

Information for File #2008-04424-NTD

Applicant: Shawano County Highway Department

Corps Contact: Nick Domer, U. S. Army Corps of Engineers, 211 North Broadway, Suite 221, Green Bay, Wisconsin 54303; nicholas.t.domer@usace.army.mil; (920) 448-2824.

Primary County: Shawano

Location: Sections 22, 23, 26, 27, 34 and 35, Township 27N, Range 13E

Information Complete On: 2-19-2013

Posting Expires On: 5-18-2013

Authorization Type: Section 404 Letter of Permission

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 may be made prior to reaching a permit decision, if an approved determination is made, it will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>

PROJECT DESCRIPTION AND PURPOSE: The Shawano County Highway Department has applied for a Department of the Army permit to discharge dredged and fill material into waters of the United States to reconstruct a 1.7 mile segment of CTH G from Stefl Lane to STH 29. The purpose of the project is to reconstruct the deteriorated roadway to improve safety and to comply with current rural roadway design standards.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: Approximately 1.13 acres of hardwood swamp wetlands and 0.4 acre of wet meadow wetlands would be permanently filled as a result of the proposed road reconstruction project. Temporary discharges of dredged and fill material would also occur along 70 linear feet of an unnamed tributary to the North Branch Embarrass River for the replacement of an existing culvert.

ALTERNATIVES CONSIDERED: The no-build alternative would avoid impacts to wetlands; however the alternative was eliminated by the applicant because it failed to

address the need and purpose of the project. Additional alternatives considered and dismissed by the applicant include:

- Reconstruction without widening the footprint of the roadway.
- Construction of a new roadway at an alternative location.

Reconstruction of the roadway without widening the footprint was eliminated by the applicant because this alternative would not meet current design standards. To comply with current highway standards, the shoulders need to be widened. Construction of a new roadway at a different location was dismissed because environmental impacts and construction costs would be much greater than the applicants preferred alternative.

The applicant's preferred alternative involves reconstructing the roadway without changes to the current alignment. The profile would be re-graded to increase sight distances and the 2-3 foot shoulders would be widened to 6 feet to comply with AASHTO standards. The existing 11 foot travel lanes would remain unchanged. During the design process, efforts were made to avoid and minimize wetland impacts. Following a review of the initial design, the applicant lowered the road profile and steepened side slopes, which eliminated impacts to 0.455 acres of wetland.

COMPENSATORY MITIGATION: To compensate for unavoidable adverse impacts to wetlands, the Shawano County Highway Department proposes to debit 1.354 Wooded Swamp credits and 0.050 Wet Meadow credits from the Shawano County Highway Department consolidated mitigation site (Muck Site) located in Shawano County, Wisconsin. The planned replacement ratio is 1.2:1 (1.2 credits debited for every 1 acre of wetland impacted).

DRAWINGS: See attached.

PROJECT ID: XXXX-XX-XX
WITH: N/A

COUNTY: SHAWANO

ORDER OF SHEETS

- Section No. 1 Title
- Section No. 2 Typical Sections and Details
- Section No. 3 Estimate of Quantities
- Section No. 3 Miscellaneous Quantities
- Section No. 4 Right of Way Plat
- Section No. 5 Plan and Profile
- Section No. 6 Standard Detail Drawings
- Section No. 7 Sign Plates
- Section No. 8 Structure Plans
- Section No. 9 Computer Earthwork Data
- Section No. 9 Cross Sections

