



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

August 24, 2006

MEMORANDUM TO: Mr. Michael L. Holder, PE
Division 12 Engineer

FROM: Philip S. Harris, III, P.E., Unit Head *P. S. Harris*
Natural Environment Unit
Project Development and Environmental Analysis Branch

SUBJECT: Lincoln & Catawba Counties, Relocation of NC 16 from
NC 73 on the south to SR 1895 at existing NC 16 on the
north; T.I.P. Number R-2206 B&C; Federal Aid Project
STP-F-24-1(34); State Project 8.1830501

Attached is the modification to the U. S. Army Corps of Engineers 404 Individual Permit and the special conditions for the 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

Cc:

Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design
Dr. David Chang, P.E., Hydraulics
Mr. Randy Garris, P.E. State Contract Officer
Mr. Art McMillan, P.E., Highway Design
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. John F. Sullivan, FHWA
Ms. Teresa Hart, P.E., PDEA Western Region Unit Head
Ms. Trish Simon, Division Environmental Officer

PROJECT COMMITMENTS

Lincoln & Catawba Counties

Relocation of NC 16 from NC 73 on the south to SR 1895 at existing NC 16 on the north

Federal Aid Project STP-F-24-1(34)

State Project 8.1830501

TIP No. R-2206 B & C

In addition to the Regional General Permit Conditions, Section 404 Only Conditions, Regional Conditions, State Consistency Conditions, General Certification Conditions, and the Section 401 Conditions of Certification, the following Special Commitments have been agreed to by NCDOT:

There are no conditions contained in this modification.

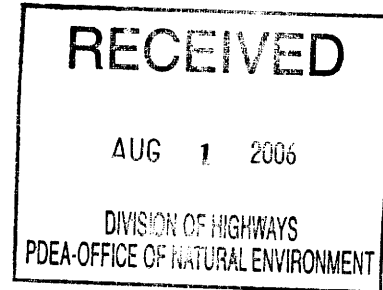


DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS

P. O. BOX 1890
WILMINGTON, NORTH CAROLINA 28402-1890

IN REPLY REFER TO

July 26, 2006



Regulatory Division

Action ID No. 200431320, TIP R-2206 B/C

Gregory J. Thorpe, Ph.D., Director
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Reference the Department of the Army permit issued on October 7, 2004 to the North Carolina Department of Transportation to discharge dredged or fill material into 6.21 acres of wetland, 13,321 linear feet of stream channel and 4.47 acres of open water ponds in and adjacent to the waters of Forney Creek, Killian Creek, Reed Creek and unnamed tributaries to facilitate the relocation of 10.6 miles of NC Highway 16 from NC Highway 73 on the south to SR 1895 (Tower Road) at existing NC Highway 16 on the north, west of Denver, Lincoln and Catawba Counties, North Carolina (TIP No. R-2206B/C). Also reference your written request of June 12, 2006 to conduct the following additional work in waters and wetlands: 1) install 70 linear feet of riprap bank stabilization at the Killian Creek Bridge (Station 199+30), 2) install 65 linear feet of riprap bank stabilization at the Reed Creek Bridge (Station 256+70), 3) fill .09 acres of wetland for a temporary detour at Permit Site 17C (Y14, Station 20+00) and 4) extend a riprap ditch 90 feet into wetlands at Permit Site 15C (Station 266+40).

The permit is hereby modified to include the work as shown on the enclosed plans. These modifications will not result in any stream channel loss and additional impacts to wetlands will be minimal. It is understood that all conditions of the original permit remain applicable and that the expiration date is unchanged.

If you have any questions, please contact Mr. Steven Lund, Asheville Field Office, Regulatory Division, telephone (828) 271-7980, extension 223.

