



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

Patrick McCrory
GOVERNOR

Tony Tata
SECRETARY

February 18, 2015

Memo To: John Abel, Bridge Maintenance Engineer

From: Clay Willis, Division Environmental Officer

Subject: Permits for Bridge #33 replacement in Hertford County on NC 42 (Academy St.)

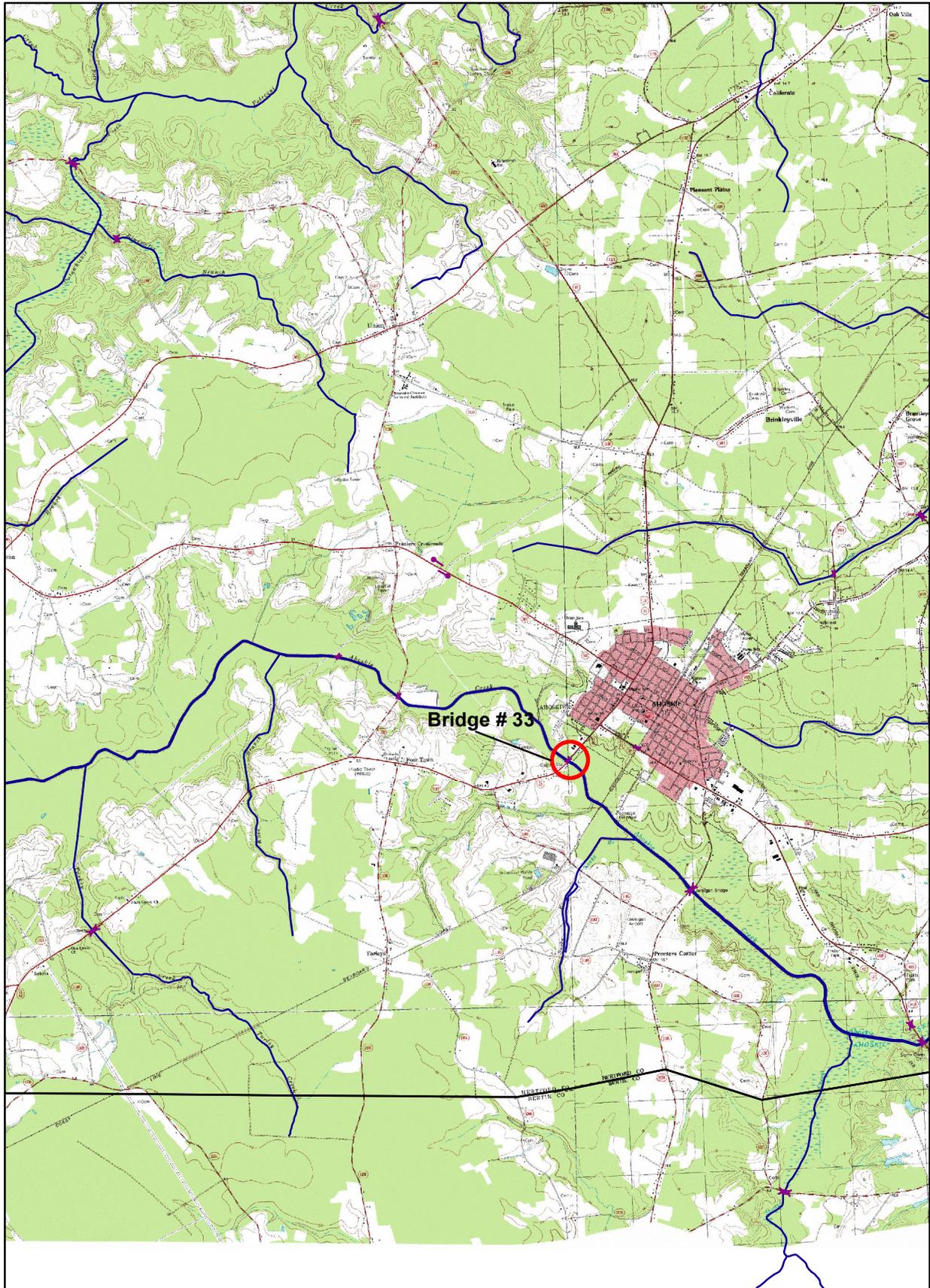
Attached to this memo are CAMA Major Permit No. 22-15 and US Army Corps of Engineers "No Authorization Required" Form for this bridge replacement. The attached permit has conditions that must be adhered to during the construction process for the new bridge. There are permit drawings for the construction of the bridge that depict the absence of fill in jurisdictional wetlands and waters, and include the storm water design, which must be followed. These drawings must be adhered to in order to stay in compliance with the issued permit. Any changes to the bridge design that may impact jurisdictional areas may require a permit modification and additional permits. **If the project limits or design change, the environmental officer needs to be notified in order to request the proper permits or permit modifications. Before construction begins on this project a preconstruction meeting needs to be scheduled with the regulatory agencies. Please, allow two weeks in advance for scheduling of this meeting. A copy of this permit and the attached conditions need to be on the project site during construction of this project.**

Sincerely,
Jerry Jennings, P.E.
Division One Engineer

A handwritten signature in blue ink, appearing to read "Clay Willis".

