Wetland Replacement Plan Application

City of Aitkin March 29, 2024

#### Submitted by:

Bolton & Menk, Inc. 1960 Premier Drive Mankato, MN 56001 P: (507) 625-4171 F: (507) 625-4177



Real People. Real Solutions.

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FIGURE 1 – LOCATION MAP FIGURE 2 – PROJECT LAYOUT & IMPACTS

PLAN SET

## **PART ONE: Applicant Information**

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

Applicant/Landowner Name:			Jen Thompson   Deputy Clerk   City of Aitkin
Mailing Address:         130 Southgate Drive-Suite 200   Aitkin, MN 56431			ate Drive-Suite 200   Aitkin, MN 56431
Phone:	(218)-92	7-2527	
E-mail Address: accounting		accountingcl	erk@ci.aitkin.mn.us

Authorized Contact (do not complete if same as above):					
Mailing Address:					
Phone:					
E-mail Address:					

Agent Na	ame:	Bolton & Menk, I	Bolton & Menk, Inc.   Addeline Theis   Natural Resources Specialist					
Mailing /	Address	s: 1960 Premier Dr   Mankato, MN 56001						
Phone:	(507)	280-4528						
E-mail Address: Addeline.theis@		Addeline.theis	@bolton-menk.com					

#### **PART TWO: Site Location Information**

County:	Aitkin		City/Township	):	Aitkin
Parcel ID and/or Address: See Figure 1: Locati			Мар		
Legal Description (Section, Township, Range):			18, 47N, 26W		
Lat/Long	Lat/Long (decimal degrees):				
Attach a i	Attach a map showing the location of the site in relation to local streets, roads, highways.				
Approximate size of site (acres) or if a linear project, length (feet)				56 acres	

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform 4345 2012oct.pdf

#### **PART THREE: General Project/Site Information**

If this application is related to a delineation approval, exemption determination, jurisdictional determination, or other correspondence submitted *prior to* this application then describe that here and provide the Corps of Engineers project number.

A wetland delineation for the project was submitted on October 4, 2022. The LGU issued a NOD approving the delineated boundary on October 28, 2022. The approved delineated wetland boundary is shown on **Figure 3**. No Army Corps correspondence has occurred for this project yet.

Describe the project that is being proposed, the project purpose and need, and schedule for implementation and completion. The project description must fully describe the nature and scope of the proposed activity including a description of all project elements that effect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.

The proposed project is located in the City of Aitkin, in the west portion of Aitkin County, Minnesota (**Figure 1**). The goal of this project is to install two 4-box Precision Approach Path Indicator (PAPI) systems and changing location for Runway End Identifier Lights (REIL) at each end of runway. The construction of the PAPI system involves bringing material in for the base of the concrete pad, grading of the area, adding a concrete pad for the PAPI system to sit on and installing a new electric line to power the lights (Figure 2). The new electric line will cross the runway once and will be installed through horizontal directional drilling. The current system-Visual Approach Path Indicator (VASI) is not up to Federal Aviation Administration (FAA) standard for VGSI systems. The 4-box Precision Approach Path Indicator (PAPI) is a critical system that is used by pilots to measure their glide slope for landing. Therefore, it is crucial that this system is replaced for increased safety measures.

The estimated state date for the proposed work is late summer 2024.

The proposed wetland impact for the installation of the concrete pad for the new PAPI system consists of 0.21 acres of permanent fill with 0.14 acres of temporary impact due to vegetation removal for grading of permanent fill. Only temporary impacts are associated with the relocation of the northern REIL system which total to 680-square feet. See Figure 3 for proposed wetland impact figures. Temporary wetland impacts will be rectified through the seeding of state mix 25-131 and through returning the area to original contours.

These impacts have been minimized in design through grading of steep side slopes.

#### PART FOUR: Aquatic Resource Impact<sup>1</sup> Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact Permanent (P) or Temporary (T) <sup>1</sup>	Size of Impact <sup>2</sup>	Overall Size of Aquatic Resource <sup>3</sup>	Existing Plant Community Type(s) in Impact Area <sup>4</sup>	County, Major Watershed #, and Bank Service Area # of Impact Area <sup>5</sup>
Wetland 3	Wetland	Remove Vegetation	T (90)	2,413-sq ft	1.15 acres	Type 2- Fresh (wet) Meadow	Mississippi River- Brainerd, 10, 5
Wetland 2	Wetland	Remove Vegetation	T (90)	3,874-sq ft	25.9 acres	Type 2- Fresh (wet) Meadow	Mississippi River- Brainerd, 10, 5
Wetland 2	Wetland	Remove Vegetation	T (90)	680-sq ft	25.9 acres	Type 2- Fresh (wet) Meadow	Mississippi River- Brainerd, 10, 5
Wetland 3	Wetland	Fill	Ρ	5,346-sq ft	1.15 acres	Type 2- Fresh (wet) Meadow	Mississippi River- Brainerd, 10, 5
Wetland 2	Wetland	Fill	Р	3,874-sq ft	25.9 acres	Type 2- Fresh (wet) Meadow	Mississippi River- Brainerd, 10, 5

<sup>1</sup>If impacts are temporary; enter the duration of the impacts in days next to the "T". For example, a project with a temporary access fill that would be removed after 220 days would be entered "T (220)".

<sup>2</sup>Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

<sup>3</sup>This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A". <sup>4</sup>Use Wetland Plants and Plant Community Types of Minnesota and Wisconsin 3<sup>rd</sup> Ed. as modified in MN Rules 8420.0405 Subp. 2. <sup>5</sup>Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

If any of the above identified impacts have already occurred, identify which impacts they are and the circumstances associated with each:

N/A

#### **PART FIVE: Applicant Signature**

Check here if you are requesting a <u>pre-application</u> consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.

By signature below, I attest that the information in this application is complete and accurate. I further attest that I possess the authority to undertake the work described herein.

\_\_\_\_ Date: 4124 Signature: 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 application.

<sup>1</sup> The term "impact" as used in this joint application form is a generic term used for disclosure purposes to identify activities that may require approval from one or more regulatory agencies. For purposes of this form it is not meant to indicate whether or not those activities may require mitigation/replacement.

