



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY PERDUE
GOVERNOR

EUGENE CONTI
SECRETARY

April 22, 2009

MEMORANDUM TO: Mr. Barry Moose, PE
Division Ten Engineer

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

SUBJECT: Mecklenburg County, Replace Bridge No.36 on SR 3135 over Irvins Creek;
T.I.P. Number B-3677; Federal Aid Project No. BRSTP-3135(4); State Project
8.2674104

Attached is the modification to the U.S. Army Corps of Engineers Section 404 Nationwide Permit Number 13 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>

PSH/gyb

Attachment

Cc: W/attachment
Mr. Randy Garris, P.E. State Contract Officer
Ms. Beth Harmon, EEP
Mr. Larry Thompson, RS, PWS, Division Env. Officer

Cc: W/o attachment (see website for attachments)
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design
Dr. David Chang, P.E., Hydraulics
Mr. Art McMillan, P.E., Highway Design
Mr. Tom Koch, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. John F. Sullivan, FHWA
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Mike Robinson, P.E., State Bridge Construction Engineer
Ms. Teresa Hart, P.E., PDEA Western Region Unit Head

PROJECT COMMITMENTS
Mecklenburg County
Bridge No. 36 SR 3135
Over Irvins Creek
Federal Aid Project BRSTP-3135(4)
State Project 8.2674101
WBS No. 33220.1.1
TIP Project B-3677

Commitments Developed during Project Development

Project Development and Environmental Analysis:

In addition to the 404 Nationwide, General, and Regional Conditions, 401 State General Certification Conditions, NCDOT's Guidelines for Best Management Practices for Bridge Demolition and Removal, and NCDOT's Guidelines for Best Management Practices for the Protection of Surface Waters, the following special Commitments have been agreed to by NCDOT:

Division 10

- A. Structure Design will include this standard note on the bridge plans: "Removal of the existing bridge shall be performed so as to not allow debris to fall into the water. The contractor shall remove the bridge and submit plans for demolition in accordance with Article 402-2 of the standard specifications."
- B. All methods of demolition will be considered and implemented where practical, other than dropping the bridge in the water. Bridge demolition activities associated with this project will strictly follow NCDOT's Best Management Practices for Bridge Demolition and Removal (BMP-BDR). The proposed project falls under Case 3 of BMPs-BDR.

Commitments Developed through Permitting

No additional commitments developed.



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

April 17, 2009

To: File

From: Brett Feulner, Environmental Specialist

Subject: B-3677 Section 404 Notice of Intent to Use Nationwide Permit 13

The Notice of Intent to Use Nationwide Permit 13-Modification was submitted to the USACE and NCDWQ for their records on March 26, 2009 (attached). Under the current design, no formal written concurrence is required by the USACE or the NCDWQ. NCDOT must comply with all conditions and descriptions in the attached Notice of Use letter, Permit Drawings, 404 General Conditions, and 401 Standard Conditions. A permit modification may be required if any of the above conditions and descriptions cannot be met.



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

March 25, 2009

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

ATTENTION: Mr. Steve Lund
NCDOT Coordinator

SUBJECT: **Notice of Permit Modification for Nationwide Permit 13** for the proposed replacement of Bridge No. 36 over Irvins Creek on SR 3135. Mecklenburg County, Federal Project No. BRSTP-3135(4), Division 10, T.I.P. No. B-3677, WBS Element 33172.1.1.

Reference: Original Permit notice of use issued March 31, 2008
USACE Action ID –SAW-2008-1292

Dear Mr. Lund:

Please see the enclosed revised permit drawings for the above referenced project. A Nationwide Permit 13 Notice of Use letter was issued by NCDOT on March 31, 2008 for 91 feet of permanent fill in the Irvins Creek. A recent change in the design for this project includes the building a three span bridge instead of a single span bridge. There will be an additional 9 feet of permanent stream from the placement of riprap on the banks of Irvins Creek for bank stabilization for a total of 99 feet.