fov- Clay Willis
Division One Environmental Officer

Bridge Replacement # 33 on NC 42
Ahoskie Creek Hertford County Quad Name Union



Permit Class
NEW

Permit Number
22-15

STATE OF NORTH CAROLINA
Department of Environment and Natural Resources
and
Coastal Resources Commission

Permit

for

Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

Excavation and/or filling pursuant to NCGS 113-229

Issued to N.C. Department of Transportation, 113 Airport Drive, Edenton, NC 27932

Authorizing development in Hertford County at Ahoskie Creek, Bridge No. 33 on NC 42

, as requested in the permittee's application dated 9/17/14, including the
attached workplan drawings (4): 2 dated 9/11/14, 1 dated 9/12/14, and 1 dated as received on 9/29/14.

This permit, issued on 2/16/15, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

Bridge Replacement

- 1) In accordance with commitments made by the permittee in the permit application, turbidity curtains shall be installed along the creek banks at the bridge abutments.
- 2) The authorized activities shall not result in any permanent or temporary impacts to wetlands or waters of the State, without permit modification, except for the installation and removal of bridge piles.
- 3) The bridge shall be constructed using top down construction methodologies with an offsite detour. Any other construction method may require additional authorization from the N.C. Division of Coastal Management (DCM).

(See attached sheets for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date.

Signed by the authority of the Secretary of DENR and the Chairman of the Coastal Resources Commission.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.



Any maintenance work or project modification not covered hereunder requires further Division approval.

Braxton C. Davis, Director
Division of Coastal Management

All work must cease when the permit expires on

This permit and its conditions are hereby accepted.

December 31, 2018

In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signature of Permittee

ADDITIONAL CONDITIONS

- 4) All reasonable efforts shall be made to contain all debris and excess materials associated with the authorized activities with the intent that materials and debris do not enter wetlands or waters of the State, even temporarily.
- 5) The installation and removal of the bridge piles shall be accomplished by pile driving and/or the use of a vibratory hammer. Should the permittee and/or its contractor propose to utilize another type of installation, such as jetting or drilled shaft construction, additional authorization from DCM shall be required.
- 6) Pilings in open water from the existing bridge, as well as any remnant pilings from previous bridges, shall be removed in their entirety, except that in the event that a bridge piling breaks during removal and cannot be removed in its entirety, the bridge piling may be cut off flush with the bed of the water body, and DCM shall be notified of each occurrence within one working day.
- 7) The placement of riprap shall be limited to the areas as depicted on the attached workplan drawings. The riprap material shall be clean and free from loose dirt or any pollutant except in trace quantities.
- 8) Any waste materials and debris associated with construction, demolition, or other activities shall be disposed of at an approved upland site or shall be recycled in an environmentally appropriate manner provided appropriate authorizations are obtained from any relevant state, federal, or local authorities.
- 9) All excavated materials shall be confined above normal water level and landward of regularly or irregularly flooded wetlands behind adequate dikes or other retaining structures to prevent spillover of solids into any wetlands or surrounding waters.
- 10) Live concrete shall not be allowed to contact waters of the State or water that will enter waters of the State.
- 11) All construction access shall be through the use of the existing bridge, the partially constructed new bridge, and/or existing high ground areas.

Utility Relocations

NOTE: The construction of the new bridge will also require the relocation of water and power lines. No impacts to wetlands or waters of the State will result from the utility relocations.

- 12) Any utility work associated with this project that is not specifically depicted on the attached workplan drawings, or described within the attached permit application, shall require approval from DCM, either under the authority of this permit, or by the utility company obtaining separate authorization.

NOTE: Plans and specifications for the relocation and/or replacement of potable water supply lines must be submitted to the N.C. Division of Water Resources, Public Water Supply Plan Review Section for approval prior to construction. Final approval must be issued before water mains are placed into service.

ADDITIONAL CONDITIONS

Sedimentation and Erosion Control

- 13) This project shall conform to all requirements of the N.C. Sedimentation Pollution Control Act and the N.C. Department of Transportation's (NCDOT's) Memorandum of Agreement with the N.C. Division of Energy, Mineral, and Land Resources.

General

- 14) No attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work following completion of construction.
- 15) During bridge construction, the permittee shall make every attempt to maintain the same navigation that is currently possible in Ahoskie Creek, upstream and downstream of the existing bridge.
- 16) The permittee shall exercise all available precautions in the day-to-day operation of the facility to prevent waste from entering the adjacent waters and wetlands.
- 17) If it is determined that additional permanent and/or temporary impacts are necessary that are not shown on the attached workplan drawings or described in the authorized permit application, a permit modification and/or additional authorization from DCM may be required. In addition, any changes in the approved plan may also require a permit modification and/or additional authorization from DCM.
- 18) Development authorized by this permit shall only be conducted on lands owned by NCDOT and/or its right-of-ways and/or easements.
- 19) The permittee and/or its contractor shall contact the DCM Transportation Project Field Representative in Elizabeth City at (252) 264-3901 to request a preconstruction conference prior to project initiation.

