

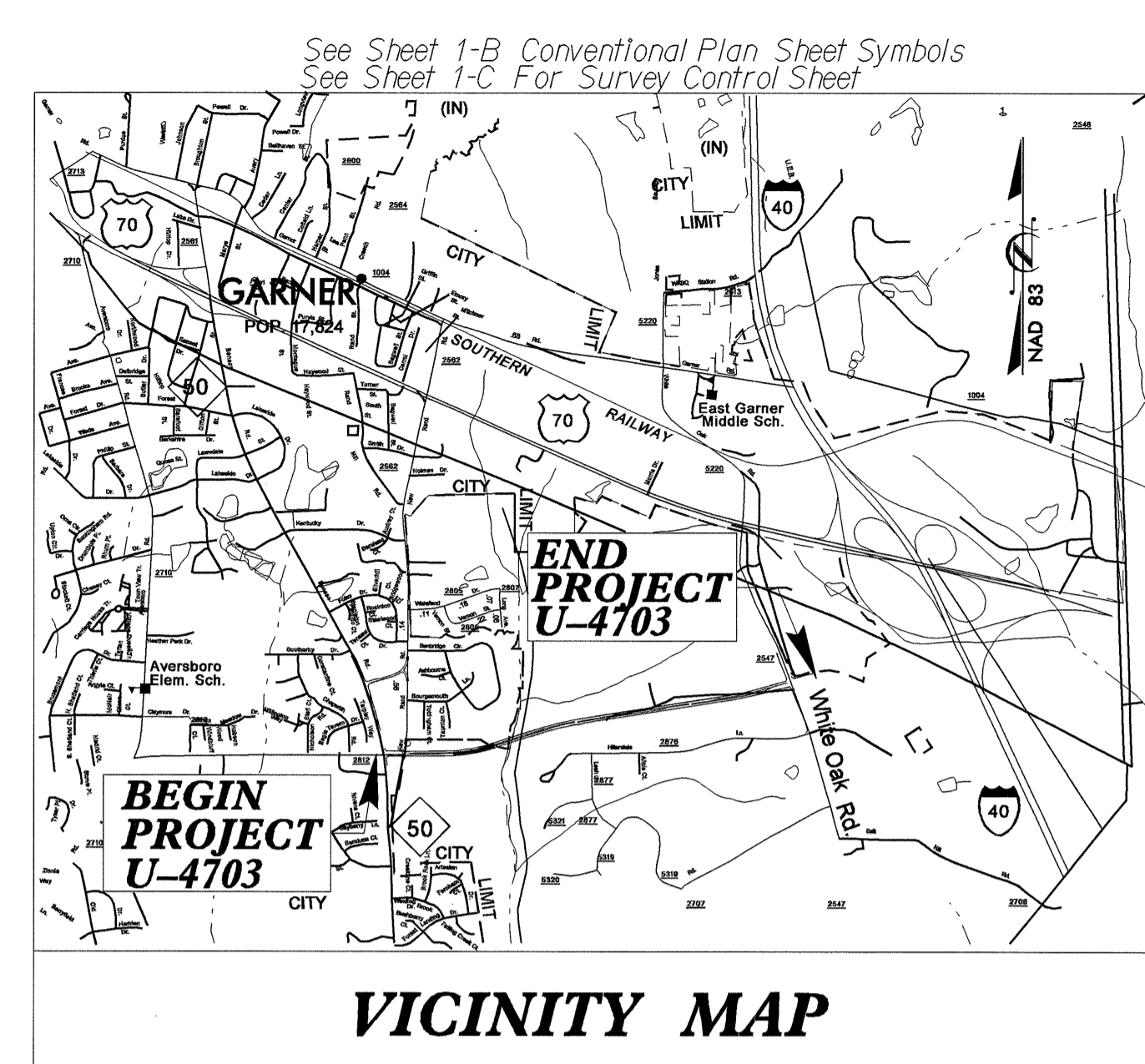
T.I.P. NO.	SHEET NO.
U-4703	UC-1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS  
WAKE COUNTY**

