

# 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



August 1, 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, August 7, 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.**

Melissa Starr  
Accounting Clerk

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## **AGENDA For REGULAR MEETING Wednesday August 7, 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 (07/03/2024)

**TREASURER'S REPORT:** ● Approve Voucher List  
● Discussion / Review of Bank & Budget Statements

**PRESIDENT'S REPORT:** ● Discussion/Action

**MANAGER'S REPORT:** ● Review/Approve Monthly Operational Summary  
● I & I Report  
● Review/Approve Quote to Replace Ethernet Network Switches

**ENGINEER'S REPORT:** ●

**OLD BUSINESS:** ●

**NEW BUSINESS:** ● Discuss/Act on Sewer Extension Request – Scholar Ridge Estates (Clayton)

#### Design Criteria:

Flow: 0.034 MGD Avg    Acres: 21

Flow: 0.134 MGD Peak    Population Served: 1,344

BOD: 295.68 lbs./day

### **ADJOURNMENT:**

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## REGULAR MEETING MINUTES

July 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	Jason Van Eperen	Greg Ziegler
Mark Strobel	Ron Wolff Jr.	Melissa Starr (MCO)
Mike Van Dyke (via Teams)	Dale Youngquist	Brandon Kaufman (MCO)

Guests: Ethan Lang (McMahon)

### **APPROVAL OF AGENDA:**

A motion was made by Greg Ziegler to approve the Agenda, 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 June 5, 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 Greg Ziegler to approve the Voucher List as presented; second by Mike Van Dyke. *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 Greg Ziegler to approve the Bank & Budget Statements; second by Mike Van Dyke. *Motion Carried.*

### **PRESIDENT'S REPORT:**

No items to report

**MANAGER'S REPORT:**

**Operational Summary**

Manager Kaufman discussed his written report and provided additional information on: The plant experienced a higher ammonia level for June, waiting to hear from DNR, but will treat it as an exceedance for now. The plant received 3.59" of precipitation from 6/19/24-6/24/24, which caused influent flow to increase, but we were able to maintain normal operations throughout the plant. An in-depth Inflow & Infiltration (I&I) report will be provided for the August meeting. Honeycomb media in the aeration basin is getting low. Will reach out to Viola about getting more media due to higher loadings. Phosphate analyzer is working really well. It has cut chemical usage in half, so Manager Kaufman is optimistic there will be a notable cost savings moving forward. WE Energies was performing routine leak monitoring and discovered a small gas leak on the utility side of the meter located by the old headworks building. WE repaired the leak the next day without interruption to our service. After discussion, a motion was made by Greg Ziegler to approve the Operational Summary; second by Mike Van Dyke. *Motion Carried.*

**NR101 Fees**

Manager Kaufman explained that each year the DNR sends an invoice for charges assessed to the plant for discharging into the lake. He explained the turnaround time for getting the payment to the DNR is very short, and was looking to the Commission on whether the fees can be added to the preauthorized payment list in order to ensure timely payment. After discussion, a motion was made by Greg Ziegler to approve adding the NR101 Fees to the preauthorized payables list; seconded by Mike Van Dyke. *Motion Carried.*

**ENGINEER'S REPORT:**

**Fine Screen Engineering**

No items to report

**OLD BUSINESS**

N/A

**NEW BUSINESS**

N/A

**ADJOURNMENT**

A motion was made by Greg Ziegler, second by Jason Van Eperen to Adjourn. *Motion Carried.*

Meeting adjourned at 4:31 pm.

**ATTEST**

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Greg Ziegler, Secretary

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Melissa Starr, Accounting Clerk

**FOX WEST REGIONAL  
SEWERAGE COMMISSION  
For Approval on: 08/07/2024**

**PREAUTHORIZED JULY PAYABLES**

CHECK NO	DATE		Amount
38434-38435	07/09/24	Plant Payroll - Net (#24-14)	\$ 3,916.07
WDC070924	07/09/24	Wisconsin Def Comp (#24-14)	\$ 50.00
	07/09/24	FSA WITHHOLDING (#24-14)	\$ 86.66
38436	07/22/24	Diggers Hotline-Prepayment	\$ 4.15
38437	07/22/24	Spectrum/Charter Communications (\$114.99 Internet/\$113.83Telephone)	\$ 228.82
38438	07/22/24	Town of Grand Chute (Life & Dental Insurance, FSA fee)	\$ 639.62
38439	07/22/24	VISA (\$141.95-Maint.Tools/\$98.88-Fuel/\$23.17 -Maint. Electrical/ \$7.48-Postage)	\$ 271.48
38440	07/22/24	WE Energies (\$153.13-Heat/\$61,668.74- Electric)	\$ 61,821.87
38441-38442	07/23/24	Plant Payroll - Net (#24-15)	\$ 3,252.19
WDC072324	07/23/24	Wisconsin Def Comp (#24-15)	\$ 50.00
		FSA WITHHOLDING (#24-15)	\$ 86.66

WGH072424	07/24/24	Dept of Employee Trust (AUG HEALTH INVOICE)	\$ 4,700.64
EFTPS073124	07/31/24	Federal Payroll Taxes (JULY Federal Tax Withholding)	\$ 2,525.82
WDR073124	07/31/24	Wisconsin Dept Revenue (JULY State Tax Withholding)	\$ 430.09
WRS073124	07/31/24	Dept of Employee Trust (JUNE PENSION)	\$ 1,479.09
			<b><u>\$79,543.16</u></b>

FOX WEST REGIONAL  
SEWERAGE COMMISSION -

MONTHLY PAYABLES

VOUCHER LIST - 08/07/2024

PAGE 2

CHECK NO	DATE		Amount
38443-38449	08/07/24	Commissioner's Wages (Net) Commission Wages (July Mtg)	\$1,239.74
38450	08/07/24	Aquachem Ferric Sulfate	\$41,280.86
38451	08/07/24	Atlas Copco PM on HSI Blowers, Discharge Boots on HSI Blowers	\$14,976.43
38452	08/07/24	Badger Labs Lab Testing	\$2,121.20
38453	08/07/24	Brandon Kaufman Backup Phone Modem Battery, Relay for Belt Filter Press #2, Fused for Submersible Sludge Mixers	\$72.27
38454	08/07/24	Crane Engineering Seal on Spare Jet Pump Rotating Assembly	\$3,571.43
38455	08/07/24	Faith Technologies Troubleshoot Alarm-APC Automation	\$368.00
38456	08/07/24	Fox Crossing Sanitary Sewer & Water Main Relay Special Assessment	\$11,846.00
38457	08/07/24	GFL Grit Haul & Recycling Services	\$2,846.81
38458	08/07/24	Grainger BFP #2, Belts & Valves, Oil for Primary/Secondary Clarifiers	\$2,420.20
38459	08/07/24	Heartland Business Systems On-Site Maintenance, Monthly Services	\$1,703.32
38460	08/07/24	Johnson Controls HVAC PM Work	\$6,650.00
38462	08/07/24	MCO Contract Services	\$60,135.25
38463	08/07/24	Milton Propane Propane	\$42.11
38464	08/07/24	North Central Labs (NCL) Lab Supplies; Pipets, Acids, BOD Nutrient, Ammonia Std	\$1,171.31
38465	08/07/24	Speedy Clean I&I Repair to Manhole between Service Bld & Thickener Bldg	\$1,975.00
38466	08/07/24	Splendid Cleaning Services Monthly Cleaning Services	\$379.00
38467	08/07/24	Steinacker Farms Sludge Management	\$19,508.28
38468	08/07/24	Tri-County Overhead Door Service New Headworks Near Rag Dumpster	\$287.50
38469	08/07/24	UniFirst Employee Uniforms, Mats, Bagged & Terry Wipers	\$820.80
38470	08/07/24	USA BlueBook Dry Steel Case	\$42.32
38471	08/07/24	Village of Greenville Waste Disposal Permit	\$465.00

**\$173,922.83**

CHECK NO	DATE		Amount
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**EQUIPMENT REPLACEMENT**

	<b>Total Equipment Replacement</b>	<u>\$0.00</u>
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**DEPRECIATION EXPENSE**

38461	08/07/24	McMahon WWTF Improvements Project	\$3,960.00
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	<b>Total Depreciation</b>	<u>\$3,960.00</u>
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Preauthorized JULY Expenses	\$79,543.16
Monthly Payables	\$173,922.83
Equipment Replacement Expense	\$0.00
Depreciation Expense	\$3,960.00
	<u>\$257,425.99</u>

Disbursements Not Approved:

Approved by Commission:

\_\_\_\_\_  
Mark Strobel

\_\_\_\_\_  
Date

**2024 INTEREST EARNINGS**  
June 30, 2024

gl #s	1002	1034	1036	1050	2186b	2131	2121	2152c	2141	2152a	
	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	TOTAL
	0.05%	0.01%	0.01%	1.00%	5.16%	5.25%	5.39%	5.42%	5.27%	5.42%	
	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	13.68	-	-	-	5,548.05	3,096.41	3,568.78	5,129.61	1,162.32	7,335.19	\$25,854.04
May	14.72	-	-	-	5,756.86	3,393.31	1,691.97	3,518.27	1,102.89	7,615.95	\$23,093.97
Jun	17.74	0.01	0.02	1.28	5,595.12	3,419.54	2,040.97	3,452.20	952.27	7,467.52	\$22,946.67
Jul											\$0.00
Aug											\$0.00
Sep											\$0.00
Oct											\$0.00
Nov											\$0.00
Dec											\$0.00
TOTALS:	\$103.16	\$0.02	\$0.04	\$3.07	\$33,588.36	\$18,838.13	\$18,670.97	\$24,733.27	\$6,186.60	\$44,536.39	\$146,660.01
		\$106.29			\$33,588.36	\$18,838.13	\$43,404.24		\$50,722.99		
acct #s	-17	-87	-87	-5400	-4959	-92	-23	-1	-11	-2	
bal \$s	\$577,275.83	\$506.84	\$502.17	\$7.03	\$1,349,306.03	\$829,780.56	\$509,970.32	\$780,173.79	\$220,913.52	\$1,687,306.31	\$5,955,742.40

**ACCOUNT LISTING**  
6/30/2024

American Nat'l Bank	Operations - Checking	\$577,275.83	0.05%
American Nat'l Bank	Operations - WH Deposit	\$506.84	0.01%
American Nat'l Bank	Operations - WH Deposit	\$502.17	0.01%
Community 1st CU	Operations - Savings	\$7.03	1.00%
Community 1st CU	Future Capital - CD	\$1,349,306.03	5.16%
American Nat'l Bank	Replacement - Money Market	\$829,780.56	5.25%
American Nat'l Bank	Bond Redemption - Money Market	\$509,970.32	5.39%
LGIP	Bond Redemption - LGIP	\$780,173.79	5.42%
American Nat'l Bank	Depreciation - Money Market	\$220,913.52	5.27%
LGIP	Depreciation - LGIP	\$1,687,306.31	5.42%
	<b>Total Funds:</b>	<b>\$5,955,742.40</b>	

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

**CHECKING ACCOUNT**

<b>Beginning Balance</b>			<b>\$547,928.78</b>
<b>Receipts:</b>			
User Fees Received		\$364,549.45	
Vactor-Waste Fees Received		-	
Lab/MISC Fees Received			
Septic Haulers Fees		19,164.28	
Interest Earned @ 0.05% / ANB		17.74	
<b>Transfers from:</b>			
Equipment Replacement		3,098.60	
Bond Redemption			
Depreciation		30,302.00	
<b>Total Receipts:</b>		<u>\$417,132.07</u>	
<b>Total Available</b>			<b>\$965,060.85</b>
<b>Disbursements:</b>			
Commissioners Wages (net)		\$1,239.68	
Plant Personnel Wages (net)		3,583.76	
Plant Personnel Wages (net)		3,355.48	
Plant Personnel Wages (net)		-	
Gen. Operating Expense		\$254,325.56	
Equipment Replacement		-	
Depreciation		6,431.00	
<b>Transfers To:</b>			
Misc ledger adjustment			
Equipment Replacement	<i>MAY Inv. - JUNE receipts</i>	39,170.87	
Bond Redemption	<i>MAY Inv. - JUNE receipts</i>	87,418.44	
Depreciation			
<b>Total Disbursements:</b>		<u>\$395,524.79</u>	
<b>TOTAL CHECKING - Per General Ledger</b>			<u><b>\$569,536.06</b></u>
		checks outstanding:	\$7,739.77
		actual checkbook balance at month-end- Per Bank Statement:	\$577,275.83

**COMM FIRST CU SAVINGS ACCOUNT**

Beginning Balance		\$723.39	
Interest Earned @ 1.00% / COM 1st		1.28	
Minimum Balance Deposit		5.00	
Transfer to LGIP Bond Red		(702.64)	
Wire Transfer Fee		(20.00)	
<b>Total Savings Acct Balance</b>			<u><b>\$7.03</b></u>

