

<p><b>BOLTON &amp; MENK, INC.</b> Consulting Engineers &amp; Surveyors MINNESOTA PROFESSIONAL ENGINEERS AND SURVEYORS REGISTERED IN MINNESOTA AND SEVERAL OTHER STATES</p>	<p><b>WETLAND BUFFER ZONE SIGN INSTALLATION</b></p>		DATE: 07/2013
			STD. DETAIL 8-118

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.

*Dee*

NAME \_\_\_\_\_

DATE 5/18/2023 LIC. NO. 15051

REV	REVISION DESCRIPTION	DWN	APP	REV DATE
1	Comments from City	MPJ	DJJ	5/18/2023

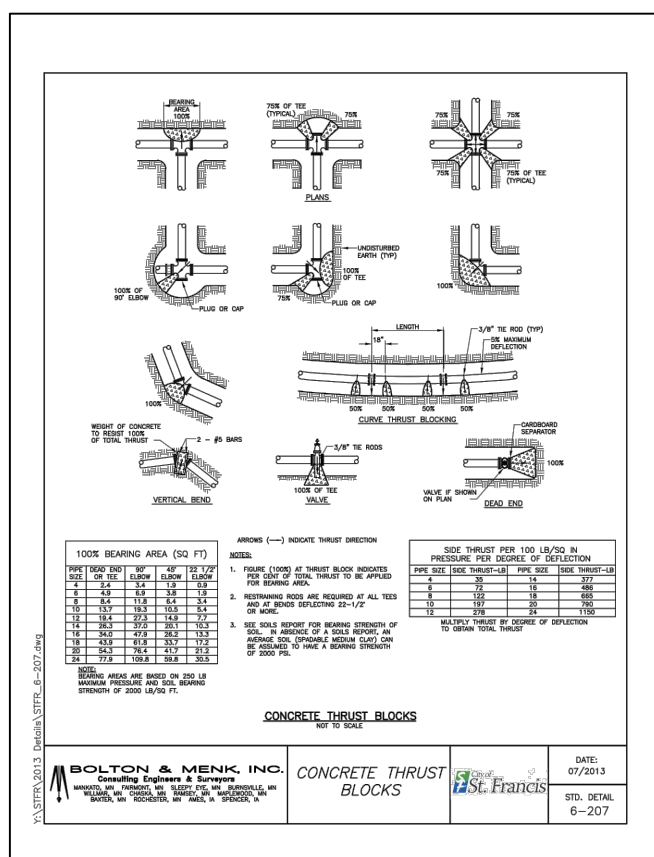
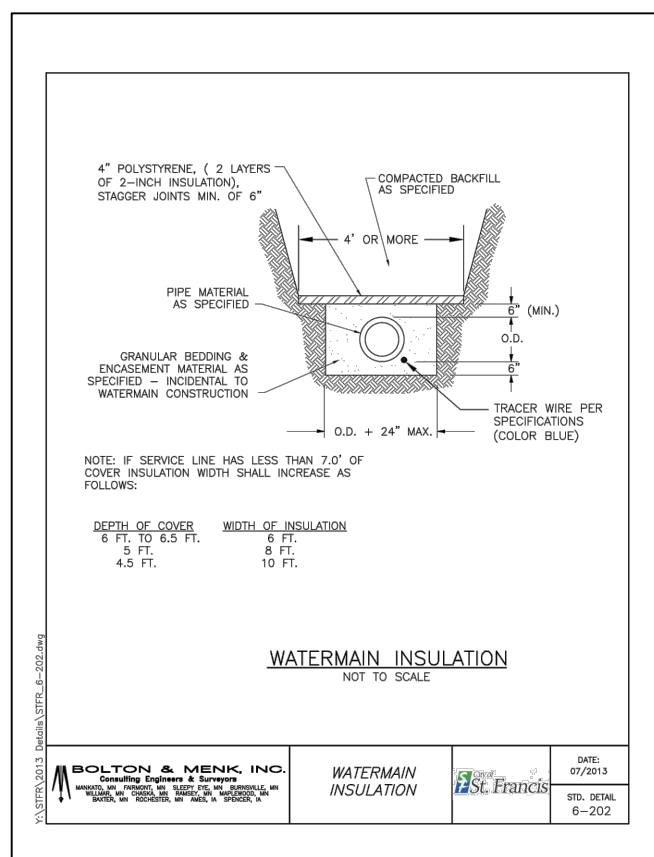
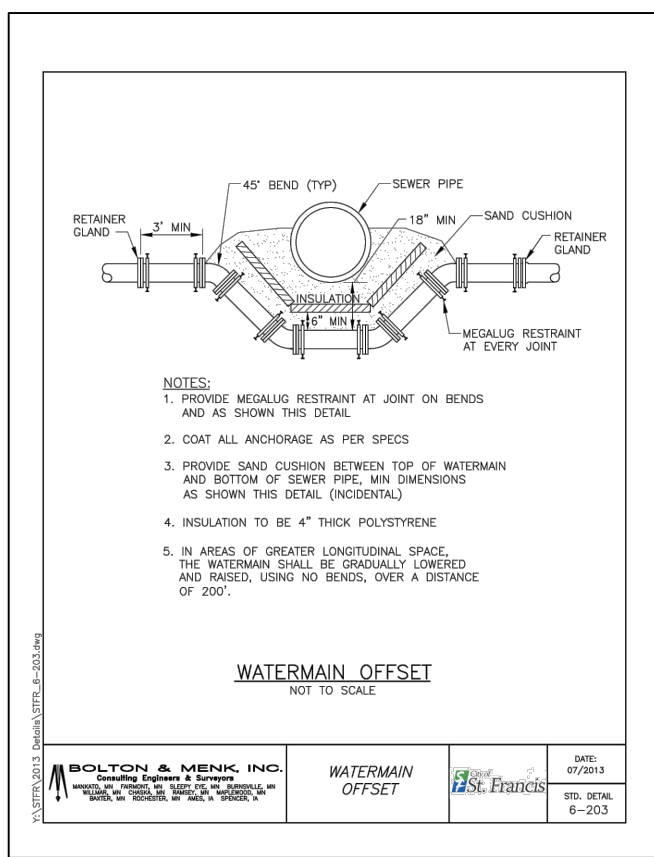
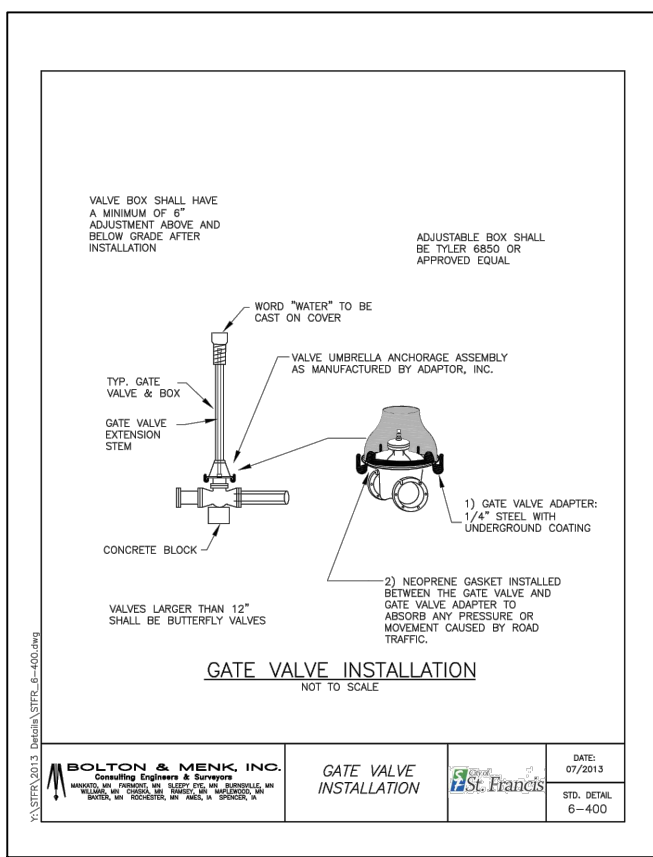
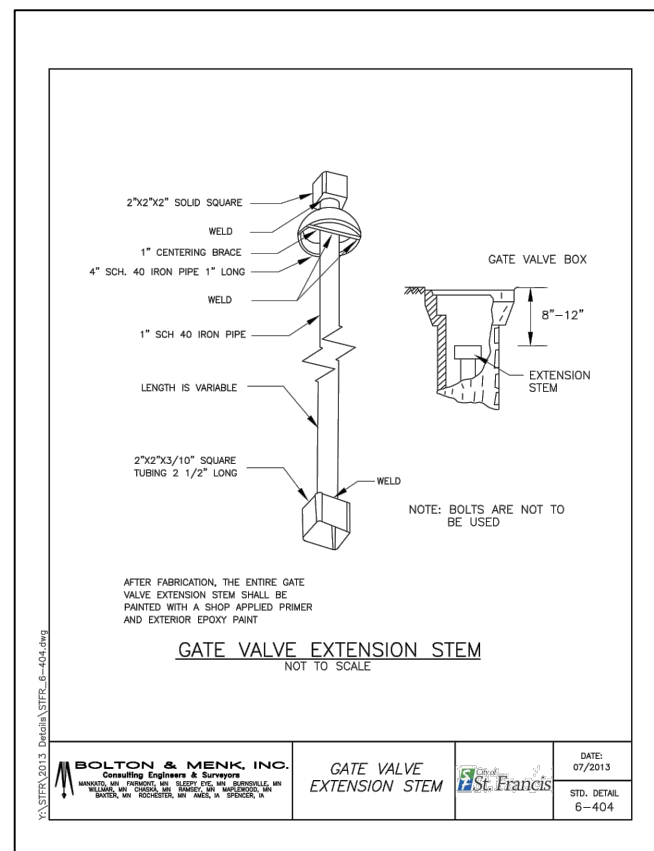
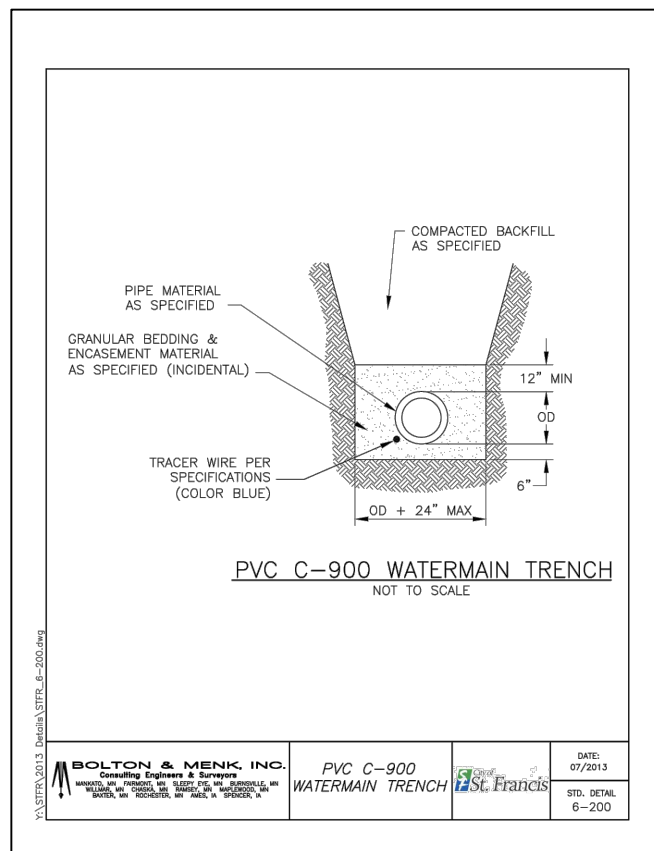
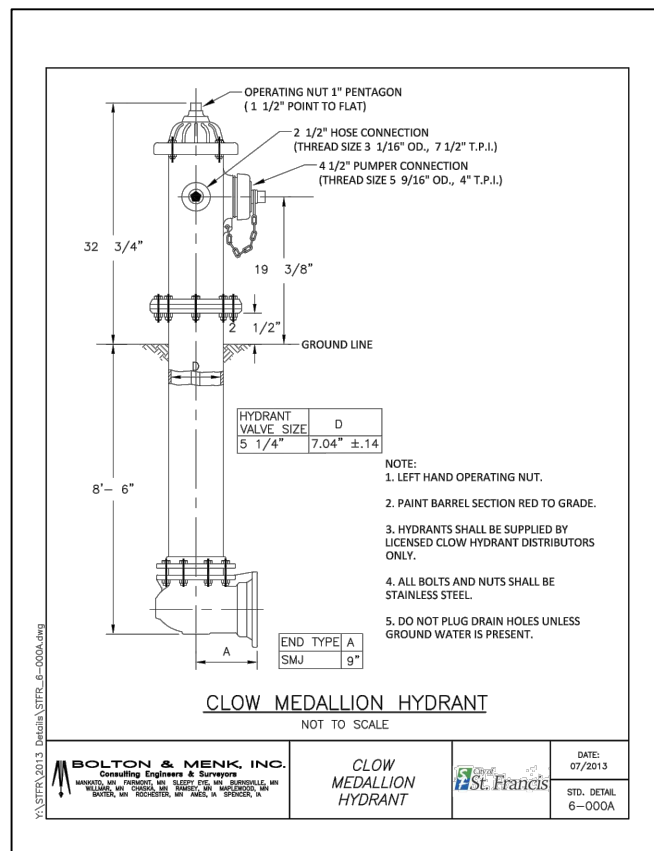
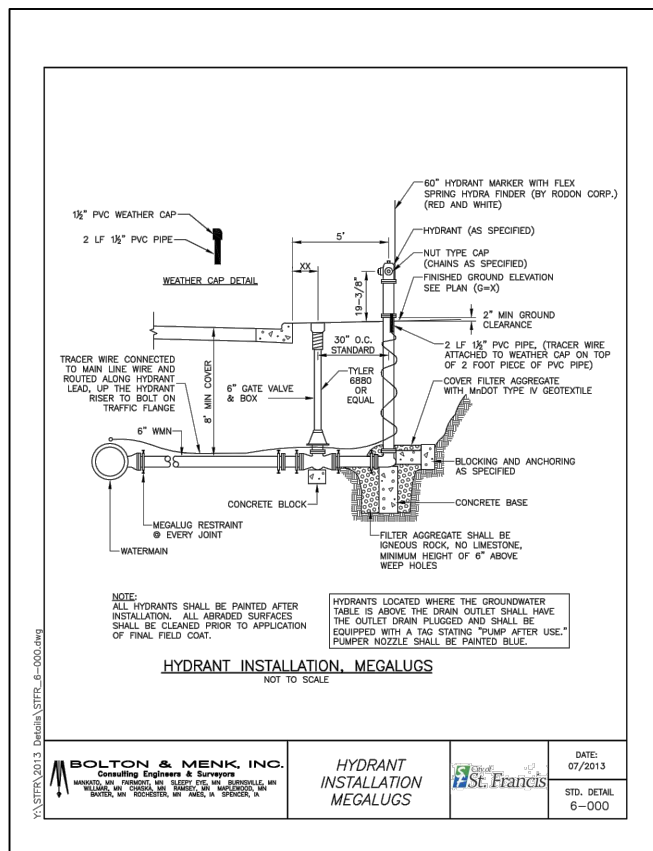
PO Box 384  
Windom, MN 56101  
(507) 832-8450

