

## Information for File #2013-00955-CLJ

**Applicant:** Willis Hoyt, Koochiching County Highway Department  
**Corps Contact:** Craig L. Jarnot  
**Address:** 4111 Technology Drive, Suite 295, Bemidji MN, 56601  
**E-Mail:** Craig.L.Jarnot@usace.army.mil  
**Phone:** (218) 444-6381  
**Primary County :** Koochiching  
**Sec/Township/Range:** Section 4, Twp. 70N., R. 24W.  
**Information Complete On:** April 11, 2013  
**Posting Expires On:** May 3, 2013  
**Authorization Type:** LOP-05-MN (A)

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. The jurisdictional review determines the scope of the projects regulated impacts and compensatory mitigation requirements.

**PROJECT PURPOSE & NEED:** The purpose of the project is to reconstruct approximately one mile of County State Aid Highway (CSAH) 107 (SP 036-707-001) to meet state minimum design standards for a roadway with an Average Daily Traffic (ADT) of 379 vehicles. State Aid 8820.9920 Minimum Design Standards; Rural and Suburban Undivided; New or Reconstruction Projects for this category of projected ADT indicate a minimum lane width of 12 feet; minimum shoulder width of 4 feet; inslope of 1:4; clear zone of 15 feet; and a design speed of 40-60 MPH.

**PROJECT DESCRIPTION:** The Koochiching County Highway Department proposes to reconstruct CSAH 107 to a 40 MPH design with 12 foot traffic lanes and 6 foot shoulder widths (including four feet of pavement and the two foot concrete gutter). Curb and gutter, and storm sewer will be used to facilitate drainage rather than using a rural ditch. The use of curb & gutter will reduce right-of-way widths and environmental impacts. The paved shoulder is needed for safe pedestrian and bike travel use in this suburban location. To limit right-of-way and wetland impacts a six foot shoulder width was proposed rather than a typical eight foot urban shoulder width. The pavement will be a 10 ton structural design to facilitate local heavy commercial truck traffic.

The easterly end of CSAH 107 is proposed to be reconstructed on a new alignment to provide International Falls with a third east-west travel corridor between Trunk Highway 11/71 and Truck Highway 53. The other two routes are 11<sup>th</sup> street and 17<sup>th</sup> street.

**NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS:** The project would result in a total of 1.86 acres of impacts to Wooded Swamp (Type 7) wetlands. Of the 1.86 acres of impact, approximately 1.08 acres of wetland will be permanently impacted due to placement of fill (0.83 acres) and excavation (0.25 acres) associated with road reconstruction and realignment. The applicant has indicated that clearing and grubbing will be required for temporary stockpiling of trees and soil which will result in approximately 0.78 acres of temporary impact to Wooded Swamp (Type 7) wetland.

