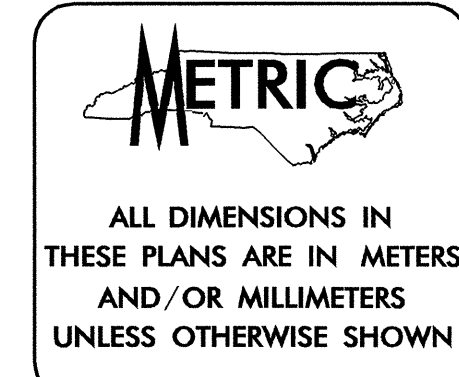


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CONTRACT: C201818 PROJECT: R-2554BA

CONTRACT: C201818 PROJECT: R-2554BA

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

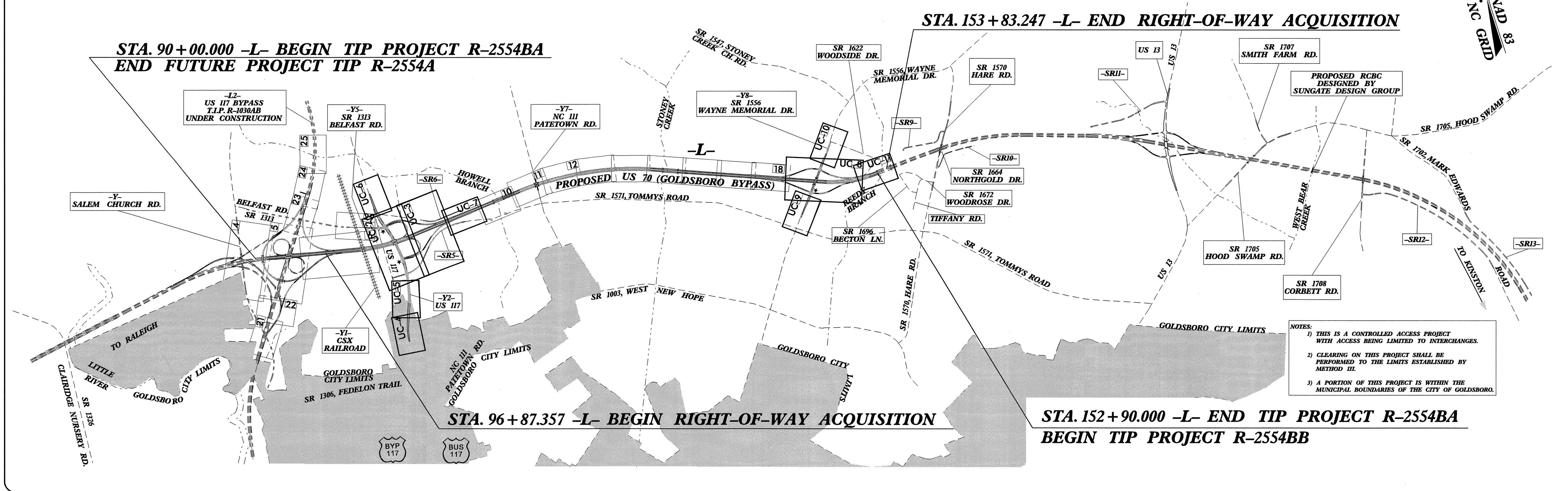
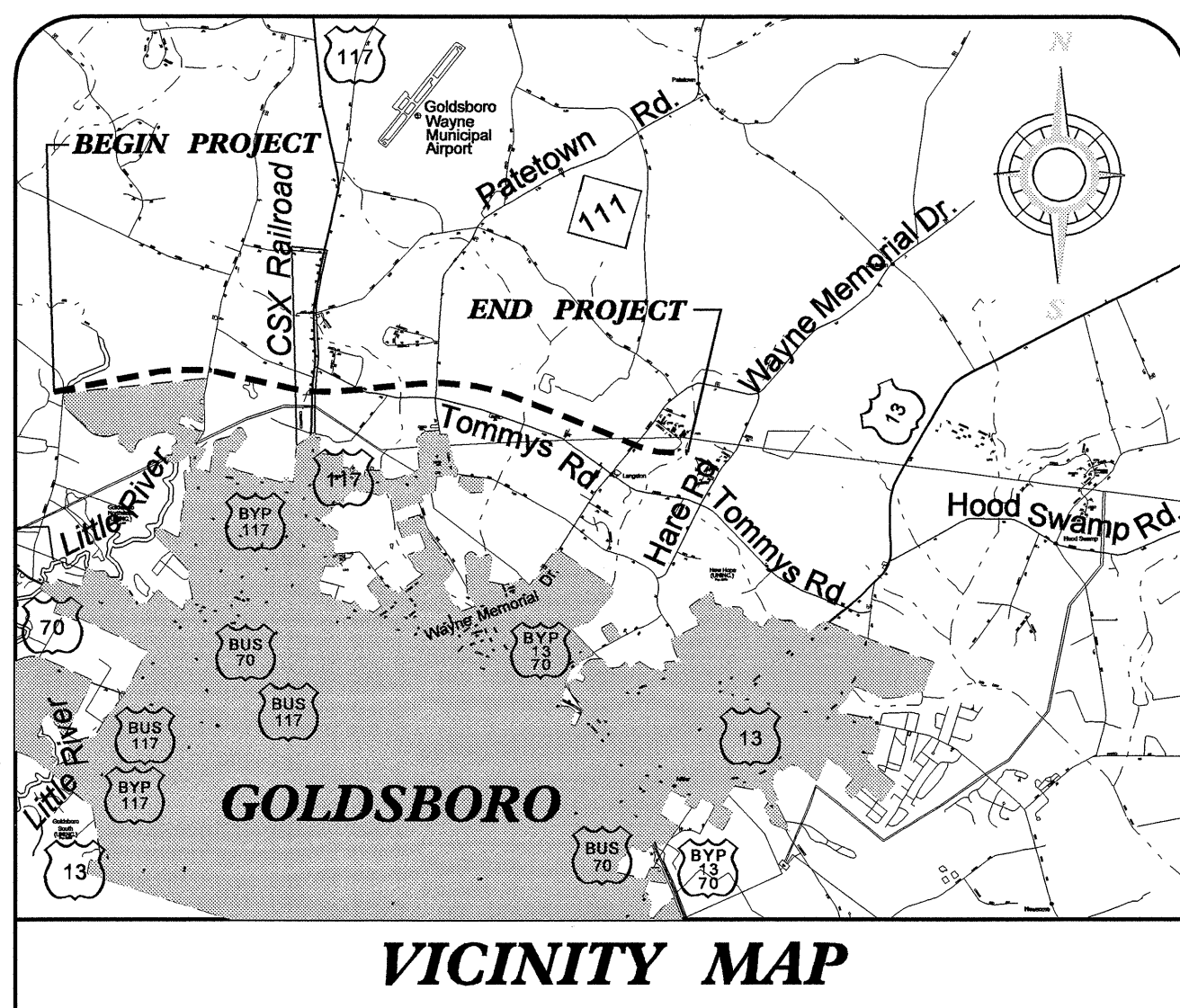


T.I.P. NO.	SHEET NO.
R-2554BA	UC-1

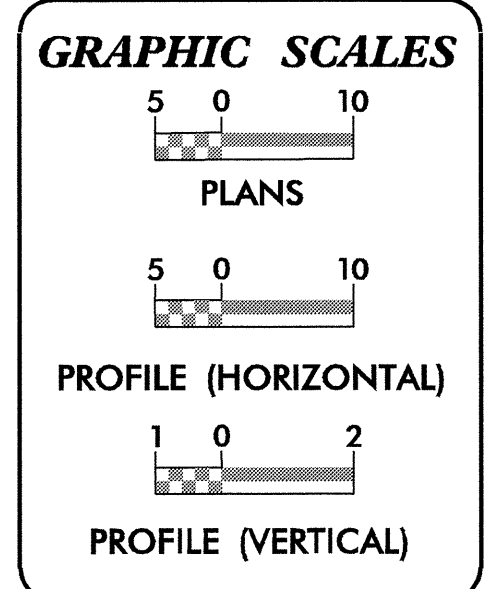
UTILITY CONSTRUCTION PLANS
WAYNE COUNTY

LOCATION: US 70 (GOLDSBORO BYPASS)
FROM EAST OF SR 1300 (SALEM CHURCH ROAD)
TO EAST OF SR 1556 (WAYNE MEMORIAL DRIVE)

TYPE OF WORK: UTILITY CONSTRUCTION



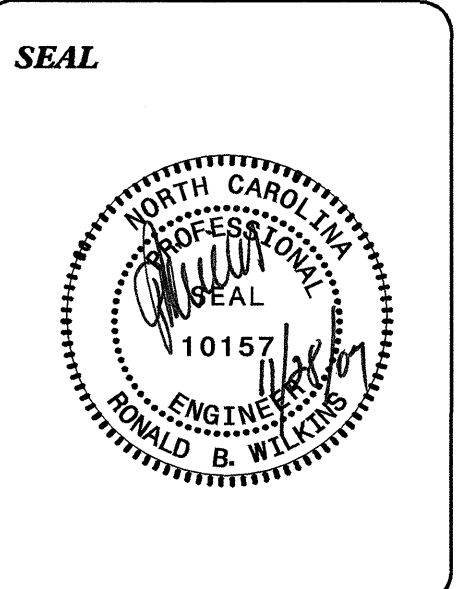
NOTES:
1) THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
2) CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
3) A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF GOLDSBORO.



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-11	UTILITY CONSTRUCTION PLAN SHEETS
UC-12	DETAILS SHEET

- WATER AND SEWER OWNERS ON PROJECT**
- (1) WATER - WAYNE WATER DISTRICT
 - (2) WATER - FORK TOWNSHIP
 - (3) SANITARY SEWER (GRAVITY) - CITY OF GOLDSBORO
 - (4) SANITARY SEWER (FORCE MAIN) - TOWN OF FREMONT



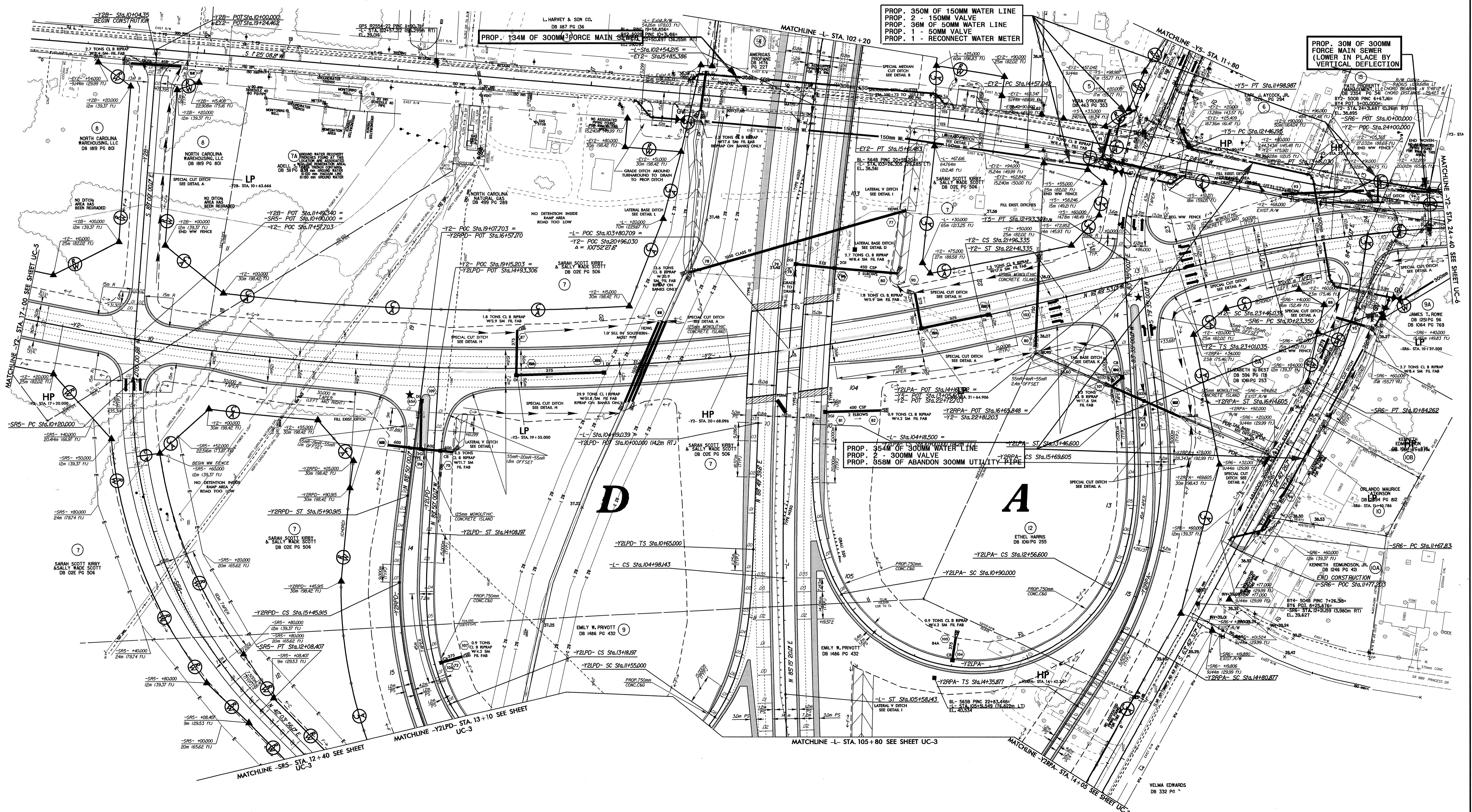
PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITY SECTION

