

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-0211EC	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
43609.3.2	N/A	Design-Build	



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

**LOCATION: I-485 FROM I-77 TO US 74 (INDEPENDENCE BOULEVARD);
I-485 / WEDDINGTON ROAD INTERCHANGE; AND I-485 /
EAST JOHN STREET - OLD MONROE ROAD INTERCHANGE**

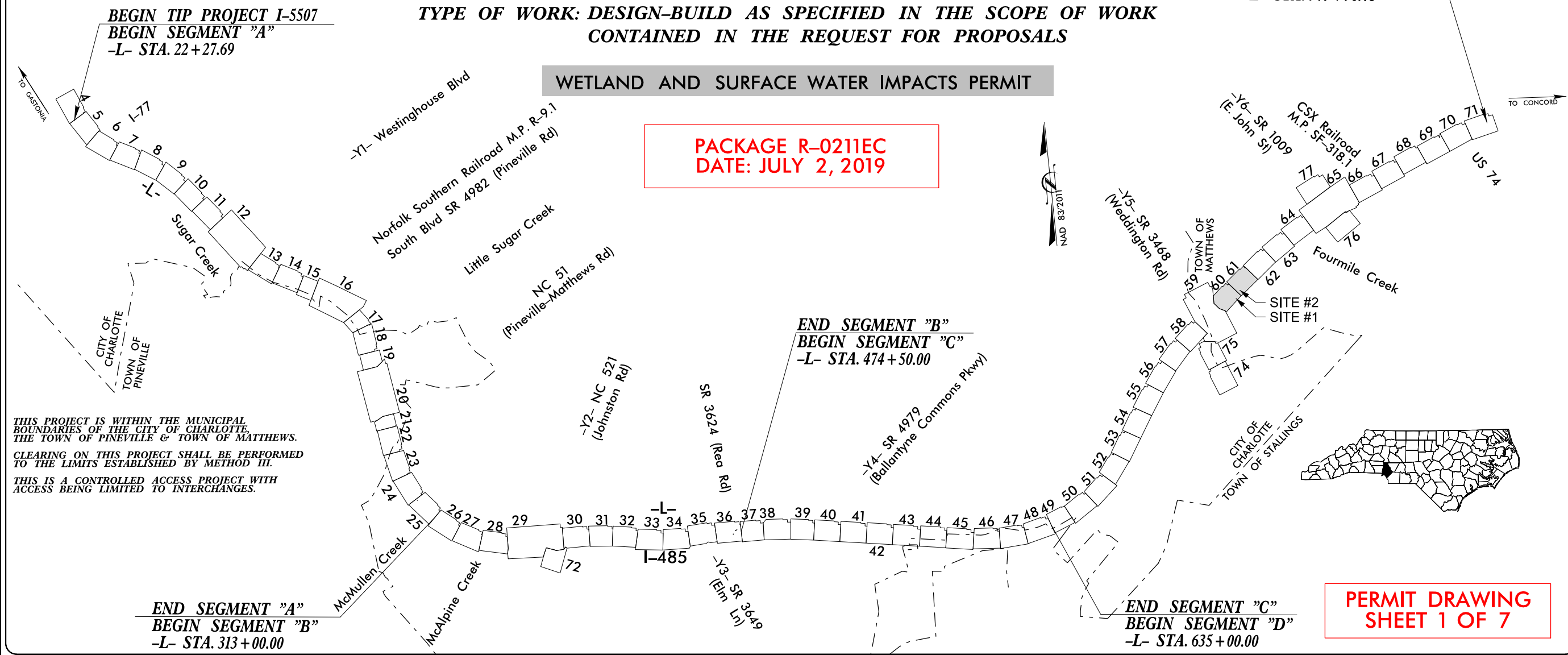
**TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK
CONTAINED IN THE REQUEST FOR PROPOSALS**

**END TIP PROJECT I-5507
END SEGMENT "D"
-L- STA. 947+96.48**

**BEGIN TIP PROJECT I-5507
BEGIN SEGMENT "A"
-L- STA. 22+27.69**

WETLAND AND SURFACE WATER IMPACTS PERMIT

**PACKAGE R-0211EC
DATE: JULY 2, 2019**



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF CHARLOTTE, THE TOWN OF PINEVILLE & TOWN OF MATTHEWS. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

**END SEGMENT "A"
BEGIN SEGMENT "B"
-L- STA. 313+00.00**

**END SEGMENT "B"
BEGIN SEGMENT "C"
-L- STA. 474+50.00**

**END SEGMENT "C"
BEGIN SEGMENT "D"
-L- STA. 635+00.00**

**PERMIT DRAWING
SHEET 1 OF 7**

TIP PROJECT: R-0211EC
CONTRACT: C203970

7/1/2019 \\prod\pww\cs0\ics_wor\kingdir\7111336401_2544\R-0211EC_hyd_prm_wet_psh01_TSH.dgn
PROP\C203970

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2018 = 118,400
ADT 2040 = 159,200
DHV = 9 %
D = 55 %
T = 9 % *
V = 70/75 MPH
*(TTST 4 + DUAL 5)

FUNCTIONAL CLASSIFICATION:
INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT I-5507 = 17.137 mi
LENGTH OF STRUCTURES TIP PROJECT I-5507 = 0.395 mi
(BASED ON 485 WB BRIDGES)
TOTAL LENGTH OF TIP PROJECT I-5507 = 17.532 mi

NCDOT CONTACT: TIM MCFADDEN, PE
DESIGN-BUILD PROJECT ENGINEER -
TRANSPORTATION PROGRAM MANAGEMENT UNIT

Prepared In the Office of:
wsp
1901 Morehead Square Dr.
Suite 610
Charlotte, NC, 28203
NC LIC NO. F-9165

