Information for File # 2008-02596-MMJ; Korin Pond Excavation/Wetland Enhancement Project

Applicant: James Korin

Corps Contact: Melissa Jenny

Address: 150 Fifth Street East, Ste. 700, St. Paul, Minnesota 55101

E-Mail: Melissa.m.jenny@usace.army.mil

Phone: **(651) 290-5363**

Primary County: Hennepin

Section: 9

Township: 118 N.

Range: 23 W.

Information Complete On: 02/02/2016

Posting Expires On: 02/11/2016

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor 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 above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at http://www.mvp.usace.army.mil/.

PROJECT DESCRIPTION AND PURPOSE: The applicant is proposing to excavate and enhance up to approximately 1.18 acres of seasonally flooded and wet meadow type wetland, located on an approximately 40-acre property in the City of Medina. The project would involve an initial phase and a potential second phase. Phase I would involve excavation of approximately 0.49 acre of wetland during 2016. If implemented, optional Phase II would involve up to 0.69 acre of additional wetland excavation, and up to 0.82 acre of wetland creation through excavation of adjacent upland. The second phase would expand the Phase I excavation to create and enhance a cumulative total of up 2.0 acres of wetland. If implemented, the second phase would occur during 2017 or 2018.

The estimated maximum water depth in the excavated basin would be 6 feet. The wetland overflow would be on the northern side of the property and would consist of a narrow compacted berm that would involve up to 885 square feet of wetland fill. The berm would have a maximum width of 5 feet, a maximum height of 1 foot, a crest elevation of 1002 feet msl, and a maximum length of 177 feet. The berm would be constructed of native clay loam, compacted by heavy equipment, and seeded to a grass-forb mixture to soil stabilize soils. Excavated side

slopes in the pond would be 8:1 or flatter and the equipment operator would create variable side slopes and bottom contours within the pond. Excavated soils would be spread over adjoining upland. Disturbed soils within the wetland fringe and on the adjoining upland would be seeded to grass-forb mixtures to stabilize soils, provide wildlife habitat, and improve wetland functions

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: Pond excavation activities would result in the conversion of 1.18 acres of seasonally flooded and wet meadow type wetland to a deep marsh and shallow open water type wetland. Berm construction activities would result in the discharge of fill material into 885 square feet of wet meadow type wetland.

ALTERNATIVES CONSIDERED: The applicant considered not completing the project but that would not meet his overall project purpose; to construct a wildlife pond on his property. Also, not completing the project would result in the persistence of invasive plant species (reed canary grass and stinging nettle) on the property. The applicant also considered a larger and deeper pond feature, but decided to minimize the proposal to include gradual side slopes and a maximum depth of 6 feet, to limit the loss of wetland function associated with the project.

COMPENSATORY MITIGATION: The applicant has not proposed any compensatory mitigation as part of this project.

Drawings: See attached.

Note: Site and wetland boundaries on this figure are approximate and do not constitute an official survey product.