1501 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

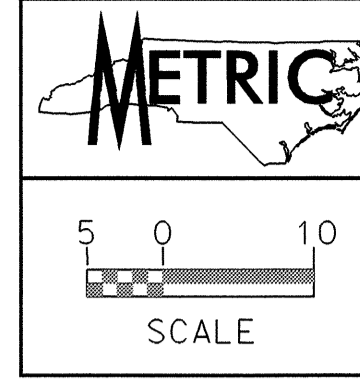
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
R. B. WILKINS, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
MICHAEL R. BRIGHT UTILITIES PROJECT DESIGNER

NOTE:

- 300MM WATER LINE OWNED BY FORK TOWNSHIP
- 150MM & 50MM WATER LINES OWNED BY WAYNE WATER DISTRICT
- 300MM FORCE MAIN SEWER LINE OWNED BY TOWN OF FREMONT



09-APR-2008 10:26
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 10157 RBW
 10157 RBW



PROJECT REFERENCE NO.	SHEET NO.
R-2554BA	UC-6
DESIGNED BY: MRB	
DRAWN BY: MRB	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA PROFESSIONAL ENGINEER 10157 RONALD B. WILKINS	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

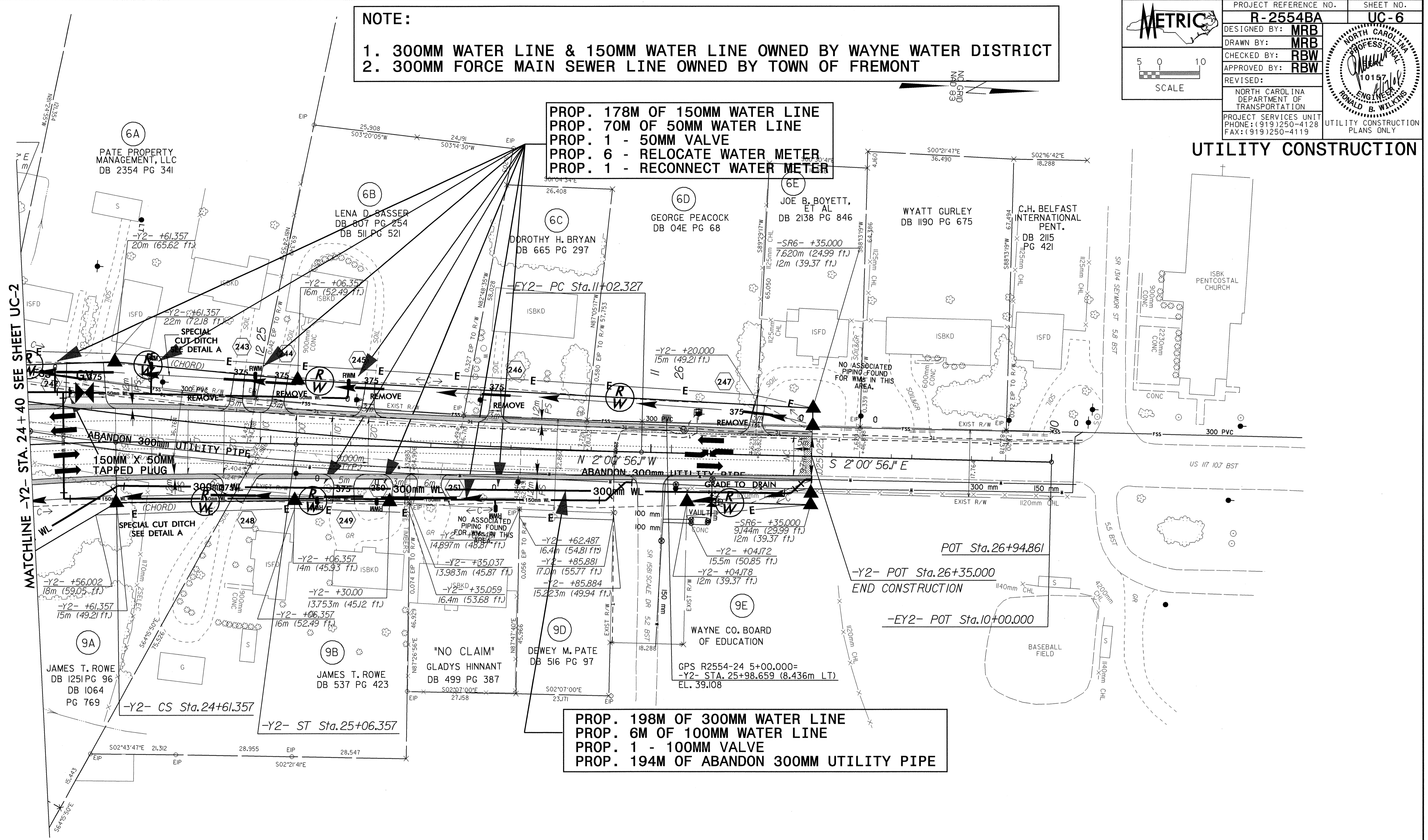
NOTE:

- 300MM WATER LINE & 150MM WATER LINE OWNED BY WAYNE WATER DISTRICT
- 300MM FORCE MAIN SEWER LINE OWNED BY TOWN OF FREMONT

PROP. 178M OF 150MM WATER LINE
 PROP. 70M OF 50MM WATER LINE
 PROP. 1 - 50MM VALVE
 PROP. 6 - RELOCATE WATER METER
 PROP. 1 - RECONNECT WATER METER

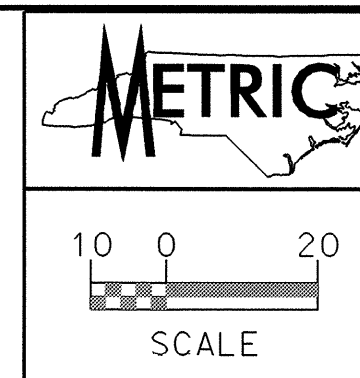
PROP. 198M OF 300MM WATER LINE
 PROP. 6M OF 100MM WATER LINE
 PROP. 1 - 100MM VALVE
 PROP. 194M OF ABANDON 300MM UTILITY PIPE

MATCHLINE -Y2- STA. 24 + 40 SEE SHEET UC-2



UTILITY CONSTRUCTION

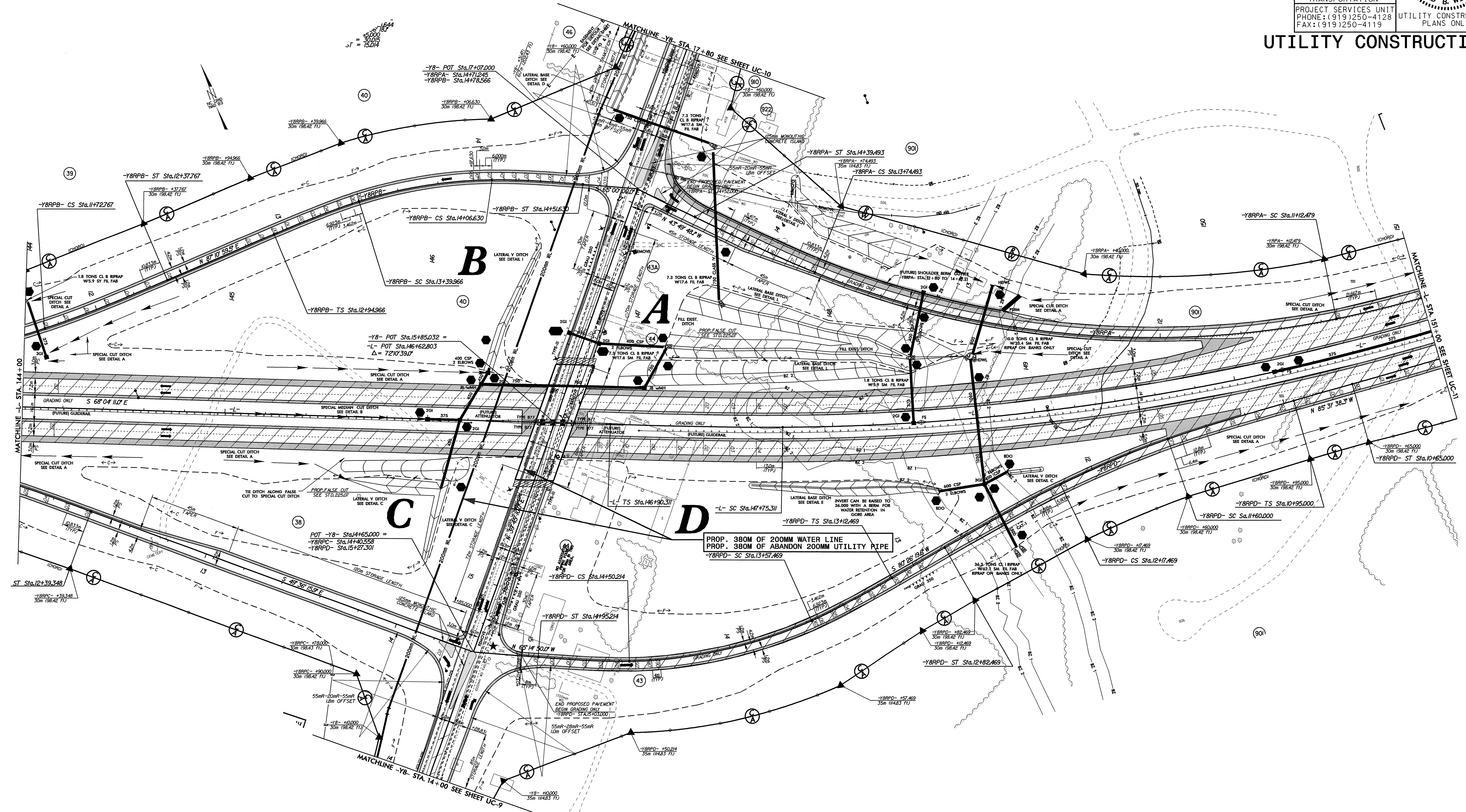
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 8/17/2025



PROJECT REFERENCE NO.	R-2554BA	SHEET NO.	UC-8
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

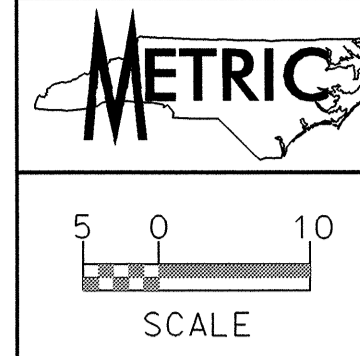
NOTE:
200MM WATER LINE OWNED BY WAYNE WATER DISTRICT

UTILITY CONSTRUCTION



PROP. 380M OF 200MM WATER LINE
PROP. 380M OF ABANDON 200MM UTILITY PIPE
YBRPD- SC Sta. 13+57.469

28-NOV-2007 15:58
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 8/17/08



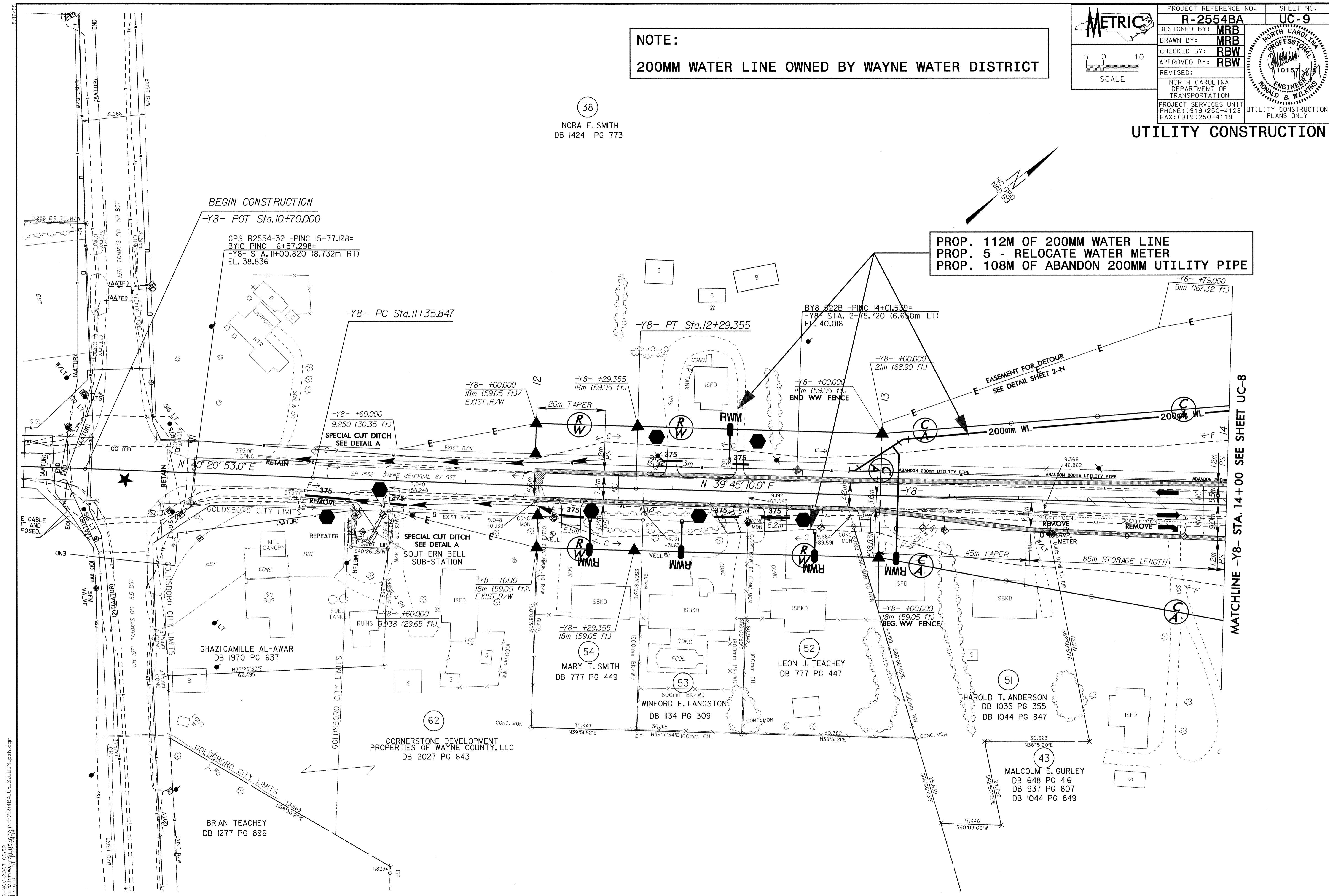
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R-2554BA	UC-9
DESIGNED BY: MRB	
DRAWN BY: MRB	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

