

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT McCrory Governor NICHOLAS J. TENNYSON

October 15, 2015

U.S. Army Corps of Engineers Regulatory Field Office PO Box 1000 Washington, NC 27889-1000 N.C. Division of Coastal Management

1367 US 17 South

Elizabeth City, NC 27909

ATTN: Tracey Wheeler

ATTN:

Mr. Greg Daisey

NCDOT Coordinator

NCDOT Coordinator

Subject: Request for Modification of the Individual Section 404 Permit, Individual

Water Quality Certification, and CAMA Major Development Permit for the Proposed Replacement of Bridge 11 over Oregon Inlet on NC 12 in Dare County, North Carolina; TIP Project B-2500 (Phase I); Federal Aid Projects BRNHF-0012

(48) and BRNHF-0012 (36); Debit \$570 from WBS Element: 32635.1.4

References:

Section 404 Individual Permit, U.S. Army Corps of Engineers Action ID

SAW-1993-03077, issued August 14, 2013

Section 401 Individual Water Quality Certification, NCDWQ Project No.

20120629, issued September 7, 2012

CAMA Major Development Permit, NCDCM Permit No. 106-12, issued

September 19, 2012

The North Carolina Department of Transportation (NCDOT) requests a modification of the above referenced permits due to revised utility plans. The utility company (Cape Hatteras Electric, or CHEC) is preparing to move underground and overhead electric lines. Originally this was going to be accomplished via an open cut trench on the south end of the project (Site 4). Utility plans have now been revised to directionally bore the underground line work rather than open cut, and plan to access the site from NC 12 roadside. This will reduce the temporary impact footprint but will increase the need for hand clearing of wetlands (for working off of timber mats) around their work area. Additionally, boring rather than trenching will reduce the overall duration of the work, and the duration is a very important factor in being able to perform this work while CHEC provides electricity to Hatteras Island via backup generators.

Regulatory Approvals

<u>Section 404 Permit</u>: NCDOT requests that the U.S. Army Corps of Engineers (USACE) review this permit modification request and issue a modification for the Individual Section 404 Permit.

<u>Section 401 Permit</u>: NCDOT requests that the N.C. Division of Water Resources review this permit modification request and issue a modification for the Individual 401 Water Quality Certification.

<u>CAMA Permit</u>: NCDOT requests that the N.C. Division of Coastal Management review this permit modification request and issue a modification for the CAMA Major Development Permit.

If you should have any questions regarding this request, please contact Michael Turchy at (919) 707-6157 or maturchy@ncdot.gov. A copy of this request will be posted at: https://connect.ncdot.gov/resources/Environmental/Pages

Sincerely,

Richard Hancock, P.E., Manager

Project Development and Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List

PROJECT REFERENCE NO. SHEET NO. DENOTES FILL IN WETLAND B-2500 (PHASE I) SAV LEGEND RW SHEET NO HYDRAULICS ENGINEER ROADWAY DESIGN ENGINEER HOMOGENOUS PATCHY SPARSE DENOTES MECHANIZED CLEARING Open with little or no growth. Boundary defined by edges of other polygons. DENOTES TEMPORARY FILL IN WETLAND PCL Civil Constructors, Inc. 801 Corporate Center Drive, Suite 130 Raleigh, NC 27607 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 DENOTES HAND CLEARING SITE 3 WORK TRESTLE/ DOCK -BW - POT Sta. 7+73.35 = -L- POT Sta. 40+99.77 -L- PT Sta. 35+56.07 Š. o N SITE . SEE SHEET , SHEET SITE US GOVERNMENT SEE , 00 + 90 30 € BENT 5 + 43 STA. STA. NC 12 246BST 25 MATCHLINE MATCHLINE SITE 404 WETLAND DB 19 PG 451 GRASS US GOVERNMENT -YOI- POT Sta. 26+43.79 =-DET- POT Sta. 26+43.79 GRASS ISL 10+00 SITE 3 <u>-Y01- PT Sta. 19+57.27 =</u> -DET - PT Sta. 19+57.27 404 WETLAND BOARDWALK BENT 6 MATCHLINE, SEE SHEET NO. 19 ROADWAY CUT/FILL TRANSITION -BW - "P⊦"Sta. II+35.20 **REVISED 10/15/2015** PERMIT DRAWINGS WBL SHEET_7_OF __45_ SEE SHEET NO. 20 FOR -L- PROFILE. SEE SHEET NO. 30 FOR -BW- PROFILE. SEE SHEET NO. 31 FOR -Y01- PROFILE. **BOARDWALK**

