



US Army Corps  
of Engineers  
St Paul District

# Public Notice

**APPLICANT:** American Transmission  
Company, LLC

**ISSUED:** March 8, 2016  
**EXPIRES:** April 8, 2016

**REFER TO:** MVP-2016-00234-EMN    **SECTION:** 404 - Clean Water Act

1. APPLICATION FOR PERMIT TO permanently discharge fill material into 0.12-acre of wetlands for the replacement of 79 transmission line structures, the permanent clearing and conversion of 21.81 acres of hardwood/coniferous swamp and 16.86 acres of shrub-carr wetland to fresh (wet) meadow to accommodate a 60-foot offset from the existing utility right-of-way (ROW), and the temporary placement of construction mats in 25.81 acres of wetland adjacent to various waterways as part of a transmission line rebuild project within a 27.7-mile long section of the M13 corridor.

## 2. SPECIFIC INFORMATION.

**APPLICANT'S ADDRESS:** American Transmission Company, LLC  
P.O. Box 6113  
De Pere, Wisconsin 54115

**AGENT'S ADDRESS:** Stantec Consulting Services, Inc.  
209 Commerce Parkway  
P.O. Box 128  
Cottage Grove, Wisconsin 53527

**PROJECT LOCATION:** The project corridor is located in Sections 3, 9, 10, 16, and 21, T. 28N., R. 8E., Sections 3, 10, 15, 22, 27, and 34, T. 29N., R. 8E., Sections 12-14, 22, 23, 27, and 34, T. 30N., R. 8E., Section 6, T. 30N., R. 9E., Marathon County; Sections 23, 24, 26, 34, and 35, T. 31N., R. 8E., Lincoln County; Sections 19-24, T. 31N., R. 9E. and Section 19, T. 31N., R. 10E., Langlade County, Wisconsin. The approximate UTM coordinates are 45.03728 / -89.41844. Overview maps showing the project location have been included in the attachments.

**DESCRIPTION OF PROJECT:** The project consists of rebuilding and uprating a combined total of 27.7 miles of 115 kV transmission line, removing two substations (Bunker Hill and Blackbrook Substations), and constructing one new substation (Ackley Substation). In addition, off-ROW access would be needed to access portions of the project corridor.

The 8.2-mile segment of transmission line between the Bunker Hill and Blackbrook Substations would be rebuilt and both substations would be removed. The applicant would build a new substation (Ackley Substation) between the two in an upland pine plantation. This work would require the new transmission lines to be offset 60 feet from the existing centerline within the utility corridor. This 60-foot offset would result in the permanent conversion of 21.81 acres of hardwood/coniferous swamp and 16.86 acres of shrub-carr wetland to fresh (wet) meadow within the new utility ROW. This work would require the temporary placement of construction mats in wetlands and the construction of ice

## **Operations - Regulatory (MVP-2016-00234-EMN)**

roads to facilitate access to the transmission line. In addition, 63 transmission line structures would be replaced within wetlands along this segment of the project.

The 19.5-mile segment of transmission line between the Bunker Hill and Kelly Substations would be uprated to 115 kV along the entire project corridor. This work would require the temporary placement of construction mats in wetlands and the construction of ice roads within the existing ROW to facilitate access to the transmission line. In addition, 16 transmission line structures would be replaced within wetlands along this segment of the project corridor.

**EXISTING CONDITIONS:** The entire utility ROW has been cleared of woody vegetation and has been maintained this way since the utility corridor was first constructed. The surrounding area adjacent to the utility ROW is comprised of hardwood/coniferous swamp, scrub-carr wetlands, bogs, fresh (wet) meadow, sedge meadow, upland forest, open agricultural land, and a small urbanized area within the Village of Weston.

**SURROUNDING LAND USE:** The surrounding land use within the project corridor is comprised of County Forest Land, undeveloped recreational land, agricultural operations, and a small urbanized area in the Village of Weston.

**QUANTITY, TYPE, AND AREA OF FILL:** The proposed work would include the permanent discharge of fill material into 0.12-acre of wetlands during the replacement of 79 transmission line structures (assuming a 7-foot to 11-foot diameter area for each structure), the permanent conversion of 21.81 acres of hardwood/coniferous swamp and 16.86 acres shrub-carr wetland to fresh (wet) meadow within the 60-foot wide ROW offset, and the temporary placement of construction mats in 25.81 acres of wetlands to facilitate construction access and work pads within the project corridor.