NOTE: The N.C. Division of Water Resources determined that there is no 401 Water Quality Certification required for this project. However, compliance with the conditions of General Permit – NCG01000 is required to ensure compliance with state water quality standards and the National Pollutant Discharge Elimination System (NPDES) requirements of the Clean Water Act.

NOTE: The U.S. Army Corps of Engineers issued a determination of No Authorization Required on 1/12/15 (COE Action ID No. SAW-2015-00077).

NOTE: This permit does not eliminate the need to obtain any additional permits, approvals or authorizations that may be required.

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action ID. SAW-2015-00077

County: Hertford

NO DEPARTMENT OF THE ARMY AUTHORIZATION REQUIRED

Property Owner / Agent: North Carolina Department of Transportation

Address: 113 Airport Road, Suite 100
Edenton, North Carolina 27932

Telephone Number: 252-482-1876

Size and Location of Property (waterbody, road name/number, town, etc.): Project area is located on NC 42 over Ahoskie Creek near Ahoskie in Hertford County, North Carolina.

Description of Activity: NCDOT proposes to replace the existing Bridge 33 and associated utilities over Ahoskie Creek on NC Highway 42 near Ahoskie in Hertford County, North Carolina.

Your work as proposed does not require Department of the Army authorization for the following reason(s):

- There are no jurisdictional waters or wetlands within the boundaries of the property.
- The proposed project does not impact jurisdictional waters or wetlands.
- The proposed project is exempt from Department of the Army regulation.
Specify: _____.

This Department of the Army determination does not relieve the permittee of the responsibility to obtain any other required Federal, State, or local approvals/permits. The permittee may need to contact appropriate State and local agencies before beginning work.

For any activity within the twenty coastal counties, before beginning work, you must contact the N.C. Division of Coastal Management in Elizabeth City, North Carolina, at (252) 264-3901 to discuss any required State authorization.

Any changes in the above described work must be coordinated with the Corps of Engineers prior to commencement. If you have any questions regarding the Corps of Engineers regulatory program, please contact Tracey Wheeler at telephone number (910) 251-4627.

Regulatory Project Manager Signature WHEELER.TRACEY.L.127189518 2

Digitally signed by WHEELER.TRACEY.L.127189518
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA,
cn=WHEELER.TRACEY.L.127189518
Date: 2015.01.12.12:08:43-05'00'

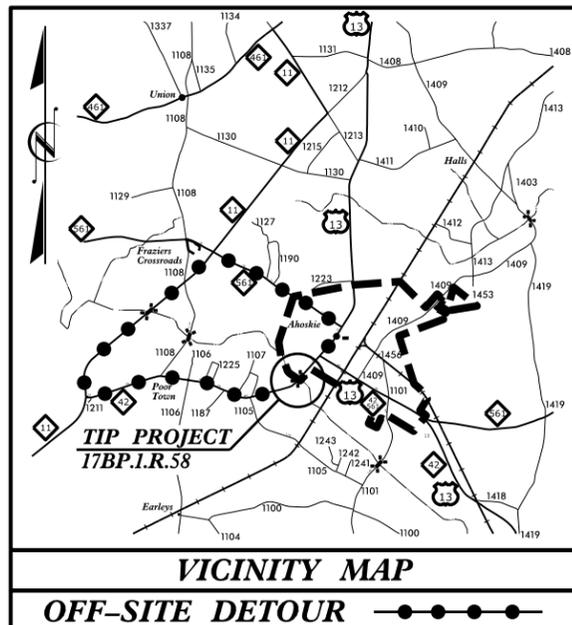
Date: 01/12/2015

SURVEY PLATS, FIELD SKETCH, WETLAND DELINEATION FORM, ETC., MUST BE ATTACHED TO THE YELLOW (FILE) COPY OF THIS FORM, IF REQUIRED OR AVAILABLE.

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at <http://regulatory.usacesurvey.com/> to complete the survey online.

