



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

May 14, 2025

U.S. Army Corps of Engineers
Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

N.C. Division of Water Resources
Transportation Permitting Branch
1617 Mail Service Center
Raleigh, NC 27699-1617

ATTN: Mr. Eric Alsmeyer
NCDOT Coordinator

Mr. Rob Ridings
NCDOT Coordinator

Subject: Modification Request for the Phased Section 404 Individual Permit and Section 401 Individual Water Quality Certification, Neuse River Riparian Buffer Authorization for the construction of the Triangle Expressway Southeast Extension from NC-55 Bypass in Apex to I-40, Wake and Johnston Counties. TIP Nos. R-2721, R-2828, and R-2829. Federal Aid Project No. 0540047.

Reference: USACE Section 404 Authorization SAW-2009-02240, issued October 24, 2019, modified February 4, 2020 (corrected revision issued February 7, 2020), April 29, 2020, January 7, 2021, March 19, 2021, March 3, 2022, July 1, 2022, September 13, 2022, February 17, 2023, June 21, 2023, July 19, 2023, August 4, 2023, August 11, 2023, December 13, 2023, January 22, 2024, May 29, 2024, October 28, 2024, and December 13, 2024.

NCDWR Water Quality Certification Number 4179 and Neuse River Riparian Buffer Authorization, issued February 15, 2019, modified January 30, 2020, April 20, 2020 (corrected revision issued April 23, 2020), June 1, 2020, December 29, 2020, March 9, 2021, April 8, 2021, November 1, 2021, May 18, 2022, July 22, 2022, February 15, 2023, July 19, 2023, August 4, 2023, August 11, 2023, June 19, 2023, December 12, 2023, January 22, 2024, May 29, 2024, October 7, 2024, and December 10, 2024.

Dear Sirs:

As you are aware, the North Carolina Department of Transportation (NCDOT) applied for a phased Section 404 Individual Permit, Section 401 Individual Water Quality Certification (WQC), Neuse River Riparian Buffer Authorization, Non-404 Jurisdictional Wetlands and Waters Permit for the subject project in September 2018. The project, also known as Complete 540, encompasses three NCDOT Transportation Improvement Program (TIP) projects: R-2721 (NC-55 Bypass to US-401), R-2828 (east of US-401 to I-40 Interchange) and R-2829 (east of I-40/I-42 to US 64/264). Revised permit applications were submitted in February 2019 and the NC Division of Water Resources (NCDWR) Riparian Buffer Authorization, 401 WQC, and US Army Corps of Engineers (USACE) 404 Permit were issued in February and October of

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Website: www.ncdot.gov

Location:
2501 AERIAL CENTER PARKWAY
SUITE 200
MORRISVILLE, NC 27560

2019. Additionally, NCDOT received a modified 401 WQC for the Complete 540 Project on January 30, 2020, April 20, 2020 (corrected revision issued April 23, 2020), June 1, 2020, December 29, 2020, March 9, 2021, April 8, 2021, November 1, 2021, May 18, 2022, July 22, 2022, February 15, 2023, July 19, 2023, August 4, 2023, August 11, 2023, June 19, 2023, December 12, 2023, January 22, 2024, May 29, 2024, October 7, 2024, and December 10, 2024 from the NC Division of Water Resources (NCDWR) and a modified Department of the Army authorization #SAW-2009-02240 on February 4, 2020 (corrected revision issued February 7, 2020), April 29, 2020, January 7, 2021, March 19, 2021, March 3, 2022, July 1, 2022, September 13, 2022, February 17, 2023, June 21, 2023, July 19, 2023, August 4, 2023, August 11, 2023, December 13, 2023, January 22, 2024, May 29, 2024, May 29, 2024, October 28, 2024, and December 13, 2024.

We are requesting a permit modification to the Section 404 Authorization SAW-2019-02240 and to modify the existing 401 WQC, Permit Number 20181249. The request is due to proposed changes to jurisdictional resource impacts.

IMPACTS TO JURISDICTIONAL RESOURCES

Revised permit drawings include the station number, jurisdictional feature name, and associated impact type for each location. All impacts are located within the Neuse River Basin (HUC 03020201). NCDOT has submitted updated drawings for locations where temporary excavation is proposed within the previously approved mechanized clearing limits, for the purposes of the temporary stream diversion channels necessary during construction. These areas are depicted with hatching superimposed over the existing mechanized clearing boundaries. A corresponding footnote is provided in the summary table to indicate the estimated impact area at each site.

During the Interagency Concurrence Point 4C meeting, it was decided that the buffers and wetlands at Site 3 (along -L- 979+25 LT) would be considered a total take, however the *“plan view hatching limits are only what is necessary for construction.”* (per record 4C meeting minutes). During field coordination with U.S. Army Corps of Engineers and N.C. Division of Water Resources in April 2025, it was discovered that a previously unhatched area was necessary for construction as the installation of a Clean Water Diversion was proposed in that location on the Highway Erosion Control plans. The request was made to show the hatching on the plans to the limits of the Right-of-Way to facilitate that construction (already underway at the time of site visit). There are no jurisdictional impact changes due to this revision.

All proposed revisions are confined to the limits of previously authorized mechanized clearing and do not result in additional jurisdictional impacts. Similarly, because the modifications occur within areas of existing permanent impacts, no increase in permanent impact acreage has occurred. Detailed site-specific revisions are outlined below.

Roadway Site 3 wetland impacts

- Temporary excavation: 0.01 ac (accounted for previously within the portion of the wetland footprint mitigated for as permanent loss of function)

Roadway Site 15 wetland impacts

- Temporary excavation: 0.01 ac (accounted for previously within the mechanized clearing impacts footprint)

Roadway Site 23 wetland impacts

- Temporary excavation: 0.032 ac (accounted for previously within the mechanized clearing impacts footprint)

Roadway Site 25 wetland impacts

- Temporary excavation: 0.007 ac (accounted for previously within the mechanized clearing

impacts footprint)

Roadway Site 29A wetland impacts

- Temporary excavation: 0.005 ac (accounted for previously within the mechanized clearing impacts footprint)

Roadway Site 33 wetland impacts

- Temporary excavation: 0.001 ac (accounted for previously within the mechanized clearing impacts footprint)

REGULATORY APPROVALS

Section 404

We are requesting an in-field permit modification to the USACE Permit Number SAW-2009-02240 Section 404 Individual Permit for the above-described activities.

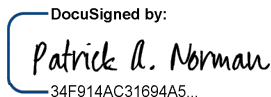
Section 401 and Riparian Buffer Authorization

We are requesting an in-field permit modification to the WQC Permit Number 4179 Section 401 Individual WQC and the Neuse Riparian Buffer Authorization.

The individual permit modification package for the Complete 540 project (STIP Projects R-2721, R-2828, and R-2829) is available at <https://xfer.services.ncdot.gov/pdea/PermApps/>

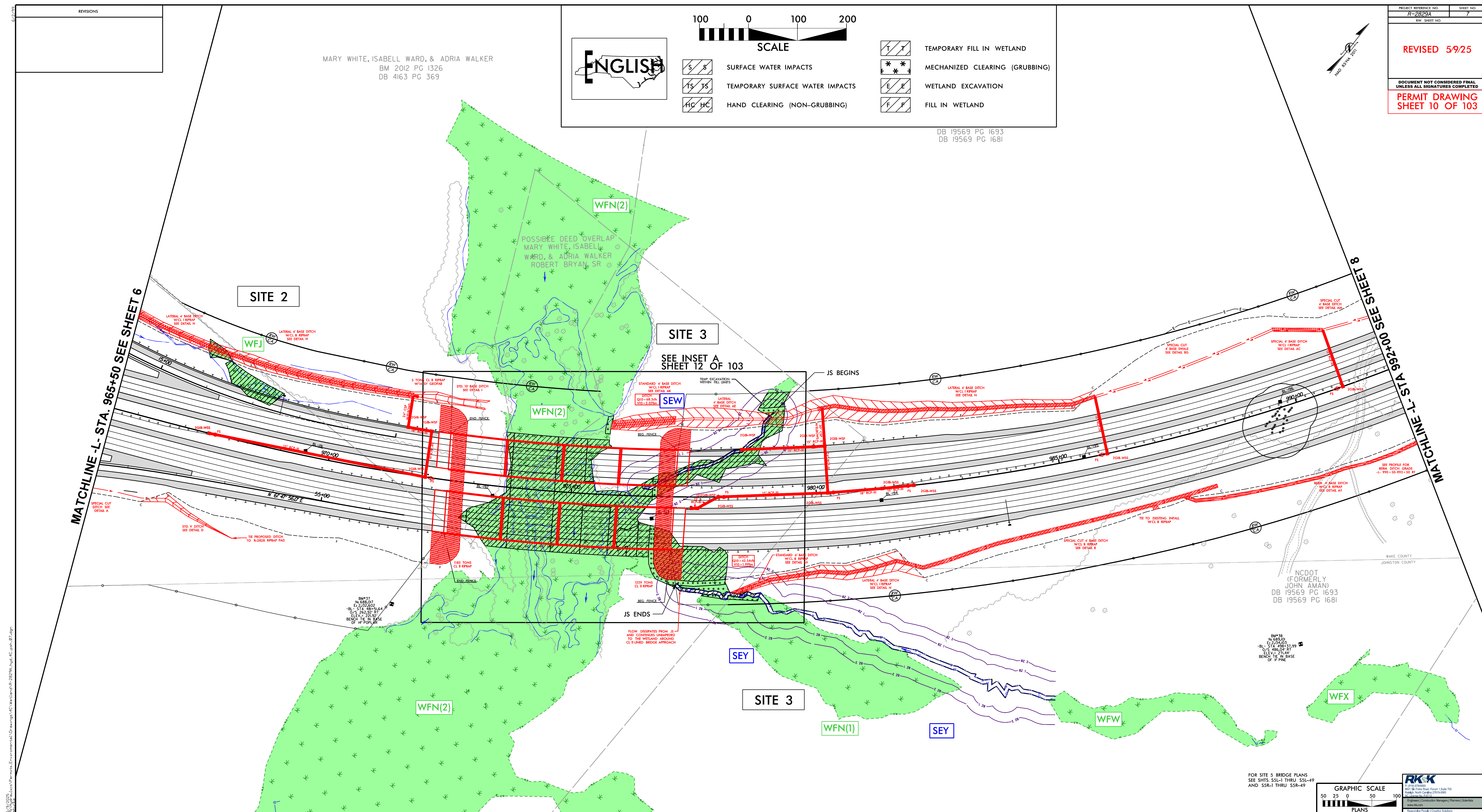
Thank you for your assistance with this project. If you have any questions or need additional information, please contact Deanna Riffey at driffey@ncdot.gov or 919-707-6151.

