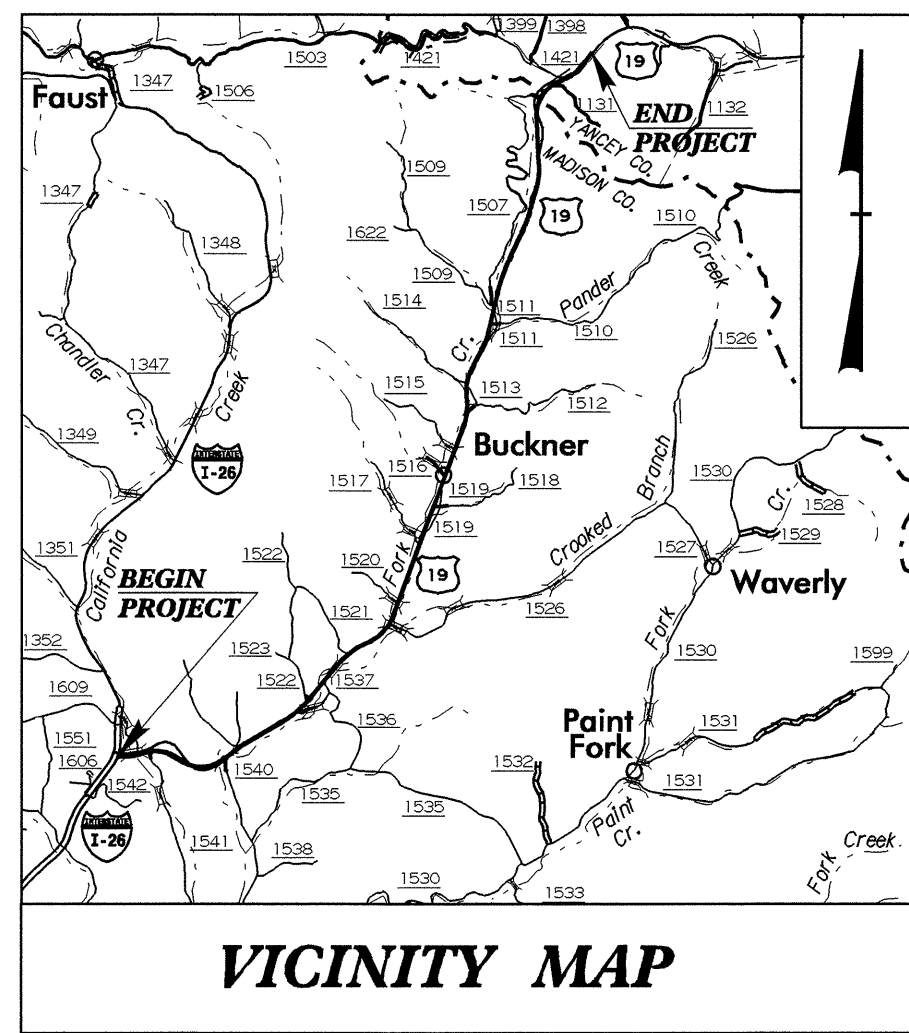


9/09/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
MADISON YANCEY COUNTIES

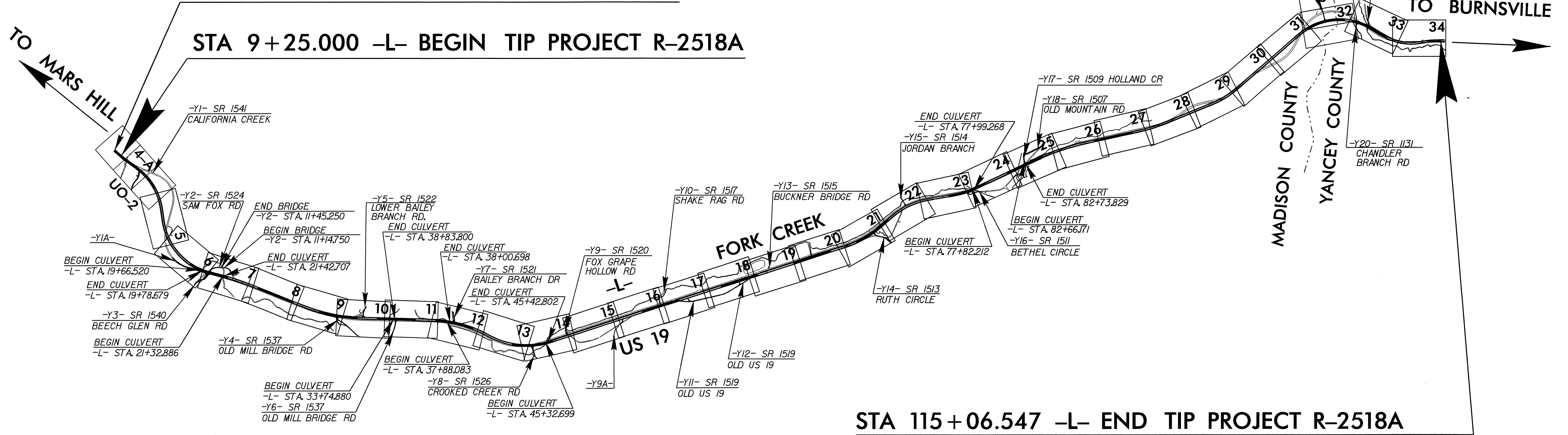
LOCATION: US19 FROM I-26 TO 0.8 KM EAST
OF THE YANCEY COUNTY LINE

TYPE OF WORK: UTILITIES

STA 8+00.00 -L- BEGIN CONSTRUCTION

STA 9+25.000 -L- BEGIN TIP PROJECT R-2518A

TO MARS HILL

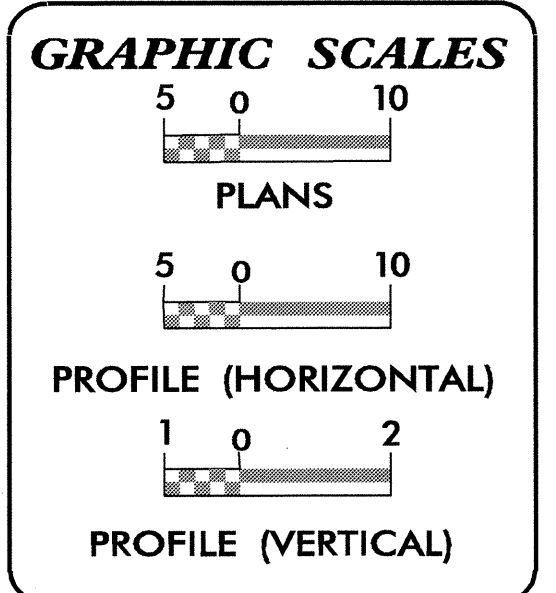


STA 115+06.547 -L- END TIP PROJECT R-2518A

METRIC
ALL DIMENSIONS IN
THESE PLANS ARE IN METERS
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

T.I.P. NO.	SHEET NO.
R-2518A	UC-1

PROJECT: R-2518A



SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN SHEET
UC-3	PROFILE SHEET
UC-4	DETAILS SHEET

WATER AND SEWER OWNERS ON PROJECT
(1) WATER - CITY OF MARS HILL
(2) SEWER - CITY OF MARS HILL

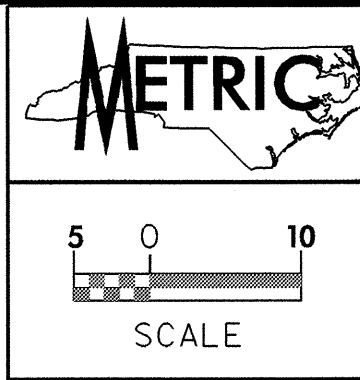
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
ROGER WORTHINGTON
34723

PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITIES 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
Bo Hemphill, P.E. UTILITIES PROJECT DESIGNER

27-MAR-2008 12:14 P.M. C:\Users\psh\dgn\psh\dgn\PROJECTS\2518a-ut.tit...uc01.psh.dgn



PROJECT REFERENCE NO.	SHEET NO.
R-2518A	UC-2
DESIGNED BY: BH	
DRAWN BY: BH	
CHECKED BY: BH	
APPROVED BY: BH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

-L-	-YI-	-DIA-	-DIB-
PIs Sta 9+52.691 Os = 4' 4" 16.2" Ls = 90.000 LT = 60.021 ST = 30.019	PIs Sta 10+72.705 Os = 5' 55" 37.7" Ls = 90.000 LT = 60.034 ST = 30.031	PI Sta 10+68.288 Δ = 68° 05' 00.1" (LT) L = 35.648 T = 20.267 R = 30.000 SE = 0.080 RO = 64	PI Sta 12+16.185 Δ = 48° 59' 25.3" (LT) L = 102.605 T = 54.675 R = 120.000 SE = 0.070 RO = 42
PI Sta 12+41.588 Δ = 35° 25' 17.4" (RT) L = 268.927 T = 138.916 R = 435.000 SE = 0.060	PI Sta 10+28.190 Δ = 86° 37' 15.7" (RT) L = 51.37 T = 25.94 R = 25.000	PLUG 0+76.800 Δ = 37° 13.0" (LT) L = 5.37 T = 2.594 R = 15.000	PI Sta 10+17.232 Δ = 13° 41' 08.5" (RT) L = 9.554 T = 4.800 R = 40.000

NOTE: ALL WATER LINES SHALL BE DI

PROP. FIRE HYDRANT

PROP. 156m 200mm SANITARY GRAVITY SEWER

PROP. 208m 200mm WATER LINE

PROP. SANITARY SEWER CLEAN-OUT

SN-4
PROP. 1200mm DIA. UTILITY MANHOLE
PROP. 1.4m UTILITY MANHOLE WALL 1200mm DIA.

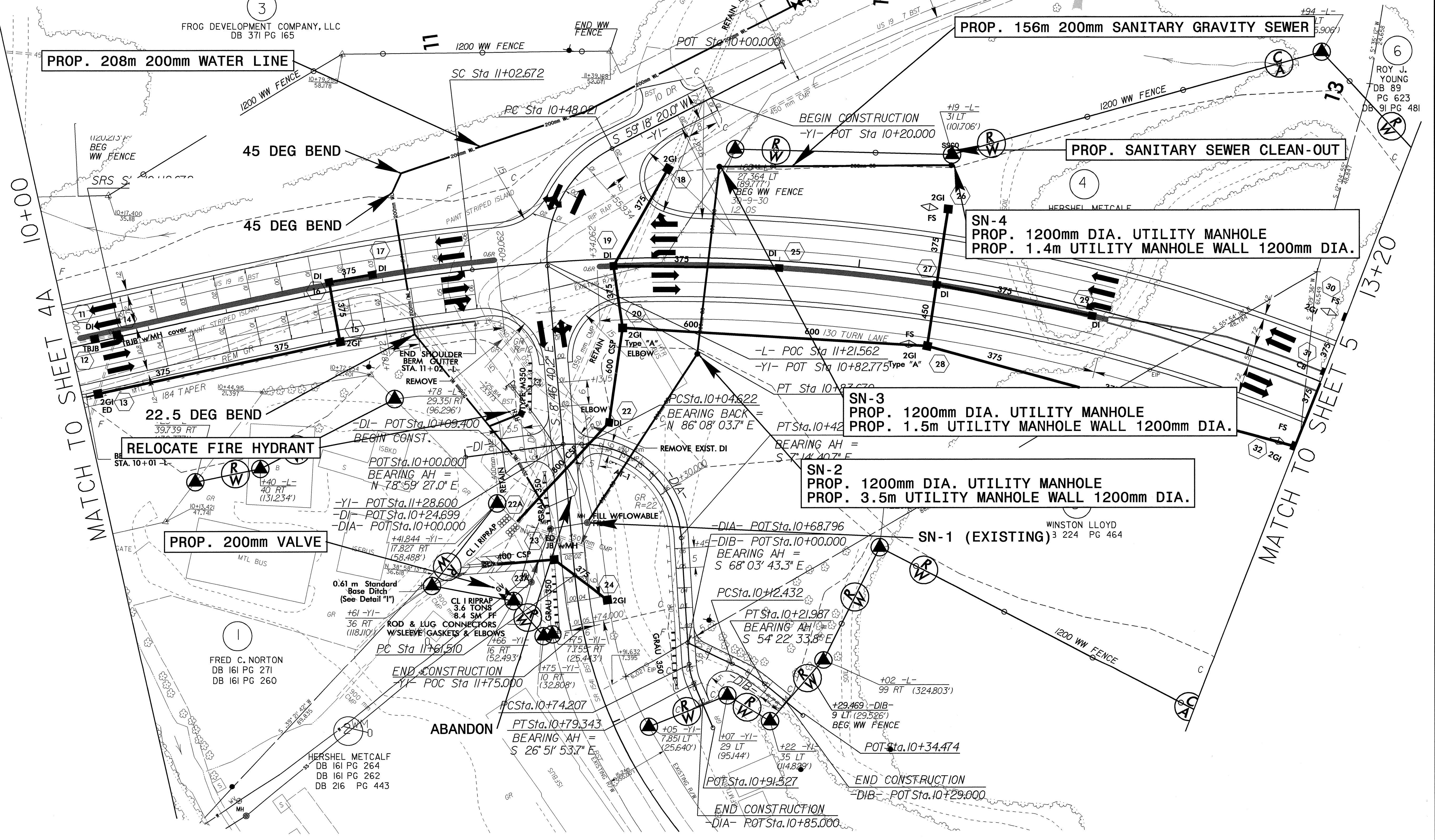
SN-3
PROP. 1200mm DIA. UTILITY MANHOLE
PROP. 1.5m UTILITY MANHOLE WALL 1200mm DIA.

SN-2
PROP. 1200mm DIA. UTILITY MANHOLE
PROP. 3.5m UTILITY MANHOLE WALL 1200mm DIA.

SN-1 (EXISTING)

RELOCATE FIRE HYDRANT

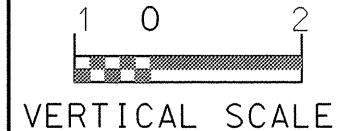
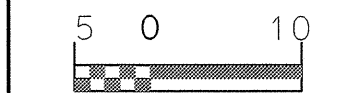
PROP. 200mm VALVE



28-MAR-2008 12:03
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 jg



PROJECT REFERENCE NO.	R-2518A	SHEET NO.	UC-3
DESIGNED BY:	BH		
DRAWN BY:	BH		
CHECKED BY:	BH		
APPROVED BY:	BH		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
DESIGN SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119			
			UTILITY CONSTRUCTION PLANS ONLY



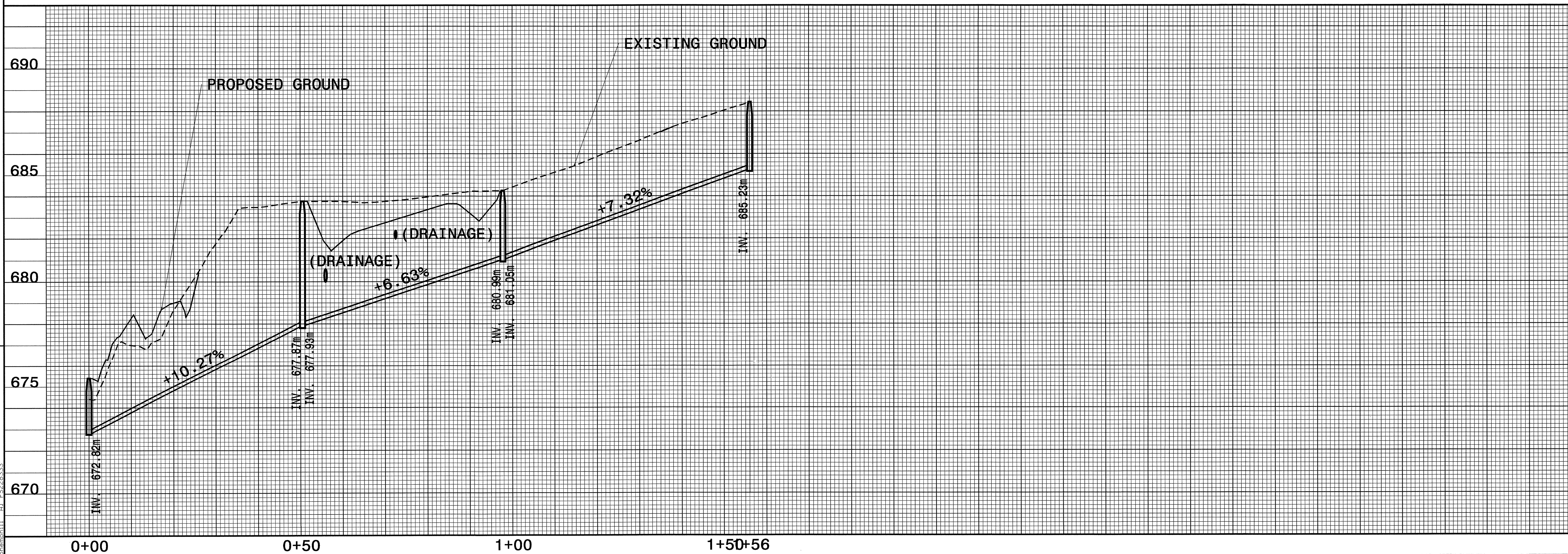
200mm SEWER LINE (PROFILE)

