



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

August 31, 2020

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

Attn: Mr. Eric Alsmeyer  
NCDOT Coordinator

Subject: **Revised Modification Request for Section 404 Individual Permit, Section 401 Water Quality Certification and Neuse Riparian Buffer Authorization** for Interstate 40 Widening and Improvements from I-440/US 64 (Exit 301) to just north of SR 1525 (Cornwallis Road), including improvements to NC 42 and SR 1010 (Cleveland Road) in Wake and Johnston Counties, Federal Aid Project No. IMNHF-040-4(139)301; TIP Numbers I-5111 and I-4739, Division 5. Debit \$570 from WBS Element 42346.3.1.

Dear Mr. Alsmeyer:

As you are aware, the North Carolina Department of Transportation (NCDOT) applied for permits for the subject project on May 7, 2019 and a modification on both December 20, 2019 and May 28, 2020. The Corps of Engineers issued the Section 404 permit for the project on September 6, 2019 and modifications on February 11 and June 11, 2020, respectively. The North Carolina Division of Water Resources issued the 401 Water Quality Certification for the project on July 10, 2019 (NCDWR Project No. 20190593) and modifications on January 22 and June 3, 2020, respectively. This current correspondence replaces our July 24, 2020 request with updated information regarding modifications to Site 44 and 17.

**Site 44**

A field revision is being requested at Site 44. Currently, stream SEQ is piped from the east side of I-40 to the west side, travels along the west side of I-40 for approximately 80 feet, then is piped back to the east side. The original design kept this drainage pattern by boring a new 54" steel pipe to the west side of I-40 and then extending the existing 60" pipe to convey SEQ back to the east side. The new design proposes to install a 54" pipe along the east side of I-40 that outlets to the same 60" pipe, thus eliminating the need to bore a new 54" steel pipe. The 60" pipe will still be extended to convey any drainage from the west side to the east as well as to act as an equalization pipe. For construction sequencing, stream SEQ be placed in the relocation channel, as currently authorized, for approximately 3 months. However, this will be a temporary diversion and shown as temporary excavation in wetlands on Permit Drawing Sheet 124. Once the 54" pipe is installed along the east side of I-40, this channel will be backfilled to preexisting elevations, vegetated, and restored as a wetland.

**MAILING ADDRESS:**  
NC DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL ANALYSIS UNIT  
1598 MAIL SERVICE CENTER  
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6000  
FAX: 919-212-5785  
WEBSITE: [NCDOT.GOV](http://NCDOT.GOV)

**LOCATION:**  
CENTURY CENTER, BUILDING A  
1000 BIRCH RIDGE DRIVE  
RALEIGH NC, 27610-4328

This modification will result in the following:

- 0.043 ac of permanent wetland excavation becoming temporary
- +765 ft<sup>2</sup> of impacts to Buffer Zone 2 through abandoning the channel

When recalculating the impacts for Site 44, it became apparent that the wetland impacts had been inadvertently under reported in the initial application. These numbers have been corrected on the attached revised impact summary sheets. Permanent wetland fill increases by 0.04 acre to 0.78 acre total. Temporary wetland increases by 0.03 acre to 0.17 acre total. A cross-section of Site 44 (Permit Drawing 93A) is also included as that had been omitted from the initial permit application.

Attached are the following revised permit drawings depicting the affected area, all of which have a revision date in either July or August 2020:

- Permit Drawing 91: plansheet 42 without contours
- Permit Drawing 92: plansheet 42 with contours
- Permit Drawing 93: 60" RCP detail sheet
- Permit Drawing 93A: cross-section of Site 44
- Permit Drawing 7: ditch detail sheet
- Buffer Drawing 34: buffer plansheet 42
- Permit Drawing 124: summary table
- Permit Drawing 125: summary table
- Buffer Drawing 51: buffer summary table
- Buffer Drawing 52: wetlands in buffer impact summary table

#### **Site 17**

During a recent review, it was noted that the swale running along -Y5RPA- 21+00-23+00 LT (near Site 17 in the permit drawing detail B) was closer to the ramp than depicted in the permit drawings. As a result, it is funneling water behind the new 60" RCP headwall as opposed to beyond it and causing erosion. It was determined that the least invasive solution would be to install an open-ended pipe to receive the flow and discharge to Stream SOE. An elbow will be installed at the base of the slope to direct the flow towards the channel. This will prevent flow in Stream SEO from entering the proposed pipe during higher flow events. Based on the drainage area, a 15" CSP is required.

Installing the 15" CSP will not result in additional surface water impacts since this section of the SEO channel was being ripped and considered fully impacted. However, this modification does increase buffer impacts:

- + 606 ft<sup>2</sup> Buffer Zone 1 impacts
- + 1,165 ft<sup>2</sup> Buffer Zone 2 impacts

Attached are revised permit drawings depicting the affected area, all of which have a revision date of either 8/3/2020 or 8/11/2020:

- Permit Drawing 35: plansheet 22 without contours
- Permit Drawing 36: plansheet 22 with contours
- Buffer Drawing 18: buffer plansheet 22
- Buffer Drawing 47: buffer summary table
- Buffer Drawing 51: buffer summary table

#### **Compensatory Mitigation**

NCDOT will request additional riparian buffer mitigation from the N.C. Division of Mitigation Services if necessary.

## REGULATORY APPROVALS

**Section 404:** NCDOT requests modification to the USACE Individual 404 Permit for the project as required for the above described activities.

**Section 401:** We are also requesting modification of the Section 401 Individual Water Quality Certification and Neuse Riparian Buffer Authorization from NCDWR. We are providing this request to NCDWR, for their approval. Authorization to debit the \$570.00 Permit Application Fee from TIP No. I-5111/I-4739/WBS 42346.3.1 is hereby given.

A copy of the permit modification request and its distribution list will be posted at <https://xfer.services.ncdot.gov/pdea/PermApps/>.

If you have any questions or need additional information, please contact Gordon Cashin at [gcashin@ncdot.gov](mailto:gcashin@ncdot.gov) or 919-707-6107.

Sincerely,

DocuSigned by:

*Mack C. Rivenbark III*

AAAD1248B309416...