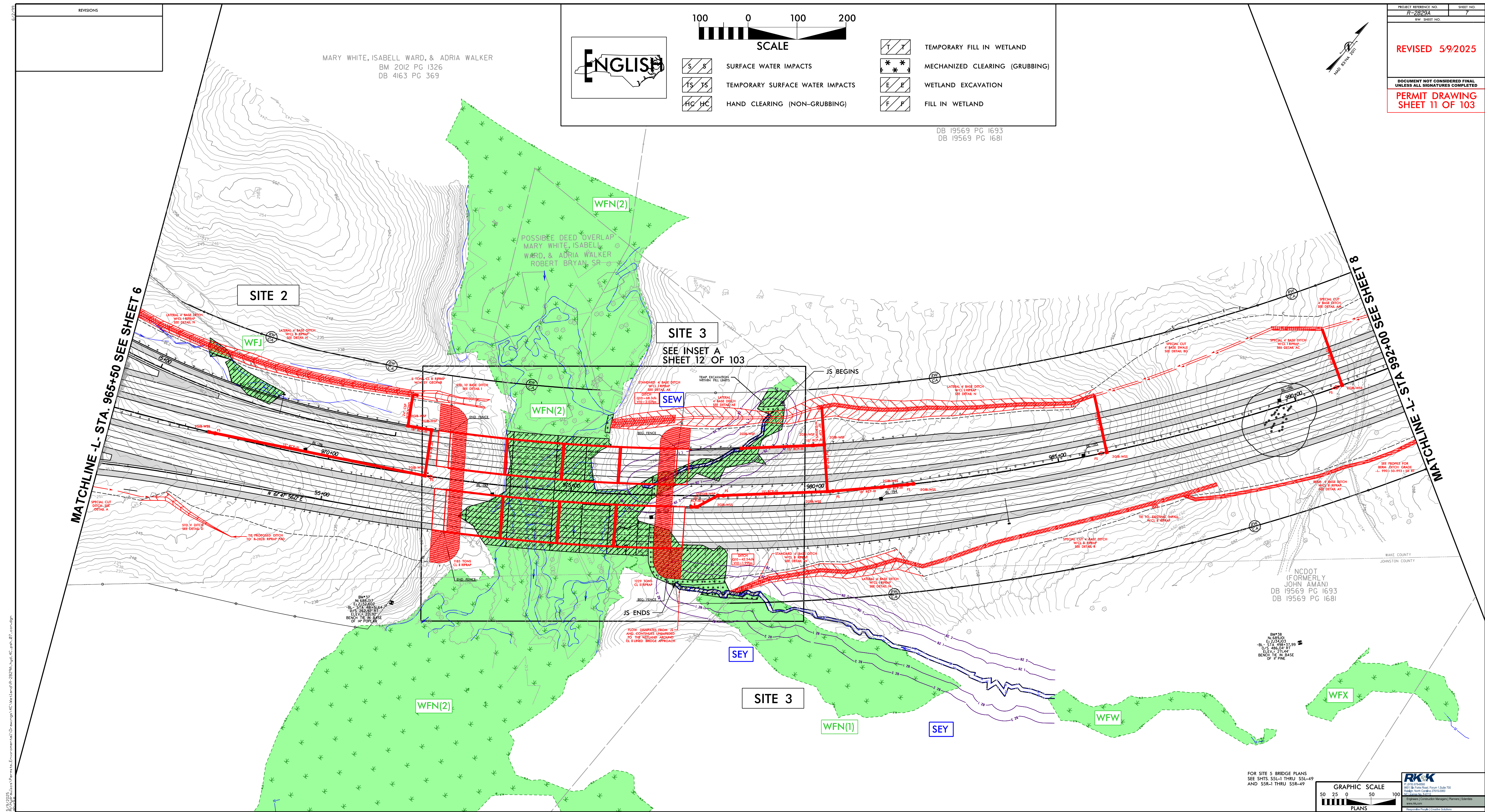
Sincerely,

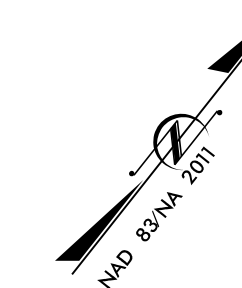
DocuSigned by:

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Patrick A. Norman, P.E.
Chief Engineer
North Carolina Turnpike Authority

cc: NCDOT Permit Application Standard Distribution List





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PERMIT DRAWING
SHEET 44 OF 103

NC DEPARTMENT OF TRANSPORTATION



SITE 15 WGR

SWALE
V10=1.9 FT/S
Q10=3.6 CFS

SEE INSET A

SEE INSET 1

SFR **WGR**

SITE 15 C300 II
252 T
W/T

SITE 15

**MATCHLINE -L1- STA. 1089+00
SEE SHEET 13**

**MATCHLINE -L1- STA. 1100+50
SEE SHEET 15**

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ENGLISH

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

50 0 50 100
 SCALE
 25 0 25 50
 SCALE FOR INSET



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Revised Submittal May 14, 2025

PROJECT REFERENCE NO.
R-2829A

SHEET NO.
14

RW SHEET NO.

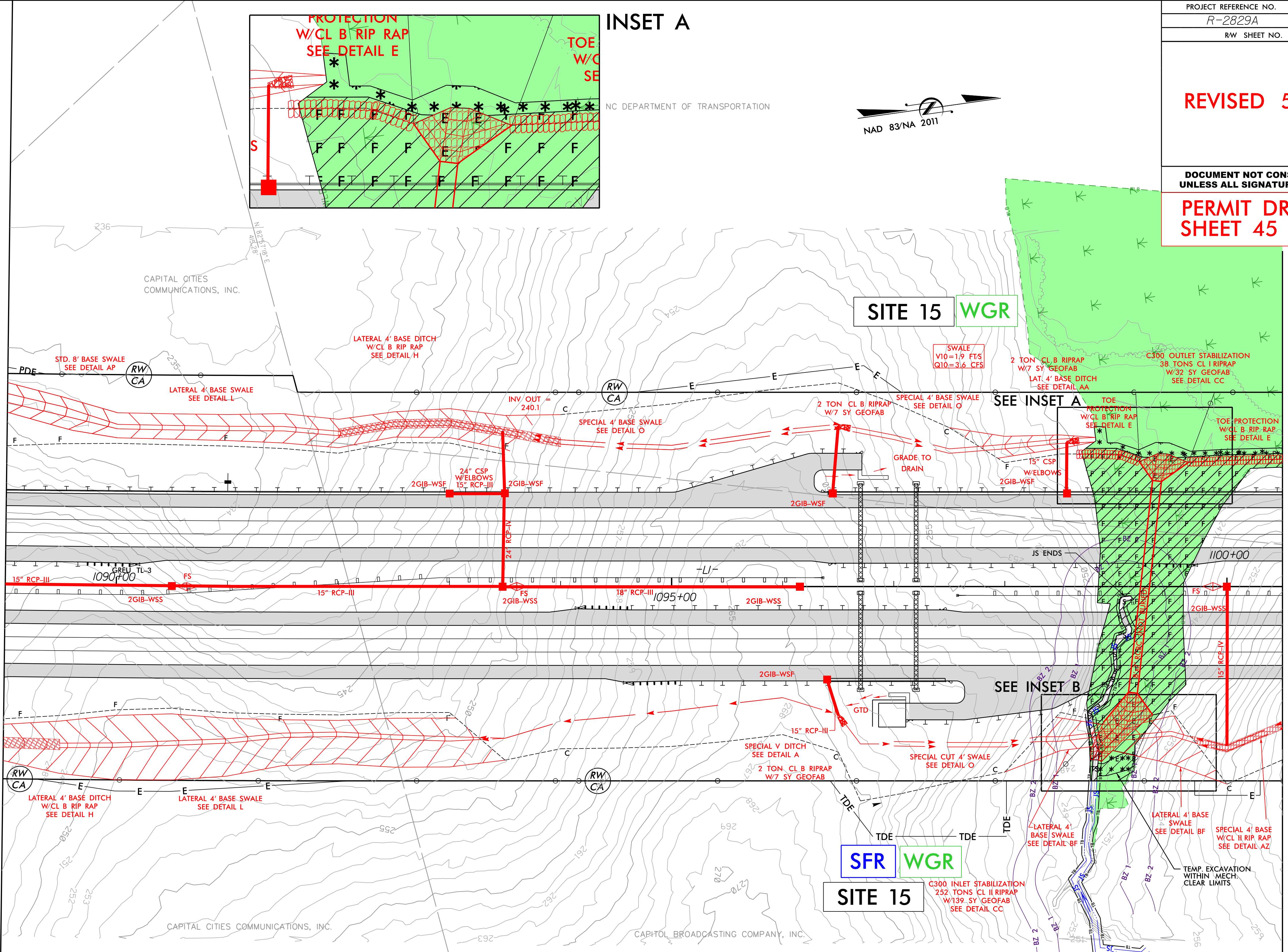
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PERMIT DRAWING
SHEET 45 OF 103

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SEE SHEET 13

MATCHLINE -L1- STA. 1100+50
SEE SHEET 15



ENGLISH

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SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

WETLAND EXCAVATION

FILL IN WETLAND

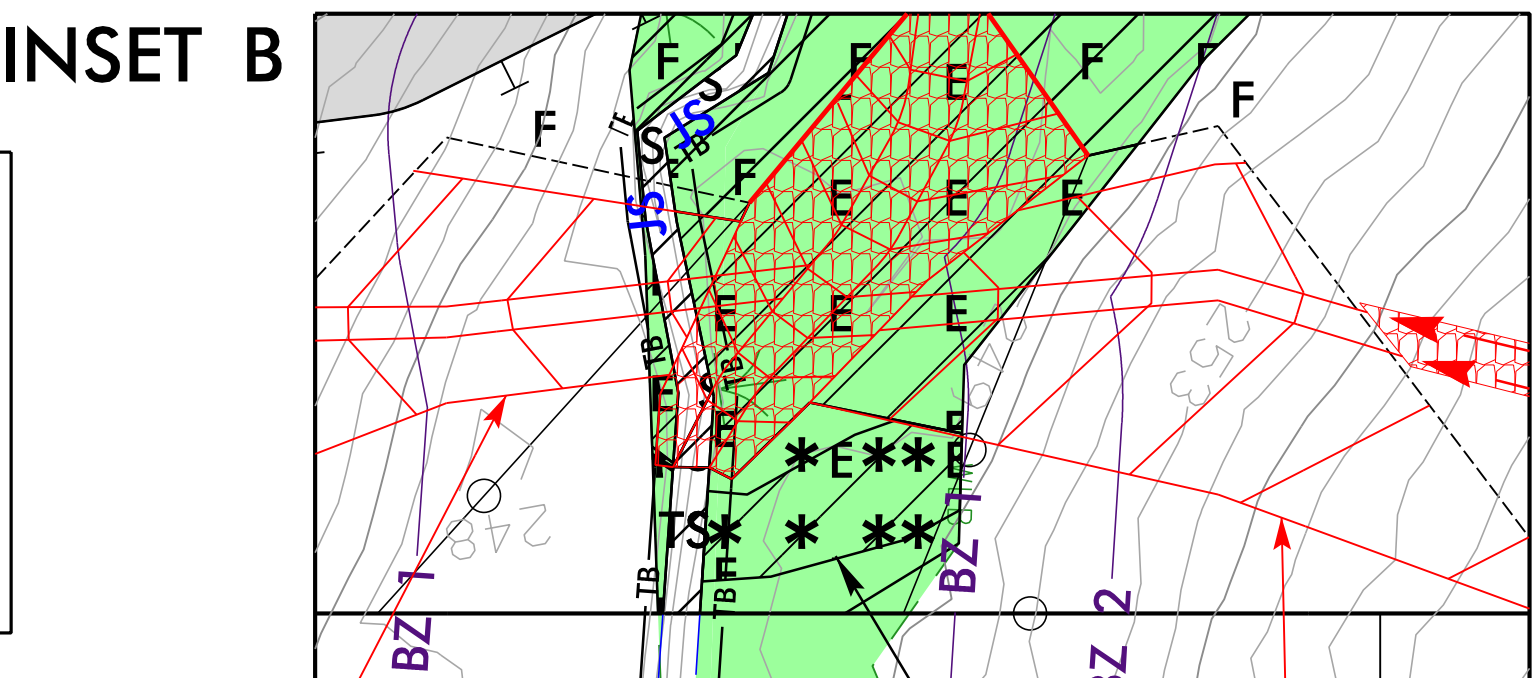
MECHANIZED CLEARING (GRUBBING)