**EQUIPMENT REPLACEMENT ACCOUNT**

Beginning Balance		\$790,288.75	
Interest Earned @ 5.25% / ANB		3,419.54	
Transfer from Checking		39,170.87	
Transfer to Checking		(3,098.60)	
<b>Total Equip Replacement Acct Balance</b>			<u><b>\$829,780.56</b></u>

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

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BANK STATEMENT-6/30/24  
PAGE 2

**FUTURE CAPITAL ACCOUNT**

Beginning Balance	\$1,343,710.91	
Interest Earned @ 5.16% / COM 1st - CD	5,595.12	
<b>TOTAL FUTURE CAPITAL</b>		<b>\$1,349,306.03</b>

**BOND REDEMPTION ACCOUNTS**

Beginning Balance - Money Market Account	\$412,587.15	
Interest Earned @ 5.39% / ANB	2,040.97	
Transfer from Checking	95,342.20	
Transfer to STATE WIS - CWF loan payment	-	
Wire Transfer Fee	-	
<b>Total Bond Redemption MM Acct Balance</b>	<b>\$509,970.32</b>	

Beginning Balance - LGIP Account	\$776,018.95	
Interest Earned @ 5.42% / LGIP	\$3,452.20	
Deposit	702.64	
Withdrawal (STATE WIS - CWF loan payment)	-	

Total Bond Redemption LGIP Acct Balance	\$780,173.79	
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<b>TOTAL BOND REDEMPTION</b>		<b>\$1,290,144.11</b>
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**DEPRECIATION ACCOUNTS**

Beginning Balance - Money Market Account	\$250,263.25	
Interest Earned @ 5.27% / ANB	952.27	
Transfer from Checking	-	
Transfer to Checking	(30,302.00)	
<b>Total Depreciation Acct Balance</b>	<b>\$220,913.52</b>	

Beginning Balance - LGIP Account	\$1,679,838.79	
Interest Earned @ 5.42%	7,467.52	
<b>Total Depreciation LGIP Acct Balance</b>	<b>\$1,687,306.31</b>	

<b>TOTAL DEPRECIATION ACCOUNT</b>		<b>\$1,908,219.83</b>
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**SUMMARY**

ANB CHECKING ACCOUNT	\$577,275.83
COMM FIRST CU SAVINGS ACCOUNT	\$7.03
EQUIPMENT REPLACEMENT ACCOUNT	829,780.56
FUTURE CAPITAL CD ACCOUNT	\$1,349,306.03
BOND REDEMPTION ACCOUNTS	1,290,144.11
DEPRECIATION ACCOUNTS	1,908,219.83
PETTY CASH & WASTEHAULER DEPOSITS	\$1,209.01
<b>TOTAL FUNDS AVAILABLE</b>	<b>\$5,955,942.40</b>

**Fox West Regional Sewerage Commission**  
**Income Statement with Previous Year Comparison**  
**June 30, 2024**

		<u>June 24</u>	<u>June 23</u>	<u>Jan - June 24</u>	<u>Jan - June 23</u>	<u>Y-T-D \$ Change</u>
<b>Operations &amp; Maintenance Income</b>						
	Grand Chute	97,598.96	80,104.99	747,439.84	513,724.75	233,715.09
	Clayton	4,220.15	3,214.41	26,747.40	22,572.26	4,175.14
	Fox Crossing	70,493.08	44,113.93	327,814.21	372,962.66	-45,148.45
	Greenville	38,696.19	33,287.15	235,368.39	219,352.34	16,016.05
	<b>Total Operation/Maint Income</b>	<b>\$211,008.38</b>	<b>\$160,720.48</b>	<b>\$1,337,369.84</b>	<b>\$1,128,612.01</b>	<b>\$208,757.83</b>
<b>Operations &amp; Maintenance Expenses</b>						
<i>Wages &amp; Benefits</i>	Commissioner Pay	1,418.15	1,222.70	8,508.90	7,531.65	977.25
	Employee Pay	10,718.00	15,663.24	114,509.65	100,378.90	14,130.75
	Employee Benefits	5,831.34	8,782.10	43,948.90	47,241.37	-3,292.47
<i>Utilities</i>	Electric	61,183.69	61,657.26	328,610.77	329,046.61	-435.84
	Natural Gas & Water	400.53	875.49	31,678.15	42,164.47	-10,486.32
<i>Chemicals</i>	Ferric Chloride	20,643.01	32,039.22	169,026.48	142,040.85	26,985.63
	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
<i>General Operations</i>	Contract Operations	60,135.25	47,035.80	357,755.02	282,214.80	75,540.22
	Rugs, Linens, Uniforms	409.15	481.28	2,858.79	3,071.28	-212.49
	Grit & Refuse Hauling	1,743.26	1,685.23	12,453.51	12,410.76	42.75
	Other Operations	483.27	444.40	3,900.74	5,794.11	-1,893.37
<i>Sludge</i>	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
<i>Plant Maint</i>	Maintenance of Operations	12,970.94	8,808.20	65,851.69	27,804.96	38,046.73
	Other Plant Maintenance	9,826.91	16,944.15	77,204.78	55,060.34	22,144.44
<i>Lab</i>	Lab Operations	4,966.31	2,174.17	22,938.61	13,937.12	9,001.49
	WPDES Compliance Monitor	0.00	0.00	0.00	0.00	0.00
<i>Administrative &amp; General Expenses</i>	Insurance & Legal	4,353.00	5,259.00	57,668.00	61,845.00	-4,177.00
	Annual Audit	0.00	0.00	9,660.00	9,425.00	235.00
	Office, Postage, Phone, etc	1,608.93	2,033.62	7,918.41	9,472.84	-1,554.43
	DNR Environment Fees	0.00	0.00	34,453.16	34,373.35	79.81
	Other General/Admin	20.00	108.33	2,877.88	2,569.58	308.30
	<b>Total Operating Expenses</b>	<b>\$196,711.74</b>	<b>\$205,214.19</b>	<b>\$1,362,163.44</b>	<b>\$1,186,382.99</b>	<b>\$175,780.45</b>
	<b>Gross Income (Loss)</b>	<b>\$14,296.64</b>	<b>(\$44,493.71)</b>	<b>(\$24,793.60)</b>	<b>(\$57,770.98)</b>	<b>\$32,977.38</b>
<b>Other Operations Income</b>						
<i>Other Income</i>	Interest Income	22,946.67	13,584.82	146,660.01	66,082.67	80,577.34
	Waste Hauler Income	16,145.17	17,359.26	95,776.76	100,606.14	-4,829.38
	Lab Testing/Vac-Waste/Misc	1,636.00	1,786.00	19,467.64	16,969.41	2,498.23
	<b>Other Operations Income</b>	<b>\$40,727.84</b>	<b>\$32,730.08</b>	<b>\$261,904.41</b>	<b>\$183,658.22</b>	<b>\$78,246.19</b>
	<b>Operating Fund Income (Loss)</b>	<b>\$55,024.48</b>	<b>(\$11,763.63)</b>	<b>\$237,110.81</b>	<b>\$125,887.24</b>	<b>\$111,223.57</b>
<b>Replacement, Debt, Depreciation</b>						
<i>Repl.</i>	Repl. Income from Users	39,171.13	34,337.66	235,026.01	206,026.01	29,000.00
	Repl. Fund Expenses	3,271.53	20,036.64	129,667.61	36,325.39	93,342.22
<i>Debt</i>	Debt Service from Users	87,418.93	87,444.91	524,512.11	549,080.65	-24,568.54
	Debt Service Interest	10,907.65	12,922.09	-4,028.88	-2,599.57	-1,429.31
<i>Depr.</i>	Depr. Income from Users	0.00	0.00	0.00	0.00	0.00
	Depr. Fund Expenses	3,960.00	24,081.00	35,141.00	24,081.00	11,060.00
	<b>Income (Loss) for Replacement, Debt, Depreciation</b>	<b>\$108,450.88</b>	<b>\$64,742.84</b>	<b>\$598,758.39</b>	<b>\$697,299.84</b>	<b>(\$98,541.45)</b>
<b>Reconciliation Discrepancies / Audit GASB / Plant Depreciation</b>						
		0.00	0.00	0.00	0.00	0.00
	<b>Net Income (Loss)</b>	<b>\$163,475.36</b>	<b>\$52,979.21</b>	<b>\$835,869.20</b>	<b>\$823,187.08</b>	<b>\$12,682.12</b>

**Fox West Regional Sewerage Commission**  
**Balance Sheet Summary with Previous Year Comparison**  
**As of June 30, 2024**

	<u>June 30, 24</u>	<u>June 30, 23</u>	<u>\$ Change</u>	<u>% Change</u>
<b>ASSETS</b>				
<b><u>Current Assets</u></b>				
<b><u>Cash &amp; Investments</u></b>				
Checking-American Nat'l	569,536.06	730,304.76	-160,768.70	-22.01%
Cash-Wastehauler's Deposits	1,009.01	1,008.89	0.12	0.01%
Petty Cash	195.00	200.00	-5.00	-2.5%
Savings-Comm 1st	7.03	694.05	-687.02	-98.99%
Bond Redemption - Money Market & CD's	1,290,144.11	1,120,294.94	169,849.17	15.16%
Equipment Replacement - Money Market & CD's	829,780.56	566,741.61	263,038.95	46.41%
Depreciation Fund - Money Market & CD's	1,908,219.83	1,782,429.54	125,790.29	7.06%
Future Capital (CD)	1,349,306.03	1,290,211.52	59,094.51	4.58%
<b>Total Cash &amp; Investments</b>	<b>5,948,197.63</b>	<b>5,491,885.31</b>	<b>456,312.32</b>	<b>8.31%</b>
<b><u>Other Current Assets</u></b>				
Accounts Receivable	360,391.61	303,532.31	56,859.30	18.73%
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%
<b>Total Other Current Assets</b>	<b>604,114.61</b>	<b>665,007.31</b>	<b>-60,892.70</b>	<b>-9.16%</b>
<b>Total Current Assets</b>	<b>6,552,312.24</b>	<b>6,156,892.62</b>	<b>395,419.62</b>	<b>6.42%</b>
<b><u>Fixed Assets</u></b>				
Land/Easements/Land Improvements	590,977.48	590,977.48	0.00	-26.15%
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%
<b>Total Fixed Assets</b>	<b>20,738,489.37</b>	<b>22,536,557.03</b>	<b>-1,798,067.66</b>	<b>-7.98%</b>
<b>TOTAL ASSETS</b>	<b><u>27,290,801.61</u></b>	<b><u>28,693,449.65</u></b>	<b><u>-1,402,648.04</u></b>	<b><u>-4.89%</u></b>
<b>LIABILITIES &amp; EQUITY</b>				
<b><u>Liabilities</u></b>				
<b><u>Current Liabilities</u></b>				
Accounts Payable	117,714.44	85,870.01	31,844.43	0.0%
Payroll Liabilities	44,428.61	43,869.58	559.03	2.91%
Pension Liability	185,861.00	285,734.00	-99,873.00	-34.9%
Customer Deposits	1,011.42	1,011.42	0.00	0%
Accrued Interest Expense & Other Liab	21,672.55	26,472.43	-4,799.88	-18.13%
<b>Total Current Liabilities</b>	<b>370,688.02</b>	<b>442,957.44</b>	<b>-72,269.42</b>	<b>-16.32%</b>
<b><u>Long Term Liabilities</u></b>				
CWF-INTERCEPTOR	0.00	0.00	0.00	0.0%
CWF-2009 Upgrade	4,828,455.82	5,722,729.06	-894,273.24	-15.63%
<b>Total Long Term Liabilities</b>	<b>4,828,455.82</b>	<b>5,722,729.06</b>	<b>-894,273.24</b>	<b>-15.63%</b>
<b>Total Liabilities</b>	<b>5,199,143.84</b>	<b>6,165,686.50</b>	<b>-966,542.66</b>	<b>-14.31%</b>
<b><u>Equity</u></b>				
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	835,869.20	823,187.08	12,682.12	-44.00%
<b>Total Equity</b>	<b>22,091,657.77</b>	<b>22,527,763.15</b>	<b>-436,105.38</b>	<b>-1.94%</b>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b><u>27,290,801.61</u></b>	<b><u>28,693,449.65</u></b>	<b><u>-1,402,648.04</u></b>	<b><u>-5.08%</u></b>

