STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

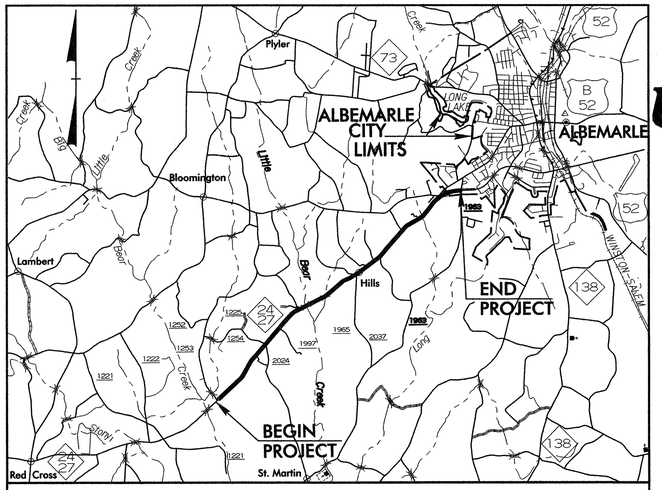
METRIC
ALL DIMENSIONS IN THESE PLANS ARE IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

| T.I.P. NO. | SHEET NO. |
|---|---|
| R-967CC | UC-0 |

# UTILITY CONSTRUCTION PLANS
# STANLY COUNTY

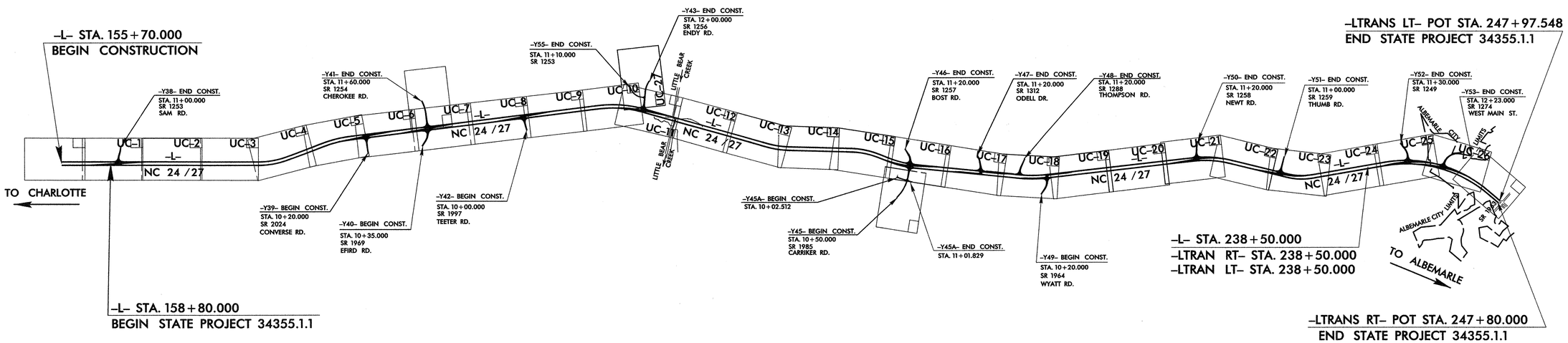
**LOCATION:** NC 24/27 FROM EAST OF BIG BEAR CREEK TO SR 1963 (OAKBORO RD. AND SAINT MARTIN RD.) IN ALBEMARLE.

**TYPE OF WORK:** UTILITIES RELOCATION




VICINITY MAP

NAD 83




## INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|---|---|
| UC-0 | TITLE SHEET |
| UC-1 THRU UC-27 | UTILITY CONSTRUCTION PLAN SHEETS |
| UC-28 THRU UC-43 | PROFILE SHEETS |
| UC-44 THRU UC-46 | DETAILS SHEETS |

CONFORM TO "2002 STANDARDS SPECIFICATIONS"

## WATER AND SEWER OWNERS ON PROJECT

(1) WATER : STANLY COUNTY UTILITIES/CITY OF ALBEMARLE
(2) SANITARY SEWER : CITY OF ALBEMARLE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON
1-10-05

UTILITY CONSTRUCTION PLANS PREPARED BY:


MULKEY ENGINEERS & CONSULTANTS
PO Box 33127
RALEIGH, N.C. 27636
(919) 851-1912
(919) 851-1918 (FAX)
WWW.MULKEYINC.COM


TIP: R-967CC

9/09/99

$$$$SYSTIME$$$$
$$$$IFNAME$$$$ $$$$PDN$$$$ $$$$ $$$$ $$$$ $$$$

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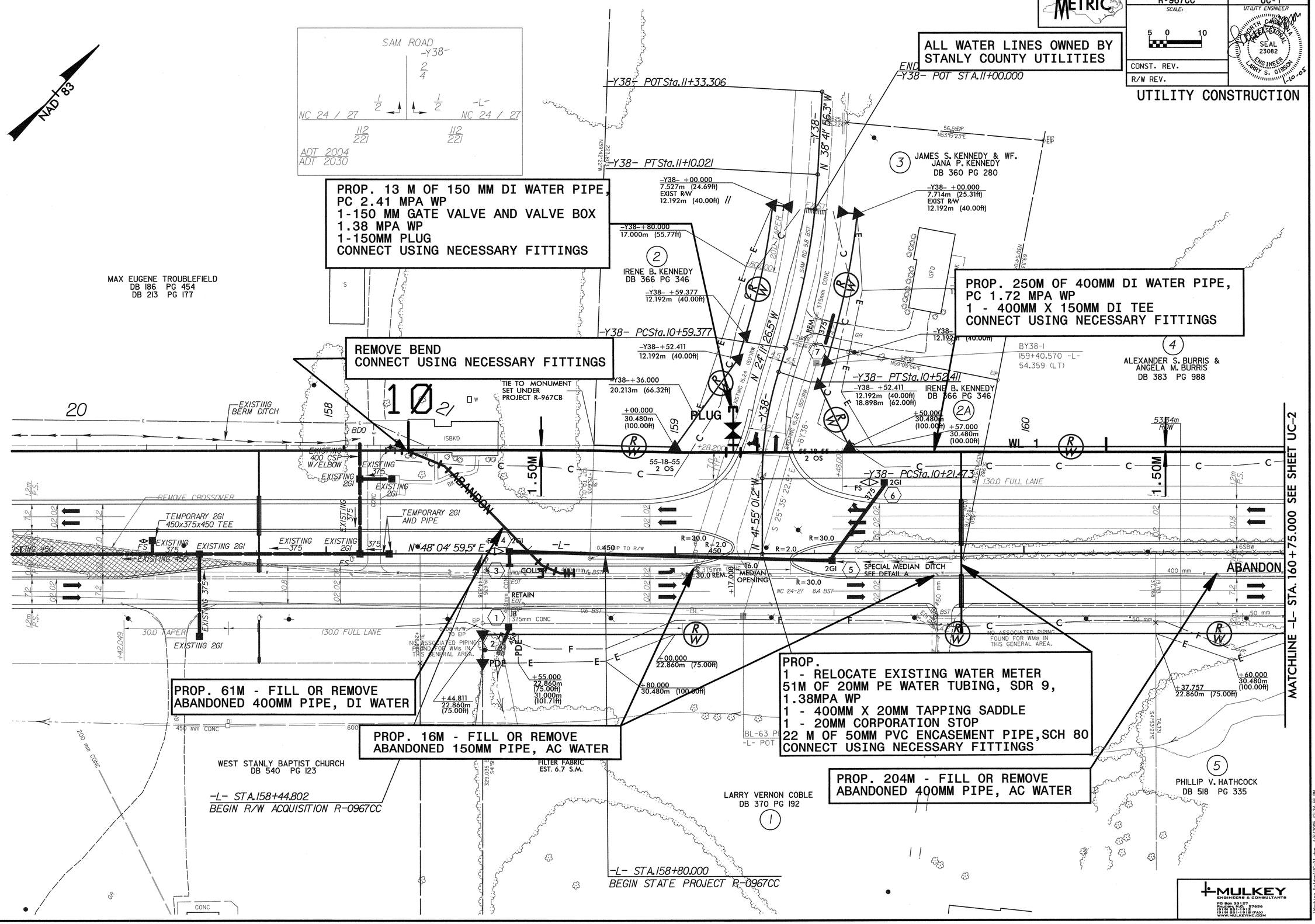
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-1 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1-10-05

# UTILITY CONSTRUCTION

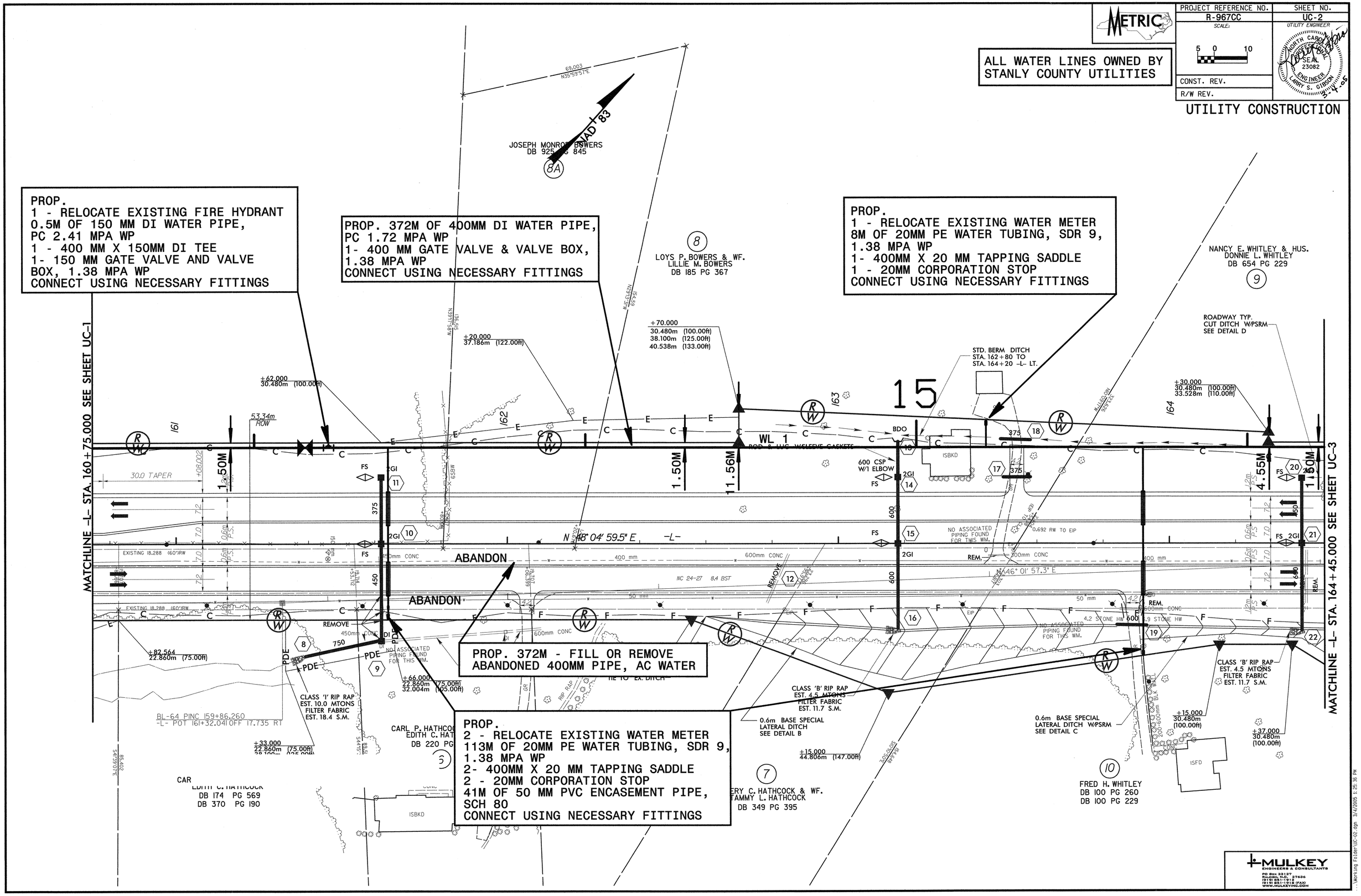


| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-2 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

# UTILITY CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-3 |
| SCALE: | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

5 0 10

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. O'BRIEN 1-18-05

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

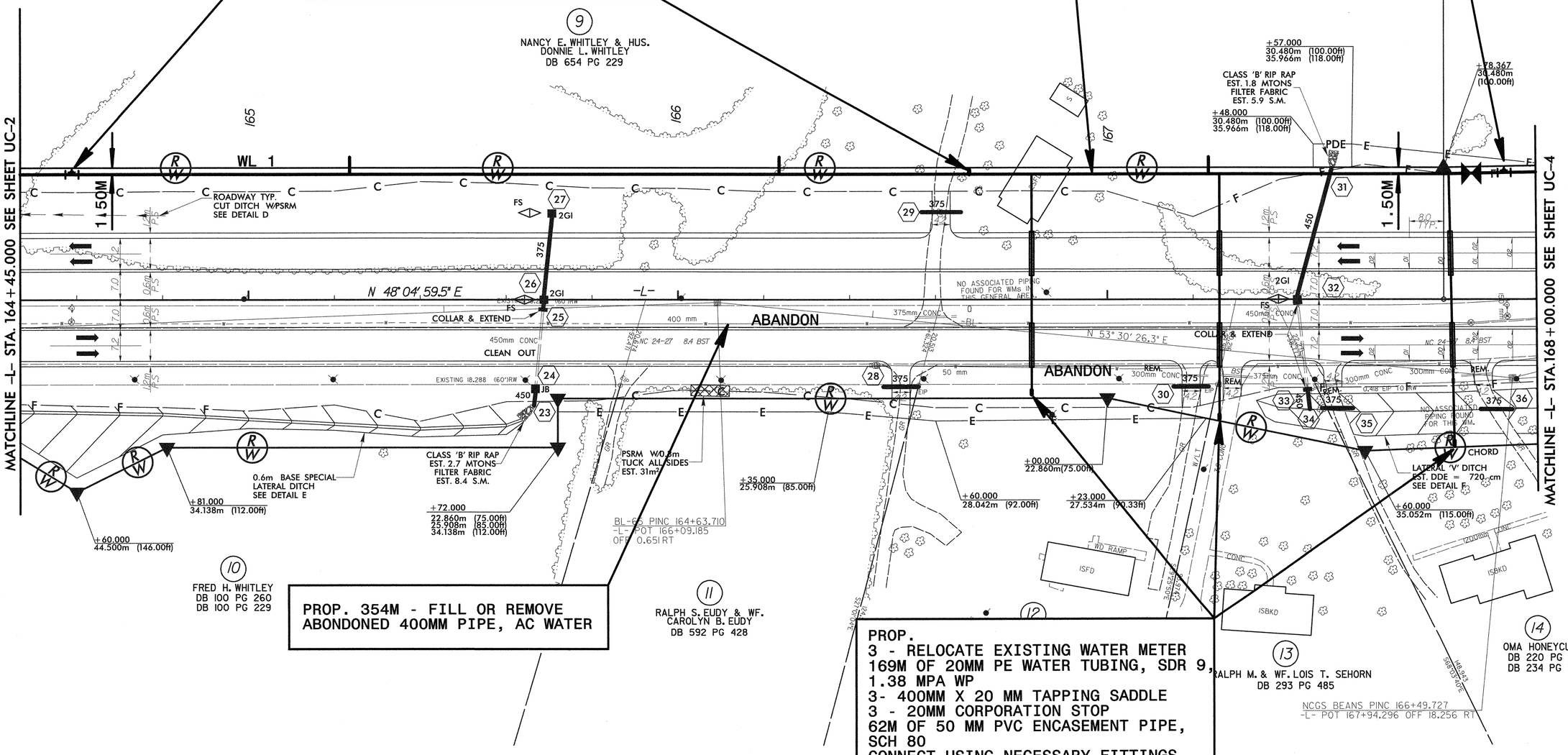
NAD 83

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 353M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
1 - 400MM GATE VALVE AND VALVE BOX,
1.38MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS