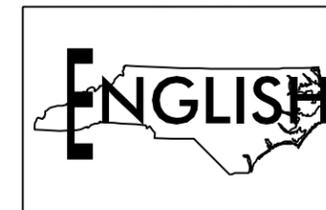
CONTRACT: TIP PROJECT: 17BP.1.R.58

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



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HERTFORD COUNTY



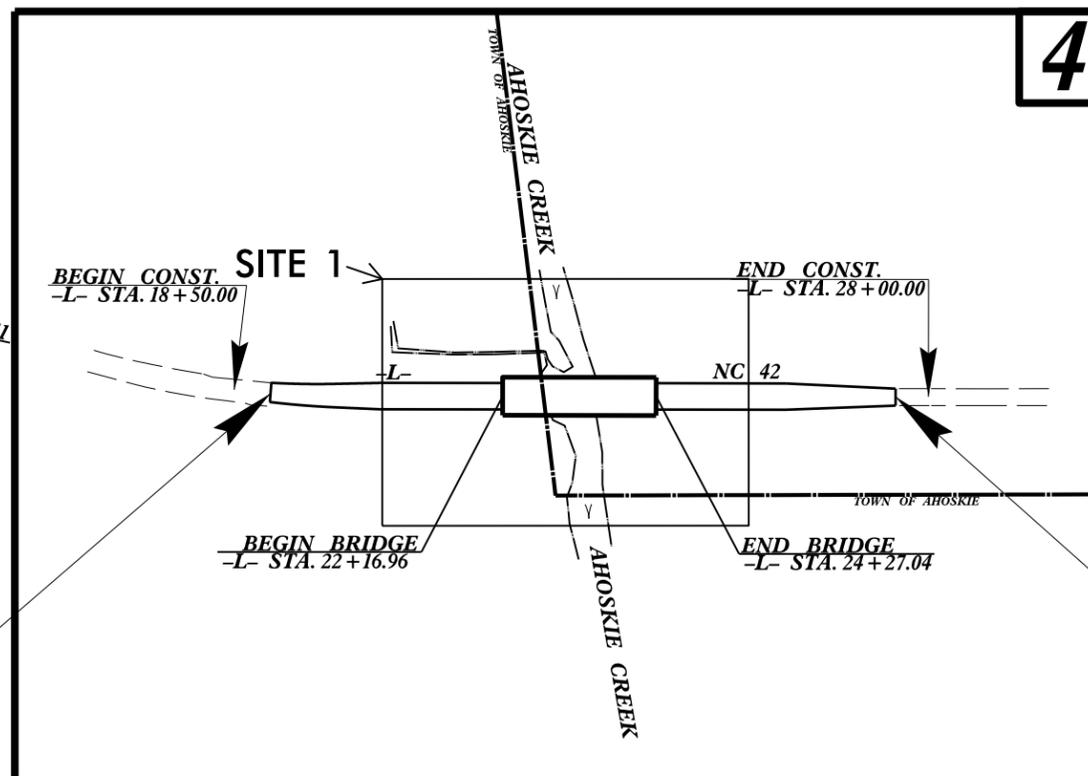
**LOCATION: BRIDGE NO. 33 OVER AHOSKIE CREEK ON NC 42
IN AHOSKIE**

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

WETLAND/SURFACE WATER PERMIT DWG.

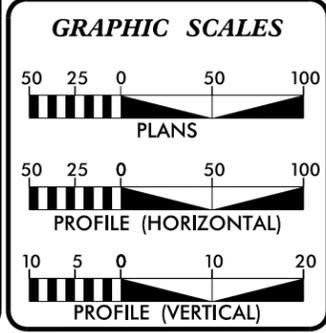
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.1.R.58	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.1.R.58		PE	
17BP.1.R.58		UTIL. & ROW	
17BP.1.R.58		CONST.	

PERMIT DRAWING
SHEET 1 OF 5



BEGIN TIP PROJECT 17BP.1.R.58
-L- STA. 19+00.00

END TIP PROJECT 17BP.1.R.58
-L- STA. 27+55.00



DESIGN DATA

ADT 2011 =	8,400
ADT 2033 =	12,600
DHV =	10 %
D =	60 %
T =	7 % *
V =	50 MPH
* TTST =	3% DUAL 4%
FUNC CLASS =	
MAJOR COLLECTOR	
REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT 17BP.1.R.58	=	0.122 MILES
LENGTH STRUCTURE TIP PROJECT 17BP.1.R.58	=	0.040 MILES
TOTAL LENGTH TIP PROJECT 17BP.1.R.58	=	0.162 MILES

WETHERILL ENGINEERING

Prepared for the North Carolina Department of Transportation in the Office of:
559 JONES FRANKLIN ROAD
SUITE 104
RALEIGH, N.C. 27606
Licence No. F-0377
Box: 919 851 8077
Fax: 919 851 8107

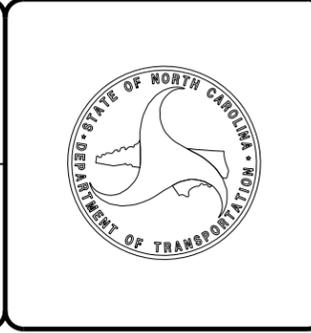
2012 STANDARD SPECIFICATIONS	EDWARD G. WETHERILL, PE PROJECT ENGINEER
RIGHT OF WAY DATE:	
LETTING DATE:	BOB A. MAY, PE PROJECT DESIGN ENGINEER
NCDOT CONTACT:	JOHN S. ABEL, JR. DIVISION 1 BRIDGE PROGRAM MANAGER

HYDRAULICS ENGINEER

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

SIGNATURE: _____



09/11/2014
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DON\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

WETLAND/SURFACE WATER PERMIT DWG.

PROJECT REFERENCE NO. 17BPJR.58	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

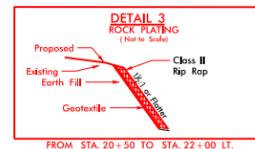
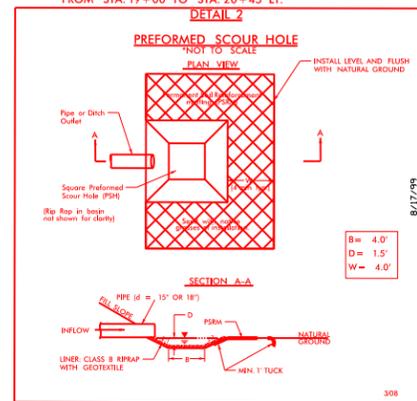
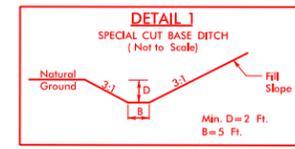