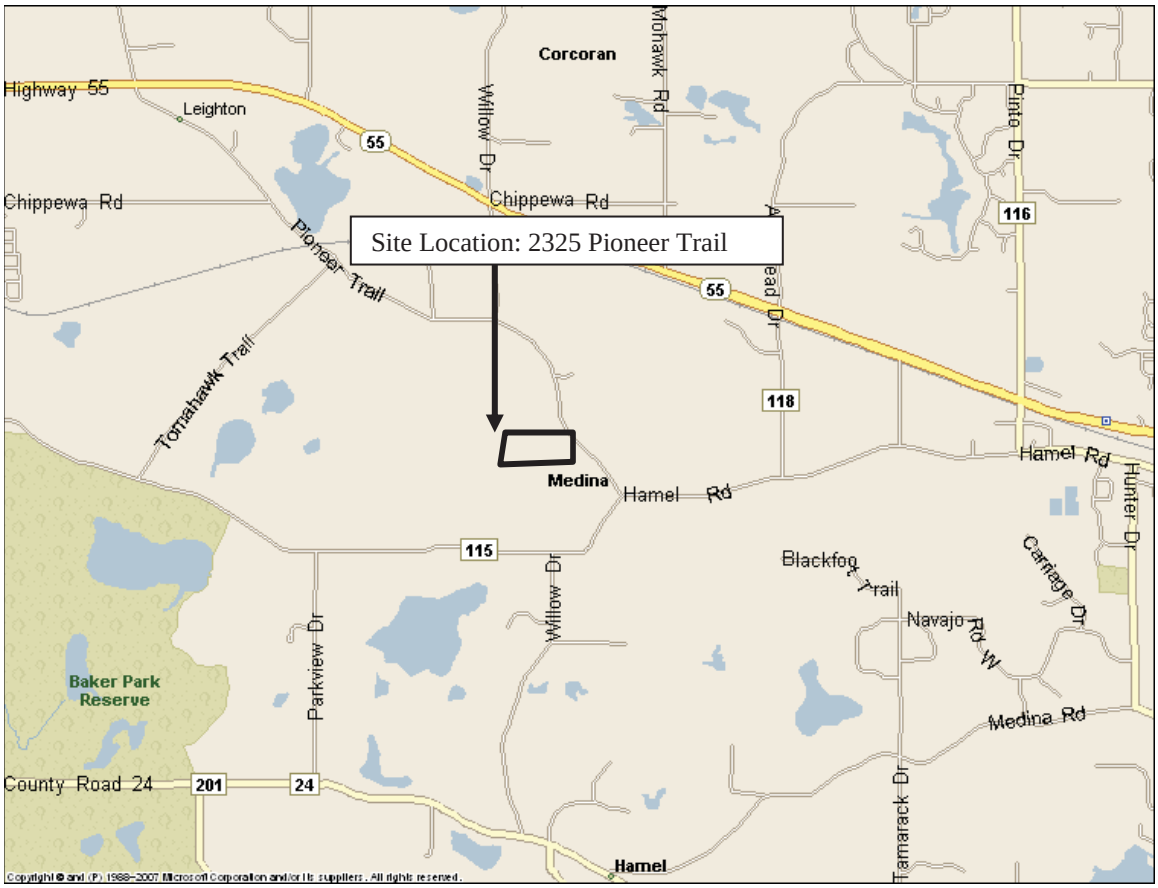


Figure 1– Site Location

Korin Wetland Enhancement (KES No. 2015-100)
Medina, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

No Scale

Note: Site boundaries on this figure are approximates and do not constitute an official survey product.

