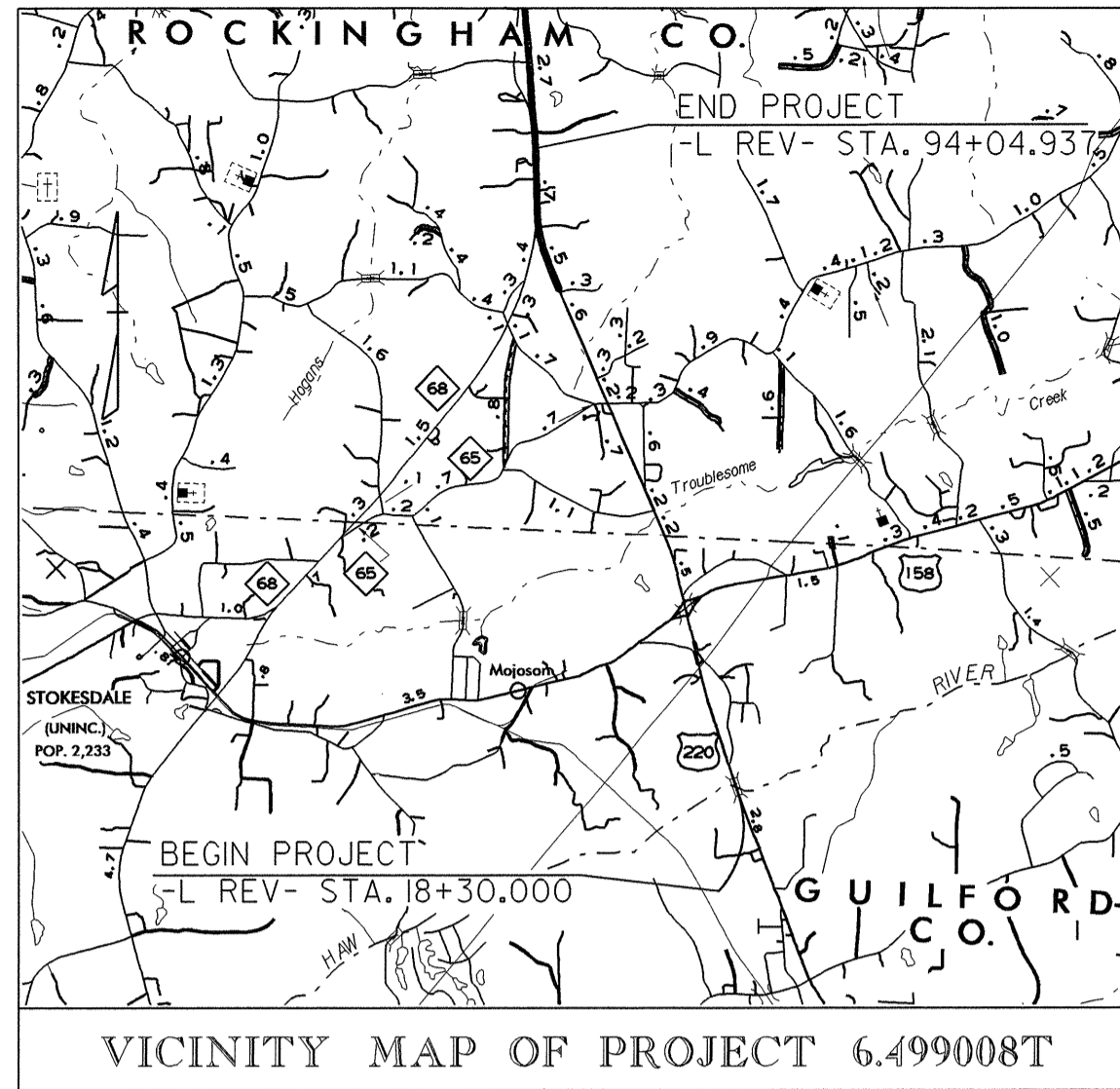


TIP: R-2413C

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS



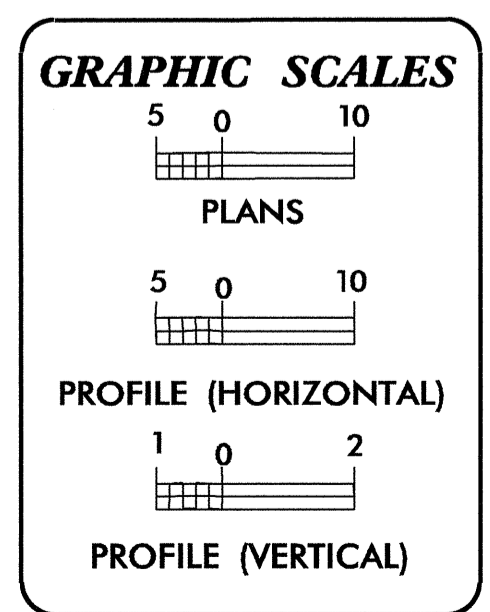
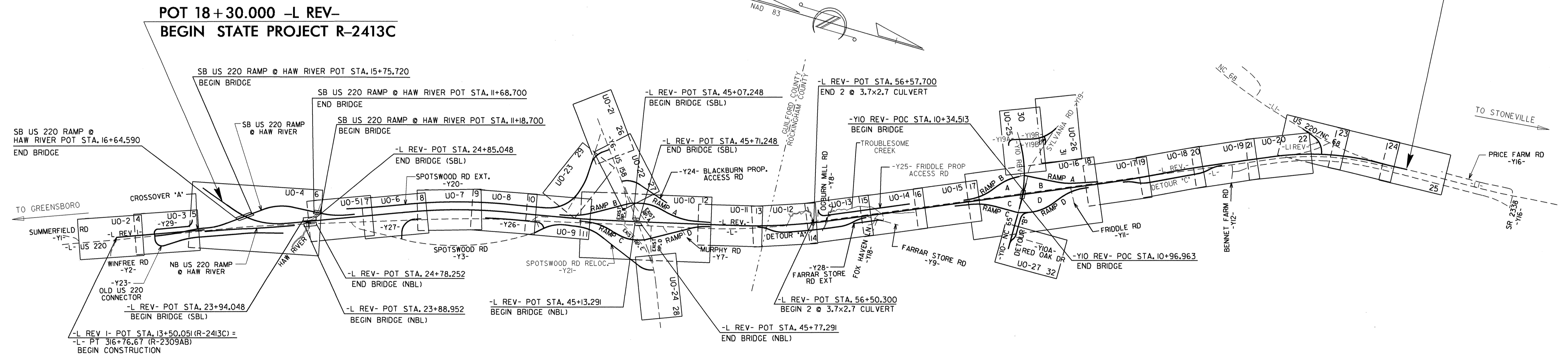
T.I.P. NO.	SHEET NO.
R-2413C	UO-1

**UTILITIES BY OTHERS PLANS  
GUILFORD-ROCKINGHAM COUNTIES**

**LOCATION: US 220 FROM SOUTH OF HAW RIVER TO  
THE INTERSECTION OF US 220 AND EXISTING NC 68**

**TYPE OF WORK: UTILITY WORK BY OTHERS**

POT 94+04.937 -L REV- =  
ST 23+08.747 -L1-  
END STATE PROJECT R-2413C



**INDEX OF SHEETS**

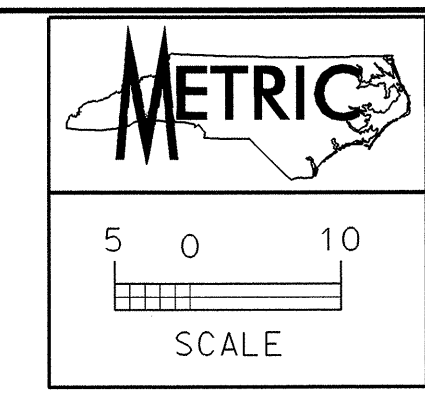
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-27	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT**
- (A) DUKE ENERGY - POWER TRANSMISSION
  - (B) DUKE ENERGY - POWER DISTRIBUTION
  - (C) TIME WARNER CABLE - CABLE TV
  - (D) A T & T - TELEPHONE
  - (E) WILLIAMS PIPELINE - GAS TRANSMISSION
  - (F) CENTURYLINK COMMUNICATIONS - TELEPHONE
  - (G) LEVEL3 COMMUNICATIONS - FIBER OPTICS
  - (H) PIEDMONT NATURAL GAS - GAS DISTRIBUTION

PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
UTILITIES UNIT  
UTILITY SECTION ENGINEER**

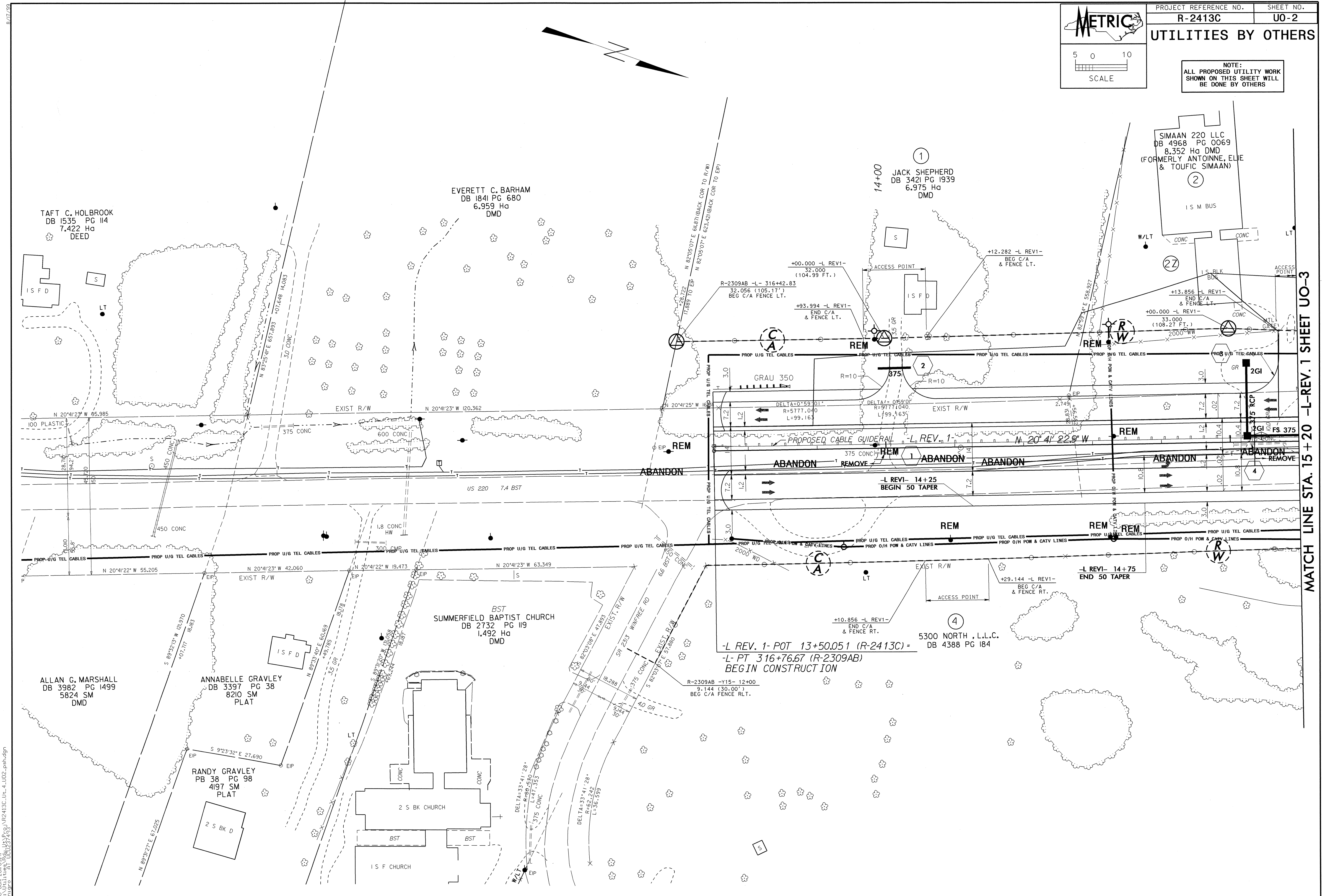
1555 MAIL SERVICES CENTER  
RALEIGH NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4119

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



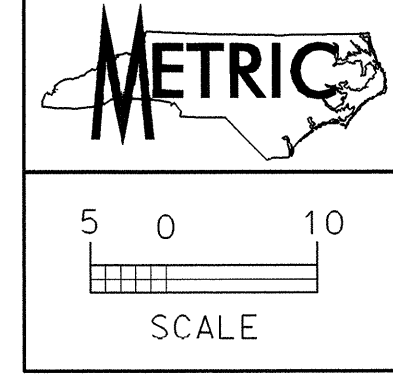
**UTILITIES BY OTHERS**

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



MATCH LINE STA. 15 + 20 -L-REV. 1 SHEET UO-3

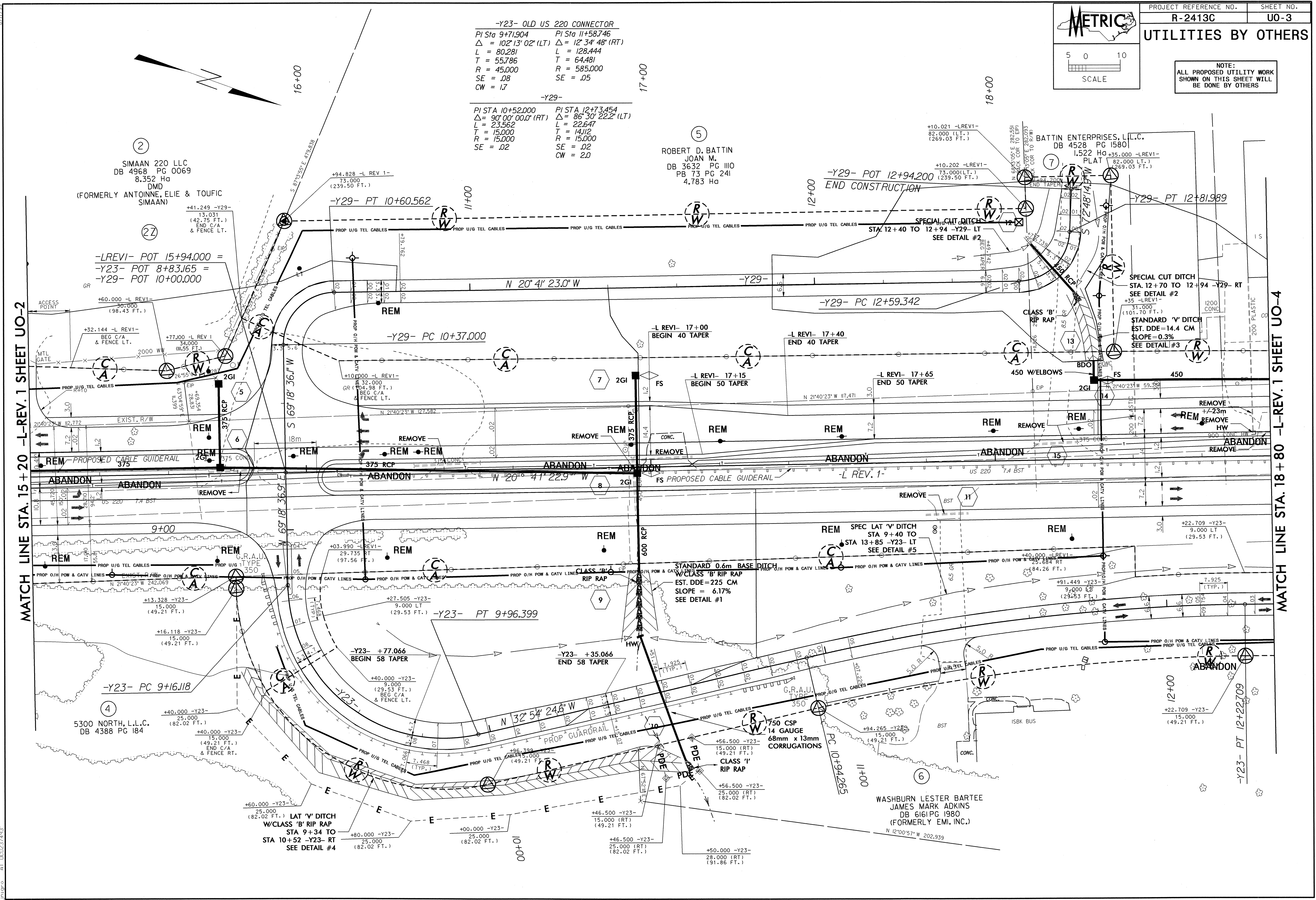
20 JUN 2010 08:41  
 C:\Users\jw\Documents\Projects\R2413C\UO-2\UO-2.dwg  
 jw



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

-Y23- OLD US 220 CONNECTOR  
PI Sta 9+71.904 PI Sta 11+58.746  
 $\Delta = 102^{\circ}13'02''$  (LT)  $\Delta = 12^{\circ}34'48''$  (RT)  
L = 80.281 L = 128.444  
T = 55.786 T = 64.481  
R = 45.000 R = 585.000  
SE = .08 SE = .05  
CW = 17 CW = 2.0

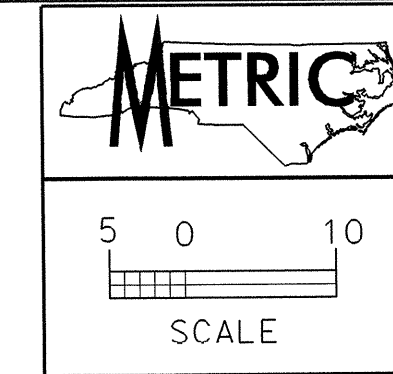
-Y29-  
PI STA 10+52.000 PI STA 12+73.454  
 $\Delta = 90^{\circ}00'00.0''$  (RT)  $\Delta = 86^{\circ}30'22.2''$  (LT)  
L = 23.562 L = 22.647  
T = 15.000 T = 14.113  
R = 15.000 R = 15.000  
SE = .02 SE = .02  
CW = 2.0 CW = 2.0