SN-1 (EXISTING)
1200mm Dia Utility Manhole
0+00.00
TOP ELEVATION 675.40m

SN-2
1200mm Dia Utility Manhole
0+50.46
TOP ELEVATION 683.77m

SN-3
1200mm Dia Utility Manhole
0+97.77
TOP ELEVATION 684.25m

SN-4
1200mm Dia Utility Manhole
1+56.07
TOP ELEVATION 688.43m

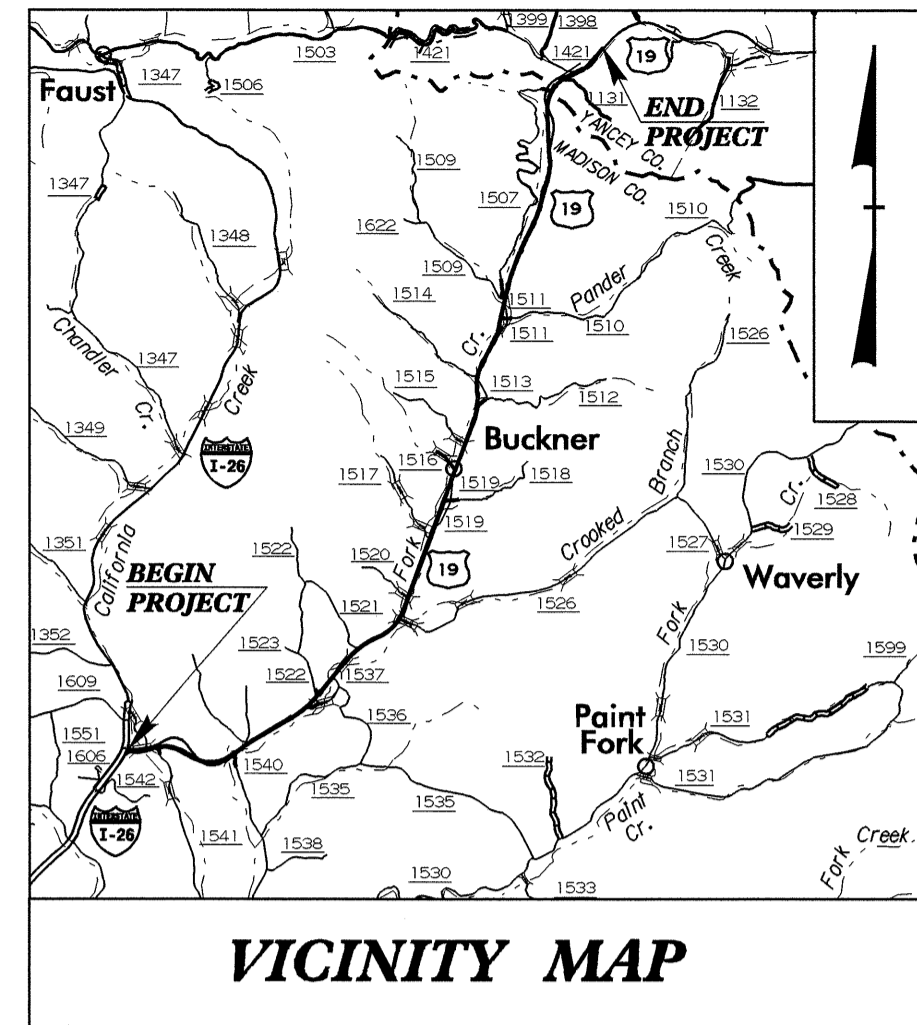


REVISIONS

25-MAR-2008 14:11:53 \\fs1\projects\2518a\ut-upr-uc3.dgn

9/20/09

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITY BY OTHERS PLANS MADISON/YANCEY COUNTIES

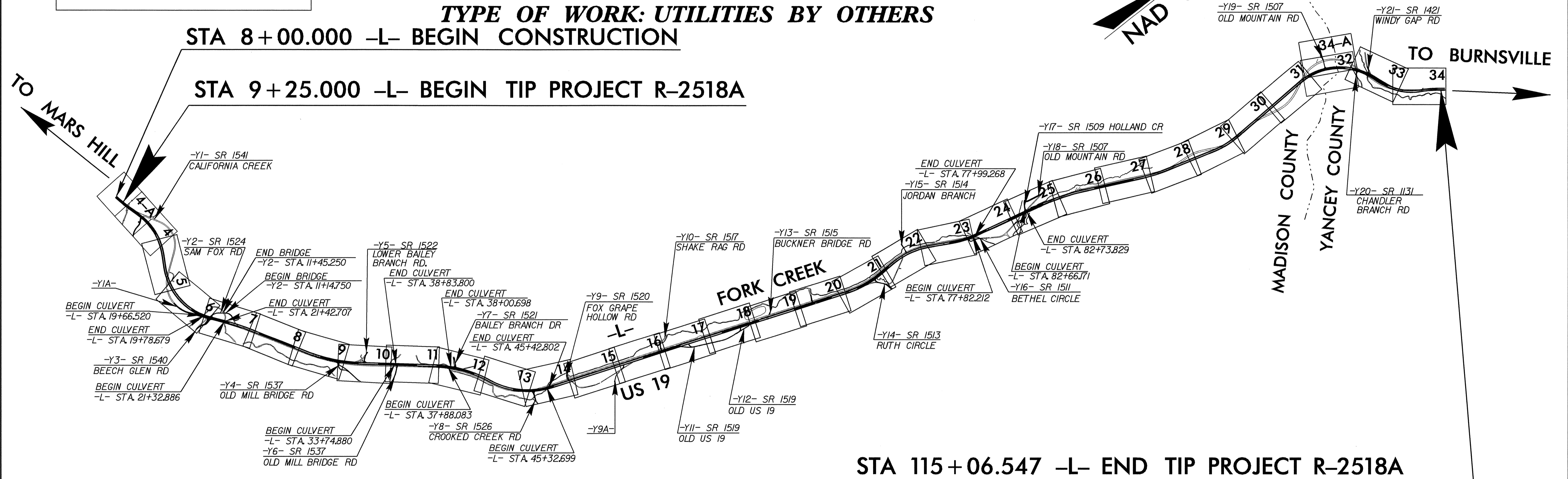
LOCATION: US19 FROM I-26 TO 0.8 KM EAST
OF THE YANCEY COUNTY LINE

TYPE OF WORK: UTILITIES BY OTHERS

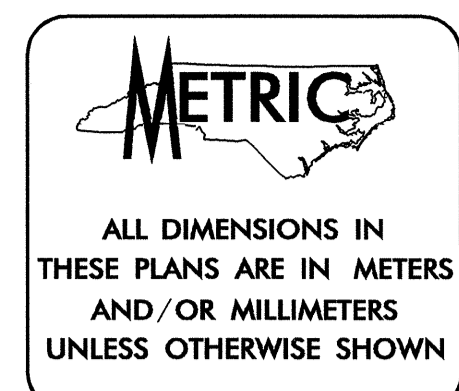
STA 8+00.000 -L- BEGIN CONSTRUCTION

STA 9+25.000 -L- BEGIN TIP PROJECT R-2518A

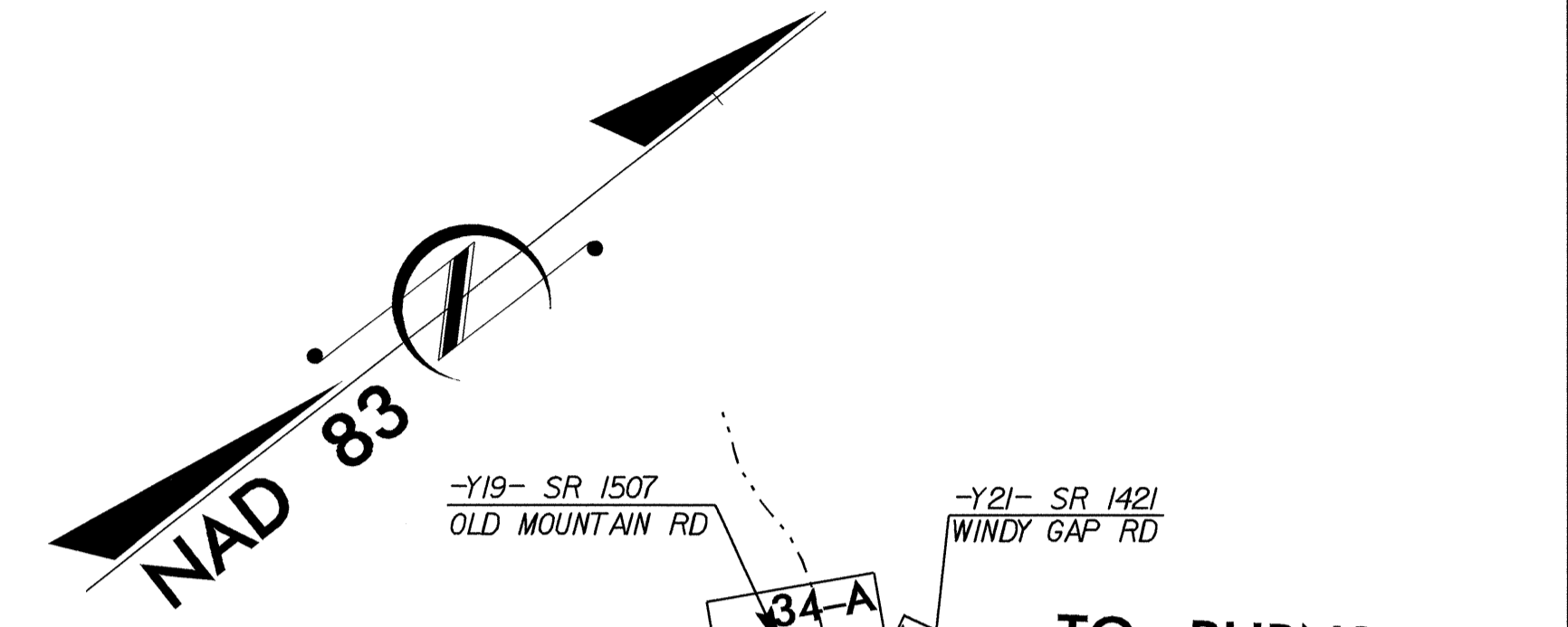
TO MARS HILL



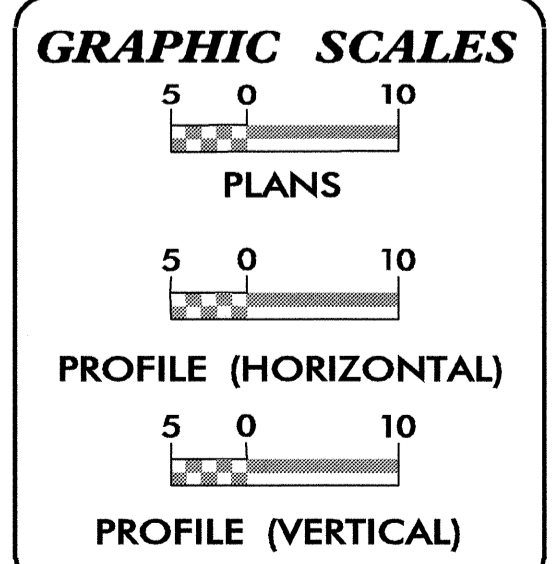
STA 115+06.547 -L- END TIP PROJECT R-2518A



T.I.P. NO.	SHEET NO.
R-2518A	UO-1

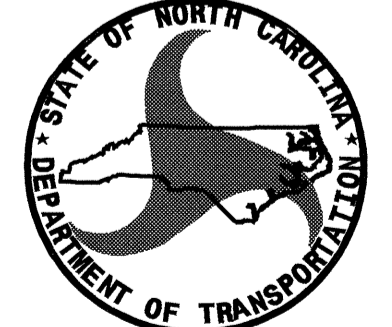


PROJECT: R-2518A



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-33	UTILITIES BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT
(1) French Broad EMC
(2) Verizon
(3) Country Cable
(4) Progress Energy

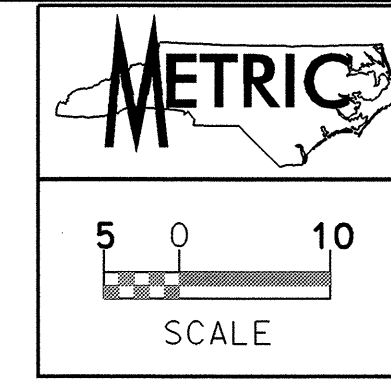


PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
DESIGN SERVICES
UTILITIES SECTION**

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

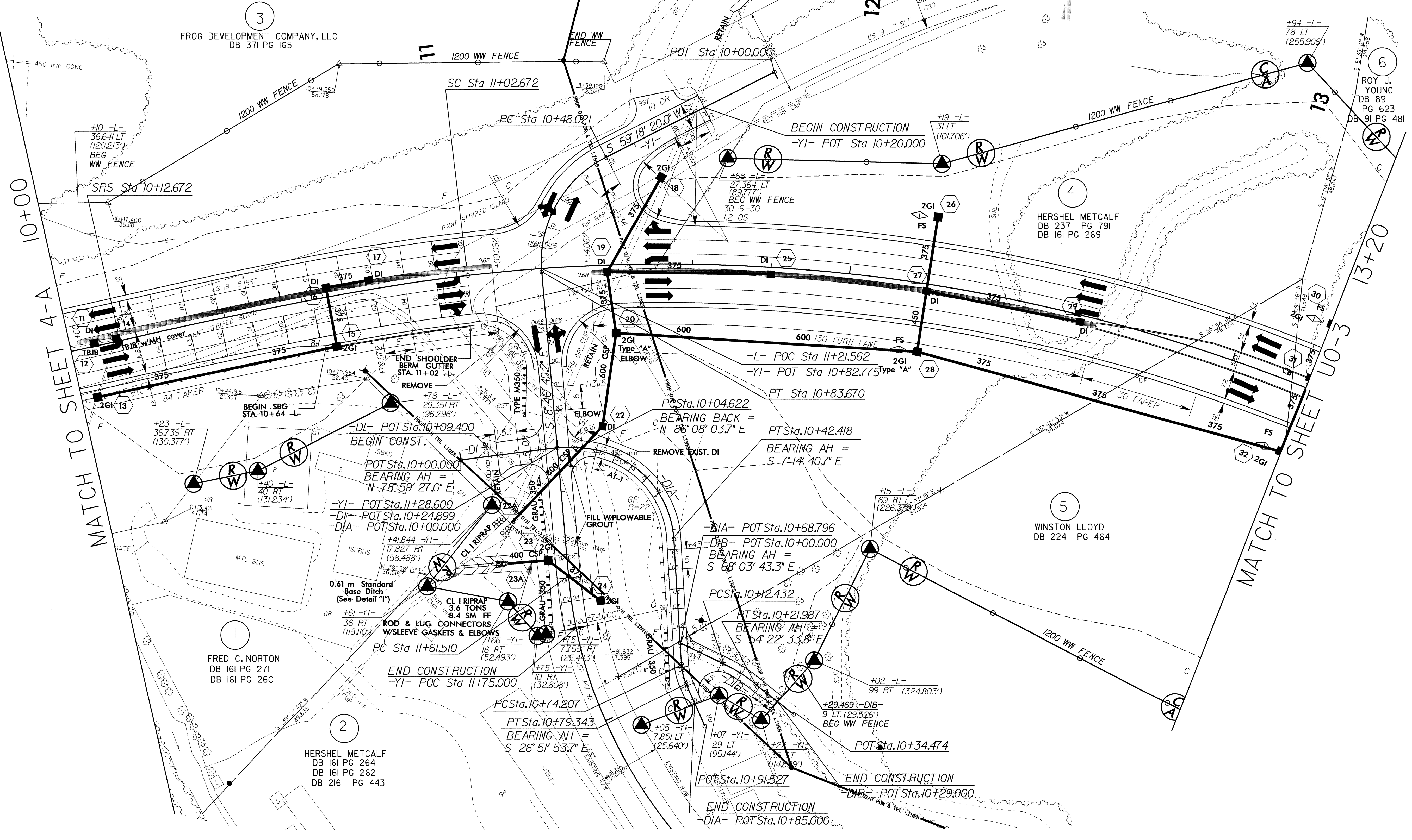
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Bo Hemphill, P.E. UTILITIES PROJECT DESIGNER

24-AUG-2007 13:20
C:\pcc\proj\2518a_ut_title_uo01_psh.dgn
Bohemphill PS-Oce34dtbond



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

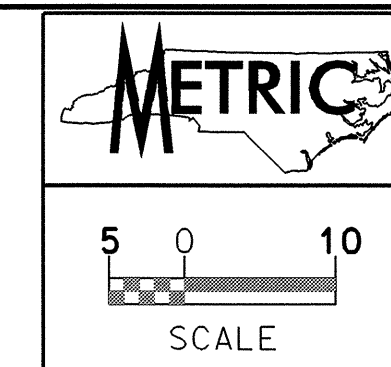
-L-			-YI-		-DIA-		-DIB-	
PIs Sta 9+52.691	PIs Sta 10+72.705	PI Sta 12+41.588	PI Sta 10+68.288	PI Sta 12+16.185	PI Sta 10+28.190	PI Sta 10+76.800	PI Sta 10+17.232	
$\Delta s = 4' 4" 16.2"$	$\Delta s = 5' 55" 37.7"$	$\Delta = 35' 25" 17.4" (RT)$	$\Delta = 68' 05" 00.1" (LT)$	$\Delta = 48' 59" 25.3" (LT)$	$\Delta = 86' 37" 15.7" (RT)$	$\Delta = 19' 37" 13.0" (LT)$	$\Delta = 13' 41" 08.5" (RT)$	
$Ls = 90.000$	$Ls = 90.000$	$L = 268.927$	$L = 35.648$	$L = 102.605$	$L = 37.796$	$L = 5.137$	$L = 9.554$	
$LT = 60.021$	$LT = 60.034$	$T = 138.916$	$T = 20.267$	$T = 54.675$	$T = 23.567$	$T = 2.594$	$T = 4.800$	
$ST = 30.019$	$ST = 30.031$	$R = 435.000$	$R = 30.000$	$R = 120.000$	$R = 25.000$	$R = 15.000$	$R = 40.000$	
		$SE = 0.060$	$SE = 0.080$	$SE = 0.070$				
			$RO = 64$	$RO = 42$				



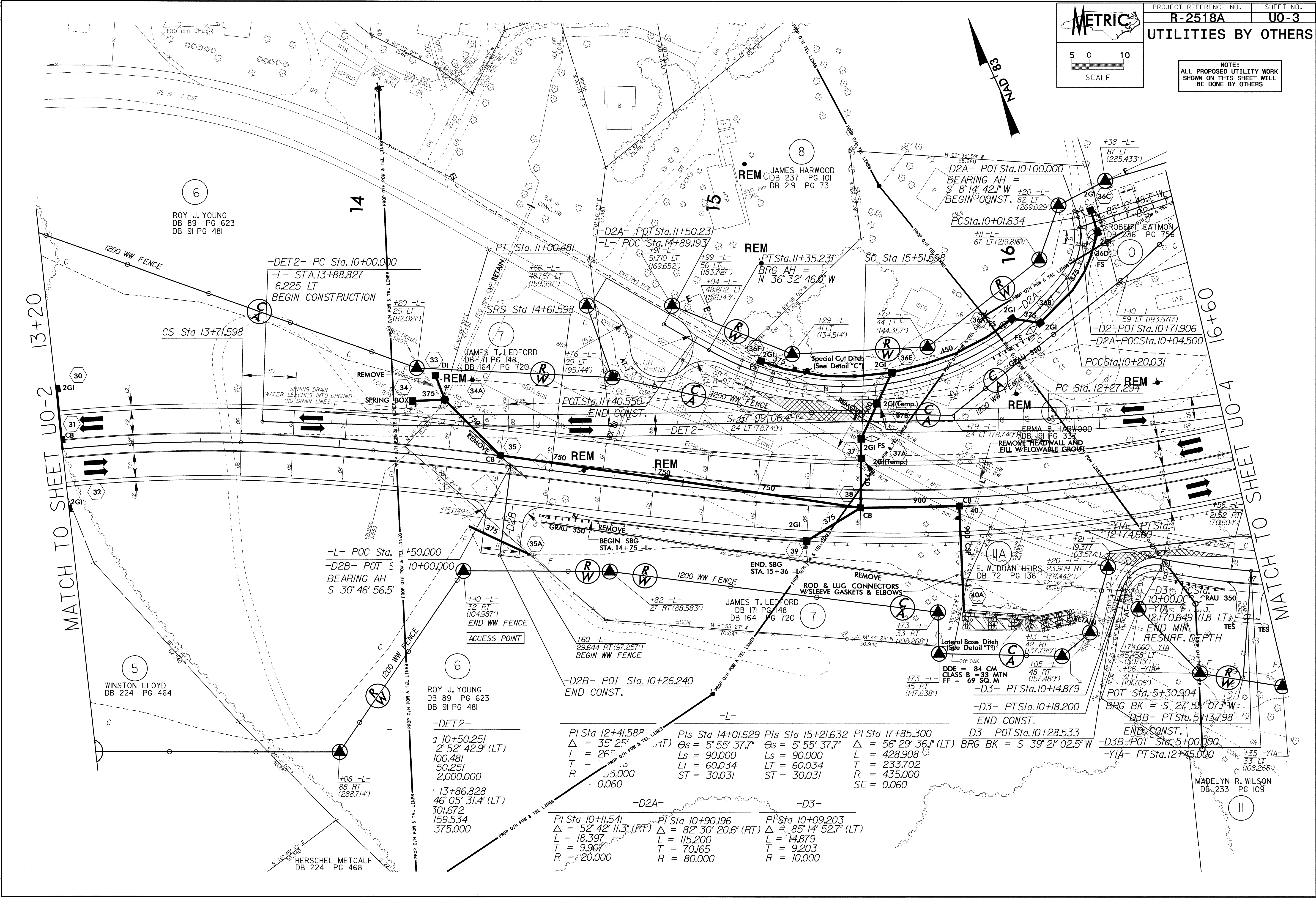
MATCH TO SHEET 4-A 10+00

MATCH TO SHEET U0-3 13+20

20-AUG-2007 16:49
 C:\Users\psh\Documents\Projects\2518a_ut_04_uo02_psh.dgn
 8/17/09



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



MATCH TO SHEET U0-2 13+20

MATCH TO SHEET U0-4 16+60

ROY J. YOUNG
 DB 89 PG 623
 DB 91 PG 481

-DET2-
 1 10+50.251
 Δ = 2° 52' 42.9" (LT)
 L = 100.481
 T = 50.251
 R = 2,000.000

13+86.828
 Δ = 46° 05' 31.4" (LT)
 L = 301.672
 T = 159.534
 R = 375.000

PI Sta 12+41.58P
 Δ = 35° 25' (RT)
 L = 26.000
 T = 13.000
 R = 35.000

PI Sta 14+01.629
 Δ = 5° 55' 37.7" (RT)
 Ls = 90.000
 T = 60.034
 R = 30.031

PIs Sta 15+21.632
 Δ = 5° 55' 37.7" (RT)
 Ls = 90.000
 T = 60.034
 R = 30.031

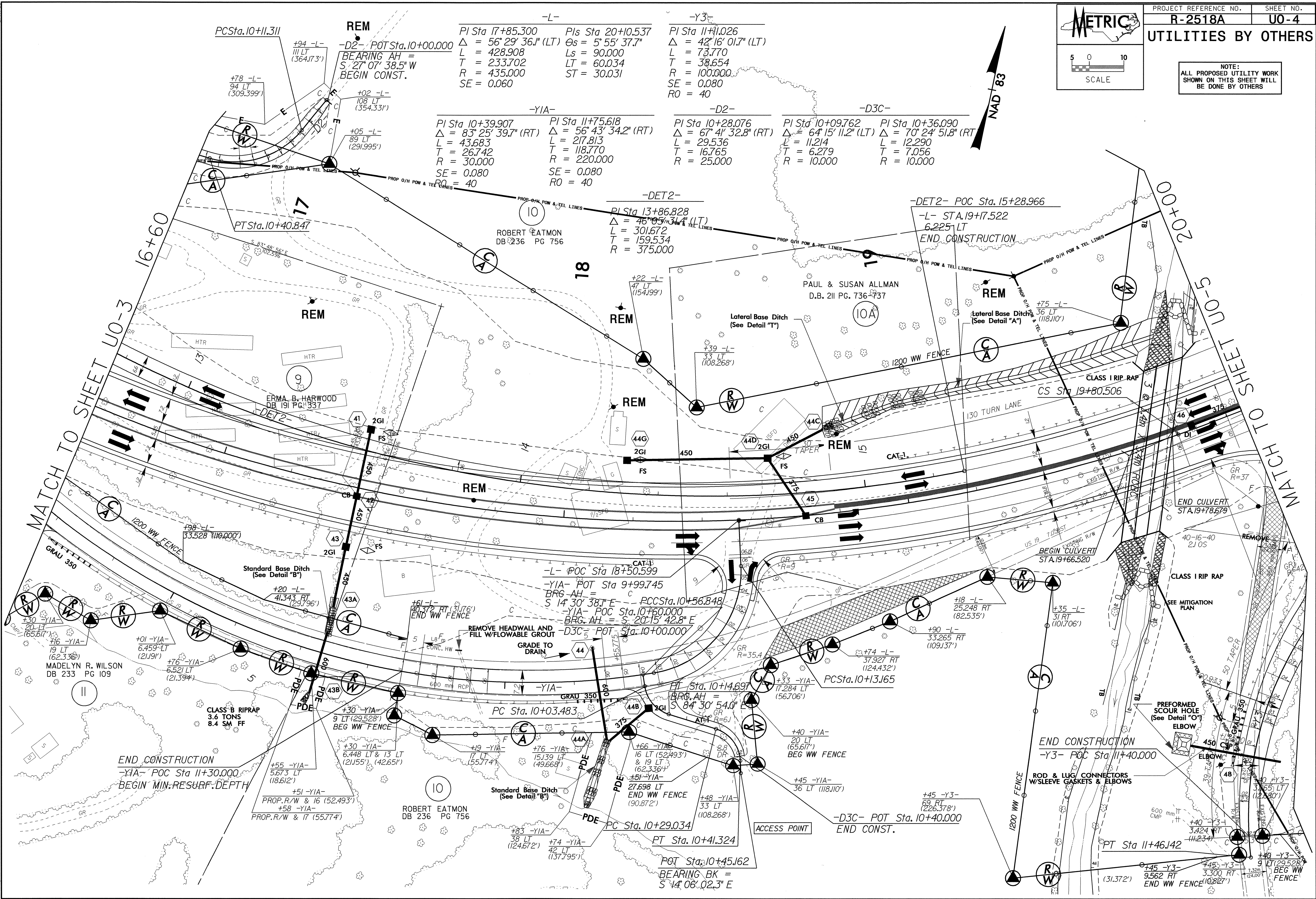
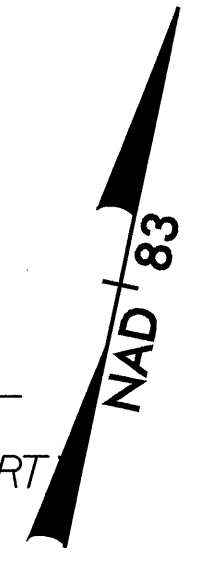
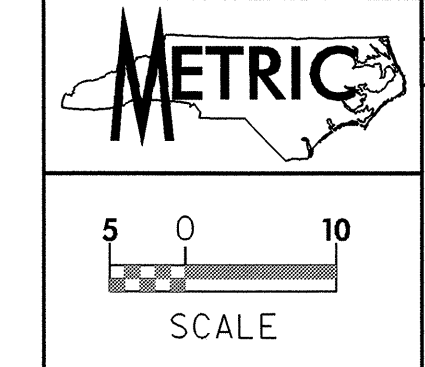
PI Sta 17+85.300
 Δ = 56° 29' 36.1" (LT)
 L = 428.908
 T = 233.702
 R = 435.000
 SE = 0.060

-D2A-
 PI Sta 10+11.541
 Δ = 52° 42' 11.3" (RT)
 L = 18.397
 T = 9.907
 R = 20.000

PI Sta 10+90.196
 Δ = 82° 30' 20.6" (RT)
 L = 115.200
 T = 70.165
 R = 80.000

-D3-
 PI Sta 10+09.203
 Δ = 85° 14' 52.7" (LT)
 L = 14.879
 T = 9.203
 R = 10.000

23-AUG-2007 10:30
 C:\Users\psh\Documents\2518a_ut_05_uo03_psh.dgn
 8/17/07



-L- PI Sta 17+85.300 $\Delta = 56^\circ 29' 36.1''$ (LT) $L = 428.908$ $T = 233.702$ $R = 435.000$ $SE = 0.060$	-Y3- PIs Sta 20+10.537 $\Delta = 5^\circ 55' 37.7''$ $L = 90.000$ $LT = 60.034$ $ST = 30.031$	-Y3- PI Sta 11+10.26 $\Delta = 42^\circ 16' 01.7''$ (LT) $L = 73.770$ $T = 38.654$ $R = 100.000$ $SE = 0.080$ $RO = 40$
-Y1A- PI Sta 10+39.907 $\Delta = 83^\circ 25' 39.7''$ (RT) $L = 43.683$ $T = 26.742$ $R = 30.000$ $SE = 0.080$ $RO = 40$	-Y1A- PI Sta 11+75.618 $\Delta = 56^\circ 43' 34.2''$ (RT) $L = 217.813$ $T = 118.770$ $R = 220.000$ $SE = 0.080$ $RO = 40$	-D2- PI Sta 10+28.076 $\Delta = 67^\circ 41' 32.8''$ (RT) $L = 29.536$ $T = 16.765$ $R = 25.000$
-DET2- PI Sta 13+86.828 $\Delta = 46^\circ 09' 34.4''$ (LT) $L = 301.672$ $T = 159.534$ $R = 375.000$	-D2- PI Sta 10+09.762 $\Delta = 64^\circ 15' 11.2''$ (LT) $L = 11.214$ $T = 6.279$ $R = 10.000$	-D3C- PI Sta 10+36.090 $\Delta = 70^\circ 24' 51.8''$ (RT) $L = 12.290$ $T = 7.056$ $R = 10.000$