Sincerely,

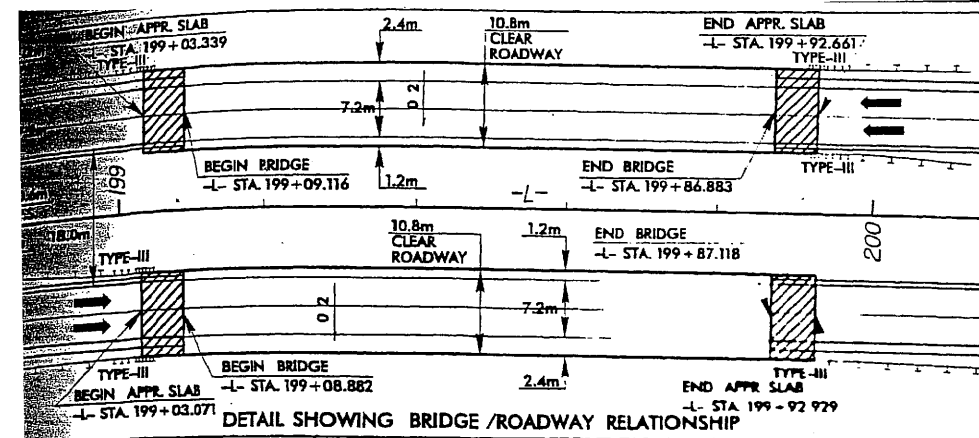
for John E. Pulliam, Jr.
Colonel, U.S. Army
District Commander

Enclosures

Copies furnished w/enclosures:

Director, Atlantic Marine Center
National Ocean Survey, NOAA
Attention: CAM04
439 West York Street
Norfolk, Virginia 23510

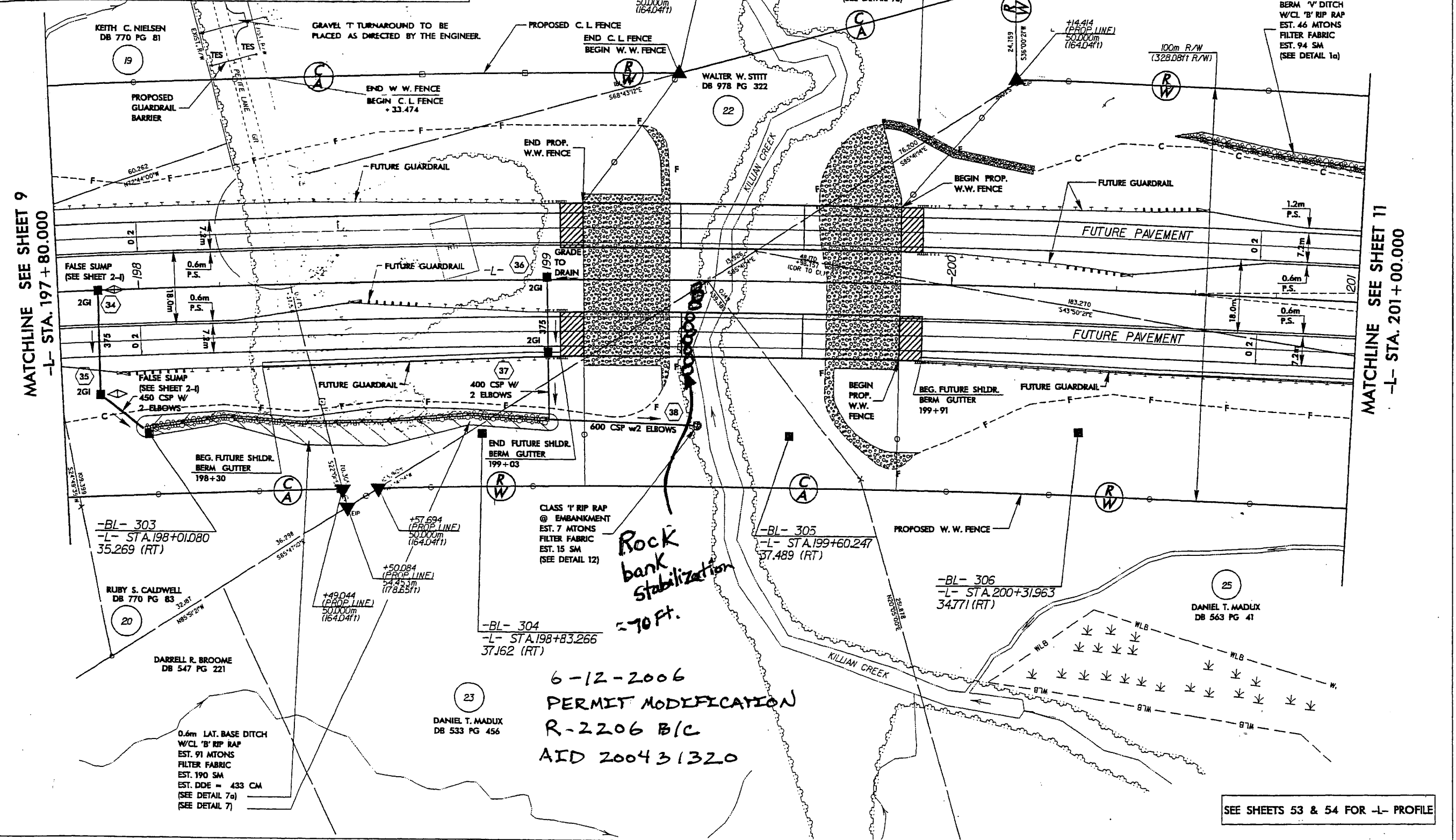
M.L. Holder, Division Engineer
NC Department of Transportation, Division 12
Post Office Box 47
Shelby, North Carolina 28151