MATCH LINE STA. 15+20 -L-REV. 1 SHEET UO-2

MATCH LINE STA. 18+80 -L-REV. 1 SHEET UO-4

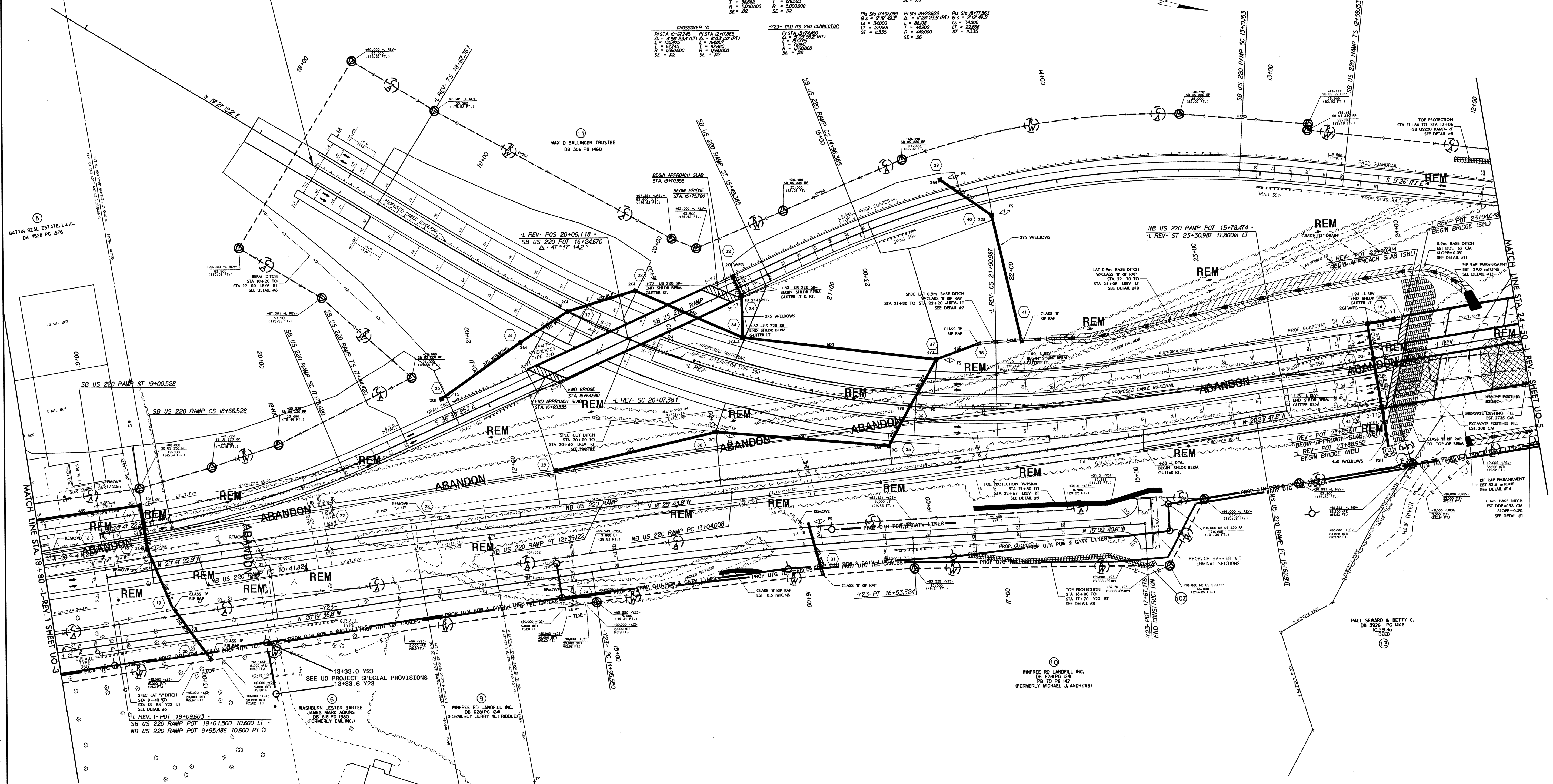
20-JUN-2010 09:55  
PROJECT: R-2413C-UT-5-UO3.prd  
DRAWN: JLS  
CHECKED: JLS  
SCALE: AS SHOWN



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

BEGIN TIP PROJECT R-2413C -L- REV- Sta. 18+30.000  
 END TIP PROJECT R-2413B -L- Sta. 520+20.000  
 TIE MEDIAN GUIDERAIL TO TIP PROJECT R-2413B  
 BEGIN CONSTRUCTION

-L- REV.		-L- REV.		-L- REV.	
PI STA 18+00.00	PI STA 20+00.00	PI STA 20+00.00	PI STA 20+00.00	PI STA 20+00.00	PI STA 20+00.00
LS = 648.537	LS = 648.537	LS = 648.537	LS = 648.537	LS = 648.537	LS = 648.537
LT = 40.875	LT = 40.875	LT = 40.875	LT = 40.875	LT = 40.875	LT = 40.875
ST = 20.438	ST = 20.438	ST = 20.438	ST = 20.438	ST = 20.438	ST = 20.438
SE = .06	SE = .06	SE = .06	SE = .06	SE = .06	SE = .06



20-JUN-2011 06:03  
 R:\UTILITIES\2413C\UO-4.L004\_psh.dgn  
 17+00

MATCH LINE STA 21+80 -L- REV. SHEET UO-3  
 MATCH LINE STA 18+30 -L- REV. SHEET UO-5

13+33.0 Y23  
 SEE UO PROJECT SPECIAL PROVISIONS  
 13+33.6 Y23

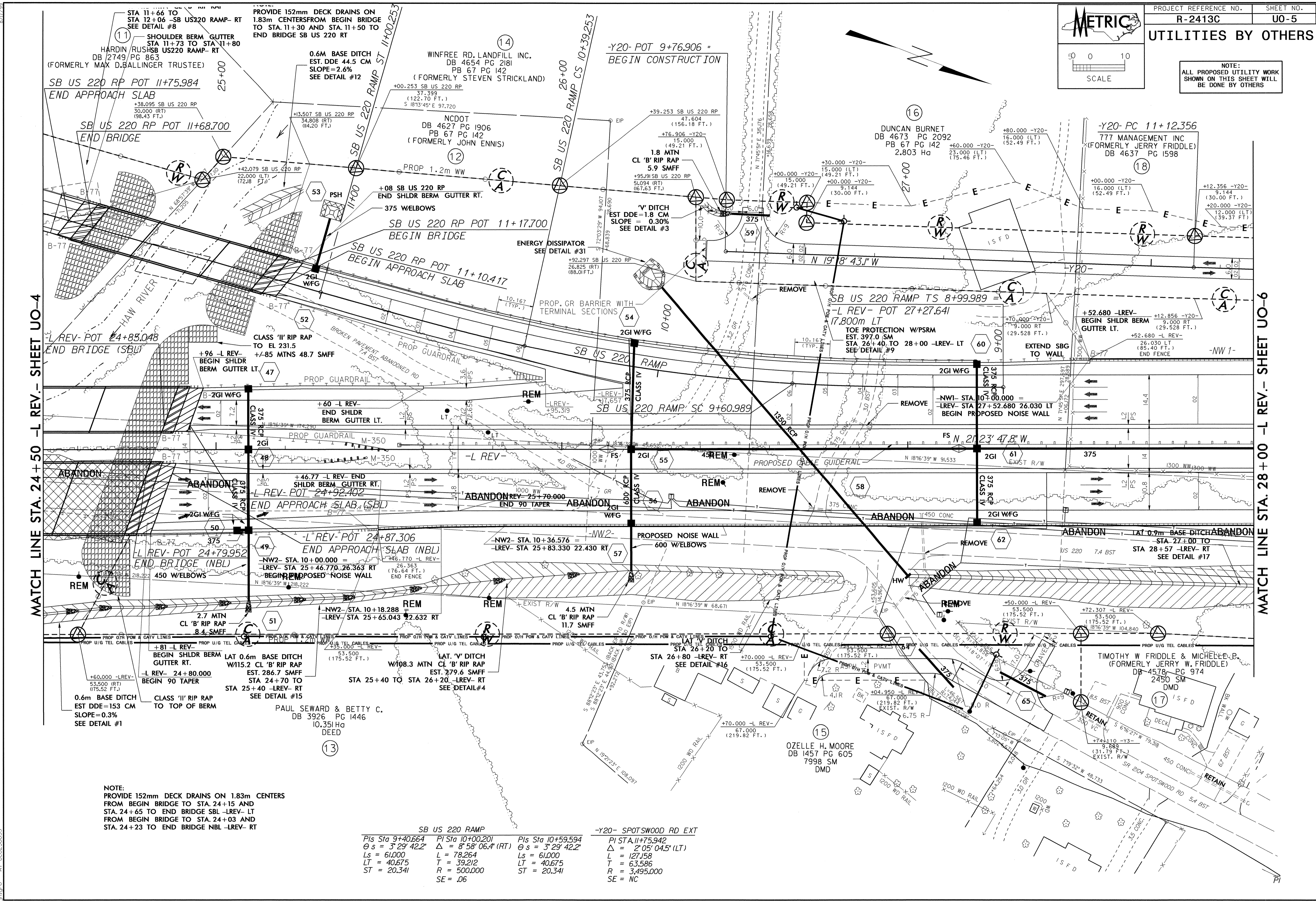
WASHBURN LESTER BARTEE  
 JAMES MARK ADKINS  
 DB 400 PC 2900  
 (FORMERLY E.M. INC.)

WINFREE RD LANDFILL INC.  
 DB 628 PC 124  
 TB TO PC 42  
 (FORMERLY MICHAEL J. ANDREWS)

PAUL SEWARD & BETTY C.  
 DB 326 PC 146  
 0.39 HG  
 DEED

BATTIN REAL ESTATE, L.L.C.  
 DB 4528 PG 1578

MAX D BALLINGER TRUSTEE  
 DB 3561 PC 1460



MATCH LINE STA. 24+50 - L REV. - SHEET UO-4

MATCH LINE STA. 28+00 - L REV. - SHEET UO-6

NOTE:  
 PROVIDE 152mm DECK DRAINS ON 1.83m CENTERS  
 FROM BEGIN BRIDGE TO STA. 24+15 AND  
 STA. 24+65 TO END BRIDGE SBL -LREV- LT  
 FROM BEGIN BRIDGE TO STA. 24+03 AND  
 STA. 24+23 TO END BRIDGE NBL -LREV- RT

SB US 220 RAMP			-Y20- SPOTSWOOD RD EXT		
PI Sta 9+40.664	PI Sta 10+00.201	PI Sta 10+59.594	PI Sta 11+75.942		
$\theta_s = 3^{\circ} 29' 42.2''$	$\Delta = 8^{\circ} 58' 06.4''$ (RT)	$\theta_s = 3^{\circ} 29' 42.2''$	$\Delta = 2^{\circ} 05' 04.5''$ (LT)		
Ls = 61.000	L = 78.264	Ls = 61.000	L = 127.158		
LT = 40.675	T = 39.212	LT = 40.675	T = 63.586		
ST = 20.341	R = 500.000	ST = 20.341	R = 3,495.000		
	SE = .06		SE = NC		

DATE: 01/08/24  
 DRAWN BY: J. H. ...  
 CHECKED BY: ...  
 PROJECT: ...

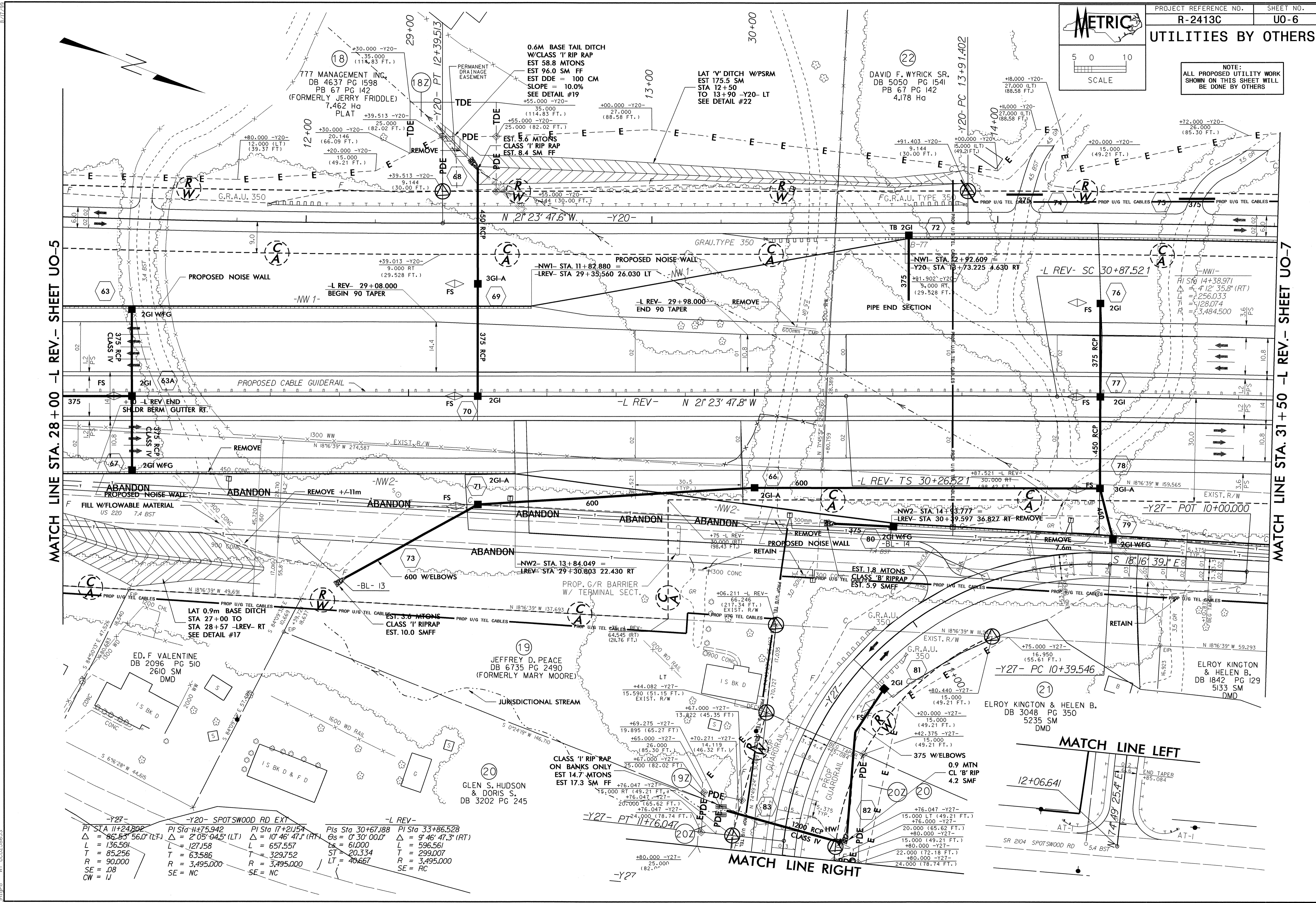
**METRIC**

PROJECT REFERENCE NO. R-2413C SHEET NO. UO-6

UTILITIES BY OTHERS

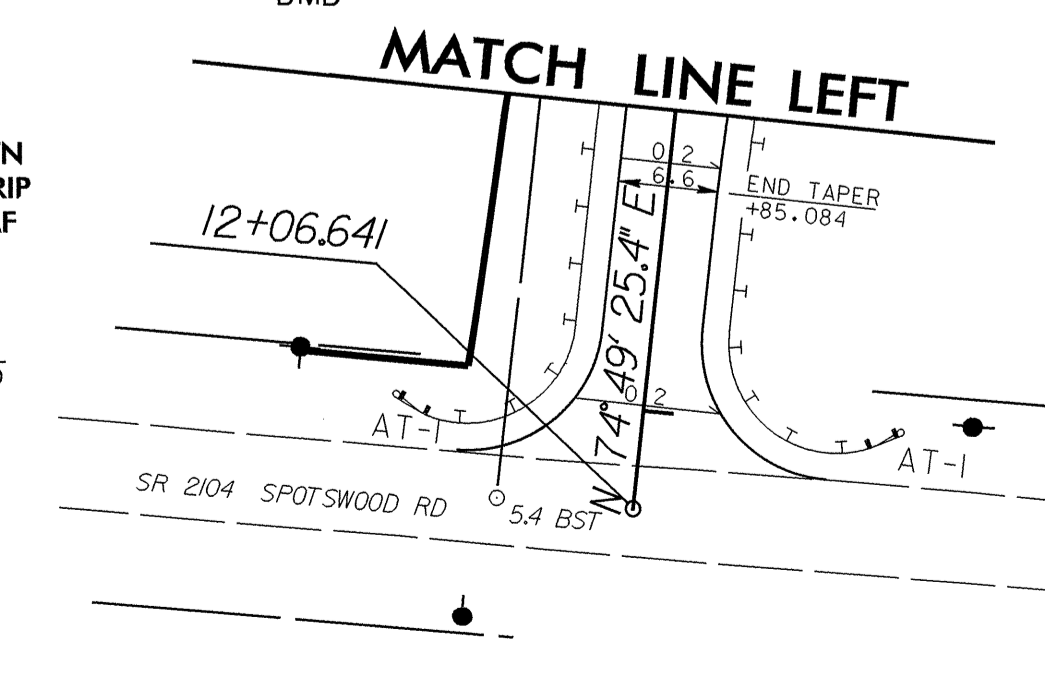
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

SCALE: 1" = 10'



MATCH LINE STA. 28+00 -L REV- SHEET UO-5

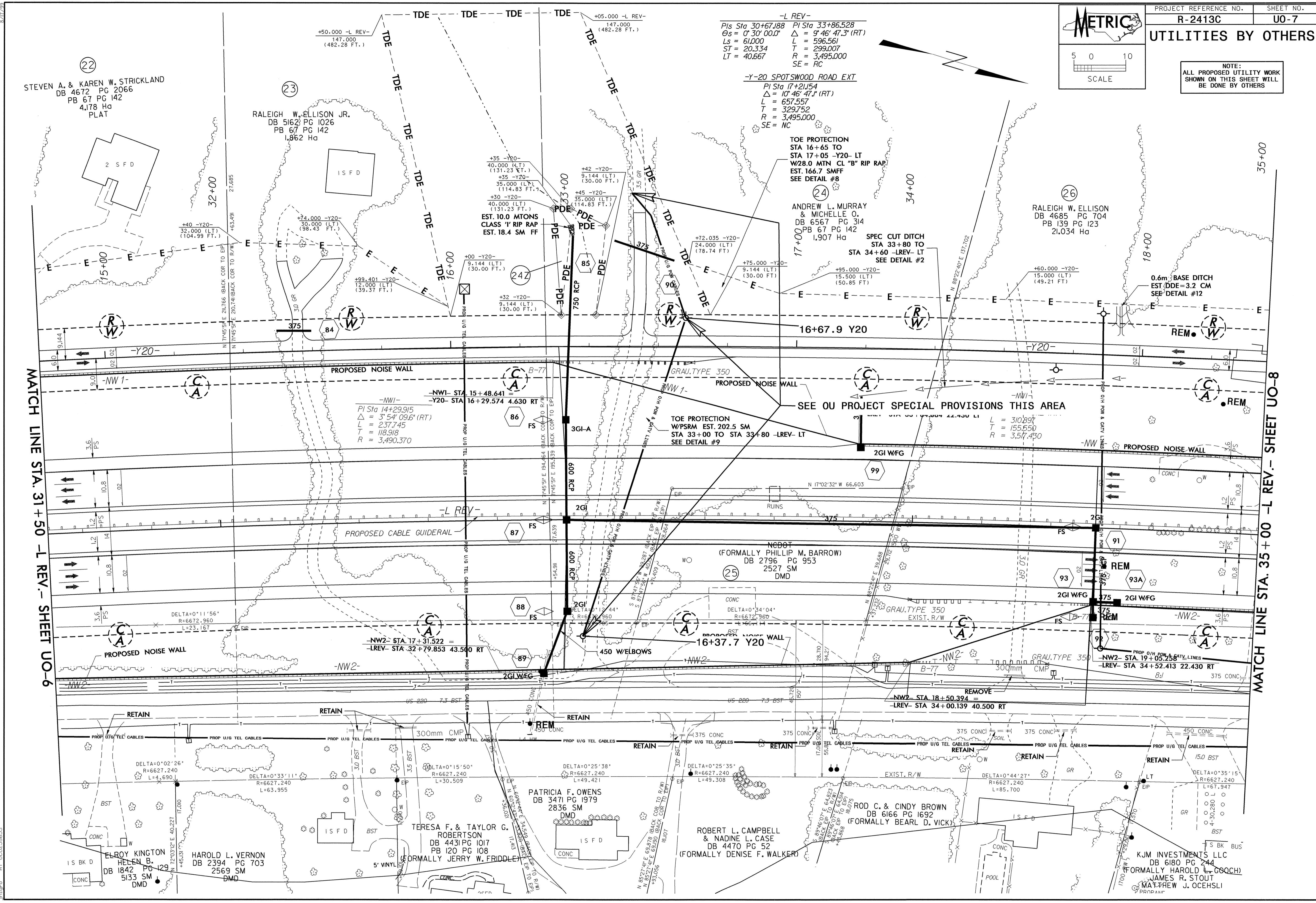
MATCH LINE STA. 31+50 -L REV- SHEET UO-7