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY:
SEPTEMBER 18, 2018

LETTING DATE:
SEPTEMBER 18, 2018

DANIEL H. BRIDGES, PE
DESIGN PROJECT MANAGER

DAVID B. GOURLEY, PE
PROJECT DESIGN ENGINEER

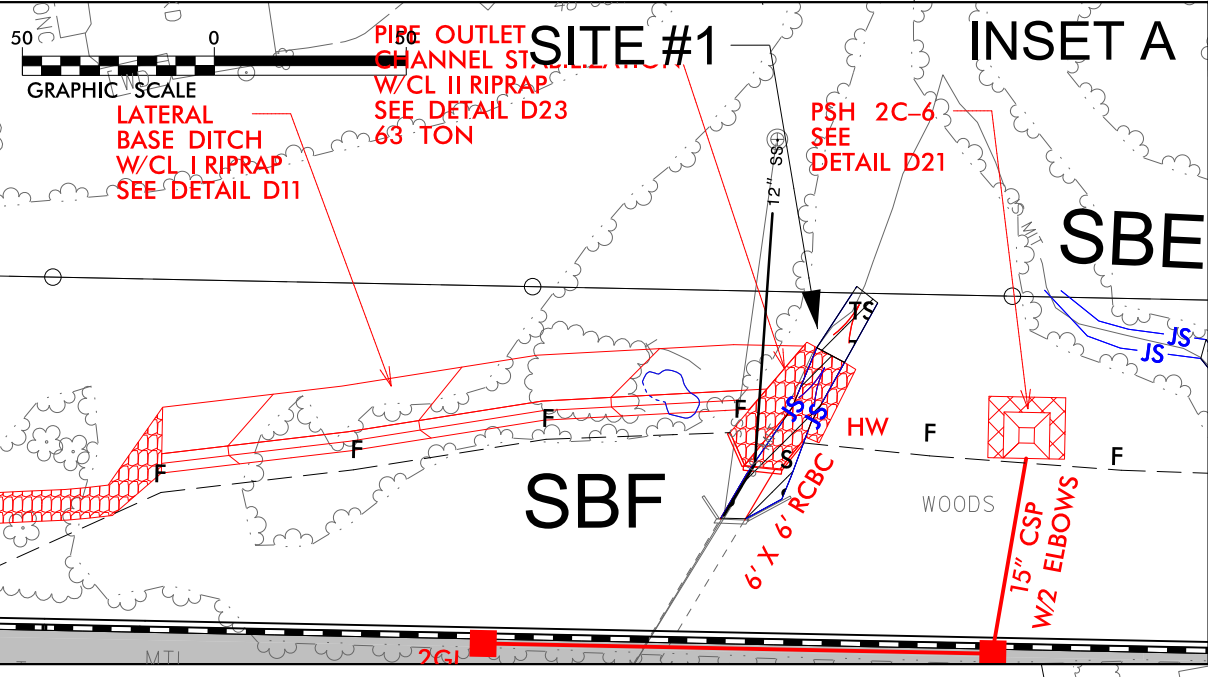
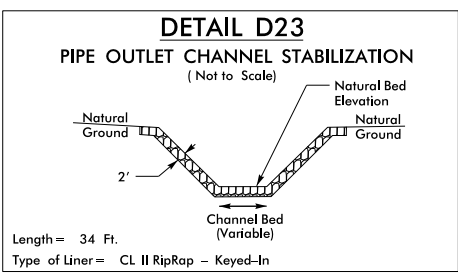
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

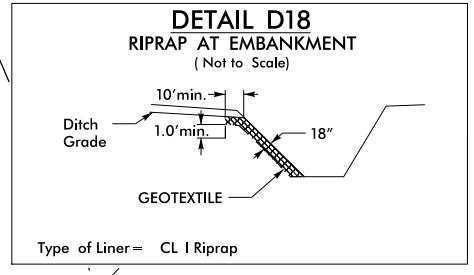
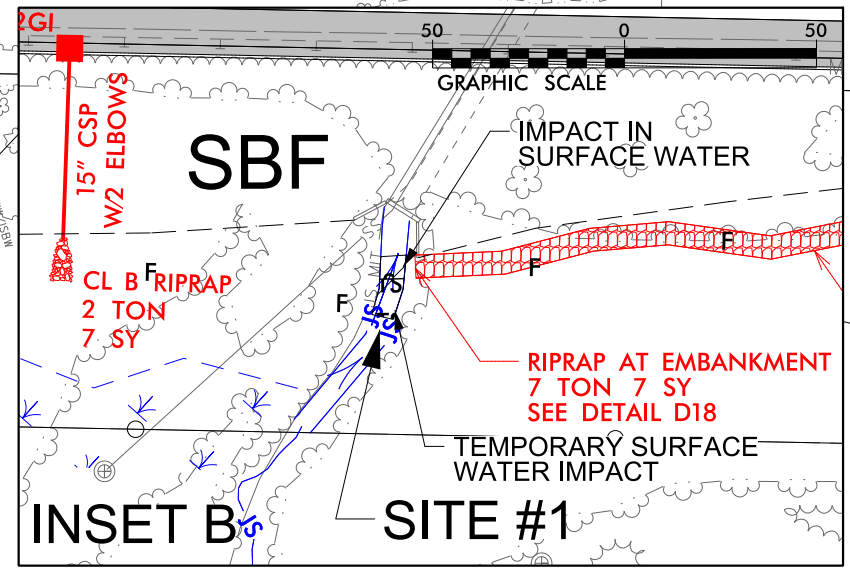
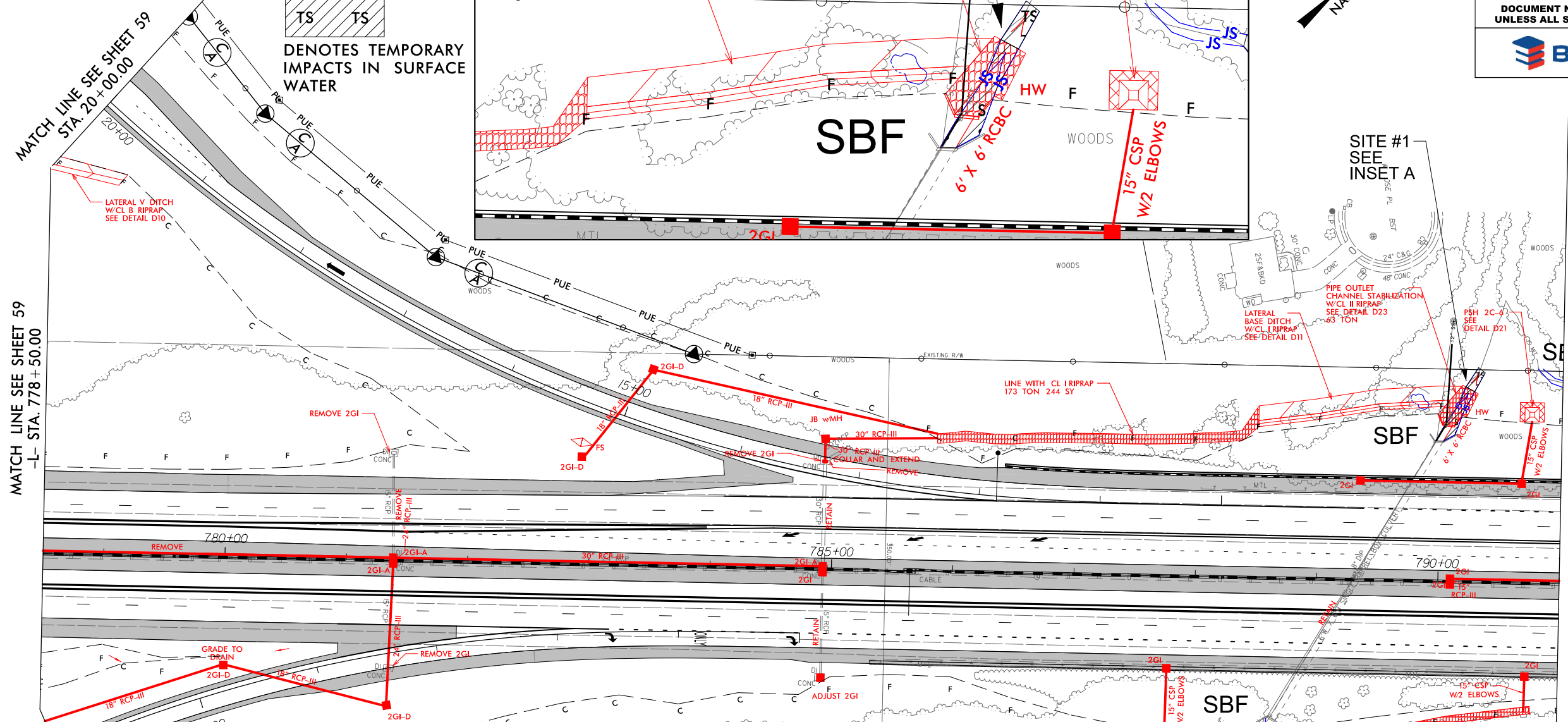
**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

