



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

November 27, 2012

MEMORANDUM TO: Mr. Pat Ivey, P.E.
Division 9 Engineer

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

SUBJECT: Rowan County; Replace Bridge No. 221 over Lake Fisher on SR
1308; Federal Aid Project No. BRZ-1308 (9), WBS element 38579.1.1;
T.I.P. No. B-4809

Attached are the revised permit plan sheets for the above referenced project. Please replace the old sheets with the new sheets. The revised plans account for the changes made to extend the work bridge across Lake Fisher to accommodate both bridge and utility work and the utility pier construction. Contact has been made with the USACE, John Thomas, and DWQ, Amy Euliss, and no permit modification is needed.

A copy of the revised permit sheets will be posted on the NCDOT website at:
<http://www.ncdot.gov/doh/preconstruct/pe/neu/permit.html>.

Cc:

Mr. Randy Garris, P.E., State Contract Office
Mr. Kent Boyer, Division 9 Environmental Officer
Mr. Majed Alghandour, P.E., Programming and TIP
Mr. Art McMillan, P.E., Hydraulics
Mr. Tom Koch, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Dewayne Sykes, P.E., Utilities Unit
Mr. Jay Bennett, P.E., Roadway Design
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Mike Robinson, P.E., State Roadway Construction Engineer
Mr. Bill Goodwin, P.E., PDEA Bridge Section

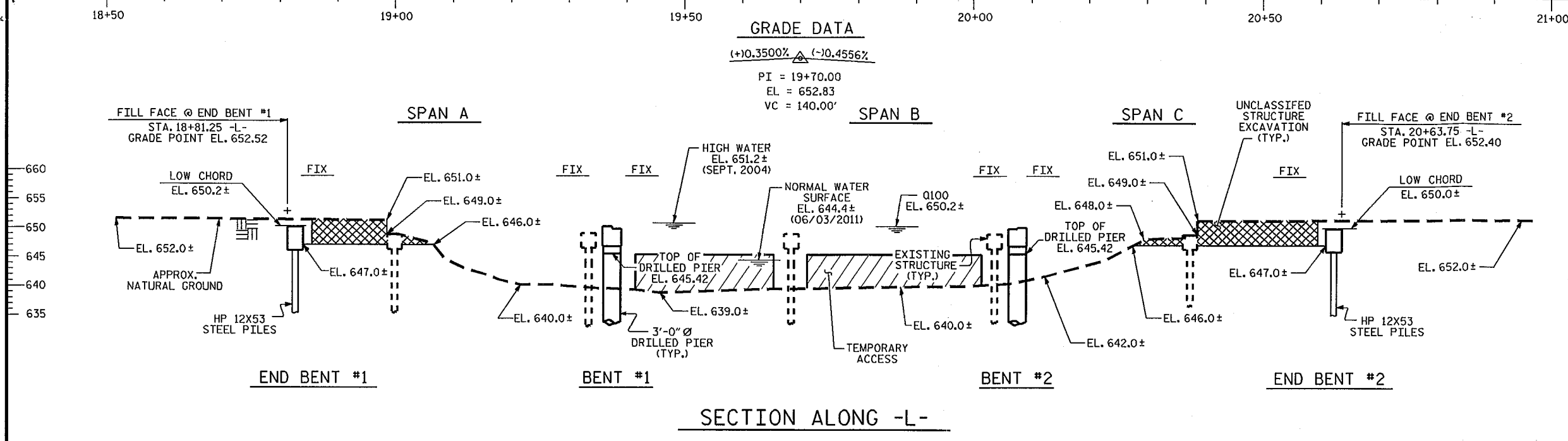
MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100
FAX: 919-212-5785

