

Information for File #2014-00316-WAB

Applicant	Itasca County Highway Department
Corps Contact	Bill Baer
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E-Mail	William.a.baer@usace.army.mil
Phone	651-290-5338
Primary County	Itasca
Sec/Township/Range	S34, T57N, R24W
Information Complete On	March 31, 2014
Posting Expires On	April 25, 2014
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 Purpose: The purpose of the project is to reconstruct 0.8 miles of Itasca County Road (CR) 336 from a five ton seasonally weight-restricted roadway to a ten ton route, and to reconstruct 2,260 lineal feet of an existing ditch, located along the west side of County State Aid Highway (CSAH) 7 and extending west of CSAH 7, to accommodate current and anticipated runoff volume.

CR 336 was constructed to its current geometry over 50 years ago, which includes two twelve foot driving lanes, two foot wide shoulders and 1:3 (V:H) inslopes. The average daily traffic for this segment is 215 vehicles per day. According to the applicant, the roadway is in poor condition with numerous subgrade failures and shallow ditches, and needs to be reconstructed to provide a ten ton route with adequate width for safety. The existing wetland ditch along and extending west of CSAH 7 is insufficiently sized to accommodate current runoff volume. Additionally, the inslope along CSAH 7 is not built

to current design standards. Except for the portion of the wetland ditch located next to Wetland 1, the wetland ditch was constructed through uplands.

Project Description: The applicant proposes to reconstruct 0.8 miles of CR 336 to include two twelve foot driving lanes, four foot wide shoulders, ditch improvements, and a ten ton structural design. The project would include a complete reconstruction of the existing roadway and include a slightly different alignment to avoid adverse effects to adjacent property owners and existing utilities. The existing roadway would be excavated, followed by placement of material to form a new wider subgrade with flatter inslopes. Ditches along CR 336 would be built to allow for adequate drainage along most of the roadway, avoiding ditch construction in most wetland areas. The proposed roadway inslopes would be constructed at a 1:4(V:H) slope, with variable ditch and backslopes.

The existing 2,260 foot long wetland ditch along CSAH 7 and extending west of CSAH 7 has not been maintained and currently has an average bottom width of approximately three feet, or approximately 6,800 square feet in size. The ditch would be reconstructed with an eight foot wide bottom. After reconstruction, the 2,260 foot long ditch would have a bottom area of approximately 18,080 square feet (0.41 acres). The existing inslopes of CSAH 7 are 1:2 to 1:2.5(V:H). The reconstructed ditch would be located a suitable distance away from CSAH 7 with consideration for a future reconstruction of CSAH 7 inslopes to State design standards.

Name, Area and Types of waters (including wetlands) subject to loss: The project would result in a total of 1.89 acres of wetland impacts in nine wetland locations due to excavation (0.41 acres), permanent fill (1.07 acres), and temporary fill (0.41 acres). The temporary fill is associated with the temporary storage of topsoil along the outer portion of the construction corridor. The project would have 1.47 acres of permanent wetland impacts from fill and cut, including 0.66 acres of seasonal flooded basin and 0.81 acres of hardwood swamp.

Approximately 6,800 square feet (0.15 acres) of the wetland ditch along CSAH 7 and extending west of CSAH 7 will be impacted by fill or excavation. The ditch will be reconstructed with an eight foot wide ditch bottom, re-establishing approximately 18,080 square feet of ditch bottom.

Alternatives considered: The applicant considered a “do-nothing” alternative, which would not address the safety and design problems. Current traffic levels and road condition would result in further road deterioration to the point it would not provide a reasonable level of service.

The applicant considered resurfacing with a bituminous overlay. That alternative was determined to not address the substandard road width safety standards and would not address the failing subgrade.

The applicant considered utilizing the existing alignment instead of slightly shifting the roadway to the south. This alternative was considered to have an adverse impact to adjacent property owners, utilities, and would not reduce the amount of wetland impacts.

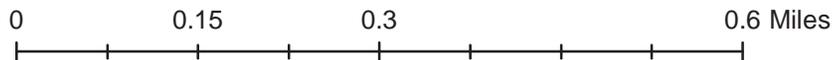
COMPENSATORY MITIGATION: The applicant has proposed to compensate for the 1.47 acres of permanent wetland impacts by debiting credits from the Minnesota Local Government Roads Wetland Replacement Program mitigation bank.

Drawings See attached.

2014-00316-WAB Itasca CSAH 7 ditch improvement, County Road 336 reconstruction



● Wetland impact (see corresponding table for resource type and impact)



CSAH 336 Wetland Impacts - CP1111

Station to Station	Location Number	County	Wetland Type	Wetland Impacts			
				Cut - SF	Fill - SF	Temporary - SF	Total - AC
6+53 - 7+93	1	Itasca	Type 1 - Seasonally Flooded	3663	1562	1199	0.15
7+08 - 9+08	2	Itasca	Type 1 - Seasonally Flooded	0	2317	1897	0.10
7+76 - 15+00	3	Itasca	Type 7 - Hardwood Swamp	12831	16343	4297	0.77
13+33 - 17+11	4	Itasca	Type 1 - Seasonally Flooded	49	0	3305	0.08
16+00 - 17+52	5	Itasca	Type 7 - Hardwood Swamp	94	5282	1150	0.15
31+50 - 32+34	6	Itasca	Type 1 - Seasonally Flooded	0	3376	633	0.09
33+84 - 38+52	7	Itasca	Type 1 - Seasonally Flooded	586	17598	4254	0.52
37+38 - 37+92	8	Itasca	Type 1 - Seasonally Flooded	0	0	233	0.01
42+72 - 43+43	9	Itasca	Type 7 - Hardwood Swamp	364	0	551	0.02

17587

Wetland Impact Summary by Type:

Cut Impacts:

Type 1 = 0.09 Acres
 Type 7 = 0.31 Acres

Temporary Impacts:

Type 1 = 0.26 Acres
 Type 7 = 0.14 Acres

Fill Impacts:

Type 1 = 0.57 Acres
 Type 7 = 0.50 Acres

Total Impacts:

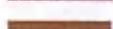
Type 1 = 0.95 Acres
 Type 7 = 0.94 Acres

Upper Mississippi River Basin, Mississippi River Grand Rapids Watershed

Total Acreage of Wetlands Impacted 1.89

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WETLAND IMPACT KEY

-  - FILL
-  - CUT
-  - TEMP
-  - WET DITCH

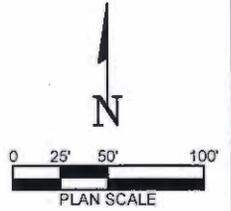
OWNER: TANBERG, ALBERT
 TAX PAYER: SCHWARTZ, WILLIAM J & SALLY
 TAX PARCEL: #23-034-3206
 ABBREVIATED DESCRIPTION:
 (NW SW LYG N OF CTY RD & W OF SAR 7)
 SECTION 34-T57N-R24W

WETLAND 1
 TYPE 1
 SEASONALLY FLOODED
 1562 sq. ft. fill
 3663 sq. ft. cut
 1199 sq. ft. temp

