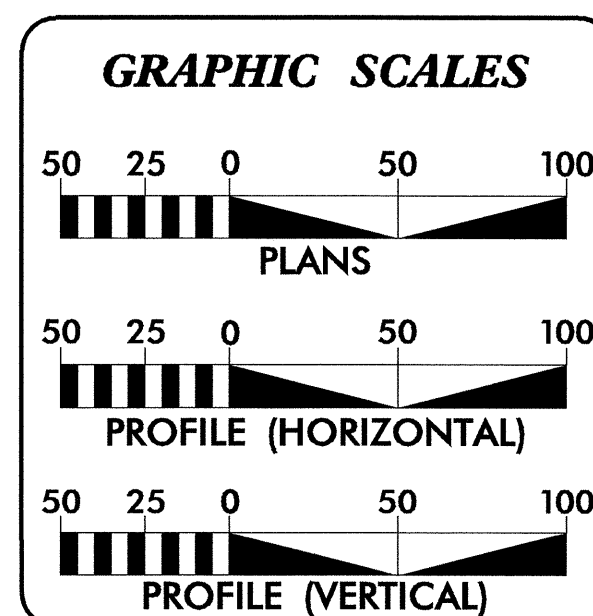
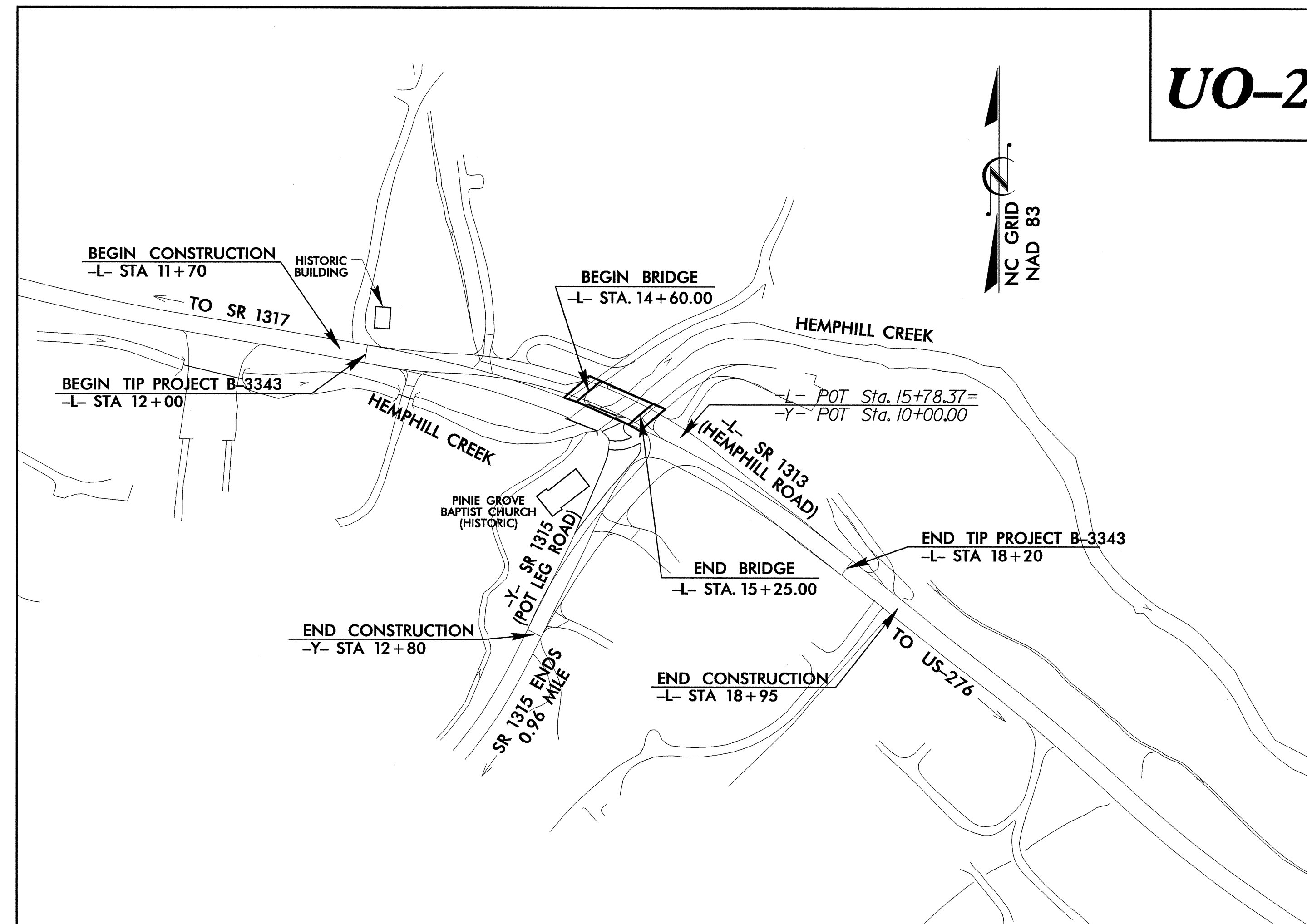