Section 404 Permit:

It is anticipated that the additional impacts relating to bank stabilization will be authorized under Section 404 Nationwide Permit 13 (Bank stabilization). The impacts from bank stabilization do not constitute "loss of waters"; therefore no mitigation is proposed. This letter serves as Notice of Use by NCDOT and written concurrence is not requested.

Section 401 Permit:

It is anticipated that the additional impacts will be authorized by Section 401 General Certification number 3689. The NCDOT will adhere to all general conditions of the Water Quality Certification. Therefore, we are not requesting written concurrence. We are providing two copies of this application to the North Carolina Department of Environment and Natural Resources for their records.


MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

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

LOCATION:
PARKER LINCOLN BUILDING,
2728 CAPITAL BLVD.
RALEIGH NC 27604

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Brett Feulner at bmfeulner@ncdot.gov or (919) 431-6663.

Sincerely,


for

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

cc:

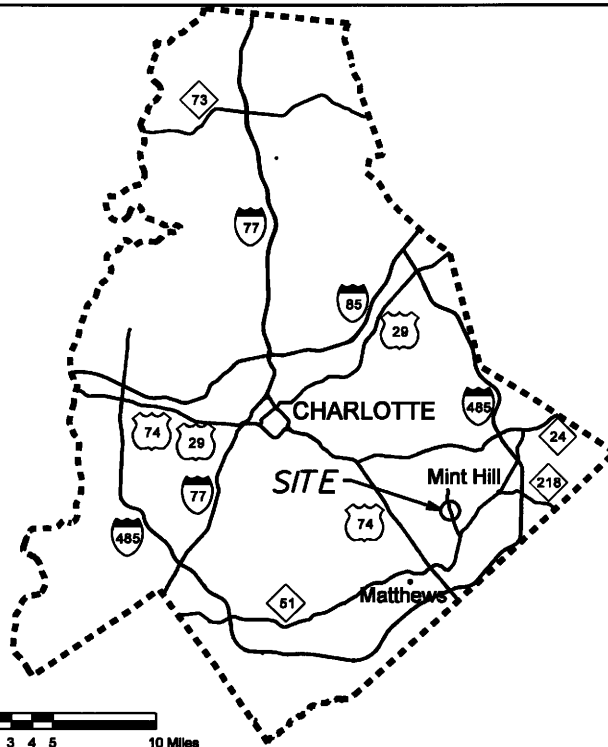
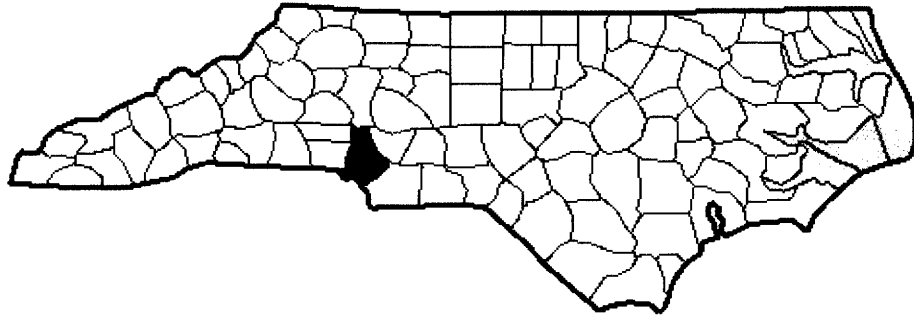
W/attachment

Mr. Brian Wrenn, NCDWQ (2 Copies)
Ms. Marella Buncick, USFWS
Ms. Marla Chambers, NCWRC

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Barry Moose, P.E. Division 10 Engineer
Mr. Larry Thompson, Division 10 Environmental Officer
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Hank Schwab, PDEA
Mr. Scott McLendon, USACE, Wilmington

