Information for File #2014-02295-WAB

Applicant	Itasca County Highway Department
Corps Contact	Bill Baer
Address	4111 Technology Drive, Suite 295, Bemidji MN 56601
E-Mail	william.a.baer@usace.army.mil
Phone	651-290-5338
Primary County	Itasca
Sec/Township/Range	From the SE, NE, S14, T55N, R22W to the SE, SE, S36, T56N, R22W
Information Complete On	July 24, 2014
Posting Expires On	September 26, 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 water body/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 approximately 2.5 miles of Itasca County State Aid Highway (CSAH) 16 near Goodland, Minnesota to current design standards for a 10-ton roadway. The road segment is in poor condition, with deteriorated pavement, sub-grade failures, and limited shoulder width. Current in-slopes on the east side at the north end of the project are considered dangerous due to excessively steep in-slope angles.

Project Description: The applicant proposes to reconstruct approximately 2.5 miles of CSAH 16 to include two twelve-foot driving lanes, four foot wide shoulders, ditch improvements and a short realignment near the north end to avoid wetlands and excessively steep slopes. In-slopes of 1:4 (V:H) will be constructed within the recovery area (27 feet from centerline) and decreased to 1:3 beyond the recovery area to reduce wetland impacts. The project includes realignment of a segment near the north end,

moving the road 30 feet to the west, to avoid hazardous slopes on the east side. Two existing centerline culverts in the realigned section would be removed.

Temporary berm piles, erosion control blankets, silt fencing, and bio rolls would be utilized for erosion control where each option is best suited. Berm piles will be used to retain water where a hill meets a ditch bottom. Erosion control blankets and bio rolls will be used in ditch bottoms and on steep back-slopes to impede fast moving water. Silt fencing will be primarily used in areas where water flow is concentrated and near wetlands.

Name, Area and Types of waters (including wetlands) subject to loss: The project would result in a total of 1.96 acres of wetland impacts in 36 locations due to excavation (0.16 acres), permanent fill (0.97 acres), and temporary fill (0.83 acres). The temporary fill is associated with the temporary storage of topsoil along the outer portion of the construction corridor and erosion control berms during construction. The project would have 1.13 acres of permanent wetland impacts from fill and cut, including: 0.28 acres of seasonally flooded wetland, 0.09 acres of shallow marsh, 0.04 acres of shallow open-water wetland, 0.15 acres of shrub swamp, and 0.57 acres of forested swamp.

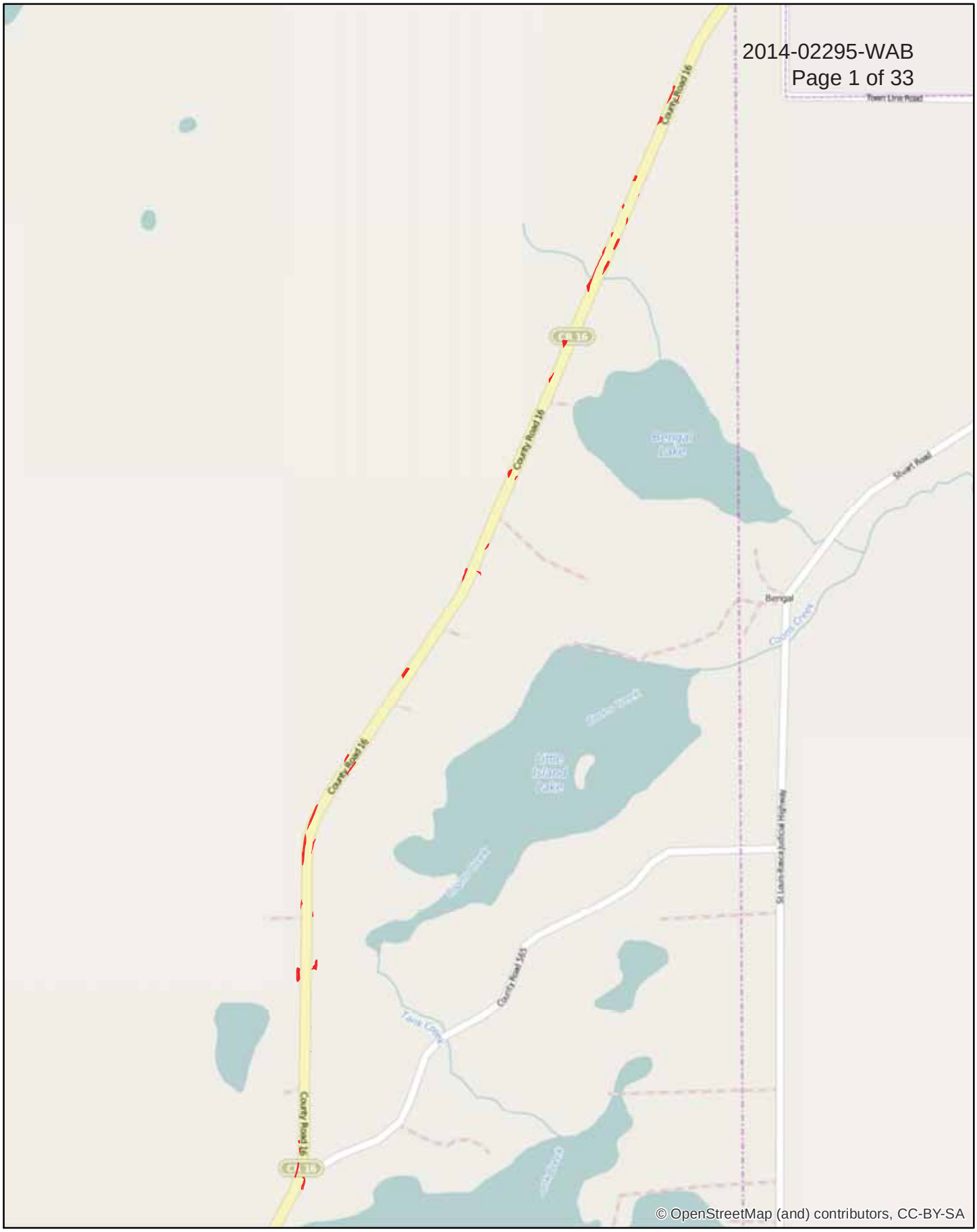
Alternatives considered: The applicant considered a “do-nothing” alternative, which would not address the safety and design problems or the deteriorating condition.

The applicant considered re-routing the road around the 36 wetland locations. This option is not considered feasible due to the number and location of wetlands located along the project. The project is also deemed unsuitable because it would create more turns and corners that would create more safety hazards than the existing condition or the preferred alternative. This alternative would also use less of the existing alignment, which would require additional borrow material and increase project cost.

COMPENSATORY MITIGATION: The project impacts are located in Bank Service Area 1. The applicant has proposed to compensate for 0.99 acres of permanent wetland impacts by debiting credits from the Minnesota Local Government Road Wetland Replacement Program mitigation bank.

Drawings See attached.

Itasca County CSAH 16 wetland impact locations



Legend

Itasca County CSAH 16 Wetlands

0 0.125 0.25 0.5 Miles

CSAH 16 Wetland Impacts - CP1611

Station to Station	Location Number	County	Wetland Type	Wetland Impacts			
				Cut - SF	Fill - SF	Temporary - SF	Total - AC
9+75 - 13+20	1	Itasca	Type 5- Open H20 Wet	0	1632.02	2053.11	0.08
8+82 - 10+09	2	Itasca	Type 7 - Wooded Swamp	0	1890.33	1357.05	0.07
13+02 - 14+40	3	Itasca	Type 7 - Wooded Swamp	0	0	0	0.00
13+59 - 16+94	4	Itasca	Type 7 - Wooded Swamp	0	341.98	261.74	0.01
23+19 - 24+77	5	Itasca	Type 7 - Wooded Swamp	0	0	0.62	0.00
25+37 - 26+23	6	Itasca	Type 7 - Wooded Swamp	0	0	65.55	0.00
30+71 - 32+31	7	Itasca	Type 3 - Shallow Marsh	0	3895.63	1542.15	0.12
31+96-33+15	8	Itasca	Type 7 - Wooded Swamp	0	2625.01	1125.72	0.09
37+99 - 39+53	9	Itasca	Type 6 - Shrub Swamp	0	258.04	878.44	0.03
37+61 - 38+22	10	Itasca	Type 7 - Wooded Swamp	0	74.21	495.72	0.01
43+04 - 49+67	11	Itasca	Type 1 – Seasonally Flooded	0	6051.84	6116.26	0.28
44+36 - 46+09	12	Itasca	Type 7 - Wooded Swamp	0	287.24	1374.39	0.04
54+80 - 55+75	13	Itasca	Type 7 - Wooded Swamp	0	881.88	862.29	0.04
53+93 - 55+59	14	Itasca	Type 6 - Shrub Swamp	0	847.25	1650.96	0.06
57+66 - 58+05	15	Itasca	Type 6 - Shrub Swamp	0	0	140.29	0.00
65+58 - 66+99	16	Itasca	Type 7 - Wooded Swamp	1197.02	0	1066.14	0.05
77+54 - 79+34	17	Itasca	Type 7 - Wooded Swamp	0	1032.40	1460.67	0.06
79+14 - 79+50	18	Itasca	Type 7 - Wooded Swamp	0	581.61	308.67	0.02
81+80 - 82+74	19	Itasca	Type 6 - Shrub Swamp	416.90	0	599.01	0.02
89+85 - 90+91	20	Itasca	Type 6 - Shrub Swamp	1186.76	440.01	484.68	0.05
89+87 - 90+40	21	Itasca	Type 7 - Wooded Swamp	0	244.07	494.80	0.02
100+82 - 101+99	22	Itasca	Type 1 - Seasonally Flooded	0	1938.08	0	0.04
104+79 - 105+69	23	Itasca	Type 1 - Seasonally Flooded	0	2787.24	353.30	0.07
104+89 - 106+17	24	Itasca	Type 7 - Wooded Swamp	0	0	0	0.00
111+28 - 116+75	25	Itasca	Type 7 - Wooded Swamp	1597.15	9404.38	4663.27	0.36

Continued on next page.

Station to Station	Location Number	County	Wetland Type	Wetland Impacts			
				Cut - SF	Fill - SF	Temporary - SF	Total - AC
113+43 - 115+21	26	Itasca	Type 7 - Wooded Swamp	0	2004.70	1643.02	0.08
117+56 - 118+23	27	Itasca	Type 6 - Shrub Swamp	0	541.60	333.63	0.02
116+46 - 117+83	28	Itasca	Type 7 - Wooded Swamp	0	1895.33	1328.25	0.07
119+33 - 119+61	29	Itasca	Type 7 - Wooded Swamp	0	410.38	657.44	0.03
120+77 - 121+47	30	Itasca	Type 7 - Wooded Swamp	413.81	59.65	436.77	0.02
119+97 - 123+07	31	Itasca	Type 7 - Wooded Swamp	0	0	135.86	0.00
123+98 - 124+69	32	Itasca	Type 1 - Seasonally Flooded	1207.8	0	671.24	0.04
129+22 - 129+33	33	Itasca	Type 1 - Seasonally Flooded	0	0	16.38	0.00
130+36 - 131+43	34	Itasca	Type 6 - Shrub Swamp	1098.53	445.46	937.27	0.06
132+83 - 135+00	35	Itasca	Type 6 - Shrub Swamp	111.45	1397.43	2027.03	0.08
133+55 - 134+36	36	Itasca	Type 7 - Wooded Swamp	0	86.11	568.99	0.02

Wetland Impact Summary by Type

Wetland Type	Cut Impacts - AC	Fill Impacts - AC	Temporary - AC	Total - AC (Cut + Fill)
Type 1 - Seasonally Flooded	0.03	0.25	0.16	0.28
Type 3 - Shallow Marsh	0	0.09	0.04	0.09
Type 5- Open H20 Wet	0	0.04	0.05	0.04
Type 6 - Shrub Swamp	0.06	0.09	0.16	0.15
Type 7 - Wooded Swamp	0.07	0.50	0.42	0.57
			Total Area of Wetlands Impacted:	**1.13 Acres**

WETLAND IMPACT REPORT FOR CP–1611

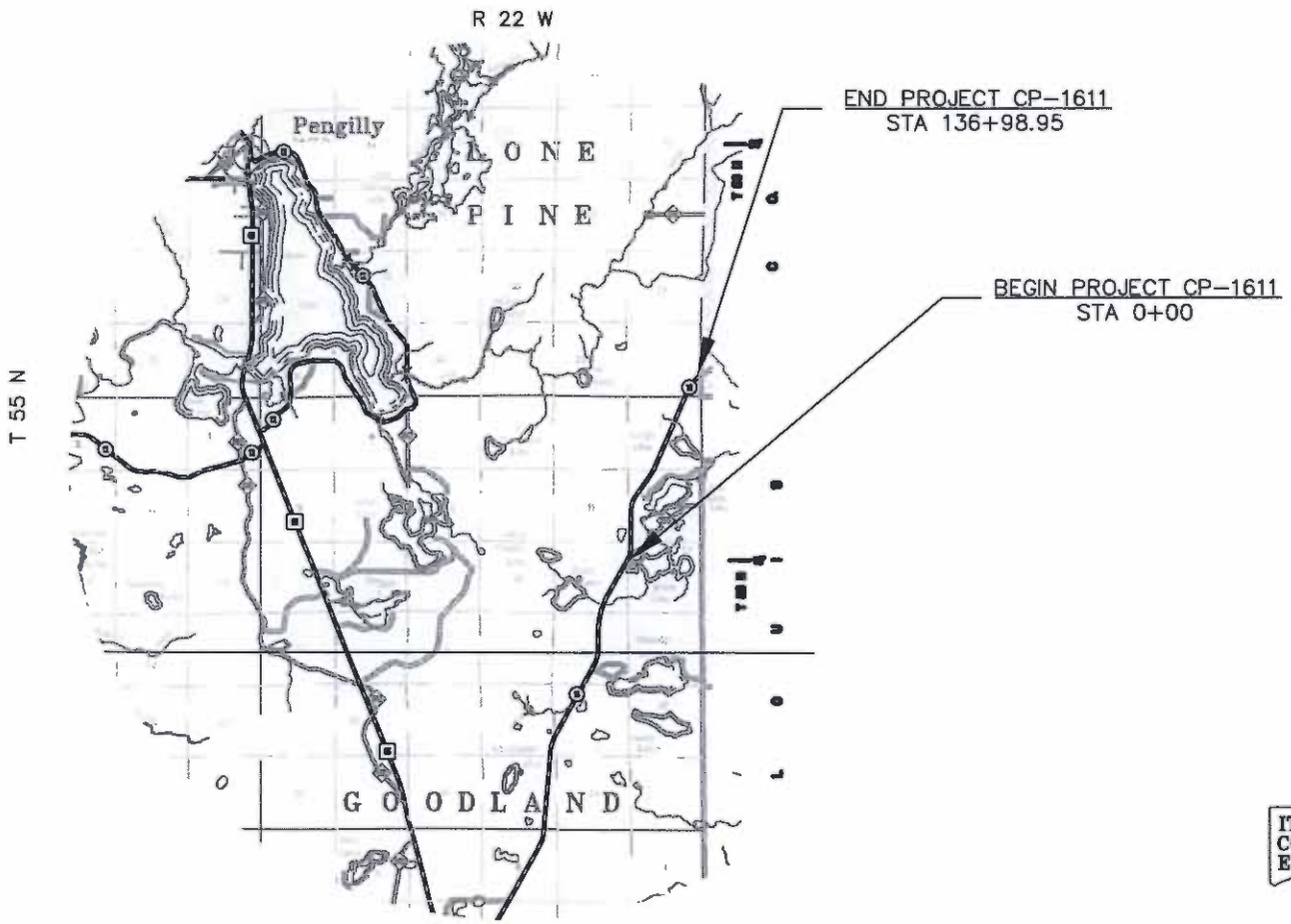
ITASCA COUNTY HIGHWAY DEPARTMENT

CONSTRUCTION PROJECT TYPE: GRADING AND BASE

LOCATED ON CSAH 16 BETWEEN TANK LAKE ROAD AND COUNTY ROAD 502 (GEOGRAPHIC DESCRIPTION)

FROM THE SE ¼ NE ¼ OF SEC. 14 TWP 55 RGE 22 TO THE SE ¼ SE ¼ OF SEC. 36 TWP 56 RGE 22 AND (LEGAL DESCRIPTION)