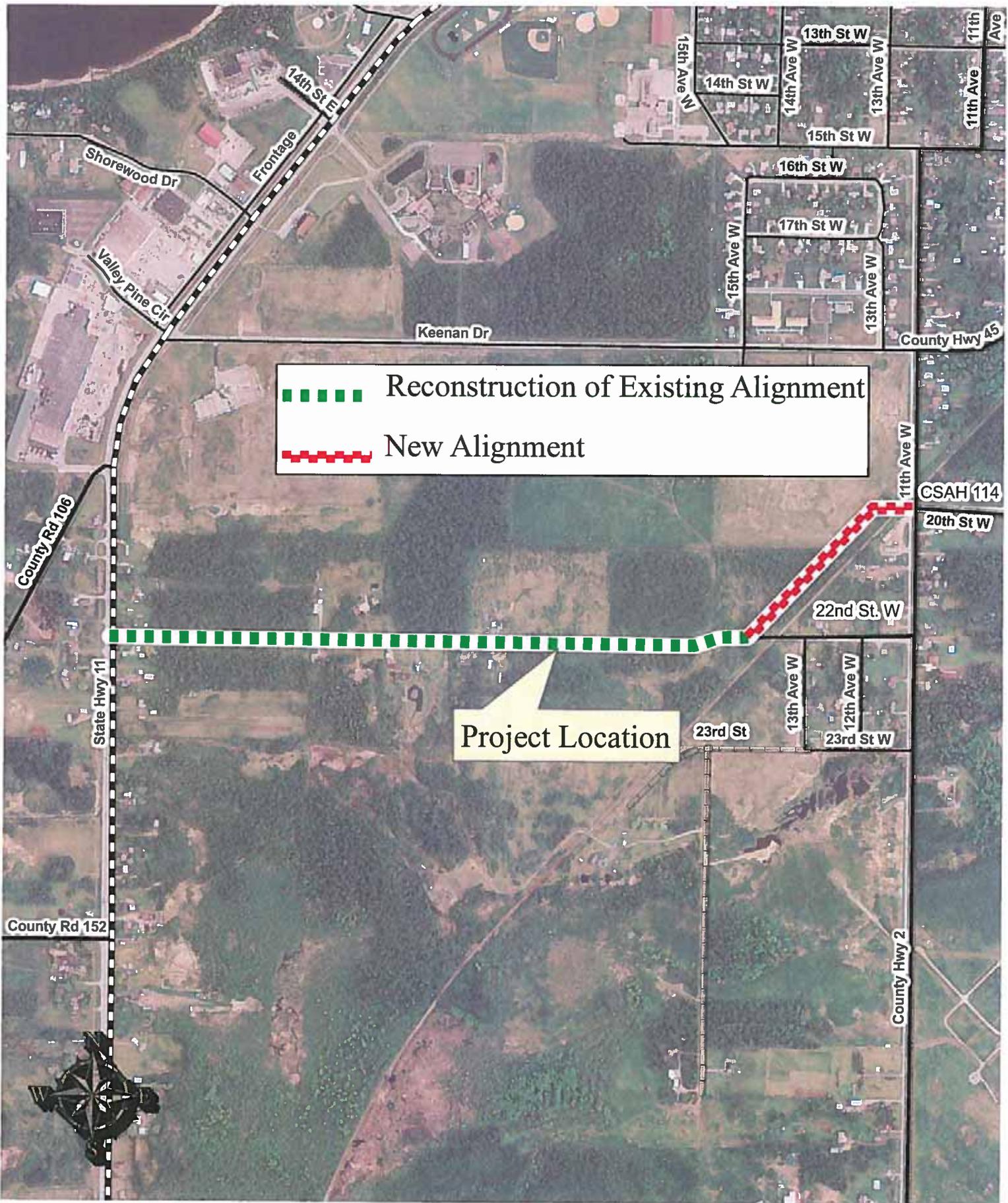
**ALTERNATIVES CONSIDERED:**

The no-build alternative would avoid all impacts to wetlands; however, the no-build alternative was dismissed as it would not meet the project purpose to improve road conditions to state design standards.

The applicant originally proposed a rural design with ditches. However, an urban section was considered a better option when it was found that the extremely flat terrain could only provide for a 0.08% grade in the ditches which would not drain and would create standing water conditions. The impact on the adjacent property owners with large evergreen trees is substantially less with an urban design as the applicant would be staying within its right-of-way.

**COMPENSATORY MITIGATION:** The applicant has proposed to provide compensatory mitigation for the permanent wetland impacts by debiting wetland credits from the MN Board of Water and Soil Resources Road Replacement Program mitigation bank.

