

WABASHA UTILITIES COMMISSION

April 1, 2024 4:00 PM

MEETING AGENDA

- 1) Call to Order and Roll Call
- 2) Changes or Additions to Agenda
- 3) Approval:
 - 1) UT WARRANTS
 - 2) 3-4-24 UT COMM MINUTES
 - 3) March 2024 Utilities Financials
- 4) Adjustment Requests
- 5) General Business
 - 1) Pump Repairs
 - 2) Eagles Basin PUD
- 6) Old Business
- 7) Other Business
- 8) Adjourn

Utilities Commission

3) 1)

Meeting Date: 04/01/2024

ITEM TITLE: UT WARRANTS

DEPARTMENT: Administration

PURPOSE:

ITEM SUMMARY:

Attachments

APRIL UT WARRANTS

CITY OF WABASHA

03/27/24 1:20 PM

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Receipts

Current Period: March 2024

Payments Batch 4124UTWARRANTS

\$26,450.47

Refer 12488 FERGUSON WATERWORKS

Cash Payment E 800-500-49000-221 Equipment Mainten METER ID'S \$2,868.60

Invoice 0526808

Transaction Date 3/27/2024 First State Bank 10100 Total \$2,868.60

Refer 12489 FERGUSON WATERWORKS

Cash Payment E 800-500-49000-221 Equipment Mainten METER IDS \$1,449.07

Invoice 525961

Transaction Date 3/27/2024 First State Bank 10100 Total \$1,449.07

Refer 12490 STEVEN HENTHORN

Cash Payment E 810-500-49449-308 Continuing Ed REIMBURSEMENT FOR TRAINING \$210.38

Transaction Date 3/27/2024 First State Bank 10100 Total \$210.38

Refer 12491 FERGUSON WATERWORKS

Cash Payment E 800-500-49000-240 Small Tools and Mi BELTCLIP REPAIRS \$200.00

Invoice 526039

Transaction Date 3/27/2024 First State Bank 10100 Total \$200.00

Refer 12492 FERGUSON WATERWORKS

Cash Payment E 800-500-49000-221 Equipment Mainten 3 RR 1/8 FF 150# GSKT \$7.84

Invoice 526338

Transaction Date 3/27/2024 First State Bank 10100 Total \$7.84

Refer 12493 FERGUSON WATERWORKS

Cash Payment E 800-500-49000-312 Computer Support MRX920 MOBILE DATA \$10,824.89

Invoice 522976

Transaction Date 3/27/2024 First State Bank 10100 Total \$10,824.89

Refer 12494 FERGUSON WATERWORKS

Cash Payment E 800-500-49000-221 Equipment Mainten METER IDS \$2,826.80

Invoice 526304

Transaction Date 3/27/2024 First State Bank 10100 Total \$2,826.80

Refer 12495 FIRST LEASE LLC

Cash Payment E 810-500-49449-615 Lease Principal JETTER TRUCK PAYMENT \$1,315.56

Cash Payment E 810-500-49449-616 Lease Interest JETTER TRUCK PAYMENT \$282.57

Transaction Date 3/27/2024 First State Bank 10100 Total \$1,598.13

Refer 12496 TELEMETRY & PROCESS CONTRO

Cash Payment E 810-500-49449-311 Contractor Fees FINAL LAPTOP INVOICE MAY 23 - MARCH 24 \$825.00

Invoice 116458

Transaction Date 3/27/2024 First State Bank 10100 Total \$825.00

Refer 12497 VISA

Cash Payment E 810-500-49449-331 Travel Expense WASTEWATER SCHOOL MEALS, HOTEL & PARKING \$553.33

Invoice UTILITIES CARD

Cash Payment E 800-500-49000-437 Misc Licenses and MPARS \$140.00

Invoice UTILITIES CARD

CITY OF WABASHA

03/27/24 1:20 PM

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Receipts

Current Period: March 2024

Cash Payment	E 800-500-49000-437	Misc Licenses and	MPARS		\$1,412.40
	Invoice UTILITIES CARD				
Cash Payment	E 800-500-49000-219	General Supplies	BATTERIES		\$391.39
	Invoice UTILITIES CARD				
Cash Payment	E 800-500-49000-221	Equipment Mainten	SOLAR BATTER PARTS FOR RESIVOIR		\$123.48
	Invoice UTILITIES CARD				
Transaction Date	3/27/2024	First State Bank	10100	Total	\$2,620.60
Refer	12498	HILLS HARDWARE HANK			
Cash Payment	E 810-500-49449-214	Shop Materials	UT ACCOUNT BALANCE		\$110.45
	Invoice STMT 3/25/24				
Transaction Date	3/27/2024	First State Bank	10100	Total	\$110.45
Refer	12499	FERGUSON WATERWORKS			
Cash Payment	E 800-500-49000-221	Equipment Mainten	METER ID'S		\$2,908.71
	Invoice 526924				
Transaction Date	3/27/2024	First State Bank	10100	Total	\$2,908.71

Fund Summary

	10100	First State Bank	
800 Water Department			\$23,153.18
810 Sewer Department			\$3,297.29
			<u>\$26,450.47</u>

Utilities Commission

3) 2)

Meeting Date: 04/01/2024

ITEM TITLE: 3-4-24 UT COMM MINUTES

DEPARTMENT: Administration

PURPOSE:

ITEM SUMMARY:

Attachments

3-4-24 UT Commision Minutes

DRAFT



Utilities Commission

Commissioners:

Brian Wodele (President)

Steve Schmidt

John Kreye
Josh Wendt

Mike Wallerich

Present: Steve Schmidt, Commissioner; John Kreye, Commissioner; Brian Wodele, Chair; Josh Wendt, Commissioner

Absent: Mike Wallerich, Commissioner

Also Present: Jessica Bruce, Deputy Clerk; Tyler Grabau, Finance Director; Pat Mueller, Water & Sewer Supervisor

1. Call to Order and Roll Call

Meeting was called to order at 4:00pm by Wodele.

2. Changes or Additions to Agenda

Bruce presented 3 bills to add to the warrants. They were for Dicks Auto, Wabasha County and Ferguson Waterworks.

Moved by Chair Brian Wodele, seconded by Commissioner Steve Schmidt to approve the agenda with the additional warrants. AYE: 4 NAY: None. ABSENT: Commissioner Mike Wallerich (ABSENT) Motion: Adopted

3. Approval:

1. March Warrants

Moved by Commissioner Steve Schmidt, seconded by Commissioner John Kreye to approve the warrants with the addition of the 3 bills. AYE: 4 NAY: None. ABSENT: Commissioner Mike Wallerich (ABSENT) Motion: Adopted

2. February Utilities Commission Meeting Minutes

Moved by Chair Brian Wodele, seconded by Commissioner Josh Wendt to approve the 2-5-24 Ut Commission minutes. AYE: 4 NAY: None. ABSENT: Commissioner Mike Wallerich (ABSENT) Motion: Adopted

3. February 2024 Utilities Financials

The commission reviewed the February Financials.

4. Adjustment Requests

Mueller wanted to mention that a new meter had been ordered and just arrived for the Americinn. They have had high usage and claim there is no leak. Mueller stated they were going to replace the meter to see if it by any chance, was the meter.

5. General Business

1. 2024 Utilities Budget

6. Old Business

7. Other Business

Mueller filled the commission in on some recent things they are working on. The computer system (ordered 2 years and 2 months ago) is up and running at the plant. They are still working on the blue tube as it is still in need of some repairs. Steven is currently attending his wastewater classes for his license this week. Someone also ran over the fire hydrant at the red rooster and they are working on repairing that.

8. Adjourn

Moved by Chair Brian Wodele, seconded by Commissioner John Kreye to adjourn at 4:17. AYE: 4 NAY: None. ABSENT: Commissioner Mike Wallerich (ABSENT) Motion: Adopted

Jessica Leonhardt, Deputy Clerk

Utilities Commission

3) 3)

Meeting Date: 04/01/2024

ITEM TITLE: March 2024 Utilities Financials

DEPARTMENT: Administration

PURPOSE:

ITEM SUMMARY:

Review March 2024 Utilities Financials.

ACTION REQUIRED:

Approve March 2024 Utilities Financials.

Attachments

YTD March 22, 2024 Utilities Financials

2024 Utilities Net Income (YTD March 22, 2024)	
Water Revenue	\$72,341
Sewer Revenue	\$196,679
Total Revenue	\$269,020
Water Expense	\$170,316
Sewer Expense	\$101,945
Total Expense	\$272,261
Net Income	-\$3,241

2024 Water Revenue (YTD March 22, 2024)			
FUND	Account Description	2024 YTD Total	2024 Budget
800	R 800-31060 Special Assessments	\$0	\$2,300
800	R 800-32180 Digging Permits - UT	\$0	\$0
800	R 800-33300 MDH Source Water Prot Grant	\$0	\$0
800	R 800-33439 Pension Revenue	\$0	\$0
800	R 800-34307 Sales of Inventory	\$1,120	\$4,000
800	R 800-36100 Special Assessments	\$0	\$0
800	R 800-36200 Miscellaneous Revenues	\$120	\$1,000
800	R 800-36210 Interest Earnings	\$4,325	\$6,000
800	R 800-37110 Water Sales	\$63,922	\$323,541
800	R 800-37111 Sale of Capital Assets	\$0	\$0
800	R 800-37150 WAC-WaterConnection Fee	\$300	\$1,400
800	R 800-37160 Penalty Revenue	\$2,554	\$3,700
800	R 800-37170 Unallocated UT Revenues	\$0	\$0
800	R 800-37180 W/S HOOK UP CHARGES	\$0	\$600
800	R 800-37213 Hydrant Rental	\$0	\$0
800	R 800-37270 UT Enterprise Fund Staff	\$0	\$0
800	R 800-39200 Interfund Operating Transfers	\$0	\$0
800	R 800-39204 LOAN - BJH Enter.	\$0	\$0
801	R 801-36210 Interest Earnings	\$0	\$7,000
801	R 801-37100 Base Rate - Water	\$0	\$123,692
801	R 801-39200 Interfund Operating Transfers	\$0	\$0
2024 YTD Water Revenue		\$72,341.08	\$473,232.62

2024 Sewer Revenue (YTD March 22, 2024)			
FUND	Account Description	2024 YTD Total	2024 Budget
810	R 810-31000 General Property Taxes	\$0	\$0
810	R 810-31060 Special Assessments	\$0	\$14,000
810	R 810-32180 Digging Permits - UT	\$0	\$300
810	R 810-32250 Septic System Permit	\$0	\$0
810	R 810-32251 Sewer Permit	\$0	\$0
810	R 810-33400 State Grants and Aids	\$0	\$0
810	R 810-33422 STATE GRANT	\$0	\$5,000
810	R 810-33439 Pension Revenue	\$0	\$0
810	R 810-36200 Miscellaneous Revenues	\$0	\$0
810	R 810-36210 Interest Earnings	\$1,202	\$5,000
810	R 810-36211 Interest-DO NOT USE	\$0	\$0
810	R 810-37111 Sale of Capital Assets	\$0	\$0
810	R 810-37160 Penalty Revenue	\$936	\$7,000
810	R 810-37170 Unallocated UT Revenues	\$0	\$0
810	R 810-37210 Sewer Sales	\$184,824	\$762,563
810	R 810-37220 Reads landing Service	\$7,916	\$36,000
810	R 810-37251 Sewer Connection Fees	\$1,800	\$7,500
810	R 810-39100 Capital Contributions	\$0	\$0
810	R 810-39200 Interfund Operating Transfers	\$0	\$0
810	R 810-39201 Transfer from General Fund	\$0	\$0
810	R 810-39310 G.O. Bond Sale Proceeds	\$0	\$0
810	R 810-39311 Capital Leave Liability	\$0	\$0
2024 YTD Sewer Revenue		\$196,678.80	\$837,363.25

2024 Water Expenses (YTD March 22, 2024)		
Account Description	2024 YTD Total	2024 Budget
E 800-500-49000-101 Full-time Employees-Regular	\$20,718	\$100,902
E 800-500-49000-121 PERA Contributions	\$1,554	\$7,568
E 800-500-49000-122 FICA Contributions	\$1,175	\$6,256
E 800-500-49000-124 Medicare Contributions	\$275	\$1,463
E 800-500-49000-131 Health Insurance	\$10,446	\$29,243
E 800-500-49000-133 Dental Insurance	\$191	\$1,215
E 800-500-49000-134 Life Insurance	\$122	\$474
E 800-500-49000-151 WC Ins. Premium	\$0	\$3,337
E 800-500-49000-200 Office Supplies	\$0	\$200
E 800-500-49000-212 Motor Fuels	\$512	\$3,400
E 800-500-49000-216 Chemical and Chemical Products	\$1,066	\$3,700
E 800-500-49000-219 General Supplies	\$2	\$600
E 800-500-49000-221 Equipment Maintenance/Parts	\$7,372	\$20,000
E 800-500-49000-223 Building Maintenance/Repair Supplies	\$0	\$0
E 800-500-49000-305 Medical/physical fees	\$152	\$300
E 800-500-49000-308 Continuing Ed	\$130	\$2,000
E 800-500-49000-311 Contractor Fees	\$2,298	\$0
E 800-500-49000-312 Computer Support	\$0	\$1,250
E 800-500-49000-316 Recorder Fees	\$0	\$150
E 800-500-49000-321 Telephone	\$164	\$500
E 800-500-49000-322 Postage	\$656	\$3,500
E 800-500-49000-331 Travel Expense	\$0	\$0
E 800-500-49000-350 Printing and Binding	\$566	\$700
E 800-500-49000-351 Legal Notice Publishing	\$0	\$50
E 800-500-49000-361 General Liability/Property Ins	\$0	\$7,500
E 800-500-49000-381 Electric/Gas Utility	\$5,595	\$36,000
E 800-500-49000-407 Gopher State One-Call	\$86	\$1,100
E 800-500-49000-420 Depreciation	\$0	\$46,467
E 800-500-49000-430 Miscellaneous	\$39	\$50
E 800-500-49000-433 Dues and Subscriptions	\$0	\$3,500
E 800-500-49000-437 Misc Licenses and Permits	\$0	\$0
E 800-500-49000-438 Vehicle License	\$0	\$0
E 800-500-49000-500 CAPITAL OUTLAY	\$58,375	\$0
E 800-500-49000-570 Office Equipment & Furnishings	\$0	\$200
E 800-500-49000-580 Other Equipment	\$0	\$1,800
E 800-500-49000-585 Water/Sewer Improvements	\$0	\$3,000
E 800-500-49000-588 Water/Sewer Line Maintenance	\$0	\$19,000
E 800-500-49000-611 Bond Interest	\$0	\$0
E 800-500-49000-621 Bond-Fiscal Agent Fee	\$13,000	\$0
E 800-500-49000-720 Transfers Out	\$0	\$2,500
E 831-500-49000-601 Bond Principal	\$44,000	\$44,000
E 831-500-49000-610 DEBT SERVICE - INTEREST	\$1,823	\$3,051
2024 YTD Water Expense	\$170,316.28	\$354,975.09

2024 Sewer Expenses (YTD YTD March 22, 2024)		
Account Description	2024 YTD Total	2024 Budget
E 810-500-49449-101 Full-time Employees-Regular	\$31,336	\$129,308
E 810-500-49449-121 PERA Contributions	\$2,350	\$9,698
E 810-500-49449-122 FICA Contributions	\$1,825	\$8,017
E 810-500-49449-124 Medicare Contributions	\$427	\$1,875
E 810-500-49449-131 Health Insurance	\$12,217	\$29,243
E 810-500-49449-133 Dental Insurance	\$254	\$1,215
E 810-500-49449-134 Life Insurance	\$148	\$637
E 810-500-49449-151 WC Ins. Premium	\$0	\$4,640
E 810-500-49449-200 Office Supplies	\$0	\$300
E 810-500-49449-211 Cleaning Supplies	\$0	\$0
E 810-500-49449-212 Motor Fuels	\$512	\$3,000
E 810-500-49449-214 Shop Materials	\$588	\$4,700
E 810-500-49449-216 Chemical and Chemical Products	\$38	\$13,000
E 810-500-49449-219 General Supplies	\$0	\$2,600
E 810-500-49449-221 Equipment Maintenance/Parts	\$4,033	\$22,500
E 810-500-49449-223 Building Maint/Repair Supplies	\$709	\$1,200
E 810-500-49449-228 Manhole/Storm Sewer Maintenanc	\$6,790	\$50
E 810-500-49449-240 Small Tools and Minor Equip.	\$7,064	\$250
E 810-500-49449-303 Engineering Fees	\$0	\$15,000
E 810-500-49449-305 Medical/physical fees	\$455	\$150
E 810-500-49449-308 Continuing Ed	\$102	\$2,500
E 810-500-49449-311 Contractor Fees	\$0	\$750
E 810-500-49449-312 Computer Support	\$2,298	\$0
E 810-500-49449-316 Recorder Fees	\$0	\$120
E 810-500-49449-321 Telephone	\$754	\$1,700
E 810-500-49449-322 Postage	\$582	\$3,700
E 810-500-49449-331 Travel Expense	\$0	\$200
E 810-500-49449-350 Printing and Binding	\$402	\$800
E 810-500-49449-361 General Liability/Property Ins	\$0	\$7,500
E 810-500-49449-381 Electric/Gas Utility	\$5,738	\$77,000
E 810-500-49449-384 Refuse Disposal	\$228	\$250
E 810-500-49449-404 Mach & Equip Maint. Agreement	\$0	\$100
E 810-500-49449-405 Water/Sewer/Sludge Testing	\$1,806	\$11,500
E 810-500-49449-419 Misc. Maintenance	\$3,433	\$1,500
E 810-500-49449-420 Depreciation	\$0	\$276,110
E 810-500-49449-430 Miscellaneous	\$0	\$50
E 810-500-49449-433 Dues and Subscriptions	\$0	\$3,800
E 810-500-49449-437 Misc Licenses and Permits	\$1,450	\$0
E 810-500-49449-438 Vehicle License	\$209	\$450
E 810-500-49449-500 CAPITAL OUTLAY	\$0	\$6,000
E 810-500-49449-530 Improvements other than Bldgs	\$0	\$900
E 810-500-49449-550 Motor Vehicles	\$0	\$6,000
E 810-500-49449-570 Office Equipment & Furnishings	\$0	\$200
E 810-500-49449-580 Other Equipment	\$0	\$1,100
E 810-500-49449-581 Uniforms	\$0	\$100
E 810-500-49449-585 Water/Sewer Improvements	\$0	\$400
E 810-500-49449-588 Water/Sewer Line Maintenance	\$0	\$700
E 810-500-49449-611 Bond Interest	\$0	\$2,371
E 810-500-49449-615 Lease Principal	\$2,622	\$15,842
E 810-500-49449-616 Lease Interest	\$574	\$3,336
E 810-500-49449-621 Bond-Fiscal Agent Fee	\$13,000	\$0
E 810-500-49449-720 Transfers Out	\$0	\$2,500
2024 YTD Sewer Expense	\$101,944.67	\$674,860.11

Utilities Commission

5) 1)

Meeting Date: 04/01/2024

ITEM TITLE: Pump Repairs

DEPARTMENT: Administration

PURPOSE:

ITEM SUMMARY:

This is an estimate to replace 2 old sewage pumps at the plant, one is for raw and one is for ras. There are 3 sets of pumps at the plant the other two have been replaced in the past and this will be updating the 3rd set.