NOTE:
200MM WATER LINE OWNED BY WAYNE WATER DISTRICT

38
NORA F. SMITH
DB 1424 PG 773


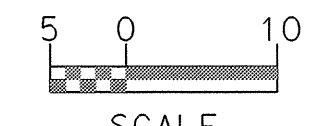
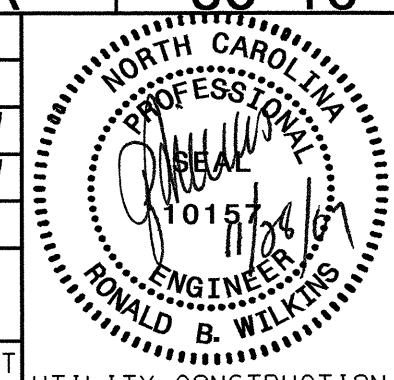
UTILITY CONSTRUCTION

PROP. 112M OF 200MM WATER LINE
PROP. 5 - RELOCATE WATER METER
PROP. 108M OF ABANDON 200MM UTILITY PIPE



MATCHLINE -Y8- STA. 14+00 SEE SHEET UC-8

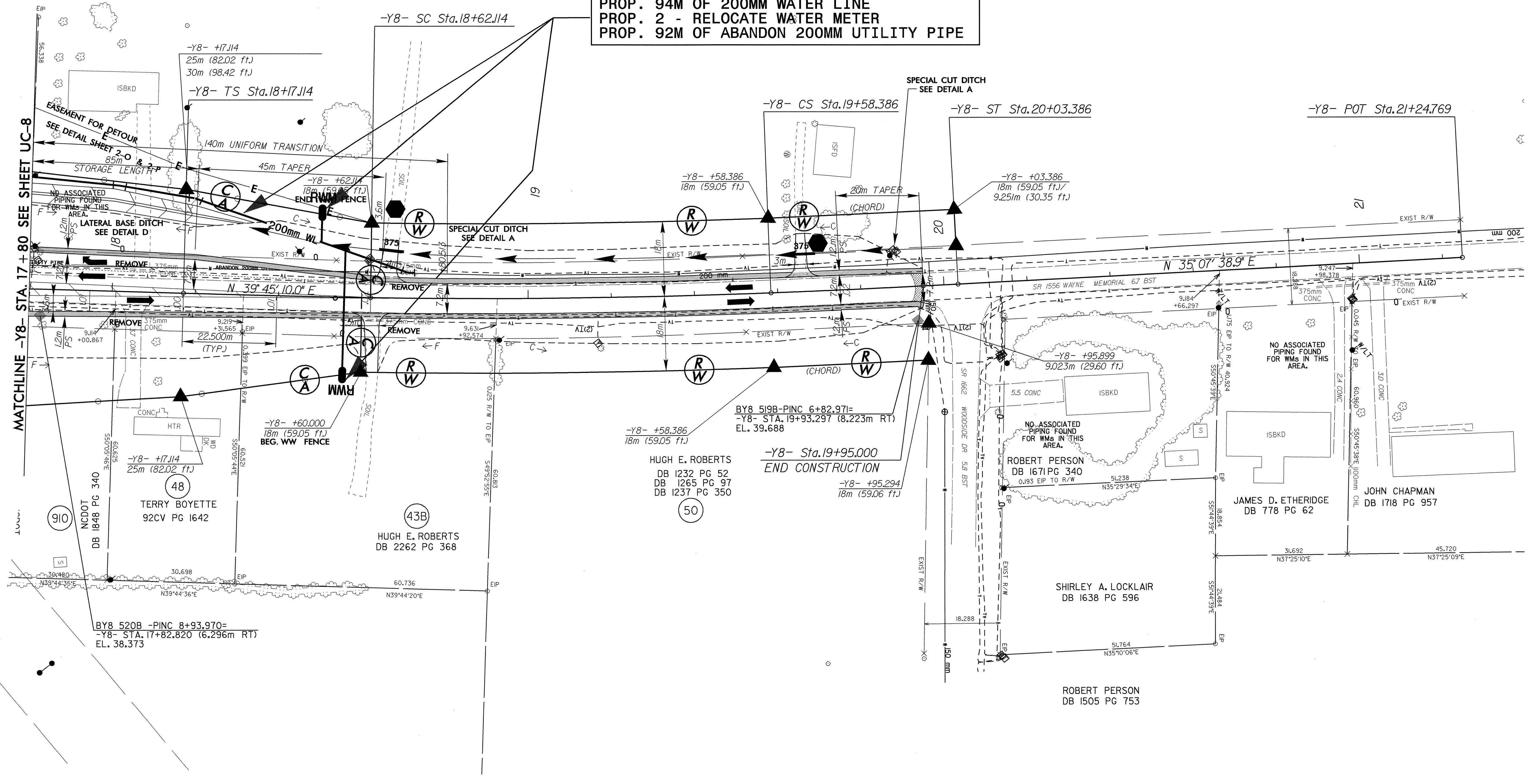
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  SCALE	PROJECT REFERENCE NO.	SHEET NO.
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DESIGNED BY: MRB		
DRAWN BY: MRB		
CHECKED BY: RBW		
APPROVED BY: RBW		
REVISER:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919)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

NOTE:
 200MM WATER LINE OWNED BY WAYNE WATER DISTRICT

40
 JOAN CRUMPLER JOYNER
 DB 1551 PG 491

PROP. 94M OF 200MM WATER LINE
 PROP. 2 - RELOCATE WATER METER
 PROP. 92M OF ABANDON 200MM UTILITY PIPE

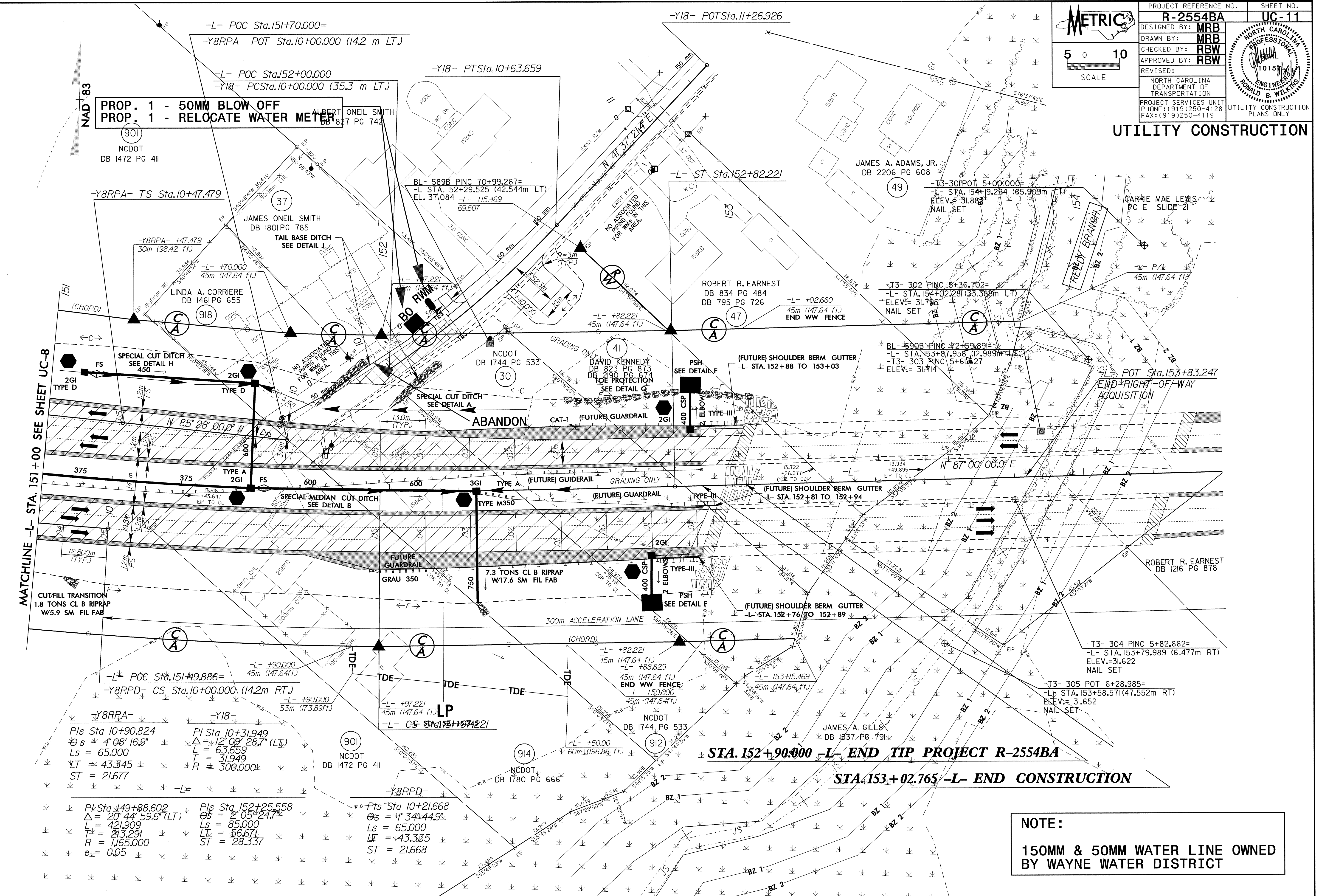


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 8/17/09

METRIC

5 0 10
SCALE

PROJECT REFERENCE NO.	R-2554BA	SHEET NO.	UC-11
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			



PROP. 1 - 50MM BLOW OFF
PROP. 1 - RELOCATE WATER METERS

MATCHLINE -L- STA. 151+00 SEE SHEET UC-8

STA. 152+90.000 -L- END TIP PROJECT R-2554BA
STA. 153+02.765 -L- END CONSTRUCTION

NOTE:
150MM & 50MM WATER LINE OWNED BY WAYNE WATER DISTRICT

-L- POC Sta. 151+19.886=
-Y8RPD- CS Sta. 10+00.000 (14.2m RTJ)
-Y8RPA- -Y18-
Pls Sta 10+90.824
Δs = 4' 08" 16.8"
Ls = 65.000
LT = 43.345
ST = 21.677

Pk Sta 149+88.602
Δ = 20' 44" 59.6" (LT)
L = 421.909
Tk = 213.291
R = 1,65.000
ex = 0.05

Pls Sta 152+25.558
Δs = 2' 05" 24.7"
Ls = 85.000
LT = 56.671
ST = 28.337

Pls Sta 10+21.668
Δs = 4' 34" 44.9"
Ls = 65.000
LT = 43.335
ST = 21.668

18 NOV 2007 14:22
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METRIC
NTS
SCALE

PROJECT REFERENCE NO. R-2554BA
SHEET NO. UC-12

DESIGNED BY: MRB
DRAWN BY: MRB
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:

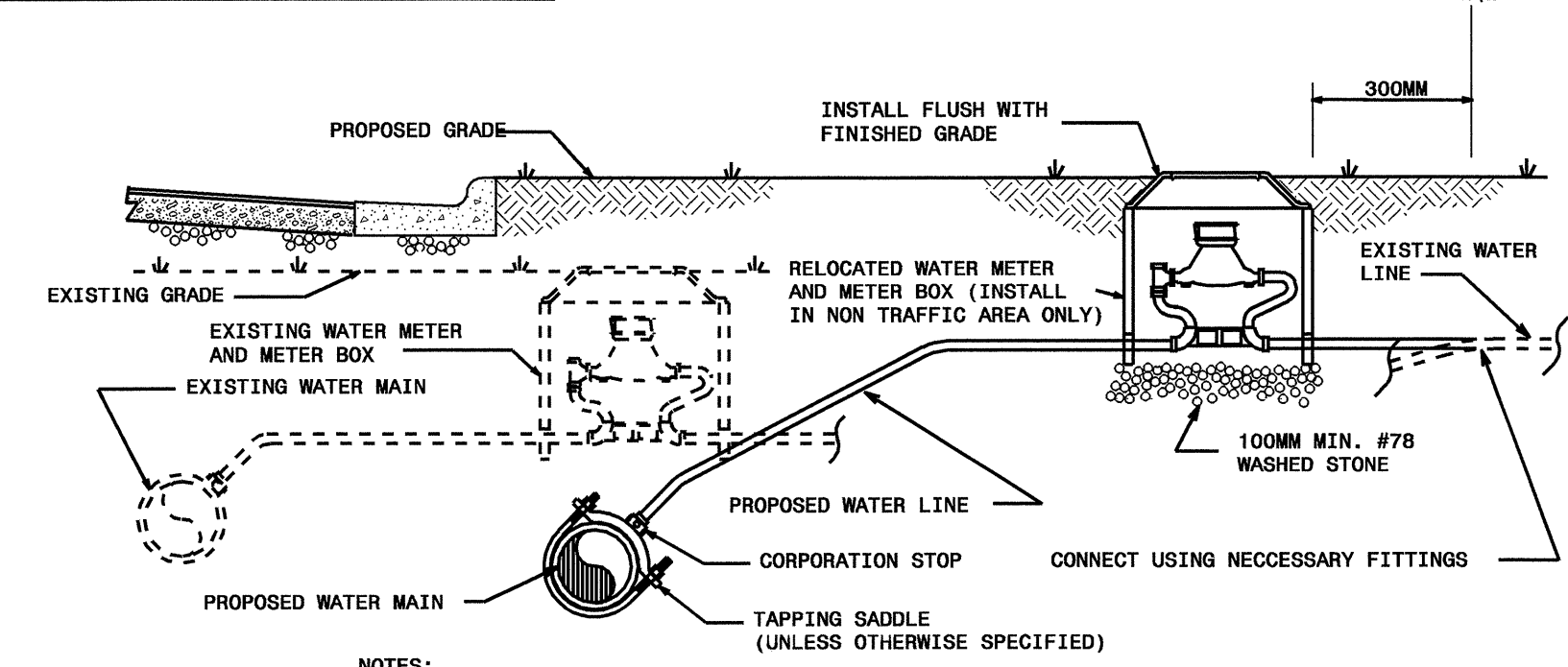
NORTH CAROLINA PROFESSIONAL ENGINEER
RONALD B. WILKINS
0157

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
PROJECT SERVICES UNIT
PHONE: (919)250-4128
FAX: (919)250-4119