**Drawings:** 2013-00955-CLJ 1 of 7 through 7 of 7. See attached

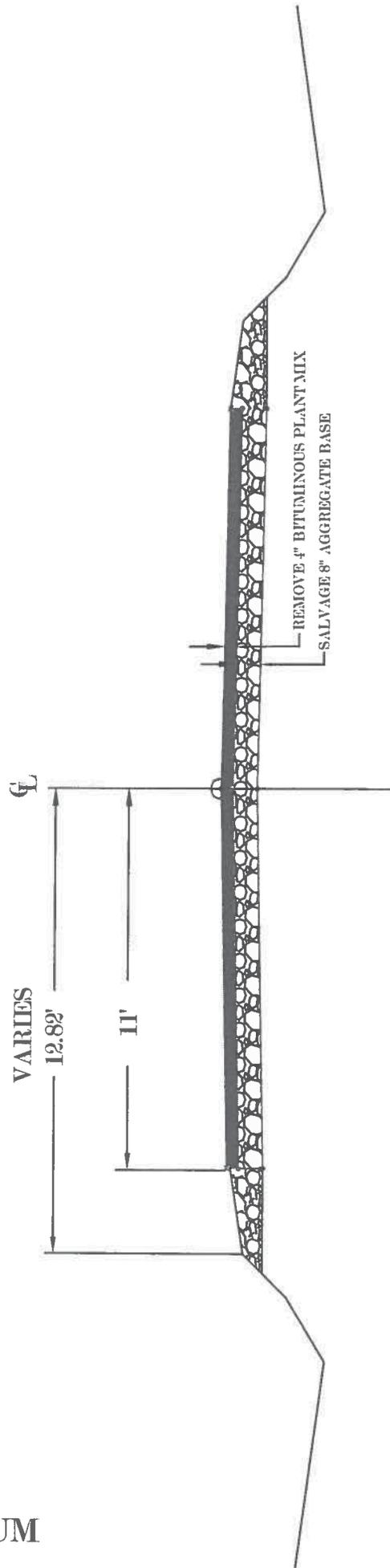


County State Aid Highway 107 (CSAH 107) Reconstruction  
 Koochiching County, MN  
 S.P. 036-707-001