MATCH LINE RIGHT

-Y27-		-Y20- SPOTSWOOD RD EXT		-L REV-	
PI Sta 11+24.802	PI Sta 11+75.942	PI Sta 17+21.54	PI Sta 30+67.88	PI Sta 33+86.528	PI Sta 33+86.528
$\Delta = 86^{\circ}53'56.0"$ (LT)	$\Delta = 2^{\circ}05'04.5"$ (LT)	$\Delta = 10^{\circ}46'47.1"$ (RT)	$\Delta = 0^{\circ}30'00.0"$	$\Delta = 9^{\circ}46'47.3"$ (RT)	$\Delta = 9^{\circ}46'47.3"$ (RT)
L = 136.501	L = 127.158	L = 657.557	Ls = 61.000	L = 596.561	L = 596.561
T = 85.256	T = 63.586	T = 329.752	ST = 20.334	T = 299.007	T = 299.007
R = 90.000	R = 3,495.000	R = 3,495.000	LT = 40.667	R = 3,495.000	R = 3,495.000
SE = 08	SE = NC	SE = NC	SE = RC		
CW = 11					

8/17/08  
 8/21/08  
 8/25/08  
 8/27/08  
 8/28/08  
 8/29/08  
 8/30/08  
 8/31/08  
 9/1/08  
 9/2/08  
 9/3/08  
 9/4/08  
 9/5/08  
 9/6/08  
 9/7/08  
 9/8/08  
 9/9/08  
 9/10/08  
 9/11/08  
 9/12/08  
 9/13/08  
 9/14/08  
 9/15/08  
 9/16/08  
 9/17/08  
 9/18/08  
 9/19/08  
 9/20/08  
 9/21/08  
 9/22/08  
 9/23/08  
 9/24/08  
 9/25/08  
 9/26/08  
 9/27/08  
 9/28/08  
 9/29/08  
 9/30/08  
 10/1/08  
 10/2/08  
 10/3/08  
 10/4/08  
 10/5/08  
 10/6/08  
 10/7/08  
 10/8/08  
 10/9/08  
 10/10/08  
 10/11/08  
 10/12/08  
 10/13/08  
 10/14/08  
 10/15/08  
 10/16/08  
 10/17/08  
 10/18/08  
 10/19/08  
 10/20/08  
 10/21/08  
 10/22/08  
 10/23/08  
 10/24/08  
 10/25/08  
 10/26/08  
 10/27/08  
 10/28/08  
 10/29/08  
 10/30/08  
 10/31/08  
 11/1/08  
 11/2/08  
 11/3/08  
 11/4/08  
 11/5/08  
 11/6/08  
 11/7/08  
 11/8/08  
 11/9/08  
 11/10/08  
 11/11/08  
 11/12/08  
 11/13/08  
 11/14/08  
 11/15/08  
 11/16/08  
 11/17/08  
 11/18/08  
 11/19/08  
 11/20/08  
 11/21/08  
 11/22/08  
 11/23/08  
 11/24/08  
 11/25/08  
 11/26/08  
 11/27/08  
 11/28/08  
 11/29/08  
 11/30/08  
 12/1/08  
 12/2/08  
 12/3/08  
 12/4/08  
 12/5/08  
 12/6/08  
 12/7/08  
 12/8/08  
 12/9/08  
 12/10/08  
 12/11/08  
 12/12/08  
 12/13/08  
 12/14/08  
 12/15/08  
 12/16/08  
 12/17/08  
 12/18/08  
 12/19/08  
 12/20/08  
 12/21/08  
 12/22/08  
 12/23/08  
 12/24/08  
 12/25/08  
 12/26/08  
 12/27/08  
 12/28/08  
 12/29/08  
 12/30/08  
 12/31/08



-L REV-  
 PIs Sta 30+67.188 PI Sta 33+86.528  
 $\Delta = 0^\circ 30' 00.0''$   $\Delta = 9^\circ 46' 47.3''$  (RT)  
 $L = 61.000$   $L = 596.561$   
 $ST = 20.334$   $T = 299.007$   
 $LT = 40.667$   $R = 3,495.000$   
 $SE = RC$

-Y-20 SPOTSWOOD ROAD EXT  
 PI Sta 17+21.54  
 $\Delta = 10^\circ 46' 47.3''$  (RT)  
 $L = 657.557$   
 $T = 329.752$   
 $R = 3,495.000$   
 $SE = NC$

TOE PROTECTION  
 STA 16+65 TO  
 STA 17+05 -Y20- LT  
 W28.0 MTN CL "B" RIP RAP  
 EST. 166.7 SM FF  
 SEE DETAIL #8

ANDREW L. MURRAY  
 & MICHELLE O.  
 DB 6567 PG 314  
 PB 67 PG 142  
 1.907 Ha

SPEC CUT DITCH  
 STA 33+80 TO  
 STA 34+60 -LREV- LT  
 SEE DETAIL #2

-NW1-  
 PI Sta 14+29.915  
 $\Delta = 3^\circ 54' 09.6''$  (RT)  
 $L = 237.745$   
 $T = 118.918$   
 $R = 3,490.370$

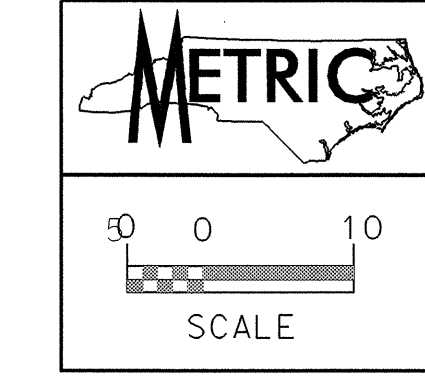
TOE PROTECTION  
 W/PSRM EST. 202.5 SM  
 STA 33+00 TO STA 33+80 -LREV- LT  
 SEE DETAIL #9

SEE OU PROJECT SPECIAL PROVISIONS THIS AREA  
 $L = 310.897$   
 $T = 155.550$   
 $R = 3,517.450$

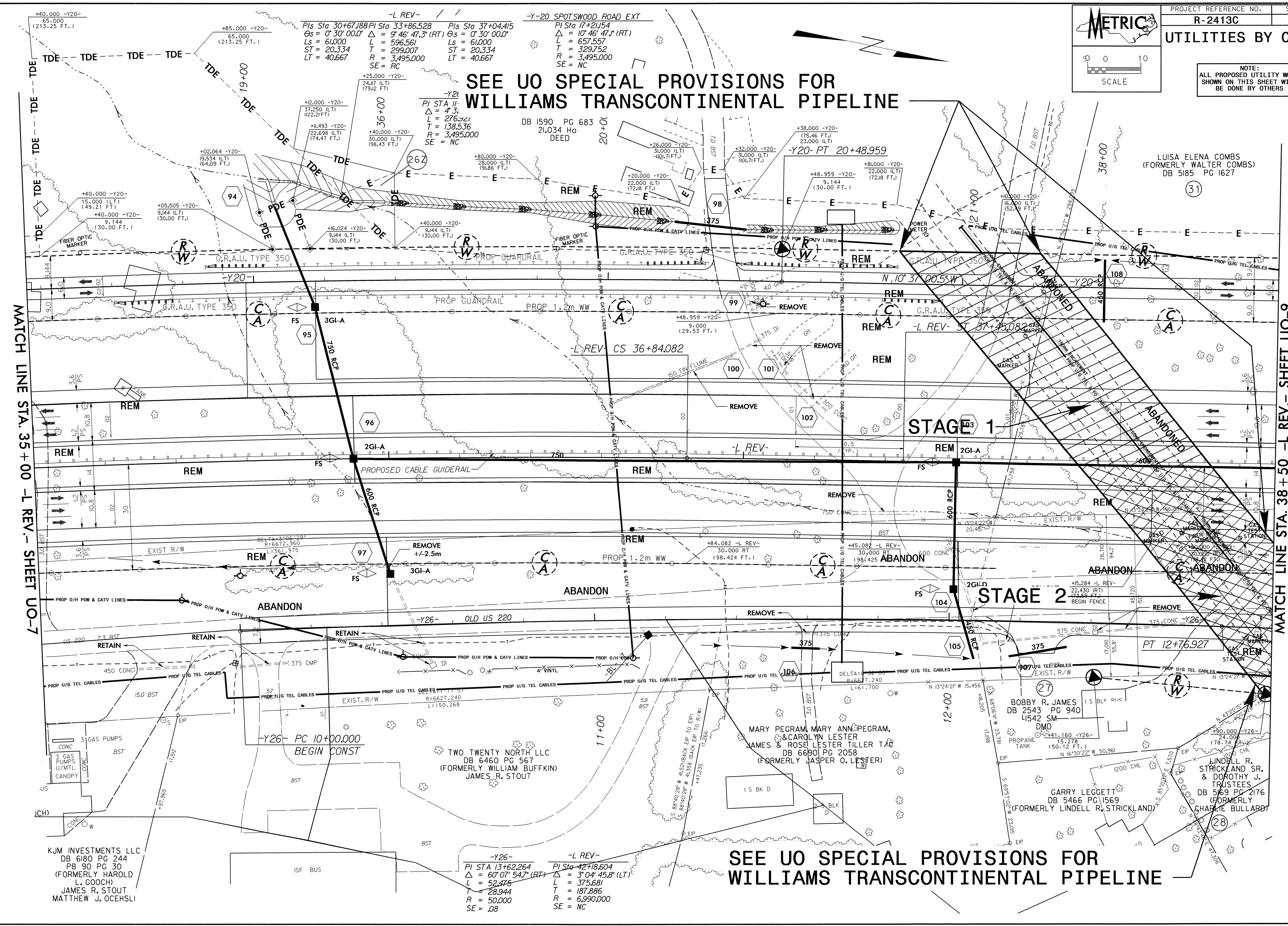
-NW2- STA. 17+31.522 =  
 -LREV- STA. 32+79.853 43.500 RT

REMOVE  
 -NW2- STA. 18+50.394 =  
 -LREV- STA. 34+00.139 40.500 RT

ELROY KINGTON DB 1842 PG 129  
 HARMON L. VERNON DB 2394 PG 703  
 TERESA F. & TAYLOR G. ROBERTSON DB 4431 PG 1017 PB 120 PG 108 (FORMALLY JERRY W. FRIDDLE)  
 PATRICIA F. OWENS DB 3471 PG 1979 2836 SM DMD  
 ROBERT L. CAMPBELL & NADINE L. CASE DB 4470 PG 52 (FORMALLY DENISE F. WALKER)  
 ROD C. & CINDY BROWN DB 6166 PG 1692 (FORMALLY BEARL D. VICKI)  
 KJM INVESTMENTS LLC DB 6180 PG 244 (FORMALLY HAROLD L. GOOCH)  
 JAMES R. STOUT  
 MATTHEW J. OCEHLI



**SEE UO SPECIAL PROVISIONS FOR WILLIAMS TRANSCONTINENTAL PIPELINE**



MATCH LINE STA. 35+00 -L REV.- SHEET UO-7

MATCH LINE STA. 38+50 -L REV.- SHEET UO-9

**STAGE 1**

**STAGE 2**

**-L REV-**  
 Pls Sta 30+67.188 PI Sta 33+86.528  
 $\Delta = 0^\circ 30' 00.0''$   $\Delta = 9^\circ 46' 47.3''$  (RT)  $\Delta = 0^\circ 30' 00.0''$   
 $L = 61.000$   $L = 596.561$   $L = 61.000$   
 $ST = 20.334$   $T = 299.007$   $ST = 20.334$   
 $LT = 40.667$   $LT = 40.667$   $LT = 40.667$   
 $SE = RC$

**-Y-20 SPOTSWOOD ROAD EXT**  
 PI Sta 17+211.54  
 $\Delta = 10^\circ 46' 47.3''$  (RT)  
 $L = 657.557$   
 $T = 329.752$   
 $R = 3,495.000$   
 $SE = NC$

DB 1590 PG 683  
 21,034 Ha  
 DEED

LUISA ELENA COMBS  
 (FORMERLY WALTER COMBS)  
 DB 5185 PG 1627

MARY PEGRAM, MARY ANNE PEGRAM,  
 & CAROLYN LESTER  
 JAMES & ROSE LESTER TRUST  
 DB 6690 PG 2058  
 (FORMERLY JASPER O. LESTER)

TWO TWENTY NORTH LLC  
 DB 6460 PG 567  
 (FORMERLY WILLIAM BUFFKIN)  
 JAMES R. STOUT

BOBBY R. JAMES  
 DB 2543 PG 940  
 L1542 SM  
 DMD

GARRY LEGGETT  
 DB 5466 PG 1569  
 (FORMERLY LINDELL R. STRICKLAND)

LINDELL R. STRICKLAND SR.  
 & DOROTHY J. TRUSTEES  
 DB 5169 PG 2176  
 (FORMERLY CHARLIE BULLARD)

KJM INVESTMENTS LLC  
 DB 6180 PG 244  
 PB 90 PG 30  
 (FORMERLY HAROLD L. GOOCH)  
 JAMES R. STOUT  
 MATTHEW J. OCEHSLI

**-Y-26-**  
 PI STA 13+62.264  
 $\Delta = 60^\circ 07' 54.7''$  (BT)  
 $L = 52.475$   
 $T = 28.944$   
 $R = 50.000$   
 $SE = .08$

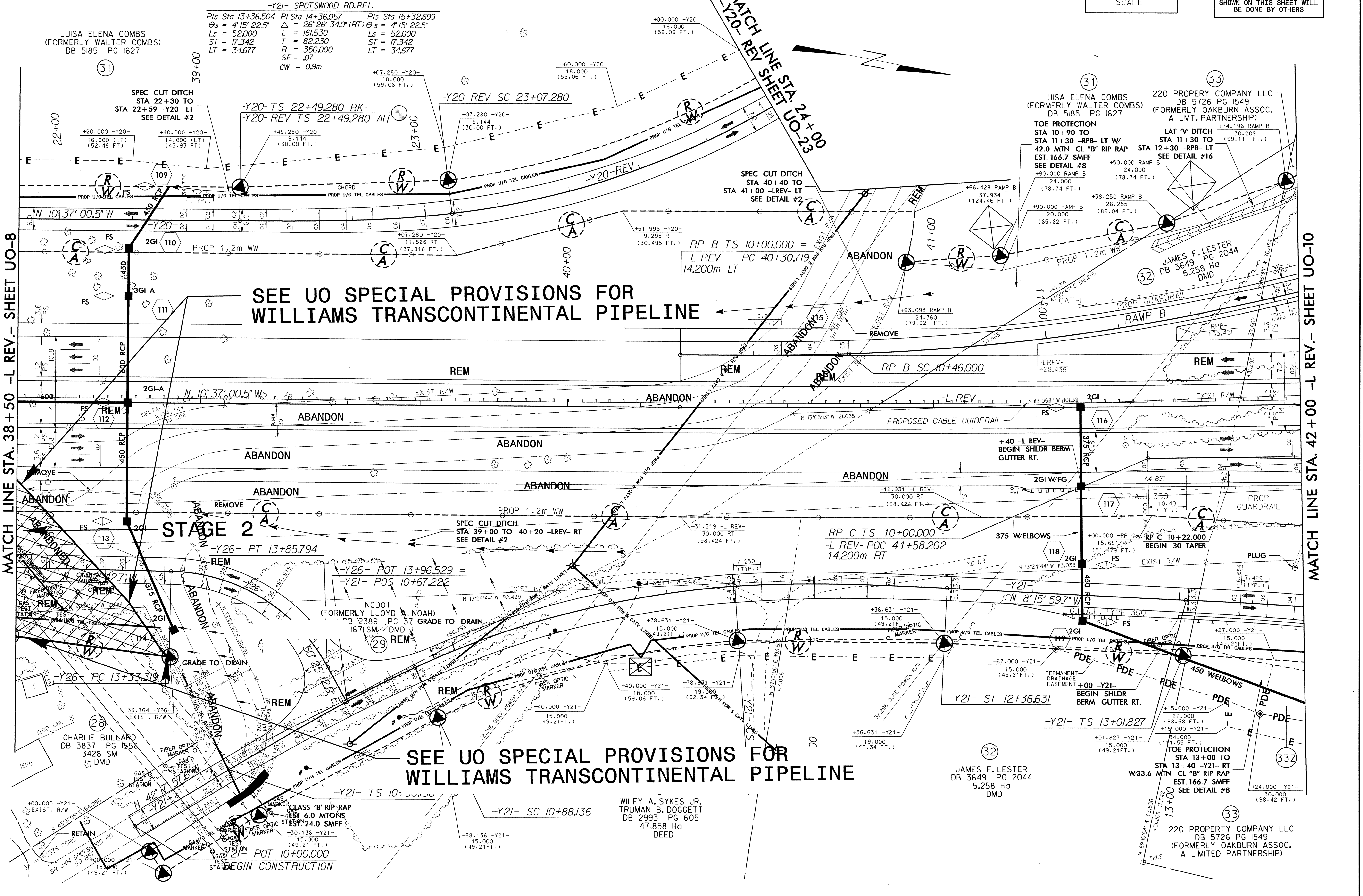
**-L REV-**  
 PI Sta 42+18.604  
 $\Delta = 3^\circ 04' 45.8''$  (LT)  
 $L = 375.681$   
 $T = 187.886$   
 $R = 6,990.000$   
 $SE = NC$