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SCALE

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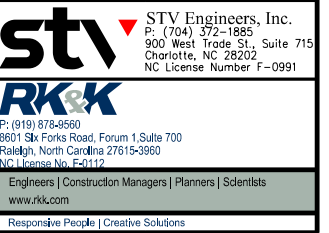
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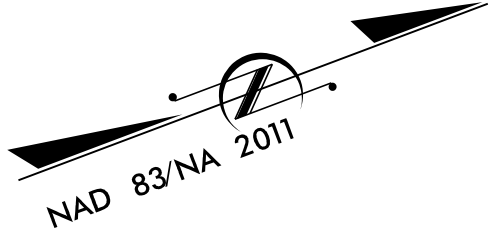
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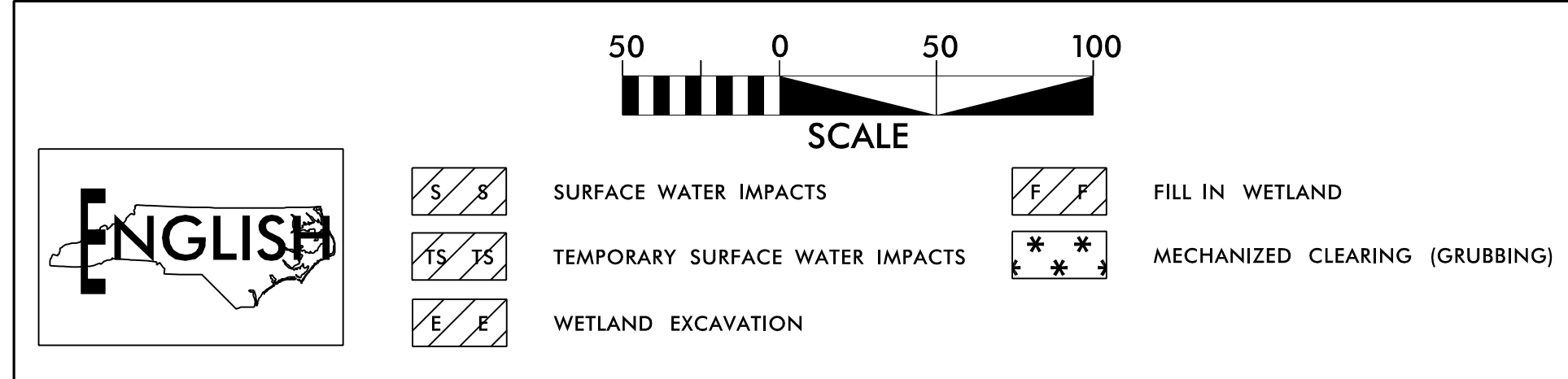
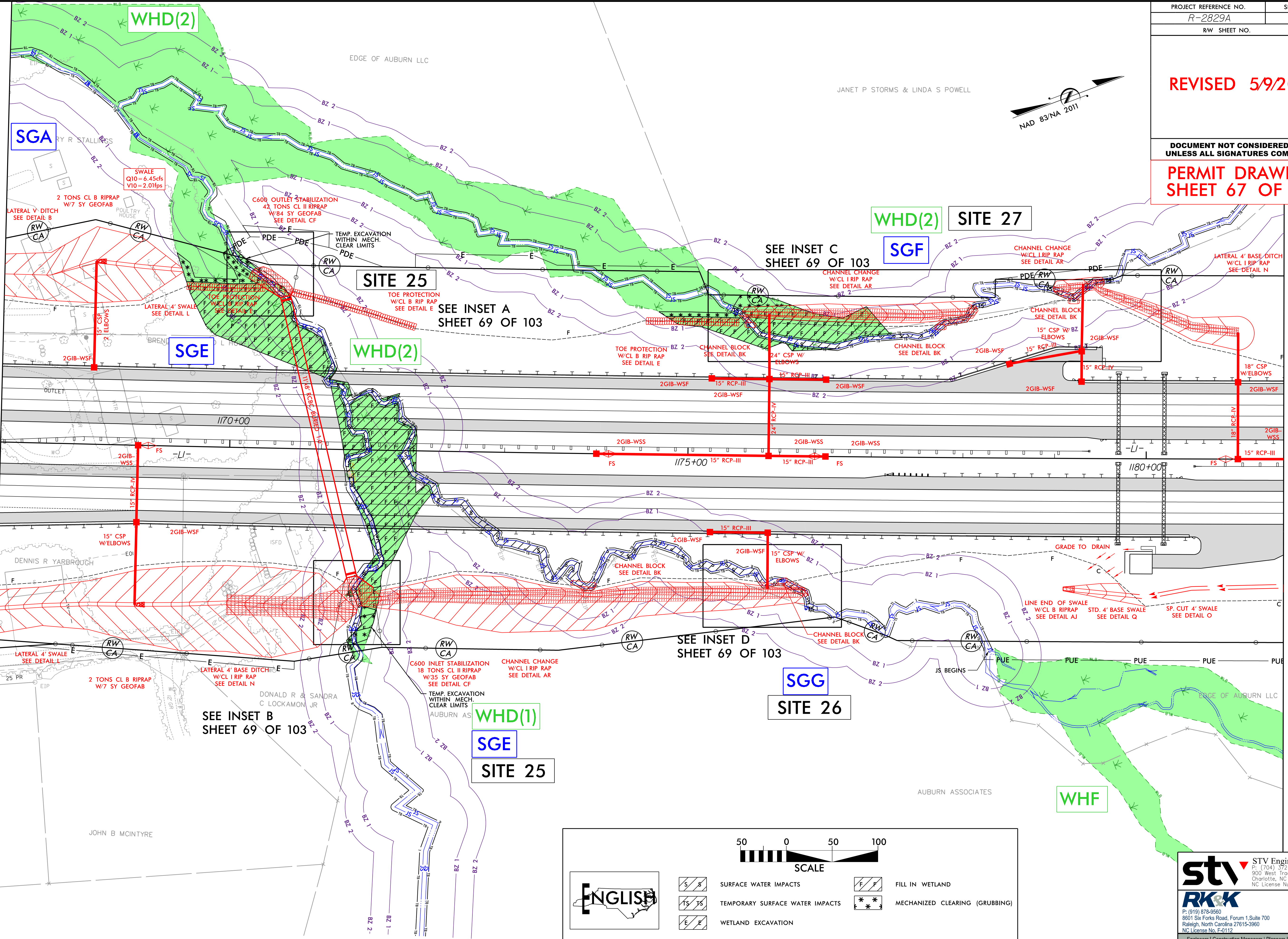




