

Information for File # MVP-2013-00026-JCD

Applicant: Kandiyohi County Public Works Division

Corps Contact: Jessie C. Diaz

Address: 180 Fifth Street East, Suite 700; Saint Paul, MN 55101

E-Mail: Jessie.C.Diaz@USACE.army.mil

Phone: 651-290-5975

Primary County: Kandiyohi County

Section: 18 & 19

Township: 121 North

Range: 33 West

Information Complete On: April 11, 2013

Posting Expires On: April 29, 2013

Authorization Type: MN-LOP-05

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.

Project Description and Purpose:

The Kandiyohi County Public Works Department is proposing to reconstruct approximately 1.13 miles of County State Aid Highway (CSAH) 4 from 0.39 miles south of County Road (CR) 130 to CSAH 40. The purpose of the project is to bring the roadway into compliance with the current safety and design standards, and to improve current pavement deficiencies.

The new centerline of CSAH 4 will be shifted slightly to the west to avoid interference with the transmission line located on the east side of the highway. The project would also include culvert work, including: repair, extension, or replacement, shoulder widening

with ditch grading, and slope flattening. Soils unsuitable for road stability would be replaced with suitable soils excavated from within the project limits.

The existing roadway has several geometric deficiencies including, steep in-slopes and narrow shoulders. Current road in-slopes are at a 3:1 ratio, which is steeper than allowed by State Aid geometric standards. The road in-slopes would be reconstructed at a 4:1 ratio, with back-slopes mostly at a 5:1 ratio, and shoulder widths would be increased from 2 feet to 6 feet. The existing roadway also has visible pavement deficiencies, such as cracking and excessive patching, and is in need of replacement.

The Kandiyohi County Public Works Department has considered two alternatives: Alternative 1 – No Build Alternative – This alternative would leave CSAH 4 as a deteriorating highway with very steep road slopes. Soon the pavement would not be drivable.

Alternative 2 – Rebuild but keep the same alignment – This alternative would impact the transmission line poles located on the eastern edge of the construction corridor. This would cost the county hundreds of thousands of dollars to relocate the utility.