PROJECT REFERENCE NO. R-0211EC	SHEET NO. 60
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



wsp 1001 Morehead Square Dr.
Suite 610
Charlotte NC, 28203
NC LIC NO. F-0165

NAD 83 2011



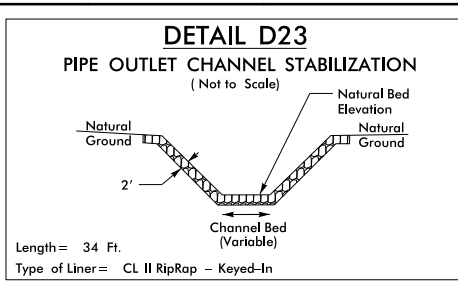
DENOTES IMPACTS IN SURFACE WATER
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

PERMIT DRAWING SHEET 2 OF 7



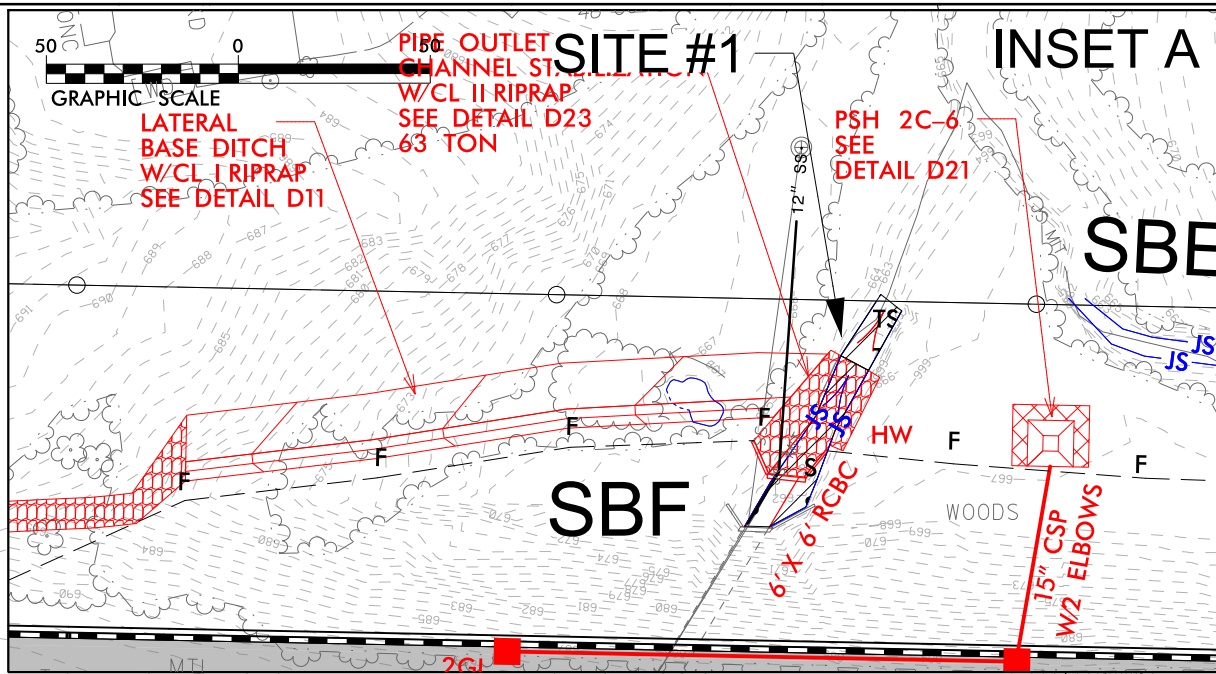
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8/17/99