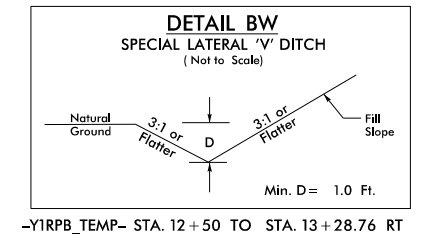
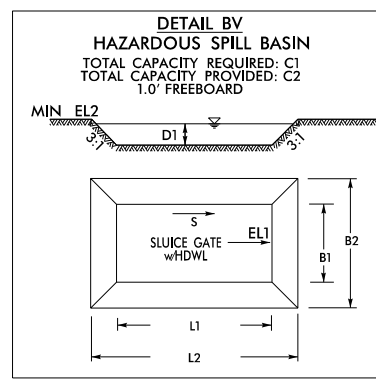
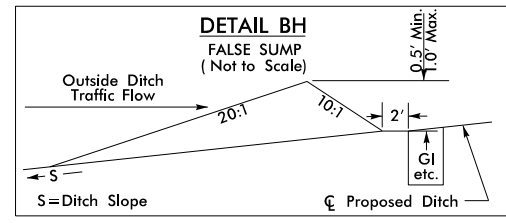
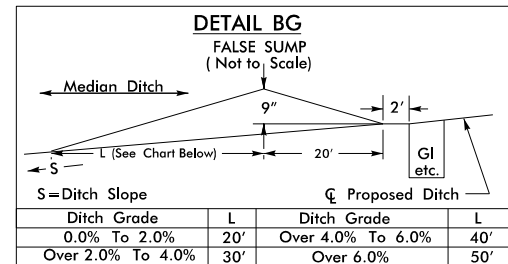
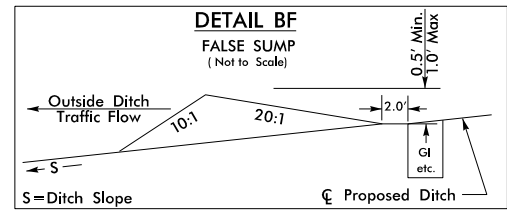
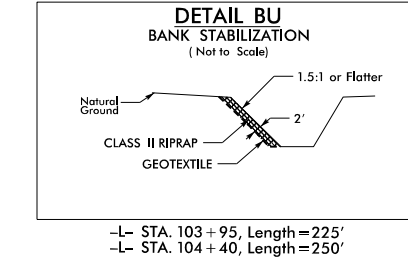
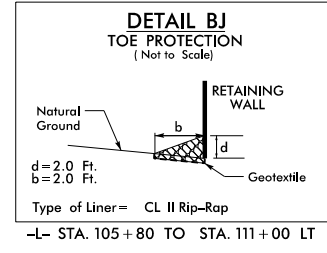
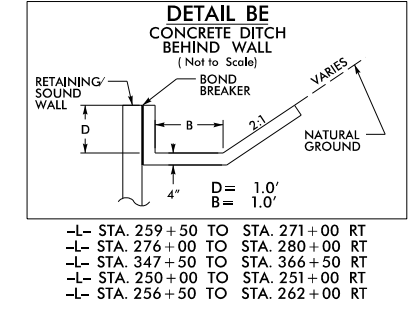
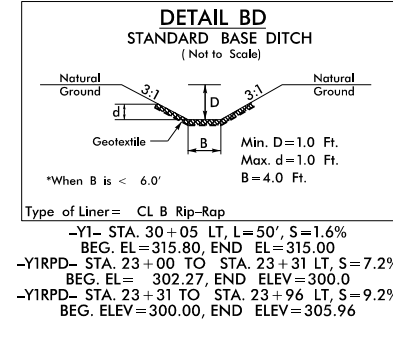
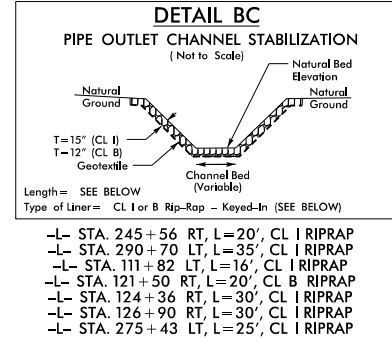
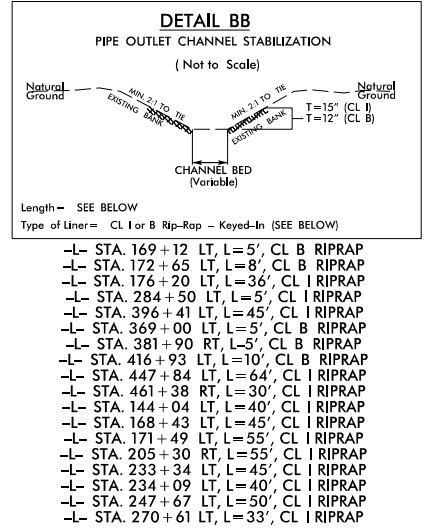
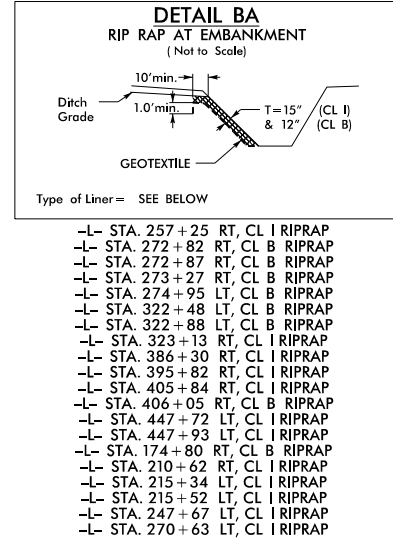
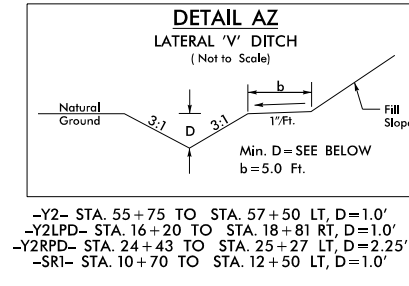
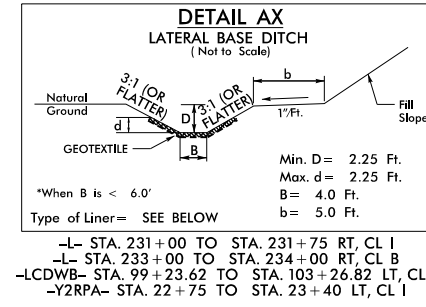
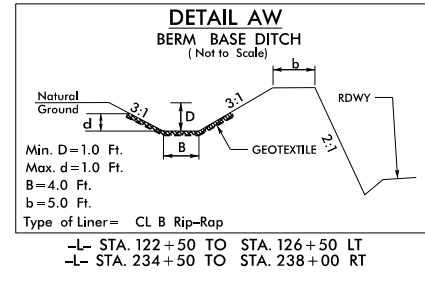
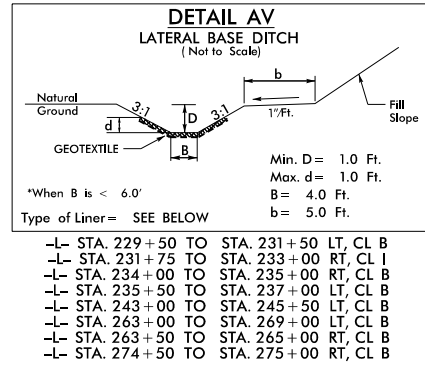
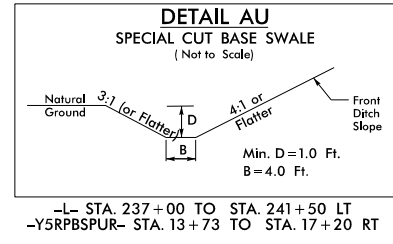
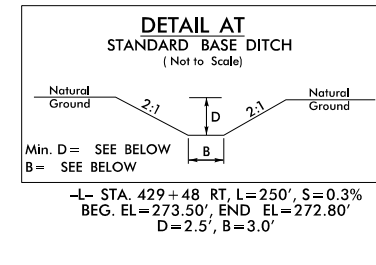
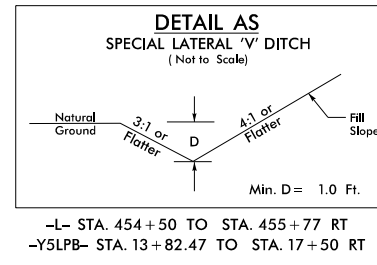
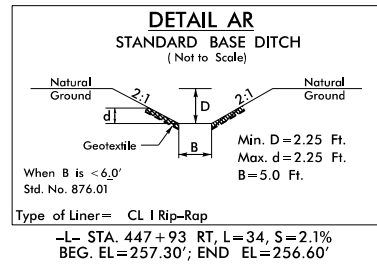
for

Philip S. Harris, III, P.E., C.P.M.  
Environment Analysis Unit Head

PROJECT REFERENCE NO. 1-5111/1-4739	SHEET NO. 2D-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

