Minnesota Wetland Conservation Act
Notice of Application

Local Government Unit (LGU)	Address
Pennington County	**P. O. Box 616** **Thief River Falls, MN 56701**

1. PROJECT INFORMATION

Applicant Name	Project Name	Date of Application	Application Number
Red Lake Watershed District	**RLWD Ditch #14**	**May1, 2012**	**12-01**

Type of Application (check all that apply):

☒ Wetland Boundary or Type ☐ No-Loss ☐ Exemption ☐ Sequencing
☒ Replacement Plan ☐ Banking Plan

Summary and description of proposed project (attach additional sheets as necessary):

The original application was received on December 18, 2011. A revised wetland delineation was submitted on March 21, 2012. A new application was received on May 1, 2012 after a field review by the Army Corps of Engineers. The project consists of improving and enlarging cross-sections, adding storm sewer, improving ditch grades, improving flows by removing vegetation within the channel, and improving culverts within the ditch alignments. A diversion is planned along CSAH 8 to the west, outletting into the Red Lake River downstream of TRF. Another lateral ditch (Aaseby) will be cleaned. HDR Engineering has completed a wetland delineation to identify wetland areas in order to avoid impacts from the ditch improvement project. Proposed impacts total 0.394 acres. Replacement wetlands will be acquired from the Red Lake Watershed District Wetland Bank site in Red Lake County.

2. APPLICATION REVIEW AND DECISION

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 3 provides notice that an application was made to the LGU under the Wetland Conservation Act as specified above. A copy of the application is attached. Comments can be submitted to:

Name and Title of LGU Contact Person	Comments must be received by (minimum 15 business-day comment period):
Bryan Malone **District Manager**	**June 22, 2012**
Address (if different than LGU) **Pennington SWCD** **201 Sherwood Ave S** **Thief River Falls, MN 56701**	Date, time, and location of decision: **June 26, 2012** **5:00 pm** **Pennington County Courthouse**
Phone Number and E-mail Address **218-683-7075** **bryan.malone@mn.nacdnet.net**	Decision-maker for this application: ☐ Staff ☒ Governing Board or Council

Signature: Bryan E. Malone **Date:** 5/22/12

3. LIST OF ADDRESSEES

- ☒ SWCD TEP member: **Bryan Malone**

- ☒ BWSR TEP member: **Steve Hofstad**
- ☒ LGU TEP member (if different than LGU Contact): **Mike Flaagan**
- ☒ DNR TEP member: **Area Hydrologist**
- ☐ DNR Regional Office (if different than DNR TEP member)
- ☒ WD or WMO (if applicable): **Red Lake Watershed District**
- ☒ Applicant (notice only) and Landowner (if different)
- ☐ Members of the public who requested notice (notice only):

- ☒ Corps of Engineers Project Manager (notice only)
- ☐ BWSR Wetland Bank Coordinator (wetland bank plan applications only)

4. MAILING INFORMATION

➢For a list of BWSR TEP representatives: www.bwsr.state.mn.us/contact/WCA_areas.pdf

➢For a list of DNR TEP representatives: www.bwsr.state.mn.us/wetlands/wca/DNR_TEP_contacts.pdf

➢Department of Natural Resources Regional Offices:

NW Region:	NE Region:	Central Region:	Southern Region:
Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.	Reg. Env. Assess. Ecol.
Div. Ecol. Resources	Div. Ecol. Resources	Div. Ecol. Resources	Div. Ecol. Resources
2115 Birchmont Beach Rd. NE	1201 E. Hwy. 2	1200 Warner Road	261 Hwy. 15 South
Bemidji, MN 56601	Grand Rapids, MN 55744	St. Paul, MN 55106	New Ulm, MN 56073

For a map of DNR Administrative Regions, see: http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf

➢For a list of Corps of Project Managers: www.mvp.usace.army.mil/regulatory/default.asp?pageid=687
or send to:

➢

US Army Corps of Engineers
St. Paul District, ATTN: OP-R
180 Fifth St. East, Suite 700
St. Paul, MN 55101-1678

➢For Wetland Bank Plan applications, also send a copy of the application to:

Minnesota Board of Water and Soil Resources
Wetland Bank Coordinator
520 Lafayette Road North
St. Paul, MN 55155

5. ATTACHMENTS

In addition to the application, list any other attachments:

- ☐
- ☐
- ☐
- ☐
- ☐

Received 5/1/12

404 Permit Application Package

for

Thief River Falls Flood Damage Reduction Project and Improvement to Pennington County Ditch #1 (RLWD Ditch # 14)

Pennington County, Minnesota

May 2012

Prepared for:

Red Lake Watershed District

Prepared by:

HDR Engineering Inc.
701 Xenia Ave S, Suite 600
Minneapolis, MN 55416

Minnesota Local/State/Federal Application Forms for Water/Wetland Projects

USE THIS APPLICATION FOR ANY PROJECT AFFECTING A LAKE, RIVER, STREAM OR WETLAND, INCLUDING:

Local Government Unit Approval Pursuant to Minnesota Wetlands Conservation Act (WCA)
Minnesota Department of Natural Resources (DNR) Permit to Work in Public Waters
Department of the Army Permit (33 CFR 325)

Note: The U.S. Army Corps of Engineers (**COE**) will forward application forms to the Minnesota Pollution Control Agency (**MPCA**) for processing if state water quality certification is required from the MPCA. You **do not** need to send this application to the MPCA.

This application packet includes :

Part I: The **BASIC APPLICATION** and the **COE APPLICATION** to be filled out by all applicants (see Instructions).

PART II: The **REPLACEMENT PLAN SUPPLEMENT** to be completed ***only for*** projects that impact wetlands and require a replacement plan for wetland mitigation. **If you're not sure** whether your project requires a replacement plan, call your Local Government Unit (LGU) or Soil and Water Conservation District (SWCD) office for guidance.

Do not proceed with your project until you have received all required approvals from your LGU, the DNR and the COE. If you wish to confirm the status of your application at any time, contact the agencies directly (see Instructions, page 2). **Proceeding with work before all required authorizations are obtained may result in fines or other penalties, and may include a requirement to restore the project site to original condition.**

If you have questions or need assistance with filling out these forms, contact your local SWCD office, your LGU, your Area DNR Waters office, or your COE field office (see Instructions, page 2).

If you believe that your project may be subject to watershed district, local zoning, or any other local regulations besides those of your LGU, contact those office(s) directly. **If you are a Federal Farm Program participant** and your project affects a wetland or water body on agricultural land, your eligibility for USDA benefits may be affected. Contact a Natural Resources Conservation Service office for further information.

A QUICK LOOK AT THE PROJECT APPLICATION PROCESS

Electronic files: Forms can be downloaded and filled out using Microsoft Word. Your input will be restricted to fill-in fields where users can enter text or check boxes. These areas appear gray on the screen, but not on the printed document.

Send copies of these completed application forms to your LGU, your Area DNR Waters office, and your COE regulatory office.

Any of the agencies may make initial contact with you to: a) inform you that it has no jurisdiction over your project; b) request additional information needed; or c) inform you of applicable fees.

When your application is considered complete and appropriate fees have been received (if requested) it will be distributed for appropriate review.

Following agencies' reviews, you will be informed if it has been approved, approved with changes or conditions, withdrawn, or denied.

For information about state laws, rules and regulations that direct this process go to the web site www.revisor.leg.state.mn.us. For information on U.S. Army Corps of Engineers regulations go to the web site www.mvp.usace.army.mil.

Instructions for Part I

HELP 1: Every applicant must fill out Section 1. The applicant is the person, agency, company, corporation, or other organization that owns, leases, or holds other legal rights to the land where the project is located. Indicate names of multiple applicants on a separate sheet.

HELP 1A: Fill out Section 1A only if you have designated an authorized agent. An authorized agent may be an attorney, builder, consultant, contractor, engineer, or any other person or organization designated by the applicant to represent him/her in this process. An agent is not required.

HELP 5: Purpose, description and dimensions of project: State briefly (in a sentence or two) what you propose to do and why it is needed. Also, describe whether your project will involve any of the following:

- Construction of structures, filling, draining, dewatering, removing, excavating or repair.
- Construction of an access path, bridge, culvert, dam, ditch, dock, driveway, riprap, road, sand blanket, shore protection, or tile line.
- Construction of any structures on fill, piles or a float-supported platform. If so, describe.
- Dredging or discharging (placing fill material) into a wetland or other water body (including the temporary placement of material). If so, explain the specific purpose of the placement of the material (such as erosion control) and indicate how it will be done (such as with a backhoe or dragline). If dredged material is to be discharged on an upland site, identify the location of the site.

Include an overhead view drawing showing the work to be undertaken and its relative location on the property. Show items such as property boundaries or lot dimensions; location and extent of shoreline, wetlands and water; location and dimensions and footprint of the proposed project, structure or activity (include length, width, elevation and other measurements as appropriate); points of reference such as existing homes, structures, docks or landscape features; indication of north; and location of spoil and disposal sites (if applicable). Hand drawn, computer generated or professionally prepared drawings are acceptable, as long as they contain all necessary information clearly, accurately, and in adequate detail. Please include specific dimensions whenever possible. You may also include photos, if you wish. Paper copies should be limited to maximum dimensions of 11" by 17". Computer files should be viewable in a PDF format; contact the agency for other usable formats.

HELP 7: For information regarding adjacent landowners, contact the tax assessor where the project is to be developed.

HELP 8: If any part of the work has already been completed, describe the area already developed. Include a description of structures completed; any dredged or fill material already discharged (including type of material and volume in cubic yards); acres or square feet filled (if a wetland or other water body); and whether the work was done under an existing permit (if so identify the authorization, if possible).

HELP 9: Other permits, reviews or approval related to the project may include the following: conditional use permit; plat approval; zoning variance; National Pollutant Discharge Elimination System permit; state disposal system permit (includes dredged material disposal); watershed district/watershed management organization permit (stormwater, erosion, floodplain); environmental assessment worksheet/environmental impact statement; hazardous waste site; feedlot permit; groundwater appropriation permit; or county/township driveway/road permit. Are you aware of any archeological or cultural resource determinations or surveys completed concerning the project or replacement site by the State Historic Preservation Office (SHPO) or others? If yes, please explain on a separate sheet or attach a copy of any determinations or surveys.