NORTH CAROLINA



VICINITY MAP

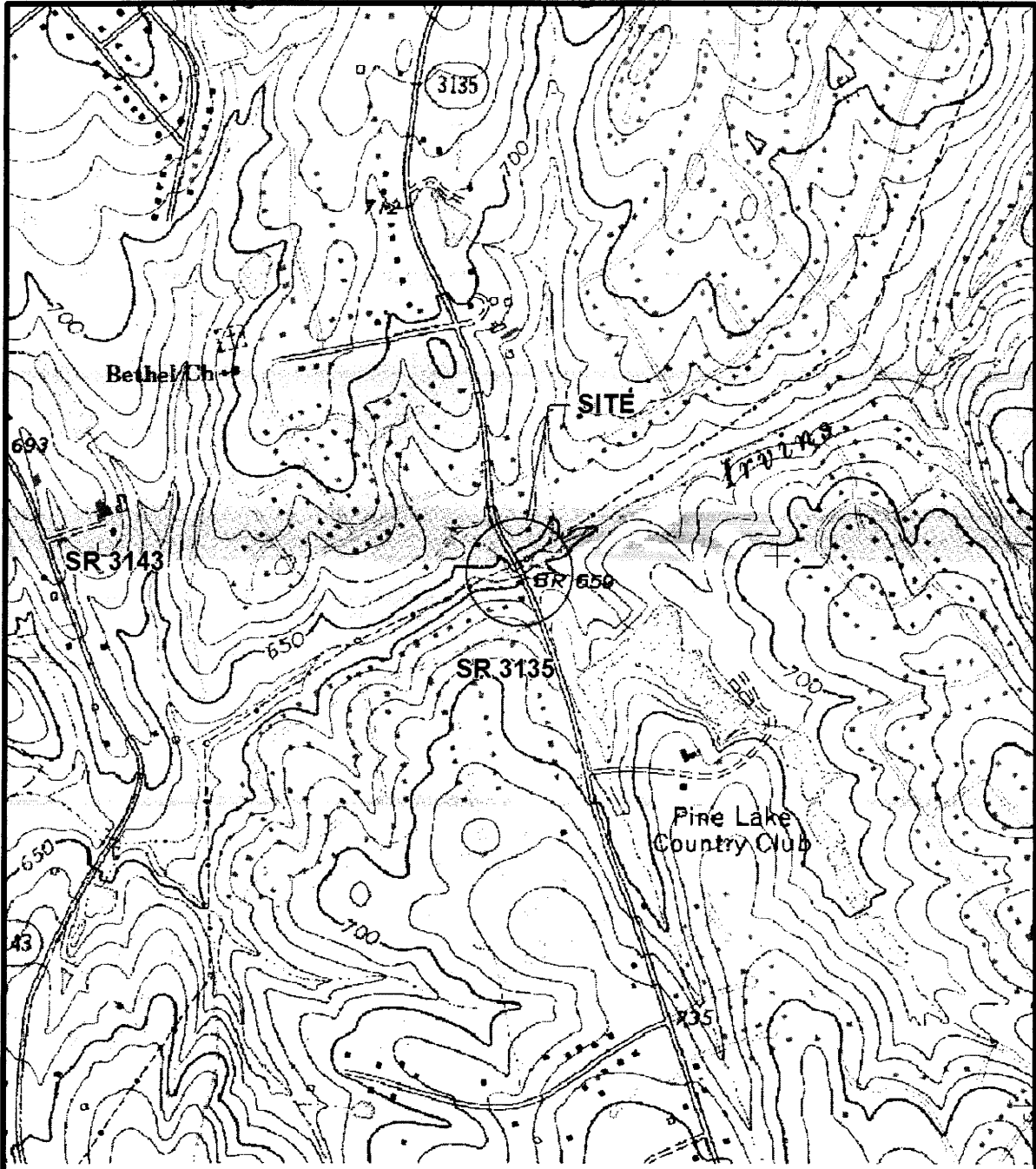
NCDOT
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY

PROJECT: 33220.1.1 (B-3677)

REPLACE BRIDGE NO. 36 ON SR 3135
OVER IRVINS CREEK

SHEET 1 OF 7

Revised
JANUARY 2009



SITE MAP

NCDOT
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY

PROJECT: 33220.1.1 (B-3677)

REPLACE BRIDGE NO. 36 ON
SR 3135 OVER IRVINS CREEK

Revised
SHEET 2 OF 7 JANUARY 2009

PROPERTY OWNER

SITE #	OWNER'S NAME	ADDRESS
SITE 2	JENNIFER TALLEY-HARMON AND FRANK III HARMON	4221 SINGLETREE RD CHARLOTTE, NC 28227
SITE 3	PINE LAKE COUNTRY CLUB, INCORPORATED	P.O. BOX 690490 CHARLOTTE, NC 28227
SITE 4	LYNDELL D. THOMPSON AND WIFE, LOIS Y. THOMPSON	5817 LEBANON ROAD CHARLOTTE, NC 28227
SITE 5	NIDIA L SUAREZ AND LEIDY GOMEZ	5836 LEBANON RD CHARLOTTE, NC 28227

NCDOT
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY

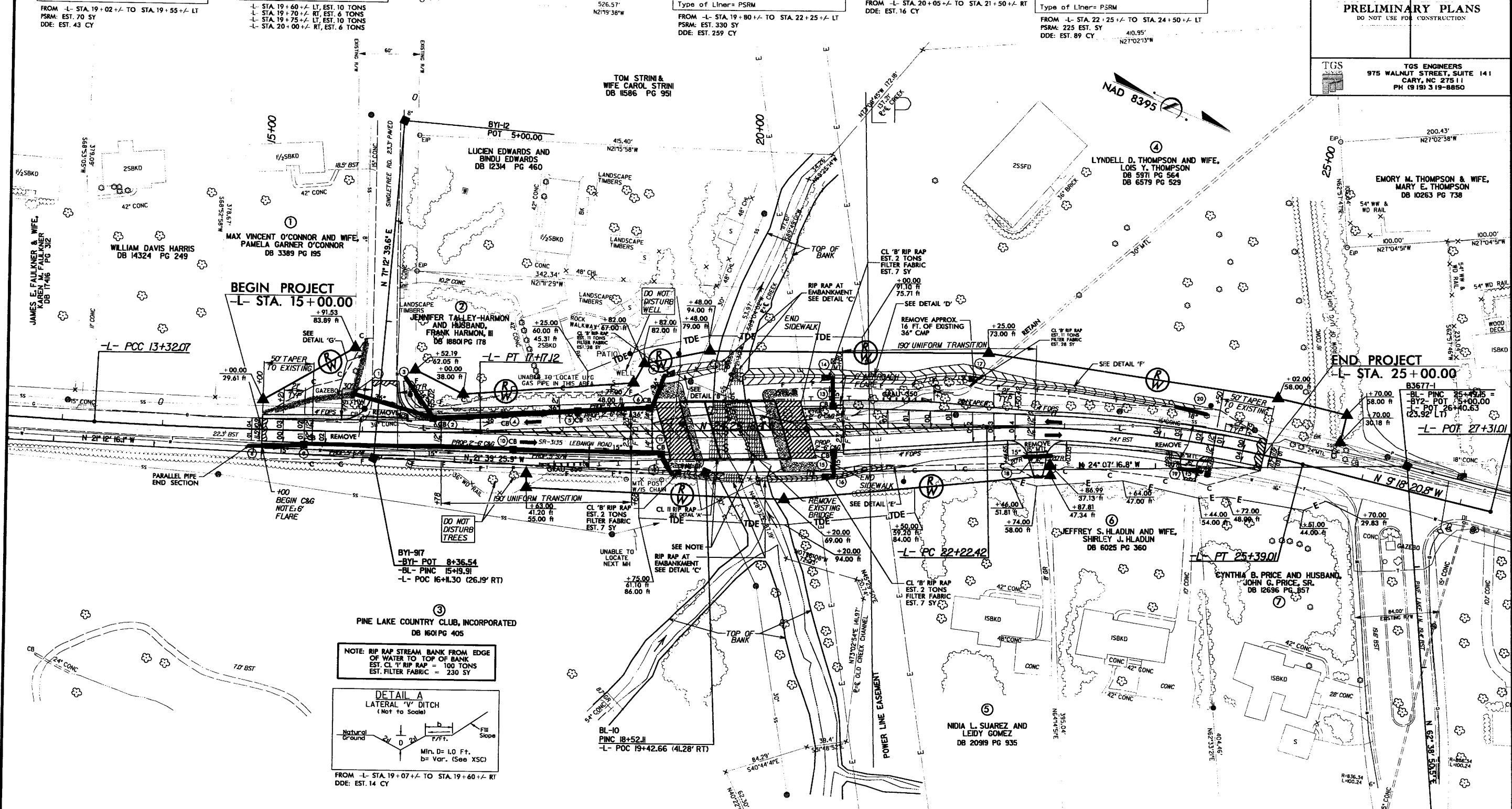
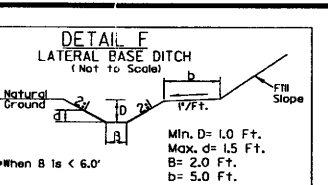
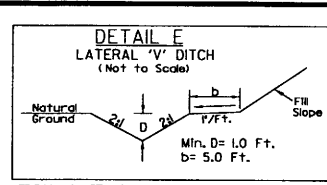
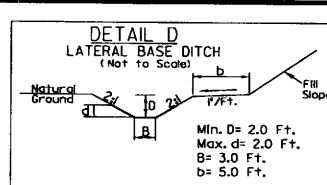
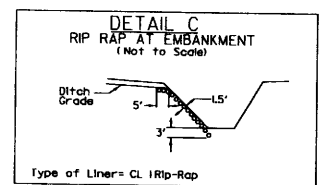
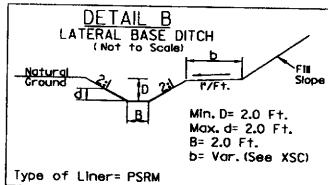
PROJECT: 33220.1.1 (B-3677)