PERMIT DRAWING  
SHEET 7 OF 125

REVISED 08/1/2020



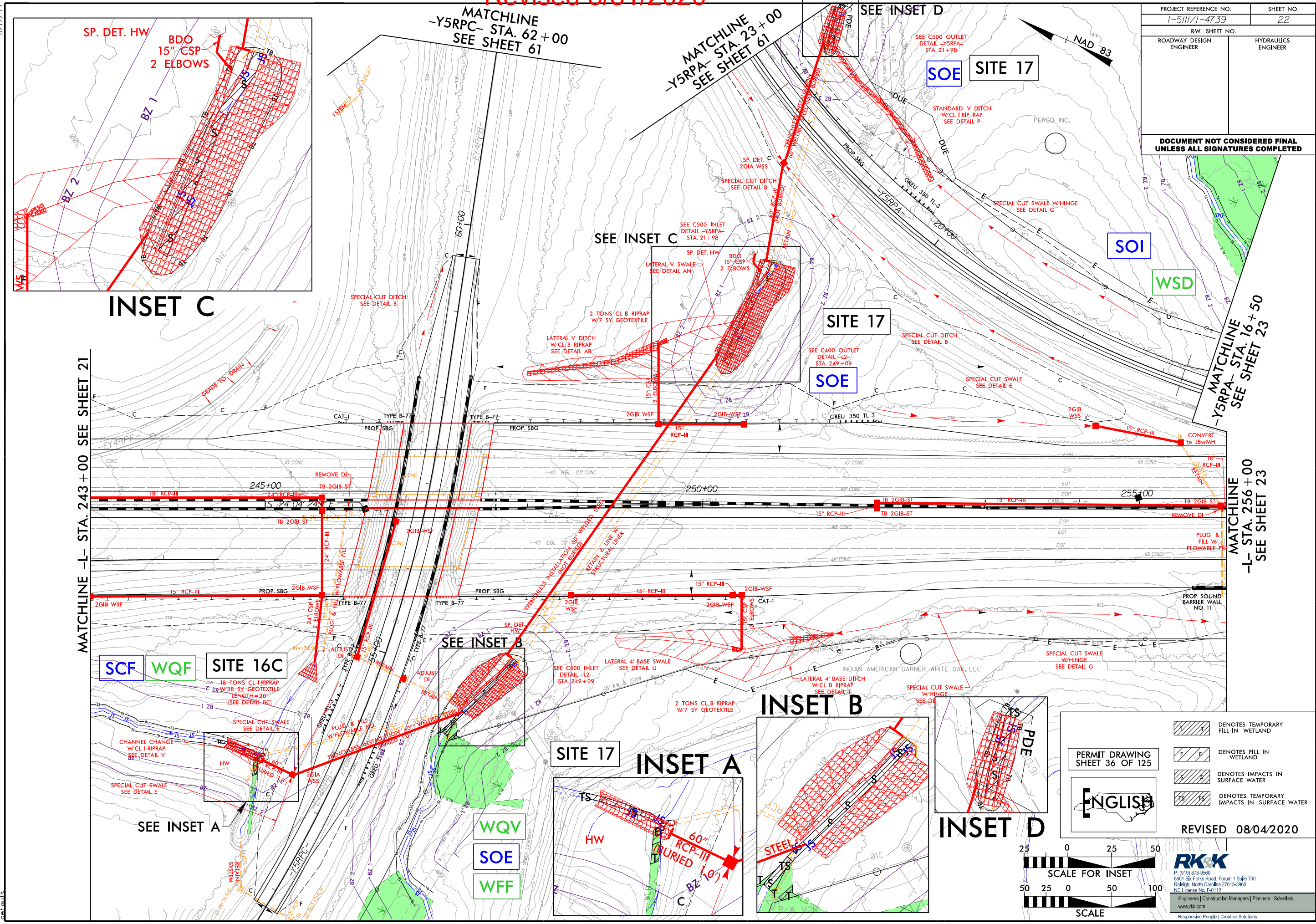
8/1/2020 R:\Hydro\Public\PERMITS\Environmental\Drawings\4C\15111\_14739\_Hyd\_wet\_Detail.dgn



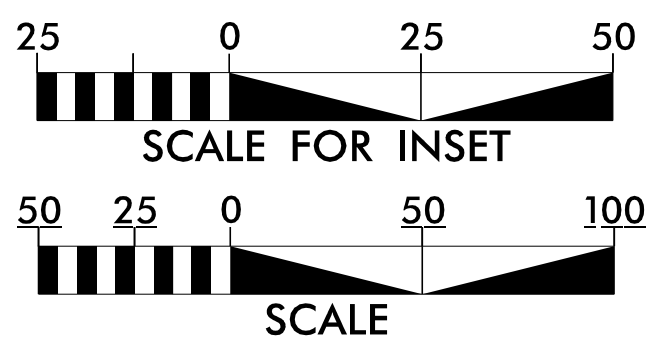
Revised 8/31/2020

PROJECT REFERENCE NO. 1-5111/1-4739	SHEET NO. 22
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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



8/17/99  
 B:\4\2020\PERMITS\Environmental\Drawings\4C\Section 2\Wetland\5111\_14739\_hyd\_4C\_wet\_psh22\_con.dgn  
 8/14/2020  
 B:\Hydraulics\PERMITS\Environmental\Drawings\4C\Section 2\Wetland\5111\_14739\_hyd\_4C\_wet\_psh22\_con.dgn



