



**US Army Corps  
of Engineers**  
St Paul District

**APPLICANT:**

Minnesota Department of  
Transportation

# Public Notice

**ISSUED: July 30, 2021**

**EXPIRES: August 13, 2021**

**REFER TO:**

2015-04662-BGO

**SECTION:404 - Clean Water Act**

1. APPLICATION FOR PERMIT TO discharge dredged or fill material into 12.37 acres of wetlands and 2,514 linear feet (1.31 acres) of tributary.

## 2. SPECIFIC INFORMATION

### APPLICANT

Lance Kalthoff  
Minnesota Department of Transportation  
2505 Transportation Road  
Willmar, MN 56201  
(320) 214-6253

### AGENT

Ted McCaslin  
HR Green  
2550 University Ave W  
St. Paul, MN 55114  
(651) 659-7708

**PROJECT LOCATION:** The project site is in Sections 6, 21-24, and 27-31, Township 123 North, Range 31 West, and Sections 1-2, 11-12, 25, and 36, Township 123 North, Range 32 West, Stearns County, Minnesota. The approximate center coordinates are Latitude 45.436829, Longitude -94.601096.

**DESCRIPTION OF PROJECT:** The Minnesota Department of Transportation (MnDOT) proposes to convert Trunk Highway (TH) 23 from the city of Paynesville to the city of Richmond from its current configuration as a two-lane highway section, to a four-lane divided highway section (SP 7305-124). The project length is approximately 8.7 miles and is located entirely within Stearns County. The project would retain most of the existing two-lane roadway as a portion of the expanded four-lane design.

Near Paynesville, at the western terminus of the project, the expansion lanes of the proposed design widen TH 23 along the north side of the existing alignment. The alignment of the additional lanes remain north through the Roscoe Waterfowl Production Area (WPA). Near the city of Roscoe both lanes of the proposed design shift south of the existing TH 23 alignment for approximately 0.5 miles. This shift of the alignment moves the highway further from the city of Roscoe and corrects curve deficiencies (for the proposed design) along the existing highway corridor. Continuing east of Roscoe, the proposed project ties back in with the existing highway corridor. From this point the expansion lanes are located to the south side of the existing highway for approximately 1.5 miles. Near County Road 123, east of Roscoe, the expansion lanes shift north of the existing highway corridor and remain north of the existing travel lanes to the eastern terminus of the project.

The purpose of the project is to convert a two-lane portion of TH 23 to four lanes. The TH 23 corridor connects many cities including Pipestone, Marshall, Granite Falls, Willmar, and St. Cloud. The segment of TH 23 between Willmar and I-94 is approximately 53 miles. Of those 53 miles, all but 15 miles have been constructed as a four-lane highway. TH 23 between Paynesville and Richmond, also known as the North Gap, is one of two remaining segments of two-lane roadway from Willmar to St. Cloud. Converting the North Gap to four lanes is an

essential part of the long-standing effort to construct a four-lane roadway for the length of the corridor.

The project is needed because TH 23 is an important interregional corridor and key artery for the regional economy. The project would address the needs of providing additional capacity, improving the movement of freight, and increasing roadway safety. The project would also provide the design consistency of a four-lane rural highway and help meet driver expectancy of a four-lane facility throughout this segment of the TH 23 corridor. This corridor-wide consistency further enhances the mobility and safety benefits already provided by the project. Beneficiaries of the project would include motorists and freight traffic in the immediate area and region. The improvements are anticipated to improve operations and safety conditions for all users. These improvements would maximize benefits in safety and mobility and enhance the opportunity to foster economic growth in the region.

The project is scheduled to begin construction in fall 2021 with major construction beginning in early 2022. Project completion is expected in October 2023.

**QUANTITY, TYPE, AND AREA OF FILL:** Construction of the proposed project would result in the placement of permanent fill material into 9.02 acres of wetlands and 1,889 linear feet (0.94 acre) of tributary. Permanent fill impacts are primarily associated with construction of the expanded TH 23 corridor, including road widening and intersection improvements, culvert construction, and ponding areas for stormwater and runoff management. Tributary impacts would occur at six locations within the project area – a county ditch (DR Ditch), downstream of the Roscoe WPA wetland outlet (WPA Outlet), a tributary of Kolling Creek (Culvert 73X08), and three locations along Kolling Creek (Culvert 73X05, 73X06, and 73J35). A stream remainder restoration at Kolling Creek Culvert 73X08 would add 515 linear feet of stream length. Permanent impacts to tributaries include areas where stream beds would be piped or moved from existing stream alignments.

An additional 1.02 acres of wetlands and 175 linear feet (0.06 acre) of tributary would be temporarily impacted during construction and restored. Temporary fill impacts would occur as a result of staging areas and heavy equipment access. These impacts would remain in place for up to 75 days for “light surface grading” and 80 or more days for “surface grading” impacts, as indicated on the enclosed Aquatic Resource Impact Summary table. Most of the surface grading temporary impacts would remain in place for up to 500 days and are located at soil surcharge areas. Soil preparation for restoration of these temporary surcharge impacts includes removal of the excess soils to pre-existing grade and reseeding with Minnesota seed mix 33-261. Soil subsidence, if any, would be restored to pre-existing grade with topsoil.

**VEGETATION IN AFFECTED AREA:** The wetlands within the project area consist of floodplain forest (Type 1) wetlands, fresh (wet) meadow (Type 2) wetlands, shallow marsh (Type 3) wetlands, and hardwood swamp (Type 7) wetlands.

**SOURCE OF FILL MATERIAL:** MnDOT and its contractors would be required to use suitable fill material free of pollutants.

**SURROUNDING LAND USE:** Existing land use and development within the project area is rural in nature. Agricultural and rural residential uses dominate the landscape, with denser residential and commercial/industrial uses concentrated in Paynesville, Roscoe, and Richmond.

**DESCRIPTION OF DREDGING OR EXCAVATION:** The proposed project includes permanent excavation/grading of 2.17 acres of wetlands. Permanent wetland cut impacts are primarily associated with ditch construction and ponding areas for stormwater and runoff management, and stream remeander restoration at Kolling Creek Culvert 73X08. An additional 0.16 acre of wetlands and 450 linear feet (0.31 acre) of tributary would be temporarily impacted during construction and restored. Temporary cut impacts would occur as a result of culvert and ditch construction, including temporary stream diversions at the tributary crossings.

**THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE:** The applicant does not propose to use any potentially toxic materials. All fill material used on-site would be free of contaminants.

**THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT:** Temporary erosion and sediment control measures would be implemented throughout the construction activities to protect water quality. The project also proposes to use vegetated and grassed slopes and ditches and infiltration basins to treat stormwater runoff. The basins would treat both existing and new impervious areas.

**MITIGATION:** Appropriate compensatory mitigation would be required to offset the unavoidable impacts to Waters of the U.S. MnDOT proposes to satisfy compensatory mitigation requirements for permanent wetland losses by debiting Corps-approved wetland credits from a mitigation bank, serving Bank Service Area 7.

The project has also been designed to minimize tributary losses by incorporating on-site design measures to maintain ecological connectivity at the tributary crossings. Relocated stream sections near the culverts would include a baseflow channel and floodplain to retain existing function through bioengineering and seeding. The proposed stream remeander restoration at Kolling Creek Culvert 73X08 would add 515 linear feet of stream length. Also, culverts would be fish-passable and provide reconnections through recessed culverts. Kolling Creek and the Kolling Creek tributary crossings have been designed to meet or exceed Minnesota DNR Aquatic organism Passage guidelines and include providing floodplain culverts/wildlife crossings with directive fencing. Culvert 75X08 also includes a recessed 6-inch weir to allow downstream sedimentation of a natural substrate over time within the culvert. Wildlife passage culverts, or "critter crossings" near the culverts would provide wildlife access under the road and are located below the 100-year floodplain elevation to provide a flow path under TH 23 during floods.

### 3. FEDERALLY-LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT.

None were identified by the applicant or are known to exist in the permit area. However, Stearns County is within the known or historic range of the following Federally-listed species:

Northern Long-Eared Bat	Hibernates in caves and mines – swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.
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This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally-listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

#### 4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

An approved jurisdictional determination was previously prepared on August 21, 2020 and concluded that 17 wetlands labeled as Wetland A, Wetland B, Wetland 37, Wetland 6, Wetland 29, Wetland 9, Wetland 10, Wetland 34, Wetland 14, Wetland 36, Wetland 24, Wetland 16, Wetland 17, Wetland 21, Wetland 38, Wetland 20.2 and Wetland 19, and 18 roadside ditches labeled as Wetland 3, Wetland 11, Wetland 11.1, Wetland 12.1, Wetland 12.2, Wetland 26.1, Wetland 27.1, Wetland 15, Wetland 23.1, Wetland 24.1, Wetland 25.1, Wetland 16.1, Wetland 21.1, Wetland 21.2, Wetland 22, Wetland 18, Wetland 18.1 and Wetland 20.1, as shown on the enclosed figures, are not Waters of the U.S. subject to Corps jurisdiction. Therefore, work in those aquatic resources does not require authorization. All the labels for these non-jurisdictional waters are crossed out (in red) on the enclosed figures.

#### 5. STATE SECTION 401 WATER QUALITY CERTIFICATION

A permit will not be granted until the Minnesota Pollution Control Agency (MPCA) has issued or waived Section 401 WQC certification and the U.S. Environmental Protection Agency (USEPA) neighboring jurisdiction process is completed. Corps Section 404 Clean Water Act decisions may not be finalized until after the USEPA completes this process.

The MPCA has indicated that this public notice serves as its public notice of the application for Section 401 water quality certification under Minnesota Rules Part 7001 Section 401 of the Clean Water Act (33 U.S. Code 1341 (a)(1)). The MPCA has indicated that if, at a later date, it makes a preliminary anti-degradation determination regarding Section 401 Water Quality Certification, it will at that time plan to issue an additional public notice under Minnesota Rules Part 7001.

