

## Information for File # (2011-03454-JRS)

**Applicant:** City of Oshkosh, Wisconsin  
**Corps Contact:** Ann Nye  
**Address:** 211 North Broadway, Suite 221, Green Bay, Wisconsin 54303  
**E-Mail:** ann.m.nye@usace.army.mil  
**Phone:** (920) 448-2824  
**Primary County:** Winnebago  
**Section:** 27  
**Township:** 18 North  
**Range:** 16 East

**Information Complete On:** January 22, 2013

**Posting Expires On:** March 1, 2013

**Authorization Type:** LOP-06-WI

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 identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified below. An approved jurisdictional determination may be made prior to reaching a permit decision. If an approved jurisdictional determination is made, it will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

### Project

**PROJECT DESCRIPTION AND PURPOSE:** The applicant proposes to construct a wet detention basin, inlet storm sewer, and outlet storm sewer to provide flood relief and stormwater pollution control in the City of Oshkosh. The proposed detention basin would be constructed with a permanent pool area of approximately 8.2 acres and a total footprint of 16 acres. The detention basin would include a safety shelf surrounding the perimeter of the permanent pool and a fore-bay at the inlet. The inlet structure would

maintain base and low flows in the existing Campbell Creek stream channel while diverting higher flows into the proposed detention basin. In addition, approximately 1,650 feet of existing storm sewer upstream of the junction structure would be replaced as part of the project to provide increased flow capacity and to reduce stormwater flooding. The outlet structure from the proposed detention basin would discharge stormwater runoff at a slower rate to reduce downstream flooding. An emergency spillway would be incorporated into the structure to safely carry storms exceeding the 100-year storm event. The detention basin would fully contain the 100-year runoff event. The applicant has estimated that the detention basin would achieve 48.3 tons of total suspended solids (TSS) reduction and 176 pounds of phosphorus reduction per year.

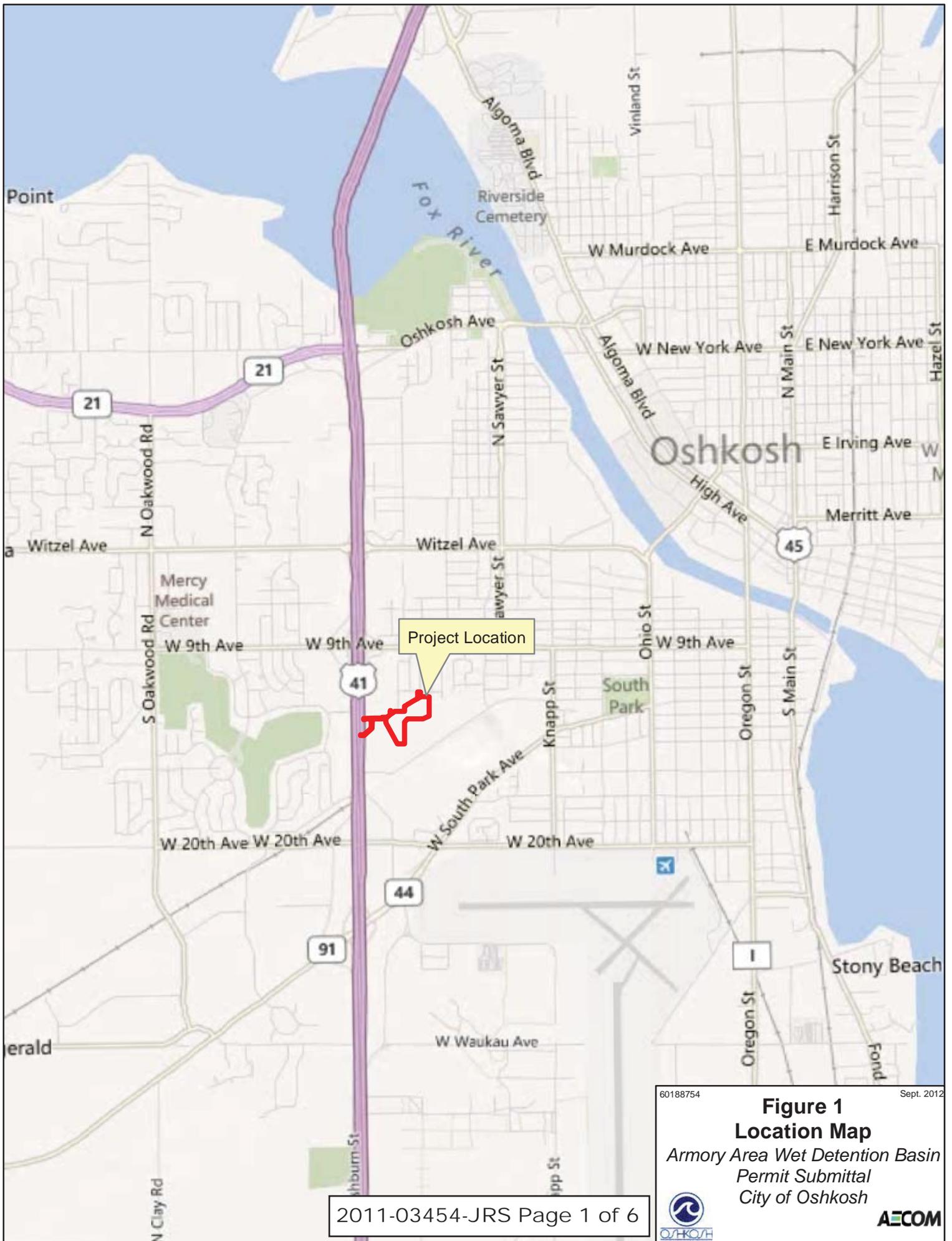
**NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS:** Construction of the proposed project would result in the permanent loss of 26,415 square feet of wet meadow wetlands on the project site. The inlet and outlet structures would account for 937 square feet of the total impacts while the remaining 25,478 square feet of impacts would be attributable to the detention basin itself.