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

Budget Through 6/30/2024

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	58.33% JULY	YTD TOTAL	BDGT THRU JUNE (6/30/24)	(OVER)/UNDER BUDGET	% OF BUDGET
<b>USER CHARGES:</b>													
OPERATION AND MAINT	\$2,135,572.00	\$177,964.33	\$155,050.69	\$203,258.53	\$228,062.11	\$302,029.99	\$237,960.14	\$211,008.38		\$1,337,369.84	\$1,067,786.00	(\$269,583.84)	62.62%
EQUIPMENT REPLACEMENT	470,052.00	39,171.00	39,171.00	\$39,171.00	\$39,171.00	\$39,171.01	\$39,170.87	\$39,171.13		235,026.01	\$235,026.00	(\$0.01)	50.00%
BOND REDEMPTION	1,049,024.00	87,418.67	87,418.67	87,418.69	87,418.88	87,418.70	87,418.44	87,418.93		524,512.11	\$524,512.00	(\$0.11)	50.00%
DEPRECIATION	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	\$0.00	\$0.00	0.00%
<b>TOTAL BUDGETED INCOME</b>	<b>\$3,654,648.00</b>	<b>\$304,554.00</b>	<b>\$281,640.36</b>	<b>\$329,848.22</b>	<b>\$354,651.79</b>	<b>\$428,619.70</b>	<b>\$364,549.45</b>	<b>\$337,598.44</b>	<b>\$0.00</b>	<b>\$2,096,907.96</b>	<b>\$1,827,324.00</b>	<b>(\$269,583.96)</b>	<b>57.36%</b>
<b>CONTINGENCY FUNDING:</b>													
INTEREST INCOME	\$161,820.00	\$13,485.00	\$24,611.75	\$23,967.00	\$26,186.58	\$25,854.04	\$23,093.97	\$22,946.67		\$146,660.01	\$80,910.00	(\$65,750.01)	90.63%
WASTEHAULER INCOME	202,500.00	16,875.00	13,192.69	14,413.65	15,519.56	18,111.41	18,394.28	16,145.17		95,776.76	\$101,250.00	\$5,473.24	47.30%
LAB & MISC. INCOME	34,285.00	2,857.08	10,634.64	1,559.00	2,110.00	1,713.00	1,815.00	1,636.00		19,467.64	\$17,142.50	(\$2,325.14)	56.78%
<b>TOTAL CONT FUNDING</b>	<b>\$398,605.00</b>	<b>\$33,217.08</b>	<b>\$48,439.08</b>	<b>\$39,939.65</b>	<b>\$43,816.14</b>	<b>\$45,678.45</b>	<b>\$43,303.25</b>	<b>\$40,727.84</b>	<b>\$0.00</b>	<b>\$261,904.41</b>	<b>\$199,302.50</b>	<b>(\$62,601.91)</b>	<b>65.71%</b>
<b>BUDGETED SURPLUS</b>	<b>\$0.00</b>	<b>\$0.00</b>											
<b>TOTAL BUDGET</b>	<b>\$4,053,253.00</b>	<b>\$337,771.08</b>	<b>\$330,079.44</b>	<b>\$369,787.87</b>	<b>\$398,487.93</b>	<b>\$474,298.15</b>	<b>\$407,852.70</b>	<b>\$378,326.28</b>	<b>\$0.00</b>	<b>\$2,358,812.37</b>	<b>\$2,026,626.50</b>	<b>(\$332,185.87)</b>	<b>58.20%</b>
<b>2024 BUDGETED O&amp;M EXPENSE</b>													
<b>WAGES &amp; BENEFITS:</b>													
COMMISSIONERS	\$16,236.00	\$1,353.00	\$1,418.15	\$1,418.15	\$1,418.15	\$1,418.15	\$1,418.15	\$1,418.15		\$8,508.90	\$8,118.00	(\$390.90)	52.41%
PLANT PERSONNEL	171,957.00	14,329.75	18,094.08	15,596.20	44,455.20	15,412.97	10,233.20	10,718.00		114,509.65	\$85,978.50	(\$28,531.15)	66.59%
EMPLOYEE BENEFITS	87,592.00	7,299.33	8,022.62	8,457.10	9,653.20	6,126.97	5,857.67	5,831.34		43,948.90	\$43,796.00	(\$152.90)	50.17%
<b>UTILITIES:</b>													
ELECTRIC POWER	671,135.00	55,927.92	50,365.81	51,536.10	52,340.83	52,927.05	60,257.29	61,183.69		328,610.77	\$335,567.50	\$6,956.73	48.96%
OTHER UTILITIES	59,360.00	4,946.67	3,762.07	11,500.02	4,565.74	3,986.12	7,463.67	400.53		31,678.15	\$29,680.00	(\$1,998.15)	53.37%
<b>CHEMICALS:</b>													
FERRIC CHLORIDE	290,000.00	24,166.67	37,900.32	25,050.79	12,304.97	42,120.95	31,006.44	20,643.01		169,026.48	\$145,000.00	(\$24,026.48)	58.28%
OTHER CHEMICALS	40,500.00	3,375.00	0.00	10,340.00	0.00	0.00	0.00	0.00		10,340.00	\$20,250.00	\$9,910.00	25.53%
<b>GENERAL OPERATIONS:</b>													
CONTRACT OPERATIONS	724,384.00	60,365.33	47,035.80	74,919.53	55,393.94	60,135.25	60,135.25	60,135.25		357,755.02	\$362,192.00	\$4,436.98	49.39%
OTHER OPERATING COSTS	46,315.00	3,859.58	4,100.69	3,036.34	2,418.67	2,409.88	3,846.83	2,635.68		18,448.09	\$23,157.50	\$4,709.41	39.83%
<b>SLUDGE HANDLING:</b>													
SLUDGE DISPOSAL	19,000.00	1,583.33	0.00	0.00	0.00	0.00	0.00	0.00		0.00	\$9,500.00	\$9,500.00	0.00%
OTHER SLUDGE EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	\$0.00	\$0.00	#DIV/0!
<b>PLANT MAINTENANCE:</b>													
PLANT MAINTENANCE/REPAIR	226,750.00	18,895.83	14,833.33	32,698.40	6,315.01	42,056.57	24,355.31	22,797.85		143,056.47	\$113,375.00	(\$29,681.47)	63.09%
<b>LABORATORY:</b>													
LAB OPERATIONS	10,555.00	879.58	3,271.97	3,291.31	2,281.54	6,588.14	2,328.32	4,966.31		22,727.59	\$5,277.50	(\$17,450.09)	215.33%
WPDES-COMPL. MONITORING	17,100.00	1,425.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	\$8,550.00	\$8,550.00	0.00%
<b>ADMINISTRATIVE/GENERAL:</b>													
INSURANCE/LEGAL	75,000.00	6,250.00	48,962.00	4,353.00	0.00	0.00	0.00	4,353.00		57,668.00	\$37,500.00	(\$20,168.00)	76.89%
ANNUAL AUDITING SERVICES	9,635.00	802.92	0.00	0.00	0.00	9,660.00	0.00	0.00		9,660.00	\$4,817.50	(\$4,842.50)	100.26%
OFFICE, POSTAGE, PHONE, ETC	12,550.00	1,045.83	574.73	3,618.05	648.85	952.57	515.28	1,608.93		7,918.41	\$6,275.00	(\$1,643.41)	63.09%
DNR ENVIRONMENTAL FEES	34,600.00	2,883.33	0.00	0.00	0.00	0.00	34,453.16	0.00		34,453.16	\$17,300.00	(\$17,153.16)	99.58%
GENERAL ADMIN. EXPENSE	21,508.00	1,792.33	218.15	225.00	2,389.73	25.00	0.00	20.00		2,877.88	\$10,754.00	\$7,876.12	13.38%
<b>TOTAL O&amp;M EXPENSES</b>	<b>\$2,534,177.00</b>	<b>\$211,181.42</b>	<b>\$238,559.72</b>	<b>\$246,039.99</b>	<b>\$194,185.83</b>	<b>\$243,819.62</b>	<b>\$241,870.57</b>	<b>\$196,711.74</b>	<b>\$0.00</b>	<b>\$1,361,187.47</b>	<b>\$1,267,088.50</b>	<b>(\$94,098.97)</b>	<b>53.71%</b>
<b>CONTINGENCY APPLIED</b>	<b>\$235,400.00</b>	<b>\$19,616.67</b>	<b>\$27,378.30</b>	<b>\$34,858.57</b>	<b>(\$16,995.59)</b>	<b>\$32,638.20</b>	<b>\$30,689.15</b>	<b>(\$14,469.68)</b>	<b>(\$211,181.42)</b>	<b>(\$1,172,989.53)</b>	<b>\$117,700.00</b>	<b>\$1,290,689.53</b>	<b>-498.30%</b>

# 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

July, 2024

### PLANT OPERATIONS

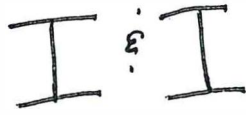
1. **PLANT PERFORMANCE** – The facility met all DNR permit limits in July.
2. **PRIMARY SLUDGE FERMENTER** – We have begun discharging approximately 20 gpm of primary sludge from the blend tank to the plant drain which leads back to the head works building. This trial was initiated in order to introduce fermented sludge back into the treatment process in the hope that we see an increase in the biological phosphorus removal (BPR). An increase in the BPR performance would allow us to further reduce the amount of chemical needed for phosphorus removal. Early results from this trial are promising, and I have requested that Crane Engineering supply us with a quote to install a small transfer pump as a more permanent solution for this application.
3. **BIOSOLIDS LAND APPLICATION** – Steinacker Farms began land application of the bio-solids on 7/22/24. They were able to haul ninety two loads and completed the application process on 7/26/24.
4. **SNDR#2 DIGESTER** – The digester remains offline while we wait for the jet pump rebuild parts to arrive.
5. **LAB TECHNICIAN** – MCO has hired an operator to fill the lab technician position. This operator comes to us with 20+ years of wastewater operational and laboratory experience.
6. **TOJAN 3000 PLUS UV SYSTEM** – A representative with Trojan Technologies was onsite to discuss the performance of the UV system.
7. **MANHOLE LEAK** – We found a leak in one of the manholes at the plant which was allowing approximately 3 gpm of groundwater to flow into the plant drain piping which leads back to the head works building. Speedy Clean was able to seal the leak (\$1,975.00) using a grout material.
8. **WASHING FINAL CLARIFIER WEIRS** – Fox West staff began hosing off the weirs on the final clarifiers on 7/24/24. This process removes the algae and solids which accumulate in the tanks. This process typically takes multiple days to complete.
9. **ATAD TRANSFER PUMPS PLUGGING** – Fox West staff have disassembled the ATAD transfer pumps three times in June to remove rag material which prevented the pump from operating properly.

### PRETREATMENT

1. **SEMI-ANNUAL REPORTS** – Each of our permitted industrial users is required to submit a semi-annual report to Fox West which summarizes the testing results from the first half of the year. Fox West staff is then responsible for submitting our semi-annual report to the DNR which outlines the performance of each of these industries.

## **EQUIP OPERATIONS**

1. **RAW INFLUENT PUMP #2** – Crane Engineering was onsite on 7/15/24 to finish the installation of the new RAW pump. There are five RAW pumps in total, and we are planning on having one pump rebuilt or replaced each year for the next four years.
  
2. **BELT FILTER PRESS #2** – The pillow block bearing failed on one of the lower rolls on the belt filter press. Fox West staff were able to install a rebuild kit and the unit was returned to service. A spare rebuild kit has been ordered (\$1,447.20).
  
3. **BELT FILTER PRESS #2** – One of the emergency stop switches was not working and needed to be replaced. A new switch was ordered (\$397.44) and Fox West staff installed it on 7/16/24.
  
4. **SLUDGE MIXER #3** – Sludge mixer #3 tripped out on 7/6/24. Fox West staff were able to troubleshoot the problem, and found that a fuse in the panel had blown. The fuse was replaced and the mixer was returned to service.
  
5. **HSI BLOWERS** – Atlas Copco was onsite on 7/2/24 to replace the rubber boots on the discharge piping for blowers #1 and #5 (\$7,122.73). The boots were cracked and showing signs of wear. These two blowers are the units that will remain as spares once the new blowers are installed in 2025.
  
6. **PHONE MODEM** – The phone modem experienced a power bump which interrupted phone service to the plant (including the emergency dialer phone line). Fox West staff discovered that the phone modem has two back-up batteries which had never been replaced. The batteries were replaced and the modem was reset. A work order has been created in the maintenance software to replace the batteries periodically.
  
7. **HVAC** – Johnson Controls was onsite on 7/9/24 to perform repairs to equipment which was discovered during their spring PM checks. They replaced the control board on the service building condenser unit. They also replaced the south fan on the ATAD building air handler (\$2,090.00).
  
8. **PAHOSPHATE ANALYZER** – A Hach technician was onsite to perform their quarterly preventative maintenance on the unit as part of the annual service contract.



## Introduction

As part of facilities planning for municipal wastewater treatment facilities, the grantee must demonstrate that contributing sewer systems are not, and will not be, subject to excessive infiltration or inflow. This brochure informs grantees and facility planners on how to determine whether excessive I/I exists, and how to certify that excessive I/I has been sufficiently reduced through sewer rehabilitation.

“Infiltration” occurs when groundwater enters a sewer system through broken pipes, defective pipe joints, or illegal connections of foundation drains. “Inflow” is surface runoff that enters a sewer system through manhole covers, exposed broken pipe and defective pipe joints, cross connections between storm sewers and sanitary sewers, and illegal connection of roof leaders, cellar drains, yard drains, or catch basins.

Virtually every sewer system will have some infiltration or inflow. Guidelines have been developed to help determine what amount of infiltration and inflow is considered “excessive.” To make this determination, infiltration and inflow must be evaluated separately as discussed below.