Final Checklists (Part I)

- ☐ **Have you completed all of Part I** (Page 1), plus the Federal application (Page 2)?
- ☐ **Did you (and your agent, if applicable) sign Section 10** on page 1?
- ☐ **Have you signed the Application for the Department of the Army Permit** (Page 2) to seek Federal authorization of your project?
- ☐ **Have you included the necessary attachments for Part I**?

Attachments *must* include:

- ☐ Site Locator Map (Section 3)
- ☐ Type of Project (Section 4) (if additional space was needed)
- ☐ Overhead View of Project (Section 5 and HELP 5)
- ☐ Project Purpose, Description and Dimensions (Section 5) (if additional space was needed)

Attachments *may* also include:

- ☐ Applicant Contact Information (HELP 1) (if additional space was needed)
- ☐ Project Location (Section 3) (if additional space was needed)
- ☐ Project Alternatives (Section 6) (if additional space was needed)
- ☐ Photographs
- ☐ Adjoining Property Owners (Section 7) (if additional space was needed)
- ☐ Work Already Completed Section (Section 8) (if you answered YES)
- ☐ State Historic Preservation Office determination or survey

Submitting Your Application

Make three copies of the entire application and all attachments. Keep the original, and mail **a complete copy of your application to each of the local, state, and Federal entities listed below.** Be sure to include Part I and all attachments with each application.

LOCAL: Send to the appropriate Local Government Unit (LGU). If necessary, contact your county Soil and Water Conservation District (SWCD) office or visit the Board of Water and Soil Resources (BWSR) web site (www.bwsr.state.mn.us) to determine the appropriate LGU.

STATE: Send to your Area DNR Waters office, attention Area Hydrologist. If necessary, contact your county Soil and Water Conservation District (SWCD) office or visit the DNR website (www.dnr.state.mn.us) to locate the Area Hydrologist for your location, or contact a Regional DNR office:

NW Region:
2115 Birchmont Beach Road N.E.
Bemidji, MN 56601
Phone: 218-755-3973

NE Region:
1201 East Highway 2
Grand Rapids, MN 55744
Phone: 218-327-4416

Central Region:
1200 Warner Road
St. Paul, MN 55106
Phone: 651-772-7910

Southern Region:
261 Highway 15 South
New Ulm, MN 56073
Phone: 507 359-6053

FEDERAL: Send to the appropriate U.S. Army Corps of Engineers regulatory field office:

Brainerd:
U.S. COE, Regulatory Branch
10867 E. Gull Lake Drive N.W.
Brainerd, MN 56401-9051
Phone: 218-829-8402

St. Paul:
U.S. COE, Regulatory Branch
Army Corps of Engineers Centre
190 5th Street East
St. Paul, MN 55101-9051
Phone: 651-290-5375

La Crescent:
U.S. COE, Regulatory Branch
1114 South Oak Street
La Crescent, MN 55947-1338
Phone: 507-895-8059

Two Harbors:
U.S. COE, Regulatory Branch
1554 Highway 2, Suite 2
Two Harbors, MN 55616
Phone: 218-834-6630

WEB SITES: BWSR: www.bwsr.state.mn.us U.S. ACOE: www.mvp.usace.army.mil DNR: www.dnr.state.mn.us MPCA: www.pca.state.mn.us

Minnesota Local/State/Federal Application Form for Water/Wetland Projects

For Internal Use Only			
Application No.	Field Office Code	Date Initial Application Received	Date initial Application Deemed Complete

PART I: BASIC APPLICATION

"See HELP" directs you to important additional information and assistance in Instructions, Page 1.

1. LANDOWNER/APPLICANT CONTACT INFORMATION ***(See Help 1)***

Name: Myron Jesme Phone: 218-681-5800 E-mail: jesme@wiktel

Complete mailing address: Red Lake Watershed District; 1000 Pennington Avenue South; Thief River Falls, MN

1A. AUTHORIZED AGENT ***(See Help 1A)*** ***(Only if applicable; an agent is not required)***

Name: Phone: E-mail:

Complete mailing address:

2. NAME, TYPE AND SIZE OF PUBLIC WATERS or WETLANDS IMPACTED (Attach *Additional Project Area* sheets if needed)

Name or I.D. # of Waters Impacted (if applicable; if known):

(Check all that apply): ☐ Lake ☐ River ☒ Circular 39 Wetland type: ☐ 1, ☐ 1L, ☒ 2, ☐ 3, ☐ 4, ☐ 5, ☐ 6, ☒ 7, ☐ 8

Wetland plant community type[1]: ☐ shallow open water, ☐ deep marsh, ☐ shallow marsh, ☐ sedge meadow, ☐ fresh meadow, ☐ wet to wet-mesic prairie, ☐ calcareous fen, ☐ open bog or coniferous bog, ☐ shrub-carr/alder thicket, ☐ hardwood swamp or coniferous swamp, ☒ floodplain forest, ☒ seasonally flooded basin

Indicate size of entire lake or wetland (check one): ☒ Less than 10 acres (indicate size: 0.394) ☐ 10 to 40 acres ☐ Greater than 40 acres

3. PROJECT LOCATION *(Information can be found on property tax statement, property title or title insurance):*

Project street address: SEE ATTACHMENT A Fire #: City (if applicable): See

See ATTACHMENT B for Twnshp, Rng, and Sec.

¼ Section: Section: Township #: Range #: County:

Lot #: Block: Subdivision: Watershed (name or #) UTM location: N E

Attach a simple site locator map. If needed, include on the map written directions to the site from a known location or landmark, and provide distances from known locations. Label the sheet *SITE LOCATOR MAP.*

4. TYPE OF PROJECT: Describe the type of proposed work. Attach *TYPE OF PROJECT* sheet if needed.

Drainage Ditch Improvements SEE ATTACHMENT B

5. PROJECT PURPOSE, DESCRIPTION AND DIMENSIONS: Describe what you plan to do and why it is needed, how you plan to construct the project with dimensions (length, width, depth), area of impact, and when you propose to construct the project. **This is the most important part of your application. See HELP 5 before completing this section; see What To Include on Plans** (Instructions, page 1). Attach *PROJECT DESCRIPTION* sheet.

SEE ATTACHMENT B

Footprint of project: acres or square feet drained, filled or excavated.

6. PROJECT ALTERNATIVES: What alternatives to this proposed project have you considered that would avoid or minimize impacts to wetlands or waters? List at least **TWO** additional alternatives to your project in Section 5 that avoid wetlands (one of which may be "no build" or "do nothing"), and explain why you chose to pursue the option described in this application over these alternatives. Attach *PROJECT ALTERNATIVES* sheet if needed.

SEE ATTACHMENT B

7. ADJOINING PROPERTY OWNERS: For projects that impact more than 10,000 square feet of water or wetlands, list the complete mailing addresses of adjacent property owners on an attached separate sheet. (See **HELP 7**)

8. PORTION OF WORK COMPLETED: Is any portion of the work in wetland or water areas already completed? ☐ Yes ☒No. If yes, describe the completed work on a separate sheet of paper labeled **WORK ALREADY COMPLETED**. (See **HELP 8**)

9. STATUS OF OTHER APPROVALS: List any other permits, reviews or approvals related to this proposed project that are either **pending** or **have already been approved or denied on a separate attached sheet. See HELP 9.**

10. I am applying for state and local authorization to conduct the work described in this application. I am familiar with the information contained in this application. To the best of my knowledge and belief, all information in Part I is true, complete, and accurate. I possess the authority to undertake the work described, or I am acting as the duly authorized agent of the applicant.

Myron Jesme 4-30-12 SIGN HERE

Signature of applicant (Landowner) *Date* *Signature of agent (if applicable)* *Date*

This block must be signed by the person who desires to undertake the proposed activity and has the necessary property rights to do so. If only the Agent has signed, please attach a separate sheet signed by the landowner, giving necessary authorization to the Agent.

[1]See ***Wetland Plants and Plant Communities of Minnesota and Wisconsin (Eggers and Reed, 1997)*** **as modified by the Board of Water and Soil Resources, United States Army Corps of Engineers.**

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT (33 CFR 325) **OMB APPROVAL NO. 0710-003 Expires Dec 31, 2004**

The public burden for this collection of information is estimated to average 10 hours per response, although the majority of applications should require 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003), Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of these addresses. Completed applications must be submitted to the District engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT: Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413, Section 103. Principal purpose: Information provided on this form will be used in evaluating the application for a permit. Routine uses: This information may be shared with the Department of Justice and other Federal, state, and local government agencies. Submission of requested information is voluntary; however, if information is not provided, the permit application cannot be evaluated nor can a permit be issued.

ITEMS 1 THROUGH 4 TO BE FILLED IN BY THE CORPS

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED

YOU *DO NOT* NEED TO COMPLETE ITEMS 6-10 and 12-25 in the SHADED AREAS.

All applicants must complete **non-shaded** items 5 and 26. If an agent is used, **also** complete items 8 and 11. This optional Federal form is valid for use ***only*** when included as part of this entire state application packet.

5. APPLICANT'S NAME Myron Jesme	8. AUTHORIZED AGENT'S NAME AND TITLE (an agent is not required)
6. APPLICANT'S ADDRESS	9. AGENT'S ADDRESS
7. APPLICANT'S PHONE NO.	10. AGENT'S PHONE NO.

11. STATEMENT OF AUTHORIZATION (*if applicable; complete* **only** *if authorizing an agent)*

I hereby authorize to act on my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

APPLICANT'S SIGNATURE: _____ DATE: _____

12. PROJECT NAME OR TITLE (see instructions)	
13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)
15. LOCATION OF PROJECT	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)	
17. DIRECTIONS TO THE SITE	18. NATURE OF ACTIVITY
19. PROJECT PURPOSE	20. REASON(S) FOR DISCHARGE
21. TYPES OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS	
22. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED	
23. IS ANY PORTION OF THE WORK ALREADY COMPLETE? YES _____ NO ___ IF YES, DESCRIBE COMPLETED WORK.	
24. ADDRESSES OF ADJOINING PROPERTY OWNERS,	
25. LIST OF OTHER CERTIFICATIONS OR APPROVALS/DENIALS RECEIVED FROM OTHER FEDERAL, STATE OR LOCAL AGENCIES FOR WORK DESCRIBED IN THIS APPLICATION.	

