



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 26, 2012

MEMORANDUM TO: Mr. Greg Burns, P.E.
Division 6 Engineer

FROM: Philip S. Harris, III, P.E., Manager
Natural Environment Section
Project Development and Environmental Analysis Unit

SUBJECT: Bladen County, Replacement of Bridge Nos. 12, 18, and 42 on
NC 11 over Cape Fear River and overflows; Federal Aid Project
No. BRSTP-0011(9); WBS No.33395.1.1; **TIP Project B-4028.**

A handwritten signature in black ink, appearing to read "E. P. Harris", written over the typed name of Philip S. Harris, III.

Attached are the U.S. Army Corps of Engineers Section 404 Individual Permit, Section 404 Individual Permit Modification, and the N.C. Division of Water Quality Section 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at:
<http://www.ncdot.gov/doh/preconstruct/pe/neu/permit.html>

cc: w/o attachment (see website for attachments):

Mr. Randy Garris, P.E. State Contract Officer
Mr. James J. Rerko, Division Environmental Officer
Mr. Majed Alghandour, P.E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design Unit
Mr. Dewayne Sykes, P.E. Utilities Unit
Mr. Art McMillan, P.E., Hydraulics Unit
Mr. Tom Koch, P.E., Structure Design Unit
Mr. Mark Staley, Roadside Environmental Unit
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Mike Robinson, P.E., State Bridge Construction Engineer
Mr. Bill Goodwin, P.E., PDEA Bridge Section Head
Mr. Clarence Coleman, FHWA
Ms. Beth Harmon, EEP
Mr. Phillip Ayscue, Office of Inspector General

PROJECT COMMITMENTS

T.I.P. No. B-4028
Bridge No.'s 12, 18 and 42
Over Cape Fear River and overflows on NC 11 Bladen County
Federal Aid Project No. BRSTP-0011 (9)
State Project No. 8.1421401
W.B.S. No. 33395.1.1

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

PDEA Human Environment Section

Bridge No. 12 has been determined eligible for the National Register and removal will be considered an Adverse Effect. A Memorandum of Agreement (MoA) will be prepared & implemented to document the federal agencies resolution of adverse effect. The MoA will be included in the Finding of No Significant Impact (FoNSI).

Division Resident Engineer's Office

There is a Geodetic survey marker on existing Bridge No. 12 that will be impacted by this project. The NC Geodetic Survey will be contacted one month prior to the start of construction.

COMMITMENTS FROM PERMITTING

Division 6 Construction/Roadside Environmental Unit

Stream Crossing Guidelines for Anadromous Fish will be implemented in the design and construction of this project

Division 6 Construction

The permittee shall advise the Corps Navigation Branch in writing 30 days prior to beginning the work by this permit

All fill from the abandoned causeway shall be removed and the area graded down to the elevation of the adjacent undisturbed natural ground

A moratorium on in-water construction will be in place from February 15 to June 30 of any given year for anadromous fish and shortnose sturgeon; this moratorium includes adjacent inundated wetlands with an active connection to the Cape Fear River.

This condition is clarified in the attached Section 404 Modification from the USACE.

Division 6 Construction/Utilities Unit

The lowest point of the 115 kilovolt power lines shall be installed at least 20 ft. above the bridge clearance as established by the U.S. Coast Guard. The clearances are based on the low point of the line under conditions which produce the greatest sag, taking into consideration temperature, load, wind, length, or span, and type of support as outlined in the National Electrical Safety Code.

All telephone and telecommunication lines shall be directionally bored under all jurisdictional waters and wetlands. All utility lines will be bored to a depth of 20 ft. below the current bed of the Cape Fear River.

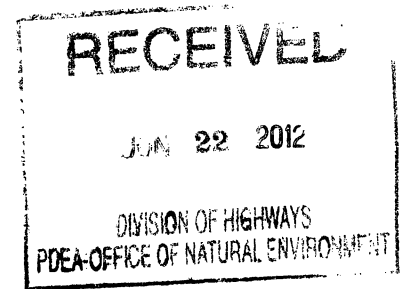
The permittee shall contact the Corps if the material pumped for the directional drilling operation leaches to the surface and into waters or wetlands.



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

June 19, 2012



Regulatory Division

Subject: Action ID No. SAW-2002-00645, TIP No. B-4028, Bladen County, North Carolina.

Dr. Gregory J. Thorpe, Ph.D.
Environmental Management Director
Project Development & Environmental Analysis
1548 Mail Service Center
Raleigh, NC 27699-1598

Dear Dr. Thorpe:

I am responding to your request dated June 19, 2012 for modification to the start date of the in-water work moratorium described in special condition 23 of the Department of the Army (DA) permit issued for the above referenced project on May 16, 2012. The moratorium start date would be changed from February 1 to February 15.

I have determined that the proposed modification described above is not contrary to the public interest and therefore, the DA permit expiration date is hereby modified. The permit modification is as follows:

SPECIAL CONDITION #23

In order to protect anadromous fish and the short-nose sturgeon, a moratorium on in-water construction will be in place from February 15-June 30.

Please note that all unmodified terms and conditions of your original Department of the Army permit shall remain in effect.

Should you have any questions, please contact Mr. Ronnie Smith, Wilmington Field Office, Regulatory Division, at telephone (910) 251-4829.

Sincerely,



Steven A. Baker
Colonel, U.S. Army
District Commander

Copies Furnished:

Mr. Chris Rivenbark
North Carolina Department of Transportation
Project Development and Analysis Branch
1548 Mail Service Center
Raleigh, NC 27699-1598

Mr. Greg Burns, PE
Division Engineer, Division 6
North Carolina Department of Transportation
Post Office Box 1150
Fayetteville, NC 28302

Mr. Jim Rerko
Division Environmental Officer, Division 6
North Carolina Department of Transportation
Post Office Box 1150
Fayetteville, NC 28302

Mr. Mason Herndon
NCDENR-DWQ
225 Green Street, Suite 214
Fayetteville, NC 28301-5094

Mr. Travis W. Wilson
NC Wildlife Resource Commission
1142 I-85 Service Rd.
Creedmoor, NC 27522

Mr. Gary Jordan
U.S. Fish and Wildlife Service
Raleigh Field Office
Post Office Box 33726
Raleigh, NC 27636-3726

Mr. Chris Militcher
NEPA Section
U.S. Environmental Protection Agency - Region IV
61 Forsyth Street
Atlanta, GA 30303

Ms. Renee Gledhill-Early
North Carolina Department of Cultural Resources
4617 Mail Service Center
Raleigh, NC 27699

Electronic Copies Furnished:
CESAW-RG-L/Smith
CESAW-RG-L/Beter
CESAW-RG/McLendon



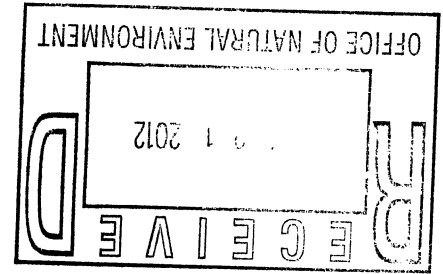
REPLY TO
ATTENTION OF:

Regulatory Division

Action ID SAW-2002-00645

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

16 May 2012



North Carolina Department of Transportation
c/o Dr. Gregory J. Thorpe, PhD, Manager
Project Development and Environmental Analysis Branch
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

Enclosed is a Department of the Army permit authorizing discharge dredged and or fill material into 1.73 acres of open waters and 1.12 acres of wetlands to facilitate the replacement of bridges 12, 18 and 42 over the Cape Fear River along NC Highway 11, east of East Arcadia, Bladen County, North Carolina. The Corps is issuing this permit in response to your written request of November 7, 2011, and the ensuing administrative record.

Any deviation in the authorized work will likely require modification of this permit. If a change in the authorized work is necessary, you should promptly submit revised plans to the Corps showing the proposed changes. You may not undertake the proposed changes until the Corps notifies you that your permit has been modified.

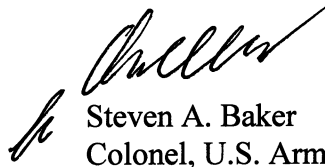
Carefully read your permit. The general and special conditions are important. Your failure to comply with these conditions could result in a violation of Federal law. Certain significant conditions require that:

- a. You must complete construction before December 31, 2017.
- b. You must allow representatives from this office to make periodic visits to your worksite as deemed necessary to assure compliance with permit plans and conditions.

You must notify this office in advance as to when you intend to commence and complete work.

You should address all questions regarding this authorization to Ronnie Smith,
Regulatory Division, telephone 910-251-4829.

Sincerely,


Steven A. Baker
Colonel, U.S. Army
District Commander

Enclosures

Copy Furnished (with enclosures):

Chief, Source Data Unit
NOAA/National Ocean Service
ATTN: Sharon Tear N/CS261
1315 East-West Hwy., Rm 7316
Silver Spring, MD 20910-3282

Copies Furnished (with special
conditions and plans):

Mr. Doug Huggett
Division of Coastal Management
North Carolina Department of
Environment and Natural Resources
400 Commerce Avenue
Morehead City, North Carolina 28557

Mr. Pete Benjamin
U.S. Fish and Wildlife Service
Fish and Wildlife Enhancement
Post Office Box 33726
Raleigh, North Carolina 27636-3726

Mr. Ron Sechler
National Marine Fisheries Service
Pivers Island
Beaufort, North Carolina 28516

Mr. David Rackley
National Marine Fisheries Service
219 Fort Johnson Road
Charleston, South Carolina 29412-9110

Ms. Jennifer Derby, Chief
US EPA - Wetlands Section - Region IV
Water Management Division
61 Forsyth Street
Atlanta, Georgia 30303

Electronic Copies furnished:

CESAW-RG/Smith/McLendon

DEPARTMENT OF THE ARMY PERMIT

Permittee **NC Department of Transportation**

Permit No. **SAW 2002-00645**

Issuing Office **CESAW-RG-L**

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Replacement of Bridges 12, 18 and 42 located along NC 11 over the Cape Fear River, Bladen County, Transportation Improvement Project Number B-4028, State Permit Number 8.1421401)

Project Location: The proposed project is located at bridge numbers 12, 18 and 42 along NC Highway 11 over the Cape Fear River, approximately 2 miles north of the intersection of NC Highway 11 and NC Highway 87, east of East Arcadia, Bladen County, North Carolina. The project is located in wetlands that are adjacent to the Cape Fear River. The project is more specifically located starting at Latitude 34.396 N, Longitude -78.2679 W and ending at Latitude 34.4082, Longitude -78.2627.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **31 DECEMBER 2017**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit,

Special Conditions:

SEE ATTACHED SPECIAL CONDITIONS

Further Information:

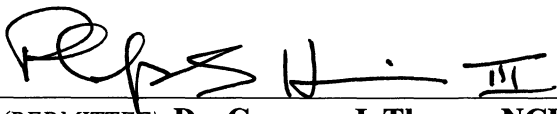
1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. **Reliance on Applicant's Data:** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
 5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. **Extensions.** General condition 1 establishes a time limit for the completion of the activity authorized by this permit, Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


 _____ 05/15/2012
 (PERMITTEE) **Dr. Gregory J. Thorpe, NCDOT** (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


 _____ 05/17/2012
 (DISTRICT ENGINEER) **Steven A. Baker, Colonel, US Army** (DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFEE) (DATE)

SPECIAL CONDITIONS, Action ID. SAW 2002-00645

SPECIAL CONDITIONS (Action ID. SAW-2002-00645, Replacement of Bridges 12, 18 and 42 located along NC 11 over the Cape Fear River, Bladen County, Transportation Improvement Project Number B-4028, State Permit Number 8.1421401)

- 1. Failure to institute and carry out the details of the following special conditions below will result in a directive to cease all ongoing and permitted work within waters of the United States, including wetlands, associated with the permitted project, or such other remedies and/or fines as the U.S. Army Corps of Engineers District Commander or his authorized representatives may seek.**
- 2. All work authorized by this permit must be performed in strict compliance with the attached plans, which are a part of this permit. Any modification to these plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.**
- 3. The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Mr. Ronnie Smith, Wilmington Regulatory Field Office, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings. One copy of the final half-size construction drawings shall be furnished to the Corps of Engineers, Mr. Ronnie Smith, Wilmington Regulatory Field Office prior to the pre-construction meeting.**
- 4. The permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Mr. Ronnie Smith, Wilmington Regulatory Field Office prior to any active construction in waters or wetlands.**
- 5. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit and any authorized modifications. Copies of this permit and any modifications authorized by the USACE shall be available for review at the construction site at all times. All violations, including non-compliance of these conditions, of the authorized permit shall be reported to the District Engineer within 24 hours of the violation.**
- 6. The permittee shall advise the Corps Navigation Branch in writing 30 days prior to beginning the work authorized by this permit. Their address is as follows:**

SPECIAL CONDITIONS, Action ID. SAW 2002-00645

USACE-Navigation Branch
Attn: Justin Arnette
69 Darlington Avenue
Wilmington, North Carolina 28403

7. Compensatory mitigation for the permanent loss of 0.89 acre of riparian wetlands and the permanent conversion of 1.27 acres forested wetlands to herbaceous wetlands associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated November 7, 2011 from Michael Ellison, EEP Deputy Director. Pursuant to the In-Lieu-Fee Instrument signed July 28, 2010 between the State of North Carolina, Ecosystem Enhancement Program and the US Army Corps of Engineers the EEP will debit **2.24** acres of restoration equivalent riparian wetland credits from the **Privateer Farms Mitigation Site** in the Cape Fear River Basin (Hydrologic Cataloging Unit 03030005) in accordance with Section F of the instrument.

8. Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

9. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area.

10. To ensure that all borrow and waste activities occur on high ground and do not result in loss or the degradation of adjacent wetlands and streams, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall ensure that all such areas comply with the preceding condition (#7) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the preceding condition (#7). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

SPECIAL CONDITIONS, Action ID. SAW 2002-00645

11. The permittee shall comply with the conditions specified in the water quality certification, No. 3876, issued by the North Carolina Division of Water Quality on January 11, 2012. The water quality certification is attached for your convenience.

12. The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4). Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

13. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

14. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.

15. The permittee shall install barrier fencing or other acceptable forms of barrier around all wetlands that are not to be disturbed to make them readily visible and prevent construction equipment from inadvertently entering and disturbing the wetland areas that are to remain undisturbed.

16. All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. No equipment staging or storage of construction material will occur in wetlands. Hydro-seeding equipment will not be discharged or washed out into any surface waters or wetlands. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Quality at (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

SPECIAL CONDITIONS, Action ID. SAW 2002-00645

17. The lowest point of the 115 kilovolt power lines shall be installed at least 20 feet above the bridge clearance as established by the U.S. Coast Guard. The clearances are based on the low point of the line under conditions which produce the greatest sag, taking into consideration temperature, load, wind, length or span, and type of supports as outlined in the National Electrical Safety Code.

18. All telephone and telecommunication lines shall be directionally bored under all jurisdictional waters and wetlands. All utility lines will be bored to a depth of 20 feet below the current bed of the Cape Fear River.

19. The permittee shall contact the Corps if the material pumped for the directional drilling operation leaches to the surface and into waters or wetlands.

20. The permittee shall abide by the project commitments identified in the FHWA/NCDOT FONSI.

21. The permittee shall abide by all stipulations of the Memorandum of Agreement among the Federal Highway Administration, the North Carolina Department of Transportation and the North Carolina State Historic Preservation Officer for this project.

22. All necessary precautions and measures will be implemented so that any activity will not kill, injure, capture, harass, or otherwise harm any protected federally listed species. While accomplishing the authorized work, if the permittee discovers or observes a damaged or hurt listed endangered or threatened species, the District Engineer will be immediately notified so that required coordination can be initiated with the U.S. Fish and Wildlife Service.

23. In order to protect anadromous fish and the short-nose sturgeon, a moratorium on in-water construction will be in place from February 1-June 30.

24. Bridge demolition and removal shall be accomplished in accordance with the "Best Management Practices for Construction and Maintenance Activities", dated August 2003.

25. The permittee shall adhere to the most recent "Best Management Practices for Protection of Surface Waters".

26. The existing bridge piles shall be removed in their entirety or cut off at the current river bed elevation using a wire saw or other appropriate apparatus.

27. The permittee shall maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.

SPECIAL CONDITIONS, Action ID. SAW 2002-00645

28. Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

29. A representative of the Corps of Engineers will periodically and randomly inspect the work for compliance with these conditions. Deviations from these procedures may result in cessation of work until the problem is resolved to the satisfaction of the Corps.

30. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

31. In issuing this permit, the Federal Government does not assume any liability for:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future Federal activities initiated on behalf of the general public.
- c. Damages to other permitted or un-permitted activities or structures caused by the authorized activity.
- d. Design and construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.



North Carolina Department of Environment and Natural Resources

Division of Water Quality

Beverly Eaves Perdue
Governor

Charles Wakild P E
Director

Dee Freeman
Secretary

January 11 2012

Dr Greg Thorpe PhD Manager
Project Development and Environmental Analysis
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh North Carolina 27699 1598

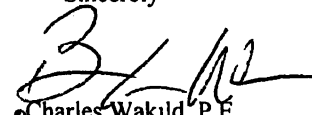
Subject 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with
ADDITIONAL CONDITIONS for Proposed replacement of Bridge Nos 12 18 and 42 on NC 11 over
the Cape Fear River and overflows in Bladen County Federal Aid Project No BRSTP 0011(9) State
Project No 8 1421401 TIP B 4028
NCDWQ Project No 110984

Dear Dr Thorpe

Attached hereto is a copy of Certification No 3876 issued to The North Carolina Department of Transportation
(NCDOT) dated January 10 2012

If we can be of further assistance do not hesitate to contact us

Sincerely



Charles Wakild P E
Director

Attachments

cc Ronnie Smith US Army Corps of Engineers Wilmington Field Office (electronic copy only)
Greg Burns PE Division 6 Engineer
Jim Rerko Division 6 Environmental Officer (electronic copy only)
Chris Militscher Environmental Protection Agency (electronic copy only)
Travis Wilson NC Wildlife Resources Commission (electronic copy only)
Leilani Paugh NCDOT NEU Mitigation (electronic copy only)
John Merritt NCDOT NEU (electronic copy only)
File Copy

Transportation Permitting Unit
1650 Mail Service Center Raleigh North Carolina 27699 1650
Location 512 N Salisbury St Raleigh North Carolina 27604
Phone 919 807 6300 \ FAX 919 807 6492
Internet <http://h2o.enr.state.nc.us/ncwetlands/>

An Equal Opportunity \ Affirmative Action Employer

One
North Carolina
Naturally

401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92 500 and 95 217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H 0500 This certification authorizes the NCDOT to impact 4 31 acres of jurisdictional wetlands and 1 74 acres of surface waters in Bladen County The project shall be constructed pursuant to the application dated received November 7 2011 The authorized impacts are as described below

Wetland Impacts in the Cape Fear River Basin (riparian)

Location	Structure Type	Permanent Fill (acre)	Temporary Fill (acre)	Excavation (acre)	Mechanized Clearing (acre)	Hand Clearing (acre)	Total Wetland Impact (acre)	Impacts Requiring Mitigation (acre)
22+65 L to 39+30 L	1236 ft Bridge	0 01	0	0	0 01	0 04	0 06	0 02
22+65 L to 39+30 L	Work Bridge	0	<0 01	0	0	0 12	0 12	0 00
39+90 L to 52+10 L	375 ft Bridge	0 45	0	0	0 09	0 08	0 62	0 54
39+90 L to 52+10 L	Work Bridge	0	0 01	0	0	0 23	0 24	0 00
52+10 L to 69+00 L	375 ft bridge	0 43	0	0	0 13	0 15	0 71	0 56
52+10 L to 69+00 L	Work Bridge	0	0 01	0	0	0 23	0 24	0 00
ADDITIONAL SITES								
Site 1 (30+72 to 33+40)	Aerial Power	0	0	0	0	0 26	0 26	0 00
Site 2 (32+76 to 35+29)	Aerial Power	0	0	0	0	0 35	0 35	0 00
Site 3 (44+32 to 44+61)	Aerial Power	0	0	0	0	0 01	0 01	0 00
Site 4 (49+15)	Trans Pole	<0 01	0	0	0	0	<0 01	0 00
Site 5 (49+84 to 51+95)	Aerial Power	0	0	0	0	0 23	0 23	0 00
Site 6 (54+35)	Trans Pole	<0 01	0	0	0	0	<0 01	0 00
Site 7 (57+88 to 58+63)	Aerial Power	0	0	0	0	1 05	1 05	0 00
Site 8 (61+88 to 63+63)	Aerial Power	0	0	0	0	0 10	0 10	0 00
Site 9 (65+55)	Trans Pole	<0 01	0	0	0	0	<0 01	0 00
Site 10 (64+44 to 67+45)	Aerial Power	0	0	0	0	0 32	0 32	0 00
Total		0 89	0 02	0	0 23	3 17	4 31	1 12

Total Wetland Impact for Project 4 31 acres

Open Water (Ponds) Impacts in the Cape Fear River Basin

Location	Structure	Permanent Fill in Open Waters (ac)	Temporary Fill in Open Waters (ac)	Total Fill in Open Waters (ac)
22+65 L to 39+30 L	1236 ft Bridge	0 67	0	0 67
22+65 L to 39+30 L	Work Bridge	0	0 01	0 01
39+90 L to 52+10 L	375 ft Bridge	0 79	0	0 79
52+10 L to 69+00 L	375 ft Bridge	0 27	0	0 27
Total		1 73	0 01	1 74

Total Open Water Impact for Project 1 74 acres

The application provides adequate assurance that the discharge of fill material into the waters of the Cape Fear River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines Therefore the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301 302 303 306 307 of PL 92 500 and PL 95 217 if conducted in accordance with the application and conditions hereinafter set forth

This approval is only valid for the purpose and design that you submitted in your application dated received November 7 2007 Should your project change you are required to notify the NCDWQ and submit a new application If the property is sold the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all the conditions If any additional wetland impacts or stream impacts for this project (now or in the future) exceed one acre or 150 linear feet respectively additional compensatory mitigation may be required as described in 15A NCAC 2H 0506 (h) (6) and (7) For this approval to remain valid you are required to comply with all the conditions listed below In addition you should obtain all other federal state

or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control Coastal Stormwater Non discharge and Water Supply watershed regulations This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit

Condition(s) of Certification

Project Specific Conditions

- 1 The NCDOT Division Environmental Officer or Environmental Assistant will conduct a pre construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the potential issues with stream and pipe alignment at the permitted site NCDWQ staff shall be invited to the pre construction meeting
- 2 The permittee will need to adhere to all appropriate in water work moratoria (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission and National Marine Fisheries Service No in water work is permitted between February 15 and June 30 of any year without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission In addition the permittee shall conform with the NCDOT policy entitled Stream Crossing Guidelines for Anadromous Fish Passage (May 12 1997) at all times
- 3 Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the 401 Water Quality Certification
- 4 The post construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations The impacted areas shall be revegetated with appropriate native species
- 5 Bridge deck drains shall not discharge directly into the stream Stormwater shall be directed across the bridge and pre treated through site appropriate means (grassed swales pre formed scour holes vegetated buffers etc) before entering the stream Please refer to the most current version of *Stormwater Best Management Practices*
- 6 Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods More specifically jetting or other methods of pile driving are prohibited without prior written approval from NCDWQ first
- 7 All pile driving or drilling activities within the Cape Fear River as well as any rock fill placed in surface waters with outlets to jurisdictional resources shall be enclosed in turbidity curtains unless otherwise approved by NCDWQ in this certification
- 8 The post construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations The impacted areas shall be revegetated with appropriate native species
- 9 All fill from the abandoned causeway shall be removed and the area graded down to the elevation of the adjacent undisturbed natural ground
- 10 The project shall be constructed in accordance with the Stormwater Management Plan submitted and dated August 4 2011
- 11 Compensatory mitigation for impacts to 1.12 acre of riparian wetlands is required We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Ecosystem Enhancement Program (EEP) and that the EEP has agreed to implement the mitigation for the project EEP has indicated in a letter dated November 1 2011 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above referenced project in accordance with the North Carolina Department of Environment and Natural Resources Ecosystem Enhancement Program In Lieu Fee Instrument signed July 28 2010

General Conditions

- 12 Unless otherwise approved in this certification placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches to allow low flow passage of water and aquatic life Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis equilibrium of wetlands or streambeds or banks adjacent to or upstream and down stream of the above structures The applicant is required to provide evidence that the equilibr um is being maintained if requested in writing by NCDWQ If this condition is unable to be met due to bedrock or other limiting features encountered during construction please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required
- 13 If concrete is used during construction a dry work area shall be maintained to prevent direct contact between curing concrete and stream water Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills
- 14 During the construction of the project no staging of equipment of any kind is permitted in waters of the U S or protected riparian buffers
- 15 The dimension pattern and profile of the stream above and below the crossing shall not be modified Disturbed floodplains and streams shall be restored to natural geomorphic conditions
- 16 The use of rip rap above the Normal High Water Mark shall be minimized Any rip rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage
- 17 The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval
- 18 All work in or adjacent to stream waters shall be conducted in a dry work area Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags rock berms cofferdams and other diversion structures shall be used to prevent excavation in flowing water
- 19 Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream
- 20 All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels lubricants hydraulic fluids or other toxic materials
- 21 No rock sand or other materials shall be dredged from the stream channel except where authorized by this certification
- 22 Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited
- 23 The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law If NCDWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated or that further conditions are necessary to assure compliance NCDWQ may reevaluate and modify this certification
- 24 All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1 unless otherwise authorized by this certification
- 25 A copy of this Water Quality Certification shall be maintained on the construction site at all times In addition the Water Quality Certification and all subsequent modifications if any shall be maintained with the Division Engineer and the on site project manager

- 26 The outside buffer wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
- 27 The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e., local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
- 28 The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- 29 Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed Certification of Completion Form to notify NCDWQ when all work included in the 401 Certification has been completed.
- 30 Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 31 There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites or access roads to waste or borrow sites be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
- 32 Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation, and operation and maintenance of such Best Management Practices in order to protect surface waters standards.
 - a The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 32 Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification, you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative Hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is

Office of Administrative Hearings
6714 Mail Service Center
Raleigh NC 27699 6714
Telephone (919) 733 2698 Facsimile (919) 733 3478

A copy of the petition must also be served on DENR as follows

Ms Mary Penny Thompson General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh NC 27699 1601

This the 11th day of January 2012

DIVISION OF WATER QUALITY

A handwritten signature in black ink, appearing to read 'C. Wakild', written over a horizontal line.

