

I:\23\2022\pww\decem-na-pw-bentley.com\AECOM\DS2\NA_2020\Documents\60646756-I-2513A\900-CAD GIS\910_CAD\70_NCDOT_TIP\Hydraulics\Permits_Environment\AECOM\I-2513_B.C.D\I-2513_B\Drawings\01_2513_09_28_22.dwg

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

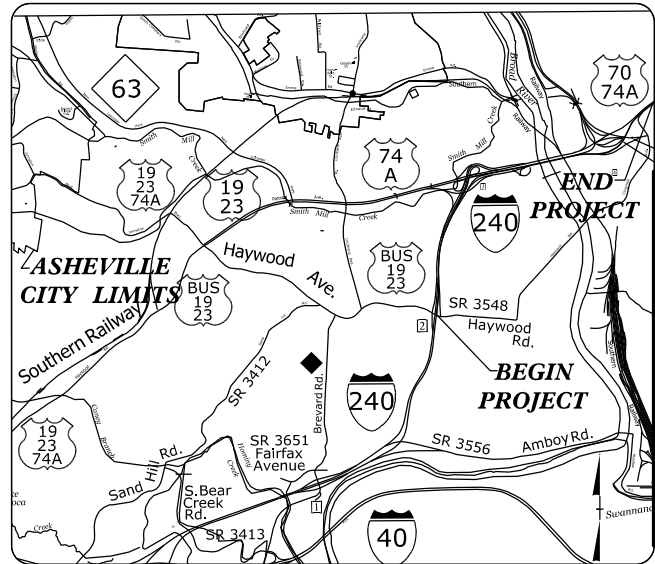
BUNCOMBE COUNTY

**PRELIMINARY
WETLAND AND
SURFACE WATER
IMPACTS PERMIT**

NOVEMBER 2022

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513B	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34165.1.2		P.E.	
34165.1.2		R/W	
34165.1.2		UTIL.	
34165.1.2		CONST.	

TIP PROJECT: I-2513B



VICINITY MAP

**LOCATION: HAYWOOD ROAD NORTH ACROSS FRENCH BROAD RIVER
TO US-19/US23/US-70**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING,
STRUCTURES, RETAINING WALLS,
SOUND WALLS, SIGNALS, AND SIGNING**

START I-2513 B CONSTRUCTION

-Y7- STA.10+89.00

BEGIN CONSTRUCTION
-Y7RPA- STA.10+00.00

END TIP PROJECT I-2513AC
-L- STA.108+00.00

BEGIN BRIDGE
-Y7- STA.33+18+/-

BEGIN BRIDGE LT & RT
-LB- STA.52+52+/-

BEGIN BRIDGE LT & RT
-240EB- STA.19+60+/-

BEGIN BRIDGE LT & RT
-Y7RPA- STA.14+77+/-

BEGIN BRIDGE LT & RT
-Y7_EB STA.46+41+/-

BEGIN BRIDGE LT & RT
-Y7_WB STA.46+33+/-

END BRIDGE LT
-Y7_EB STA.59+51+/-

END BRIDGE LT
-Y7_EB STA.59+77+/-

END BRIDGE LT & RT
-Y7_WB
STA.58+93+/-

END BRIDGE
-Y24- STA.13+21+/-

END BRIDGE
-Y7RPA- STA.33+91+/-

BEGIN BRIDGE
-Y24- STA.11+43.10+/-

BEGIN BRIDGE
-Y7RPA- STA.23+43+/-

END BRIDGE LT
-Y7RPA- STA.16+50+/-

END BRIDGE
-Y7RPA- STA.27+00+/-

END BRIDGE LT
-LB- STA.99+72+/-

END BRIDGE
-23NB- STA.46+39+/-

BEGIN BRIDGE
SITE 9-23NB- STA.40+50+/-

BEGIN BRIDGE
SITE 8 -Y7RPD- STA.19+00+/-

END BRIDGE
-240WB- STA.48+32+/-

END BRIDGE
-240EB- STA.48+32+/-

END BRIDGE
-Y23E- STA.16+58+/-

BEGIN BRIDGE LT & RT
-Y23E- STA.11+29+/-

END BRIDGE
-Y23A- STA.14+20+/-

BEGIN BRIDGE
-Y23E- STA.37+75+/-

END BRIDGE
-Y23E- STA.39+54+/-

END I-2513 AC CONSTRUCTION (RIGHT)

START I-2513 B CONSTRUCTION
-L- POT STA.121+20.00

END I-2513B -LA- STA.124+91.67
BEGIN I-2513B -LB- STA.18+61.04

**SEE SECTION I2513D
FOR -Y36-
IMPROVEMENTS**

**END I-2513 B
CONSTRUCTION**
-LB- STA.153+73.88

END I-2513 B CONSTRUCTION
-Y16C- STA.22+58.67

**THIS IS A CONTROLLED-ACCESS PROJECT WITH
ACCESS BEING LIMITED TO INTERCHANGES**

**THIS PROJECT IS LOCATED WITHIN THE CITY LIMITS OF
THE CITY OF ASHEVILLE**

**CLEARING ON THIS PROJECT WILL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD III**

**PERMIT DRAWING
SHEET 1 OF 26**

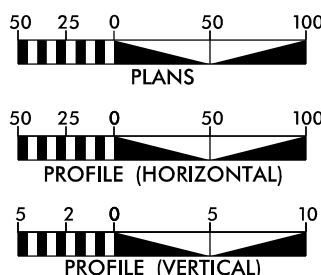
★ UPGRADED SIGNAL

**INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION**

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

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

ADT 2024 = NA
ADT 2040 = 101,400
K = 9 %
D = 55 %
T = 10 % *
V = 60 MPH
* TTST = 5% DUAL 5%
FUNC CLASS = INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-2513B = 10.140 MI

LENGTH STRUCTURE TIP PROJECT I-2513B = 4.028 MI

TOTAL LENGTH TIP PROJECT I-2513B = 14.168 MI

AECOM

NC FIRM LICENSE No: F-0342
5438 Wade Park Blvd., Suite 200
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER, 2023

LETTING DATE:
OCTOBER, 2023

PROJECT ENGINEER

PROJECT DESIGN ENGINEER

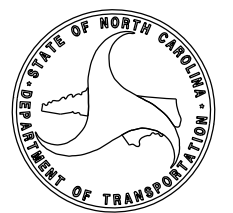
KEVIN E. MOORE, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

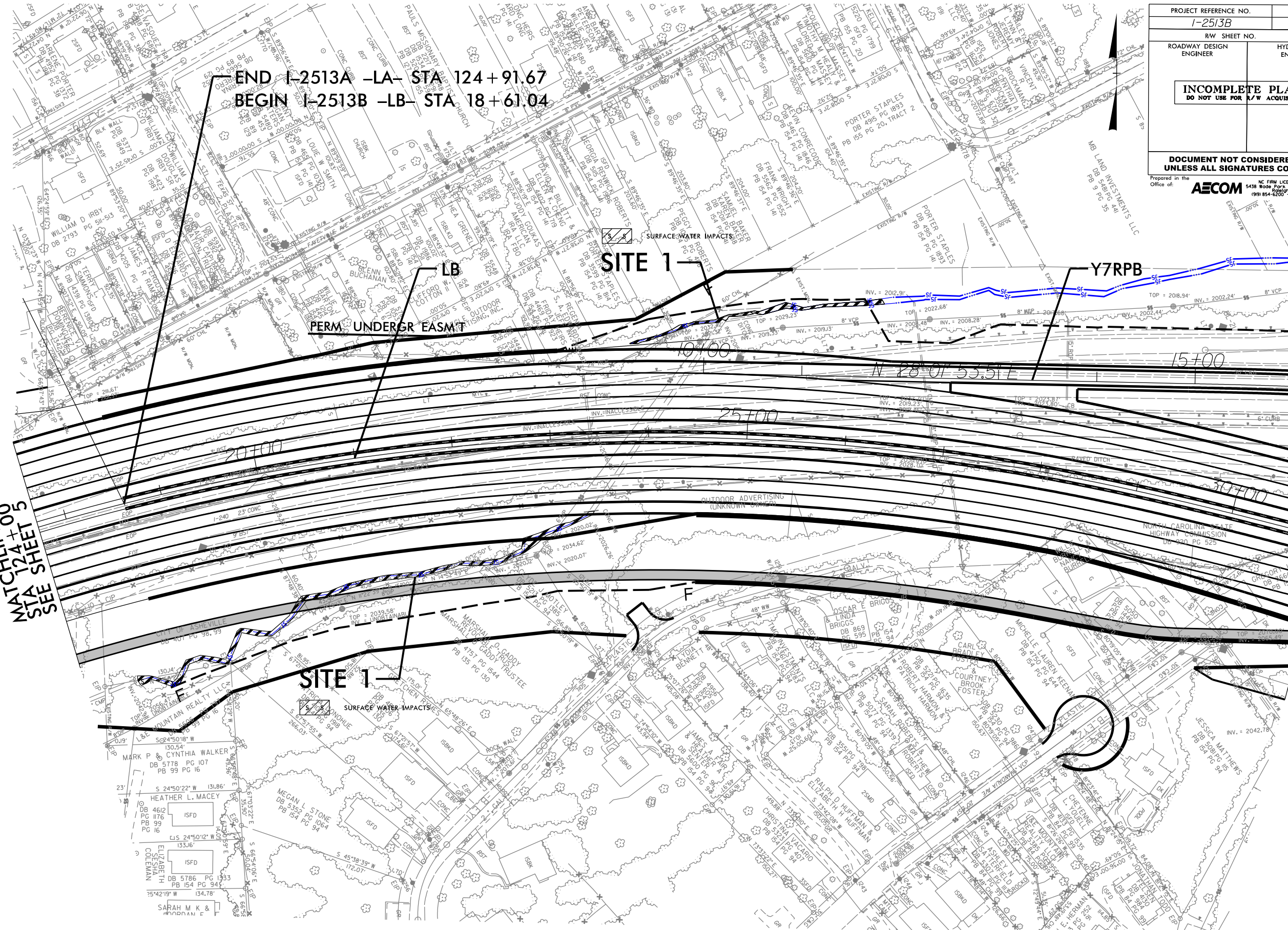
SIGNATURE: _____ P.E.

**ROADWAY DESIGN
ENGINEER**

SIGNATURE: _____ P.E.



PROJECT REFERENCE NO. I-2513B		SHEET NO. 6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5418 Wood Park Boulevard Suite 200 (919) 854-6200 • (919) 854-6295(FAX)			

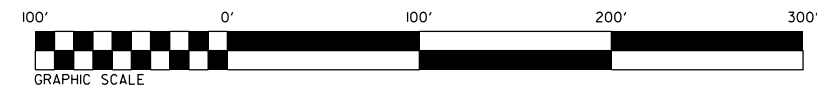


MATCHLINE -LA- STA 124+00 SEE SHEET 5

MATCHLINE -Y7RPB- STA 16+00 SEE SHEET 7

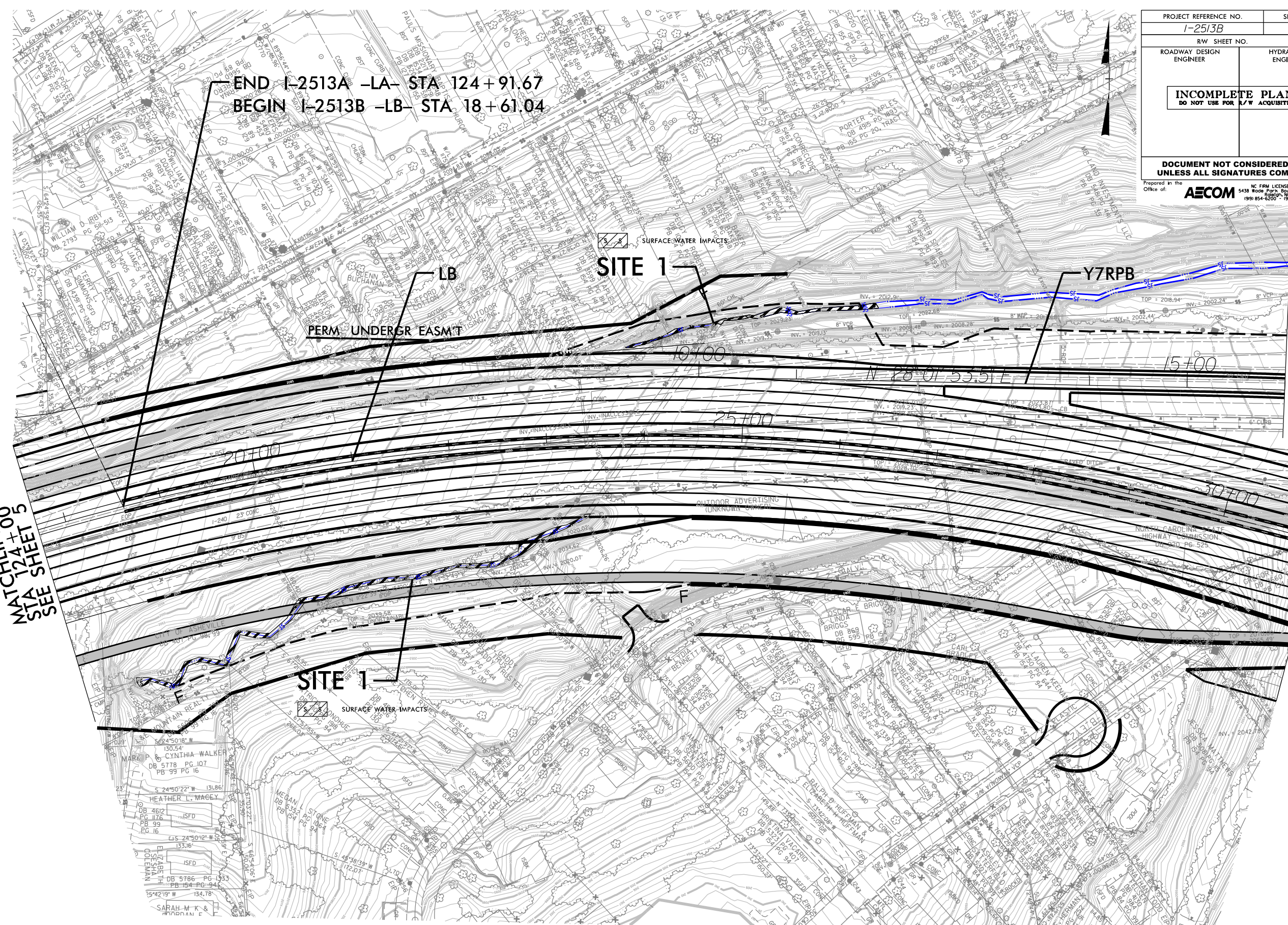
MATCHLINE -Y36- STA 31+00 SEE SHEET 7

PERMIT DRAWING SHEET 2 OF 26



REVISIONS

\\GIS\9101\03740\001-TIP\Hydraulics\Permits-Environ\mtd\AECOM\I-2513B.B.C.D\I-2513B_Hyd_perm_wat_psh_06.dgn



