

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR
SECRETARY

June 19, 2015

U.S. Army Corps of Engineers Regulatory Field Office 2407 West 5th Street Washington, NC 27889 N.C. Division of Coastal Management

1367 US 17 South

Elizabeth City, NC 27909

ATTN: Ms. Tracey Wheeler

ATTN:

Mr. Greg Daisey

NCDOT Coordinator

NCDOT Coordinator

Subject: Application for Section 404 Nationwide Permit 33, and Section 401 Water Quality

Certification, and CAMA Major Development Permit for the Replacement of the

Temporary Bridge over New Inlet on NC 12 in Dare County, TIP No. B-2500 AB, Debit \$475 from WBS Element 32635.1.3.

References: CAMA Permit No. 106-12 modified April 22, 2014.

404 Permit Action ID: SAW-2013-01039 issued December 9, 2014.

CAMA Permit No. 104-11 modified January 16, 2015.

404 Regional General Permit Modification 1980000291 (Action ID: SAW-2013-01039),

received via electronic mail January 2015. 401 Certification # 20130144v.4 issued April 10, 2014

Dear Madam and Sir:

The North Carolina Department of Transportation requests issuance and modification to the above Referenced permits (with the exception of CAMA Permit No. 104-11 and 404 Regional General 1980000291) to redesign the structure replacing the existing temporary bridge over New Inlet. Pursuant to the Settlement Agreement between Defenders of Wildlife and National Wildlife Refuge Association, the North Carolina Department of Transportation, North Carolina Department of Environment and Natural Resources Division of Coastal Management, Federal Highway Administration and Cape Hatteras Electric Membership Corporation, the project scope has changed. The attached revisions will reduce the project area, and will therefore have reduced impacts compared to the previously permitted project.

Please find attached revised: PCN, MP forms, stormwater management plan, permit drawings, and roadway drawings.

This application provides proposed impacts needed to construct B-2500 AB. Previously permitted work which has not already taken place outside of the limits shown in the included drawings, will no longer occur, with the exception of the water access points necessary for pile jetting. Specifically, this includes the water access points at Sites 16, 17. Site 10 water access point will still be used, and is within the revised project area.

Three test piles were installed as described in previous authorizations. Due to the depth and size of these piles, safety concerns to traveling public, and practicability, these piles cannot be removed in their entirety at this time. As such, the Department proposes to cut the piles 1-foot below ground or deeper if groundwater allows. At some point in the future, should either NCDOT or NCDCM determine that the remaining portions of the piles have become an obstruction, the Department will coordinate with the permitting agencies to examine removal options of the exposed portions adjacent to NC 12.

The piles of the existing temporary structure should be able to be removed in their entirety. However, jetting may be required to assist in their removal.

Construction of the replacement structure will remain as described in previous modifications. Top-down construction may be utilized however, temporary work bridges may be used if water is present in New Inlet and if water is not present, timber matting may be used. Timber matting/ temporary work bridges may also be utilized for demolition of the existing structure. Timber matting/ temporary work bridges are displayed on Permit Drawing Sheet 6.

To protect the proposed bridge abutments from scour, 300-400 pound stones will be placed around the bridge abutments as displayed in Permit Drawing Sheet 2-4 as well as roadway plans sheets.

Compensatory Mitigation

Permanent wetland or stream impacts are not proposed for this project. Permanent impacts previously permitted for B-2500 A will not be necessary. Impacts that have already occurred as a result of B-2500 A, such as the onsite detour, will be restored to natural elevations prior to the completion of B-2500 AB.

As a result, compensatory mitigation is no longer proposed for this project and the Department will credit wetland mitigation previously debited from the Bodie Island Lighthouse Pond.

Proposed Let Date

The tentative let date for this project is currently scheduled for September 15, 2015, with a July 28, 2015 review date. Therefore, we request issuance of the above requested modifications by the review date.

Regulatory Approvals

<u>Section 404 Permit</u>: Issuance of a Nationwide Permit 33 is hereby made for the above-described activities.

<u>Section 401 Certification</u>: NCDOT hereby requests NCDWR's review for the above mentioned activities.

<u>CAMA</u>: Modification of the existing CAMA permit is hereby made for the above-mentioned activities. Authorization to debit \$475 from WBS 32635.1.3 is hereby given for the permit application fee.

A copy of this request and its distribution list will be posted on the NCDOT Website at: https://connect.ncdot.gov/resources/Environmental. If you have any questions or need additional information, contact Michael Turchy at maturchy@ncdot.gov or 919 707-6157.

Sincerely,

Rodger Rochelle, P.E. Administrator

Technical Services Division

The "cc" List: NCDOT Permit Application Standard Distribution List



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR
ANTHONY J. TATA
SECRETARY

June 19, 2015

U.S. Fish and Wildlife Service Pea Island National Wildlife Refuge PO Box 1969 Manteo, NC 27954

ATTN: Mr. Mike Bryant

Refuge Manager

SUBJECT: Request for Modification of Permits for Construction and Demolition Activities for the

Replacement of the Temporary Bridge over New Inlet on NC 12 in Dare County, TIP No.

B-2500 AB.

REFERENCE: PINWR SUP September 16, 2013

Settlement Agreement June 2015

Dear Mr. Bryant:

The North Carolina Department of Transportation requests modifications to the above referenced permit to redesign the structure replacing the existing temporary bridge over New Inlet. Pursuant to the Settlement Agreement between Defenders of Wildlife and National Wildlife Refuge Association, the North Carolina Department of Transportation, North Carolina Department of Environment and Natural Resources Division of Coastal Management, Federal Highway Administration and Cape Hatteras Electric Membership Corporation, the project scope has changed. The attached revisions will reduce the project area, and will therefore have reduced impacts compared to the previously permitted project.

This reduced project area on will result in fewer impacts compared to the previously permitted replacement structure. However, additional temporary construction easements within the Pea Island National Wildlife Refuge (PINWR) will be needed for construction. Due to the tight alignment, constructability issues, and morphology, "slivers" of PINWR property may be temporarily impacted. The additional temporary construction easement needed on the Pea Island National Wildlife Refuge is 0.135 acres (or 5,859 square feet).

1598 MAIL SERVICE CENTER RALEIGH NC 27699-1598 TELEPHONE: 919-707-6100

FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:

1020 BIRCH RIDGE DRIVE RALEIGH NC 27610-4328 This letter serves as a request for a modification of the Special Use Permit held by the Department, for the construction of the project and any associated temporary impacts, including temporary construction easements. Project drawings are included for your review and reference.

Minimization

The following measures and commitments, as found in the previous application, remain applicable:

NCDOT has continued to minimize impacts to PINWR and lessen the easement requirements for the project. The primary goal was to align the bridge as close to the existing NC 12 as feasible while generally adhering to NCDOT and FHWA design standards.

Protected Species Measures

A number of conservation measures for protected species are being implemented for this project. As the mission of your agency and PINWR includes wildlife conservation, we hereby reference these measures, which are further documented in the USFWS Biological and Conference Opinions. In addition:

- An educational night lighting meeting on-site will be scheduled with USFWS and all contractors in order to minimize disturbance to sea turtles and other protected species. Night lighting will meet the requirements specified in the attached USFWS Biological and Conference Opinions, unless otherwise specified by USFWS.
- No permanent light fixtures will be mounted on the proposed bridge.
- To the maximum extent practical, while ensuring safe travel, NCDOT will limit or avoid the use of road signs or other potential predator perches adjacent to plover nesting and foraging areas. Large cantilever signs will be avoided in favor of smaller and shorter signs.

Construction Staging Measures

- All areas of Temporary Construction Easement will be returned to the conditions present before construction started or better, and where applicable, areas to be returned to PINWR will be restored to natural habitat conditions to the satisfaction of the Refuge Manager.
- No staging of construction equipment or storage of construction supplies will be allowed in wetlands.
- Lighting required at the staging area will be coordinated along with other construction lighting to ensure no adverse effects to sea turtles and other aquatic species.
- Fueling stations will be contained to avoid inadvertent spills reaching surface waters. Any spills will be controlled and reported as applicable.

Proposed Let Date

The tentative let date for this project is currently scheduled for September 15, 2015, with a July 28, 2015 review date. Therefore, we request issuance of the above requested modifications by the review date.

Regulatory Approvals

Regulatory Approvals

The NCDOT anticipates that these activities will also be authorized under the following permits:

- USACE General 404 Permit
- NC Division of Water Quality 401 Water Quality Certification
- NC Division of Coastal Management CAMA Major Development Permit (Modification)

If you have any questions or would like additional information, please contact Michael Turchy at maturchy@ncdot.gov or (919) 707-6157. A copy of this modification request will also be posted at http://www.doh.dot.state.nc.us/preconstruct/pe/.

Sincerely,

ar

Rodger Rochelle, P.E. Administrator

Technical Services Division

cc:

Ms. Tracey Wheeler, Washington Field Office, USACE

Ms. Cynthia Dohner, Southeast Regional Director, USFWS





Office Use Only:
Corps action ID no
DWQ project no
Form Version 1.3 Dec 10 2008

	Pre-Construction Notification (PCN) Form						
A.	Applicant Information						
1.	Processing						
1a.	Type(s) of approval sought from Corps:	the	⊠ Section 404 Permit ☐ Secti	on 10 Permit			
1b.	Specify Nationwide Permit (NWP) number: 3	and General Permit (GP) r	number:			
1c.	Has the NWP or GP number bee	n verified b	y the Corps?	⊠ Yes	□No		
1d.	Type(s) of approval sought from	the DWQ (check all that apply):				
		n – Regula	r Non-404 Jurisdictiona	al General Permi	t		
	☐ 401 Water Quality Certification	n – Expres	Riparian Buffer Autho	orization			
1e.	Is this notification solely for the rebecause written approval is not re		For the record only for DWQ 401 Certification:	For the record	only for Corps Permit:		
	по п	- qu u .	⊠ Yes □ No	☐ Yes	⊠ No		
1f.	Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.			☐ Yes	⊠ No		
1g.	g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.			⊠ Yes	□No		
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	⊠ Yes	□No		
2.	Project Information						
2a.	Name of project:	Replacem	ent of the temporary bridge over Ne	w Inlet on NC 12	in Dare County.		
2b.	County:	Dare					
2c.	Nearest municipality / town:	Rodanthe					
2d.	Subdivision name:	not applic	able				
2e.	NCDOT only, T.I.P. or state project no:	B-2500 A	В				
3.	Owner Information						
3a.	Name(s) on Recorded Deed:	North Car	olina Department of Transportation				
3b.	Deed Book and Page No.	not applic	able				
3c.	Responsible Party (for LLC if applicable):	not applicable					
3d.	Street address:	1598 Mail Service Center					
3e.	City, state, zip:	Raleigh, NC 27699-1598					
3f.	Telephone no.:	(919) 707	-6157				
3g.	Fax no.:	(919) 212	-5785				
3h.	n. Email address: maturchy@ncdot.gov						

4.	Applicant Information (if different from owner)			
4a.	Applicant is:	Agent	Other, specify:	
4b.	Name:	not applicable		
4c.	Business name (if applicable):			
4d.	Street address:			
4e.	City, state, zip:			
4f.	Telephone no.:			
4g.	Fax no.:			
4h.	Email address:			
5.	Agent/Consultant Information	n (if applicable)		
5a.	Name:	not applicable		
5b.	Business name (if applicable):			
5c.	Street address:			
5d.	City, state, zip:			
5e.	Telephone no.:			
5f.	Fax no.:			
5g.	Email address:			

В.	Project Information and Prior Project History	
1.	Property Identification	
1a.	Property identification no. (tax PIN or parcel ID):	not applicable
1b.	Site coordinates (in decimal degrees):	Latitude: 35.68427 Longitude: - 75.48389 (DD.DDDDDD) (-DD.DDDDDD)
1c.	Property size:	12.3 acres
2.	Surface Waters	
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Pamlico Sound/ Atlantic Ocean
2b.	Water Quality Classification of nearest receiving water:	SA
2c.	River basin:	Pasquotank
3.	Project Description	
За.	Describe the existing conditions on the site and the general lar application:	nd use in the vicinity of the project at the time of this
	Natural barrier island conditions. Area protected by USFWS P	ea Island National Wildife Refuge.
3b.	List the total estimated acreage of all existing wetlands on the	property:
	170 acres, as approved by the Corps on the 5/21/2012 JD, wh	ich includes wetlands outside of the easement.
3c.	List the total estimated linear feet of all existing streams (interm 100 feet (New Inlet)	ittent and perennial) on the property:
3d.	Explain the purpose of the proposed project: To replace a temporary bridge built in 2011 to span an inlet op approximately 2,350 foot long bridge.	ened in August 2011 by Hurricane Irene, with an
3e.	Describe the overall project in detail, including the type of equipment project involves replacing a temporary bridge near the existendard road building equipment, such as trucks, dozers, and	sting alignment with an approximately 2,350 foot bridge.
4.	Jurisdictional Determinations	
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past?	⊠ Yes ☐ No ☐ Unknown
4h	Comments: If the Corps made the jurisdictional determination, what type	
	of determination was made?	☐ Preliminary ☐ Final
4c.	If yes, who delineated the jurisdictional areas? Name (if known): Ms. Lorrie Laliberte Boswell	Agency/Consultant Company: CZR Incorporated Other:
4d.	If yes, list the dates of the Corps jurisdictional determinations of 5/21/2012	or State determinations and attached documentation.
5.	Project History	
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	⊠ Yes ☐ No ☐ Unknown
5b.	If yes, explain in detail according to "help file" instructions. Please see "Reference" line in the Permit Application Cover Le	etter
6.	Future Project Plans	
6a.	Is this a phased project?	☐ Yes ☐ No See attached cover letter.
6b.	If yes, explain.	