PERMIT DRAWING SHEET 91 OF 125

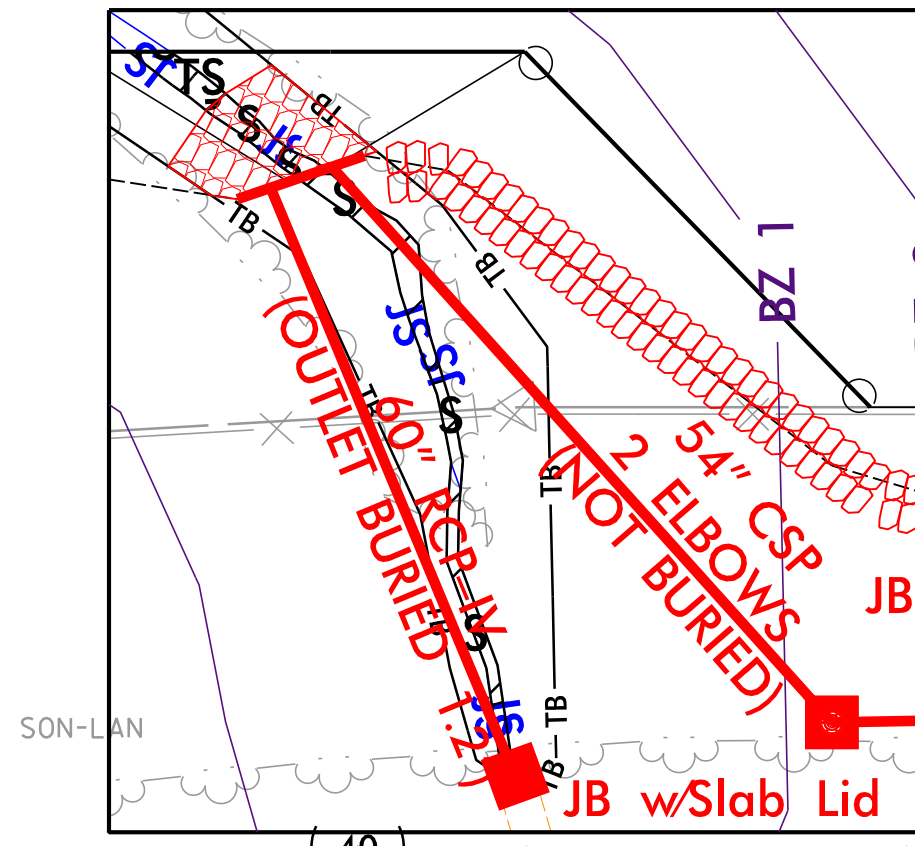


- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

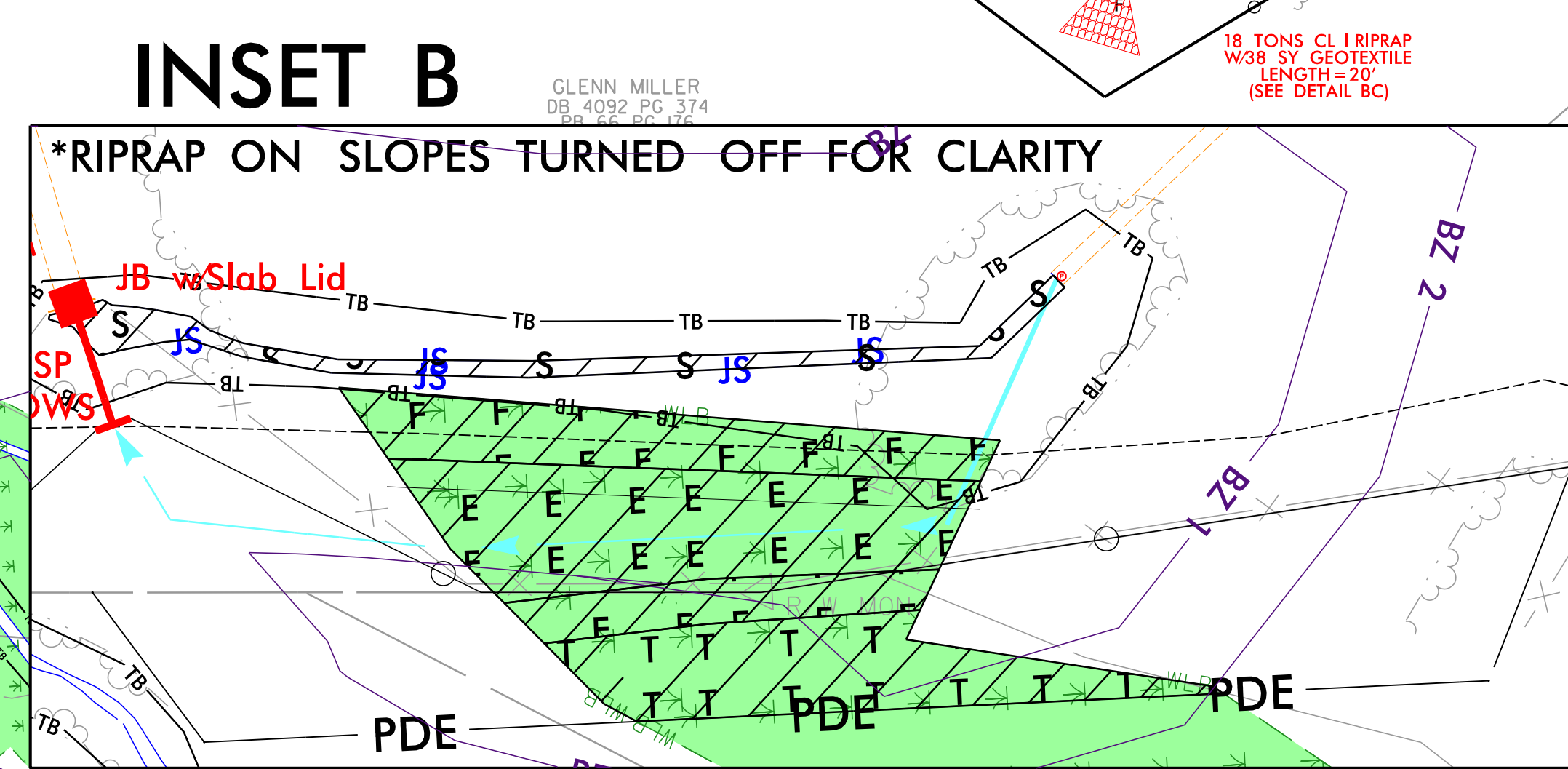
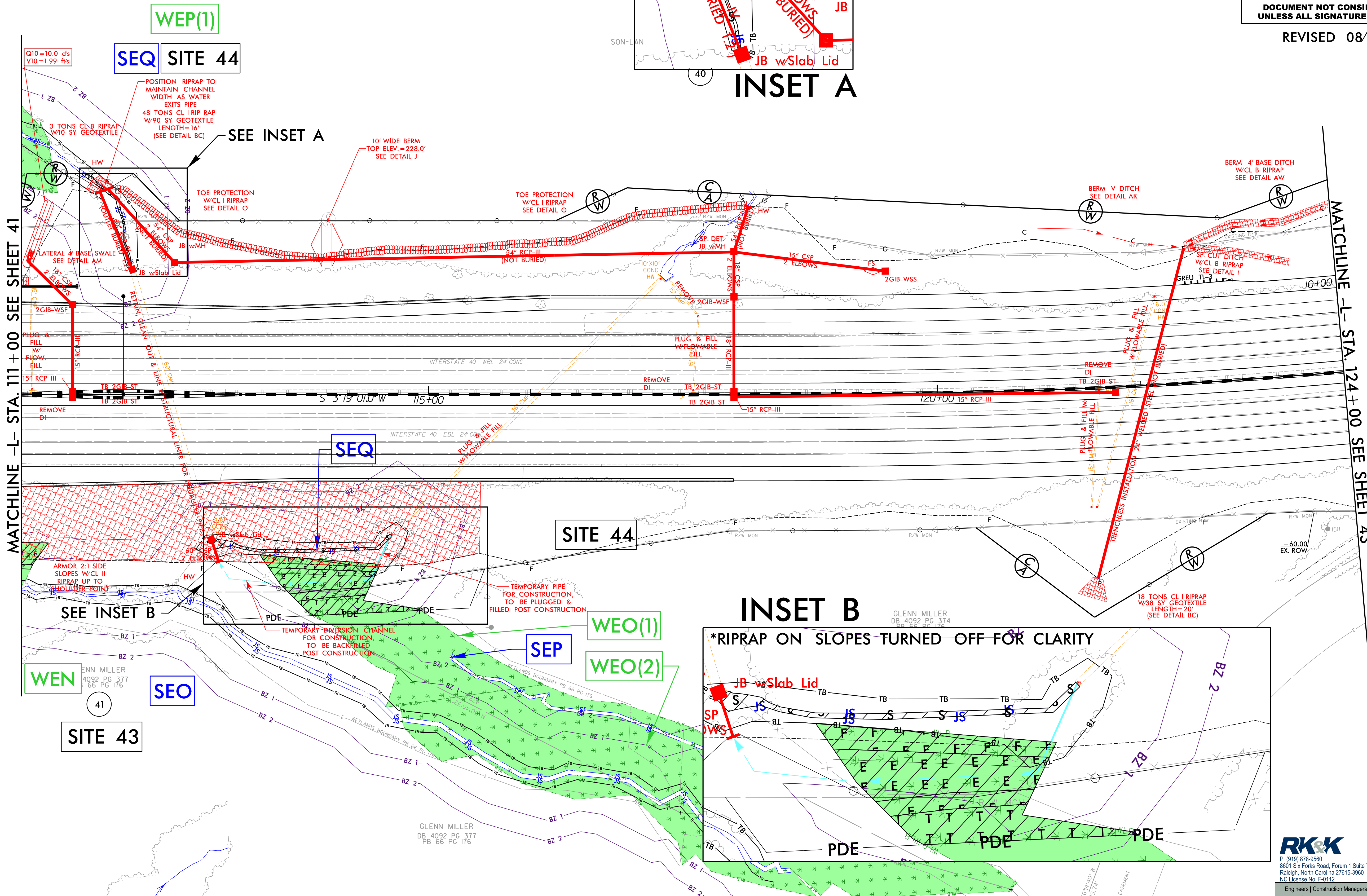
NAD 83

PROJECT REFERENCE NO. 1-5111/1-4739	SHEET NO. 42
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISED 08/11/2020

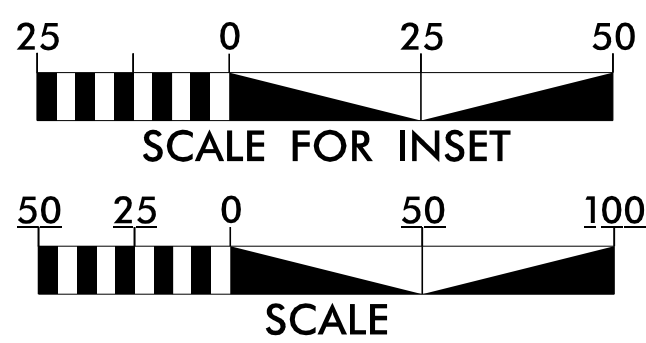


INSET A



INSET B

8/17/2020  
B:\Hydro\paulurs\PERMITS\_Environmental\Drawings\4C\Section\_3\Wetland\51111\_14739\_hyd\_4C\_wet\_psh42.dgn



