



Trail to the Past. Road to the Future.

SPECIAL PLANNING COMMISSION MEETING

MANTORVILLE CITY COUNCIL CHAMBERS

21 5TH STREET E, MANTORVILLE, MN 55955

MONDAY, NOVEMBER 14, 2022

6:45 PM

PLEASE TAKE NOTICE that a special meeting of the City of Mantorville Planning Commission has been called to address the following agenda item(s):

- 1. Call to Order**
- 2. Approval of Minutes**
 - A. Planning Commission Meeting Minutes of October 24, 2022**
- 3. New Business**
 - A. Area 15 Preliminary Plat Application (PID 130210401)**
 - 1) Public Hearing – *continued from the October 24, 2022 Planning Commission Meeting***
- 4. Adjourn**

**City of Mantorville
Planning and Zoning Commission Minutes
October 24, 2022**

1. Call to Order

Chair Bradford called the meeting to order at 6:30 p.m.

Present: Chair Chuck Bradford
Commissioners Lyle Hoaglund, Jeffrey Ingalls,
Kent Keller, and Bill Kinney

Absent: None

Others Present: City Clerk-Treasurer Shirley Buecksler
Public Works Joe Adams

2. New Business/Public Hearing

A. Area 15 Preliminary Plat Application (PID 130210401)

Bigelow Homes, LLC, submitted a preliminary plat application for PID 130210401, referred to as Area 15, to plat the land into 36 single family residential lots (R-1). Neighboring property owners and other interested parties were notified of the public hearing scheduled for tonight. Notice was also published in the Dodge County Independent.

Although further discussion between the Developer, WHKS and the City is necessary at this time, the Planning Commission reviewed the application materials submitted by Bigelow Homes and took public comment.

Motion was made by Commissioner Kinney and seconded by Commissioner Ingalls to open the public hearing at 6:31 p.m.

Vote: 5 ayes / 0 nays. Motion carried.

Discussion:

- Where will water drain in the southeast part of the development? We currently get a ton of water.
 - Chair Bradford stated that the preliminary plat has a design that water coming onto the development will skirt around the development. They have included a retention pond.
 - Commissioner Kinney added that the retention pond is next to properties at County Road 15 and Highway 57. Just east of there will be the

retention pond. One of the points of contention is how we are going to handle water and sewer. And discussion on where water will go.

- I am concerned about water to my property.
 - Chair Bradford said the developer cannot make drainage worse for adjoining properties, so they will have to address that issue.
 - Commissioner Kinney added that we are in the process of discussing this with the engineer and the developer.
- In 2019, we came close to Kasson shutting off Mantorville. Has anyone looked at the capacity of this plant?
 - Chair Bradford said we have surplus capacity.
- Is it true that Kasson can shut us down?
 - Commissioner Ingalls believes our agreement with Kasson was oversized.
- At what point is that surplus consumed? How much more surplus do we have?
 - Chair Bradford said we are estimating one third to one half of our surplus. Backflow is a pressurized line that will never flow back to Mantorville.
- We need to be concerned about our burden on it.
- The big development by the school, homes east of the City shop, have put more into the sewer system and wastewater system.
 - Chair Bradford said we are doing a lot of I/I (Inflow and Infiltration) work to minimize the flow. We have the ability based on contract, as does Kasson, to buy or sell surplus capacity.
- How much is that costing for stormwater into the sewer system?
 - Joe Adams said we are working to get a grasp on I/I.
 - Chair Bradford said the biggest issue with I/I Was sump pumps dumping into the storm sewer system. Lining manholes, televising lines for leaks, etc. We continue to work on I/I. The goal is to minimize it.
 - Joe Adams stated that when the new water meters were installed, we inspected all of them for sump pumps.
 - Chair Bradford added that some of our feedback to the developer was to identify what type of building will be constructed in each area, grading, walk-out, etc. For the final plat, we want to see which lots will have which type of home.
- What about grading?
 - Chair Bradford said these are some of the issues we are discussing.
 - Commissioner Kinney said we will be meeting with them this week. I will be bringing all of your questions to the table.
 - Chair Bradford said the next step of this process is ironing out some of the issues and coming to the next public hearing.
 - Commissioner Keller asked for current elevations to be in the next packet for review.
- It looks like two culverts are draining to one property.
- Chair Bradford recommended that the City Clerk send out ‘Save the Date’ cards for everyone who was notified prior to tonight’s meeting (surrounding property

owners, et al) so they are aware of the public hearing continuation to November 14th.

- Commissioner Keller said we have experienced people in Mantorville who can review plans and asked if Virgil Andrist or any others would be interested. Mr. Andrist said he would be interested in reviewing them.
- Comment – think Bigelow and the City Engineer should go door-to-door of those involved.
- Will there be a convenance?
- What is their timeframe?
 - Chair Bradford said we haven't heard but anticipate in the spring.
- Chair Bradford said he asked if these would be spec or custom homes. Our Engineer didn't have an answer at our Infrastructure Meeting. We are waiting for an answer.

Motion was made by Commissioner Hoaglund and seconded by Commissioner Kinney to recess the public hearing to the Planning Commission Meeting on November 14, 2022.

Vote: 5 ayes / 0 nays. Motion carried.

3 Adjourn

Meeting adjourned at 7:10 p.m.

Respectfully Submitted,

Shirley R Buecksler
City Clerk-Treasurer



Planning Commission Report

To: Chair and Commissioners
 From: Shirley Buecksler, City Clerk-Treasurer
 Date: November 14, 2022

Area 15 Preliminary Plat Application (PID 130210401)

REQUEST:

Bigelow Homes, LLC, has submitted a preliminary plat application for PID 130210401, referred to as Area 15, to plat the land into 36 single family residential lots (R-1). Neighboring property owners and other interested parties were notified of the public hearing, and notice was published in the Dodge County Independent.

The Planning Commission held a Special Meeting on October 24, 2022 and took public comment during the public hearing. Further discussion, however, between the Developer, WHKS and the City was necessary and, therefore, the Planning Commission *continued the public hearing* from October 24th to tonight's meeting. With this continuation of the public hearing, there was no requirement to republish the notice in the newspaper nor send notifications to surrounding property owners. At the recommendation of Council, Staff mailed out 'Save the Date' post cards to the surrounding property owners originally notified of the public hearing.

The Planning Commission should reopen the public hearing to take public comment on the preliminary plat. After closing the public hearing and based on discussion, the Planning Commission shall make a recommendation to the City Council. An example of such recommendation may be, "a motion to recommend approval on condition that the developer meet all requirements of City Staff and consultants."

CURRENT USES AND ZONING:

	Use	Zoning
Subject Property	Residential <i>(36 proposed single family homes)</i>	R-1 – Single Family Residential
Properties to the North	Residential <i>(Single Family Homes)</i>	R-1 – Single Family Residential
Properties to the East	Residential <i>(Single Family Homes)</i>	Residential <i>(Mantorville Township)</i>
Properties to the South	Ag Land	Ag Land <i>(Mantorville Township)</i>
Properties to the West	Residential <i>(Single Family Homes)</i>	Residential <i>(Mantorville Township)</i>

STAFF RECOMMENDATION:

The Planning Commission should reopen the public hearing and take public comment on the preliminary plat, close the public hearing and, based on discussion, make a recommendation to the City Council.

**CITY OF MANTORVILLE
APPLICATION FOR PRELIMINARY PLAT**

***Fee required: \$350 +\$1.00 per lot**
***Escrow required: \$1,000**
***Preliminary plat prepared by licensed surveyor and general development plans also required at the time of application**

Date Filed _____ Date Fee/Escrow Paid \$1,386.00

Date Considered Complete _____

Street Address of Property XXXX Cty Rd 15

Legal Description of Property See attached Exhibit A
(attach additional page if necessary)

PID# (s) 13.021.0401

Owner's Name Bigelow Homes LLC (Tony Bigelow)

Address 4057 28th ST NW Rochester, MN 55901

Phone 507-529-1161 Alternate Number or Email tony@bigelowhomes.net

Applicant (If other than owner) _____

Address _____

Description of Request: Plat existing land into single family lots and connect to City sewer

Present Zoning Classification: R1 ___ R2 ___ Commercial ___ Transitional ___ Historic ___

Existing Use of Property Agricultural Land for crop farming

Future Use of Property Single Family Lots and Homes

___ All materials required by Code submitted (preliminary plat, general development plans).

Signature of Owner(s) Tony Bigelow v.p. Date 9-7-2022

Signature of Applicant (if different) _____ Date _____

Public Hearing Date: 10.24.2022 Published Notice Date: 10.13.2022

10.13.22 Notice has been mailed to all properties within 350' of the proposed plan. (Attach Notice)

10.13.22 Notice has been mailed to all required utility companies. (Attach Notice)

Council granted preliminary approval on _____

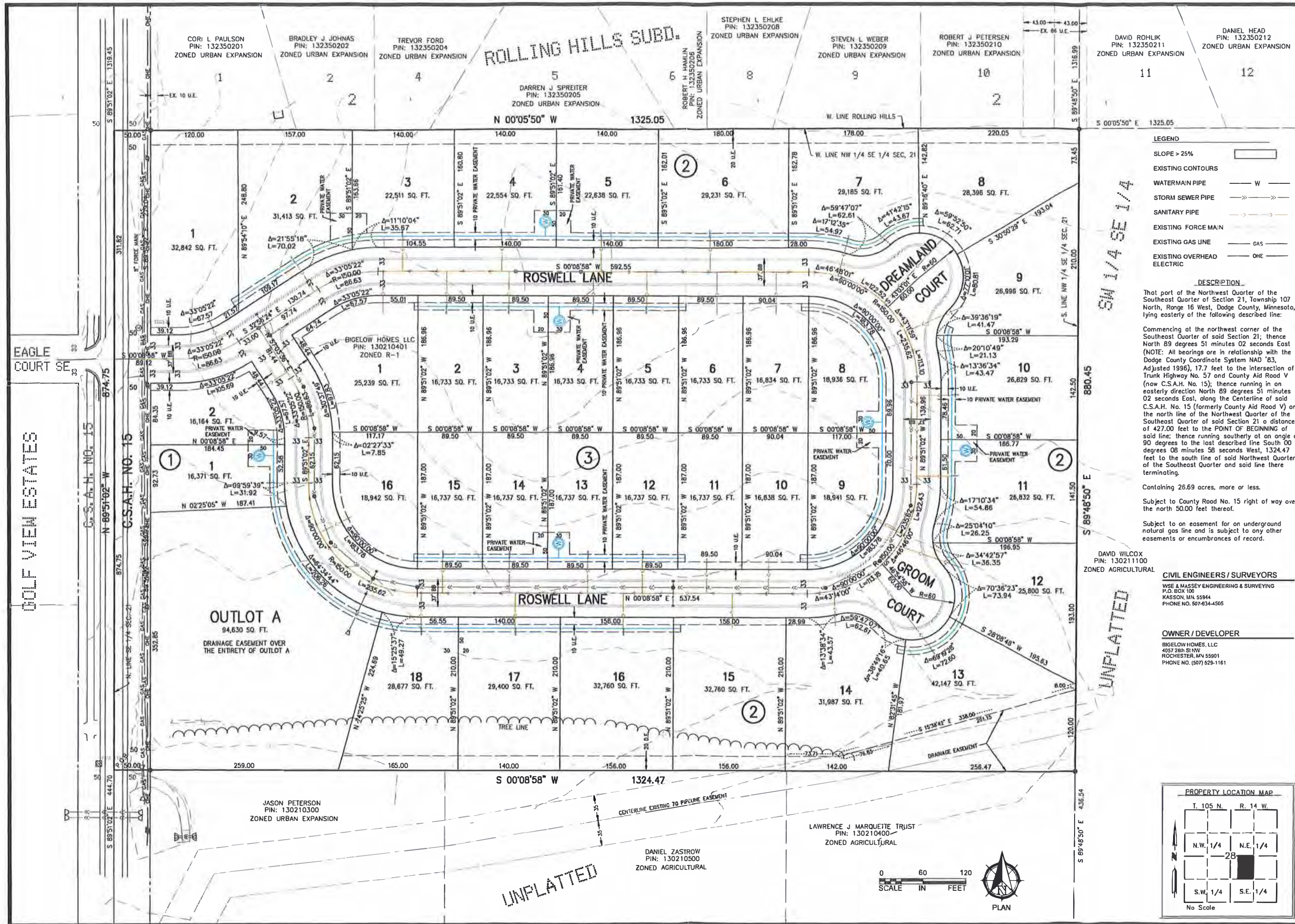
Council granted final approval _____

Attached copies of response from utility companies. No response received.

Other Information:

376ASPO1.dwg

8/19/2022 7:38:30 AM



LEGEND

SLOPE > 25%	[Symbol]
EXISTING CONTOURS	[Symbol]
WATERMAIN PIPE	W
STORM SEWER PIPE	[Symbol]
SANITARY PIPE	[Symbol]
EXISTING FORCE MAIN	[Symbol]
EXISTING GAS LINE	GAS
EXISTING OVERHEAD ELECTRIC	OHE

DESCRIPTION

That part of the Northwest Quarter of the Southeast Quarter of Section 21, Township 107 North, Range 16 West, Dodge County, Minnesota, lying easterly of the following described line:

Commencing at the northwest corner of the Southeast Quarter of said Section 21; thence North 89 degrees 51 minutes 02 seconds East (NOTE: All bearings are in relationship with the Dodge County Coordinate System NAD '83, Adjusted 1996), 17.7 feet to the intersection of Trunk Highway No. 57 and County Aid Road V (now C.S.A.H. No. 15); thence running in an easterly direction North 89 degrees 51 minutes 02 seconds East, along the Centerline of said C.S.A.H. No. 15 (formerly County Aid Road V) and the north line of the Northwest Quarter of the Southeast Quarter of said Section 21 a distance of 427.00 feet to the POINT OF BEGINNING of said line; thence running southerly at an angle of 90 degrees to the last described line South 00 degrees 08 minutes 58 seconds West, 1324.47 feet to the south line of said Northwest Quarter of the Southeast Quarter and said line there terminating.

Containing 26.69 acres, more or less.

Subject to County Road No. 15 right of way over the north 50.00 feet thereof.

Subject to an easement for an underground natural gas line and is subject to any other easements or encumbrances of record.

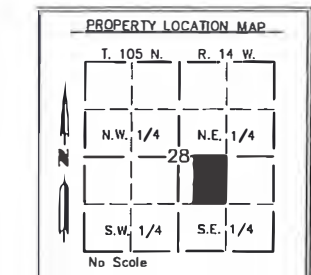
DAVID WILCOX
PIN: 13021100
ZONED AGRICULTURAL

CIVIL ENGINEERS / SURVEYORS

WSE & MASSEY ENGINEERING & SURVEYING
P.O. BOX 100
KASSON, MN 55944
PHONE NO. 507-634-4505

OWNER / DEVELOPER

BIGELOW HOMES, LLC
4057 28th St NW
ROCHESTER, MN 55901
PHONE NO. (507) 525-1161



PH. NO. 507-634-4505
PLANS@WSE.ENGINEERING
www.wse.engineering

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PLAINVIEW OFFICE
320 WEST BROADWAY
SUITE 3
PLAINVIEW, MN 55964

ROCHESTER OFFICE
1712 RESTORATION
DRIVE SW
ROCHESTER, MN 55902

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 Land Surveyor under the laws of the State of Minnesota.

Reinhold W Ziemann
59823 8/18/2022

REV.	DATE	DESCRIPTION

**PRELIMINARY PLAT
AREA 15
DODGE COUNTY, MINNESOTA**

SCALE: 1"=100'

DATE: 8/18/2022

DRAWN BY: G.D.Z.

JOB NUMBER: 376A

DWG. FILE: 376ASPO1

PUBLIC IMPROVEMENTS TO SERVE AREA 15

Dodge County, MN
ISSUE DATE - 8/19/2022
PRELIMINARY PLAT SUBMITTAL

NOTE
CONTRACTOR IS RESPONSIBLE TO NOTIFY THE CITY AND THE OWNER IMMEDIATELY IF UNSUITABLE SOILS ARE ENCOUNTERED.



LEGEND	
—1245—	DENOTES PROPOSED CONTOUR ANNOTATION
x 46 84	DENOTES PROPOSED SPOT ELEVATION
→	DENOTES DRAINAGE DIRECTION
—SF—	DENOTES SILT FENCE OR BIOROLL PER 7-01SDP
⊙	DENOTES INLET PROTECTION PER 7-05SDP
▨	DENOTES PROPOSED EROSION MAT
▨	DENOTES PROPOSED BITUMINOUS
▨	DENOTES EXISTING CONTOURS
—	DENOTES TREE LINE
—	DENOTES WATERMAIN PIPE
—>>	DENOTES STORM SEWER PIPE
—>	DENOTES SANITARY PIPE

Sheet List Table	
SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	TYPICAL SECTIONS
3	OVERALL LAYOUT
4	PLAN & PROFILE
5	PLAN & PROFILE
6	PLAN & PROFILE
7	PLAN & PROFILE
8	PLAN & PROFILE
9	DETAILS
10	DETAILS
11	DETAILS
12	DETAILS
13	SWPPP
14	SWPPP
15	POND DETAIL

Approved By: _____ Date _____
City Engineer



UTILITY QUALITY LEVEL
The subsurface utility information in this plan is quality level D. This quality level was determined according to the guidelines of CIVASCE 38-2, entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data."

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Les Conway
Les Conway
23292 8/19/2022
Number Date

REV.	DATE	DESCRIPTION

TITLE SHEET
AREA 15
DODGE COUNTY, MINNESOTA

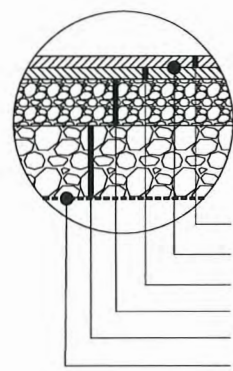
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DWG. FILE: 23.3-213764 CT01.dwg

Project Number 23.3-213746

Sheet 1 of 14

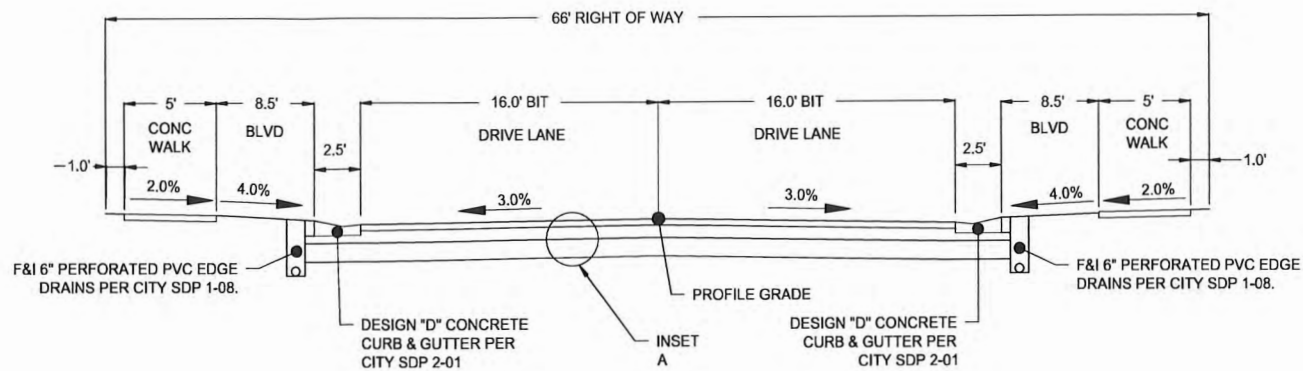
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INSET A
BITUMINOUS ROAD SECTION

- 2.0" BITUMINOUS WEAR COURSE, MN DOT 2360
- 2357 BITUMINOUS TACK COAT
- 2.0" BITUMINOUS BASE COURSE, MN DOT 2360
- 8" MN DOT CLASS 5 AGGREGATE BASE
- 12" SELECT GRANULAR FILL UNDER CLASS 5 AGGREGATE BASE
- MnDOT TYPE V GEOTEXTILE SEPARATION FABRIC



CENTER LINE IS 0.23' ABOVE TOP OF CURB FOR THE PUBLIC STREET

ROSWELL LANE, GROOM COURT, AND DREAMLAND COURT



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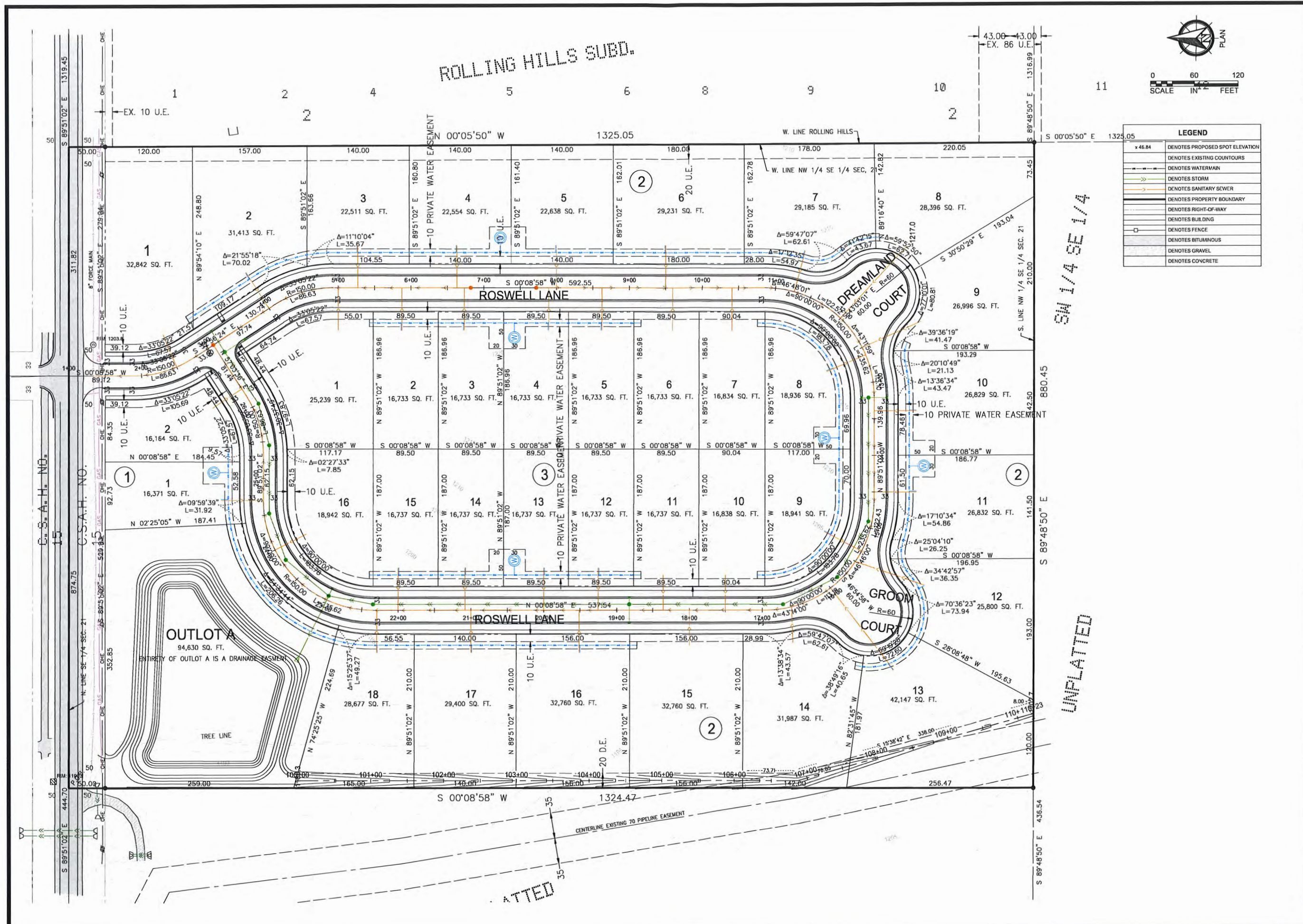
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**TYPICAL SECTIONS
AREA 15
DODGE COUNTY, MINNESOTA**

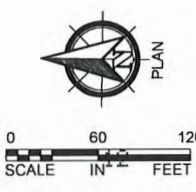
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ROLLING HILLS SUBD.