DWN BY MPJ	CHK'D MPJ	APP'D DJJ	PROJECT Turtle Ponds 6th Addition
DWG DATE 3/17/2023			CLIENT BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304
SCALE N/A			

SHEET TITLE Typical Details Site		PROJECT NO. 0093-01	SHEET NO. G-201B	REV NO. 1
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DATE 5/18/2023 LIC. NO. 15051

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REV	REVISION DESCRIPTION	DWN	APP	REV DATE

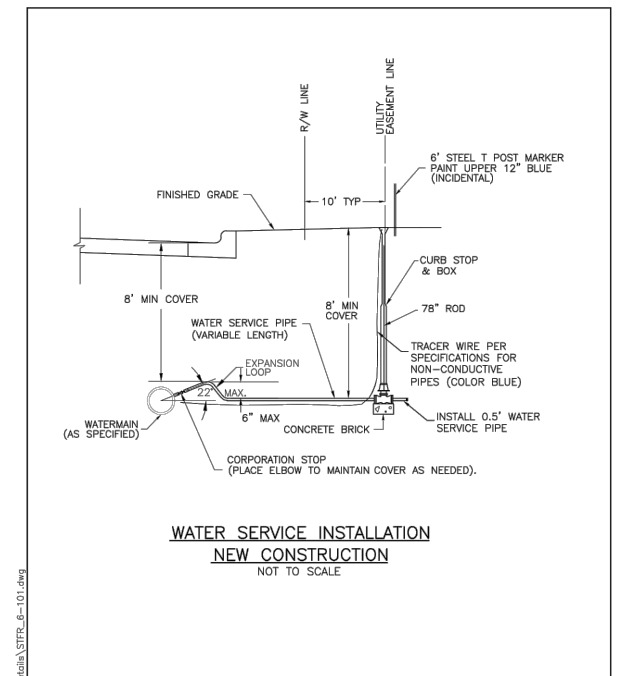


PO Box 384  
Windom, MN 56101  
(507) 832-8450

DWN BY	CHK'D	APP'D	PROJECT
MPJ	MPJ	DJJ	Turtle Ponds 6th Addition
DWG DATE	3/17/2023		CLIENT
SCALE	N/A		BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304

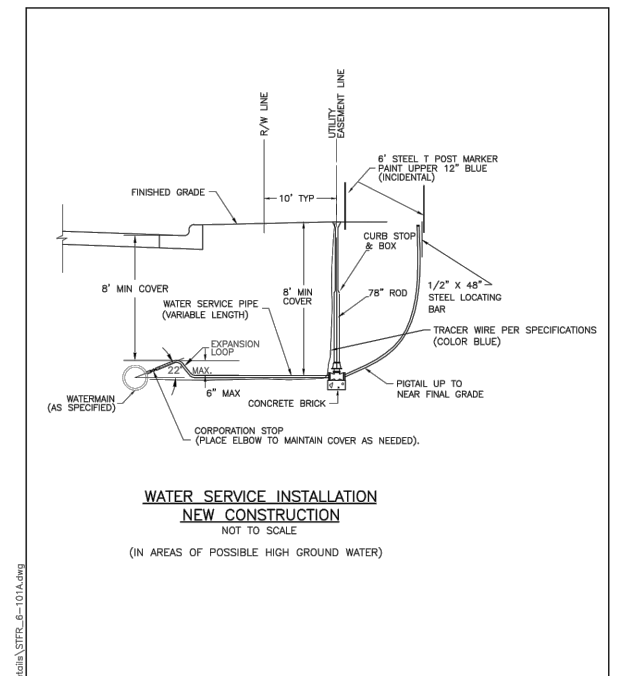
PROJECT: Turtle Ponds 6th Addition  
CLIENT: BlueWaters Companies, Inc  
17029 Vickers Street NE  
Ham Lake, MN 55304

SHEET TITLE	Typical Details Watermain	
PROJECT NO.	0093-01	SHEET NO.
	G-203A	REV NO.
		1



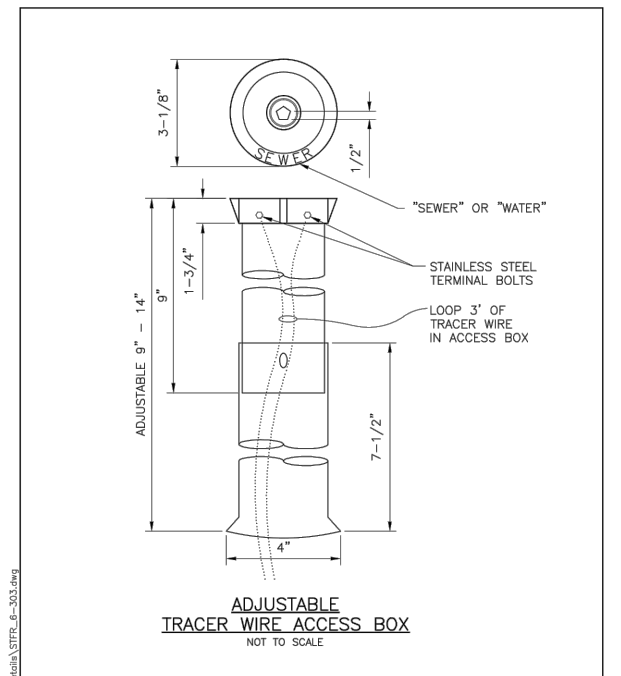
**WATER SERVICE INSTALLATION  
NEW CONSTRUCTION**  
NOT TO SCALE

<p><b>BOLTON &amp; MENK, INC.</b> Consulting Engineers &amp; Surveyors MINNESOTA PROFESSIONAL SERVICE COMPANY REGISTERED PROFESSIONAL ENGINEERS REGISTERED SURVEYORS REGISTERED LAND SURVEYORS REGISTERED CIVIL ENGINEERS REGISTERED ELECTRICAL ENGINEERS REGISTERED MECHANICAL ENGINEERS REGISTERED CHEMICAL ENGINEERS REGISTERED INDUSTRIAL ENGINEERS REGISTERED METALLURGICAL ENGINEERS REGISTERED NUCLEAR ENGINEERS REGISTERED AERONAUTICAL ENGINEERS REGISTERED AGRICULTURAL ENGINEERS REGISTERED ARCHITECTURAL ENGINEERS REGISTERED BIOLOGICAL ENGINEERS REGISTERED BIOMEDICAL ENGINEERS REGISTERED CHEMICAL ENGINEERS REGISTERED CIVIL ENGINEERS REGISTERED ELECTRICAL ENGINEERS REGISTERED ENVIRONMENTAL ENGINEERS REGISTERED FOOD ENGINEERS REGISTERED INDUSTRIAL ENGINEERS REGISTERED METALLURGICAL ENGINEERS REGISTERED NUCLEAR ENGINEERS REGISTERED AERONAUTICAL ENGINEERS REGISTERED AGRICULTURAL ENGINEERS REGISTERED ARCHITECTURAL ENGINEERS REGISTERED BIOLOGICAL ENGINEERS REGISTERED BIOMEDICAL ENGINEERS</p>	<p><b>City of St. Francis</b></p>	DATE: 07/2013
		STD. DETAIL 6-101