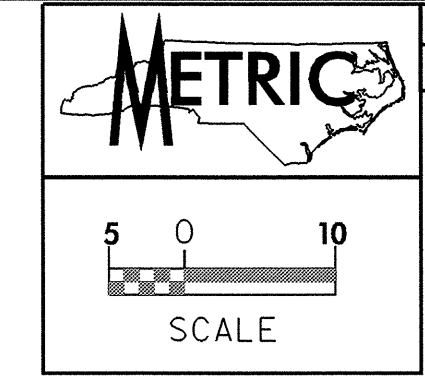
MATCH TO SHEET U0-3

MATCH TO SHEET U0-5

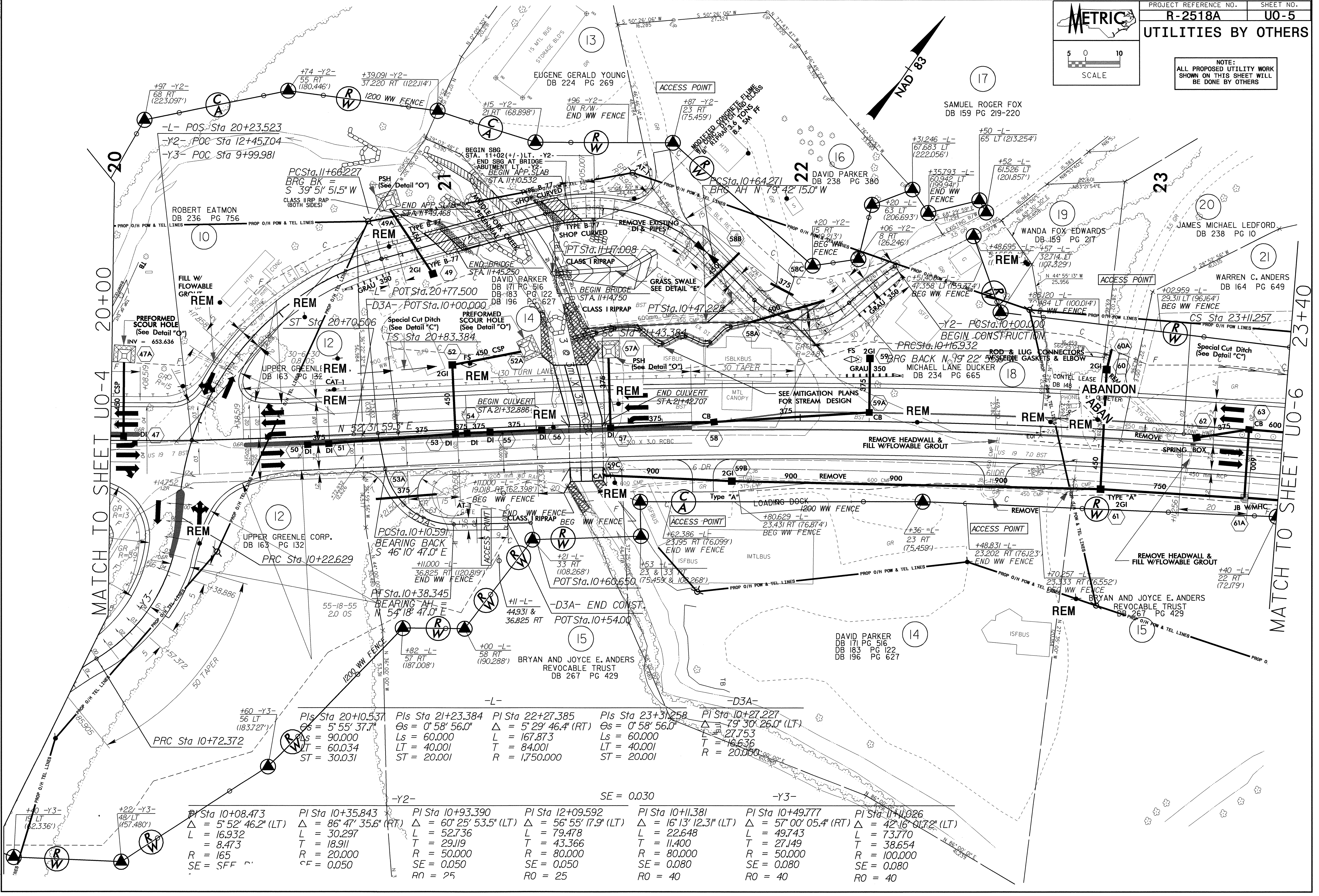
END CONSTRUCTION
 -Y1A- POC Sta 11+30.000
 BEGIN MIN. RESURF. DEPTH

END CONSTRUCTION
 -Y3- POC Sta 11+40.000

23-AUG-2007 12:44
 PS228333 8/23/2007 r2518a_ut_06_uo04_psh bohemp hill PS-Oce34dtbond

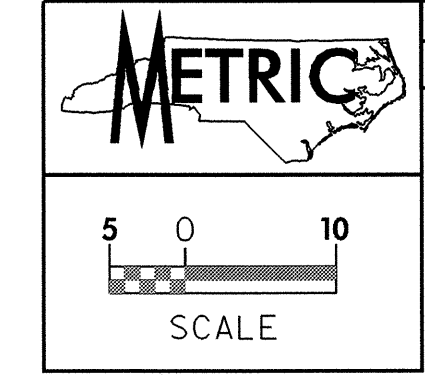


NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

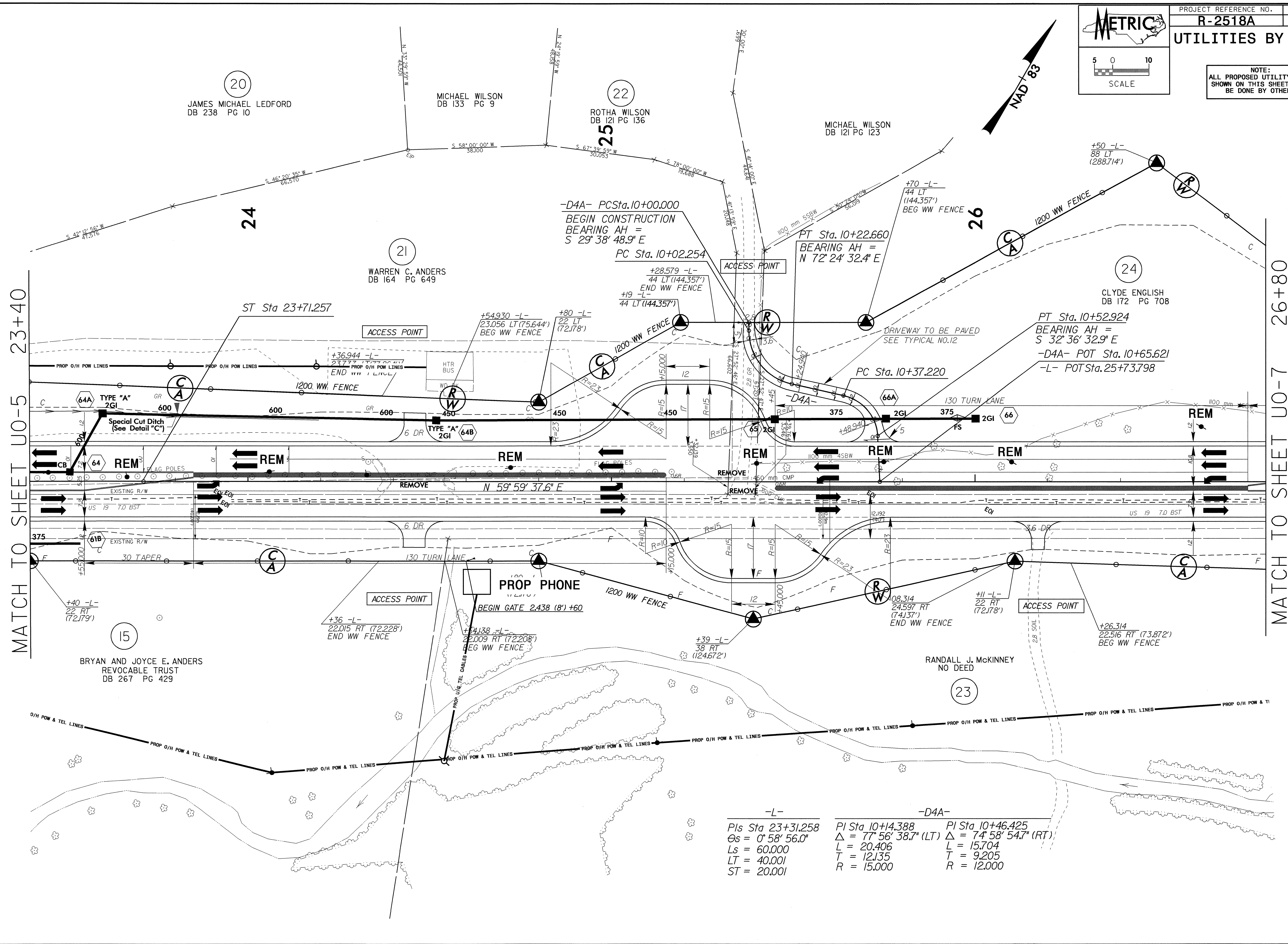


<p>PI Sta 10+08.473 $\Delta = 5^\circ 52' 46.2"$ (LT) $L = 16.932$ $L_s = 8.473$ $R = 165$ $SE = SFF$</p>	<p>PI Sta 10+35.843 $\Delta = 86^\circ 47' 35.6"$ (RT) $L = 30.297$ $T = 18.911$ $R = 20.000$ $SE = 0.050$ $CF = 0.050$</p>	<p>PI Sta 10+93.390 $\Delta = 60^\circ 25' 53.5"$ (LT) $L = 52.736$ $T = 29.119$ $R = 50.000$ $SE = 0.050$ $RO = 25$</p>	<p>PI Sta 12+09.592 $\Delta = 56^\circ 55' 17.9"$ (LT) $L = 79.478$ $T = 43.366$ $R = 80.000$ $SE = 0.050$ $RO = 25$</p>	<p>PI Sta 10+11.381 $\Delta = 16^\circ 13' 12.31"$ (LT) $L = 22.648$ $T = 11.400$ $R = 80.000$ $SE = 0.080$ $RO = 40$</p>	<p>PI Sta 10+49.777 $\Delta = 57^\circ 00' 05.4"$ (RT) $L = 49.743$ $T = 27.149$ $R = 50.000$ $SE = 0.080$ $RO = 40$</p>	<p>PI Sta 11+10.266 $\Delta = 42^\circ 16' 01.72"$ (LT) $L = 73.770$ $T = 38.654$ $R = 100.000$ $SE = 0.080$ $RO = 40$</p>
---	---	--	--	---	--	--

23-AUG-2007 12:45
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NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

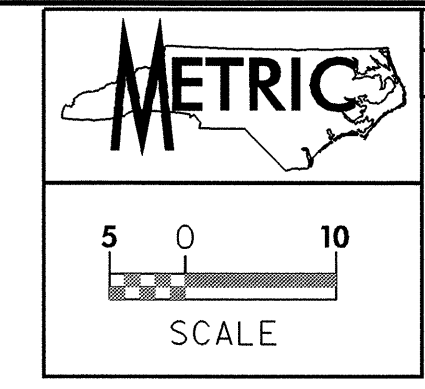


MATCH TO SHEET U0-5 23+40

MATCH TO SHEET U0-7 26+80

-L-		-D4A-	
PIs Sta 23+31.258	PI Sta 10+4.388	PI Sta 10+46.425	
$\Delta s = 0^\circ 58' 56.0''$	$\Delta = 77^\circ 56' 38.7''$ (LT)	$\Delta = 74^\circ 58' 54.7''$ (RT)	
Ls = 60.000	L = 20.406	L = 15.704	
LT = 40.001	T = 12.135	T = 9.205	
ST = 20.001	R = 15.000	R = 12.000	

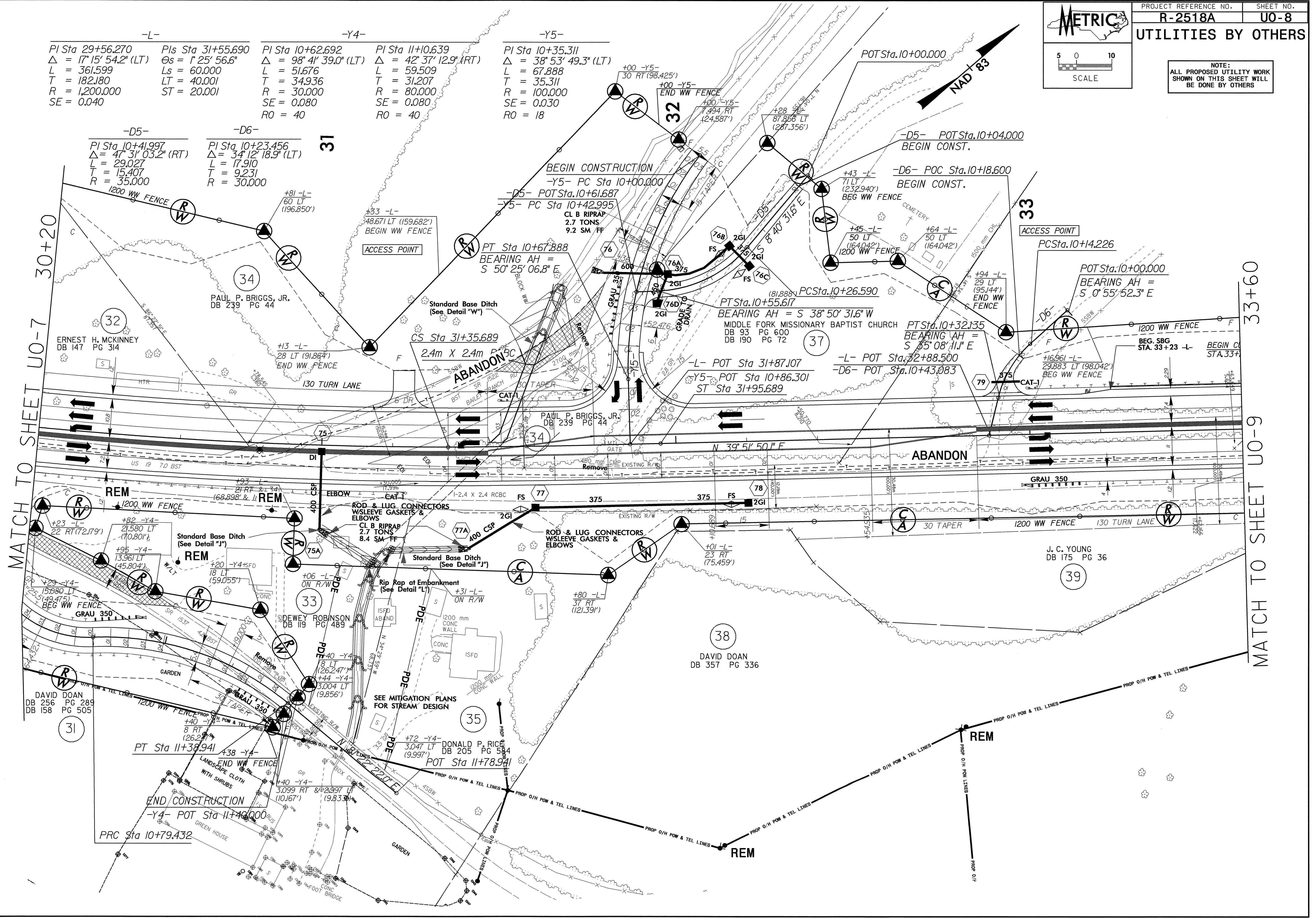
23-AUG-2007 12:17
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 bohemphill PS-Oce34dtbond



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

-L-	-Y4-	-Y5-
PI Sta 29+56.270	PI Sta 10+62.692	PI Sta 10+35.311
$\Delta = 17^{\circ} 15' 54.2" (LT)$	$\Delta = 98^{\circ} 41' 39.0" (LT)$	$\Delta = 38^{\circ} 53' 49.3" (LT)$
L = 361.599	L = 51.676	L = 67.888
T = 182.180	T = 34.936	T = 35.311
R = 1,200.000	R = 30.000	R = 100.000
SE = 0.040	SE = 0.080	SE = 0.030
	RO = 40	RO = 18

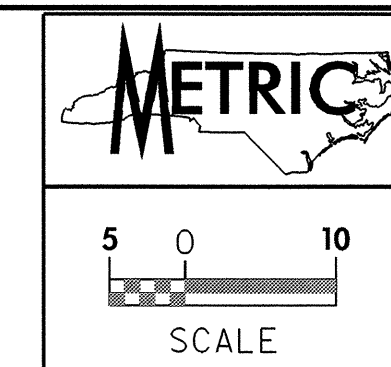
-D5-	-D6-
PI Sta 10+41.997	PI Sta 10+23.456
$\Delta = 47^{\circ} 31' 03.2" (RT)$	$\Delta = 34^{\circ} 12' 18.9" (LT)$
L = 29.027	L = 17.910
T = 15.407	T = 9.231
R = 35.000	R = 30.000



MATCH TO SHEET U0-7

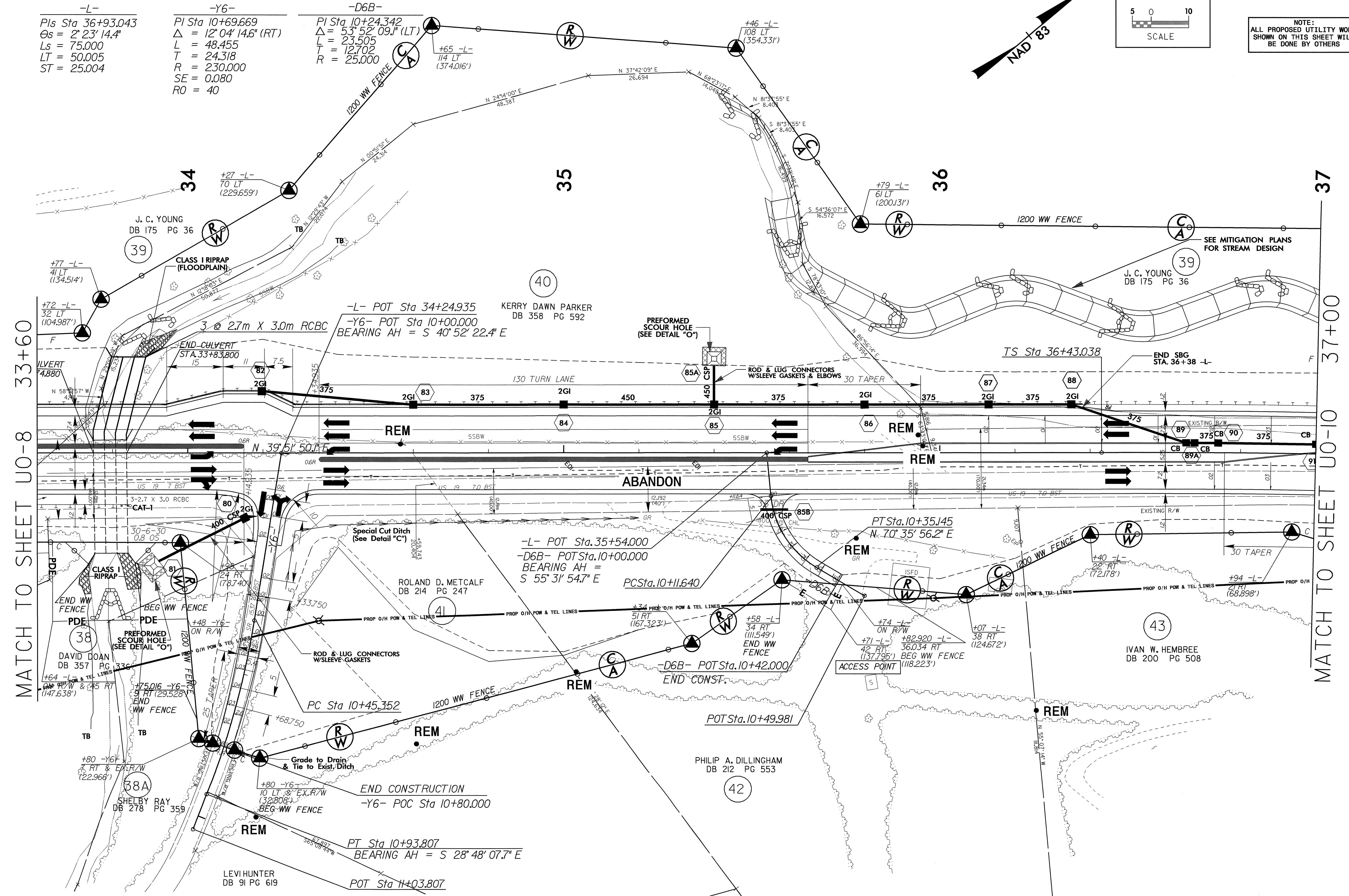
MATCH TO SHEET U0-9

23-AUG-2007 12:56
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 8/27/07



UTILITIES BY OTHERS

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



MATCH TO SHEET U0-8 33+60

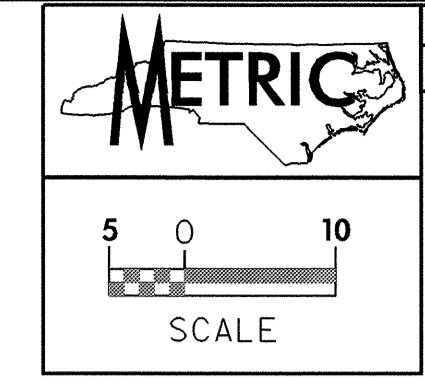
MATCH TO SHEET U0-10 37+00

-L-
PI Sta 36+93.043
θs = 2° 23' 14.4"
Ls = 75.000
LT = 50.005
ST = 25.004

-Y6-
PI Sta 10+69.669
Δ = 12° 04' 14.6" (RT)
L = 48.455
T = 24.318
R = 230.000
SE = 0.080
RO = 40

-D6B-
PI Sta 10+24.342
Δ = 53° 52' 09.1" (LT)
L = 23.505
T = 12.702
R = 25.000

23-AUG-2007 15:06
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PS228333 8/23/2007 r2518a_ut_11_uo09_psh bohemp hill PS-Oce34dtbond