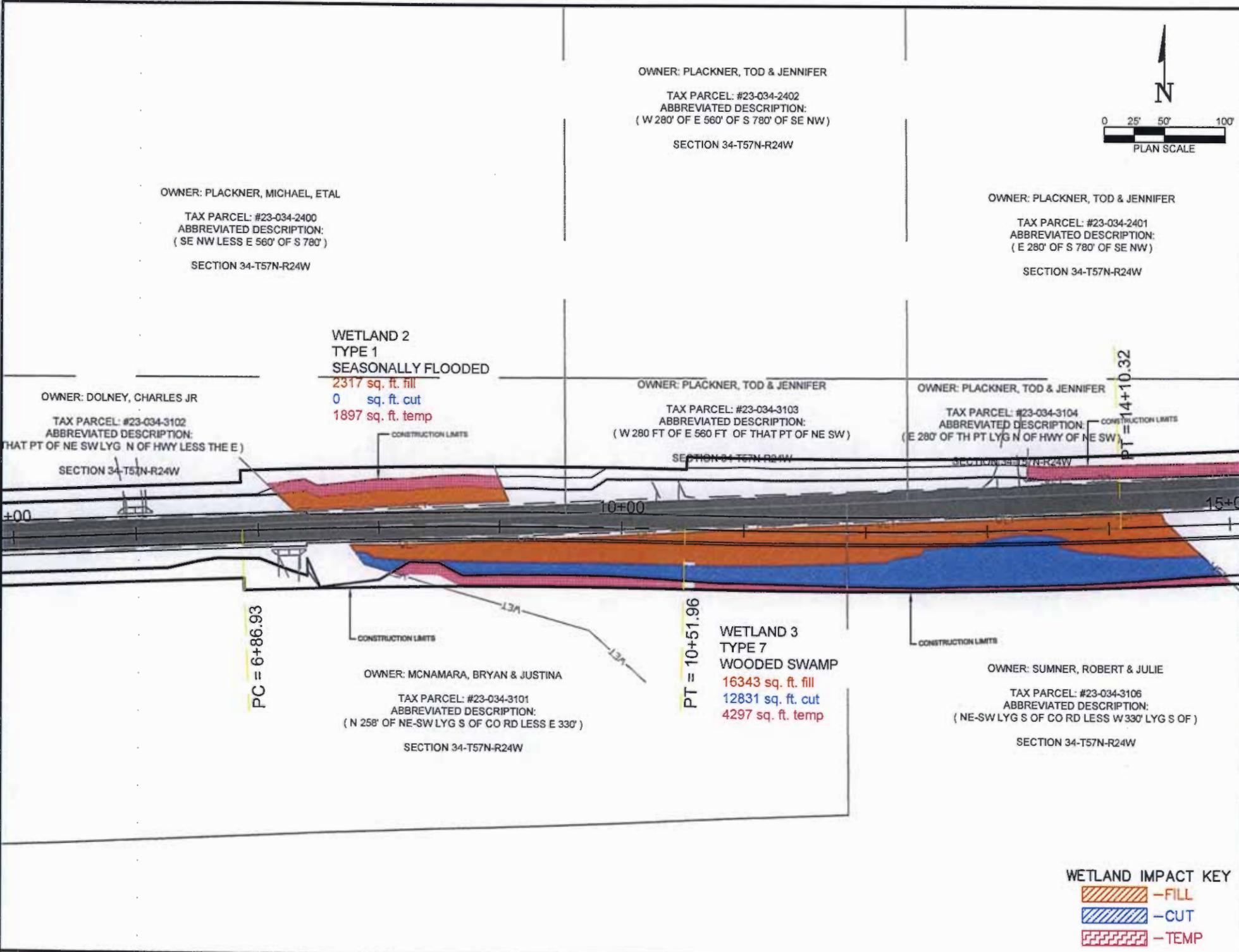


OWNER: PLACKNER, MICHAEL, ETAL
 TAX PARCEL: #23-034-2305
 ABBREVIATED DESCRIPTION:
 (PT OF SW NW LYG S OF N 632.5FT LYG E OF RD)
 SECTION 34-T57N-R24W

OWNER: PETRICH, STEVEN
 TAX PARCEL: #23-034-3205
 ABBREVIATED DESCRIPTION:
 (N 150 FT OF NW SW LYG & BEING E OF BOVEY-)
 SECTION 34-T57N-R24W



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OWNER: PLACKNER, MICHAEL, ETAL
 TAX PARCEL: #23-034-2400
 ABBREVIATED DESCRIPTION:
 (SE NW LESS E 560' OF S 780')
 SECTION 34-T57N-R24W

OWNER: PLACKNER, TOD & JENNIFER
 TAX PARCEL: #23-034-2402
 ABBREVIATED DESCRIPTION:
 (W 280' OF E 560' OF S 780' OF SE NW)
 SECTION 34-T57N-R24W

OWNER: PLACKNER, TOD & JENNIFER
 TAX PARCEL: #23-034-2401
 ABBREVIATED DESCRIPTION:
 (E 280' OF S 780' OF SE NW)
 SECTION 34-T57N-R24W

WETLAND 2
 TYPE 1
 SEASONALLY FLOODED
 2317 sq. ft. fill
 0 sq. ft. cut
 1897 sq. ft. temp

OWNER: DOLNEY, CHARLES JR
 TAX PARCEL: #23-034-3102
 ABBREVIATED DESCRIPTION:
 (THAT PT OF NE SW LYG N OF HWY LESS THE E)
 SECTION 34-T57N-R24W

OWNER: PLACKNER, TOD & JENNIFER
 TAX PARCEL: #23-034-3103
 ABBREVIATED DESCRIPTION:
 (W 280 FT OF E 560 FT OF THAT PT OF NE SW)
 SECTION 34-T57N-R24W

OWNER: PLACKNER, TOD & JENNIFER
 TAX PARCEL: #23-034-3104
 ABBREVIATED DESCRIPTION:
 (E 280' OF TH PT LYG N OF HWY OF NE SW)
 SECTION 34-T57N-R24W

OWNER: MCNAMARA, BRYAN & JUSTINA
 TAX PARCEL: #23-034-3101
 ABBREVIATED DESCRIPTION:
 (N 258' OF NE-SW LYG S OF CO RD LESS E 330')
 SECTION 34-T57N-R24W

WETLAND 3
 TYPE 7
 WOODED SWAMP
 16343 sq. ft. fill
 12831 sq. ft. cut
 4297 sq. ft. temp

OWNER: SUMNER, ROBERT & JULIE
 TAX PARCEL: #23-034-3106
 ABBREVIATED DESCRIPTION:
 (NE-SW LYG S OF CO RD LESS W 330' LYG S OF)
 SECTION 34-T57N-R24W

WETLAND IMPACT KEY

 -FILL
 -CUT
 -TEMP

Sheet 2 of 16

CP--1111 WETLAND IMPACTS

DATE: 03-03-2014

WILD-CP1111-R2.DWG

OWNER: PLACKNER, TOD & JENNIFER

TAX PARCEL: #23-034-2402
ABBREVIATED DESCRIPTION:
(90' OF E 560' OF S 780' OF SE NW)

SECTION 34-T57N-R24W

OWNER: PLACKNER, TOD & JENNIFER

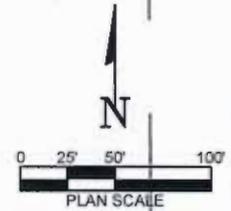
TAX PARCEL: #23-034-2401
ABBREVIATED DESCRIPTION:
(E 280' OF S 780' OF SE NW)

SECTION 34-T57N-R24W

OWNER: ARONSON, NIKKI S & KYLE W

TAX PARCEL: #23-034-1301
ABBREVIATED DESCRIPTION:
(SW NE LESS E 826'8")

SECTION 34-T57N-R24W



OWNER: PLACKNER, TOD & JENNIFER

TAX PARCEL: #23-034-3103
ABBREVIATED DESCRIPTION:
(OF E 560 FT OF THAT PT OF NE SW)

SECTION 34-T57N-R24W

OWNER: PLACKNER, TOD & JENNIFER

TAX PARCEL: #23-034-3104
ABBREVIATED DESCRIPTION:
(E 280' OF TH PT LYG N OF HWY OF NE SW)

SECTION 34-T57N-R24W

WETLAND 4
TYPE 1
SEASONALLY FLOODED

0 sq. ft. fill
49 sq. ft. cut
3305 sq. ft. temp

OWNER: ARONSON, NIKKI S & KYLE W

TAX PARCEL: #23-034-4203
ABBREVIATED DESCRIPTION:
(W 493'4" OF NW SE LYG N OF C/L OF HWY)

SECTION 34-T57N-R24W

PT = 14+10.32

15+00

20+00

CONSTRUCTION LIMITS

OWNER: SUMNER, ROBERT & JULIE

TAX PARCEL: #23-034-3106
ABBREVIATED DESCRIPTION:
(NE-SW LYG S OF CO RD LESS W 330' LYG S OF)

SECTION 34-T57N-R24W

WETLAND 5
TYPE 7
WOODED SWAMP

5282 sq. ft. fill
94 sq. ft. cut
1150 sq. ft. temp

PT = 10+51.96

WETLAND 3
TYPE 7
WOODED SWAMP

16343 sq. ft. fill
12831 sq. ft. cut
4297 sq. ft. temp

WETLAND IMPACT KEY



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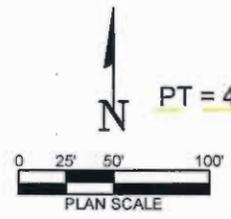
Sheet 3 of 16

CP-1111 WETLAND IMPACTS

DATE: 03-03-2014

WLD-CP1111-R2.DWG

FILE PATH (N:\CR_336\CP1111\DWG DESIGN)



Sheet 4 of 16

OWNER: BLANDIN PAPER/FORESTRY
 TAX PARCEL: #23-034-1400
 ABBREVIATED DESCRIPTION:
 (SE NE)
 SECTION 34-T57N-R24W

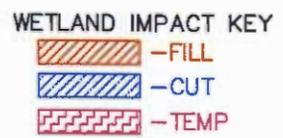
WETLAND 9
 TYPE 7
 WOODED SWAMP
 0 sq. ft. fill
 364 sq. ft. cut
 551 sq. ft. temp

WETLAND 8
 TYPE 1
 SEASONALLY FLOODED
 0 sq. ft. fill
 0 sq. ft. cut
 233 sq. ft. temp

WETLAND 6
 TYPE 1
 SEASONALLY FLOODED
 3376 sq. ft. fill
 0 sq. ft. cut
 633 sq. ft. temp

