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# **Le Sueur County, MN**

**Thursday, March 12, 2015**

**Regular session**

## **Item 3**

### **Lake Washington Improvement Association Packet**

Staff Contact: Kathy Brockway or Michelle Mettler

# STAFF REPORT

## GENERAL INFORMATION

**APPLICANT:** Lake Washington Improvement Association  
**OWNERS:** Kevin Clinton, Collette Krenik, Martha Weisgram

**ADDRESS:** Located off County Road 103 (North Shore Drive)-104 (Ridgetop Road)

**PROJECT DESCRIPTION:** Grading, excavating and filling of 3,408 cubic yards of material for the reconstruction of a sediment pond in an Agriculture "A" District.

**PROPERTY LOCATION:** N 1/2 SW 1/4, Section 9, Washington Township.

**ZONING ORDINANCE:** Sections 8,18

**GOALS AND POLICIES:**  
Goal 2: Le Sueur County should adopt and enforce land use goals and policies that conserve and restore its natural resources, bring protections to the ecological systems of the natural environment, and prevent the premature development of natural resource areas.

## SITE INFORMATION

**LOCATION:** N 1/2 SW 1/4, Section 9, Washington Township.

**ZONING:** Ag

**GENERAL SITE DESCRIPTION:** Wetlands, wooded

**ACCESS:** Existing

**EXISTING LAND USE WITHIN ¼ MILE:**  
North: Ag                      South: Ag  
East: Ag                        West: Scattered Residential, wooded, Lake Washington

## BACKGROUND INFORMATION

See narrative

## TOWNSHIP BOARD NOTIFICATION

The applicants contacted Steve Biehn of Washington Township on February 16, 2015

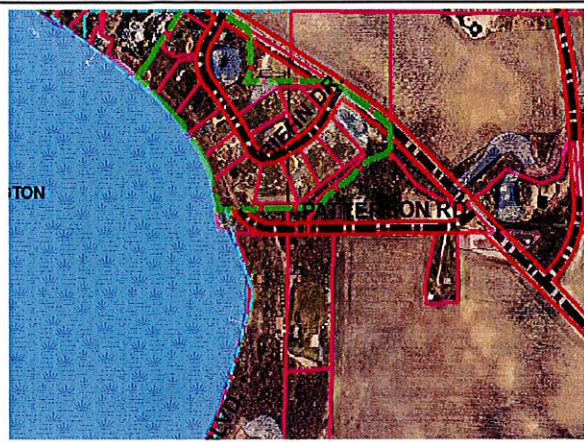
## NATURAL RESOURCES INFORMATION

**SHORELAND:** The proposal is not located within the Shoreland District.  
**WETLANDS:** According to the National Wetlands Inventory, types 1 & 3 wetlands located in the quarter-quarter section where the project is proposed.

## ATTACHMENTS

Narrative, Site Plan, Survey, Erosion Control Plan

## SITE PLAN



## PLANNING AND ZONING COMMISSION CONSIDERATIONS

The Planning Commission and staff shall consider possible adverse effects of the proposed conditional use and what additional requirements may be necessary to reduce such adverse effects. Its judgment shall be based upon the following factors to include, but not limited to:

1. Relationship to County plans.
2. The geographical area involved.
3. Whether such use will negatively affect surrounding properties in the area in which it is proposed.
4. The character of the surrounding area.
5. The demonstrated need for such use.
6. Whether the proposed use would cause odors, dust, flies, vermin, smoke, gas, noise, or vibration or would impose hazards to life or property in the neighborhood.
7. Whether such use would inherently lead to or encourage disturbing influences in the neighborhood.
8. Whether stored equipment or materials would be screened and whether there would be continuous operation within the visible range of surrounding residences.
9. Abatement of Environmental Hazards as regulated in this Ordinance
10. Other factors impacting the public health, safety and welfare.

## PLANNING AND ZONING COMMISSION FINDINGS

Based on the information submitted by the applicant, contained in this report, and as required by the Le Sueur County Zoning Ordinance, the following findings have been developed for this request:  
(Please circle one for each item: *Agree, Disagree, Not Applicable.*)

1. The conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity. **A D NA**
2. The establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area. **A D NA**
3. The adequate utilities, access roads, drainage and other facilities have been or are being provided. **A D NA**
4. The adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use. **A D NA**
5. The adequate measures have been or will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result. **A D NA**

**Recommend (circle one) approval / denial / table / of Conditional Use Permit.**

# Le Sueur County

## Conditional Use Application-Grading, Excavating & Filling

Activities that involve topographic alterations in all districts shall conform to the standards in Section 18 of the Le Sueur County Zoning Ordinance. Activities within a shoreland district shall conform to the standards in Section 13 of the Le Sueur County Zoning Ordinance.

In addition any activities in any type wetland shall be evaluated in accordance with the Wetland Conservation Act (WCA) regulations, as administered by the Le Sueur County Soil & Water Conservation District (SWCD).

### I. Applicant:

Name Lake Washington Improvement Association - Pam Olson, President  
Mailing Address 5512 N Shore CT  
City Madison Lake State MN Zip 56063  
Phone # 507-327-4111 Phone # 507/327-4111

### II. Landowner:

Name Kevin Clinton (See attached)  
Mailing Address 32204 Sandborn Drive  
City Montgomery State MN Zip 56069  
Property Address (See attached)  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone # \_\_\_\_\_ Phone # \_\_\_\_\_

### III.

**Parcel Information:** (See attached) 7610  
Parcel Number 13.009.7700 & 13.009.7600 Parcel Acreage \_\_\_\_\_  
Attach Full Legal Description (**NOT** abbreviated description from tax statement)  
Township \_\_\_\_\_ Section \_\_\_\_\_  
Subdivision \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_

### IV. Township Notification: Township must be notified of proposed use prior to application.

Washington Township notified on Letter Hand delivered 2/16/15  
(Township Name) (Date)  
Board Member Steve Biehn regarding the proposed use.  
(Name)

### V. Quantities and Submittal Formats:

- One (1) reproducible 8.5" x 11" copy of the request and all other supporting documents.
- Twenty Three (23) copies must be submitted, if any documents are in color, an aerial, or larger than 8.5" x 11" in size.
- Electronic version of any supporting documents *if available*.
- Additional copies may be requested as deemed necessary by the Department.
- Application must be made in person** by the applicant and/or landowner no later than 12 P.M. on the date of application deadline.

e. Appointment is necessary.

f. Applications will not be accepted by mail.

VI. Fees: Must be paid at the time of application.

Conditional Use Permit \$ 750 After-The-Fact fee is doubled  
Filing Fee \$ 46

*\* See 501 3c*

Additional Fees:

Special Meeting \$ 2,000  
After-The-Fact Penalty \$ 1,500 OR 10% of improvement, whichever is greater

VII. Type of Request: Grading, Excavating or Filling.

- Non-Shoreland
  - Within Bluff Impact Zone
  - Within Bluff

Cubic yards of material movement: \_\_\_\_\_  
Cubic yards of material movement: \_\_\_\_\_  
Cubic yards of material movement: \_\_\_\_\_

*3408 total cy. - project*

TOTAL cubic yards of material movement: 3408 cy

- Shoreland- Outside Shore Impact Zone
  - Within Shore Impact Zone
  - Within Bluff Impact Zone
  - Within Bluff

Cubic yards of material movement: \_\_\_\_\_  
Cubic yards of material movement: \_\_\_\_\_  
Cubic yards of material movement: \_\_\_\_\_  
Cubic yards of material movement: \_\_\_\_\_

TOTAL cubic yards of material movement: \_\_\_\_\_

Assurance security shall be required for projects that are >1500 cubic yards.

VIII. Description of Request: (See Attached for a. and b.)

a. A full description of request with detailed information including what operations are to occur and what general types of equipment may be used in the operation must be attached.

b. Complete the following in relationship to the proposed Conditional Use Permit.

1. ENVIRONMENTAL IMPACT: \_\_\_\_\_
2. ADVERSE IMPACT ON SURROUNDING AREAS: \_\_\_\_\_
3. STORMWATER RUNOFF: \_\_\_\_\_
4. DOES ANY PART OF THE PROJECT EXTEND BELOW OHWL: \_\_\_\_\_
5. WETLAND IMPACT: \_\_\_\_\_
6. SLOPE STABILITY: \_\_\_\_\_
7. CERTIFICATE OF INSURANCE: \_\_\_\_\_
8. MEET ALL APPLICABLE COUNTY STATE & FEDERAL REGULATIONS:  
(For example additional licensing and/or permitting) \_\_\_\_\_

IX. Site Plan: Shall include but not limited to the following: (See Attached)

- Parcels < 5 AC = 2-foot contours depicting existing and proposed topography.
- Parcels 5-20 AC = 5-foot contours depicting existing and proposed topography.
- Parcels >20 AC = 10-foot contours depicting existing and proposed topography.
- Location of grading, excavating, and/or filling sites.
- Location of areas for obtaining fill or disposing of excavated materials.
- Tree inventory of all trees, indicating trees to be cut or removed.  
(Caliper of 6 inches or greater measured 4.5 feet from ground level).