TOTAL SHEETS = ---

SHAWANO COUNTY HIGHWAY DEPARTMENT

PLAN OF PROPOSED IMPROVEMENT

CTH G

STEFL LANE - STH 29

SHAWANO COUNTY



DESIGN DESIGNATION CTH G

A.A.D.T. (2013)	=	807
A.A.D.T. (2033)	=	1,086
T. (DHV)	=	6%
DESIGN SPEED	=	60 MPH
ESALS	=	116,800

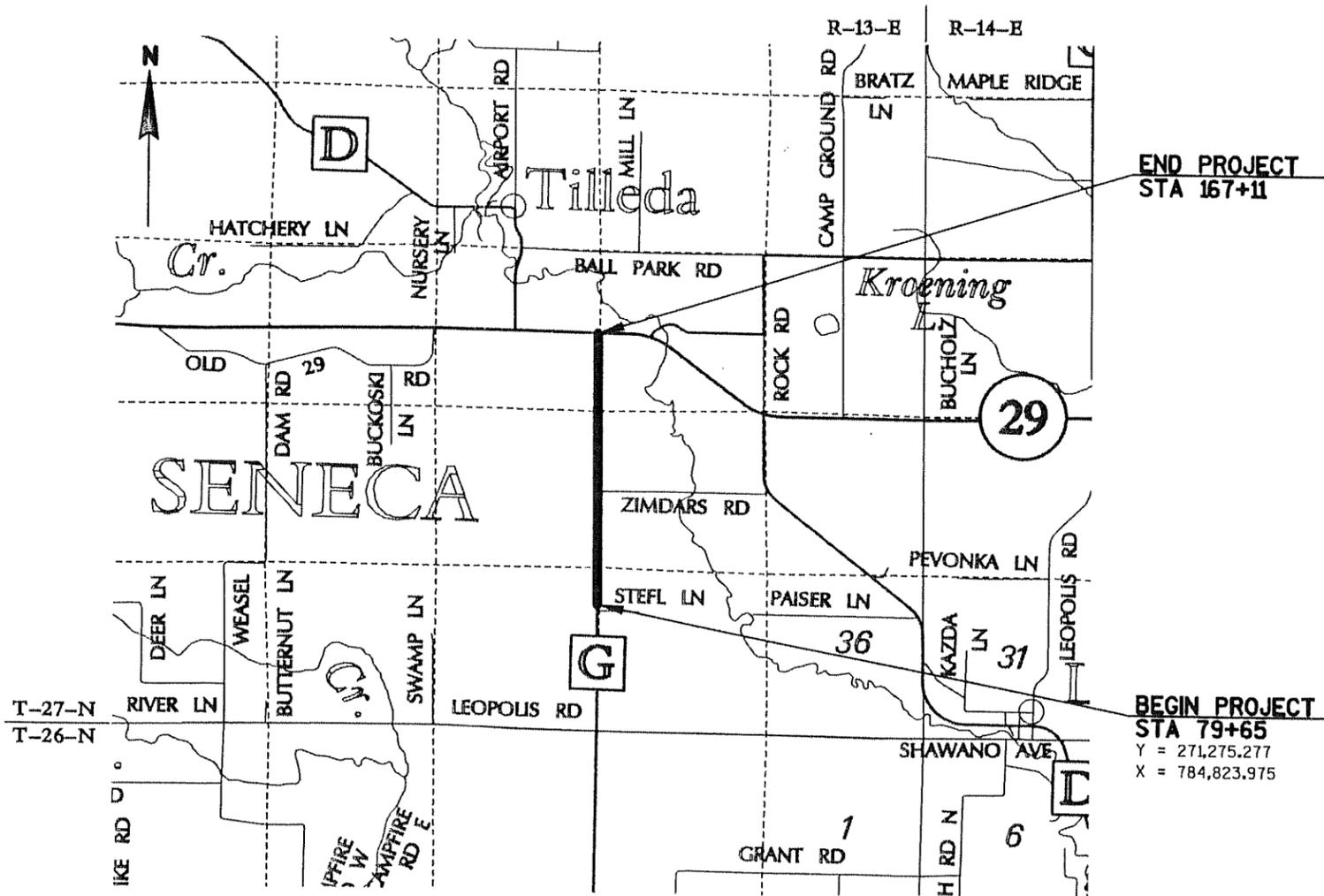
CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such)
- SPECIAL DITCH
- GRADE ELEVATION
- CULVERT (Profile View)
- UTILITIES
 - ELECTRIC
 - FIBER OPTIC
 - GAS
 - SANITARY SEWER
 - STORM SEWER
 - TELEPHONE
 - WATER
 - UTILITY PEDESTAL
 - POWER POLE
 - TELEPHONE POLE



END PROJECT
STA 167+11

BEGIN PROJECT
STA 79+65
Y = 271,275.277
X = 784,823.975

LAYOUT
SCALE 0 1/2 MI. 1 MI.
TOTAL NET LENGTH OF CENTERLINE = 1.649 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SHAWANO COUNTY, NAD 1983 (91)
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (91)