**ALTERNATIVES CONSIDERED:** The applicant conducted an alternatives analysis as part of the planning for the proposed project. The potential alternatives that were identified, evaluated, and subsequently eliminated include a no action alternative, construction of an on-line detention pond, construction of a smaller detention basin size, construction of a detention basin in an alternative location within the Campbell Creek watershed, construction of an underground storage system, construction of conveyance system upgrades, and construction of a stormwater pump station.

The preferred alternative (construction of a wet detention basin that would receive high flows from Campbell Creek) was chosen over the other alternatives because it would maximize the potential for stormwater storage and removal of TSS and phosphorus while maintaining base flow in Campbell Creek and minimizing wetland impacts.

**COMPENSATORY MITIGATION:** To compensate for the unavoidable loss of waters of the U.S., the applicant has proposed to construct 0.86 acre (a 1.4:1 replacement ratio) of wet meadow wetland on property owned by the City of Oshkosh located in Section 31, T. 18N., R. 16E., and Section 36, T. 18N., R. 15E., Winnebago County, Wisconsin. The mitigation would be constructed adjacent to Sawyer Creek and the James Road Detention Basin that is currently under construction.

**Drawings** See attached.



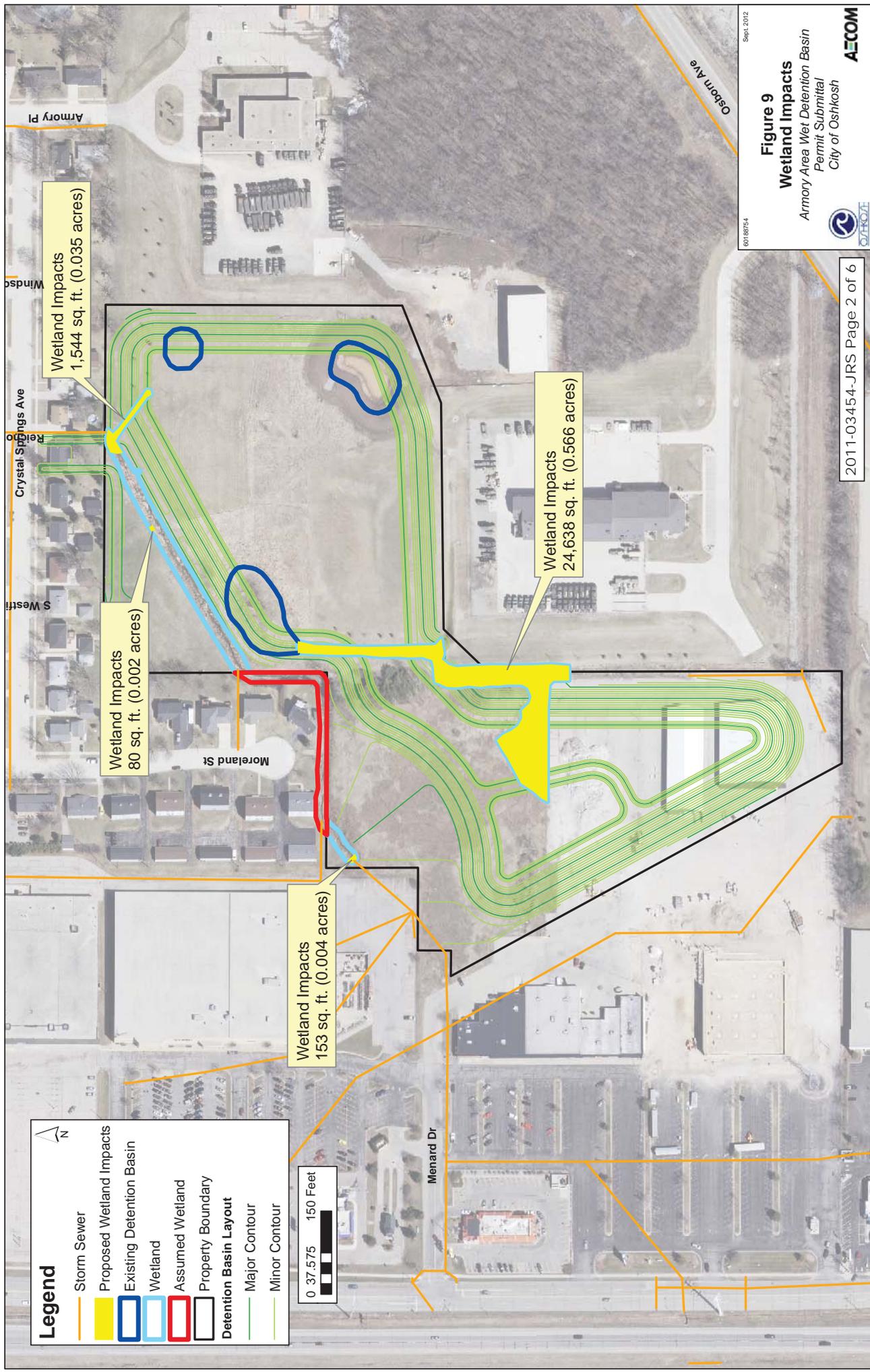
60188754

Sept. 2012

**Figure 1  
Location Map**

*Armory Area Wet Detention Basin  
Permit Submittal  
City of Oshkosh*





**Legend**

- Storm Sewer
- Proposed Wetland Impacts
- Existing Detention Basin
- Wetland
- Assumed Wetland
- Property Boundary
- Detention Basin Layout
- Major Contour
- Minor Contour

0 37.575 150 Feet

Wetland Impacts  
1,544 sq. ft. (0.035 acres)

Wetland Impacts  
80 sq. ft. (0.002 acres)

Wetland Impacts  
153 sq. ft. (0.004 acres)

Wetland Impacts  
24,638 sq. ft. (0.566 acres)

00188754  
Sep. 2012

**Figure 9**  
**Wetland Impacts**  
Armory Area Wet Detention Basin  
Permit Submittal  
City of Oshkosh

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PROJECT  
 ARMORY AREA  
 WET DETENTION BASIN  
 OSHKOSH, WISCONSIN

CLIENT  
 CITY OF OSHKOSH  
 215 CHURCH AVENUE  
 OSHKOSH, WI  
 920-236-5065 tel  
 www.cityofoshkosh.wi.us