PROP. 354M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP.
3 - RELOCATE EXISTING WATER METER
169M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
3- 400MM X 20 MM TAPPING SADDLE
3 - 20MM CORPORATION STOP
62M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

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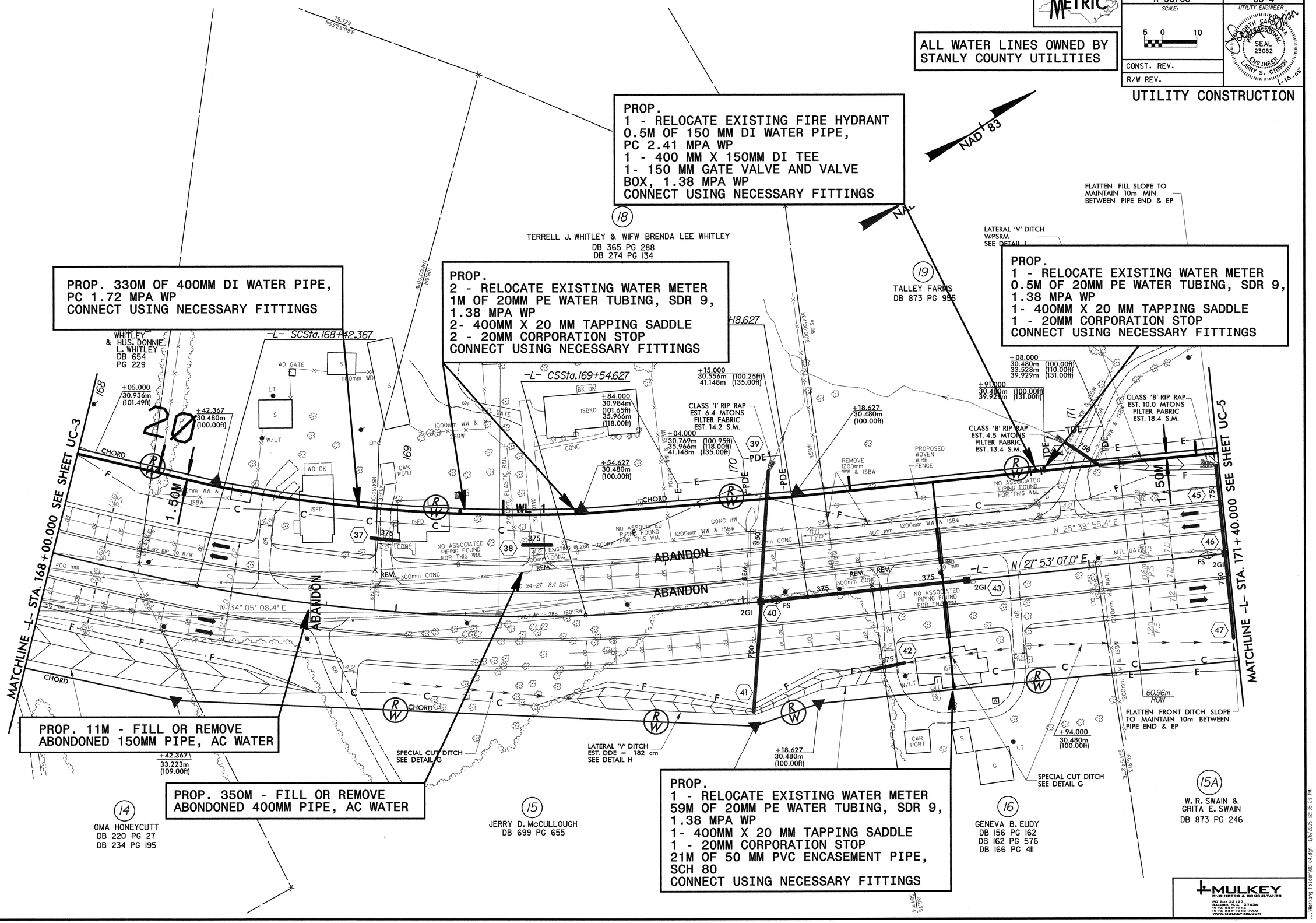
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-4 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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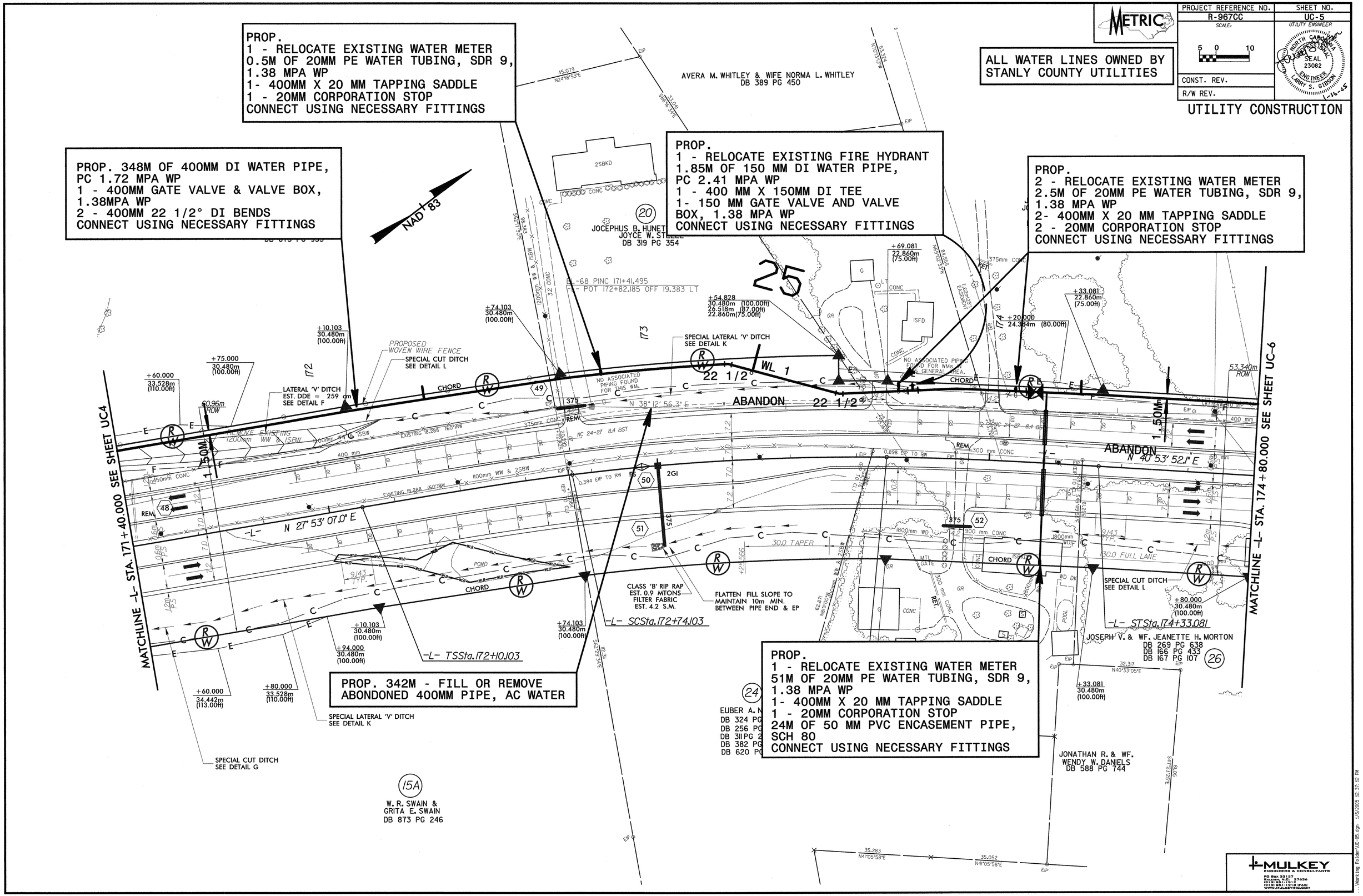


METRIC
PROJECT REFERENCE NO.
R-967CC
SHEET NO.
UC-5
SCALE:
5 0 10
CONST. REV.
R/W REV.
UTILITY ENGINEER
SEAL 23082
UTILITY CONSTRUCTION
ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES
PROP.
1 - RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP. 348M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
1 - 400MM GATE VALVE & VALVE BOX,
1.38MPA WP
2 - 400MM 22 1/2° DI BENDS
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
1.85M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS
PROP.
2 - RELOCATE EXISTING WATER METER
2.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
2- 400MM X 20 MM TAPPING SADDLE
2 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP. 342M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER
PROP.
1 - RELOCATE EXISTING WATER METER
51M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
24M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS
NAD 83
AVERA M. WHITLEY & WIFE NORMA L. WHITLEY
DB 389 PG 450
JOCEPHUS B. HUNET
JOYCE W. STEELE
DB 319 PG 354
JOSEPH V. & WF. JEANETTE H. MORTON
DB 269 PG 638
DB 166 PG 433
DB 167 PG 107
JONATHAN R. & WF.
WENDY W. DANIELS
DB 588 PG 744
W. R. SWAIN &
GRITA E. SWAIN
DB 873 PG 246
MATCHLINE -L- STA. 171+40.000 SEE SHEET UC4
MATCHLINE -L- STA. 174+80.000 SEE SHEET UC-6
ABANDON
N 27° 53' 07.0" E
N 40° 53' 52.1" E
N 38° 12' 56.3" E
22 1/2°
WL 1
-L- TSSta.172+10.103
-L- SCSta.172+74.103
-L- STSta.174+33.081
CLASS 'B' RIP RAP
EST. 0.9 MTONS
FILTER FABRIC
EST. 4.2 S.M.
FLATTEN FILL SLOPE TO
MAINTAIN 10m MIN.
BETWEEN PIPE END & EP
SPECIAL LATERAL 'V' DITCH
SEE DETAIL K
SPECIAL CUT DITCH
SEE DETAIL L
SPECIAL CUT DITCH
SEE DETAIL G
LATERAL 'V' DITCH
EST. DDE = 259 cm
SEE DETAIL F
PROPOSED
WOVEN WIRE FENCE
REMOVE EXISTING
1200mm WW & 1SBW
1100mm WW & 2SBW
NO ASSOCIATED PIPING FOUND FOR THIS WM.
NO ASSOCIATED PIPING FOUND FOR WMs IN THIS GENERAL AREA.
EL-68 PINC 171+41.495
POT 172+82.185 OFF 19.383 LT
30.0 TAPER
130.0 FULL LANE
MULKEY
ENGINEERS & CONSULTANTS

