



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 49067.1.2,49067.1.3 & 53079.2.1 TIP/Proj No: I-6064/I-5879 County(ies): Robeson Page 1 of 3

General Project Information

WBS Element:	49067.1.2,49067.1.3 & 53079.2.1	TIP Number:	I-6064/I-5879	Project Type:	Roadway Widening	Date:	8/2/2022
NCDOT Contact:	James J. Rerko		Contractor / Designer:		ICE of Carolinas, PLLC / William Stephens, PE		
	Address: NCDOT Highway Division 6 P.O. Box 1150 Fayetteville, NC 28302				Address: 4905 Falls of Neuse Road Suite 125 Raleigh, NC 27609		
	Phone: 910-364-0693				Phone: 984-255-0410		
	Email: jrerko@ncdot.gov				Email: william.stephens@ice-eng.com		
City/Town:	Lumberton		County(ies):		Robeson		
River Basin(s):	Lumber		CAMA County?		No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	7.945 Miles	Surrounding Land Use:	Urban character along project corridor and a rural/residential character for areas outside of corridor					
	Proposed Project		Existing Site					
Project Built-Upon Area (ac.)	230.0	ac.	170.3	ac.				
Typical Cross Section Description:	Northbound Lanes - 4 @ 12' Lanes w/ Paved Shoulders & Median Barrier Wall Southbound Lanes - 4 @ 12' Lanes w/ Paved Shoulders & Median Barrier Wall			Northbound Lanes - 2 @ 12' Lanes w/ Paved Shoulders Southbound Lanes - 2 @ 12' Lanes w/ Paved Shoulders				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	107800	Year:	2041	Existing:	71800	Year:	2021

General Project Narrative:
(Description of Minimization of Water Quality Impacts)

The project consists of the widening of I-95 from I-74 (Exit 13) To South of US 301 (Exit 22) from 2 lanes in each direction to 4 lanes in each direction. Several grade separated bridges will be replaced along the project corridor. The proposed stormwater runoff from the roadway widening has been conveyed to roadside ditches and storm drainage systems that drain to existing outfalls. Stormwater management is accomplished with proposed grassed lined ditches where possible. Many of the proposed grassed lined ditches along the project would meet grass swale criteria, even though it is not required for this project.



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General Project Information

Waterbody Information

Surface Water Body (1):	Back Swamp		NCDWR Stream Index No.:	14-8-(2.5)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Water Supply IV (WS-IV)		
	Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	Back Swamp		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (2):	Fivemile Branch		NCDWR Stream Index No.:	14-12-6	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	Fivemile Branch		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (3):	Jacob Branch		NCDWR Stream Index No.:	14-17	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	Jacob Branch		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					



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Additional Waterbody Information

Surface Water Body (4):		Lumber River		NCDWR Stream Index No.:		14-(7)	
NCDWR Surface Water Classification for Water Body			Primary Classification:		Class C		
			Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:		Federal Wild and Scenic Rivers					
Impairments:		None					
Aquatic T&E Species?		No		Comments:			
NRTR Stream ID:		Lumber River		Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		N/A	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
		(If yes, provide justification in the General Project Narrative)					
Surface Water Body (5):		Meadow Branch		NCDWR Stream Index No.:		14-12-6-2	
NCDWR Surface Water Classification for Water Body			Primary Classification:		Class C		
			Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species?		No		Comments:			
NRTR Stream ID:		Meadow Branch		Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		No		Deck Drains Discharge Over Buffer?		N/A	
Deck Drains Discharge Over Water Body?		N/A		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
		(If yes, provide justification in the General Project Narrative)					
Surface Water Body (6):		Saddletree Swamp		NCDWR Stream Index No.:		14-12	
NCDWR Surface Water Classification for Water Body			Primary Classification:		Class C		
			Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species?		No		Comments:			
NRTR Stream ID:		Saddletree Swamp		Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		No		Deck Drains Discharge Over Buffer?		N/A	
Deck Drains Discharge Over Water Body?		N/A		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
		(If yes, provide justification in the General Project Narrative)					

09/08/99

TIP PROJECT: I-6064/I-5879

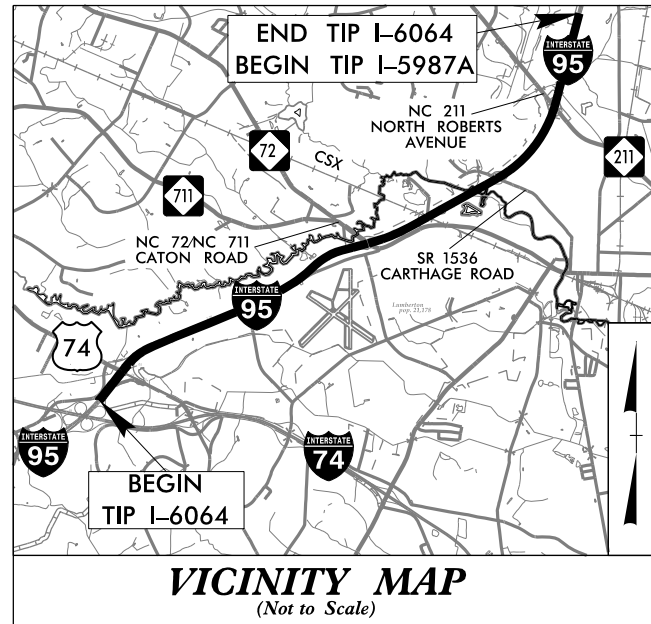
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PERMIT DRAWING
SHEET 1 OF 79

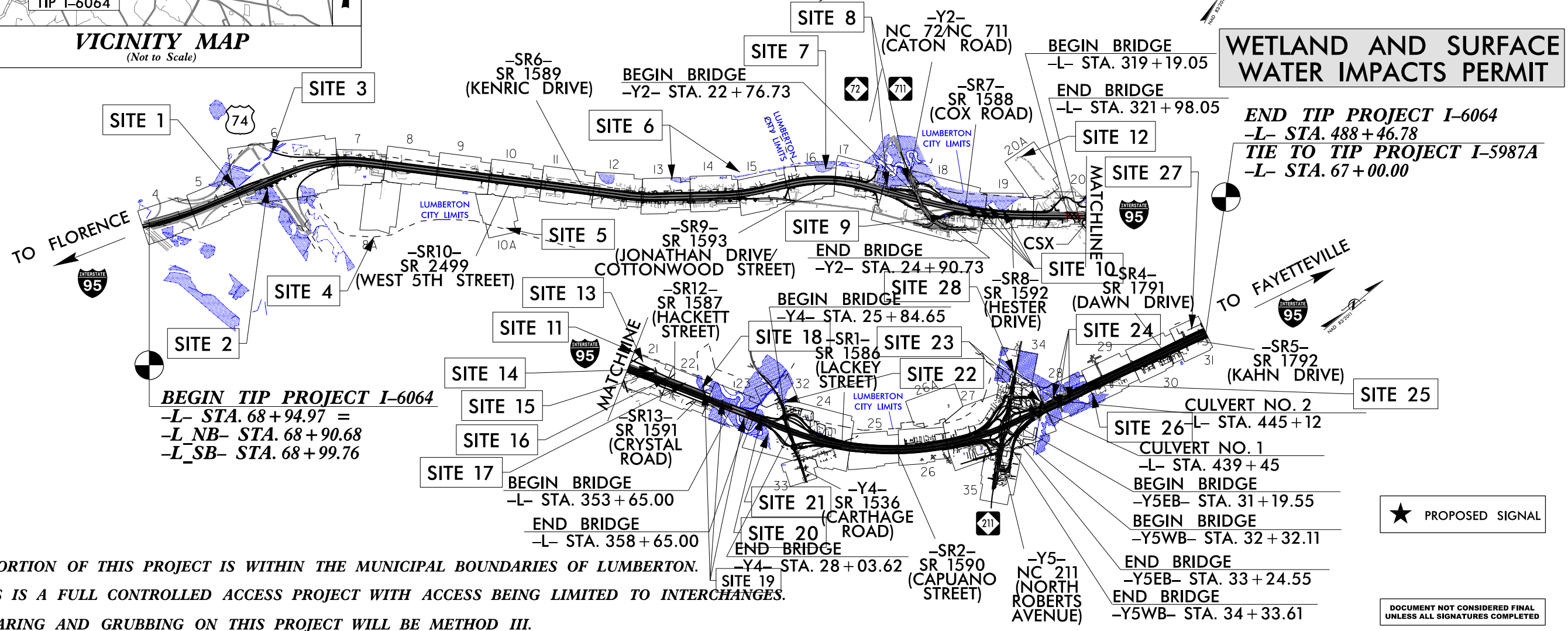
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N.C.	I-6064I-5879	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49067.1.2, 49067.1.3, & 53079.2.1		PE	
49067.2.5, 49067.2.6, & 53079.2.1		ROW	
49067.2.5, & 49067.2.6		UTIL.	
49067.3.1, 49067.3.2, & 49067.3.3		CONST.	



ROBESON COUNTY

LOCATION: I-95 WIDENING AND PAVEMENT REHABILITATION FROM I-74 (EXIT 13) TO SOUTH OF US 301 (EXIT 22) AND I-95/SR 1536 INTERCHANGE IMPROVEMENTS

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CULVERTS, STRUCTURES PAVEMENT MARKINGS, SIGNING, SIGNALS, ITS, NOISE WALLS, AND RETAINING WALLS

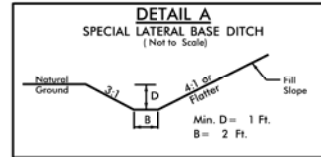


A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF LUMBERTON.
THIS IS A FULL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
CLEARING AND GRUBBING ON THIS PROJECT WILL BE METHOD III.

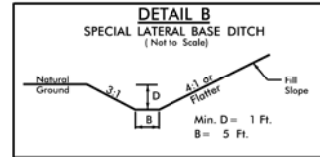
<p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>20 10 0 10 20 PROFILE (VERTICAL)</p>	<p>DESIGN DATA</p> <p>ADT 2021 = 71,800 ADT 2041 = 107,800 K = 6.5% D = 60 % T = 14 % * V = 75 MPH * TTST = 11% DUAL = 3% FUNC CLASS = INTERSTATE STATEWIDE TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH ROADWAY TIP PROJECT I-6064 = 7.783 MILES LENGTH STRUCTURE TIP PROJECT I-6064 = 0.162 MILES TOTAL LENGTH TIP PROJECT I-6064 = 7.945 MILES</p>	<p>Prepared In the Office of:</p> <p>ICE of CAROLINAS, PLLC ICE of Carolinas, PLLC 4505 Falls of Neuse Road, Suite 110 Raleigh, North Carolina 27609 Phone: 919-822-2333 License # 54029</p>	<p>Prepared for:</p> <p>NC DOT DIVISION OF HIGHWAYS 1800 Birch Ridge Dr., Raleigh NC 27619</p>	<p>HYDRAULICS ENGINEER</p> <p>SIGNATURE: _____ P.E.</p> <p>ROADWAY DESIGN ENGINEER</p> <p>SIGNATURE: _____ P.E.</p>	
			<p>2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: 9/2/2021</p> <p>LETTING DATE: 9/2/2021</p>	<p>BRIAN LUSK, PE PROJECT ENGINEER</p> <p>DAN DUFFIELD, PE NCDOT CONTACT</p>		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

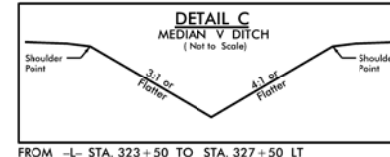
PERMIT DRAWING SHEET 2 OF 79



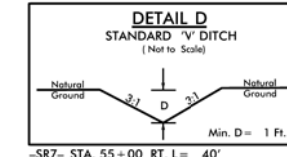
- FROM -L- STA. 128+16 TO STA. 130+37 LT
- FROM -L- STA. 234+00 TO STA. 235+89 LT
- FROM -L- STA. 236+14 TO STA. 242+88 RT
- FROM -L- STA. 274+00 TO STA. 276+00 RT
- FROM -L- STA. 282+00 TO STA. 285+00 RT
- FROM -SR6- STA. 24+88 TO STA. 26+85 LT
- FROM -SR6- STA. 32+66 TO STA. 34+37 LT
- FROM -SR6- STA. 34+37 TO STA. 34+97 LT
- FROM -SR6- STA. 35+36 TO STA. 41+34 LT
- FROM -SR6- STA. 41+34 TO STA. 47+15 LT
- FROM -SR6- STA. 47+15 TO STA. 60+72 LT
- FROM -SR6- STA. 80+06 TO STA. 84+66 LT
- FROM -SR6- STA. 86+87 TO STA. 88+74 LT
- FROM -SR6- STA. 106+88 TO STA. 109+14 LT
- FROM -SR6- STA. 118+30 TO STA. 130+16 LT
- FROM -SR6- STA. 156+00 TO STA. 159+77 LT
- FROM -SR6- STA. 161+00 TO STA. 174+50 LT
- FROM -SR7- STA. 32+50 TO STA. 34+00 LT
- FROM -SR8- STA. 25+85 TO STA. 26+85 RT
- FROM -SR8- STA. 33+80 TO STA. 36+00 RT
- FROM -SR9- STA. 20+32 TO STA. 23+00 RT
- FROM -SR9- STA. 23+07 TO STA. 27+72 RT
- FROM -SR9- STA. 10+34 TO STA. 12+72 LT
- FROM -SR9- STA. 13+60 TO STA. 17+81 RT
- FROM -SR9- STA. 20+32 TO STA. 23+00 RT
- FROM -SR9- STA. 23+07 TO STA. 38+00 RT
- FROM -SR10- STA. 20+72 TO STA. 24+14 RT
- FROM -SR10- STA. 31+55 TO STA. 34+12 RT
- FROM -SR10- STA. 35+32 TO STA. 38+40 RT
- FROM -SR10- STA. 44+19 TO STA. 56+43 RT
- FROM -SR10- STA. 76+62 TO STA. 86+37 RT
- FROM -SR10- STA. 91+88 TO STA. 96+33 RT
- FROM -SR10- STA. 102+08 TO STA. 105+20 RT
- FROM -SR10- STA. 105+30 TO STA. 109+45 RT
- FROM -SR10- STA. 119+35 TO STA. 134+35 RT
- FROM -SR10- STA. 135+58 TO STA. 139+90 RT
- FROM -SR10- STA. 140+05 TO STA. 145+43 LT
- FROM -SR12- STA. 10+40 TO STA. 16+00 LT
- FROM -SR12- STA. 10+50 TO STA. 11+00 RT
- FROM -SR13- STA. 15+88 TO STA. 17+85 RT
- FROM -SR2- STA. 29+06 TO STA. 35+65 RT
- FROM -Y2RPC- STA. 10+50 TO STA. 20+70 RT
- FROM -Y2RPD- STA. 19+25 TO STA. 21+10 LT



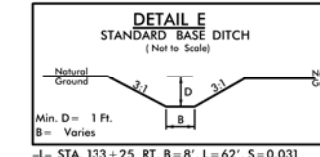
- FROM -L- STA. 105+50 TO STA. 119+00 RT
- FROM -L- STA. 302+50 TO STA. 312+00 LT
- FROM -SR6- STA. 26+85 TO STA. 32+15 LT
- FROM -SR6- STA. 60+72 TO STA. 80+06 LT
- FROM -SR6- STA. 90+52 TO STA. 106+88 LT
- FROM -SR6- STA. 137+15 TO STA. 141+85 LT
- FROM -SR6- STA. 143+00 TO STA. 150+49 LT
- FROM -SR6- STA. 150+54 TO STA. 155+77 LT
- FROM -SR10- STA. 25+12 TO STA. 30+29 RT
- FROM -SR10- STA. 38+80 TO STA. 44+19 RT
- FROM -SR10- STA. 56+43 TO STA. 76+62 RT
- FROM -SR10- STA. 96+33 TO STA. 102+08 RT
- FROM -SR10- STA. 114+80 TO STA. 115+97 RT



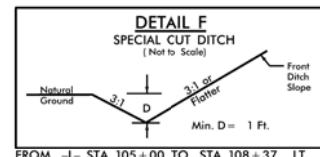
- FROM -L- STA. 323+50 TO STA. 327+50 LT
- FROM -L- STA. 328+00 TO STA. 330+00 LT
- FROM -L- STA. 331+00 TO STA. 336+00 LT
- FROM -L- STA. 339+50 TO STA. 346+05 LT
- FROM -L- STA. 426+50 TO STA. 427+00 LT



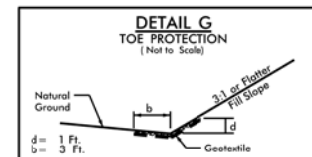
- SR7- STA. 55+00 RT, L= 40'
- SR9- STA. 11+00 RT, L= 30'
- SR9- STA. 11+00 RT, L= 30'
- Y4RPC- STA. 20+90 TO 21+96 RT, L= 106'



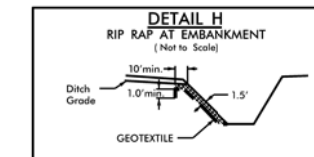
- L- STA. 133+25 RT, B=8', L=62', S=0.031
- L- STA. 133+35 RT, B=8', L=703', S=0.001
- L- STA. 135+16 RT, B=8', L=215', S=0.002
- SR1- STA. 32+50 LT, B=5', L=150', S=0.001
- SR1- STA. 37+50 LT, B=5', L=185', S=0.001
- SR6- STA. 102+58 LT, B=8', L=158', S=0.001
- SR6- STA. 118+30 LT, B=8', L=384', S=0.001
- SR6- STA. 157+15 LT, B=8', L=453', S=0.001
- SR6- STA. 172+00 RT, B=5', L=140', S=0.003
- SR7- STA. 39+75 TO 50+50 LT, B=5', L=1570', S=0.001
- SR7- STA. 50+25 LT, B=2', L=40', S=0.0148
- SR7- STA. 50+50 TO 52+50 RT, B=5', L=140', S=0.002
- SR10- STA. 66+19 RT, B=8', L=1278', S=0.0017
- SR12- STA. 29+00 LT, B=2', L=36', S=0.010
- Y1RPA- STA. 23+50 RT, B=3', L=70', S=0.02



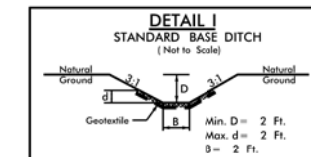
- FROM -L- STA. 105+00 TO STA. 108+37 LT
- FROM -SR1- STA. 24+00 TO STA. 24+90 LT
- FROM -SR1- STA. 42+77 TO STA. 44+45 LT
- FROM -SR2- STA. 37+67 TO STA. 39+75 RT
- FROM -SR2- STA. 40+05 TO STA. 44+38 RT
- FROM -SR2- STA. 44+82 TO STA. 47+00 RT
- FROM -SR2- STA. 48+80 TO STA. 49+50 RT
- FROM -SR4- STA. 16+58 TO STA. 18+50 LT
- FROM -SR4- STA. 23+24 TO STA. 25+50 LT
- FROM -SR4- STA. 37+77 TO STA. 40+40 LT
- FROM -SR4- STA. 40+40 TO STA. 42+50 LT
- FROM -SR4- STA. 47+65 TO STA. 50+75 LT
- FROM -SR5- STA. 74+14 TO STA. 79+45 RT
- FROM -Y5RPA- STA. 17+11 TO STA. 21+91 RT
- FROM -SR8A- STA. 10+62 TO STA. 13+75 RT
- FROM -SR10- STA. 140+55 TO STA. 145+77 RT
- FROM -SR13- STA. 23+94 TO STA. 27+44 LT



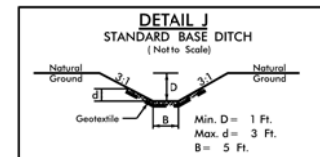
- FROM -SR07- STA. 24+35 TO STA. 25+50 LT
- FROM -SR07- STA. 26+20 TO STA. 28+38 LT
- FROM -SR07- STA. 28+85 TO STA. 29+70 LT
- FROM -Y2- STA. 17+65 TO STA. 19+05 RT
- FROM -Y2RPB- STA. 11+30 TO STA. 16+85 LT
- FROM -Y4- STA. 18+50 TO STA. 20+25 LT
- FROM -Y4- STA. 18+50 TO STA. 20+25 LT
- FROM -Y4RPB- STA. 13+45 TO STA. 14+53 LT



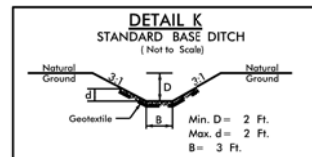
- Type of Liner = CL I Rip-Rap



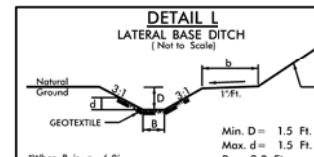
- SR12- STA. 16+85 LT, L= 30', S=0.002



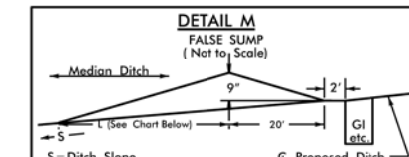
- SR12- STA. 17+50 LT, L= 25', S=0.002



- Y4- STA. 20+00 TO 20+35 LT, L= 35', S=0.006

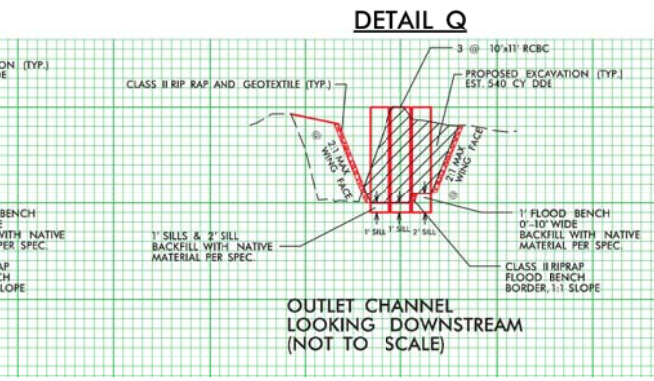
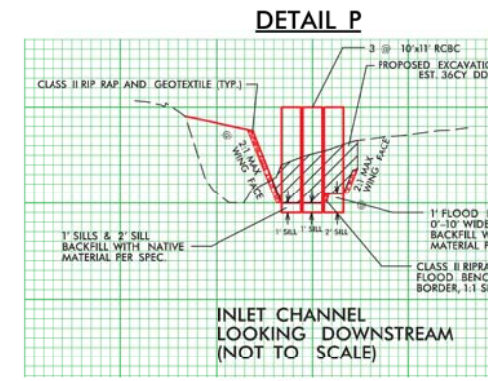
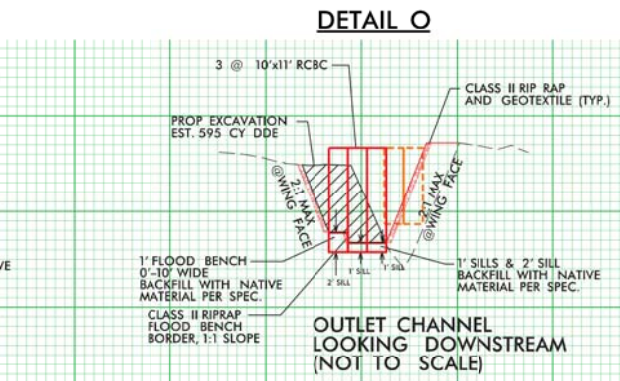
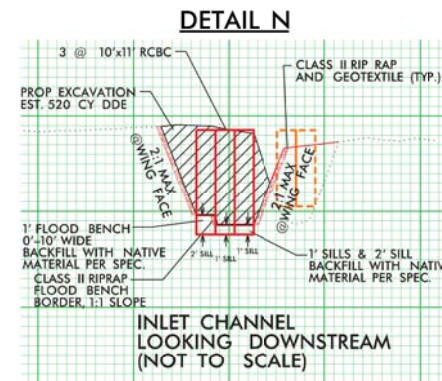


- *When B is < 6.0'
- B= 2.0 ft.
- b= 5.0 ft.



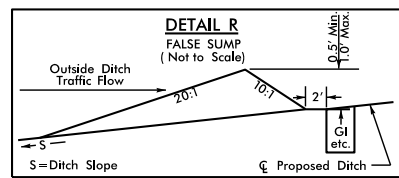
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

SEE PLANS FOR LOCATIONS

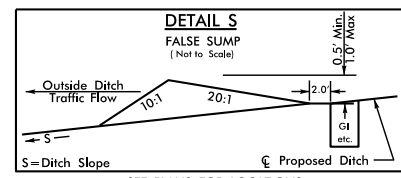


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

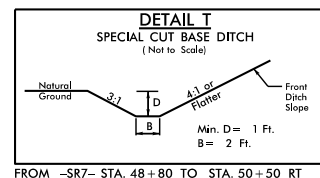
PERMIT DRAWING SHEET 3 OF 79



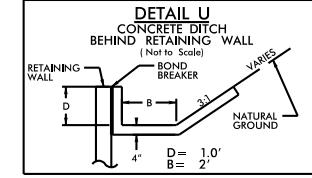
SEE PLANS FOR LOCATIONS



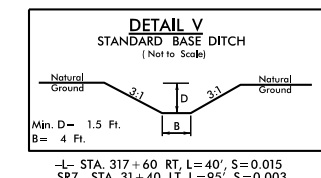
SEE PLANS FOR LOCATIONS



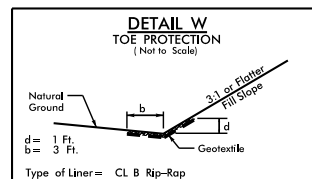
FROM -SR7- STA. 48+80 TO STA. 50+50 RT
FROM -SR7- STA. 48+50 TO STA. 49+65 LT
FROM -SR7- STA. 55+00 TO STA. 59+00 LT
FROM -SR8- STA. 20+28 TO STA. 20+60 RT
FROM -SR8- STA. 22+00 TO STA. 24+00 RT
FROM -SR8- STA. 36+00 TO STA. 38+00 RT
FROM -SR2- STA. 21+45 TO STA. 27+88 RT
FROM -SR2- STA. 35+65 TO STA. 37+62 RT
FROM -Y4RPC- STA. 16+06 TO STA. 16+50 RT
FROM -Y4RPB- STA. 16+00 TO STA. 17+00 LT



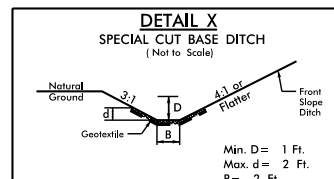
-L- STA. 276+00 TO 278+00 LT
-L- STA. 278+30 TO 279+00 RT
-L- STA. 279+00 TO 279+91 LT
-L- STA. 280+20 TO 281+46 RT
-L- STA. 315+70 TO 316+80 LT
-L- STA. 367+45 TO 368+70 LT
-L- STA. 369+39 TO 369+96 RT
-L- STA. 369+40 TO 369+96 LT
-L- STA. 370+73 TO 372+02 RT
-SR7- STA. 47+00 TO 48+78 RT



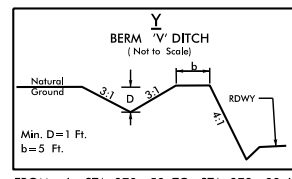
-L- STA. 317+60 RT, L=40', S=0.015
-SR7- STA. 31+40 LT, L=95', S=0.003



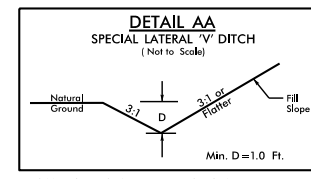
Type of Liner = CL B Rip-Rap
FROM -L- STA. 317+73 TO STA. 320+53 RT
FROM -SR04- STA. 27+65 TO STA. 29+70 LT
FROM -SR04- STA. 29+85 TO STA. 32+95 LT
FROM -SR05- STA. 32+65 TO STA. 36+21 RT



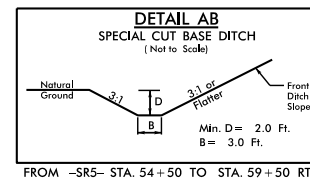
Type of Liner = CLASS B Rip-Rap
FROM -Y4RPB- STA. 14+50 TO STA. 16+00 LT



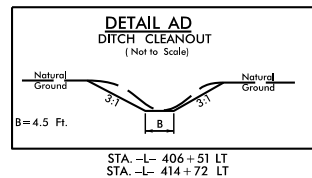
FROM -L- STA. 370+50 TO STA. 373+00 LT



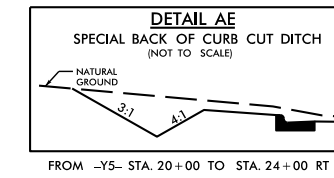
FROM -SR1- STA. 15+50 TO STA. 17+58 LT
FROM -SR1- STA. 18+35 TO STA. 19+40 LT
FROM -SR1- STA. 45+20 TO STA. 46+75 LT
FROM -YSRPC- STA. 18+50 TO STA. 21+50 RT
FROM -SR5- STA. 30+16 TO STA. 32+65 RT



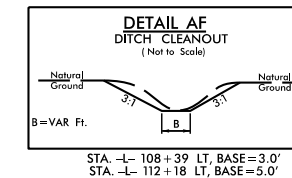
FROM -SR5- STA. 54+50 TO STA. 59+50 RT
FROM -SR4- STA. 18+50 TO STA. 19+26 LT



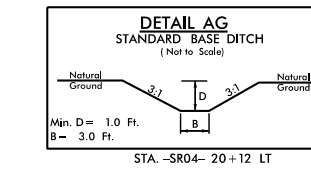
STA. -L- 406+51 LT
STA. -L- 414+72 LT



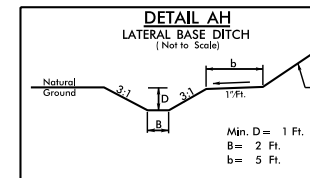
FROM -YS- STA. 20+00 TO STA. 24+00 RT



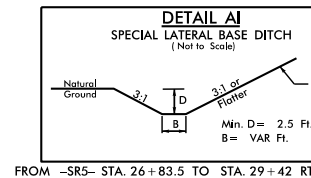
STA. -L- 108+39 LT, BASE=3.0'
STA. -L- 112+18 LT, BASE=5.0'
STA. -L- 253+80 LT, BASE=10.0'
STA. -SR01- 49+28 LT, BASE=4.5'
STA. -SR01- 57+29 LT, BASE=4.5'
STA. -SR04- 64+28 LT, BASE=10.0'
STA. -SR05- 41+10 RT, BASE=4.0'
STA. -SR09- 23+10 RT, BASE=10.0'
STA. -SR12- 28+40 LT, BASE=5.0'



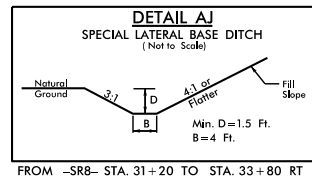
STA. -SR04- 20+12 LT



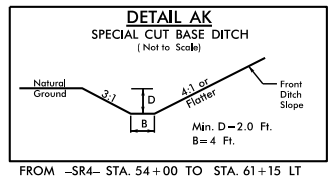
FROM -SR6- STA. 16+85 TO 23+00 RT
FROM -SR12- STA. 18+75 TO STA. 19+25 LT
FROM -SR12- STA. 20+25 TO STA. 21+00 LT
FROM -SR12- STA. 24+86 TO STA. 28+35 LT
FROM -SR12- STA. 31+87 TO STA. 32+90 LT
FROM -Y2RPD- STA. 19+35 TO STA. 21+50 RT
FROM -Y4- STA. 21+30 TO STA. 22+38 RT
FROM -Y4RPB- STA. 17+00 TO STA. 19+53 LT



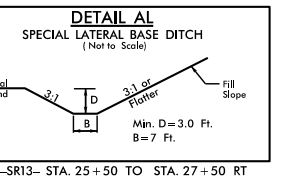
FROM -SR5- STA. 26+83.5 TO STA. 29+42 RT, B=3.0'
FROM -SR5- STA. 41+11 TO STA. 46+00 RT, B=4.0'
FROM -SR5- STA. 49+70 TO STA. 51+10 RT, B=4.0'



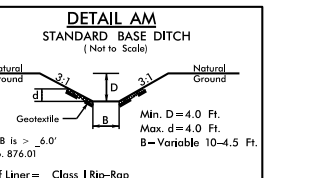
FROM -SR8- STA. 31+20 TO STA. 33+80 RT



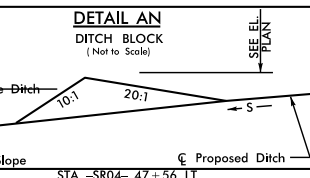
FROM -SR4- STA. 54+00 TO STA. 61+15 LT
FROM -SR4- STA. 62+30 TO STA. 64+17 LT
FROM -SR13- STA. 17+85 TO STA. 20+88 RT



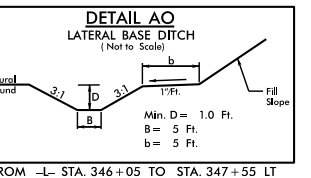
FROM -SR13- STA. 25+50 TO STA. 27+50 RT



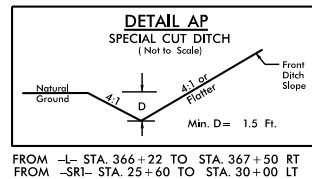
Type of Liner = Class I Rip-Rap
STA. -L- 406+35 RT



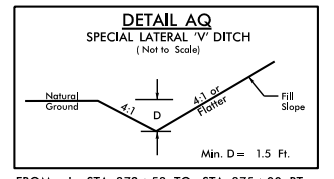
STA. -SR04- 47+56 LT



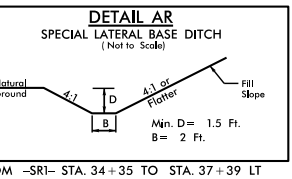
FROM -L- STA. 346+05 TO STA. 347+55 LT
FROM -SR6- STA. 10+80 TO STA. 13+22 RT
FROM -SR6- STA. 13+22 TO STA. 16+85 RT



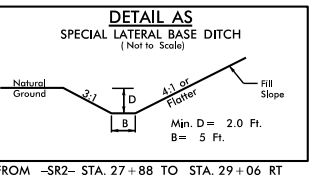
FROM -L- STA. 366+22 TO STA. 367+50 RT
FROM -SR1- STA. 25+60 TO STA. 30+00 LT
FROM -Y4RPC- STA. 16+06 TO STA. 22+00 LT
FROM -Y4RPA- STA. 20+68 TO STA. 22+17 RT
FROM -L- STA. 370+50 TO STA. 371+50 LT



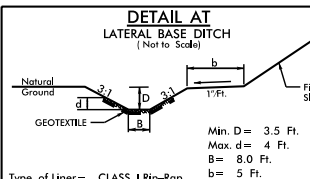
FROM -L- STA. 372+53 TO STA. 375+00 RT
FROM -SR1- STA. 30+00 TO STA. 32+70 LT
FROM -SR1- STA. 32+75 TO STA. 34+35 LT
FROM -SR1- STA. 37+44 TO STA. 42+00 LT



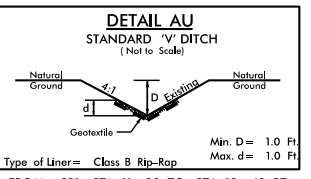
FROM -SR1- STA. 34+35 TO STA. 37+39 LT



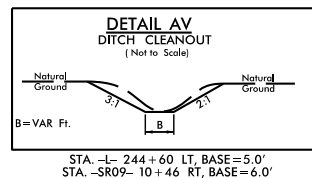
FROM -SR2- STA. 27+88 TO STA. 29+06 RT



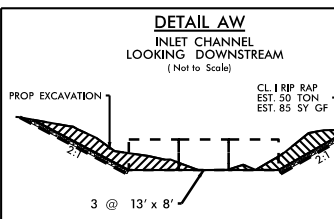
Type of Liner = CLASS I Rip-Rap
FROM -Y4RPB- STA. 13+80 TO STA. 14+50 LT



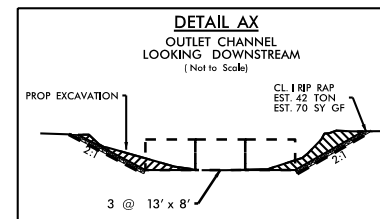
Type of Liner = Class B Rip-Rap
FROM -SR1- STA. 11+30 TO STA. 12+40 RT
(No Proposed Ditch Grade)



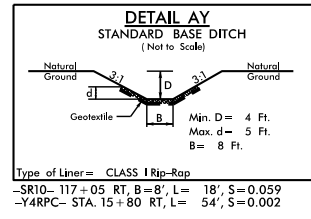
STA. -L- 244+60 LT, BASE=5.0'
STA. -SR09- 10+46 RT, BASE=6.0'



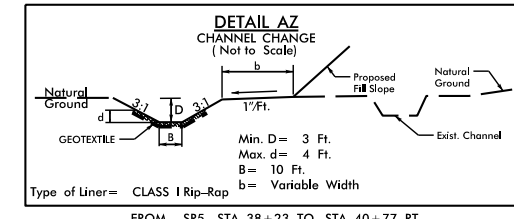
-YS- STA. 18+50 LT



-YS- STA. 18+06 RT



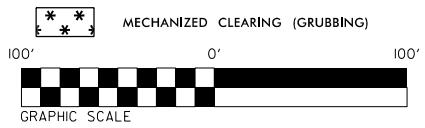
Type of Liner = CLASS I Rip-Rap
-SR10- 117+05 RT, B=8', L=18', S=0.059
-Y4RPC- STA. 15+80 RT, L=54', S=0.002



FROM -SR5- STA. 38+23 TO STA. 40+77 RT

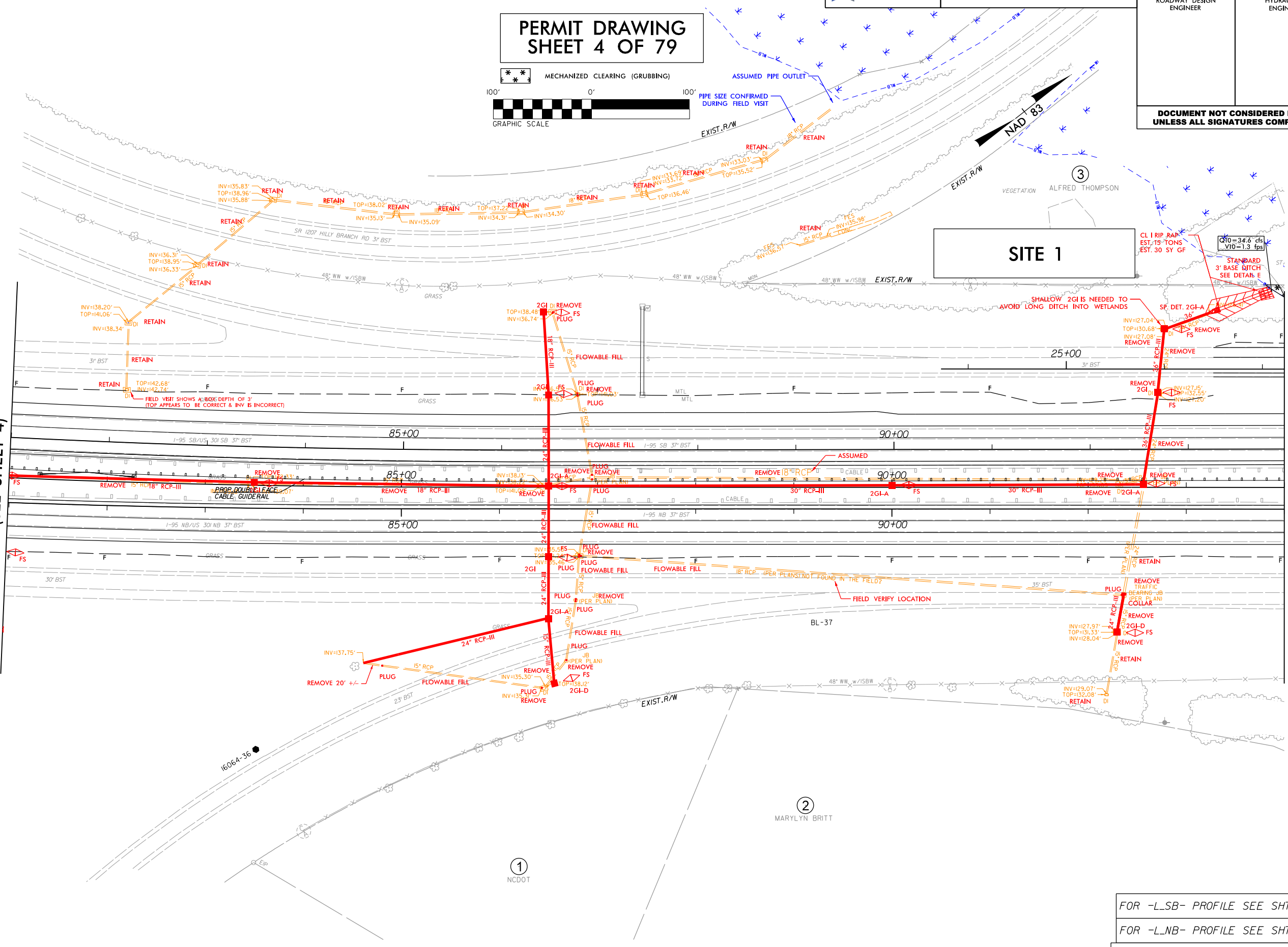
PROJECT REFERENCE NO. 1-6064/1-5879		SHEET NO. 5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
RW SHEET NO.			