PROJECT: CP 31–616–11



ITASCA COUNTY ENGINEERING DEPT.
Grand Rapids Minnesota

PLANS SYMBOLS

UTILITIES SYMBOLS

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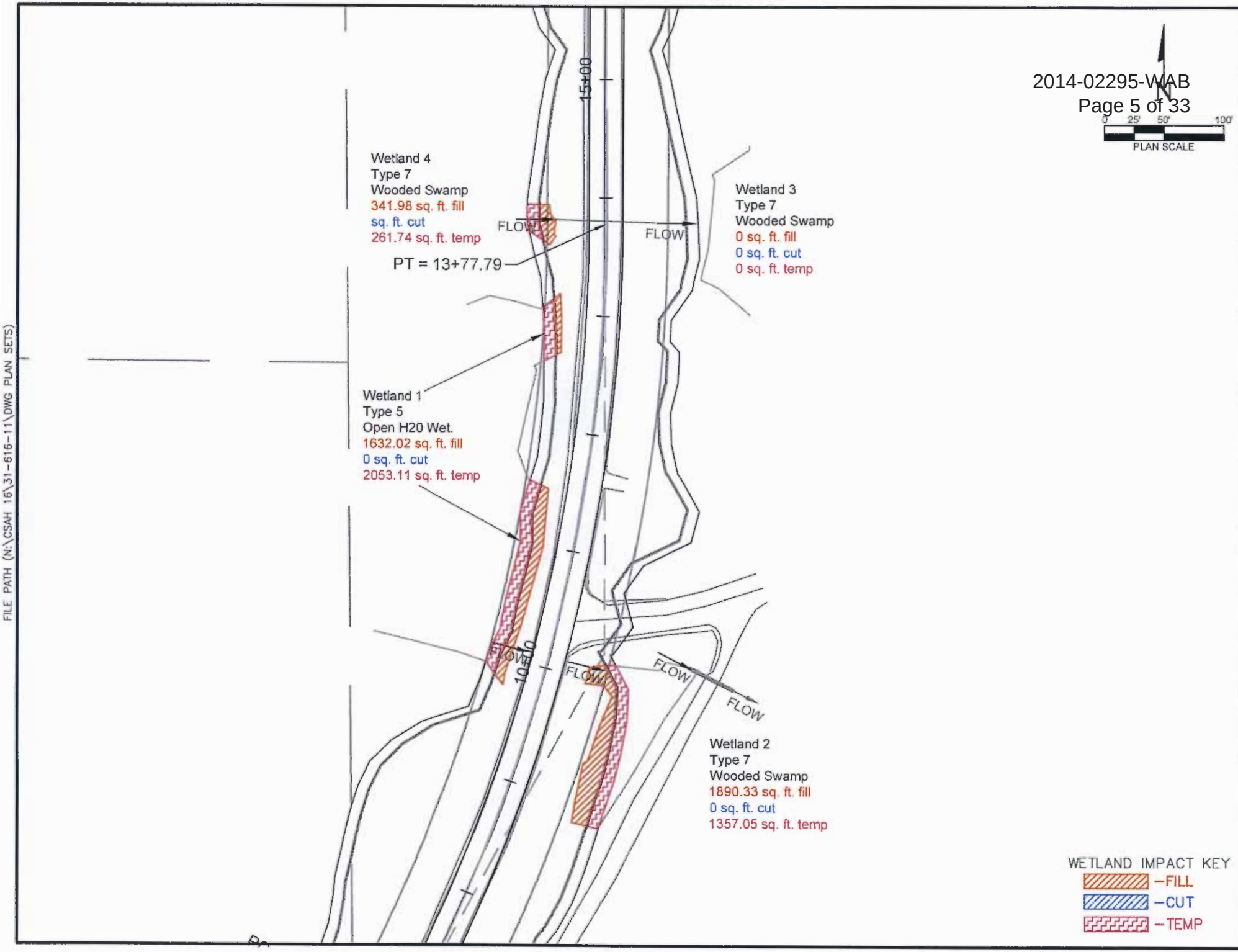

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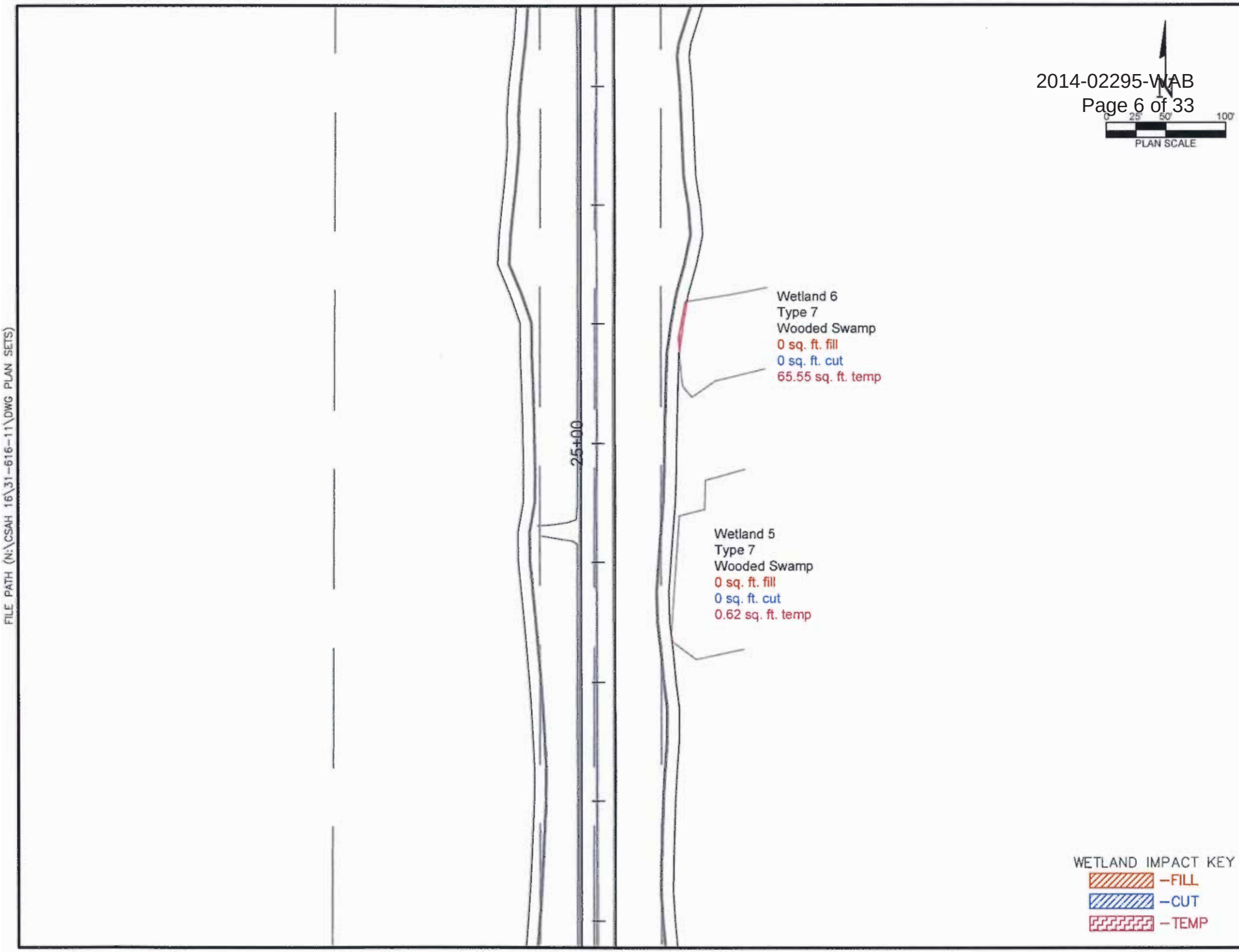

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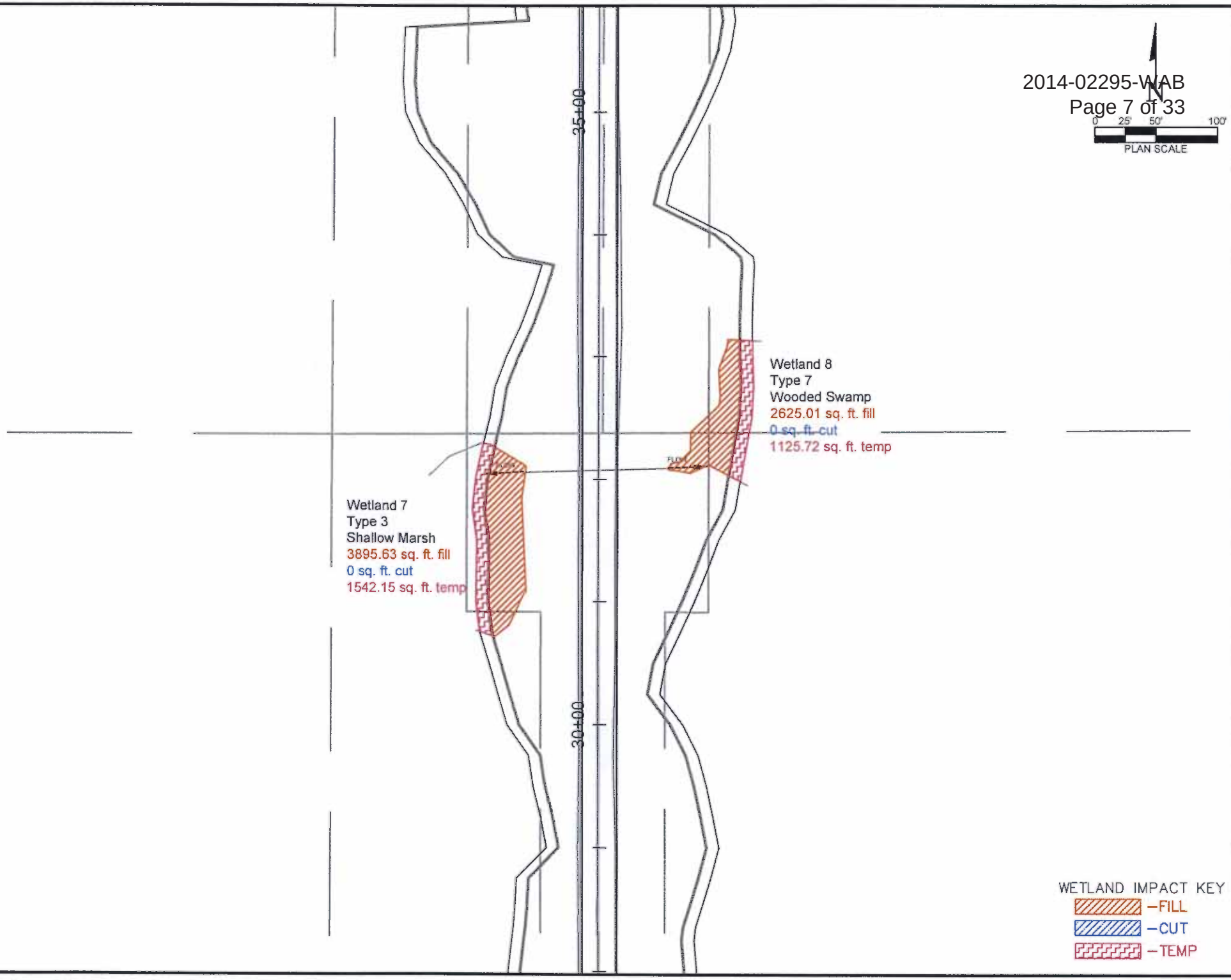

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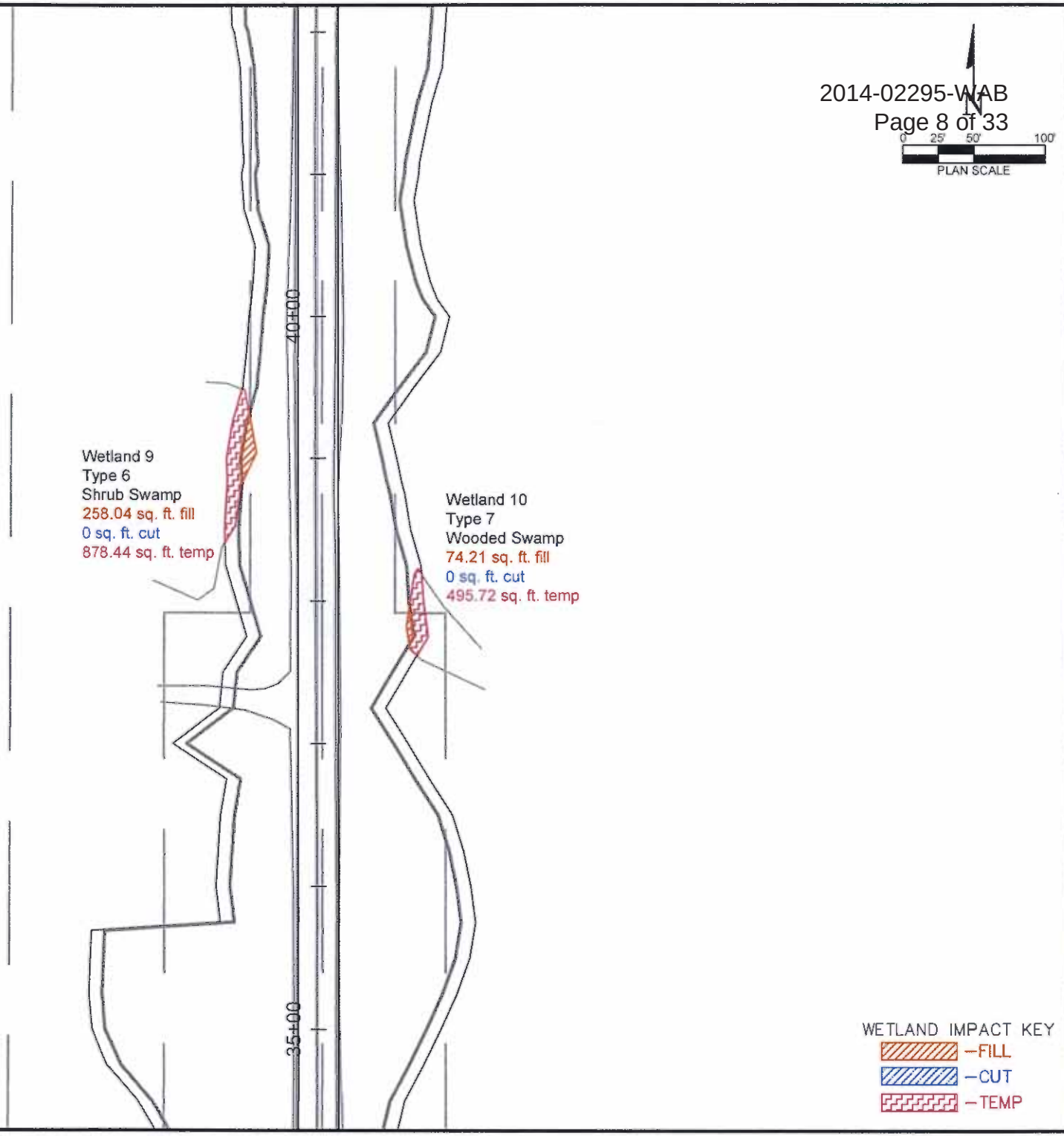

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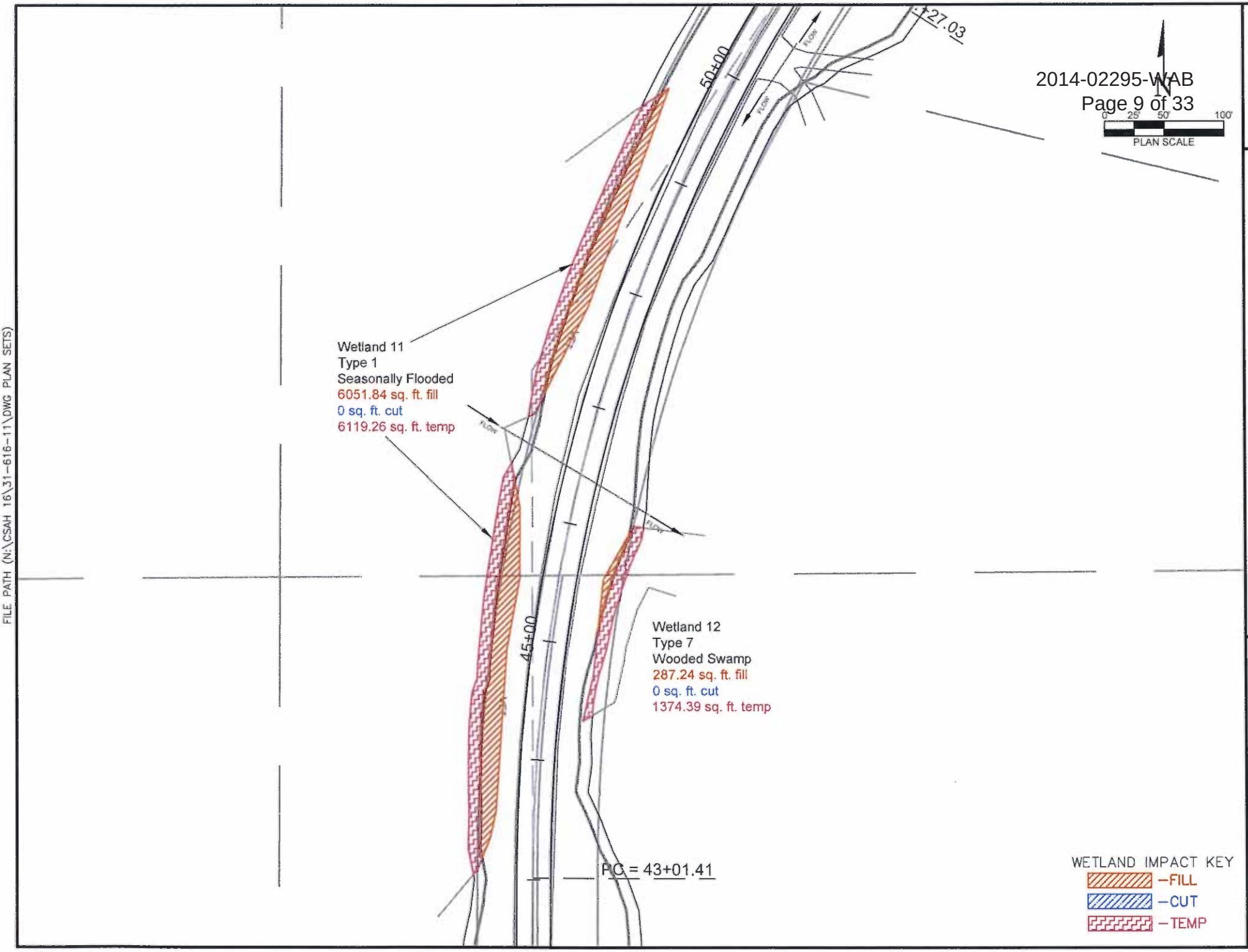

