

# Information for File #2014-01952-BGO

**Applicant:** Minnesota Department of Transportation

**Corps Contact:** Benjamin Orne

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**Phone:** (651) 290-5280

**Project Location:** Sec. 9, 10, & 16, T. 109 N., R. 43 W., and Sec. 35, T. 110 N., R. 43 W.,  
Lyon County, Minnesota.

**Information Complete On:** October 13, 2015

**Posting Expires On:** October 22, 2015

**Authorization:** 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.

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(s) 9 & 10 of the Rivers and Harbors Act of 1899 and/or 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 Description:**

The Minnesota Department of Transportation proposes to discharge dredged or fill material into 0.67 acre of fresh (wet) meadow (Type 2) wetlands, 0.11 acre of shallow marsh (Type 3) wetlands, and below the plane of the ordinary high water mark along 62 linear feet (0.02 acre) of an unnamed tributary to Redwood River. Of which, approximately 0.58 acre of wetland impact would result from permanent fill and 0.20 acre of wetland impact would result from permanent excavation. The work will be conducted in association with the construction of two approximately 1-mile long passing lanes between the cities of Florence and Russell on Trunk Highway (TH) 23 (SP 4206-22). The passing lanes will be constructed by adding a lane to the highway. As a result, centerline culverts will be extended and the highway ditch will be shifted over. Several centerline culverts will also be lined under the project.

The purpose of this project is to improve the operations and safety of the TH 23 corridor between I-90 and Willmar, which currently does not provide acceptable levels of service. Providing the proposed passing opportunities should enhance highway safety and mobility by reducing the pressure for traffic to make high-risk passes when traveling behind slower moving vehicles.

**Federally Listed Threatened and Endangered Species:**

According to the USFWS Midwest Region website, which was checked on October 8, 2015, the Northern long-eared bat (threatened) and Poweshiek skipperling (endangered) are found in Lyon County, Minnesota.

**Historic Properties:**

The latest version of the National Register of Historic Places has been consulted and no listed properties (known to be eligible for inclusion, or included in the Register) are located in the project area.

**State Listed Impaired (Section 303(d)) Waters:**

According to the Minnesota Pollution Control Agency's Impaired Waters Viewer, which was checked on October 8, 2015, the Redwood River is listed as impaired for aquatic consumption due to concentrations of mercury in fish tissue that exceed the water quality standard, aquatic life due to low populations of fish and other aquatic organisms as indicated by fish population assessments, and aquatic recreation due to high bacteria levels caused by the presence of human or animal waste in the water. The project site is located approximately 4,000 linear feet upstream of the Redwood River.

**Mitigation:**

The applicant proposes to satisfy wetland compensatory mitigation requirements by debiting wetland credits from a Corps-approved mitigation bank.

**Drawings:**

See attached MVP-2014-01952-BGO, Page 1 of 12 through Page 12 of 12.

# MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR GRADING, MILLING AND BITUMINOUS PAVING

LOCATED ON T.H. 23 FROM 0.97 MILES NE OF T.H. 14 TO 0.11 MILES SW OF 170TH ST.

STATE PROJ. NO. 4206-22  
 GROSS LENGTH 22226.48 FEET 4.210 MILES  
 BRIDGES-LENGTH 184.68 FEET 0.035 MILES  
 EXCEPTIONS-LENGTH 8700.59 FEET 1.648 MILES  
 NET LENGTH 13525.89 FEET 2.562 MILES  
 REF. POINT 53+00.523 TO REF. POINT 57+00.733