PERMIT DRAWING SHEET 4 OF 79



MATCHLINE -L- STA. 81+00.00
(SEE SHEET 4)

MATCHLINE -L- STA. 94+00.00
(SEE SHEET 6)



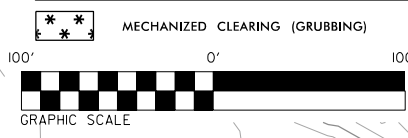
FOR -L-SB- PROFILE SEE SHT.37
 FOR -L-NB- PROFILE SEE SHT.37
 FOR -YIRPA- PROFILE SEE SHT.54

\$DATE\$ \$TIME\$
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 kevin_alford

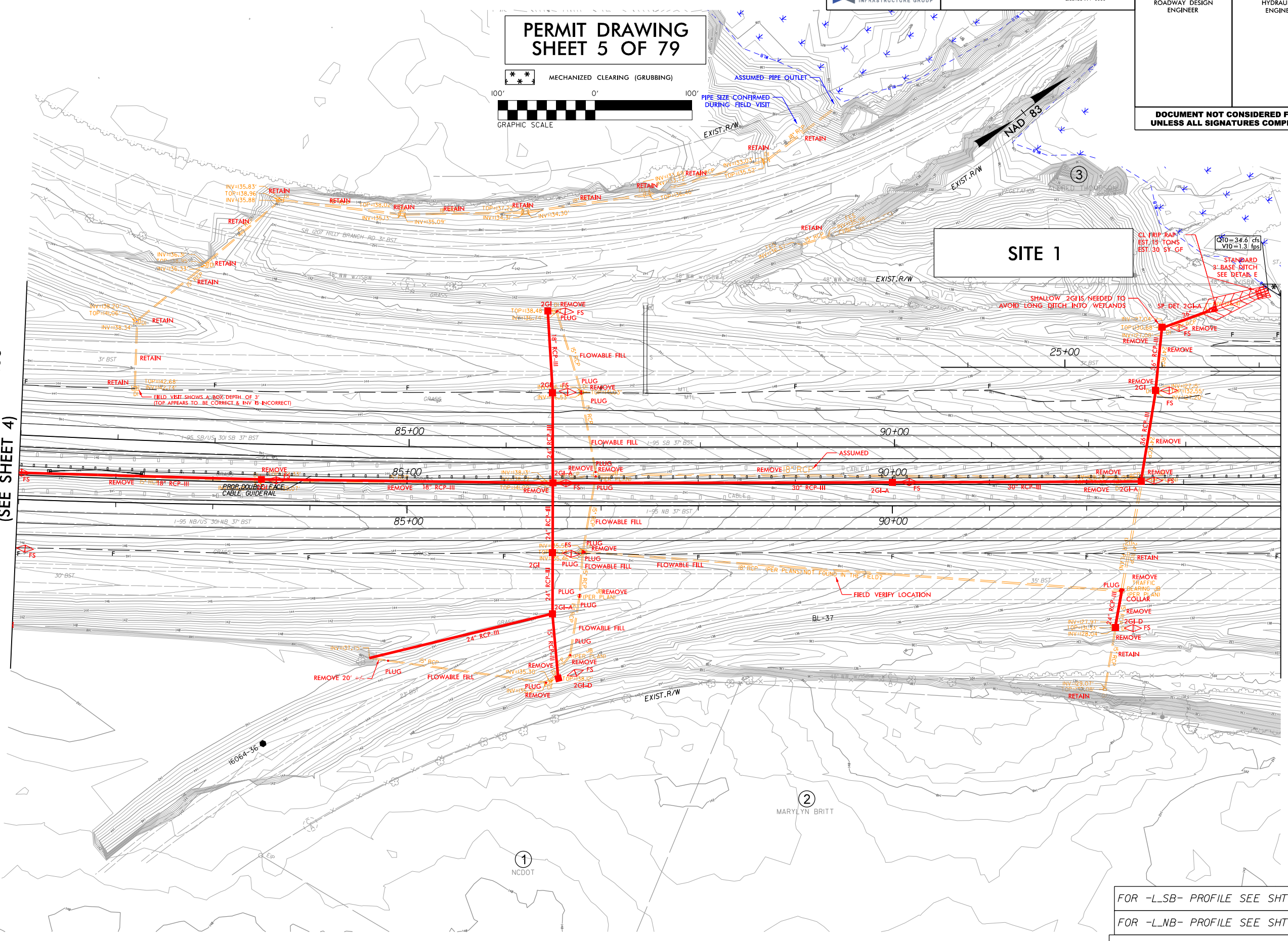
8/17/99
DATE: 8/17/99
DRAWN BY: K. King
CHECKED BY: K. King
PROJECT: 1-6064-Hyd.prm.Plansheets.ICE_contours.dgn

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 5 OF 79



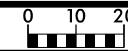
MATCHLINE -L- STA. 81 + 00.00
(SEE SHEET 4)



MATCHLINE -L- STA. 94 + 00.00
(SEE SHEET 6)

FOR -L-SB- PROFILE SEE SHT.37
FOR -L-NB- PROFILE SEE SHT.37
FOR -YIRPA- PROFILE SEE SHT.54

6/23/16



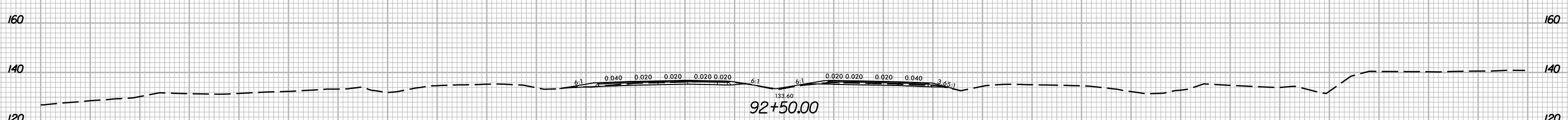
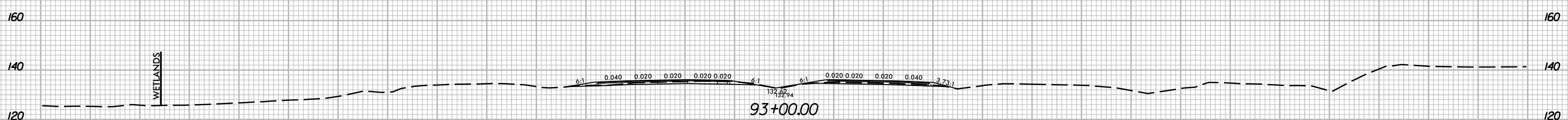
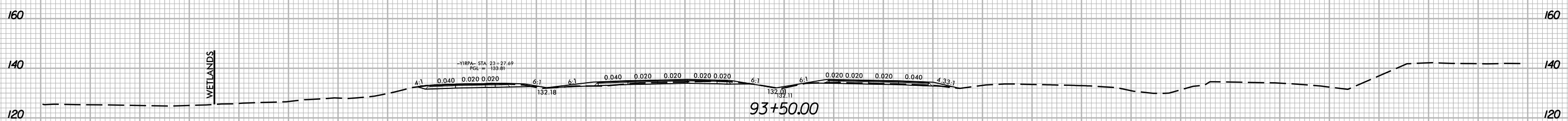
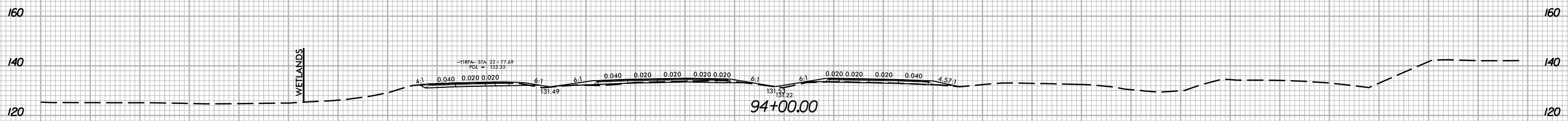
PROJ. REFERENCE NO.
1-6064/1-5879

SHEET NO.
X-14

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SITE 1


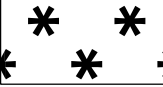

PERMIT DRAWING SHEET 6 OF 79

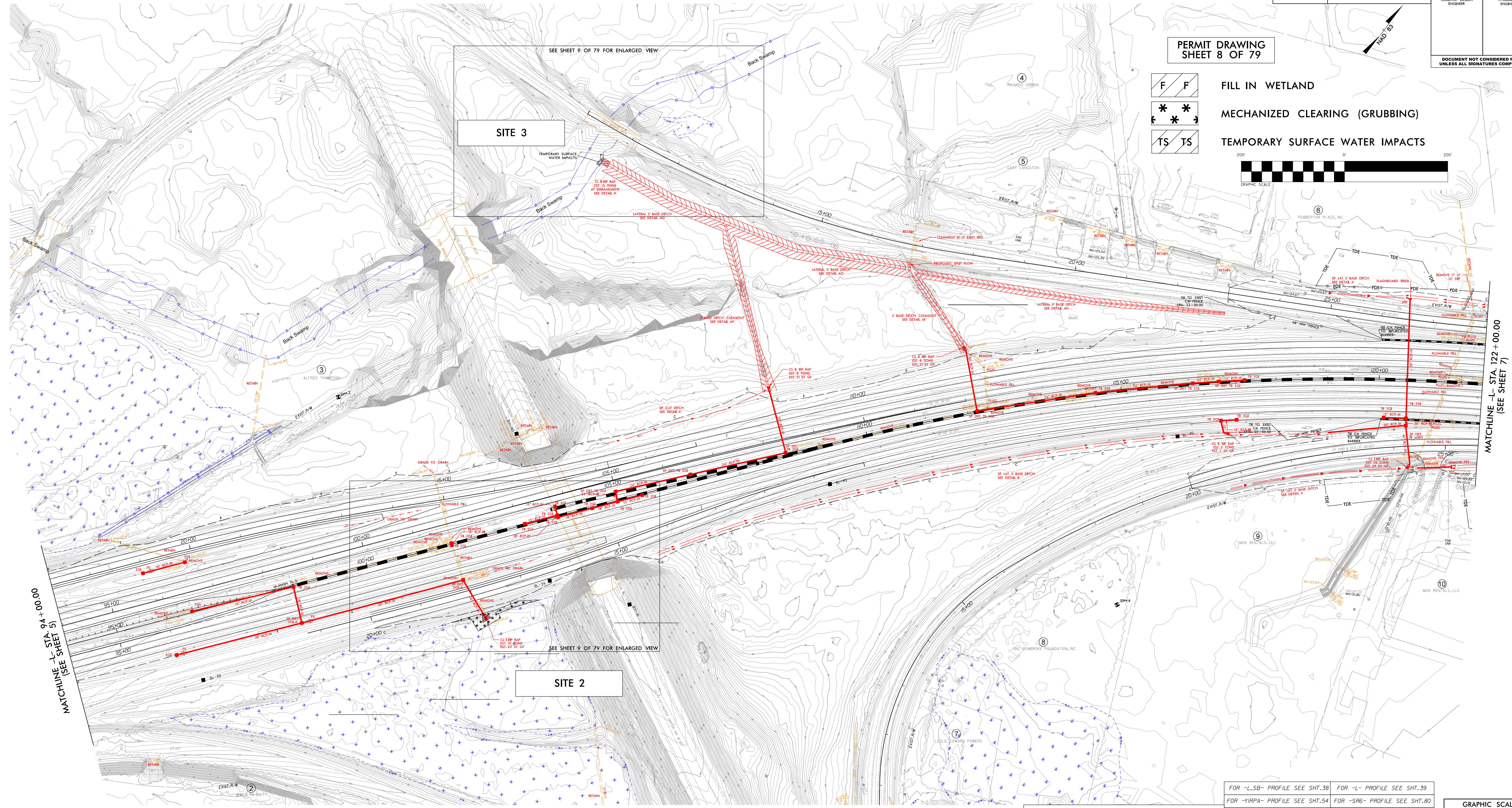
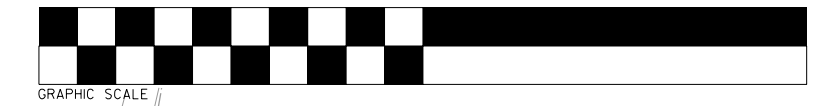


-L-

7/13/2022
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PERMIT DRAWING SHEET 8 OF 79

-  **F F** FILL IN WETLAND
-  *** *** MECHANIZED CLEARING (GRUBBING)
-  **TS TS** TEMPORARY SURFACE WATER IMPACTS

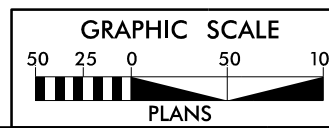


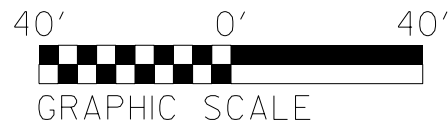
MATCHLINE - STA. 94+00.00 (SEE SHEET 5)

MATCHLINE - STA. 122+00.00 (SEE SHEET 7)

FOR -L-SB- PROFILE SEE SHT.38	FOR -L- PROFILE SEE SHT.39
FOR -YIRPA- PROFILE SEE SHT.54	FOR -SR6- PROFILE SEE SHT.80
FOR -YIRPD- PROFILE SEE SHT.54	FOR -SRI0- PROFILE SEE SHT.90

NORTHBOUND R/W LABELED OFF -SRI0- UNLESS NOTED OTHERWISE.
 SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.





**SITE 3
ENLARGEMENT**

**PERMIT DRAWING
SHEET 10 OF 79**

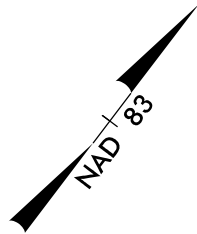


TEMPORARY SURFACE WATER IMPACTS

TEMPORARY SURFACE
WATER IMPACTS

**CL II RIP RAP
EST. 15 TONS
AT EMBANKMENT
SEE DETAIL H**

LATERAL 5' BASE DITCH



BST BRIDGE DECK

Back Swamp

Back Sw

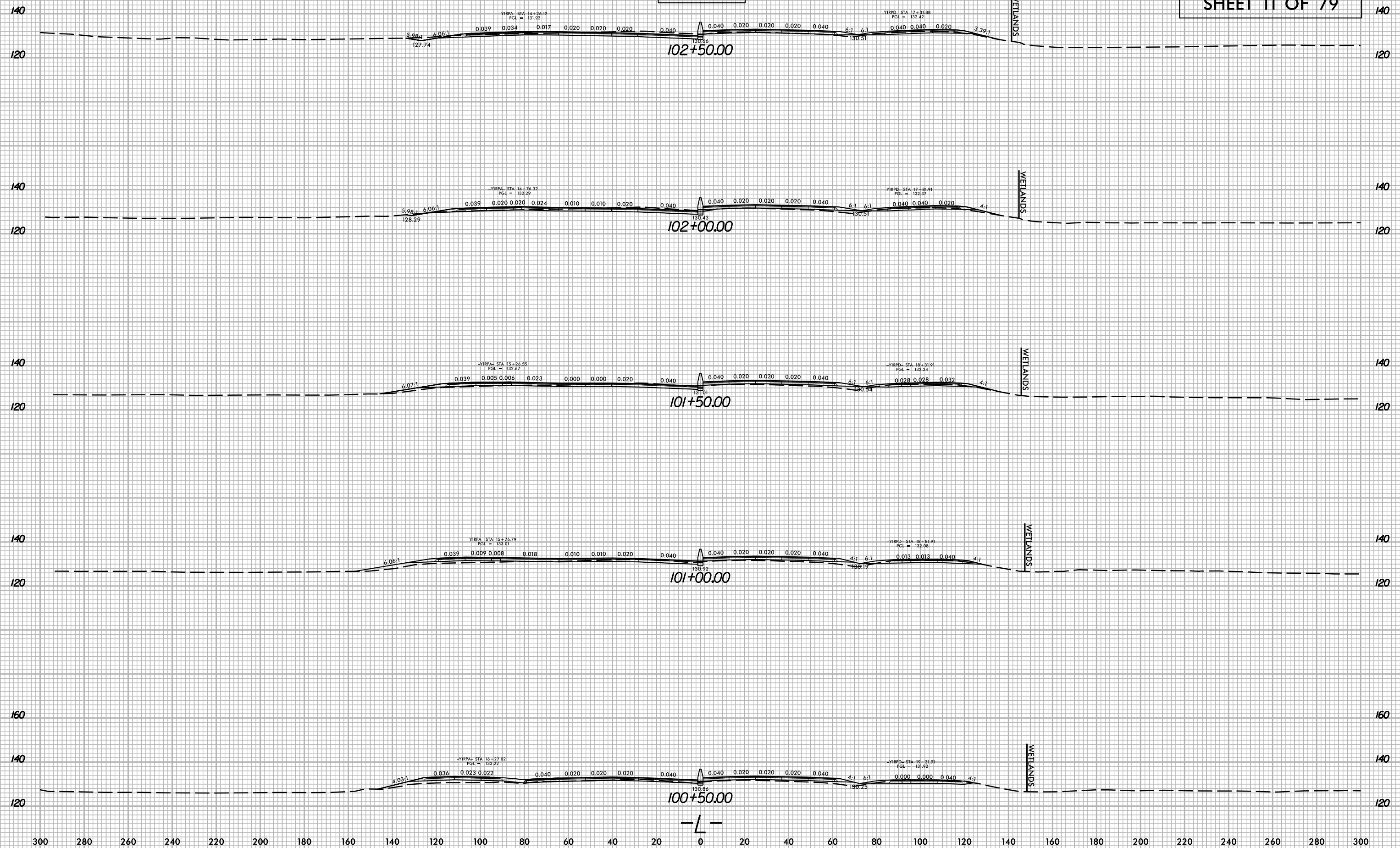
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6/23/16

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SITE 2

**PERMIT DRAWING
SHEET 11 OF 79**



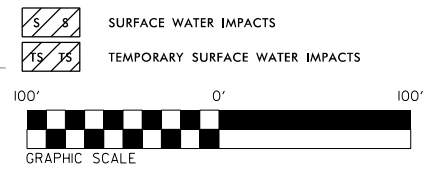
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8/17/99

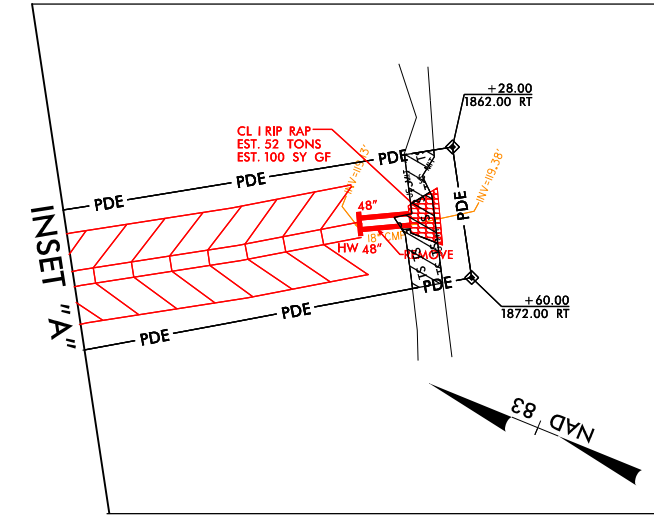


ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 8A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

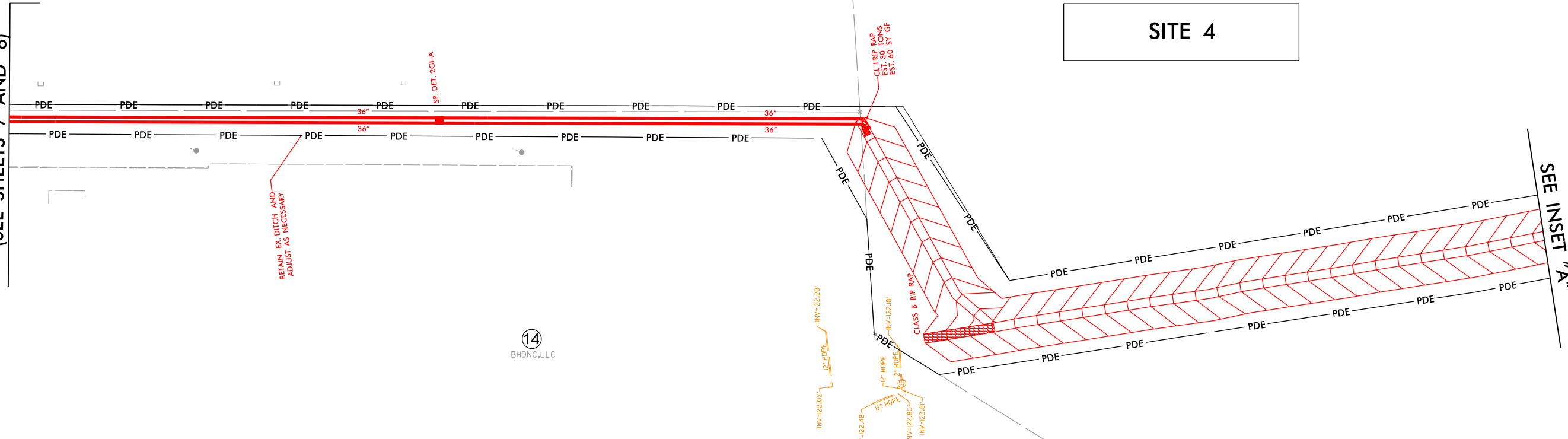


PERMIT DRAWING SHEET 12 OF 79



SITE 4

MATCHLINE
(SEE SHEETS 7 AND 8)



RETAIN EX. DITCH AND
ADJUST AS NECESSARY

SP. DET. 2G1-A

CL 1 RIP RAP
EST. 52 TONS
EST. 100 SY GF

CLASS B RIP RAP

INV=122.02' 12" HOPE INV=122.29'

INV=122.48' 12" HOPE INV=122.80' 12" HOPE INV=123.81'

14
BHDNC,LLC

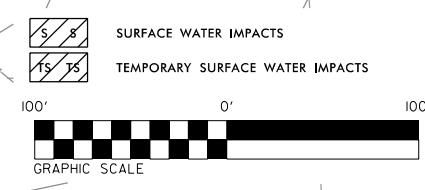
22
XMC PROPERTIES, LLC

R/W LABELED OFF -SRI0- UNLESS NOTED OTHERWISE.

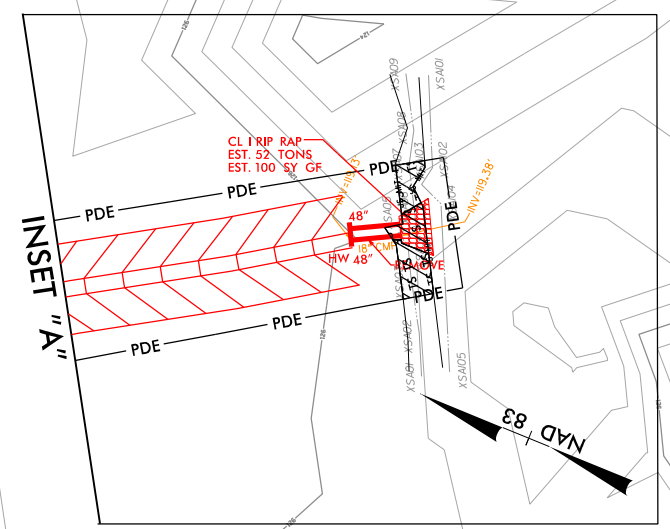
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 8/17/99

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 8A
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

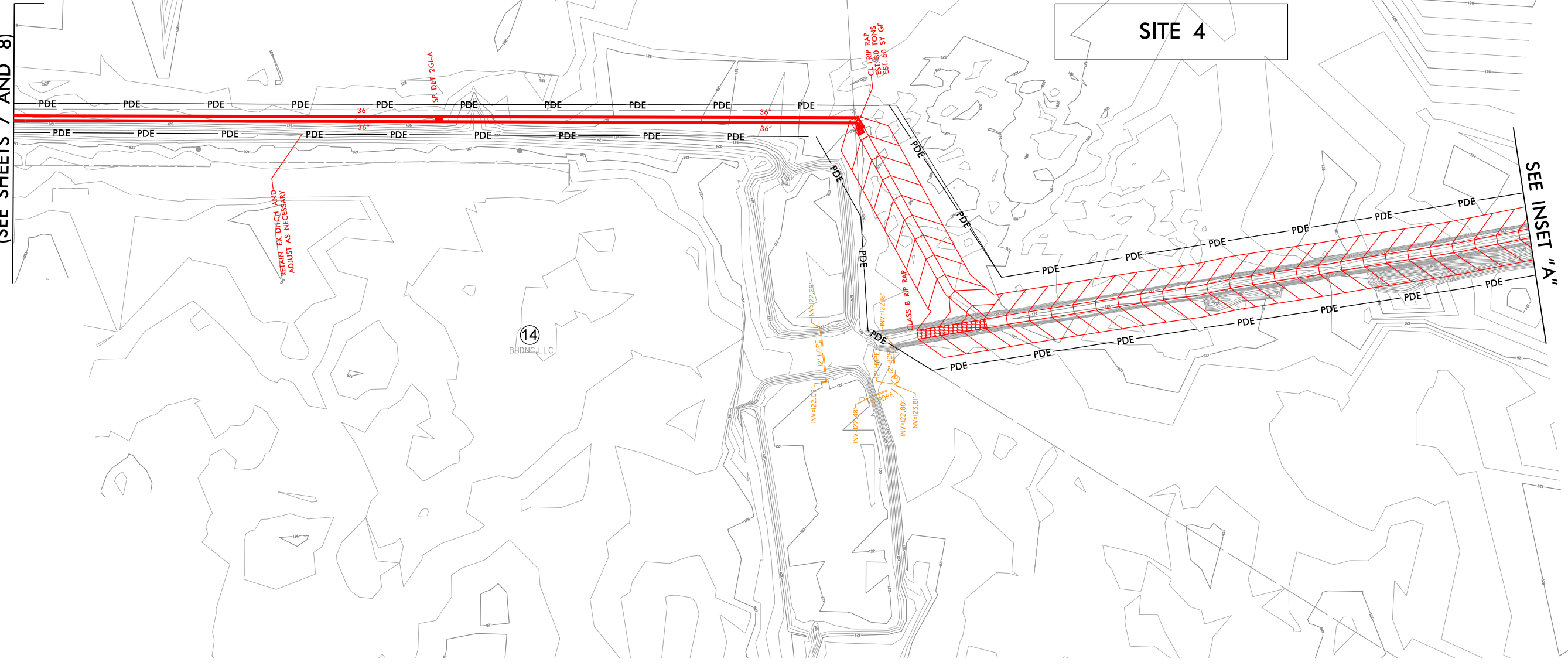


**PERMIT DRAWING
SHEET 13 OF 79**



SITE 4

**MATCHLINE
(SEE SHEETS 7 AND 8)**



SEE INSET "A"

R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

8/17/99

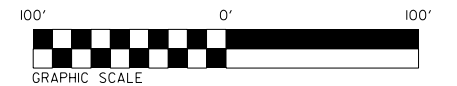


ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License # P-0999

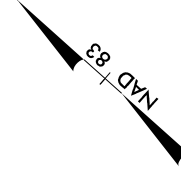
PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 10A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

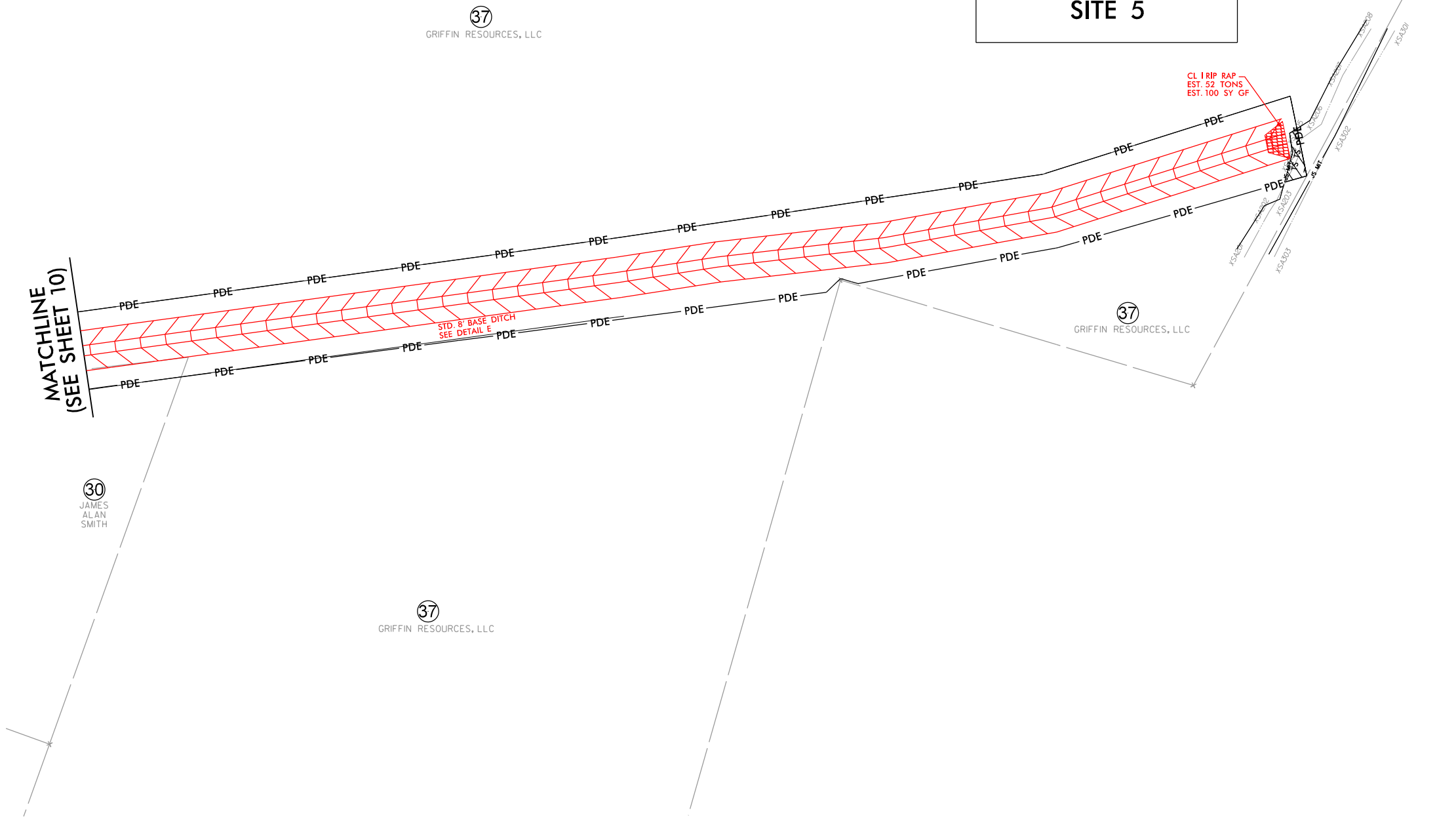
PERMIT DRAWING SHEET 14 OF 79



TEMPORARY SURFACE WATER IMPACTS



SITE 5



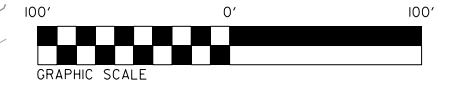
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R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

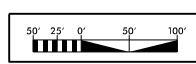
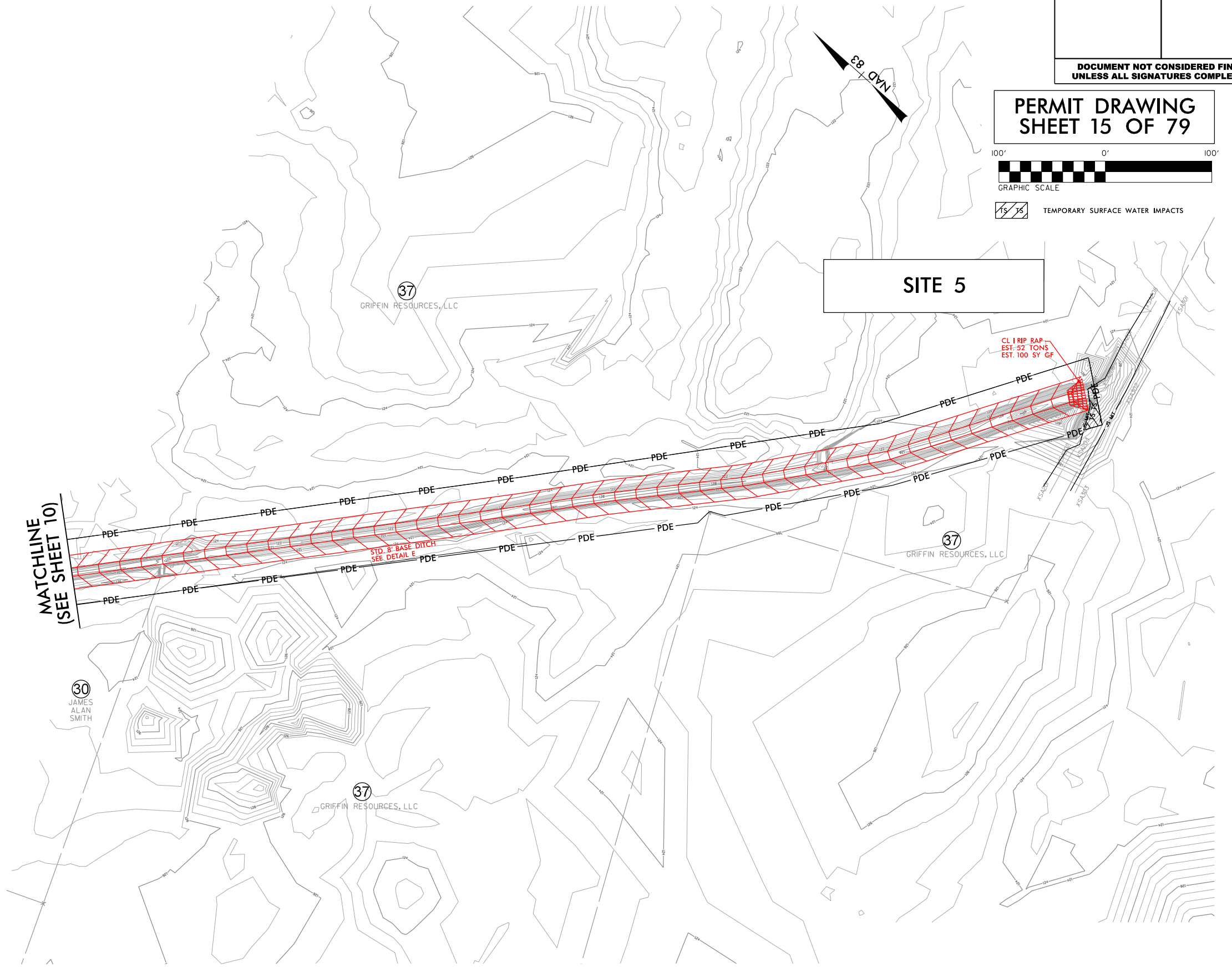
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**PERMIT DRAWING
SHEET 15 OF 79**