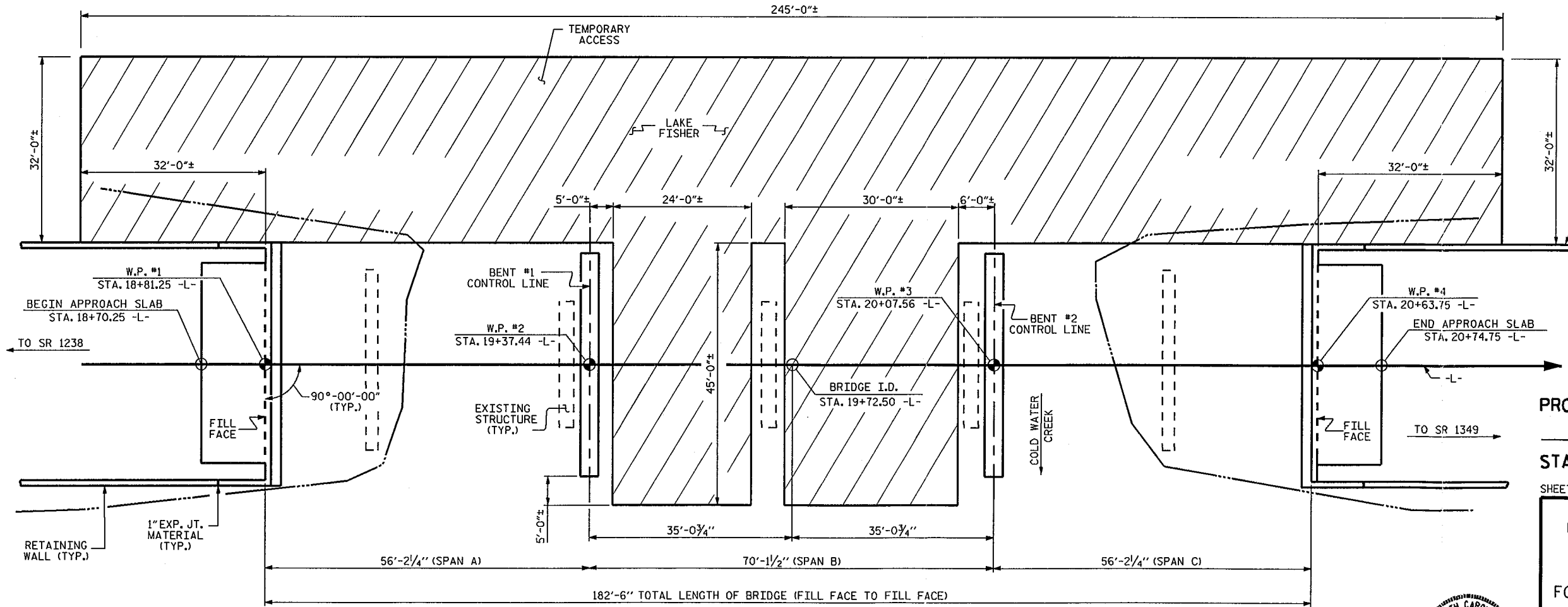
WEBSITE: WWW.NCDOT.ORG

LOCATION:
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610-4328

Permit Drawing
Sheet 4 of 6



I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS



PROJECT NO. B-4809
 ROWAN COUNTY
 STATION: 19+72.50 -L-
 SHEET 1 OF 3 REPLACES BRIDGE NO. 221



DRAWN BY: H.T. DIEU DATE: 4/12/12
 CHECKED BY: V.A. PATEL DATE: 9/4/12

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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
GENERAL DRAWING					
FOR BRIDGE OVER COLD WATER CREEK/LAKE FISHER ON SR 1308 (MOOSE ROAD) BETWEEN SR 1238 AND SR 1349					
REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					TOTAL SHEETS 25

WETLAND PERMIT IMPACT SUMMARY														
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS					
			CAMA Permanent Fill In Wetlands (ac)	404 Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)	
1	-L- STA 18+40 TO -L- STA 20+02	TEMP. BRIDGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*	0	0	0
TOTALS:			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NOTE:

* TEMPORARY IMPACTS DUE TO TEMPORARY WORK BRIDGE BENTS IN WATER : 105 SQ. FT. (0.002 ACRE) <0.01 ACRE.

PERMANENT IMPACTS DUE TO DRILLED PIERS IN WATER : 42.42 SQ. FT. (0.0009 ACRE) <0.01 ACRE.

N.C.D.O.T.
 DIVISION OF HIGHWAYS
 ROWAN COUNTY
 PROJECT: 38579.1.1 (B-4809)
 BRIDGE NO. 221 OVER
 LAKE FISHER ON
 SR 1308 (MOOSE ROAD)