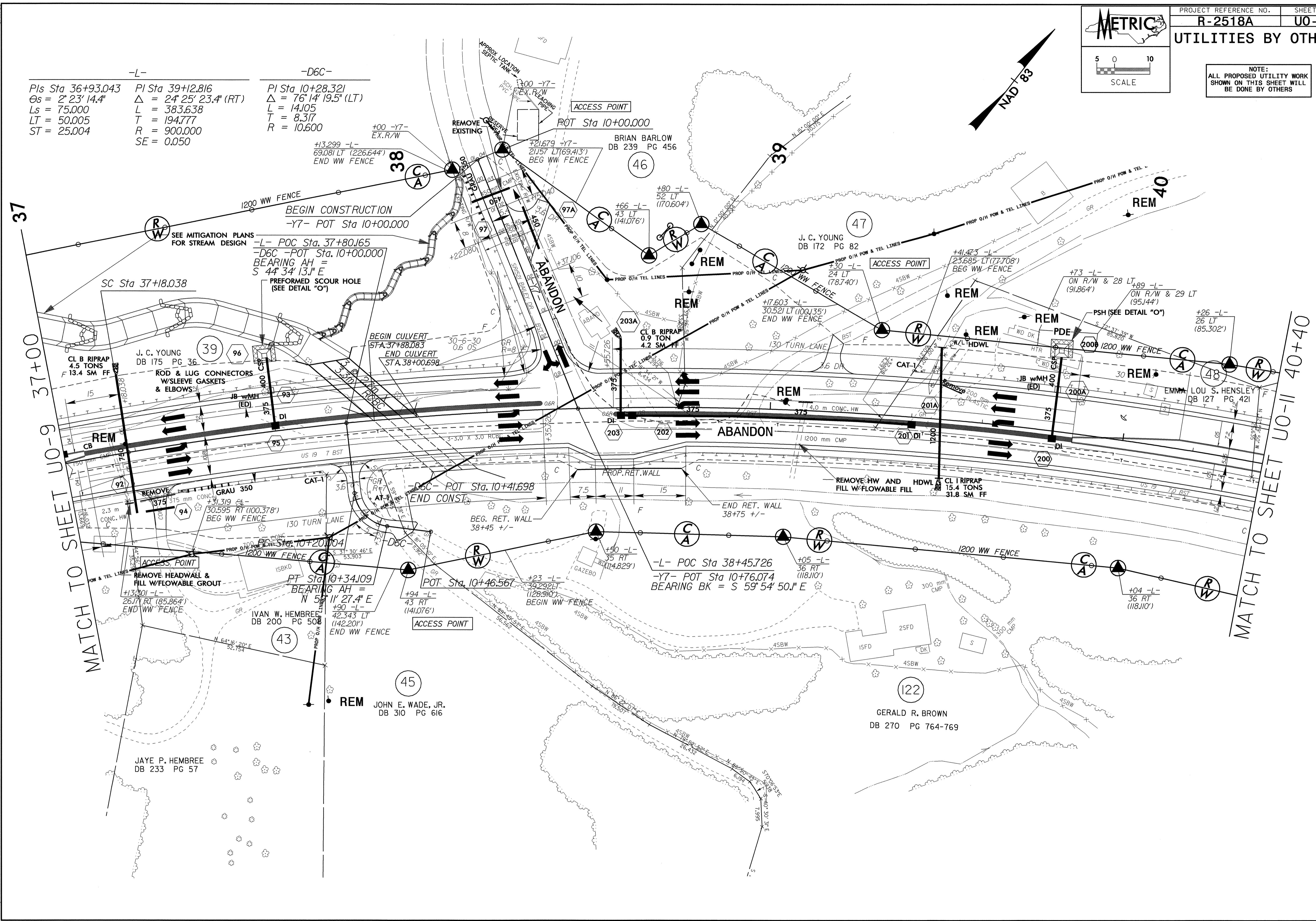


NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

-L-
 Pls Sta 36+93.043
 Δs = 2° 23' 14.4"
 Ls = 75.000
 LT = 50.005
 ST = 25.004

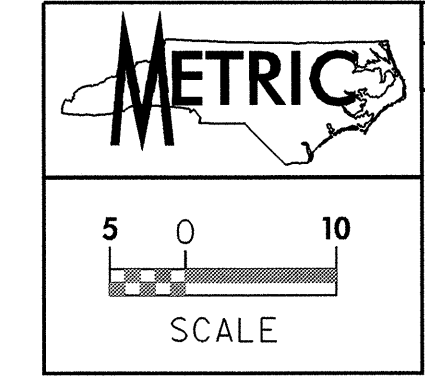
-D6C-
 Pl Sta 39+12.816
 Δ = 24° 25' 23.4" (RT)
 L = 383.638
 T = 194.777
 R = 900.000
 SE = 0.050

Pl Sta 10+28.321
 Δ = 76° 14' 19.5" (LT)
 L = 14.105
 T = 8.317
 R = 10.600



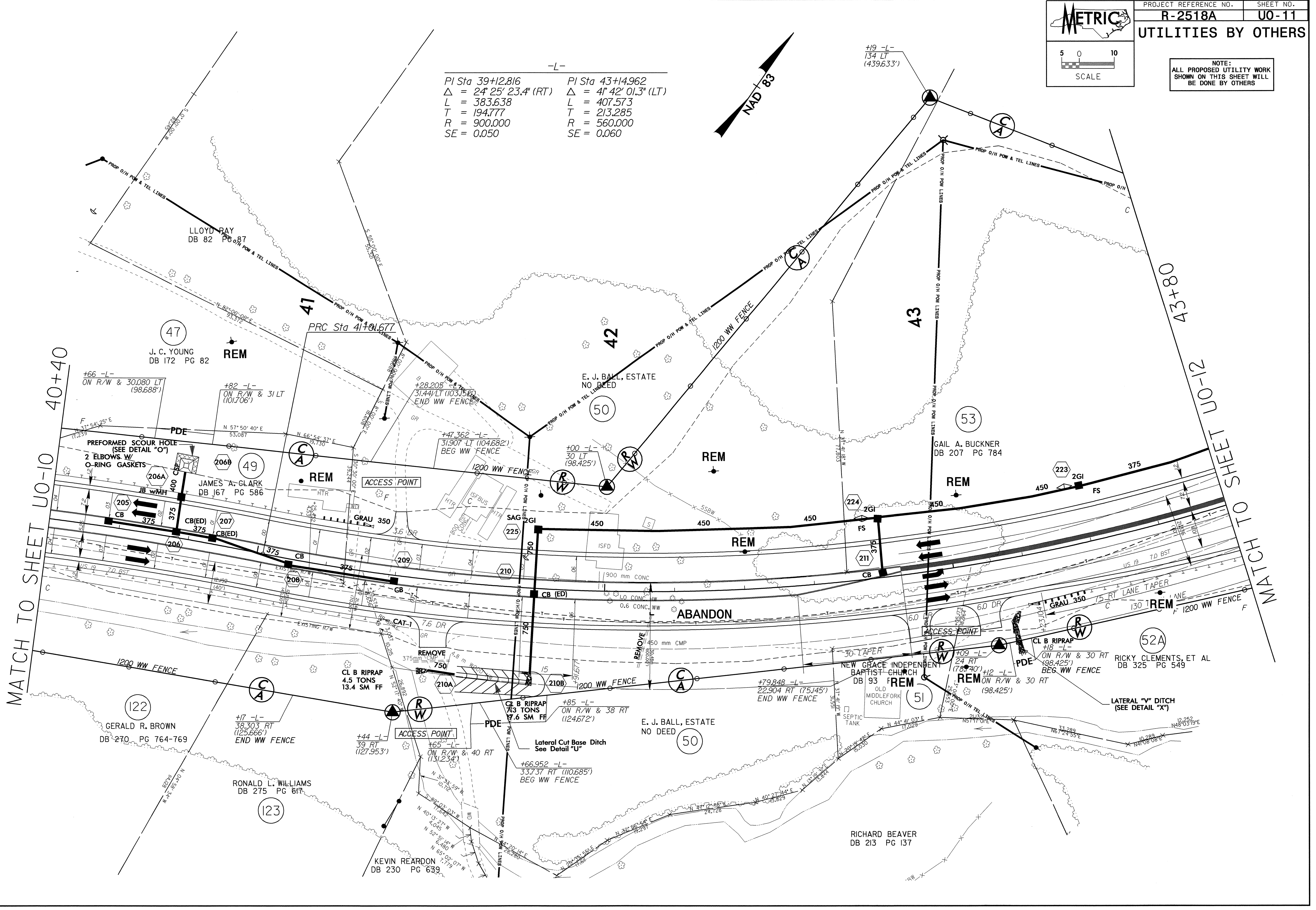
MATCH TO SHEET UO-9 37+00

MATCH TO SHEET UO-11 40+40



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

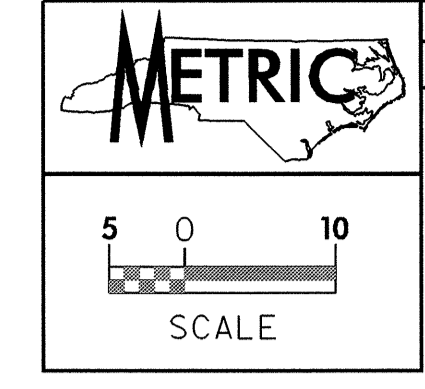
-L-
 PI Sta 39+12.816 PI Sta 43+14.962
 $\Delta = 24' 25" 23.4" (RT)$ $\Delta = 41' 42" 01.3" (LT)$
 $L = 383.638$ $L = 407.573$
 $T = 194.777$ $T = 213.285$
 $R = 900.000$ $R = 560.000$
 $SE = 0.050$ $SE = 0.060$



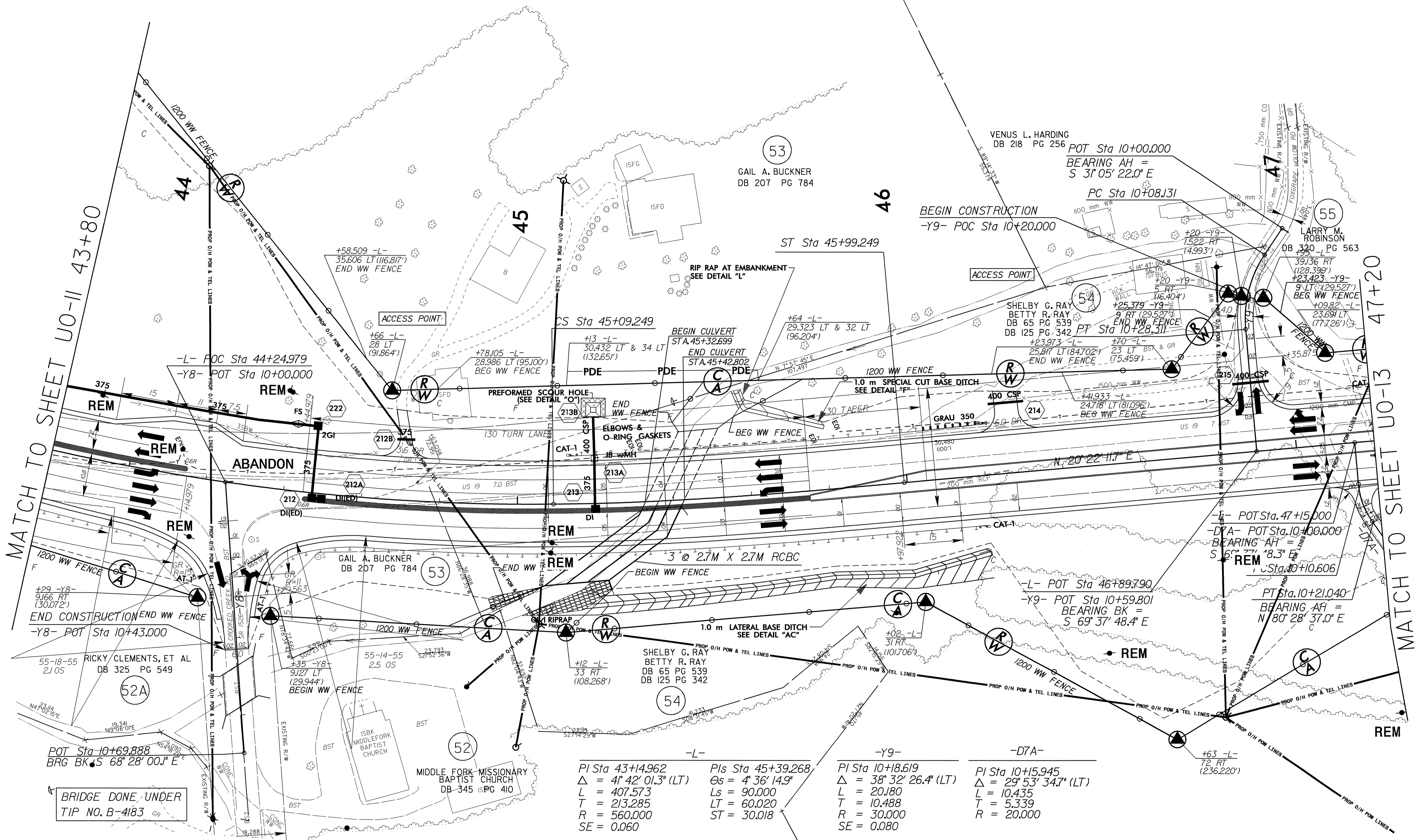
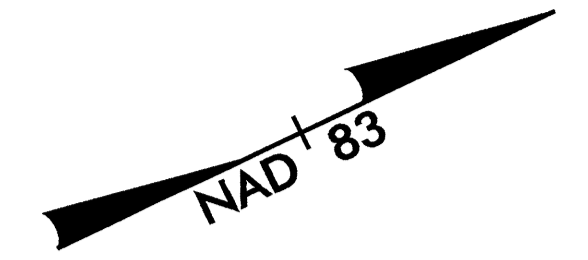
MATCH TO SHEET U0-10

MATCH TO SHEET U0-12

8/17/05
 23-AUG-2007 14:01
 C:\utilities\psh\2518a_ut_13_u011_psh.dgn
 2518a_ut_13_u011_psh.dgn
 PS228333 8/23/2007 r2518a_ut_13_u011_psh bohempfill PS-Oce34dtbond



NOTE:
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 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS



MATCH TO SHEET U0-II 43+80

MATCH TO SHEET U0-13 47+20

-L-	-Y9-	-D7A-
PI Sta 43+14.962	PI Sta 10+18.619	PI Sta 10+15.945
$\Delta = 41^{\circ} 42' 01.3''$ (LT)	$\Delta = 38^{\circ} 32' 26.4''$ (LT)	$\Delta = 29^{\circ} 53' 34.7''$ (LT)
L = 407.573	L = 20.180	L = 10.435
T = 213.285	T = 10.488	T = 5.339
R = 560.000	R = 30.000	R = 20.000
SE = 0.060	SE = 0.080	

BRIDGE DONE UNDER
 TIP NO. B-4183

23-AUG-2007 14:19
 C:\naill\psh\ch\psh\2518a_ut_14_uo12_psh.dgn
 bohemphill PS-Oce34dtbond

8/17/08

METRIC

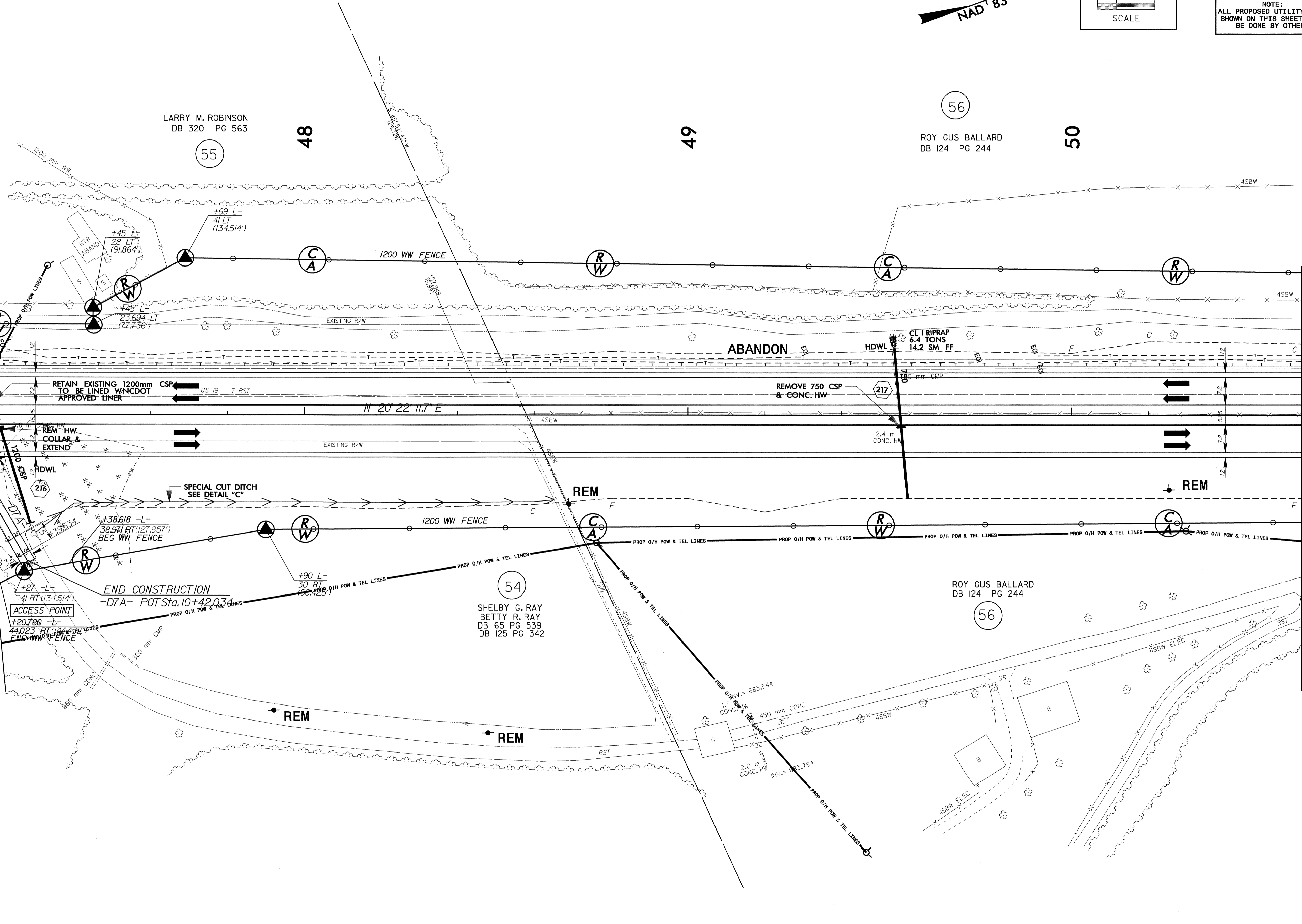
SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2518A	U0-13
UTILITIES BY OTHERS	

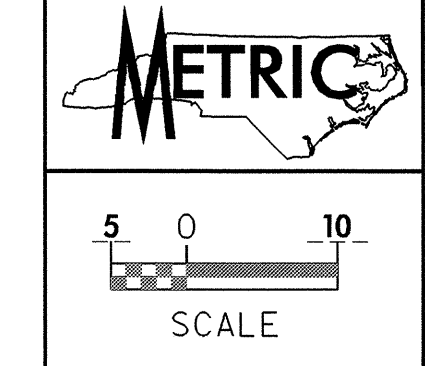
NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

MATCH TO SHEET U0-12 47+20

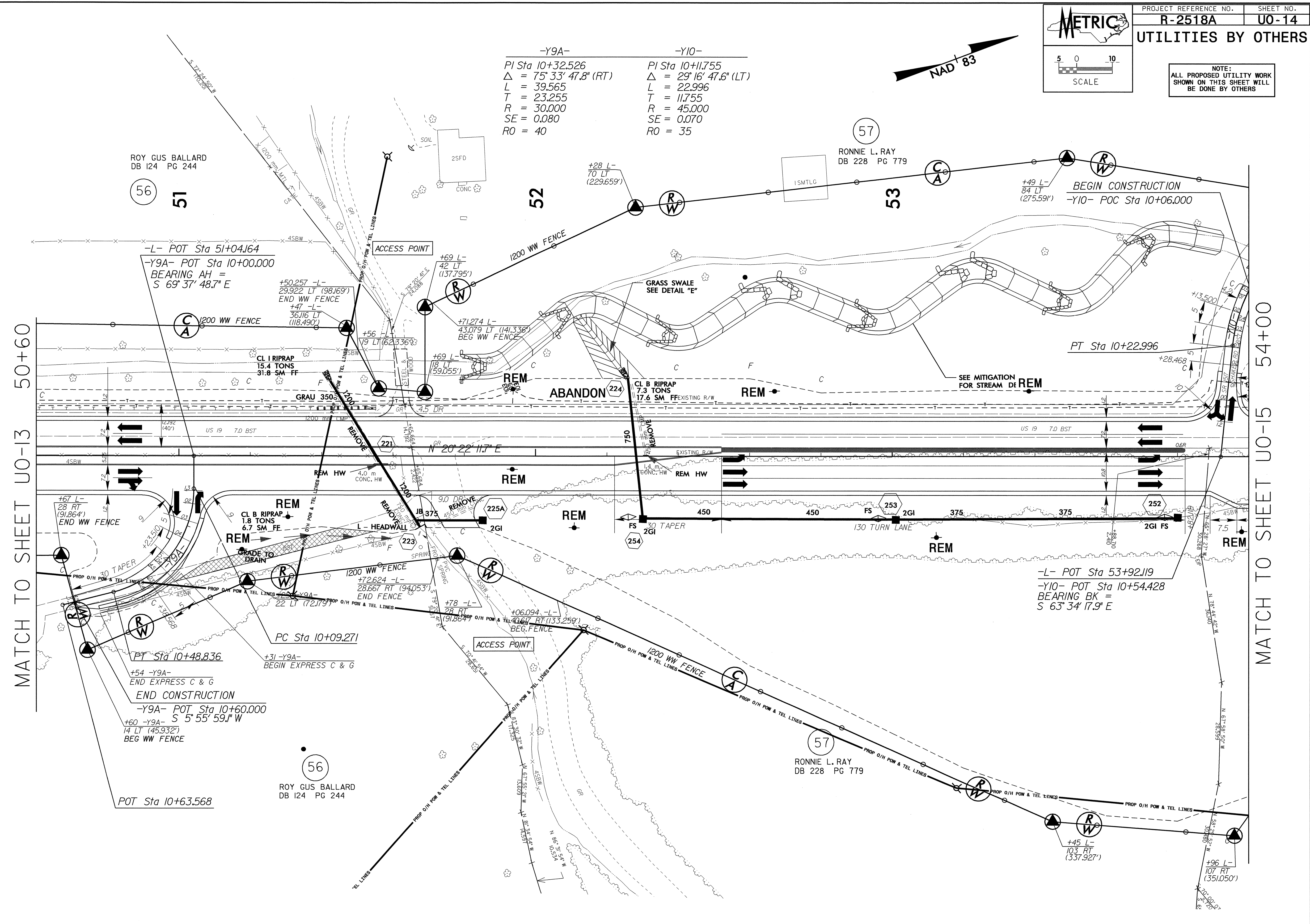
MATCH TO SHEET U0-14 50+60



23-AUG-2007 14:59
c:\n\h\p\ps\2518a_ut_15_u013_psh.dgn



-Y9A-	-Y10-
PI Sta 10+32.526	PI Sta 10+11.755
$\Delta = 75^\circ 33' 47.8''$ (RT)	$\Delta = 29^\circ 16' 47.6''$ (LT)
L = 39.565	L = 22.996
T = 23.255	T = 11.755
R = 30.000	R = 45.000
SE = 0.080	SE = 0.070
RO = 40	RO = 35

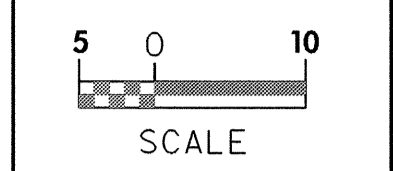
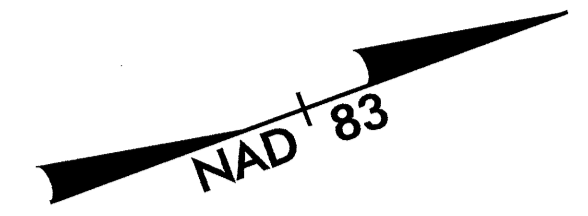