## Determination of Non-Excessive Infiltration

Based on Needs Survey data from 270 Standard Metropolitan Statistical Area Cities, the national average for dry weather flow is 120 gallons per capita per day (gpcd). This includes domestic wastewater flow, infiltration and nominal industrial and commercial flows. This average dry weather flow should be used as an indicator to determine the limit of non-excessive infiltration.

If the average daily flow per capita (excluding major industrial and commercial flows greater than 50,000 gpd each) is less than 120 gpcd (i.e., a 7-14 day average measured during periods of seasonal high groundwater), the amount of infiltration is considered non-excessive.

The 120 gpcd flow rate guideline has been incorporated into EPA’s final Construction Grant Regulations. These regulations provide that no further infiltration analysis work is required if the 120 gpcd guideline is not exceeded. If the average daily dry weather flow (DWF) exceeds 120 gpcd, the grantee may request special approval from the EPA Regional Administrator to proceed with project design without further infiltration studies. To receive such approval, the grantee must demonstrate that the increased flows due to infiltration can be cost-effectively treated, and that sufficient funding is available to pay for the local share of project construction and operating costs. In such cases, the incremental cost of treatment capacity over and above 120 gpcd is not eligible for EPA construction grant funding.

**GRAND CHUTE S.D. #2 (pop. 23,831)**

Date	Flow MG	Flow Gallons	McCain Flow	Net Flow
5/9/2023	3.3465	3,346,500	115,100	3,231,400
5/10/2023	3.2078	3,207,800	122,500	3,085,300
5/11/2023	3.1420	3,142,000	134,400	3,007,600
5/12/2023	2.9891	2,989,100	145,100	2,844,000
5/13/2023	2.9040	2,904,000		2,904,000
5/14/2023	2.7102	2,710,200	156,300	2,553,900
5/15/2023	2.8100	2,810,000	135,500	2,674,500
5/16/2023	2.7639	2,763,900	161,000	2,602,900
5/17/2023	2.6266	2,626,600	92,900	2,533,700
5/18/2023	2.5740	2,574,000	126,500	2,447,500
5/19/2023	2.5928	2,592,800	157,100	2,435,700
5/20/2023	2.5332	2,533,200		2,533,200
5/21/2023	2.4953	2,495,300	119,500	2,375,800
5/22/2023	2.5582	2,558,200	148,700	2,409,500
5/23/2023	2.4515	2,451,500	108,200	2,343,300
5/24/2023	2.4036	2,403,600	125,900	2,277,700

**Net Total Flow 42,260,000**

(Net total flow/Population/# of Days of Discharge)= Gallons per capita per day (gpcd)

(42,260,000/23,831/16)=

111 gpcd

**FOX CROSSING (WEST) pop. 11,722**

Date	Flow MG	Flow Gallons	Pierce Flow	Net Flow
5/9/2023	3.60	3,604,000	84,819	3,519,181
5/10/2023	3.35	3,354,000	114,461	3,239,539
5/11/2023	3.21	3,211,000	57,039	3,153,961
5/12/2023	2.96	2,961,000	80,745	2,880,255
5/13/2023	2.71	2,711,900	19,857	2,692,043
5/14/2023	2.57	2,568,300	12,356	2,555,944
5/15/2023	2.75	2,747,000	23,374	2,723,626
5/16/2023	2.66	2,657,700	110,829	2,546,871
5/17/2023	2.56	2,563,300	89,954	2,473,346
5/18/2023	2.45	2,450,100	142,854	2,307,246
5/19/2023	2.26	2,263,600	69,328	2,194,272
5/20/2023	2.17	2,171,500	20,266	2,151,234
5/21/2023	2.14	2,143,700	10,991	2,132,709
5/22/2023	2.27	2,269,100	21,430	2,247,670
5/23/2023	2.21	2,205,500	119,681	2,085,819
5/24/2023	2.051	2,051,000	29,760	2,021,240

**Net Total Flow 40,924,956**

(Net total flow/Population/# of Days of Discharge)= Gallons per capita per day (gpcd)

$(40,924,956/11,722/16)=$

218 gpcd

**GREENVILLE S.D.#1 (pop. 10,359)**

Date	Flow MG	Flow Gallons	Cintas Flow	Net Flow
5/9/2023	0.9785	978,500	67,256	911,244
5/10/2023	0.9006	900,600	62,744	837,856
5/11/2023	0.8981	898,100	67,100	831,000
5/12/2023	0.8521	852,100	71,448	780,652
5/13/2023	0.7512	751,200		751,200
5/14/2023	0.7397	739,700		739,700
5/15/2023	0.8603	860,300	65,718	794,582
5/16/2023	0.8427	842,700	61,868	780,832
5/17/2023	0.8207	820,700	63,586	757,114
5/18/2023	0.8312	831,200	62,770	768,430
5/19/2023	0.7839	783,900	66,756	717,144
5/20/2023	0.7109	710,900		710,900
5/21/2023	0.7223	722,300		722,300
5/22/2023	0.8212	821,200	73,136	748,064
5/23/2023	0.7732	773,200	68,850	704,350
5/24/2023	0.8235	823,500	66,634	756,866

**Net Total Flow 12,312,234**

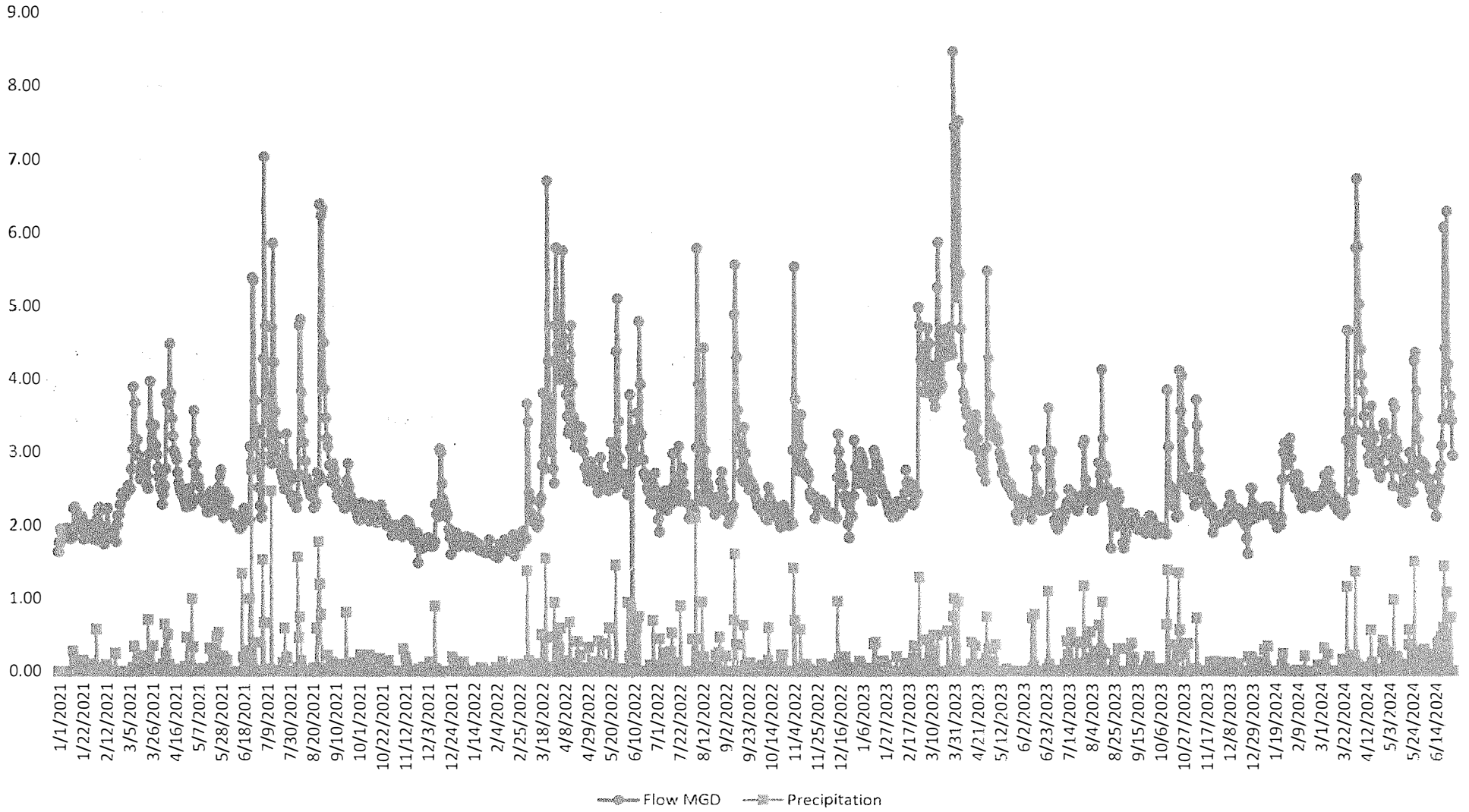
(Net total flow/Population/# of Days of Discharge)= Gallons per capita per day (gpcd)