JANET P. STORMS & LINDA S. POWELL

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SEE SHEET 18

MATCHLINE -L1- STA. 1181+50
SEE SHEET 20

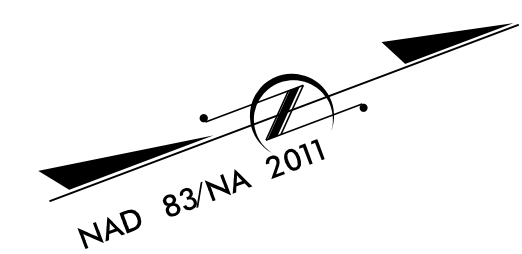


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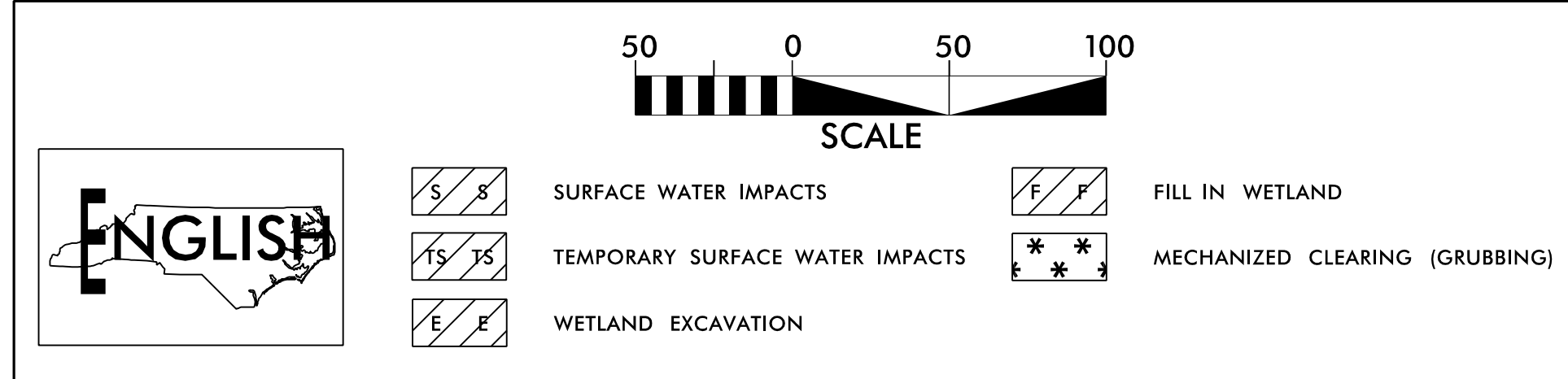
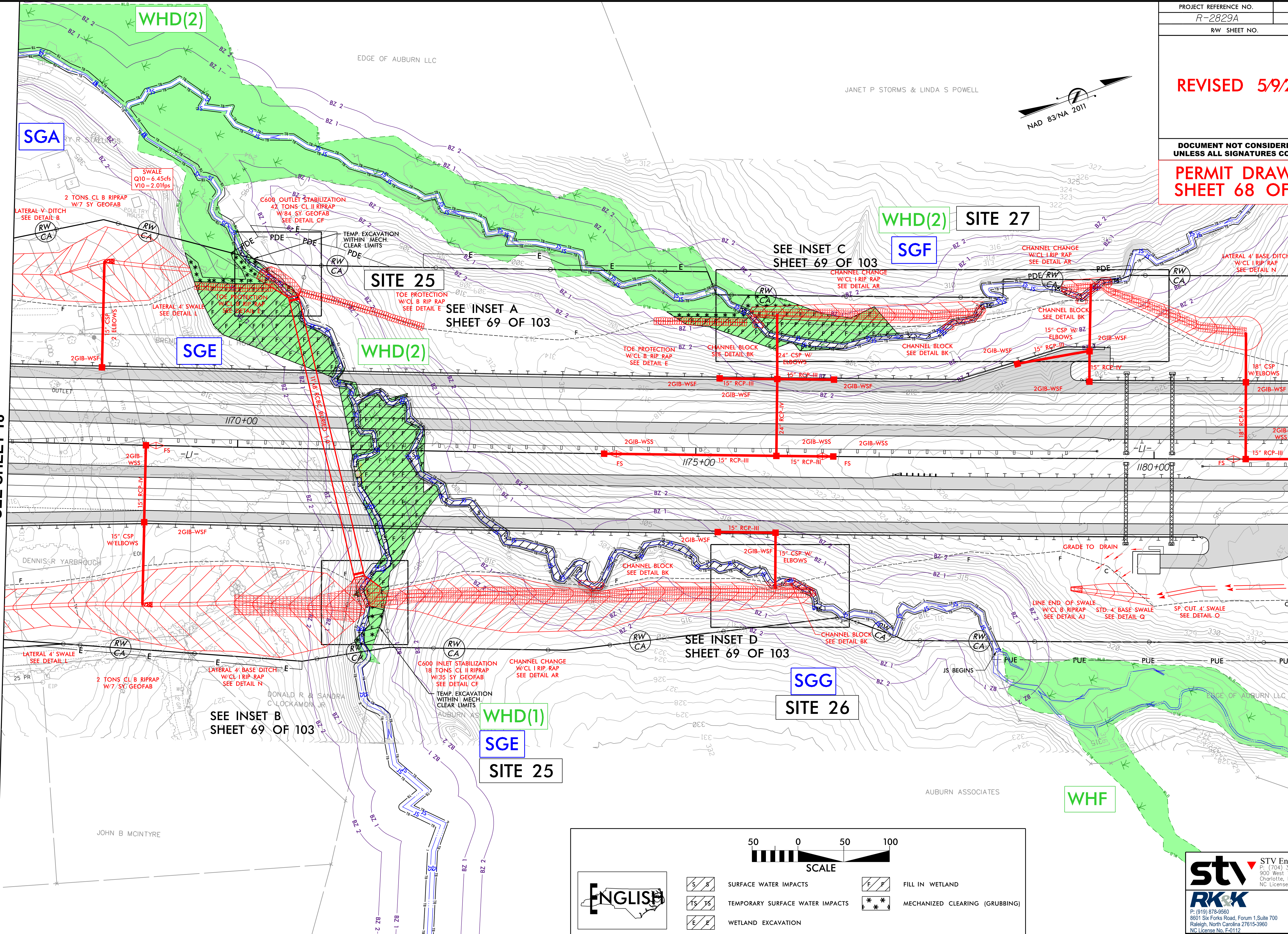
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MATCHLINE -L1- STA. 1181+50
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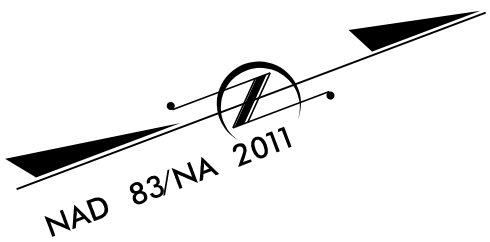
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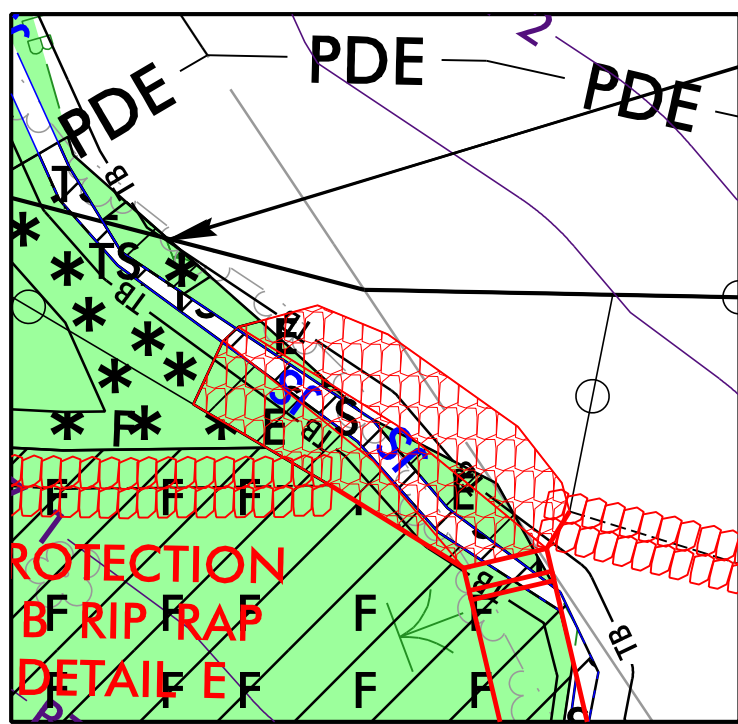
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PERMIT DRAWING SHEET 69 OF 103	

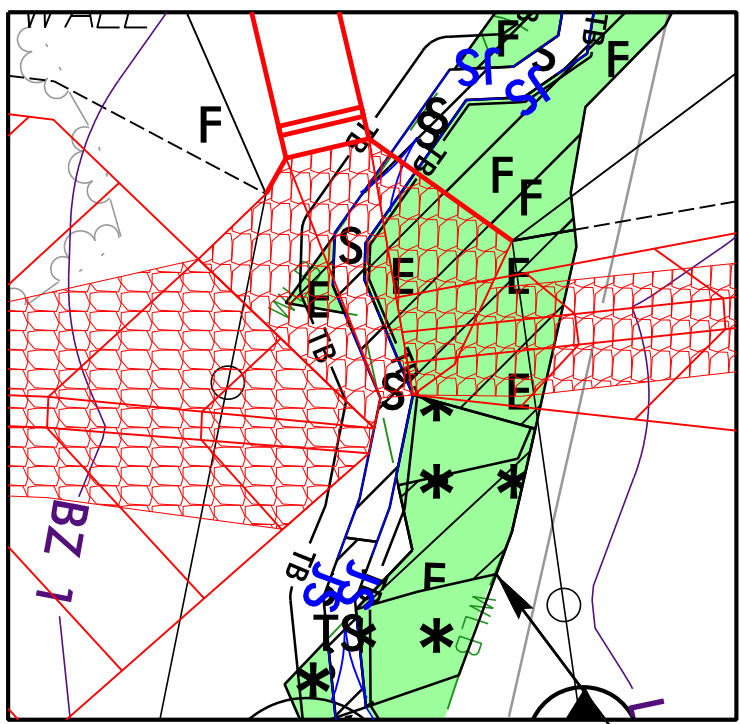


INSET A



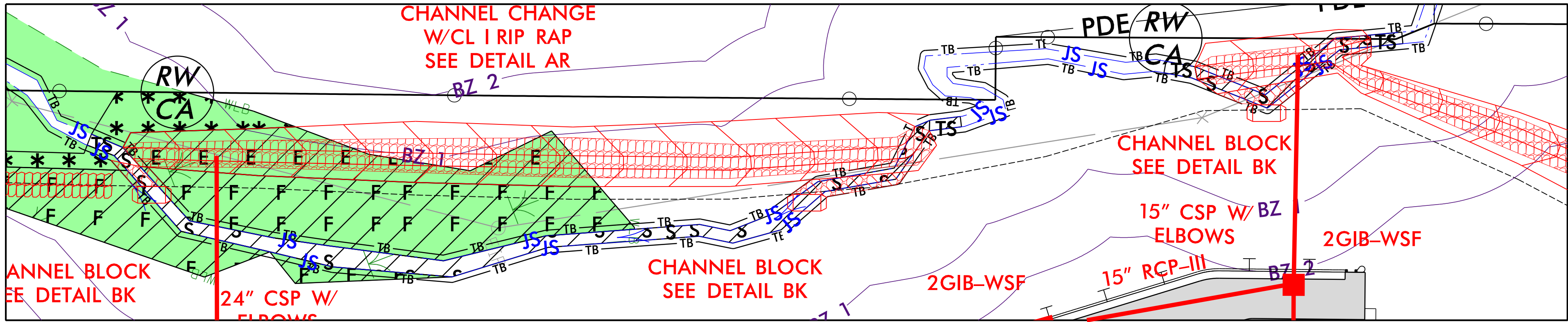
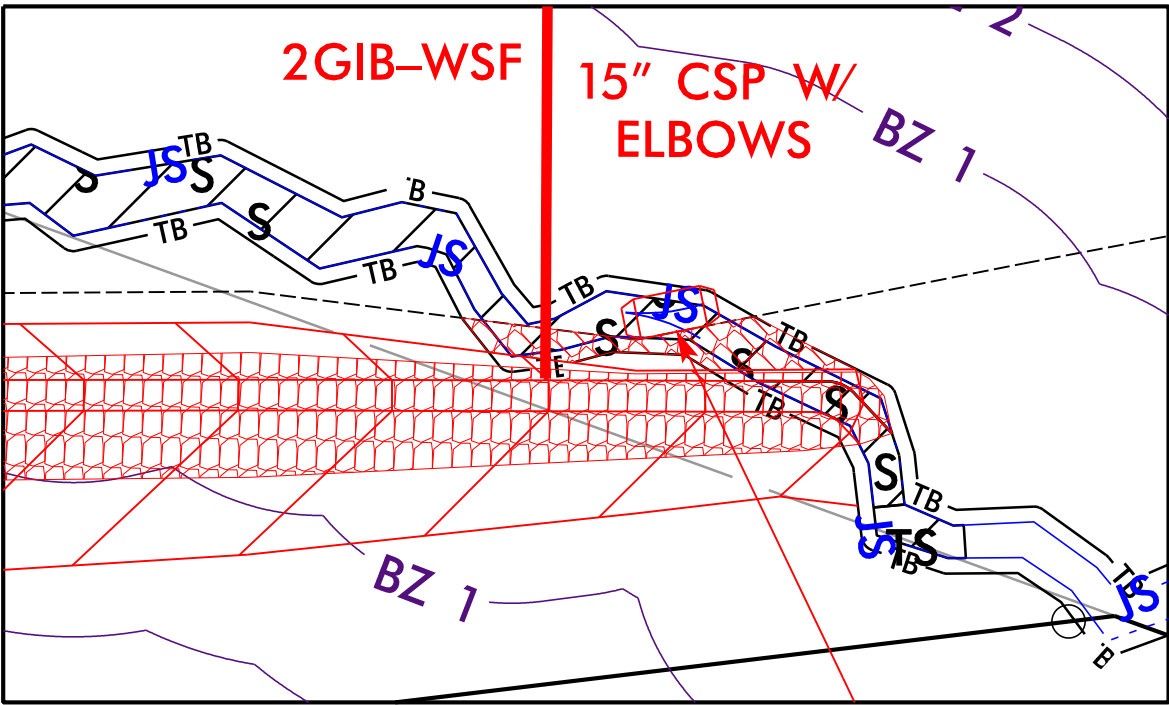
TEMP. EXCAVATION
WITHIN MECH.
CLEAR LIMITS