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Myron Jesme 4-30-12 SIGN HERE

Signature of applicant — Date — Signature of agent (if any) — Date

The application must be signed by the person who desires to undertake the proposed activity (applicant), or it may be signed by a duly authorized agent if the statement in Block 11 has been filled out and signed. **18 U.S.C. Section 1001** provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up with any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

ENG FORM 4345, Jul 97 EDITION OF FEB 94 IS OBSOLETE. (Proponent: CECW-OR)

FOR LGU USE ONLY:

Determination for Part 1:
- ☐ No WCA Jurisdiction
- ☐ Exempt: No. ____ (per MN Rule 8420.0122)
- ☐ No Loss: ____ (A,B,. . .G, per MN Rule 8420.0220)
- ☒ Wetland Boundary or type
- ☒ Replacement required – applicant must complete Part II

COMPLETE THE SECTION BELOW ONLY IF REPLACEMENT IS NOT REQUIRED:

Application is (check one): ☐ Approved ☐ Approved with conditions (conditions attached) ☐ Denied

PLEASE SIGN & DATE

Comments/Findings: _____

_____ _____

LGU official signature *Date*

_____

Name and Title

For Agricultural and Drainage exemptions (MN Rule 8420.0122 Subps. 1 and 2B), LGU has received proof of recording of restrictions (per MN Rule 8420.0115):

_____ _____ _____

County where recorded *Date* *Document # assigned by recorder*

_____ _____

LGU official signature *Date*

Instructions For Part II

Complete those portions of Part II: Replacement Plan Supplement for which information is readily available (such as location, existing land use, size of impact area, etc.) A person certified in wetland delineation must determine items pertaining to specific wetland impacts (wetland type, predominant vegetation, watershed name, etc.) Contact the local soil and water conservation district (SWCD) office for further information on obtaining such items.

What to Include on Plans

Detailed overhead views of replacement site(s) (Part II), as well as profile view(s) of replacement site(s) (Part II), may be either hand drawn, computer generated or professionally prepared, as long as they contain all necessary information clearly, accurately, and in adequate detail. Please include specific dimensions whenever possible. You may also include photos, if you wish.

Overhead views of Part II replacement site(s) should include the following items that pertain to your project:

- Property boundaries and/or lot dimensions.
- Location and extent of shoreline, wetlands and water.
- Location and dimensions of proposed project, structure or activity. Include length, width, elevation and other measurements as appropriate.
- Points of reference (such as existing homes, structures, docks or landscape features).
- Location of inlet and outlet structures.
- Indication of north.
- Location of spoil and disposal sites (if applicable).
- Areas of wetland and upland plants established.

Profile views (side or cross-sectional views) should include the following items that pertain to your project:

- Location and dimensions of proposed project, structure or activity. Include elevation, depth, soil profile, side slope and other measurements as appropriate.
- Proposed water level elevation.

Final Checklists
Part II: Replacement Plan Supplement

☐ **Have you completed all of Part II** (pages 3-5)?
☐ **Did you (or your agent) sign Section 19** on page 5?
☐ **Have you included the necessary attachments for Part II?**

Attachments *must* include:
☐ **If the project includes any wetland banking** (complete or partial), include Application for Withdrawal of Wetland Credits Form (Section 14)
☐ **If the project includes any project-specific replacements** (complete or partial), include:
- Description of Replacement Wetland(s) Construction (Section 15)
- Copy of vegetation management plan (Section 15)
- Scale drawing of overhead view or replacement wetland (Section 18)
- Scale drawing of profile view of replacement wetland (Section 18)

Attachments *may* also include:
☐ Additional description of Wetland Impact Charts (Section 11) (if additional space was needed)
☐ Additional Description of Replacement Wetlands charts (Section 17) (if additional space was needed)
☐ Additional soils information for created replacement wetland(s) (Section 18) (if available)

Note: To deposit surplus wetland credits in the State Wetland Bank, submit a Wetland Banking Application directly to your LGU (Section 16).

Preparing Your Application for Mailing

☐ **To apply for both state and Federal authorization, your application must include Part I** (Page 1), **the Federal application** (Page 2), **and attachments** as indicated on *Final Checklist for Part I* (Instructions, Page 2).
☐ **Your application must also include Part II** (Pages 3-5) and additional attachments as indicated on *Final Checklist for Part II* (above).
☐ **Make three copies of the entire application and all attachments.** Keep the original, and mail the three copies to the appropriate local, state, and Federal agencies (see Instructions for Part I for addresses).

PART II: REPLACEMENT PLAN SUPPLEMENT

For assistance in completing Part II, contact your Local Government Unit or a professional consultant

11. DESCRIPTION OF WETLAND IMPACTS: Complete the chart below: 1) Use one row of boxes for each wetland impact; 2) If your project has more than one wetland impact, reference your overhead view (part of Section 5) to this chart by identifying and labeling "first impact" and "second impact" **on your overhead view;** 3) If you are identifying only one wetland type within a given wetland impact area, use the first dotted line and leave the others blank; 4) If you have chosen to identify more than one wetland type within a given wetland impact area, use the extra dotted lines to indicate each wetland type, and identify predominant vegetation and size of impacted area **for each separate wetland type within that impact area;** 5) If you do not have access to some of this information, call your LGU or SWCD office for assistance. *(Photocopy chart for more impacts, if needed.)*

DESCRIPTION OF WETLAND IMPACTS

Wetland impact *(as noted on overhead view)*	Watershed name or number *(if known)*	Watershed and Bank Service Area	Wetland plant community type[1]	Predominant vegetation in impacted wetland area	Size of area impacted (in acres or square feet)	Existing land use in project area (check all that apply)
First impact	Red Lake River (63)	**Red Lake River (63)**	PEMC/PFOC (Type 2/7)	Reed Canary Grass/Silver Maple	0.394	☐ **Housing** ☐ **Commercial** ☐ **Industrial** ☐ **Parks/recreation areas** ☐ **Highways and associated rights-of-way** ☒ **Forested** ☒ **Farmsteads/agricultural** ☐ **Vacant lands** ☐ **Public and semi-public (schools/gov't facilities)** ☐ **Airports** ☐ **Extractive (gravel pits/quarries)** ☐ **Other:**
Second impact						

[1]If you are identifying only one wetland type within a given wetland impact area, use the first dotted line and leave the others blank. If you have chosen to identify more than one wetland type within a given wetland impact area, use the extra dotted lines to indicate each separate wetland type, and identify predominant vegetation and size of impacted area **for each separate wetland type with that impact area.**

***TOTALS* OF AREA(S) IMPACTED FOR EACH WETLAND TYPE ON CHART** (*indicate acres* ☒ *or square feet* ☐)

Wetland plant community type [1]: Shallow open water: **Deep marsh**: **Shallow Marsh**: **Sedge meadow**:
Fresh wet meadow: **Wet to wet mesic prairie**: **Calcareous fen**: **Open bog or coniferous bog**: **Shrub carr or alder thicket**:
Hardwood swamp or coniferous swamp: **Floodplain forest** 0.197 **Seasonally flooded basin** 0.197

12. SPECIAL CONSIDERATIONS: Are you aware of any special considerations that apply to either the impact site(s) or the replacement site(s)? ☐ Yes ☒ No (Examples: the presence of endangered species, special fish and wildlife resources, sensitive surface waters, or waste disposal site.) If YES, list and describe briefly.

13. SHORELAND IMPACT ZONE: Please identify each wetland impact site noted in Section 15 that is within 1000 feet of a lake or 300 feet of a river.

[1] **See *Wetland Plants and Plant Communities of Minnesota and Wisconsin (Eggers and Reed, 1997)* as modified by the Board of Water and Soil Resources, United States Army Corps of Engineers.**

14. HOW PROPOSED REPLACEMENT WILL BE ACCOMPLISHED: Indicate how proposed replacement will be accomplished (check only **one** box below and continue as indicated):

☒ A. Wetland banking credits only
Complete *Application for Withdrawal of Wetland Credits Form* and include with your application. Copies of this form are available from your LGU, or download a copy from www.bwsr.state.mn.us

Skip to Section 19, page 6 (You do not need to complete Sections 15-18).

☐ B. Project-specific replacement only
Continue with Section 15 below.

☐ C. A Combination of wetland banking and project-specific replacement. If using project specific replacement that will result in surplus wetland credits that you propose to deposit in the state wetland bank for future use, then you must submit a wetland banking application directly to your LGU before or concurrently with submittal of this form. Also, Complete *Application for Withdrawal of Wetland Credits Form* and include with your application. Copies of this form and the wetland banking application is available from your LGU, or download a copy from www.bwsr.state.mn.us
Continue with Section 15 below.