 Charles Wakild P E
Director

WQC No 3876

NCDWQ Project No _____ County _____

Applicant _____

Project Name _____

Date of Issuance of 401 Water Quality Certification _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules and any subsequent modifications the applicant is required to return this certificate to the 401 Transportation Permitting Unit North Carolina Division of Water Quality 1650 Mail Service Center Raleigh NC 27699 1650 This form may be returned to NCDWQ by the applicant the applicant s authorized agent or the project engineer It is not necessary to send certificates from all of these

Applicant s Certification

I _____ hereby state that to the best of my abilities due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules the approved plans and specifications and other supporting materials

Signature _____ Date _____

Agent s Certification

I _____ hereby state that to the best of my abilities due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules the approved plans and specifications and other supporting materials

Signature _____ Date _____

Engineer s Certification

_____ Partial _____ Final

I _____ as a duly registered Professional Engineer in the State of North Carolina having been authorized to observe (periodically weekly full time) the construction of the project for the Permittee hereby state that to the best of my abilities due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules the approved plans and specifications and other supporting materials

Signature _____ Registration No _____

Date _____

**MEMORANDUM OF AGREEMENT
AMONG THE FEDERAL HIGHWAY ADMINISTRATION,
THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION,
AND
THE NORTH CAROLINA STATE HISTORIC PRESERVATION OFFICER
FOR
THE REPLACEMENT OF BRIDGES 12, 18, AND 42
ON NC 11 OVER THE CAPE FEAR RIVER
BLADEN COUNTY, NORTH CAROLINA
TIP PROJECT No. B-4028
FEDERAL AID PROJECT No. BRSTP- 0011(9)**

WHEREAS, the Federal Highway Administration (FHWA) has determined that the replacement of Bridges 12, 18, and 42 on NC 11 over the Cape Fear River in Bladen County, North Carolina (the Undertaking) will have an effect upon Bladen County Bridge No. 12, a structure determined eligible for listing in the National Register of Historic Places (NRHP); and

WHEREAS, the FHWA has consulted with the North Carolina State Historic Preservation Officer (SHPO) pursuant to 36 CFR Part 800, regulations implementing Section 106 of the National Historic Preservation Act (16 U.S.C. 470f); and

WHEREAS, FHWA has notified the Advisory Council on Historic Preservation (Council) of the adverse effect and it has declined to comment or participate in the consultation; and

WHEREAS, the North Carolina Department of Transportation (NCDOT) has participated in the consultation and has been invited by FHWA and the North Carolina SHPO to concur in this Memorandum of Agreement (MOA);

NOW, THEREFORE, FHWA and the North Carolina SHPO agree that the Undertaking shall be implemented in accordance with the following stipulations in order to take into account the effects of the Undertaking on the historic property.

STIPULATIONS

The FHWA will ensure that the following measures are carried out:

I. Photorecording

Prior to the initiation of construction, NCDOT will record the existing condition of Bridge No. 12 and its surroundings in accordance with the attached Historic Structures and Landscape Recordation Plan (Appendix A). Copies of the documentation will be deposited in the files of the State Historic Preservation Office, NCDOT Historic Architecture Section, and the Bladen County Public Library in Elizabethtown, North Carolina.

II. Placement of Bridge No. 12 in the NCDOT Bridge Relocation and Reuse Program

Bridge No. 12 has been identified as a candidate for the NCDOT Bridge Relocation and Reuse Program. As such, the bridge will be advertised on the NCDOT Bridge Reuse Program website for relocation and reuse at a new location. NCDOT's 1988 agreement with the North Carolina SHPO and FHWA affords the opportunity for the relocation and reuse of historic truss bridges. The bridge will be advertised until four (4) months prior to the construction let date or until a recipient is found and a transfer of ownership agreement is signed, whichever comes first. If no recipient is found four months prior to the let date, the bridge will become the property of the contractor.

III. Unanticipated Discovery

In accordance with 36 CFR 800.11(a), if NCDOT identifies additional cultural resource(s) during construction and determine them to be eligible for the NRHP, all work will be halted within the limits of the NRHP-eligible resource(s) and the FHWA and SHPO contacted. If after consultation with the Signatory and Concurring Party(ies) additional mitigation is determined necessary, the NCDOT, in consultation with the Signatory and Concurring Party(ies), will develop and implement appropriate protection/mitigation measures for the resource(s). Inadvertent or accidental discovery of human remains will be handled in accordance with North Carolina General Statutes 65 and 70.

IV. Dispute Resolution

Should any of the Signatory or Concurring Party(ies) object within (30) days to any plans or documentation provided for review pursuant to this Agreement, the FHWA shall consult with the objecting party(ies) to resolve the objection. If the FHWA or the objecting party(ies) determines that the objection cannot be resolved, the FHWA will forward all documentation relevant to the dispute to the Council. Within thirty (30) days after receipt of all pertinent documentation, the Council will either:

1. Provide the FHWA with recommendations, which the FHWA will take into account in reaching a final decision regarding the dispute, or
2. Notify the FHWA that it will comment pursuant to 36 CFR Section 800.7(c) and proceed to comment. Any Council comment provided in response to such a request will be taken into account by the FHWA in accordance with 36 CFR Section 800.7 (c) (4) with reference to the subject of the dispute.

Any recommendation or comment provided by the Council will be understood to pertain only to the subject of the dispute; FHWA and NCDOT's responsibility to carry out all of the actions under this agreement that are not the subject of the dispute will remain unchanged.

V. Amendments

If any Signatory to this MOA believes that its terms cannot be carried out or that an amendment to the terms must be made, that party(ies) shall immediately consult with the other party(ies) to develop amendments in accordance with 36 CFR 800.6(c)(7). If an amendment cannot be agree upon, the dispute resolution process set forth in Stipulation IV will be followed.

VI. Termination

Any of the Signatory Party(ies) may terminate the agreement by providing notice to the other parties, provided that the signatories and concurring parties will consult during the period prior to termination to seek agreement on amendments or other actions that would avoid termination. Termination of this MOA will require compliance with 36 CFR 800. This MOA may be terminated by the execution of a subsequent MOA that explicitly terminates or supersedes its terms.

VII. Duration

Unless terminated pursuant to Stipulation VI above, this MOA will be in effect until FHWA, in consultation with the other Signatory and Concurring Party(ies), determines that all of its terms have satisfactorily been fulfilled or if NCDOT is unable or decides not to construct the Undertaking.

Execution of this Memorandum of Agreement by FHWA, NCDOT, and the North Carolina SHPO, and implementation of its terms, evidence that FHWA has afforded the Council an opportunity to comment on the Undertaking, and that FHWA has taken into account the effects of the Undertaking on the historic properties.

SIGNATORIES:

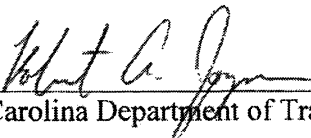
By: 
Federal Highway Administration, North Carolina

Date: 8/16/10

By: 
North Carolina State Historic Preservation Officer

Date: 8/4/10

CONCURRING PARTY:

By: 
North Carolina Department of Transportation

Date: 7/26/10

**MEMORANDUM OF AGREEMENT
AMONG THE FEDERAL HIGHWAY ADMINISTRATION,
THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION,
AND
THE NORTH CAROLINA STATE HISTORIC PRESERVATION OFFICER
FOR
THE REPLACEMENT OF BRIDGES 12, 18, AND 42
ON NC 11 OVER THE CAPE FEAR RIVER
BLADEN COUNTY, NORTH CAROLINA
TIP PROJECT No. B-4028
FEDERAL AID PROJECT No. BRSTP- 0011(9)**

FILED:

By: _____
Advisory Council on Historic Preservation

Date: _____

APPENDIX A

**Historic Structures and Landscape Recordation Plan
For
TIP No. B-4028
The Replacement of Bridges 12, 18, and 42
On NC 11 over the Cape Fear River
Bladen County, North Carolina
Federal Aid Project No. BRSTP-0011(9)**

Photographic Requirements

- Elevations and oblique views of Bridge No. 12 and its setting.
- Representative structural and ornamental details of the bridge.

Photographic Format

- Color digital images (all views). Images are to be shot on a SLR digital camera with a minimum resolution of 6 megabyte pixels, at a high quality (preferably RAW) setting, to be saved in TIF format as the archival masters and labeled according to the State Historic Preservation Office standards.
- All processing to be done to archival standards.
- The accompanying printed inventory of the images – including subject, location, date, and photographer information for each image – is to be completed according to the State Historic Preservation Office standards.

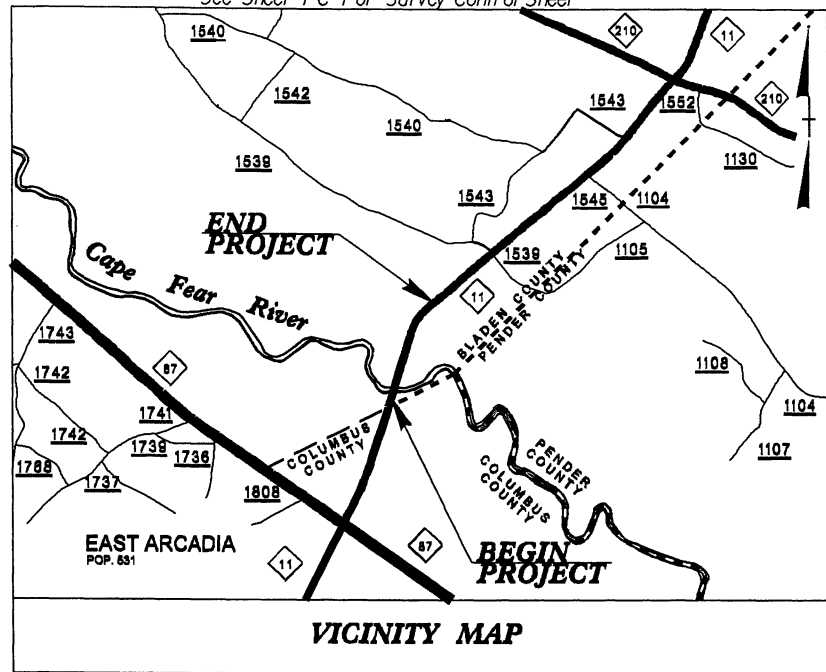
Copies and Curation

- One (1) set of all above mentioned photographic documentation, including a compact disc of labeled images, will be deposited with the North Carolina Office of Archives and History/Historic Preservation Office to be made a permanent part of the statewide survey and iconographic collection.
- One (1) contact sheet shall be deposited in the files of the Historic Architecture Section of NCDOT.
- One (1) contact sheet shall be deposited in the files of the Bladen County Public Library in Elizabethtown, North Carolina.

