



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

July 9, 2004

NC Department of Environment and Natural Resources
Division of Water Quality
2321 Crabtree Blvd.
Raleigh, NC 27604

Attn: Mr. John Hennessy
NCDOT Coordinator

Dear Sir:

Subject: Application for modification to Neuse Buffer Certificate for the NC 55 widening to a multi-lane facility from SR 1108 (Wake Chapel Road) to SR 1114 (Ralph Stevens Road) in Wake County. TIP No. R-2907, State Project No. 8.1403501, Federal Aid Project No. STP-55(5). WBS Element 3.4515.3.2. NCDOT Division 5.

Reference: NCDENR-DWQ Water Quality Certification Project No. 010681 and USACE Permit No. 199700175.

The North Carolina Department of Transportation (NCDOT) is currently widening NC 55 to a multi-lane facility from SR 1108 (Wake Chapel Road) to SR 1114 (Ralph Stevens Road) in Wake County. The North Carolina Department of Environment and Natural Resources, Division of Water Quality (NCDENR-DWQ) issued a Section 401 Water Quality Certificate and Neuse Buffer Certificate on April 25, 2002. The United States Army Corps of Engineers (USACE) issued a Section 404 Individual Permit on July 2, 2002. The project was let in August 2002, and construction has begun.

The purpose of this submittal is to modify the Neuse Buffer Certification. The modification of the certification is for the hydraulic design at Site 3. The revised design does not compromise NCDOT's compliance with the existing permit conditions. This modification application contains revised roadway construction plan sheets 17 and 18.

The revision has been evaluated for compliance with the avoidance/ minimization criteria and the Neuse Riparian Buffer Rules, and is in compliance with all previous issues, including the following:

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1548 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

TELEPHONE: 919-733-3141
FAX: 919-733-9794

WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

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

Summary of Changes

1. Site 3: Catch basins, 300 mm pipe structure and 375 mm pipe structure from Station 59+60 to 60+00 Left (see Permit Drawing 8 of 14 dated 11/29/01 and 9 of 14 dated 11/29/01)

2. Site 3: Catch basin and 375 mm pipe structure at Station 58+96 Right (see Permit Drawing 8 of 14 dated 11/29/01)

The NCDOT roadway design unit has recently revised the roadway due to a utility line conflict. Due to conflicts with an existing gas line, the super elevation for the left turn lane has been modified to drain away from the median. With this change in the super elevation, catch basins, a 300 mm pipe structure and a 375 mm pipe structure from Station 59+60 to 60+00 Left, and a catch basin and a 375 mm pipe structure at Station 58+96 Right have been eliminated from the roadway design. This change eliminates a point source discharge and provides sheet flow to the roadside ditch. Stormwater flows to the same point in the landscape through sheet flow instead of a point discharge. The hydraulics unit has indicated that the hydraulic design of the project remains in compliance with the riparian buffer rule. There are no additional impacts to riparian buffers from this revision.

3. Site 3: 900 mm pipe structure at Station 60+40 L (see Permit Drawing 9 of 14 dated 11/29/01)

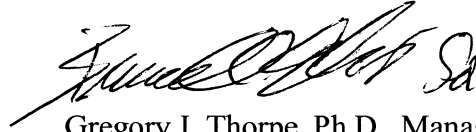
The permit drawing and original plan sheet indicates the existing structure is a 900 mm pipe structure that would have been extended with a 900 mm structure as part of this roadway project. The stakeout of the structure during construction has indicated that the existing structure actually is a 750 mm pipe structure. Therefore, the hydraulic design has been revised to extend the existing structure with a 750 mm pipe structure. The hydraulics unit has indicated that the existing 750 mm structure is sufficient to convey water. There are no additional impacts to the stream from this revision.

Regulatory Approvals

Application is hereby made for the modification of the Neuse Buffer Certification from the NCDENR-DWQ. The revision of the permit site on this project remains in compliance with the Riparian Buffer Mitigation Program (15A NCAC 2B .0242) and the Neuse River Basin Riparian Buffer Rules (15A NCAC 2B .0233). Therefore, as part of the modification notification, we respectfully request that the NCDENR-DWQ note these changes and retain this information for any potential compliance check. We also request a letter from DWQ noting agreement with NCDOT's assessment that the revisions remain consistent with the existing Neuse Buffer Certification.

If you have any questions or need additional information, please call Mr. Matt Haney at (919) 715-1428 or (919) 715-1500.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregory J. Thorpe".