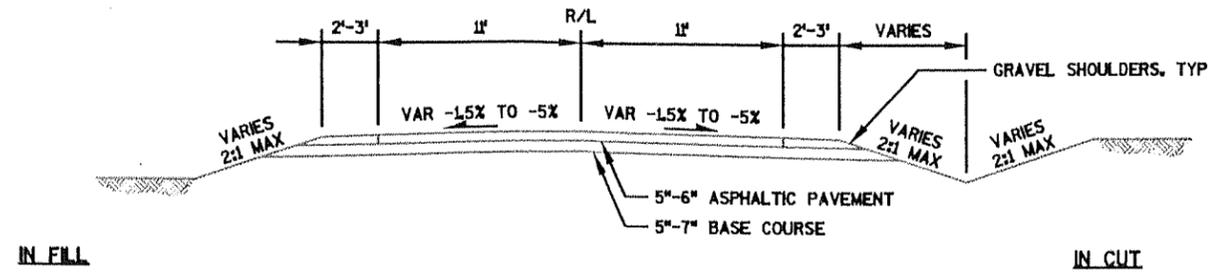
ORIGINAL PLANS PREPARED BY

PREPARED BY

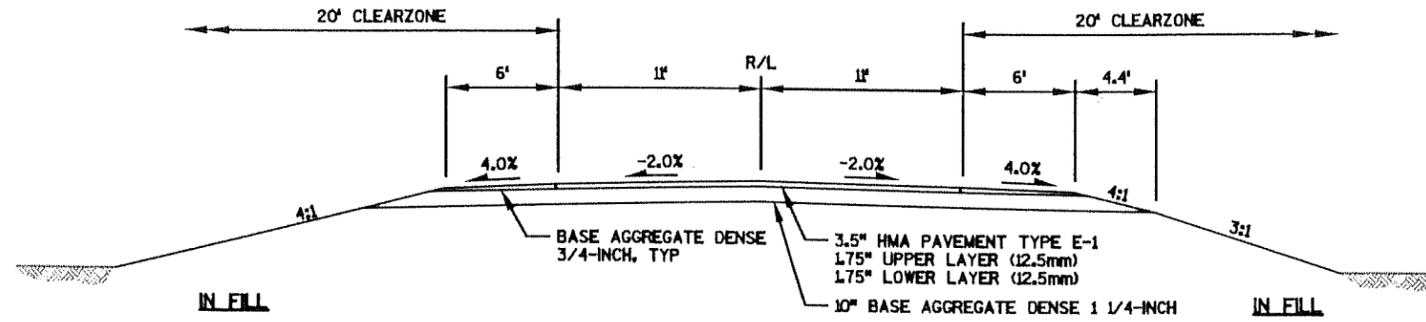
Surveyor	OMNI ASSOCIATES, INC
Designer	OMNI ASSOCIATES, INC
Project Manager	DAVID GALE, P.E.

APPROVED FOR SHAWANO COUNTY

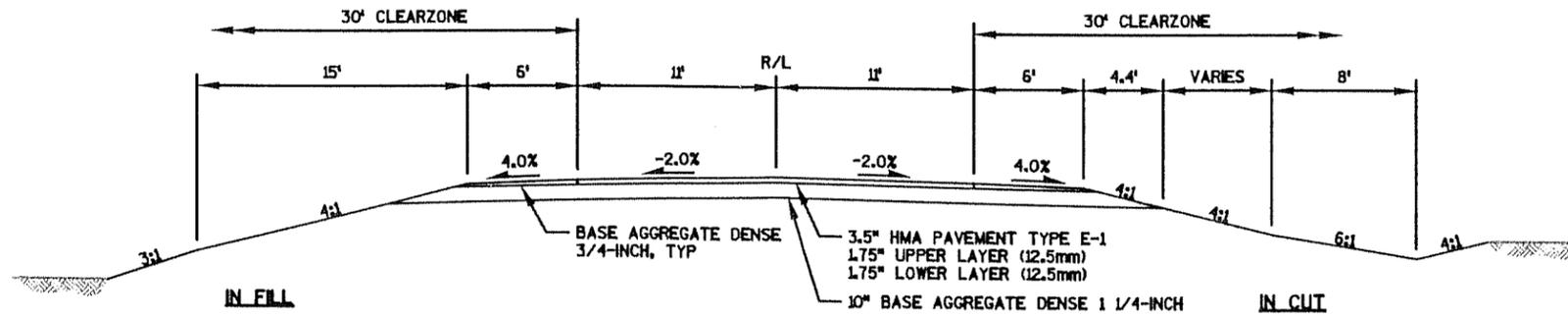
DATE: _____ (Signature)