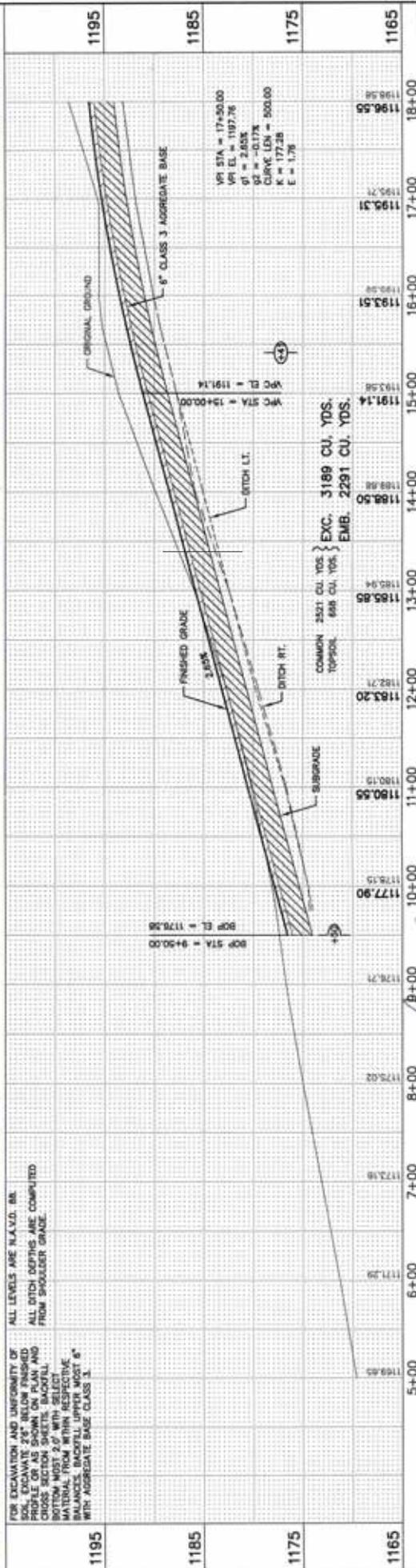
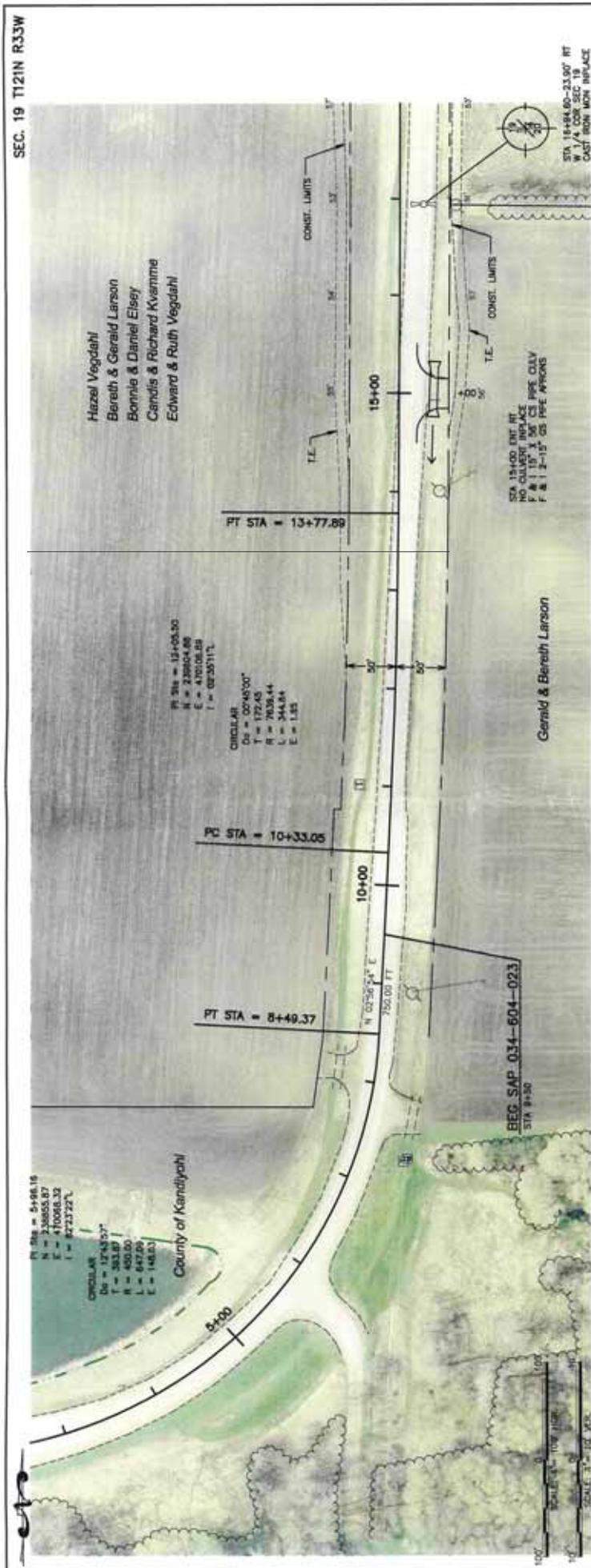
The project would result in the discharge of dredged and fill material into 0.83 acre of fresh (wet) meadow (Type 2) wetland, 0.36 acre of shallow marsh (Type 3) wetland, and 0.04 acre of deep marsh (Type 4) wetland, for a total of 1.23 acres of wetland impact.

The applicant proposes to minimize wetland impacts along the project corridor through the use of erosion control devices, and by increasing the slopes along the wetland areas from a 4:1 to a 3:1 ratio at the 27 foot safety clear zone.

To fulfill compensatory mitigation requirements, the applicant proposes to debit 2.46 acres of new wetland credits in bank service area (BSA) 7 or 9 from the Board of Water and Soil Resources (BWSR) Road Replacement Program.