15. DESCRIPTION OF REPLACEMENT WETLAND(S) CONSTRUCTION (Complete this section only if you marked Box B or Box C in Section 14 above):
Describe in detail how replacement wetland(s) will be constructed. If several methods will be used, describe each method. Details should include the following: 1) type of construction (such as excavated in upland, restored by tile break, restored by ditch block or revegetated); 2) type, size and specifications of outlet structures; 3) elevations relative to Mean Sea Level or established benchmarks or key features (such as sill, emergency overflow or structure height); 4) what best management practices will be implemented to prevent erosions or site degradation; 5) proposed timetable for starting and ending the project; and 6) a vegetation management plan. Write this description on a separate sheet of paper labeled *DESCRIPTION OF REPLACEMENT WETLAND CONSTRUCTION.*

16. SURPLUS WETLAND CREDITS: If using project-specific replacement (Box B or Box C in Section 14 above), will the replacement result in any surplus wetland credits that you wish to have deposited in the State Wetland Bank for future use? ☐ Yes ☐ No. If yes, **submit a Wetland Banking Application directly to your LGU** before or concurrently with submittal of this form. Copies are available from your LGU, or download a copy from www.bwsr.state.mn.us

17. DESCRIPTION OF REPLACEMENT WETLANDS: Complete the chart below: 1) Use one row of boxes for each wetland replacement site; 2) If your project has more that one wetland replacement site, reference your overhead view (part of Section 5) to this chart by identifying and labeling "first replacement site" and "second replacement site" **on your overhead view;** 3) If you are identifying only one wetland type within a given replacement site, use the first dotted line(s) and leave the others blank; 4) If you have chosen to identify more than one wetland type in a given replacement site, use the extra dotted lines to indicate each separate wetland type, and identify type(s) of replacement credits and "restored or created" **for each separate wetland type with that replacement site;** 5) If you do not have access to some of the information, or if you do not know your replacement ratio, call your LGU or SWCD office for assistance. *Photocopy chart for more wetland replacements, if needed.)*

DESCRIPTION OF REPLACEMENT WETLANDS

Identify Wetland replacement site *(as noted on overhead view)*	Watershed name or number *(if known)* Bank Service Area	County	Section, Township, Range	Wetland Plant Community Type[1]	Type(s) of replacement credits *(in acres or square feet)*		Restored or created? Indicate R or C
					New Wetland Credits (NWC)	Public Value Credits (PVC)	
Name of First replacement site	Red Lake (63)	Pennington	S18 T151N R45W	3	0.394	0.394	R
Name of Second replacement site							
					0.394 TOTAL NWC	0.394 TOTAL PVC	

If you are identifying only one wetland type within a given wetland impact area, use the first dotted line and leave the others blank. If you have chosen to identify more than one wetland type within a given wetland impact area, use the extra dotted lines to indicate each separate wetland type, and identify predominant vegetation and size of impacted area **for each separate wetland type within that impact area.**

REQUIRED REPLACEMENT RATIO: *(If known)* 2:1

Wetland plant community type: Shallow open water: **Deep marsh**: **Shallow Marsh**: 0.394 **Sedge meadow**:
Fresh wet meadow: **Wet to wet mesic prairie**: **Calcareous fen**: **Open bog or coniferous bog**: **Shrub carr or alder thicket**:
Hardwood swamp or coniferous swamp: **Floodplain forest** **Seasonally flooded basin**

*** See *Wetland Plants and Plant Communities of Minnesota and Wisconsin (Eggers and Reed, 1997)* as modified by the Board of Water and Soil Resources, United States Army Corps of Engineers.**

18. ADDITIONAL INFORMATION REQUIRED FOR PROJECT-SPECIFIC REPLACEMENT (Required *only* if you marked Box B or Box C in Section 14): For projects involving at least some project-specific replacement, include the following additional information:

☐ **Two drawings to scale** of the replacement wetland. Include both overhead view and profile (side view or cross-sectional view). See *What to Include on Plans* (Instructions, Page 3) for a detailed description of what should be included in these drawings. Without drawings, **your application will be considered incomplete.**

☐ **For created replacement wetlands,** include additional soils information (if available) that indicates the capability of the site to produce and maintain wetland characteristics.

Note 1: For replacement wetlands located on pipeline easements, you need to receive endorsement of your project from both the easement holder and the Minnesota Department of Public Safety's Office of Pipeline Safety. Before start of construction, the owner of any utilities must be notified. The landowner or contractor is responsible for giving this notice by calling "Gopher State One-Call" at 652–454-0002 (Twin Cities Metro Area) or 1-800-252-1166 (all other locations).

Note 2: For extensive or complex projects supplementary information may be requested at a later dated from one or more of the responding agencies. Such information may include (but not be limited to) the following: topographic map, water table map, soil borings, depth soundings, aerial photographs, environmental assessment and/or engineering reports.

19. SIGNED AFFIRMATION:

FOR PROJECTS INVOLVING REPLACEMENT BY WETLAND BANKING ONLY. To the best of my knowledge and belief, all information in Part II is true, complete and accurate; and I affirm that the wetland losses will be replaced via withdrawal from an account in the State Wetland Bank.

FOR PROJECTS INVOLVING EITHER PROJECT-SPECIFIC REPLACEMENT ONLY OR A COMBINATION OF WETLAND BANKING AND PROJECT-SPECIFIC REPLACEMENT:

Part A: The replacement wetland. I affirm that the replacement wetland was not:
Previously restored or created under a prior approved replacement plan or permit; **AND**
Drained or filled under an exemption during the previous 10 years; **AND**
Restored with financial assistance from public conservation programs; **AND**
Restored using private funds, other than landowner funds, unless the funds are paid back with interest to the individual or organization that funded the restoration; and the individual or organization notifies the local government unit in writing that the restored wetland may be considered for replacement.

Part B: Additional assurances (check **all** that apply):
☐ The wetland will be replaced before or concurrent with the actual draining or filling of a wetland.
☐ An irrevocable bank letter of credit, performance bond, or other acceptable security has been provided to guarantee successful completion of the wetland replacement.
☒ The wetland losses will be replaced via withdrawal from an account in the State Wetland Bank.

Part C. For projects involving any project-specific replacement: Within 30 days of either receiving approval of this application or beginning work on the project, I will record the Declaration of Restrictions and Covenants on the deed for the property on which the replacement wetland(s) will be located; and I will at the same time submit proof of such recording to the LGU.

To the best of my knowledge and belief, all information in Part II is true, complete and accurate; and I affirm all statements in Part A and C, as well as checked assurance(s) in Part B.

Myron Jeans — 4-30-12 — SIGN HERE

Signature of applicant or agent — *Date*

FOR LGU USE ONLY

Replacement plan is (check one): ☐ Approved ☐ Approved with conditions (conditions attached) ☐ Denied

LGU official signature — *Date*

LGU has receive evidence of title and proof of recording of Declaration of Restrictions and Covenants for Replacement Wetland:

County where recorded — *Date* — *Document # assigned by recorder*

LGU official signature — *Date*

APPLICATION FOR WITHDRAWAL OF WETLAND CREDITS FROM THE MINNESOTA WETLAND BANK

Return Original to BWSR – Transaction may not be processed without required signatures

1. PROPOSED USER OF CREDITS

Name(s) Red Lake Watershed District

Address: 1000 Pennington Ave S

City Thief River Falls State MN ZIP 56701

Day Phone (218)681-5800

Email Address jesme@wiktel.com

2. Impact Site Information

County Pennington Major Wtrshd No.63

Bank Service Area #3 (63 Red Lake River)

Location: ¼ ¼ Sec 18, Twp.151N, Rge 45W

Size of Wetland Impact: 0.394 acres

Wetland Types[2] Impacted: 2/7

Wetland Plant Communities impacted[3]: Seasonally Flooded Basin/Floodplain Forest

Required Replacement Ratio: 2:1 WCA/local/COE/NRCS

Amount to be replaced using Bank Credits:0.78

Amount replaced on site: 0

Project Name: Red Lake Ditch 1 Improvement

3. OWNER / SELLER OF CREDITS

Account No. 1504 Watershed No. 63

County: Pennington Bank Service Area 3

Name of Seller: Red Lake Watershed District

Myron Jesme (Name of Authorized Representative)

(Signature of Seller/Authorized Representative)

4. Regulating Authority(ies) Approving the Use of Wetland Bank Credits

Replacement Plan approved by (check all that apply):

- ☒ Local WCA LGU: BWSR (Print agency name) Local Permit #1504
- ☒ U.S. Army Corps of Engineers: Permit #Pending
- ☐ MN Dept. of Natural Resources: Permit #
- ☐ Natural Resources Conservation Service: Permit #
- ☐ Other authority involved:

☐ Enclosed transaction fee, payable to "Board of Water & Soil Resources."

5. CREDITS PROPOSED TO BE WITHDRAWN FROM ACCOUNT NO.

Credit Sub-Group[1]	Acres withdrawn	Wetland Type[2]	Wetland Plant Community[3]	Cost (per acre)
1	0.394	3	Shallow Marsh	N/A
1	0.394	U	Upland buffer	N/A
			[Pick One]	
			[Pick One]	
Totals:				
1 acre = 43,560 sq. ft.			FEE TOTAL: Total credits x fee-per-credit (see Fee Schedule) =	$ N/A

[1]Letters signify credit sub-groups, which represent wetland areas with different wetland characteristics.
[2]**Circular 39 types:** 1, 1L, 2, 3, 4, 5, 6, 7, 8, R, U (for Upland Buffer).
[3] **Wetland plant community type:** shallow open water, deep marsh, shallow marsh, sedge meadow, fresh meadow, wet to wet-mesic prairie, calcareous fen, open bog or coniferous bog, shrub-carr/alder thicket, hardwood swamp or coniferous swamp, floodplain forest, seasonally flooded basin, or upland buffer. **See *Wetland Plants and Plant Communities of Minnesota and Wisconsin (Eggers and Reed, 1997)* as modified by the Board of Water and Soil Resources, United States Army Corps of Engineers.**

BWSR Form: wca-bank-05-withdrawal.doc
Revised 1/5/2011

6. CERTIFICATION OF USER OF WETLAND CREDITS

The proposed user of credits hereby certifies that he/she: **a)** either owns the subject wetland credits or has entered into an agreement to purchase said credits, subject to the approval of all applicable regulatory authorities and **b)** has filed appropriate plans, specifications and application forms with all applicable regulatory authorities that describe the wetland or water resource impacts for which the subject wetland credits will be utilized for mitigation purposes.

Myron Jesme / RED LAKE WATERSHED DISTRICT — MYRON JESME — 4-30-12

Authorized Signature of Proposed User of Credits | **PRINT Name** | **Date**

7. REGULATORY AUTHORITY APPROVAL(S)

The following authorized representatives of the regulatory authority (ies) identified on page 1 of this application hereby certify that they have: a) verified that the subject wetland credits are deposited in the account of the owner / seller, b) approved a wetland replacement plan or other water resource impact under their jurisdiction, and c) approved the proposed use of the wetland bank credits described herein.