OWNER: BLANDIN PAPER/FORESTRY
 TAX PARCEL: #23-034-4100
 ABBREVIATED DESCRIPTION:
 (NE SE)
 SECTION 34-T57N-R24W

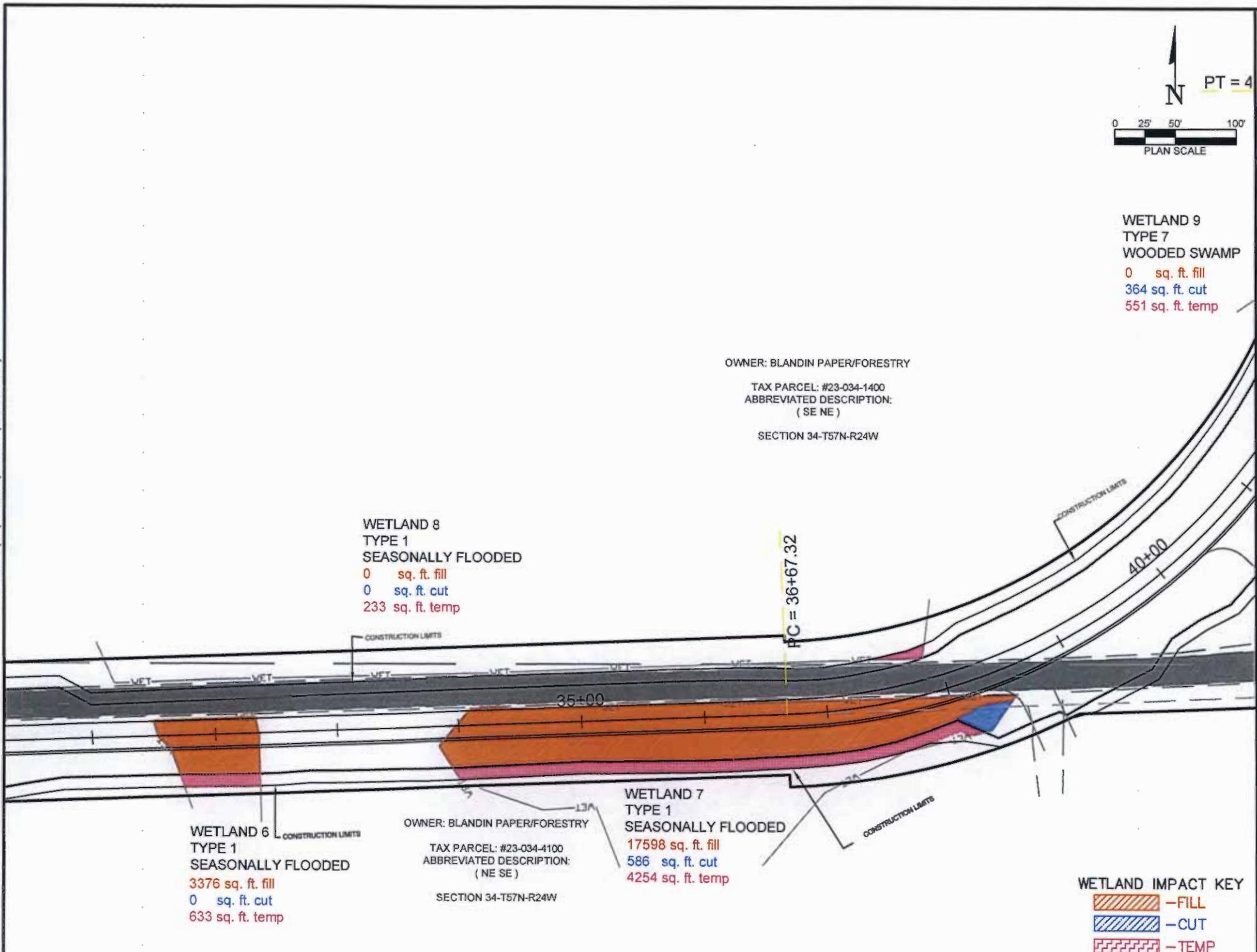
WETLAND 7
 TYPE 1
 SEASONALLY FLOODED
 17598 sq. ft. fill
 586 sq. ft. cut
 4254 sq. ft. temp



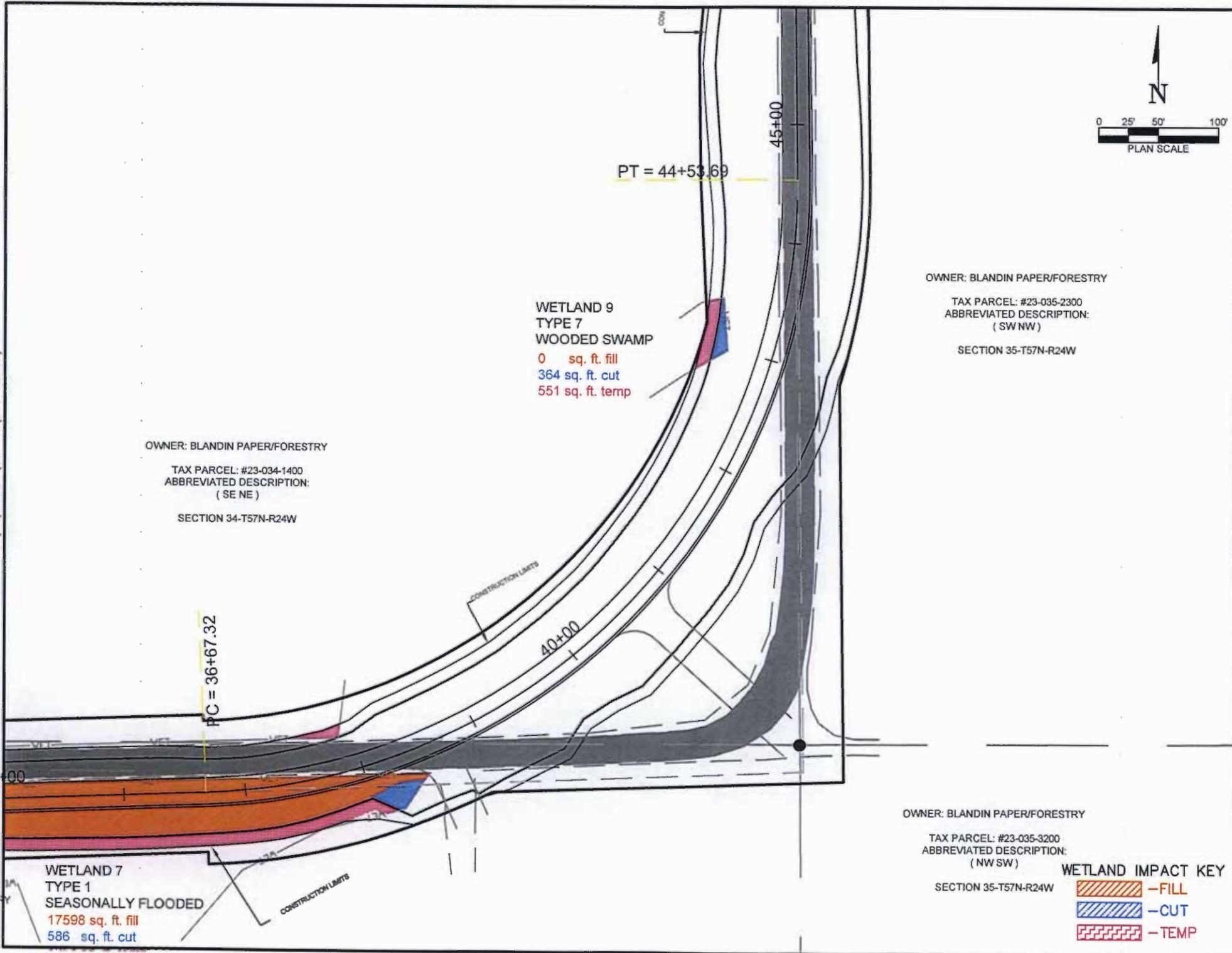
CP-1111 WETLAND IMPACTS

DATE: 03-03-2014

WTLD-CP1111-R2.DWG



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OWNER: BLANDIN PAPER/FORESTRY
 TAX PARCEL: #23-034-1400
 ABBREVIATED DESCRIPTION:
 (SE NE)
 SECTION 34-T57N-R24W

WETLAND 9
 TYPE 7
 WOODED SWAMP
 0 sq. ft. fill
 364 sq. ft. cut
 551 sq. ft. temp

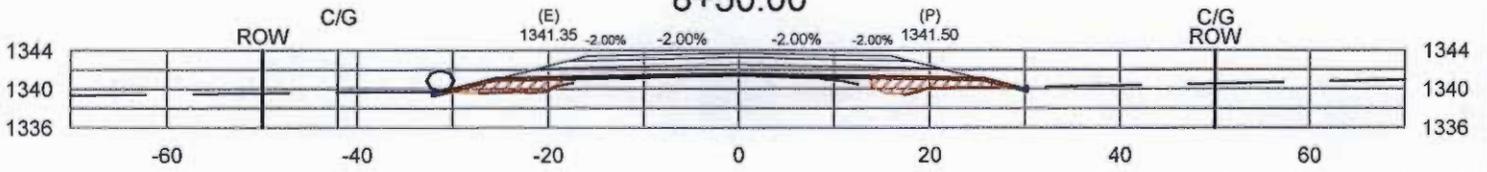
OWNER: BLANDIN PAPER/FORESTRY
 TAX PARCEL: #23-035-2300
 ABBREVIATED DESCRIPTION:
 (SW NW)
 SECTION 35-T57N-R24W