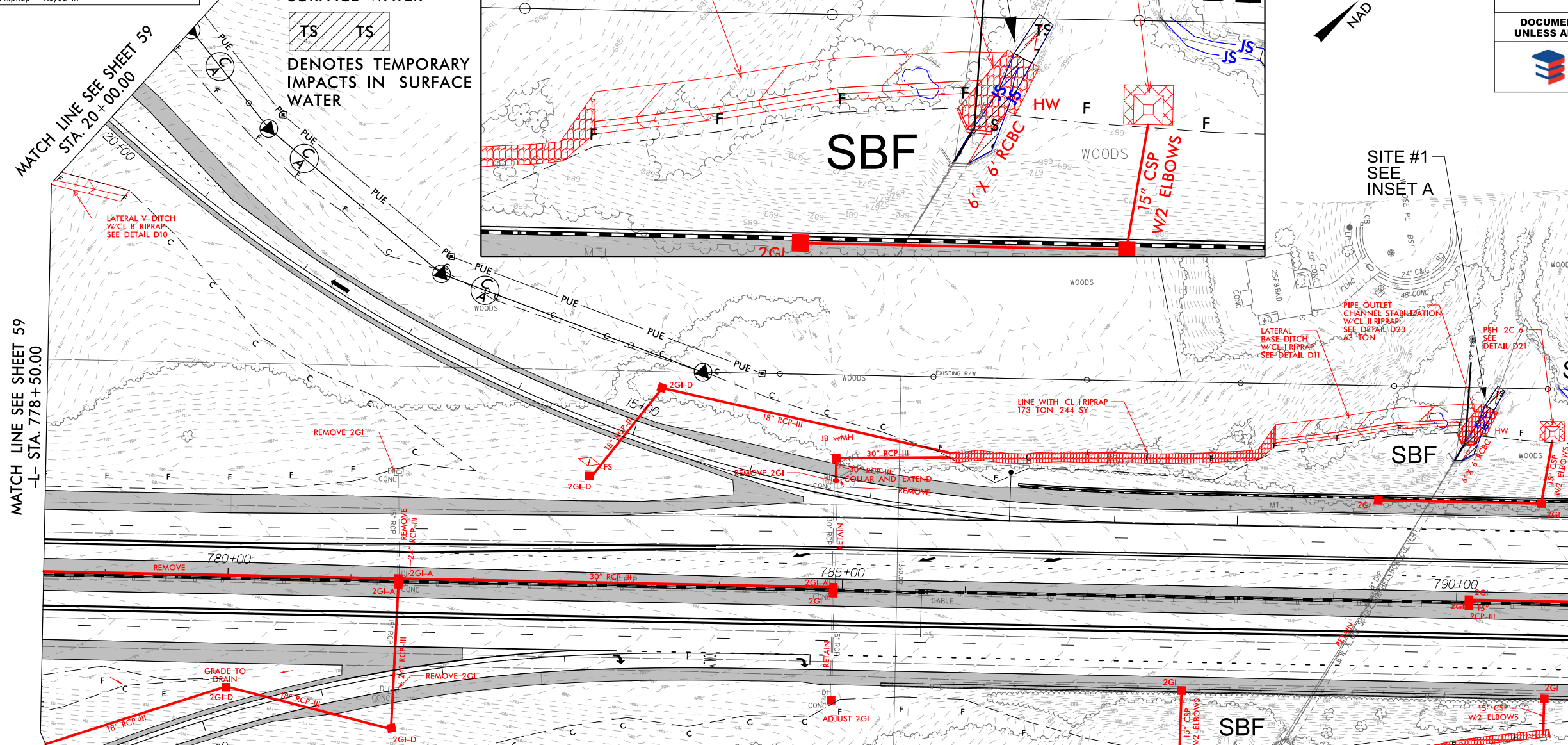


S S
DENOTES IMPACTS IN SURFACE WATER

TS TS
DENOTES TEMPORARY IMPACTS IN SURFACE WATER



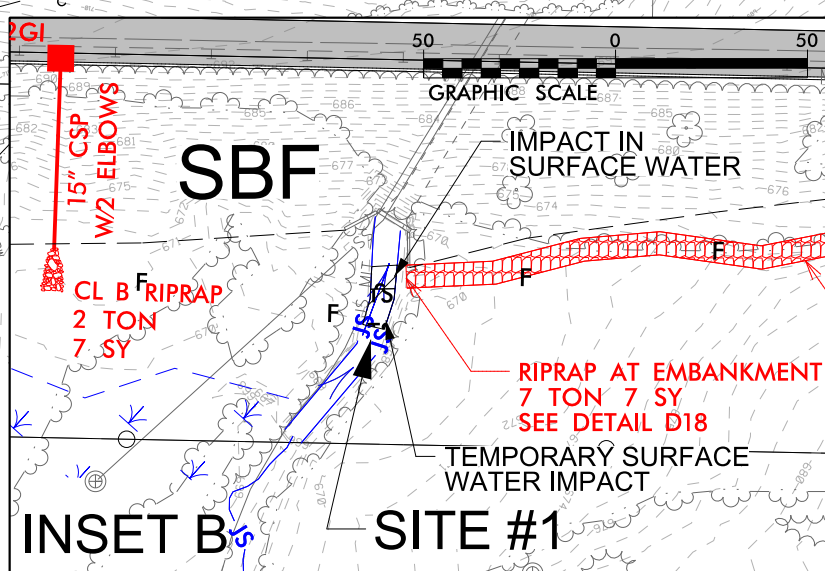
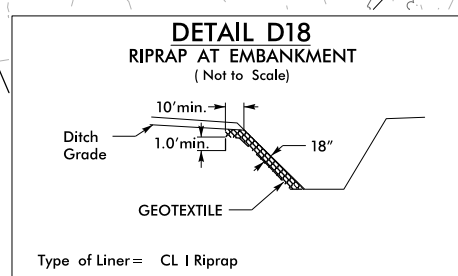
PROJECT REFERENCE NO. R-0211EC	SHEET NO. 60
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE SEE SHEET 59
-L- STA. 778 + 50.00