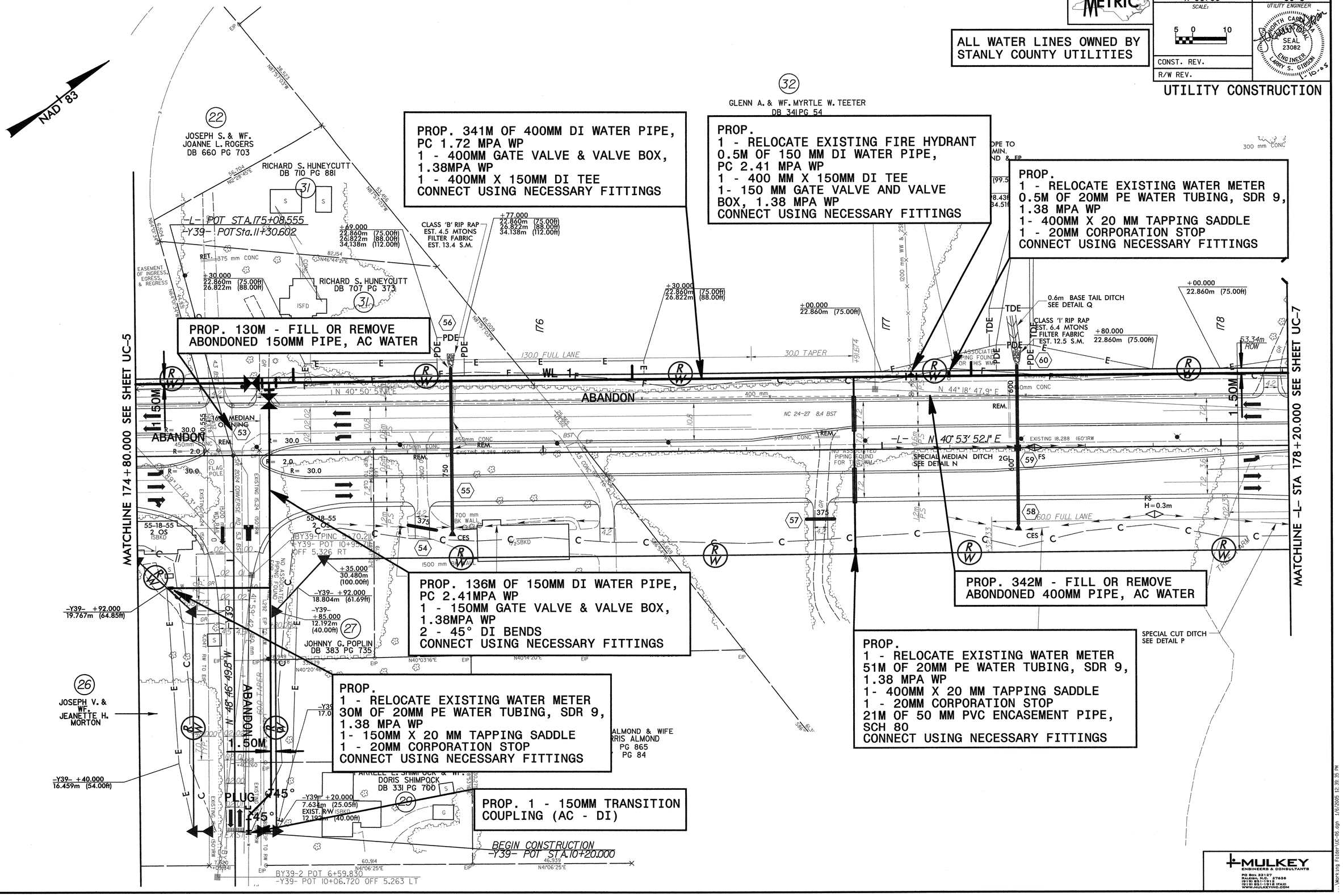
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-6 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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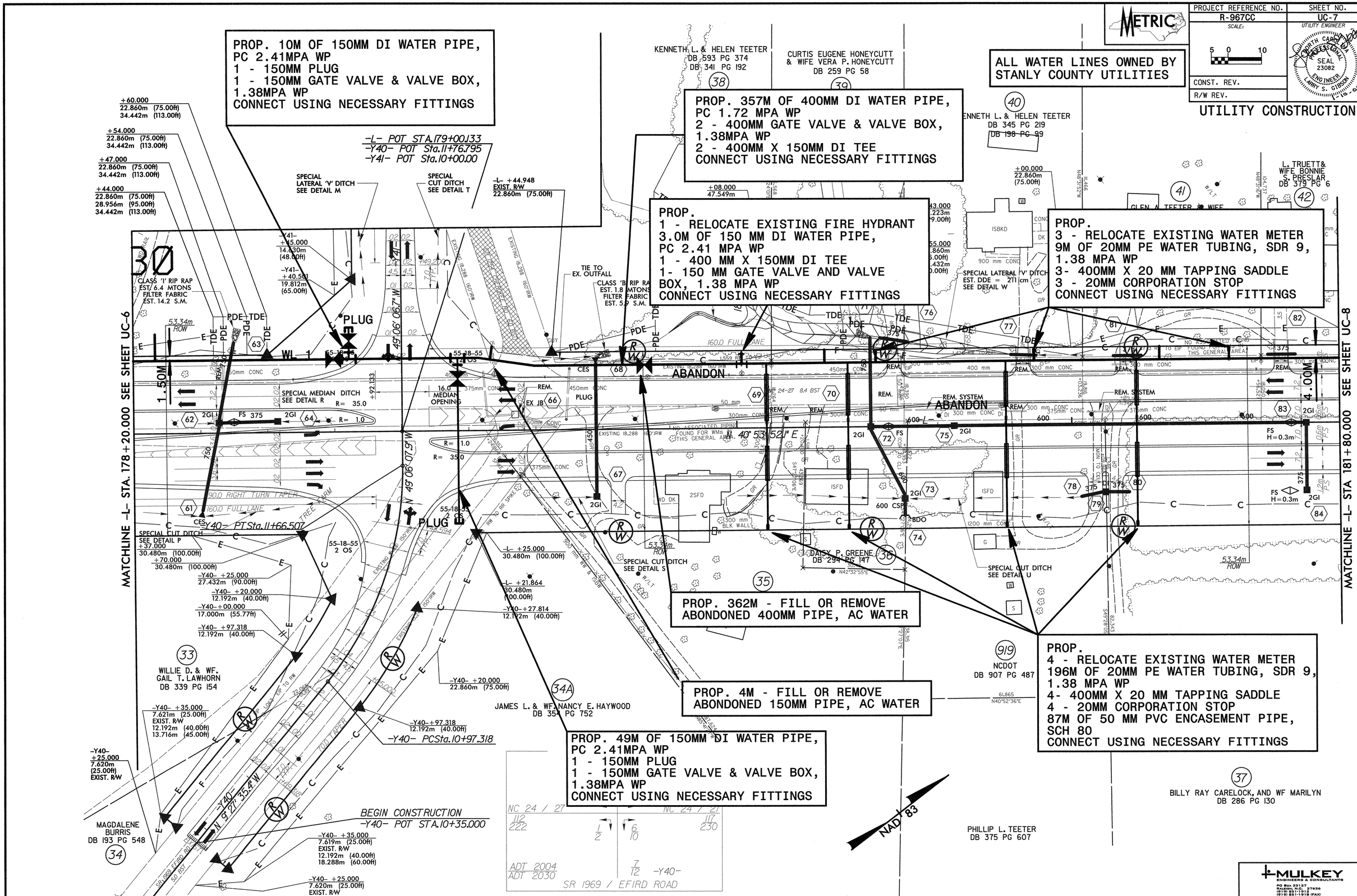


METRIC
PROJECT REFERENCE NO.
R-967CC
SHEET NO.
UC-7
SCALE:
5 0 10
CONST. REV.
R/W REV.
UTILITY ENGINEER
SEAL 23082
UTILITY CONSTRUCTION
PROP. 10M OF 150MM DI WATER PIPE, PC 2.41MPA WP
1 - 150MM PLUG
1 - 150MM GATE VALVE & VALVE BOX, 1.38MPA WP
CONNECT USING NECESSARY FITTINGS
PROP. 357M OF 400MM DI WATER PIPE, PC 1.72 MPA WP
2 - 400MM GATE VALVE & VALVE BOX, 1.38MPA WP
2 - 400MM X 150MM DI TEE
CONNECT USING NECESSARY FITTINGS
ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
3.0M OF 150 MM DI WATER PIPE, PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS
PROP.
3 - RELOCATE EXISTING WATER METER
9M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
3- 400MM X 20 MM TAPPING SADDLE
3 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP. 362M - FILL OR REMOVE ABONDONED 400MM PIPE, AC WATER
PROP. 4M - FILL OR REMOVE ABONDONED 150MM PIPE, AC WATER
PROP.
4 - RELOCATE EXISTING WATER METER
196M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
4- 400MM X 20 MM TAPPING SADDLE
4 - 20MM CORPORATION STOP
87M OF 50 MM PVC ENCASEMENT PIPE, SCH 80
CONNECT USING NECESSARY FITTINGS
PROP. 49M OF 150MM DI WATER PIPE, PC 2.41MPA WP
1 - 150MM PLUG
1 - 150MM GATE VALVE & VALVE BOX, 1.38MPA WP
CONNECT USING NECESSARY FITTINGS
MATCHLINE -L- STA. 178+20.000 SEE SHEET UC-6
MATCHLINE -L- STA 181+80.000 SEE SHEET UC-8
-L- POT STA.179+00.133
-Y40- POT Sta.11+76.795
-Y41- POT Sta.10+00.00
-Y40- PT Sta.11+66.507
-Y40- PC Sta.10+97.318
BEGIN CONSTRUCTION
-Y40- POT STA.10+35.000
KENNETH L. & HELEN TEETER DB 593 PG 374 DB 341 PG 192
CURTIS EUGENE HONEYCUTT & WIFE VERA P. HONEYCUTT DB 259 PG 58
KENNETH L. & HELEN TEETER DB 345 PG 219 DB 198 PG 99
L. TRUETT & WIFE BONNIE S. PRESLAR DB 379 PG 6
WILLIE D. & WF. GAIL T. LAWHORN DB 339 PG 154
JAMES L. & WF. NANCY E. HAYWOOD DB 354 PG 752
MAGDALENE BURRIS DB 193 PG 548
DAISY P. GREENE DB 294 PG 147
NCDOT DB 907 PG 487
BILLY RAY CARELOCK, AND WF MARILYN DB 286 PG 130
PHILLIP L. TEETER DB 375 PG 607
NAD 83
SR 1969 / EFIRD ROAD
MULKEY ENGINEERS & CONSULTANTS

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-8 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

PROP.
1 - RELOCATE EXISTING WATER METER
2.8M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

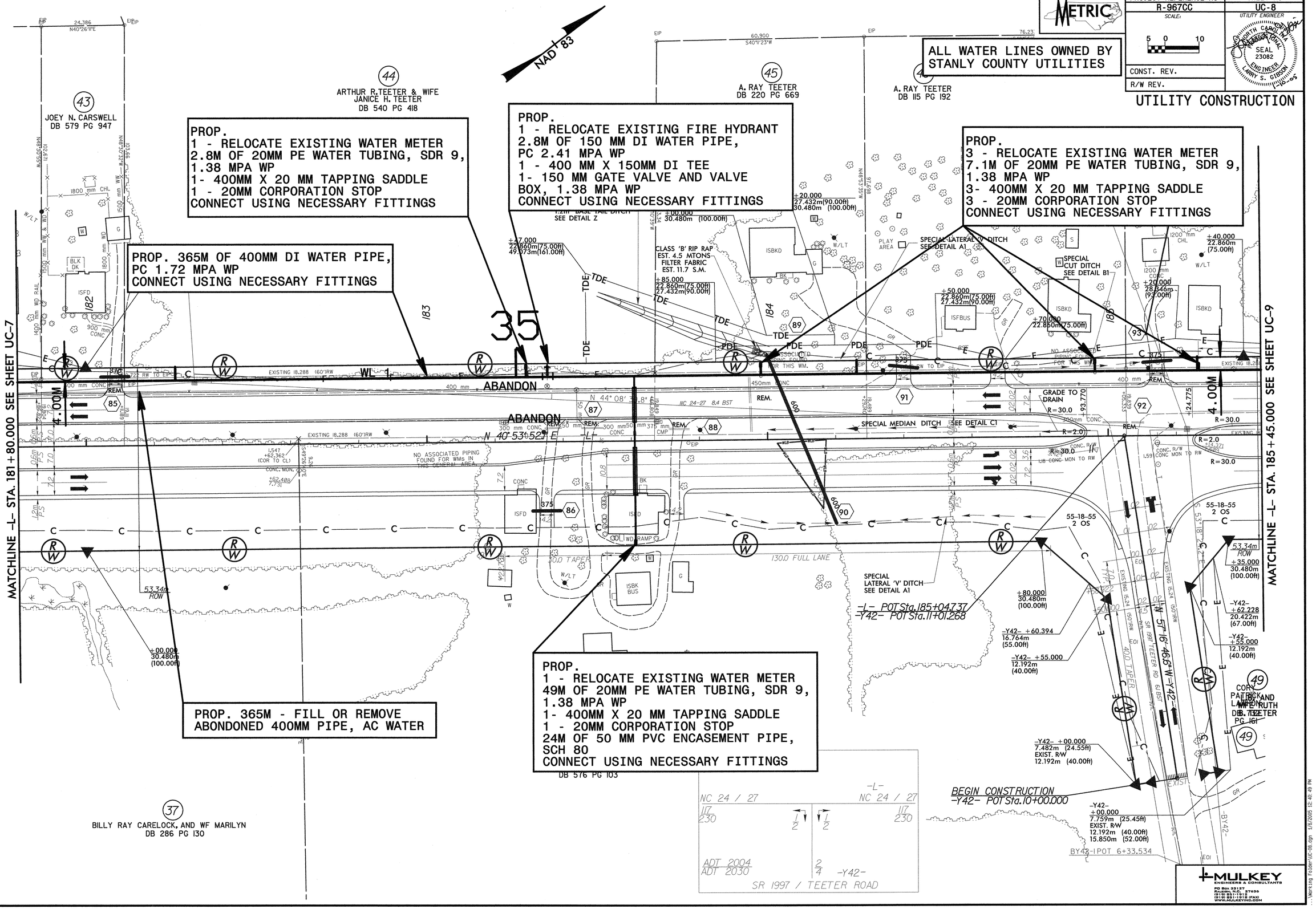
PROP. 365M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
2.8M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
3 - RELOCATE EXISTING WATER METER
7.1M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
3- 400MM X 20 MM TAPPING SADDLE
3 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 365M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP.
1 - RELOCATE EXISTING WATER METER
49M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
24M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

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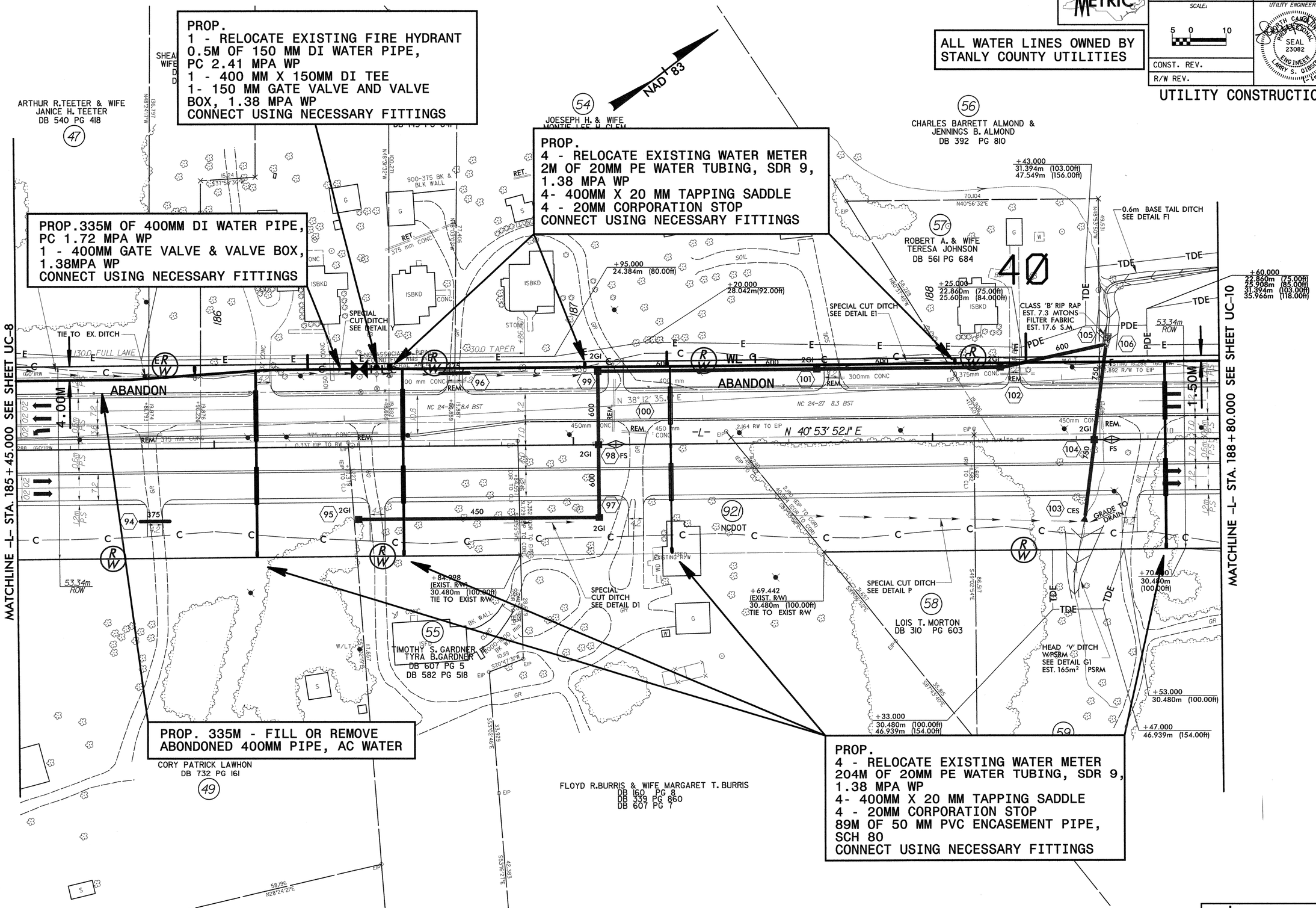
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-9 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 11-21-05

