

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4714AB	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
43609.3.2	N/A	Design-Build	

TIP PROJECT: U-4714AB

CONTRACT: C203970

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**

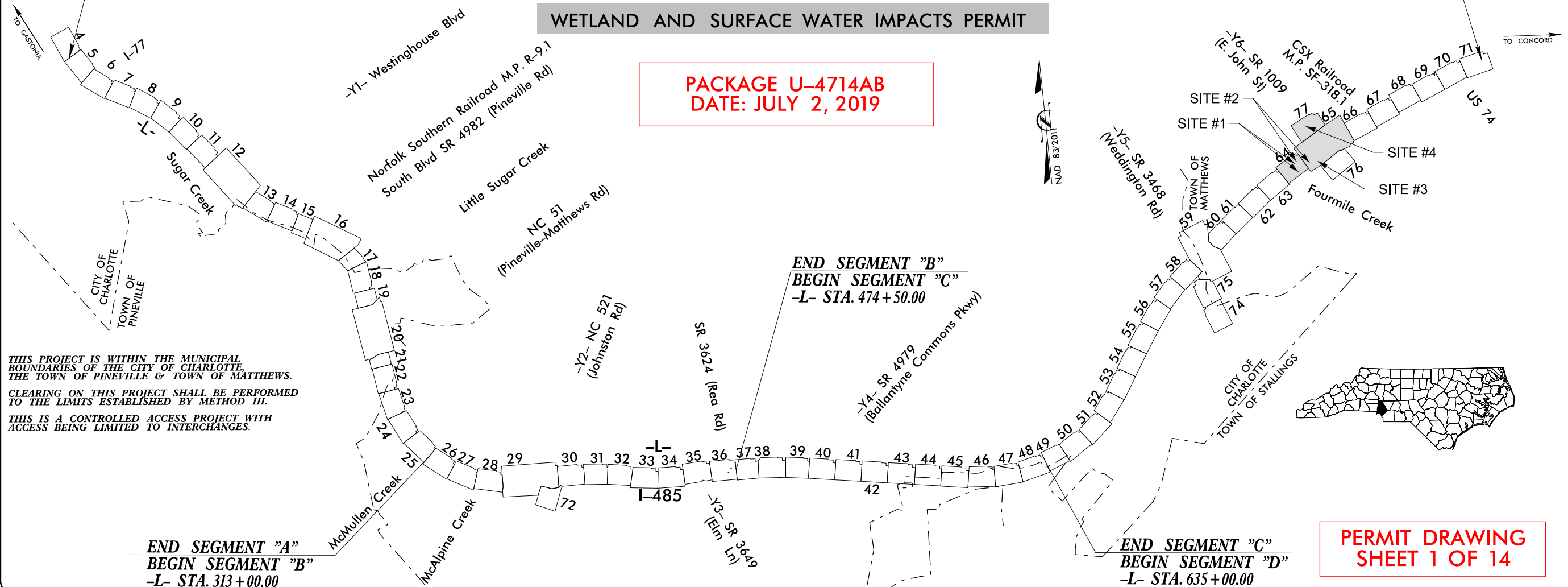
**TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK
CONTAINED IN THE REQUEST FOR PROPOSALS**

**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 U-4714AB
DATE: JULY 2, 2019**



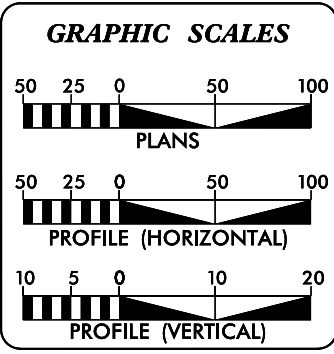
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF CHARLOTTE, THE TOWN OF PINEVILLE & TOWN OF MATTHEWS. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

**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 14**



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-0165

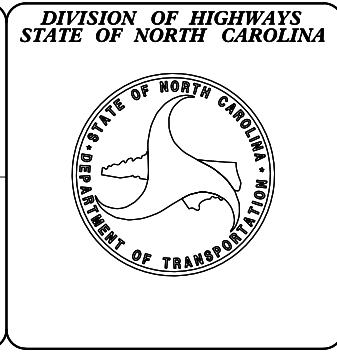
FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY: SEPTEMBER 18, 2018	DANIEL H. BRIDGES, PE DESIGN PROJECT MANAGER
LETTING DATE: SEPTEMBER 18, 2018	DAVID B. GOURLEY, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



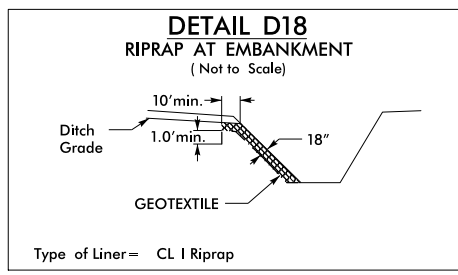
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PROP\WCS01\$

8/17/99

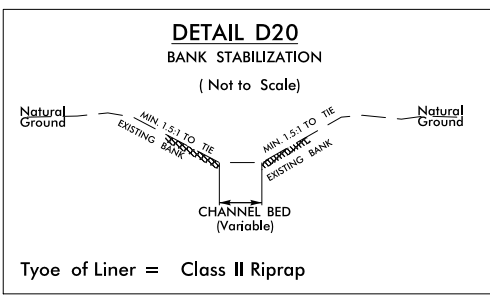
wsp 1001 Morehead Square Dr. Suite 610 Charlotte NC, 28203 NC LIC NO. F-0165

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 64
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

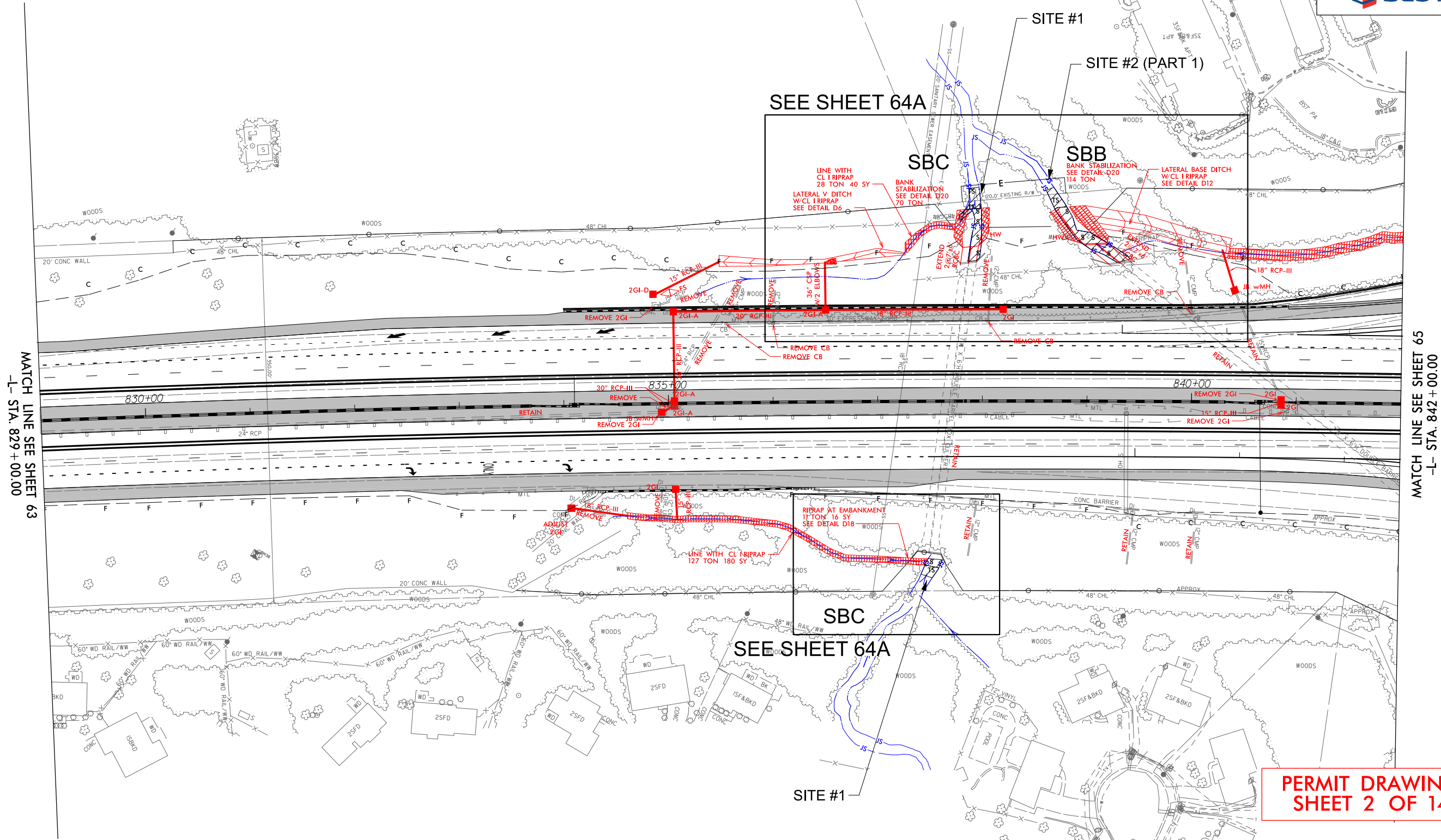
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



NOTE: APPLY TO EITHER BANK AS SHOWN ON THE PLANS.



- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



MATCH LINE SEE SHEET 63
-L- STA. 829 + 00.00

MATCH LINE SEE SHEET 65
-L- STA. 842 + 00.00

PERMIT DRAWING
SHEET 2 OF 14

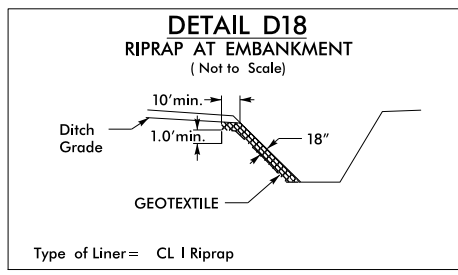


7/2/2019
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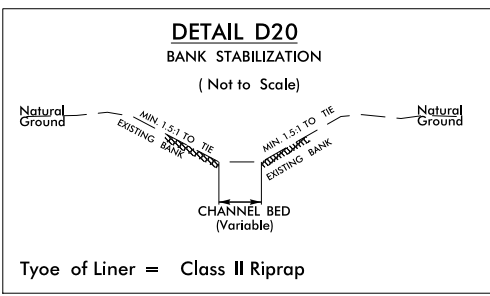
8/17/99

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

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 64
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

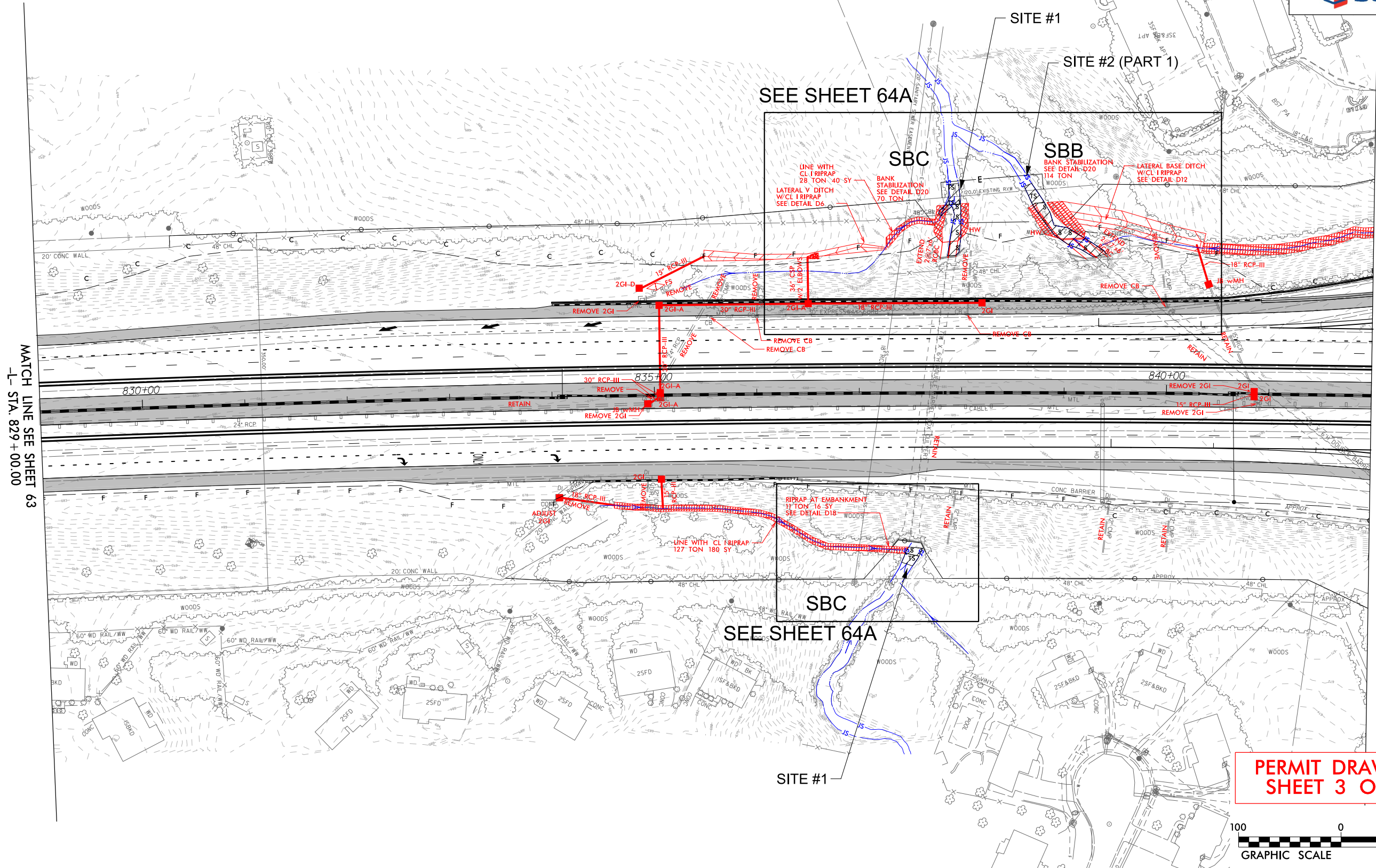


NOTE: APPLY TO EITHER BANK AS SHOWN ON THE PLANS.



DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PERMIT DRAWING SHEET 3 OF 14



7/2/2019 P:\p-cad\lgs01\ics_workingdir\17163_336401_2565\U-4714AB_Hyd.prm_wet.psh64_cont.dgn

8/17/99



DENOTES IMPACTS IN SURFACE WATER

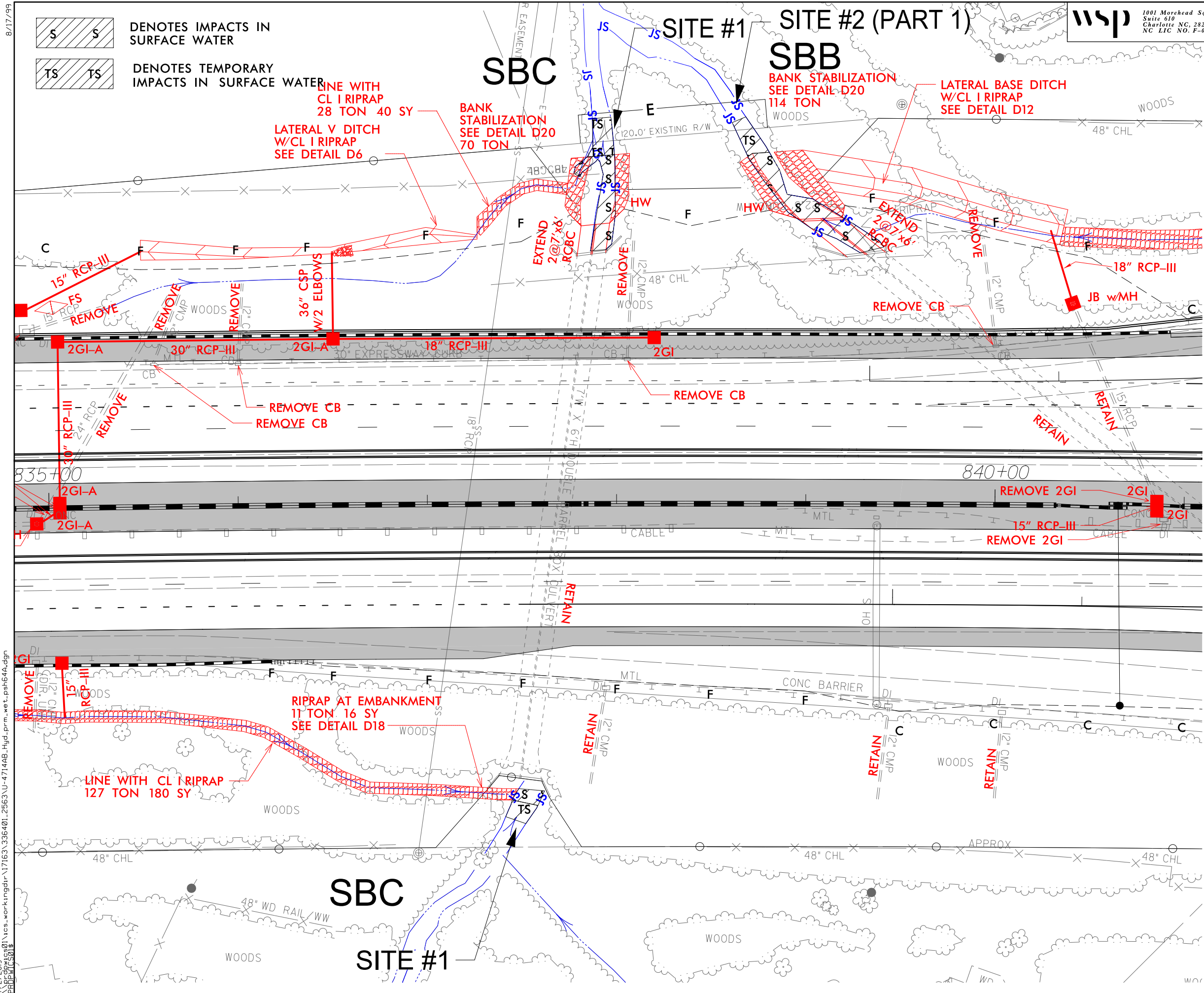
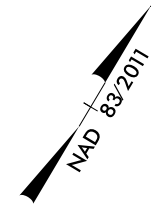