**SEE UO SPECIAL PROVISIONS FOR WILLIAMS TRANSCONTINENTAL PIPELINE**

REVISION 1: REVISED STAGE 1 AND STAGE 2 BOUNDARY  
 18-JAN-2012 10:08  
 18-JAN-2012 10:08  
 18-JAN-2012 10:08

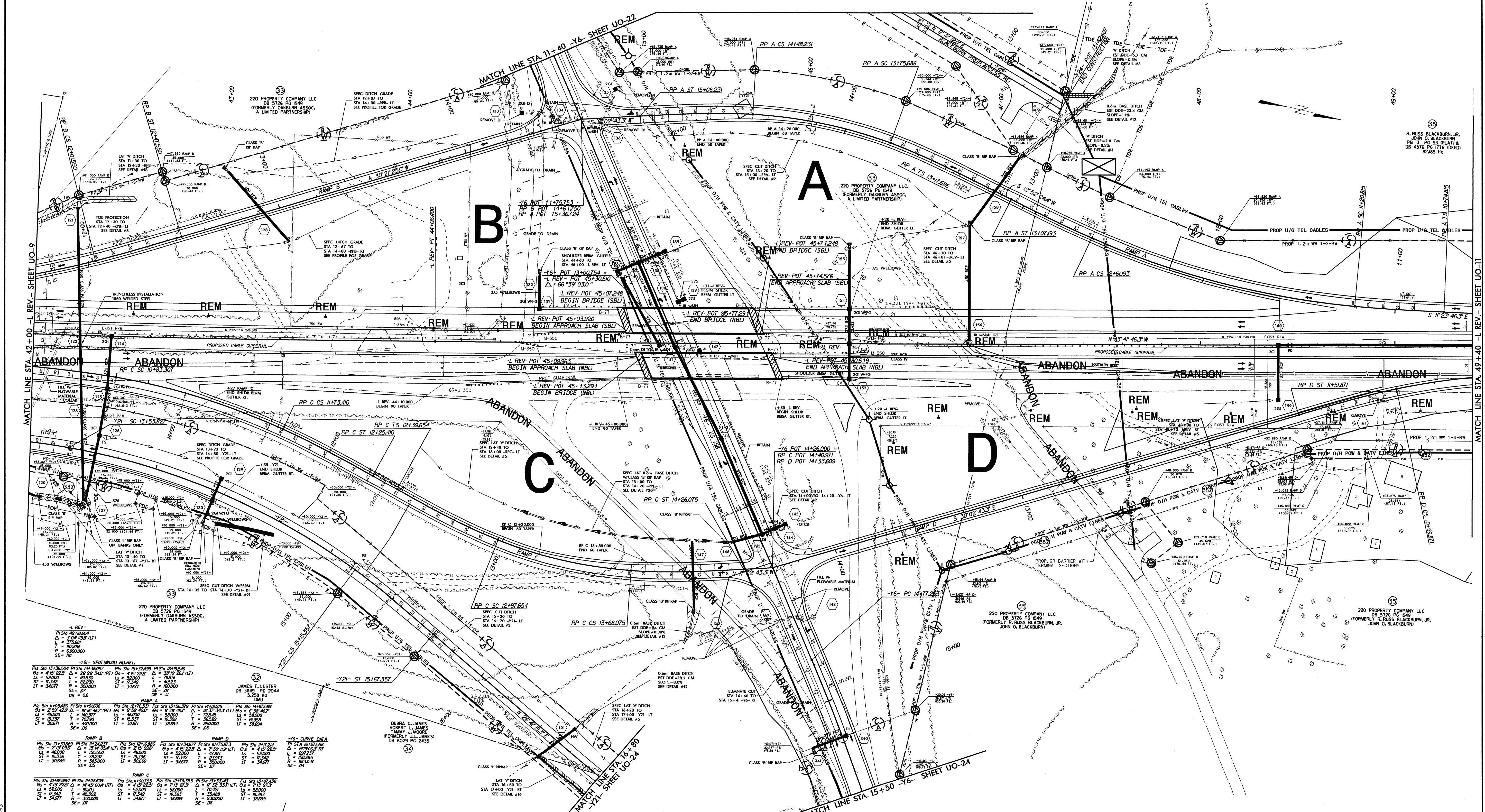


RAMP B (US 158)		-Y21- SPOTSWOOD RD.REL.		-Y20 REV SPOTSWOOD ROAD EXT	
Sta 10+30.669	PI Sta 11+24.237	Pls Sta 10+68.830	PI Sta 11+33.884	Pls Sta 22+87.978	PI Sta 24+12.310
$\Delta = 2' 15" 09.6'$	$\Delta = 15' 14" 05.4'$ (LT)	$\Delta = 6' 38" 46.7'$	$\Delta = 20' 44" 24.4'$ (RT)	$\Delta = 7' 13" 27.3'$	$\Delta = 49' 05" 16.8'$ (LT)
$L = 46.000$	$L_s = 155.550$	$L_s = 58.000$	$L_s = 90.496$	$L_s = 58.000$	$L_s = 197.052$
$T = 15.336$	$T = 78.237$	$T = 19.358$	$T = 45.749$	$T = 19.363$	$T = 105.030$
$R = 30.669$	$R = 585.000$	$R = 38.694$	$R = 250.000$	$R = 38.699$	$R = 230.000$
$SE = .05$	$LT = 30.669$	$LT = 38.694$	$LT = 38.694$	$LT = 38.699$	$LT = 16.861$
		$CW = 1.1m$		$CW = 1.1m$	



REVISION 1/18/2012: REVISED STAGE 1 AND STAGE 2 BOUNDARY  
 18-JAN-2012 10:23 AM R:\Projects\2413C\UO-9.dwg  
 18-JAN-2012 10:23 AM R:\Projects\2413C\UO-9.dwg

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



**-L- REV-**

PI STA 4218204	Δ = 3.0	Δ = 28.98	Δ = 30.97
CI = 37.581	LI = 50.000	LI = 50.000	LI = 50.000
SI = 6.980000	SI = 6.980000	SI = 6.980000	SI = 6.980000
SE = NC	SE = NC	SE = NC	SE = NC

**-Y2I- SPOTWOOD ROULET**

PI STA 13136204	PI STA 14136252	PI STA 15136299	PI STA 16136346
Δ = 41.9	Δ = 26.98	Δ = 41.9	Δ = 38.97
LI = 50.000	LI = 50.000	LI = 50.000	LI = 50.000
SI = 7.342	SI = 7.342	SI = 7.342	SI = 7.342
LI = 34677	LI = 34677	LI = 34677	LI = 34677
SE = D	SE = D	SE = D	SE = D

**RAMP A**

PI STA 11755656	PI STA 11756136	PI STA 11756616	PI STA 11757096	PI STA 11757576	PI STA 11758056
Δ = 2.9	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8
LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800
SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337
LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671
SE = D	SE = D	SE = D	SE = D	SE = D	SE = D

**RAMP B**

PI STA 11758656	PI STA 11759136	PI STA 11759616	PI STA 11760096	PI STA 11760576	PI STA 11761056
Δ = 2.9	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8
LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800
SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337
LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671
SE = D	SE = D	SE = D	SE = D	SE = D	SE = D

**RAMP C**

PI STA 11762056	PI STA 11762536	PI STA 11763016	PI STA 11763496	PI STA 11763976	PI STA 11764456
Δ = 2.9	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8
LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800
SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337
LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671
SE = D	SE = D	SE = D	SE = D	SE = D	SE = D

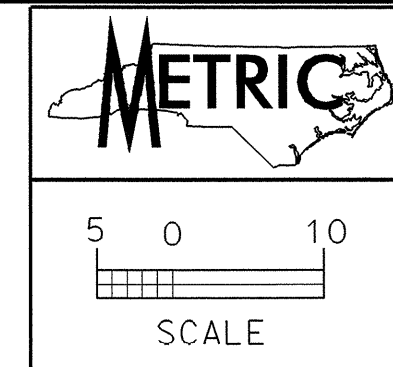
**RAMP D**

PI STA 11765056	PI STA 11765536	PI STA 11766016	PI STA 11766496	PI STA 11766976	PI STA 11767456
Δ = 2.9	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8
LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800	LI = 46.800
SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337	SI = 6.337
LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671	LI = 30671
SE = D	SE = D	SE = D	SE = D	SE = D	SE = D

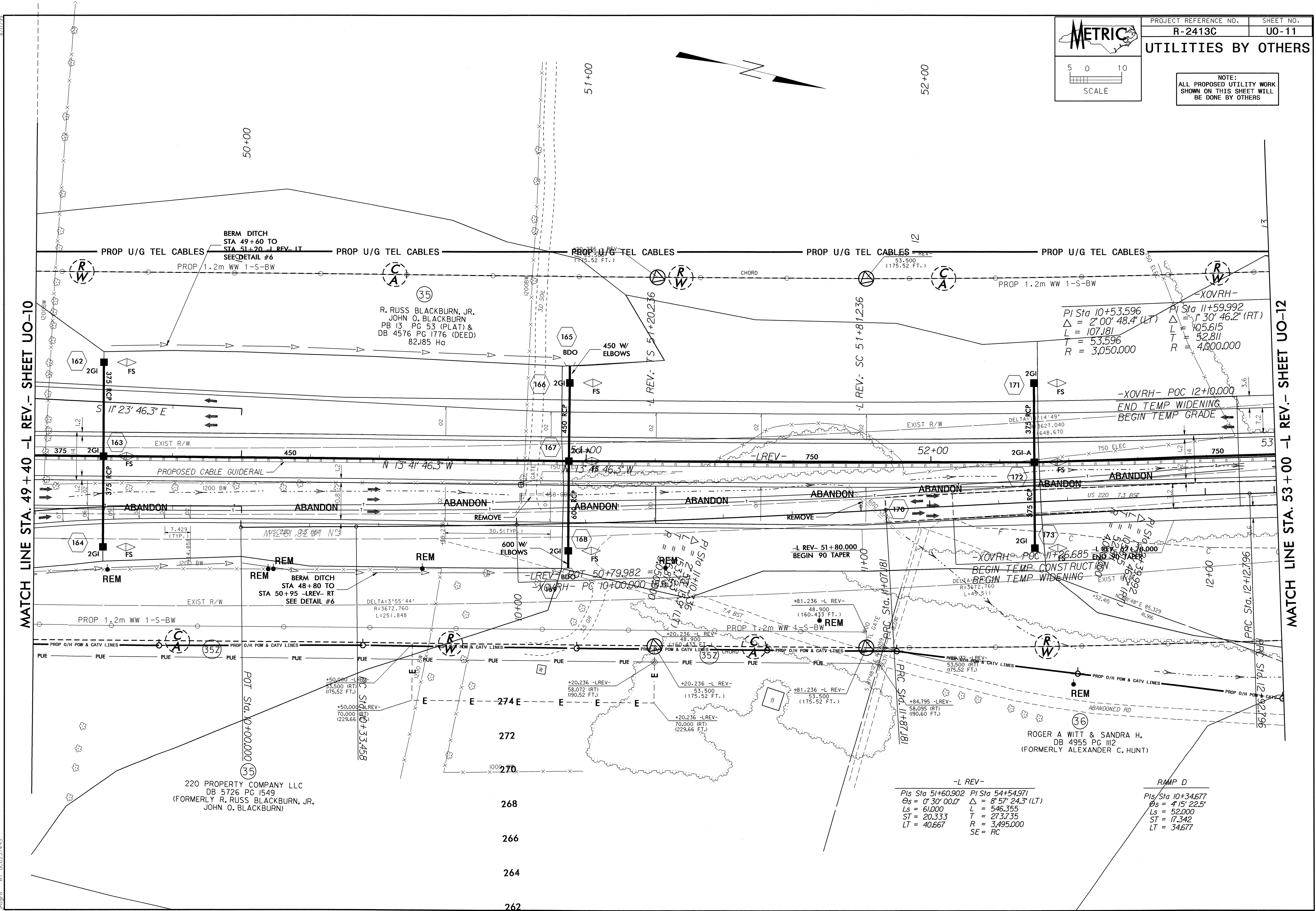
**-Y6- CURVE DATA**

PI STA 16192204	PI STA 16192684	PI STA 16193164	PI STA 16193644	PI STA 16194124
Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8	Δ = 46.8
LI = 50.000	LI = 50.000	LI = 50.000	LI = 50.000	LI = 50.000
SI = 7.342	SI = 7.342	SI = 7.342	SI = 7.342	SI = 7.342
LI = 34677	LI = 34677	LI = 34677	LI = 34677	LI = 34677
SE = D	SE = D	SE = D	SE = D	SE = D

8.17.09  
 R:\JUN-2011\2413C\UT-12-UO10.dwg  
 2011/06/24 10:30:00 AM  
 J:\Users\james.lesler\Documents\2413C\UT-12-UO10.dwg



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



MATCH LINE STA. 49+40 -L REV.- SHEET UO-10

MATCH LINE STA. 53+00 -L REV.- SHEET UO-12

R. RUSS BLACKBURN, JR.  
JOHN O. BLACKBURN  
PB 13 PG 53 (PLAT) &  
DB 4576 PG 1776 (DEED)  
82,185 Hq

PI Sta 10+53.596  
 $\Delta = 2^{\circ}00'48.4''$  (LT)  
L = 107.181  
T = 53.596  
R = 3,050.000

PI Sta 11+59.992  
 $\Delta = 1^{\circ}30'46.2''$  (RT)  
L = 405.615  
T = 52.811  
R = 4,000.000

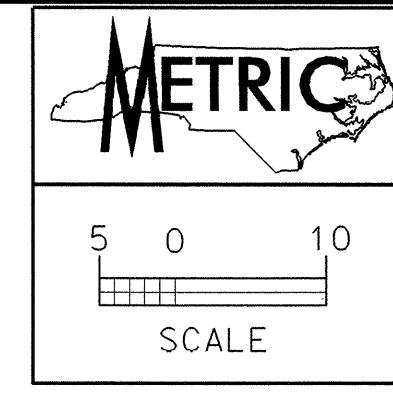
220 PROPERTY COMPANY LLC  
DB 5726 PG 1549  
(FORMERLY R. RUSS BLACKBURN, JR.  
JOHN O. BLACKBURN)

ROGER A WITT & SANDRA H.  
DB 4955 PG III2  
(FORMERLY ALEXANDER C. HUNT)

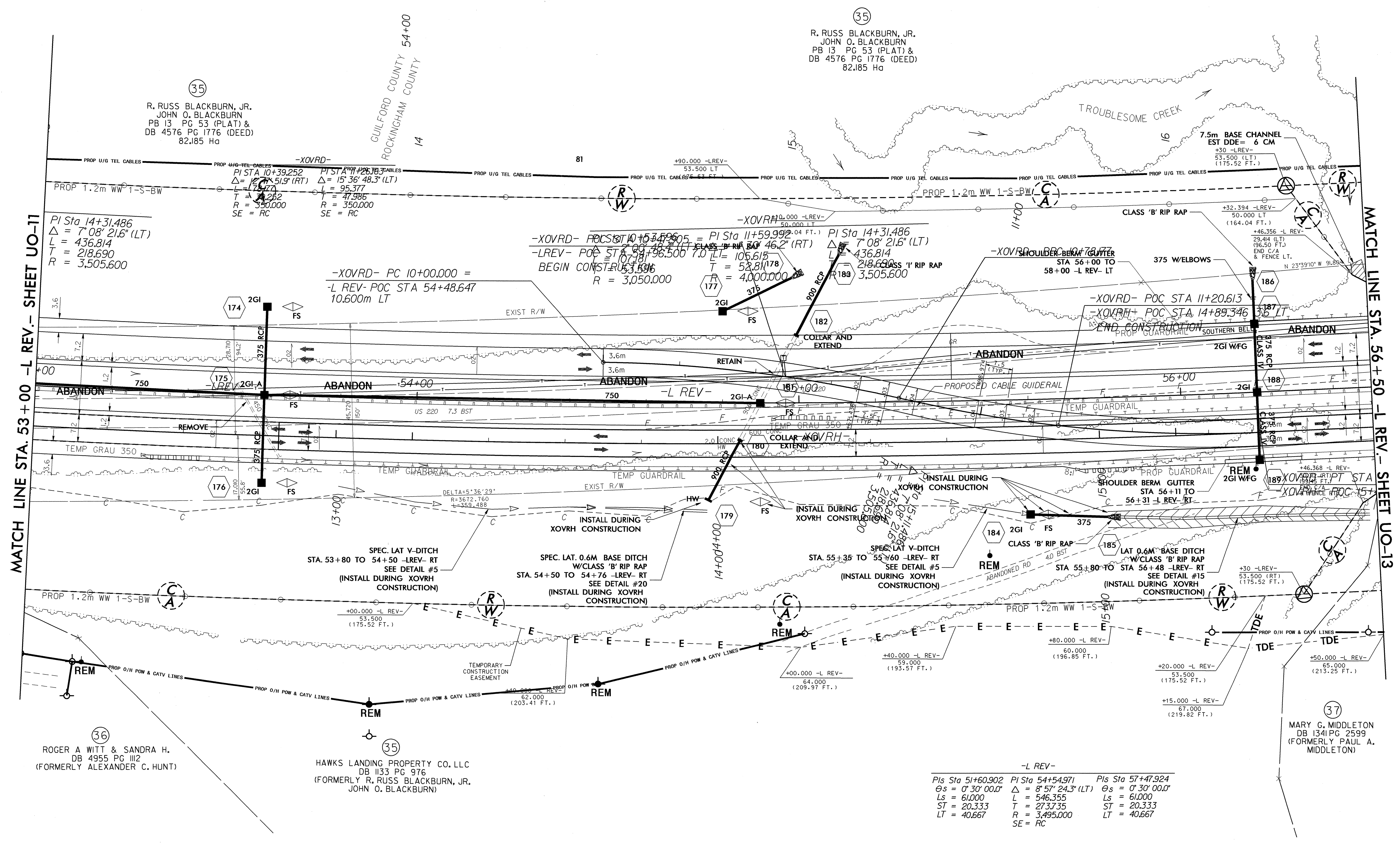
-L REV-  
PI Sta 51+60.902 PI Sta 54+54.971  
 $\Delta = 8^{\circ}57'24.3''$  (ST)  
Ls = 61,000 L = 546,355  
ST = 20,333 T = 273,735  
LT = 40,667 R = 3,495,000  
SE = RC

RAMP D  
PI Sta 10+34.677  
 $\Delta = 4^{\circ}15'22.5''$   
Ls = 52,000  
ST = 17,342  
LT = 34,677

20-011-2011-066  
R-2413C-11-11-13-1011-path.dgn  
11/13/13 11:23:48 AM



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



8.17.2018  
 J:\Projects\2018\18-001\18-001-14\18-001-14-0012.dwg  
 R:\Users\jw\Documents\18-001\18-001-14\18-001-14-0012.dwg  
 18-001-14-0012.dwg

35  
 R. RUSS BLACKBURN, JR.  
 JOHN O. BLACKBURN  
 PB 13 PG 53 (PLAT) &  
 DB 4576 PG 1776 (DEED)  
 82.185 Hq

PI Sta 14+31.486  
 $\Delta = 7' 08'' 21.6''$  (LT)  
 $L = 436.814$   
 $T = 218.690$   
 $R = 3,505.600$

PI STA 10+39.252  
 $\Delta = 15' 36'' 48.3''$  (LT)  
 $L = 95.377$   
 $T = 47.986$   
 $R = 350.000$   
 $SE = RC$

-XOVRD- PC 10+00.000 =  
 -L REV- POC STA 54+48.647  
 10.600m LT

PI STA 11+26.183  
 $\Delta = 15' 36'' 48.3''$  (LT)  
 $L = 95.377$   
 $T = 47.986$   
 $R = 350.000$   
 $SE = RC$