- North point
- Lake
- Existing Structures
- Septic system
- Setbacks
- River
- Proposed Structures
- Well

## Brockway, Kathy

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**From:** Chantill Kahler-Royer [chantillka@bolton-menk.com]  
**Sent:** Tuesday, February 17, 2015 11:10 AM  
**To:** 'Pam Olson'; Brockway, Kathy  
**Subject:** RE: CUP

Not sure why the line breaks went away. Here it is again, hopefully clearer:

Site 7 and Site 4 total excavation/grading/filling = 3,546 CY = 3,348 CY (Site 7 excavation) + 30 CY (Site 7 Class 3 riprap) + 30 CY (Site 7 crushed rock) + 46 CY (Site 4 excavation) + 46 CY (Site 4 Class 3 riprap) + 46 CY (Site 4 crushed rock)

Breakdown of excavation/grading/filling by site:

Site 7 (pond excavation, larger rock weeper and rerouting) total = 3,348 + 30 + 30 CY = 3,408 CY  
Site 4 (rock weepers in stream bed) = 46+46+46 CY = 138 CY

Breakdown of excavation/grading/filling by property owner:

Clinton property - pond, drainageway and rock weeper = 2530 CY

Krenik property - drainageways and berm = 878 CY

Steve Biehn and Darryl Biehn (stream bed) property - 2 rock weepers = 92 CY

Mark Stenzel (Lot 5) - 1 rock weeper = 46 CY

Chantill A. Kahler Royer, PE, LEED AP ND  
Wetland Delineator in Training No. 5197  
Project Engineer  
Bolton & Menk, Inc.  
Consulting Engineers & Surveyors  
1960 Premier Drive  
Mankato, MN 56001  
P: (507) 625.4171 ext. 2636  
M: (507) 327.8430  
F: (507) 625.4177  
email: [chantillka@bolton-menk.com](mailto:chantillka@bolton-menk.com)  
[www.bolton-menk.com](http://www.bolton-menk.com)

-----Original Message-----

**From:** Chantill Kahler-Royer  
**Sent:** Tuesday, February 17, 2015 11:04 AM  
**To:** 'Pam Olson'; [kbrockway@co.le-sueur.mn.us](mailto:kbrockway@co.le-sueur.mn.us)  
**Subject:** RE: CUP

Site 7 and Site 4 total excavation/grading/filling = 3,546 CY = 3,348 CY (Site 7 excavation) + 30 CY (Site 7 Class 3 riprap) + 30 CY (Site 7 crushed rock) + 46 CY (Site 4 excavation) + 46 CY (Site 4 Class 3 riprap) + 46 CY (Site 4 crushed rock)

Breakdown of excavation/grading/filling by site:

Site 7 (pond excavation, larger rock weeper and rerouting) total = 3,348 + 30 + 30 CY = 3,408 CY  
Total Site 4 (rock weepers in stream bed) = 46+46+46 CY = 138 CY

Breakdown of excavation/grading/filling by property owner:

- Property Lines
- Road Right-Of-Way
- Landscape, screening and buffering
- Wetland
- Stream
- Lot Dimensions
- Ponds
- Access (size & location)
- Easements
- Drainage

**Site plan & As-Built must be completed by a surveyor or professional engineer.**

**X. Restoration Plan:** Shall include but not limited to the following:

- Areas of restoration shall include the application of a minimum of 4 inches of topsoil or similar material that will support plant growth. *(Must be included in cubic yards calculation of material.)*
- Reseeded areas indicated with type of vegetation. *(Shall meet minimum standards by the SWCD)*
- Tree replacement plan. *(Areas located within the Bluff Impact Zone, Bluff, Shoreland & Conservancy Distircts)*
  - Root zone of existing trees shall be preserved and protected during development.
  - Replace one tree for every tree that is removed.
  - Replacement trees shall have a minimum caliper of 2 inches at 4.5 feet from ground level.

**XI. Attachments: Shall include but not limited to:**

- a. **Description of Request**-See Part VIII for full details and requirements.
- b. **Site Plan**-See Part IX for full details and requirements.
- c. **Full Legal Description**-Not abbreviated description from tax statement.
- d. **Access approval**-Attach approval in writing from proper road authority.
- e. **Township Notification**-See Part IV for details and requirements.
- f. **Septic System Compliance Inspection**
- g. **Erosion Control Plan**-Attach completed and signed plan including map.
- h. **Restoration Plan**-See Part X for full details and requirements.
- i. **Approved Stormwater Pollution Prevention Plan**  
*-Must meet NPDES requirements and prepared by a licensed professional engineer.*

**XII. Procedure:**

The Planning & Zoning Commission shall hold a public hearing on the proposed Conditional Use Permit at a scheduled Planning and Zoning Commission meeting.

The Planning and Zoning Commission is an advisory board to the County Board of Commissioners and will make a recommendation to the County Board.

The Department shall report the finings and recommendations of the Planning Commission to the County Board for final decision.

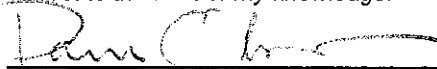
Action by the County Board shall be a majority vote of its members.

The Department shall notify the applicant and/or landowner in writing of the County Board decision.

A certified copy of the Conditional Use Permit shall be filed with the Le Sueur County Recorder by the Department.

**XIII. Signatures:**

*I hereby certify with my signature that all data contained herein as well as all supporting data are true and correct to the best of my knowledge.*

  
 Applicant signature

2/12/15  
 Date

*I hereby certify with my signature that all data contained herein as well as all supporting data are true and correct to the best of my knowledge.*

Kevin J. Clinton  
Property Owner signature

2-16-15  
Date

Mona A. Desigam

2-17-15

Collette D. Krenik

OFFICE USE ONLY

2-24-15

Request: GRADING, EXCAVATING & FILLING

- Non-Shoreland
- Within Bluff Impact Zone
- Within Bluff

Cubic yards of material movement: 3408  
 Cubic yards of material movement: \_\_\_\_\_  
 Cubic yards of material movement: \_\_\_\_\_

TOTAL cubic yards of material movement: 3408

- Shoreland - Outside Shore Impact Zone
- Within Shore Impact Zone
- Within Bluff Impact Zone
- Within Bluff

Cubic yards of material movement: \_\_\_\_\_  
 Cubic yards of material movement: \_\_\_\_\_  
 Cubic yards of material movement: \_\_\_\_\_  
 Cubic yards of material movement: \_\_\_\_\_

TOTAL cubic yards of material movement: \_\_\_\_\_

Pre-App Date 2/17  
 N  
 Meeting Date 3/12  
 N  
 60 Day 4/17  
 N  
 Zoning District AG  
 N

Lake Classification /  
 Lake /  
 FEMA Panel # 27079C0 265  
 Flood Zone X outside

Feedlot 500' 1000'  
 Wetland Type 1-2 3-8  
 Water courses   
 Bluff Y

- Request Description
- Site Plan Spec
- Full Legal Ordinance

- Access Approval
- Erosion Control Plan
- Other \_\_\_\_\_

Septic Comp Insp / Design NA  
 Meeting  / ATF /  
 Fee \$ Exempt.  
 Penalty \$

Application Complete K Brockway  
 Planning & Zoning Department Signature

2/17  
Date

15019  
Permit #



**LE SUEUR COUNTY  
CONDITIONAL USE PERMIT CRITERIA  
PERMIT # 15019 Date 03-12-15**

**Applicant:** LAKE WASHINGTON IMPROVEMENT ASSOCIATION, (APPLICANT); KEVIN CLINTON, COLLETTE BIEHN KRENIK, MARTHA WEISGRAN (OWNER)

**Conditional Use Permit Request:** grading, excavating and filling of 3,408 cubic yards of material for the reconstruction of a sediment pond in an Agriculture "A" District. Property is located in the N 1/2 SW 1/4, Section 9, Washington Township.

**ROLL CALL VOTE**

1. *The conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.*
2. *The establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.*
3. *Adequate utilities, access roads, drainage and other facilities have been or are being provided.*
4. *Adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.*
5. *Adequate measures have been or will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.*

	CR	AG	PT	DR	BB	JD	SO	SK	DK	DRY	TOTAL
1.											
2.											
3.											
4.											
5.											

If all answers are "YES" by a majority of the Planning Commission, the criteria for granting of the Conditional Use Permit request have been met. The Conditional Use Permit will main the goals of safety, health and the general welfare of the public.

DATE: \_\_\_\_\_ APPROVED: \_\_\_\_\_ DENIED \_\_\_\_\_ PZ CHAIRPERSON \_\_\_\_\_

COUNTY BOARD MEETING DATE: \_\_\_\_\_

INTERNAL REVENUE SERVICE  
DISTRICT DIRECTOR  
P O BOX A-3290 DPN 22-2  
CHICAGO, IL 60690

DEPARTMENT OF THE TREASURY

Date: JAN 16 1992

Employer Identification Number:  
41-1657571

Contact Person:  
L. HALL

Contact Telephone Number:  
(312) 886-1278

LAKE WASHINGTON IMPROVEMENT  
ASSOCIATION INC  
ROUTE 1 BOX 220  
KASOTA, MN 56050

Accounting Period Ending:  
December 31

Form 990 Required:  
Yes

Addendum Applies:  
No

Dear Applicant:

Based on information supplied, and assuming your operations will be as stated in your application for recognition of exemption, we have determined you are exempt from Federal income tax under section 501(a) of the Internal Revenue Code as an organization described in section 501(c)(3).

We have further determined that you are not a private foundation within the meaning of section 509(a) of the Code, because you are an organization described in section 509(a)(2).

If your sources of support, or your purposes, character, or method of operation change, please let us know so we can consider the effect of the change on your exempt status and foundation status. In the case of an amendment to your organizational document or bylaws, please send us a copy of the amended document or bylaws. Also, you should inform us of all changes in your name or address.

As of January 1, 1984, you are liable for taxes under the Federal Insurance Contributions Act (social security taxes) on remuneration of \$100 or more you pay to each of your employees during a calendar year. You are not liable for the tax imposed under the Federal Unemployment Tax Act (FUTA).

Since you are not a private foundation, you are not subject to the excise taxes under Chapter 42 of the Code. However, you are not automatically exempt from other Federal excise taxes. If you have any questions about excise, employment, or other Federal taxes, please let us know.