**LOCATION: TIMBER DRIVE EAST EXTENSION (SR 2812)  
FROM NC 50 TO WHITE OAK ROAD (SR 2547) IN GARNER**

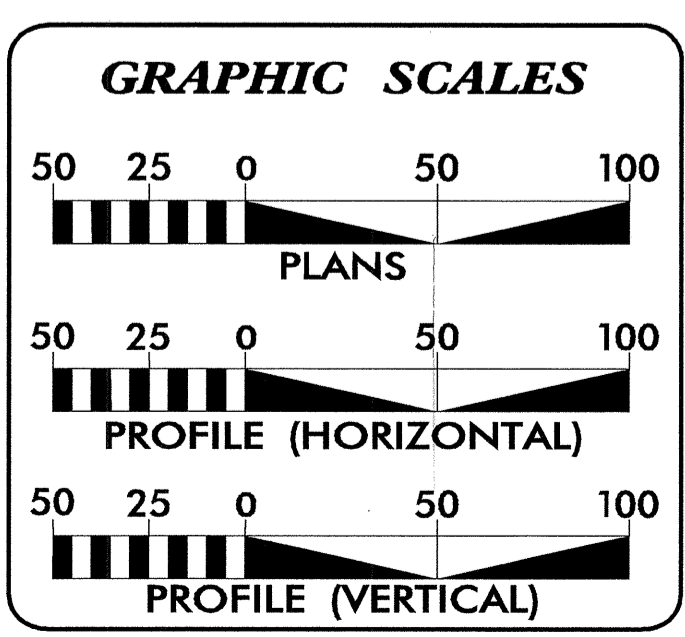
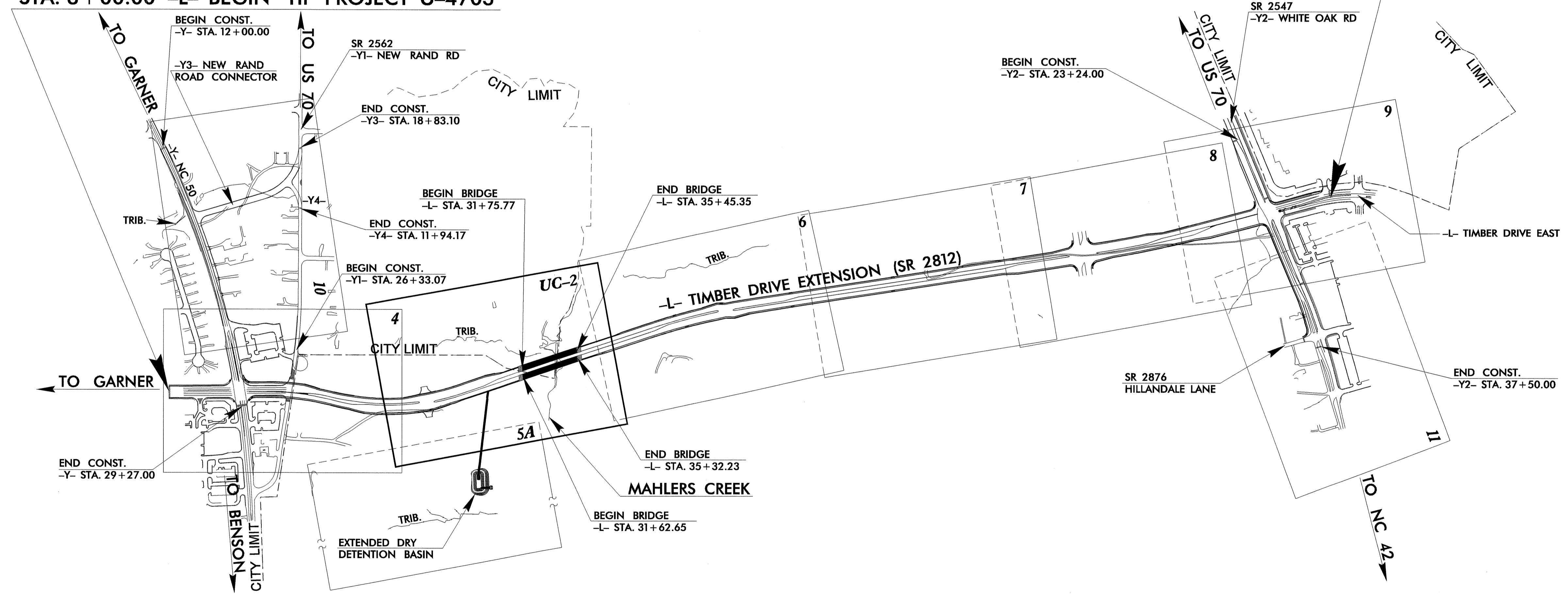
**TYPE OF WORK: UTILITY CONSTRUCTION**



**TIP PROJECT: U-4703**

STA. 8+00.00 -L- BEGIN TIP PROJECT U-4703

STA. 84+50.00 -L- END TIP PROJECT U-4703

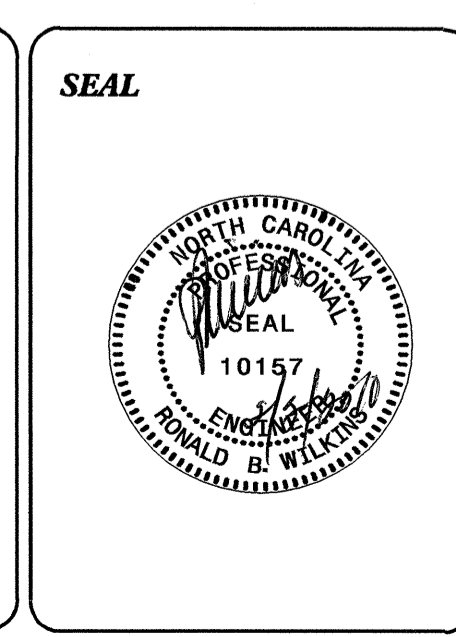


**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	PLAN SHEET
UC-3	PROFILE SHEET

**WATER AND SEWER OWNERS ON PROJECT**

(1) SANITARY SEWER - CITY OF RALEIGH



PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
PROJECT SERVICES  
UTILITY SECTION**

1591 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1591  
PHONE (919) 250-4128  
FAX (919) 250-4119

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**R. B. WILKINS, PE** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**MICHAEL R. BRIGHT** UTILITIES PROJECT DESIGNER

07-JAN-2010 08:16 F:\Utilities\proj\ut\4703\ut\_title\_ucl.psh.dgn \$\$\$USERNAME\$\$\$