PERMIT DRAWING
SHEET 2 OF 5

PROPOSED BRIDGE
3@70' 45" PCG
2'-6" DEEP CAP
SKEW = 90
C GRADE ELEV = 38.07'09'

EXISTING BRIDGE NO. 33
1@22'9"; 7@22'; 1@22'9" RC SLAB
ON PRESTRESSED CONC. CHANNELS
ON RC CAP AND TIMBER PILES

	PERM FILL IN WETLANDS (Ac)	PERM. SW IMPACTS (Ac)	TEMP. SW IMPACTS (Ac)	EXISTING CHANNEL IMPACTS PERM (ft.)
SITE 1	0.00	0.00	0.0	0.0



- NOTES:
- 1) MODIFIED METHOD II CLEARING (HAND CLEARING)
 - 2) LOCATED IN A CAMA COUNTY
 - 3) CHOWAN RIVER BASIN
 - 4) AHOSKIE CREEK IS A BLUE LINE ON THE USGS QUAD MAP

GRASS SWALE DATA

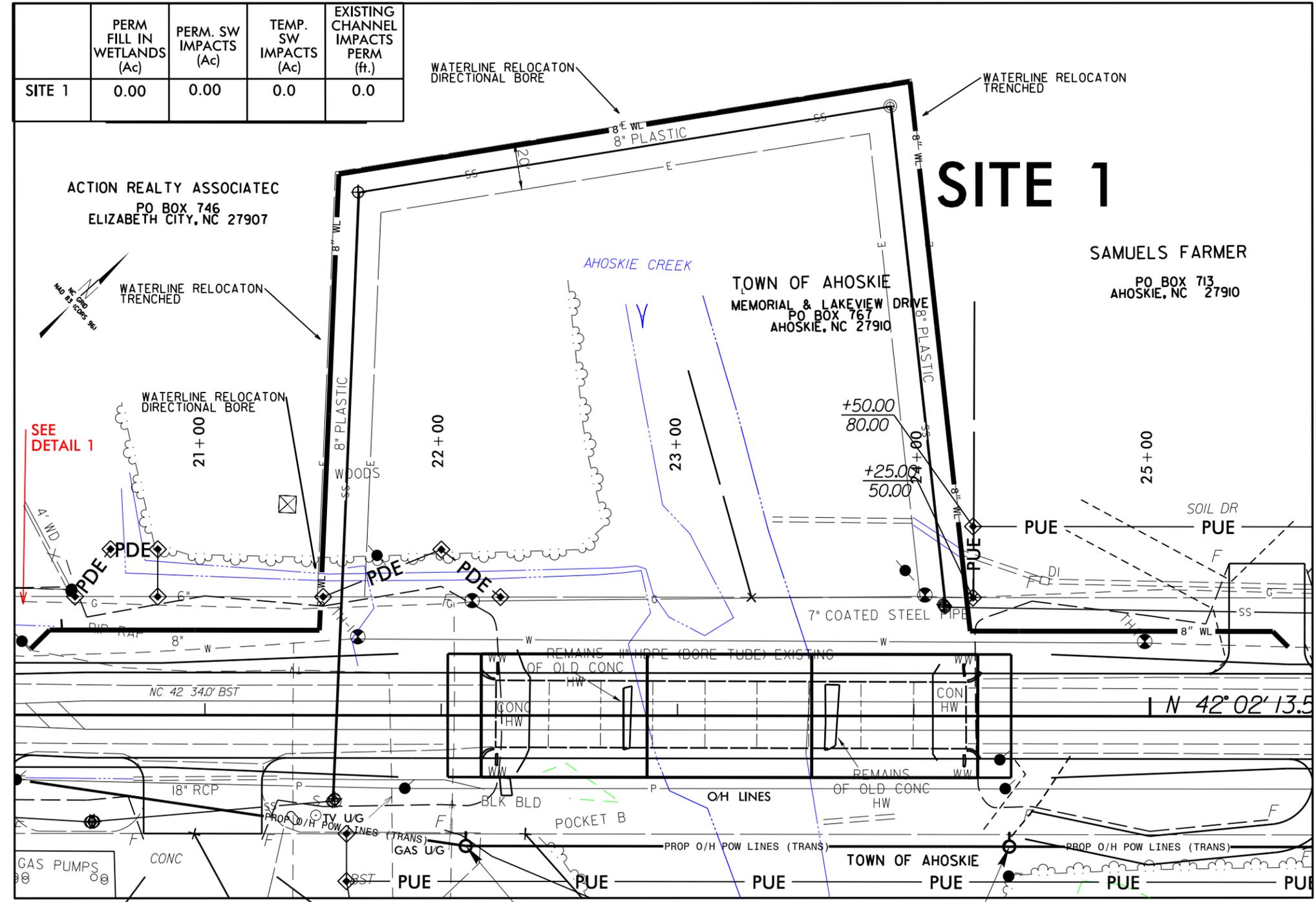
DA =	2.9	acres
SLOPE =	1	ft/ft
L REQ =	290	ft
L PRO =	287	ft
Q2 =	7.9	cfs
V2 =	1.5	fps
D2 =	0.7	ft
Q10 =	10	cfs
V10 =	1.7	fps
D10 =	0.8	ft