PERMIT DRAWING  
SHEET 92 OF 125



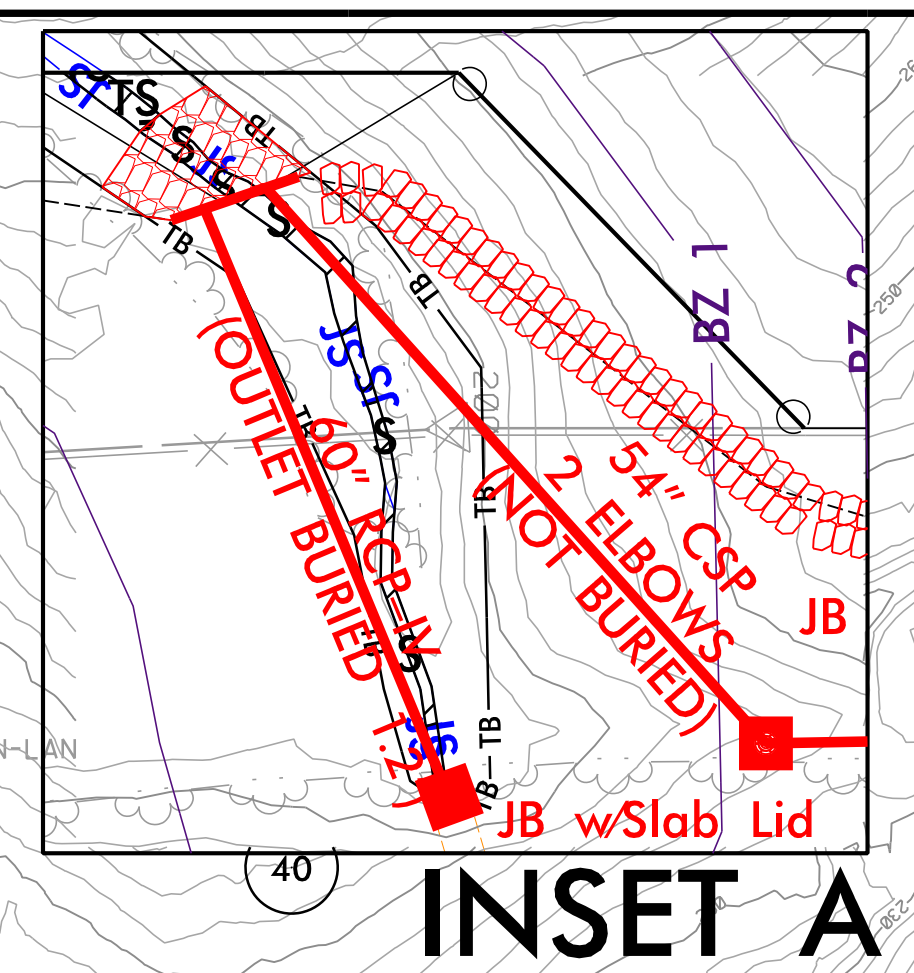
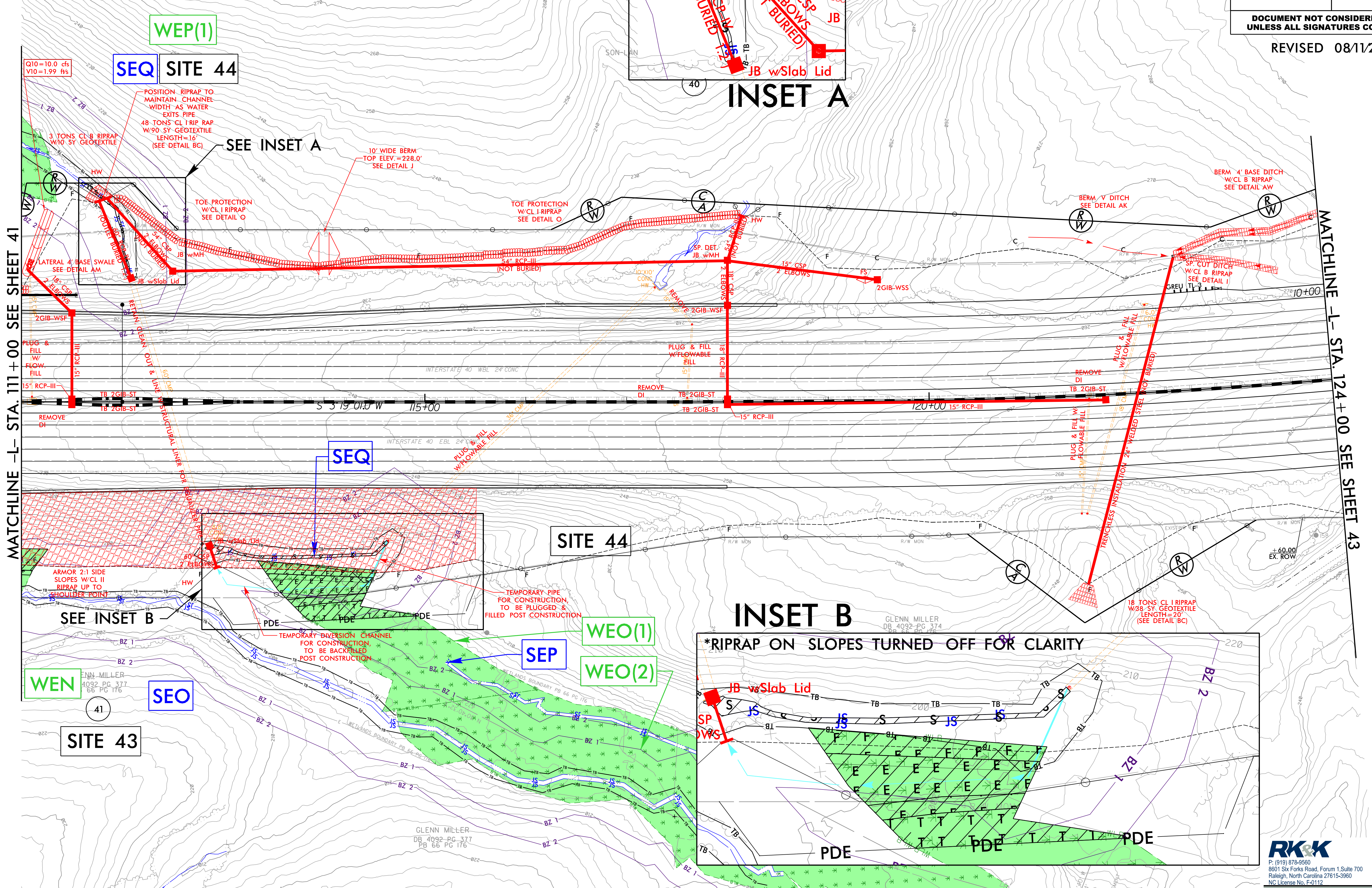
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