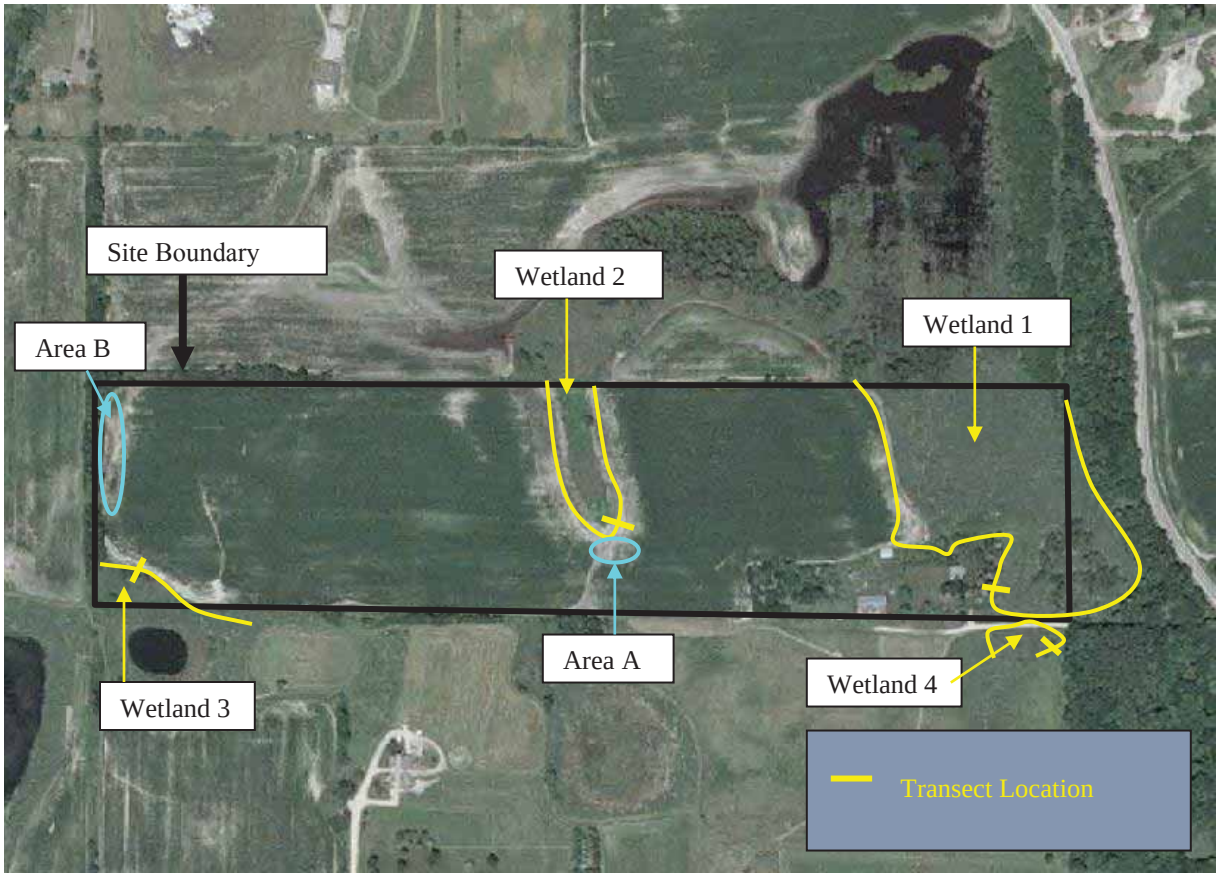


Figure 2 – Aerial Photography and Wetlands

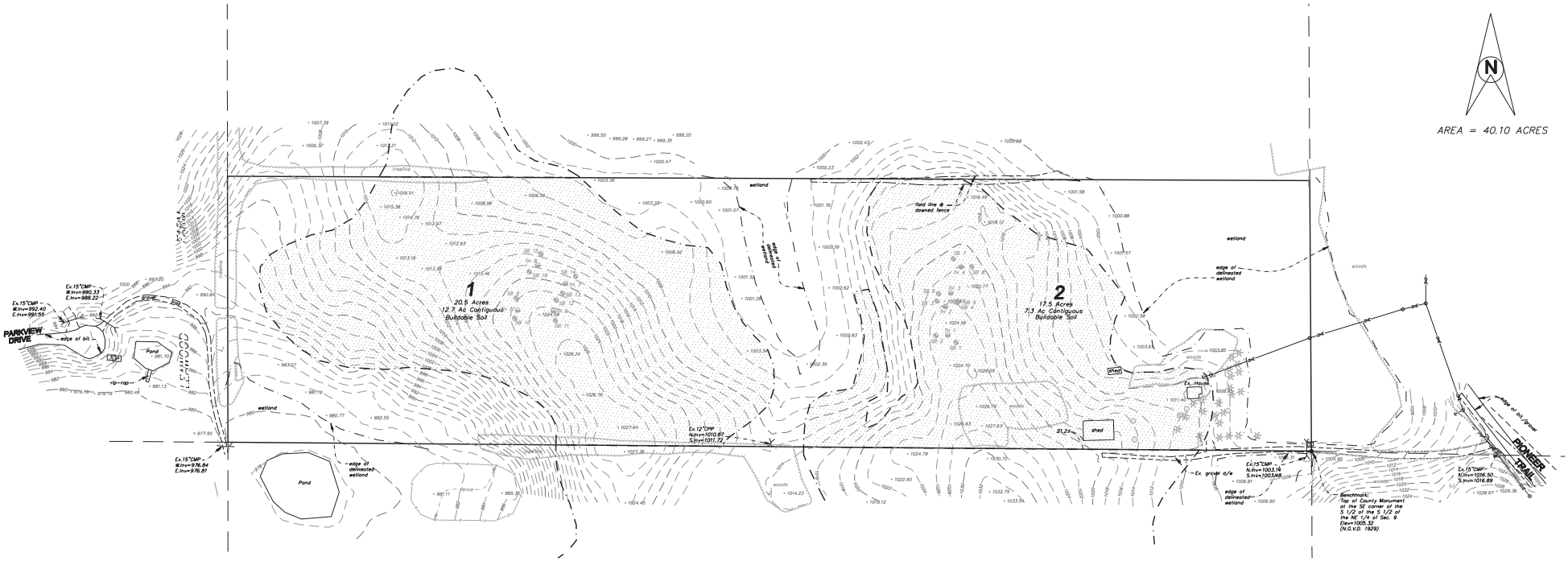
Korin Wetland Enhancement (KES No. 2015-100)
Medina, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

Scale: 1 inch ~ 530 feet

Topographic Survey



ZONING = (RR) RURAL RESIDENTIAL

SOILS LEGEND:

L22C2 = Lester Loam, Morainic, 6–12% Slopes, Eroded
L22E = Lester Loam, Morainic, 18–25% Slopes
L24A = Glencoe Loam, 0–1% Slopes, Depressional
L36A = Hamel, Overwash–Hamel Complex, 1–4% Slopes
L40B = Angus–Kilkenny Complex, 2–6% Slopes
L44A = Nessel Loam, 1–3% Slopes
L41C2 = Lester–Kilkenny Complex, 6–12% Slopes, Eroded
L41D2 = Lester–Kilkenny Complex, 12–18% Slopes
L50A = Houghton & Muskego Soils, 0–1% Slopes, Depressional

denotes buildable soils

LEGEND

- EX FENCE
- OHE — EXISTING OVERHEAD ELECTRIC
- WOODS OUTLINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- × 101.8 EXISTING SPOT ELEVATION
- CULVERT
- END OF CULVERT
- UTILITY POLE
- EXISTING GUY WIRE
- SWAMP SYMBOL
- EXISTING TREE SYMBOLS

Figure 3 -- Topographic Survey and Wetlands

● denotes iron monument found
○ denotes iron pipe set and marked as shown: CTTO
denotes soil boring
denotes percolation test hole

Topographic Survey on the S 1/2 of the S 1/2 of the NE 1/4 of Sec. 9, T. 118, R. 23, Hennepin County, Minnesota

Requested By: James Howard Johnson Estate
Date: 4/25/07
Drawn By: D.N.A.
Scale: 1"=100'
Checked By: T.A.B.

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.
Edward J. Otto
Date: _____ License # 14345

CTTO ASSOCIATES
Rochester and Land Surveyors, Inc.
Rick Otto
www.ottoassociates.com
8 West Mankato Blvd.
Lakeville, MN 55044
Ph: (952)985-4477
Fax: (952)985-4822

Revised: 6/05/08 ADD NEW ADD NEW LAND TO PARC
Job No. 1-07-0002

Note: Site boundaries on this figure are approximates and do not constitute an official survey product.

