

Information for File #2015-01833-WAB

Applicant: Itasca County Highway Department

Corps Contact: William Baer

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Phone: (651) 290-5338

Primary County: Itasca

Location S/T/R: From the SW corner of S30, to the southeast corner of the SW ¼, NE ¼, S19, T56N, R26W, Itasca County, Minnesota.

Information Complete On: June 3, 2015

Posting Expires On: September 20, 2015

Authorization Type: LOP-05-MN (CWA 404)

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 Purpose: The purpose of the project is to reconstruct a 2.42 mile (12,800 feet) segment of Itasca County State Aid Highway (CSAH) 88 to meet appropriate design and safety standards.

Project Description: This is the last segment of a reconstruction project on this road and connects the previously completed work to U.S. 2. The road has an average daily traffic of 220 vehicles. The current driving surface consists of gravel of varying width, which is deteriorating. The proposed work would meet the current 10 ton design standards, the required safety standard width and provide a 55-mph design speed. The design would establish a 28 foot paved surface and two foot gravel shoulders. Best management practices would be employed during construction to minimize erosion, including the use of temporary berm piles, erosion control blankets, bio-rolls, and silt fences. Berm piles would retain run-off at the bottom of in-slopes and be constructed of on-site fill material.

NAME, Area and Types of waters (including wetlands) subject to loss: The proposed project would impact wetlands in 29 locations along the construction corridor, with a combination of temporary and permanent impacts totaling 2.80 acres. Permanent wetland fill impacts would total 1.55 acres, including 0.87 acre of seasonally flooded basins (Type 1), 0.6 acres of shrub carr (Type 6) and 0.08 acres hardwood swamp (Type 7). Temporary impacts due to storage of topsoil and creation of berm piles would total 1.26 acres, including 0.73 acres of seasonally flooded basins (Type 1), 0.46 acres of shrub carr (Type 6) and 0.06 acres of

hardwood swamp (Type 7). Wetland impacts associated with excavation would total 0.59 acres, including 0.30 acres of seasonally flooded basins (Type 1), 0.26 acres shrub carr (Type 6) and 0.02 acres of hardwood swamp (Type 7).

Alternatives considered: The applicant considered re-routing the road around current wetlands, which would create a longer road with more turns and curves. This alternative was rejected due to cost and because it would increase safety hazards. The applicant considered the “do nothing” alternative. This would not address the deteriorating road conditions, eliminate the substandard design, eliminate the ongoing expenditures for maintaining its current condition, and would not provide a continuous paved surface to the previously completed work.

Compensatory Mitigation: The applicant has proposed compensatory mitigation for the unavoidable permanent wetland impacts by debiting credits from the Local Government Road Wetland Replacement Program mitigation bank.

Drawings: 2015-01833-WAB 1 of 24 through 24 of 24. See attached.

CSAH 88 Wetland Impacts - SP 031-688-011

Station to Station	Location Number	County	Wetland Type	Wetland Impacts			
				FILL - Acres	CUT - Acres	Temp - Acres	Total - Acres
1+22-3+28	1	Itasca	Type 1 - Seasonally Flood	0.059	0.047	0.047	0.153
1+43 - 3+04	2	Itasca	Type 1 - Seasonally Flood	0.041	0.004	0.039	0.084
5+25 - 6+98	3	Itasca	Type 1 - Seasonally Flood	0.058	0.039	0.039	0.136
18+75 - 20+10	4	Itasca	Type 1 - Seasonally Flood	0.037	0.000	0.038	0.075
19+31 -20+43	5	Itasca	Type 6 - Shrub Swamp	0.032	0.028	0.032	0.092
23+99 - 26+52	6	Itasca	Type 1 - Seasonally Flood	0.031	0.046	0.064	0.141
23+99 - 26+61	7	Itasca	Type 6 - Shrub Swamp	0.073	0.000	0.057	0.130
27+73 -28+45	8	Itasca	Type 1 - Seasonally Flood	0.008	0.018	0.019	0.045
28+00 - 28+87	9	Itasca	Type 6 - Shrub Swamp	0.022	0.021	0.018	0.061
35+62 - 38+76	10	Itasca	Type 1 - Seasonally Flood	0.120	0.000	0.076	0.196
37+50 - 40+72	11	Itasca	Type 6 - Shrub Swamp	0.112	0.000	0.077	0.189
39+13 - 45+74	12	Itasca	Type 1 - Seasonally Flood	0.188	0.030	0.156	0.374
44+46 - 45+61	13	Itasca	Type 1 - Seasonally Flood	0.041	0.000	0.032	0.073
47+46 - 48+78	14	Itasca	Type 1 - Seasonally Flood	0.077	0.000	0.039	0.116
52+05 - 55+73	15	Itasca	Type 1 - Seasonally Flood	0.097	0.090	0.091	0.278
53+30 - 56+12	16	Itasca	Type 6 - Shrub Swamp	0.085	0.080	0.072	0.237
65+37 - 68+22	17	Itasca	Type 6 - Shrub Swamp	0.102	0.021	0.089	0.212
65+64 - 67+85	18	Itasca	Type 1 - Seasonally Flood	0.049	0.000	0.053	0.102
70+32 - 72+40	19	Itasca	Type 6 - Shrub Swamp	0.061	0.051	0.042	0.154
70+42 - 72+21	20	Itasca	Type 7 - Wooded Swamp	0.039	0.023	0.042	0.104
73+31 - 73+80	21	Itasca	Type 1 - Seasonally Flood	0.014	0.011	0.008	0.033
73+52 - 73+76	22	Itasca	Type 1 - Seasonally Flood	0.003	0.008	0.008	0.019
87+04 - 87+69	23	Itasca	Type 7 - Wooded Swamp	0.041	0.000	0.020	0.061
87+04 - 88+19	24	Itasca	Type 1 - Seasonally Flood	0.032	0.000	0.016	0.048
91+55 - 92+00	25	Itasca	Type 1 - Seasonally Flood	0.012	0.010	0.008	0.030
105+78 - 106+38	26	Itasca	Type 6 - Shrub Swamp	0.015	0.010	0.011	0.036
109+53 - 111+08	27	Itasca	Type 6 - Shrub Swamp	0.043	0.034	0.024	0.101
124+77 - 127+19	28	Itasca	Type 6 - Shrub Swamp	0.043	0.004	0.028	0.075
127+53 - 128+00	29	Itasca	Type 6 - Shrub Swamp	0.010	0.015	0.014	0.039
							3.394

Wetland Impact Summary by Type

Wetland Type	Fill Impacts - AC	Cut Impacts - AC	Temporary - AC	Total - AC (Cut + Fill)
Type 1 - Seasonally Flooded	0.867	0.303	0.733	1.170
Type 6- Shrub Swamp	0.598	0.264	0.464	0.862
Type 7 - Wooded Swamp	0.080	0.023	0.062	0.103
Total Area of Wetlands Impacted:				2.135 Acres

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DATE: 06-01-2015

SAP 31-688-011 WETLAND IMPACTS

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WETLAND #5
TYPE 6
SHRUB SWAMP
FILL = 0.032 ACRE
CUT = 0.028 ACRE
TEMP = 0.032 ACRE

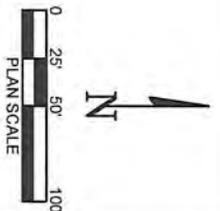
52' R/W FROM CENTERLINE

50' R/W FROM CENTERLINE

WETLAND #4
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.037 ACRE
TEMP = 0.038 ACRE

WETLAND IMPACT KEY

-  - FILL
-  - CUT
-  - TEMP



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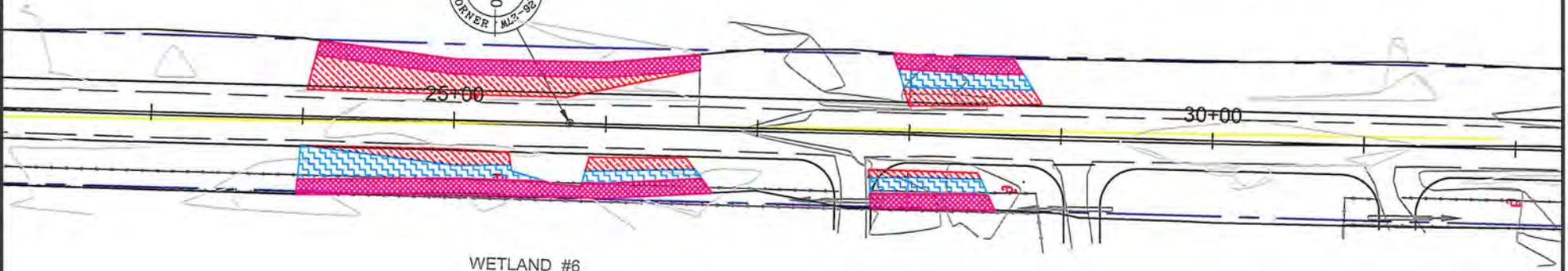
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TYPE 6
SHRUB SWAMP
FILL = 0.073 ACRE
TEMP = 0.057 ACRE