**VEGETATION IN AFFECTED AREA:** The wetlands within the utility ROW have been disturbed in the past by utility maintenance activities (initial construction, replacement of poles, clearing of woody vegetation within the ROW, and placement of timber mats). However, the majority of the wetlands within and adjacent to the project corridor are dominated by native hydrophytes (wetland species) except in the farmed wetland areas (dominated by reed canary grass and other non-natives). The hardwood/coniferous swamp that would be cleared for the 60-foot offset is dominated by young aspen trees and small stands of tamarack, red maple, and black spruce. The shrub-carr wetland is dominated by speckled alder, sandbar willow, pussy willow, tamarack, and young aspen trees. The upland area where the Ackley Substation would be constructed is a 4-acre parcel dominated by balsam fir and other coniferous species (Christmas tree plantation).

**SOURCE OF FILL MATERIAL:** All fill material for the project would be obtained from a licensed commercial facility and/or adjacent upland borrow sites. Construction mats would be acquired by the contractor(s) and utilized within the project corridor.

**THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT:** The applicant has stated that construction mats and ice roads would be utilized to facilitate construction equipment access and work pads within the utility corridor. In addition, all tree clearing would be conducted in the winter months over the timeframe needed to construct the project.

## Operations - Regulatory (MVP-2016-00234-EMN)

The applicant would also use clear span bridges to cross twelve waterways within the project corridor and no work and/or fill would be placed below the ordinary high water mark of these streams. This would minimize the amount of sediment movement/disturbance and avoid impacts to streams within the project corridor.

MITIGATION: The applicant has proposed to mitigate for all unavoidable adverse wetland impacts within the project corridor. The applicant would debit credits from the Wisconsin In-Lieu Fee Program to compensate for the permanent impacts to 0.12-acre of fresh (wet meadow), the permanent conversion of 21.81 acres of hardwood/coniferous swamp and 16.86 acres of scrub-carr wetland, and potentially the temporary impacts from the placement of construction matting in sensitive wetland areas within the project corridor.

### 3. REPLIES/COMMENTS.

Interested parties are invited to submit to this office written facts, arguments, or objections within 30 days of the date of this notice. 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 addressed to Regulatory Branch, St. Paul District, Corps of Engineers, 1314 Contractors Boulevard, Plover, Wisconsin 54467.

Or, IF YOU HAVE QUESTIONS ABOUT THE PROJECT, call Eric Norton at the Stevens Point field office of the Corps, telephone number (651) 290-5879.

To receive Public Notices by e-mail, go to: [http://mvp-extstp.mvp.usace.army.mil/list\\_server/](http://mvp-extstp.mvp.usace.army.mil/list_server/) and add your information in the New Registration Box.

### 4. 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, Marathon, Lincoln, and Langlade County are within the known or historic range of the following Federally-listed threatened (T) and endangered (E) species:

#### Species

Whooping Crane, *Grus americana* (P)

#### Habitat

This is a non-essential experimental population that prefers open wetland and lakeshores. The species is only considered a proposed species since it is outside of the National Wildlife Refuge System and the National Park System.

Northern long-eared bat, *Myotis septentrionalis* (E)

Hibernates in caves and mines – swarming in surrounding wooded areas in autumn. During summer, roosts and forages in upland forests.

## Operations - Regulatory (MVP-2016-00234-EMN)

Gray wolf, *Canis lupus* (E)

Northern forested areas

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.

### 5. JURISDICTION.

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

We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are subject to Corps of Engineers jurisdiction under Section 404 of the Clean Water Act. If an approved jurisdictional determination is completed as part of the review process for this application, a copy will be posted on the St. Paul District web page at the following link: <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

### 6. WATER QUALITY CERTIFICATION.

This Public Notice has been sent to the Wisconsin Department of Natural Resources and is considered by the District Engineer to constitute valid notification to that agency for Section 401 water quality certification. A permit will not be granted until the Wisconsin Department of Natural Resources has issued or waived Section 401 certification.