C. Proposed Imp	acts Inventory						
1. Impacts Summ	ary						
1a. Which sections	were completed be	elow for your project	(check all that a	pply):			
		Streams - tributaries	□Bu	ffers			
	. □ F	ond Construction					
2. Wetland Impac	ts						
	mpacts proposed		plete this quest	ion for each wetland a	area impacte	d.	
2a.	2b.	2c.	2d.	2e.	iotion	2f.	
Wetland impact number –	Type of impact	Type of wetland	Forested	Type of jurisd (Corps - 404		Area of impact	
Permanent (P) or		(if known)		DWQ – non-404		(acres)	
Temporary (T)	-		Yes	□ Corps		0.04	
Site 9 DP T	Fill	Marsh	⊠ No	☐ DWQ		< 0.01	
Site 18 🗌 P 🖾 T	Fill	Marsh	│	│ ⊠ Corps │ □ DWQ		< 0.01	
				<u> </u>		Permanent:	
				2g. Total wetlar	nd impacts	zero	
				9		Temporary: < 0.01	
2h. Comments:							
Hand Clearing Impa	cts:						
Site 7: < 0.01 Site 9: < 0.01							
Site 18: <0.01							
3. Stream Impacts							
-	l or intermittent str	eam impacts (includi	ng temporary in	npacts) proposed on t	he site, then	complete this	
3a.	3b.	3c.	3d.	3e.	3f.	3g.	
Stream impact	Type of impact	Stream name	Perennial	Type of	Average	Impact length	
number -			(PER) or	jurisdiction	stream	(linear feet)	
Permanent (P) or Temporary (T)			intermittent (INT)?	(Corps - 404, 10 DWQ – non-404,	width (feet)		
, , ,			,	other)	(,		
Site 1 P T			PER	Corps			
			☐ INT	DWQ Corps			
Site 2 P T				DWQ			
Site 3 P T			☐ PER	Corps			
			☐ INT	DWQ			
Site 4 P T			☐ PER ☐ INT	☐ Corps☐ DWQ			
Site 5 P T			PER	Corps			
			☐ INT	DWQ			
Site 6 P T			☐ PER ☐ INT	│			
	3h. Total stream and tributary impacts						

4. Open	Water In	npacts								
	If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.									
4a. 4b. 4c.							4d.		4e.	
Open v impact nu Permaner Tempora	ımber – nt (P) or	Name of waterbody (if applicable)	Type of impact		Waterbody type		Area of impact (acres)			
07 🔲 I	P⊠T	Isolated Pond		Fill			Isolated	Pond	C	0.04
O8 🔲 I	P⊠T	Isolated Pond			Fill		Isolated	Pond	C).13
O9 🔲 I	P⊠T	Isolated Pond			Fill		Isolated	Pond	C	0.01
O10 🗌	P⊠T	New Inlet			Fill		Inle	t	C).14
011 🗌	P⊠T	Isolated Pond			Fill		Isolated	Pond	C	0.02
O19 🗌	P⊠T	Isolated Pond			Fill		Isolated	Pond	< 0.01	
4f. Total open water impacts 0.35 Temporary						emporary				
4g. Comm	nents:									
5. Pond	or Lake	Construction								
If pond or	lake cons	struction proposed,	then comp	olete	the chart b	elow.				
5a.	5b.		5c.				5d.			5e.
Pond ID		posed use or	Wetland Impacts (acres)			Stream Impacts (feet)			Upland (acres)	
number	pur	pose of pond	Floode	ed	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	nents:									
5h. Is a dam high hazard permit required?				ПΥ	es	□No	If yes, peri	mit ID no		
5i. Exped	cted pond	I surface area (acre	s):							
5j. Size o	of pond w	atershed (acres):								
5k. Metho	5k. Method of construction:									

6. Buffer Impacts (for DWQ)								
	If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form.							
6a. Project is in which	protected basin?	☐ Neuse ☐ Catawba	Tar-Pamlico Randleman	Other:				
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)			
B1 □ P □ T			☐ Yes ☐ No					
B2			☐ Yes ☐ No					
B3 □ P □ T			☐ Yes ☐ No					
6h. Total buffer impacts								
6i. Comments:					•			

D.	Impact Justification and Mitigation				
1.	Avoidance and Minimization				
1a.	Specifically describe measures taken to avoid or minimize	the proposed impacts in	n designing project.		
	The project has been reduced from 2.1 miles, to approxima	tely 1 mile.			
	All impacts are now temporary in nature.				
	Upon completion, the temporary bridge and approaches wi the Pea Island National Wildlife Refuge (PINWR). All jettin Easement unless the Pea Island National Wildlife Refuge a	g spoils will also be dis	posed of within this 100' Transportation		
1b.	Specifically describe measures taken to avoid or minimize	the proposed impacts the	nrough construction techniques.		
	Temporary construction runoff will be controlled by using Silt Fence, Special Silt Fence, Temporary Slope Drains, Rock Silt Checks, and Temporary Matting and Grassing as appropriate.				
	Temporary fill in wetlands will be required. Areas will be re	stored to preconstruction	on elevations.		
	Jetting spoils will not be disposed of in jurisdictional areas.	Jetting spoils may be u	used by the PINWR at their discretion.		
	Preventative measures will be taken to minimize impacts to	fish species during wa	ter intake for jetting operations.		
	A screen will be used on the intake of the jetting pumping of	perations to prevent the	e intake of larval species.		
	Jetting piping will be placed by hand to reduce impacts in wetland areas.				
	Jetting installation of the bents in New Inlet will occur at ebl	o tide.			
2.	Compensatory Mitigation for Impacts to Waters of the I	J.S. or Waters of the S	State		
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes No If no, explain			
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Cor	ps		
2c.	If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lieu ☐ Permittee Respon			
3.	Complete if Using a Mitigation Bank				
3a.	Name of Mitigation Bank: not applicable				
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity		
3c.	Comments:				
4.	Complete if Making a Payment to In-lieu Fee Program				
4a.	Approval letter from in-lieu fee program is attached.	Yes			
4b.	Stream mitigation requested:	linear feet			
4c.	If using stream mitigation, stream temperature:	☐ warm ☐ cod	ol		
4d.	Buffer mitigation requested (DWQ only):	n/a square feet			
4e.	Riparian wetland mitigation requested:	n/a acres			
4f.	Non-riparian wetland mitigation requested:	n/a acres	-		
4g.	Coastal (tidal) wetland mitigation requested:	acres			

4h. Comments:							
5. Comple	. Complete if Using a Permittee Responsible Mitigation Plan						
5a. If using	5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.						
6. Buffer	Mitigation (State Regulated	Riparian Buffer Rule	s) – required by DWC)			
	6a. Will the project result in an impact within a protected riparian buffer that requires ☐ Yes ☐ No buffer mitigation?						
	6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.						
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)			
Zone 1			3 (2 for Catawba)				
Zone 2			1.5				
		6f. Total buffer	mitigation required:				
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).							
6h. Comme	nts:						

E.	Stormwater Management and Diffuse Flow Plan (required by DWQ)					
1.	Diffuse Flow Plan					
1a.	Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	☐ Yes	⊠ No			
1b.	If yes, then is a diffuse flow plan included? If not, explain why. Comments:	☐ Yes	□ No			
2.	Stormwater Management Plan					
2a.	What is the overall percent imperviousness of this project?	N/A				
2b.	Does this project require a Stormwater Management Plan?	⊠ Yes	□ No			
2c.	If this project DOES NOT require a Stormwater Management Plan, explain why:					
2d.	2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.					
2e.	Who will be responsible for the review of the Stormwater Management Plan?		al Government water Program nit			
3.	Certified Local Government Stormwater Review					
3a.	In which local government's jurisdiction is this project?	not applicable				
3b.	Which of the following locally-implemented stormwater management programs apply (check all that apply):	Phase II NSW USMP Water Suppl Other:	y Watershed			
3c.	Has the approved Stormwater Management Plan with proof of approval been attached?	Yes	□ No			
4.	DWQ Stormwater Program Review					
4a.	Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal coul HQW ORW Session La Other:	nties w 2006-246			
4b.	Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	☐ No n/a			
5.	DWQ 401 Unit Stormwater Review					
5a.	Does the Stormwater Management Plan meet the appropriate requirements?	⊠ Yes	□No			
5b.	Have all of the 401 Unit submittal requirements been met?	⊠ Yes	□No			

F.	Supplementary Information				
1.	Environmental Documentation (DWQ Requirement)				
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	⊠ Yes		□ No	
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	⊠ Yes		□No	
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)	⊠ Yes		□No	
	Comments: FHWA is currently reevaluating the Record of Decision (ROD).				
2.	Violations (DWQ Requirement)				
2a.	Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes		⊠ No	
2b.	Is this an after-the-fact permit application?		Yes	⊠ No	
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	of the viola	ation(s):		
3.	Cumulative Impacts (DWQ Requirement)				
3a.	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☑ No			
3b.	b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description.				
	Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.				
4.	Sewage Disposal (DWQ Requirement)				
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility. not applicable	arge) of w	astewat	er generated from	

5.	5. Endangered Species and Designated Critical Habitat (Corps Requirement)					
5a.	Will this project occur in or near an are habitat?	ea with federally protected species or	⊠ Yes	□ No		
5b.	Have you checked with the USFWS compacts?	oncerning Endangered Species Act	⊠ Yes	□ No		
5c. If yes, indicate the USFWS Field Office you have contacted. ☐ Raleigh ☐ Asheville						
5d.	5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?					
	Consultation with the USFWS					
6.	Essential Fish Habitat (Corps Requi	rement)				
6a.	Will this project occur in or near an area	a designated as essential fish habitat?	⊠ Yes	□ No		
6b.	What data sources did you use to dete	ermine whether your site would impact E	ssential Fish Habitat?			
7.	Historic or Prehistoric Cultural Reso	ources (Corps Requirement)				
7a.	7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? ✓ Yes					
7b.	What data sources did you use to dete	ermine whether your site would impact hi	storic or archeological re	esources?		
8. F	Flood Zone Designation (Corps Requi	irement)				
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	⊠ Yes [No		
8b.	If yes, explain how project meets FEMA	A requirements: NCDOT Hydraulics Unit	coordination with FEMA	*		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps						
_	Applicant/Agent's Printed Name	Applicant/Agent's Sig (Agent's signature is valid only if an authoriza is provided.)		6-19-15 Date		



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT MCCRORY GOVERNOR

June 19, 2015

ANTHONY J. TATA SECRETARY

Pea Island National Wildlife Refuge ATTN: Mr. Dennis Stewart PO BOX 1969 Manteo, NC 27954-1969

Dear Landowner:

The North Carolina Department of Transportation (NCDOT) proposes to modify the existing permit to replace the existing temporary bridge over "New Inlet," from a 2.1 mile bridge, to a 2,350 foot bridge. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A permit application, vicinity map and site drawings are enclosed for your review.

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have <u>no</u> objections to the proposal, please return the form with your response within 30 days to this office. If you <u>do</u> have objections to the project, please forward your comments to:

Mr. Greg Daisey N.C. Division of Coastal Management 1367 US 17 South Elizabeth City, NC 27909

Thank you for your cooperation. Sincerely,

1400

Rodger Rochelle, P.E. Administrator Technical Services Division

Enclosures

cc:

Greg Daisey, NCDCM

File: B-2500 AB

ADJACENT RIPARIAN LANDOWNER STATEMENT

Dare County: Construction of Bridge over New Inlet NCDOT TIP B-2500 AB

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

l,	, am an adjacent ripa	rian property owner and am aware									
of the North Carolina Department of Transportation's plans for constructing a bridgover New Inlet in Dare County, North Carolina. I am further aware that this work with cocur in one or more Areas of Environmental Concern and therefore will require											
	n from the Division of Coastal Manageme	-									
	ement Act (CAMA).										
	I have no objection to the project as pre that right of objection as provided in Ge	, , ,									
	I have objections to the project as prese comments are attached	ntly proposed and my									
Signature of	Adjacent Riparian Landowner	Date									
Phone Num	ber with Area Code										

APPLICATION for Major Development Permit

1. Primary Applicant/ Landowner Information



(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

Business Name F				Project Name (if applicable)						
North Carolina Department Of Transportation				B-2500 AB						
Applicant 1: First Name MI				Last Name						
Richard		W	Hancock							
Applicant 2: First Name		MI		Last Name						
If additional applicants, plea	se attach an additional pag	ge(s) v	with names l	isted.						
Mailing Address				PO Box	City			State		
1020 Birch Ridge Drive					Rale	igh		NC		
ZIP	Country		Phone No.		ı		FAX No.	I		
27610	US		919 - 707 -	6157 ext.			-		-	
Street Address (if different fi	rom above)	J.		City	State			ZIP		
									-	
Email					•					
2. Agent/Contract	or Information					•				
Business Name										
N/A										
Agent/ Contractor 1: First N	ame	MI		Last Name						
Agent/ Contractor 2: First N	ame	МІ		Last Name						
Mailing Address				PO Box	City				State	
ZIP		Phor	ne No. 1			Phone No	0. 2			
			-	- ext.		-	-		ext.	
FAX No.		Cont	tractor #		'					
Street Address (if different fi	rom above)	•		City	State			ZIP		
									-	
Email										