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

# UTILITY CONSTRUCTION

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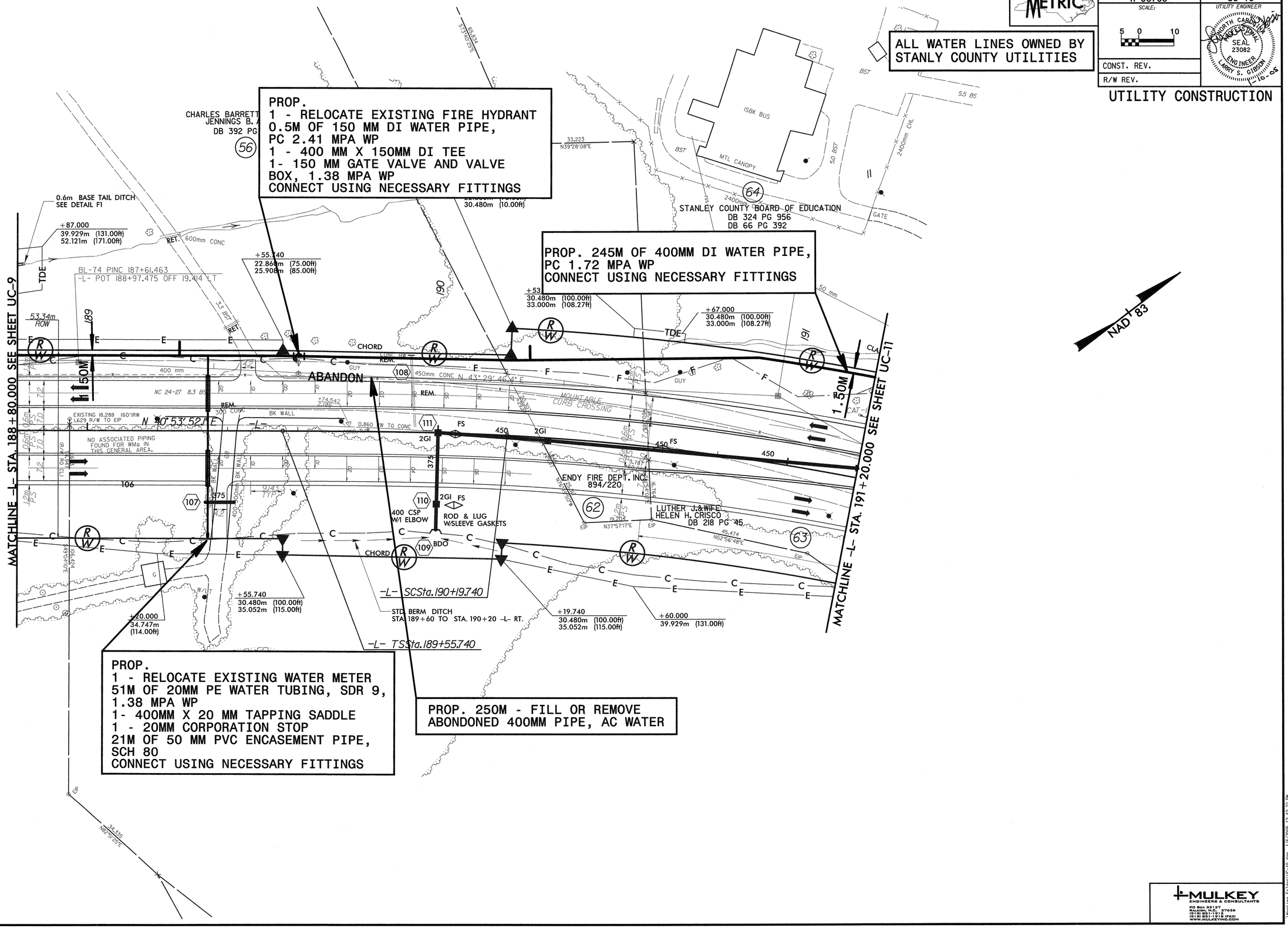
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-10 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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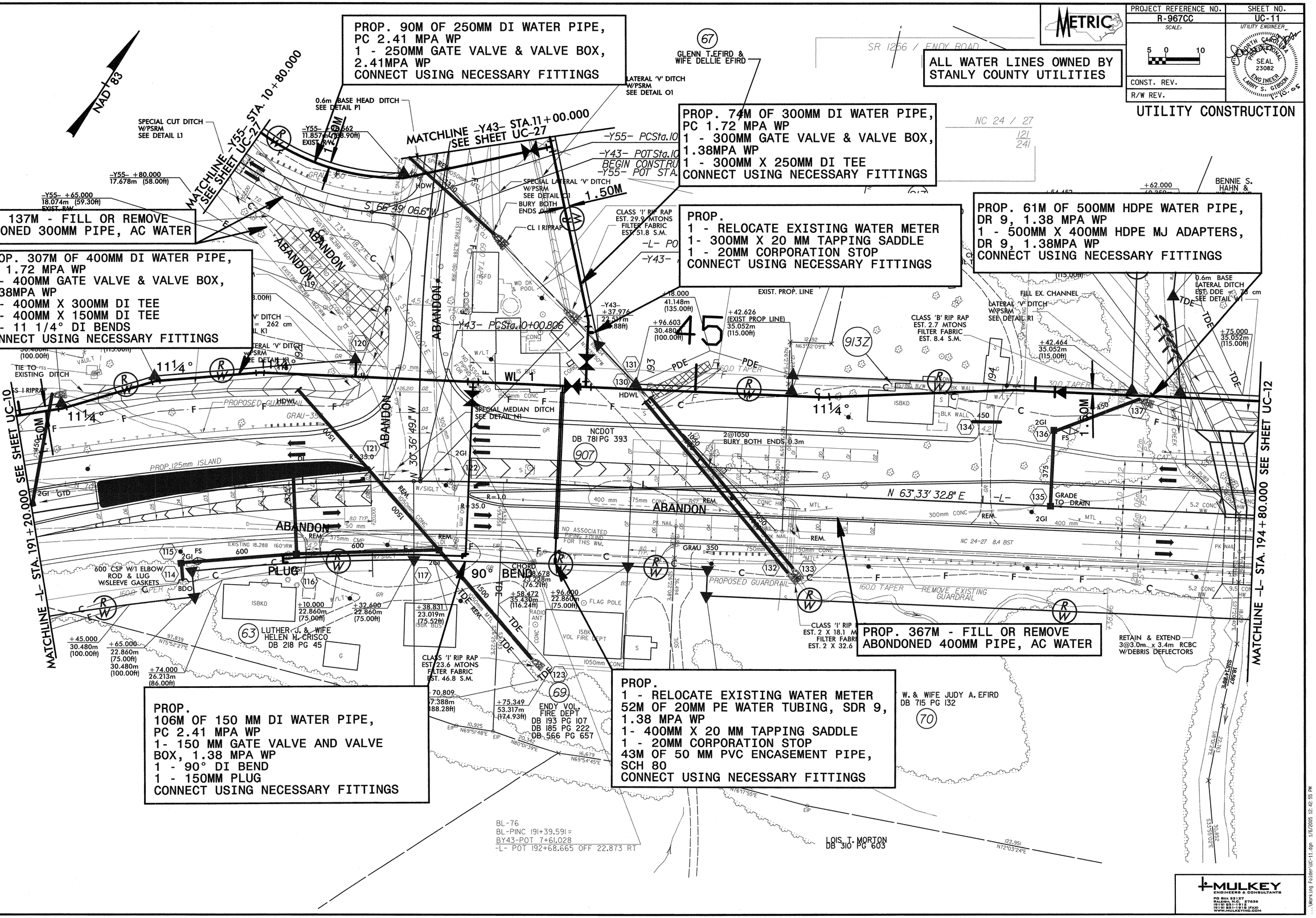


PROJECT REFERENCE NO.
R-967CC
SHEET NO.
UC-11
METRIC
UTILITY ENGINEER
CONST. REV.
R/W REV.
UTILITY CONSTRUCTION
ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES
PROP. 90M OF 250MM DI WATER PIPE, PC 2.41 MPA WP
1 - 250MM GATE VALVE & VALVE BOX, 2.41MPA WP
CONNECT USING NECESSARY FITTINGS
PROP. 74M OF 300MM DI WATER PIPE, PC 1.72 MPA WP
1 - 300MM GATE VALVE & VALVE BOX, 1.38MPA WP
1 - 300MM X 250MM DI TEE
CONNECT USING NECESSARY FITTINGS
PROP. 137M - FILL OR REMOVE ABONDONED 300MM PIPE, AC WATER
PROP. 307M OF 400MM DI WATER PIPE, PC 1.72 MPA WP
1 - 400MM GATE VALVE & VALVE BOX, 1.38MPA WP
1 - 400MM X 300MM DI TEE
1 - 400MM X 150MM DI TEE
4 - 11 1/4° DI BENDS
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING WATER METER
1- 300MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP. 61M OF 500MM HDPE WATER PIPE, DR 9, 1.38 MPA WP
1 - 500MM X 400MM HDPE MJ ADAPTERS, DR 9, 1.38MPA WP
CONNECT USING NECESSARY FITTINGS
PROP. 367M - FILL OR REMOVE ABONDONED 400MM PIPE, AC WATER
PROP.
106M OF 150 MM DI WATER PIPE, PC 2.41 MPA WP
1- 150 MM GATE VALVE AND VALVE BOX, 1.38 MPA WP
1 - 90° DI BEND
1 - 150MM PLUG
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING WATER METER
52M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
43M OF 50 MM PVC ENCASEMENT PIPE, SCH 80
CONNECT USING NECESSARY FITTINGS
MATCHLINE -Y55- STA. 10+80.000 SEE SHEET UC-27
MATCHLINE -Y43- STA.11+00.000 SEE SHEET UC-27
MATCHLINE -L- STA. 191+20.000 SEE SHEET UC-10
MATCHLINE -L- STA. 194+80.000 SEE SHEET UC-12
NAD 83
ABANDON
PLUG
90° BEND
1.50M
45
11¼°
N 63°33'32.8" E
GLENN T. EFIRD & WIFE DELLIE EFIRD
LUTHER J. & WIFE HELEN H. CRISCO DB 218 PG 45
ENDY VOL. FIRE DEPT DB 193 PG 107 DB 185 PG 222 DB 566 PG 657
W. & WIFE JUDY A. EFIRD DB 715 PG 132
LOIS T. MORTON DB 310 PG 603
BL-76
BL-PINC 191+39.591=
BY43-POT 7+61.028
-L- POT 192+68.665 OFF 22.873 RT
MULKEY ENGINEERS & CONSULTANTS

METRIC

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-12 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

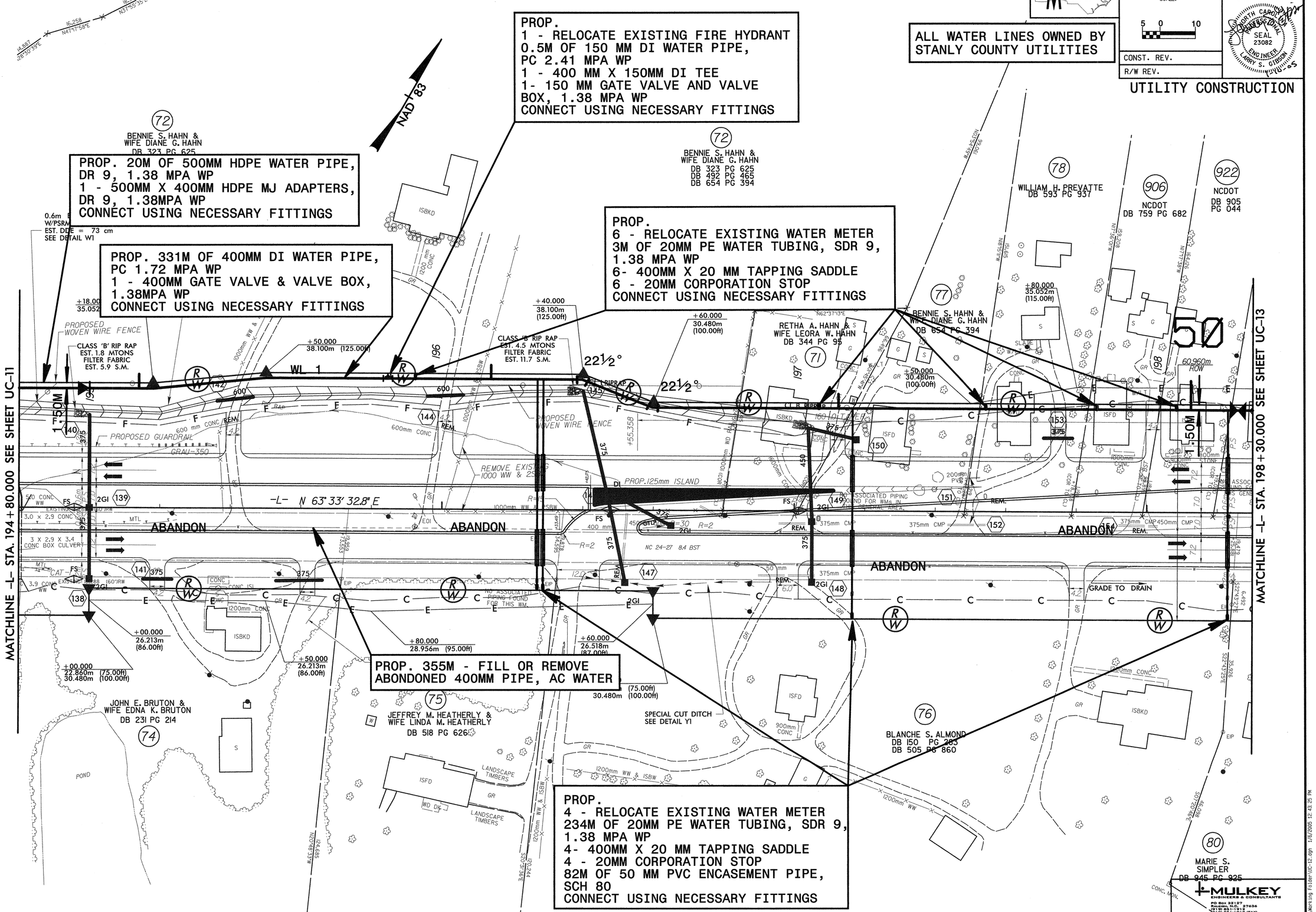
PROP. 20M OF 500MM HDPE WATER PIPE,
DR 9, 1.38 MPA WP
1 - 500MM X 400MM HDPE MJ ADAPTERS,
DR 9, 1.38MPA WP
CONNECT USING NECESSARY FITTINGS