SEE SHEETS S-32 THRU S-101 FOR STRUCTURE PLANS

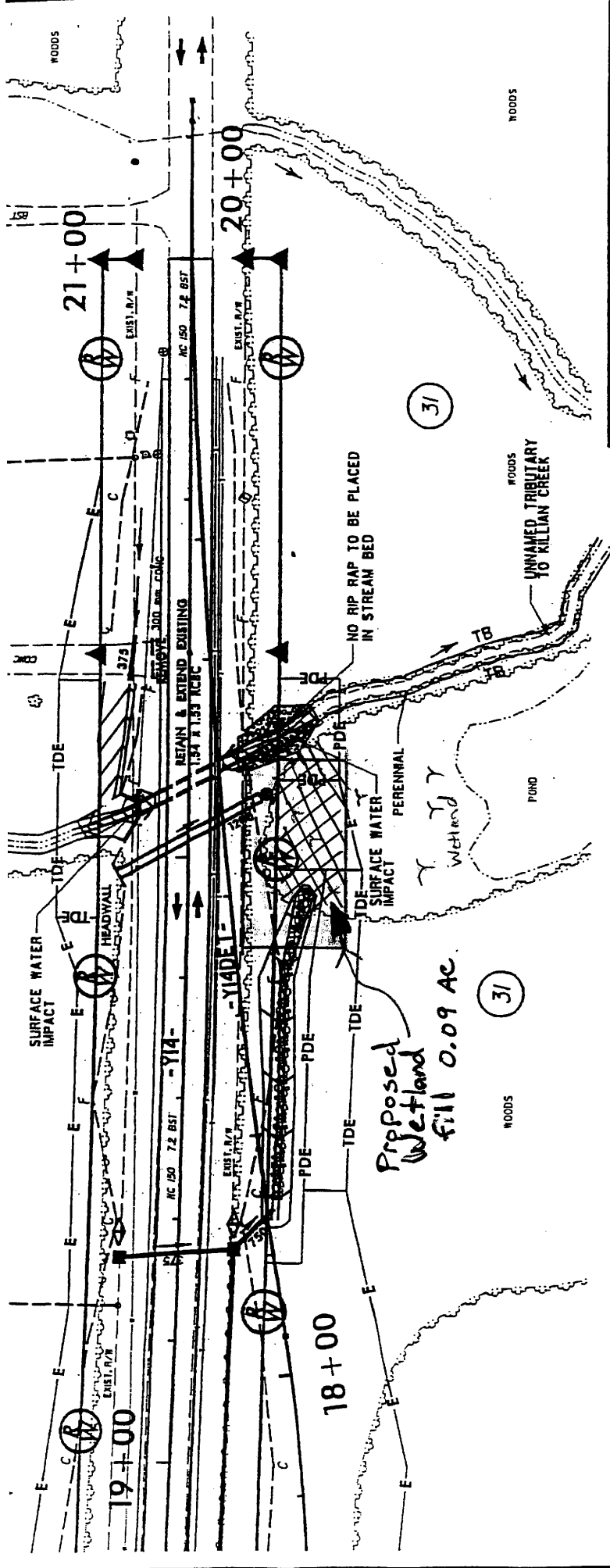
PI Sta 199+75.908
 $\Delta = 25^\circ 54' 22.0''$ (RT)
 $L = 1,356.441$
 $R = 3,000.000$
 $e = 0.02$
 $RO = 35m$