Gregory J. Thorpe, Ph.D., Manager
Project Development and Environmental Analysis Branch

cc: w/attachment

Mr. Eric Alsmeyer, USACE
Mr. Travis Wilson, NCWRC
Ms. Becky Fox, USEPA-Whittier, NC
Mr. Ronald Mikulak, USEPA-Atlanta, GA
Mr. Gary Jordan, USFWS
Mr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Jon Nance, P.E., Division 5 Engineer
Mr. Chris Murray, Division 5 Environmental Officer

w/out attachment

Mr. Art McMillan, P.E., Highway Design
Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Mr. Mark Staley, Roadside Environmental
Mr. David Franklin, USACE, Wilmington

DELETED STRUCTURE NOS. 247, 250, 251 AND 252
CHANGED SUPERELEVATION FROM 0.02 TO NC

NOTE: SEE SHEET No. 26 & 27 FOR -L- PROFILE
SEE SHEET No. 30 FOR -Y12- PROFILE
SEE SHEET No. 30 FOR -Y13- PROFILE
SEE SHEET No. 30 FOR -Y14- PROFILE

★ NOTE: BEGIN EXPRESSWAY GUTTER 57+40 RT.
TIE TO EXIST. C&G -Y12- +36.00 RT.
TIE PROP. EXPRESSWAY GUTTER TO
EXIST. C&G -Y12- +36.00 LT. RUN TO
EXIST. C&G -Y14- +30+00 RT.

SEE SHEET 2-1 FOR INTERSECTION DETAIL



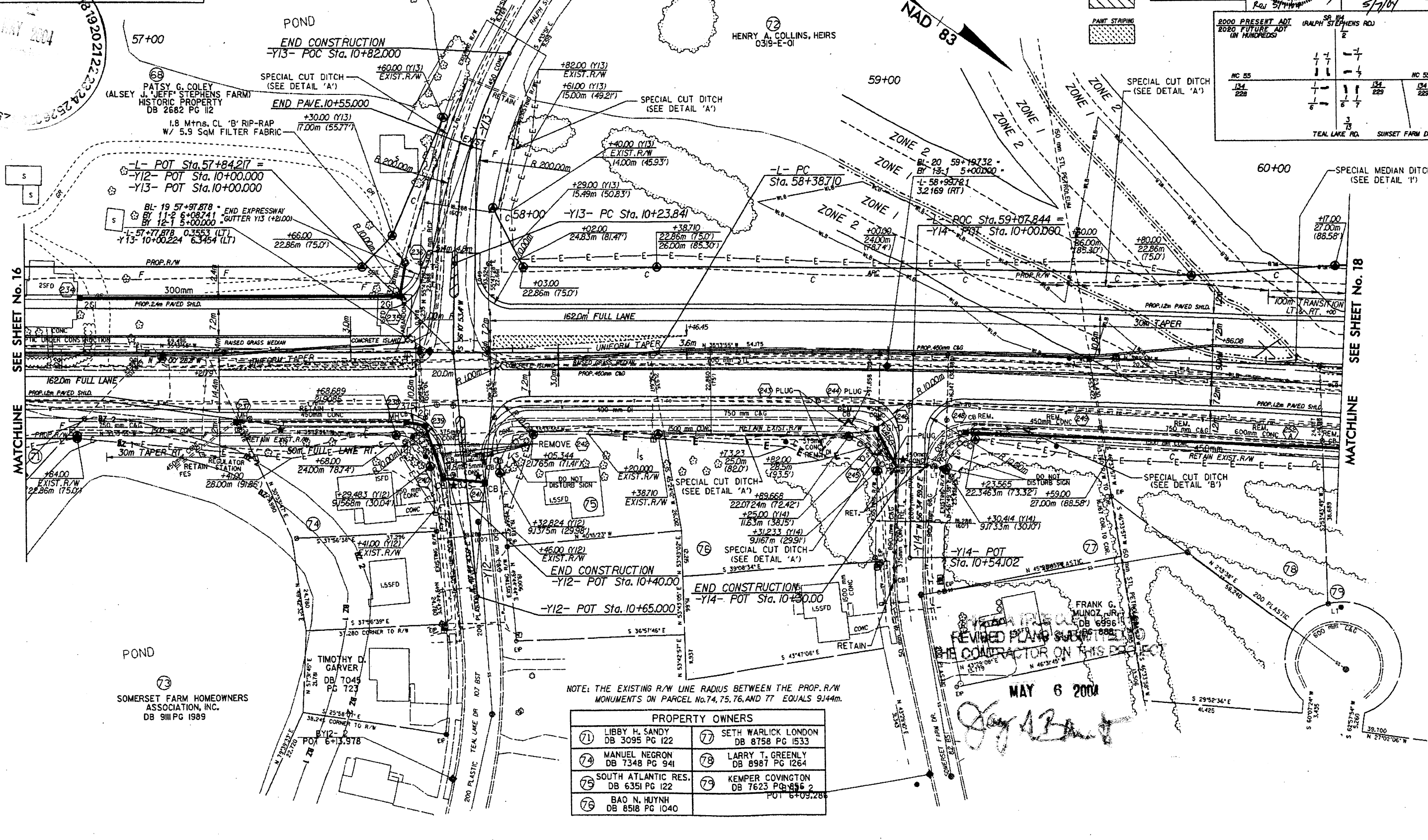
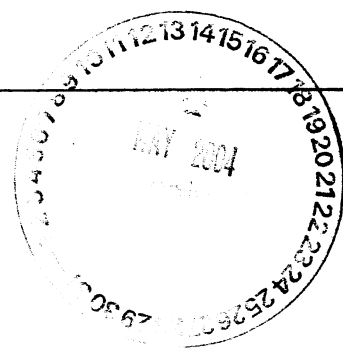
CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-2907	SHEET NO. 11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER JOHN C. LANGFORD	HYDRAULICS ENGINEER RALPH STEPHENS
PROFESSIONAL SEAL 15825 JOHN C. LANGFORD	PROFESSIONAL SEAL 18180 RALPH STEPHENS