1s 7s TEMPORARY SURFACE WATER IMPACTS

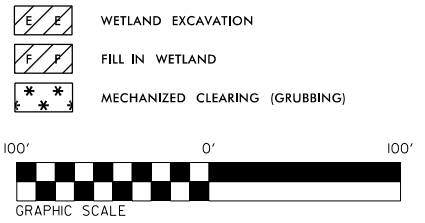
SITE 5



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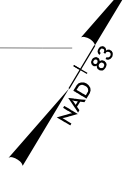
8/17/99

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



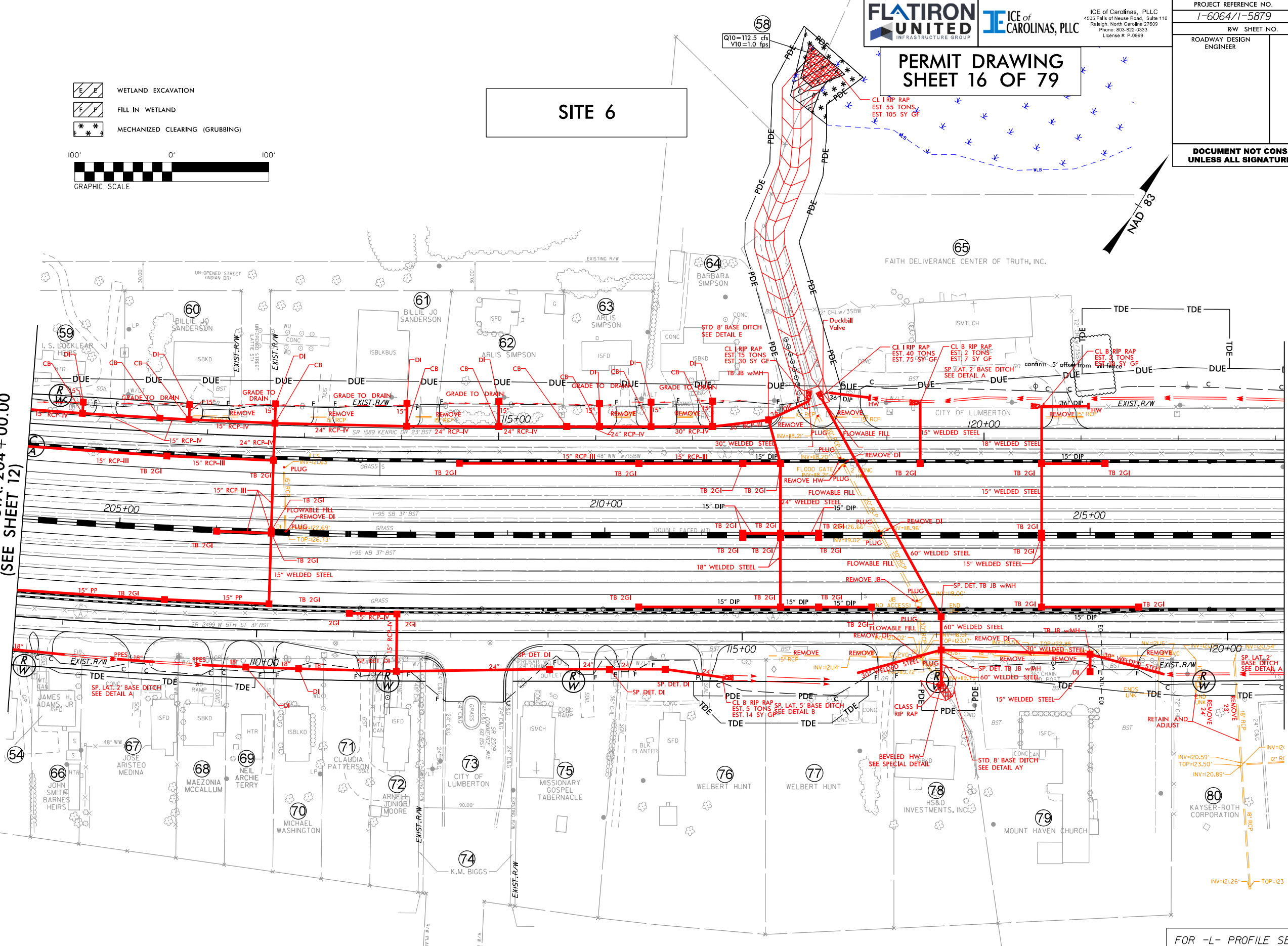
SITE 6

PERMIT DRAWING SHEET 16 OF 79



MATCHLINE -L- STA. 204 + 00.00 (SEE SHEET 12)

MATCHLINE -L- STA. 217 + 00.00 (SEE SHEET 14)



DATE: \$TIME\$
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NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE. FOR -SR6- PROFILE SEE SHT.83
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE. FOR -SR10- PROFILE SEE SHT.93

FOR -L- PROFILE SEE SHT.43

8.17/99

FLATIRON UNITED
INFRASTRUCTURE GROUP

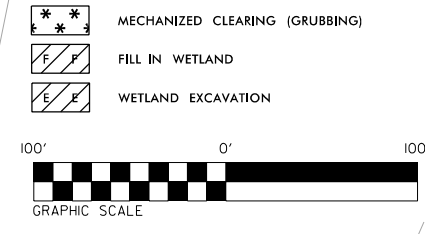
ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWING SHEET 17 OF 79

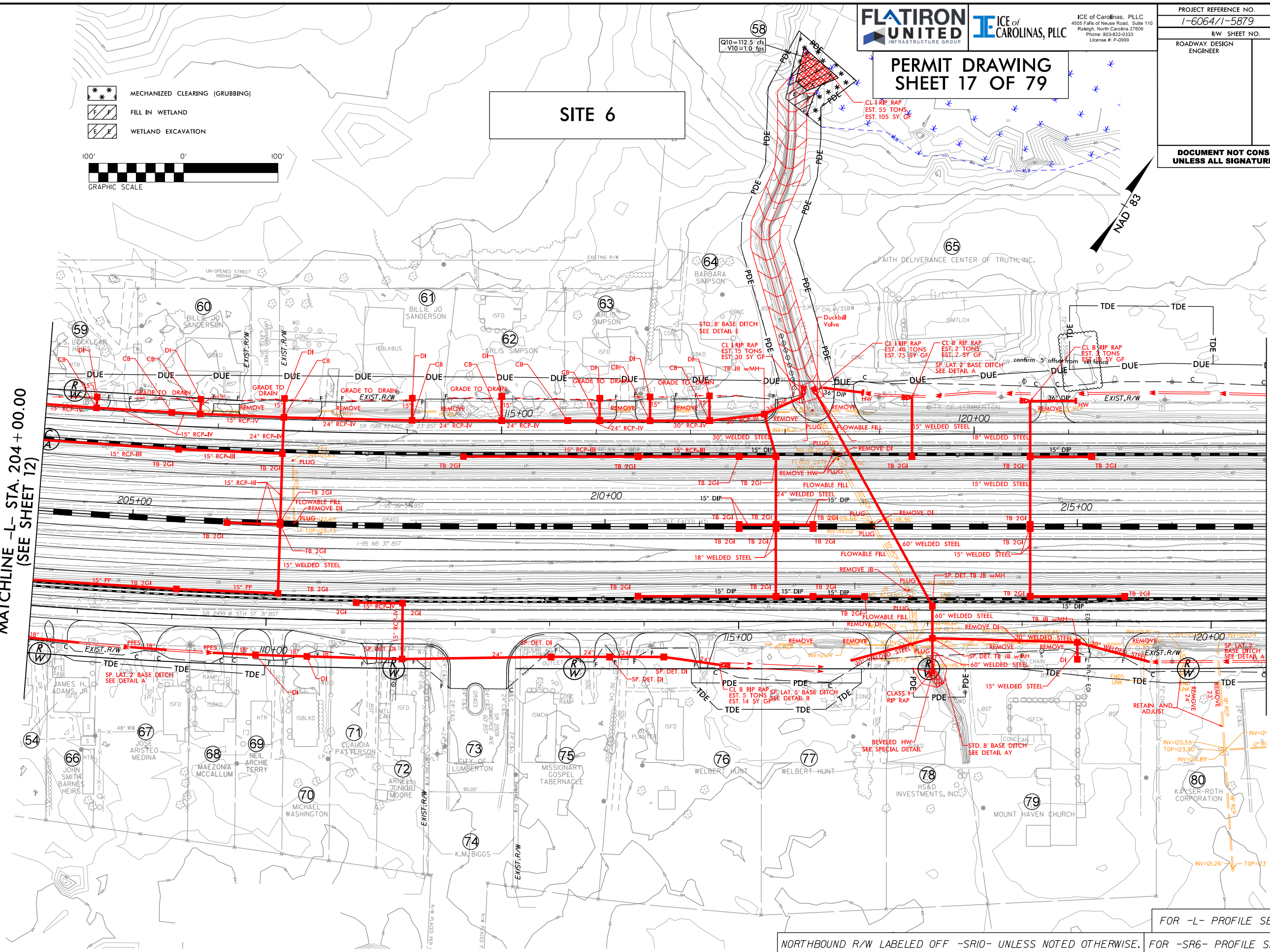
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UNLESS ALL SIGNATURES COMPLETED**



SITE 6

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(SEE SHEET 12)

MATCHLINE -L- STA. 217 + 00.00
(SEE SHEET 14)



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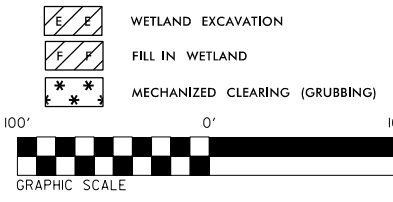
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	FOR -SR10- PROFILE SEE SHT.93

8/17/99

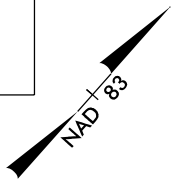


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PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 15
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

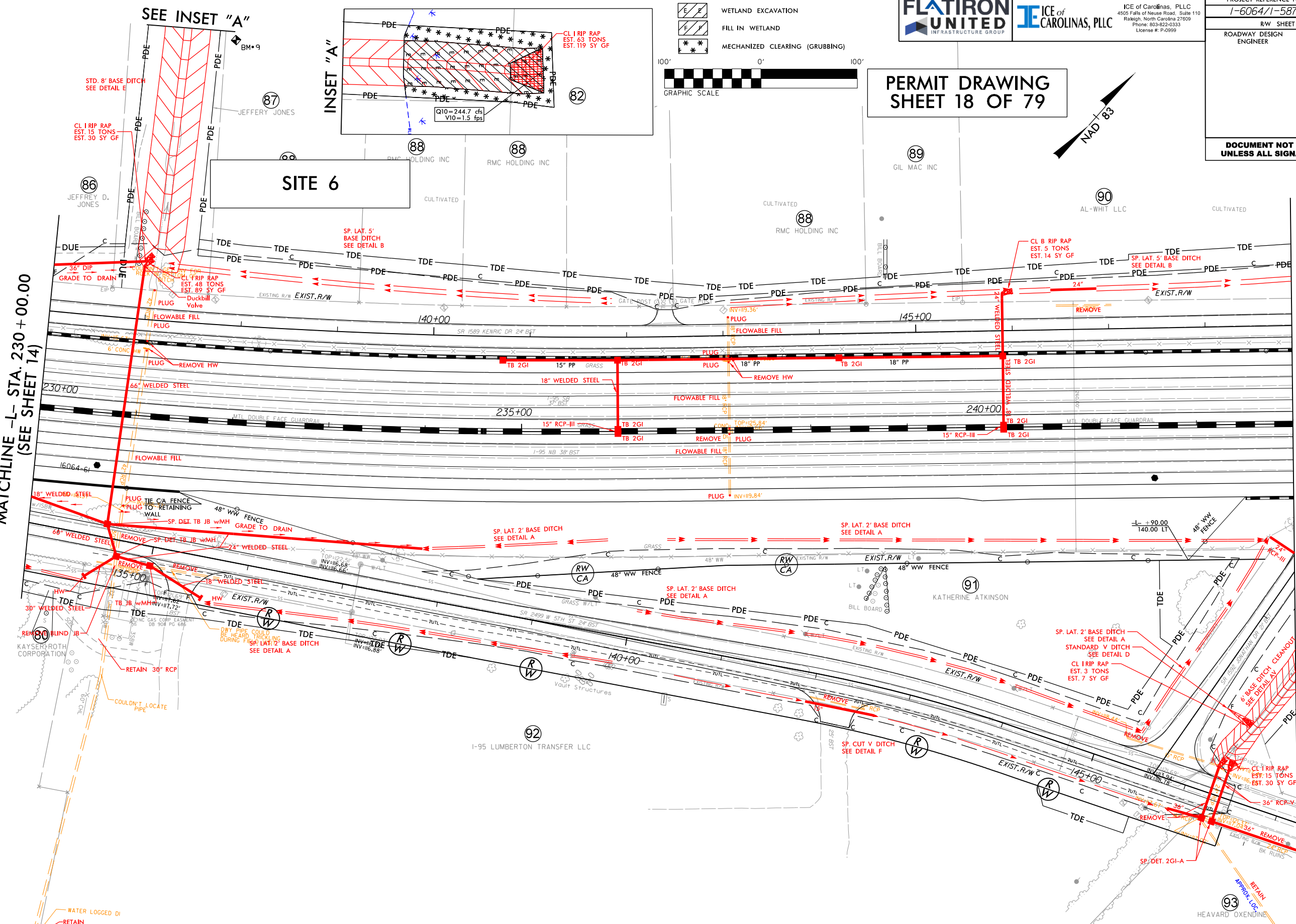


PERMIT DRAWING SHEET 18 OF 79



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MATCHLINE -L- STA. 243 + 00.00
(SEE SHEET 16)



DATE: \$TIME\$
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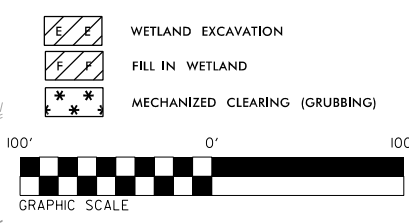
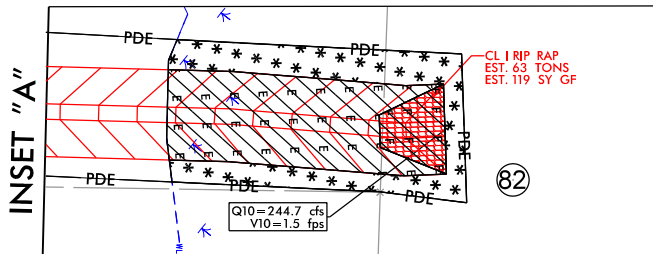
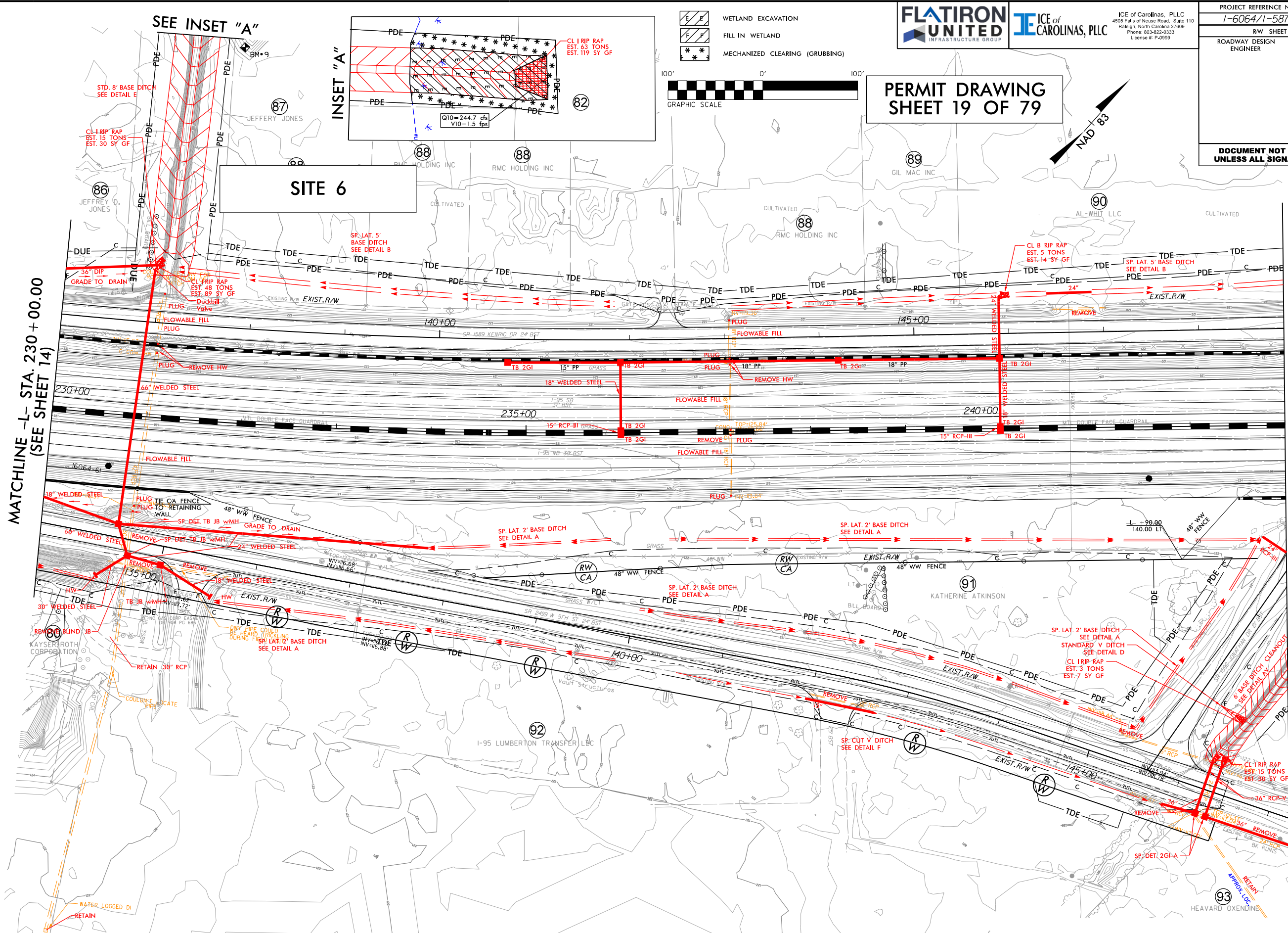
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SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84	FOR -SR9- PROFILE SEE SHT.89

8/17/99

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MATCHLINE -L- STA. 230 + 00.00
(SEE SHEET 14)

MATCHLINE -L- STA. 243 + 00.00
(SEE SHEET 16)



PERMIT DRAWING
SHEET 19 OF 79

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INFRASTRUCTURE GROUP

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Raleigh, North Carolina 27609
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License #: P-0999

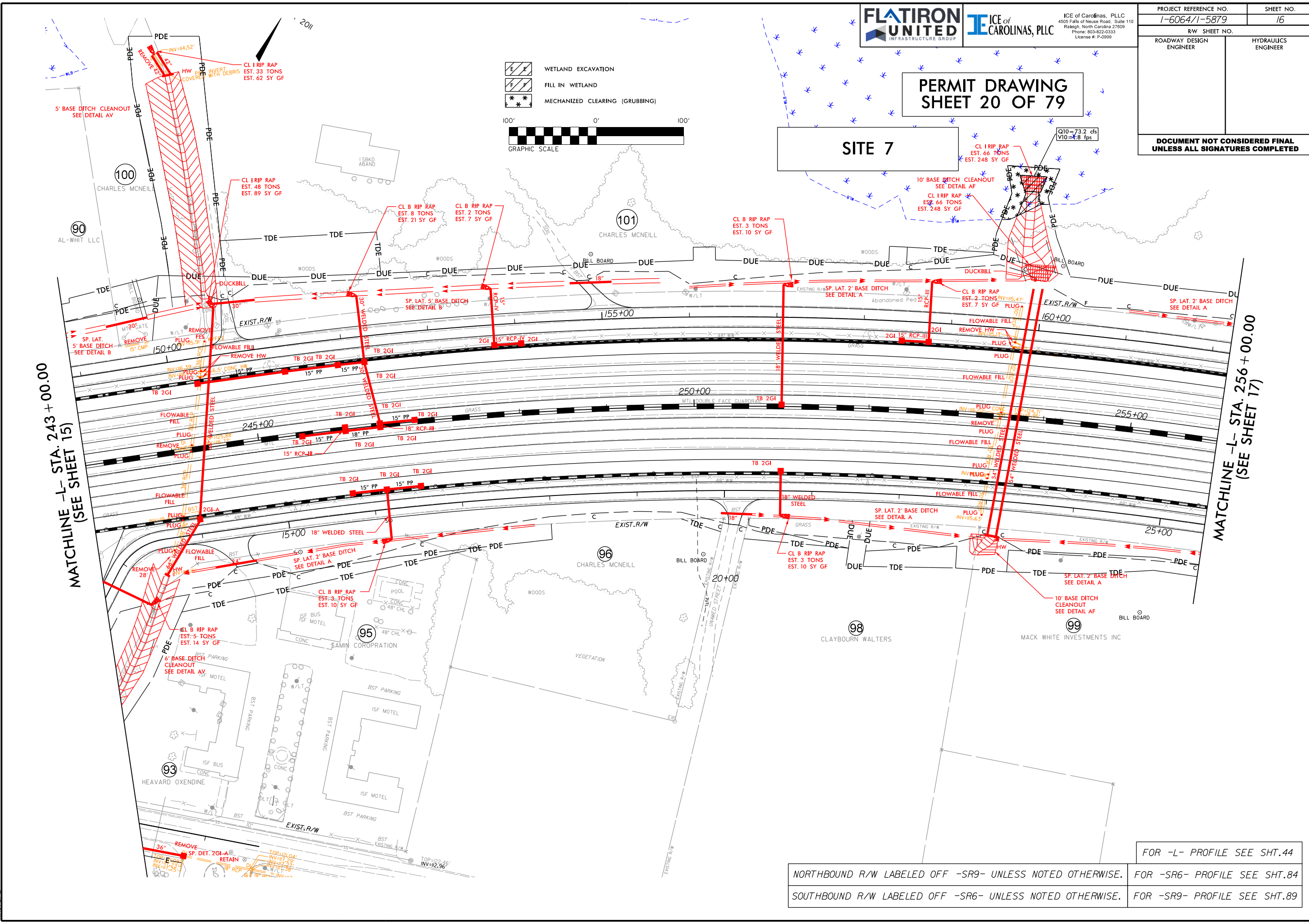
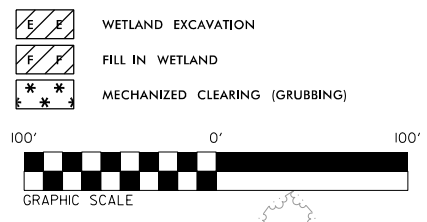
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84	FOR -SR9- PROFILE SEE SHT.89

**PERMIT DRAWING
 SHEET 20 OF 79**

SITE 7

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



MATCHLINE -L- STA. 243 + 00.00
 (SEE SHET 15)

MATCHLINE -L- STA. 256 + 00.00
 (SEE SHEET 17)

8/17/99
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	FOR -SR9- PROFILE SEE SHT.89

8/17/99



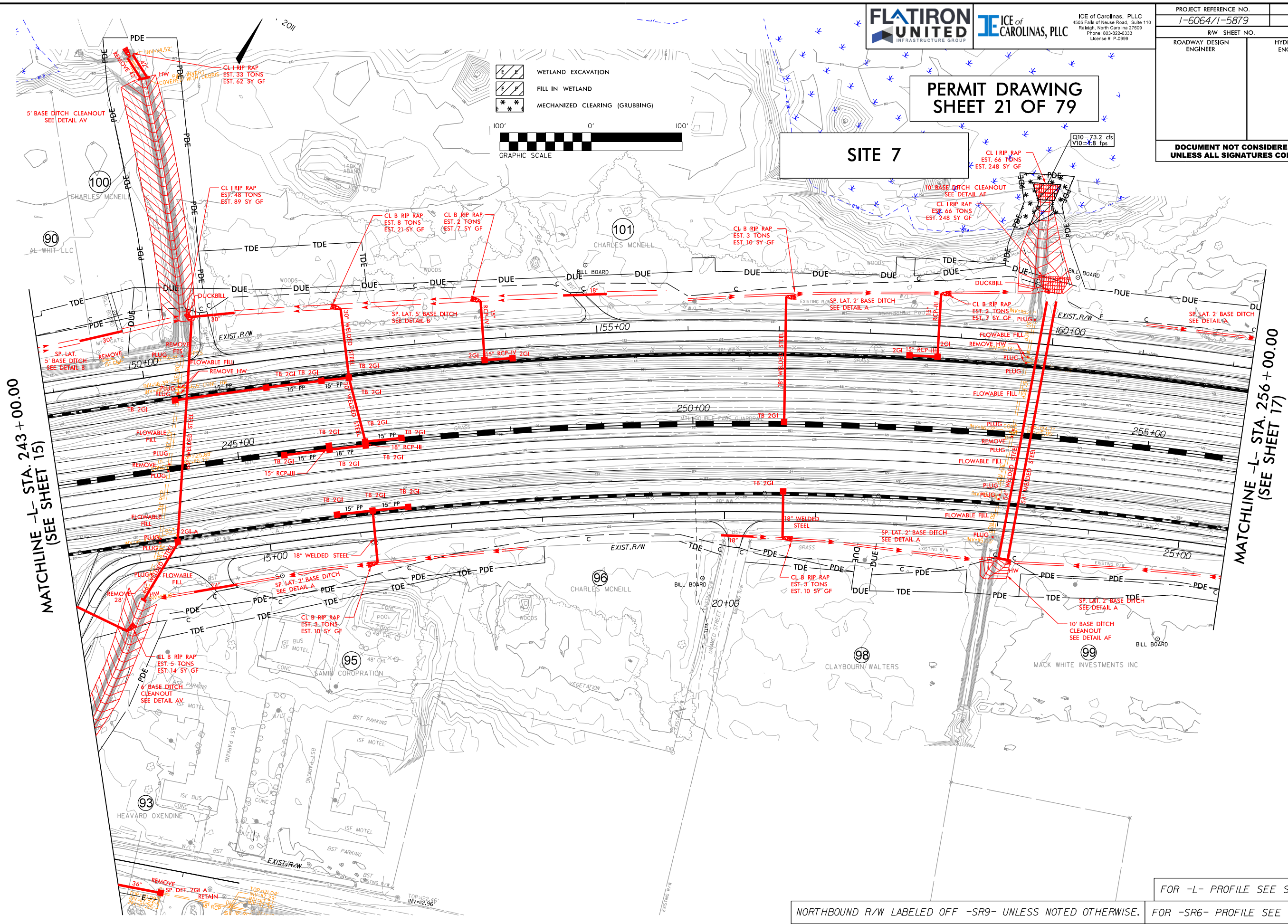
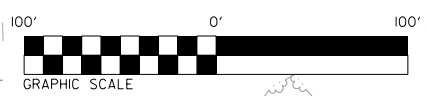
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 16
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 21 OF 79

SITE 7

- WETLAND EXCAVATION
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)



MATCHLINE -L- STA. 243 + 00.00
(SEE SHEET 15)

MATCHLINE -L- STA. 256 + 00.00
(SEE SHEET 17)

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SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84
	FOR -SR9- PROFILE SEE SHT.89

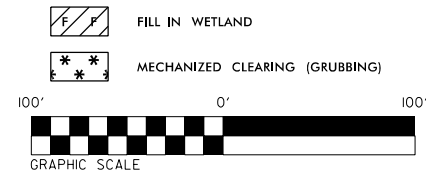
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Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 17
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

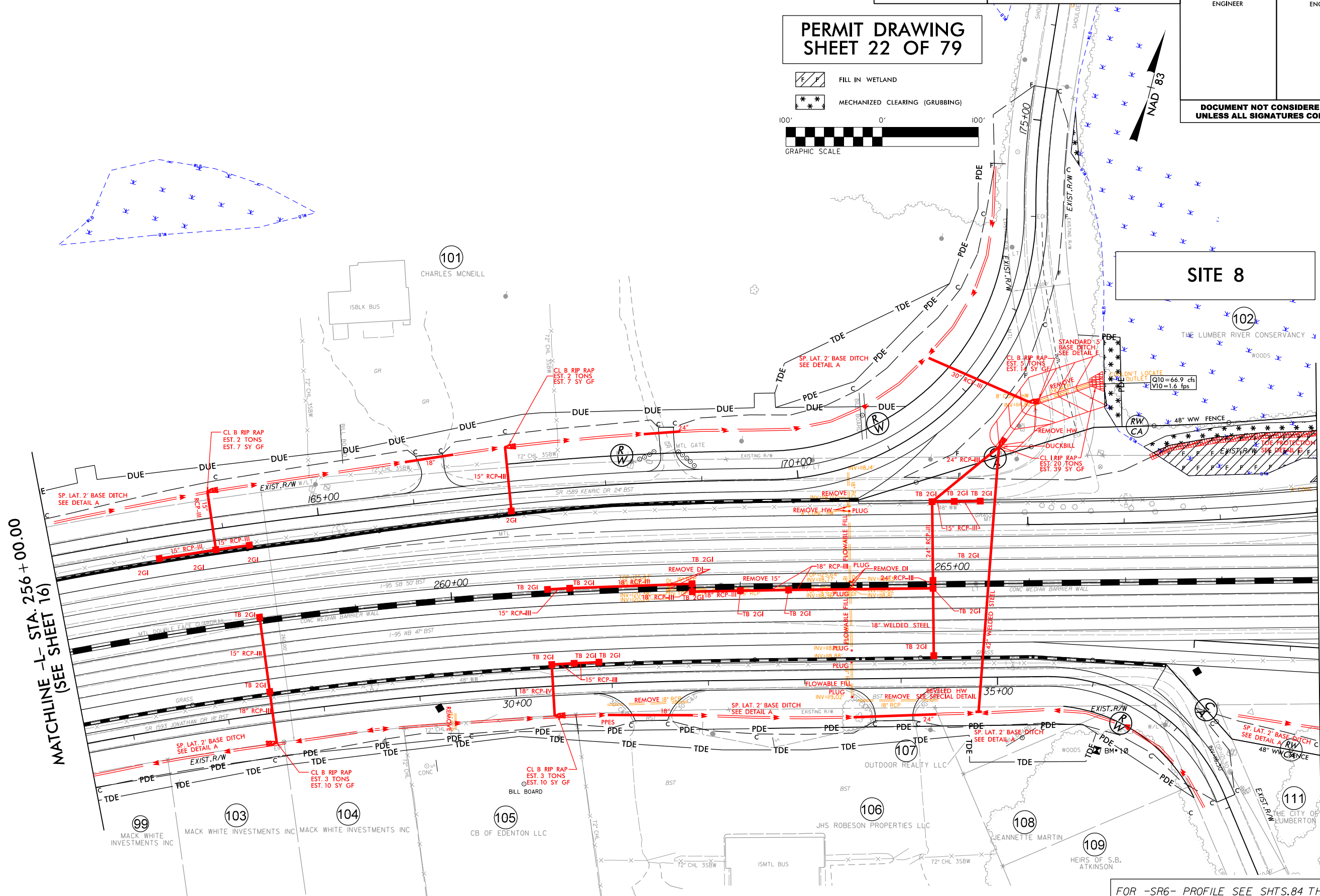
PERMIT DRAWING SHEET 22 OF 79



SITE 8

MATCHLINE -L- STA. 256+00.00
(SEE SHEET 16)

MATCHLINE -L- STA. 269+00.00
(SEE SHEET 18)



\$DATE\$ \$TIME\$
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SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

FOR -SR6- PROFILE SEE SHTS.84 THRU 85

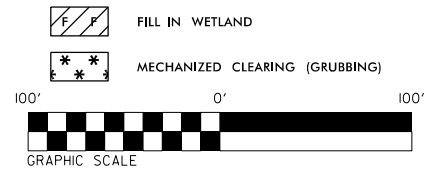
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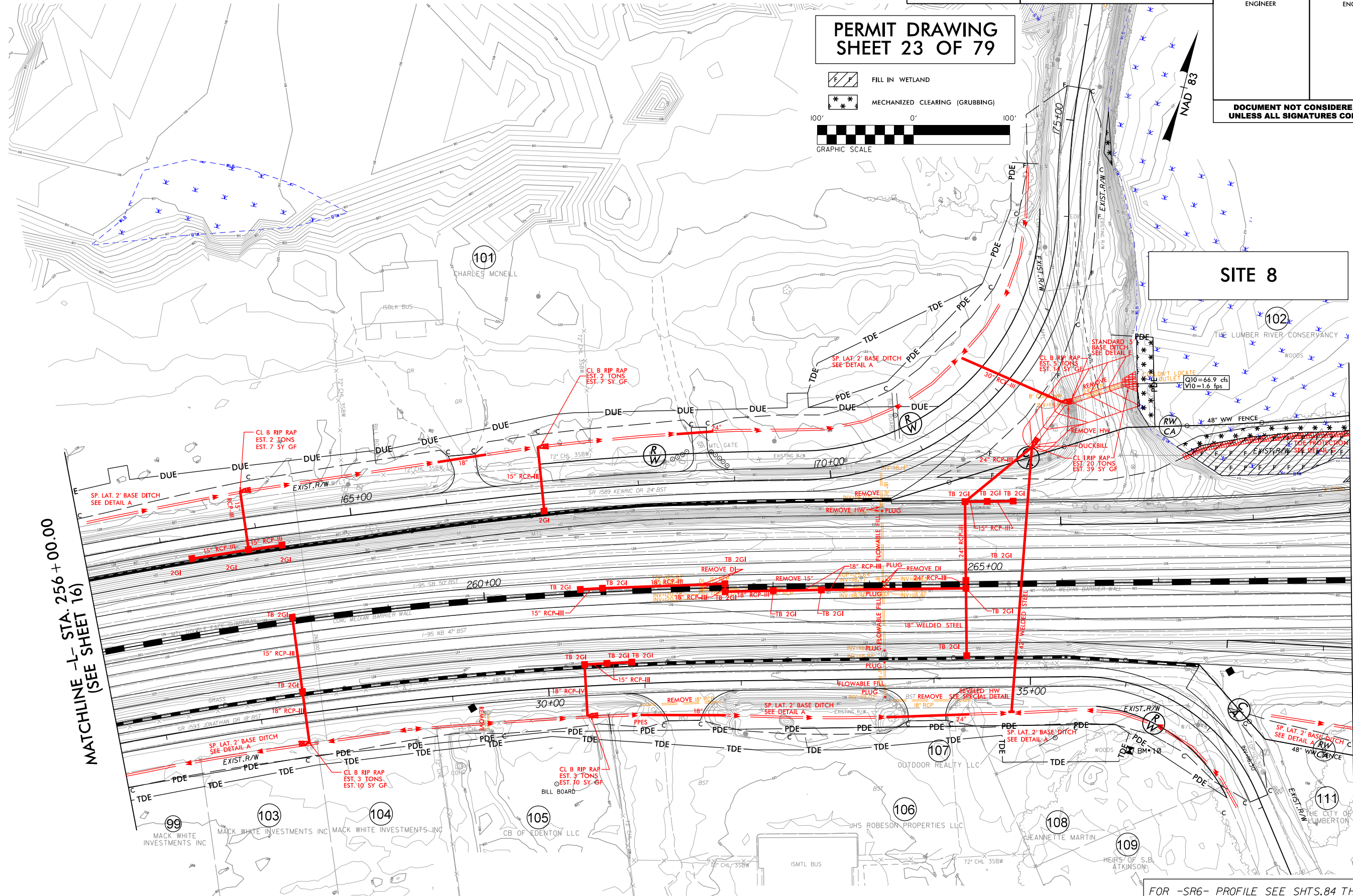
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-9333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 17
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

PERMIT DRAWING SHEET 23 OF 79



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



MATCHLINE -L- STA. 256 + 00.00
(SEE SHEET 16)