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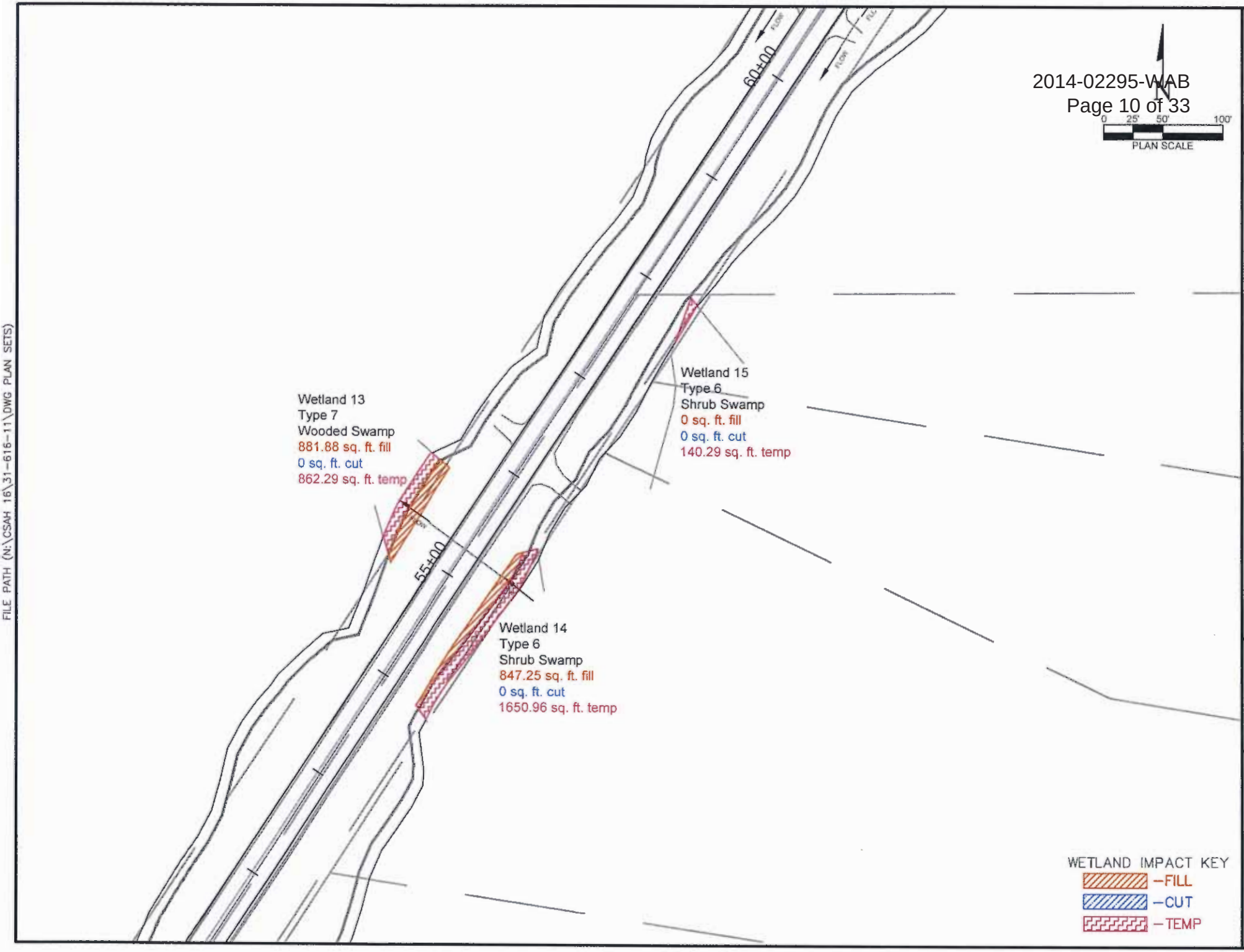

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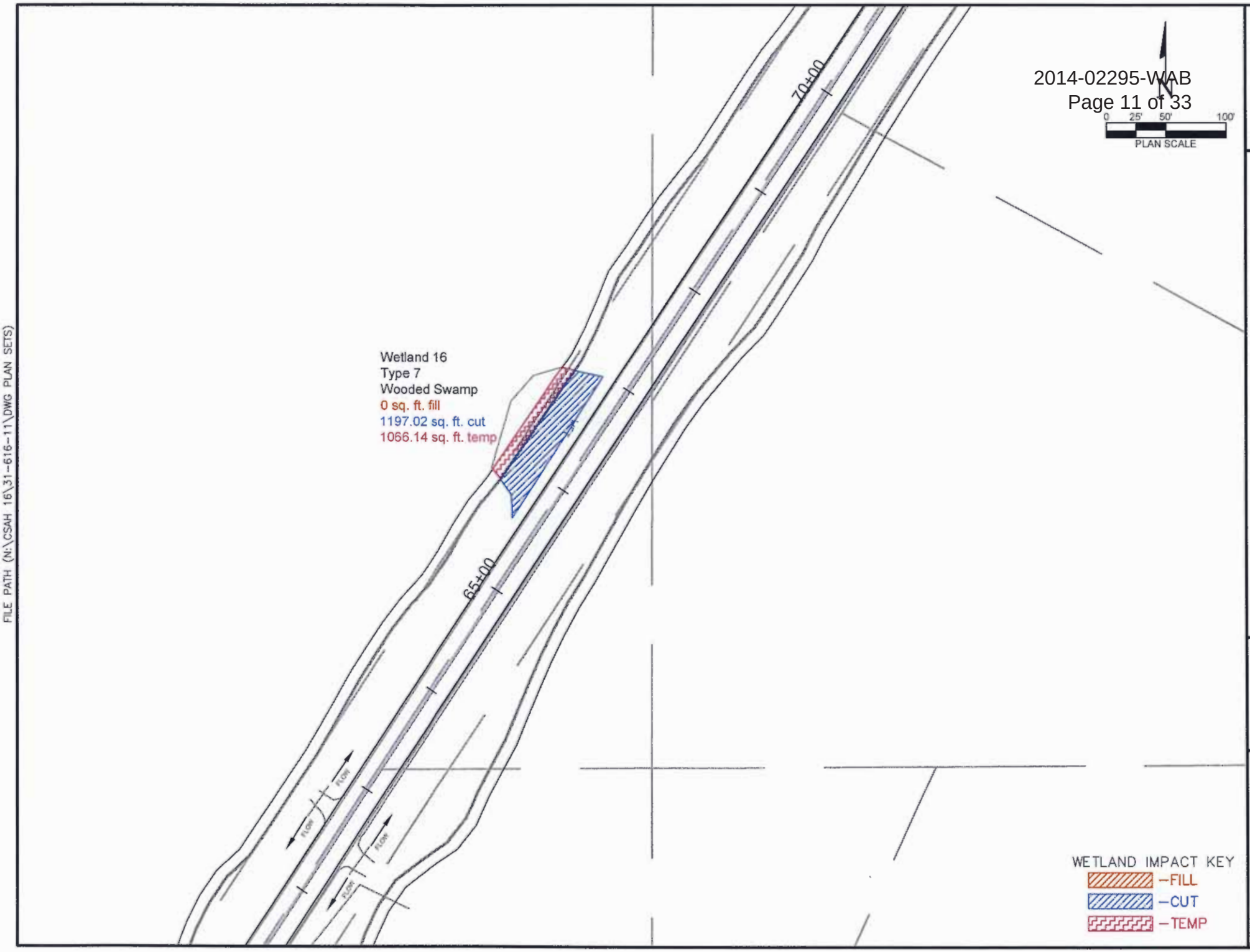

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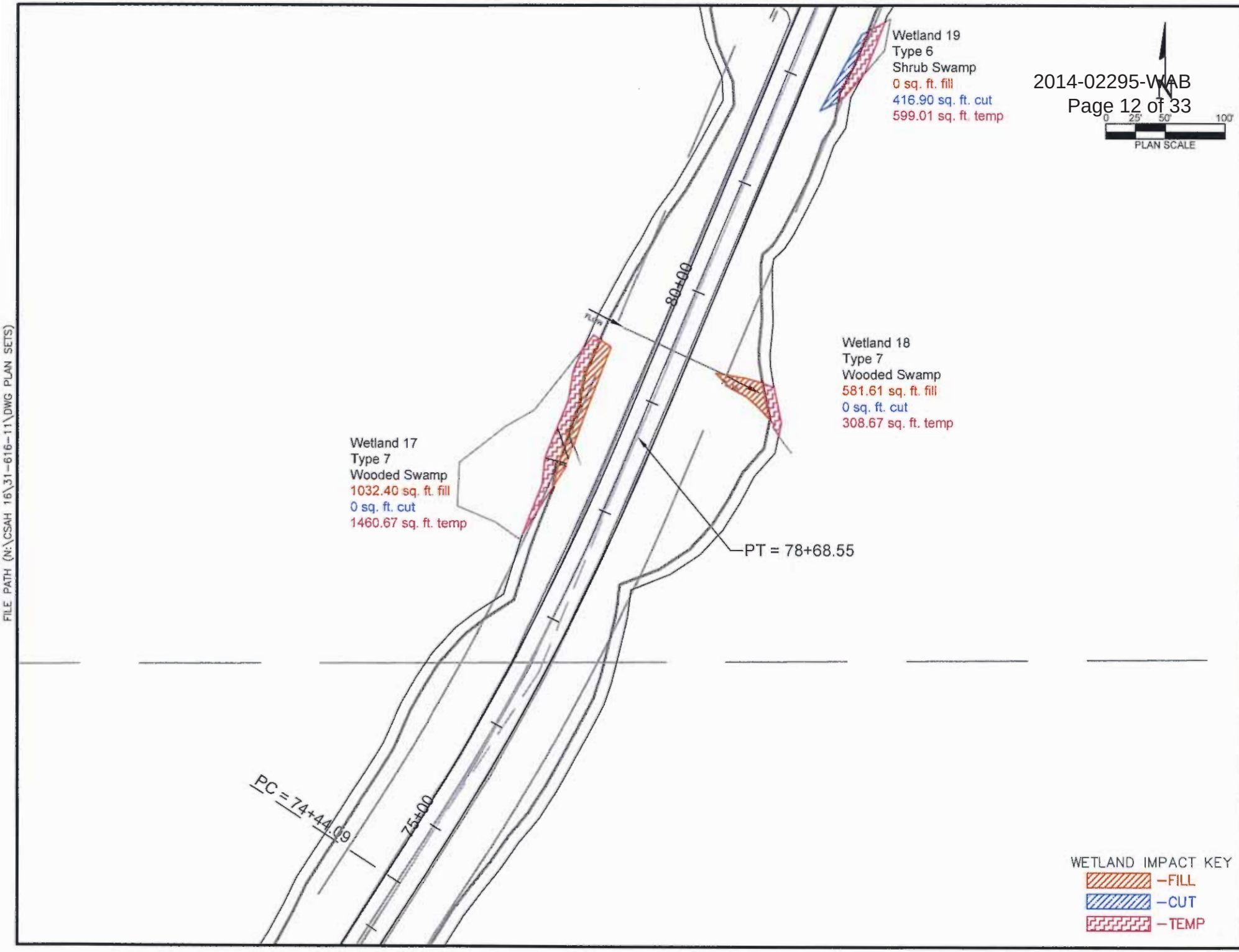

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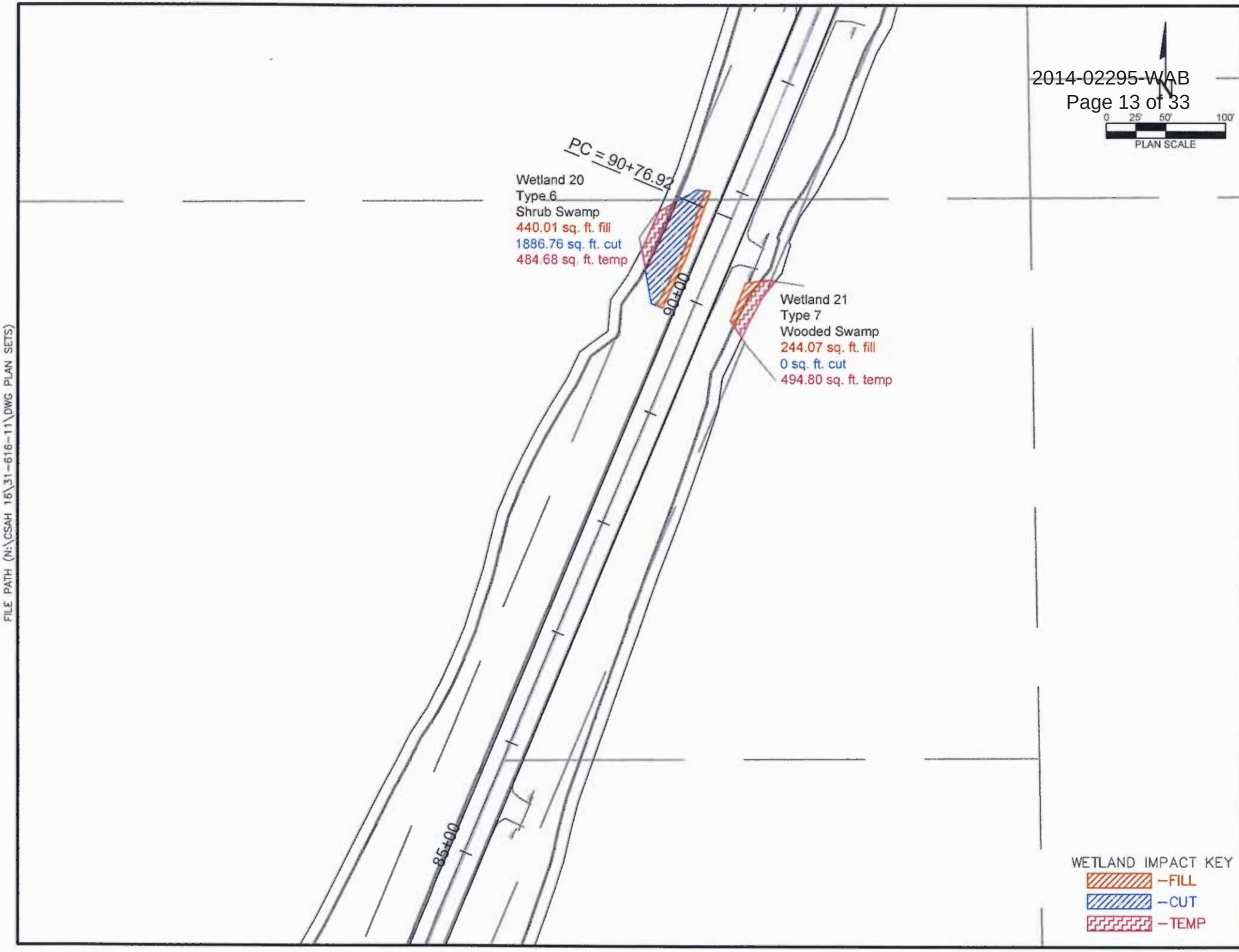