09/08/09

CONTRACT: TIP PROJECT: B-4028

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols
See Sheet 1-C For Survey Control Sheet



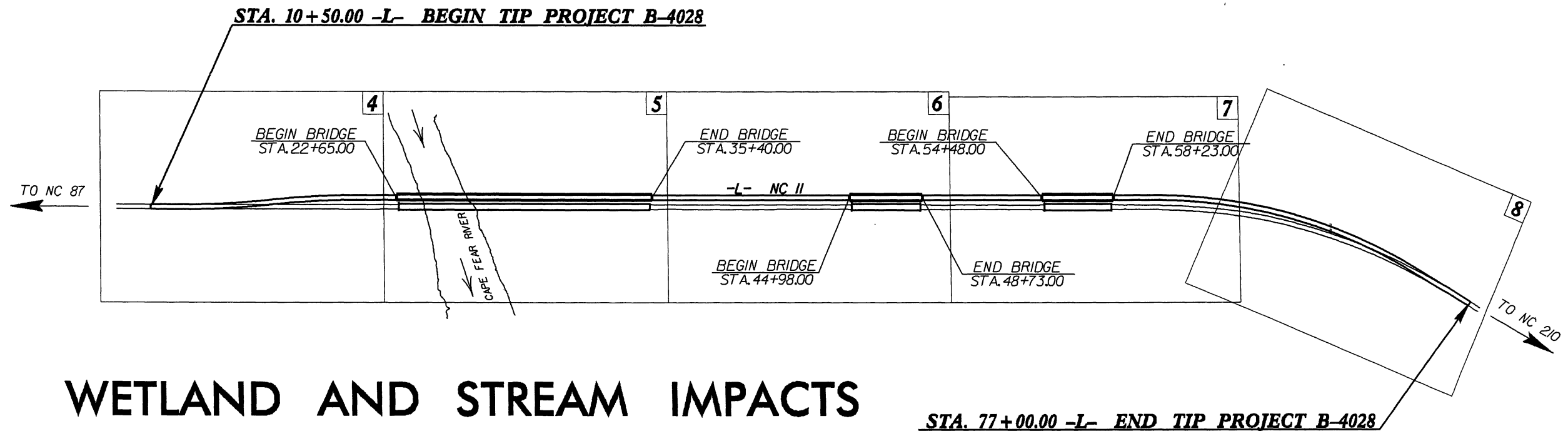
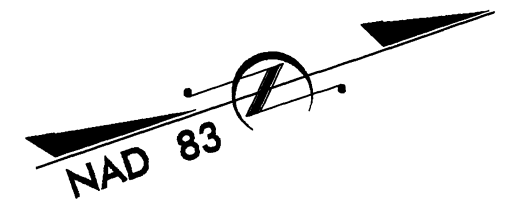
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BLADEN COUNTY

LOCATION: BRIDGE NOS. 12, 18 AND 42 OVER CAPE FEAR RIVER AND OVERFLOW ON NC 11

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4028	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33395.1.1	BRSTP-0011(9)	P.E.	
33395.3.1	BRSTP-0011(9)	R/W & UTIL.	

Permit Drawing
Sheet 1 of 19

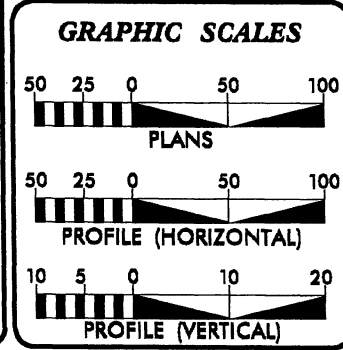


WETLAND AND STREAM IMPACTS

NOTE: THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

NOTE: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2012	=	3663
ADT 2032	=	6478
DHV	=	11 %
D	=	55 %
T	=	34 % *
V	=	60 MPH
* TTST 28% DUAL 6%		
FUNC. CLASS=MAJOR COLLECTOR REGIONAL TIER		

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4028	=	0.875 MILES
LENGTH STRUCTURES TIP PROJECT B-4028	=	0.384 MILES
TOTAL LENGTH TIP PROJECT B-4028	=	1.259 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 22, 2010

LETTING DATE:
AUGUST 21, 2012

BRENDA MOORE, P.E.
PROJECT ENGINEER

VACANT
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$
\$\$\$\$\$ USER NAME\$\$\$\$\$
\$\$\$\$\$ USERNAME\$\$\$\$\$

8/17/99

REVISIONS
08/03/11/R/W REVISION (PJS) - THE PUE WAS ADJUSTED TO THE LEFT ON PARCEL 1 (J.L.BIBBS AND WIFE ROSA) AND ON PARCEL 22 (CORBETT INDUSTRIES, INC.)

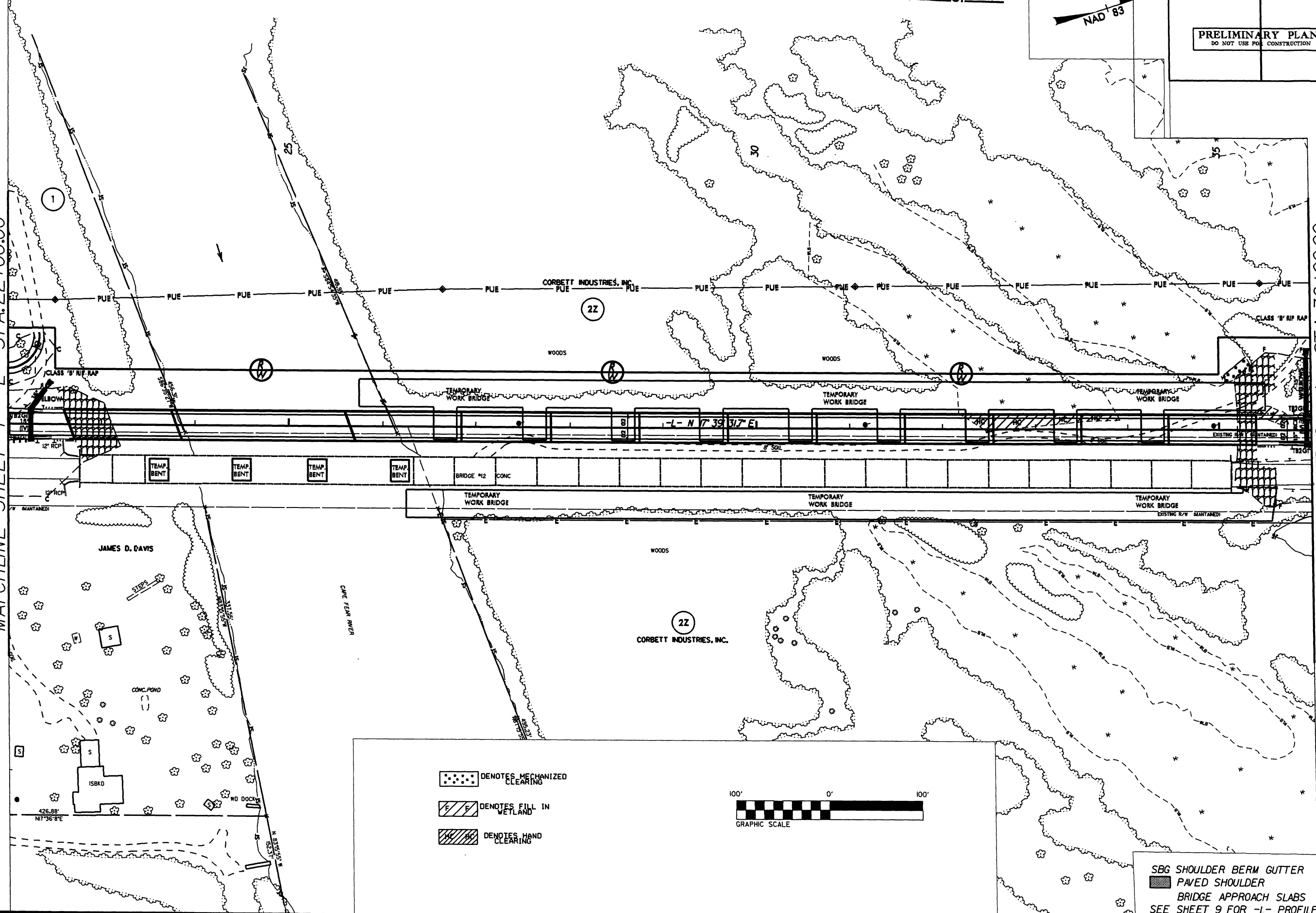
Permit Drawing Sheet 2 of 19



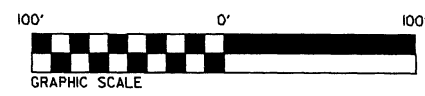
PROJECT REFERENCE NO. B-4028		SHEET NO. 5	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			

MATCHLINE SHEET 4 -L- STA. 22+00.00

MATCHLINE SHEET 6 -L- STA. 36+00.00



- DENOTES MECHANIZED CLEARING
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING

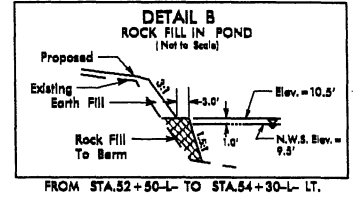


SBG SHOULDER BERM GUTTER
 PAVED SHOULDER
 BRIDGE APPROACH SLABS
 SEE SHEET 9 FOR -L- PROFILE

 SYSTEMS

PROJECT REFERENCE NO. B-4028	SHEET NO. 7
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

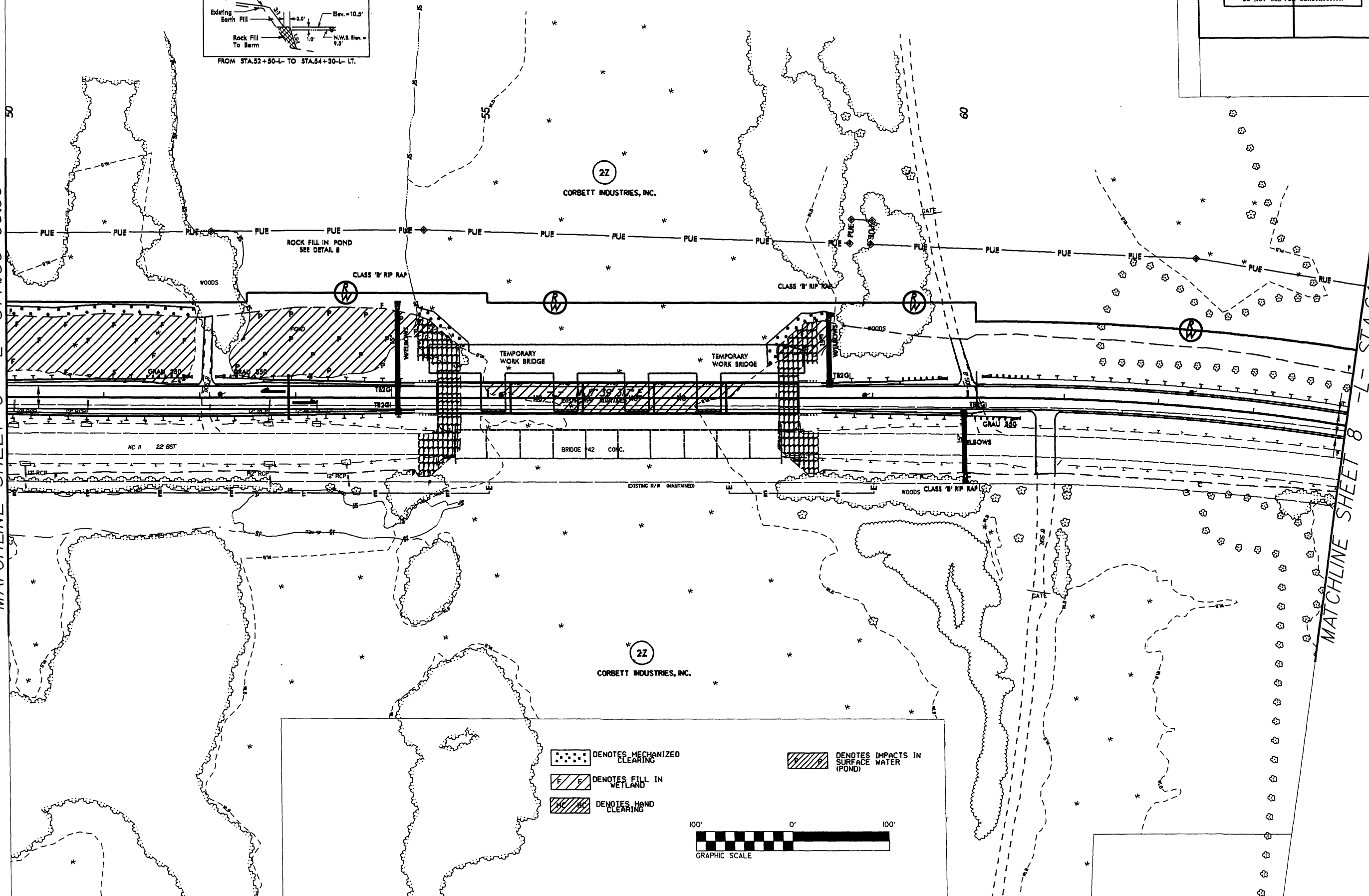
Permit Drawing
Sheet 6 of 19



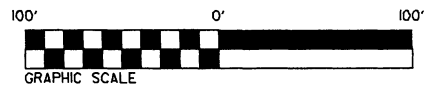
MATCHLINE SHEET 6 -L- STA. 50+00.00

MATCHLINE SHEET 8 -L- STA. 64+00.00

REVISIONS
08/03/11 R/W REVISION (PIS) - THE PUE WAS ADJUSTED TO THE LEFT ON PARCEL 2Z (CORBETT INDUSTRIES, INC.).