LEGEND	
x 46.84	DENOTES PROPOSED SPOT ELEVATION
---	DENOTES EXISTING COUNTOURS
---	DENOTES WATERMAIN
---	DENOTES STORM
---	DENOTES SANITARY SEWER
---	DENOTES PROPERTY BOUNDARY
---	DENOTES RIGHT-OF-WAY
---	DENOTES BUILDING
---	DENOTES FENCE
---	DENOTES BITUMINOUS
---	DENOTES GRAVEL
---	DENOTES CONCRETE

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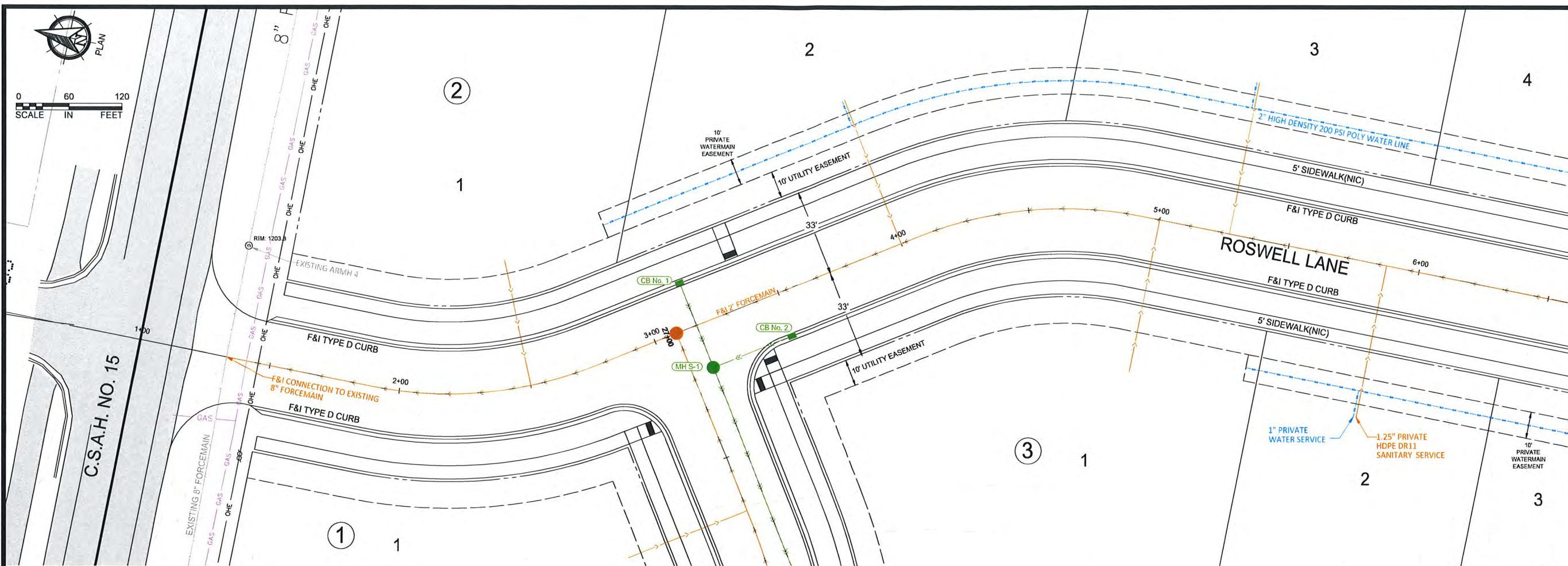
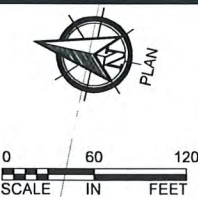
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**OVERALL LAYOUT
AREA 15
DODGE COUNTY, MINNESOTA**

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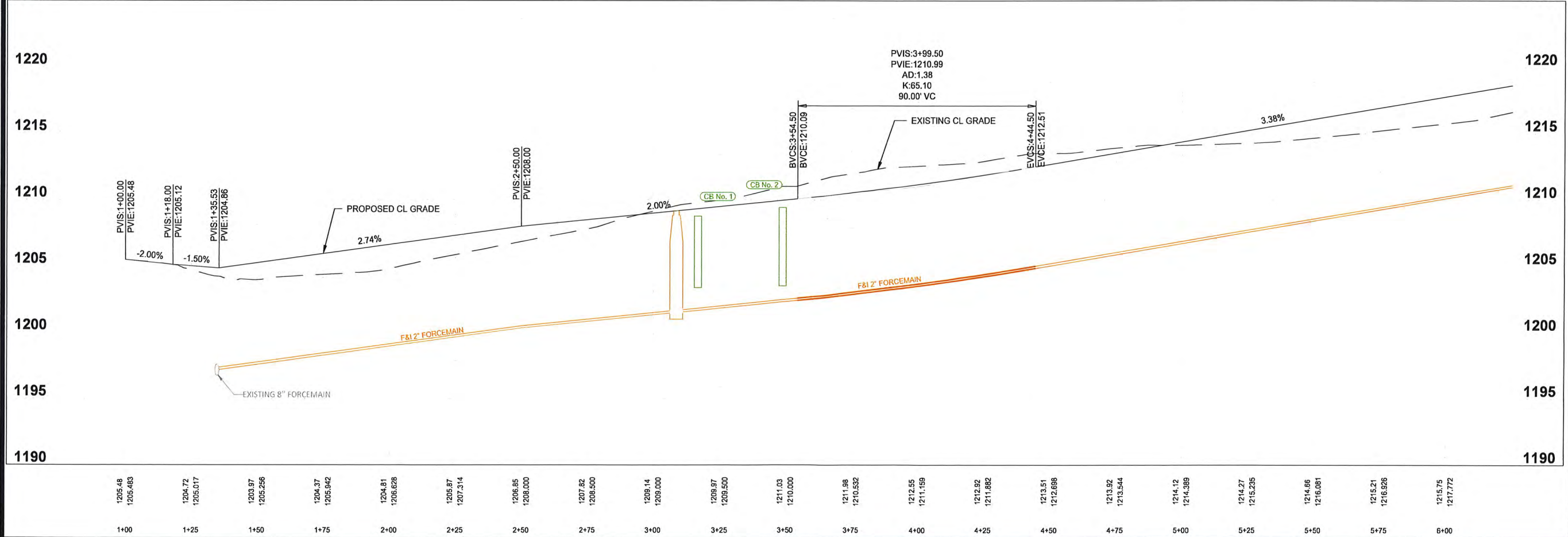
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REV.	DATE	DESCRIPTION

1225 1225



PLAN & PROFILE
AREA 15
DODGE COUNTY, MINNESOTA

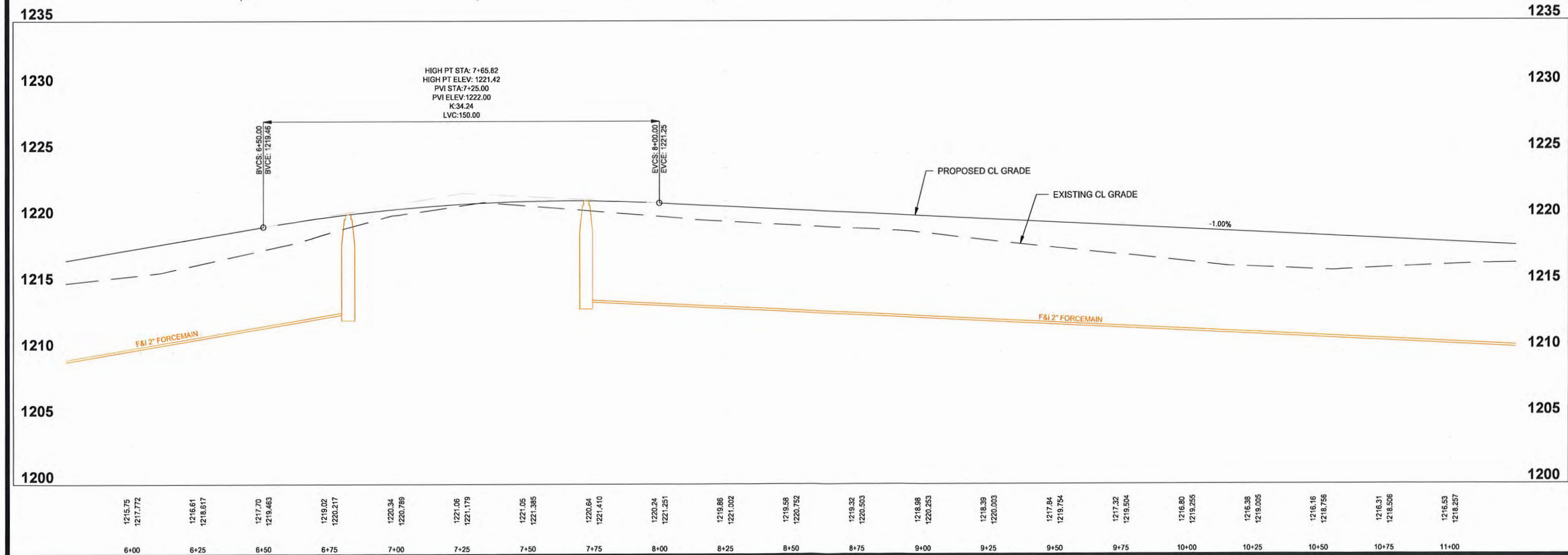
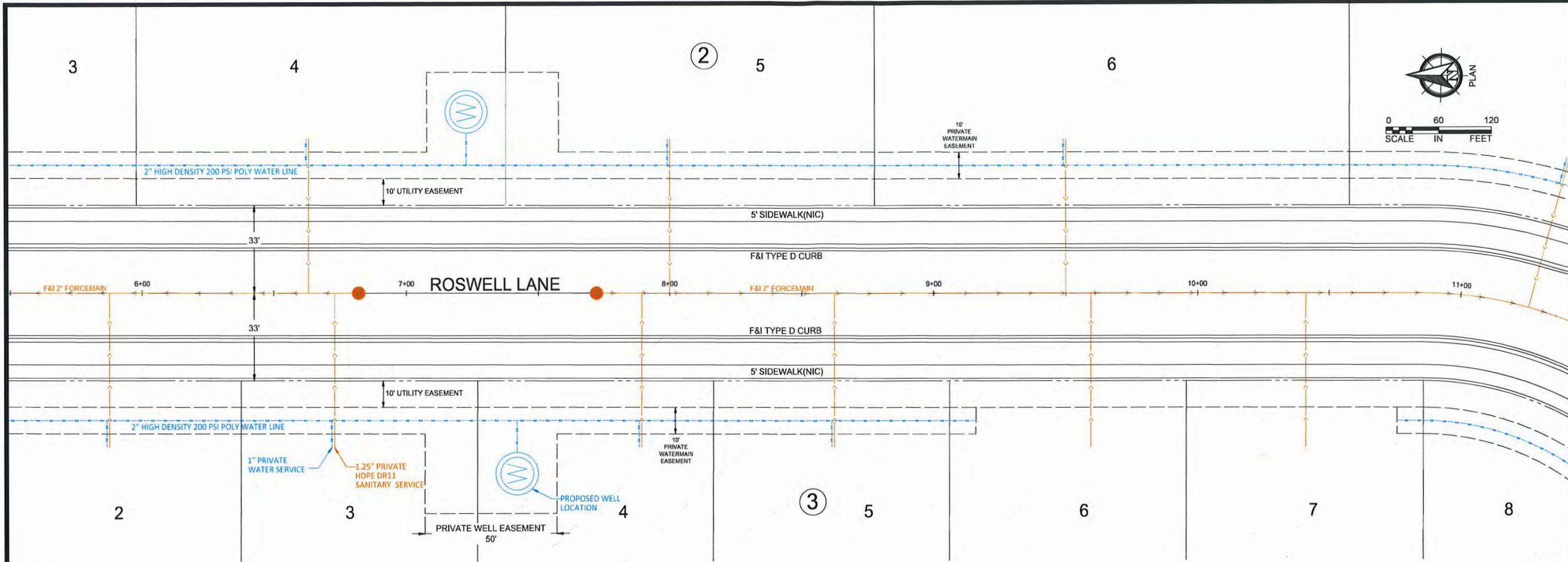
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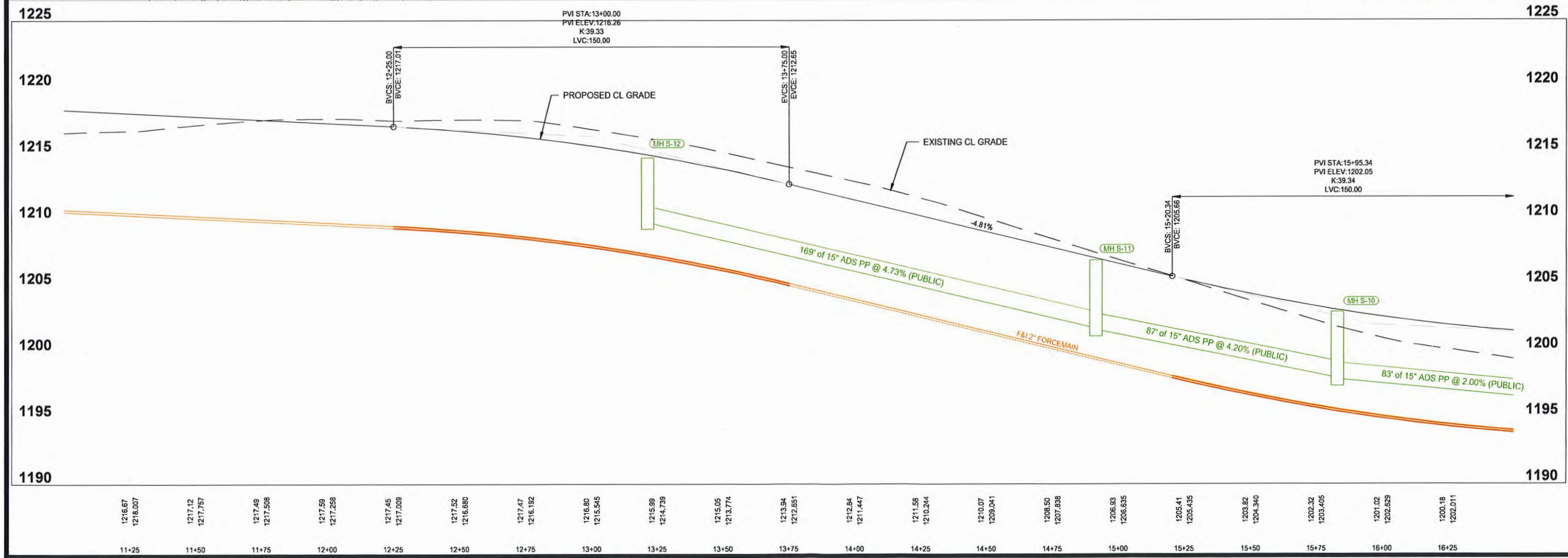
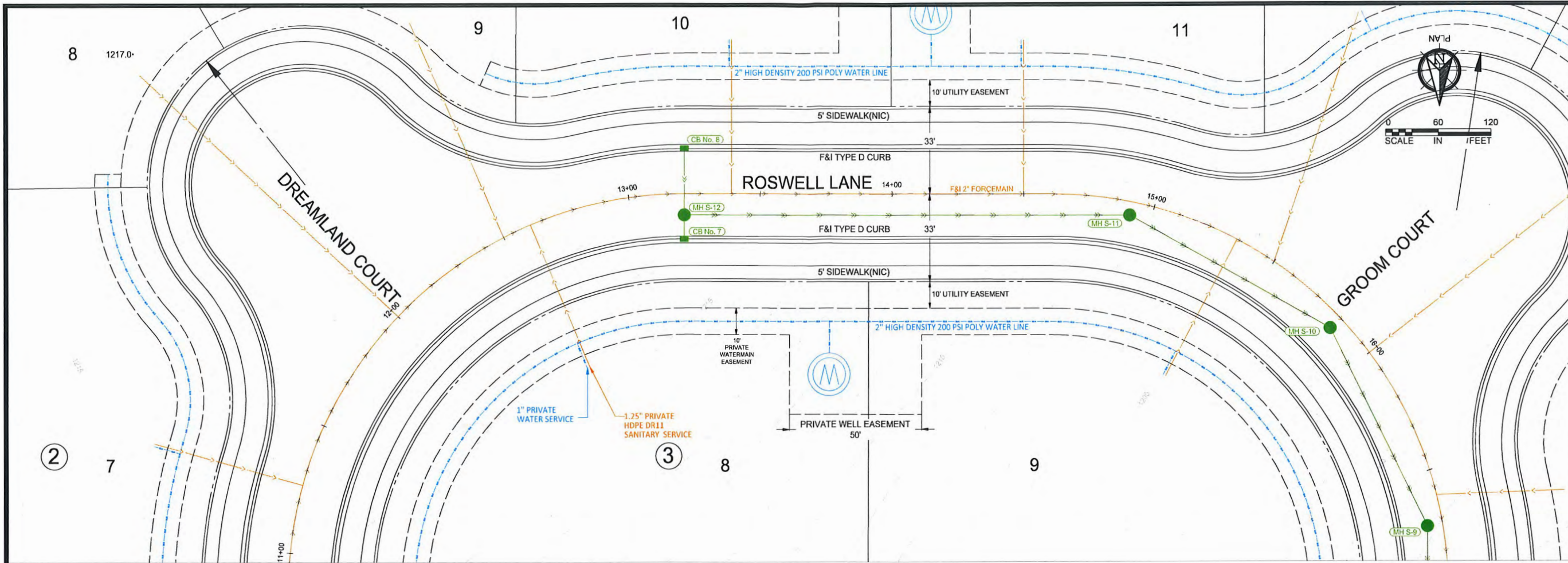
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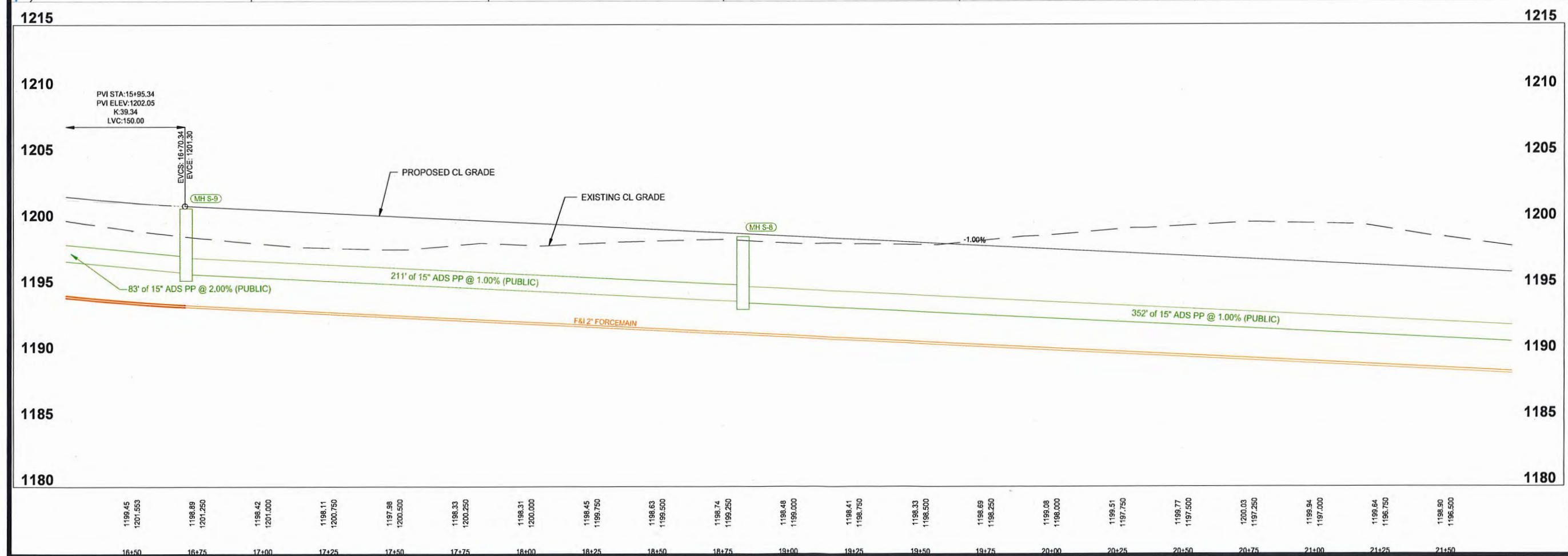
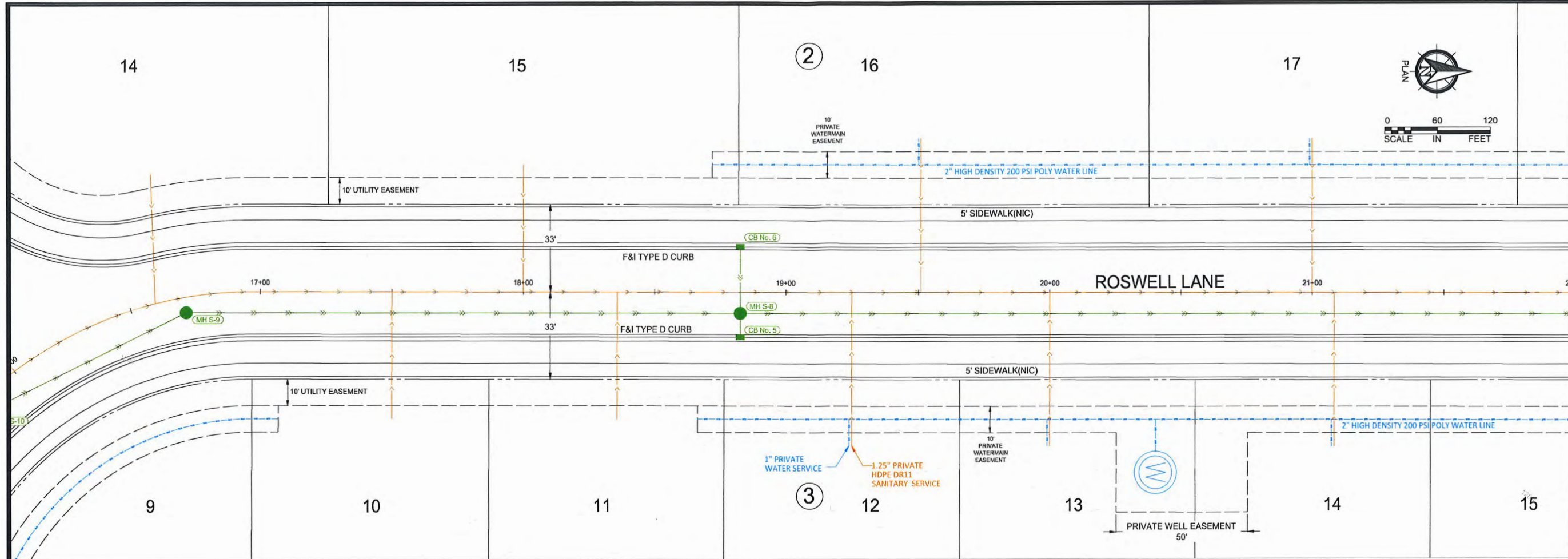
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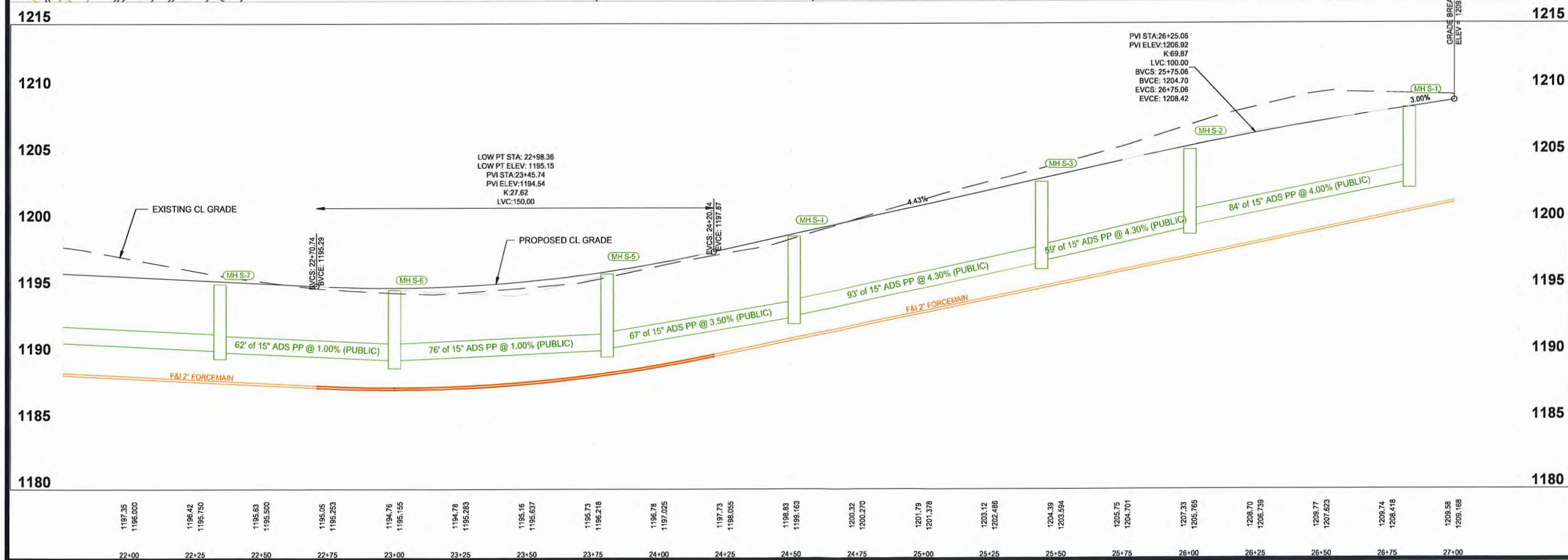
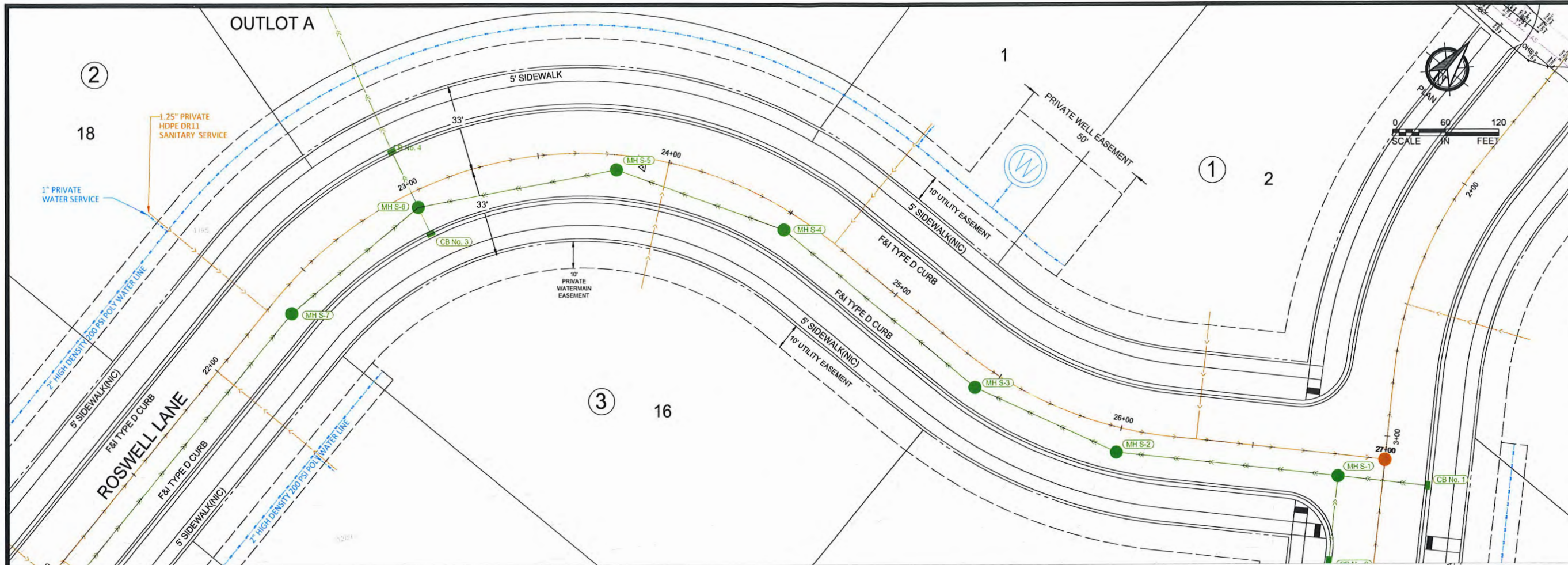
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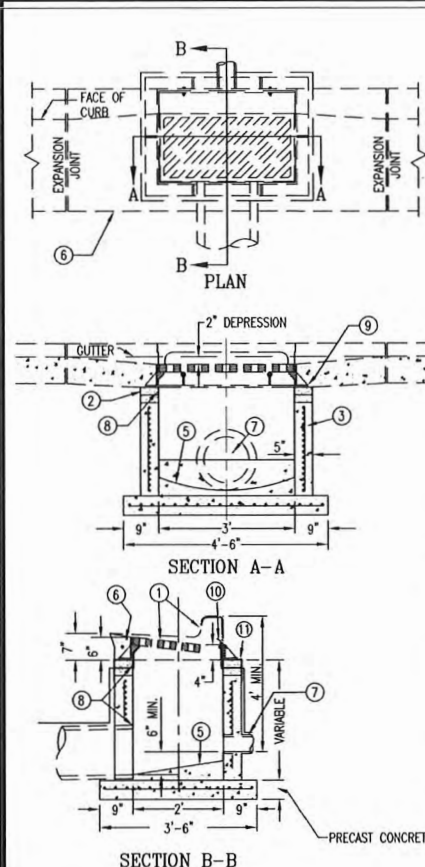
Les Conway
Les Conway
23292 8/19/2022
Number Date

REV.	DATE	DESCRIPTION

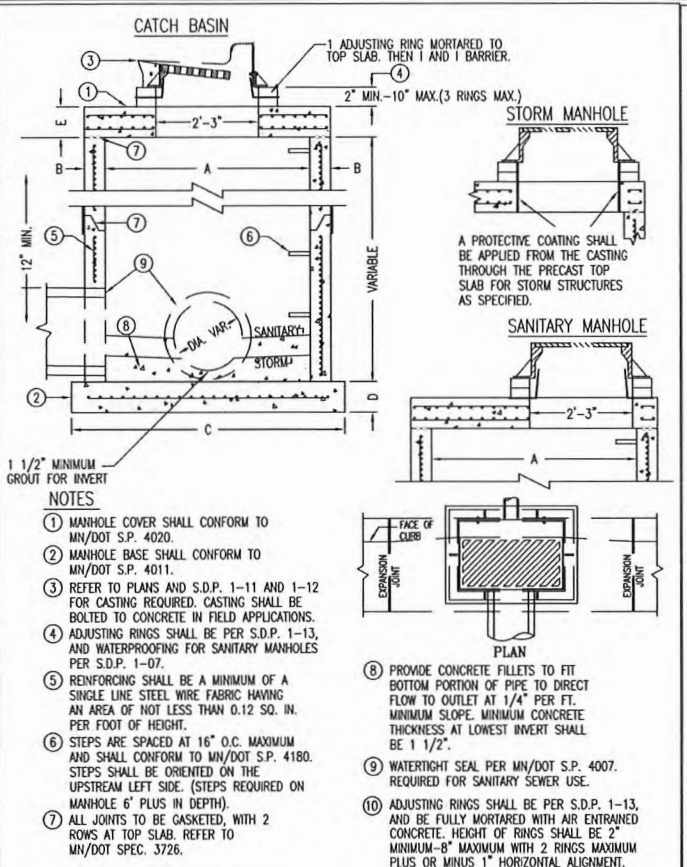
PLAN & PROFILE
AREA 15
DODGE COUNTY, MINNESOTA