MATCH TO SHEET U0-13 50+60

MATCH TO SHEET U0-15 54+00

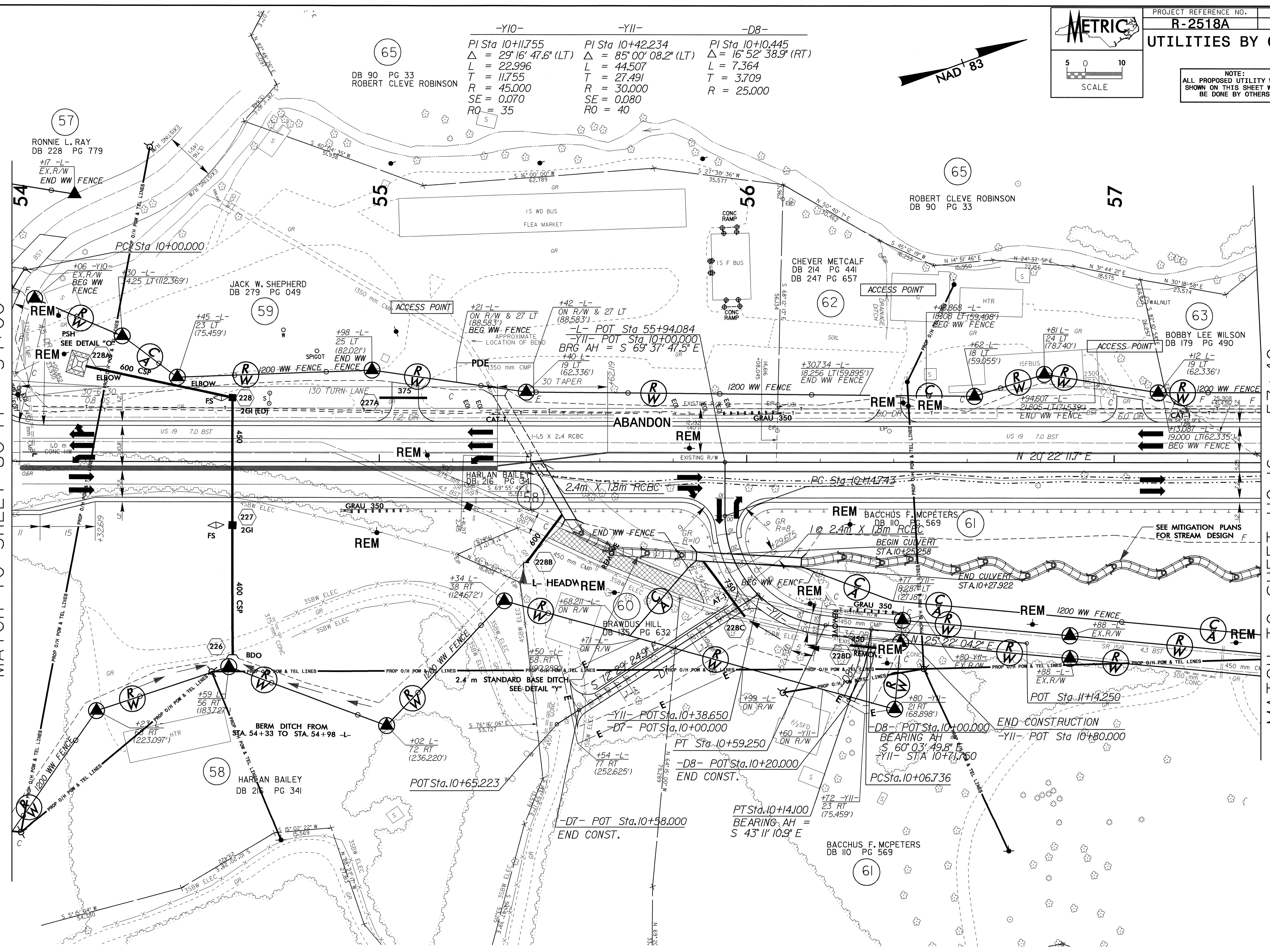
23-AUG-2007 15:11
 C:\naill\p\2518a_ut_16_u014_psh.dgn
 11/25/2007 11:11:11 AM

-Y10-	-Y11-	-D8-
PI Sta 10+11.755	PI Sta 10+42.234	PI Sta 10+10.445
$\Delta = 29^{\circ}16'47.6''$ (LT)	$\Delta = 85^{\circ}00'08.2''$ (LT)	$\Delta = 16^{\circ}52'38.9''$ (RT)
L = 22.996	L = 44.507	L = 7.364
T = 11.755	T = 27.491	T = 3.709
R = 45.000	R = 30.000	R = 25.000
SE = 0.070	SE = 0.080	
RO = 35	RO = 40	

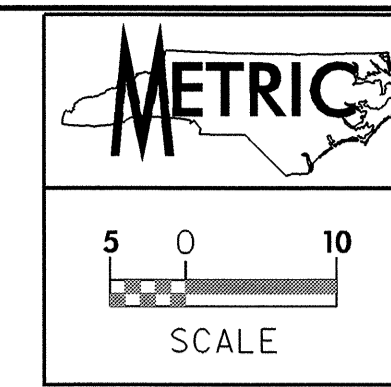


MATCH TO SHEET U0-14 54+00

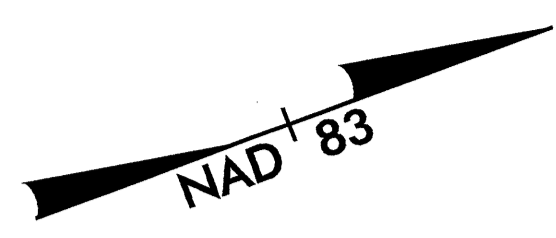
MATCH TO SHEET U0-16 57+40



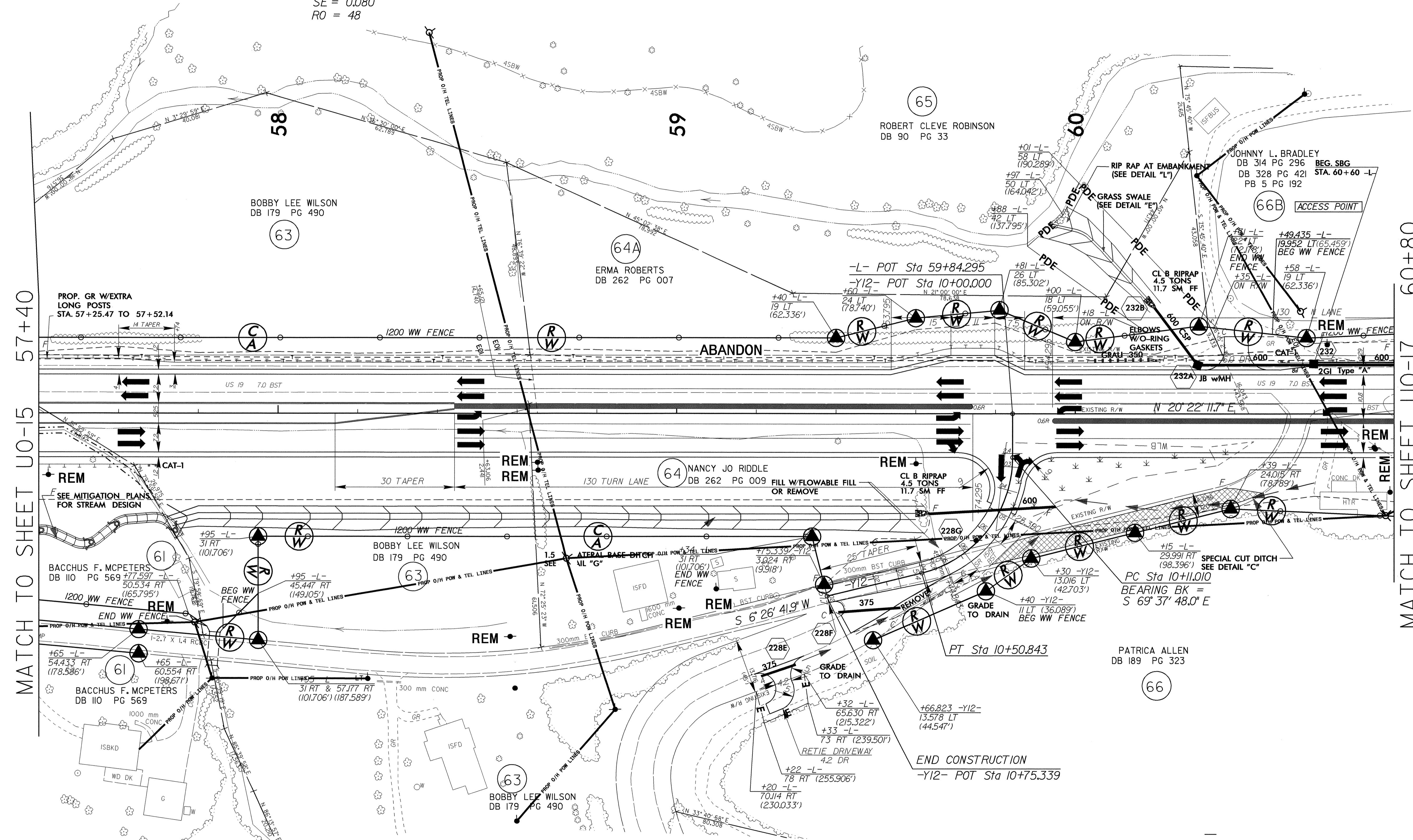
23-AUG-2007 15:40
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 2518a_ut17_uo15_psh.dgn



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



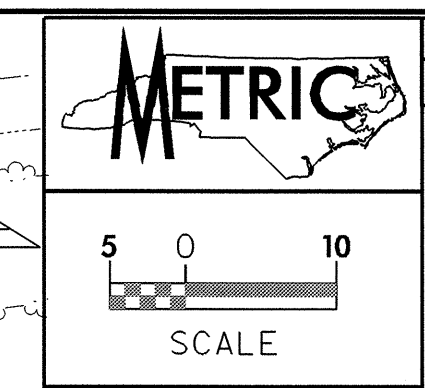
-Y12-
 PI Sta 10+34.480
 $\Delta = 76^{\circ} 04' 29.8''$ (RT)
 L = 39.833
 T = 23.470
 R = 30.000
 SE = 0.080
 RO = 48



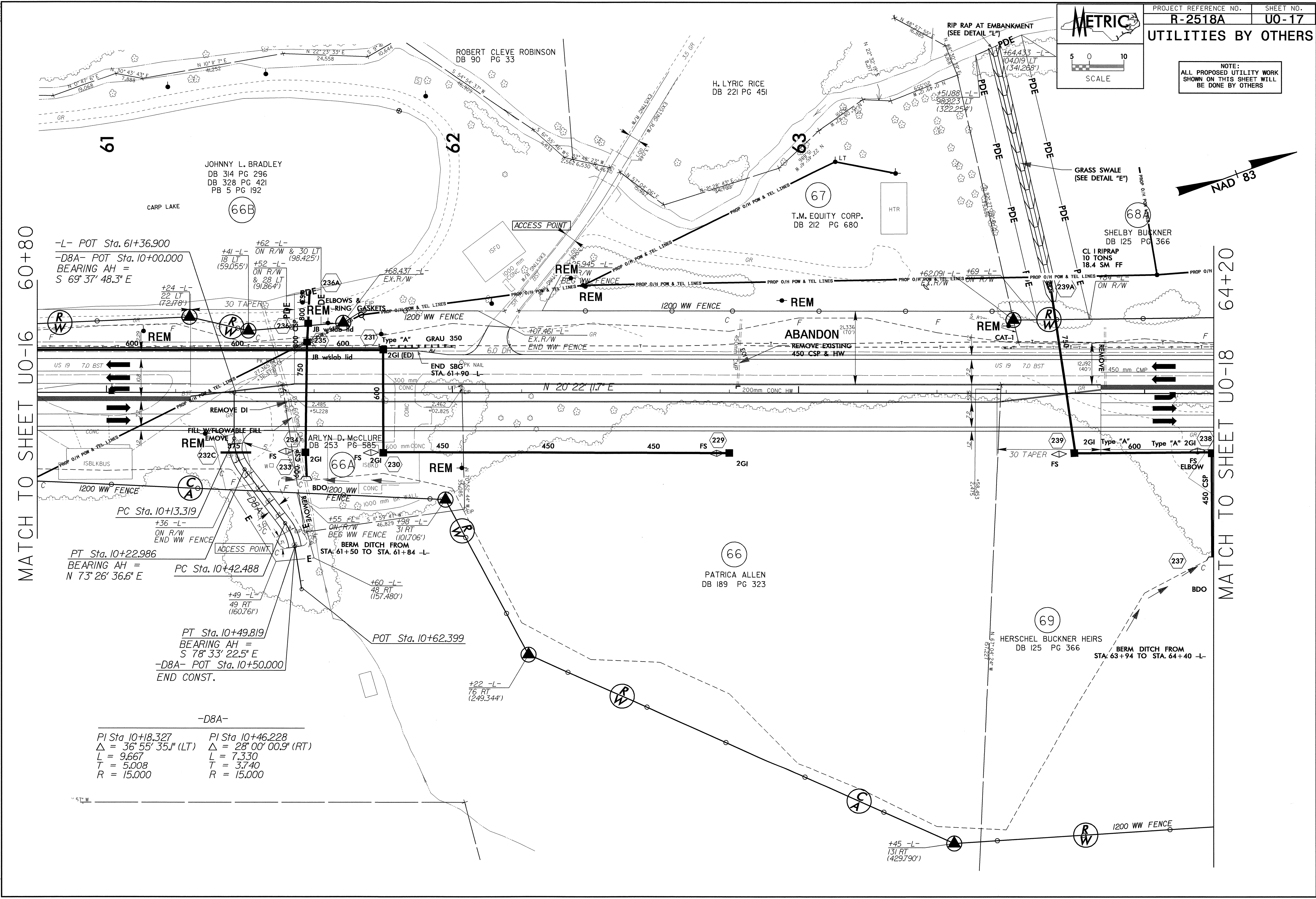
MATCH TO SHEET UO-15 57+40

MATCH TO SHEET UO-17 60+80

23-AUG-2007 15:51
 P:\Utilities\2518a_ut_18_uo16_psh.dgn
 bohempshill AT 15:52:03



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



MATCH TO SHEET U0-6 60+80

MATCH TO SHEET U0-18 64+20

-L- POT Sta. 61+36.900
 -DBA- POT Sta. 10+00.000
 BEARING AH =
 S 69° 37' 48.3" E

+24 -L-
 22 LT
 (72.178')

US 19 T.O. BST

REMOVE DI

PC Sta. 10+13.319
 +36 -L-
 ON R/W
 END WW FENCE

PT Sta. 10+22.986
 BEARING AH =
 N 73° 26' 36.6" E

PC Sta. 10+42.488

PT Sta. 10+49.819
 BEARING AH =
 S 78° 33' 22.5" E
 -DBA- POT Sta. 10+50.000
 END CONST.

-DBA-
 PI Sta. 10+18.327
 Δ = 36° 55' 35.1" (LT)
 L = 9.667
 T = 5.008
 R = 15.000

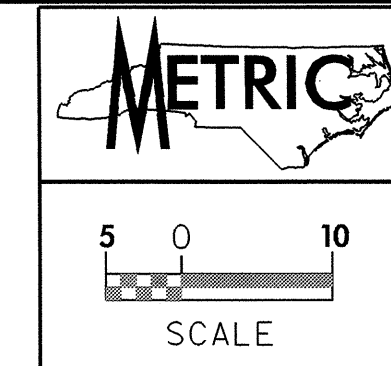
PI Sta. 10+46.228
 Δ = 28° 00' 00.9" (RT)
 L = 7.330
 T = 3.740
 R = 15.000

POT Sta. 10+62.399

+22 -L-
 76 RT
 (249.344')

+45 -L-
 131 RT
 (429.790')

23-AUG-2007 16:44
 C:\nautilus\psh\2518a-ut_19_uo17_psh.dgn



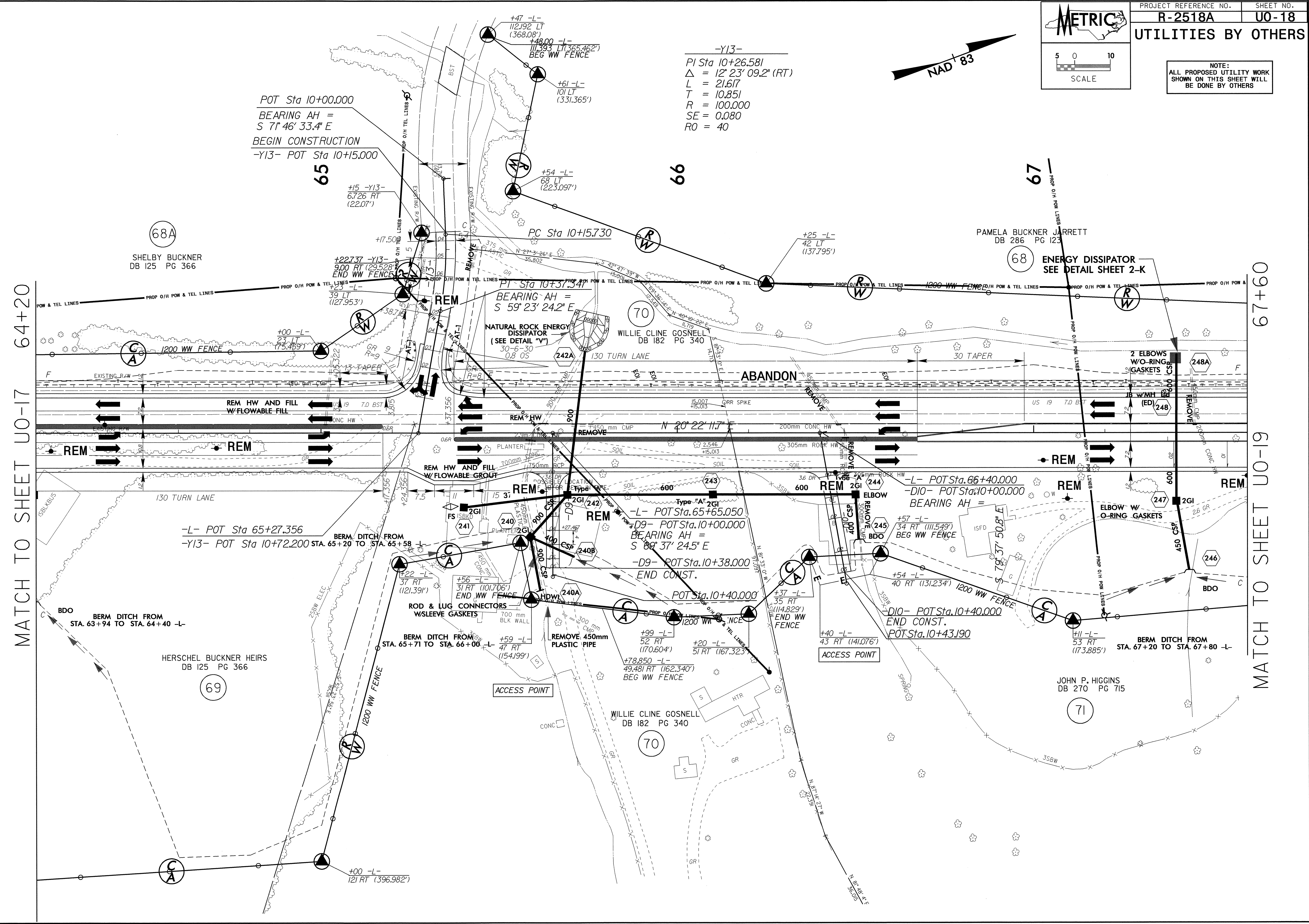
UTILITIES BY OTHERS

NOTE:
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SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



-Y13-
PI Sta 10+26.581
 $\Delta = 12^{\circ} 23' 09.2''$ (RT)
L = 21.617
T = 10.851
R = 100.000
SE = 0.080
RO = 40

POT Sta 10+00.000
BEARING AH =
S 71° 46' 33.4" E
BEGIN CONSTRUCTION
-Y13- POT Sta 10+15.000



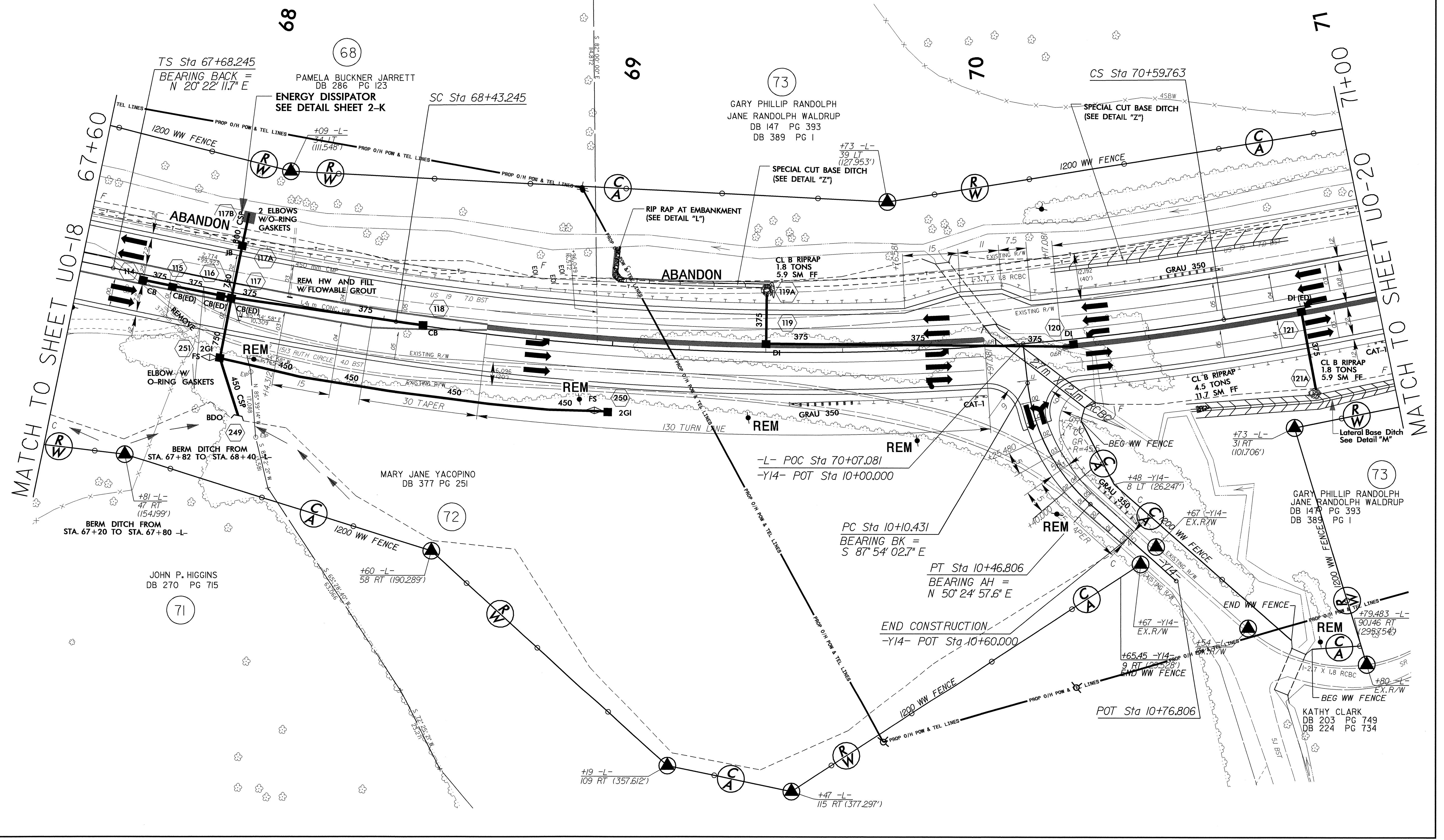
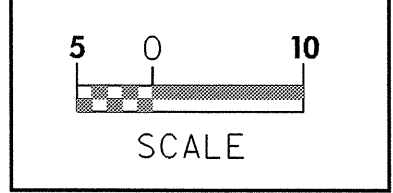
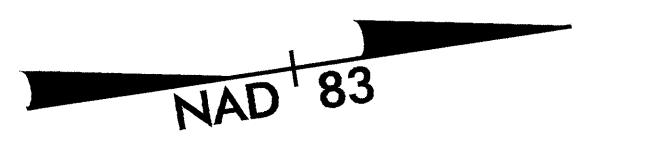
MATCH TO SHEET UO-17 64+20

