

Information for File # 2016-01223-MMJ; Methodist Hospital Flood Storage Mitigation and Wetland Enhancement Project

Applicant: Park Nicollet, Attn: Robert Riesselman

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Primary County: Hennepin

Section: 20

Township: 117 N.

Range: 21 W.

Information Complete On: 5/20/2016

Posting Expires On: 5/30/2016

Authorization Type: LOP-05-MN

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. 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>.

PROJECT BACKGROUND, DESCRIPTION AND PURPOSE:

The primary purpose of the project is to provide required flood storage mitigation for a proposed floodwall that would decrease the flood storage capacity within developed areas of the Park Nicollet Methodist Hospital. A secondary purpose is to enhance the herbaceous vegetation community within the wetland which is currently composed of nearly monotypic invasive cattail (*Typha angustifolia* and *T. X glauca*). The project is needed since flooding potentially impacts parking areas, internal roads and walking areas on the west side of the hospital campus. The floodwall would be constructed along the west boundary of the hospital campus and a portion of the wetland complex immediately to the west would be excavated to provide flood storage capacity to mitigate the decrease in flood storage that would result from the floodwall construction.

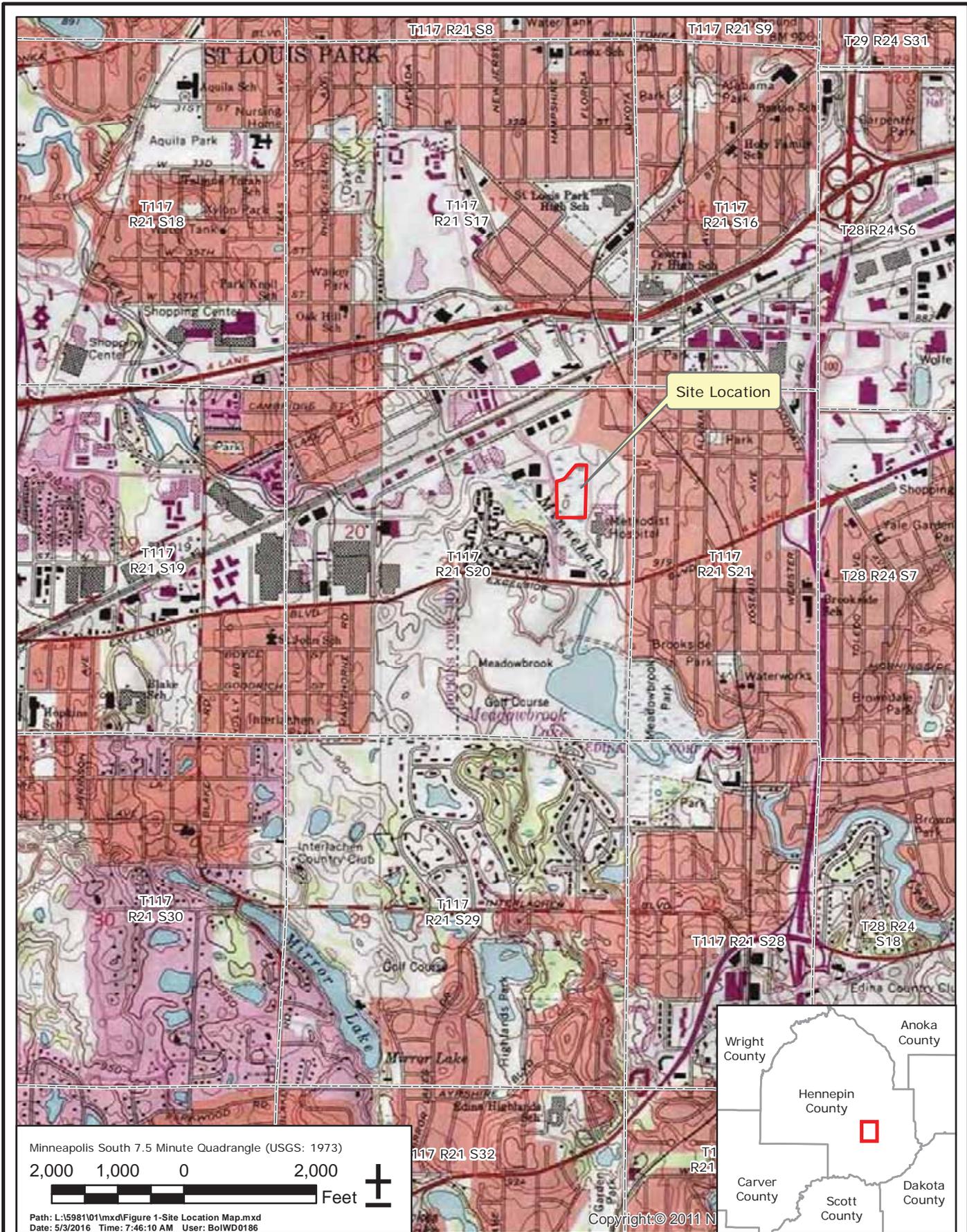
The flood storage loss from floodwall construction has been determined to be 1,175 cubic yards based on volume calculations made using established normal water elevations and 100 year floodplain elevations from hydrologic modeling previously conducted. The wetland excavation/enhancement project as proposed would provide approximately 2,500 cubic yards of new flood storage as floodplain mitigation.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: The project would involve excavation and grading activities that would result in the discharge of dredged material into approximately 2.9 acres of existing seasonally flooded basin, fresh wet meadow, and floodplain forest type wetland. The project would involve converting the existing degraded wetland basin to a higher quality wetland with varied wetland communities including: seasonally flooded basin, wet meadow, shallow marsh, deep marsh, shrub swamp and forested wetland type wetland, as shown on the enclosed figures.