2000 PRESENT ADT (IN HUNDREDS)	SR 114 (RALPH STEPHENS RD)	2
NC 55	177	17
134 228	11	134 229
	1/6	1/7
	3/8	
	TEAL LAKE RD	SUNSET FARM DR.

-L-
PI Sta 59+65.108
 $\Delta = 4' 08" 11.5' (RT)$
L = 252.687
T = 126.398
R = 3,500.000
SE = NC

-Y13-
PI Sta 10+55.850
 $\Delta = 29' 52" 13.70' (RT)$
L = 62.561
T = 32.009
R = 120.000
SE = NC



SEE SHEET No. 16
MATCHLINE

SEE SHEET No. 18
MATCHLINE

NOTE: THE EXISTING R/W LINE RADIUS BETWEEN THE PROP. R/W MONUMENTS ON PARCEL No. 74, 75, 76, AND 77 EQUALS 9144m.

PROPERTY OWNERS	
71 LIBBY H. SANDY DB 3095 PG 122	77 SETH WARLICK LONDON DB 8758 PG 1533
74 MANUEL NEGRON DB 7348 PG 941	78 LARRY T. GREENLY DB 8987 PG 1264
75 SOUTH ATLANTIC RES. DB 6351 PG 122	79 KEMPER COVINGTON DB 7623 PG 855 2
76 BAO N. HUYNH DB 8518 PG 1040	POT 64+09.288