MATCH LINE SEE SHEET 59
STA. 16 + 25.00

MATCH LINE SEE SHEET 61
-L- STA. 791 + 00.00



S S
DENOTES IMPACTS IN SURFACE WATER

TS TS
DENOTES TEMPORARY IMPACTS IN SURFACE WATER

GRAPHIC SCALE

PERMIT DRAWING SHEET 3 OF 7

7/1/2019 11:53:01 AM C:\pwworkingdir\17125\336401_2549\R-0211EC-Hyd_prm_wet_psh60_cont.dgn

5/28/99

PROJECT REFERENCE NO. R-0211EC	SHEET NO. 60-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SITE #1

730

720

710

700

690

680

670

660

650

640

630

710

700

690

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670

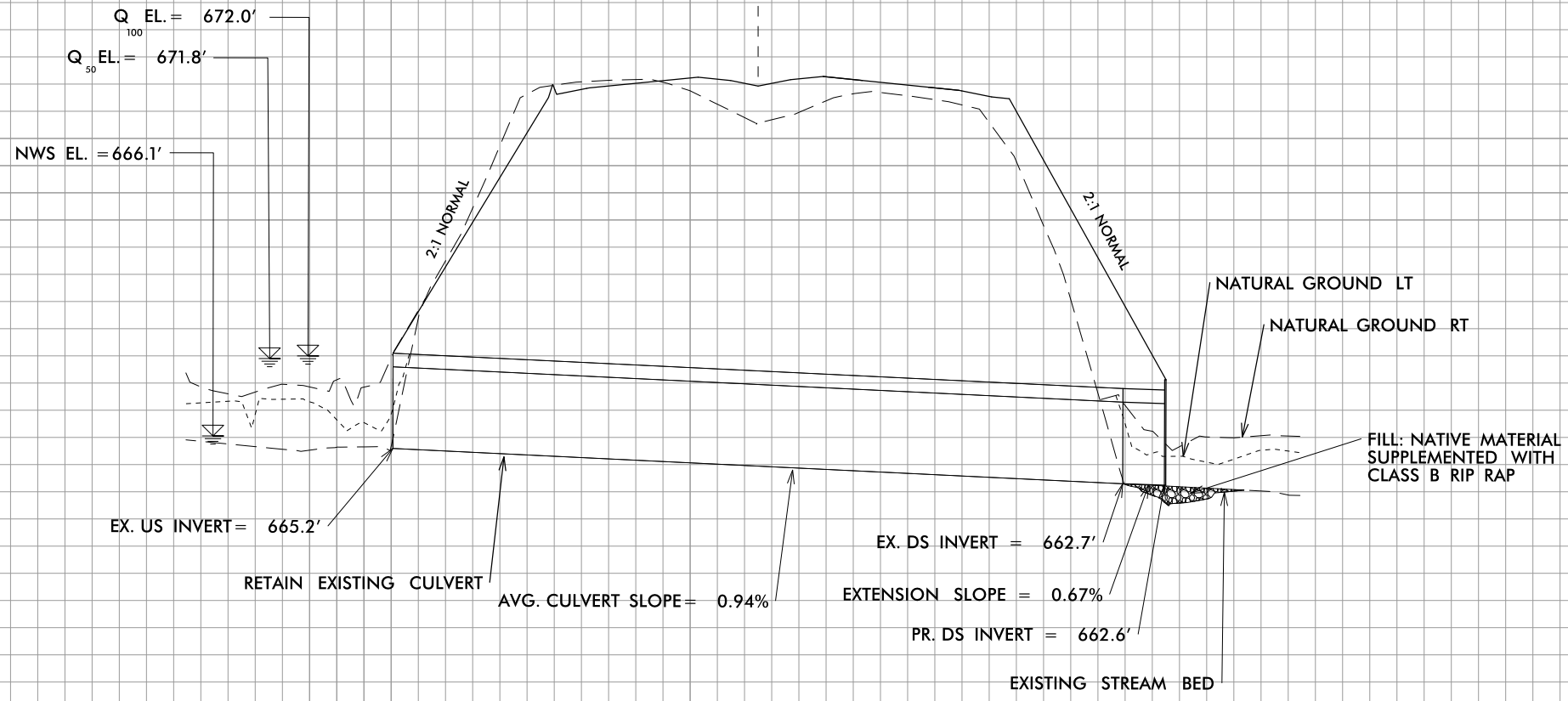
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650

640

630

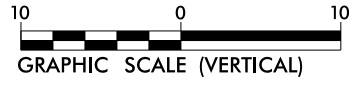
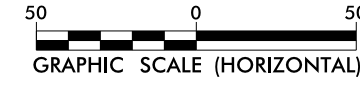
-L- STA. 789 + 30
6'X6' RCBC
(DS EXTENSION)
120° SKEW w/HEADWALLS



CULVERT PROFILE AT -L- STA. 789 + 30 (Stream SBF)