END I-2513A -LA- STA 124+91.67
 BEGIN I-2513B -LB- STA 18+61.04

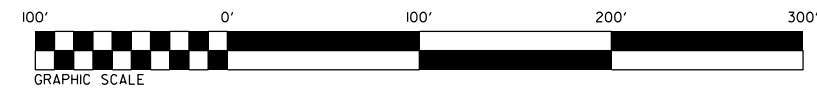
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: AECOM	

MATCHLINE -LA-
 STA 124+00
 SEE SHEET 5

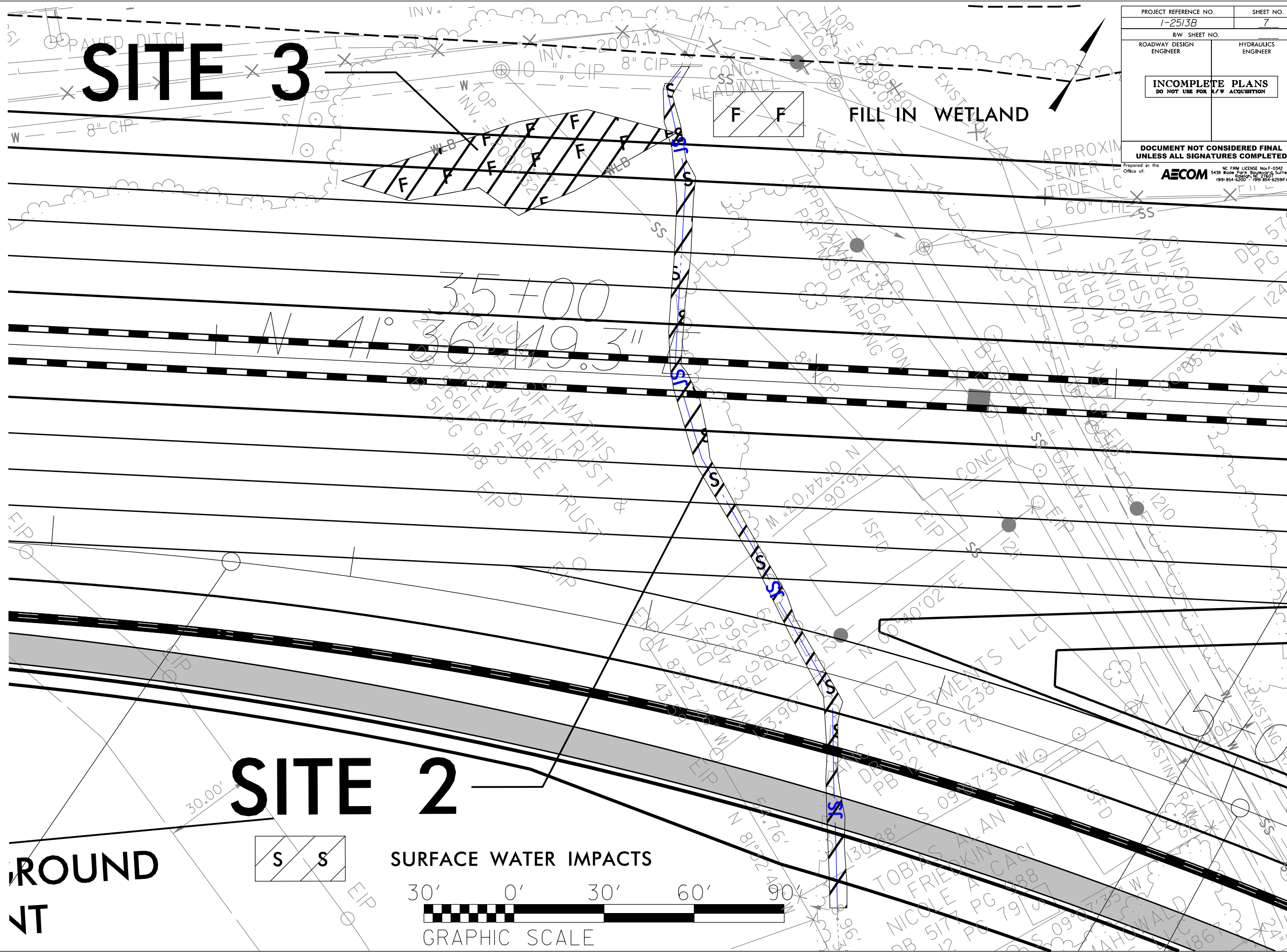
MATCHLINE
 -Y7RPB- STA 16+00
 SEE SHEET 7

-Y36 MATCHLINE
 -REV2- STA 31+00
 SEE SHEET 7

PERMIT DRAWING SHEET 3 OF 26



SITE 3



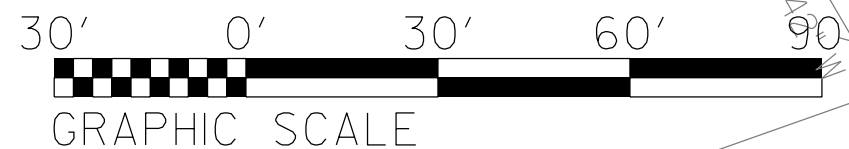
PROJECT REFERENCE NO. I-2513B	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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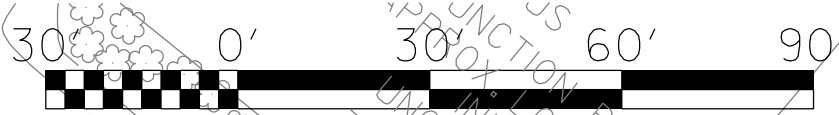
SITE 2

ROUND CUT



SURFACE WATER IMPACTS



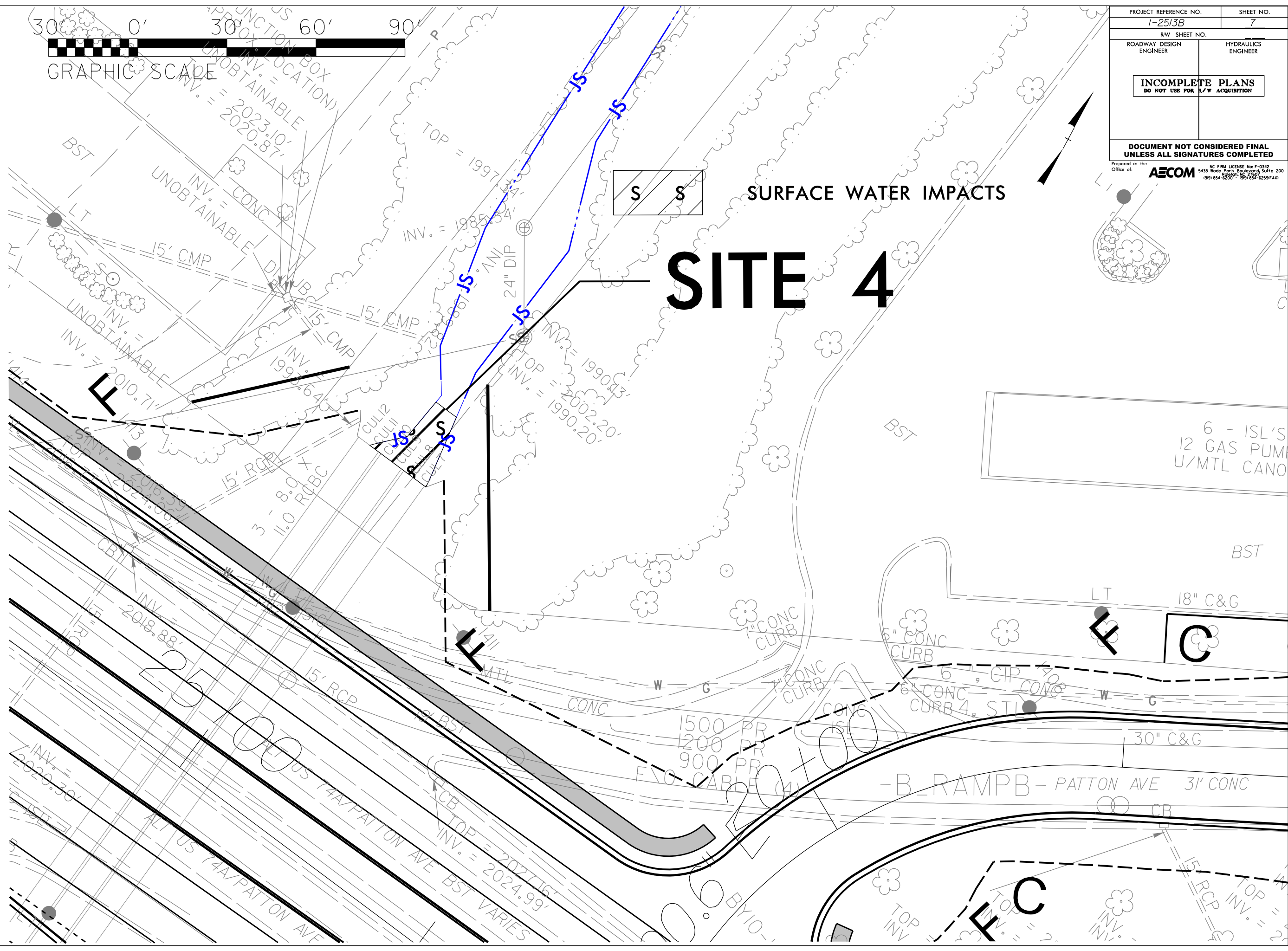


GRAPHIC SCALE

PROJECT REFERENCE NO. 1-2513B	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
<small>Prepared in the Office of:</small> AECOM	