Attachments

Goetsch Estimate

Pat Mueller

From: Steve Green <SGreen@wwgoetsch.com>
Sent: Wednesday, February 28, 2024 4:44 PM
To: Pat Mueller
Subject: Parts and pumps
Attachments: Wabasha NEW RAW pump proposal.pdf; Fairbanks Builttogether bullet.pdf; Wabasha NEW RAW curve.pdf; Wabasha Replacemet RAS pump only.pdf

Fairbanks RAS pumps.

T4C17D 9630F impeller wear ring.....\$939.00

T4C16AF 9630F volute wear ring.....\$782.00

HYD33A4 0010F can of 5 rings of packing.....\$195 (probably want 2 or 3 cans)

Aurora RAW pumps, 4x4x9B 650 series

2- 676-2064-108...impeller and case wear rings are the same. \$1664.00 each

564-0114-802 packing.....\$56.00 per ring

364-1324-803 case gasket.....\$33.00

New RAW pump. *New Raw Pump*

Fairbanks 4" Model B5432K, Vertical Bilttogether Pump

With mechanical seal, 3HP, 1200rpm 3/60/230-460v ODP motor.....\$12,992.00

Freight included.

Install estimate is \$3,879.00 includes fittings and labor.

New RAS pump

Fairbanks **direct replacement** 4" B5442K pump only with mechanical seals, stainless steel wear rings.

(reuse the 4" base, suction elbow and motor / coupling.....\$15,951.00

Includes freight.

Estimate to install pump.....\$2400.00

Seal change on the RAS pump:

Parts.....\$423.00 includes freight

Labor.....Estimated at \$1500.00

New Ras Rebuild

Thank you!

Dominus vobiscum!

WWGOETSCH
ASSOCIATES, INC.

Steven P. Green

Sales Engineer

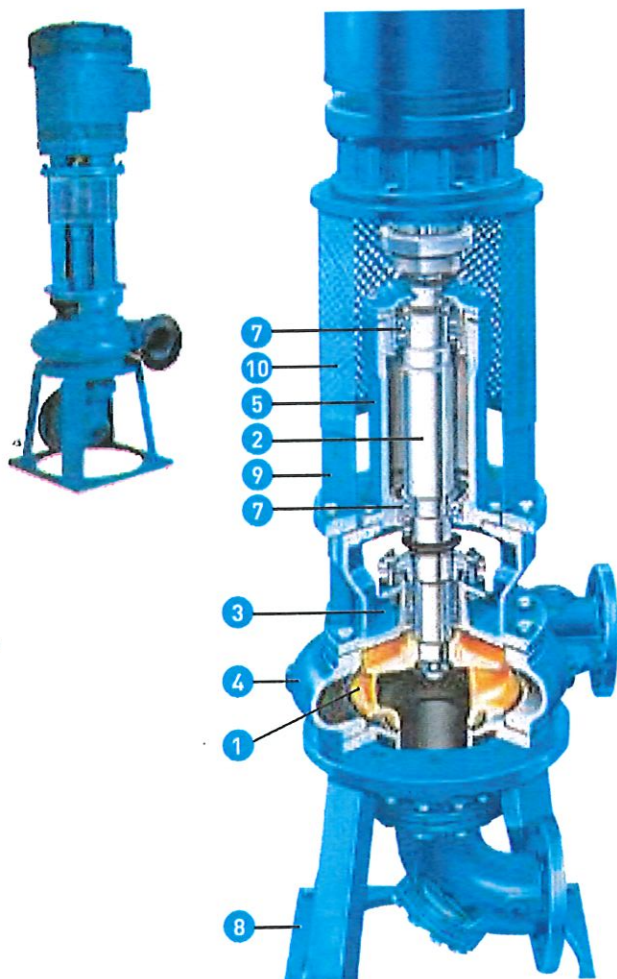
952-374-6471 direct office

612-325-7550 mobile

MCR-182151-H

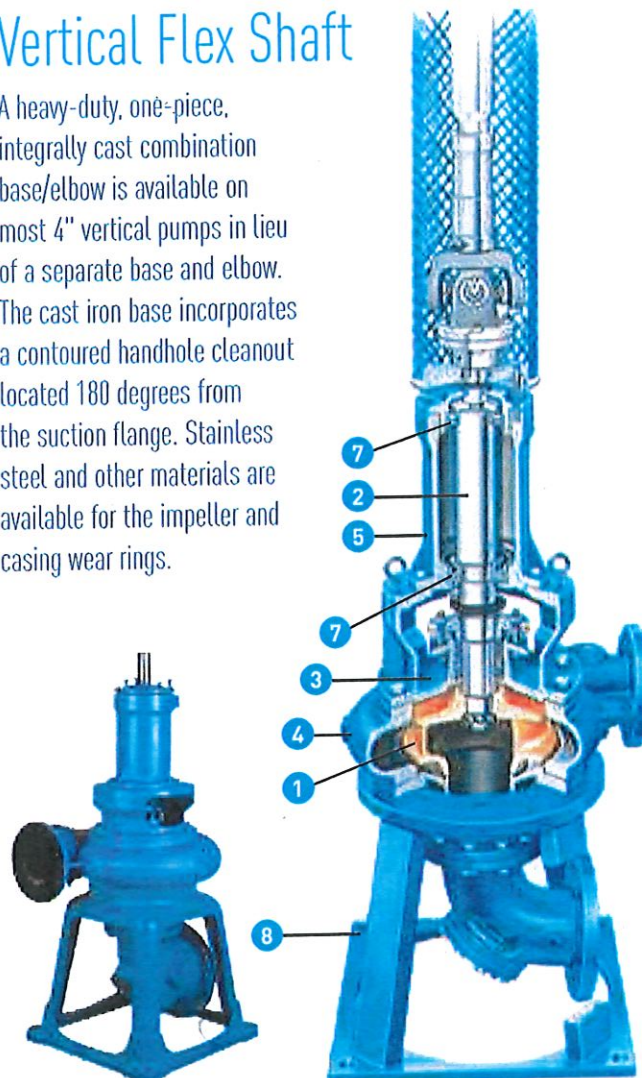
Pump Features

Vertical Close-coupled



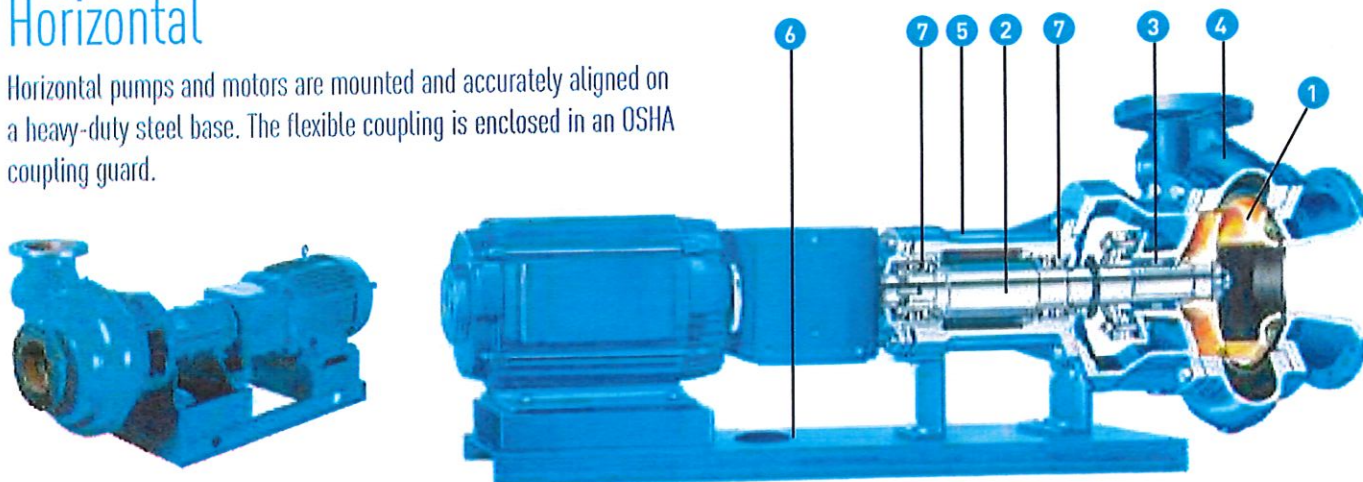
Vertical Flex Shaft

A heavy-duty, one-piece, integrally cast combination base/elbow is available on most 4" vertical pumps in lieu of a separate base and elbow. The cast iron base incorporates a contoured handhole cleanout located 180 degrees from the suction flange. Stainless steel and other materials are available for the impeller and casing wear rings.



Horizontal

Horizontal pumps and motors are mounted and accurately aligned on a heavy-duty steel base. The flexible coupling is enclosed in an OSHA coupling guard.



Utilities Commission

5) 2)

Meeting Date: 04/01/2024

ITEM TITLE: Eagles Basin PUD

DEPARTMENT: Administration

PURPOSE:

Please review the attached staff report from City Planner Kristi Trisko and provide any comments or concerns on the proposed PUD.

ITEM SUMMARY:

Attachments

Eagles Basin PUD Staff Memo



TO: STREET AND UTILITY COMMISSION
FROM: KRISTI TRISKO, PLANNING CONSULTANT
SUBJECT: EAGLES BASIN TOWNHOMES – 13 LOTS, 12 TOWNHOMES AND 1 SHARED LOT
DATE: 3/29/24

Applicant: Bigelow Homes, LLC
Owner: SE MN MULTI-COUNTY HRA
Location: Approximately 1145 21st St
R27.01476.00

An application for an amendment for Outlot B within the Eagles Basin PUD has been submitted by Bigelow Homes, LLC to develop 12 townhomes with one (1) shared common open space lot on the eastern end of Eagles Basin.



Details of the Preliminary Plan:

Property Acreage: 1.82 acres or 79,282 square feet
Applicant Request: To allow for the development of 12 townhome units on Outlot B with a private road connecting to Aire Avenue.
Bike Path: The existing bike path will remain along with access to the water tower from Aire Avenue.
Utilities: All public facilities will be constructed per City Standards and are detailed in the Preliminary PUD Plans.
Emergency Turnaround: 60' hammerhead turnaround at the end of the private street
Parkland Dedication Fee: A parkland dedication fee of \$500.00 per lot will be assessed to each lot for a total of \$6,000.00 and will be defined in the development agreement.
Utility Connection: The applicant has designed a connection to the public water and sewer mains on 21st Street East, which has been reviewed by Brian Malm.
Lot Access: The 12 townhomes will gain access to their lots by a connection to 21st Street through a 32' vacation of Aire Avenue, ending in a private driveway. See the attached plans and vacation exhibit and description.
Development Agreement: A draft development agreement has been completed and a copy will be sent to the owners for their review.

Action ITEM: The Utility and Street Commission is asked to provide comments and/or recommendations for the Eagles Basin Townhome Preliminary and Final PUD Plans and Plat to staff to be share with the Planning Commission and City Council.

"OFFICIAL PLAT"
EAGLES BASIN TOWNHOMES

INSTRUMENT OF DEDICATION

KNOW ALL PERSONS BY THESE PRESENTS: That Bigelow Homes LLC, a Minnesota limited liability company, owner, of the following described property located in the City of Wabasha, County of Wabasha, State of Minnesota.

Outlot B, EAGLES BASIN, according to the recorded plat thereof on file and of record in the office of the County Recorder, Wabasha County, Minnesota.

AND

That part of Aire Avenue and that part of 21st Street, all in EAGLES BASIN, according to the recorded plat thereof, on file at the office of the County Recorder, Wabasha County, Minnesota, described as follows:

Beginning at the southeast corner of Outlot B, said EAGLES BASIN; thence on an assumed bearing of North 24°37'31"West, along the east line of said Outlot B, 225.81 feet to the northeast corner of said Outlot B; thence South 75°44'13"East 41.11 feet; thence South 24°37'31"West 200.00 feet; thence South 65°22'29"West 32.00 feet to the point of beginning.

Has caused the same to be surveyed and platted as EAGLES BASIN TOWNHOMES and does hereby dedicate to the public for the public use the utility easements as created by this plat.

In witness whereof said Bigelow Homes LLC, a Minnesota limited liability company, have hereunto set their hands this _____ day of _____, 202__.

Tony Bigelow, Chief Manager

STATE OF MINNESOTA
COUNTY OF _____

This instrument was acknowledged before me on _____ by said Bigelow Homes LLC.

_____(Sign)
Notary Public, _____ County, Minnesota
My Commission expires: _____

I, Geoffrey G Griffin, do hereby certify that this plat was prepared by me or under my direct supervision; that I am a duly Licensed Land Surveyor in the State of Minnesota; that this plat is a correct representation of the boundary survey; that all mathematical data and labels are correctly designated on this plat; that all monuments depicted on this plat have been correctly set; that all water boundaries and wet lands, as defined in Minnesota Statutes, Section 505.01, Subd. 3, as of the date of this certificate are shown and labeled on this plat; and all public ways are shown and labeled on this plat.

Dated this ____ day of _____, 202__.

Geoffrey G Griffin, Licensed Land Surveyor
Minnesota License Number 21940

STATE OF MINNESOTA
COUNTY OF _____

This instrument was acknowledged before me on this _____ by Geoffrey G Griffin, Licensed Land Surveyor, Minnesota Licensed Number 21940.

_____(Sign)
Notary Public, _____ County, Minnesota
My commission expires: _____

CITY COUNCIL, CITY OF WABASHA, MINNESOTA

This Plat of EAGLES BASIN TOWNHOMES was approved and accepted by the City Council of the City of Wabasha, Minnesota at a regular meeting thereof held this _____ day of _____, 202__, as said plat is in compliance with the provisions of Minnesota Statutes, Section 505.03.

By _____, City Clerk

COUNTY SURVEYOR, WABASHA COUNTY, MINNESOTA

I hereby certify that in accordance with Minnesota Statutes, Section 505.021, Subd. 11, this plat has been reviewed and approved this _____ day of _____, 202__.

Marcus S. Johnson, Wabasha County Surveyor
Minnesota License No. 47460

COUNTY AUDITOR/TREASURER, WABASHA COUNTY, MINNESOTA

Pursuant to Minnesota Statutes, Section 505.021, Subd. 9, taxes payable in the year 202__ on the land hereinbefore described have been paid. Also, pursuant Minnesota Statutes, Section 272.12, there are no delinquent taxes and transfer entered this _____ day of _____, 202__.

Wabasha County Auditor/Treasurer

COUNTY RECORDER, WABASHA COUNTY, STATE OF MINNESOTA

I hereby certify that this plat of EAGLES BASIN TOWNHOMES was filed in the office of the County Recorder for public record on this _____ day of _____, 202__, at _____ o'clock ____ M., and was duly filed as Document No. _____.

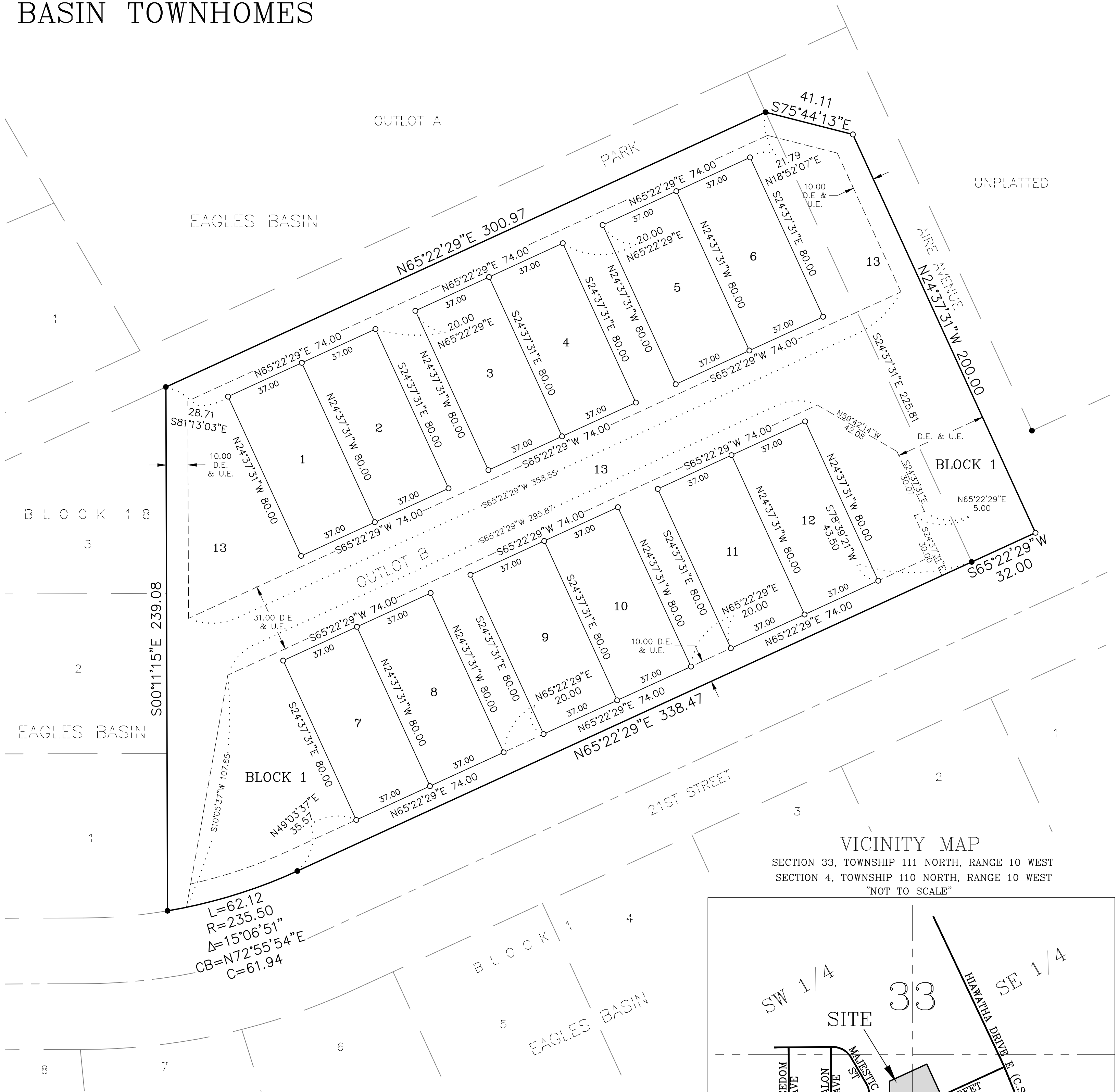
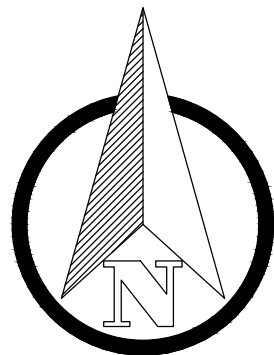
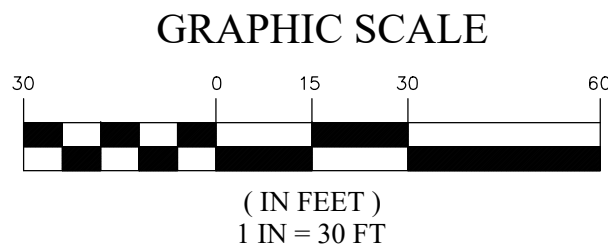
Wabasha County Recorder