INSET B

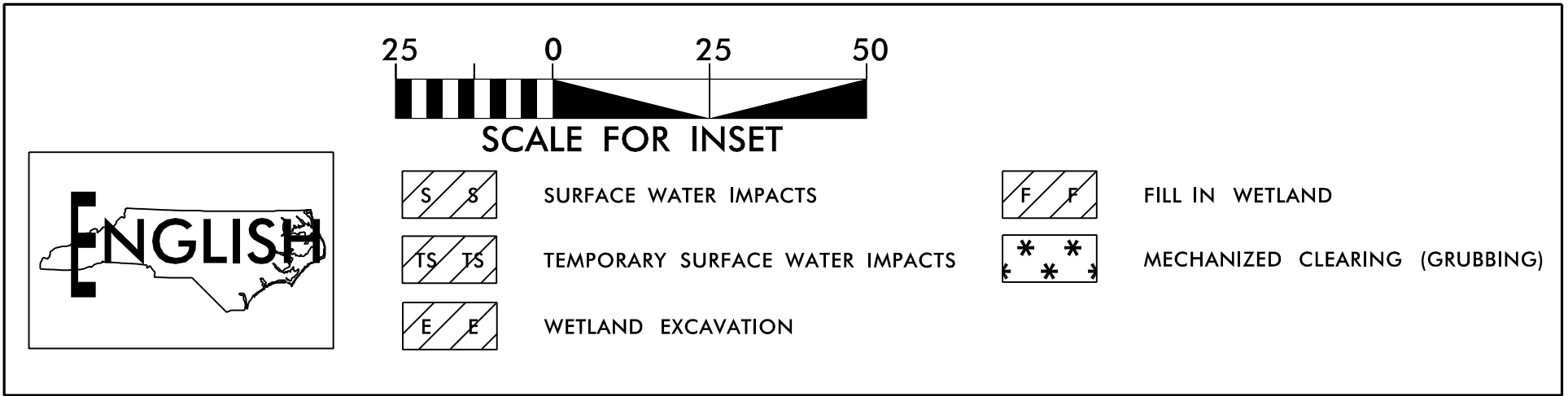


TEMP. EXCAVATION
WITHIN MECH.
CLEAR LIMITS

INSET D



INSET C



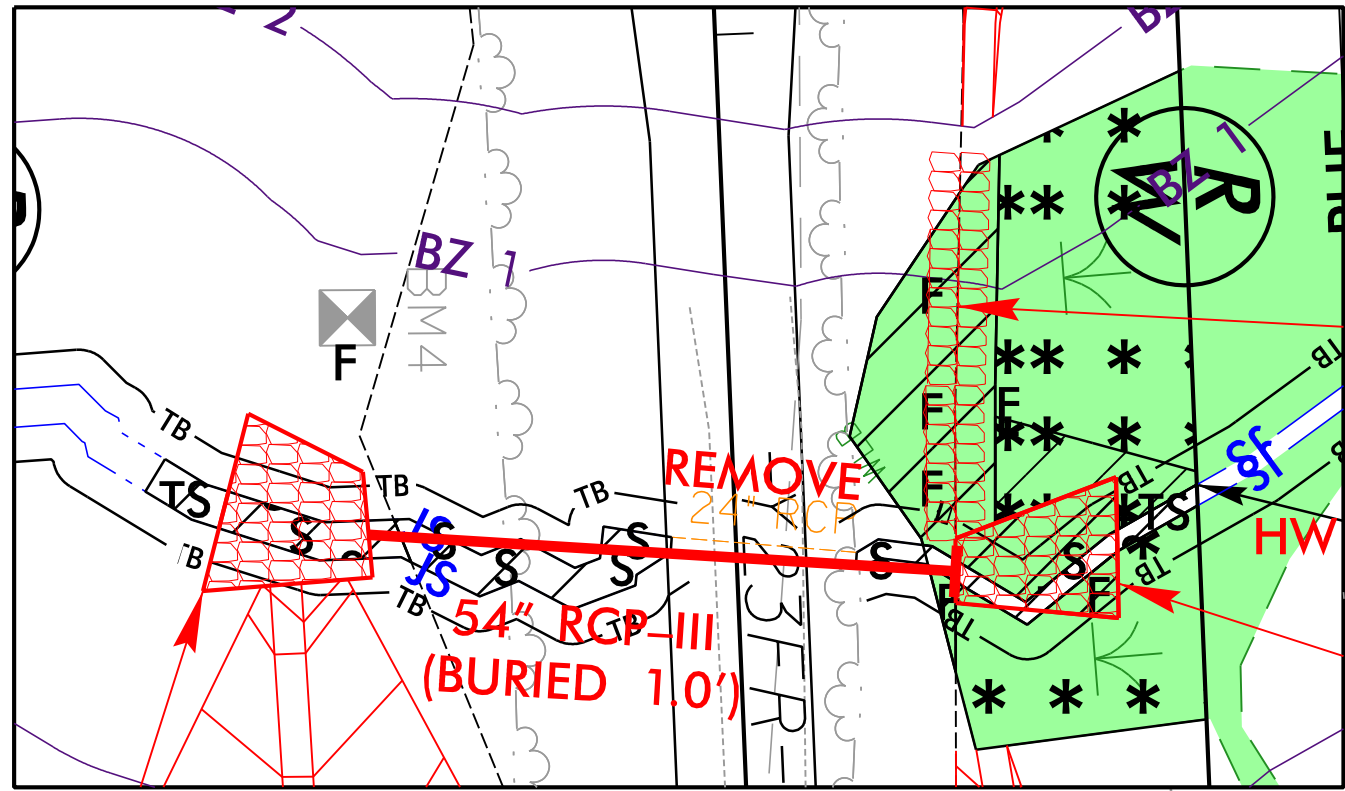
stv
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NC License Number F-0991

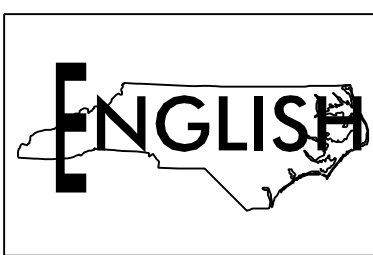
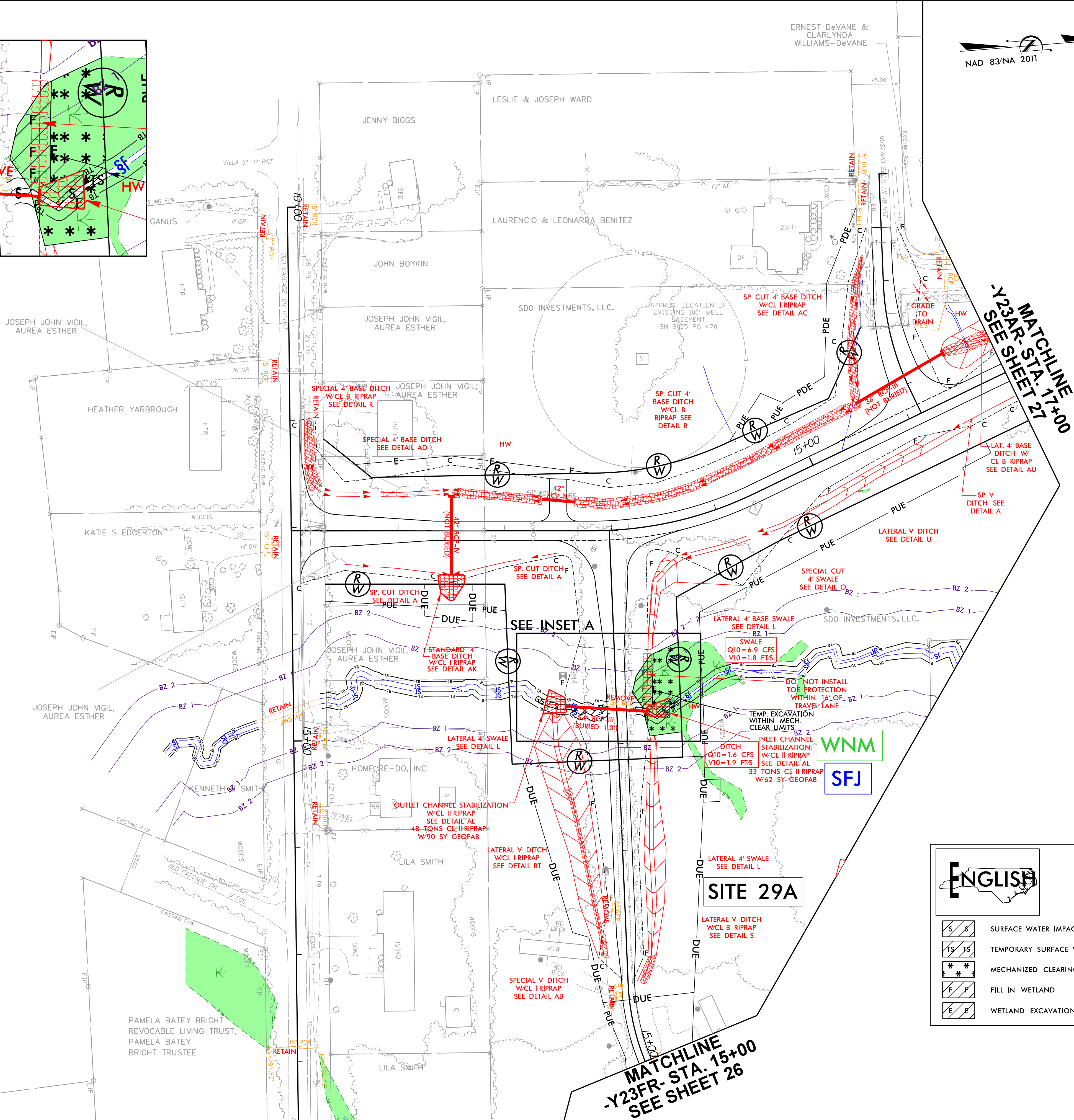
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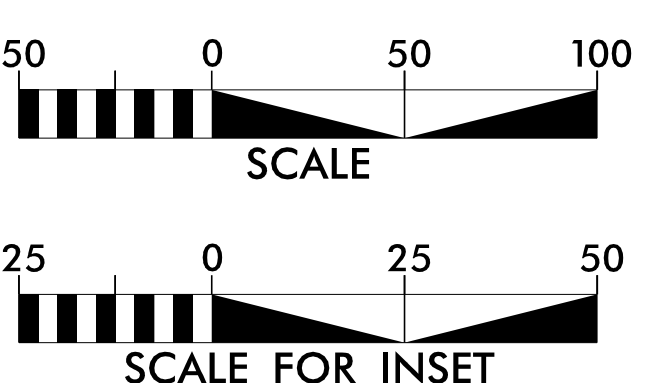
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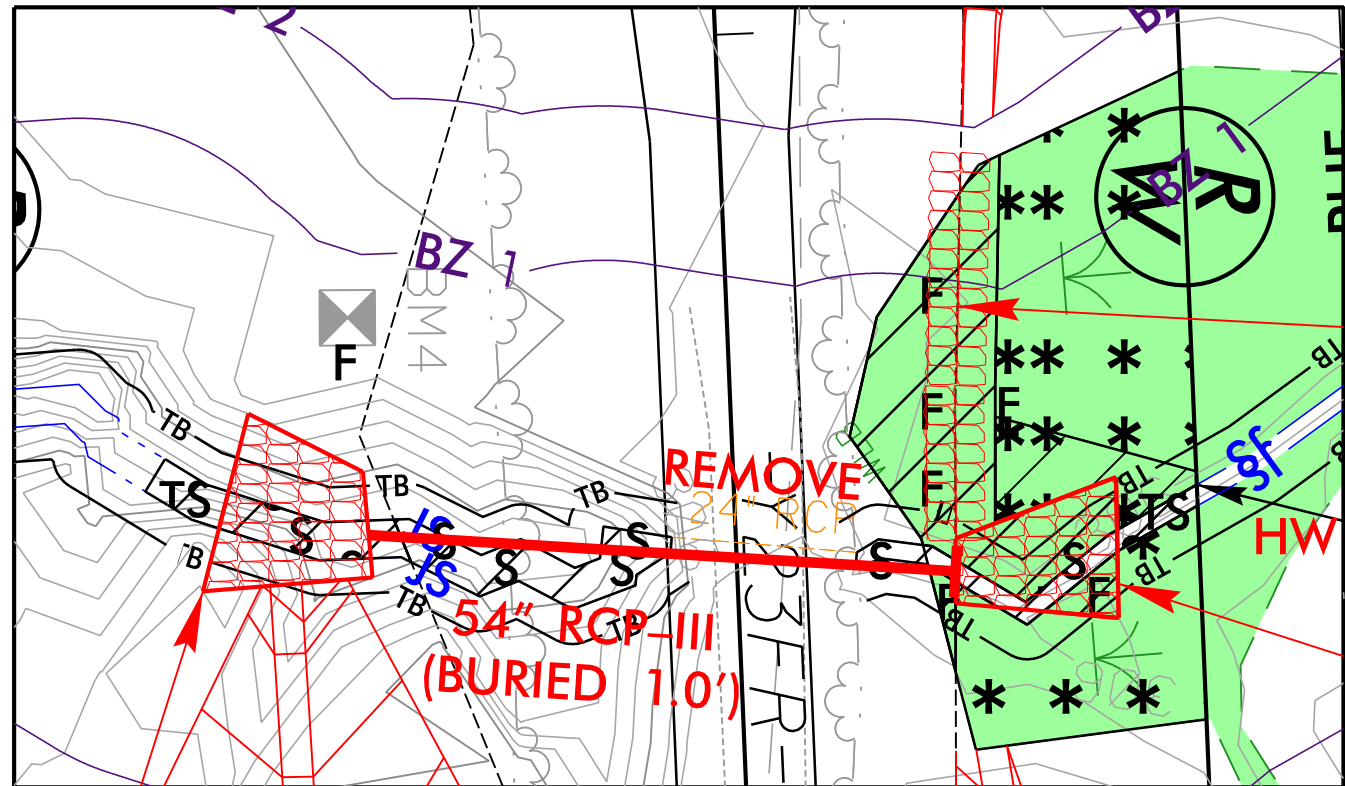
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| | SURFACE WATER IMPACTS |
| | TEMPORARY SURFACE WATER IMPACTS |
| | MECHANIZED CLEARING (GRUBBING) |
| | FILL IN WETLAND |
| | WETLAND EXCAVATION |