Grantors and contributors may rely on this determination unless the Internal Revenue Service publishes notice to the contrary. However, if you lose your section 509(a)(2) status, a grantor or contributor may not rely on this determination if he or she was in part responsible for, or was aware of, the act or failure to act, or the substantial or material change on the part of the organization that resulted in your loss of such status, or if he or she acquired knowledge that the Internal Revenue Service had given notice that you would no longer be classified as a section 509(a)(2) organization.

Letter 947(DO/CG)



February 12, 2015

Steve Biehn  
Washington Township Board  
48001 Deer Lane  
Madison Lake, MN 56063

Dear Steve,

On behalf of the Lake Washington Improvement Association, I am writing to formally notify you, a board member of Washington Township, that we are submitting a Conditional Use Permit (CUP) application to LeSueur County. The proposed water conservation project and supporting documents are enclosed.

Please feel free to contact me if you have any questions or concerns.

Thank you,

Pam Olson  
President  
Lake Washington Improvement Association

[www.lakewashingtonmn.com](http://www.lakewashingtonmn.com)

## II. Landowner and III. Parcel Information

Loretta Clinton, with son Kevin Clinton having power of attorney over her affairs

Mailing address:

32204 Sanborn Drive

Montgomery, MN 56069

Home: (952) 758-4225

Cell: (651) 338-7222

E-mail: [Kevin.Clinton@SaintWenceslaus.org](mailto:Kevin.Clinton@SaintWenceslaus.org)

\* LORETTA HAS PASSED. KEVIN NOW  
CO-OWNS WITH MARTHA WEISGRAM,  
HIS SISTER.

Parcel ID 13.009.7700

Property address: 47615 Ridgetop Road, Madison Lake

Section/Township/Range: 09-109-025

Brief Tax Description: Sect-09 Twp-109 Range-025 51.00 AC E 60 AC of N ½ of SW ¼ LESS 9 AC

Colette Biehn Krenik

Mailing address:

29217 Dog Creek Rd

Cleveland, MN 56017

Home: 507-931-2541

Work: 507-931-4000

Cell: (612) 599-1409

E-mail: [messages4colette@yahoo.com](mailto:messages4colette@yahoo.com)

Parcel ID 13.009.7600

Property address: 5015 Patterson Road, Madison Lake

Section/Township/Range: 09-109-025

Brief Tax Description: Sect-09 Twp-109 Range-025 11.23 AC THAT PART OF W ½ OF NW ¼ OF SW ¼ BEG AT SE COR, TH N 515.65 FT to S'LY LINE OF BIEHN ISLAND VIEW, TH SW'LY ALONG SE'LY LINE OF BIEHN'S ISLAND VIEW 603.95 FT, SW 87.45 FT, S 94.77 FT, E 533 FT TO BEG & 7.29 AC OF E ½ of NW ¼ OF SW 1/4

## VIII. Description of Project

a.

The project site is actually two pieces of property; one owned by Ms. Loretta Clinton, with son Kevin Clinton ~~having power of attorney over her affairs~~ and one owned by Ms. Colette Biehn Krenik. An unnamed creek flows from northeast to southwest through the project site. Currently there are two ponds on Ms. Biehn Krenik's property (Ponds 1 and 2, as labeled on the plan) and one pond on Mr. Clinton's property (Pond 3). The creek flows through the culvert under Ridgetop Road (County Road 104), then from Pond 1 to Pond 2 on Ms. Biehn Krenik's property and then bypasses Pond 3 on Mr. Clinton's property before it goes to the culvert under North Shore Drive (County Road 103). The ponds were created, from the naturally existing creek, by the late Mr. Terry Biehn and by Mr. Kevin Clinton many years ago. Because the ponds are man-made, these ponds are considered incidental wetlands and are exempt from wetland requirements. After flowing through the culvert under North Shore Drive (County Road 103), the creek flows on for approximately 1,700 feet before entering Lake Washington.

This project will not affect Ms. Biehn Krenik's potential residential building site on her property. We have estimated that there is at least 52,411 square feet available for a building site on her property that will not be impacted by this project.

The intended result of this proposed project is to route the water more thoroughly through each pond, preventing stagnant areas in the ponds; give the water additional time for sediments and nutrients to settle out by creating more volume in Mr. Clinton's Pond 3; and for the water to be filtered through the rock weeper structure, thus improving water quality in Lake Washington. The Lake Washington Improvement Association is pursuing this project in order to improve the water quality entering the lake.

One of the goals of this project is to ensure that all three ponds on the project site have water flowing through them and are not stagnant. A new 10-ft wide channel is proposed to be constructed from Pond 1 to the southeast corner of Pond 2. A small diversion berm will be constructed in Pond 2 to route the water in a U shape around the islands and then back north before it exits on the northeast corner of Pond 2 and enters Mr. Clinton's expanded Pond 3. This ensures that the entire Pond 2 receives water flow and does not become stagnant.

Pond 3 on Mr. Clinton's property currently receives creek flow into the pond very close to, if not directly at, the exit of water from the pond as it goes into the culvert under County Road 103. Pond 3 receives only a small amount of flow from the drainage tile under the farm field to the north of the pond, as well as overland flow from the farm field. Because the creek flow essentially bypasses Pond 3, this causes Pond 3 to be stagnant. The existing channel leaving Pond 2 has been severely eroded and the culvert placed there no longer functions (it is just sitting on top of the riprap). The proposed project will block the existing channel leaving Pond 2 and reroute flow to go through a larger portion of Pond 3 on Mr. Clinton's property by excavating a new 10-ft wide flow channel in the existing channel on the northeast corner of Pond 2 and entering Pond 3 as far east on that pond as possible. The project will also increase Mr. Clinton's pond's volume by excavating additional volume on the eastern side of Pond 3.

A rock weeper (basically an earthen berm with riprap on the top to help filter the water) will be installed on the southwest side of Mr. Clinton's Pond 3, where the water exits the pond and goes to the culvert under North Shore Drive (County Road 103). A cross section and profile view of the rock weeper are included on the plan. This rock weeper will be constructed as shown in the rock weeper detail and cross section on plan. The culvert and the County Road will not be altered by this proposed project.

A portion of the drain tile that drains Mr. Clinton's farm field and outlets into his pond may need to be abandoned and re-tiled to outlet at Point #1 shown on the site plan, due to the excavation in order to expand Pond 3. No other modifications are anticipated to be made to the field tile.

Soil from excavating additional volume in Mr. Clinton's Pond 3 and creating new channels between Ms. Biehn Krenik's Ponds 1 and 2 and Mr. Clinton's Pond 3 will be spread thinly and evenly on the farmland that is owned by Mr. Clinton to the immediate north of the project area (see area labeled "spoil" on plan). Care will be taken to smooth out the soil to allow even stormwater drainage over the area and not create any berms that would hold back water. Care will also be taken not to drive construction equipment over the existing farm field tile, in order to protect it. This farmland is currently rented out for row crops and will be planted as usual this May. The project will mostly likely be constructed in late July or early August when the creek has essentially stopped flowing. At this time, the soil will be spread in the field and the renting farmer will lose that portion of his farm field crop that will be covered with soil. In addition, if any clay is needed in order to construct the berms or rock weeper structure, Mr. Clinton has given his permission to borrow that clay from the top of the ridge in the farm field, immediately north of the area designated for spoil disposal. Mr. Clinton has made and will continue to make his renter aware of these planned disturbances and will account for it in the rental agreement. The area of disturbance in the farm field due to spoil disposal and clay borrow are not accounted for in the total area disturbed because this is a farm field which would normally be disturbed every year anyway.

Two hydrologic models were created in the software SSA, in order to determine the elevation of the ponds due to a 100-year storm in the existing and proposed conditions. The normal water levels and high

water levels for the existing and proposed conditions are compared in the table below. The ponds have higher normal and high water levels in the proposed conditions, except for Pond 1 has a lower high water level. This is due to the fact that the channel connecting Pond 1 to Pond 2 is wider in the proposed conditions, so it passes more water along from the smaller Pond 1 to Pond 2 during a large storm event. These elevations are not anticipated to cause any concern to any property.

<b>Existing Conditions</b>	<b>Pond 1</b>	<b>Pond 2</b>	<b>Pond 3</b>
<b>Normal Water Level</b>	991.0	988.0	988.0
<b>100-year High Water Level</b>	1003.38	991.0	991.0
<b>Proposed Conditions</b>	<b>Pond 1</b>	<b>Pond 2</b>	<b>Pond 3</b>
<b>Normal Water Level</b>	991.5	989.5	988.5
<b>100-year High Water Level</b>	993.17	992.12	991.86

## VIII. Description of Project:

b.

1. ENVIRONMENTAL IMPACT: The project will not be adding any impervious surfaces. The site does not currently have parking facilities, nor will it need parking in the future. The project land use will be sufficiently compatible with, separated by sufficient distance or screened from adjacent agricultural or residential zoned land and uses so that there will be no deterrence to the use or development of the adjacent land and uses. The project will not create an excessive burden on existing public parks, schools, streets and other public facilities and utilities, which serve or are proposed to serve the area. No drinking water supply or sewage treatment will be taking place on site.

2. ADVERSE IMPACT ON SURROUNDING AREAS: The project is not anticipated to have adverse impacts on surrounding areas. The site is designed and will be constructed so that it is not unsightly in appearance to the extent that it will hinder the orderly and harmonious development of the adjacent properties. No noise, odors, glare, dust or similar nuisances will be caused by the site after construction is completed. The proposed land use is not in conflict with the County Comprehensive Land Use Plan. The project site use is consistent with the purposes of the Zoning Ordinance and the purpose of the zoning district in which the applicant intends to locate the proposed use.