PRINT Name of WCA LGU Official | **Signature of Authorized WCA LGU Official** | **Date**

PRINT Name of Other Regulatory Official (if any) | **Signature of Other Authorized Official** | **Date**

Agency ADDRESS of Other Regulatory Official

8. CERTIFICATION OF OWNER / SELLER OF CREDITS

I am the holder of the aforementioned account in the State of Minnesota Wetland Mitigation Bank and hereby certify that:

1) the credits described in this application have either been sold to the user of credits or I will use them to mitigate wetland impacts for my own project,
2) I have received payment in full from the buyer (if applicable),
3) the credits have not been sold or used in any way to mitigate wetland losses other than for the project and location identified in the project site information block on the previous page,
4) the subject wetland credits should be withdrawn my account,
5) I will not have a negative balance of credits after the subject credits are debited from my account, and
6) the Annual Fee for this account has been paid (or will be with an enclosed check).

Myron Jesme / ADMINISTRATOR — 4-30-12

Authorized Signature of Owner / Seller of Credits | **Date**

9. BWSR APPROVAL AND DEBITING OF ACCOUNT

I hereby certify that the credits have been properly debited from the subject account, effective the date of signature.

Authorized Signature | **Date**

Upon approval by BWSR, a copy of this instrument will be mailed to the user of the credits, all regulatory authorities involved, the account holder and the Board Conservationist. A letter will also be sent to the account holder acknowledging the debit and new account balance.

IMPORTANT REMINDERS

1. The Owner / Seller of the credits is responsible for submittal of this form, containing all required signatures, to the BWSR Wetland Bank Administrator so the affected account can be properly debited.
2. No impacts to any wetland or other water resource may commence until the credits have been debited from the Minnesota Wetland Mitigation Bank and a copy of this approval has been mailed to the regulatory authority(ies), the account holder and the user of the credits.
3. It is a criminal offense for a seller of wetland credits to sell credits more than one time. It is the responsibility of the account holder to report any credit sales that are not noted on the most current official BWSR account balance.

Mail to: Bank Coordinator, Board of Water & Soil Resources
520 Lafayette Road North St. Paul, MN 55155

NOTICE OF DEPOSIT OF WETLAND CREDITS TO THE MINNESOTA WETLAND BANK

Minnesota Board of Water & Soil Resources

Effective Date: January 10, 2012

Representative: Myron Jesme, Wetland Bank Account Manager

Depositor of Credits: Red Lake Watershed District
1000 Pennington Ave South
Thief River Falls MN 56701

Wetland Bank Account #1504 [Louisville Parnell parcel "A"]

Your Request to Deposit has been approved at last. A total of 18.23 acres of wetland credits have been established in Red Lake County (see attached sheet for more details). As requested, these credits will not be listed as available for public purchase.

Because a representative of the U.S. Army Corps of Engineers did not sign the TEP certification at the site review, we have no record that Corps certification has been granted. This may affect the market value of your credits but is not required for bank enrollment.

Please remember that the wetland must be monitored for a period of five years with annual reports submitted to both the local government unit (LGU) and to the BWSR Wetland Bank Administrator. Contact BWSR if the banking plan needs to be amended (i.e. the resultant wetland type or acreage is different from that approved for deposit).

When documenting withdrawals, indicate your Account Number (#1504) and which subgroup (A-B) you wish to debit on the Request for Withdrawal form (a sample is enclosed). Be sure to mark the correct subgroup as corrections are time-consuming and difficult to make. Each time a transaction is made, an Account Profile indicating the updated balance will be sent to you. Contact our office if you see errors or omissions on this sheet.

The deposit fee for this account was paid by Red Lake Watershed District check # 3158.

The 1% annual fee will be required at the year's first transaction. The base credit value for Red Lake County is $5,447 per acre; you pay one percent of your account's value or, for your account, the maximum of $500.00. Transaction fees are $354 per credit sold; please inform the buyer when arranging a sale. All fees payable to "Board of Water & Soil Resources" at the time the withdrawal application is filed. See our website for details about the fee policy.

Noted By: Natasha DeVoe, Wetland Bank Specialist

Signature: Natasha DeVoe

encl. Account Profile/Transactions Report
Application to Withdraw Wetland Credits

ec: File: Account #1504, Red Lake County
Nicole Berndt, Polk West SWCD (WCA LGU)
Joyce Simonson, Red Lake SWCD
Bill Baer, COE Project Manager
BWSR Wetland Specialist Steve Hofstad

f:WetlandBank/archive/1504_RED LAKE_INITDEPOSIT.DOC

Account: 1504

Account Profile / Transactions Report

Minnesota Wetland Bank

January 10, 2012

Account No 1504 **Original Application Number** 6039D **Date Approved** 01/09/2012 **Account Manager** Jesme, Myron (Red Lake
Annual Fee paid for year **Account Established on** 01/10/2012 **Credits Available** Y

Account Holder

Watershed District, Red Lake | Government | 1000 Pennington Ave S | Thief River Falls, MN 56701 | (218) 681-5800

Replacement Site Information

Site Number 4873-Red Lake **Qtr T** **Section** 18 **UTM X** 240546.99
Major Watershed 63 Red Lake **Qtr F** **Township** 151 **UTM Y** 5310844.33
Qtr Q **Range** 45 W

Account Groups	COE	Credit Type	Wetland Type	Topography	Acres Deposited	Balance
A	N	SWC	3	shallow marsh	11.3000	11.3000
B	N	SWC	U	Upland	6.9300	6.9300

Account Transactions

Trans Date	Type	Grp	Amount	App No	Landowners	IMPACT Site No.	Watershed	Wetland Type(s)	Topography
01/10/2012	Deposit	A	11.3000	6039D					
		B	6.9300						

