects. If you question if a sewer should be submitted using this form, please contact DNR wastewater plan review staff.

All necessary information must be provided on this form. Failure to complete this form correctly may result in rejection of this form by the Department. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law (ss. 19.31 - 19.39, Wis. Stats.).

Please type or clearly print your answers to all questions.

1. General Information

A. Municipality Name ☐ City ☐ Town ☒ Village ☐ Sanitary District ☐ Utility District

Greenville

B. Project Name (as indicated on the plans):

Finale

C. Wastewater Treatment Facility Name:

Fox West

D. Sewage Collection System Owner Name (after installation):

Village of Greenville

E. Responsible Project Inspector (List name and/or title, if known):

2. Submittal Requirements:

- A. Is a CD, flash drive, or other storage device containing PDF files of the final plans and/or specifications included with this plan submittal? ☒ Yes ☐ No
- B. Are the submitted paper and electronic plans and/or specifications signed and sealed by a registered Wisconsin professional engineer? ☒ Yes ☐ No
- C. Is the submitted paper set of plans in half size format (11" x 17")? ☒ Yes ☐ No
- D. Are the construction plans and/or specifications submitted in conformance with ch. NR 108 and ss. NR 110.06, 110.07, and 110.10(3), Wis. Adm. Code? ☒ Yes ☐ No
- E. If this project is intended to be funded through the Clean Water Fund Program, is an abbreviated engineering report included with this submittal, or was one previously submitted? ☐ Yes ☐ No ☒ N/A

3. Sewer Service Area

A. Is a map of the sewer service area that shows the location of the proposed sewer attached to this plan submittal? ☒ Yes ☐ No

B. Does the project only involve replacement/rehabilitation construction of existing sanitary sewer where the sewer service area has not changed? ☐ Yes ☒ No

i. If no, please provide the basis of the design for the area and population to be served by the proposed sewer:

Ultimate design year:	2023	Population Density per acre:	5.14
Total Population Served:	68	Immediate Area Served:	13.12 acres
		Ultimate Area Served:	13.12 acres

4. Erosion Control

- A. Does the municipality have an erosion control ordinance? ☒ Yes ☐ No
- i. If yes, will compliance with the ordinance be required for this project? ☒ Yes ☐ No
- B. Do the plan sheets show the erosion control provisions? ☒ Yes ☐ No
- C. Do the specifications require that the erosion control measures be in place before construction begins and maintained during construction? ☒ Yes ☐ No
- D. Will the project disturb one or more acres of land? ☒ Yes ☐ No
- i. If yes, has an electronic Notice of Intent been submitted to the DNR for the land disturbing construction activities for coverage under the construction site storm water runoff general permit in accordance with Chapter NR 216, Wis. Adm. Code (<https://dnr.wi.gov/topic/stormwater/construction/forms.html>)? ☒ Yes ☐ No
- ii. Construction Site ID#, if known: _____

5. Water Diversion

- A. Will the proposed sewer project result in a diversion of water from a water supply system that uses surface water from the Great Lakes System to the Mississippi River Basin? ☐ Yes ☒ No

6. Sanitary Sewer Overflow Structures or Bypasses

- A. Are there any existing sanitary sewer overflow structures or bypasses or known bypass locations that function in the sewerage system? If you answered "Yes" to this question, please answer the sub-questions under A. ☐ Yes ☒ No
- i. Number of sanitary sewer overflow structures or bypasses: _____
- ii. Location of sanitary sewer overflow structures or bypasses: _____

7. Wetlands and Waterways

- A. Will the proposed project involve construction in, on, over, or under a water of the state (i.e. any dredging of the waterway; placement of footings or pilings in the waterway; placement of piping under or on the bed of the waterway; installation of any piping on the shoreline or in the waterway; or placement of any material that could be a barrier for boating or other recreational navigation)? If you answered "Yes" to this question, please visit the DNR Waterways and Wetland Permit website (<http://dnr.wi.gov/topic/Waterways/>) to determine what waterway permits may be needed for your project and answer the sub-questions under A. ☐ Yes ☒ No
- i. Does the project require a waterway permit? ☐ Yes ☐ No
- ii. Is a copy of the DNR permit(s) coverage letter(s) attached to this plan submittal? ☐ Yes ☐ No ☐ N/A
- Note:** The DNR wastewater program cannot issue a sanitary sewer plan approval until the DNR waterway permit(s) has been issued
- B. Have you reviewed the DNR Surface Water Data Viewer (SWDV) web site (<https://dnr.wi.gov/topic/surfacewater/swdv/>) and conducted an on-site field inspection to verify whether the proposed sanitary sewer construction will impact any wetland areas (attach map from the SWDV)? Applicants for sanitary sewer projects must review the DNR SWDV website and conduct an on-site field inspection to determine whether the proposed project will impact any wetland areas prior to completing and submitting this form. ☒ Yes ☐ No

(Note: "Impact" means any construction-related disturbance resulting in any temporary or permanent change in the characteristics of the wetland including direct excavation within the wetland area, temporary or permanent soil placement / removal within the wetland area, drainage modifications within or adjacent to the wetland area that may cause hydrological changes to the wetland, etc.)

Sanitary Sewer Submittal

Finale

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C. Based on the review in part B, will the proposed project impact any wetland areas? **If you answered "Yes" to this question, please visit the DNR Waterways and Wetland Permit website (<http://dnr.wi.gov/topic/Waterways/>) to determine what wetland disturbance permits may be needed for your project and answer the sub-questions under C.**

☐ Yes ☒ No

i. Are you eligible for a municipal wetland disturbance permit or does the project require a wetland individual permit?

☐ Yes ☐ No

ii. Is a copy of the DNR and/or USACE wetland disturbance permit(s) coverage letter(s) attached to this plan submittal?

☐ Yes ☐ No ☐ N/A

Note: The DNR wastewater program cannot issue a sanitary sewer plan approval until the DNR and/or USACE wetland disturbance permit(s) have been issued.

D. Do the plans show the location/boundaries of any impacted or nearby waterways and/or wetlands?

☒ Yes ☐ No

8. Floodplain

A. Will any manhole tops and sewers be installed within any floodplains or areas that have the potential to be flooded by street runoff? **If you answered "Yes" this question, please answer the sub-questions under A.** Applicants should determine if construction of any manholes or sewers will be within the floodplain or areas that have the potential to be flooded by street runoff. (**Note:** "Floodplain" means that land which has been or may be covered by flood water during the regional flood. The floodplain includes the floodway, flood fringe, shallow depth flooding, flood storage and coastal floodplain areas. "Regional flood" means a flood determined to be representative of large floods known to have occurred in Wisconsin or which may be expected to occur on a particular lake, river or stream once in every 100 years.)

☐ Yes ☒ No

i. Are the regional (100-year) flood elevation and floodplain contours indicated on the plans?

☐ Yes ☐ No

ii. Will solid watertight manhole covers be installed to prevent flooding?

☐ Yes ☐ No

iii. Does the project conform to the requirements in ch. NR 116, Wis. Adm. Code?

☐ Yes ☐ No

9. Pumping and Dewatering

A. Is there potential for construction trenches or pits to be dewatered or pumped for this project? **If you answered "Yes" to this question, please answer the sub-questions under A.**

☒ Yes ☐ No

i. Will the specifications include construction site dewatering methods consistent with the Wisconsin DNR Conservation Practice Standard 1061 or equivalent methodology?

☒ Yes ☐ No

ii. If contaminated groundwater or soils are expected on the site, will section(s) of the specifications address handling and discharge requirements for the contaminated media?

☒ Yes ☐ No

iii. Will the specifications include requirements for the contractor to submit and obtain the necessary Wisconsin Discharge Elimination System (WPDES) permits and/or high capacity well approvals for the dewatering for the project?

☒ Yes ☐ No

Note: Dewatering or pumping of groundwater or contaminated groundwater if encountered from construction trenches or pits that is discharged to a water of the state (excludes discharge to sanitary sewer systems) requires coverage under a WPDES permit. These discharges may be eligible under either the Dewatering Operations WPDES General Permit or the Contaminated Groundwater from Remedial Action Operation WPDES General Permit (<https://dnr.wi.gov/topic/wastewater/GeneralPermits.html>). Also dewatering systems that will have a total combined pumping capacity of 70 gallons per minute (100,000 gallons per day) or more may require a high capacity well approval (<https://dnr.wi.gov/topic/Wells/HighCap/Apply.html>).

10. Separation Between Water Supplies

A. Are all proposed sewers and manholes at least 200 feet from public water system wells (s. NR 811.12(5)(d)3., Wis. Adm. Code) **OR** are all proposed sewers that meet the material, joint, and testing requirements of s. NR 811.12(5)(d)2., Wis. Adm. Code at least 50 feet from public water system wells and all manholes at least 200 feet from public water system wells?

☒ Yes ☐ No

B. Is the minimum horizontal separation distance of 8 feet between the sewer and existing or future water mains being met? (s. NR 811.74(2), Wis. Adm. Code)?

☒ Yes ☐ No

C. Where water mains cross over sewers, is the minimum vertical separation distance of 6 inches being met (s. NR 811.74(3), Wis. Adm. Code)?