By _____, Deputy

LEGEND

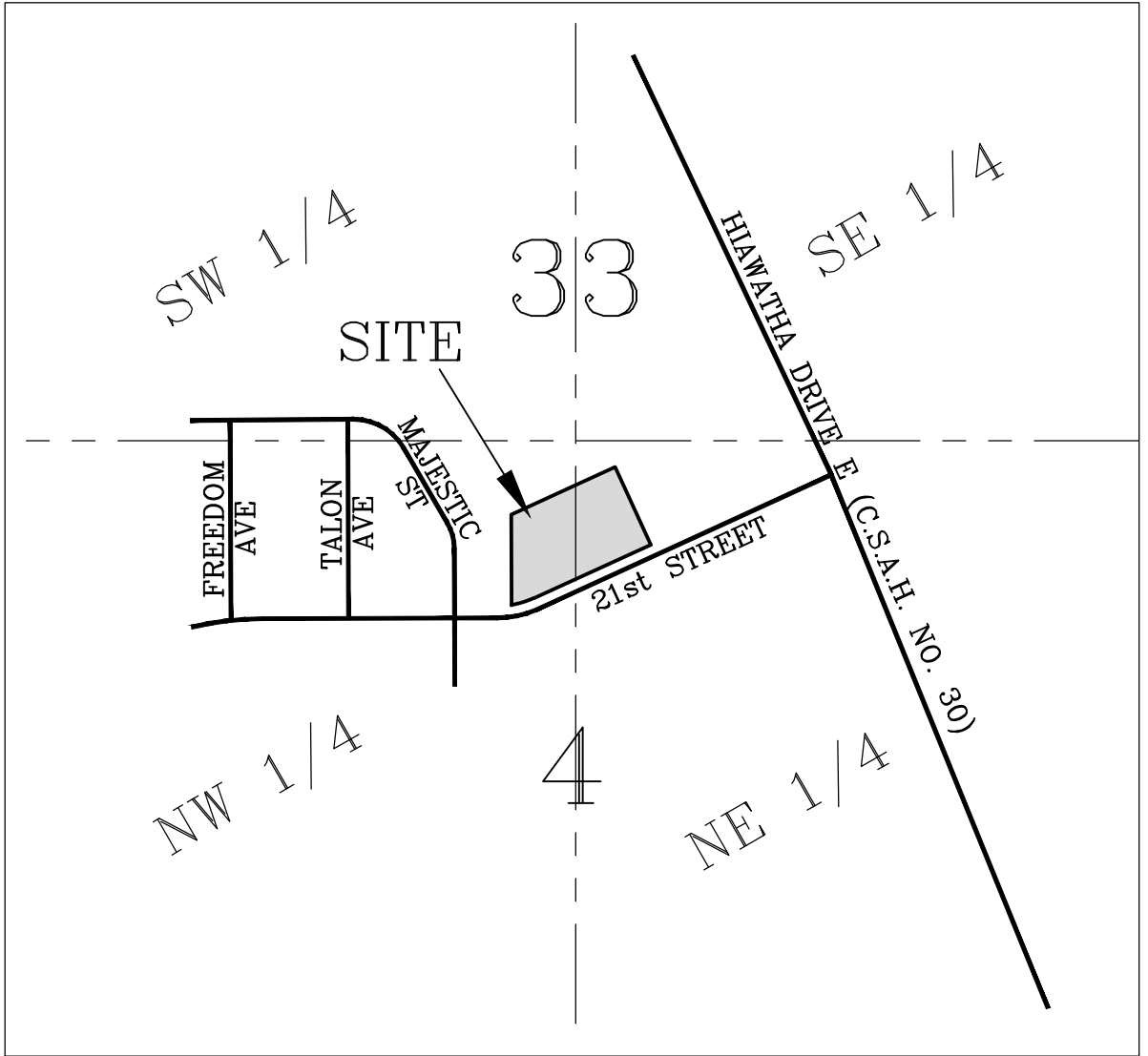
- SET 1/2 INCH IRON PIPE WITH PLASTIC CAP STAMPED LS 21940
- FOUND MONUMENTS ARE 1/2 INCH IRON PIPES UNLESS OTHERWISE NOTED

10' ———
↑
DRAINAGE AND UTILITY EASEMENTS ARE 10 FEET IN WIDTH ADJACENT TO LOT LINES UNLESS OTHERWISE SHOWN.



VICINITY MAP

SECTION 33, TOWNSHIP 111 NORTH, RANGE 10 WEST
SECTION 4, TOWNSHIP 110 NORTH, RANGE 10 WEST
"NOT TO SCALE"



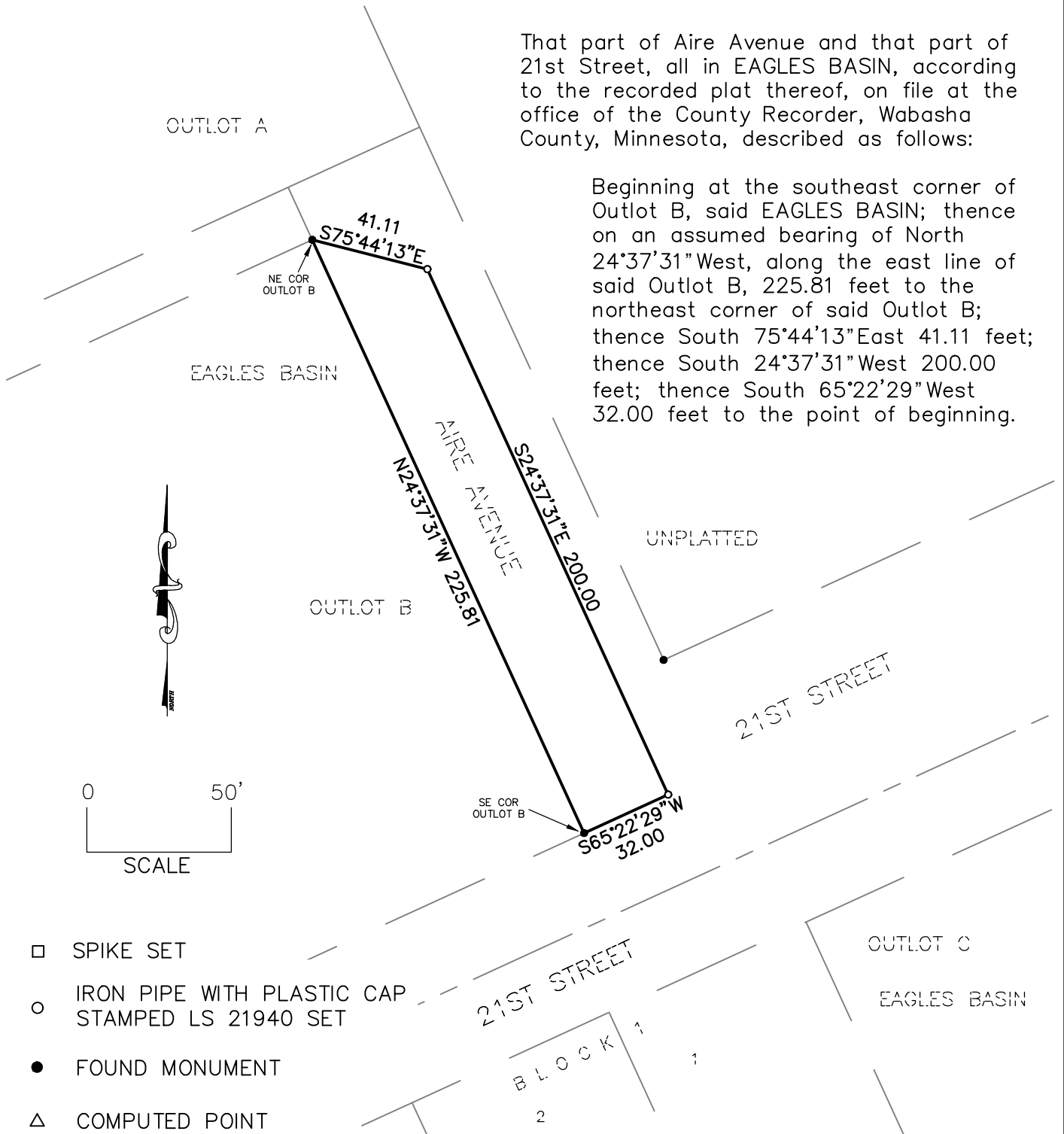
VACATION EXHIBIT

SECTION 4

T. 110 N., R. 10 W.

That part of Aire Avenue and that part of 21st Street, all in EAGLES BASIN, according to the recorded plat thereof, on file at the office of the County Recorder, Wabasha County, Minnesota, described as follows:

Beginning at the southeast corner of Outlot B, said EAGLES BASIN; thence on an assumed bearing of North $24^{\circ}37'31''$ West, along the east line of said Outlot B, 225.81 feet to the northeast corner of said Outlot B; thence South $75^{\circ}44'13''$ East 41.11 feet; thence South $24^{\circ}37'31''$ West 200.00 feet; thence South $65^{\circ}22'29''$ West 32.00 feet to the point of beginning.



- SPIKE SET
- IRON PIPE WITH PLASTIC CAP
STAMPED LS 21940 SET
- FOUND MONUMENT
- △ COMPUTED POINT

I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA

Geoffrey G. Griffin

DATE 2/8/2024 REG. NO. 21940

G³

G-Cubed

14070 Hwy 52 S.E.
Chatfield, MN 55923

ENGINEERING
SURVEYING
PLANNING

Ph. 507-867-1666
Fax 507-867-1665
www.ggg.to

DATE OF SURVEY: 2-8-2024

Prepared For:

BIGELOW HOMES LLC

4057 28TH STREET NW

ROCHESTER, MN 55901

SHEET 1 OF 1 | FILE NO: 23-229

WARNING
BEFORE DIGGING CALL GOPHER
STATE ONE CALL FOR LOCATIONS.
DIAL - 1-800-252-1166
REQUIRED BY LAW

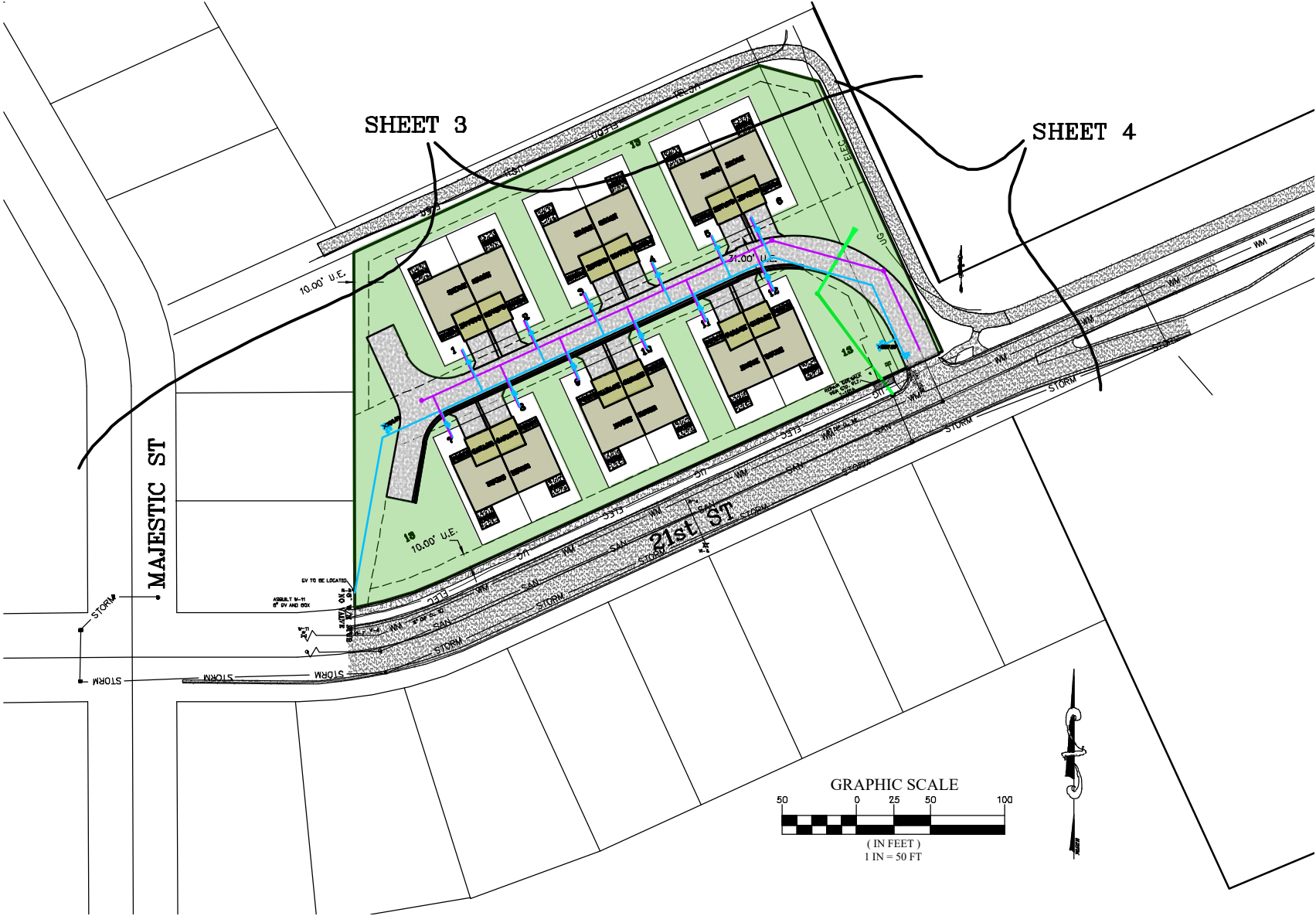
CONSTRUCTION PLANS FOR PUBLIC IMPROVEMENTS TO SERVE EAGLES BASIN TOWNHOMES

APPROVED BY _____ DATE _____
CITY ENGINEER

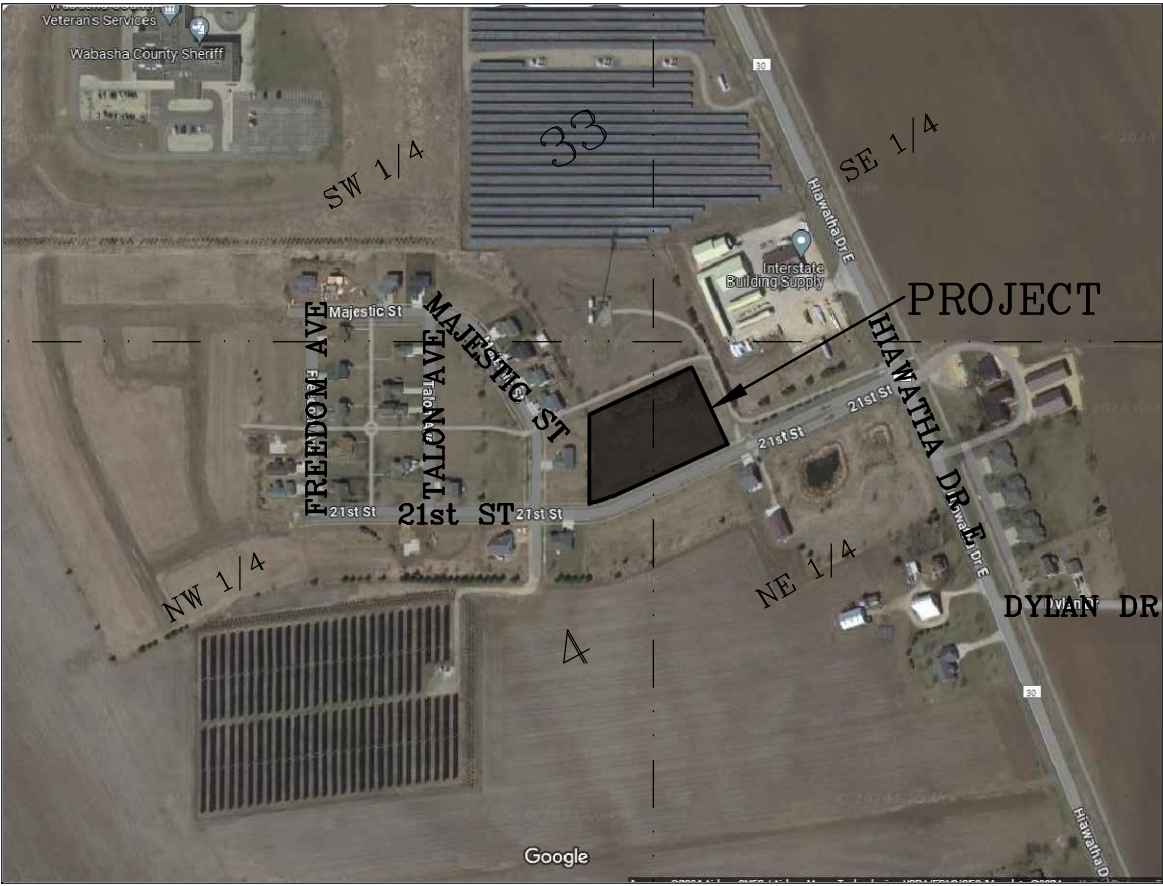
SHEET INDEX

SHEET 1	TITLE SHEET, SHEET INDEX, & VICINITY MAP
SHEET 2	GENERAL NOTES, LEGEND, TYPICAL SECTIONS, SERVICE & UTILITY SCHEDULES
SHEET 3	STREET PLAN & PROFILE FOR PRIVATE ROAD
SHEET 4	OFFSTREET PLAN & PROFILE FOR STORM
SHEET 5-6	CITY STANDARD PLATES
SHEET 7-8	SWPPP

SHEET G1-G2 GRADING PLAN



VICINITY MAP
T. 110 N., R 10 W., SEC. 4
"NOT TO SCALE"



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Mark R. Welch
DATE 3/27/2024 REG. NO. 42736

DATE: 1/25/2024
Prepared For:
BIGELOW HOMES
4057 28TH STREET NW
ROCHESTER, MN 55901
FILE NO.: 23-229 GP & CP

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DESIGNED JWK
DRAWN ADB
CHECKED MRW

