



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

August 14, 2008

U.S. Army Corps of Engineers
Asheville Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Mr. Steve Lund
MCDOT Coordinator

Subject: **Application for Modification to Individual Permit** for NC 16 from north of SR 1386 in Lincoln County to North of SR 1895 in Catawba County. Federal Aid Project No. STP-F-24-1(34) State Project No. 8.1830501. **TIP Project No. R-2206B/C.** \$570.00 Debit from WBS Element No. 34383.1.5.

Reference: - USACE Individual Permit, dated October 7, 2004 (Action ID 200420899) and subsequent modifications.
- NCDENR-DWQ Water Quality Certification No. 3476, dated September 21, 2004 (DWQ Project No. 04-1024) and subsequent modifications.

Dear Mr. Lund:

The purpose of this letter is to request a modification to the Clean Water Act (CWA) Section 404 Permit issued by the U.S. Army Corps of Engineers (USACE) and to the 401 Water Quality Certification issued by the North Carolina Department of Environment and Natural Resources, Division of Water Quality (DWQ). This project is currently under construction. The North Carolina Department of Transportation (NCDOT) is requesting a permit modification for the work to be completed at Sites 15C and 16C (see Mod Sheets 1 - 5 of 5). Copies of Sheet 17 of 35 & Sheet 20 of 35 from the original permit, depicting the currently permitted activities at Sites 15C and 16C, respectively, are also attached.

Permit Site 15C, Station -L- 267+70 to 11+54-L-RT

To improve the stability of the ditch at this site, NCDOT has re-designed the ditch from a V-ditch originally permitted to a Lateral Base Ditch. There is no change to the permanent wetland or stream impacts at this site associated with the re-designed ditch. There are 82 feet of temporary stream impacts to an unnamed tributary (UT) to Reedy Creek associated with tying in the ditch. The temporary impacts are depicted on Mod Sheets 2 & 3 of 5, and require no mitigation.

Permanent Impacts: no change

Temporary Impacts: 82 linear feet of temporary stream impact not previously accounted for.

Mitigation: no mitigation required

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-715-1334
FAX: 919-715-5501
WEBSITE: WWW.NCDOT.ORG

LOCATION:
2728 CAPITAL BLVD., SUITE 240
RALEIGH NC 27604

Permit Site 16C, Station 270+32-L

To incorporate a drainage system revision, a 30-inch (750mm) reinforced concrete pipe (RCP) will be installed in place of the 24-inch (600mm) RCP originally permitted (Mod Sheets 4 & 5 of 5). There are no additional temporary or permanent impacts associated with this change in pipe size.

The only change in impacts for this modification is the 82 feet of temporary impacts at Site 15C. No mitigation is proposed for the temporary impacts.

The revised design does not compromise NCDOT's compliance with the existing permit conditions. The revision has been evaluated for compliance with the avoidance/minimization criteria and is in compliance with all previous issues, including the following:

- Protected species
- Aquatic Life passage
- FEMA compliance
- Cultural Resources

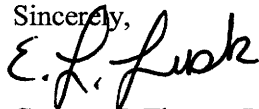
REGULATORY APPROVALS

The original 404 USACE Permit was issued on October 7, 2004, with the most recent modification to the permit issued on October 10, 2006. The original DWQ 401 Water Quality Certification was issued on September 21, 2004, with the most recent modification issued on July 20, 2007.

The NCDOT respectfully requests that the referenced 404 Individual Permit and 401 Water Quality Certification be modified to reflect the revisions outlined in this letter. In compliance with Section 143-215.3D(e) of the NCAC, NCDOT will provide \$570.00 to act as payment for processing the Section 401 certification modification application, as previously noted in this application (see Subject line). Five (5) copies of this application have been provided to DWQ for their review.

If you have any questions or need additional information please contact Mr. Bill Barrett at (919) 715-1426 or wabarrett@ncdot.gov.