<Form continues on back>

3. Project Location							
County (can be multiple)	Street Address				State Rd. #		
County (can be multiple) Dare			outh of southern most fresh ne. 21111 A NC Highway	NC-12			
Subdivision Name	•	City		State	Zip		
N/A		Rodanth	ne	NC	n/a -		
Phone No.		•	Lot No.(s) (if many, attach	n additional	page with list)		
N/A ext.			N/A, , ,	,			
a. In which NC river basin is the project	ct located?		b. Name of body of water	nearest to	proposed project		
Pasquotank			Pamlico Sound				
c. Is the water body identified in (b) ab	oove, natural or manma	ade?	d. Name the closest majo	r water bod	y to the proposed project site.		
⊠Natural □Manmade □Unknov			Atlantic Ocean				
e. Is proposed work within city limits o	r planning jurisdiction?)	f. If applicable, list the pla	nning jurisd	iction or city limit the proposed		
☐Yes ⊠No	, ,,		work falls within.	0,	, , ,		
			N/A				
4. Site Description							
a. Total length of shoreline on the trac	t (ft.)		b. Size of entire tract (sq.f	ft.)			
300 ft		174,240					
c. Size of individual lot(s)					ve NHW (normal high water) or		
N/A, , ,			NWL (normal water lev	,			
(If many lot sizes, please attach add	3' ⊠NHW or	∐NWL					
e. Vegetation on tract							
Brackish marsh, smooth cordgr reed stands, beach, dunes and				time grass	land, black needlerush,		
f. Man-made features and uses now o	n tract						
Existing NC-12, utility lines, rec							
g. Identify and describe the existing la	nd uses <u>adjacent</u> to th	e propose	d project site.				
Recreational (federal Seashore	and Refuge lands),	, open sp	ace, open water and wate	r foul impo	oundments.		
·							
h. How does local government zone th	ne tract?	i. Is the proposed project consistent with the applicable zoning?					
Unzoned			(Attach zoning compliance certificate, if applicable)				
			□Yes □No ⊠NA				
j. Is the proposed activity part of an url	ban waterfront redevel	opment pr	oposal?	□Yes	⊠No		
k. Has a professional archaeological a	assessment been done	for the tra	act? If yes, attach a copy.	⊠Yes	□No □NA		
If yes, by whom?				NCDOT			
I. Is the proposed project located in a I National Register listed or eligible p		storic Dist	rict or does it involve a	⊠Yes	□No □NA		

<Form continues on next page>

m. (i) Are there wetlands on the site?	⊠Yes □No	
(ii) Are there coastal wetlands on the site?	⊠Yes □No	
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	⊠Yes □No	
n. Describe existing wastewater treatment facilities.		
N/A		
o. Describe existing drinking water supply source.		
N/A		
p. Describe existing storm water management or treatment systems.		
Grass swales and Rip rap pads at the pipe ends		
5. Activities and Impacts		
a. Will the project be for commercial, public, or private use?	□Commercial ⊠Publi □Private/Community	c/Government
b. Give a brief description of purpose, use, and daily operations of the project when complete.		
NCDOT Roadway and temporary bridge.		
c. Describe the proposed construction methodology, types of construction equipment to be used of equipment and where it is to be stored.	during construction, the I	number of each type
Work bridge over open water. Crane, backhoe, etc, for construction and demolotion	١.	
d. List all development activities you propose.		
Roadway re-alignment and new temporary bridge.		
Roadway to anglitheric and new temporary bridge.		
a. Are the proposed activities maintanance of an existing project, new work, or both?	Dath	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both	
f. What is the approximate total disturbed land area resulting from the proposed project?	12.3	Ft or ⊠Acres
		_
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	⊠Yes □No □NA	
h. Describe location and type of existing and proposed discharges to waters of the state.		
The roadway typical is shoulder section, therefore runoff from the road will quickly in		
Stormwater runoff along the concrete sheet pile walls will go over the top of the wall walls where it will infiltrate into sandy soils. Bridge deck will drain using horizontal december 2.	s and rail onto rip-rap p eck drains. Bridge is 9	blaced along the blaced along the
ground elevation.		
i. Will wastewater or stormwater be discharged into a wetland?	⊠Yes □No □NA	
If yes, will this discharged water be of the same salinity as the receiving water?	□Yes ⊠No □NA	
j. Is there any mitigation proposed?	□Yes ⊠No □NA	
If yes, attach a mitigation proposal.		

<Form continues on back>

6	Additional Information	
In pa	addition to this completed application form, (MP-1) the following items below, if applicable, must ackage to be complete. Items (a) – (f) are always applicable to any major development application struction booklet on how to properly prepare the required items below.	be submitted in order for the application on. Please consult the application
a.	A project narrative.	
b.	An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale proposed project. Is any portion already complete? If previously authorized work, clearly indicates between work completed and proposed.	Please give the present status of the ate on maps, plats, drawings to distinguish
C.	A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the	area to the site.
d.	A copy of the deed (with state application only) or other instrument under which the applicant cl	aims title to the affected properties.
e.	The appropriate application fee. Check or money order made payable to DENR.	
f.	A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and owners have received a copy of the application and plats by certified mail. Such landowners m which to submit comments on the proposed project to the Division of Coastal Management.	d signed return receipts as proof that such ust be advised that they have 30 days in
	Name Pea Island National Wildlife Refuge, Attn: Mr. Dennis Stewart	Phone No.
	Address PO Box 1969, Manteo, NC 27954-1969	
	Name	Phone No.
	Address	
	Name	Phone No.
	Address	
	See References in attached permit application cover letter. Signed consultant or agent authorization form, if applicable. Wetland delineation, if necessary.	
	A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property)	perty owner)
	A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if nec of public funds or use of public lands, attach a statement documenting compliance with the Nor	essary. If the project involves expenditure
	Certification and Permission to Enter on Land	and a substantial to the continue
Th	understand that any permit issued in response to this application will allow only the de ne project will be subject to the conditions and restrictions contained in the permit.	evelopment described in the application.
er	certify that I am authorized to grant, and do in fact grant permission to representatives nter on the aforementioned lands in connection with evaluating information related onitoring of the project.	of state and federal review agencies to to this permit application and follow-up
۱f	urther certify that the information provided in this application is truthful to the best of n	ny knowledge.
Da	ate 6-19-15 Print Name Redy Rochelle	
	Print Name Reductionalists Signature	
	ease indicate application attachments pertaining to your proposed project. IDCM MP-2 Excavation and Fill Information	and Culverts

Form DCM MP-5

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1.	BRIDGES		☐ This section not applicable
a.	Is the proposed bridge: ☐Commercial ☑Public/Government ☐Private/Community	b.	Water body to be crossed by bridge: Pea Island, New Inlet
C.	Type of bridge (construction material): Reinforced Concrete	d.	Water depth at the proposed crossing at NLW or NWL: Approx. 8' (NWL) at breach
e.	 (i) Will proposed bridge replace an existing bridge?	f.	(i) Will proposed bridge replace an existing culvert? ☐Yes ☑No If yes, (ii) Length of existing culvert: (iii) Width of existing culvert: (iv) Height of the top of the existing culvert above the NHW or NWL: (v) Will all, or a part of, the existing culvert be removed? (Explain)
g.	Length of proposed bridge: 2,350'	h.	Width of proposed bridge: 36' out to out
i.	Will the proposed bridge affect existing water flow? ☐Yes ☒No If yes, explain:	j.	Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ☐ Yes ☐ No If yes, explain: New breach between Pamlico Sound and Atlantic Ocean. Vertical clearance will be increased.
k.	Navigation clearance underneath proposed bridge: Approx. 10' to 11.5'	I.	Have you contacted the U.S. Coast Guard concerning their approval? ☐ Yes ☐ No If yes, explain: Advanced approval has been received.
m.	Will the proposed bridge cross wetlands containing no navigable waters? ☐ Yes ☐ No If yes, explain: Coastal wetlands	n.	Height of proposed bridge above wetlands: Approx. 9' to 12'
2.	CULVERTS		☑ This section not applicable
a.	Number of culverts proposed:	b.	Water body in which the culvert is to be placed:
			<u> </u>

< Form continues on back>

).	Type of culvert (construction material):		
d.	(i) Will proposed culvert replace an existing bridge? Yes No	e.	(i) Will proposed culvert replace an existing culvert? ☐Yes ☐No If yes, (ii) Length of existing culvert(s): (iii) Width of existing culvert(s): (iv) Height of the top of the existing culvert above the NHW or NWL: (v) Will all, or a part of, the existing culvert be removed? (Explain)
f. h.	Length of proposed culvert: Height of the top of the proposed culvert above the NHW or NWL.	g. i.	Width of proposed culvert: Depth of culvert to be buried below existing bottom contour.
j.	Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐Yes ☐No If yes, explain:	k.	Will the proposed culvert affect existing water flow? ☐Yes ☐No If yes, explain:
3.	EXCAVATION and FILL		□This section not applicabl
a.	 (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL?	b.	(i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW

 d. If the placement of the bridge or culvert involves any excavation, please complete the following: (i) Location of the spoil disposal area: Jetting spoils will be confined to the 100' Transportation Easement within the Pea Islandian Wildlife Refuge, unless the Refuge accepts the material for Refuge use. 									
 (iii) Do you claim title to the disposal area? ☐Yes ☒No (If no, att) (iv) Will the disposal area be available for future maintenance? ☐Ye (v) Does the disposal area include any coastal wetlands/marsh (CW), bottom (SB)? ☐CW ☐SAV ☐WL ☐SB ☒None 	tach a s ⊠ subm	letter granting permission from the owner.) No							
(vi) Does the disposal area include any area below the NHW or NWL If yes, give dimensions if different from (ii) above.	? ? []Yes ⊠No							
(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? ☐ Yes ☐ No If yes, (ii) Avg. length of area to be filled: ☐ (iii) Avg. width of area to be filled: ☐ (iv) Purpose of fill:	f.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.							
 (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground?									
GENERAL									
Will the proposed project require the relocation of any existing utility lines?	b.	Will the proposed project require the construction of any temporary detour structures? ☐Yes ☑No If yes, explain:							
	(i) Location of the spoil disposal area: Jetting spoils will be confin National Wildlife Refuge, unless the Refuge accepts the mate (ii) Dimensions of the spoil disposal area: TBD by contractor, poss (iii) Do you claim title to the disposal area? □Yes ☑No (If no, ati (iv) Will the disposal area be available for future maintenance? □Ye (V) Does the disposal area include any coastal wetlands/marsh (CW), bottom (SB)? □CW □SAV □WL □SB ☑None If any boxes are checked, give dimensions if different from (ii) above. If yes, give dimensions if different from (iii) above. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? □Yes ☑No If yes, (ii) Avg. length of area to be filled: □(iv) Purpose of fill: □(iv) Purpose of fill: □(iv) Purpose of fill: □(iv) Purpose of fill: Roadway approaches to bridge □(iv) Pyes ☑No If yes, explain: □(iv) Pyes ☑No If the proposed project has already received approval from local authorities, please attach a copy of the	(i) Location of the spoil disposal area: Jetting spoils will be confined to National Wildlife Refuge, unless the Refuge accepts the material for the disposal area: TBD by contractor, possibly if the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? (ii) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or Rowl. (iii) Avg. length of area to be filled:							

< Form continues on back>

C.	Will the proposed project require any work channels? ☐Yes ☐No If yes, complete Form DCM-MP-2.	d.	How will excavated or fill material be kept on site and erosion controlled? Standard erosion control measures such as silt fence and rock filter dams.
e.	What type of construction equipment will be used (for example,	f.	Will wetlands be crossed in transporting equipment to project site?
	dragline, backhoe, or hydraulic dredge)? Work bridge over open water; Crane and backhoe for piers; timber matting; pile hammer; jetting equipment		☐Yes ☐No If yes, explain steps that will be taken to avoid or minimize environmental impacts.
g.	Will the placement of the proposed bridge or culvert require any shoreline stabilization? ☐ Yes ☑ No If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.		
Dat	6-19-15		
	2500 AB		
App	plicant Name	_	
App	olicant Signature		

Form DCM MP-5 (Bridges and Culverts, Page 4 of 4)



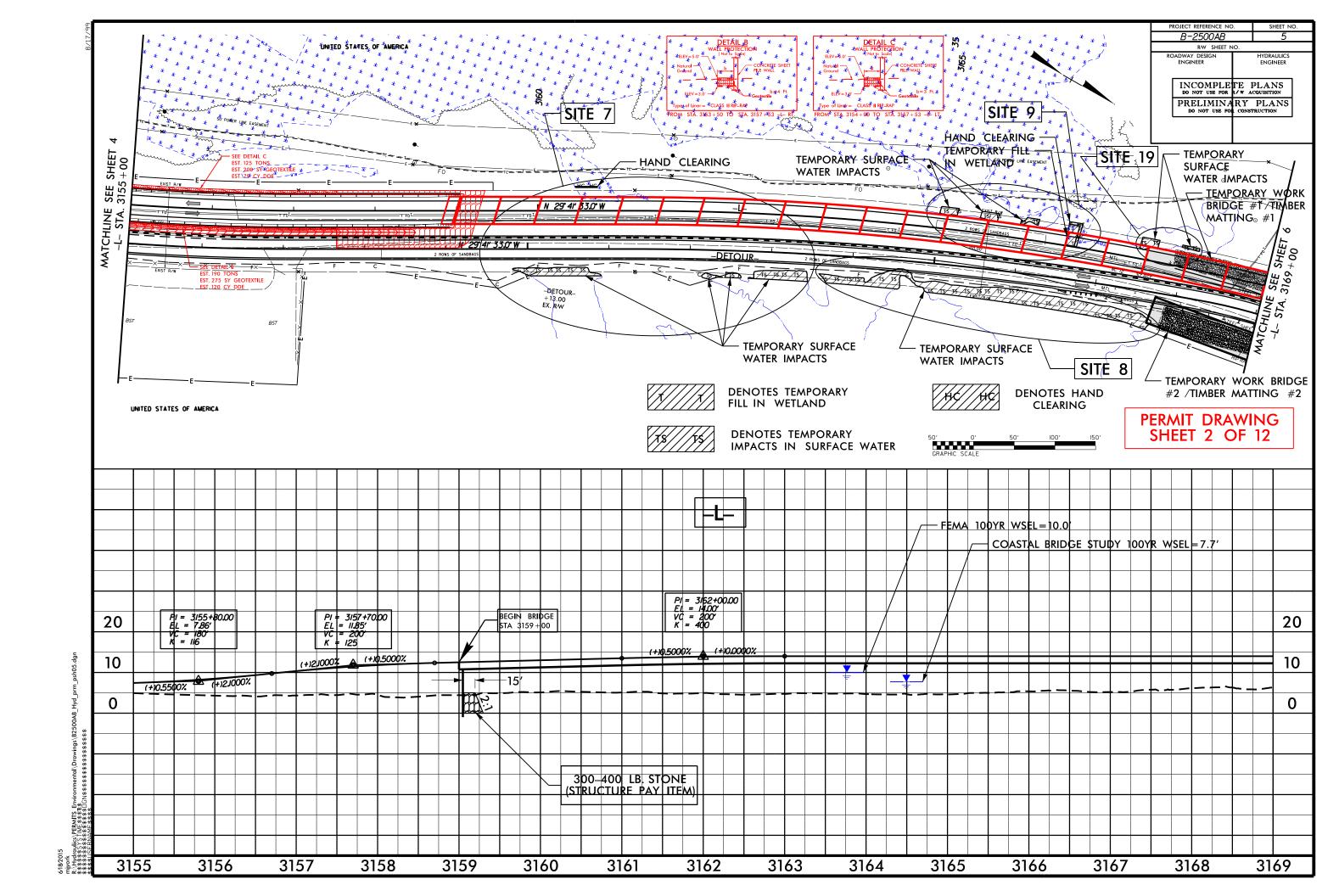
North Carolina Department of Transportation