T70N R24W S4

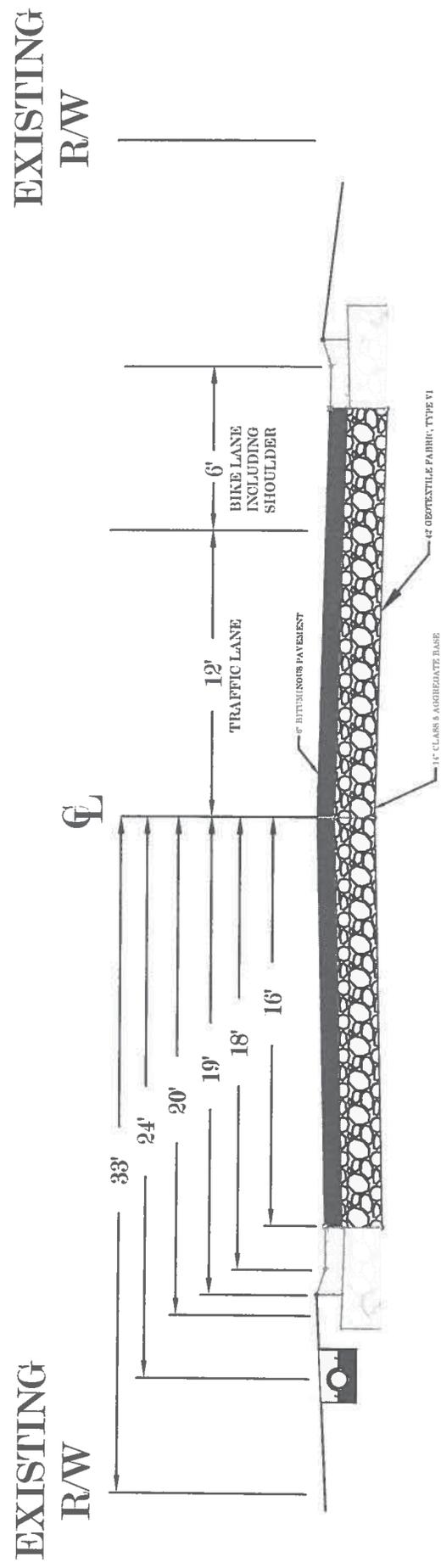
March 15, 2013

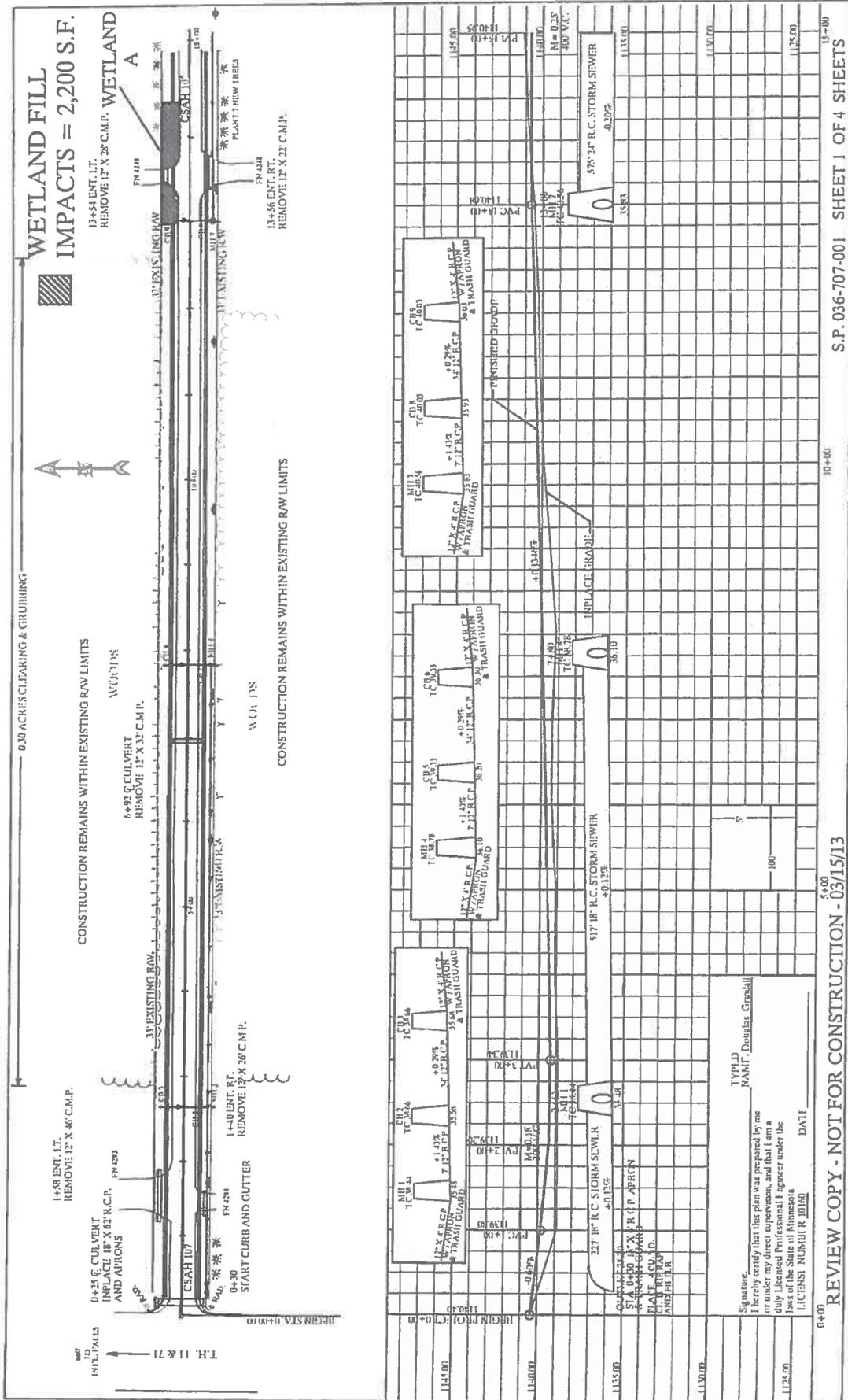
# EXISTING ROAD TYPICAL CROSS SECTION



# PROPOSED ROAD TYPICAL CROSS SECTION

S.P. 036-707-001  
PROJECT MEMORANDUM  
APRIL 2013





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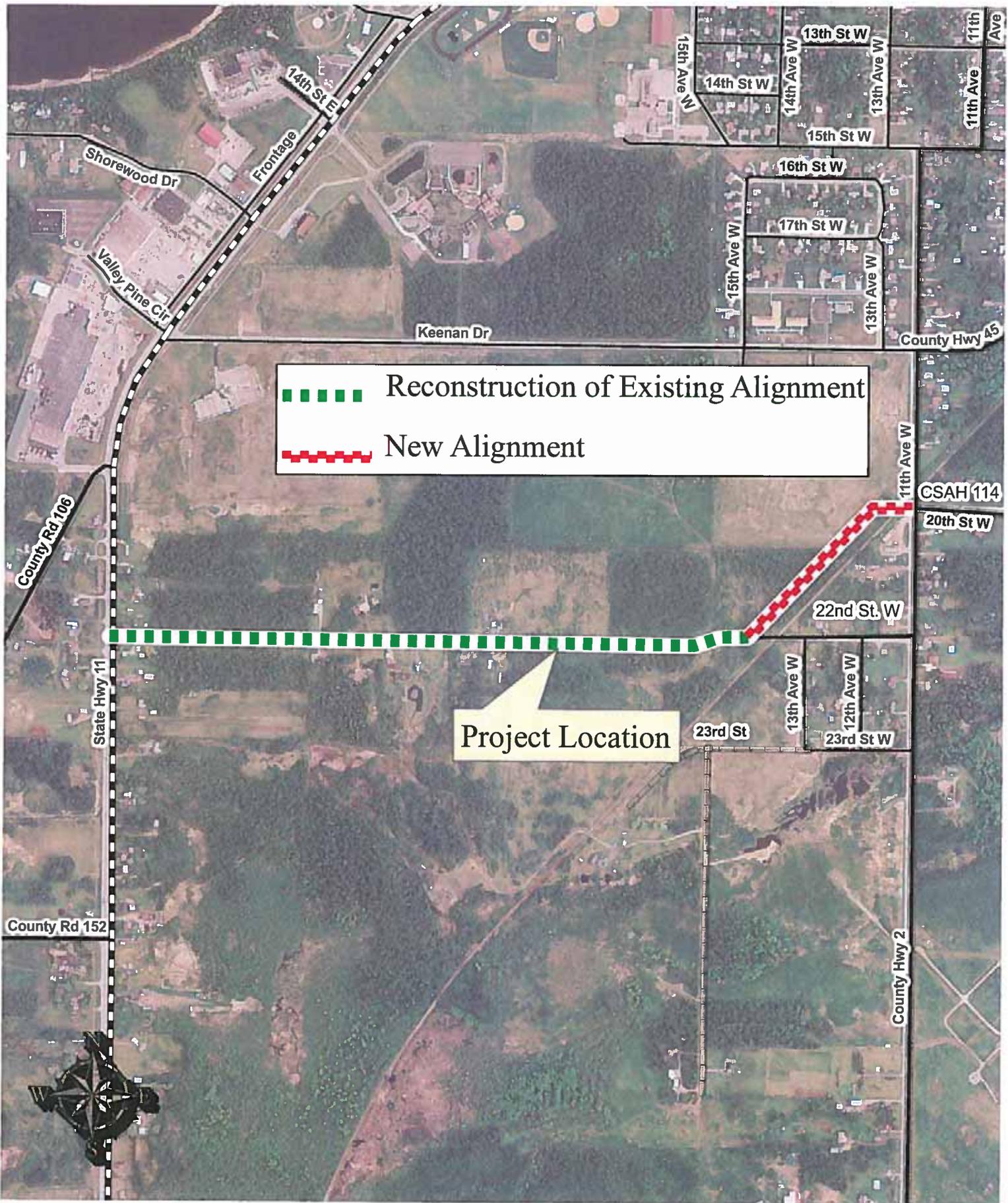
REVIEW COPY - NOT FOR CONSTRUCTION - 03/15/13  