CONSULTANT  
 AECOM  
 1350 DEMING WAY, SUITE 100  
 MIDDLETON, WI 53562  
 608-836-9800 tel  
 608-836-9767 fax  
 www.aecom.com

REGISTRATION

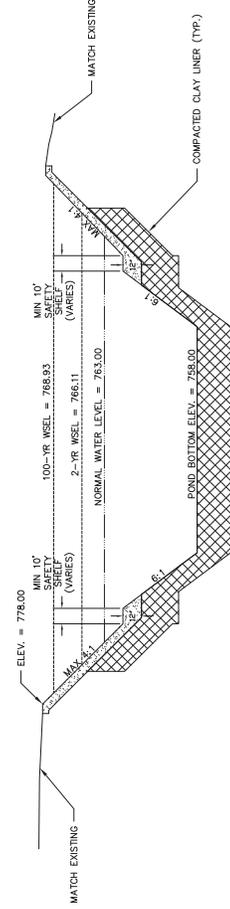
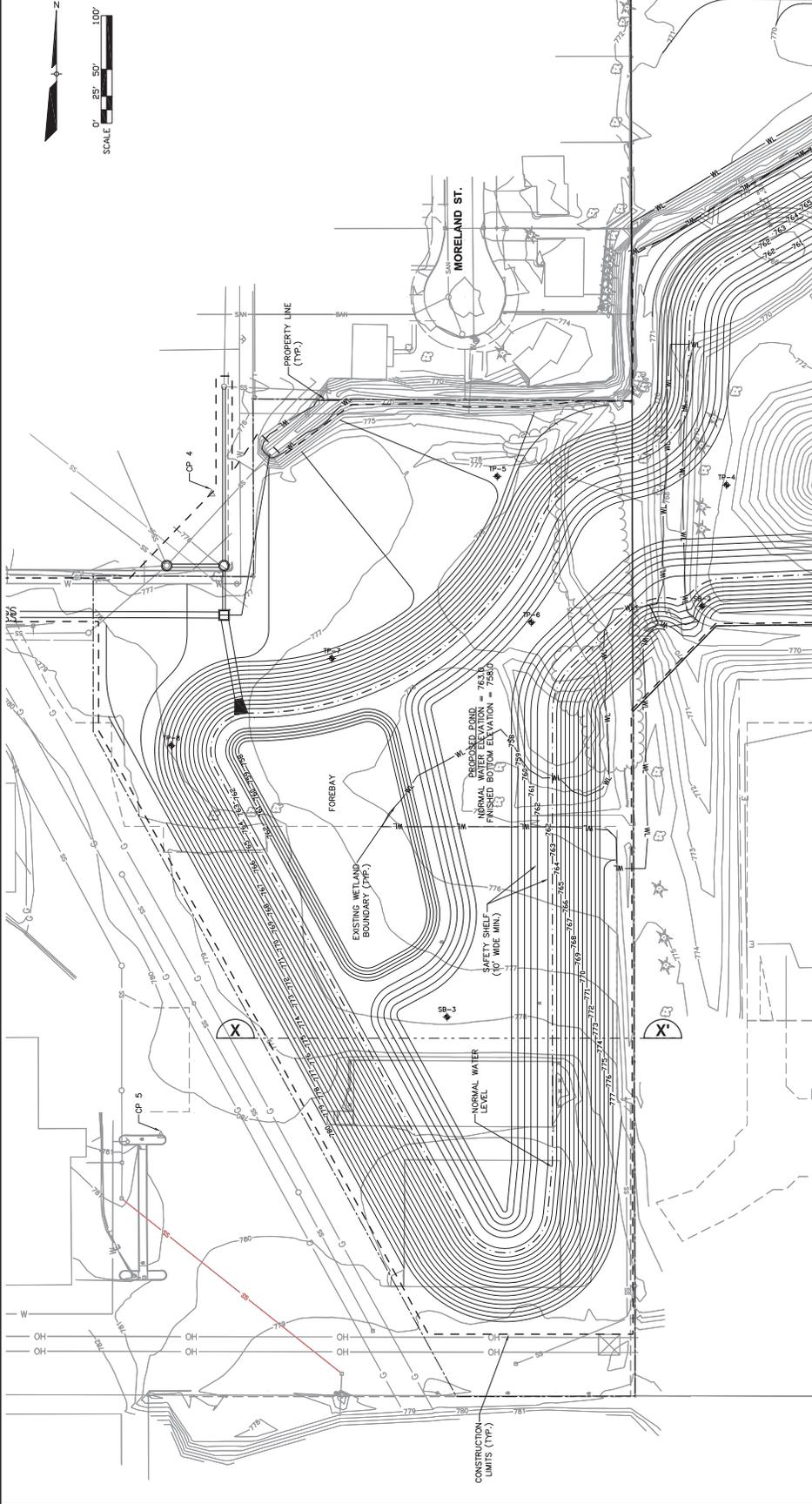
NOT FOR  
 CONSTRUCTION