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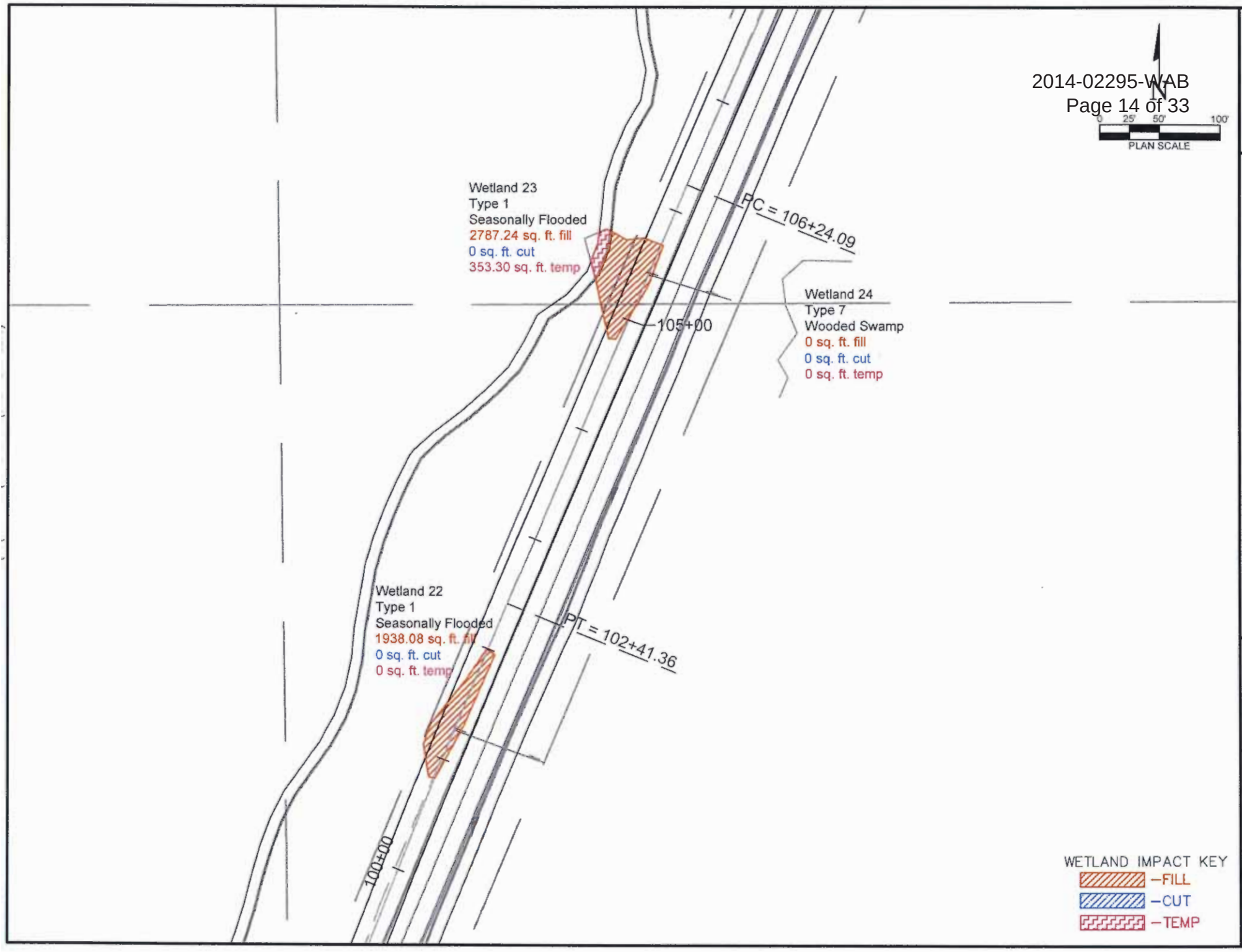

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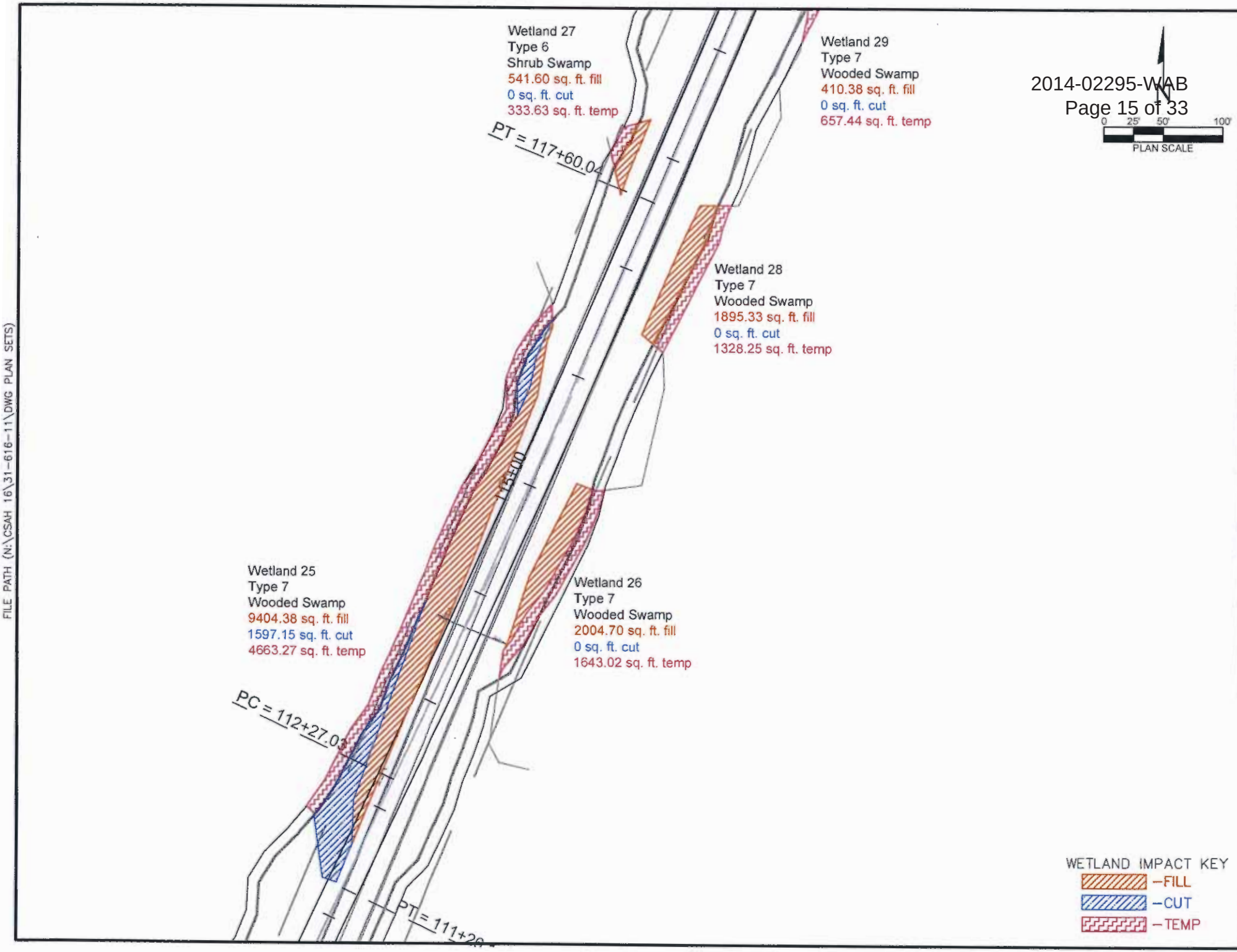

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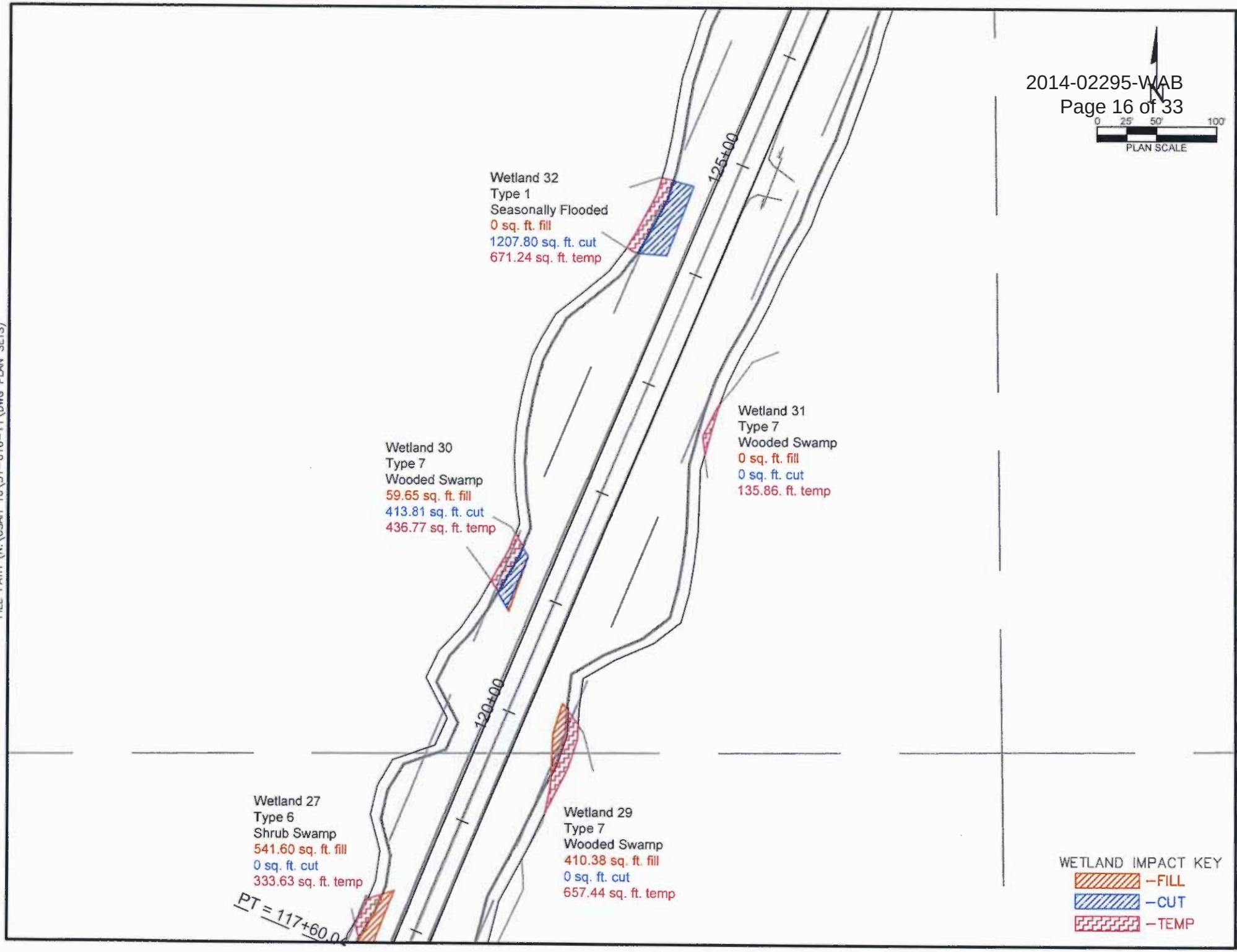

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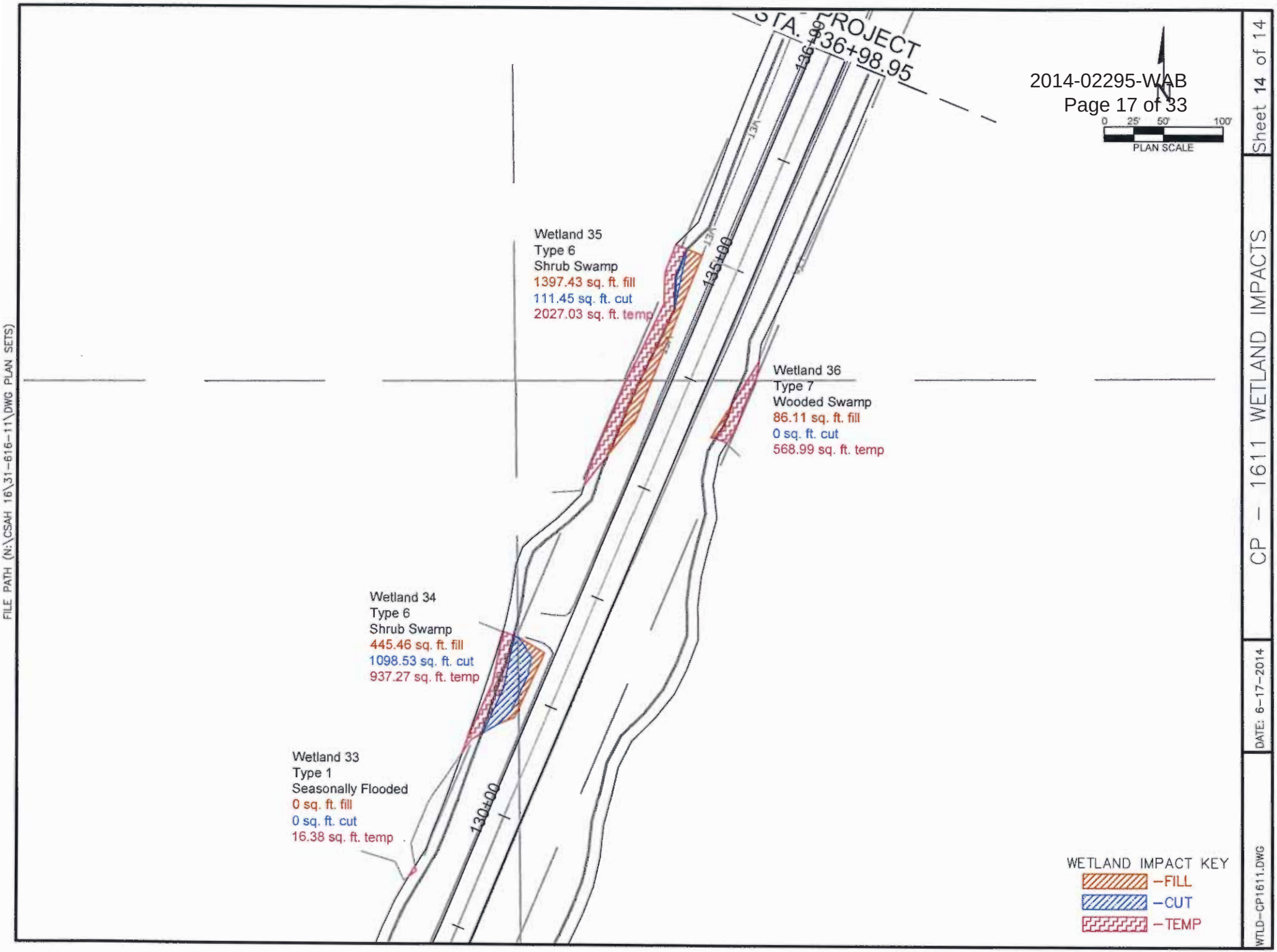

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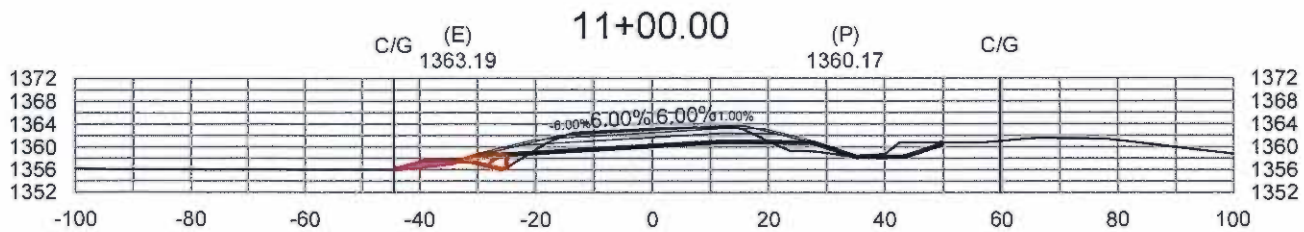