Sincerely,



for

Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA

cc:

w/ attachments

Mr. Brian Wrenn, NCDWQ (5 Copies)
Ms. Marella Buncick, USFWS
Ms. Marla Chambers, NCWRC
Ms. Kathy Matthews, USEPA

w/o attachments (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Mark Staley, Roadside Environmental
Mr. M.L. Holder, P.E., Division Engineer
Ms. Trish Simon, DEO
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Scott McLendon, USACE, Wilmington
Mr. Drew Joyner, PE, Human Environment Unit Head
Mr. Clarence W. Coleman, P.E., FHWA
Mr. Ahmad Al-Sharawneh, PDEA Planning Engineer

METRIC

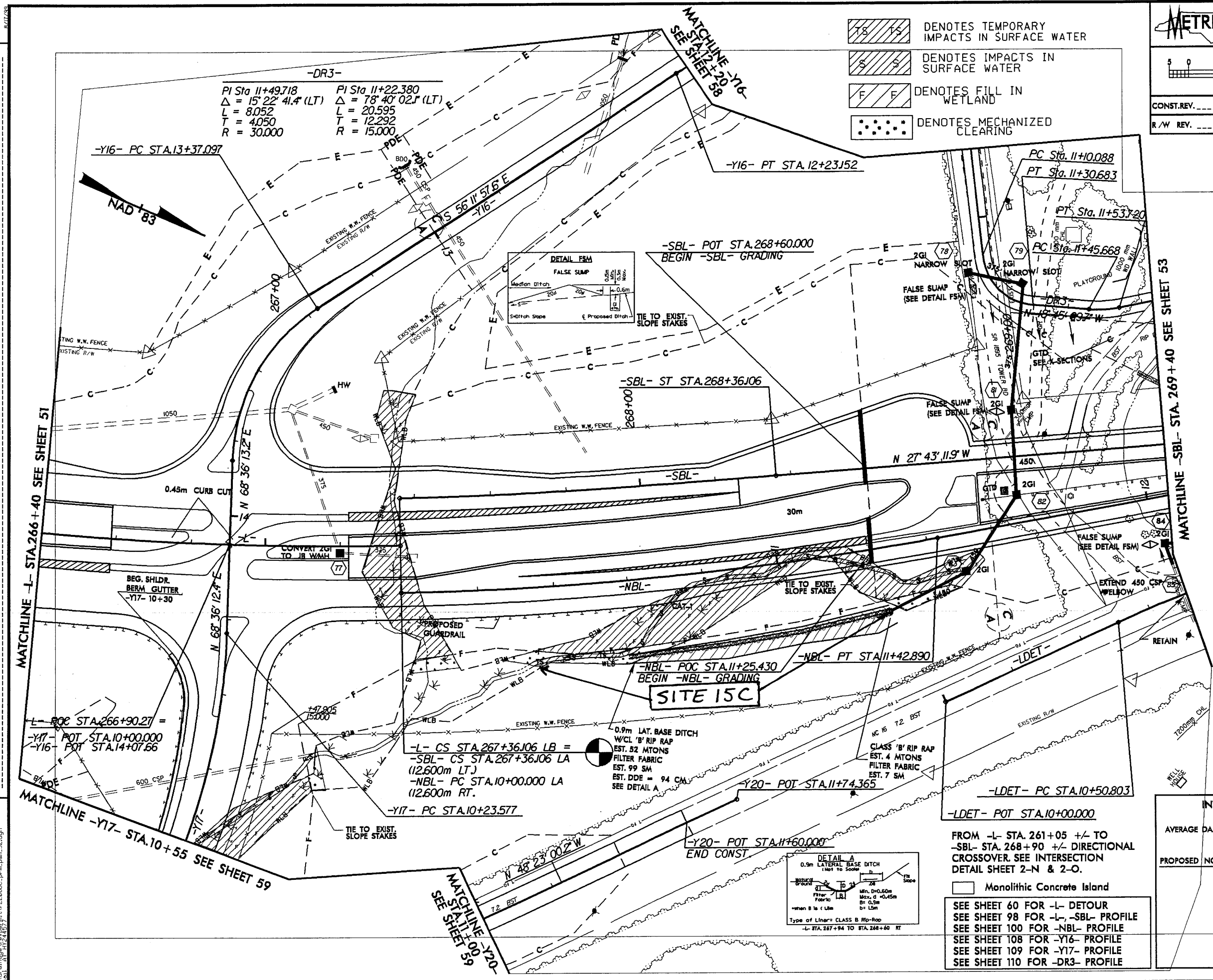
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CONST. REV. _____