3. STORMWATER RUNOFF: Erosion control and/or stormwater management are provided in accordance with applicable standards. The project plan set has a Stormwater Pollution Prevention Plan component that covers erosion control and reclamation. This project is intended to improve surface water quality before it reaches Lake Washington, by providing opportunity for suspended sediments and associated nutrients time to settle out in the pond before filtering through several rock weepers.

4. DOES ANY PART OF THE PROJECT EXTEND BELOW OHWL: No

5. WETLAND IMPACT: No filling in a wetland will occur as part of the project.

6. SLOPE STABILITY: No steep slopes will be impacted by this project. The steepest slopes called for in the project plans are 3:1.

7. CERTIFICATE OF INSURANCE: A contractor has not been officially selected yet, but the selected contractor will be licensed and bonded.

8. MEET ALL APPLICABLE COUNTY STATE & FEDERAL REGULATIONS:  
The project is designed to meet all applicable county, state and federal regulations.

## X . Restoration Plan

The proposed final land use is for water quality improvement and wildlife habitat, as well as a potential residential building site on Ms. Biehn Krenik's property. There will be no slopes that are steeper than 3:1. All areas that are disturbed by excavation will be covered with at least 4 inches of topsoil and planted as soon as excavation is complete. The Le Sueur Soil and Water Conservation District was consulted on seed mixes that would be appropriate. Mn/DOT Seed Mix 33-261 or CP 25 mix (usually used for CREP areas) should be used. 3 acres are anticipated to be seeded. No trees are anticipated to be replanted because this project is not in the bluff impact zone, bluff, shoreland or conservancy districts.

## XI. Attachments

- a. Description - see VIII.
- b . Site Plan - attached
- c. Full Legal Description - see III.
- d. Access Approval - Utilizing existing access.
- e. Township Notification- see IV. and attached letter
- f. Septic System Compliance Inspection - No septic, water or sewer on construction site, so NA
- g. Erosion Control Plan-

See Storm Water Pollution Prevention Plan. The total area to be disturbed as a result of this project is estimated to be 3 acres. The volume of soil excavated is estimated to be 3,348 cubic yards. Some <sup>3408</sup> small boxelder trees will need to be removed to create the new channels and berms, but the alignments have been chosen to minimize the number of trees impacted. No impervious area currently exists, and no impervious area will be created by this project. The existing field entrance on the northeast side of the site will be used. Any eroded material that leaves the construction zone shall be collected by the contractor and returned to the site at the contractor's expense. The rock weeper will be constructed first, in order to provide sediment removal before the water enters the culvert under North Shore Drive (County Road 103).

- h. Restoration Plan - see X.
- i. Approve Stormwater Pollution Prevention Plan - attached



# OPINION OF PROBABLE COST

Kevin Clinton - Excavate northeast end of pond, add rock weeper, and add overflow from Collette Biehn-Krenik's pond into Clinton's pond

1/12/2015

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ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
<b>Pond, in southwest quarter, Section 9, R25W, T109N</b>					
1	MOBILIZATION	LS	1		
2	EXCAVATION	CY	3348		
3	CLASS 3 RIPRAP - ROCK WEEPER	CY	30		
4	2 INCH CRUSHED ROCK - ROCK WEEPER	CY	30		
5	TEMP DITCH CHECK BIROLL	EACH	2		
6	EROSION CONTROL BLANKET	SY	560		
7	MACHINE SLICED SILT FENCE	LF	660		
9	SEEDING (MN/DOT 33-261 SEED MIX, 35 lb/ac)	AC	3.0		
<b>TOTAL CONSTRUCTION COSTS</b>					

Engineering and surveying fees are not included in this cost estimate.

**OPINION OF PROBABLE COST**

Three Rock Weepers, spaced approximately 50 feet apart, in unnamed creek near Camp Patterson

1/12/2015

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ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
<b>Rock Weepers, in southwest quarter, Section 9, R25W, T109N</b>					
1	MOBILIZATION	LS	1		
2	EXCAVATION	CY	46		
3	CLASS 3 RIPRAP	CY	46		
4	2 INCH CRUSHED ROCK	CY	46		
5	SEEDING (MN/DOT 33-261 SEED MIX)	AC	0.5		
<b>TOTAL CONSTRUCTION COSTS</b>					

Mobilization will be included as part of Site 7.  
 Engineering and surveying fees are not included in this cost estimate.

**SECTION 02660 - DETENTION POND EXCAVATION & EMBANKMENT**

**PART 1 -- GENERAL**

1.1 GENERAL

- A. This section covers the furnishing of all labor, materials, tools, equipment and performances of all work and services necessary or incidental to the construction of storm water detention ponds as indicated on the drawings or as specified herein.

1.2 METHOD OF MEASUREMENT AND PAYMENT

- A. Measurement and compensation for the following items shall be paid according to the referenced specification or as modified below:
- B. Payment for all labor, equipment, materials, and supplies necessary to complete the work specified in this section shall be included in the lump sum bid for the project or appropriate bidding section.
- C. The furnishing and installing of specific items and/or the performance of work under certain circumstances shall not be individually paid. All costs shall be included in the lump sum bid. Such items of work include but are not limited to:
  - 1. Salvaging, stockpiling and restoring topsoil to the disturbed areas where turf restoration is required.
  - 2. Earthwork balancing including adjustments for shrinkage loss.
  - 3. All labor, equipment and materials necessary for the disposal of excess excavated materials and excavated materials unsuitable for use in the construction. The required work includes, but is not limited to: preparation of the disposal area, loading, hauling, dumping, spreading, shaping and compacting the disposed material.
  - 4. All labor, equipment and materials necessary for density testing, as specified.
  - 5. All labor, equipment and materials for dewatering, if necessary.
    - (1) All labor, equipment and water used in constructing and compacting the embankment or protection layer materials.

1.3 SPECIFICATION REFERENCES

- A. Mn/DOT Specification Section 2105.1 through 2105.3 shall apply to all excavation and embankment, except as modified in these Special Provisions.
- B. Reference to "roadway" and "roadbed" in the MN/DOT Specifications shall be used interchangeably with "dike" and/or "embankment."
- C. Unless noted otherwise, the provisions in this section are in addition to the referenced specification.

**PART 2 -- PRODUCTS**

2.1 MATERIALS

- A. All suitable excess excavated material shall remain the property of the Owner and shall be loaded, hauled, placed and compacted at a site chosen by the Owner within 2 miles of the pond site.

## PART 3 -- EXECUTION

### 3.1 CONSTRUCTION REQUIREMENTS

#### A. EXCAVATION/EMBANKMENT CONSTRUCTION

1. At the end of each day the Contractor shall eliminate surface indentations, including those caused by sheeps foot rollers and tractor cletes, and roll the surface with a steel wheel or rubber tired roller.
2. The Contractor shall disc, scarify, shape and compact the upper twelve (12) inches of the pond subgrade, adding water or drying as may be necessary to give uniform and desired density.
3. If the subgrade is unstable and the instability is due to excessive moisture, the subgrade shall be scarified and dried over a reasonable time period. When the material has reached acceptable moisture limits, the material shall be returned to the pond bed and compacted into place to the proper elevation. The pond bed will once again be test rolled. If the material continues to be unstable, the Engineer may authorize the removal of the undesirable material as subgrade excavation.
4. Design contours representing the finished surface are shown on the grading plan at this site. The Contractor shall excavate, haul, place and compact the material as needed to be within +/- 0.5' of the finished subgrade of the site.
5. Embankments shall be constructed in eight-inch (loose thickness) lifts.
6. All embankments and subcuts shall be compacted using the Specified Density Method. Testing shall be by the Contractor. Compacted density shall be at least 95% of ASTM:D698-78, Standard Proctor Density. Certified copies of all density test reports shall be provided to the Engineer.
7. Topsoil unsuitable for protection layer construction can be used as embankment material beyond the four to one pond slopes.
8. All rock six-inches and larger encountered during any embankment construction shall be removed and disposed of as directed by Engineer.
9. All embankment shall be compacted using the Quality Compaction Method.

### 3.2 SOURCE QUALITY CONTROL

- A. The Owner may arrange for having the following testing performed:
  1. One (1) gradation test per each 500 tons or 275 cubic yards (CV) of granular borrow.
  2. One (1) Standard Proctor test per each 500 cubic yards of clay borrow.
- B. All testing shall be performed by an independent testing laboratory approved by the Engineer.
- C. Samples for testing shall be taken from material at locations approved by the Engineer. All sampling methods shall be in accordance with the Mn/DOT Schedule of Materials Control.

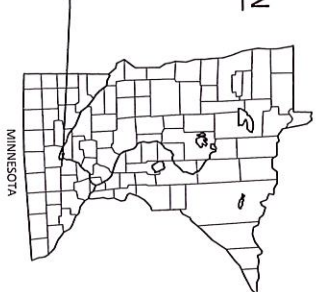
### 3.3 FIELD QUALITY CONTROL

- A. "Blue top" stakes shall be provided by the Contractor at 100 foot intervals to confirm that the subgrade is constructed to the required grades and elevations. Methods other than "blue top" staking may be allowed, if approved by the Engineer.

\*\*\*\* END OF SECTION \*\*\*\*

# STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

LAKE WASHINGTON  
LE SUEUR COUNTY, MINNESOTA



**RESPONSIBLE PARTIES:**  
The Contractor and Owner must apply for coverage under the MPCA's General Storm Water Permit for Construction Activity as required by the current rules (MPCAS) and all programs. Coverage under the permit will begin on the calendar date after the electronic submission date or after the postmarked date of a complete application. [Longer time frames apply to sites that disturb areas greater than 50 acres.]