REPLACE BRIDGE NO. 36 ON
SR 3135 OVER IRVINS CREEK

SHEET 4 OF 7

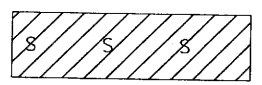
Revised
JANUARY 2009

PROJECT REFERENCE NO. B-3677	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
TGS	TGS ENGINEERS 975 WALNUT STREET, SUITE 141 CARY, NC 27511 PH (919) 319-8850



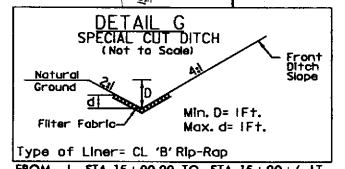
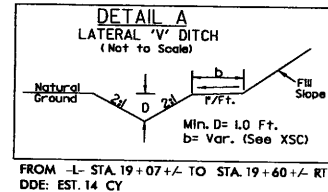
DATE: _____
 DATE: _____

REVISIONS
 - REMOVED PROPOSED RW & REVISED DRIVEWAY ON PARCEL 6. REPLACED DRIVE PIPE ON PARCEL 4. REVISED OWNER NAMES ON PARCELS 2, 5, & 7. WC PARKER, PE
 - REVISED OWNER NAMES ON FOUR PARCELS OUTSIDE OF PROJECT LIMITS; ADDED OFFSETS TO RW & EASEMENT FLAGS AT VARIOUS POINTS ALONG PROJECT. WC PARKER, PE