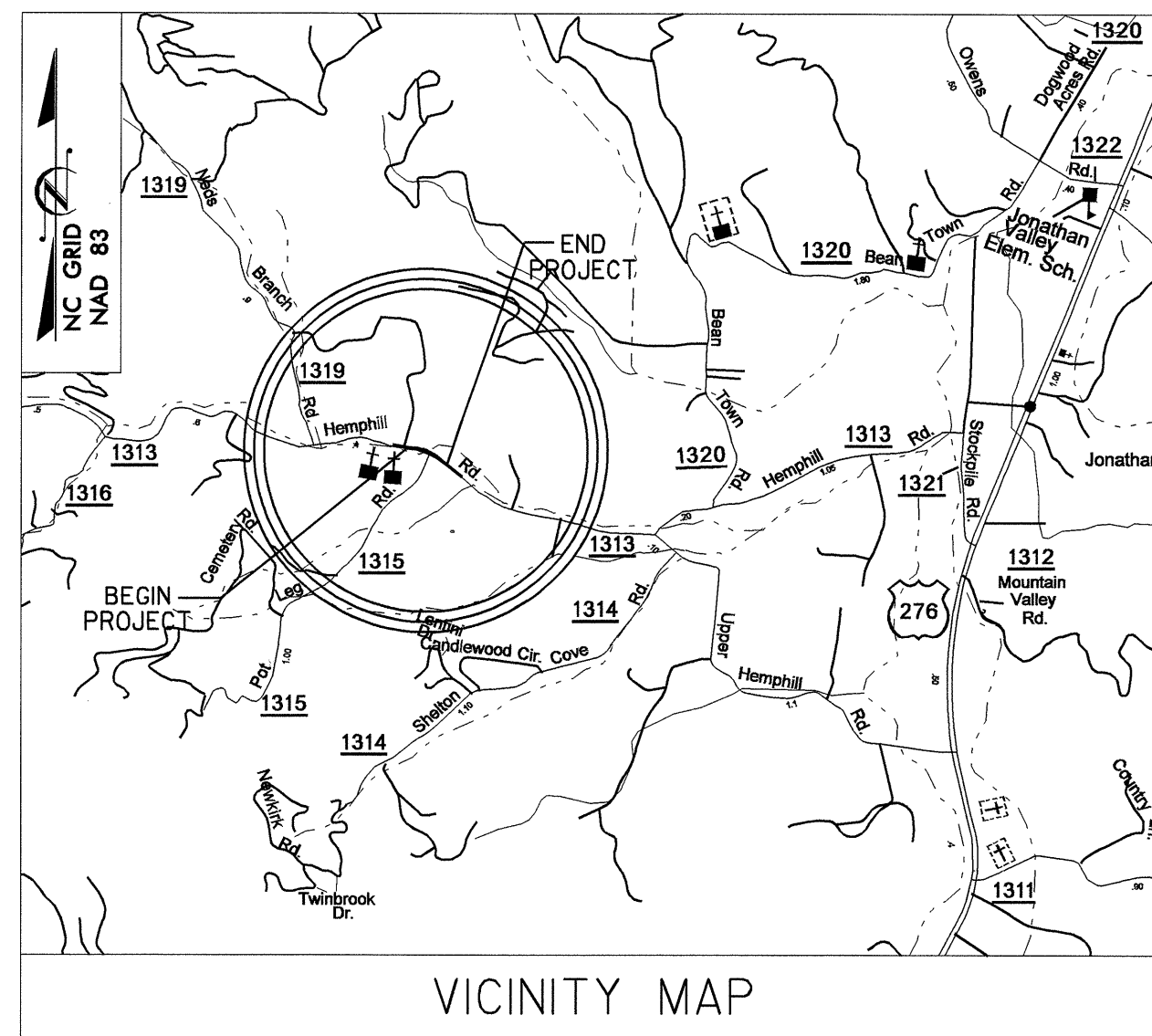