### 7. 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.

### 8. 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.

### 9. 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

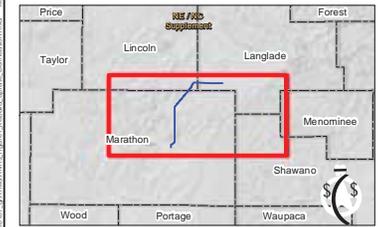
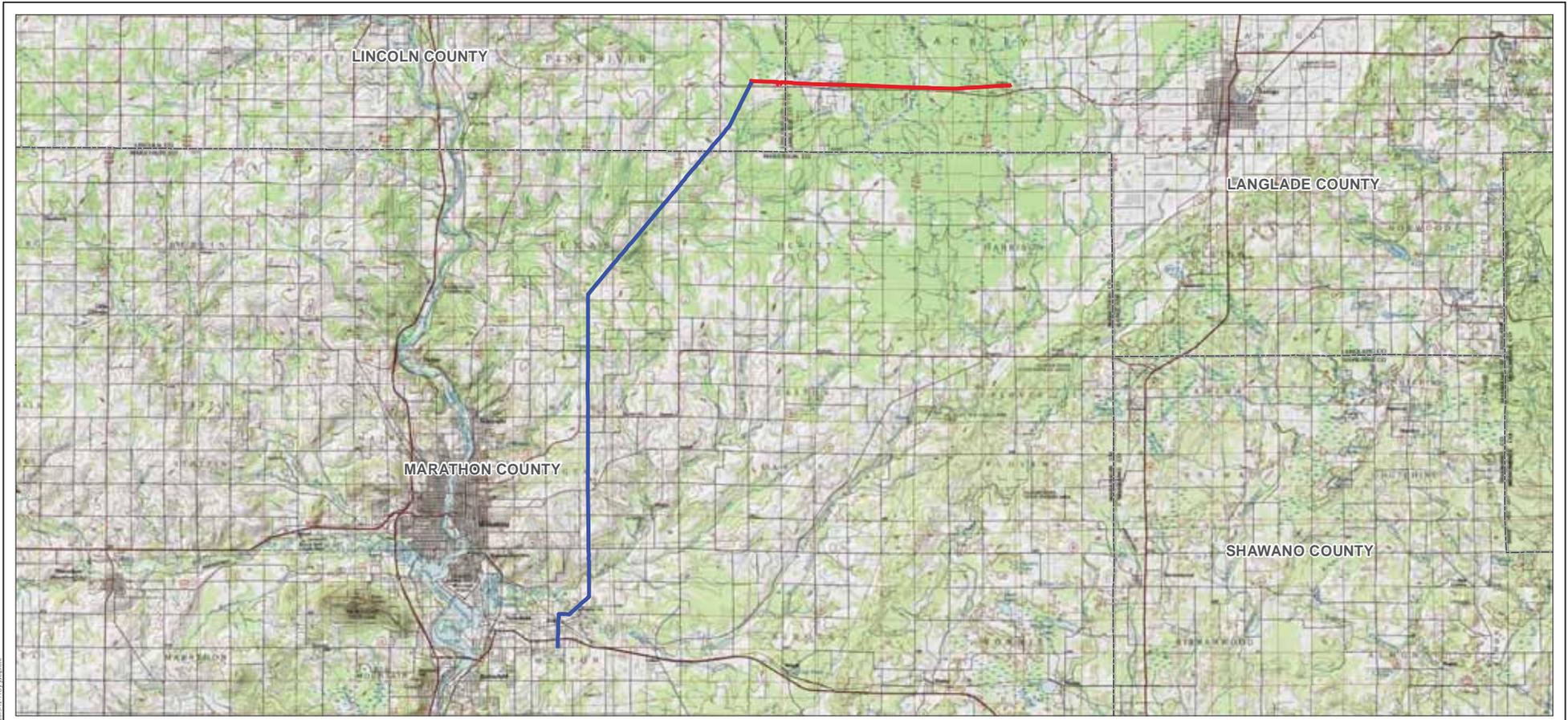
## **Operations - Regulatory (MVP-2016-00234-EMN)**

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.

Marie H. Kopka  
Chief, Northeast Section (Acting)

Enclosures: Project drawings, maps, and figures. Additional information available upon request.