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

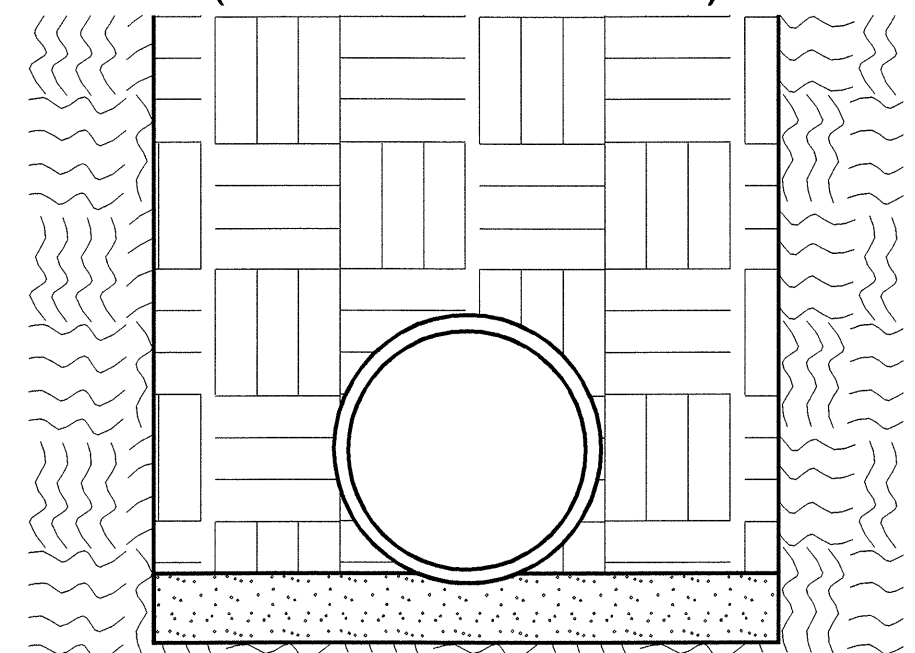
NOTE: TAPPING SADDLE, CORPORATION STOP, 20MM COPPER WATER PIPE, TYPE K INCIDENTAL TO RELOCATE WATER METER



- NOTES:
1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, METER BOX WITH LID AND BACKFLOW PREVENTER.
 2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 900MM COVER BELOW FINISHED GRADE.

WATER METER RELOCATION DETAIL

TYPE "3"
(BEDDING FOR D.I. PIPE)

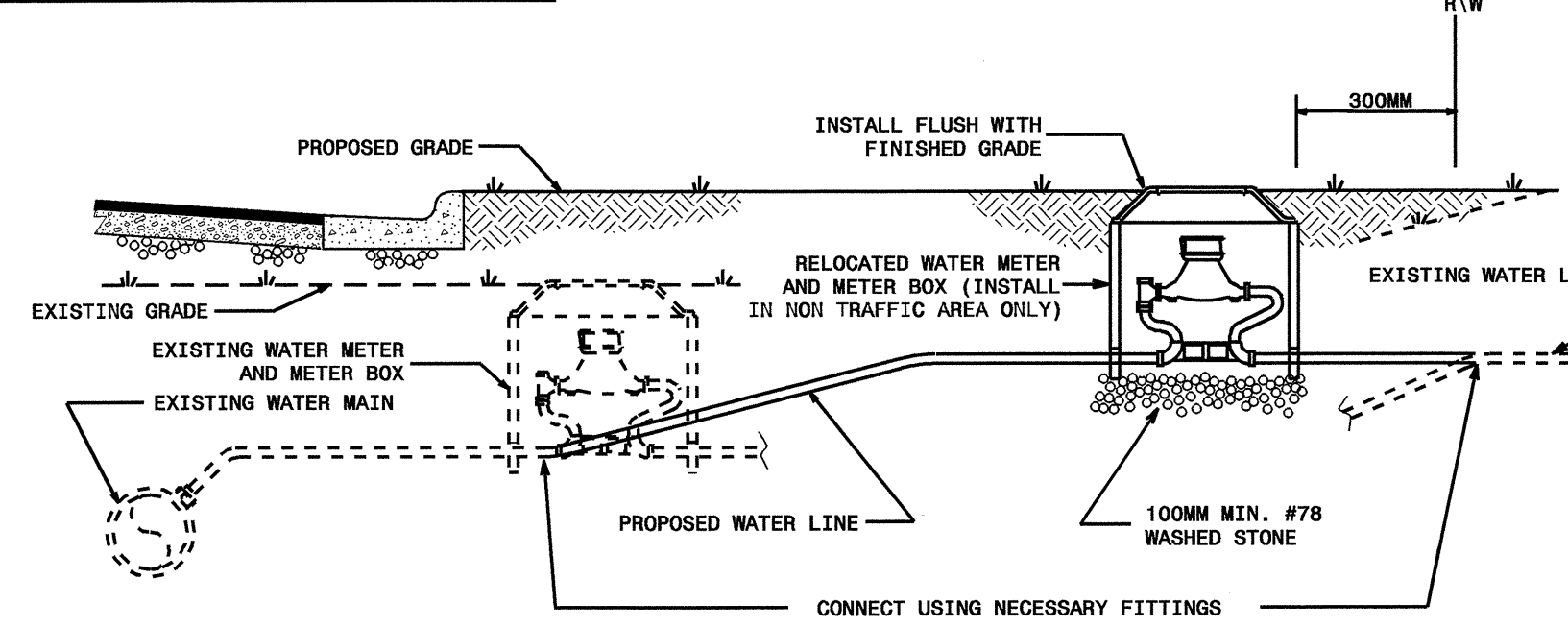


PIPE BEDDED IN 100MM MINIMUM LOOSE SOIL. TRENCH BACKFILLED IN LOOSE 150mm LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (meters)	NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (meters)
100	0.72	500	1.12
150	0.76	610	1.22
200	0.81	750	1.37
250	0.86	900	1.57
300	0.91	1050	1.68
350	0.97	1200	1.83
400	1.02	1400	1.98
450	1.07		

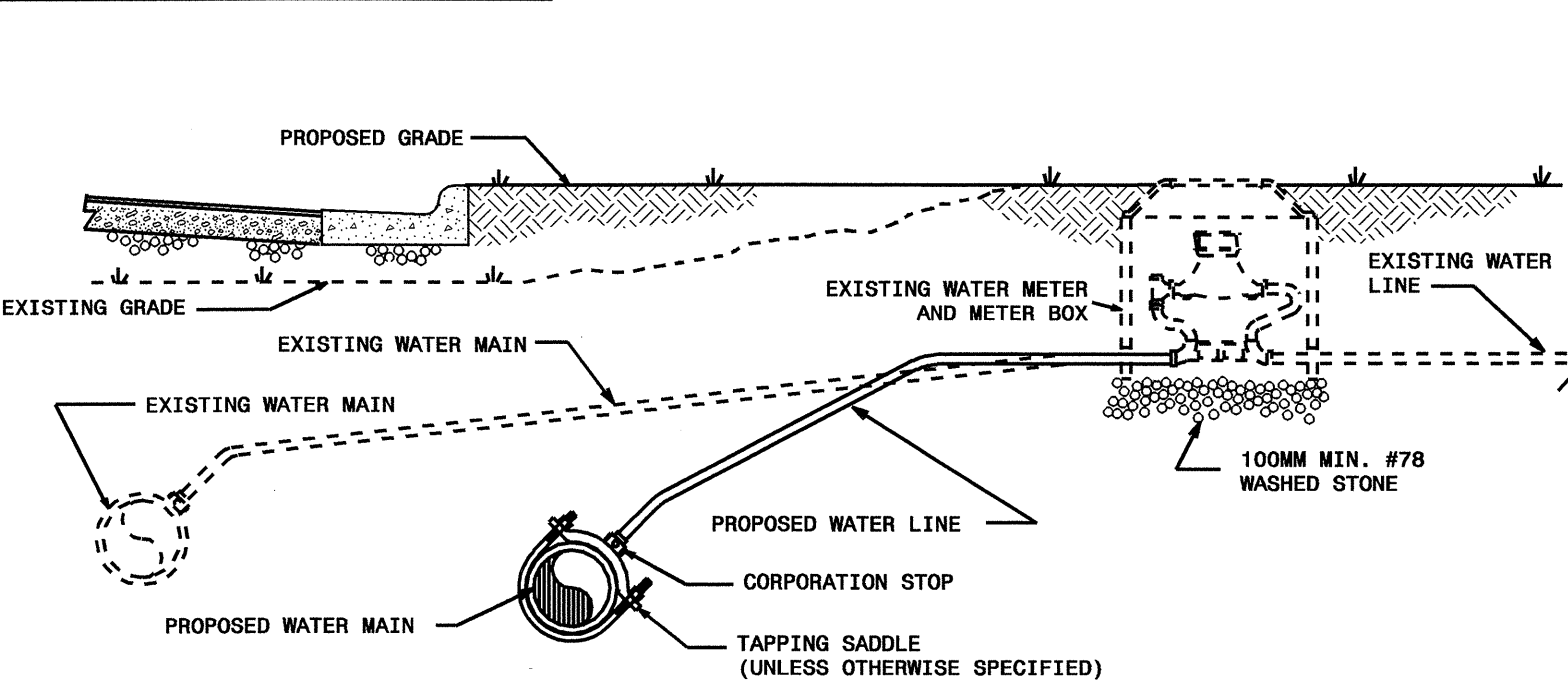
NOTE: TAPPING SADDLE, CORPORATION STOP, 20MM COPPER WATER PIPE, TYPE K INCIDENTAL TO RELOCATE WATER METER



- NOTES:
1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, METER BOX WITH LID AND BACKFLOW PREVENTER.
 2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 900MM COVER BELOW FINISHED GRADE.

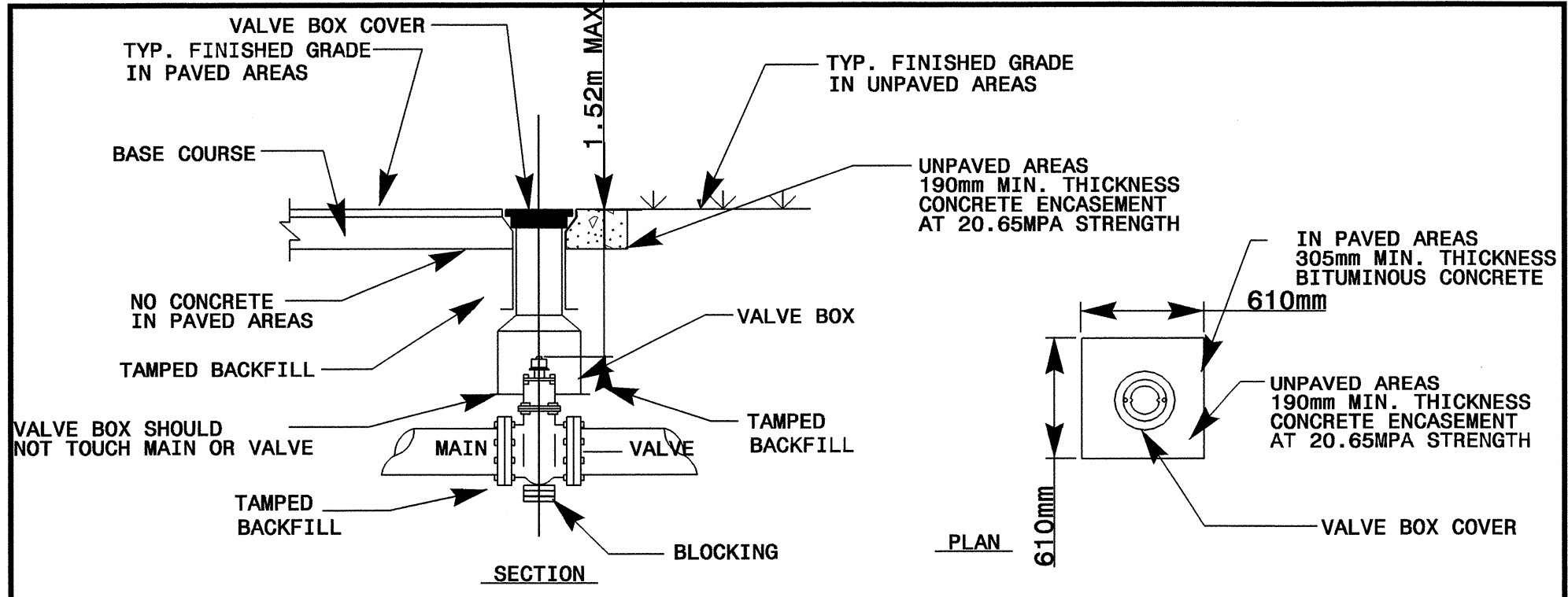
WATER METER RELOCATION DETAIL

NOTE: TAPPING SADDLE, CORPORATION STOP, 20MM COPPER WATER PIPE, TYPE K INCIDENTAL TO RECONNECT WATER METER



- NOTES:
1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 900MM COVER BELOW FINISHED GRADE.