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS
HAYWOOD COUNTY**

**LOCATION: BRIDGE No. 48 OVER HEMPHILL CREEK
ON SR 1313**
TYPE OF WORK: RELOCATE OVERHEAD POWER AND TELEPHONE

TIP PROJECT: B-3343



INDEX OF SHEETS

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

UTILITY OWNERS ON PROJECT

(1) TELEPHONE - AT&T
(2) POWER - HAYWOOD EMC

PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

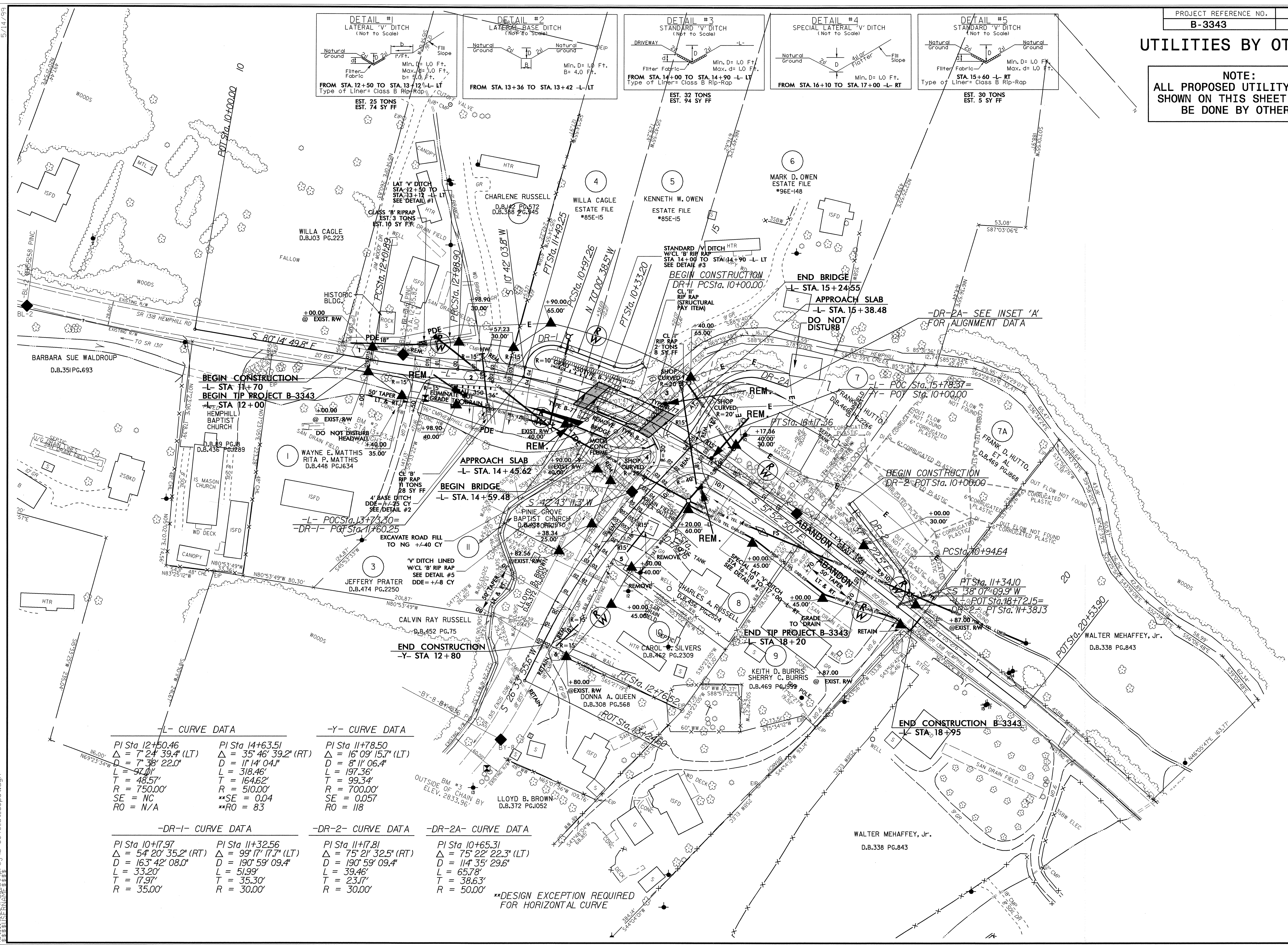
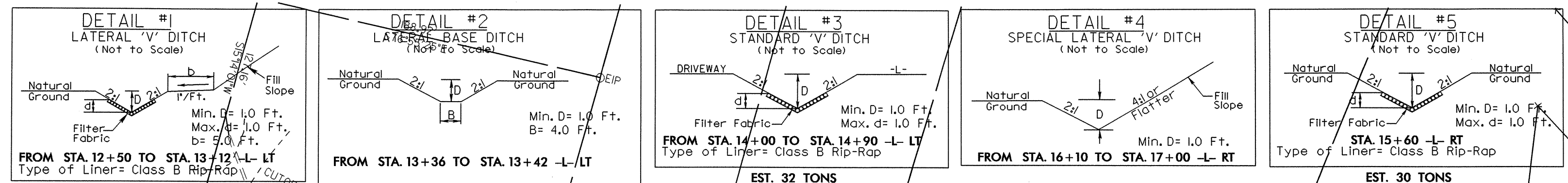
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Ali Kouchehi, PE UTILITIES PROJECT DESIGNER