REVISED	BY	DATE
PRELIMINARY	ADB	2/8/2024
BID QUANTITIES	ADB	3/5/2024
RESUBMITTAL	ADB	3/27/2024

CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
TITLE SHEET

**BEFORE DIGGING CALL GOPHER
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REQUIRED BY LAW**






WATER HYDRANT & GATE VALVE
 SANITARY MANHOLE
 STORM MANHOLE & CATCHBASIN
 SIGNS

COMMUNICATIONS
ELECTRIC BOILERS

TREE

MINOR CONTOUR
WATERMAIN

STORM SEWER

UNDERGROUND ELECTRIC L
UNDERGROUND COMMUNICA

GAS LINE

WATER SERVICE

PROPOSED MAJOR CONTROLS
PROPOSED MINOR CONTROLS

PROPOSED MINOR CONTOUR
EASEMENT LINE

BITUMINOUS SUR

BITUMINOUS SURFACING

CONCRETE SURFACING

BUILDING

PROPOSED BITUMINOUS SURFACING

PROPOSED BY: MEMBERS OF CONGRESS

Eagle Basin Townhomes Sanitary Sewer														2/1/2024
Structure				Structure	Structure	Pipe	Pipe	Pipe			Neenah	Downstream	Downstream	Other Inverts
Number	Rim	Inv In	Inv Out	Type	Depth	Length	Size	Slope	Alignment	Station - Offset	Casting	Inv In	Structure	& Notes
MH No.1	697.45	688.30	688.20	PER PLATE NO. 5-000	9.25	57.61	8" PVC	0.40%	Private Road	15+20.48 - 10.00' LT	R-1733	687.97	Ex. Plug	Sheer Band or Rigid Sleeve
MH No.2	697.99	688.71	688.61		9.38	78.24	8" PVC	0.40%	Private Road	14+48.02 - 9.26' LT	R-1733	688.30	MH No.1	
MH No.3	699.05		689.77		9.28	259.95	8" PVC	0.41%	Private Road	11+90.34 - 5.50' LT	R-1733	688.71	MH No.2	
Ex. Stub No.1			687.97			38.95	8" PVC	0.13%	Private Road	15+75.04 - 1.37' LT	R-1733	687.92	Ex. MH No.2	

ALL SANITARY SEWER PIPE SHALL BE D-3034 PVC PIPE, SDR 35

EAGLE BASIN TOWNHOMES WATERMAIN NOTES				
NUMBER	STATION	Alignment	ITEMS	BREAKOFF ELEV / INVERT
W-1	10+46.86 - CL	Private Road	REMOVE PLUG & CONNECT TO EXISTING, F&I 6" - 11.25" BEND	Field Verify
W-2	11+53.01 - CL	Private Road	F&I: 6" - 45" BEND	691.70
W-3	11+55.85 - 4.11' R	Private Road	F&I: 6"x6" TEE, 6" GATE VALVE - 3.00' NORTH, 6" HYDRANT - 6.00' NORTH	699.71
W-4	14+47.22 - 2.42' R	Private Road	F&I: 6" - 45" BEND	690.69
W-5	15+20.48 - 2.13' R	Private Road	F&I: 6" - 45" BEND	690.56
W-6	15+62.57 - 9.79' R	Private Road	F&I: 6"x6" TEE, 6" GATE VALVE - 10.00' WEST, 6" HYDRANT - 13.00' WEST	698.02
W-7	15+75.15 - 9.63' R	Private Road	REMOVE PLUG, F&I 6" GATE VALVE, & CONNECT TO EXISTING	Field Verify

Eagle Basin Townhomes Storm Sewer Construction Notes														
Structure Number	Structure Type	Casting Elevation (Center of Grate)	Structure Inlet Elevation	Structure Outlet Elevation	Build	Linear Footage	Pipe Size	Gradient Percent	Flow to Structure Inlet Number	Downstream Structure Inlet Elevation	Station	Offset from CL alignment	Alignment	Notes / Other Inverts
Inlet 1	12" Apron			695.21		50.54	12" SCH. 40 PVC	2.39%	Inlet 2	694.00	10+00.00	CL	Storm	Private
Inlet 2	18" Nyloplast	696.50	694.00	693.67	2.83	84.71	16" SCH. 40 PVC	0.55%	EX ST-7	693.20	10+50.54	CL	Storm	Private - Nyloplast 18" Drain Basin w/ Pedestrian Grate

SERVICES	C/L Align. Sta.	C/L Align. Sta. OS	C/L Align & OS	Service Inv.	End Stub Elev	Depth At End	Notes	Riser	Slope to service stub
	(@San. Wye)	(@San. Wye)	(@ curb stop)	(@ end stub)	(CS + 1)	Stub (in feet)		**	
BLOCK 1									
LOT 1	12+29.17	5.50' L	12+29.17 - 15.50' L	690.88	699.64	8.76			2%
LOT 2	12+75.67	5.50' L	12+75.67 - 15.50' L	690.69	699.51	8.82			2%
LOT 3	13+19.67	5.50' L	13+19.67 - 15.50' L	690.51	699.31	8.80			2%
LOT 4	13+69.67	5.50' L	13+69.67 - 15.50' L	690.31	699.17	8.86			2%
LOT 5	14+13.67	5.50' L	14+13.67 - 15.50' L	690.13	698.91	8.78			2%
LOT 6	14+41.83	7.54' L	14+40.09 - 17.34' L	690.01	698.92	8.91			2%
LOT 7	11+98.34	5.50' L	11+98.34 - 15.50' R	691.23	699.49	8.26			2%
LOT 8	12+48.34	5.50' L	12+48.34 - 15.50' R	691.02	699.39	8.37			2%
LOT 9	12+92.34	5.50' L	12+92.34 - 15.50' R	690.84	699.15	8.31			2%
LOT 10	13+42.34	5.50' L	13+42.34 - 15.50' R	690.64	699.01	8.37			2%
LOT 11	13+86.34	5.50' L	13+86.34 - 15.50' R	690.46	698.75	8.29			2%
LOT 12	14+35.51	6.35' L	14+38.95 - 14.40' R	690.25	699.26	9.01			2%

QUANTITY	SIGN / DEVICE	MUTCD NUMBER	SIZE	COLOR
1		R1-1	30"x30"	RED / WHITE
1	PRIVATE ST. DESIGNATION	D3-1	10" HIGH	GREEN / WHITE

Diagram illustrating the cross-section of a road construction, showing the layers and dimensions:

- 7" CONCRETE SURFACING**
- 5" CLASS 5 AGGREGATE BASE**
- 12" SELECT GRANULAR**
- MNDOT CLASS 7 GEOTEXTILE FABRIC**

Dimensions and Slopes:

- Overall width: 10.00'
- Overall height: 5.50' U.E.
- Top surface slope: 2.0% (North and South)
- Aggregate base slope: 3.0% (North and South)
- Geotextile fabric offset: 0.5'

- ALL CURB STOPS LOCATED IN DRIVEWAYS SHALL HAVE CURB BOX COVERS (PER ROCHESTER STD. PLATE 1-10). CLEANOUTS IN DRIVEWAYS OR PAVEMENT SHALL ALSO HAVE THE CURB BOX COVERS.
- CLEANOUTS SHALL BE INSTALLED PER ROCHESTER STD. PLATE 1-06.
- CURB STOPS SHALL BE LOCATED AT THE PROPERTY LINE.
- PRIVATE WATER SERVICES SHALL BE 1" CORPORATION, TYPE K COPPER TO THE 1" CURB STOP AND 1" P.E. WITH TRACER WIRE PER RURAL WATER TRACER WIRE DETAILS, SEE CITY DETAIL PLATE 6-101. PRIVATE SANITARY SERVICES SHALL BE 4" PVC SCHEDULE 35.
- WATER SERVICES SHALL BE 7' MIN. (10' MAX.) COVER.

- THE MOST RECENT EDITION OF THE CITY OF WABASHA STANDARD DETAILS AND SPECIFICATIONS, THE MOST RECENT EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SUBJECT TO ANY AMENDMENTS, ALONG WITH ANY DESIGN CRITERIA LOCATED WITHIN THE WABASHA COUNTY ZONING ORDINANCE, UNLESS OTHERWISE SPECIFIED WITHIN THIS PLAN.
- CONTRACTOR SHALL OBTAIN ALL UTILITY CONNECTION PERMITS FROM THE CITY PUBLIC WORKS DEPARTMENT.
- WATER SERVICE INSTALLATIONS SHALL CONFORM TO THE CURRENT VERSION OF THE MINNESOTA PLUMBING CODE CHAPTER 4715 AS ADOPTED BY THE CITY AND THE REQUIREMENTS OF RPU RULES AND REGULATIONS.

- PIPE ELEVATIONS AT THE BOTTOM OF THE PROFILES ARE INVERT ELEVATIONS
- ALL PIPE LENGTHS SHOWN ARE LINEAR FEET FROM CENTER OF STRUCTURE/FITTING TO CENTER OF STRUCTURE/FITTING
- CENTER WATERMAIN PIPES AT CROSSINGS WITH STORM & SANITARY PIPES
- WATERMAIN BEND NOTES ARE WHERE THE BEND IS LESS THAN HALF OF THE 11.25° BEND AND CAN BE ACCOMPLISHED BY ANGLING SECTIONS OF PIPE TO ACHIEVE THE ANGLE.
- ALL WATER MAIN IS PUBLIC AND ALL WATER SERVICES ARE PRIVATE UNLESS OTHERWISE NOTED.
- ALL CROSSINGS WITH W/M ARE REQUIRED TO HAVE 18" MIN. VERTICAL SEPARATION. IF 18"-24" VERTICAL SEPARATION BETWEEN W/M AND STORM SEWER, CONTRACTOR TO F&I 4" POLYSTYRENE INSULATION.
- LIGHT POLES AND ELECTRIC PEDESTAL LOCATIONS ARE APPROXIMATE AND SHOULD ONLY BE USED FOR REFERENCE
- ALL STORM SEWER AND STORMWATER MANAGEMENT FACILITIES ARE PRIVATE.
- TRACER WIRE REQUIRED ON SANITARY SEWER AND WATERMAIN PER RURAL WATER TRACER WIRE DETAILS FOUND ON SHEETS 5 & 6.

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AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA.

Mark R Welch MARK R WELCH
DATE 3/27/2024 REG. NO. 42736

Prepared For:

4057 28TH STREET NW

ROCHESTER, MN 55901

G³

G-Cubed

14070 Hwy 52 S.E.
Chatfield, MN 55923

ENGINEERING
SURVEYING
PLANNING

Ph. 507-867-1666
Fax 507-867-1665
www.ggg.to

JWK

ADB

MRW

BY

/8/20

/5/20

1/27/20

27/28

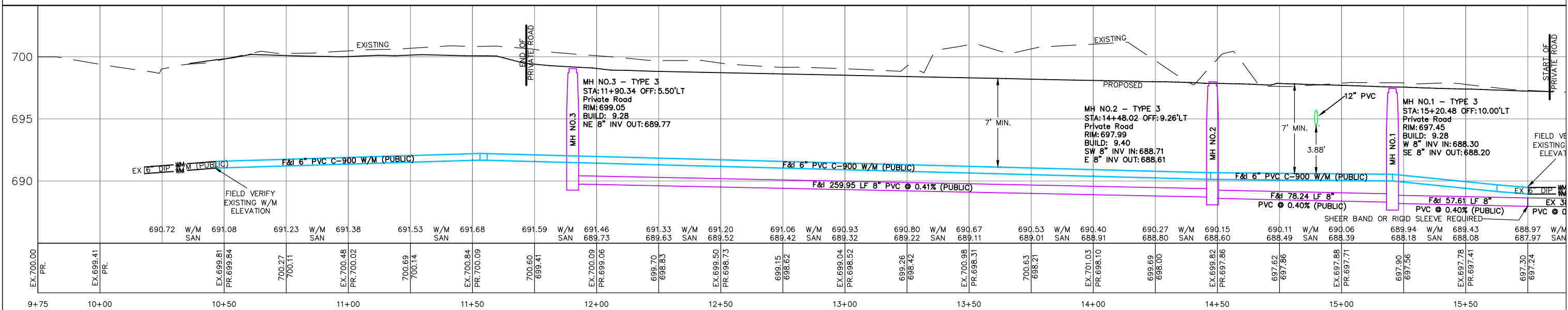
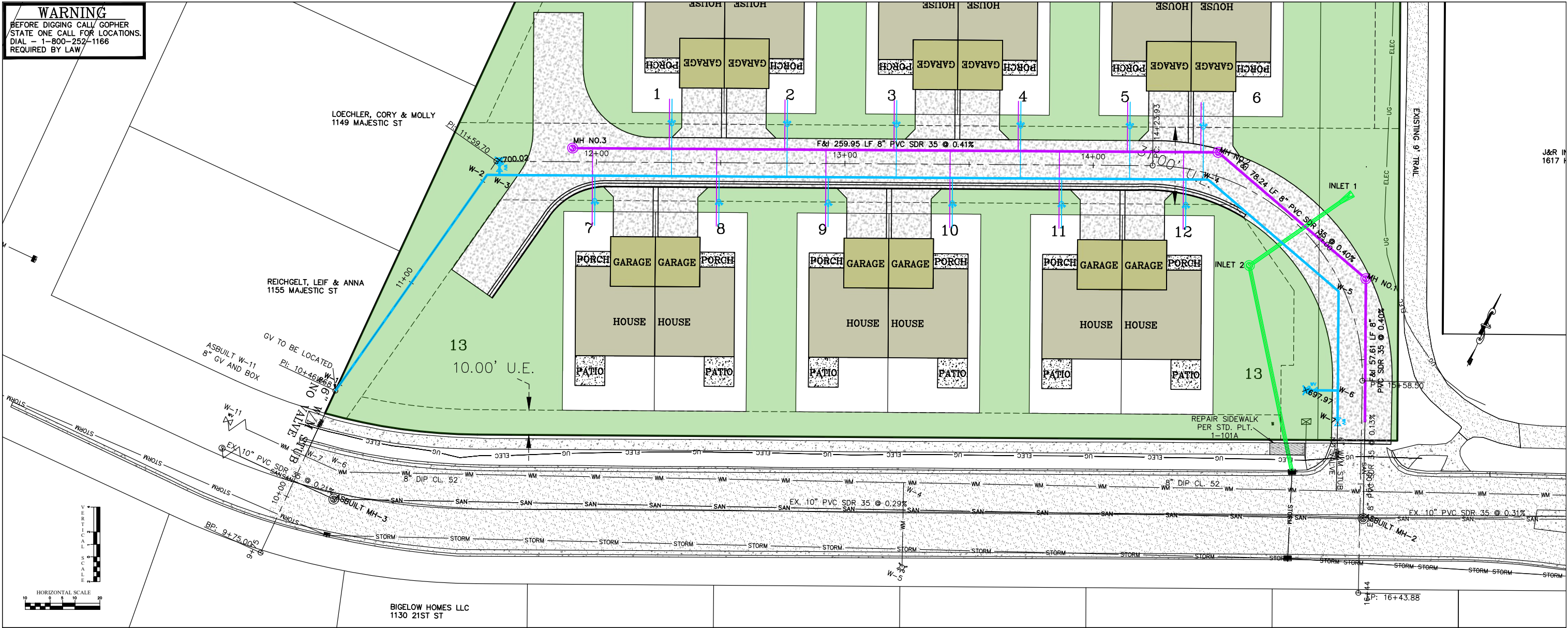
CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES

NOTES, TYPICALS, & UTILITY SCHEDULES

SHEET 2
OF 10 SHEETS

WARNING
BEFORE DIGGING CALL Gopher
STATE ONE CALL FOR LOCATIONS.
DIAL - 1-800-252-1166
REQUIRED BY LAW



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DATE: 3/27/2024 REG. NO. 42736

DATE: 1/25/2024
Prepared For:
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4057 28TH STREET NW
ROCHESTER, MN 55901
FILE NO.: 23-229 GP & CP