PROJECT REFERENCE NO. SHEET NO. B-2500 (PHASE I) SAV LEGEND RW SHEET NO HYDRAULICS ENGINEER ROADWAY DESIGN ENGINEER HOMOGENOUS PATCHY SPARSE DENOTES TEMPORARY FILL IN WETLAND PCL Civil Constructors, Inc. 801 Corporate Center Drive, Suite 130 Raleigh, NC 27607 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 DENOTES HAND CLEARING SITE 3 WORK TRESTLE/ DOCK -BW- POT Sta. 7+73.35 = -L- POT Sta. 40+99.77 <u>-L- PT Sta. 35+56.07</u> Š. --ms-----NO -DECK -DRAINS-ms----± FROM BEGIN BRIDGE TO ±34+77 -Lo N SITE . SEE SHEET SHEET SITE US GOVERNMENT SEE , 00 + 00 30 € BENT 5 + 43 STA. STA. NC 12 24 BST 25 MATCHLINE MATCHLINE SITE 404 WETLAND US GOVERNMEN -YOI- POT Sta. 26+43.79 =-DET- POT Sta. 26+43.79 GRASS ISL 10+00 SITE 3 404 WETLAND -Y01- PT Sta. 19+57.27 = -DET- PT Sta. 19+57.27 BOARDWALK BENT 6 MATCHLINE, SEE SHEET NO. 19 ROADWAY CUT/FILL TRANSITION -BW - PK Stg./11+35.20 **REVISED 10/15/2015** PERMIT DRAWINGS WBL SHEET_ 8 OF _ 45 SEE SHEET NO. 20 FOR _L_ PROFILE. SEE SHEET NO. 30 FOR _BW_ PROFILE. SEE SHEET NO. 31 FOR _Y01_ PROFILE. **BOARDWALK**

	WETLAND PERMIT IMPACT SUMMARY												
						SURFACE WATER IMPACTS							
Site No.	Station (From/To)	Structure Size / Type	Wetland Restoration	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- 19+96 TO 21+66 LT	Roadway						0.01					
2	-Y01- 12+49 TO 21+80 RT	Roadway		0.32		0.01		0.12					
3	-L- 41+86 TO 44+32 LT	Work Trestle/Dock			***					***			
	-BW- 10+58 TO 10+85	Boardwalk		***				0.01					
****4	-L- 39+61 TO 40+57 LT	Utility Relocation		0.01	0.05			0.22					
*5	-L- 38+36 TO 176+68	Prop. Bridge Work Trestle		***	0.65		0.09		***	0.93			
		Temp. Platform								***			
6	-L- 56+40 TO 172+10 RT	Exist. Bridge Demo			*					***			
7	-L- 191+20 TO 197+80	Roadway		0.06		0.01		0.13					
	Casting Yard	Trestle								0.01			
TOTALS:	<u> </u>			0.39	0.70	0.02	0.09	0.49	0.00	0.94	0	0	0

^{*} Permanent surface water and permanent fill in wetland impacts were calculated based on the type of foundation. If the foundation has a pile cap then the cap would be in the water ~ 1.0' based on the mean high water elevation, so the cap dimensions were used instead of the individual pile sizes (giving us a larger footprint). If the foundation has 54° circular piles with no pile cap then the pile surface area was used to calculate the impact, plus a small area immediately around the pile.

^{****} The underground utility relocation going to be installed by bore and jack and the temporary weland impacts are for the bore pit needed to install the utility lines' and the footprint of the temporary riser poles. The permanent fill in wetland hatching represents the permanent riser pole structure footprint.

CAMA vs 404 Wetland Impacts										
Mech. Clearing in CAMA Wetlands = 0.01 AC.	*** Bent Impacts									
Mech. Clearing in 404 Wetlands = 0.08 AC.	Boardwalk	Work Trestle/Dock	Proposed Bridge	Work Trestle/Platform	Existing Bridge Demo					
Perm. Fill in CAMA Wetlands = 0.01 AC	Perm. Fill in 404 Wetlands = <0.01 AC	Temp. SW Impacts = <0.01 AC	Perm. Fill in CAMA Wetlands = 0.01 AC	Temp. Fill in CAMA Wetlands = 0.02 AC	Temp. Fill in CAMA Wetlands = 0.31 AC					
Perm. Fill in 404 Wetlands = 0.38 AC		Temp. Wetland = <0.01 AC	Perm. SW Impacts = 1.00 AC	Temp. SW Impacts = 0.04 AC	Temp. SW Impacts = 2.45 AC					
Perm. Excavation in 404 Wetlands = 0.02 AC		•	·							

REVISED 10/15/2015

NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

DARE COUNTY
WBS - 32635.1.4 and 32635.3.GV3
B-2500 (Phase I)

Replacement of Herbert C. Bonner Bridge Across Oregon Inlet from Hatteras Island to Bodie Island $\begin{array}{ccc} \text{REET} & 45 & \text{OF} & 45 \end{array}$

^{**}The impacts for the removal of the existing bridge were calculated using the pile window (the extent that the piles project into the water) and not individual pile sizes. The demolition/pile removal in wetlands was considered "Temporary Fill" because "Temporary Excavation" is not a category.

^{***} Impacts for the temporary work trestle, work bridge, and work platform were calculated as pile impacts. The piles being proposed are 24* circular piles. The work trestle, platforms, and bridge all require two piles per span and spans will be spaced every 32 feet apart. The boardwalk impacts are calculated as the entire footprint of the 10' wide boardwalk.