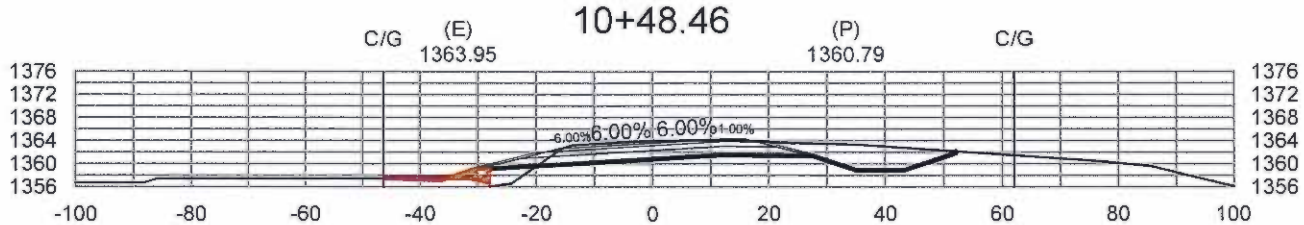

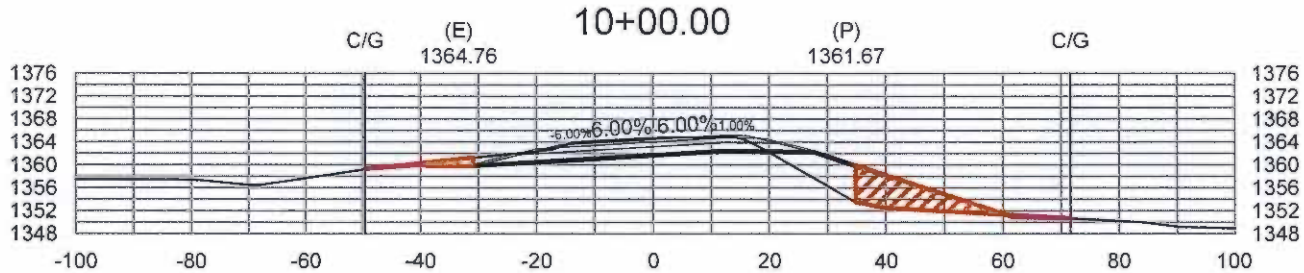

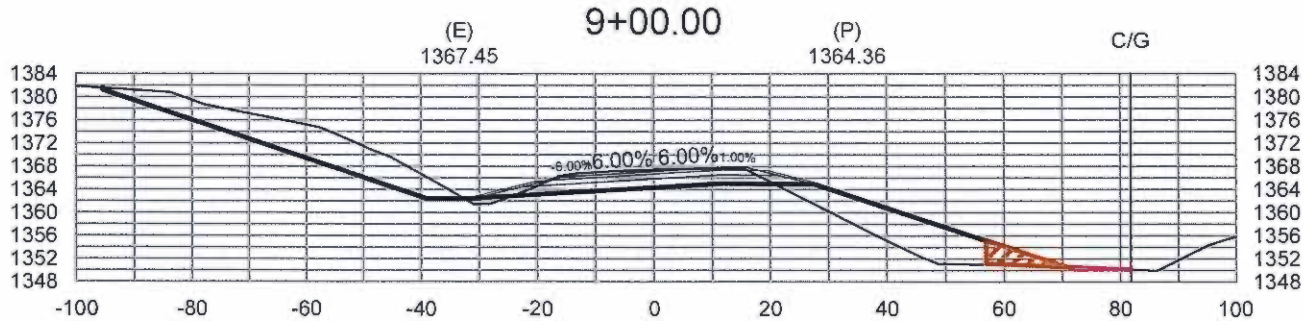

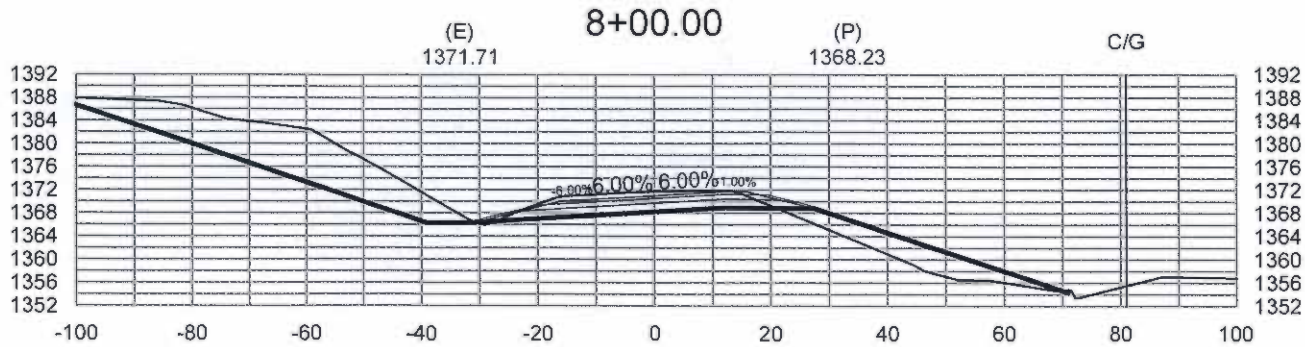

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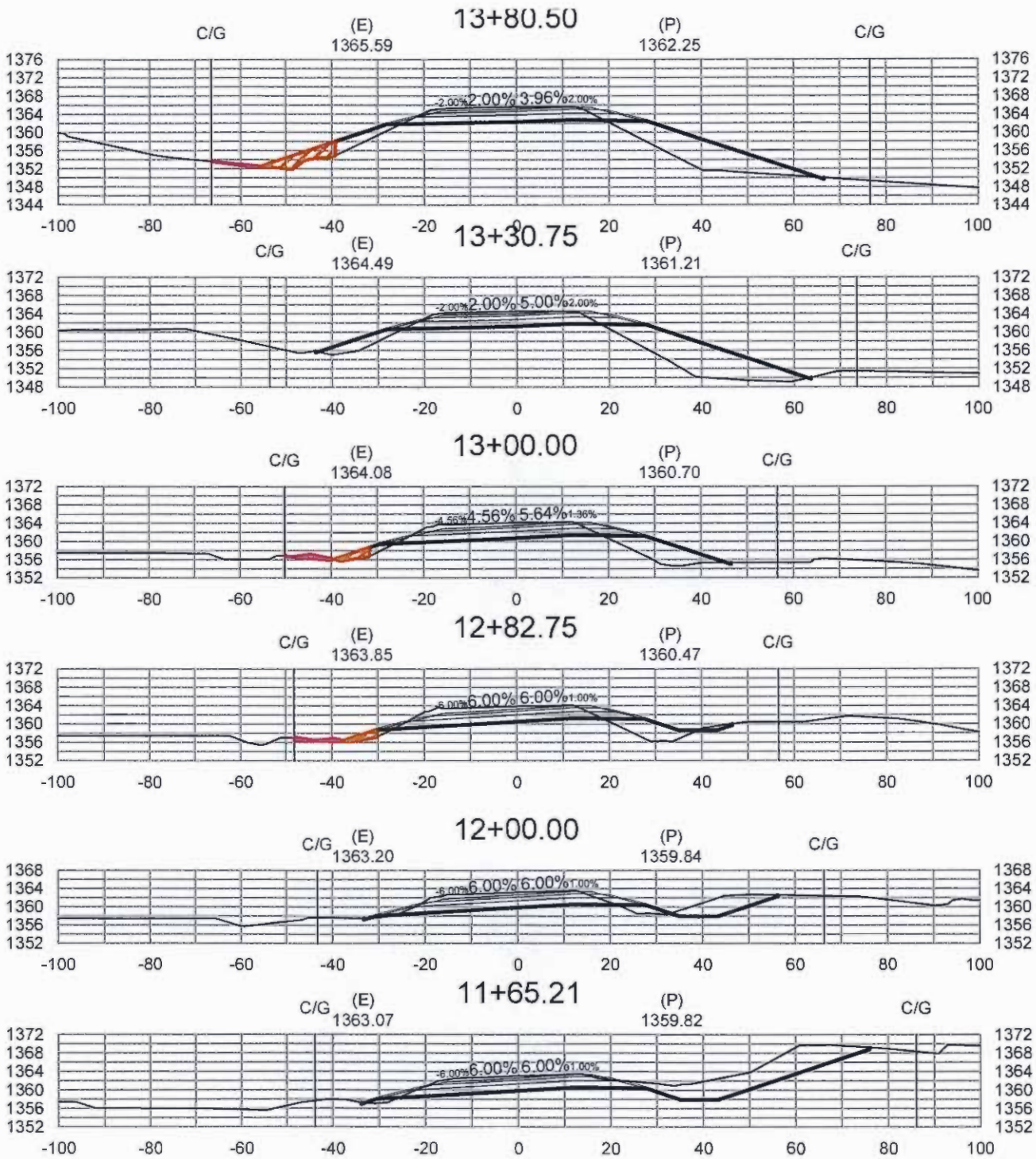

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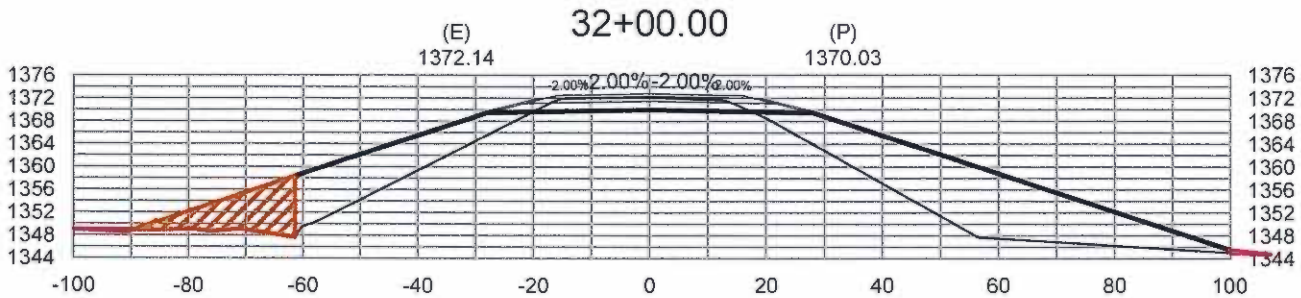

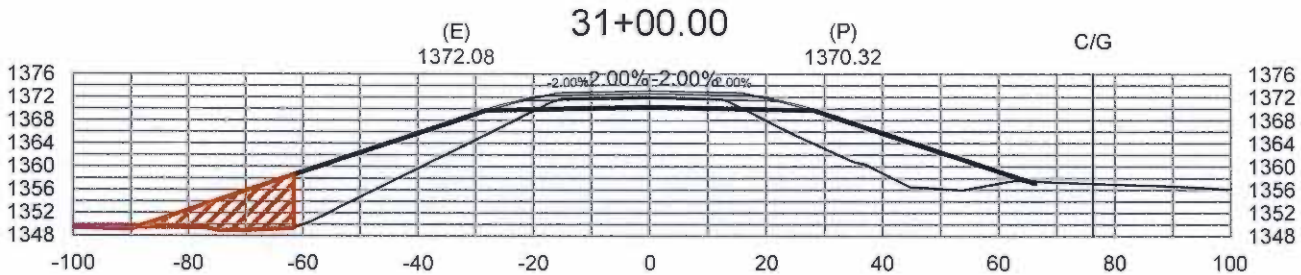

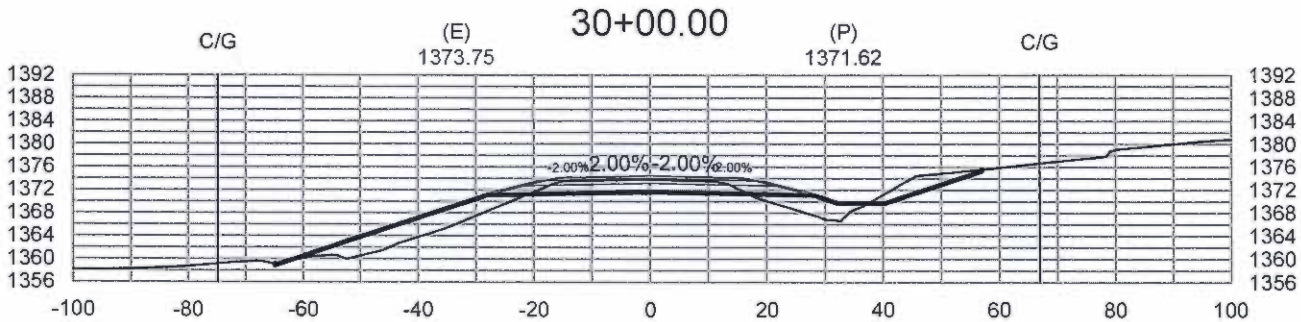

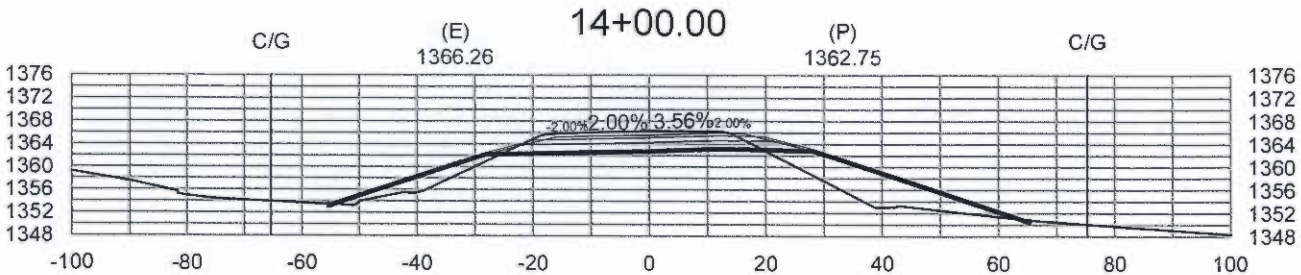

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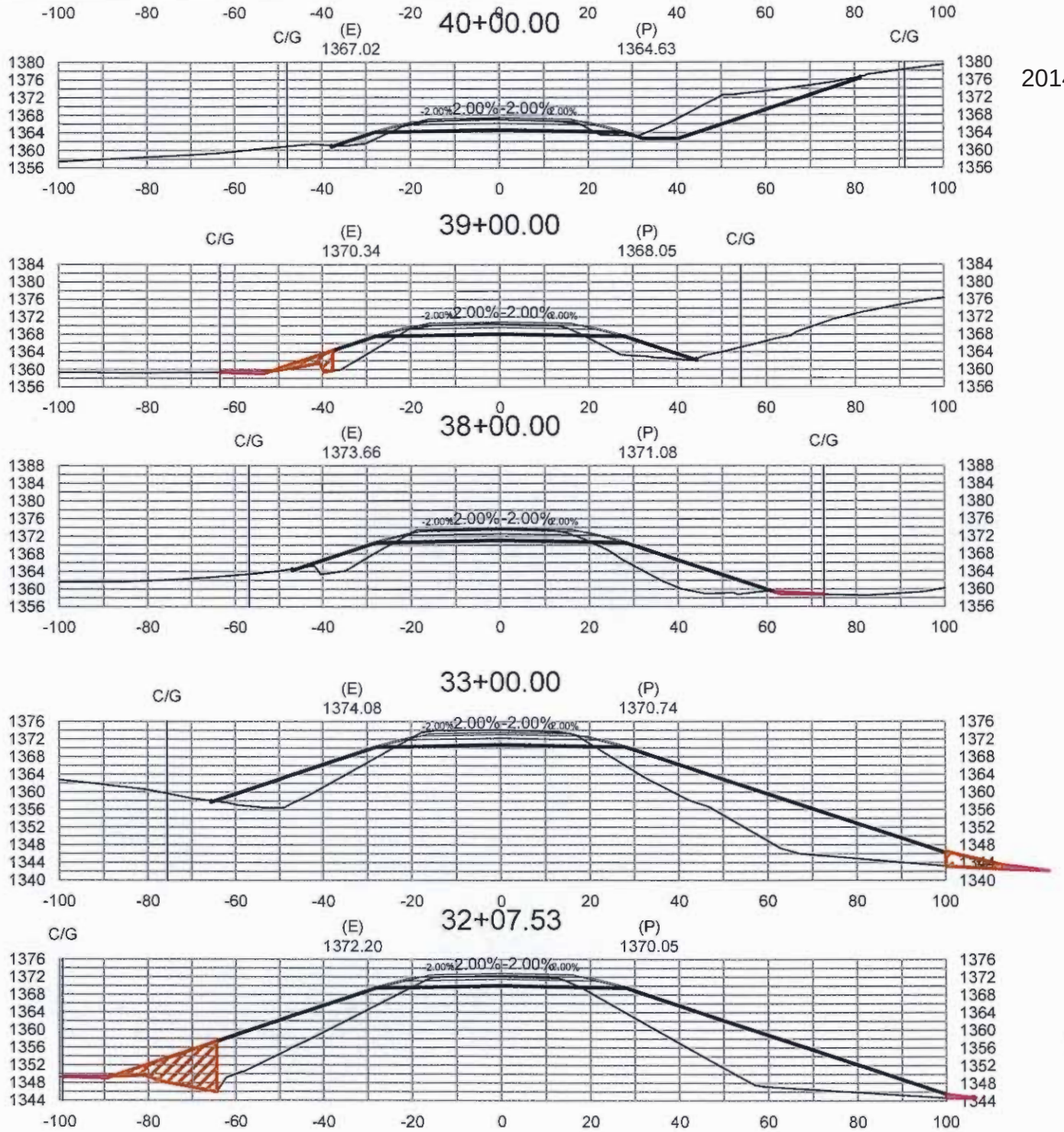