SURFACE WATER IMPACTS

SITE 4

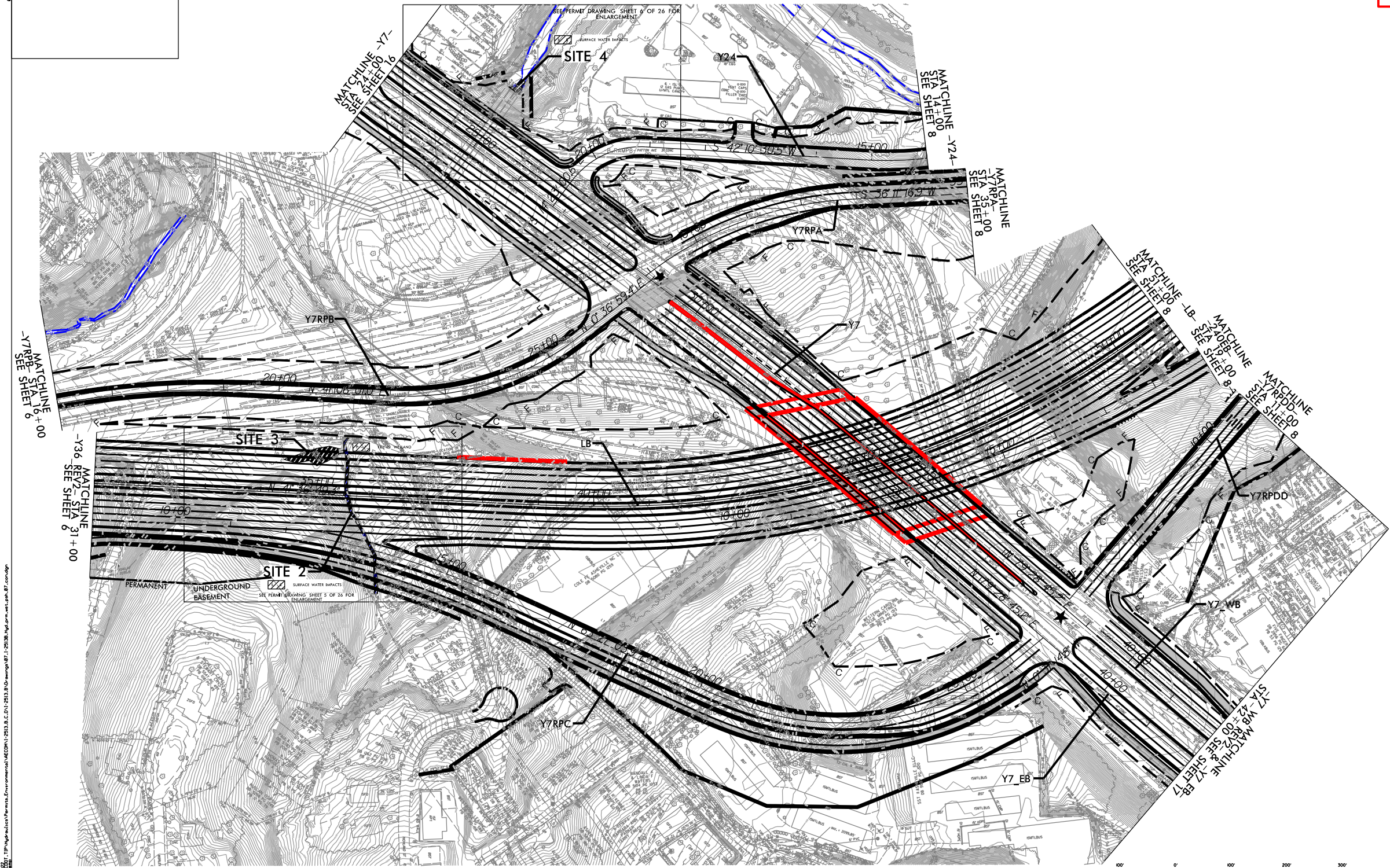


PERMIT DRAWING SHEET 6 OF 26

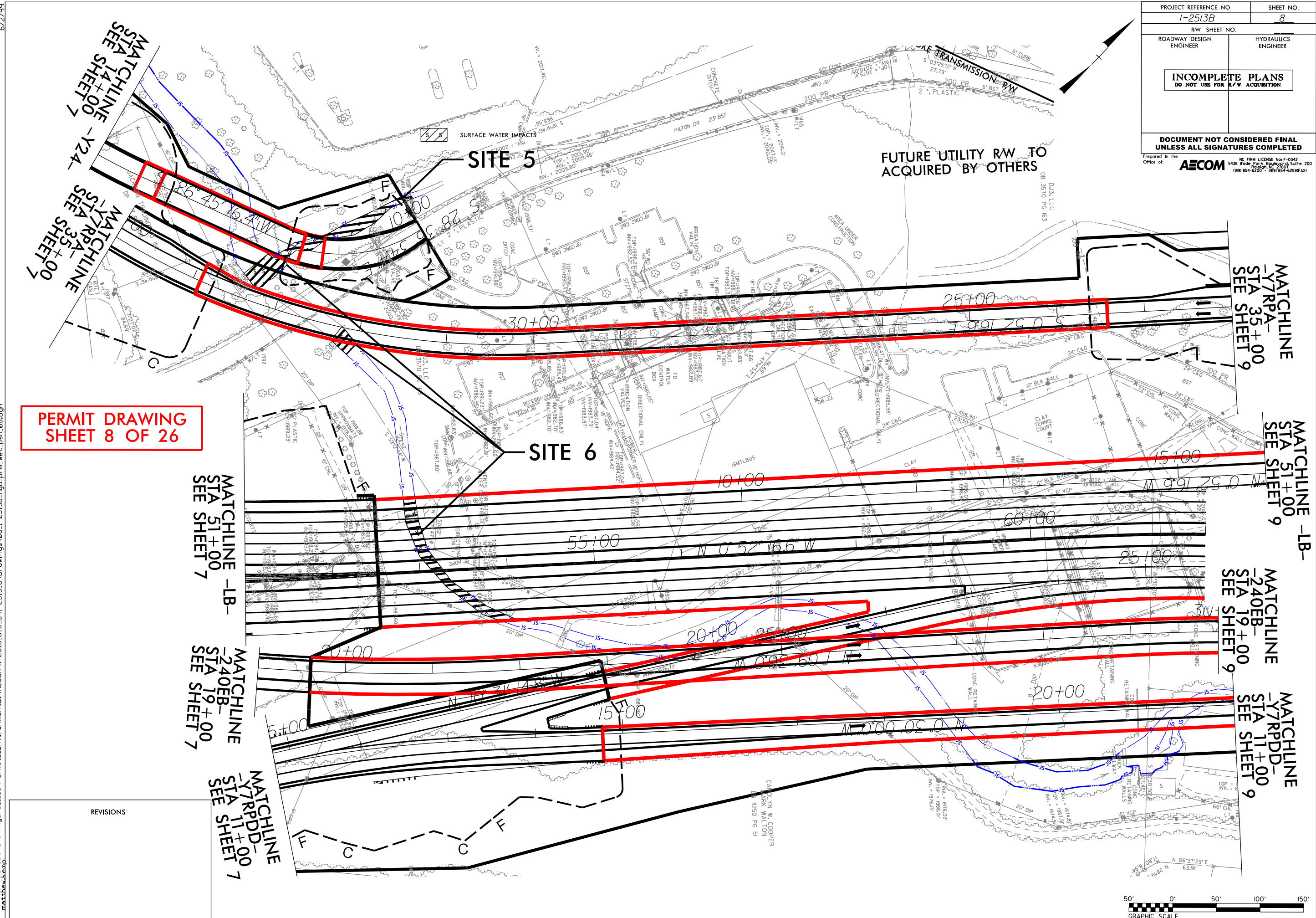
NO.	REVISIONS

PERMIT DRAWING
SHEET 7 OF 26

PROJECT REFERENCE NO. T-2538	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
AECOM	

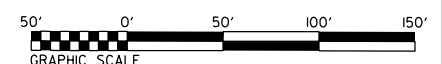


PROJECT REFERENCE NO.	SHEET NO.
1-2513B	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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PERMIT DRAWING
SHEET 8 OF 26

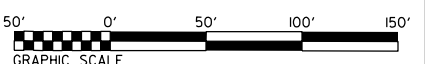
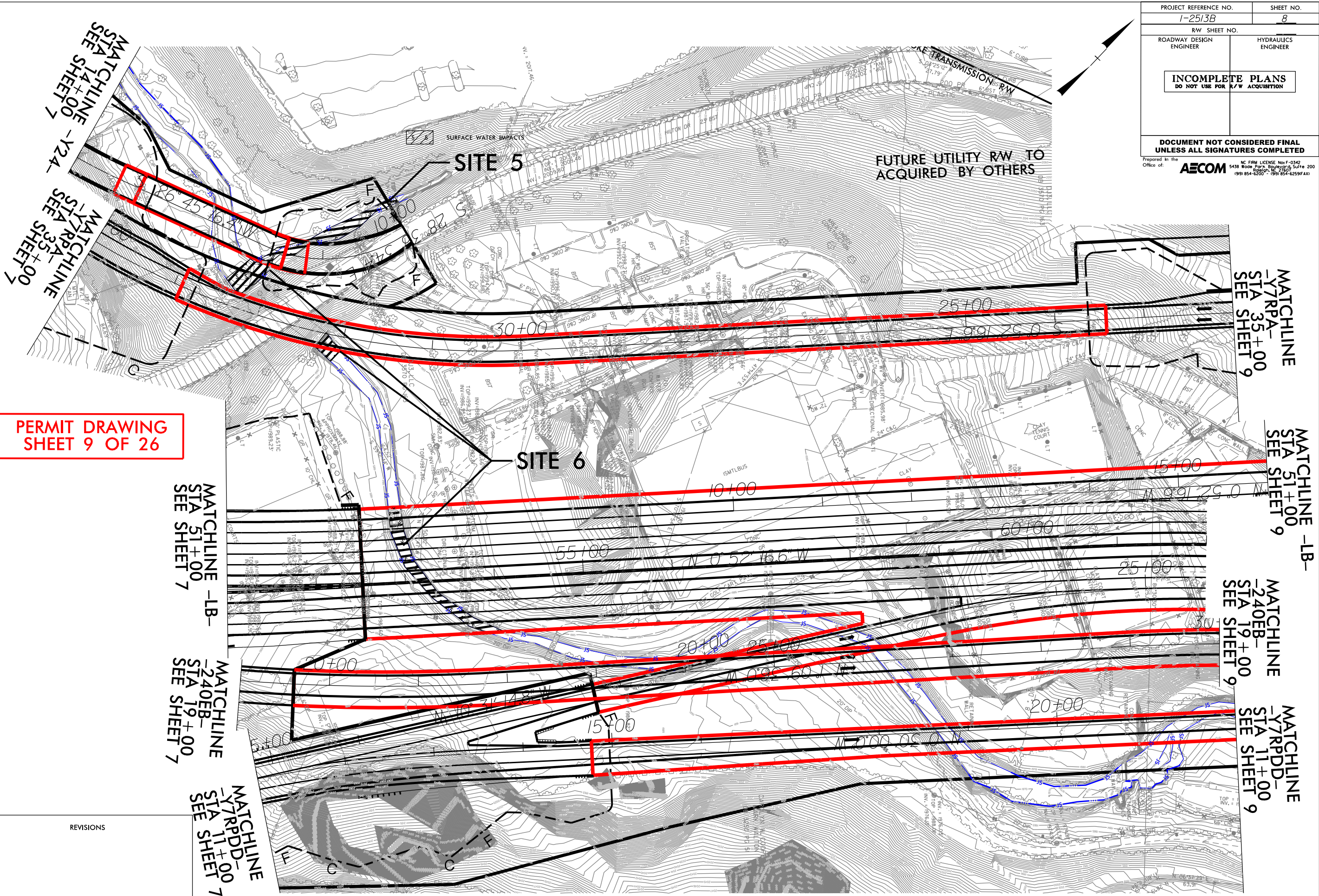
NO.	REVISIONS



6/2/2/99
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matthew.kemp

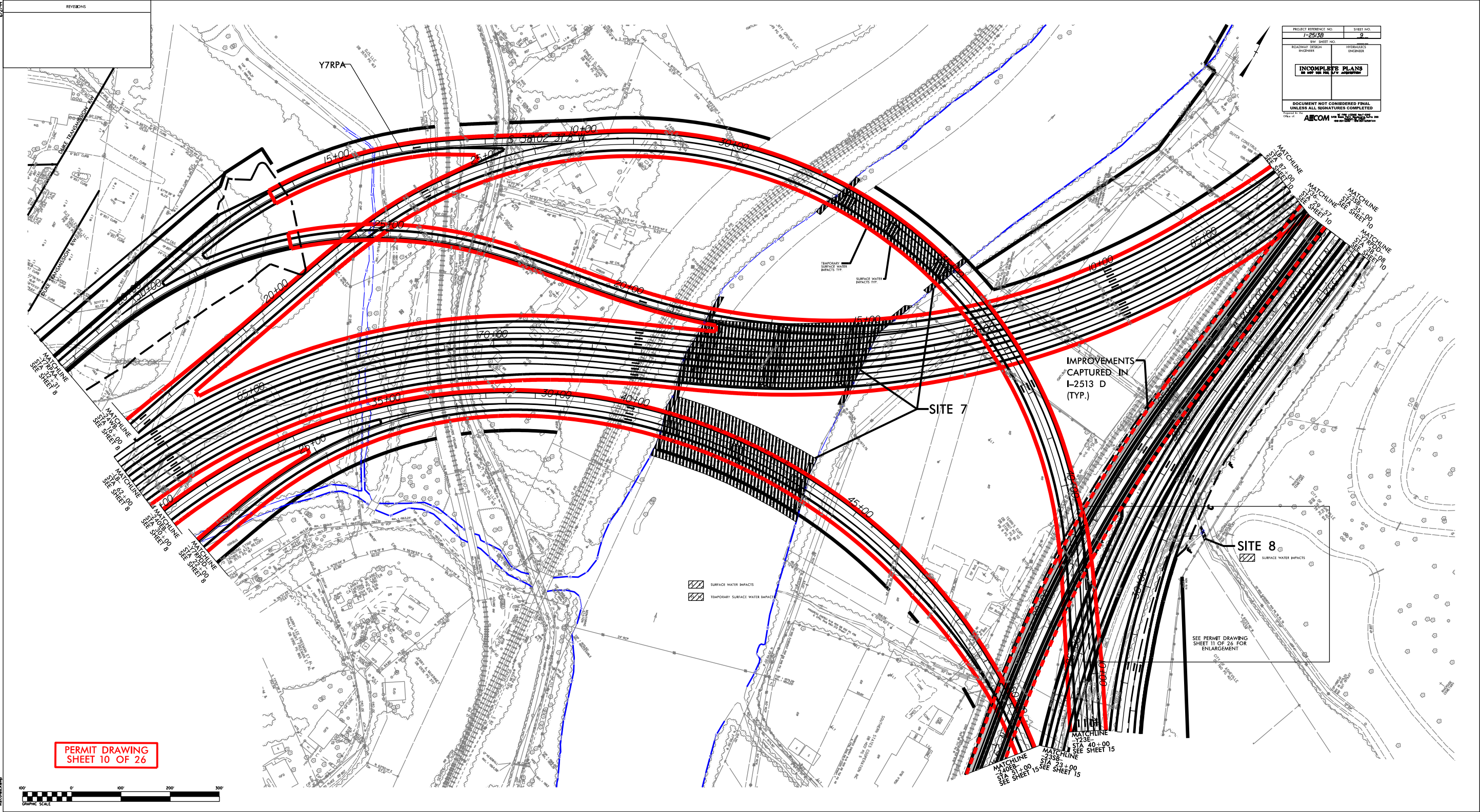
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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6/2/2/99
GIS\910_CAD\2020\TIP\Hydraulics\Permits_Environmental\AECOM\1-2513_B.C.D\1-2513_B Drawings\09_1-2513B_Hyd_frm_wet.psh_08_con.gdn