R/W REV. _____

PROJECT REFERENCE NO.	SHEET NO.
R-2206 BA & CA	52
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING



MODIFICATION
Permit Drawing
Sheet 2 of 5
(Revised July 2008)

INTERSECTION WITH EXISTING NC 16

AVERAGE DAILY TRAFFIC 2007			
2030			
PROPOSED NC 16	6,500		12,840
	11,100	-L-	21,100
		10 PM (7,7)	140 350
			6,480 10,350
			10 PM (6,6)
			6,620 10,700
EXISTING NC 16	10 PM (6,6)		

FROM -L- STA. 261+05 +/- TO -SBL- STA. 268+90 +/- DIRECTIONAL CROSSOVER. SEE INTERSECTION DETAIL SHEET 2-N & 2-O.

Monolithic Concrete Island

SEE SHEET 60 FOR -L- DETOUR

SEE SHEET 98 FOR -L-, -SBL- PROFILE

SEE SHEET 100 FOR -NBL- PROFILE

SEE SHEET 108 FOR -Y16- PROFILE

SEE SHEET 109 FOR -Y17- PROFILE

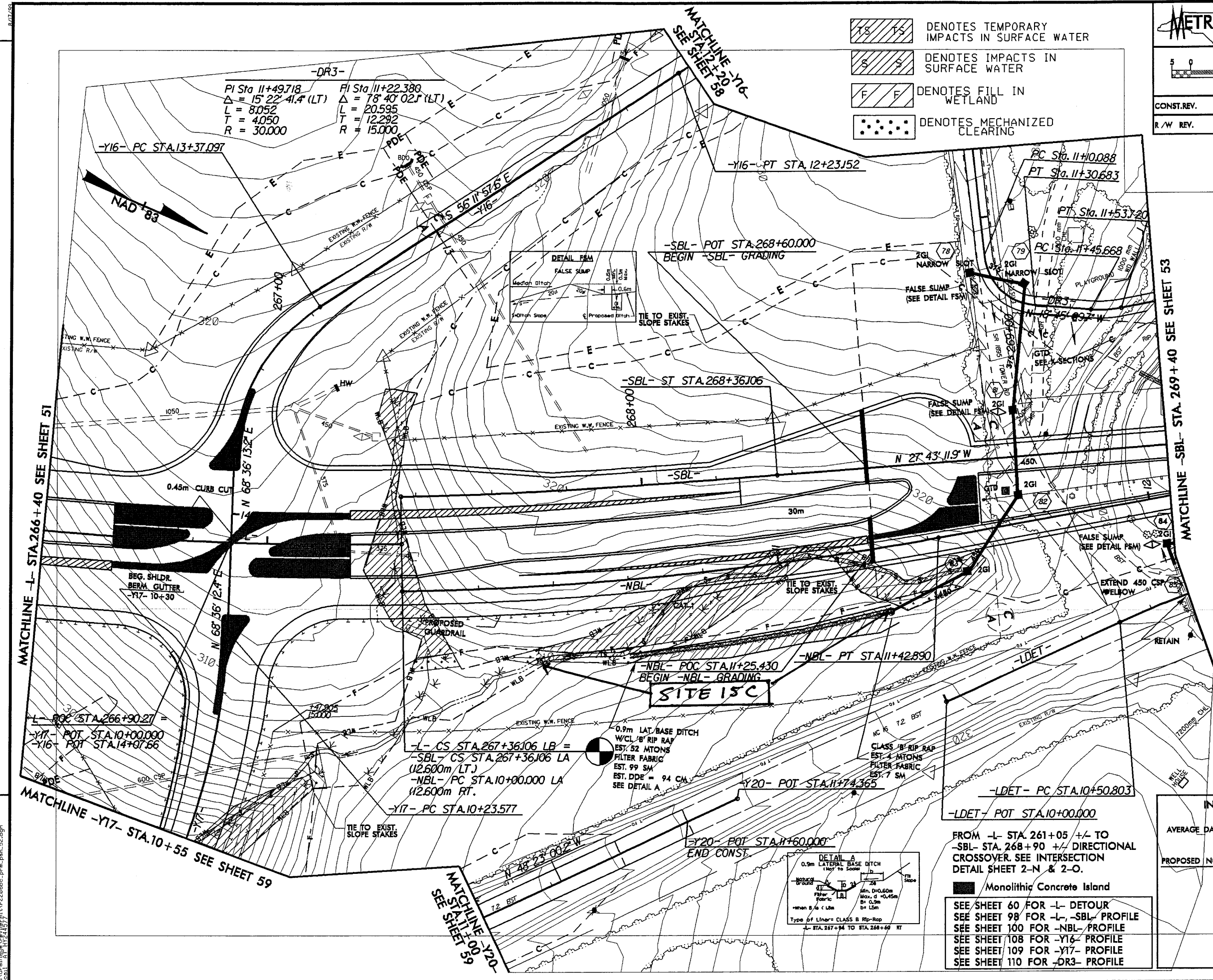
SEE SHEET 110 FOR -DR3- PROFILE

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES IMPACTS IN SURFACE WATER

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING



MATCHLINE -L- STA.266+40 SEE SHEET 51

MATCHLINE -Y17- STA.10+55 SEE SHEET 59

MATCHLINE -Y20- STA.11+00 SEE SHEET 59

MATCHLINE -SBL- STA.269+40 SEE SHEET 53

SITE 15C