2 + 00 1 + 00 0 + 00 1 + 00 2 + 00 3 + 00

PERMIT DRAWING
SHEET 4 OF 7



7/1/2019
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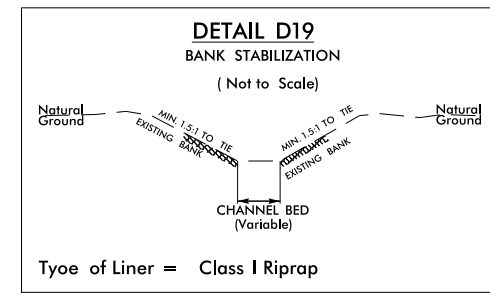
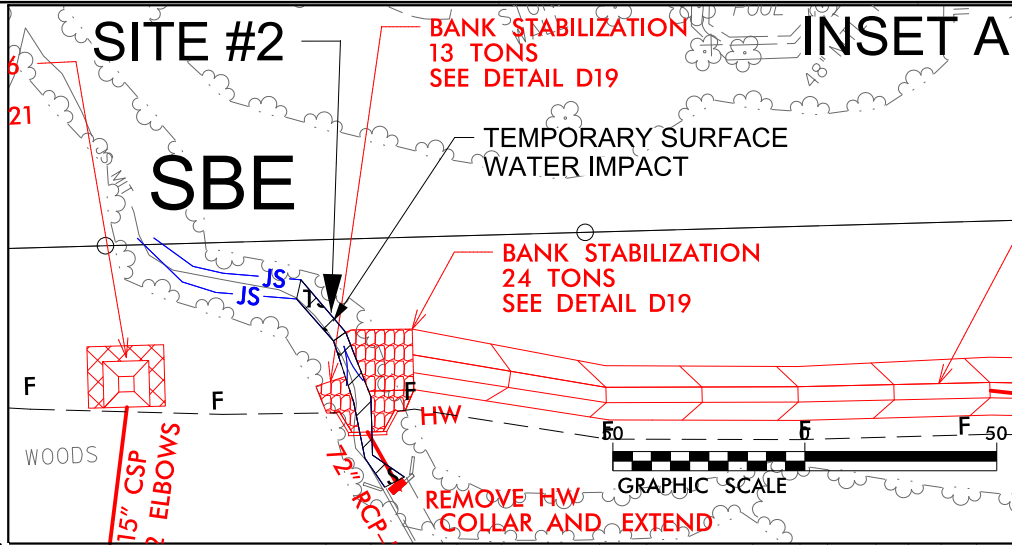
8/17/99