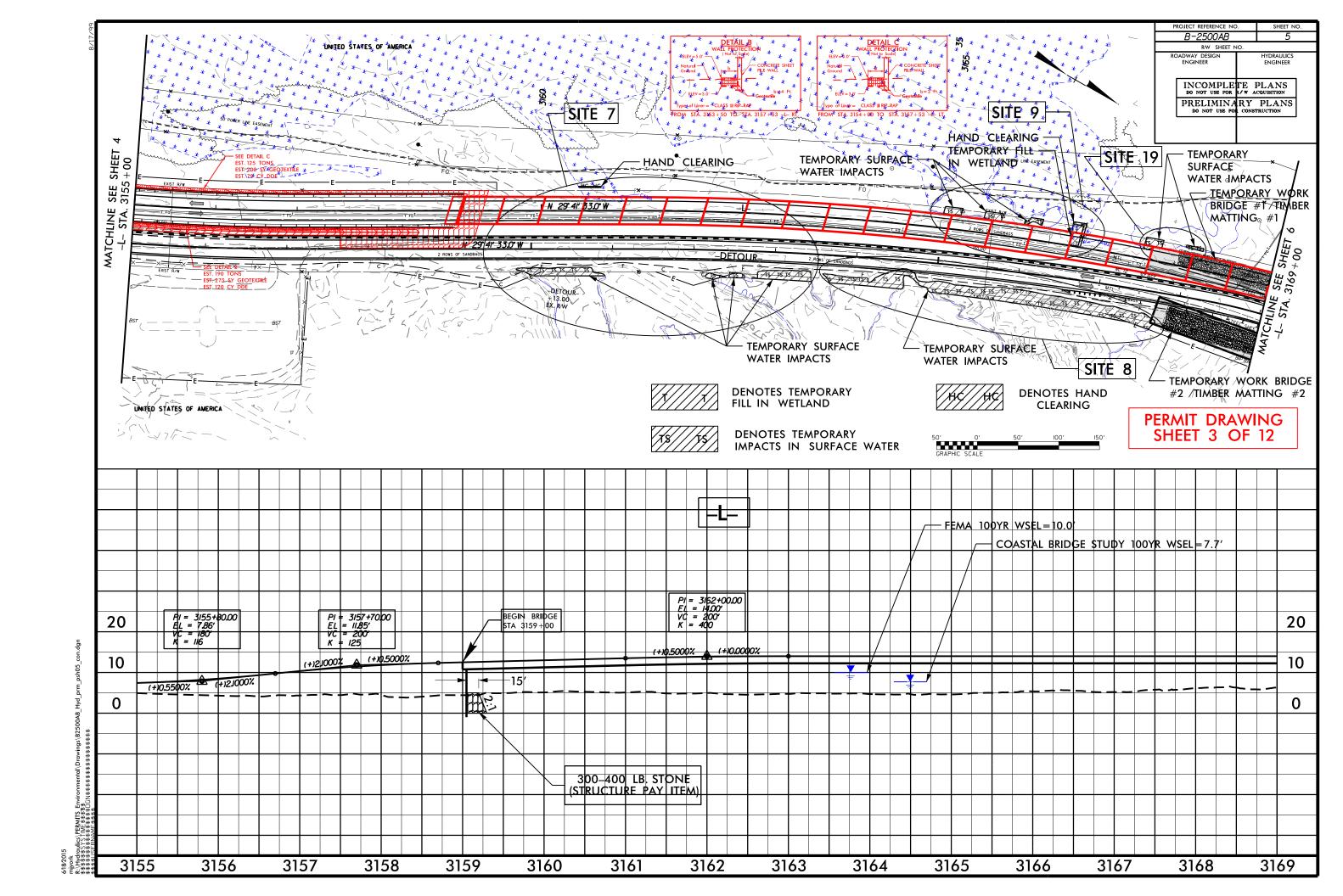
Highway Stormwater Program STORMWATER MANAGEMENT PLAN

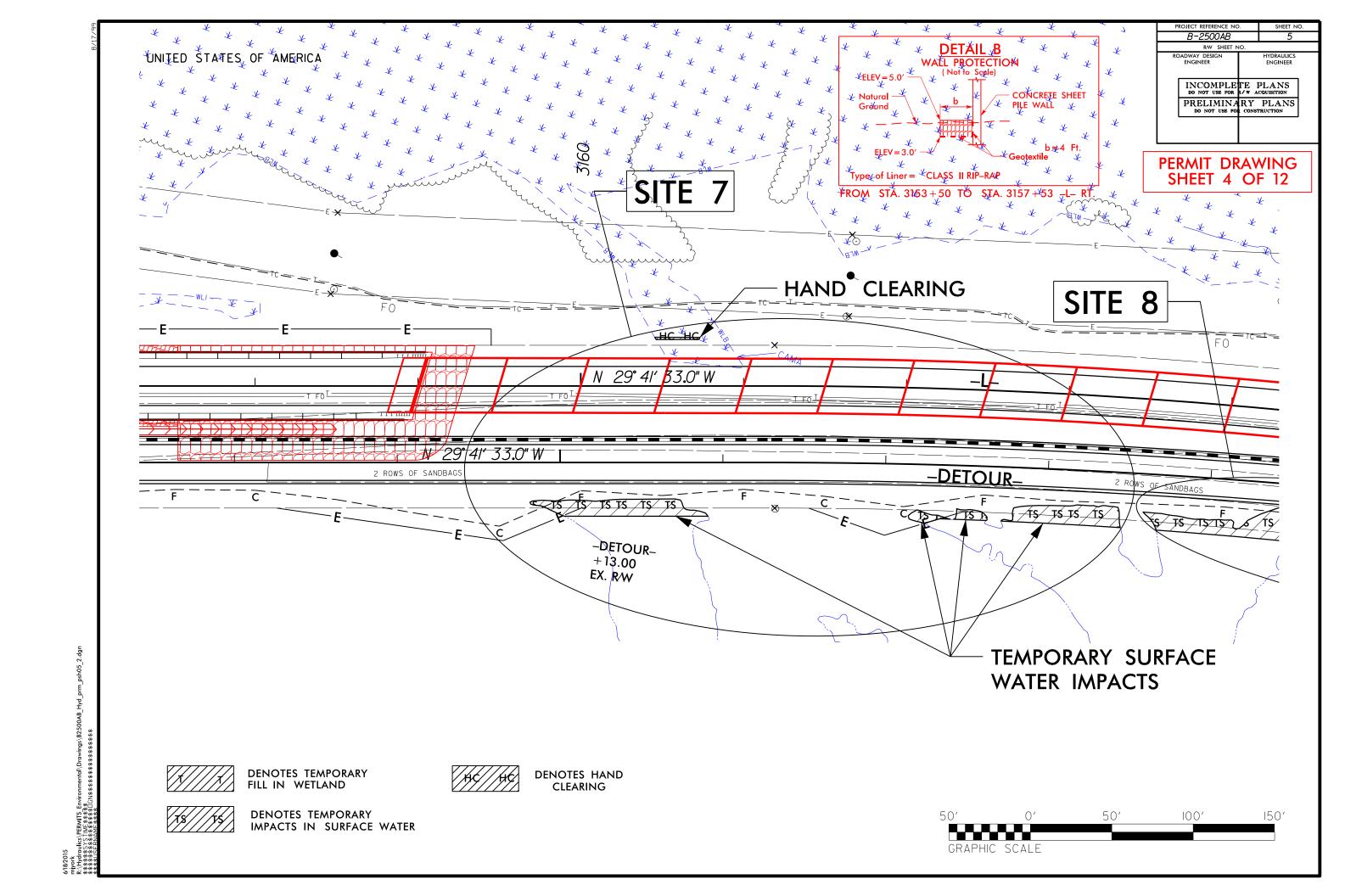


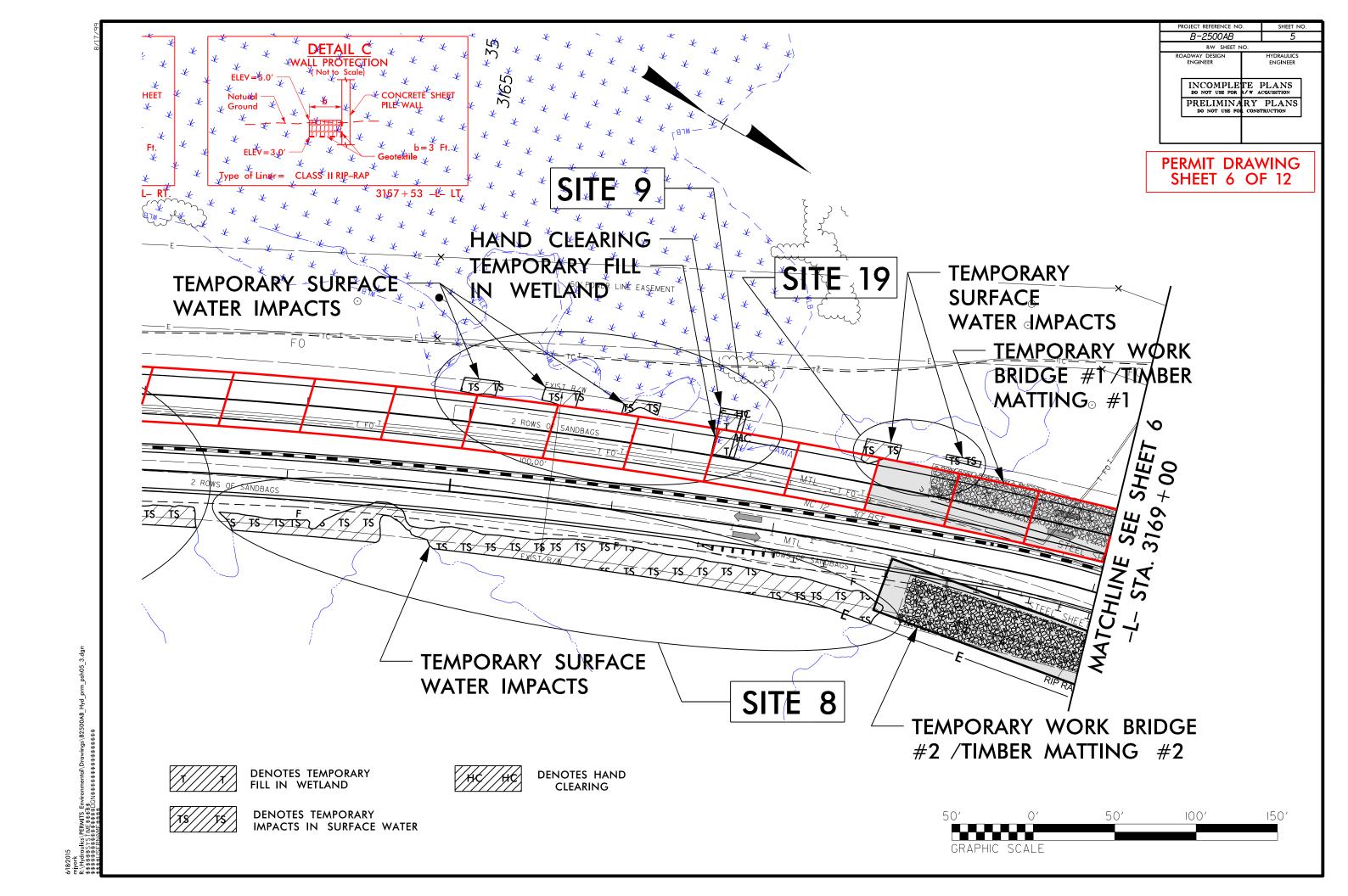
(Version 2.02; Released April 2015) FOR NCDOT PROJECTS													
WBS Element:	32635.1.3	TIP No.:	B-2500AB		County(ies):	Dare				Page 1	of	1	
				Ge	eneral Project	Information							
WBS Element:		32635.1.3		TIP Number:	B-2500AB		Project	:Туре:	New Location	Date:	6/18/2	015	
NCDOT Contact:		John W. Twisda	le, Jr., PE			Contractor / Design		Matthew Yo	ork				
	Address:	1020 Birch Ridg					·	1020 Birch	Ridge Road				
		Raleigh, NC 276						Raleigh, N					
		3 ,											
	Phone:	919-707-6700					Phone:	919-707-67	765				
		jtwisdale@ncdot	t.aov					mjyork@no					
City/Town:		,	•	Island		County(ies):	Da		l l				
River Basin(s):		Pasq	uotank			CAMA County?	Ye						
Wetlands within Pro	ject Limits?	Yes						-	l	L			
					Project Desc	cription							
Project Length (lin. ı	miles or feet):	1.017	7 miles	Surrounding L		Coastal Barrier Isla	ind						
i rojoci zarigini (iiii				Proposed Projec					Existing Site	e			
Project Built-Upon A	Area (ac.)		4.0		ac.			3.3	ac.	<u> </u>			
Typical Cross Section		Two lane highwa		anes and 8' should		nd 4' W/GR).	Two lane hig		O' travel lanes and 2' pay	ved shoulders.			
l **	•	Ĵ	•		` .	,		Ť	·				
Annual Avg Daily Tra	affic (veh/hr/day):	Design/Futur	e: 1	0900	Year:	2032	Existing:		7300	Ye	ear: 2	2012	
General Project Nari	rative:	The project is located within the Pasquotank Basin in Dare County which is also a CAMA county. The roadway typical is shoulder section, therefore runoff from								rom the ro	ad will		
(Description of Mini	mization of Water	quickly infiltrate into the sandy shoulders. Stormwater runoff along the concrete sheet pile walls will go over the top of the walls and fall onto rip-rap placed along the walls											
Quality Impacts)		where it will infilt	where it will infiltrate into sandy soils.										
		The evicting tem	norom, otruoturo k	and a total langth of	GGAL and the n	ranged tamparary	ridge will bew	o o total land	rth of 2250'. The proper	and tomporory bri	م النام سنال المح		
		The existing temporary structure has a total length of 664' and the proposed temporary bridge will have a total length of 2350'. The proposed temporary bridge will have horizontal deck drains down the entire length of the bridge roughly 7' to 11' above the ground elevation. Concentration of runoff has been minimized by placing deck drains on											
		4'-4" centers and no deck drains within 5'-5" from all proposed bridge bents. These distributed flows will quickly infiltrate into existing soils. Open graded friction course will be											
		used on the bridge deck which will reduce total suspended solids concentrations and decrease under carriage wash from vehicles. Finally the existing two lane facility will be											
				vill be equal or bette					·	Ŭ			
				g over water body:	a en 11					1 20 2 0			
		The water body shown on the permit drawings is currently filled in with sand. The water body forms during major storm events causing a breach within the coastal barrier											
		island. The water body will later fill back in after the storm event, but the bridge will span the water body as long as it remains open. For more frequent rain events, water from bridge will be discharged onto sand.											
		bridge will be dis	oriarged onto sar	iu.									
					Waterbody Inf								
Surface Water Body	(1):		Atlantic	Ocean		NCDWR Stream In		N/A					
NCDWR Surface Wa	ter Classification fo	r Water Body		Primary Classific	ation:	Class S	SA						
TODAY CANAGO Water Glasemoation				Supplemental Cla	assification:	High Quality Wa	ters (HQW)						
Other Stream Classi	fication:												
Impairments:													
Aquatic T&E Species	s?		Comments:										
NRTR Stream ID:								Buffer Rul	es in Effect:		N/A		
Project Includes Bri	dge Spanning Wate	r Body?	No	Deck Drains Disc			No		Pads Provided in Buff		N/A		
Deck Drains Discha	rge Over Water Bod	y?	No	(If yes, provide	e justification in	the General Project	Narrative)	(If yes, d	escribe in the General F		f no, justif	y in the	
(If yes, provid	de justification in the	General Project N	Varrative)	1					General Pro	oject Narrative)			