OWNER:	COMPANY	CONTACT PERSON	PHONE
SWPPP DESIGNER:	Bolton & Menk, Inc.	Kevin Clinton	651-338-7222
CONTRACTOR:	TBD	Chantell Kahler-Royer	507-625-4171
SITE MANAGER:	Bolton & Menk, Inc.	See note below	TBD
PARTY RESPONSIBLE FOR LONG TERM O&M:		Kevin Clinton	651-338-7222

Individuals listed above, including the SWPPP preparer, individual overseeing implementation of, revising, and amending the SWPPP, and the SWPPP checker, must be available on site within 72 hours, shall be trained in the applicable job duties. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Copies of the SWPPP preparer and site manager training certificates shall be included in the SWPPP. Bolton & Menk, Inc. shall be the SWPPP preparer and site manager. The contractor shall be responsible for the SWPPP implementation, maintenance, and repair of BMP's to be included in the SWPPP prior to the start of construction. This information shall be kept up to date until the project is not a field.

- Documentation shall include:
- Names of trained personnel associated with this project.
  - Training certificates and training records (if available) and entity providing training.
  - Content of training course or workshop including the number of hours trained.
  - As an alternative to a, b, and c listed above, a photocopy of a current Erosion and Stormwater Management card issued by the University of Minnesota can be attached to the SWPPP as verifiable documentation of training.

**SPECIAL ENVIRONMENTAL CONSIDERATIONS:**  
Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?  
NO

Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?  
NO

Does any portion of this site discharge to a Category 1 or 2 and the latter of approval from the DNR is located on the Project Manual?  
NO

Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?  
NO

Have any karst features been identified in the project vicinity?  
NO

Is compliance with temporary or permanent stormwater management design requirements (releasable for this project?)  
NO

Has the MN DNR promulgated "work in water restrictions" for any Public Water this site discharges to during fish spawning?  
NO

**GENERAL STORMWATER DISCHARGE REQUIREMENTS:**  
All stormwater discharges from the site shall be treated to the standards set forth in the Minnesota Pollution Control Agency's (MPCA) General Stormwater Pollution Prevention Plan (SWPPP) for Construction Activity. The design of the stormwater management system and discharge shall be designed to meet or exceed the standards set forth in the MPCA's SWPPP for Construction Activity. The design shall include the following:

- The design shall include the design of the stormwater management system and discharge.
- The design shall include the design of the stormwater management system and discharge.
- The design shall include the design of the stormwater management system and discharge.
- The design shall include the design of the stormwater management system and discharge.

**LEGEND**

- PROJECT BOUNDARY
- IMPAIRED SPECIAL OR PROTECTED WATERS
- NATIONAL WETLANDS INVENTORY

**PROJECT AREAS:**

Project Area (disturbed area) =	3.0 ACRES
Existing area of impervious surface =	0.0 ACRES
Final construction area of impervious surface =	0.0 ACRES
Total new impervious surface area created =	0.0 ACRES
Planned Construction Start Date:	8/1/15
Estimated Construction Completion Date:	12/1/15

**PERMANENT STORMWATER MANAGEMENT SYSTEM:**  
Type of storm water management used if more than 1 acre of new impervious surface is created:  
Wet Sedimentation Basin  
Regional Pond  
Permeable Storm Water Management Not Required  
X

**PROJECT LOCATION:**

COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
Le Sueur	109	25	3	44.2629	-93.8439

**BMP SUMMARY:**

BMP	QUANTITY	UNIT
Mechanically stabilized silt fence or filter log	660	FT
Temporary Ditch Cover - Biocell	2	EACH
CAT 3 Erosion Control Blanket	560	SY
Seed Mix 35-261 (55 Buffer/seed)	3.0	AC

\*Retaining shall be contractor for 30 day maintenance of seeding. No additional payment shall be made for reseeded due to contractor phasing, erosion issues, or failure to maintain.

**DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:**  
Construction activities include: disturbance of approximately 3 acres. Construction activities include pond excavation, seeding, rock weaver construction, and erosion and sediment control.

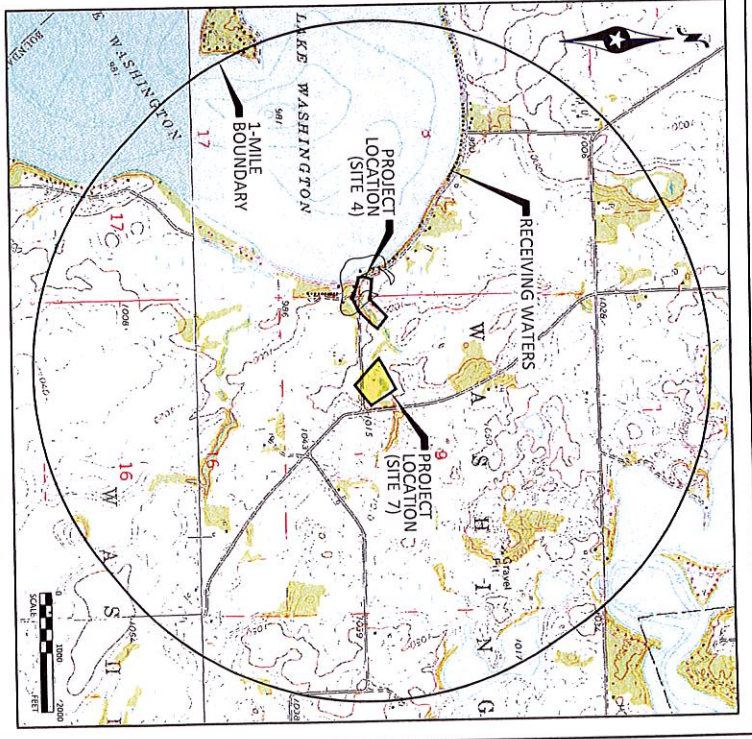
Slopes on the site are primarily of hydrologic Soil Group Type B, with high to moderate infiltration capacity. The Lake Washington Improvement Association in conjunction with property owner Kevin Clinton is proposing the Washington Regional Wetland/Stormwater pond just upstream of CR 103 on the East end of Lake Washington. Although no new impervious area is being generated from this project, the total disturbed area is greater than 1 acre. Also, since this project is a retrofit to an existing stormwater treatment pond, water treatment requirements were not considered in the original design. Construction will occur in the summer and fall to take advantage of drier weather.

Existing drainage patterns are maintained in the proposed condition. According to the grading Plan, Forms 2 and 3 are proposed to be modified to increase the treatment area of the existing basin while maintaining the existing peak water surface elevations. Also, for additional sediment removal, a rip rap weaver structure is proposed.

Three rock weavers will be installed downstream of the ponds as shown in the grading plan.  
All modifications to this SWPPP shall be approved by the engineer and maintained with the original documents on the construction site.

**PERMITTING:**  
All required permits will be retained for a period of not less than 3 years from the date of submittal of the NOT in compliance with Part III.E of the Permit.

**DOCUMENT SIGNATURE:**  
1. The final SWPPP  
2. Copies of all stormwater related permits required for the project  
3. Records of all inspection, operation and maintenance agreements including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance, and  
4. All required calculations for design of the temporary and permanent BMP's.



**RECEIVING WATERS:**  
Receiving waters, including surface water, wetlands, public waters, and stormwater ponds, are identified on the USGS 7.5 min quad map within one mile of the project boundary. Receiving waters that are impaired, the impairments are listed and incorporated into this plan. All BMP's relative to construction activities listed in this SWPPP shall be designed to prevent pollutants from entering the receiving waters. Specific BMP's listed in approved TMDL and Water BMP's listed for construction-related waste load allocations have also been incorporated into this plan.

NAME OF WATER BODY	TYPE (ditch, pond, wetland, lake, etc.)	Appendix A, Special Water?	Flow to Impaired Water Within 1 Mile?	USEPA Approved TMDL?
Lake Washington	Lake	No	Yes, Not for Construction	Yes, Not for Construction

**IMPLEMENTATION SCHEDULE AND PHASING:**  
1) Submit SWPPP updates to Engineer for review and approval. Construction shall include any requested changes to the SWPPP, including but not limited to: Sediment Control, Failure to submit updates shall be considered acceptance of the SWPPP as designed with no changes.  
2) Install Rock Weavers at Site 7 and Site 4.  
3) Install Temporary Biocell Ditch Covers.  
4) Install Silt Fence.  
5) Excavate additional pond area according to Grading Plan.  
6) Install CAT 3 Erosion Control Blanket.  
7) Seed, mulch, and fertilize.  
8) Upon permanent features, remove silt fence and set temporary biocell ditch covers decompose impinge.  
9) Erosion final stabilization measures are complete.  
10) Submit Notice of Termination (NOT) to MPCA within 30 days of final stabilization.

**PLAIN SHEETS:**  
Sheet numbers EROZ thru EROB of this plan set are also considered a part of the SWPPP for this project.