SCALE: AS SHOWN
DATE: 8/19/2022
DRAWN BY: TAC
JOB NUMBER: 023-3-213764
DWG. FILE: 23-3-213764-GP01.dwg

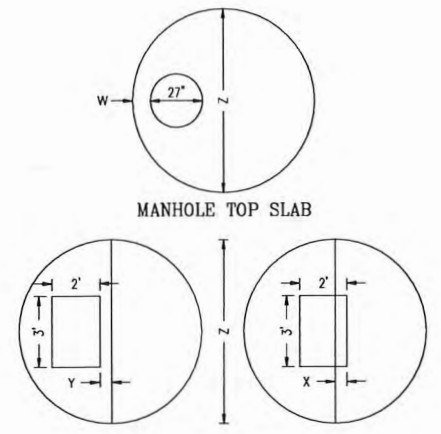
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- NOTES**
- REFER TO PLANS AND S.D.P. 1-11 & 1-12 FOR TYPE OF FRAME, GRATE AND CURB BOX.
 - ADJUSTING RINGS SHALL BE PER S.D.P. 1-13, AND BE FULLY MORTARED WITH AIR ENTRAINED CONCRETE. HEIGHT OF RINGS SHALL BE 2" MINIMUM-10" MAXIMUM WITH 3 RINGS MAXIMUM PLUS OR MINUS. MAX 1" HORIZONTAL OFF CURB ALIGNMENT.
 - REINFORCING SHALL BE A MINIMUM OF SINGLE LINE STEEL WIRE FABRIC HAVING AN AREA OF NOT LESS THAN 0.12 SQ. IN. PER FOOT OF HEIGHT.
 - NO STEPS REQUIRED.
 - PROVIDE CONCRETE FILLETS TO FIT BOTTOM PORTION OF STRUCTURE AND TO DIRECT THE FLOW TO OUTLET AT MINIMUM SLOPE OF 1/4" PER FOOT. MINIMUM CONCRETE THICKNESS AT OUTLET 1 1/2".
 - SEE S.D.P. 2-01, 2-05 AND 2-06 FOR CURB, GUTTER AND REINFORCEMENT DETAILS AT CATCH BASINS.
 - SEE S.D.P. 1-08 FOR SUBDRAIN DETAILS AT CATCH BASINS AS SHOWN ON PLANS.
 - CONCRETE BLOCK WITH NON SHRINK GROUT. NON SHRINK GROUT SHALL BE AIR-ENTRAINED. INTERIOR SHALL BE TUCK POINTED BRUSHED SMOOTH. EXTERIOR SHALL BE BACKPLASTERED.
 - SHIM BETWEEN TOP ADJUSTING RING AND CASTING. FILL ANNUAL SPACE WITH AIR-ENTRAINED NONSHRINK. SHIM SHALL BE PLASTIC OR CONCRETE (WOOD OR OTHER DISSIMILAR MATERIALS NOT ACCEPTABLE).
 - TRACER WIRE
 - INFIL-SHIELD LIN-BAND OR APPROVED EQUAL (INCIDENTAL ITEM)

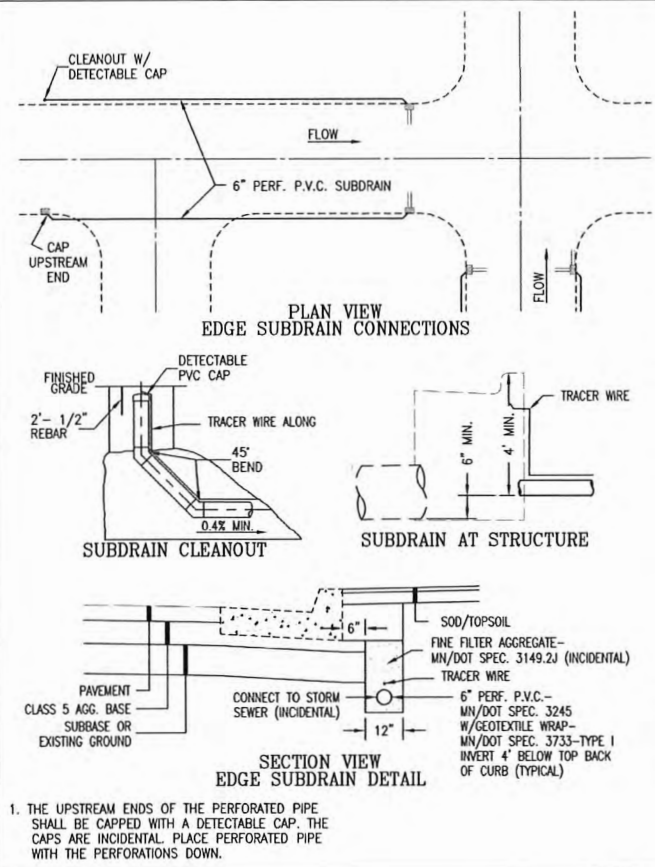


- NOTES**
- MANHOLE COVER SHALL CONFORM TO MN/DOT S.P. 4020.
 - MANHOLE BASE SHALL CONFORM TO MN/DOT S.P. 4011.
 - REFER TO PLANS AND S.D.P. 1-11 AND 1-12 FOR CASTING REQUIRED. CASTING SHALL BE BOLTED TO CONCRETE IN FIELD APPLICATIONS.
 - ADJUSTING RINGS SHALL BE PER S.D.P. 1-13, AND WATERPROOFING FOR SANITARY MANHOLES PER S.D.P. 1-07.
 - REINFORCING SHALL BE A MINIMUM OF A SINGLE LINE STEEL WIRE FABRIC HAVING AN AREA OF NOT LESS THAN 0.12 SQ. IN. PER FOOT OF HEIGHT.
 - STEPS ARE SPACED AT 16" O.C. MAXIMUM AND SHALL CONFORM TO MN/DOT S.P. 4180. STEPS SHALL BE ORIENTED ON THE UPSTREAM LEFT SIDE. (STEPS REQUIRED ON MANHOLE 6" PLUS IN DEPTH).
 - ALL JOINTS TO BE GASKETED, WITH 2 ROWS AT TOP SLAB. REFER TO MN/DOT SPEC. 3726.
 - PROVIDE CONCRETE FILLETS TO FIT BOTTOM PORTION OF PIPE TO DIRECT FLOW TO OUTLET AT 1/4" PER FT. MINIMUM SLOPE. MINIMUM CONCRETE THICKNESS AT LOWEST INVERT SHALL BE 1 1/2".
 - WATERTIGHT SEAL PER MN/DOT S.P. 4007. REQUIRED FOR SANITARY SEWER USE.
 - ADJUSTING RINGS SHALL BE PER S.D.P. 1-13, AND BE FULLY MORTARED WITH AIR ENTRAINED CONCRETE. HEIGHT OF RINGS SHALL BE 2" MINIMUM-8" MAXIMUM WITH 2 RINGS MAXIMUM PLUS OR MINUS 1" HORIZONTAL ALIGNMENT.



ALTERNATE TOP SLAB FOR MANHOLE

MH TOP SLAB	MANHOLE DIMENSIONS	MAX. PIPE SIZE
W X Y Z	A B C D E	135'-180' 90'
6' 9" -	58" 48" 5" 64" 6" 6"	27" 18"
6' 6" -	65" 54" 5.5" 72" 8" 8"	33" 21"
7' 3" -	72" 60" 6" 78" 8" 8"	36" 24"
7' 0" -	79" 66" 6.5" 85" 8" 8"	42" 30"
8' -	86" 72" 7" 92" 8" 8"	42" 33"
8' -	93" 78" 7.5" 100" 8" 8"	48" 36"
9' -	100" 84" 8" 106" 8" 8"	54" 42"
9' -	107" 90" 8.5" 114" 8" 8"	60" 42"
9' -	114" 96" 9" 120" 8" 8"	60" 42"
9' -	121" 102" 9.5" 127" 8" 8"	60" 48"
10' -	126" 108" 10" 132" 9" 12"	60" 54"
11' -	140" 120" 10" 146" 12" 12"	60" 60"



- NOTES**
- THE UPSTREAM ENDS OF THE PERFORATED PIPE SHALL BE CAPPED WITH A DETECTABLE CAP. THE CAPS ARE INCIDENTAL PLACE PERFORATED PIPE WITH THE PERFORATIONS DOWN.

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PLAINVIEW OFFICE
320 WEST BROADWAY
SUITE 3
PLAINVIEW, MN 55964

ROCHESTER OFFICE
1712 RESTORATION
DRIVE SW
ROCHESTER, MN 55902

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.

San Bussey
Les Conway
23292 8/19/2022
Number Date

REV.	DATE	DESCRIPTION

whks STRUCTURE TYPE 1
CITY OF KASSON

REVISED: 9/04/20
SHEET: 1 OF 1
PLATE NO. 1-01

whks STRUCTURE TYPE 4 (XX in.)
CITY OF KASSON

REVISED: 9/04/20
SHEET: 1 OF 1
PLATE NO. 1-04

WSE MASSEY ENGINEERING & SURVEYING
KASSON, MN 55944
STRUCTURE TYPE 4
SHT 2 OF 2 SHTS DATE REVISED 4/25/06 PLATE NO. 1.04 REV. B

whks SUBSURFACE EDGE DRAINS
CITY OF KASSON

REVISED: 9/04/20
SHEET: 1 OF 2
PLATE NO. 1-08

TABLE OF QUANTITIES RIPRAP AT RCP OUTLETS

DIA. OF ROUND PIPE (IN.)	CLASS II $d_{50} = 6"$				CLASS III $d_{50} = 9"$				CLASS IV $d_{50} = 12"$			
	L	GEOTEXTILE FILTER UNDER RIPRAP	12" DEPTH GRANULAR UNDER RIPRAP	18" DEPTH GRANULAR UNDER RIPRAP	L	GEOTEXTILE FILTER UNDER RIPRAP	12" DEPTH GRANULAR UNDER RIPRAP	18" DEPTH GRANULAR UNDER RIPRAP	L	GEOTEXTILE FILTER UNDER RIPRAP	12" DEPTH GRANULAR UNDER RIPRAP	18" DEPTH GRANULAR UNDER RIPRAP
12	8	18.0	0.2	3.0	19.6	0.3	4.4	23.9	0.4	6.4	6.4	
15	10	22.4	0.3	4.3	29.6	0.4	6.4	39.0	0.5	8.5	8.5	
21	10	24.1	0.4	4.7	27.4	0.6	7.1	30.5	0.7	9.4	9.4	
24	12	29.7	0.5	6.2	33.4	0.8	9.2	37.3	1.0	12.3	12.3	
27	12	31.4	0.6	6.6	35.2	0.9	9.9	39.2	1.2	13.2	13.2	
30	14	37.4	0.8	8.2	41.6	1.1	12.3	46.0	1.5	16.4	16.4	
36	16	45.9	1.1	10.6	50.5	1.4	15.8	55.4	2.1	21.1	21.1	
42	18	52.8	1.2	12.5	57.8	1.7	18.7	63.0	2.3	24.9	24.9	
48	20	61.1	1.5	14.8	66.5	2.2	22.2	72.0	2.9	28.6	28.6	

TABLE OF QUANTITIES RIPRAP AT RCP-A OUTLETS

SPAN OF PIPE (IN.)	CLASS II $d_{50} = 6"$				CLASS III $d_{50} = 9"$				CLASS IV $d_{50} = 12"$			
	L	GEOTEXTILE FILTER UNDER RIPRAP	12" DEPTH GRANULAR UNDER RIPRAP	18" DEPTH GRANULAR UNDER RIPRAP	L	GEOTEXTILE FILTER UNDER RIPRAP	12" DEPTH GRANULAR UNDER RIPRAP	18" DEPTH GRANULAR UNDER RIPRAP	L	GEOTEXTILE FILTER UNDER RIPRAP	12" DEPTH GRANULAR UNDER RIPRAP	18" DEPTH GRANULAR UNDER RIPRAP
22	10	22.4	0.3	4.3	25.6	0.4	6.1	25.0	0.5	8.1	8.1	
28	12	29.5	0.5	5.7	33.2	0.7	8.3	31.4	0.9	11.3	11.3	
36	14	37.3	0.8	7.5	41.9	1.1	11.2	45.8	1.5	14.9	14.9	
43	16	45.9	1.1	9.5	50.5	1.4	14.1	55.3	2.1	19.1	19.1	
51	18	52.5	1.2	11.3	57.5	1.7	16.9	62.7	2.3	22.5	22.5	
58	20	59.9	1.5	13.2	65.2	1.9	19.8	70.7	2.5	26.4	26.4	

NOTES:

- REQUIREMENTS FOR GEOTEXTILE TYPE, RIPRAP SIZE AND THICKNESS WILL BE DESIGNATED IN THE PLANS. PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.
- FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5".
- GEOTEXTILE FILTER, SPEC. 3733, SHALL COVER THE BOTTOM AND SIDES OF THE AREA EXCAVATED FOR THE RIPRAP. GRANULAR FILTER MATERIALS.
- DIMENSION E IS GIVEN ON STANDARD PLATES 3100 AND 3110.
- GRANULAR FILTER, SPEC. 3601, MAY BE USED AS A CUSHION LAYER. PLACE FILTER PER SPEC. 3601. THE CUSHION LAYER IS INCIDENTAL.
- GRANULAR FILTER OR RIPRAP, SPEC. 3602, TO EXTEND UNDER ENTIRE OPEN PORTION OF PIPE APRON. DEPTH OF MATERIAL UNDER APRON SHALL MATCH RIPRAP DEPTH. WHEN USING RIPRAP INCREASE RIPRAP QUANTITY ACCORDINGLY AND PLACE A 3" LAYER OF 1/2" CRUSHED ROCK UNDER THE APRON TO AID IN GRADING FOR APRON PLACEMENT. CRUSHED ROCK IS INCIDENTAL.

APPROVED DECEMBER 9, 2013
STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
RIPRAP AT RCP OUTLETS
SPECIFICATION REFERENCE NO. 3100 3110 3601 3602 3733 2011
STANDARD PLATE NO. 3133D

WHKS STRUCTURE TYPE 4 (XX in.)
CITY OF KASSON

REVISED: 9/04/20
SHEET: 1 OF 1
PLATE NO. 1-04

NOTES

- 1/2" PREFORMED JOINT FILLER MATERIAL PER MN/DOT SPEC. 3702
- SEE S.D.P. 2-06 FOR CURB REINFORCEMENT AT CATCH BASIN.
- SEE S.D.P. 1-01 FOR CATCH BASIN DETAIL.

WSE MASSEY ENGINEERING & SURVEYING
KASSON, MN 55944
TRANSITION CURB & GUTTER DRIVEOVER TO TYPE B OR V
SHT 1 OF 1 SHTS DATE REVISED 9/23/03 PLATE NO. MLS2.05 REV. A

WHKS STRUCTURE TYPE 4
CITY OF KASSON

REVISED: 9/04/20
SHEET: 1 OF 2
PLATE NO. 1-04 REV. B

NOTES

- CONCRETE MIX: MANUAL PLACEMENT-MN/DOT SPEC. 3A32, SLIP-FORM PLACEMENT-MN/DOT SPEC. 3A22.
- PROVIDE 1/2" EXP. JT. AT 300" MAX SPACING AND TO MATCH PAVEMENT EXP. JTS. IN ADDITION TO EXP. JTS. SHOWN ON OTHER DETAIL PLATES.
- PROVIDE CONTRACTION JTS. @ 9' MAX. SPACING, SAW CUT 2" MIN. DEPTH.
- ALL CONC. C. & G. SHALL BE PLACED ON A MIN. OF 4" CLASS II AGGREGATE BASE.
- SILL REQUIRED FOR DESIGN "V" AND "B", WHEREVER SIDEWALK ABUTS CURB. SEE S.D.P. 2-02.

WSE MASSEY ENGINEERING & SURVEYING
KASSON, MN 55944
CONCRETE CURB & GUTTER DRIVEOVER TO TYPE B OR V
SHT 1 OF 1 SHTS DATE REVISED 6/18/07 PLATE NO. 2.01 REV. C

WHKS SUBSURFACE EDGE DRAINS
CITY OF KASSON

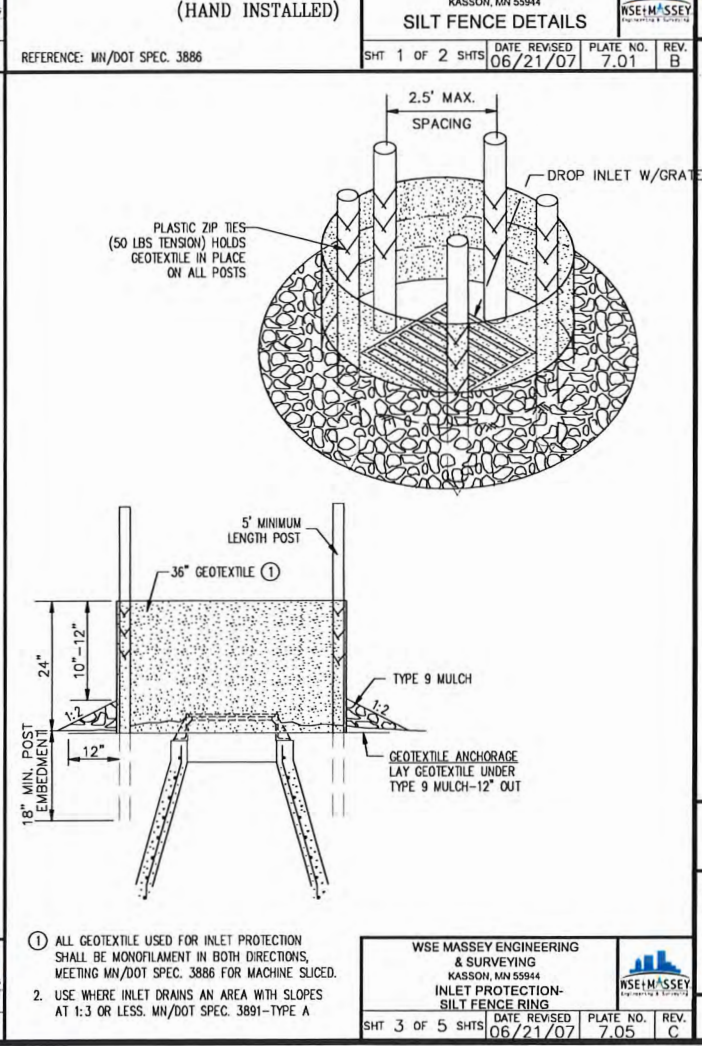
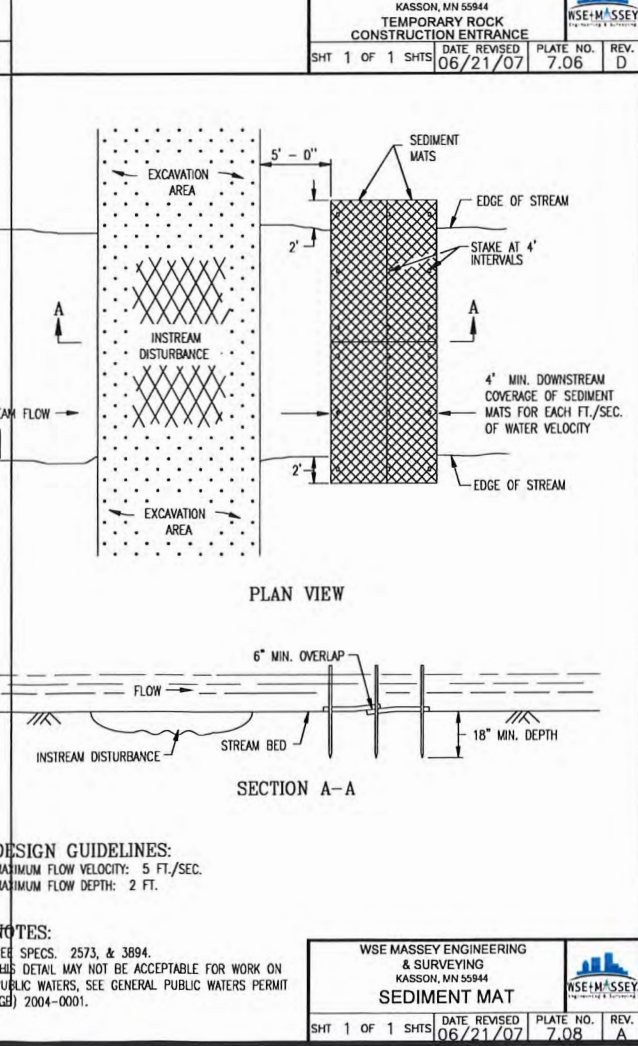
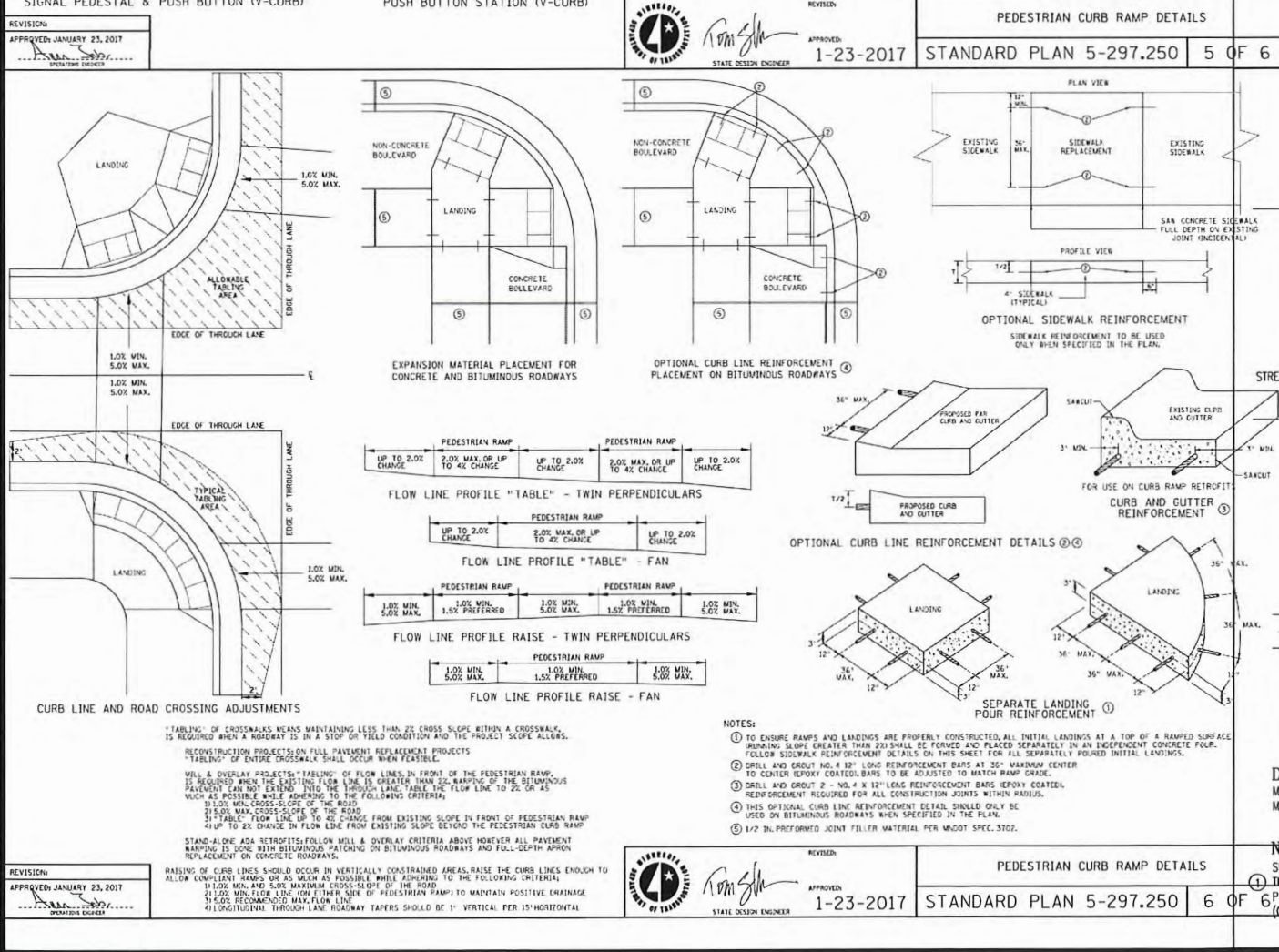
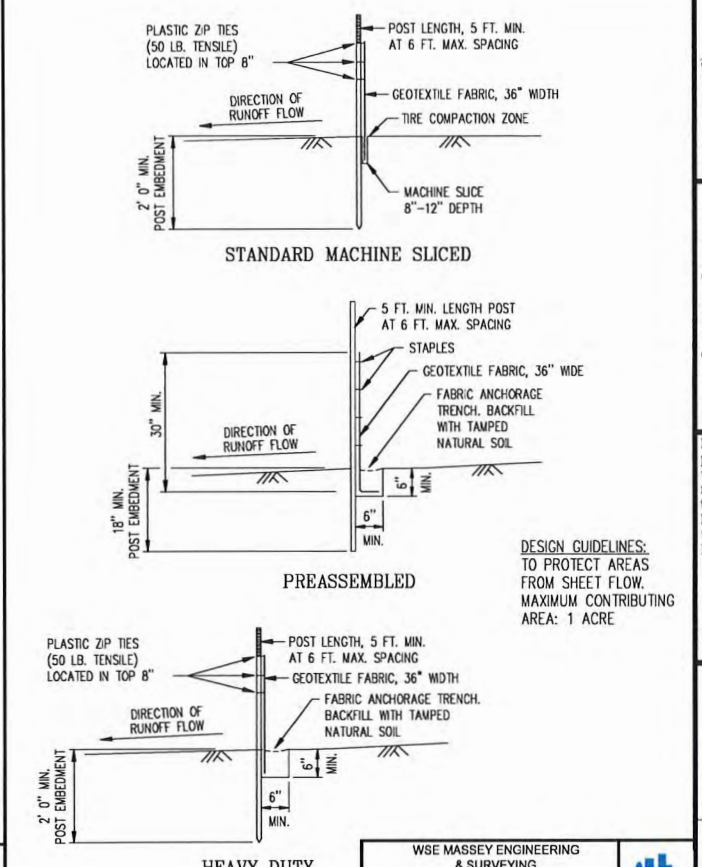
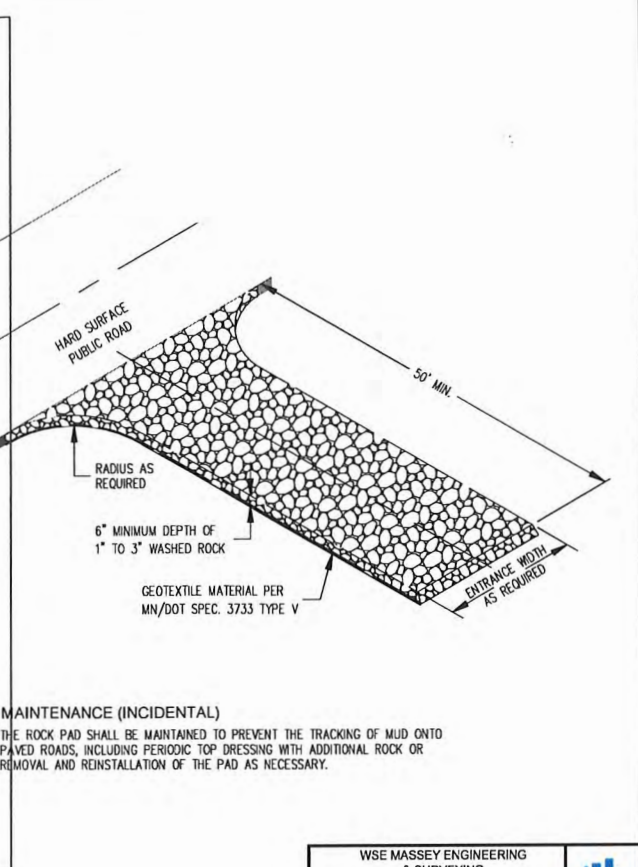
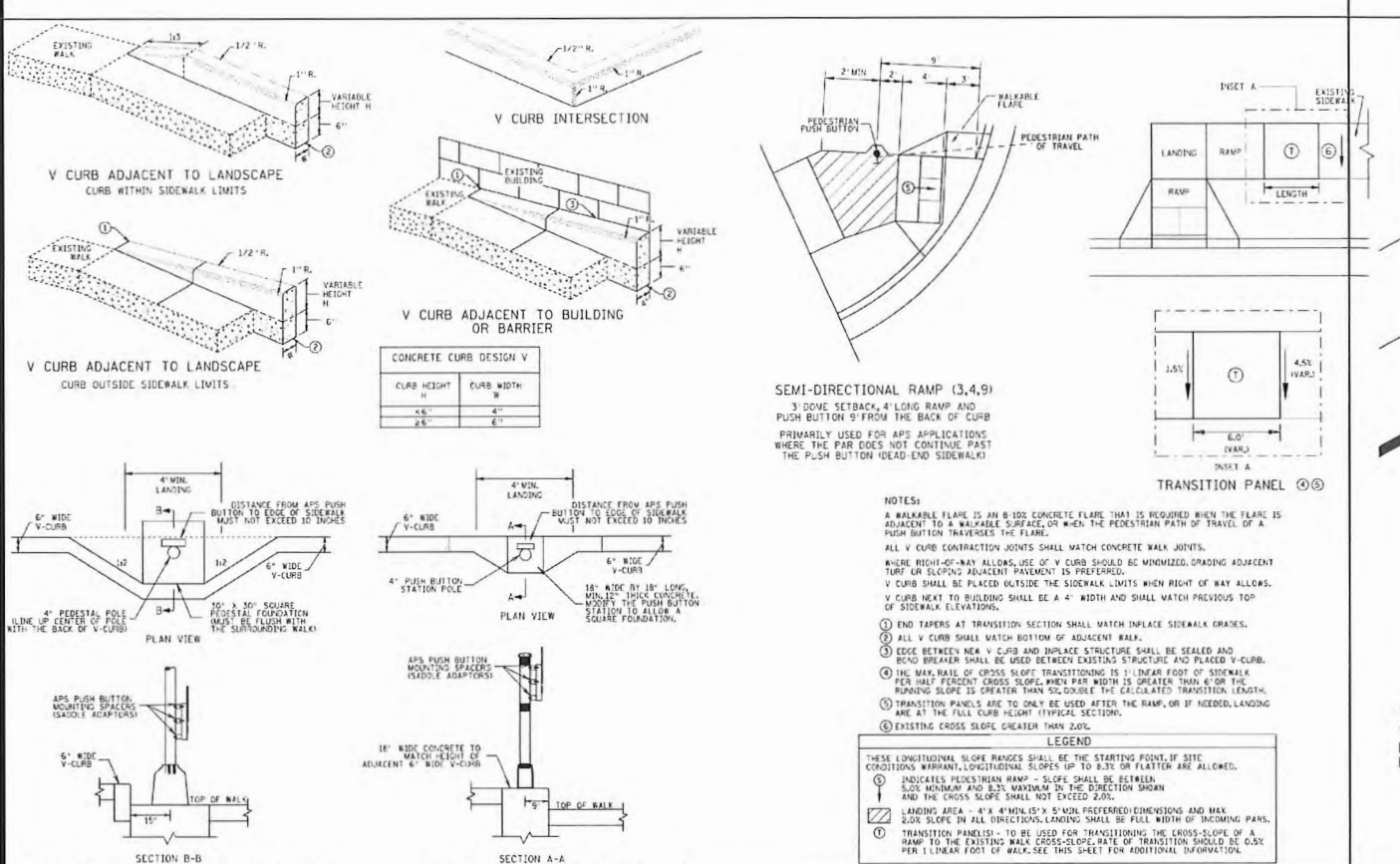
REVISED: 9/04/20
SHEET: 1 OF 2
PLATE NO. 1-08