Any comments relative to MPCA's Section 401 Certification for the activity proposed in this public notice may be sent to:

Minnesota Pollution Control Agency  
Resource Management and Assistance Division  
Attention: 401 Certification  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194  
401Certification.PCA@state.mn.us

#### 6. HISTORICAL/ARCHAEOLOGICAL

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

## 7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

## 8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

## REPLIES/COMMENTS

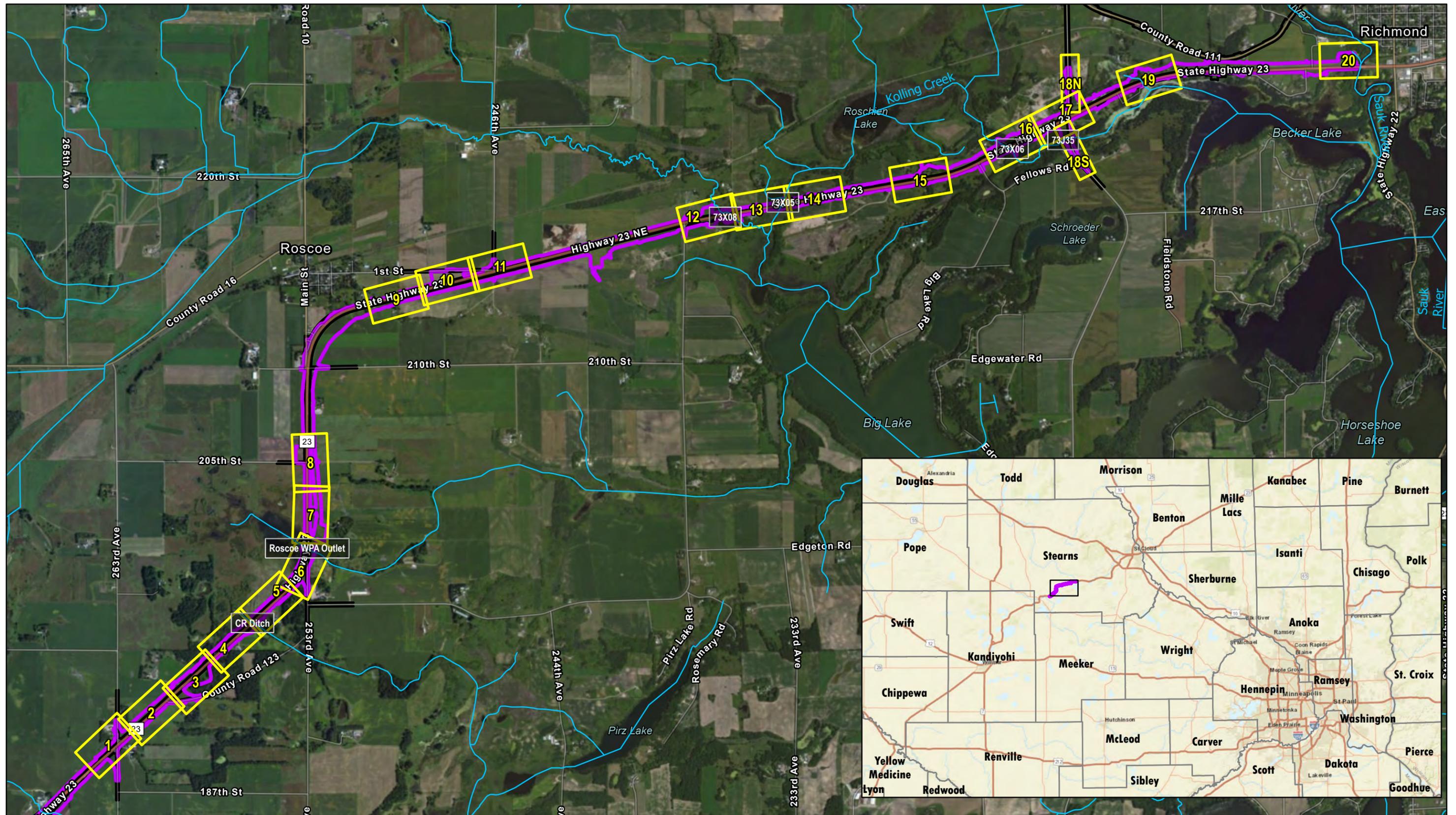
Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be sent to Ben Orne at [Benjamin.G.Orne@usace.army.mil](mailto:Benjamin.G.Orne@usace.army.mil).

IF YOU HAVE QUESTIONS ABOUT THE PROJECT, please contact Ben Orne in our St. Paul office at (651) 290-5280 or [Benjamin.G.Orne@usace.army.mil](mailto:Benjamin.G.Orne@usace.army.mil).

To receive Public Notice notifications, go to: <https://www.mvp.usace.army.mil/Contact/RSS/> and subscribe to the RSS Feed for which you would like to receive Public Notices.

Enclosures: 2015-04662-BGO PN Attachments, Pages 1-28 of 28



Project Location Map  
 Wetland Impact Sheet Legend  
 Mndot TH23 North Gap  
 SP 7305-124

-  Existing ROW
-  Construction Limits
-  Wetland Impact Sheets
-  NHD Flowline



PART FOUR: Aquatic Resource Impact Summary

Aquatic Resource ID	Aquatic Resource Type	Type of Impact	Duration of Impact (Temporary Impact Duration)	Size of Impact (acres) Linear Feet	Purpose and Need of Temporary Impact	Existing Plant Community Type	County, Major Watershed#, BSA#	USACE Jurisdiction (JD 8/20)	Anticipated Section 404 CWA Mitigation Required	Anticipated WCA Mitigation Required	DNR PWI
18	Wetland	Fill	Permanent	0.064		Fresh (Wet) Meadow	Stearns, #18, #7	No	No	Yes	No
<del>18.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.274</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
20.1	Wetland	Fill	Permanent	0.163		Ditch-Shallow Marsh	Stearns, #18, #7	No	No	No	No
<del>20.1</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.034</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
20.2	Wetland	Cut	Permanent	0.019		Shallow Marsh	Stearns, #18, #7	No	No	Yes	No
20.2	Wetland	Fill	Temporary (30 days)	0.006	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #18, #7	No	No	No	No
20	Wetland	Fill	Permanent	0.098		Shallow Marsh	Stearns, #18, #7	Yes	Yes	Yes	No
20	Wetland	Cut	Permanent	0.115		Shallow Marsh	Stearns, #18, #7	Yes	Yes	Yes	No
20	Wetland	Fill	Temporary (30 days)	0.028	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #18, #7	Yes	No	No	No
<del>17</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.269</del>		<del>Fresh (Wet) Meadow</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>Yes</del>	<del>No</del>
<del>17</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.055</del>		<del>Fresh (Wet) Meadow</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>Maybe</del>	<del>No</del>
17	Wetland	Fill	Temporary (30 days)	0.011	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #18, #7	No	No	No	No
38	Wetland	Fill	Temporary (30 days)	0.002	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #18, #7	No	No	No	No
16	Wetland	Fill	Permanent	1.018		Shallow Marsh	Stearns, #18, #7	No	No	Yes	No
16	Wetland	Fill	Temporary (60 days)	0.027	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #18, #7	No	No	Yes	No
<del>16.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.139</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
21.2	Wetland	Fill	Permanent	0.181		Shallow Marsh	Stearns, #18, #7	No	No	Yes	No
<del>21.2</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.058</del>		<del>Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>Yes</del>	<del>No</del>
<del>21.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.089</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
21	Wetland	Fill	Permanent	0.115		Shallow Marsh	Stearns, #18, #7	No	No	Yes	No
21	Wetland	Fill	Temporary (60 days)	0.033	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #18, #7	No	No	Yes	No

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<del>22</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.118</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>22</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.036</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
15.1	Wetland	Fill	Permanent	0.869		Hardwood Swamp	Stearns, #18, #7	Yes	Yes	Yes	No
15.1	Wetland	Fill	Temporary (60 days)	0.020	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Hardwood Swamp	Stearns, #18, #7	Yes	Yes	Yes	No
15.1T	Tributary	Fill	Permanent	116 LF		Tributary	Stearns, #18, #7	Yes	Yes	No*	No
15.1T	Tributary	Fill	Permanent	0.101		Tributary	Stearns, #18, #7	Yes	Yes	No*	No
15.1T	Tributary	Cut	Temporary	11.2 LF	Light surface grading to accommodate pipe construction	Tributary	Stearns, #18, #7	Yes	No	No*	No
15.1T	Tributary	Cut	Temporary (60 days)	0.005	Light surface grading to accommodate pipe construction	Tributary	Stearns, #18, #7	Yes	No	No*	No
23	Wetland	Fill	Permanent	0.130		Fresh (Wet) Meadow	Stearns, #18, #7	Yes	Yes	Yes	No
23	Wetland	Cut	Permanent	0.088		Fresh (Wet) Meadow	Stearns, #18, #7	Yes	Yes	Maybe	No
23	Wetland	Fill	Temporary (60 days)	0.003	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #18, #7	Yes	No	No	No
23.1T	Tributary	Fill	Permanent	25 LF		Tributary	Stearns, #18, #7	Yes	Yes	No*	No
23.1T	Tributary	Fill	Permanent	0.008		Tributary	Stearns, #18, #7	Yes	Yes	No*	No
23.1T	Tributary	Cut	Temporary	56 LF	Light surface grading to accommodate pipe and ditch construction	Tributary	Stearns, #18, #7	Yes	No	No*	No
23.1T	Tributary	Cut	Temporary (60 days)	0.029	Light surface grading to accommodate pipe and ditch construction	Tributary	Stearns, #18, #7	Yes	No	No*	No
<del>23.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.086</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>15</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.688</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>24.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.049</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>24</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.011</del>		<del>Fresh (Wet) Meadow</del>	<del>Stearns, #18, #7</del>	<del>No</del>	<del>No</del>	<del>Yes</del>	<del>No</del>
24	Wetland	Fill	Temporary (30 days)	0.010	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #18, #7	No	No	No	No
14	Wetland	Fill	Permanent	0.230		Fresh (Wet) Meadow	Stearns, #16, #7	No	No	Yes	No
14	Wetland	Fill	Temporary (60 days)	0.010	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #16, #7	No	No	No	No
36	Wetland	Cut	Permanent	0.009		Fresh (Wet) Meadow	Stearns, #16, #7	No	Yes	Maybe	No

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36	Wetland	Fill	Temporary (60 days)	0.005	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #16, #7	No	No	No	No
<del>25.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.090</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>25.1</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.027</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
25	Wetland	Fill	Permanent	0.408		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
25	Wetland	Cut	Permanent	0.078		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
13	Wetland	Fill	Permanent	1.168		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
13	Wetland	Cut	Permanent	0.057		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
13	Wetland	Fill	Temporary (75 days)	0.107	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
13.1	Wetland	Fill	Permanent	0.177		Ditch-Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
13.1	Wetland	Cut	Permanent	0.006		Ditch-Shallow Marsh	Stearns, #16, #7	Yes	Yes	No	No
26	Wetland	Fill	Permanent	1.582		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Yes	No
26	Wetland	Cut	Permanent	0.530		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Maybe	No
26	Wetland	Fill	Temporary (75 days)	0.142	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #16, #7	Yes	No	No	No
26.1T	Tributary	Fill	Permanent	178 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	No
26.1T	Tributary	Fill	Permanent	0.070		Tributary	Stearns, #16, #7	Yes	Yes	No*	No
26.1T	Tributary	Cut	Temporary (60 days)	42 LF	Light surface grading to accommodate pipe and ditch construction	Tributary	Stearns, #16, #7	Yes	No	No*	No
26.1T	Tributary	Cut	Temporary (60 days)	0.027	Light surface grading to accommodate pipe and ditch construction	Tributary	Stearns, #16, #7	Yes	No	No*	No
<del>26.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.179</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>26.1</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.075</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
26.1	Wetland	Fill	Temporary	0.002	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Ditch-Fresh (Wet) Meadow	Stearns, #16, #7	No	No	No	No
<del>12.2</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.029</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
12.2	Wetland	Cut	Permanent	0.014		Ditch-Shallow Marsh	Stearns, #16, #7	No	No	No	No
12.3	Wetland	Fill	Permanent	0.012		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
12.3	Wetland	Cut	Permanent	0.014		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No