ALTERNATIVES CONSIDERED: The applicant considered constructing the floodplain mitigation site in an upland area, but there is not adequate upland located adjacent to the hospital and Minnehaha Creek that could provide the flood storage replacement needed as a result of the floodwall construction project. The applicant is working closely with the Minnehaha Creek Watershed District (MCWD) in order to comply with their regulatory requirements; the MCWD supports the proposed floodplain mitigation and wetland enhancement project.

COMPENSATORY MITIGATION: The applicant has not proposed compensatory mitigation for this project. The application states: "The proposed work will include the enhancement of the vegetation community in the wetland and will maintain or improve wetland functions ("functional lift"). Compensatory mitigation is not proposed since the proposed work will not result in a loss or degradation of the quality of wetland."

Drawings: See enclosed, labeled as 2016-01223-MMJ, Figures 1 - 7.



Minneapolis South 7.5 Minute Quadrangle (USGS: 1973)
 2,000 1,000 0 2,000
 Feet

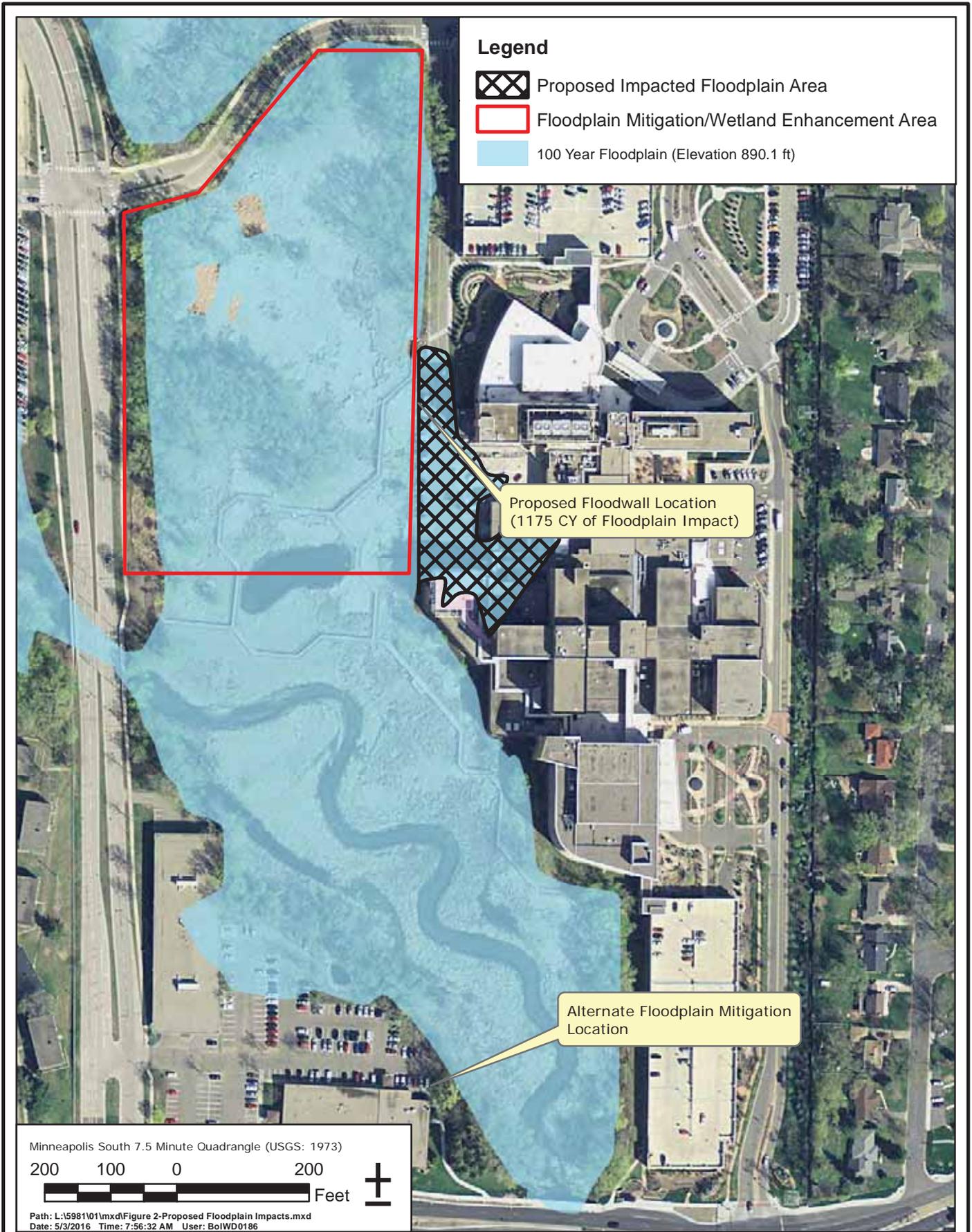
Path: L:\5981101\mxd\Figure 1-Site Location Map.mxd
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PARK NICOLLET
Site Location Map