09/08/09

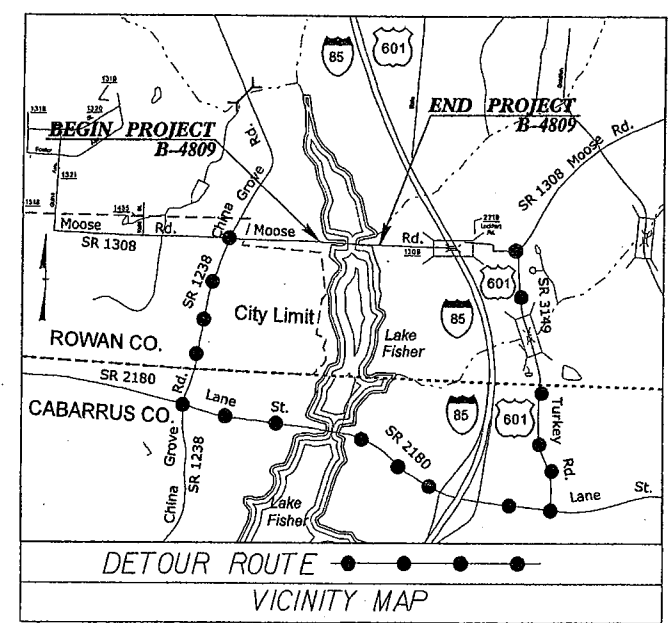
TIP PROJECT: B-4809

T.I.P. NO.	SHEET NO.
B-4809	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

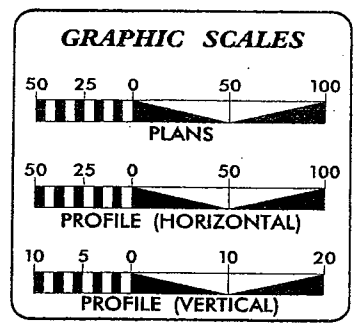
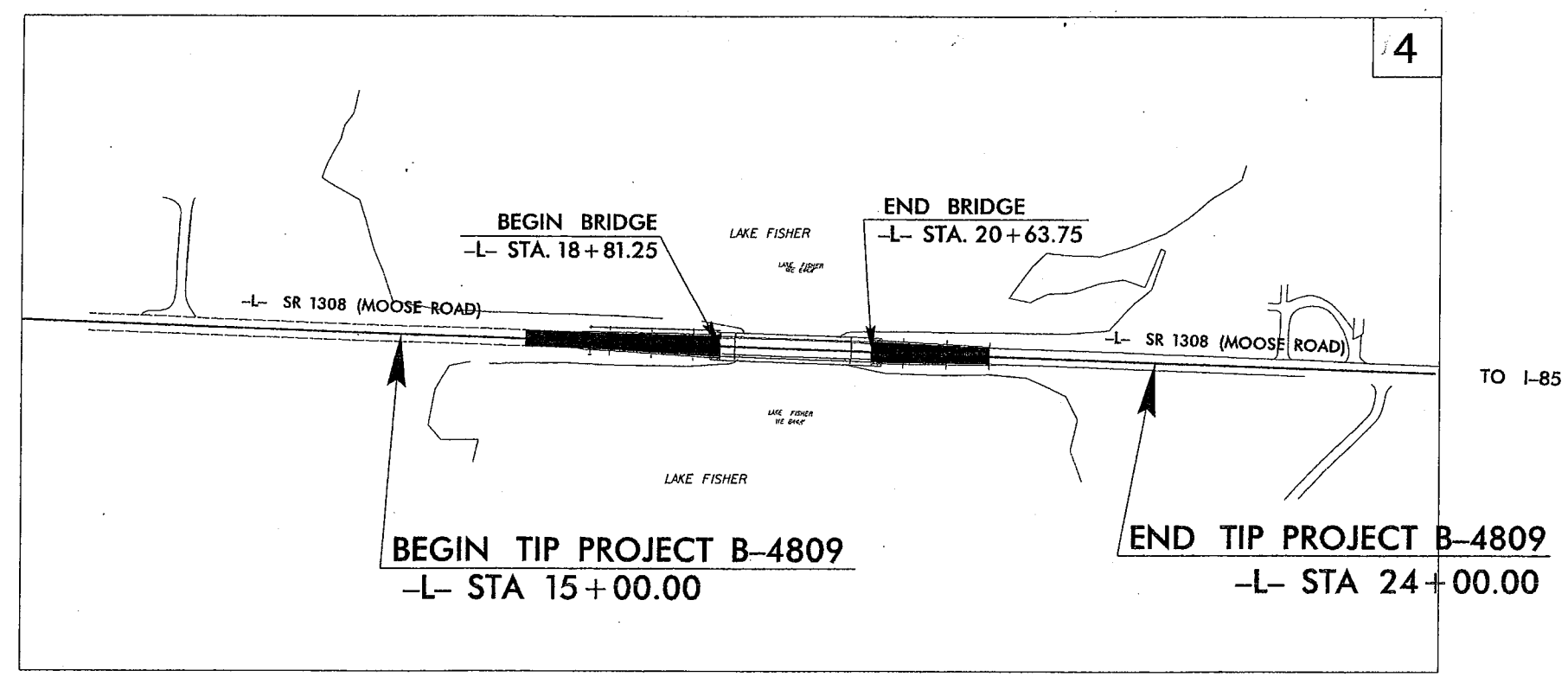
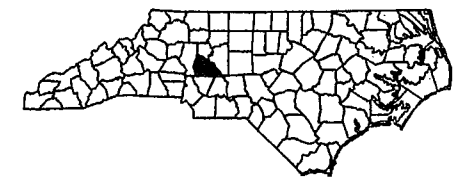
UTILITY CONSTRUCTION PLANS
ROWAN COUNTY