PART FOUR: Aquatic Resource Impact Summary

Aquatic Resource ID	Aquatic Resource Type	Type of Impact	Duration of Impact (Temporary Impact Duration)	Size of Impact (acres) Linear Feet	Purpose and Need of Temporary Impact	Existing Plant Community Type	County, Major Watershed#, BSA#	USACE Jurisdiction (JD 8/20)	Anticipated Section 404 CWA Mitigation Required	Anticipated WCA Mitigation Required	DNR PWI
12.3	Wetland	Fill	Temporary (60 days)	0.009	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
27	Wetland	Fill	Permanent	0.027		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
27	Wetland	Cut	Permanent	0.214		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
27	Wetland	Cut	Temporary (75 days)	0.033	Light surface grading to accommodate road embankment and ditch conveyance during construction	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
27	Wetland	Fill	Temporary (75 days)	0.085	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
<del>12.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.020</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
12.1	Wetland	Cut	Permanent	0.049		Ditch-Shallow Marsh	Stearns, #16, #7	No	No	No	No
12	Wetland	Cut	Permanent	0.088		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
12	Wetland	Fill	Temporary (60 days)	0.025	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
<del>27.1</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.172</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<del>27.1</del>	<del>Wetland</del>	<del>Cut</del>	<del>Permanent</del>	<del>0.035</del>		<del>Ditch-Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
34	Wetland	Fill	Temporary (30 days)	0.008	<del>Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.</del>	Fresh (Wet) Meadow	Stearns, #16, #7	No	No	No	No
11	Wetland	Fill	Permanent	0.030		Shallow Marsh	Stearns, #16, #7	No	No	Yes	No
11.1	Wetland	Fill	Permanent	0.282		Ditch-Shallow Marsh	Stearns, #16, #7	No	No	No	No
10	Wetland	Fill	Permanent	0.037		Fresh (Wet) Meadow	Stearns, #16, #7	No	No	Yes	No
10	Wetland	Cut	Permanent	0.011		Fresh (Wet) Meadow	Stearns, #16, #7	No	No	Maybe	No
9	Wetland	Fill	Permanent	0.120		Fresh (Wet) Meadow	Stearns, #16, #7	No	No	Yes	No
9	Wetland	Cut	Permanent	0.122		Fresh (Wet) Meadow	Stearns, #16, #7	No	No	Maybe	No
9	Wetland	Fill	Temporary (60 days)	0.034	<del>Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.</del>	Fresh (Wet) Meadow	Stearns, #16, #7	No	No	No	No
8.1T	Tributary	Fill	Permanent	370 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
8.1T	Tributary	Fill	Permanent	0.195		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
8	Wetland	Fill	Permanent	0.275		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Yes	No

PART FOUR: Aquatic Resource Impact Summary

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8	Wetland	Cut	Permanent	0.023		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Yes	No
8	Wetland	Fill	Temporary (450 days)	0.117	Surface disturbance to accommodate temporary placement of surcharge soil above existing wetland soils. Surcharge soil to be removed after construction.	Fresh (Wet) Meadow	Stearns, #16, #7	Yes	No	No	No
8	Wetland	Cut	Temporary (450 days)	0.130	Surface grading to accommodate temporary stream diversion in surcharge area.	Fresh (Wet) Meadow	Stearns, #16, #7	Yes	No	No	No
28.3	Wetland	Fill	Permanent	0.459		Floodplain forest	Stearns, #16, #7	Yes	Yes	Yes	No
28.3	Wetland	Cut/Wetland Restoration†	Permanent	0.838		Floodplain forest	Stearns, #16, #7	Yes	Yes	Maybe	No
28.2T	Tributary	Fill	Permanent	108 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
28.2T	Tributary	Fill	Permanent	0.040		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
28.2T	Tributary	Cut	Temporary	186 LF	In-stream grading to accommodate remainder elevations as part of stream improvements.	Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
28.2T	Tributary	Cut	Temporary (75 days)	0.118	In-stream grading to accommodate remainder elevations for stream restoration as part of stream improvements.	Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
7.2	Wetland	Fill	Permanent	1.238		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
7.2	Wetland	Fill	Temporary (500 days)	0.069	Surface disturbance to accommodate temporary placement of surcharge soil above existing wetland soils and road embankment construction.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
7.1T	Tributary	Fill	Permanent	213 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
7.1T	Tributary	Fill	Permanent	0.019		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
7.1T	Tributary	Cut	Temporary	41 LF	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Tributary	Stearns, #16, #7	Yes	No	No*	Yes
7.1T	Tributary	Cut	Temporary (500 days)	0.009	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Tributary	Stearns, #16, #7	Yes	No	No*	Yes
28.1T	Tributary	Fill	Permanent	124 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
28.1T	Tributary	Fill	Permanent	0.065		Tributary	Stearns, #16, #7	Yes	No	No*	Yes
28	Wetland	Fill	Permanent	0.483		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Yes	No
28	Wetland	Cut	Permanent	0.107		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Yes	No
28	Wetland	Fill	Temporary (500 days)	0.165	Surface disturbance to accommodate temporary placement of surcharge soil above existing wetland soils and road embankment construction.	Fresh (Wet) Meadow	Stearns, #16, #7	Yes	No	No	No

PART FOUR: Aquatic Resource Impact Summary

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7	Wetland	Fill	Permanent	0.963		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
7	Wetland	Fill	Temporary (500 days)	0.038	Surface disturbance to accommodate temporary placement of surcharge soil above existing wetland soils and road embankment construction.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
<del>6</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.073</del>		<del>Fresh (Wet) Meadow</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>Yes</del>	<del>No</del>
4.1T	Tributary	Fill	Permanent	359 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
4.1T	Tributary	Fill	Permanent	0.146		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
4.1T	Tributary	Fill	Temporary (450 days)	63 LF	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
4.1T	Tributary	Fill	Temporary (450 days)	0.020	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
4	Wetland	Fill	Permanent	0.462		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
4	Wetland	Fill	Temporary (450 days)	0.133	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Shallow Marsh	Stearns, #16, #7	Yes	No	No	No
30	Wetland	Fill	Permanent	0.088		Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
30	Wetland	Fill	Temporary (450 days)	0.024	Surface disturbance to accommodate temporary placement of surcharge soil above existing wetland soils and road embankment construction.	Shallow Marsh	Stearns, #16, #7	Yes	Yes	Yes	No
30.1T	Tributary	Fill	Permanent	239 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
30.1T	Tributary	Fill	Permanent	0.136		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
30.1T	Tributary	Fill	Temporary (450 days)	112 LF	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
30.1T	Tributary	Fill	Temporary (450 days)	0.040	Surface grading to accommodate temporary placement of surcharge soil above existing wetland soils and box culvert construction.	Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
<del>37</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.316</del>		<del>Shallow Marsh</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>Yes</del>	<del>No</del>
<del>31A</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.068</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
30.2T	Tributary	Fill	Permanent	161 LF		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
30.2T	Tributary	Fill	Permanent	0.315		Tributary	Stearns, #16, #7	Yes	Yes	No*	Yes
30.2T	Tributary	Cut	Temporary (80 days)	113 LF	Surface grading to accommodate box culvert construction.	Tributary	Stearns, #16, #7	Yes	No	No*	Yes

PART FOUR: Aquatic Resource Impact Summary

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30.2T	Tributary	Cut	Temporary (80 days)	0.123	Surface grading to accommodate box culvert construction.	Tributary	Stearns, #16, #7	Yes	No	No*	Yes
<del>3</del>	<del>Wetland</del>	<del>Fill</del>	<del>Permanent</del>	<del>0.036</del>		<del>Ditch-Fresh (Wet) Meadow</del>	<del>Stearns, #16, #7</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
2	Wetland	Fill	Permanent	0.565		Fresh (Wet) Meadow	Stearns, #16, #7	Yes	Yes	Yes	No
2	Wetland	Fill	Temporary (75 days)	0.041	Light surface disturbance for temporary construction access, vehicle movement, material laydown, and erosion control placement.	Fresh (Wet) Meadow	Stearns, #16, #7	Yes	No	No	No
			Total Wetland Impact	17.966 acres					13.147 Acres***	TBD*** Acres 0.815 Acres. Maybe**** 0.838 Acres Restoration†	

\*Stream mitigation will not occur through WCA process. Stream mitigation measures will be addressed through the DNR public waters work permit and Section 401 permit.

\*\*Previous impacts to Wetland 1 (Sauk River) were eliminated through a redesign to outfall to existing rip rap above the OHW of the Sauk River.

\*\*\*TEP meeting in August 2021 to determine WCA impacts.

\*\*\*\*Impacts marked "maybe" are cut impacts to Fresh (Wet) Meadow wetland. TEP input will determine if these cut impacts required WCA mitigation.

†Cut impacts to forested floodplain Wetland 28.3 are related to a stream and wetland restoration included in the project.

MATCHLINE STA. 402+00

MATCHLINE STA. 418+00



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Print Name: \_\_\_\_\_

Date: 7/13/2021 License # \_\_\_\_\_

DRAWN BY \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

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MINNESOTA STATE PROJECT NO. 7305-124 (T.H. 23) S.A.P. 073-643-007

MINNESOTA DEPARTMENT OF TRANSPORTATION  
WETLAND IMPACTS  
T.H. 23

SHEET 1 OF 20



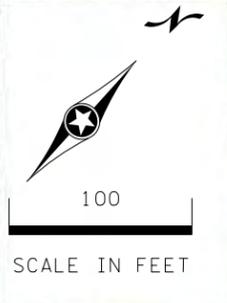


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LEGEND	
	Wetland Boundary
	Permanent Construction Limits
	Center Line
	Temporary Construction Limits
	ROW
	Permanent Impact Fill Impacts
	Permanent Impact Cut Impacts
	Temporary Impact Temporary Fill Impact
	Temporary Impact Temporary Cut Impact



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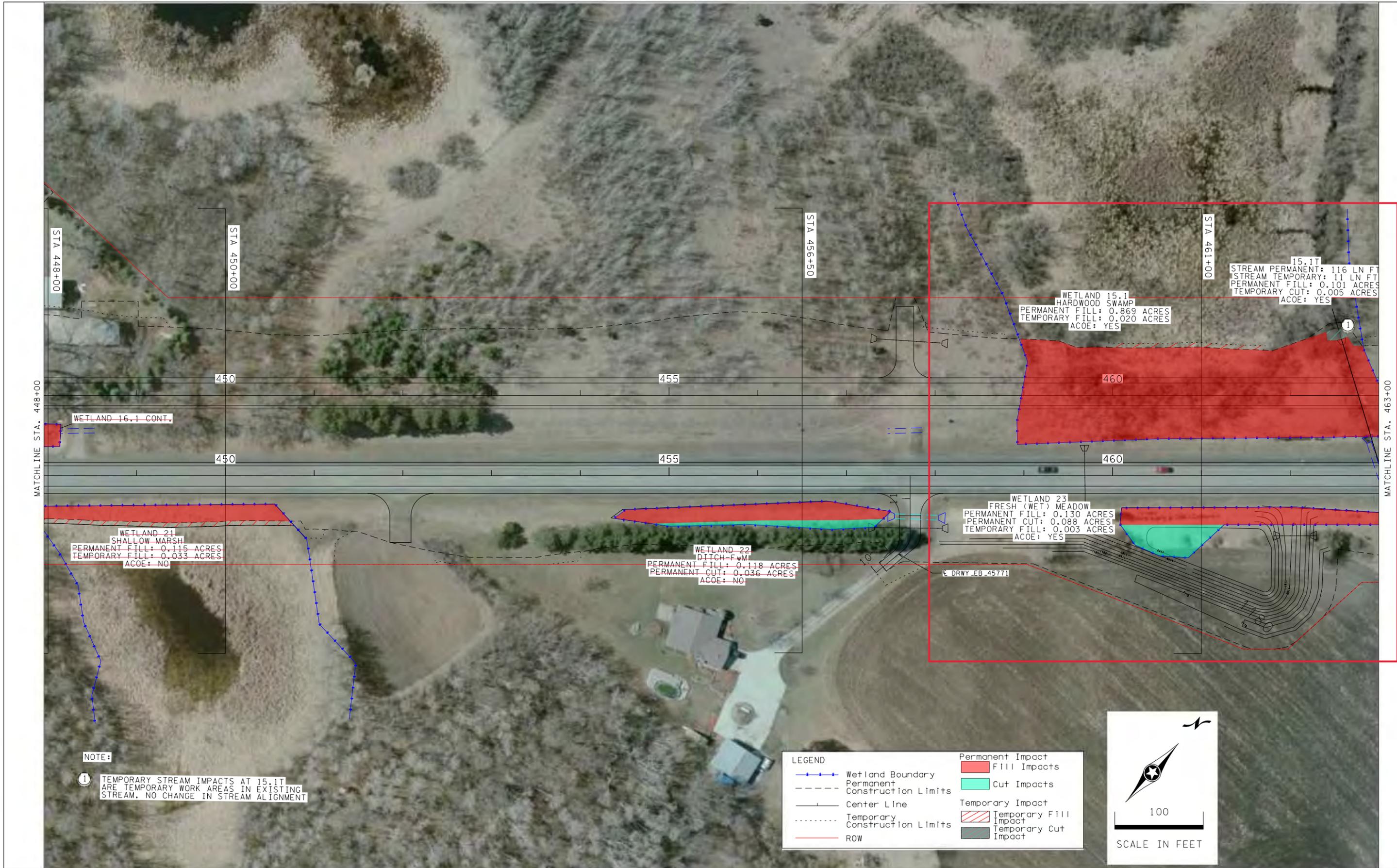
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 T.H. 23