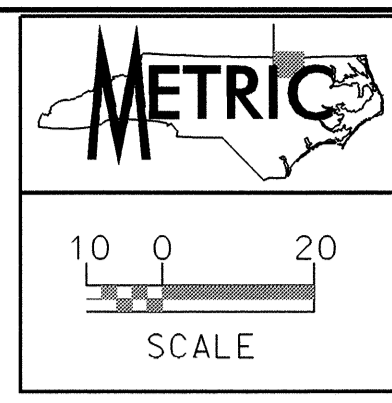
RECONNECT EXISTING WATER METER DETAIL



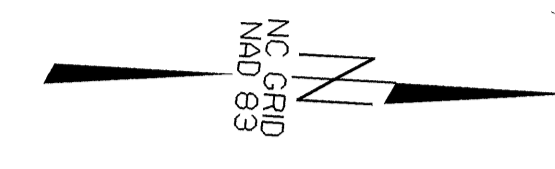
- NOTES:
1. DUCTILE IRON PIPE MAY BE USED FOR VALVE BOX EXTENSIONS.
 2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 1.52m FROM THE SURFACE KIT EXTENSION KIT.
 3. PRECAST CONCRETE ENCASUREMENT IS ALLOWED OUTSIDE OF PAVED AREAS.

STANDARD VALVE BOX INSTALLATION

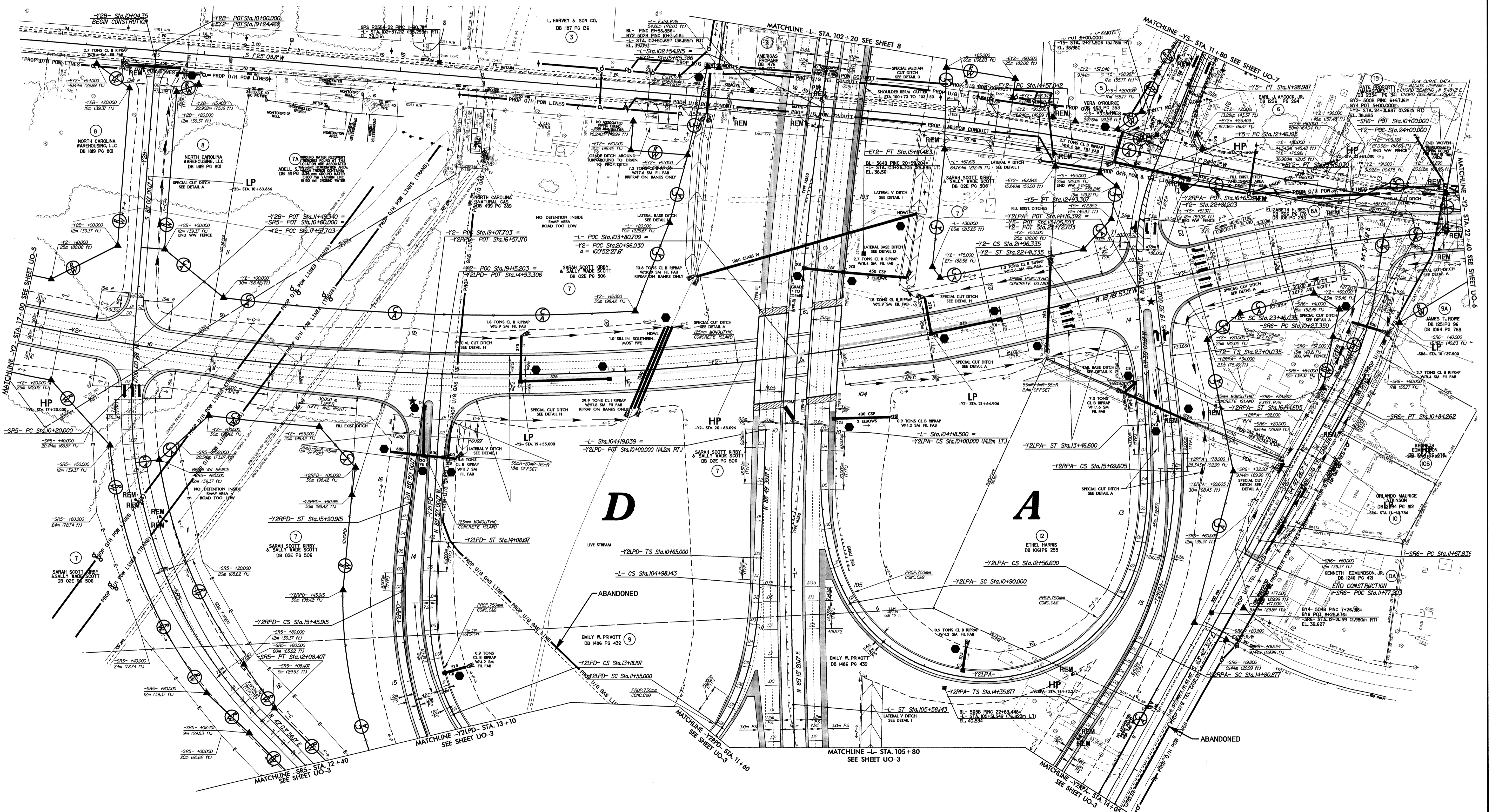
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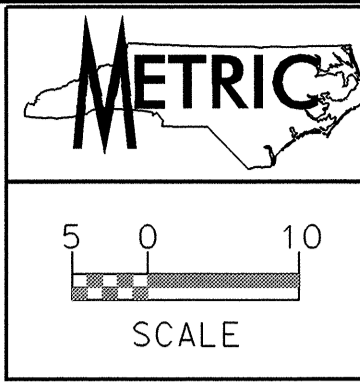


NOTE:
ALL PROPOSED UTILITY WORK
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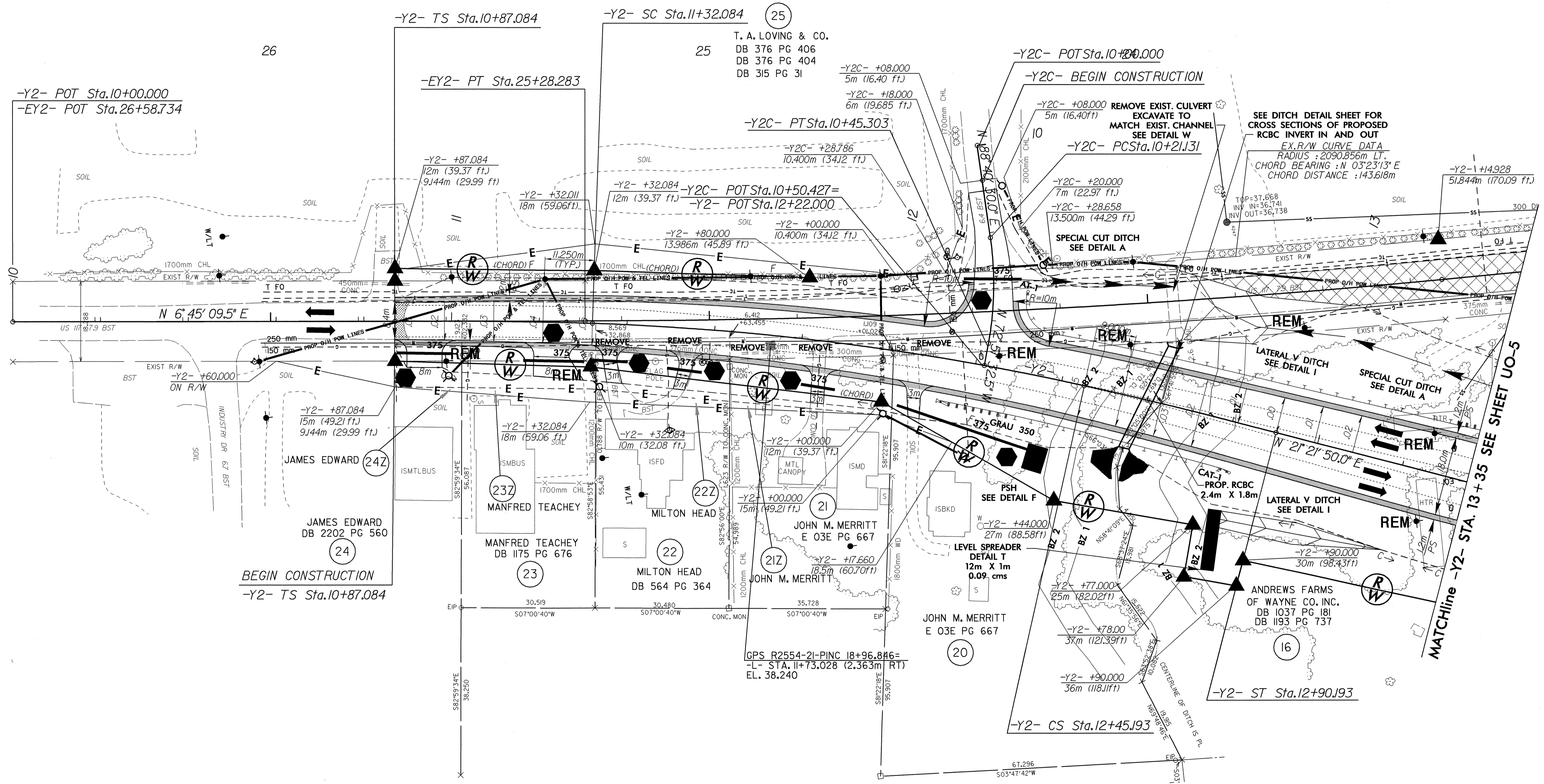


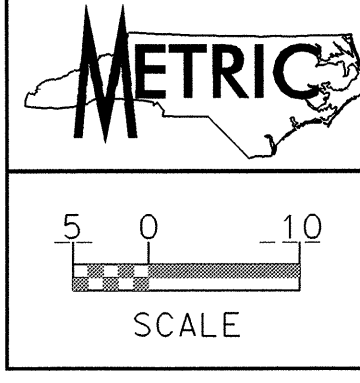
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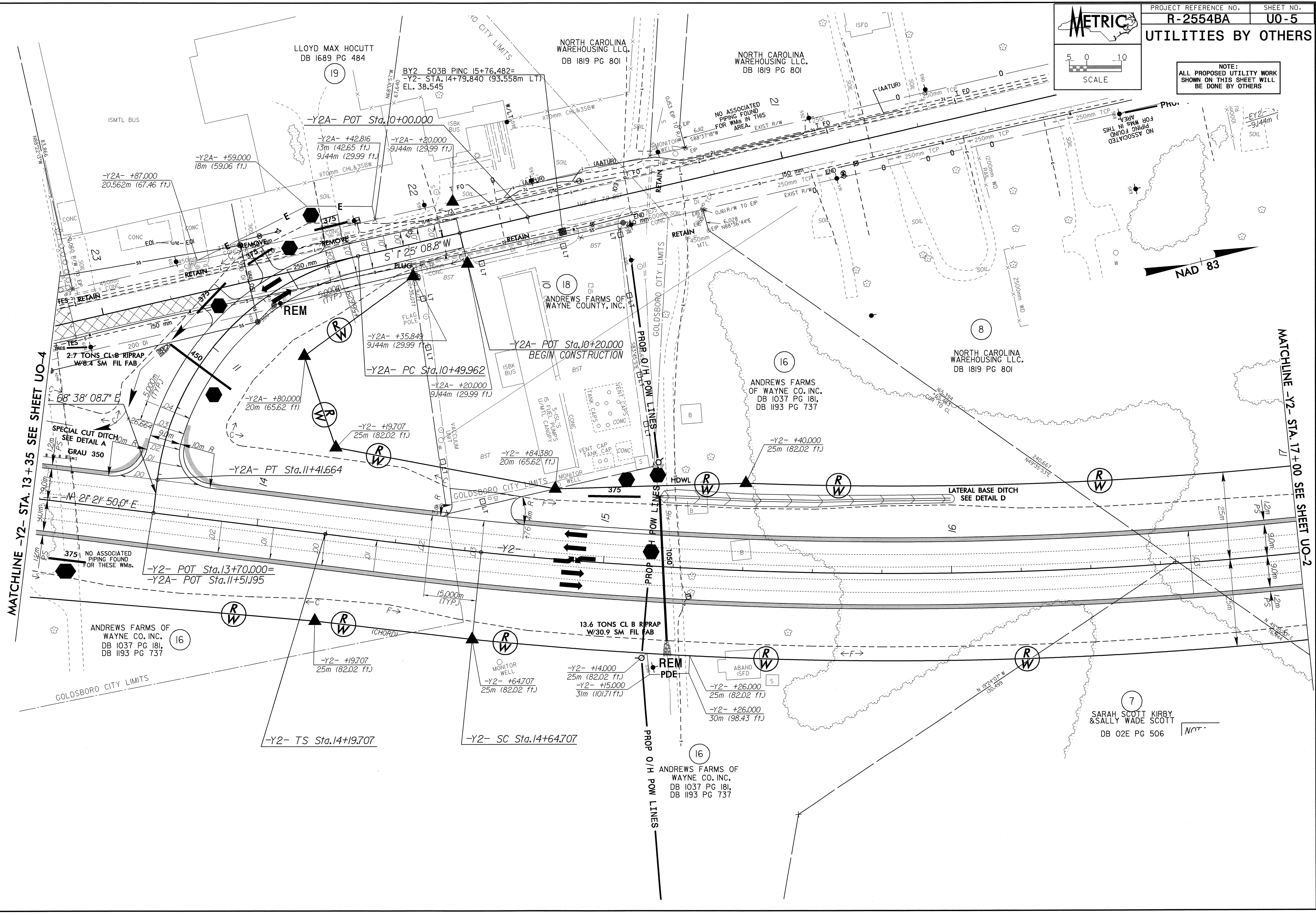