REVISIONS	

PROJECT REFERENCE NO. I-2513B	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR PERMITS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
AECOM	



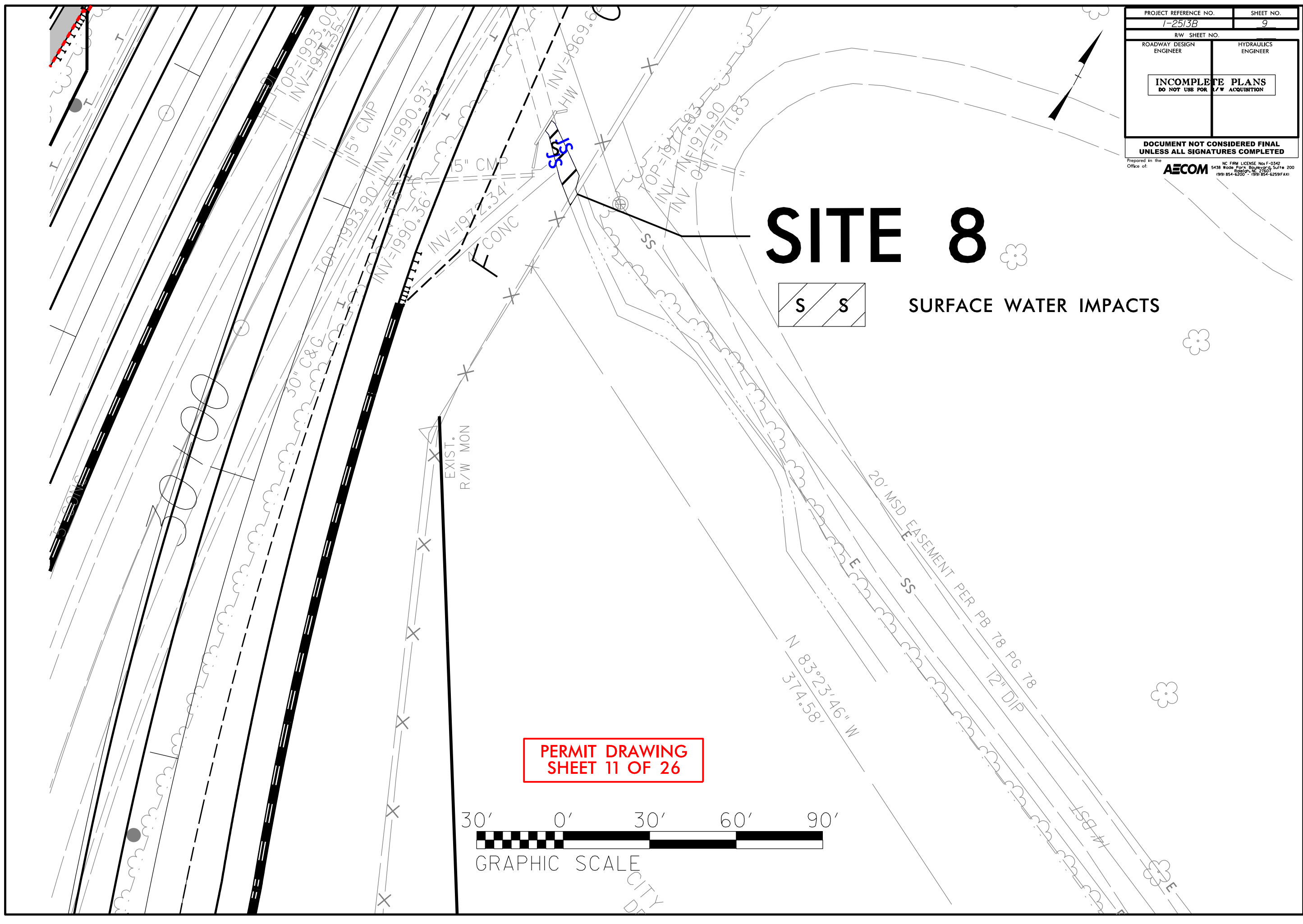
PERMIT DRAWING
SHEET 10 OF 26



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PROJECT REFERENCE NO. 1-2513B	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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SITE 8



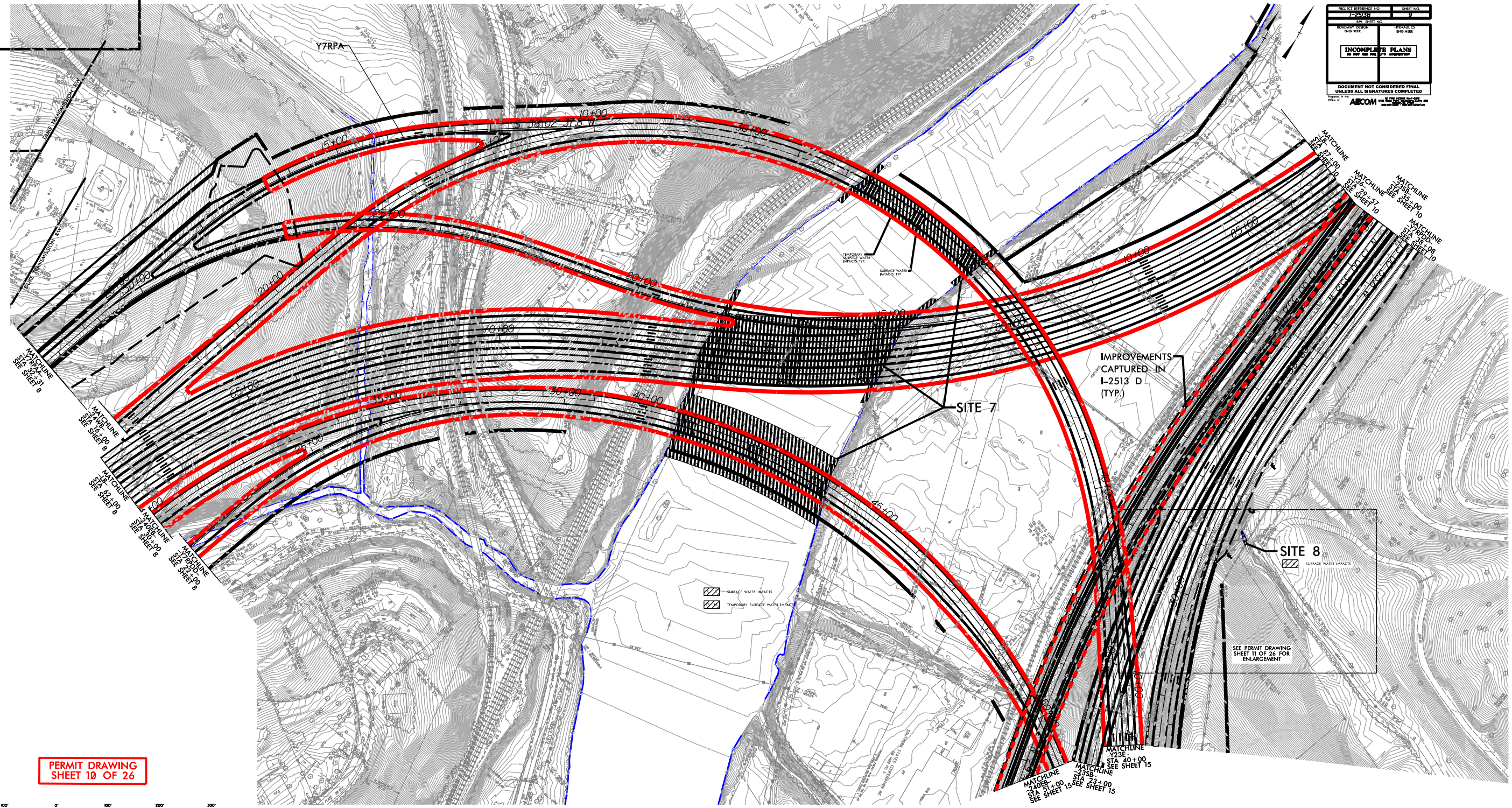
SURFACE WATER IMPACTS

**PERMIT DRAWING
SHEET 11 OF 26**

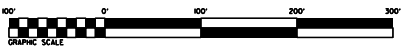


REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
7-2513 D	10
ROADWAY DESIGN ENGINEER	HYDROLOGIST ENGINEER
INCOMPLETE PLANS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
AECOM	



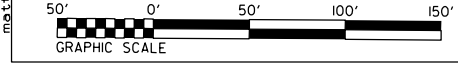
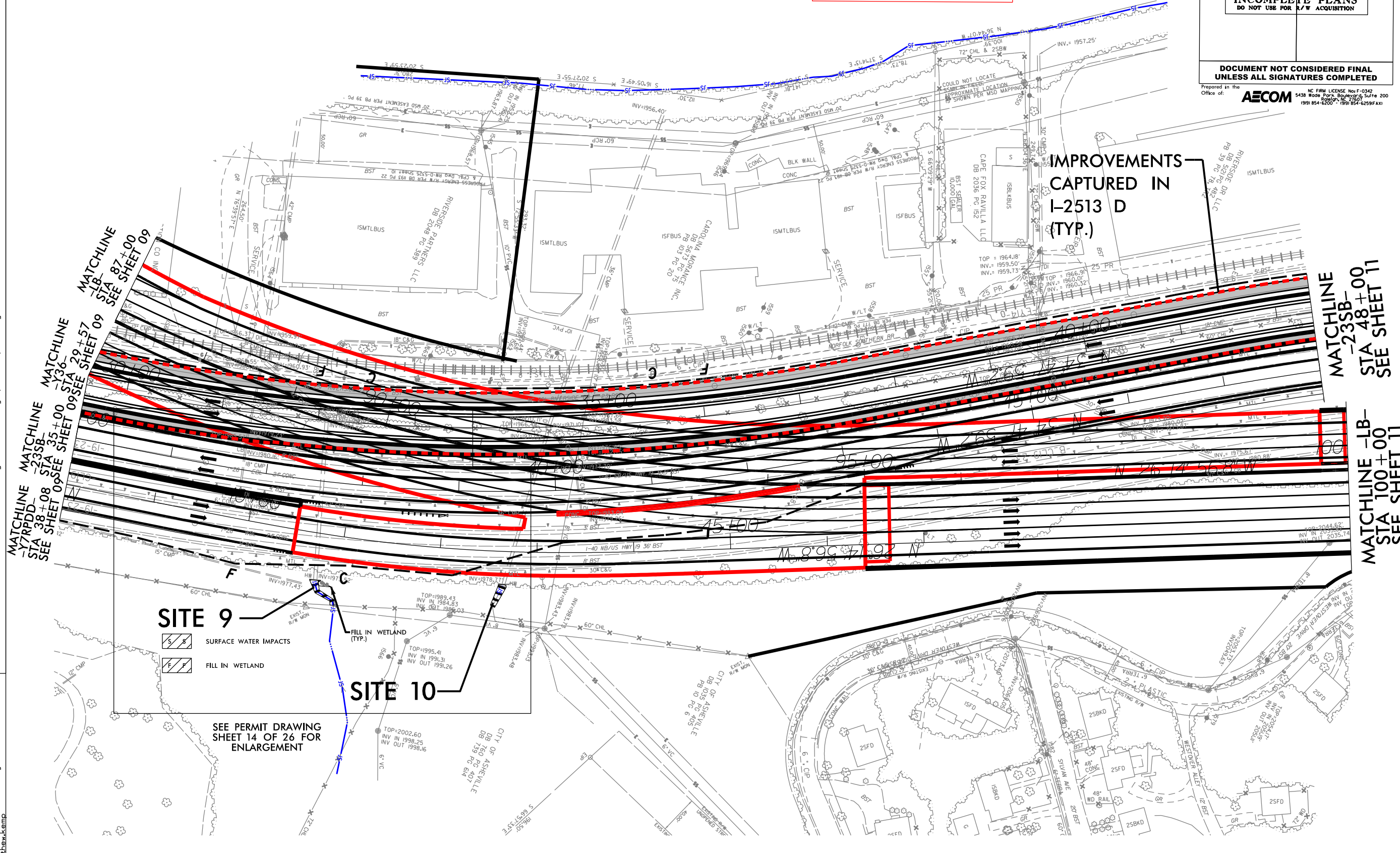
PERMIT DRAWING SHEET 10 OF 26



**PERMIT DRAWING
SHEET 13 OF 26**

PROJECT REFERENCE NO. 1-2513B	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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SITE 9

SURFACE WATER IMPACTS
 FILL IN WETLAND

SITE 10

SEE PERMIT DRAWING SHEET 14 OF 26 FOR ENLARGEMENT

IMPROVEMENTS CAPTURED IN I-2513 D (TYP.)