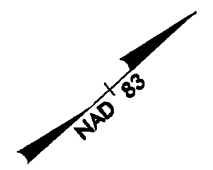
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER (POND)
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING



SYSTEMS DESIGN
CORBETT INDUSTRIES, INC.

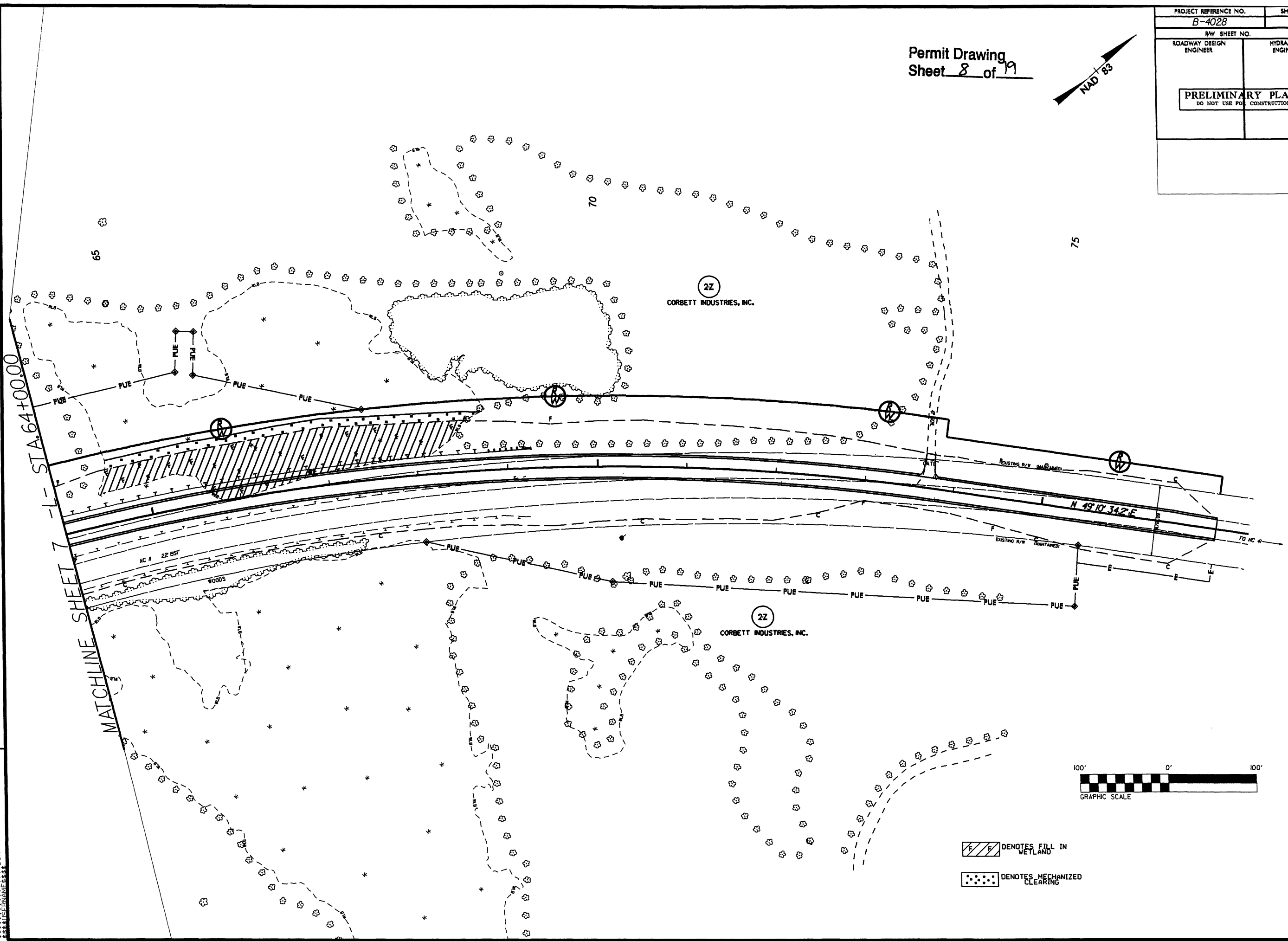
PROJECT REFERENCE NO. B-4028	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Permit Drawing
Sheet 8 of 19



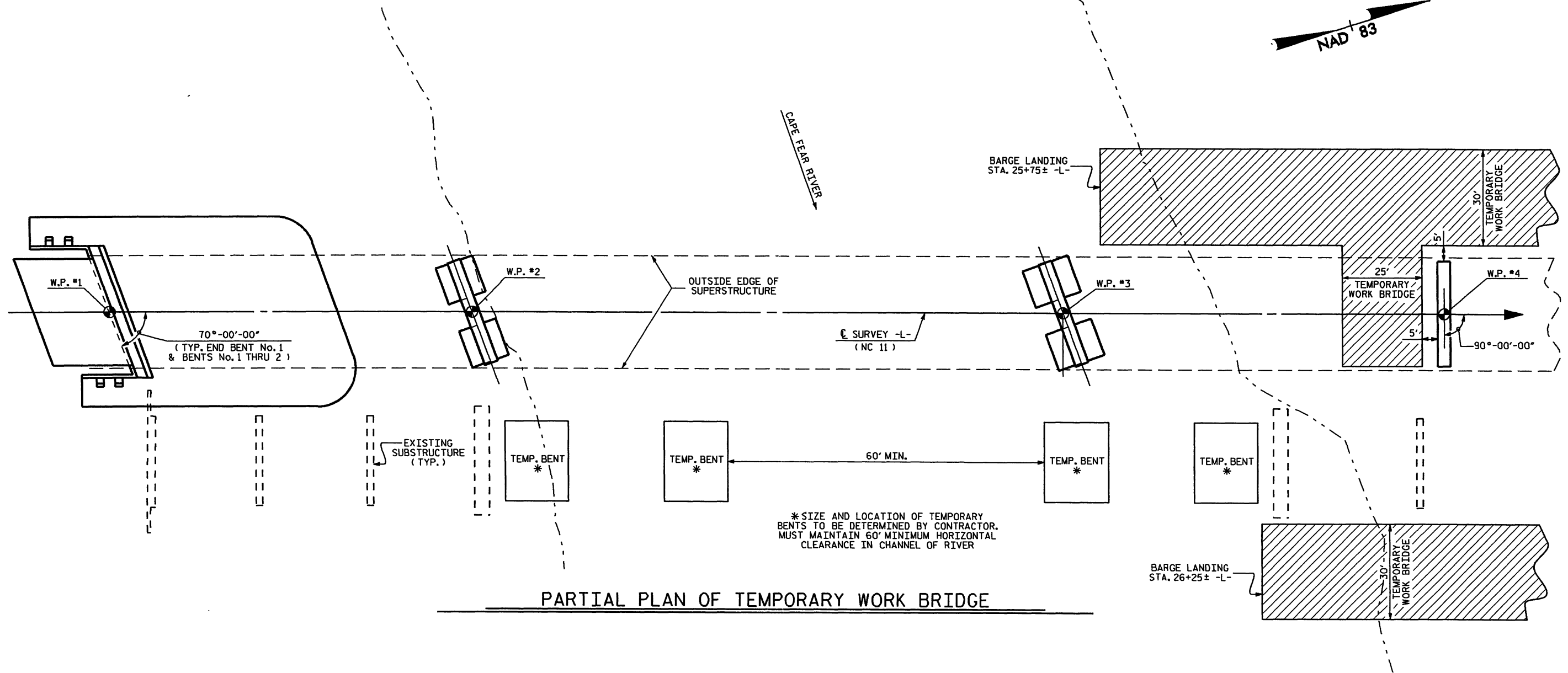
REVISIONS
 08/03/11 RW REVISION (PJS) - THE PUE LEFT OF -L- WAS ADJUSTED ON PARCEL 2Z (CORBETT INDUSTRIES, INC.).

8/17/99



- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

 SYSTEMS DESIGN *****



PARTIAL PLAN OF TEMPORARY WORK BRIDGE

PROJECT NO. B-4028
BLADEN COUNTY
 STATION: 29+02.50 -L-

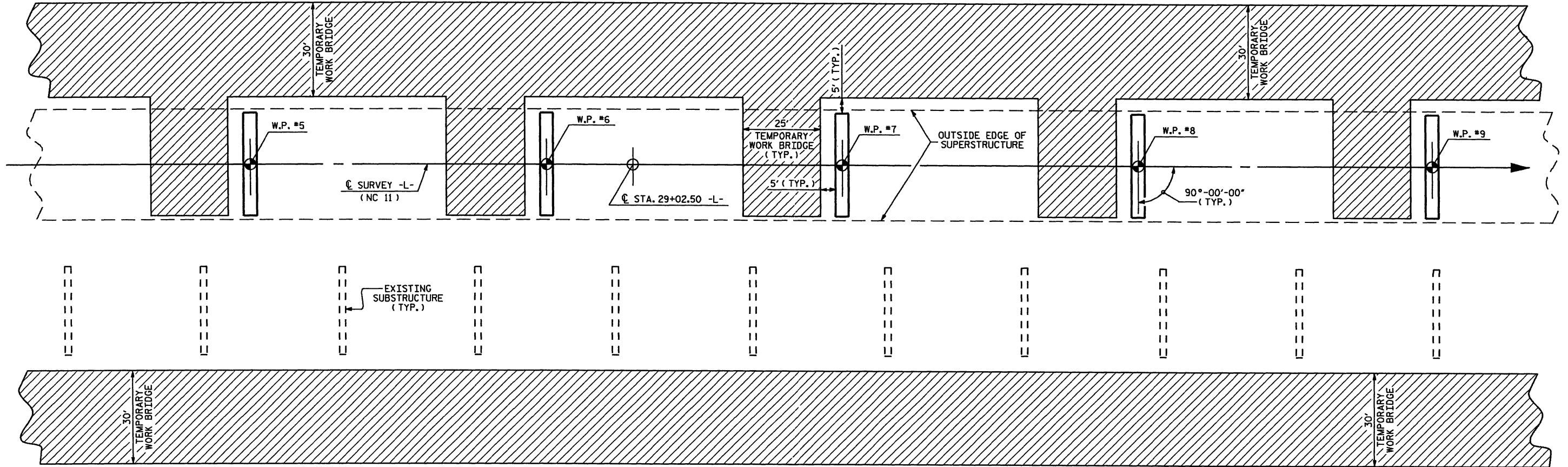
SHEET 1 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

TEMPORARY ACCESS
 DETAILS

DRAWN BY : MIKE BRITT DATE : 8-30-11
 CHECKED BY : _____ DATE : _____

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-?
1			3			TOTAL SHEETS
2			4			??



