



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

DANIEL H. JOHNSON  
SECRETARY

February 17, 2026

U.S. Army Corps of Engineers  
Water Resources Development Act (WRDA)  
Transportation Permitting Branch

NC Division of Water Resources  
Transportation Permitting Branch

ATTN: Ms. Crystal Amschler,  
NCDOT Coordinator

Ms. Amy Annino,  
NCDOT Coordinator

Subject: **Section 404 Regional General Permit 50 & 401 Individual Water Quality Certification**  
for permanent repairs to US 74 A (Gerton Highway) from Bearwallow Mountain Road in  
Gerton to East of the NC 9 intersection in Bat Cave. Henderson County, Division 14, WBS  
18314.1045039.

Dear NCDOT Coordinators:

The North Carolina Department of Transportation (NCDOT) proposes the following project as the result of damage caused by Hurricane Helene in late September 2024:

Repairs to 2.17 miles of US 74A from Bearwallow Mountain Road to Grant Mountain Road.

**Approvals Requested:**

**404 Regional General Permit 50.** Notification due to the use of an RGP 50.

**401 Individual Water Quality Certification.** Notification required due to Tr stream designation.

FHWA is the lead federal agency for this project.

**General work description:**

Several pipes along this route were damaged or obstructed with storm debris. This project proposes to clean, repair, or replace 17 structures. A description of the impact is found in the following tables.

## Streams in the Project Area

Permit Site	Stream Name	Status/Class	Perm Fill (loss)	Bank Stabilization	Temporary Impact	ACOE Mitigation Required	DWR Mitigation Required	Impact Description
1	Hickory Nut Creek & UT to same	Perennial	--	95 lf 0.03 ac	35 lf < 0.01 ac	--	--	<b>Permanent bank stabilization</b> is necessary to stabilize and reduce water velocity at the tributary and Hickory Nut Creek confluence. Temporary impacts upstream and downstream of bridge are shown for construction methods and access.
2	UT Hickory Nut Creek		--	--	3 lf < 0.01 ac	--	--	<b>The existing 18” CSP requires removal of debris material and a section to be replaced.</b> The temporary impact is due to outlet protection tying to the jurisdictional stream. Jurisdiction of the stream begins beyond the outlet of the 18” CSP.
3	Hickory Nut Creek	Perennial	433 lf 0.12 ac	110 lf 0.04 ac	39 lf <0.01	433	433	<b>Stream realignment is necessary due to the roadway repair and moving the channel away from the roadway for future hazard mitigation.</b> Permanent bank stabilization is needed downstream of the Konatoga Circle crossing to stabilize the banks and reduce water velocity. Temporary impacts are shown for dewatering upstream and downstream of the channel realignment.
4	UT Hickory Nut Creek		--	--	86 lf < 0.01 ac	--	--	Temporary stream impacts are due to being located within the Temporary Construction Easement. The stream will be repaired if there are any impacts during construction.
5	UT Hickory Nut Creek		9 lf < 0.01 ac	--	18 lf < 0.01 ac	9 lf	9 lf	<b>The existing 6’x4’ RCBC requires removal of debris material.</b> Temporary impacts to the stream are required for equipment to access the pipe and for temporary dewatering (pump around) as well as tie in of the ditches at the pipe RCBC inlet. <b>Pipe Removal/Stream daylighting.</b> Permanent stream impacts for outlet protection is needed at the downstream end of the RCBC. The existing 36” RCP will be removed and the stream will be daylighted with a 4’ base ditch.
6	Hickory Nut Creek	Perennial	--	--	39 lf 0.01 ac	--	--	<b>Remove Pipe and Replace with Base Ditch/Stream Daylighting.</b> Temporary impacts are illustrated at Hickory Nut Creek due to replacing the existing pipe with a 4’ base ditch and tying in the daylighted section of stream to Hickory Nut Creek. This includes impacts to the extent of the construction easement.
7	UT Hickory Nut Creek		--	52 lf < 0.01 ac	15 lf < 0.01 ac	--	--	<b>Bank Stabilization.</b> Existing banks along the stream channel adjacent to the road require permanent bank stabilization. Temporary impacts shown upstream are for dewatering and access, if necessary, during construction.
8	UT Hickory Nut Creek		--	7 lf < 0.01 ac	28 lf < 0.01 ac	--	--	<b>Bank Stabilization.</b> Existing banks along the stream channel and adjacent Site 7 require permanent bank stabilization. Temporary impacts shown upstream are for dewatering and access, if necessary, during construction.
9	Hickory Nut Creek	Perennial	--	97 lf 0.03 ac	31 lf 0.03 ac	--	--	<b>The existing double barrel culvert requires removal of debris material.</b> Temporary impacts upstream and downstream are for dewatering and access, if necessary, during construction. <b>Bank Stabilization.</b> Existing banks along the stream channel adjacent to the road require permanent bank stabilization upstream and downstream of the double barrel crossing of Hickory Nut Creek.
10	Hickory Nut Creek	Perennial	--	--	28 lf <0.01 ac	--	--	<b>24” RCP-IV installation.</b> An energy dissipator pad is being installed at the outlet of the 24” RCP. The 24” RCP is part of the roadway drainage system and is not associated with a jurisdictional stream. The rip rap pad does not tie to Hickory Nut Creek. Temporary impacts are shown at Hickory Nut Creek within the easement for construction access if needed.
11	UT Hickory Nut Creek		87 lf 0.01 ac	17 lf <0.01 ac	8 lf <0.01 ac	87	0	<b>Replace existing 7’x 8’ RCBC with an 8’x 8’RCBC.</b> Permanent stream impacts are included for bank stabilization necessary at the inlet of the RCBC. Permanent impacts downstream of the RCBC are to tie the unnamed tributary back to the relocated Hickory Nut Creek (Site 12). Temporary impacts shown upstream of the RCBC are for dewatering and construction access.
12	Hickory Nut Creek	Perennial	531 lf 0.2 ac	0	14 lf < 0.01 ac	531	531	<b>Stream realignment.</b> Damage to the roadway structure from Hurricane Helene requires the permanent realignment of the channel at this location.
13	Hickory Nut Creek	Perennial	33 lf < 0.01 ac	0	72 lf 0.01 ac	33	33	<b>Slope Repair / Construction Easement.</b> Temporary impacts are illustrated at this location due to the construction easement. Permanent impacts along Hickory Nut Creek are for installation of the rip rap at embankment at the base of the grouted base ditch necessary for the slope repair.

Permit Site	Stream Name	Status/Class	Perm Fill (loss)	Bank Stabilization	Temporary Impact	ACOE Mitigation Required	DWR Mitigation Required	Impact Description/ Avoidance and Minimization
14	UT to Hickory Nut Creek		99 lf 0.01 ac	0	15 < 0.01 ac	99	0	<b>The existing 3.5'x 2.5' RCBC requires removal of debris material.</b> Temporary impacts to the stream are required for equipment to access the pipe and for temporary dewatering (pump around). <b>Slope and drainage system repair.</b> Permanent impacts are needed for updates and repair of the drainage system and slope at this location. A section of stream that is currently daylighted will be placed in a 48" CSP when repairing the slope that failed in this location. Permanent impacts for inlet protection are needed at upstream end of the 3.5' x 2.5' RCBC. An energy dissipator pad is needed at the outlet of the drainage system.
15	UT Hickory Nut Creek		78 lf < 0.01 ac	--	3 lf < 0.01 ac	78	0	<b>Install New 36" RCP-IV</b> This location requires changes to the drainage system with installation of a new 36" RCP, stabilization of the existing channel with a 3' base ditch at the inlet of the pipe, and backfill of the stream channel which is directly adjacent to the roadway. Temporary impacts to the stream are required for equipment to access the pipe and for temporary dewatering (pump around).
16	UT Hickory Nut Creek		40 lf < 0.01 ac	--	42 lf < 0.01 ac	40	0	<b>Remove existing 18" RCP and replace with 48" RCP-IV</b> This location requires changes to the drainage system associated with Site 15. An existing 18" RCP under the road will be replaced with a new 48" RCP with inlet and outlet protection. Temporary impacts to the stream are required for equipment to access the pipe and for temporary dewatering (pump around).
17	UT Hickory Nut Creek		105 lf < 0.01 ac	--	18 lf < 0.01 ac	105	--	<b>Channel realignment and 2' x 4'RCBC debris removal.</b> Stream impacts are due to storm debris blocking the existing 2'x4' RCBC at the inlet which caused a secondary channel to form along the roadway. The existing RCBC will be cleaned and retained. The stream will then be reestablished to a single channel and reconnected to the 2'x4' RCBC crossing.
18	UT Hickory Nut Creek		99 lf 0.02 ac	--	14 lf < 0.01 ac	99	--	<b>Removal of existing 24" CMP and installation of new 30" RCP-IV/30" CSP/30" RPC-III.</b> Permanent impacts are a result of stabilization of the existing channel with 3' base ditch at the inlet and outlet protection. Temporary impacts to the stream are required for equipment to access the pipe and for temporary dewatering (pump around).
19	Hickory Nut Creek	Perennial	774 lf 0.29 ac	--	59 0.02 ac	774	774	<b>Stream realignment.</b> Damage to the roadway structure from Hurricane Helene requires the permanent realignment of the channel at this location.
20	Hickory Nut Creek	Perennial	198 lf 0.07 ac	--	68 lf 0.03 ac	198	198	<b>Stream realignment.</b> Damage to the roadway structure from Hurricane Helene requires the permanent realignment of the channel at this location.
21	Hickory Nut Creek	Perennial	765 lf 0.25 ac	--	76 lf 0.03 ac	765	765	<b>Stream realignment.</b> Damage to the roadway structure from Hurricane Helene requires the permanent realignment of the channel at this location.
22	Hickory Nut Creek	Perennial	23 lf < 0.01 ac	--	17 < 0.01 ac	23	23	<b>Removal of existing concrete box culvert (size unknown) and installation of new 48" RCP-IV. Stream realignment.</b> Inlet stabilization at the 48" RCP inlet at the special "V" ditch tie-in and stream realignment at the outlet to tie into the relocated Hickory Nut Creek. Temporary impacts to the stream are required for equipment to access the pipe and for temporary dewatering (pump around).
Sheet Totals:			3,274 lf 1 ac	378 lf 0.09 ac	728 lf 0.20 ac	3,274	0	
			3,652 lf 1.09 ac					

#### Wetlands in the Project Area

Permit Site	Excavation in Wetlands (loss)	Temporary Impacts in Wetlands	ACOE Mitigation Required	Impact Description/ Avoidance and Minimization
4	<0.01 ac	--	*	<b>Excavation for the channel realignment.</b> A small amount (<0.01 ac) of permanent excavation in wetlands occurs at this location due to the channel realignment at Site 3. Additional hand clearing (0.06 ac) is illustrated in wetlands within the Temporary Construction Easement. *Due to the small amount of wetland impacts at this location, NCDOT does not propose mitigation for this activity.

**Endangered Species Act:** Protected Species listed from IPaC<sup>1</sup> as of the date of this application:

Common Name	Habitat Present	Survey Dates	Proposed Biological Conclusion	FWS Concurrence Remarks
Gray bat Northern long-eared bat Tricolored bat (Proposed)	Yes	n/a	May Affect, Likely to Adversely Affect (under PBO/PCO)	Concur (attached)
White irisette	Yes	6/9-10/2025	No Effect	n/a
Small whorled pogonia	Yes	6/9-10/2025	No Effect	n/a
Rock gnome lichen	No	n/a	No Effect	n/a
Bog turtle <sup>2</sup>	No	n/a	Not Required	n/a
Monarch butterfly (Proposed) <sup>3</sup>	Unknown	n/a	n/a	n/a
Eastern Hellbender (Proposed) <sup>3</sup>	Unknown	n/a	n/a	n/a
<p>1 IPaC – Information for Planning and Consultation (US Fish and Wildlife Service)</p> <p>2 Similarity of Appearance (Threatened); A species that is threatened due to similarity of appearance with another listed species and is listed for its protection.</p> <p>3 Due to the recent listings of monarch butterfly within the proposed action area, NCDOT does not have complete information at this time. It is anticipated that construction will be complete by the timeframes proposed for full listing, should the species be formally listed.</p>				

#### Historic Resources Summary (documentation included)

106 Topic	Findings	
Historic Architecture	No Historic Properties Present	
Archaeology	No Surveys Required	
Tribal Coordination	Tribe	Response
Tribal Coordination Letters were sent to the following Tribes on January 6, 2025:	Catawba Indian Nation	<i>No response received</i>
	Cherokee Nation	<i>No response received</i>
	Eastern Band of Cherokee Indians	<i>No response received</i>
	Muscogee (Creek) Nation	<i>No response received</i>
	United Keetoowah Band of Cherokee Indians in Oklahoma	<i>No response received</i>

If you have any questions or need additional information, please contact Michael Turchy, at [maturchy@ncdot.gov](mailto:maturchy@ncdot.gov) or (919) 707-6157.

Sincerely,

Digitally  
signed by  
 Michael  
Turchy

Michael A. Turchy  
Environmental Coordination and Permitting Group Leader



ePQN

# Permit Drawings



North Carolina Department of Transportation  
Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN  
FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element:		TIP/Proj No: 18314.1045039		County(ies): Henderson		Page 1 of 2		
General Project Information								
WBS Element:		TIP Number: 18314.1045039		Project Type: Other		Date: 0710/2025		
NCDOT Contact:		Nathan Tanner, PE		Contractor / Designer:		Davin Morrison, PE		
	Address:		NCDOT Highway Division 14 253 Webster Road Sylva, NC 28779		Address:		440 South Church Street Suite 1200 Charlotte, NC 28202-2075	
	Phone:		828 331-5213		Phone:		980 337-5181	
	Email:		nrtanner@ncdot.gov		Email:		davin.morrison@hdrinc.com	
City/Town:		Gerton & Bat Cave		County(ies):		Henderson		
River Basin(s):		Broad		CAMA County?		No		
Wetlands within Project Limits?		No						
Project Description								
Project Length (lin. miles or feet):		2.17		Surrounding Land Use: Forested, Low Density Residential, Commercial, and Transportation				
		Proposed Project		Existing Site				
Project Built-Upon Area (ac.):		6.9 ac.		6.5 ac.				
Typical Cross Section Description:		Maintain existing two lane highway with 10' wide travel lanes, shoulders, and roadside ditches where Hurricane Helene storm damage to the roadway was minimal or did not occur. Where damage has occurred, roadway will be reconstructed with two 11' wide travel lanes, 3' wide shoulders (6' wide with guardrail), expressway gutter, and roadside ditches.		Pre-Hurricane Helene, US 74A was a two lane highway with 10' wide travel lanes with narrow shoulders and roadside ditches. Post-Hurricane Helene, the road was heavily damaged at several locations.				
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 3000		Year: 2040		Existing: 1500		
General Project Narrative: (Description of Minimization of Water Quality Impacts)		This SMP is for Work Package 3 from Bearwallow Mountain Road to Grant Mountain Road. A separate SMP will be submitted for Work Package 4 from Grant Mountain Road to NC 9. Retaining walls and/or 1.25:1 grouted rip rap embankments will be used to repair severely damaged roadway fill slopes adjacent to Hickory Nut Creek. The stream will be relocated to its pre-storm location where needed to protect the roadway. Stream impacts will be kept to a minimum by only relocating the stream where needed, installing retaining walls to keep fill slopes out of the stream, and armoring the roadway embankment with a 1.25:1 grouted rip rap to reduce the impacts that may be caused by a standard 2:1 fill slope. Rip rap aprons and standard base ditches will be used to capture flow from culverts that pass under the roadway to help reduce outlet velocities and erosion.						