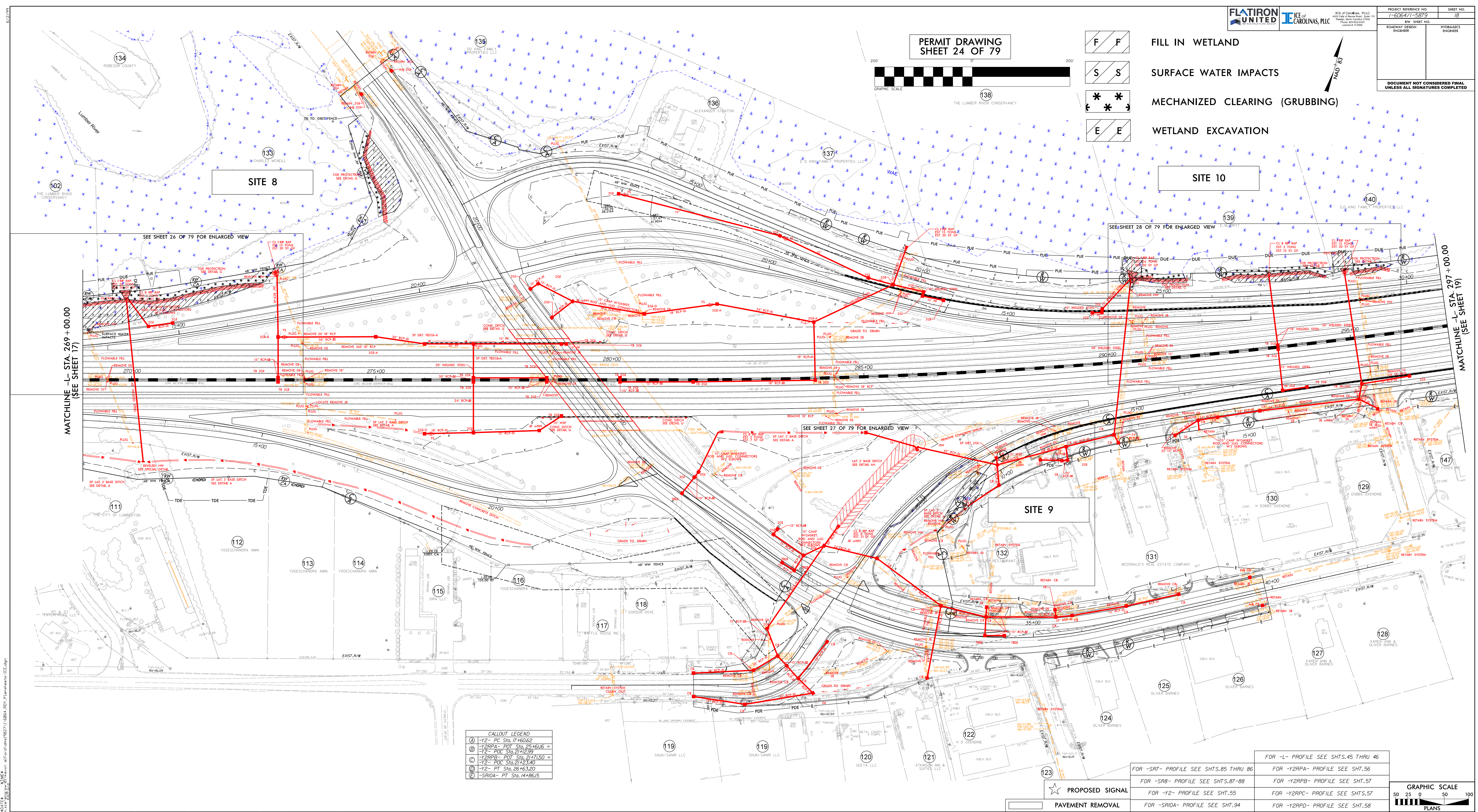
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(SEE SHEET 18)

FOR -SR6- PROFILE SEE SHTS.84 THRU 85

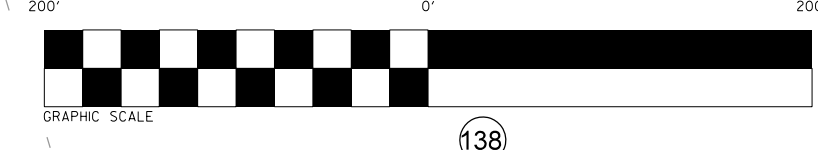
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SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

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KAL/ld

DATE: 01/20/2023
DRAWN BY: J. HARRIS
CHECKED BY: J. HARRIS
PROJECT: 2023-001



PERMIT DRAWING
SHEET 24 OF 79



- F F FILL IN WETLAND
- S S SURFACE WATER IMPACTS
- * * * MECHANIZED CLEARING (GRUBBING)
- E E WETLAND EXCAVATION

PROJECT REFERENCE NO. 7-266471-5879	SHEET NO. 28
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

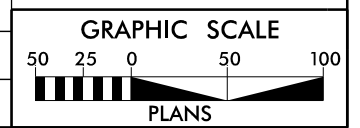
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(SEE SHEET 17)

MATCHLINE -L- STA. 297+00.00
(SEE SHEET 19)

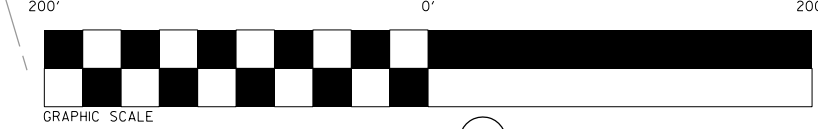
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(A)	-Y2- PC Sta. 17+616.2
(B)	-Y2RPA- POT Sta. 28+261.6
(C)	-Y2- POC Sta. 28+112.9
(D)	-Y2RPA- POT Sta. 29+115.0
(E)	-Y2- POC Sta. 27+233.0
(F)	-Y2- PT Sta. 26+632.0
(G)	-SRQA- PT Sta. 14+865.5

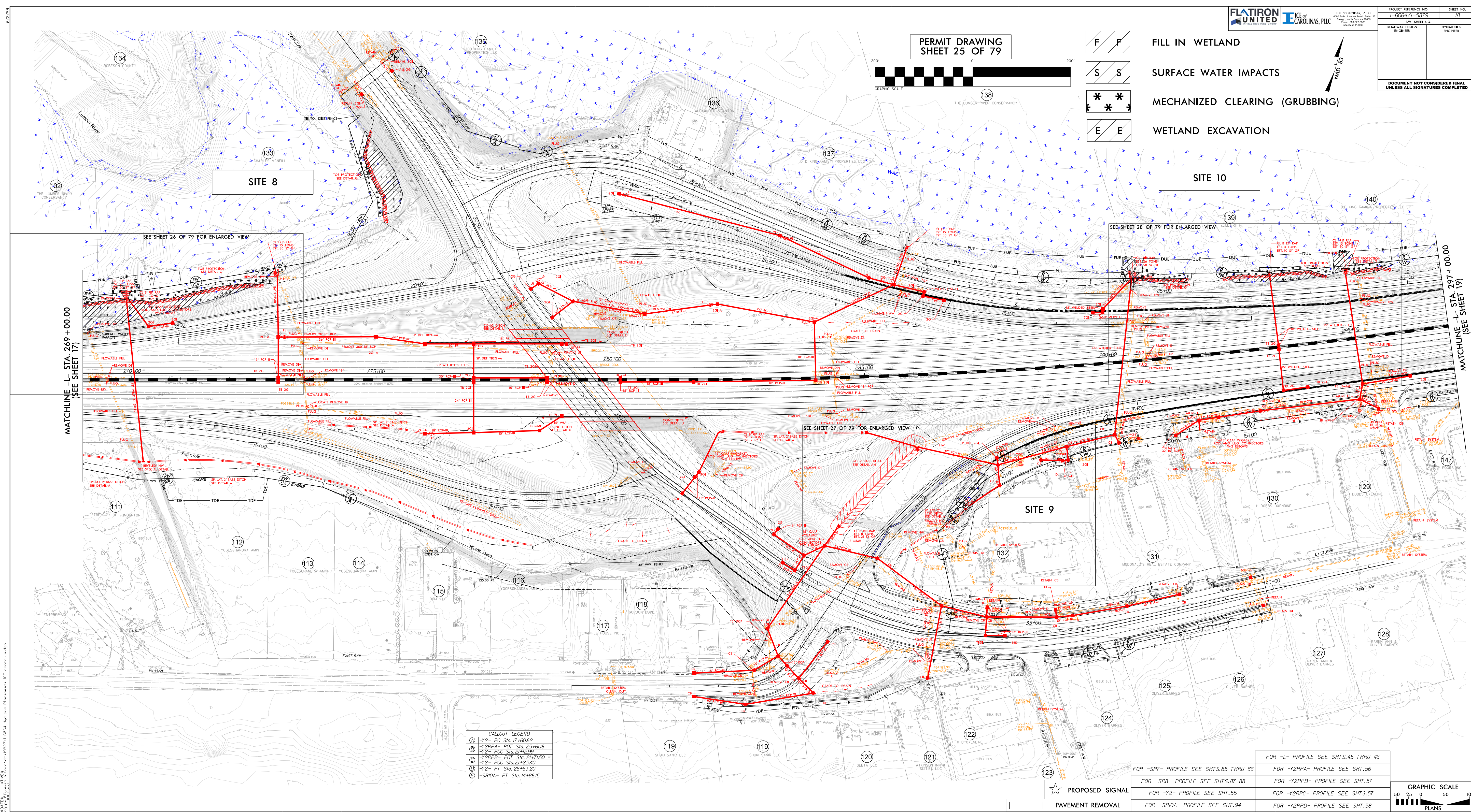
FOR -L- PROFILE SEE SHTS. 45 THRU 46	FOR -Y2RPA- PROFILE SEE SHT. 56
FOR -SR7- PROFILE SEE SHTS. 85 THRU 86	FOR -Y2RPA- PROFILE SEE SHT. 57
FOR -SR8- PROFILE SEE SHTS. 87-88	FOR -Y2RPA- PROFILE SEE SHT. 57
FOR -Y2- PROFILE SEE SHT. 55	FOR -Y2RPA- PROFILE SEE SHT. 57
FOR -SRQA- PROFILE SEE SHT. 94	FOR -Y2RPA- PROFILE SEE SHT. 58



PERMIT DRAWING
SHEET 25 OF 79



- F F FILL IN WETLAND
- S S SURFACE WATER IMPACTS
- * * * MECHANIZED CLEARING (GRUBBING)
- E E WETLAND EXCAVATION



MATCHLINE -L- STA. 269+00.00 (SEE SHEET 17)

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 19)

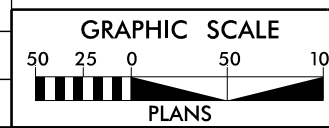
CALLOUT LEGEND

Ⓐ	-Y2- PC Sta. 17+61.62
Ⓑ	-Y2RPA- POT Sta. 28+76.16
Ⓒ	-Y2- POC Sta. 29+12.99
Ⓓ	-Y2RPA- POT Sta. 29+11.50
Ⓔ	-Y2- POC Sta. 27+23.20
Ⓚ	-Y2- PT Sta. 26+16.20
Ⓖ	-SRQA- PT Sta. 14+86.15

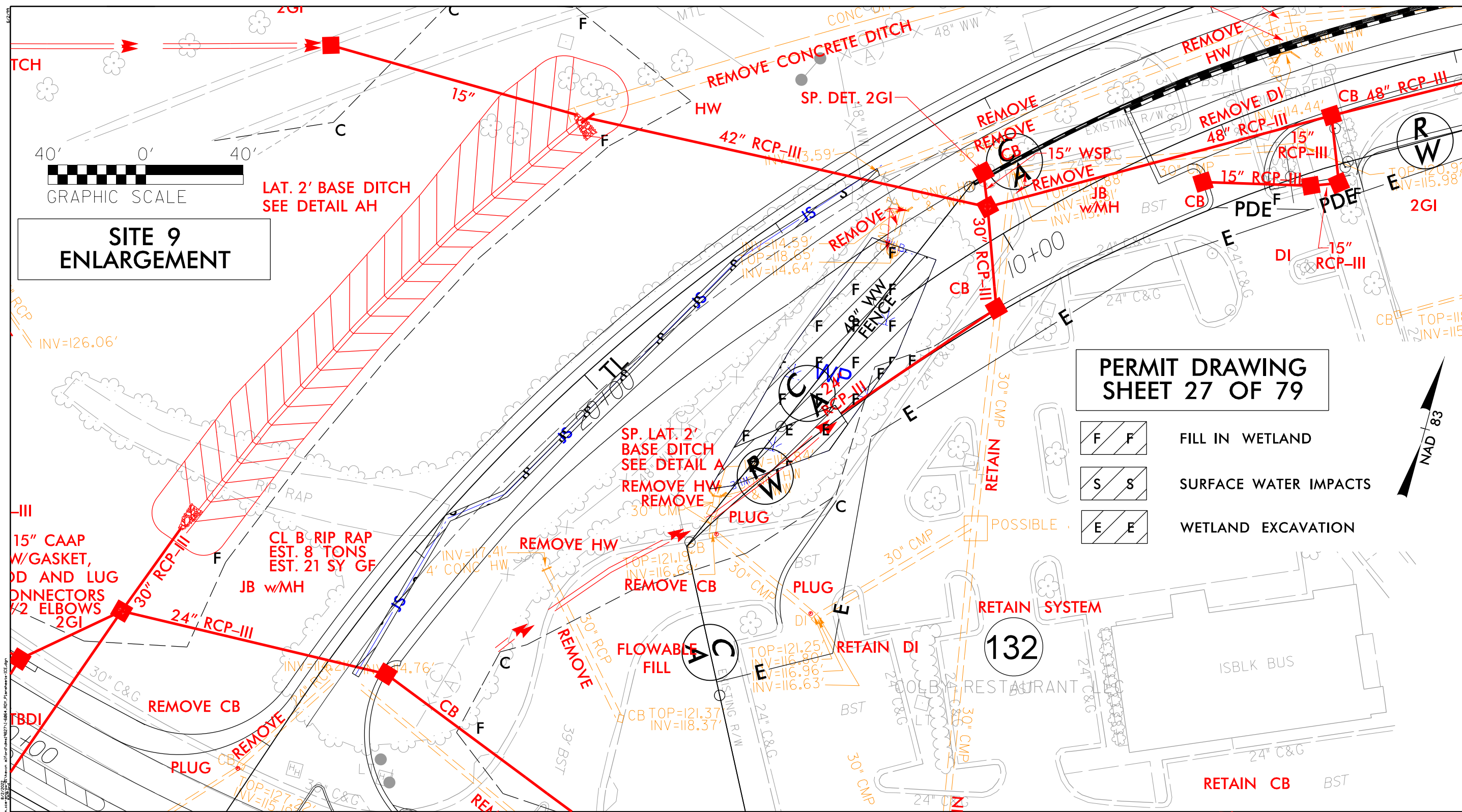
PROPOSED SIGNAL
 PAVEMENT REMOVAL

FOR -SR7- PROFILE SEE SHTS. 85 THRU 86
 FOR -SR8- PROFILE SEE SHTS. 87-88
 FOR -Y2- PROFILE SEE SHT. 55
 FOR -SRQA- PROFILE SEE SHT. 94

FOR -L- PROFILE SEE SHTS. 45 THRU 46
 FOR -Y2RPA- PROFILE SEE SHT. 56
 FOR -Y2RPA- PROFILE SEE SHT. 57
 FOR -Y2RPA- PROFILE SEE SHTS. 57

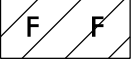




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 PLOTTER: HP DesignJet T1200



**SITE 9
ENLARGEMENT**

**PERMIT DRAWING
SHEET 27 OF 79**

-  F F FILL IN WETLAND
-  S S SURFACE WATER IMPACTS
-  E E WETLAND EXCAVATION

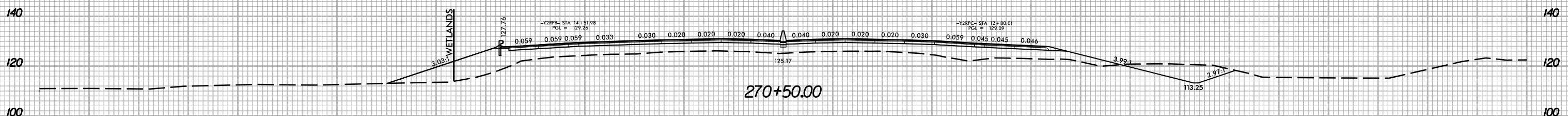
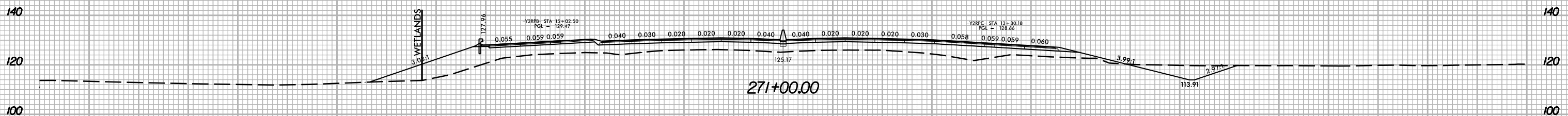
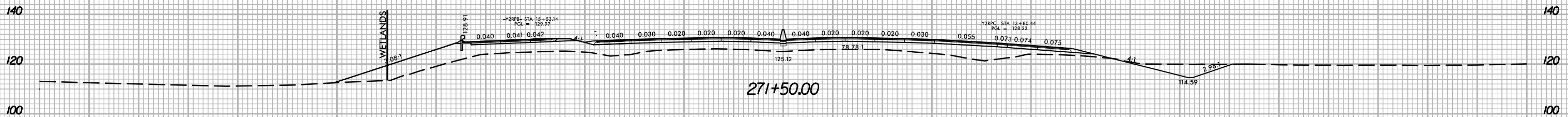
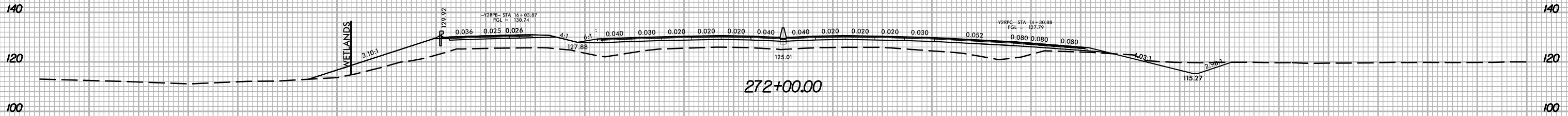
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SITE 8

PERMIT DRAWING SHEET 29 OF 79

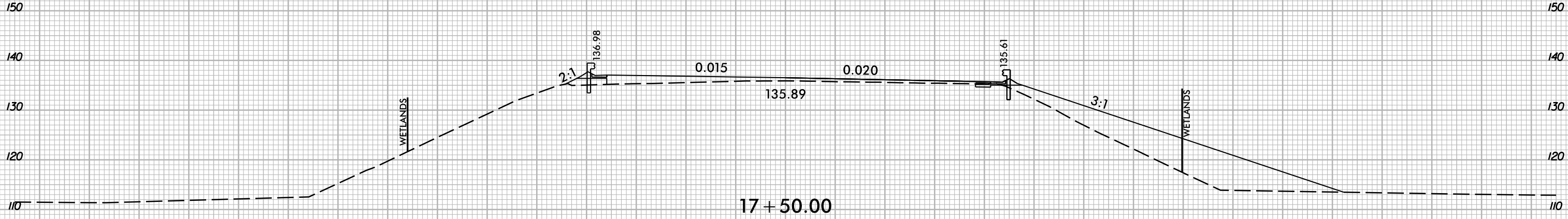
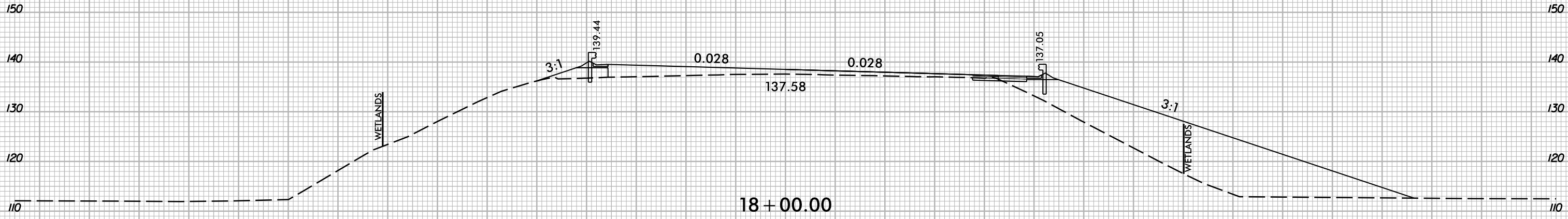
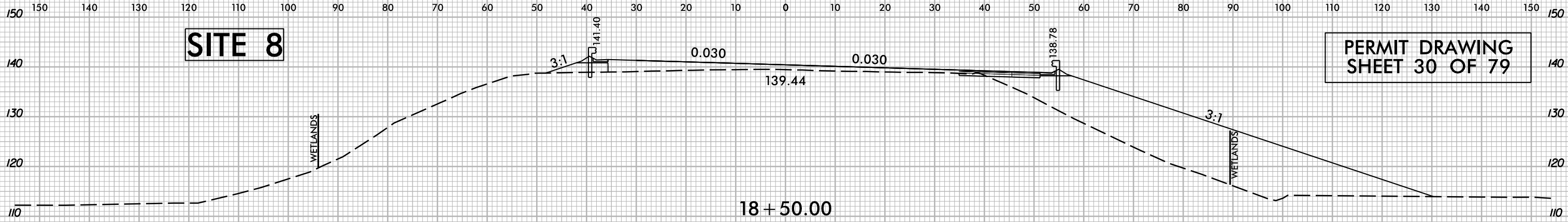


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6/23/16

SITE 8

**PERMIT DRAWING
SHEET 30 OF 79**



-Y2-

8/2/2022
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6/23/16

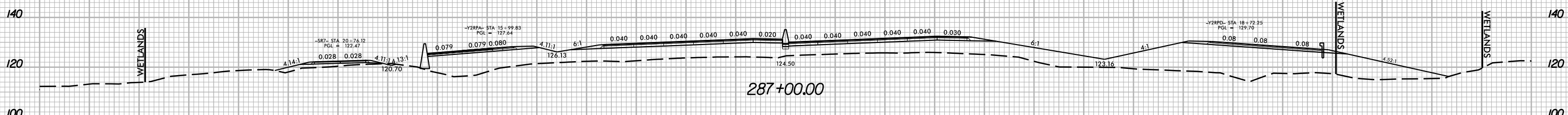
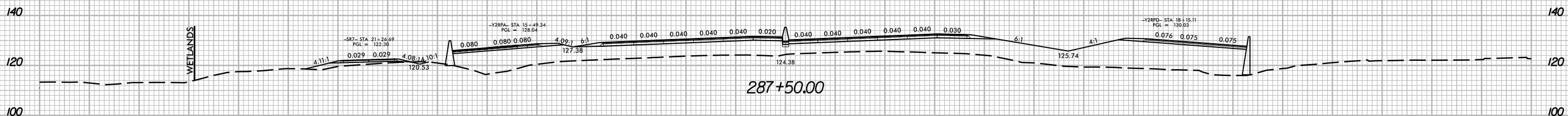
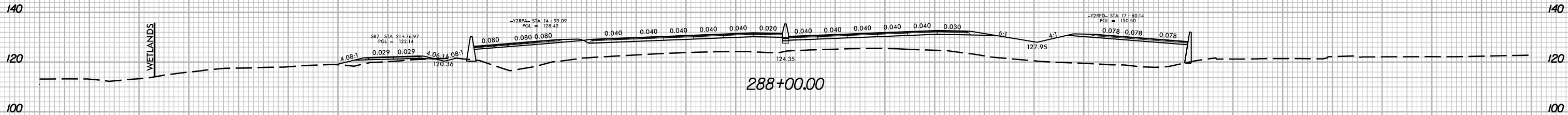
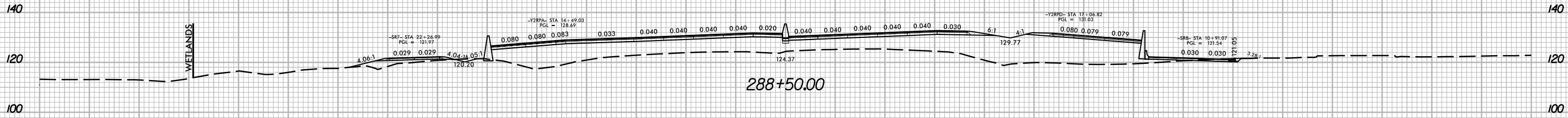


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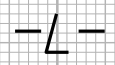
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SITE 9

PERMIT DRAWING SHEET 31 OF 79



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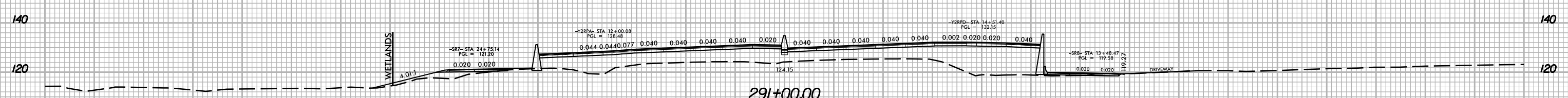
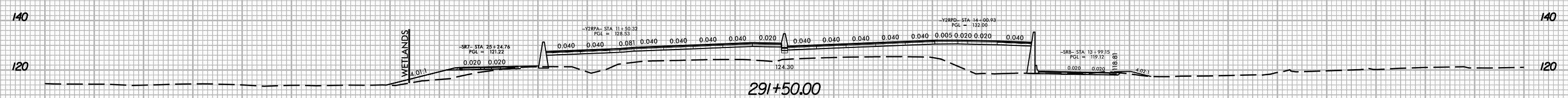
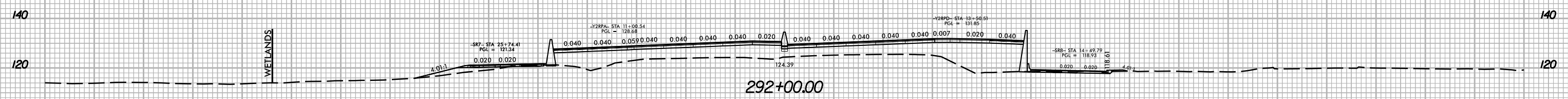
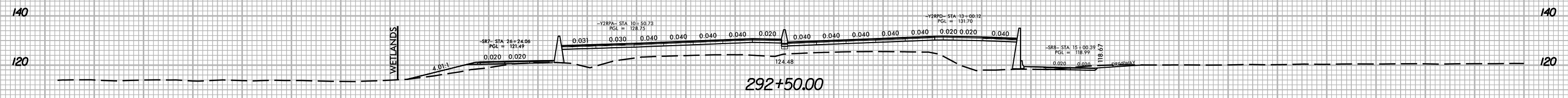


6/23/16

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

SITE 10

PERMIT DRAWING SHEET 32 OF 79



8/2/2022
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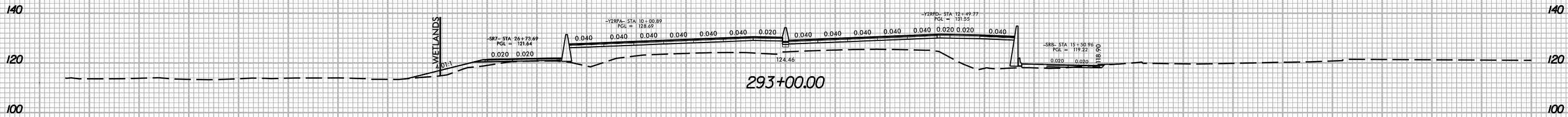
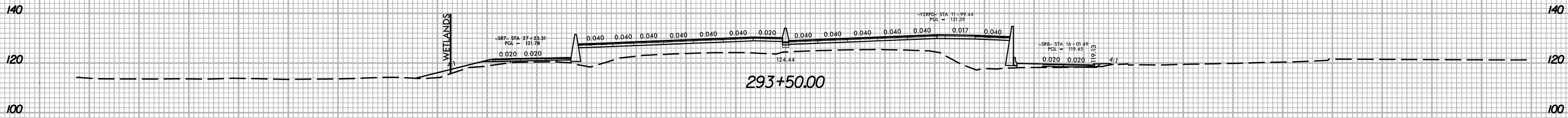
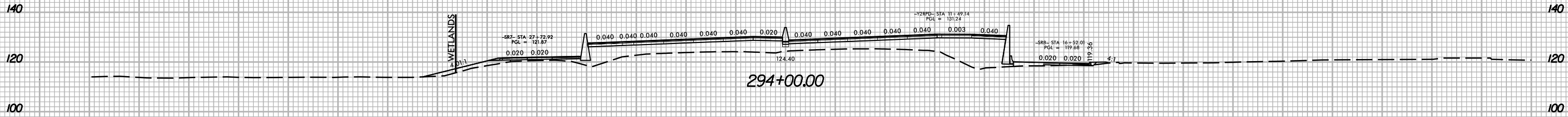
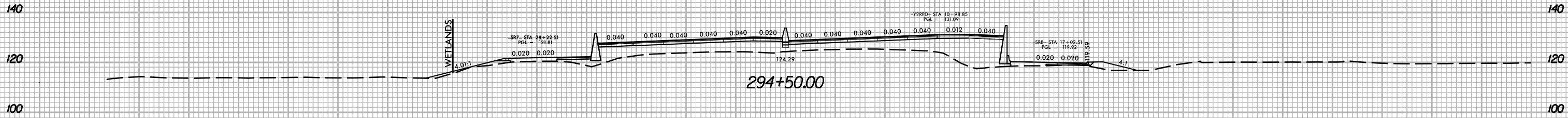
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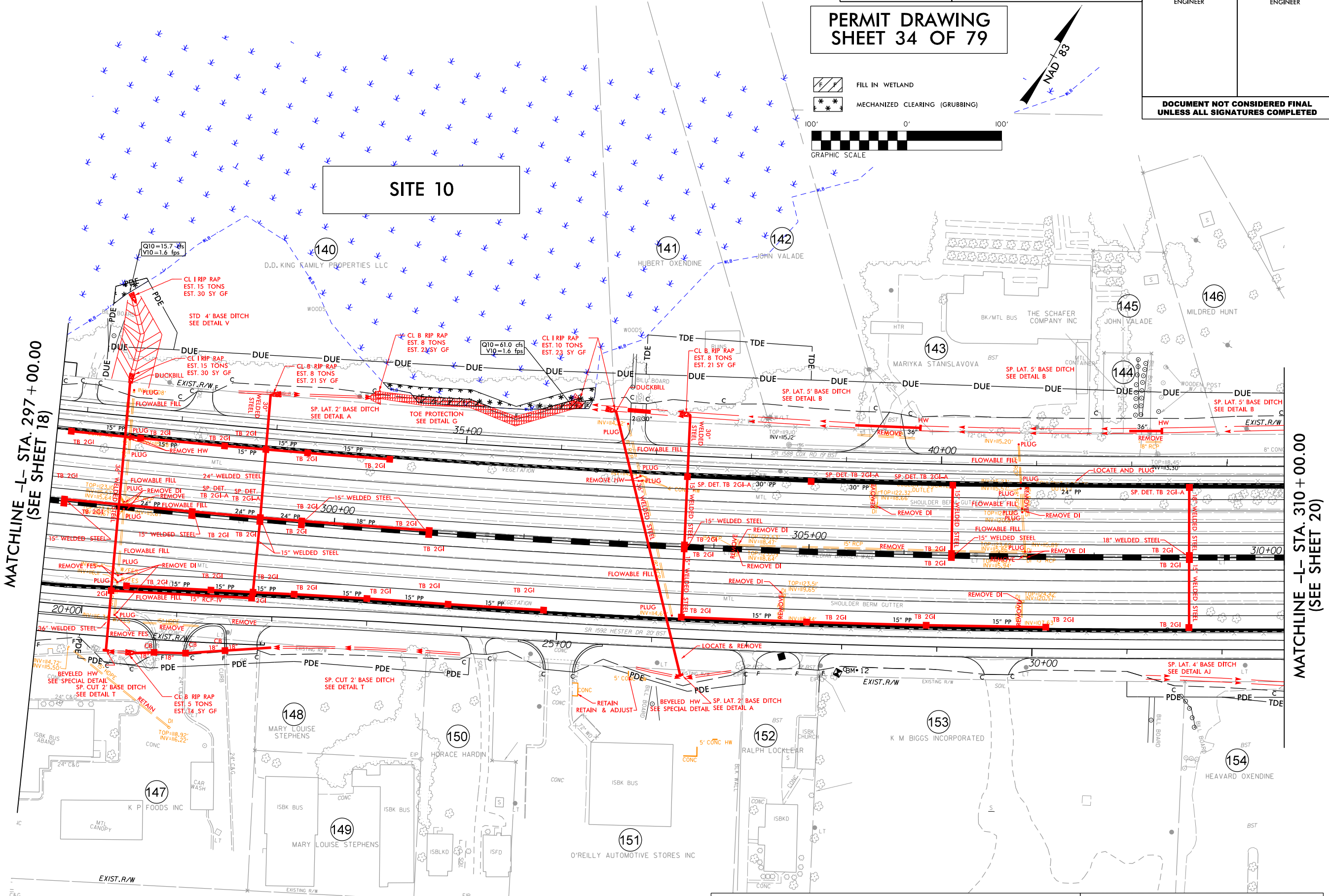
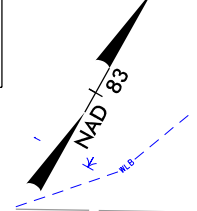
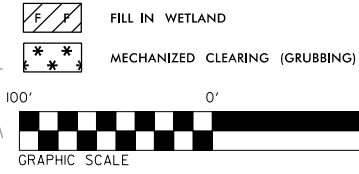
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PERMIT DRAWING SHEET 33 OF 79



PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 34 OF 79



MATCHLINE -L- STA. 297 + 00.00
(SEE SHEET 18)

MATCHLINE -L- STA. 310 + 00.00
(SEE SHEET 20)

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE. FOR -SR8- PROFILE SEE SHTS.87 THRU 88

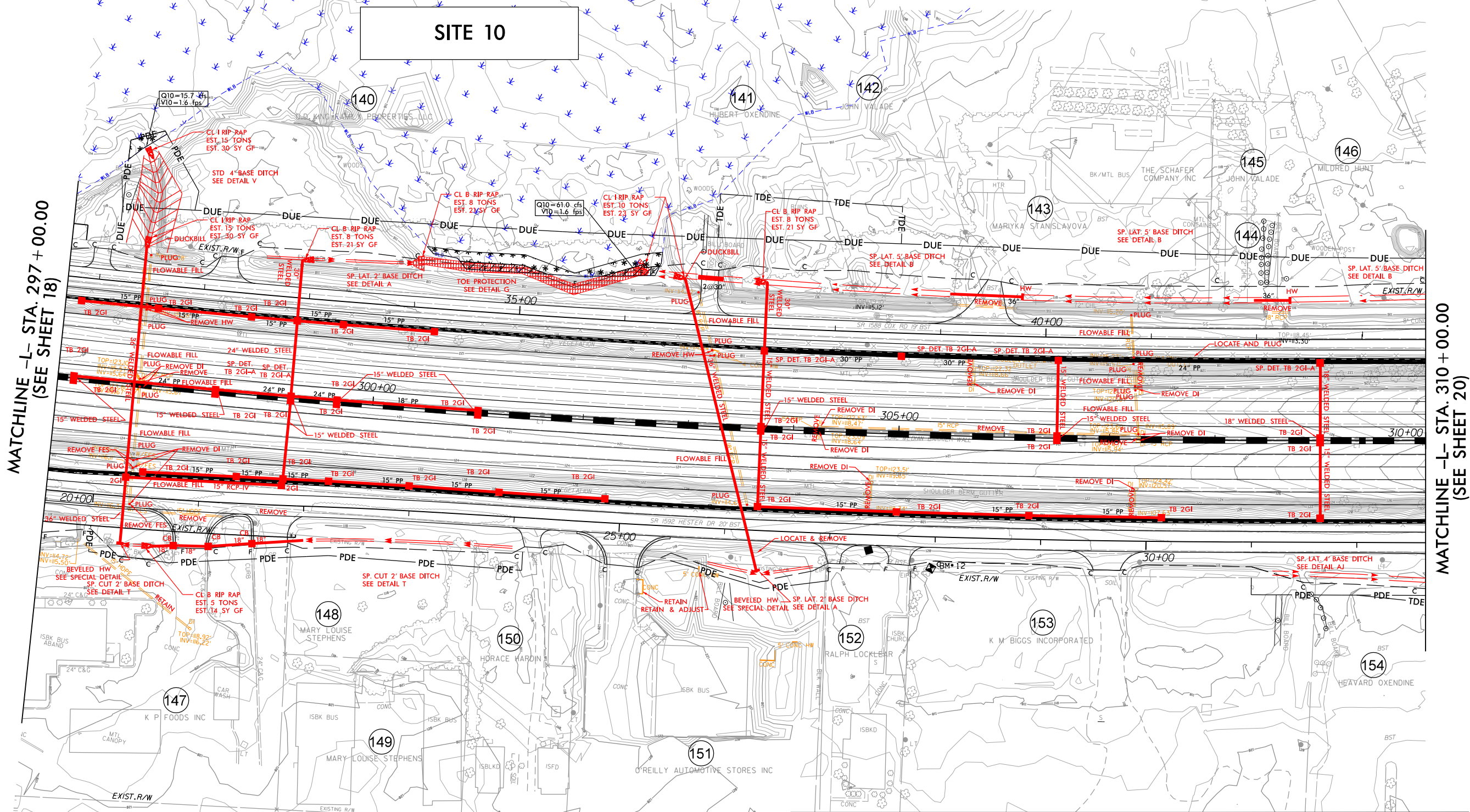
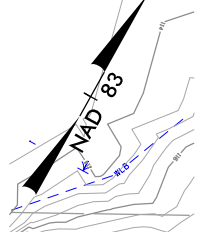
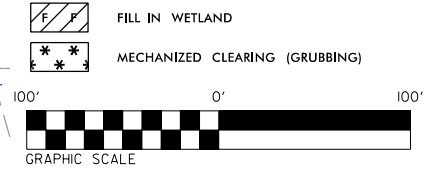
SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE. FOR -L- PROFILE SEE SHT.46 FOR -SR7- PROFILE SEE SHT.86

DATE: 11/15/2017 10:58:11 AM
DRAWN BY: K. Kingdir
CHECKED BY: K. Kingdir
PROJECT NO: 1-6064-1-5879
SHEET NO: 19
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

**PERMIT DRAWING
SHEET 35 OF 79**



MATCHLINE -L- STA. 297+00.00
(SEE SHEET 18)