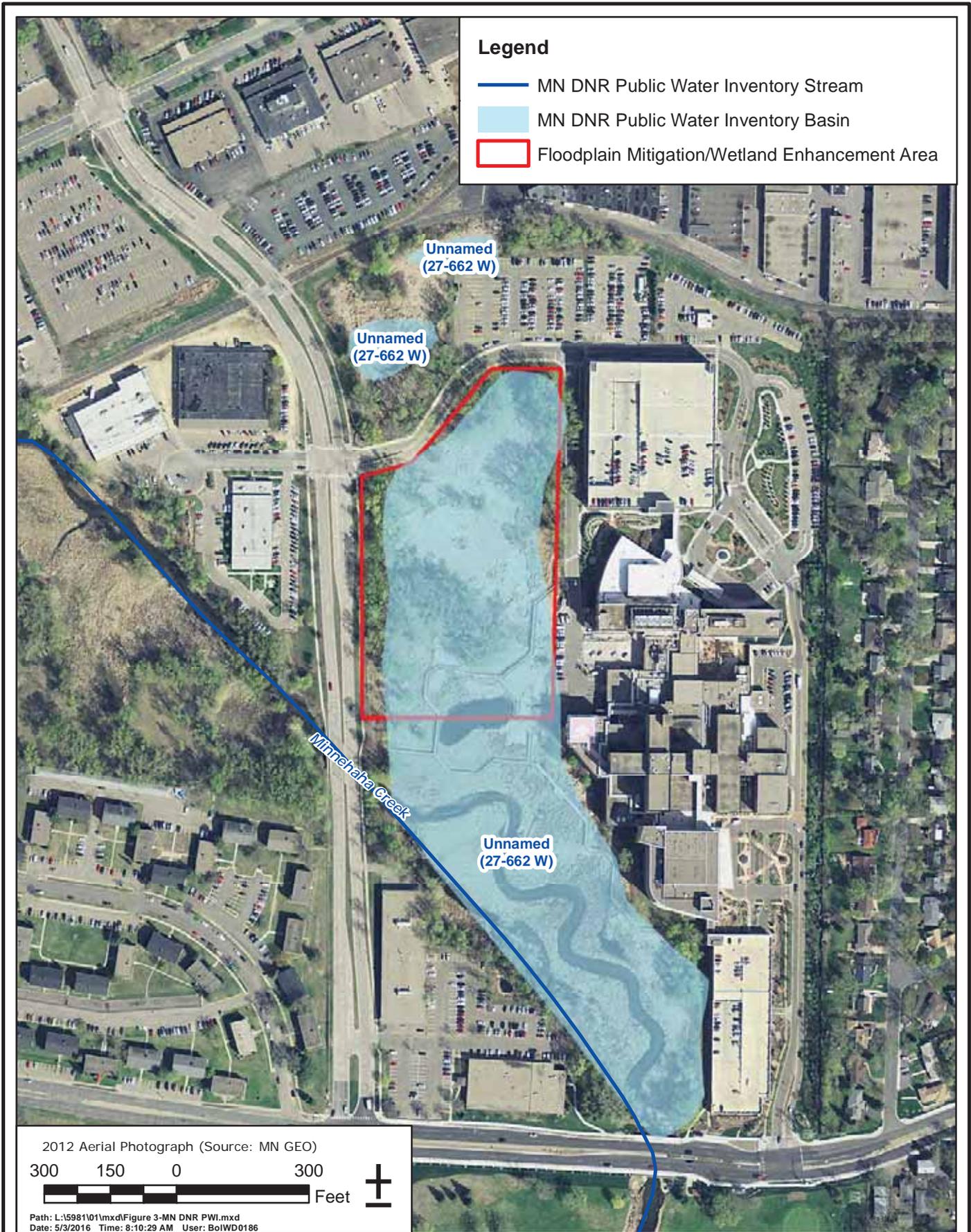
MAY 2016
Figure 1



PARK NICOLLET
Proposed Floodplain Impacts



MAY 2016
Figure 2



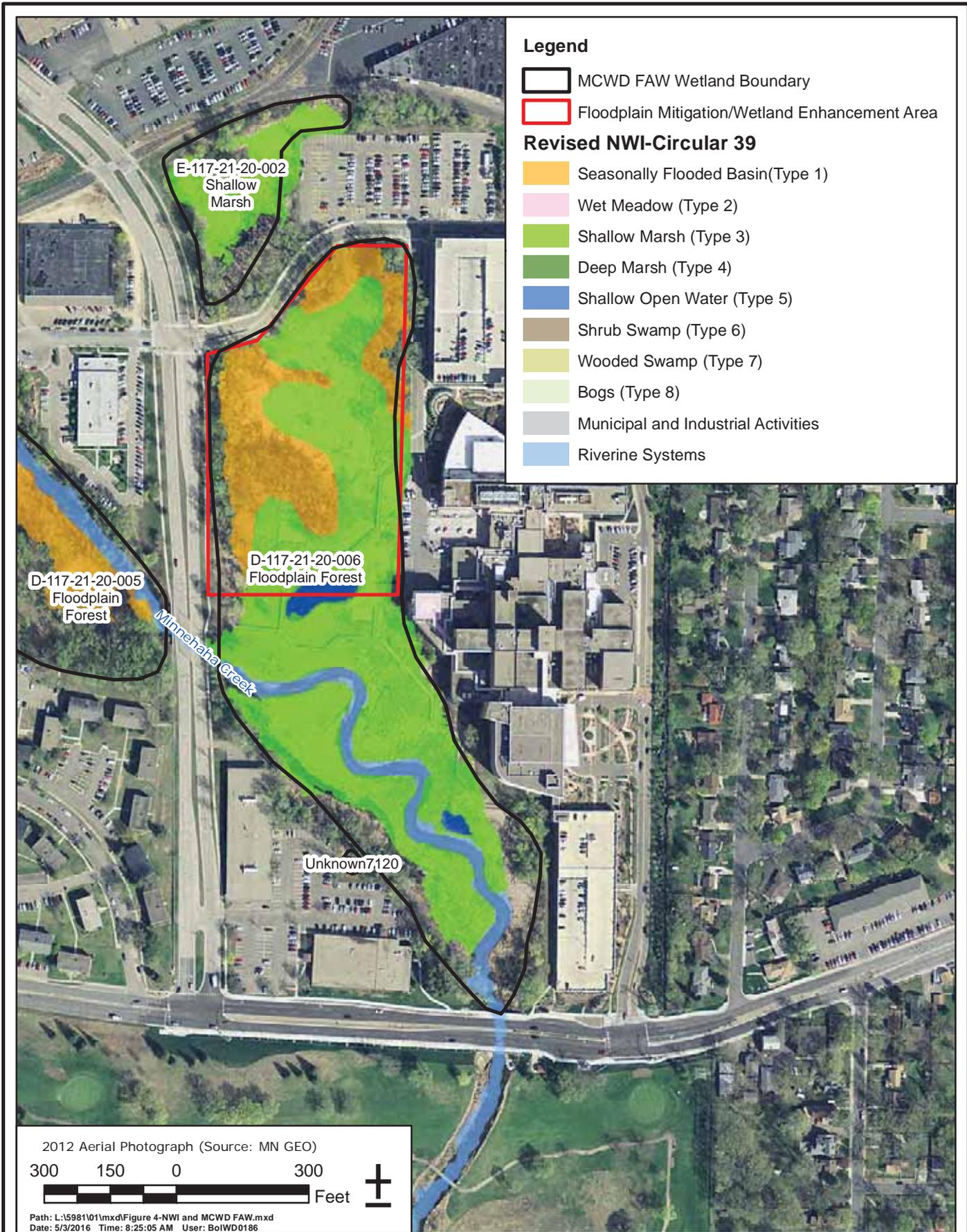
PARK NICOLLET

MN DNR Public Water Inventory



MAY 2016

Figure 3



Legend

-  MCWD FAW Wetland Boundary
-  Floodplain Mitigation/Wetland Enhancement Area

Revised NWI-Circular 39

-  Seasonally Flooded Basin(Type 1)
-  Wet Meadow (Type 2)
-  Shallow Marsh (Type 3)
-  Deep Marsh (Type 4)
-  Shallow Open Water (Type 5)
-  Shrub Swamp (Type 6)
-  Wooded Swamp (Type 7)
-  Bogs (Type 8)
-  Municipal and Industrial Activities
-  Riverine Systems

2012 Aerial Photograph (Source: MN GEO)

300 150 0 300

 Feet 

Path: L:\5981\01\mxd\Figure 4-NWI and MCWD FAW.mxd
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PARK NICOLLET
 NWI and MCWD FAW