MATCHLINE -Y7RPDD- STA 38+08 SEE SHEET 09

MATCHLINE -23SB- STA 35+00 SEE SHEET 09

MATCHLINE -LB- STA 29+57 SEE SHEET 09

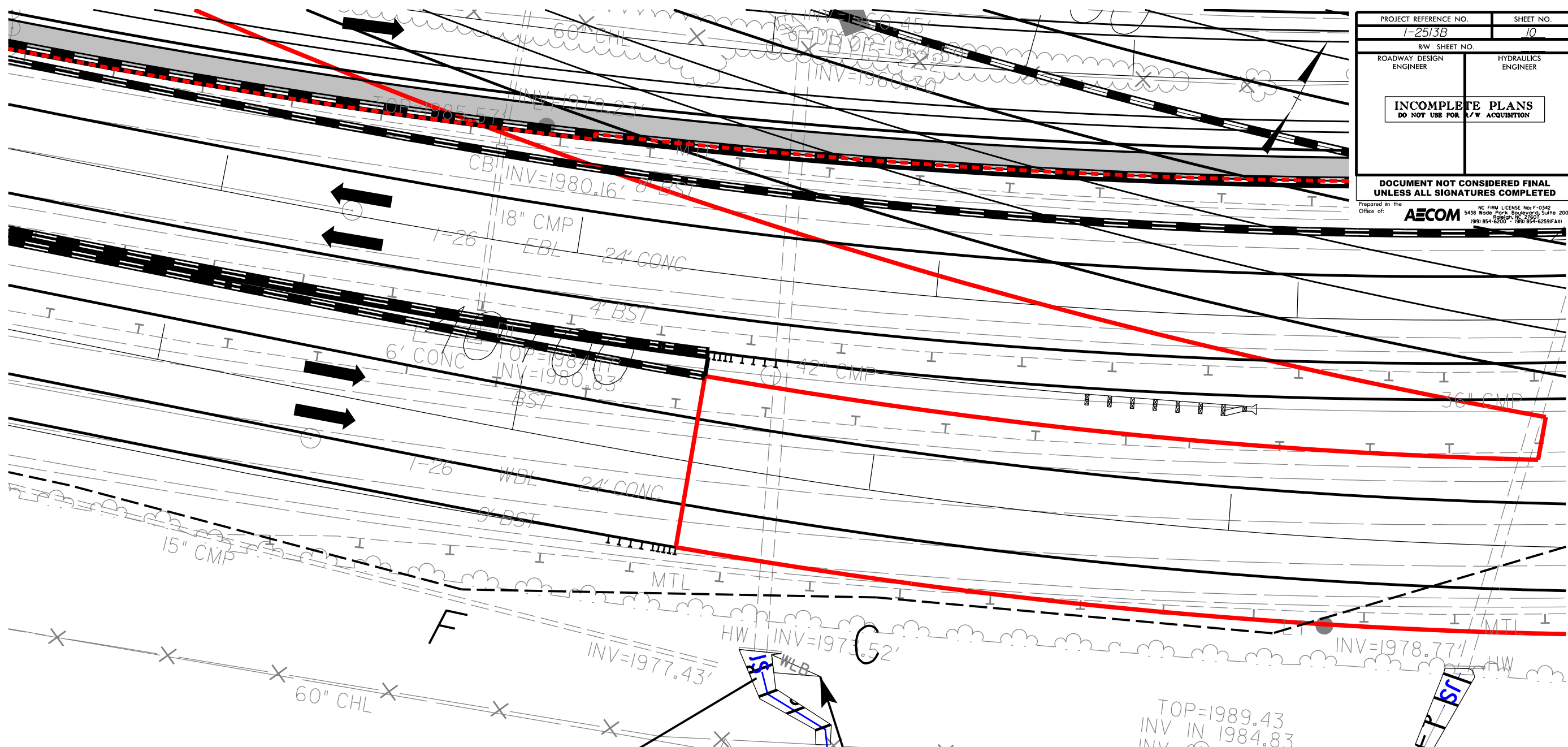
MATCHLINE -LB- STA 87+00 SEE SHEET 09

MATCHLINE -23SB- STA 48+00 SEE SHEET 11

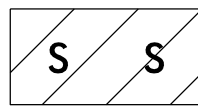
MATCHLINE -LB- STA 100+00 SEE SHEET 11

PROJECT REFERENCE NO. I-25/3B	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 Raleigh, NC 27617
 (919) 854-6200 • (919) 854-6299 (FAX)



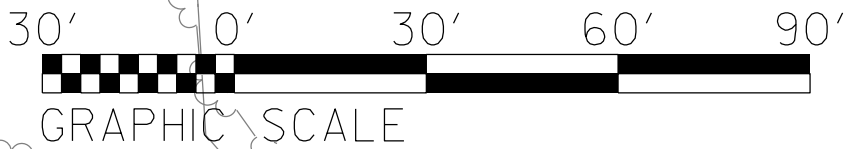
SITE 9



SURFACE WATER IMPACTS



FILL IN WETLAND



PERMIT DRAWING
SHEET 14 OF 26

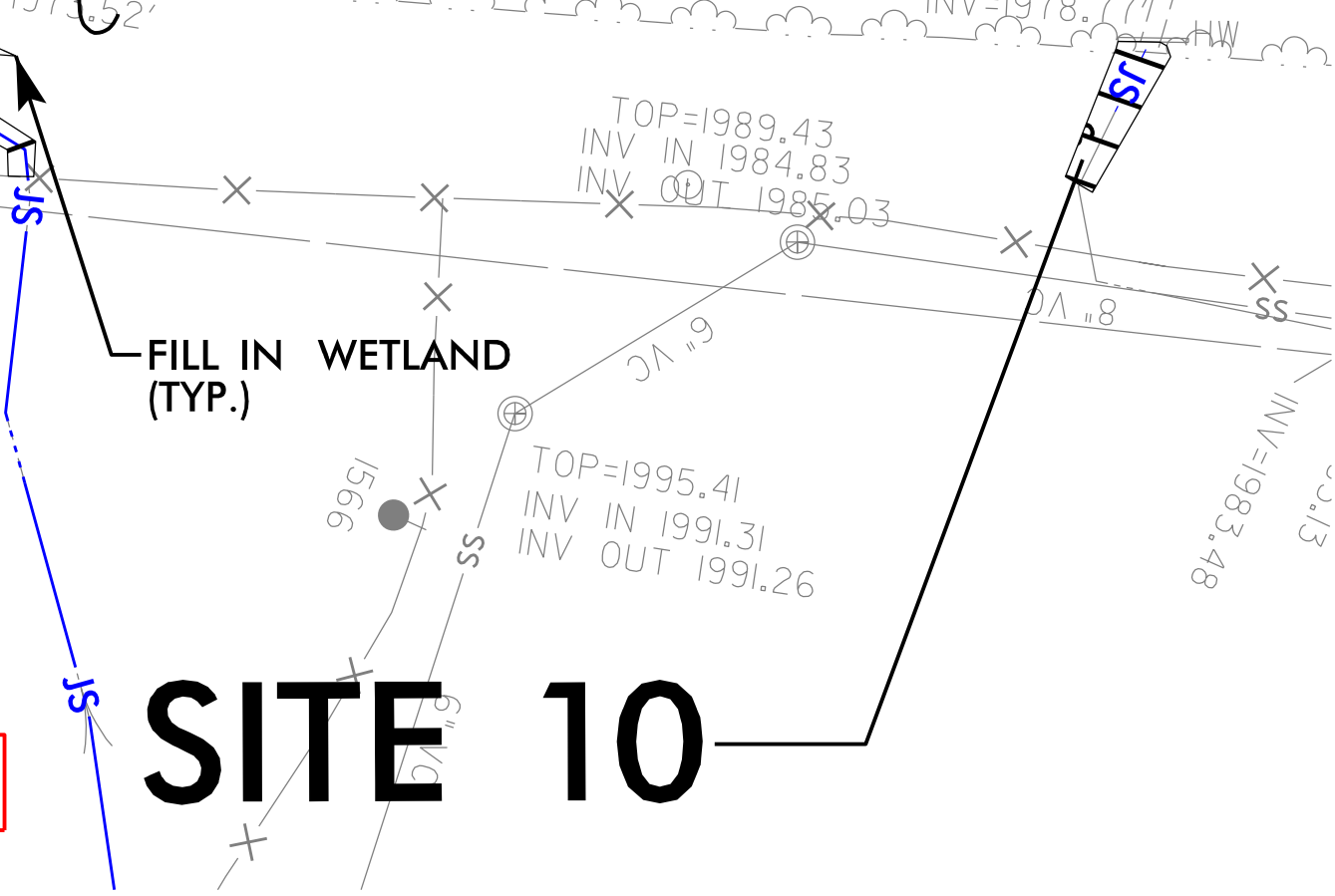
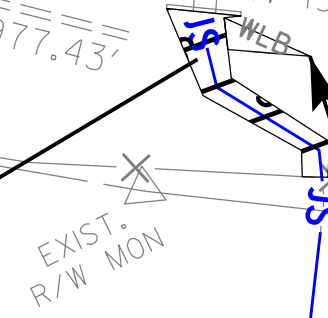
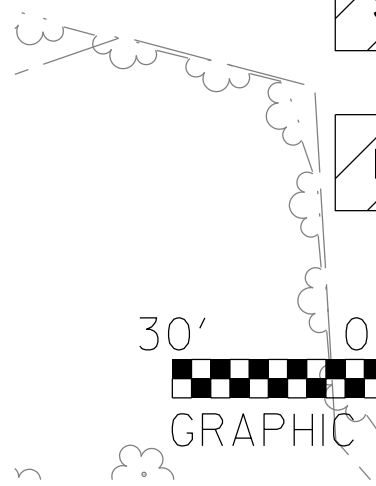
SITE 10

FILL IN WETLAND (TYP.)

TOP=1989.43
 INV IN 1984.83
 INV OUT 1985.03

TOP=1995.41
 INV IN 1991.31
 INV OUT 1991.26

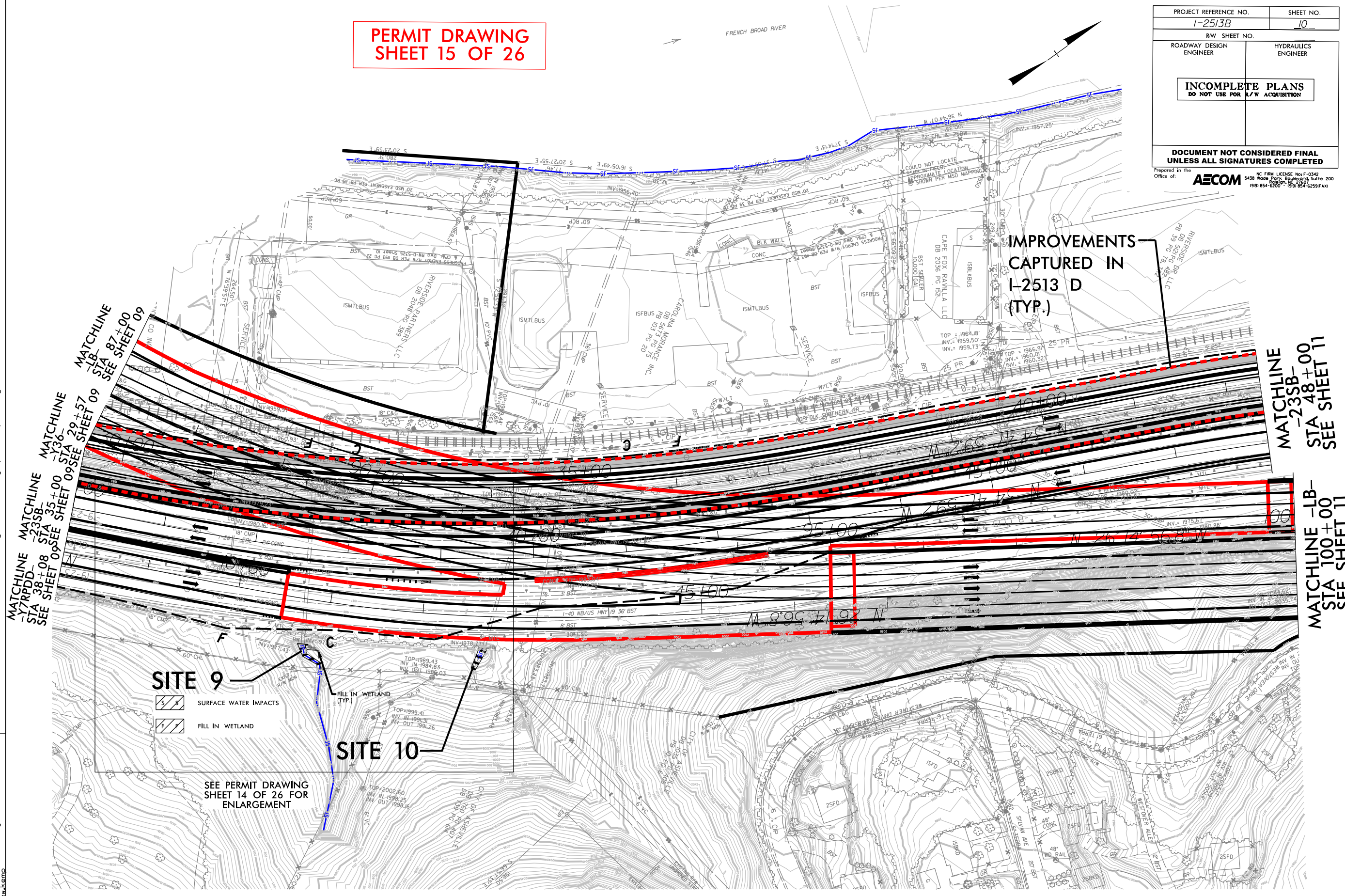
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PERMIT DRAWING SHEET 15 OF 26