**WATER SERVICE INSTALLATION  
NEW CONSTRUCTION**  
NOT TO SCALE  
(IN AREAS OF POSSIBLE HIGH GROUND WATER)

<p><b>BOLTON &amp; MENK, INC.</b> Consulting Engineers &amp; Surveyors MINNESOTA PROFESSIONAL SERVICE COMPANY REGISTERED PROFESSIONAL ENGINEERS REGISTERED SURVEYORS REGISTERED LAND SURVEYORS REGISTERED CIVIL ENGINEERS REGISTERED ELECTRICAL ENGINEERS REGISTERED MECHANICAL ENGINEERS REGISTERED CHEMICAL ENGINEERS REGISTERED INDUSTRIAL ENGINEERS REGISTERED NUCLEAR ENGINEERS REGISTERED AERONAUTICAL ENGINEERS REGISTERED AGRICULTURAL ENGINEERS REGISTERED ARCHITECTURAL ENGINEERS REGISTERED BIOLOGICAL ENGINEERS REGISTERED BIOMEDICAL ENGINEERS</p>	<p><b>City of St. Francis</b></p>	DATE: 07/2013
		STD. DETAIL 6-101A



**ADJUSTABLE  
TRACER WIRE ACCESS BOX**  
NOT TO SCALE

<p><b>BOLTON &amp; MENK, INC.</b> Consulting Engineers &amp; Surveyors MINNESOTA PROFESSIONAL SERVICE COMPANY REGISTERED PROFESSIONAL ENGINEERS REGISTERED SURVEYORS REGISTERED LAND SURVEYORS REGISTERED CIVIL ENGINEERS REGISTERED ELECTRICAL ENGINEERS REGISTERED MECHANICAL ENGINEERS REGISTERED CHEMICAL ENGINEERS REGISTERED INDUSTRIAL ENGINEERS REGISTERED NUCLEAR ENGINEERS REGISTERED AERONAUTICAL ENGINEERS REGISTERED AGRICULTURAL ENGINEERS REGISTERED ARCHITECTURAL ENGINEERS REGISTERED BIOLOGICAL ENGINEERS REGISTERED BIOMEDICAL ENGINEERS</p>	<p><b>City of St. Francis</b></p>	DATE: 07/2013
		STD. DETAIL 6-303

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REV	REVISION DESCRIPTION	DWN	APP	REV DATE
1	Comments from City	MPJ	DJJ	5/18/2023

**JEG JOHNSON ENGINEERING GROUP**

PO Box 384  
Windom, MN 56101  
(507) 832-8450

DWN BY MPJ	CHK'D MPJ	APP'D DJJ
DWG DATE 3/17/2023		
SCALE N/A		

PROJECT Turtle Ponds 6th Addition	CLIENT BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304
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SHEET TITLE Typical Details Watermain	PROJECT NO. 0093-01	SHEET NO. G-203B	REV NO. 1
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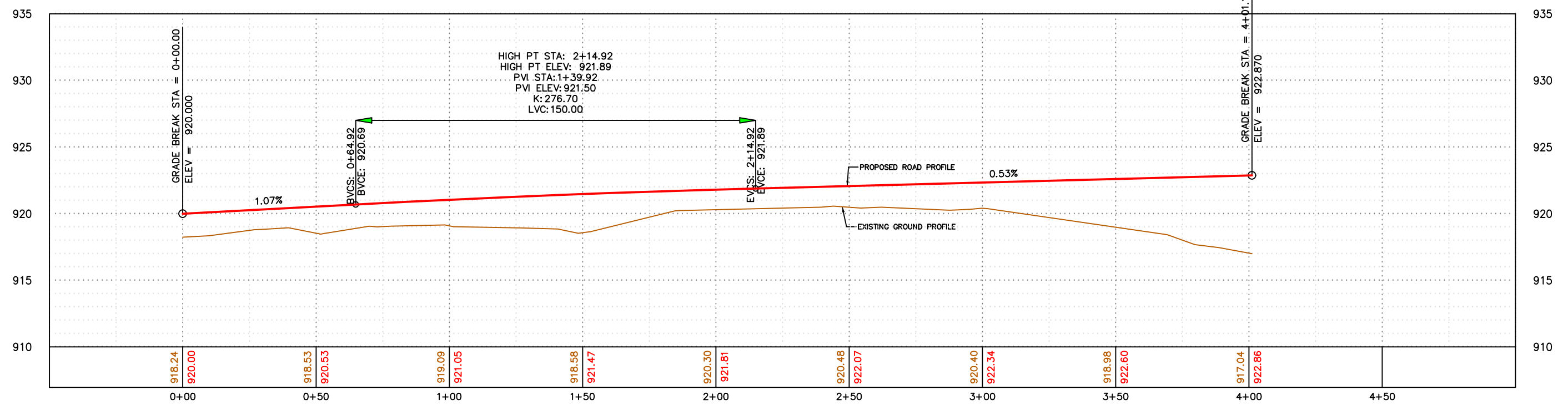




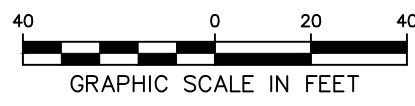
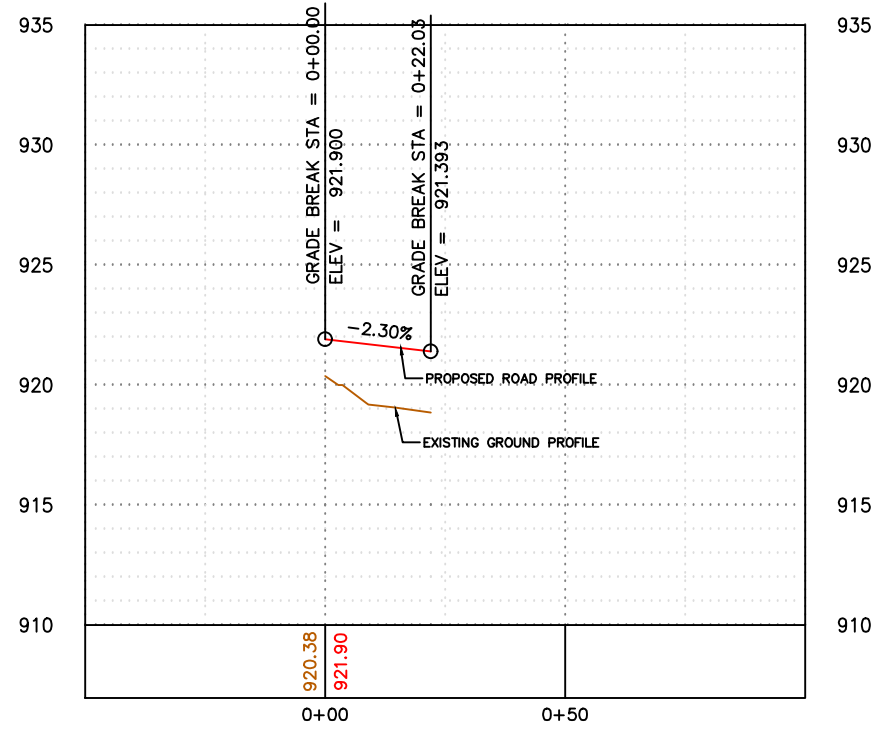


C:\Users\mpjoh\Johnson Engineering Dropbox\Johnson Engineering Group\Drafting\0093 BlueWaters Companies\01 Turtle Ponds 6th Addition\01 Turtle Ponds 6th Addition\CAD\06-23\23\Turtle Ponds 6th Addition\Profile\Profile.dwg

### Turtle Ponds Main Road PROFILE



### Turtle Ponds Connector Road PROFILE



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NAME: *[Signature]*

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PO Box 384  
Windom, MN 56101  
(507) 832-8450

DWN BY MPJ	CHK'D MPJ	APP'D DJJ
DWG DATE 3/17/2023		
SCALE 1"=40'		

PROJECT: Turtle Ponds 6th Addition

CLIENT: BlueWaters Companies, Inc  
17029 Vickers Street NE  
Ham Lake, MN 55304

SHEET TITLE Road Profile Plan		PROJECT NO. 0093-01	SHEET NO. C-105B	REV NO. 1
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**CONSTRUCTION ACTIVITY NOTES:**

**EROSION PREVENTION PRACTICES:**

Phased construction will be used to extent practical or as indicated in the plans to minimize exposed soils.

Areas not to be disturbed shall be delineated with flags, stakes, signs, silt fence, etc. prior to work beginning. The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours or connection.

Energy dissipation or other outlet treatment must be installed within 24 hours of connection.

All exposed soils must be stabilized as soon as possible but in no case later than 14 days after the construction activity has temporarily or permanently ceased.

Seed and/or sod, fertilizer, and mulch shall be placed as indicated in the plans and project specifications.

Rapid stabilization shall be of type and quantity indicated in the project specifications. Additional rapid stabilization may be necessary to minimize erosion throughout the duration of the project. Type and quantity shall be determined by the engineer or inspector prior to installation. In extreme cases, the contractor shall use any available rapid stabilization to immediately mitigate erosion, then further remedy the situation with approval by owner or engineer.

If the Contractor stockpiles material on site, he shall install the appropriated erosion control devices around the stockpile and perform the best management practices possible to avoid erosion from the stockpile.

Temporary (or permanent) sedimentation ponds are required for areas > 10 acres of disturbed soils draining to one point.

**SEDIMENT CONTROL PRACTICES:**

Installation of silt fence and all other down gradient sediment protection measures shall be completed prior to commencement of upstream land disturbing activities.

Silt fence shall be installed along constant contours with continuous lengths not to exceed 600 feet. As indicated on plans, silt fence will be periodically broken and hooked upslope in "J-hook" or "smile" patterns to provide ponding and slow runoff.

No unbroken slope lengths greater than 75 feet are permitted when slope is 3:1 or greater. Slope shall be broken with silt fence or biorolls as indicated on plans.

The timing and installation of sediment control practices may be adjusted to accommodate short term activities, but sediment control practices must be installed before the next precipitation event even if the activity is not complete.

Install ditch checks (Biorolls) as shown in plan. Ditch checks to be installed after roadway is removed and left in place until final restoration is established.

Vehicle tracking to be minimized to all practical extents. All eroded material that leaves the construction zone shall be collected by the contractor and returned to the site of the contractor's expense.

All stock piles shall be surrounded by silt fence and seeded with temporary seed and mulch. Locations of stockpiles and the associated BMPs shall be shown on the site plans.

All site storm sewer inlets, as well as off site downstream inlets with potential to receive sediment, shall be protected with approved established inlet protection may be removed in winter, if the project has an approval letter from jurisdictional authority or can produce it within 72 hours.