**Legend**  
 — Proposed Rebuild Centerline  
 — Proposed Uprate Centerline

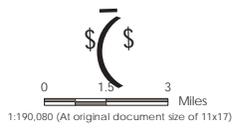
- Notes**
1. Coordinate System: NAD 1983 UTM Zone 16N
  2. Data Sources Include: Stantec, ATC
  3. Background: USGS 30' x 60' Topographic Map

Figure No. **1**  
 Title: **Project Location and Topography**

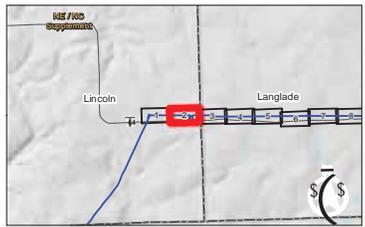
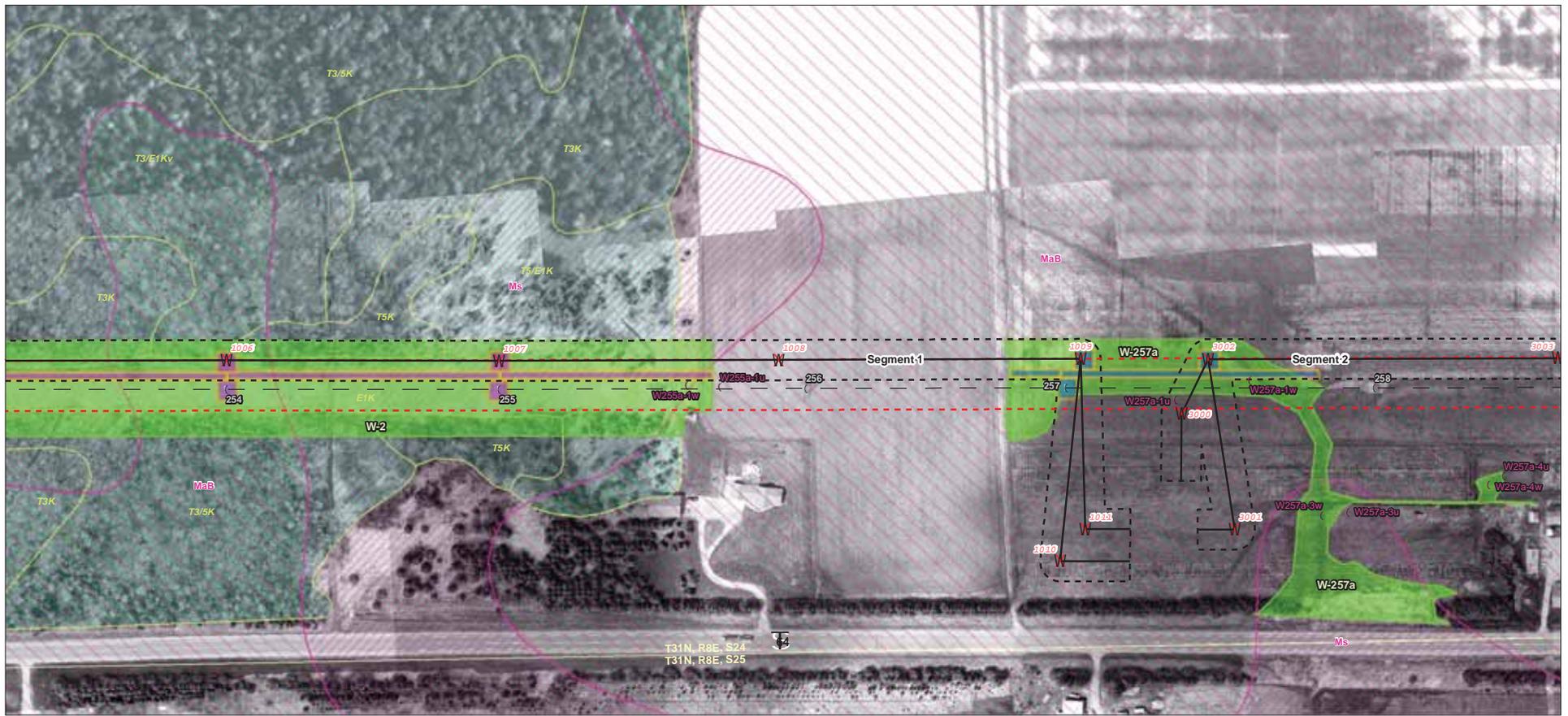
Client/Project  
 Kelly-Bunker Hill-Blackbrook  
 (Line M13 Reinforcement Project)  
 Rebuild and Uprate Projects