WETLAND 7
 TYPE 1
 SEASONALLY FLOODED
 17598 sq. ft. fill
 586 sq. ft. cut

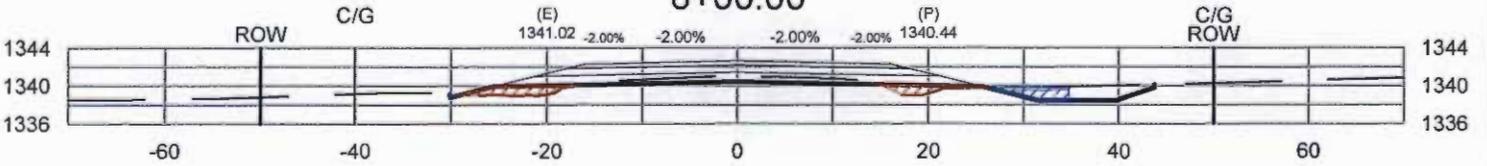
OWNER: BLANDIN PAPER/FORESTRY
 TAX PARCEL: #23-035-3200
 ABBREVIATED DESCRIPTION:
 (NW SW)
 SECTION 35-T57N-R24W

WETLAND IMPACT KEY
 [Orange hatched] - FILL
 [Blue hatched] - CUT
 [Pink hatched] - TEMP

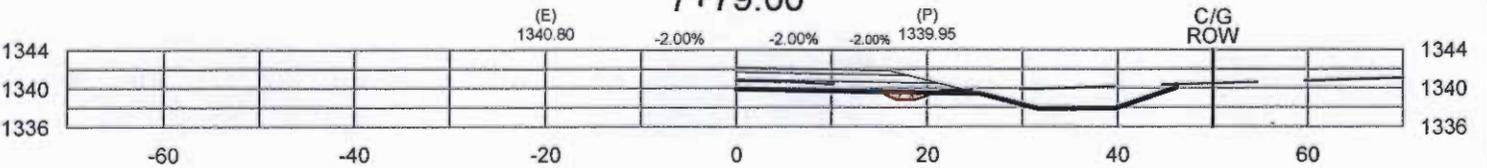
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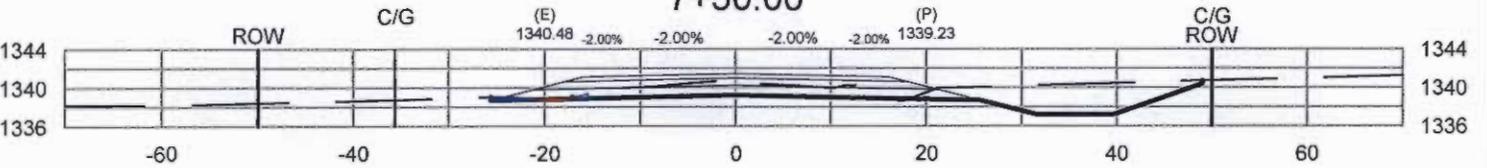
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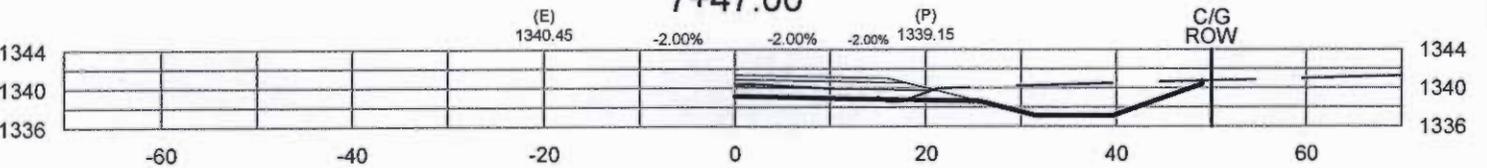
7+79.00



7+50.00



7+47.00

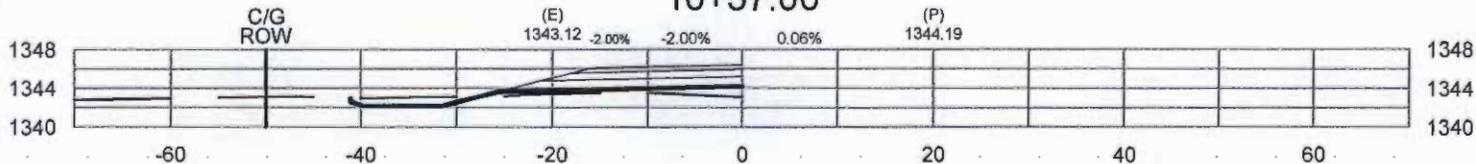


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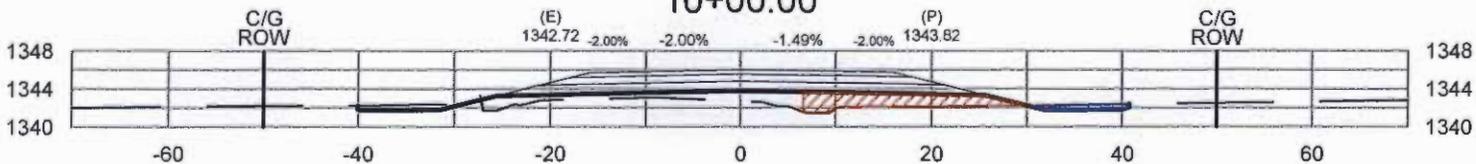
-  -FILL
-  -CUT
-  -TEMP

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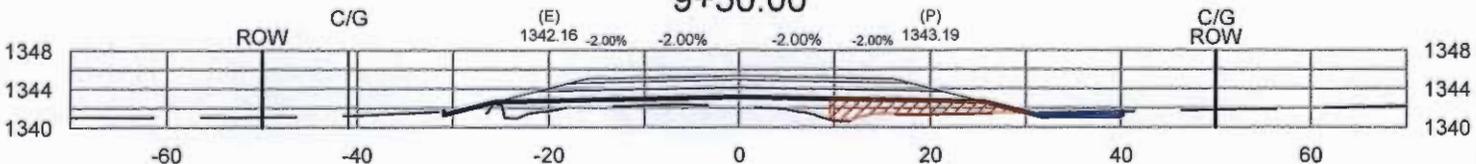
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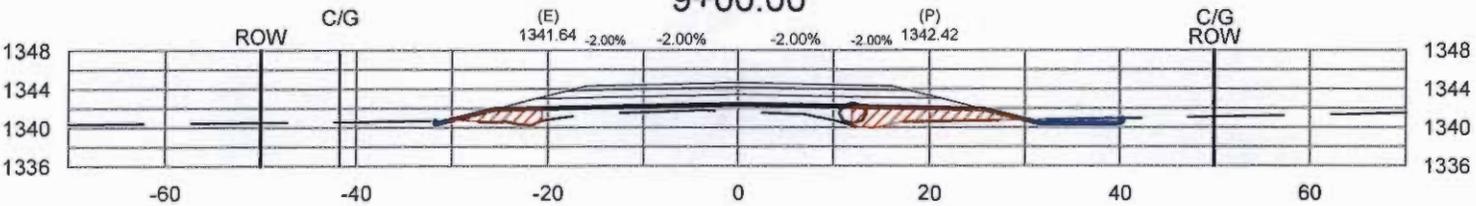
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9+50.00