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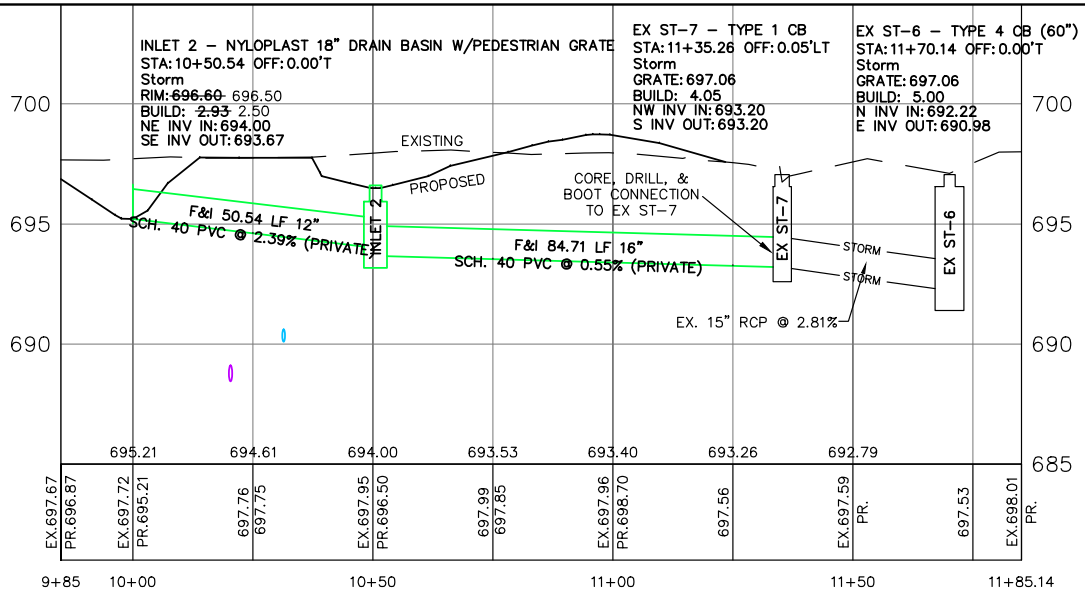
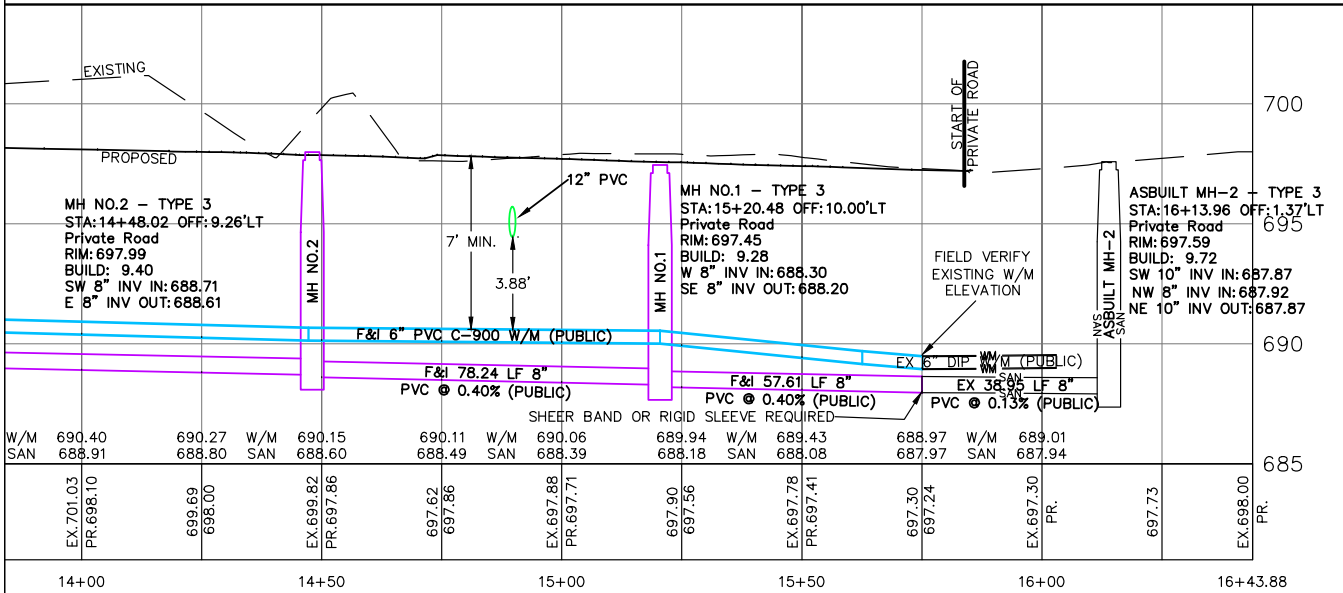
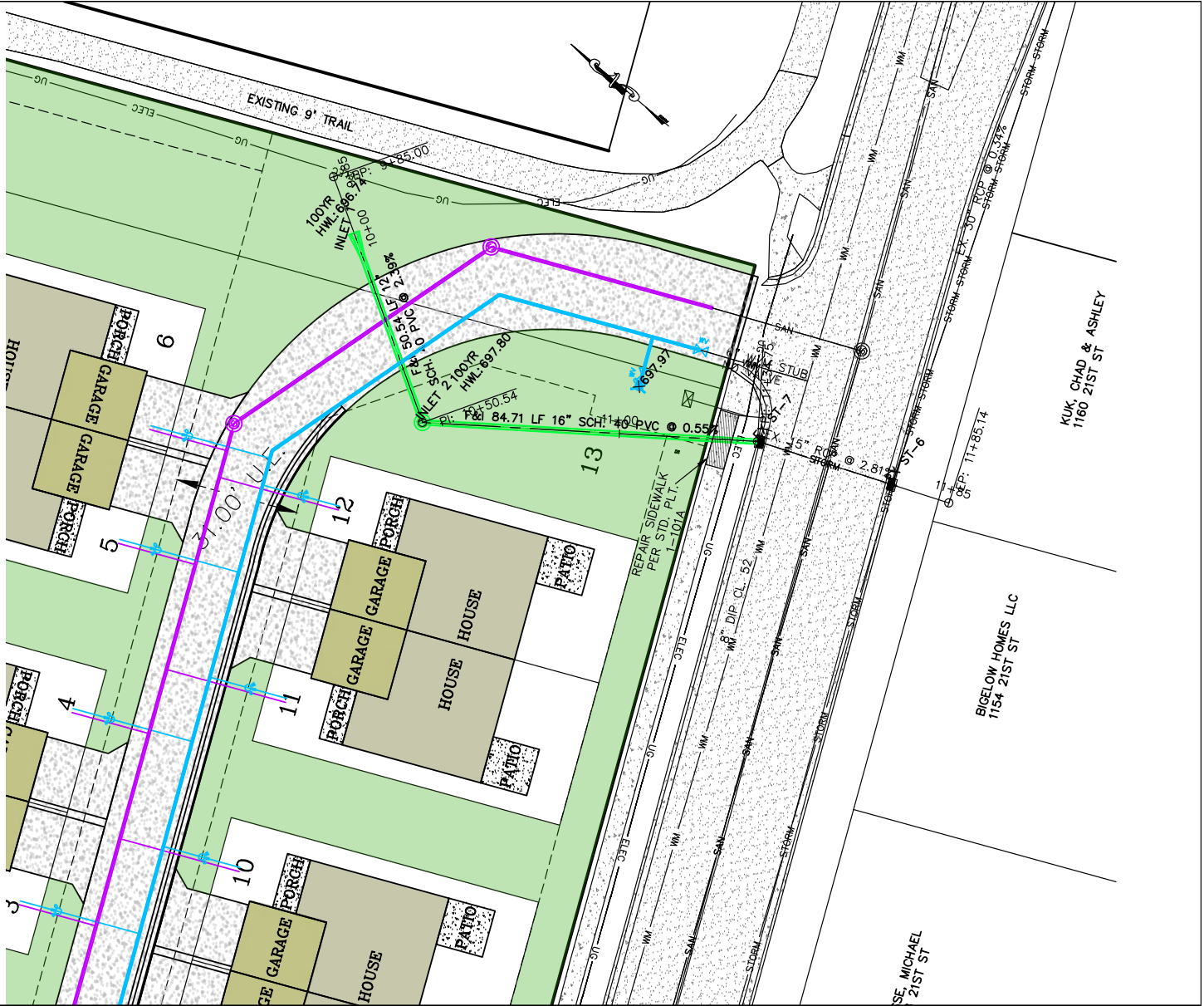
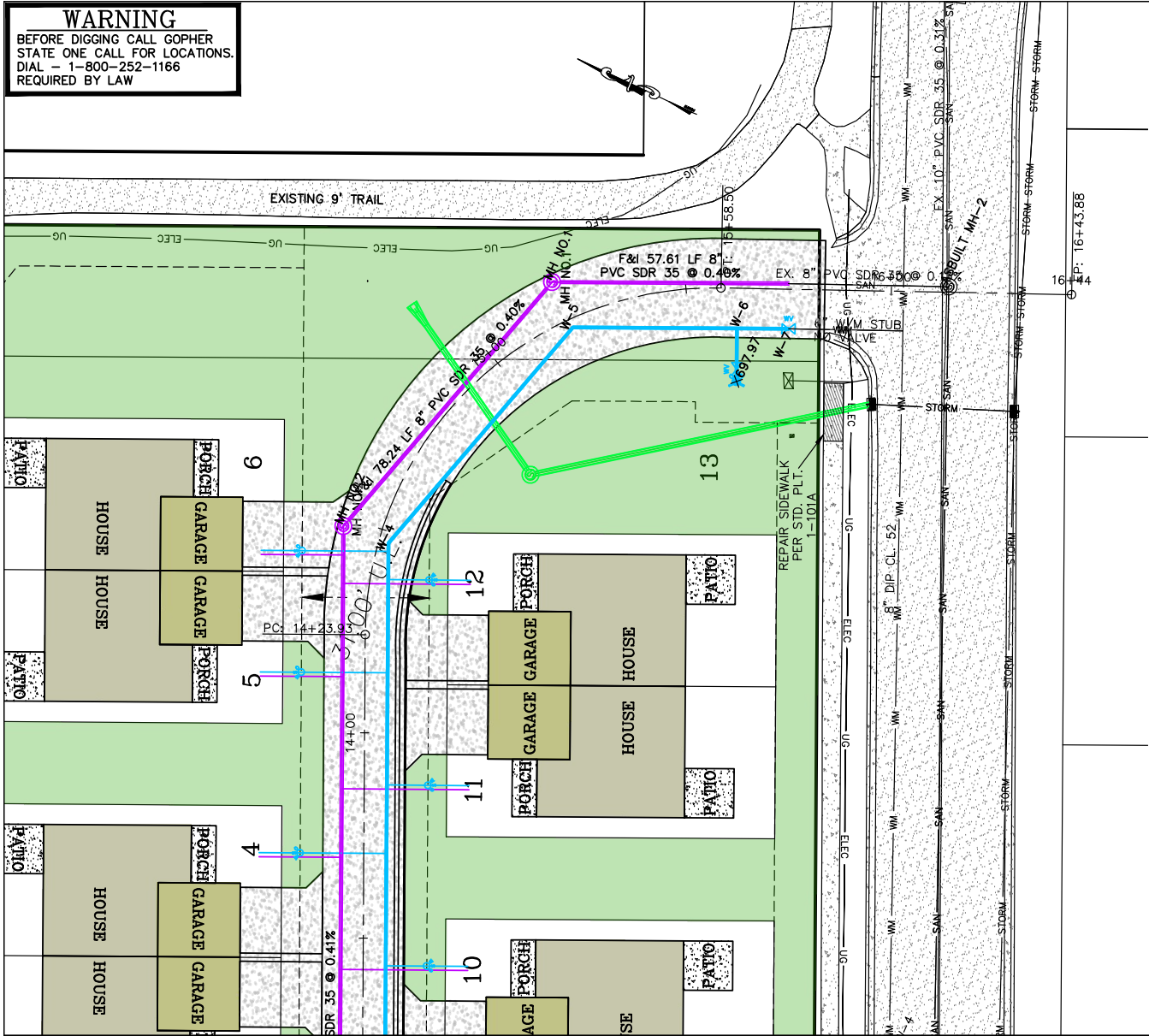
DESIGNED: JWK
DRAWN: ADB
CHECKED: MRW

REVISED	BY	DATE
PRELIMINARY	ADB	2/8/2024
BID QUANTITIES	ADB	3/5/2024
RESUBMITTAL	ADB	3/27/2024

CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
PRIVATE ROAD PLAN & PROFILE
SHEET 3
OF 10 SHEETS

WARNING
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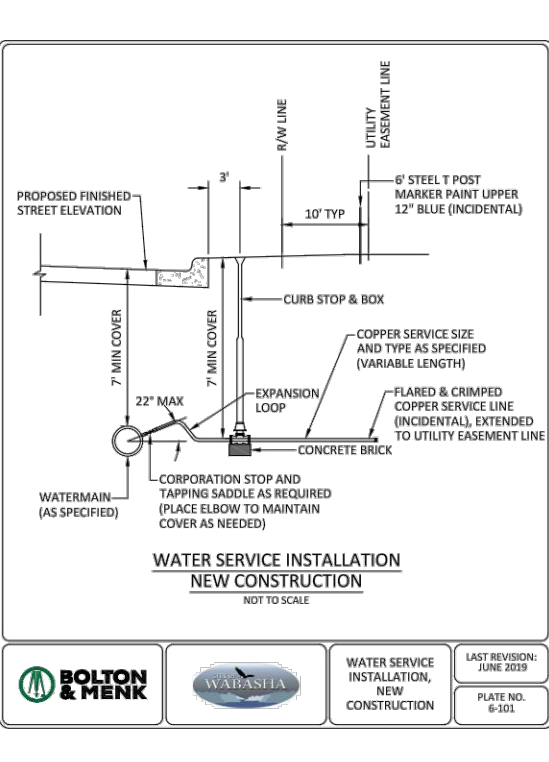
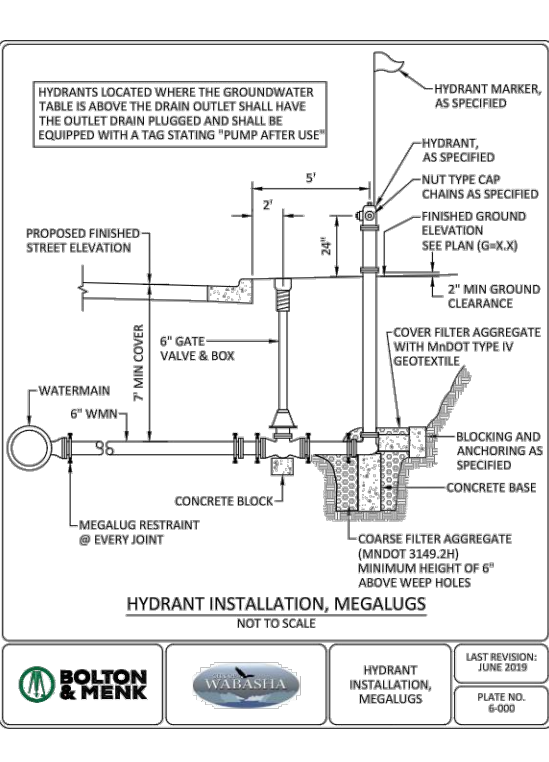
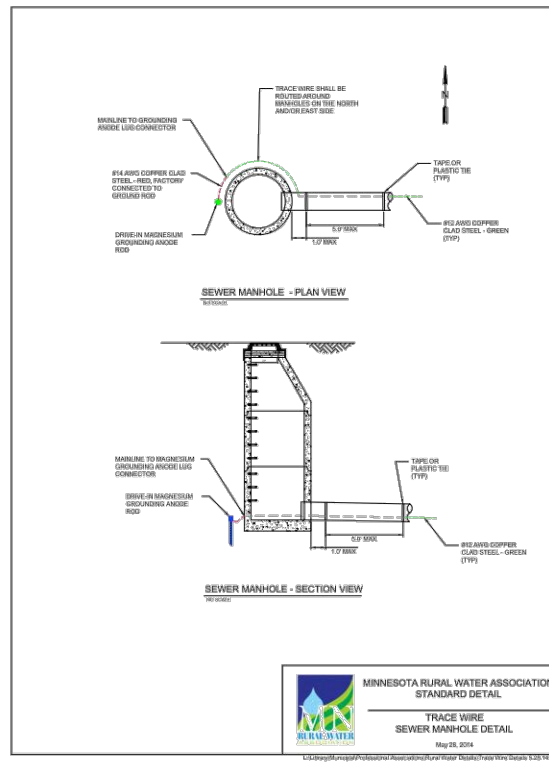
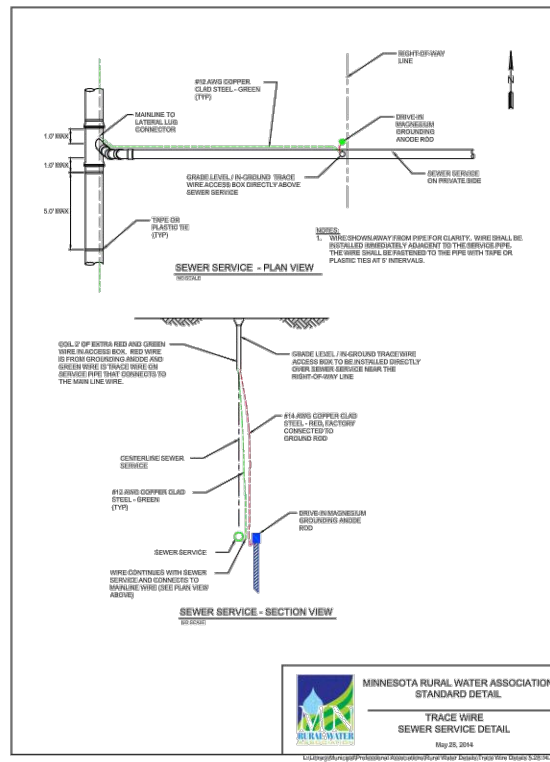
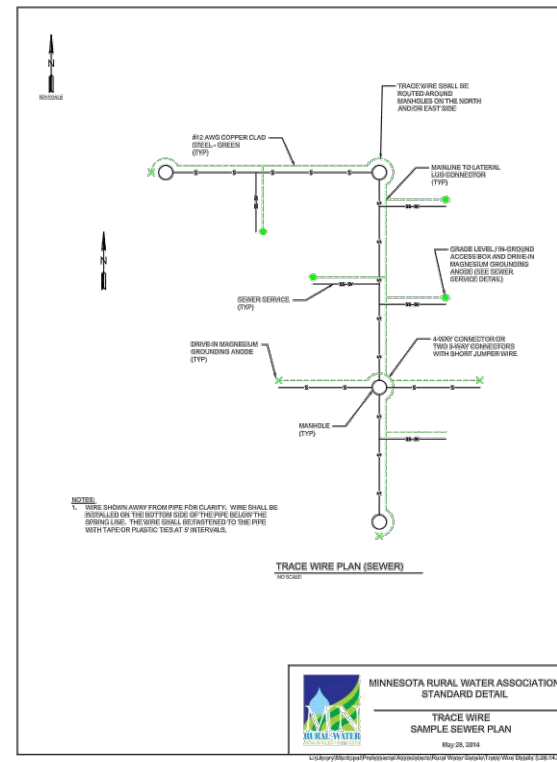
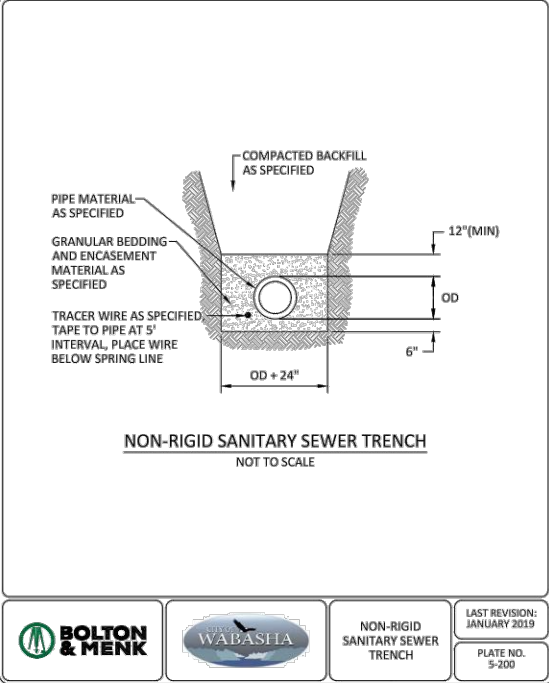
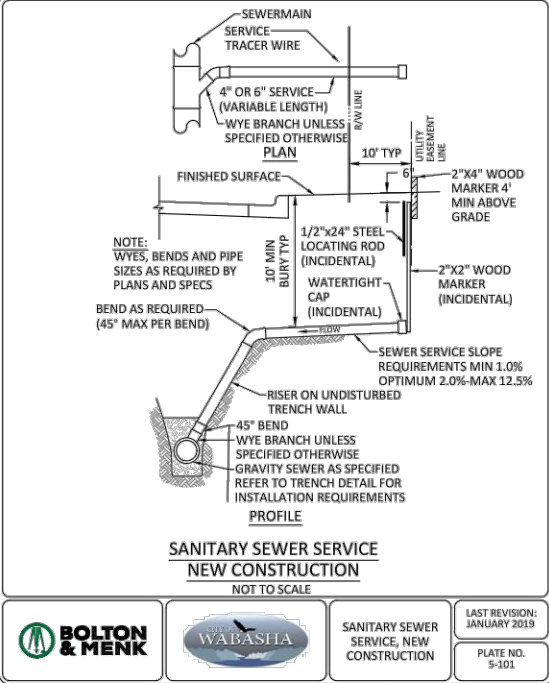
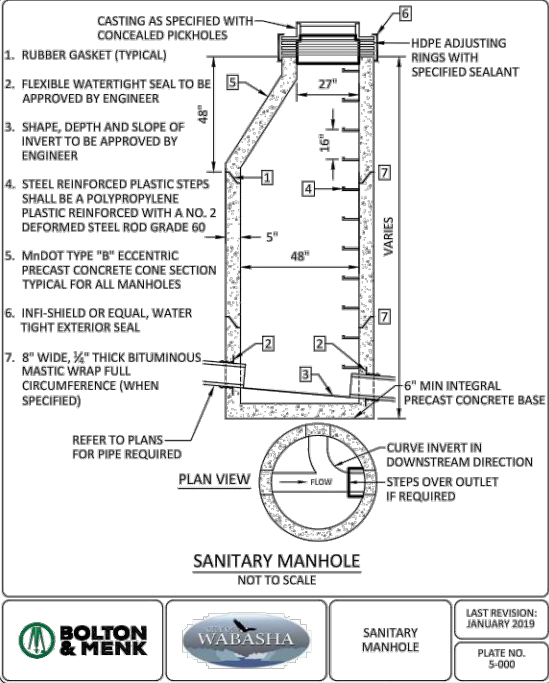
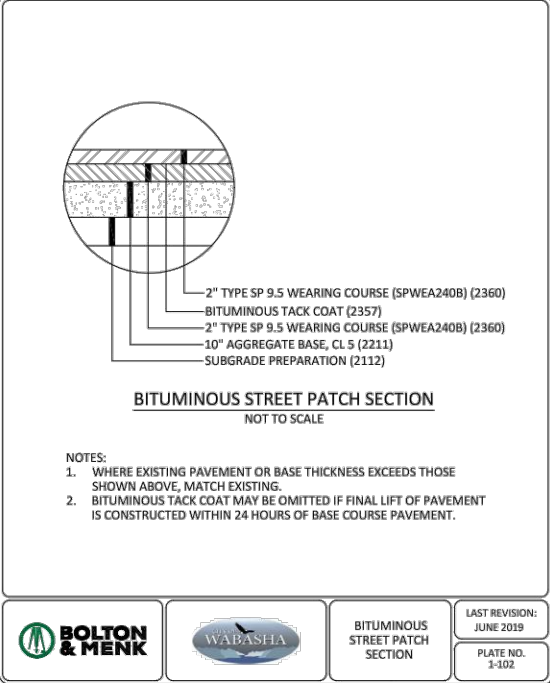
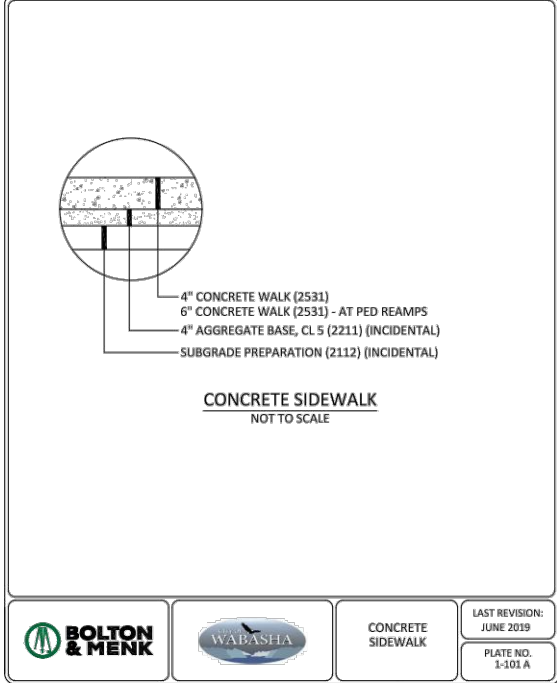
DESIGNED JWK
DRAWN ADB
CHECKED MRW