Sediment shall be removed from surface waters immediately upon discovery and in no case later than 7 days after discovery.

Infiltration areas shall be inspected routinely to ensure that no sediment from ongoing construction activities has reached the infiltration area and these areas shall remain protected from compaction due to construction equipment.

**TEMPORARY SEDIMENTATION BASINS & DEWATERING:**

Temporary sedimentation basins are required prior to runoff leaving the construction site or entering surface waters when 10 or more acres or disturbed soils drain to a common location. The basin must provide 3,600 cubic feet of storage below the outlet per acre drained. If hydraulic calculations are available, the temporary sedimentation basin must provide a storage volume equivalent to the 2-year, 24-hour storm, but in no case less than 1800 cubic feet per acre drained. The temporary sedimentation basin must be constructed and made operational concurrent with the start of soil disturbance up gradient of the pond. The temporary sedimentation basin shall be designed to prevent short circuiting. The outfall shall be designed to remove floatable debris, allow for complete drawdown of the pond, and have energy dissipation. The emergency spillway shall be stabilized.

All dewatering on site during construction must be routed to temporary sedimentation basins.

Temporary sedimentation basins must be drained within 48 hours of any rainfall event. If the rock filtered outlets plug or cause the pond not to drain within 48 hours, ponds are to be drained with pumps. Pump inlets should be protected with a silt fence ring and rock filter berm as shown in the details, or an approved alternative. Excessive sediment-laden water that is not properly filtered will not be permitted to discharge from site.

Dewatering practices cannot cause downstream nuisance conditions, erosion, or non-permitted wetland inundation.

When sediment level has reached 1/2 the storage volume in the temporary sedimentation basin, the basin shall be drained and sediment removed within 7 days.

**POLLUTION PREVENTION:**

All solid waste collected from the construction site must be disposed of in accordance with IADNR disposal requirements.

All hazardous material (e.g., oil, gasoline, fuel, antifreeze, paint, cleaning solvents, curing compounds, fertilizers, etc.) must be properly stored ( including secondary containment when necessary) to prevent spills, hazardous waste must be in compliance with IADNR leaks, or other discharge.

External washing areas must be limited to a defined area of the site. All runoff containing hazardous material must be properly collected and disposed of. Defined area must be contained with heavy- or super-duty silt fence. NO ENGINE DEGREASING ALLOWED ON SITE.

The contractor is responsible for monitoring air pollution and ensuring it does not exceed levels set by local, state, or federal regulations. This includes dust created by work being performed on the site. Air pollution and dust control correction is considered incidental to the unit bid prices for which work is being performed. Additional dust control measures may be required by the Engineer.

**INSPECTION & MAINTENANCE:**

The permittees must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours of a rainfall event greater than 0.5 inches in a 24 hour period.

All inspection performed during construction must be recorded and records retained on site with the SWPPP in accordance with the storm water permit. Records must include a site map showing areas of land disturbing activities and areas where activities have temporarily or permanently ceased.

Silt fence, biorolls and inlet protection devices must be maintained when non-functional or when accumulated sediment reaches 1/3 of device height.

Off site vehicle tracking to be removed within 24 hours of occurrence.

All non-functional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours of discovery, or as soon as field conditions allow access.

Maintenance and inspection record forms are located in the project specifications for reference or provided by the site inspector.

**FINAL STABILIZATION**

The permittees must submit a Notice of Termination (N.O.T.) within 30 days of final stabilization or transferring permit responsibility to another owner or operator.

The Contractor must ensure final stabilization of the site. Final stabilization shall include a minimum of 70% vegetation establishment (100% stabilized) on all previous areas.

All temporary erosion control measures and BMPs must be removed as part of the final site stabilization, unless directed otherwise by owner or engineer.

**IMPLEMENTATION SCHEDULE & PHASING:**

- 1) Install silt fence, biorolls, and rock entrances.
- 2) Excavate for detention pond.
- 3) Construct building pads, roads, and parking.
- 4) Stock pile excavated material as needed.
- 5) Fill low areas with fill material.
- 6) Stabilize fill, and begin construction of buildings.
- 7) Add additional temporary BMPs as necessary during construction based on inspection reports.
- 8) Ensure final stabilization measures are complete.
- 9) Remove erosion and sediment control BMPs.
- 10) Submit Notice of Termination (NOT) to MPCA within 30 days of final stabilization.

**RECORD RETENTION:**

The SWPPP, all changes to it, and inspections and maintenance records must be kept at the site during construction. All owner(s) must retain the following for 3 years after submittal of NOT:

- 1) SWPPP;
- 2) Any other permits required for the project;
- 3) Inspection and maintenance logs;
- 4) All permanent operation and maintenance agreements for surface water facilities;
- 5) All design calculations for temporary and permanent storm water management.

**PLAN SHEETS:**

Plan sheets SWPPP-101 to SWPPP-105 are also considered a part of the SWPPP for this project.

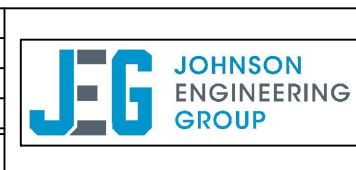
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*Dee*

NAME \_\_\_\_\_

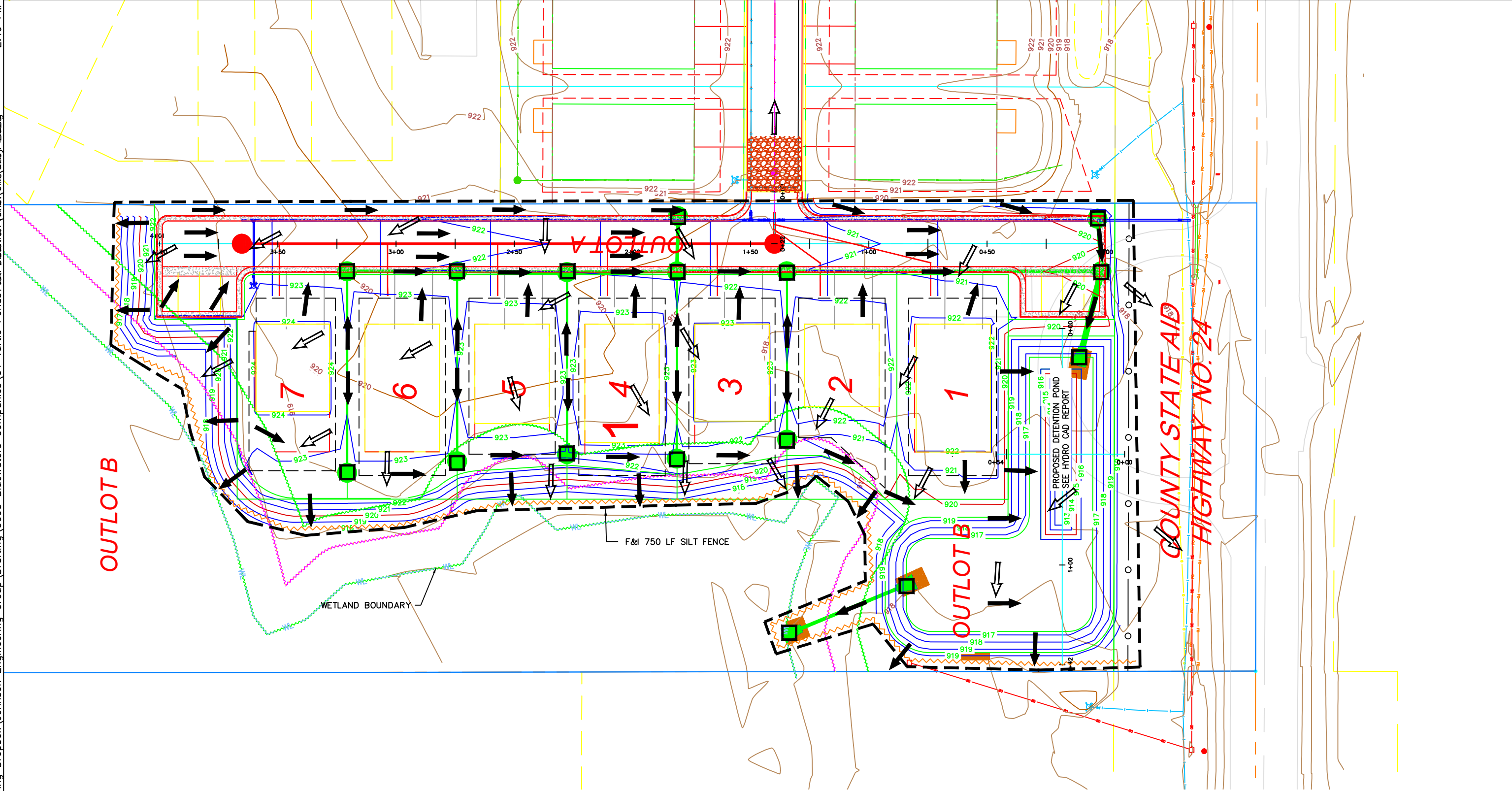
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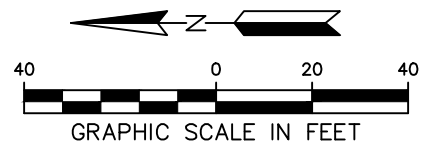
PO Box 384  
 Windom, MN 56101  
 (507) 832-8450

DWN BY MPJ	CHK'D MPJ	APP'D DJJ	PROJECT Turtle Ponds 6th Addition	SHEET TITLE SWPPP Notes
DWG DATE 3/17/2023	CLIENT BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304		PROJECT NO. 0093-01	SHEET NO. SW-102
SCALE N/A			REV NO. 1	



LEGEND	
	= SILT FENCE
	= TEMPORARY ROCK CONSTRUCTION ENTRANCE
	= LIMITS OF DISTURBANCE
	= TEMPORARY DITCH CHECK
	= CULVERT/ INLET PROTECTION
	= EXISTING FLOW ARROW
	= PROPOSED FLOW ARROW

- GENERAL NOTES:**
- 1.) ALL INLETS AND FLARED END SECTIONS, BOTH EXISTING AND PROPOSED (ONSITE AND OFFSITE) WITHIN 200' OF THE CONSTRUCTION DISTURBANCE SHALL HAVE CULVERT PROTECTION IN PLACE PRIOR TO DISTURBANCE AND AFTER CONSTRUCTION.
  - 2.) CONSTRUCT ROCK CONSTRUCTION ENTRANCES AS NECESSARY THROUGHOUT THE PROJECT.
  - 3.) THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF THE ROCK CONSTRUCTION ENTRANCES AT END OF THE PROJECT.
  - 4.) SEED ALL DISBURBED AREAS WITH SEED MIXTURE 280 AND TYPE 3 MULCH UNLESS INDICATED OTHERWISE ON THE PLAN.
  - 5.) ALL SEED NOT HYDRO APPLIED SHALL BE DISK ANCHORED.