$(12,312,234/10,359/16)=$

74 gpcd

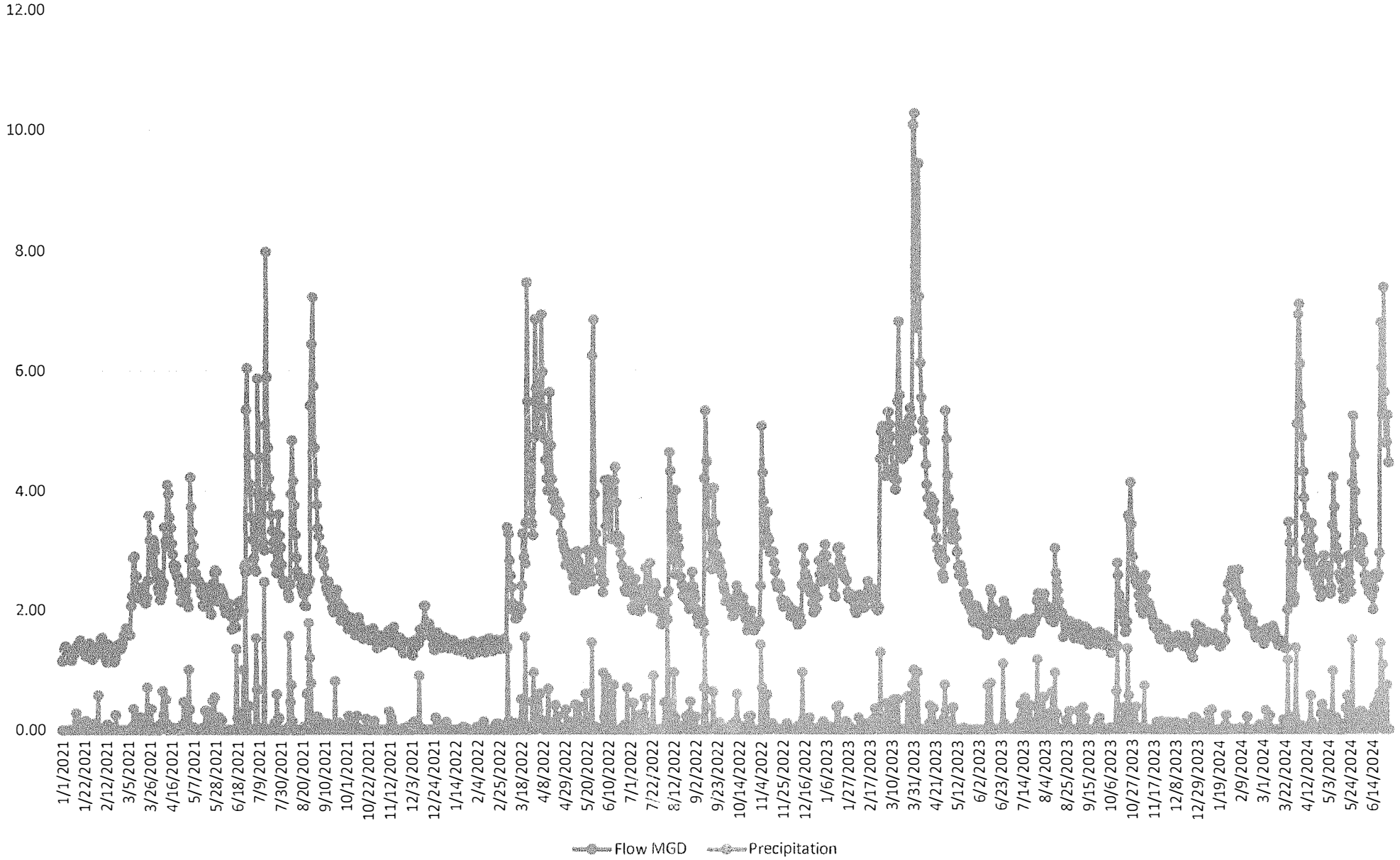


# GRAND CHUTE FLOW vs PRECIP



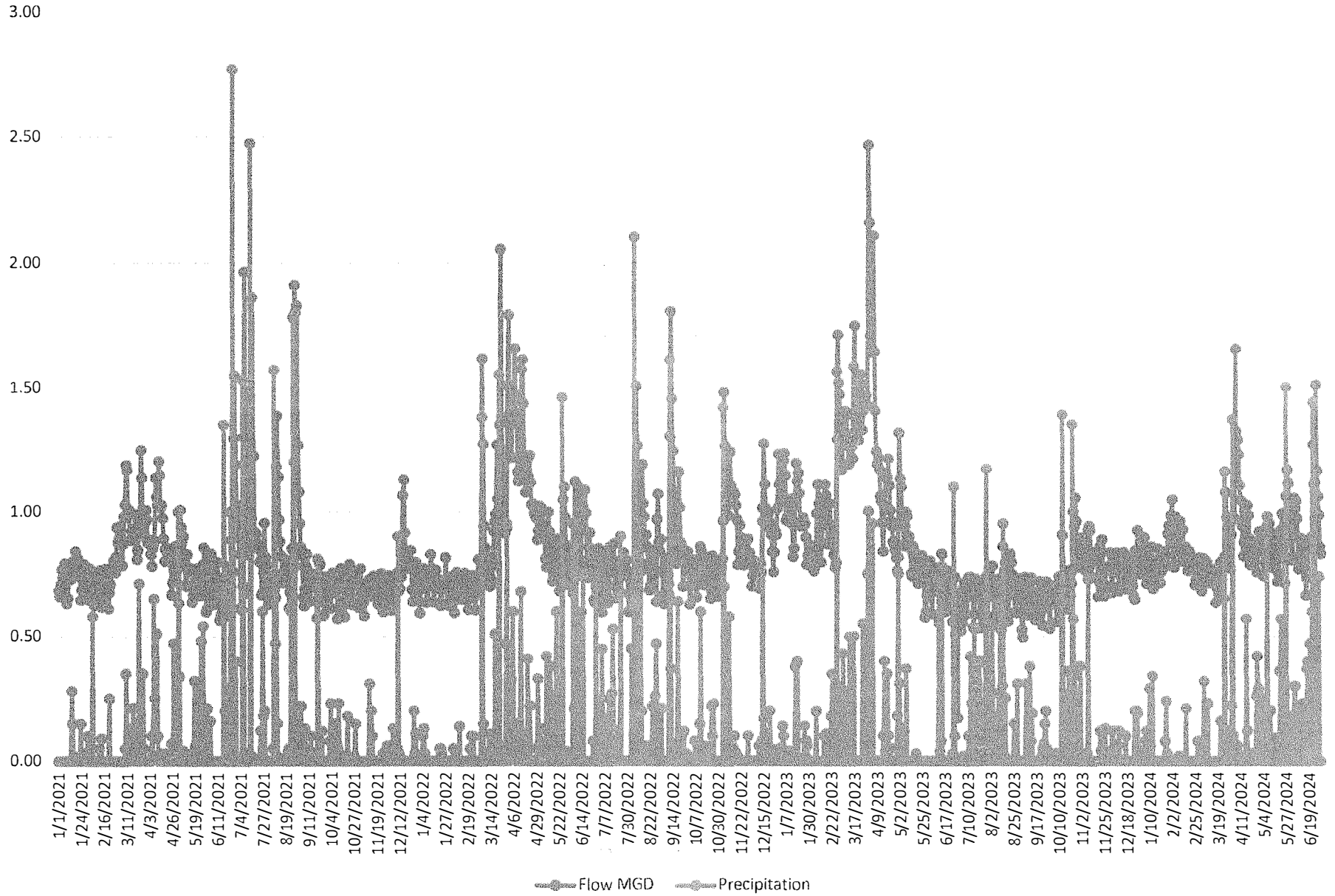


# FOX CROSSING FLOW vs PRECIP





# GREENVILLE FLOW vs PRECIP





# FOX WEST NETWORK SWITCH BACKUP OPTION 1

Brandon Kaufman  
Fox West  
bkaufman@mco-us.com

6.27.2024  
Neenah, Wisconsin  
Proposal #: 0010868 V1.0

### EXECUTIVE SUMMARY / BASIS OF PROPOSAL

Faith Technologies is pleased to offer the following proposal for providing a replacement option for the Headworks Stratix 8000 switch and a cold backup switch for the shelf at the Fox West facility. This proposal includes a total of (3) network switches and engineering time for setup and commissioning. This proposal does not include a complete replacement solution for all Stratix 8000 switches onsite.

### SCOPE OF WORK

1. Specify, procure, and setup a total of (3) network switches. This will include the following:
  - a. (2) switches will be provided in the Headworks location
  - b. (1) switch will be provided as a cold backup
  - c. (7) SFP- LC Multimode Fiber
2. Up to one site visit and 14 hours of commissioning time is included for an OT Engineer and Automation Engineer.
3. Simple installation and replace in kind is included in this scope of work.

Automation/Integration Solution <<Fixed>> ..... \$57,426

Pricing is valid for thirty (30) days from date on this proposal.

### EXCLUSIONS

1. Installation and wiring for new components are not included in this scope of work.
2. No additional components such as power supplies, circuit protection or complex mounting means are included in this scope of work.

### PROJECT ASSUMPTIONS

- A. It is assumed that a sufficient power supply and space is available for an additional redundant switch for the Headworks facility.
- B. All labor hours are estimated as first shift and regular time.
- C. The systems described in this proposal require Internet Protocol (IP) based communications. Cooperation and coordination with the facility's IT department will be required for the proposed integration implementations to be successful
- D. Any future upgrades of this process or machine control system including hardware, software, firmware, peripheral device or equipment, including Windows/OS updates should be discussed with Faith Technologies to minimize conflicts and potential hazards or system failure. Any action or inaction related to updates without consultation is at the owner's sole risk.
- E. Any items not explicated stated will be considered excluded from the scope of work and any changes or additions shall be considered out of scope
- F. Onsite startup/commissioning is included, up to 14 hours. Any additional time and expense will be managed by Change Order.

### GENERAL TERMS AND CONDITIONS

- A. Sales and all other tax is not included in the price.
  - a. If applicable, owner to supply tax exempt certificate at receipt of order.
- B. Freight charges are included in the price. All Freight is FOB Client Site, Prepaid and Billed.
- C. No live work permitted.
- D. Project schedule to be developed in collaboration with the Client.
- E. The commodity markets are currently experiencing considerable volatility. For that reason, Faith Technologies will require validation of any price proposal immediately before entering into a contract. Upon notification of interest to contract, Faith will verify price proposal in a timely fashion with the current market and notify the customer of any changes, at which time conditions to move forward can be discussed.
- F. Any changes to the scope of work or the materials used at client's request may be billable. Any work performed outside of the previously defined scope options shall be managed according to Change Order protocol.

- G. **Warranty:** Faith Technologies will provide warranty support for our installation and craftsmanship for a period of one year.
- H. By submission of its proposal, Faith Technologies, Inc. reserves the right to negotiate mutually acceptable contract terms, including review of any applicable Prime contract provisions, upon award of the work.
- I. Full balance of retainage payment, if applicable, shall be made within thirty (30) days of Substantial Completion, subject only to withholding for written documentation of incomplete Faith Technologies' work. Substantial completion shall be defined as project being complete to a point that the Client can occupy and/or utilize for its intended use.

**PAYMENT TERMS AND CONDITIONS**

- A. **Payment Terms:**
  - a. 35% upon PO
  - b. A progress billing mechanism will be utilized and billed monthly per the contract.
- B. All invoices will be due Net 30 days.

*COVID-19 has had a tremendous impact on industries across the. Although Faith Technologies remains hopeful the present initiatives will get things under control in short order, uncertainty exists, and more questions remain unanswered than answered.*

*We would like to continue doing business with our valued customers to the extent ever changing regulations will allow. This requires honest and open communication regarding our view proceeding, knowing we likely will be confronted with things outside of our control in the future.*

*With that in mind, as a basis to proceed, notwithstanding anything to the contrary contained in our contract agreement, both parties understand and agree any project delays, suspensions or terminations, whether foreseeable or not, which occur on the project and are not due to the fault or negligence on our part, shall allow us compensation for our demobilization and remobilization costs, along with payment for work performed up to the date of the delay, to include our committed costs we can't cancel, and other costs incurred due to the suspension or termination, and to include overhead and profit. Any delays over a consecutive 30-day period, given the uncertainty of a restart, Faith Technologies will require payment of any retainage withheld to date.*

*The pricing on this quotation has been calculated based on current material, equipment, and transportation rates. Due to the ongoing volatility of local and global markets, we reserve the right to revise our pricing as needed based on market fluctuations and availability. The ongoing supply chain challenges and global impacts such as inflationary pressure and interruptions in globally integrated supply chains have had a tremendous impact on industries across the world. Although FTI remains hopeful conditions will fully stabilize in the near future, uncertainty still remains.*

*With that in mind, as a basis to proceed, notwithstanding anything to the contrary contained in our contract agreement, both parties understand and agree any project delays, suspensions or terminations, whether foreseeable or not, which occur on the project and are not due to the fault or negligence on our part, shall allow us compensation for our demobilization and remobilization costs, along with payment for work performed up to the date of the delay, to include our committed costs we can't cancel, and other costs incurred due to the suspension or termination, and to include overhead and profit. Any delays over a consecutive 30-day period, given the uncertainty of a restart, FTI will require payment of any retainage withheld to date.*

*FTI will do everything possible to mitigate extra costs but want to make certain we are able to recover costs incurred for our efforts expended on any project.*

*By accepting this proposal, customer agrees to include the attached addendum as an exhibit to the purchase order/contract.*

We thank you for the opportunity to provide this proposal and look forward to discussing it in detail with you. If you have any questions or need additional information, please call.

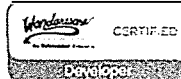
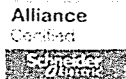
Thank you,

**Joel Schram**  
Solutions Architect  
Office: 262.896.4126  
Cell: 262.844.0473

**Brittany Thompson**  
System Architect  
Office: 920.694.3097  
Cell: 920.606.3488



A ROCKWELL AUTOMATION PARTNER





# FOX WEST NETWORK SWITCH BACKUP OPTION 2

Brandon Kaufman  
Fox West  
bkaufman@mco-us.com

6.27.2024  
Neenah, Wisconsin  
Proposal #: 0010868 V1.0

### EXECUTIVE SUMMARY / BASIS OF PROPOSAL

Faith Technologies is pleased to offer the following proposal for providing a replacement option for (8) Stratix switches and a cold backup switch for the shelf at the Fox West facility. This proposal includes a total of (9) network switches and engineering time for setup and commissioning.

### SCOPE OF WORK

1. Specify, procure, and setup a total of (3) network switches. This will include the following:
  - a. (9) Stratix 5800
    - i. (2) switches will be provided in the Headworks location
    - ii. (1) switch Main Instrument Panel (MIP)
    - iii. (1) switch UV Control Panel
    - iv. (1) switch SSCP
    - v. (1) Grit Building Switch
    - vi. (1) Thickener Control Panel Switch
    - vii. (1) ATAD Switch
    - viii. (1) switch will be a cold spare
  - b. (18) SFP- LC Multimode Fiber
2. Up to ten site visits of commissioning time is included for an OT Engineer and Automation Engineer.
3. Simple installation and replace in kind is included in this scope of work.

**Automation/Integration Solution <<Fixed>> .....\$163,985**

Pricing is valid for thirty (30) days from date on this proposal.

### EXCLUSIONS

1. Installation and wiring for new components are not included in this scope of work.
2. No additional components such as power supplies, circuit protection or complex mounting means are included in this scope of work.

### PROJECT ASSUMPTIONS

- A. It is assumed that a sufficient power supply and space is available for an additional redundant switch for the Headworks facility.
- B. All labor hours are estimated as first shift and regular time.
- C. The systems described in this proposal require Internet Protocol (IP) based communications. Cooperation and coordination with the facility's IT department will be required for the proposed integration implementations to be successful
- D. Any future upgrades of this process or machine control system including hardware, software, firmware, peripheral device or equipment, including Windows/OS updates should be discussed with Faith Technologies to minimize conflicts and potential hazards or system failure. Any action or inaction related to updates without consultation is at the owner's sole risk.
- E. Any items not explicated stated will be considered excluded from the scope of work and any changes or additions shall be considered out of scope
- F. Onsite startup/commissioning is included, up to 10 days. Any additional time and expense will be managed by Change Order.