STA. 19+00 TO 20+50 LT
*ADDITIONAL 137 FT OF EXISTING SWALE

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	4637	CFS
DESIGN FREQUENCY	=	50	YRS
DESIGN HW ELEVATION	=	30.4	FT
BASE DISCHARGE	=	6232	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	31.5	FT
OVERTOPPING DISCHARGE	=	5300	CFS
OVERTOPPING FREQUENCY	=	50+	YRS
OVERTOPPING ELEVATION	=	30.6	FT

DATE OF SURVEY	=	9/5/13	
W.S. ELEVATION AT DATE OF SURVEY	=	17.4	FT



KKD ENTERPRISES LLC
105 CUB LANE
LEBANON, PA 17042

KAYSEA PROPERTIES
AHOSKIE LLC
611 CROCKER HILL RD
ELIZABETH CITY, NC 27909

NOTE: EXISTING POLES AND POWERLINE WILL BE REMOVED
RELOCATED POWER POLES



REVISIONS

8/17/99
09/11/2014
*****DGN*****
*****PLT*****

WETLAND/SURFACE WATER PERMIT DWG.

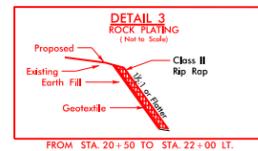
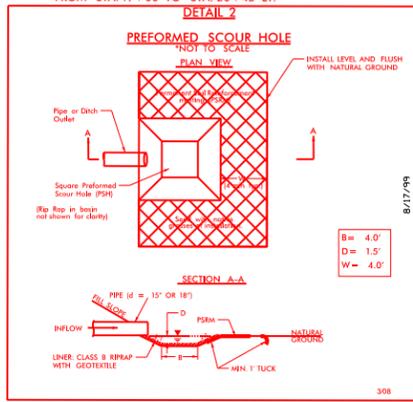
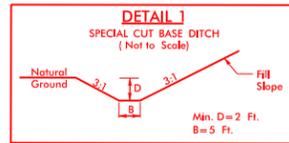
PROJECT REFERENCE NO. 17BPJR.58	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



PROPOSED BRIDGE
 3@70' 45" PCG
 2'-6" DEEP CAP
 SKEW = 90
 C GRADE ELEV = 38.07'09"

EXISTING BRIDGE NO. 33
 1@22'9"; 7@22'; 1@22'9" RC SLAB
 ON PRESTRESSED CONC. CHANNELS
 ON RC CAP AND TIMBER PILES

PERMIT DRAWING
 SHEET 3 OF 5



- NOTES:
- 1) MODIFIED METHOD II CLEARING (HAND CLEARING)
 - 2) LOCATED IN A CAMA COUNTY
 - 3) CHOWAN RIVER BASIN
 - 4) AHOSKIE CREEK IS A BLUE LINE ON THE USGS QUAD MAP

GRASS SWALE DATA

DA =	2.9	acres
SLOPE =	1	ft/ft
L REQ =	290	ft
L PRO =	287	ft
Q2 =	7.9	cfs
V2 =	1.5	fps
D2 =	0.7	ft
Q10 =	10	cfs
V10 =	1.7	fps
D10 =	0.8	ft