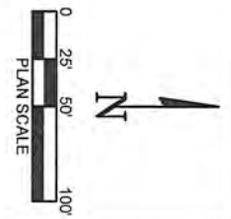
WETLAND #9
TYPE 6
SHRUB SWAMP
FILL = 0.022 ACRE
CUT = 0.021 ACRE
TEMP = 0.018 ACRE



WETLAND #6
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.031 ACRE
CUT = 0.046 ACRE
TEMP = 0.064 ACRE

WETLAND #8
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.008 ACRE
CUT = 0.018 ACRE
TEMP = 0.019 ACRE

WETLAND IMPACT KEY
-FILL
-CUT
-TEMP



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WETLAND #11
TYPE 6
SHRUB SWAMP
FILL = 0.112 ACRE
TEMP = 0.077 ACRE

PC = 38+48.96

PT = 39+48.53

52' R/W FROM CENTERLINE

40+00

51'

45+00

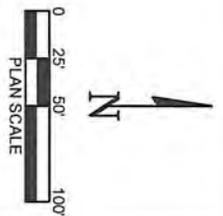
58'

WETLAND #10
TYPE 1
SEASONALLY FLOODED SWAMP
FILL = 0.120 ACRE
TEMP = 0.076 ACRE

WETLAND #12
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.188 ACRE
CUT = 0.030 ACRE
TEMP = 0.156 ACRE

WETLAND IMPACT KEY

-  - FILL
-  - CUT
-  - TEMP



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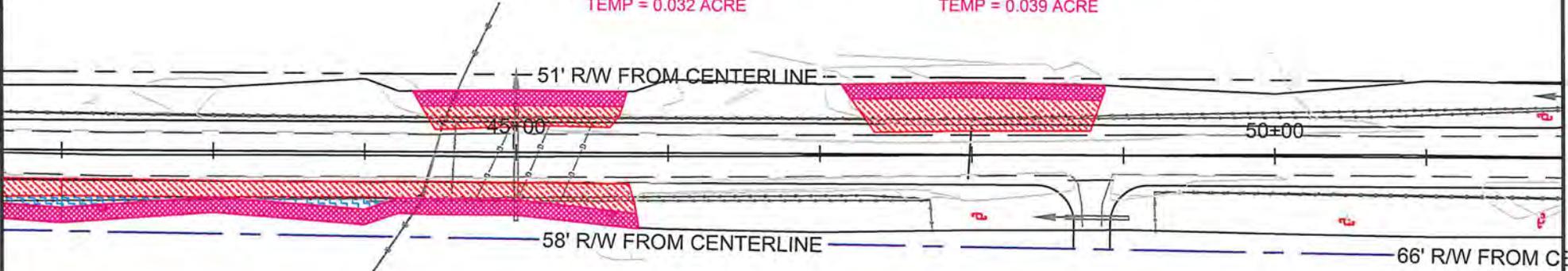
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WETLAND #13
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.041 ACRE
TEMP = 0.032 ACRE

WETLAND #14
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.077 ACRE
TEMP = 0.039 ACRE



ED BASIN

WETLAND IMPACT KEY

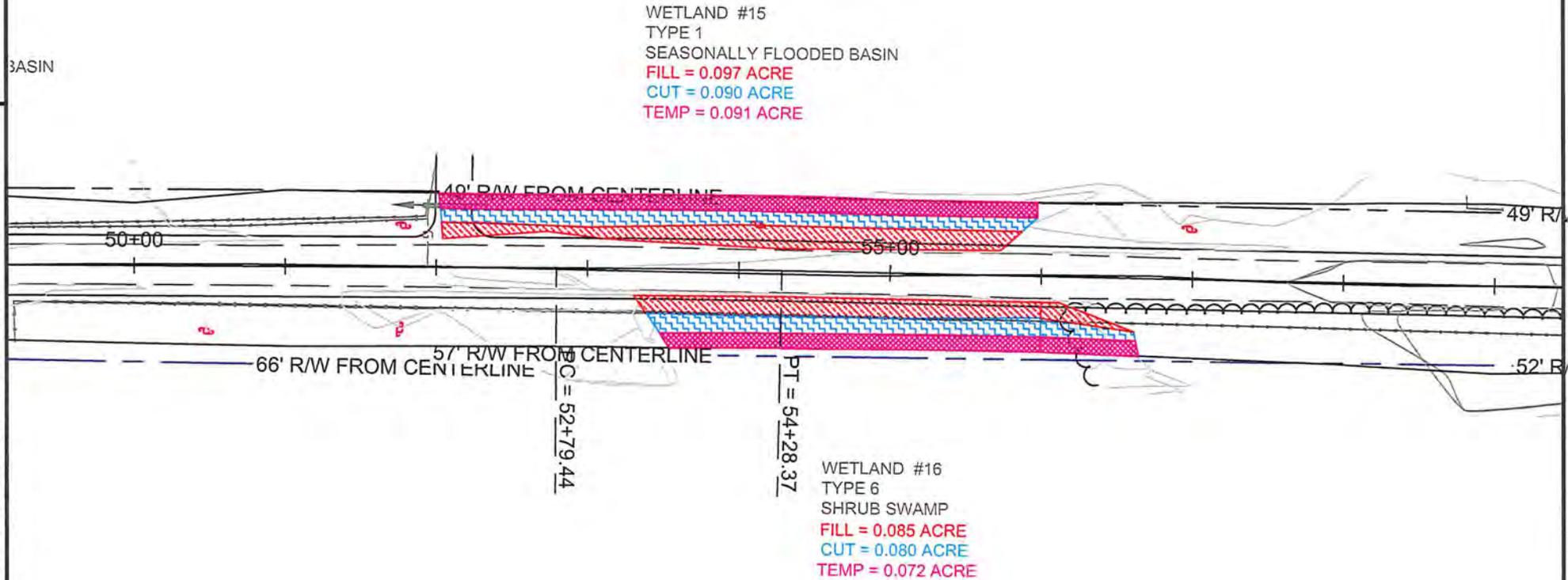
-  - FILL
-  - CUT
-  - TEMP

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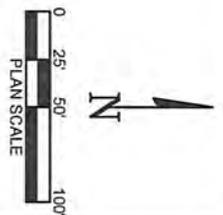
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WETLAND IMPACT KEY

	- FILL
	- CUT
	- TEMP



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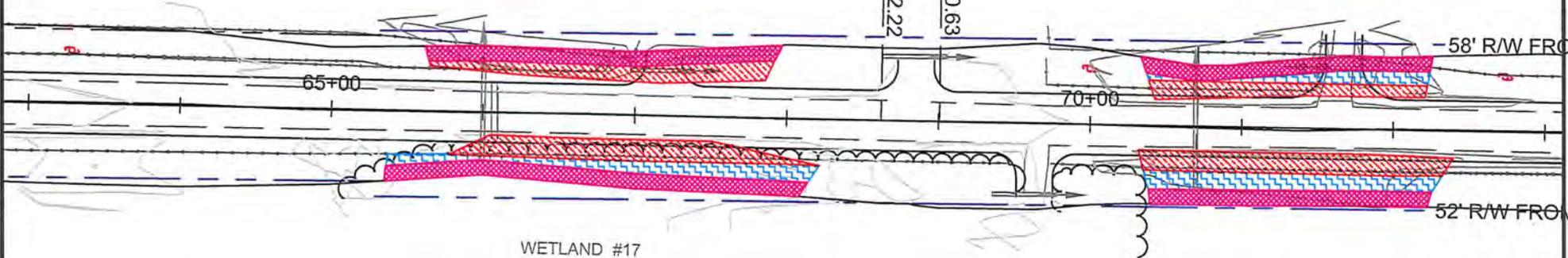
WETLAND #18
 TYPE 1
 SEASONALLY FLOODED BASIN
 FILL = 0.049 ACRE
 TEMP = 0.053 ACRE

WETLAND #20
 TYPE 7
 WOODED SWAMP
 FILL = 0.039 ACRE
 CUT = 0.023 ACRE
 TEMP = 0.042 ACRE

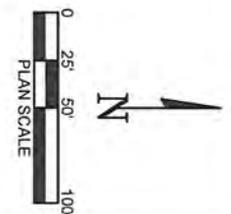
WETLAND #17
 TYPE 6
 SHRUB SWAMP
 FILL = 0.102 ACRE
 CUT = 0.021 ACRE
 TEMP = 0.089 ACRE