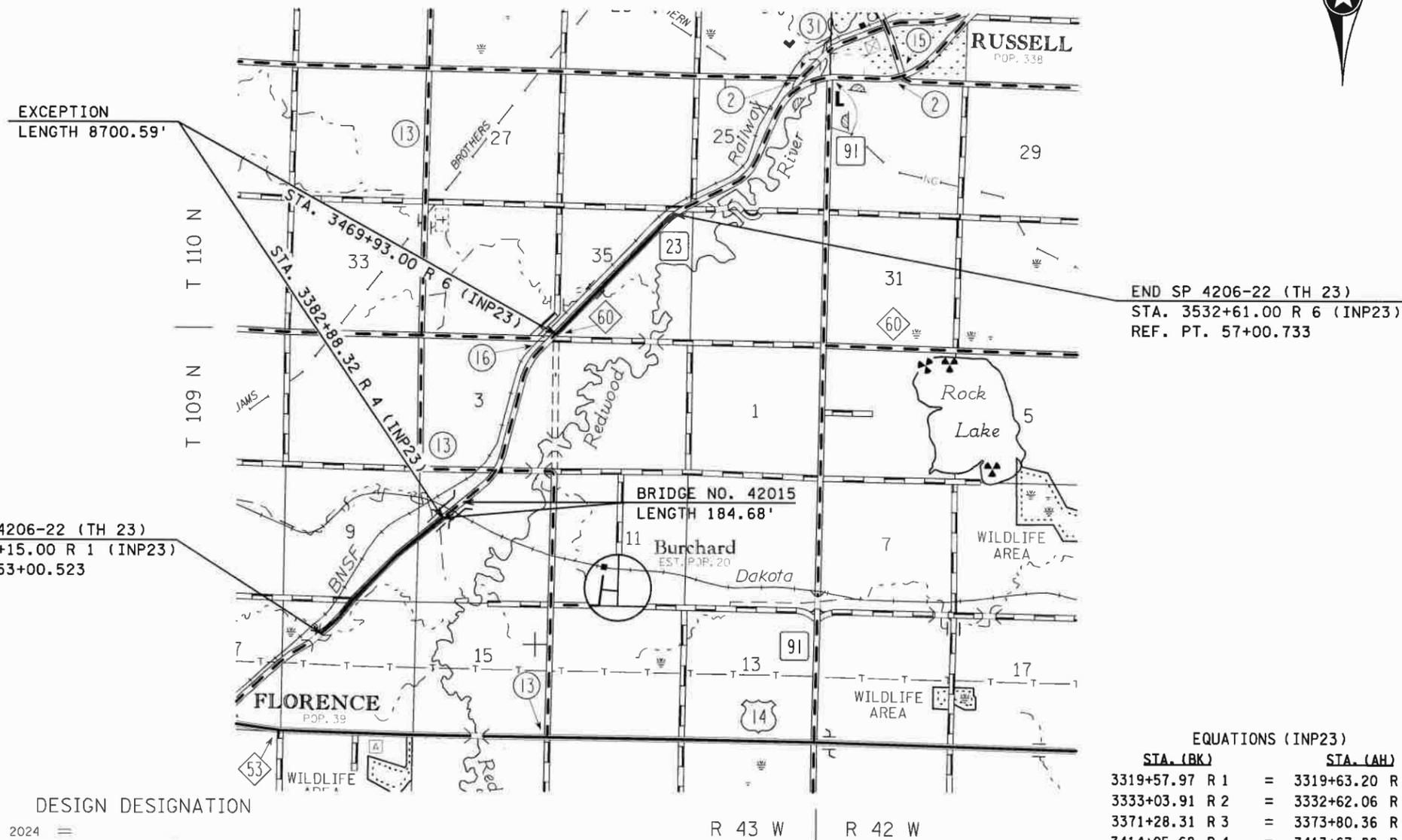
FED. PROJ. NO. STATE FUNDS

## GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE 2014 EDITION OF THE MATERIAL LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION SHALL GOVERN.

## INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	GENERAL LAYOUT
4	ESTIMATED QUANTITIES
5	STANDARD PLATES AND CONSTRUCTION NOTES
6-7	EARTHWORK TABULATIONS
8-12	TABULATIONS
13-14	TYPICAL SECTIONS
15-19	DETAILS
20-24	STANDARD PLANS
25	ALIGNMENT TABULATION
26	UTILITY TABULATION
27-32	REMOVAL PLAN
33-38	CONSTRUCTION PLAN
39-44	PROFILE
45-50	TEMPORARY/PERMANENT EROSION CONTROL
51-52	SWPPP
53-54	NWI MAP
55-63	PERMANENT PAVEMENT MARKING PLAN
64-75	SIGNING PLAN
76-82	TRAFFIC CONTROL PLAN
X1-X46	CROSS SECTIONS



### DESIGN DESIGNATION

Design BESALS	2024	Design Speed	70 MPH
ADT (Current Year) 2014		Based on	STOPPING Sight Distance
ADT (Future Year)		Height of eye	3.5' Height of object 0.5'
DHV (Design Hr. Vol.)		% Design Speed not achieved at:	
D (Directional Distr.)		TO STA.	MPH
T (Heavy Commercial)		TO STA.	MPH

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER

PLAN	SCALES
PLAN	50'
PROFILE	50' HORIZ. 5' VERT.
INDEX MAP	2500'
GENERAL LAYOUT	



PROJECT LOCATION  
 COUNTY : LYON  
 DISTRICT : 8 - MARSHALL REGION

THIS PLAN CONTAINS 128 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: PEDERSON NATHAN LICENSE # 47634  
 DATE: SIGNATURE:  
 DESIGN SQUAD D. WELLER, J. VLAMINCK