FAITH TECHNOLOGIES  
INCORPORATED

## GENERAL TERMS AND CONDITIONS

- A. Sales and all other tax is not included in the price.
  - a. If applicable, owner to supply tax exempt certificate at receipt of order.
- B. Freight charges are included in the price. All Freight is FOB Client Site, Prepaid and Billed.
- C. No live work permitted.
- D. Project schedule to be developed in collaboration with the Client.
- E. The commodity markets are currently experiencing considerable volatility. For that reason, Faith Technologies will require validation of any price proposal immediately before entering into a contract. Upon notification of interest to contract, Faith will verify price proposal in a timely fashion with the current market and notify the customer of any changes, at which time conditions to move forward can be discussed.
- F. Any changes to the scope of work or the materials used at client's request may be billable. Any work performed outside of the previously defined scope options shall be managed according to Change Order protocol.
- G. Warranty: Faith Technologies will provide warranty support for our installation and craftsmanship for a period of one year.
- H. By submission of its proposal, Faith Technologies, Inc. reserves the right to negotiate mutually acceptable contract terms, including review of any applicable Prime contract provisions, upon award of the work.
- I. Full balance of retainage payment, if applicable, shall be made within thirty (30) days of Substantial Completion, subject only to withholding for written documentation of incomplete Faith Technologies' work. Substantial completion shall be defined as project being complete to a point that the Client can occupy and/or utilize for its intended use.

## PAYMENT TERMS AND CONDITIONS

- A. Payment Terms:
  - a. 35% upon PO
  - b. A progress billing mechanism will be utilized and billed monthly per the contract.
- B. All invoices will be due Net 30 days.

*COVID-19 has had a tremendous impact on industries across the. Although Faith Technologies remains hopeful the present initiatives will get things under control in*

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## Sanitary Sewer Design Calculations

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Sanitary Sewer Extension – Scholar Ridge Estates (Phase 2) – Clayton, WI

- Immediate Service Area = 21-acres
  - 21 Acres of Residential
- Ultimate Service Area = 21-acres
  - 21 Acres of Residential
- Average Daily Flow=
  - Residential = Acres \* (16 people / acre) \* (100 gpd/capita) = **33,600 gpd**
  - **TOTAL DAILY FLOW= 33,600 gpd**
- Peak Daily Flow = (33,600 gpd)\*4 = 134,400 gpd
- 8-inch capacity @ 0.40% (n=0.011) = 0.91 cfs = 588,108 gpd > 134,400 gpd
- Population equivalent = 134,400 gpd / (100 gpd / capita) = 1,344 people
- Estimated BOD Loading = (1,344 people)\*(0.22 lb./capita/day) = 295.68 lb./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

Town of Clayton

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

Scholar Ridge Estates - Phase 2

C. Wastewater Treatment Facility Name:

Fox West Regional Sewerage Treatment Plant

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

Town of Clayton

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

Consulting Engineer - McMahon Associates

### 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: <u>2024</u>	Population Density per acre: <u>16</u>
Total Population Served: <u>336</u>	Immediate Area Served: <u>21</u> acres
	Ultimate Area Served: <u>21</u> 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: TO BE SUBMITTED

**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.)

- 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

## Sanitary Sewer Submittal

Form 3400-059 (R 08/20) Page 4 of 6

Scholar Ridge Estates - Phase 2

- 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	1385	Marlo Avenue	PVC
8	811	Cornell Avenue	PVC
8	477	Xavier Drive	PVC
8	393	Vanderbilt Drive	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:  
 Marlo Avenue and Cornell Avenue

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

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 7-26-24

Wisconsin P.E. Number E-27972

**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 (Latest edition).

Note: Standard specifications do not apply 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	_____	_____
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: \_\_\_\_\_

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

Method: \_\_\_\_\_

G. Manholes:

Diameter \_\_\_\_\_

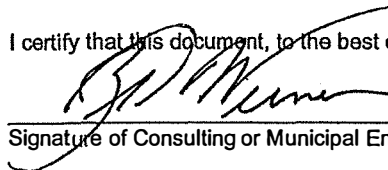
Material \_\_\_\_\_

Outside Drops \_\_\_\_\_

Water Tight Inlets and Outlets \_\_\_\_\_

Sketch Included \_\_\_\_\_

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-27972  
 \_\_\_\_\_  
 Wisconsin P.E. Number

## Sanitary Sewer or Lift Station Project Approval Request

Form 3400-160 (R 11/17)

Date: 07/25/2024

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:

Scholar Ridge Estates - Phase 2 - Utility & Street Construction

Project construction will occur at the following locations:


Street	Pipe Size (in.)	Pipe Length (ft.)
Marlo Avenue	8	1,385
Cornell Avenue	8	811
Xavier Drive	8	477
Vanderbilt Drive	8	393

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

True False N/A

- 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](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 Werner	First Name Brad	Email bwerner@mcmgrp.com	P.E. Number E-27972
Signature 		Name of Firm McMahon Associates	

Scholar Ridge Estates - Phase 2 - Utility & Street Construction  
07/25/2024

**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>

**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) Town of Clayton		WPDES Permit No.*	County (of project location) Winnebago
Owner Representative Last Name Wisnefske	First Name Kelly	MI	Title Administrator
Address 8348 County Road T		City Larsen	State   ZIP Code WI   54947
Phone Number (include area code) (920) 836-2007		Email Address administrator@townofclayton.net	

Design Engineer Information			
Last Name Werner		First Name Brad	MI
Title Project Engineer, PE		Company Name McMahon Associates	
Address 1445 McMahon Drive		City Neenah	State   ZIP Code WI   54956
Phone Number (include area code) (920) 751-4200		Email Address bwerner@mcmgrp.com	

Project Information	
Project Title Scholar Ridge Estates - Phase 2 - Utility and Street Construction	
Project Description Sanitary sewer extension along Marlo Avenue, Cornell Avenue, Xavier Drive, and Vanderbilt Drive in the Town of Clayton.	

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	

Design Engineer Name (print) Brad Werner	Wisconsin P.E. Number* E-27972
Signature of Design Engineer 	Date Signed 7-26-24

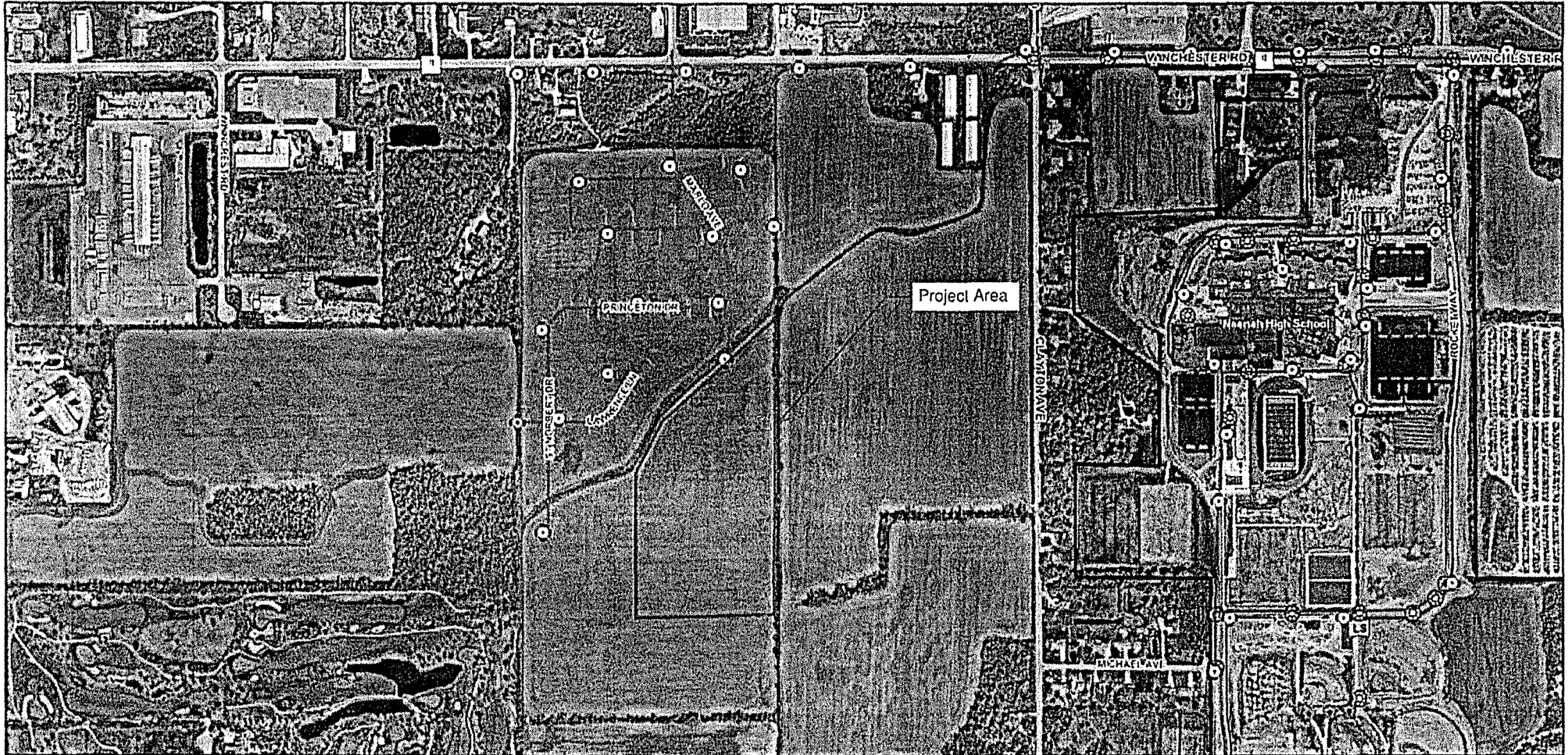
Type of Project		
Select all that apply:		
<input checked="" type="checkbox"/> Sanitary Sewer Extension	<input type="checkbox"/> Municipal Treatment Plant	<input type="checkbox"/> Non-Domestic POWTS
<input type="checkbox"/> Sewer Replacement/Rehabilitation	<input type="checkbox"/> Industrial Treatment 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: <a href="#">Expedited Review</a> )		

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.





# Village of Fox Crossing Utilities



7/25/2024, 2:14:28 PM

Water Hydrant

- Hydrant with Valve
- Hydrant No Valve

Water Main

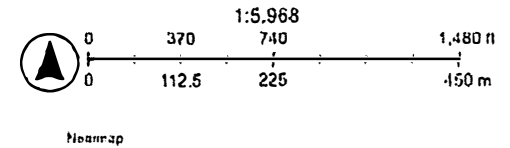
Village of Fox Crossing

- Private Water Lateral
- Hydrant Lateral
- Village Lateral
- Owner Lateral

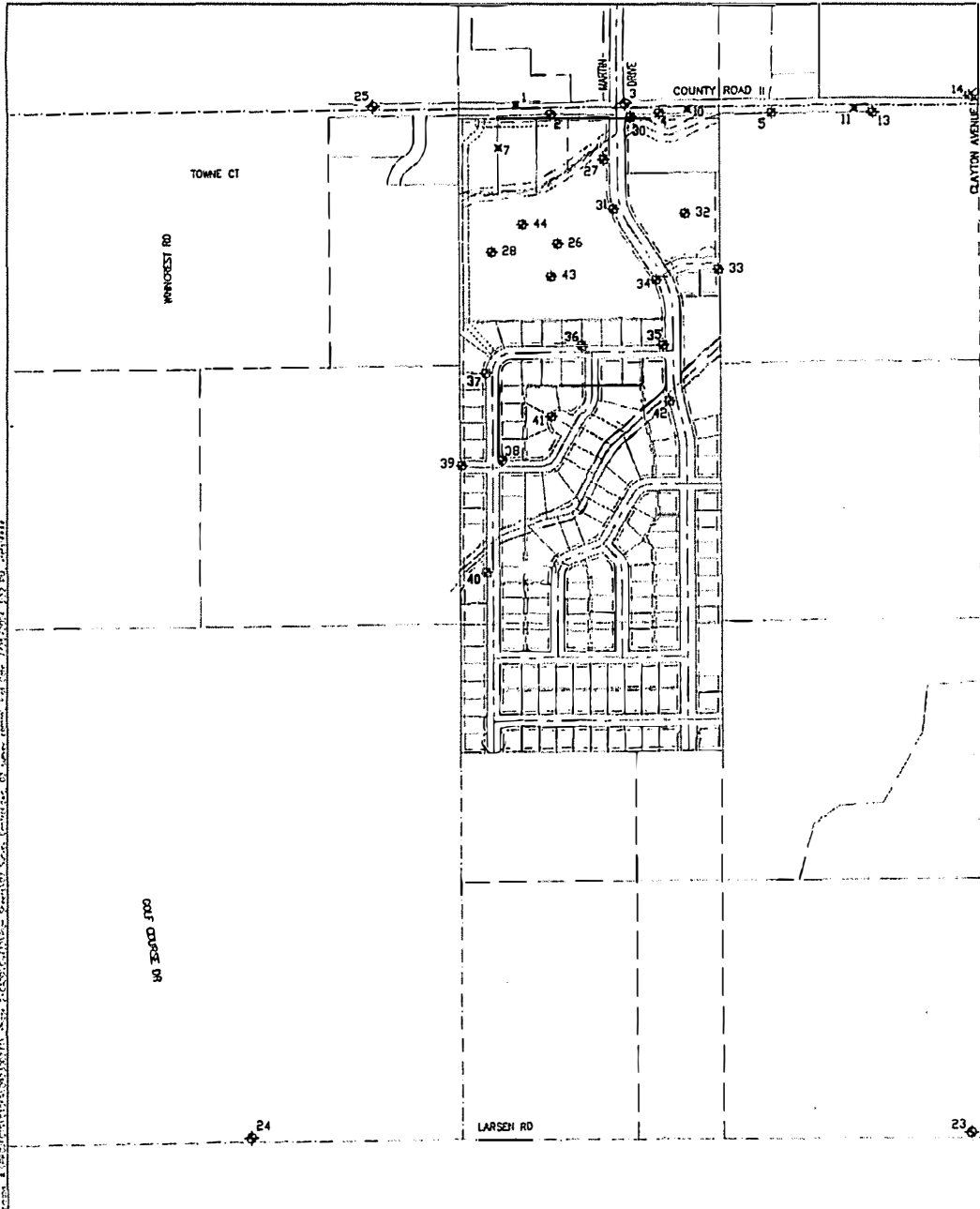
- Sanitary Manhole
- Sanitary Cleanout
- Sanitary Structure
- Lift Station
- Sanitary Force Main