PARTIAL PLAN OF TEMPORARY WORK BRIDGE

PROJECT NO. B-4028
BLADEN COUNTY
 STATION: 29+02.50 -L-

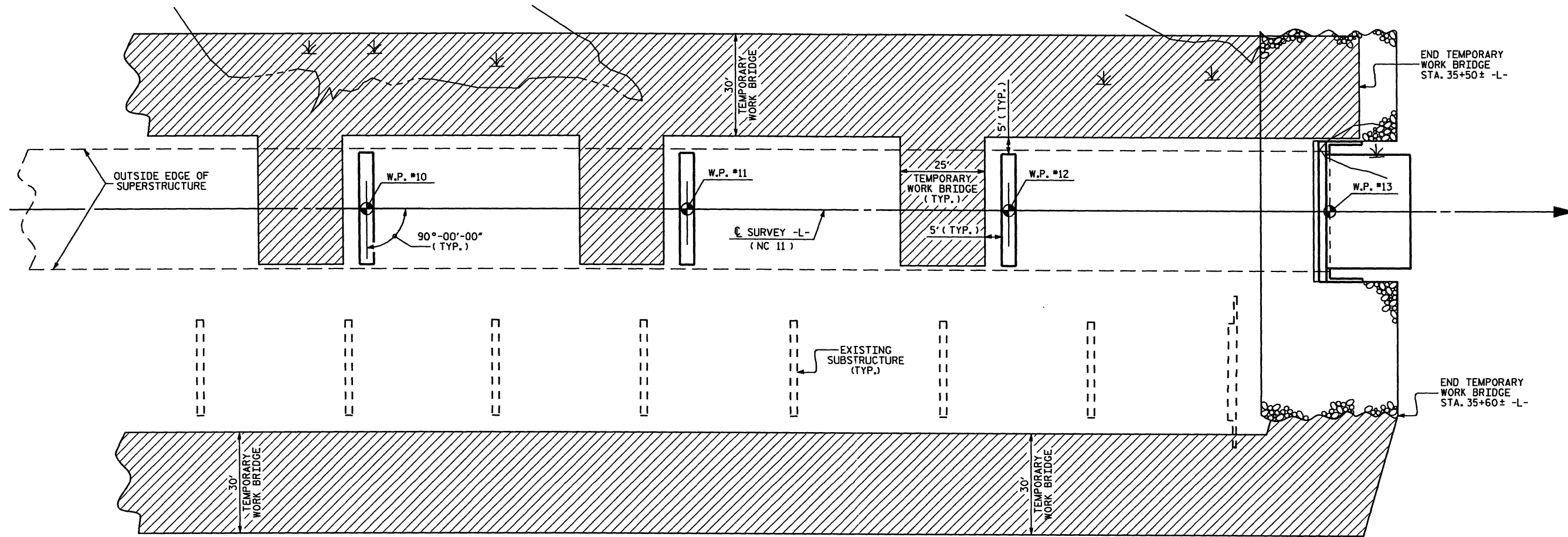
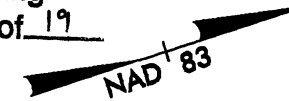
SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 TEMPORARY ACCESS
 DETAILS

DRAWN BY : MIKE BRITT DATE : 8-30-11
 CHECKED BY : _____ DATE : _____

30-AUG-2011 14:44
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 mbr111

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-?
1			3			??
2			4			??



PARTIAL PLAN OF TEMPORARY WORK BRIDGE

PROJECT NO. B-4028
BLADEN COUNTY
 STATION: 29+02.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

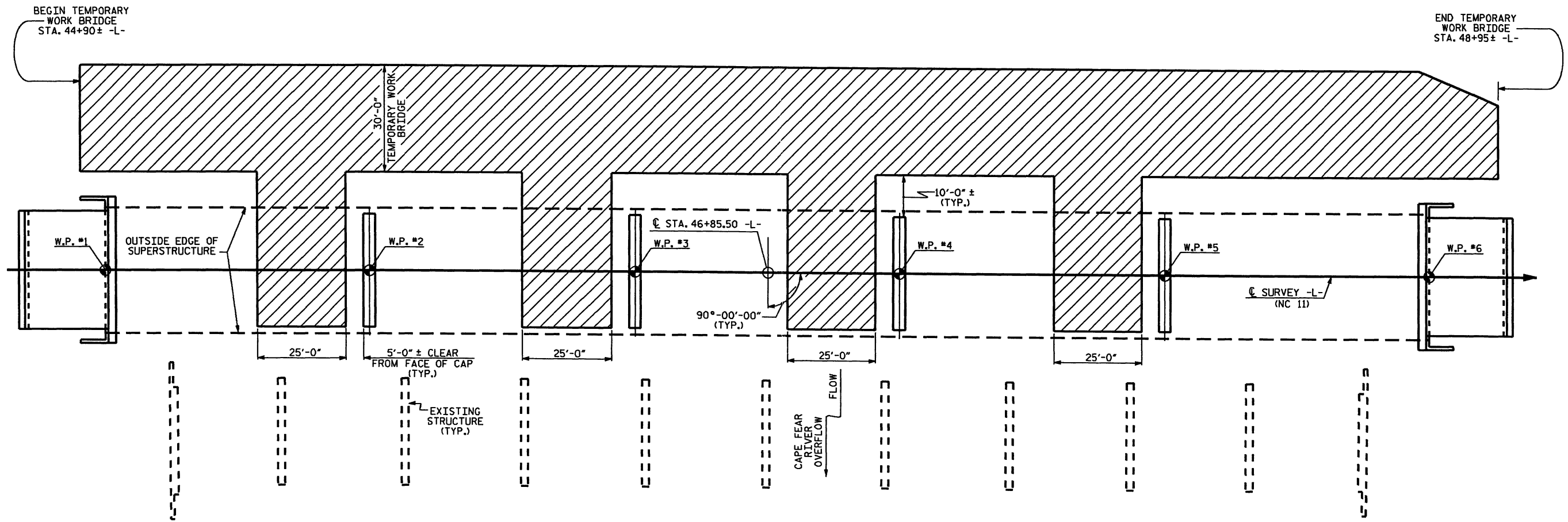
TEMPORARY ACCESS
 DETAILS

DRAWN BY: MIKE BRITT DATE: 8-30-11
 CHECKED BY: _____ DATE: _____

30-AUG-2011 14:44
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 mbr111

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-?
1			3			TOTAL SHEETS
2			4			??

STR. #1



PLAN OF TEMPORARY WORK BRIDGE



PROJECT NO. B-4028
BLADEN COUNTY
 STATION: 46+85.50 -L-

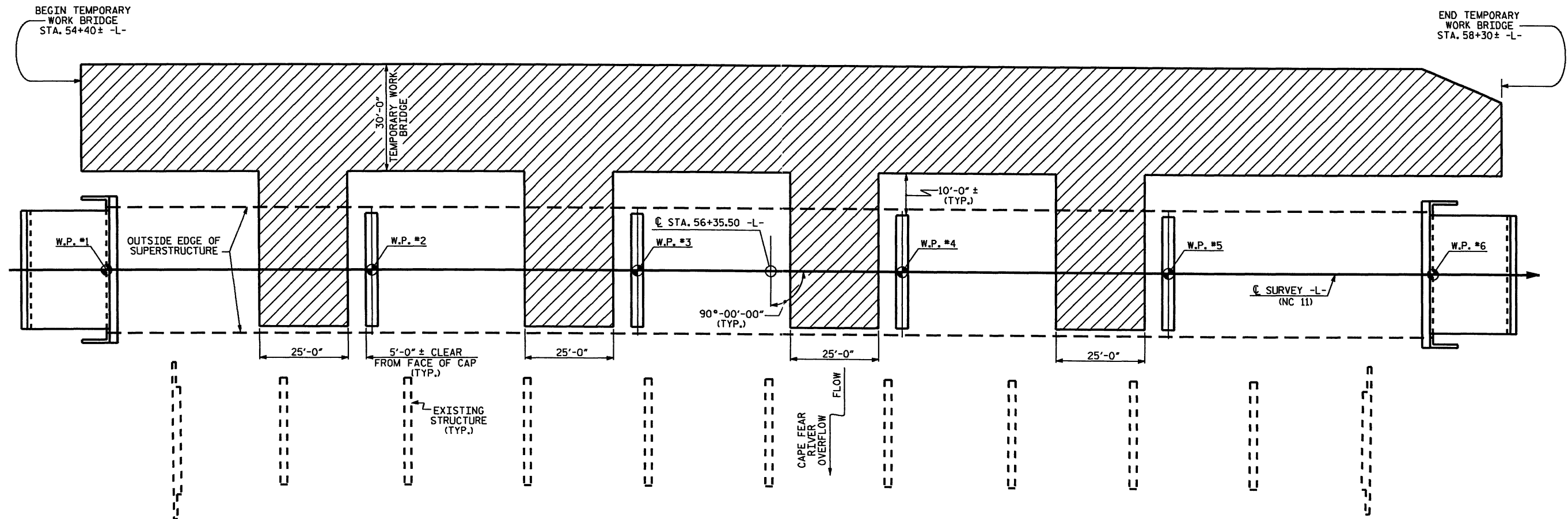


STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**TEMPORARY ACCESS
 DETAILS**

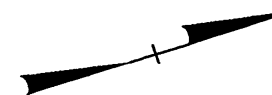
DRAWN BY : S. B. WILLIAMS DATE : 8/11
 CHECKED BY : _____ DATE : _____

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 sbwilliams

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS
2			4			



PLAN OF TEMPORARY WORK BRIDGE



PROJECT NO. B-4028
BLADEN COUNTY
 STATION: 56+35.50 -L-



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO.
TEMPORARY ACCESS DETAILS						
REVISIONS						TOTAL SHEETS
NO.	BY	DATE	NO.	BY	DATE	
1			3			4
2			4			

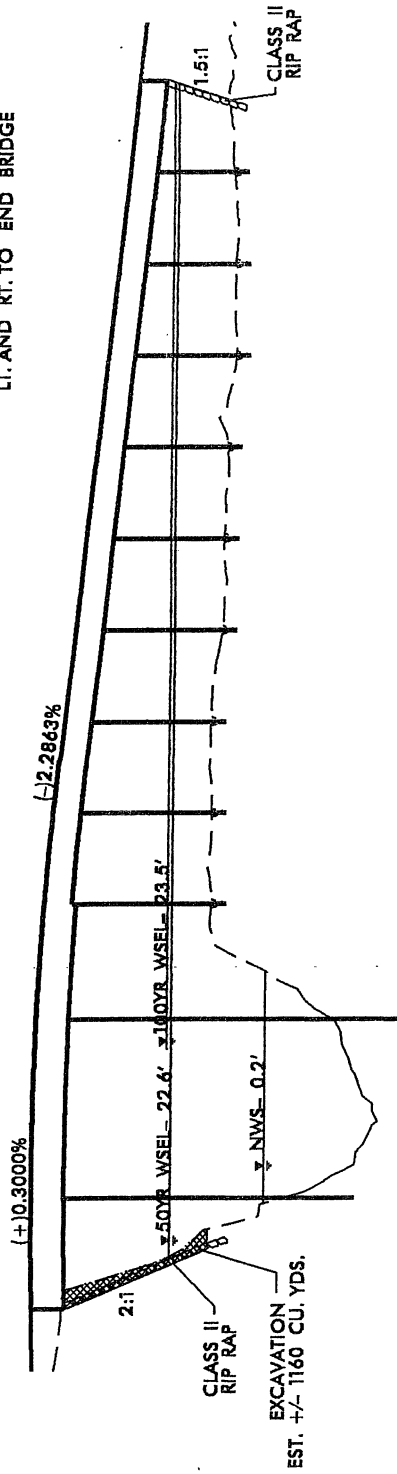
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 CHECKED BY: _____ DATE: _____

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 sbwilliams

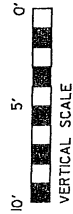
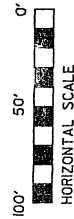
STA. 29+02.5 -L-
 1@115'; 1@185'; 1@120' STEEL GIRDERS; 9@95'
 54" PRESTRESSED GIRDERS O.A.L.-1275'
 SKEW- 90°
 ELEV- 45.79'

PI = 25+85.00
 EL = 53.05'
 VC = 500'

NOTE: USE STANDARD DECK DRAINS FROM BEGIN BRIDGE
 TO STA. 23+47 -L- LT. AND RT. AND FROM STA. 26+40 -L-
 LT. AND RT. TO END BRIDGE



PROFILE



Permit Drawing
 Sheet 15 of 19

NCDOT

DIVISION OF HIGHWAYS
 BLADEN COUNTY
 PROJECT: 53395.1.1 (B-4028)