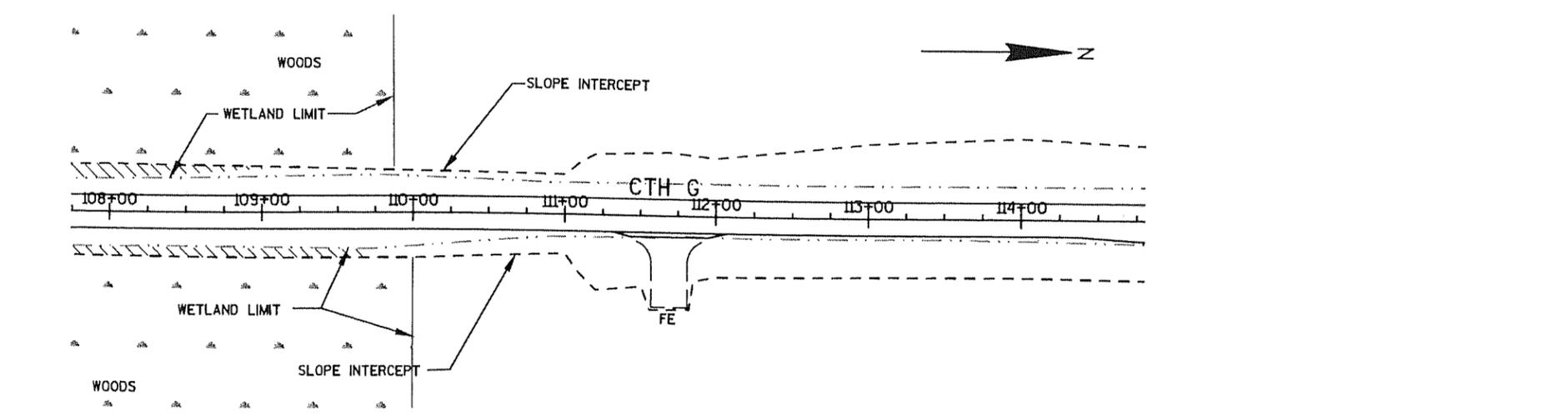
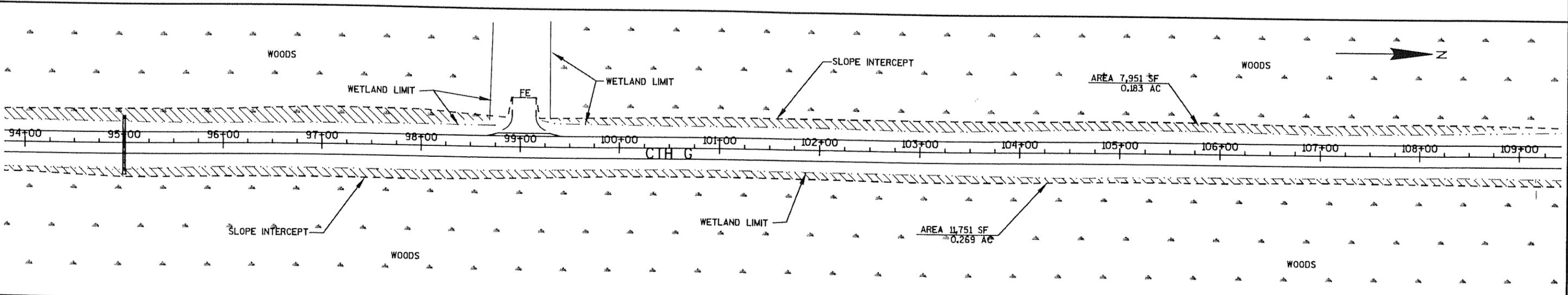
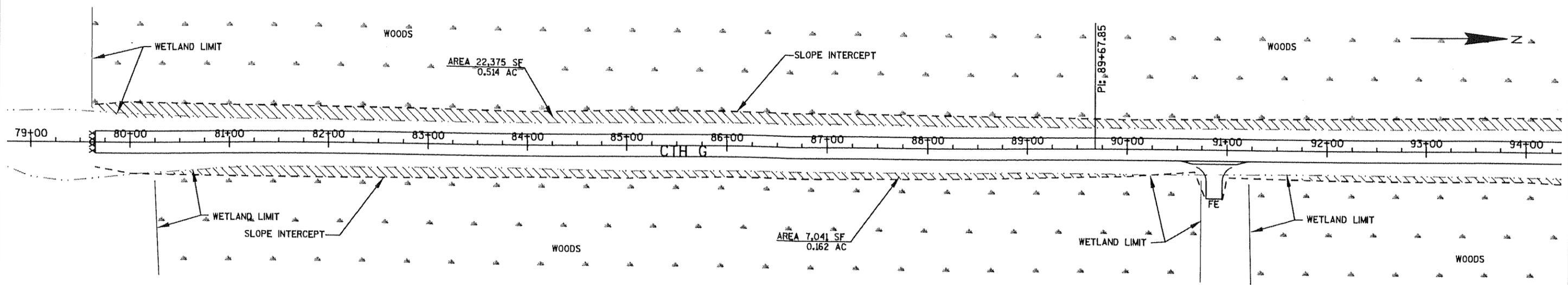
TYPICAL EXISTING SECTION - CTH 'G'
 STA 79+65 TO STA 167+11