WETLAND #19
 TYPE 6
 SHRUB SWAMP
 FILL = 0.061 ACRE
 CUT = 0.051 ACRE
 TEMP = 0.042 ACRE

PT = 69+00.63
 PC = 68+62.22



WETLAND IMPACT KEY
 - FILL
 - CUT
 - TEMP



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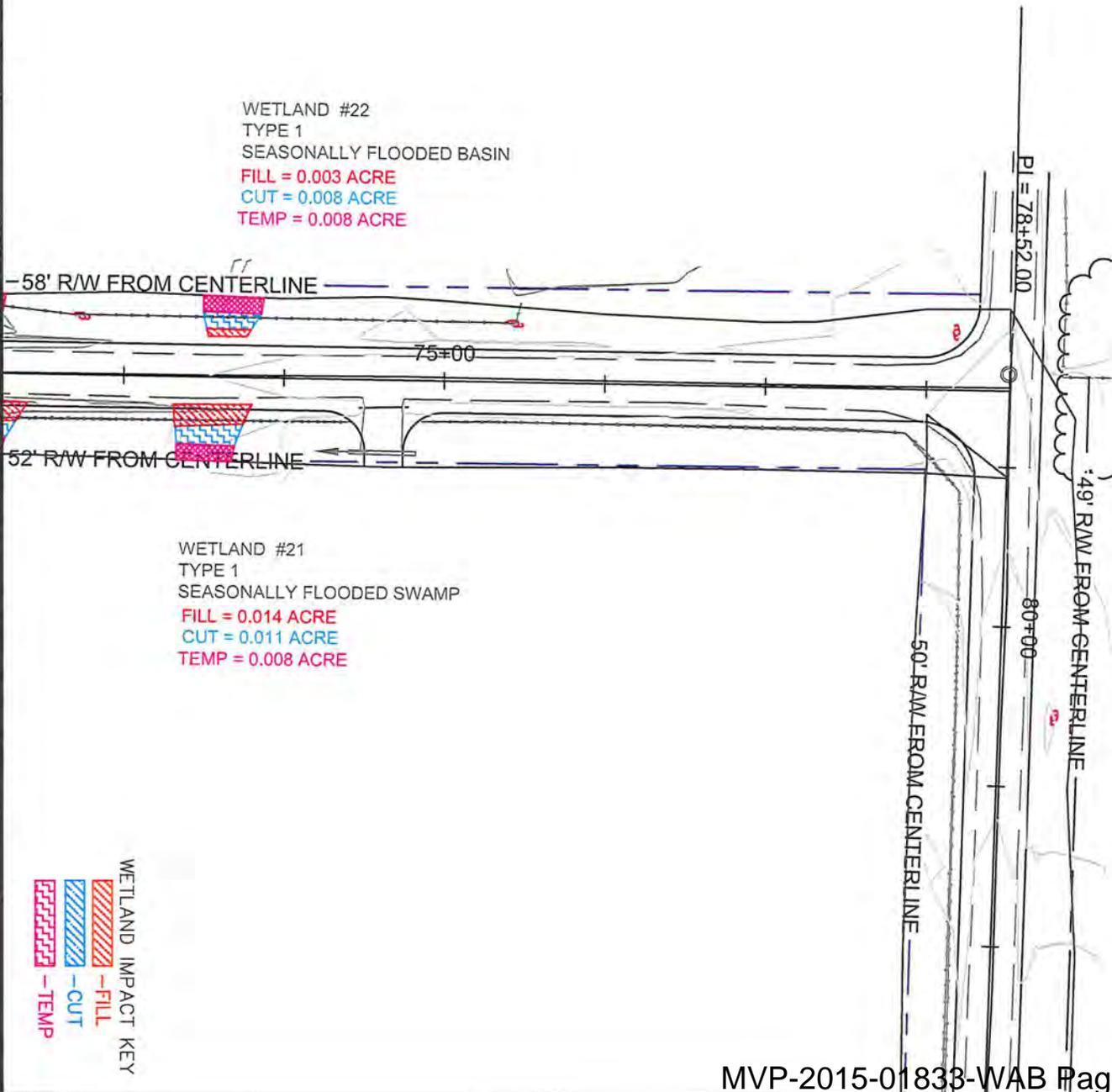
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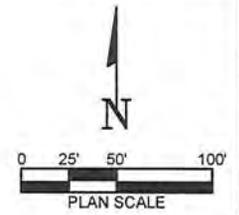
WETLAND #22
 TYPE 1
 SEASONALLY FLOODED BASIN
 FILL = 0.003 ACRE
 CUT = 0.008 ACRE
 TEMP = 0.008 ACRE

WETLAND #21
 TYPE 1
 SEASONALLY FLOODED SWAMP
 FILL = 0.014 ACRE
 CUT = 0.011 ACRE
 TEMP = 0.008 ACRE

WETLAND IMPACT KEY

-  - FILL
-  - CUT
-  - TEMP





WETLAND #24
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.032 ACRE
TEMP = 0.016 ACRE

WETLAND #25
TYPE 1
SEASONALLY FLOODED BASIN
FILL = 0.012 ACRE
CUT = 0.010 ACRE
TEMP = 0.008 ACRE

WETLAND #23
TYPE 7
WOODED SWAMP
FILL = 0.041 ACRE
TEMP = 0.020 ACRE

50' R/W FROM CENTERLINE

90+00

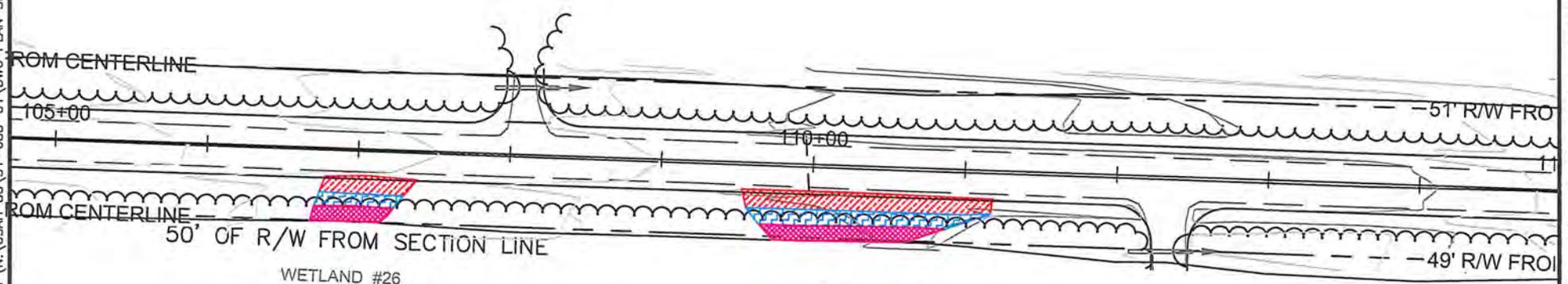
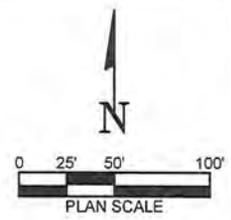
95+00

49' R/W FROM CENTERLINE

WETLAND IMPACT KEY

-  - FILL
-  - CUT
-  - TEMP

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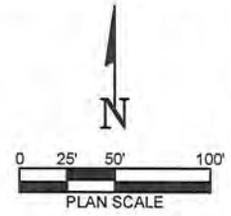


WETLAND #26
TYPE 6
SHRUB SWAMP
FILL = 0.015 ACRE
CUT = 0.010 ACRE
TEMP = 0.011 ACRE

WETLAND #27
TYPE 6
SHRUB SWAMP
FILL = 0.043 ACRE
CUT = 0.034 ACRE
TEMP = 0.024 ACRE

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

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WETLAND #28
TYPE 6
SHRUB SWAMP
FILL = 0.043 ACRE
CUT = 0.004 ACRE
TEMP = 0.028 ACRE

PC = 125+61.22

PJ = 127+07.42

WETLAND #29
TYPE 6
SHRUB SWAMP
FILL = 0.010 ACRE
CUT = 0.015 ACRE
TEMP = 0.014 ACRE

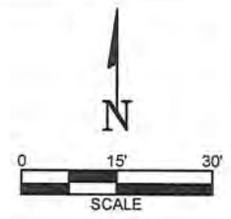
STA. 128+00.00
END PROJECT

50' R/W



WETLAND IMPACT KEY
- FILL (red hatched)
- CUT (blue hatched)
- TEMP (pink hatched)