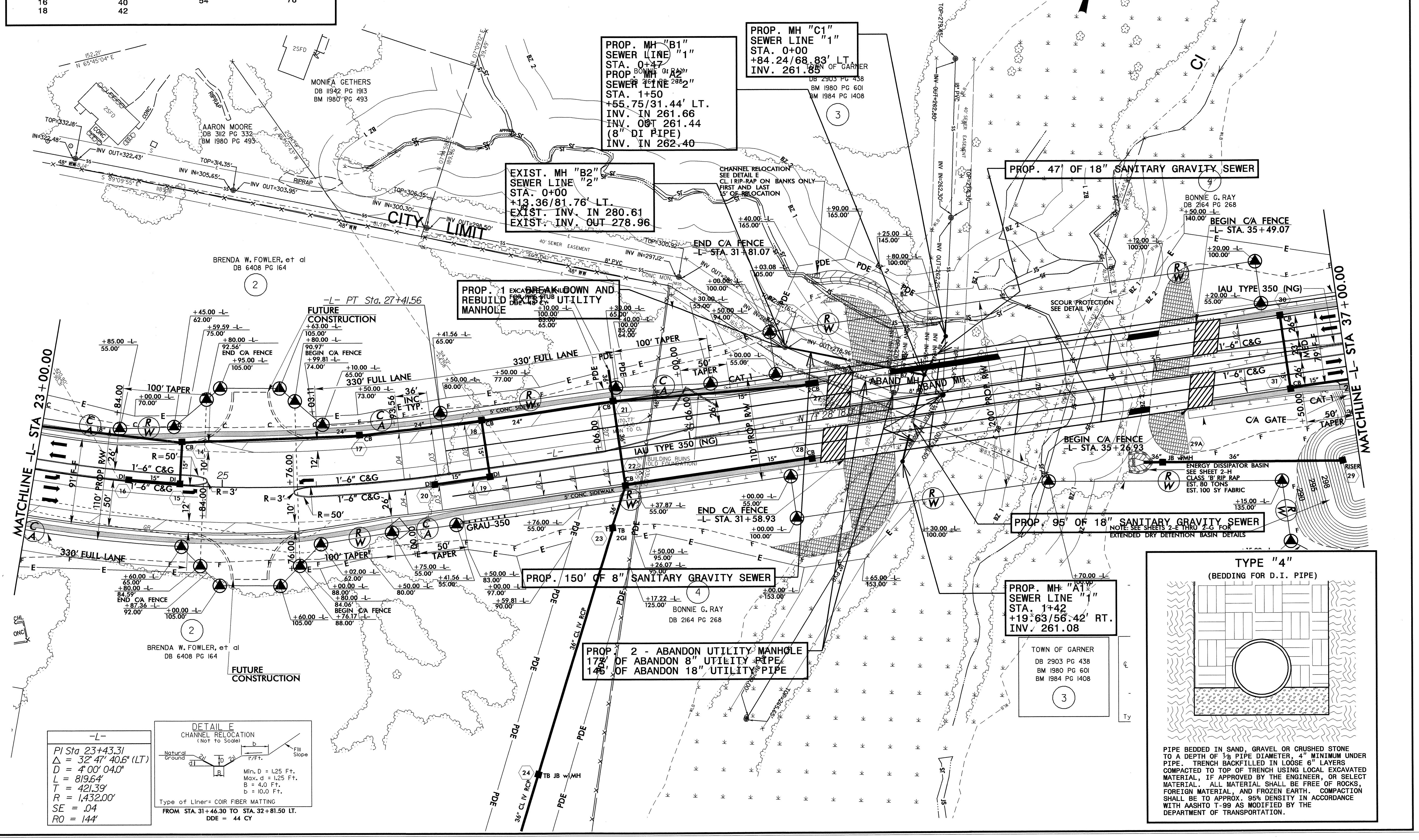


5/14/99

NOTE: ALL GRAVITY SANITARY SEWER PIPE SHALL BE DUCTILE IRON PIPE

PROJECT REFERENCE NO.	U-4703	SHEET NO.	UC-2
DESIGNED BY:	MRB		
DRAWN BY:	MRB		
CHECKED BY:	RBW		
APPROVED BY:	RBW		
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
		UTILITY CONSTRUCTION PLANS ONLY	

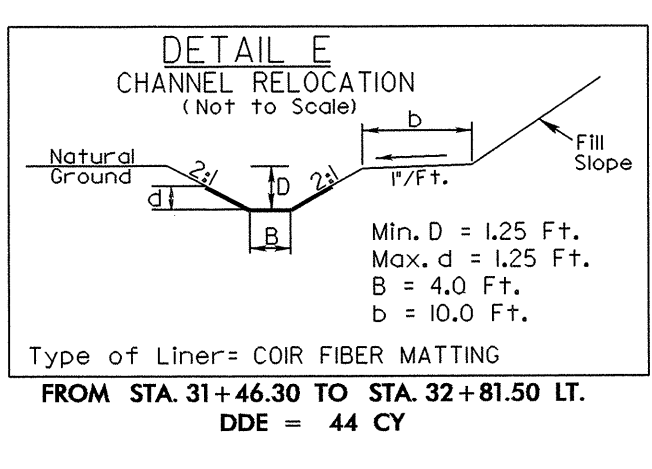
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



**TYPE "4"**  
(BEDDING FOR D.I. PIPE)

PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO A DEPTH OF 1/2 PIPE DIAMETER, 4" MINIMUM UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

-L-  
 PI Sta. 23+43.31  
 $\Delta = 32^\circ 47' 40.6''$  (LT)  
 D = 4' 00" 04.0"  
 L = 819.64'  
 T = 421.39'  
 R = 1432.00'  
 SE = .04  
 RO = 144'