Drawings See attached.





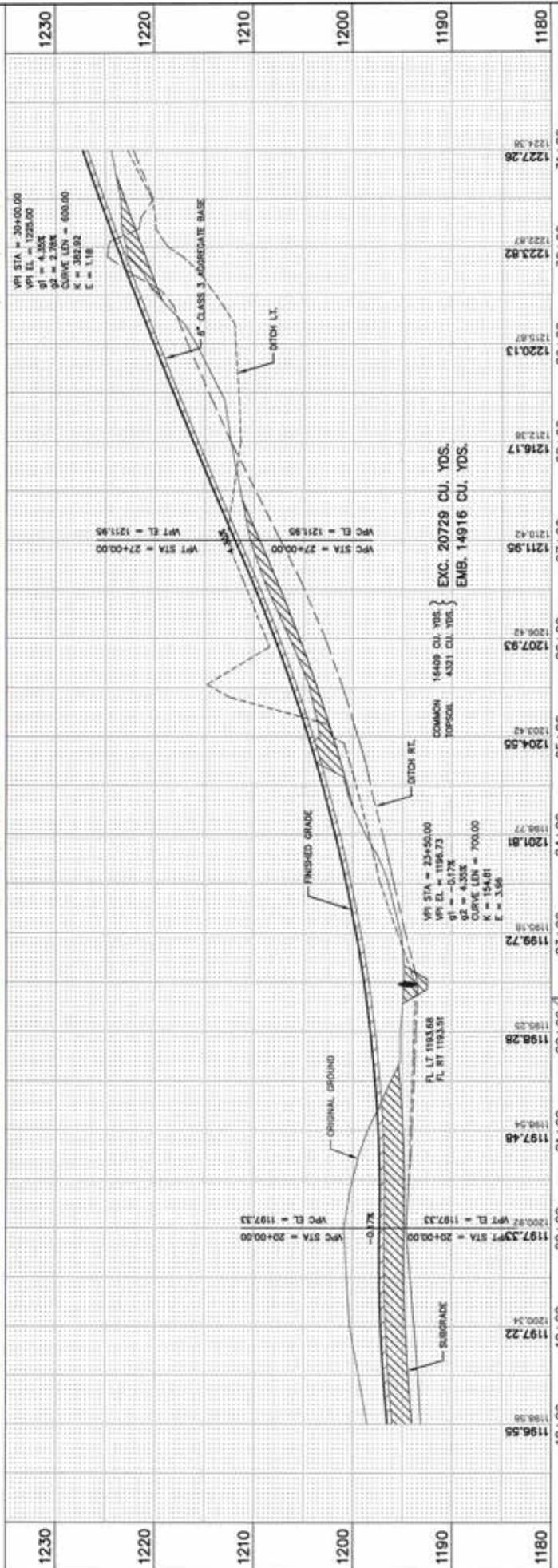
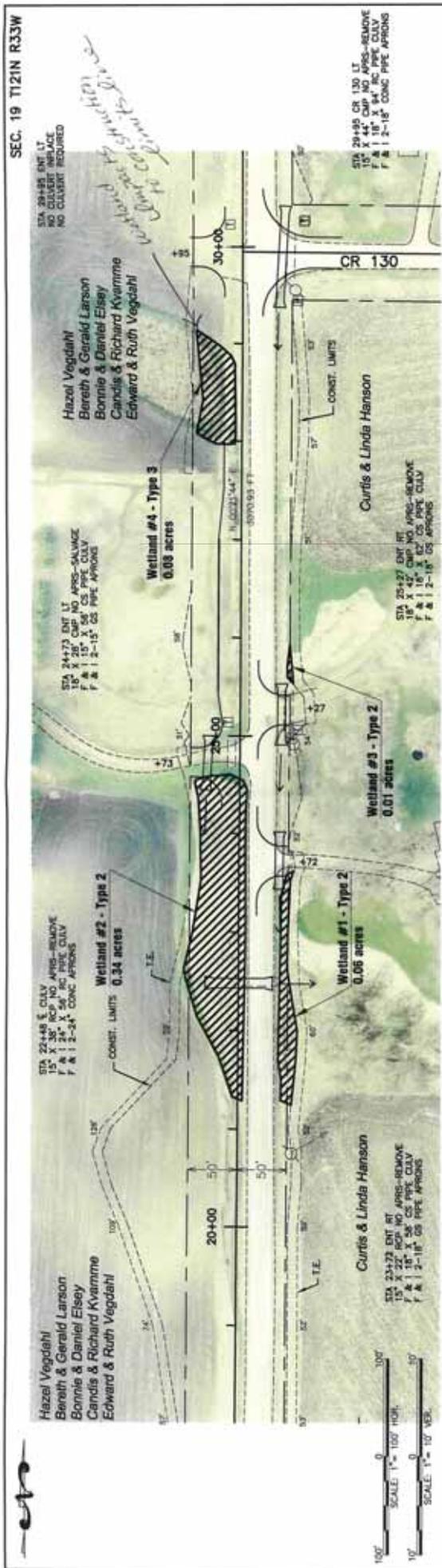
1195	1195.00	17+00	1195.00	18+00
1185	1185.00	16+00	1185.00	17+00
1175	1175.00	15+00	1175.00	16+00
1165	1165.00	14+00	1165.00	15+00