## North Carolina Department of Transportation

Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN  
FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

WBS Element: TIP/Proj No.: 18314.1045039 County(ies): Henderson Page 2 of 2

## General Project Information

## Waterbody Information

Surface Water Body (1):	Hickory Nut Creek	NCDWR Stream Index No.:	9-14
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:	Trout Waters (Tr)	
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?	Comments:		
NRTR Stream ID:		Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)			

Surface Water Body (2):	UT to Hickory	NCDWR Stream Index No.:	9-14
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:	Trout Waters (Tr)	
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?	Comments:		
NRTR Stream ID:		Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A
Deck Drains Discharge Over Water Body?	No	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)			

Surface Water Body (3):		NCDWR Stream Index No.:	
NCDWR Surface Water Classification for Water Body	Primary Classification:		
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?	Comments:		
NRTR Stream ID:		Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)			

PLOT DRIVER: Hydro\_color\_levels.onpifc  
USER: GJACOBSON  
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PENTABLE: NCDOT\_TSH.tbl  
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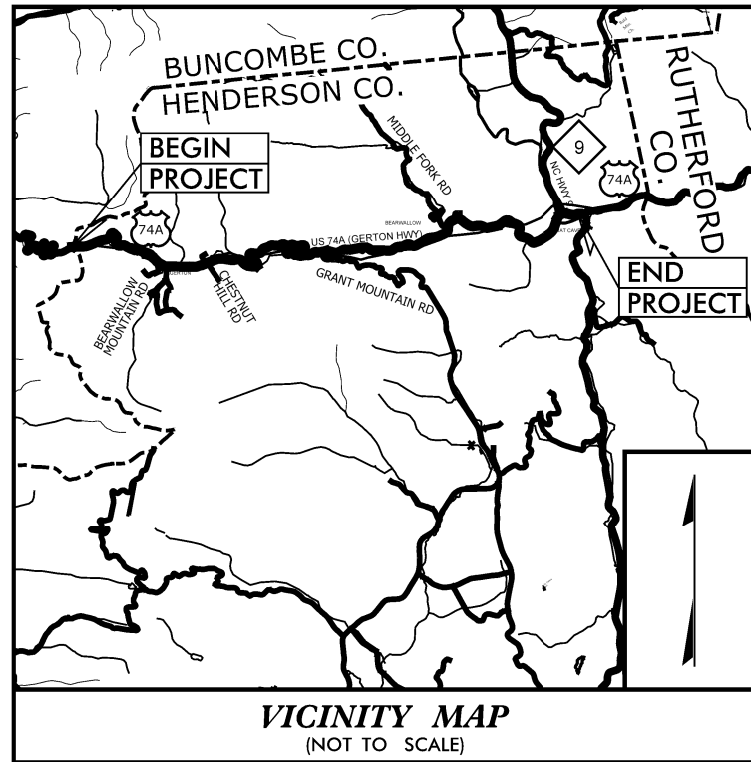
CONTRACT:

TIP PROJECT: 18314.1045039

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PERMIT DRAWING  
SHEET 1 OF 24

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18314.1045039	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
----	N/A	P.E.	
----	N/A	ROW	



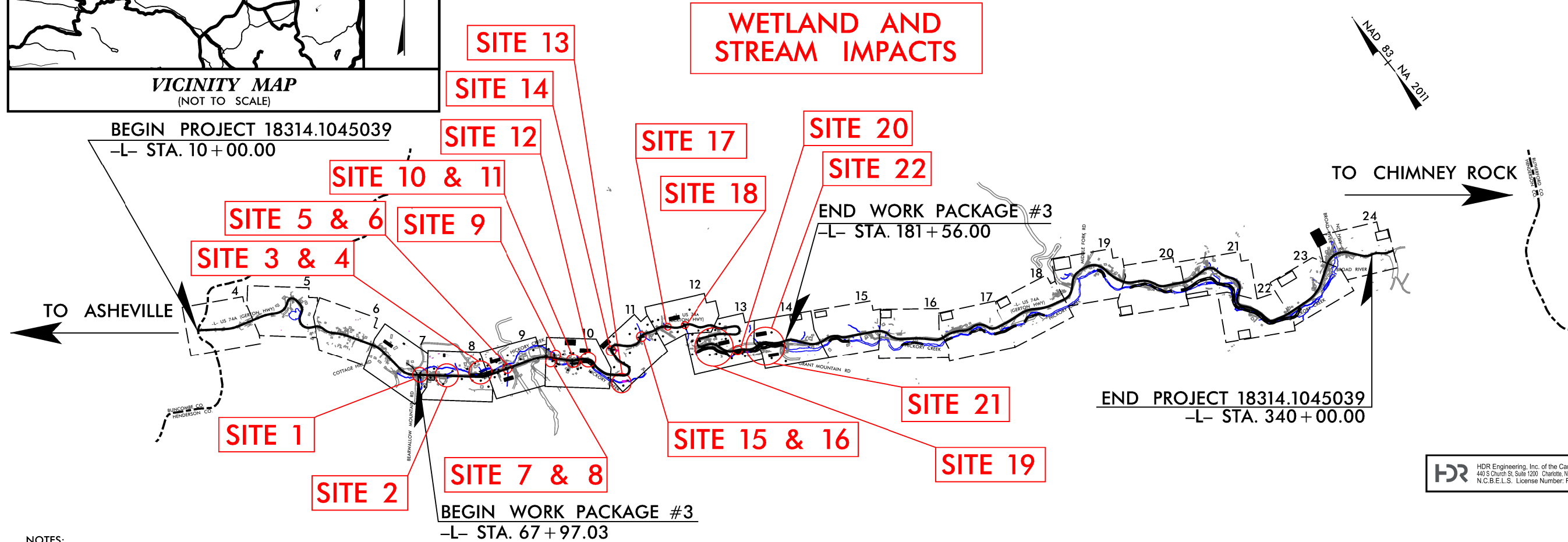
VICINITY MAP  
(NOT TO SCALE)

HENDERSON COUNTY

LOCATION: GERTON HWY (U.S. HWY 74A) FROM WEST OF  
BEARWALLOW MOUNTAIN RD TO CHIMNEY  
ROCK ROAD (U.S. HWY 64)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURES

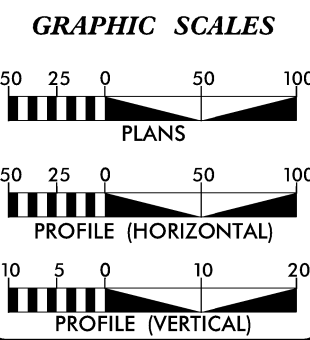
WORK PACKAGE #3: BEARWALLOW MOUNTAIN ROAD TO GRANT  
MOUNTAIN ROAD



NOTES:  
1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.  
2. THIS IS A NO CONTROL OF ACCESS PROJECT.


HDR Engineering, Inc. of the Carolinas  
440 S Church St, Suite 1200 Charlotte, NC 28202  
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA	
2017	= 1,500
ADT 2040	= 3,000
T	= 8 %
V	= 40 MPH
FUNC CLASS = MINOR ARTERIAL	

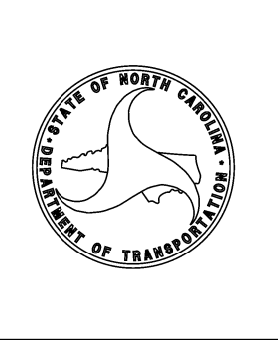
PROJECT LENGTH	
LENGTH ROADWAY WORK PACKAGE #3	= 2.167 MILES
TOTAL LENGTH TIP PROJECT US-74A	= 6.250 MILES



Prepared In the Office of:  
HDR Engineering, Inc. of the Carolinas  
440 S Church St, Suite 1200 Charlotte, NC 28202  
N.C.B.E.L.S. License Number: F-0116

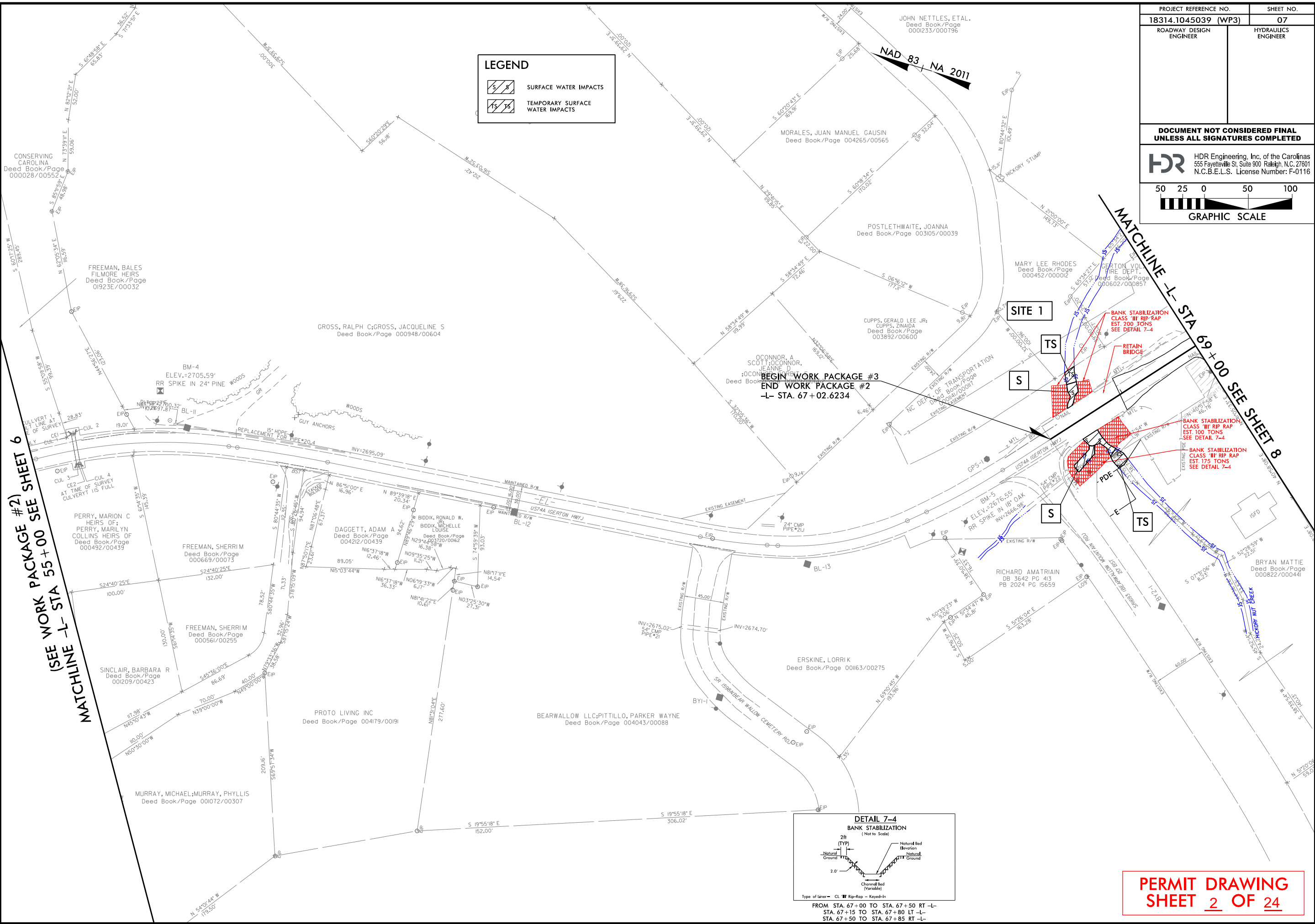
2024 STANDARD SPECIFICATIONS	PHILLIP E. ROGERS, PE PROJECT ENGINEER
RIGHT OF WAY DATE:	MATTHEW J. WERDER, PE PROJECT DESIGN ENGINEER
LETTING DATE:	NATHAN R. TANNER, PE NCDOT CONTACT

HYDRAULICS ENGINEER	
SIGNATURE:	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE:	P.E.



REVISIONS

6/2/2019

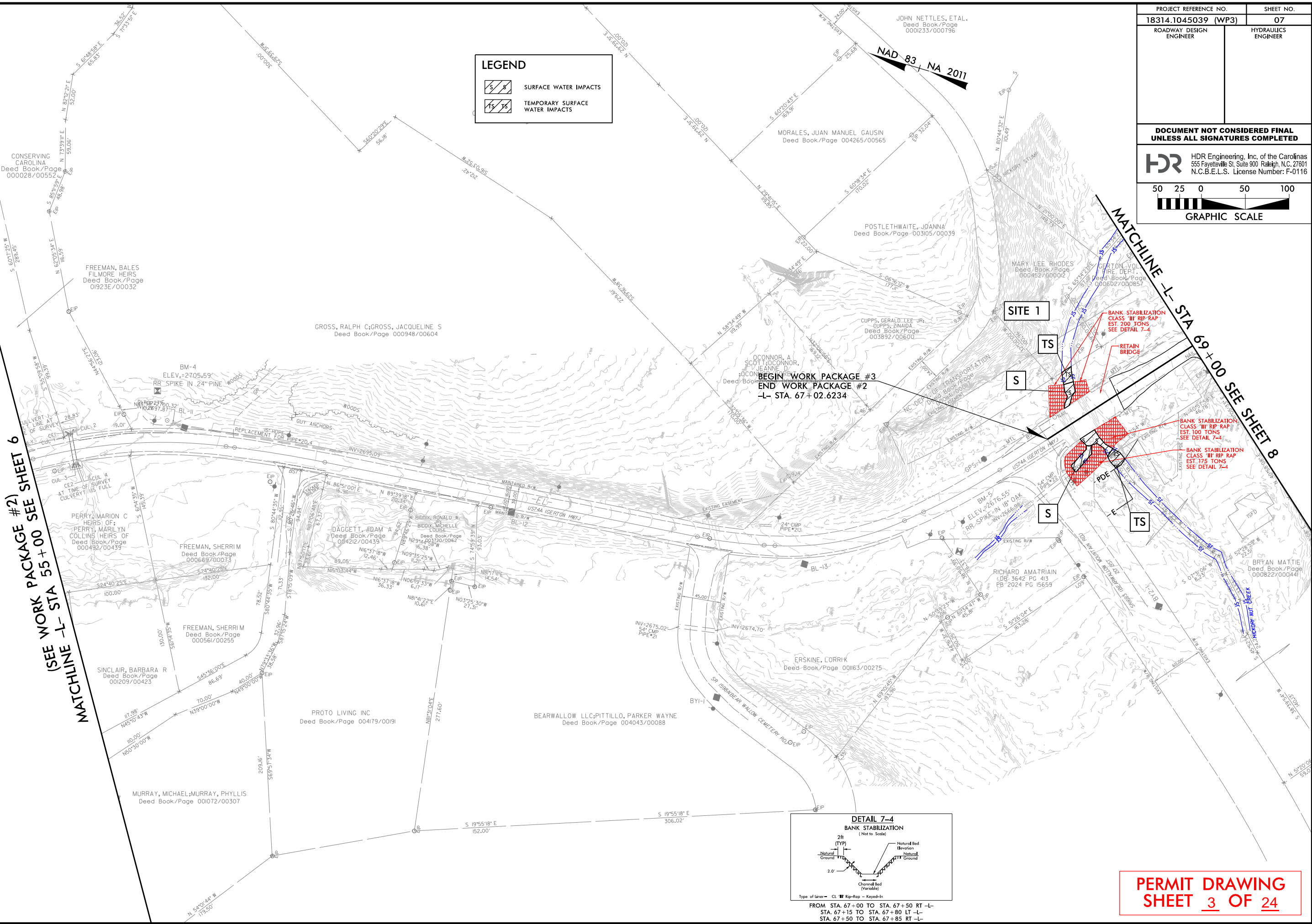




PERMIT DRAWING  
SHEET 2 OF 24

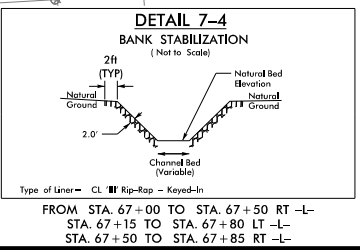


REVISIONS

6/2/2019



PROJECT REFERENCE NO.		SHEET NO.	
18314.1045039 (WP3)		07	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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 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			
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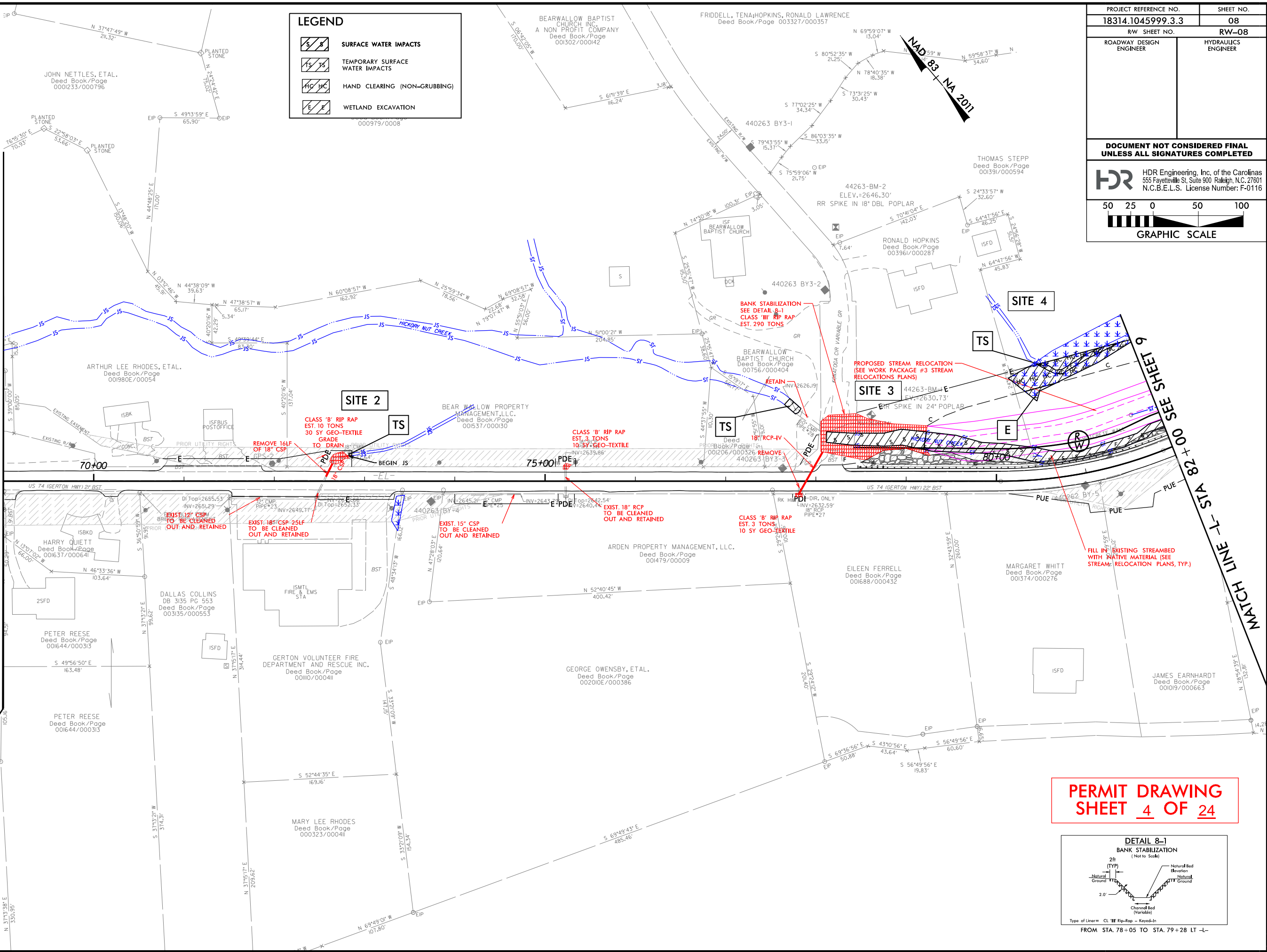