02-FEB-2000 15:43 R:\U\1333\PROJECTS\U-4703\U-4703.ut\_5.uc2.psh.dgn

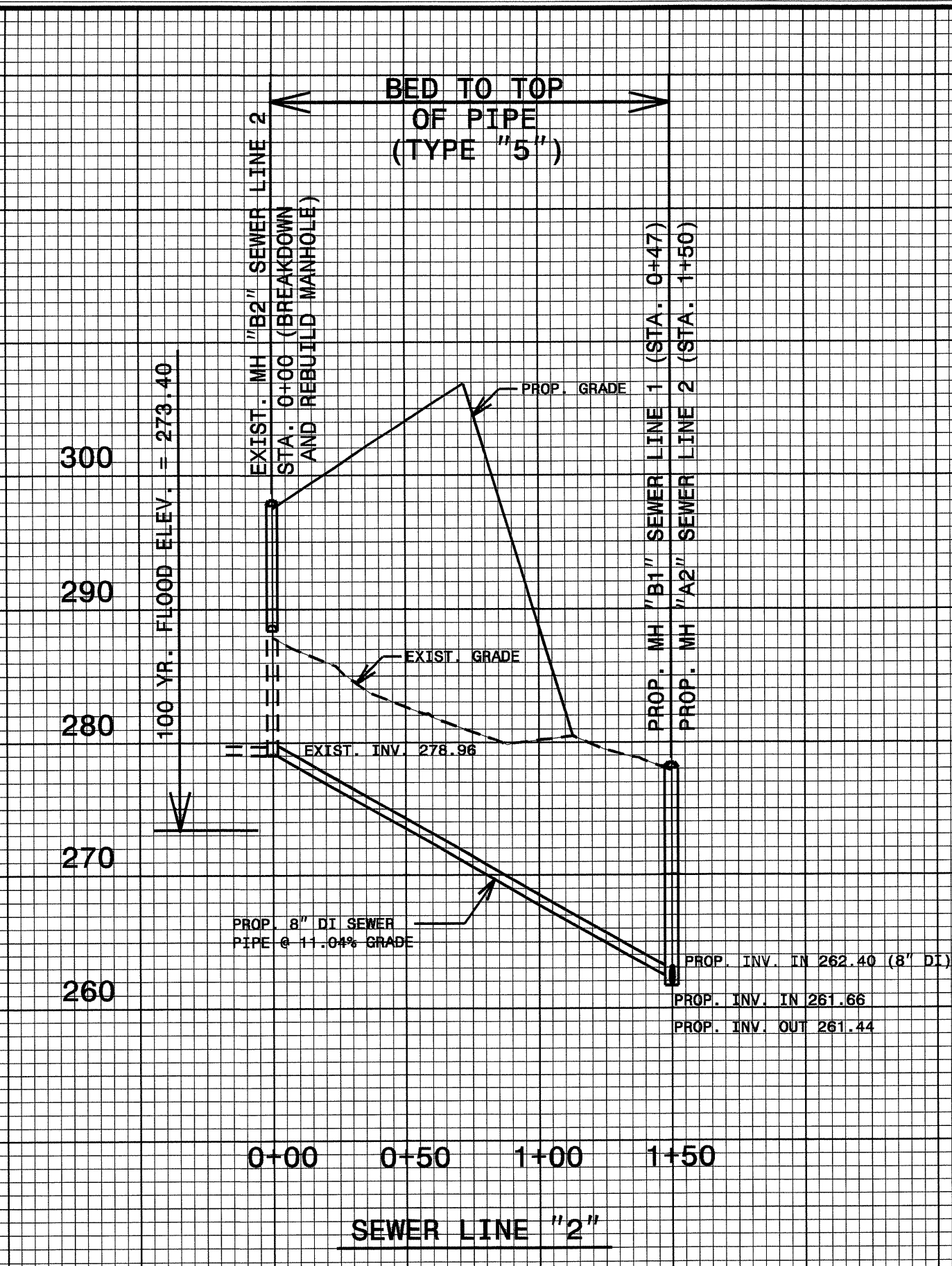
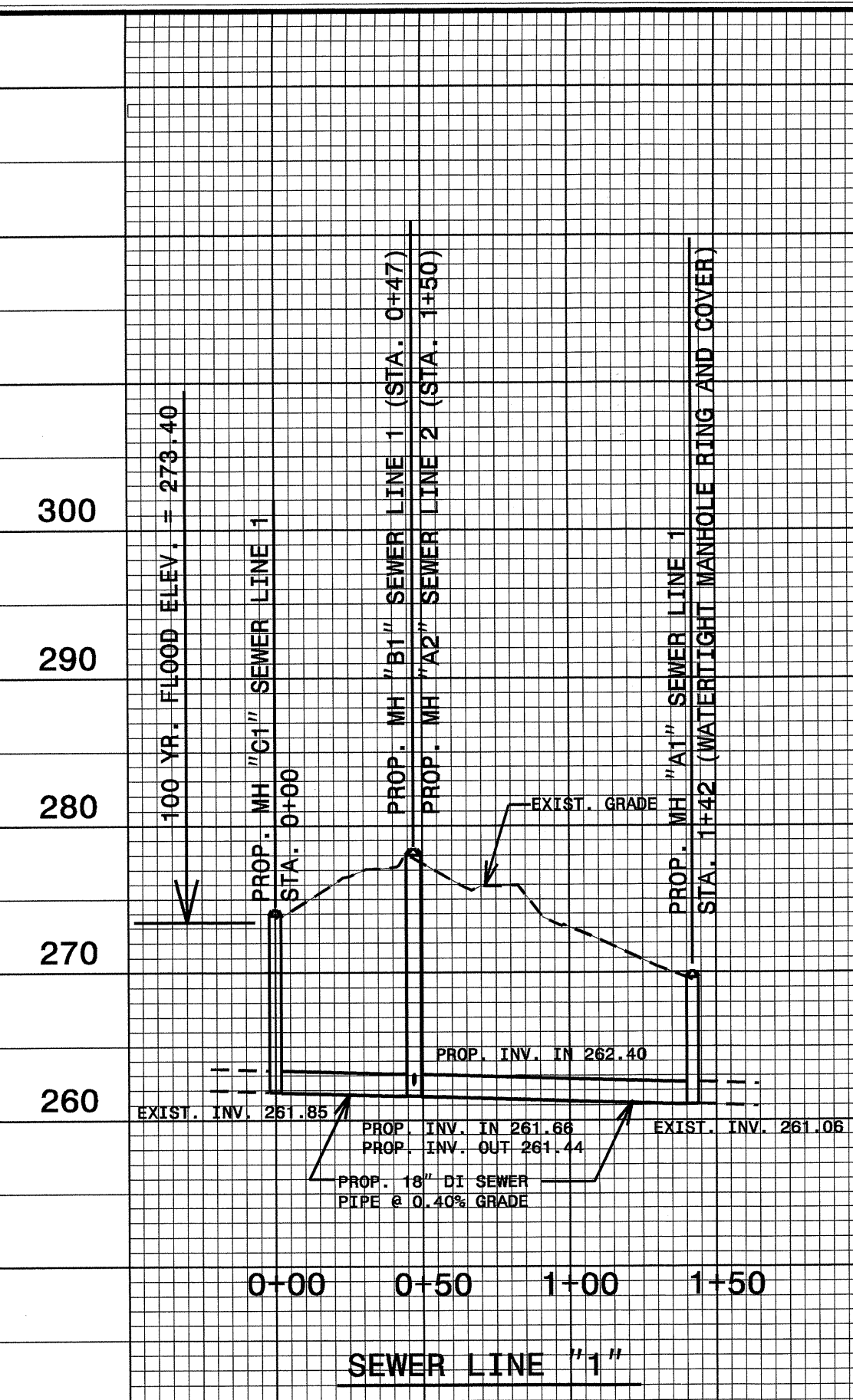