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CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
OFFSTREET STORM PLAN & PROFILE

SHEET 4
OF 10 SHEETS



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Mark R. Welch
MARK R. WELCH
DATE 3/27/2024 REG. NO. 42736

DATE: 1/25/2024
Prepared For:
BIGELOW HOMES
4057 28TH STREET NW
ROCHESTER, MN 55901
FILE NO.: 23-229 GP & CP

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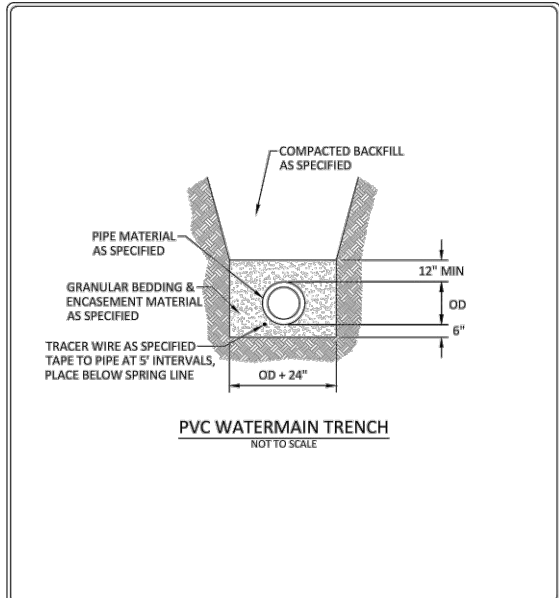
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CITY OF WABASHA
WABASHA COUNTY

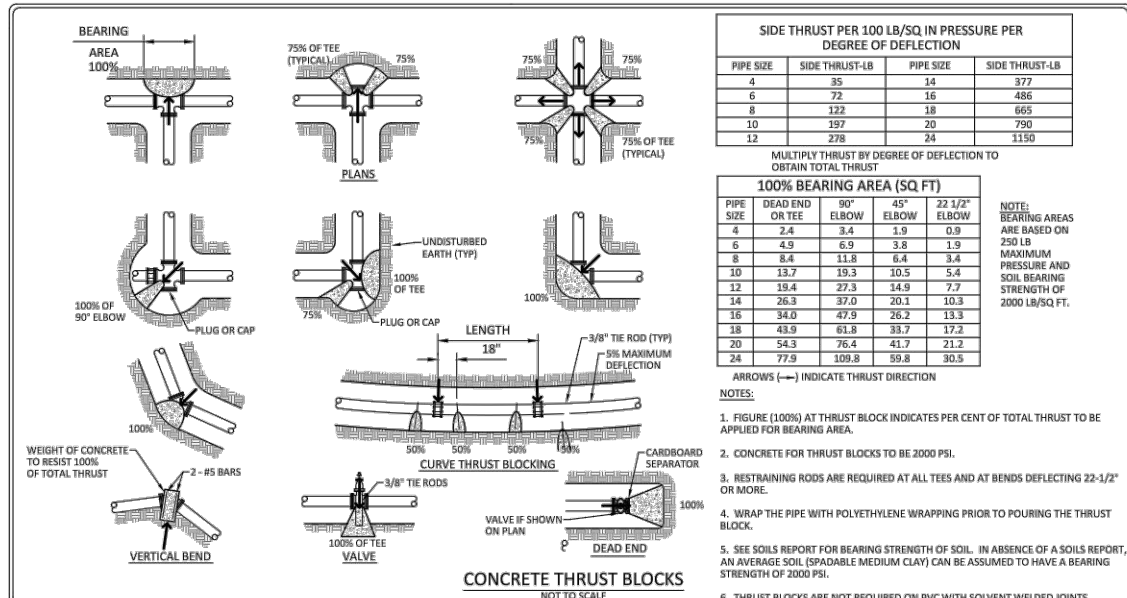
EAGLES BASIN TOWNHOMES
STANDARD PLATES

SHEET 5
OF 10 SHEETS



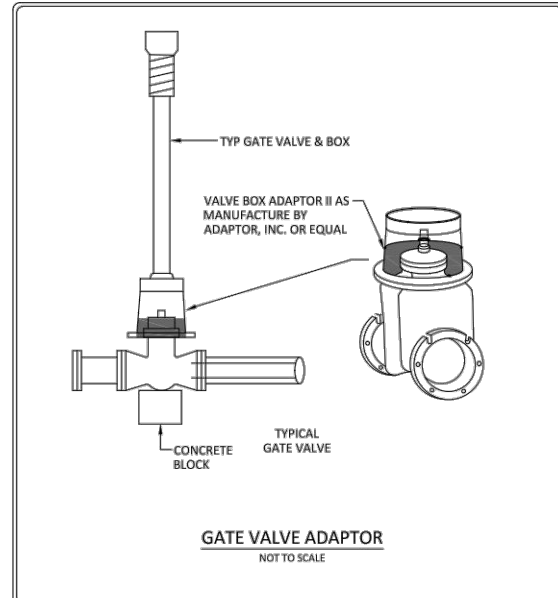
PVC WATERMAIN
TRENCH

LAST REVISION:
JUNE 2019
PLATE NO.
6-200



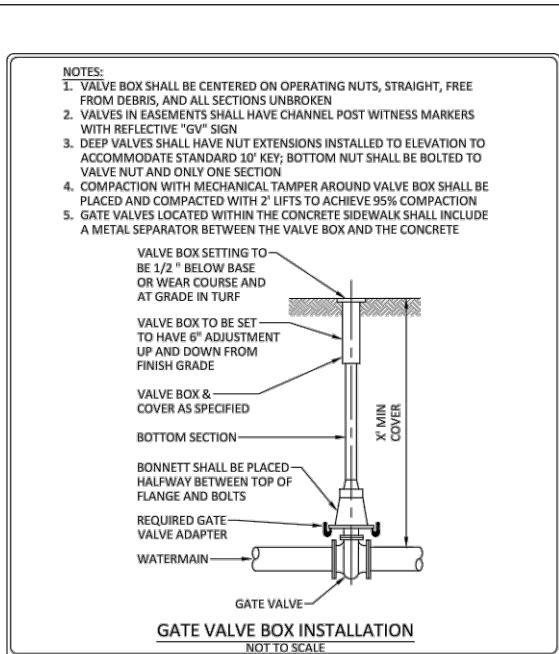
CONCRETE THRUST BLOCKS

LAST REVISION:
JUNE 2019
PLATE NO.
6-207



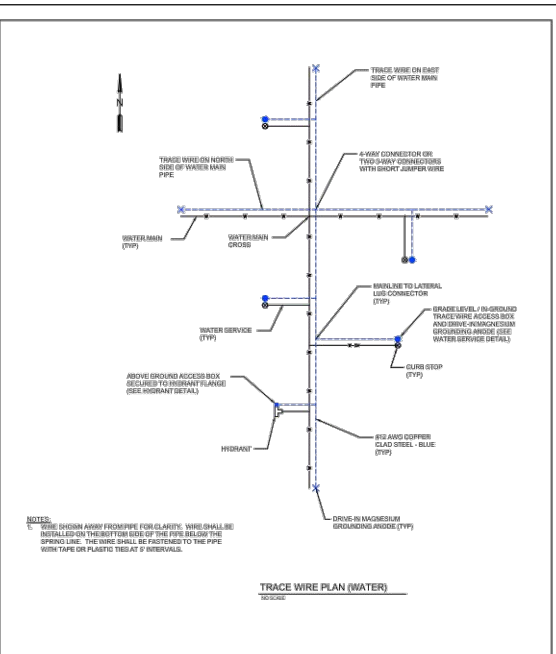
GATE VALVE
ADAPTOR

LAST REVISION:
JUNE 2019
PLATE NO.
6-400 A

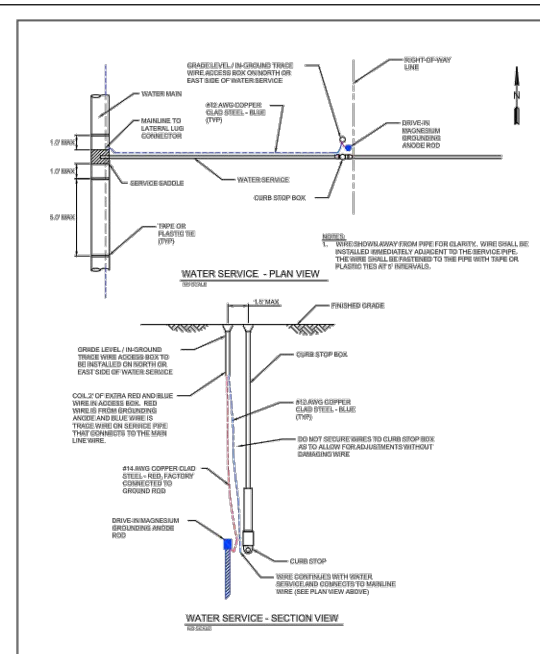


GATE VALVE BOX
INSTALLATION

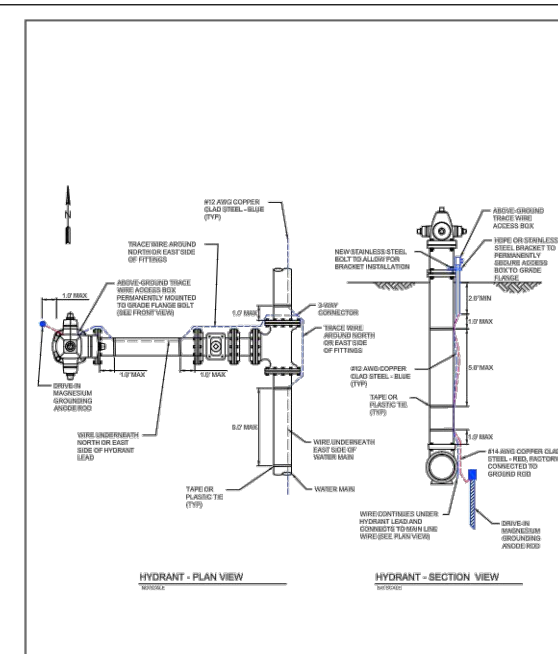
LAST REVISION:
JUNE 2019
PLATE NO.
6-402



MINNESOTA RURAL WATER ASSOCIATION
STANDARD DETAIL
TRACE WIRE
SAMPLE WATER PLAN
May 25, 2014



MINNESOTA RURAL WATER ASSOCIATION
STANDARD DETAIL
TRACE WIRE
WATER SERVICE DETAIL
May 25, 2014



MINNESOTA RURAL WATER ASSOCIATION
STANDARD DETAIL
TRACE WIRE
HYDRANT DETAIL
May 25, 2014

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 3/27/2024 REG. NO. 42736

DATE: 1/25/2024
Prepared For:
BIGELOW HOMES
4057 28TH STREET NW
ROCHESTER, MN 55901

FILE NO.: 23-229 GP & CP

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DESIGNED **JWK**
DRAWN **ADB**
CHECKED **MRW**

REVISED	BY	DATE
PRELIMINARY	ADB	2/8/2024
BID QUANTITIES	ADB	3/5/2024
RESUBMITTAL	ADB	3/27/2024

CITY OF WABASHA
WABASHA COUNTY

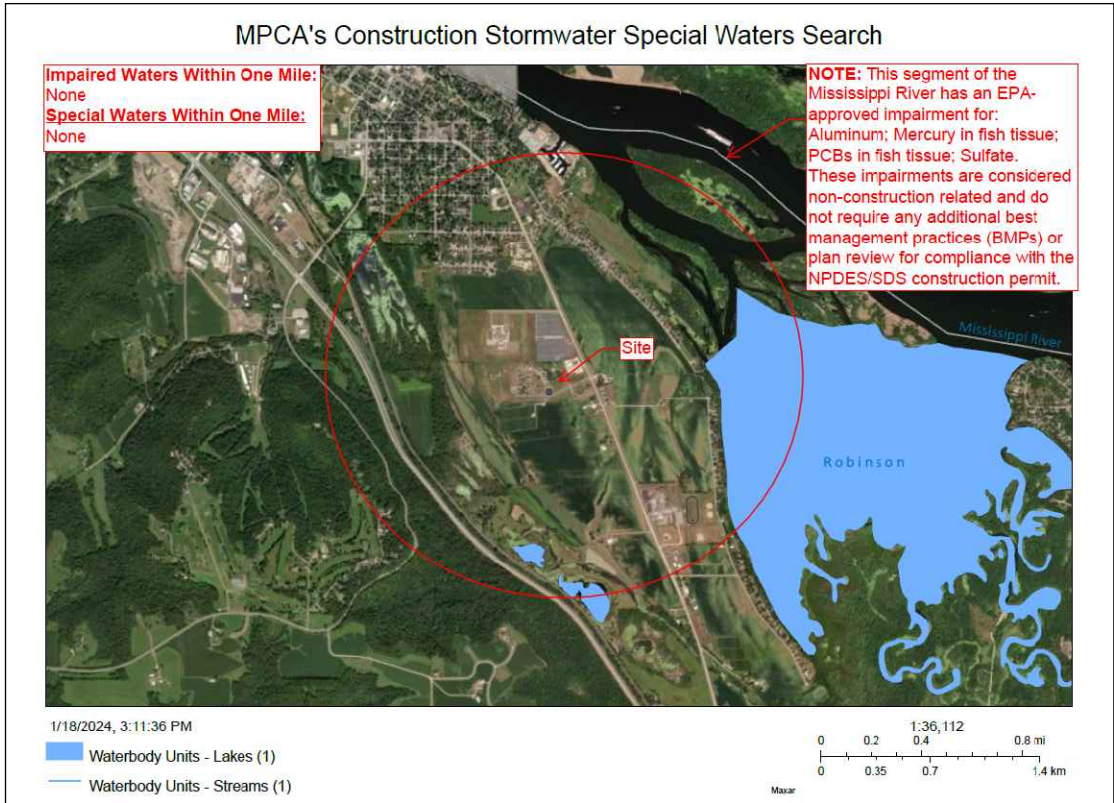
EAGLES BASIN TOWNHOMES
STANDARD PLATES

SHEET 6
OF 10 SHEETS

I. **GENERAL CONSTRUCTION ACTIVITY INFORMATION:**
A. PROJECT NAME: EAGLE BASIN TOWNHOMES
B. DESCRIBE THE PROJECT LOCATION (ADDRESS/CITY OR TOWNSHIP/COUNTY/LATITUDE/LONGITUDE):
ADDRESS OR DESCRIBE AREA: SEC. 4 - T110N - R10W, PID#27.01476.00
CITY OR TOWNSHIP: WABASHA STATE: MN ZIP CODE: 55981
LATITUDE/LONGITUDE OF APPROXIMATE CENTROID OF PROJECT: 44°21'53.54"N | 92°01'08.94"W
C. **DESCRIBE THE CONSTRUCTION ACTIVITY (TYPE OF CONSTRUCTION, PHASES, TIMELINES, POTENTIAL FOR DISCHARGE OF SEDIMENT AND OTHER POLLUTANTS, ETC.):**
THIS PROJECT IS FOR THE DEVELOPMENT OF EAGLE BASINS TOWNHOMES. SIX (6) TOWNHOME BUILDINGS WITH TWELVE (12) UNITS TO BE PLATTED. THIS PROJECT WILL BE COMPLETED IN ONE PHASE DURING THE SPRING/SUMMER 2024. THE POTENTIAL FOR DISCHARGE OF SEDIMENT AND OTHER POLLUTANTS IS MINIMAL PROVIDED THE GRADING AND EROSION CONTROL PLAN PREPARED FOR THE PROJECT IS ADHERED TO.
D. NUMBER OF TOTAL ACRES TO BE DISTURBED: 2.1 ACRES
E. PRE-CONSTRUCTION ACRES OF IMPERVIOUS SURFACE: 0.0 ACRES
F. POST-CONSTRUCTION ACRES OF IMPERVIOUS SURFACE: 0.8 ACRES
G. TOTAL NEW IMPERVIOUS SURFACE AREAS: 0.8 ACRES

II. **RECEIVING WATERS:**
A. LIST ALL WATERS WITHIN ONE MILE (NEAREST STRAIGHT-LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE BOTH DURING OR AFTER CONSTRUCTION.

WATER BODY ID NAME OF WATER BODY TYPE SPECIAL WATER? IMPAIRED WATER?
NONE



III. **PROJECT PLANS & SPECIFICATIONS:**
A. CONSTRUCTION AND GRADING PLAN SETS, SPECIFICATIONS, AS WELL AS A DRAINAGE REPORT HAVE BEEN PREPARED FOR THIS PROJECT. THIS SWPPP SHALL BE A PART OF THE PLANS AND ON-SITE WITH THE CONTRACTOR DURING ACTIVE CONSTRUCTION. THE DRAINAGE REPORT INCLUDES ALL STORMWATER CALCULATIONS FOR COMPLIANCE WITH THE NPDES PERMIT AND ARE AVAILABLE AT THE OFFICE OF THE ENGINEER. JASON KAPPERS OF G-CUBED MAY BE CONTACTED VIA EMAIL FOR ELECTRONIC COPIES OF THE PLANS, SPECIFICATIONS AND DRAINAGE REPORT (jasonk@ggg.to).

