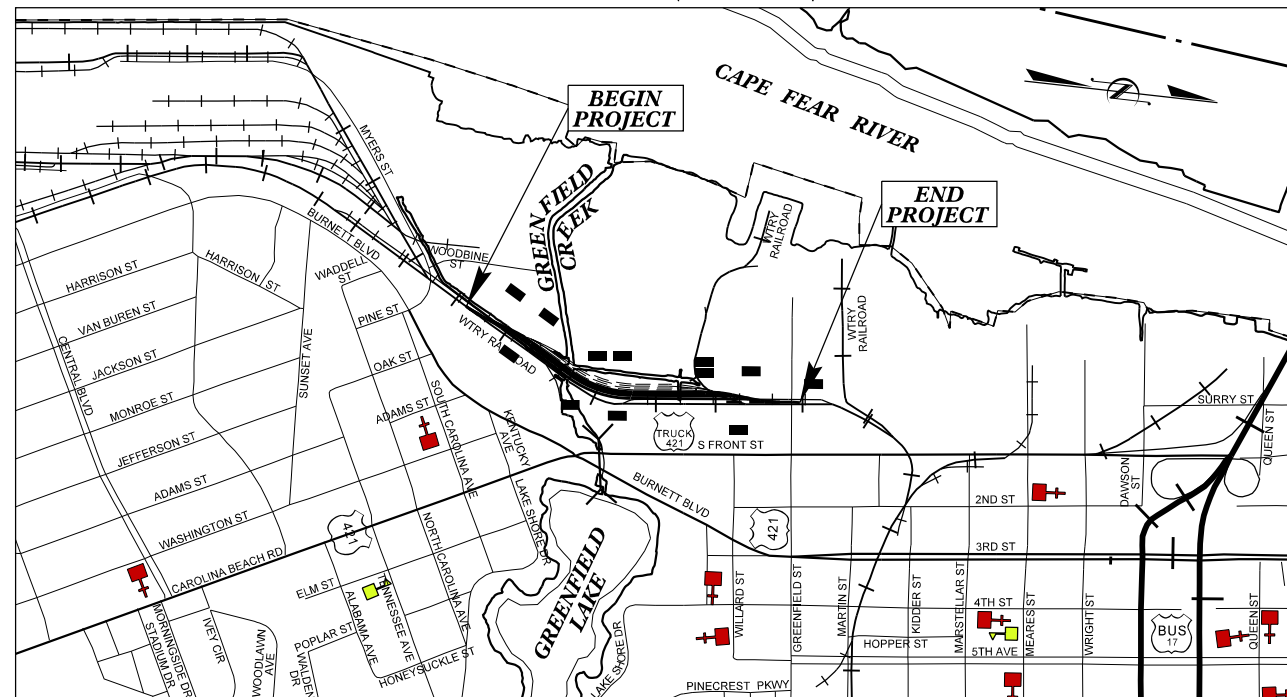
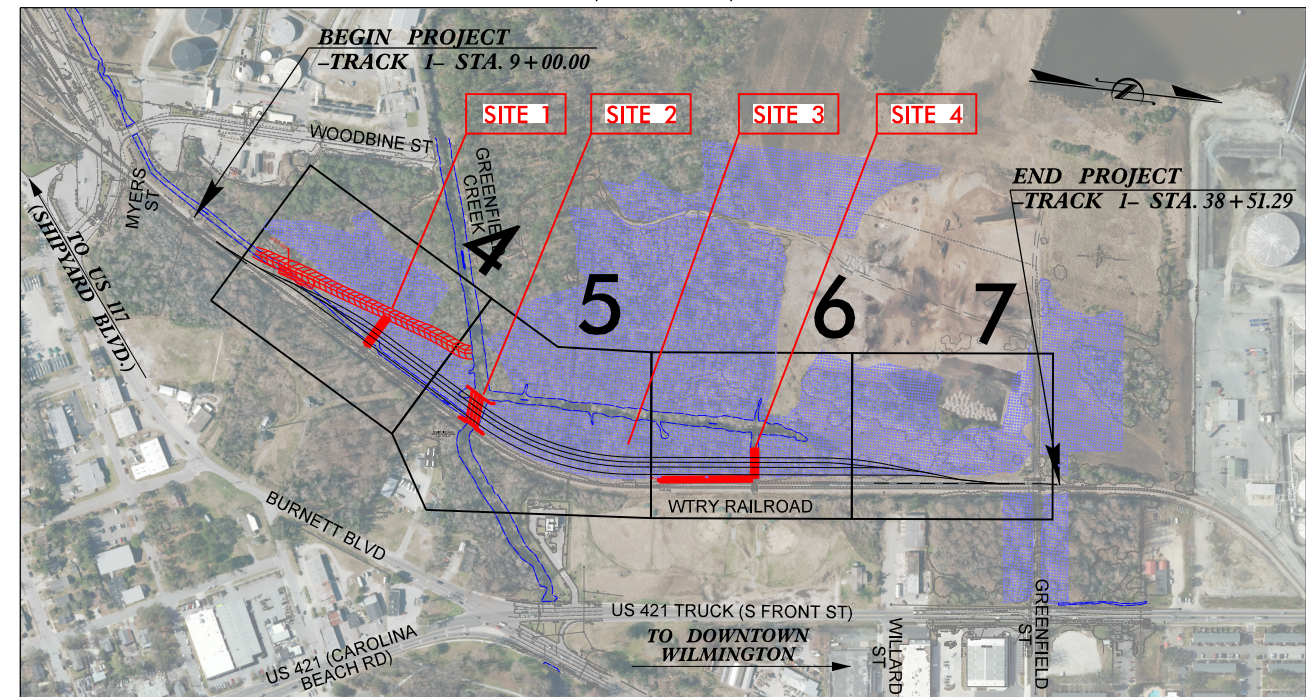


PROPOSED NORTH PROPERTY RAIL STORAGE YARD
WITH GRADING, DRAINAGE,
STRUCTURES, AND TRACK CONSTRUCTION

VICINITY MAP
(NOT TO SCALE)



SITE MAP
(NOT TO SCALE)