RECOMMENDED FOR APPROVAL	DISTRICT TRANSPORTATION ENGINEER	20
RECOMMENDED FOR APPROVAL	DISTRICT MATERIALS ENGINEER	20
RECOMMENDED FOR APPROVAL	DISTRICT WATER RESOURCES/HYDRAULICS ENGINEER	20
RECOMMENDED FOR APPROVAL	DISTRICT TRAFFIC ENGINEER	20
RECOMMENDED FOR APPROVAL	STATE PRE-LETTING ENGINEER	20
OFFICE OF LAND MANAGEMENT APPROVAL	DIRECTOR, LAND MANAGEMENT	20
APPROVED	STATE DESIGN ENGINEER	20

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: LICENSE #  
 DATE: SIGNATURE:

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL  
 STATE PROJ. NO. CHARGE IDENTIFIER  
 4206-22

PLOTTED/REVISED: 16-JUN-2015

DISTRICT #: DB-WILLMAR  
 PLOT NAME: \\BWW\IT\SGSP\IP\BWW\DesPm\_HF5200b  
 PATH & FILENAME: IP\_PWP\1586157\0420622\_1.sldgn

PLOTTED/REVISED: 11-AUG-2015

DISTRICT #: D6-WILLMAR  
PLOT NAME: \\BWW\IT\SBS\PI\N\BWW\DesPrn\_HP5200b  
PATH & FILENAME: IP\_PWP-d16\0015\N420622\_wtl\_aer\roll.dgn



CERTIFIED BY *Andy Chan* LIC. NO. 47634 DATE: ??/??/??  
LICENSED PROFESSIONAL ENGINEER

WETLAND IMPACT AERIAL VIEW  
 STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 1 OF 2 SHEETS

PLOTTED/REVISED: 11-AUG-2015

DISTRICT #: DB-WILLMAR  
IPLOT NAME: \\8WILLIT\S85PWIP\N8W11DesPrn\_HPS200b  
PATH & FILENAME: IP\_PWP-d\60015\420622\_wfl\_aer\al12.dgn



CERTIFIED BY *Andy Chao* LIC. NO. 47634 DATE: ??/??/??  
LICENSED PROFESSIONAL ENGINEER

WETLAND IMPACT AERIAL VIEW  
 STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 2 OF 2 SHEETS

PLOTTED/REVISED: 11-AUG-2015

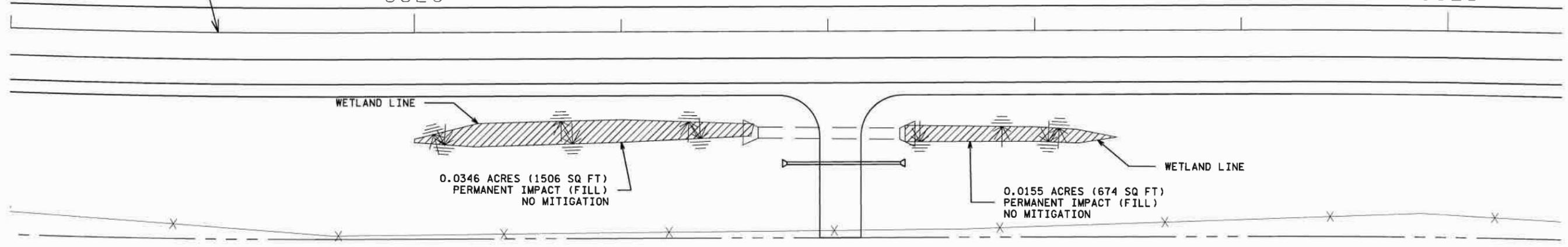


WETLAND IMPACT SITE 1  
TYPE 2 WET MEADOW WETLAND

☉ INP23

3320

3325

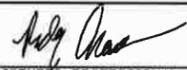


LEGEND

 WETLAND IMPACT FILL



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CERTIFIED BY  LIC. NO. 47634 DATE: ?/?/?

WETLAND IMPACT  
STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 1 OF 9 SHEETS