☒ Yes ☐ No ☐ N/A

D. Where water mains cross under sewers, is the minimum vertical separation distance of 18 inches being met (s. NR 811.74(3), Wis. Adm. Code)? ☒ Yes ☐ No ☐ N/A

E. If you answered "No" to any of the above questions (A-D), please answer the sub-questions under E. The below are required for sewers that do not meet the separation requirements from new or existing public water system infrastructure.

i. Has the public water system given written approval or no-objection to the sanitary sewer plans? ☐ Yes ☐ No

ii. Has a plan submittal with a request for review been sent to the DNR Public Drinking Water Engineering Section? ☐ Yes ☐ No

iii. Is a copy of the written no-objection/approval from the public water system and DNR Public Water Engineering Section attached to this plan submittal? ☐ Yes ☐ No

F. Are all sewers at least 25 feet from all existing private or non-community wells (s. NR 812.08(4) Table A, Wis. Adm. Code)? If answered "No" to this question, please answer the sub-questions under F. ☒ Yes ☐ No

i. Has Form 3300-208 (Application for Sewer/Existing Private Well Separation) been submitted to the DNR Drinking Water and Groundwater Program to request a variance to the 25-foot separation distance requirement? ☐ Yes ☐ No

ii. Is a copy of the approved variance to the 25-foot separation distance attached to this plan submittal? ☐ Yes ☐ No

11. List below all sewers to be constructed as part of this project:

Diameter (in.)	Length (feet)	Street Name or Easement Description	Material
8	456	Goldfinch Drive	PVC
8	718	Red Cardinal Drive	PVC
8	714	Offsite	PVC

12. Sewer Design Requirements (s. NR 110.13(2), Wis. Adm. Code)

A. Will the all sewers be installed deep enough to prevent freezing? If you answered "No" to this question, please answer the sub-questions under A. The below are required for sewers that do not meet the minimum depth of cover to prevent freezing. ☒ Yes ☐ No

i. Please specify the type and thickness of insulation that will be provided, and the basis for the thickness of the proposed insulation:

ii. Are all the proposed locations of insulated pipe(s) along with a standard construction detail indicated on the plans? ☐ Yes ☐ No

B. Will all gravity sewers be installed deep enough to provide gravity basement drainage for sanitary wastes? ☒ Yes ☐ No ☐ N/A

i. If no, has the owner(s) of the existing buildings been advised, in writing, prior to construction of the sewers? ☐ Yes ☐ No

C. Do all proposed gravity sewers meet the minimum slope requirements as specified in s. NR 110.13(2) (c), Wis. Adm. Code? If you answered "No" to this question, please answer the sub-questions under C, and provide design calculations for the estimated peak diurnal flow velocity in the non-conforming pipe segment(s). The below are required for sewers that do not meet the minimum slope requirements. ☒ Yes ☐ No ☐ N/A

i. Has the sewer system owner provided justification that demonstrates that the physical circumstances warrant the lesser slopes? ☐ Yes ☐ No

ii. Has written assurance been submitted from the sewer system owner that the sewer system owner will provide the additional maintenance which may result from sedimentation due to the decreased velocities? ☐ Yes ☐ No

- D. Will all proposed gravity sewers be designed with an average velocity of 2.0 feet per second or greater when flowing full? ☒ Yes ☐ No ☐ N/A
- E. Will all gravity sewers be laid with straight alignment between manholes? ☒ Yes ☐ No ☐ N/A
- F. Will all gravity sewers that have slopes greater than 20% be anchored consistent with s. NR 110.13(2)(g), Wis. Adm. Code ☐ Yes ☐ No ☐ N/A
- G. Where velocities of greater than 15 feet per second are attained, will special provisions be made to protect against displacement or erosion? ☐ Yes ☐ No ☒ N/A
- H. Are design calculations for all proposed sewers attached to this plan submittal? ☒ Yes ☐ No

13. Manhole Installation (s. NR 110.13(3), Wis. Adm. Code)

- A. Is there a manhole present at all changes in grade and size or alignment, and at all pipe intersections? ☐ Yes ☒ No
- B. Is a manhole being constructed at the end of each sewer line (including stubbed sewer)? **If you answered "No" to this question, please answer the sub-questions under B.** The below are required for each of sewer line where a manhole is not installed at the end. ☒ Yes ☐ No ☐ N/A
- i. Will all stubbed sewers be capped or plugged and will no service be provided until a manhole is installed under a Department approved project? ☐ Yes ☐ No ☐ N/A
- ii. Is the cap or plug labeled on the plans for each stubbed sewer? ☐ Yes ☐ No ☐ N/A
- C. Will all manholes be spaced less than or equal to the required maximum intervals as specified in s. NR 110.13(3)(b), Wis. Adm. Code? **If you answered "No" to this question, please answer the sub-question under C.** The below are required for manholes that do not meet the manhole spacing requirements. ☒ Yes ☐ No ☐ N/A
- i. Does the sewer system owner have access to cleaning equipment with the capability to reach the extended sewer lengths? ☐ Yes ☐ No
- D. Is an outside drop provided at each manhole where the invert elevation of the entering sewer is 2 feet or more above the spring line of the outgoing sewer? **If you answered "Yes" or "No" to this question, please answer the sub-questions under D.** ☒ Yes ☐ No ☐ N/A
- i. List the location of all manholes where an entering sewer is 2 feet or more above the spring line of the outgoing sewer:
- ii. Are all outside and/or inside drop manholes labeled on the plans? ☒ Yes ☐ No
- iii. Is a standard construction detail of the outside and/or inside drop manhole provided in the plans? ☒ Yes ☐ No
- iv. Will the entire outside drop connection be encased in the concrete? ☒ Yes ☐ No ☐ N/A
- v. For installation of inside drop connections in new manholes, will an oversized manhole be installed? ☐ Yes ☐ No ☒ N/A
- vi. For installation of inside drop connections in existing manholes that are not oversized, is justification provided that explains why an outside drop cannot practicably be constructed and how the encroachment upon the maintenance and access of the manhole will be addressed? ☐ Yes ☐ No ☒ N/A
- E. Will the diameter of all manholes be greater than or equal to 42 inches? ☒ Yes ☐ No
- F. Will the flow channel through the manholes be made to conform to the shape and slope of the sewers? ☒ Yes ☐ No
- G. Are the tops of all manholes at or above finished grade? ☒ Yes ☐ No

14. Force Mains (s. NR 110.14(3)(j), Wis. Adm. Code):☐ Yes ☒ No

Sanitary Sewer Submittal

Form 3400-059 (R 08/20) Page 6 of 6

Finale

A. Is a cleansing velocity of at least 2 feet per second maintained in the force main at the design pumping rate of the lift station?

☐ Yes ☐ No

B. Please specify what type of air relief will be provided at each high point in the force main (select one):

- ☐ Combination Automatic Air Relief and Vacuum Valve
☐ Automatic Air Relief Valve
☐ Manual Air Relief Valve
☐ Other specify _____

C. When a force main enters the gravity sewer manhole, will the discharge be at a point not more than 2 feet above the spring line of the receiving sewer?

☐ Yes ☐ No

15. Clearwater

A. If this is a sewer extension, will all storm and other clearwater including that from sump pumps, roof drains, cistern overflows, and building foundation drains be excluded for these proposed sanitary sewers, to the best of your knowledge?

☐ Yes ☐ No ☐ N/A

B. To the best of your knowledge, will street and tributary building sewers be laid in such a manner as to minimize entrance of groundwater and will building sewers and drains be installed to conform with clearwater prohibitions in state plumbing regulations (s. SPS 382.36(4)(6), Wis. Adm. Code)?

☒ Yes ☐ No

Certification

I certify that this document, to the best of my knowledge and belief, is true, accurate, and complete.

Signature of Consulting or Municipal Engineer Responsible for Preparing this Form

Date Signed

12/1/20

Wisconsin P.E. Number E-25512

Sewer Specification Checklist
Form 3400-095 (R 4/17)

Notice: In accordance with s. NR. 108.04(2)(a), Wis. Adm. Code, this form is authorized to accompany final specifications for any reviewable sanitary sewer project that is submitted to the Department of Natural Resources (Department) pursuant to s. 281.41, Wis. Stats and s. NR 108.03, Wis. Adm. Code. Completion of this form is required by the Department for any sanitary sewer plan submittal to evaluate conformance with requirements in chs. NR 108 and 110, Wis. Adm. Code

All necessary information must be provided on this form. Failure to complete this form correctly may result in rejection of this form by the Department. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law (ss. 19.31 - 19.39, Wis. Stats.).

Please type or clearly print your answers to all questions.

Sanitary sewers will be constructed in accordance with (select one of the following):

- ☐ 1. Standard specifications for Sewer and Water Construction in Wisconsin (_____ edition).

Note: Standard specifications do not amply cover erosion control measures. Special provisions must be submitted.

- ☐ 2. Standard specifications for municipality on file with the Department:

Municipality Name: _____

Approval Number: _____ Date of Approval: _____

Are the specifications on the file with the Department less than 4 years old? ☐ Yes ☐ No

- ☒ 3. Specifications submitted with plans (please fill out Sections A through G below):

Note: Specifications must be signed and sealed by a professional engineer.

A. Pipe Material	Application Standard	Joint Type and Standard
Asbestos Cement	_____	_____
Cast Iron	_____	_____
Concrete	_____	_____
Vitrified Clay	_____	_____
Steel	_____	_____
Ductile Iron	_____	_____
PVC	D2241	Gasket
ABS Composite	_____	_____

Is any pressure sewer pipe being used? ☐ Yes ☐ No

If yes, indicate type, standard and joints: _____

B. Is trench width adequate for pipe laying, jointing and placement of proper backfill? ☒ Yes ☐ No

C. Bedding type for pipe meets requirements of ASTM C12-81 or MOP 9? ☐ Yes ☐ No

☐ Class A ☐ Class B ☐ Class C

Bedding material for PVC and ABS composite pipe meets requirements of ASTM D2321-80? ☒ Yes ☐ No

☒ Class I ☐ Class II ☐ Class III

D. Suitable backfill material within 2 feet of pipe (no frozen or organic material or large stones)? ☒ Yes ☐ No

E. Infiltration - less than 200 gal/in/mi/day? ☒ Yes ☐ No

Test Procedure: Low Pressure Air

F. PVC pipe deflection testing? ☒ Yes ☐ No ☐ N/A

Method: Mandrel

G. Manholes:

Diameter 48 Inch Internal Diameter Precast

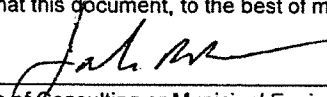
Material Concrete

Outside Drops NA

Water Tight Inlets and Outlets Yes

Sketch Included per Village Specifications

I certify that this document, to the best of my knowledge and belief, is true, accurate, and complete.