DRAINAGE
ENGINEER

PERMIT DRAWING
SHEET 1 OF 15



AL



NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: 24-28650-01
COVER SHEET

NORTH PROPERTY RAIL STORAGE YARD PROJECT

Project # 10678
Contract # AE-480

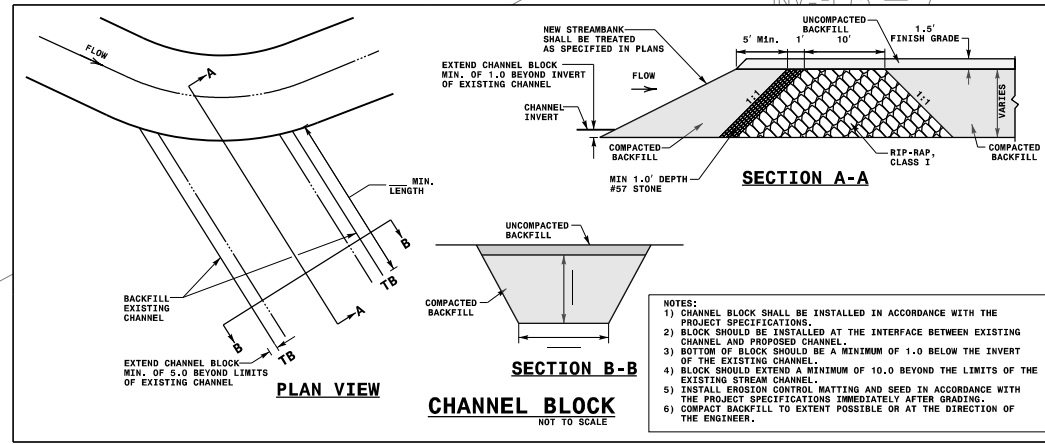
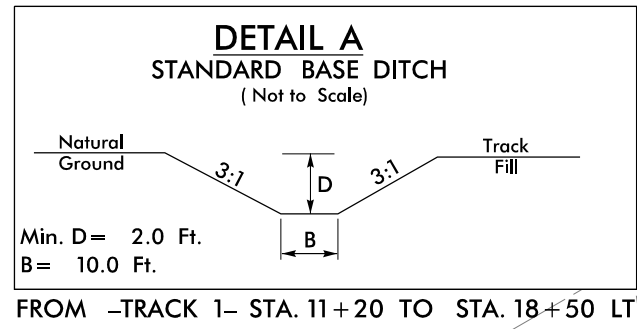
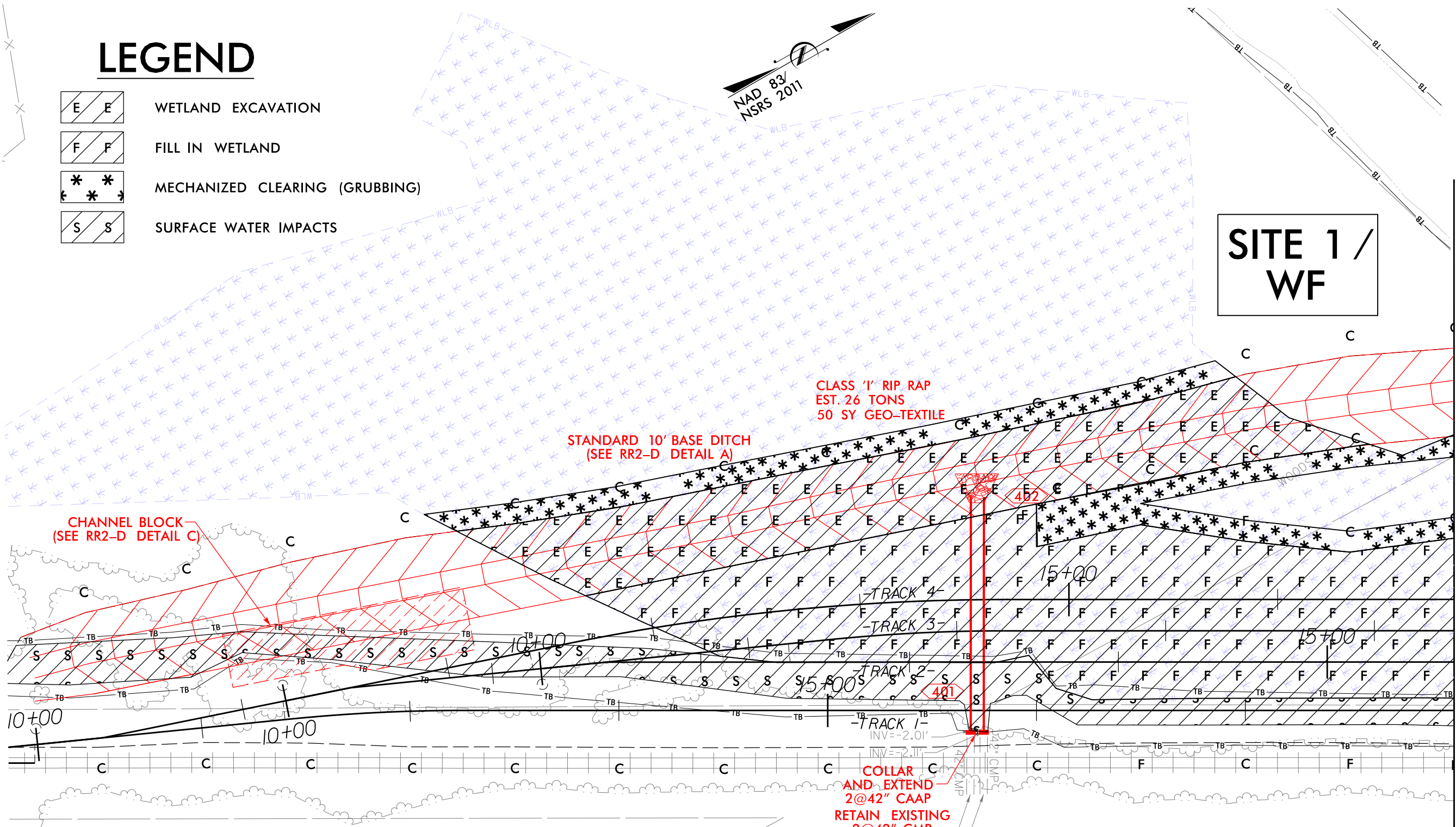
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PRM1

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LEGEND

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



**SITE 1 /
WF**

MATCHLINE - SEE PERMIT PLANSHEET PRM-5

**PERMIT DRAWING
SHEET 2 OF 15**

REV	DESCRIPTION	DATE	ISSUED BY	APP BY

HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	DESIGNED BY: RWB	DRAWN BY: CGM	CHECKED BY: VM/KS	PROJ. MAN. RWB
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SEAL