Project Location  
 Marathon, Lincoln and Langlade  
 Cos., Wisconsin

193703176  
 Prepared by JD on 2015-12-09  
 Technical Review by MP on 2015-12-10  
 Independent Review by MC on 2015-12-11







- Legend**
- ( Existing Structure
  - W Proposed Structure
  - Existing Transmission Lines
  - Proposed Centerline
  - - - Existing Transmission ROW
  - - - Proposed ROW
  - ▨ Laydown Yards
  - ( Sample Point
  - ~ Field Delineated Waterway
  - Field Delineated Wetland
- Work Pad
  - Ice Road
  - Timber Mats
  - Access
  - Ice Road
  - Timber Mats
- Wisconsin Wetland Inventory
  - NRCS Soil Survey Data
  - Hydric Ratings
  - Predominantly Hydric Soils
  - Partially Hydric Soils
  - Non-Hydric Soils
  - DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

**Notes**

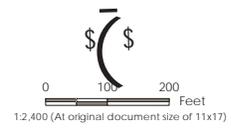
1. Coordinate System: NAD 1983 StatePlane Wisconsin Central FIPS 4802 Feet
2. Data Sources include: Stantec, ATC, WDOT, WDNR, NRCS
3. Orthophotography: 2014 Pictometry, 2013 NAIP

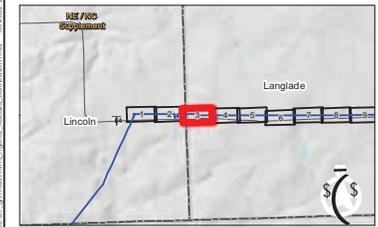
Figure No. **2a**  
 Title  
**Environmental Features**

Client/Project  
 Kelly-Bunker Hill-Blackbrook  
 (Line M13 Reinforcement Project)  
 Rebuild Wetland Delineation

Project Location  
 Lincoln & Langlade Cos., Wisconsin

193703176  
 Prepared by JD on 2015-12-09  
 Technical Review by MP on 2015-12-10  
 Independent Review by MC on 2015-12-11





**Legend**

( ) Existing Structure	Work Pad	Wisconsin Wetland Inventory
W Proposed Structure	Ice Road	NRCS Soil Survey Data
— Existing Transmission Lines	Timber Mats	Hydric Ratings
— Proposed Centerline	Access	Predominantly Hydric Soils
- - - Existing Transmission ROW	Ice Road	Partially Hydric Soils
- - - Proposed ROW	Timber Mats	Non-Hydric Soils
▨ Laydown Yards		DNR 24k Hydrography
( ) Sample Point		Perennial Stream
~ Field Delineated Waterway		Intermittent Stream
■ Field Delineated Wetland		Waterbody

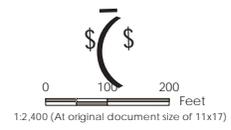
- Notes**
1. Coordinate System: NAD 1983 StatePlane Wisconsin Central FIPS 4802 Feet
  2. Data Sources include: Stantec, AIC, WDOT, WDNR, NRCS
  3. Orthophotography: 2014 Pictometry, 2013 NAIP

Figure No. **2a**  
 Title: **Environmental Features**

Client/Project:  
 Kelly-Bunker Hill-Blackbrook  
 (Line M13 Reinforcement Project)  
 Rebuild Wetland Delineation

Project Location: Lincoln & Langlade Cos., Wisconsin

193703176  
 Prepared by JD on 2015-12-09  
 Technical Review by MP on 2015-12-10  
 Independent Review by MC on 2015-12-11



Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.



# Table 8 - WDNR Wetland/Waterway Impact Location Table

Supplement Document to WDNR Form 3500-53.