5/14/99

02-FEB-2010 14:16 U:\Projects\4703-ut-prof-uc3-upr.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-4703	UC-3
DESIGNED BY: MRB	
DRAWN BY: MRB	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION



**TYPE "5"**  
(BEDDING FOR DI PIPE)

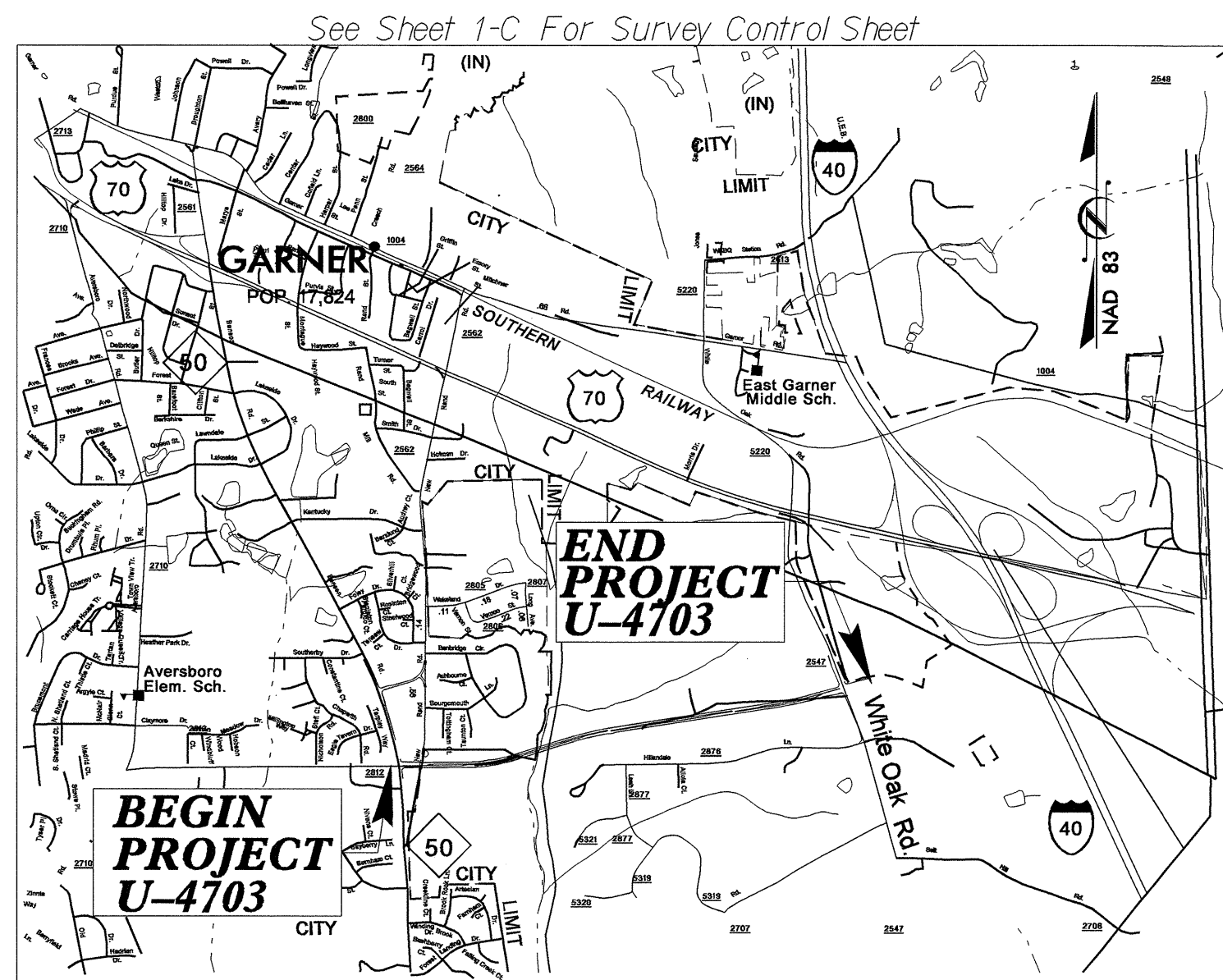
PIPE BEDDED IN LOOSE 6" LAYERS OF NCDOT #67 STONE TO TOP OF PIPE. 4" MINIMUM UNDER PIPE. TRENCH BACKFILLED IN TAMPED 6" LAYERS TO TOP OF TRENCH USING NCDOT #67 STONE. ALL MATERIAL SHALL BE FREE OF ANY FOREIGN MATERIAL, AND FROZEN EARTH.