NOTE:
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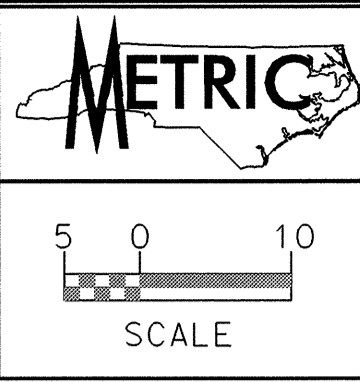


NOTE:
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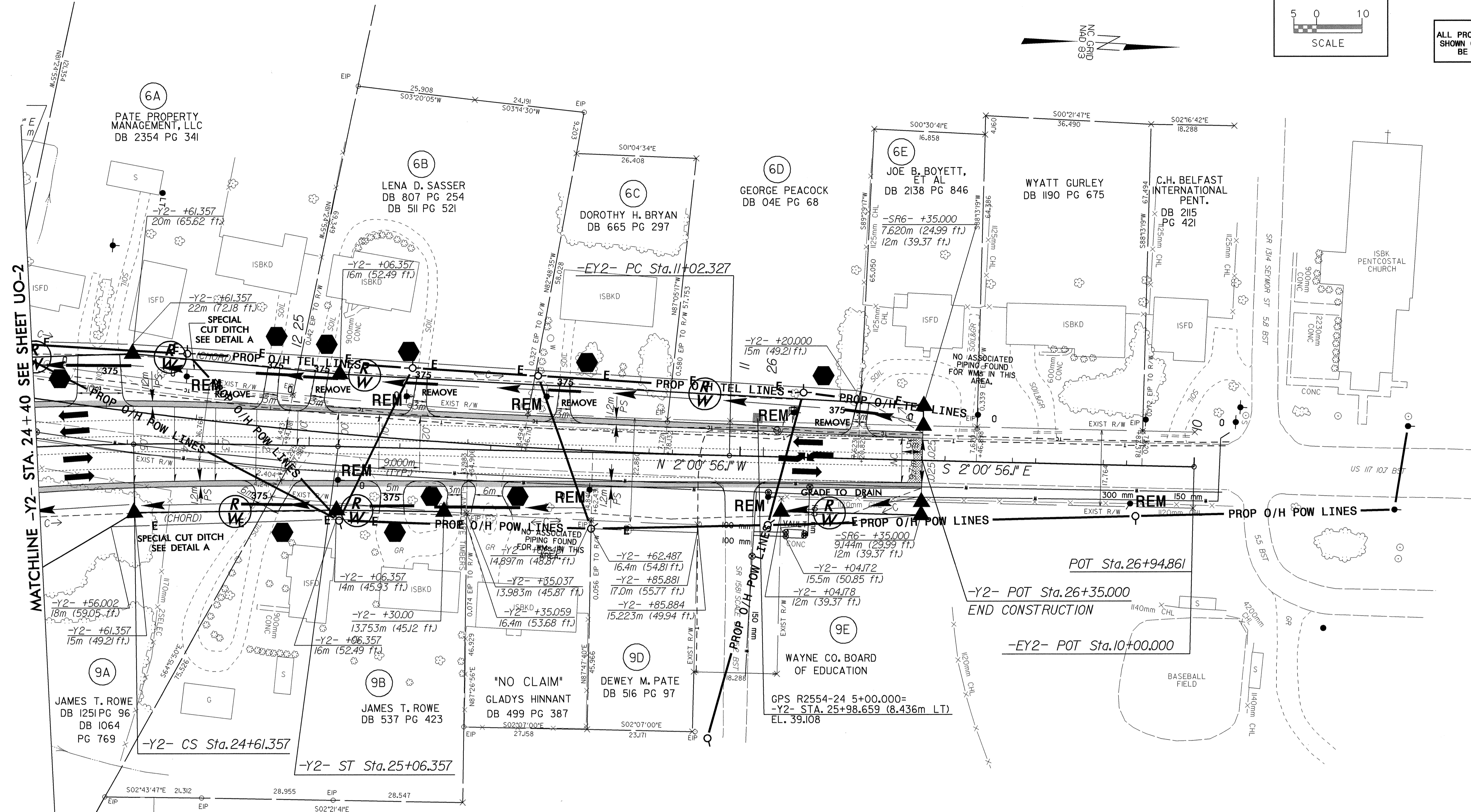


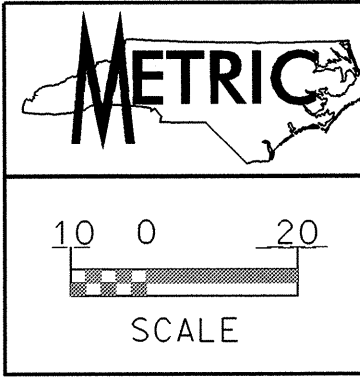
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MATCHLINE -Y2- STA. 17+00 SEE SHEET UO-2

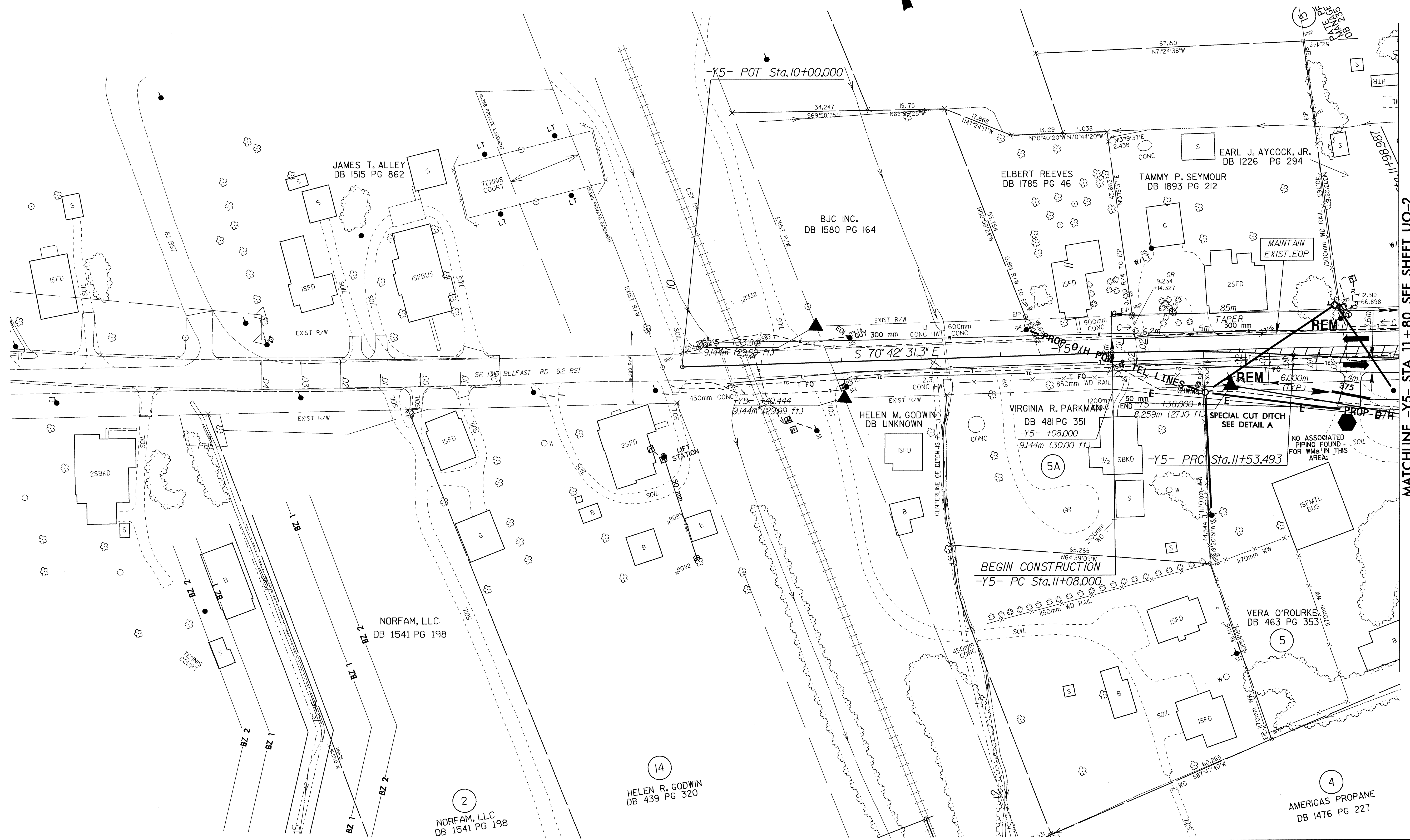
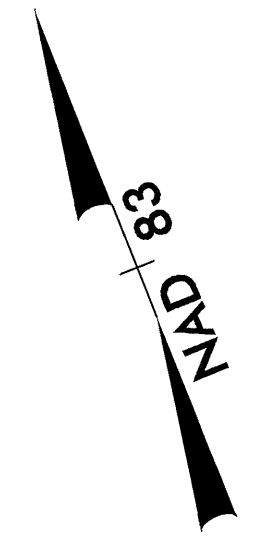


NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS





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



MATCHLINE -Y5- STA. 11 + 80 SEE SHEET U0-2

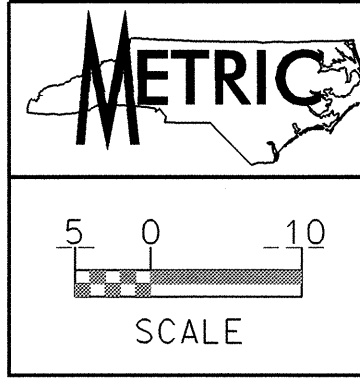
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ARDETH L. SCOTT
DB 1551PG 55