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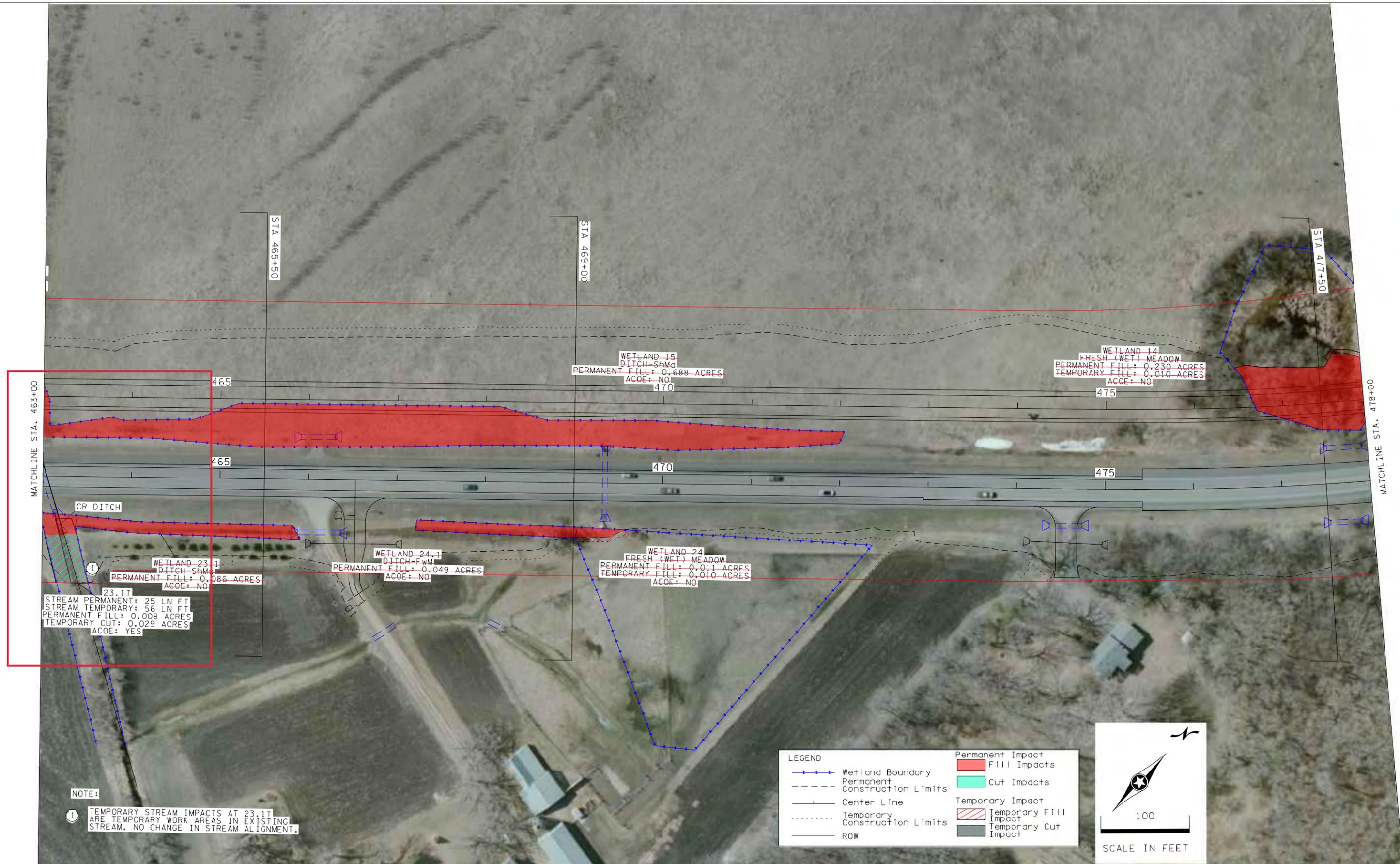
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WETLAND IMPACTS  
T.H. 23

SHEET 4 OF 20



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MATCHLINE STA. 478+00

STA 465+50

STA 469+00

STA 477+50

WETLAND 15  
DITCH-ShMo  
PERMANENT FILL: 0.688 ACRES  
ACOE: NO  
470

WETLAND 14  
FRESH (WET) MEADOW  
PERMANENT FILL: 0.230 ACRES  
TEMPORARY FILL: 0.010 ACRES  
ACOE: NO  
475

WETLAND 23.1  
DITCH-ShMo  
PERMANENT FILL: 0.086 ACRES  
ACOE: NO

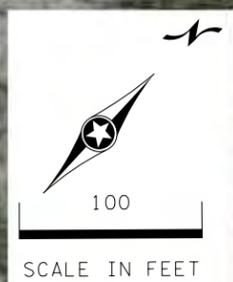
WETLAND 24.1  
DITCH-FwM  
PERMANENT FILL: 0.049 ACRES  
ACOE: NO

WETLAND 24  
FRESH (WET) MEADOW  
PERMANENT FILL: 0.011 ACRES  
TEMPORARY FILL: 0.010 ACRES  
ACOE: NO

23.1T  
STREAM PERMANENT: 25 LN FT  
STREAM TEMPORARY: 56 LN FT  
PERMANENT FILL: 0.008 ACRES  
TEMPORARY CUT: 0.029 ACRES  
ACOE: YES

**NOTE:**  
① TEMPORARY STREAM IMPACTS AT 23.1T ARE TEMPORARY WORK AREAS IN EXISTING STREAM. NO CHANGE IN STREAM ALIGNMENT.

LEGEND	
	Wetland Boundary
	Permanent Construction Limits
	Center Line
	Temporary Construction Limits
	ROW
	Permanent Impact Fill Impacts
	Cut Impacts
	Temporary Impact Temporary Fill Impact
	Temporary Cut Impact



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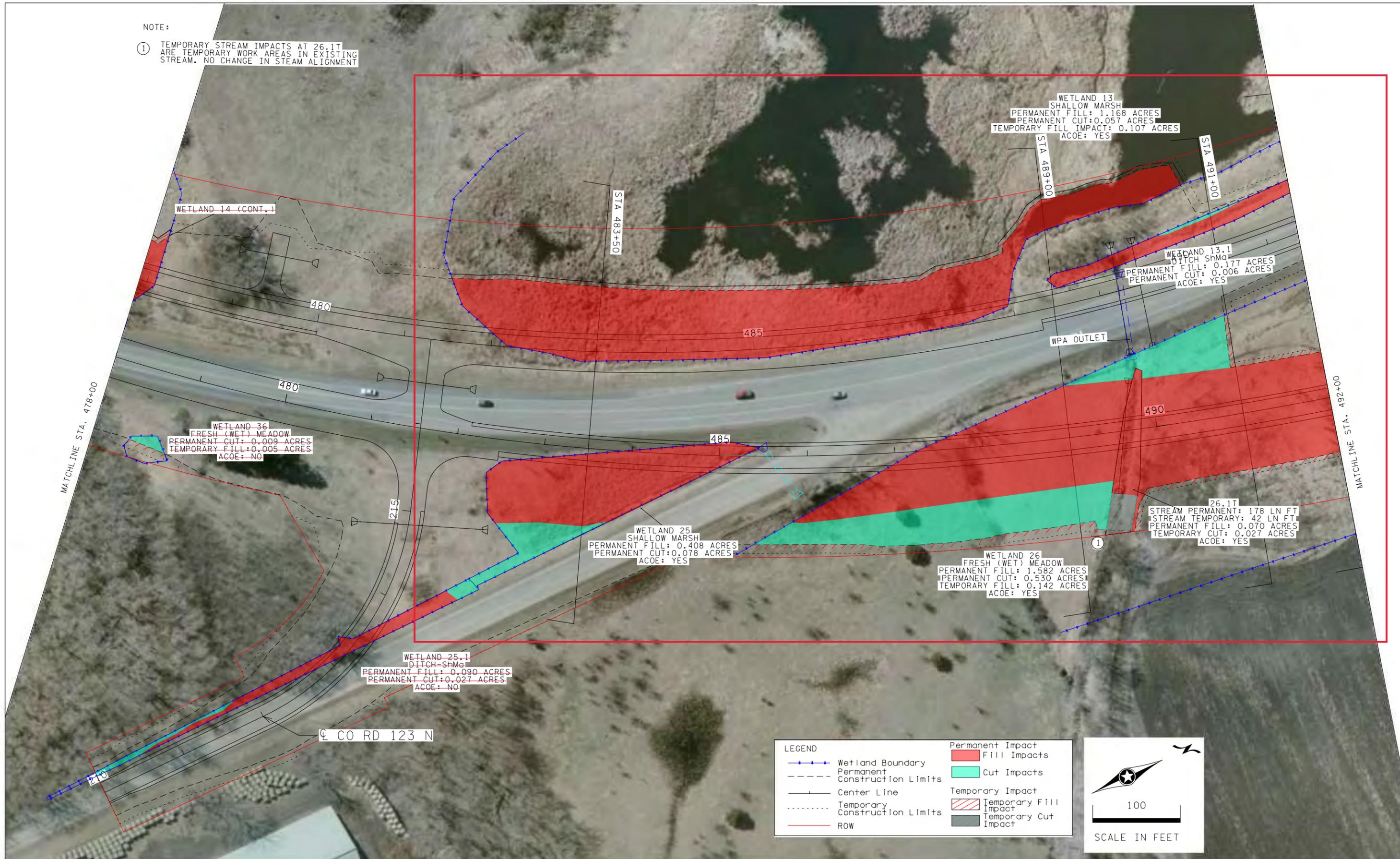
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WETLAND IMPACTS  
T.H. 23

SHEET 5 OF 20

NOTE:

① TEMPORARY STREAM IMPACTS AT 26.1T ARE TEMPORARY WORK AREAS IN EXISTING STREAM. NO CHANGE IN STREAM ALIGNMENT



WETLAND 14 (CONT.)