PROJECT REFERENCE NO.	SHEET NO.
R-2829A	31
R/W SHEET NO.	
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PERMIT DRAWING SHEET 84 OF 103	



INSET A



MATCHLINE
-Y23FR- STA. 17+00
SEE SHEET 27

MATCHLINE
-Y23FR- STA. 15+00
SEE SHEET 26

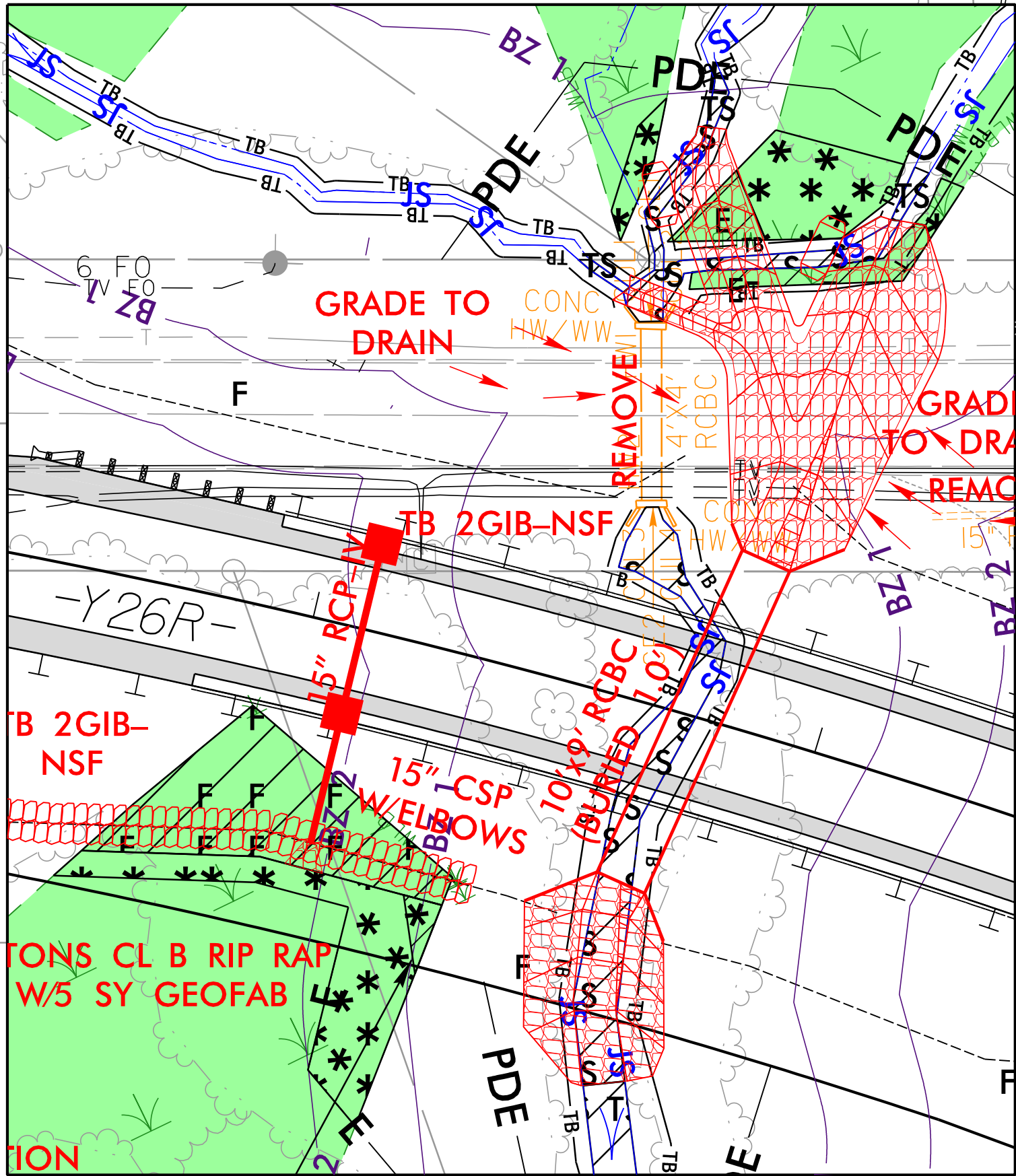
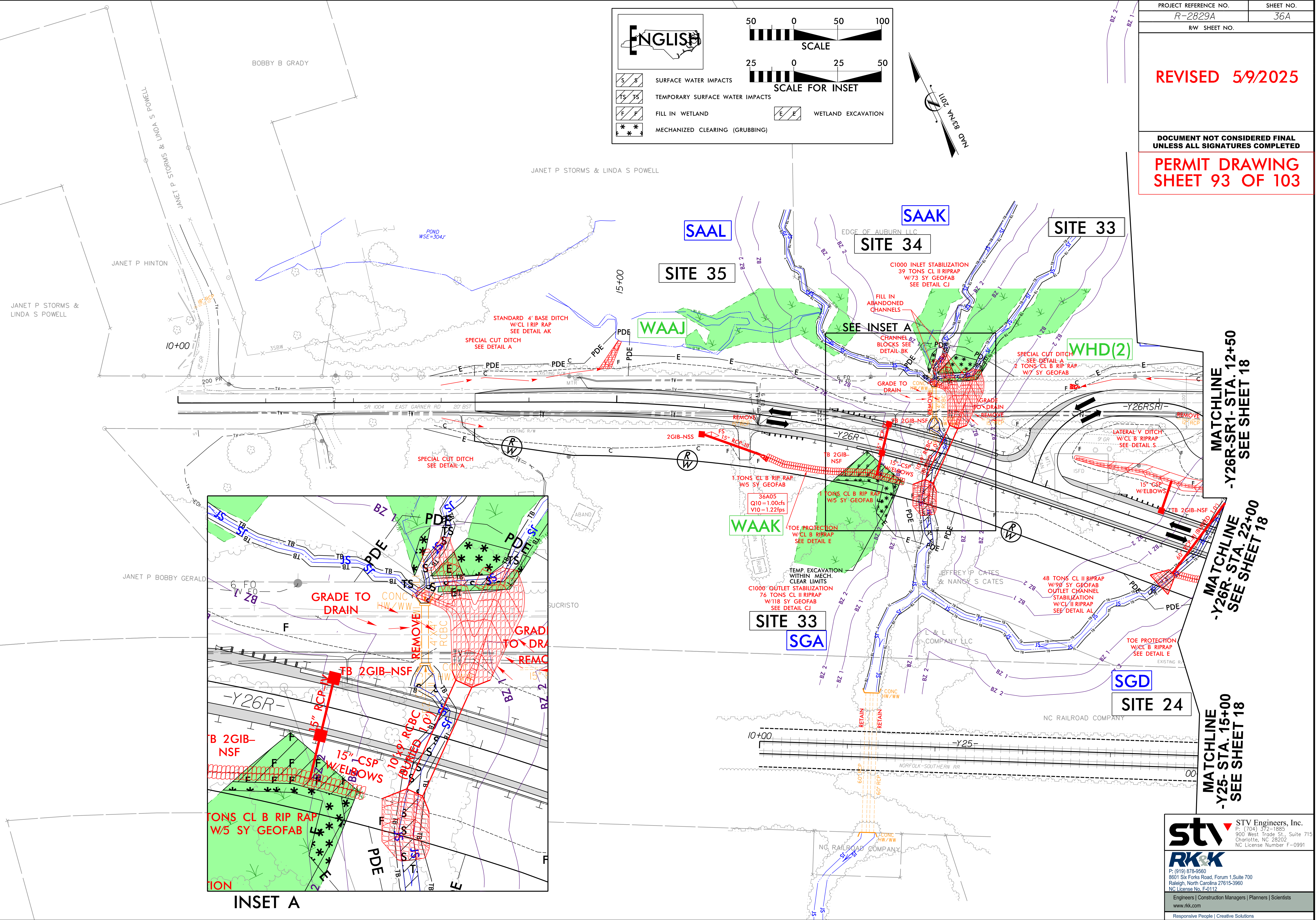
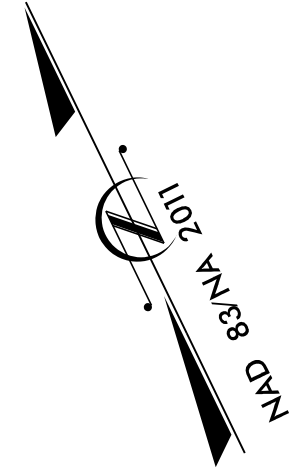
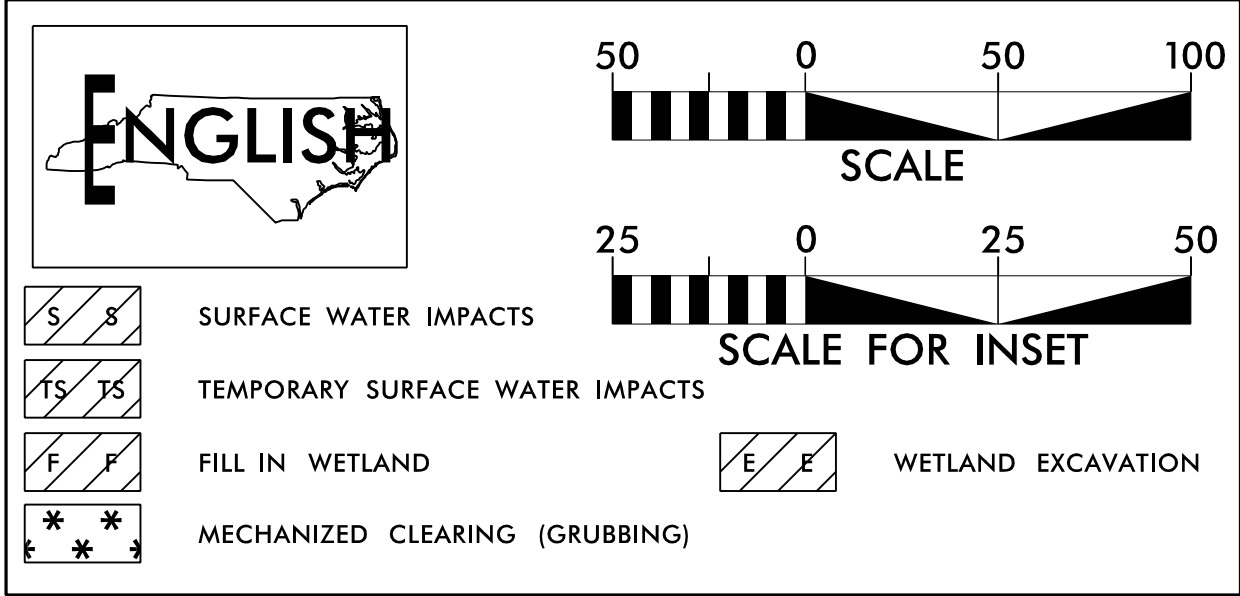
ENGLISH