NORTH CAROLINA PORTS

NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: 24-28650-01

NORTH PROPERTY RAIL STORAGE YARD PROJECT

PORT OF WILMINGTON

Project # 10678
Contract # AE-480

Sheet :
Sheet Size : 22 x 34

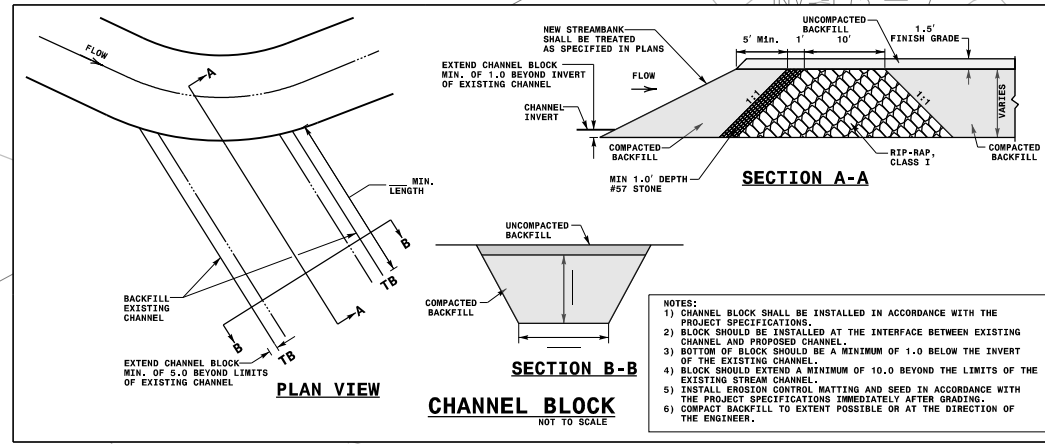
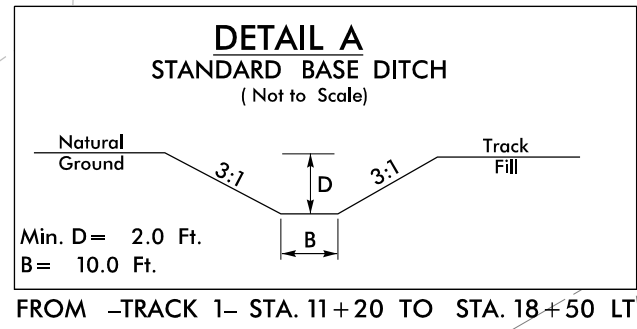
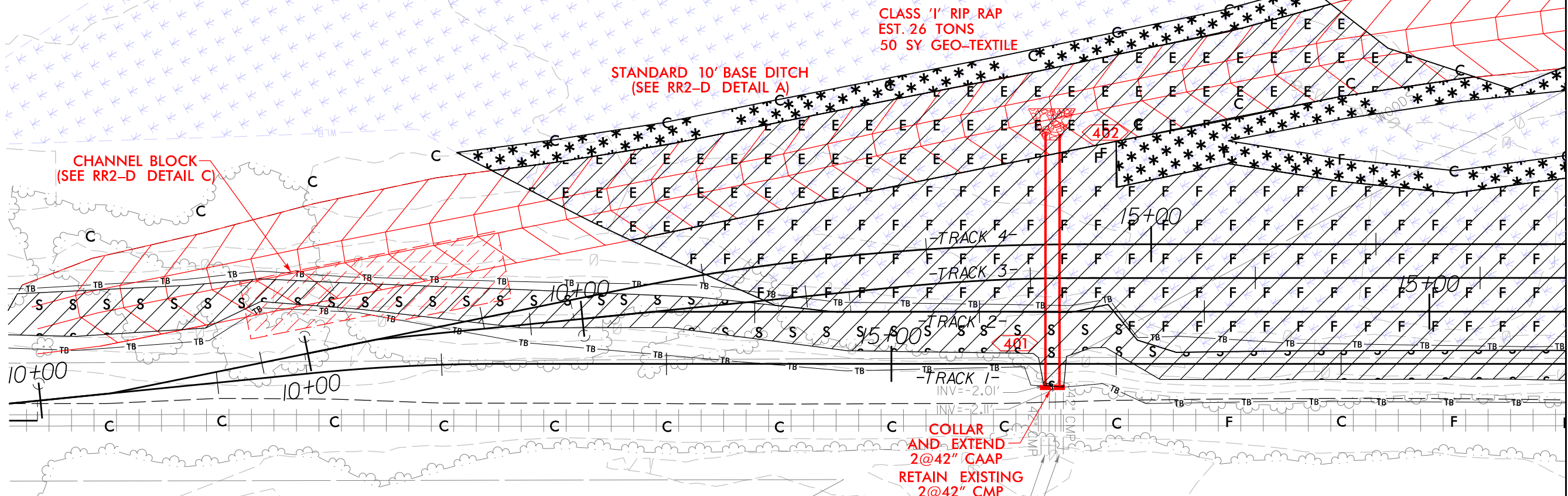
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LEGEND

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



**SITE 1 /
WF**



MATCHLINE - SEE PERMIT PLANSHEET PRM-5

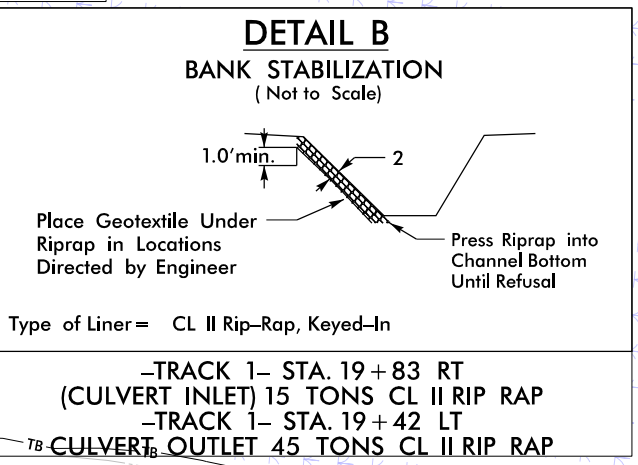
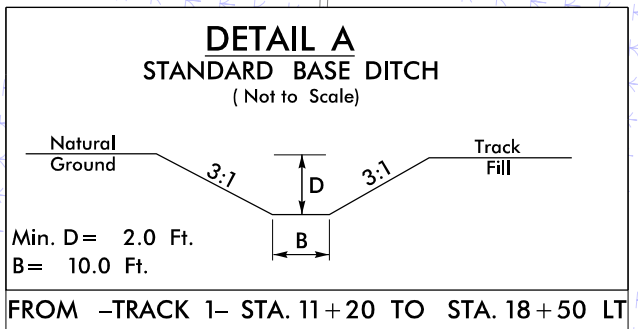
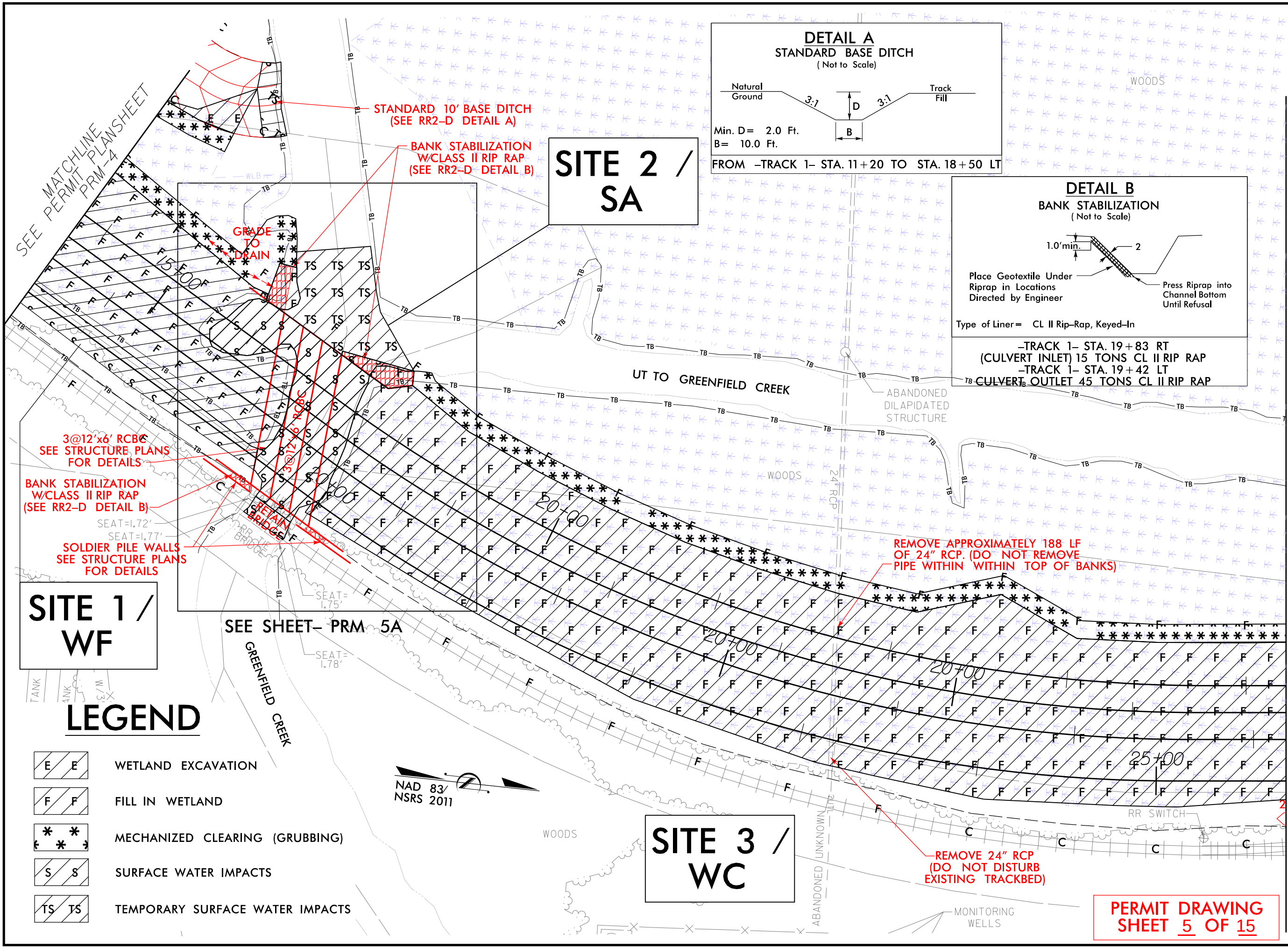
REV	DESCRIPTION	DATE	ISSUED BY	APP BY