TYPICAL FINISHED SECTION - CTH 'G'
 STA 79+65 TO STA 111+00

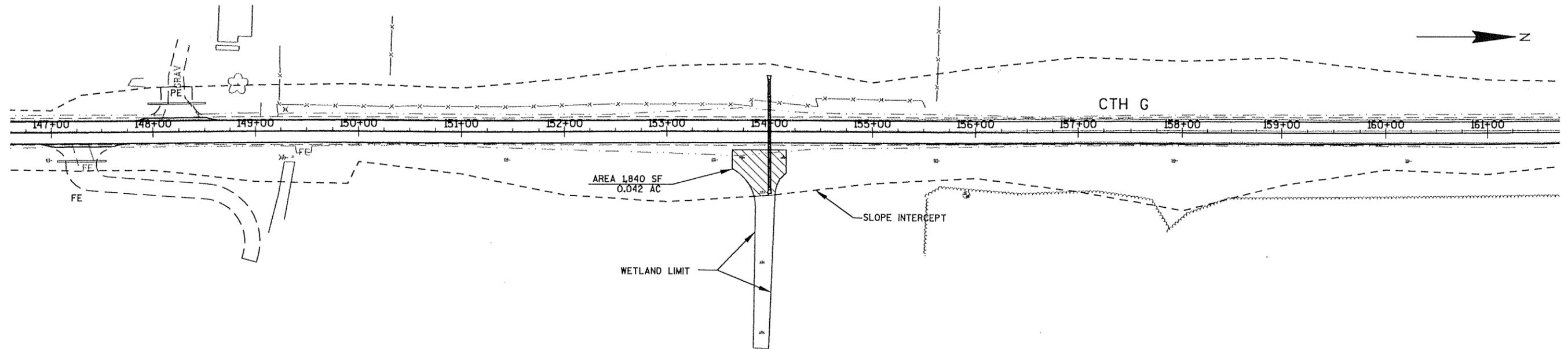


TYPICAL FINISHED SECTION - CTH 'G'
 STA 111+00 TO STA 167+11



WETLAND AREAS

LOCATION	SF	ACRES
LEFT	30,326	0.697
RIGHT	18,792	0.431
TOTAL	49,118	1.128



PROJECT NO: E2051A12

HWY: CTH G

COUNTY: SHAWANO

CTH G (STEFL LANE TO STH 29)

SHEET

E