Utility Permit Drawing
Sheet 1 of 2



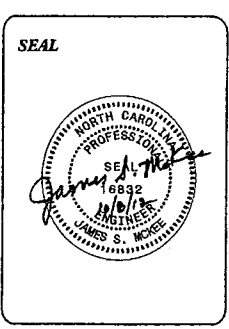
LOCATION: BRIDGE 221 OVER LAKE FISHER ON SR 1308

TYPE OF WORK: UTILITY WORK - WATER



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN
UC-3	UTILITY DETAILS

WATER AND SEWER OWNERS ON PROJECT
(A) WATER CITY OF KANNAPOLIS



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES UNIT
ENGINEERING SECTION
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
John A. Nigro, P.E. UTILITIES PROJECT DESIGNER

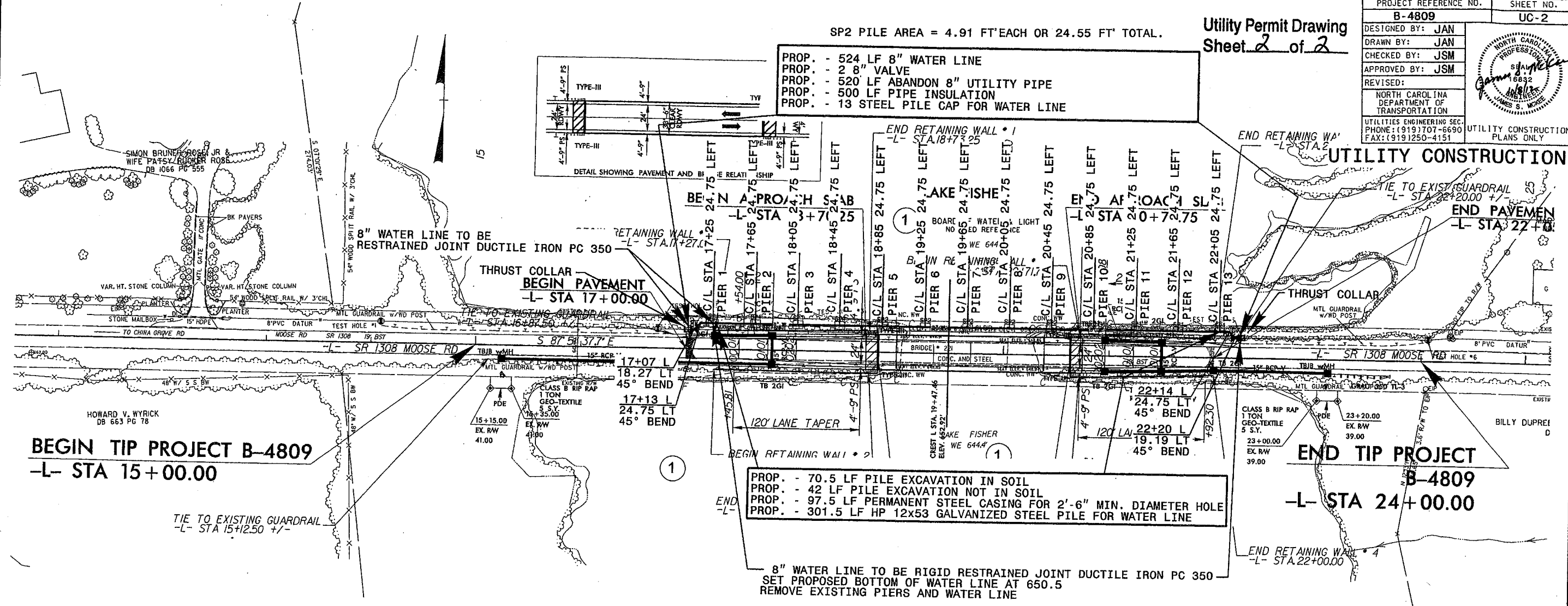
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\$\$\$\$\$USERNAME\$\$\$\$\$

5/14/93

SP2 PILE AREA = 4.91 FT' EACH OR 24.55 FT' TOTAL.