DETAILS
AREA 15
DODGE COUNTY, MINNESOTA

SCALE: AS SHOWN
DATE: 8/19/2022
DRAWN BY: TAC
JOB NUMBER: 023.3-213764
DWG. FILE: 23.3-213764.GP01.dwg
Sheet 9 of 14

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REVISION	DATE	DESCRIPTION
APPROVED	JANUARY 23, 2017	DESIGN

WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 TEMPORARY ROCK CONSTRUCTION ENTRANCE SHT 1 OF 1 SHTS DATE REVISED 06/21/07 PLATE NO. 7.06 REV. D	WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 SILT FENCE DETAILS SHT 1 OF 2 SHTS DATE REVISED 06/21/07 PLATE NO. 7.01 REV. B
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WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 SEDIMENT MAT SHT 1 OF 1 SHTS DATE REVISED 06/21/07 PLATE NO. 7.08 REV. A	WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 INLET PROTECTION-SILT FENCE RING SHT 3 OF 5 SHTS DATE REVISED 06/21/07 PLATE NO. 7.05 REV. C
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ROCHESTER, MN 55902

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Les Conway
Les Conway
23292 8/19/2022
Number Date

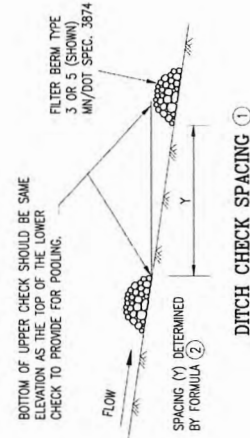
REV.	DATE	DESCRIPTION

DETAILS
AREA 15
DODGE COUNTY, MINNESOTA

SCALE: AS SHOWN
DATE: 8/19/2022
DRAWN BY: TAC
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DWG. FILE: 23-3-213764.GP01.dwg

Sheet 11 of 14

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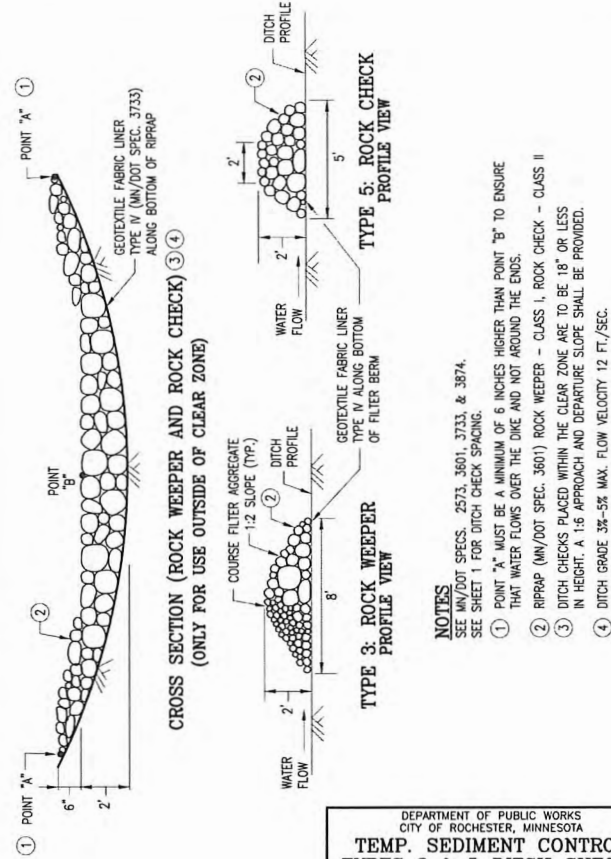


DITCH CHECK SPACING (1)

GENERAL DESIGN GUIDELINES			
DITCH CHECK TYPE	ROCK WEEPER	ROCK CHECK	ROCK CHECK
STORM FREQUENCY:	5 YR. - 24 HR.	5 YR. - 24 HR.	5 YR. - 24 HR.
MAX. FLOW VELOCITY:	12 FT./SEC	12 FT./SEC	12 FT./SEC
MAX. DITCH GRADE:	3% - 5%	3% - 5%	3% - 5%
MAX. DRAINAGE AREA:	4+ ACRE	4+ ACRE	4+ ACRE

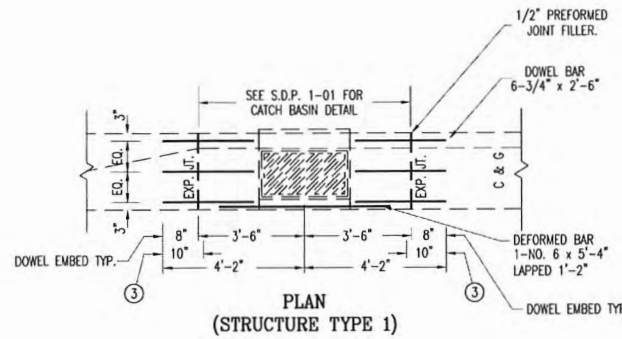
- NOTES**
SEE MN/DOT SPECS. 2573, 3601, 3733 & 3874
- ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE WILL NEED TO BE 18" OR LESS IN HEIGHT. A 1:6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
 - APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM SPACING FORMULA: $(FT.) = Y = \frac{V}{100} \times \text{CHANNEL SLOPE}$

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
TEMP. SEDIMENT CONTROL FILTER BERMS
Diran S. Dehdil
CITY ENGINEER
DATE REVISED: 4/15/20 PLATE NO. 7-03 REV. D
SHT 1 OF 2 SHTS



- NOTES**
SEE MN/DOT SPECS. 2573, 3601, 3733 & 3874.
SEE SHEET 1 FOR DITCH CHECK SPACING.
- POINT "A" MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
 - RRRAP (MN/DOT SPEC. 3601) ROCK WEEPER - CLASS 1, ROCK CHECK - CLASS II
 - DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT. A 1:6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
 - DITCH GRADE 3%-5% MAX. FLOW VELOCITY 12 FT./SEC.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
TEMP. SEDIMENT CONTROL TYPES 3 & 5 DITCH CHECKS
Diran S. Dehdil
CITY ENGINEER
DATE REVISED: 4/15/20 PLATE NO. 7-03 REV. D
SHT 2 OF 2 SHTS



- NOTES**
- DOWEL BARS SHALL BE PER MN/DOT SPEC. 3302 (EPOXY COATED).
 - DEFORMED BAR SHALL BE PER MN/DOT SPEC. 3301 (EPOXY COATED).
 - COAT THE DOWEL BARS WITH A THIN UNIFORM COATING OF AN APPROVED FORM COATING MATERIAL MEETING MN/DOT SPEC. 3902 NOT MORE THAN ONE HOUR BEFORE COVERING WITH CONCRETE, OR WRAP WITH TEFLON TAPE.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
CURB & GUTTER REINFORCEMENT AT CATCH BASINS
Diran S. Dehdil
CITY ENGINEER
DATE REVISED: 1/20/17 PLATE NO. 2-06 REV. E
SHT 1 OF 1 SHTS

CASTINGS - STRUCTURE TYPE 1		CASTINGS - OTHER STRUCTURES	
DESCRIPTION	REMARKS	NEENAH REF. NO.	REMARKS
B 3' CURB INLET FRAME, GRATE & BOX		R-3067	
C 3' DRIVEWAY INLET FRAME & GRATE	USE WHERE DRIVEWAY PRECLUDES USE OF TYPE B IN INTERFACE CURB	R-3290-A	
V 3' CURB INLET FRAME, GRATE & BOX	USE WHEN STREET GRADE EXCEEDS 2%	R-3067	
TYPE	DESCRIPTION	NEENAH REF. NO.	REMARKS
1	9" FRAME & COVER-T GASKETED	R-1916-C	COVER/GRADE SELF-SEALING, BOLTED LID
2	9" FRAME & COVER-T GASKETED	R-1733-B	COVER/GRADE INCLINED TOP
3	7" FRAME & COVER-T GASKETED	R-1642	COVER/GRADE INCLINED TOP
4	7" FRAME & COVER-NON ROOFTOP OR T GASKET	R-1740-B	COVER/GRADE INCLINED TOP
5	9" FRAME & GRATE-NON ROOFTOP OR T GASKET	R-2533	COVER/GRADE FLAT GRATE
6	DITCH GRATE-STOOL TYPE-TALL	R-4341-A	COVER/GRADE STOOL GRATE
7	DITCH GRATE-STOOL TYPE-SHORT	R-4342	COVER/GRADE STOOL GRATE
8	POND SKIMMER GRATE		COVER/GRADE 1/2" STEEL PLATE

- NOTES:**
- CASTINGS SHALL BE ACCORDING TO MN/DOT SPEC. 3321.1-2 SUPPLIED BY FOUNDRIES THAT ARE APPROVED ON THE MN/DOT APPROVED/QUALIFIED PRODUCTS LIST
 - ALL CASTINGS SHALL COMPLY WITH ASHTO M-206
 - ALL CASTINGS SHALL COMPLY WITH U.S. CODE OF FEDERAL REGULATIONS 23CFR635.410. THE "BUY AMERICAN STEEL & IRON" REGULATION
 - ALL STORM SEWER CASTINGS SHALL INCLUDE IMPRINT FISH STAMP AND "JUMP NO WASTE" CORNERS SHALL BE STAMPED FOR SPECIFIC UTILITY (EX. SANITARY SEWER).

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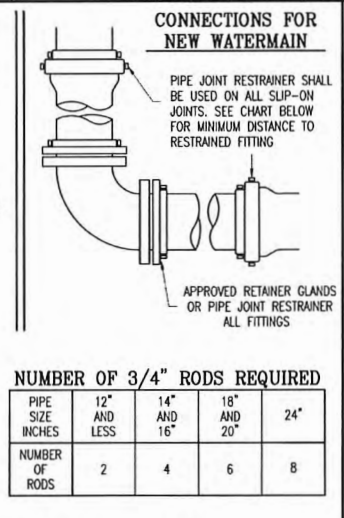
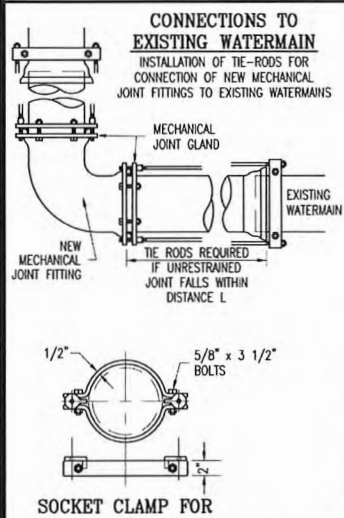
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Les Conway
Les Conway
23292 8/19/2022
Number Date



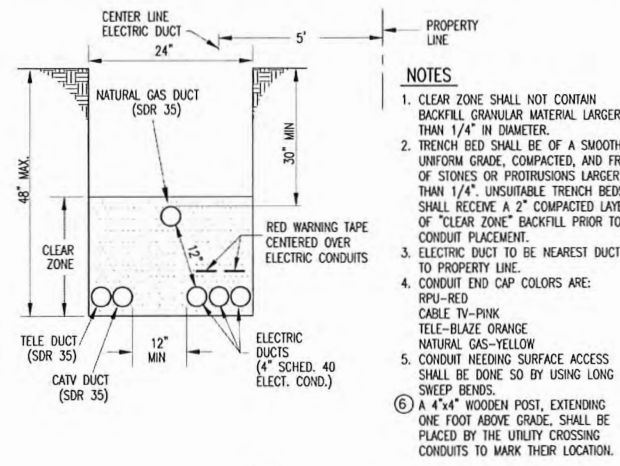
NUMBER OF 3/4" RODS REQUIRED

PIPE SIZE INCHES	12" AND LESS	14" AND 16"	18" AND 20"	24"
NUMBER OF RODS	2	4	6	8

MINIMUM DISTANCE TO CLOSEST UNRESTRAINED JOINT (L IN FEET)

TYPE OF FITTING	PIPE SIZE							
	6"	8"	10"	12"	14"	16"	18"	20"
11 1/4" BEND	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
22 1/2" BEND	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
45" BEND	18.0	18.0	18.0	18.0	19.0	21.4	23.8	26.0
90" BEND	19.6	19.6	24.0	28.2	32.4	36.6	40.8	44.8
TEE	18.0	18.0	18.0	18.0	20.0	25.0	36.0	40.0
PLUG	18.0	18.0	18.0	18.0	20.0	25.0	36.0	40.0

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
RESTRAINED JOINT DETAIL
Diran S. Dehdil
CITY ENGINEER
DATE REVISED: 12/1/11 PLATE NO. 6-05 REV. D
SHT 1 OF 1 SHTS



- NOTES**
- CLEAR ZONE SHALL NOT CONTAIN BACKFILL GRANULAR MATERIAL LARGER THAN 1/4" IN DIAMETER.
 - TRENCH BED SHALL BE OF A SMOOTH, UNIFORM GRADE, COMPACTED, AND FREE OF STONES OR PROTRUSIONS LARGER THAN 1/4". UNSUITABLE TRENCH BEDS SHALL RECEIVE A 2" COMPACTED LAYER OF "CLEAR ZONE" BACKFILL PRIOR TO CONDUIT PLACEMENT.
 - ELECTRIC DUCT TO BE NEAREST DUCT TO PROPERTY LINE.
 - CONDUIT END CAP COLORS ARE:
R1Y-RED
CABLE TV-PINK
TELE-BLAZE ORANGE
NATURAL GAS-YELLOW
 - CONDUIT NEEDING SURFACE ACCESS SHALL BE DONE SO BY USING LONG SWEEP BENDS.
 - A 4"x4" WOODEN POST, EXTENDING ONE FOOT ABOVE GRADE, SHALL BE PLACED BY THE UTILITY CROSSING CONDUITS TO MARK THEIR LOCATION.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
STREET CROSSINGS FOR UTILITY CONDUITS
Diran S. Dehdil
CITY ENGINEER
DATE REVISED: 4/15/20 PLATE NO. 4-03 REV. C
SHT 1 OF 1 SHTS

STRUCTURE NAME:	DETAILS:	STRUCTURE NAME:	DETAILS:
APRON 1	RIM = 1189.43 INV IN = 1187.91(15')	MH S-4	TYPE 4(48) RIM = 1199.00 INV IN = 1193.01(15') INV OUT = 1192.91(15')
CB No. 1	TYPE 1 RIM = 1208.77 INV OUT = 1203.68(15')	MH S-5	TYPE 4(48) RIM = 1196.20 INV IN = 1190.56(15') INV OUT = 1190.44(15')
CB No. 2	TYPE 1 RIM = 1209.41 INV OUT = 1204.00(15')	MH S-6	TYPE 4(48) RIM = 1194.97 INV IN = 1189.68(15') INV IN = 1189.68(15') INV OUT = 1189.58(15')
CB No. 3	TYPE 1 RIM = 1194.59 INV OUT = 1192.54(15')	MH S-7	TYPE 4(48) RIM = 1195.42 INV IN = 1190.40(15') INV OUT = 1190.30(15')
CB No. 4	TYPE 1 RIM = 1194.59 INV IN = 1189.12(15') INV OUT = 1189.02(15')	MH S-8	TYPE 4(48) RIM = 1198.94 INV IN = 1194.02(15') INV IN = 1193.92(12') INV OUT = 1193.92(12')
CB No. 5	TYPE 1 RIM = 1198.61 INV OUT = -0.50(12')	MH S-9	TYPE 4(48) RIM = 1201.12 INV IN = 1196.23(15') INV OUT = 1196.13(15')
CB No. 6	TYPE 1 RIM = 1198.61 INV OUT = -0.50(12')	MH S-10	TYPE 4(48) RIM = 1202.99 INV IN = 1198.00(15') INV OUT = 1197.90(15')
CB No. 7	TYPE 1 RIM = 1214.31 INV OUT = -0.62(15')	MH S-11	TYPE 4(48) RIM = 1206.90 INV IN = 1201.75(15') INV OUT = 1201.65(15')
CB No. 8	TYPE 1 RIM = 1214.31 INV OUT = -0.62(15')	MH S-12	TYPE 4(48) RIM = 1214.63 INV IN = 1214.00(15') INV IN = 1214.00(15') INV OUT = 1209.75(15')
MH S-1	TYPE 4(48) RIM = 1208.67 INV IN = 1203.20(15') INV OUT = 1203.10(15')		
MH S-2	TYPE 4(48) RIM = 1205.50 INV IN = 1199.74(15') INV OUT = 1199.64(15')		
MH S-3	TYPE 4(48) RIM = 1203.09 INV IN = 1197.12(15') INV OUT = 1197.02(15')		

SCALE: AS SHOWN
DATE: 8/19/2022
DRAWN BY: TAC
JOB NUMBER: 23-3-213764
DWG. FILE: 23-3-213764 GP01.dwg
Sheet 12 of 14

STORM WATER POLLUTION PREVENTION PLAN

GENERAL PROJECT INFORMATION:

PROJECT LOCATION: PID: 130210401

PROJECT SITE NAME: AREA 15
 PROJECT NUMBERS: 023 213764
 PROJECT LOCATION: STREET: COUNTY RD 15 CITY: N/A TOWNSHIP: MANTORVILLE TOWNSHIP COUNTY: DODGE
 COUNTY STATE: MN ZIP: 55955
 LATITUDE/LONGITUDE: 44.058321, -92.745083

PROJECT NARRATIVE:

THIS PROJECT INCLUDES GENERAL SITE GRADING, INSTALLATION OF UTILITIES, AND CONSTRUCTION OF PUBLIC ROADWAY TO SERVE AREA 15 IN MANTORVILLE TOWNSHIP, MINNESOTA. THE SITE IS PLANNED TO BE GRADED AND UTILITIES INSTALLED CONCURRENTLY.

RESPONSIBLE PARTIES:

CONTRACTOR AND OWNER ARE REQUIRED TO APPLY FOR AND RECEIVE A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER CONSTRUCTION PERMIT FROM THE MPCA AT LEAST 7 DAYS PRIOR TO BEGINNING WORK.

CONTRACTOR AND OWNER SHALL IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs WHO WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP.

COMPANY: NAME: PHONE:

COMPANY: NAME: PHONE:

OWNER SHALL IDENTIFY THE ENTITY RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE STORM WATER MANAGEMENT SYSTEM.

COMPANY: NAME: PHONE:

THIS SWPPP WAS PREPARED BY INDIVIDUALS THAT HAVE BEEN PROPERLY TRAINED IN ACCORDANCE TO PART III.F OF THE NPDES PERMIT. CERTIFICATION CARDS ARE AVAILABLE UPON REQUEST.

SWPPP DEVELOPER: WSE ENGINEER SERVICES (JOE TENLEY)
 WSE ENGINEERING SERVICES (LES CONWAY)
 1712 RESTORATION RD SW
 ROCHESTER, MN 55902
 507-259-6573 / JOE@WSE.ENGINEERING

WATER RESOURCE ENGINEER:
 WSE ENGINEERING SERVICES (LES CONWAY)
 320 W. BROADWAY, SUITE 3
 PLAINVIEW, MN 55964
 507-273-8445 / LES@WSE.ENGINEERING

APPLICABLE FEDERAL, TRIBAL, STATE OR LOCAL PROGRAMS: THE MORE STRINGENT OF LOCAL VS. STATE VS. FEDERAL RULES SHALL APPLY WHERE THEY CONFLICT. THE OPERATOR IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE PERMITS, MNDOT SPECIAL PROVISIONS, MNDOT SPEC BOOK (2018 EDITION) AND MNDOT SPECIFICATIONS. 1717.

CONTACTS

AGENCY	PERMIT	NAME	PHONE NUMBER/E-MAIL
MPCA (EMERGENCY)	N/A	STATE DUTY OFFICER	1-800-422-0798
MPCA	N/A	DAVID BODOVINITZ	507-206-2654
USACE (SECTION 404)	N/A	DAVE STUDENSKI	857-290-5802/DAVID.A.STUDENSKI@USACE.ARMY.MIL
DNR (PUBLIC WATERS)	N/A	TAYLOR HUNKER	651-345-5601/TAYLOR.HUNKER@STATE.MN.US
OLMSTED COUNTY (WCA)	N/A	DON VANKEULEN	507-328-7116/VANKEULEN.DON@CO.OLMSTED.MN.US
DNR (PUBLIC WATERS)	N/A	NICOLE LEHMAN	507-206-2854/NICOLE.LEHMAN@STATE.MN.US

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE ESTIMATED CONSTRUCTION SCHEDULE TO THE ENGINEER)	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:
CONSTRUCTION ACTIVITIES:	
INSTALL TEMPORARY SEDIMENT CONTROL BMPs	AUGUST 2022
TREE CLEARING (NO GROUND DISTURBANCE)	AUGUST 2022
GRADING & UTILITY WORK	AUGUST 2022 - OCT 2022
FINAL STABILIZATION/LANDSCAPING	OCT 2022

PROJECT ORGANIZATION CONTACTS	NAME	PHONE NUMBER
CONTRACTOR'S EROSION AND SEDIMENT CONTROL SUPERVISOR		
CONTRACTOR'S EROSION AND SEDIMENT CONTROL INSTALLER		

TEMPORARY STORMWATER MANAGEMENT SYSTEM:

THE PERMANENT STORM WATER POND IS TO BE USED AS THE TEMPORARY BASIN DURING CONSTRUCTION BECAUSE THE ACREAGE OF DISTURBED SOIL DRAINING TO A COMMON DISCHARGE IS MORE THAN FIVE (5) ACRES PER SECTION 23.1 OF THE NPDES PERMIT.

LONG TERM MAINTENANCE:

THE STORM WATER MANAGEMENT SYSTEM IS OWNED BY THE CITY.

STABILIZATION TIME FRAMES:

AREA	TIME FRAME	NOTES
EXPOSED AREAS	IMMEDIATELY AND NO LATER THAN 7 DAYS OF BEING UNWORKED	1, 4, 5
LAST 200 LINEAL FEET OF DRAINAGE DITCH/SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER/PROPERTY EDGE	1, 2, 3
REMAINING PORTION OF DRAINAGE DITCH OR SWALE	7 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
STOCKPILES	7 DAYS	1

- INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICATION CLAY OR SILT AND STOCKPILES AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
- STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
- APPLICATION OF MULCH OR HYDROMULCH ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
- STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE MULCHES OR BLANKETED WITH THE TIME FRAMES IN THE NPDES PERMIT.
- KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES, AND BLANKETS.