DENOTES TEMPORARY IMPACTS IN SURFACE WATER

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

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 64A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PERMIT DRAWING SHEET 4 OF 14



7/2/2019
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8/17/99



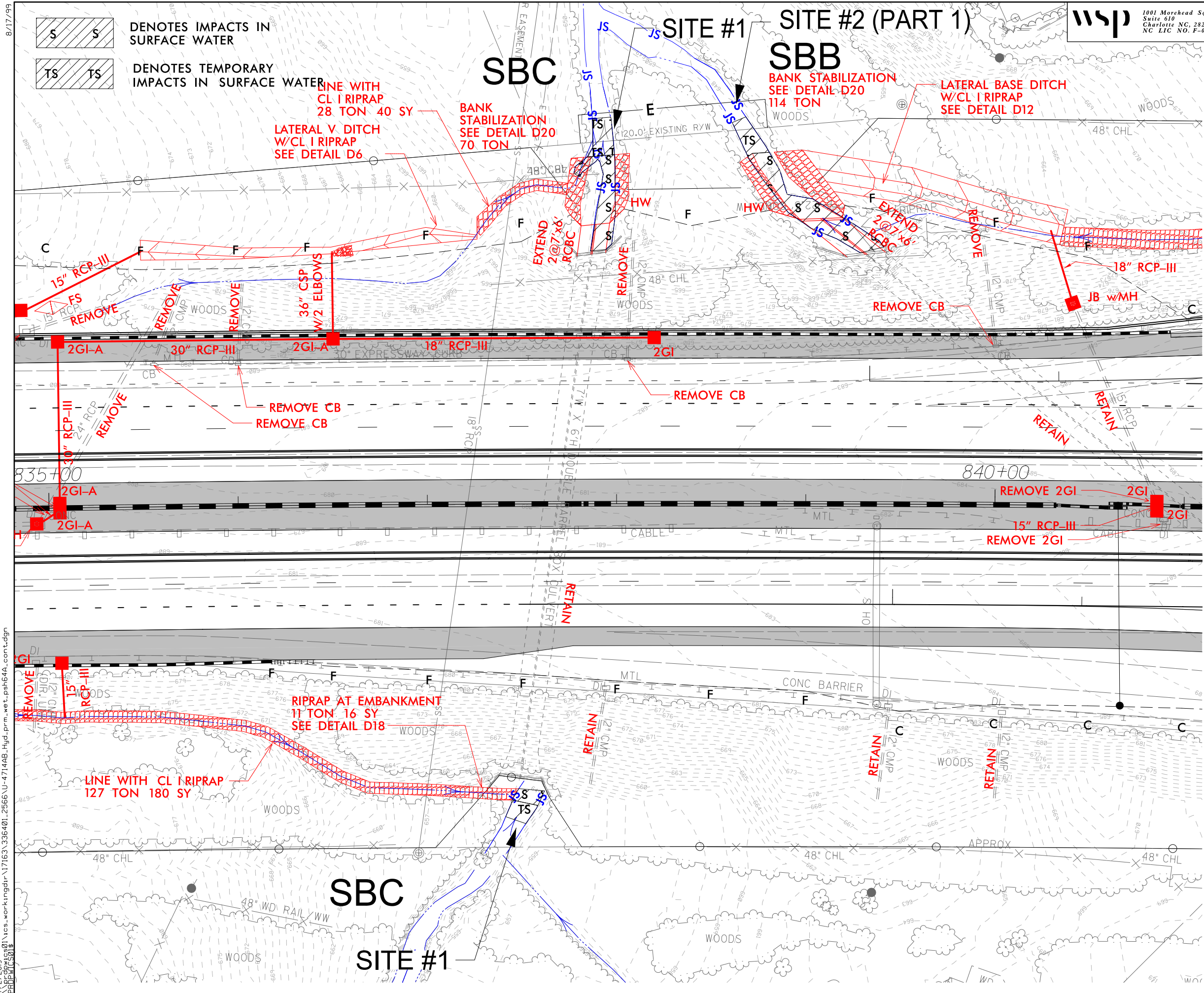
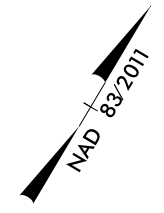
DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

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

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 64A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**PERMIT DRAWING
SHEET 5 OF 14**

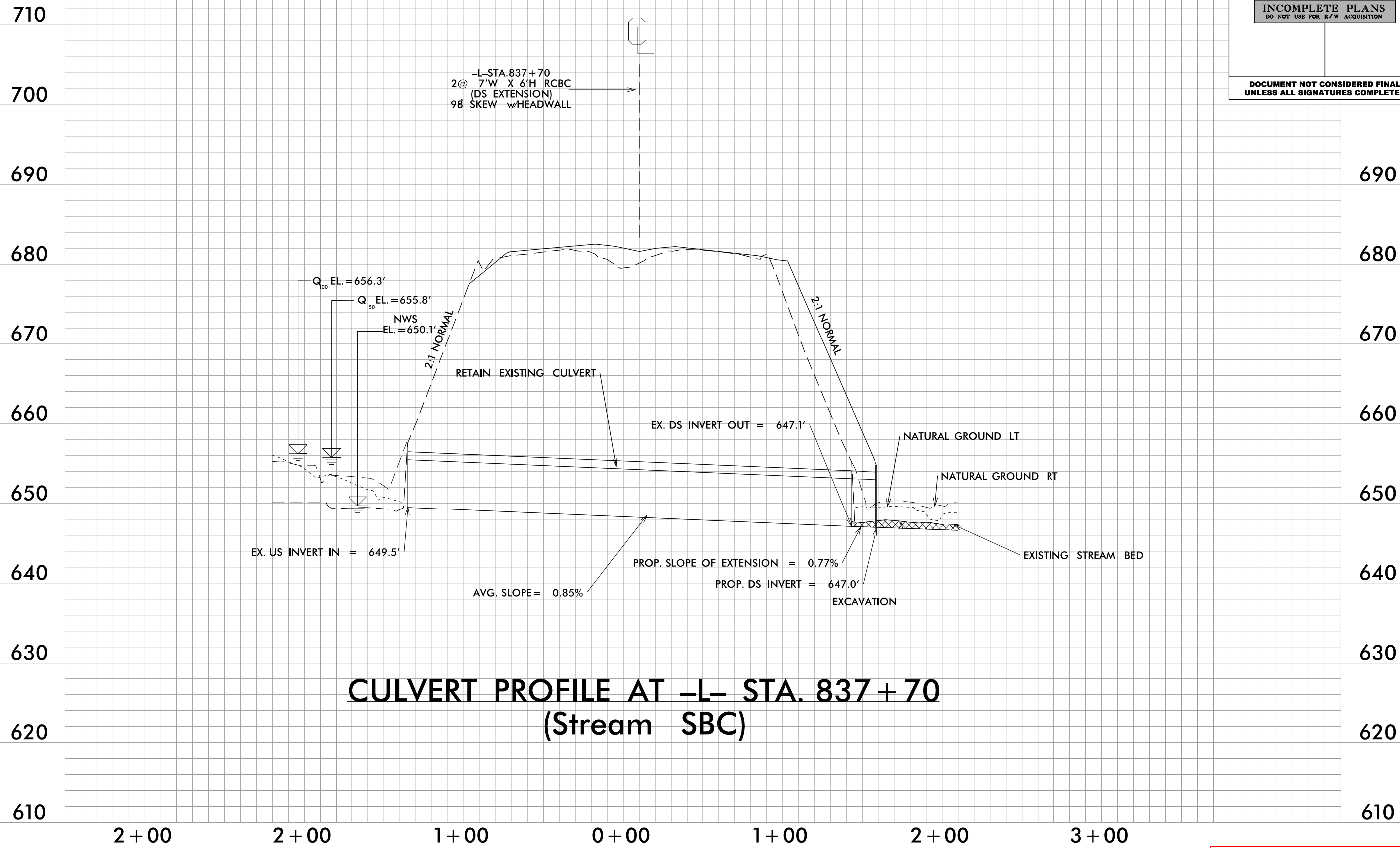


7/2/2019
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5/28/99

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 64-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