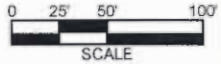

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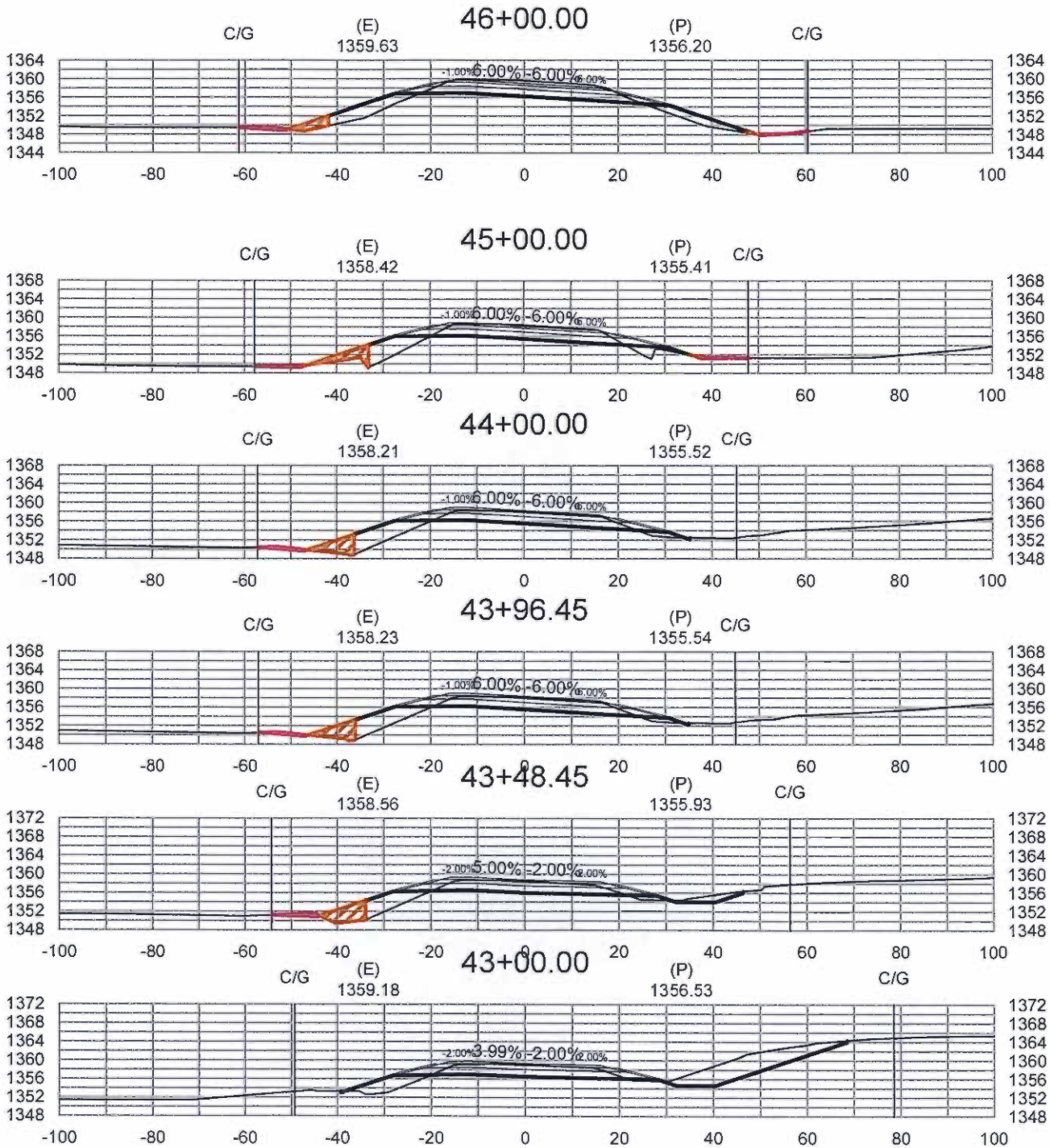

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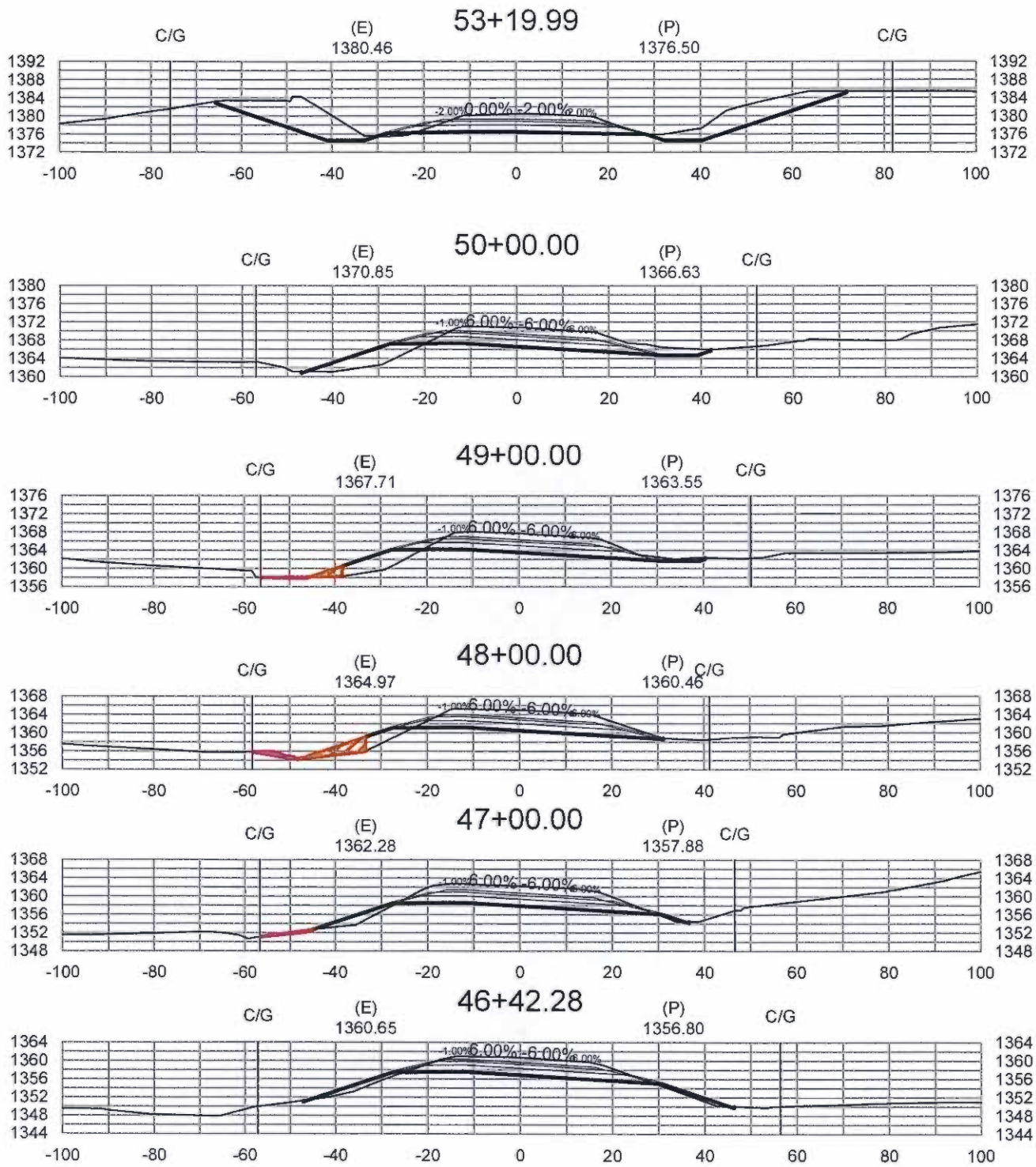

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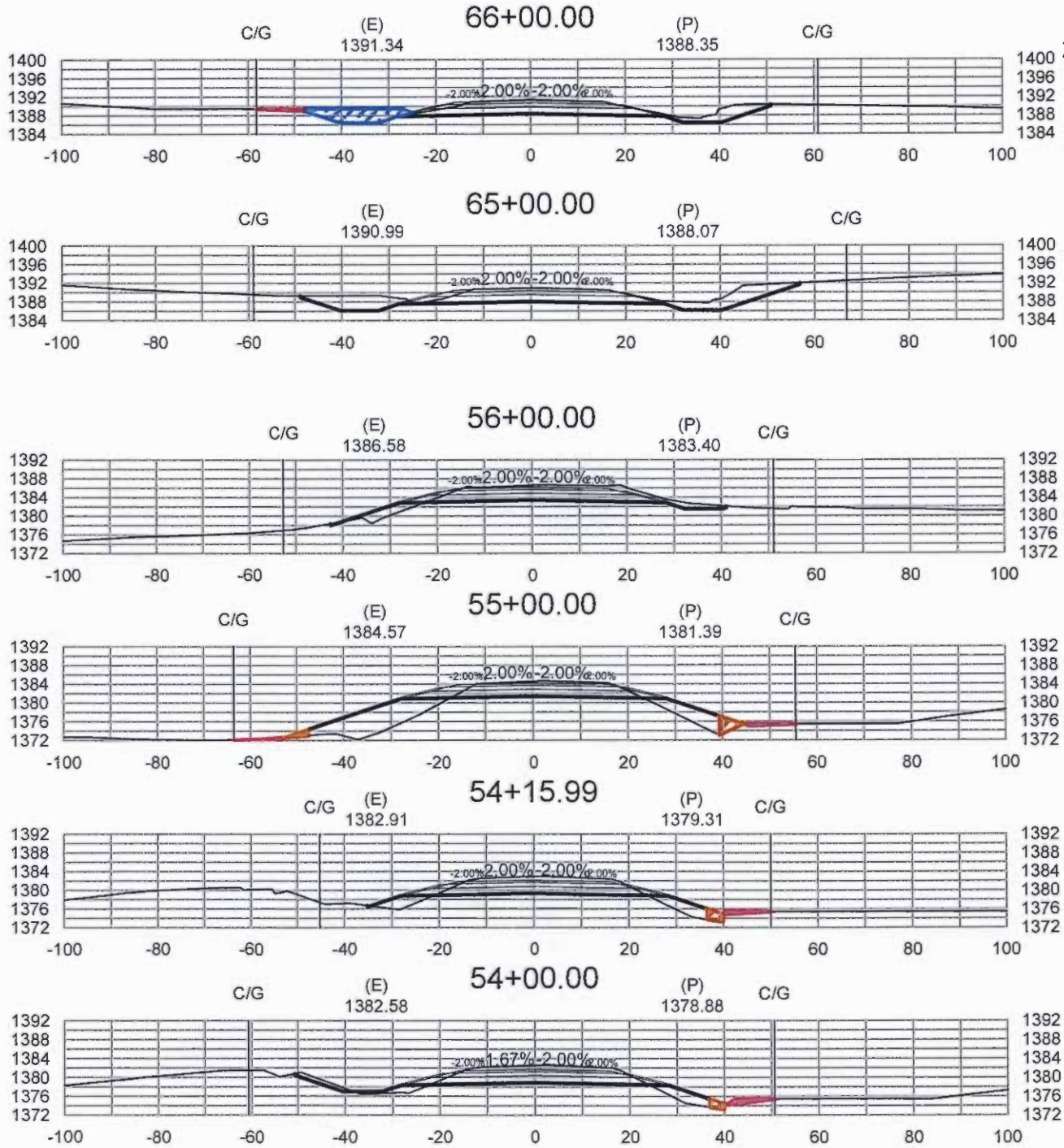

WETLAND IMPACT KEY
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- –CUT
- –TEMP

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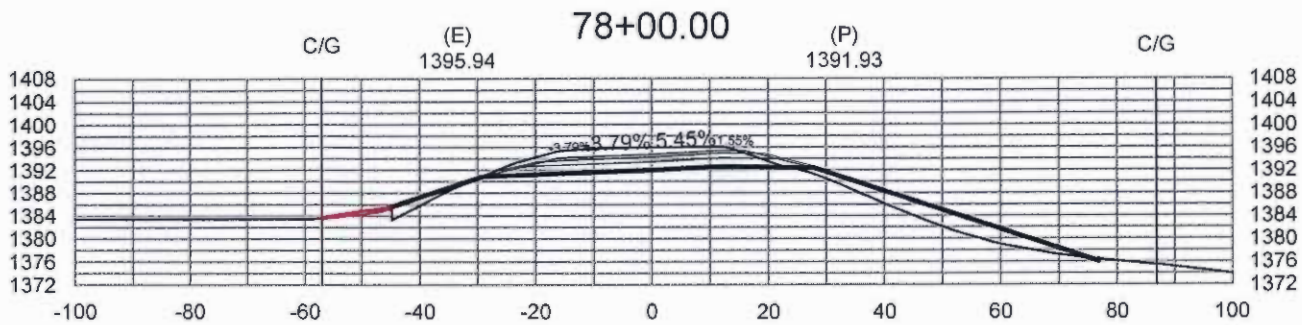

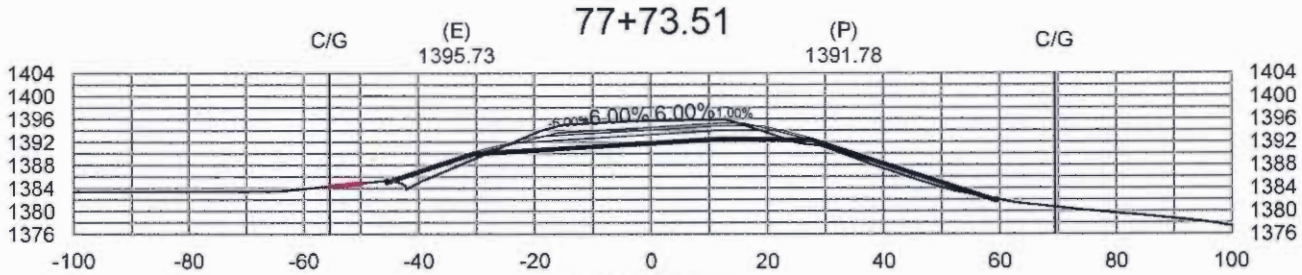

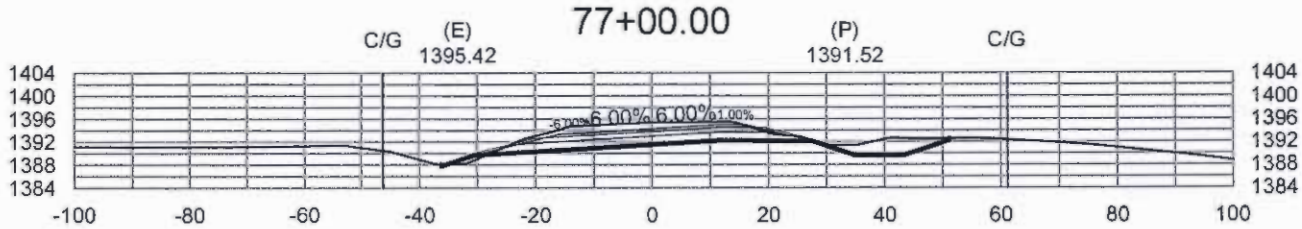

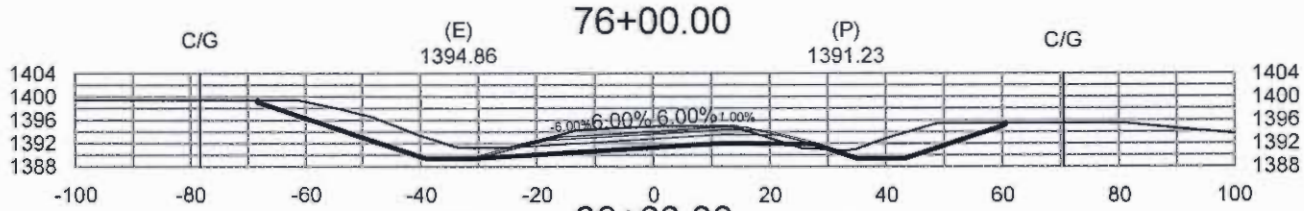

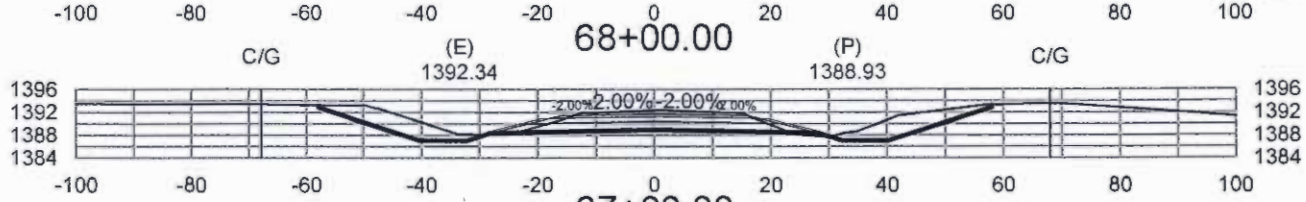

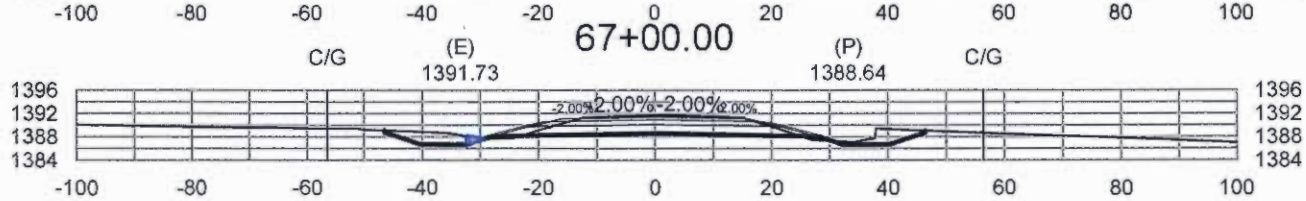

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FILE PATH (N:\CSAH 16\31-616-11\DWG PLAN SETS)

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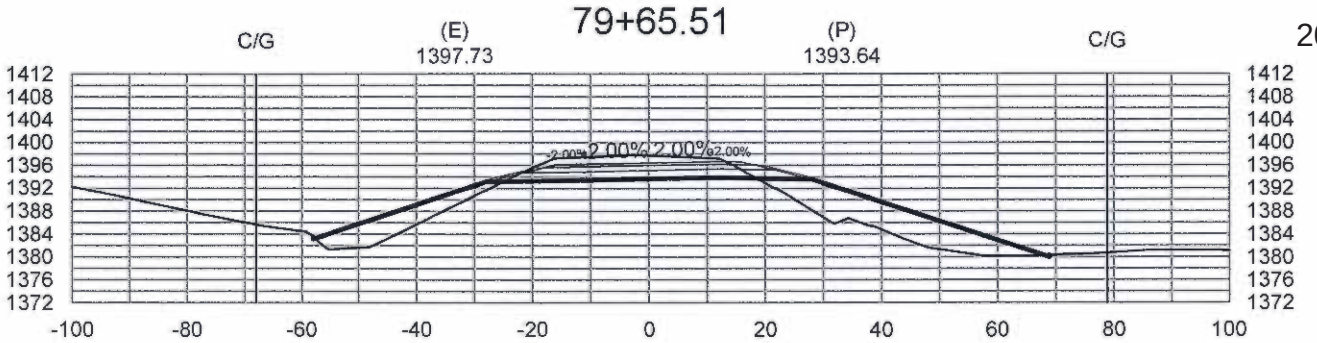