**BOLTON & MENK, INC.**  
10101 UNIVERSITY AVENUE, SUITE 200, WASHINGTON, MN 55391  
763.429.1100  
www.boltonandmenk.com

**LAKE WASHINGTON IMPROVEMENT ASSOCIATION**  
STORMWATER POLLUTION PREVENTION PLAN  
PROJECT INFORMATION AND LOCATION MAP

**PROJECT INFORMATION AND LOCATION MAP**

**STORMWATER POLLUTION PREVENTION PLAN NARRATIVE**

Information contained in this SWPPP summarizes requirements of the GENERAL DEBARMENT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM'S (NPDES) DISCHARGE STATE PROHIBITION PERMIT (MS00000) as they apply to this project. All provisions of the permit, including those not specifically cited herein, shall apply to the project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the permit is available at: <http://www.pca.state.mn.us/index.php/water/water-types-and-programs/stormwater/construction-stormwater/npdes-to-re-construct-stormwater-general-permit/1100>

**SWPPP AMENDMENTS**

Permittee must amend SWPPP as necessary to include additional requirements to correct problems identified or address the following situations:

1. There is a change in design, construction, operation, maintenance, weather or seasonal conditions.
2. Inspectors or investigators by site owner or operators, USEPA or MPCA officials determine the SWPPP is not minimizing discharges of pollutants to surface waters or underground waters or discharges are causing water quality standard exceedances.
3. The SWPPP is not achieving the objectives of minimizing pollutants in stormwater discharges associated with construction activity, or the SWPPP is not consistent with the terms and conditions of the permit.
4. The MPCA determines that the project's stormwater discharges may cause, have reasonable potential to cause, or contribute to non-attainment of any applicable water quality standard, or the SWPPP does not incorporate the applicable requirements of the permit.

**EROSION PREVENTION PRACTICES**

The location of areas not to be disturbed must be delineated on the project before site work begins. Disturbance on steep slopes (>33%) shall be minimized. Where required, techniques such as piling and stabilizing practices designed for steep slopes shall be used.

All exposed soils must be stabilized as soon as possible, but in no case later than 7 days after the construction activity has temporarily or permanently ceased.

For public works that have been promulgated "work in water restriction" during the spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period.

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity reduction devices shall be used at outlets within and along the length of any constructed conveyance channel. The normal watered 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 of connection.

Stabilization of the remaining portions of any temporary or permanent ditches or swales within 14 calendar days after connecting to a surface water or property edge and construction in that portion of the ditch has temporarily or permanently ceased.

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydro-mulch, seedler, or similar practice shall not be used in any portion of a temporary or permanent drainage ditch, inlet to erosion and sediment control plan or temporary and permanent stabilization measures for ditches and swales.

Stormwater discharge shall be directed to vegetated areas where feasible. Velocity dispersion devices shall be used at discharge point.

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

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, contractor shall use any available rapid stabilization to immediately mitigate erosion, then further remedy the situation with approval by owner or engineer.

**SEDIMENT CONTROL PRACTICES**

Practices must be established on all down gradient perimeters and be located up gradient of any buffer zones. Perimeter controls must be in place before up gradient band disturbing activities begin and shall remain in place until final stabilization.

All sediment control practices shall be re-installed if they have been adjusted or removed to accommodate short-term activities and replaced immediately after the short-term activity has ceased. Short term activities shall be performed as quickly as possible. Sediment control practices shall be re-installed even before next precipitation event if the activity is not complete.

All storm drains must be protected by appropriate BMPs during construction until all sources to the inlet have been stabilized. Inlet protection may be removed for specific areas or components identified by the Permittee or Jurisdictional Authority. The removal shall be documented in the SWPPP and retained on file. Temporary structures must have silt fence or other effective sediment control and shall not be placed in surface waters or riparian buffers.

Vehicle tracking BMPs shall be installed to minimize track out of sediment from the construction site. Method shall be approved by engineer prior to commencement of construction activities. Street sweeping shall be used if vehicle tracking BMPs are not adequate to prevent sediment from being tracked onto the street.

Soil compaction shall be minimized and topsoil shall be preserved, unless feasible or if construction activities dictate soil compaction or topsoil striping.

A 50 foot natural buffer, or equivalent (where a buffer is infeasible) must be maintained where a surface water is located within 50 feet of disturbance activities and site runoff flows to the surface water.

If polymers, flocculants, or other sedimentation treatment chemicals are used on site, 3) conventional erosion and sediment control BMPs shall be spaced prior to chemical placement, 2) chemicals shall be chosen based on soil types, and expected conductivity, pH, and flow rate of stormwater flowing into the treatment system, and 3) chemicals shall be used with accepted engineering practices and labeling specifications.

**TEMPORARY SEDIMENTATION BASINS**

The temporary sedimentation basin shall be constructed and made operational prior to disturbance of 10 or more acres draining to a common location.

Temporary sedimentation basins are required prior to runoff leaving the construction site or entering surface waters when 10 or more acres of disturbed soils drain to a common location. The basin must provide 3,000 cubic feet of storage below the outlet per acre drained. If the calculations are available, the temporary sedimentation basin must provide a storage volume sedimentation basin must be constructed and made operational prior to disturbance of 10 or more acres of disturbed soils. The temporary sedimentation basin shall be designed to prevent short duration. The outlet shall be designed to remove floatable debris, allow for complete diversion of the pond for maintenance activities, and have energy dissipation. The emergency spillways shall be stabilized.

Temporary sedimentation basins shall be situated outside of surface waters and any required buffer zone, and must be designed to avoid draining wetlands, unless the impact is compliance with the requirements of this permit.

Excessive sediment-laden water that is not properly filtered will not be permitted to discharge from site.

**DEWATERING AND BASIN DRAINING**

Turbid or sediment-laden waters related to dewatering or basin draining shall be discharged to a temporary or permanent sedimentation basin on the project site unless infeasible. The temporary or permanent basin may discharge to surface waters if the basin water has been visually checked to ensure adequate treatment has been obtained in the basin and that the nuisance conditions will not result from the discharge. Discharge points shall be adequately protected from erosion and proper velocity dispersion provided.

All water from dewatering or high-drawling activities must be discharged in a manner that does not cause nuisance conditions, results in the working channels or on down slope properties, or inundation in wetlands causing significant adverse impacts to the wetland.

If filters with backwash waters are used, the backwash water shall be hauled away for disposal, returned to the beginning of the treatment process, or incorporated into site in a manner that does not cause erosion. Backwash water may be discharged to sanitary sewer if permission is granted by the sanitary sewer authority.

**POLLUTION PREVENTION**

Building products that have the potential to leach pollutants must be under cover to prevent discharge or protection by an effective means designed to minimize contact with stormwater.

Pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscape materials must be under cover. Hazardous materials and toxic wastes must be properly stored in sealed containers to prevent spills, leaks or other discharge. Restricted access storage areas must be provided to prevent vandalism.

Solid waste must be stored, collected and disposed of in compliance with Minn. R. CH 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7043.

Discharge of spilled or leaked chemicals, including fuel, from any area where chemicals or fuel will be loaded or unloaded shall be prevented using drip pans or absorbents. Supplies shall be available at all times to clean up spilled materials and that an appropriate disposal method must be available for recovered spilled materials.

Spreader, vehicle or equipment washing on the project site shall be limited to a defined area of the site. Runoff from the washing area shall be contained in a sediment basin or other similarly effective control and waste from the washing activity must be properly disposed of. No engine degreasing is allowed on site. Effective control must be provided for all liquid and solid wastes generated by concrete and other washout operations related to construction activity shall be effectively contained. Liquid and solid washout waste shall not contact the ground, and containment must be designed so that it does not result in runoff from the washout operations or areas. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

**INFEEST WEATERS:**

MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by an infested water permit or written notification from MN DNR that an infested water permit is not required, and infested waters remain or written notification from MN DNR that an infested water permit is not required. There is no exception for installing permits. If a MN DNR permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR permit until an infested water permit or written notification that infested water is not required is obtained.

**INSPECTION & MAINTENANCE**

A trained person shall routinely inspect the entire construction site at least once every 7 days during active construction and once within 24-hour after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted within 7 days.

All inspections and maintenance conducted during construction must be recorded within 24 hours in writing and records must be retained with the SWPPP. Inspection report forms are available in the project specifications. Inspection report forms other than those provided shall be approved by the engineer.

Where parts of the project site have permanent cover, but work remains on other parts of the site, inspections may be reduced on these areas to once per month.

Where the site has permanent cover on all exposed areas and no construction activity is occurring anywhere on site, the site must be inspected during non-construction conditions at least once per month for 12 months. Following the 12th month of permanent cover or notification from MPCA has been issued that erosion has been detected at the construction activity resumption or notification from MPCA has been issued that erosion has been detected at the site.

During frozen ground conditions, inspections may be suspended and shall resume within 24 hours after runoff occurs or 24 hours prior to resuming construction activity, whichever is first.

Inspection and maintenance shall resume until another Permittee has obtained coverage under this Permit or the project has undergone Final Stabilization, and an NOI has been submitted.

All erosion prevention and sediment control BMPs shall be inspected to ensure integrity and effectiveness during all routine and post-rainfall inspections. All non-functional BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow access.

All perimeter control devices must be repaired, replaced, or supplemented when they become non-functional or the sediment reaches one-half (1/2) of the height of the device. These repairs must be made by the end of the next business day after discovery, or as soon as field conditions allow.

Temporary and permanent sediment basins must be defined and the sediment removed when the depth of sediment collected in the basin reaches one-half (1/2) the storage volume. Drainage and sediment removal must be completed within 72 hours of discovery, or as soon as field conditions allow.

Surface waters, including drainage ditches and conveyance systems, must be inspected for erosion and sediment deposition during each inspection. All debris and sediment deposited in drainage ways, catch basins, and other drainage systems shall be removed. The removal and stabilization must be done within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. The Permittee is responsible for obtaining all applicable permits prior to conducting any work in surface waters.

Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved roads. Tracked sediment must be removed from all paved surfaces both on and off site within 24-hours of discovery, or if applicable, within a shorter time to comply with the permit.

Streets and other areas subject to the project must be inspected for evidence of off-site accumulations of sediment. If sediment is present, it must be removed in a manner and at a sufficient frequency to minimize the infiltration areas and that equipment is not being driven across the infiltration areas.