 S.P. 036-707-001 SHEET 1 OF 4 SHEETS

Signature: \_\_\_\_\_  
 TYPED NAME: Douglas Grudahl  
 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  
 LICENSE NUMBER: 10166  
 DATE: \_\_\_\_\_







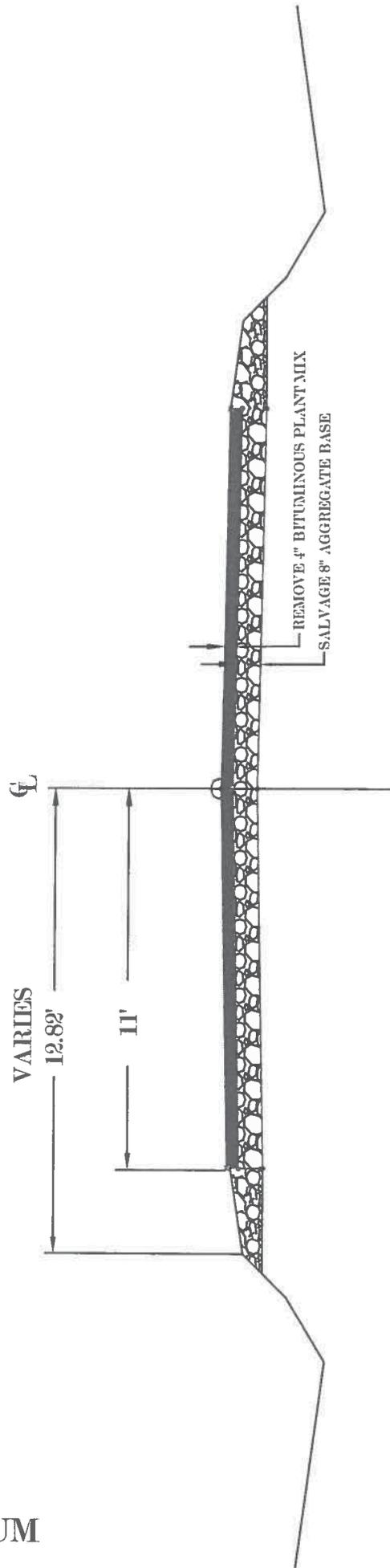


County State Aid Highway 107 (CSAH 107) Reconstruction  
 Koochiching County, MN  
 S.P. 036-707-001