MODIFICATION
Permit Drawing
Sheet 3 of 5
(revised JULY 2008)

INTERSECTION WITH EXISTING NC 16

AVERAGE DAILY TRAFFIC 2007		2030	
PROPOSED NC 16	6,500	-L-	12,840
	11,100		21,100
10 PM (7.7)	140	6,480	10 PM (6.6)
	350	10,350	
	6,620		
	10,700		
EXISTING NC 16	10 (5.1)		

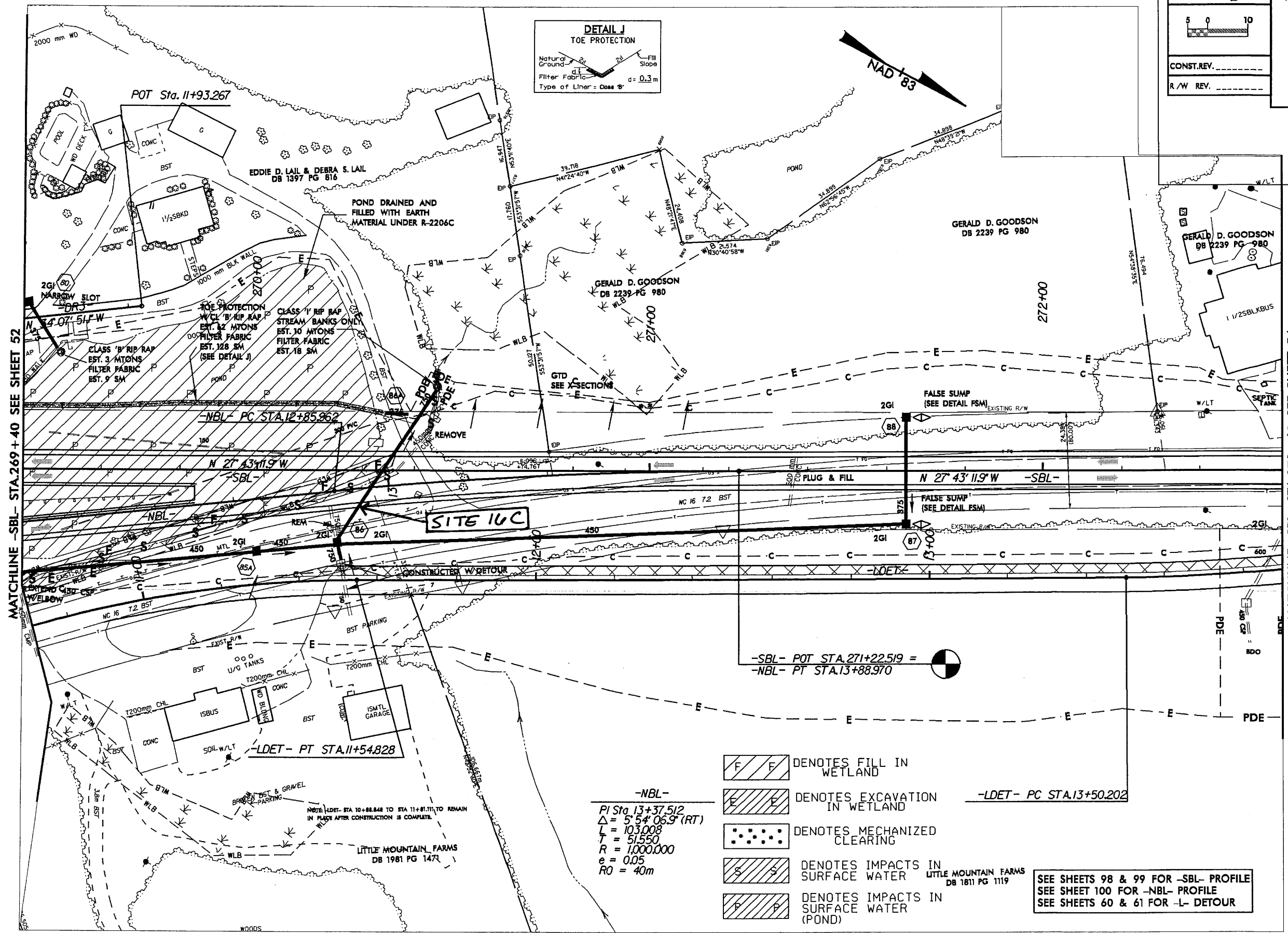
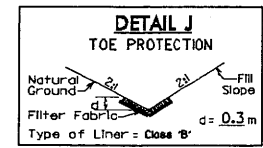
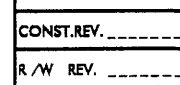
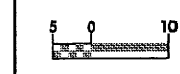
FROM -L- STA. 261+05 +/- TO -SBL- STA. 268+90 +/- DIRECTIONAL CROSSOVER. SEE INTERSECTION DETAIL SHEET 2-N & 2-O.