REVISED PLAN SUBMITTED TO THE CONTRACTOR ON THIS PROJECT
MAY 6 2004
John C. Langford

PATSY G. COLEY
(ALSEY J. JEFF STEPHENS FARM)
HISTORIC PROPERTY
DB 2682 PG 112

BL- 19 57+97.878 - END EXPRESSWAY
BY 11-2 6+08.741 - GUTTER Y13 (+2.00)
BY 12-1 5+00.000

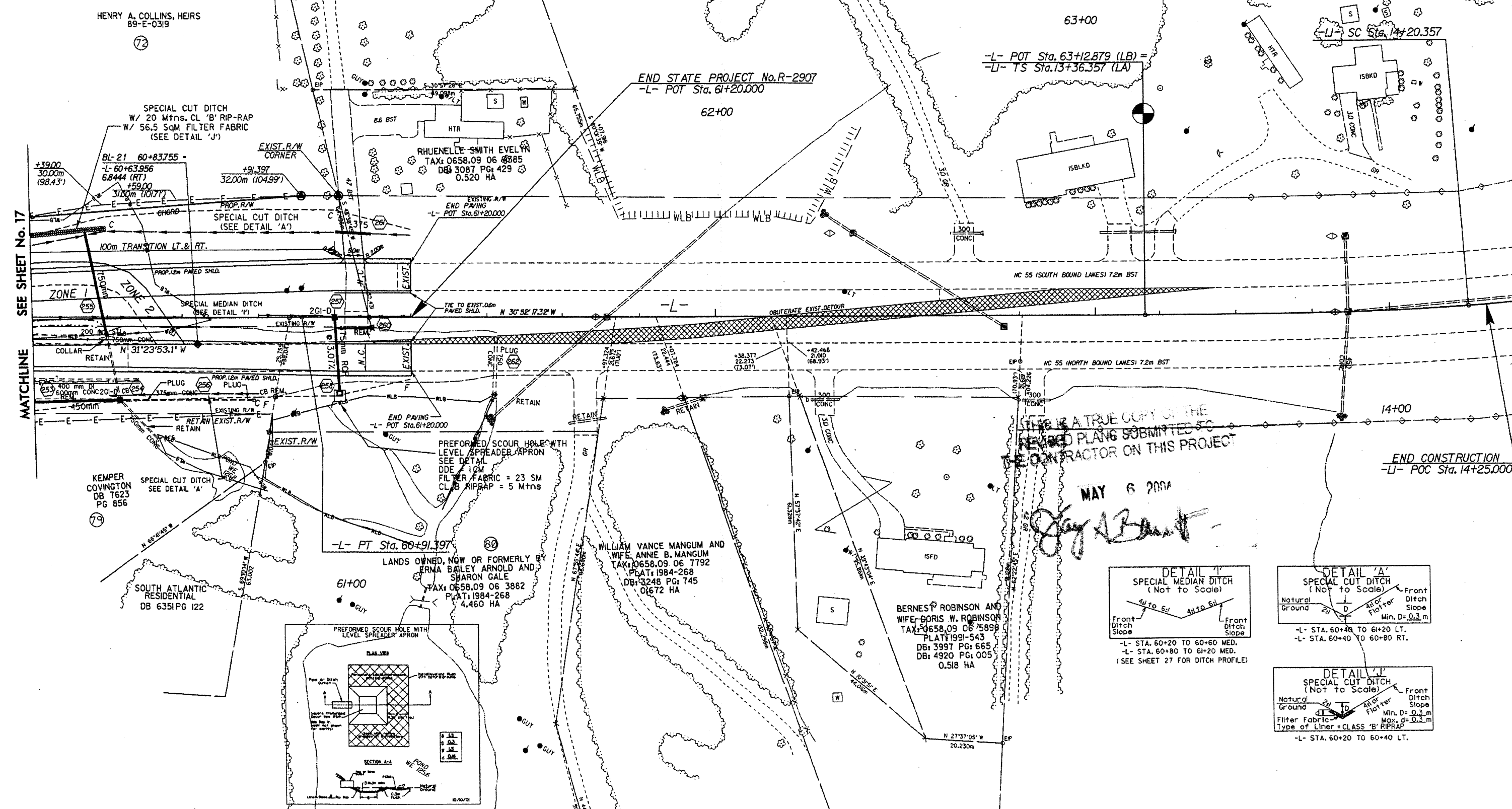
TIMOTHY D. GARVER
DB 7045
PG 723

FRANK G. MUNOZ, JR.
DB 6956

CHANGED SUPERELEVATION FROM 0.02 TO NC
CHANGED EXISTING 900mm RCP TO 750mm CONC.
CHANGED PROPOSED 900mm RCP TO 750mm RCP
AT STRUCTURE NO.255

NOTE: SEE SHEET No. 27 FOR -L- PROFILE

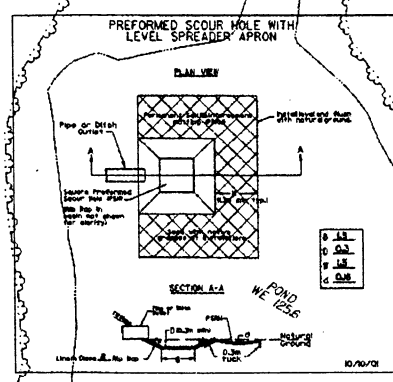
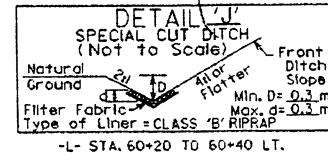
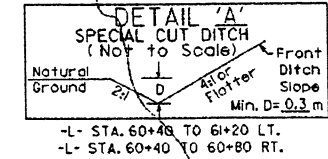
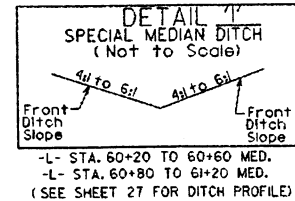
	PROJECT REFERENCE NO.	SHEET NO.
	R-2907	18
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
CONST. REV.		
R/W REV.		



THIS IS A TRUE COPY OF THE REVISION PLANS SUBMITTED TO THE CONTRACTOR ON THIS PROJECT

MAY 6 2004

John C. Mansford



05-MAY-2004 10:00 AM
John C. Mansford