9+00.00



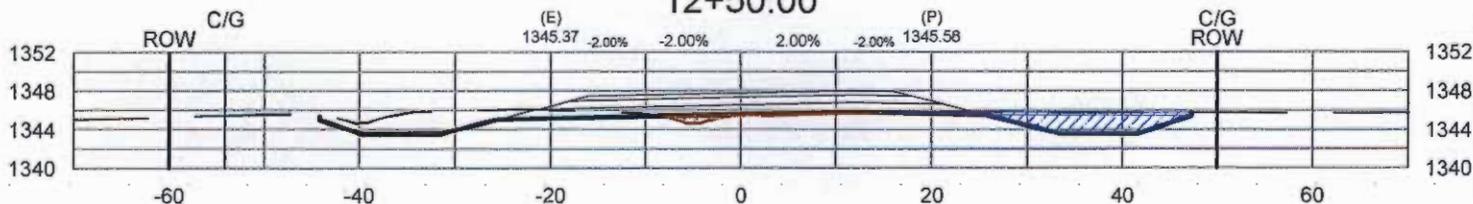
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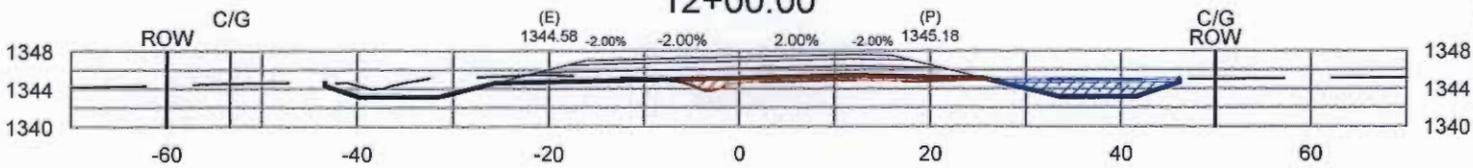
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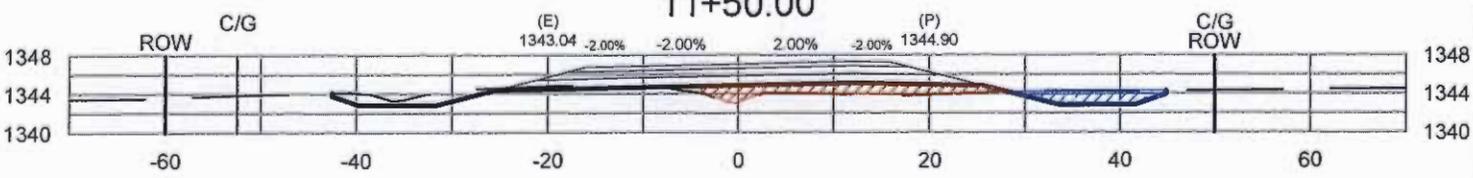
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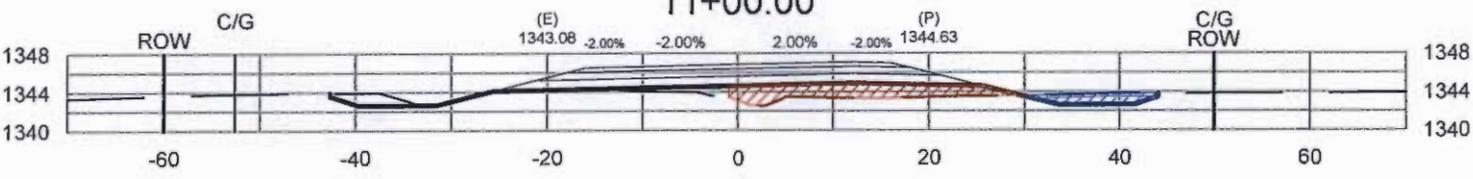
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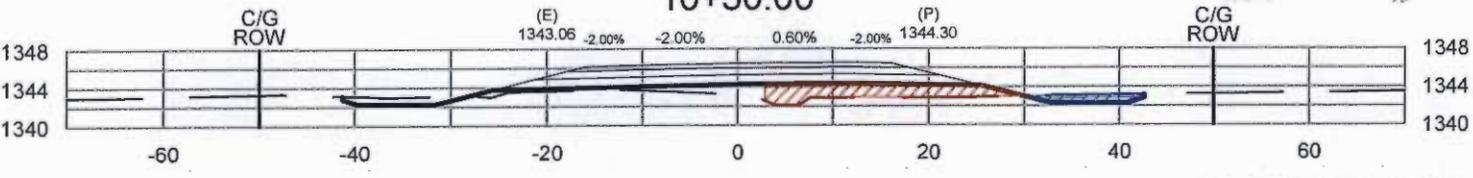
11+50.00



11+00.00



10+50.00

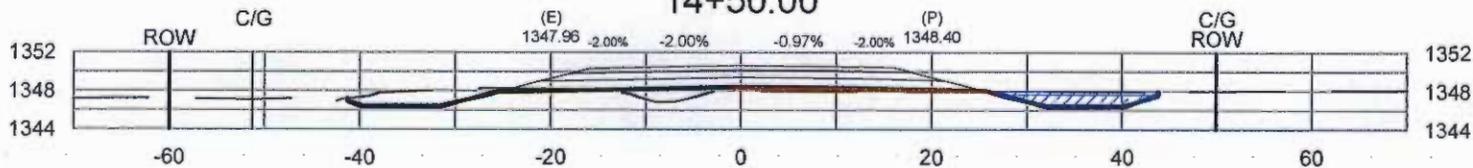


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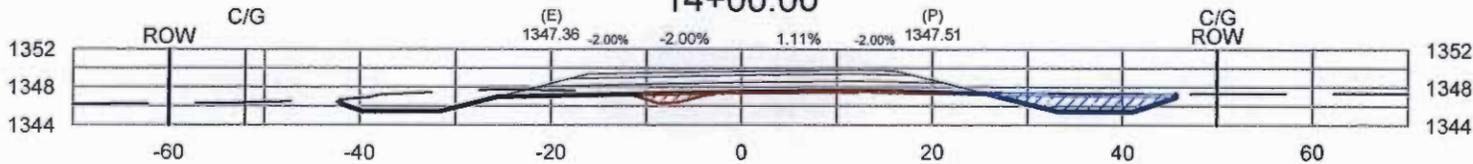
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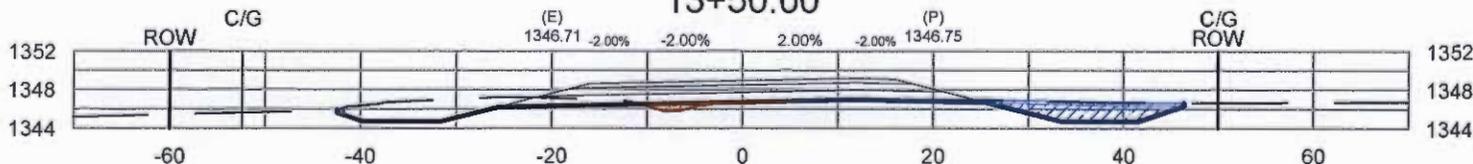
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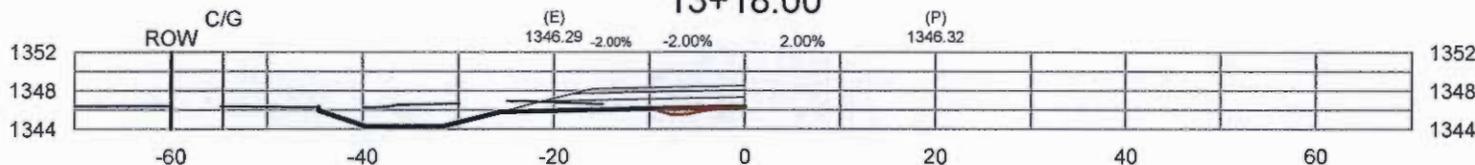
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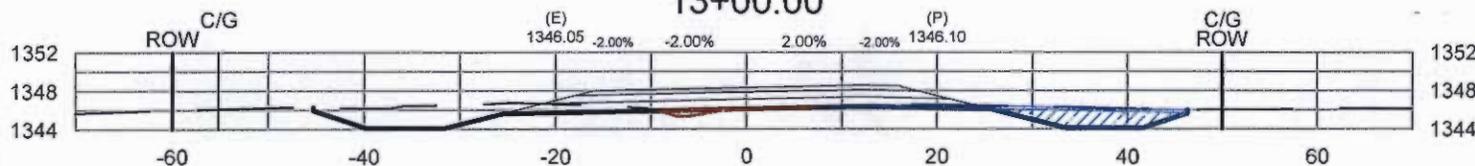
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13+18.00