Monolithic Concrete Island

SEE SHEET 60 FOR -L- DETOUR
SEE SHEET 98 FOR -L-, -SBL- PROFILE
SEE SHEET 100 FOR -NBL- PROFILE
SEE SHEET 108 FOR -Y16- PROFILE
SEE SHEET 109 FOR -Y17- PROFILE
SEE SHEET 110 FOR -DR3- PROFILE

REVISIONS

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MATCHLINE -SBL- STA. 269 + 40 SEE SHEET 52

MATCHLINE -SBL- STA. 272 + 60 SEE SHEET 54

REVISIONS

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

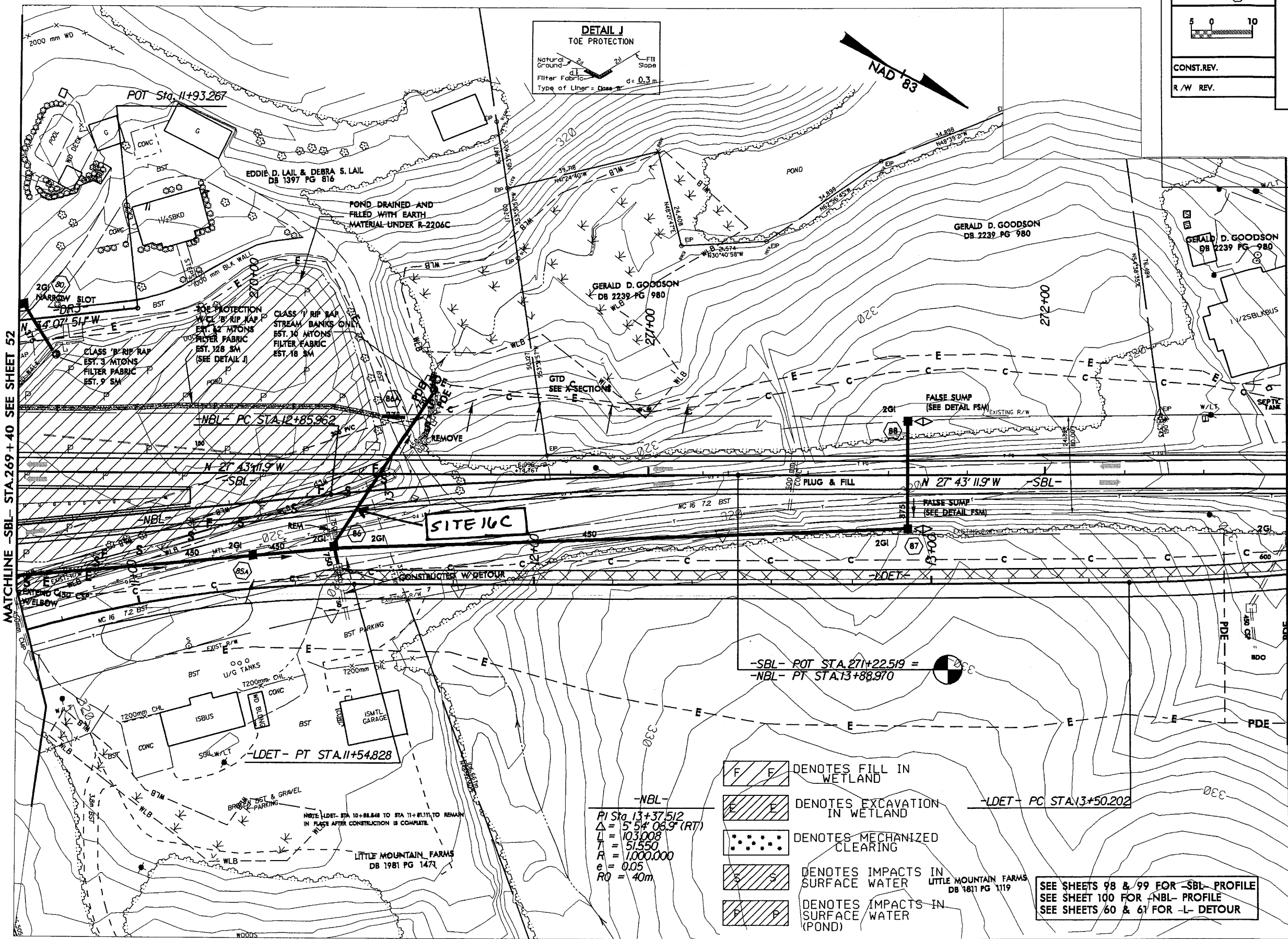
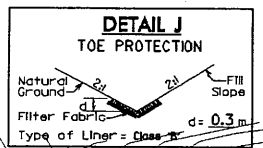
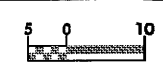
-NBL-
 PI Sta. 13+37.512
 $\Delta = 5' 54" 06.9" (RT)$
 $L = 103.008$
 $T = 51.550$
 $R = 1,000.000$
 $e = 0.05$
 $RO = 40m$

-LDET- PC STA. 13+50.202

SEE SHEETS 98 & 99 FOR -SBL- PROFILE
 SEE SHEET 100 FOR -NBL- PROFILE
 SEE SHEETS 60 & 61 FOR -L- DETOUR


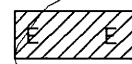
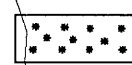
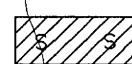
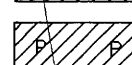
MODIFICATION
 Permit Drawing
 Sheet 4 of 5
 (revised JUNE 2008)

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MATCHLINE -SBL- STA. 269 + 40 SEE SHEET 52