MATCH TO SHEET UO-19 67+60

23-AUG-2007 16:25
C:\Users\hphill\Documents\2518a_ut_20_uo18_psh.bohemphill PS-Oce34dtbond

-L-

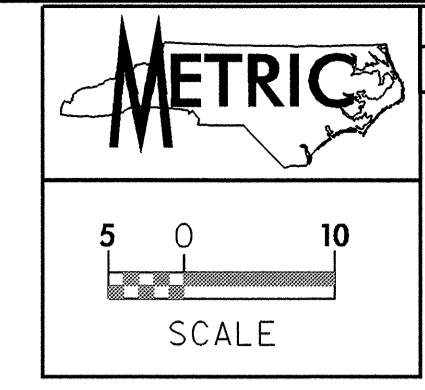
Pls Sta 68+18.253	PI Sta 69+52.375	Pls Sta 70+84.769	-Y14-
$\Delta s = 3^{\circ} 04' 09.9"$	$\Delta = 17^{\circ} 43' 19.8" (LT)$	$\Delta s = 3^{\circ} 04' 09.9"$	PI Sta 10+29.466
$Ls = 75.000$	$L = 216.517$	$Ls = 75.000$	$\Delta = 41^{\circ} 40' 59.7" (LT)$
$LT = 50.008$	$T = 109.130$	$LT = 50.007$	$L = 36.376$
$ST = 25.007$	$R = 700.000$	$ST = 25.007$	$T = 19.035$
	$SE = 0.050$		$R = 50.000$
			$SE = 0.080$
			$RO = 40$



MATCH TO SHEET U0-18

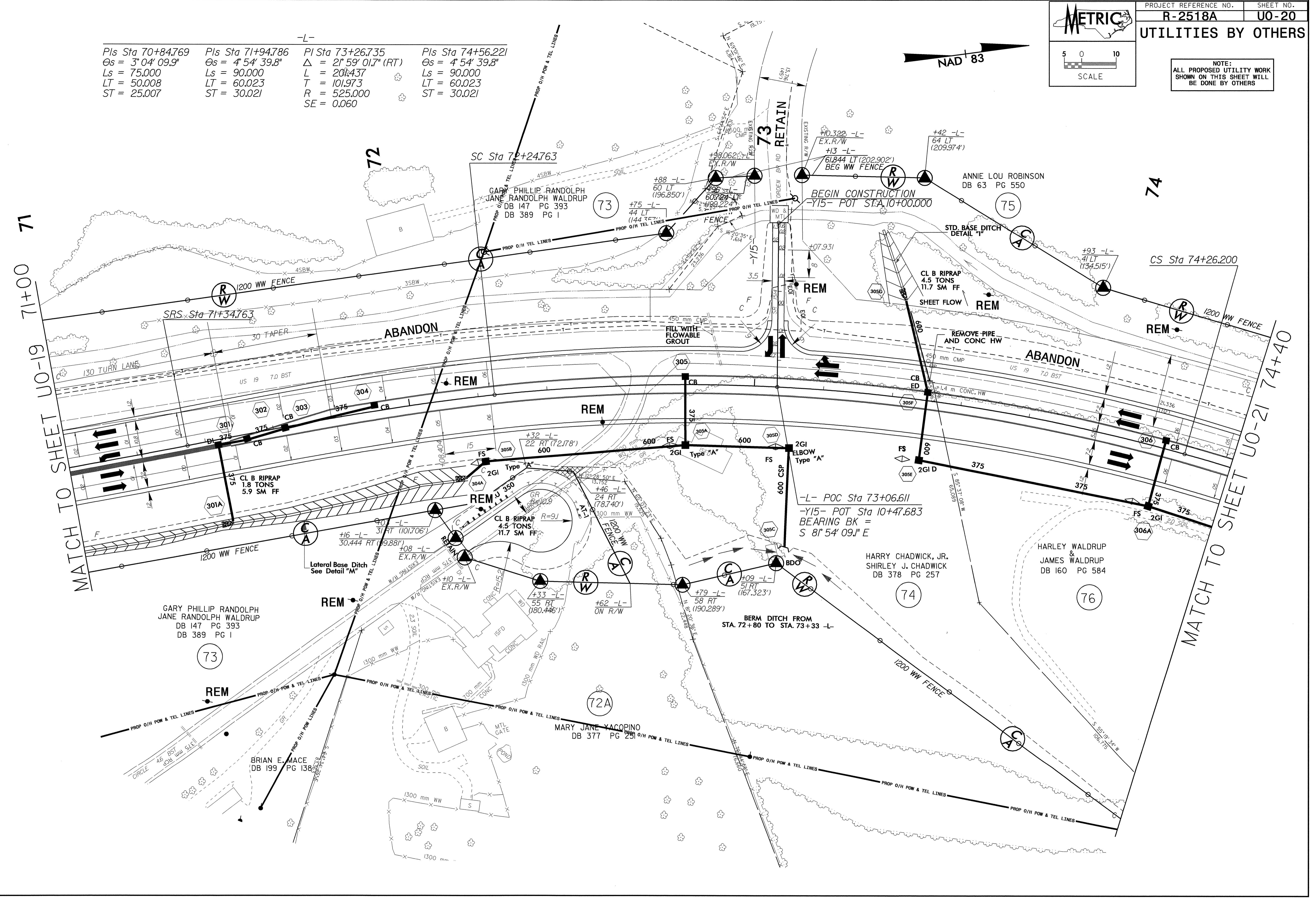
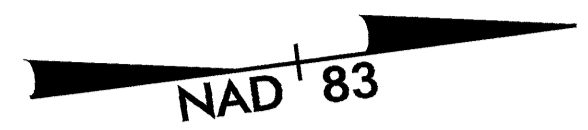
MATCH TO SHEET U0-20

23-AUG-2007 17:00
 C:\net\11\psh\11\2518a_ut_21_u019_psh.dgn
 bohemphill



NOTE:
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 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

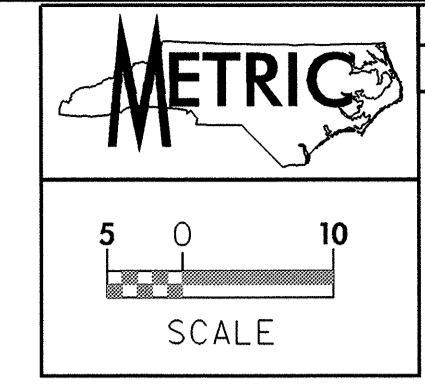
-L-			
Pls Sta 70+84.769	Pls Sta 71+94.786	Pl Sta 73+26.735	Pls Sta 74+56.221
$\Theta_s = 3^{\circ} 04' 09.9''$	$\Theta_s = 4^{\circ} 54' 39.8''$	$\Delta = 21^{\circ} 59' 01.7''$ (RT)	$\Theta_s = 4^{\circ} 54' 39.8''$
$L_s = 75.000$	$L_s = 90.000$	$L = 201.437$	$L_s = 90.000$
$LT = 50.008$	$LT = 60.023$	$T = 101.973$	$LT = 60.023$
$ST = 25.007$	$ST = 30.021$	$R = 525.000$	$ST = 30.021$
		$SE = 0.060$	



MATCH TO SHEET UO-19 71+00 71

MATCH TO SHEET UO-21 74+40

23-AUG-2007 17:20
 C:\psh\hph\ps\2518a_ut_22_uo20_psh.dgn
 bohemphill PS-Oce34dtbond



NOTE:
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 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

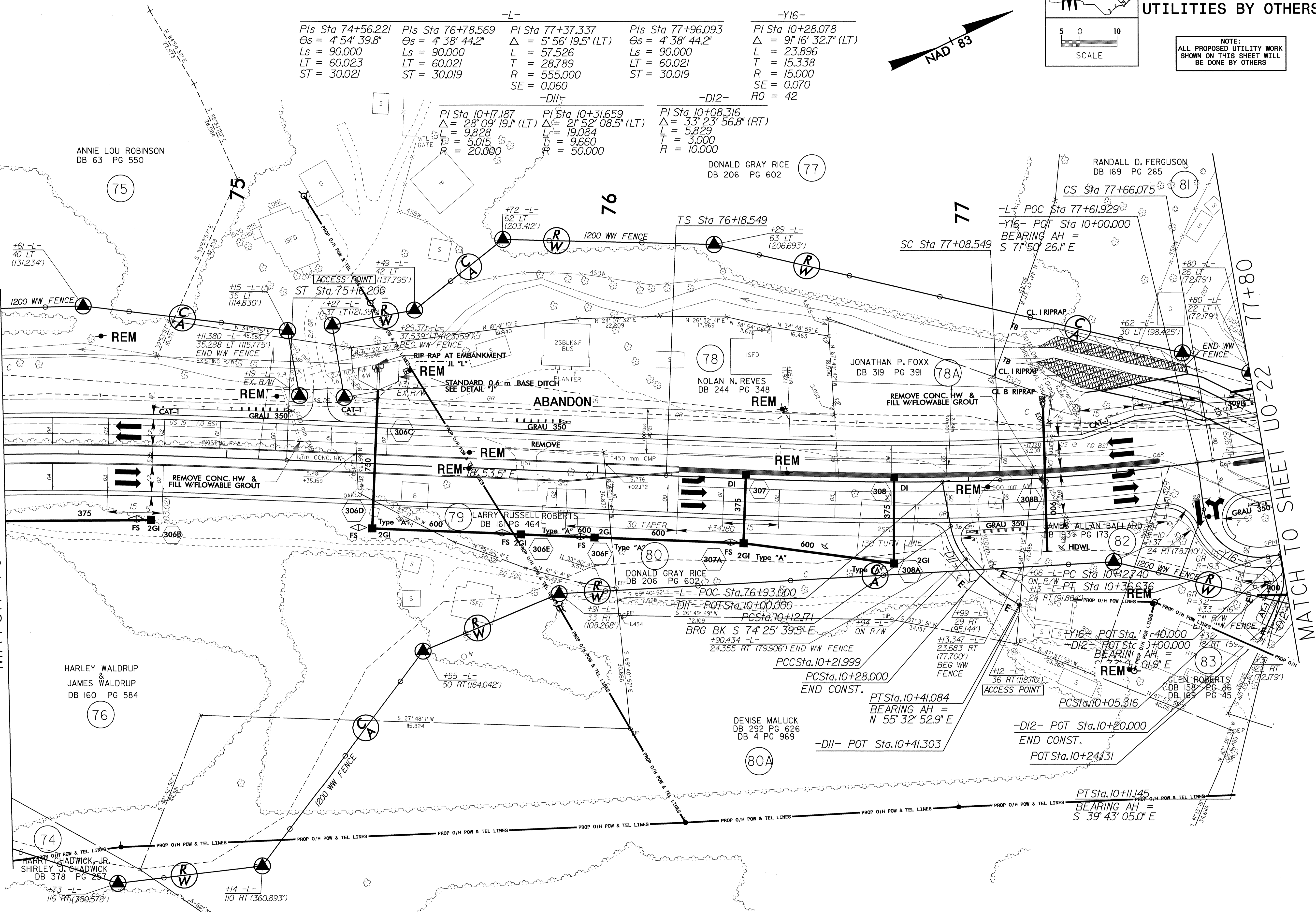
-L-		-Y16-	
Pls Sta 74+56.221	Pls Sta 76+78.569	PI Sta 77+37.337	Pls Sta 77+96.093
Os = 4° 54' 39.8"	Os = 4° 38' 44.2"	Δ = 5° 56' 19.5" (LT)	Os = 4° 38' 44.2"
Ls = 90.000	Ls = 90.000	L = 57.526	Ls = 90.000
LT = 60.023	LT = 60.021	T = 28.789	LT = 60.021
ST = 30.021	ST = 30.019	R = 555.000	ST = 30.019
		SE = 0.060	R = 10.000
			RO = 42

-D11-		-D12-	
PI Sta 10+17.187	PI Sta 10+31.659	PI Sta 10+08.316	
Δ = 28° 09' 19.1" (LT)	Δ = 2° 52' 08.5" (LT)	Δ = 33° 23' 56.8" (RT)	
L = 9.828	L = 19.084	L = 5.829	
T = 5.015	T = 9.660	T = 3.000	
R = 20.000	R = 50.000	R = 10.000	

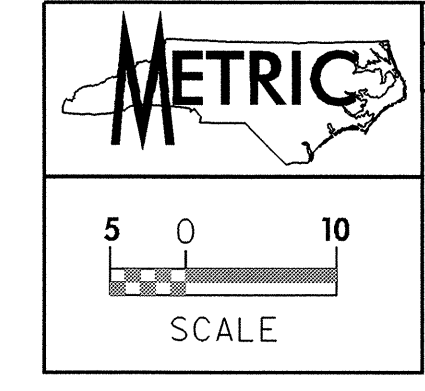


MATCH TO SHEET U0-20 74+40

MATCH TO SHEET U0-22 77+80



23-AUG-2007 17:39
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 8/24/2007 8:24:23 AM



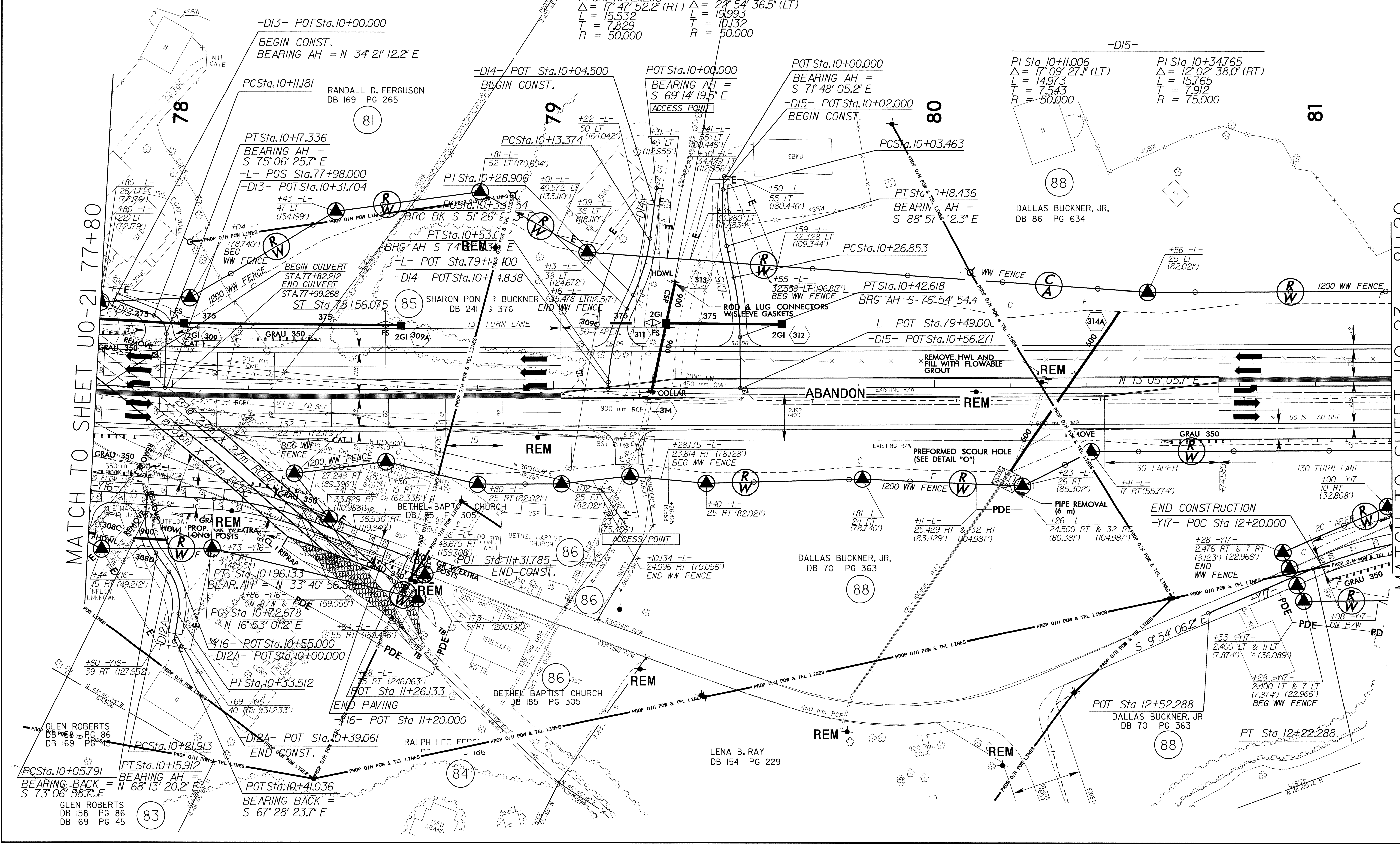
NOTE:
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 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS

-L- PIs Sta 77+96.093 Δ = 4° 38' 44.2" Ls = 90.000 T = 60.021 ST = 30.019	-Y16- PI Sta 10+84.490 Δ = 16° 47' 55.2" (RT) L = 23.455 T = 11.812 R = 80.000 SE = 0.080 RO = 42	-Y17- PI Sta 12+00.604 Δ = 25° 15' 52.4" (LT) L = 44.095 T = 22.412 R = 100.000 SE = 0.080 RO = 48	-D12A- PI Sta 10+11.053 Δ = 38° 39' 41.1" (LT) L = 10.122 T = 5.262 R = 15.000	PI Sta 10+28.020 Δ = 44° 18' 16.1" (RT) L = 11.599 T = 6.107 R = 15.000	-D13- PI Sta 10+14.717 Δ = 70° 32' 22.1" (RT) L = 6.156 T = 3.536 R = 5.000
			-D14- PI Sta 10+21.203 Δ = 17° 47' 52.2" (RT) L = 15.532 T = 7.829 R = 50.000	PI Sta 10+43.186 Δ = 28° 54' 36.5" (LT) L = 19.993 T = 10.132 R = 50.000	

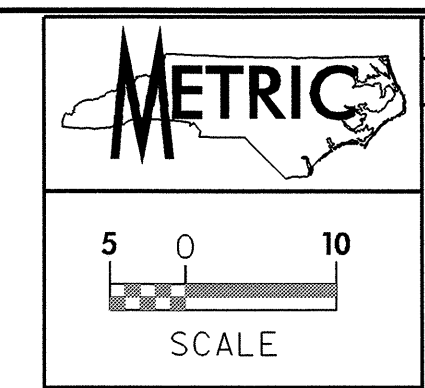


MATCH TO SHEET U0-21 77+80

MATCH TO SHEET U0-23 81+20



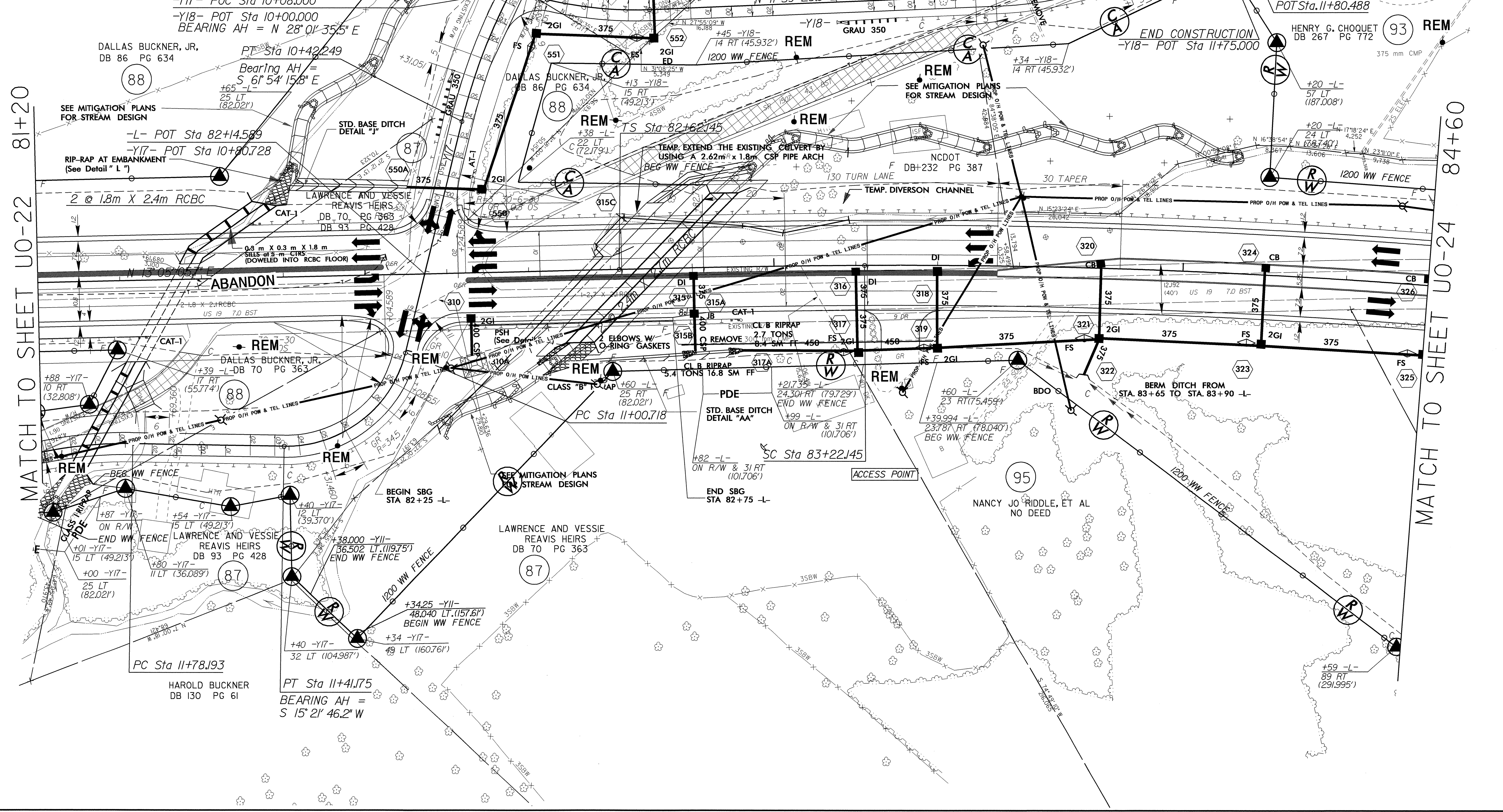
24-AUG-2007 07:23
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 bohemphill PS-Oce34dtbond



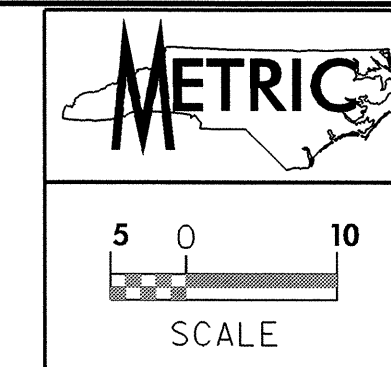
NOTE:
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 SHOWN ON THIS SHEET WILL
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-L-		-Y18-	
PI Sta 83+02.146	PI Sta 84+78.868	PI Sta 10+21.752	PI Sta 11+35.087
$\Delta = 1^{\circ} 00' 40.0"$	$\Delta = 10^{\circ} 32' 03.9"$ (RT)	$\Delta = 16^{\circ} 02' 06.6"$ (LT)	$\Delta = 20^{\circ} 04' 55.7"$ (LT)
L = 60.000	L = 312.563	L = 25.188	L = 31.545
LT = 40.001	T = 156.723	T = 12.677	T = 15.936
SE = 20.001	R = 1,700.000	R = 90.000	R = 90.000
	SE = 0.030		