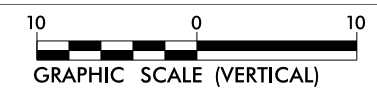
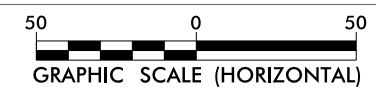
SITE #1



CULVERT PROFILE AT -L- STA. 837+70 (Stream SBC)

7/2/2019
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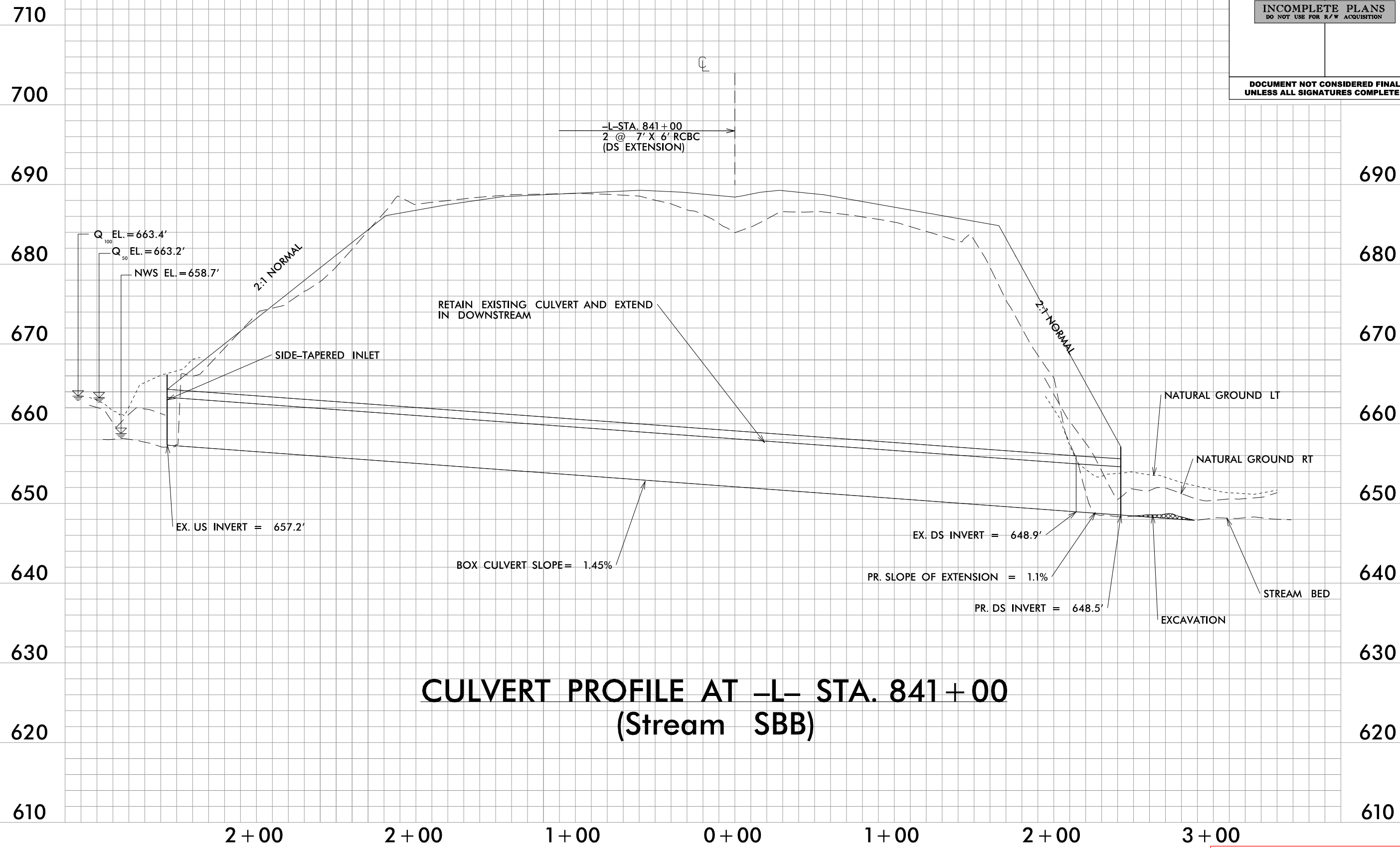
**PERMIT DRAWING
SHEET 6 OF 14**



5/28/99

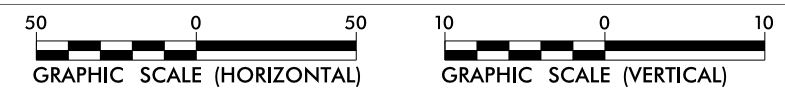
SITE #2

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 64-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CULVERT PROFILE AT -L- STA. 841+00 (Stream SBB)

**PERMIT DRAWING
SHEET 7 OF 14**



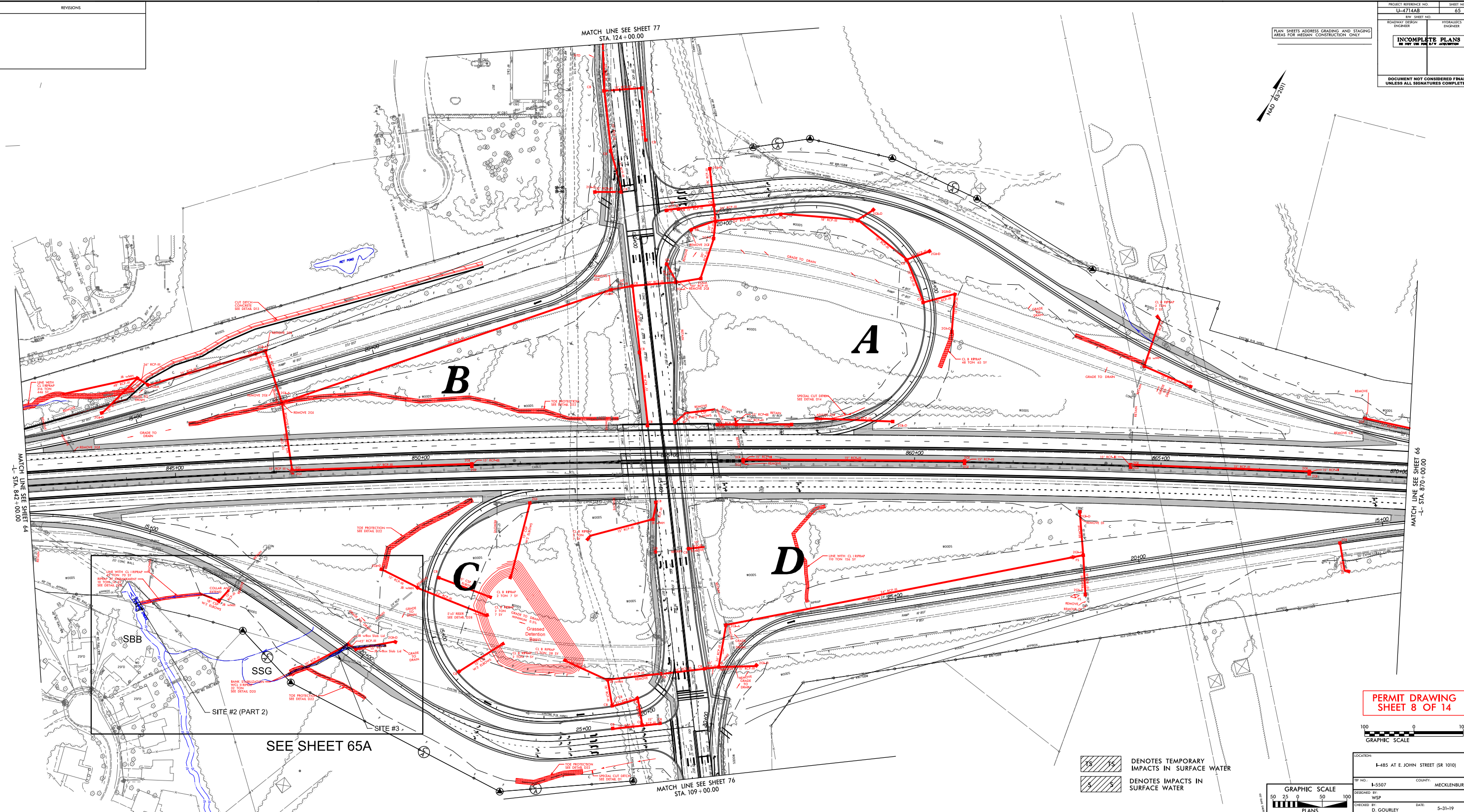
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REVISIONS