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**SHEET 3 OF 24**

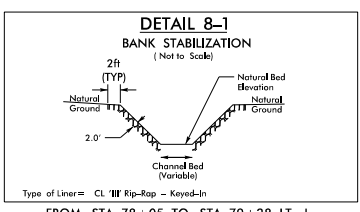
REVISIONS

6/2/99

MATCH LINE -L- STA 69+00 SEE SHEET 7



PERMIT DRAWING  
SHEET 4 OF 24

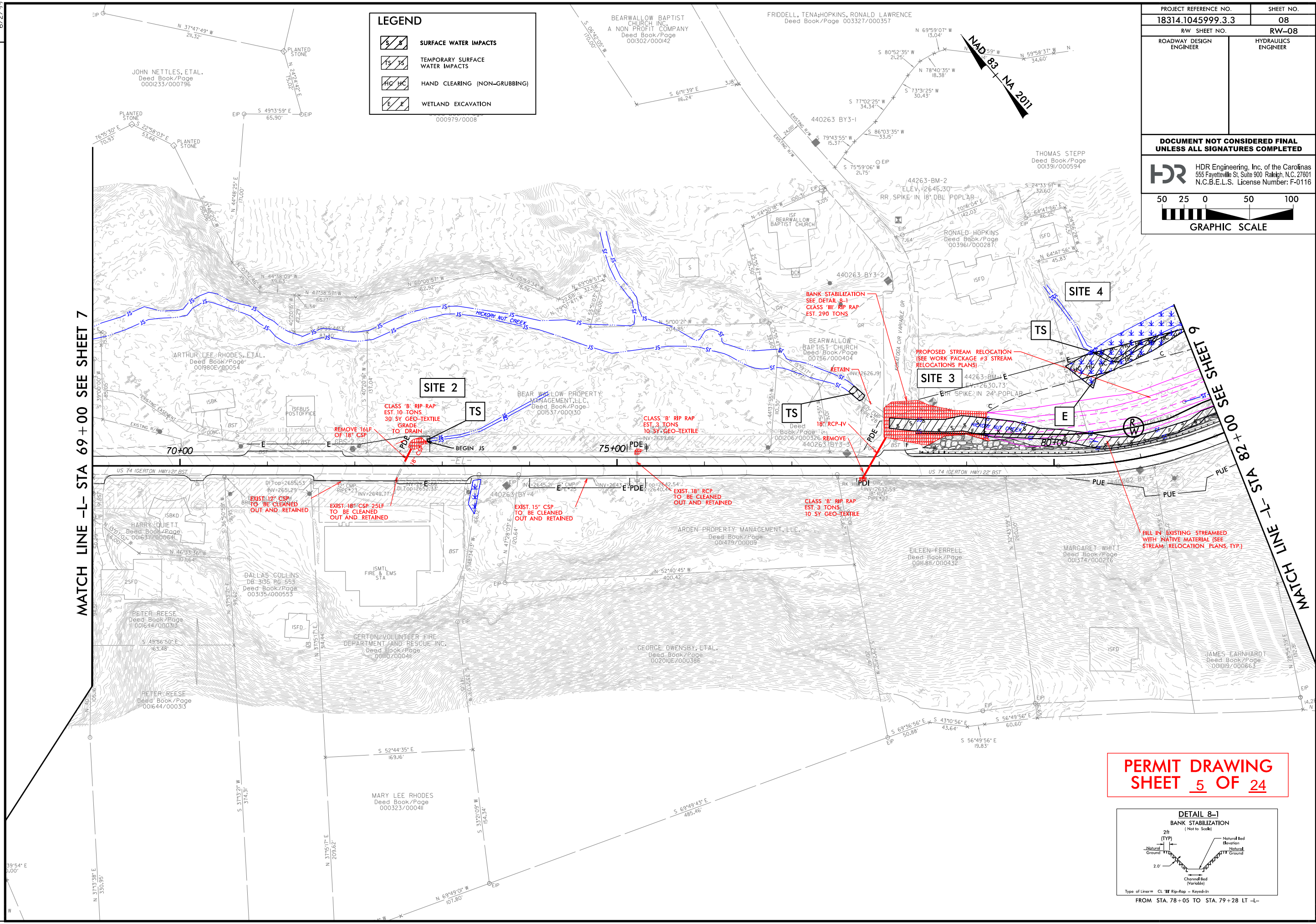




REVISIONS

6/2/2019

MATCH LINE -L- STA 69+00 SEE SHEET 7

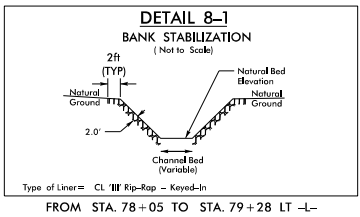


**LEGEND**

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

PROJECT REFERENCE NO. <b>18314.1045999.3.3</b>		SHEET NO. <b>08</b>	
RW SHEET NO. <b>RW-08</b>		ROADWAY DESIGN ENGINEER <b>HYDRAULICS ENGINEER</b>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
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			
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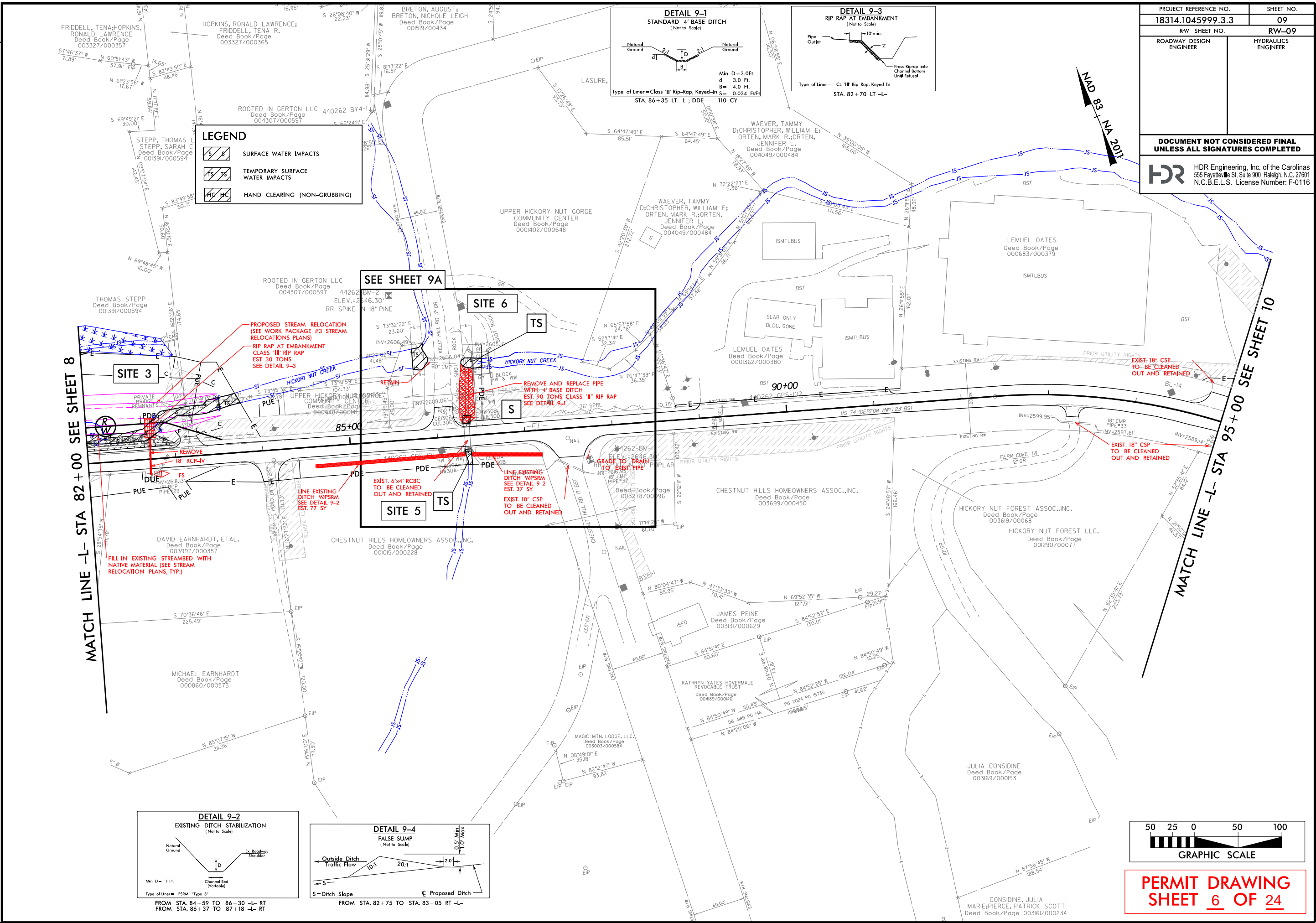
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SHEET 5 OF 24**



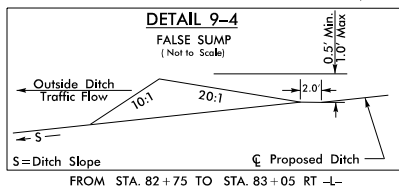
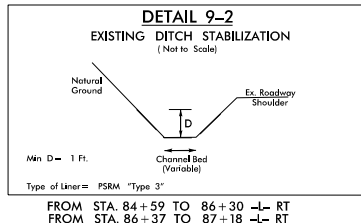


REVISIONS

6/2/2026



PROJECT REFERENCE NO. <b>18314.1045999.3.3</b>		SHEET NO. <b>09</b>	
RW SHEET NO. <b>RW-09</b>		ROADWAY DESIGN ENGINEER <b>HYDRAULICS ENGINEER</b>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
<b>HDR</b> 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			

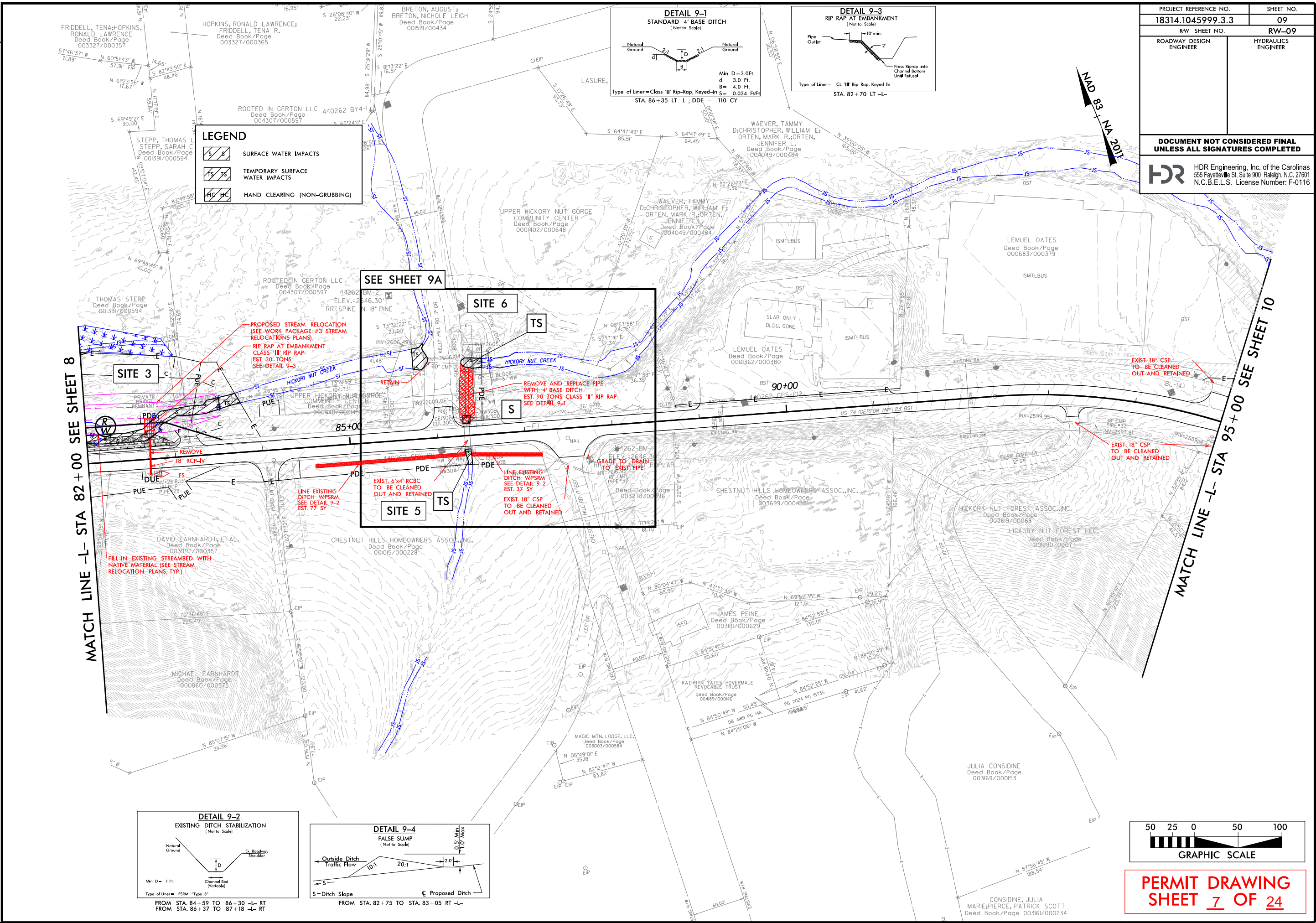


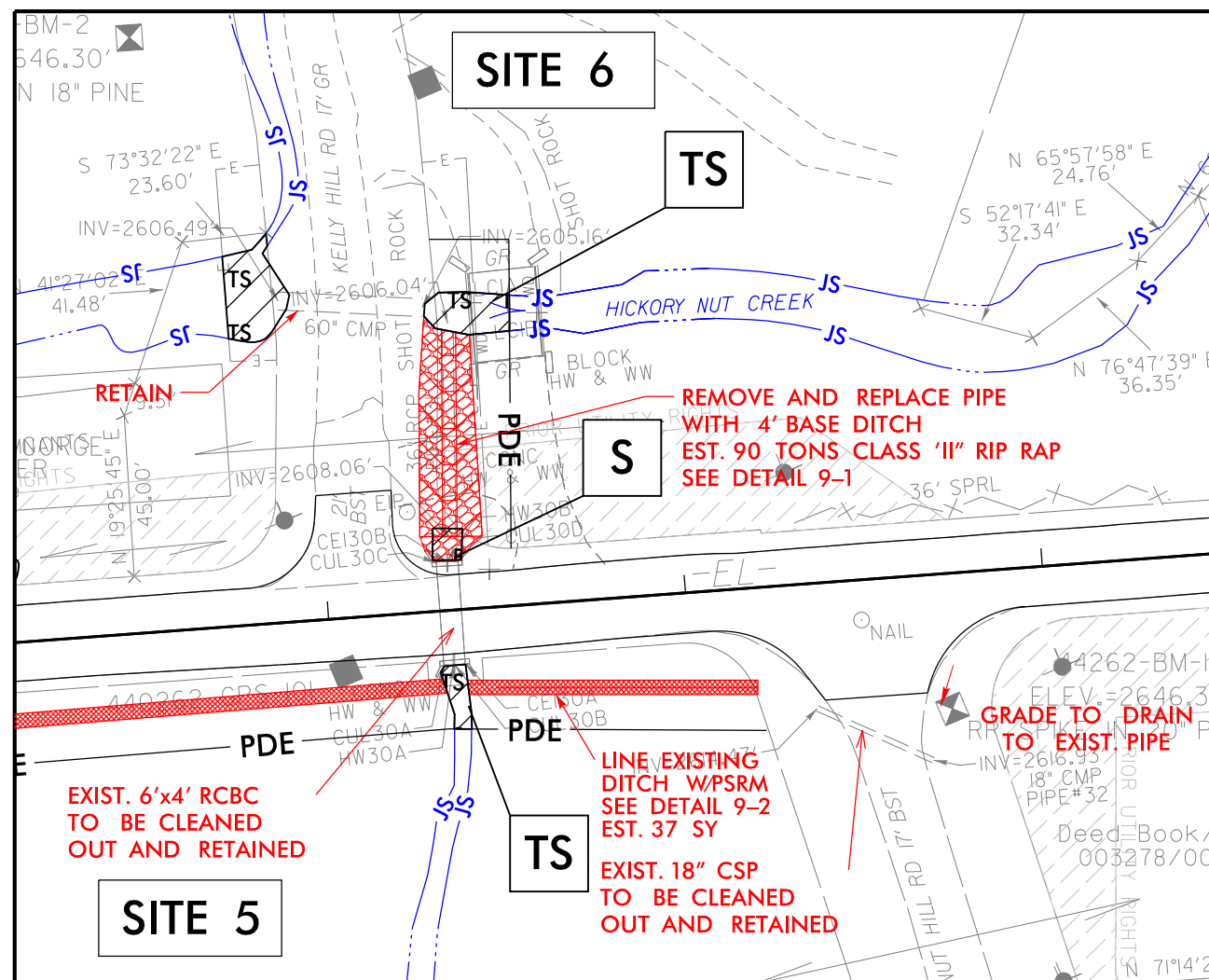
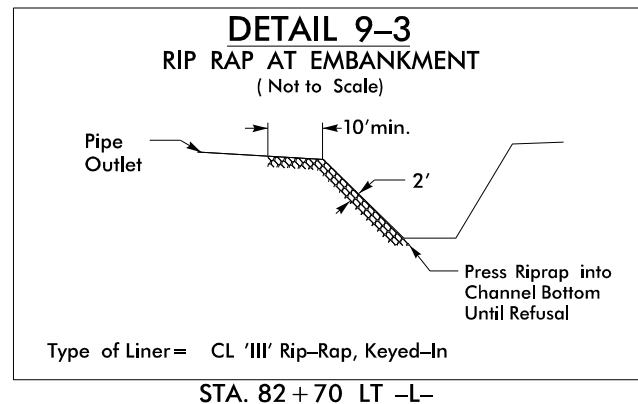
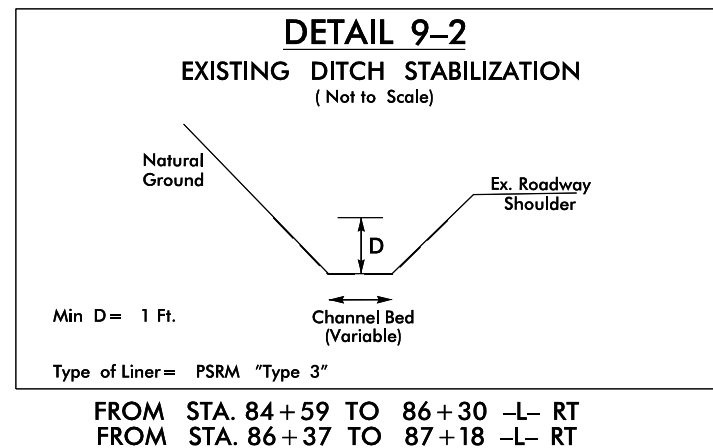
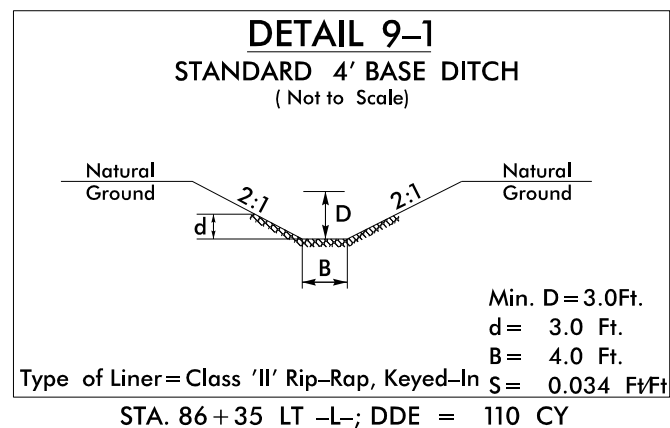
**PERMIT DRAWING  
SHEET 6 OF 24**