WETLAND 13  
SHALLOW MARSH  
PERMANENT FILL: 1.168 ACRES  
PERMANENT CUT: 0.057 ACRES  
TEMPORARY FILL IMPACT: 0.107 ACRES  
ACOE: YES

WETLAND 13.1  
DITCH SHMO  
PERMANENT FILL: 0.177 ACRES  
PERMANENT CUT: 0.006 ACRES  
ACOE: YES

WETLAND 36  
FRESH (WET) MEADOW  
PERMANENT CUT: 0.009 ACRES  
TEMPORARY FILL: 0.005 ACRES  
ACOE: NO

WETLAND 25  
SHALLOW MARSH  
PERMANENT FILL: 0.408 ACRES  
PERMANENT CUT: 0.078 ACRES  
ACOE: YES

WETLAND 26  
FRESH (WET) MEADOW  
PERMANENT FILL: 1.582 ACRES  
PERMANENT CUT: 0.530 ACRES  
TEMPORARY FILL: 0.142 ACRES  
ACOE: YES

26.1T  
STREAM PERMANENT: 178 LN FT  
STREAM TEMPORARY: 42 LN FT  
PERMANENT FILL: 0.070 ACRES  
TEMPORARY CUT: 0.027 ACRES  
ACOE: YES

WETLAND 25.1  
DITCH SHMO  
PERMANENT FILL: 0.090 ACRES  
PERMANENT CUT: 0.027 ACRES  
ACOE: NO

**LEGEND**

- Wetland Boundary
- Permanent Construction Limits
- Center Line
- Temporary Construction Limits
- ROW
- Permanent Impact Fill Impacts
- Permanent Impact Cut Impacts
- Temporary Impact Fill Impacts
- Temporary Impact Cut Impacts

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DESIGNED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

COURT INTERNATIONAL BUILDING  
2550 UNIVERSITY AVENUE W, SUITE 400N  
ST. PAUL, MINNESOTA 55114-1922  
P: 651.644.4389 F: 651.644.9446

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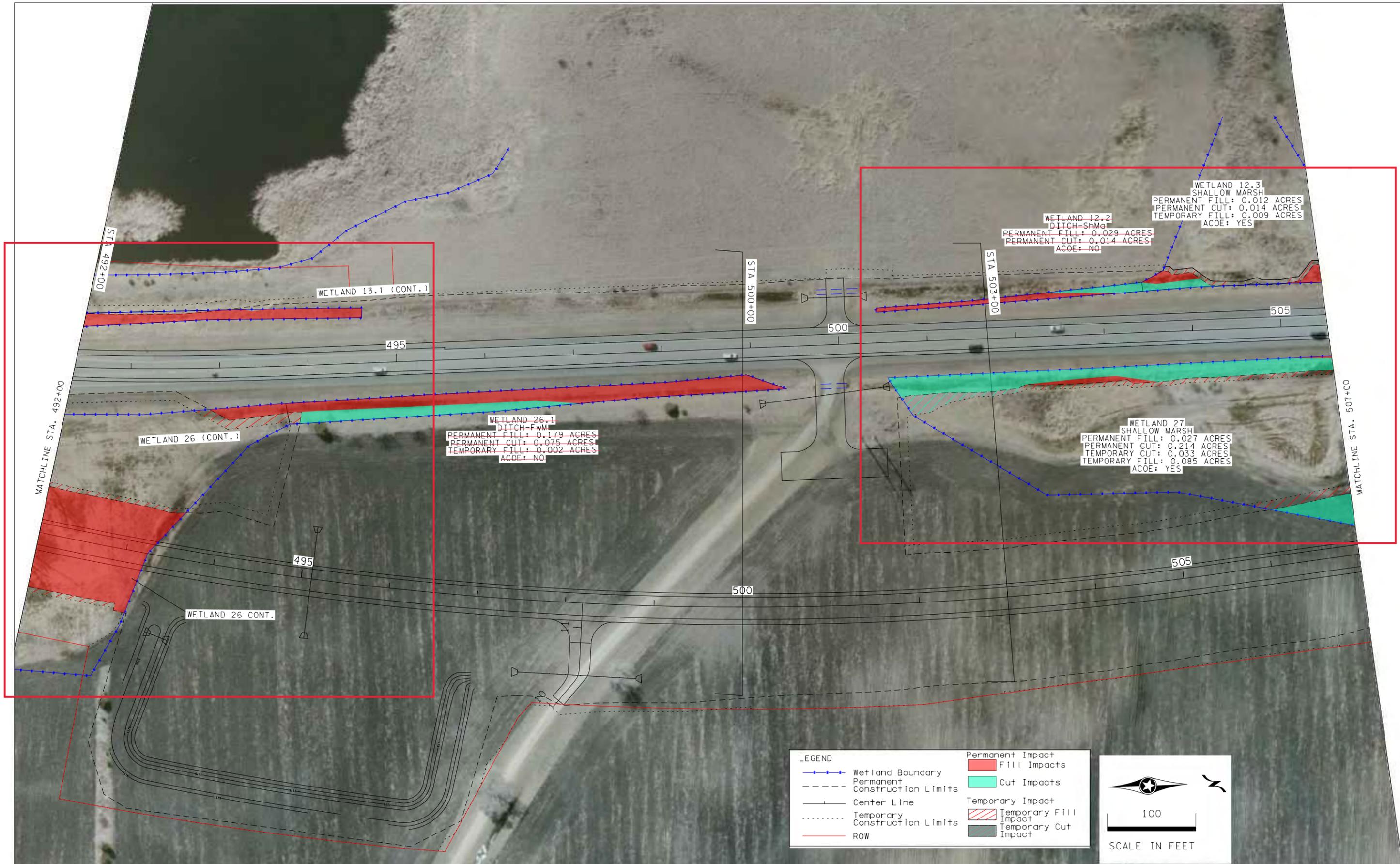
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WETLAND IMPACTS  
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WETLAND 26.1  
DITCH-FWM  
PERMANENT FILL: 0.179 ACRES  
PERMANENT CUT: 0.075 ACRES  
TEMPORARY FILL: 0.002 ACRES  
ACQE: NO

WETLAND 12.2  
DITCH-SMg  
PERMANENT FILL: 0.029 ACRES  
PERMANENT CUT: 0.014 ACRES  
ACQE: NO

WETLAND 12.3  
SHALLOW MARSH  
PERMANENT FILL: 0.012 ACRES  
PERMANENT CUT: 0.014 ACRES  
TEMPORARY FILL: 0.009 ACRES  
ACQE: YES

WETLAND 27  
SHALLOW MARSH  
PERMANENT FILL: 0.027 ACRES  
PERMANENT CUT: 0.214 ACRES  
TEMPORARY CUT: 0.033 ACRES  
TEMPORARY FILL: 0.085 ACRES  
ACQE: YES

**LEGEND**

- +—+— Wetland Boundary
- - - - - Permanent Construction Limits
- Center Line
- · - · - · - Temporary Construction Limits
- ROW
- Permanent Impact
- Permanent Fill Impacts
- Permanent Cut Impacts
- Temporary Impact
- Temporary Fill Impact
- Temporary Cut Impact

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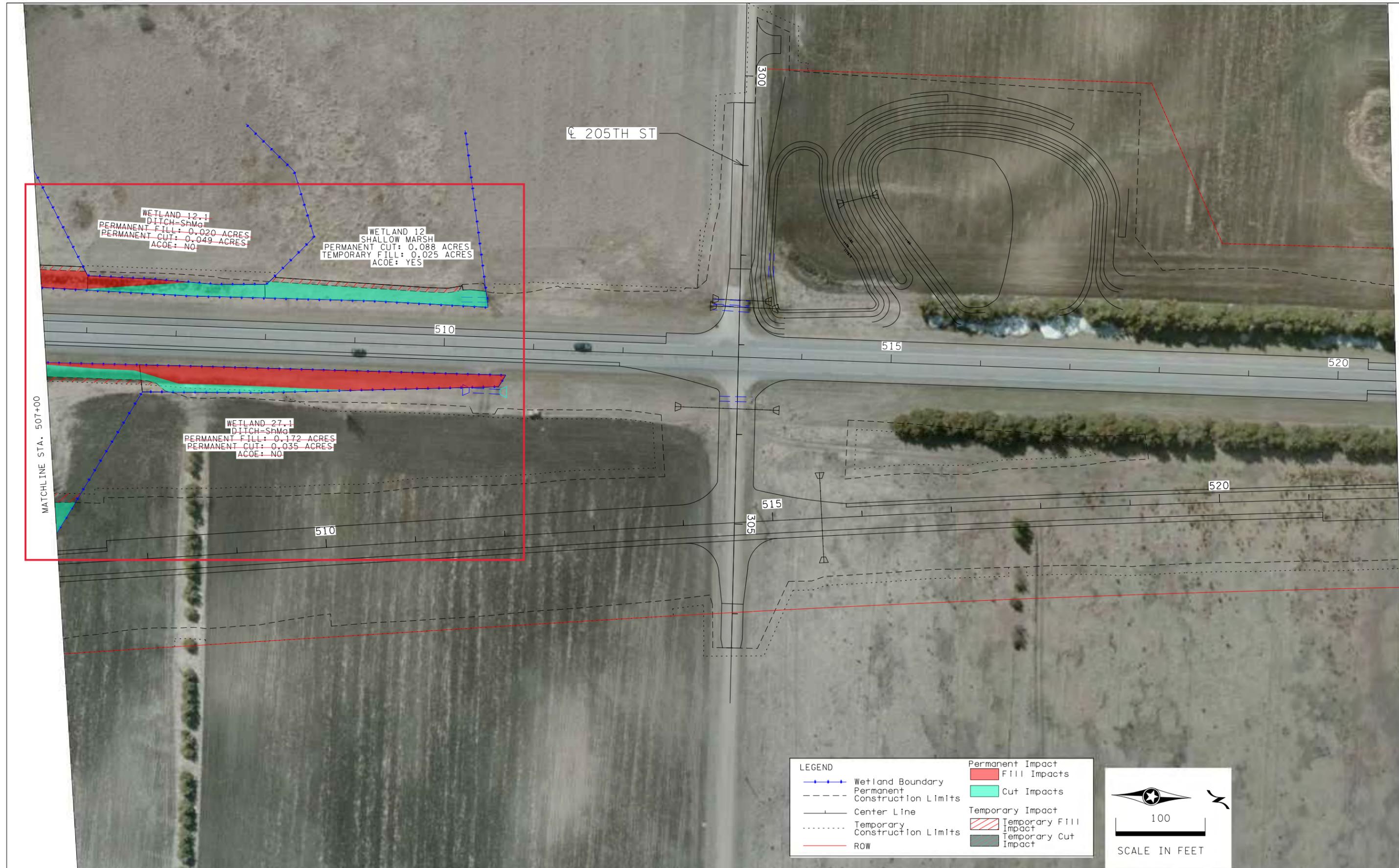
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7305-124  
(T.H. 23)  
S.A.P.  
073-643-007