Signature of Consulting or Municipal Engineer Responsible for Preparing this Form

E-25512

Wisconsin P.E. Number

Sanitary Sewer or Lift Station Project Approval Request

Form 3400-160 (R 11/17)

Page 1 of 2

Date: 11/30/2023

Notice: In accordance with s. NR. 108.04(2)(a), Wis. Adm. Code, this form is authorized to accompany final plans and/or specifications for any reviewable sanitary sewer and/or lift station project that is submitted to the Department of Natural Resources (Department) pursuant to s. 281.41, Wis. Stats and s. NR 108.03, Wis. Adm. Code. Completion of this form is required by the Department for any sanitary sewer or lift station plan submittal to evaluate conformance with requirements in chs. NR 108 and 110, Wis. Adm. Code.

All necessary information must be provided on this form. Failure to complete this form correctly may result in rejection of this form by the Department. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law (ss. 19.31 - 19.39, Wis. Stats.).

Please type or clearly print your answers to all questions.

General Information

I am submitting one paper copy and one CD containing PDF files of plans and/or specifications for (select all that apply).

☒ Sanitary Sewer Extension ☐ Sewer Replacement/Rehabilitation ☐ Lift Station ☐ Force Main

Project Title:

Finale

Project construction will occur at the following locations:

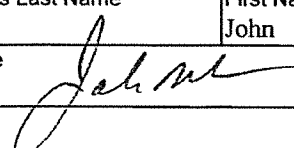
Street	Pipe Size (in.)	Pipe Length (ft.)
Goldfinch Drive	8	456
Red Cardinal Drive	8	718
Offsite	8	714

The sewer and/or lift station plan submittal conforms with the following:

True ~~False~~ NA

- ☒ ☐ Attached are completed Department Forms 3400-205, 3400-059, 3400-095 and 3400-168 (Form 3400-168 is only required for lift station projects).
- ☒ ☐ Attached is a general map of the proposed sanitary sewer extension showing the proposed sewer service area.
- ☒ ☐ Attached is the sewerage system owner approval letter in accordance with s. NR 110.12, Wis. Adm. Code (Only required if the engineer is not an employee of or has not been retained by the municipality).
- ☒ ☐ Attached is a copy of the wastewater treatment facility (WWTF) approval letter (Only required if sewer system is connected to a regional WWTF).
- ☒ ☐ Attached is a copy of the Sewer Service Area /Water Quality Management (208) conformance letter (See communities which require this letter available at the WDNR website: <http://dnr.wi.gov/topic/wastewater/RPClist.html>).
- ☒ ☐ Sewers do not come within 50 feet of a private water supply well OR 200 feet of a public water supply well in conformance with ss. NR 811.12 (5)(d) and 812.08(4)(c), Wis. Adm. Code.
- ☐ ☐ ☒ Lift Stations do not come within 8 feet of water main, 100 feet of a private water supply well OR 200 feet of a public water supply well in conformance with ss. NR 811.12 (5)(d), 811.75(1)(a) and 812.08(4)(d), Wis. Adm. Code.
- ☒ ☐ Sewers meet the minimum required horizontal and vertical separation distances from water mains in conformance with s. NR 811.74, Wis. Adm. Code.
- ☒ ☐ Erosion and sediment control practices are consistent with the WDNR construction site erosion and sediment control technical standards and are on the plan sheets. (The WDNR construction site erosion and sediment control technical standards are available on the WDNR website at: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html). If the project is part of a construction site that will disturb one or more acres of land, a Notice of Intent and associated attachments (Forms 3500-053 and 3500-053C) for coverage under the Construction Site Stormwater Runoff General Permit has been submitted to the Department in accordance with ch. NR 216, Wis. Adm. Code.
- ☐ ☒ Sewer and/or lift station construction does not impact any wetlands.
- ☒ ☐ Sewer and/or lift station construction does not impact any navigable waterways.
- ☒ ☐ Sewer and /or lift station plans and specifications are in conformance with chs. NR 108 and 110, Wis. Adm. Code.

I certify that this document, to the best of my knowledge and belief, is true, accurate, and complete.

Preparer's Last Name	First Name	Email	P.E. Number
Davel	John	john@davel.pro	E-25512
Signature	Name of Firm		
	Davel Engineering & Environmental, Inc.		

**Sanitary Sewer or Lift Station Project
Approval Request**

Form 3400-160 (R 11/17)

Page 2 of 2

If you have any questions on sewer and/or lift station approval requests or the plan review process, please visit the WDNR website at:
<http://dnr.wi.gov/topic/wastewater/AdequateSubmittal.html>

Wastewater System Approval Request

Form 3400-205 (R 4/17)

Notice: In accordance with s. NR. 108.04(2)(a), Wis. Adm. Code, this form is authorized to accompany final plans and/or specifications for any reviewable project that is submitted to the Department of Natural Resources (Department) pursuant to s. 281.41, Wis. Stats and s. NR 108.03, Wis. Adm. Code.

All necessary information must be provided on this form. Failure to complete this form correctly may result in rejection of this form by the Department. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law (ss. 19.31 - 19.39, Wis. Stats.).

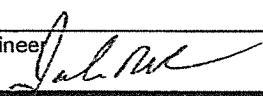
Please type or clearly print your answers to all questions.

Owner Information				
Owner Name (Municipality, Company or other)		WPDES Permit No. *		County (of project location)
Village of Greenville				Outagamie
Owner Representative Last Name	First Name	MI	Title	
Helgeson	Wendy		Clerk	
Address		City	State	ZIP Code
P.O. Box 60		Greenville	WI	54942
Phone Number (include area code)		Email Address		
(920) 757-5151		whelgeson@greenvillewi.gov		

Design Engineer Information			
Last Name	First Name	MI	
Davel	John	R	
Title	Company Name		
Project Engineer	Davel Engineering & Environmental, Inc.		
Address	City	State	ZIP Code
1164 Province Terrence	Menasha	WI	54915
Phone Number (include area code)	Email Address		
(920) 991-1866	john@davel.pro		

Project Information	
Project Title	
Finale	
Project Description	
Proposed sanitary sewer extension to serve single-family subdivision.	

Certification	
I certify that this document and the plans and specifications, to the best of my knowledge and belief, are true, accurate, and complete; and conform to all applicable design requirements contained in the Wisconsin Administrative Code with the exception of any requested variances or alternative requirements as detailed below:	
Requested Design Variances or Alternative Requirements	
None	

Design Engineer Name (print)	Wisconsin P.E. Number*
John R. Davel	E-25512
Signature of Design Engineer	Date Signed
	12/1/23

Type of Project		
Select all that apply:		
<input checked="" type="checkbox"/> Sanitary Sewer Extension	<input type="checkbox"/> Municipal Treatment Plant	<input type="checkbox"/> Non-Domestic POWTS
<input type="checkbox"/> Sewer Replacement/Rehabilitation	<input type="checkbox"/> Industrial Treatment Plant	<input type="checkbox"/> Septage Storage Facility
<input type="checkbox"/> Lift Station	<input type="checkbox"/> Industrial Pretreatment Facility	<input type="checkbox"/> Large POWTS
<input type="checkbox"/> Force Main	<input type="checkbox"/> Other:	
<input type="checkbox"/> Clean Water Fund? Provide CWF Project Number if known:		
<input type="checkbox"/> Requesting Expedited Review (ONLY AVAILABLE FOR CERTAIN TYPES OF PROJECTS. See Instructions at our webpage here: Expedited Review)		