- Sanitary Gravity Main
- Storm Manhole
- Storm Culvert
- Storm Main
- Gravity Main

- Fiber Structures
- Fiber Routes
- Underground Route
- Fox Crossing Municipal Boundary
- County Boundary



Northmap



**CONTROL POINTS FOR MACHINE CONTROL CALIBRATION**

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	539641.97	794933.61	849.80	MAG NAIL
17	539676.10	797223.93	828.05	DISC IN CONCRETE
23	534359.36	796712.23	821.83	MAG NAIL
24	534325.69	795013.24	874.71	MAG NAIL
25	539621.85	793639.20	875.25	MAG NAIL

**HORIZONTAL CONTROL POINTS**

POINT #	NORTHING	EASTING	DESCRIPTION
1	539831.02	794374.40	MAG NAIL
7	539417.25	794266.12	MAG NAIL
9	539687.82	796728.84	MAG NAIL
10	539607.25	795251.14	MAG NAIL
11	539618.90	796111.38	MAG NAIL
12	539866.42	797768.03	MAG NAIL
18	539866.59	798019.26	MAG NAIL
19	539720.56	798831.64	MAG NAIL
20	539669.49	796823.83	CEAR NAIL

**VERTICAL BENCHMARK CONTROL**

POINT #	ELEVATION	DESCRIPTION
2	857.18	MAG IN POWER POLE
4	846.79	MAG IN POWER POLE
5	837.85	MAG IN POWER POLE
6	825.25	HYDRANT TAG BOLT
8	826.19	HYDRANT TAG BOLT
13	842.05	NAIL IN POWER POLE
14	834.64	HYDRANT TAG BOLT
15	831.17	HYDRANT TAG BOLT
16	828.68	HYDRANT TAG BOLT
21	825.43	NAIL IN POWER POLE
22	824.61	HYDRANT TAG BOLT
26	855.83	TOP 1" IRON PIPE W/ CAP
27	851.67	TOP 1" IRON PIPE W/ CAP
28	858.99	TOP 1" IRON PIPE W/ CAP
30	849.65	HYDRANT TAG BOLT
31	854.86	HYDRANT TAG BOLT
32	853.79	HYDRANT TAG BOLT
33	855.28	HYDRANT TAG BOLT
34	854.52	HYDRANT TAG BOLT
35	851.31	HYDRANT TAG BOLT
36	857.14	HYDRANT TAG BOLT
37	865.07	HYDRANT TAG BOLT
38	865.79	HYDRANT TAG BOLT
39	869.71	HYDRANT TAG BOLT
40	867.18	HYDRANT TAG BOLT
41	861.73	HYDRANT TAG BOLT
42	851.84	HYDRANT TAG BOLT
43	858.88	HYDRANT TAG BOLT
44	859.92	HYDRANT TAG BOLT

**NOTE:**  
 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ALSO VERIFY HORIZONTAL CONTROL BY FIELD CHECKING SEVERAL CONTROL POINTS AND SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY DISCREPANCIES.

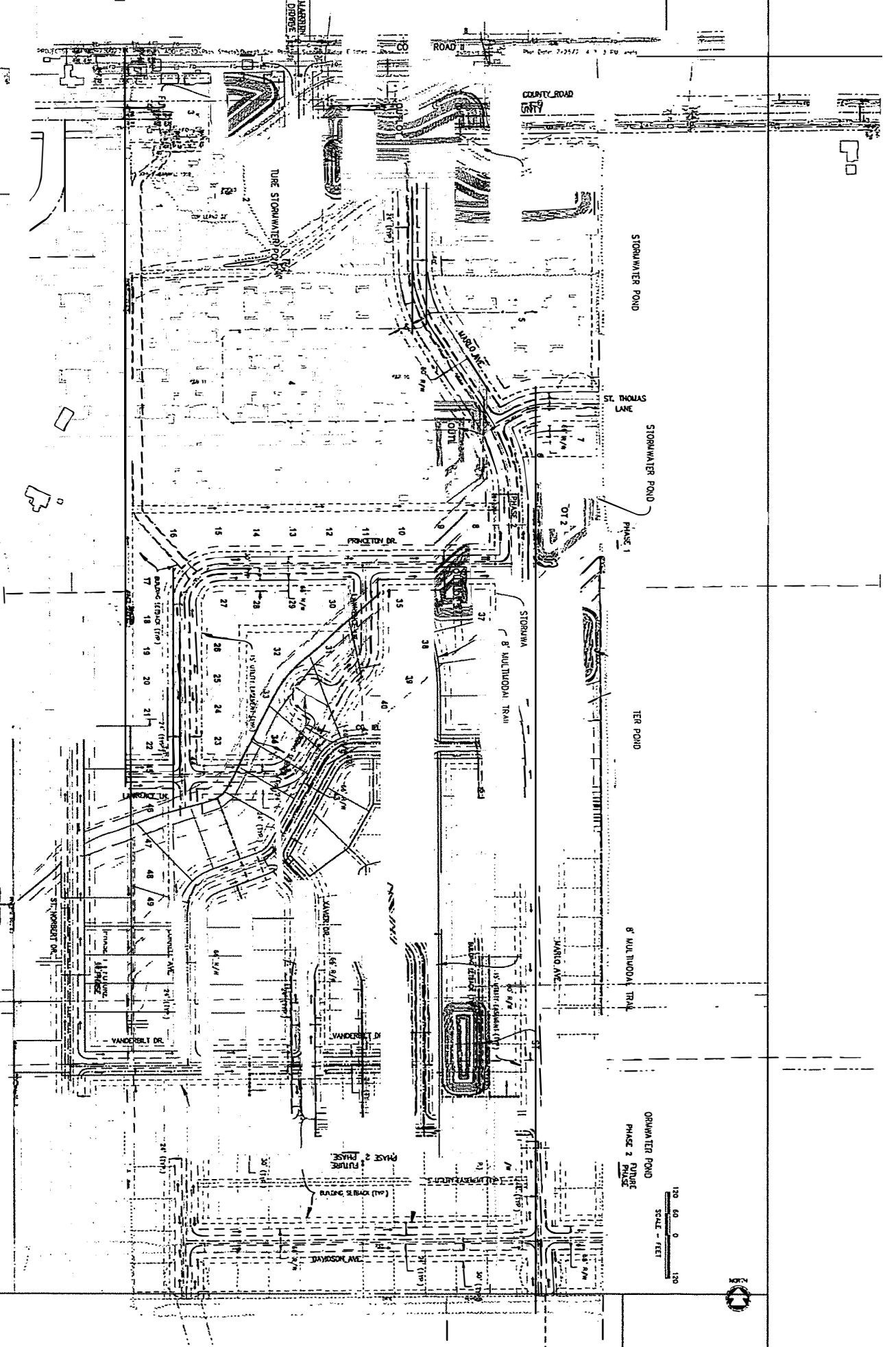
**VERTICAL DATUM:**  
 ELEVATIONS ARE REFERENCED TO MGS DATA:  
 CONTROL POINT NAME: 4453  
 POINT ID: D67567 NAD 83 DATUM  
 BY CONVENTIONAL LEVEL LOOP TO ELEVATION = 828.05 (2012 ADJUSTMENT)  
 LEVEL LOOP PER FIELD BOOK 1523 PAGES 16-17, FIELD BOOK 1496 PAGE 70,  
 FIELD BOOK 1534 PAGES 48-49, FIELD BOOK 1511 PAGE 78 & FIELD BOOK  
 1566 PAGES 50-52

**HORIZONTAL DATUM:**  
 COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM AS PUBLISHED FOR WINNEBAGO COUNTY NAD 83 (1997)



SCHOLAR RIDGE ESTATES - PHASE 2  
 TOWN OF CLAYTON

DESIGNED BY	JML
CHECKED BY	
DATE	JUL 23, 2011
SHEET NO.	02



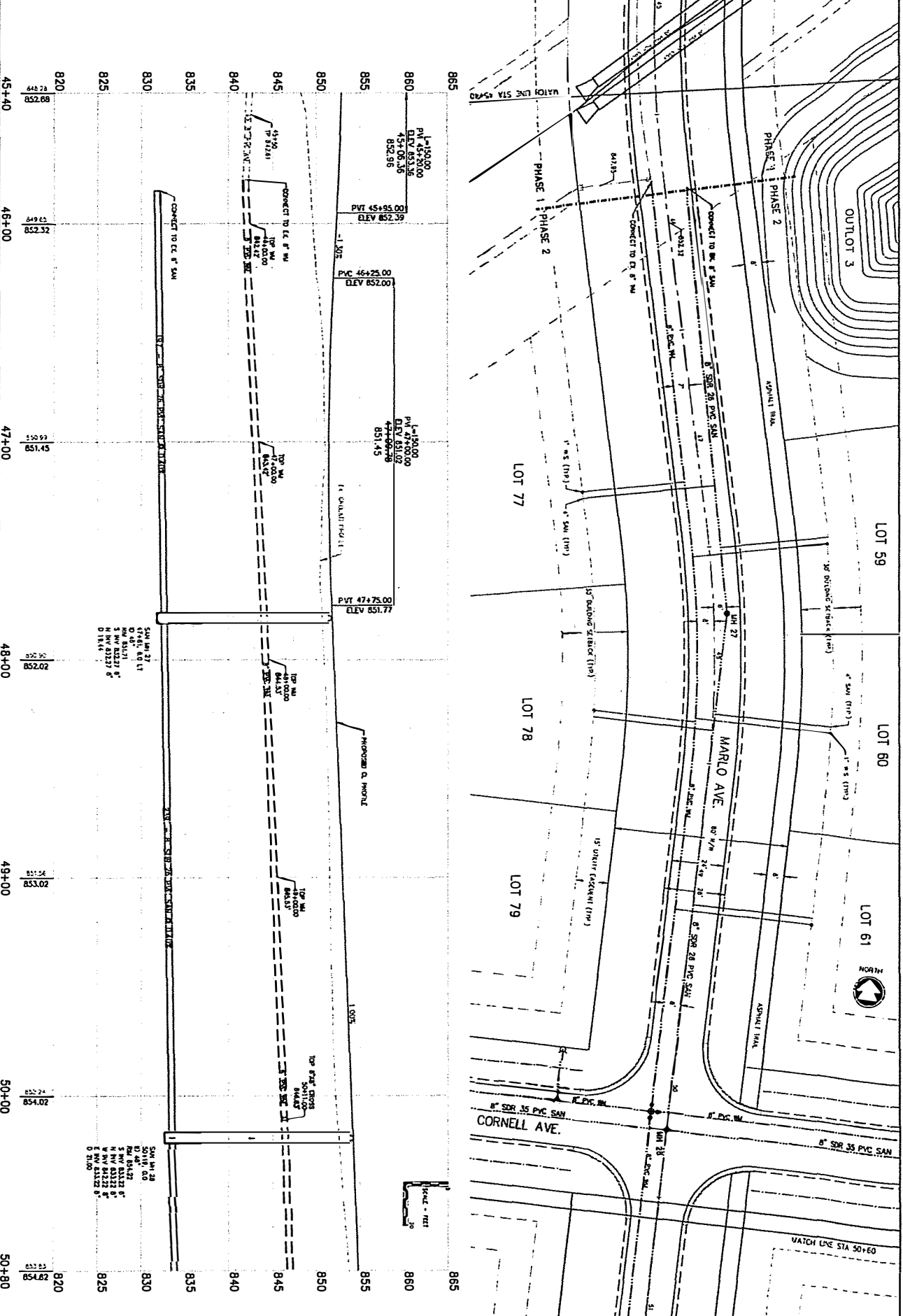
SCHOLAR RIDGE ESTATES - PHASE 2  
 TOWN OF CLAYTON  
 OVERALL SUBDIVISION SITE PLAN

