

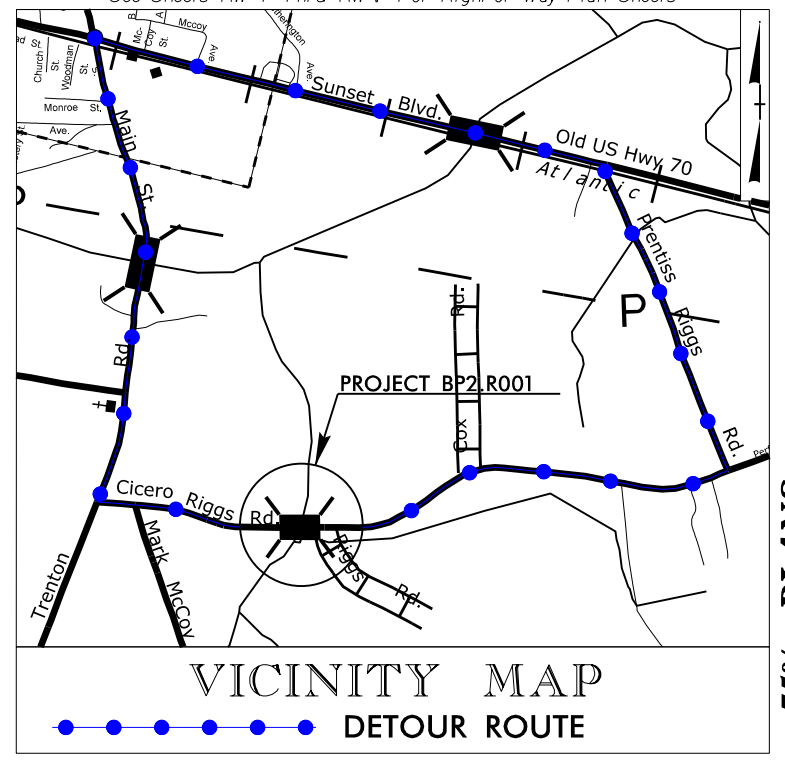
09/05/19

See Sheet 1A For Index of Sheets
 See Sheet 1B For Conventional Plan Sheet Symbols
 See Sheets RW-1 Thru RW-? For Right of Way Plan Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
CRAVEN COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP2.R001	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
BP2.R001.1	N/A	PE	
BP2.R001.2	N/A	RW & UTILITIES	
BP2.R001.3	N/A	CONST.	

PROJECT: BP2.R001



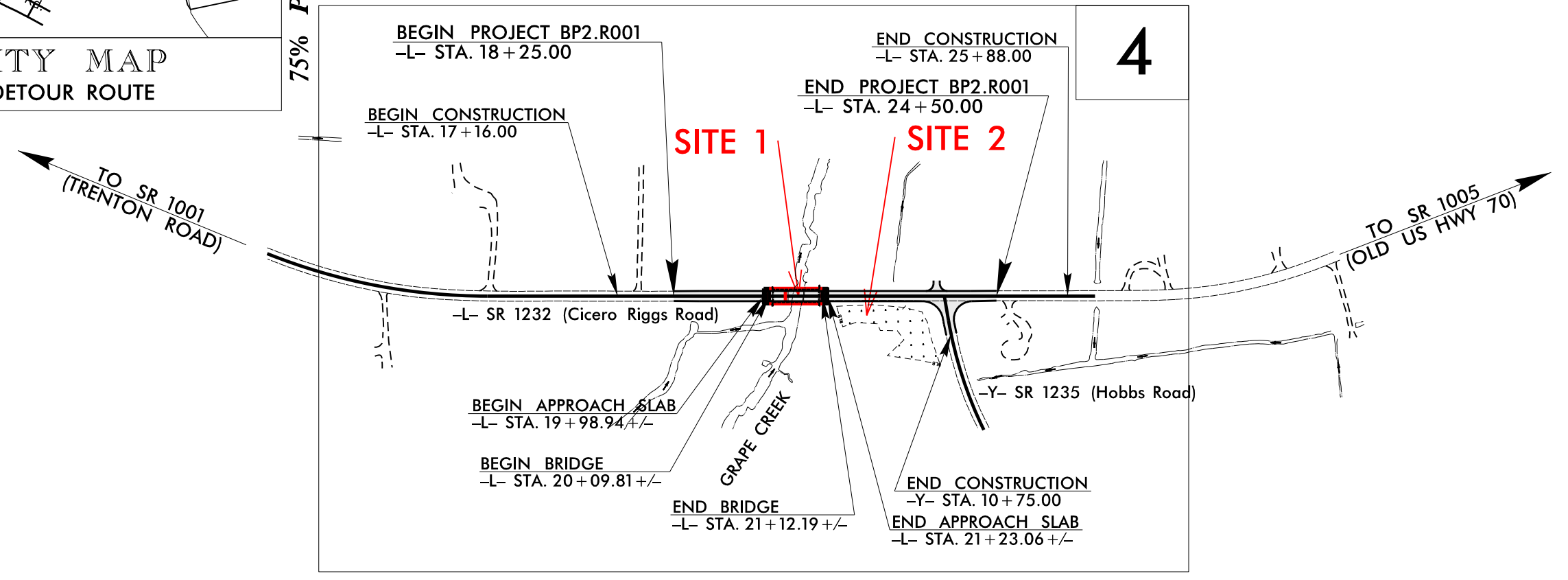
LOCATION: BRIDGE NO. 66 ON SR 1232 (CICERO RIGGS ROAD) OVER GRAPE CREEK
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT

**PERMIT DRAWING
 SHEET 1 OF 9**



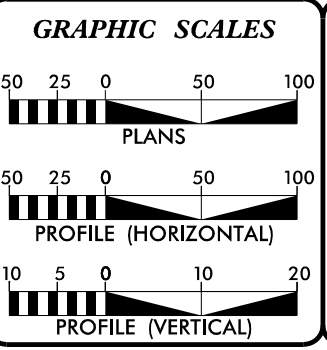
75% PLANS



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2023 =	304
ADT 2040 =	460
K =	%
D =	%
T =	% *
V =	60 MPH
* TTST =	DUAL =
FUNC CLASS =	RURAL LOCAL
"SUB-REGIONAL TIER"	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BP2.R001 =	0.099 MILES
LENGTH STRUCTURE TIP PROJECT BP2.R001 =	0.019 MILES
TOTAL LENGTH TIP PROJECT BP2.R001 =	0.118 MILES

Prepared In the Office of:

SEPI
 Engineering & Construction, Inc.

2018 STANDARD SPECIFICATIONS

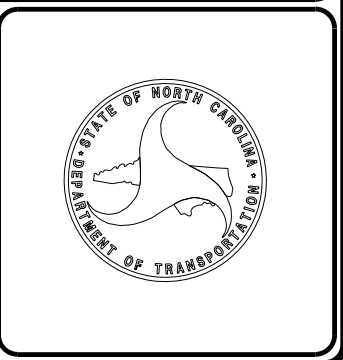
RIGHT OF WAY DATE: JULY 20, 2022	RAJIT RAMKUMAR, PE PROJECT ENGINEER
LETTING DATE: MARCH 22, 2023	DANIEL W. GARDNER, JR., PE PROJECT DESIGN ENGINEER
	MICHAEL AMAN, PE NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