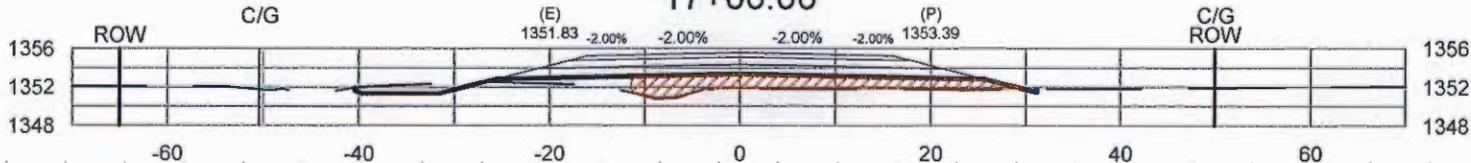
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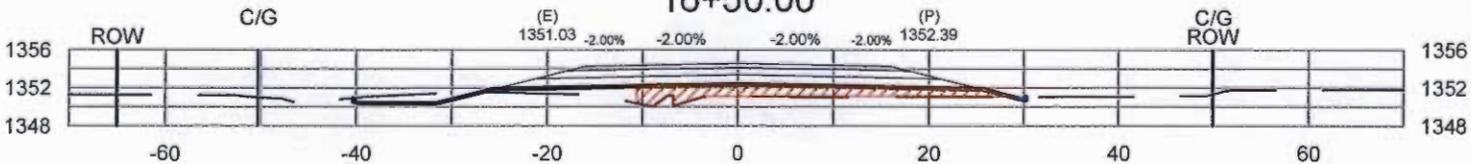
WETLAND IMPACT KEY
 - FILL
 - CUT
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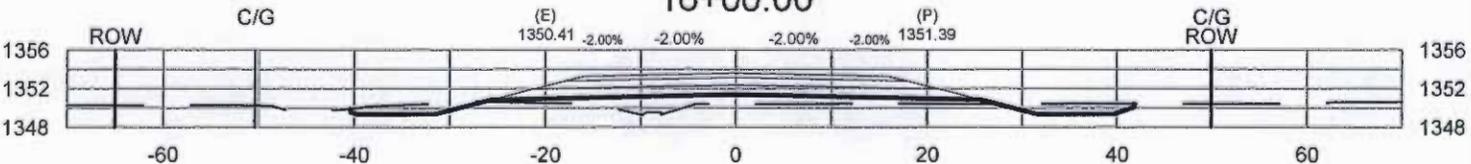
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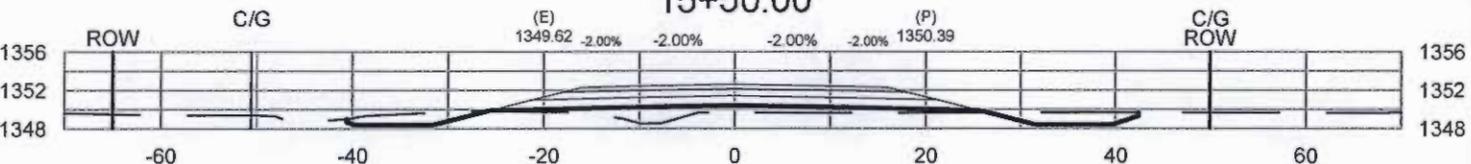
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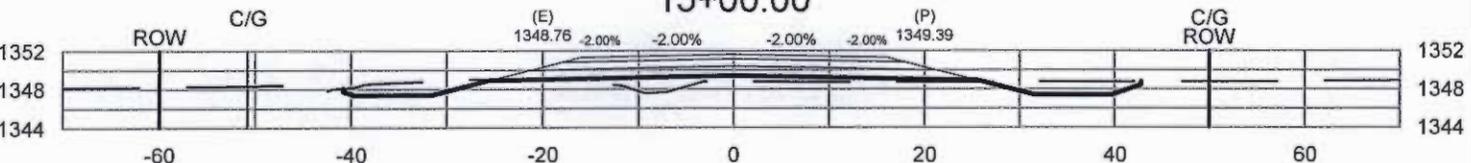
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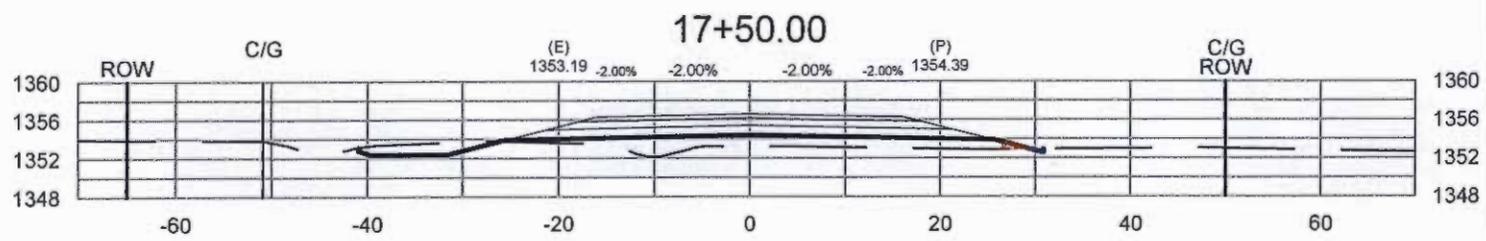
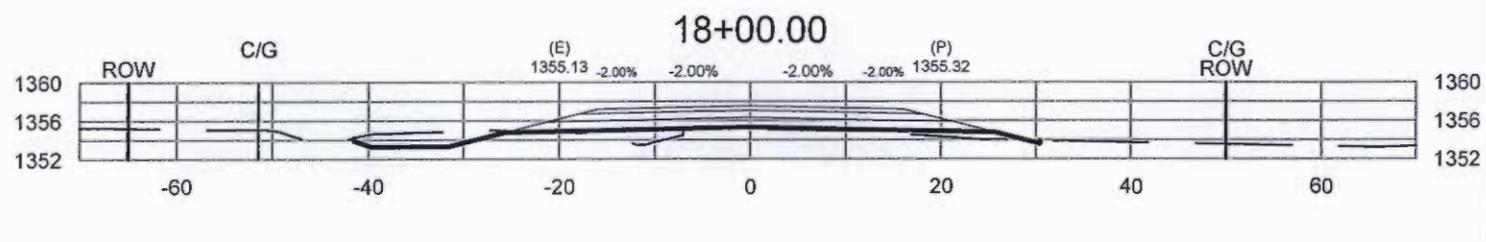
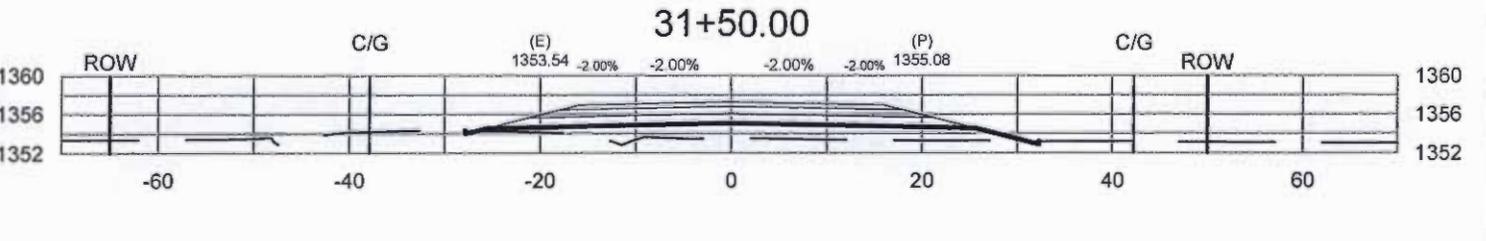
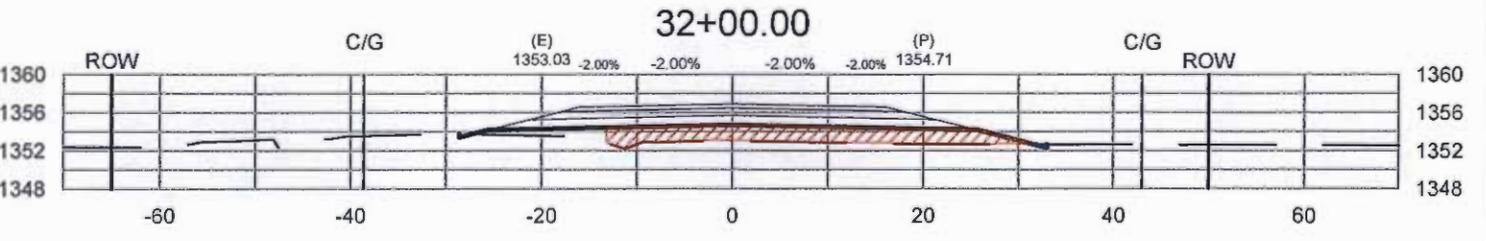
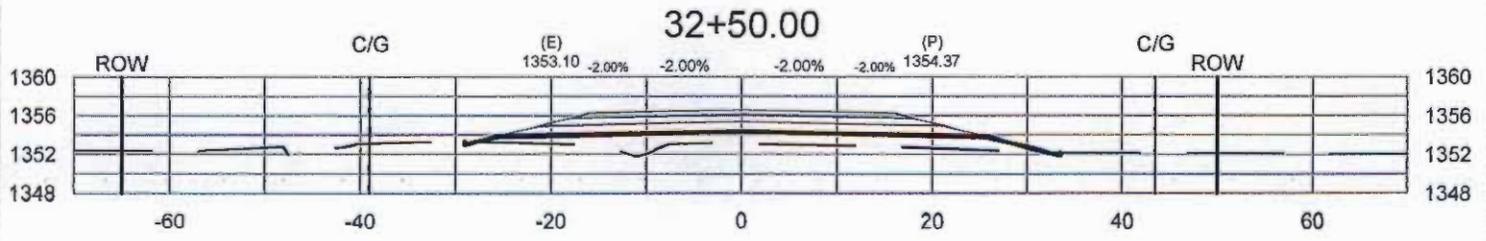