MATCH LINE SEE SHEET 77
STA. 124+00.00

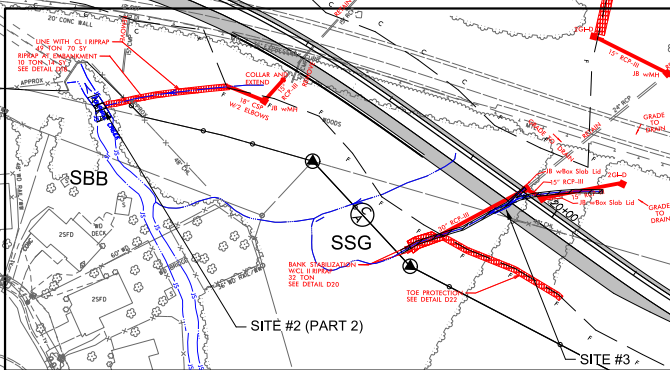
PLAN SHEETS ADDRESS GRADING AND STAGING
AREAS FOR MEDIAN CONSTRUCTION ONLY

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 65
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR BIDDING	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE SEE SHEET 64
STA. 842+00.00

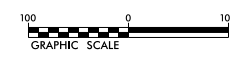
MATCH LINE SEE SHEET 66
STA. 870+00.00



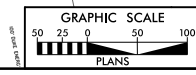
SEE SHEET 65A

MATCH LINE SEE SHEET 76
STA. 109+00.00

PERMIT DRAWING
SHEET 8 OF 14



- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER



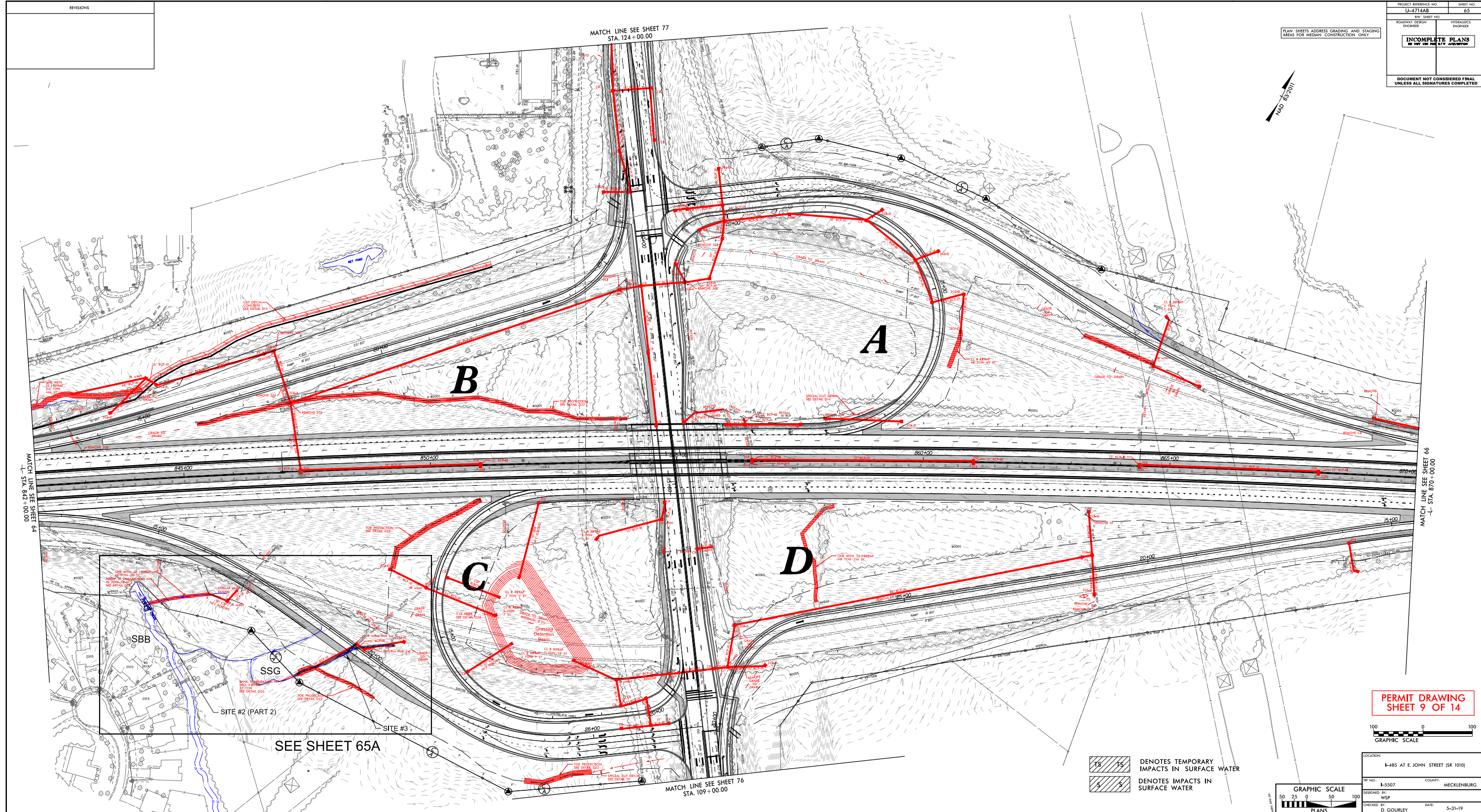
LOCATION I-485 AT E. JOHN STREET (SR 1010)	COUNTY MECKLENBURG
TP NO. I-5507	DESIGNED BY WSP
CHECKED BY D. GOURLEY	DATE 5-31-19

REVISIONS

MATCH LINE SEE SHEET 77
STA. 124+00.00

PLAN SHEETS ADDRESS GRADING AND STAGING
AREAS FOR MEDIAN CONSTRUCTION ONLY

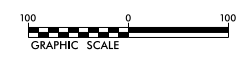
PROJECT REFERENCE NO. U-4714AB	SHEET NO. 65
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR BIDDING	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



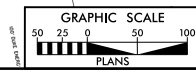
MATCH LINE SEE SHEET 64
STA. 842+00.00

MATCH LINE SEE SHEET 66
STA. 870+00.00

PERMIT DRAWING
SHEET 9 OF 14



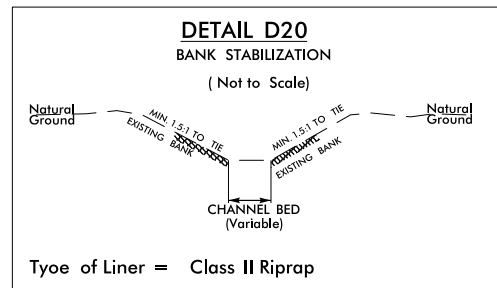
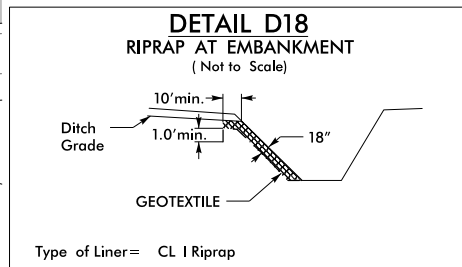
DENOTES TEMPORARY IMPACTS IN SURFACE WATER
 DENOTES IMPACTS IN SURFACE WATER