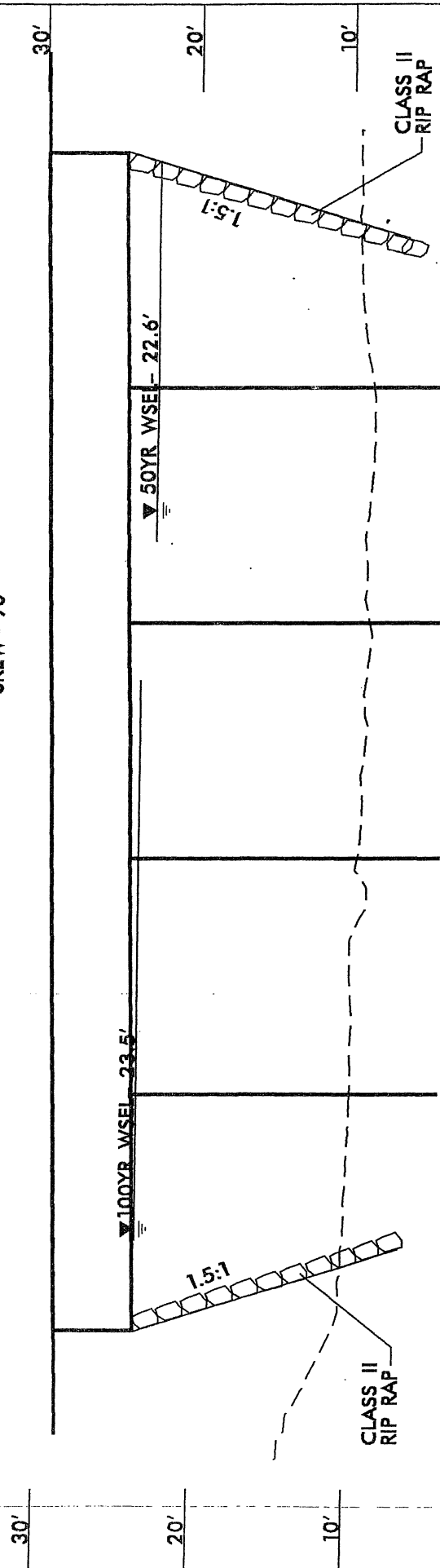
REPLACE BRG[#] 12, 18, AND 42
 OVER CAPE FEAR RIVER ON NC 11

SHEET

OF

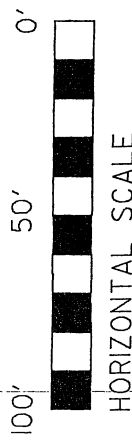
7 / 27 / 11

STA. 46+85.5 -L-
 5@ 75'; 45" PRESTRESSED GIRDERS (O.A.L.- 375')
 ELEV.- 29.24'
 SKEW- 90°



PROFILE

OVERFLOW BRIDGE



Permit Drawing
 Sheet 16 of 19

NCDOT
 DIVISION OF HIGHWAYS
 BLADEN COUNTY
 PROJECT: 33395.1.1 (B-4028)

REPLACE BRG[#] 12, 18, AND 42 OVER
 CAPE FEAR RIVER ON NC II

SHEET OF 7 / 27 // 11

STA. 56+35.5 -L-
 5@ 75'; 45" PRESTRESSED GIRDER (O.A.L.- 375')
 SKEW- 90°
 ELEV.- 30.11'

-0.3000% -0.3000% 30'

▼ 50YR WSEL- 22.6'

▼ 100YR WSEL- 23.5'

30' 20' 10'

1.5:1

1.5:1

CLASS II RIP RAP

CLASS II RIP RAP

54+00 -L- 55+00 -L- 56+00 -L- 57+00 -L- 58+00 -L-

PROFILE

OVERFLOW BRIDGE

100' 50' 0'



HORIZONTAL SCALE

10' 5' 0'



VERTICAL SCALE

NCDOT
 DIVISION OF HIGHWAYS
 BLADEN COUNTY
 PROJECT: 333%1.1 (B-4028)
 REPLACE BRG[#] 12, 18, AND 42 OVER
 CAPE FEAR RIVER ON NC 11

Permit Drawing
 Sheet 17 of 19

SHEET OF 7 / 27 / 11

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.

NAMES

ADDRESSES

2Z

CORBETT INDUSTRIES INC

P.O. BOX 210
WILMINGTON, N.C. 28402

Permit Drawing
Sheet 18 of 19

NCDOT

DIVISION OF HIGHWAYS

BLADEN COUNTY

PROJECT: 33395.1.1 (B-4028)

REPLACE BRG[#]12,18, AND 42
OVER CAPE FEAR RIVER ON NC 11

SHEET

OF

8 / 4 / 11

B-4028 NEU Narrative

Utility Owners:

- **Power:** Four County EMC – (contact: Edward Pope 910-259-1854)
- **Telephone:** AT&T (contact: Shannon Coston 910-341-1623)
- **Telecommunications:** BTI (contact: Scott Powell 919-600-4934)

General Utility Relocation:

All utility lines inside the project limits will be adjusted as necessary or relocated away from construction. The power, telephone and telecommunications will be relocated prior to the letting.

Existing Utilities:

- **Power:** the existing Four County EMC aerial power transmission pole lines run along northwest side of NC 11.
- **Telephone:** the existing AT & T Telephone lines (fiber optic and copper cables) are underground and aerial along northwest side of NC 11.
- **Telecommunications:** the existing BTI Telecommunications fiber optic lines are underground along southeast side of NC 11.

Proposed Utility Relocation:

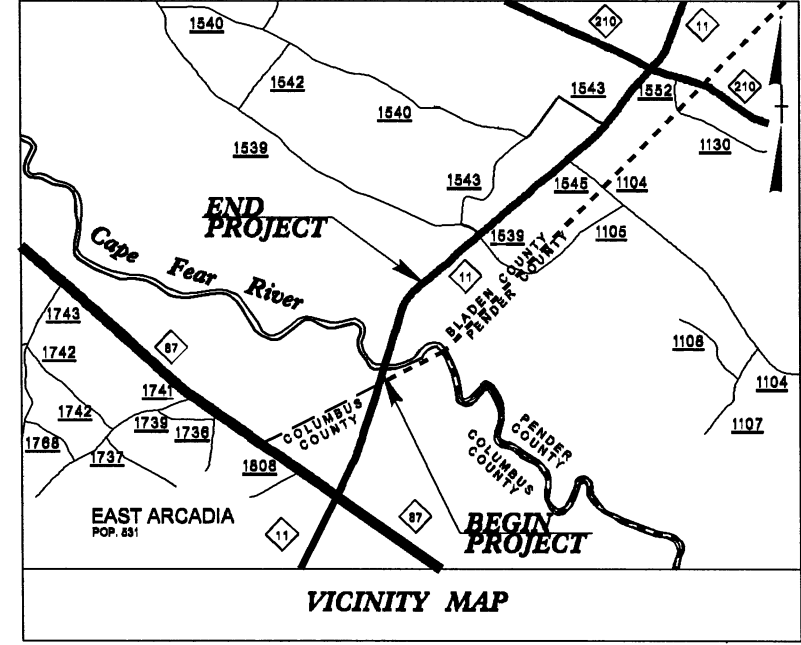
- **Power:** Four County EMC will abandon all aerial power transmission pole lines after a new aerial power transmission pole line is installed along the proposed R/W line on the northwest side of NC 11 then crosses Line –L- at Sta. 67+53 and continues on the south east side of NC 11 to the end of the project.
- **Telephone:** AT&T will abandon all aerial and underground facilities and install new fiber optic cables on the west side of NC 11. The proposed underground conduits will be installed by directional bore across the Cape Fear River and wetlands.
- **Telecommunications:** BTI will abandon all underground facilities and install new fiber optic cables with AT&T on the west side of NC 11. The proposed underground conduits will be installed by directional bore across the Cape Fear River and wetlands.
-

09/08/09
 CONTRACT: 25-OCT-2010 7:35 R:\Utilities\RDY_UF\Proj\NEU Permits\Plans\B4028_rdy_neu_tsh.dgn
 \$\$\$USERNAME\$\$\$

TIP PROJECT: B-4028

CONTRACT:

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheet 1-C For Survey Control Sheet



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
BLADEN COUNTY

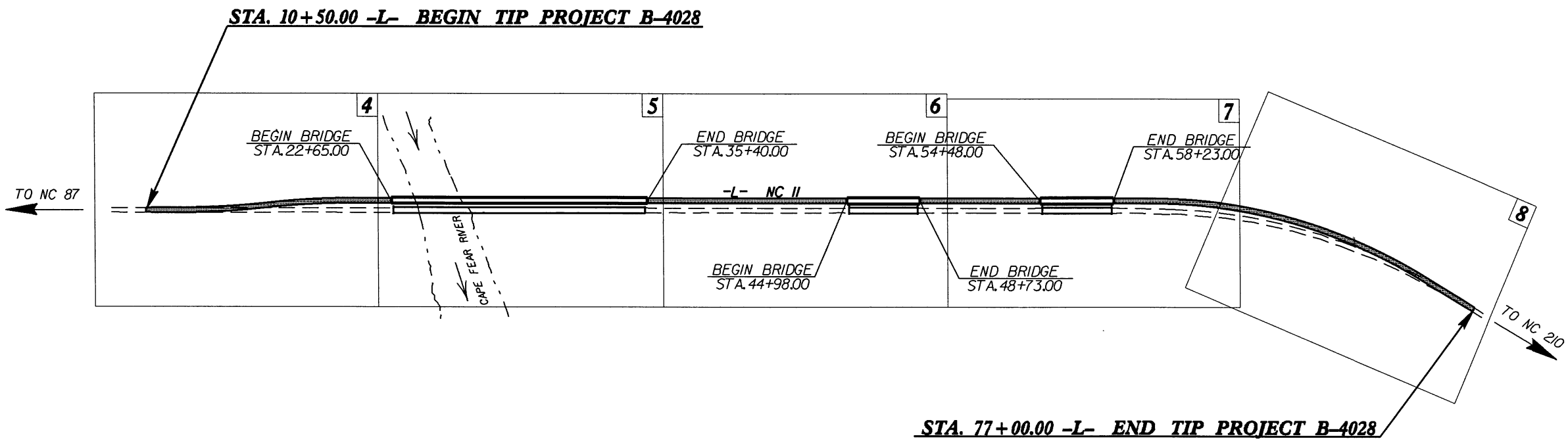
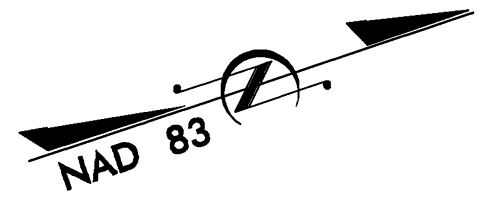
LOCATION: BRIDGE NOS. 12, 18 AND 42 OVER CAPE FEAR RIVER AND OVERFLOW ON NC 11

TYPE OF WORK: RELOCATE AERIAL TRANSMISSION POWER POLE LINES AND UG TELEPHONE FIBER OPTIC CABLES TO THE WEST SIDE

NEU UTILITIES RELOCATION PERMIT PLANS 10 /18 /11

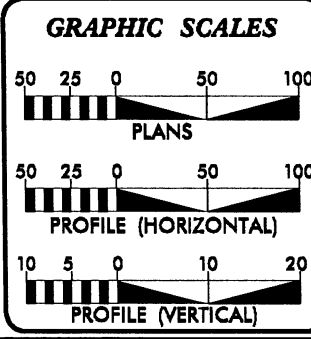
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4028	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33395.1.1	BRSTP-0011(9)	P.E.	
33395.3.1	BRSTP-0011(9)	R/W & UTIL.	

Utility Permit Drawing
 Sheet 1 of 7



NOTE: THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
 NOTE: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2012 =	3663
ADT 2032 =	6478
DHV =	11 %
D =	55 %
T =	34 % *
V =	60 MPH
* TTST 28% DUAL 6%	
FUNC. CLASS=MAJOR COLLECTOR	
REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4028 =	0.875 MILES
LENGTH STRUCTURES TIP PROJECT B-4028 =	0.384 MILES
TOTAL LENGTH TIP PROJECT B-4028 =	1.259 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: BRENDA MOORE, P.E.
 PROJECT ENGINEER

LETTING DATE:
AUGUST 21, 2012

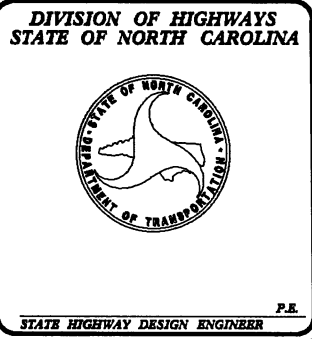
JOYCE DREW
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

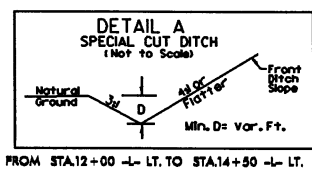
SIGNATURE: _____ P.E.