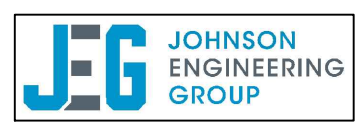
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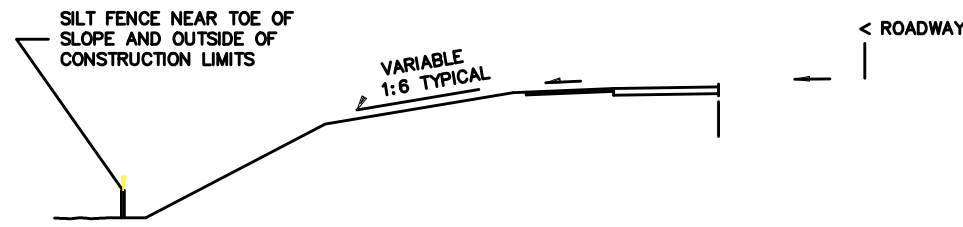
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DWN BY	CHK'D	APP'D
MPJ	MPJ	DJJ
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SCALE	1"=40'	

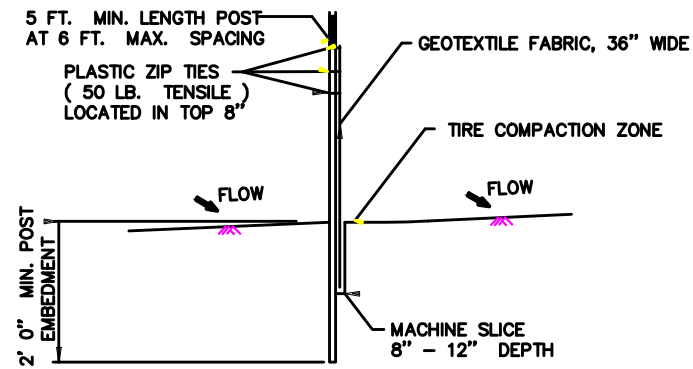
PROJECT	Turtle Ponds 6th Addition
CLIENT	BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304

SHEET TITLE	SWPPP Site Plan		
PROJECT NO.	SHEET NO.	REV NO.	
0093-01	SW-103	1	

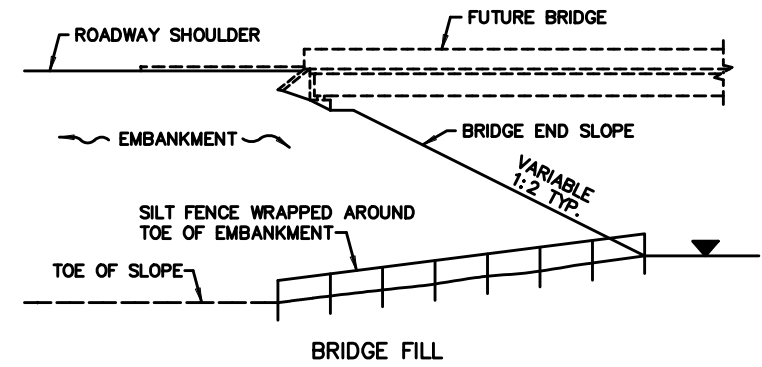




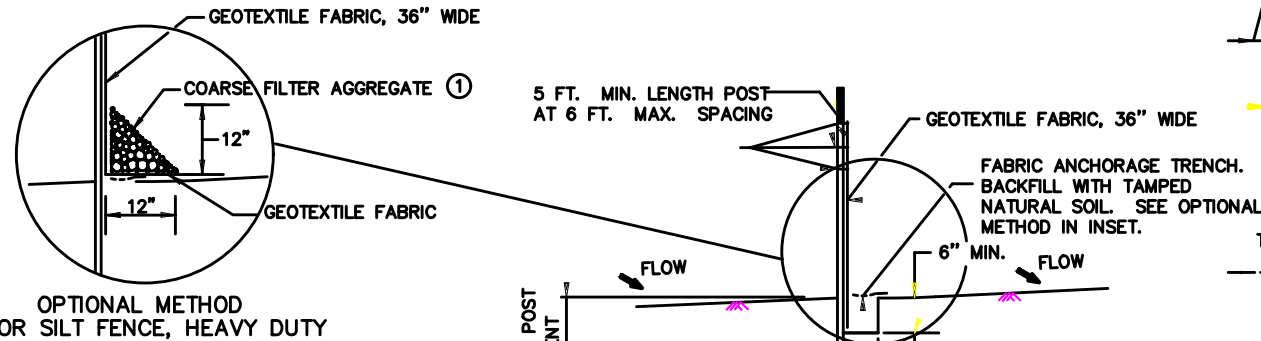
LOCATION OF SILT FENCE AT TOE OF ROADWAY EMBANKMENT



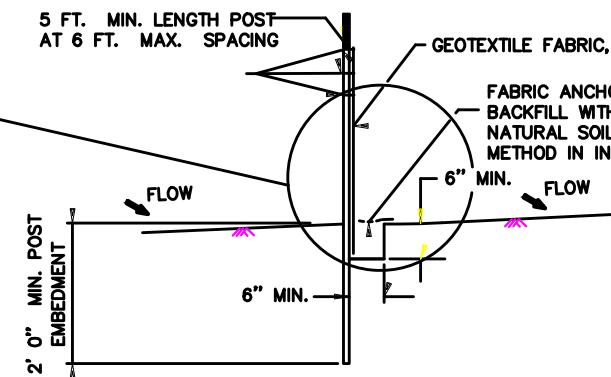
SILT FENCE, MACHINE SLICED  
DESIGN GUIDELINES:  
TO PROTECT AREAS FROM SHEET FLOW.  
MAXIMUM CONTRIBUTING AREA: 1 ACRE.



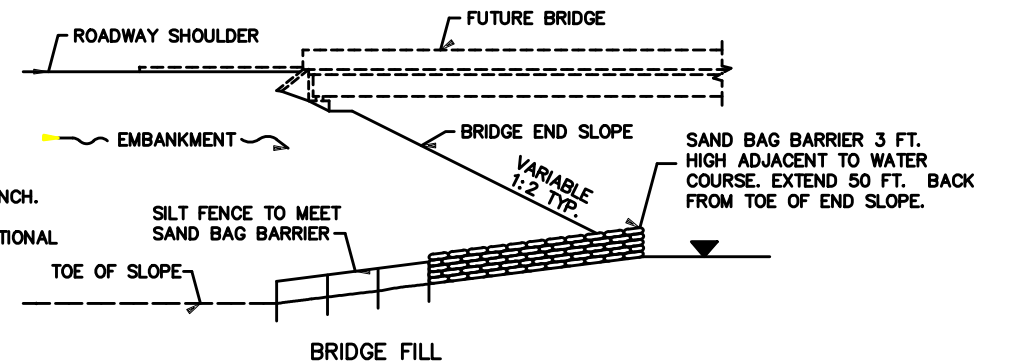
DESIGN GUIDELINES:  
WATER COURSE FLOW VELOCITY: STAGNANT  
CONTRIBUTING SLOPE AREA: 1/2 ACRE



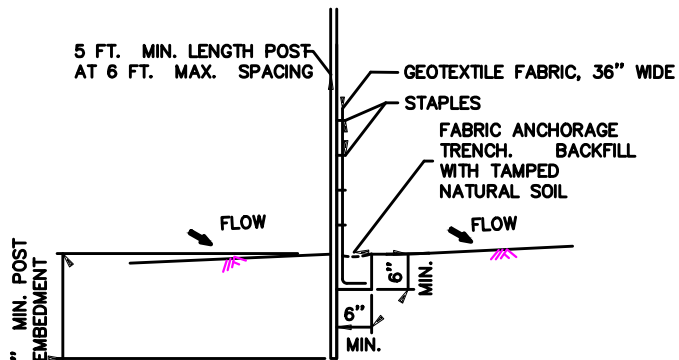
OPTIONAL METHOD FOR SILT FENCE, HEAVY DUTY



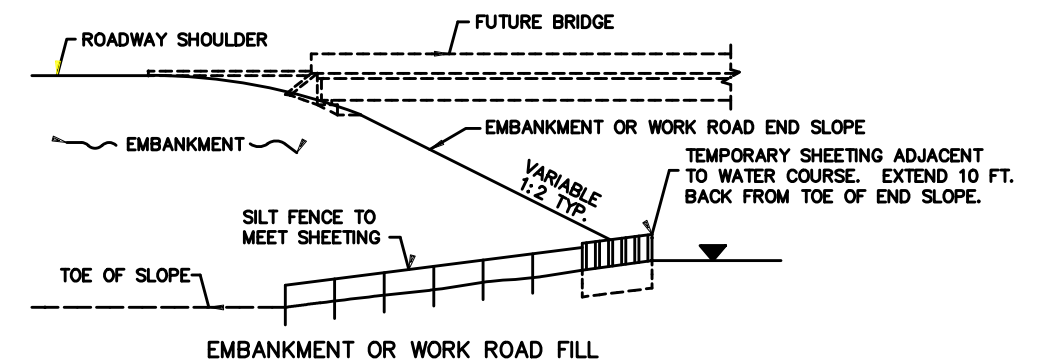
SILT FENCE, HEAVY DUTY (HAND INSTALLED)  
DESIGN GUIDELINES:  
TO PROTECT AREAS FROM SHEET FLOW.  
MAXIMUM CONTRIBUTING AREA: 1 ACRE.



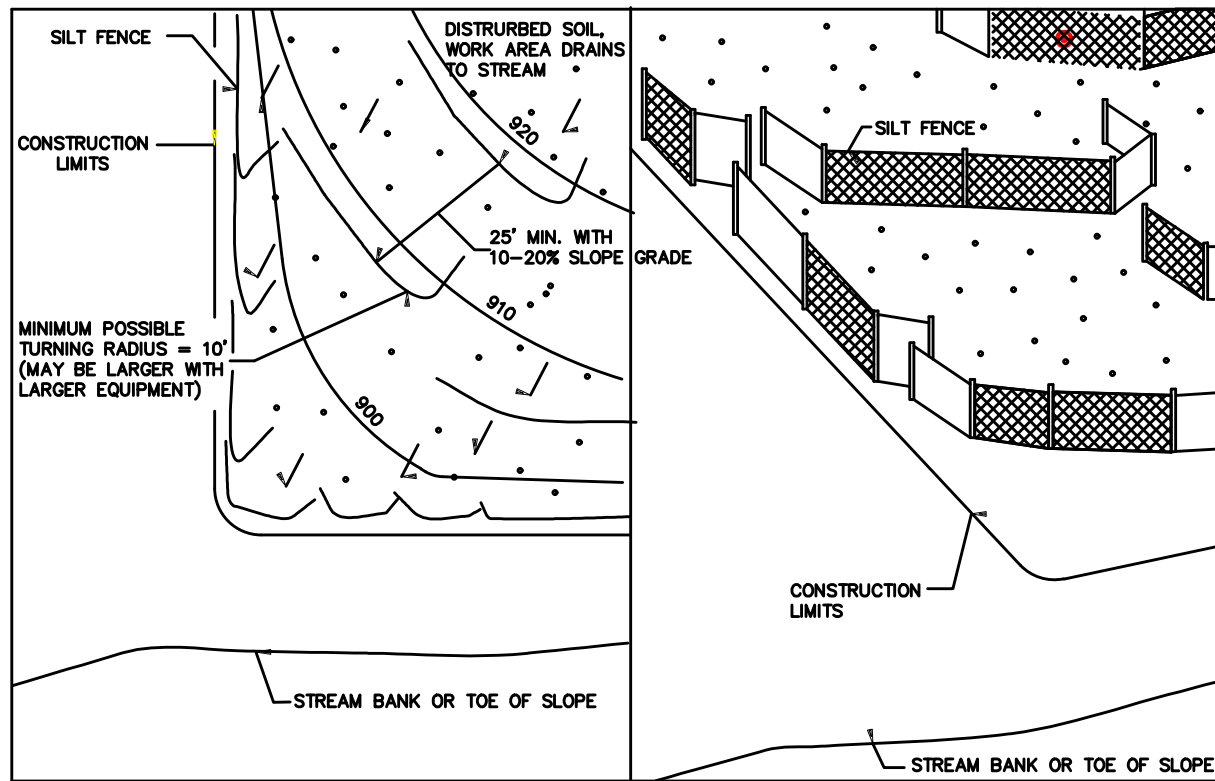
DESIGN GUIDELINES:  
WATER COURSE FLOW VELOCITY: 1 TO 7 FT./SEC.  
CONTRIBUTING SLOPE AREA: 1 ACRE