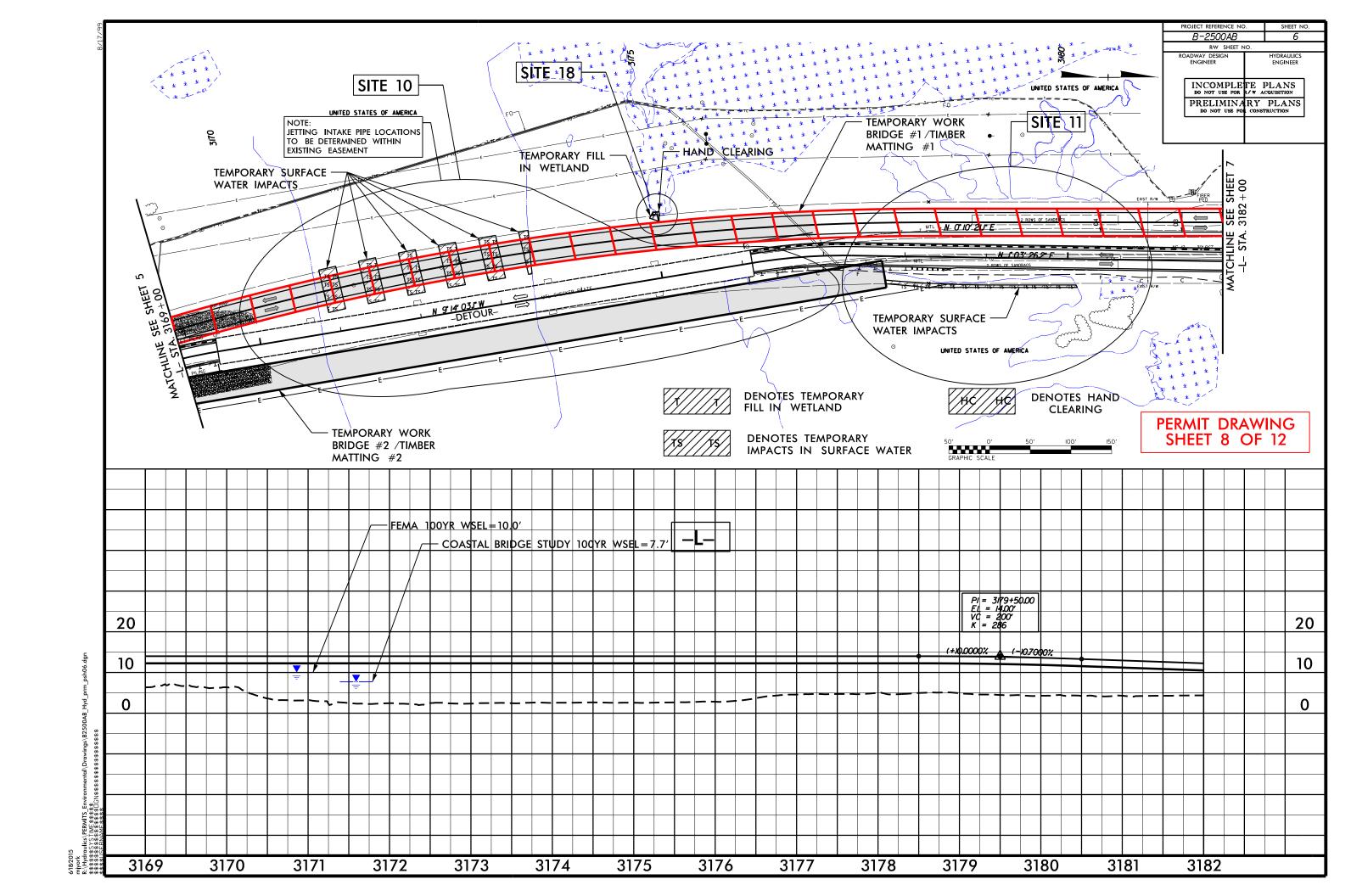
See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Sym SHEET TOTAL NO. SHEETS STATE OF NORTH CAROLINA N.C. **B-2500AB** DIVISION OF HIGHWAYS STATE PROJ. NO. 500AB CONSTR. DARE COUNTY PROJECT PERMIT DRAWING LOCATION: PHASE II, NC-12 SHORT-TERM IMPROVEMENTS AT PEA ISLAND SHEET 1 OF 12 Ä TYPE OF WORK: GRADING, PAVING, DRAINAGE & STRUCTURE **BEGIN** PROJECT WETLAND AND SURFACE WATER IMPACTS PERMIT **PROIEC** SITE 19 — SITE 9 — SITE 10 SITE 18 SITE 7 -VICINITY MAP N.T.S. TIP PAMLICO SOUND END BRIDGE -L- POC STA. 3182 + 50.00 BEGIN BRIDGE
-L- POT STA. 3159+00.00 END PROJECT -L- POT STA. 3195 + 20.00 **BEGIN PROJECT** -L- POT STA. 3141 + 50.00 SITE 8 SITE 11 INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION * RECOMMENDED POSTED 45 MPH HYDRAULICS ENGINEER Prepared in the Office of: **GRAPHIC SCALES** DESIGN DATA PROJECT LENGTH (B-2500A DATA) **DIVISION OF HIGHWAYS** ADT 2012 = 7,3001000 Birch Ridge Dr., Raleigh, NC 27610 ADT 2032 = 10,9002012 STANDARD SPECIFICATIONS K = N/A %LENGTH ROADWAY TIP PROJECT B-2500AB = 0.572 MILES D = N/A %LENGTH STRUCTURE TIP PROJECT B-2500AB = 0.445 MILES GARY LOVERING, PE PROJECT ENGINEER RIGHT OF WAY DATE: T = 6% % ** ROADWAY DESIGN *V = 55 MPH**ENGINEER** TOTAL LENGTH TIP PROJECT B-2500AB = 1.017 MILES PROFILE (HORIZONTAL) ** (TTST 1%, DUAL 5%) LETTING DATE: CHRISTOPHER H. LEE FUNC CLASS = COLLECTOR PROFILE (VERTICAL) **REGIONAL TIER**