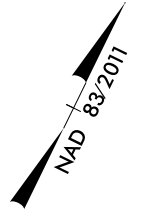
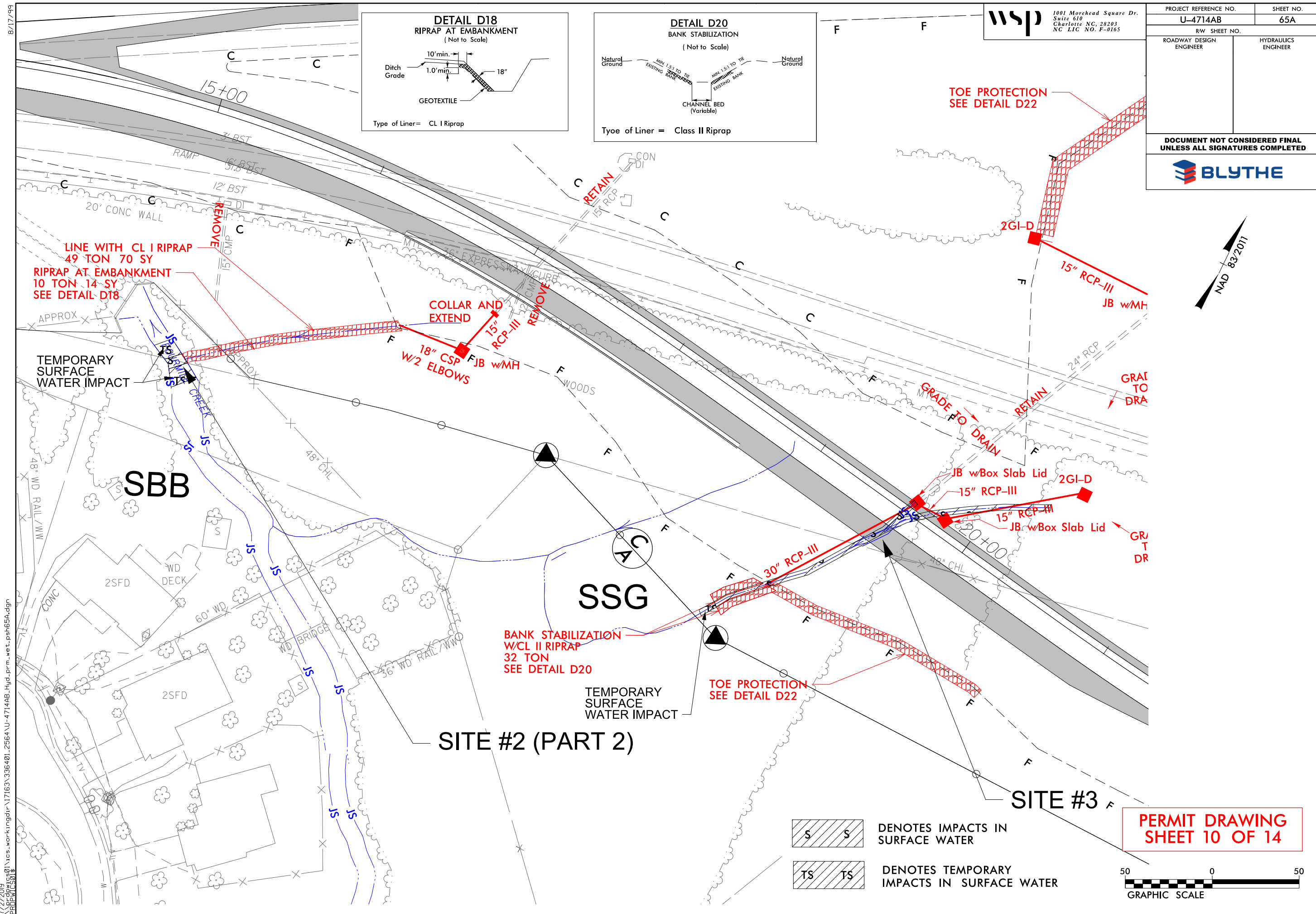
LOCATION: I-485 AT E JOHN STREET (SR 1010)	COUNTY: MECKLENBURG
TP NO.: I-5507	DESIGNED BY: WSP
CHECKED BY: D. GOURLEY	DATE: 5-31-19

8/17/99

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 65A
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




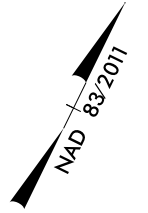
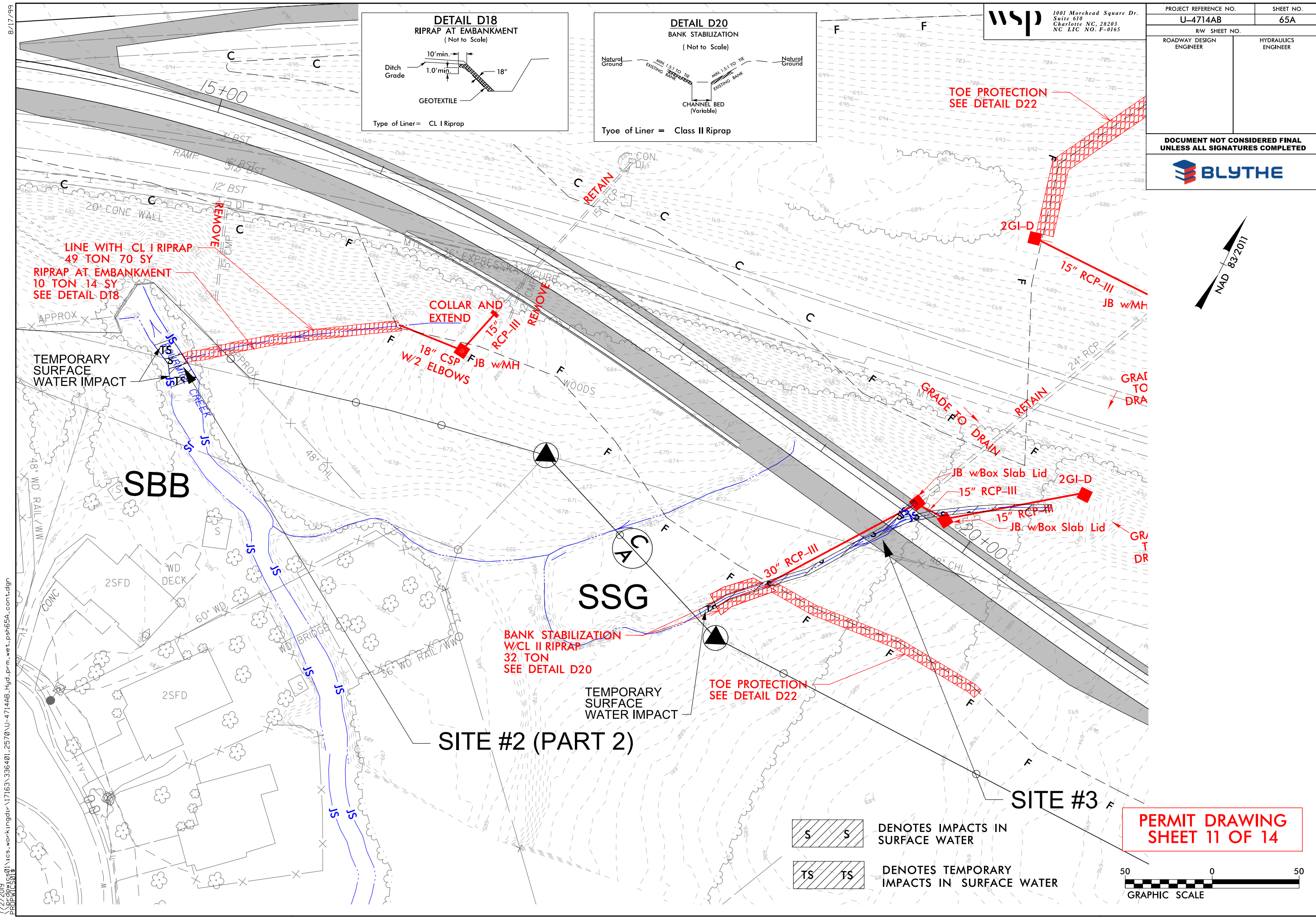
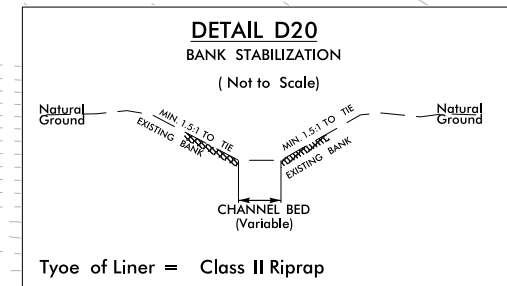
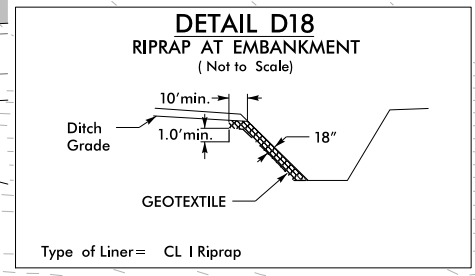
PERMIT DRAWING SHEET 10 OF 14