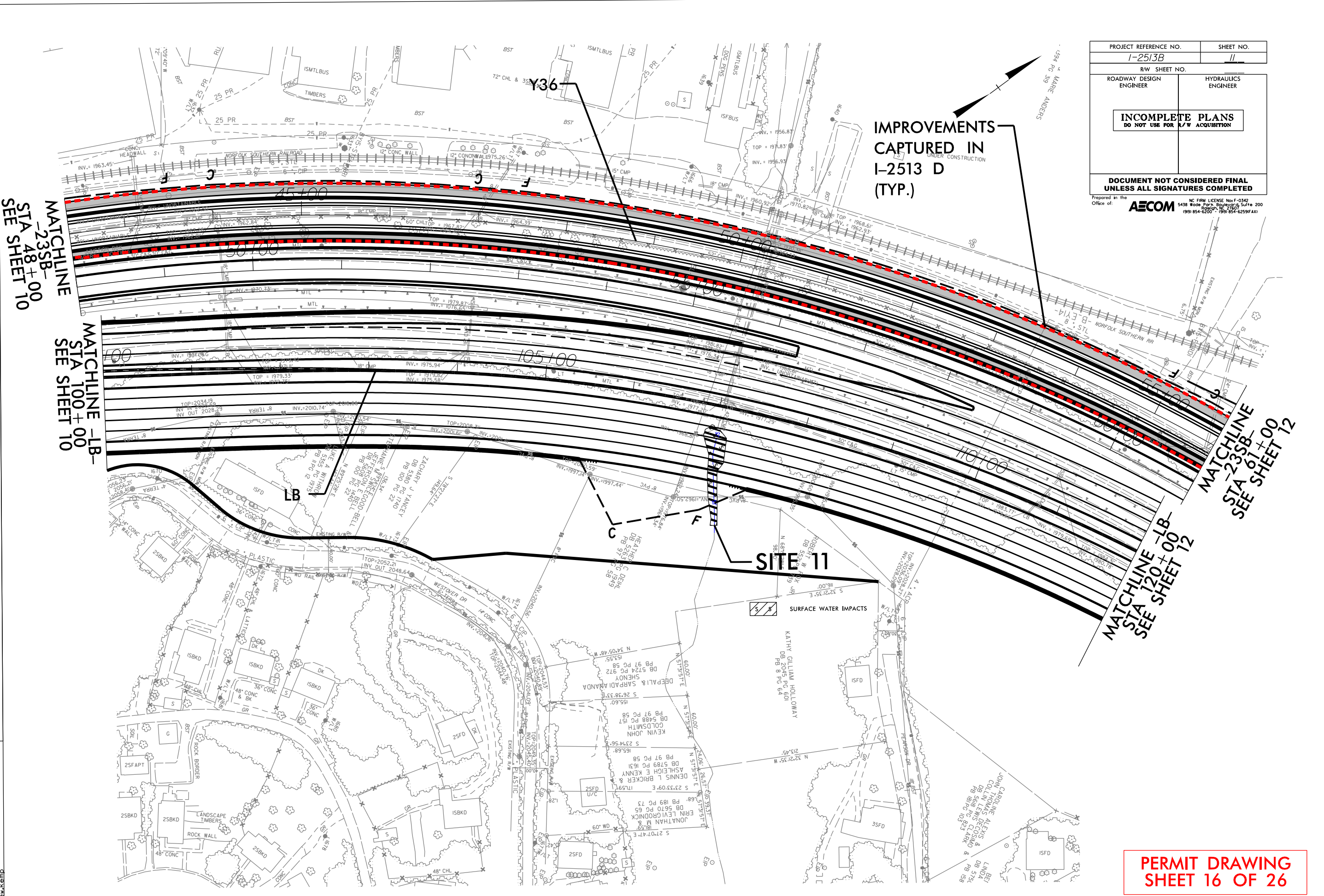
PROJECT REFERENCE NO. 1-2513B	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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(919) 854-6200 • (919) 854-6299(FAX)



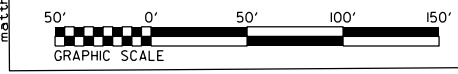
SEE PERMIT DRAWING SHEET 14 OF 26 FOR ENLARGEMENT

IMPROVEMENTS CAPTURED IN I-2513 D (TYP.)



PROJECT REFERENCE NO. I-2513B	SHEET NO. 11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 Cary, NC 27513
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PERMIT DRAWING
SHEET 16 OF 26

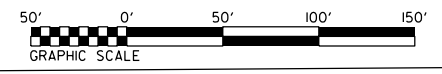
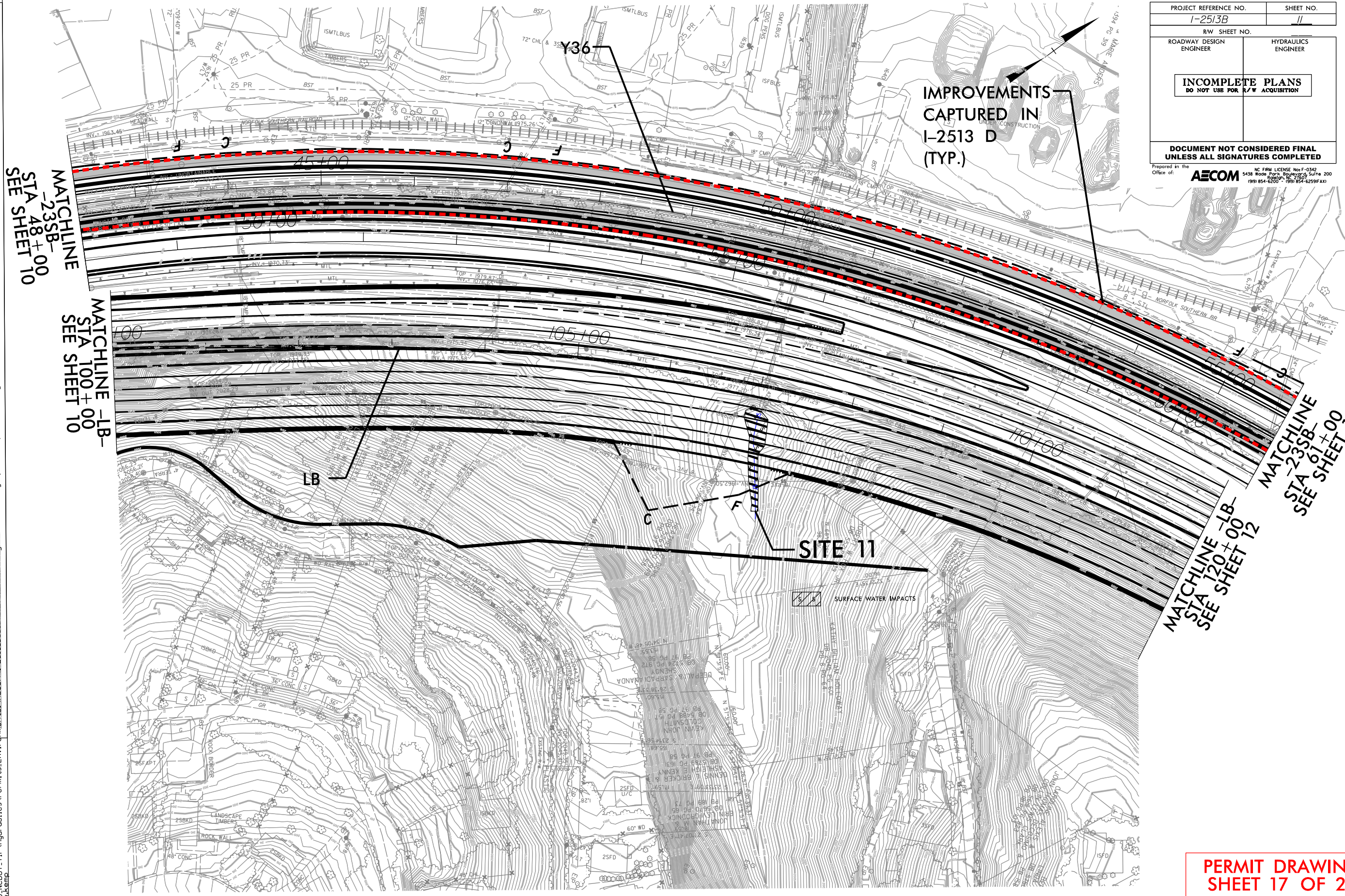
MATCHLINE -23SB-
STA 48+00
SEE SHEET 10

MATCHLINE -LB-
STA 100+00
SEE SHEET 10

PROJECT REFERENCE NO. 1-2513B	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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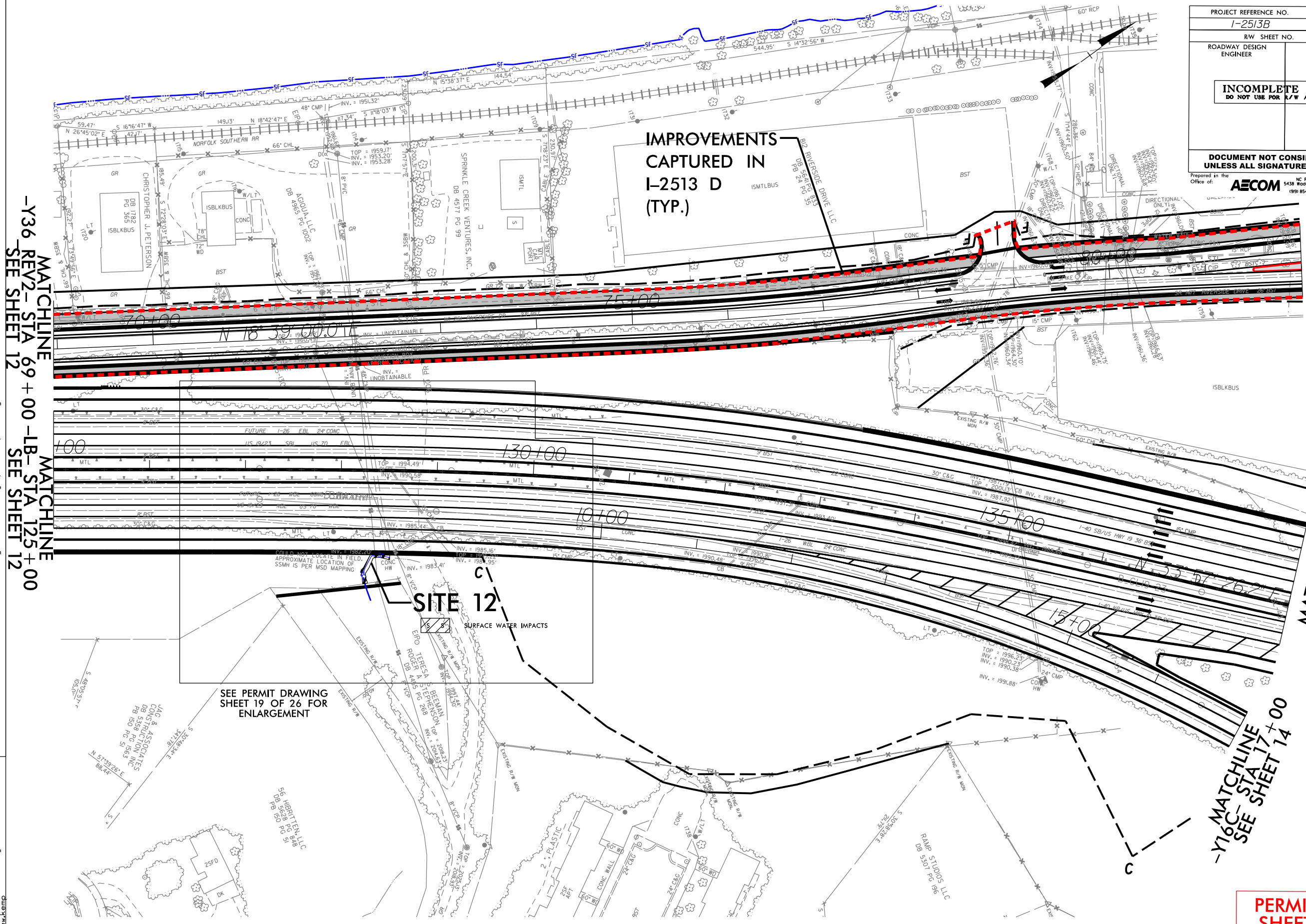
IMPROVEMENTS CAPTURED IN I-2513 D (TYP.)