 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	DESIGNED BY: RWB	DRAWN BY: CGM	CHECKED BY: VM/KS	PROJ. MAN. RWB
	SEAL			
	NORTH CAROLINA STATE PORTS AUTHORITY SCO ID: 24-28650-01 NORTH PROPERTY RAIL STORAGE YARD PROJECT PORT OF WILMINGTON			

Project # 10678 Contract # AE-480
Sheet : Sheet Size : 22 x 34

**PERMIT DRAWING
SHEET 3 OF 15**

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- LEGEND**
- E E WETLAND EXCAVATION
 - F F FILL IN WETLAND
 - * * MECHANIZED CLEARING (GRUBBING)
 - S S SURFACE WATER IMPACTS
 - TS TS TEMPORARY SURFACE WATER IMPACTS

MATCHLINE SEE PERMIT PLANSHEET PRM-6

SEAL

NORTH CAROLINA PORTS

NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: 24-28650-01

Project # 10678
Contract # AE-480

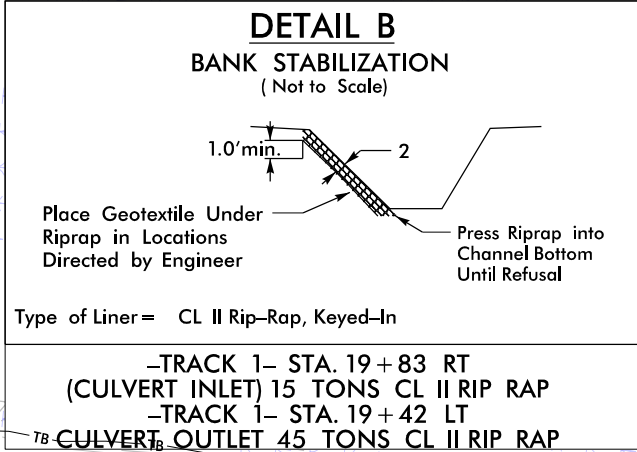
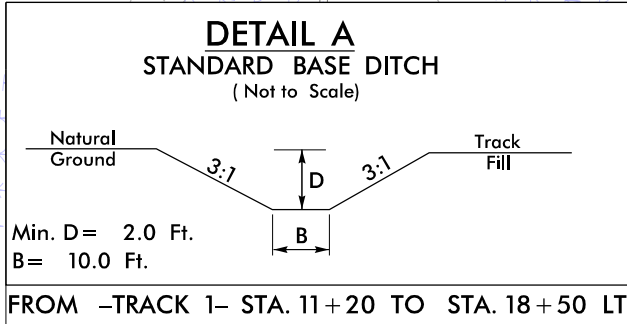
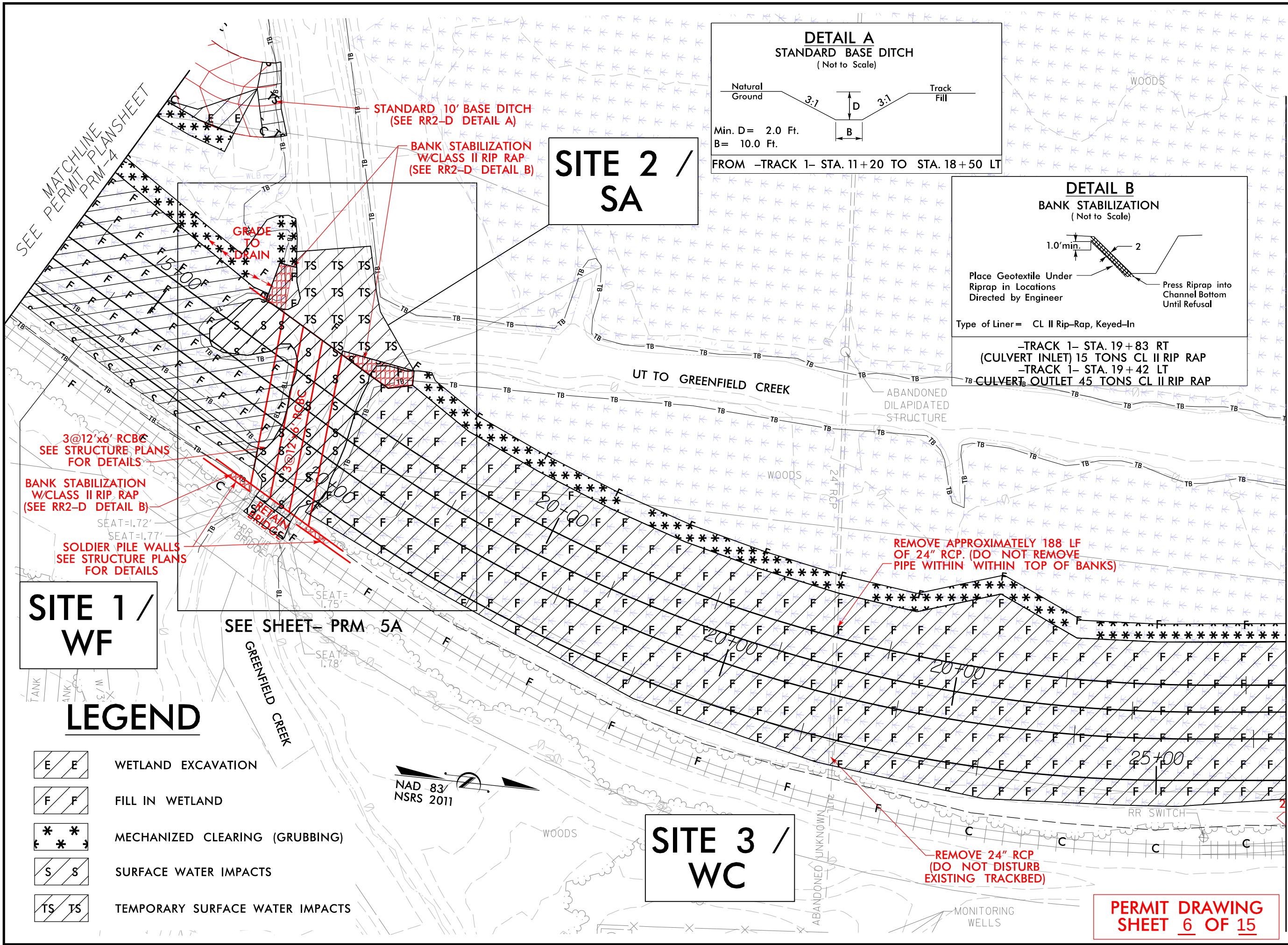
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Sheet Size : 22 x 34