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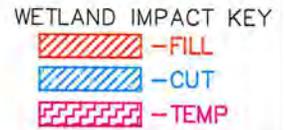
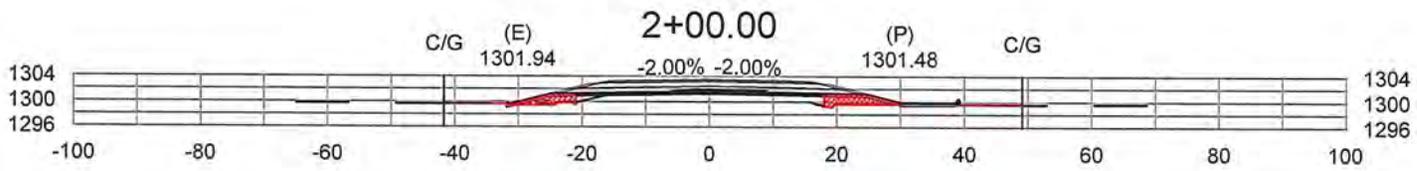
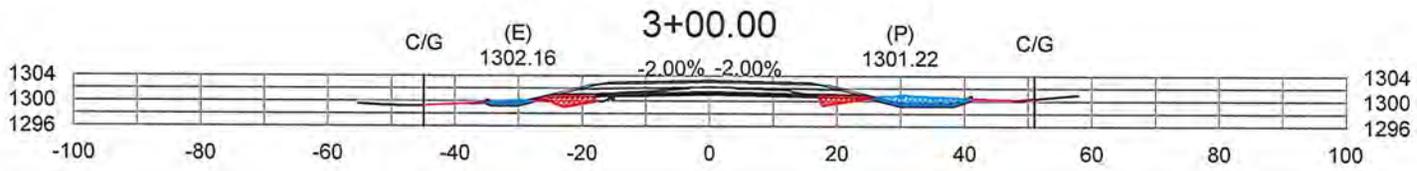
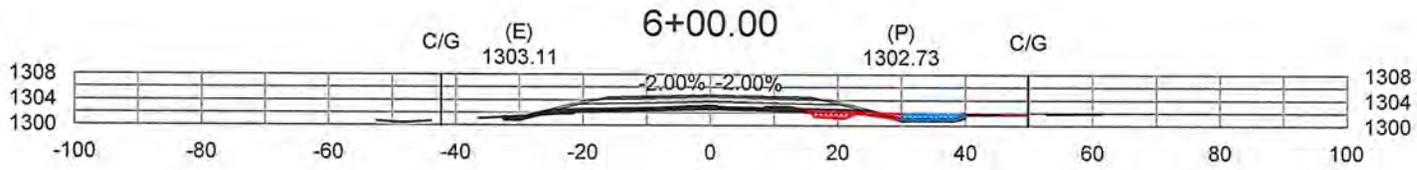
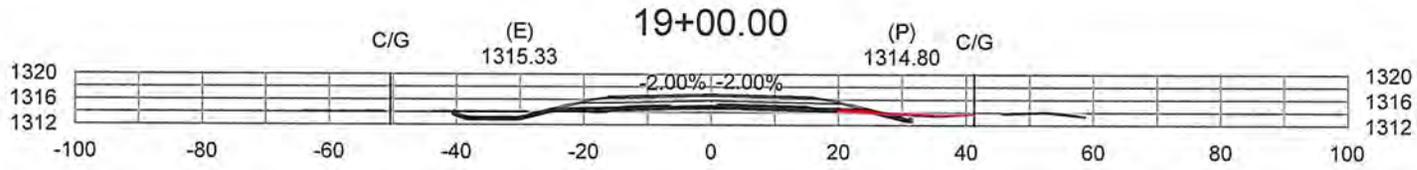


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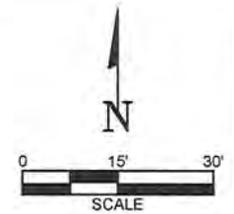
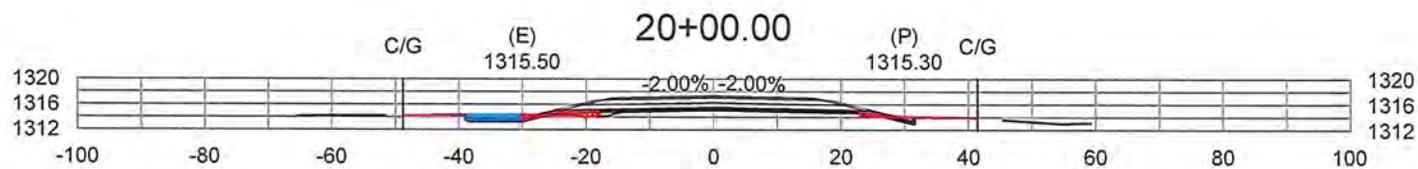
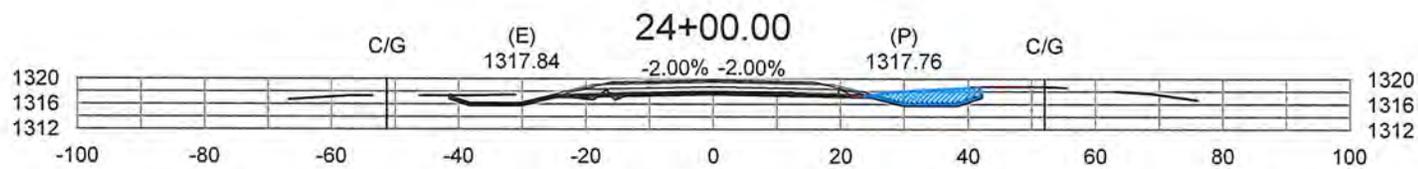
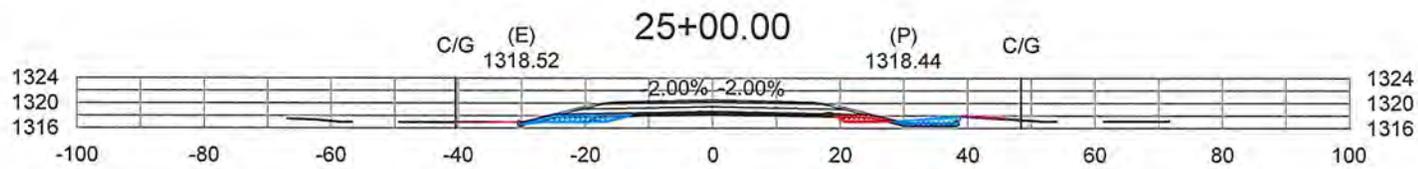
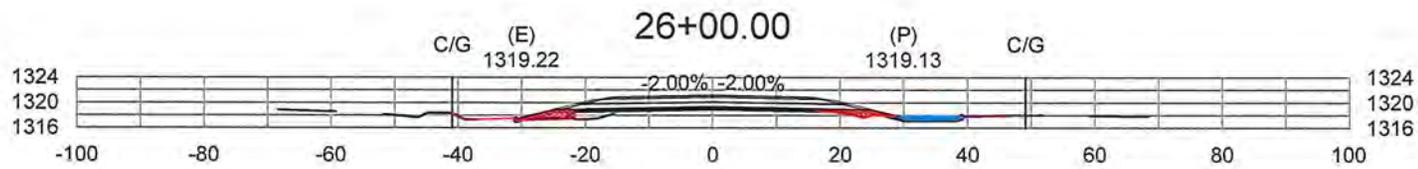
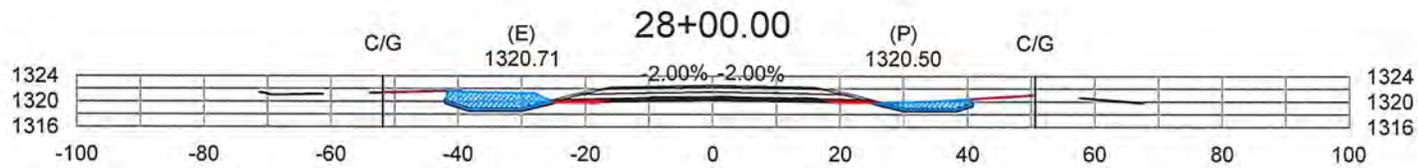
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DATE: 5-21-2015