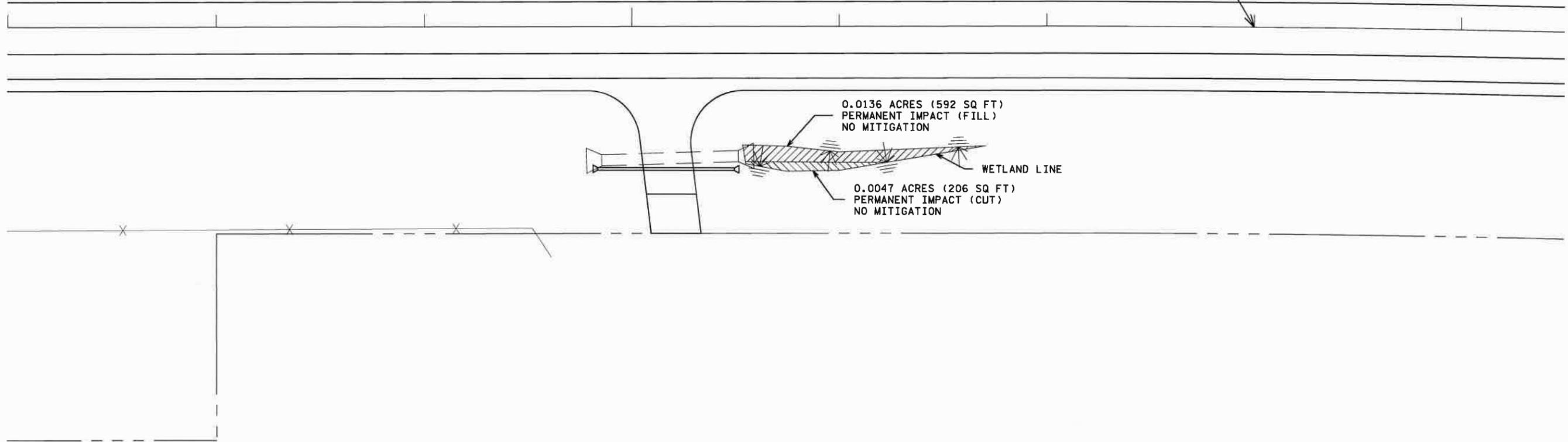
PLOTTED/REVISED: 11-AUG-2015



WETLAND IMPACT SITE 2  
TYPE 2 WET MEADOW WETLAND

3345

INP23

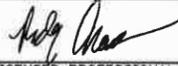


LEGEND

-  WETLAND IMPACT FILL
-  WETLAND IMPACT CUT

50  
SCALE IN FEET

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CERTIFIED BY  LIC. NO. 47634 DATE: ?/??/??  
LICENSED PROFESSIONAL ENGINEER

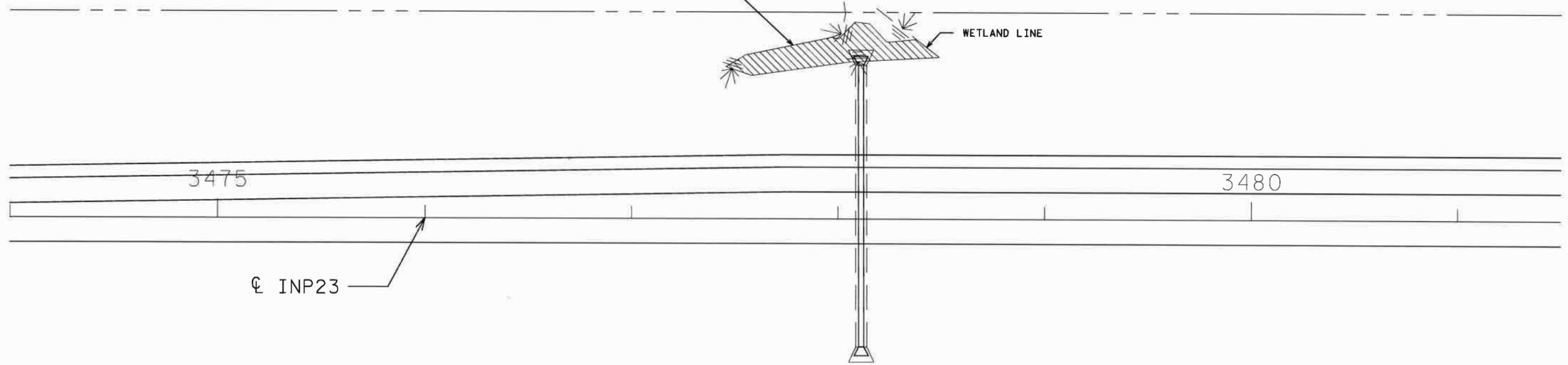
WETLAND IMPACT  
STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 2 OF 9 SHEETS

PLOTTED/REVISED: 11-AUG-2015

WETLAND IMPACT SITE 3  
TYPE 2 WET MEADOW WETLAND



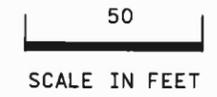
0.0256 ACRES (1114 SQ FT)  
PERMANENT IMPACT (CUT)  
NO MITIGATION



⊕ INP23

LEGEND

 WETLAND IMPACT CUT



SCALE IN FEET

DISTRICT #: D6-WILLMAR  
PLOT NAME: \\BWW\IT\TS85\FW\IP\N\BWW\IDesPrn\_HP5200b  
PATH & FILENAME: IP\_PWP.d\6\00\5\N\420622\_wf4.dgn

CERTIFIED BY   
LICENSED PROFESSIONAL ENGINEER LIC. NO. 47634 DATE: ?/??/??