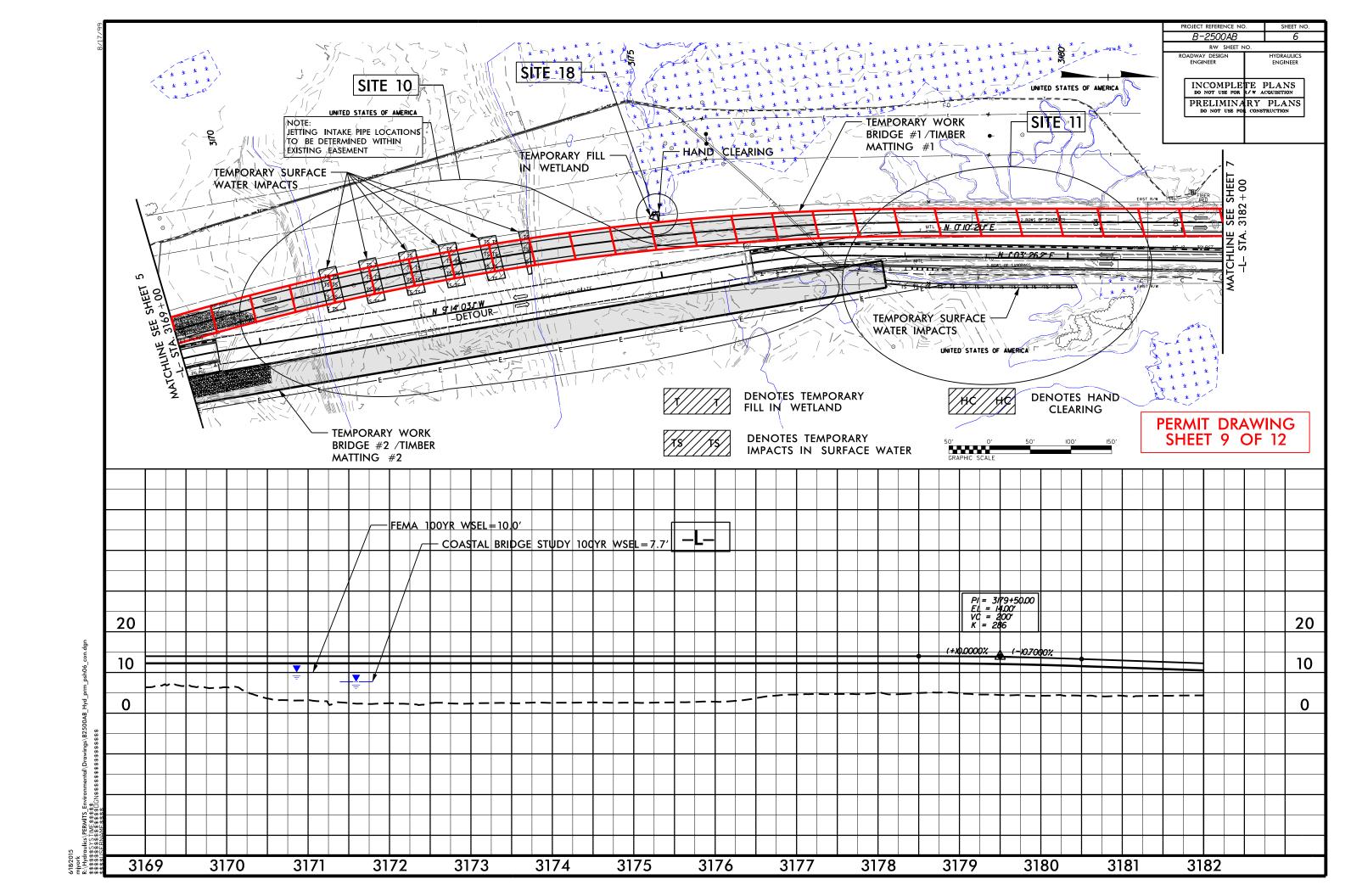


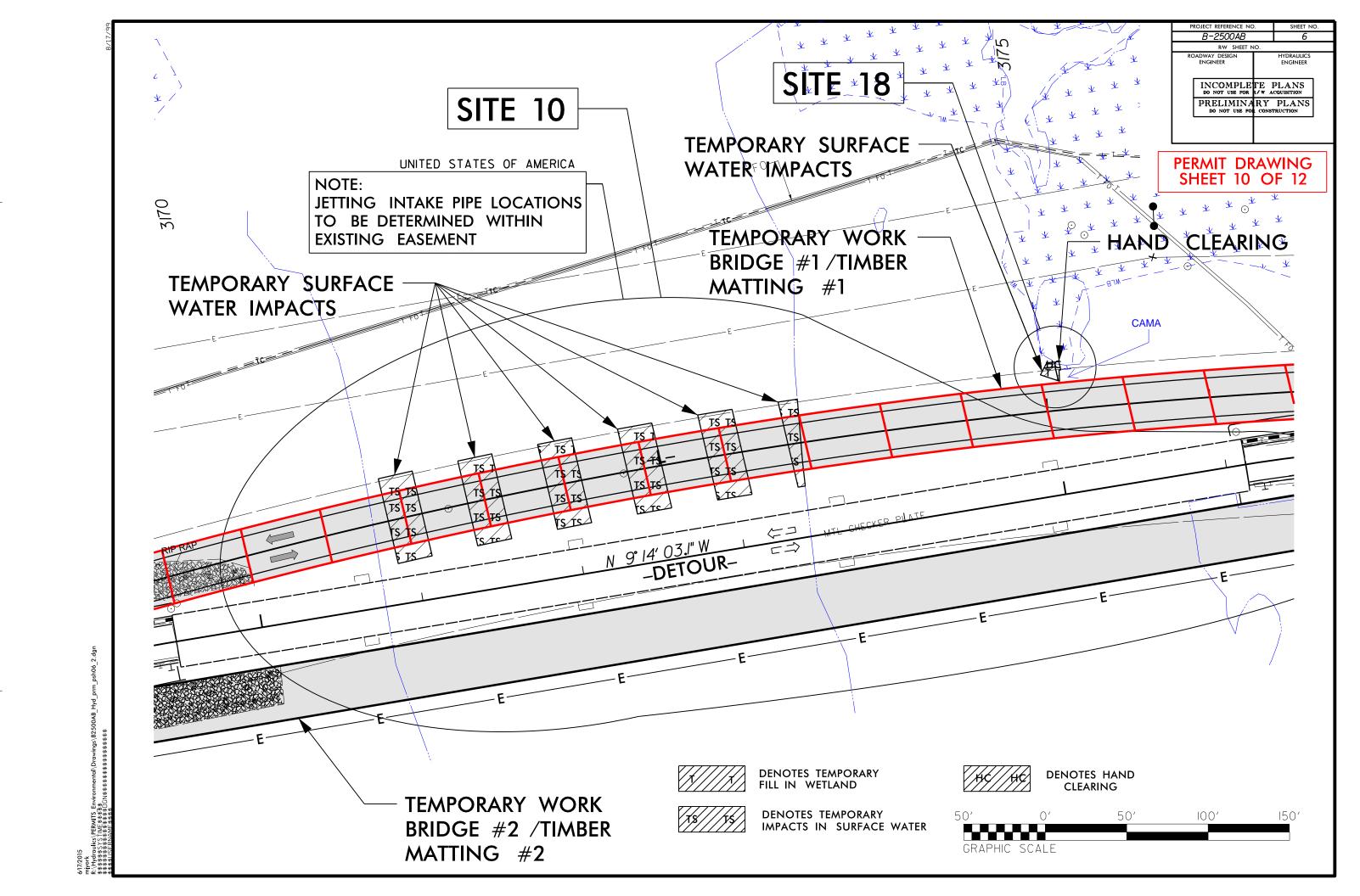












						PERMIT IMP	PACT SUN	IMARY				
								SURFA	SURFACE WATER IMPACTS			
Site	Station	Structure	Permanent Fill In	Temp. Fill In	in	Mechanized Clearing	Hand Clearing in	Permanent SW	Temp. SW	Existing Channel Impacts	Existing Channel Impacts	Natural Stream
No.	(From/To)	Size / Type	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	in Wetlands (ac)	Wetlands (ac)	impacts (ac)	impacts (ac)	Permanent (ft)	Temp. (ft)	Design (ft)
7	-L- 3159+69 to 3163+36	Bent # 3 & Detour Road					< 0.01		0.04			
8	-L- 3163+50 to 3167+72	Detour Road							0.13			
9	-L- 3164+92 to 3166+68	Bent # 12, 13, 14, 15		< 0.01			< 0.01		0.01			
10	-L- 3170+74 to 3177+14	Bent # 24, 25, 26, 27, 28, 29 *Proposed Bridge							0.14			
		Work Bridge #1 *Work Bridge #2 ****Remove Existing Bridge										
		Jetting Intake Pipe										
11	-L- 3177+84 to 3180+22	Detour Road							0.02			
19	-L- 3167+41 to 3168+13	Bent # 17, 18							< 0.01			
18	-L- 3174+98 to 3175+11	Bent # 32		< 0.01			< 0.01					
OTALS*	•			< 0.01			< 0.01		0.35	0	0	0

^{*}Rounded totals are sum of actual impacts

NOTES:

****Remove Existing Bridge (6 Footings @ 130 SF = 780 SF Total Impact)
All wetland impacts occur in CAMA wetlands.

DIVISION OF HIGHWAYS
6/18/15
DARE COUNTY
B-2500AB
32635.1.3
SHEET 12 OF

NC DEPARTMENT OF TRANSPORTATION

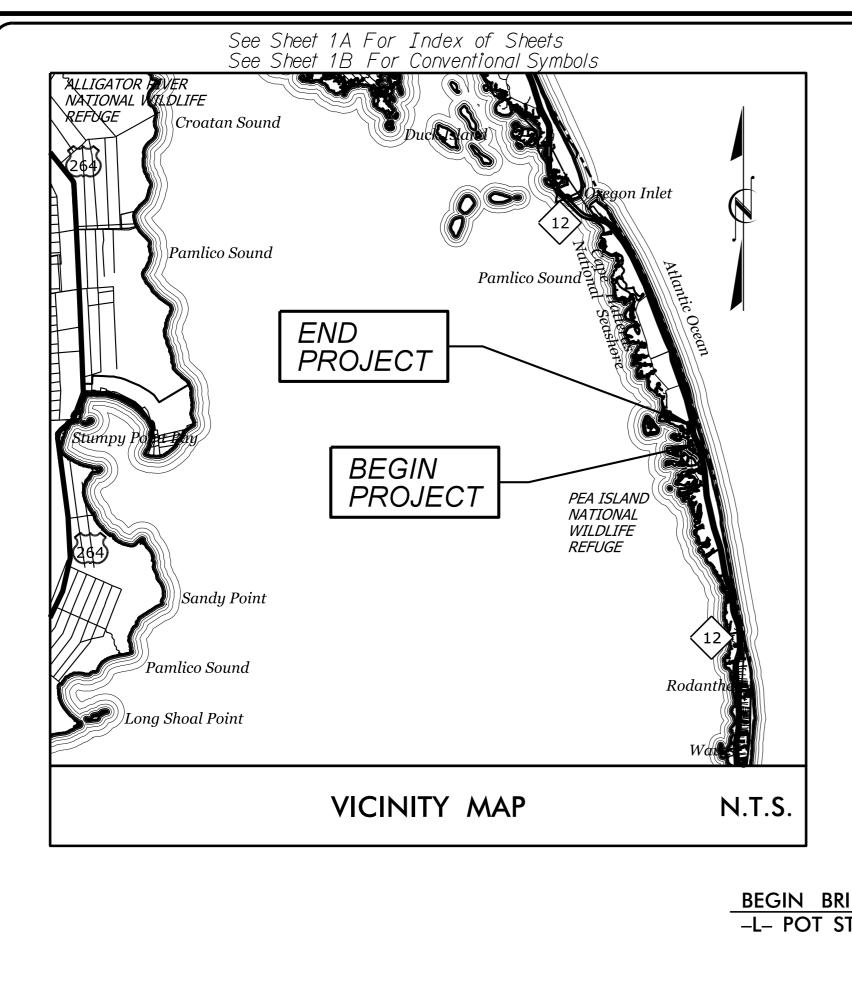
12

Revised 2013 10 24

^{*} Permanent impacts due to the proposed bridge are 89 SF of total impact. (< 0.01 ac for all permanent bents)

^{**} Temporary work bridge # 1 is 950' long and 33.5' wide, between Bent 17 at Station 3167+50 -L- and Bent 36 at Station 3177+00 -L- and will be constructed in the footprint of the proposed bridge.

^{***} Temporary work bridge #2 is about 990' long and 33.5' wide and will be constructed east of the Mabey bridge

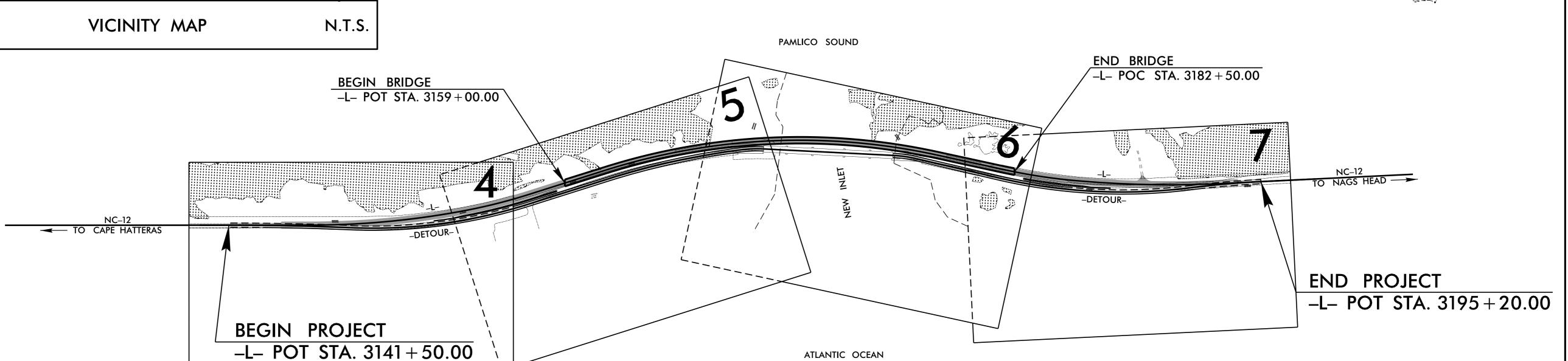


STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DARE COUNTY

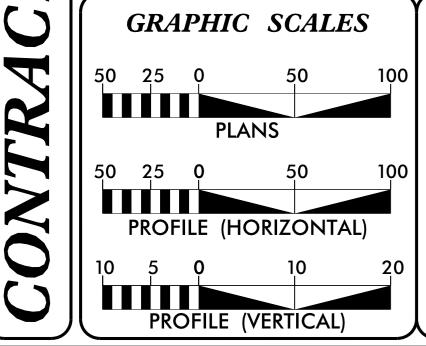
STATE PROJECT REFERENCE NO. STATE B-2500AB STATE PROJ. NO. DESCRIPTION P.E. CONSTR.

LOCATION: PHASE II, NC-12 SHORT-TERM IMPROVEMENTS AT PEA ISLAND TYPE OF WORK: GRADING, PAVING, DRAINAGE & STRUCTURE



* RECOMMENDED POSTED 45 MPH

INCOMPLETE PLANS PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5004

M

DESIGN DATA (B-2500A DATA)ADT 2012 = 7,300

ADT 2032 = 10,900K = N/A %

D = N/A %T = 6% % ** * V = 55 MPH

** (TTST 1%, DUAL 5%) FUNC CLASS = COLLECTOR **REGIONAL TIER**

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-2500AB = 0.572 MILES LENGTH STRUCTURE TIP PROJECT B-2500AB = 0.445 MILES

TOTAL LENGTH TIP PROJECT B-2500AB = 1.017 MILES

Prepared in the Office of: **DIVISION OF HIGHWAYS** 1000 Birch Ridge Dr., Raleigh, NC 27610 2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A

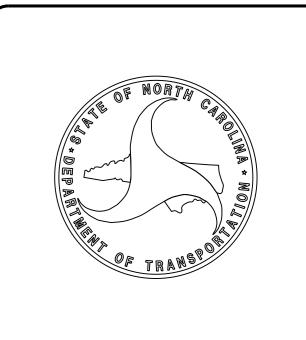
LETTING DATE:

GARY LOVERING, PE PROJECT ENGINEER CHRISTOPHER H. LEE PROJECT DESIGN ENGINEER

SIGNATURE: ROADWAY DESIGN **ENGINEER**

HYDRAULICS ENGINEER

SIGNATURE:



STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

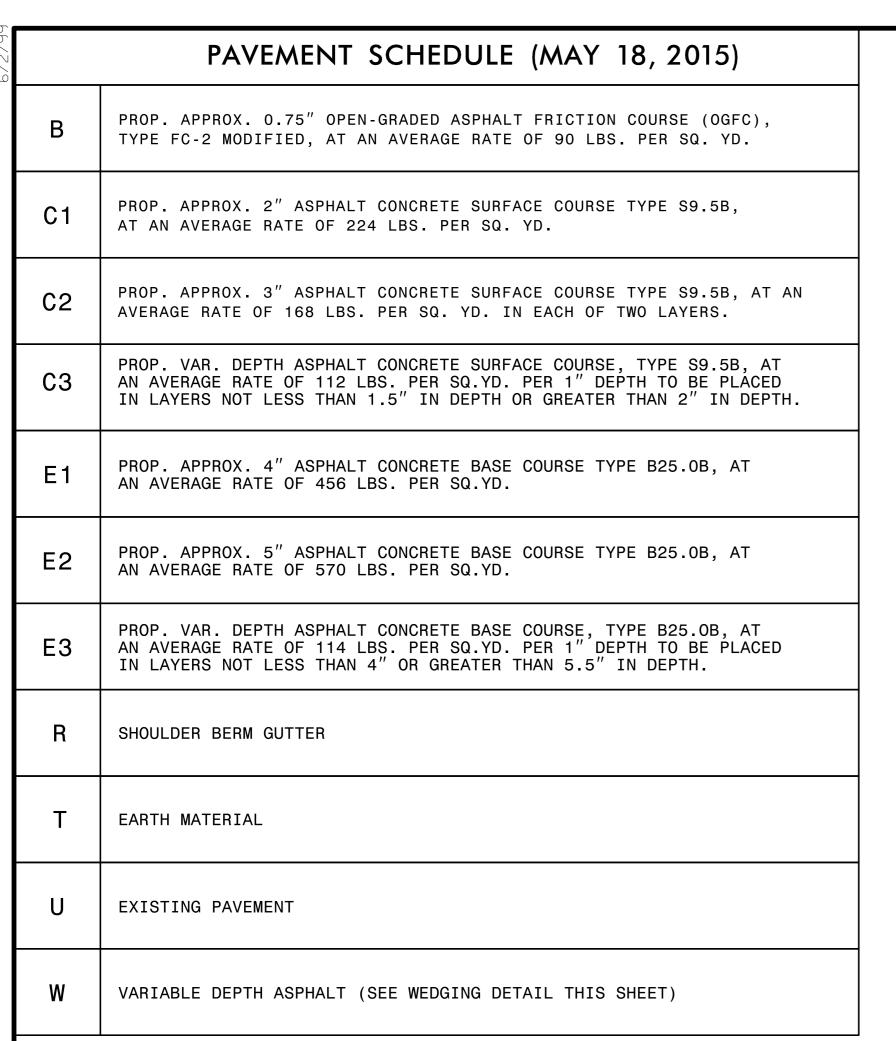
CONVENTIONAL PLAN SHEET SYMBOLS

*S.U.E. = Subsurface Utility Engineering

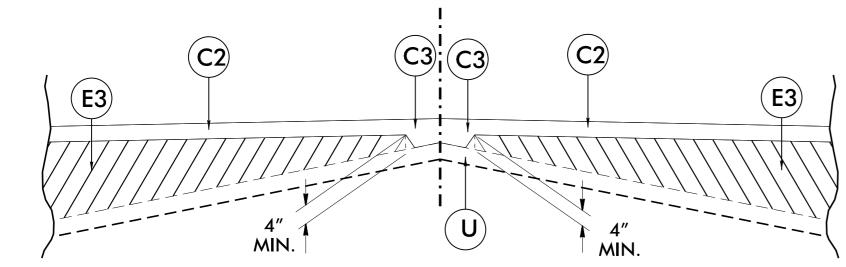
BOUNDARIES AND PROPERTY	Y:	Note: Not to S	Scale *.
State Line			
County Line			
Township Line		RAILROADS:	
City Line		Standard Gauge ————————————————————————————————————	CSX TRANSPORTATION
Reservation Line		RR Signal Milepost	MILEPOST 35
Property Line		Switch —	SWITCH
Existing Iron Pin		RR Abandoned	
Property Corner —		RR Dismantled	
Property Monument		RIGHT OF WAY:	
Parcel/Sequence Number ————		Baseline Control Point	\Diamond
Existing Fence Line	_	Existing Right of Way Marker	\triangle
Proposed Woven Wire Fence		Existing Right of Way Line	
Proposed Chain Link Fence		Proposed Right of Way Line	
Proposed Barbed Wire Fence		Proposed Right of Way Line with	<u></u>
Existing Wetland Boundary		Iron Pin and Cap Marker Proposed Right of Way Line with	
Proposed Wetland Boundary		Concrete or Granite R/W Marker	
Existing Endangered Animal Boundary —		Proposed Control of Access Line with	
Existing Endangered Plant Boundary		Concrete C/A Marker	
Existing Historic Property Boundary		Existing Control of Access	
Known Contamination Area: Soil		Proposed Control of Access ————	
Potential Contamination Area: Soil		Existing Easement Line ————————————————————————————————————	
Known Contamination Area: Water		Proposed Temporary Construction Easement –	
Potential Contamination Area: Water		Proposed Temporary Drainage Easement ——	
Contaminated Site: Known or Potential —		Proposed Permanent Drainage Easement ——	
BUILDINGS AND OTHER CUI		Proposed Permanent Drainage / Utility Easemer	nt —— DUE——
	—	Proposed Permanent Utility Easement ———	PUE
Gas Pump Vent or U/G Tank Cap	0	Proposed Temporary Utility Easement ———	——— TUE ———
Sign ————————————————————————————————————		Proposed Aerial Utility Easement ————	——— AUE———
		Proposed Permanent Easement with	\Diamond
Small Mine	—	Iron Pin and Cap Marker	*
Foundation ————————————————————————————————————		ROADS AND RELATED FEATURA	
Area Outline		Existing Edge of Pavement	
Cemetery	<u> </u>	Existing Curb	
Building —		Proposed Slope Stakes Cut	
School		Proposed Slope Stakes Fill —————	F
Church		Proposed Curb Ramp	CR
Dam —		Existing Metal Guardrail —————	
HYDROLOGY:		Proposed Guardrail —————	<u> </u>
Stream or Body of Water —————		Existing Cable Guiderail ————	
Hydro, Pool or Reservoir		Proposed Cable Guiderail	
Jurisdictional Stream		Equality Symbol	•
Buffer Zone 1		Pavement Removal ————	
Buffer Zone 2		VEGETATION:	
Flow Arrow		Single Tree	£
Disappearing Stream —		Single Shrub	₿
Spring —		Hedge ————	
Wetland		Woods Line	
Proposed Lateral, Tail, Head Ditch	< → FLOW		
False Sump ——————	-		

Orchard ————	순 순 순 순
Vineyard ————	Vineyard
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert ————	CONC
Bridge Wing Wall, Head Wall and End Wall -	CONC WW (
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert —	
Footbridge	>
Drainage Box: Catch Basin, DI or JB	СВ
Paved Ditch Gutter	
Storm Sewer Manhole —	(\$)
Storm Sewer —	s
UTILITIES:	
POWER: Existing Power Pole ————————————————————————————————————	_
Proposed Power Pole —	6
Existing Joint Use Pole	1
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	\boxtimes
Power Line Tower Power Transformer	
U/G Power Cable Hand Hole H_Frame Pole	
	•
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	
TELEPHONE:	
Existing Telephone Pole	-•-
Proposed Telephone Pole	-0-
Telephone Manhole	\bigcirc
Telephone Pedestal ————————————————————————————————————	
Telephone Cell Tower	, J ,
U/G Telephone Cable Hand Hole ———	H _H
U/G Telephone Cable LOS B (S.U.E.*)	T
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

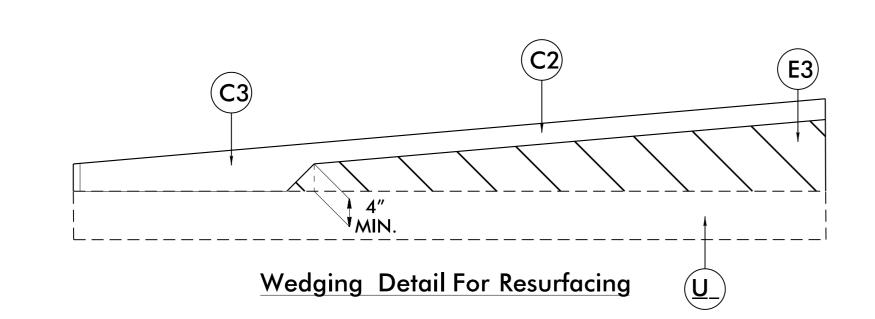
WATER: Water Manhole — Water Meter — Water Valve — Water Hydrant — U/G Water Line LOS B (S.U.E*) — U/G Water Line LOS D (S.U.E*) —— Above Ground Water Line -TV Pedestal TV Tower $-\!-\!-$ U/G TV Cable Hand Hole —— U/G TV Cable LOS B (S.U.E.*) ——— U/G TV Cable LOS D (S.U.E.*) ——— U/G Fiber Optic Cable LOS C (S.U.E.*) — — — — TV FO— — U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO TV FO AS: Gas Valve — Gas Meter $\,-\,$ U/G Gas Line LOS B (S.U.E.*) —— U/G Gas Line LOS C (S.U.E.*) U/G Gas Line LOS D (S.U.E.*)—— A/G Gas Above Ground Gas Line ANITARY SEWER: Sanitary Sewer Manhole — Sanitary Sewer Cleanout ————— U/G Sanitary Sewer Line ————ss——— A/G Sanitary Sewer Above Ground Sanitary Sewer ———— SS Forced Main Line LOS D (S.U.E.*) — FSS ISCELLANEOUS: Jtility Pole ————— Jtility Located Object —————— Jtility Unknown U/G Line LOS B (S.U.E.*) ———2011——— U/G Tank; Water, Gas, Oil —————— Jnderground Storage Tank, Approx. Loc. —— A/G Tank; Water, Gas, Oil —————— Geoenvironmental Boring —————— U/G Test Hole LOS A (S.U.E.*) Abandoned According to Utility Records — **AATUR** End of Information — E.O.I.

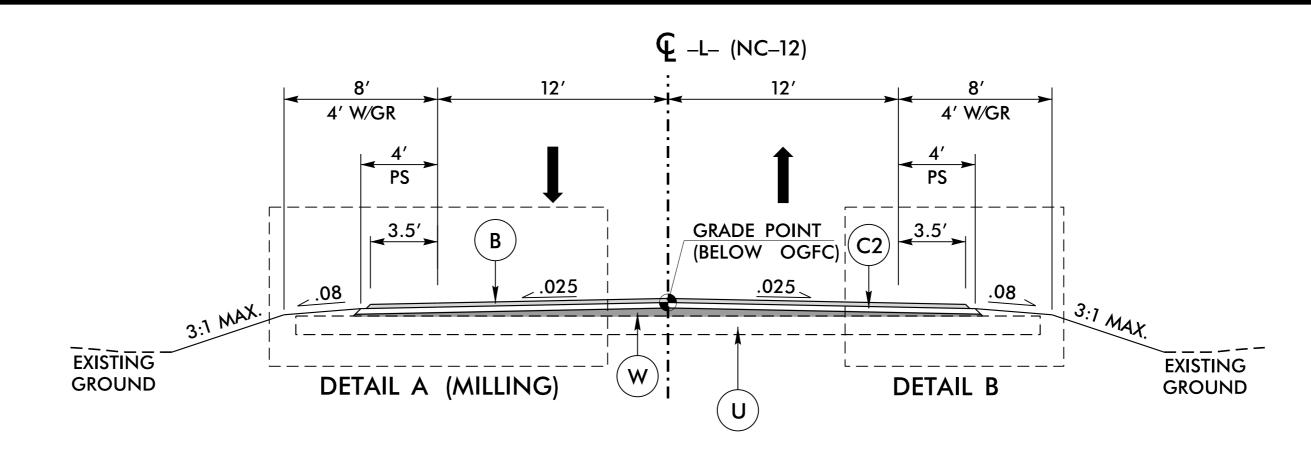






Detail Showing Method of Wedging

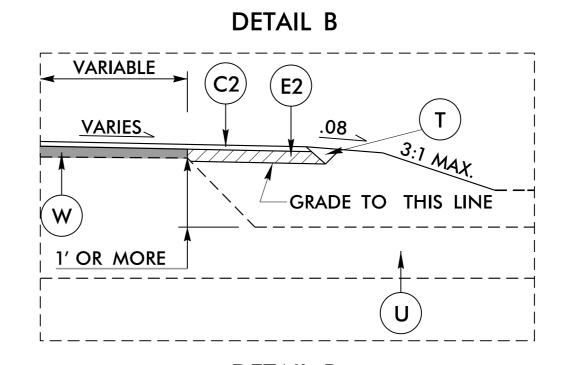




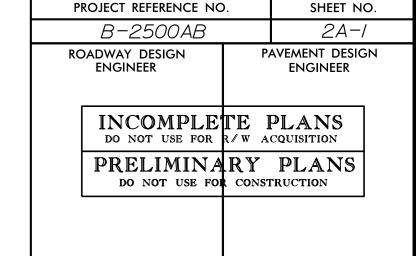
TYPICAL SECTION NO. 1

DETAIL A (MILLING) **VARIABLE** (c2)**YARIES** MILLING

DETAIL A: -L- STA. 3144+20.00 TO STA. 3149+50.00 LT



DETAIL B: -L- STA. 3152 + 00 TO STA. 3153 + 50 RT -L- STA. 3186+00 TO STA. 3188+50 RT



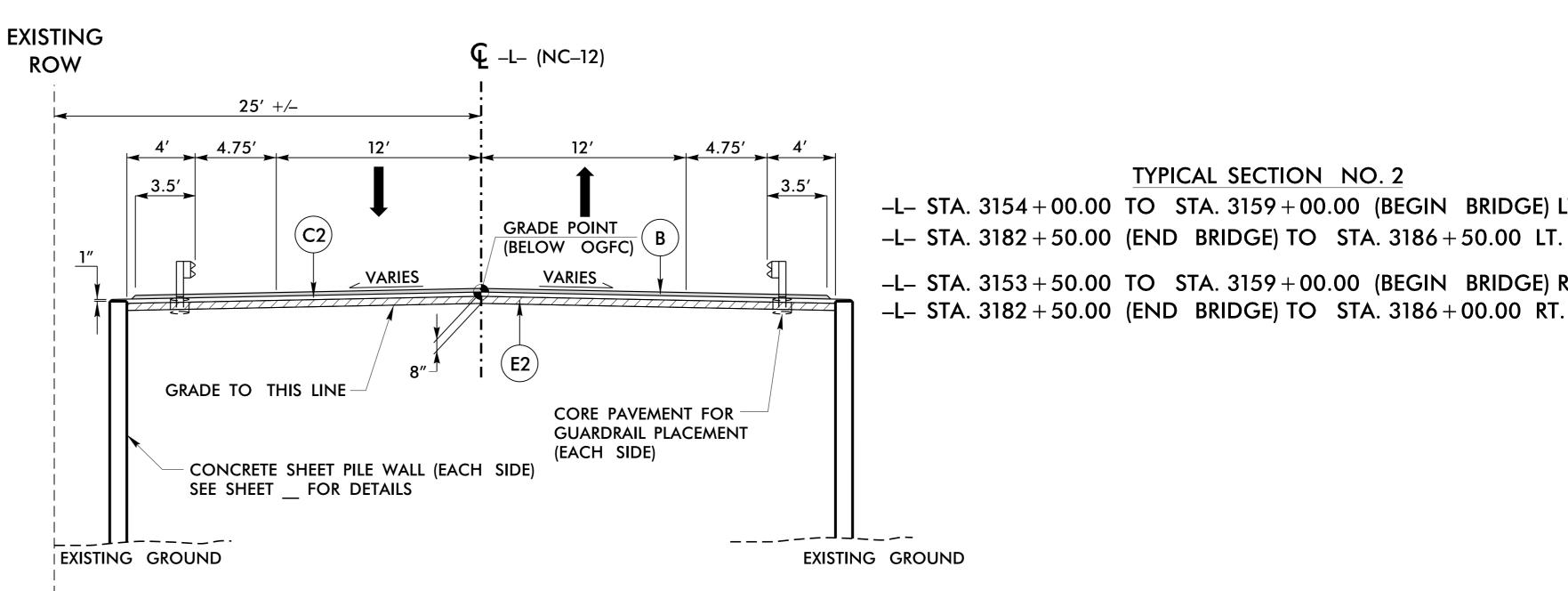
PROJECT REFERENCE NO.