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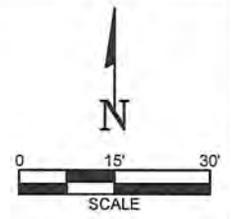
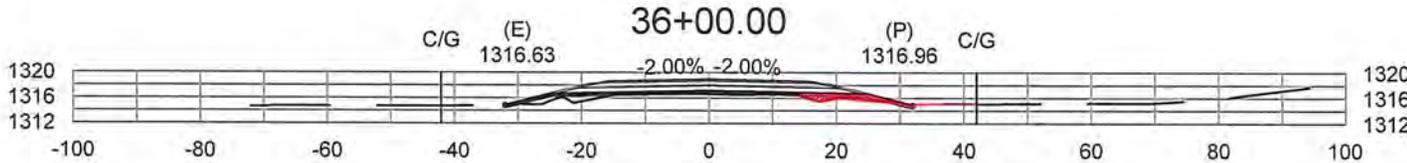
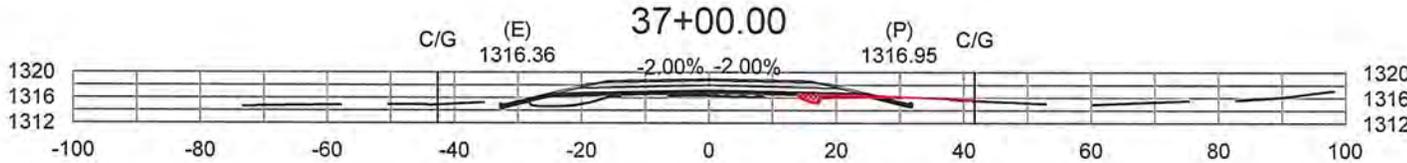
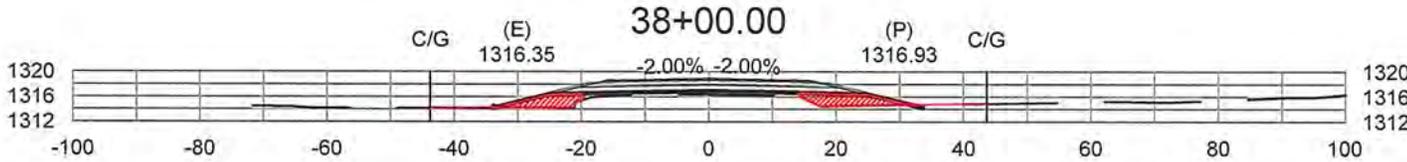
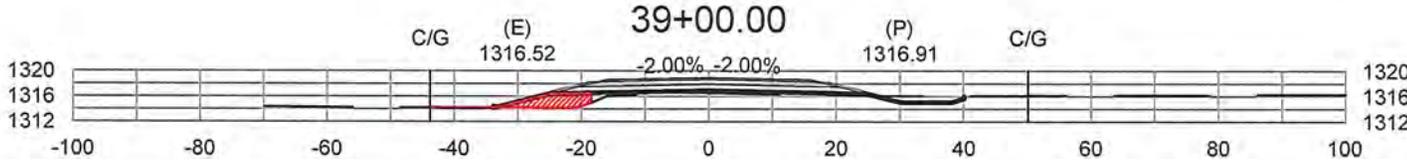
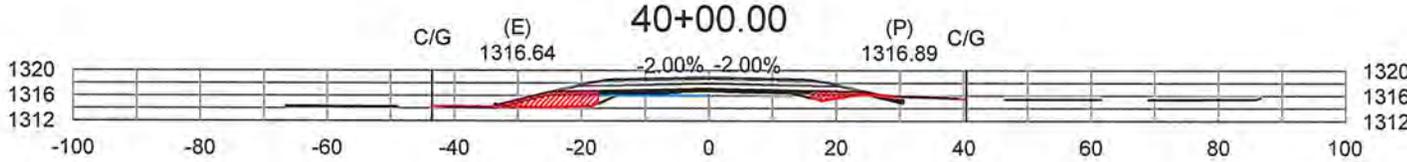


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WETLAND IMPACT KEY
 -FILL
 -CUT
 -TEMP

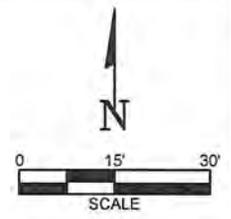
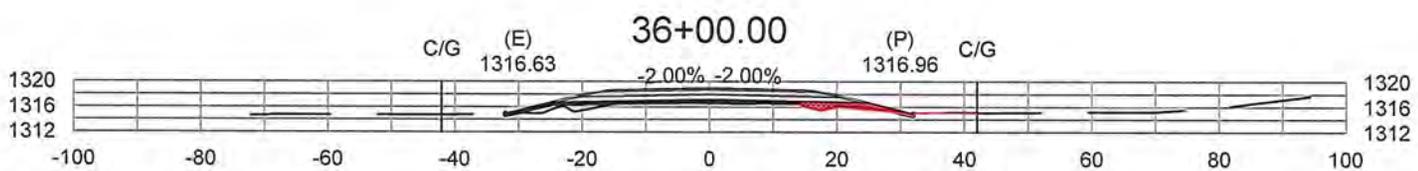
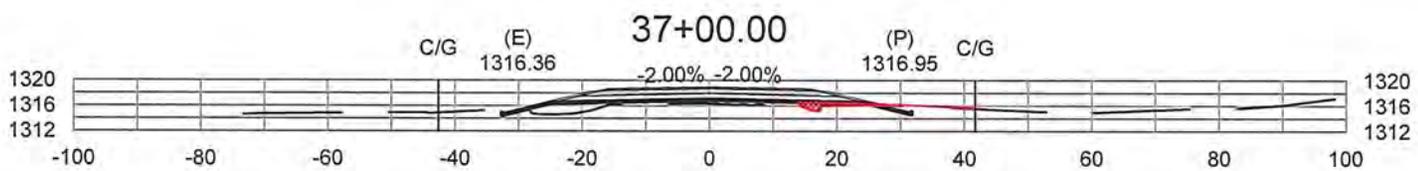
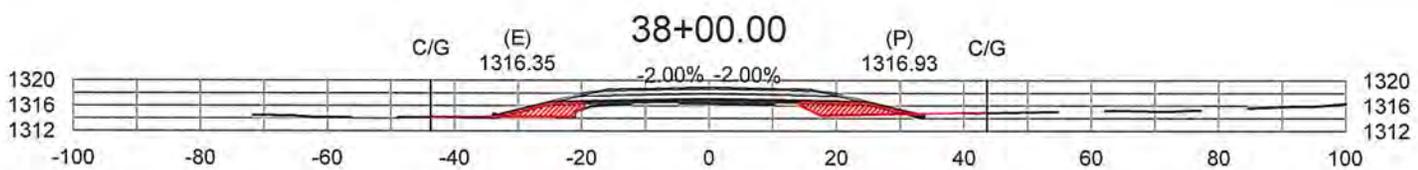
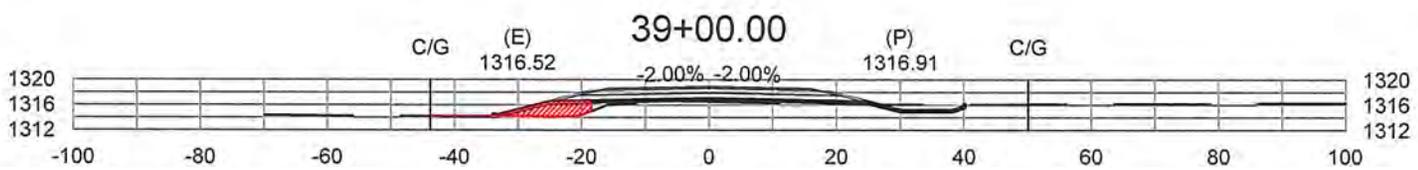
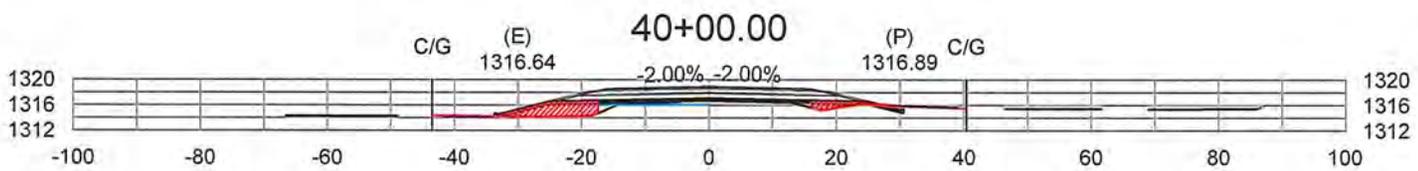
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WETLAND IMPACT KEY