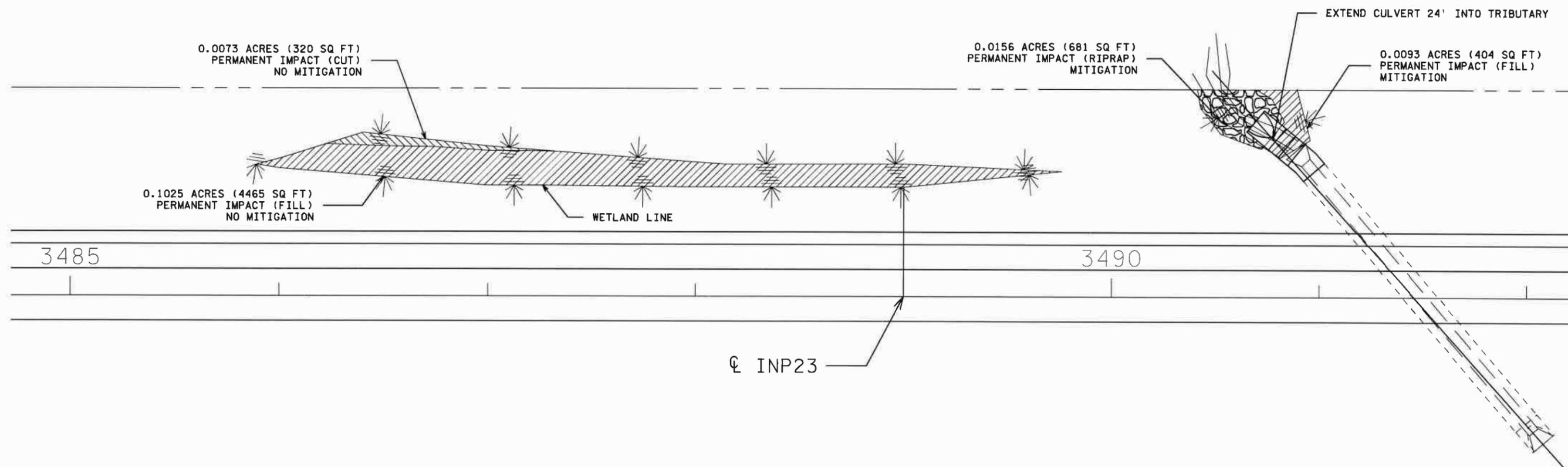
WETLAND IMPACT  
STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 3 OF 9 SHEETS