OTHER PROJECT INFORMATION:

QUANTITY TABULATION EROSION PREVENTION / SEDIMENT CONTROL BMPs		
ITEM	UNIT	QUANTITY
SILT FENCE	LF	X,XXX
INLET PROTECTION	EA	X
SEEDING (SEED MIX No. 25-151)	AC	XXX
EROSION CONTROL BLANKET (SEED MIX No. 25-131)	SY	X
ROCK CONSTRUCTION ENTRANCE	EA	1
DITCH CHECKS	EA	X

LOCATION OF SWPPP COMPONENTS		
DESCRIPTION	TITLE	LOCATION
SWPPP NARRATIVE	SWPPP	SHEET 7-8
SITE MAP	SWPPP	SHEET 7-8
CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED	GRADING & EROSION CONTROL PLAN	SHEET 4-6
DIRECTION OF FLOW (PRE-/POST-CONSTRUCTION)	DRAINAGE PLAN	DRAINAGE REPORT
IMPERVIOUS SURFACES	GRADING & EROSION CONTROL PLAN	SHEETS 4-6
TEMPORARY EROSION & SEDIMENT CONTROL	GRADING & EROSION CONTROL PLAN	SHEETS 4-6
BMPs/SLOPES (3:1)	GRADING & EROSION CONTROL PLAN	SHEETS 4-6
PERMANENT EROSION CONTROL BMPs	GRADING & EROSION CONTROL PLAN	SHEETS 4-6
DRAINAGE AREAS	DRAINAGE PLAN	DRAINAGE REPORT
STORM SEWER	GRADING & EROSION CONTROL PLAN	SHEETS 4-6
GRADING	GRADING & EROSION CONTROL PLAN	SHEETS 4-6
BMP DETAILS/SPECIFICATIONS	SWPPP	SHEET 4,5,6,7, and 8

EXISTING SITE CONDITIONS, M SOILS, & WATER RESOURCES:

SOILS AND NATIVE TOPSOIL: NATIVE TOPSOIL MAY BE STRIPPED AND STOCKPILED FOR FINAL GRADING OPERATIONS, WHERE INDICATED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. METHODS AND EQUIPMENT TO MINIMIZE SOIL COMPACTION (IN PROPOSED INFILTRATION AREAS, DRIP LINE OF TREES TO BE PRESERVED, ETC.) SHALL BE DETERMINED BY THE OPERATOR'S SWPPP AMENDMENT. TRACKED VEHICLES ARE PREFERRED AND WHEELED VEHICLES ARE DISCOURAGED IN THESE AREAS.

NRCS SOIL MAP AND SOIL SURVEY INCLUDED IN SECOND PAGE OF SWPPP.

DESCRIPTION OF RECEIVING WATERS (LOCATED WITHIN 1-MILE):

RECEIVING WATERS: SURFACE WATERS WHICH WILL RECEIVE STORM WATER FOR THE SITE WITHIN 1 MILE OF PROJECT BOUNDARY ARE LISTED.

NAME OF WATER BODY	TYPE (DITCH, POND, WETLAND, LAKE, ETC)	SPECIAL OR IMPAIRED WATER?
SOUTH BRANCH MIDDLE FORK ZUMBRO RIVER	RIVER	IMPAIRED

DESCRIPTION OF IMPAIRED WATERS OR WATER SUBJECT TMDLS: A SPECIAL AND IMPAIRED WATERS SEARCH WAS COMPLETED USING THE MPCA SEARCH ENGINE (<https://mcpa.maps.arcgis.com/apps/webappviewer/index.html?id=f0c5a12d2fd4b16bc95bb53509ae82>) ON 8/08/2022. BASED ON THIS REVIEW, THERE IS ONE IMPAIRED WATER WITHIN A MILE OF THE PROJECT LISTED ABOVE.

CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED:

CONSTRUCTION OF THE SITE SHALL OCCUR IN ONE PHASE. THE OWNER SHALL COORDINATE ALL DISTURBING ACTIVITIES TO MINIMIZE THE SIZE OF EXPOSED AREAS AND DURATION OF EXPOSURE. SPECIFIC CONSTRUCTION SEQUENCING IS REQUIRED FOR THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS AS NOTED WITHIN THE SWPPP AND PLANSHEETS. MASS GRADING OF THE SITE SHALL BE AVOIDED. THE OWNER AND OPERATOR SHALL ADHERE TO THE STABILIZATION TIMEFRAMES BELOW.

BUFFERS:

A SURFACE WATER IS NOT LOCATED WITHIN 50' OF THE PROJECT'S EARTH WORK DISTURBANCE LIMIT.

AREAS NOT TO BE DISTURBED:

ALL AREAS OUTSIDE OF THE GRADING LIMITS ON THE GRADING & EROSION CONTROL PLAN WILL NOT BE DISTURBED.

ENVIRONMENTALLY SENSITIVE AREAS

STEEP SLOPES: EROSION BLANKET CATEGORY 10 SHALL BE PLACED ON ALL PROPOSED SLOPES GREATER THAN 3:1.

DRINKING WATER/WELLS: ACCORDING TO THE MDH, THE PROJECT HAS NO DRINKING WATER/WELLS WITHIN 200' OF PROJECT.

CONTAMINATED PROPERTIES:

THE MPCA'S "WHAT'S IN MY NEIGHBORHOOD" DATABASE (<https://mcpa.maps.arcgis.com/apps/webappviewer/index.html?id=544783c7584a05ba019726533397>) WAS REVIEWED ON 8/8/2022. THE RESULTS OF THIS REVIEW SHOWED 2 KNOWN CONTAMINATED PROPERTIES OR LEAK SOURCES LOCATED WITHIN AND ADJACENT TO THE PROJECT LIMITS.

CONTAMINATED SOILS: IF CONTAMINANT SOILS ARE DISCOVERED DURING GRADING OPERATIONS, THE CONTRACTOR MUST IMMEDIATELY SUSPEND WORK AND NOTIFY THE ENGINEER AND OWNER.

STORMWATER POLLUTION MITIGATION MEASURES (AS IDENTIFIED FROM ENVIRONMENTAL REVIEW): NO FORMAL ENVIRONMENTAL REVIEW WAS REQUIRED FOR THIS PROJECT; THEREFORE, NO ADDITIONAL STORMWATER-RELATED MITIGATION MEASURES APPLY.

KARST AREAS: THE SITE IS WITHIN A KARST AREA. HOWEVER, NO KARST FEATURES SUCH AS SINKHOLES OR SPRINGS HAVE BEEN IDENTIFIED. IF A SINKHOLE IS ENCOUNTERED THE CONTRACTOR WILL SUSPEND WORK AND COORDINATE WITH A GEOLOGIST OR GEOTECHNICAL ENGINEER.

FISH EXCLUSION DATES: PROJECT ACTIVITIES ARE NOT PROPOSED WITHIN ANY DNR WATERBODIES. FISH EXCLUSION DATES DO NOT APPLY TO THIS PROJECT.

AQUATIC INVASIVE SPECIES: ALL IN-STREAM AND DEWATERING EQUIPMENT SHALL BE DECONTAMINATED OF ALL AQUATIC PLANTS AND PROHIBITED INVASIVE SPECIES PRIOR TO USING WITHIN SURFACE WATERS ON-SITE AND TRANSPORTING OFF-SITE. ALL DECONTAMINATION ACTIVITIES SHALL MEET THE CHAPTER STANDARDS OF THE MINNESOTA DNR'S BEST PRACTICES MANUAL FOR MEETING DNR GENERAL PUBLIC WATERS WORK PERMIT GP 2004-0001.

WETLANDS: THERE ARE NO WETLAND IMPACTS PROPOSED WITH THIS PROJECT.

INSPECTION, SWPPP AMENDMENTS, RECORD KEEPING, & TRAINING:

- THE SWPPP CHAIN OF RESPONSIBILITY MUST BE AMENDED BY THE OPERATOR WHEN THE IDENTITY OF RESPONSIBLE SITE OPERATORS (EROSION CONTROL SUPERVISOR, SUB-CONTRACTORS, ETC.) ARE KNOWN.
- THE OPERATOR MUST 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 0.5 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE, WITH ONE MILE OF THE SITE, OR SOURCE OF THE WEATHER REPORTING SYSTEM THAT USES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES. THE LOCATION AND SOURCE OF THE RAINFALL GAUGE OR REPORTING SYSTEM MUST BE DOCUMENTED IN THE FIRST SWPPP INSPECTION REPORT. THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE PER MONTH, IF SITE CONDITIONS MEET PART 11.1.B OF THE NPDES/SDS PROGRAM MNR100001. ALL INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BE TO OPERATOR AND RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTIONS AND MAINTENANCE ACTIVITY SHALL INCLUDE:
 - DATE, TIME, AND NAME OF PERSON(S) CONDUCTING INSPECTIONS.
 - FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS.
 - CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES), INCLUDING DOCUMENTATION/PHOTOS, OF IMPLEMENTED BMPs INTENDED TO CORRECT A PROBLEM BUT FAILED.
 - DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS.
 - DOCUMENTATION OF CHANGES MADE TO THE SWPPP.

- SWPPP AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT OWNER (OR DESIGNATED REPRESENTATIVE). ALL OWNER ACCEPTED AND DENIED SWPPP AMENDMENTS AND SITE PLANS MUST BE RECORDED IN WRITING RETAINED WITH THE SWPPP.
- THE SWPPP SHALL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPs, DESIGNED TO CORRECT IDENTIFIED PROBLEMS OR ADDRESS SITUATIONS (UNDER PART 6.1-6.4 OF THE NPDES/SDS PROGRAM MNR100001). PRIOR TO CONDUCTION SPECIFIC STAGES/PHASES OF THE PROJECT, AS REQUIRED BY THE OWNER AND DEFINED IN THIS PROJECT SWPPP.
- THE SWPPP (ORIGINAL OR COPIES), ALL CHANGES TO THE SWPPP, PROJECT MANUAL, AND INSPECTIONS/MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE OPERATOR WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN THE FIELD OFFICE OR ON-SITE VEHICLE DURING NORMAL WORKING HOURS.
- THE OPERATOR MUST ASSIGN A TRAINED INDIVIDUAL(S) (PURSUANT TO PART 5.20-5.21 OF THE NPDES/SDS PROGRAM MNR100001) TO OVER SEE THE IMPLEMENTATION, MAINTENANCE, AND REPAIR OF BMPs. THIS INDIVIDUAL(S) SHALL ALSO PERFORM INSPECTIONS, REVISE/AMEND THE SWPPP (DOCUMENT IN SWPPP AS NECESSARY), AND BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE PERMITTED OWNER (OR ITS DESIGNEE), LOCAL GOVERNMENT UNITS, OR MPCA.

PERMIT TERMINATION:

- TERMINATION OF COVERAGE WHEN CONSTRUCTION IS COMPLETE: ALL PERMITEE(S) MUST SUBMIT A NOTICE OF TERMINATION TO THE MPCA ON A FORM PROVIDED BY THE COMMISSIONER WITHIN 30 DAYS AFTER ALL ACTIVITIES REQUIRED FOR FINAL STABILIZATION ARE COMPLETE. THE PERMITEE(S)' COVERAGE UNDER THIS PERMIT TERMINATES AT MIDNIGHT ON THE SUBMISSION DATE.
- TERMINATION OF COVERAGE WHEN TRANSFER OF OWNERSHIP OCCURS: ALL PERMITEE(S) MUST SUBMIT A NOT ON A FORM PROVIDED BY THE COMMISSIONER WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, INCLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE FINAL CLEAN OUT, OR TRANSFERRING PORTIONS OF A SITE TO ANOTHER PARTY. THE PERMITEE(S)' COVERAGE UNDER THIS PERMIT TERMINATE AT MIDNIGHT ON THE SUBMISSION DATE OF THE NOT.
- PERMITEE(S) MAY TERMINATE PERMIT COVERAGE PRIOR TO COMPLETION OF ALL CONSTRUCTION ACTIVITY IF ALL OF THE FOLLOWING CONDITIONS ARE MET. AFTER THE PERMIT IS TERMINATED UNDER THIS PART, IF THERE IS ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WAS NOT COMPLETE, NEW PERMIT COVERAGE MUST BE OBTAINED IF THE SUBSEQUENT DEVELOPMENT ITSELF OF AS PART OF THE REMAINING COMMON PLAN OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OF MORE ACRES IN SIZE.
 - CONSTRUCTION ACTIVITY HAS CEASED FOR AT LEAST 90 DAYS.
 - AT LEAST 90 PERCENT (BY AREA) OF ALL ORIGINALLY PROPOSED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED AND PERMANENT COVER ESTABLISHED IN THOSE AREAS.
 - ON AREAS WHERE CONSTRUCTION ACTIVITY IS NOT COMPLETE PERMANENT COVER HAS BEEN ESTABLISHED.
 - THE SITE IS IN COMPLIANCE WITH PART IV.G.2 AND PART IV.G.3. AND WHERE APPLICABLE, PART IV.G.4. OR PART IV.G.5. OF THE GENERAL PERMIT.
- PERMITEE(S) MAY TERMINATE COVERAGE UPON APPROVAL BY THE MPCA IF INFORMATION IS SUBMITTED TO THE MPCA DOCUMENTING THAT TERMINATION IS APPROPRIATE BECAUSE THE PROJECT IS CANCELED.

SWPPP AMENDMENTS:

THE PERMITEE(S) MUST AMEND THE SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, SUCH AS ADDITIONAL OR MODIFIED BMPs THAT ARE DESIGNED TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER:

- THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OF UNDERGROUND WATERS.
- INSPECTIONS OR INVESTIGATIONS BY SITE OWNER OF OPERATORS, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR UNDERGROUND WATERS OR THAT THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDING (E.G., NUISANCE CONDITIONS AS DEFINED IN MINN. R. 7050.0210, SUBP. 2).
- THE SWPPP IS NOT ACHIEVING THE GENERAL OBJECTIVES OF MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY, OF THE SWPPP IS NOT CONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.
- AT ANY TIME AFTER PERMIT COVERAGE IS EFFECTIVE, THE MPCA MAY DETERMINE THAT THE PROJECTS STORMWATER DISCHARGES MY CAUSE, HAVE REASONABLE POTENTIAL TO CAUSE, OR CONTRIBUTE TO NON-ATTAINMENT OF ANY APPLICABLE WATER QUALITY STANDARD, OR THAT THE SWPPP DOES NOT INCORPORATE THE APPLICABLE REQUIREMENTS IN PART III.A.8., (IMPAIRED WATERS AND TMDLS). IF A WATER QUALITY STANDARD CHANGES DURING THE TERM OF THIS PERMIT, THE MPCA WILL MAKE A DETERMINATION AS TO WHETHER A MODIFICATION OF THE SWPPP IS NECESSARY TO ADDRESS THE NEW STANDARD. IF THE MPCA MAKES SUCH DETERMINATION(S) OF ANY OF THE DETERMINATIONS IN PARTS III.B.1.-3., THE MPCA WILL NOTIFY THE PERMITEE(S) IN WRITING. IN RESPONSE, THE PERMITEE(S) MUST AMEND THE SWPPP TO ADDRESS THE IDENTIFIED CONCERNS AND SUBMIT INFORMATION REQUESTED BY THE MPCA, WHICH MAY INCLUDE AN INDIVIDUAL PERMIT APPLICATION. IF THE MPCA'S WRITTEN NOTIFICATION REQUIRES A RESPONSE, FAILURE TO RESPOND WITHIN THE SPECIFIED TIMEFRAME CONSTITUTES A PERMIT VIOLATION.

TEMPORARY EROSION AND SEDIMENT CONTROL BMP MAINTENANCE:

SILT FENCE: SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF SILT FENCING. ANY SILT FENCING WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE CORRECTED IMMEDIATELY.

ROCK CONSTRUCTION ENTRANCE:

THE STRUCTURE'S THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE.

DITCH CHECKS:

SEDIMENT MUST BE REMOVED FROM ROCK FILTER OUTLETS WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. SHALL BE MAINTAINED UNTIL THE TRIBUTARY AREAS HAVE ESTABLISHED GROUND COVER.

INLET PROTECTION FILTER BAG INSERT:

REMOVE THE FILTER BAG AND DISPOSE OF SEDIMENT WHEN ACCUMULATIONS REACH 1/2 OF THE STORAGE OF THE BAG.

DISPOSAL OF REMOVED SEDIMENT:

SHALL BE PLACED AWAY FROM THE BMP THAT IS BEING MAINTAINED, AND HAS NO CHANCE OF WASHING RIGHT BACK TO IT WITH THE NEXT RAIN. IF SPREAD OVER A SLOPE, IT MUST BE (AT LEAST TEMPORARILY) STABILIZED. IF PILED WITHIN 200 FEET OF A WATER OF THE STATE, IT MUST BE ENCLOSED AND/OR STABILIZED TO PREVENT DISCHARGE INTO THE WATER OF THE STATE.

DISPOSAL OF REMOVED MATERIAL:

TRASH AND DEBRIS REMOVED FROM THE SITE SHOULD BE DEPOSITED ONLY AT SUITABLE DISPOSAL/RECYCLING SITES AND MUST COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL WASTE REGULATIONS.

CONSTRUCTION ACTIVITY NOTES:

CONSTRUCTION SEQUENCE:

- INSTALL EROSION CONTROL MEASURES
- INSTALL SANITARY AND WATERMAIN
- INSTALL SANITARY & WATER SERVICES
- INSTALL PAVEMENTS/CURBS/GUTTER
- INSTALL PERMANENT EROSION CONTROL AND SEED MIXTURES/EROSION CONTROL BLANKET
- FLUSH STORM SEWER IF APPLICABLE
- REMOVE TEMPORARY EROSION CONTROL MEASURES ONLY AFTER ALL PAVEMENTS HAVE BEEN INSTALLED AND ALL SOILS HAVE BEEN STABILIZED.
- PROPERTY OWNERS ARE RESPONSIBLE LONG TERM AND/OR ON-GOING BMPs FOR EACH PROPERTY/LOT

SPECIFIC REQUIREMENTS INCLUDING INSPECTION AND MAINTENANCE:

THE CONTRACTOR MUST IDENTIFY AN EROSION CONTROL SUPERVISOR (ECS) WHO IS KNOWLEDGEABLE AND EXPERIENCE IN THE APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs). THE ECS MUST WORK WITH THE PROJECT ENGINEER TO OVERSEE AND IMPLEMENT THE SWPPP AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR/ECS IS REQUIRED TO COMPLY WITH THE TRAINING REQUIREMENTS IN PART 21.1-21.3 OF THE NPDES/SDS PROGRAM MNR100001.

THE CONTRACTOR/ECS SHALL DEVELOP A CHAIN OF RESPONSIBILITY WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE PROJECT SITE HAS UNDERGONE FINAL STABILIZATION IN ACCORDANCE WITH PART 13.1 OF THE NPDES PERMIT AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA IN ACCORDANCE WITH PART 4.1 OF THE NPDES PERMIT.



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 ROCHESTER, MN 55902

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.

Les Conway
 Les Conway

23292 8/19/2022
 Number Date

REV.	DATE	DESCRIPTION

SWPPP AREA 15 DODGE COUNTY, MINNESOTA

SCALE: AS SHOWN
 DATE: 8/19/2022
 DRAWN BY: TAC
 JOB NUMBER: 023-213764
 DWG. FILE: 23-213764 SWPPP01.dwg

23.3-213764 SWPPP01.dwg

SPECIFIC REQUIREMENTS: (CONTINUED)

THE CONTRACTOR/VECS MUST ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCH IN 24 HOURS. THE CONTRACTOR SHALL TAKE ACTION TO ELIMINATE ANY DEFICIENCIES FOUND DURING THESE INSPECTIONS AND CONTACT THE MPCA IF CONTAMINATED STORMWATER HAS REACHED ANY SURFACE WATER. THE CONTRACTOR MUST PROVIDE 2 RAIN GAUGES TO BE INSTALLED ON THE CONSTRUCTION SITE. INSPECTIONS, MAINTENANCE AND DOCUMENTATION MUST BE IN ACCORDANCE WITH THE NPDES PERMIT PART IV.E. SEE PART III.D OF THE NPDES PERMIT FOR RECORD RETENTION REQUIREMENTS. COPIES OF THE INSPECTION RECORDS ARE TO BE SUBMITTED TO THE ENGINEER. DRAINAGE CALCULATIONS ARE RETAINED IN THE PROJECT DESIGN FILE.

THE CONTRACTOR/VECS OR PROJECT ENGINEER MUST AMEND THE SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, SUCH AS ADDITIONAL OR MODIFIED BMPs, DESIGNED TO CORRECT PROBLEMS OR ADDRESS SITUATIONS IN ACCORDANCE WITH PART 6.1-6.4 OF THE NPDES/SDS PROGRAM MNR100001.

SEDIMENT CONTROL PRACTICES:

THE CONTRACTOR/VECS IS RESPONSIBLE FOR THE SEDIMENT CONTROL PRACTICES CONTAINED IN PART 9.1 OF THE NPDES PERMIT. SEDIMENT CONTROL PRACTICES MUST BE INSTALLED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADE LAND DISTURBING ACTIVITIES BEGIN. THERE SHALL BE NO UNBROKEN SLOPE LENGTH GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER. THESE PRACTICES MUST REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED IN ACCORDANCE WITH PART 9.1 TO 9.8 OF THE NPDES PERMIT.

PERIMETER CONTROL BMPs SHALL BE INSTALLED ON ALL DOWN GRADIENT PERIMETERS AND UP GRADIENT OF ANY BUFFER AREA, PRIOR TO INITIATING UP GRADIENT LAND DISTURBANCE ACTIVITIES. UPLAND PERIMETER CONTROLS BMPs SHALL BE PLACED AS CLOSE AS POSSIBLE TO FOLLOW A SINGLE CONTOUR ELEVATION. ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR MAINTAINED WHEN THEY REMOVE NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 THE HEIGHT OF THE FENCE. ALL REPAIRS MUST BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS. FLOATING SILT CURTAIN SHALL BE INSTALLED AS CLOSE TO THE SHORELINE AS POSSIBLE FOR SHORELAND-IN-WATER SHORT-TERM CONSTRUCTION ACTIVITIES. AFTER THE SHORT-TERM ACTIVITY IS COMPLETE, AN UPLAND PERIMETER CONTROL MUST BE INSTALLED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.

SURFACE WATERS INCLUDING OFF-SITE AND DOWNSTREAM DRAINAGE DITCHES, CATCH BASINS, AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE REMOVAL AND STABILIZATION OF EXPOSED SOILS MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PERMITTEES ARE RESPONSIBLE FOR CONTRACTING ALL LOCAL, REGIONAL, STATE, AND FEDERAL AGENCIES AND RECEIVING AND APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.

IF THE DOWN GRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UP GRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPs MUST BE INSTALLED TO ELIMINATE THE OVERLOADING, AND THE SWPPP MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES.

ALL STORM DRAIN INLETS MUST BE PROTECTED BY APPROPRIATE BMPs DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION CAN BE REMOVED IF A SPECIFIC SAFETY CONCERN HAS BEEN IDENTIFIED AND THE PROCEDURE IN PART 9.6-9.8 OF THE NPDES/SDS PROGRAM MNR100001 IS FOLLOWED.

TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AND CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORM WATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUIT AND DITCHES UNLESS THERE IS A BYPASS FOR STORMWATER.

VEHICLE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE MUST BE MINIMIZED BY BMPs SUCH AS STONE OR WOOD CHIP PADS, CONCRETE OR STEEL WASH RACKS, OR EQUIVALENT SYSTEMS. STREET SWEEPING WITH COLLECTION MUST BE USED IF SUCH BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET (SEE PART 9.11-9.12 OF THE NPDES/SDS PROGRAM MNR10000).

DEWATERING RELATED TO THE CONSTRUCTION ACTIVITY MUST COMPLY WITH PART 10.1-10.5 OF THE NPDES/SDS PROGRAM MNR10000. DEWATERING DISCHARGE THAT MAY HAVE TURBID OR SEDIMENT LADEN DISCHARGE MUST BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE WHENEVER POSSIBLE, AND BMPs MUST BE IMPLEMENTED TO PREVENT WATER CONTAINING SEDIMENT OR OTHER POLLUTANTS FROM BEING DISCHARGED TO A WATER OF THE STATE. CONTRACTOR MAY CONSTRUCT TEMPORARY SEDIMENTATION BASINS IN ACCORDANCE WITH PART 14.1-14.10 OF THE NPDES/SDS PROGRAM MNR10000.

EROSION PREVENTION PRACTICES:

THE CONTRACTOR/VECS IS RESPONSIBLE FOR THE EROSION PREVENTION PRACTICES CONTAINED IN PART 8.1 OF THE NPDES PERMIT. THE CONTRACTOR/VECS MUST PLAN FOR AND IMPLEMENT APPROPRIATE CONSTRUCTION PHASING, VEGETATION BUFFER STRIPS, HORIZONTAL SLOPE GRADING AND OTHER CONSTRUCTION PRACTICES THAT MINIMIZE EROSION. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED (MARKED) ON THE DEVELOPMENT SITE BEFORE WORK BEGINS.

CONSTRUCTION OF SILT FENCE AND ALL OTHER EROSION CONTROL MEASURES SHALL BE COMPLETE BEFORE OTHER CONSTRUCTION ACTIVITY OCCURS.

USE PHASED CONSTRUCTION WHENEVER PRACTICAL AND ESTABLISH TURF AS SOON AS POSSIBLE TO MINIMIZE SEDIMENT TRANSPORT.

THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER RAIN EVENTS FOR DAMAGE TO EROSION CONTROL DEVICES OR DAMAGED OR INEFFECTIVE EROSION CONTROL DEVICES. IF DISCOVERED, THEY SHALL BE REPAIRED OR REPLACED. THE CONTRACTOR SHALL MAINTAIN INSPECTION RECORDS, WHICH INCLUDE DATE AND TIME OF INSPECTIONS, DATES OF RAINFALL EVENTS, RAINFALL AMOUNT, FINDINGS OF INSPECTIONS, CORRECTIVE ACTIONS TAKEN (INCLUDING DATES AND TIMES), AND DOCUMENTATION OF ANY CHANGES TO THE TEMPORARY OR PERMANENT EROSION CONTROL PLANS MADE DURING CONSTRUCTION.

ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED BUT IN NO CASE LATER THAN THE FOLLOWING:

TYPE OF SLOPE OR DISTURBANCE AREA	TIME AREA CAN REMAIN OPEN WITHOUT BEING ACTIVELY WORKED	
	NORMAL WATER	SPECIAL/IMPAIRED WATER
STEEPER THAN 3:1	14 DAYS	7 DAYS
10:1 TO 3:1	14 DAYS	7 DAYS
FLATTER THAN 10:1	14 DAYS	7 DAYS
DITCHES	14 DAYS	7 DAYS
PIPE ENDS	1 DAY	1 DAY
WITHIN 200 FEET OF SURFACE WATER	1 Day	1 Day

THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FORM THE DISCHARGE INTO A SURFACE WATER. STABILIZATION MUST BE COMPLETE WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER.

RAPID STABILIZATION METHOD #1: THIS METHOD SHALL CONSIST OF TYPE 1 MULCH (2 TON PER ACRE) WITH DISC ANCHORING BE SPREAD IN AREAS THAT HAVE BEEN UNWORKED FOR 14 DAYS. THIS METHOD SHALL BE USED ON SLOPES OF 3:1 AND LESS. OPERATOR MUST APPLY MULCH IN A UNIFORM PATTERN OVER THE DISTURBED SOILS TO ACHIEVE A MINIMUM OF 90% GROUND COVER.

RAPID STABILIZATION METHOD #2: THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREA WITHIN 200 FEET OF SURFACE WATERS, TO PREVENT OFF SITE SEDIMENTATION AND OR TO COMPLY WITH PERMIT REQUIREMENTS. INSTALL PER MNDOT SPECIFICATIONS 2575.3N.