7/2/2019
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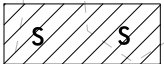
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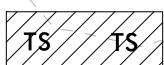
PROJECT REFERENCE NO.	SHEET NO.
U-4714AB	65A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



7/2/2019
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PERMIT DRAWING SHEET 11 OF 14

 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

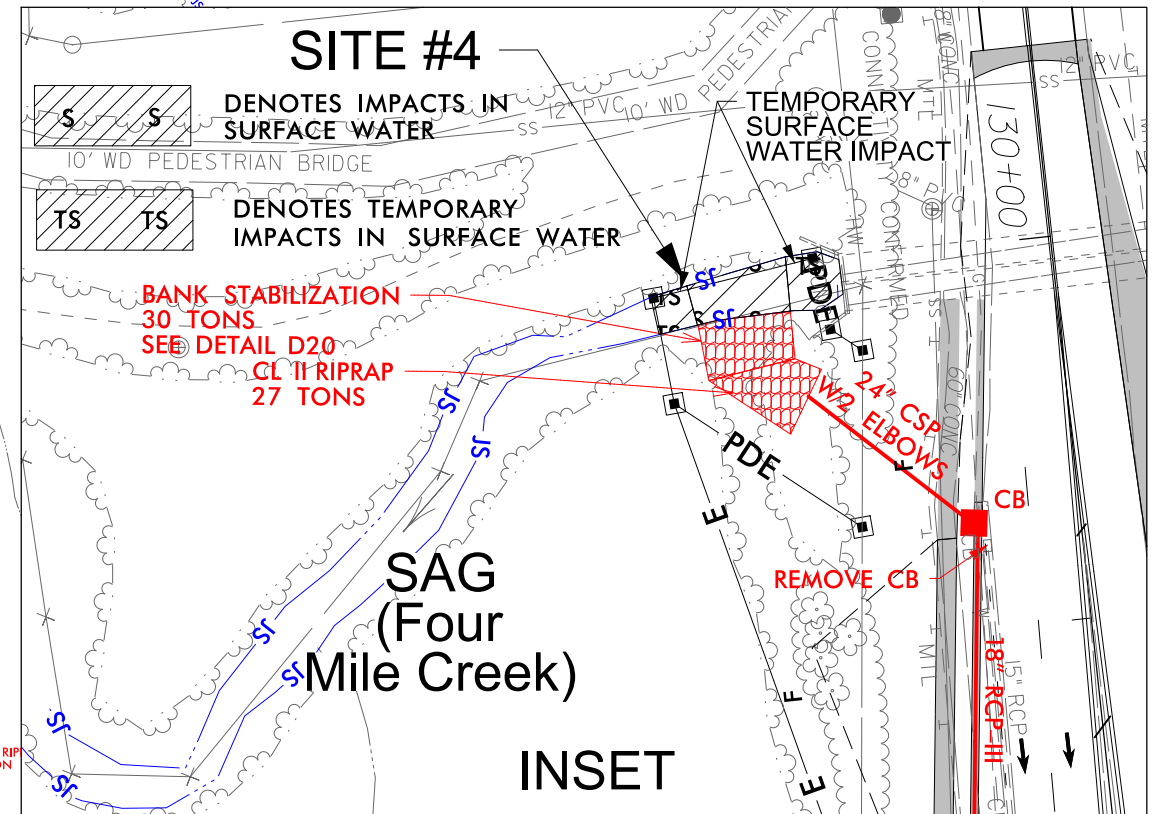
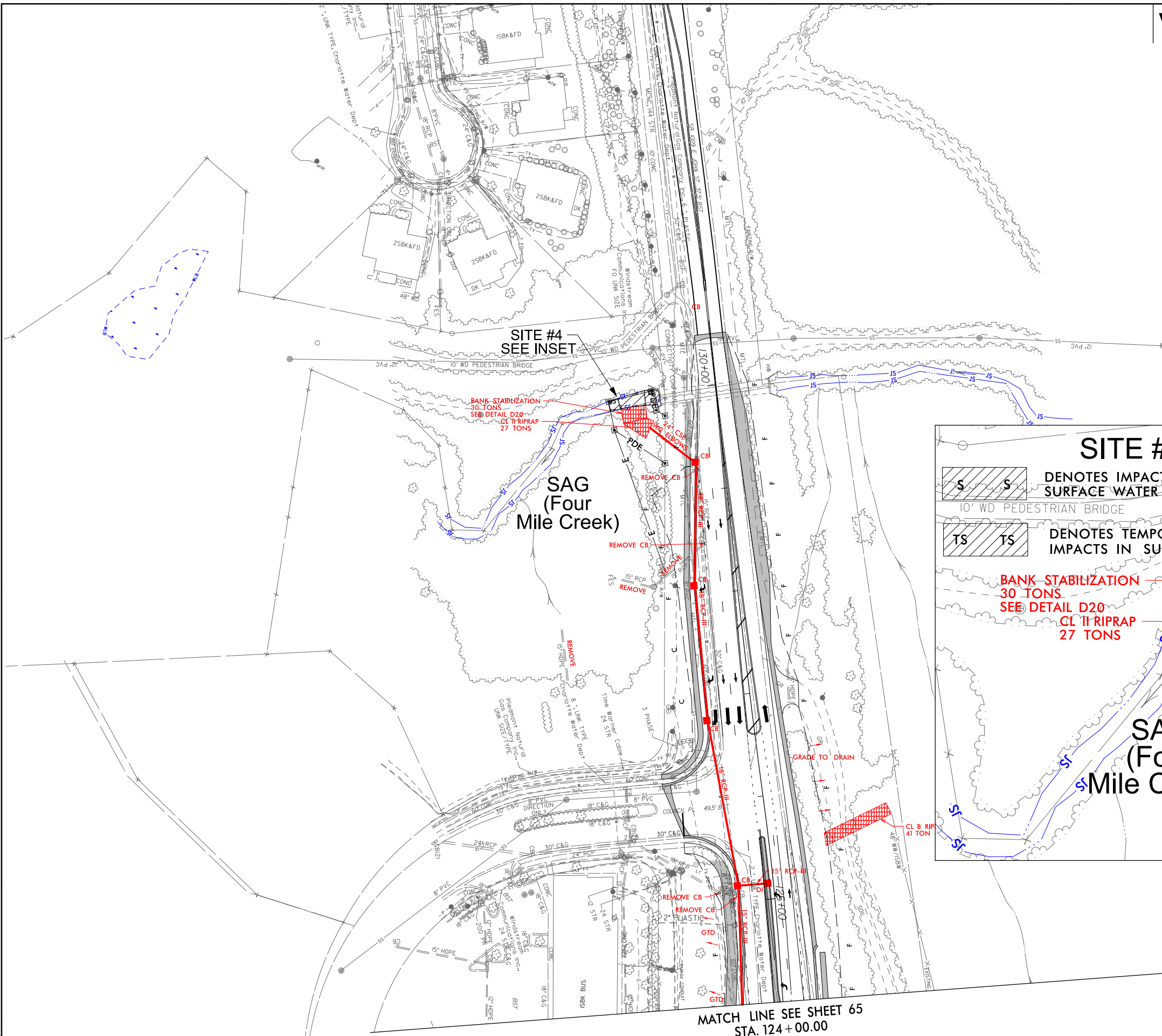
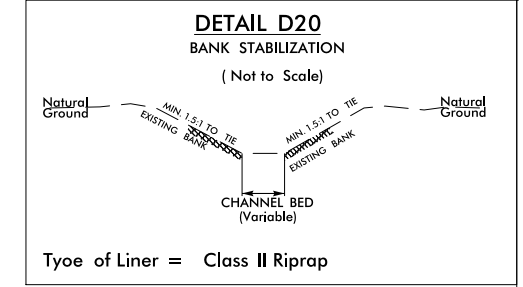
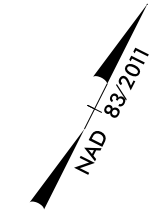


8/17/99

7/2/2019
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PAH77\WCS01E

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

PROJECT REFERENCE NO. U-4714AB		SHEET NO. 77
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