Minnesota Interagency Water Resource Application Form – Revised May 2021

## **Attachment C**

## **Avoidance and Minimization**

**Project Purpose, Need, and Requirements.** Clearly state the purpose of your project and need for your project. Also include a description of any specific requirements of the project as they relate to project location, project footprint, water management, and any other applicable requirements. Attach an overhead plan sheet showing all relevant features of the project (buildings, roads, etc.), aquatic resource features (impact areas noted) and construction details (grading plans, storm water management plans, etc.), referencing these as necessary:

The City of Aitkin is proposing improvements at the airport located in western Aitkin County, Minnesota. Airport improvements include installing two 4-box Precision Approach Path Indicator (PAPI) systems and changing the location of existing Runway End Identifier Lights (REIL) at each end of runway. The current system, Visual Approach Path Indicator (VASI), is not up to Federal Aviation Administration (FAA) standard. The 4-box PAPI system is a critical system that is used by pilots to measure their glide slope during landing. Therefore, it is crucial that this system is replaced for increased safety measures.

Construction of improvements involves bringing in material for the base of the concrete pad, grading of the area, adding a concrete pad for the PAPI system to sit on and installing a new electric line to power the lights. The new electric line will cross the runway once and will be installed through horizontal directional drilling.

Aquatic resource impacts are associated with the permanent fill for the base of the PAPI system. Temporary impacts are associated with access around the wetland to bring in fill. Permanent impacts to wetlands total to 0.21 acres.

**Avoidance**. Both the CWA and the WCA require that impacts to aquatic resources be avoided if practicable alternatives exist. Clearly describe all on-site measures considered to avoid impacts to aquatic resources and discuss at least two project alternatives that avoid all impacts to aquatic resources on the site. These alternatives may include alternative site plans, alternate sites, and/or not doing the project. Alternatives should be feasible and prudent (see MN Rules 8420.0520 Subp. 2 C). Applicants are encouraged to attach drawings and plans to support their analysis:

#### No-Build Alternative:

While the no-build alternative does not impact any wetlands, it fails to meet current FAA standards. Therefore, the no-build alternative was not considered.

#### No Fill Alternative:

In an effort to avoid wetland impacts, the applicant explored other design options. Design including installing PAPI lights without fill for the base and installed on pole. This would result in a reduction of permanent impacts from the airport improvements. This design option was ruled out for several reasons, including:

- The PAPI system requires a stable base due to the precision of angle the lights for the system needs to be to assist pilots during the landing process. If installed not on stable base, freeze and thaw could impact systems precision.
- Fill is necessary to install PAPI system at the same elevation as runway.
- For safety, the PAPI system also requires a frangibility point, where the light will easily break off in case of collision with airplanes.

**Minimization**. Both the CWA and the WCA require that all unavoidable impacts to aquatic resources be minimized to the greatest extent practicable. Discuss all features of the proposed project that have been modified to minimize the impacts to water resources (see MN Rules 8420.0520 Subp. 4):

• Existing site constraints made wetland minimization challenging for this project. Design options that could have minimized impacts are hindered by specific location requirements needed for the installation of the new PAPI systems. Around the PAPI systems steep stope will be graded to reduce more permanent wetland impact.

**Off-Site Alternatives**. An off-site alternatives analysis is not required for all permit applications. If you know that your proposal will require an individual permit (standard permit or letter of permission) from the U.S. Army Corps of Engineers, you may be required to provide an off-site alternatives analysis. The alternatives analysis is not required for a complete application but must be provided during the review process in order for the Corps to complete the evaluation of your application and reach a final decision. Applicants with questions about when an off-site alternatives analysis is required should contact their Corps Project Manager.

N/A

## **Attachment D**

## **Replacement/Compensatory Mitigation**

Complete this part *if* your application involves wetland replacement/compensatory mitigation <u>not</u> associated with the local road wetland replacement program. Applicants should consult Corps mitigation guidelines and WCA rules for requirements.

**Replacement/Compensatory Mitigation via Wetland Banking**. Complete this section if you are proposing to use credits from an existing wetland bank (with an account number in the State wetland banking system) for all or part of your replacement/compensatory mitigation requirements.

Wetland Bank Account #	County	Major Watershed #	Bank Service Area #	<b>Credit Type</b> (if applicable)	Number of Credits
1485	Aitkin	10	5	Type 2	0.2100

Applicants should attach documentation indicating that they have contacted the wetland bank account owner and reached at least a tentative agreement to utilize the identified credits for the project. This documentation could be a signed purchase agreement, signed application for withdrawal of credits or some other correspondence indicating an agreement between the applicant and the bank owner. *However, applicants are advised not to enter into a binding agreement to purchase credits until the mitigation plan is approved by the Corps and LGU.* 

**Project-Specific Replacement/Permittee Responsible Mitigation**. Complete this section if you are proposing to pursue actions (restoration, creation, preservation, etc.) to generate wetland replacement/compensatory mitigation credits for this proposed project.

WCA Action Eligible for Credit <sup>1</sup>	Corps Mitigation Compensation Technique <sup>2</sup>	Acres	Credit % Requested	Credits Anticipated <sup>3</sup>	County	Major Watershed #	Bank Service Area #

<sup>1</sup>Refer to the name and subpart number in MN Rule 8420.0526.

<sup>2</sup>Refer to the technique listed in *St. Paul District Policy for Wetland Compensatory Mitigation in Minnesota*.

<sup>3</sup>If WCA and Corps crediting differs, then enter both numbers and distinguish which is Corps and which is WCA.

Explain how each proposed action or technique will be completed (e.g. wetland hydrology will be restored by breaking the tile.....) and how the proposal meets the crediting criteria associated with it. Applicants should refer to the Corps mitigation policy language, WCA rule language, and all associated Corps and WCA guidance related to the action or technique:

N/A

Attach a site location map, soils map, recent aerial photograph, and any other maps to show the location and other relevant features of each wetland replacement/mitigation site. Discuss in detail existing vegetation, existing landscape features, land use (on and surrounding the site), existing soils, drainage systems (if present), and water sources and movement. Include a topographic map showing key features related to hydrology and water flow (inlets, outlets, ditches, pumps, etc.):

N/A

Attach a map of the existing aquatic resources, associated delineation report, and any documentation of regulatory review or approval. Discuss as necessary:

N/A

For actions involving construction activities, attach construction plans and specifications with all relevant details. Discuss and provide documentation of a hydrologic and hydraulic analysis of the site to define existing conditions, predict project outcomes, identify specific project performance standards and avoid adverse offsite impacts. Plans and specifications should be prepared by a licensed engineer following standard engineering practices. Discuss anticipated construction sequence and timing:

N/A

For projects involving vegetation restoration, provide a vegetation establishment plan that includes information on site preparation, seed mixes and plant materials, seeding/planting plan (attach seeding/planting zone map), planting/seeding methods, vegetation maintenance, and an anticipated schedule of activities:

N/A

For projects involving construction or vegetation restoration, identify and discuss goals and specific outcomes that can be determined for credit allocation. Provide a proposed credit allocation table tied to outcomes:

N/A

Provide a five-year monitoring plan to address project outcomes and credit allocation:

N/A

Discuss and provide evidence of ownership or rights to conduct wetland replacement/mitigation on each site:

N/A

Quantify all proposed wetland credits and compare to wetland impacts to identify a proposed wetland replacement ratio. Discuss how this replacement ratio is consistent with Corps and WCA requirements:

N/A

Signature: N/A

By signature below, the applicant attests to the following (only required if application involves project-specific/permittee responsible replacement):

- All proposed replacement wetlands were not:
  - Previously restored or created under a prior approved replacement plan or permit
  - Drained or filled under an exemption during the previous 10 years
  - Restored with financial assistance from public conservation programs
  - 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.
- 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 will be provided to guarantee successful completion of the wetland 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 submit proof of such recording to the LGU and the Corps.

Date:

Applicant or Representative:	N/A	Title:	N/A

#### PURCHASE AGREEMENT FOR WETLAND BANKING CREDITS

THIS PURCHASE AGREEMENT is made this 29th day of March, 2024 between the Aitkin County Highway

Department (Seller) and City of Aitkin.

 Seller agrees to sell to Buyer and Buyer agrees to buy from Seller, the wetland banking credits (Credits) listed below:

CREDITS TO BE SOLD					
Credit Sub-	Wetland Circ. 39	Plant Community Type <sup>3</sup>	Acres	Cost per acre	Cost Estimate
B	1 ype- 2	Sedge Meadow	0.2100	\$19.602	\$4,116,42
	_			<i>~~</i> ,~~ <i>~</i>	· · · · · · · · · · · · · · · · · · ·
Totals			0.2100	\$19,602	\$4,116.42
Check here if additional credit sub-groups are part of this account and are listed on an attachment to this document. A separate credit sub-group shall be established for each wetland or wetland area that has different wetland characteristics.					
<sup>2</sup> Circular 39 types: 1, 1L, 2, 3, 4, 5, 6, 7, 8, B, U. <sup>3</sup> 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. See <i>Wetland Plants and Plant Communities of Minnesota and</i> <i>Wisconsin (Eggers and Reed, 1997)</i> as modified by the Board of Water and Soil Resources, United States Army Corps of Engineers					

Withdrawal/Stewardship Fee	
Total Acres of Credits to Be Sold <sup>*</sup>	0.2100
BWSR Withdrawal Fee of \$685 per Credit (acre)^	\$143.85
BWSR Easement Stewardship Fee of \$302 per Credit (acre)`	\$63.42
Total Fee	\$207.27
* Square Feet to Acre Conversion Factor = $1/43,560$	
<sup>^</sup> Based on BWSR Withdrawal Fee Schedule for Bank Service Area (BSA) 5	
`Based on BWSR Easement Stewardship Fee	

- 2. Seller represents and warrants as follows:
  - a) The US Army Corps of Engineers (USACE) approved Wetland Credits are deposited in an account (1485) in the Minnesota Wetland Bank administered by the Minnesota Board of Water and Soil Resources pursuant to Minn. Rules Chapter 8420.0700-.0760.
  - b) Seller owns the Credits and has the right to sell the Credits to Buyer.

- 3. Buyer will pay Seller a total of \$ 4,116.42 for the Wetland Banking Credits payable to Aitkin County AND Buyer also agrees to pay the BWSR Withdrawal Fee of \$143.85 & the BWSR Easement Stewardship Fee of \$63.42 for a total of \$207.27 payable to the Minnesota Board of Water and Soil Resources (BWSR). Both payments shall be submitted to Aitkin County – 1211 Airpark Drive – Aitkin, MN 56431. The check made payable to the Minnesota Board of Water and Soil Resources will be forwarded to BWSR by Aitkin County with the finalized Transaction Form document.
- 4. The Closing Date of the purchase and sale shall occur on or before 10-1-24. Beyond this date this agreement will no longer be valid. In addition, this Purchase Agreement must be signed by both parties to be valid, otherwise the Seller will not reserve the above referenced Wetland Credits for the Buyer if this Purchase Agreement is not signed.
- 5. Buyer has applied or will apply to the Local Governmental Unit (LGU (or other regulatory authority)) for approval of a replacement plan utilizing the above listed Wetland Credits as the means of replacing impacted wetlands. Upon payment of the purchase price, Seller will sign a fully executed Transaction Form to Withdraw Credits as specified by BWSR, provide a copy of the signed Transaction Form to Withdraw Credits to the Buyer and forward the same to BWSR along with the payment for the Withdrawal/Stewardship Fees.
- 6. If the LGU does not approve the Buyer's application for a replacement plan utilizing these Credits by the Closing Date, and no extension of the Closing Date has been agreed to, this Agreement will be cancelled and neither Buyer nor Seller shall have any further obligations under this Agreement.

masim

(Name of Buyer)

(Signature of Buyer)

John Welle Date: 2024.03.29 06:21:46 3-29-24 (Signature of Seller) (Date)

Page 2 of 2



## **Standard Credit Withdrawal Form**

#### **Minnesota Wetland Bank Program**

(Incomplete forms may be returned unprocessed)

1. Credit User		This space for BWSR use only.		
Name:	Organization/Company (if any):			
Jen Thompson	City of Aitkin-Deputy Clerk			
Address:	Phone:			
130 Southgate Drive	(218) 927-2527			
Suite 200	E-mail:			
	accountingclerk@ci.aitkin.mn.us			
If others should receive withdrawal verification email, please include their email below (e.g., Consultants, partners, etc.):				

Addeline.theis@bolton-menk.com

2. Wetland Impact Information						
Project Name:		Project Type:	ACRES	of Impact:		
Aitkin Airport-NAVAID	Replacement	Other	0.21			
City (if applicable):	County:	Sec/Twp/Range: (Project Center)	Major	Watershed No./Bank Service Area (BSA):		
Aitkin	Aitkin	Sec. 18 T. 47N R. 26W	10/5			
WCA LGU Name:		Majority Impact Wetland Type:	Majority HGM Class:			
Aitkin-Henry Egland		2 - Wet Meadow	Riverine			
Corps of Engineers Letter	r/Email Received?	f Yes, Corps File No.: (e.g. 2021-0010	1-ABC)	If Yes, is Corps Replacement Required?		
🗌 Yes 🛛 🕅 No				🗌 Yes 🗌 No 🛛 Unknown		
Comments:						