PLOTTED/REVISED: 11-AUG-2015



WETLAND IMPACT SITE 4  
TYPE 3/6 SHALLOW MARSH WETLAND

WETLAND IMPACT SITE 5  
TRIBUTARY + TYPE 3 SHALLOW MARSH WETLAND



LEGEND

- WETLAND IMPACT FILL
- WETLAND IMPACT CUT
- WETLAND IMPACT RIPRAP

50  
SCALE IN FEET

DISTRICT #: DB-WILLMAR  
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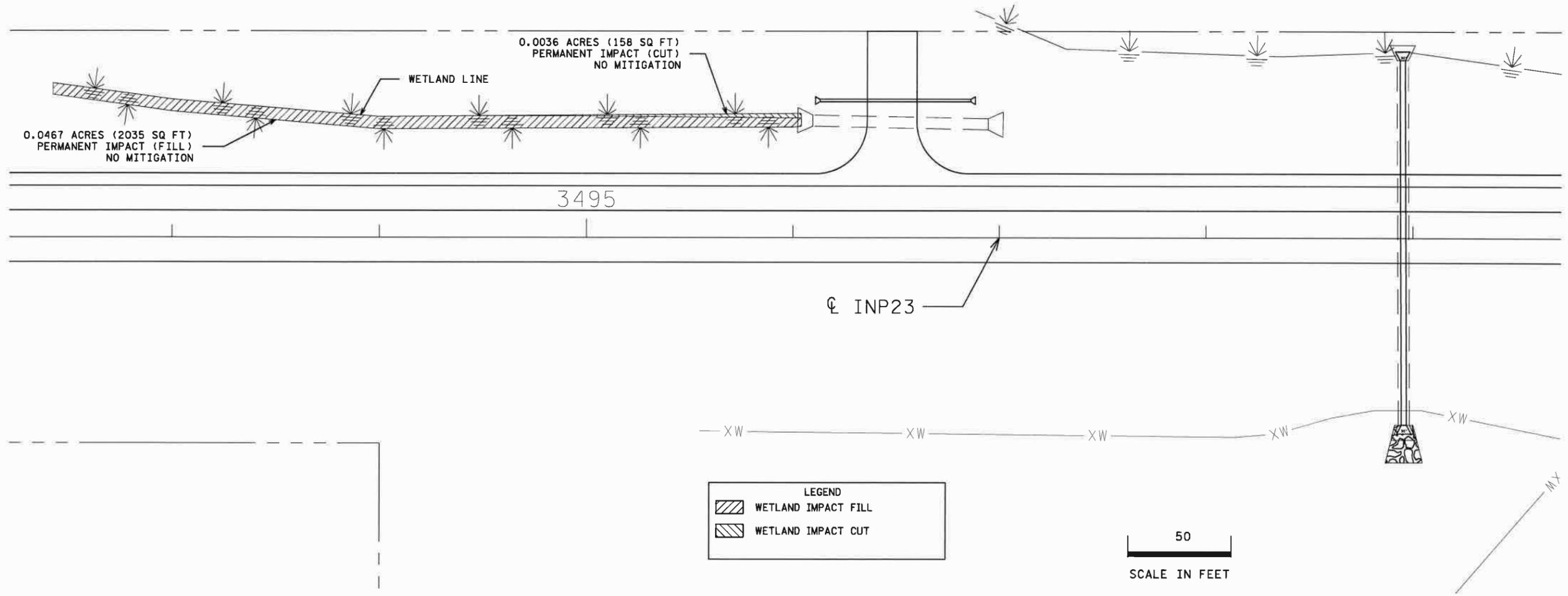
CERTIFIED BY *[Signature]* LIC. NO. 47634 DATE: ?/??/??  
LICENSED PROFESSIONAL ENGINEER

WETLAND IMPACT  
STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 4 OF 9 SHEETS

PLOTTED/REVISED: 11-AUG-2015

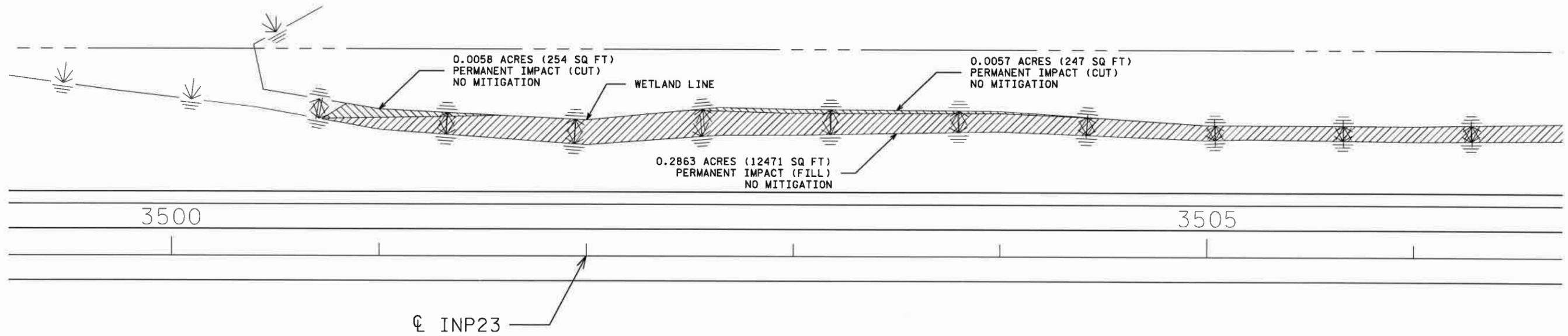
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WETLAND IMPACT SITE 6  
TYPE 2 WET MEADOW WETLAND

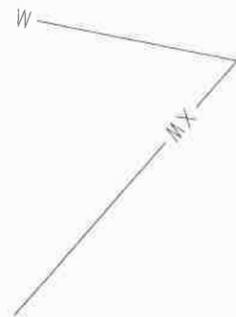


PLOTTED/REVISED: 11-AUG-2015

WETLAND IMPACT SITE 7  
TYPE 2 WET MEADOW WETLAND



DISTRICT #: D8-WILLMAR  
PLOT NAME: \\BWW\WLT\S85FW\IP\N8\W\I\DesPrn\_HPS200b  
PATH & FILENAME: IP\_PWP-d1610015\N420622\_wf7.dgn