IV. **ENVIRONMENTAL REVIEW**
A. **WAS AN ENVIRONMENTAL REVIEW REQUIRED FOR THIS PROJECT OR ANY PART OF A COMMON PLAN OF DEVELOPMENT OR SALE THAT INCLUDES THIS PROJECT?**
NO
1. **IF YES, IS THE ENVIRONMENTAL REVIEW PROCESS COMPLETE? (NOTE: APPLICATION FOR NPDES PERMIT MAY NOT BE MADE UNTIL REVIEWS/APPROVALS ARE COMPLETE)**
N/A
2. **WHO IS THE RESPONSIBLE GOVERNMENTAL UNIT (E.G. CITY, TOWNSHIP, COUNTY, STATE OR FEDERAL AGENCY)?**
N/A
3. **WHAT IS THE TYPE OF ENVIRONMENTAL REVIEW DOCUMENT? (E.G. WETLAND DELINEATION, ENVIRONMENTAL REPORT, EAW, EIS, AUAR, OTHER)?**
N/A
4. **COMPLETION DATE FOR ENVIRONMENTAL REVIEW? (MM/DD/YYYY)**
N/A
5. **HAS MITIGATION IDENTIFIED IN THE ENVIRONMENTAL REVIEW BEEN INCORPORATED INTO THE SWPPP?**
N/A

V. **TEMPORARY EROSION PREVENTION PRACTICES:**
A. DESCRIBE THE TEMPORARY EROSION PREVENTION BMPs EXPECTED TO BE IMPLEMENTED ON THIS SITE DURING CONSTRUCTION:
1. **METHODS OF TEMPORARILY STABILIZING SOILS AND SOIL STOCKPILES:**
SOILS SHALL BE TEMPORARILY STABILIZED USING DISC ANCHORED MULCH, EROSION CONTROL BLANKET OR AN APPROVED EQUIVALENT. SOIL STOCKPILES SHALL BE TEMPORARILY STABILIZED USING SIMILAR MEASURES, BUT COULD ALSO INCLUDE PLASTIC SHEETING OR TARP.
2. **METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS:**
ALL DITCH/SWALE WETTED PERIMETERS SHALL BE LINED WITH EROSION CONTROL BLANKET. ROCK CHECKS MAY ALSO BE USED AS A REDUNDANT BMP SHOULD EROSION CONDITIONS BE PRESENT AND WARRANT THEIR INSTALLATION.
3. **METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS:**
RIP RAP SHOULD BE UTILIZED AT ALL PIPE OUTLETS AND BE INSTALLED WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER OR PROPERTY EDGE. RIP RAP SHOULD FOLLOW STANDARD INSTALLATION PRACTICES TO ENSURE UNDERMINING OF PIPE OUTLETS AND WASHOUTS DO NOT OCCUR.

4. **METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR TO OFFSITE DISCHARGE, UNLESS INFEASIBLE:**
CONSTRUCTION SHOULD BE PHASED SUCH THAT ONLY PORTIONS OF THE SITE THAT NEED TO BE DISTURBED ARE DISTURBED AND THAT CONSTRUCTION VEHICLES AND EQUIPMENT MINIMIZE TRAVEL OVER GREEN SPACE AREAS. NON-COMPACTED SOILS AND DIRECTING STORMWATER FLOW TO VEGETATED AREAS ARE BMPs IN THEMSELVES AS BOTH PROMOTE INFILTRATION OF STORMWATER INTO SOIL.
B. **DESCRIBE TIMELINES TO BE IMPLEMENTED AT THIS SITE FOR COMPLETING THE INSTALLATION OF THE EROSION PREVENTION BMPs LISTED UNDER SECTION V.**
PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE. ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED IN CONJUNCTION WITH PERIMETER CONTROLS TO ENSURE TRACKING ON PUBLIC ROADWAYS IS MINIMIZED OR NON-EXISTENT. ONCE THE SITE IS DEVELOPED AS SHOWN ON THE PLANS, THE SLOPES SHALL BE SEEDED, FERTILIZED AND BLANKETED IMMEDIATELY UPON FINISHING GRADING. STABILIZATION SHALL BE COMPLETE WITHIN 14 CALENDAR DAYS. ONCE FLATTER AREAS ARE GRADED, THEY SHOULD BE SEEDED AND HAVE MULCH DISC ANCHORED WITH STABILIZATION ALSO BEING COMPLETE WITHIN 14 CALENDAR DAYS. INLET PROTECTION SHALL BE USED AT ALL NEW INLETS WITHIN THE PROJECT AS THEY ARE INSTALLED TO KEEP SEDIMENT TRANSPORT MINIMIZED.
C. **DESCRIBE ADDITIONAL EROSION PREVENTION MEASURES THAT WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION:**
DEVELOPMENT SHOULD BE PHASED SUCH THAT ONLY ACTIVE AREAS ARE DISTURBED TO PREVENT ANY EROSION ISSUES. PROPER CONSTRUCTION PHASING IS IMPORTANT IN THAT IT GREATLY REDUCES THE POTENTIAL FOR SEDIMENT TO TRAVEL OFF-SITE. ADDITIONALLY, ALL AREAS THAT ARE PROPOSED GREEN SPACE/VEGETATIVE SHOULD BE KNOWN BY THE CONTRACTOR SUCH THAT CONSTRUCTION EQUIPMENT AND VEHICLES MINIMIZE SOIL COMPACTION OVER THOSE AREAS.

VI. **TEMPORARY SEDIMENT CONTROL PRACTICES:**
A. DESCRIBE THE METHODS OF SEDIMENT CONTROL BMPs TO BE IMPLEMENTED AT THIS SITE DURING CONSTRUCTION TO MINIMIZE SEDIMENT IMPACTS TO SURFACE WATERS, INCLUDING CURB AND GUTTER SYSTEMS.
1. **METHODS TO BE USED FOR DOWN-GRADIENT PERIMETER CONTROL:**
DOWN-GRADIENT PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UP-GRADIENT LAND DISTURBING ACTIVITY AND SHALL REMAIN IN-PLACE UNTIL PERMANENT COVER IS ESTABLISHED.
2. **METHODS TO BE USED TO CONTAIN SOIL STOCKPILES:**
SILT FENCE, BIOROLLS OR APPROVED EQUIVALENT SHALL BE INSTALLED AT THE BASE OF STOCKPILES ON THE DOWN-GRADIENT PERIMETER. REDUNDANT BMPs SUCH AS PLASTIC SHEETING OR TARP COULD ALSO BE USED IF THE SOIL STOCKPILE(S) ARE HIGHLY ERODABLE.
3. **METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION:**
INLET BAGS, INLET BOXES OR APPROVED ALTERNATIVES SHALL BE USED FOR STORM DRAIN INLET PROTECTION.
4. **METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTIVITIES:**
ROCK CONSTRUCTION PADS SHOULD BE INSTALLED AT ALL ENTRANCES TO THE SITE TO MITIGATE OR HALT THE TRACKING OF SEDIMENT ON PUBLIC ROADWAYS. IF SEDIMENT IS TRACKED ONTO PUBLIC ROADWAYS, THEY SHOULD BE SWEEPED WITHIN ONE (1) CALENDAR DAY OF DISCOVERY.
5. **IF APPLICABLE, ADDITIONAL SEDIMENT CONTROLS TO BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION OR FILTRATION AREAS WHEN EXCAVATED PRIOR TO FINAL STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA.**
N/A
6. **DESCRIBE METHODS TO BE USED TO MINIMIZE SOIL COMPACTION AND PRESERVE TOP SOIL (UNLESS INFEASIBLE) AT THIS SITE:**
THE CONTRACTOR SHOULD BE MADE AWARE AND UNDERSTAND WHERE THE AREAS OF PROPOSED GREEN SPACE/VEGETATIVE COVER ARE LOCATED AND LIMIT THEIR TRAVEL OVER THESE AREAS TO MINIMIZE SOIL COMPACTION.
7. **DESCRIBE PLANS TO PRESERVE A 50-FOOT NATURAL BUFFER BETWEEN THE PROJECT'S SOIL DISTURBANCE AND A SURFACE WATER OR PLANS FOR REDUNDANT SEDIMENT CONTROLS IF A BUFFER IS INFEASIBLE:**
N/A
8. **DESCRIBE PLANS FOR USE OF SEDIMENTATION TREATMENT CHEMICALS:**
N/A; SEDIMENTATION TREATMENT CHEMICALS ARE STRICTLY PROHIBITED ON-SITE.
B. **IS THE PROJECT REQUIRED TO INSTALL A TEMPORARY SEDIMENT BASIN DUE TO 10 OR MORE ACRES DRAINING TO A COMMON LOCATION OR 5 ACRES OR MORE IF THE SITE IS WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER?**
NO
IF YES, DESCRIBE HOW THE BASIN WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 14 [OF THE NPDES PERMIT].
N/A
C. **WILL THE PROJECT INCLUDE DEWATERING, BASIN DRAINING?**
N/A
D. **WILL THE PROJECT INCLUDE USE OF FILTERS FOR BACKWASH WATER?**
N/A

VII. **PERMANENT STORMWATER MANAGEMENT SYSTEM:**
A. **WILL THE PROJECT RESULT IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULT IN ONE ACRE OR MORE OF NEW IMPERVIOUS IN TOTAL IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT?**
YES
B. **IF YES, A WATER QUALITY VOLUME OF ONE INCH OF RUNOFF FROM THE CUMULATIVE NEW IMPERVIOUS SURFACES MUST BE RETAINED ON-SITE (SEE SECTION 15 OF THE PERMIT) THROUGH INFILTRATION UNLESS PROHIBITED DUE TO ONE OF THE REASONS IN ITEM 16.14 THROUGH ITEM 16.21. IF INFILTRATION IS PROHIBITED, IDENTIFY OTHER METHODS OF STORMWATER TREATMENT USED (e.g., FILTRATION SYSTEM, WET SEDIMENTATION BASIN, REGIONAL PONDING, OR EQUIVALENT METHOD):**
THE EAGLES BASIN SUBDIVISION, INCLUDING THE EAGLES BASIN TOWNHOMES SITE IS CURRENTLY SERVED BY A MULTI-CELL STORMWATER TREATMENT FACILITY LOCATED SOUTHEAST OF THE PROPOSED IMPROVEMENTS. ADEQUATE RATE CONTROL AND WATER QUALITY VOLUME IS PROVIDED. A FURTHER DESCRIPTION CAN BE FOUND IN THE EAGLE BASIN TOWNHOMES DRAINAGE REPORT.
C. **ATTACHED DESIGN PARAMETERS FOR THE PLANNED PERMANENT STORMWATER MANAGEMENT SYSTEM, INCLUDING VOLUME CALCULATIONS, DISCHARGE RATE CALCULATION, CONSTRUCTION DETAILS INCLUDING BASIN DEPTH, OUTLET CONFIGURATIONS, LOCATION, DESIGN OF PRE-TREATMENT DEVICES AND TIMING FOR INSTALLATION.**
N/A

VIII. **INSPECTION & MAINTENANCE ACTIVITIES**
A. **IDENTIFY THE TRAINED INDIVIDUAL(S) RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPs AT THE SITE:**

G-CUBED, INC.:
JASON KAPPERS, ANDREW BUCK, RYAN MCCORMICK, JACOB FRANK, AUSTIN HINES

CONTRACTOR:

B. **ATTACH TRAINING DOCUMENTATION FOR EACH INDIVIDUAL (SEE BELOW FOR G-CUBED, INC. TRAINED INDIVIDUALS):**

G-CUBED, INC. TRAINED INDIVIDUALS

UNIVERSITY OF MINNESOTA
Jason W. Kappers
Construction Site Management (May 31 2024)
Design of Construction SWPPP (May 31 2024)

UNIVERSITY OF MINNESOTA
Austin Hines
Construction Site Management (May 31 2025)
Design of Construction SWPPP (May 31 2025)

UNIVERSITY OF MINNESOTA
Jacob Frank
Construction Site Management (May 31 2026)
Design of Construction SWPPP (May 31 2025)

UNIVERSITY OF MINNESOTA
Andrew Buck
Construction Site Management (May 31 2026)
Design of Construction SWPPP (May 31 2025)

UNIVERSITY OF MINNESOTA
Ryan McCormick
Construction Site Management (May 31 2025)
Design of Construction SWPPP (May 31 2025)

UNIVERSITY OF MINNESOTA
Mark R. Welch
Construction Site Management (May 31 2024)
Design of Construction SWPPP (May 31 2025)

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4057 28TH STREET NW
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DESIGNED JWK
DRAWN ADB
CHECKED MRW

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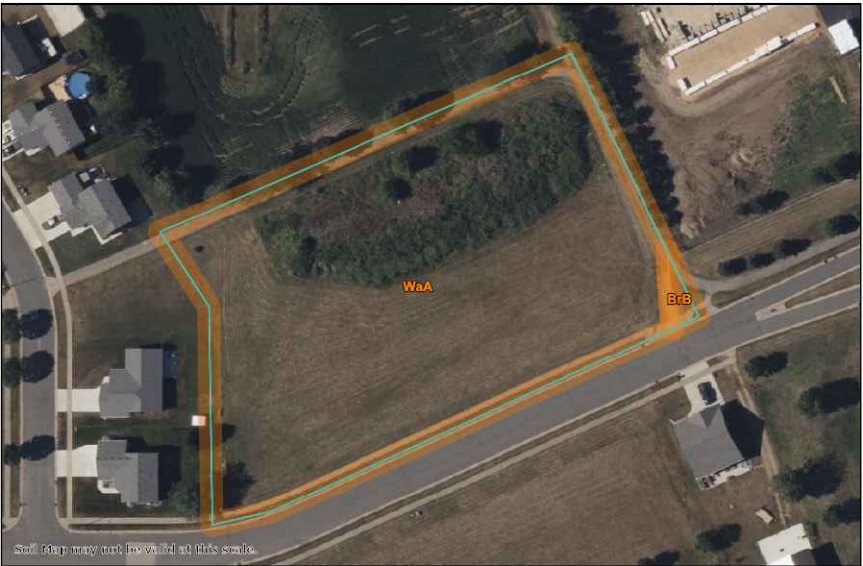
CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
SWPPP

SHEET 7
OF 10 SHEETS

- INSPECTION & MAINTENANCE ACTIVITIES (CONTINUED):**
- C. **DESCRIBE PROCEDURES TO ROUTINELY INSPECT THE CONSTRUCTION SITE, INCLUDING:**
1. **A DESCRIPTION OF RECORD-KEEPING REQUIREMENTS AND CONTENT: (SEE ITEM 11.12):**
- RECORD-KEEPING REQUIREMENTS SHALL ADHERE TO SECTION 11.12 OF THE NPDES PERMIT:
- SECTION 11.12**
- PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE:
- a. DATE AND TIME OF INSPECTIONS; AND
- b. NAME OF PERSONS CONDUCTING INSPECTIONS; AND
- c. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED; AND
- d. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND
- e. DATE OF ALL RAINFALL EVENTS GREATER THAN ½ INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ON-SITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF THE SITE LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND
- f. IF PERMITTEES OBSERVE A DISCHARGE DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.e. COLOR, ODOR, SETTLED OR UNSETTLED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS); AND
- g. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS; AND
- h. ALL PHOTOGRAPHS OF DEWATERING ACTIVITIES AND DOCUMENTATION OF NUISANCE CONDITIONS RESULTING FROM DEWATERING ACTIVITIES AS DESCRIBED IN SECTION 10. [MINN. R. 7090].
2. **FREQUENCY OF INSPECTIONS (SEE ITEM 11.2 AND ITEM 11.11 OF THE PERMIT):**
- FREQUENCY OF INSPECTIONS SHALL ADHERE TO SECTIONS 11.2 AND 11.11 OF THE NPDES PERMIT:
- SECTION 11.2**
- PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2.b, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN ½ INCH IN 24 HOURS. [MINN. R. 7090]
- SECTION 11.11**
- PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE AS DESCRIBED IN 11.2 AS FOLLOWS:
- a. INSPECTIONS OF AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE PER MONTH, EVEN IF CONSTRUCTION ACTIVITY CONTINUES ON OTHER PORTIONS OF THE SITE; OR
- b. WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE; INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR
- c. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
- d. FOR PROJECTS WHERE A POLLINATOR HABITAT OR NATIVE PRAIRIE TYPE VEGETATED COVER IS BEING ESTABLISHED, INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH IF THE SITE HAS TEMPORARY VEGETATION WITH A DENSITY OF 70% TEMPORARY UNIFORM COVER. IF AFTER 24 MONTHS NO SIGNIFICANT EROSION PROBLEMS ARE OBSERVED, INSPECTIONS MAY BE SUSPENDED COMPLETELY UNTIL THE TERMINATION REQUIREMENTS IN SECTION 13 HAVE BEEN MET. [MINN. R. 7090]
3. **AREAS TO BE INSPECTED AND MAINTAINED (SEE ITEM 11.3 THROUGH 11.6 AND 11.9 OF THE PERMIT):**
- SECTION 11.3**
- a. PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPs. [MINN. R. 7090]
- SECTION 11.4**
- a. PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs AND POLLUTION PREVENTION MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPs WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.5 OR 11.6. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THIS AREA. [MINN. R. 7090]
- SECTION 11.5**
- DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. PERMITTEES MUST USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS. [MINN. R. 7090]
- SECTION 11.6**
- PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS. [MINN. R. 7090]
- SECTION 11.9**
- PERMITTEES MUST INSPECT AND PHOTOGRAPH DEWATERING DISCHARGES AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS DURING OPERATION. DEWATERING DISCHARGES THAT ONLY LAST FOR MINUTES, AS OPPOSED TO HOURS, AND DO NOT REACH A SURFACE WATER, DO NOT REQUIRE PHOTOGRAPHS OR DOCUMENTATION. [MINN. R. 7090]
- IX. **POLLUTION PREVENTION MANAGEMENT MEASURES:**
- A. **DESCRIBE PRACTICES FOR STORAGE OF BUILDING PRODUCTS AND LANDSCAPE MATERIALS WITH A POTENTIAL TO LEACH POLLUTANTS TO MINIMIZE EXPOSURE TO STORMWATER:**
- BUILDING PRODUCTS AND LANDSCAPE MATERIALS WITH A POTENTIAL TO LEACH POLLUTANTS SHALL BE PLACED UNDER COVER (I.e. PLASTIC SHEETING OR TEMPORARY ROOFS) OR BE PROTECTED BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
- B. **DESCRIBE PRACTICES FOR STORAGE OF PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS:**
- PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS SHOULD ALSO BE PLACED UNDER COVER (I.e. PLASTIC SHEETING OR TEMPORARY ROOFS) OR BE PROTECTED BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
- C. **DESCRIBE PRACTICES FOR STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS OR TOXIC WASTE (e.g., OIL, FUEL, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVE, ADDITIVES, CURING COMPOUNDS, AND ACIDS) ACCORDING TO MINN. R. CH. 7045, INCLUDING SECONDARY CONTAINMENT IF APPLICABLE:**
- HAZARDOUS MATERIALS AND TOXIC WASTE SHALL BE STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. DISPOSAL OF HAZARDOUS MATERIALS AND TOXIC WASTE SHALL BE AT APPROVED FACILITIES OR OTHERWISE APPROVED BY THE LGU.
- D. **DESCRIBE COLLECTION, STORAGE AND DISPOSAL OF SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035:**
- PER MINN. R. 7035.08, SUBP. 1, THE OWNER AND OCCUPANT OF ANY PREMISES, BUSINESS ESTABLISHMENT, OR INDUSTRY AND/OR THE REFUSE COLLECTION SERVICE ARE RESPONSIBLE FOR THE SATISFACTORY COLLECTION AND TRANSPORTATION OF ALL SOLID WASTE ACCUMULATED AT A PREMISE, BUSINESS ESTABLISHMENT, OR INDUSTRY TO A SOLID WASTE DISPOSAL, TRANSFER, OR PROCESSING FACILITY THAT IS AUTHORIZED TO ACCEPT THE WASTE.
- PER MINN. R. 7035.08, SUBP. 2, VEHICLES OR CONTAINERS USED FOR THE COLLECTION AND TRANSPORTATION OF GARBAGE AND SIMILAR PUTRESCIBLE WASTES, OR REFUSE CONTAINING SUCH MATERIALS, MUST BE COVERED, LEAKPROOF, DURABLE, AND OF EASILY CLEANABLE CONSTRUCTION. THEY MUST BE CLEANED TO PREVENT NUISANCES, POLLUTION, OR INSECT BREEDING, AND MUST BE MAINTAINED IN GOOD REPAIR. VEHICLES OR CONTAINERS USED FOR THE TRANSPORTATION OF MUNICIPAL SOLID WASTE COMBUSTOR ASH MUST BE COVERED TO PREVENT FUGITIVE DUST EMISSIONS AND CONSTRUCTION TO PREVENT LEAKING OF FLUID WHICH HAS BEEN IN CONTACT WITH ASH.
- E. **DESCRIBE MANAGEMENT OF PORTABLE TOILETS TO PREVENT TIPPING AND DISPOSAL OF SANITARY WASTES IN ACCORDANCE WITH MINN. R. CH. 7041:**
- PORTABLE TOILETS MUST BE POSITIONED SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER. DISPOSAL OF SANITARY WASTES SHALL BE IN ACCORDANCE WITH MINN. R. CH. 7041.
- F. **DESCRIBE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES TO THAT WASTES DO NOT CONTACT THE GROUND:**
- CONCRETE WASHOUTS, WHICH PROHIBIT WASHOUT LIQUID AND SOLID WASTES FROM CONTACTING THE GROUND AND ENTERING THE GROUNDWATER, MAY BE; APPROVED FACILITIES OFFSITE, PORTABLE ONSITE FACILITIES, OR FACILITIES CONSTRUCTED ONSITE. ALL WASHOUT FACILITIES CONSTRUCTED ONSITE MUST BE IN APPROVED COMMUNAL LOCATIONS AND/OR LOCATED ON THE INDIVIDUAL LOT BEING DEVELOPED. ONSITE CONSTRUCTED FACILITIES SHALL HAVE A LEAK-PROOF, IMPERMEABLE LINER AND FOLLOW THE CONSTRUCTION, MAINTENANCE AND REMOVAL PROCESSES AS RECOMMENDED ON THE MPCA WEBSITE.
- X. **PERMIT TERMINATION CONDITIONS**
- XI. **DESCRIBE METHOD OF FINAL STABILIZATION (PERMANENT COVER) OF ALL DISTURBED AREAS:**
- PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTED THE NOTICE OF TERMINATION (NOT). VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.
- XJ. **DESCRIBE METHODS USED TO CLEAN ALL STORMWATER TREATMENT SYSTEMS AND STORMWATER CONVEYANCE SYSTEMS OF ACCUMULATED SEDIMENT:**
- PERMITTEES MUST CLEAN THE STORMWATER CONVEYANCE SYSTEMS OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 OF THE PERMIT AND IS OPERATING AS DESIGNED.
- XK. **DESCRIBE METHODS FOR REMOVING ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPs:**
- COMMON METHODS FOR REMOVING ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPs ARE ACCEPTABLE; SO LONG AS ALL TEMPORARY SYNTHETIC DEVICES ARE REMOVED PRIOR TO SUBMITTED THE NOTICE OF TERMINATION (NOT). PERMITTEES MAY LEAVE BMPs DESIGNED TO DECOMPOSE ON-SITE IN PLACE.