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- CUT
- TEMP

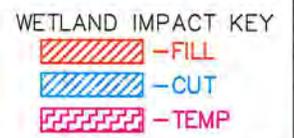
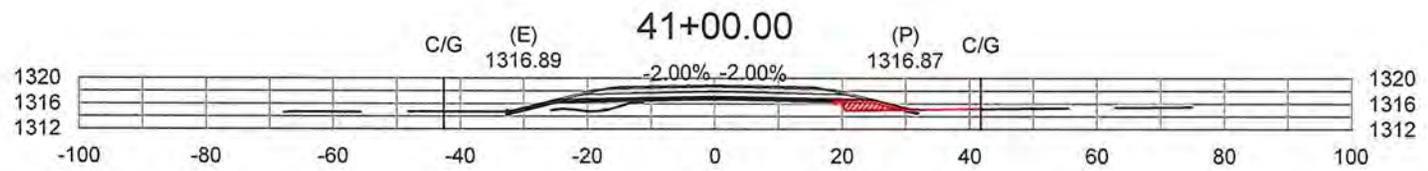
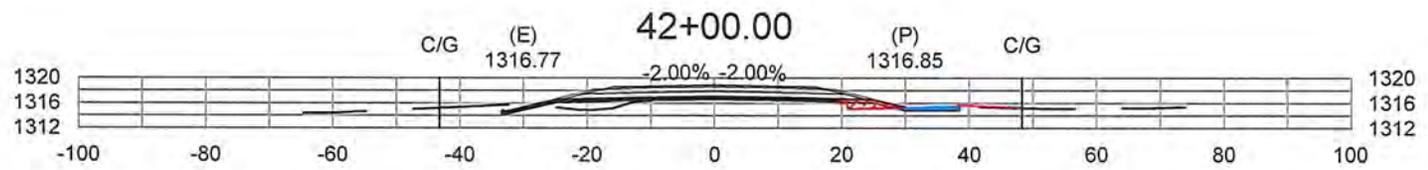
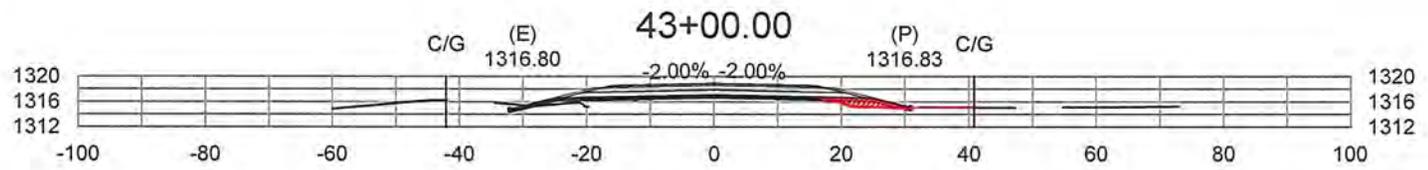
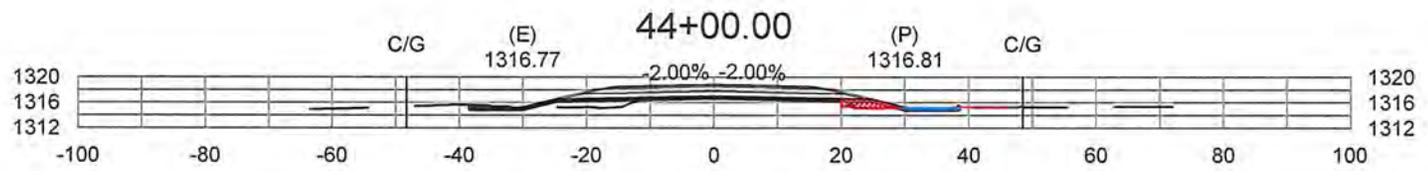
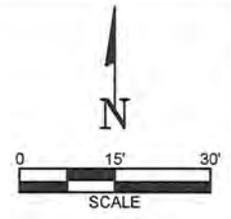
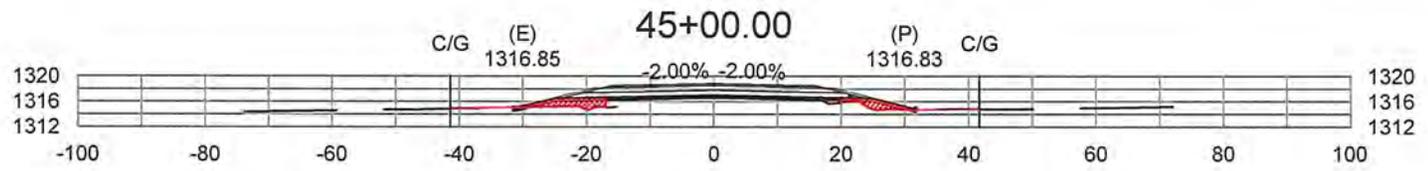
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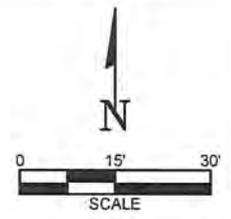
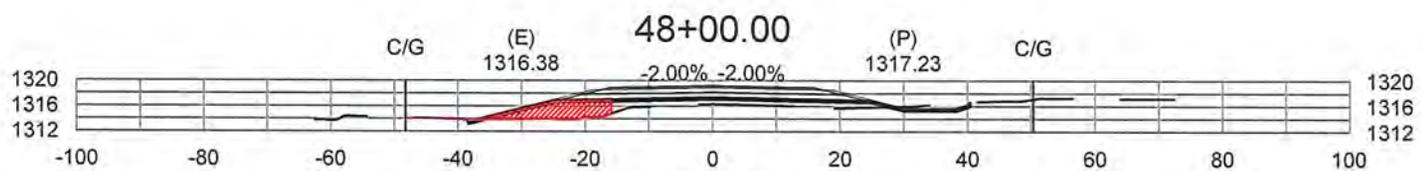
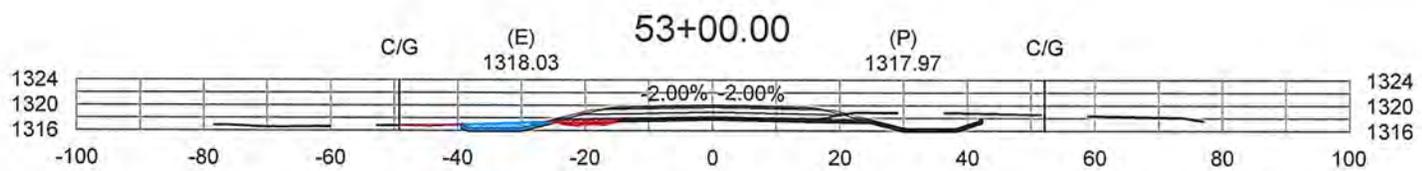
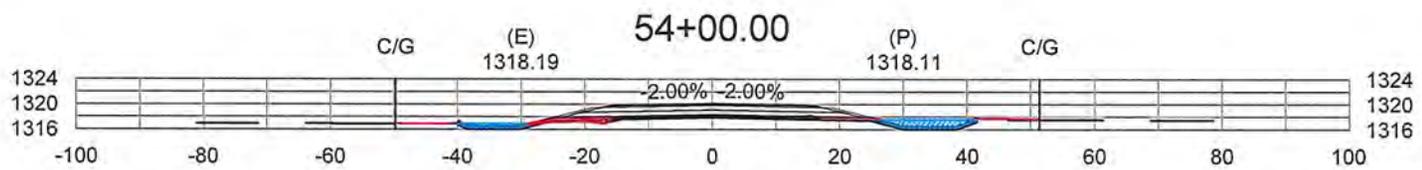
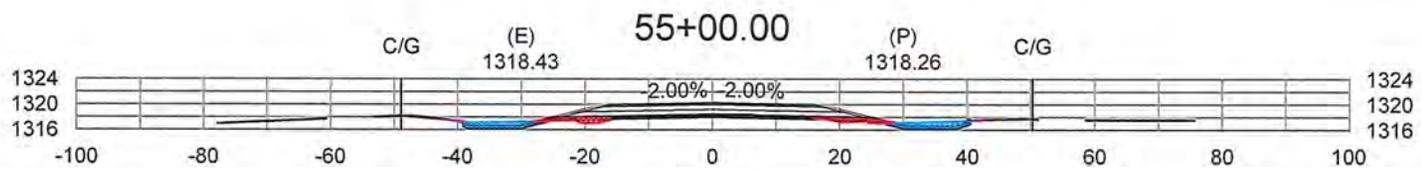
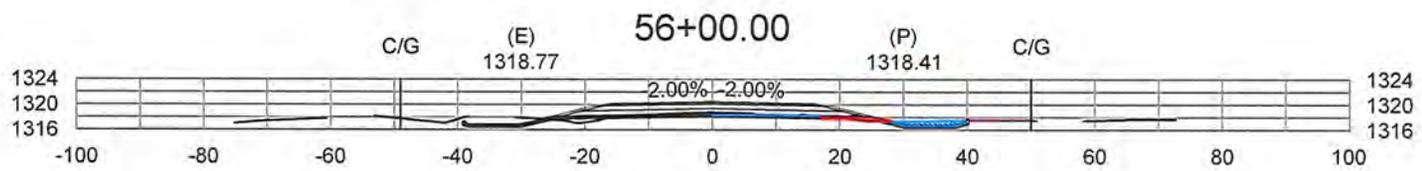
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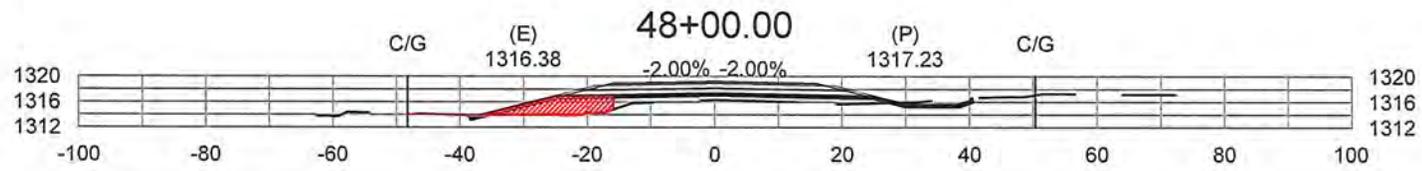
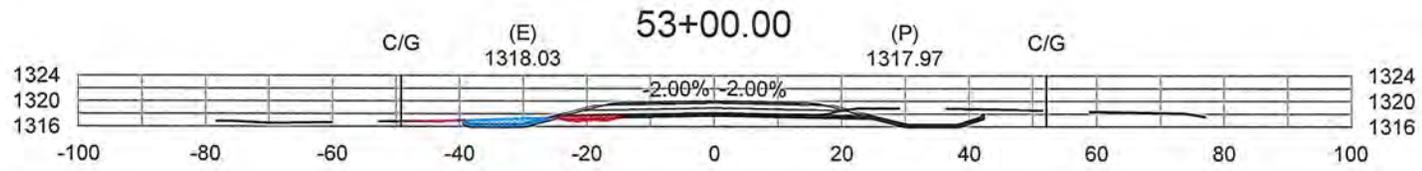