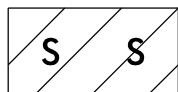
REVISIONS

6/2/2026





## LEGEND





## SURFACE WATER IMPACTS



## TEMPORARY SURFACE WATER IMPACTS



PROJECT REFERENCE NO.		SHEET NO.	
18314.1045039 (WP3)		09A	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>			
		HDR Engineering, Inc. of the Carolina 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-011	
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>25</span> <span>12.5</span> <span>0</span> <span>25</span> <span>50</span> </div>  <p style="text-align: center;"><b>GRAPHIC SCALE</b></p>			

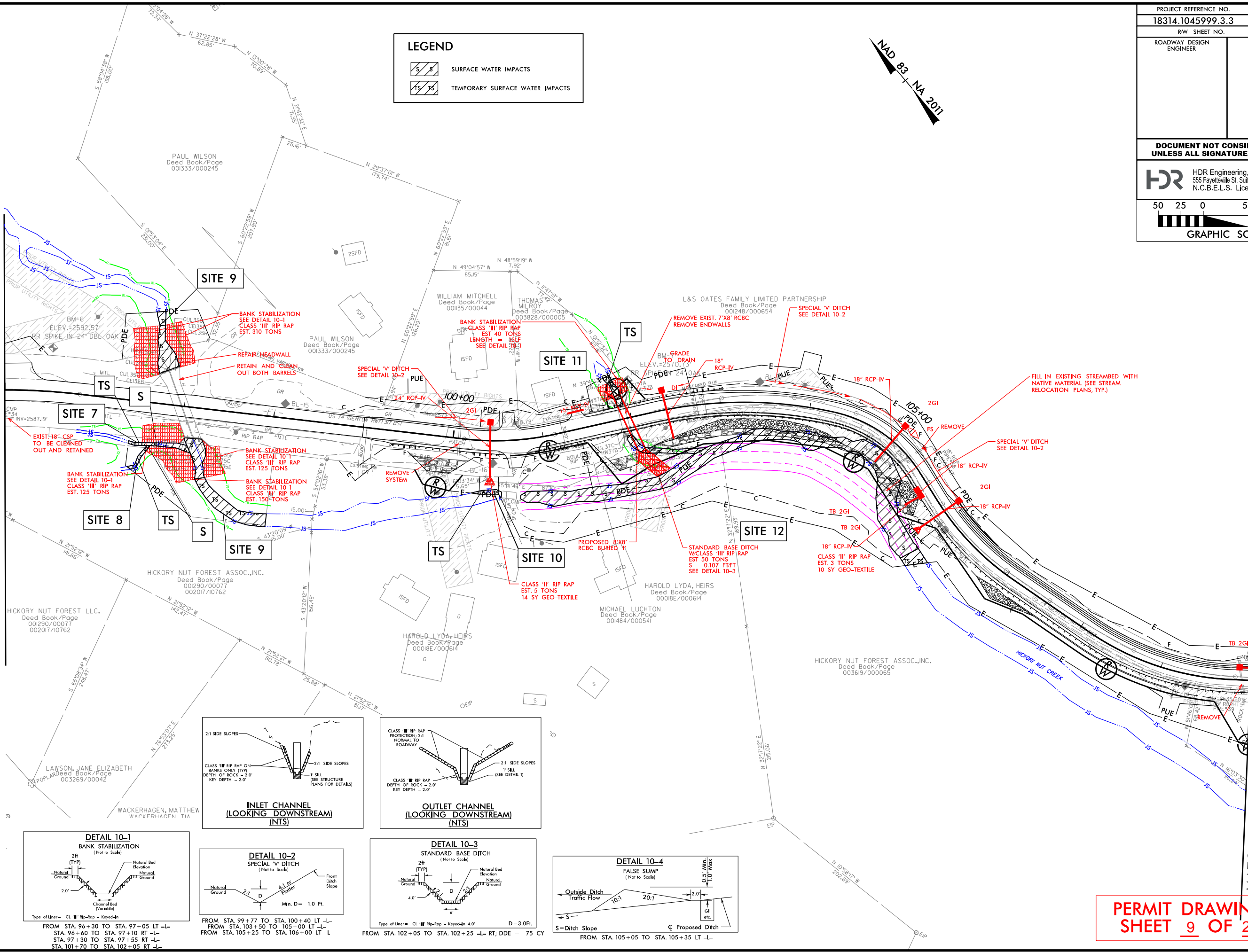
PERMIT DRAWING  
SHEET 8 OF 24



REVISIONS

6/2/2019

MATCH LINE -L- STA 95+00 SEE SHEET 9



MATCH LINE -L- STA 110+00 SEE SHEET 11

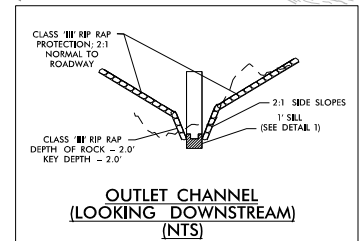
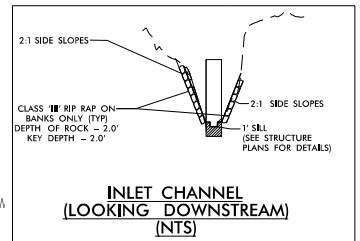
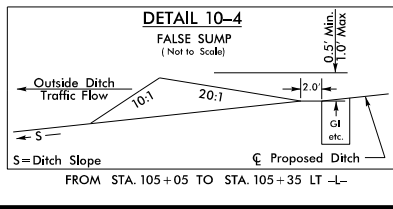
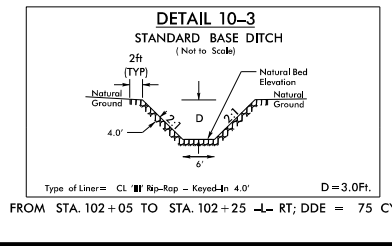
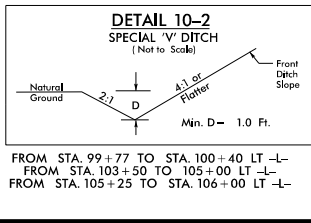
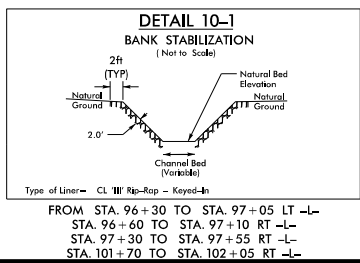
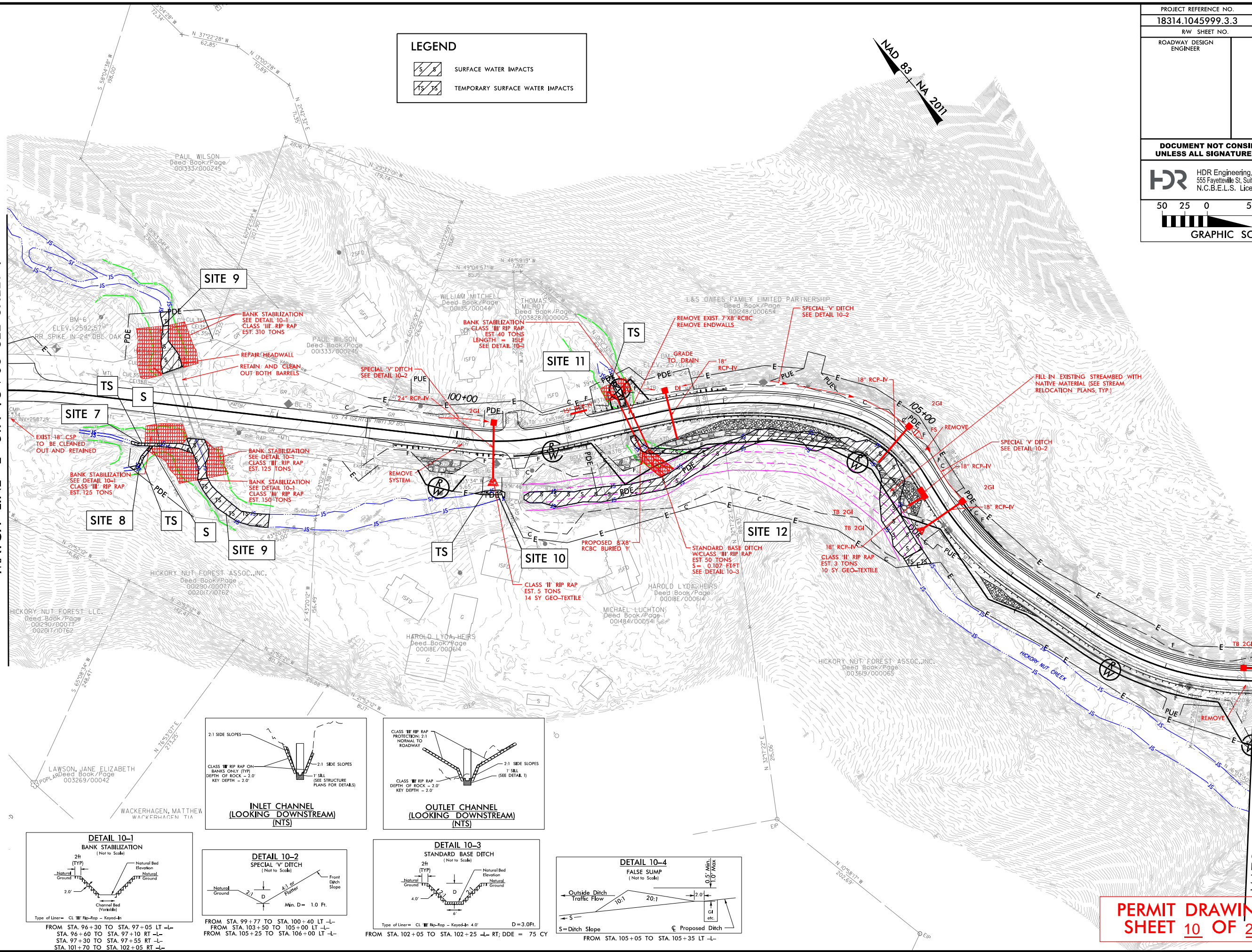
PROJECT REFERENCE NO. <b>18314.1045999.3.3</b>		SHEET NO. <b>10</b>	
R/W SHEET NO. <b>RW-10</b>			
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			
 GRAPHIC SCALE			



REVISIONS

6/2/99

MATCH LINE -L- STA 95+00 SEE SHEET 9



PERMIT DRAWING  
SHEET 10 OF 24

MATCH LINE -L- STA 110+00 SEE SHEET 11

PROJECT REFERENCE NO. <b>18314.1045999.3.3</b>		SHEET NO. <b>10</b>	
R/W SHEET NO. <b>RW-10</b>			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
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 GRAPHIC SCALE			



REVISIONS

5/14/99

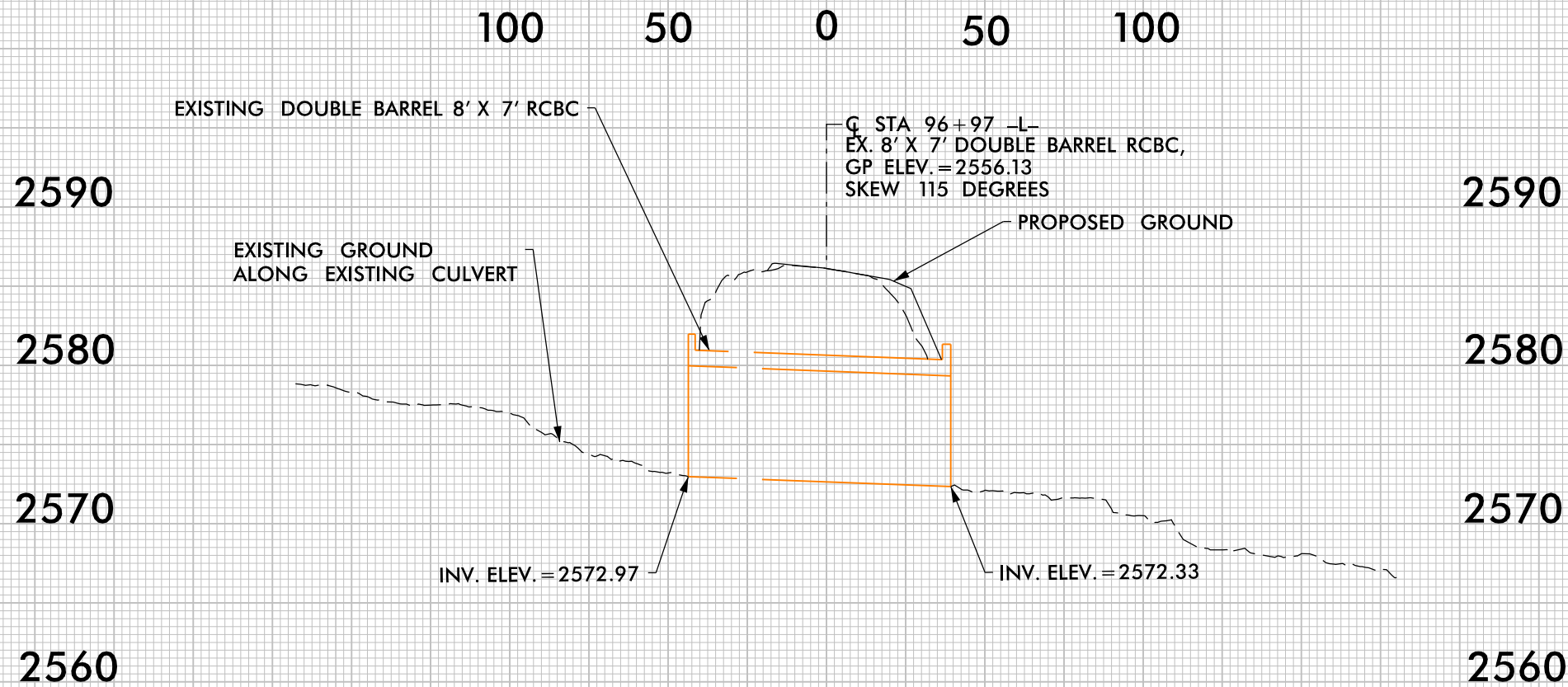


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555 Fayetteville St. Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.		SHEET NO.
18314.1045039 (WP3)		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