TYPICAL SECTION NO. 1

-L- STA. 3149 + 50.00 TO STA. 3154 + 00.00 LT -L- STA. 3186 + 50.00 TO STA. 3194 + 00.00 LT

-L- STA. 3144+00.00 TO STA. 3153+50.00 RT

-L- STA. 3186 + 00.00 TO STA. 3194 + 00.00 RT



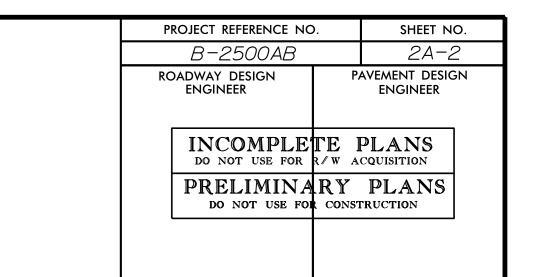
TYPICAL SECTION NO. 2

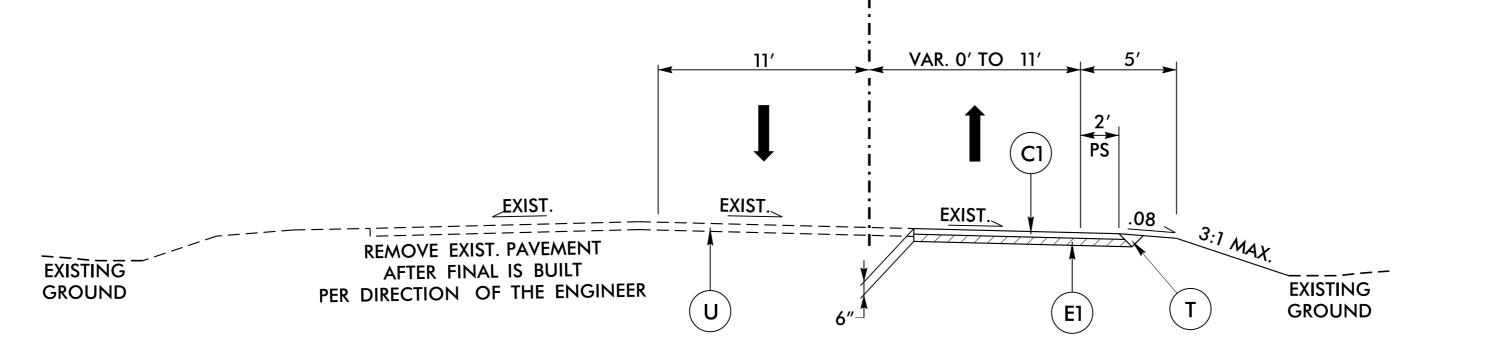
TYPICAL SECTION NO. 2

-L- STA. 3154+00.00 TO STA. 3159+00.00 (BEGIN BRIDGE) LT

-L- STA. 3153 + 50.00 TO STA. 3159 + 00.00 (BEGIN BRIDGE) RT

-L- STA. 3182 + 50.00 (END BRIDGE) TO STA. 3186 + 00.00 RT.

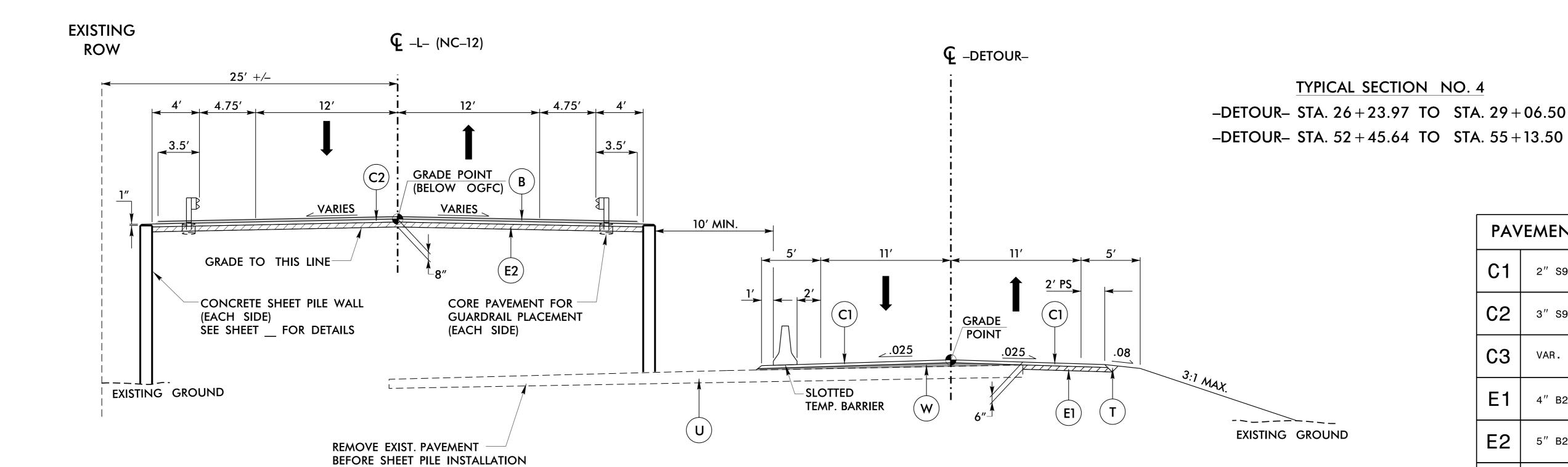




TYPICAL SECTION NO. 3 -DETOUR- STA. 11 + 57.38 TO STA. 26 + 23.97 -DETOUR- STA. 55 + 13.50 TO STA. 65 + 22.38

TYPICAL SECTION NO. 3

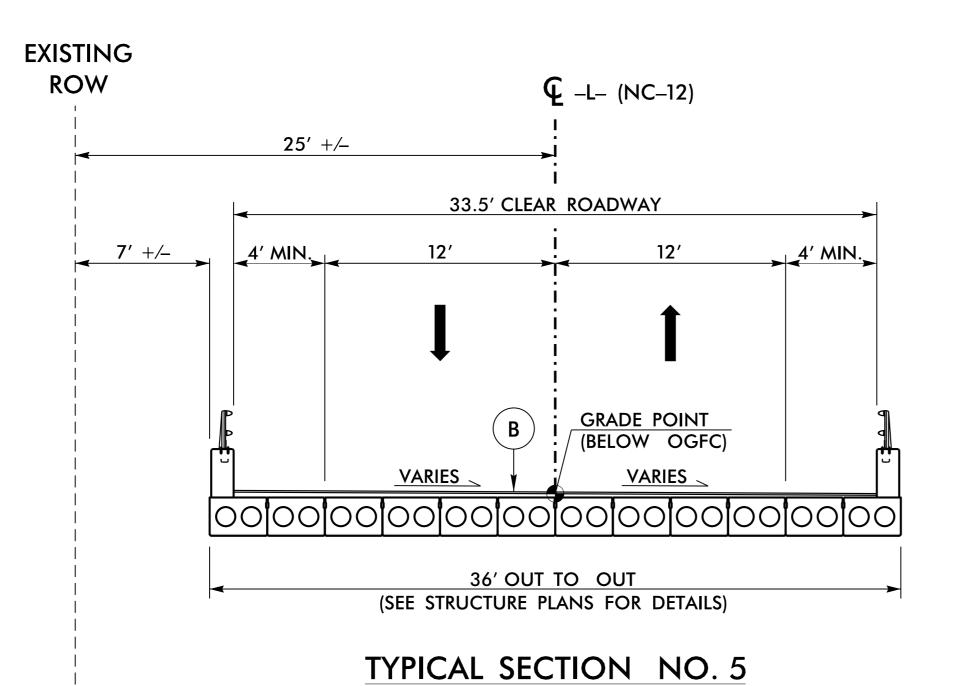
 $oldsymbol{\mathbb{Q}}$ -detour-

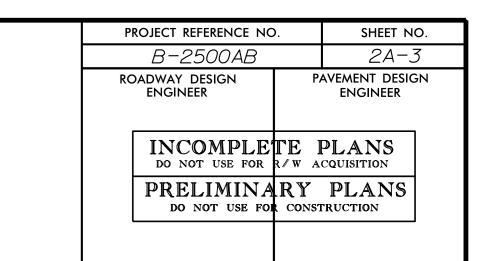


TYPICAL SECTION NO. 4

PAV	EMENT SCHEDULE		
C1	2" S9.5B		
C2	3" S9.5B		
C3	VAR. S9.5B		
E1	4" B25.0B		
E2	5" B25.0B		
E3	VAR. B25.0B		
R	SHOULDER BERM GUTTER		
Т	EARTH MATERIAL		
U	EXISTING PAVEMENT		
W	WEDGING (SEE WEDGING DETAILS SHEET 2A-1)		

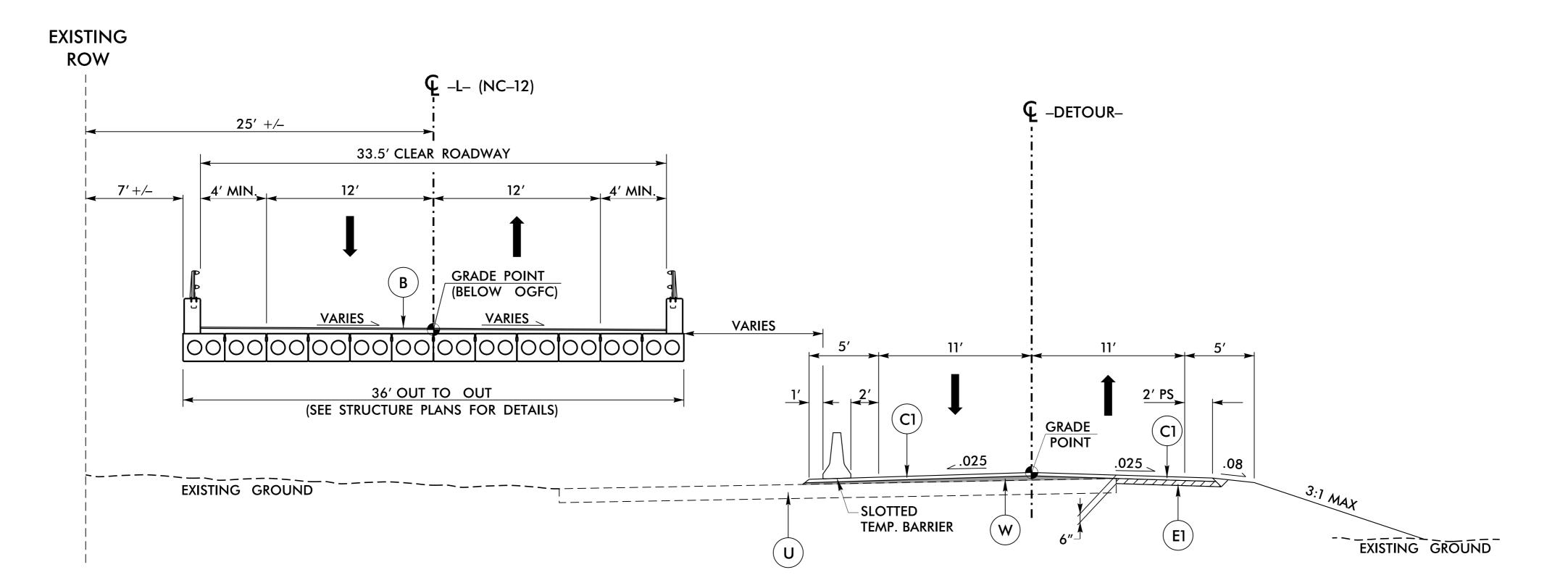
1:1 UNLESS SHOWN OTHERWISE.





BRIDGE TYPICAL SECTION

-L- STA. 3159 + 00.00 (BEGIN BRIDGE) TO STA. 3182 + 50.00 (END BRIDGE)



TYPICAL SECTION NO. 6

TYPICAL SECTION NO. 6

- -DETOUR- STA. 29 + 06.50 TO STA. 39 + 46.67 (BEGIN EXIST. BRIDGE)
- -DETOUR- STA. 46+11.90 (END EXIST. BRIDGE) TO STA. 52+45.64

PAV	'EMENT SCHEDULE		
C1	2" S9.5B		
C2	3" S9.5B		
C3	VAR. S9.5B		
E1	4" B25.0B		
E2	5" B25.0B		
E3	VAR. B25.0B		
R	SHOULDER BERM GUTTER		
Т	EARTH MATERIAL		
U	EXISTING PAVEMENT		
W	WEDGING (SEE WEDGING DETAILS SHEET 2A-1)		

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