MATCHLINE -SBL- STA. 272 + 60 SEE SHEET 54

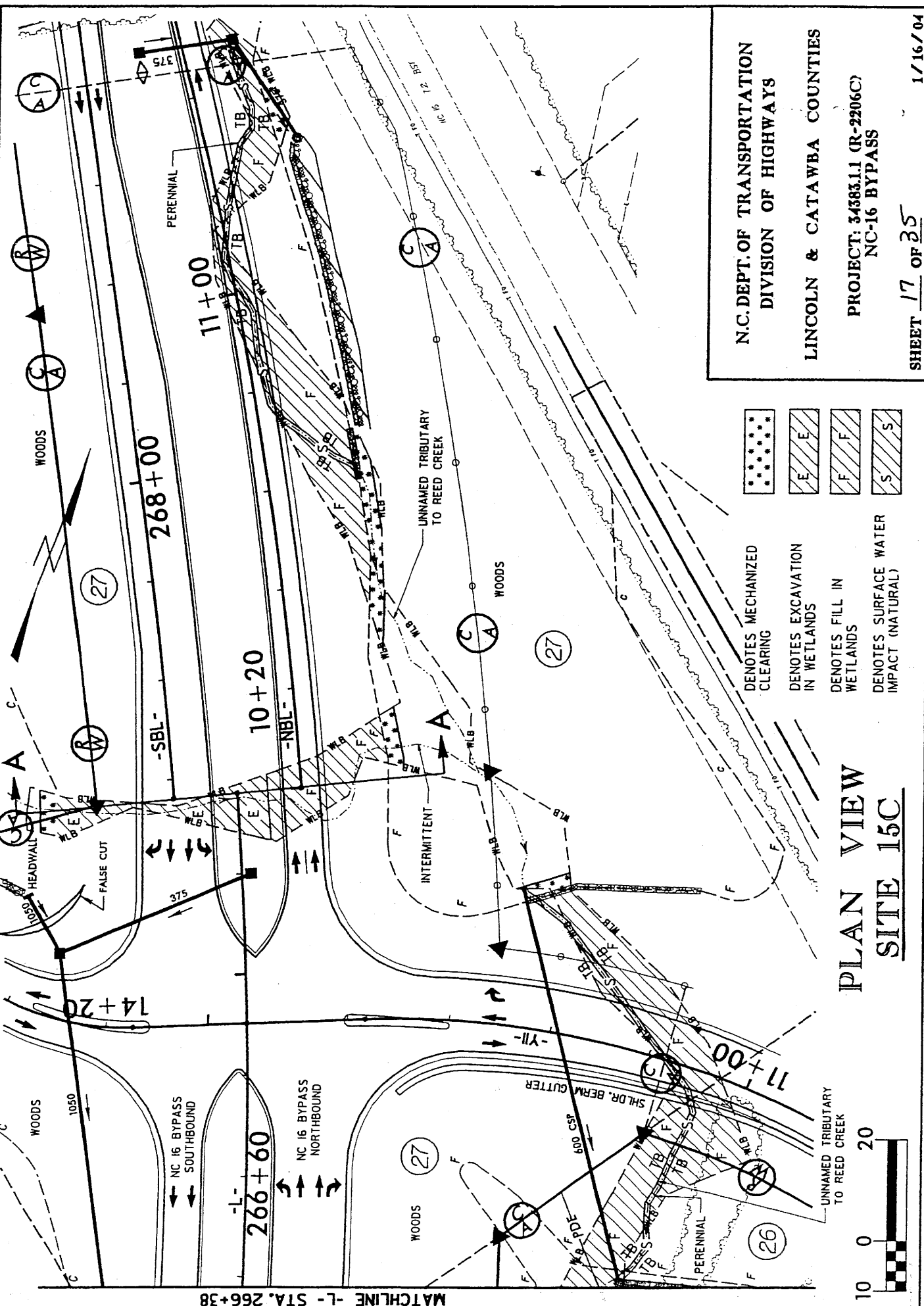
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-  DENOTES EXCAVATION IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES IMPACTS IN SURFACE WATER (POND)

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 $\Delta = 5' 54'' 06.9''$ (RT)
 $L = 103.008$
 $T = 51.550$
 $R = 1,000.000$
 $e = 0.05$
 $RO = 40m$

SEE SHEETS 98 & 99 FOR -SBL- PROFILE
 SEE SHEET 100 FOR -NBL- PROFILE
 SEE SHEETS 60 & 61 FOR -L- DETOUR

MODIFICATION
 Permit Drawing
 Sheet 5 of 5
 (revised JUNE 2008)