NAD 83

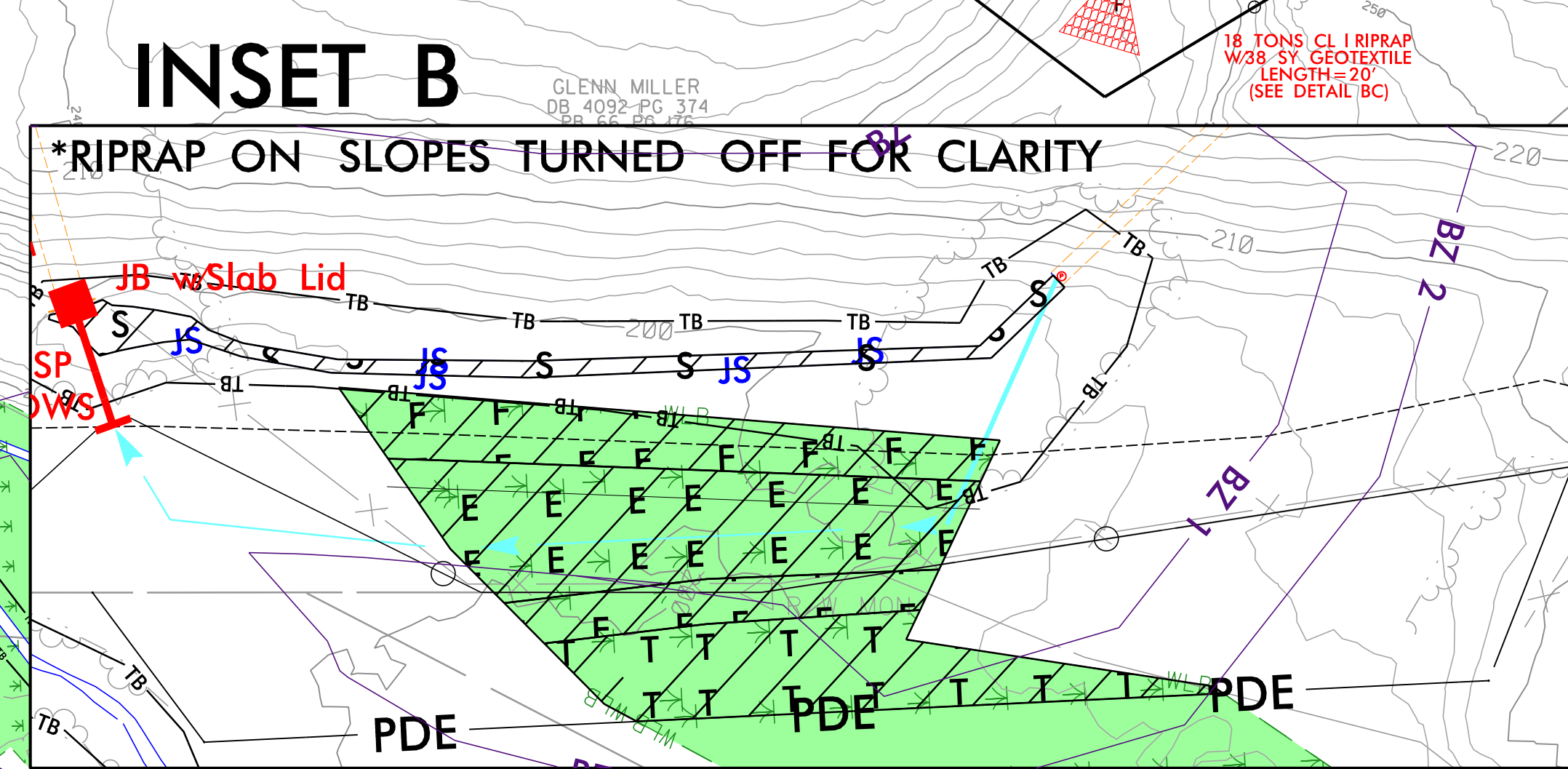
PROJECT REFERENCE NO. 1-5111/1-4739	SHEET NO. 42
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

REVISED 08/11/2020



INSET A



INSET B

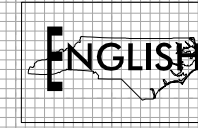
MATCHLINE -L- STA. 111+00 SEE SHEET 41

MATCHLINE -L- STA. 124+00 SEE SHEET 43

8/17/2020  
B:\Hydraulics\PERMITS\_Environmental\Drawings\4C\Section 3\Wetland\5111.14739\_hyd\_4C\_wet\_psh42\_con.dgn



PROJECT REFERENCE NO. 1-5111/1-4739	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

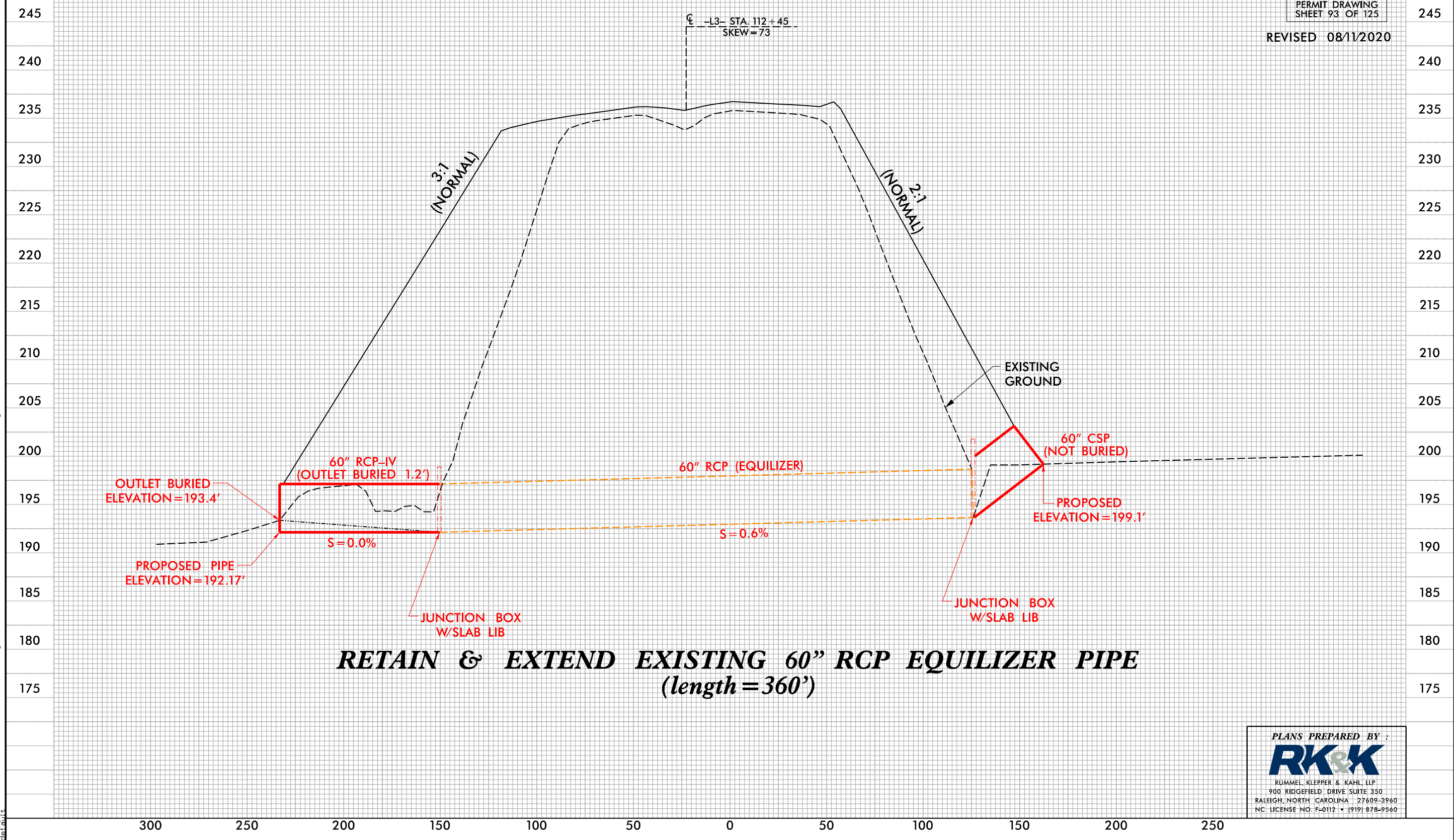


# SITE 44 -L3- 112+45

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING  
SHEET 93 OF 125

REVISED 08/11/2020



B:\H\2020\Permits\Environmental\Drawings\4C\Section 3\15111\_14739\_PRR\_MET\_42EX1\_PIPEPFL.dgn  
 8/11/2020 10:14:58 AM