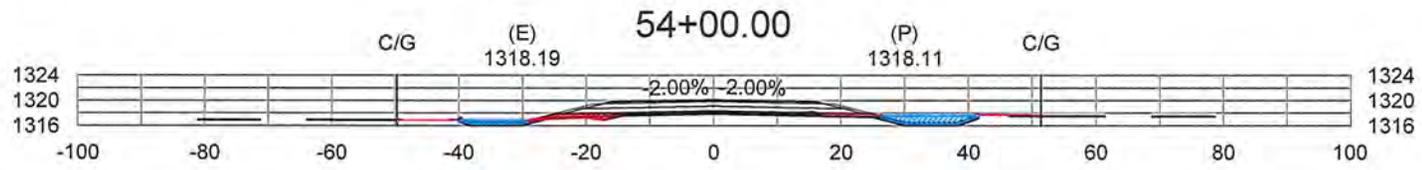
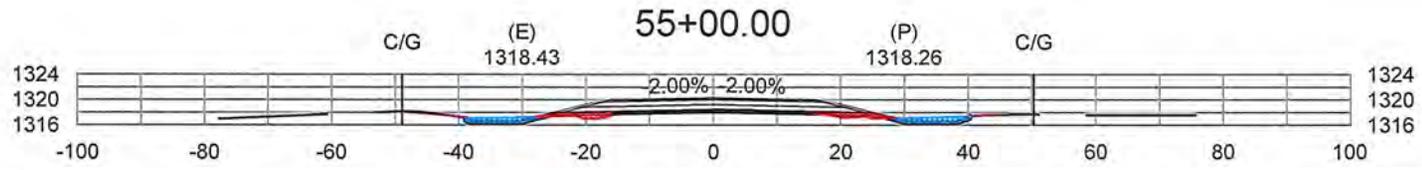
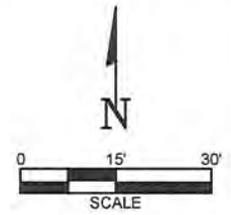
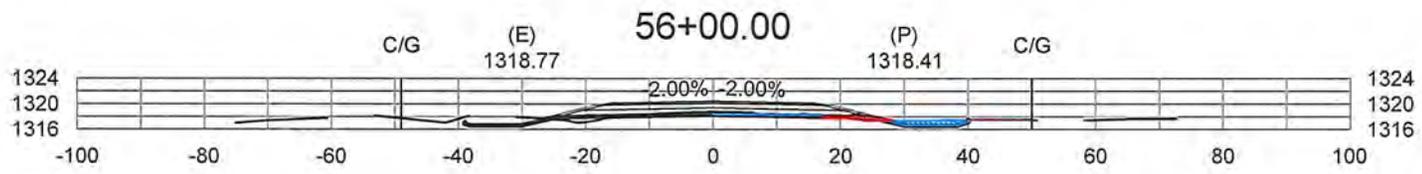
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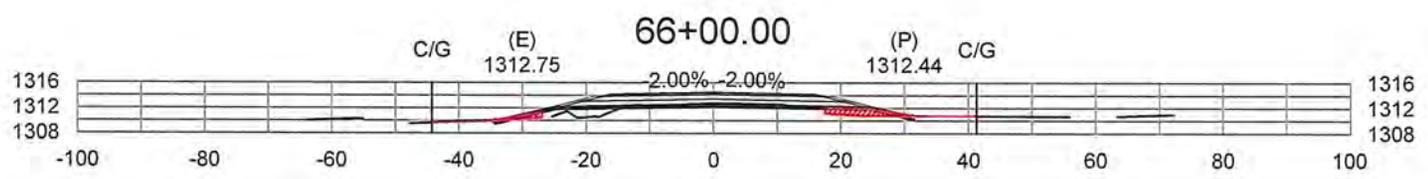
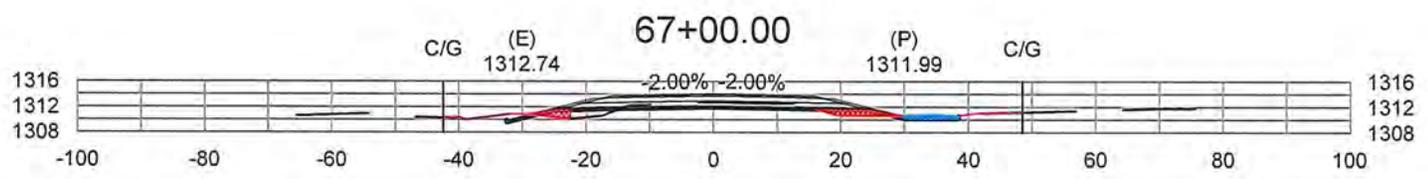
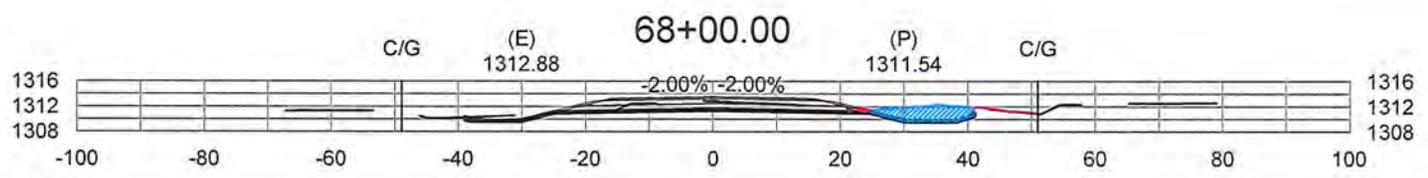
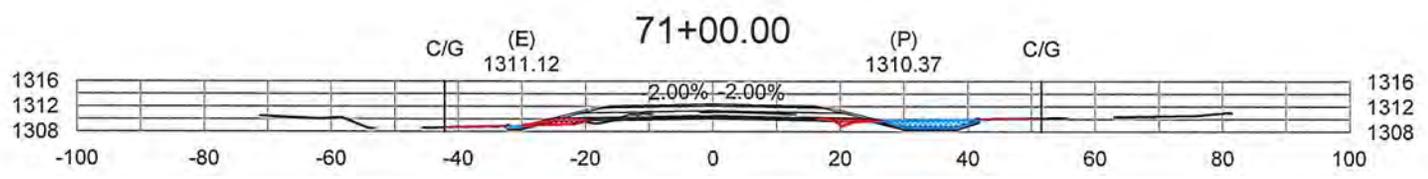
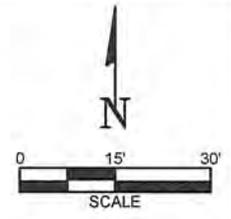
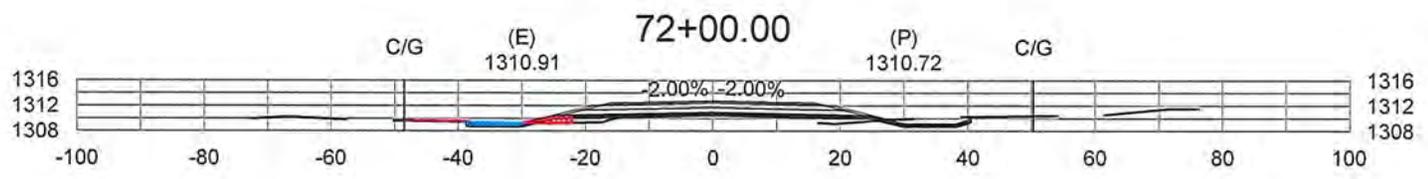
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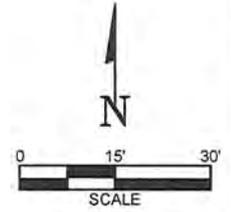
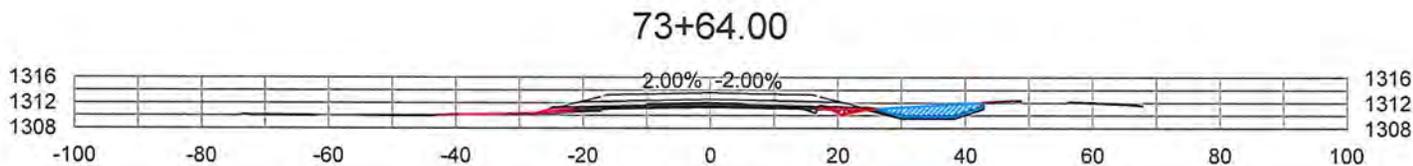
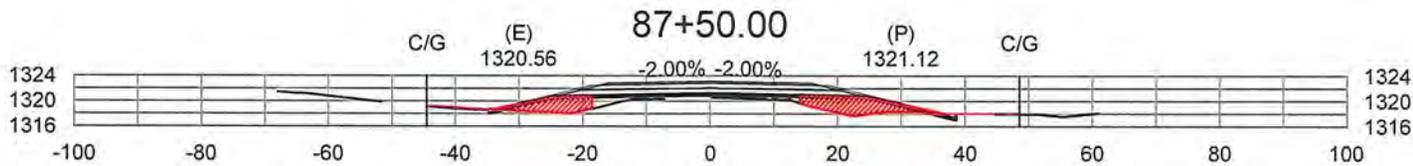
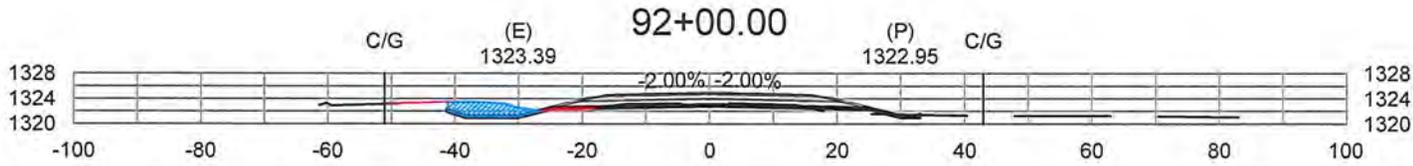
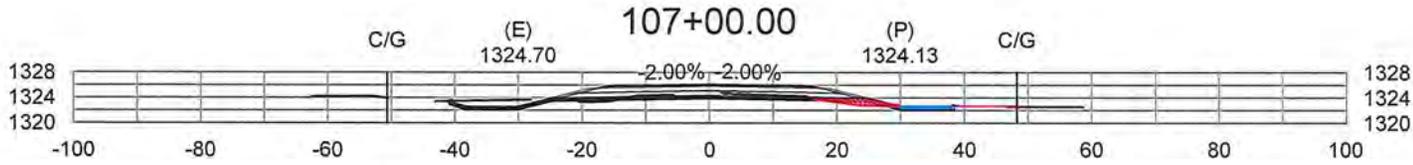
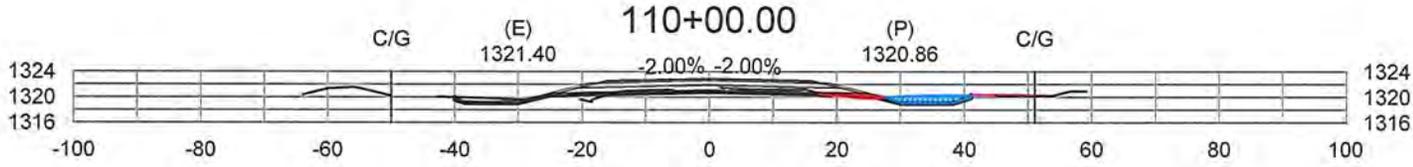