KEY PLAN

PROJECT NUMBER  
 60188754

SHEET TITLE  
 GRADING PLAN - WEST

SHEET NUMBER  
 C-1



TYPICAL POND SECTION  
 NOT TO SCALE





PROJECT  
 ARMORY AREA  
 WET DETENTION BASIN  
 OSHKOSH, WISCONSIN

CLIENT  
 CITY OF OSHKOSH  
 215 CHURCH AVENUE  
 OSHKOSH, WI  
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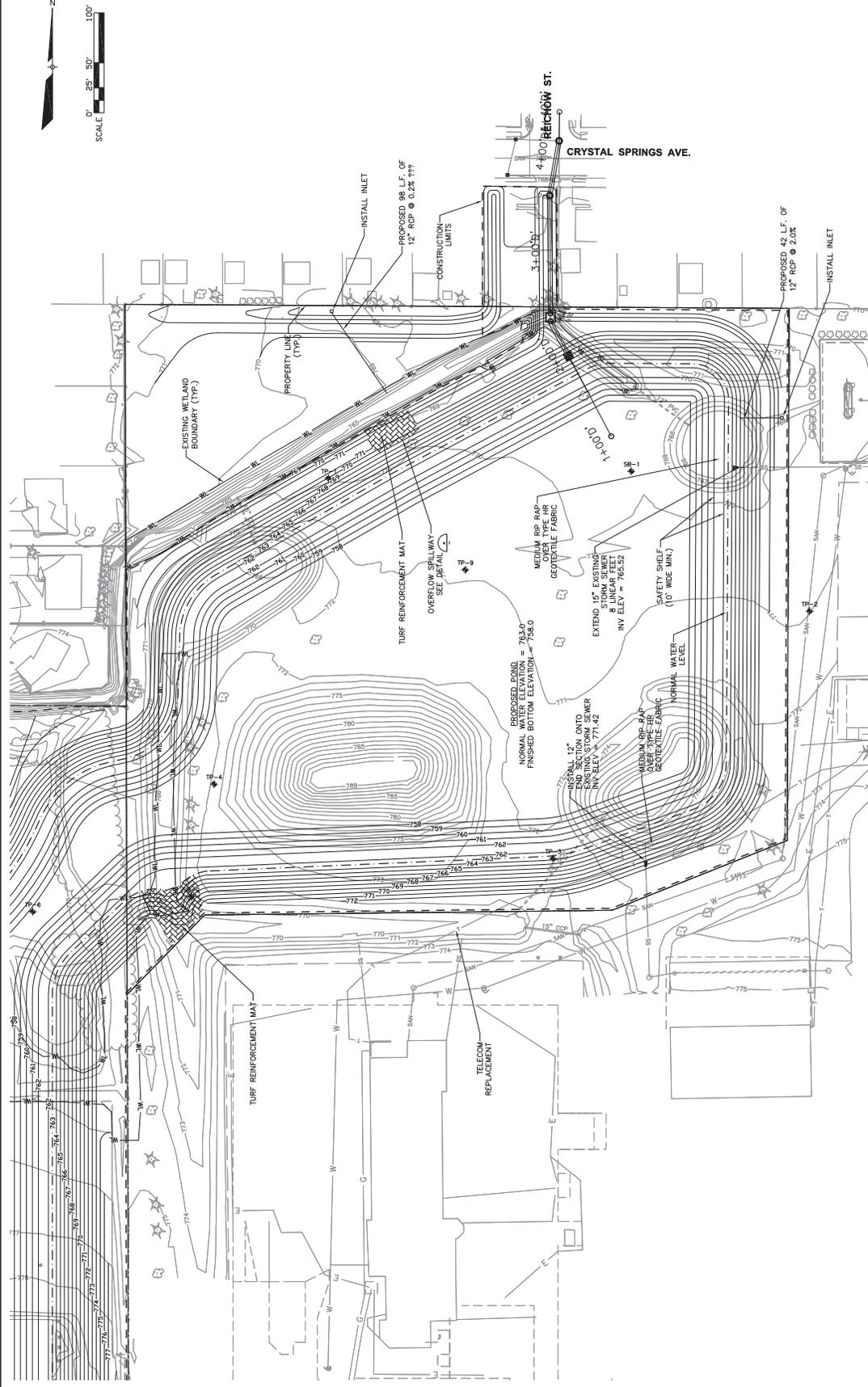
KEY PLAN