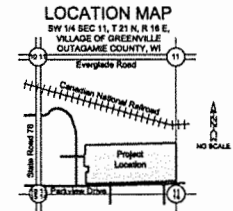
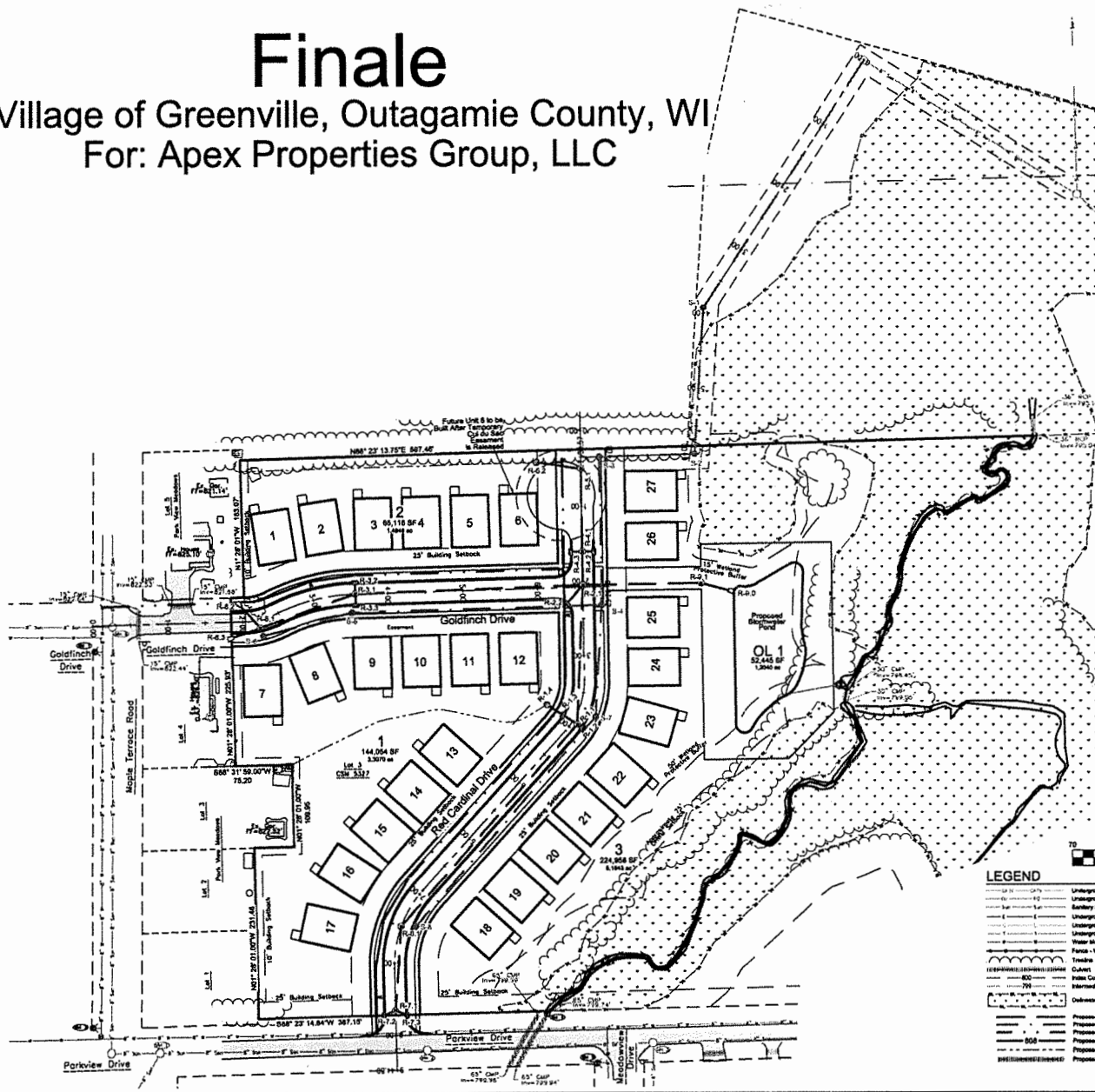
PROJECTS FINANCED BY THE CLEAN WATER FUND REQUIRE A FACILITIES PLAN

Website for plan submittal guidance: <http://dnr.wi.gov/topic/wastewater/AdequateSubmittal.html>

*May not be required for industrial pretreatment facilities.

Finale

Village of Greenville, Outagamie County, WI
For: Apex Properties Group, LLC



Sewer and Water shall be constructed in accordance with Standard Specifications of the Village of Greenville including select trench bedding within roadways to a distance two feet behind curve.

Streets shall be constructed in accordance with Standard Specifications of the Village of Greenville.

Contractor shall locate all buried facilities prior to excavating. This plan may not correctly or completely show all buried facilities.

The Contractor shall verify all existing and field layout against the plan and field conditions prior to constructing the work, and immediately notify the Engineer of any discrepancies.

The Contractor shall comply with all conditions of the Erosion Control Plan and the Storm Water discharge Permit. All Erosion Control shall be done in accordance with the Plan and Wisconsin DNR Technical Standards.

Pipe lengths are measured to center of structure. Endwalls are included in pipe length.

Sanitary Sewer manhole covers should be rotated away from the sidewalk in areas it is close to a conflict.

SITE INFORMATION:

Legal Description: CSM 5327 Lot 3 & Part of CSM 5279 Lot 3
Parcel No: 111040108 & 111040507
Current Use: Vacant
Proposed Use: Single-Family Housing

Current Zoning: R1 and AGD
Proposed Zoning: n/a

Proposed zoning = R1

Parcel Area: 334,976 SF (7.6)

Total: 571,600 SF (13.1)































PROPERTY OWNER:

Mike Blank
Apex Properties Group, LLC
28 Duane Ct.
Appleton, WI 54914
Telephone: (920) 707-2002
Email: lsakush113@yahoo.com

SHEET INDEX:

Sheet	Page
Control/Topographic Sheet	1.0
Sewer & Water Cover Sheet	1.1
Drainage and Grading Plan	1.2
Erosion & Sediment Control Plan	1.3
Construction Details	2.1
Sewer & Water Details	2.2
Erosion & Sediment Control Details	2.3
Erosion & Sediment Control Details	2.4
Erosion & Sediment Control Details	2.5
Stormwater Pond Details	2.6
Curb Return Profile - Rad Cardinal Drive	2.7
Curb Return Profile - Goldsmith Drive	2.8
Plan & Profile: Goldsmith Drive - Sta 0+00 to 5+63.42	3.1
Plan & Profile: Rad Cardinal Drive - Sta 0+00 to 4+50.32	3.2
Plan & Profile: Rad Cardinal Drive - Sta 0+00 to 9+44.80	3.3
Plan & Profile: Offsite Secondary - Sta 0+00 to 7+38.57	3.4

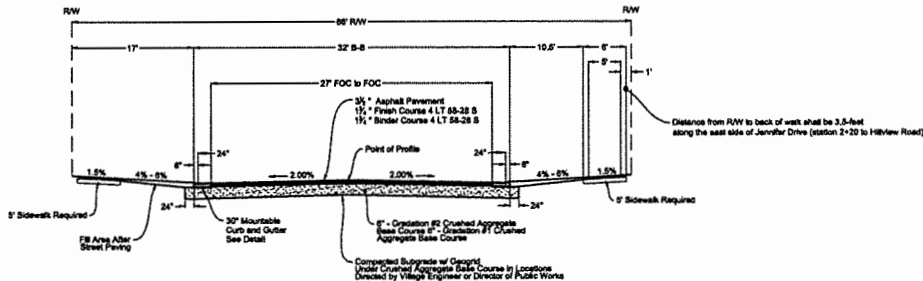
LEGEND

                             	<p>Underground Cable TV</p> <p>Underground Gas Pipe</p> <p>Battery Backed</p> <p>Underground Electric</p> <p>Underground Gas Line</p> <p>Underground Telephone</p> <p>Water Main</p> <p>Flank - Wood</p> <p>Trunking</p> <p>Cable</p> <p>Index Corridor - Banking</p> <p>Intermediate Corridor - Banking</p> <p>Delimited Walkways</p> <p>Proposed Screen Barriers</p> <p>Proposed Screen Barriers</p> <p>Proposed Water Main</p> <p>Proposed Corridor</p> <p>Proposed Barriers</p> <p>Proposed Culvert</p>	<p>Sanitary N/T Type / Base</p> <p>Hydrant</p> <p>Utility Valve</p> <p>Utility Valve</p> <p>Electric Potentials</p> <p>Electric Potentials</p> <p>Air Conditioner</p> <p>GATV Potentials</p> <p>Gas Regulator</p> <p>Proposed Screen Barriers</p> <p>Proposed Screen Barriers</p> <p>Proposed Curb In</p> <p>Prop. Cash Bins / Hand Drain</p> <p>Proposed (Existing)</p> <p>Proposed Hydrant</p> <p>Proposed Valve</p> <p>Proposed Curb Bins</p> <p>Proposed Channel</p>	<p>Sign</p> <p>Post / Guard Post</p> <p>Distribution Tree</p> <p>Confined Tree</p> <p>Built / Hedge</p> <p>16' Fence Found</p> <p>10' Fence Found</p> <p>1' Iron Pipe Found</p> <p>Barriers</p> <p>Asphalt Pavement</p> <p>Concrete Pavement</p> <p>Gravel</p>
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SEWER & WATER
COVER SHEET

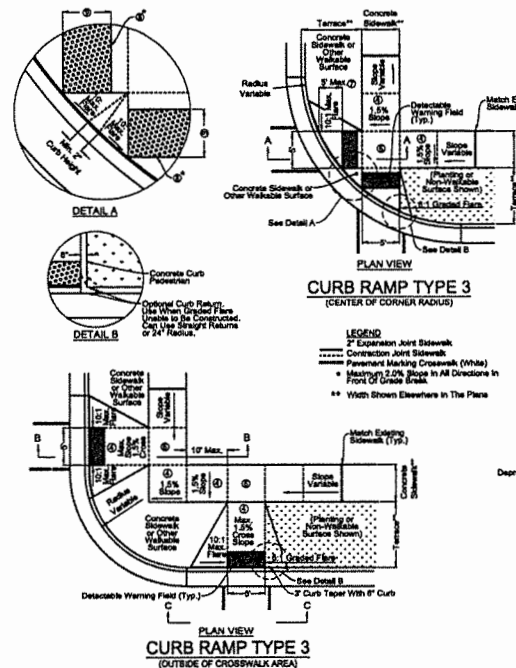
**DAVEL ENGINEERING &
ENVIRONMENTAL, INC.**
Civil Engineers and Land Surveyors
1184 Province Terrace, Menasha, WI 54952
Ph: 920-891-1868 Fax: 920-441-0804
www.davelpro.com

Project Number: 7726
April 17, 2024



- NOTES:
1. Other Typical Sections May be Required by Municipality.
 2. Roadway Longitudinal Slopes Shall be Greater Than or Equal to 1% Unless Approved by Municipality.
 3. Back of Curb Radius For All Intersections to be 25' (Typ.).

TYP. STREET SECTION (66' R/W) URBAN LOCAL ROADWAY



GENERAL NOTES

Avoid placing drainage structures, junction boxes or other obstructions in front of ramp access level.

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the standard specifications and the applicable special provisions.

Detachable warning fields that are installed as a group or side by side shall be from the same manufacturer.