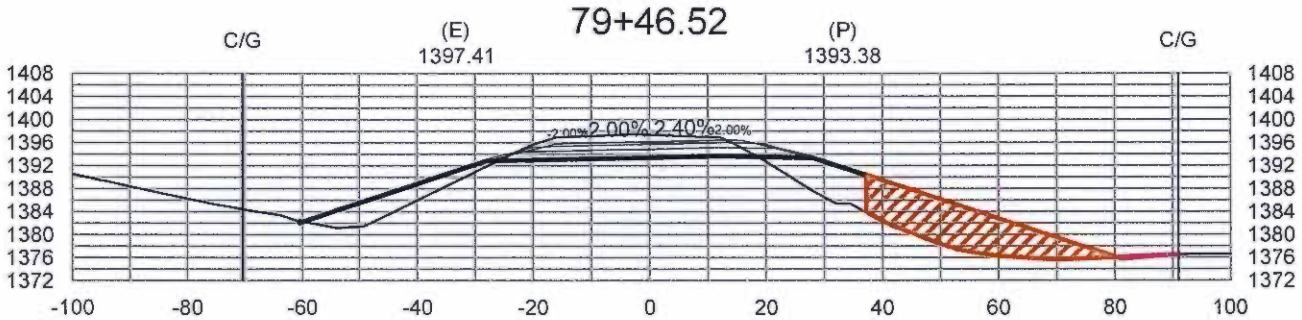

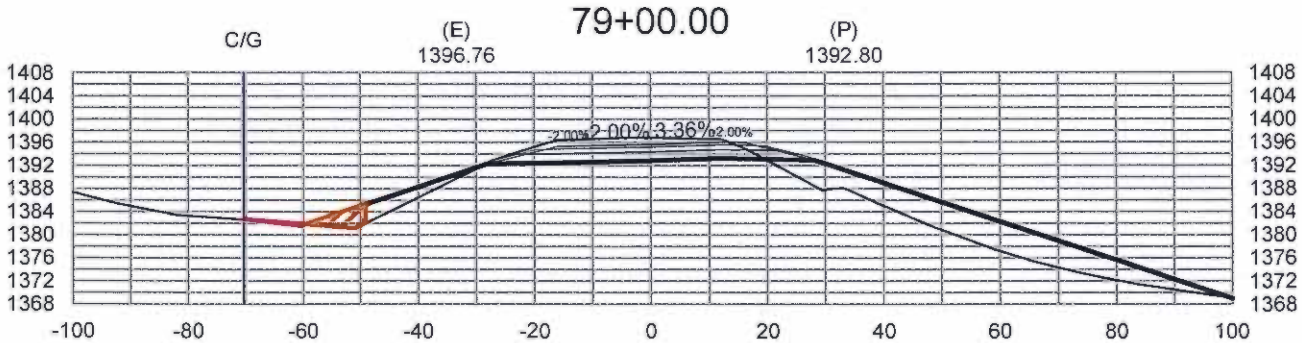

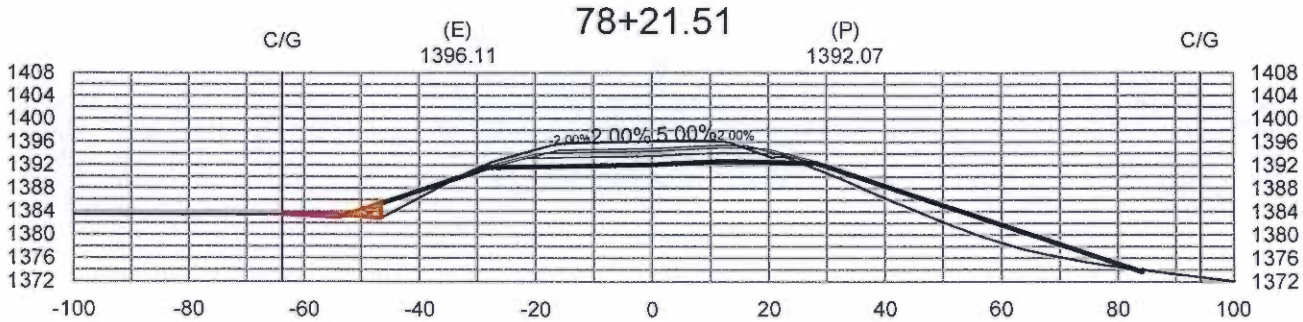

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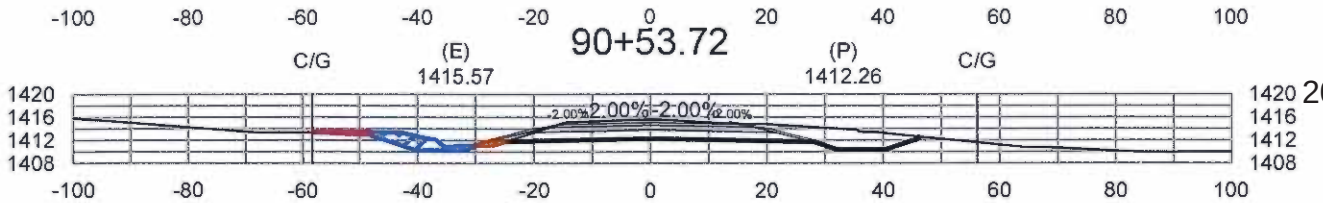

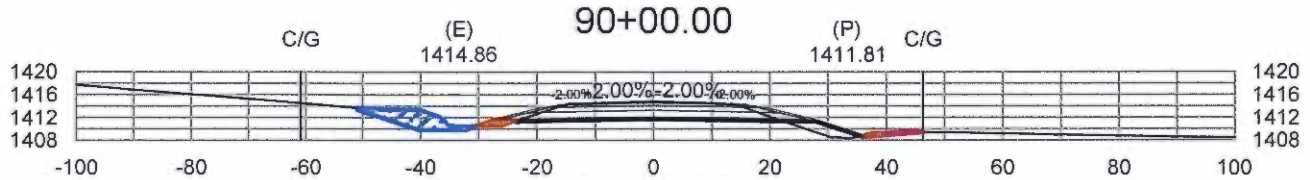

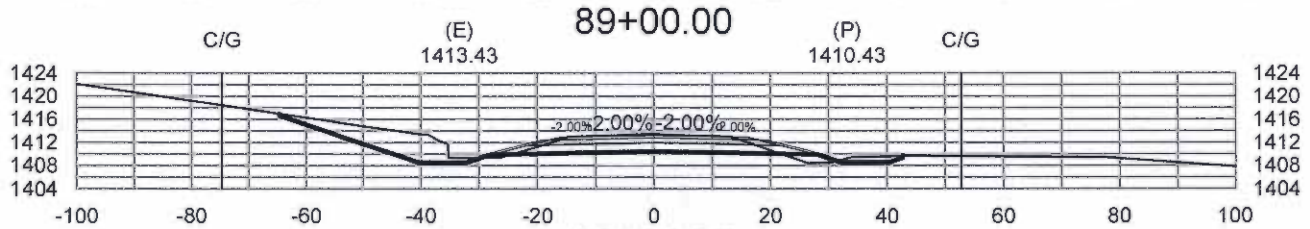

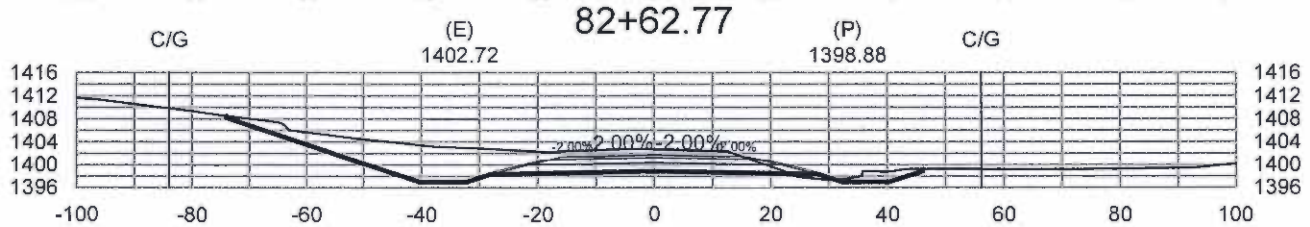

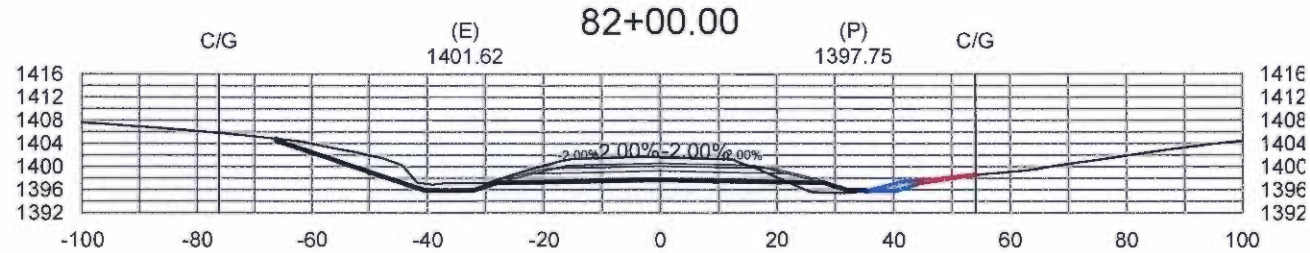

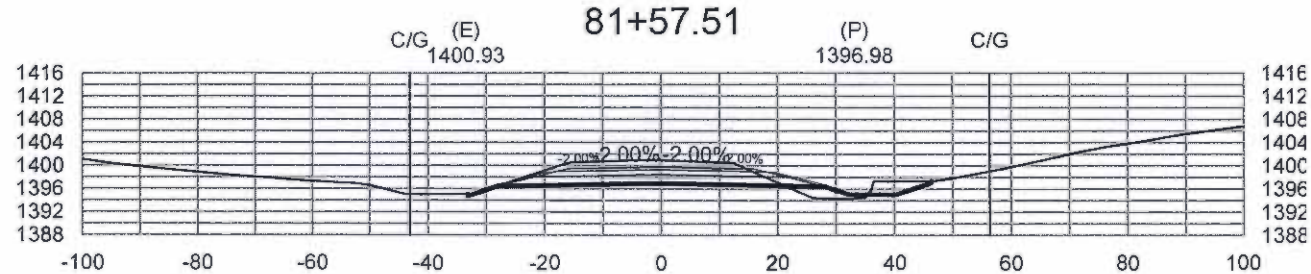

SCALE 0 25' 50' 100'

WETLAND IMPACT KEY
- FILL
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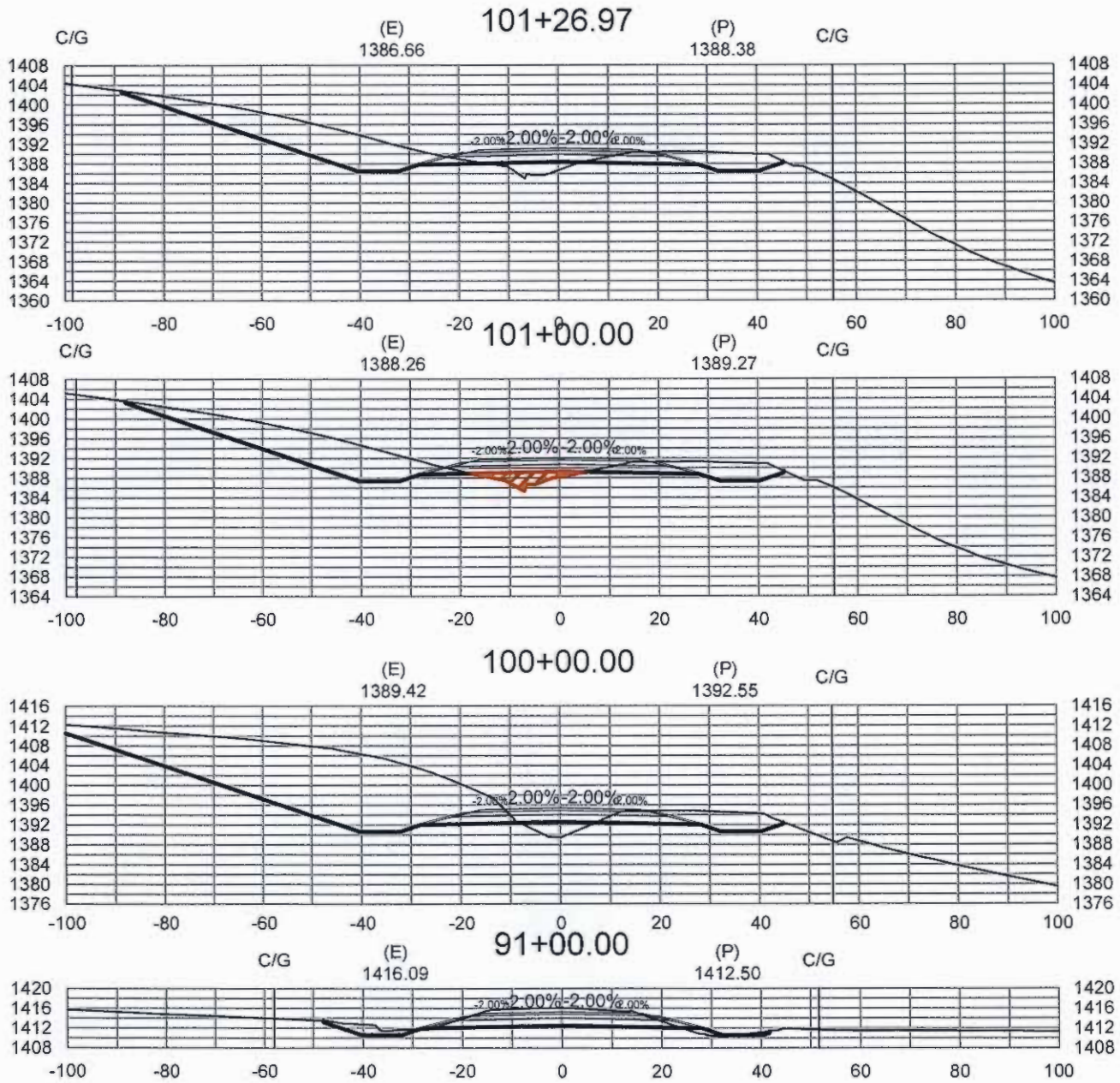

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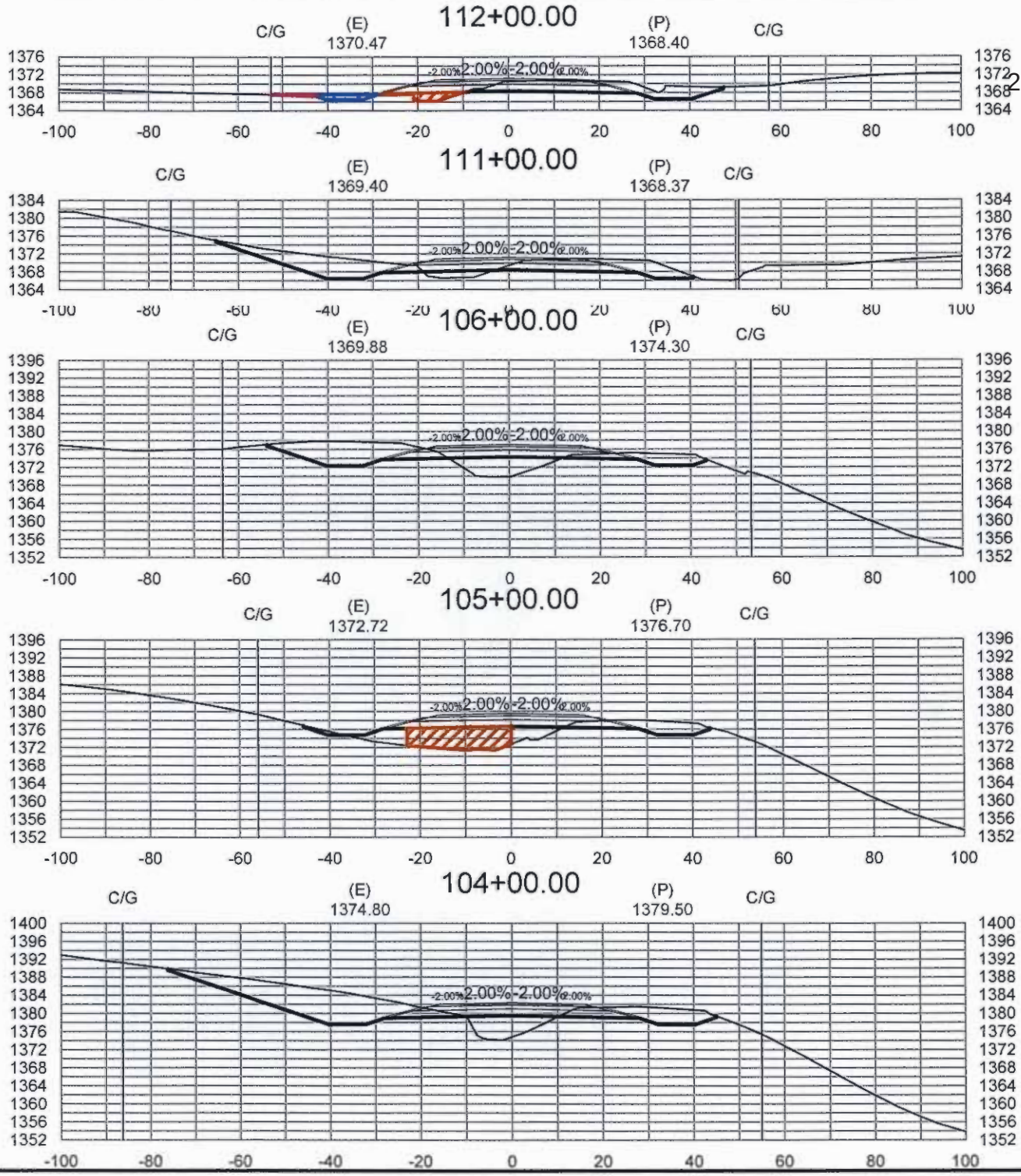