DESIGNED BY: RWB
DRAWN BY: CGM
CHECKED BY: VM/KS
PROJ. MAN.: RWB

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N.C.B.E.L.S. License Number: F-0116

ISSUED BY: APP BY: DATE: DESCRIPTION: REV:

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**SITE 1 /
WF**

**SITE 2 /
SA**

**SITE 3 /
WC**

LEGEND

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

**PERMIT DRAWING
SHEET 6 OF 15**

MATCHLINE SEE PERMIT PLANSHEET PRM-6

REV	DESCRIPTION	DATE	ISSUED BY	APP BY

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555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

PC

SEAL

NORTH CAROLINA PORTS

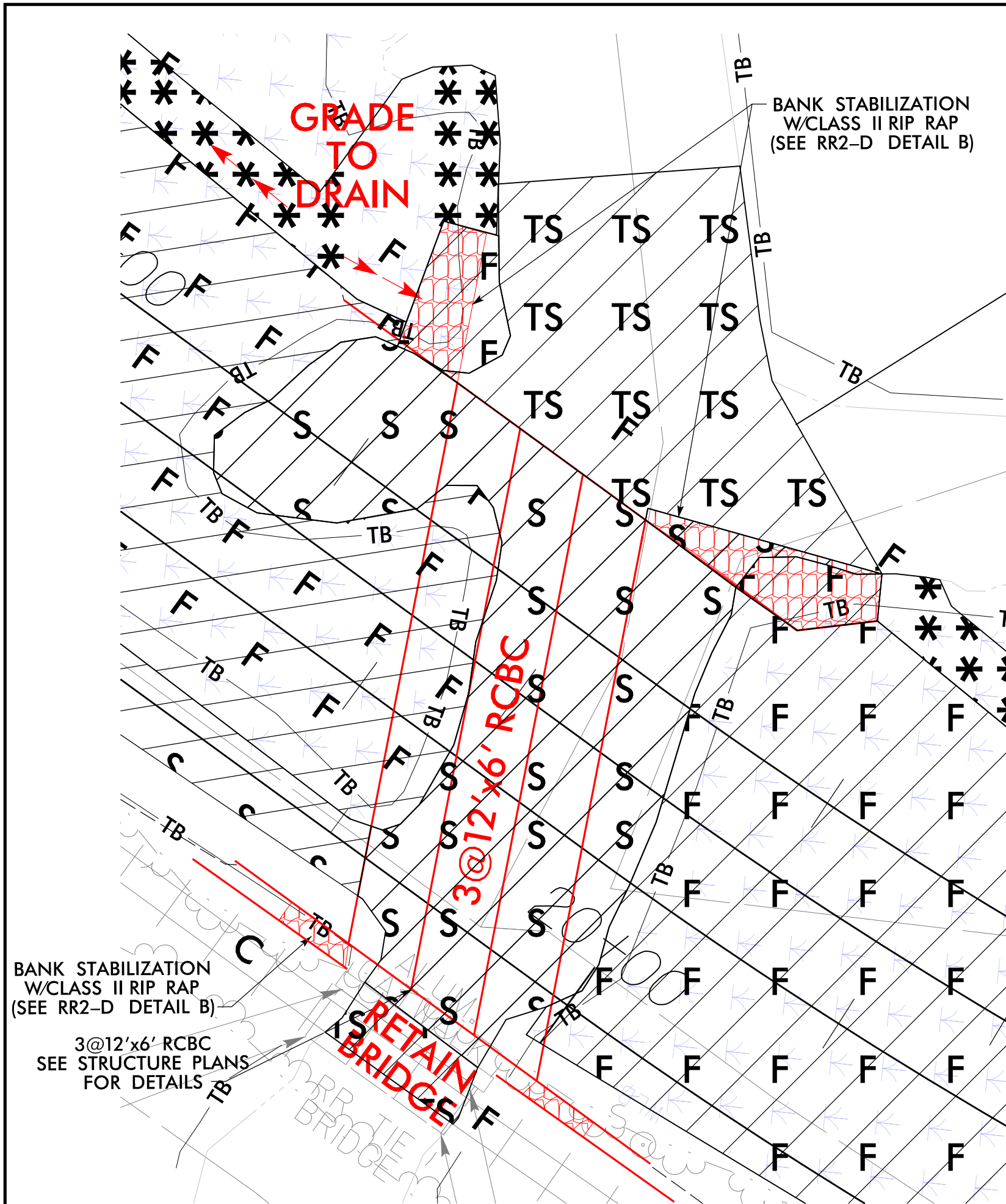
NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: 24-28650-01

Project # 10678
Contract # AE-480

Sheet :
Sheet Size : 22 x 34

NORTH PROPERTY RAIL STORAGE YARD PROJECT
PORT OF WILMINGTON

DESIGNED BY: RWB
DRAWN BY: CGM
CHECKED BY: VM/KS
PROJ. MAN.: RWB



SITE 2 / SA

NAD 83/
NSRS 2011

LEGEND

A 2x2 grid with diagonal lines from bottom-left to top-right. The top-left and bottom-right cells are shaded and labeled 'E'.