SCALE

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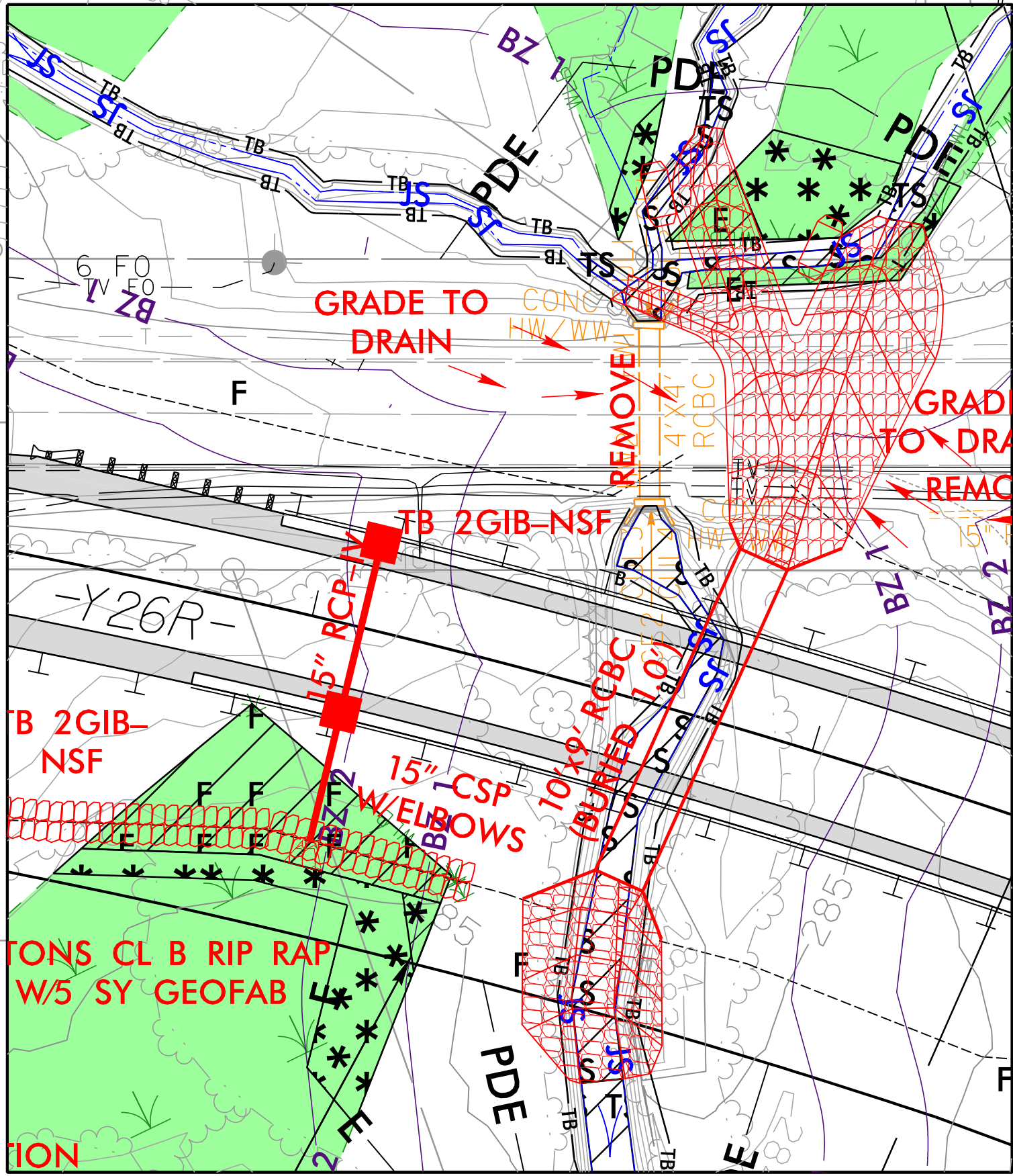
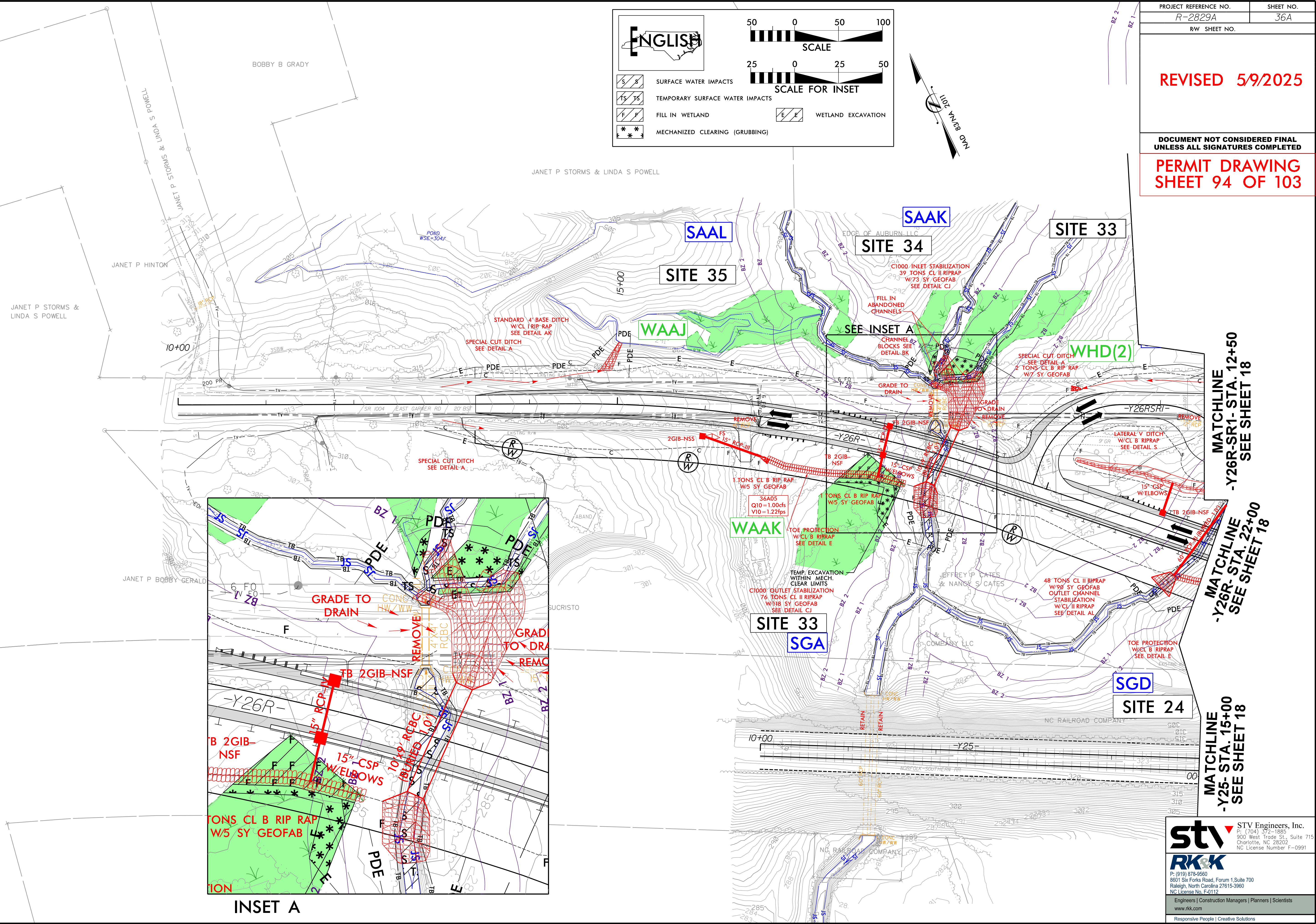
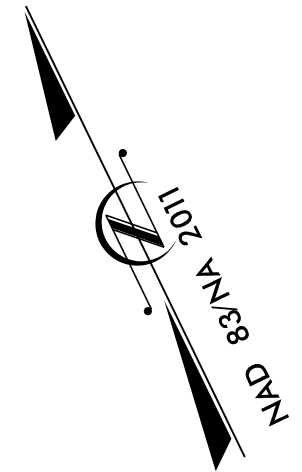
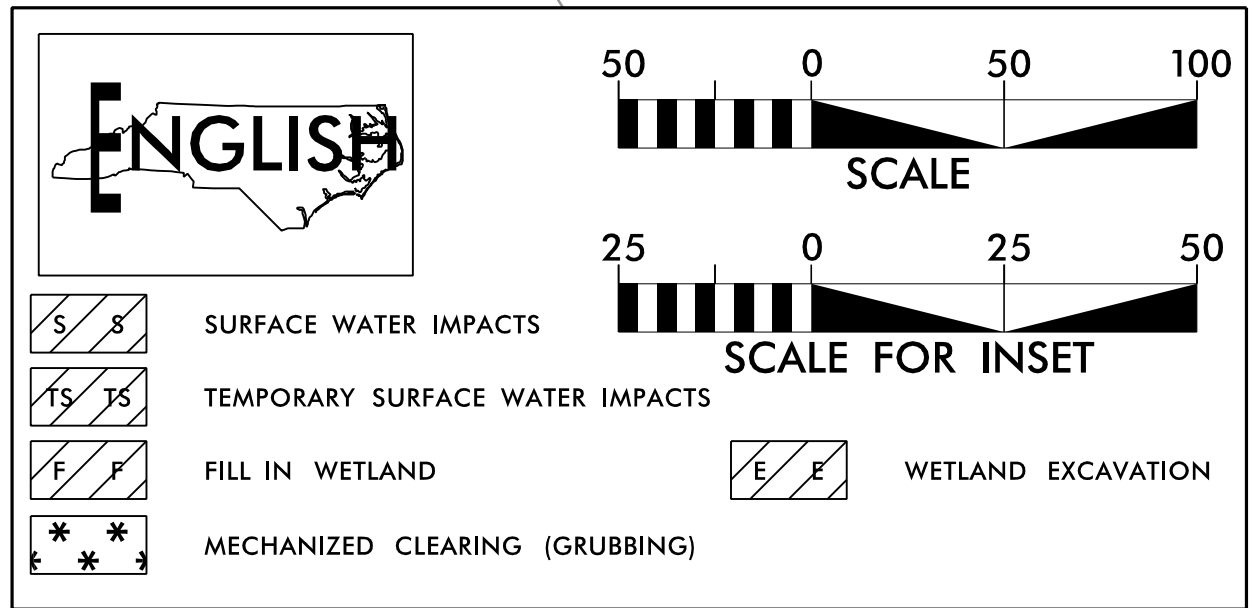
	SURFACE WATER IMPACTS
	TEMPORARY SURFACE WATER IMPACTS
	MECHANIZED CLEARING (GRUBBING)
	FILL IN WETLAND
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INSET A