① Grade change between gutter line slope and the curb ramp slope shall not exceed 11%. Maximum gutter line slope shall be 4%. Provide a 1.4% cross slope (See SDD 805-g) for the curb ramp slope. The curb ramp slope shall be 1.4% (See SDD 805-g) for the curb ramp slope. The curb ramp slope shall be 1.4% (See SDD 805-g) for the curb ramp slope.

② An 8.33% curb ramp slope is acceptable with a 1.4% cross slope (2.87% or less) and not to exceed 1% grade change.

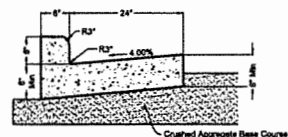
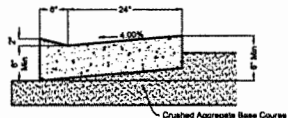
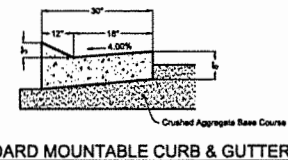
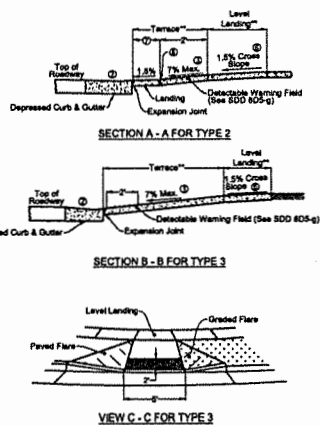
③ A 0.25% cross slope tolerance in sidewalk cross slope. The sidewalk cross slope shall not exceed 2% without prior approval from the engineer.

④ Provide a 1.4% cross slope (max. 2% slope) in any direction of pedestrian travel. Standard level landing size is 6' x 6'.

⑤ When grade break distance exceeds 5 feet, use raised detectable warning field per SDD 805-g.

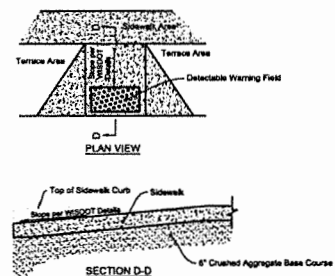
⑥ Provide grade break perpendicular to direction of wheelchair travel.

⑦ When distance is less than 6' x 6', it may be difficult to achieve a 7% slope or better along the ramp. Section shall be installed in a manner to achieve a 7% slope or better on ramp. Construct 2' x 6' non-curb length (See SDD 805-g).



NOTES:

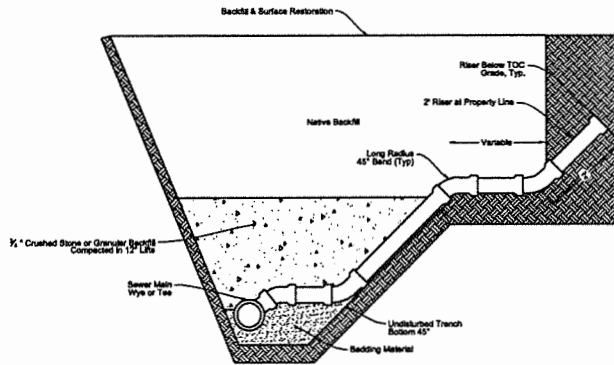
1. Reinforcement Required at All Utility Trenches (20' Length) and 10' Each Way of Inlets.
2. Ties to Existing Curb and Gutter, Detail 2 No. 4 Rebar into the Existing.
3. When Reinforcing is Required, Place 2 - No. 4 Rebar As Follows:
A) 3" From Each Face, 3" From Each Face.
B) 3" From Bottom.
4. The Bottom Of Curb And Gutter May be Constructed Either Level Or Parallel To The Slope Of The Subgrade Or Base Course Provided A 9" Min. Outer Thickness is Maintained.
5. Barrier Curb to be Installed When Certain Design Parameters Are Met (Protection From Adjacent Pedestrian Accommodations or High Foot-traffic Areas, Storm Water Capacity Constraints, Etc.)



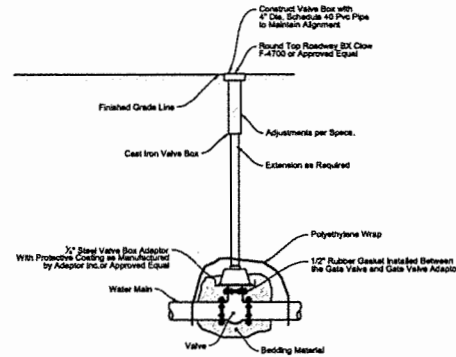
- 2x12 Detachable Warning Field Shall be Heaviest Foundry With Natural Grain Iron Finish as per Manufacturer Specs.
- The Surface Texture Of The Ramp (Including The Truncated Dome Panel) Shall be a Coarse Broomed Finish. Interference In The Slope of the Ramp.
- Concrete Shall be 8" Thick.

CURB RAMP DETAIL



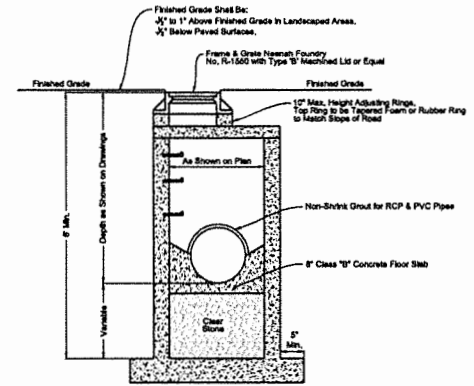


STANDARD RISER FOR SEWER CONNECTION



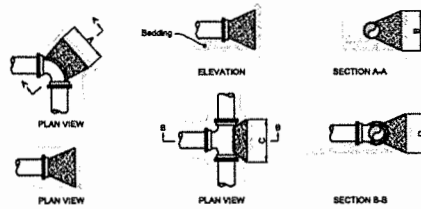
Note: Use 2"x4" in Box to Get Box Plumb

STANDARD VALVE BOX



- NOTES:
1. Base Shell to be Cast Monolithic with Barrel Section.
 2. Non-shrink Grout May be Used on Manhole Connections for PVC and RCP Pipes.
 3. Barrel Section shall be One Piece.

STANDARD STORM SEWER MANHOLE



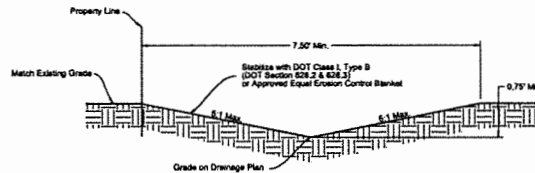
NOTES:

1. Reaction Blocking With Contact Filling From Bell to Bell and the Full Diameter of Fitting as Shown.
2. Cast Blocking Against Undisturbed Earth.
3. Use Class 'B' Concrete Blocking.

Dimensions in Tables are Based on Water Pressure of 150 PSI and Earth Resistance of 4,000 Pounds

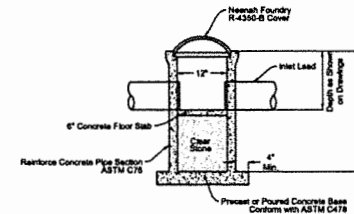
min.									
in.	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
3/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1 1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1 1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
3"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
6"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

STANDARD BLOCKING



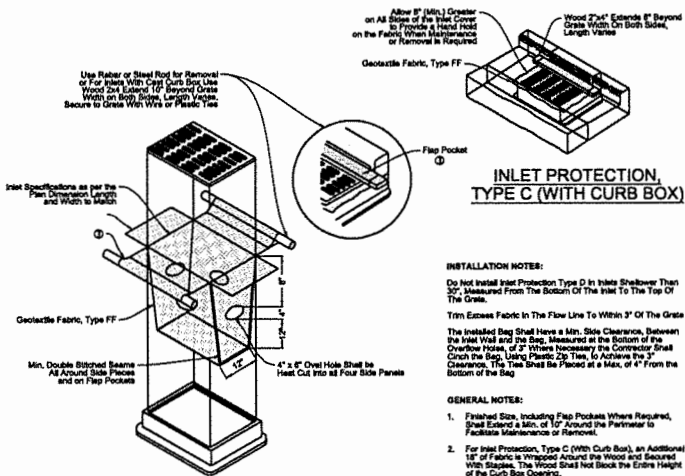
Note: Mat Should Extend to Top of Bank or 18" Vertically, Whichever is Less.

TYPICAL DRAINAGE SWALE SECTION



- NOTES:
1. Provide Neenah R-4500-13 Flat Cover as Required.
 2. Max. Pipe Size shall be 8" PVC.

RCP YARD DRAIN DETAIL



INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE.)

INSTALLATION NOTES:

Do not install Inlet Protection Type D in Inlet Shallower Than 30". Measure From The Bottom Of The Inlet To The Top Of The Grate.

Trim Excess Fabric In The Flow Line To Within 3" Of The Grate.

The Installed Bag Shall Have a Min. Side Clearance, Between the Inlet Wall and the Bag, Measured at the Bottom of the Overflow Holes, of 3" Where Necessary the Contractor Shall Cut the Bag, Using Plastic Zip Tie, to Achieve the 3" Clearance. The Tie Shall Be Placed at a Max. of 4" From the Bottom of the Bag.

GENERAL NOTES:

1. Finished Size, Including Flap Pockets Where Required, Shall Extend a Min. of 10" Around the Perimeter to Facilitate Maintenance or Removal.

2. For Inlet Protection, Type C (With Curb Box), an Additional 18" of Fabric is Wrapped Around the Wood and Secured With Staples. The Wood Shall Not Block the Entire Height of the Curb Box Opening.