SILT FENCE, PREASSEMBLED  
DESIGN GUIDELINES:  
TO PROTECT AREAS FROM SHEET FLOW.  
MAXIMUM CONTRIBUTING AREA: 1 ACRE.



DESIGN GUIDELINES:  
WATER COURSE FLOW VELOCITY: 8 TO 15 FT./SEC.  
CONTRIBUTING SLOPE AREA: 3 ACRES  
SILT FENCE AT BRIDGE EMBANKMENT ADJACENT TO WATER



SILT FENCE, J-HOOK INSTALLATION

NOTES:  
SEE SPECS. 2573, 3149 & 3886.  
① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.

TEMPORARY SEDIMENT CONTROL  
SILT FENCE

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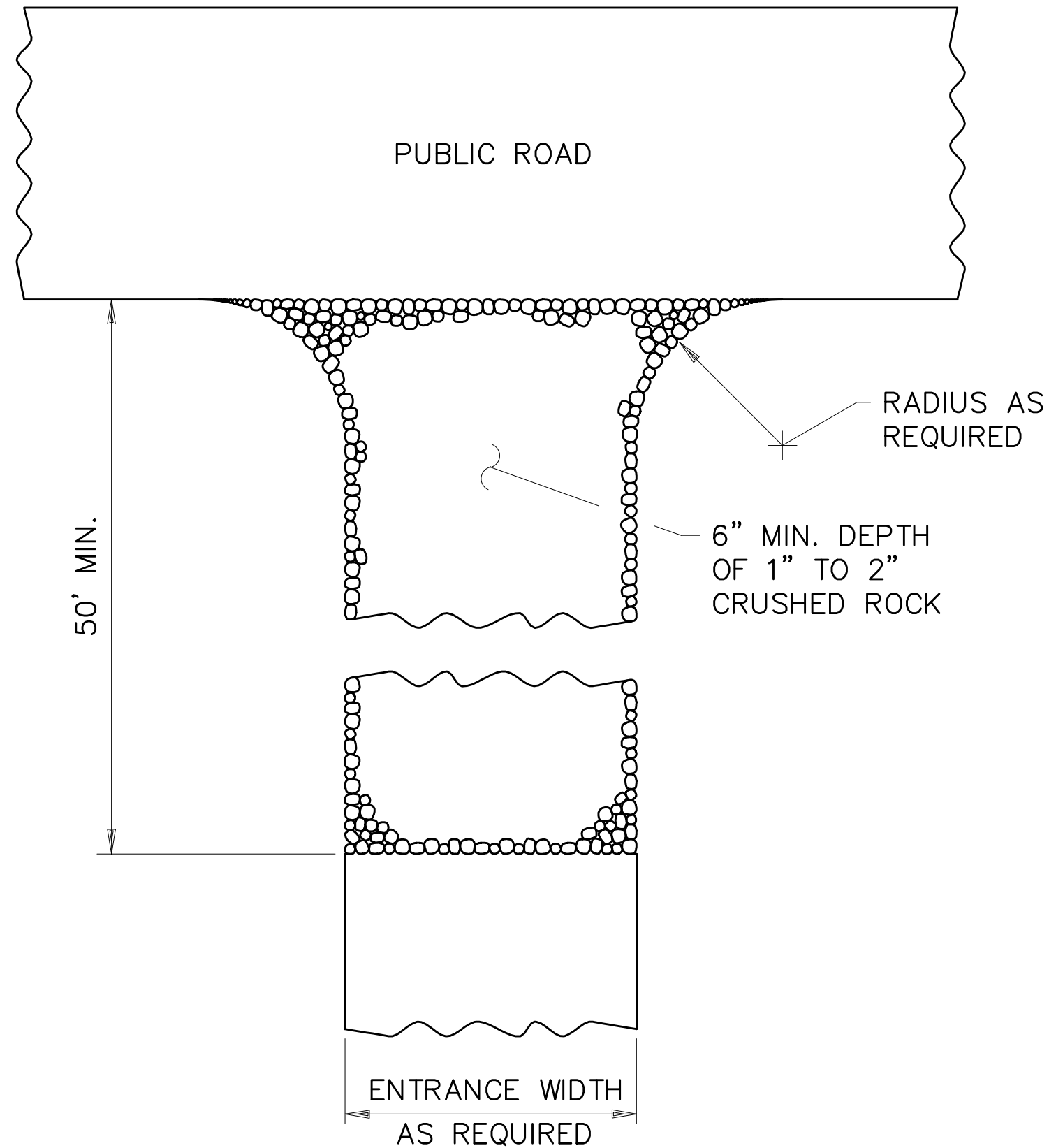
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DWN BY MPJ	CHK'D MPJ	APP'D DJJ	PROJECT Turtle Ponds 6th Addition	SHEET TITLE SWPPP Details
DWG DATE 3/17/2023			CLIENT BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304	PROJECT NO. 0093-01
SCALE N/A				SHEET NO. SW-104



### ROCK CONSTRUCTION ENTRANCE ①

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.

NAME: *D. J. Johnson*  
 DATE: 5/18/2023 LIC. NO. 15051

REV	REVISION DESCRIPTION	DWN	APP	REV DATE
1	Comments from City	MPJ	DJJ	5/18/2023



PO Box 384  
 Windom, MN 56101  
 (507) 832-8450

DWN BY MPJ	CHK'D MPJ	APP'D DJJ
DWG DATE 3/17/2023		
SCALE N/A		

PROJECT Turtle Ponds 6th Addition	CLIENT BlueWaters Companies, Inc 17029 Vickers Street NE Ham Lake, MN 55304
--------------------------------------	--

SHEET TITLE SWPPP Details		REV NO. 1
PROJECT NO. 0093-01	SHEET NO. SW-105	

**TREES FOR REMOVAL**

TREE NUMBER	DBH (IN.)	COMMON NAME	BOTANIC NAME	NOTES
103	18	Green Ash	Fraxinus pennsylvanica	
104	22	Green Ash	Fraxinus pennsylvanica	
105	57	Silver Maple	Acer saccharinum	
106	31	Crabapple	Malus	
107	23	Crabapple	Malus	
108	18	Crabapple	Malus	
109	17	Crabapple	Malus	
114	20	White Pine	Pinus strobus	
115	14	Red Pine	Pinus resinosa	
116	16	Red Pine	Pinus resinosa	
117	14	Red Pine	Pinus resinosa	
118	16	Red Pine	Pinus resinosa	
119	10	Red Pine	Pinus resinosa	
120	16	White Pine	Pinus strobus	
121	20	White Pine	Pinus strobus	
122	6	White Pine	Pinus strobus	
123	14	Red Pine	Pinus resinosa	
124	12	White Pine	Pinus strobus	
125	15	Red Pine	Pinus resinosa	
126	12	Red Pine	Pinus resinosa	
127	23	White Pine	Pinus strobus	
128	19	White Pine	Pinus strobus	
129	21	White Pine	Pinus strobus	
130	8	Red Pine	Pinus resinosa	
131	15	Red Pine	Pinus resinosa	
132	14	White Pine	Pinus strobus	
133	10	Red Pine	Pinus resinosa	
135	14	White Pine	Pinus strobus	
136	9	Red Pine	Pinus resinosa	
137	3	Red Pine	Pinus resinosa	
138	8	White Pine	Pinus strobus	
139	11	White Pine	Pinus strobus	
140	24	White Pine	Pinus strobus	
141	31	White Pine	Pinus strobus	
143	26	Northern Pin Oak	Quercus ellipsoidalis	
144	11	Northern Pin Oak	Quercus ellipsoidalis	
145	16	Box Elder	Acer negundo	
146	8	Black Cherry	Prunus serotina	
148	9	Swamp White Oak	Quercus bicolor	
149	9	Black Tupelo	Nyssa sylvatica	
151	12	Northern Pin Oak	Quercus ellipsoidalis	
152	8	Black Cherry	Prunus serotina	
153	21	American Elm	Ulmus americana	
154	9	Black Cherry	Prunus serotina	
156	13	Birch	Betula	
157	22	Red Maple	Acer rubrum	Multistem: 2
158	14	Black Cherry	Prunus serotina	
159	9	Black Cherry	Prunus serotina	
160	11	Swamp White Oak	Quercus bicolor	
161	12	Black Cherry	Prunus serotina	
162	8	Black Cherry	Prunus serotina	
163	9	Black Cherry	Prunus serotina	
164	22	Black Cherry	Prunus serotina	
165	17	Northern Pin Oak	Quercus ellipsoidalis	
166	8	Black Cherry	Prunus serotina	
167	27	Black Cherry	Prunus serotina	
168	22	Northern Pin Oak	Quercus ellipsoidalis	
169	8	Northern Pin Oak	Quercus ellipsoidalis	
170	9	Northern Pin Oak	Quercus ellipsoidalis	
171	8	Black Cherry	Prunus serotina	
172	13	Sugar Maple	Acer saccharum	
175	8	Northern Pin Oak	Quercus ellipsoidalis	
176	12	Swamp White Oak	Quercus bicolor	
179	28	Red Maple	Acer rubrum	
180	8	Birch	Betula	
187	8	Birch	Betula	
188	9	Birch	Betula	
189	8	Birch	Betula	
190	10	Sugar Maple	Acer saccharum	