	PROJECT REFERENCE NO.	SHEET NO.
	R-2206C	10
	R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
CONST. REV.		
R/W REV.		



6-12-2006
 PERMIT MODIFICATION
 R-2206 B/C
 AID 200431320

SEE SHEETS 53 & 54 FOR -L- PROFILE



N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 LINCOLN & CATAWBA COUNTIES
 PROJECT: 34865.11 (R-2206C)
 NC-16 BYPASS

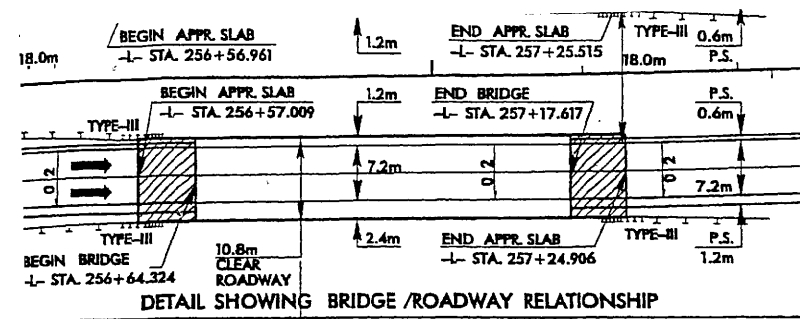
6-12-2006
 PERMIT MODIFICATION PLAN VIEW
 R-2206 B/C
 AID 200431320



DENOTES SURFACE WATER
 IMPACT (NATURAL)