PROP. 331M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
1 - 400MM GATE VALVE & VALVE BOX,
1.38MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
6 - RELOCATE EXISTING WATER METER
3M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
6- 400MM X 20 MM TAPPING SADDLE
6 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 355M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP.
4 - RELOCATE EXISTING WATER METER
234M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
4- 400MM X 20 MM TAPPING SADDLE
4 - 20MM CORPORATION STOP
82M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

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| PROJECT REFERENCE NO. | SHEET NO. |
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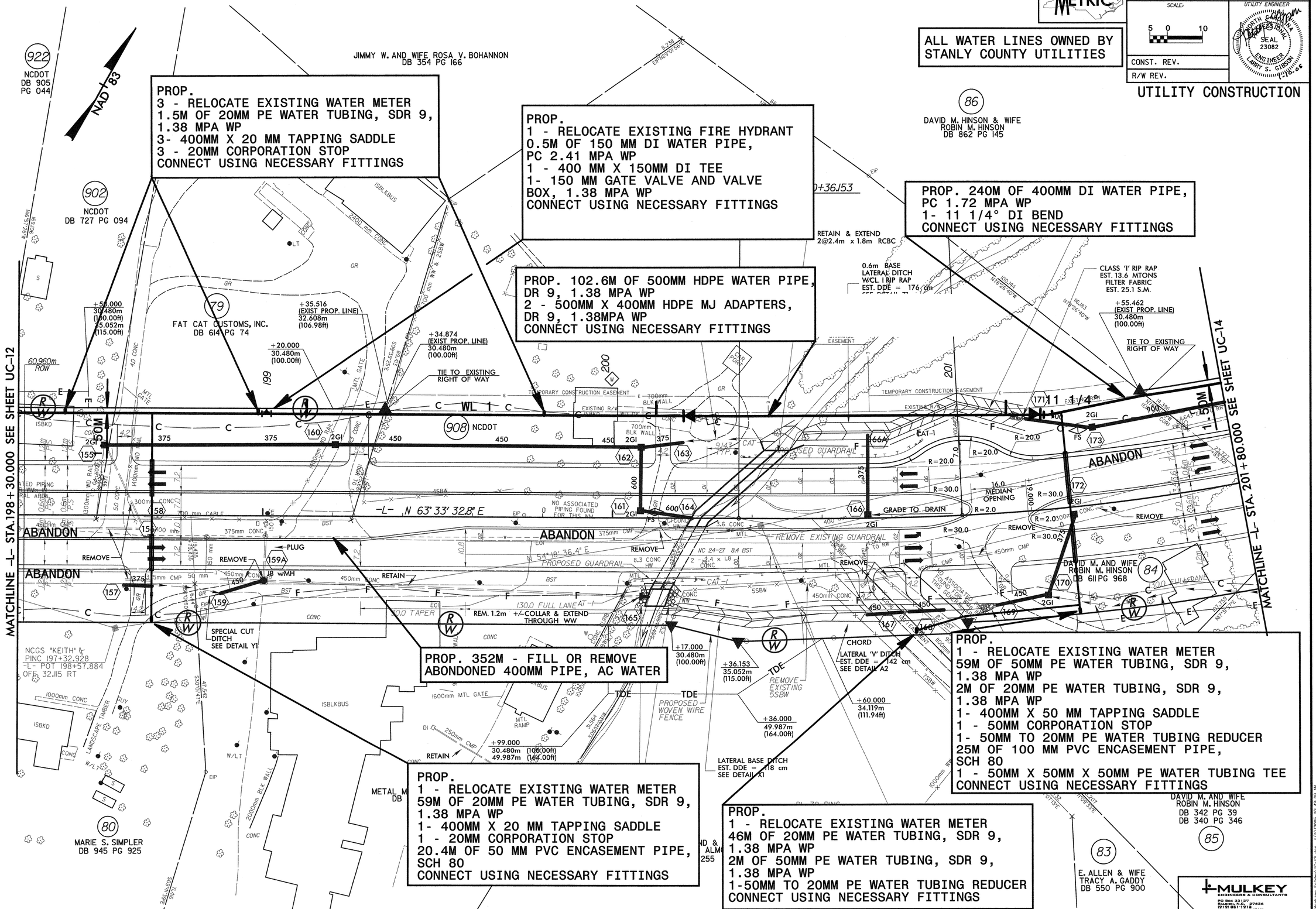
| R-967CC | UC-13 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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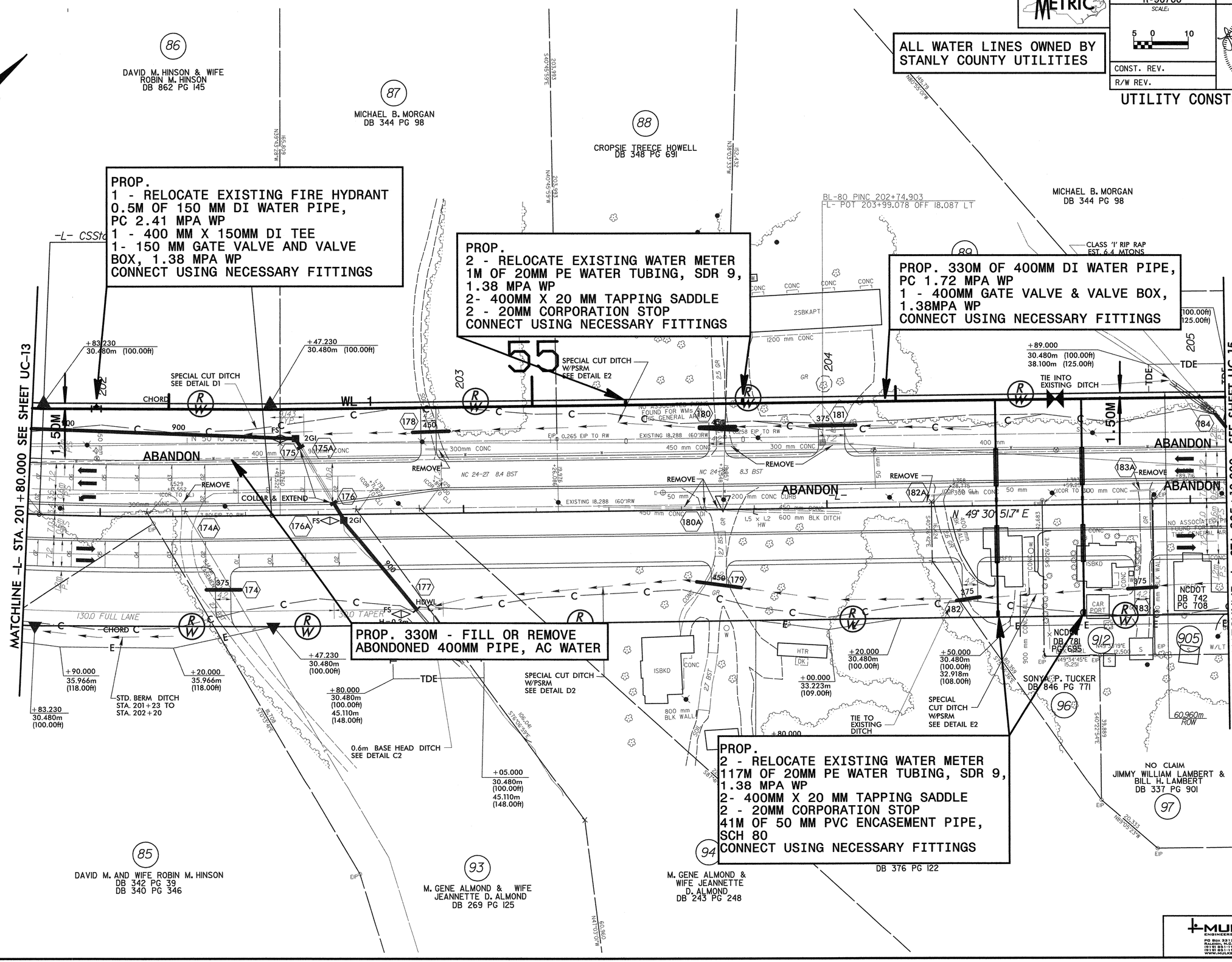
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-14 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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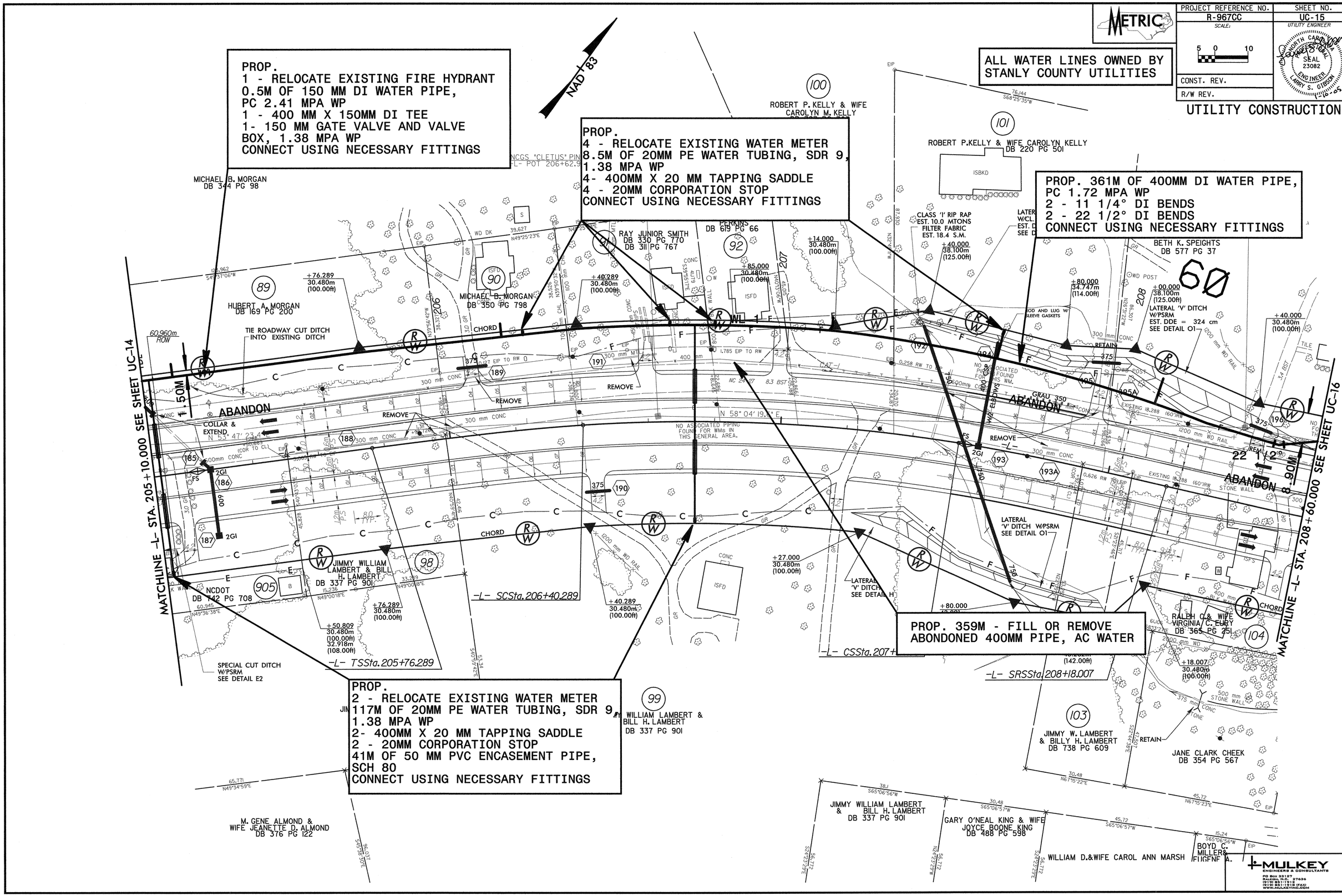

METRIC
PROJECT REFERENCE NO.
R-967CC
SHEET NO.
UC-15
SCALE:
5 0 10
CONST. REV.
R/W REV.
UTILITY ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON
1-16-05
UTILITY CONSTRUCTION
ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS
PROP.
4 - RELOCATE EXISTING WATER METER
8.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
4- 400MM X 20 MM TAPPING SADDLE
4 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP. 361M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
2 - 11 1/4° DI BENDS
2 - 22 1/2° DI BENDS
CONNECT USING NECESSARY FITTINGS
PROP. 359M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER
PROP.
2 - RELOCATE EXISTING WATER METER
117M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
2- 400MM X 20 MM TAPPING SADDLE
2 - 20MM CORPORATION STOP
41M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS
NAD 83
MATCHLINE -L- STA. 205+10.000 SEE SHEET UC-14
MATCHLINE -L- STA. 208+60.000 SEE SHEET UC-16
ABANDON
REMOVE
CHORD
-L- SCSta.206+40.289
-L- TSSta.205+76.289
-L- CSSta.207+
-L- SRSSta.208+18.007
MICHAEL B. MORGAN DB 344 PG 98
HUBERT A. MORGAN DB 169 PG 200
MICHAEL B. MORGAN DB 350 PG 798
RAY JUNIOR SMITH DB 330 PG 770 DB 311 PG 767
PERKINS DB 619 PG 66
ROBERT P. KELLY & WIFE CAROLYN M. KELLY
ROBERT P.KELLY & WIFE CAROLYN KELLY DB 220 PG 501
BETH K. SPEIGHTS DB 577 PG 37
JIMMY WILLIAM LAMBERT & BILL H. LAMBERT DB 337 PG 901
NCDOT DB 742 PG 708
RALPH C.& WIFE VIRGINIA C. EURY DB 365 PG 251
JIMMY W. LAMBERT & BILLY H. LAMBERT DB 738 PG 609
JANE CLARK CHEEK DB 354 PG 567
M. GENE ALMOND & WIFE JEANETTE D. ALMOND DB 376 PG 122
GARY O'NEAL KING & WIFE JOYCE BOONE KING DB 488 PG 598
WILLIAM D.&WIFE CAROL ANN MARSH
BOYD C. MILLER& EUGENE A.
TIE ROADWAY CUT DITCH INTO EXISTING DITCH
SPECIAL CUT DITCH W/PSRM SEE DETAIL E2
LATERAL 'V' DITCH W/PSRM SEE DETAIL O1
LATERAL 'V' DITCH SEE DETAIL H
CLASS 'I' RIP RAP EST. 10.0 MTONS FILTER FABRIC EST. 18.4 S.M.
NO ASSOCIATED PIPING FOUND FOR WMs IN THIS GENERAL AREA.
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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-16 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

PROP. 1 - 150MM TRANSITION COUPLING (AC - DI)