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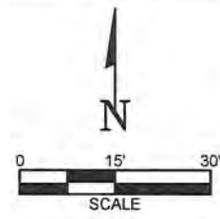
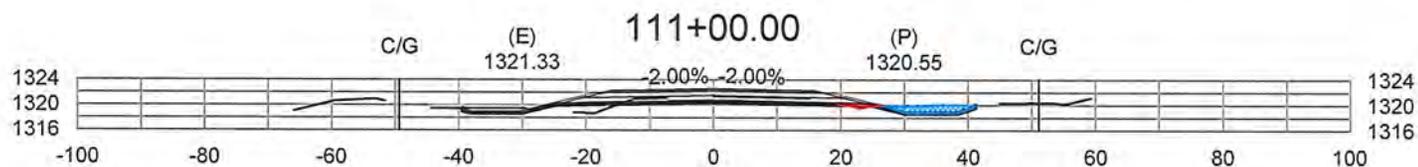
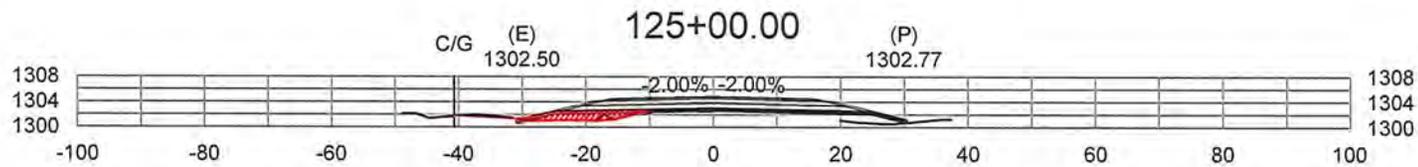
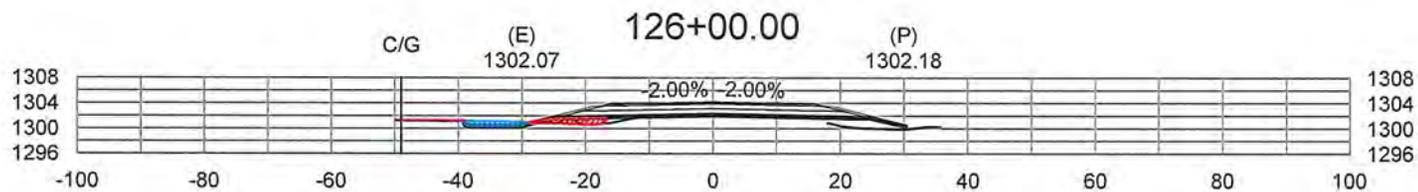
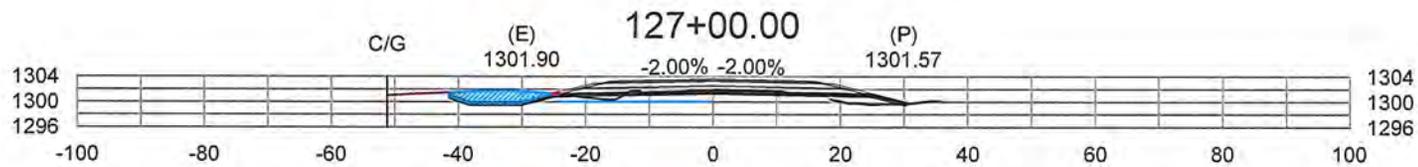
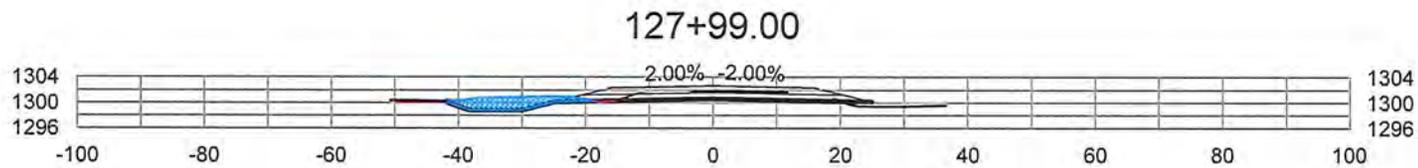
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