DENOTES SURFACE WATER IMPACTS

NOTE: RIP RAP STREAM BANK FROM EDGE OF WATER TO TOP OF BANK
 EST. CL 'V' RIP RAP = 100 TONS
 EST. FILTER FABRIC = 230 SY



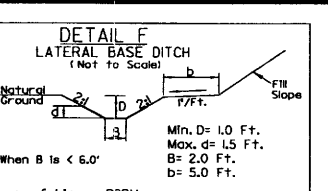
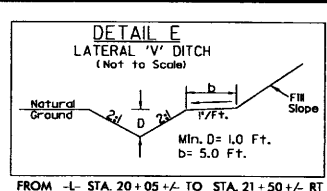
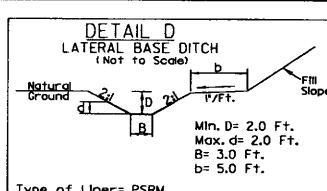
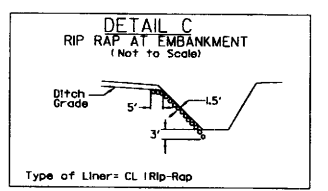
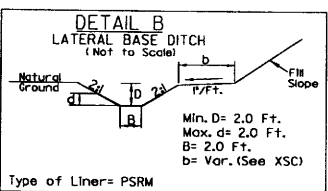
Permit Drawing
 Sheet 5 of 7
 Revised March 2009

SEE SHEETS S-1 THRU S-4 FOR STRUCTURE PLANS

SEE SHEET 5 FOR -L- PROFILE

IMPACTED IRVINS CREEK SURFACE WATER

PROJECT REFERENCE NO. B-3677	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
TGS	TGS ENGINEERS 975 WALNUT STREET, SUITE 141 CARY, NC 27511 PH (919) 319-8850