PERMIT DRAWING
SHEET 17 OF 26

PROJECT REFERENCE NO.	SHEET NO.
1-2513B	13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 Raleigh, NC 27607
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MATCHLINE
 -Y36 REV2- STA 69 + 00 -LB- STA 125 + 00
 SEE SHEET 12

MATCHLINE STA 82 + 00
 -Y36 REV2- STA 82 + 00
 SEE SHEET 14

MATCHLINE STA 138 + 00
 -LB- STA 138 + 00
 SEE SHEET 14

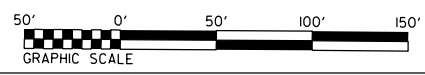
MATCHLINE STA 17 + 00
 -Y16C- STA 17 + 00
 SEE SHEET 14

SEE PERMIT DRAWING SHEET 19 OF 26 FOR ENLARGEMENT

SITE 12
SURFACE WATER IMPACTS

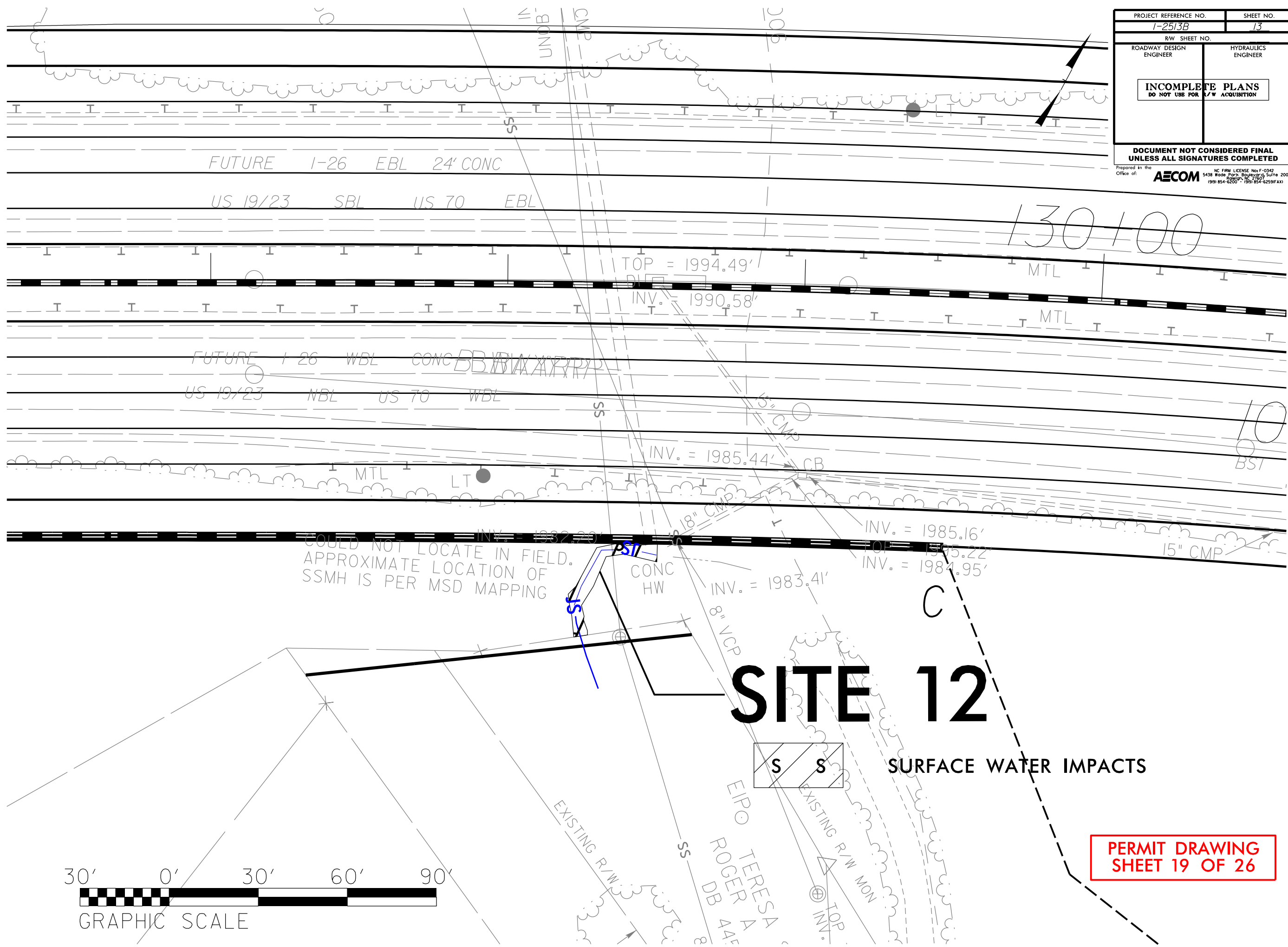
IMPROVEMENTS CAPTURED IN I-2513 D (TYP.)

PERMIT DRAWING SHEET 18 OF 26

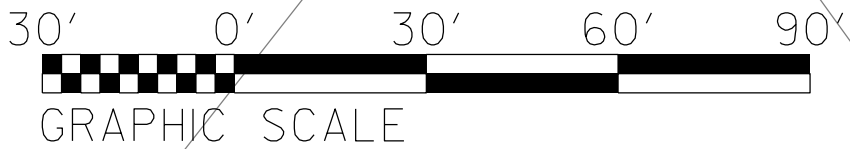


PROJECT REFERENCE NO. I-2513B	SHEET NO. 13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

Prepared in the Office of: **AECOM**
NC FIRM LICENSE No. F-0342
 5438 Wood Park Boulevard, Suite 200
 Raleigh, NC 27610
 (919) 854-6200 • (919) 854-6259(FAX)



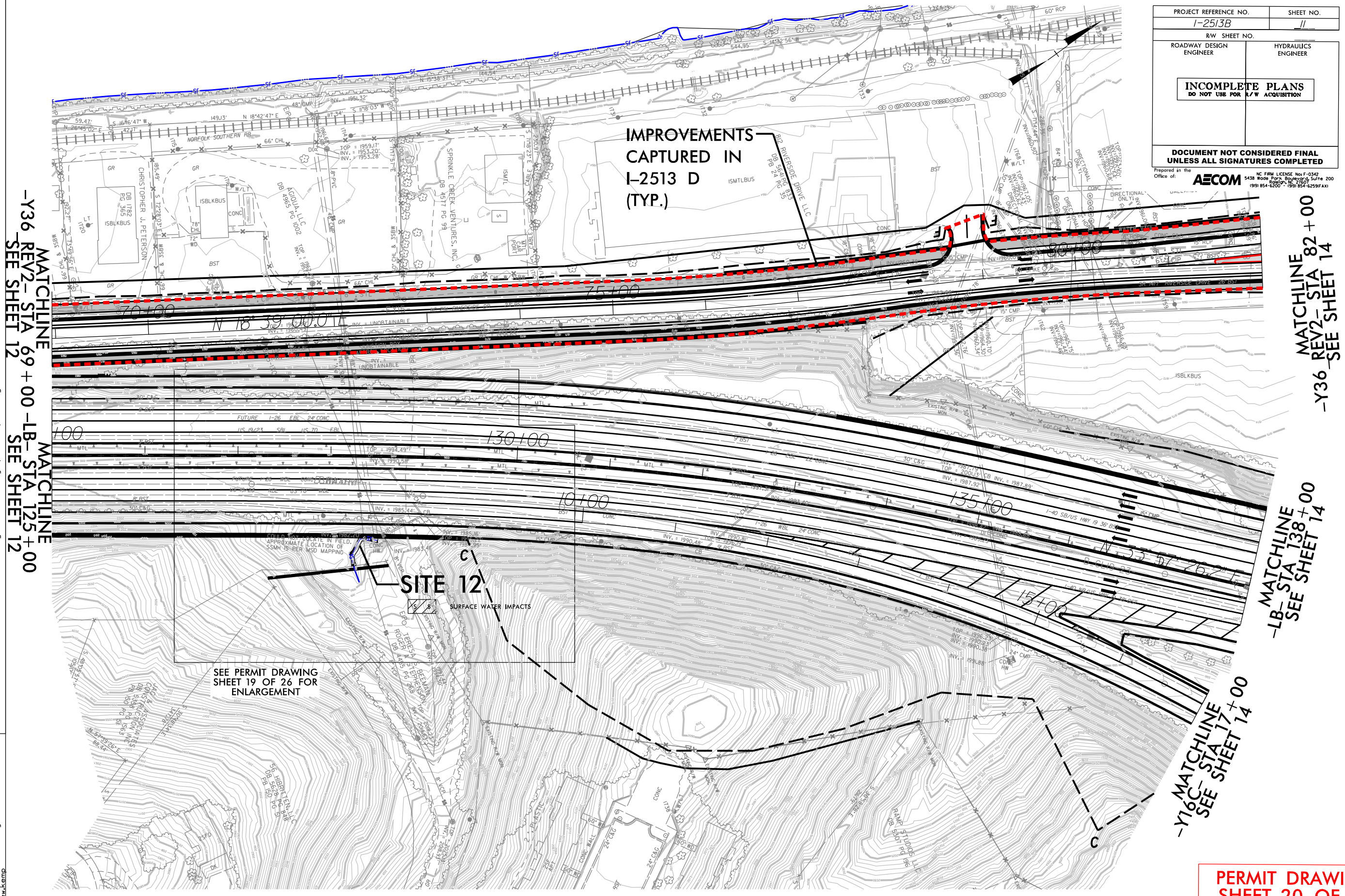
COULD NOT LOCATE IN FIELD.
 APPROXIMATE LOCATION OF
 SSMH IS PER MSD MAPPING



PERMIT DRAWING
SHEET 19 OF 26

PROJECT REFERENCE NO.	SHEET NO.
I-2513B	11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

Prepared in the Office of: **AECOM** NC FIRM LICENSE No. F-0342 5438 Wood Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 (919) 854-6299(FAX)



MATCHLINE STA 69 + 00 -Y36 REV2- SEE SHEET 12
 MATCHLINE STA 125 + 00 -LB- SEE SHEET 14

MATCHLINE STA 82 + 00 -Y36 REV2- SEE SHEET 14
 MATCHLINE STA 138 + 00 -LB- SEE SHEET 14

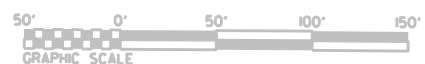
MATCHLINE STA 17 + 00 -Y16C- SEE SHEET 14

IMPROVEMENTS CAPTURED IN I-2513 D (TYP.)