3. Credits to be Withdrawn									
Bank Account N	o./Name	:	Ва	nk County:		Bank BSA:			
1485			Ai	tkin		5			
Credit			o /Diant C		Federally	Cast par Cradit	Credit		
Subgroup	vve		e/Plant C	ommunity type	Approved?	Cost per credit	Amounts		
В		2	- Wet Mea	dow	Yes	\$19,602/sf	0.2100		
Select			Select		Select	\$			
Select			Select		Select	\$			
Select			Select		Select	\$			
Select			Select		Select	\$			
Per Credi	t Withdr	awal Fee b	y BSA	Enter Bank Account's BSA		Total Credits:	0.2100		
BSA 1 \$	520	BSA 6	\$1,083	Withdrawal Fee	and hit Tab key:	(Withdrawal Fee X tota	l credits)		
BSA 2 \$	371	BSA 7	\$1,992	\$6	85	Withdrawal Fee:	\$143.85		
BSA 3 \$	725	BSA 8	\$2,577	Easement Ste	wardship Fee:	(Easement Stewardshi	p fee x total credits)		
BSA 4 \$	1,412	BSA 9	\$2,628	\$3	02	Stewardship Fee:	\$63.42		
BSA 5 \$	685	BSA 10	\$3,099			Total Fees:	\$207.27		

Please make checks payable to the Minnesota Board of Water and Soil Resources. BWSR does not accept cash.

#### Project Name: Aitkin Airport: NAVAID Replacement

After completing all necessary fields, select "Request Signatures" option in the Home tab of your toolbar to convert your agreement to a PDF version and add your digital signature. See these <u>instructions</u> if you do not know how to create a digital signature.

By signing below, the identifi LGU has approved the use of	ed Wetland Conservation Act Local Governm the credits in Box 3 for wetland replacemen	nent Unit (LGU) representative attests that the t/mitigation.
WCA LGU:	Representative's Name:	Email Address:
Aitkin County	Henry Egland	Henry.egland@co.aitkin.mn.us

# 5. Other Agency/Program Authorization (Must include representative's name and email address) By signing below, the identified agency representative attests that the agency has approved the use of the credits in Box 3 for wetland replacement/mitigation. Agency: Representative's Name: Email Address: Signature: Date:

#### 6. Credit User Signature

By signing below the credit user attests that they have secured use of the credits in Box 3 from the account holder for wetland replacement/mitigation.

Signature

#### 7. Account Holder Signature (Must include seller/manager name and email address)

By signing below the account holder authorizes BWSR to withdraw the credits identified in Box 3 from their account to satisfy wetland replacement/mitigation requirements for the credit user indicated in Box 1. The account holder attests that the identified credits have not been sold or used by a different credit user.

Seller/Manager:	Email Address:	
John Welle	John.welle@co.aitkin.mn.us	

Signature:

Date:

Date:

#### SEND COMPLETED FORM AND FEE PAYMENT TO:

Wetland Bank Administration Minnesota Board of Water and Soil Resources 520 Lafayette Road North Saint Paul, MN 55155



## Landowner Statement and Contractor Responsibility For Work in Wetlands or Public Waters



MN Statutes Sections 103G.2212 and 103G.241 stipulate that an agent or employee of another may not:

- 1) drain, excavate, or fill a wetland, wholly or partially; or
- construct, reconstruct, remove, or make any change in any reservoir, dam, or the course, current, or cross-section of any public water;

<u>unless</u> the agent or employee has obtained a signed statement from the property owner stating that any permit or wetland replacement plan required for the work has been obtained, or that a permit or replacement plan is not required; **AND** this statement is mailed to the appropriate office with jurisdiction over the wetland or public water prior to initiating the work (see next page for information on where to send this notification).

#### This form is a notification only and is not an application or authorization for any activities described in it.

#### **1. PROJECT INFORMATION**

Project will affect	(check all that	apply):	
---------------------	-----------------	---------	--

🗌 Lake, Watercourse, or Public Waters Wetland 🛛 Non-Public Waters Wetland 🗍 Wetland of Unknown Jurisdiction

Address or description of project location (attach map if necessary):

Legal address 1190 Air Park Dr   Ai	tkin, MN 56431	L.				
County Aitkin	Gov't Lot(s)	Quarter Section(s)	Section(s) 18	Township(s) 47	Range(s) 26	Lot, Block, Subd.

Description of proposed work (include sketch and/or attach additional pages if needed):

The proposed project is located in Aitkin, in the west portion of Aitkin County, Minnesota. The goal of this project is to install two 4-box Precision Approach Path Indicator (PAPI) systems and changing location for Runway End Identifier Lights (REIL) at each end of runway. The construction of the PAPI system involves brining material in for the base of the concrete pad, grading of the area, adding a concrete pad for the PAPI system to sit on and installing a new electric line to power the lights. The new electric line will cross the runway once and will be installed through horizontal directional drilling.

#### 2. LANDOWNER STATEMENT

I certify that, as the owner of the property listed on this form (check one):

I have obtained all permits or approvals required to perform the work described above.

Property Owner (Print Name)	Address						
Jen Thompson	130 Southgate Drive-Suite 200   Aitkin, MN 56431						
Signature	Date 4/1/24	Phone Number and E-mail Address (Optional) (218) 927-2527					

Purchase Agreement for Wetland Banking Credits Aitkin Airport-NAVAID Replacement | 0T5.132913

#### **3. CONTRACTOR VERIFICATION**

By signing below, I verify that I have received a signed copy of this form and will be performing the indicated work as described above.

Company and Individual Performing Proposed Work (Print)	Address	
Signature	Date	Phone Number and E-mail Address (Optional)

Note: The contractor is responsible for ensuring this form is mailed to the appropriate office when complete.

This statement is invalid if any of the above information is not supplied or is inaccurate. Work in violation of this notification requirement is a separate and independent offense from other violations of Minnesota Statutes chapter § 103G and is a misdemeanor punishable by fines up to \$1,000 and/or 90 days in jail. The State Department of Natural Resources (DNR) Commissioner also has the authority to require restoration of any work done without the necessary permits or approvals or work that is beyond what was authorized.

#### 4. INFORMATION AND RESOURCES

A <u>Wetland Conservation Act (WCA) replacement plan</u> is required for any wetland draining, excavation, or filling activity that is not exempt under Minnesota Rules Chapter 8420.0420. A <u>DNR Waters permit</u> is required for any work in public waters.