LEGEND

- WETLAND IMPACT FILL
- WETLAND IMPACT CUT

50  
SCALE IN FEET

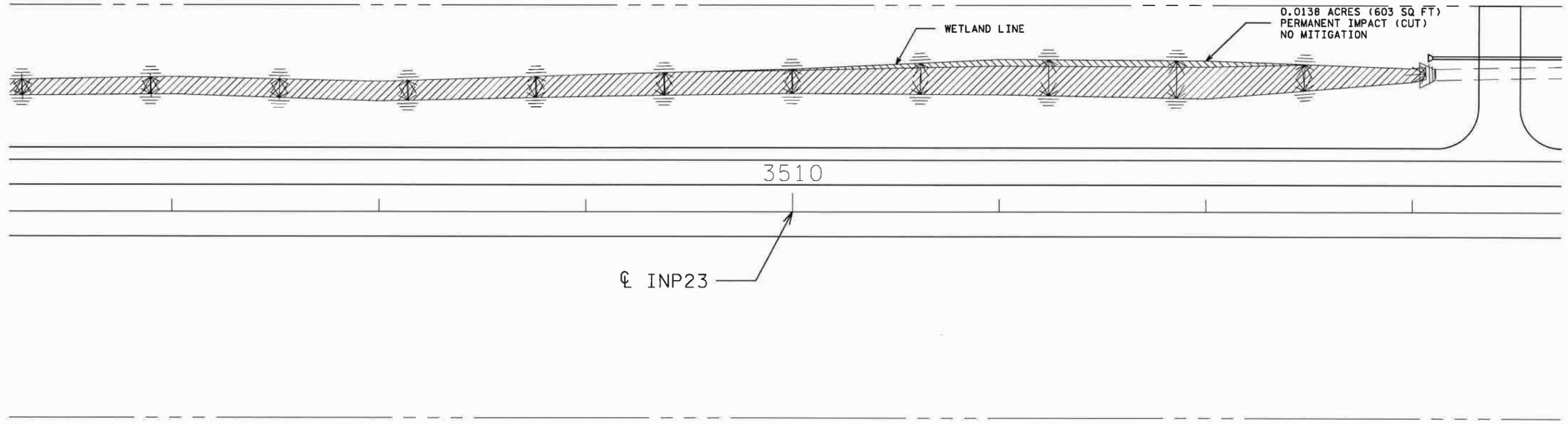
CERTIFIED BY  LIC. NO. 47634 DATE: ?/??/??  
LICENSED PROFESSIONAL ENGINEER

WETLAND IMPACT  
STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 6 OF 9 SHEETS

PLOTTED/REVISED: 11-AUG-2015

DISTRICT #: D8-WILLMAR  
PLOT NAME: \\BWW\IT\585FW\IP\BWW\DesPrn\_HP5200b  
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WETLAND IMPACT SITE 7  
TYPE 2 WET MEADOW WETLAND



LEGEND

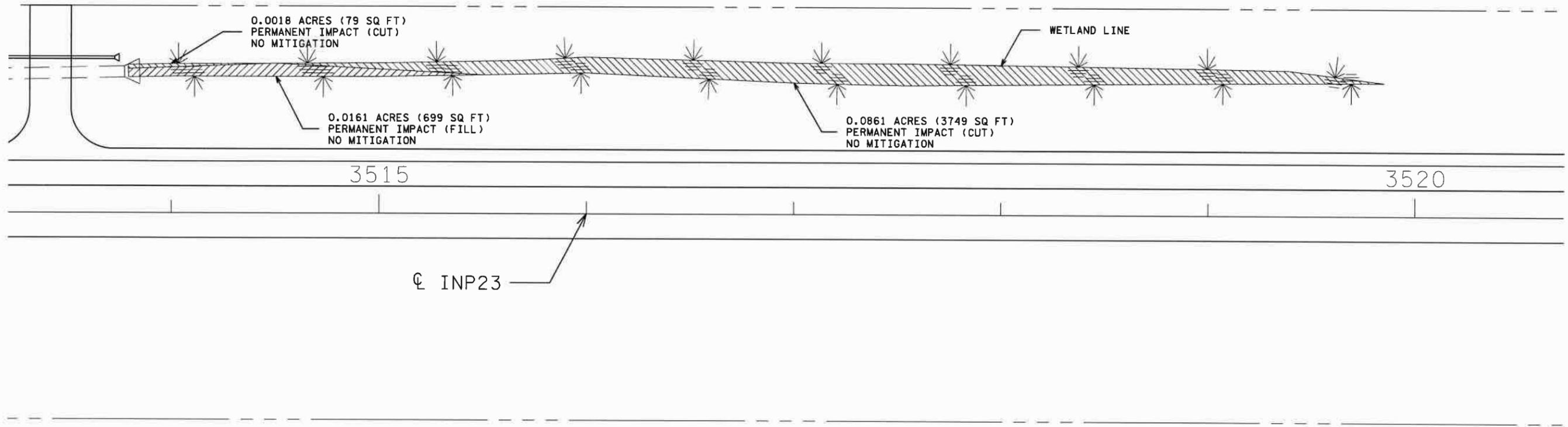
- WETLAND IMPACT FILL
- WETLAND IMPACT CUT