RAPID STABILIZATION METHOD #3: THIS METHOD SHALL CONSIST OF CATEGORY 3 EROSION CONTROL BLANKET (NATURAL NET ONLY) IN COMBINATION WITH MNDOT SEE MIX 22-111 (2 LBS PER 100 SQ. YD.) AND TYPE 3 SLOW RELEASE FERTILIZER (8LBS PER 100 SQ. YD.) THIS IS AN ACCEPTABLE BMP FOR DISTURBED AREAS ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS. SURFACE WATERS, AND WITHIN THE LAST 200 FEET OR DITCH BOTTOMS.

EROSION PREVENTION PRACTICES:

SOD/SEED MIX: MNDOT SEED MIX AND/OR SOD WITH APPROPRIATE MNDOT FERTILIZER WILL BE USED AS PERMANENT COVER FOR ALL EXPOSED GROUND AREAS PER MANUFACTURERS SPECIFICATIONS. PERMANENT COVER SHALL HAVE 4" MINIMUM TOPSOIL, SEED MIX, AND DISK ANCHOR, OR 4" MINIMUM TOPSOIL AND SOD. REQUIRED ON ALL SLOPE LONGER THAN 200' OR GREATER THAN 5.0%.

EROSION CONTROL BLANKET: A MNDOT CLASSIFIED EROSION CONTROL BLANKET SHALL BE ADDED IN COMBINATION WITH SEED MIX/FERTILIZER TO ALL AREAS SLOPED AT 4:1 OR GREATER AND 4:1 SLOPES LONGER THAN 30', HIGH PRIORITY AREAS, AS WELL AS IN OR NEAR DITCH BOTTOMS TO ESTABLISH PERMANENT EROSION CONTROL.

TEMPORARY WINTER COVER:

AREAS OF EXPOSED SOILS THAT ARE NOT COMPLETED BEFORE THE WINTER WILL BE STABILIZED WITH TYPE #3 MULCH (CERTIFIED AS WEED FREE) ADJACENT TO WETLAND OR STORMWATER PONDS. ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITH TYPE #1 MULCH. ALL EXPOSED SOILS SHALL BE STABILIZED BEFORE CONSTRUCTION IS COMPLETED FOR THE SEASON.

NOTE

SEED SHALL BE MNDOT MIXTURE 25-131 AT A PLS RATE OF 220 LBS/ACRE AND SHALL BE PLACED IN ACCORDANCE WITH MNDOT 2575. SEED SHALL MEET MNDOT SPECIFICATION 3876. SEED SHALL BE APPLIED AT A RATE OF 100 LBS/ACRE. MULCH SHALL BE MNDOT TYPE 1 MULCH. MULCH SHALL BE APPLIED AT A RATE OF 2.0 TONS/ACRE. MULCH SHALL BE DISC ANCHORED. FERTILIZER SHALL BE APPLIED TO SEEDING AREAS AS INCIDENTAL TO SEEDING. FERTILIZER SHALL BE A 22-5-10 (%N-P-K) APPLIED AT A RATE OF 300 LBS/ACRE.

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION:

POTENTIAL SOURCES OF POLLUTANTS FROM CONSTRUCTION ACTIVITIES INCLUDE: SEDIMENT AND FUGITIVE DUST GENERATED FROM CLEARING AND GRUBBING, IMPORT/EXPORT OPERATIONS, REMOVAL/COMPACTION, MASS/FINE GRADING, EXCAVATIONS, TRENCHING, TOPSOIL STRIPING STOCKPILING, WET/DRY PAVEMENT REMOVALS/COMPACTION, MASS/FINE GRADING, EXCAVATIONS, TRENCHING, TOPSOIL STRIPING STOCKPILING, WET/DRY PAVEMENT CUTTING, STREET CONSTRUCTION, BASIC/ACIDIC PH LEVELS FROM CURB AND GUTTER, MANHOLE STRUCTURES, SIDEWALKS, DRIVEWAY APRONS, FOUNDATIONS, BRIDGE ABUTMENTS, WET/DRY PAVEMENT CUTTING, MASONRY WASH OUT/CLEANOUT, EXCESS NUTRIENTS FROM LANDSCAPING INSTALLATIONS, SOIL ADDITIVES, FERTILIZATION, MULCHING, HYDROCARBONS FROM STREET CONSTRUCTION, DEMOLITION/REMOVALS, WET/DRY PAVEMENT CUTTING.

OPERATOR WILL COMPLY WITH ALL OF THE POLLUTION PREVENTION AND MANAGEMENT MEASURES IDENTIFIED IN THE PART 12.1-12.8 OF THE NPDES/SDS PROGRAM MNR10000. IN ADDITION, THE OPERATOR WILL COMPLY WITH STATE RULE 7011.0150 ON DUST PREVENTION REQUIREMENTS. OPERATOR WILL SUBMIT A SPILL PREVENTION AND RESPONSE PLAN (SPRP) TO THE ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY. STORAGE AND DISPOSAL OF CONSTRUCTION AND HAZARDOUS WASTES MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

TEMPORARY/PERMANENT DRAINAGE DITCHES & SWALES: THE NORMAL WETTED PERIMETER (2-YEAR, 24-HOUR PRECIPITATION EVENT) OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH, CHANNEL, OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN THE LAST 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WITH 24 HOURS OF CONNECTION. THE REMAINING PORTIONS OF THE CHANNEL MUST BE STABILIZED WITHIN 14 DAYS. ALL STORMWATER CONVEYANCE CHANNELS MUST USE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES WITH AND ALONG THE LENGTH OF THE CHANNEL AND AT ANY OUTLETS. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A TEMPORARY SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM MULCH, HYDROMULCH, TACKIFIER, OR POLYACRYLAMIDE BELOW THE WETTED PERIMETER OF A DITCH, SWALE, OR OTHER SURFACE WATER CONVEYANCE ARE NOT ACCEPTABLE STABILIZATION.

STOCKPILES SHOULD BE CONSTRUCTED AWAY FROM SLOPES AND NATURAL DRAINAGE WAYS.

COLLECTED SOLID WASTE (SEDIMENT, ASPHALT AND CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS) AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS

NO CONSTRUCTION MATERIALS CAN BE BURIED ON SITE.

LICENSED SANITARY WASTE MANAGEMENT HANDLER MUST DISPOSE OF SANITARY WASTE.

CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER AND MUST BE PERFORMED IN ACCORDANCE WITH PART 12.9 OF THE NPDES/SDS PROGRAM MNR10000.

FERTILIZERS MUST BE STORED IN COVERED LOCATIONS.

RESTRICTED ACCESS TO CHEMICAL STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM.

ALL CHEMICALS MUST BE STORED IN LOCKED CONTAINERS WHEN NOT IN USE.

SPRAY GUNS MUST BE CLEANED ON REMOVABLE SURFACES SUCH AS TARPAULINS.

CONTRACTOR/EROSION CONTROL SUPERVISOR MUST MAKE A SPILL RESPONSE PLAN BEFORE THE APPLICATION OF ANY CHEMICAL THAT MAY BE HARMFUL TO THE ENVIRONMENT.

ALL SPILLS MUST BE REPORTED IMMEDIATELY. SPILL CLEANUP MATERIALS MUST BE AVAILABLE ON SITE. MATERIAL SHALL INCLUDE, BUT NOT LIMITED TO, BROOMS, MOPS, RAGS, GLOVES, ABSORBENT MATERIAL, SAND PLASTIC AND METAL CONTAINERS. SPILLS THAT REACH STORM WATER CONVEYANCE SYSTEMS CONNECTED TO A WATER OF THE STATE MUST BE IMMEDIATELY REPORTED TO THE MPCA STATE DUTY OFFICER.

CONTRACTOR MUST CONTROL WEEDS ON THE ENTIRE PROJECT SITE.

OIL, GASOLINE, PAINT AND ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE.

STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

VEHICLES MUST BE MONITORED FOR LEAKS AND PREVENTATIVE MAINTENANCE SCHEDULED.

SPILL KITS MUST BE AVAILABLE DURING EQUIPMENT FUELING AND MAINTENANCE OPERATIONS.

EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.

ASPHALT SUBSTANCES MUST BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

FORM RELEASE OIL MUST BE APPLIED OVER A PALLET COVERED WITH ABSORBENT MATERIAL TO COLLECT EXCESS FLUID. THE ABSORBENT MATERIAL SHALL BE REPLACED WHEN SATURATED.

DUST CONTROL: THE CONTRACTOR IS REMINDED TO READ AND UNDERSTAND THE FOLLOWING MINNESOTA RULE 7011.0150 AND THE FOLLOWING: NO PERSON MAY CAUSE OR PERMIT THE HANDLING, TRANSPORTING OR STORING OF ANY MATERIAL IN A MANNER WHICH ALLOWS OR MANY ALLOW CONTROLLABLE PARTICULATE MATTER TO BECOME AIRBORNE. EXCEPT AS OTHERWISE PROVIDED THE CONTRACTOR MAY NOT CAUSE NOR PERMIT THE CONSTRUCTION, REPAIR, DEMOLITION, OR USE OF UNPAVED OR UNTREATED AREAS WITHOUT FIRST PUTTING INTO EFFECT AN ONGOING PROGRAM USING THE BEST PRACTICAL METHODS TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE. DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.



WETLAND MAP
(NO SCALE)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
N574B	Douglas Spruce complex, 2 to 5 percent slope	24.4	59.6%
N574C2	Douglas Spruce complex, 6 to 12 percent slope, moderate stream	12.6	30.7%
N574B	Barnyard site (contaminated)	4.0	9.7%
Totals for Area of Interest		41.0	100.0%



SOILS MAP
(NO SCALE)

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ROCHESTER, MN 55902

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.

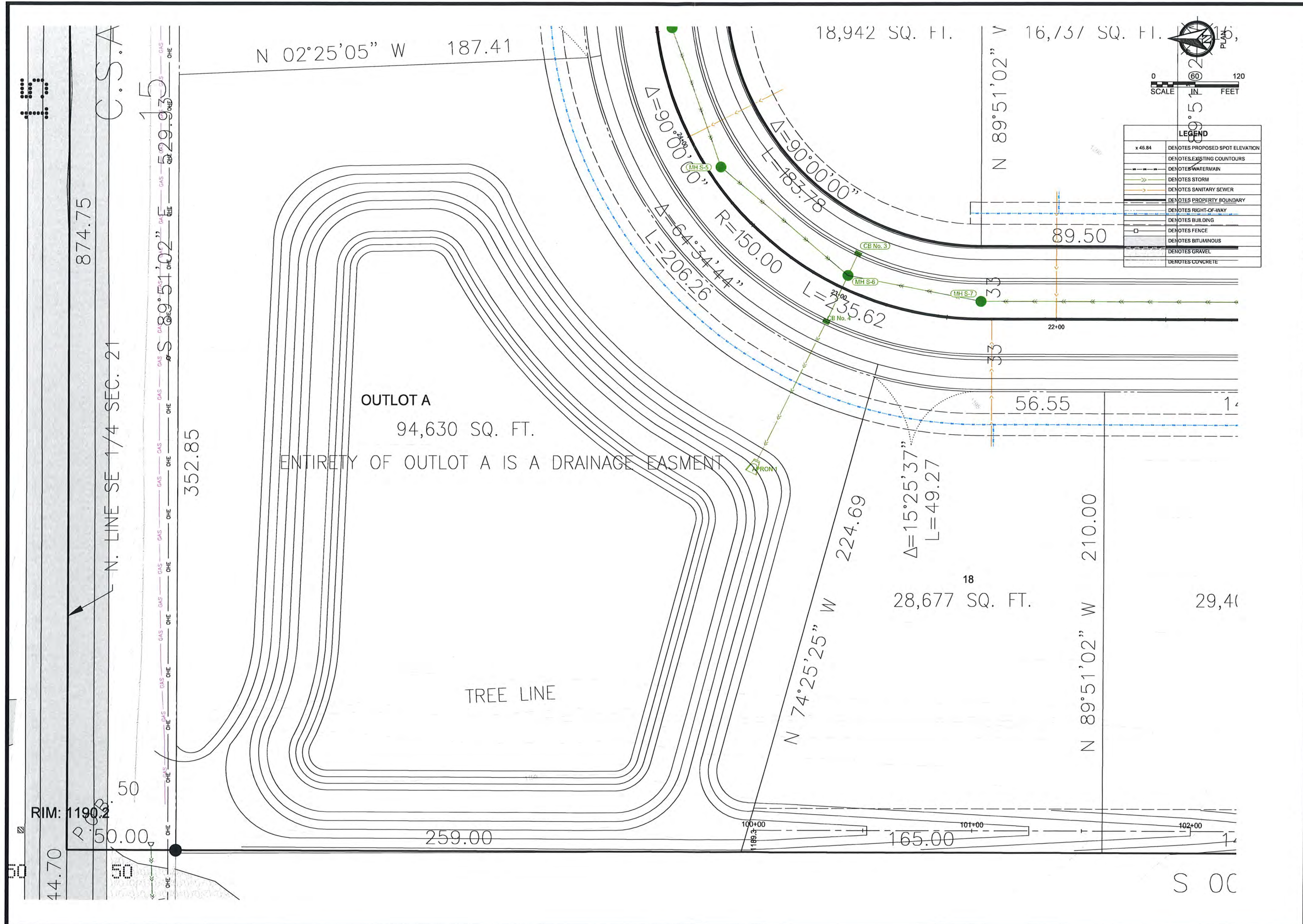
Les Conway
Les Conway
23292 8/19/2022
Number Date

REV	DATE	DESCRIPTION

SWPPP
AREA 15
DODGE COUNTY, MINNESOTA

SCALE: AS SHOWN
DATE: 8/19/2022
DRAWN BY: TAC
JOB NUMBER: 023.3-213764
DWG. FILE: 23.3-213764 SWPPP01.dwg

8/19/2022 12:54:04 PM



PLAN 15

SCALE 1" = 60' FEET

LEGEND	
x 46.84	DENOTES PROPOSED SPOT ELEVATION
---	DENOTES EXISTING COUNTOURS
---	DENOTES WATERMAIN
---	DENOTES STORM
---	DENOTES SANITARY SEWER
---	DENOTES PROPERTY BOUNDARY
---	DENOTES RIGHT-OF-WAY
---	DENOTES BUILDING
---	DENOTES FENCE
---	DENOTES BITUMINOUS
---	DENOTES GRAVEL
---	DENOTES CONCRETE

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ROCHESTER, MN 55902

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.

Les Conway
Les Conway
23292 8/19/2022
Number Date

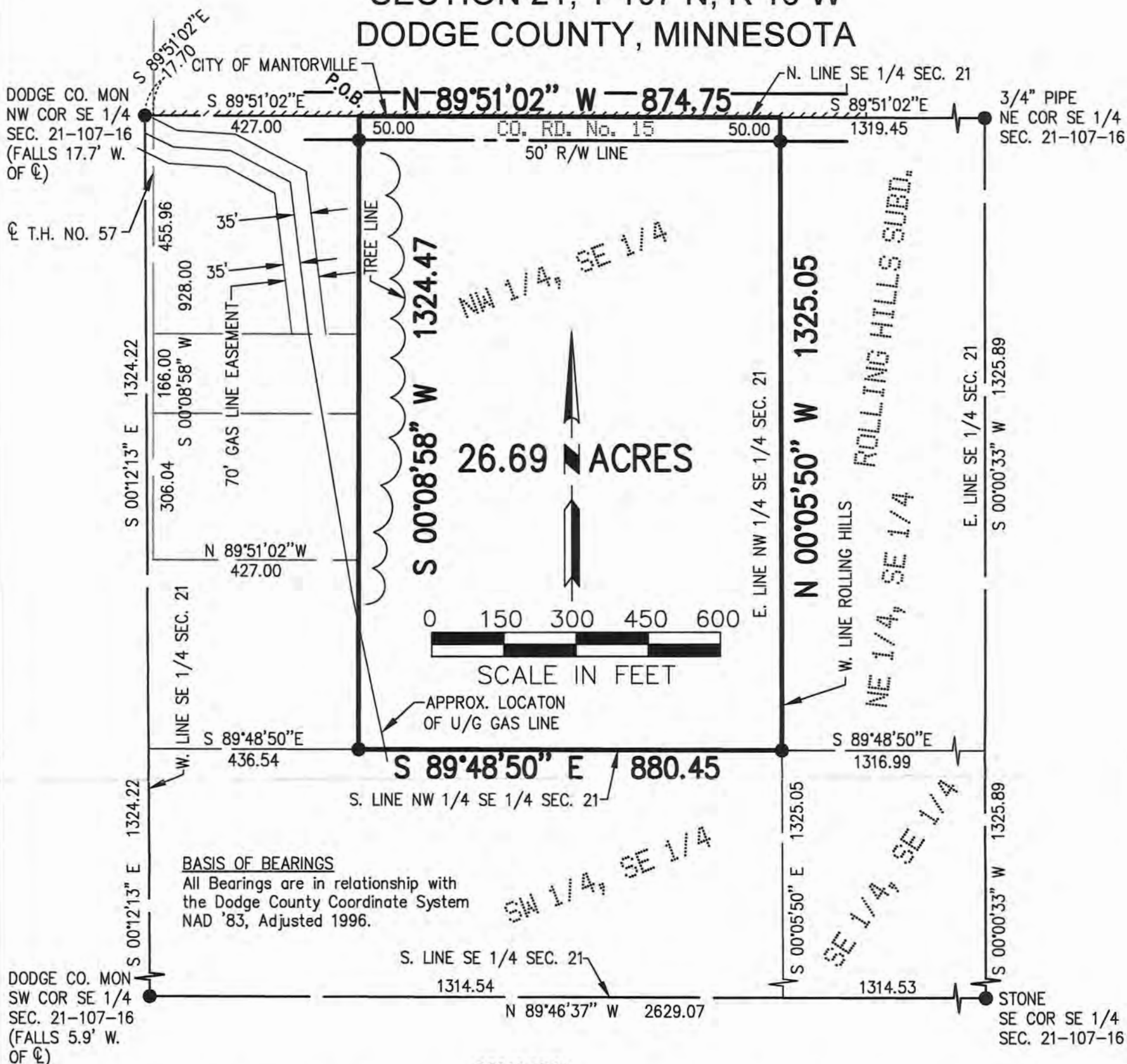
REV.	DATE	DESCRIPTION

POND DETAIL
AREA 15
DODGE COUNTY, MINNESOTA

SCALE: AS SHOWN
DATE: 8/19/2022
DRAWN BY: TAC
JOB NUMBER: 023.3-213764
DWG. FILE: 23.3-213764_GPD1.dwg

ANNEXATION EXHIBIT

PART OF THE NW 1/4 OF THE SE 1/4 SECTION 21, T 107 N, R 16 W DODGE COUNTY, MINNESOTA



BASIS OF BEARINGS
All Bearings are in relationship with the Dodge County Coordinate System NAD '83, Adjusted 1996.

DESCRIPTION

That part of the Northwest Quarter of the Southeast Quarter of Section 21, Township 107 North, Range 16 West, Dodge County, Minnesota, lying easterly of the following described line:

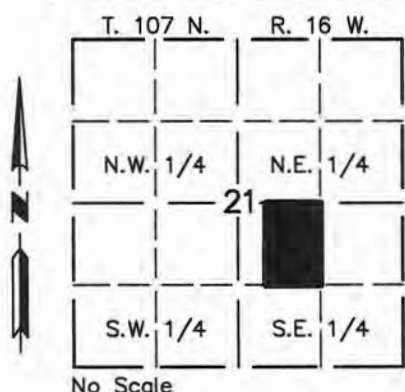
Commencing at the northwest corner of the Southeast Quarter of said Section 21; thence North 89 degrees 51 minutes 02 seconds East (NOTE: All bearings are in relationship with the Dodge County Coordinate System NAD '83, Adjusted 1996), 17.7 feet to the intersection of Trunk Highway No. 57 and County Aid Road V (now C.S.A.H. No. 15); thence running in an easterly direction North 89 degrees 51 minutes 02 seconds East, along the Centerline of said C.S.A.H. No. 15 (formerly County Aid Road V) and the north line of the Northwest Quarter of the Southeast Quarter of said Section 21 a distance of 427.00 feet to the POINT OF BEGINNING of said line; thence running southerly at an angle of 90 degrees to the last described line South 00 degrees 08 minutes 58 seconds West, 1324.47 feet to the south line of said Northwest Quarter of the Southeast Quarter and said line there terminating.

Containing 26.69 acres, more or less.

Subject to County Road No. 15 right of way over the north 50.00 feet thereof.

Subject to an easement for an underground natural gas line and is subject to any other easements or encumbrances of record.

PROPERTY LOCATION MAP



No Scale

WSE + MASSEY

ENGINEERING & LAND SURVEYING

P.O. BOX 100, KASSON, MN 55944
PH. NO. 507-634-4505, EMAIL SURVEY@WSE.ENGINEERING

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.

RWZ
Reinhold W. Zieman

Date 2/15/2022

LIC. NO.: 59823

THIS SURVEY AND DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF:

BIGELOW HOLMES, LLC
ROCHESTER, MN

MONUMENTS

- FOUND (5/8" PIPE UNLESS NOTED OTHERWISE)
- SET (5/8" PIPE UNLESS NOTED OTHERWISE)

DATE: 2/15/2022

DWG NO. 3764SX01 JOB NO. 3764

DRAWN BY: G.D.Z. SHEET 1 OF 1

Exhibit A

That part of the Northwest Quarter of the Southeast Quarter of Section 21, Township 107 North, Range 16 West, Dodge County, Minnesota, lying easterly of the following described line:

Commencing at the northwest corner of the Southeast Quarter of said Section 21; thence North 89 degrees 51 minutes 02 seconds East (NOTE: All bearings are in relationship with the Dodge County Coordinate System NAD '83, Adjusted 1996), 17.7 feet to the intersection of Trunk Highway No. 57 and County Aid Road V (now C.S.A.H. No. 15); thence running in an easterly direction North 89 degrees 51 minutes 02 seconds East, along the Centerline of said C.S.A.H. No. 15 (formerly County Aid Road V) and the north line of the Northwest Quarter of the Southeast Quarter of said Section 21 a distance of 427.00 feet to the POINT OF BEGINNING of said line; thence running southerly at an angle of 90 degrees to the last described line South 00 degrees 08 minutes 58 seconds West, 1324.47 feet to the south line of said Northwest Quarter of the Southeast Quarter and said line there terminating.

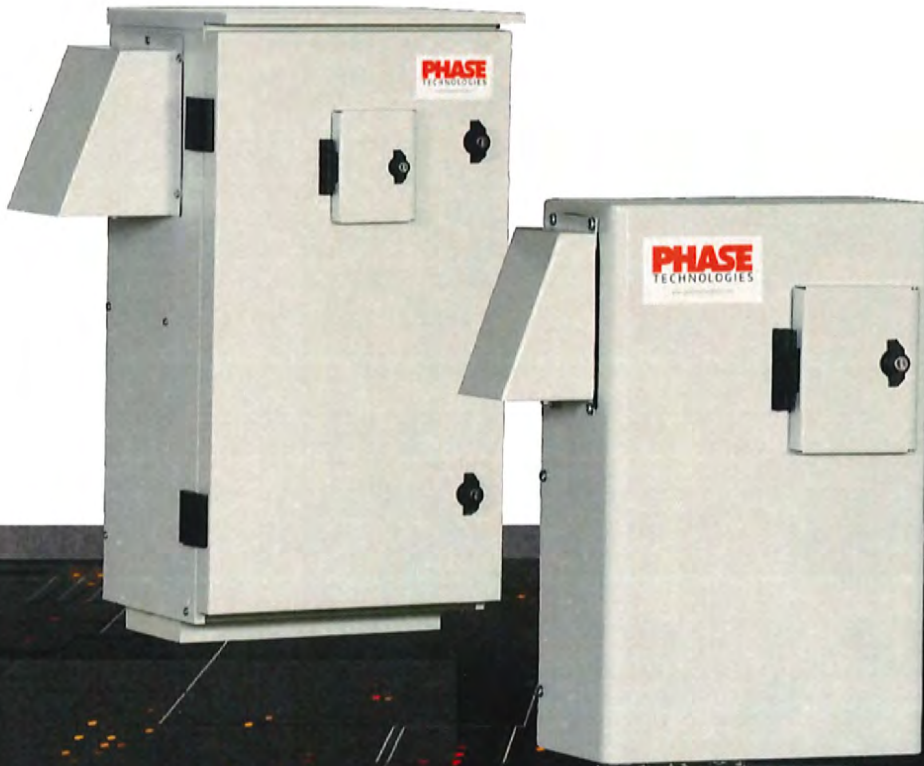
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PHASE
TECHNOLOGIES

SD-2XD
SERIES
2 HP to 15 HP



SD-2XD SERIES
VARIABLE FREQUENCY DRIVE
Phase Converting | Voltage Doubling

**INTUITIVELY
ENGINEERED**



PUMP SMARTER

Intuitive VFDs - Specifically Designed For Pumping

Simple Installation

- Standard input filters and optional output filters facilitate a quick and effortless installation

Perfect Pressure™ Programming

- User-friendly constant pressure setup wizard

EXCLUSIVE! Voltage Doubling VFDs

- Convert 240V single/three-phase to 480V three-phase power
- Big cost savings for long-lead or deep well applications

Rugged & Reliable Engineering

- Designed with quality, serviceability, and performance in mind

SD SERIES Phase Converting VFDs

Phase Technologies has designed a simple, phase converting solution for residential and light commercial constant pressure installations (2-10 HP). The SD product line offers simple setup, rugged hardware, NEMA Type 3R enclosures, and a top-of-the-line oil-filled pressure transducer.

System setup with Perfect Pressure™ requires only a few minutes and is capable of controlling the most complicated pump systems with ease.

The SD and 2XD Series VFDs control pressure consistently regardless of demand. The pump system runs smoothly with fewer instances of short cycling.

Simple Keypad & Easy Setup



- Identical keypad & setup on all models
- Bright & readable screen
- Prompts & messages in clear language
- Perfect Pressure™ Quick and easy constant pressure setup

Locking Enclosure & Keypad Cover

Safe and secure from tampering

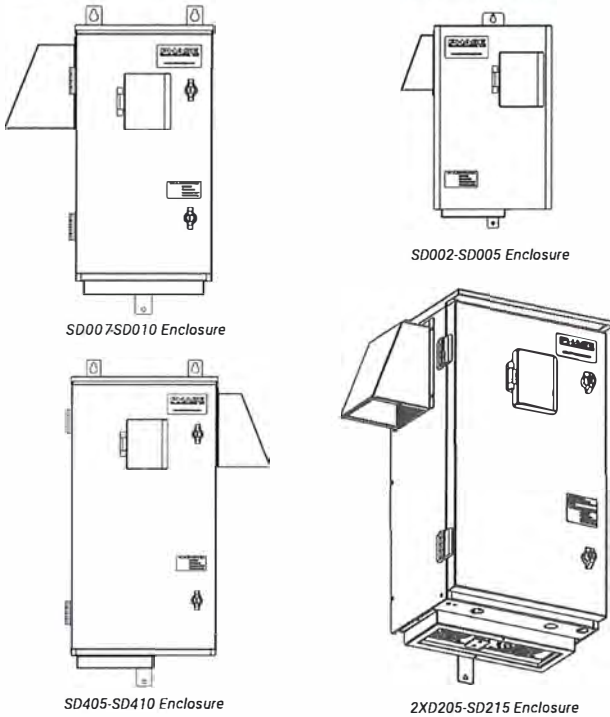


Rugged Design For Any Outdoor Application

SD-2XD SERIES

The need for water doesn't stop just because the weather changes. All Phase Technologies products are designed capable of withstanding extreme environmental conditions.

NEMA 3R Outdoor Enclosures | 122° F (50° C) | Easy Field Serviceability | Locking Enclosures



2XD SERIES

Phase Converting & Voltage Doubling VFDs

Patented Technology

Available Only From



Significant Cost Savings Unmatched Power

Voltage doubling is an innovation developed and patented by Phase Technologies that converts 208V/240V single-phase or three-phase power to nominal 480V three-phase power. If you've installed submersible pumps you know motor cable is a costly expense.