SHEET 21 OF 35

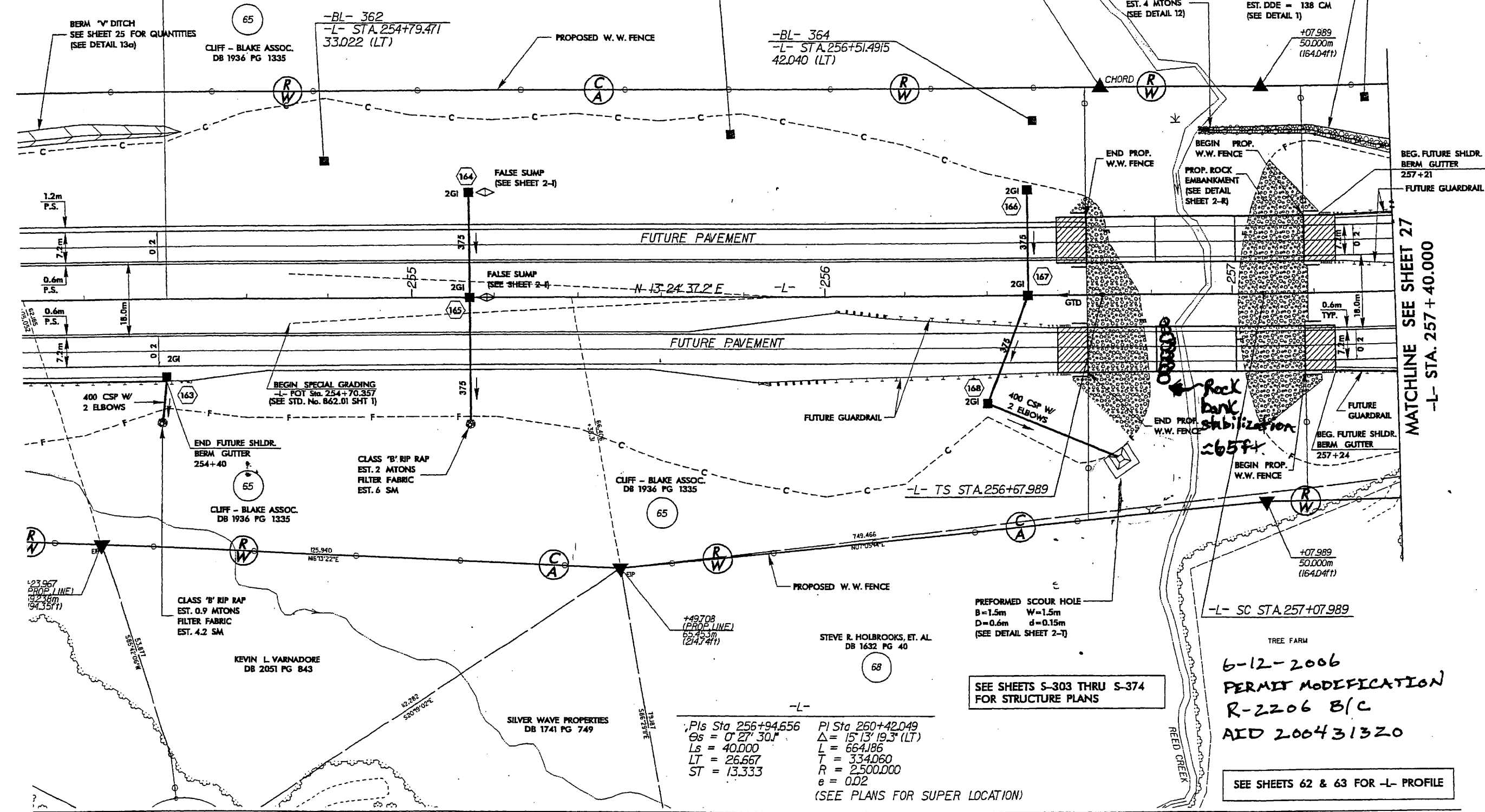
1/16/04
 REVISED 4/29/04



CONST. REV. _____
R/W REV. _____

PROFESSIONAL SEAL
15356
ENGINEER
DAVID ALLEN
9-2-04

NORTH CAROLINA PROFESSIONAL SEAL
14160
ENGINEER
DOUGLAS B. HARRIS
9/24/04



-L-
PIs Sta 256+94.656
Os = 0° 27' 30.1"
Ls = 40.000
LT = 26.667
ST = 13.333

PI Sta 260+42.049
Δ = 15° 13' 19.3" (LT)
L = 664.186
T = 334.060
R = 2,500.000
e = 0.02
(SEE PLANS FOR SUPER LOCATION)