PLANS PREPARED BY :

RUMMEL, KLEPPER & KAHL, LLP  
 900 RIDGEFIELD DRIVE, SUITE 350  
 RALEIGH, NORTH CAROLINA 27609-3960  
 NC LICENSE NO. F-0112 • (919) 878-9560



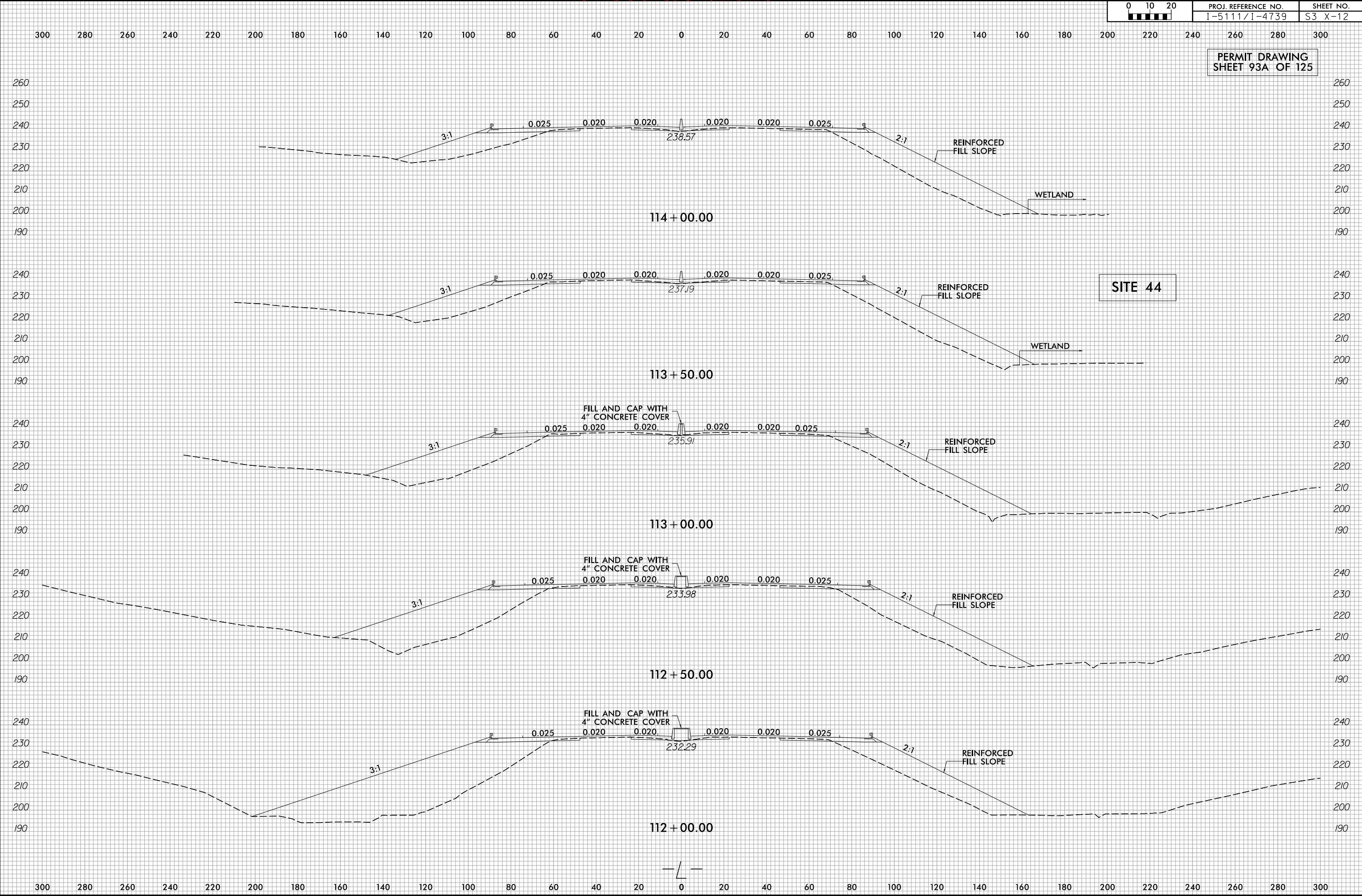
PROJ. REFERENCE NO.  
1-5111/1-4739

SHEET NO.  
S3 X-12

PERMIT DRAWING  
SHEET 93A OF 125

6/23/16

8/1/2020  
F:\Hydro\Projects\Environmental Drawings\4\Section 3\15111\_14739\_hyd\_xpl.L3\_site44.dgn



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)
39A	-L- 98+30-99+62 LT	ROADWAY FILL - WEM	0.07			0.02						
39B	-L- 101+93-102+66 LT	ROADWAY FILL - WEM	0.01			0.01						
40	-L- 103+59-104+95 LT & RT	BANK STABILIZATION - SDG						0.14	< 0.01	334	10	
41	-L- 107+69-109+35 LT	ROADWAY FILL - WEP(1)				0.02						
42	-L- 104+95-108+09 RT	ROADWAY FILL - SDN, WEN	0.29	0.01		0.05		0.02		200		
43	-L- 110+24-110+66 RT	ROADWAY FILL - SEO							< 0.01		40	
44	-L- 111+78-114+64 LT & RT	60" RCP, ROADWAY FILL- SEQ, WEO(1)	0.04	0.03	0.04**			0.02		269		
	-L- 111+58-111+85 LT	BANK STABILIZATION - SEQ						< 0.01	< 0.01	16	11	
45	-L- 144+01-144+56 LT	48" CSP - SEU						0.01		154		
	-L- 143+75-144+08 LT	BANK STABILIZATION - SEU						< 0.01	< 0.01	40	11	
46	-L- 164+25-164+78 RT	30" CSP / 36" RCP - SEA, WOE	0.02					0.01		168		
47	-Y1RPA- 16+63-17+14 RT	54" CSP - SLV						< 0.01		62		
	-Y1RPA- 16+58-16+65 RT	BANK STABILIZATION - SLV						< 0.01	< 0.01	45	11	
48	-Y1RPA- 16+66-17+11 RT	ROADWAY FILL, RIPRAP - SLW						< 0.01	< 0.01	14	51	
49	-L- 171+49-174+67 LT & RT	66" WSP / 66" RCP - SLU, WC, WOB	0.06					0.03		284		
	-L- 171+40-174+63 LT & RT	BANK STABILIZATION - SLU						< 0.01	< 0.01	64	30	
50	-LCDWB- 64+67-68+61 LT & RT	60" CSP, CHANNEL CHANGE - SLS, WOA	0.05	0.02				0.06	< 0.01	588	57	
51	-Y2RPA3- 23+20-23+82 LT	ROADWAY FILL - WNZ	0.02									
	-Y2RPA3- 20+23-23+20	ROADWAY FILL - PBL						0.58				
	-L- 199+51-205+31	ROADWAY FILL, 66" RCP - SLR						0.02		230		
	-Y2RPD3- 15+76-16+19 LT	BANK STABILIZATION- SLR						< 0.01	< 0.01	55	15	
52	-Y2RPD3- 23+65-24+43 LT	DITCH, ROADWAY FILL - WGG		0.01		0.02						
53	-L- 210+53-215+65 LT	54" RCP / 66" RCP - MILL BRANCH						0.06	< 0.01	401	7	
	-L- 210+21-210+61 RT	BANK STABILIZATION - MILL BRANCH						< 0.01	< 0.01	29	17	
TOTALS*:			0.55	0.08	0.04	0.13		0.98	0.03	2953	260	0

REVISED 08/28/2019, 12/12/19, 7/2/20, 8/11/20

NOTES:

- \*Rounded totals are sum of actual impacts
- \*\* Site 44 excavation in wetlands is temporary