SCALE:  
1" = 25' HORIZONTAL  
1" = 5' VERTICAL

SITE 9



PROFILE ALONG  $\bar{C}$  OF CULVERT

PERMIT DRAWING  
SHEET 11 OF 24

REVISIONS

5/14/99

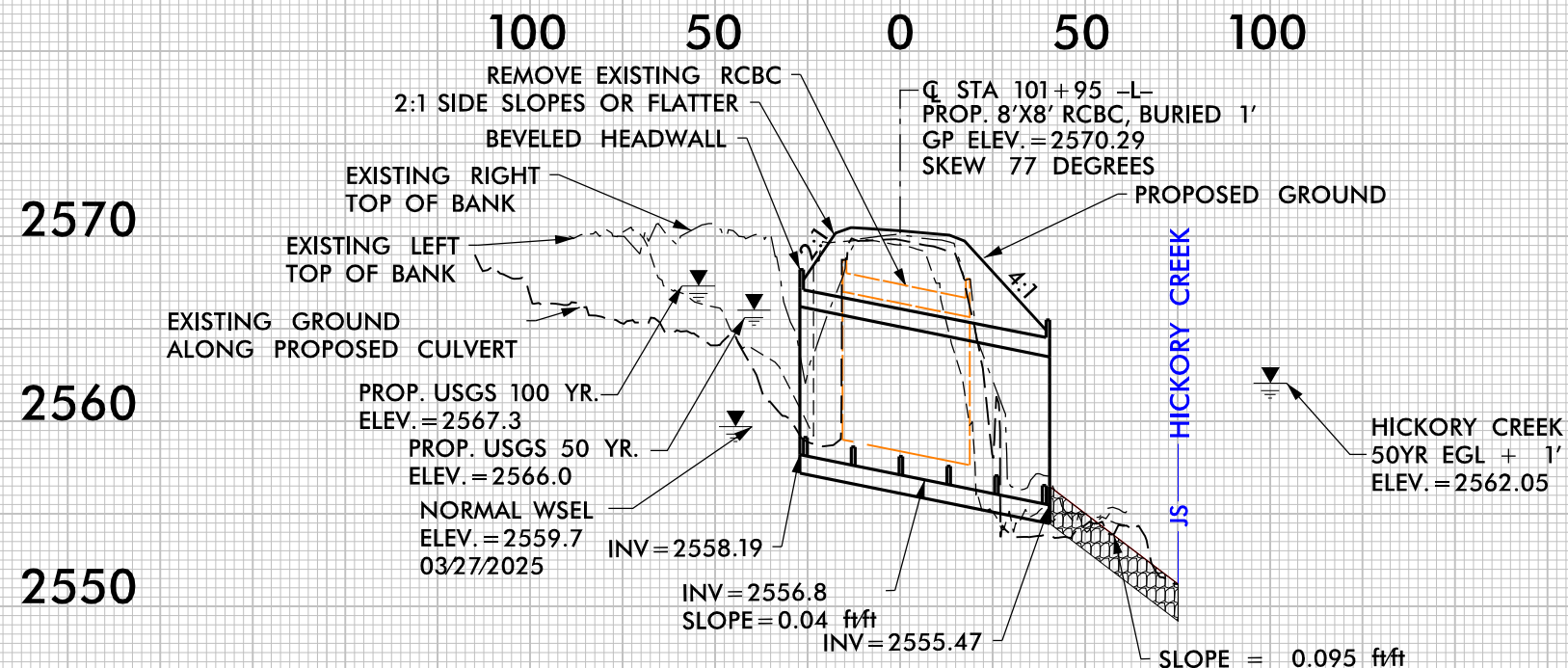


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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.		SHEET NO.
18314.1045039 (WP3)		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

SCALE:  
1" = 25' HORIZONTAL  
1" = 5' VERTICAL

SITE 11

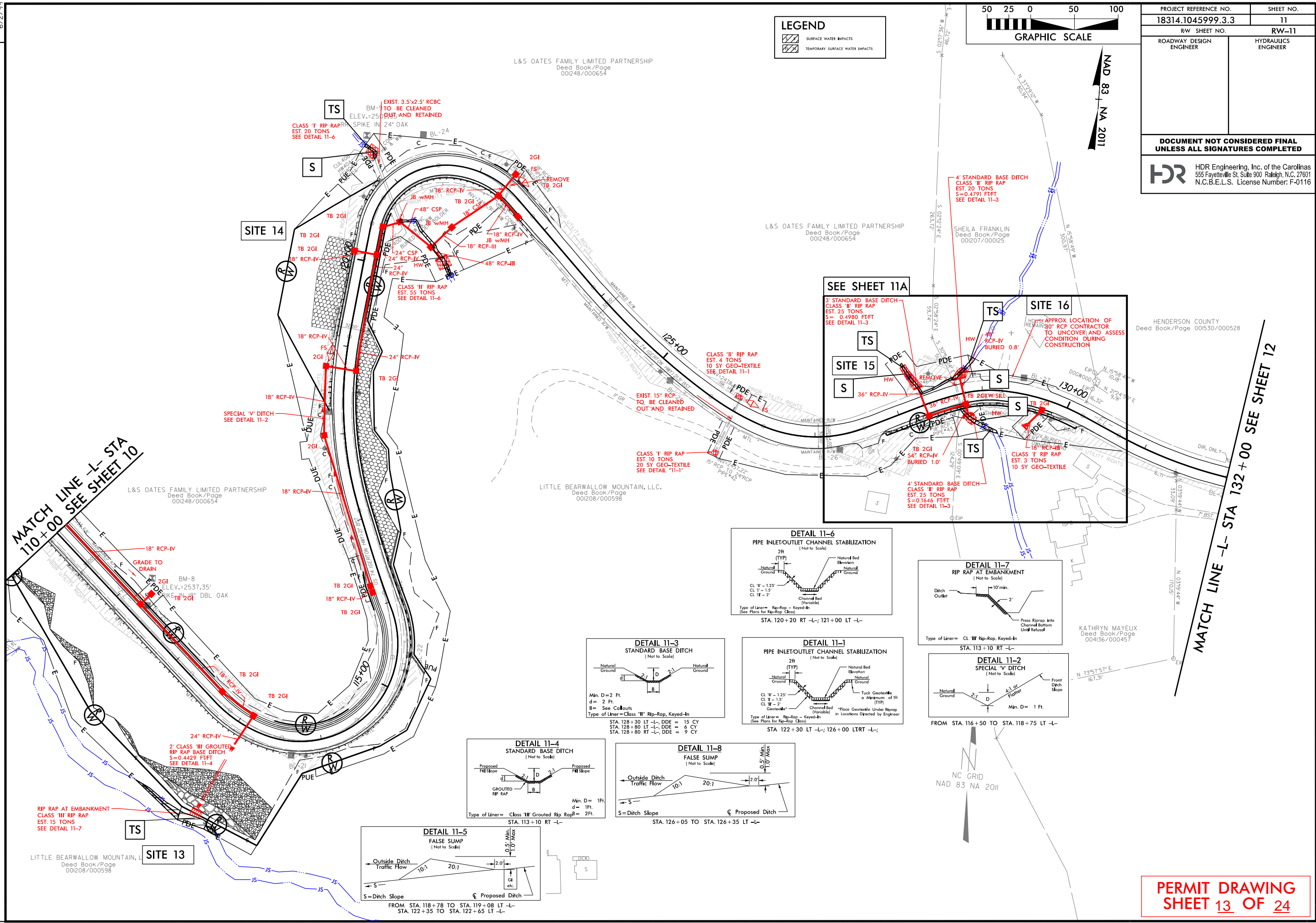


PROFILE ALONG CL OF CULVERT

PERMIT DRAWING  
SHEET 12 OF 24

REVISIONS

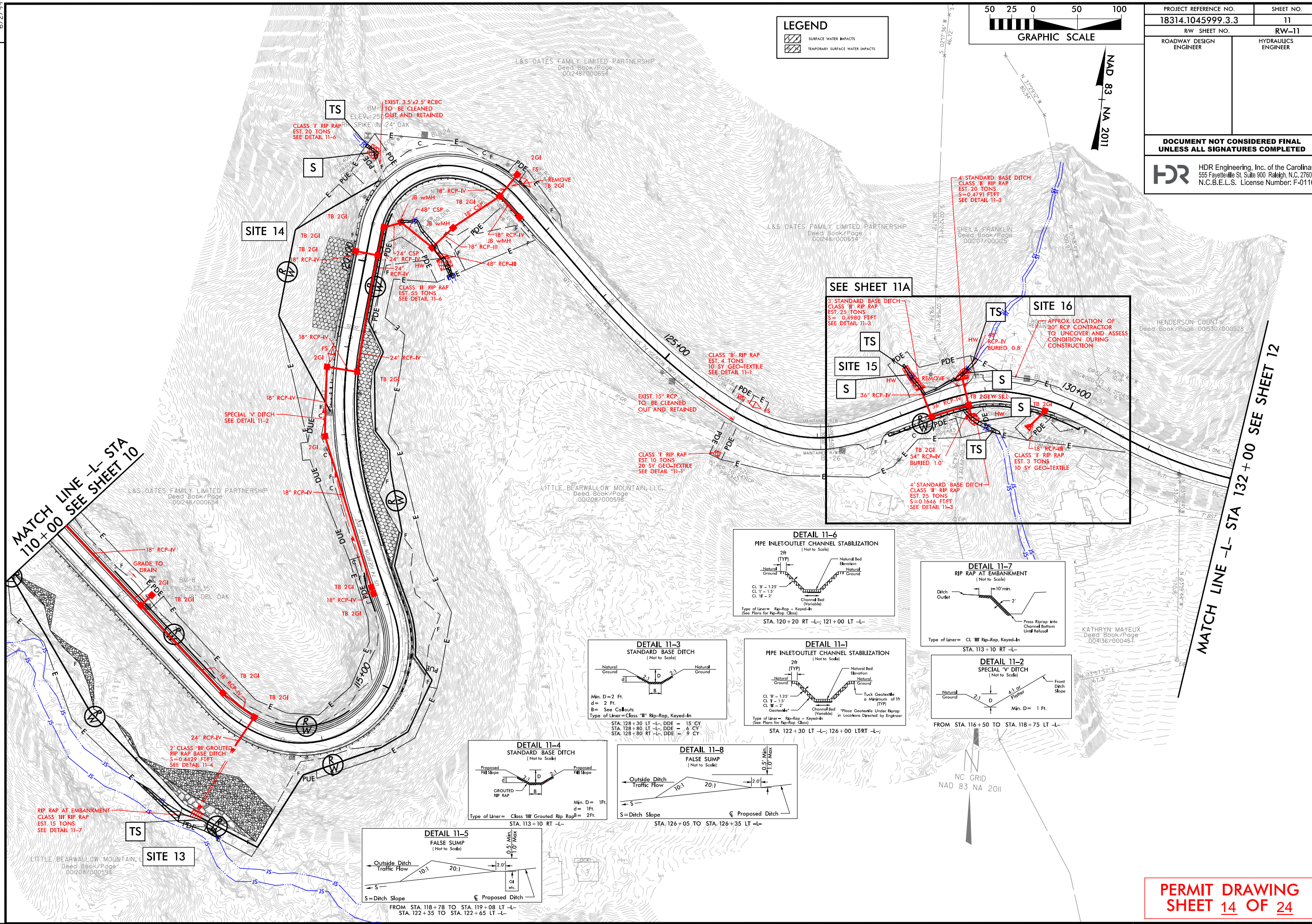
6/2/99





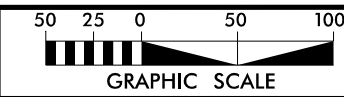
REVISIONS

6/2/99




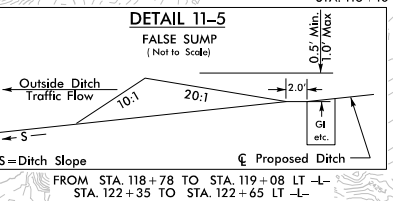
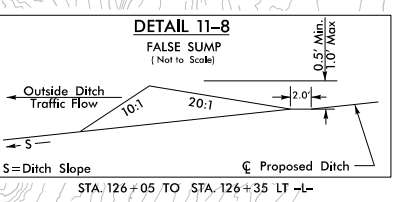
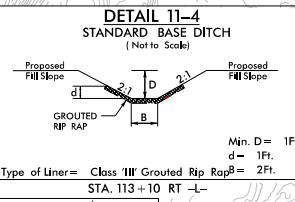
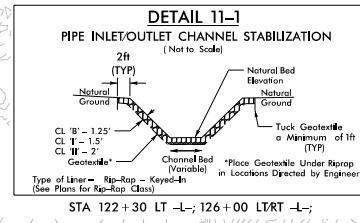
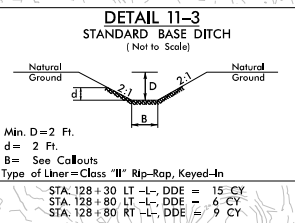
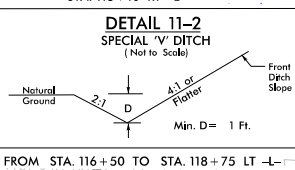
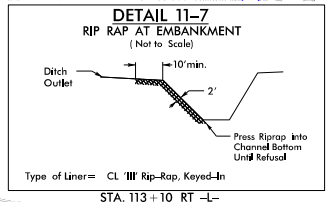
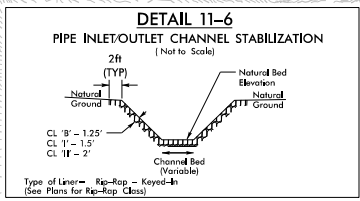
**LEGEND**

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS



NAD 83  
NA 2011

PROJECT REFERENCE NO.		SHEET NO.	
18314.1045999.3.3		11	
RW SHEET NO.		RW-11	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
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PERMIT DRAWING  
SHEET 14 OF 24



# LEGEND



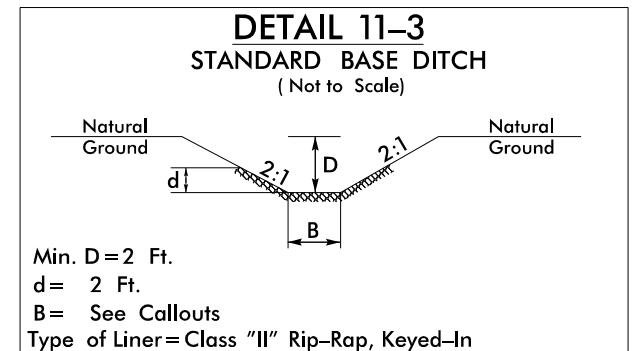
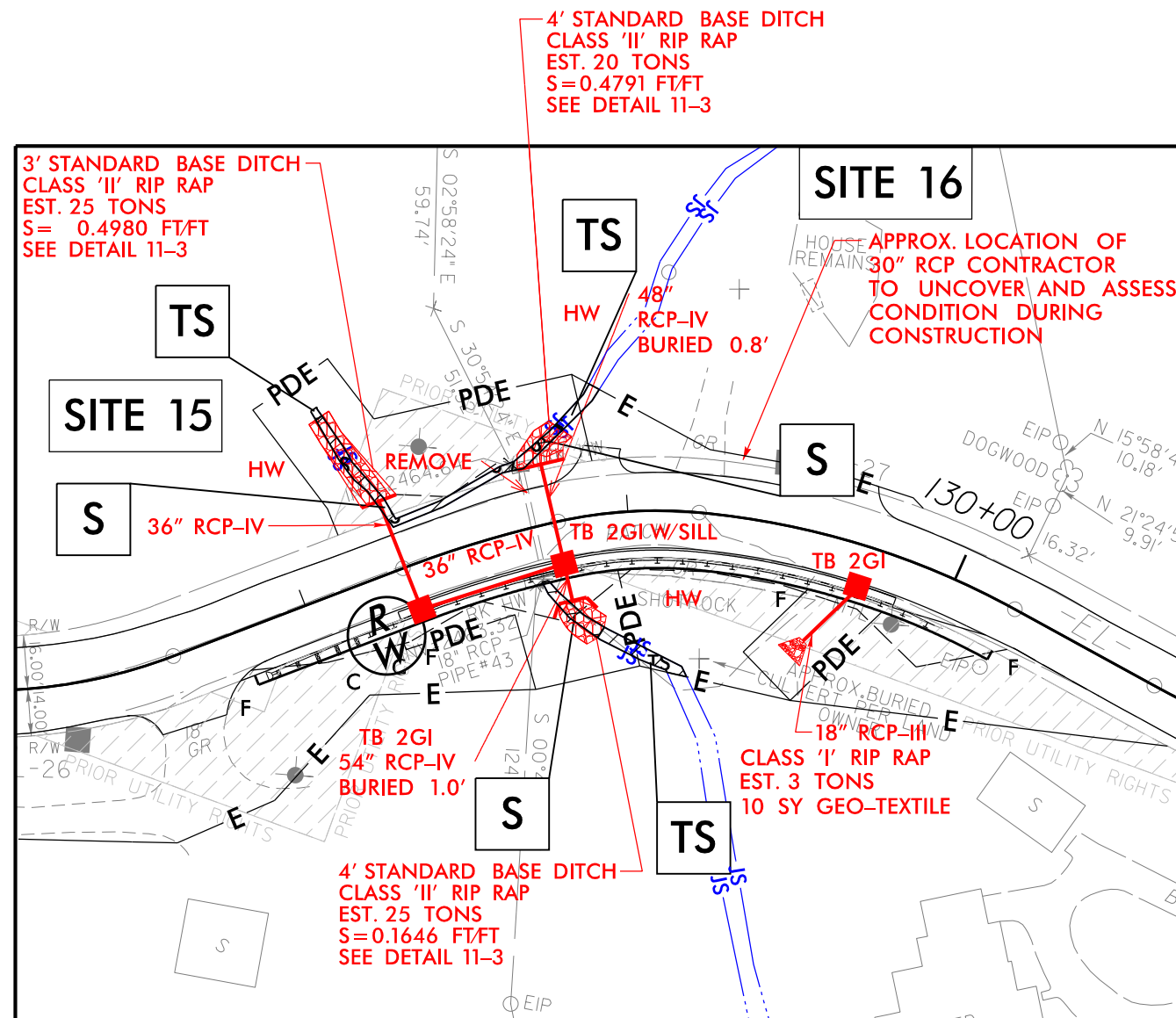
SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS

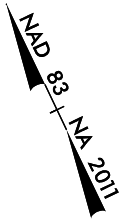
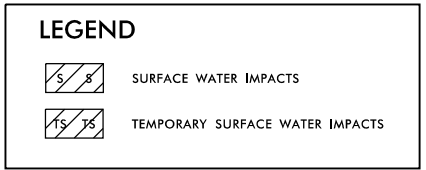
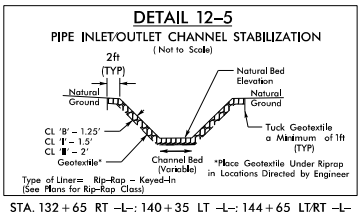
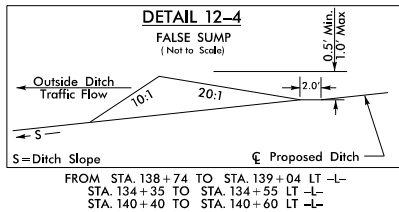
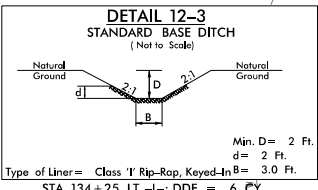
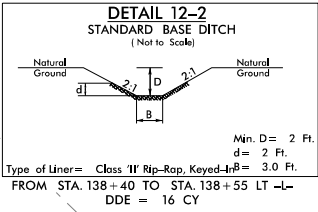
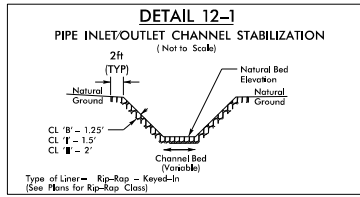
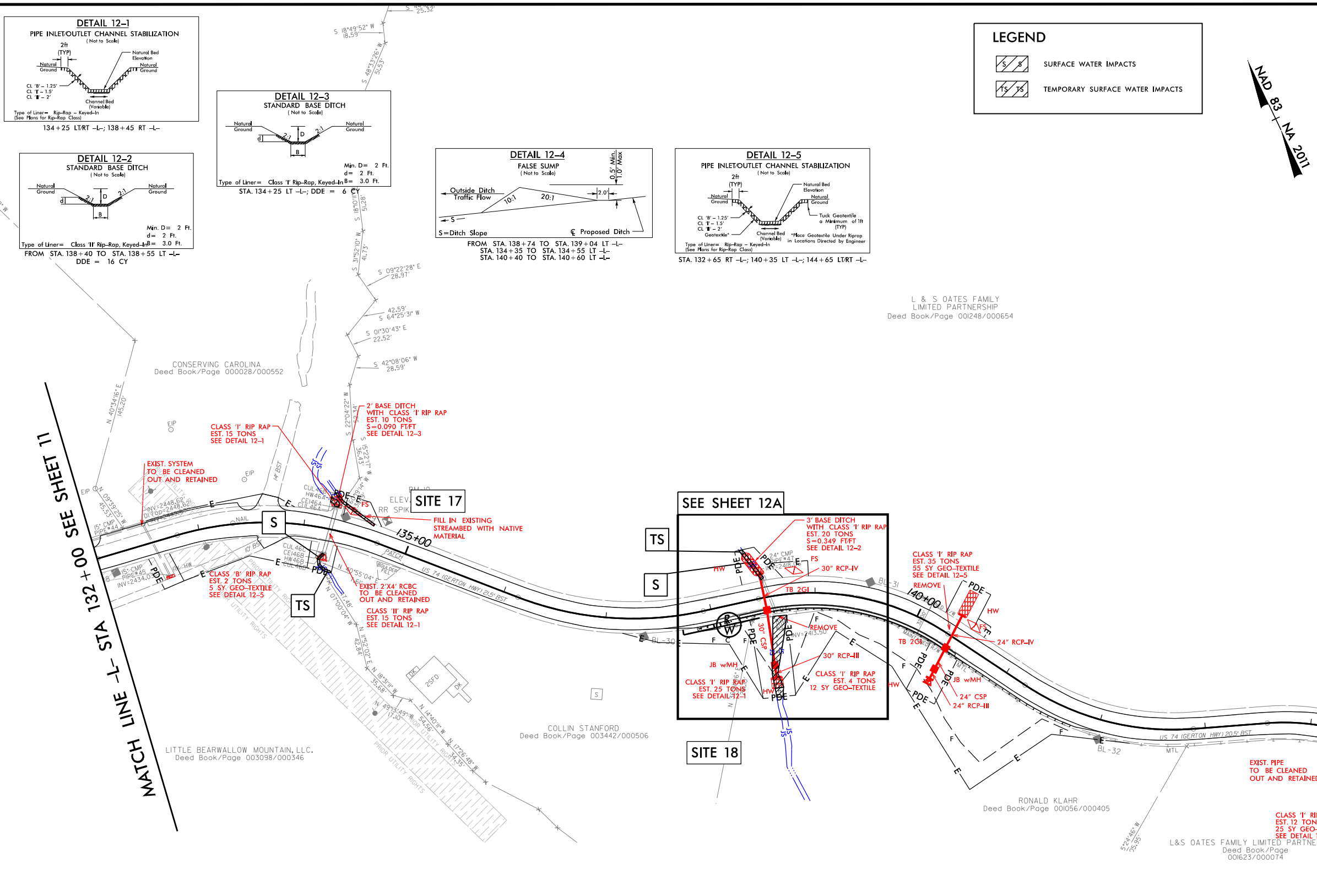


PROJECT REFERENCE NO.		SHEET NO.
18314.1045039 (WP3)		11A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	



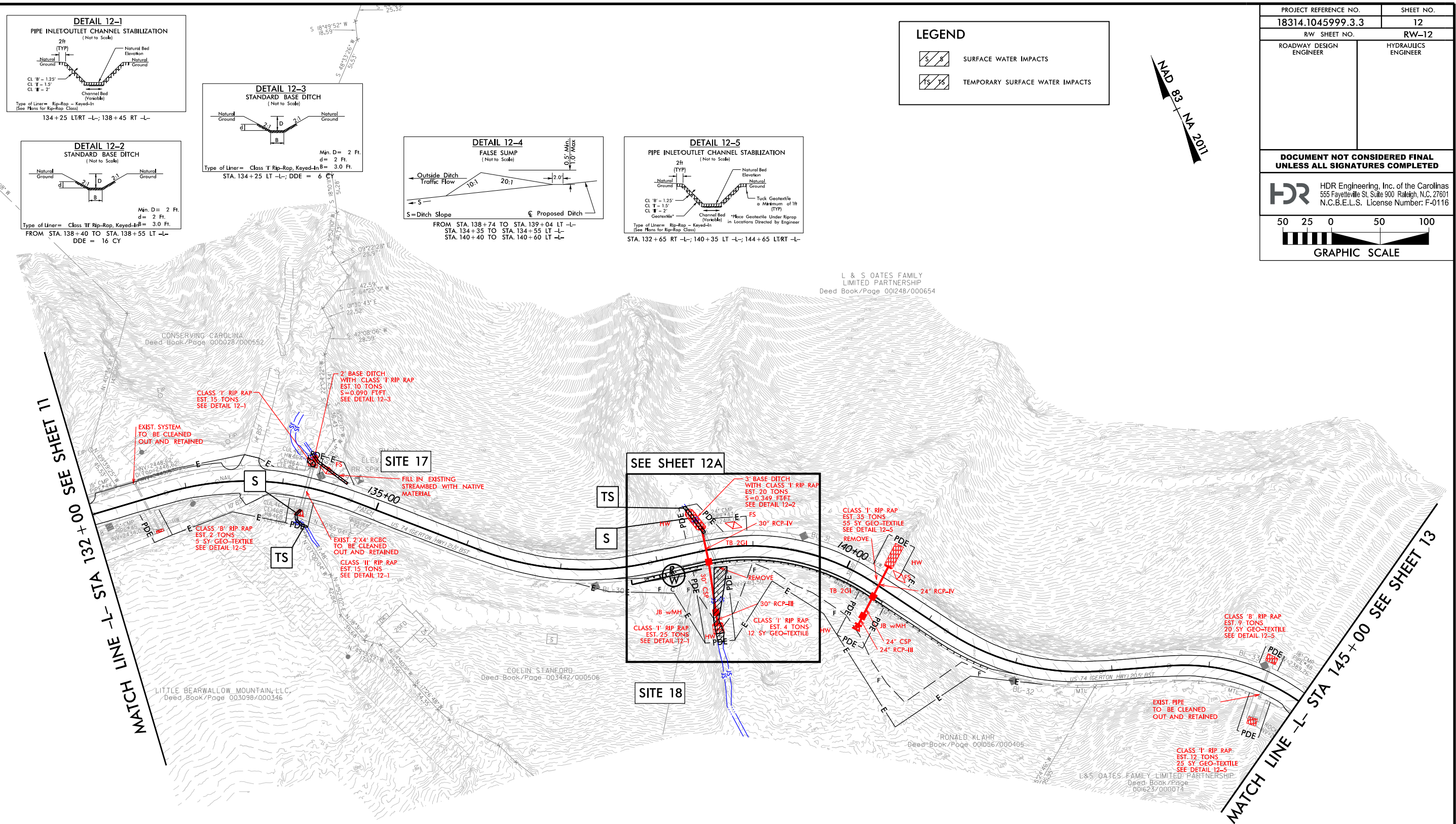
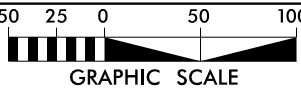
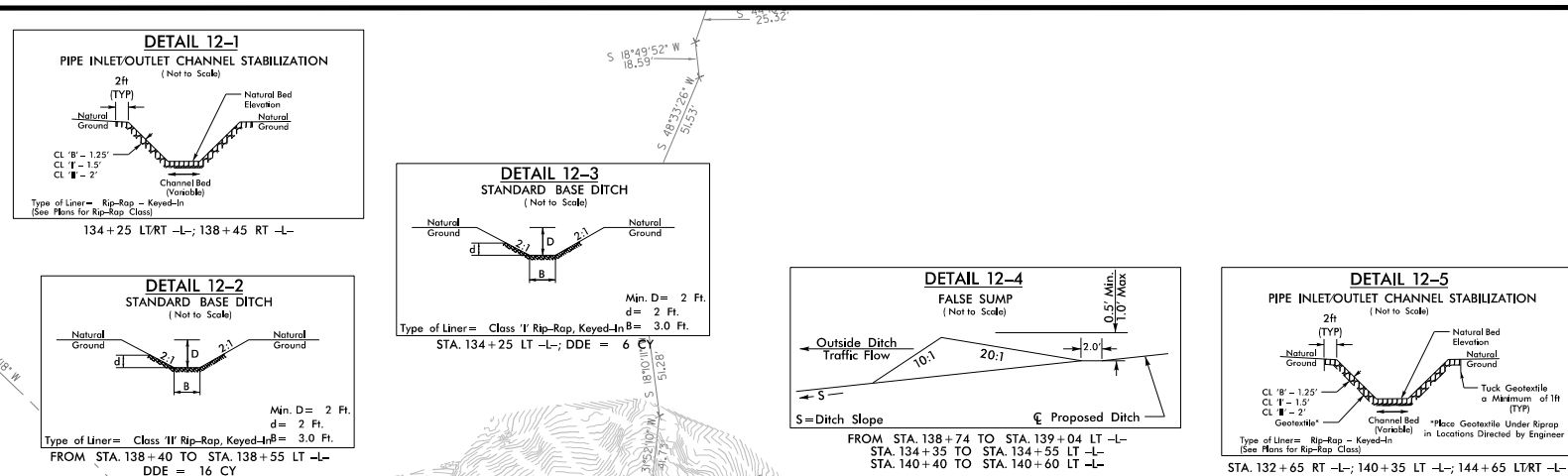
REVISIONS

6/2/99



PROJECT REFERENCE NO.	SHEET NO.
18314.1045999.3.3	12
R/W SHEET NO.	RW-12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
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	
GRAPHIC SCALE	





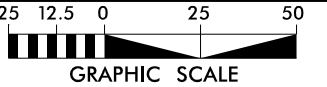
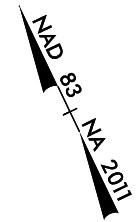
## LEGEND



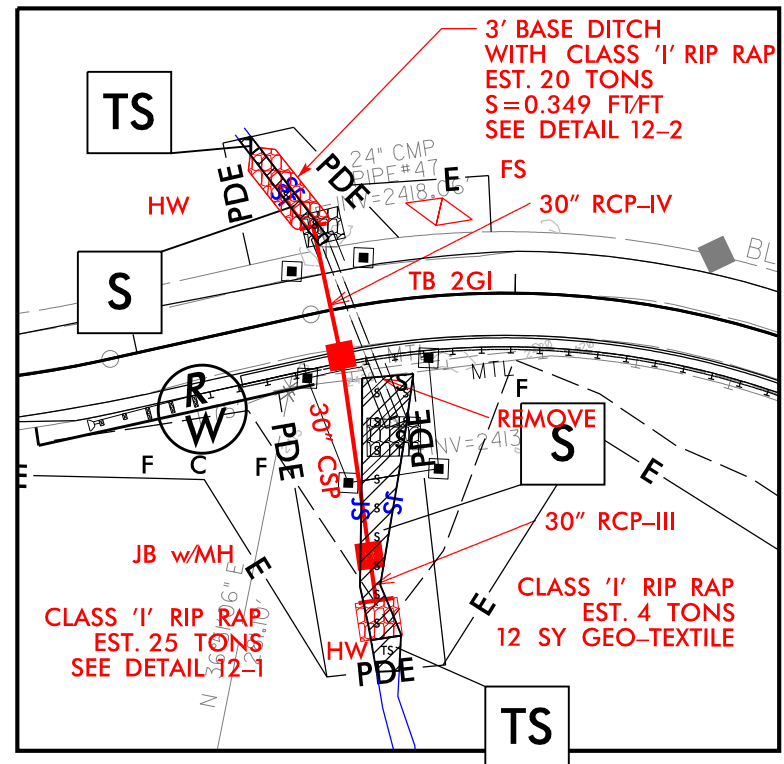
## SURFACE WATER IMPACTS



## TEMPORARY SURFACE WATER IMPACTS



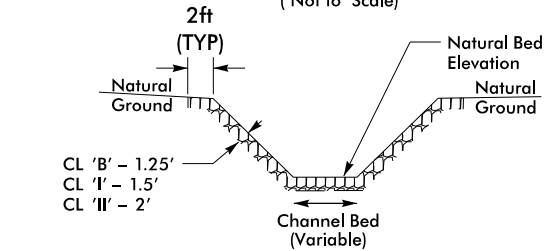
## SITE 18



### DETAIL 12-1

## PIPE INLET/OUTLET CHANNEL STABILIZATION

( Not to Scale)

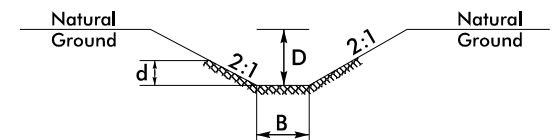


Type of Liner= Rip-Rap - Keyed-In  
(See Plans for Rip-Rap Class)

### DETAIL 12-2

## STANDARD BASE DITCH

( Not to Scale)



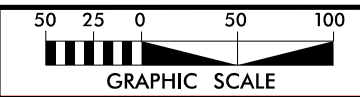
Min. D= 2 Ft.

d= 2 Ft.

Type of Liner= Class 'II' Rip-Rap, Keyed-In<sup>B</sup>= 3.0 Ft.