-L- SC STA. 257+07.989

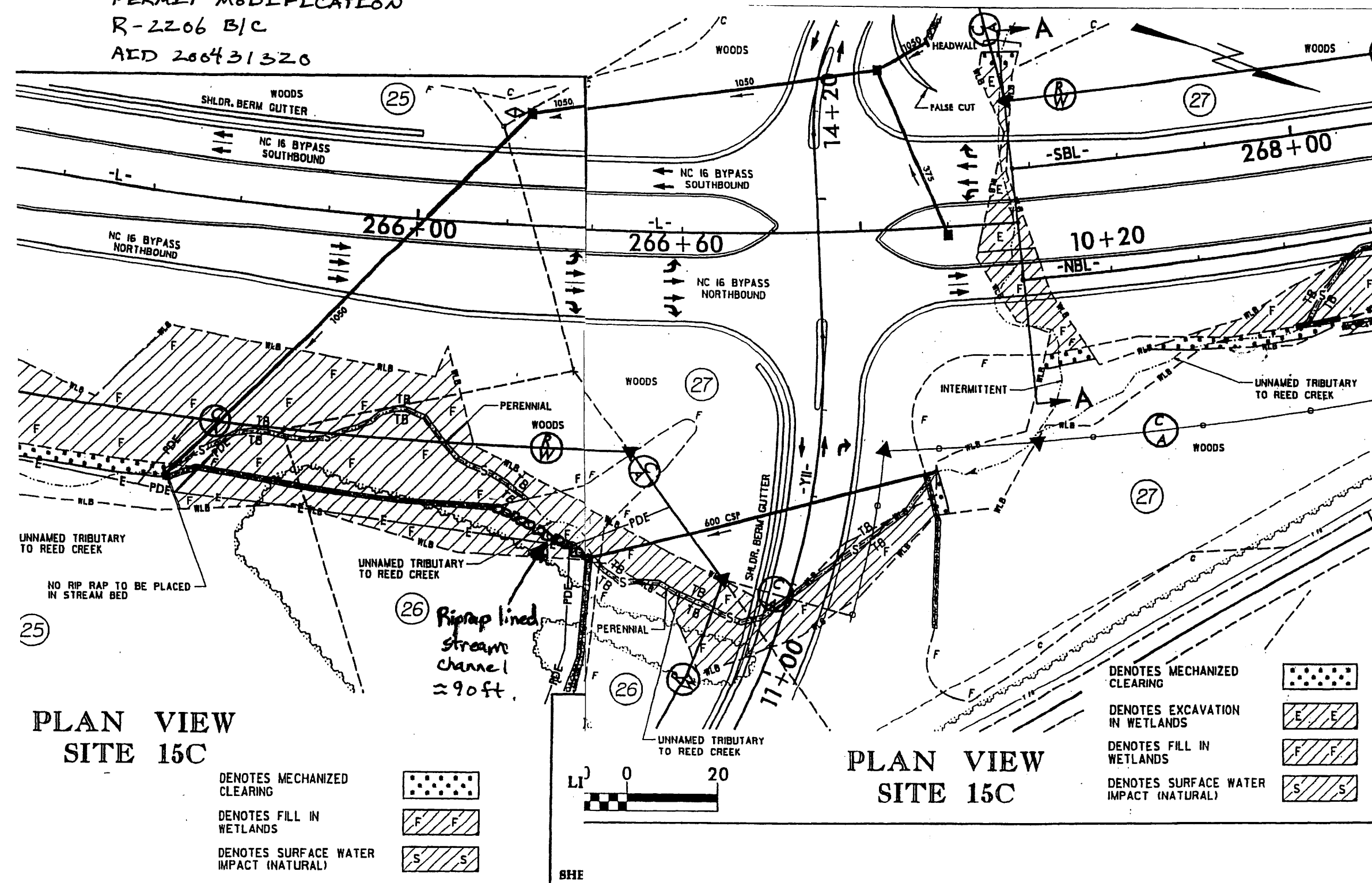
TREE FARM

6-12-2006
PERMIT MODIFICATION
R-2206 B/C
AID 200431320




SEE SHEETS 62 & 63 FOR -L- PROFILE

SEE SHEETS S-303 THRU S-374
FOR STRUCTURE PLANS





6-12-2006
 PERMIT MODIFICATION
 R-2206 B/C
 AID 200431320

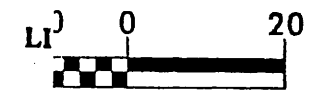


PLAN VIEW
 SITE 15C

- DENOTES MECHANIZED CLEARING 
- DENOTES FILL IN WETLANDS 
- DENOTES SURFACE WATER IMPACT (NATURAL) 

PLAN VIEW
 SITE 15C

- DENOTES MECHANIZED CLEARING 
- DENOTES EXCAVATION IN WETLANDS 
- DENOTES FILL IN WETLANDS 
- DENOTES SURFACE WATER IMPACT (NATURAL) 



BHE