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 AUGUST 2020  
 WAKE AND JOHNSTON  
 I-5111\_I-4739

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)
54	-L- 232+69-233+35 LT	54" WSP - SJ, WI	0.06					< 0.01		82		
	-L- 233+33-233+44 LT	BANK STABILIZATION - SJ						< 0.01	< 0.01	45	10	
55	-L- 233+94-234+19 LT	48" RCP - SK, WJ	< 0.01					< 0.01		78		
	-L- 234+02-234+11 LT	BANK STABILIZATION - SK						< 0.01	< 0.01	40	10	
56	-L- 246+22-246+77 RT	CHANNEL CHANGE - SEE						< 0.01	< 0.01	102	10	
57	-L- 246+73-247+65	60" WSP - SDD, WFF	0.01					0.02	< 0.01	238	10	
	-L- 247+59-247+78 LT	BANK STABILIZATION - SDD						< 0.01	< 0.01	55	9	
58	-L- 269+75-270+63 LT	36" WSP - SQ						< 0.01		100		
	-L- 270+58-270+85 LT	BANK STABILIZATION - SQ						< 0.01	< 0.01	33	27	
TOTALS*:			0.09					0.06	< 0.01	773	76	0

<b>PROJECT TOTALS*:</b>	<b>0.78</b>	<b>0.17</b>	<b>0.11</b>	<b>0.16</b>		<b>1.55</b>	<b>0.22</b>	<b>7665</b>	<b>1582</b>	
-------------------------	-------------	-------------	-------------	-------------	--	-------------	-------------	-------------	-------------	--

REVISED 08/28/2019, 12/12/19, 4/22/20, 7/2/20, 8/11/20

NOTES:  
\*Rounded totals are sum of actual impacts

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
AUGUST 2020  
WAKE AND JOHNSTON  
I-5111\_I-4739  
SHEET 125 OF 125





**RIPARIAN BUFFER IMPACTS SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )		
14A	-L- 168+89-169+89 LT	BANK STABILIZATION - SRM			X				1658	946	2604		
14B	-L- 172+50-172+88 LT	BANK STABILIZATION - SRM			X				1824	1680	3504		
14C	-L- 175+81-176+98 LT	BANK STABILIZATION - SRM			X				2795	277	3071		
15	-L- 186+18-188+55 LT	ROADWAY FILL - SRJ			X				0	90	90		
16A	-Y5RPD- 22+19-22+50 RT	EXIST. 24" CMP PLUG			X				2032	2231	4263		
16B	-Y5RPD- 24+79 RT	EXIST. 15" CMP PLUG			X				613	306	918		
16C	-Y5RPC- 53+20 LT	60" RCP - SCF, WQF	X			1489	0	1489					
17	-Y5RPC- 54+38-55+47 RT, L- 250+27 LT, -Y5RPA- 21+91-23+05 RT	BANK STABILIZATION - SOE, WQV	X						12732	5068	17800		
18	-L- 256+39-257+51 LT & RT	DITCH, 66" WSP- SOI, WSD	X			6922	3626	10548					
19	-L- 272+67-275+51 LT & RT	DITCH, 66" WSP - SNF	X			8722	5049	13771					
20	-L- 281+93-284+50 LT & RT	CHANNEL CHANGE - SNH, WQE, WRX	X			3953	956	4909					
21	-L- 322+40-323+33 LT & RT	CHANNEL CHANGE, 72" RCP, SNY	X			8579	4452	13031					
22	-L- 323+52-325+32 RT	CHANNEL CHANGE - SOC			X				3438	1054	4493		
23A	-L- 361+15-364+65 LT	CHANNEL CHANGE - SLF / SEM			X				10192	2082	12274		
23B	-L- 368+90-369+15 LT	BANK STABILIZATION - SEM			X				1037	0	1037		
23C	-L- 374+40-378+99 LT	CHANNEL CHANGE - SEM			X				11509	228	11738		
24	-L- 378+63-379+21 LT	BANK STABILIZATION - SLI			X				1108	0	1108		
25	-L- 373+59-374+08 RT	ROADWAY FILL/ DITCH - SNM			X				61	775	836		
26A	-L- 381+90 RT	BANK STABILIZATION - SNK			X				422	0	422		
26B	-L- 385+01-385+81 RT	ROADWAY FILL - SNK			X				1025	0	1025		
	-L- 385+80-386+06 RT	BANK STABILIZATION - SNK			X				712	0	712		
27	-L- 386+06-386+88 RT	BANK STABILIZATION - SNO	X			1765	1079	2844					
28	-L- 387+14-387+47 LT	60" WSP - SEM			X				1116	0	1116		
<b>TOTALS*:</b>						<b>31431</b>	<b>15161</b>	<b>46592</b>	<b>52273</b>	<b>14737</b>	<b>67011</b>	<b>0</b>	<b>0</b>

NOTES:

REVISED 12/12/2019  
8/3/2020

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
AUGUST 2020  
WAKE / JOHNSTON  
I-5111 / I-4739  
42346.3.1

**RIPARIAN BUFFER IMPACTS SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )		
39	ONLY IN PERMIT SET												
40	-L- 99+00-107+44 LT & RT	BRIDGE		X		14449	7030	21479	1104	2993	4097		
41	ONLY IN PERMIT SET												
42	-L- 106+42-107+44 RT	ROADWAY FILL - SDN, WEN			X				7169	5126	12295		
43	-L- 109+63-114+04 RT	ROADWAY FILL - SEO			X				7471	4557	12028		
44	-L- 110+99-115+29 LT & RT	60" RCP- SEQ, WEO(1) <sup>1</sup>	X						12849	6826	19675		
45	-L- 143+25-145+12 LT	48" CSP - SEU	X						11384	6539	17923		
46	-L- 164+25-164+78 RT	30" CSP / 36" RCP - SEA, WOE	X						10987	7345	18332		
47	-Y1RPA- 16+15-17+72 RT	54" CSP - SLV	X			5350	2012	7362					
48	ONLY IN PERMIT SET												
49	-L- 170+95-175+40 LT & RT	66" WSP / 66" RCP - SLU, WC, WOB	X						20163	9924	30087		
50	-L- 178+00-184+97 LT&RT	60" CSP, CHANNEL CHANGE - SLS,WOA	X						38684	25634	64318		
51	-L- 199+51-205+31	ROADWAY FILL, 66" RCP - SLR, WNZ	X						17316	9930	27247		
52	ONLY IN PERMIT SET												
53	-L- 209+51-217+29 LT & RT	54" RCP / 66" RCP - MILL BRANCH	X						27804	17778	45582		
54	-L- 232+37-234+37 LT	54" WSP - SJ, WI, WJ	X			8694	5213	13907					
55	ONLY IN PERMIT SET												
56	ONLY IN PERMIT SET												
57	-L- 246+11-248+25 LT & RT	60" WSP - SDD, WFF	X						15680	9394	25074		
58	-L- 269+75-270+63 LT	36" WSP - SQ	X						10972	7749	18721		
<b>TOTALS*:</b>						<b>28492</b>	<b>14255</b>	<b>42747</b>	<b>181583</b>	<b>113795</b>	<b>295378</b>	<b>0</b>	<b>0</b>

<b>PROJECT TOTALS*:</b>	<b>116816</b>	<b>55819</b>	<b>172635</b>	<b>302460</b>	<b>168876</b>	<b>471336</b>	<b>0</b>	<b>0</b>
-------------------------	---------------	--------------	---------------	---------------	---------------	---------------	----------	----------

NOTES:  
 1. SEQ under fill slope RT is a total take, 765sf of Mitigable BZ2 Impacts accounted for in totals but not hatched in plan view due to location outside PDE

REVISED 8/28/2019  
 12/12/2019  
 7/2/2020  
 8/11/2020

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 AUGUST 2020  
 WAKE / JOHNSTON  
 I-5111 / I-4739  
 42346.3.1

SHEET 51 OF 52