04-NOV-2008 10:53
r:\utilities\rdy\ut\proj\B-3343\ut_title_u01.psh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

UTILITIES BY OTHERS

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



-L- CURVE DATA		-Y- CURVE DATA	
PI Sta 12+50.46	PI Sta 14+63.51	PI Sta 11+78.50	
$\Delta = 7^\circ 24' 39.4''$ (LT)	$\Delta = 35^\circ 46' 39.2''$ (RT)	$\Delta = 16^\circ 09' 15.7''$ (LT)	
$D = 7^\circ 38' 22.0''$	$D = 11^\circ 14' 04.1''$	$D = 8^\circ 11' 06.4''$	
$L = 97.01'$	$L = 318.46'$	$L = 197.36'$	
$T = 48.57'$	$T = 164.62'$	$T = 99.34'$	
$R = 750.00'$	$R = 510.00'$	$R = 700.00'$	
SE = NC	**SE = 0.04	SE = 0.057	
RO = N/A	**RO = 83	RO = 118	

-DR-1- CURVE DATA		-DR-2- CURVE DATA		-DR-2A- CURVE DATA	
PI Sta 10+17.97	PI Sta 11+32.56	PI Sta 11+17.81	PI Sta 10+65.31		
$\Delta = 54^\circ 20' 35.2''$ (RT)	$\Delta = 99^\circ 17' 17.7''$ (LT)	$\Delta = 75^\circ 21' 32.5''$ (RT)	$\Delta = 75^\circ 22' 22.3''$ (LT)		
$D = 163^\circ 42' 08.0''$	$D = 190^\circ 59' 09.4''$	$D = 190^\circ 59' 09.4''$	$D = 114^\circ 35' 29.6''$		
$L = 33.20'$	$L = 51.99'$	$L = 39.46'$	$L = 65.78'$		
$T = 17.97'$	$T = 35.30'$	$T = 23.17'$	$T = 38.63'$		
$R = 35.00'$	$R = 30.00'$	$R = 30.00'$	$R = 50.00'$		

**DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE

11-FEB-2009 09:54