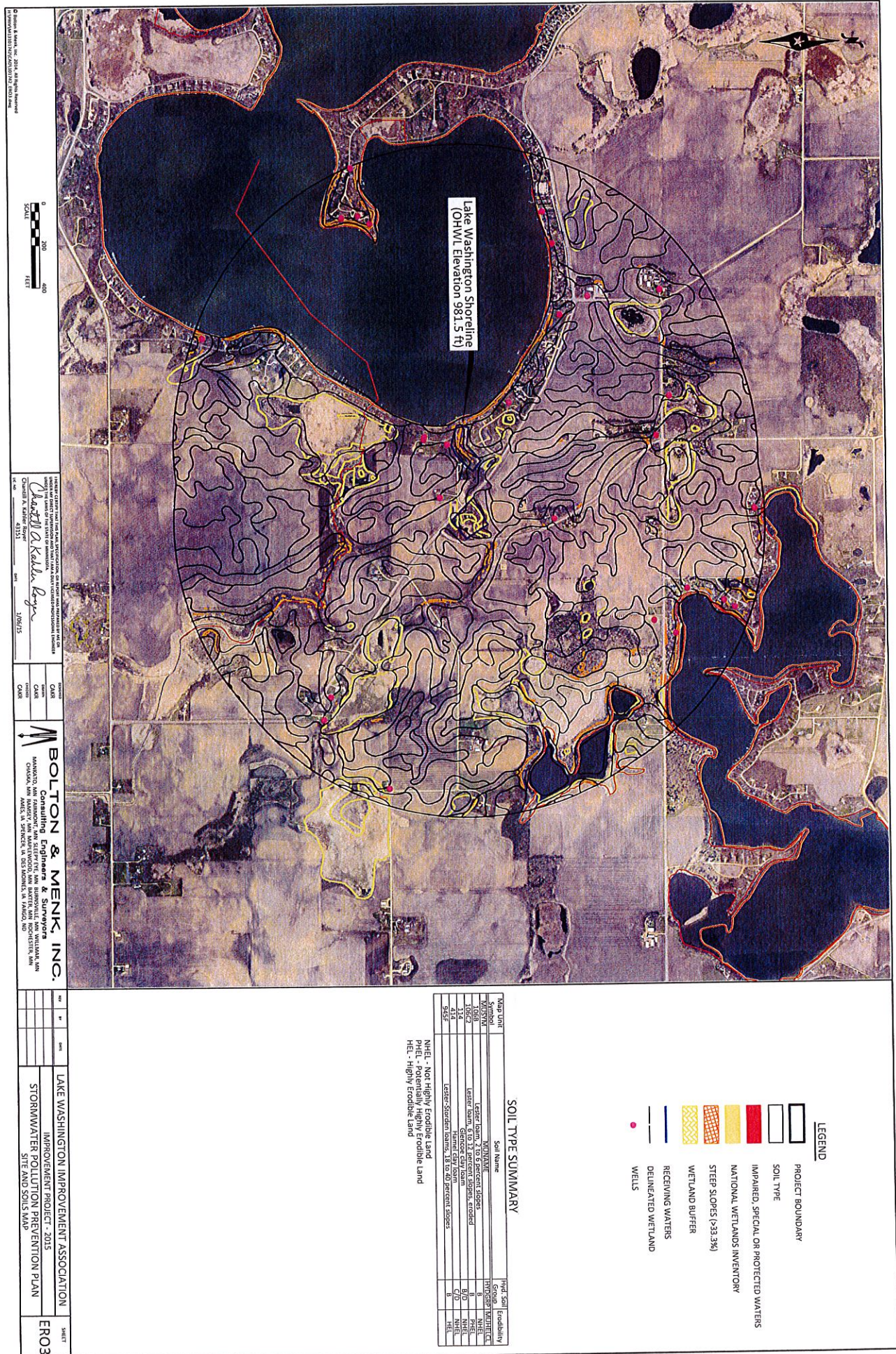
All infiltration areas must be inspected to ensure that no sediment from ongoing construction activity is reaching off-site impacts.

**FINAL STABILIZATION**

Final Stabilization is not complete until all of the following requirements have been met:

1. All soil disturbing activities at the site have been completed and all soils are stabilized by a uniform perennial vegetative cover with a density of 70% of its expected final growth density over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under eroded conditions.
2. Permanent stormwater management system is constructed, meets all requirements of the permit, and operating as designed. Temporary or permanent sedimentation basins on site must be cleaned of any accumulated sediment. All sediment has been removed from conveyance systems, and inlets are stabilized with permanent cover.
3. All temporary synthetic and structural erosion prevention and sediment control BMPs have been removed. BMPs designed to decompose on site may be left in place.

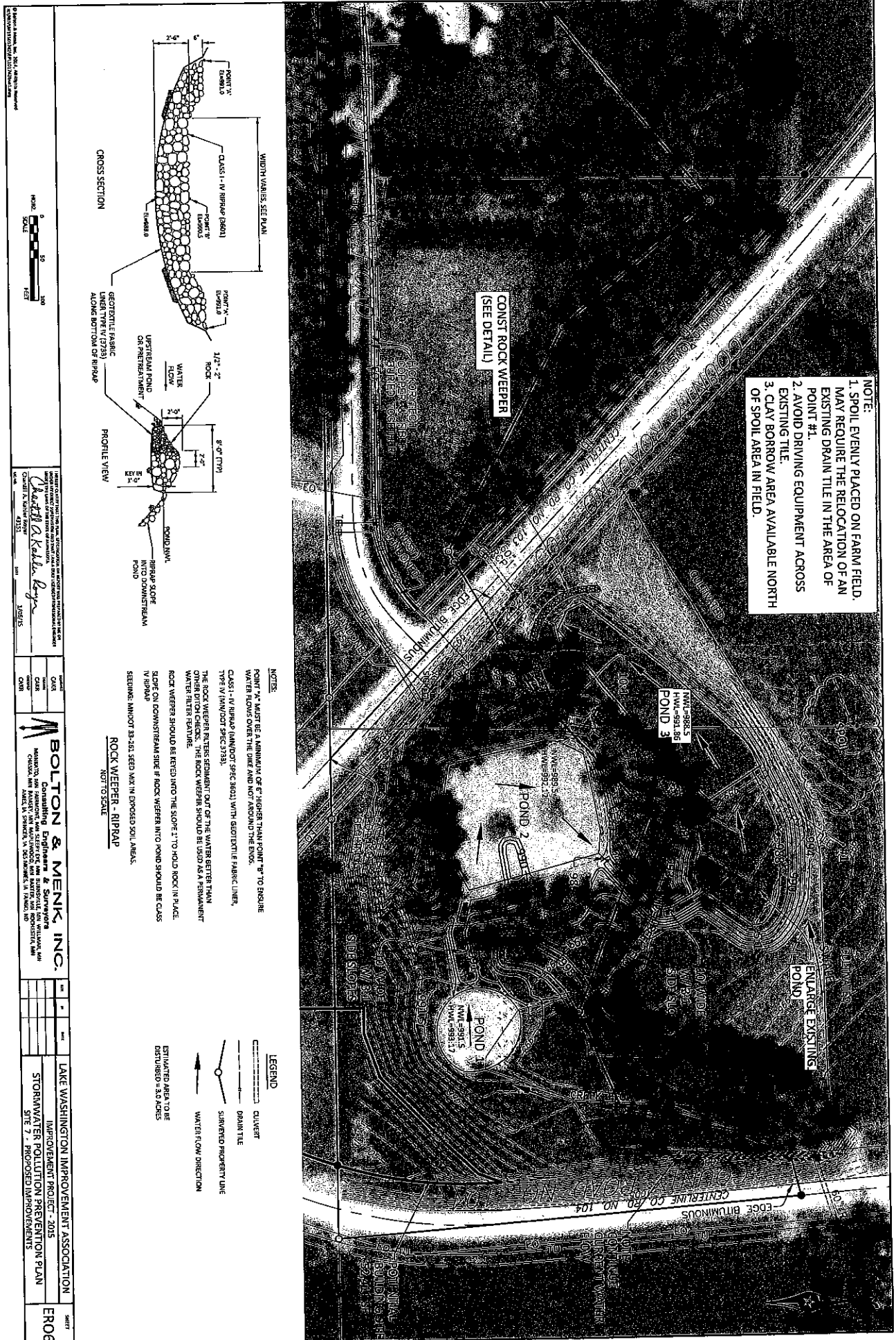
<p>PROJECT: LAKESHORE DRIVE, ST. LOUIS, MISSOURI                  OWNER: LAKESHORE DRIVE HOMEOWNERS ASSOCIATION                  ENGINEER: <i>Charles R. Kelly</i>                  DATE: 1/6/15</p>		<p>DATE: 1/6/15</p>
<p><b>BOLTON &amp; MENK, INC.</b>                  Consulting Engineers &amp; Surveyors                  10000 W. 104th Street, Suite 100                  Overland Park, MO 66204                  ANDREW A. SCHNEIDER, P.E., REG. ENGINEER IN MISSOURI</p>		<p>DATE: 1/6/15</p>
<p><b>LAKE WASHINGTON IMPROVEMENT ASSOCIATION</b>                  IMPROVEMENT PROJECT - 2015</p>		<p>DATE: 1/6/15</p>
<p><b>STORMWATER POLLUTION PREVENTION PLAN</b>                  NARRATIVE</p>		<p>DATE: 1/6/15</p>
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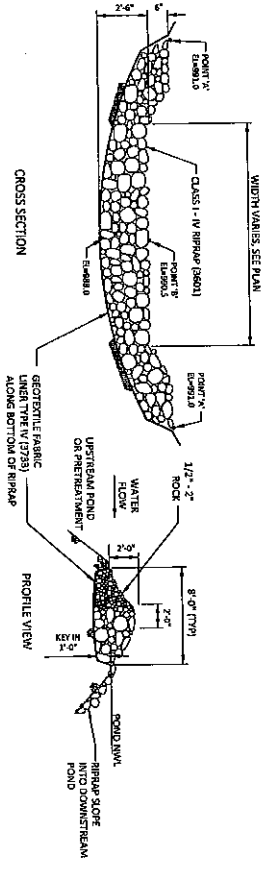






NOTE:  
 1. SPOIL EVENLY PLACED ON FARM FIELD, MAY REQUIRE THE RELOCATION OF AN EXISTING DRAIN TILE IN THE AREA OF POINT #1.  
 2. AVOID DRIVING EQUIPMENT ACROSS EXISTING TILE.  
 3. CLAY BORROW AREA AVAILABLE NORTH OF SPOIL AREA IN FIELD.