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SCALE

WETLAND IMPACT KEY
- FILL
- CUT
- TEMP

FILE PATH (N:\CSAH 16\31-616-11\DWG PLAN SETS)

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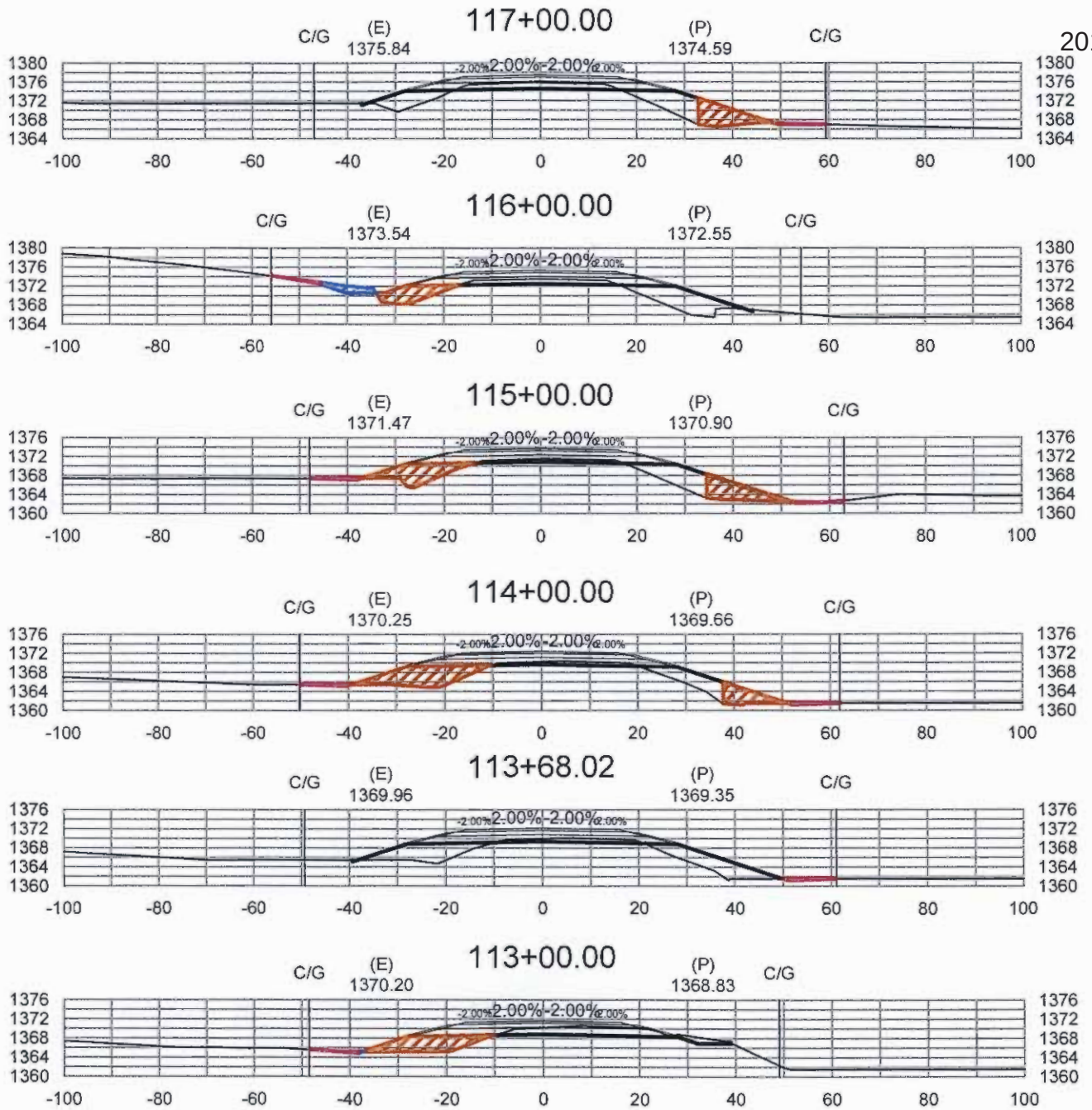

WETLAND IMPACT KEY
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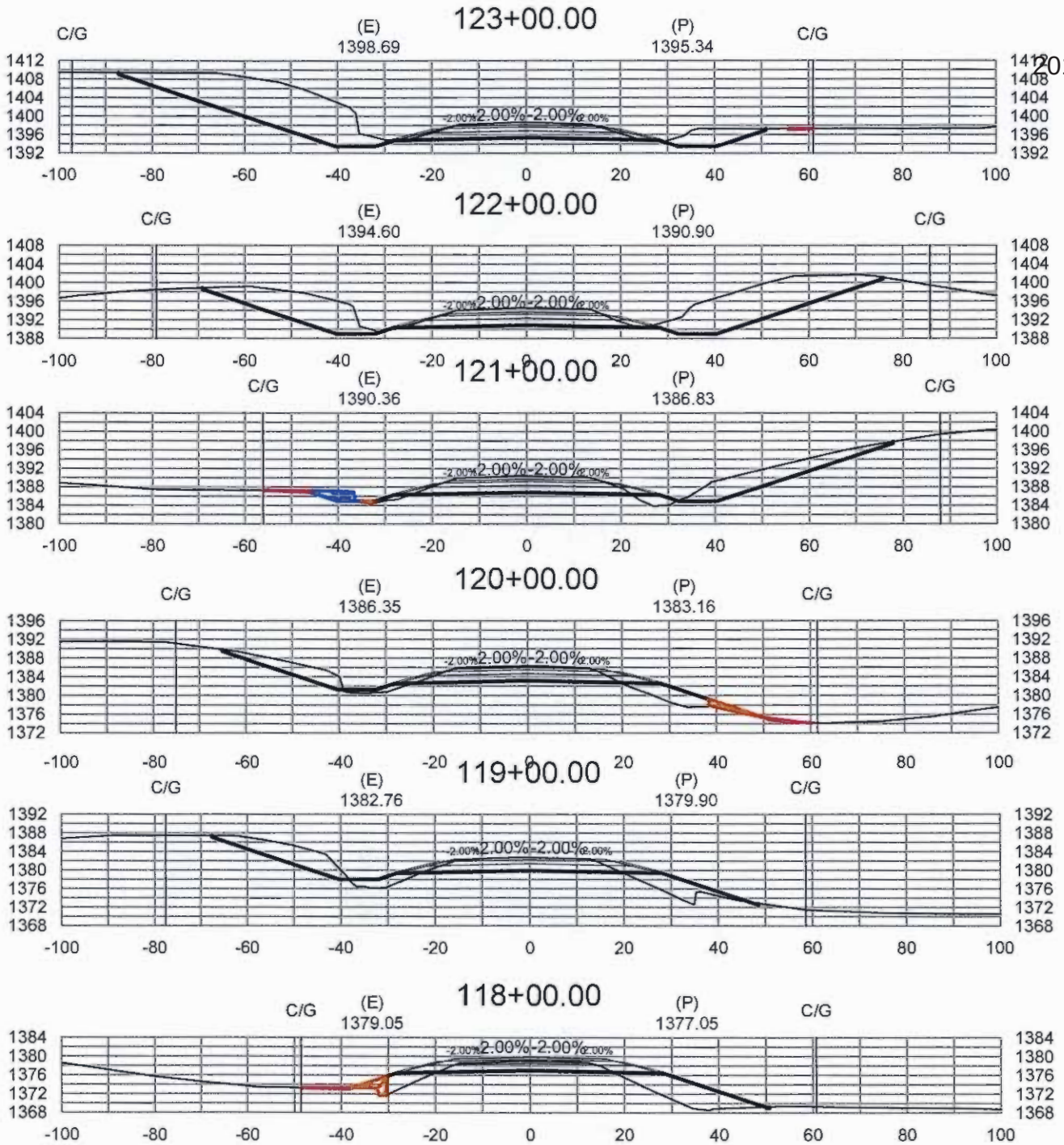

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CP 31-616-11 WETLAND IMPACTS

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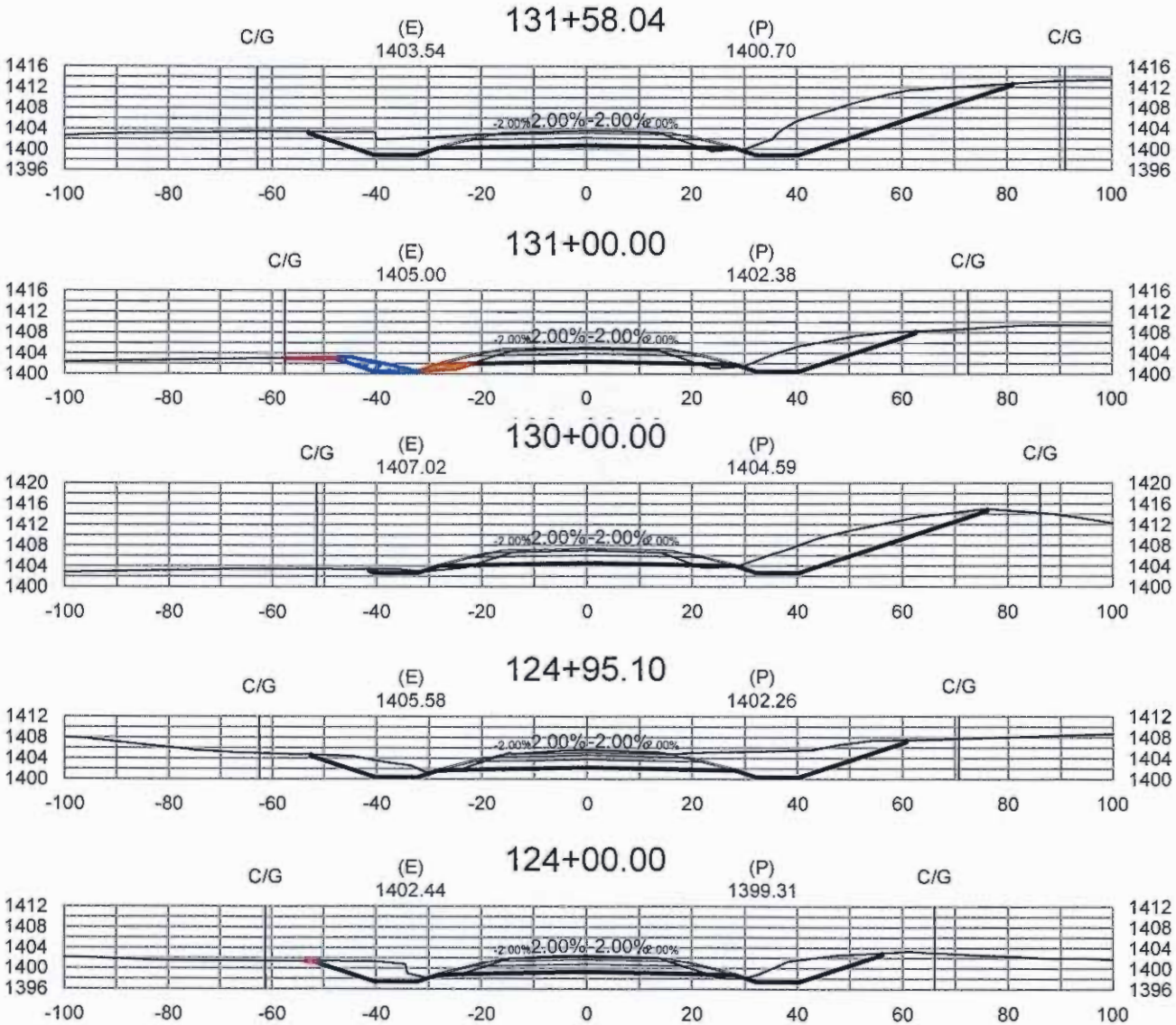

WETLAND IMPACT KEY
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FILE PATH (N:\CSAH 16\31-616-11\DWG PLAN SETS)

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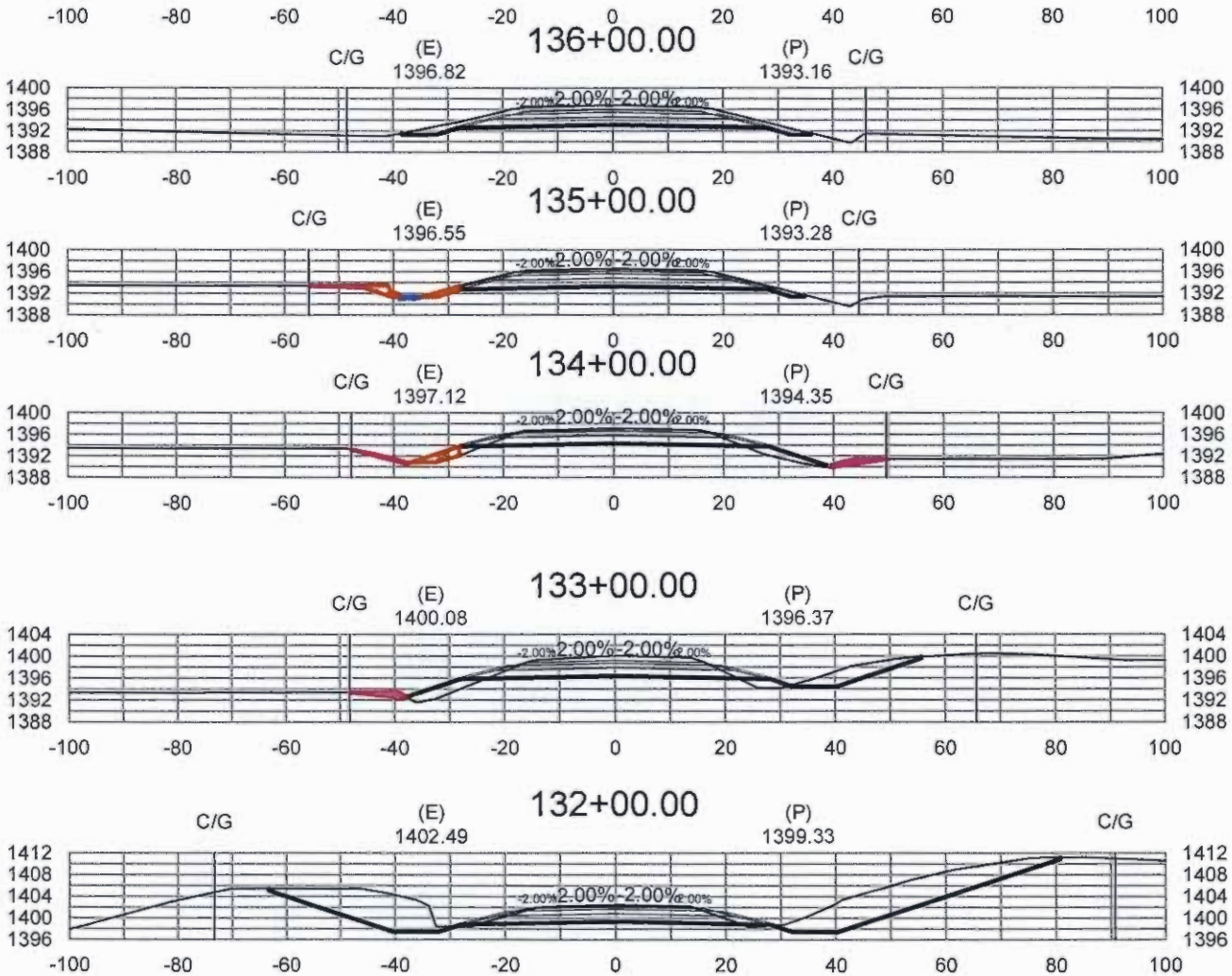

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