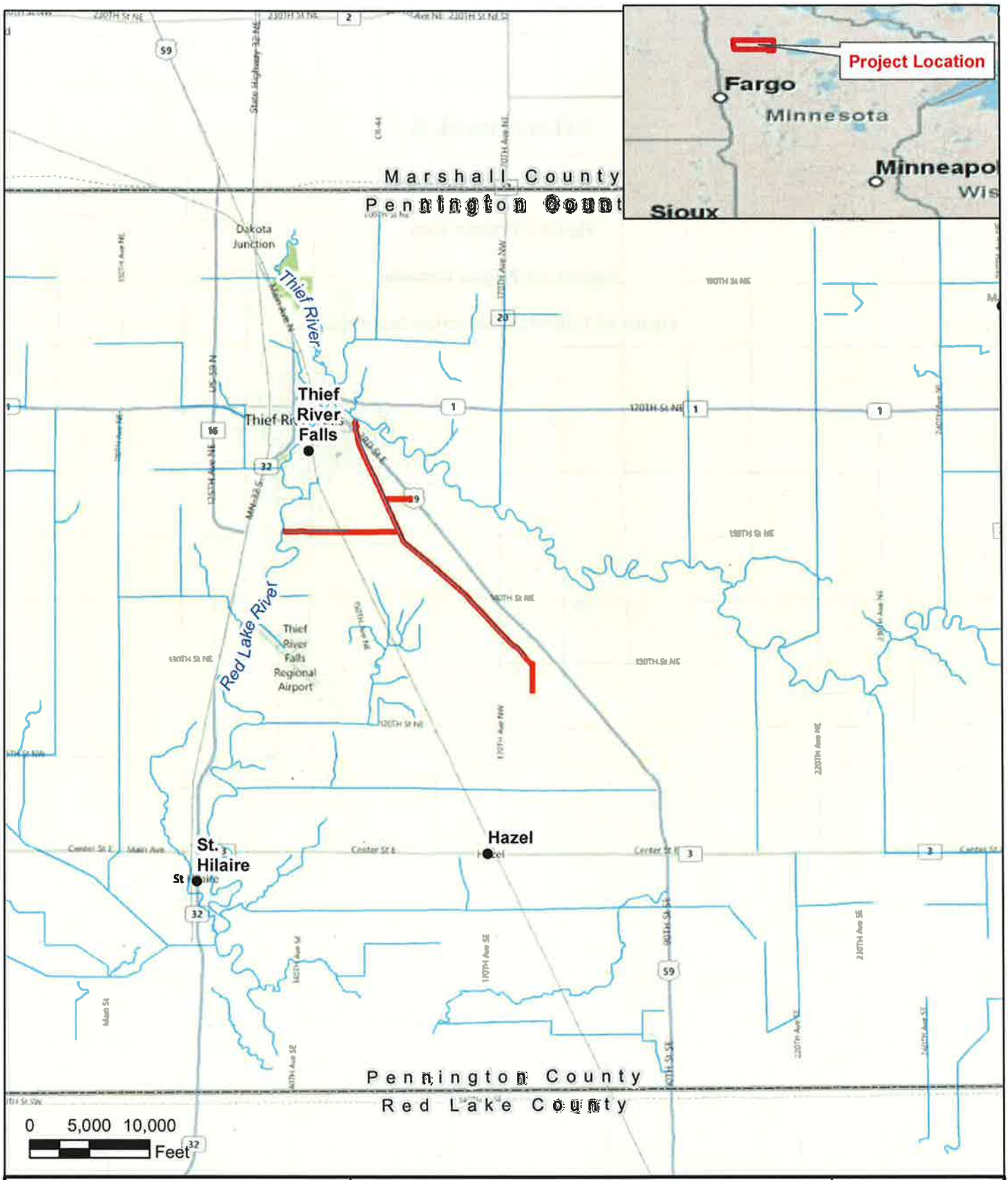
Attachment A

Figure 1 Project Location

Figure 2 Project Area

Figures 3-9 Project Impacts

Figure 10 Typical Construction Drawings



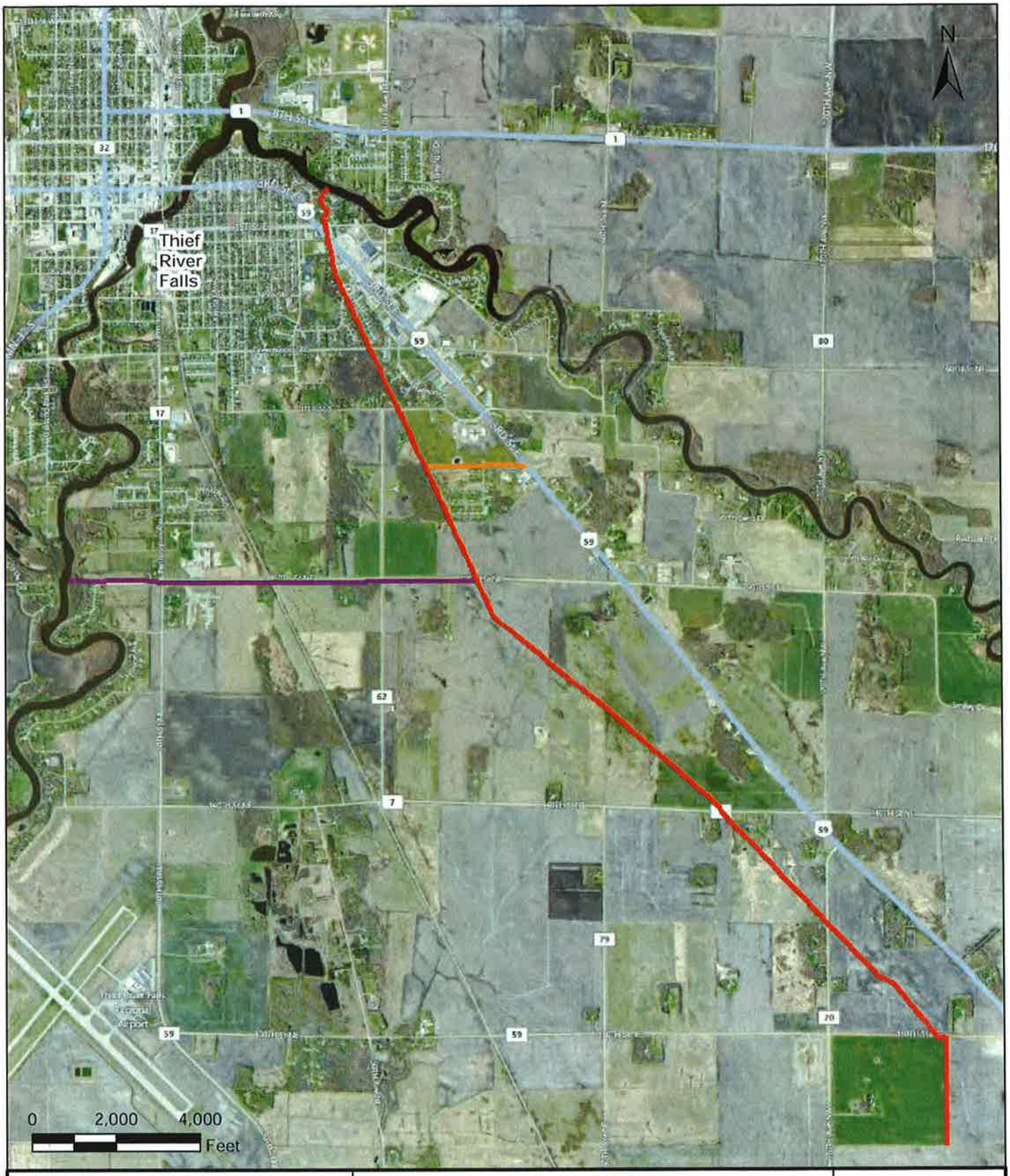
Project Area

N

County Ditch 1
Project Location
Red Lake Watershed District

May 2012

Figure 1



Streams
County Ditch 1 Alignment
Diversion Alignment
Aaseby Ditch Alignment

Pennington County Ditch 1
Project Area
Red Lake Watershed District

May 2012

Figure 2

N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 3

HDR

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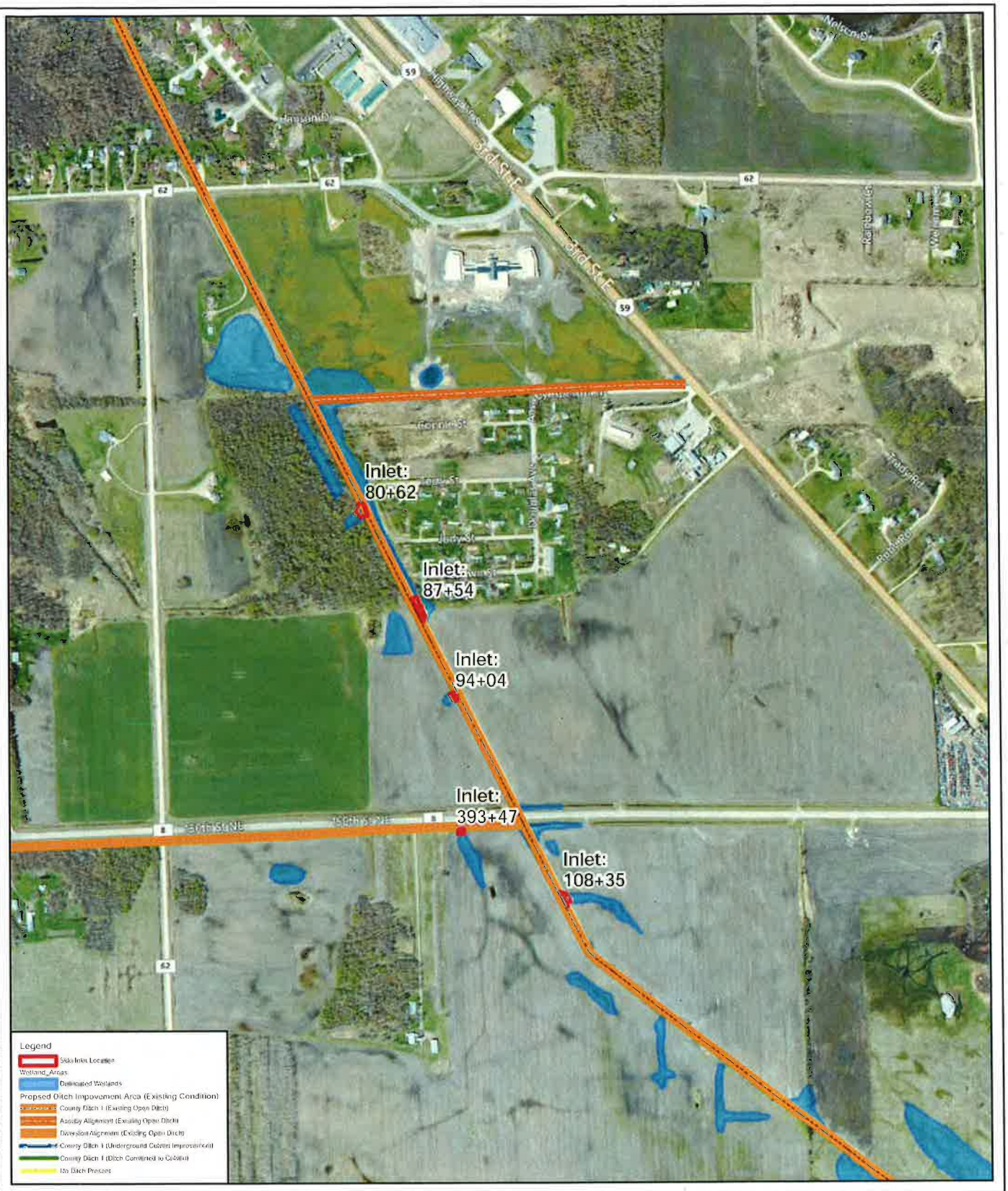

N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 4

HDR

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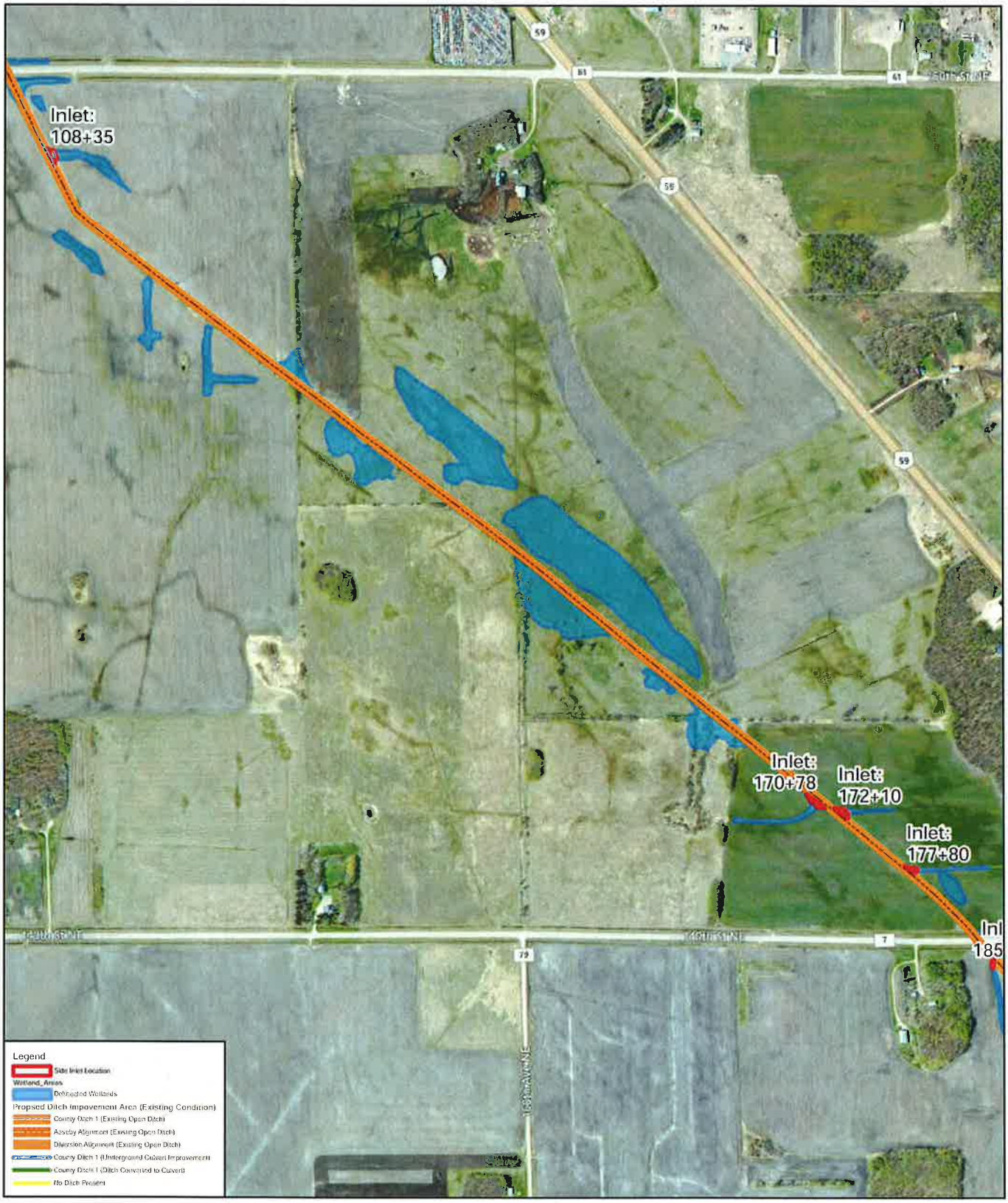