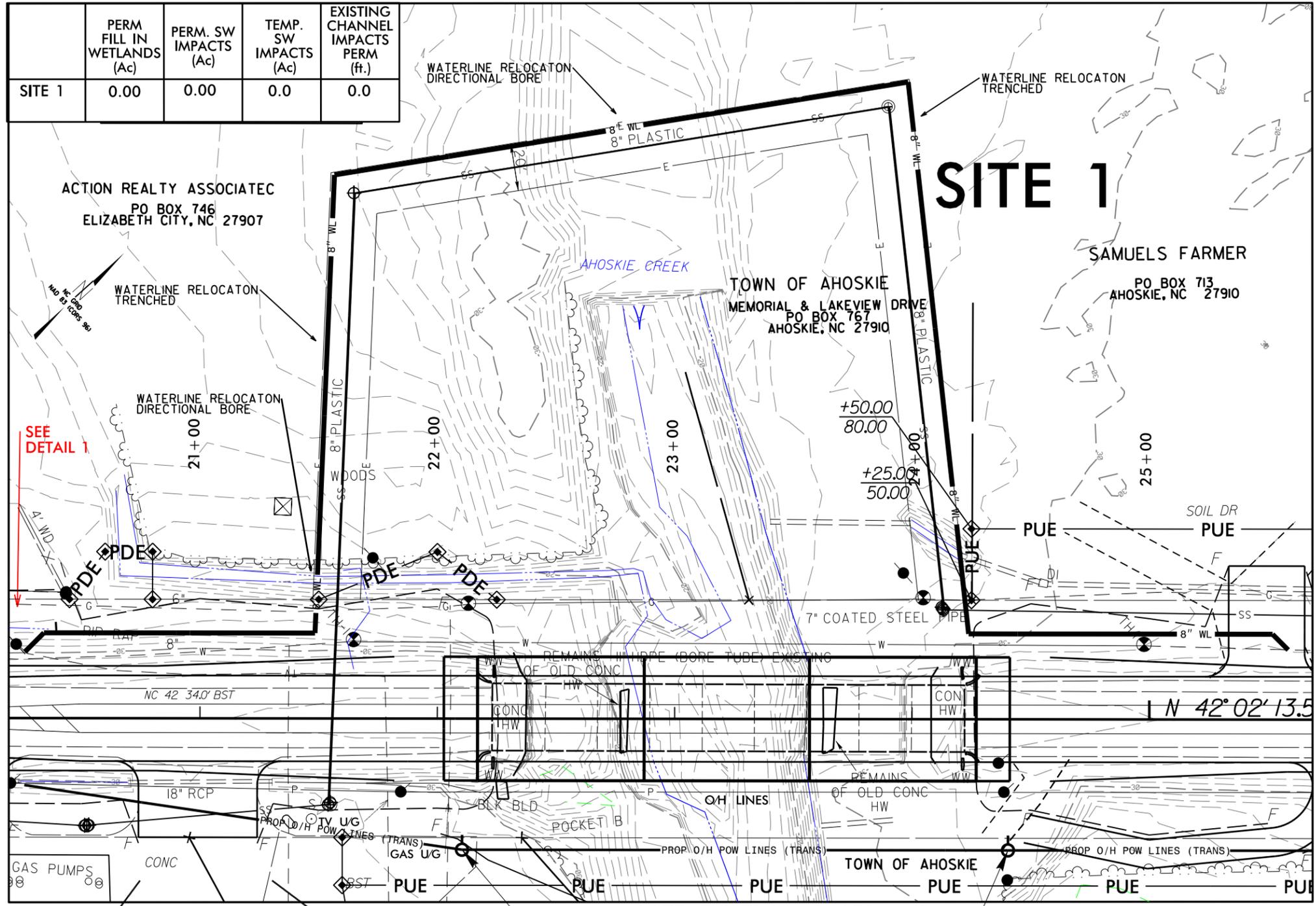
STA. 19+00 TO 20+50 LT
 *ADDITIONAL 137 FT OF EXISTING SWALE

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 4637	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 30.4	FT
BASE DISCHARGE	= 6232	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 31.5	FT
OVERTOPPING DISCHARGE	= 5300	CFS
OVERTOPPING FREQUENCY	= 50+	YRS
OVERTOPPING ELEVATION	= 30.6	FT

DATE OF SURVEY	= 9/5/13	
W.S. ELEVATION AT DATE OF SURVEY	= 17.4	FT

SITE 1	PERM FILL IN WETLANDS (Ac)	PERM. SW IMPACTS (Ac)	TEMP. SW IMPACTS (Ac)	EXISTING CHANNEL IMPACTS PERM (ft.)
SITE 1	0.00	0.00	0.0	0.0



KKD ENTERPRISES LLC
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 LEBANON, PA 17042

KAYSEA PROPERTIES
 AHOSKIE LLC
 611 CROCKER HILL RD
 ELIZABETH CITY, NC 27909

NOTE: EXISTING POLES AND POWERLINE WILL BE REMOVED
 RELOCATED POWER POLES



REVISIONS

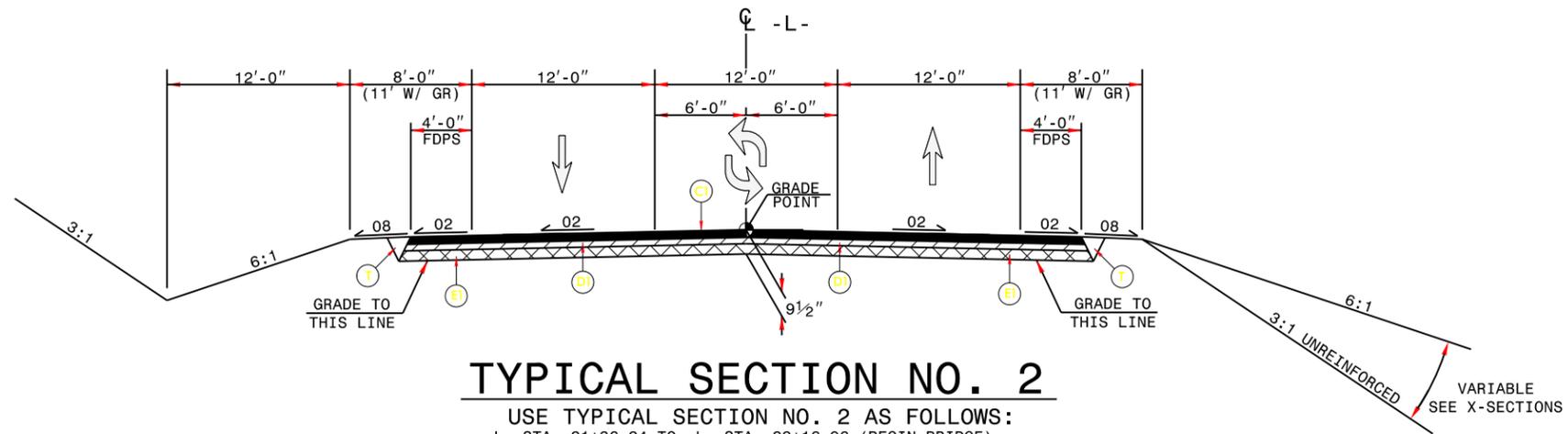
8/17/99
 09/11/2014
 *****DGN*****
 *****PLN*****
 *****CON*****