FOR EXCAVATION AND UNIFORMITY OF PROFILE ON ALL SLOPES, THE CROSS SECTION SHEETS, BACKFILL BOTTOM MUST BE WITHIN RESPECTIVE TOLERANCES SHOWN. BACKFILL MUST BE WITH AGGREGATE BASE CLASS 2.

ALL LEVELS ARE N.A.S.D. MSL. ALL DITCH DEPTHS ARE COMPUTED FROM SHOULDER GRADE.

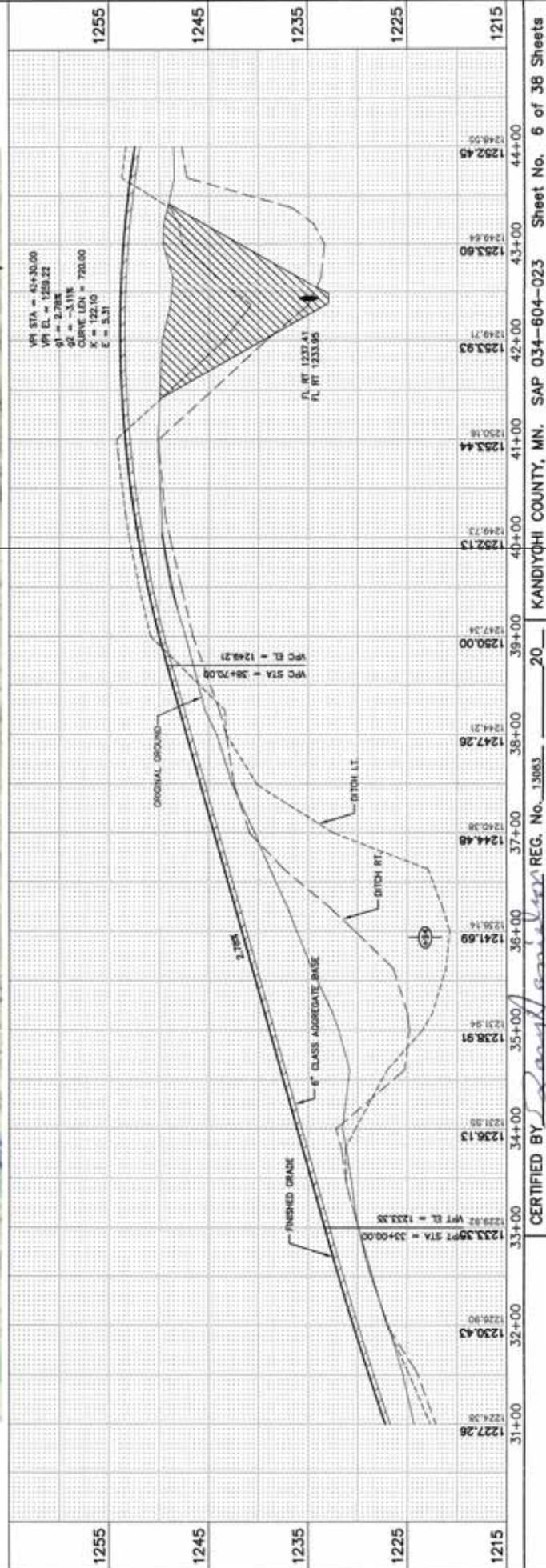
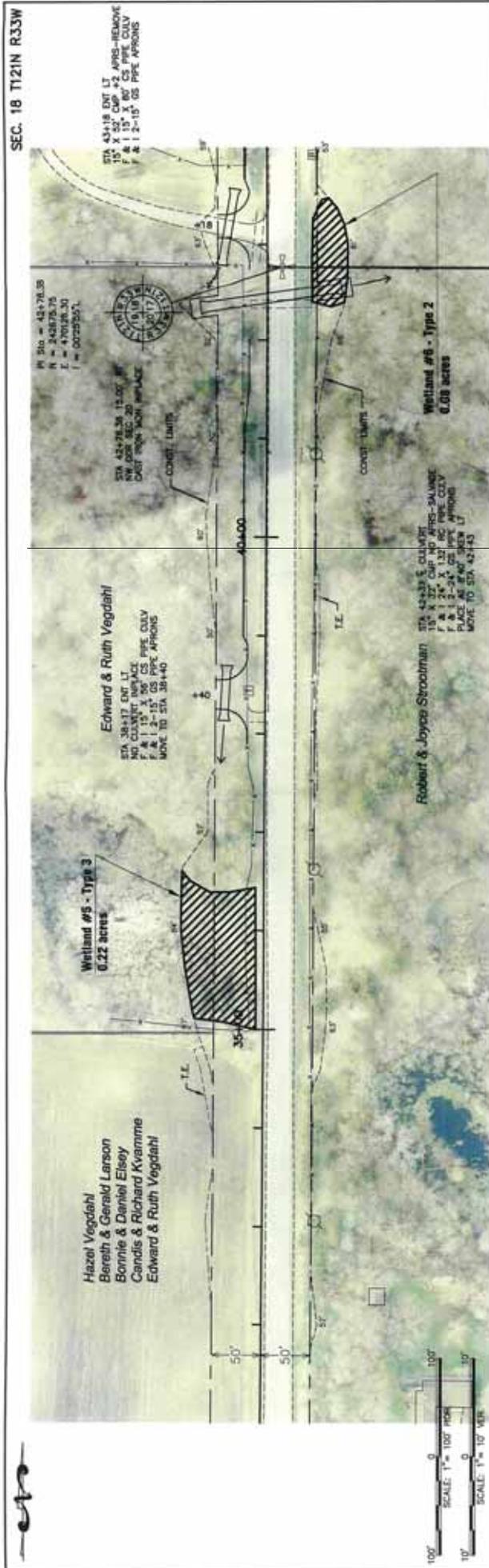
CERTIFIED BY *Dan H. Anderson* REG. NO. 13083