National <u>wetland inventory maps</u> are available for review at the County Soil and Water Conservation District (SWCD) office and online at <u>http://www.fws.gov/wetlands/Data/Mapper.html</u>. Many wetlands are not identified on the maps but are still restricted from draining, excavating, or filling. If you are unsure the proposed work will affect a wetland, contact your local government unit (LGU) or SWCD for assistance.

Public <u>Waters</u> of the State of Minnesota include the channel to the top of the channel bank for watercourses and the basin from the ordinary high water level waterward for public waters (i.e. lakes) and public waters wetlands. <u>Public waters inventory maps</u> are available for review at the County Auditor's office, DNR Division of Waters regional offices, and online at <a href="http://www.dwater.org/wate

http://www.dnr.state.mn.us/waters/watermgmt\_section/pwi/download.html.

General <u>information</u> about public waters, wetlands, and related regulations are available on the DNR website at <u>http://mndnr.gov</u> and the MN Board of Water and Soil Resources (BWSR) website at <u>http://www.bwsr.state.mn.us</u>.

#### 5. WHERE TO SEND THIS NOTIFICATION

- For work in public waters (lake, watercourse, or public waters wetland), send this completed form to the DNR Regional Enforcement Office serving the project's area. See below for DNR regional office information. A map of DNR regions can be found on the DNR website at: <u>http://files.dnr.state.mn.us/aboutdnr/dnr\_regions.pdf</u>
- For work in any wetland that is not a public waters wetland, send this completed form to the WCA LGU with jurisdiction over the project area. The LGU is usually the County or SWCD, except in urban areas the City is often the LGU. Contact any of these local governments or BWSR for assistance. BWSR also maintains a list of LGUs on its website at: <u>http://www.bwsr.state.mn.us/directories/WCA.pdf</u>.
- If it is not known if the wetland is a public waters wetland, send the completed form to <u>both</u> the DNR Regional Enforcement Office and the WCA LGU.

#### Department of Natural Resources Regional Offices

		6	
Northwest Region:	Northeast Region:	Central Region:	Southern Region:
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
Phone: 218-308-2700	Phone: 218-327-4455	Phone: 651-259-5800	Phone: 507-359-6000

#### Keep a copy of this form for your records!

# Appendix

March 2024



Real People. Real Solutions.



12024

Say

City of Aitkin, Aitkin County, MN





City of Aitkin, Aitkin County, MN

Figure 2-1: Project Overview







City of Aitkin, Aitkin County, MN







City of Aitkin, Aitkin County, MN







City of Aitkin, Aitkin County, MN







City of Aitkin, Aitkin County, MN

Figure 3-3: Proposed Impacts



March 2024 Real People. Real Solutions.





Source: MnGeo WMS (2021), MnDOT, MNDNR

Temporary Wetland Impact: 0.02 acrest-Vegetation Removal Wetland 2-Type 2 Wetland



#### SHEET TITLE

**TITLE SHEET & STATEMENT OF ESTIMATED QUANTITIES CONSTRUCTION SAFETY & PHASING PLAN** 

#### **EXISTING CONDITIONS, REMOVALS PLAN**

**GRADING PLAN** 

ELECTRICAL DETAILS, PAPI DETAILS, REIL DETAILS, EXISTING PHOTOS ELECTRICAL PLAN

THIS PLAN SET CONTAINS 8 SHEETS

ITEM	UNIT	EST QUANT	TTY	
	LUMP SUM	1		
SURE CROSSES	SET	2		
BARRICADES	EACH	4		
S	SET	2		
S	SET	2		
TRICAL VAULT EQUIPMENT	LUMP SUM	1		
AVATION	CU YD	500		
RROW	CU YD	840		
YPE MS	LIN FT	800		
ATION	LS	1		
ABLE INSTALLED IN DUCT BANK OR CONDUIT	LIN FT	11,200		
ABLE INSTALLED IN DUCT BANK OR CONDUIT	LIN FT	316		
V CABLE, INSTALLED IN DUCT BANK OR	LIN FT	640		
CABLE, INSTALLED IN DUCT BANK OR CONDUIT	LIN FT	6,10	0	
) PVC OR HDPE, INCLUDING TRENCHING	LIN FT	6,10	0	
BANK, INCLUDING TRENCH, DIR. BORE	LIN FT	190		
CAL HANDHOLE	EACH	15		
END IDENTIFIER LIGHTING (REIL) SYSTEM	SET	2		
N APPROACH PATH INDICATOR (PAPI) SYSTEM	SET	2		
RICAL SYSTEMS AND TESTING	LS	1		
AITKIN MUNICIPAL AIRPORT	(AIT)		SHEET	
RUNWAY 16/34 NAVAID REPLACEN	/IENT		G0.0	
TITLE SHEET & STATEMENT OF ESTIMAT	ED QUANTITI	ES		