DENOTES IMPACTS IN SURFACE WATER

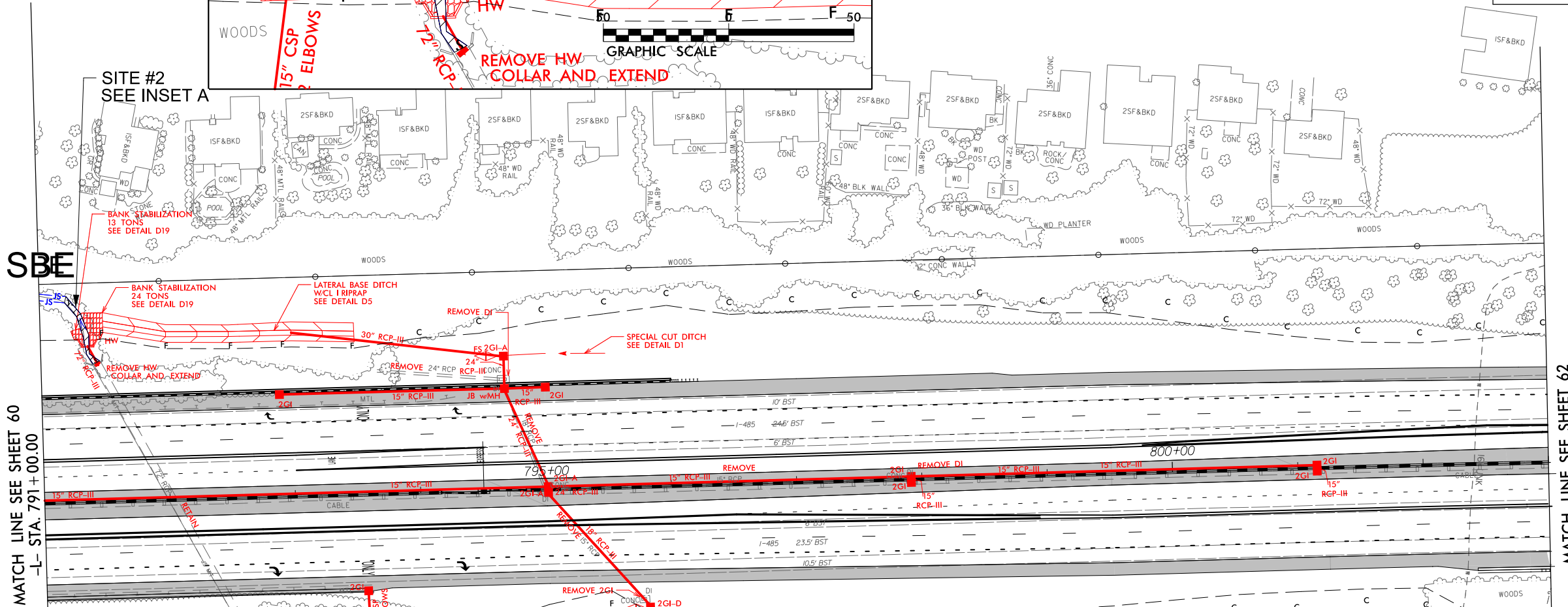


DENOTES TEMPORARY IMPACTS IN SURFACE WATER



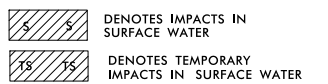
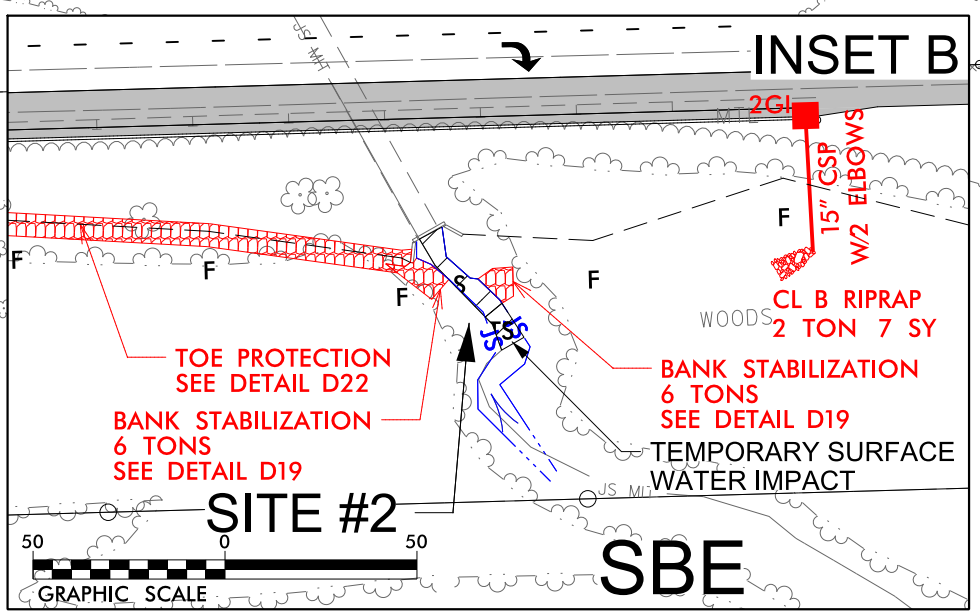
wsp 1001 Morehead Square Dr.
Suite 610
Charlotte NC, 28203
NC LIC NO. F-0165

PROJECT REFERENCE NO. R-0211EC	SHEET NO. 61
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

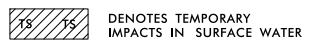


MATCH LINE SEE SHEET 60
-L- STA. 791+00.00

MATCH LINE SEE SHEET 62
-L- STA. 803+00.00

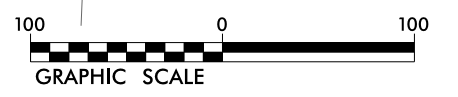


DENOTES IMPACTS IN SURFACE WATER



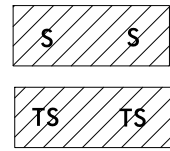
DENOTES TEMPORARY IMPACTS IN SURFACE WATER

PERMIT DRAWING
SHEET 5 OF 7

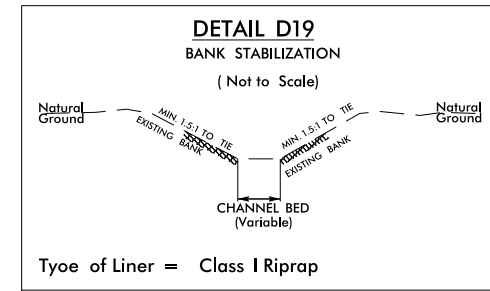
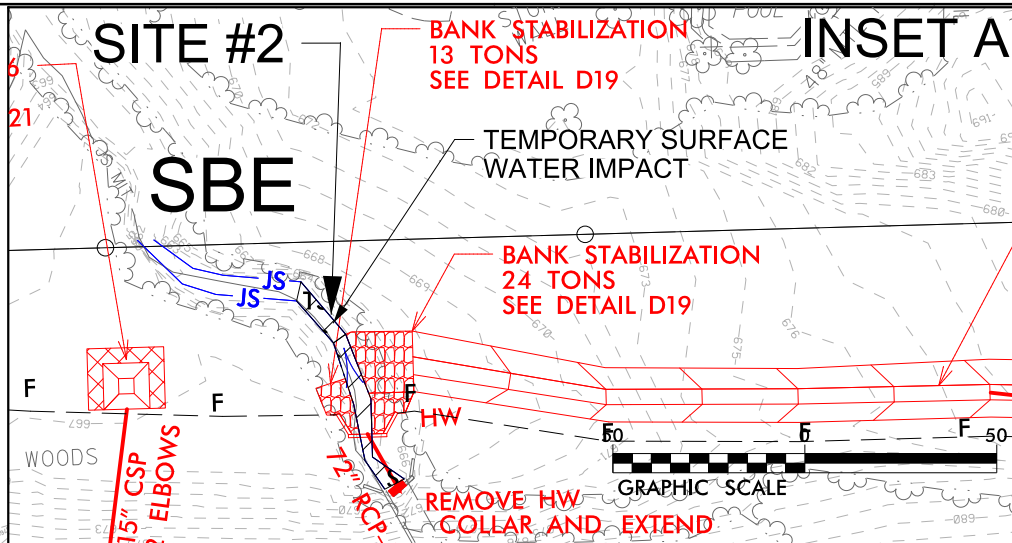


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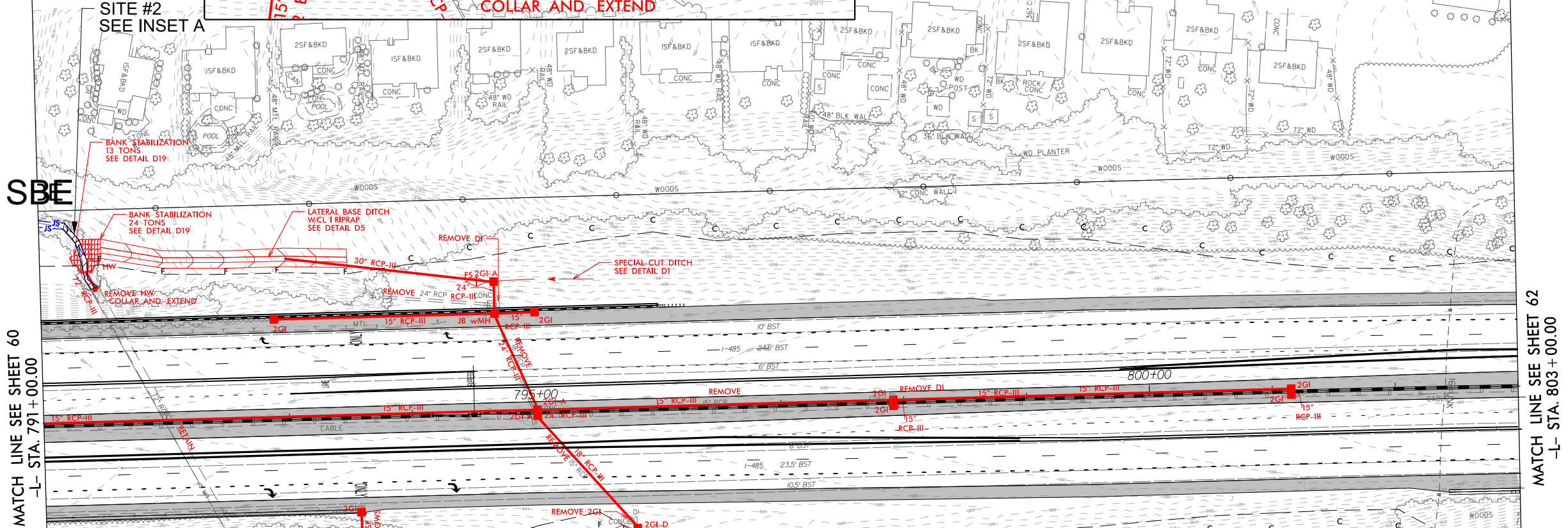