3. Flap Pockets Shall be Large Enough to Accept Wood 2x4.

4. Inlet Protection, Type D are Required When Resuspension is Completed After September 1st.

GENERAL NOTES:

Details of Construction, Materials, and Workmanship Not Shown on This Drawing Shall Conform to the Pertinent Requirements of the Standard Specifications and the Applicable Special Provisions.

Tracking Pad shall be Inspected Daily. Deficient Areas Shall be Repaired or Replaced Immediately.

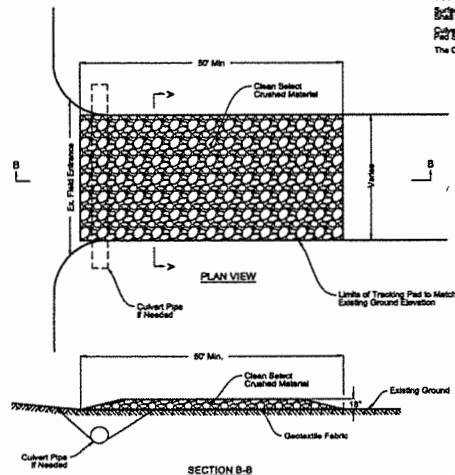
Tracking Pad to be Removed After Construction is Completed.

Tracking Pad Shall be the Full Width of the Egress Point.

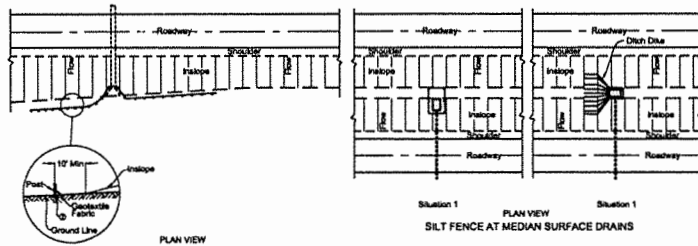
Excess Water Shall be Prevented From Passing Through the Tracking Pad. Flows Shall be Directed Away, Around or Contained Under the Tracking Pad.

Culvert Pipe or Other Item Used to Direct Water Away, Around, or Under the Tracking Pad Shall be Designed to Carry the 2 Year - 24 Hour Event.

The Cost of Additional Pipe to Divert Water are Incidental to the Tracking Pad Bid Item.

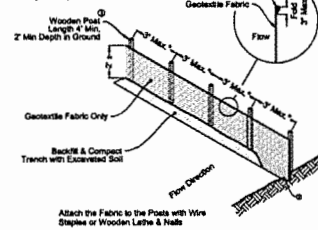


TRACKING PAD



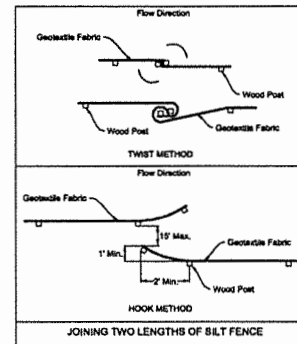
TYPICAL APPLICATION OF SILT FENCE

Note: Additional Post Depth or Tie Backs May be Required in Unstable Soils.



SILT FENCE

SILT FENCE AT MEDIAN SURFACE DRAINS



General Notes:

Details of Construction Not Shown on This Drawing Shall Conform to the Pertinent Requirements of the Standard Specifications and Applicable Special Provisions.

1. Horizontal Braces Required With 2" x 4" Wooden Frame or Equivalent at Top of Posts.

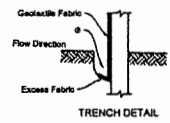
2. For Manual Installations the Trench Shall be a Min. of 4" Wide & 6" Deep to Bury and Anchor the Geotextile Fabric. Fast Attached to 1/4" Trench and Backfill & Compact Trench With Excavated Soil.

3. Wood Posts Shall be a Min. Size of 1" x 1" of Oak or Hickory.

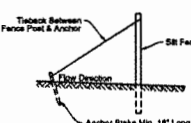
4. Silt Fence to Extend Across the Top of the Pipe.

5. 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:

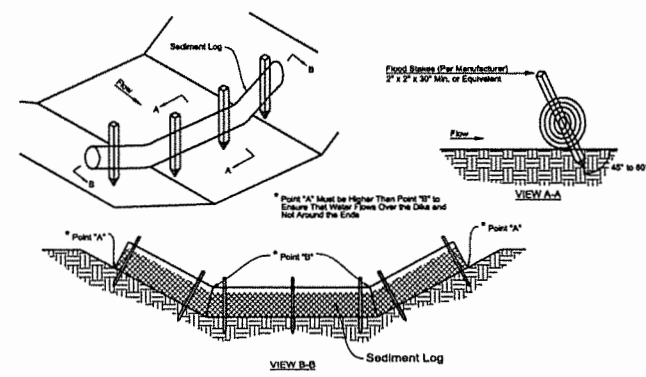
A) Overlap the End Panels and Ties, or Staples, at Least 180 Degrees
B) Hook the End of Each Silt Fence Length.



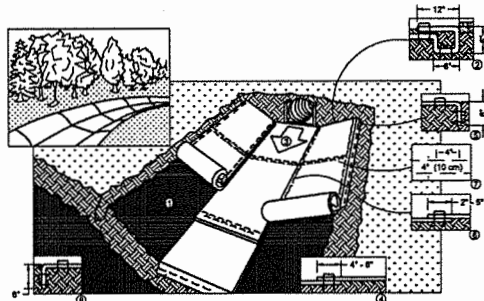
TRENCH DETAIL



SILT FENCE TIE BACK (WHEN REQ'D BY THE ENGINEER)



STANDARD SEDIMENT LOG DITCH CHECK



1. Prepare soil before installing Rolled Erosion Control Products (RECP's), including any necessary application of lime, fertilizer, and seed.
 2. When using seed, do not seed prepared area. Call-o-seed must be installed with paper side down.
 3. Begin at the top of the channel by anchoring the RECP's in a 6" (15 cm) deep x 8" (15 cm) wide trench with approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after staking. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) across the width of the RECP's.
 3. Roll center RECP's in direction of water flow in bottom of channel. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. When using the DOT system, staples/stakes should be placed through each of the colored dots corresponding to the appropriate staple pattern.
 4. Place consecutive RECP's and over (shingle style) with a 4" - 8" (10 cm - 15 cm) overlap. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center to secure RECP's.
 5. Full length edges of RECP's at top of slope must be anchored with a row of staples/stakes approximately 12" (30 cm) apart in a 6" (15 cm) deep x 8" (15 cm) wide trench. Backfill and compact the trench after staking.
 6. Adjacent RECP's must be overlapped approximately 2" - 8" (5 cm - 12.5 cm) (depending on RECP's type) and stapled.
 7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 M - 12 M) intervals. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center over entire width of the channel.
 8. The terminal end of the RECP's must be anchored with a row of staples/stakes approximately 12" (30 cm) apart in a 6" (15 cm) deep x 8" (15 cm) wide trench. Backfill and compact the trench after staking.
- Note:
- * In loose soil conditions, the use of staple or stake lengths greater than 6" (15 cm) may be necessary to properly anchor the RECP's.
8. Detail provided by North American Green (www.nagreen.com)

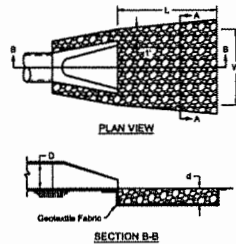


- Critical Points
- A. Overlap and seams
 - B. Projected Water line
 - C. Channel Bottom/slope variations

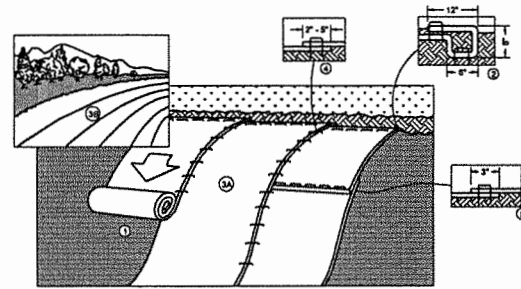
EROSION MAT CHANNEL INSTALLATION

DNR TECHNICAL STANDARD 1053

- Note:
- * 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" (15 cm) may be necessary to properly anchor the RECP's.