TREE NUMBER	DBH (IN.)	COMMON NAME	BOTANIC NAME	NOTES
191	10	Birch	Betula	
192	10	Birch	Betula	
193	8	Birch	Betula	
194	8	Sugar Maple	Acer saccharum	
195	10	Birch	Betula	
196	10	Birch	Betula	
197	10	Birch	Betula	
199	9	Birch	Betula	
200	9	Birch	Betula	
208	11	Birch	Betula	
209	8	Birch	Betula	
210	9	Birch	Betula	
211	8	Birch	Betula	
212	10	Birch	Betula	
218	8	Birch	Betula	
221	8	Birch	Betula	
222	29	White Mulberry	Morus alba	Multistem: 3
223	9	Birch	Betula	
224	8	Birch	Betula	
225	9	Birch	Betula	
226	14	Birch	Betula	Multistem: 2

TOTAL TREES: 90 TOTAL DBH: 1,248"

**TREES FOR PRESERVATION**

TREE NUMBER	DBH (IN.)	COMMON NAME	BOTANIC NAME	NOTES
101	12	Aspen	Populus tremuloides	
110	24	Crabapple	Malus	
111	11	Crabapple	Malus	
112	16	Silver Maple	Acer saccharinum	
113	40	White Pine	Pinus strobus	
142	24	Northern Pin Oak	Quercus ellipsoidalis	
155	11	Black Cherry	Prunus serotina	Multistem: 2
174	9	Northern Pin Oak	Quercus ellipsoidalis	
177	8	Birch	Betula	
178	10	Birch	Betula	
182	8	Birch	Betula	
183	10	Birch	Betula	
184	19	Birch	Betula	
185	9	Birch	Betula	
186	8	Birch	Betula	
198	12	Birch	Betula	
201	12	Birch	Betula	
202	11	Birch	Betula	Multistem: 2
203	8	Birch	Betula	
204	8	Birch	Betula	
205	8	Birch	Betula	
206	9	Red Maple	Acer rubrum	
207	10	Red Maple	Acer rubrum	
213	26	Northern Pin Oak	Quercus ellipsoidalis	
214	9	Birch	Betula	
215	10	Birch	Betula	
216	9	Birch	Betula	
217	8	Birch	Betula	Multistem: 3
219	8	Birch	Betula	
220	16	Birch	Betula	

TOTAL TREES: 30 TOTAL DBH: 383"



P.O. BOX 448  
VICTORIA, MN 55386  
PHONE: (952) 261-9900  
WWW.MIDWESTWETLANDS.COM

CERTIFICATION:  
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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Lucius Jonett*  
LUCIUS JONETT

LICENSE NO.: 52856

DATE: 05/17/2023

SUB CONSULTANT:

DATE	DESCRIPTION	ISSUE NO.
01/18/2023	PRELIMINARY SUBMITTAL	0
03/16/2023	SINGLE FAMILY LAYOUT REVISION	1
04/27/2023	REVISIONS PER CITY COMMENT	2
05/17/2023	REVISIONS PER CITY COMMENT	3

**TURTLE PONDS  
6TH ADDITION**  
ST. FRANCIS, MN

PROJECT TITLE:

CLIENT:

**JOHNSON  
ENGINEERING  
GROUP**  
PO BOX 384  
WINDOM, MN 56101  
PHONE: 507-822-1735  
WWW.JOHNSONENGRP.COM

PROJECT NO.: 0021-01

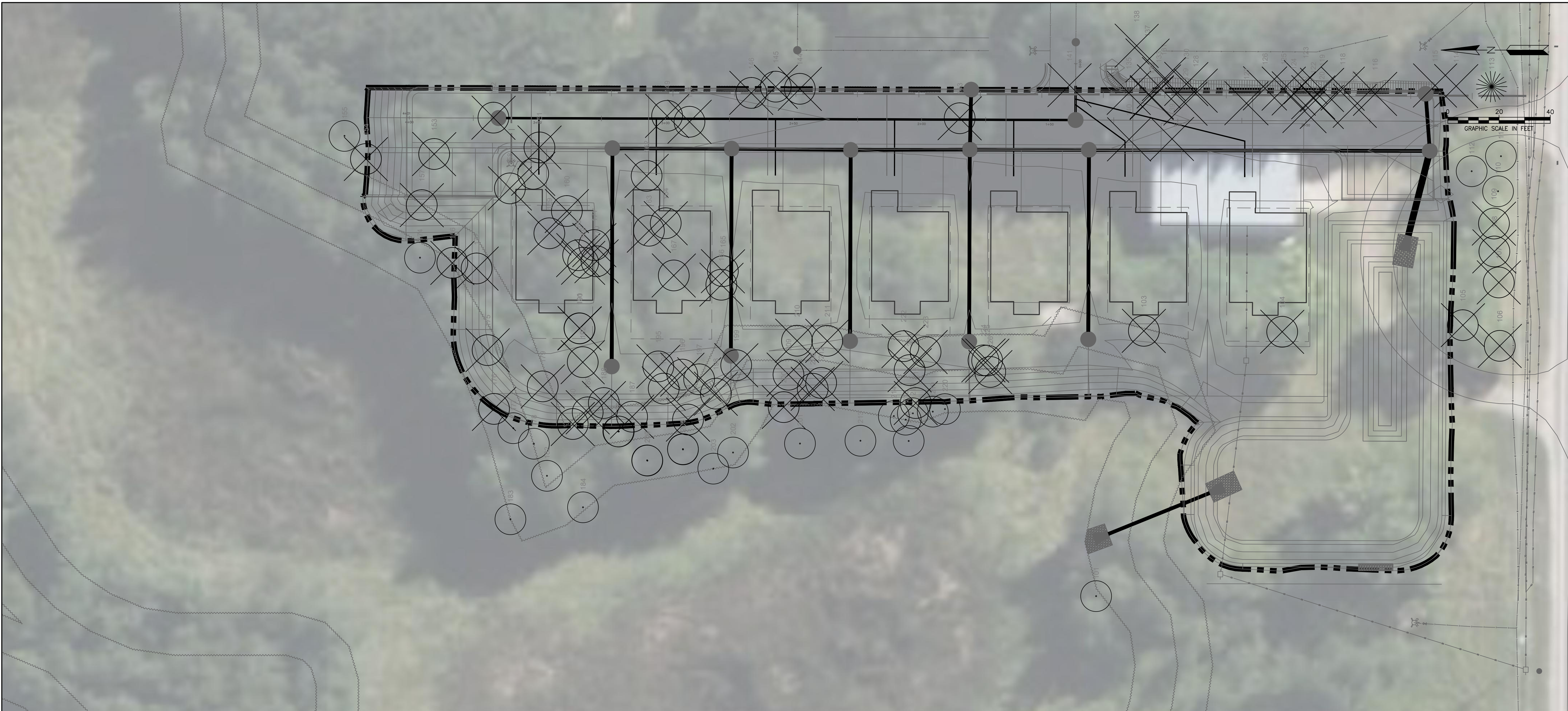
DWN BY: PAG    CHKD BY: LNJ    APPD BY: LNJ

ISSUE DATE: 05-17-2023

ISSUE NO.: 3

SHEET TITLE:  
**TREE SURVEY**

SHEET NO.:  
**L-100**



--- GRADING LIMITS

**PRESERVATION LEGEND**

- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING CONIFEROUS TREE TO REMAIN

**REMOVAL LEGEND**

- EXISTING DECIDUOUS TREE TO BE REMOVED
- EXISTING CONIFEROUS TREE TO BE REMOVED

**GENERAL NOTE**

HOUSES AND DRIVEWAYS SHOWN ARE FOR SCHEMATIC PURPOSES AND MAY ADJUST BASED ON FINAL HOUSE OPTION CHOSEN FOR THE LOT

**WARNING:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

**GOPHER STATE ONE CALL**

TWIN CITY AREA: 651-454-0002  
TOLL FREE 1-800-252-1166

**MIDWEST WETLAND**  
*improvements*

P.O. BOX 448  
VICTORIA, MN 55386  
PHONE: (952) 261-9990  
WWW.MIDWESTWETLANDS.COM

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LUCIUS JONETT

LICENSE NO.: 52856

DATE: 05/17/2023

SUB CONSULTANT:

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05/17/2023	REVISIONS PER CITY COMMENT	3

**TURTLE PONDS  
6TH ADDITION**  
ST. FRANCIS, MN

PROJECT TITLE:

CLIENT:

**JOHNSON ENGINEERING GROUP**  
PO BOX 384  
WINDOM, MN 56101  
PHONE: 507-822-1735  
WWW.JOHNSONENGR.COM

PROJECT NO.: 0021-01

DWN BY: PAG    CHKD BY: LNJ    APPD BY: LNJ

ISSUE DATE: 05-17-2023

ISSUE NO.: 3

SHEET TITLE:  
**TREE PRESERVATION PLAN**

SHEET NO.:  
**L-101**

CERTIFICATION:  
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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

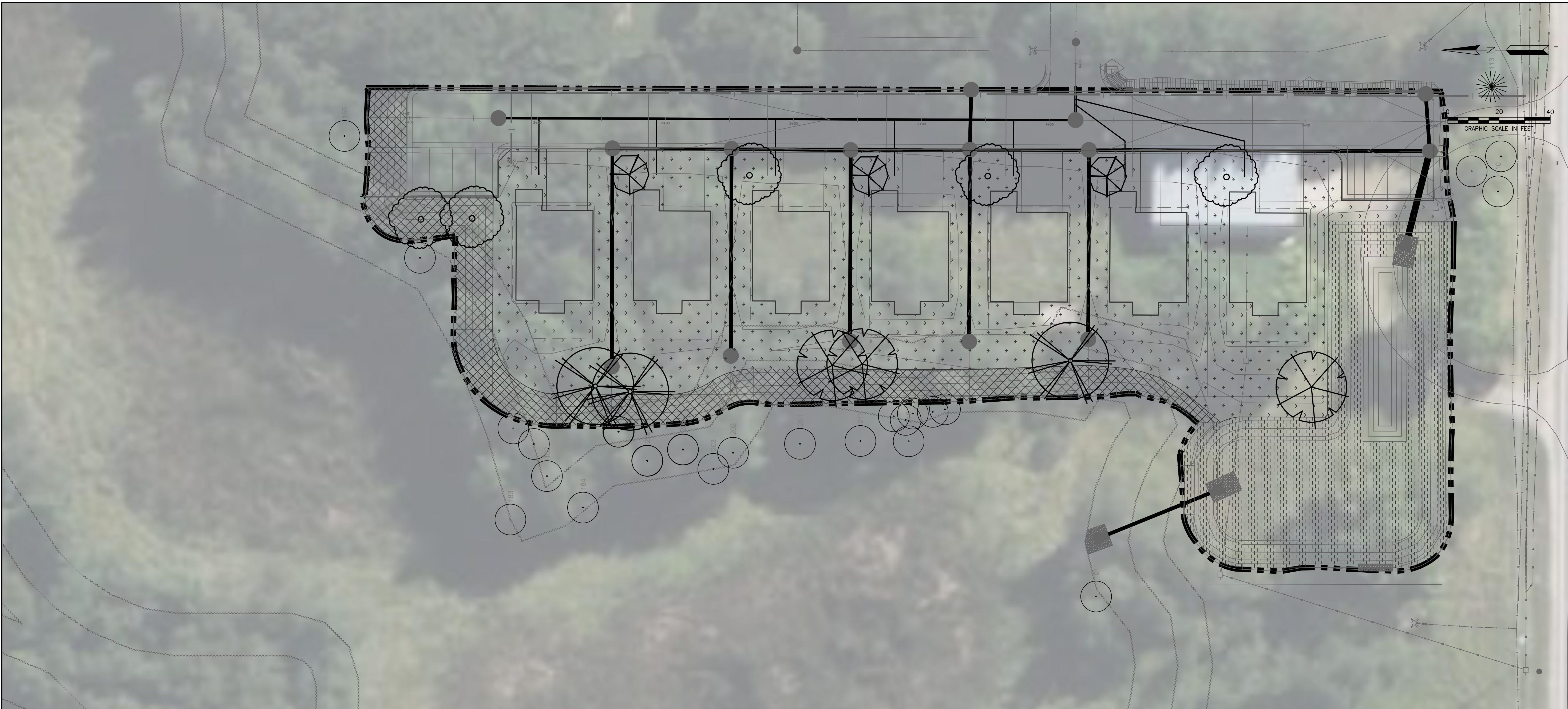
*Lucius Jonett*  
LUCIUS JONETT

LICENSE NO.: 52856

DATE: 05/17/2023

SUB CONSULTANT:

DATE	DESCRIPTION	ISSUE NO.
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05/17/2023	REVISIONS PER CITY COMMENT	3



**PLANT SCHEDULE**

SYMBOL	QTY.	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING O.C.	MATURE DIMENSIONS
<b>DECIDUOUS TREES</b>						
11						
REO	5	Ironwood	<i>Ostrya virginiana</i>	2" BB	AS SHOWN	H 25-40' W 20'-30'
RVB	3	River Birch	<i>Betula nigra</i>	2" BB	AS SHOWN	H 40-60' W 30'-40'
QUA	3	Quaking Aspen	<i>Populus tremuloides</i>	2" BB	AS SHOWN	H 25-40' W 20'-30'
<b>ORNAMENTAL TREES</b>						
3						
ALS	3	Serviceberry	<i>Amelanchier</i>	2" BB	AS SHOWN	H 15-25' W 15'-25'

**GENERAL NOTE**

HOUSES AND DRIVEWAYS SHOWN ARE FOR SCHEMATIC PURPOSES AND MAY ADJUST BASED ON FINAL HOUSE OPTION CHOSEN FOR THE LOT

**WARNING:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

**GOPHER STATE ONE CALL**

TWIN CITY AREA: 651-454-0002  
TOLL FREE 1-800-252-1166

**LANDSCAPE REQUIREMENTS**

SEC 10-73-04 C.1 A MINIMUM PLANTING REQUIREMENTS - NOTES  
1. SINGLE- AND TWO-UNIT RESIDENTIAL. ALL NEW SINGLE- OR TWO-UNIT UNITS SHALL FOLLOW THE SODDING AND GROUND COVER REQUIREMENTS FOUND IN ITEM D (10-73.D), AND SHALL PLANT A MINIMUM OF TWO (2) DECIDUOUS TREES PER DWELLING UNIT, OF WHICH A MINIMUM OF ONE (1) IN TOTAL SHALL BE PLACED IN THE FRONT YARD.

SEC 10-73-04 D SODDING AND GROUND COVER  
1. ALL OPEN AREAS OF THE SITE NOT OCCUPIED BY BUILDING, PAVEMENT, PONDING, OR LANDSCAPING PLANTING SHALL BE EITHER SEEDED OR SODDED.  
2. THE PROPERTY OWNER SHALL ASSURE THAT THE FRONT, SIDE, AND REAR YARDS OF EACH LOT ARE PROPERLY GRADED TO ALLOW FOR PROPER DRAINAGE AND MAINTENANCE. FOUR (4) INCHES OF TOP SOIL SHALL BE UNIFORMLY ADDED. SOD SHALL BE LAID TO COMPLETE THE FRONT YARD (INCLUDING RIGHT-OF-WAY), AND SEEDING OR SODDING HAS BEEN ADDED TO THE REMAINDER OF THE DISTURBED AREA OF THE LOT. SEEDING MUST EITHER BE PROTECTED WITH A HYDRO-MULCH BINDER OR BIODEGRADABLE RESTORATION BLANKETING. SEEDING WILL BE ALLOWED IN THE FRONT YARD ONLY IF A SPRINKLER SYSTEM IS ALSO INSTALLED.

**PROJECT MINIMUM PLANTING CALCULATIONS**

7 SINGLE-UNIT RESIDENCES X 2 DECIDUOUS TREES PER UNIT = 14 NEW DECIDUOUS TREES

**CITY OF ST. FRANCIS DESIGN STANDARDS AND CRITERIA**

- ALL BUILDINGS SHALL HAVE AT LEAST ONE (1) EXTERIOR WATER SPIGOT PER 2,000 SQUARE FOOT OF BUILDING FOUNDATION OR AN IRRIGATION SYSTEM TO ENSURE THAT LANDSCAPE MAINTENANCE CAN BE ACCOMPLISHED. NON-RESIDENTIAL DEVELOPMENTS WITH A BUILDING FOOTPRINT OF MORE THAN 7,500 SQUARE FEET AND RESIDENTIAL DEVELOPMENTS (EXCLUDING SINGLE UNIT HOMES) WITH A BUILDING FOOTPRINT OF MORE THAN 4,000 SQUARE FEET ARE REQUIRED TO HAVE AN IRRIGATION SYSTEM.

**CITY OF ST. FRANCIS PLANTING NOTES**

- PRIOR TO TREE STAKING AND PLANTING OPERATIONS CONTRACTOR MUST CONTACT GOPHER STATE ONE CALL (WWW.GOPHERSTATEONECALL.COM OR 811) TO VERIFY UNDERGROUND UTILITIES. WHERE PRIVATE UTILITIES EXIST ON-SITE THE CONTRACTOR IS REQUIRED TO HAVE THOSE LOCATED AS WELL.
- PLANT MATERIALS SHALL MEET AMERICAN STANDARDS FOR NURSERY STOCK: ANSI Z60.1 LATEST EDITION. HTTP://AMERICANHORT.ORG/DOCUMENTS/ANSI NURSERY STOCK STANDARDS AMERICANHORT 2014.PDF
- NO PLANT SUBSTITUTIONS SHALL BE MADE WITHOUT THE PRIOR WRITTEN AUTHORIZATION FROM THE CITY.
- ALL TREE PROTECTION MEASURES TO BE FIELD STAKED PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE FIELD REVIEW OF PROPOSED TREE PROTECTION LOCATIONS WITH THE CITY AND PROJECT LANDSCAPE ARCHITECT PRIOR TO ANY TREE PROTECTION INSTALLATION.
- ALL TREE LOCATIONS TO BE FIELD STAKED PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE FIELD REVIEW OF PROPOSED TREE LOCATIONS WITH THE CITY AND PROJECT LANDSCAPE ARCHITECT PRIOR TO ANY TREE INSTALLATION.
- ALL PLANTS SHALL BE PLANTED IMMEDIATELY UPON ARRIVAL TO PROJECT SITE. NO PLANT MATERIAL IS TO BE LEFT OVERNIGHT ON THE PROJECT SITE WITHOUT BEING INSTALLED UNLESS WRITTEN APPROVAL BY CITY.
- TREES AND SHRUBS SHALL NOT BE PLANTED IN THE RIGHT- OF-WAY EXCEPT AS APPROVED BY THE CITY COUNCIL
- ALL PLANTS REQUIRED AS PART OF AN APPROVED LANDSCAPING PLAN SHALL BE MAINTAINED AND KEPT ALIVE AND IN A HEALTHY CONDITION. DEAD PLANTS SHALL BE REPLACED IN KIND AND IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN PROVIDED SITE AND ENVIRONMENTAL CONDITIONS ARE NOT PROHIBITIVE
- ALL NEW PLANTS SHALL BE GUARANTEED FOR TWELVE (12) MONTHS FROM THE TIME ALL PLANTING HAS BEEN COMPLETED AND A CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED. ALL PLANTS SHALL BE ALIVE, OF GOOD QUALITY, WITH NO SIGNS OF STRESS, AND DISEASE FREE AT THE END OF THE WARRANTY PERIOD OR THEY SHALL BE REPLACED. ANY REPLACEMENTS SHALL BE WARRANTED FOR 12 MONTHS FROM THE TIME OF REPLACEMENT.
- ALL AREAS DISTURBED ADJACENT TO THE PROJECT SITE INCLUDING BOULEVARDS SHALL BE REPAIRED AND MAINTAINED PER CITY DIRECTION.
- PROVIDED A THREE YEAR MAINTENANCE PLAN FOR ALL SEEDING OF PLANT MATERIALS/AREAS WITHIN ALL COMMERCIAL PROPERTIES, COMMONLY HELD HOA AREAS, CITY OUTLOTS AND R.O.W AREAS.

**PLANT LEGEND**

- SERVICEBERRY TREE
- IRONWOOD TREE
- BIRCH TREE
- ASPEN TREE

**GROUND COVER LEGEND**

- GRADING LIMITS
- DENOTES MNDOT LOW MAINTENANCE TURF (25-131) SOD. TOTAL AREA (0.45 AC)
- DENOTES MNDOT WET PRAIRIE (34-262) SEED MIX. TOTAL AREA (0.2 AC)
- DENOTES MNDOT MESIC PRAIRIE GENERAL (35-241) SEED MIX. TOTAL AREA (0.15 AC)

- SEEDING WILL BE ALLOWED IN THE FRONT YARD ONLY IF A SPRINKLER SYSTEM IS ALSO INSTALLED.
- THE SUGGESTED SEEDING RATE FOR MNDOT LOW MAINTENANCE TURF (25-131) IS 220 LB/AC.
- THE SUGGESTED SEEDING RATE FOR MNDOT WET PRAIRIE (34-262) IS 14.5 LB/AC.
- THE SUGGESTED SEEDING RATE FOR MNDOT MESIC PRAIRIE GENERAL (35-241) IS 36.5 LB/AC.
- PLEASE REFER TO THE MNDOT SEEDING MANUAL FOR SEEDING BED PREPARATION, METHOD AND APPLICATION RATE.
- ALL TEMPORARILY DISTURBED AREAS TO BE SEEDED WITH MNDOT LOW MAINTENANCE TURF (25-131) UNLESS NOTED OTHERWISE.

**PRESERVATION LEGEND**

- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING CONIFEROUS TREE TO REMAIN

**TURTLE PONDS  
6TH ADDITION**  
ST. FRANCIS, MN

PROJECT TITLE:

CLIENT:

**JOHNSON ENGINEERING GROUP**  
PO BOX 384  
WINDOM, MN 56101  
PHONE: 507-822-1735  
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PROJECT NO.: 0021-01

DWN BY: PAG CHKD BY: LNJ APPD BY: LNJ

ISSUE DATE: 05-17-2023

ISSUE NO.: 3

SHEET TITLE:

LANDSCAPE PLAN

SHEET NO.:

**L-102**