N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 5

HDR

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N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 6

HDR

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N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 7

HDR

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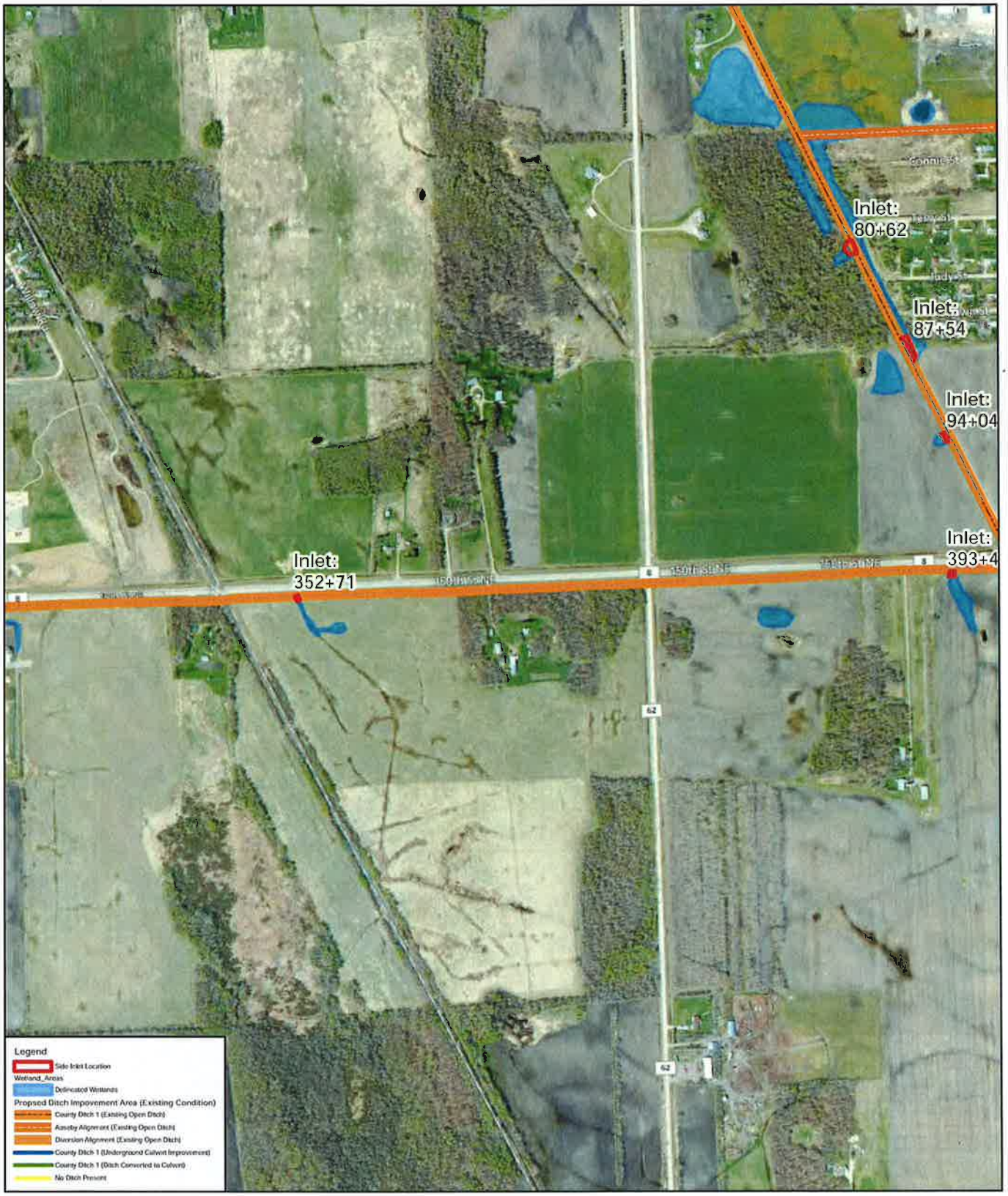

N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 8

HDR

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N

0 150 300 600 900 1,200 Feet

Diversion Alignment
County Ditch #1
Red Lake Watershed District
Pennington County, MN

Figure 9

HDR

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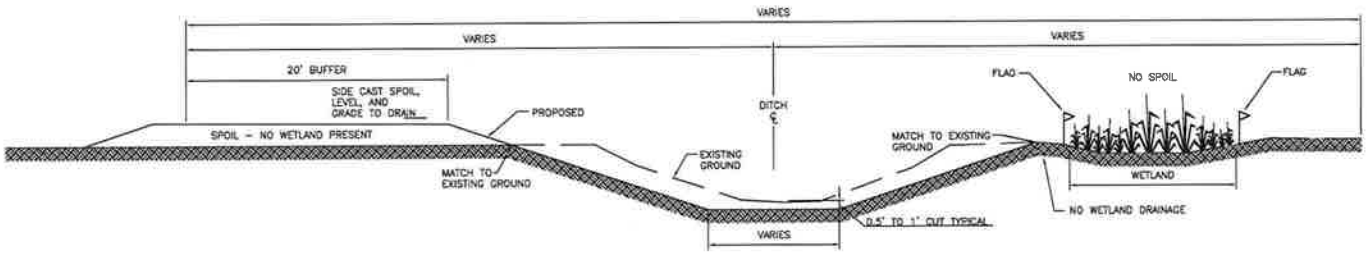
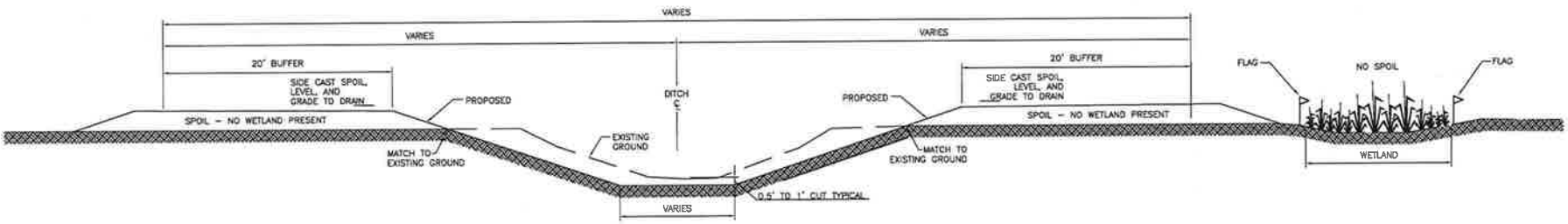
Figure 10 - Typical Cross Sections



TYPICAL - WETLAND AVOIDANCE - NO SPOIL



TYPICAL - WETLAND AVOIDANCE - WITH SPOIL

Attachment B

Type of Project

Project Purpose, Description and Dimensions

Project Alternatives

Type of Project

The Thief River Falls Flood Damage Reduction Project and Improvement to Pennington County Ditch #1 (CD 1) (RLWD Ditch # 14) consists of improving and enlarging cross-sections, adding storm sewer, improving ditch grades, improving flows by removing vegetation within the channel, and improving culverts within the ditch alignments (Project). The Project is also diverting CD 1 flows south of the Diversion (CSAH 8) westward, outletting into the Red Lake River, and cleaning of the Aaseby ditch (Figure 1).

Project Purpose, Description and Dimensions

CD 1 drainage problems stem from very flat grades (~1 foot per mile) as well as the presence of vegetation such as cattails and willows in the drainage ditch. Lateral areas draining into CD 1 are slow to drain due to high water in the ditch and the ditch's inability drain effectively, thus many areas draining into CD 1 experience flooding problems. The goal of this project is to increase the hydraulic capacity of CD 1 and reduce the level and frequency of flooding along CD 1 and surrounding areas such as the Highway 59 roadside ditches and other adjacent township roads and field ditches.

Investigation of the survey data revealed that CD 1 does not have a consistent cross-sectional area or grade. The flow capacity of CD 1 varies depending on location. CD 1 currently has approximately a 5-year flood frequency capacity in some areas, and as low as 1-year flood frequency capacity in other areas. The ditch frequently overtops and water backs into adjacent fields and urban commercial and residential developments. The tributary ditches are filled with standing water for long periods due to the inadequacy of CD 1. Inconsistent and inadequate flow has promoted the growth of vegetation in areas, causing it to drain even more slowly. The current ditch is a public safety hazard, a public nuisance, and frequently causes property damage.

The Project includes improving drainage through widening the channel bottom, flattening the channel side slopes, and lowering and creating a more consistent channel bottom profile. CD 1 ditch modifications begin in Section 19 of Smiley Township and continue northwest to Section 34 of North Township in the City of Thief River Falls.

The following are the details of the Project:

- Ditch widening and grade improvements vary throughout the project, but will be generally designed to allow 10-year flow rates through the ditch below natural ground along the entire length. Side slopes of CD 1 will be at a 3:1 (H:V) and side slopes of the Aaseby ditch will be at 2:1.
- In areas where the diversion channel is parallel to a major roadway, the inslope of the ditch will be 4:1 where possible.
- Ditch bottoms will be widened to 12 feet upstream of the diversion and 10 feet downstream of diversion. The diversion will consist of 10 to 12 foot bottoms.
- The diversion will flow west, parallel to CSAH 8, from CD 1 to the Red Lake River. A maximum ditch cut of 6 feet will be needed along the diversion near the 150th Ave NE intersection to allow the diverted water to flow west.
- Approximately 1 foot of excavation is required for CD 1 south of County Road 7. Approximately 0.5 feet of excavation is needed from County Road 7 to Aaseby Ditch. Very little excavation will

be needed north of Aaseby ditch and most work in this stretch of CD 1 includes vegetation removal.