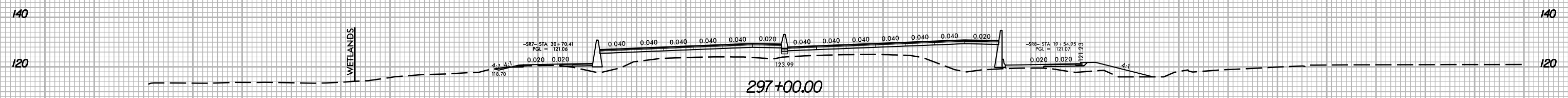
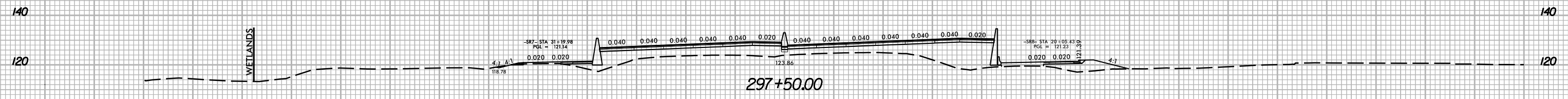
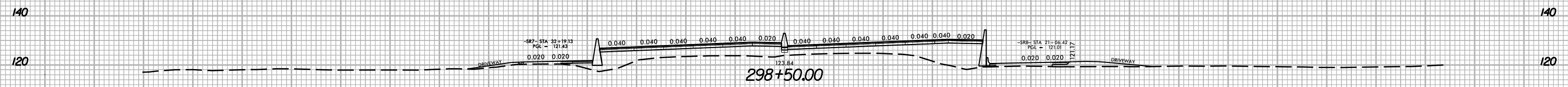
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(SEE SHEET 20)

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE. FOR -SR8- PROFILE SEE SHTS.87 THRU 88
SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE. FOR -L- PROFILE SEE SHT.46 FOR -SR7- PROFILE SEE SHT.86

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SITE 10

**PERMIT DRAWING
SHEET 36 OF 79**



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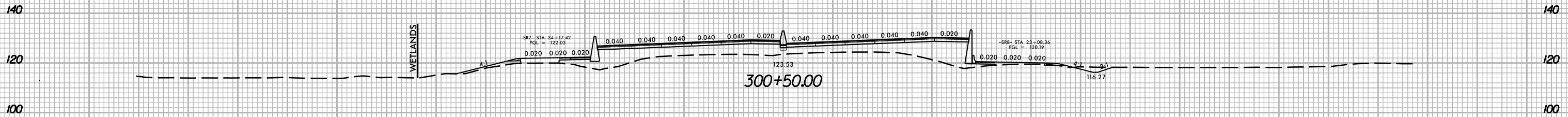
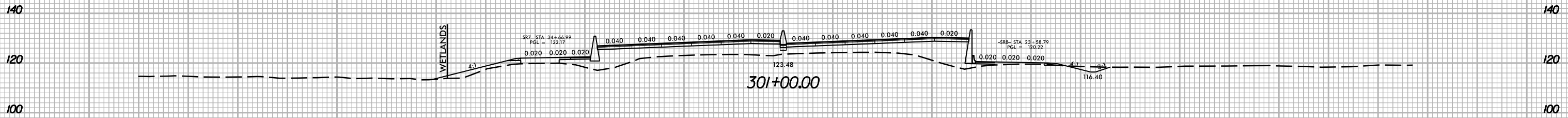
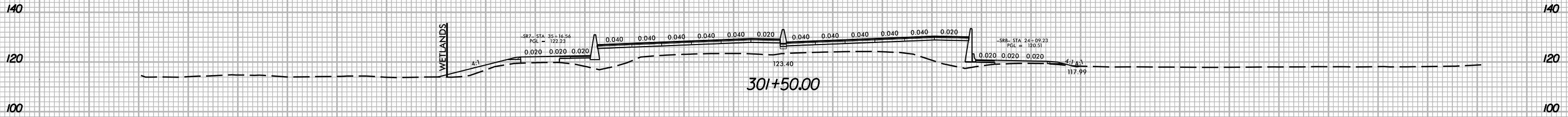
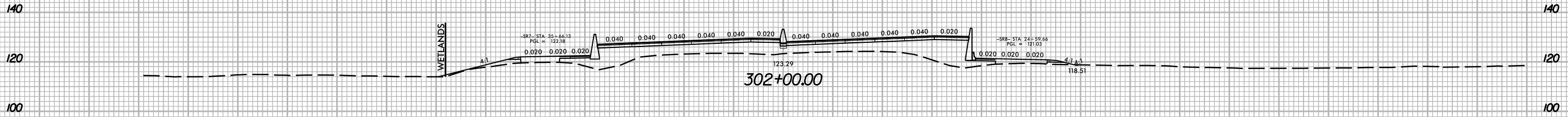
PROJ. REFERENCE NO.
I-6064/1-5879

SHEET NO.
X-107

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SITE 10

PERMIT DRAWING
SHEET 37 OF 79



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USER:KATFOR

8/17/99

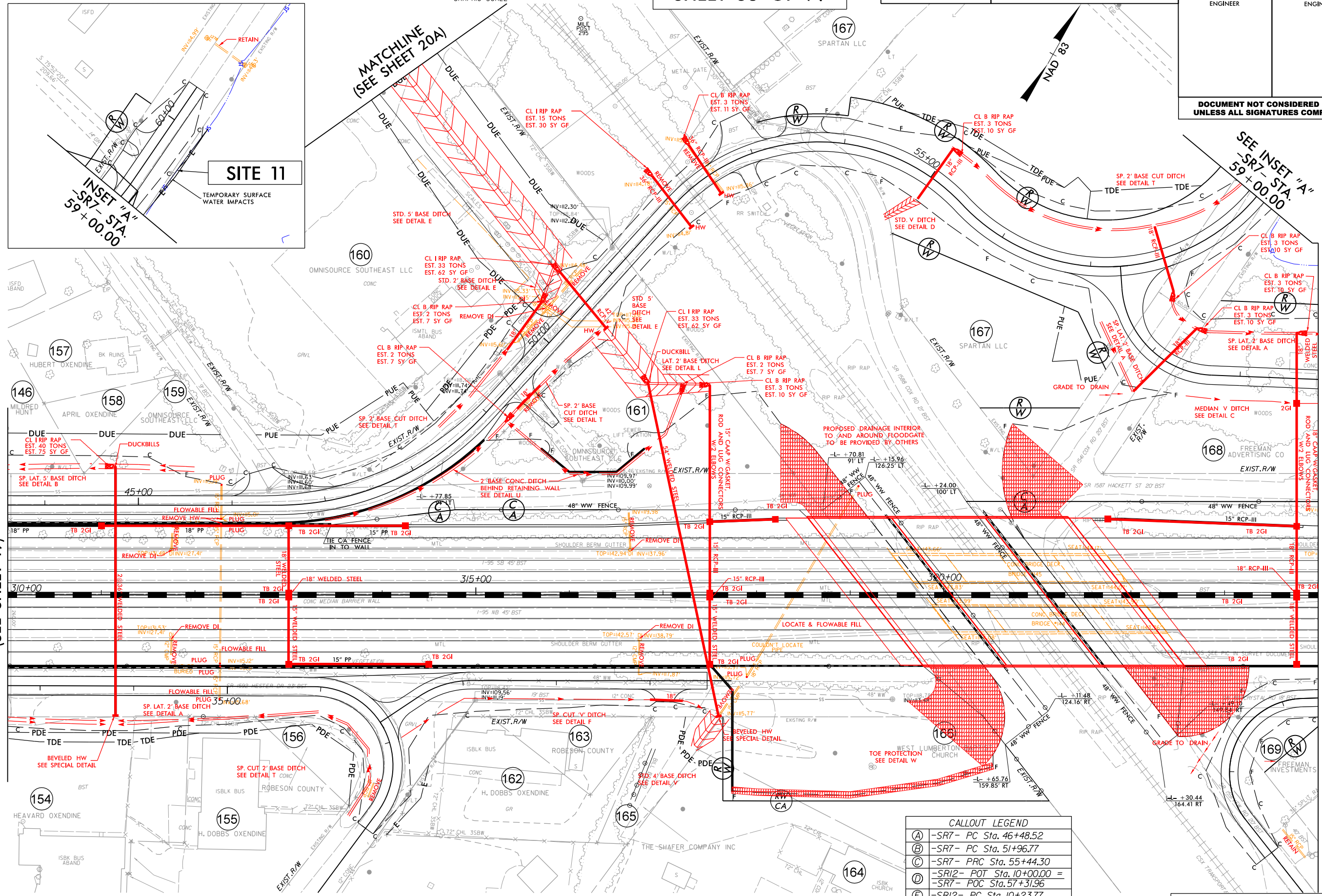
PERMIT DRAWING SHEET 38 OF 79



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License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 20
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



MATCHLINE -L- STA. 310 + 00.00
(SEE SHEET 19)

MATCHLINE -L- STA. 324 + 00.00
(SEE SHEET 21)

 PAVEMENT REMOVAL
 FOR -L- PROFILE SEE SHT.47
 FOR -SR8A- PROFILE SEE SHT.88
 FOR -SR8- PROFILE SEE SHT.88
 FOR -SRI2- PROFILE SEE SHT.95

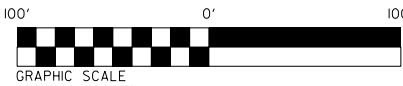
CALLOUT LEGEND	
(A)	-SR7- PC Sta. 46+48.52
(B)	-SR7- PC Sta. 51+96.77
(C)	-SR7- PRC Sta. 55+44.30
(D)	-SRI2- POT Sta. 10+00.00 = -SR7- POC Sta. 57+31.96
(E)	-SRI2- PC Sta. 10+23.77
(F)	-SR8A- POT Sta. 10+00.00 = -SR8- POC Sta. 36+76.30
(G)	-SR8A- POT Sta. 13+86.95

FOR -SRI3- PROFILE SEE SHT.96
 FOR -SR7- PROFILE SEE SHTS.86 THRU 87

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8.17/99

TEMPORARY SURFACE WATER IMPACTS



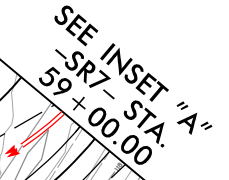
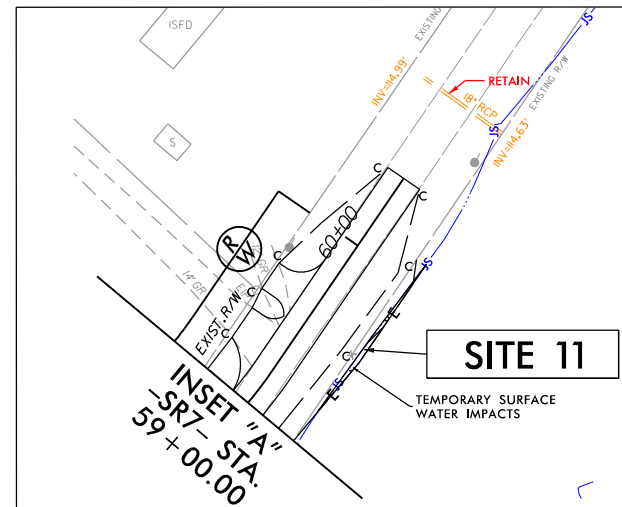
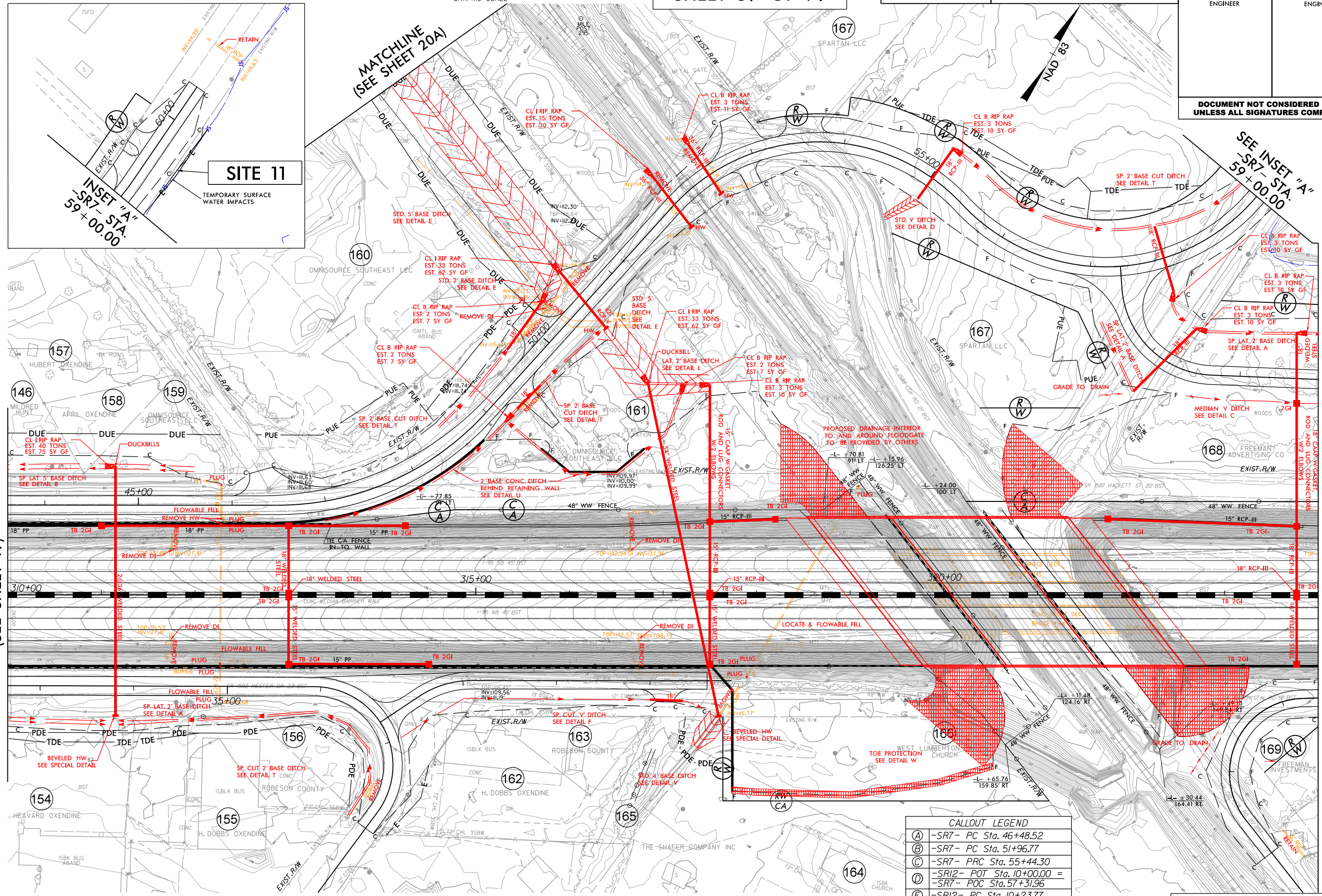
PERMIT DRAWING SHEET 39 OF 79



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License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 20
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



MATCHLINE -L- STA. 310 + 00.00 (SEE SHEET 19)

MATCHLINE -L- STA. 324 + 00.00 (SEE SHEET 21)

CALLOUT LEGEND	
(A)	-SR7- PC Sta. 46+48.52
(B)	-SR7- PC Sta. 51+96.77
(C)	-SR7- PRC Sta. 55+44.30
(D)	-SR12- POT Sta. 10+00.00 = -SR7- POC Sta. 57+31.96
(E)	-SR12- PC Sta. 10+23.77
(F)	-SR8A- POT Sta. 10+00.00 = -SR8- POC Sta. 36+76.30
(G)	-SR8A- POT Sta. 13+86.95

 PAVEMENT REMOVAL
 FOR -L- PROFILE SEE SHT.47
 FOR -SR8A- PROFILE SEE SHT.88
 FOR -SR8- PROFILE SEE SHT.88
 FOR -SR12- PROFILE SEE SHT.95

FOR -SR13- PROFILE SEE SHT.96
 FOR -SR7- PROFILE SEE SHTS.86 THRU 87

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


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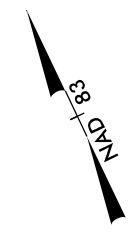
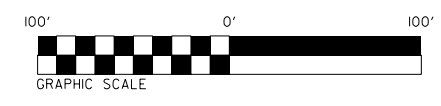


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License #: P-0999

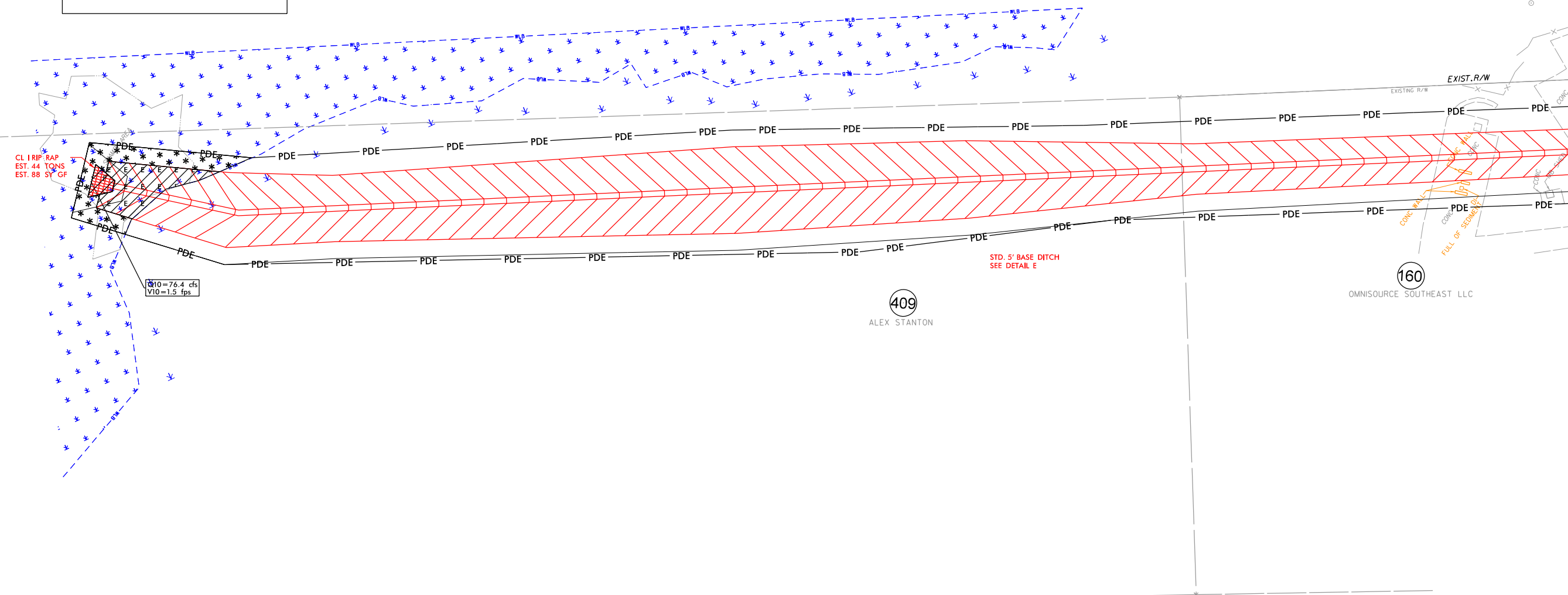
PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 20A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 40 OF 79

-  WETLAND EXCAVATION
-  FILL IN WETLAND
-  MECHANIZED CLEARING (GRUBBING)



SITE 12






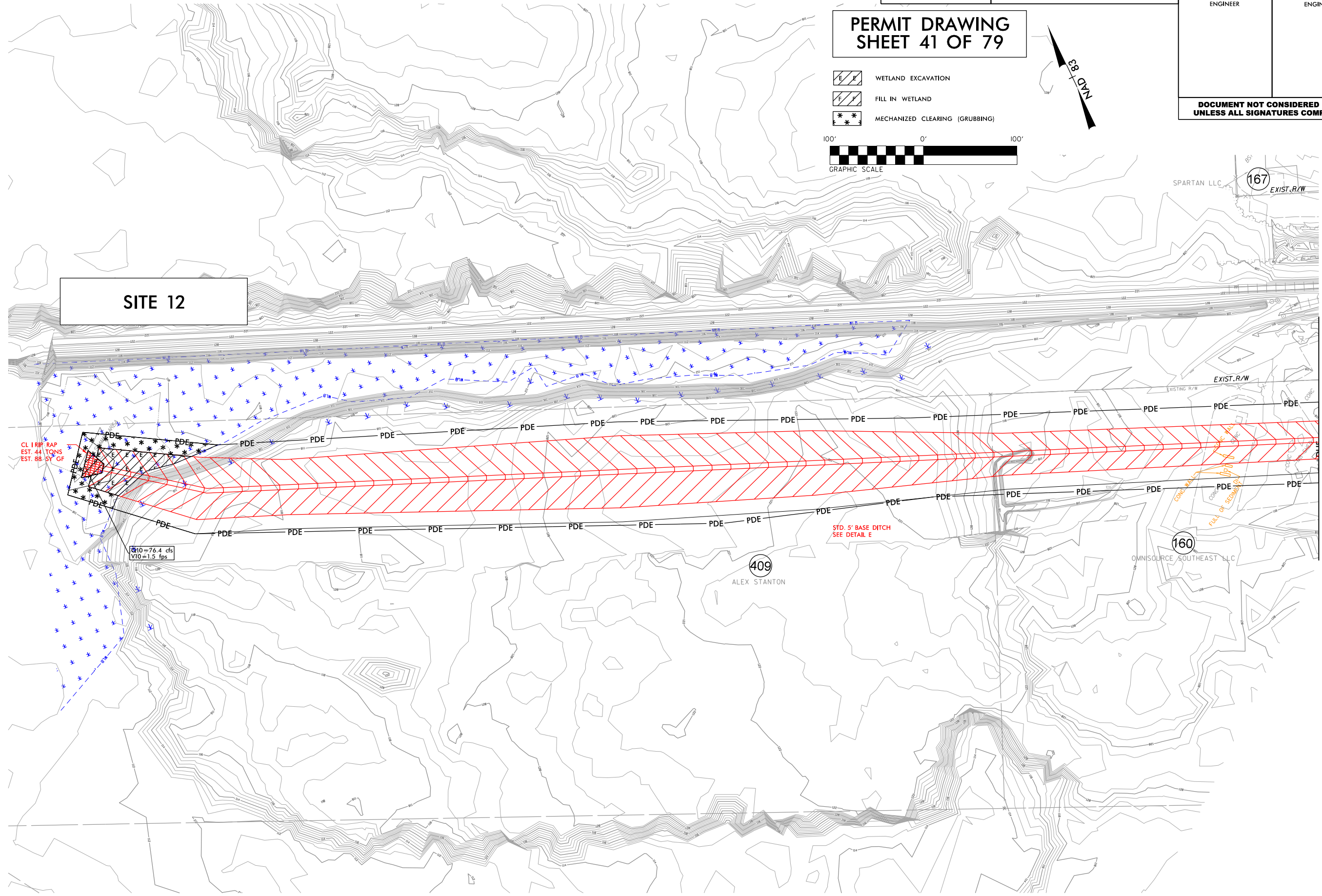
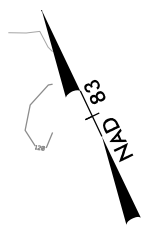
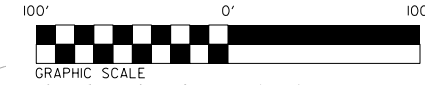
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KAlford

MATCHLINE
(SEE SHEET 20)

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 20A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 41 OF 79

-  WETLAND EXCAVATION
-  FILL IN WETLAND
-  MECHANIZED CLEARING (GRUBBING)



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 K. Alford

MATCHLINE
(SEE SHEET 20)

8/17/99

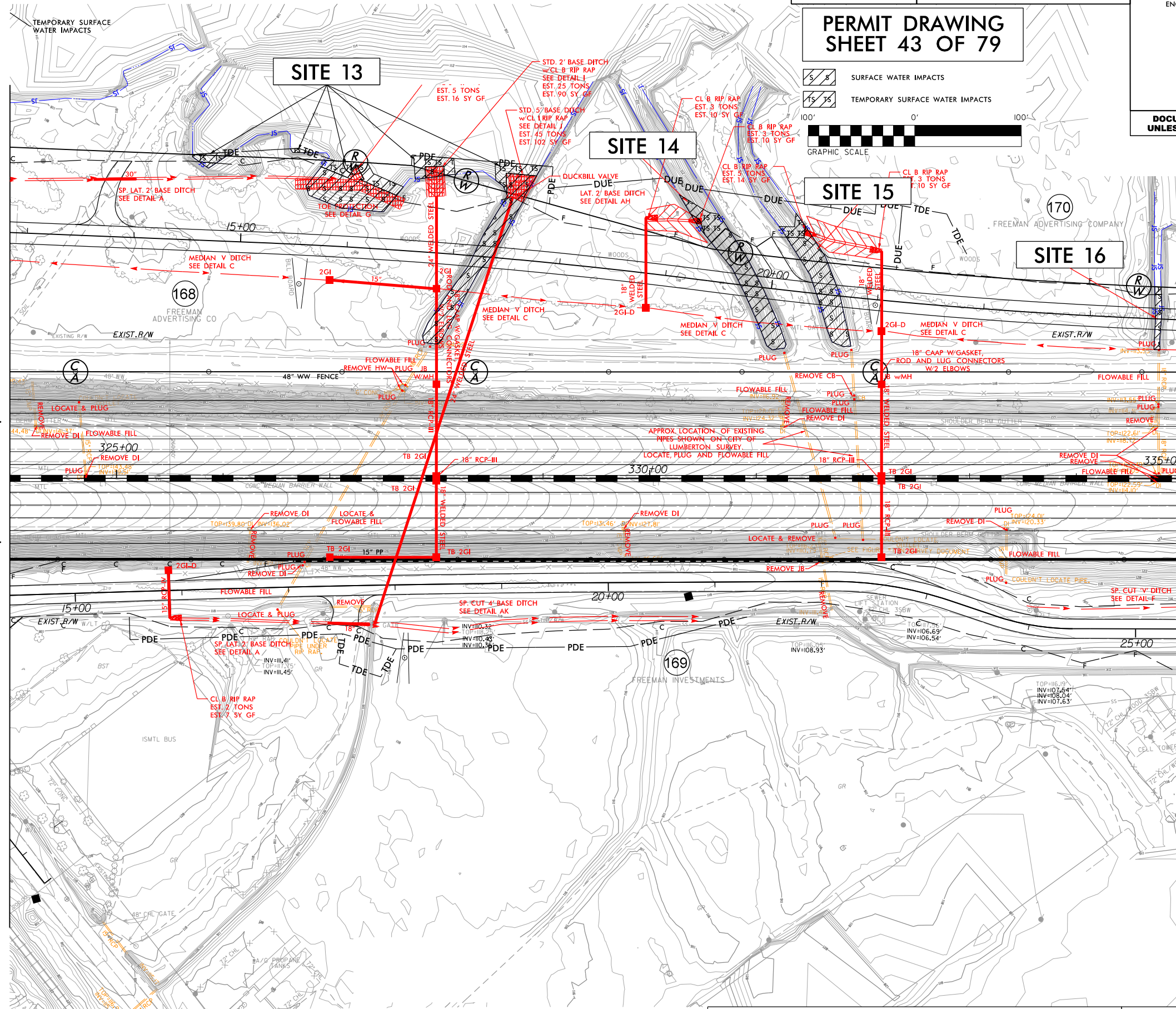


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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 21
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 43 OF 79

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS



MATCHLINE -L- STA. 324 + 00.00
(SEE SHEET 20)

MATCHLINE -L- STA. 335 + 00.00
(SEE SHEET 22)

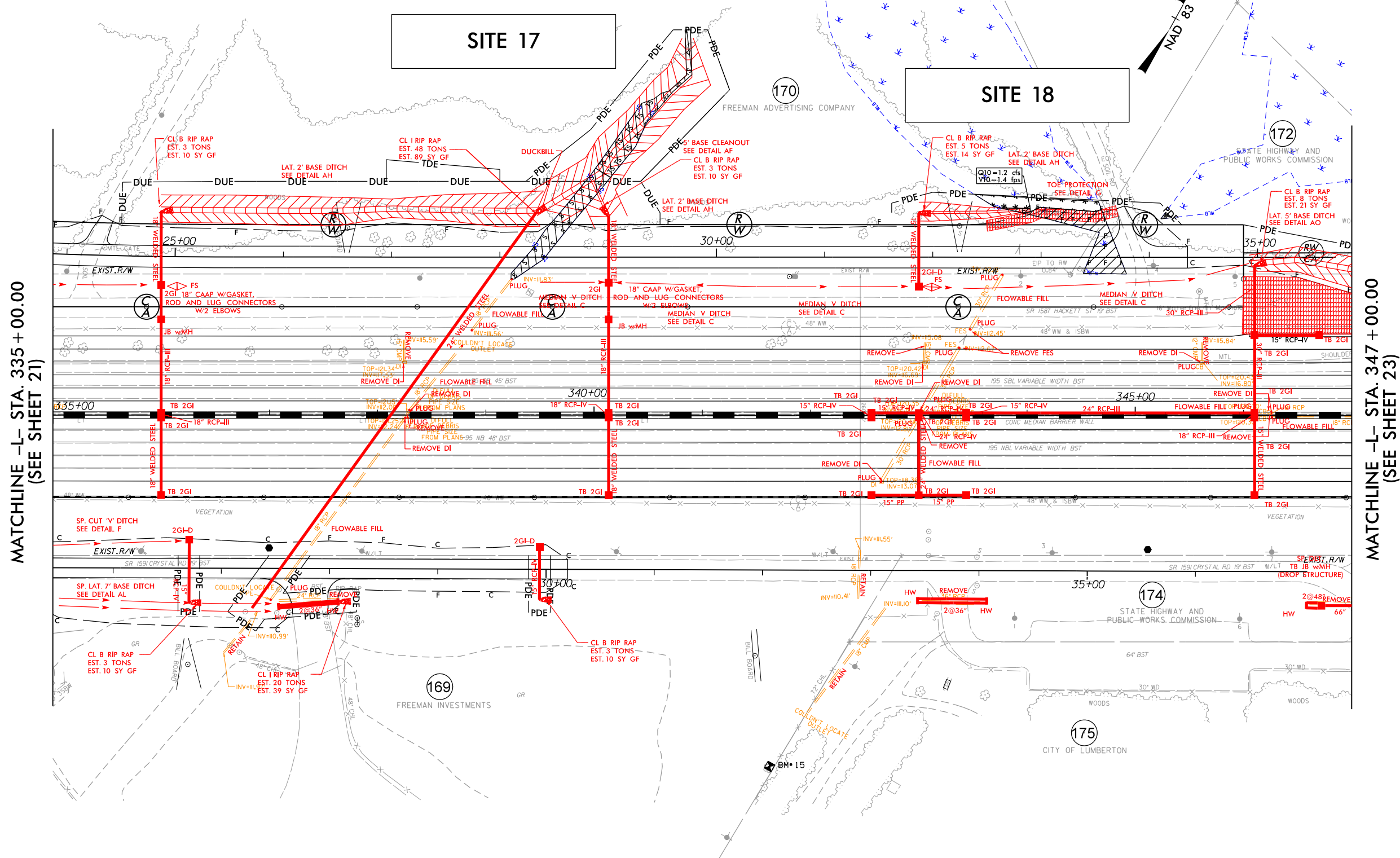
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NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.47
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95
	FOR -SRI3- PROFILE SEE SHT.96

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**PERMIT DRAWING
SHEET 44 OF 79**

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)



MATCHLINE -L- STA. 335 + 00.00
(SEE SHEET 21)

MATCHLINE -L- STA. 347 + 00.00
(SEE SHEET 23)

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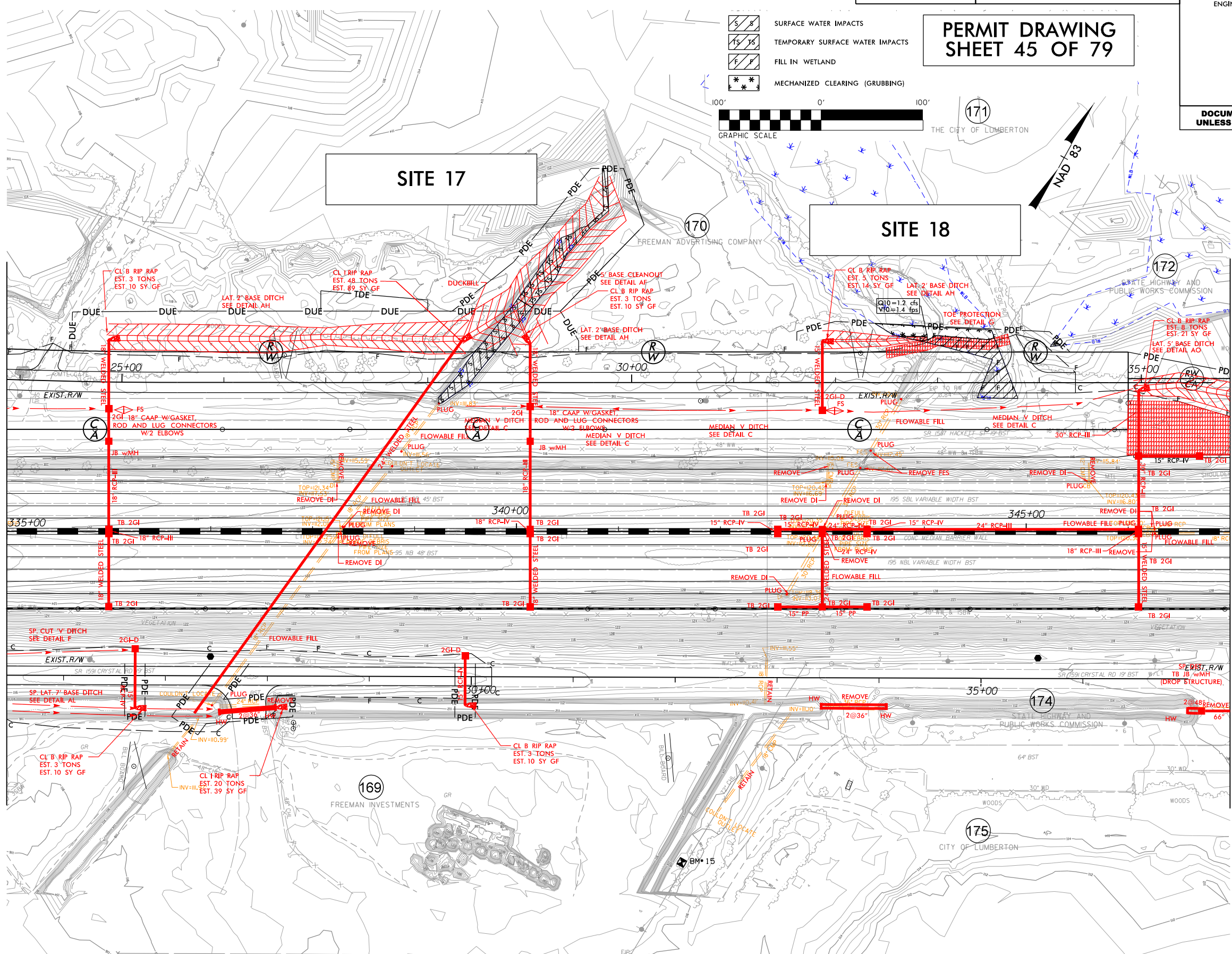
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PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**PERMIT DRAWING
SHEET 45 OF 79**

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)



MATCHLINE -L- STA. 335 + 00.00
(SEE SHEET 21)

MATCHLINE -L- STA. 347 + 00.00
(SEE SHEET 23)

NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE. FOR -L- PROFILE SEE SHT.48

SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE. FOR -SRI2- PROFILE SEE SHT.95 FOR -SRI3- PROFILE SEE SHT.96

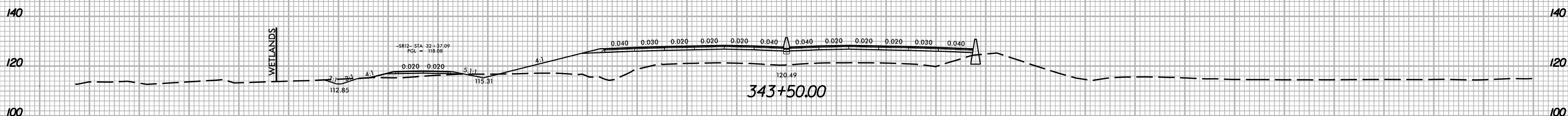
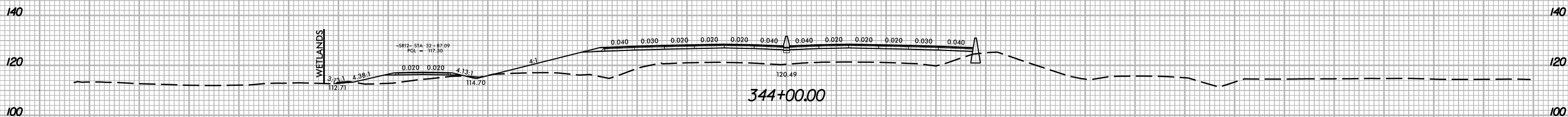
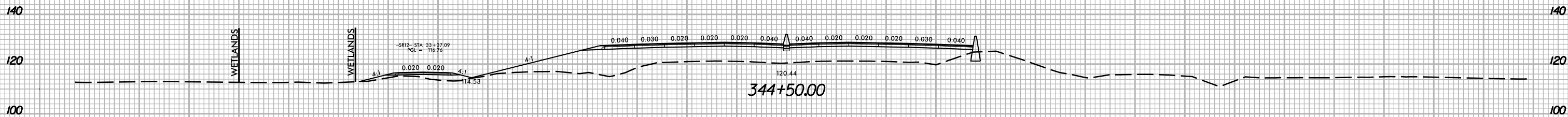
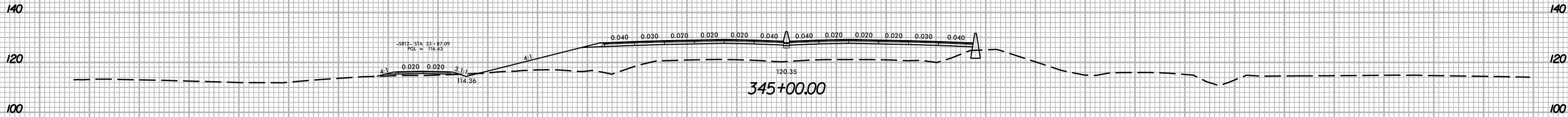
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8/17/99