35  
 R. RUSS BLACKBURN, JR.  
 JOHN O. BLACKBURN  
 PB 13 PG 53 (PLAT) &  
 DB 4576 PG 1776 (DEED)  
 82.185 Hq

36  
 ROGER A WITT & SANDRA H.  
 DB 4955 PG III2  
 (FORMERLY ALEXANDER C. HUNT)

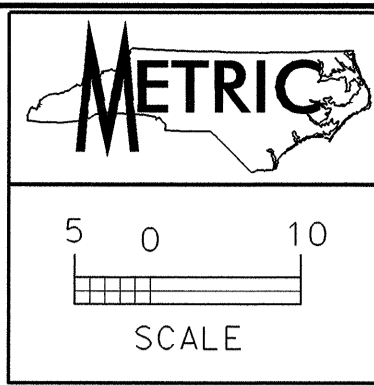
35  
 HAWKS LANDING PROPERTY CO. LLC  
 DB I133 PG 976  
 (FORMERLY R. RUSS BLACKBURN, JR.  
 JOHN O. BLACKBURN)

37  
 MARY G. MIDDLETON  
 DB 1341 PG 2599  
 (FORMERLY PAUL A.  
 MIDDLETON)

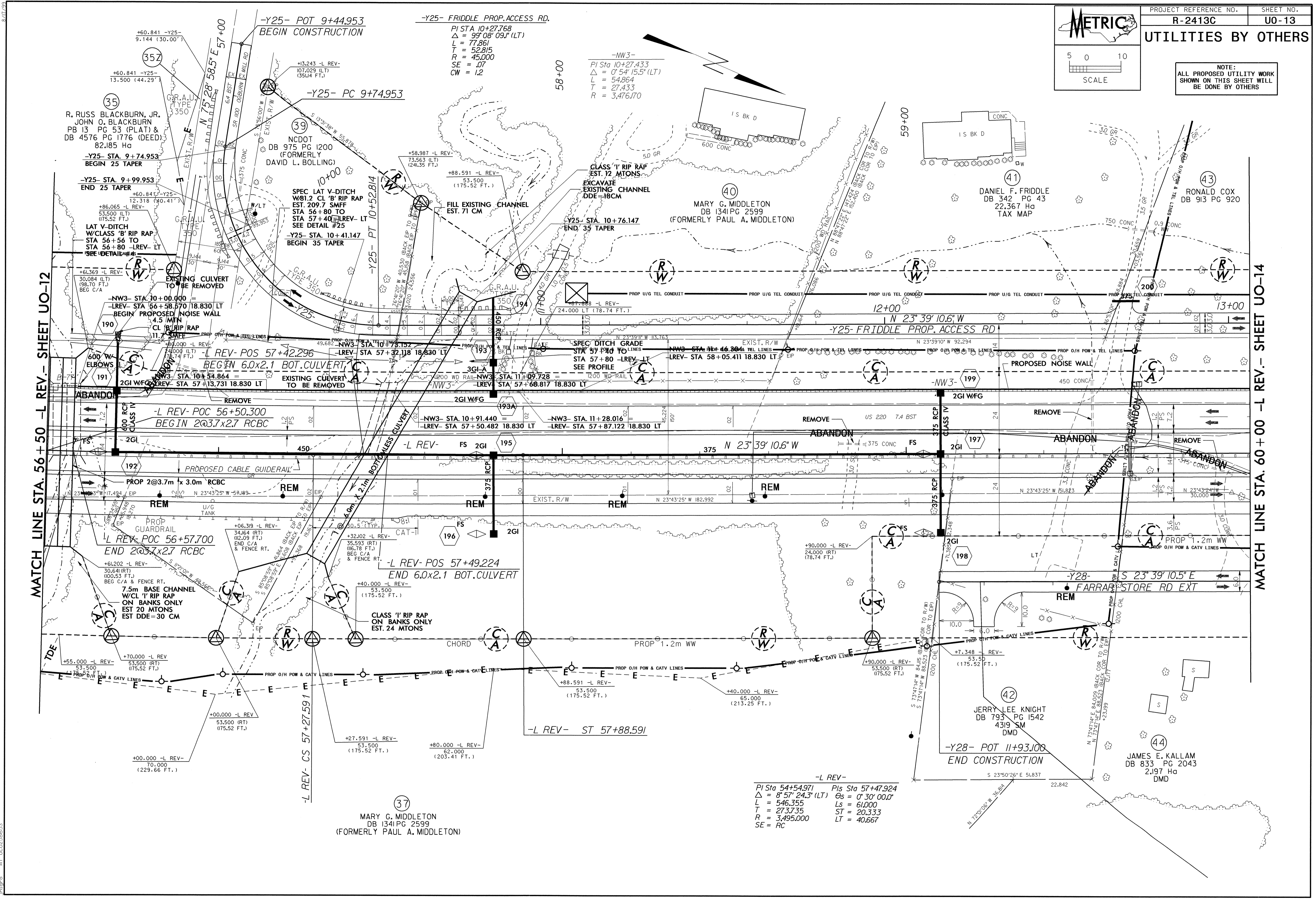
-L REV-  
 Pls Sta 51+60.902  
 $\Delta_s = 0' 30'' 00.0''$   
 $L_s = 61.000$   
 $ST = 20.333$   
 $LT = 40.667$

PI Sta 54+54.971  
 $\Delta = 8' 57'' 24.3''$  (LT)  
 $L = 546.355$   
 $T = 273.735$   
 $R = 3,495.000$   
 $SE = RC$

Pls Sta 57+47.924  
 $\Delta_s = 0' 30'' 00.0''$   
 $L_s = 61.000$   
 $ST = 20.333$   
 $LT = 40.667$



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



MATCH LINE STA. 56+50 -L REV.- SHEET UO-12

MATCH LINE STA. 60+00 -L REV.- SHEET UO-14

-Y25- FRIDDLE PROP. ACCESS RD.  
 PI STA 10+27.768  
 $\Delta = 99^{\circ} 08' 09''$  (LT)  
 L = 77.861  
 T = 52.815  
 R = 45.000  
 SE = .07  
 CW = 1.2

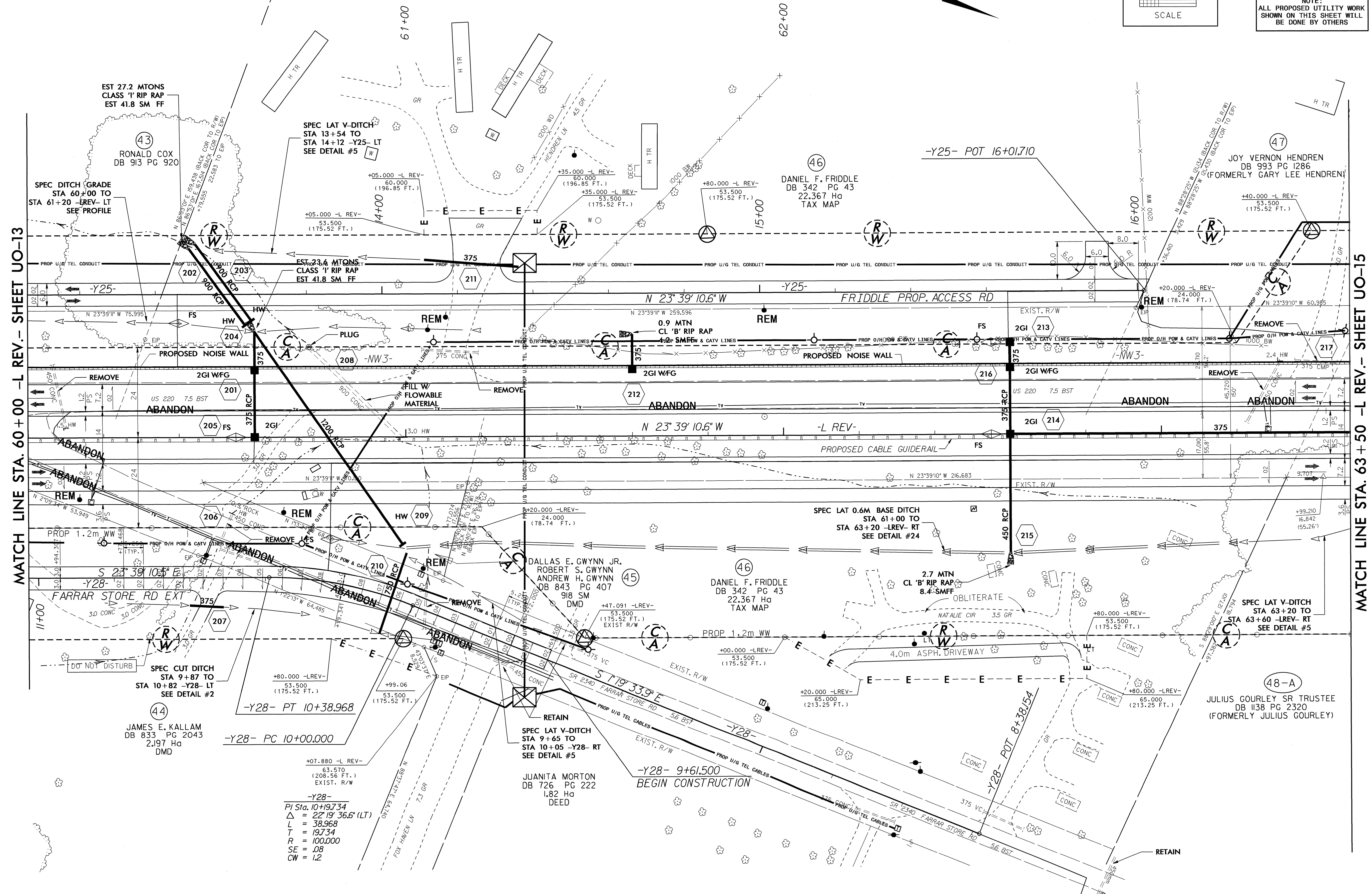
-NW3-  
 PI Sta 10+27.433  
 $\Delta = 0^{\circ} 54' 15.5''$  (LT)  
 L = 54.864  
 T = 27.433  
 R = 3,476.170

-L REV-  
 PI Sta 54+54.971  
 $\Delta = 8^{\circ} 57' 24.3''$  (LT)  
 L = 546.355  
 T = 273.735  
 R = 3,495.000  
 SE = RC  
 Pis Sta 57+47.924  
 $\Delta = 0^{\circ} 30' 00.0''$   
 Ls = 61.000  
 ST = 20.333  
 LT = 40.667

27-01-2010 07:39 14538 MR2413C-UO-15.UO13.pstvdgn

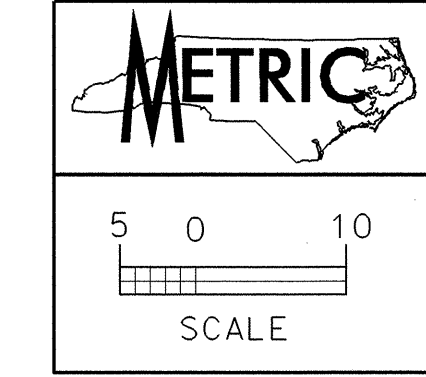
MATCH LINE STA. 60+00 - L REV. - SHEET UO-13

MATCH LINE STA. 63+50 - L REV. - SHEET UO-15



$PI\ Sta.\ 10+19.734$   
 $\Delta = 22^\circ 19' 36.6" (LT)$   
 $L = 38.968$   
 $T = 19.734$   
 $R = 100.000$   
 $SE = .08$   
 $CW = 1.2$

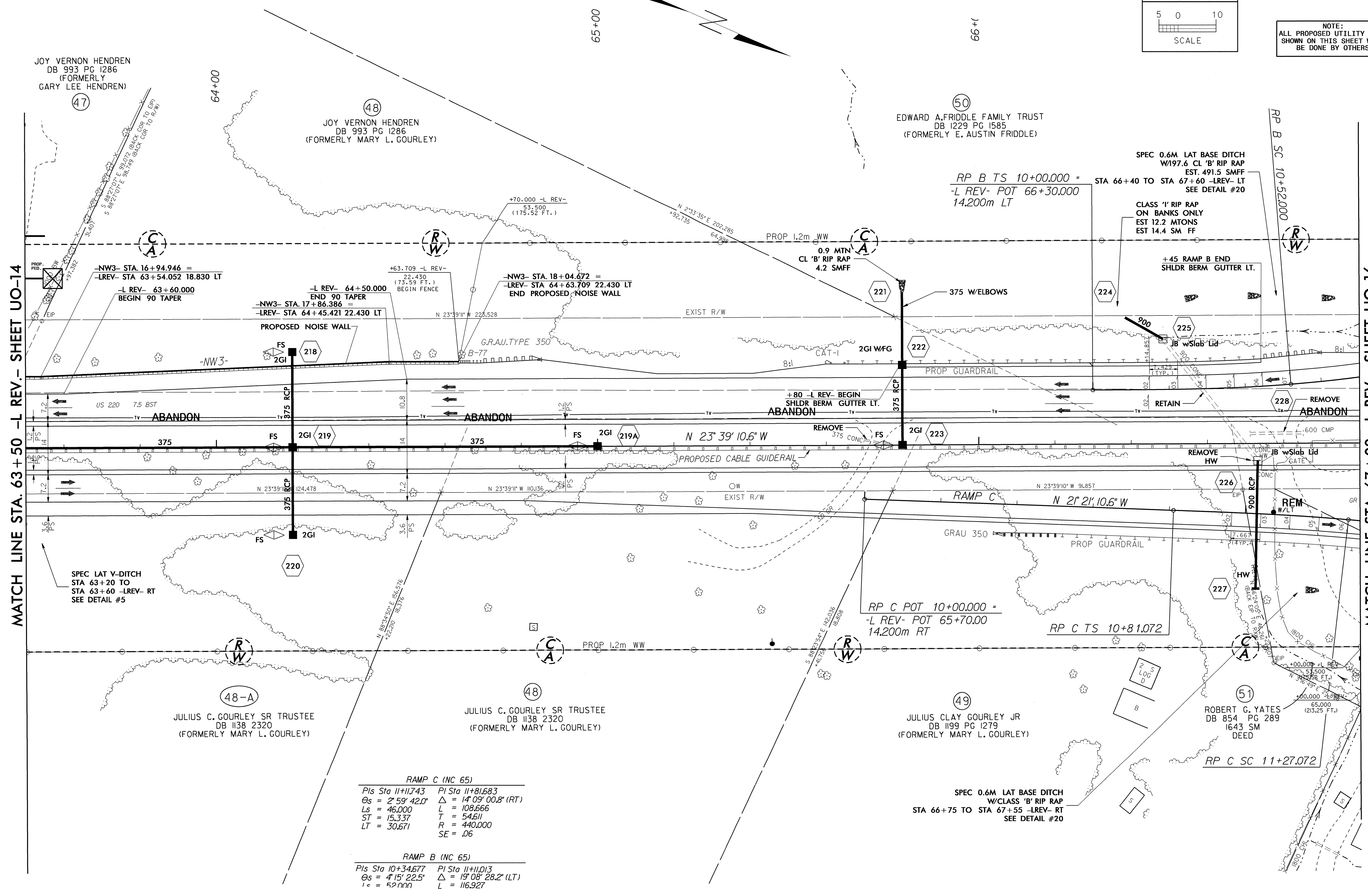
28-001-001.dwg  
 R:\Utilities\2413C\_UO-14.dwg  
 16-01-04 psh.dgn  
 16-01-04 10:58:53 AM



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

MATCH LINE STA. 63+50 -L REV.- SHEET U0-14

MATCH LINE STA. 67+00 -L REV.- SHEET U0-16

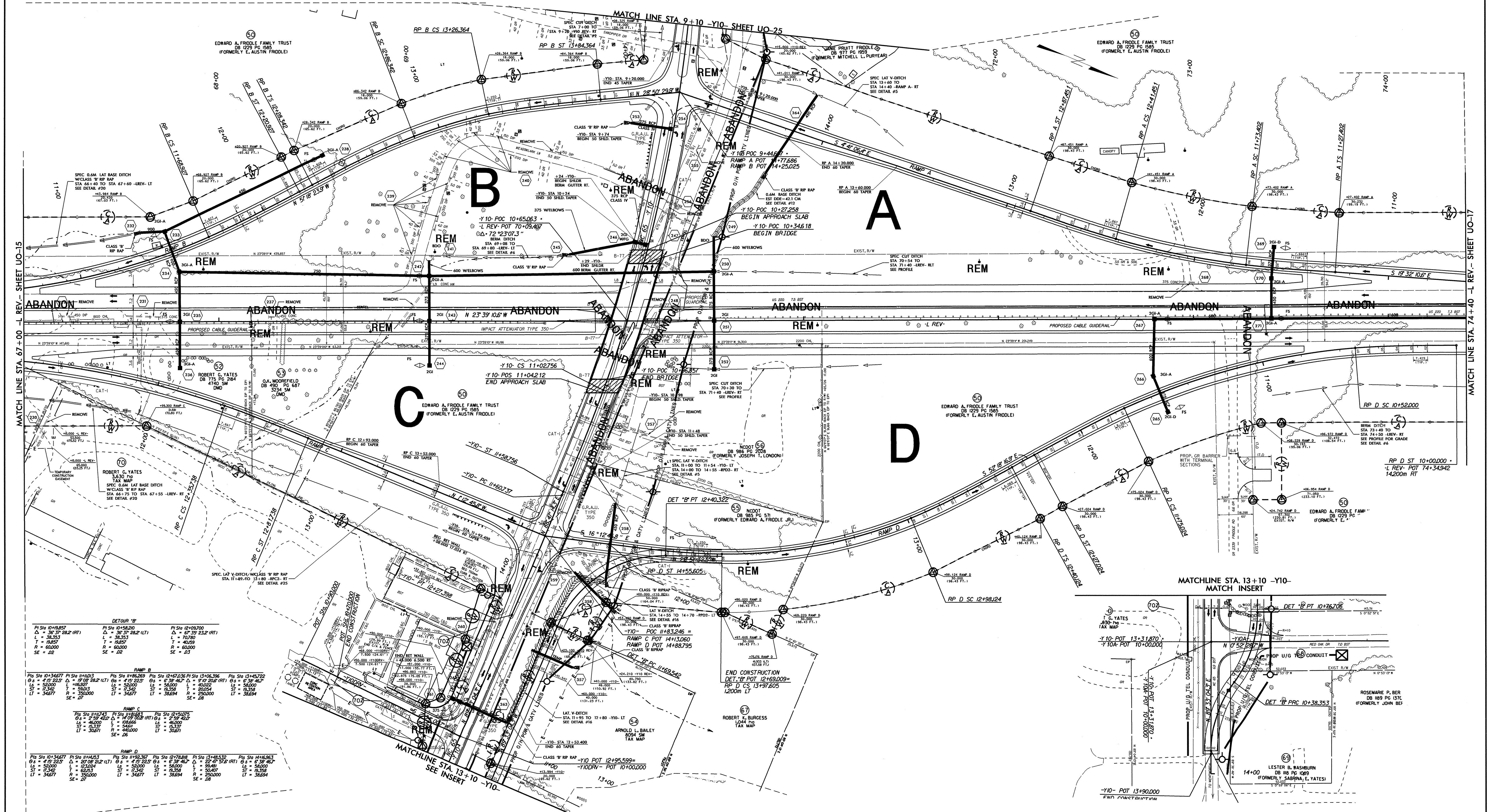


RAMP C (INC 65)	
PI Sta 11+11.743	PI Sta 11+81.683
θs = 2° 59' 42.0"	Δ = 14° 09' 00.8" (RT)
Ls = 46.000	L = 108.666
ST = 15.337	T = 54.611
LT = 30.671	R = 440.000
	SE = .06