-Y17-		
PI Sta 12+00.604	PI Sta 11+24.695	PI Sta 10+21.286
$\Delta = 25^{\circ} 15' 52.4"$ (LT)	$\Delta = 77^{\circ} 16' 02.0"$ (RT)	$\Delta = 17^{\circ} 17' 25.7"$ (LT)
L = 44.095	L = 40.457	L = 42.249
T = 22.412	T = 23.978	T = 21.286
R = 100.000	R = 30.000	R = 140.000
SE = 0.080	SE = 0.080	SE = 0.080
RO = 48	RO = 48	RO = 48

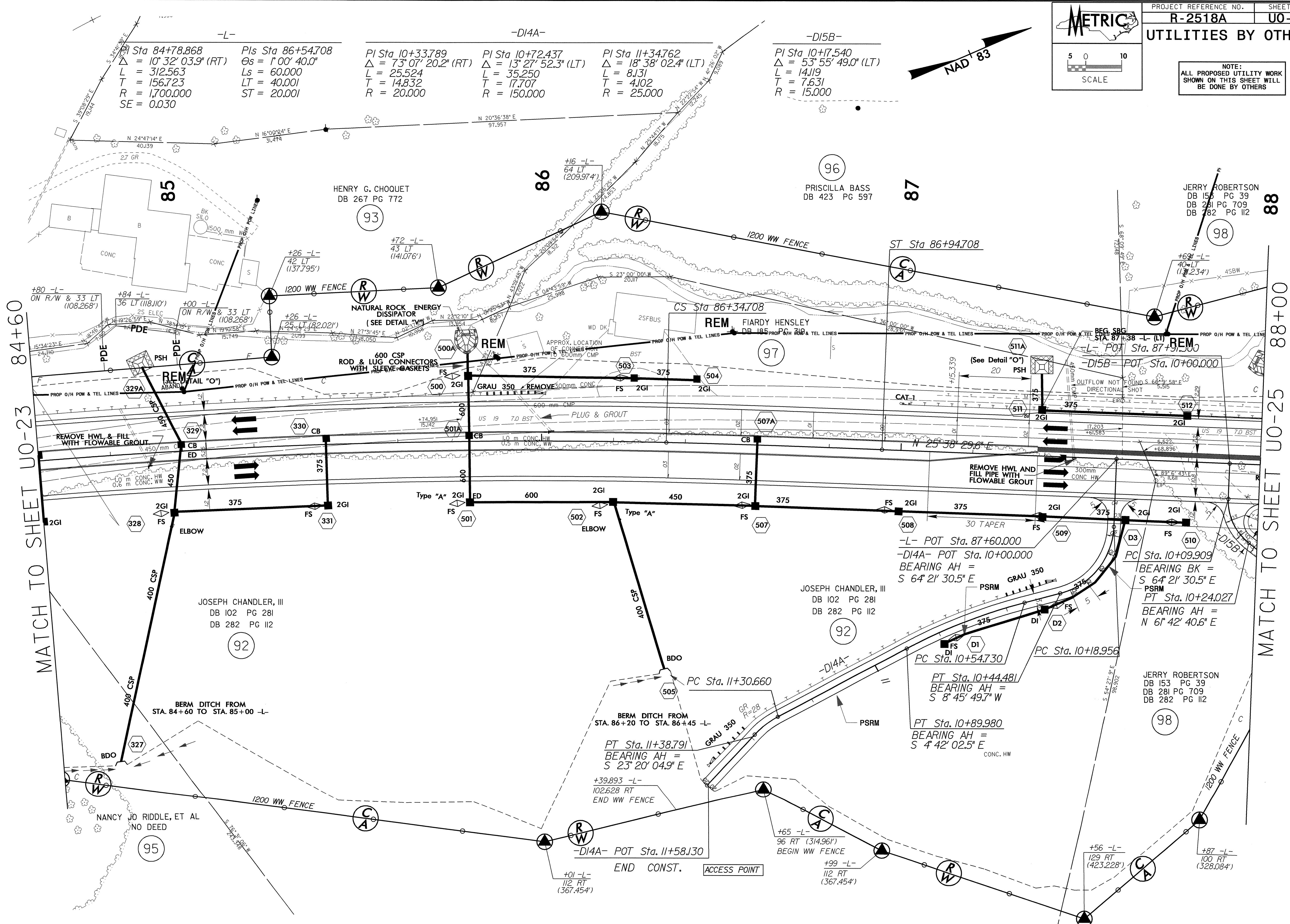
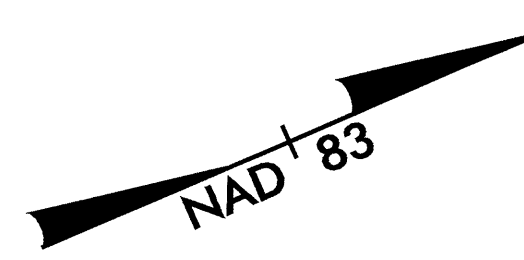


24-AUG-2007 07:36
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UTILITIES BY OTHERS

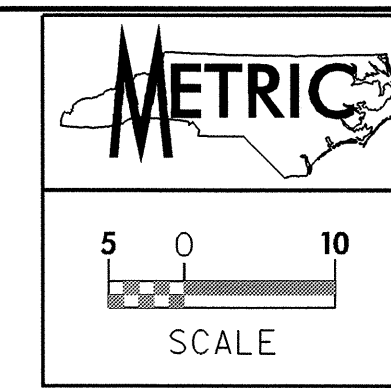
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



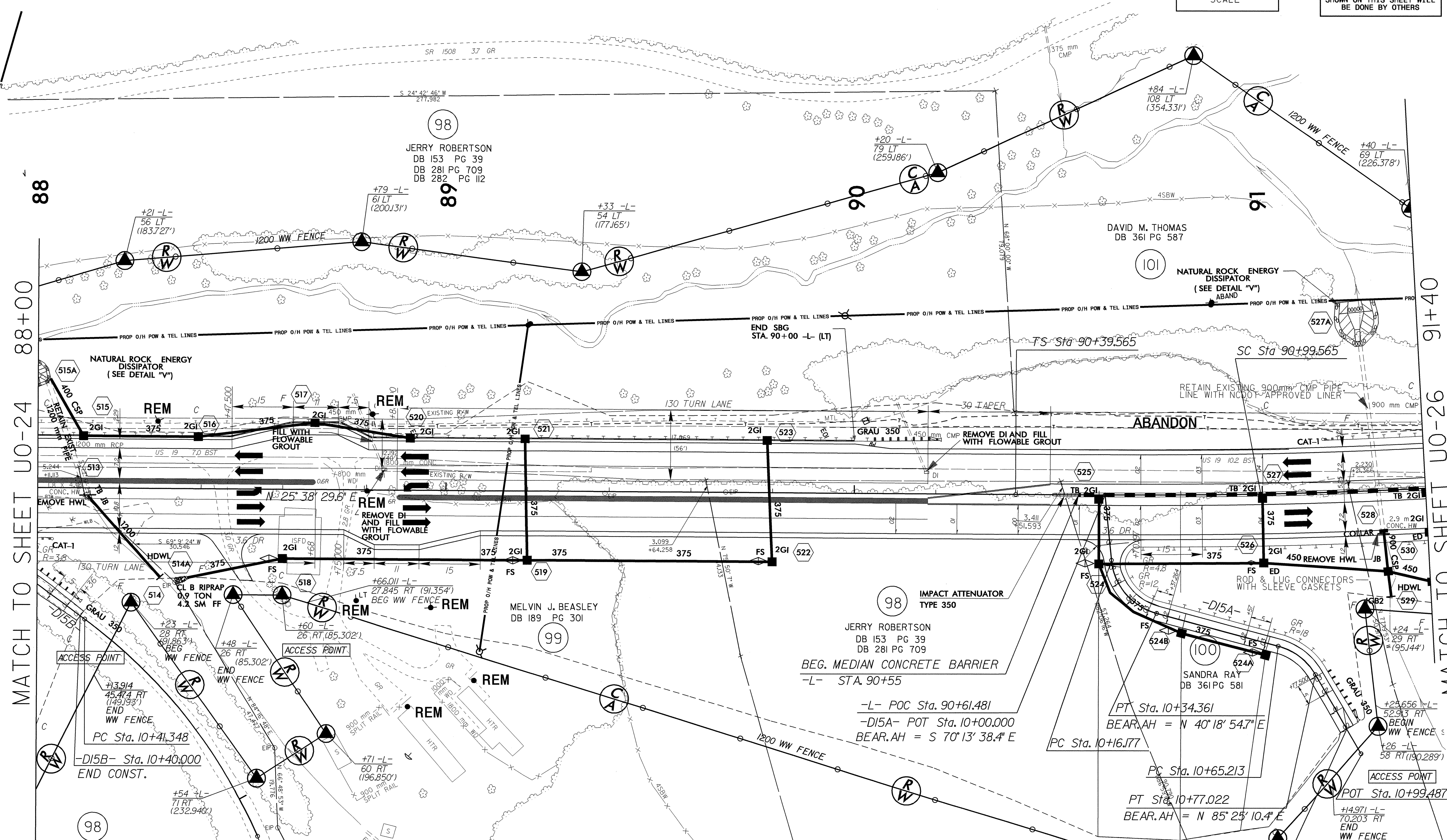
MATCH TO SHEET UO-23

MATCH TO SHEET UO-25

24-AUG-2007 07:51
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NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS



MATCH TO SHEET UO-24 88+00

MATCH TO SHEET UO-26 91+40

98
 JERRY ROBERTSON
 DB 153 PG 39
 DB 281 PG 709
 DB 282 PG 112

Pls Sta 90+79.567
 $\Delta = 1^{\circ} 25' 56.6''$
 $L_s = 60.000$
 $T = 40.001$
 $ST = 20.001$

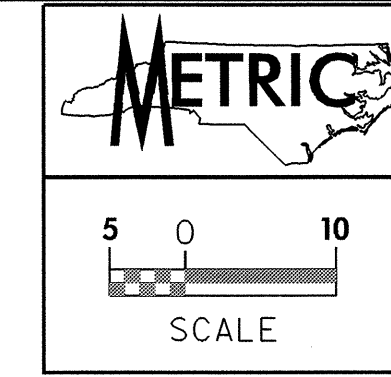
PI Sta 91+69.774
 $\Delta = 6^{\circ} 41' 48.4''$ (LT)
 $L = 140.257$
 $T = 70.208$
 $R = 1,200.000$
 $SE = 0.040$

PI Sta 10+26.575
 $\Delta = 69^{\circ} 27' 26.9''$ (LT)
 $L = 18.184$
 $T = 10.398$
 $R = 15.000$

PI Sta 10+71.443
 $\Delta = 45^{\circ} 06' 15.7''$ (RT)
 $L = 11.808$
 $T = 6.229$
 $R = 15.000$

PI Sta 10+76.710
 $\Delta = 30^{\circ} 26' 05.4''$ (RT)
 $L = 69.054$
 $T = 35.363$
 $R = 130.000$

24-AUG-2007 08:26
 C:\Users\jbohem\Documents\2518a_ut_27_uo25_psh.dgn
 8/27/07



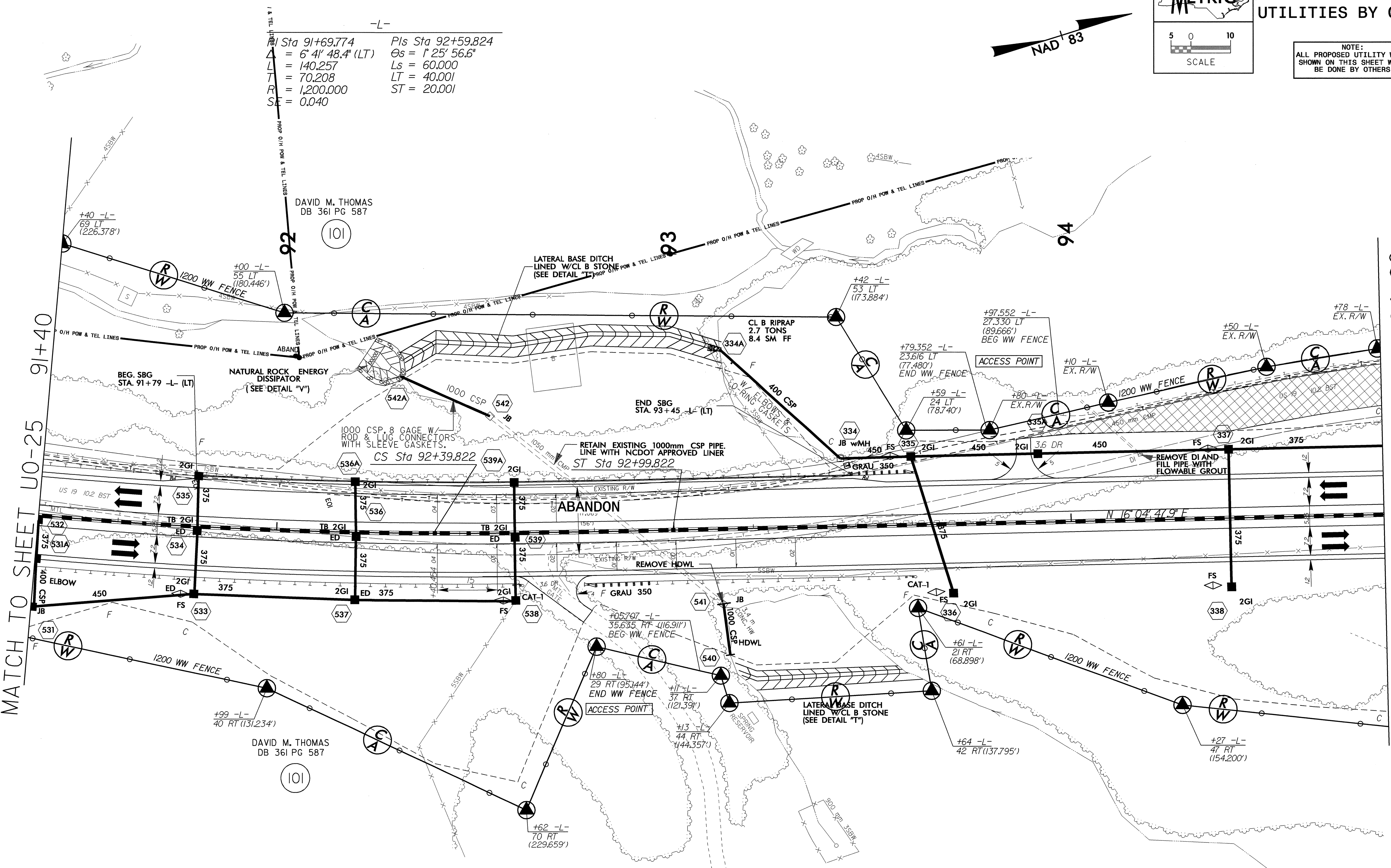
NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS



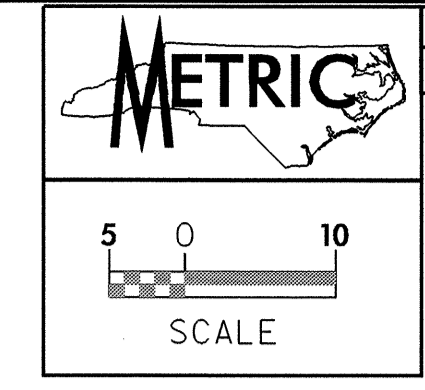
-L-
 Sta 91+69.774 PIs Sta 92+59.824
 $\Delta = 6' 41'' 48.4''$ (LT) $\Theta s = 1' 25'' 56.6''$
 $L = 140.257$ $Ls = 60.000$
 $T = 70.208$ $LT = 40.001$
 $R = 1,200.000$ $ST = 20.001$
 $S = 0.040$

MATCH TO SHEET U0-25 91+40

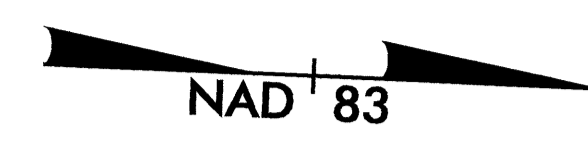
MATCH TO SHEET U0-27 94+80



24-AUG-2007 08:36
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 bohemphill

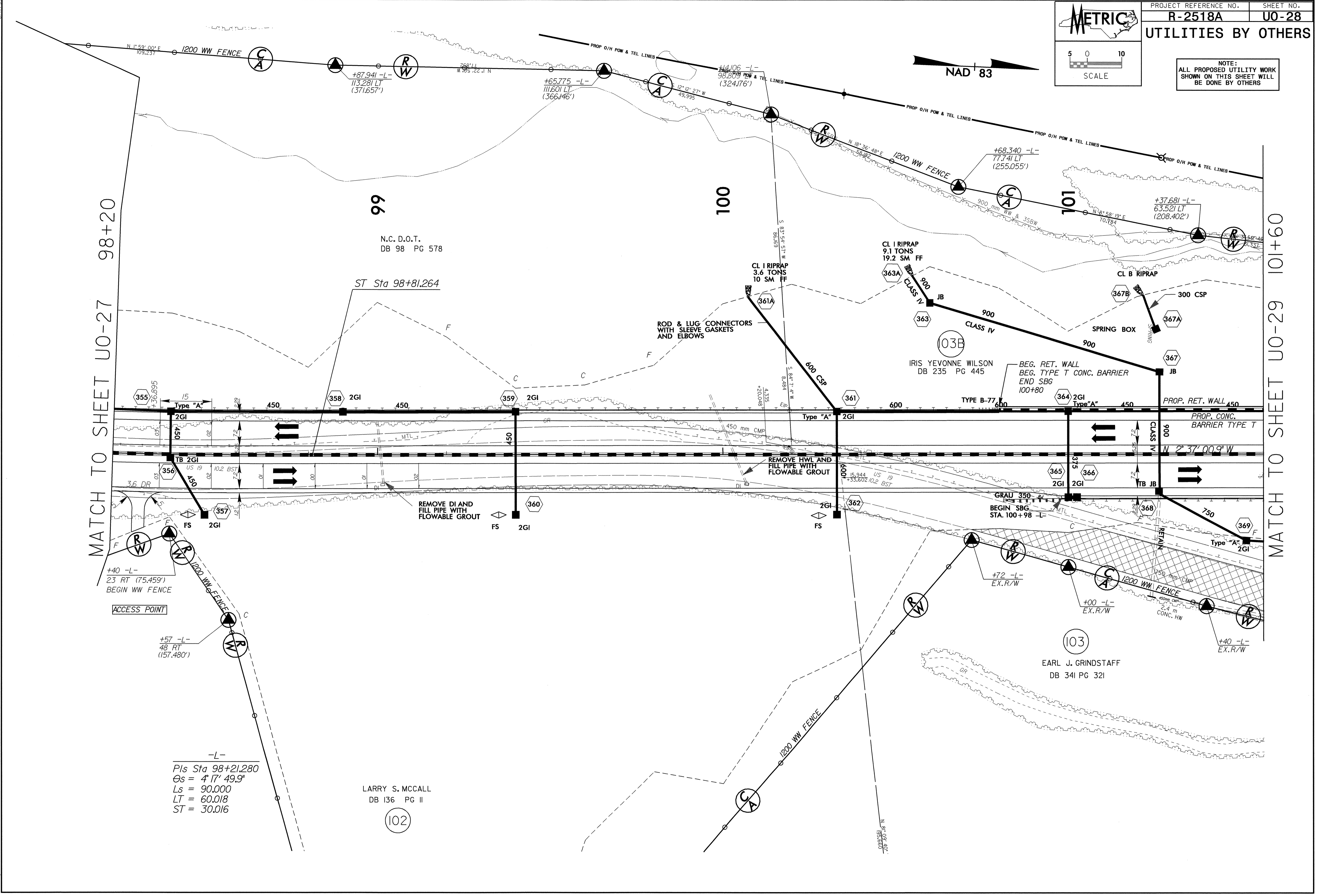


NOTE:
 ALL PROPOSED UTILITY WORK
 SHOWN ON THIS SHEET WILL
 BE DONE BY OTHERS



MATCH TO SHEET UO-27 98+20

MATCH TO SHEET UO-29 101+60



+40 -L-
 23 RT (75.459')
 BEGIN WW FENCE
 ACCESS POINT

+57 -L-
 48 RT (157.480')

-L-
 Pls Sta 98+21.280
 Os = 4' 17" 49.9"
 Ls = 90.000
 LT = 60.018
 ST = 30.016

LARRY S. MCCALL
 DB 136 PG II

(102)

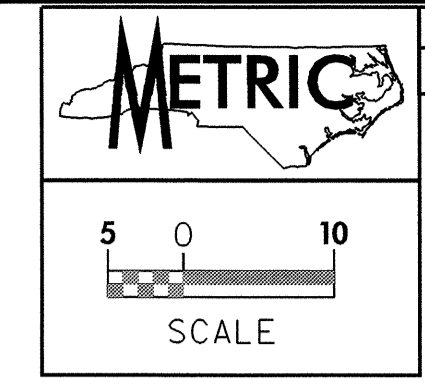
N.C.D.O.T.
 DB 98 PG 578

ST Sta 98+81.264

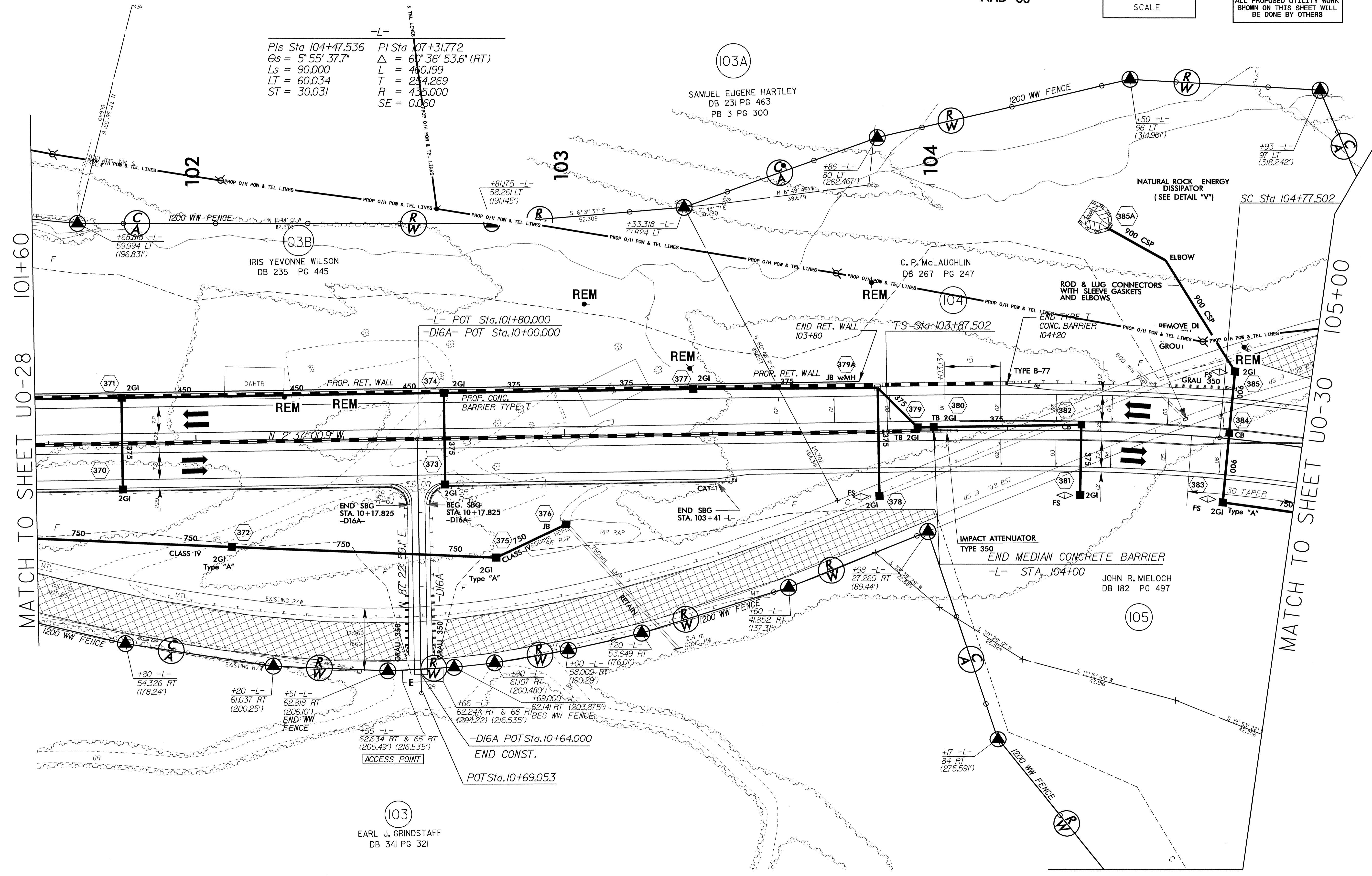
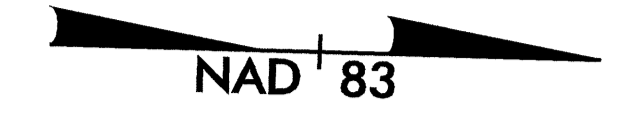
IRIS YEVONNE WILSON
 DB 235 PG 445