USDA NRCS WEB SOIL SURVEY MAP & MAP UNIT LEGEND



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BrB	Burkhardt loam, 2 to 6 percent slopes	0.0	0.7%
WaA	Waukegan silt loam, 0 to 2 percent slopes	2.3	99.3%
Totals for Area of Interest		2.3	100.0%

SOIL CLASSIFICATION	HYDROLOGIC SOIL GROUP (HSG)
*BrB - BURKHARDT LOAM.....	A
*WaA - WAUKEGAN SILT LOAM.....	B

*PROPOSED TO BE DISTURBED WITH DEVELOPMENT OF EAGLE BASIN TOWNHOMES.

USGS QUAD MAP - MINNESOTA - WABASHA COUNTY - 7.5-MINUTE SERIES



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Mark R. Welch
MARK R. WELCH
DATE 3/27/2024 REG. NO. 42736

DATE: 1/25/2024
Prepared For:
BIGELOW HOMES
4057 28TH STREET NW
ROCHESTER, MN 55901
FILE NO.: 23-229 GP & CP

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G-Cubed
14070 Hwy 52 S.E.
Chatfield, MN 55923

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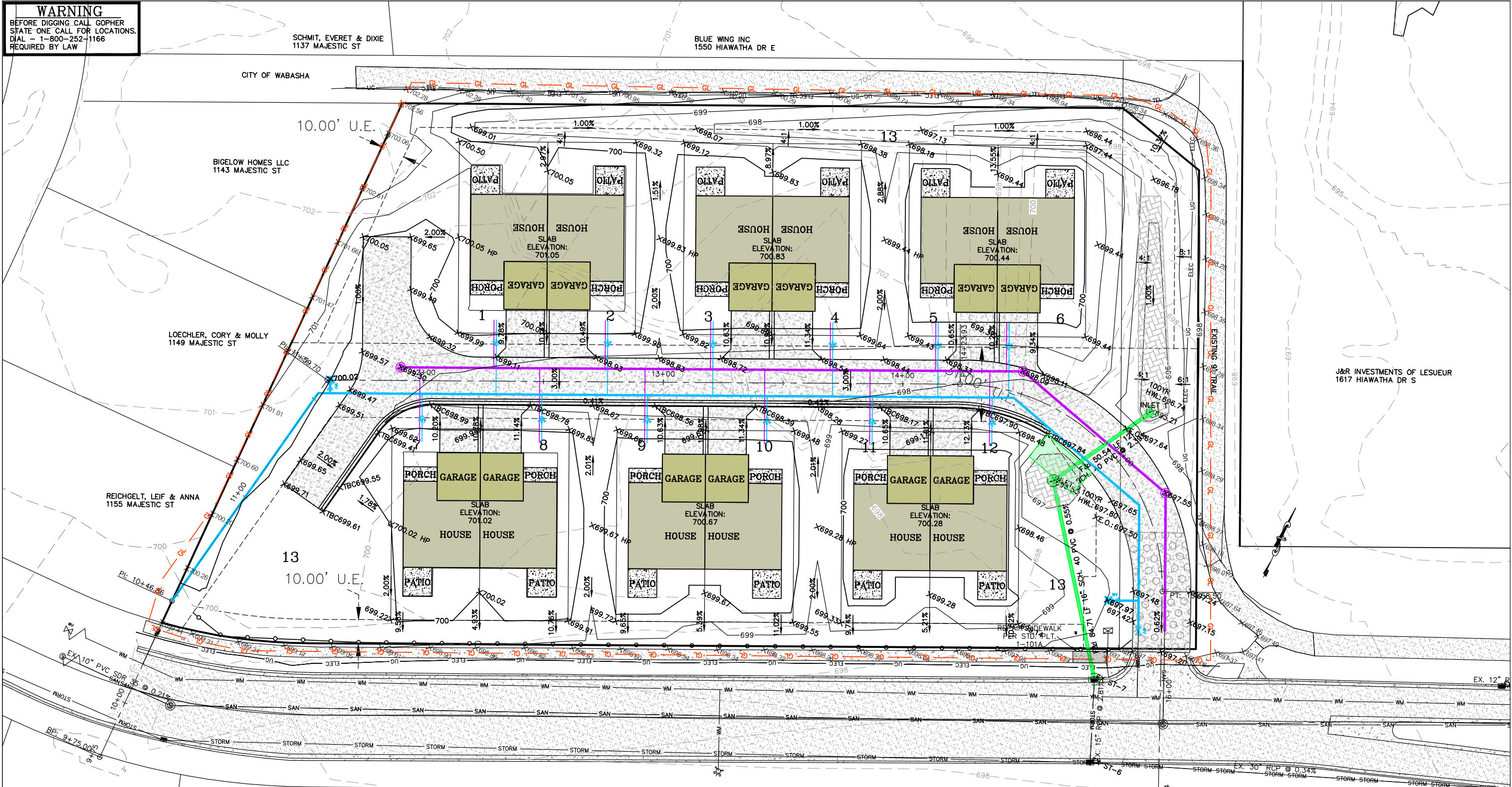
DESIGNED JWK
DRAWN ADB
CHECKED MRW

REVISED	BY	DATE
PRELIMINARY	ADB	2/8/2024
BID QUANTITIES	ADB	3/5/2024
RESUBMITTAL	ADB	3/27/2024

CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
SWPPP

WARNING
BEFORE DIGGING CALL GOPHER
STATE ONE CALL FOR LOCATIONS.
DIAL - 1-800-252-1166
REQUIRED BY LAW



BIGELOW HOMES LLC
1124 21ST ST

BIGELOW HOMES LLC
1130 21ST ST

JUMBECK, RANDY
1136 21ST ST

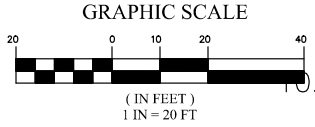
BIGELOW HOMES LLC
1142 21ST ST

GOSSE, MICHAEL
1148 21ST ST

BIGELOW HOMES LLC
1154 21ST ST

KUK, CHAD & ASHLEY
1160 21ST ST

CITY OF WABASHA



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CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
GRADING & EROSION CONTROL PLAN
SHEET G1
OF 10 SHEETS

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GENERAL EROSION CONTROL AND CONSTRUCTION NOTES:

- 1) PLACE MACHINE SLICED SILT FENCE AS SHOWN ON THE PLANS AND WHERE DIRECTED BY THE ENGINEER, AT TOE OF FILL SLOPES AND MAINTAIN UNTIL TURF HAS BEEN WELL ESTABLISHED. (INSTALLATION OF SILT FENCE MUST TAKE PLACE PRIOR TO DISTURBING THE WATERSHED). INSTALL AND MAINTAIN INLET PROTECTION AT ALL CATCHBASINS AND INLETS LOCATED WITHIN THE PROJECT AND IMMEDIATELY DOWNSTREAM OF THE PROJECT.
- 2) CONSTRUCT AND MAINTAIN TEMPORARY ROCK CONSTRUCTION ENTRANCE AT ALL CONSTRUCTION ENTRANCES USED DURING CONSTRUCTION TO CONTROL SEDIMENT FROM LEAVING SITE PER ROCHESTER STD. PLATE 7-06, CLOSE OTHER ENTRANCES WITH SILT FENCE.
- 3) REMOVE ALL TOPSOIL AND ORGANIC MATERIAL. STOCKPILE IN APPROVED LOCATIONS ON-SITE. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PROVIDE TEMPORARY COVER IF STOCKPILE WILL BE INPLACE MORE THAN 14 DAYS.
- 4) ALL EXCAVATED MATERIAL SHALL BE PLACED ON SITE AS DIRECTED BY THE ENGINEER OR HAULED TO AN APPROVED LOCATION. ANY TEMPORARY STOCKPILES SHALL HAVE SILT FENCE INSTALLED AROUND THE DOWN SLOPE EDGE TO PREVENT DOWNSTREAM SEDIMENTATION. TEMPORARY COVER SHALL BE ESTABLISHED AFTER 14 DAYS.
- 5) ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 6) THE CONTRACTOR SHALL ROUTINELY INSPECT THE CONSTRUCTION SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING.
- 7) THIS PROJECT DOES REQUIRE AN NPDES PERMIT BASED ON AREA DISTURBED AND DOES REQUIRE PERMANENT STORM WATER TREATMENT DUE TO THE PROJECT BEING PART OF A LARGER COMMON PLAN OF DEVELOPMENT. A SWPPP HAS BEEN PREPARED FOR THIS PROJECT AND SHALL BE PART OF THESE PLANS. BEST MANAGEMENT PRACTICES BEYOND WHAT MAY BE SHOWN ON THIS PLAN OR WITHIN THE SWPPP SHOULD BE CONSIDERED IF GRADING CAUSES EROSION NOT CONTAINED BY MEASURES SHOWN ON THIS PLAN.
- 8) RESPREAD TOPSOIL (4" MIN.), FERTILIZE, SEED, & DISK ANCHOR MULCH ALL DISTURBED AREAS. SOD OR SEED WITH MNDOT MIXTURE 25-131 WITH THE FOLLOWING ADDITIONS.
FERTILIZER SHALL BE 24-12-24 AND BE APPLIED AT A RATE OF 300 LBS/ACRE.
MIXTURE 25-131 SEEDING SHALL BE APPLIED AT A RATE OF 220 LBS/ACRE.
MIXTURE 33-261 SEEDING SHALL BE APPLIED AT A RATE OF 35 LBS/ACRES. (STORMWATER FACILITIES)
MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.
*THE SEASON FOR SEEDING SHALL BE FROM APRIL 1ST - JUNE 1ST AND JULY 20TH - SEPTEMBER 20TH, AND AS DORMANT SEEDING AFTER NOV. 1ST. ONLY TEMPORARY SEEDING WILL BE ALLOWED SEPT. 20TH - NOV. 1ST) (REFERENCE MNDOT SEEDING MANUAL FOR ADDITIONAL SEEDING INFORMATION)
- 9) TEMPORARY SEED WITH MNDOT MIX 22-111 (MAY 1ST THRU AUGUST 1ST) OR MNDOT MIX 22-112 (AUGUST 1ST THRU OCTOBER 1ST) AT A RATE OF 100LB/ACRE. INCLUDING DISK ANCHORED MULCH ON ALL SLOPES GREATER THAN 200' OR 5%.
- 10) PER CURRENT MPCA REQUIREMENTS. CONCRETE WASHOUTS, WHICH PROHIBIT WASHOUT LIQUID AND SOLID WASTES FROM CONTACTING THE GROUND AND ENTERING THE GROUNDWATER, MAY BE; APPROVED FACILITIES OFFSITE, PORTABLE ONSITE FACILITIES, OR FACILITIES CONSTRUCTED ONSITE. ON SITE CONSTRUCTED FACILITIES SHALL HAVE A LEAK-PROOF, IMPERMEABLE LINER AND FOLLOW THE CONSTRUCTION, MAINTENANCE AND REMOVAL PROCESSES AS RECOMMENDED ON THE MPCA WEBSITE (HTTP://WWW.PCA.STATE.MN.US/PUBLICATIONS/WQ-STRM2-24.PDF).
- 11) OWNER HAS BEEN MADE AWARE THAT THERE ARE DESIGN SLOPES LESS THAN 2% AND ACCEPTS ANY ISSUES THAT MAY RESULT FROM THIS DESIGN.
- 12) DITCHES WITHIN 200' OF SURFACE WATER OR PROPERTY LINE STABILIZED IN 24 HOURS AFTER CONNECTION.
- 13) MINIMIZE CONSTRUCTION TRAFFIC OVER UNPAVED AREAS OF THE SITE.
- 14) **GOVERNING SPECIFICATIONS** - THE MOST RECENT EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SUBJECT TO ANY AMENDMENTS & THEN 2020 EDITION OF THE "STANDARD UTILITIES SPECIFICATIONS" AS PER THE CITY ENGINEER'S ASSOCIATION OF MINNESOTA SHALL GOVERN, ALONG WITH ANY DESIGN CRITERIA LOCATED WITHIN THE CITY OF WABASHA ZONING ORDINANCE. UNLESS OTHERWISE SPECIFIED WITHIN THIS PLAN.

VICINITY MAP

T. 110 N., R 10 W., SEC. 4
"NOT TO SCALE"

IMPAIRED/SPECIAL WATERS WITHIN ONE MILE:
NONE

ABBREVIATIONS DEFINED:
HP: HIGH POINT
LP: LOW POINT
EO: EMERGENCY OVERFLOW

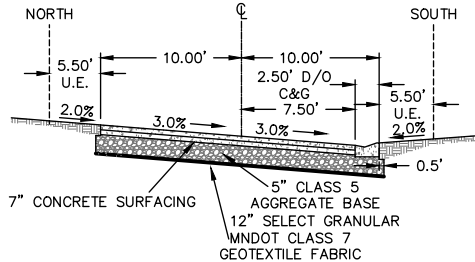


OWNER
BIGELOW HOMES
4057 28TH STREET NW
ROCHESTER, MN 55901

BUILDING CONTRACTOR
TBD

ENGINEER & SURVEYOR
G-CUBED INC.
14070 HWY. 52 SE
CHATFIELD, MN 55923
MARKW@GGG.TO

PRIVATE DRIVE TYPICAL SECTION
NOT TO SCALE



LEGEND

- WATER HYDRANT & GATE VALVE
- SANITARY MANHOLE
- STORM MANHOLE & CATCHBASIN SIGNS
- GAS VALVE
- COMMUNICATIONS BOX
- ELECTRIC POLE
- LIGHT POLE
- TREE
- MAJOR CONTOUR
- MINOR CONTOUR
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- OVERHEAD ELECTRIC LINES
- UNDERGROUND ELECTRIC LINES
- UNDERGROUND COMMUNICATIONS LINE
- RAILING, CHAINLINK FENCE
- GAS LINE
- WATER SERVICE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EASEMENT LINE
- BITUMINOUS SURFACING
- CONCRETE SURFACING
- BUILDING
- PROPOSED BITUMINOUS SURFACING
- PROPOSED CONCRETE SURFACING
- SILT FENCE (PER ROCH. STD. PLATE 7-01)
- GRADING LIMITS
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED SLOPE
- INLET BARRIER (PER ROCH. STD. PLATE 7-05)
- PROPOSED EROSION CONTROL BLANKET (PER MNDOT 3885 CAT. 3N)
- ROCK CONSTRUCTION ENTRANCE (PER ROCH. STD. PLATE 7-06)
- RIP RAP (PER MNDOT 3133D)
- TURF REINFORCEMENT MAT

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CITY OF WABASHA
WABASHA COUNTY

EAGLES BASIN TOWNHOMES
GRADING PLAN NOTES

SHEET G2
OF 10 SHEETS