RAMP B (INC 65)	
PI Sta 10+34.677	PI Sta 11+10.013
θs = 4° 15' 22.5"	Δ = 19° 08' 28.2" (LT)
lc = 52.000	L = 116.927

8/17/09  
 27-OCT-2010 09:53  
 I:\Projects\2413C\U0-15\U015.plt\dgn



DETAIL 'B'

Pi Sta 10+58.57	Pi Sta 10+58.20	Pi Sta 10+57.00
$\Delta = 39' 57.232' (RT)$	$\Delta = 39' 57.232' (LT)$	$\Delta = 67' 39' 23.2' (RT)$
L = 38.353	L = 38.353	L = 70.80
T = 36.057	T = 36.057	T = 40.058
R = 600.000	R = 600.000	R = 600.000
SE = 02	SE = 02	SE = 03

RAMP B

Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677
$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$
LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000
ST = 34.677	ST = 34.677	ST = 34.677	ST = 34.677	ST = 34.677	ST = 34.677
LT = 34.677	LT = 34.677	LT = 34.677	LT = 34.677	LT = 34.677	LT = 34.677
SE = 20	SE = 20	SE = 20	SE = 20	SE = 20	SE = 20

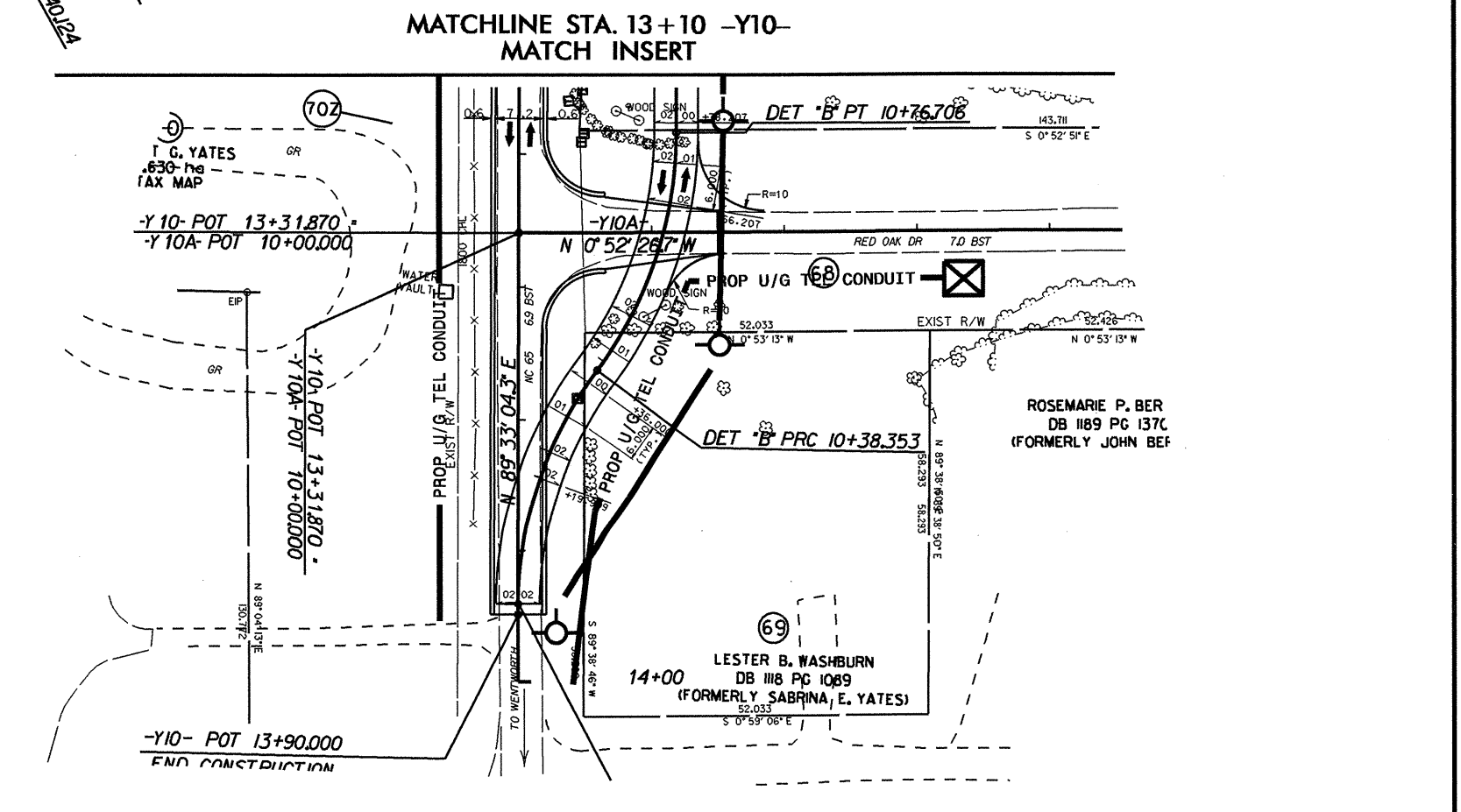
RAMP C

Pi Sta 11+27.28	Pi Sta 11+27.28	Pi Sta 11+27.28	Pi Sta 11+27.28	Pi Sta 11+27.28
$\Delta = 2' 19' 52.9'$	$\Delta = 2' 19' 52.9'$	$\Delta = 2' 19' 52.9'$	$\Delta = 2' 19' 52.9'$	$\Delta = 2' 19' 52.9'$
LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000
ST = 11.273	ST = 11.273	ST = 11.273	ST = 11.273	ST = 11.273
LT = 11.273	LT = 11.273	LT = 11.273	LT = 11.273	LT = 11.273
SE = 08	SE = 08	SE = 08	SE = 08	SE = 08

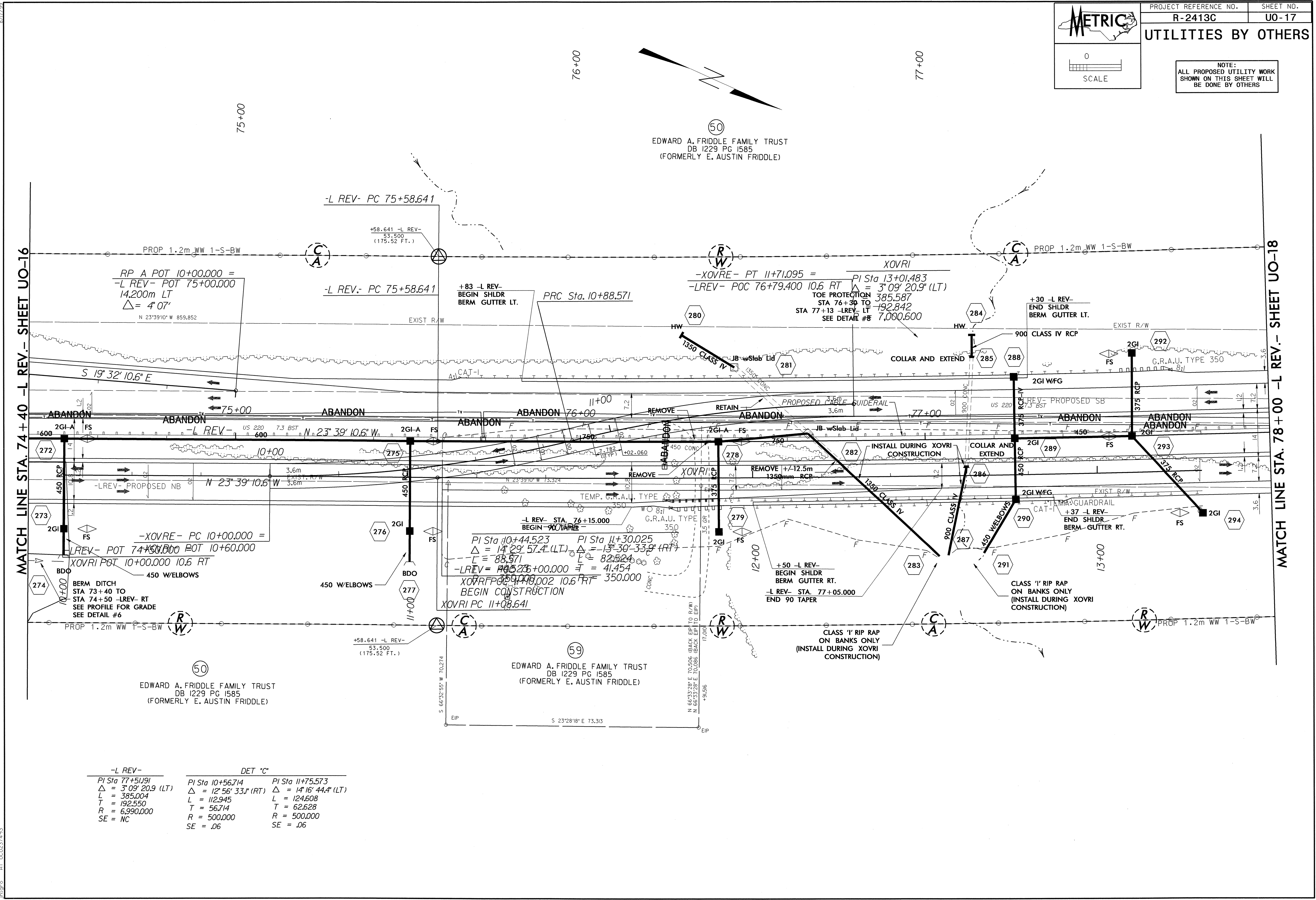
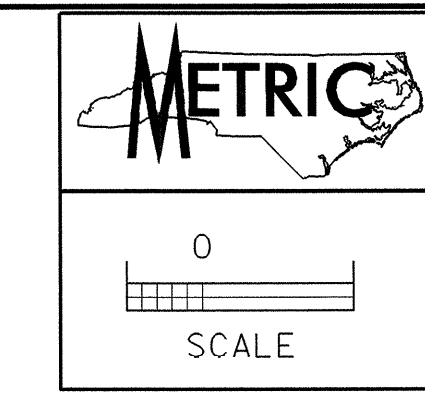
RAMP D

Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677	Pi Sta 10+34.677
$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$	$\Delta = 4' 10' 22.5'$
LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000	LS = 52.000
ST = 34.677	ST = 34.677	ST = 34.677	ST = 34.677	ST = 34.677	ST = 34.677
LT = 34.677	LT = 34.677	LT = 34.677	LT = 34.677	LT = 34.677	LT = 34.677
SE = 20	SE = 20	SE = 20	SE = 20	SE = 20	SE = 20



8/17/08  
 R:\UN-2011\438  
 8/17/08 11:43 AM  
 R:\UN-2011\438  
 8/17/08 11:43 AM  
 R:\UN-2011\438  
 8/17/08 11:43 AM  
 R:\UN-2011\438  
 8/17/08 11:43 AM  
 R:\UN-2011\438  
 8/17/08 11:43 AM



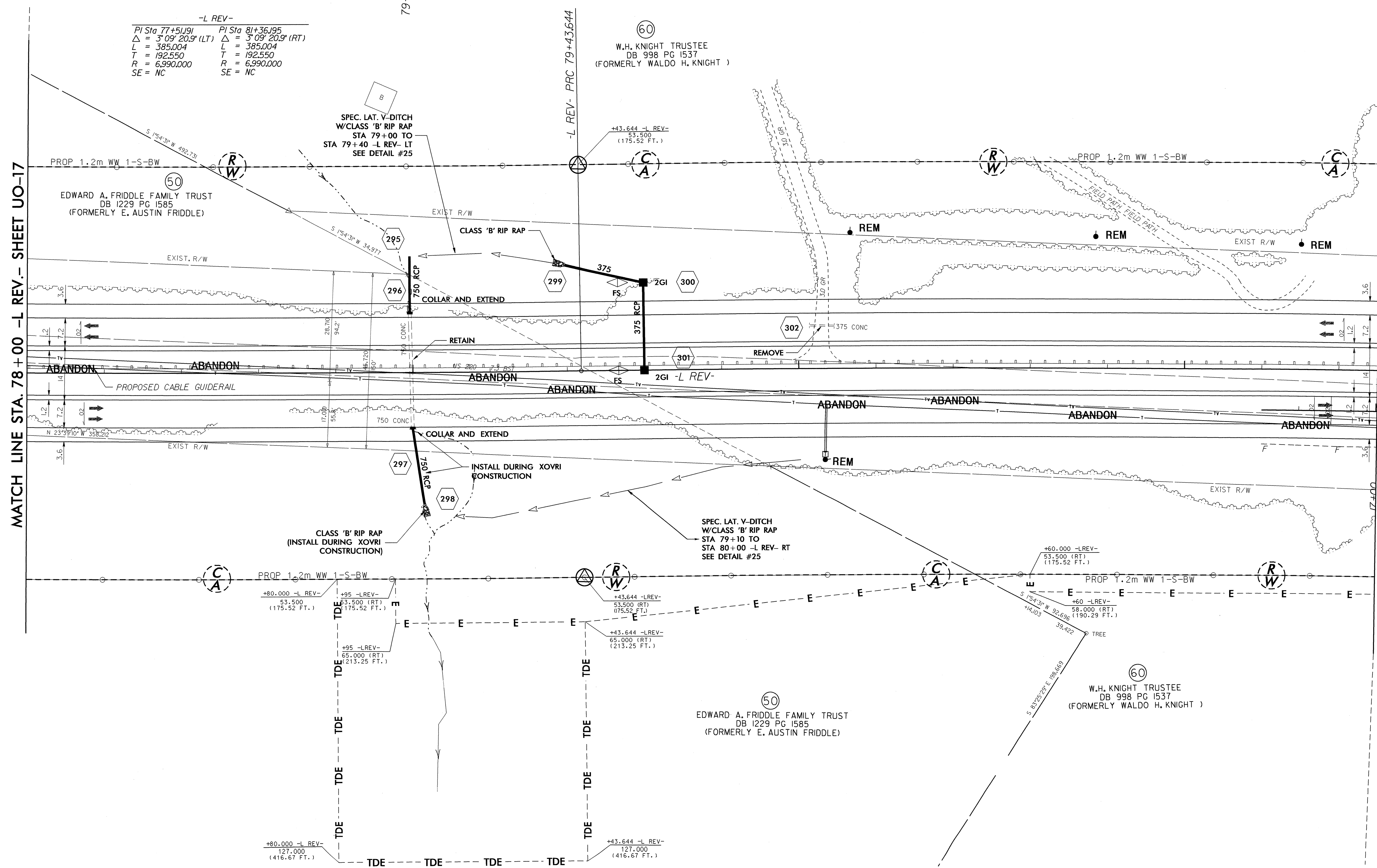


MATCH LINE STA. 74+40 -L REV.- SHEET UO-16

MATCH LINE STA. 78+00 -L REV.- SHEET UO-18

-L REV-		DET "C"	
PI Sta 77+51.91	PI Sta 10+56.714	PI Sta 11+75.573	
$\Delta = 3^{\circ} 09' 20.9$ (LT)	$\Delta = 12^{\circ} 56' 33.1$ (RT)	$\Delta = 14^{\circ} 16' 44.4$ (LT)	
L = 385.004	L = 112.945	L = 124.608	
T = 192.550	T = 56.714	T = 62.628	
R = 6,990.000	R = 500.000	R = 500.000	
SE = NC	SE = .06	SE = .06	

20 JUN 2014 14:41:00 P:\2413C\UO-17.dgn

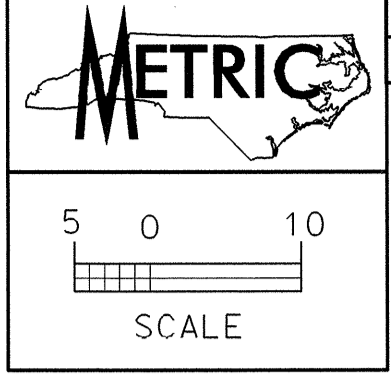


-L REV-

PI Sta 77+51.191	PI Sta 81+36.195
$\Delta = 3^\circ 09' 20.9''$ (LT)	$\Delta = 3^\circ 09' 20.9''$ (RT)
L = 385.004	L = 385.004
T = 192.550	T = 192.550
R = 6,990.000	R = 6,990.000
SE = NC	SE = NC

MATCH LINE STA. 78+00 -L REV- SHEET UO-17

MATCH LINE STA. 81+50 -L REV- SHEET UO-19

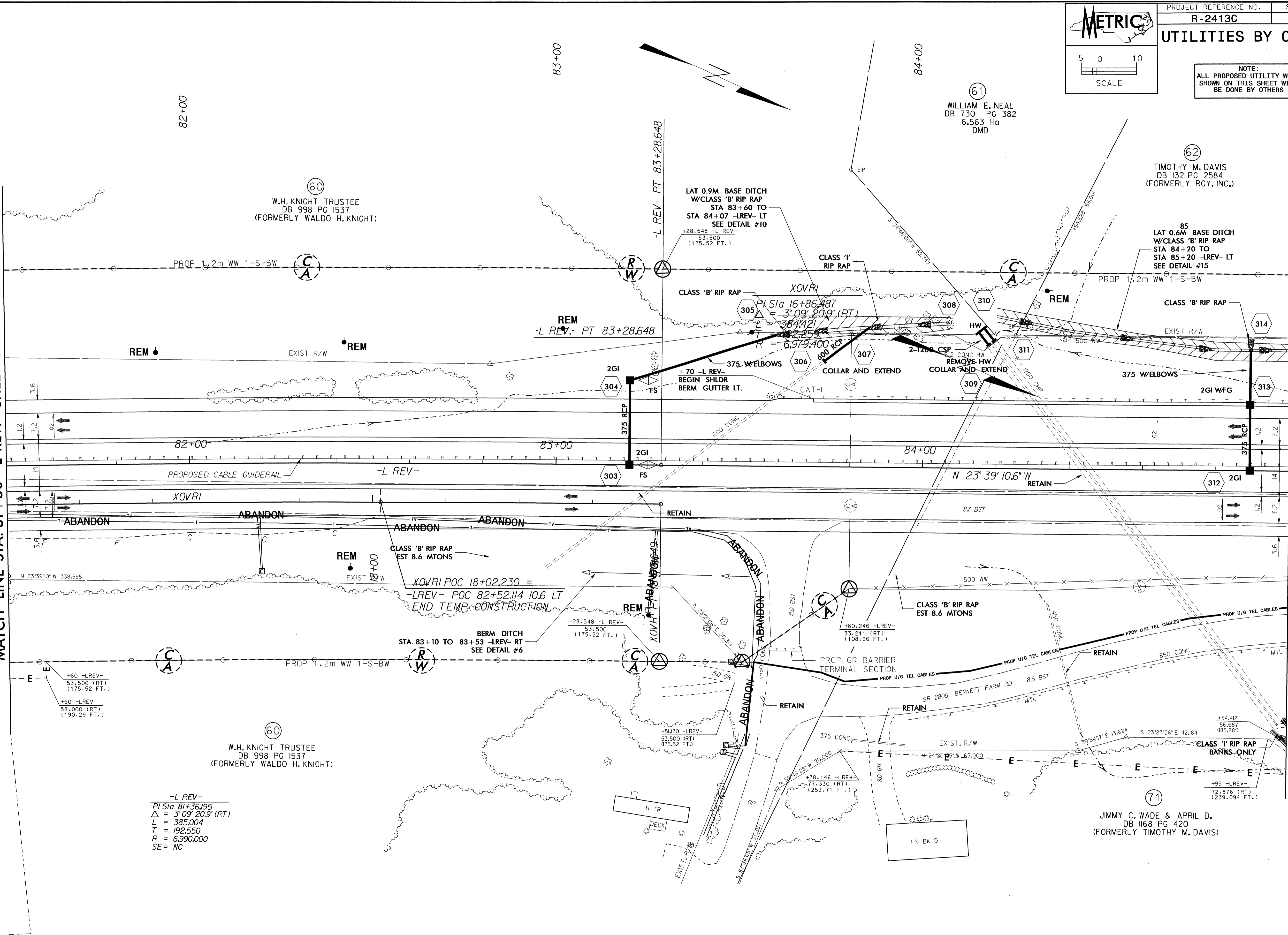


PROJECT REFERENCE NO. R-2413C  
 SHEET NO. UO-19  
**UTILITIES BY OTHERS**

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

MATCH LINE STA. 81+50 -L REV.- SHEET UO-18

MATCH LINE STA. 85+00 -L REV.- SHEET UO-20



60  
 W.H. KNIGHT TRUSTEE  
 DB 998 PG 1537  
 (FORMERLY WALDO H. KNIGHT)

62  
 TIMOTHY M. DAVIS  
 DB 1321 PG 2584  
 (FORMERLY RGY, INC.)

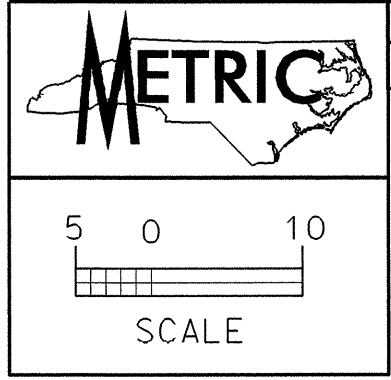
61  
 WILLIAM E. NEAL  
 DB 730 PG 382  
 6.563 Ha  
 DMD