- Several culverts will be upsized as part of the Project and are detailed in Table 1.
- Some tree clearing and grubbing will be required along portions of the project.
- Wetland areas will be included on engineering plan sets and will be completely avoided during ditch improvements.
- All fill removed from ditch improvements will be spread within upland areas along each ditch (CD 1, CSAH8, Aaseby). See Figure 10 for typical cross sections and placement of fill material.

Table 1. Culvert Schedule

Location	Station	Existing Culvert	Proposed Culvert	Proposed Length (ft)	Notes
Holiday/1st St/Hwy 59	16+08 to 10+23	(2) 36" RCP	N/A	N/A	Leave existing in place
Apt Driveway N of Dale St	25+74	72" x 46" CSP Arch	(2) 59" x 36" RCP Arch	3,788	Storm Sewer; Remove Existing Culverts
Dale St	28+02	72" x 46" CSP Arch			
Greenwood St. to Hwy 59	41+95 to 16+08	Open Ditch			
Greenwood Street	41+95	48" RCP	24" Steel Casing	82	Leave existing in place
County Road 62	57+88	42" CSP	48" RCP	88	Remove Existing
Field Crossing	90+27	42" CSP	48" CSP	48	Remove Existing
CSAH 8 (Diversion)	102+28	48" CSP	N/A	N/A	Leave existing in place
Field Crossing	137+84	42" CSP	(2) 42" CSP	55	Remove Existing
Field Crossing	159+19	48" CSP	(2) 42" CSP	58	Remove Existing
County Hwy 7	183+83	(2) 36" RCP	36" Steel Casing	86	Leave existing in place
Field Crossing	193+22	48" RCP	(2) 42" CSP	58	Remove Existing
County Hwy 20	220+06	44" x 27" RCP Arch	42" Steel Casing	113	Leave existing in place
Field Crossing	249+30	18" CSP	42" CSP	42	Remove Existing
CR 59	257+75	30" CSP	36" CSP	68	Remove Existing

Wetland Impacts

A wetland delineation was completed for the Project Area identifying all wetlands adjacent to the ditch. A wetland delineation report was submitted in September 2011. A Technical Evaluation Panel (TEP) review of the delineated wetland boundaries was completed on April 16 and 17, 2012. The TEP included staff from the Bemidji USACE Office, the St. Paul USACE office and the Fergus Falls BWSR office. After the TEP panel was completed, HDR provided a GIS file of the updated wetland boundaries to the USACE and received a response that the wetland boundaries provided in the update were agreed upon and final. A revised wetland delineation report was submitted in April 2012. All delineated wetland areas impacted are depicted within the Wetland Delineation Report included in this Permit Application. Table 2 summarizes the wetland impacts for the proposed project.

The majority of the wetland areas along the ditch will not be impacted by the proposed project. No spoil material will be placed inside delineated wetland boundaries as a part of the proposed project, with the exception of a one wetland (0.39 acres) in the floodplain of the Red Lake River at the end of the diversion outlet (Figure 9). Activity in this wetland area will include excavation for a new outlet for the diversion channel and the resulting activity will drain the wetland area entirely. This wetland will be replaced at a 2:1 ratio using existing banking credits available at the Louisville Parnell wetland bank, owned by the RLWD.

Side inlet pipes will be placed at nineteen locations along the CD1 alignment. The side inlet pipes will be placed in areas delineated as wetland with a total impact of 0.71 acres. The side inlet pipes will provide improved drainage from the adjacent fields and reduce erosion and sediment load in the ditch. Installation of the side inlet pipes will require excavation and fill of delineated wetland areas. However, due to the beneficial nature of the side inlet pipes and the surrounding grassed buffer strips that will be maintained as part of the project, the USACE has suggested that the grassed buffer strips serve as full mitigation for the wetland impacts that will occur as a result of the side inlet pipe installation.

Between the Hwy 59 crossing and the Greenwood Street crossing (Figure 1), the existing open ditch will be converted to two below ground culverts underneath a grassed drainageway. This will convert an approximately 2600 foot long by 10 foot wide area from existing aquatic habitat (i.e. an open ditch) to non-aquatic habitat (i.e. a shallow grassed drainageway with no wetland vegetation or regular hydrology). This 0.60 acre area is not considered a jurisdictional wetland under USACE or WCA rules and does not require mitigation, but the change will result in a loss of area that the USACE considers "aquatic habitat". Based on USACE recommendations, the area converted from open ditch to underground culvert is included in the permit application but will not require any additional mitigation as a result of the proposed activity. As a result, the impacts from the open ditch conversion are not included in Table 2.

Table 2. Jurisditional Wetland Impacts

Wetland ID	Impact Acres	Mitigation Type
Floodplain Outlet Wetland	0.394	2:1 Wetland Banking Replacement
P3 (Sta. 45+96)	0.023	Adjacent Buffer Strip Replacement
P11 (Sta. 80+62)	0.102	Adjacent Buffer Strip Replacement
P13 (Sta. 87+54)	0.097	Adjacent Buffer Strip Replacement
P15 (Sta. 94+04)	0.035	Adjacent Buffer Strip Replacement
P19 (Sta. 108+35)	0.047	Adjacent Buffer Strip Replacement
P30 (Sta. 170+78)	0.058	Adjacent Buffer Strip Replacement
P31 (Sta. 172+10)	0.051	Adjacent Buffer Strip Replacement
P32 (Sta. 177+80)	0.031	Adjacent Buffer Strip Replacement
P37 (Sta. 185+61)	0.012	Adjacent Buffer Strip Replacement
P38 (Sta. 191+42)	0.011	Adjacent Buffer Strip Replacement
P42 (Sta. 209+84)	0.032	Adjacent Buffer Strip Replacement
P47 (Sta. 222+67)	0.022	Adjacent Buffer Strip Replacement
P48 (Sta. 234+02)	0.023	Adjacent Buffer Strip Replacement
P49 (Sta. 237+08)	0.027	Adjacent Buffer Strip Replacement
P50 (Sta. 237+07)	0.028	Adjacent Buffer Strip Replacement
P52 (Sta. 251+11)	0.037	Adjacent Buffer Strip Replacement
P59 (Sta. 265+64)	0.034	Adjacent Buffer Strip Replacement
S8 (Sta. 352+71)	0.014	Adjacent Buffer Strip Replacement
S9 (Sta. 393+47)	0.025	Adjacent Buffer Strip Replacement
Total	0.39 ac : Banking Mitigation 0.71 ac : Buffer Strip Mitigation	

Project Alternatives

Several alternatives were evaluated for the Project. All alternatives except the no-action alternative included some improvement to CD 1. Urbanization is included as an option in many of the alternatives. The term "urbanization" refers to the addition of storm sewer pipes within City limits. The storm sewer includes an overflow ditch on top of the storm sewer. Table 3 summarizes each alternative and options for each alternative. A combination of Alternative 2B-Urban and Alternative 3 was chosen for the project as it achieves the design goals and landowner expectations of flood damage reduction at a reasonable cost that is most likely more acceptable to the community than other alternatives.

- Alternative 1 is the no-action alternative. This alternative will not resolve flooding problems in the area.

- Alternatives 2 and 3 include diversions of 50% (Alt 2) and 100% (Alt 3) of CD 1 flows at CSAH 8. Option A references eastward diversions and Option B references westward diversions. Therefore, Alternatives 2A, 2A-Urban, and 3A divert CD 1 flows east in the south ditch of CSAH 8. The east diversion would cross TH 59 to the east, and turn north to the east ditch of 167th Avenue NE, cross Sorteberg Drive, and outlet to the Red Lake River.

- Alternatives 2B, 2B-Urban, and 3B take advantage of the existing ditch on the south side of CSAH 8, including the CSAH 8 Ditch established by the RLWD from the railroad tracks going west. The

CSAH 8 alternative and option combinations would require a maximum cut of 6 feet in the vicinity of 150th Ave. NE in order to drain the flows west to the Red Lake River.

- Alternatives 4, 4-Urban, and 5 include diverting 50% (Alt 4) and 100% (Alt 5) of CD 1 flows at the northwest corner of the Aaseby trailer court, between CSAH 8 and CR 62. The diversion would take flows east in the Aaseby ditch west of TH 59 and would require a new ditch up to 9 feet deep east of TH 59. This diversion would outlet to the Red Lake River north of Nelson Drive.

- Alternatives 6 and 6-Urban include a full improvement of CD 1, with culvert upsizing, ditch grade lowering, cross-section enlargement, and full utility relocations. Urbanization is included in Alternative 6-Urban, and would include storm sewer north of Greenwood Street. This option would also include installing new culverts/storm sewer under the TH 59/1st St East intersection.

- Alternative 7 includes a full improvement of CD 1 with the ditch and culverts designed to carry a 10-year 24-hour storm event. This construction would include culvert upsizing, ditch grade changes, cross-section modifications, and utility relocations. Urbanization is not included in this alternative, and the existing culverts under the TH 59/1st St East intersection would remain in place.

Table 3. Alternatives and options for Pennington County Ditch Improvements

Alt.	Alternative Description	Option	Option Description
1	No Action		No Action
2	Divert 50% of CD 1 flows at (CSAH 8)	A	East Diversion
		B	West Diversion
		A-Urban	East Diversion with full urbanization
		B-Urban	West Diversion with full urbanization
3	Divert 100% of CD 1 flows at CSAH 8	A	East Diversion
		B	West Diversion
4	Divert 50% of CD 1 flows at Aaseby		East Diversion
		Urban	East Diversion with full urbanization
5	Divert 100% of CD 1 flows at Aaseby		East Diversion
6	Improvement of CD 1 / No Diversion		Full improvement / no urbanization
		Urban	Full improvement / urbanization
7	10-yr Storm Event CD #1 Improvement / No Diversion / No Urbanization		Improvements / no urbanization / existing TH 59/1st St E culverts to remain in place