WETLAND EXCAVATION

F	T
T	F

FILL IN WETLAND

A 2x2 grid of asterisks. The top row contains two asterisks, and the bottom row contains two asterisks.

MECHANIZED CLEARING (GRUBBING)



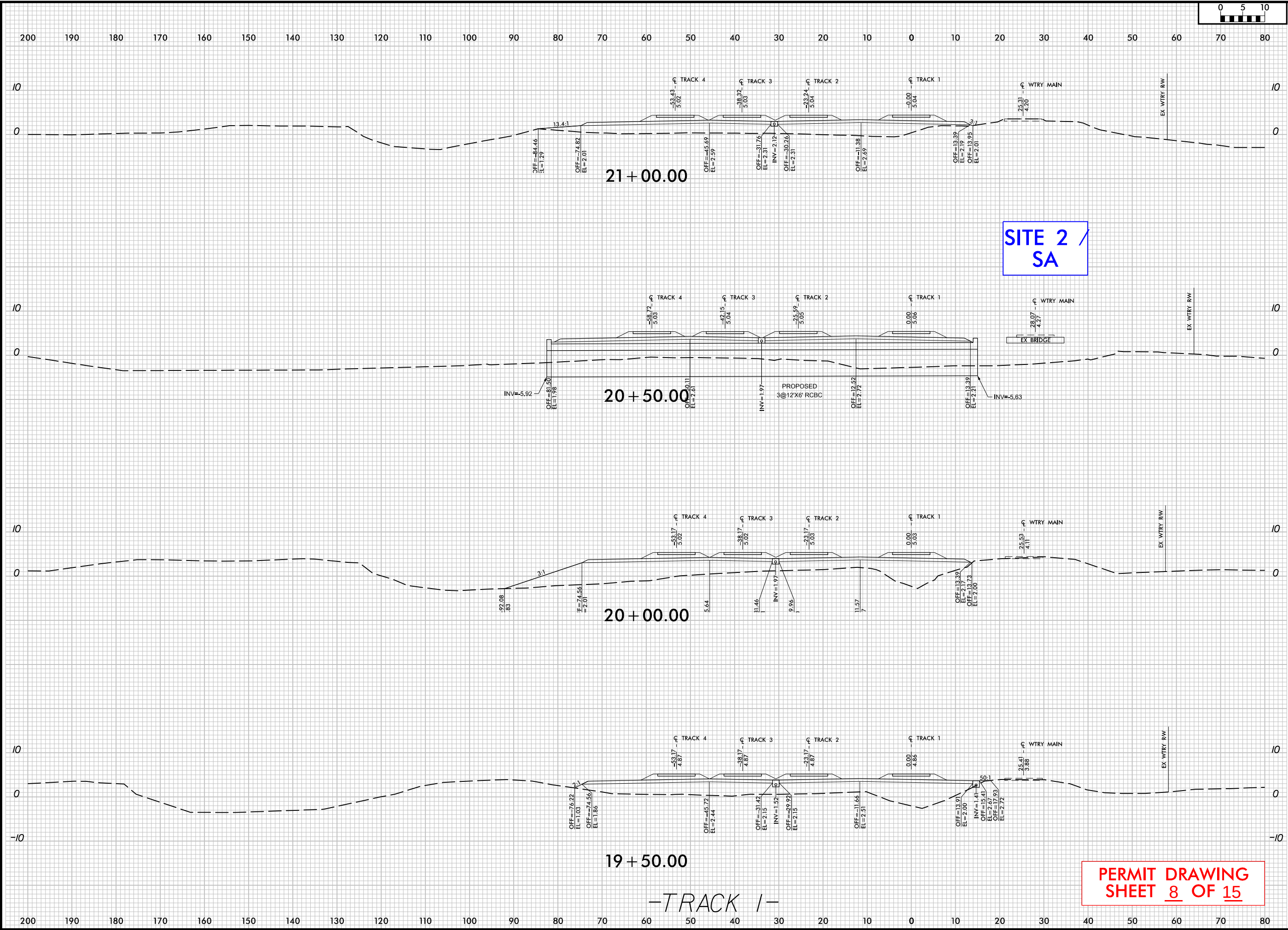
TS TS

TEMPORARY SURFACE WATER IMPACTS

A square divided by three parallel diagonal lines from the top-left to the bottom-right. The lines create four regions. The second and third regions from the top are shaded and each contains a bold black letter 'S'.

SURFACE WATER IMPACTS

 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	REV	DESCRIPTION	DATE	ISSUED BY	APP BY	
SEAL 	DESIGNED BY: RWR	DRAWN BY: CJM	CHECKED BY: VMIKS	PROJ. MAN. RWR		
NORTH CAROLINA STATE PORTS AUTHORITY SCO ID: 24-28650-01 NORTH PROPERTY RAIL STORAGE YARD PROJECT Project # 10678 Contract # AE-480 Sheet : Sheet Size : 22 x 34						