CONST ROCK WEEPER  
 (SEE DETAIL)

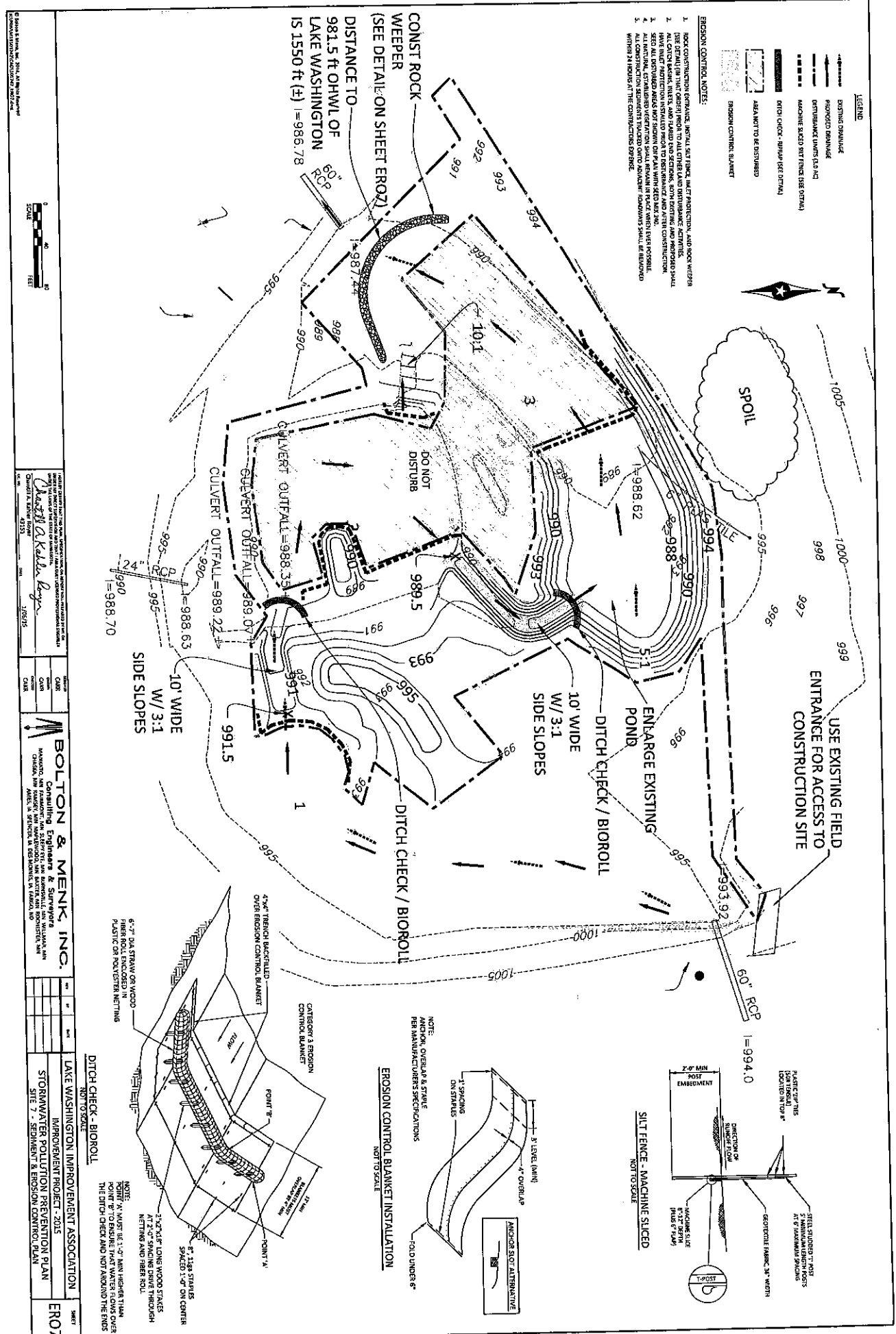


NOTES:  
 POINT #1 MUST BE A MINIMUM OF 8" HIGHER THAN POINT #2 TO ENSURE WATER FLOWS OVER THE SILL AND NOT AROUND THE ENDS.  
 CLASS I-IV RIPRAP (M/N/DOT SPEC 3803) WITH GEOTEXTILE FABRIC LINER, TYPE IV (M/N/DOT SPEC 3738).  
 THE ROCK WEEPER FILTERS SEDIMENT OUT OF THE WATER BETTER THAN OTHER FILTER CHECKS. THE ROCK WEEPER SHOULD BE USED AS A PERMANENT WATER FILTER FEATURE.  
 ROCK WEEPER SHOULD BE KEPT INTO THE SLOPE 1:1 TO HOLD ROCK IN PLACE.  
 SLOPE ON DOWNSTREAM SIDE IF ROCK WEEPER INTO POND SHOULD BE CLASS IV RIPRAP.  
 SEEDING: M/N/DOT 33-321 SEED MIX IN EXPOSED SOIL AREAS.  
 ROCK WEEPER - RIPRAP NOT TO SCALE

DATE: 10/15/15  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: LAKE WASHINGTON IMPROVEMENT ASSOCIATION  
 SHEET: ERO6

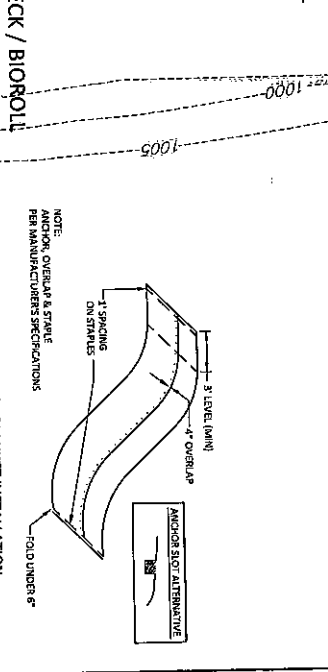
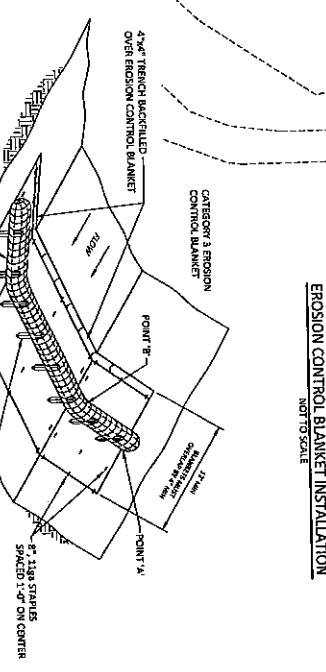
**BOLTON & MENK INC.**  
 Consulting Engineers & Surveyors  
 10000 15th Avenue NW  
 Shoreline, WA 98148  
 PHONE: 206.835.1100  
 FAX: 206.835.1101  
 WWW: www.boltonmenk.com

LAKE WASHINGTON IMPROVEMENT ASSOCIATION  
 IMPROVEMENT PROJECT - 2015  
 STORMWATER POLLUTION PREVENTION PLAN  
 SITE 7 - FISH AND WILDLIFE ENVIRONMENT



- LEGEND**
- EXISTING DRAINAGE
  - PROPOSED DRAINAGE
  - DISTURBANCE LIMITS (A & B)
  - MACHINE SLICED SIFTING (SEE DETAIL)
  - RICH CHECK - BIOPHASE (SEE DETAIL)
  - AREA NOT TO BE DISTURBED
  - EROSION CONTROL BLANKET
- EROSION CONTROL NOTES:**
1. ROCK CONSTRUCTION FORMING, MATERIAL NOT PERMITTED, AND ROCK WEAPERS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
  2. DISTURBED AREAS SHALL BE REVEGETATED WITH SEEDS AND MULCH AS SOON AS POSSIBLE.
  3. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH SEEDS AND MULCH AS SOON AS POSSIBLE.
  4. ALL CONSTRUCTION EQUIPMENT TRACKS SHALL BE MAINTAINED WITHIN 24 HOURS AT THE CONTRACTOR'S EXPENSE.

PROJECT TITLE: LAKE WASHINGTON IMPROVEMENT PROJECT - 2015 SHEET NO.: ERO7	
DATE: 1/26/15	DRAWN BY: [Name]
CHECKED BY: [Name]	SCALE: AS SHOWN
<b>BOLTON &amp; MENK, INC.</b> Consulting Engineers & Surveyors 1000 1st Street, NW Washington, DC 20004	
PROJECT LOCATION: LAKE WASHINGTON IMPROVEMENT PROJECT - 2015 SHEET 7 - EROSION CONTROL PLAN	



**CONSTR ROCK WEEPER**  
(SEE DETAIL ON SHEET ERO7)

**DISTANCE TO 981.5 ft OHWL OF LAKE WASHINGTON IS 1550 ft (+) = 986.78**

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