KANDIYOHI COUNTY, MN. SAP 034-604-023 Sheet No. 4 of 38 Sheets

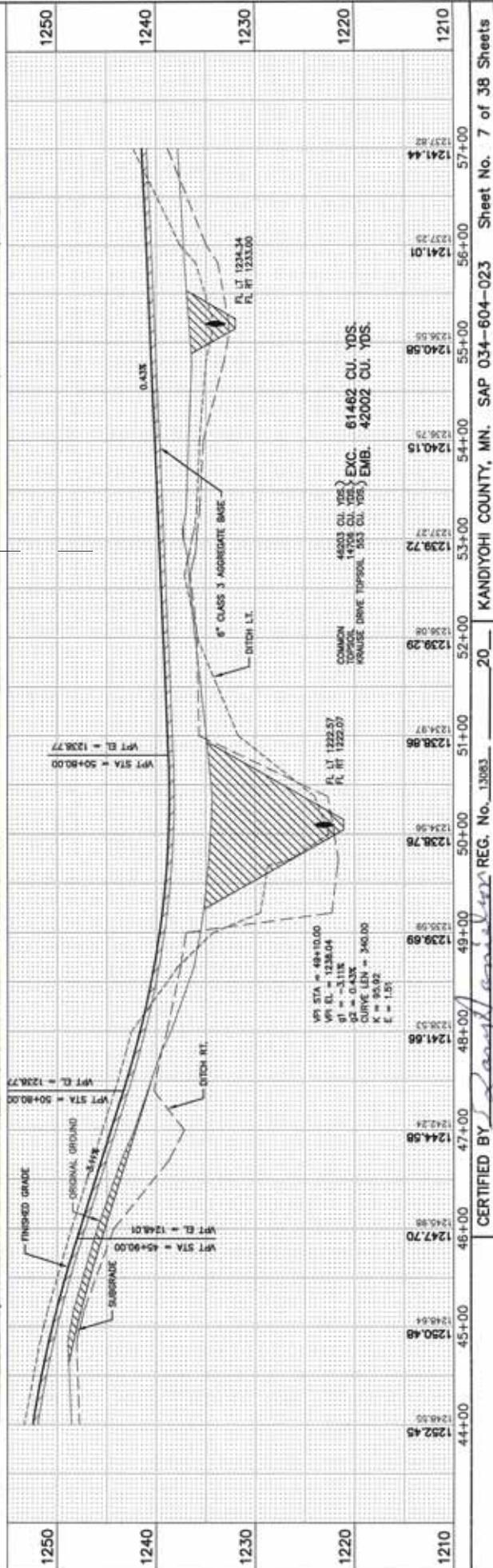
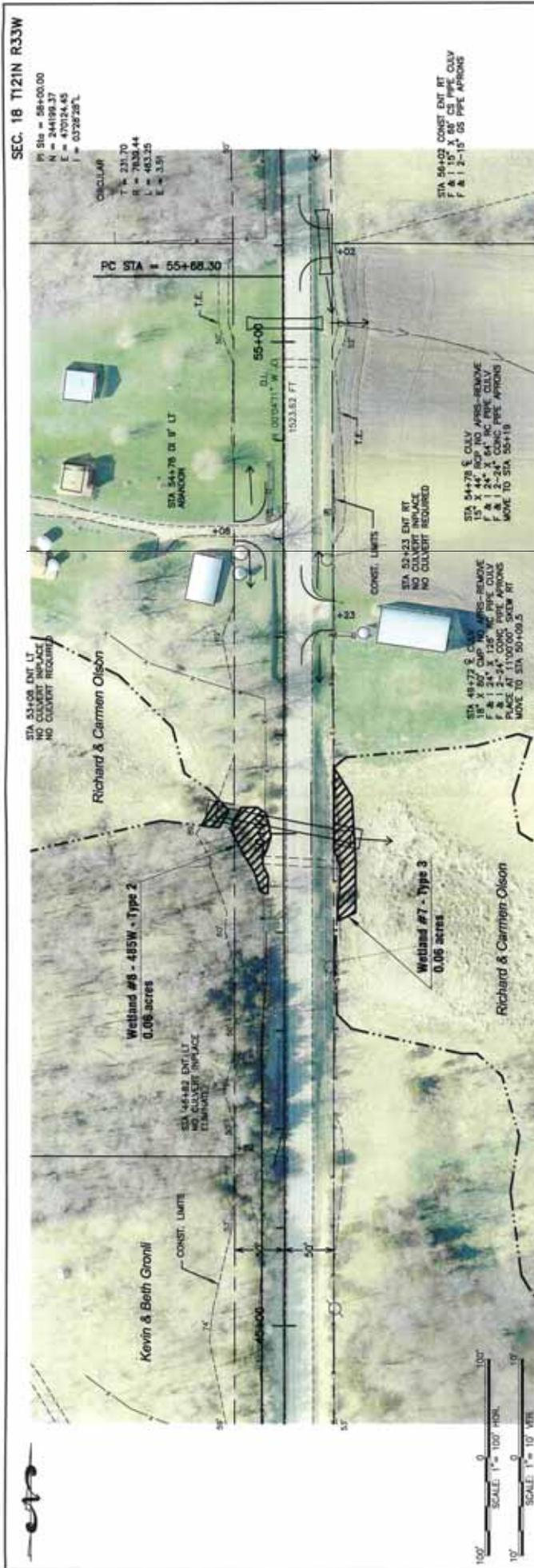