REVISIONS




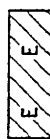


N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

LINCOLN & CATAWBA COUNTIES

PROJECT: 3483.1.1 (R-2206C)
NC-16 BYPASS

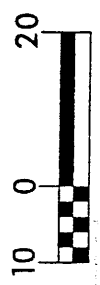
SHEET 17 OF 35

1/16/04
REVISED 4/29/04

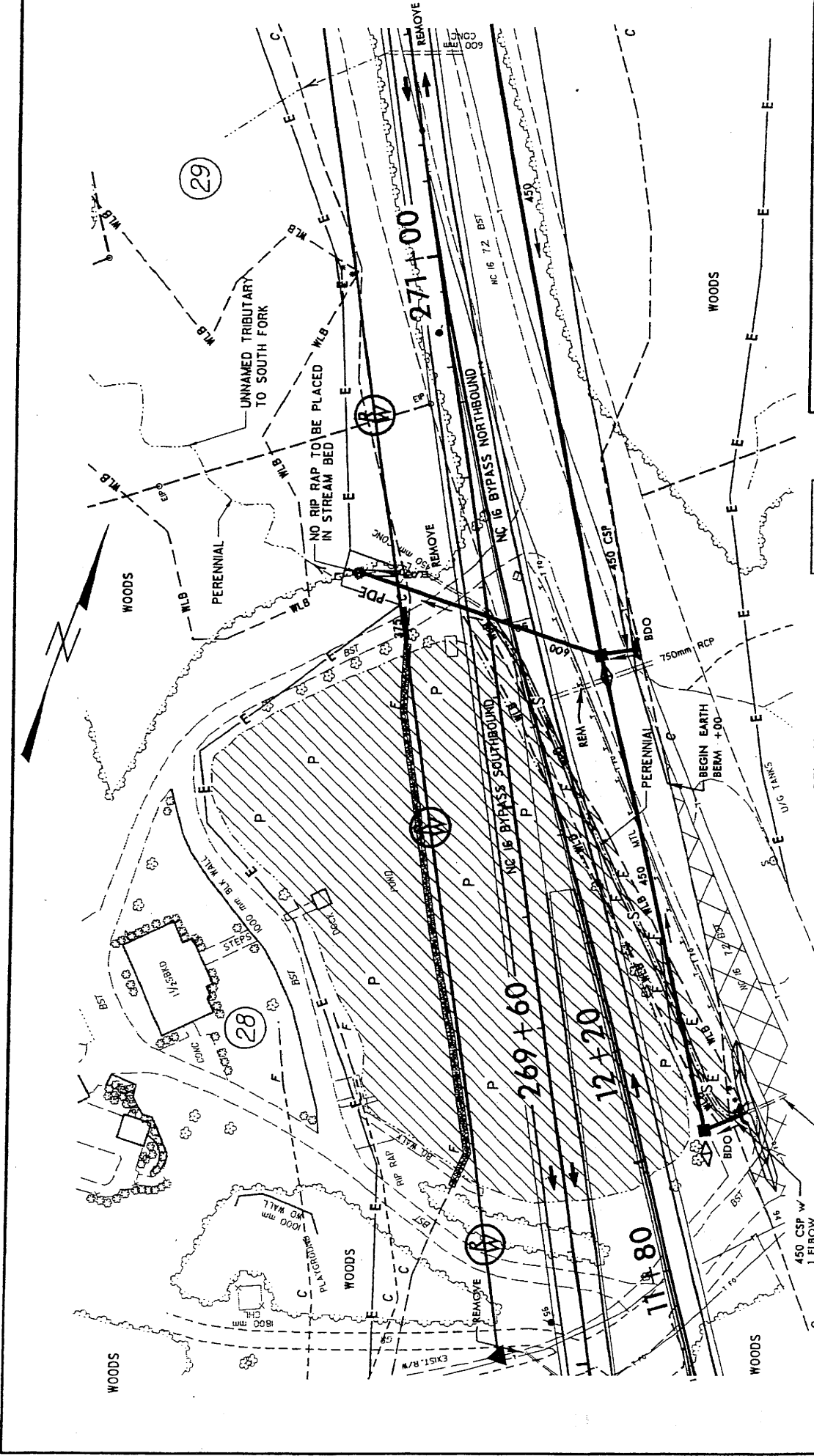
-  DENOTES MECHANIZED CLEARING
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES FILL IN WETLANDS
-  DENOTES SURFACE WATER IMPACT (NATURAL)

PLAN VIEW
SITE I5C

ORIGINAL PERMIT



MATCHLINE -L- STA. 266+38



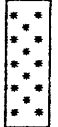

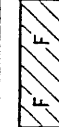
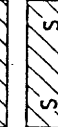
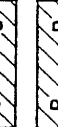
N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

LINCOLN & CATAWBA COUNTIES

PROJECT: 34583.1.1 (R-2206C)
 NC-16 BYPASS

SHEET 20 OF 35

1/16/04
 REVISED 4/29/04

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

PLAN VIEW
 SITE 16C

ORIGINAL PERMIT