60  
 W.H. KNIGHT TRUSTEE  
 DB 998 PG 1537  
 (FORMERLY WALDO H. KNIGHT)

71  
 JIMMY C. WADE & APRIL D.  
 DB 1168 PG 420  
 (FORMERLY TIMOTHY M. DAVIS)

-L REV-  
 PI Sta 81+36.195  
 $\Delta = 3^{\circ} 09' 20.9" (RT)$   
 $L = 385.004$   
 $T = 192.550$   
 $R = 6,990.000$   
 SE = NC

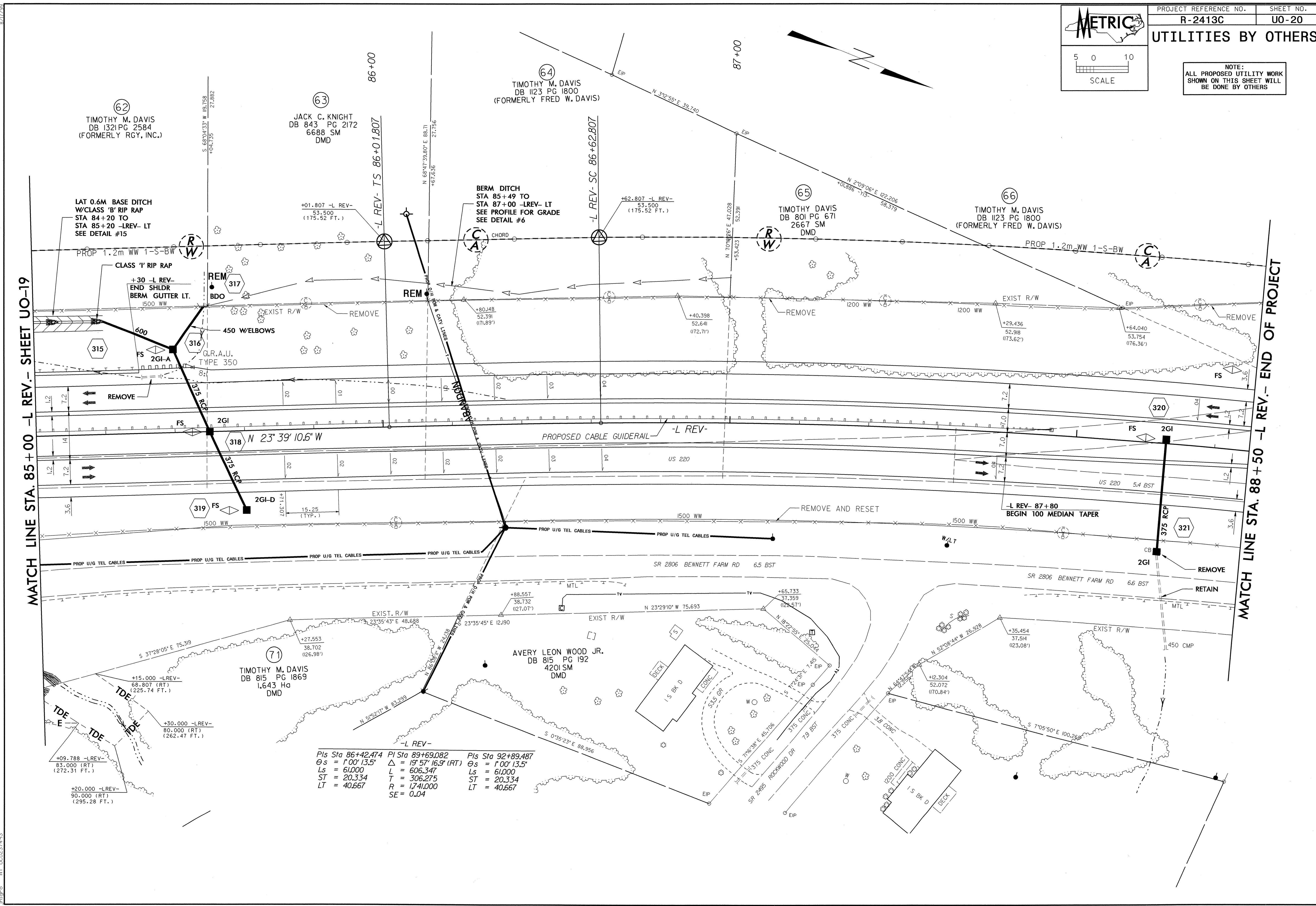
8/17/23  
 20-0111-20114577  
 PROJECT NO: 2413C Ut. 21.11019 pah-46p  
 DATE: 08/17/23 4:53



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

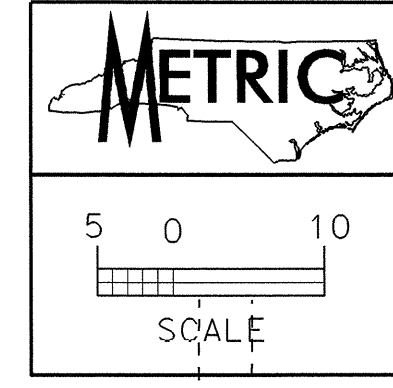
MATCH LINE STA. 85+00 -L REV.- SHEET UO-19

MATCH LINE STA. 88+50 -L REV.- END OF PROJECT



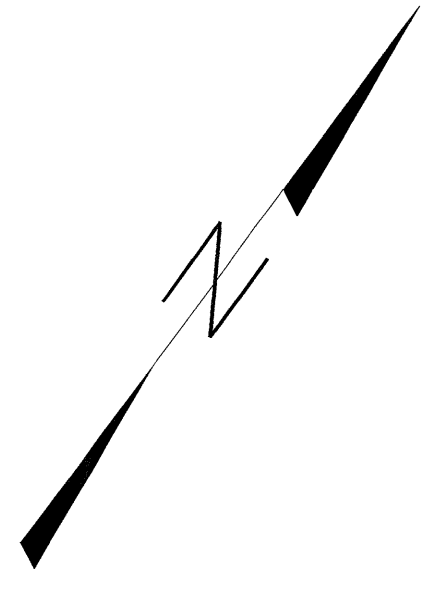
Pls Sta 86+42.474	PI Sta 89+69.082	Pls Sta 92+89.487
$\theta_s = 1^{\circ}00'13.5''$	$\Delta = 19^{\circ}57'16.9''$ (RT)	$\theta_s = 1^{\circ}00'13.5''$
$L_s = 61,000$	$L = 606,347$	$L_s = 61,000$
$ST = 20,334$	$T = 306,275$	$ST = 20,334$
$LT = 40,667$	$R = 1,741,000$	$LT = 40,667$
	$SE = 0.04$	

20 JUN 2011 14:49  
 C:\JUN 2011\1449\113\PROJECTS\NR2413C\UO-20\UO20.mxd  
 113337453

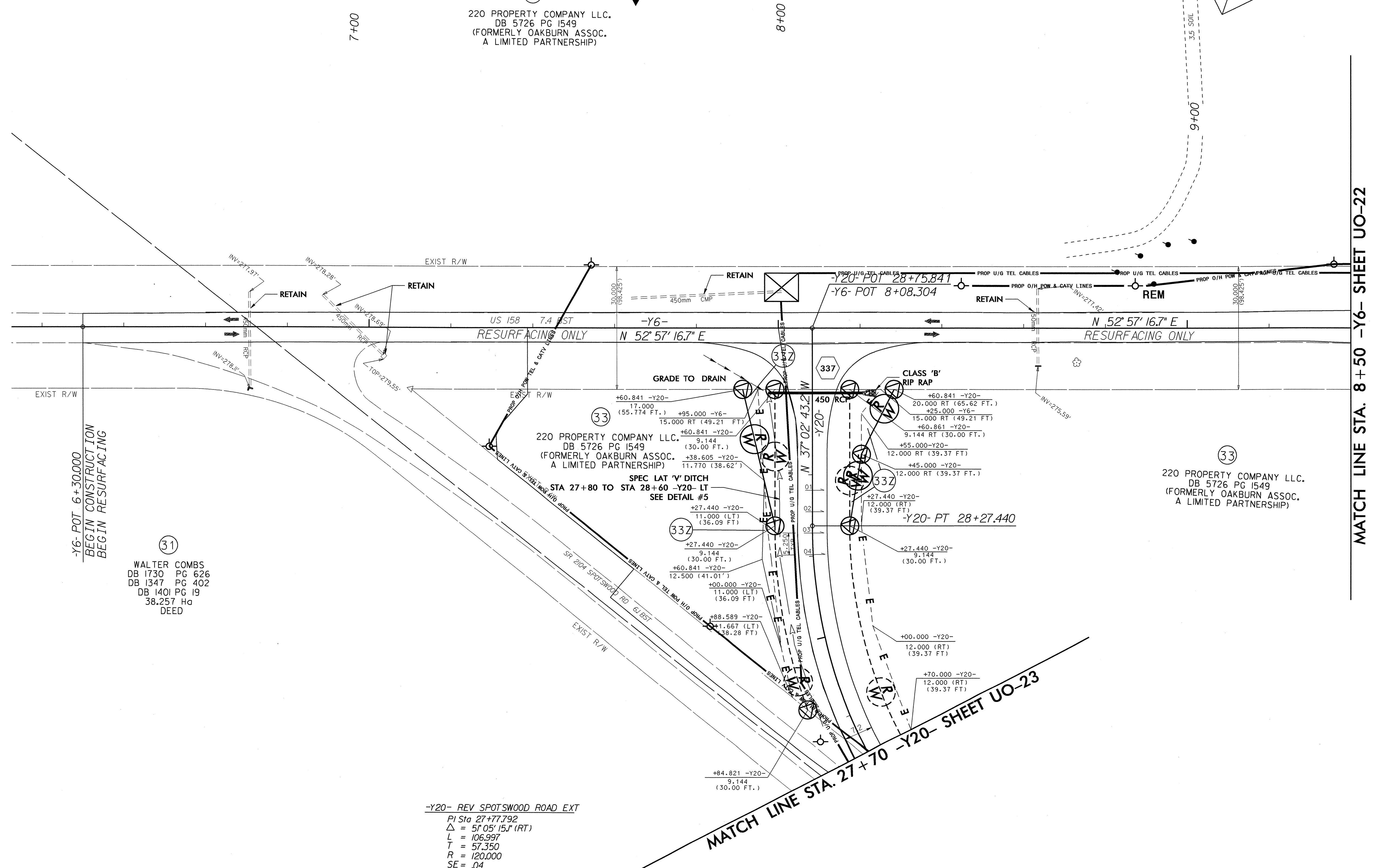


**UTILITIES BY OTHERS**

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



33  
220 PROPERTY COMPANY LLC.  
DB 5726 PG 1549  
(FORMERLY OAKBURN ASSOC.  
A LIMITED PARTNERSHIP)



-Y6- POT 6+30.000  
BEGIN CONSTRUCTION  
BEGIN RESURFACING

31  
WALTER COMBS  
DB 1730 PG 626  
DB 1347 PG 402  
DB 1401 PG 19  
38.257 Hq  
DEED

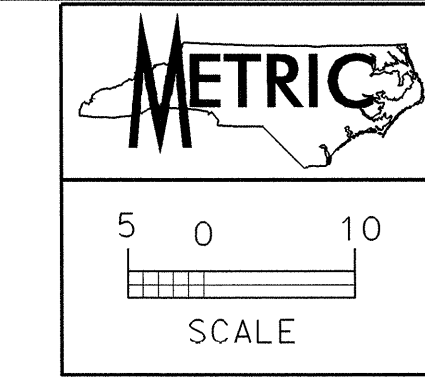
-Y20- REV SPOTSWOOD ROAD EXT  
PI Sta 27+77.792  
 $\Delta = 5^\circ 05' 15''$  (RT)  
L = 106.997  
T = 57.350  
R = 120.000  
SE = .04

MATCH LINE STA. 8+50 -Y6- SHEET UO-22

MATCH LINE STA. 27+70 -Y20- SHEET UO-23

8.17.09  
 P:\JMS\2011\461  
 P:\JMS\2011\461\461-1\461-1-26-10021-path.dgn  
 JMS





**UTILITIES BY OTHERS**

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

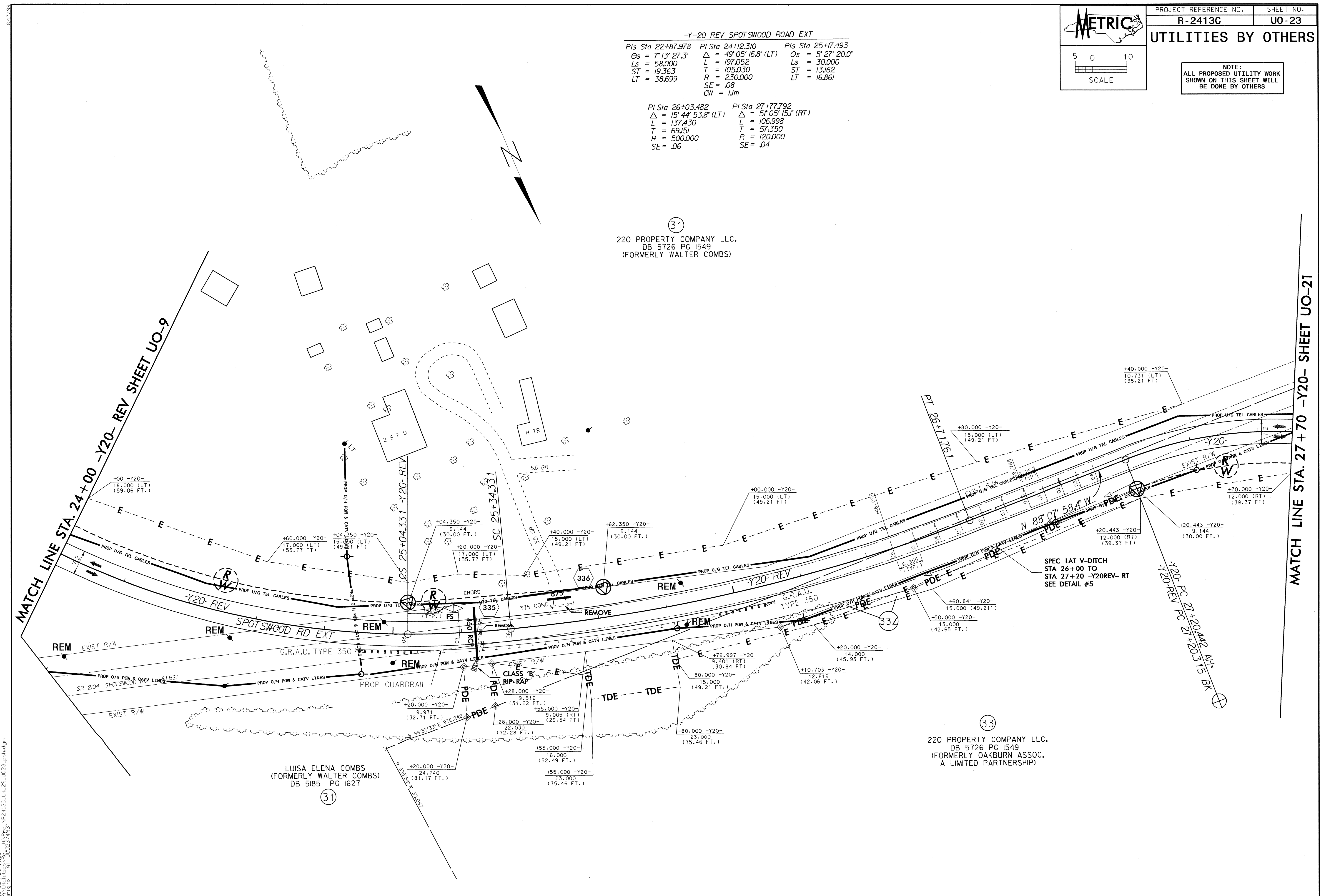
**-Y-20 REV SPOTSWOOD ROAD EXT**

PIs Sta 22+87.978	PI Sta 24+12.310	PIs Sta 25+17.493
Es = 7'13' 27.3"	Δ = 49'05' 16.8" (LT)	Es = 5'27' 20.0"
Ls = 58.000	L = 197.052	Ls = 30.000
ST = 19.363	T = 105.030	ST = 13.62
LT = 38.699	R = 230.000	LT = 16.861
	SE = .08	
	CW = 1jm	

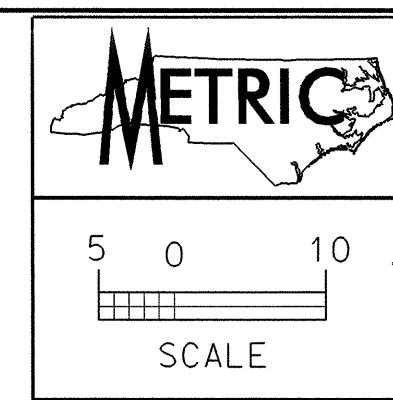
PI Sta 26+03.482	PI Sta 27+77.792
Δ = 15'44' 53.8" (LT)	Δ = 51'05' 15.1" (RT)
L = 137.430	L = 106.998
T = 69.151	T = 57.350
R = 500.000	R = 120.000
SE = .06	SE = .04

(31)  
220 PROPERTY COMPANY LLC.  
DB 5726 PG 1549  
(FORMERLY WALTER COMBS)