With our robust phase converting VFD systems, the efficiency, motor cable cost savings of 480V three-phase motors can be realized without the cost and time required to upgrade the utility service.

— Install Smaller Motor Cable



2XD Series Estimated Motor Cable Savings

Motor HP	240V 3-Phase		480V 3-Phase		Savings
	Wire size	Cost	Wire size	Cost	5 HP Savings
5 HP	500 ft.	8 AWG \$635	14 AWG	\$220	\$415
	1000 ft.	4 AWG \$2,690	10 AWG	\$850	\$1,840
	1500 ft.	2 AWG \$6,375	8 AWG	\$1,905	\$4,470
7.5 HP	500 ft.	6 AWG \$950	12 AWG	\$300	\$650
	1000 ft.	4 AWG \$2,690	10 AWG	\$850	\$1,840
	1500 ft.	2 AWG \$6,375	8 AWG	\$1,905	\$4,470
10 HP	500 ft.	6 AWG \$950	12 AWG	\$300	\$650
	1000 ft.	2 AWG \$4,250	8 AWG	\$1,270	\$2,980
	1500 ft.	0 AWG \$11,400	6 AWG	\$2,850	\$8,550
15 HP	500 ft.	4 AWG \$1,345	10 AWG	\$425	\$920
	1000 ft.	0 AWG \$7,600	6 AWG	\$1,900	\$5,700
	1500 ft.	000 AWG \$22,485	4 AWG	\$4,035	\$18,450

SD-2XD SERIES

2 HP to 15 HP

Specifications



Model / Part Number	HP	Input Rated Amps	Output Rated Amps	Weight	Max Dimensions (W x H x D) Inches
---------------------	----	------------------	-------------------	--------	-----------------------------------

SD SERIES *Phase Converting*

240V Input Single-Phase | 240V Output Three-Phase

SD002	2 HP	20 A	8 A	15 lbs	14 x 20 x 7 in.
SD003	3 HP	30 A	10 A	16 lbs	14 x 20 x 7 in.
SD005	5 HP	42 A	18 A	17 lbs	14 x 20 x 7 in.
SD007	7.5 HP	58 A	27 A	17 lbs	19 x 28 x 12 in.
SD010	10 HP	69 A	33 A	19 lbs	19 x 28 x 12 in.

480V Input Single-Phase | 480V Output Three-Phase

SD405	5 HP	30 A	10 A	29 lbs	20 x 33 x 10 in.
SD407	7.5 HP	37 A	13 A	31 lbs	20 x 33 x 10 in.
SD410	10 HP	42 A	18 A	33 lbs	20 x 33 x 10 in.

2XD SERIES *Phase Converting Voltage Doubling - Exclusive To Phase Technologies*

240V Input Single-Phase | 480V Output Three-Phase

2XD205	5 HP	31 A	10 A	67 lbs	21 x 32 x 13 in.
2XD207	7.5 HP	52 A	13 A	79 lbs	21 x 32 x 13 in.
2XD210	10 HP	64 A	18 A	85 lbs	21 x 32 x 13 in.
2XD215	15 HP	87 A	24 A	86 lbs	21 x 32 x 13 in.

NOTE: Dimensions are measured at maximum size and includes mounting hardware.

Sinewave Filter - Available on: SD405, SD407, SD410, 2XD205, 2XD207, 2XD210

508A Panel Shop Options

dV/dt Filter - Only available on: 2XD215

Strikesorb® Surge Protection - Available on: SD007, SD010. Standard on: 2XD205, 2XD207, 2XD210, 2XD215

Try Now!

Online Product Builder

Customize Your Model & **Get An Instant Quote**

Visit our website, www.phasetechnologies.com and build a custom quote. Or call our technical sales team at 866-250-7934 for questions.

Industry Best Lead Times: 3-7 Business Days



PHASE
TECHNOLOGIES

Phase Technologies, LLC
231 East Main St. North, Rapid City, SD 57701
605.343.7934 - Main 866.250.7934 - Toll Free

www.phasetechnologies.com



SD-2XD v1.0.08152019



Area 15 LPS

Proposal

PRJ 22-077

Rev.00

July 27, 2022

Table of Contents

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Lift Station Components & Accessories.....	5
Pump Tech Data	9
Control Panel Wiring Diagram & Data.....	12



Basin Details

BASIN BUILDER



Trusted. Tested. Tough.™

PROJECT INFORMATION

Project Name	22-077 Area 15 LS Typical
Contact Info	

Prepackaged Simplex Basin System, Pre-Plumbed, w/ Rail System
(Stainless Steel Pump Lifting Cables Included)

BASIC SYSTEM INFORMATION

Build	Prepackaged
Type	Simplex
Discharge Exit	Side

Ball Valve & Check Valve Installed

Approx. Weight: 490 lbs

INTENDED PUMP DATA

Pump Division	Engineered Prod.
Pump Family	7020/7021
Pump Discharge	1.25"

(1) - 2" Vent in Cover
(may or may not be shown)

30" Dia. Solid Cover-Fiberglass

BASIN SIZE PREFERENCES

Diameter	30"
Height	120"

S.S. Rails

COVER PREFERENCES

Surface	Solid
Material	Fiberglass
Vent Quantity	1 EA
Vent Size	2"

72" to Center

Side Discharge

120" Tall Fiberglass Basin

PLUMBING PREFERENCES

Inlet Hub	4" Pipe Seal
Discharge Piping	1.25"
Discharge Depth	72"
Pipe Material	Sch. 80 PVC
Shutoff Valve	Ball Valve

1.25" Plumbing Sch. 80 PVC

4" Pipe Seal Loose

DISCONNECT PREFERENCES

Class	Stainless Steel
Rail Material	Stainless Steel

1.25" Vertical Rail System S.S. Hardware

F.G. AFD Dia. 36.5"

DESIGN AIDS

Hub Invert Depth ¹	72"
Gallons / Inch	3.06 Gal / In
Working Volume ²	73.4 Gallons

¹ Hub is field installed. Depth is used to compute working volumes.
² Usable volume between inlet invert and minimum water level.

ACCESSORIES

Lifting Lugs
Electrical Coupling

Yes
In Basin

NOTES: DRAWING IS NOT TO SCALE.

PUMPS NOT INCLUDED - Pumps shown only for reference. Systems include check valves and disconnects as selected.

Individual components may differ from those shown.

Customer is wholly responsible for verifying code compliance.

Consult factory for basins larger than 72" dia. or 144" tall.

This Builder is valid for use until 9/30/2022.

Pricing

No

Sign Below For Approval



Lift Station Components
&
Accessories

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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



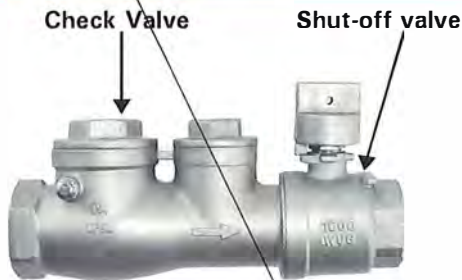
SECTION:Z4.20.400
ZM3191
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1020

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Accessories for LPS Systems (Low Pressure Sewers)



Curb Valve Assembly #10-4698 - 1.25" #10-4893 - 2"

- Lateral valve assembly installed at the entrance of each pressure sewer site
- Includes a 316 SS curb stop valve and check valve
- Curb stop valve used to isolate site from pressure sewer
- Check valve provides redundant protection against potentially harmful backflows
- 1.25" or 2" NPT connection for use with HDPE and PVC pressure sewer pipe and fittings (Adapters included)
- Rated up to 200 psi service pressure
- Designed for use with an optional curb box and valve extension rod

Curb Box #10-4875 (30" to 42") #10-4867 (42" to 60")

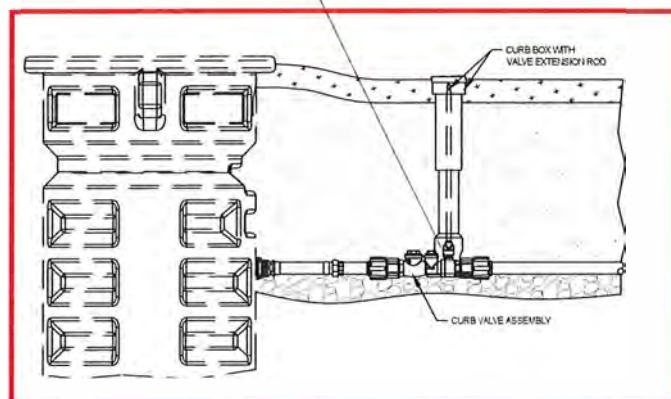
- Class 30 cast iron construction
- Conforms to ASTM A48 / A48M-03 specifications
- Designed to fit over and attach to a 1.25" or 2" curb stop valve
- Two sizes, selected by valve burial depths, adjustable 30" to 42" or 42" to 60"
- Depth adjustments, secured by internal threads
- Bolt down cover, imprinted with SEWER marking
- Steel centering ring, for positioning and stabilizing the rod



Valve Extension Rod #10-4876 - 24" Rod #10-4877 - 36" Rod #10-4866 - 48" Rod

- 5/8" OD steel rod with means for connecting to the curb stop valve

Typical Curb Valve and Box Installation



SK3240

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FLOAT SWITCHES AND BRACKETS



COMPARE THESE FEATURES

- Float is constructed of durable PVC/polypropylene encasing variable level switch.
- Standard mechanical variable level control switches are rated for 115/230V, 5 amps.
- 18/2 Type SJOW CPE Cord-Standard
- Cords are available in 15-20-25-35-50 foot lengths.
- Temperature rating of 140 °F (60 °C)
- Low current switches for Class I, Division 1, Group C & D locations and Class Zone 1, Group IIA & IIB when used in intrinsically safe circuits and rated for 30 VDC, 0.1 Amps
- Approximately 1/2" liquid level differential in switching action

Variable Level Control Switch is normally open when hanging vertically above liquid level. Switch closes when it reaches a few degrees above the horizontal position.

APPLICATIONS

- Switch for Simplex or Duplex pump control and High Level Alarm on Electrical Alternating Control Panel systems for dewatering, effluent and sewage applications.
- Switch for A-Pak
- High Level Alarm Switch

ADJUSTABLE WEIGHT: (P/N 10-0689)

- Provides an accurate pivot point for suspended float switches
- Gripper teeth on clip and weight channel securely lock float cable into place.
- Cable weight can be adjusted without the use of tools.

HOUSING: 1 lb. 12 oz. (0.8 kg) 2.8" x 3.3" (7.1 cm x 8.4 cm)
impact-resistant and non-corrodible, PVC housing for liquids up to 140 °F (60 °C)

CLIP: injection-molded acetal plastic

WIRE/CABLE ACCOMODATED: SJOW, SJTW, 18/2, 16/3, 14/4, 14/2

SHIPWEIGHT: 2 lbs. (32 oz)

Float Switch Kits - 20' Cords	
10-0347	3 switches and weights
10-0348	4 switches and weights
10-0689	Weight Only

VARIABLE LEVEL CONTROL SWITCHES

Pipe Clamp Type



Adjustable Weight



May not be exactly as pictured.

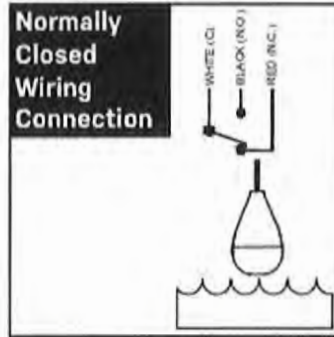
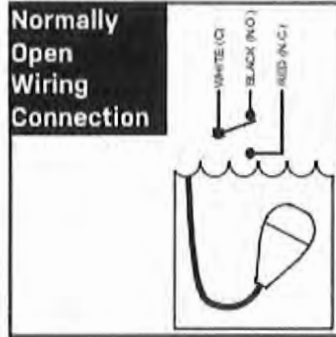
FLOAT SWITCHES

Mechanical		Cord Length	Mounting Method
Standard P/N*	Low Current P/N**		
10-0743	10-2060	15	Clamp
10-0744	10-2061	20	Clamp
10-1877	10-2062	25	Clamp
10-1878	10-2063	35	Clamp
10-1879	10-2064	50	Clamp
10-1880	10-2065	15	Adjustable weight
10-2033	10-3284	20	Adjustable weight
10-1881	10-2066	25	Adjustable weight
10-1882	10-2067	35	Adjustable weight
10-1883	10-2068	50	Adjustable weight

2 in 1 Control Switch



10-5119 - 25' Cord



Features

- Internally weighted
- 3 wire cable – SPDT (Single Pole, Double Throw) can be wired as normally open or normally closed. Wire color: Common (white), N.O. (black), N.C. (red)
- Large twin wall tear drop shape design offers increased buoyancy
- Two-color housing allows for easy identification of float position
- Unique gold cross-point contacts provide precision and reliable control signals up to 1 amp
- Excellent solution for applications with high grease content

Float Switch Brackets

FLOAT SWITCH TREES			
Mechanical		Cord Length	Mounting Method
Standard P/N*	Intrinsically Safe P/N		
10-1456	10-1456	---	Tree only
10-1886	10-2069	15	(3) 15' Floats & Tree
10-1887	10-2070	15	(4) 15' Floats & Tree
10-5135	-	-	Tree only (72" rotomolded basin)
10-5153	-	-	Tree only (98" rotomolded basin)



ANCHOR KIT WITH CHAIN		
Part Number	Chain Length	Float Clamps
10-5036	15'	4
10-5037	20'	4
10-5038	25'	4
10-5039	30'	4

Features

- 3/16" Type 304 Stainless Steel Chain
- Anchor to rest at bottom of basin
- Includes 4 float clamps. Additional float clamps available upon request
- Floats not included



Pump Tech Data

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ZM2424
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MODELS 7020-7021 TECHNICAL DATA 1.0 & 2.0 HP



MODELS:	<input checked="" type="checkbox"/> 7020	<input type="checkbox"/> 7021
PUMP NAME PLATE HORSEPOWER:	1.0	2.0
SERVICE FACTOR:	1.2	1.2
MAXIMUM KW INPUT:	1.5 (230 V)	2.0 (200 V), 2.1 (230 V)
DISCHARGE SIZE:	1.25" NPT	1.25" NPT

IMPELLER TYPE:	HYDRAULIC HELIX ROTOR	MECHANICAL SHAFT SEAL:	TYPE 6A
CUTTER & PLATE:	440C SS HARDENED TO ROCKWELL C55-60	MOTOR DESIGN LETTER:	NEMA L (1Ph)
PUMP NET WEIGHT:	88 IBS. (39.9 KG)	POWER CORD LENGTH: ft (m) (20' STANDARD) OPTIONAL:	<input type="checkbox"/> 25' (7.6 m) <input checked="" type="checkbox"/> 35' (10.7 m) <input type="checkbox"/> 50' (15.2 m)
O-RING & GASKET:	VITON		
MOTOR SHAFT:	416 SS	POWER CORD:	16 GAUGE SOOW
RPM:	1750	STATOR & LEAD WIRES INSULATION:	CLASS B
MOTOR TYPE:	SUBMERSIBLE	MAXIMUM STATOR TEMPERATURE:	266 °F (130 °C)

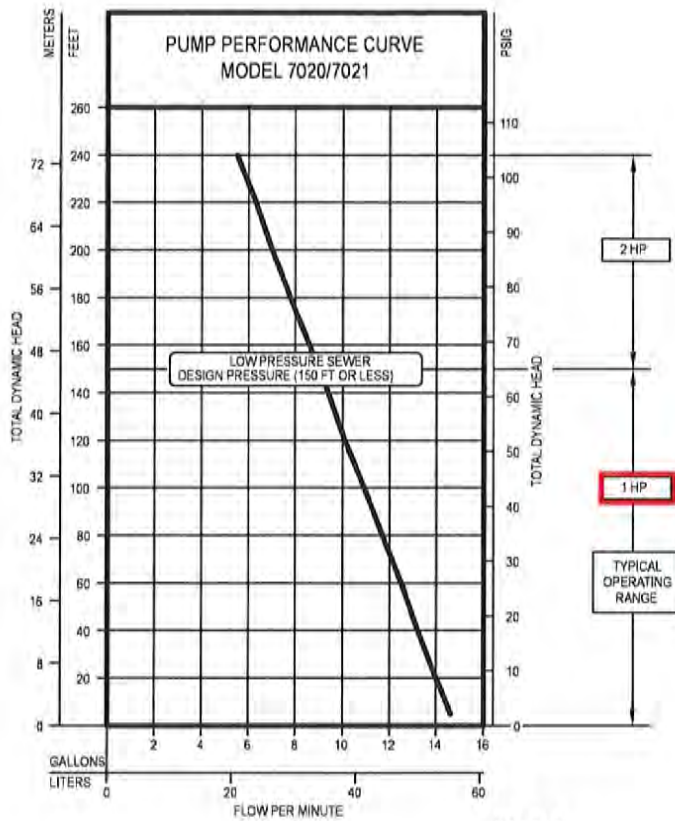
SHAFT SEAL CONSTRUCTION:	STANDARD	SILICON CARBIDE/CARBON
MOTOR PROTECTION	INTEGRAL OVERLOAD	
MAXIMUM WATER TEMPERATURE:	130 °F (54 °C)	

MODEL	HP	SERVICE FACTOR	□ 200V / 1 PH		□ 230V / 1 PH	
			FLA	LRA	FLA	LRA
7020	1	1.2	N/A	N/A	7.0	24.5
7021	2	1.2	12.0	49.5	10.0	44.0

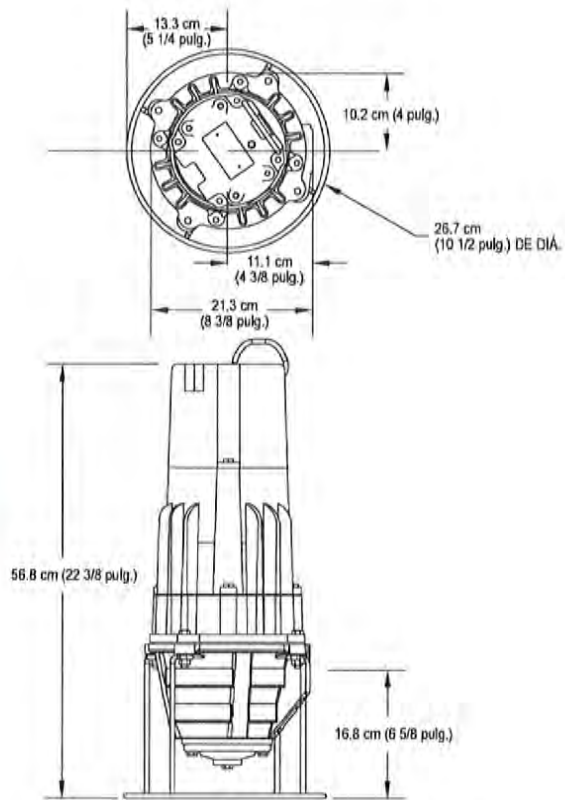
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SWPA Data Categories Presented -- Data on this sheet supply design information as the minimum recommended by the Submersible Wastewater Pump Association and is defined in accordance with SWPA's Standardized Definitions for Pump and Motor Characteristics. The accuracy of the data is the responsibility of Zoeller Engineered Products.

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018330



SK2533

Standard all models- 20 Ft. - 1 HP				
7020 models	Control Selection			Listed
	Volts	Ph	Amps	cCSAus
*E7020	230	1	7.0	Yes
RWD7020	230	1	7.0	Yes

Standard all models- 20 Ft. - 2 HP				
7021 models	Control Selection			Listed
	Volts	Ph	Amps	cCSAus
*E7021	230	1	10.5	Yes
RWD7021	230	1	10.5	Yes
I7021	200	1	12.0	Yes
RWH7021	200	1	12.0	Yes

* Molded plug.

FEATURES

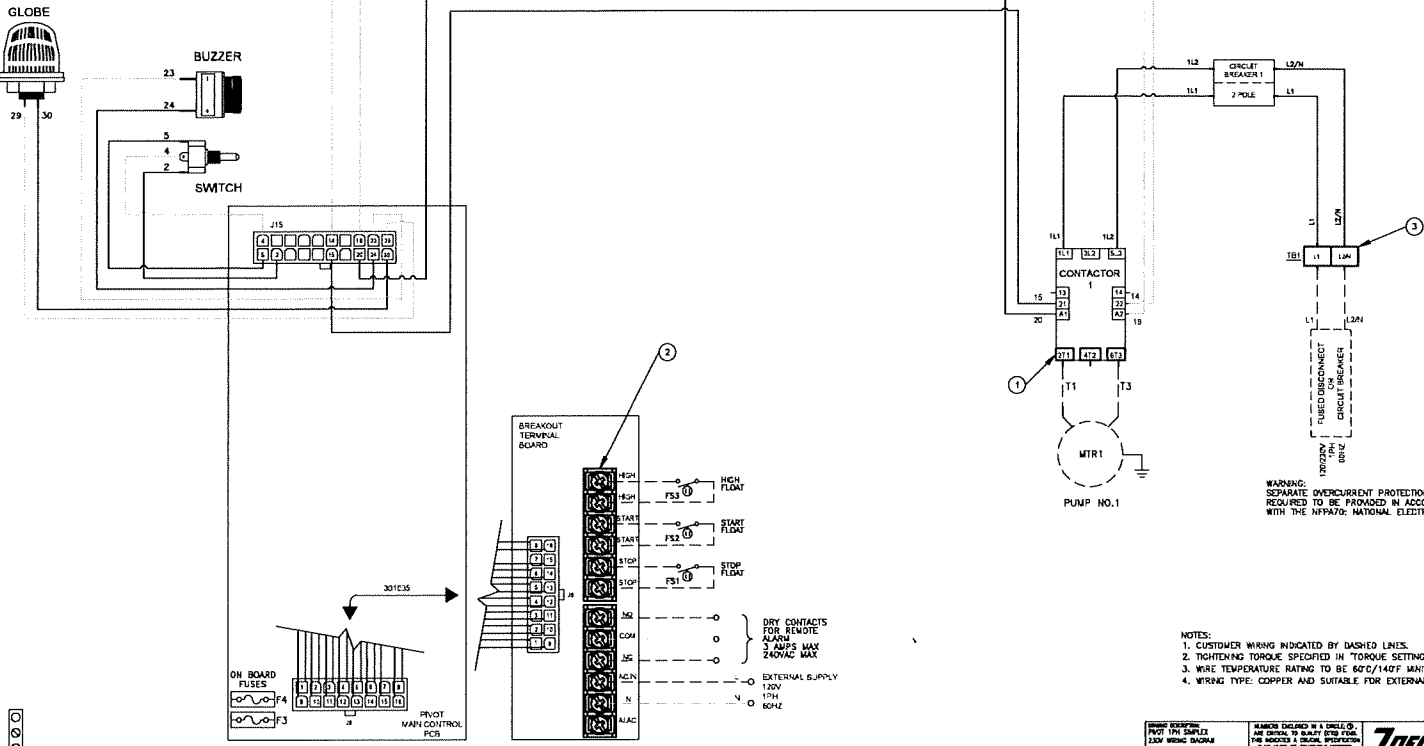
- Durable epoxy coated cast iron construction
- Bearings - upper and lower ball bearing
- Stainless steel motor shaft
- Motor - 1 HP (7020) or 2 HP (7021), 60 Hz, 1750 RPM, 1 PH, oil-filled, hermetically sealed, automatic reset thermal overload protected
- Silicon carbide/carbon shaft seal
- Viton O-ring seals and cover gasket
- UL Listed 20 ft. 3-wire SOW cord with 15 amp plug. Longer cords available in 25', 35' & 50'.
- Hardened 440C stainless steel cutter and disc, Rockwell C55-60
- Stainless steel helix hydraulic pump rotor with integral upper deflection shield
- Buna N hydraulic rotor
- Pressure relief valve
- 304 SS hardware
- SS mounting stand for free standing installation
- 100% computerized tested



Control Panel
Wiring Diagram & Data

CUSTOMER TORQUE SETTING		
NUMBER	COMPONENT	TORQUE
1	CONTACTORS	1.7 N.m. 15 lb-in
2	BREAKOUT TERMINAL BOARD	1.15 N.m. 10 lb-in
3	TERMINAL BLOCK	1.6 N.m. 18 lb-in

REVISIONS			
REV	BY	DATE	DESCRIPTION
1	JEB	10/27/92	INITIAL RELEASE
2	JEB	10/28/92	IMPROVED WIRING
3	JEB	11/11/92	IMPROVED WIRING
4	JEB	11/11/92	IMPROVED WIRING



WARNING: SEPARATE OVERCURRENT PROTECTION IS REQUIRED TO BE PROVIDED IN ACCORDANCE WITH THE NFPA70: NATIONAL ELECTRICAL CODE

- NOTES:
1. CUSTOMER WIRING INDICATED BY DASHED LINES.
 2. TIGHTENING TORQUE SPECIFIED IN "TORQUE SETTINGS" CHART.
 3. WIRE TEMPERATURE RATING TO BE 60°C/140°F MINIMUM.
 4. WIRING TYPE: COPPER AND SUITABLE FOR EXTERNAL HOOKUP.

NOTICE: THESE ARE INFORMATIONAL SCHEMATICS ONLY. THEY DO NOT REPLACE PROFESSIONAL GUIDANCE WITHIN ANY JURISDICTION OR FOR ANY APPLICATION AN SHOULD NOT BE RELIED UPON TO DO SO

MODEL SPECIFICATIONS PUMP 174 SAMPLE 230V WEGING DIAGRAM	NUMBER ENCLOSED IN A CIRCLE ARE OPTIONAL TO QUALITY CONTROL FROM THE ORIGINAL DESIGN AND SPECIFICATIONS THAT MUST BE INDICATED BY SYMBOL.	
DESIGNER JEB DATE 10/27/92 PROJ. NO. 301101	COMPANY ZOLLER ADDRESS 11111 11111 11111 11111	
SCALE 1:1 DATE 10/27/92	REV. NO. 1 DATE 10/27/92	301101 ZOLLER

Pivot Your Thinking™

More Standard Features, Greater Value, Fewer Models To Stock.

Introducing: Pivot® 1Ph Control Panels

For 1Ph and 3Ph Pivot® Pro, see other side

Text Key:

Features common with our previous model

Additional STANDARD features on Pivot® and Pivot® Pro

Pivot®: 115/200/230

Simplex and Duplex models

Limited 5 year warranty



Touch-safe user interface LED indicators:

-System Ready

-Float switch LED indicators

-float switch faults

-Pump Run LED indicator(s)

Latching globe and horn feature

3 or 4 float switch operation

-choice of multiple float logic and orders

-built in switch redundancy

-configurable float switch operation

-choose between Smart and Relay Switch Logic

Separate fuses for alarm and control circuits

Smart HOA:

-prevents accidental On or Off

-Off mode reminder

Pictured panel: Pivot® Pro 1Ph
32324-0001 (Replaces: 10-1044)

Top mount globe
-varying globe patterns for distinct alarm conditions

Side mount horn

Side mount Test/Silence switch

Test switch tests all LEDs, globe, and horn

NEMA 4X enclosure, locking hasp, dead front.
12x10x6 Pivot™

Motor contactor(s), breakers (1Ph)
-staggered pump start

Alarms for:
-high water alarm
-continuous pump run
-incorrect control voltage
-disabled alarm circuit
-failed contactor
-overload
-float fault
-HOA Off timeout

Auxiliary output, form C (aka dry contacts)

USB features:
-pump starts counter
-elapsed time meter
-custom configurations
-update firmware

Factory Reset for clearing and troubleshooting
Set of 5 PCB jumpers for selection of preferences

Ample room for field wiring

Next up for the Pivot® line:

-Pivot® Pro+ reversing

-Pivot® Pro+ time dose



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FM3294
1121
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1220

Pivot Your Thinking™

More Standard Features, Greater Value, Fewer Models To Stock.