T70N R24W S4

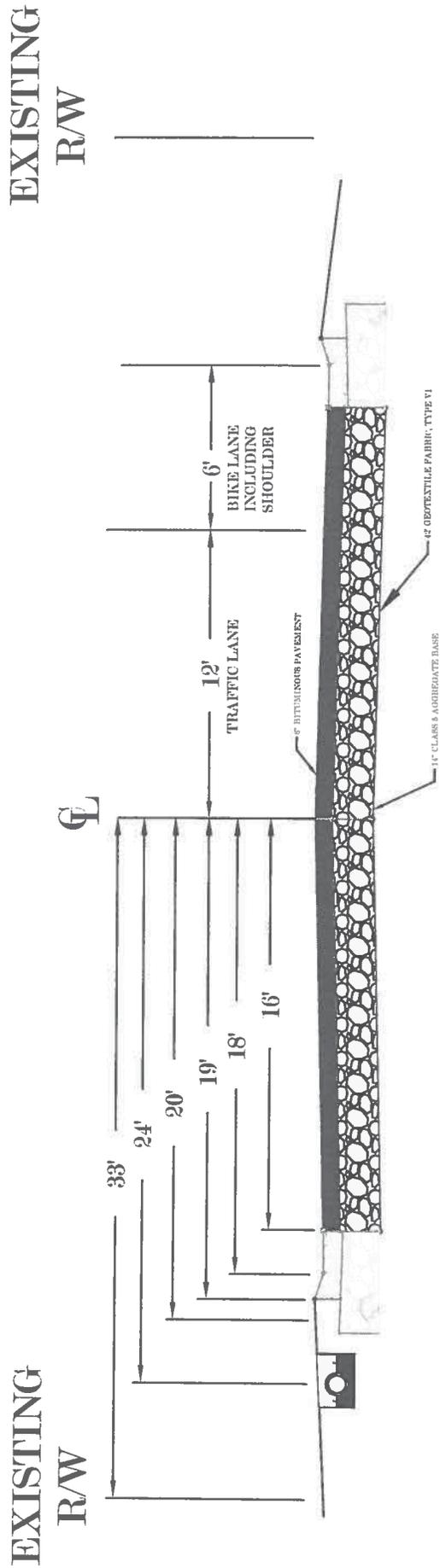
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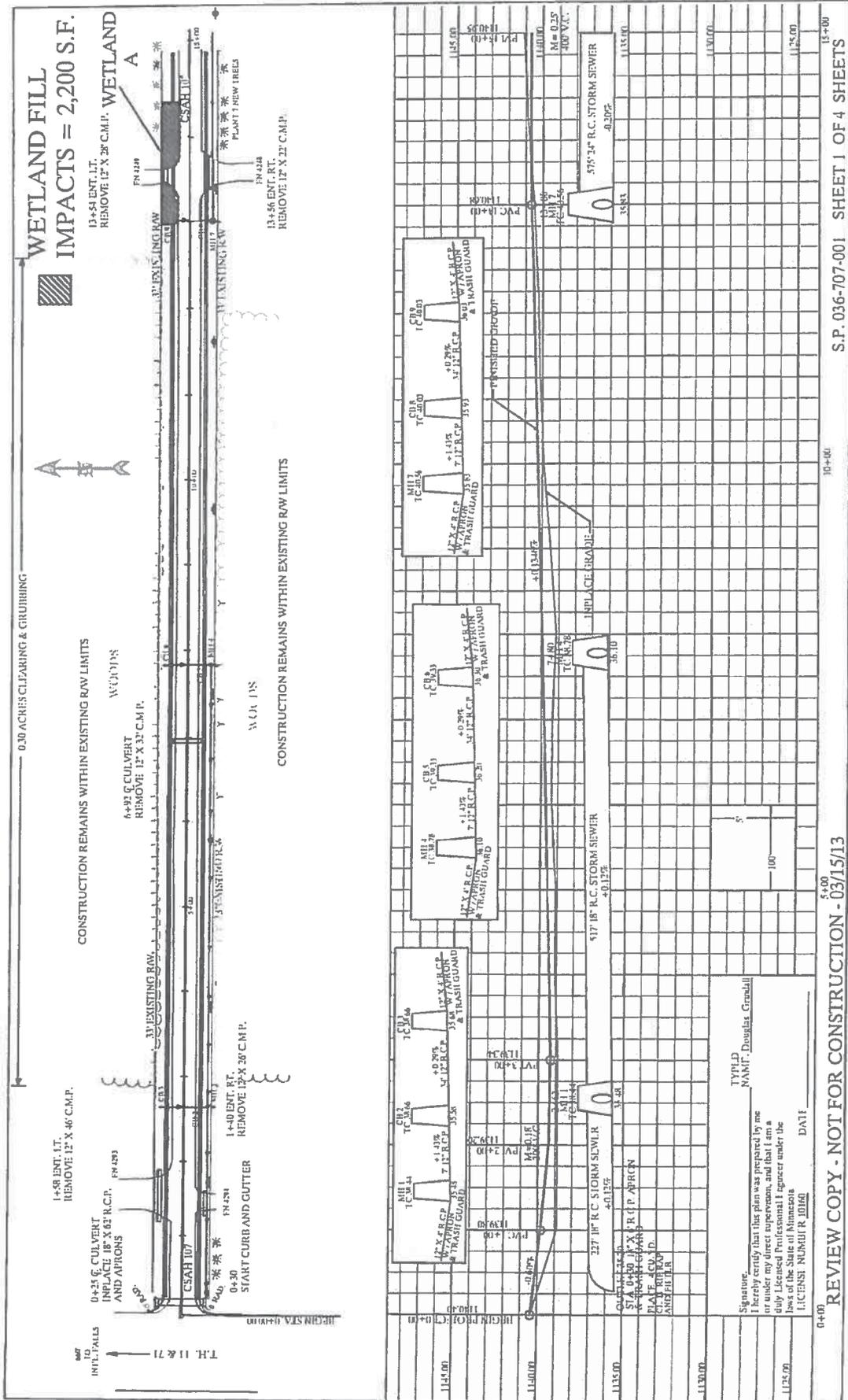
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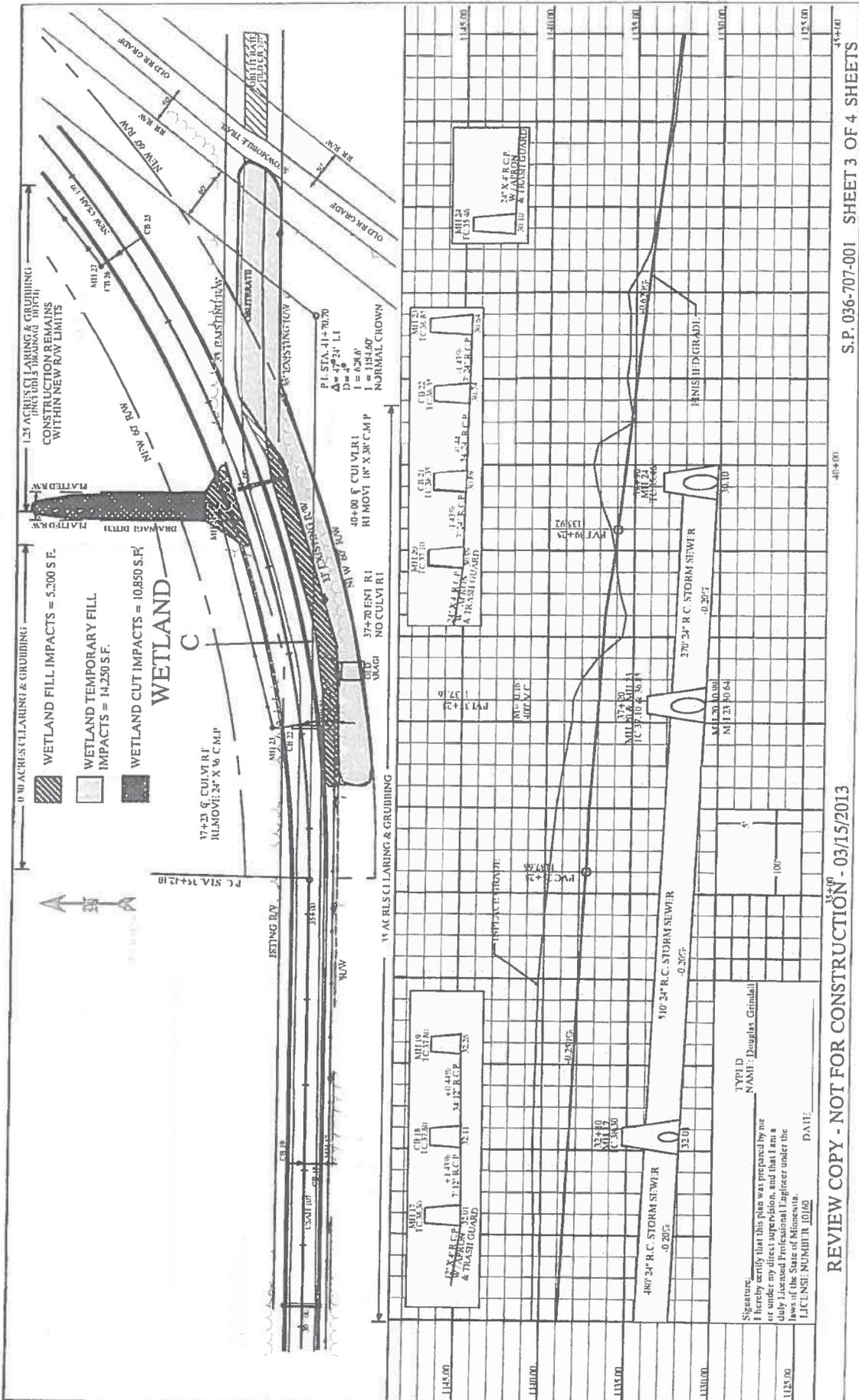
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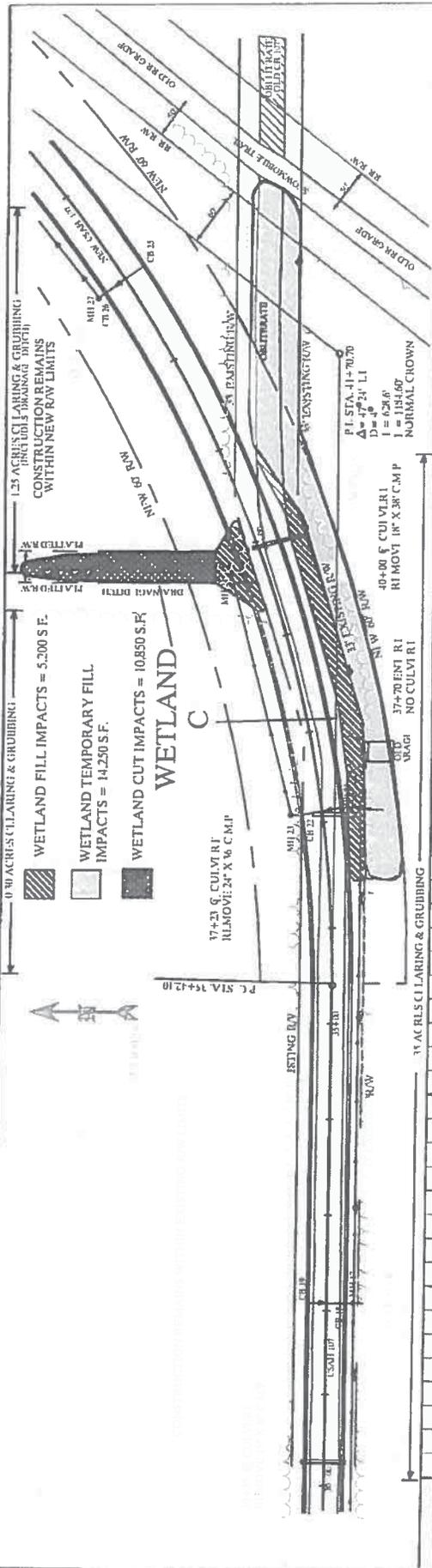
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 LICENSE NUMBER: 10166  
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0.70 ACRES CUTLARING & GRUBBING  
 WETLAND FILL IMPACTS = 5,200 S.F.  
 WETLAND TEMPORARY FILL IMPACTS = 14,250 S.F.  
 WETLAND CUT IMPACTS = 10,850 S.F.

**WETLAND C**



REVIEW COPY - NOT FOR CONSTRUCTION - 03/15/2013  
 S.P. 036-707-001 SHEET 3 OF 4 SHEETS

Signature: \_\_\_\_\_  
 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.  
 LICENSE NUMBER: 10160  
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 TYPE D  
 NAME: Douglas Grindahl