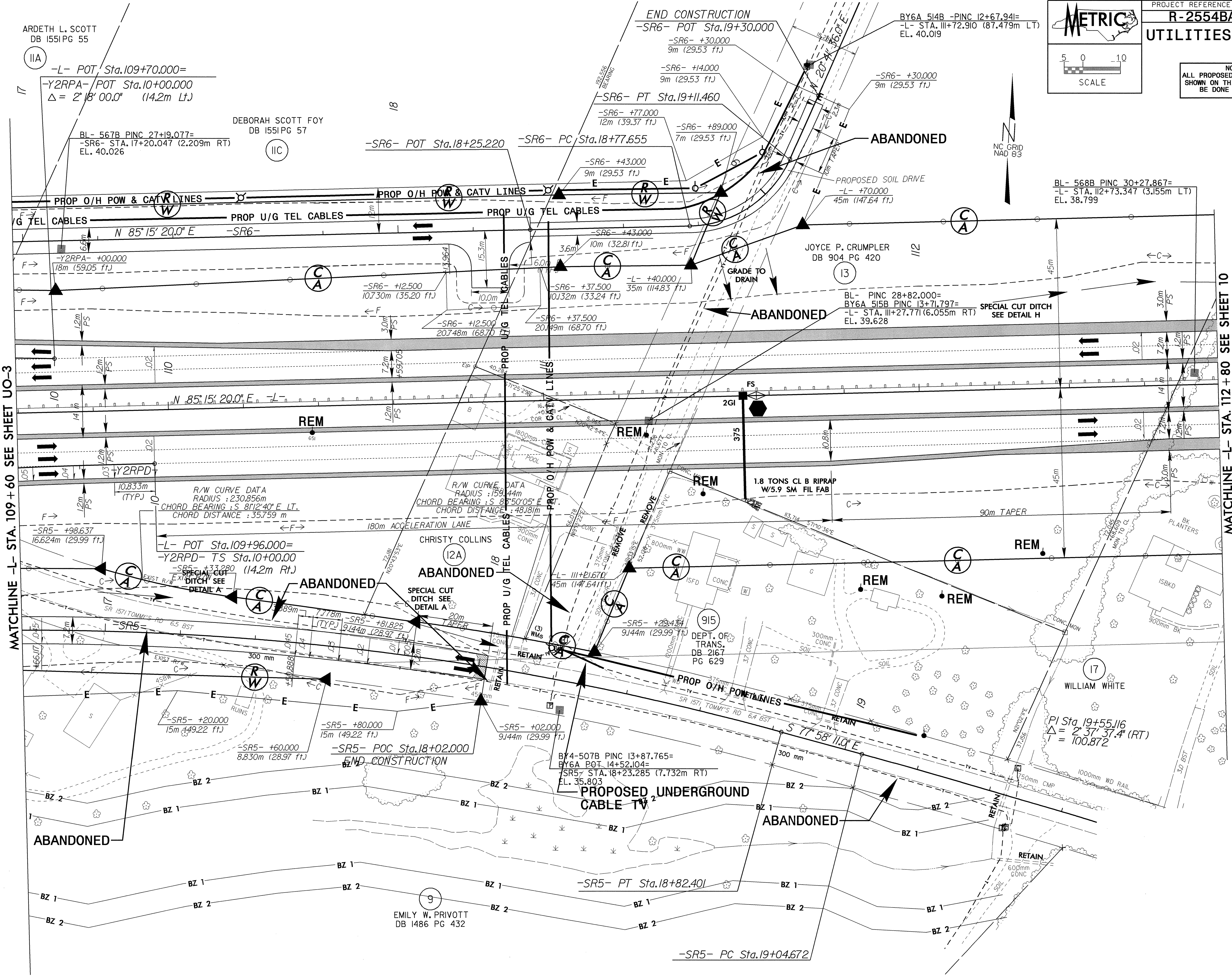
DEBORAH SCOTT FOY
DB 1551PG 57

EMILY W. PRIVOTT
DB 1486 PG 432



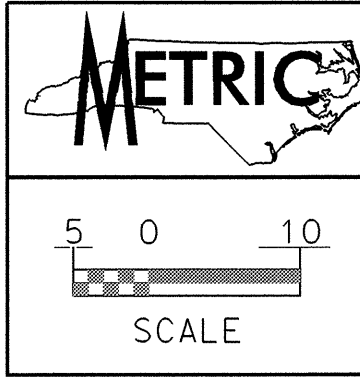
PROJECT REFERENCE NO.	SHEET NO.
R-2554BA	U0-9
UTILITIES BY OTHERS	

NOTE:
ALL PROPOSED UTILITY WORK
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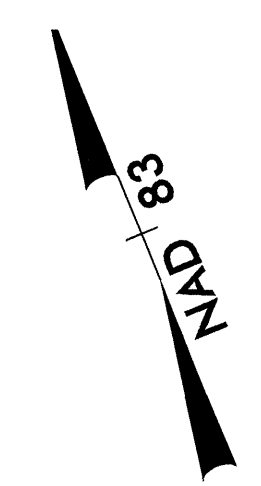


MATCHLINE -L- STA. 109 + 60 SEE SHEET UO-3

MATCHLINE -L- STA. 112 + 80 SEE SHEET 10



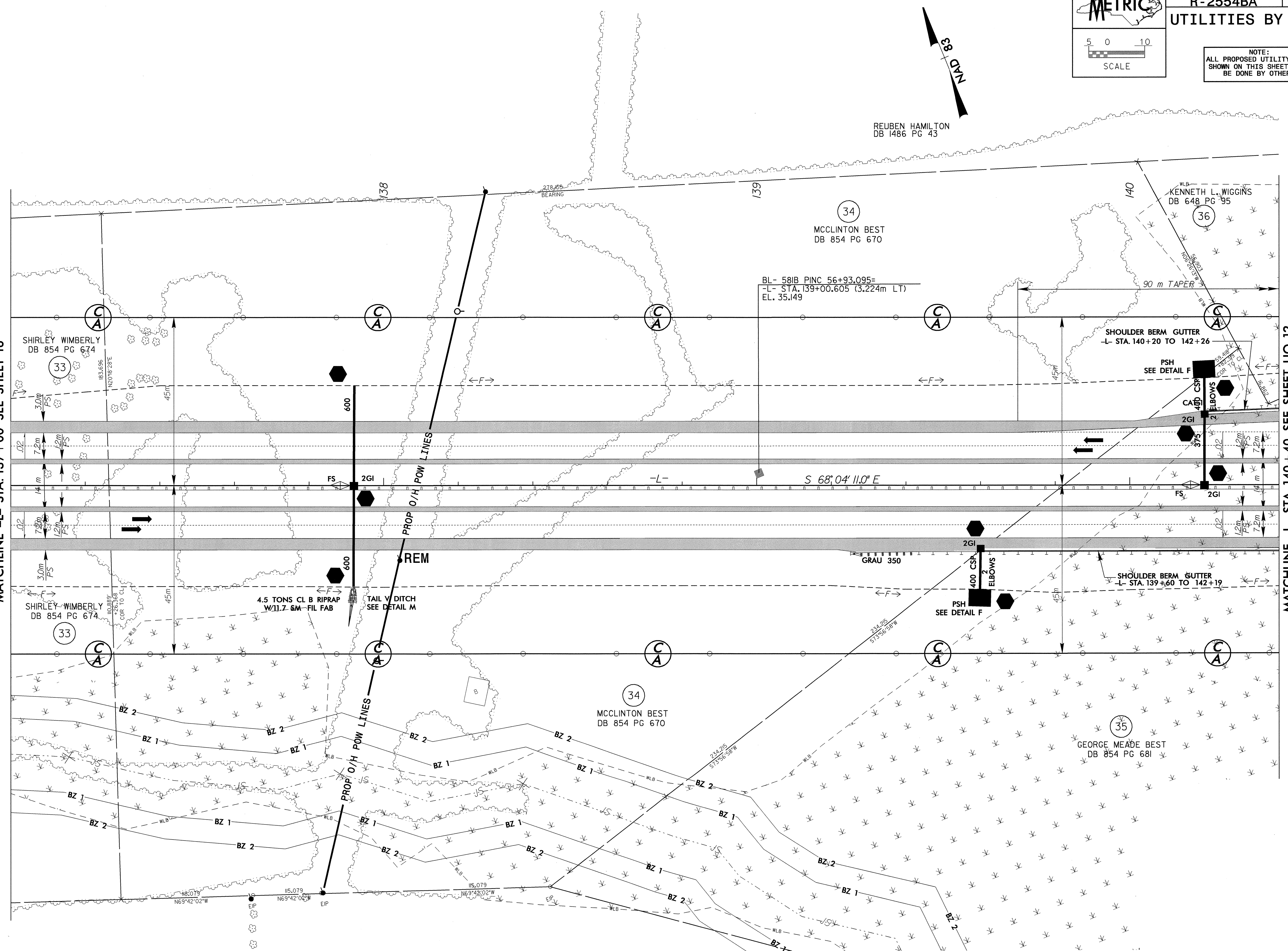
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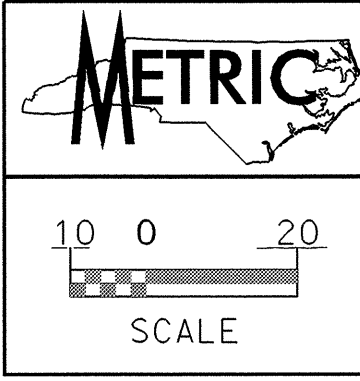
REUBEN HAMILTON
DB 1486 PG 43

MATCHLINE -L- STA. 137+00 SEE SHEET 16

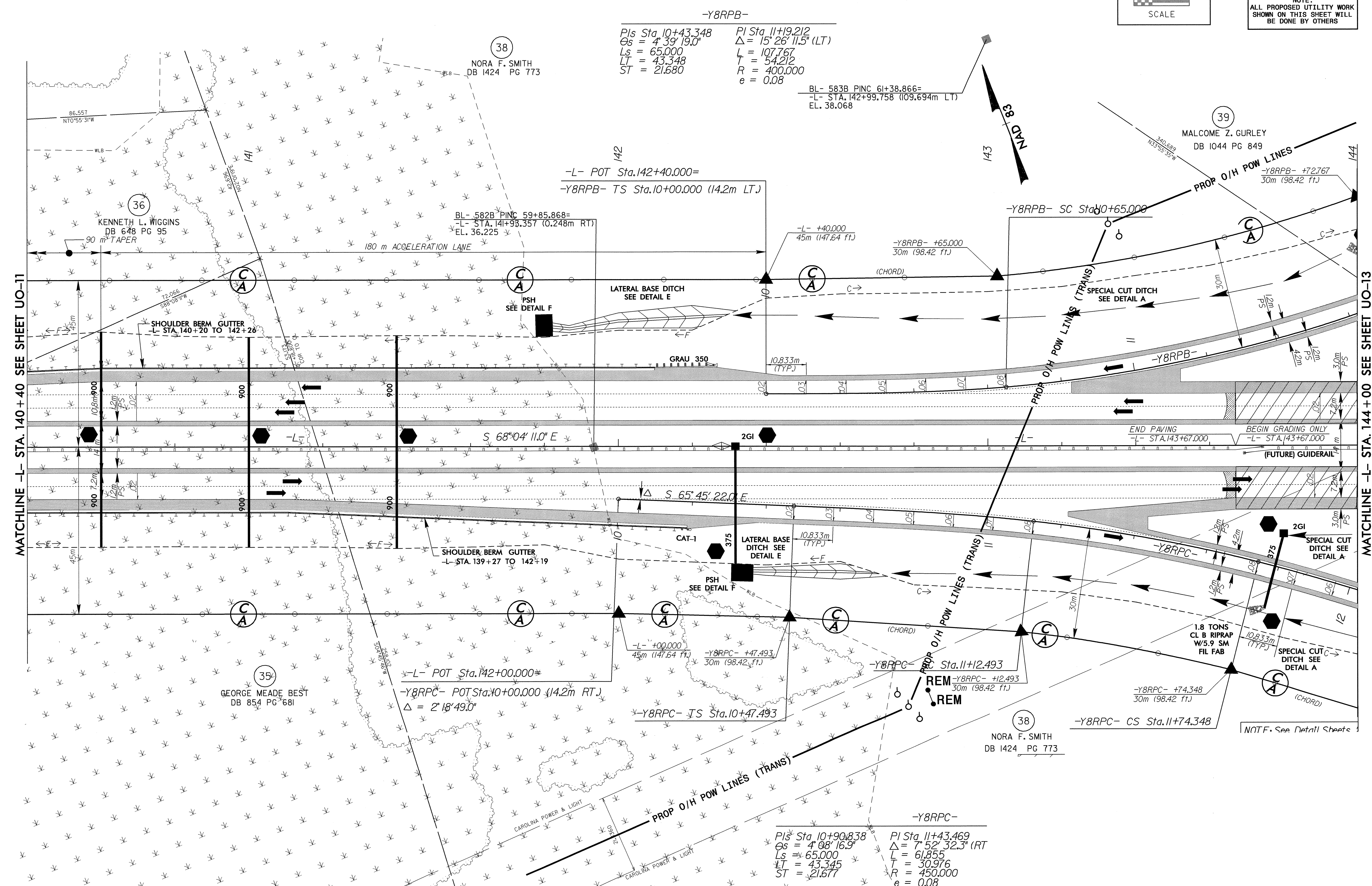
MATCHLINE -L- STA. 140+40 SEE SHEET UO-12



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 8/17/08



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



-Y8RPB-
 Pls Sta 10+43.348 PI Sta 11+19.212
 $\Delta = 4' 39' 19.0''$ $\Delta = 15' 26' 11.5''$ (LT)
 $L_s = 65.000$ $L = 107.767$
 $LT = 43.348$ $T = 54.212$
 $ST = 21.680$ $R = 400.000$
 $e = 0.08$

BL- 583B PINC 61+38.866=
 -L- STA. 142+99.758 (109.694m LT)
 EL. 38.068

BL- 582B PINC 59+85.868=
 -L- STA. 141+98.357 (0.248m RT)
 EL. 36.225

KENNETH L. WIGGINS
 DB 648 PG 95

MALCOLME Z. GURLEY
 DB 1044 PG 849

GEORGE MEADE BEST
 DB 854 PG 681

NORA F. SMITH
 DB 1424 PG 773

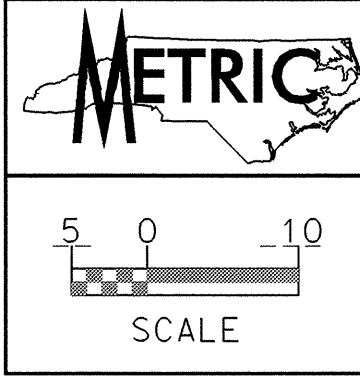
-Y8RPC-
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 $LT = 43.345$ $T = 30.976$
 $ST = 21.677$ $R = 450.000$
 $e = 0.08$