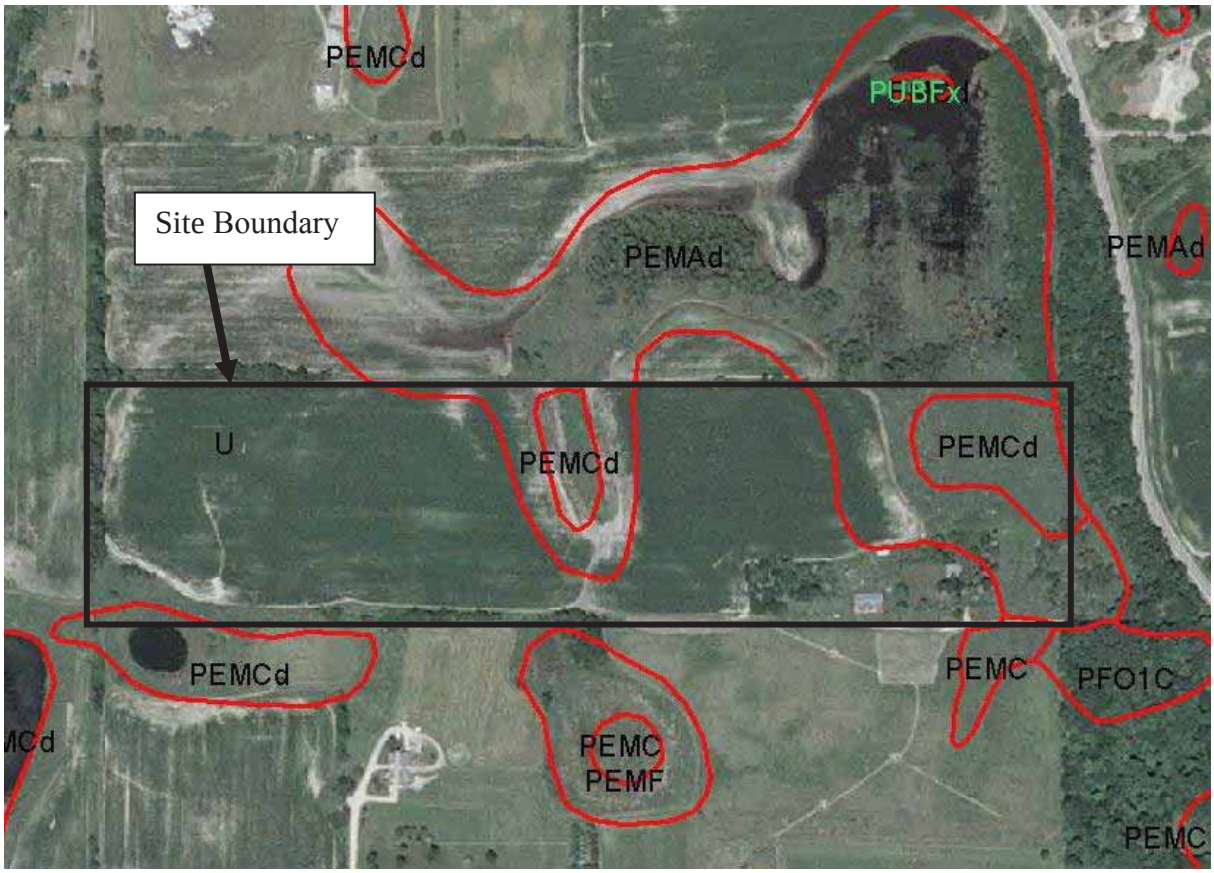


Figure 4 – National Wetlands Inventory

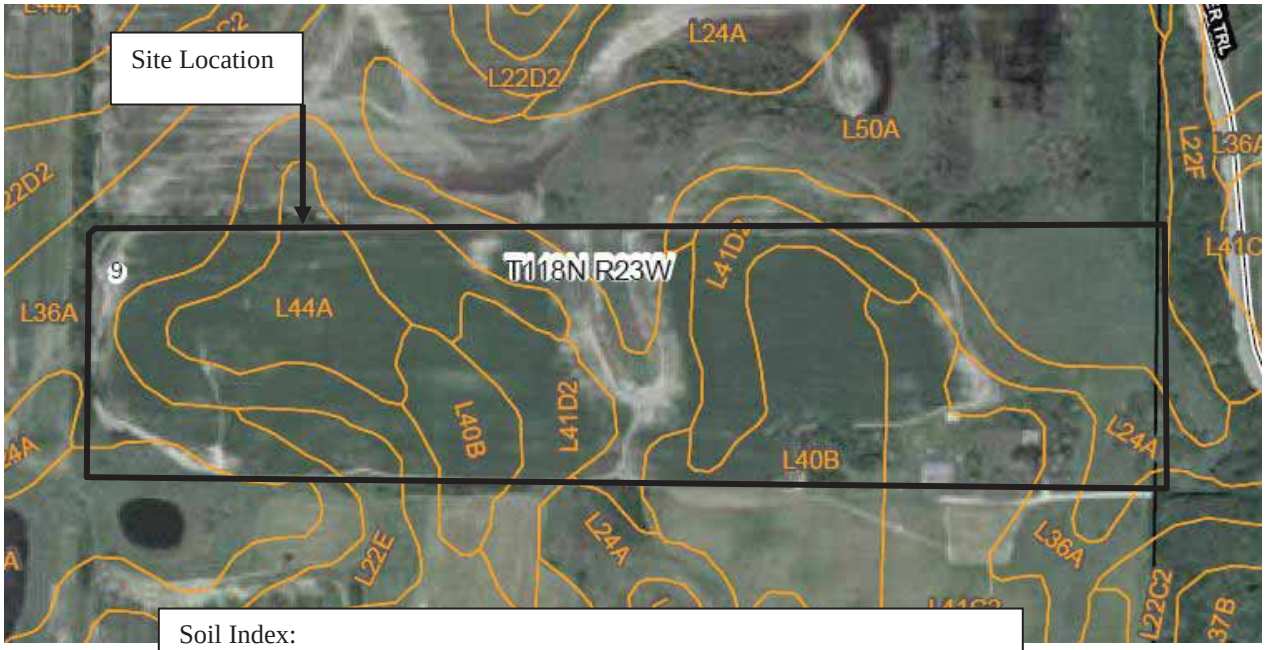
Korin Wetland Enhancement (KES No. 2015-100)
Medina, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

Scale: 1 inch ~ 520 feet

Note: Site boundaries on this figure are approximates and do not constitute an official survey product.



Soil Index:

L44A: Nessel loam, 1 to 3% slopes
L41C2 and D2: Lester-Kilkenny complex, 6 to 12 and 12 to 18% slopes
L36A: Hamel, overwash-Hamel complex, 1 to 4% slopes
L24A: Glencoe loam, depressional, 0 to 1% slopes
L40B: Angus-Kilkenny complex, 2 to 6% slopes
L22E: Lester loam, morainic, 18 to 25% slopes
L22C2: Lester loam, morainic, 6 to 12% slopes
L50A: Houghton and Muskego soils, depressional, 0 to 1% slopes