MAY 2016
 Figure 4

Legend

— Wetland Boundary

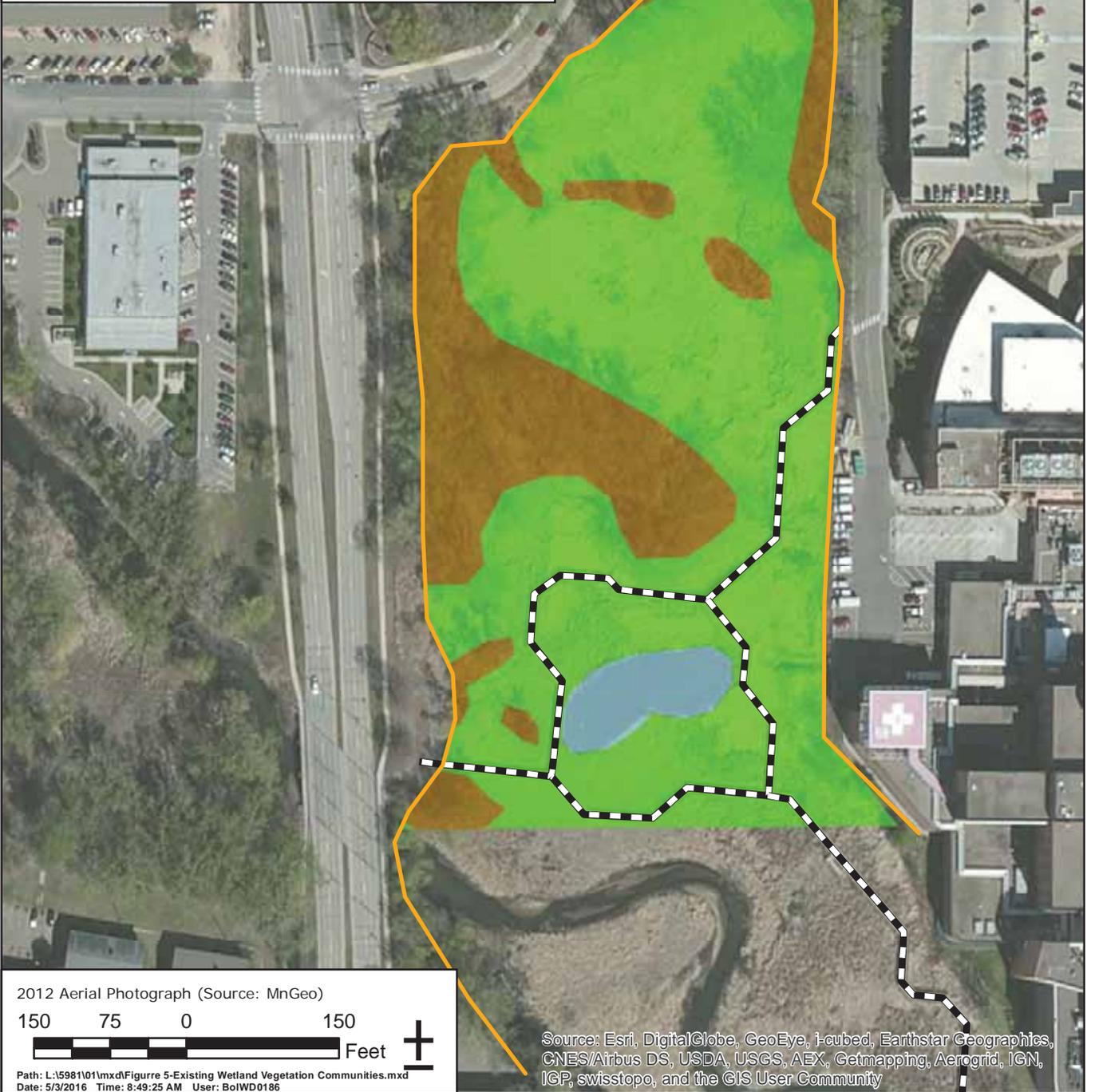
▬ Boardwalk

Existing Wetland Vegetation Community

■ Deep Marsh

■ Floodplain Forest

■ Seasonally Flooded Basin/Fresh (wet) Meadow



2012 Aerial Photograph (Source: MnGeo)



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

PARK NICOLLET

Existing Wetland Vegetation Communities