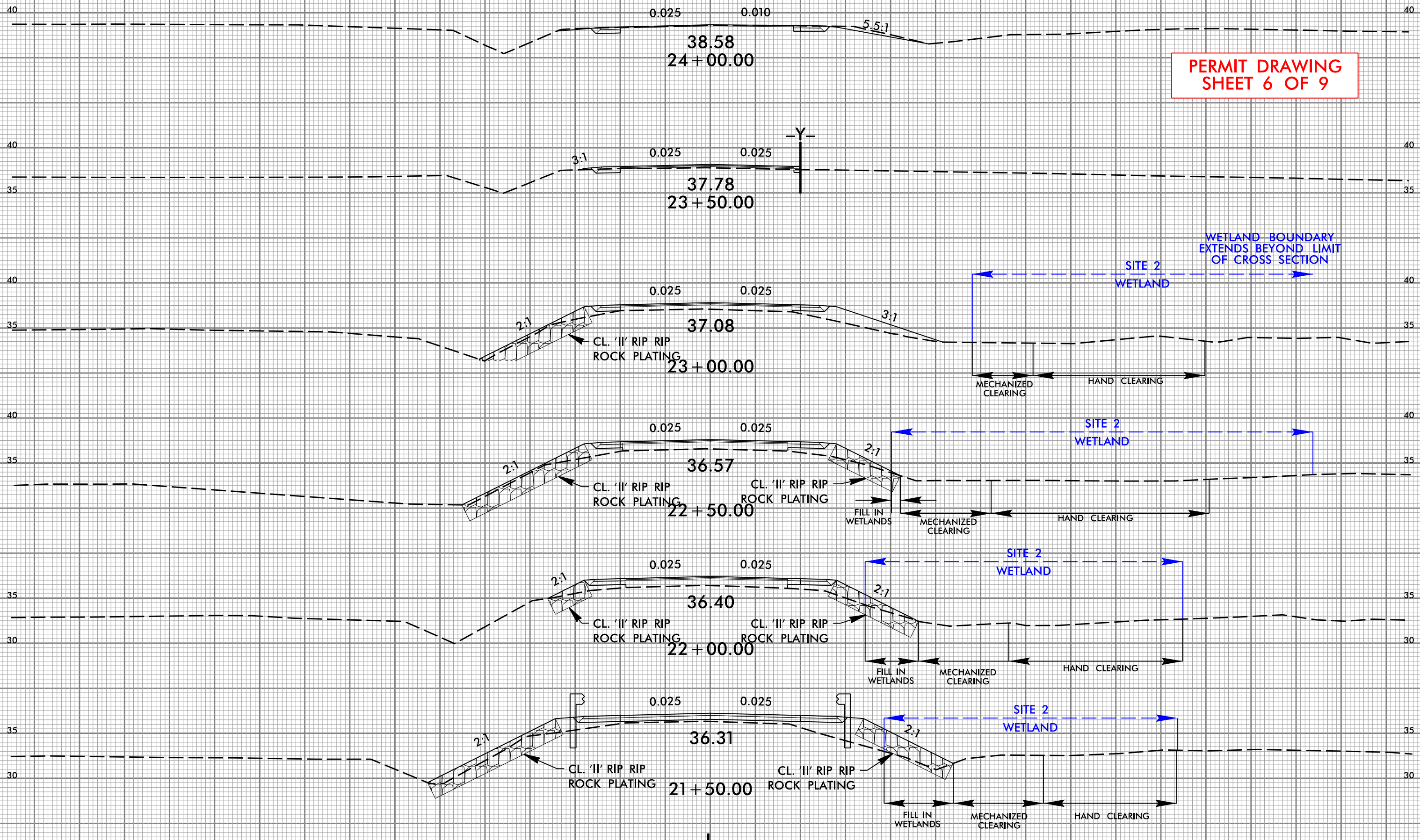
SIGNATURE: _____ P.E.