MATCHLINE -L- STA. 140+40 SEE SHEET UO-11

MATCHLINE -L- STA. 144+00 SEE SHEET UO-13

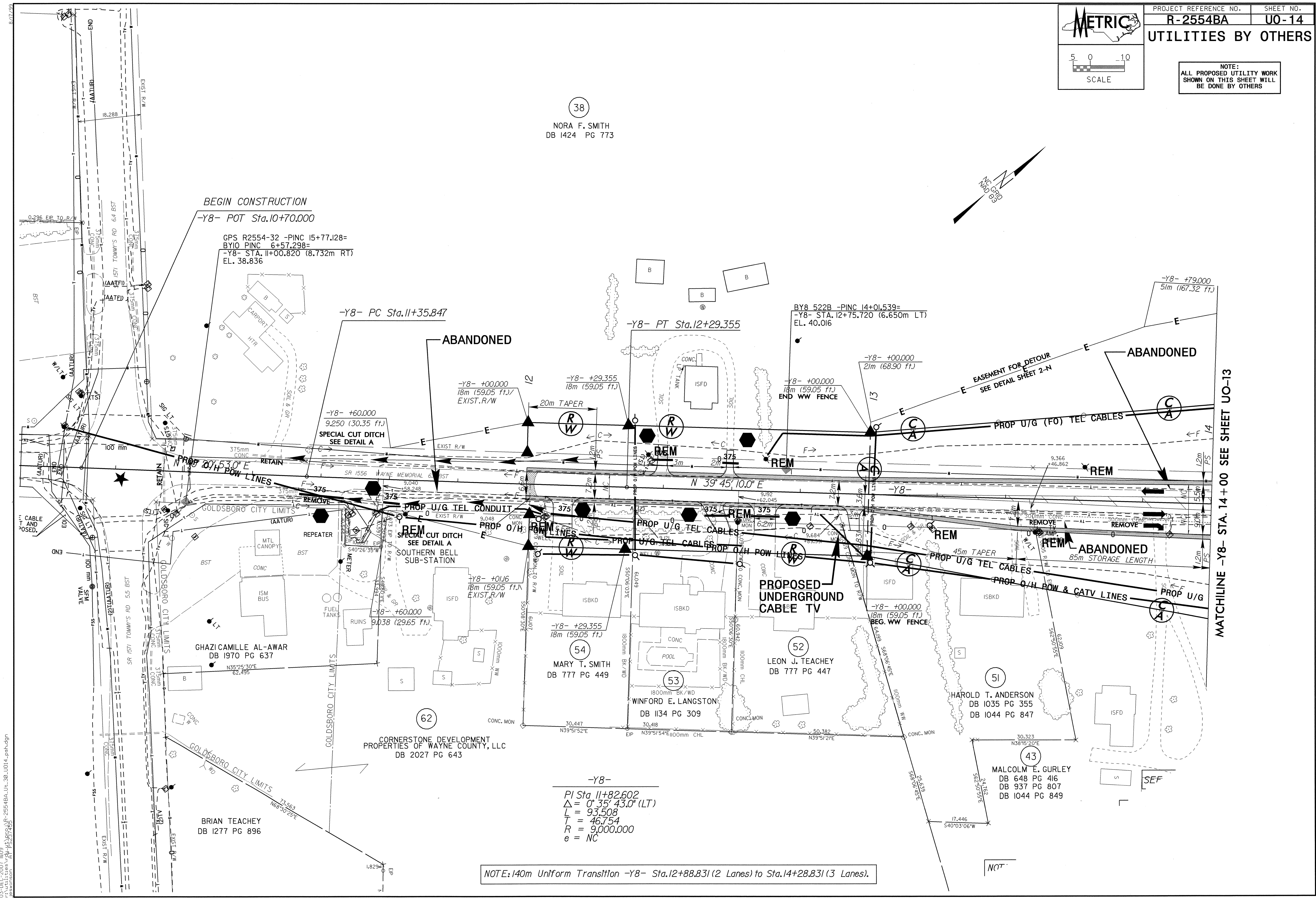
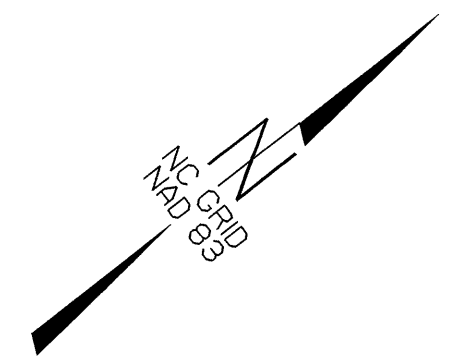
NOTE: See Detail Sheets

03-DEC-2007 14:41
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 8/17/08



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

38
NORA F. SMITH
DB 1424 PG 773

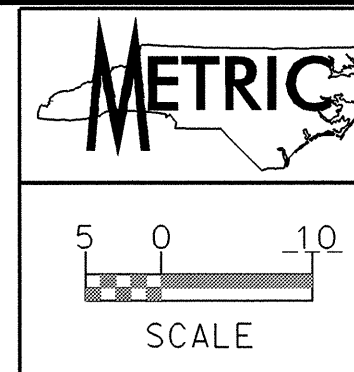


-Y8-
PI Sta. 11+82.602
 $\Delta = 0^\circ 35' 43.0''$ (LT)
L = 93.508
T = 46.754
R = 9,000.000
e = NC

NOTE: 140m Uniform Transition -Y8- Sta. 12+88.831 (2 Lanes) to Sta. 14+28.831 (3 Lanes).

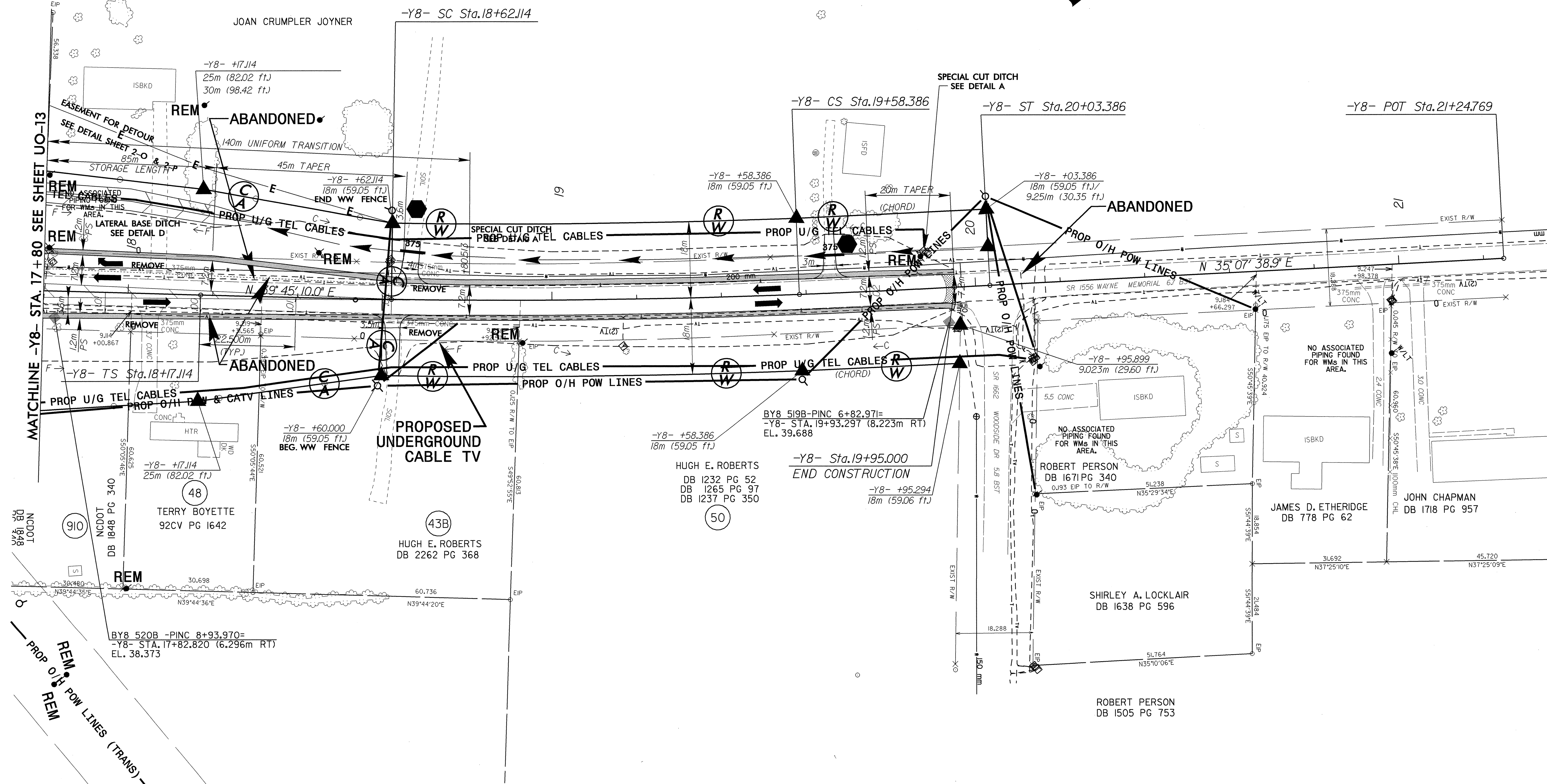
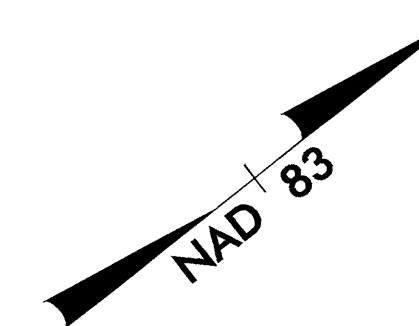
MATCHLINE -Y8- STA. 14 + 00 SEE SHEET UO-13

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NORA F. SMITH

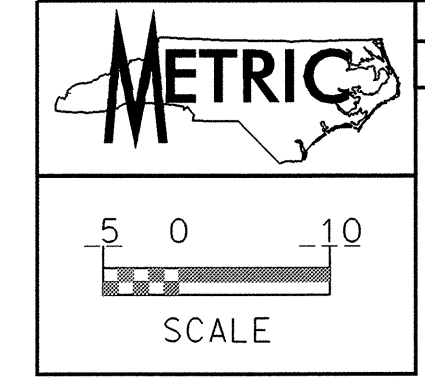


NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

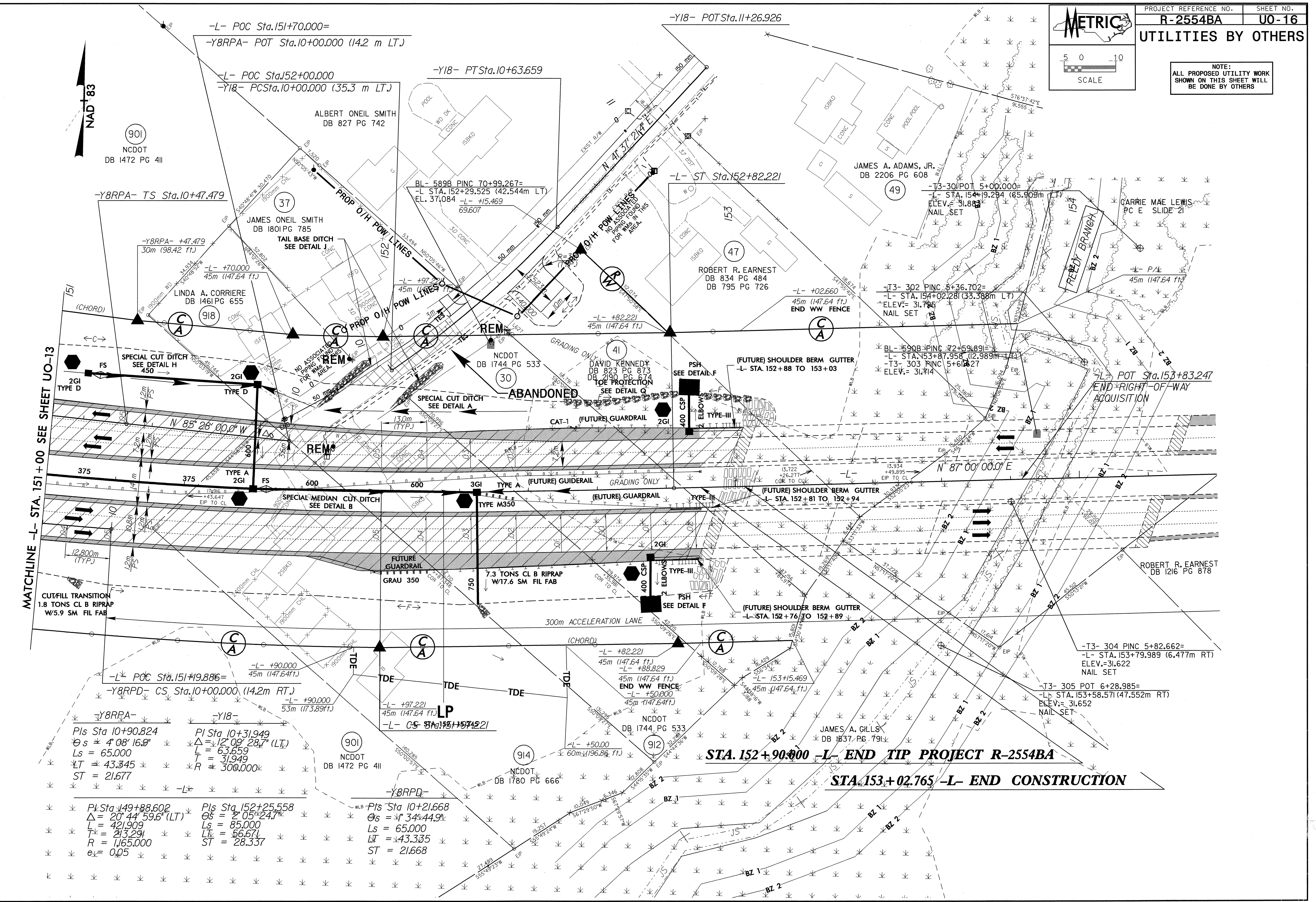
40
JOAN CRUMPLER JOYNER
DB 1551 PG 491



03-DEC-2007 11:03
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 jcrumple



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



MATCHLINE -L- STA. 151+00 SEE SHEET UO-13

$\Delta s = 4' 08' 16.9''$
 $L_s = 65.000$
 $\Delta T = 43.345$
 $ST = 21.677$

$\Delta s = 2' 05' 24.7''$
 $L_s = 85.000$
 $\Delta T = 43.335$
 $ST = 28.337$

$\Delta s = 4' 34' 44.9''$
 $L_s = 65.000$
 $\Delta T = 43.335$
 $ST = 21.668$

03-DEC-2001 15:00
 R-2554BA-U0-16.dgn