6/2/99

PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	3" S9.5B
C2	VAR. S9.5
D1	2 1/2" I19.0B
D2	VAR. I19.0B
E1	4" B25.0B
E2	VAR. B25.0B
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

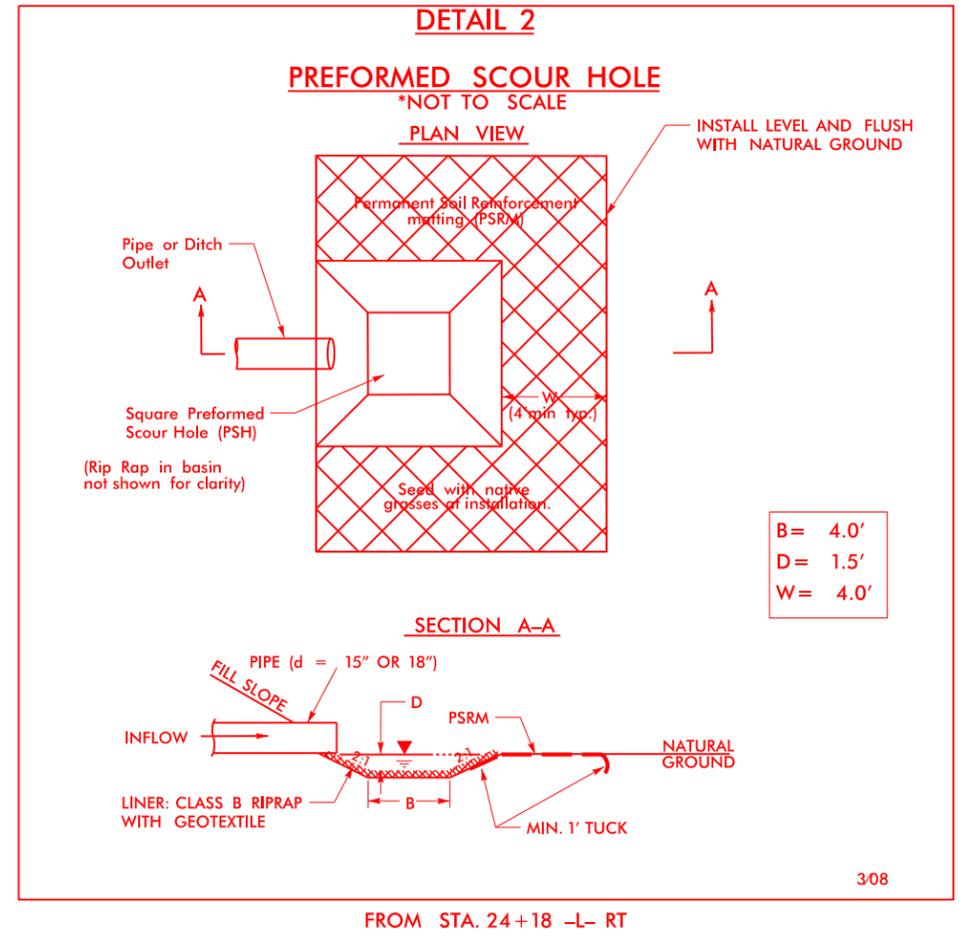
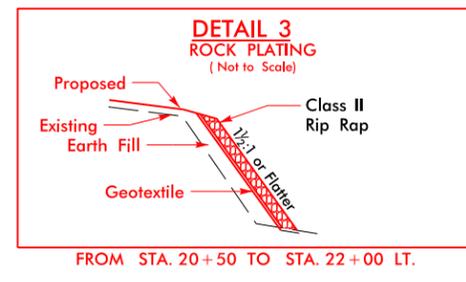
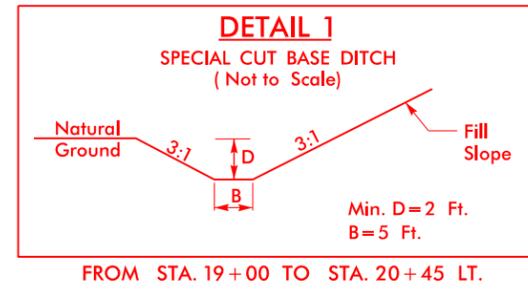
PROJECT REFERENCE NO. 17BPJR.58	SHEET NO. 2-A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<small>559 Jones Franklin Rd. Suite 164 Raleigh, N.C. 27606 License No. E-0377 Bus: 919 851 8077 Fax: 919 851 8107</small>	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</small>	

PERMIT DRAWING
SHEET 5 OF 5



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:
 -L- STA. 21+36.24 TO -L- STA. 22+16.96 (BEGIN BRIDGE)
 -L- STA. 24+27.04 (END BRIDGE) TO -L- STA. 25+43.25



SYTIME
 990909