09/08/99

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

**TIP PROJECT: U-4703**



**VICINITY MAP**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS  
WAKE COUNTY**

**LOCATION: TIMBER DRIVE EAST EXTENSION (SR 2812)  
FROM NC 50 TO WHITE OAK ROAD (SR 2547) IN GARNER**

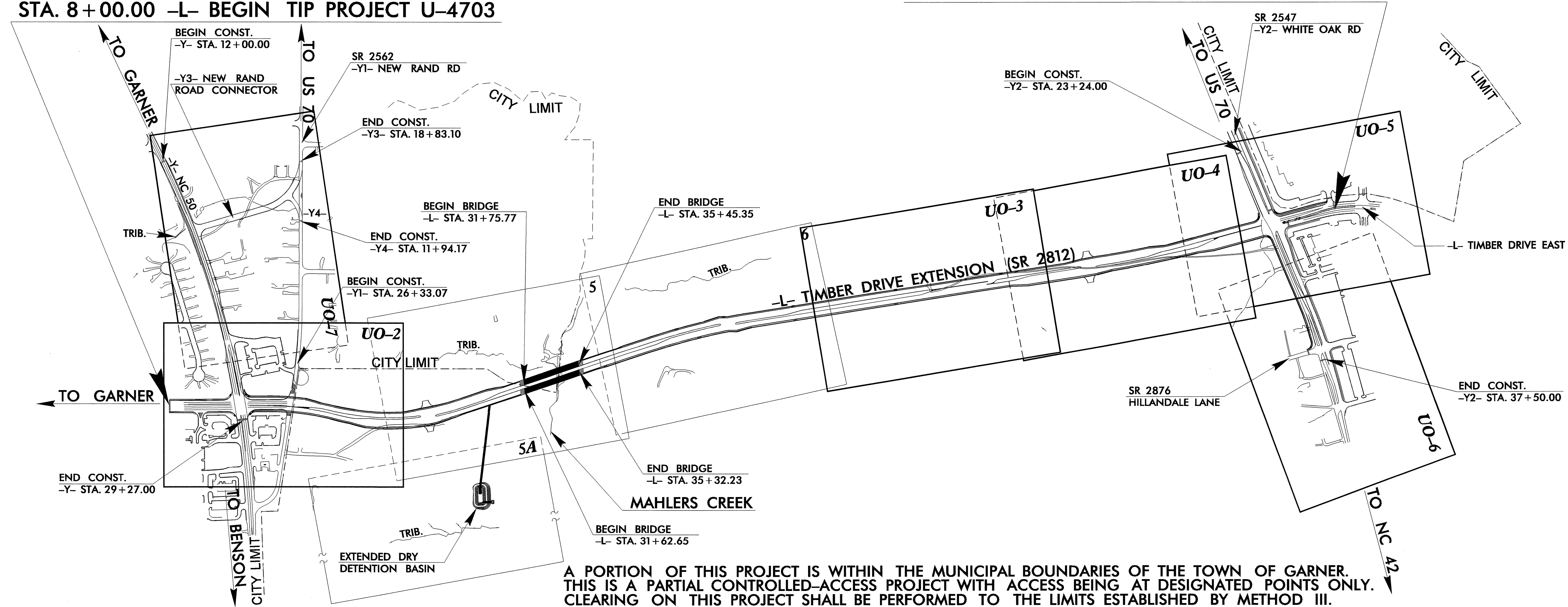
**TYPE OF WORK: UTILITIES BY OTHERS**

T.I.P. NO.	SHEET NO.
U-4703	UO-1

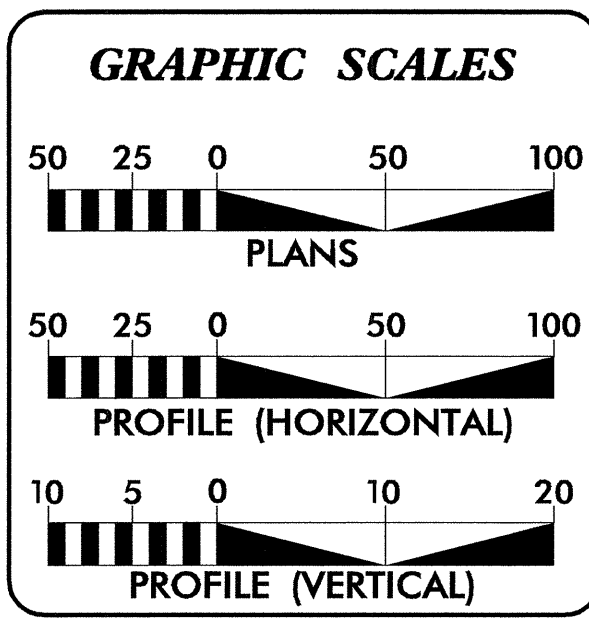


STA. 8+00.00 -L- BEGIN TIP PROJECT U-4703

STA. 84+50.00 -L- END TIP PROJECT U-4703



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF GARNER. THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING AT DESIGNATED POINTS ONLY. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-7	UTILITY BY OTHERS PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

- (1) POWER (DISTRIBUTION) - PROGRESS ENERGY
- (2) TELEPHONE - AT&T
- (3) CATV - TIME WARNER CABLE
- (4) WATER - CITY OF RALEIGH
- (5) GAS - PSNC ENERGY

PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
PROJECT SERVICES  
UTILITY SECTION**