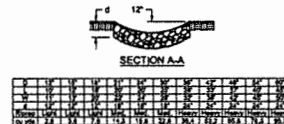
OUTLET PROTECTION



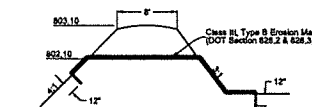
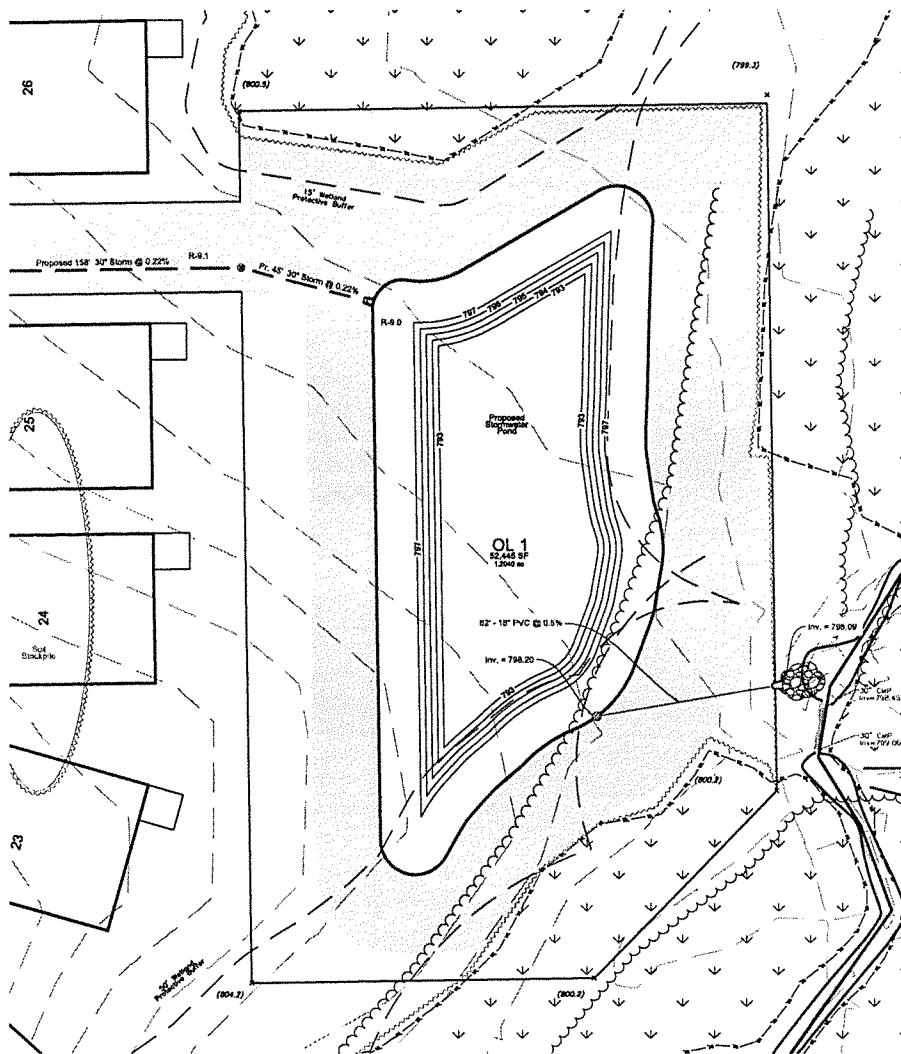
1. Prepare soil before installing Rolled Erosion Control Products (RECP's), including any necessary application of lime, fertilizer, and seed.
2. When using seed, do not seed prepared area. Call-o-seed must be installed with paper side down.
3. Begin at the top of the slope by anchoring the RECP's in a 6" (15 cm) deep x 8" (15 cm) wide trench with approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after staking. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) across the width of the RECP's.
3. Roll the RECP's (A.) down or (B.) horizontally across the slope. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. When using the Dot system, staples/stakes should be placed through each of the colored dots corresponding to the appropriate staple pattern.
4. The edges of parallel RECP's must be stapled with approximately 2" - 8" (5 cm - 12.5 cm) overlap depending on RECP's type.
5. Consecutive RECP's applied down the slope must be placed over and (shingle style) with an approximate 3" (7.5 cm) overlap. Staple through overlapped area, approximately 12" (30 cm) apart across entire RECP's width.
- Note: * In loose soil conditions, the use of staple or stake lengths greater than 6" (30 cm) may be necessary to properly secure the RECP's.
6. Detail provided by North American Green (www.nagreen.com)
7. Turf Reinforcement Mats (TRM's) shall be installed in accordance with the above specifications for all RECP's. Anchoring side and pattern is to be installed per manufacturer specifications for clay soils having 4:1 slope. All TRM's shall be loose-lift filled, seeded, and covered with a Class 2, Type B erosion mat in accordance with all manufacturer specifications.
8. Detail provided by North American Green (www.nagreen.com)

EROSION/TURF REINFORCEMENT MAT SLOPE INSTALLATION

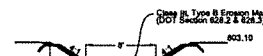
DNR TECHNICAL STANDARD 1052



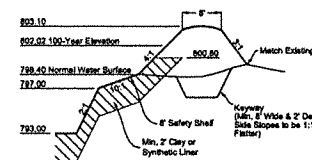
- Note:
1. Excavate below channel outlet and widen channel outlet to the required rmp thickness for each apron. Foundation to be set to zero grade and smoothed.
 2. Place geotextile fabric on bottom and sides of prepared foundation. Fabric shall extend under apron in accordance with DOT specifications. (DOT Section 628.2 & 628.3)
 3. Exercise care in placement of rmp to avoid damage to filter fabric.
 4. Use rmp conforming to Wisconsin DOT specifications. (DOT Section 606.2 & 606.3)
 5. Use DOT Type R geotextile fabric for light rmp. Use Type HR for medium and heavy rmp. (DOT Section 606.2, 606.3, 628.2 & 628.3)
 6. Use 12" dimension for pipes less than 12" in diameter.



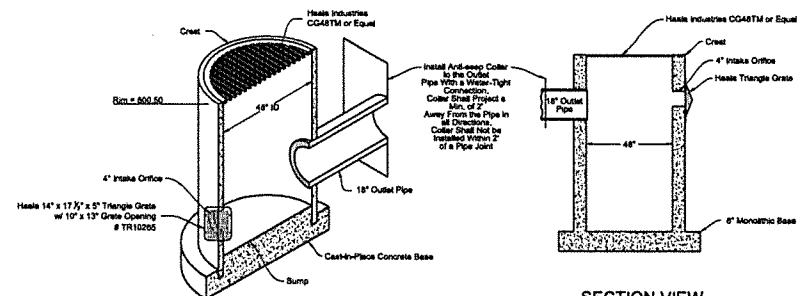
EMERGENCY SPILLWAY SECTION



EMERGENCY SPILLWAY DETAIL



TYPICAL EMBANKMENT SECTION



SECTION VIEW

POND OUTLET DETAIL

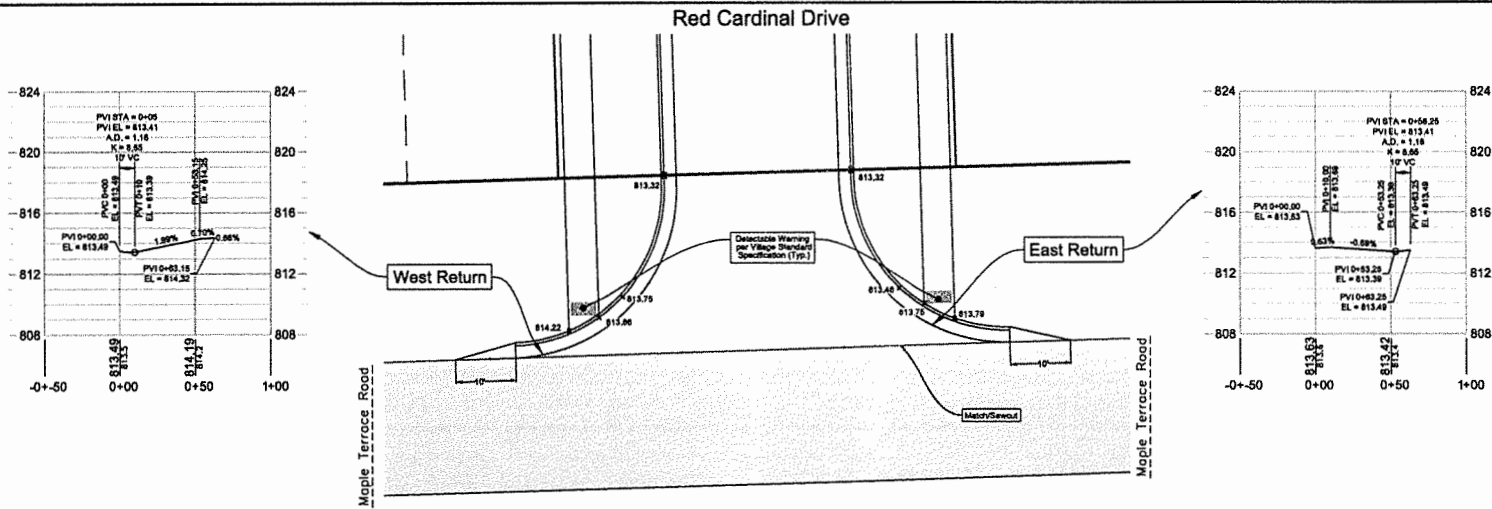
Outlet	Size, in	18
	Invert	796.40
	Slope (%)	0.5
Inlet orifice	Size, in	4
	Invert	798.40
Crest	Elevation	800.50
Bump	Elevation	796.40
Base	Elevation	794.40

Notes:

- Grate OD = 14" x 17 1/2" x 5"
- Plate Thickness = 3/4"
- Grate Opening = 10" x 12"
- Heale Industries Triangle Grate for Box Culvert Item # TR10135
- Triangle Grates are designed to cover inlet orifices and prevent small debris from passing through.
- The raised and angled design helps to deflect debris and increases filter area.
- All grates are made from plate for a clean and smooth contact surface instead of a bi-directional bar design or expanded metal.
- Plate design for a clean appearance.
- Standard 1" openings (other sizes can be made).
- Angled front plate to maximize debris deflection.
- Mounting flanges on 2-4 sides depending on size.
- Galvanized steel construction.
- Can be made from aluminum or stainless steel.