## KELLY-BUNKER HILL-BLACKBROOK (LINE M13 REINFORCEMENT PROJECT)\*

RESOURCE			ACTIVITY				LOCATION						RESOURCE IMPACT						WDNR DOCKET#	
Waterway/Wetland Name <sup>1</sup>	Application Unique ID <sup>2</sup>	WQC <sup>4</sup>	Bridge	Dredging Plow / Trench	Misc. Structure	Grading	County	Town, Village, City	QQ	Q	Section	Township, Range (E/W)	Wetland Impact Temporary <sup>5</sup>		Wetland Impact Permanent <sup>6</sup>		ASNRI			
													Area (sq. ft.)	Area (acres)	Area (sq. ft.)	Area (acres)	O/E	Trout	Other	
<b>BUNKER HILL-BLACKBROOK REBUILD ROW WETLANDS</b>																				
Wetland W-2	W-2	X(9)					Lincoln	Town of Pine River	SE	SE	23	T31N, R8E	87,940	2,019	771	0.018				
									SW	SW	24	T31N, R8E								
									SE	SE	24	T31N, R8E								
									SW	SW	24	T31N, R8E								
Wetland W-257a	W-257a	X(2)					Lincoln	Town of Pine River	SE	SE	24	T31N, R8E	13,556	0.311	192	0.004				
Wetland W-259a	W-259a						Lincoln	Town of Pine River	SE	SE	24	T31N, R8E	174	0.004	0					
Wetland W-259a	W-259a						Langlade	Town of Ackley	SE	SE	19	T31N, R9E	6,138	0.141	0					
									SW	SW	19	T31N, R9E								
Wetland W-261a	W-261a	X(1)					Langlade	Town of Ackley	SW	SW	19	T31N, R9E	18,638	0.428	39	0.001				
									SE	SE	19	T31N, R9E								
Wetland W-263a	W-263a	X(3)					Langlade	Town of Ackley	SW	SW	19	T31N, R9E	41,368	0.950	118	0.003				
									SE	SE	19	T31N, R9E								
Wetland W-263b	W-263b						Langlade	Town of Ackley	SE	SE	19	T31N, R9E	194	0.004	0	0.000				
Wetland W-267b	W-267b						Langlade	Town of Ackley	SE	SE	19	T31N, R9E	305	0.007	0	0.000				
									SE	SE	19	T31N, R9E								
									SW	SW	20	T31N, R9E								
									SE	SE	20	T31N, R9E								
									SW	SW	20	T31N, R9E								
									SE	SE	20	T31N, R9E								
									SW	SW	21	T31N, R9E								
									SE	SE	21	T31N, R9E								
									SW	SW	21	T31N, R9E								
									SE	SE	21	T31N, R9E								
									SW	SW	22	T31N, R9E								
									SE	SE	22	T31N, R9E								
									SW	SW	22	T31N, R9E								
									SE	SE	22	T31N, R9E								
									SE	SE	22	T31N, R9E								
Wetland W-267a	W-267a	X(24)					Langlade	Town of Ackley	SE	SE	19	T31N, R9E	356,446	8.183	941	0.022				X
									SW	SW	20	T31N, R9E								
									SE	SE	20	T31N, R9E								
									SW	SW	20	T31N, R9E								
									SE	SE	20	T31N, R9E								
									SW	SW	21	T31N, R9E								
									SE	SE	21	T31N, R9E								
									SW	SW	21	T31N, R9E								
									SE	SE	21	T31N, R9E								
									SW	SW	22	T31N, R9E								
									SE	SE	22	T31N, R9E								
									SW	SW	22	T31N, R9E								
									SE	SE	22	T31N, R9E								
									SE	SE	22	T31N, R9E								
Wetland W-295a	W-295a	X(19)					Langlade	Town of Ackley	SW	SW	23	T31N, R9E	266,299	6.113	841	0.019				
									SE	SE	23	T31N, R9E								
									SW	SW	23	T31N, R9E								
									SE	SE	23	T31N, R9E								
									SW	SW	23	T31N, R9E								
									SE	SE	23	T31N, R9E								
									SW	SW	24	T31N, R9E								
									SE	SE	24	T31N, R9E								
									SW	SW	24	T31N, R9E								
									SE	SE	24	T31N, R9E								
									SW	SW	24	T31N, R9E								
									SE	SE	24	T31N, R9E								
									SW	SW	19	T31N, R10E								
									SE	SE	19	T31N, R10E								
Wetland W-316a	W-316a	X(3)					Langlade	Town of Ackley	SE	SW	19	T31N, R10E	35,900	0.824	444	0.010				
									SW	SE	19	T31N, R10E								
Wetland BB-W1	BB-W1	X(2)					Langlade	Town of Ackley	SW	SE	19	T31N, R10E	10,557	0.242	479	0.011				
<b>BUNKER HILL-BLACKBROOK REBUILD OFF ROW ACCESS WETLANDS</b>																				
Wetland W-2	W-2						Lincoln	Town of Pine River	SW	SW	24	T31N, R8E	7,660	0.176						
									SE	SE	23	T31N, R8E								
Wetland W-267a	W-267a						Langlade	Town of Ackley	SW	SW	22	T31N, R9E	18,518	0.425						
									SE	SE	22	T31N, R9E								
									SW	SW	20	T31N, R9E								
									SE	SE	21	T31N, R9E								
Wetland W-295a	W-295a						Langlade	Town of Ackley	NE	NW	25	T31N, R9E	9,651	0.222						
									SW	SW	24	T31N, R9E								
									SE	SE	24	T31N, R9E								
									SE	SE	23	T31N, R9E								
Wetland W-316a	W-316a						Langlade	Town of Ackley	SW	SE	19	T31N, R10E	1,492	0.034						
<b>KELLY-BUNKER HILL UPRATE ROW WETLANDS</b>																				
Wetland W-241	W-241	X(2)					Lincoln	Town of Pine River	SE	SW	26	T31N, R8E	30,083	0.691	157	0.004				
									NW	SE	26	T31N, R8E								
									SW	SE	26	T31N, R8E								
									NE	NW	35	T31N, R8E								