EARL J. GRINDSTAFF
 DB 341 PG 321

24-AUG-2007 08:59
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 bohemphill



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

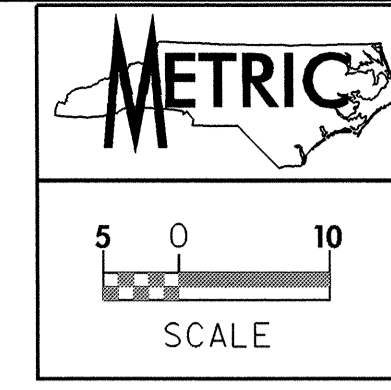


$Pis\ Sta\ 104+47.536$ $PI\ Sta\ 107+31.772$
 $\theta_s = 5^\circ 55' 37.7"$ $\Delta = 60^\circ 36' 53.6" (RT)$
 $L_s = 90.000$ $L = 460.199$
 $LT = 60.034$ $T = 254.269$
 $ST = 30.031$ $R = 435.000$
 $SE = 0.060$

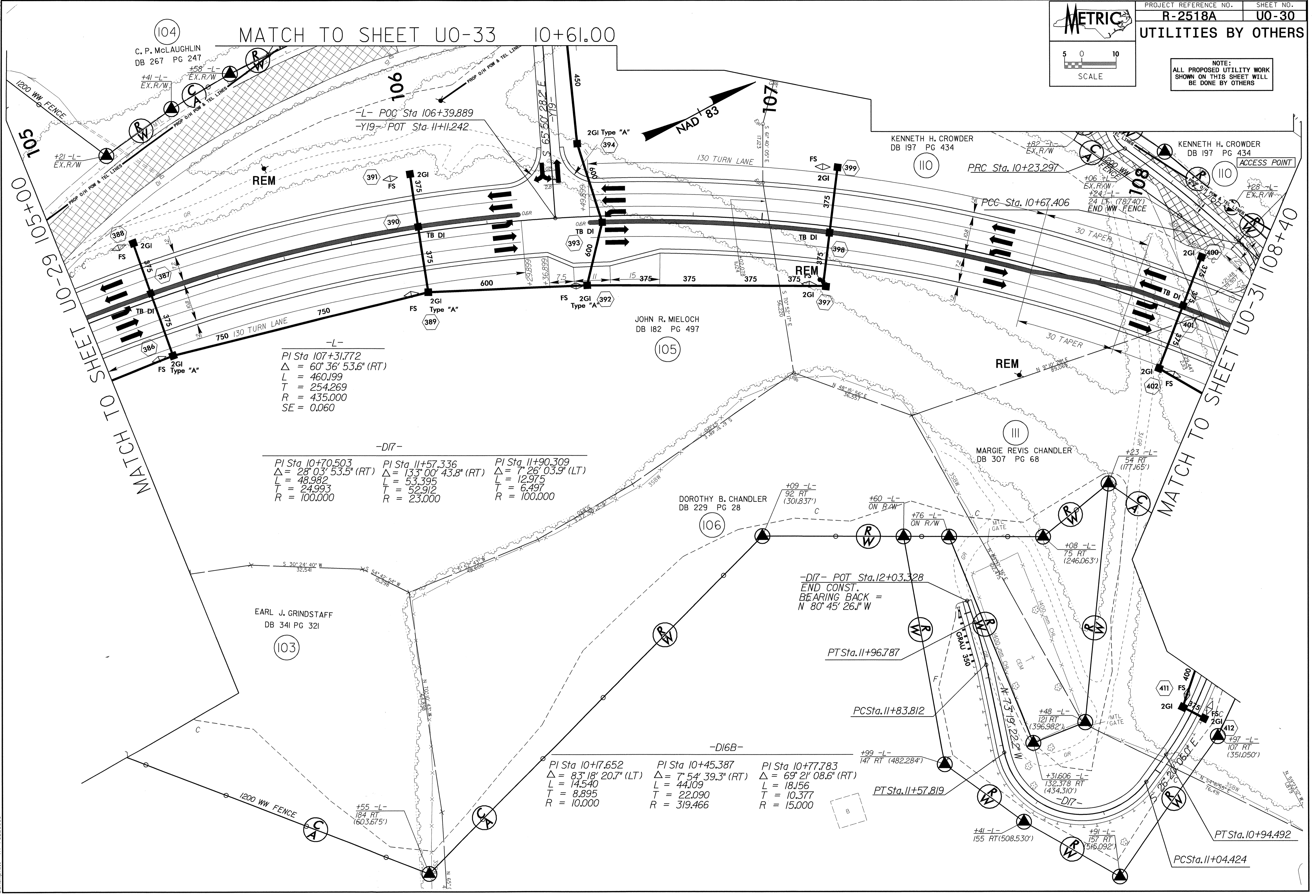
MATCH TO SHEET UO-28 101+60

MATCH TO SHEET UO-30 105+00

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NOTE:
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 BE DONE BY OTHERS

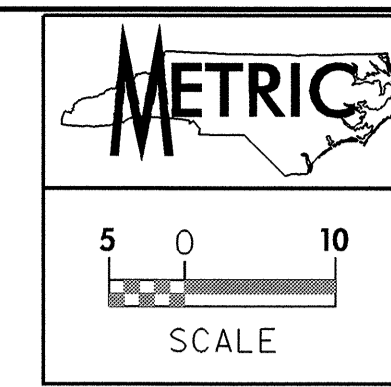


-L-
 PI Sta 107+31.772
 $\Delta = 60^\circ 36' 53.6''$ (RT)
 L = 460.199
 T = 254.269
 R = 435.000
 SE = 0.060

-D17-
 PI Sta 10+70.503 $\Delta = 28^\circ 03' 53.5''$ (RT) L = 48.982 T = 24.993 R = 100.000
 PI Sta 11+57.336 $\Delta = 133^\circ 00' 43.8''$ (RT) L = 53.395 T = 52.912 R = 23.000
 PI Sta 11+90.309 $\Delta = 7^\circ 26' 03.9''$ (LT) L = 12.975 T = 6.497 R = 100.000

-D16B-
 PI Sta 10+17.652 $\Delta = 83^\circ 18' 20.7''$ (LT) L = 14.540 T = 8.895 R = 10.000
 PI Sta 10+45.387 $\Delta = 7^\circ 54' 39.3''$ (RT) L = 44.09 T = 22.090 R = 319.466
 PI Sta 10+77.783 $\Delta = 69^\circ 21' 08.6''$ (RT) L = 18.156 T = 10.377 R = 15.000

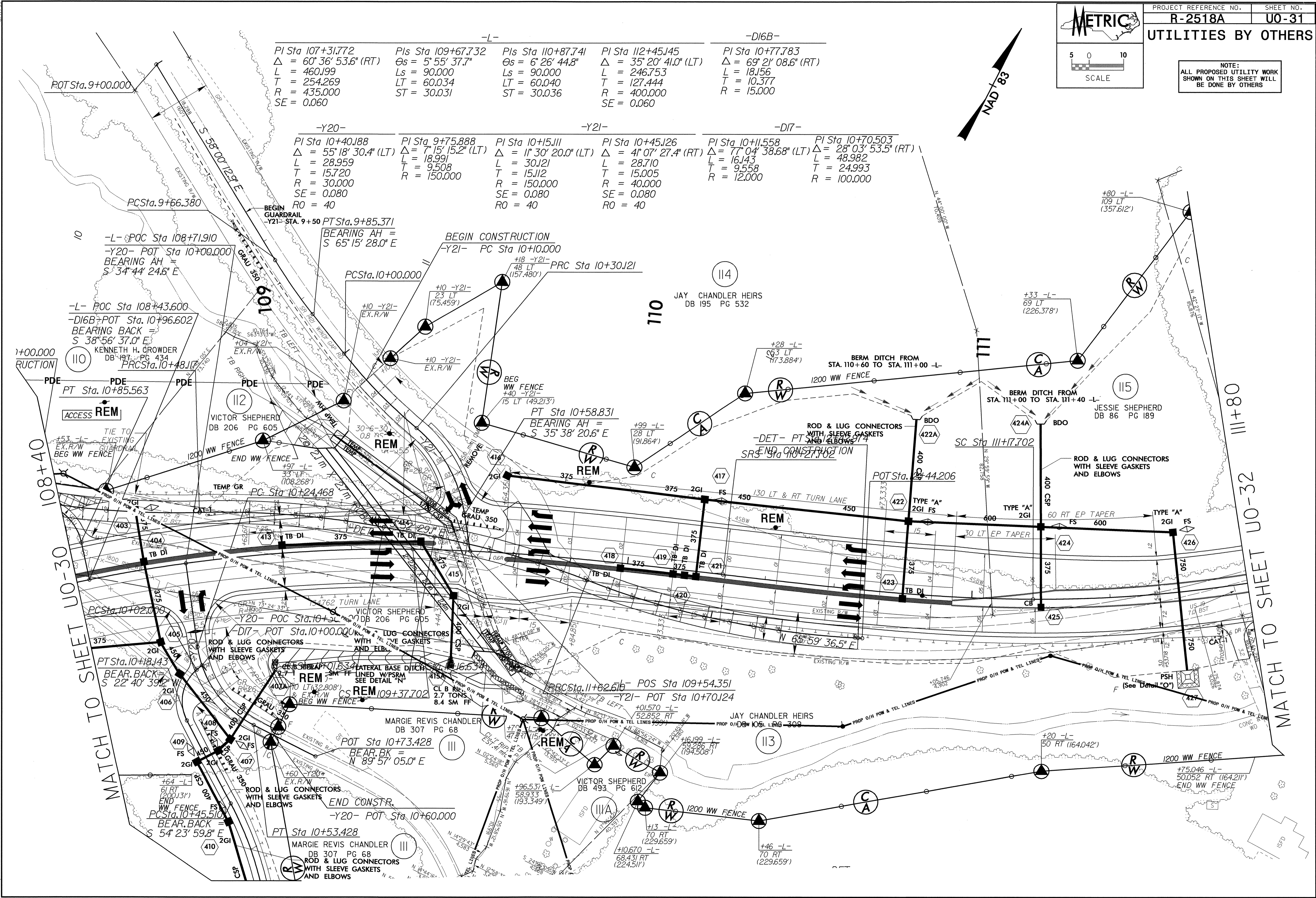
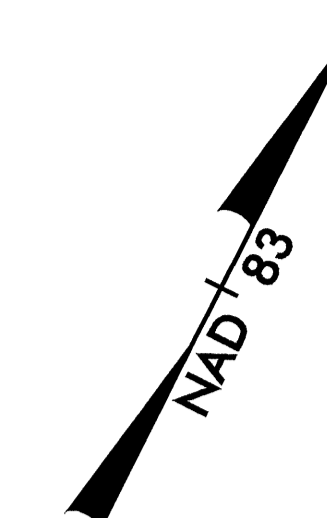
24-AUG-2007 10:30
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 bohemphill AT PS228333



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

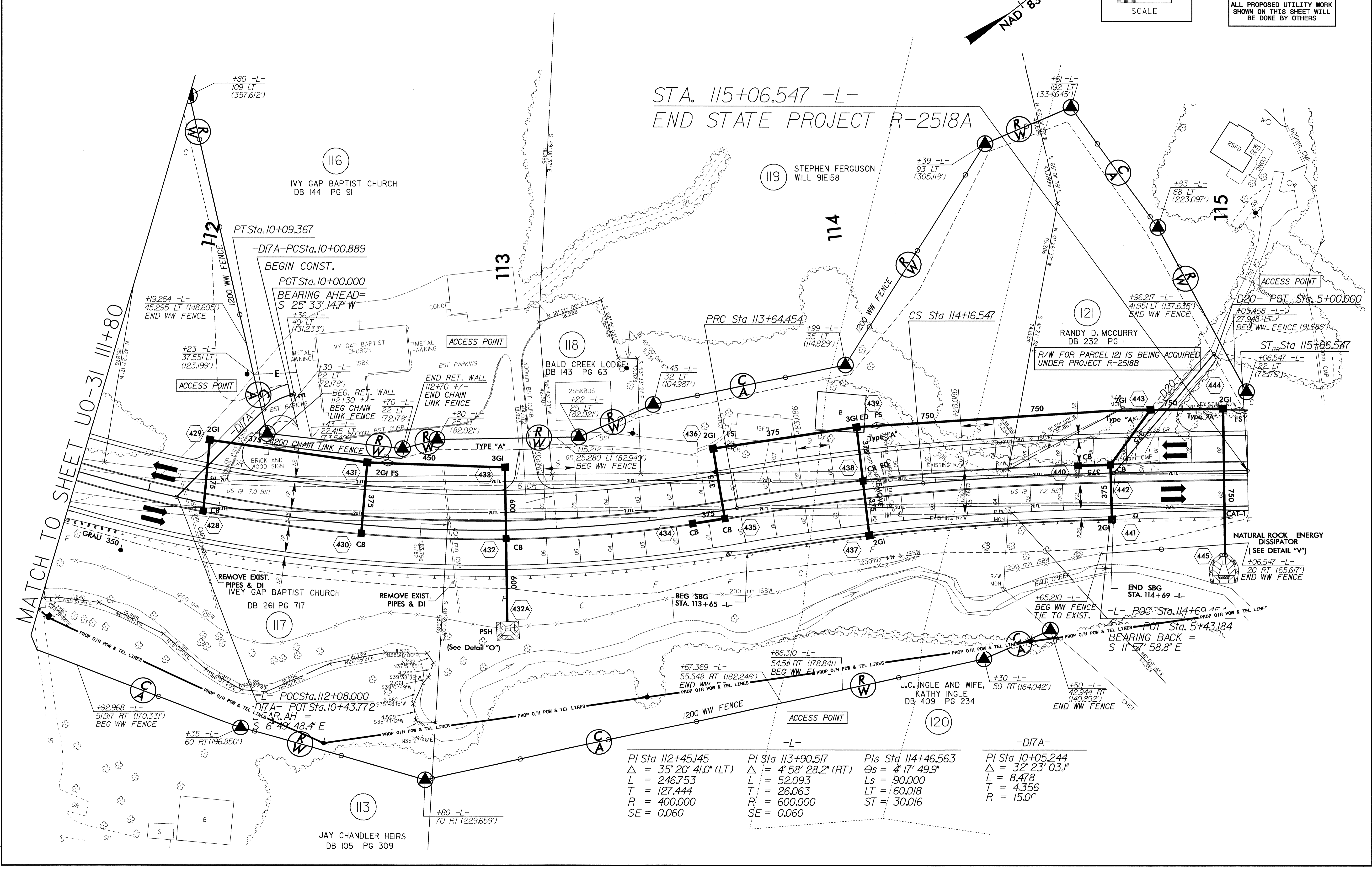
-L-		-DI6B-	
PI Sta 107+31.772	PIs Sta 109+67.732	PIs Sta 110+87.741	PI Sta 112+45.145
$\Delta = 60^\circ 36' 53.6" (RT)$	$\Delta = 5^\circ 55' 37.7"$	$\Delta = 6^\circ 26' 44.8"$	$\Delta = 35^\circ 20' 41.0" (LT)$
L = 460.199	Ls = 90.000	Ls = 90.000	L = 246.753
T = 254.269	LT = 60.034	LT = 60.040	T = 127.444
R = 435.000	ST = 30.031	ST = 30.036	R = 400.000
SE = 0.060			SE = 0.060

-Y20-		-Y21-		-D17-	
PI Sta 10+40.188	PI Sta 9+75.888	PI Sta 10+15.111	PI Sta 10+45.126	PI Sta 10+11.558	PI Sta 10+70.503
$\Delta = 55^\circ 18' 30.4" (LT)$	$\Delta = 7^\circ 15' 15.2" (LT)$	$\Delta = 1^\circ 30' 20.0" (LT)$	$\Delta = 4^\circ 07' 27.4" (RT)$	$\Delta = 77^\circ 04' 38.6" (LT)$	$\Delta = 28^\circ 03' 53.5" (RT)$
L = 28.959	L = 18.991	L = 30.121	L = 28.710	L = 16.143	L = 48.982
T = 15.720	T = 9.508	T = 15.112	T = 15.005	T = 9.558	T = 24.993
R = 30.000	R = 150.000	R = 150.000	R = 40.000	R = 12.000	R = 100.000
SE = 0.080		SE = 0.080	SE = 0.080		
RO = 40		RO = 40	RO = 40		



24-AUG-2007 10:42
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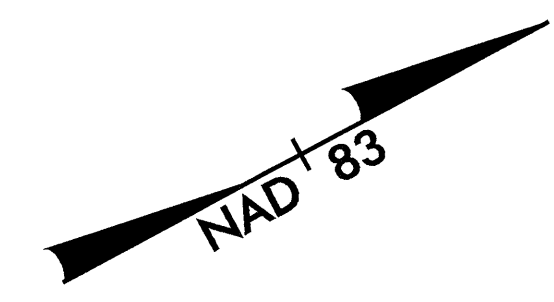
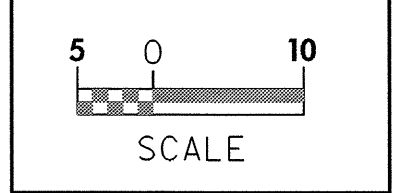
STA. 115+06.547 -L-
 END STATE PROJECT R-2518A



MATCH TO SHEET UO-31 III+80

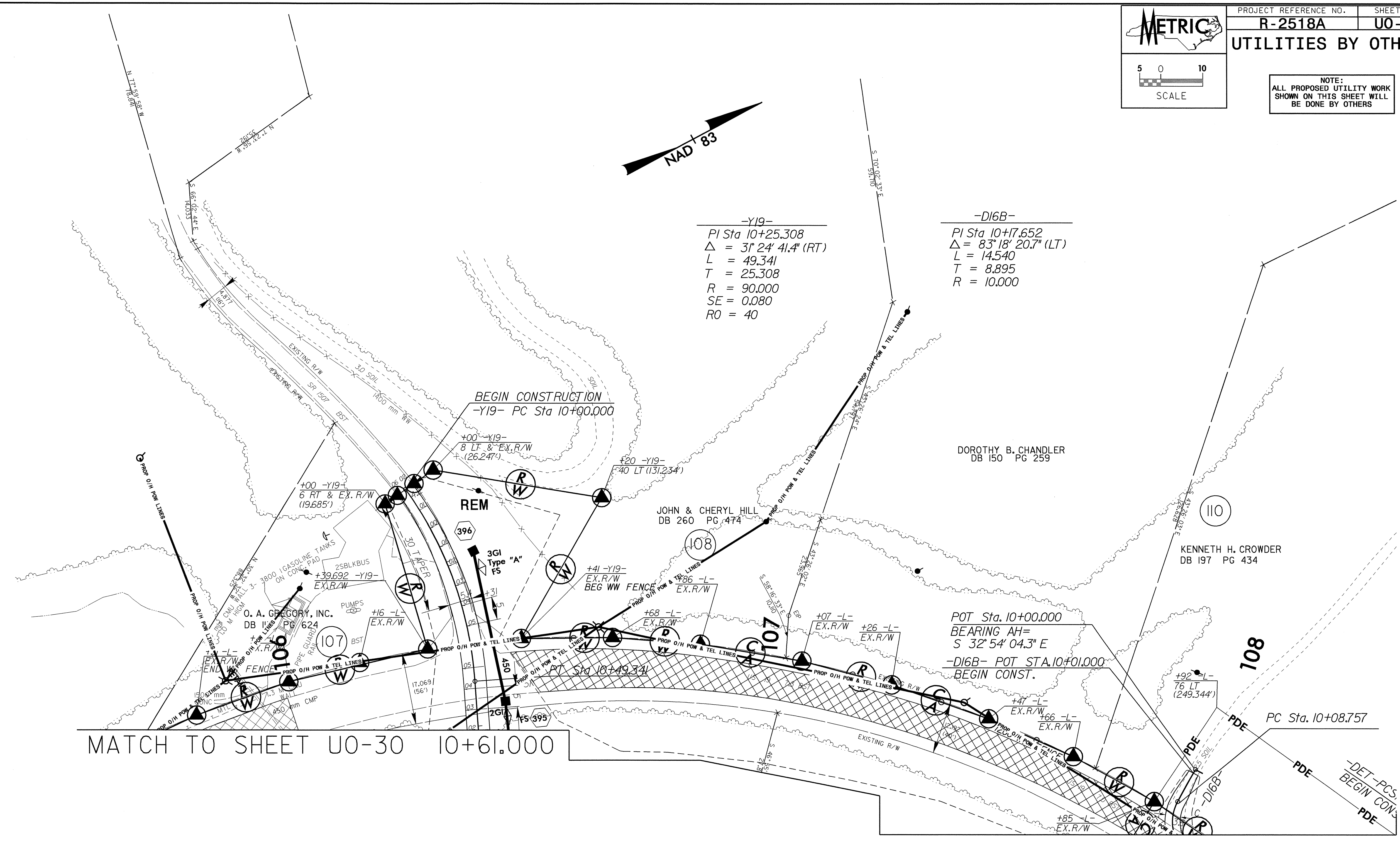
PI Sta 112+45.145 $\Delta = 35^\circ 20' 41.0''$ (LT) $L = 246.753$ $T = 127.444$ $R = 400.000$ $SE = 0.060$	PI Sta 113+90.517 $\Delta = 4^\circ 58' 28.2''$ (RT) $L = 52.093$ $T = 26.063$ $R = 600.000$ $SE = 0.060$	PIs Sta 114+46.563 $\Delta s = 4^\circ 17' 49.9''$ $Ls = 90.000$ $LT = 60.018$ $ST = 30.016$	-D7A- PI Sta 10+05.244 $\Delta = 32^\circ 23' 03.1''$ $L = 8.478$ $T = 4.356$ $R = 15.0r$
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-Y19-
 PI Sta 10+25.308
 $\Delta = 31^{\circ} 24' 41.4''$ (RT)
 L = 49.341
 T = 25.308
 R = 90.000
 SE = 0.080
 RO = 40

-D16B-
 PI Sta 10+17.652
 $\Delta = 83^{\circ} 18' 20.7''$ (LT)
 L = 14.540
 T = 8.895
 R = 10.000



MATCH TO SHEET U0-30 10+61.000

24-AUG-2007 10:33
 r:\utilities\2518a\ut_34a_u033_psh.dgn
 bohemp hill