Utility Permit Drawing
Sheet 2 of 2

PROJECT REFERENCE NO. B-4809	SHEET NO. UC-2
DESIGNED BY: JAN	
DRAWN BY: JAN	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION PLANS ONLY	

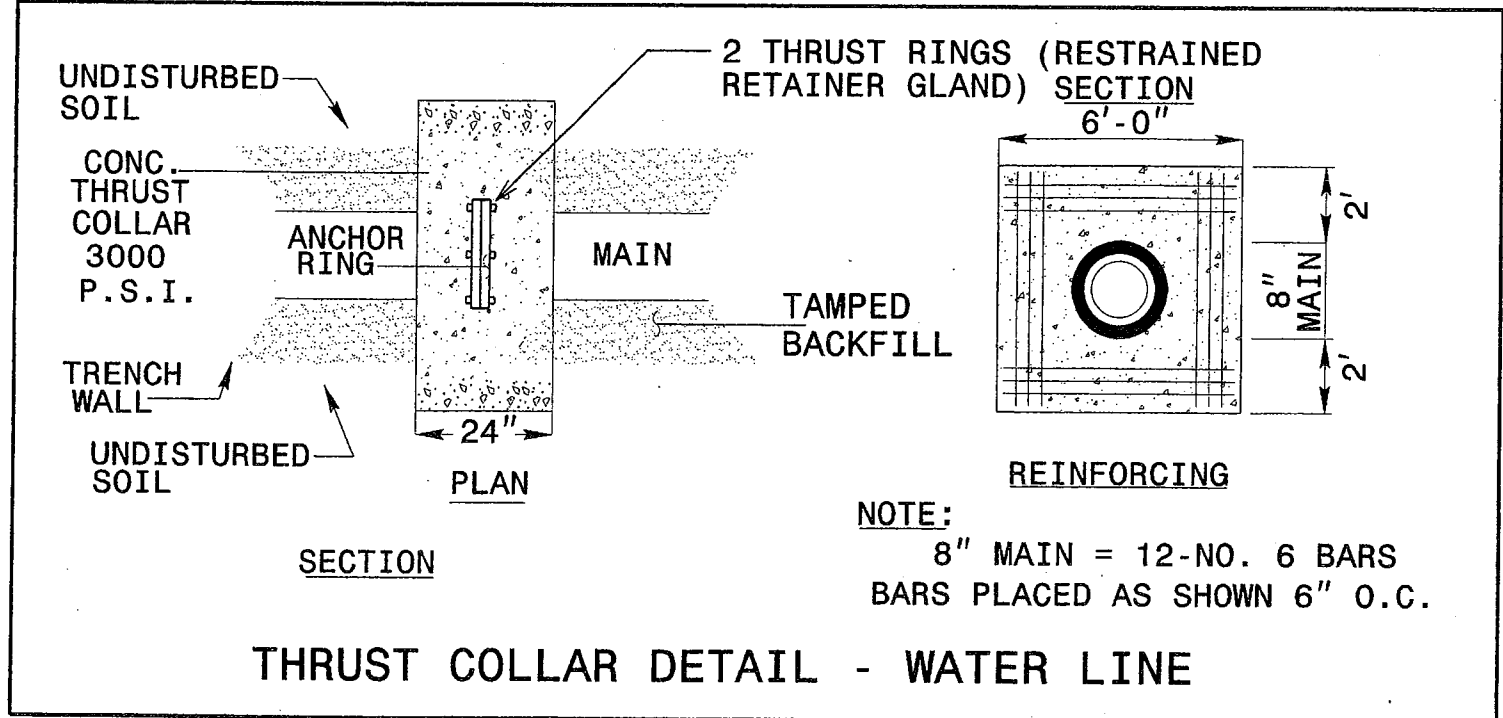


BEGIN TIP PROJECT B-4809
-L- STA 15+00.00

PROPOSED WORK:

- 70.5 LF PILE EXCAVATION IN SOIL
- 42 LF PILE EXCAVATION NOT IN SOIL
- 97.5 LF PERMANENT STEEL CASING FOR 2'-6" MIN. DIAMETER HOLE
- 301.5 LF HP 12x53 GALVANIZED STEEL PILE FOR WATER LINE

8" WATER LINE TO BE RIGID RESTRAINED JOINT DUCTILE IRON PC 350
 SET PROPOSED BOTTOM OF WATER LINE AT 650.5
 REMOVE EXISTING PIERS AND WATER LINE



08-067-202 Ut... P-cj\B4809\Ut-4_UC2.dgn