Figure 6 – Soils

Korin Wetland Enhancement (KES No. 2015-100)
Medina, Minnesota

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

N

1 inch ~ 480 feet

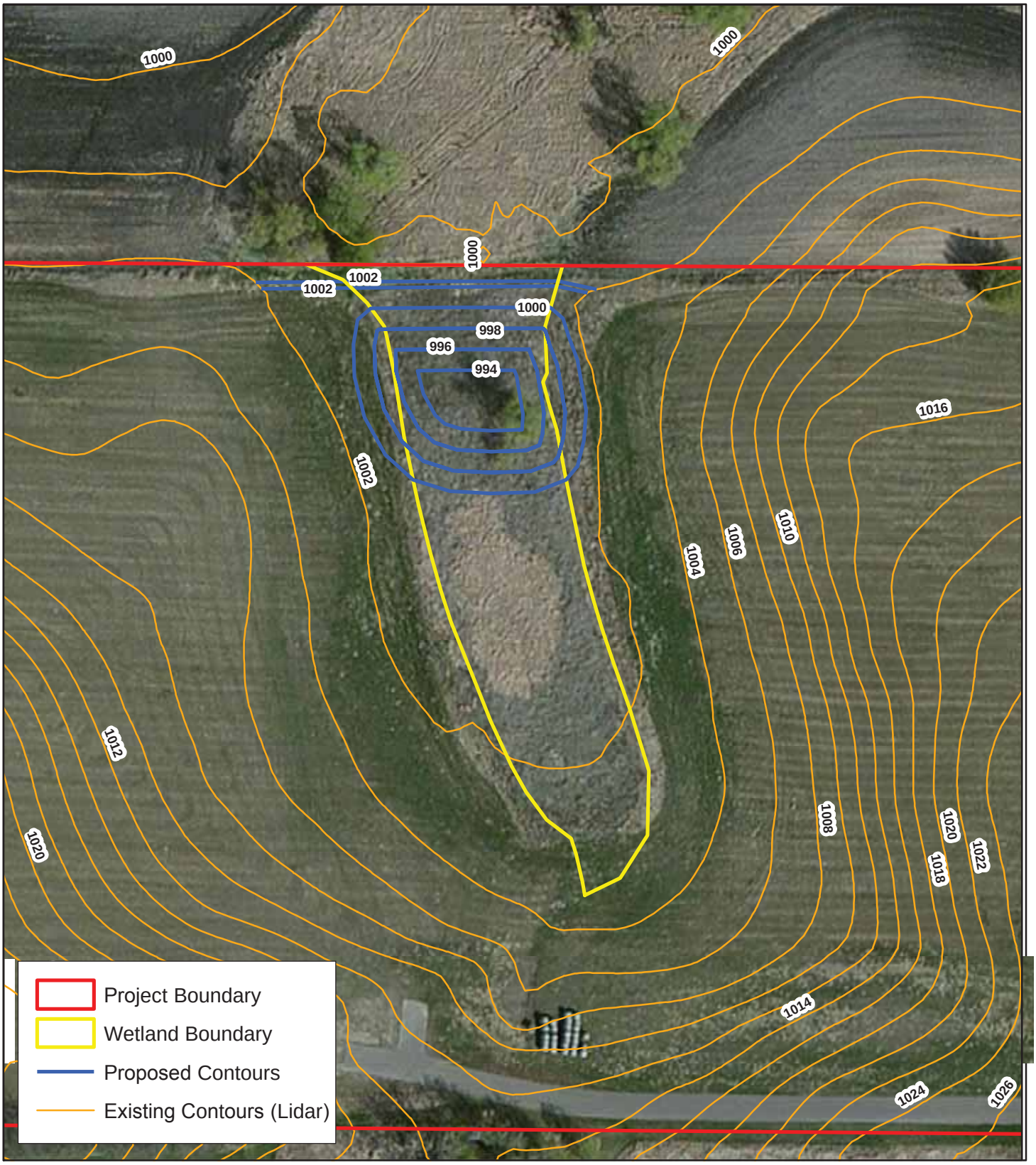


Figure 7 - Half-Acre Wetland Enhancement Concept

0 100 Feet

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Source: MnGeo, ESRI Imagery Basemap

Korin Wetland Enhancement (KES 2015-100)
Medina, Minnesota

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.