DENOTES IMPACTS IN SURFACE WATER
DENOTES TEMPORARY IMPACTS IN SURFACE WATER



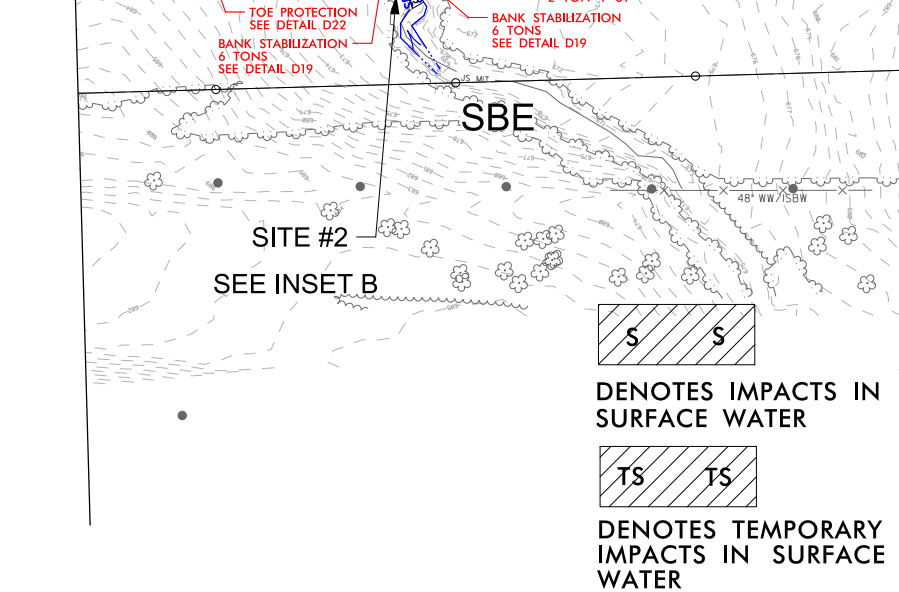
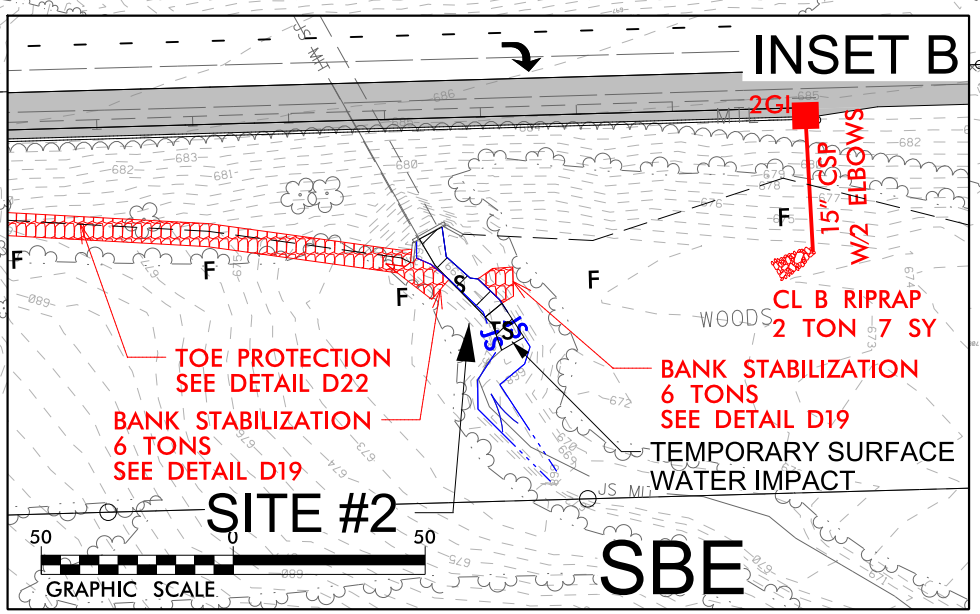
wsp 1001 Morehead Square Dr. Suite 610 Charlotte NC, 28203 NC LIC NO. F-0165

PROJECT REFERENCE NO. R-0211EC	SHEET NO. 61
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE SEE SHEET 60
-L- STA. 791+00.00

MATCH LINE SEE SHEET 62
-L- STA. 803+00.00

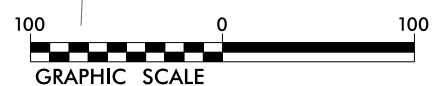


MATCH LINE SEE SHEET 60
-L- STA. 791+00.00

MATCH LINE SEE SHEET 62
-L- STA. 803+00.00



PERMIT DRAWING SHEET 6 OF 7



7/1/2019
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WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	790+00 -L-	Extend 6' x 6' RCBC						< 0.01		16		
1	788+50/790+00 -L	Riprap Fill						< 0.01	< 0.01	40	29	
2	791+30 -L-	Extend 72" RCP						< 0.01		16		
2	791+30/792+70 -L-	Bank Stabilization						< 0.01	< 0.01	53	27	
TOTALS*:								0.02	< 0.01	125	56	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 07/2/2019
 MECKLENBURG
 TIP NO. R-0211EC
 WBS NO. 34331.1.7
 SHEET 7 OF 7