6/2/99



PERMIT DRAWING  
SHEET 19 OF 24

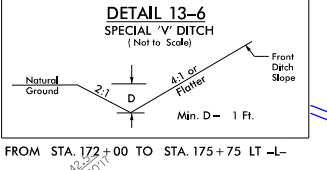
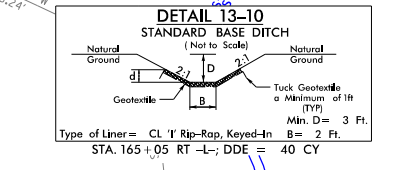
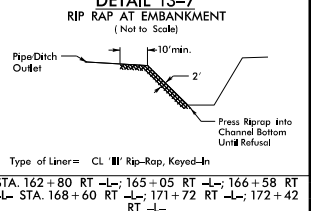
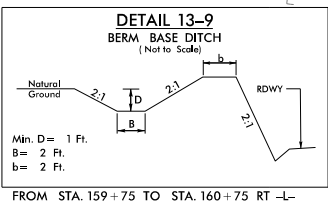
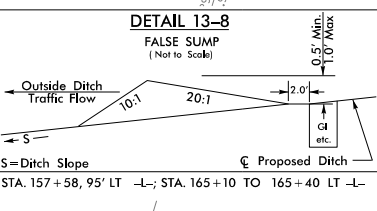
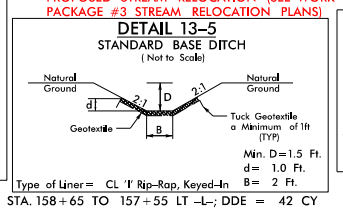
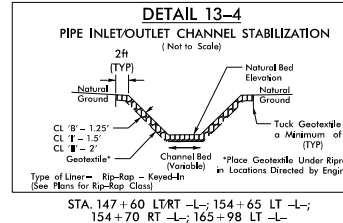
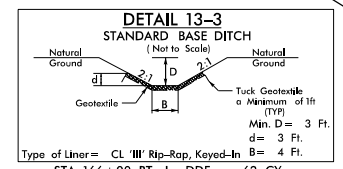
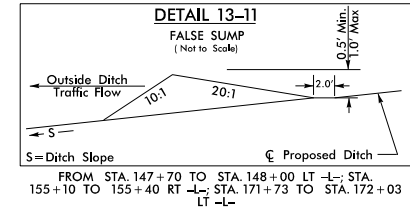
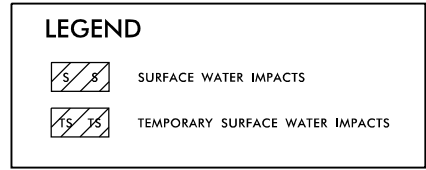
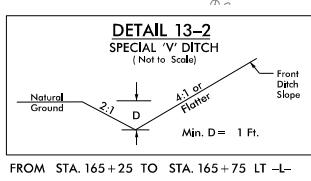
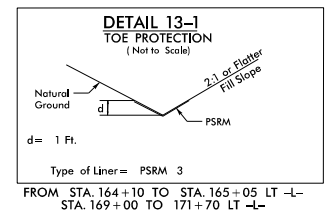
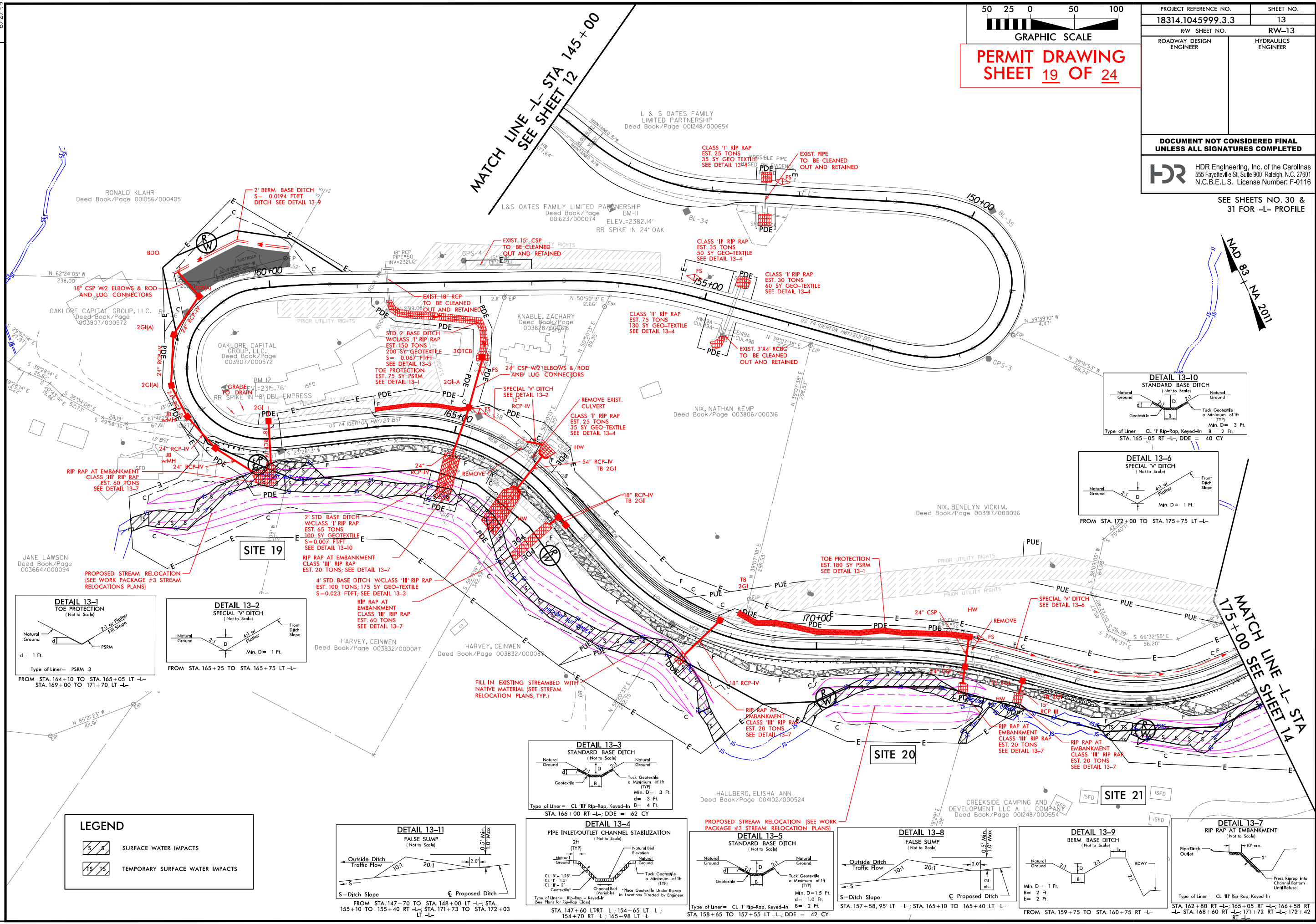
PROJECT REFERENCE NO.	SHEET NO.
18314.1045999.3.3	13
R/W SHEET NO.	RW-13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**HDR** 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

SEE SHEETS NO. 30 &  
31 FOR -L- PROFILE

MATCH LINE -L- STA 145+00  
SEE SHEET 12

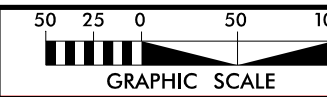


MATCH LINE -L- STA 175+00  
SEE SHEET 14

PLOT DRIVER: NCDOT\_permit.ncocon.wp#3.tbi  
USER: GJACOBSON  
DATE: 2/10/2026  
TIME: 3:03:05 PM  
FILE: \



6/2/99



PERMIT DRAWING  
SHEET 20 OF 24

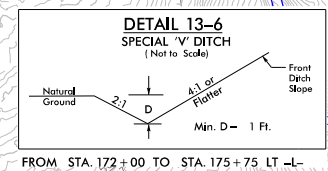
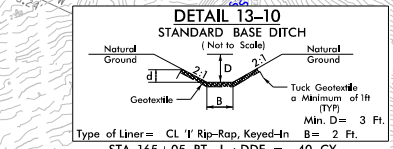
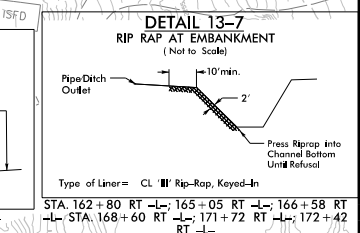
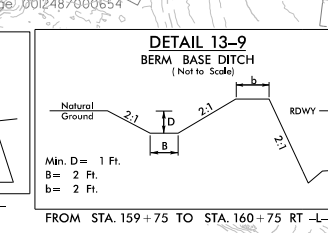
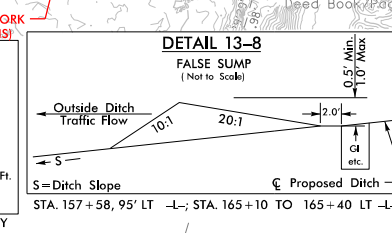
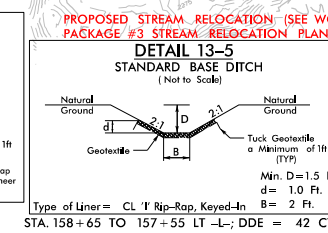
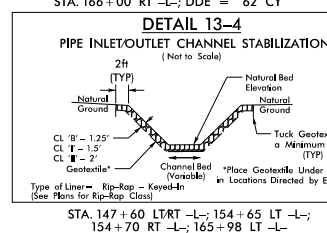
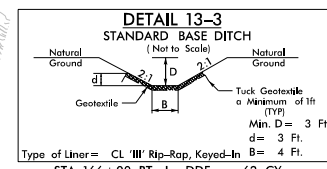
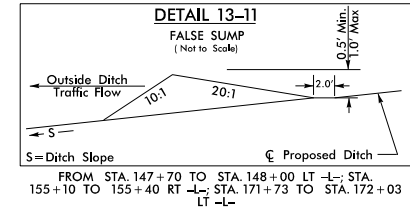
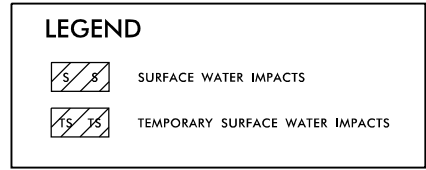
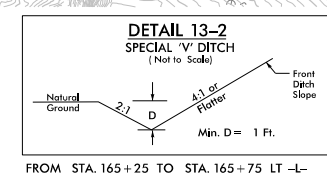
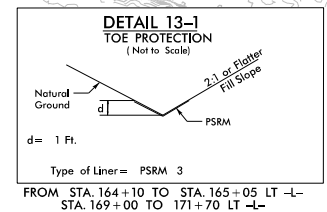
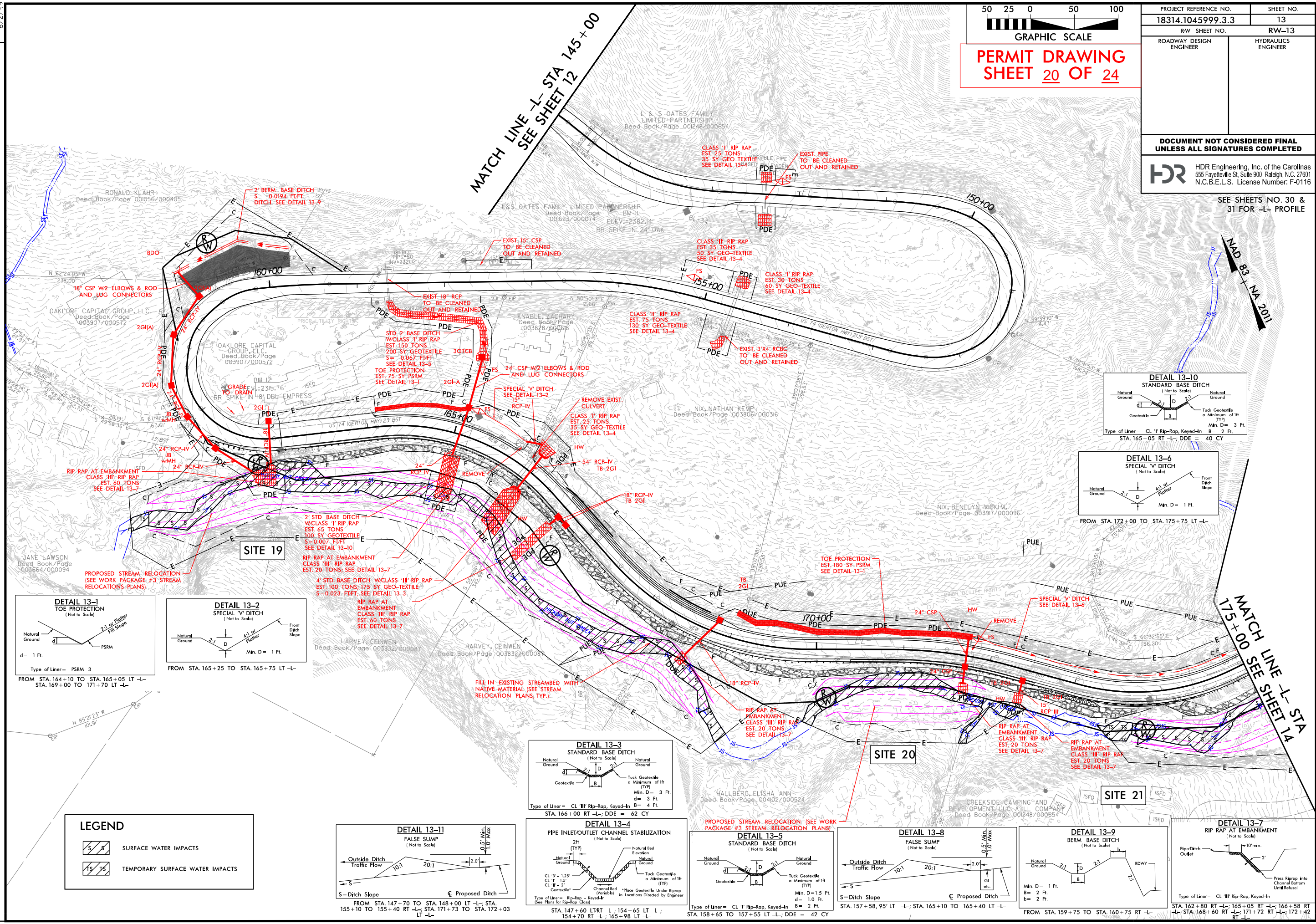
PROJECT REFERENCE NO.	SHEET NO.
18314.1045999.3.3	13
R/W SHEET NO.	RW-13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
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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

SEE SHEETS NO. 30 &  
31 FOR -L- PROFILE

MATCH LINE -L- STA 145+00  
SEE SHEET 12



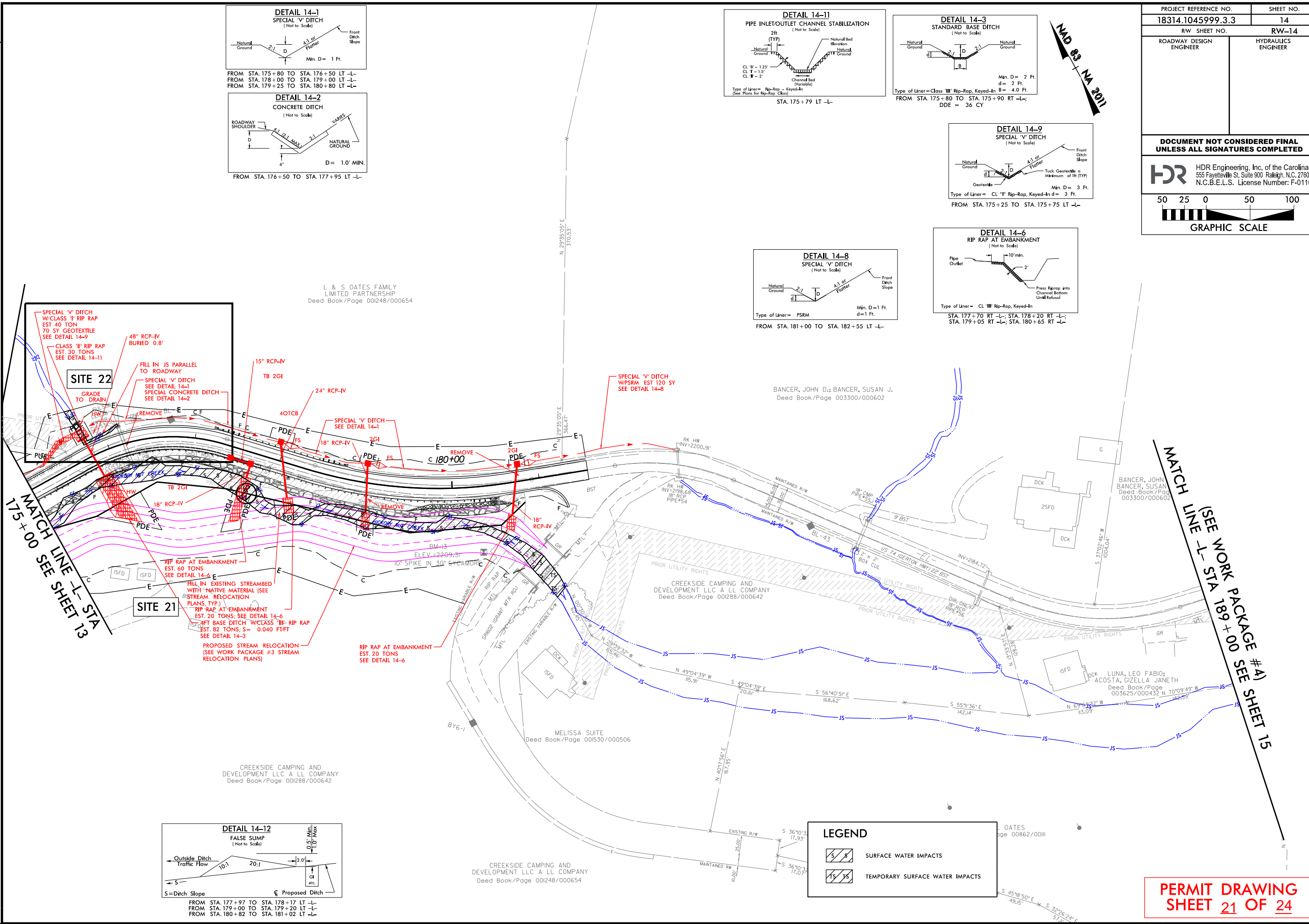
MATCH LINE -L- STA 175+00  
SEE SHEET 14

PLOT DRIVER: NCDOT\_permits.CON.WP#3.tbi  
PENTABLE: NCDOT\_permits.CON.WP#3.tbi  
USER: GJACOBSON  
DATE: 2/10/2026  
TIME: 3:03:09 PM  
FILE:



REVISIONS

6/2/99

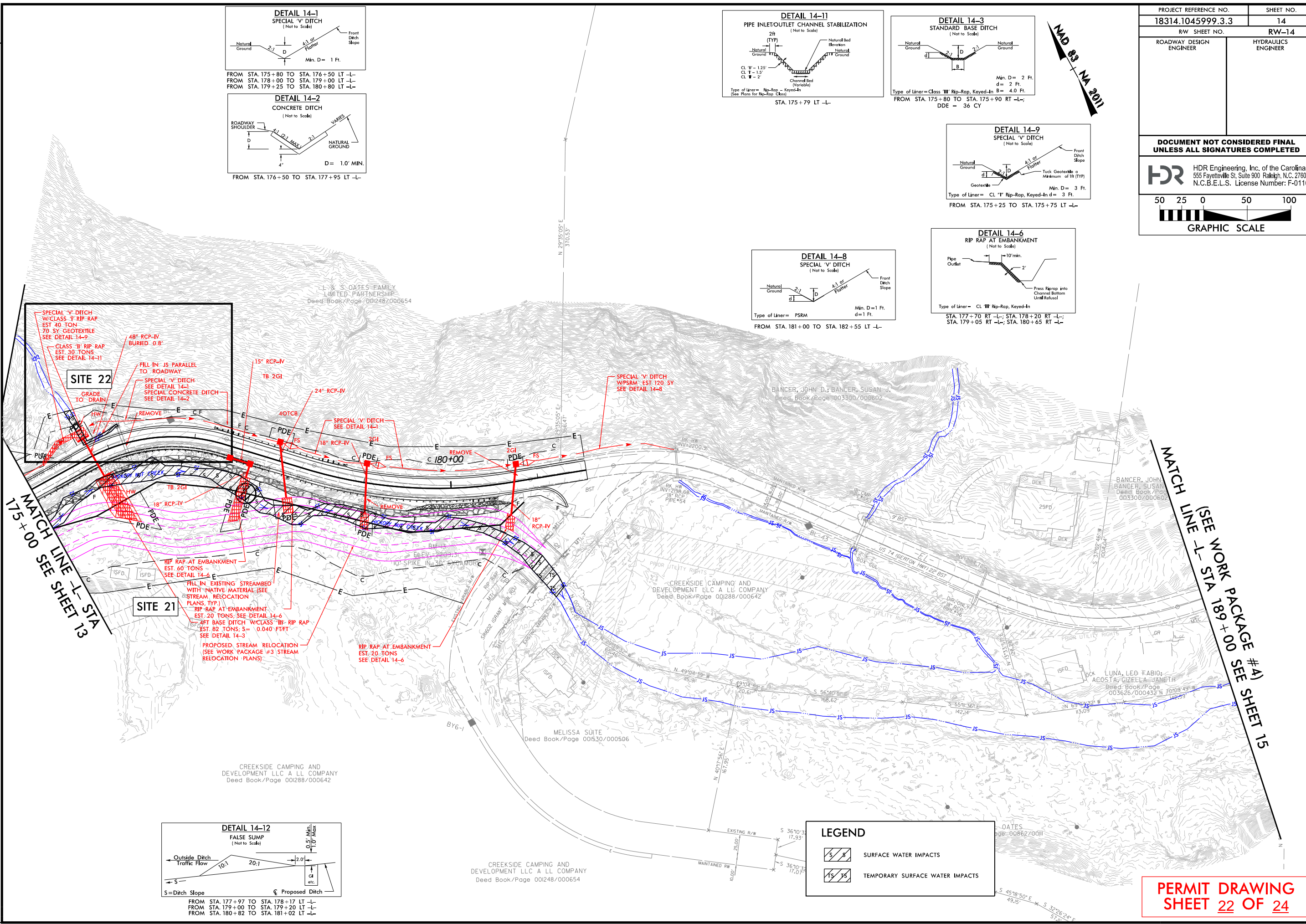


PROJECT REFERENCE NO.	SHEET NO.
18314.1045999.3.3	14
R/W SHEET NO.	RW-14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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50 25 0 50 100 GRAPHIC SCALE	



REVISIONS

6/2/99



REVISIONS

6/2/99

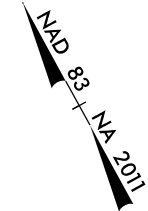
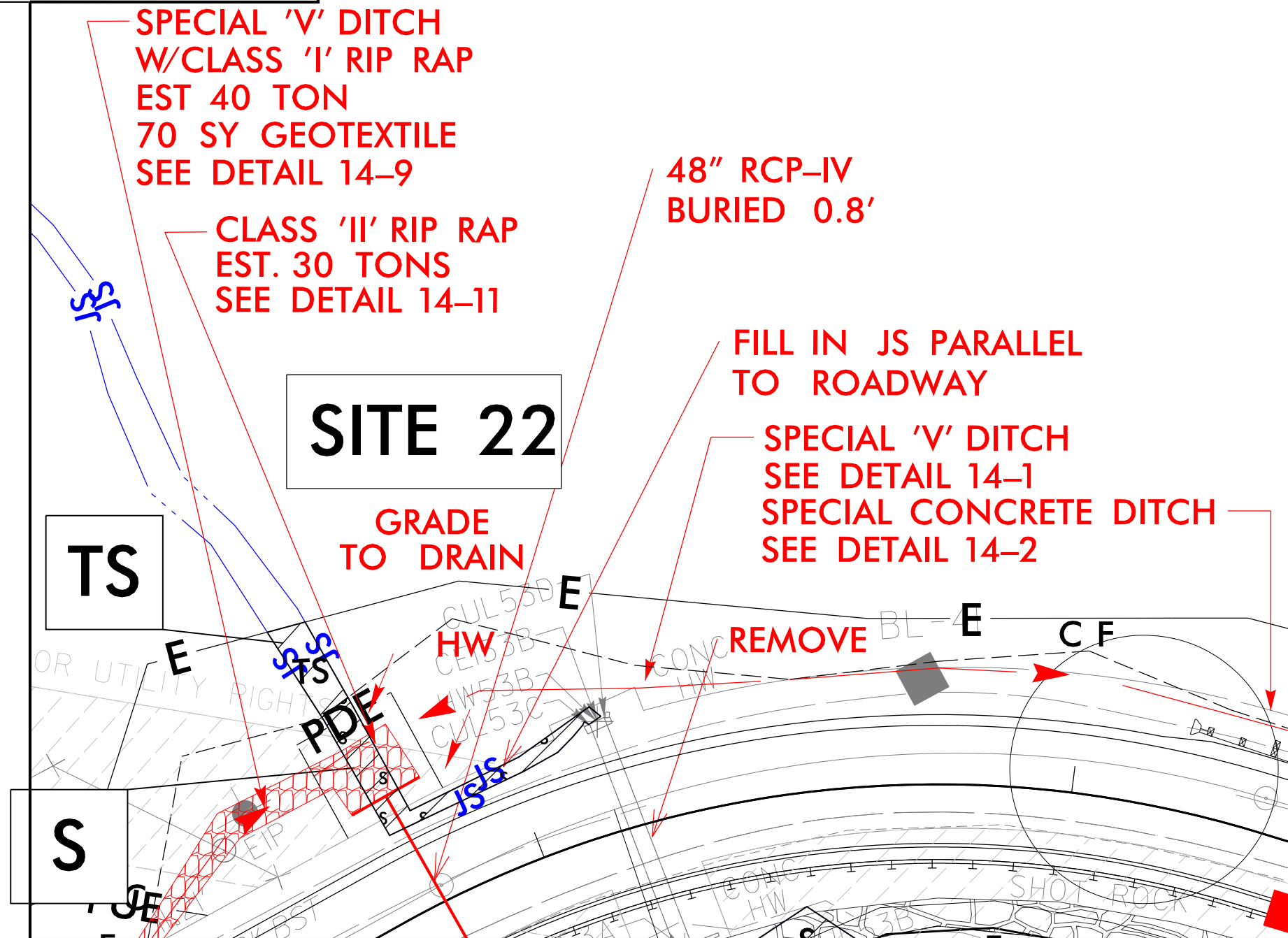
# LEGEND





SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS



PROJECT REFERENCE NO.		SHEET NO.	
18314.1045039 (WP3)		14A	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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 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			
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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	-L- 67+33 - 67+65	Bank Stabilization Hickory Nut Creek						0.02	< 0.01	61	35	
1	-L- 67+09 - 67+39	Bank Stabilization UT to Hickory Creek						< 0.01		34		
2	-L- 72+82	18" CSP							< 0.01		3	
3	-L- 77+69	Bank Stabilization						0.04	< 0.01	110	17	
3	-L- 79+21- 83+75	Hickory Nut Creek Relocation						0.12	< 0.01	433	22	
4	-L- 80+15 - 81+98	Temp Construction Easement/ Stream Relocation			< 0.01		0.06		< 0.01		86	
5	-L- 86+35 RT	6' X4' Culvert/Daylight Stream						< 0.01	< 0.01	9	18	
6	-L- 86+35 LT	Hickory Nut Creek/Daylight Stream							0.01		39	
7	-L- 96+42 - 97+10 RT	Bank Stabilization						< 0.01	< 0.01	52	15	
8	-L- 96+47 - 96+65 RT	Bank Stabilization						< 0.01	< 0.01	7	28	
9	-L- 96+96	Bank Stabilization						0.03	0.03	97	31	
10	-L- 100+40	Hickory Nut Creek/PDE							< 0.01		28	
11	-L- 101+78 - 102+77	8'X8' RCBC						0.01		87		
11	-L- 101+78 - 102+77	Bank Stabilization						< 0.01	< 0.01	17	8	
12	-L- 100+70 -106+22	Hickory Nut Creek Relocation/Temp Construction Easement						0.20	< 0.01	531	14	
13	-L- 113+05 - 113+24	Rip Rap at Embankment/ Temp Construction Easement						< 0.01	0.01	33	72	
14	-L- 120+98 - 120+12	Pipe Inlet/Outlet Channel Stabilization						< 0.01	0.01	28	15	
14	-L- 120+85	48" CSP						< 0.01		71		
15	-L- 126+81 - 128+71	36" RCP						< 0.01	< 0.01	78	3	
16	-L- 128+69 - 128+90	48" RCP-IV						< 0.01	< 0.01	40	42	
17	-L- 134+25	Ex. 2'X4' RCBC/ Channel Realignment						< 0.01	< 0.01	105	18	
18	-L- 138+52	36" RCP/30" CSP						0.02	< 0.01	99	14	
19	-L- 162+17 - 169+14	Hickory Nut Creek Relocation						0.29	0.02	774	59	
20	-L- 169+92 - 172+46	Hickory Nut Creek Relocation						0.07	0.03	198	68	
21	-L- 173+40 - 180+79	Hickory Nut Creek Relocation						0.25	0.03	765	76	
22	-L- 175+80	48" RCP-IV						< 0.01	< 0.01	23	17	
TOTALS*:					< 0.01		0.06	1.09	0.20	3652	729	0

\*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
JULY 2025  
HENDERSON COUNTY  
18314.1045039  
GERTON HWY - US 74

# ESA Consultation



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Asheville Field Office  
160 Zillicoa Street Suite B  
Asheville, North Carolina 28801



July 7, 2025

**Subject:** Review Response for Transportation Project(s) Covered by the Western North Carolina Bat Programmatic Biological Opinion

Greetings:

The U.S. Fish and Wildlife Service, Asheville Ecological Services Field Office, has reviewed the project(s) submitted on May 15, 2025 for coverage under the Western North Carolina (WNC) Bat Programmatic Biological Opinion (PBO), issued April 1, 2025. Based on the submitted materials and any supplemental information provided, we confirm the project(s) meet the criteria for coverage under this PBO in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531–1543) (ESA), thus concluding formal consultation for the project(s).

This correspondence conveys our review for listed/proposed bats covered by the WNC Bat PBO only. The lead federal agency (Federal Highway Administration or North Carolina Department of Transportation as their designee, or U.S. Army Corps of Engineers) remains responsible for ensuring that any other listed or proposed species and/or designated critical habitat that occurs within the project action area are addressed in accordance with section 7 of the ESA. For other listed species potentially occurring in the action area, if suitable habitat is absent from the action area, “No Effect” determinations are appropriate. For plants, in instances where suitable habitat is present and botanical surveys conducted during the optimal survey window and within the past one or two years (depending on the species) have negative results, we would concur with a biological determination of “may affect, not likely to adversely affect”.

Review and concurrence under the WNC Bat PBO are considered complete for the following project(s):

Project Title	NCDOT STIP/ID #	USFWS Log #
Widen US 321 from US 70 to SR 1933	U-4700	25-179
Widen US 21 from SR 2136 to Holly Point Drive, and from Northcross Center Ct. to SR 2147	U-5771/U-5767	25-180
Bearwallow Mountain Rd./US74A in-kind repairs	DF18314.2045120 W03290	25-181
US74A Gerton from Bearwallow Mtn Rd to US64/74A/NC9	18314.1045999CMGC	25-182
US74A/Middle Fork Rd./ Tom Falls Rd. repairs	DF18314.2045207 W03292	25-183
Bald Rock Rd. – Gilliam Mtn Rd./Sugarloaf Mtn Rd. repairs	DF18314.2045060 W03289	25-184

NC9 from 74A to Buncombe Co. line repairs	18314.1045035 W0920	25-185
NC88 landslide repair	28DE NC88 landslide	25-186

We appreciate the opportunity for review and comment.

Sincerely,

*U.S. Fish and Wildlife Service, Asheville Field Office*



# Archaeology

# Historic Architecture & Landscapes



# Tribal Coordination



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

January 6, 2025

Dr. Wenonah Haire  
Catawba Indian Nation  
Tribal Historic Preservation Office  
1536 Tom Steven Road  
Rock Hill, SC 29730

Dear Dr. Haire,

The North Carolina Department of Transportation is currently working on environmental and engineering studies for the permanent repair to US 74A due to the damage caused by Hurricane Helene. The repair area extends approximately 4.8 miles on US 74A from Bearwallow Mountain Road in Gerton to the US 64 / US 74A / NC 9 intersection in Henderson County.

The Federal Highway Administration (FHWA) is the lead federal agency for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA) and a Permit is anticipated under the Section 404 Process with the USACE. A project vicinity map is attached. The coordinates for this project are approximately: Western terminus: 35.479, -82.348, Eastern terminus: 35.453, -82.289.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts of the project including recommendation of alternates to be studied. Your comments may be used in the preparation of a NEPA Environmental Document. In accordance with Section 106 of the NHPA, we also request that you inform us of any historic properties of traditional religious or cultural importance that you are aware of that may be affected by the proposed project. Be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, we will maintain strict confidentiality about certain types of information regarding historic properties. Additionally, our ongoing studies will be provided to you if any applicable resources are identified.

Please respond by January 31 so that your comments can be used in the scoping of this project. Due to the emergency nature of this project, comments received before January 31 are greatly appreciated.

If you have any questions concerning this project, or would like any additional information, please contact me at [johnjamison@ncdot.gov](mailto:johnjamison@ncdot.gov) or (919) 707-6140.

Thank you,

A digital signature of John Jamison, appearing as a blue ink scribble over a white background.

John Jamison, NCDOT Environmental Policy Unit Head

Cc: Matt Wilkerson, NCDOT Archaeology Team Leader  
Crystal Amschler, USACE Project Manager  
Clarence Coleman, FHWA NC Division

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL ANALYSIS UNIT  
1598 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1598

*Telephone:* (919) 707-6000  
*Customer Service:* 1-877-368-4968

*Website:* [www.ncdot.gov](http://www.ncdot.gov)

*Location:*  
1000 BIRCH RIDGE DRIVE  
RALEIGH, NC 27610





STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

January 6, 2025

Elizabeth Toombs  
Tribal Historic Preservation Officer  
PO Box 948  
Tahlequah, OK 744465

Dear Ms. Toombs,

The North Carolina Department of Transportation is currently working on environmental and engineering studies for the permanent repair to US 74A due to the damage caused by Hurricane Helene. The repair area extends approximately 4.8 miles on US 74A from Bearwallow Mountain Road in Gerton to the US 64 / US 74A / NC 9 intersection in Henderson County.

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DocuSigned by:  
  
CA08B4A6412432

John Jamison, NCDOT Environmental Policy Unit Head

Cc: Matt Wilkerson, NCDOT Archaeology Team Leader  
Crystal Amschler, USACE Project Manager  
Clarence Coleman, FHWA NC Division

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

January 6, 2025

Russell Townsend  
Tribal Historic Preservation Officer  
2077 Governors Island Road  
Bryson City, NC 28713

Dear Mr. Townsend,

The North Carolina Department of Transportation is currently working on environmental and engineering studies for the permanent repair to US 74A due to the damage caused by Hurricane Helene. The repair area extends approximately 4.8 miles on US 74A from Bearwallow Mountain Road in Gerton to the US 64 / US 74A / NC 9 intersection in Henderson County.

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

January 6, 2025

PO Box 580  
Okmulgee, OK 74447

To Whom it May Concern,

The North Carolina Department of Transportation is currently working on environmental and engineering studies for the permanent repair to US 74A due to the damage caused by Hurricane Helene. The repair area extends approximately 4.8 miles on US 74A from Bearwallow Mountain Road in Gerton to the US 64 / US 74A / NC 9 intersection in Henderson County.

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DocuSigned by:  
  
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John Jamison, NCDOT Environmental Policy Unit Head

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

January 6, 2025

Roger Cain  
Section 106 Coordinator  
PO Box 746  
Tahlequah, OK 74465

Dear Mr. Cain,

The North Carolina Department of Transportation is currently working on environmental and engineering studies for the permanent repair to US 74A due to the damage caused by Hurricane Helene. The repair area extends approximately 4.8 miles on US 74A from Bearwallow Mountain Road in Gerton to the US 64 / US 74A / NC 9 intersection in Henderson County.

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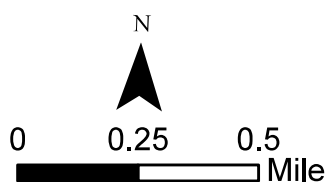
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## Legend

-  US74A Gerton Study Area
-  County Boundary
-  Stream



**Figure 1.**  
**Study Area Map**  
US 74A Gerton Highway  
Hurricane Helene Emergency Repair Project  
in Henderson County

NEPA

Document