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SITE 18

PERMIT DRAWING SHEET 46 OF 79



—L—

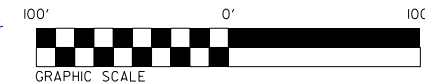
8/17/99



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PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 23
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

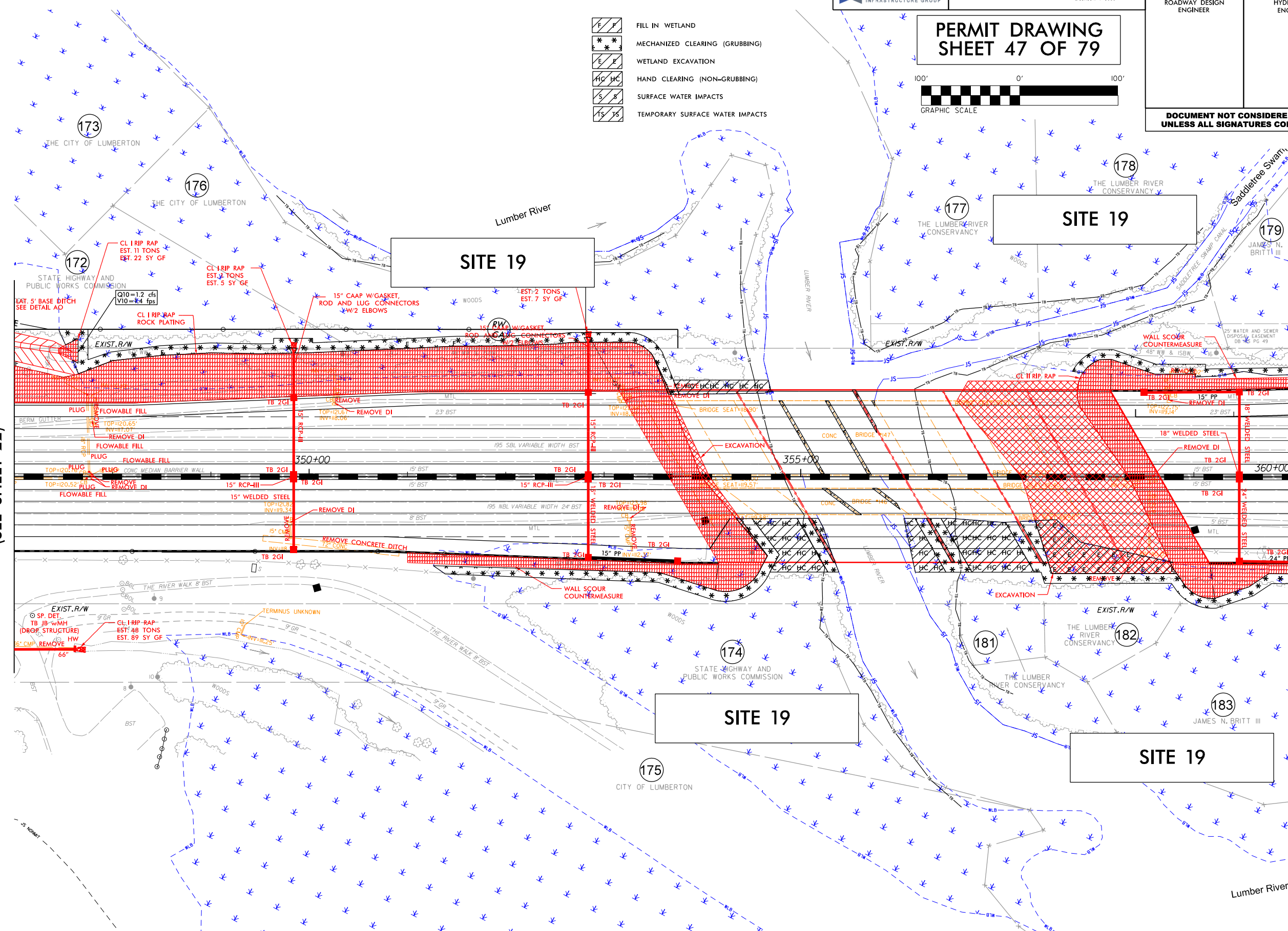
PERMIT DRAWING SHEET 47 OF 79



- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- WETLAND EXCAVATION
- HAND CLEARING (NON-GRUBBING)
- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS

MATCHLINE -L- STA. 347 + 00.00
(SEE SHEET 22)

MATCHLINE -L- STA. 360 + 00.00
(SEE SHEET 24)



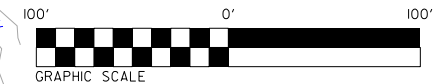
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NORTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. FOR -L- PROFILE SEE SHT.48
 SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. FOR -Y4RPB- PROFILE SEE SHT.6I

8/17/99

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

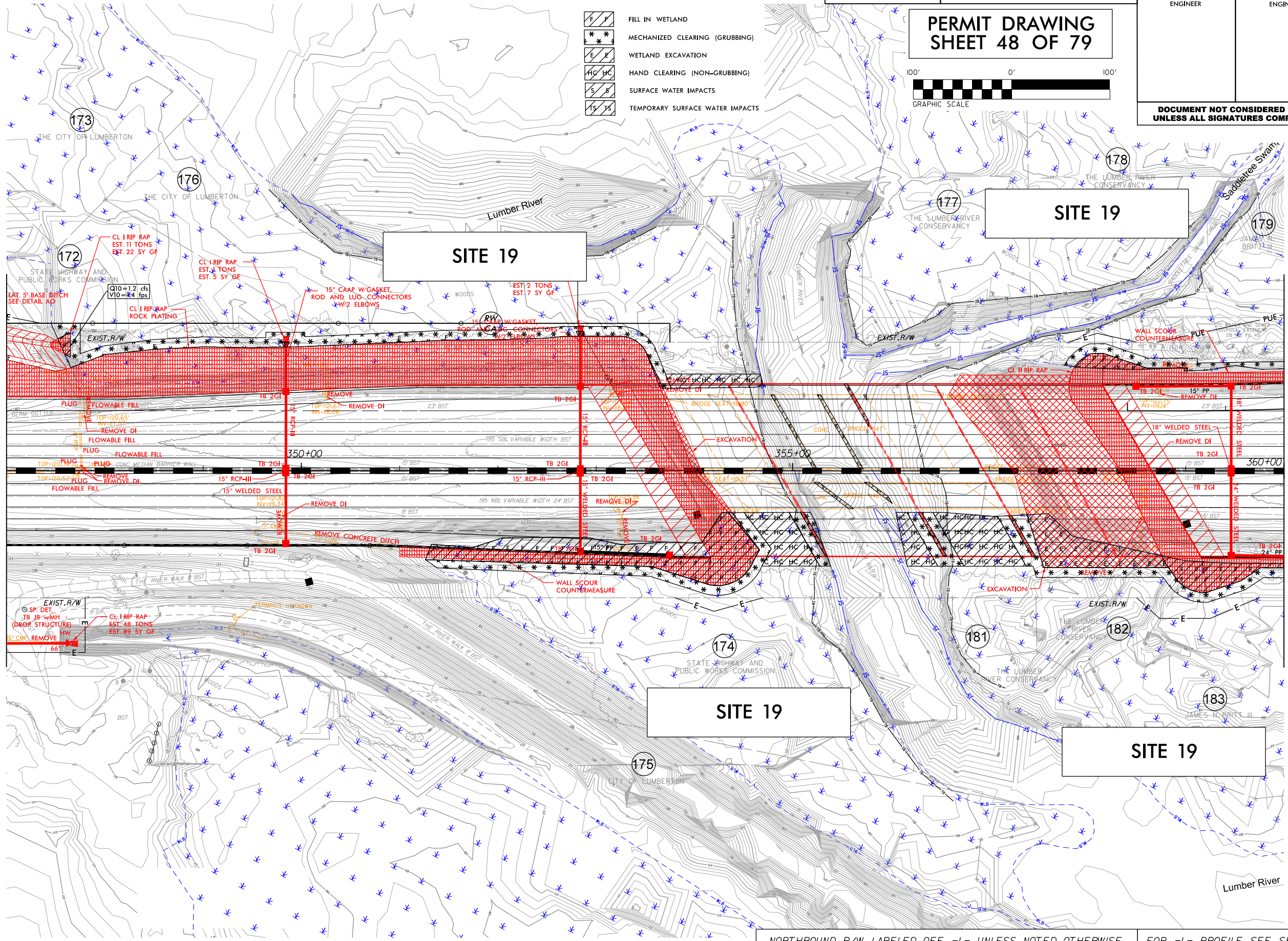
PERMIT DRAWING SHEET 48 OF 79



- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- WETLAND EXCAVATION
- HAND CLEARING (NON-GRUBBING)
- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS

MATCHLINE -L- STA. 347 + 00.00
(SEE SHEET 22)

MATCHLINE -L- STA. 360 + 00.00
(SEE SHEET 24)



\$DATE\$ \$TIME\$
C:\pwworkingdir\pw.ice-eng.com\ice-eng\rw-01\kevin_aiford\dms198271-1-6064_Hyd.prm-Plansheets-ICE_contours.dgn

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 SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. FOR -Y4RPB- PROFILE SEE SHT.61

5/28/99

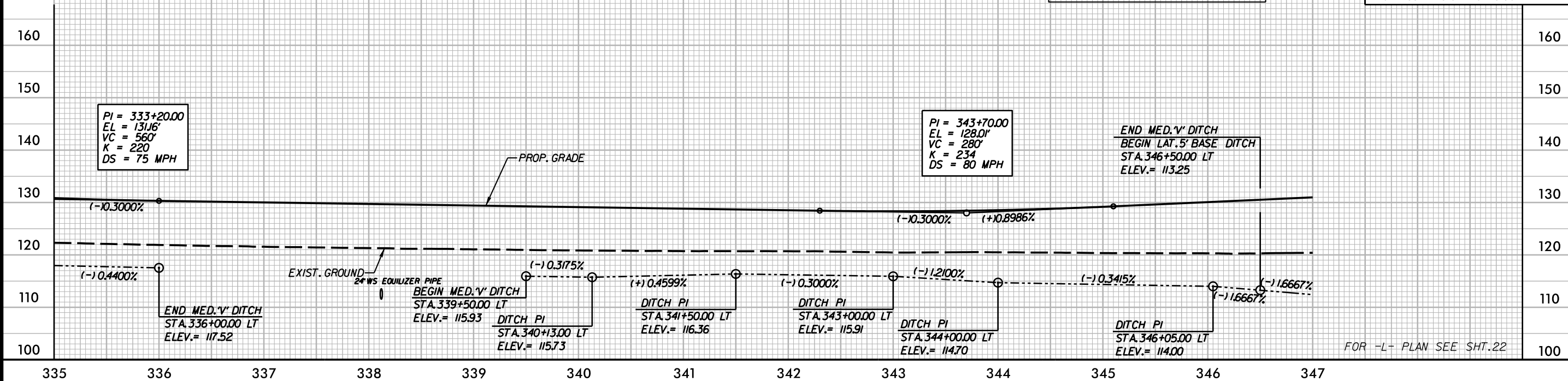
BM#15 ELEVATION = 117.97'
-L- STATION 341+62.2, 324.5' RIGHT



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4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 919-822-5333
License #: P-0999

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 48
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**PERMIT DRAWING
SHEET 49 OF 79**

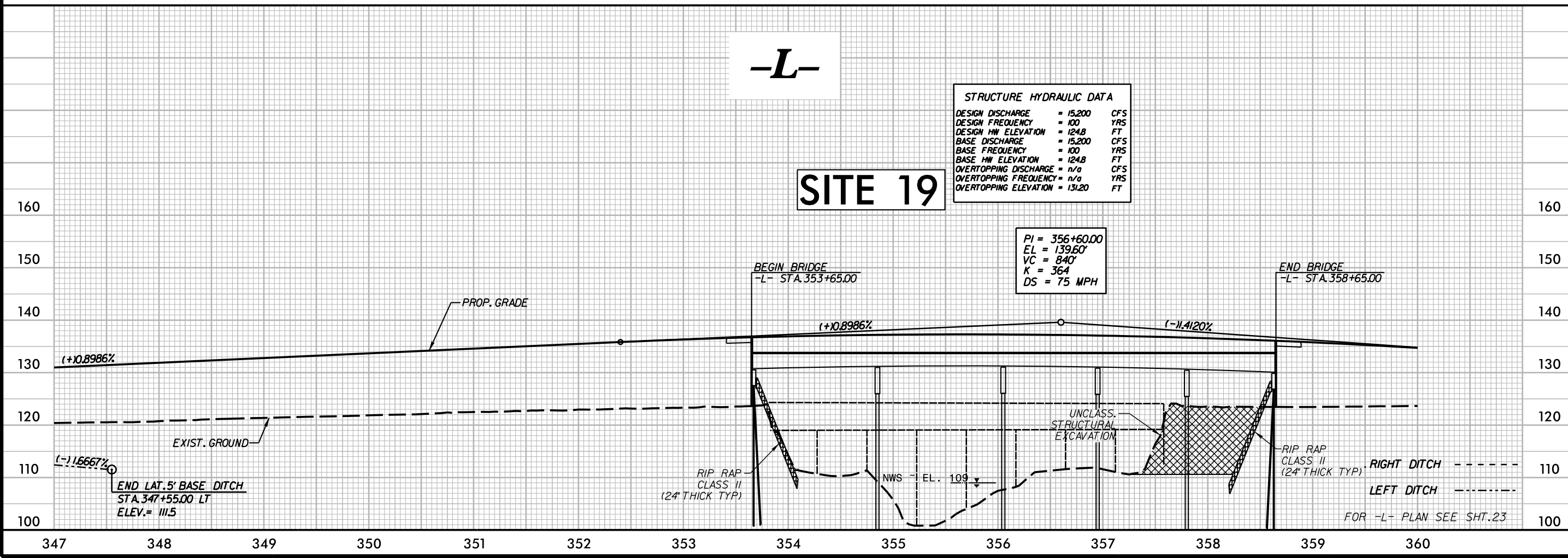


-L-

SITE 19

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 15,200	CFS
DESIGN FREQUENCY	= 100	YRS
DESIGN HW ELEVATION	= 124.8	FT
BASE DISCHARGE	= 15,200	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 124.8	FT
OVERTOPPING DISCHARGE	= n/a	CFS
OVERTOPPING FREQUENCY	= n/a	YRS
OVERTOPPING ELEVATION	= 131.20	FT

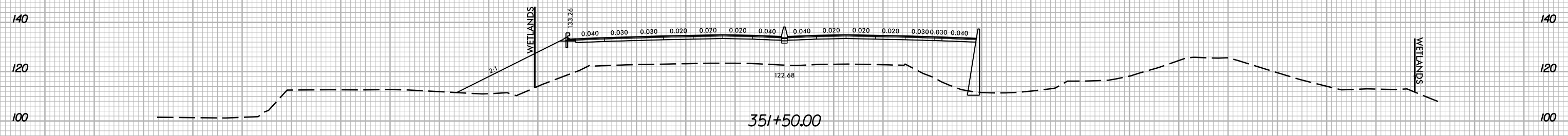
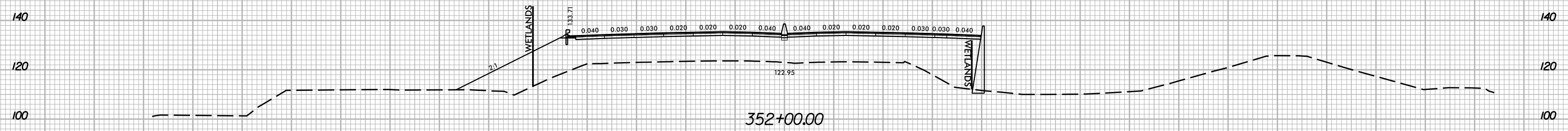
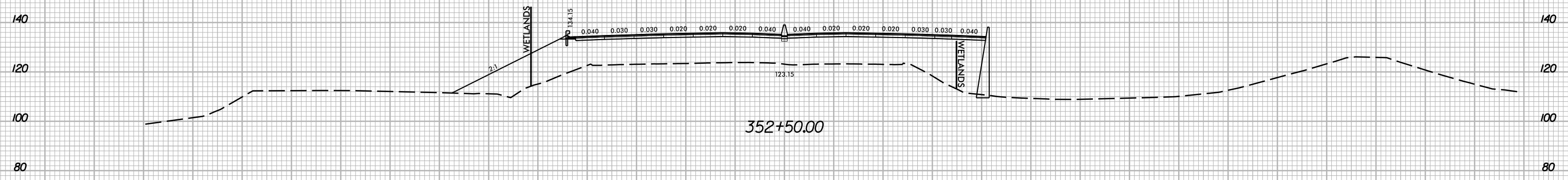


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SITE 19

**PERMIT DRAWING
SHEET 50 OF 79**



—L—

6/23/16



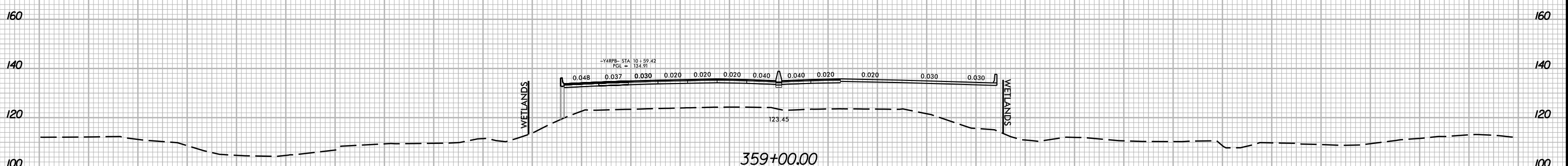
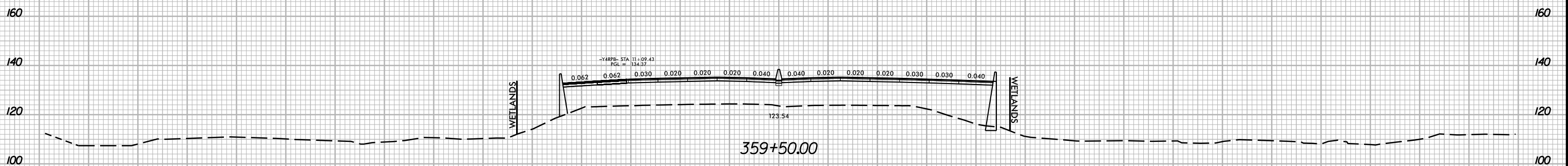
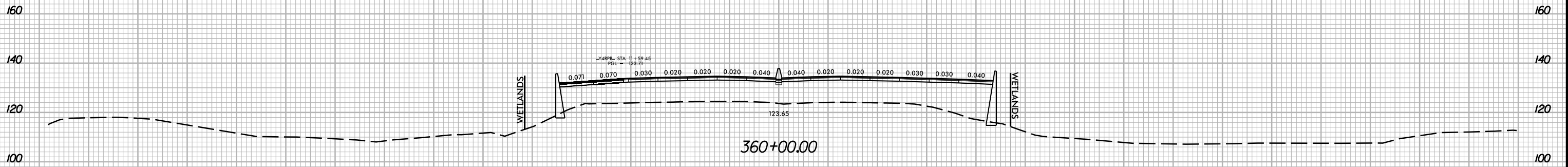
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I-6064/I-5879

SHEET NO.
X-141

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SITE 19

PERMIT DRAWING SHEET 51 OF 79

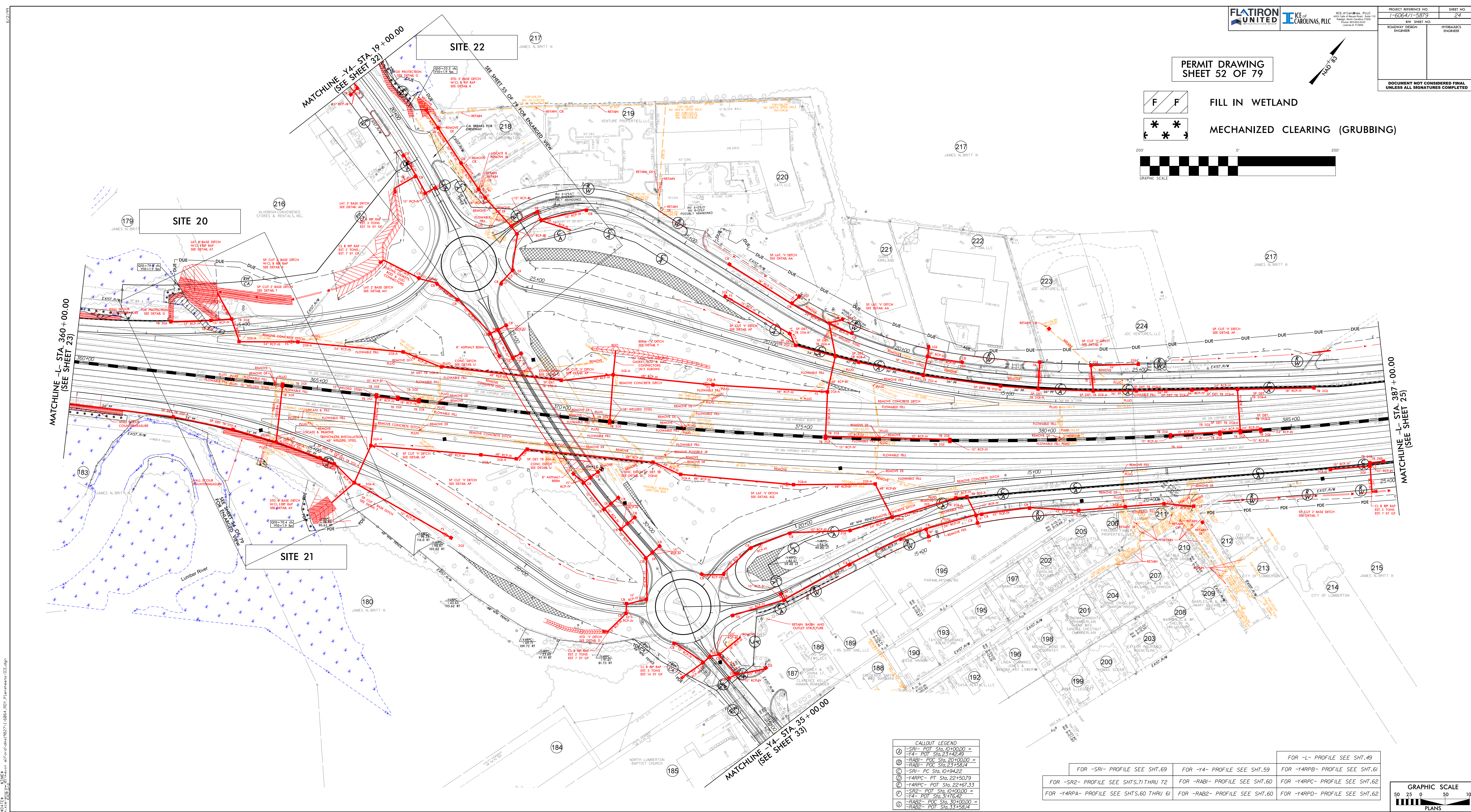
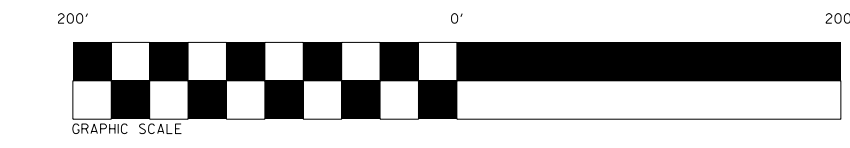


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6/2/2022
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PERMIT DRAWING
SHEET 52 OF 79

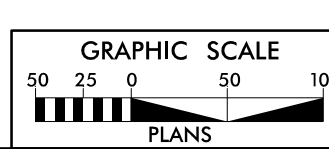
F F FILL IN WETLAND
 * * MECHANIZED CLEARING (GRUBBING)



CALLOUT LEGEND

①	-SR1- POT STA. 0+00.00 =
②	-Y2- POT STA. 23+42.89
③	-RAB- POT STA. 20+00.00 =
④	-RAB- POT STA. 23+58.84
⑤	-SR1- PC STA. 10+94.22
⑥	-Y4RAC- PT STA. 22+50.79
⑦	-Y4RAC- POT STA. 22+46.33
⑧	-SR2- POT STA. 0+00.00 =
⑨	-Y2- POT STA. 3+77.62
⑩	-RAB- POT STA. 30+00.00 =
⑪	-RAB- POT STA. 33+58.84

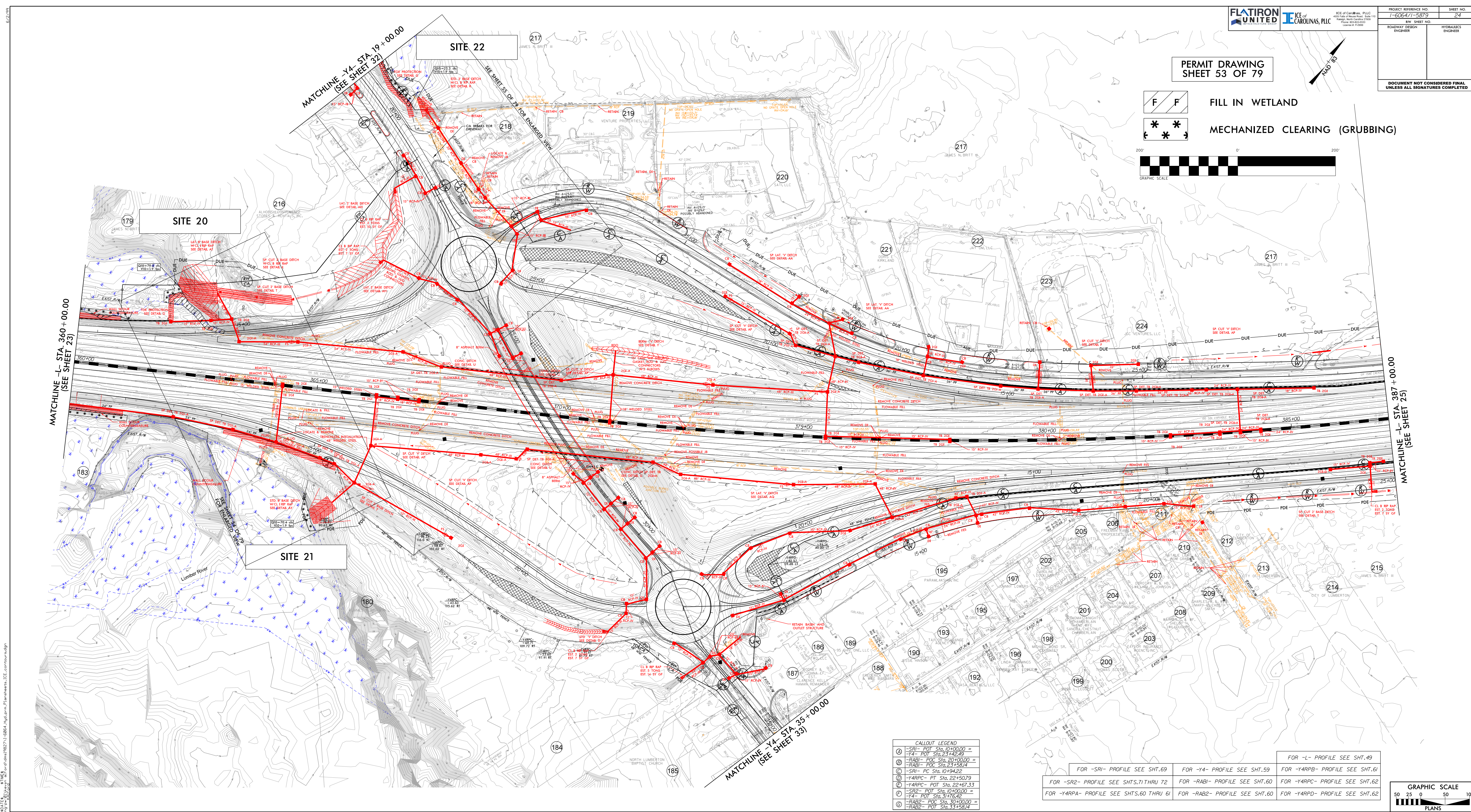
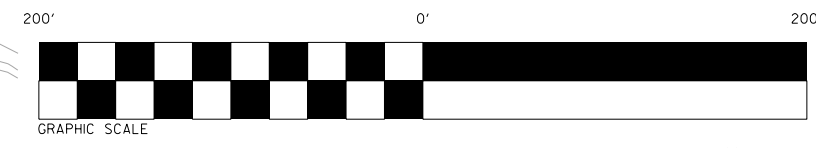
FOR -SR1- PROFILE SEE SHT.69	FOR -Y4- PROFILE SEE SHT.59	FOR -Y4RPB- PROFILE SEE SHT.61
FOR -SR2- PROFILE SEE SHTS.71 THRU 72	FOR -RAB1- PROFILE SEE SHT.60	FOR -Y4RAC- PROFILE SEE SHT.62
FOR -Y4RPA- PROFILE SEE SHTS.60 THRU 61	FOR -RAB2- PROFILE SEE SHT.60	FOR -Y4RPD- PROFILE SEE SHT.62



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 DATE: 08/20/2018
 DRAWN BY: JTB
 CHECKED BY: JTB

PERMIT DRAWING
SHEET 53 OF 79

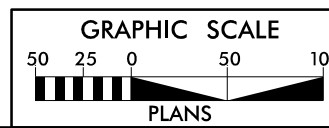
F F FILL IN WETLAND
 * * * MECHANIZED CLEARING (GRUBBING)



CALLOUT LEGEND

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②	-Y2- PVI Sta. 21422.89
③	-RAB- PVI Sta. 20+000.00 =
④	-RAB- PVI Sta. 21+584.4
⑤	-SR1- PVI Sta. 10194.22
⑥	-Y4R1C- PVI Sta. 22+507.9
⑦	-Y4R1C- PVI Sta. 22+463.33
⑧	-Y2- PVI Sta. 101500.00 =
⑨	-Y2- PVI Sta. 31716.42
⑩	-RAB- PVI Sta. 30+000.00 =
⑪	-RAB- PVI Sta. 33758.64

FOR -SR1- PROFILE SEE SHT.69	FOR -Y4- PROFILE SEE SHT.59	FOR -Y4R1B- PROFILE SEE SHT.61
FOR -SR2- PROFILE SEE SHTS.71 THRU 72	FOR -RAB1- PROFILE SEE SHT.60	FOR -Y4R1C- PROFILE SEE SHT.62
FOR -Y4R1A- PROFILE SEE SHTS.60 THRU 61	FOR -RAB2- PROFILE SEE SHT.60	FOR -Y4R1D- PROFILE SEE SHT.62



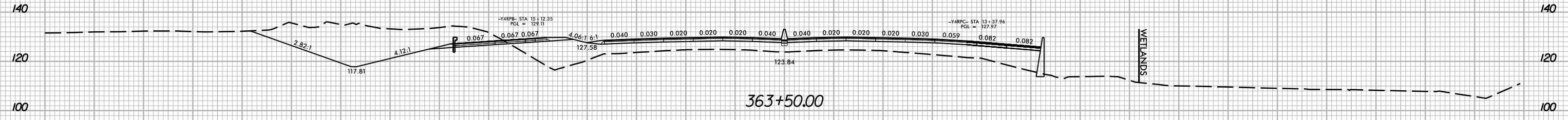
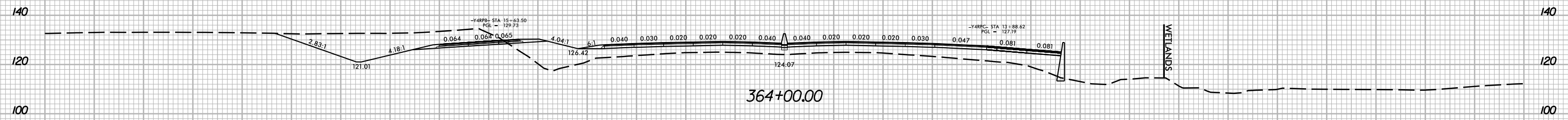
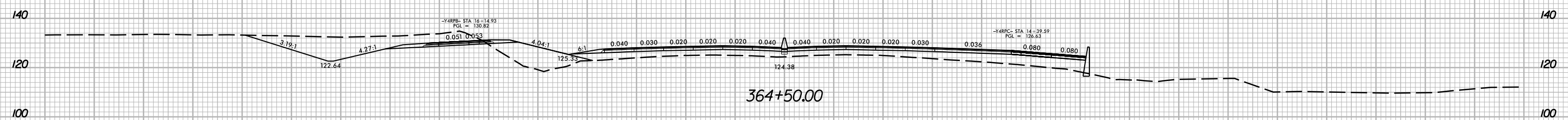
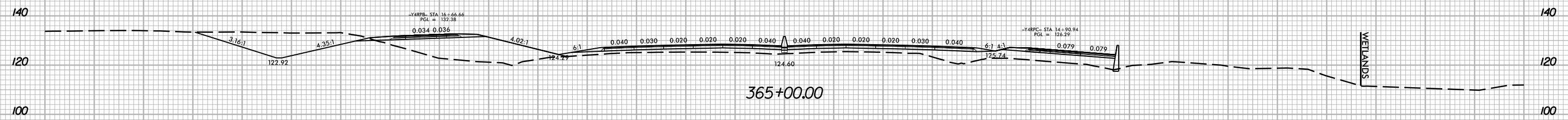
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6/23/16

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SITE 21

PERMIT DRAWING SHEET 56 OF 79



300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

8/2/2022 10:50:01 I-6064_hyd.prm_XPL_1.rce.dgn

8/17/99



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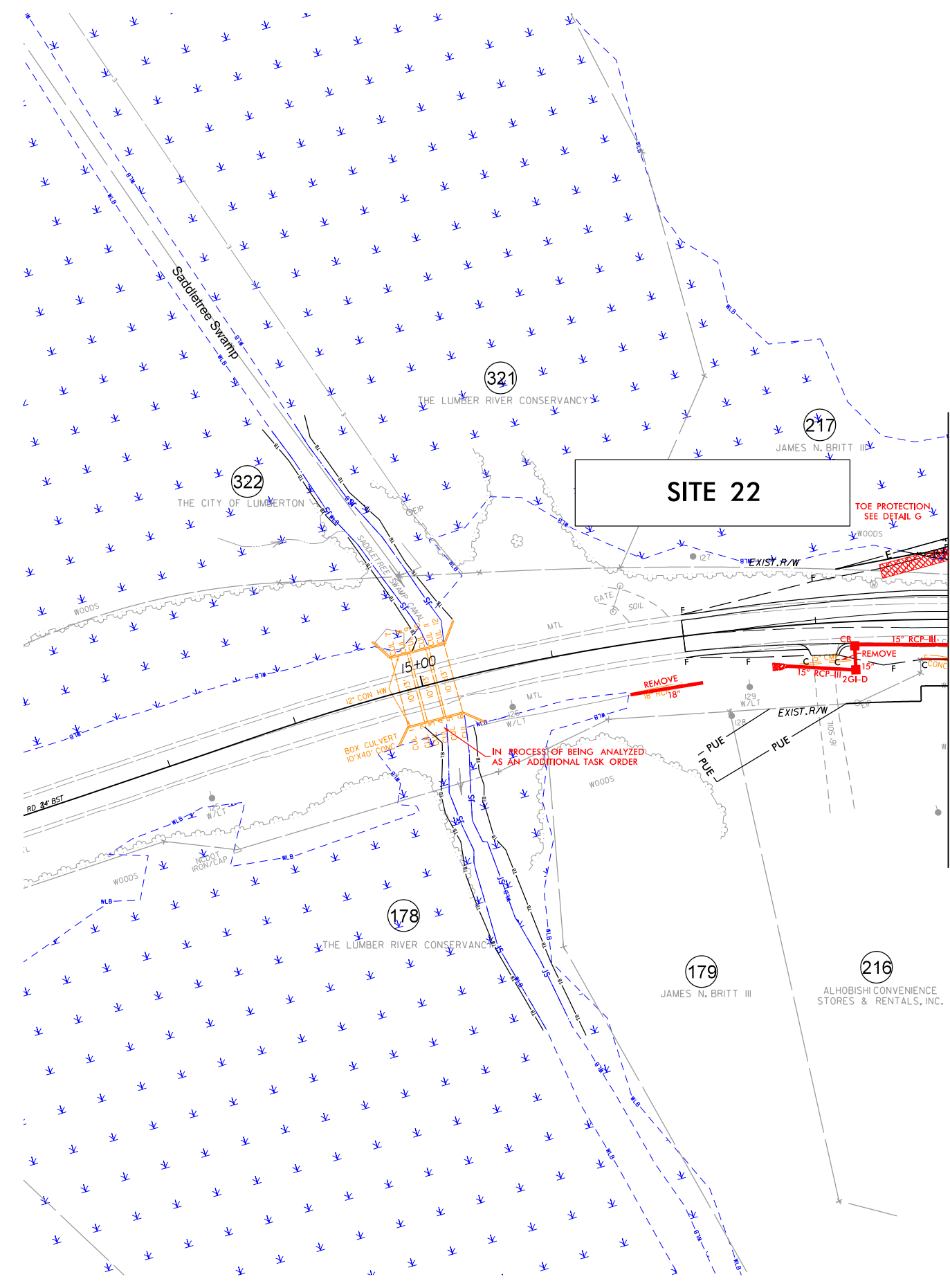
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SURFACE WATER IMPACTS
 TEMPORARY SURFACE WATER IMPACTS
 FILL IN WETLAND
 MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