MINNESOTA DEPARTMENT OF TRANSPORTATION  
WETLAND IMPACTS  
T.H. 23

SHEET 7 OF 20



MATCHLINE STA. 507+00

MATCHLINE STA. 522+00

CL 205TH ST

WETLAND 12.1  
DITCH-SPMG  
PERMANENT FILL: 0.020 ACRES  
PERMANENT CUT: 0.049 ACRES  
ACOE: NO

WETLAND 12  
SHALLOW MARSH  
PERMANENT CUT: 0.088 ACRES  
TEMPORARY FILL: 0.025 ACRES  
ACOE: YES

WETLAND 27.1  
DITCH-SPMG  
PERMANENT FILL: 0.172 ACRES  
PERMANENT CUT: 0.035 ACRES  
ACOE: NO

**LEGEND**

- +—+—+— Wetland Boundary
- Permanent Construction Limits
- Center Line
- Temporary Construction Limits
- ROW
- Permanent Impact Fill Impacts
- Permanent Impact Cut Impacts
- Temporary Impact Temporary Cut Impact
- Temporary Impact Temporary Fill Impact

SCALE IN FEET

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WETLAND IMPACTS  
T.H. 23

SHEET 9 OF 20



MATCHLINE STA. 580+00

MATCHLINE STA. 595+00

LEGEND	
	Wetland Boundary
	Permanent Construction Limits
	Center Line
	Temporary Construction Limits
	ROW
	Permanent Impact Fill Impacts
	Cut Impacts
	Temporary Impact Temporary Fill Impact
	Temporary Cut Impact



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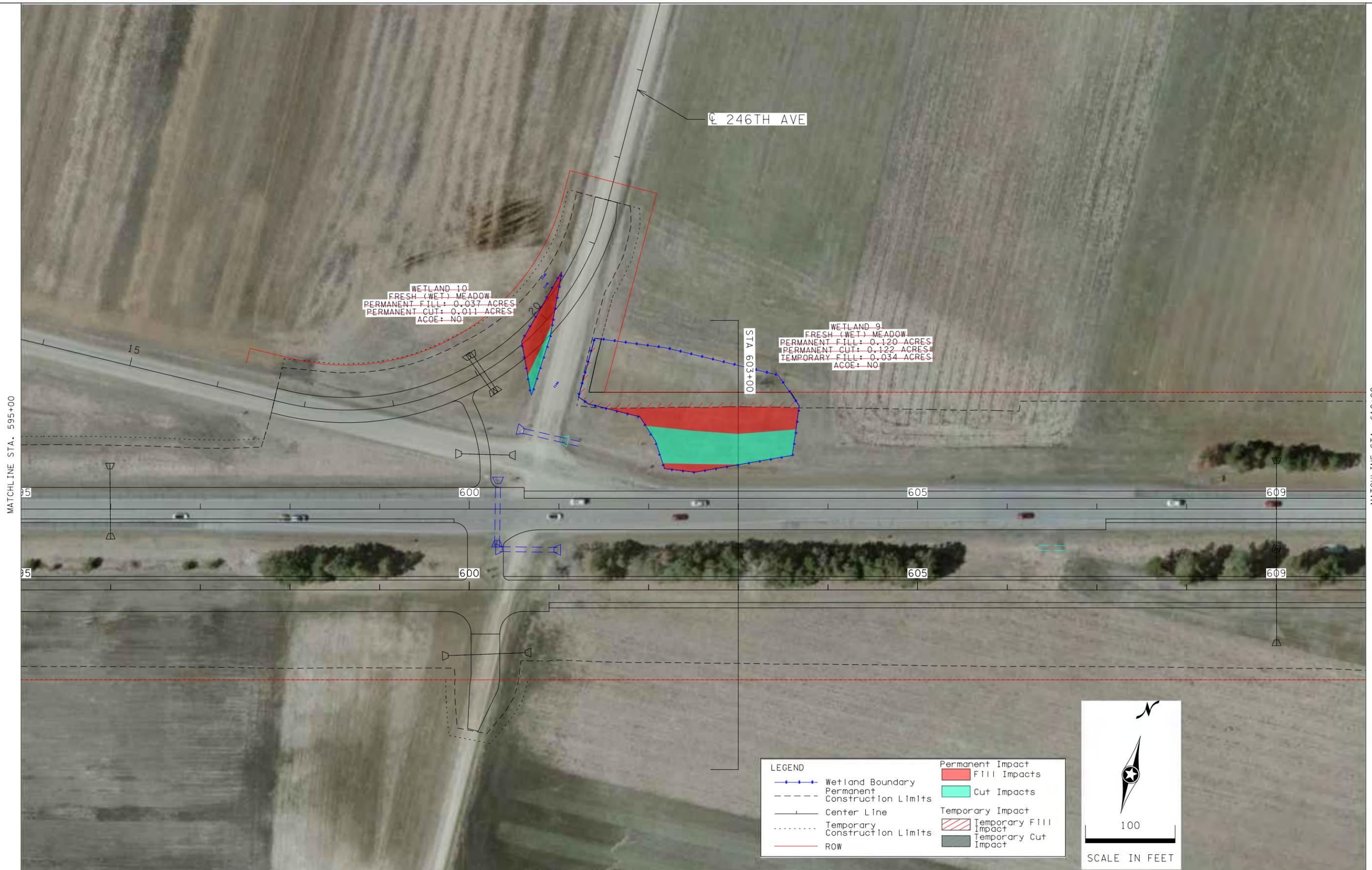
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WETLAND 10  
 FRESH (WET) MEADOW  
 PERMANENT FILL: 0.037 ACRES  
 PERMANENT CUT: 0.011 ACRES  
 ACOE: NO

WETLAND 9  
 FRESH (WET) MEADOW  
 PERMANENT FILL: 0.120 ACRES  
 PERMANENT CUT: 0.122 ACRES  
 TEMPORARY FILL: 0.034 ACRES  
 ACOE: NO

LEGEND	
—+—+—+—	Wetland Boundary
---	Permanent Construction Limits
---	Center Line
.....	Temporary Construction Limits
---	ROW
█ (Red)	Permanent Impact Fill Impacts
█ (Green)	Cut Impacts
█ (Hatched)	Temporary Impact Temporary Fill Impact
█ (Grey)	Temporary Cut Impact



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 WETLAND IMPACTS  
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**NOTE:**

- ① PERMANENT STREAM IMPACTS TO 8.1T FROM SURCHARGE AREA IMPACTS. POST- CONSTRUCTION, 60 LN FT/0.052 ACRES OF STREAM TO REMAIN OPEN WITHIN SURCHARGE IMPACT AREA.
- ② PERMANENT STREAM IMPACTS TO 28.2T FROM FILL OF EXISTING CHANNEL. TEMPORARY IMPACTS FROM STREAM IMPROVEMENTS IN EXISTING CHANNEL.
- ③ 28.2T STREAM REMEANDER AT NEW CULVERT LOCATION INCLUDES 515 FEET OF NEW CHANNEL. 0.177 ACRES OF STREAM AREA.
- ④ EXCAVATED SOILS RESULTING FROM TEMPORARY STREAM DIVERSION CONSTRUCTION WILL BE REMOVED FROM WETLAND AREAS. CONTRACTOR WILL KEEP WETLAND AREAS FREE OF TEMPORARY SOIL STOCKPILES. AFTER PERMANENT CHANNELS ARE RESTORED, THE TEMPORARY STREAM DIVERSION CHANNELS WILL BE FILLED TO PRE-CONSTRUCTION CONTOURS.



①  
8.1T  
STREAM PERMANENT: 370 LN FT  
PERMANENT FILL: 0.195 ACRES  
ACOE: YES

④  
WETLAND 8  
FRESH (WET) MEADOW  
PERMANENT FILL: 0.275 ACRES  
PERMANENT CUT: 0.023 ACRES  
TEMPORARY CUT: 0.130 ACRES  
TEMPORARY FILL: 0.117 ACRES  
ACOE: YES

③  
WETLAND 28.3  
FLOODPLAIN FOREST  
PERMANENT FILL: 0.459 ACRES  
PERMANENT CUT: 0.838 ACRES  
ACOE: YES

②  
28.2T  
STREAM PERMANENT: 108 LN FT  
PERMANENT FILL: 0.040 ACRES  
STREAM TEMPORARY: 186 LN FT  
TEMPORARY FILL: 0.118 ACRES  
ACOE: YES

LEGEND	
	Wetland Boundary
	Permanent Construction Limits
	Center Line
	Temporary Construction Limits
	ROW
	Permanent Impact Fill Impacts
	Permanent Impact Cut Impacts
	Temporary Impact Temporary Fill Impact
	Temporary Impact Temporary Cut Impact



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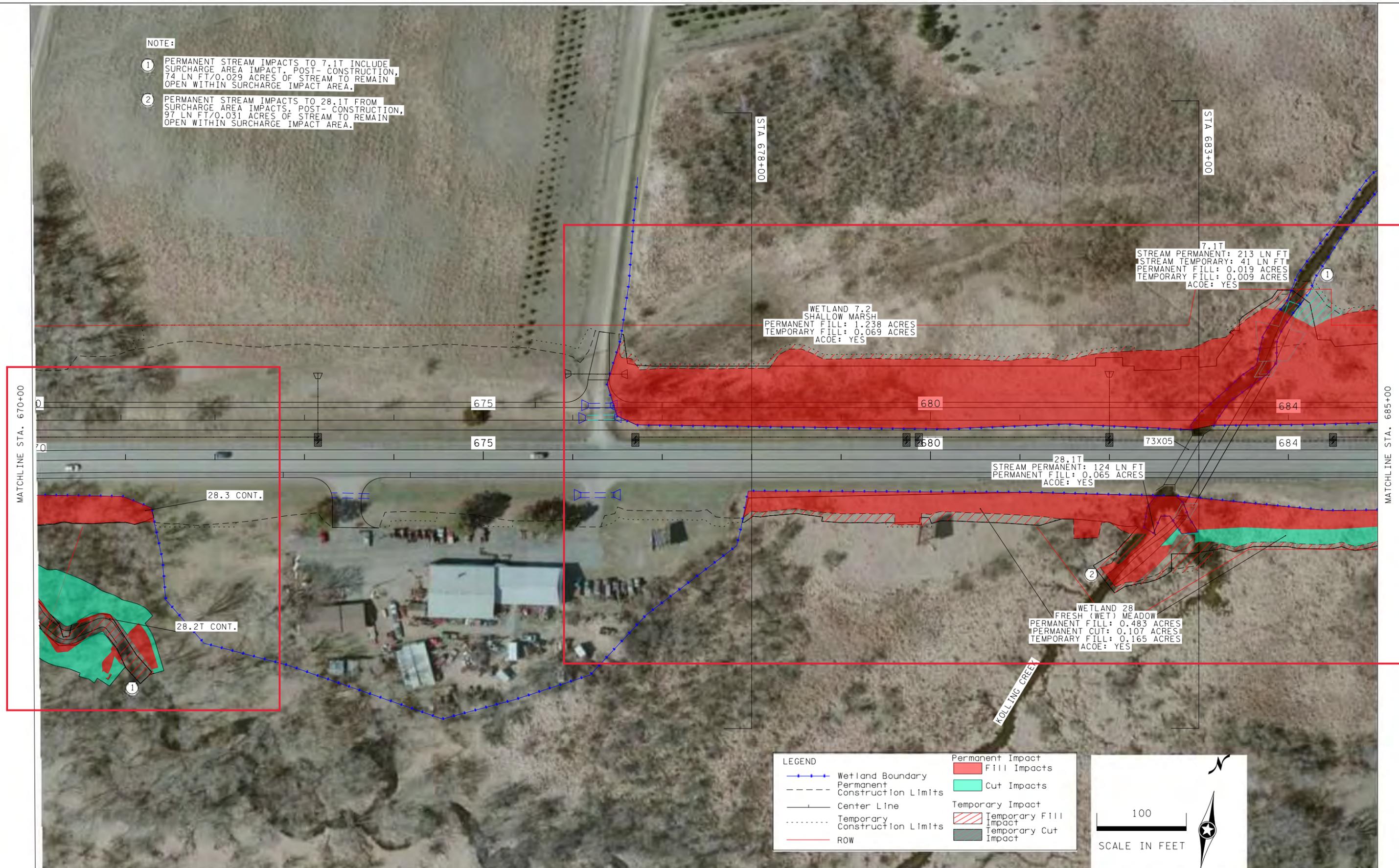
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WETLAND IMPACTS  
T.H. 23

SHEET 12 OF 20

**NOTE:**

- ① PERMANENT STREAM IMPACTS TO 7.1T INCLUDE SURCHARGE AREA IMPACT. POST- CONSTRUCTION, 74 LN FT/0.029 ACRES OF STREAM TO REMAIN OPEN WITHIN SURCHARGE IMPACT AREA.
- ② PERMANENT STREAM IMPACTS TO 28.1T FROM SURCHARGE AREA IMPACTS. POST- CONSTRUCTION, 97 LN FT/0.031 ACRES OF STREAM TO REMAIN OPEN WITHIN SURCHARGE IMPACT AREA.