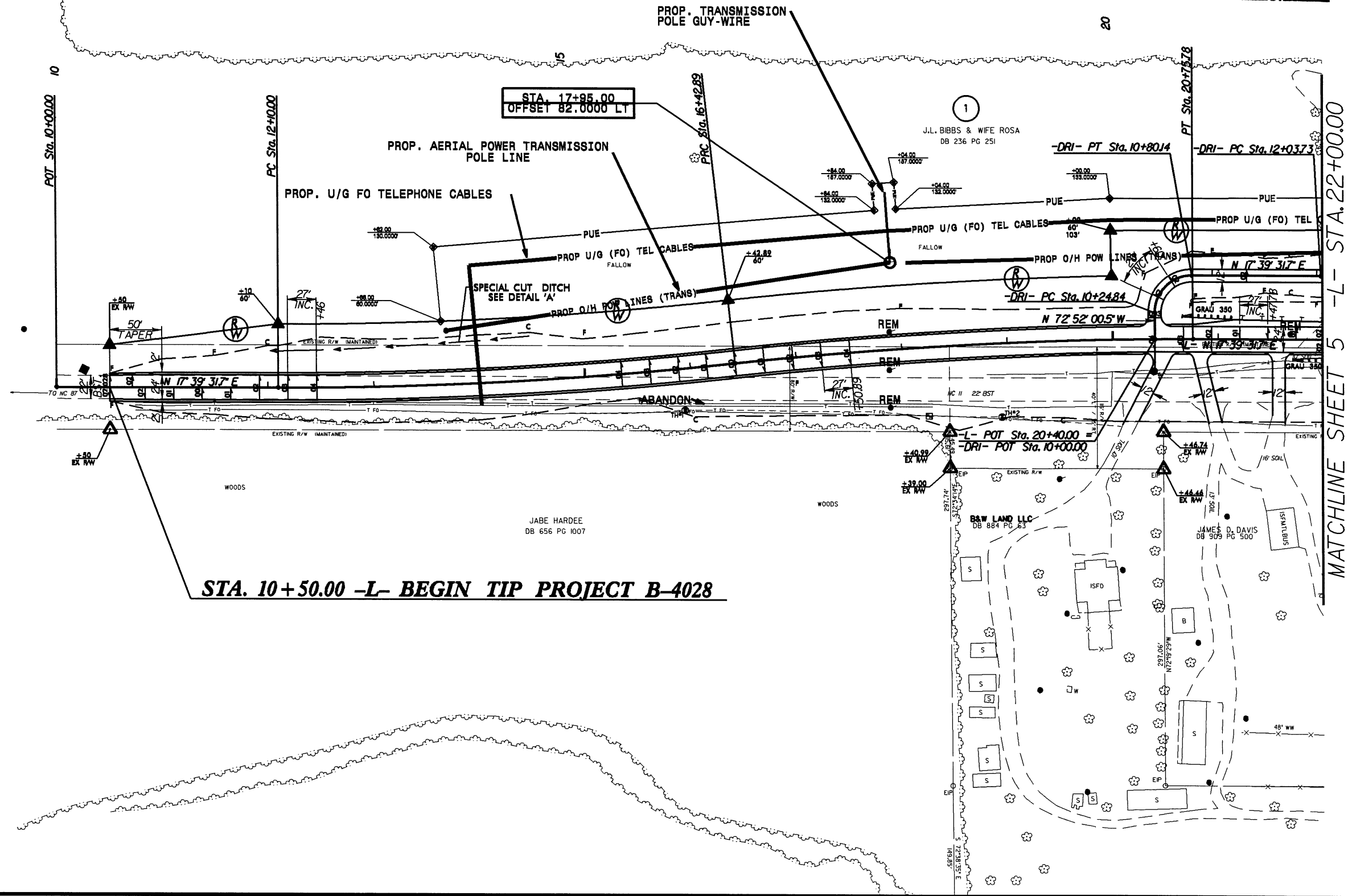
PROJECT REFERENCE NO. B-4028	SHEET NO. 4
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Utility Permit Drawing
Sheet 2 of 7

PROP. U/G FO TELEPHONE CABLES WILL BE INSTALLED UNDER THE CAPE FEAR RIVER AND WETLAND BY DIRECTIONAL BORE



-L-		-DRI-	
PI Sta 14+26.67	PI Sta 18+59.56	PI Sta 10+60.17	PI Sta 12+43.01
$\Delta = 6' 2" 34.8' (LT)$	$\Delta = 6' 2" 34.8' (RT)$	$\Delta = 90' 3" 32.2' (RT)$	$\Delta = 96' 35' 49.4' (LT)$
$D = 1' 28' 08.8"$	$D = 1' 28' 08.8"$	$D = 163' 42' 08.0"$	$D = 163' 42' 08.0"$
$L = 432.89'$	$L = 432.89'$	$L = 55.30'$	$L = 59.0'$
$T = 216.67'$	$T = 216.67'$	$T = 35.32'$	$T = 39.28'$
$R = 3,900.00'$	$R = 3,900.00'$	$R = 35.00'$	$R = 35.00'$
SE = 04	SE = 04		



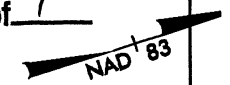
REVISIONS
 03/25/11 R/W REVISION (PJS) - THE PUE WAS CHANGED TO R/W FROM -L- STA. 20+00.00 TO STA. 22+50.00 LT. DUE TO RECONNECTION OF A DRIVE FOR PARCEL I (J.L. BIBBS & WIFE ROSA).

8/17/09
 25-1051-2011 Q1437
 U:\Projects\NEU Permt Plans\4028_r_dj_psh4.dgn
 4/25/2011 10:51 AM

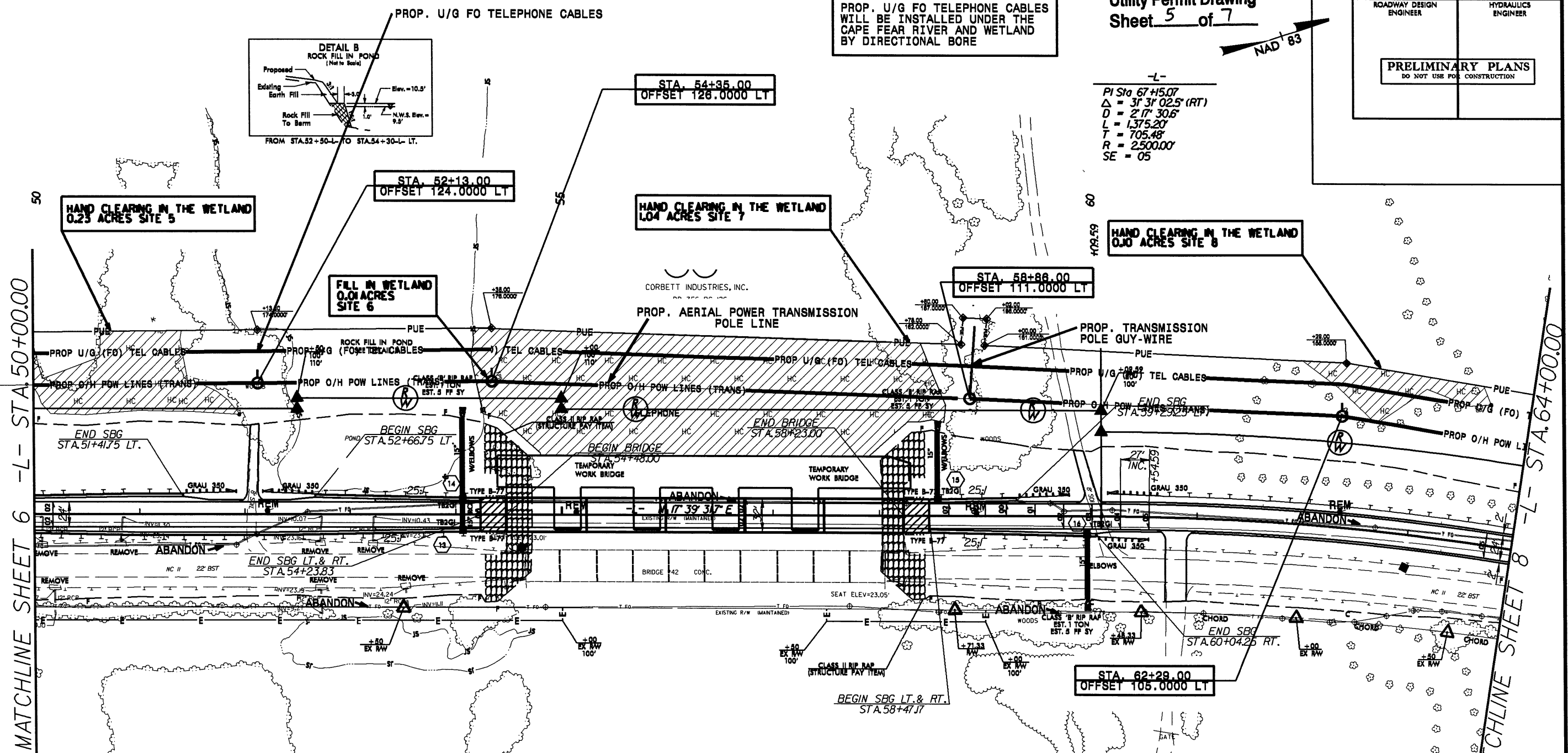
8/17/99

PROJECT REFERENCE NO. B-4028	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Utility Permit Drawing
Sheet 5 of 7



-L-
 PI Sta 67+15.07
 $\Delta = 31' 31" 02.5" (RT)$
 $D = 217' 30.6"$
 $L = 1,375.20'$
 $T = 705.48'$
 $R = 2,500.00'$
 $SE = 05$



PROP. U/G FO TELEPHONE CABLES WILL BE INSTALLED UNDER THE CAPE FEAR RIVER AND WETLAND BY DIRECTIONAL BORE

HAND CLEARING IN THE WETLAND 0.23 ACRES SITE 5

STA. 52+13.00
OFFSET 124.0000 LT

HAND CLEARING IN THE WETLAND 1.04 ACRES SITE 7

FILL IN WETLAND 0.01 ACRES SITE 6

STA. 58+86.00
OFFSET 111.0000 LT

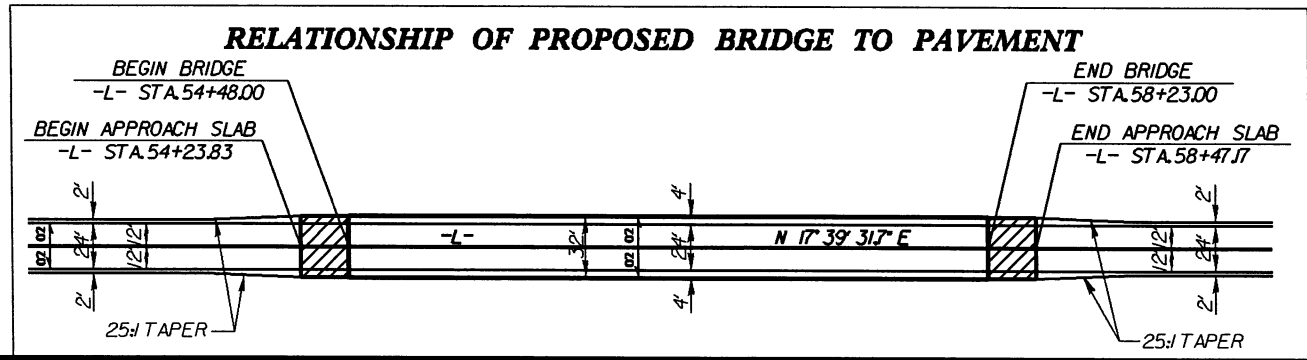
HAND CLEARING IN THE WETLAND 0.10 ACRES SITE 8

MATCHLINE SHEET 6 -L- STA 50+00.00

MATCHLINE SHEET 8 -L- STA 64+00.00

2 22
 CORBETT INDUSTRIES, INC.
 DB 356 PG 126

DENOTES FILL IN WETLAND
 DENOTES HAND CLEARING



REVISIONS

25 OCT-2011 07:38
 R:\UCL\Projects\Rich\108_rdy_pah7.dgn
 USER:RICHARD

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS								
			Permanent Fill in Wetlands (ac)	Temp. Fill in Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)			
1	30+72 to 33+40	Aerial Power Lines						0.26							
2	32+76 to 35+29	Aerial Power Lines						0.35							
3	44+32 to 44+61	Aerial Power Lines						0.01							
4	49+15	Transmission Pole	< 0.01												
5	49+84 to 51+95	Aerial Power Lines						0.23							
6	54+35	Transmission Pole	< 0.01												
7*	57+88 to 58+63	Aerial Power Lines						1.05							
8	61+88 to 63+63	Aerial Power Lines						0.10							
9	65+55	Transmission Pole	< 0.01												
10	64+44 to 67+45	Aerial Power Lines						0.32							
TOTALS:			< 0.01					2.32							

* Wetland is mainly herbaceous.

Utility Permit Drawing
Sheet 7 of 7

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

BLADEN COUNTY
WBS - 33395.1.1 (B-4028)

SHEET #####