10/31/2022
 \\BP2.R001.hyd_tsh_wet.dgn
 USER:TOVERBY

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



PERMIT DRAWING
SHEET 6 OF 9

WETLAND BOUNDARY
EXTENDS BEYOND LIMIT
OF CROSS SECTION

SITE 2
WETLAND

SITE 2
WETLAND

SITE 2
WETLAND

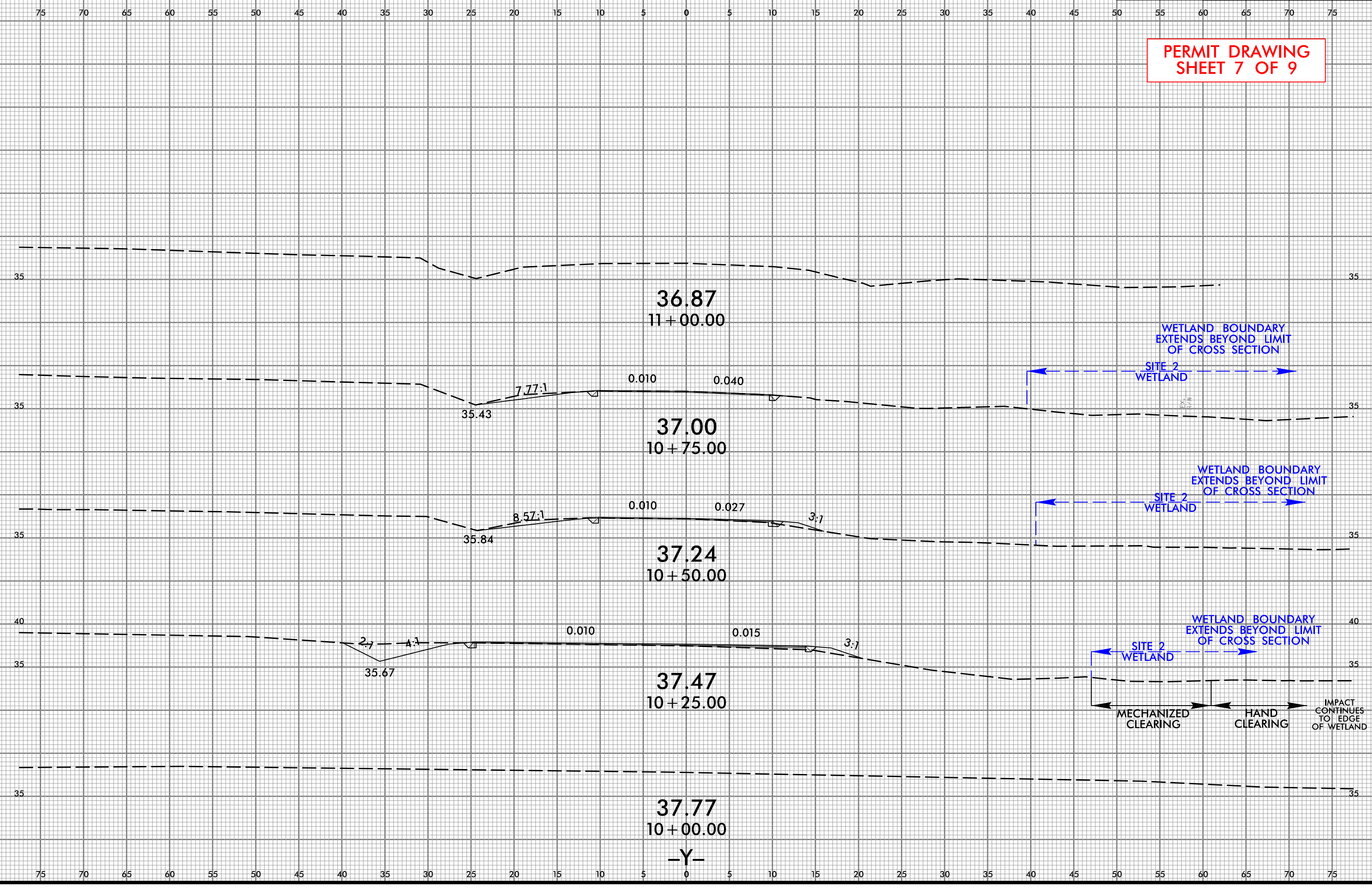
SITE 2
WETLAND

10/31/2022
D:\BP2\20011-hyd.wet.xpl.L.dgn
USER:tdoverbu

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

PERMIT DRAWING
SHEET 7 OF 9



7/30/2022
BP2.R001.11-hyd.wet.xpl.ydgn
USFRI:doverbu

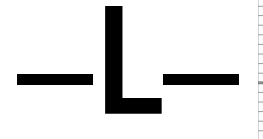
5/28/99

PROJECT REFERENCE NO. BP2.R001	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

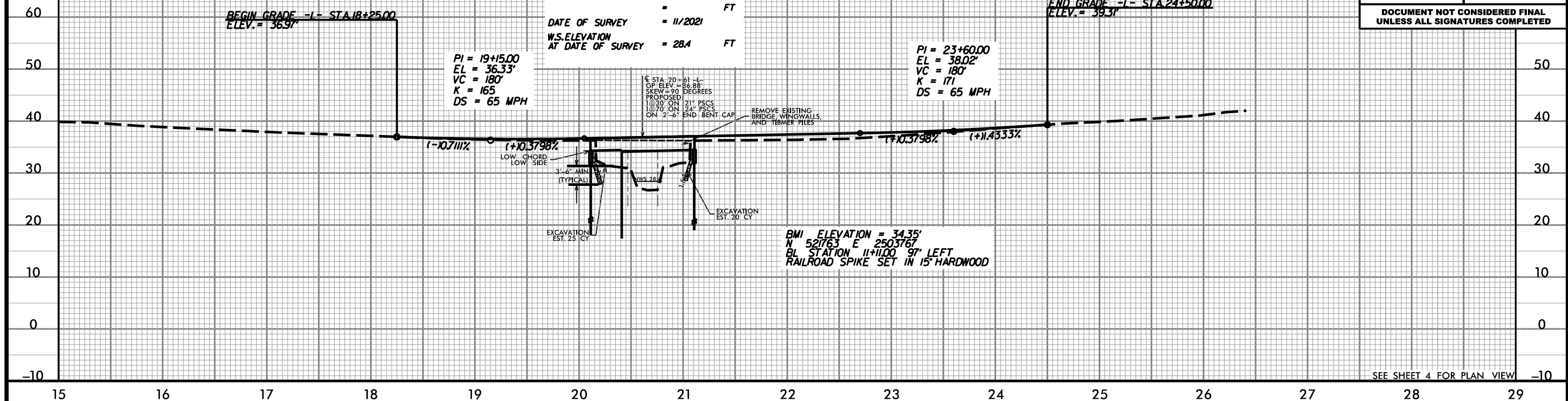
BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 660 CFS
 DESIGN FREQUENCY = 25 YRS
 DESIGN HW ELEVATION = 34.3 FT
 BASE DISCHARGE = 1000 CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 35J FT
 OVERTOPPING DISCHARGE = 2150 CFS
 OVERTOPPING FREQUENCY = >500 YRS
 OVERTOPPING ELEVATION = 37.8 FT