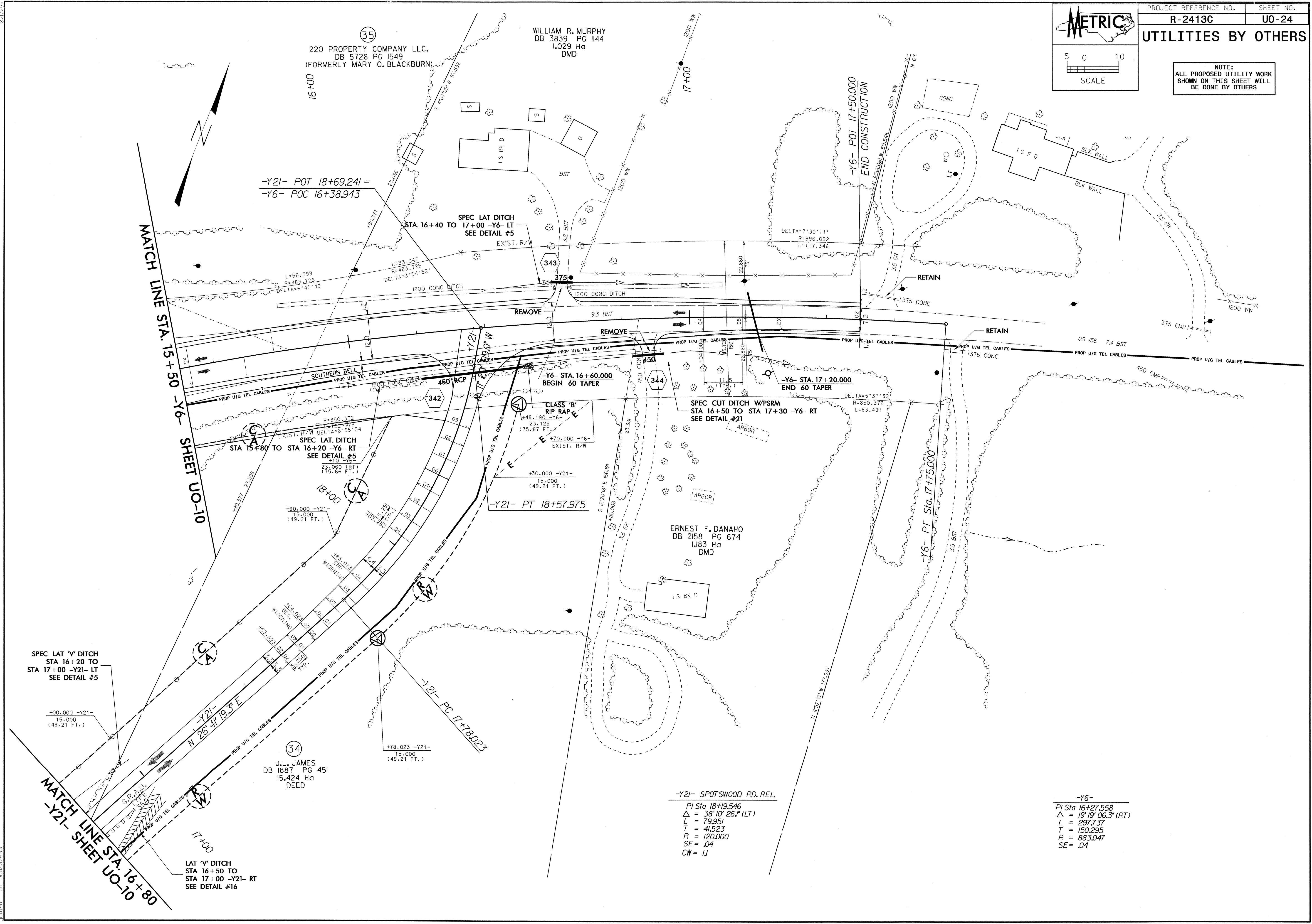


(33)  
220 PROPERTY COMPANY LLC.  
DB 5726 PG 1549  
(FORMERLY OAKBURN ASSOC.  
A LIMITED PARTNERSHIP)

JUN 2011 1456  
 R:\JUN 2011 1456  
 U:\JUN 2011 1456  
 P:\JUN 2011 1456  
 R-2413C-UO-23-1456.dwg  
 10:00 AM 6/23/11  
 11:23:43



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



(35)  
220 PROPERTY COMPANY LLC.  
DB 5726 PG 1549  
(FORMERLY MARY O. BLACKBURN)

WILLIAM R. MURPHY  
DB 3639 PG 1144  
1.029 Ha  
DMD

ERNEST F. DANAHO  
DB 2158 PG 674  
1.183 Ha  
DMD

(34)  
J.L. JAMES  
DB 1887 PG 451  
15.424 Ha  
DEED

-Y21- POT 18+69.241 =  
-Y6- POC 16+38.943

SPEC LAT DITCH  
STA. 16+40 TO 17+00 -Y6- LT  
SEE DETAIL #5

SPEC LAT DITCH  
STA 15+80 TO STA 16+20 -Y6- RT  
SEE DETAIL #5

-Y21- SPOTSWOOD RD. REL.  
PI Sta 18+19.546  
 $\Delta = 38^{\circ}10'26.1$  (LT)  
L = 79.951  
T = 41.523  
R = 120.000  
SE = .04  
CW = 11

-Y6-  
PI Sta 16+27.558  
 $\Delta = 19^{\circ}19'06.3$  (RT)  
L = 297.737  
T = 150.295  
R = 883.047  
SE = .04

SPEC LAT 'V' DITCH  
STA 16+20 TO  
STA 17+00 -Y21- LT  
SEE DETAIL #5

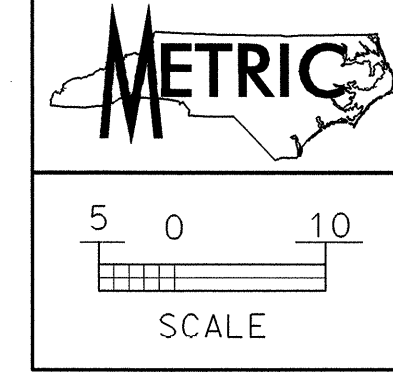
+00.000 -Y21-  
15.000  
(49.21 FT.)

MATCH LINE STA. 16+80  
-Y21- SHEET UO-10

LAT 'V' DITCH  
STA 16+50 TO  
STA 17+00 -Y21- RT  
SEE DETAIL #16

20 JUN 2016 8:50 AM J:\Projects\R2413C\UO-24\UO24\_psh.dgn





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

-Y19-  
 PI Sta 11+16.398  
 $\Delta = 1' 36'' 15''$  (LT)  
 L = 55.992  
 T = 27.998  
 R = 2,000.000

-Y10-  
 PI Sta 7+17.001  
 $\theta_s = 2' 03'' 24.4''$   
 Ls = 56.000  
 ST = 18.669  
 LT = 37.336

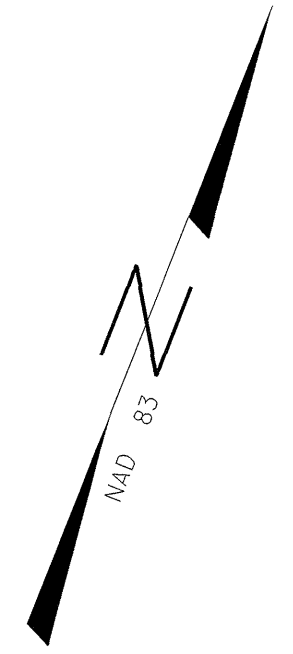
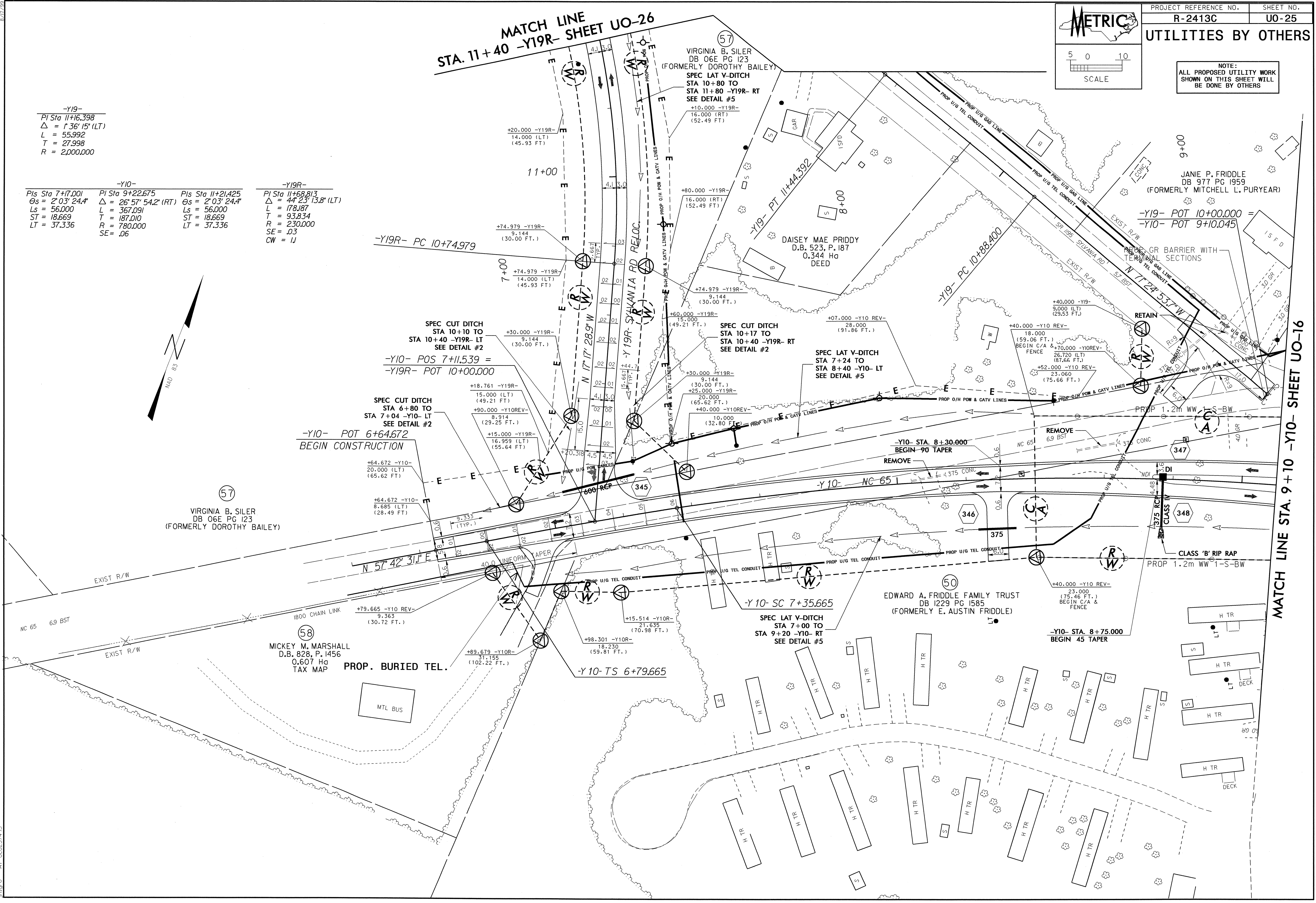
PI Sta 9+22.675  
 $\Delta = 26' 57'' 54.2''$  (RT)  
 L = 367.091  
 T = 187.010  
 R = 780.000  
 SE = .06

PI Sta 11+21.425  
 $\theta_s = 2' 03'' 24.4''$   
 Ls = 56.000  
 ST = 18.669  
 LT = 37.336

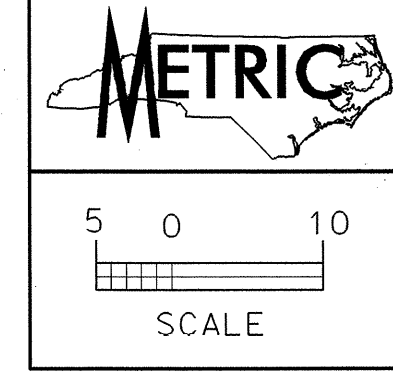
-Y19R-  
 PI Sta 11+69.813  
 $\Delta = 44' 23'' 13.8''$  (LT)  
 L = 178.187  
 T = 93.834  
 R = 230.000  
 SE = .03  
 CW = 11

**MATCH LINE**  
 STA. 11+40 -Y19R- SHEET UO-26

**MATCH LINE**  
 STA. 9+10 -Y10- SHEET UO-16



25-111-20116-5  
 R:\Utilities\2413C\UO-25-PAV.dgn  
 11/15/2011 10:51:21 AM  
 11/15/2011 10:51:21 AM



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

-Y19R-			-Y19B-		
PI Sta 11+68.813	PI Sta 12+78.568	PI Sta 13+27.390	PI Sta 10+38.717	PI Sta 10+38.717	PI Sta 10+38.717
$\Delta = 44^\circ 23' 18.8"$ (LT)	$\Delta = 18^\circ 02' 32.4"$ (RT)	$\Delta = 8^\circ 23' 26.4"$ (RT)	$\Delta = 55^\circ 27' 07.1"$ (RT)		
L = 178.187	L = 50.384	L = 47.595	L = 38.713		
T = 93.834	T = 25.402	T = 23.840	T = 21.024		
R = 230.000	R = 160.000	R = 325.000	R = 40.000		
SE = .03	SE = EX		SE = .03		
			CW = 17		

57  
VIRGINIA B. SILER  
DB 06E PG 123  
(FORMERLY DOROTHY BAILEY)

BENJAMIN T. SILER  
D.B. 7II, P. 470  
0.826 Ha  
DEED

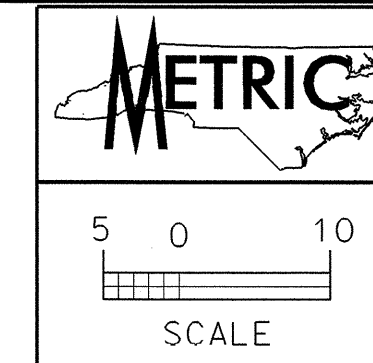
-Y19B- POT 10+00.000 =  
-Y19R- POC 11+60.000  
+60.000 -Y19R-  
14.000 (LT)  
(45.93 FT.)

SPEC LAT V-DITCH  
STA 10+80 TO  
STA 11+80 -Y19R- RT  
SEE DETAIL #5

-Y19B- POT 10+76.206 =  
-Y19R- POT 11+68.543  
END CONSTRUCTION

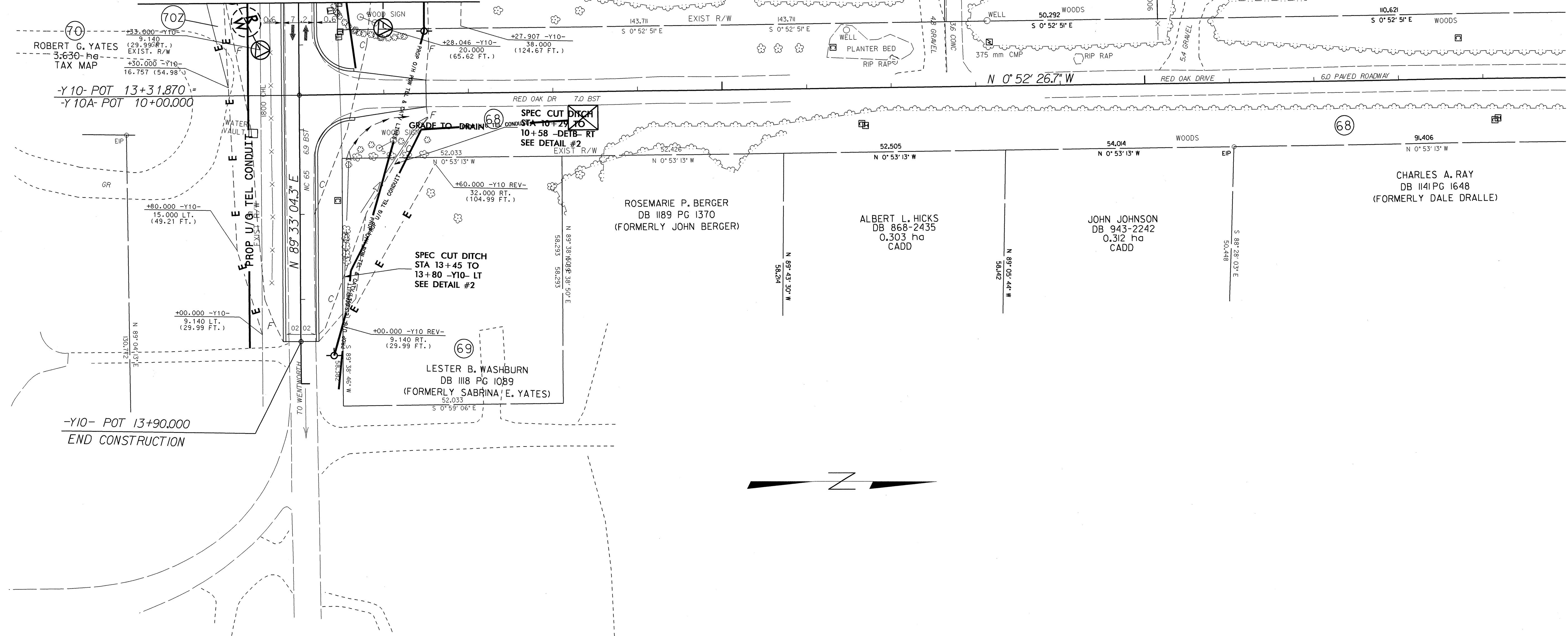
MATCH LINE STA. 11+40 -Y19R-  
SHEET UO-25

8/17/03  
C:\JUN-2011\1616  
R:\Utilities\2413C\UO-26\11-0026.pat.dgn  
11/11/11 11:37:43  
11/11/11 11:37:43  
11/11/11 11:37:43



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

MATCHLINE STA. 13+10 -Y10- SHEET UO-16



ROBERT G. YATES  
3.630 ha  
TAX MAP

Y10- POT 13+31.870  
-Y10A- POT 10+00.000

-Y10- POT 13+90.000  
END CONSTRUCTION

SPEC CUT DITCH  
STA 13+45 TO  
13+80 -Y10- LT  
SEE DETAIL #2

LESTER B. WASHBURN  
DB III8 PG I089  
(FORMERLY SABRINA E. YATES)

SPEC CUT DITCH  
STA 10+58 TO  
10+75 -Y10- RT  
SEE DETAIL #2

ROSEMARIE P. BERGER  
DB II89 PG I370  
(FORMERLY JOHN BERGER)

ALBERT L. HICKS  
DB 868-2435  
0.303 ha  
CADD

JOHN JOHNSON  
DB 943-2242  
0.312 ha  
CADD

CHARLES A. RAY  
DB II41 PG I648  
(FORMERLY DALE DRALLE)

ARNOLD BAILEY  
DB 549-20  
0.734 ha  
CADD

ROBERT BURGESS  
DB 866-690  
1.044 ha  
PLAT

WILLIAM BURGESS, JR.  
DB 866-687  
0.654 ha  
PLAT

DARNELL HARLEY  
DB 1204 PG 489  
(FORMERLY ROBERT MAYS)