Type of Liner= PSMR
FROM -L- STA. 19+02+/- TO STA. 19+55+/- LT
PSRM: EST. 70 SY
DDE: EST. 43 CY

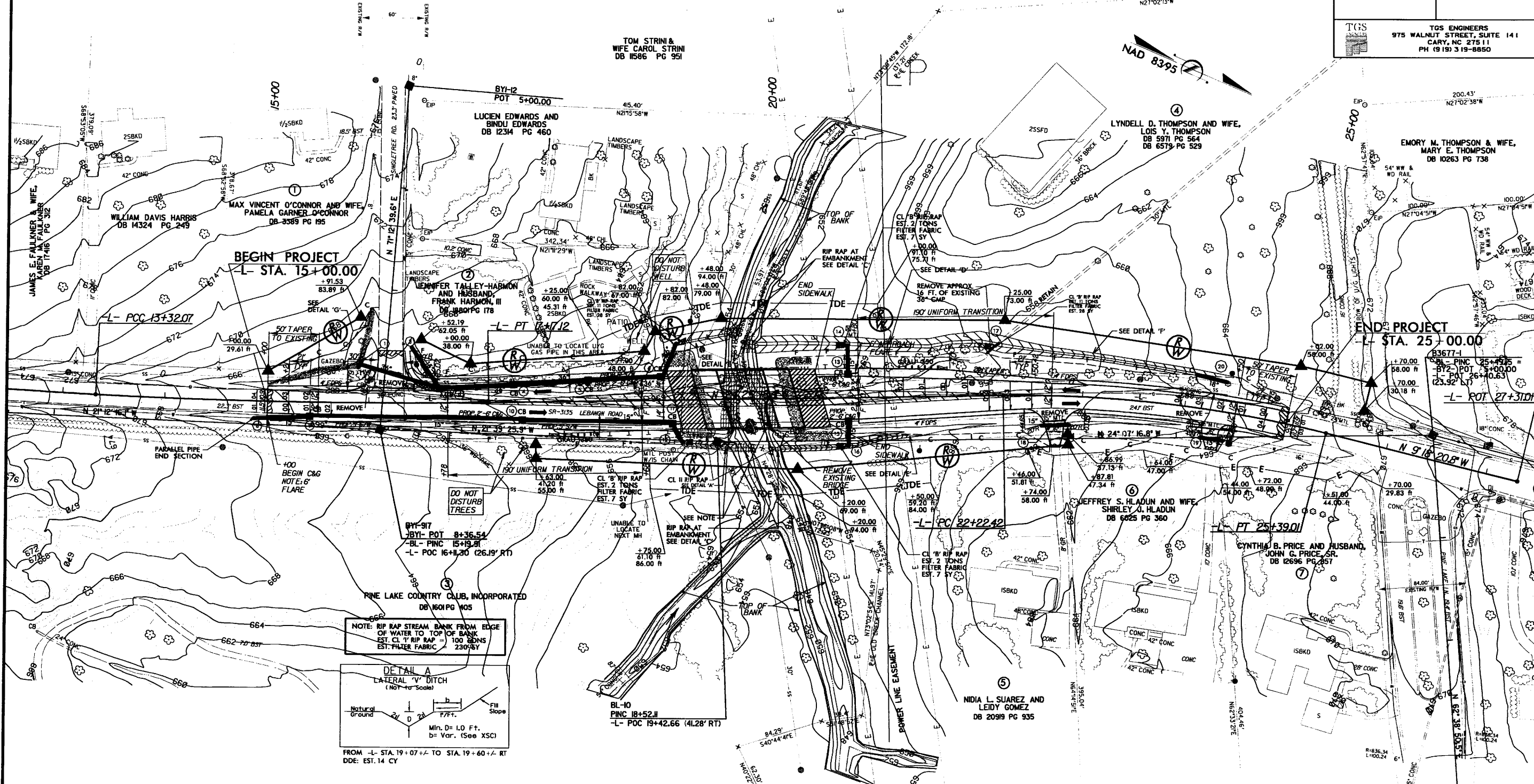
Type of Liner= CL I Rip-Rap
-L- STA. 19+60+/- LT, EST. 10 TONS
-L- STA. 19+70+/- RT, EST. 6 TONS
-L- STA. 19+75+/- LT, EST. 10 TONS
-L- STA. 20+00+/- RT, EST. 6 TONS

Type of Liner= PSMR
FROM -L- STA. 19+80+/- TO STA. 22+25+/- LT
PSRM: EST. 330 SY
DDE: EST. 259 CY

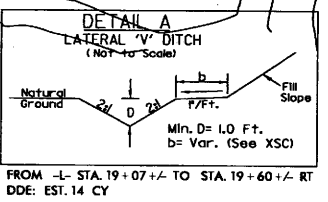
FROM -L- STA. 20+05+/- TO STA. 21+50+/- RT
DDE: EST. 16 CY

Type of Liner= PSMR
FROM -L- STA. 22+25+/- TO STA. 24+50+/- LT
PSRM: 225 EST. SY
DDE: EST. 89 CY

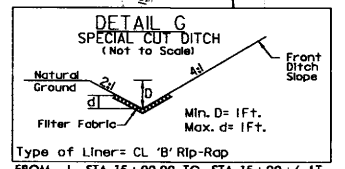
REVISIONS
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 - REVISED OWNER NAMES ON FOUR PARCELS OUTSIDE OF PROJECT LIMITS; ADDED OFFSETS TO RW & EASEMENT FLAGS AT VARIOUS POINTS ALONG PROJECT. WC PARKER, PE
 DATE: _____
 DATE: _____



DENOTES SURFACE WATER IMPACTS



FROM -L- STA. 19+07+/- TO STA. 19+60+/- RT
DDE: EST. 14 CY



Type of Liner= CL 'B' Rip-Rap
FROM -L- STA. 15+00.00 TO STA. 15+90+/- LT
CLASS 'B' RIP RAP: EST. 48 TONS
FILTER FABRIC: EST. 65 SY