PERMIT DRAWING SHEET 57 OF 79



MATCHLINE -Y4- STA. 19 + 00.00
(SEE SHEET 24)

R/W LABELED OFF -Y4- UNLESS NOTED OTHERWISE. FOR -Y4- PROFILE SEE SHT. 59

\$DATE\$ \$TIME\$
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Kalford

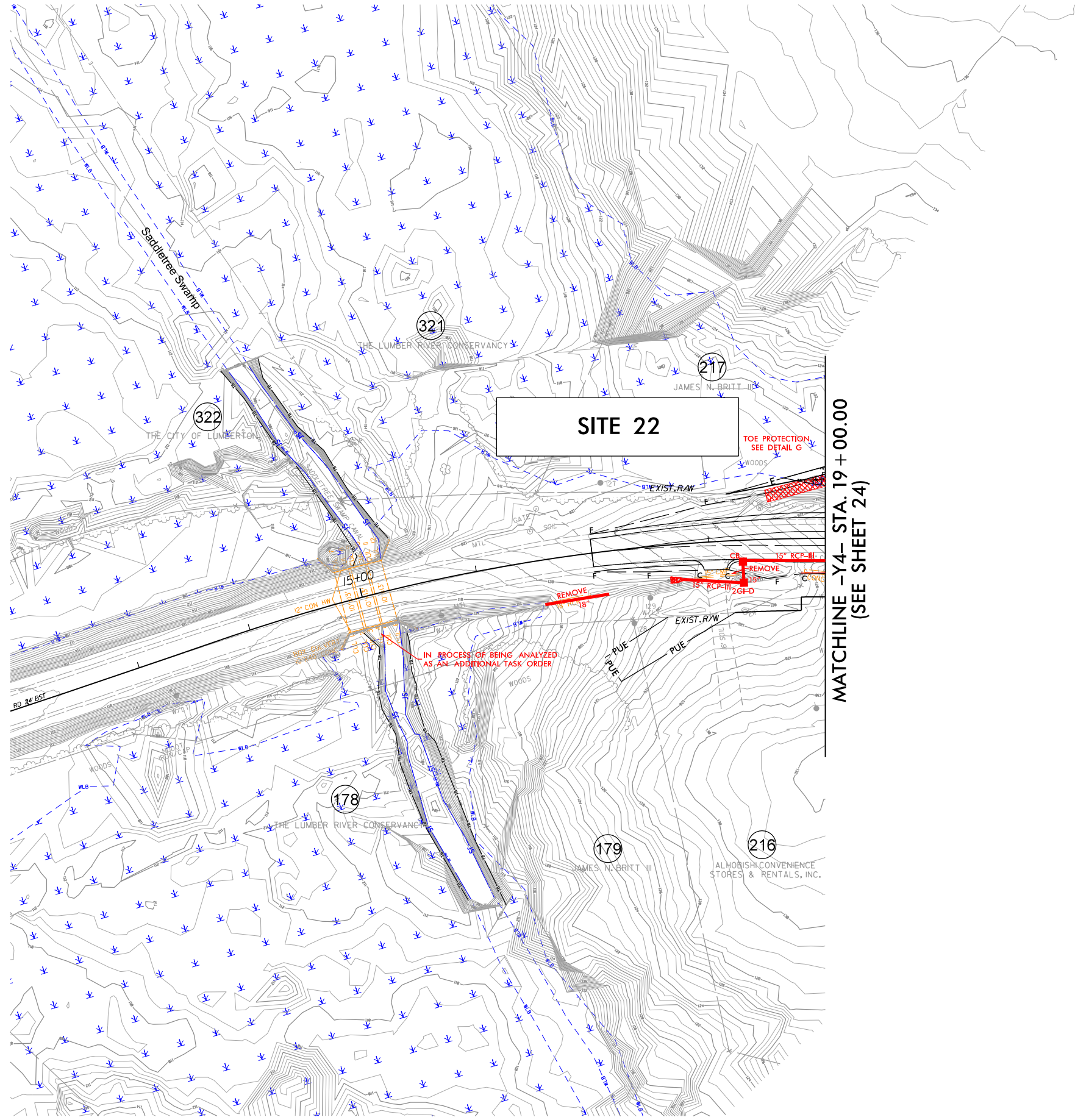
8/17/99

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KAlford



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PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 32
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



	SURFACE WATER IMPACTS
	TEMPORARY SURFACE WATER IMPACTS
	FILL IN WETLAND
	MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

**PERMIT DRAWING
SHEET 58 OF 79**

MATCHLINE -Y4- STA. 19 + 00.00
(SEE SHEET 24)

R/W LABELED OFF -Y4- UNLESS NOTED OTHERWISE. FOR -Y4- PROFILE SEE SHT. 59

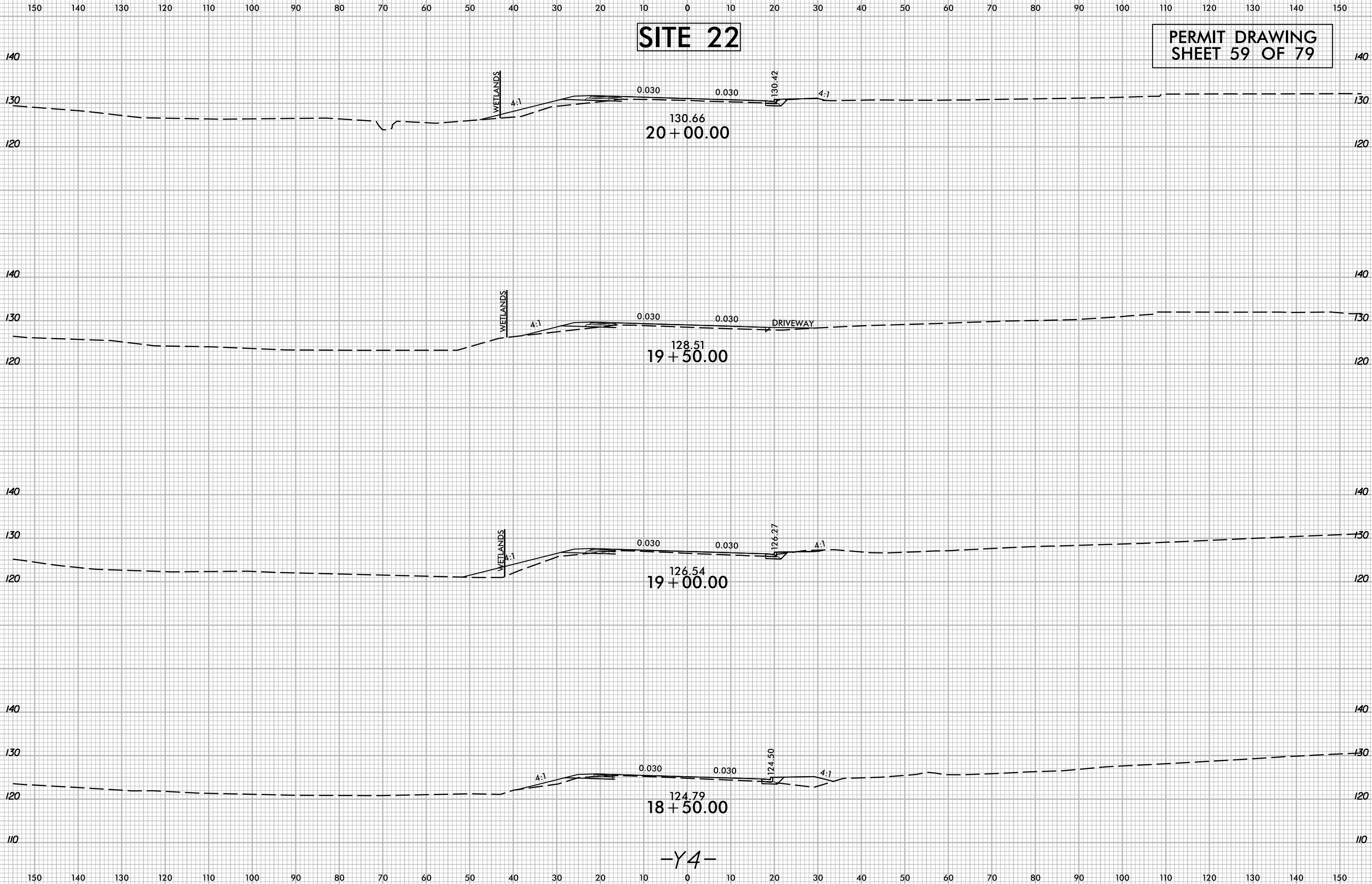
6/23/16



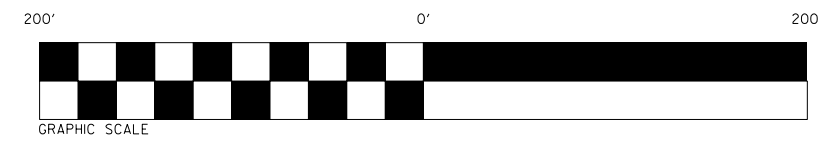
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SITE 22

PERMIT DRAWING
SHEET 59 OF 79



6/2/2022
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USER:KAT

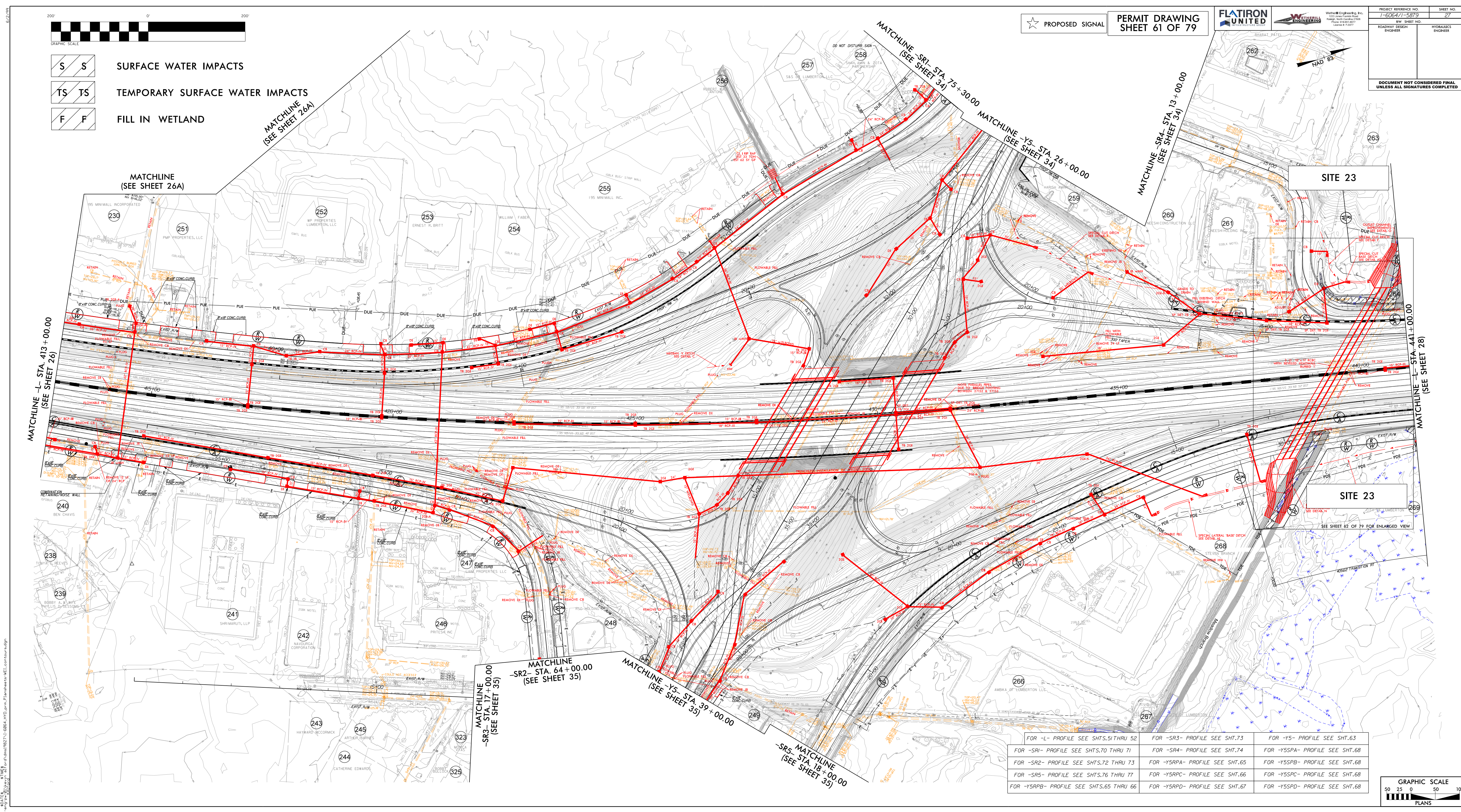


- S S SURFACE WATER IMPACTS
- TS TS TEMPORARY SURFACE WATER IMPACTS
- F F FILL IN WETLAND

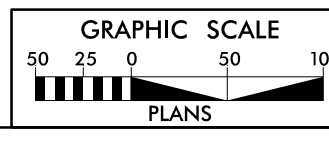
PROPOSED SIGNAL

PERMIT DRAWING
SHEET 61 OF 79

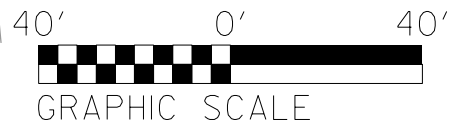
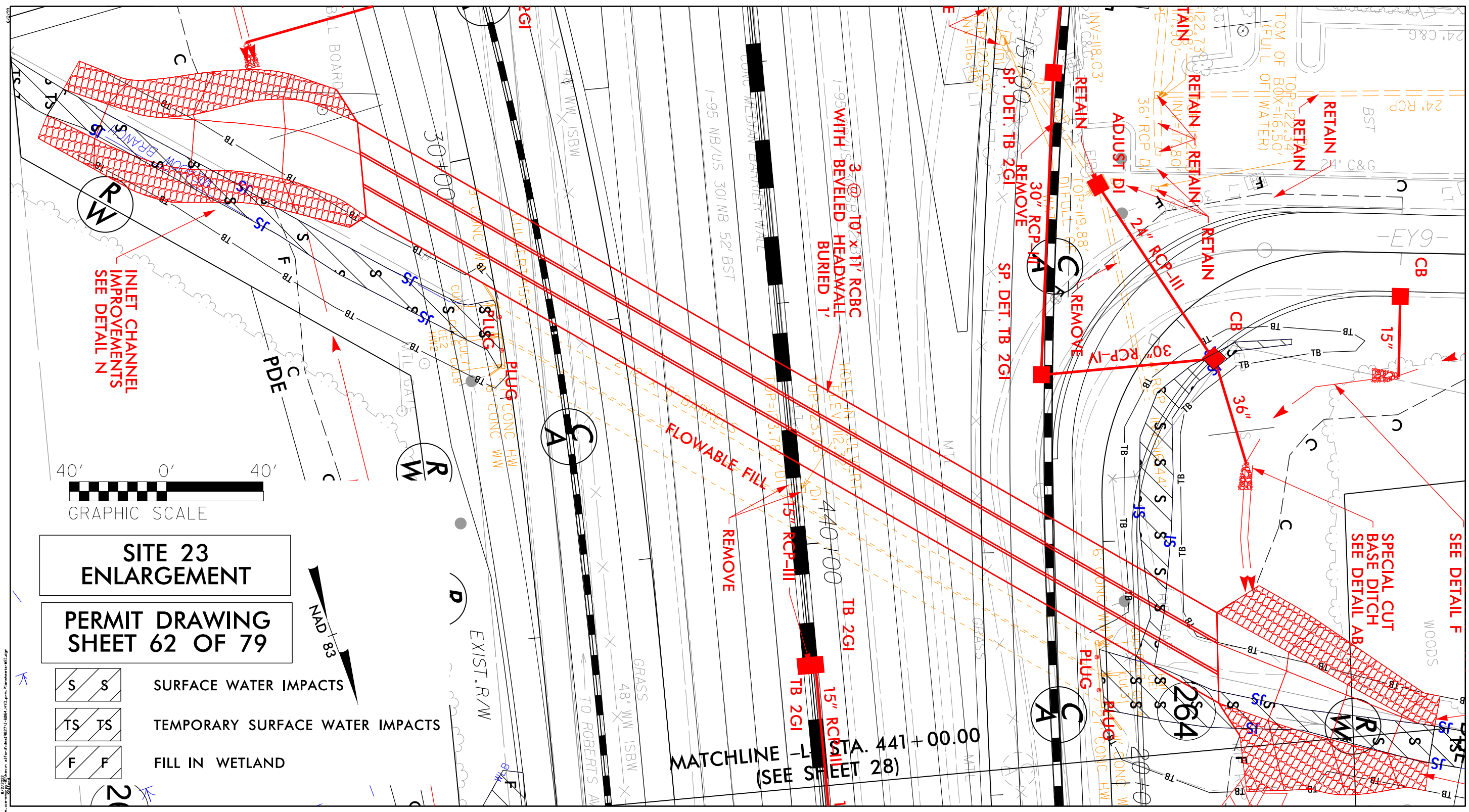
PROJECT REFERENCE NO. 7-166471-5879	SHEET NO. 77
	HW SHEET NO. 27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FOR -L- PROFILE SEE SHTS.51 THRU 52	FOR -SR3- PROFILE SEE SHT.73	FOR -Y5- PROFILE SEE SHT.63
FOR -SR1- PROFILE SEE SHTS.70 THRU 71	FOR -SR4- PROFILE SEE SHT.74	FOR -Y5SPA- PROFILE SEE SHT.68
FOR -SR2- PROFILE SEE SHTS.72 THRU 73	FOR -Y5RPA- PROFILE SEE SHT.65	FOR -Y5SPB- PROFILE SEE SHT.68
FOR -SR5- PROFILE SEE SHTS.76 THRU 77	FOR -Y5RPC- PROFILE SEE SHT.66	FOR -Y5SPC- PROFILE SEE SHT.68
FOR -Y5RPB- PROFILE SEE SHTS.65 THRU 66	FOR -Y5RPD- PROFILE SEE SHT.67	FOR -Y5SPD- PROFILE SEE SHT.68

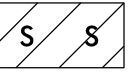
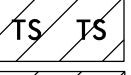



DATE: 07/27/2017 11:53 AM BY: J. WILSON (102721) 62864.DWG P:\Projects\7-166471-5879\Drawings\61.dwg



**SITE 23
ENLARGEMENT**

**PERMIT DRAWING
SHEET 62 OF 79**

-  SURFACE WATER IMPACTS
-  TEMPORARY SURFACE WATER IMPACTS
-  FILL IN WETLAND

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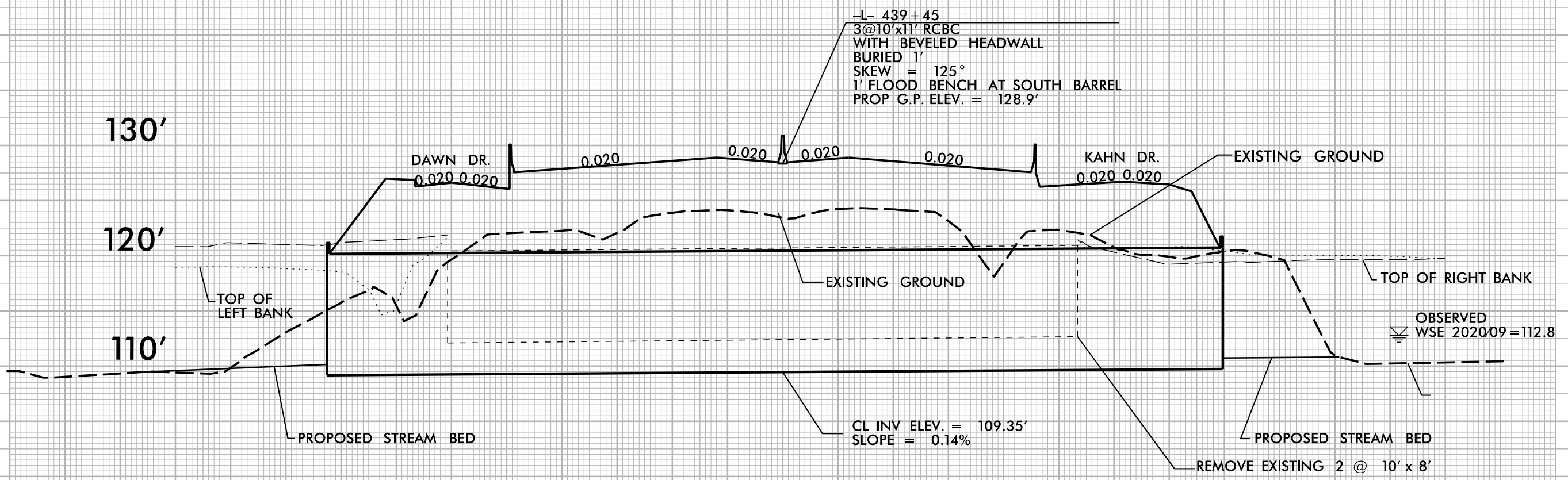
5/14/99

PERMIT DRAWING
SHEET 63 OF 79

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

SITE 23 MEADOW BRANCH

300' 250' 200' 150' 100' 50' 0' 50' 100' 150' 200' 250' 300'



PROFILE ALONG STRUCTURE

8/2/2022
i:\6064_hyd-prm-meadow-branch-profile.dgn

8/17/99



Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 64 OF 79

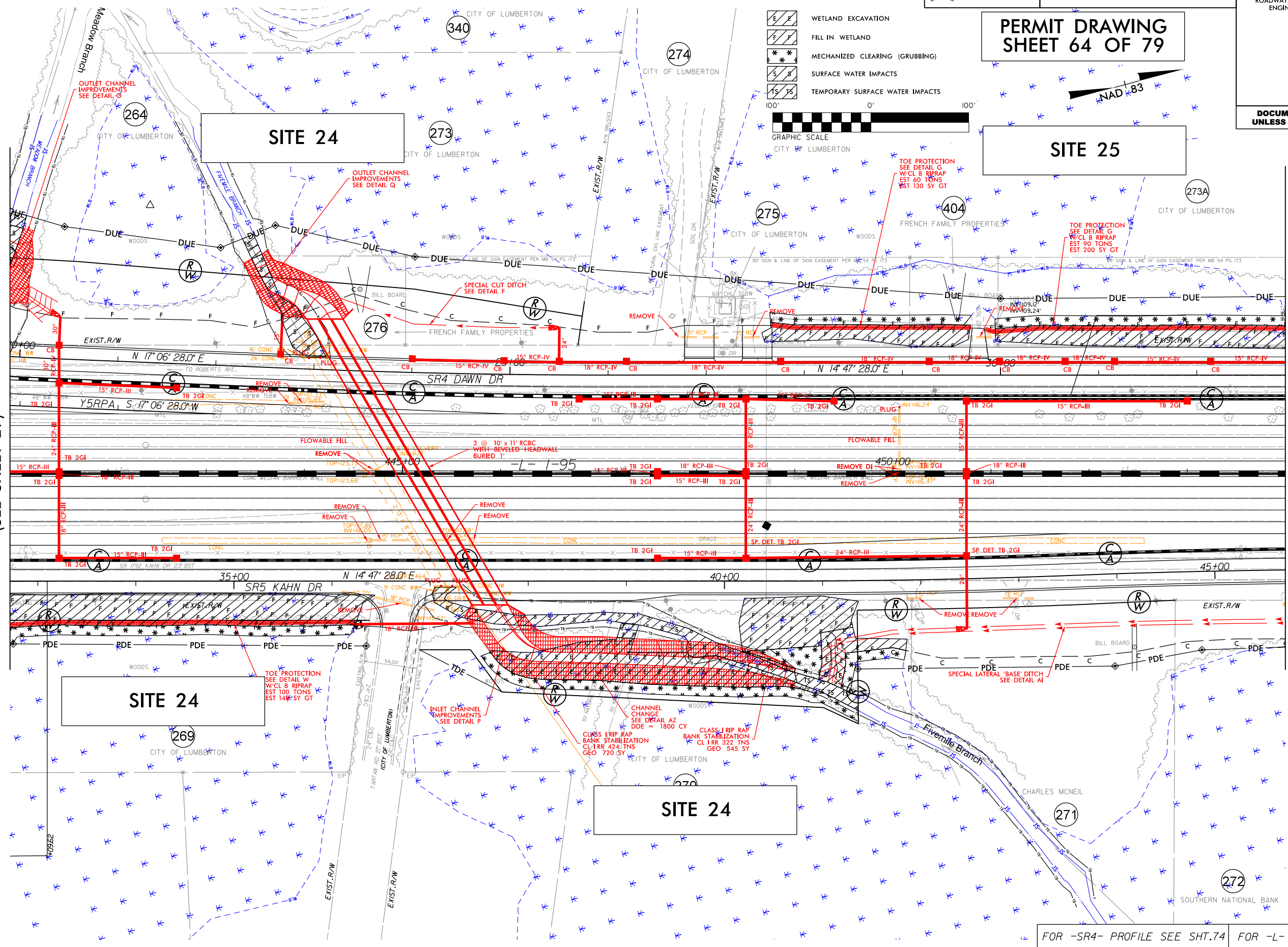


- WETLAND EXCAVATION
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS



MATCHLINE -L- STA. 441 + 00.00
(SEE SHEET 27)

MATCHLINE -L- STA. 454 + 00.00
(SEE SHEET 29)



\$DATE\$ \$TIME\$
 c:\pwworkingdir\pwworkingdir\ice-eng-pw-01\kevin alford\dms19827\1-6064_HYD_prm-Plansheets-WEI.dgn
 kevin.alford

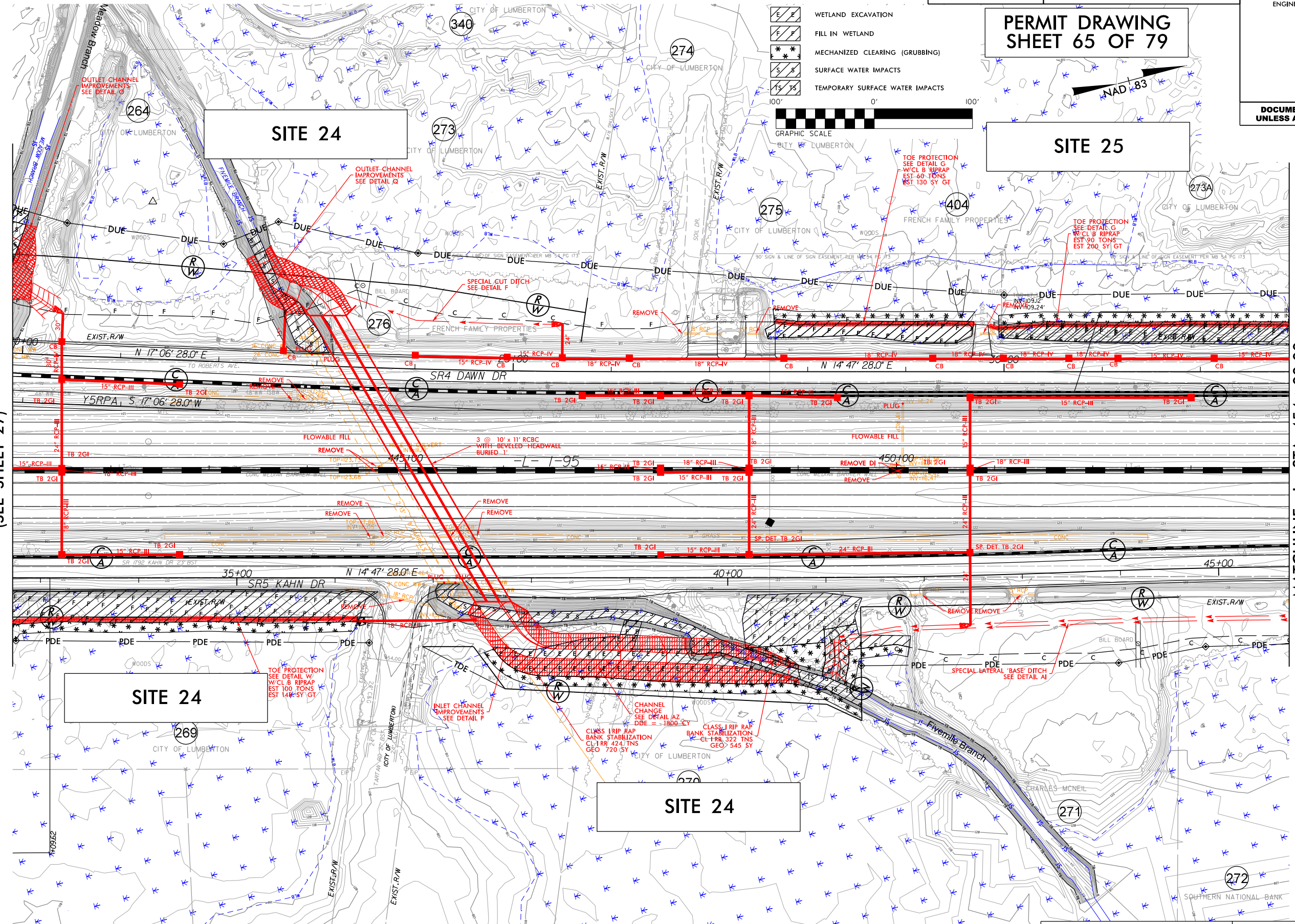
FOR -SR4- PROFILE SEE SHT.74	FOR -L- PROFILE SEE SHT.52
FOR -Y5RPA- PROFILE SEE SHT.65	FOR -SR5- PROFILE SEE SHT.77

DATE: 11/15/2017
 DRAWN BY: K. King
 CHECKED BY: J. Ford
 PROJECT: 1-6064_HYD.prm_PlanSheets-WEL_contours.dgn
 8/17/99

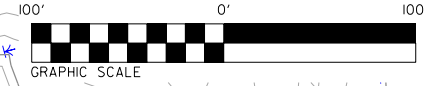


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 1223 Jones Franklin Road
 Raleigh, North Carolina 27608
 Phone: 919-851-8077
 License #: F-0377

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



- WETLAND EXCAVATION
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS



PERMIT DRAWING SHEET 65 OF 79



MATCHLINE -L- STA. 441+00.00
(SEE SHEET 27)

MATCHLINE -L- STA. 454+00.00
(SEE SHEET 29)

FOR -SR4- PROFILE SEE SHT.74 FOR -L- PROFILE SEE SHT.52
 FOR -Y5RPA- PROFILE SEE SHT.65 FOR -SR5- PROFILE SEE SHT.77

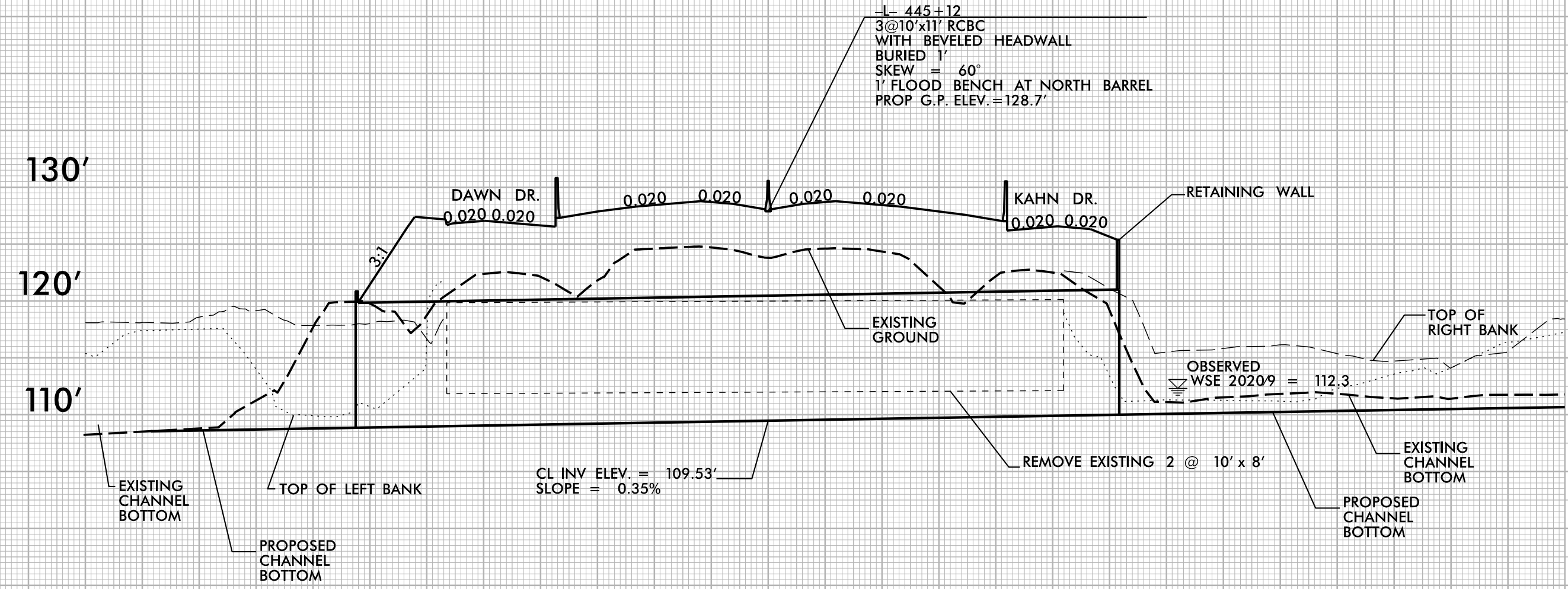
5/14/99

PERMIT DRAWING
SHEET 66 OF 79

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

SITE 24 FIVE MILE BRANCH

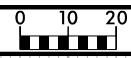
300' 250' 200' 150' 100' 50' 0' 50' 100' 150' 200' 250' 300'



PROFILE ALONG STRUCTURE

8/2/2022
i:\16064_hyd-prm-five mile branch profile.dgn

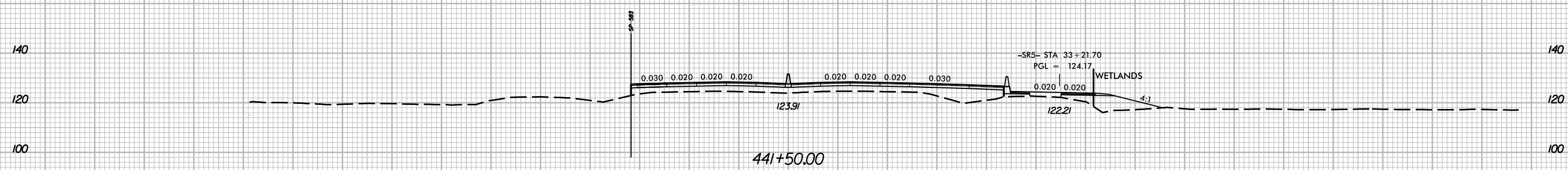
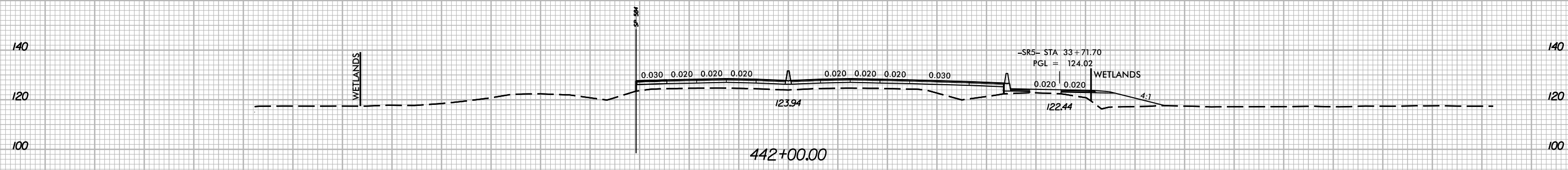
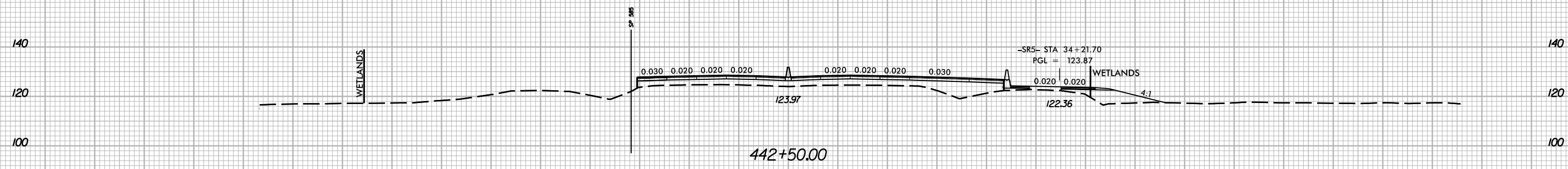
8/23/99