03

DATE: JAN 23, 2014  
 SCALE: AS SHOWN  
 PROJECT NO: 14-001  
 CLIENT: SCHOLAR RIDGE ESTATES

120 60 0 60 120  
 SCALE - FEET

**McMAHON**  
 McMAHON ASSOCIATES, INC.  
 1645 W. MANHATTAN DRIVE, WISCONSIN, WI 53090  
 PHONE: 262.833.1234 FAX: 262.833.1235  
 WWW.MCMACON.COM



Station	820	825	830	835	840	845	850	855	860	865
45+40	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58
46+00	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58
47+00	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58
48+00	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58
49+00	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58
50+00	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58
50+80	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58

SCHOLAR RIDGE ESTATES - PHASE 2  
TOWN OF CLAYTON

**McMAHON**  
SURVEYING & ENGINEERING, INC.  
11111 W. 11th St., Suite 100  
Overland Park, KS 66211  
Tel: 913.241.1111  
Fax: 913.241.1112  
www.mcmahonks.com

04











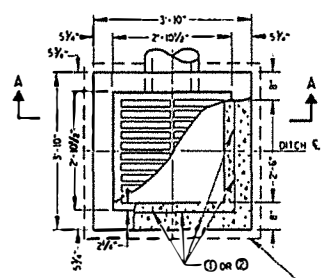




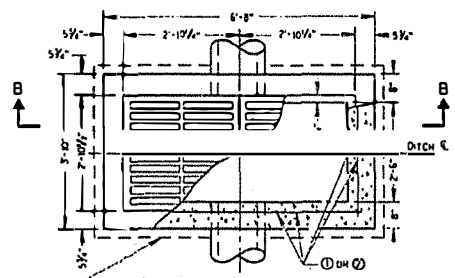




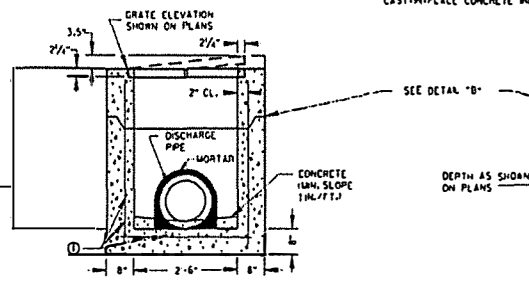
NO.	DATE	DESCRIPTION
1	07/23/20	ISSUED FOR PERMIT
2		
3		
4		
5		
6		
7		
8		
9		
10		



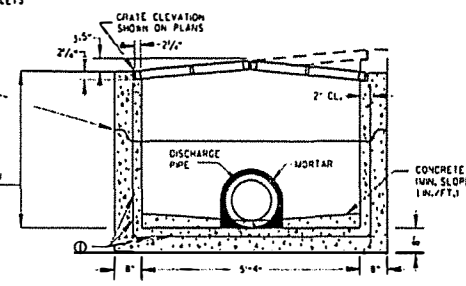
PLAN VIEW



PLAN VIEW



PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B

**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.

UNLESS OTHERWISE AUTHORIZED BY WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNLESS A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 10" x 5", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT. BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL, THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN ON NOTES.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 915.

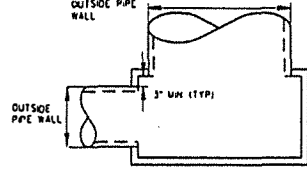
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A", ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 915.

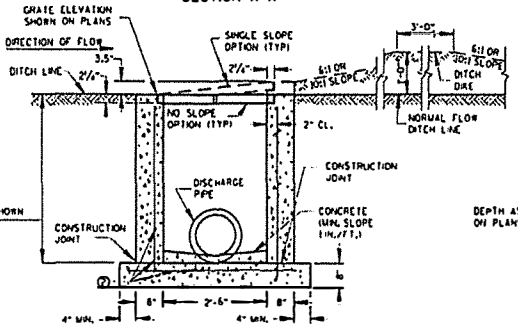
② CONTRACTOR TO PROVIDE DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

**PIPE MATRIX**

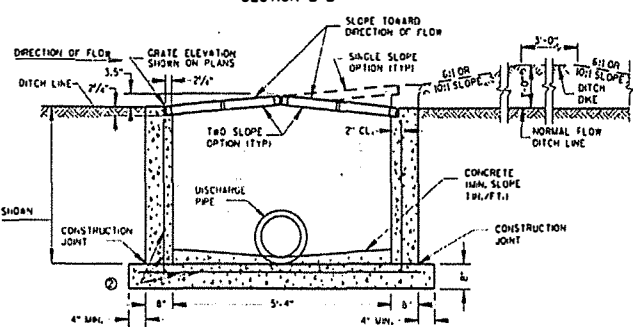
INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	WIDTH (IN)	LENGTH (IN)
1 GRATE	10	18	42
2 GRATE	10	42	



DETAIL "A"

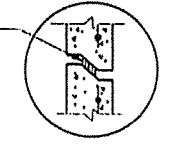


REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

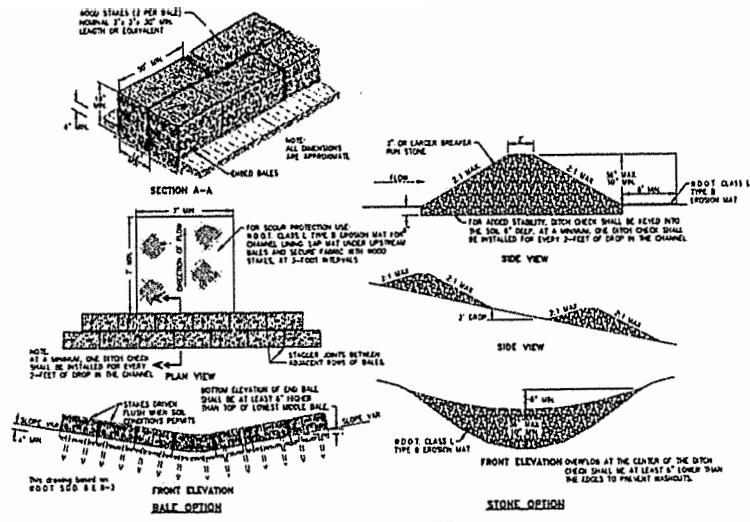
**INLETS MEDIAN 1 GRATE**

**INLETS MEDIAN 2 GRATE**

Project: 20200714-1048333-1025211 Drawn: JKL/SD/PL/15/20 Date: 7/23/2020 1:54 PM  
 Sheet: 2 of 2 Title: 14 Inlets Median Details - Phase 2 Date: 7/23/2020 1:54 PM

NO.	DATE	DESCRIPTION
1		
2		
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4		
5		

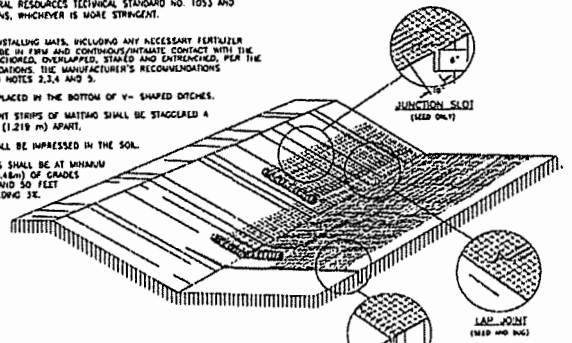
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
DATE	
JULY 23, 2024	
SHEET NO.	
15	



**GENERAL NOTES**

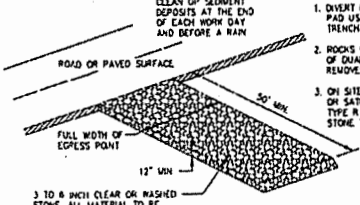
CHANNEL EROSION MAT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD NO. 1053 AND MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.

1. PREPARE TOPSOIL BEFORE INSTALLING MATS, INCLUDING ANY NECESSARY FERTILIZER AND SEED. THE MAT SHALL BE IN FIRM AND CONTINUOUS/INTIMATE CONTACT WITH THE SOIL. THE MAT SHALL BE ANCHORED, OVERLAPPED, STAKED AND ENTRENCED. PER THE MANUFACTURER'S RECOMMENDATIONS. THE MANUFACTURER'S RECOMMENDATIONS SUPERSEDE THIS DETAIL AND NOTES 2,3,4 AND 5.
2. LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.
3. ANCHOR SLOTS ON ADJACENT STRIPS OF MATSHO SHALL BE STAGGERED A MINIMUM OF 4 (FOUR) FEET (1.219 M) APART.
4. EDGES OF EROSION MAT SHALL BE IMPRESSED IN THE SOIL.
5. ANCHOR SLOTS ON ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET (30.48M) OF GRADES UP TO AND INCLUDING 3%, AND 50 FEET (15.24M) ON GRADES EXCEEDING 3%.



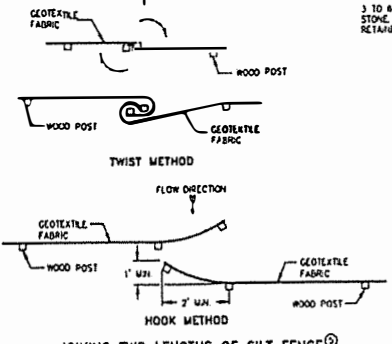
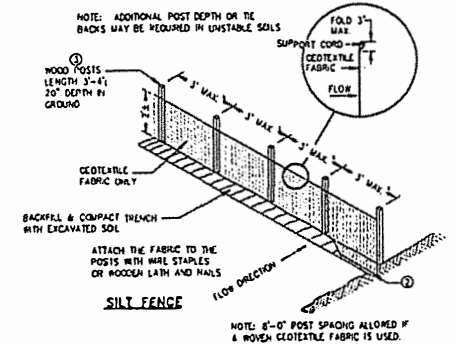
**CHANNEL EROSION MAT DETAIL**

1. DIVERT FLOW AWAY FROM TRACKING PAD USING CURLETS, SHALLOW TRENCH OR DIVERSION DAM
2. ROCKS LEANED BETWEEN THE TIES OF DUAL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE SITE.
3. ON SITES WITH A HIGH WATER TABLE ON SATURATED SOILS, INSTALL A DOT TYPE A GEOTEXTILE FABRIC UNDER STONE TRACKING PAD

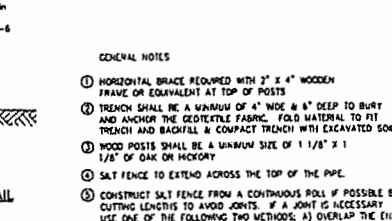
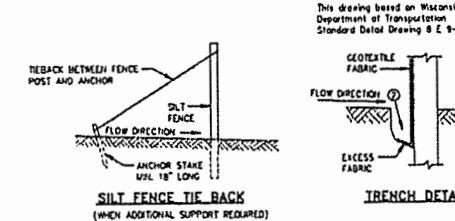


**TRACKING PAD DETAIL**

**DITCH CHECK DETAIL**



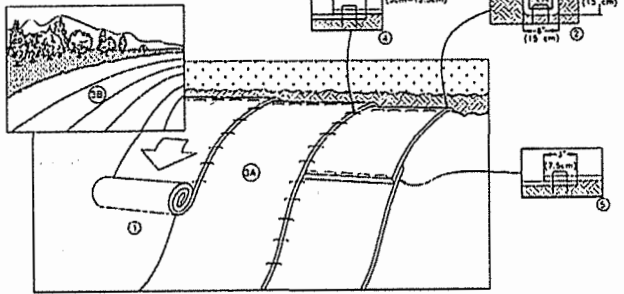
**JOINING TWO LENGTHS OF SILT FENCE**



**SILT FENCE DETAIL**

**GENERAL NOTES**

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" 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 POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES. B) HOOK THE END OF EACH SILT FENCE LENGTH



**SLOPE EROSION MAT DETAIL**

1. PREPARE TOPSOIL BEFORE INSTALLING MATS, INCLUDING ANY NECESSARY FERTILIZER AND SEED. THE MAT SHALL BE IN FIRM AND CONTINUOUS/INTIMATE CONTACT WITH THE SOIL. THE MAT SHALL BE ANCHORED, OVERLAPPED, STAKED AND ENTRENCED. PER THE MANUFACTURER'S RECOMMENDATIONS. THE MANUFACTURER'S RECOMMENDATIONS SUPERSEDE THIS DETAIL AND NOTES 2,3,4 AND 5.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE MAT IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF MAT EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE MAT WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30CM) PORTION OF MAT BACK OVER SEED AND COMPACTED SOIL. SECURE MAT OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30CM) APART ACROSS THE WIDTH OF THE MAT.
3. ROLL THE MATS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. MATS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL MATS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL MATS MUST BE STAPLED UP APPROXIMATELY 2"-5" (5CM-12.5CM) OVERLAP DEPENDING ON MAT TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING MAT (MAT BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM SITCH ON THE PREVIOUSLY INSTALLED MAT.
5. CONSECUTIVE MATS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5CM) OVERLAP. SIMPLE THROUGH OVERLAP AREA APPROXIMATELY 12" (30CM) APART ACROSS ENTIRE MAT WIDTH.

**SLOPE EROSION MAT DETAIL**