ISSUED BY	APP BY	DATE	DESCRIPTION	REV

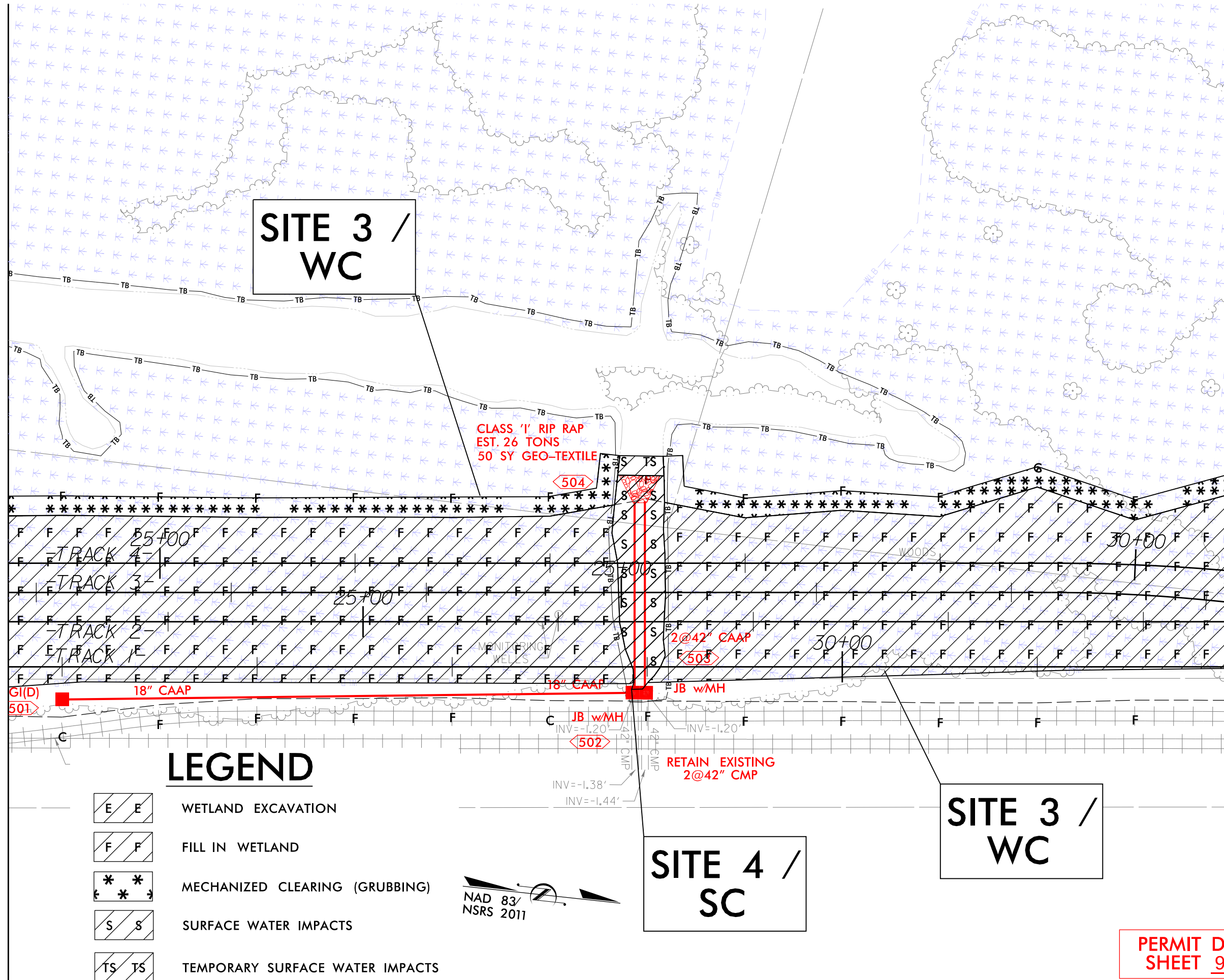
DESIGNED BY:	DRAWN BY:	CHECKED BY:	PROJ. MAN.
RWB	AN	CPR	RWB

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

NORTH CAROLINA PORTS

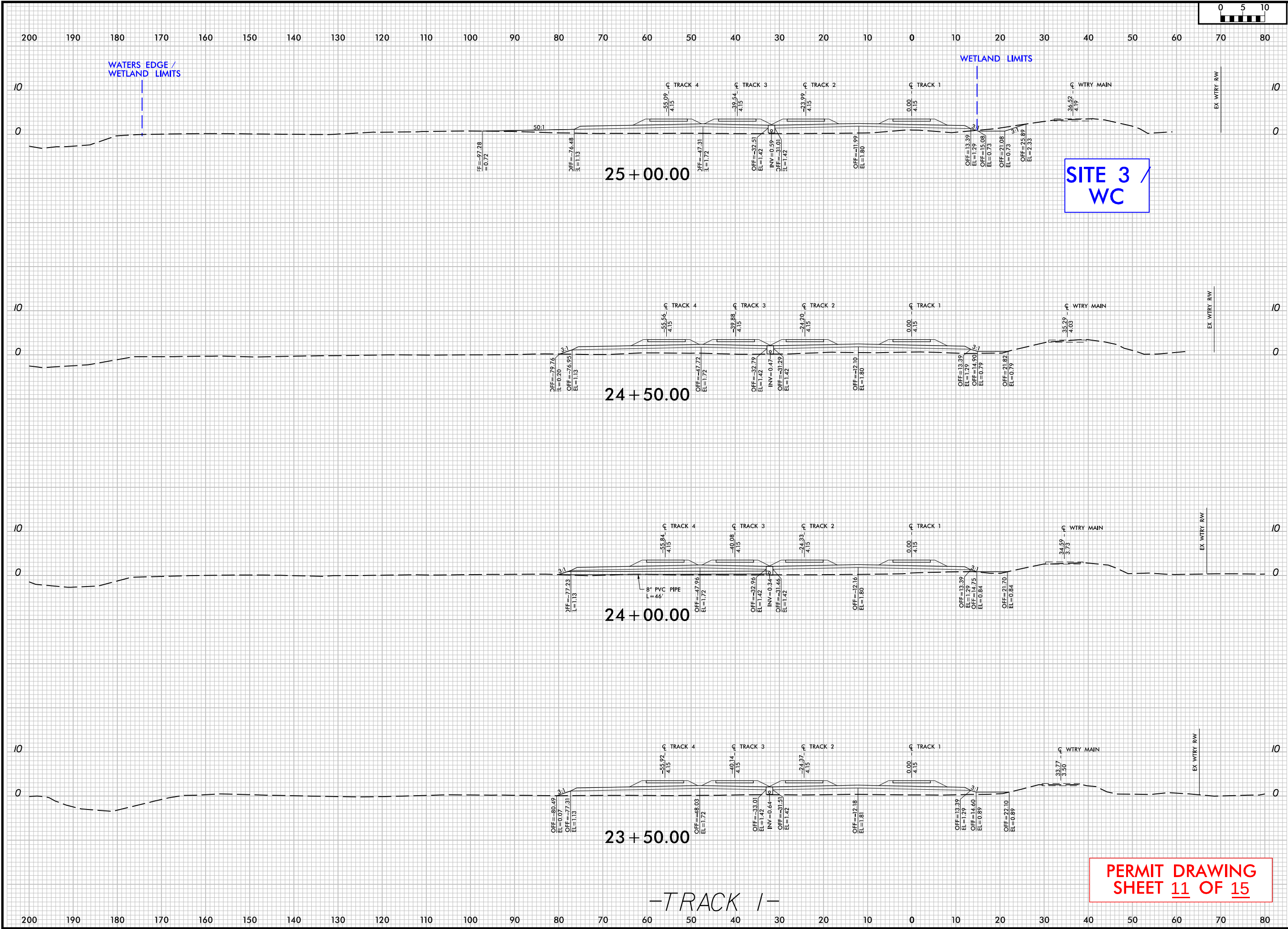
NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: XX-XXXX-XXX
TRACK CROSS SECTIONS
NORTH PROPERTY RAIL STORAGE YARD PROJECT
PORT OF WILMINGTON

Project # 10678 Contract # AE-480
Sheet : X of X Sheet Size : 22 x 34
X-9

[illegible]



DESIGNED BY: RWB	DRAWN BY: CGM	CHECKED BY: VM/KS	PROJ. MAN. RWB
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ISSUED BY	DATE	DESCRIPTION	REV