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POINT NUMBER         AVV DESCRIPTION         LATTURE         LONGTURE         EENATION         HEGH         RNSWN 16/34 ENTERNIA           1         16 RELS         M6'33'21.0°         W3'40'36.72'         1203         20         97.5           3         16 RELS         M6'33'21.20'         W3'40'36.72'         1203         20         97.5           4         16 RELS         M6'33'21.20'         W3'40'36.20'         1204         20         97.5           5         16 ARIS         M6'33'16.40'         W3'40'30.50'         1202         20         97.5           6         16 PARIS         M6'33'16.40'         W3'40'30.57'         1203         20         27.5           6         16 PARIS         M6'33'15.00'         W3'40'30.55'         100         162.5           7         16 PARIS         M6'33'15.00'         W3'40'30.55'         1202         20         97.5           11         34 RELS         M6'32'24.30'         W3'40'20.27'         1203         20         97.5           12         34 RELS         M6'32'24.30'         W3'40'20.27'         1205         20         37.5           13         36 PARIS         M6'22'24.30'         W3'40'20.20'         1205         20	28	HAUL ROUTE	N46°33'21.11"	W93°40'34.62"	1205	20	37.5		1	ROFA	6/34	RORA	-	
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LENGTUDE         ELEVATION         HEGHT         SUMMY 16/74 EXPIRENCE           1         16 RELS         Ne/3321.05''         W934/03.6.72'         1203         20         97.5           3         16 RELS         Ne/3321.22''         W934/03.6.3''         1202         20         97.5           4         16 RELS         Ne/3321.22''         W934/03.6.3''         1202         20         97.5           4         16 RELS         Ne/3321.22''         W934/03.6.3''         1202         20         97.5           5         16 PAPIS         Ne/3316.41''         W934/03.02''         1202         20         97.5           6         16 PAPIS         Ne/3315.37''         W934/03.27''         1203         20         37.5           7         16 PAPIS         Ne/3315.37''         W934/03.25''         1201         20         97.5           9         34 RELS         Ne/324.26''         W934/03.25''         1202         20         97.5           11         34 RELS         Ne/324.22.6''         W934/02.25''         1205         20         37.5           13         36 PAPIS         Ne/324.22.6''         W934/02.2.5''         1	26	HAUL ROUTE	N46°32'43.14" N46°32'44.68"	W93°40'30.79" W93°40'19.70"	1204 1205	20 20	752 37.5			H H	NWAY 1	ROFA	12/11	the second
POINT NUMBER         RAW DESCRIPTION         LATTUDE         LONGTUDE         ELEVATION         Heficial         REUNTRY HEGAL           1         16 RELIS         M46'3321.26         W39'4036.72         120         20         97.5           1         16 RELIS         M46'3321.27         W39'403.09         1202         20         97.5           1         16 RELIS         M46'3315.27         W39'403.09         1202         20         97.5           1         16 RAPIS         M46'3315.27         W39'403.07         1205         20         37.5           1         16 PAPIS         M46'3315.57         W39'403.07         1205         20         37.5           1         16 PAPIS         M46'3315.57         W39'403.055         1202         20         97.5           1         16 PAPIS         M46'3315.57         W39'403.055         1202         20         97.5           1         34 RELIS         M46'324.36         W39'402.07         1206         20         97.5           1         34 RELIS         M46'324.36         W39'402.27         1205         20         37.5           1         34 RELIS         M46'324.36         W39'402.27         1205         20 <t< td=""><td>24</td><td>HAUL ROUTE</td><td>N46°32'36.90" N46°32'34.75"</td><td>W93°40'39.66" W93°40'39.50"</td><td>1206</td><td>20</td><td>1511 1558</td><th></th><td>No. W.</td><td>OFA OFA</td><td>RUN</td><td></td><td>1</td><td>AL A</td></t<>	24	HAUL ROUTE	N46°32'36.90" N46°32'34.75"	W93°40'39.66" W93°40'39.50"	1206	20	1511 1558		No. W.	OFA OFA	RUN		1	AL A
POINT NUMBER         RAW DESCRIPTION         LATTUDE         LONGTUDE         ELEVATION         HEIGHT         RUMWY 16/24 CENTERINA           1         16 REILS         N46'33'21.69         W93'40'36.72*         1203         20         97.5           2         16 REILS         N46'33'21.22*         W93'40'36.53*         1204         20         97.5           4         16 REILS         N46'33'21.22*         W93'40'36.53*         1204         20         97.5           5         16 PARIS         N46'33'21.27*         W93'40'30.78*         1202         20         97.5           6         16 PARIS         N46'33'21.47*         W93'40'30.78*         1202         20         97.5           7         16 PARIS         N46'33'1.54*         W93'40'30.78*         1202         20         97.5           8         16 PARIS         N46'3'24.30*         W93'40'1.83*         1202         20         97.5           9         3 HEILS         N46'3'24.30*         W93'40'1.83*         1202         20         97.5           11         3 HEILS         N46'3'24.80*         W93'40'2.25*         1202         20         97.5           12         3 HEILS         N46'3'24.80*         W93'40'2.25*	22	HAUL ROUTE	N46°32'39.39" N46°32'39.05"	W93°40'36.71" W93°40'39.82"	1206	20	1245			ROFA	150	ROFF	1-12 3	and and
POINT NUMBER         RAW DESCRIPTION         LATTUDE         LONGTUDE         ELEVATION         HEIGHT         RCENTERINE           1         16 REILS         N46'33'12.60"         W93'40'36.72"         1203         20         97.5           3         16 REILS         N46'33'12.12"         W93'40'36.53"         1204         20         97.5           4         16 REILS         N46'33'12.14"         W93'40'32.05"         1202         20         97.5           5         16 PAPIS         N46'33'16.41"         W93'40'32.20"         1205         20         37.5           6         16 PAPIS         N46'33'16.37"         W93'40'30.75"         1201         20         162.5           7         16 PAPIS         N46'3'3'16.94"         W93'40'30.75"         1202         20         97.5           8         16 PAPIS         N46'3'3'15.94"         W93'40'2.27"         1205         20         37.5           101         34 REILS         N46'3'3'1.54"         W93'40'2.25"         1202         20         97.5           113         36 PAPIS         N46'3'248.66"         W93'40'2.25"         1205         20         37.5           123         36 PAPIS         N46'3'248.26"         W93'40'2.25"	20	HAUL ROUTE	N46°32'40.53"	W93°40'33.66"	1205	20	1009		- A	RSA +	NOFA RSA	1	6 SP.	X
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGH         RUNWAT 16/34 CENTRILINE           1         1         16 RELIS         N46'33'21.69         W93'40'36.72"         1203         20         97.5           1         1         6 RELIS         N46'33'22.19         W93'40'36.53"         1202         20         97.5           1         1         6 RELIS         N46'33'21.212         W93'40'36.53"         1202         20         97.5           1         1         6 RELIS         N46'33'21.64         W93'40'30.78"         1202         20         97.5           1         1         6 RELIS         N46'33'15.44         W93'40'30.78"         1201         20         162.5           1         1         6 PAPIS         N46'33'15.57         W93'40'30.55"         1202         20         97.5           1         3         8FLIS         N46'32'43.19         W93'40'13.85"         1202         20         97.5           1         3         RELIS         N46'32'43.17         W93'40'12.27"         1202         20         97.5           1         3         RELIS         N46'32'43.66         W93'40'22.52"         1205 <t< td=""><td>19</td><td>STAGING AREA</td><td>N46°32'41.38" N46°32'41.33"</td><td>W93°40'32.06" W93°40'33 14"</td><td>1206</td><td>20</td><td>879</td><th>1.200</th><td></td><td>ROFA</td><td></td><td></td><td>Constant of the second</td><td>23</td></t<>	19	STAGING AREA	N46°32'41.38" N46°32'41.33"	W93°40'32.06" W93°40'33 14"	1206	20	879	1.200		ROFA			Constant of the second	23
POINT NUMBER         RAW DESCRIPTION         LATTUDE         LONGITUDE         ELEVATION         HEIGHT         RUNWAY 16/4 CENTRUINE           1         16 RELIS         N46'33'22.19'         W93'40'36.53'         1202         20         97.5           3         16 RELIS         N46'33'21.22'         W93'40'36.53'         1202         20         97.5           4         16 RELIS         N46'33'21.22'         W93'40'36.53'         1202         20         97.5           5         16 PAPIS         N46'33'1.61'         W93'40'3.2.0''         1202         20         97.5           6         16 PAPIS         N46'33'1.61''         W93'40'3.2.0''         1202         20         97.5           7         16 PAPIS         N46'33'1.5.7'         W93'40'3.2.7''         1205         20         37.5           8         16 PAPIS         N46'3'3.1.5.9''         W93'40'3.2.7''         1202         20         97.5           10         34 RELIS         N46'3'3'4.64''         W93'40'1.8.5''         1202         20         97.5           11         34 RELIS         N46'3'2'4.66'         W93'40'2.2.5''         1204         20         97.5           12         34 RELIS         N46'3'2'4.86''         W	17	STAGING AREA	N46°32'42.07" N46°32'42.12"	W93°40'33.20" W93°40'32.13"	1206 1206	20 20	937 864	AL ASA	12	500	POFZ RSA			