SEE PLANS RT SIDE OF SR4141 (15.7% SLOPE)
CLASS 'B' RIP RAP: EST. 30 TONS
FILTER FABRIC: EST. 43 SY

Permit Drawing
Sheet 6 of 7
Revised March
2009

SEE SHEETS S-1 THRU S-4
FOR STRUCTURE PLANS

SEE SHEET 5 FOR -L- PROFILE

IMPACTED IRVINS CREEK SURFACE WATER

4/28/99

STRUCTURE HYDRAULIC DATA

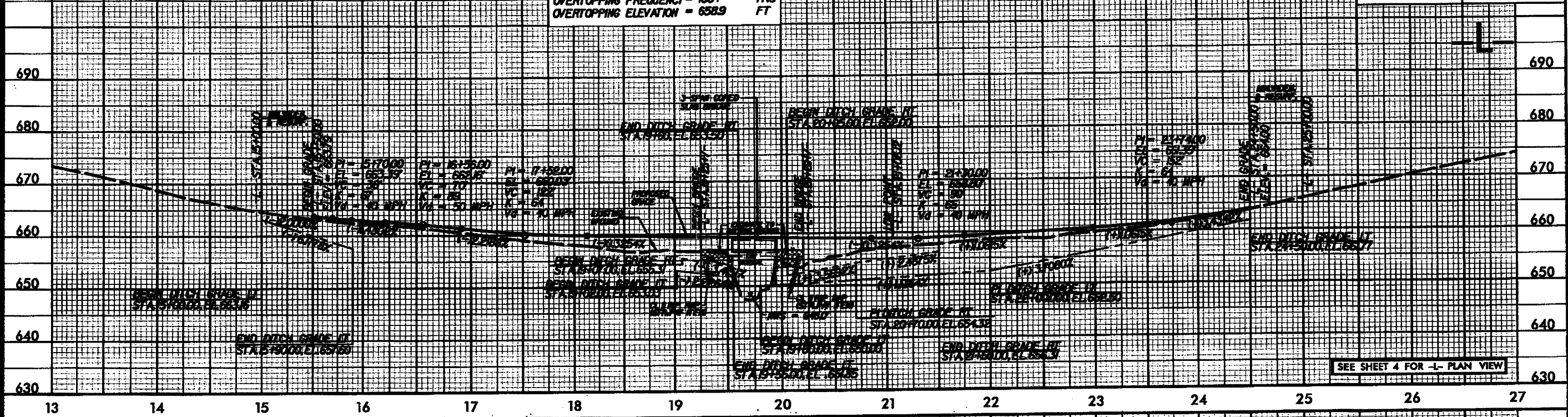
DESIGN DISCHARGE	= 2,200	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN ELEVATION	= 658.3	FT
BASE DISCHARGE	= 3,100	CFS
BASE FREQUENCY	= 100	YRS
BASE ELEVATION	= 658.2	FT
OVERTOPPING DISCHARGE	= 3,600	CFS
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING ELEVATION	= 658.9	FT

BM# S33-01
BL- STA. 18+47.91 OFF 5.22' LT
ELEV. = 656.500
CITY OF CHARLOTTE SURVEY MARK.
(CITY OF CHARLOTTE PUBLISHED ELEV. = 656.08')

BM# 2
BL- STA. 19+32.36 OFF 290.09' LT
ELEV. = 653.306
RR SPIKE IN THE BASE OF A 15" HAWTHORN.

TGS ENGINEERS
SUITE 141
975 WALNUT STREET
CARY, NC 27511
PH (919) 319-8880

PROJECT REFERENCE NO.	B-3677	SHEET NO.	5
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			



SEE SHEET 4 FOR -L- PLAN VIEW

Permit Drawing
Sheet 7 of 7
Revised March
2009

C:\projects\B-3677\Drawings\Hydraulic\Hydraulic.dwg