RESOURCE			ACTIVITY				LOCATION						RESOURCE IMPACT						WDR DOCKET <sup>3</sup>	
Waterway/Wetland Name <sup>1</sup>	Application Unique ID <sup>2</sup>	WQC <sup>4</sup>	Bridge	Dredging Plow / Trench	Misc. Structure	Grading	County	Town, Village, City	QQ	Q	Section	Township, Range (E/W)	Wetland Impact Temporary <sup>5</sup>		Wetland Impact Permanent <sup>6</sup>		ASNRI			
													Area (sq. ft.)	Area (acres)	Area (sq. ft.)	Area (acres)	O/E	Trout	Other	
Wetland W-205	W-205						Marathon	Town of Texas	NE	SW	12	T30N, R8E	2,595	0.060	0	0				
Wetland W-195	W-195	X(1)					Marathon	Town of Texas	SE	NE	14	T30N, R8E	19,662	0.451	78	0.002				X
Wetland W-193a	W-193a	X(1)					Marathon	Town of Texas	NW	SE	14	T30N, R8E	7,493	0.172	78	0.002				
Wetland W-191b	W-191b						Marathon	Town of Texas	NW	SE	14	T30N, R8E	9,903	0.227	0	0				
Wetland W-191a	W-191a						Marathon	Town of Texas	SE	SW	14	T30N, R8E	3,778	0.087	0	0				
Wetland W-190a	W-190a	X(1)					Marathon	Town of Texas	SE	SW	14	T30N, R8E	2,054	0.047	78	0.002				
Wetland W-175	W-175						Marathon	Town of Texas	NW	NE	27	T30N, R8E	7,927	0.182	0	0				
Wetland W-157	W-157	X(1)					Marathon	Town of Texas	NE	SW	34	T30N, R8E	18,455	0.424	78	0.002				
Wetland W-147	W-147	X(1)					Marathon	Town of Wausau	NE	SW	3	T29N, R8E	20,038	0.460	78	0.002				
Wetland W-143	W-143	X(1)					Marathon	Town of Wausau	NE	NW	10	T29N, R8E	7,110	0.163	78	0.002				X
Wetland W-137	W-137	X(1)					Marathon	Town of Wausau	SE	NW	10	T29N, R8E	690	0.016	78	0.002				
Wetland W-130	W-130	X(2)					Marathon	Town of Wausau	NE	SW	15	T29N, R8E	24,696	0.567	157	0.004				
Wetland W-122	W-122	X(2)					Marathon	Town of Wausau	SE	NW	22	T29N, R8E	32,794	0.753	157	0.004				
Wetland W-108a	W-108a	X(2)					Marathon	Town of Wausau	NE	NW	34	T29N, R8E	13,690	0.314	157	0.004				
Wetland W-76a	W-76a						Marathon	Town of Weston	SE	SW	9	T28N, R8E	1,458	0.033	0	0				X
Wetland W-76b	W-76b	X(1)					Marathon	Town of Weston	NE	NW	16	T28N, R8E	5,204	0.119	78	0.002				X
<b>KELLY-BUNKER HILL UPRATE OFF ROW ACCESS WETLANDS</b>																				
Wetland W-243b	W-243b						Lincoln	Town of Pine River	NE	SE	26	T31N, R8E	4,195	0.096						
Wetland W-243	W-243						Lincoln	Town of Pine River	NE	SE	26	T31N, R8E	7,014	0.161						
Wetland W-236b	W-236b						Lincoln	Town of Pine River	NW	SW	26	T31N, R8E	1,937	0.044						
Wetland W-236	W-236						Lincoln	Town of Pine River	NE	NW	35	T31N, R8E	8,267	0.190						
Wetland W-176	W-176						Marathon	Town of Texas	NW	NE	27	T30N, R8E	13,392	0.307						
Wetland W-130	W-130						Marathon	Town of Wausau	SE	SW	15	T29N, R8E	5,773	0.133						
Wetland W-122	W-122						Marathon	Town of Wausau	SE	SW	22	T29N, R8E	1,252	0.029						