50  
SCALE IN FEET

CERTIFIED BY <small>LICENSED PROFESSIONAL ENGINEER</small>	LIC. NO. <u>47634</u> DATE: <u>??/??/??</u>	<b>WETLAND IMPACT</b> STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 7 OF 9 SHEETS
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PLOTTED/REVISED: 11-AUG-2015

WETLAND IMPACT SITE 8  
TYPE 2 WET MEADOW WETLAND



LEGEND

- WETLAND IMPACT FILL
- WETLAND IMPACT CUT

50  
SCALE IN FEET

DISTRICT #: DB-WILLMAR  
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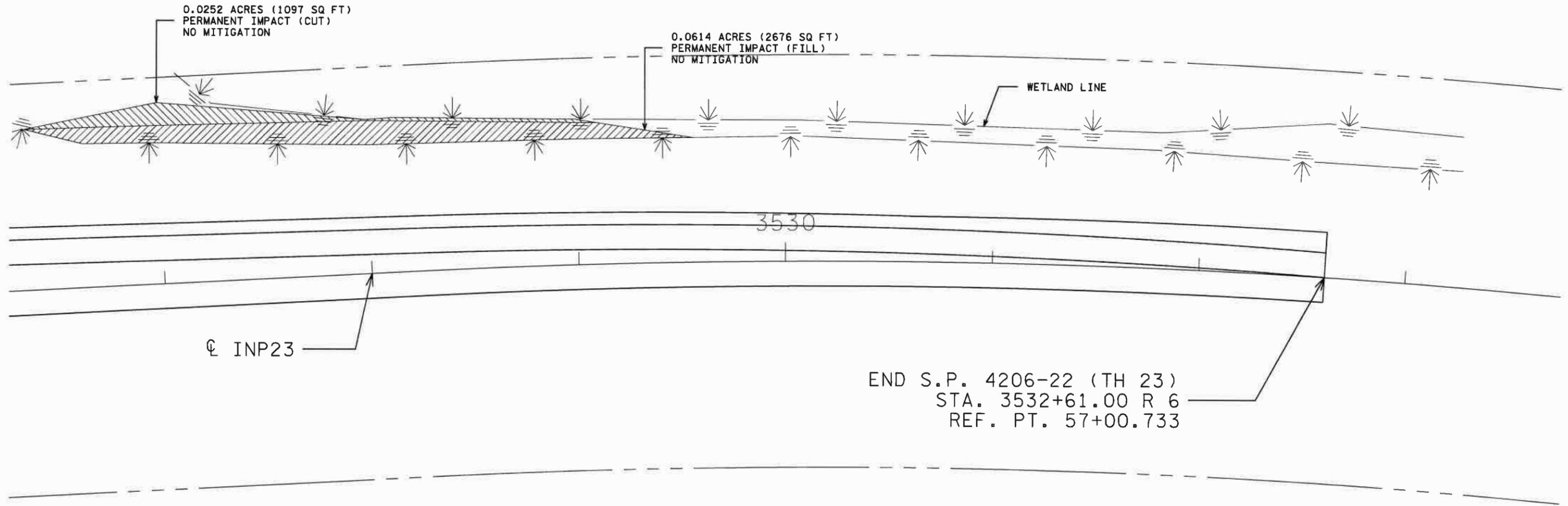
CERTIFIED BY LIC. NO. 47634 DATE: ?/??/??  
LICENSED PROFESSIONAL ENGINEER

WETLAND IMPACT  
STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 8 OF 9 SHEETS

PLOTTED/REVISED: 11-AUG-2015

DISTRICT #: DB-WILLMAR  
IPLOT NAME: \\BWW\WILT\S8SPW\IP\BWW\I\DesPrn\_HP5200b  
PATH & FILENAME: IP\_PWP-d\1610015\420622\_wf10.dgn

WETLAND IMPACT SITE 9  
TYPE 2 WET MEADOW WETLAND



LEGEND

- WETLAND IMPACT FILL
- WETLAND IMPACT CUT

50  
SCALE IN FEET

CERTIFIED BY <small>LICENSED PROFESSIONAL ENGINEER</small>	LIC. NO. 47634 DATE: ?/??/??	<b>WETLAND IMPACT</b> STATE PROJ. NO. 4206-22 (TH 23) SHEET NO. 9 OF 9 SHEETS
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