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUMWAY 16/4 CENTERLINE           1         16 REILS         N46'33'21.69'         W93'40'36.72'         1203         20         97.5           2         16 REILS         N46'33'21.21'         W93'40'36.53'         1202         20         97.5           3         16 REILS         N46'33'21.21'         W93'40'36.53'         1202         20         97.5           4         16 REILS         N46'33'21.21'         W93'40'32.50'         1205         20         97.5           5         16 PAPIS         N46'33'15.44''         W93'40'32.50'         1205         20         37.5           6         16 PAPIS         N46'33'15.57''         W93'40'32.27'         1205         20         37.5           7         16 PAPIS         N46'33'15.90''         W93'40'32.50''         1202         20         97.5           9         34 REILS         N46'32'43.67''         W93'40'18.36''         1202         20         97.5           10         34 REILS         N46'32'43.17''         W93'40'18.36''         1202         20         97.5           11         34 REILS         N46'32'43.17''	15	36 PAPIS 36 PAPIS	N46°32'48.90" N46°32'48.33"	W93°40'24.48" W93°40'24.25"	1198 1200	20	162.5 162.5	11.15	onFA	RSA				2.6
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUMWA'I 16/34 CENTERLINE           1         16 REILS         N46'33'21.69'         W93'40'36.72''         1203         20         97.5           2         16 REILS         N46'33'21.29''         W93'40'36.53''         1202         20         97.5           3         16 REILS         N46'33'21.27''         W93'40'36.53''         1204         20         97.5           4         16 REILS         N46'33'21.71''         W93'40'36.53''         1204         20         97.5           5         16 PAPIS         N46'33'16.41''         W93'40'30.78''         1202         20         97.5           6         16 PAPIS         N46'33'15.67''         W93'40'30.78''         1201         20         162.5           7         16 PAPIS         N46'33'15.90''         W93'40'36.55''         1202         20         97.5           10         34 REILS         N46'32'43.19''         W93'40'18.36''         1202         20         97.5           11         34 REILS         N46'32'43.19''         W93'40'20.97''         1204         20         97.5           12         34 REILS         N46'32'43.17''	14	36 PAPIS	N46°32'49.23"	W93°40'22.75"	1205	20	37.5	MMis	2		ROFA			15
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUMWAY 16/34 CENTERLINE           1         16 REILS         N46'33'21.69'         W93'40'36.72'         1203         20         97.5           2         16 REILS         N46'33'22.19'         W93'40'36.53'         1202         20         97.5           3         16 REILS         N46'33'21.22'         W93'40'36.53'         1204         20         97.5           4         16 REILS         N46'33'15.14'         W93'40'32.50'         1202         20         97.5           5         16 PAPIS         N46'33'15.57'         W93'40'32.50'         1205         20         37.5           6         16 PAPIS         N46'33'15.57'         W93'40'30.55'         1201         20         162.5           7         16 PAPIS         N46'33'15.57'         W93'40'30.55'         1201         20         162.5           9         34 REILS         N46'32'43.67'         W93'40'30.55'         1202         20         97.5           10         34 REILS         N46'32'43.67'         W93'40'30.57'         1202         20         97.5           11         34 REILS         N46'32'43.69'         W93'40	12	34 REILS 36 PAPIS	N46°32'43.17" N46°32'48.66"	W93°40'21.17" W93°40'22.52"	1205 1205	20 20	97.5 37.5	Mr. H	LOFA ROFZ	RSA _		alution of		
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUNWAY 16/34 CENTERLINE           1         16 REILS         N46°33'22.19°         W93°40'36.72°         1203         20         97.5           2         16 REILS         N46°33'22.19°         W93°40'34.10°         1202         20         97.5           3         16 REILS         N46°33'21.22°         W93°40'36.53°         1204         20         97.5           4         16 REILS         N46°33'21.71°         W93°40'36.53°         1204         20         97.5           5         16 PAPIS         N46°33'16.14°         W93°40'32.50°         1202         20         97.5           6         16 PAPIS         N46°33'15.57°         W93°40'32.20°         1205         20         37.5           7         16 PAPIS         N46°33'15.57°         W93°40'30.55°         1201         20         162.5           9         34 REILS         N46°32'43.67°         W93°40'18.55°         1202         20         97.5           10         34 REILS         N46°32'43.19°         W93°40'18.55°         1202         20         97.5           10         34 REILS         N46°32'43.19°         W93°40'	11	34 REILS	N46°32'42.69"	W93°40'20.97"	1202	20	97.5	ALL ALL	111	× 5	670 87			1
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUMWAY 16/34 CENTERLINE           1         16 REILS         N46'33'21.69"         W93'40'36.72"         1203         20         97.5           2         16 REILS         N46'33'21.21"         W93'40'36.53"         1202         20         97.5           3         16 REILS         N46'33'21.22"         W93'40'36.53"         1204         20         97.5           4         16 REILS         N46'33'21.71"         W93'40'33.91"         1202         20         97.5           5         16 PAPIS         N46'33'16.14"         W93'40'32.50"         1205         20         37.5           6         16 PAPIS         N46'33'15.57"         W93'40'32.27"         1205         20         37.5           7         16 PAPIS         N46'33'15.90"         W93'40'30.55"         1201         20         162.5           8         16 PAPIS         N46'33'15.90"         W93'40'30.55"         1201         20         162.5           8         16 PAPIS         N46'33'15.90"         W93'40'30.55"         1201         20         162.5	9	34 REILS	N46°32'43.67" N46°32'43.19"	W93°40'18.55" W93°40'18.36"	1202 1202	20 20	97.5	1 Partal	ROFA ROFZ	RSA .			2	- 24
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUNWAY 16/34 CENTERLINE           1         16 REILS         N46°33'21.69"         W93°40'36.72"         1203         20         97.5           2         16 REILS         N46°33'21.21"         W93°40'36.53"         1202         20         97.5           3         16 REILS         N46°33'21.22"         W93°40'36.53"         1204         20         97.5           4         16 REILS         N46°33'21.71"         W93°40'36.53"         1204         20         97.5           5         16 PAPIS         N46°33'21.71"         W93°40'30.78"         1202         20         97.5           6         16 PAPIS         N46°33'16.14"         W93°40'30.78"         1202         20         37.5           6         16 PAPIS         N46°33'15.57"         W93°40'30.78"         1201         20         162.5           7         16 PAPIS         N46°33'15.57"         W93°40'32.27"         1205         20         37.5	8	16 PAPIS	N46°33'15.90"	W93°40'30.55"	1201	20	162.5	Eng.		ROFA	ALL R			
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUNWAY 16/34 CENTERLINE           1         16 REILS         N46°33'21.69"         W93°40'36.72"         1203         20         97.5           2         16 REILS         N46°33'21.29"         W93°40'36.53"         1202         20         97.5           3         16 REILS         N46°33'21.71"         W93°40'36.53"         1204         20         97.5           4         16 REILS         N46°33'21.71"         W93°40'33.91"         1202         20         97.5           5         16 PAPIS         N46°33'16.14"         W93°40'32.50"         1205         20         37.5	6	16 PAPIS	N46°33'16.47"	W93°40'30.78" W93°40'32.27"	1201	20	162.5	614	ROFA ROFZ SA	RSA	S. Lout Sel			
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUNWAY 16/34 CENTERLINE           1         16 REILS         N46°33'21.69"         W93°40'36.72"         1203         20         97.5           2         16 REILS         N46°33'22.19"         W93°40'36.53"         1202         20         97.5           3         16 REILS         N46°33'21.22"         W93°40'36.53"         1204         20         97.5           4         16 REILS         N46°33'21.71"         W93°40'36.93"         1202         20         97.5	5	16 PAPIS	N46°33'16.14"	W93°40'32.50"	1202	20	37.5	101	× 1 × 3	* 4 PA			Stor 2	
POINT NUMBER     RAW DESCRIPTION     LATITUDE     LONGITUDE     ELEVATION     HEIGHT     RUNWAY 16/34 CENTERLINE       1     16 REILS     N46°33'21.69"     W93°40'36.72"     1203     20     97.5       2     16 REILS     N46°33'22.19"     W93°40'34.10"     1202     20     97.5	3	16 REILS	N46°33'21.22" N46°33'21.71"	W93°40'36.53" W93°40'33.91"	1204 1202	20 20	97.5 97.5	OFA	ROFZ +	RSA 2 P				23.4
POINT NUMBER         RAW DESCRIPTION         LATITUDE         LONGITUDE         ELEVATION         HEIGHT         RUNWAY 16/34 CENTERLINE           1         16 REILS         N46"33'21.69"         W93"40'36.72"         1203         20         97.5	2	16 REILS	N46°33'22.19"	W93°40'34.10"	1202	20	97.5	all added	RORBA	ROFZ	· Andrew	110	the second	
	2	16 KEILS	N46°33'21.69"	W93°40'36.72"	1203	20	97.5		100	RO		5003063	A 19 5 19 5	10000