1230	1220	1210	1200	1190	1180
1227.26	1223.82	1220.13	1216.17	1211.95	1204.55
1224.38	1223.87	1219.87	1212.38	1206.42	1203.42
31+00	30+00	29+00	28+00	27+00	26+00
KANDIYOHI COUNTY, MN. SAP 034-604-023					
Sheet No. 5 of 38 Sheets					

CERTIFIED BY *[Signature]* REG. No. 13083 20



CERTIFIED BY *Danah Anderson* REG. NO. 13083 20 KANDIYOHKI COUNTY, MN. SAP 034-604-023 Sheet No. 6 of 38 Sheets



1250
1240
1230
1220
1210

44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00

1252.45
1248.50
1244.58
1242.24
1241.66
1239.69
1238.76
1238.96
1234.97
1239.29
1236.08
1239.72
1237.27
1240.15
1236.75
1240.58
1236.55
1241.01
1237.25
1241.44
1237.82

SEC. 18 T121N R33W

Richard & Carmen Olson

Kevin & Beth Gronli

Wetland #6 - 485W - Type 2
0.06 acres

Wetland #7 - Type 3
0.06 acres

Richard & Carmen Olson

PC STA = 55+68.30

DL 55+00

1023.62 FT

CONST. LIMITS

STA 53+23 ENT RT
NO CURB/RT IMPACT
NO CURB/RT REQUIRED

STA 54+78 6" LT
AVARON

STA 54+78 E CULV. APPROX. REMOVE
F & 1 24" 30' RC PIPE CULV.
F & 1 2-24" CONC PIPE APRONS
MOVE TO STA 55+19

STA 48+77 6" CULV. APPROX. REMOVE
F & 1 24" 30' RC PIPE CULV.
F & 1 2-24" CONC PIPE APRONS
PLACE AT 11700'00" SKIRM RT
MOVE TO STA 50+09.5

STA 55+03 CONST ENT RT CULV
F & 1 2-15" OS PIPE APRONS

STA 53+08 ENT LT
NO CURB/RT IMPACT
NO CURB/RT REQUIRED

STA 54+62 ENT LT
NO CURB/RT IMPACT
NO CURB/RT REQUIRED

CONST. LIMITS

FINISHED GRADE

ORIGINAL GROUND

SUBGRADE

DITCH RT.

DITCH LT.

6" CLASS 3 AGGREGATE BASE

VPI STA = 49+10.00
VPI EL = 1238.04
G1 = -3.11%
G2 = 0.43%
CURVE LEN = 340.00
K = 95.92
E = 1.85

VPI STA = 50+80.00
VPI EL = 1238.77

FL LT 1234.34
FL RT 1233.00

FL LT 1232.57
FL RT 1232.09

COMMON TOPSOIL 14708 CU. YDS. EXC. 61462 CU. YDS. EMB. 42002 CU. YDS.
KRAUSE DRIVE TOPSOIL 553 CU. YDS.

CERTIFIED BY *[Signature]* REG. No. 13083 20

KANDIYOHI COUNTY, MN. SAP 034-604-023 Sheet No. 7 of 38 Sheets