PROJECT NUMBER  
 60188754

SHEET TITLE  
 GRADING PLAN - EAST

SHEET NUMBER  
 C-2

7 OF 16



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Mitigation Location

91

91

James Rd

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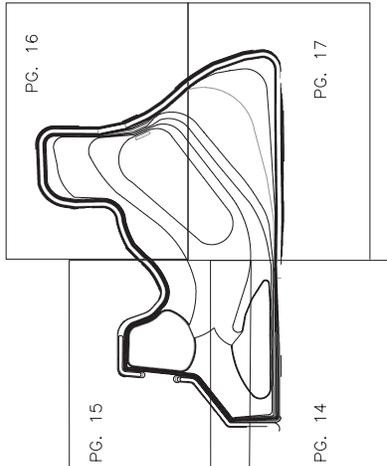
U.S. Army Corps of Engineers  
St. Paul District  
Green Bay Field Office  
211 North Broadway, Suite 221  
Green Bay, Wisconsin 54303

1 inch = 1,000 feet  
0 500 1,000 Feet

**Mitigation Site - MVP-2011-03454-JRS**  
City of Oshkosh Armory Area Detention Basin Project  
Sec. 36, T.18N., R.15E., & Sec. 31, T.18N., R.16E., Winnebago Co., Wisconsin

PLANTING TYPE	RATE	AREA	TOTAL TREES	TOTAL SHRUBS	ADDITIONAL UNDISTURBED
TREE GROUP A	100 TREES/AC	50,728 SQ FT			
TREE GROUP B	50 TREES/AC	42,857 SQ FT			
SHRUB GROUP 1	250 SHRUBS/AC	15,463 SQ FT			
SHRUB GROUP 2	100 SHRUBS/AC	70,715 SQ FT			

- 1 INTERPLANT AREAS SHOWN AS TREE GROUP/SHRUB GROUP.
- 2 SEE CROSS-SECTIONS AND SHEET 18 FOR MISC. LAYOUT AND DEMOLITION DETAILS.
- 3 INTERPLANTING OF TREES AND SHRUBS SHALL BE AT SUITABLE AREAS OF THE SITE (E.G. SLOPE OF BERM AND AT HIGH AREAS OF MICROTOPOGRAPHY).



- (A) TREES PER TREE GROUP
- (1) SHRUBS PER SHRUB GROUP
- (B/2) TREES AND SHRUBS PER ASSOC. GROUP

WETLAND MITIGATION AREA

WETLAND PLUGS W/ SILKY DOGWOOD SHALL BE EVENLY DISTRIBUTED WITH VARIOUS PLANTING AREAS. FOUR SPECIES SHALL BE EVENLY DISTRIBUTED WITH VARIOUS GROUPING AT A RATE OF 2/PLUGGY

TOP OF BERM  
ELEVATION: 815  
WIDTH: 20'



NO.	REVISIONS	DATE