PROP. 55M OF 150MM DI WATER PIPE,
PC 2.41MPA WP
1- 150MM GATE VALVE & VALVE BOX,
1.38MPA WP
1 - 150MM TRANSITION
COUPLING (AC - DI)
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING WATER METER
4.3M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 107M OF 150MM DI WATER PIPE,
PC 2.41MPA WP
1- 150MM GATE VALVE & VALVE BOX,
1.38MPA WP
3 - 45° DI BENDS
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
6- RELOCATE EXISTING WATER METER
14M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
4- 400MM X 20 MM TAPPING SADDLE
2- 150MM X 20 MM TAPPING SADDLE
6 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

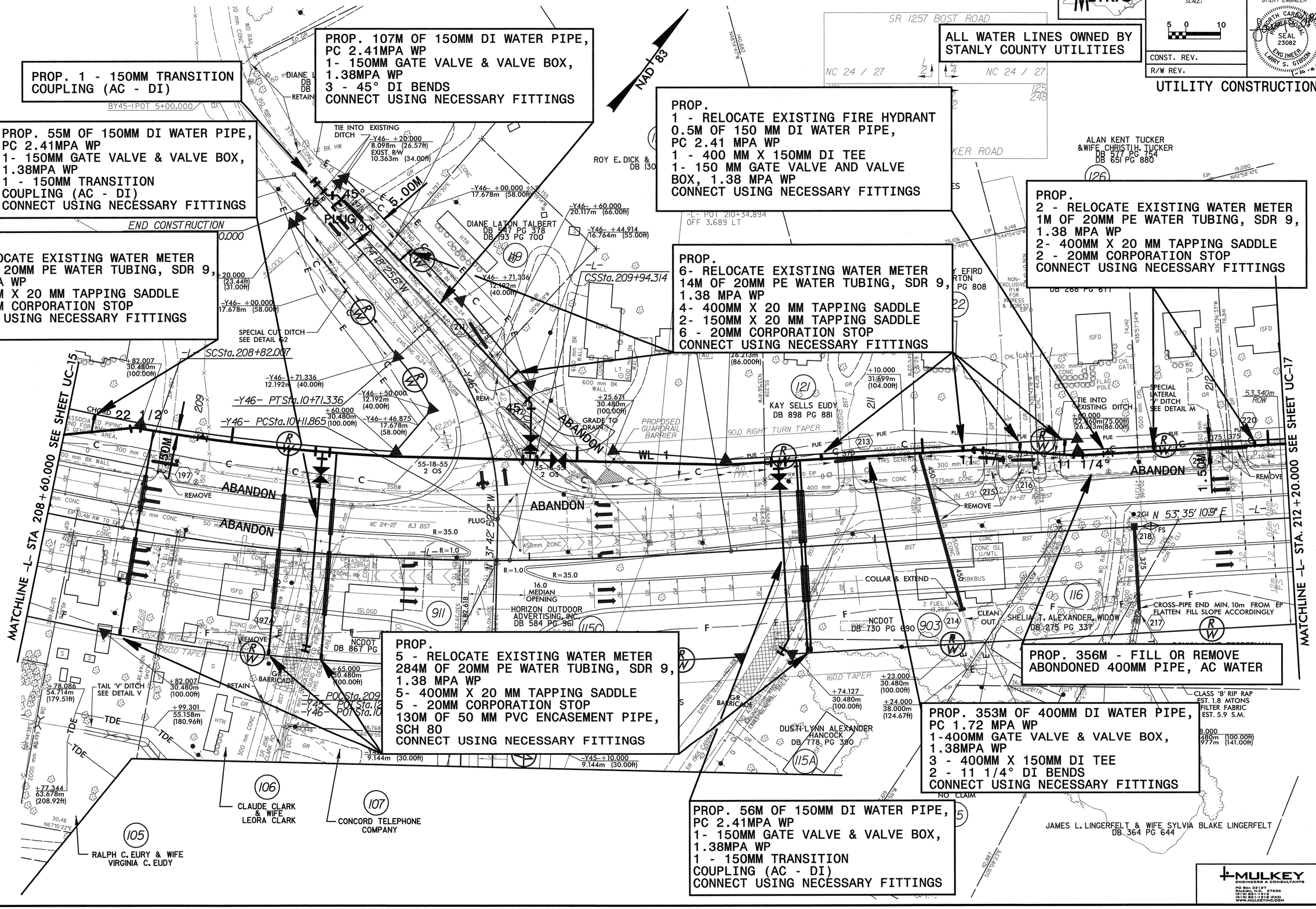
PROP.
2 - RELOCATE EXISTING WATER METER
1M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
2- 400MM X 20 MM TAPPING SADDLE
2 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP.
5 - RELOCATE EXISTING WATER METER
284M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
5- 400MM X 20 MM TAPPING SADDLE
5 - 20MM CORPORATION STOP
130M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

PROP. 356M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP. 353M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
1-400MM GATE VALVE & VALVE BOX,
1.38MPA WP
3 - 400MM X 150MM DI TEE
2 - 11 1/4° DI BENDS
CONNECT USING NECESSARY FITTINGS

PROP. 56M OF 150MM DI WATER PIPE,
PC 2.41MPA WP
1- 150MM GATE VALVE & VALVE BOX,
1.38MPA WP
1 - 150MM TRANSITION
COUPLING (AC - DI)
CONNECT USING NECESSARY FITTINGS

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| PROJECT REFERENCE NO. | SHEET NO. |
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| R-967CC | UC-17 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1-6-06

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

PROP. 340M OF 400MM DI WATER PIPE, PC 1.72 MPA WP
1 - 400MM X 150 MM DI TEE
1 - 400MM GATE VALVE AND VALVE BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

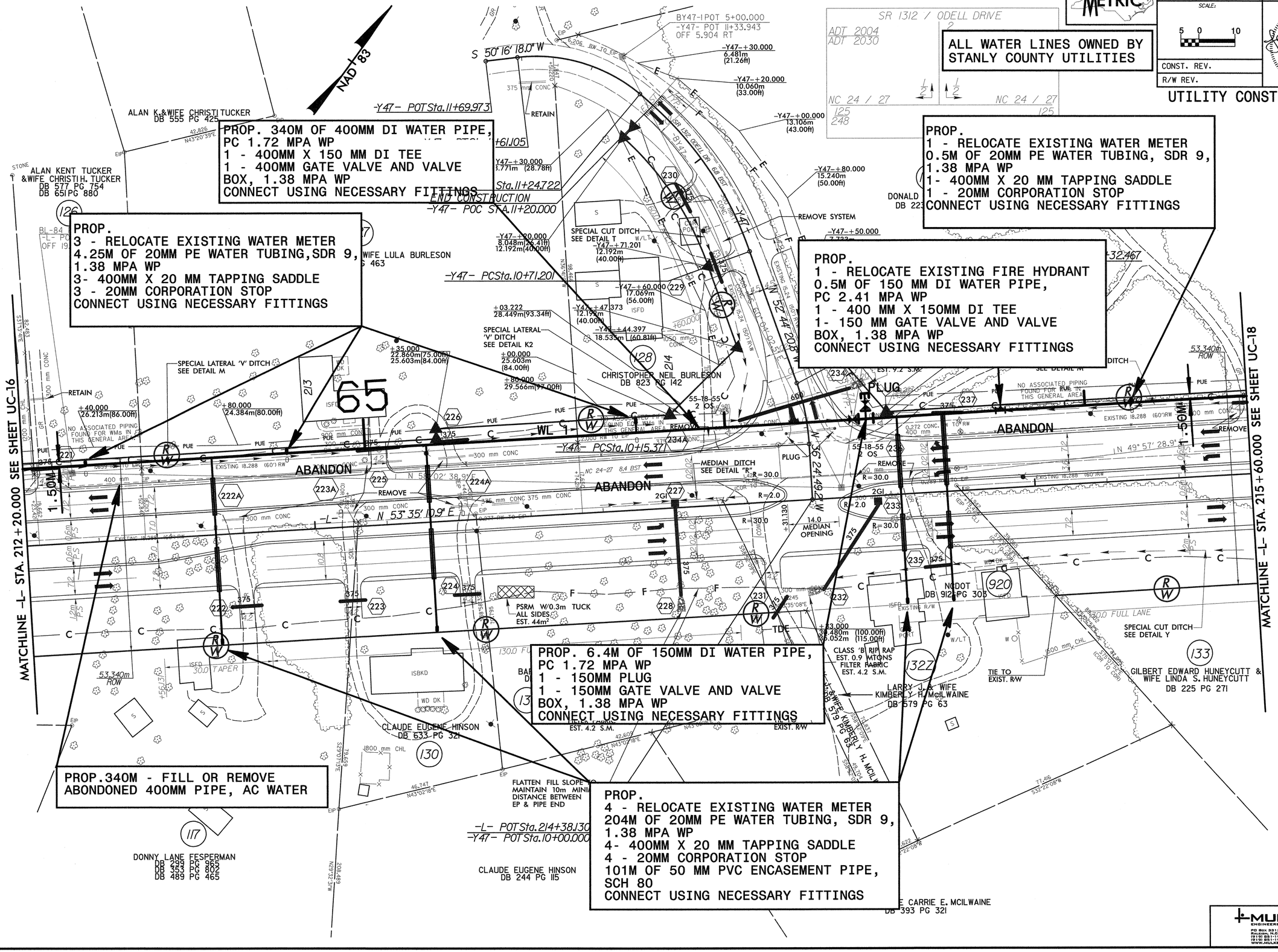
PROP.
3 - RELOCATE EXISTING WATER METER
4.25M OF 20MM PE WATER TUBING,SDR 9, 1.38 MPA WP
3- 400MM X 20 MM TAPPING SADDLE
3 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE, PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP. 6.4M OF 150MM DI WATER PIPE, PC 1.72 MPA WP
1 - 150MM PLUG
1 - 150MM GATE VALVE AND VALVE BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.340M - FILL OR REMOVE ABONDONED 400MM PIPE, AC WATER

PROP.
4 - RELOCATE EXISTING WATER METER
204M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
4- 400MM X 20 MM TAPPING SADDLE
4 - 20MM CORPORATION STOP
101M OF 50 MM PVC ENCASEMENT PIPE, SCH 80
CONNECT USING NECESSARY FITTINGS

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| PROJECT REFERENCE NO. | SHEET NO. |
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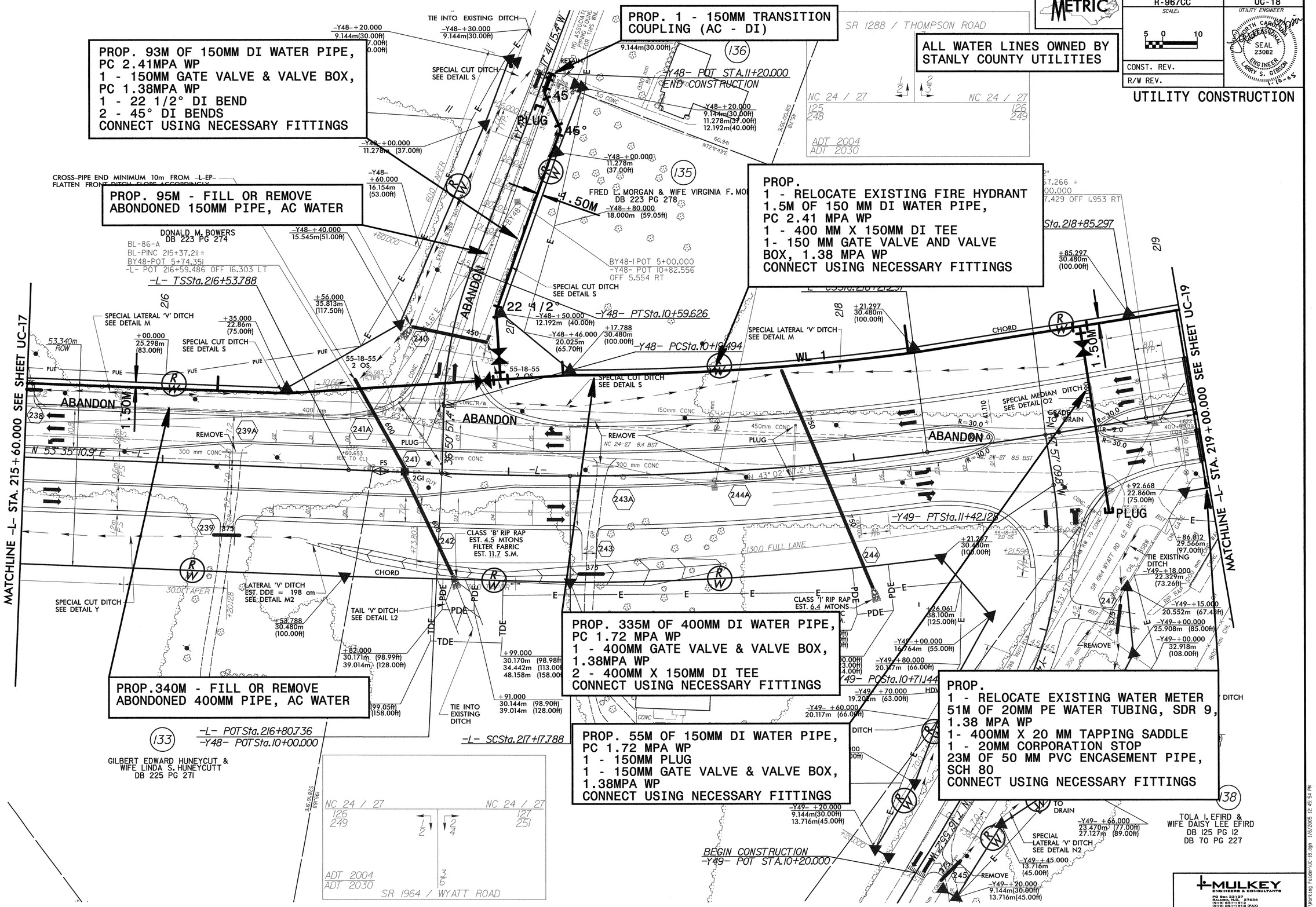
| R-967CC | UC-18 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 5-6-05

# UTILITY CONSTRUCTION



| PROJECT REFERENCE NO. | SHEET NO. |
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| R-967CC | UC-19 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 5-6-05

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

PROP. 350M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
1 - 400MM GATE VALVE & VALVE BOX,
1.38MPA WP
CONNECT USING NECESSARY FITTINGS