MATCHLINE STA. 670+00

MATCHLINE STA. 685+00

**LEGEND**

- +—+—+—+—+—+—+ Wetland Boundary
- Permanent Construction Limits
- Center Line
- - - - - Temporary Construction Limits
- ROW
- Permanent Impact
- Fill Impacts
- Cut Impacts
- Temporary Impact
- Temporary Fill Impact
- Temporary Cut Impact

100  
SCALE IN FEET

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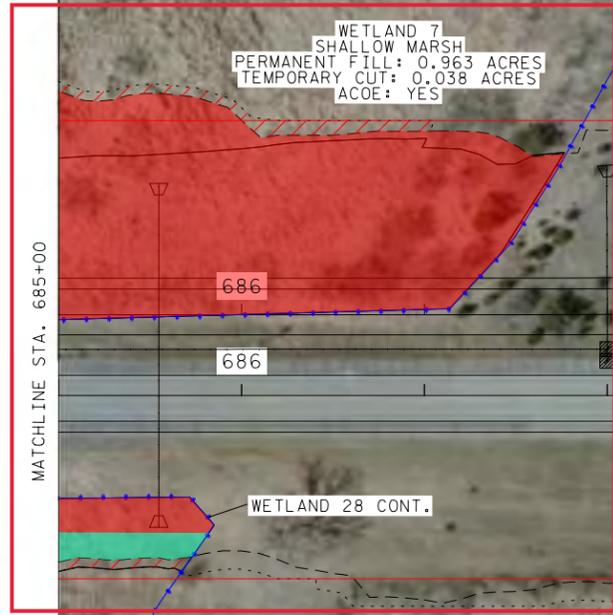
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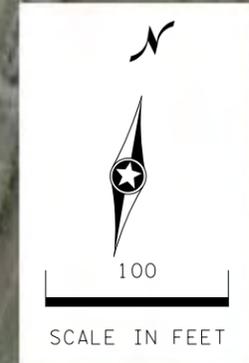
SHEET 13 OF 20



MATCHLINE STA. 685+00

MATCHLINE STA. 700+00

LEGEND	
	Wetland Boundary
	Permanent Construction Limits
	Center Line
	Temporary Construction Limits
	ROW
	Permanent Impact Fill Impacts
	Cut Impacts
	Temporary Impact Temporary Fill Impact
	Temporary Cut Impact



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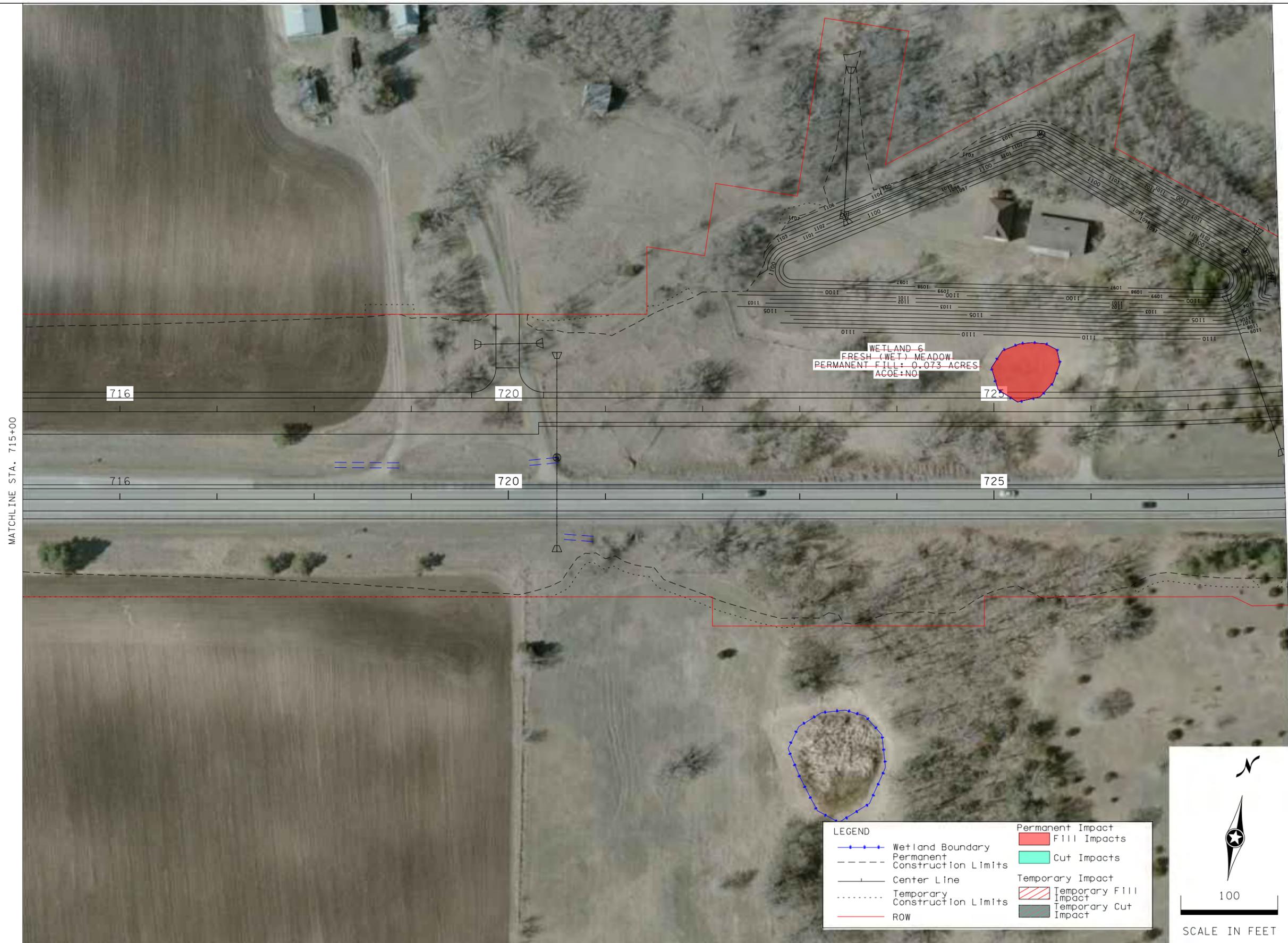
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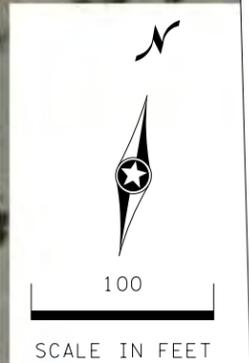
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T.H. 23

SHEET 14 OF 20



WETLAND 6  
 FRESH (WET) MEADOW  
 PERMANENT FILL: 0.073 ACRES  
 ACDE: NO

LEGEND	
—●—●—●—	Wetland Boundary
---	Permanent Construction Limits
—	Center Line
.....	Temporary Construction Limits
---	ROW
■ (Red)	Permanent Impact Fill Impacts
■ (Green)	Cut Impacts
■ (Hatched)	Temporary Impact Temporary Fill Impact
■ (Grey)	Temporary Cut Impact



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 T.H. 23

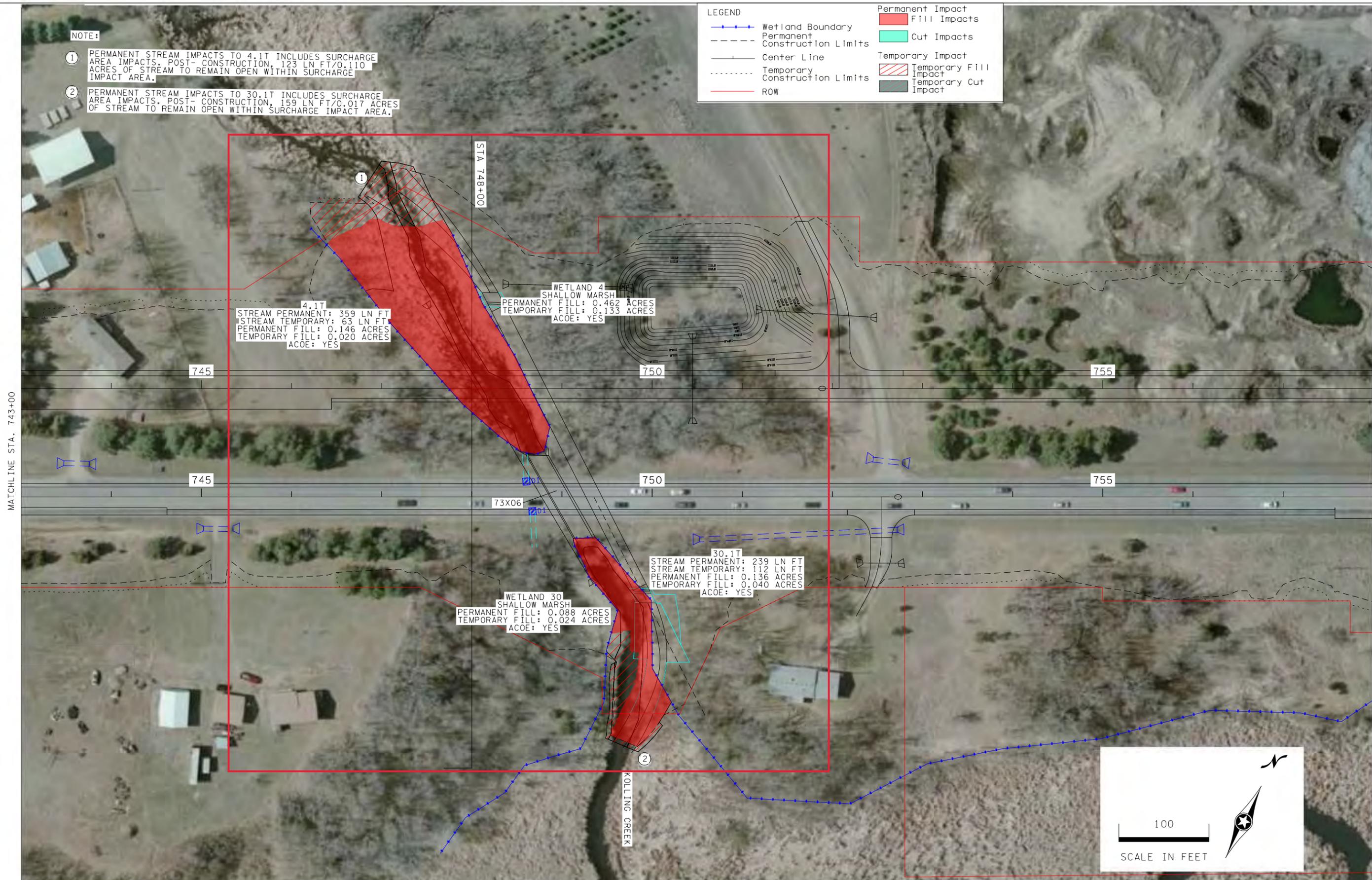
SHEET 15 OF 20

**NOTE:**

- ① PERMANENT STREAM IMPACTS TO 4.1T INCLUDES SURCHARGE AREA IMPACTS. POST- CONSTRUCTION, 123 LN FT/0.110 ACRES OF STREAM TO REMAIN OPEN WITHIN SURCHARGE IMPACT AREA.
- ② PERMANENT STREAM IMPACTS TO 30.1T INCLUDES SURCHARGE AREA IMPACTS. POST- CONSTRUCTION, 159 LN FT/0.017 ACRES OF STREAM TO REMAIN OPEN WITHIN SURCHARGE IMPACT AREA.