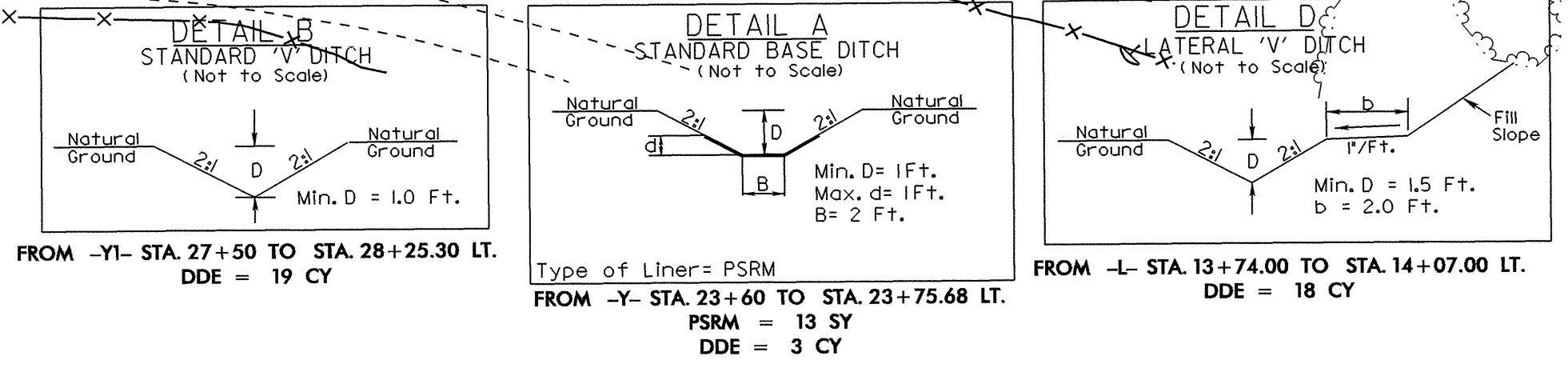
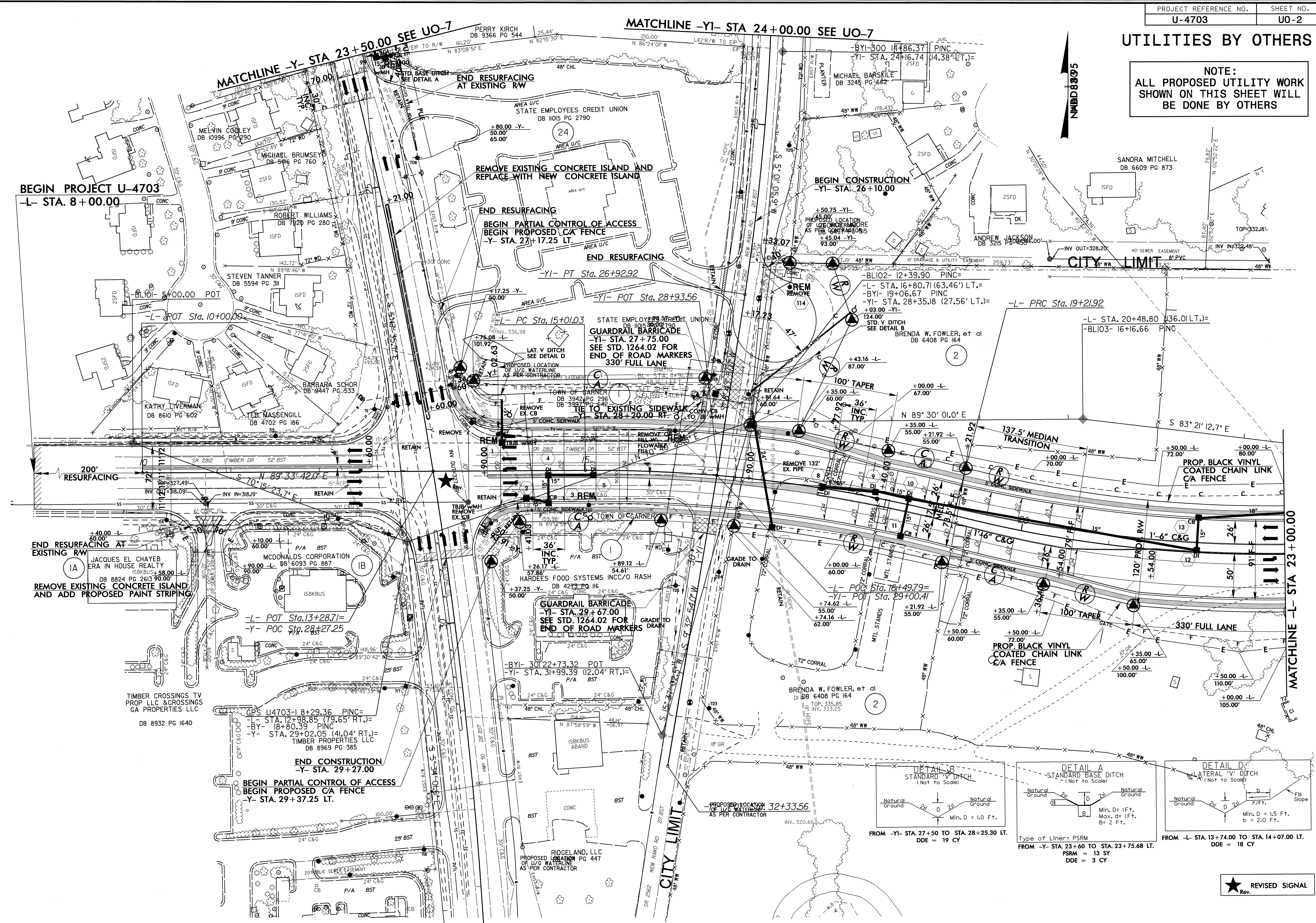
1591 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1591  
PHONE (919) 250-4128  
FAX (919) 250-4119

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**R.B. Wilkins, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Michael R. Bright** UTILITIES PROJECT DESIGNER



UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



★ REVISED SIGNAL

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 5/14/99



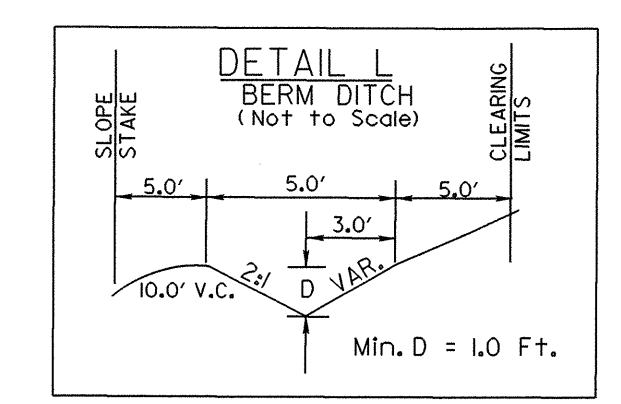
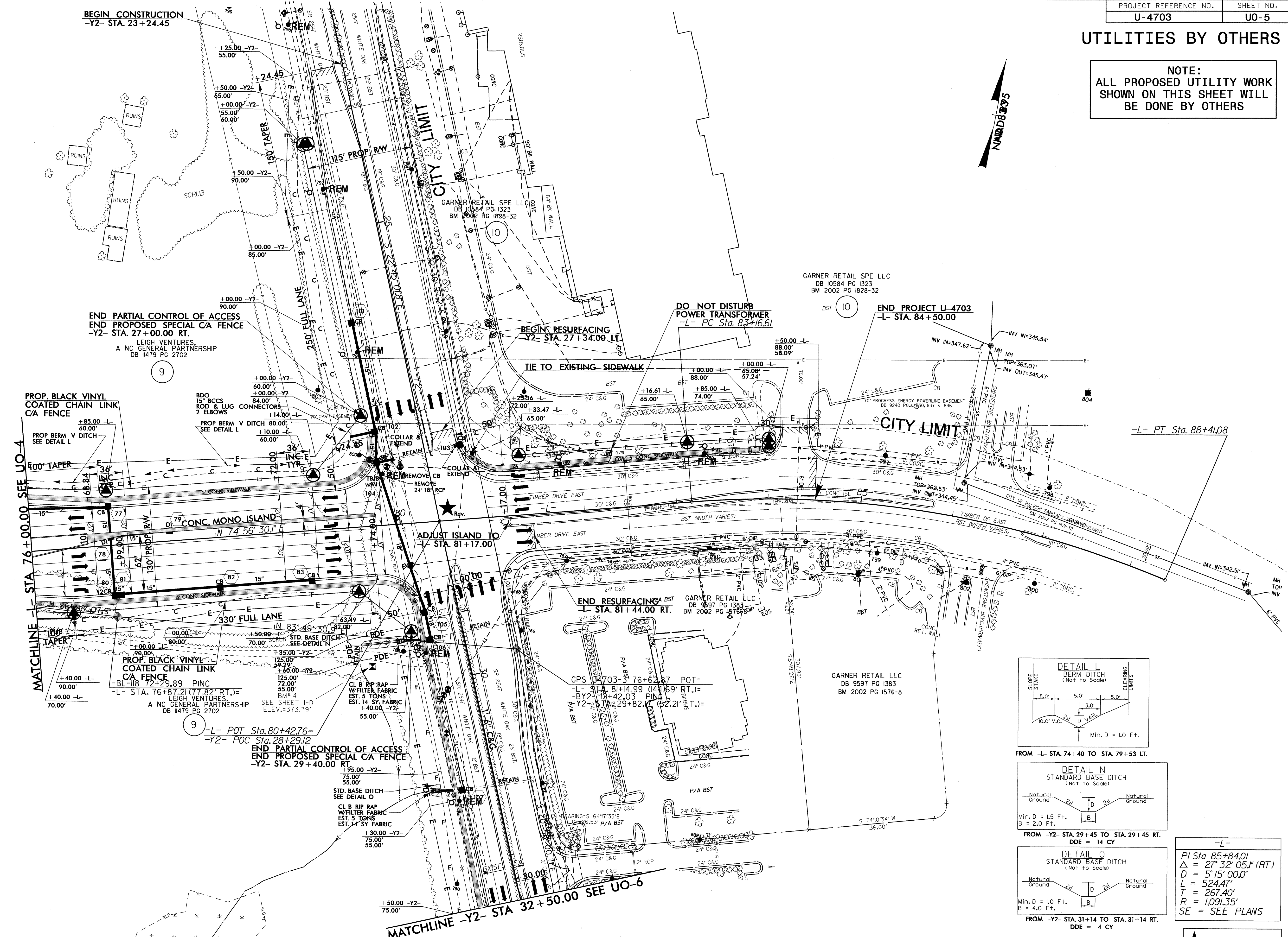
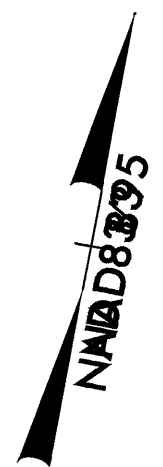




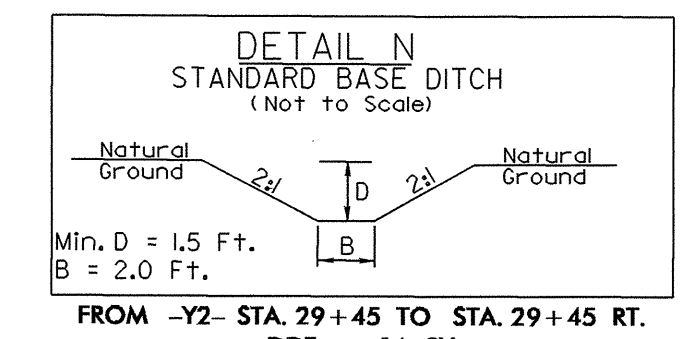


UTILITIES BY OTHERS

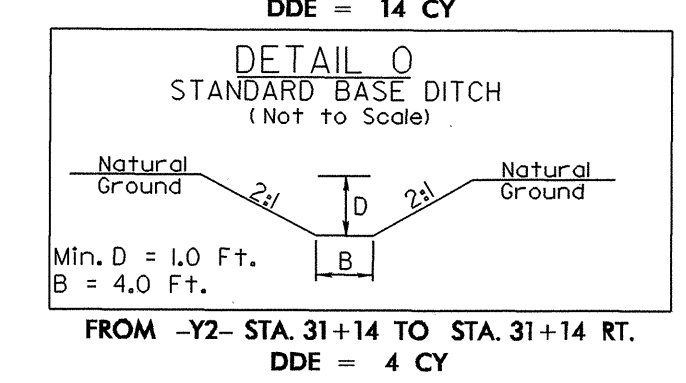
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



FROM -L- STA. 74+40 TO STA. 79+53 LT.



FROM -Y2- STA. 29+45 TO STA. 29+45 RT. DDE = 14 CY



FROM -Y2- STA. 31+14 TO STA. 31+14 RT. DDE = 4 CY

-L-  
PI Sta 85+84.01  
Δ = 27° 32' 05.1" (RT)  
D = 5' 15' 00.0"  
L = 524.47'  
T = 267.40'  
R = 1,091.35'  
SE = SEE PLANS

★ Rev. REVISED SIGNAL

5/14/99

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