#### AIRCRAFT OPERATIONS AREA

- RUNWAY 16/34 SHALL BE CLOSED DURING WORK
- ٠
- AIRPORT SHALL DEACTIVATE RUNWAY 16/34 LIGHTING SYSTEM
- RUNWAY 8/26 SHALL BE CLOSED DURING PHASE 1
- AIRPORT SHALL ISSUE ALL NOTAMS.

#### CONSTRUCTION EQUIPMENT:

#### SWEEPING AND CLEANING:

#### HAUL ROUTES:

- CONTRACTOR MUST ADVISE THEIR MOVEMENT ON CTAF. THE AIRPORT FREQUENCY IS 123.05 MHZ.

#### STAGING AREA:







	DESIGNED	NO.	ISSUED FOR	DATE	
	DRAWN				
	CHECKED				
	CLIENT PROJ. NO. 0T5.132913	$\mathbb{H}$			

7656 DESIGN ROAD, SUITE 200 BAXTER, MINNESOTA 56425 Phone: (218) 825-0684 Email: Baxter@bolton-menk.com www.bolton-menk.com

#### SAFETY AND CONSTRUCTION NOTES

(SEE CONSTRUCTION SAFETY AND PHASING PLAN IN SPECIFICATIONS FOR ADDITIONAL DETAIL)

RUNWAY 34 CLOSURE CROSS TO BE PLACED AS SHOWN OUTSIDE OF RUNWAY 8/26 ROFA

 ALL CONSTRUCTION EQUIPMENT MUST BE MARKED WITH A 3-FEET X 3-FEET ORANGE AND WHITE CHECKERED FLAG. A FLASHING AMBER BEACON IS OPTIONAL BUT IS REQUIRED DURING TIMES OF LOW VISIBILITY. CONTRACTOR MUST OBTAIN APPROVAL FROM THE ENGINEER FOR ANY EQUIPMENT WHICH EXCEEDS A HEIGHT OF 20-FEET.

CONTRACTOR SHALL HAVE A SWEEPER ON-SITE AT ALL TIMES TO PICKUP DEBRIS FROM ACTIVE PAVEMENT AREA AS IT OCCURS.

 HAUL ROUTES AND ACCESS TO THE CONSTRUCTION SITE ARE DEPICTED ON THIS SHEET. GROUND OPERATIONS ARE UNCONTROLLED AT THE AIRPORT. WHEN A RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC, THE

STAGING AREA SHALL BE RESTORED TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE AFTER PROJECT IS COMPLETED.
 EXACT LOCATION TO BE DETERMINED BY ENGINEER.

RUNWAY 16/34 NAVAID REPLACEMENT
CONSTRUCTION SAFETY & PHASING PLAN







AITKIN MUNICIPAL AIRPORT (AIT)	
RUNWAY 16/34 NAVAID REPLACEMENT	



ΡΑΡΙ	DETAILS



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**REIL DETAILS & EXISTING PHOTOS** 