15+00.00



WETLAND IMPACT KEY
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 -CUT
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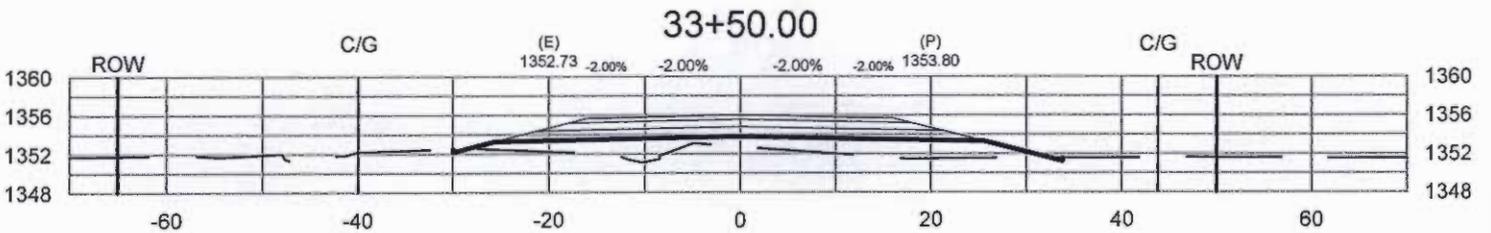
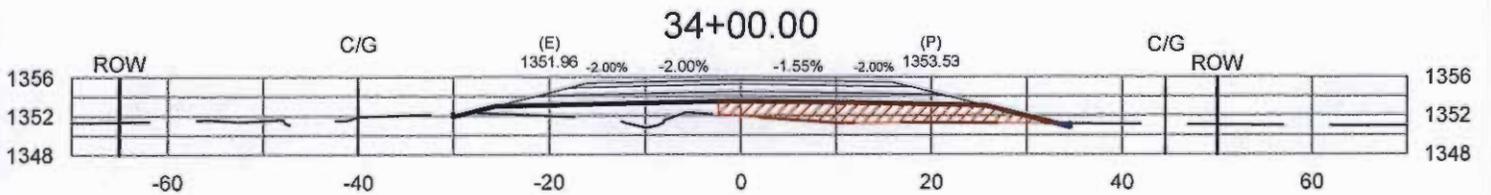
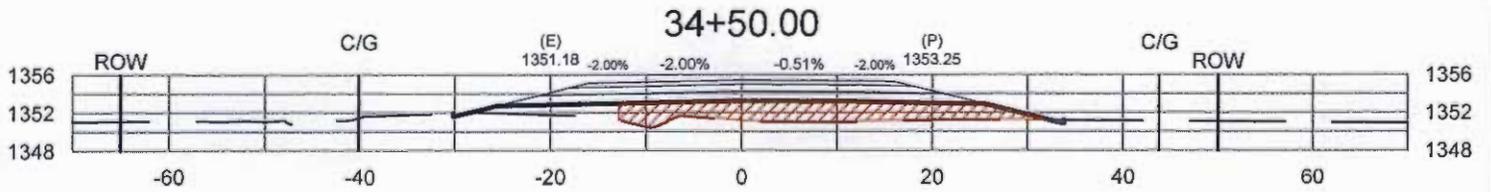
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WETLAND IMPACT KEY
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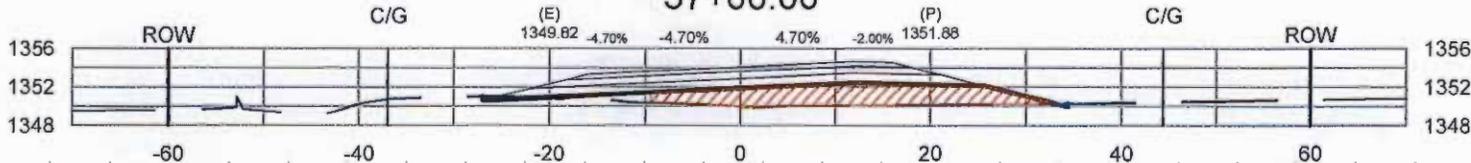
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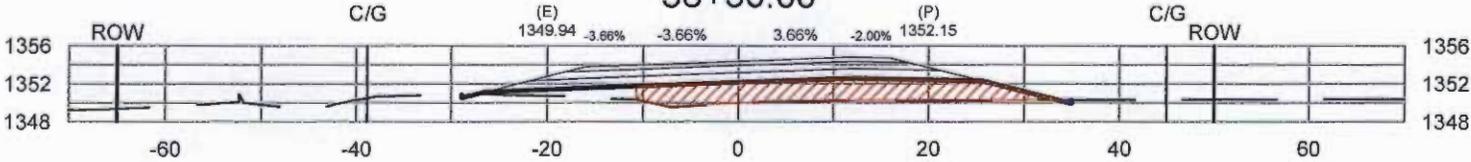
WETLAND IMPACT KEY

- FILL
- CUT
- TEMP

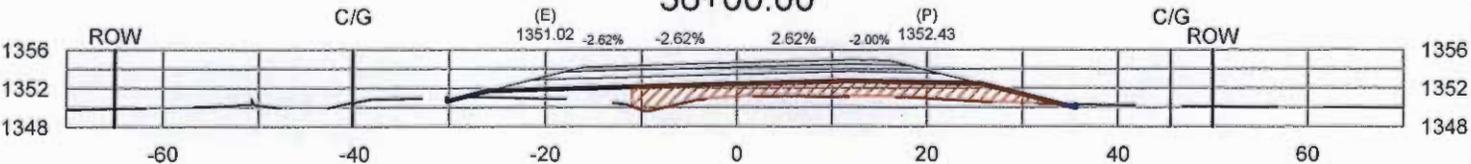
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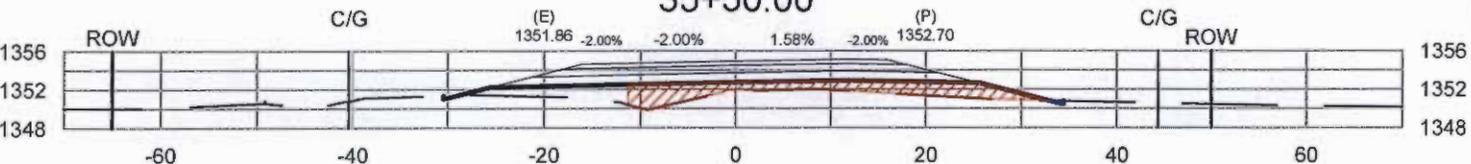
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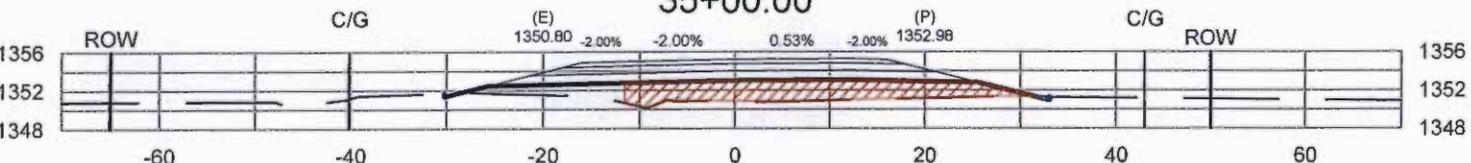
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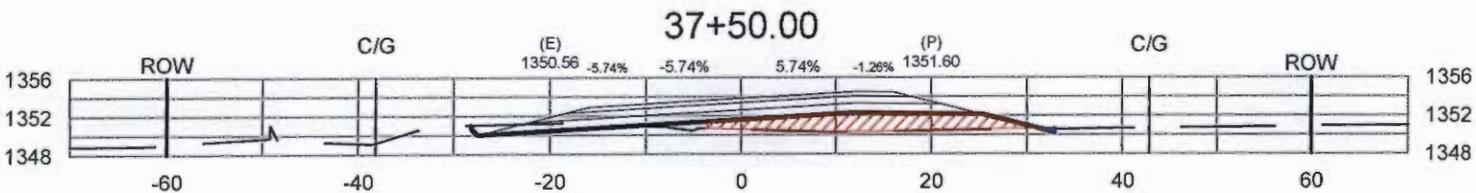
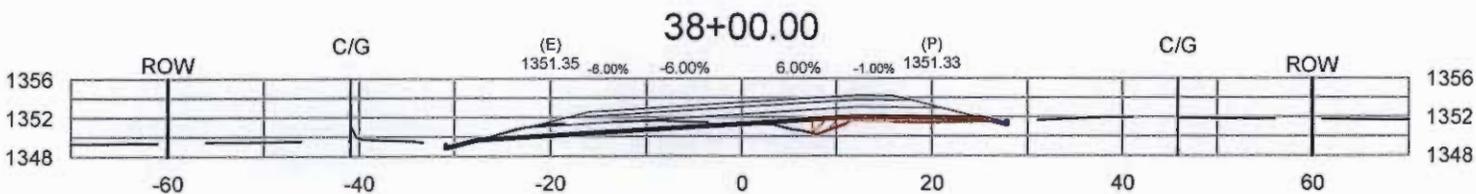
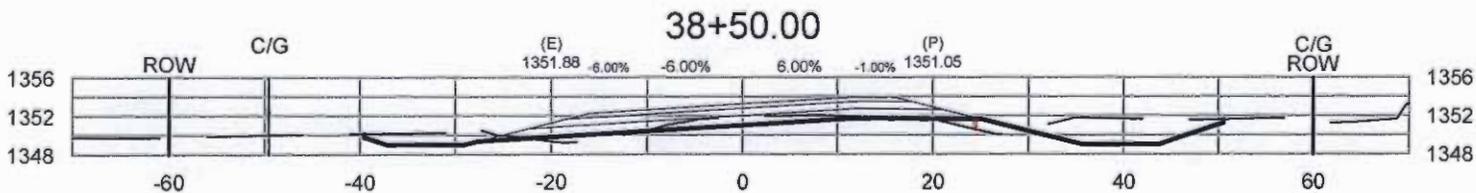
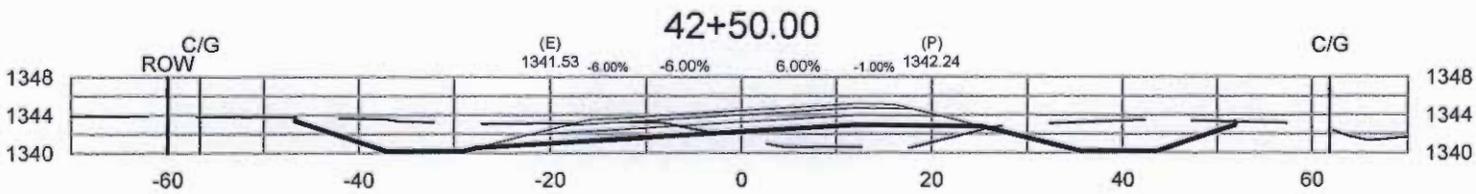
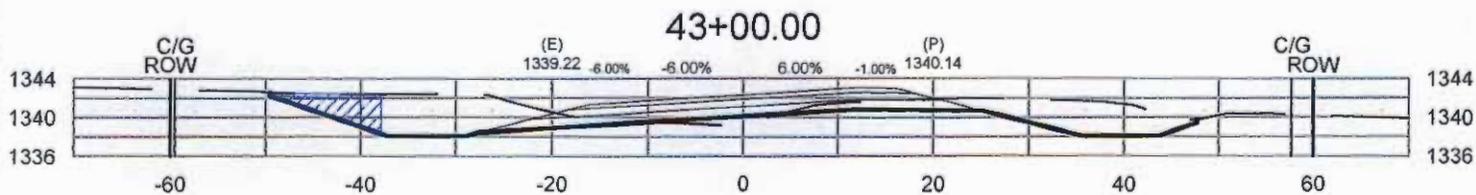