Introducing: Pivot® Pro 1Ph and 3Ph Control Panels

For Pivot® 1Ph, see other side

Pivot® Pro includes all the features of the Pivot® (other side)

PLUS these additional upgraded features

Pivot® Pro: 1Ph and 3Ph circuit breakers or 3Ph 200/230/460V with multi-tap transformer

Simplex and duplex models
Limited 5 year warranty



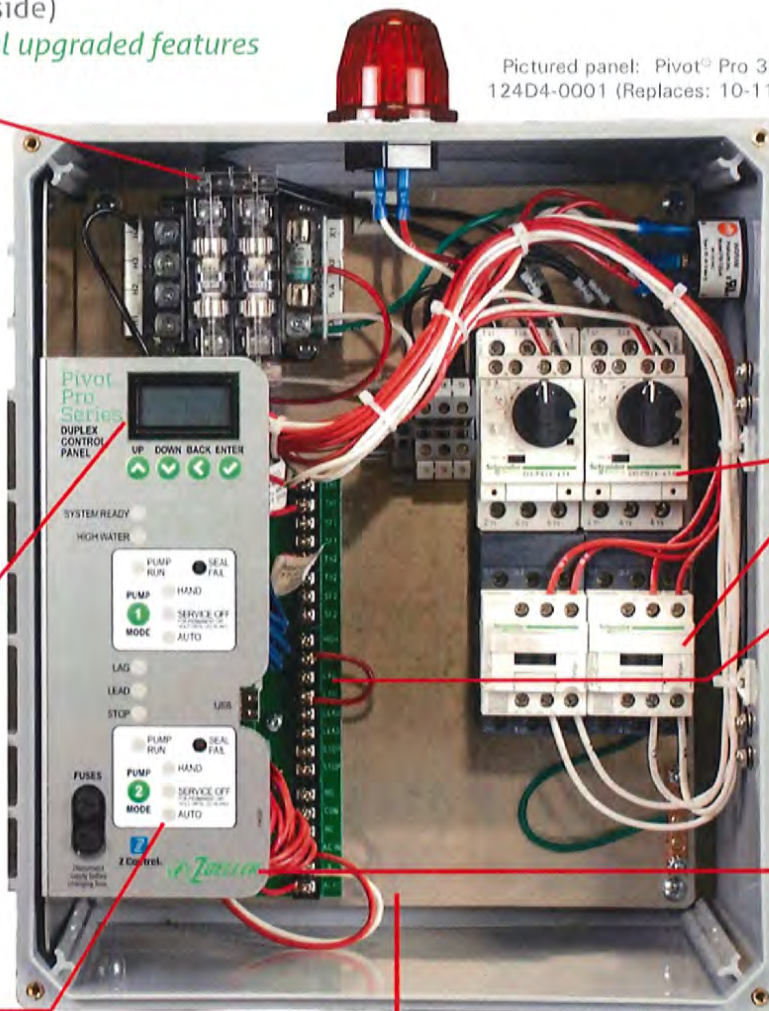
LCD display:

- full menu system for configuration
- keypad lock for security
- service information: name and phone number
- review pump starts, elapsed run times, and other system data
- selectable ratio for pump alternation (duplex)
- lead/lag select (duplex)
- configurable continuous run alarm timer
- horn configurable: latching/active

Smart HOA:

- prevents accidental pump damage
- reminder to return to Auto operation
- adjustable behaviors

Pictured panel: Pivot® Pro 3Ph
124D4-0001 (Replaces: 10-1108)



NEMA 4X enclosure, locking hasp, dead front.
-14x12x6 Pivot® Pro

Motor contactors with built-in pump run contacts. Overloads (3Ph)

Terminal strip for circuit and alarm power, float switches, auxiliary contacts, seal fail leads, and thermal leads.

Data jack for Z Control® Gateway (sold separately)

- remote testing and monitoring
- remote configuration
- alert notifications: text, email, app push.

Ample room for field wiring

Next up for the Pivot® line:

- Pivot® Pro+ reversing
- Pivot® Pro+ time dose



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TECHNICAL DATA SHEET

Pivot Series Control Panels

- Pivot 1Ph control panel, highly featured
- Pivot Pro 1Ph or 3Ph control panel with advanced features such as a user-friendly LCD interface and support for pump sensors and Z Control®
- Pivot Pro + The Pivot Pro+ control panel is a Pivot Pro control panel built with one or more options and usually requiring a larger enclosure

SPECIFICATIONS

Certifications

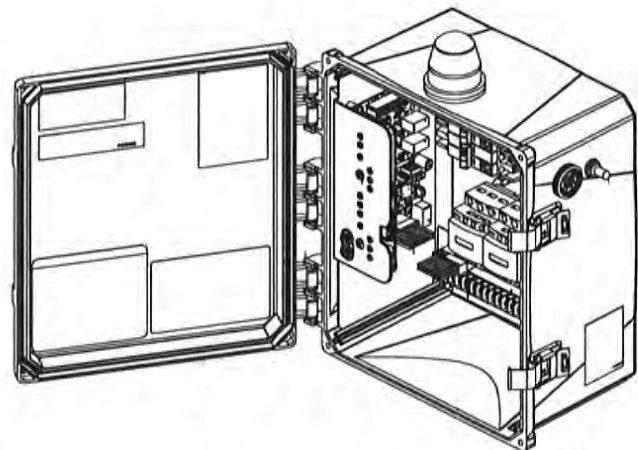
- cCSAus certified to standard UL508
- FCC Class-B certification to ISSED Canada ICES-003, Issue 6
- For outdoor or indoor use, -40C to +60C

Components

- Red alarm beacon with 360-degree visibility
- Audible alarm buzzer rated 95 db at 2' (0.6 m)
- SILENCE/RESET/TEST toggle switch with weatherproof rubber boot
- HAND/OFF/AUTO control are included for each pump
- Auxiliary output dry contacts (NO-COM-NC) terminals, Form C, 5A resistive load
- Pump Run dry contact, (NO-COM)
- NEMA 4X 12"x10"x6" enclosure with lockable latch

Power

- Control circuit powered by 120VAC, 60 Hz
- Alarm circuit can be powered by separate power feed, if needed
- Alarm and control circuits individually fused, 3A, fast-acting, 120VAC
- Circuit breaker protection
- Max alarm and control circuit power consumption: Simplex models 32W, Duplex models 40W
- Max standby power consumption: 5W
- Terminals for 120VAC control power, 120VAC alarm power, up to 4 float switches (duplex), pump input power
- 1Ph IEC motor contactors, models 120/208/240 VAC, 50/60Hz, up to 50A maximum



31314-0001

Field Wiring & Maintenance

- 4 enclosure mounting brackets are included
- 2 sets of wiring schematics and installation instructions are included along with an inside door mounted QR code for easy access to additional support material online
- All wires and terminal locations thoroughly labeled for easy identification
- All components are serviceable (See FM3364 for available replacement parts)

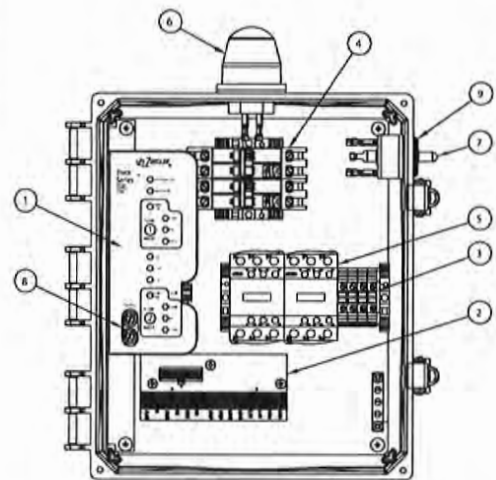
STANDARD FEATURES (For a more thorough description of features, see ZM3376 Panel Selection Guide or FM3295 Cross Reference and Features Comparison List)

- 5 year limited warranty
- RED/AMBER/GREEN LEDs for float switch indicators, Pump Run, High Water, System Ready, and HOA functions
- Ample room for field wiring
- TEST toggle will check all LEDs, globe, and horn
- Elapsed time and cycle counts via USB port
- Adjustable settings (see Installation Instructions)
 - o 'Smart' or 'Standard' float logic (Smart logic will compensate for bad floats. Standard logic will operate like traditional panels.)
 - o Continuous run alarm: 20 minute default (Additional adjustable settings accessible: enable or disable via USB port)
 - o HOA Pump Run & Service Off Timeouts (enable or disable via USB port)
 - Service OFF and Permanent OFF pump modes
 - Smart HOA timer prevents pump damage caused by accidental "ON"
 - Smart HOA includes a Service OFF reminder alarm
 - o Globe mode (solid, blink, or alarm-specific blink pattern)
 - o Duplex float configuration (Stop/Lead/Lag/High or Stop/Lead/High/Lag)

COMMON PIVOT CONTROL PANEL DETAILS

PART NO.	REV	SIMPLEX OR DUPLEX	ENCLOSURE	VOLTAGE	PHASE	FULL LOAD AMP	BREAKER RATING	DIMENSIONS "A" X "B" X "C"
31314-0001	A	SIMPLEX	NEMA-4X	120/208/240	1	0 TO 7	15	12" X 10" X 6"
31324-0001	A	SIMPLEX	NEMA-4X	120/208/240	1	7 TO 15	20	12" X 10" X 6"
31334-0001	A	SIMPLEX	NEMA-4X	120/208/240	1	15 TO 20	30	12" X 10" X 6"
31344-0001	A	SIMPLEX	NEMA-4X	120/208/240	1	20 TO 30	50	12" X 10" X 6"
31354-0001	A	SIMPLEX	NEMA-4X	120/208/240	1	0 TO 20	25	12" X 10" X 6"
32124-0001	A	DUPLEX	NEMA-4X	120	1	7 TO 15	20	12" X 10" X 6"
32134-0001	A	DUPLEX	NEMA-4X	120	1	15 TO 20	30	12" X 10" X 6"
32314-0001	A	DUPLEX	NEMA-4X	120/208/240	1	0 TO 7	15	12" X 10" X 6"
32324-0001	A	DUPLEX	NEMA-4X	120/208/240	1	7 TO 15	20	12" X 10" X 6"
32334-0001	A	DUPLEX	NEMA-4X	120/208/240	1	15 TO 20	30	12" X 10" X 6"
32344-0001	A	DUPLEX	NEMA-4X	120/208/240	1	20 TO 30	50	12" X 10" X 6"
32354-0001	A	DUPLEX	NEMA-4X	120/208/240	1	0 TO 20	25	12" X 10" X 6"

- 1) User Interface
- 2) Terminal Board
- 3) Pump Power Terminals (TB1)
- 4) Pump Circuits Breaker(s)
- 5) Motor Contactors
- 6) Globe
- 7) Test/Silence/Reset Switch
- 8) Fuses
- 9) Buzzer



Duplex Pivot

Alarm Conditions

Alarm Condition	User Interface LEDs						
	Latching	Globe	System Ready	High Water	Pump Run (1 or 2)	Pump Off (1 or 2)	Stop, Start/Lead, or Lag
Service Off Timeout	No	Double Blink	Off	Off	Off	Blinking Red	Off
Disabled Alarm Circuit	No	Double Blink	Off	Solid Red	Off	Off	Solid Red
Continuous Run	Yes	Solid	Off	Off	Blinking Amber	Off	Off
High Water Float Logic Error	Yes	Slow Blink	Off	Blinking Red	Off	Off	Off
Float Logic Error	Yes	Slow Blink	Off	Off	Off	Off	Blinking Red
Float Questionable	Yes	Slow Blink	Off	Off	Off	Off	Blinking Amber
High Water	Yes	Solid	Off	Solid Red	Off	Off	Off
High Control Voltage	Yes	Off	Blinking Green	Blinking Red	Blinking Red	Blinking Red	Blinking Red

CITY OF MANTORVILLE NOTICE OF PUBLIC HEARING

Notice is hereby given that the City of Mantorville Planning Commission will convene on Monday, October 24, 2022, at 6:30 pm in the Council Chambers at Mantorville City Hall, 21 5th St E, Mantorville, MN 55955. During said meeting, the Planning Commission will conduct a public hearing for the preliminary plat tentatively called Area 15, which proposes to subdivide Dodge County PID 130210401 into 36 residential lots and one outlot. Thereafter, the Planning Commission will make a recommendation to the City Council regarding the application. All interested persons are invited to attend the public hearing and be heard. Materials submitted by the applicant are available for inspection at Mantorville City Hall during regular business hours.

Shirley R Buecksler
City Clerk-Treasurer



Trail to the Past. Road to the Future.

**CITY OF MANTORVILLE
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City Clerk-Treasurer

CITY OF MANTORVILLE

21 5th Street E • P.O. Box 188 | Mantorville, MN 55955 | p: 507.635.5170

email: info@mantorville.com | www.mantorville.com

On the National Register of Historical Places Est. 1854



Trail to the Past. Road to the Future.

**CITY OF MANTORVILLE
NOTICE OF PUBLIC HEARING**

TO WHOM IT MAY CONCERN:

A parcel that you own is within 350 feet of the preliminary plat tentatively called Area 15, which proposes to subdivide Dodge County PID 130210401. Notice is hereby given that the City of Mantorville Planning Commission will convene on Monday, October 24, 2022, at 6:30 pm in the Council Chambers at Mantorville City Hall, 21 5th Street East, Mantorville, Minnesota 55955. During said meeting, the Planning Commission will conduct a public hearing for the above-referenced preliminary plat. The plat proposes to establish 36 buildable residential lots and one outlot on Dodge County PID 130210401. After the public hearing, the Planning Commission will make a recommendation to the City Council regarding the application. Materials submitted by the applicant are available for inspection at Mantorville City Hall during regular business hours.

All interested persons are invited to attend the public hearing and be heard. If you are unable to attend the public hearing but would like to provide comment, you may send an email to my attention at shirley@mantorville.com by 3:00 pm on Monday, October 24, 2022. All comments received by this date and time will be printed and provided to the Planning Commission for the public hearing.

If you have any questions, please feel free to contact me at 507.635.5116.

Sincerely,

A handwritten signature in blue ink that reads "Shirley R. Buecksler". The signature is written in a cursive style.

Shirley R. Buecksler
City Clerk-Treasurer

CITY OF MANTORVILLE

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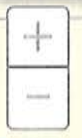
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Mail by 10.13.22



Dodge County Internal Parcel Viewer

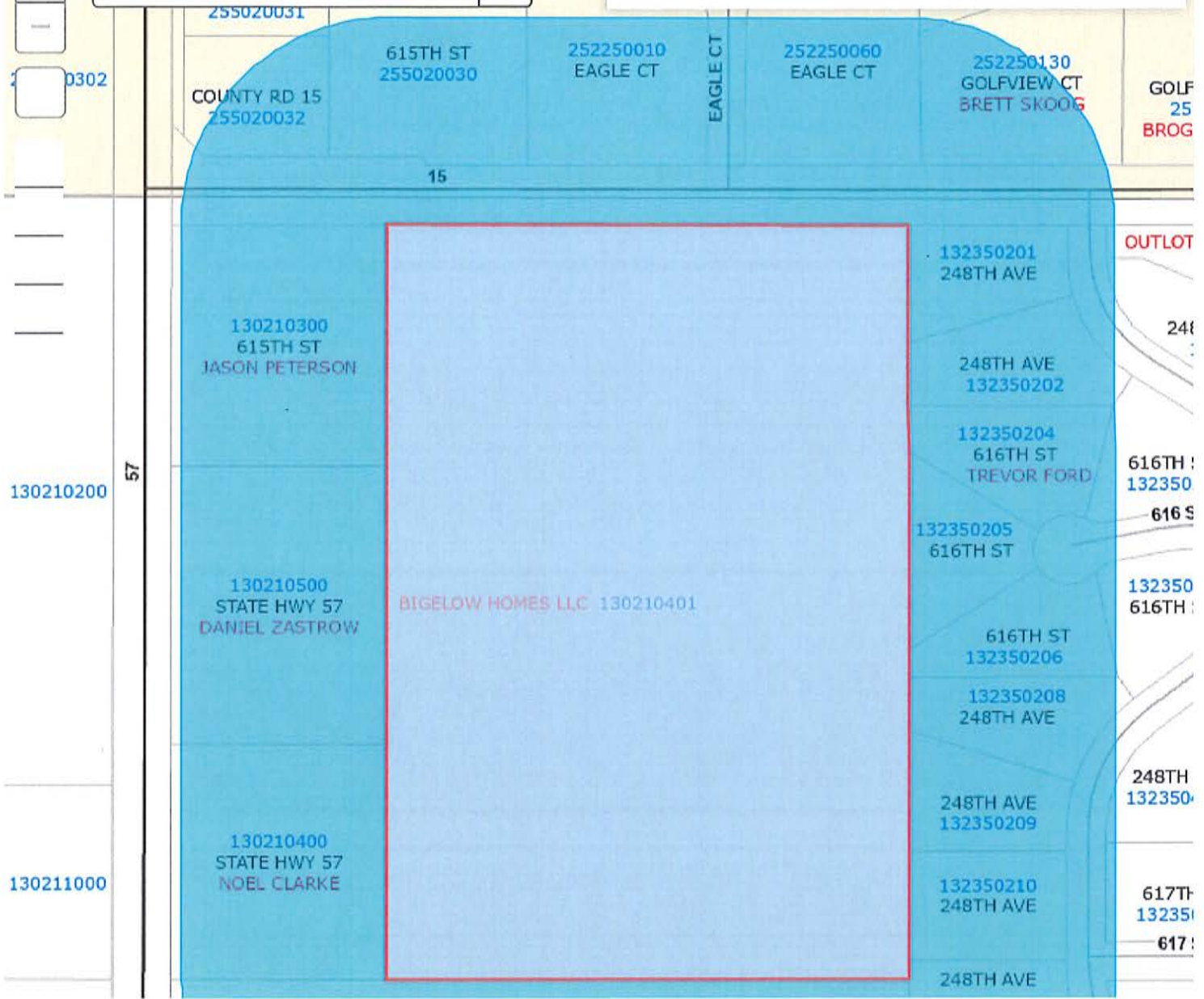


721 MAIN ST N (All Caps)



EAGLE

Enhanced Search



App State

Click to restore the map extent and layers visibility where you left off.

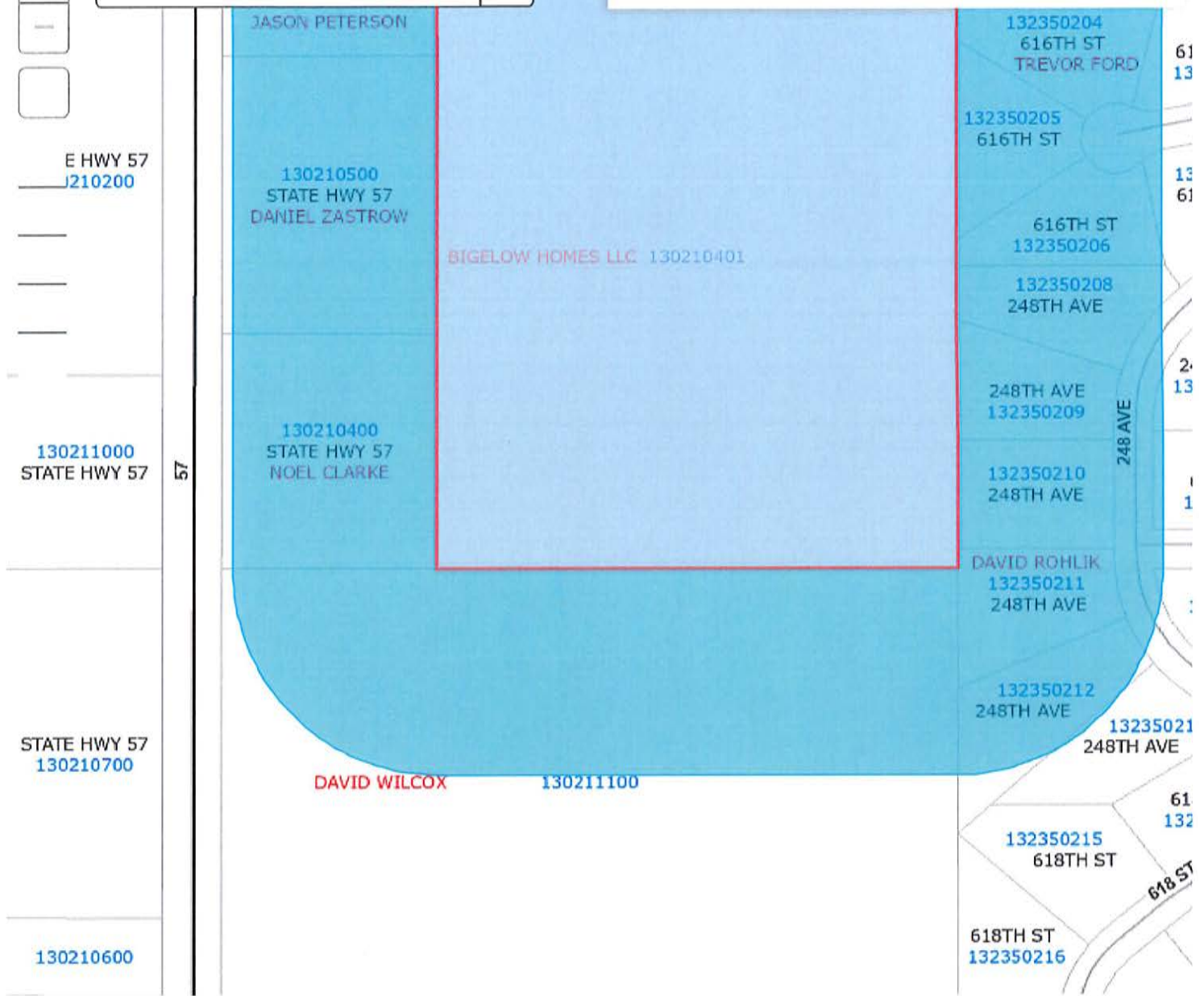


Dodge County Internal Parcel Viewer



721 MAIN ST N (All Caps)

Enhanced Search



App State

Click to restore the map extent and layers visibility where you left off.

PIN	Tax Payer 1	Tax Payer 2	Address 1	Address 2	City	State	ZIP
252250060	RUSSELL H HILSMAN	BECKY L HILSMAN	520 EAGLE CT SE		MANTORVILLE	MN	55955
132350210	ROBERT J PETERSEN	CAROL S PETERSEN	61719 248TH AVE		MANTORVILLE	MN	55955
252250130	BRETT SKOOG	TESSAH SKOOG	612 GOLFVIEW CT		MANTORVILLE	MN	55955
130210500	DANIEL ZASTROW		61648 STATE HWY 57		KASSON	MN	55944
255020032	WAYNE C SCHERBRING	BECKY R SCHERBRING	24584 615TH ST		MANTORVILLE	MN	55955
130211100	DAVID WILCOX		945 150TH ST		KANAWHA	IA	50447
132350209	STEVEN L WEBER		61696 248TH AVE		MANTORVILLE	MN	55955
130210400	NOEL CLARKE		61748 STATE HWY 57		KASSON	MN	55944
132350204	TREVOR FORD	SASHA FORD	24700 616TH ST		MANTORVILLE	MN	55955
132350100	OUTLOT C ROLLING HILLS ASSOC	% ROBERT HAMLIN, PRESIDENT	24711 616TH ST		MANTORVILLE	MN	55955
132350208	STEPHEN L EHLKE	NANCY M EHLKE	61677 248TH AVE		MANTORVILLE	MN	55955
255020030	WAYNE C SCHERBRING	BECKY R SCHERBRING	24584 615TH ST		MANTORVILLE	MN	55955
132350206	ROBERT H HAMLIN	KATHLEEN M HAMLIN	24711 616TH ST		MANTORVILLE	MN	55955
132350409	MARK E KUJATH	NICOLE E KUJATH	61674 248TH AVE		MANTORVILLE	MN	55955
252250010	EDWARD & DEBORAH REICHER TS AG		521 EAGLE CT SE		MANTORVILLE	MN	55955
132350201	CORI L PAULSON		61519 248TH AVE		MANTORVILLE	MN	55955
132350104	SHAUN HALL	SARAH E HANCOCK-HALL	61528 248TH AVE		MANTORVILLE	MN	55955
132350212	DANIEL HEAD	LINDA HEAD	61755 248TH AVE		MANTORVILLE	MN	55955
132350203	CHAD M BOELTER	AMANDA J BOELTER	24724 616TH ST		MANTORVILLE	MN	55955
132350205	DARREN J SPREITER	SHERI SPREITER	24709 616TH ST		MANTORVILLE	MN	55955
255020031	CASEY A ARNOLD	SARAH A ARNOLD	140 STATE HWY 57		MANTORVILLE	MN	55955
132350404	ANTHONY J NELSON	RHONDA L NELSON	61774 248TH AVE		MANTORVILLE	MN	55955
130210300	JASON PETERSON	TIFFANY PETERSON	24575 615TH ST		MANTORVILLE	MN	55955
252250140	MICHAEL E NOBLE	ELAINE M NOBLE	614 GOLFVIEW COURT		MANTORVILLE	MN	55955
132350213	GEOFFREY R FLYNN	JENNIFER A FLYNN	61771 248TH AVE		MANTORVILLE	MN	55955
130210401	BIGELOW HOMES LLC		4057 28TH ST NW #100		ROCHESTER	MN	55901
132350408	DAVID M WILCOX		24842 617TH ST		MANTORVILLE	MN	55955
132350211	DAVID ROHLIK	GINA ROHLIK	61743 248TH AVE		MANTORVILLE	MN	55955
132350207	KATE E BROSSARD		24719 616TH ST		MANTORVILLE	MN	55955
132350202	BRADLEY J JOHNAS	JENNIFER J JOHNAS	61535 248TH AVE		MANTORVILLE	MN	55955

Additional:

TONY BIGELOW		4057 28TH ST NW	ROCHESTER	MN	55901
CAROL ALLEN	MANTORVILLE TOWNSHIP				
DUKE HARBAUGH	MANTORVILLE TOWNSHIP				
DODGE COUNTY HIGHWAY DEPT					
DODGE COUNTY ASSESSOR'S OFFICE					
DODGE COUNTY SURVEYOR					
WHKS					
KASSON MANTORVILLE SCHOOL BOARD					
XCEL ENERGY					
KM TELECOM					
MnDOT DISTRICT 6					
MEDIACOM LLC					
DODGE COUNTY PLANNING					
MINNESOTA ENERGY RESOURCES					
XCEL ENERGY (LAND USE)					
KENNEDY & GRAVEN					
DODGE COUNTY ENVIRONMENTAL QUALITY					

REMINDER - SAVE THE DATE

Planning Commission Meeting

Date: Monday, November 14, 2022 at 6:30 pm

Location: Mantorville Council Chambers

21 5th Street E, Mantorville, Minnesota

Public Hearing: Preliminary Plat for Area 15

At their October 24, 2022 meeting, the Mantorville Planning Commission continued the public hearing to November 14th for the preliminary plat tentatively called Area 15, which proposes to subdivide Dodge County PID 130210401 into 36 residential lots and one outlot. All interested person are invited to attend the public hearing and be heard. If unable to attend, comments may also be emailed to the City Clerk at shirley@mantorville.com. All comments received via email by 3:00 pm on Monday, November 14, 2022 will be printed and brought to the meeting for review during the public hearing. Materials submitted by the applicant are available for inspection at City Hall during regular business hours and on the City's website at www.mantorville.com.

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