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DESIGNED BY: RWB

DRAWN BY: AN

CHECKED BY: CPR

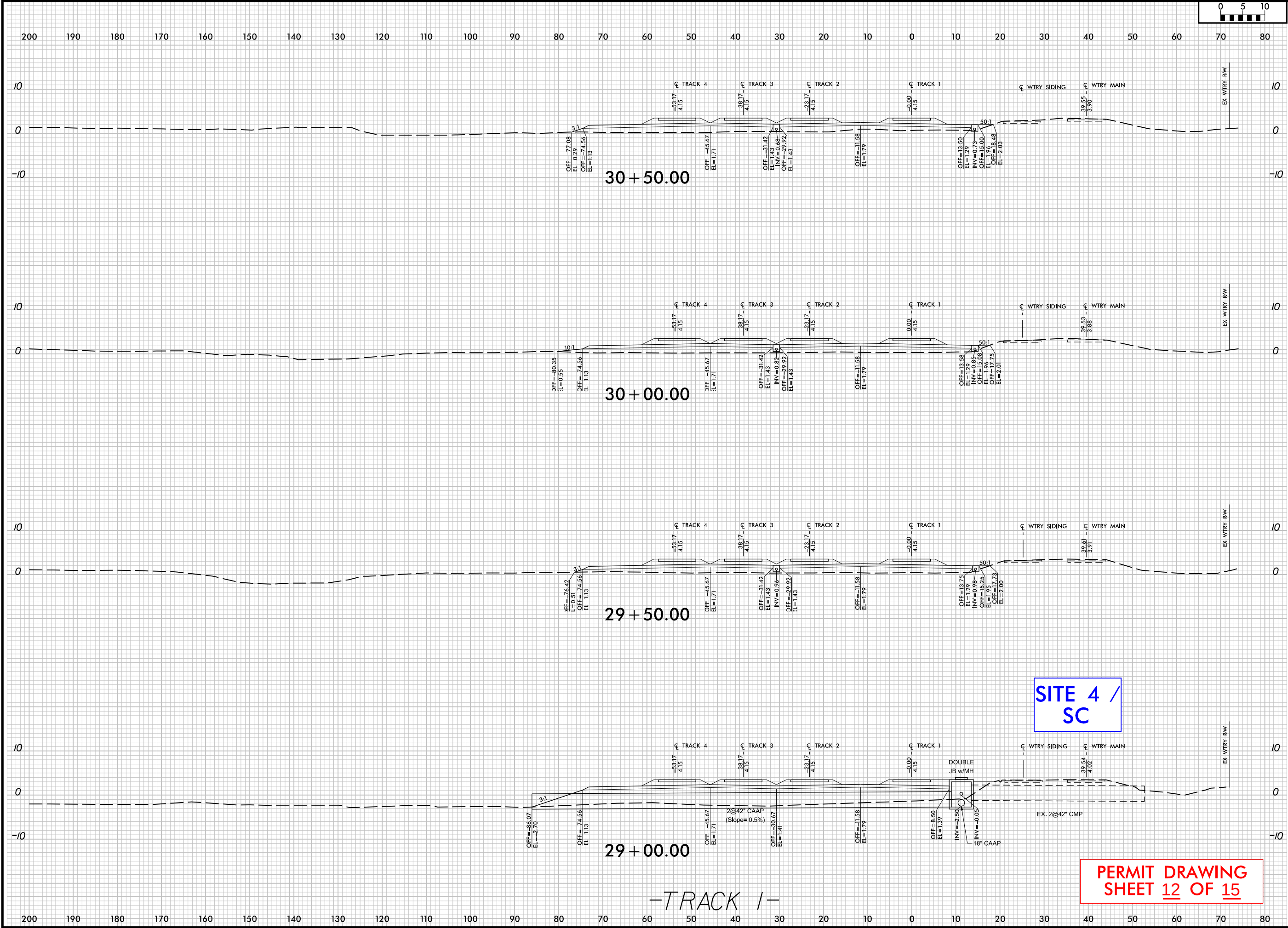
PROJ. MAN: RWB

NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: XX-XXXX-XXX
TRACK CROSS SECTIONS
NORTH PROPERTY RAIL STORAGE YARD PROJECT
PORT OF WILMINGTON

Project # 10678
Contract # AE-480

Sheet : X of X
Sheet Size : 22 x 34

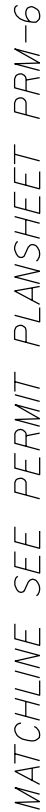
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SITE 4 /
SC

PERMIT DRAWING
SHEET 12 OF 15

ISSUED BY		APP BY	
DATE			
DESCRIPTION			
REV			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116		PROJ. MAN. RWB	CHECKED BY: CPR
DESIGNED BY: RWB		DRAWN BY: AN	
NORTH CAROLINA PORTS			
NORTH CAROLINA STATE PORTS AUTHORITY SCO ID: XX-XXXX-XXX TRACK CROSS SECTIONS NORTH PROPERTY RAIL STORAGE YARD PROJECT PORT OF WILMINGTON			
Project # 10678 Contract # AE-480			
Sheet : Sheet Size : 22 x 34		X of X 22 x 34	
X-14			



A rectangular element with diagonal hatching (lines from bottom-left to top-right). Two bold capital letters 'E' are placed inside the rectangle, one on the left and one on the right.

A 2x2 grid with diagonal lines from the top-left to the bottom-right. The top-left and top-right cells contain the letter 'F'.

MECHANIZED CLEARING (GRUBBING)



SITE 3 / WC

PERMIT DRAWING
SHEET 13 OF 15

</									
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MECHANIZED CLEARING (GRUBBING)

NAD 83/
NSRS 2011

SITE 3 / WC

~~GRADE
TO
DRAIN~~

PUMP
STATION

-PAVED

GATE

72
CHL72
CH

-PAVED

NORTH CAROLINA STATE PORTS AUTHORITY
SCO ID: 24-28650-01

SCO ID: 24-28650-01

NORTH PROPERTY RAIL STORAGE YARD PROJECT

PORT OF WILMINGTON

Project # 10678
Contract # AE-480

Sheet :
Sheet Size : 22 x 34

PERMIT DRAWING
SHEET 14 OF 15

SEAL



HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

CHECKED BY:

DRAWN BY:

DESIGNED BY:

PROJ. MAN.

RWB

[illegible]

WETLAND AND SURFACE 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)
1 / WF	TRACK1: 13+20-19+55	FILL (RAILROAD)	0.81	0.02		0.23						
	TR1: 13+25 - 18+50 (LT)	PROPOSED 10' BASE DITCH			0.34				0.01			
	TR1: 11+00 - 19+55 (RT)	FILL (EXITING DITCH)						0.29		858		
2 / SA	TRACK1: 19+55-20+00	(3)12'x6' CULVERT						0.11	0.07	97	67	
		BANK STABILIZATION	0.01					< 0.01			5	
3 / WC	TRACK1: 20+00 - 36+29	FILL (RAILROAD)	2.69			0.37						
	TR1: 33+50 - 36+25 (LT)	CUT DITCH			0.04							
4 / SC	TRACK1: 29+00	(2) 42" CAAP						0.06	< 0.01	110	10	
TOTALS*:			3.51	0.02	0.38	0.60		0.46	0.09	1065	82	0

NOTES:

SHEET 15 OF 15