SEE PERMIT DRAWING SHEET 19 OF 26 FOR ENLARGEMENT

SITE 12
SURFACE WATER IMPACTS

PERMIT DRAWING SHEET 20 OF 26



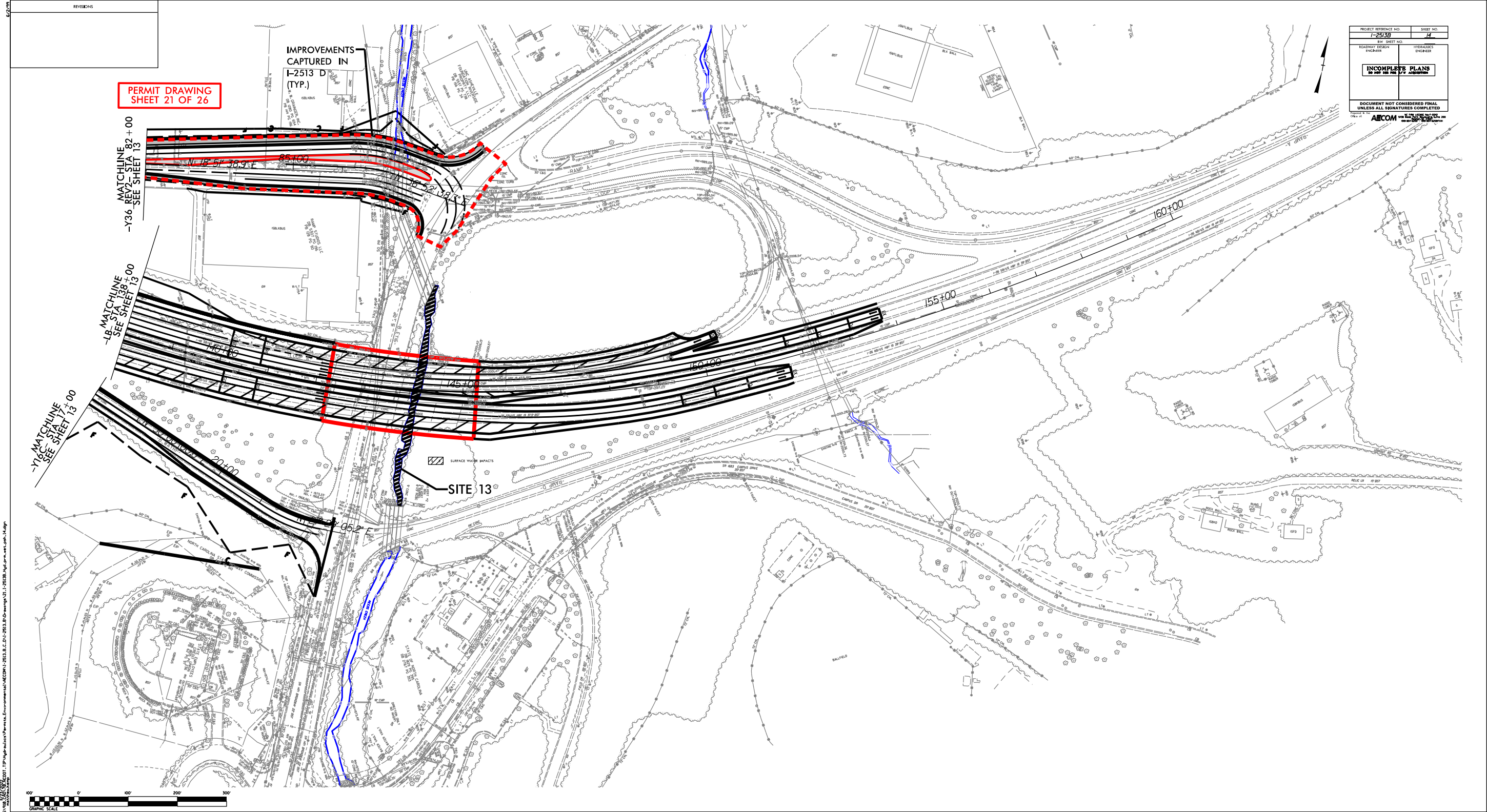
REVISIONS

NO.	DESCRIPTION	DATE
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PERMIT DRAWING
SHEET 21 OF 26

IMPROVEMENTS
CAPTURED IN
I-2513 D
(TYP.)

PROJECT REFERENCE NO. I-2513B	SHEET NO. 14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS Do not use for construction	
<small>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</small>	
AECOM	

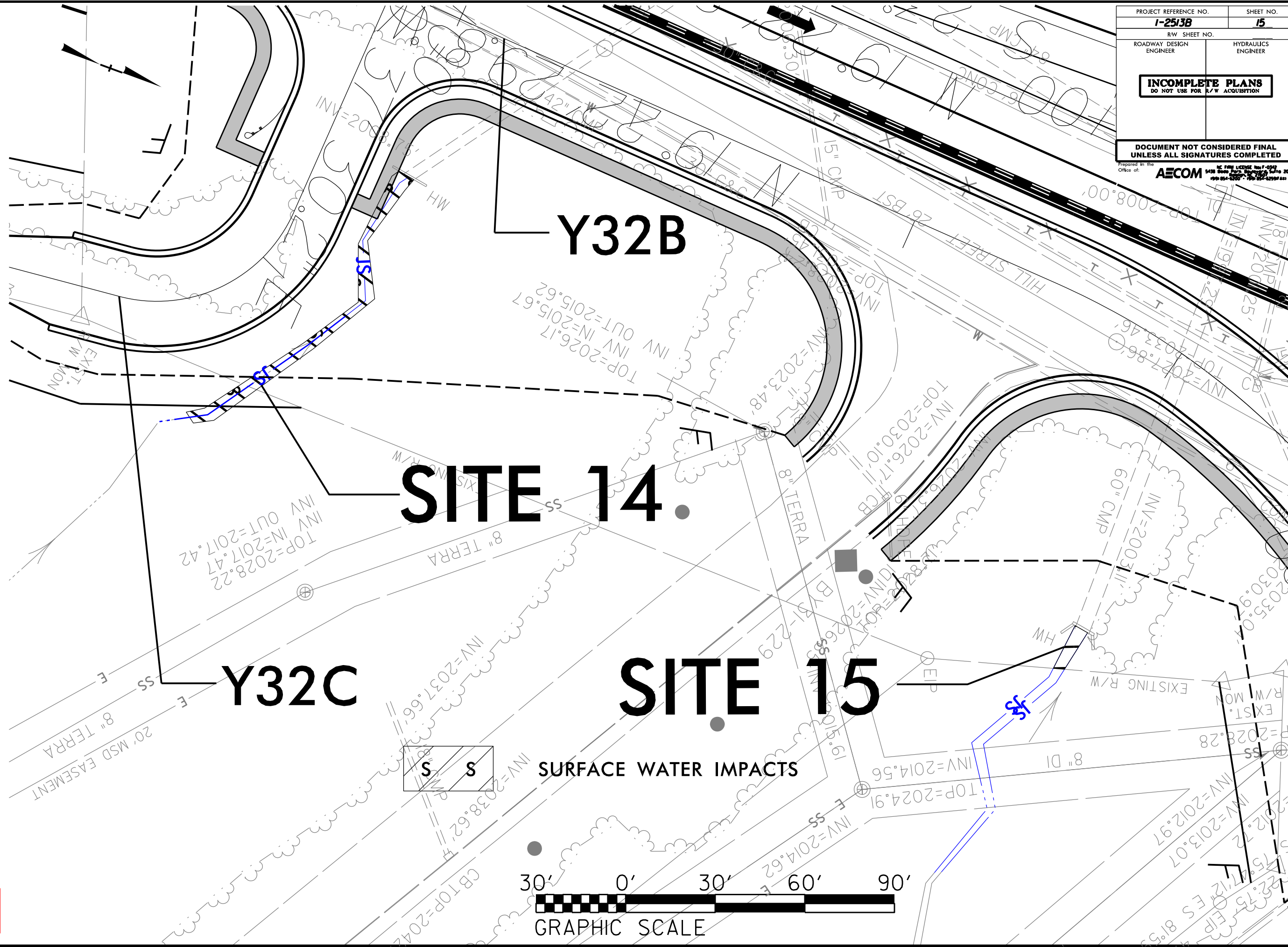


PROJECT REFERENCE NO. I-2513B	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:
AECOM

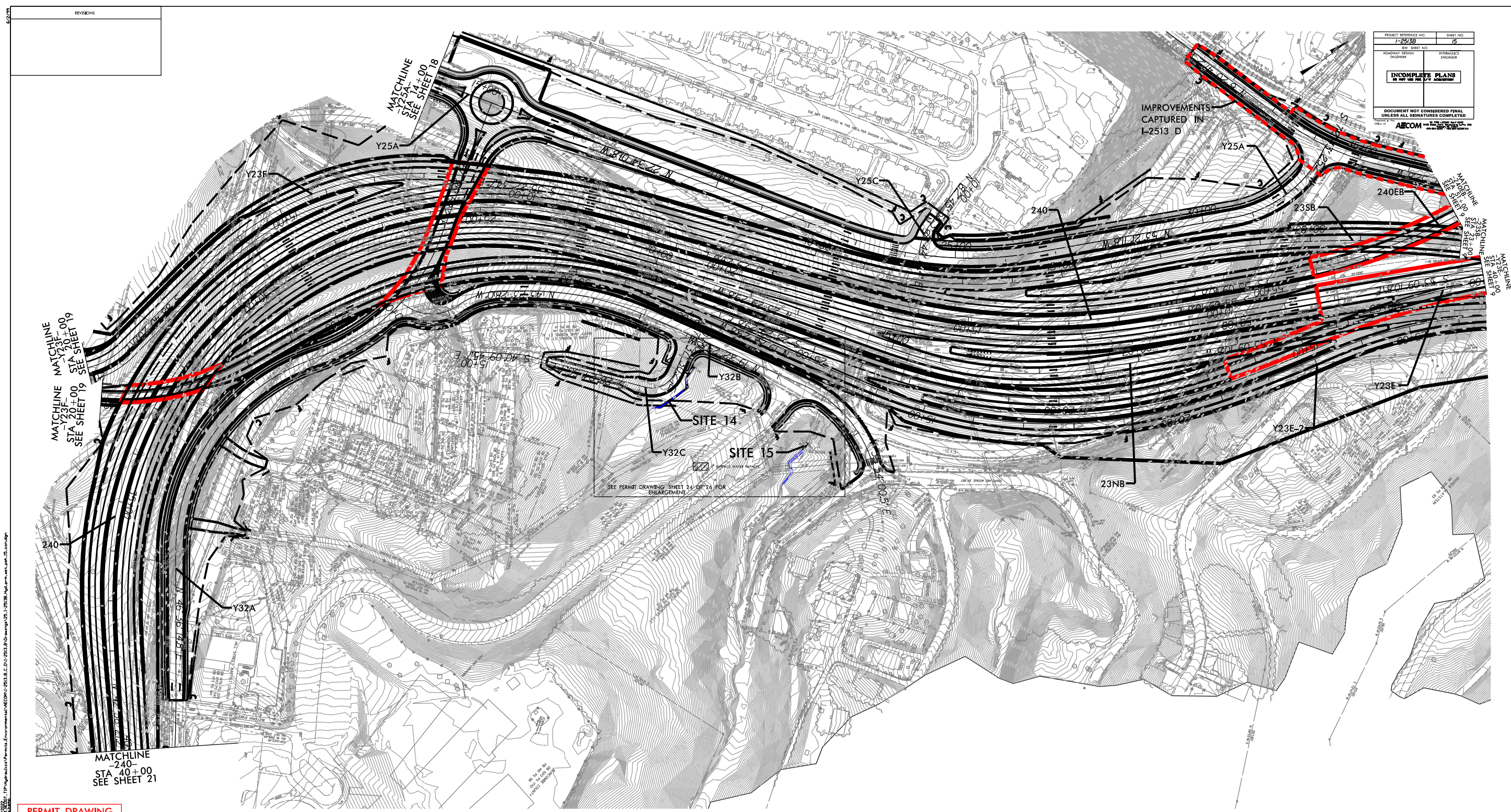
NC FIRM LICENSE NO. F-0542
5438 State Park Road, Suite 200
Raleigh, NC 27607



**PERMIT DRAWING
SHEET 24 OF 26**

NO.	DATE	DESCRIPTION

PROJECT REFERENCE NO.	SHEET NO.
I-2513	15
REV SHEET NO.	
REGISTERED ENGINEER	REGISTERED ENGINEER
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PERMIT DRAWING
SHEET 25 OF 26

I:\Projects\I-2513\I-2513_25.dwg 11/11/2013 11:00:00 AM A:\Users\j\Documents\I-2513_25.dwg 11/11/2013 11:00:00 AM

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	-LA- Sta. 124+58 RT to -LB- Sta. 26+25 LT	Pipe / culvert							< 0.01		50		
		Stream Relocation							0.08		575		
2	-LB- Sta. 35+52 to Sta. 35+58 RT/LT	Pipe / culvert							0.03		297		
3	LB- Sta. 34+39 to Sta. 35+49 LT	Roadway Fill	0.04										
4	-Y7- Sta. 24+87 to Sta. 25+09 LT	Pipe / culvert							< 0.01		25		
5	-Y24- Sta. 10+00 to Sta. 11+58 RT	Roadway Fill							0.03		135		
		Bridge Impacts							< 0.01		26		
6	-LB- Sta. 52+85 to Sta. 54+09 RT/LT	Bridge Impacts							0.05		190		
	-Y7RPA- Sta. 36+52 to Sta 38+00 RT/LT	Culvert Removal							0.03		53		
7	-LB- Sta. 73+55 to Sta. 79+58 LT	Pier Impacts **							0.30				
		Temp. Causeways**								4.54		626	
		Bank Stabilization										694	
8	-23NB- Sta. 31+30 to Sta.31+51 RT	Pipe / culvert							< 0.01		27		
9	-23NB- Sta. 40+58 to Sta. 40+99 RT	Pipe / culvert	< 0.01						< 0.01		35		
10	-23NB- Sta. 42+54 to Sta. 42+70 RT	Pipe / culvert							< 0.01		25		
11	-LB- Sta. 106+88 to Sta. 107+15 RT	Pipe / culvert							0.03		109		
12	LB- Sta. 128+22 to Sta. 128+52 RT	Pipe / culvert							< 0.01		50		
13	-LB- Sta. 143+74 to Sta. 144+38 RT/LT	Bridge Impacts							0.14		426		
14	-Y32C- Sta.10+26 to Sta.10+32 RT	Pipe / culvert							0.01		118		
15	-Y32B- Sta. 19+16 to Sta. 19+40 RT	Pipe / culvert							< 0.01		15		
TOTALS*:			0.04						0.75	4.54	2851	626	

*Rounded totals are sum of actual impacts

NOTES:
Pier Impacts and Bank Stabilization are not considered loss of water impacts.

** Impact numbers calculated in the 2019 document "I-26 Connector Bridge Construction and Demolition"

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 11/23/2022
 Buncombe
 I-2513B
 34165.1.2
 SHEET 26 OF 26