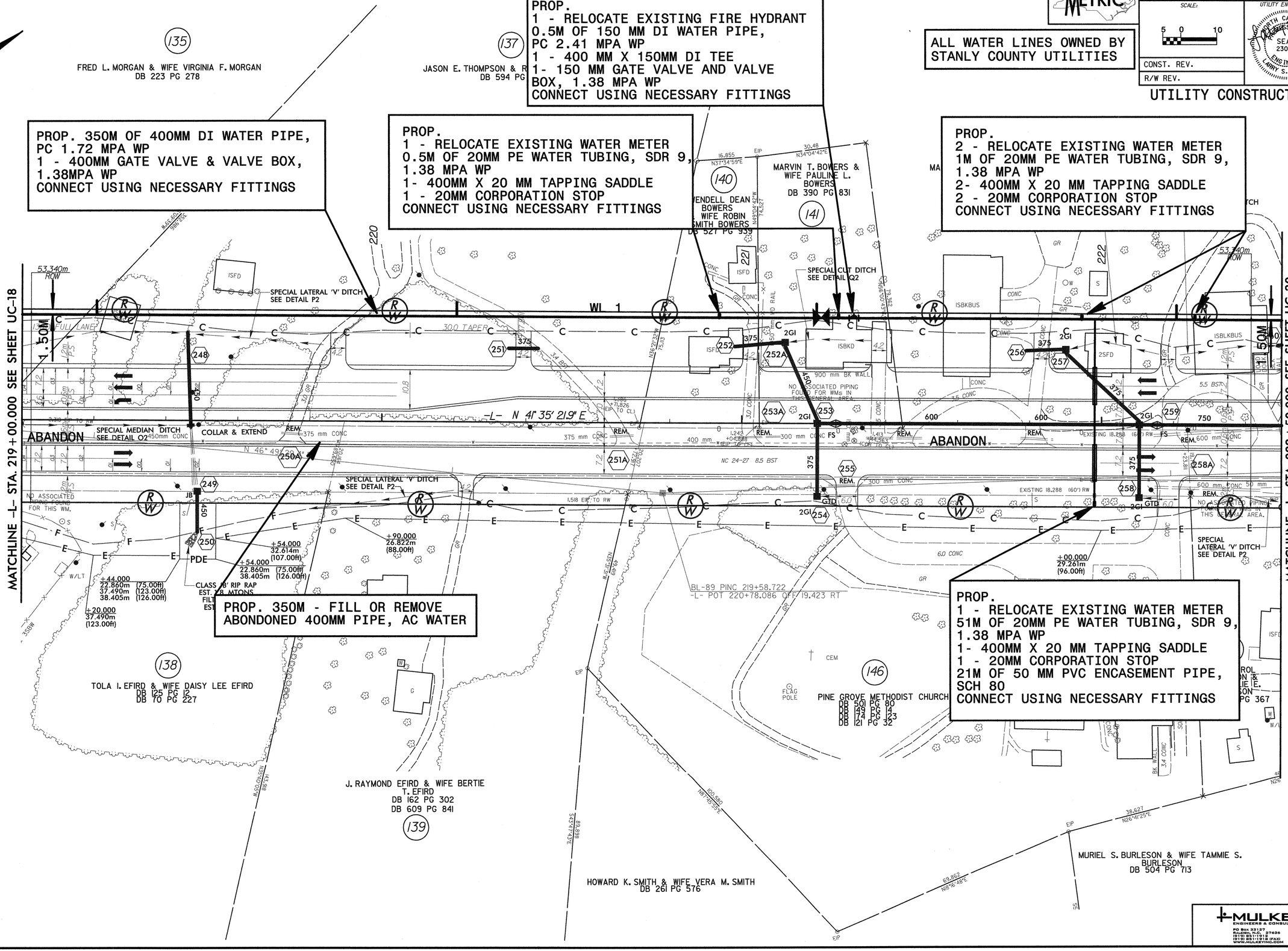
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP.
2 - RELOCATE EXISTING WATER METER
1M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
2- 400MM X 20 MM TAPPING SADDLE
2 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 350M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP.
1 - RELOCATE EXISTING WATER METER
51M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
21M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

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| R-967CC | UC-20 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

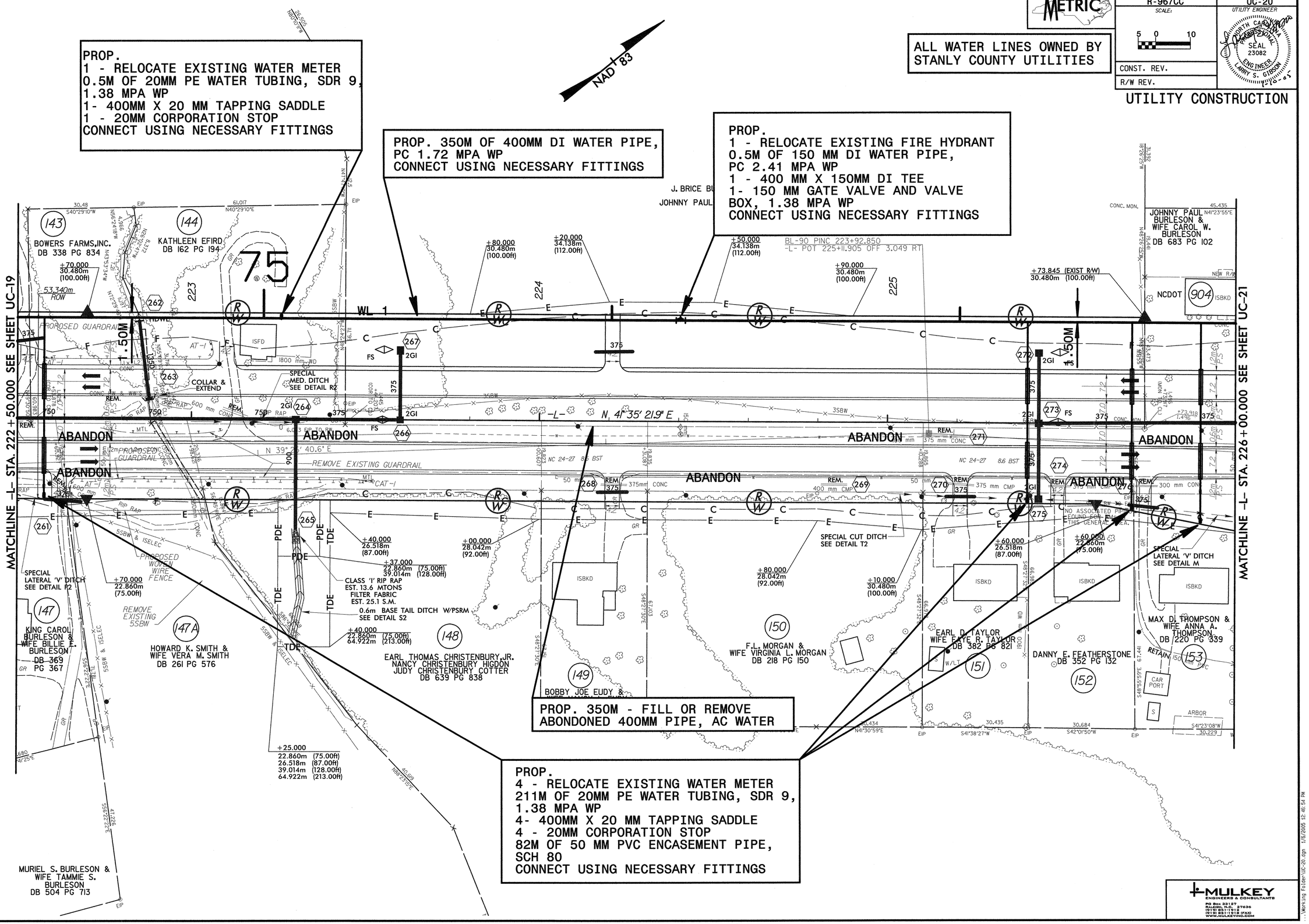
PROP.
1 - RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 350M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP. 350M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP.
4 - RELOCATE EXISTING WATER METER
211M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
4- 400MM X 20 MM TAPPING SADDLE
4 - 20MM CORPORATION STOP
82M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

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| PROJECT REFERENCE NO. | SHEET NO. |
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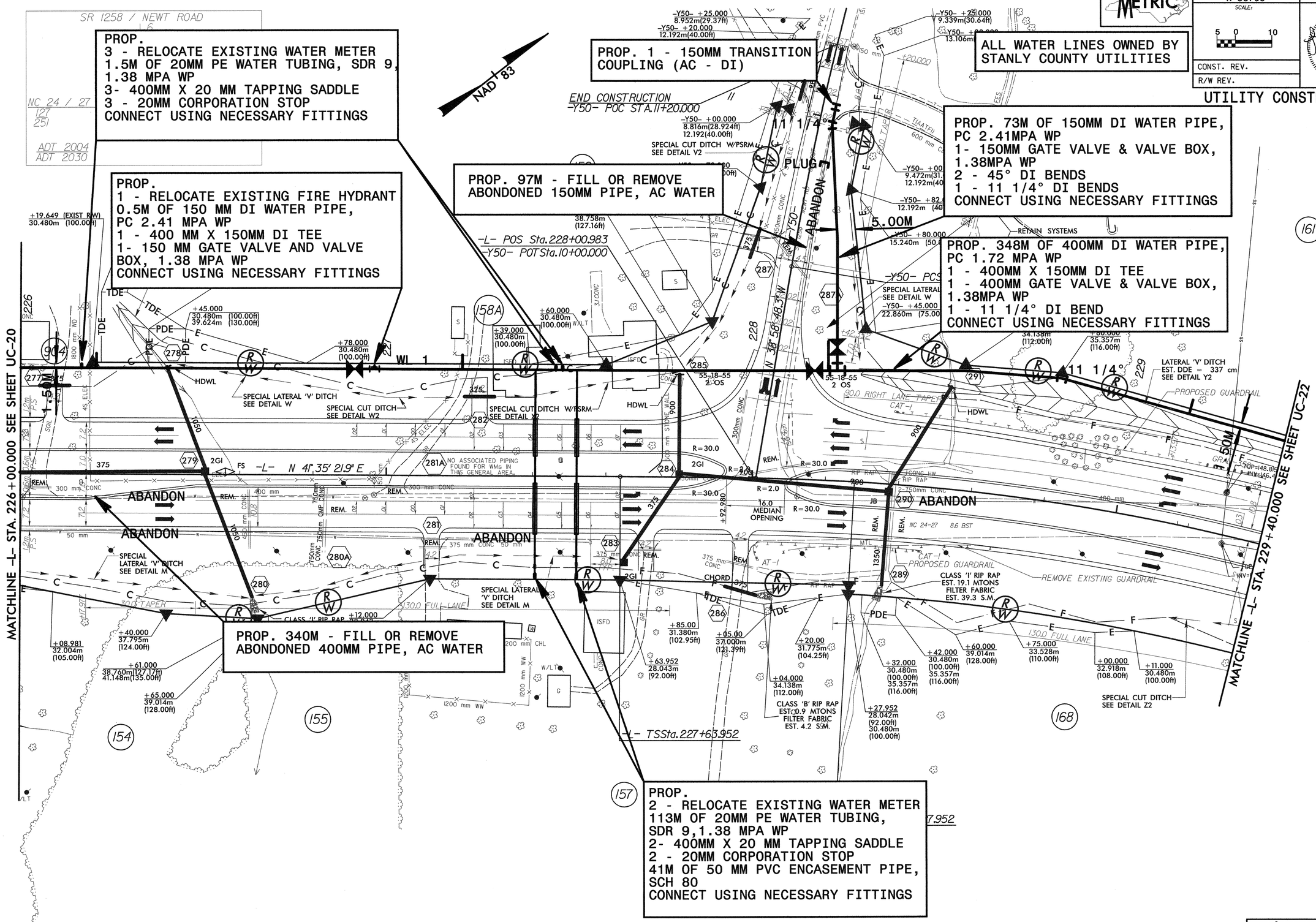
| R-967CC | UC-21 |
| SCALE: | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
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| R-967CC | UC-22 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

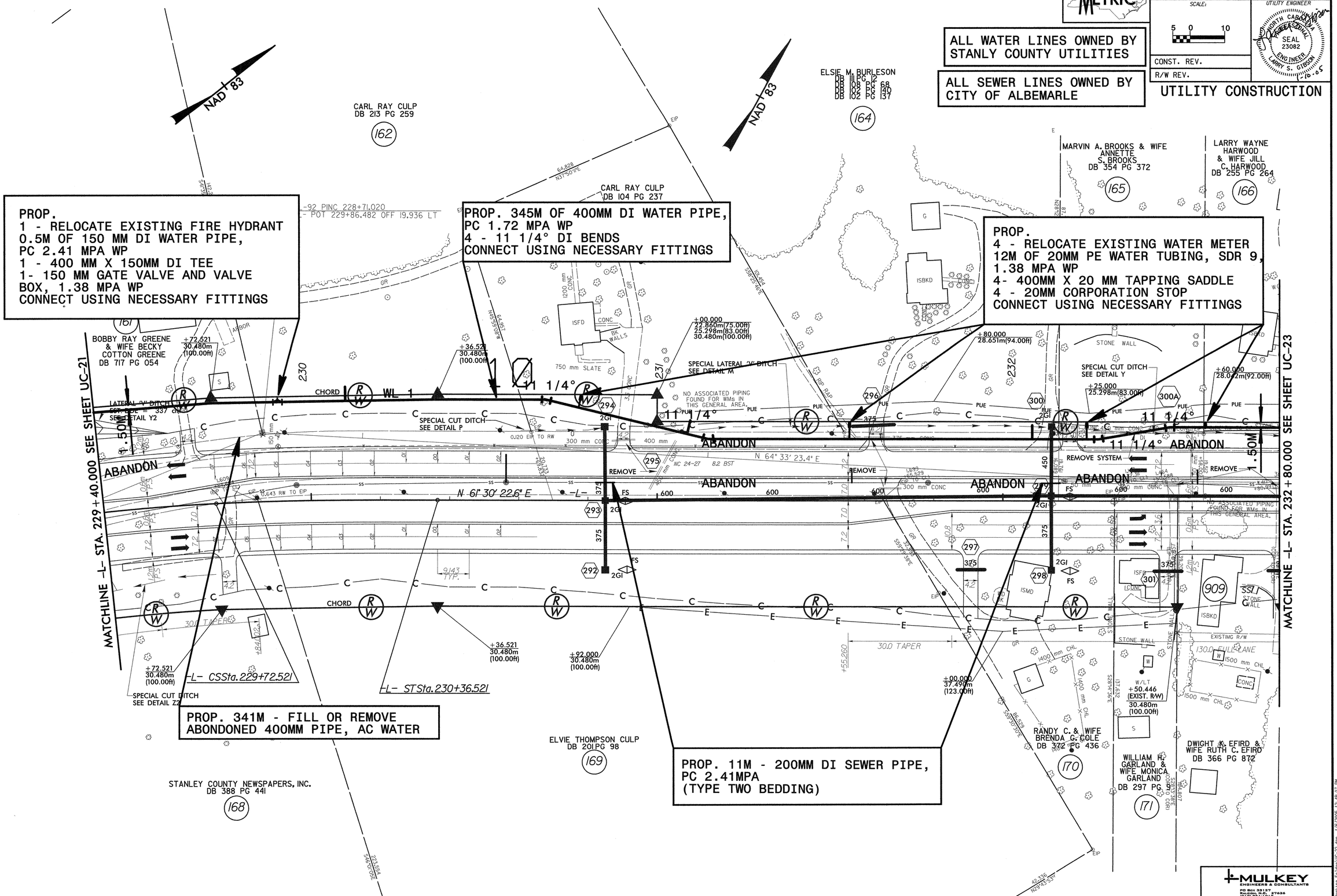
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1/6/05