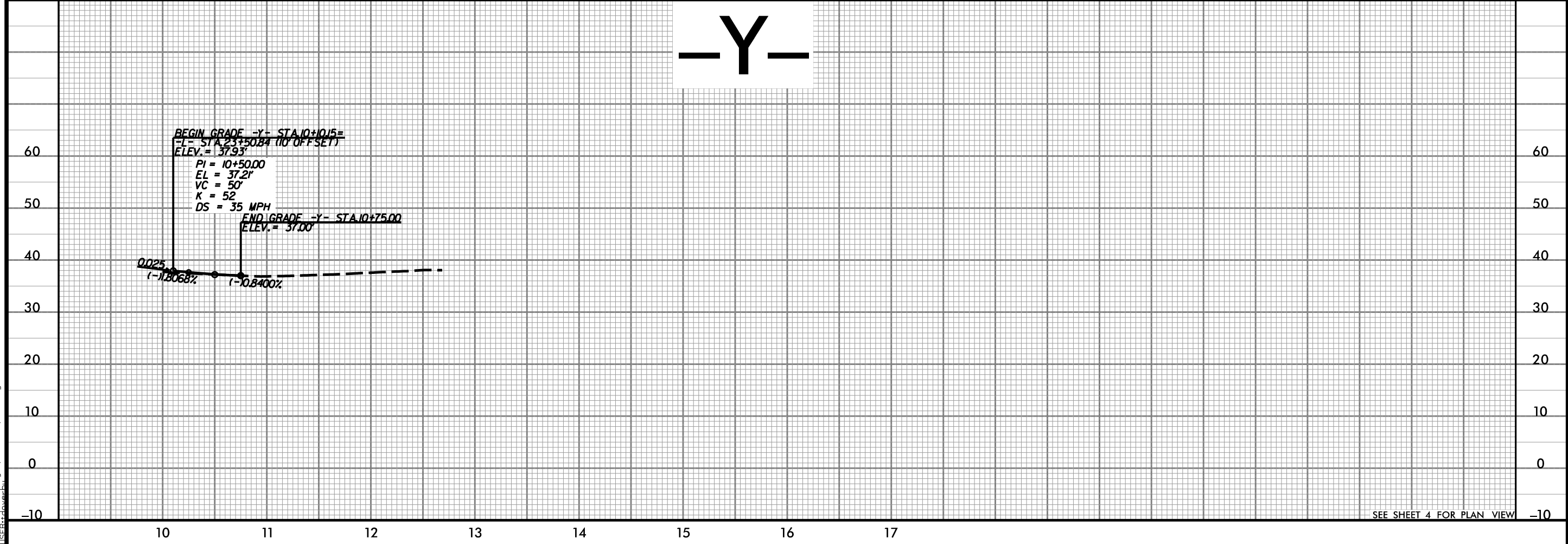
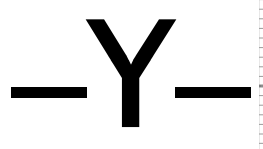
DATE OF SURVEY = 11/2021
 W.S.ELEVATION AT DATE OF SURVEY = 28.4 FT



**PERMIT DRAWING
SHEET 8 OF 9**



SEE SHEET 4 FOR PLAN VIEW



SEE SHEET 4 FOR PLAN VIEW

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WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	20+45 to 20+69 -L- LT/RT	Temporary Access for Erosion Control						0.013			89	
1	20+66 to 20+79 -L- LT/RT	Exist. Bent Removal + Temp. Access						0.008				
2	21+40 to 22+79 -L- RT	Roadway Fill	0.016									
2	21+42 to 23+09 -L- RT	Perimeter Erosion Control				0.036						
2	21+45 to 23+17 -L- RT	Clearing Inside Easement/RW					0.079					
TOTALS*:			0.02	0.00	0.00	0.04	0.08	0.00	0.02	0	89	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 7/20/22
 CRAVEN COUNTY
 Bridge 66
 BP2.R001.1
 SHEET 9 OF 9