**LEGEND**

- +—+—+— Wetland Boundary
- - - - - Permanent Construction Limits
- Center Line
- - - - - Temporary Construction Limits
- ROW
- Permanent Impact
- Fill Impacts
- Cut Impacts
- Temporary Impact
- Temporary Fill Impact
- Temporary Cut Impact



4.1T  
 STREAM PERMANENT: 359 LN FT  
 STREAM TEMPORARY: 63 LN FT  
 PERMANENT FILL: 0.146 ACRES  
 TEMPORARY FILL: 0.020 ACRES  
 ACOE: YES

WETLAND 4  
 SHALLOW MARSH  
 PERMANENT FILL: 0.462 ACRES  
 TEMPORARY FILL: 0.133 ACRES  
 ACOE: YES

30.1T  
 STREAM PERMANENT: 239 LN FT  
 STREAM TEMPORARY: 112 LN FT  
 PERMANENT FILL: 0.136 ACRES  
 TEMPORARY FILL: 0.040 ACRES  
 ACOE: YES

WETLAND 30  
 SHALLOW MARSH  
 PERMANENT FILL: 0.088 ACRES  
 TEMPORARY FILL: 0.024 ACRES  
 ACOE: YES

100  
 SCALE IN FEET

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SHEET 16  
 OF 20



MATCHLINE STA. 758+00

MATCHLINE STA. 773+00

LEGEND	
	Wetland Boundary
	Permanent Construction Limits
	Center Line
	Temporary Construction Limits
	ROW
	Permanent Impact Fill Impacts
	Cut Impacts
	Temporary Impact Temporary Fill Impact
	Temporary Cut Impact



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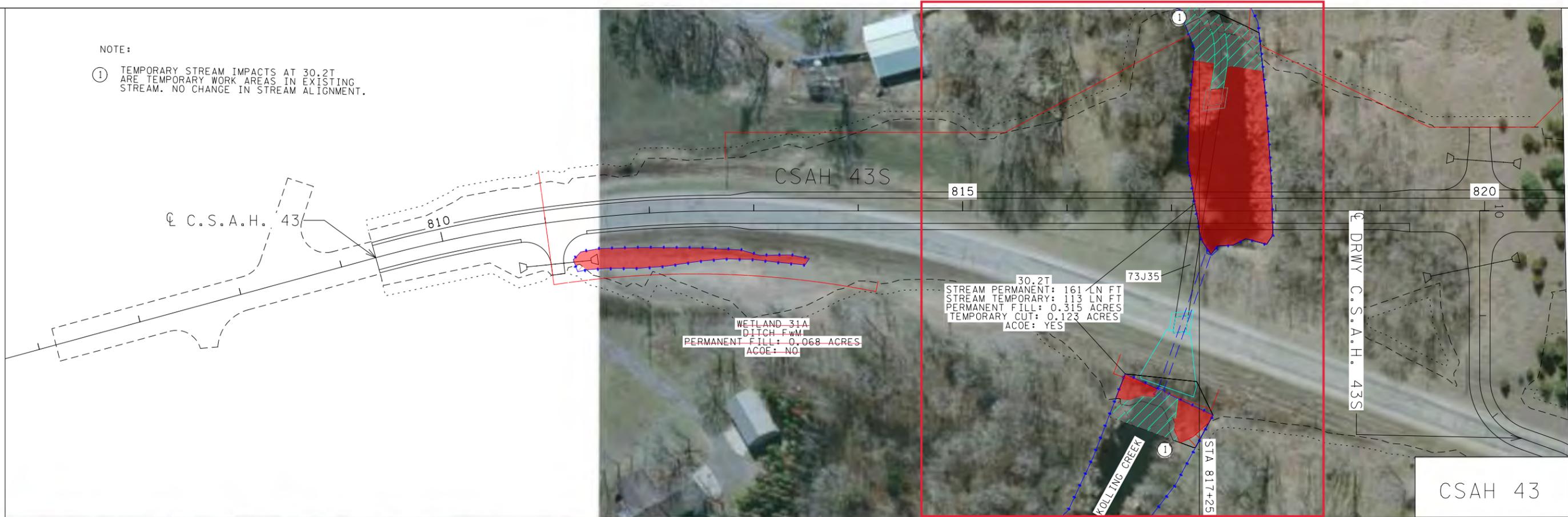
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T.H. 23

SHEET 17 OF 20

NOTE:

① TEMPORARY STREAM IMPACTS AT 30.2T ARE TEMPORARY WORK AREAS IN EXISTING STREAM. NO CHANGE IN STREAM ALIGNMENT.



**LEGEND**

- +—+— Wetland Boundary
- Permanent Construction Limits
- Center Line
- Temporary Construction Limits
- ROW
- Permanent Impact Fill Impacts
- Permanent Impact Cut Impacts
- Temporary Impact
- Temporary Impact Fill Impact
- Temporary Impact Cut Impact

100  
SCALE IN FEET

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WETLAND IMPACTS  
T.H. 23

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**LEGEND**

- Wetland Boundary
- Permanent Construction Limits
- Center Line
- Temporary Construction Limits
- ROW

**Permanent Impact**

- Fill Impacts
- Cut Impacts

**Temporary Impact**

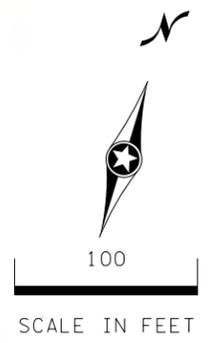
- Temporary Fill Impact
- Temporary Cut Impact



WETLAND 2  
FRESH (WET) MEADOW  
PERMANENT FILL: 0.565 ACRES  
TEMPORARY FILL: 0.041 ACRES  
ACOE: YES

WETLAND 3  
DITCH-FW  
PERMANENT FILL: 0.036 ACRES  
ACOE: NO

BECKER LAKE



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CHECKED BY \_\_\_\_\_



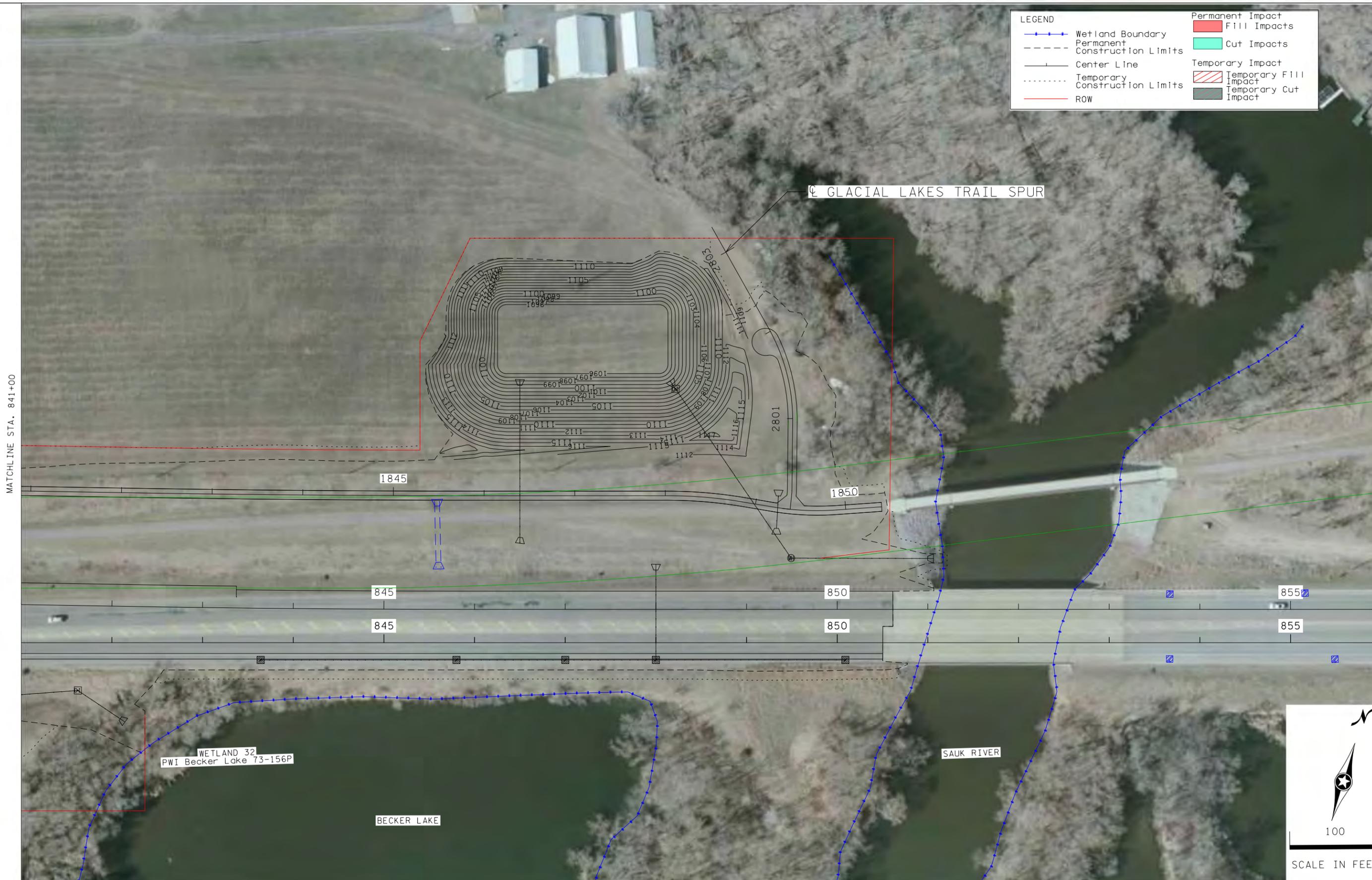
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**LEGEND**

- Wetland Boundary
- Permanent Construction Limits
- Center Line
- Temporary Construction Limits
- ROW
- Permanent Fill Impacts
- Cut Impacts
- Temporary Impact
- Temporary Fill Impact
- Temporary Cut Impact



MATCHLINE STA. 841+00

WETLAND 32  
PWI Becker Lake 73-156P

SAUK RIVER

BECKER LAKE



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OF 20