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R-2829A	36A
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INSET A

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	-Y22RPAFLY_REV- 28+00 - 29+58 LT	Roadway Fill: WFG	0.055									
2	-L- 967+04 - 968+83 LT	Roadway Fill: WFJ	0.098		0.023							
3	-L- 972+77 - 979+44 LT	Bridge: SEW						0.031		319		
		WFN(2)	0.176	0.716	0.018	0.034	0.660					
	-L- 976+61 - 978+80 RT	Roadway Fill: SEY						0.002	0.023	15	174	
		WFN(1)	0.257	0.049	0.001	0.098	0.037					
4	-L- 1001+92 - 1004+65 RT	48" RCP: WFY	0.449			0.034						
5	-L1- 1008+79	9'x8' RCBC, SFH						0.042	0.010	384	96	
		Structure Stabilization						0.007		63		
6	-L1- 1013+72	12'x8' RCBC, SFF						0.070	0.009	533	60	
		Structure Stabilization						0.012		86		
7	-L1- 1012+26 LT - 1018+49 RT	Roadway Fill: SFE						0.060	0.002	759	21	
		WFZ	0.113		0.015	0.010						
8	-L1- 1022+67 LT - 1025+03 RT	42" RCP: SFB						0.017		222		
		Structure Stabilization						0.001	0.001	24	10	
		WGD	0.021			0.001						
		WGC	0.013									
		WGB	0.079									
SHEET TOTALS*:			1.261	0.765	0.057	0.177	0.697	0.242	0.045	2405	361	0

*Rounded totals are sum of actual impacts

NOTES:

Site 3: 4 interior bents with 4 @ 3.5' diameter columns per bent= total 154.4sq ft (0.004ac) permanent wetland impact (included above)

Site 3: WFN(1) piece above SEW is a total take in summary above; hatching outside construction impacts is not shown.

Temporary Excavation (~0.01ac) within the permanently impacted wetland footprint limits due to an erosion control clean water diversion channel

Site 7: WFZ is a total take in summary above; hatching outside construction impacts is not shown

Revised 5/9/2025

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
9/4/2024
Wake County
R-2829A

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)
9	-L1- 1035+14 - 1037+70 LT	48" RCP: SFA						0.008		124		
		WGF	0.016									
		WGG	0.156									
		WAAE	0.092									
		WAAF				0.010						
	-L1- 1033+83 - 1038+36 LT	PAD						2.695				
10	-Y23RPB- 27+59 - 28+23 LT	Roadway Fill: WGJ	0.013			0.010						
11	-L1- 1060+75 - 1062+35 CL	Roadway Fill: SFD						0.009		71		
		WGM	0.023									
12	-L1- 1062+62 LT - 1063+75 RT	Roadway Fill: SFC						0.038		479		
		Structure Stabilization						0.002	0.001	22	12	
		WGN	0.001			0.005						
13	-L1- 1066+33 - 1067+40 RT	Roadway Fill: WGO	0.028			0.004						
14	-L1- 1084+46 RT - 1086+92 LT	Bank Stabilization: Ditches; SFV (White Oak Creek)						0.017	0.080	70	185	
15	-L1- 1098+69 - 1104+74 LT	8'x7' RCBC, SFR						0.014	0.002	164	19	
		Structure Stabilization						0.001		5		
		WGR	0.760		0.061	0.112						
SHEET TOTALS*:			1.089	0.000	0.061	0.141	0.000	2.784	0.083	935	216	0

*Rounded totals are sum of actual impacts

NOTES:
 Site 15: WGR is a total take in summary above; hatching outside construction impacts is not shown
 Site 15: Temporary Excavation (~0.01ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

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NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 9/4/2024
 Wake County
 R-2829A

Revised 2018 Feb

SHEET 100 OF 103

WETLAND AND SURACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	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)
16	-L1- 1110+56 LT - 1116+24 RT	Roadway Fill, 7'x7' RCBC: SFN						0.041		413		
		WGR	1.387			0.088						
		WGT			0.008	0.018						
17	-L1- 1113+08 - 1114+68 RT	Roadway Fill: WGS	0.237			0.009						
18	-L1- 1114+82 LT - 1119+07 RT	Roadway Fill: SFQ						0.048	0.001	571	8	
		Structure Stabilization						0.002		34		
19	-L1- 1124+16 LT - 1126+26 RT	60" RCP: SFS						0.031		445		
		Structure Stabilization						0.003	0.002	21	10	
		WGR	0.202			0.020						
20	-L1- 1137+84 LT - 1142+30 RT	54" RCP/WSP/CAAP: SFT						0.054		757		
		Structure Stabilization						0.004	0.002	47	25	
20A	-Y24R- 36+70 RT	Ditch: WGU(2)				0.001						
21	-L1- 1148+27 LT - 1149+37 RT	Roadway Fill: WGY	0.099									
22	-L1- 1148+75 - 1149+39 RT	Roadway Fill: WGZ	0.059			0.016						
23	-L1- 1151+32 LT - 1154+50 RT	6'x8' RCBC, SGC						0.026	0.002	398	25	
		Structure Stabilization						0.001		20		
		WHB	1.178		0.002	0.061						
SHEET TOTALS*:			3.162	0.000	0.010	0.213	0.000	0.210	0.007	2706	68	0

*Rounded totals are sum of actual impacts

NOTES:

Site 23: Temporary Excavation (~0.032ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

Revised 5/9/2025

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
9/4/2024
Wake County
R-2829A

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)
24	-L1- 1159+88 LT - 1162+99 RT	54" CAAP / 60" RCP: SGD						0.034		387		
		Structure Stabilization						0.007	0.003	92	25	
	-L1- 1161+00 - 1161+40 LT	Bank Stabilization						0.010		71		
25	-L1- 1169+38 LT - 1172+22 RT	11'x8' RCBC: SGE						0.036	0.002	443	23	
		Structure Stabilization						0.003	0.002	46	33	
		WHD(1)	0.255		0.015	0.027						
		WHD(2)	0.195		0.009	0.013						
26	-L1- 1171+28 LT - 1178+18 RT	Roadway Fill: SGG						0.084	0.001	723	11	
		Structure Stabilization						0.002		21		
27	-L1- 1174+66 - 1179+63 LT	Roadway Fill: SGF						0.030	0.004	309	40	
		Structure Stabilization						0.003		37		
		WHD(2)	0.108		0.037	0.023						
28	-Y22CR- 13+50 LT - 14+26 RT	2 @ 12'x8' RCBC: SKR						0.036	0.011	117	44	
		Structure Stabilization						0.016		75		
29	-Y23R- 61+16 LT	36" RCP: SFJ						0.008		64		
		Structure Stabilization						0.002	0.001	20	10	
29A	-Y23FR- 11+07 - 12+01 LT	54" RCP: SFJ						0.007	0.001	78	12	
		Structure Stabilization						0.003	0.001	24	10	
		WNM	0.021			0.044						
SHEET TOTALS*:			0.579	0.000	0.061	0.107	0.000	0.281	0.026	2507	208	0

*Rounded totals are sum of actual impacts

NOTES:

Site 25: Temporary Excavation (~0.007ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

Site 29A: Temporary Excavation (~0.005ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

Revised 5/9/2025

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
9/4/2024
Wake County
R-2829A

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)
30	-Y23DR- 23+90 LT - 25+00 RT	42" RCP: SHT						0.011		225		
	-Y23DR- 23+59 - 25+53 LT	PAO						0.792				
31	-Y24R- 19+06 LT - 21+74 RT	5'x6' RCBC Ext / 72" WSP: SFY						0.001		6		
		Structure Stabilization						0.005	0.002	34	10	
		WGW	0.023		0.004	0.019						
		WGV(1)	0.055		0.010	0.021						
32	-Y24R- 34+65 CT	6'x8'9" RCBC Ext / 72" WSP: SGA						0.064	0.001	270	7	
		Structure Stabilization						0.007	0.003	30	12	
33	-Y26R- 18+73 CT	10'x9' RCBC: SGA						0.016	0.001	137	11	
		Structure Stabilization						0.007	0.006	40	37	
		WHD(2)			0.007	0.014						
		WAAK	0.026			0.020						
34	-Y26R- 18+50 LT	10'x9' RCBC: SAAK						0.002	0.001	31	11	
35	-Y26R- 18+35 LT	10'x9' RCBC: SAAL							0.001		10	
36	-Y22RPE_REV- 45+95 - 46+14 RT	Ditch: WFK				0.005						
SHEET TOTALS*:			0.104	0.000	0.021	0.079	0.000	0.905	0.015	773	98	0
PROJECT TOTALS*:			6.195	0.765	0.210	0.717	0.697	4.422	0.176	9326	951	0

*Rounded totals are sum of actual impacts

NOTES:

Site 33: Temporary Excavation (~0.001ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

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NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
9/4/2024
Wake County
R-2829A