Pond Notes:

- The base of the embankment shall be stripped of all vegetation, stumps, topsoil and other matter. Stripping shall be to a minimum of 8 inches.
 - Embankments shall be constructed with non-organic soils and compacted to 90% standard proctor according to the procedure outlined in ASTM D-4958. No tree stumps, or other organic material shall be buried in the embankment. The constructed embankment height shall be increased a minimum of 5% to account for settling.
 - All pipes extending through the embankment shall be bedded and backfilled with embankment or equivalent soils. The bedding and backfill shall be compacted in lifts and to the same standard as the original embankment. Excavation through a completed embankment shall have a side slope of 1:1 or flatter.
 - Topsoil shall be spread on all disturbed areas, except for elevations below the safety shelf, as work is completed. The minimum depth of topsoil shall be 4 inches.
 - All areas disturbed by pond construction shall be seeded as work is completed. Pond side slopes above permanent pool shall be temporarily seeded with annual ryegrass or seed immediately after pond is "roughed in". This will require topsoil application. Slopes steeper than 10:1 but less than 4:1 will require properly anchored mulch in accordance with Section 627.1 of the DOT Standard Specifications for Highway and Structure Construction, DOT Class I, Type B erosion mat will be required on slopes steeper than 4:1 (Section 628.2 & 628.3).
 - Riprap at all inflow points shall extend a minimum of 18 vertical inches below the permanent pool. (Section 608.2 & 608.3)
 - Any rock encountered shall be excavated to a depth two feet deeper than the proposed pond grade.
 - The pond shall be constructed with a Type B Liner with the following WDMR specifications (Wet Detention Pond Technical Standard 1001): Liners include: Clay, High Density Polyethylene (HDPE), Polyethylene Pond Liner (PEL) or any liner satisfying Type A Liner criteria.
- Clay liner specifications are as follows:
- 80% flow (200 sieve) or more.
 - Hydraulic conductivity of 1 x 10-4 cm/sec or less.
 - Average liquid limit of 18 or greater, with no value less than 14.
 - Average PI of 7 or more, with no value less than 5.
 - Clay compaction and documentation as specified in NRCS Wisconsin Construction Specification 204, Earthfill for Waste Storage Facilities.
 - Minimum thickness of 2 feet.
 - If in-situ soils meet the above requirements of the specification for a Type B Clay Liner, including a minimum saturated hydraulic conductivity of 1 x 10-4 cm/sec to a depth of 4 feet below the pond bottom, the in-situ soils then satisfy the pond liner requirements.
- HDPE liner specifications are as follows:
- Minimum thickness of 40 mils.
 - Design according to the criteria in Table 3 of NRCS 515, Waste Storage Facility Technical Standard.
 - Install according to NRCS Wisconsin Construction Specification 202, Polyethylene Geomembrane Lining.
- PPE liner specifications are as follows:
- Minimum thickness of 30 mils.
 - Design according to the criteria in Table 3 of NRCS 515, Waste Storage Facility Technical Standard.
 - Install according to NRCS Wisconsin Construction Specification 202, Polyethylene Geomembrane Lining.
- All liners must extend above the permanent pool up to the elevation of the 2-year, 24-hour rainfall event.
 - Any pond fountain or aeration device shall comply with conditions of DWR Technical Standard 1001 Section V.B.3.k.



NOTES:

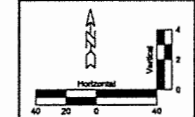
1. ROAD STATIONING IS TO BACK OF CURVE.

2. 816.14 = PROPOSED GRADE

3. SIDEWALKS ARE INCLUDED IN CULVERT LENGTH

LEGEND

Proposed Storm Sewer	Proposed Storm Sewer
Proposed Sanitary Sewer	Proposed Sanitary Sewer
Proposed Water Main	Proposed Water Main
Proposed Gas Line	Proposed Gas Line
Proposed Electric Line	Proposed Electric Line
Proposed Telephone Line	Proposed Telephone Line
Proposed Cable TV Line	Proposed Cable TV Line
Proposed Fire Hydrant	Proposed Fire Hydrant
Proposed Valve	Proposed Valve
Proposed Manhole	Proposed Manhole
Proposed Catch Basin	Proposed Catch Basin
Proposed Plug	Proposed Plug



Finale

Village of Greenville, Outagamie County, WI

For: Apex Properties, LLC

IMPROVEMENT PLANS

Curb Return Profiles

Red Cardinal Drive

DAVEL ENGINEERING & ENVIRONMENTAL, INC.

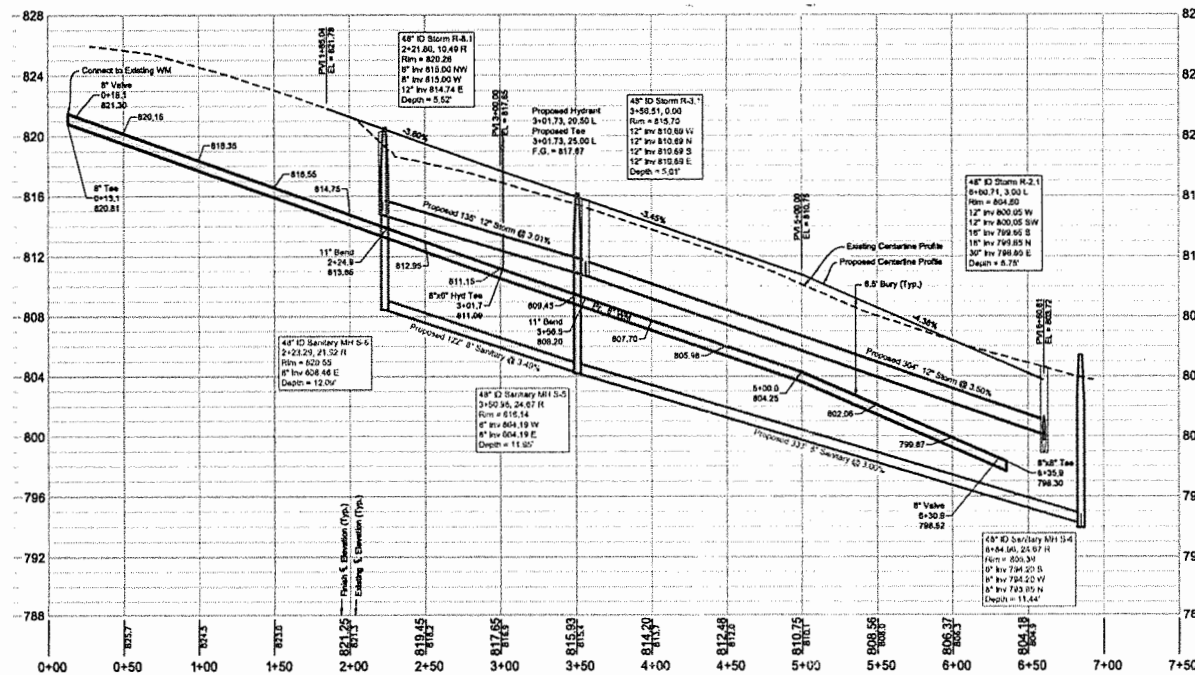
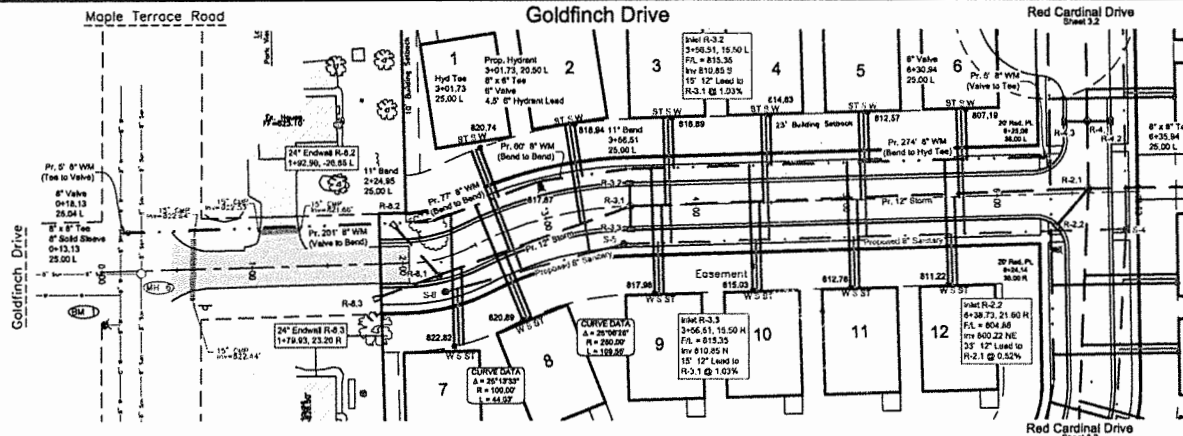
Civil Engineers and Land Surveyors

1111 E. Main Street, Suite 200

PO Box 281, 1880, WI 54984-0281

www.daveleng.com

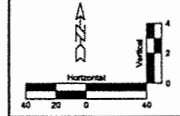
Filename:	7726Prof - Curb.dwg
Date:	April 16, 2024
Engineer:	Jennifer
Drawn by:	2.7



NOTES:
 1. FOCUS STATIONING IS TO BACK OF CURB.
 2. 814.15 = PROPOSED GRADE
 3. ENDWALLS ARE INCLUDED IN CULVERT LENGTH

LEGEND

Proposed Storm Sewer	Proposed Storm Sewer
Proposed Sanitary Sewer	Proposed Sanitary Sewer
Proposed Water Main	Proposed Water Main
Proposed Gas Line	Proposed Gas Line
Proposed Electric Line	Proposed Electric Line
Proposed Storm Drain	Proposed Storm Drain
Proposed Storm Inlet	Proposed Storm Inlet
Proposed Catch Basin	Proposed Catch Basin
Proposed Manhole	Proposed Manhole
Proposed Valve	Proposed Valve
Proposed Tee	Proposed Tee
Proposed Bend	Proposed Bend
Proposed Plug	Proposed Plug



Finale
 Village of Greenville, Outagamie County, WI
 For: Apex Properties, LLC
IMPROVEMENT PLANS
 Goldfinch Drive
 Sta 0+00 to 6+93.62

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
 Civil Engineers and Land Surveyors
 1141 Prospect Street
 PO Box 10000, Lincoln, NE 68506
 www.davel-inc.com
 April 17, 2024
 7728Prof1.dwg
 JRD
 Jennifer