<b>BUNKER HILL-BLACKBROOK REBUILD ROW WATERWAYS</b>																				
UNT to Little Oxbo Creek	R262		X				Langlade	Town of Ackley	SE	SW	19	T31N, R9E								
UNT to Little Oxbo Creek	R264-A		X				Langlade	Town of Ackley	SW	SE	19	T31N, R9E								
Little Oxbo Creek	R264-B						Langlade	Town of Ackley	SW	SE	19	T31N, R9E								
UNT to Skunk Creek	R269-A		X				Langlade	Town of Ackley	SW	SW	20	T31N, R9E								
Skunk Creek	R270-A		X				Langlade	Town of Ackley	SW	SW	20	T31N, R9E								
Skunk Creek	R270-B						Langlade	Town of Ackley	SW	SW	20	T31N, R9E								
UNT to Trappe River	R280a		X				Langlade	Town of Ackley	SE	SW	20	T31N, R9E								
UNT to Trappe River	R282a		X				Langlade	Town of Ackley	SE	SW	20	T31N, R9E								
Trappe River	R293a		X				Langlade	Town of Ackley	SE	SE	22	T31N, R9E								X
UNT to Trappe River	R298a		X				Langlade	Town of Ackley	SE	SW	23	T31N, R9E								
<b>KELLY-BUNKER HILL UPRATE ROW WATERWAYS</b>																				
UNT to Trappe River	R175		X				Marathon	Town of Texas	NE	NW	27	T30N, R8E								
UNT to Eau Claire River	R78-S1						Marathon	Town of Weston	NW	NE	27	T30N, R8E								X
<b>KELLY-BUNKER HILL UPRATE OFF ROW WATERWAYS</b>																				
UNT to Prospect Creek	R243		X				Lincoln	Town of Pine River	NE	SE	26	T31N, R8E								
UNT to Prospect Creek	R236		X				Lincoln	Town of Pine River	NE	NW	35	T31N, R8E								
UNT to Big Sandy Creek	R104-A		X				Marathon	Town of Wausau	SW	NW	34	T29N, R8E								
<b>TOTAL</b>	---	<b>80</b>	<b>12</b>	---	---	---	---	---	---	---	---	---	<b>1,124,296</b>	<b>25.810</b>	<b>5,079</b>	<b>0.117</b>	---	---	---	---

**Notes:**

\* Kelly to Bunker Hill Uprate wetland/waterway impacts are included in Table 8

<sup>1</sup> Waterway name obtained from WDR Hydrologic GIS data. If unnamed, waterway deemed a tributary to first named stream in watershed. Wetland names are unique to the structure location within the existing ROW.

<sup>2</sup> Feature ID: W=Wetland; R=Waterway; OW=Open Water.

<sup>3</sup> Assigned by the WDR (e.g. IP-NO-2012-4-N0527)

<sup>4</sup> Parenthetic value refers to the preliminary number of permanent structures to be placed in wetlands

<sup>5</sup> Temporary impacts calculated using width of 16 feet for access road within wetland and a 1,600 ft<sup>2</sup> working pad at each structure (40' x 40').

<sup>6</sup> Permanent impacts calculated vary by structure type and are based on 7 or 11-foot-diameter area of impact per pole. For each wetland, the area of fill was determined from the number of structures within the wetland and the pole or foundation diameter. These dimensions include an additional 6 feet beyond the borehole diameter for backfill/structural support around the hole.