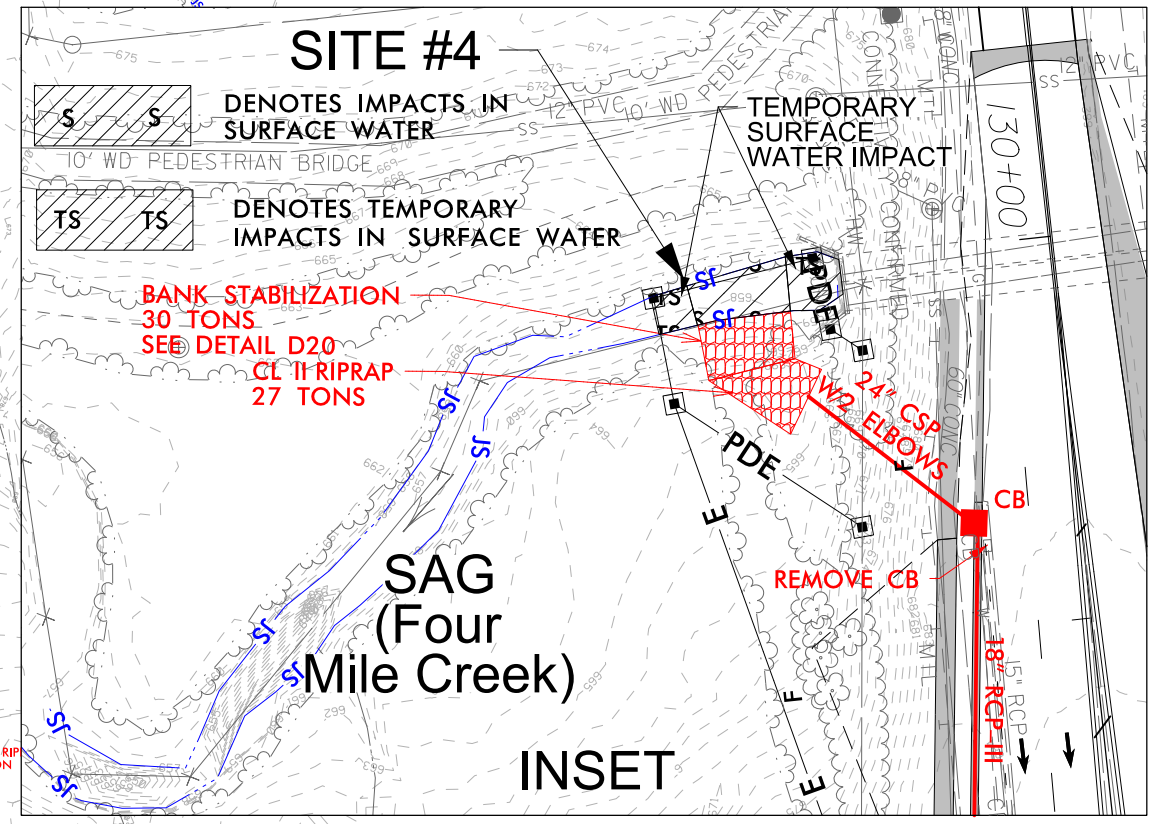
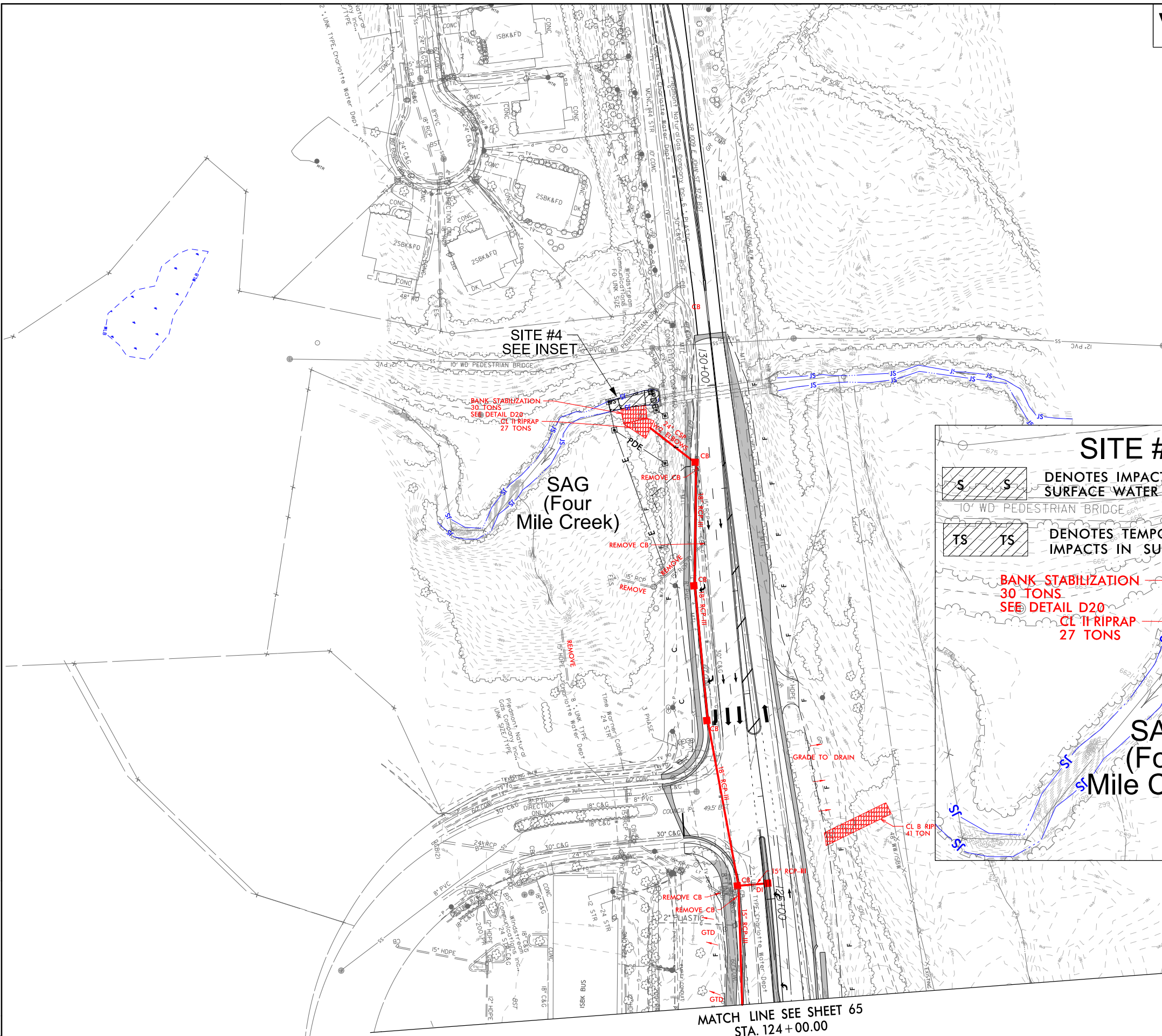
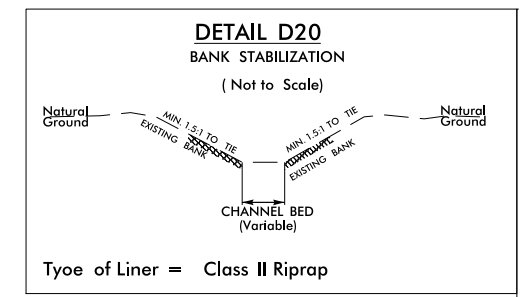
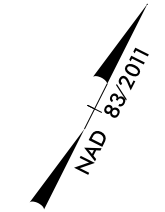
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER

**PERMIT DRAWING
SHEET 12 OF 14**



MATCH LINE SEE SHEET 65
STA. 124+00.00

PROJECT REFERENCE NO. U-4714AB	SHEET NO. 77
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER

PERMIT DRAWING SHEET 13 OF 14



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	837+80 -L-	Extend 2 @ 7' x 6' RCBC						< 0.01		14		
1	837+80 -L-	Bank Stabilization						0.01	< 0.01	45	30	
2	839+00 -L-	Extend 2 @ 7' x 6' RCBC						< 0.01		31		
2	839+00 -L-	Bank Stabilization						0.01	< 0.01	51	21	
2	15+20 -Y6RPC-	Bank Stabilization						< 0.01	< 0.01	6	20	
3	19+50 -Y6RPC	30" RCP						0.02	< 0.01	197	10	
4	129+50 -Y6-	Bank Stabilization						< 0.01	< 0.01	26	24	
TOTALS*:								0.06	0.03	370	105	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 07/2/2019
 MECKLENBURG
 TIP NO. U-4714AB
 WBS NO. 39078.1.1
 SHEET 14 OF 14