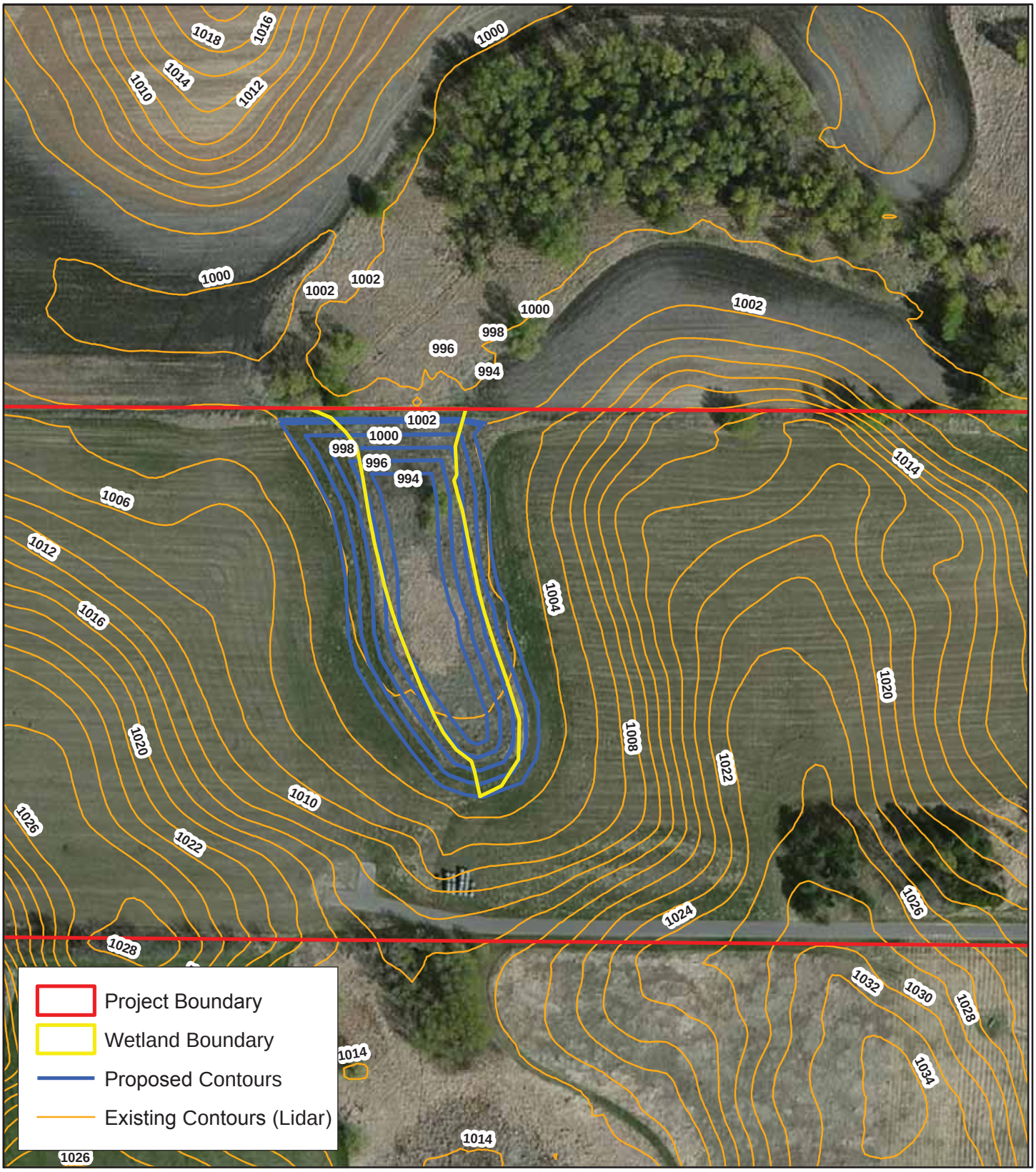

Figure 8 - Two-Acre Wetland Enhancement Concept

0 100 Feet

KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

Source: MnGeo, ESRI Imagery Basemap

Korin Wetland Enhancement (KES 2015-100)
Medina, Minnesota

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