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SITE 24

PERMIT DRAWING SHEET 67 OF 79



-L-

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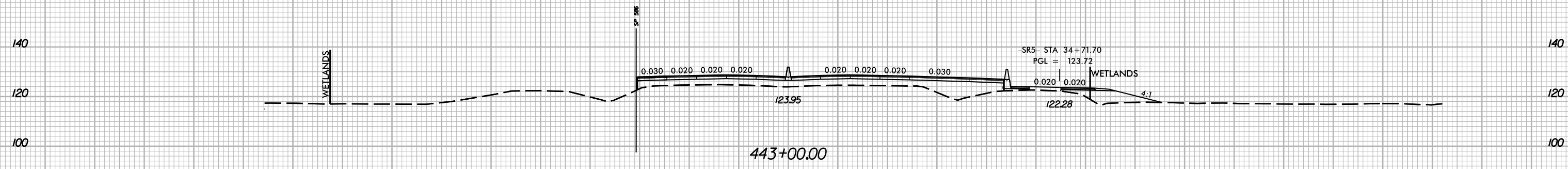
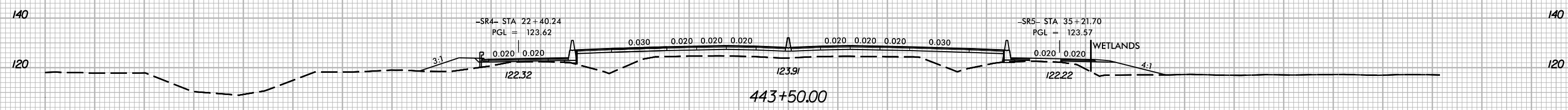
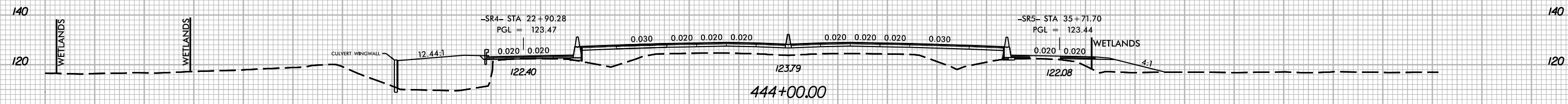
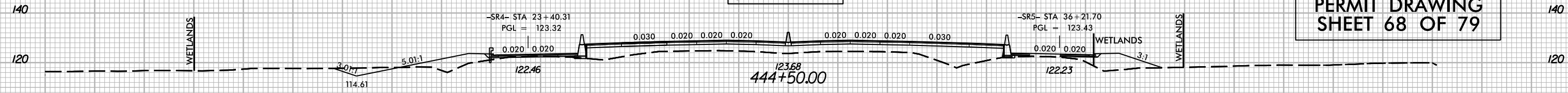
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8/23/99

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SITE 24

PERMIT DRAWING
SHEET 68 OF 79



-L-

8/2/2022
I-6064_hyd_perm_XPL_L-WEL.dgn
USER:KAIT

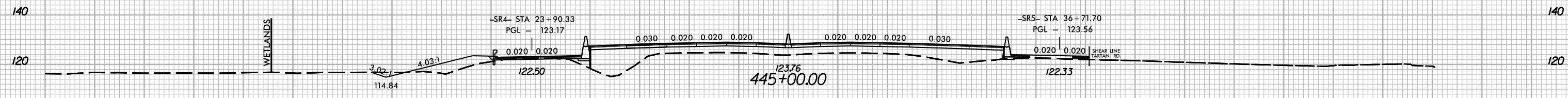
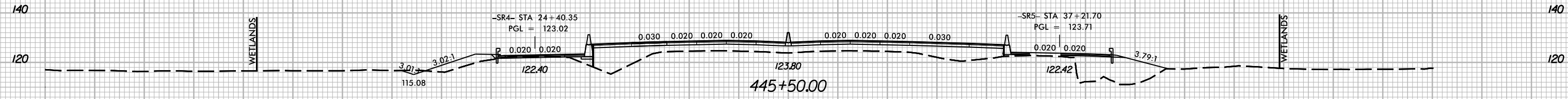
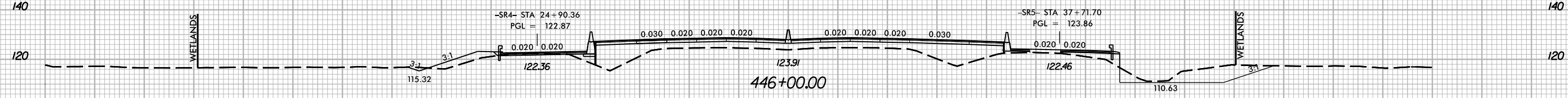
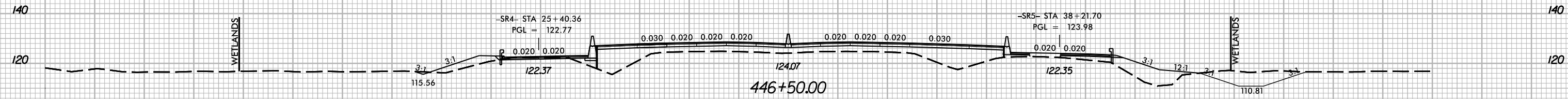
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8/23/99

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

SITE 24

PERMIT DRAWING SHEET 69 OF 79



-L-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

8/2/2022 8:23:00 AM I:\6064\hyd_perm_XPL_L-WEL.dgn USER:KAIT

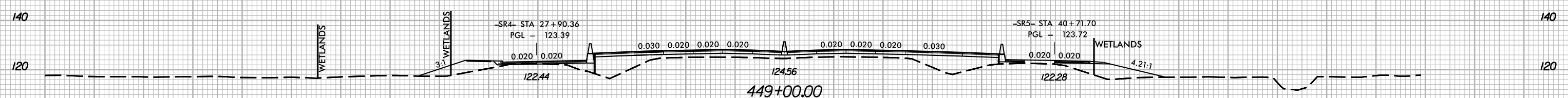
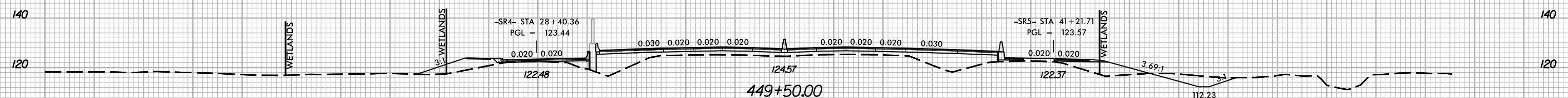
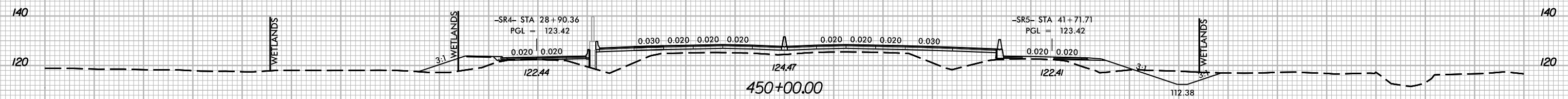
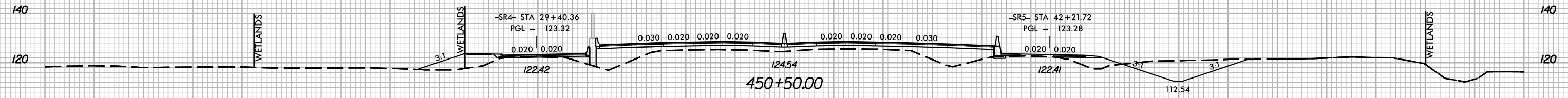
8/23/99

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SITE 25

SITE 24

**PERMIT DRAWING
SHEET 70 OF 79**



-L-

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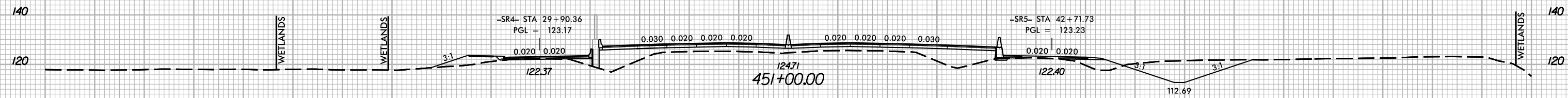
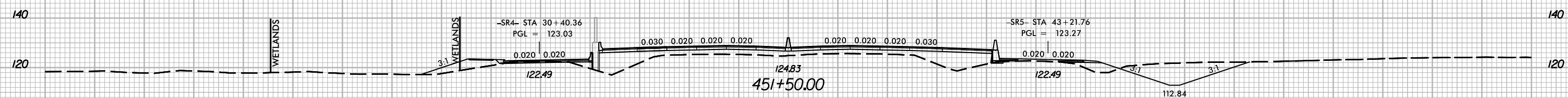
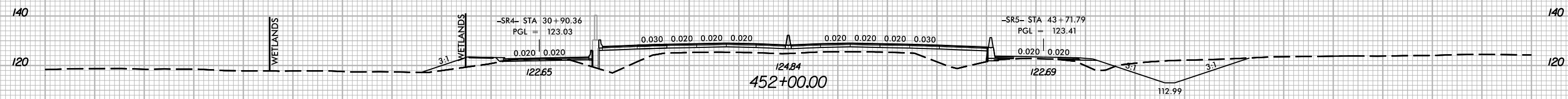
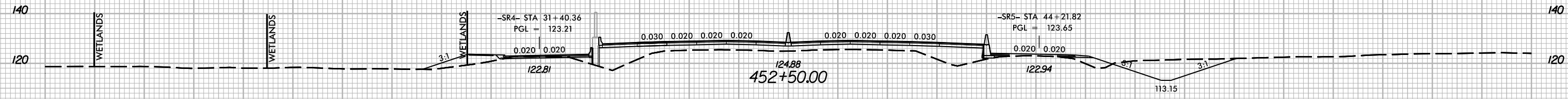
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8/23/99

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SITE 25

PERMIT DRAWING
SHEET 71 OF 79



-L-

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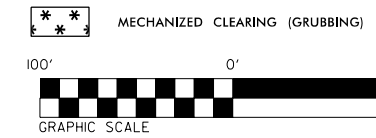
8/17/99



Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

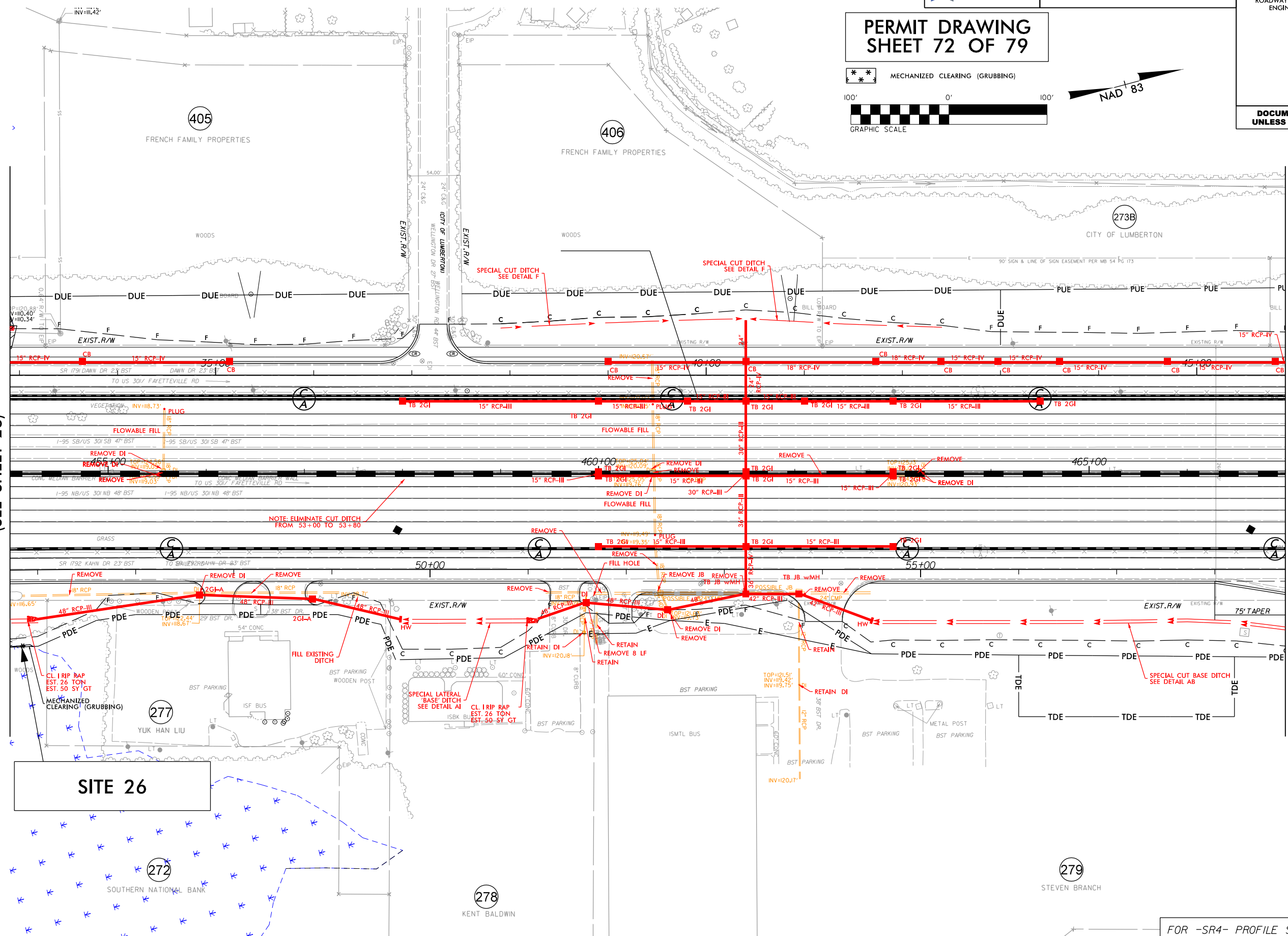
PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 72 OF 79



MATCHLINE -L- STA. 454 + 00.00
(SEE SHEET 28)

MATCHLINE -L- STA. 467 + 00.00
(SEE SHEET 30)



SITE 26

272
SOUTHERN NATIONAL BANK

278
KENT BALDWIN

279
STEVEN BRANCH

\$DATE\$ \$TIME\$
c:\pwworkingdir\pw.ice-eng.com.ice-eng-pw-01\kevin_alford\dms19827\1-6064_HYD_prm-Plansheets-WEI.dgn
Kalford

FOR -SR4- PROFILE SEE SHTS.74 THRU 75
FOR -L- PROFILE SEE SHTS.52 THRU 53
FOR -SR5- PROFILE SEE SHTS.77 THRU 78

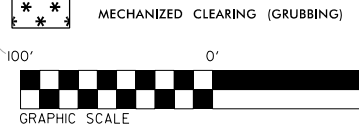
8/17/99
DATE: 8/17/99
DRAWN BY: KALFORD
CHECKED BY: KEVIN ALFORD
PROJECT: 1-6064_HYD.prm_PlanSheets-WELcontours.dgn



Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27608
Phone: 919-851-8077
License #: F-0377

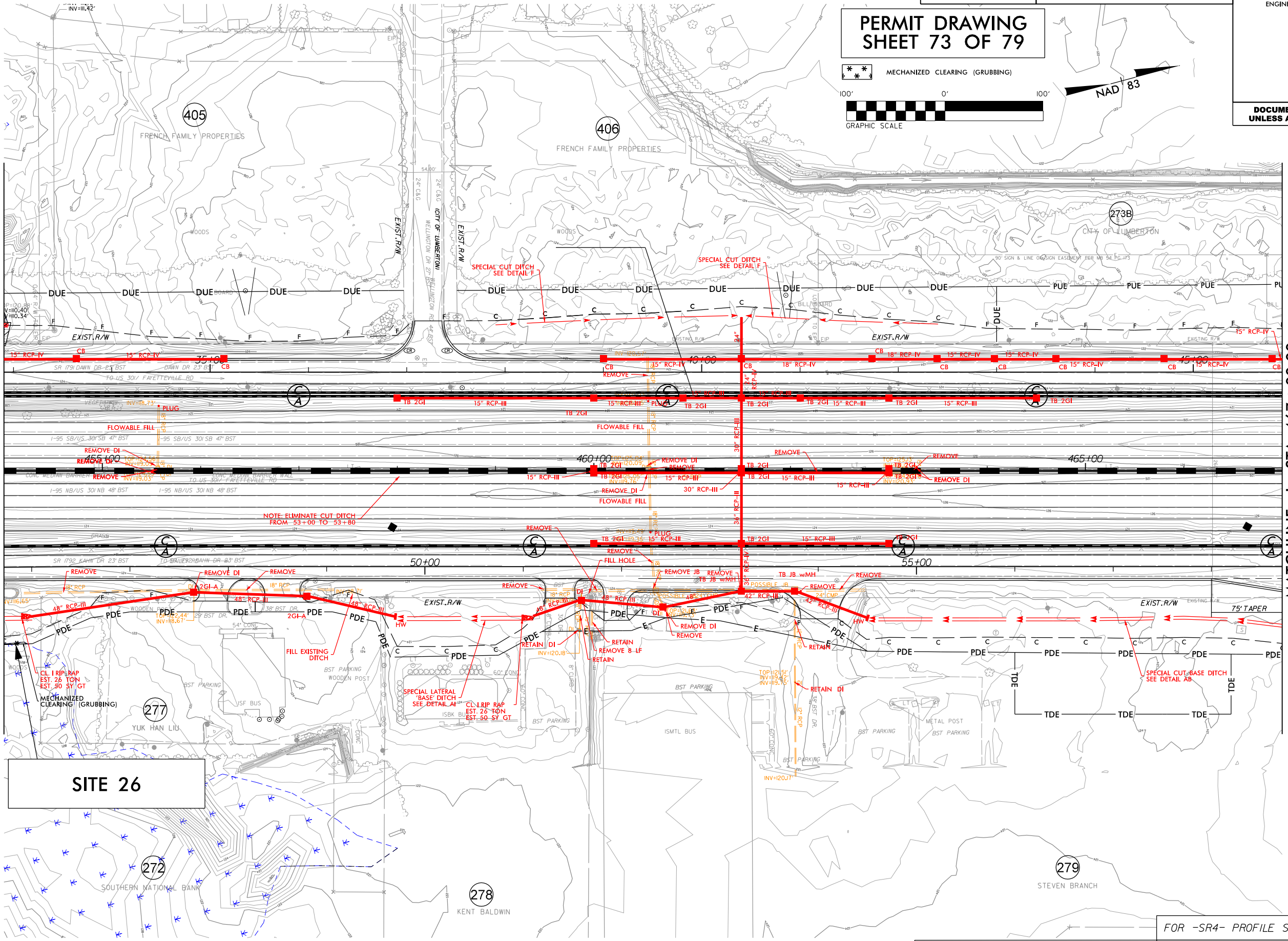
PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 73 OF 79



MATCHLINE -L- STA. 454 + 00.00
(SEE SHEET 28)

MATCHLINE -L- STA. 467 + 00.00
(SEE SHEET 30)



SITE 26

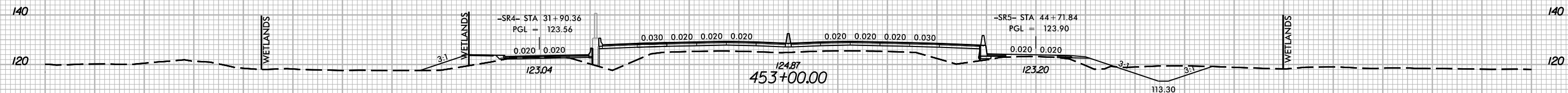
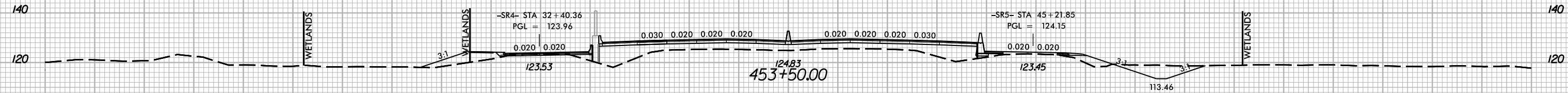
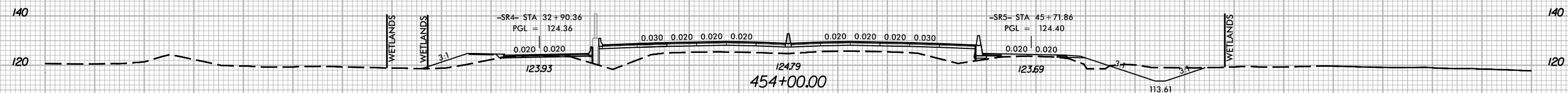
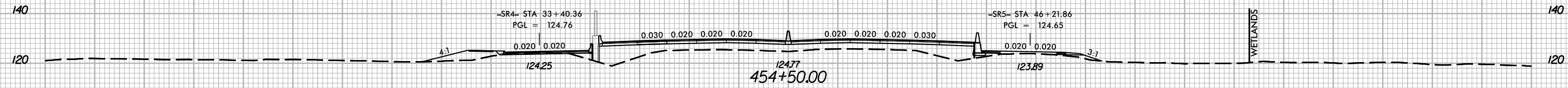
FOR -SR4- PROFILE SEE SHTS.74 THRU 75
FOR -L- PROFILE SEE SHTS.52 THRU 53
FOR -SR5- PROFILE SEE SHTS.77 THRU 78

8/23/99

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

SITE 26

PERMIT DRAWING SHEET 74 OF 79



-L-

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

8/2/2022 16:06:41 hyd_perm_XPL-WEL.dgn USER:KAIT

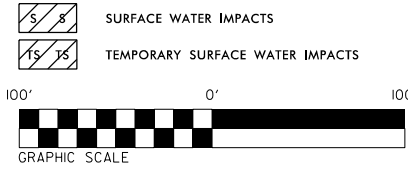
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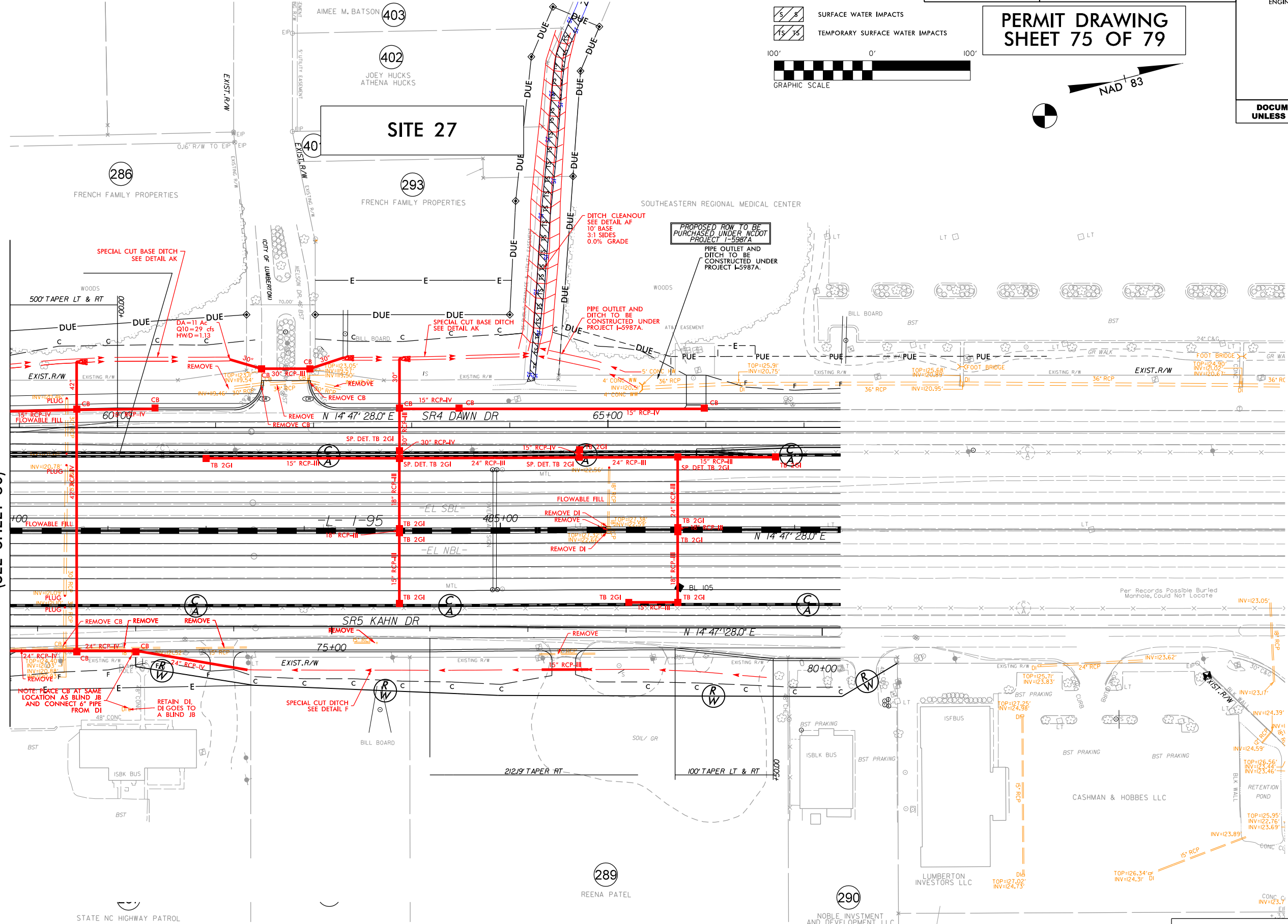
Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 75 OF 79



MATCHLINE -L- STA. 480 + 00.00
(SEE SHEET 30)



DATE: \$TIME\$
C:\pwworkingdir\pwworkingdir\ice-eng-pw-01\kevin alford\dms19827\1-6064_HYD_prm_PlanSheets-WEI.dgn
KAlford

FOR -SR4- PROFILE SEE SHTS.75 THRU 76
FOR -L- PROFILE SEE SHT.53
FOR -SR5- PROFILE SEE SHTS.78 THRU 79

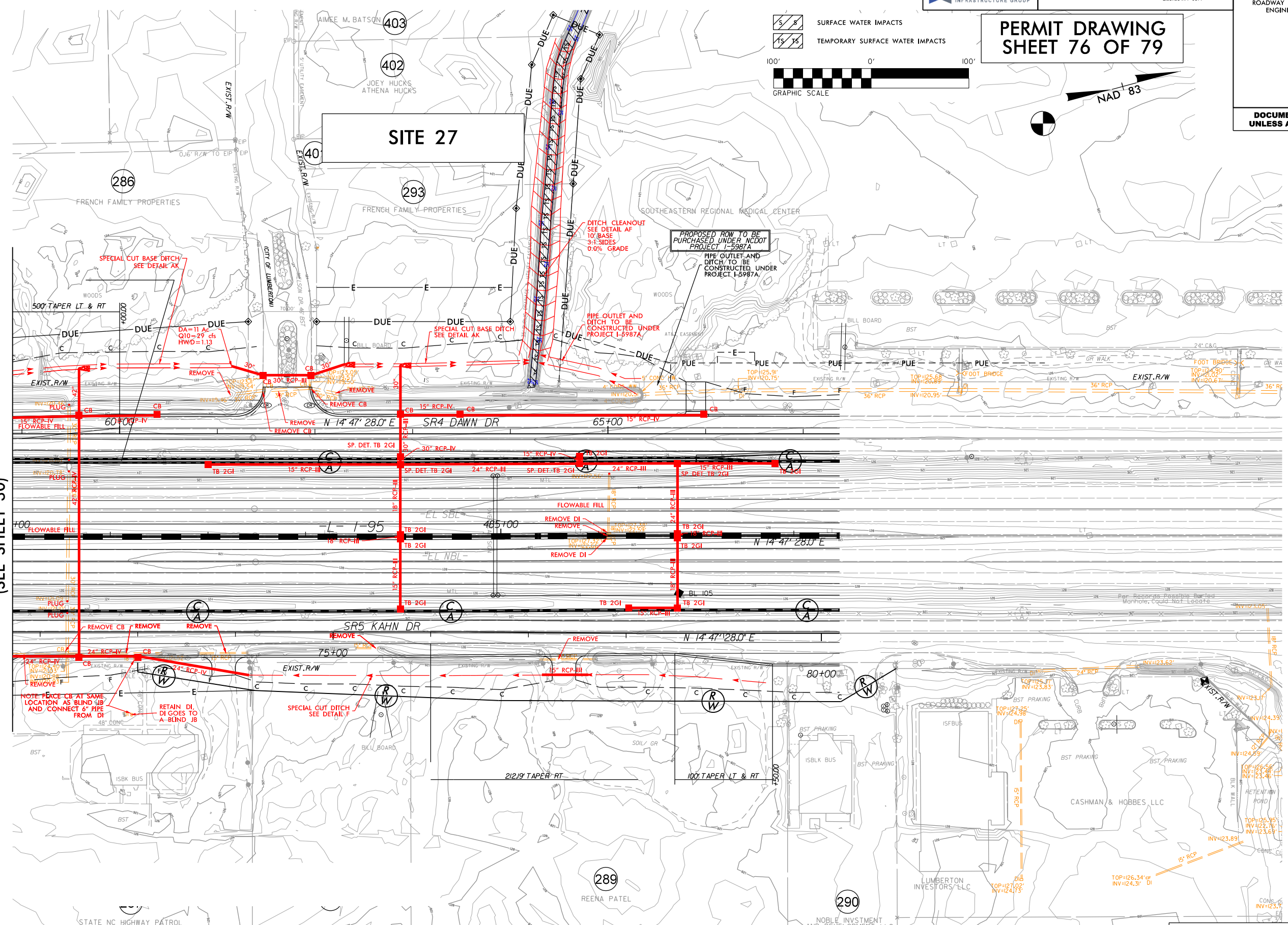
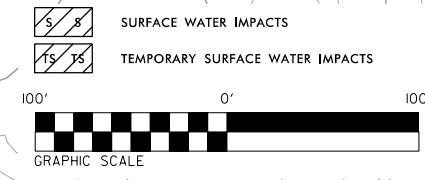
8/17/99
DATE: 8/17/99
DRAWN BY: K. King
CHECKED BY: J. King
PROJECT: 1-6064_HYD.prm_PlanSheets-WEL_contours.dgn
FILE: \\server\kingdir\pww\ice-eng\pww\1-6064_HYD.prm_PlanSheets-WEL_contours.dgn



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License #: F-0377

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING SHEET 76 OF 79



MATCHLINE -L- STA. 480+00.00
(SEE SHEET 30)

FOR -SR4- PROFILE SEE SHTS.75 THRU 76
FOR -L- PROFILE SEE SHT.53
FOR -SR5- PROFILE SEE SHTS.78 THRU 79

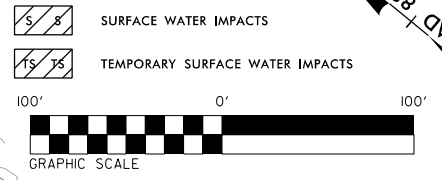
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CHECKED BY: K. King
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Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27609
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO. 1-6064/1-5879	SHEET NO. 34
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

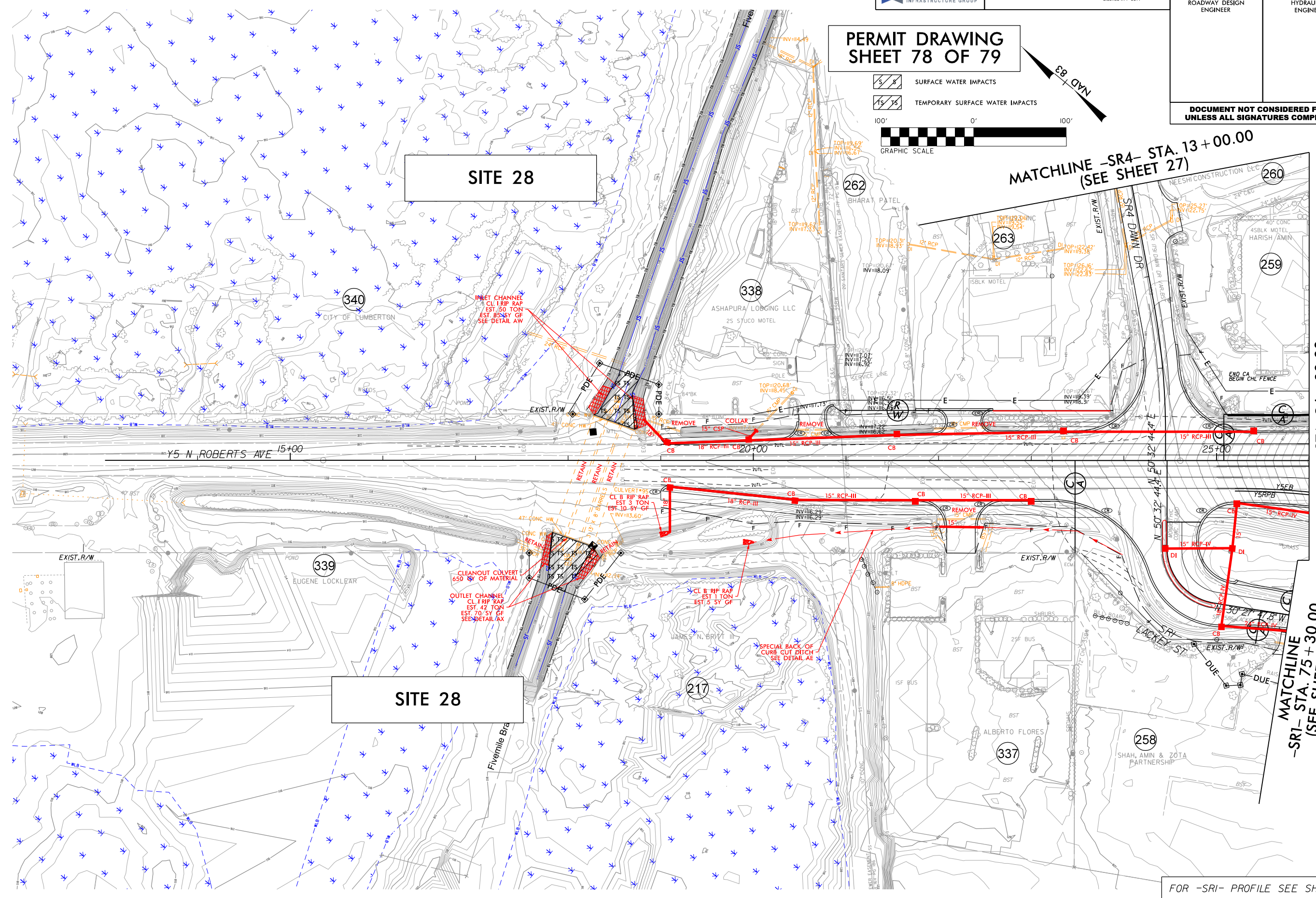
PERMIT DRAWING SHEET 78 OF 79



MATCHLINE -SR4- STA. 13+00.00
(SEE SHEET 27)

MATCHLINE -Y5- STA. 26+00.00
(SEE SHEET 27)

MATCHLINE -SR1- STA. 75+30.00
(SEE SHEET 27)



SITE 28

SITE 28

FOR -SR1- PROFILE SEE SHT.71
FOR -Y5- PROFILE SEE SHT.63
FOR -SR4- PROFILE SEE SHT.74

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	-Y1RPA- 22+85 Rt	Ditch				< 0.01						
2	-Y1RPD- 18+00 Lt	Pipe	< 0.01			0.04						
3	-SR06- 10+66 Rt	Bank Stabilization						< 0.01		21		
4	-L- 134+45 Rt	2@ 48" Pipe (PSH 8A)						< 0.01	0.02	27	43	
5	-L- 168+95 Rt	Ditch Cleanout (PSH 10A)							< 0.01		42	
6	-L- 212+15, 231+25 Lt	Ditch Cleanout	0.05		0.15	0.15						
7	-L- 253+65 Lt	Ditch Cleanout	0.01		< 0.01	0.04						
8	-L- 266+80 to 275+37 Lt	Roadway Fill	0.54			0.23		< 0.01				
9	-Y2RPD- 18+50 to 19+93 Rt	Roadway Fill	0.07		0.02			0.02				
10	-L- 290+55 to 302+66 Lt	Roadway Fill	0.12		< 0.01	0.15		< 0.01				
10	-L- 290+55 to 302+66 Lt	Trenchless Pipe Installation			0.07							
11	-SR7- 59+17 to 60+12 Rt.	Roadway Fill							< 0.01			
12	-L- 306+20 Lt	Ditch Cleanout (PSH 20A)	< 0.01		0.06	0.08						
13	-L- 323+70 to 329+00 Lt	Roadway Fill						0.12	0.05			
14	-SR12- 19+80	Roadway Fill						0.05	0.01			
15	-SR12- 20+53	Roadway Fill						0.05	< 0.01			
16	-SR12- 23+64	Roadway Fill						< 0.01	< 0.01			
17	-SR12- 28+34	Roadway Fill/Ditch Cleanout						0.04	0.04			
18	-SR12- 33+59	Roadway Fill	0.04		< 0.01	0.02						
19	-L- 347+48 to 361+20	Roadway Fill/Bridge	0.74		0.09	0.48	0.16	< 0.01	0.02	50	112	
20	-L- 361+66 to 362+99 Lt	Roadway Fill	0.04			0.01						
21	-Y4RPC- 13+98 to 15+73 Rt	Roadway Fill				0.02						
22	-Y4- 18+49 to 20+04 Lt	Roadway Fill	0.01			0.03						
23	-L- 440+00	Culvert						0.13	0.01	501	39	
24	-L- 440+81 to 450+15	Culvert	0.41		0.26	0.22		0.14	0.02	509	91	
25	-L- 448+66 to 454+07 Lt	Roadway Fill	0.23			0.11						
26	-L- 453+93 to 454+24 Rt	Roadway Fill				< 0.01						
27	-SR4- 65+25 Lt	Ditch Cleanout							0.07			
28	-Y5- 18+33	Bank Stabilization						< 0.01		70		
28	-Y5- 18+33	Culvert							0.08		41	
TOTALS*:			2.28		0.65	1.59	0.16	0.59	0.34	1178	368	0

*Rounded totals are sum of actual impacts

NOTES:

--Sites 8, 9, 10, 13, 14, 15, 16, 17 and 27 are surface waters verified as open water (ponds or jurisdictional ditches/tributaries).

--Site 17 permanent bent impacts calculated using 3' width by the length of the bent within the JS feature.

NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

8/2/2022

Robeson County

I-6064/I-5897

49067.1.2, 49067.1.3 & 53079.2.1

SHEET

79

OF

79