35+00.00



WETLAND IMPACT KEY
 -FILL
 -CUT
 -TEMP

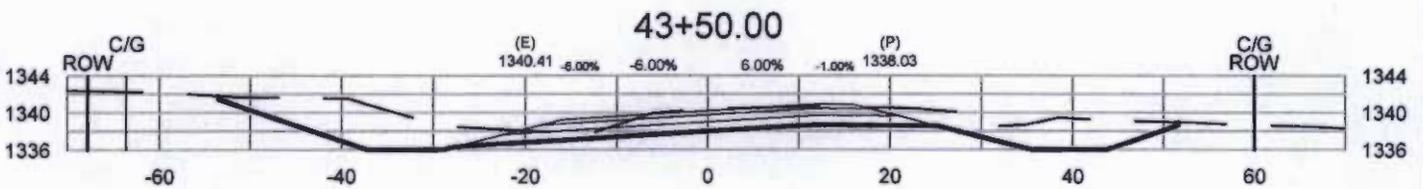
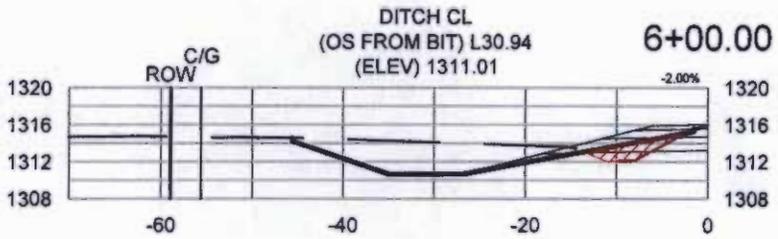
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WETLAND IMPACT KEY
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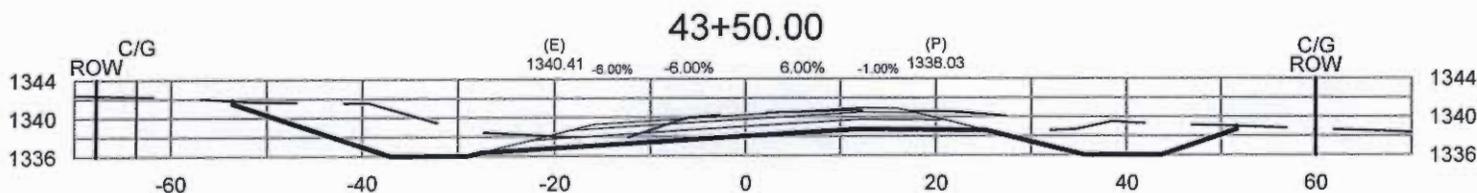
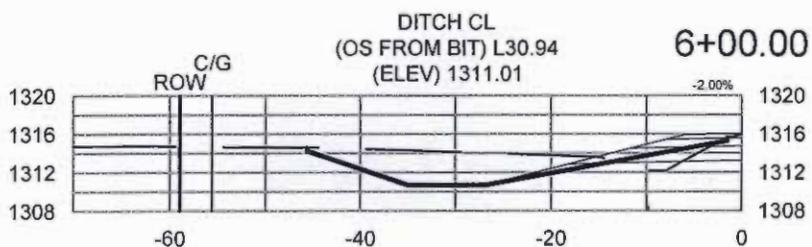
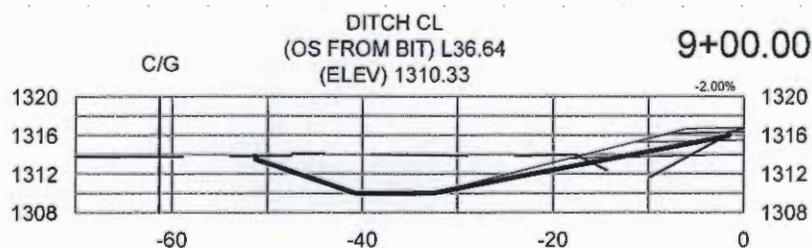
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- TEMP

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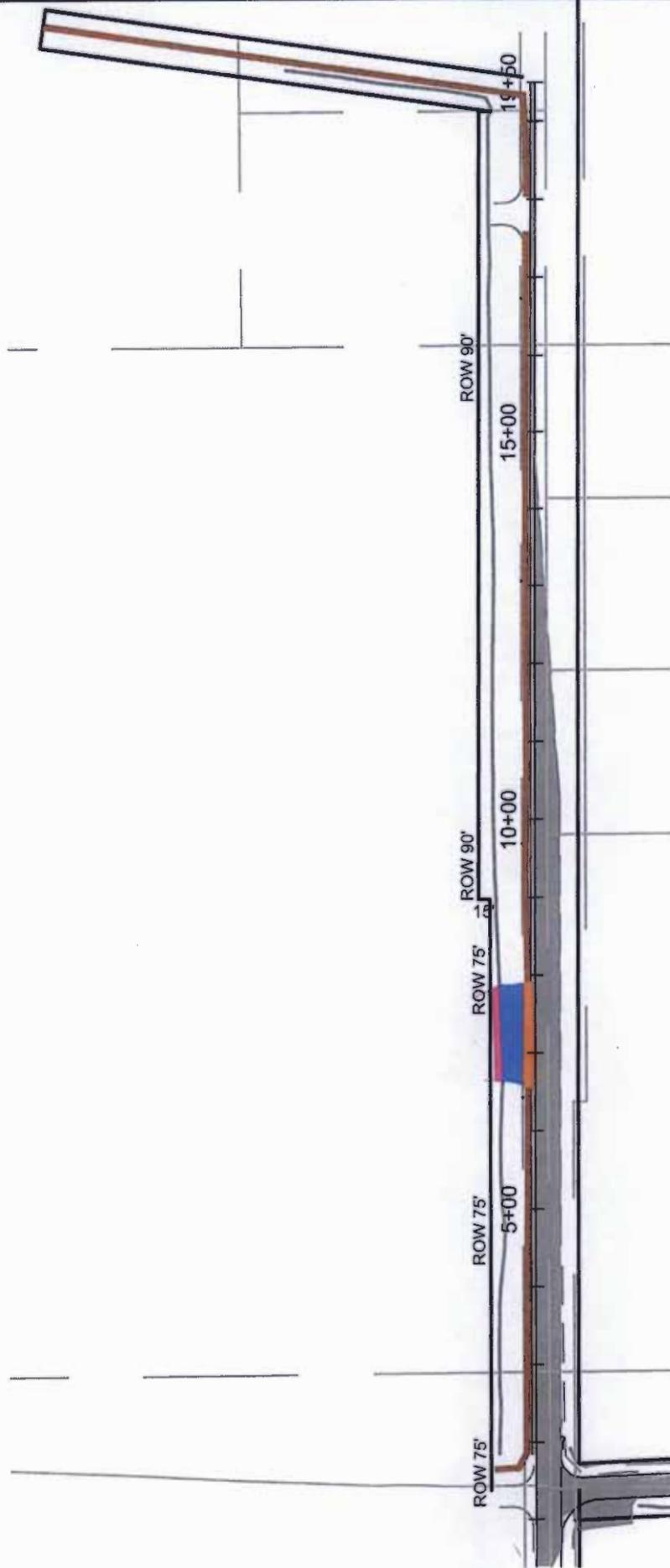


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WET DITCH IMPACTS:
 - 2260± LINEAL FEET
 - 3' AVERAGE DITCH WIDTH
 - TOTAL: 6,780± SQ FT

DITCH RECONSTRUCTION:
 - 2260± x 8' = 18,080 SQ FT

WETLAND IMPACT KEY

-  - FILL
-  - CUT
-  - TEMP
-  - WET DITCH