APR 2016

Figure 5



PARK NICOLLET
Proposed Work in Wetlands



APR 2016
Figure 6

Legend

— Wetland Boundary

▬ Boardwalk

Proposed Wetland Vegetation Communities

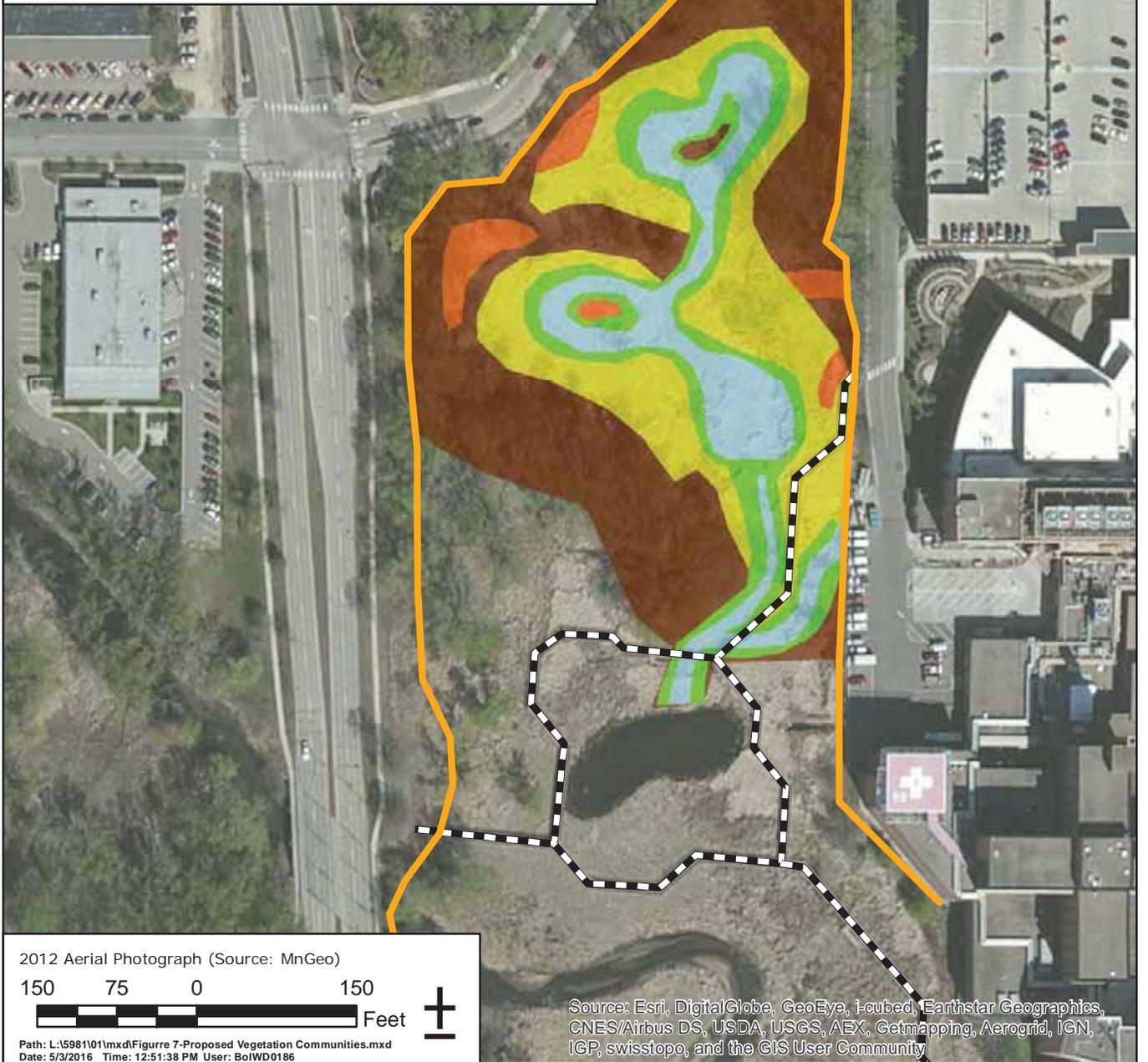
Deep Marsh

Shallow Marsh

Seasonally Flooded Basin/Wet Meadow

Shrub Swamp

Floodplain Forest



PARK NICOLLET

Proposed Vegetation Communities



MAY 2016

Figure 7