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

ALL SEWER LINES OWNED BY CITY OF ALBEMARLE

# UTILITY CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-23 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1/6/05

# UTILITY CONSTRUCTION

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
6M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
3- RELOCATE EXISTING WATER METER
1.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
3- 400MM X 20 MM TAPPING SADDLE
3 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 1 - 150MM TRANSITION
COUPLING (AC - DI)

PROP. 330M OF 400MM DI WATER PIPE,
PC 1.72 MPA WP
2 - 400MM GATE VALVE AND VALVE BOX,
PC 1.38MPA WP
1 - 400MM X 150MM DI TEE
2 - 22 1/2° DI BENDS
CONNECT USING NECESSARY FITTINGS

PROP. 71M OF 150MM DI WATER PIPE,
PC 1.72 MPA WP
1 - 150MM GATE VALVE AND VALVE BOX,
PC 1.38MPA WP
2 - 22 1/2° DI BENDS
2 - 45° DI BENDS
CONNECT USING NECESSARY FITTINGS

PROP.
3- RELOCATE EXISTING WATER METER
18M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1 - 150MM X 20MM TAPPING SADDLE
2- 400MM X 20 MM TAPPING SADDLE
3 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

ALL WATER LINES OWNED BY
STANLY COUNTY UTILITIES

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
0.5M OF 150 MM DI WATER PIPE,
PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE
BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 338M - FILL OR REMOVE
ABONDONED 400MM PIPE, AC WATER

PROP.
1 - RELOCATE EXISTING WATER METER
59M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
21M OF 50 MM PVC ENCASEMENT PIPE,
SCH 80
CONNECT USING NECESSARY FITTINGS

PROPOSED PUMPSTATION
SEE SHEET UC-23A

MATCHLINE -L- STA. 232+80.000 SEE SHEET UC-22

MATCHLINE -L- STA. 236+20.000 SEE SHEET UC-24

NAD 83

-L- POT Sta. 233+38.257
-Y51- POT Sta. 10+00.000

-L- CSSta. 235+14.268

BL-94 PINC 233+87.263
-L- POT 235+03.416 OFF 4.314 LT

LEITA GAY LOVE DB 330 PG 839
BILLY JOE MURRAY DB 345 PG 835
EARLENE M. NANNIE DB 298 PG 67
CLARENCE D. WIFE ETHEL DB 126 PG
CLARENCE CROWELL & WIFE DORIS CROWELL DB 366 PG 130 DB 166 PG 472
BAXTER R. HOWELL & WIFE GLADYS HILL HOWELL DB 165 PG 216 DB 366 PG 874
MALCOLM F. PALMER HEIRS DB 124 PG 581
CITY OF ALBEMARLE DB 376 PG 821
MALCOLM F. PALMER HEIRS DB BK 124 PG 581

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ALL SEWER LINES OWNED BY CITY OF ALBEMARLE

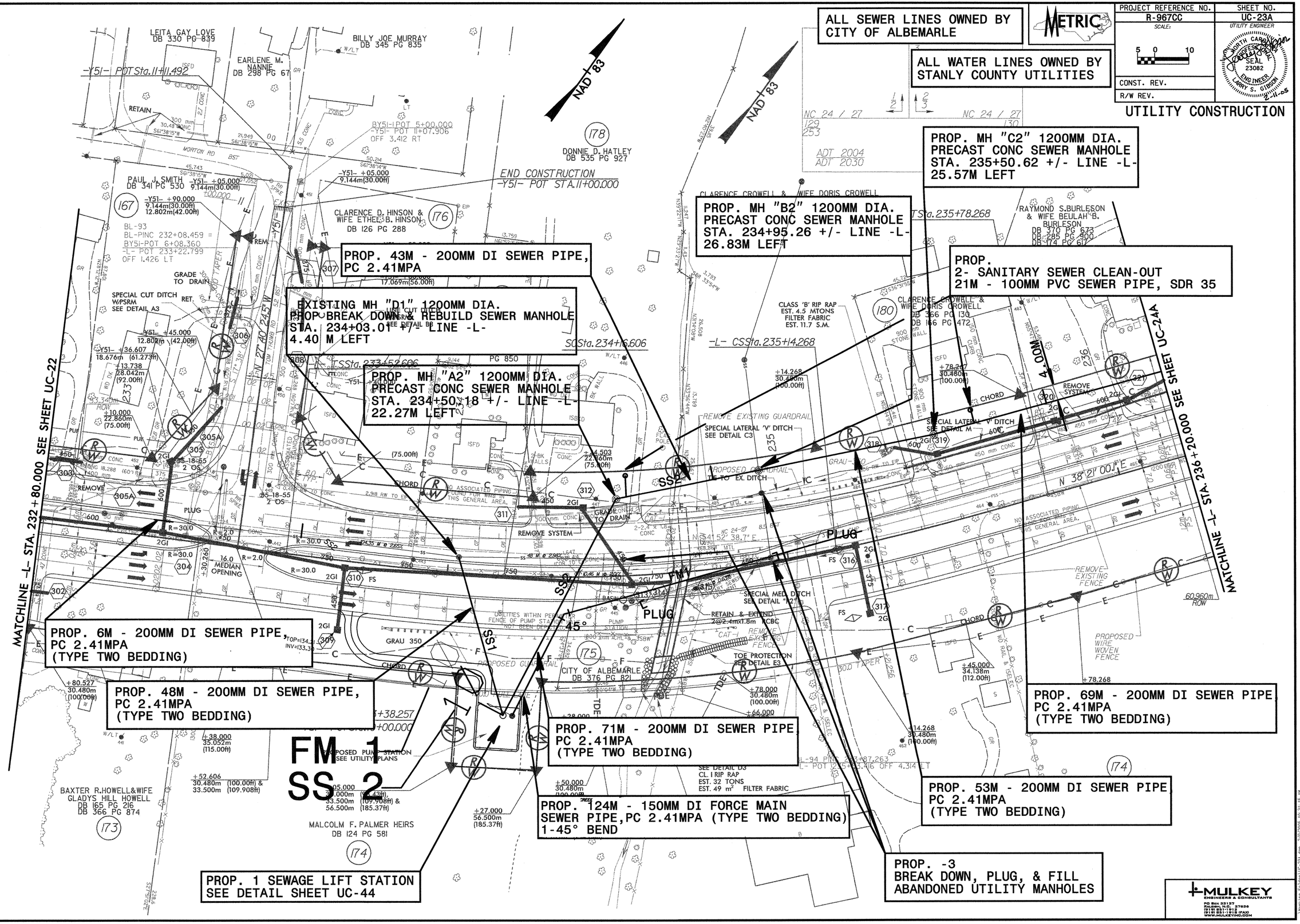
ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

METRIC

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-23A |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 2-11-05

UTILITY CONSTRUCTION

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|---|---|
| R-967CC | UC-24 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
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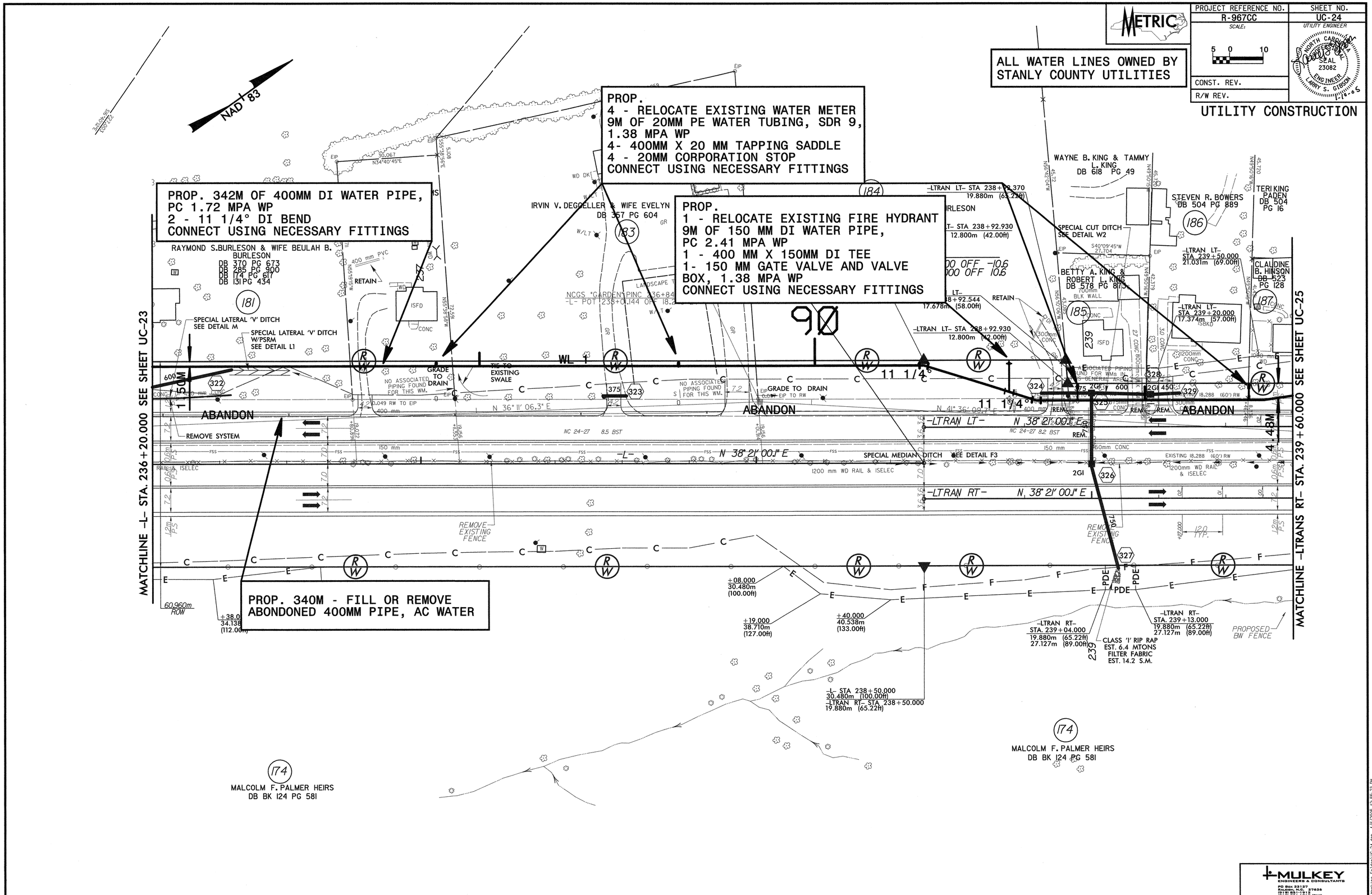
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-24A |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

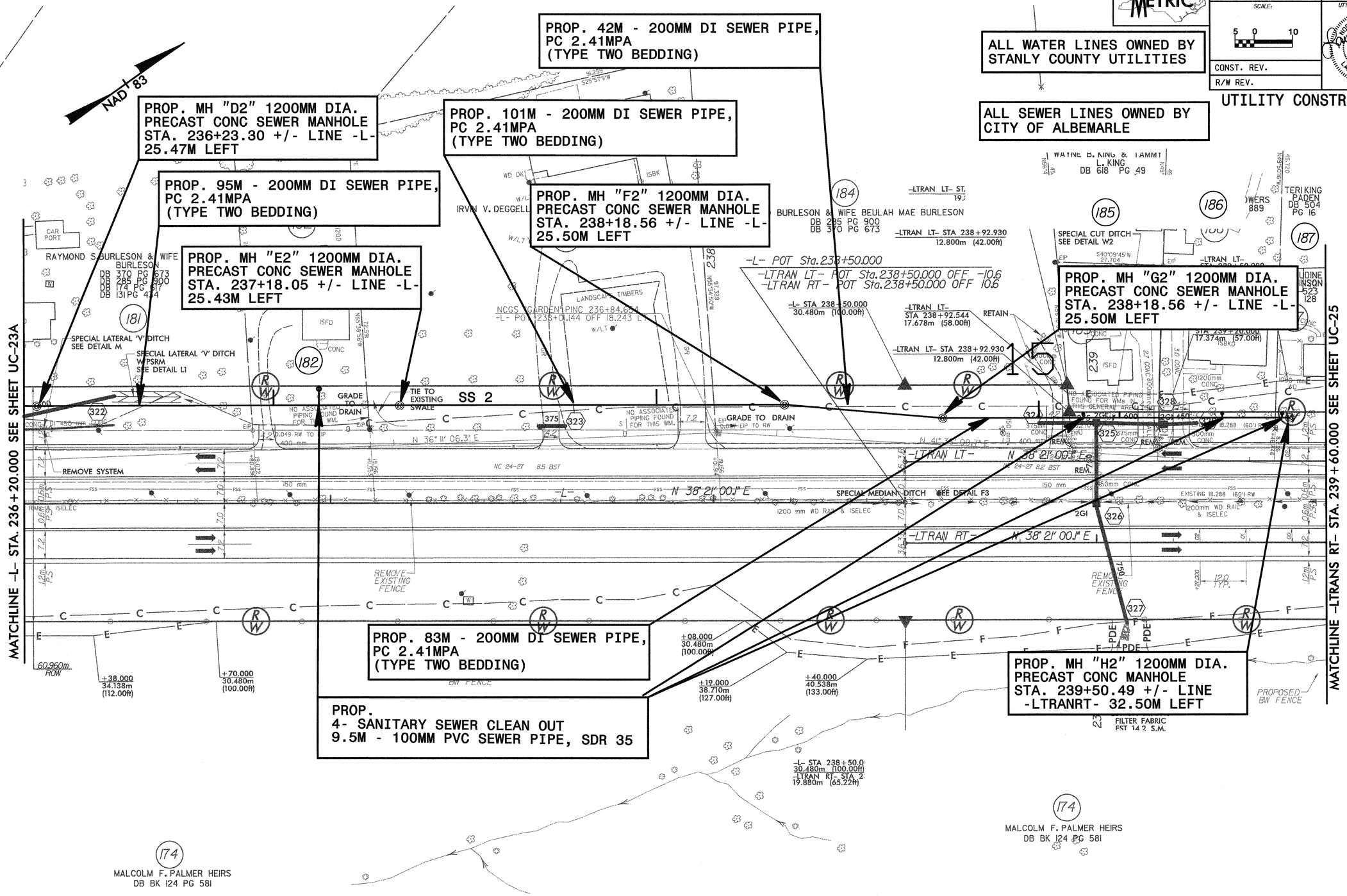
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 2-11-05

# UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

ALL SEWER LINES OWNED BY CITY OF ALBEMARLE

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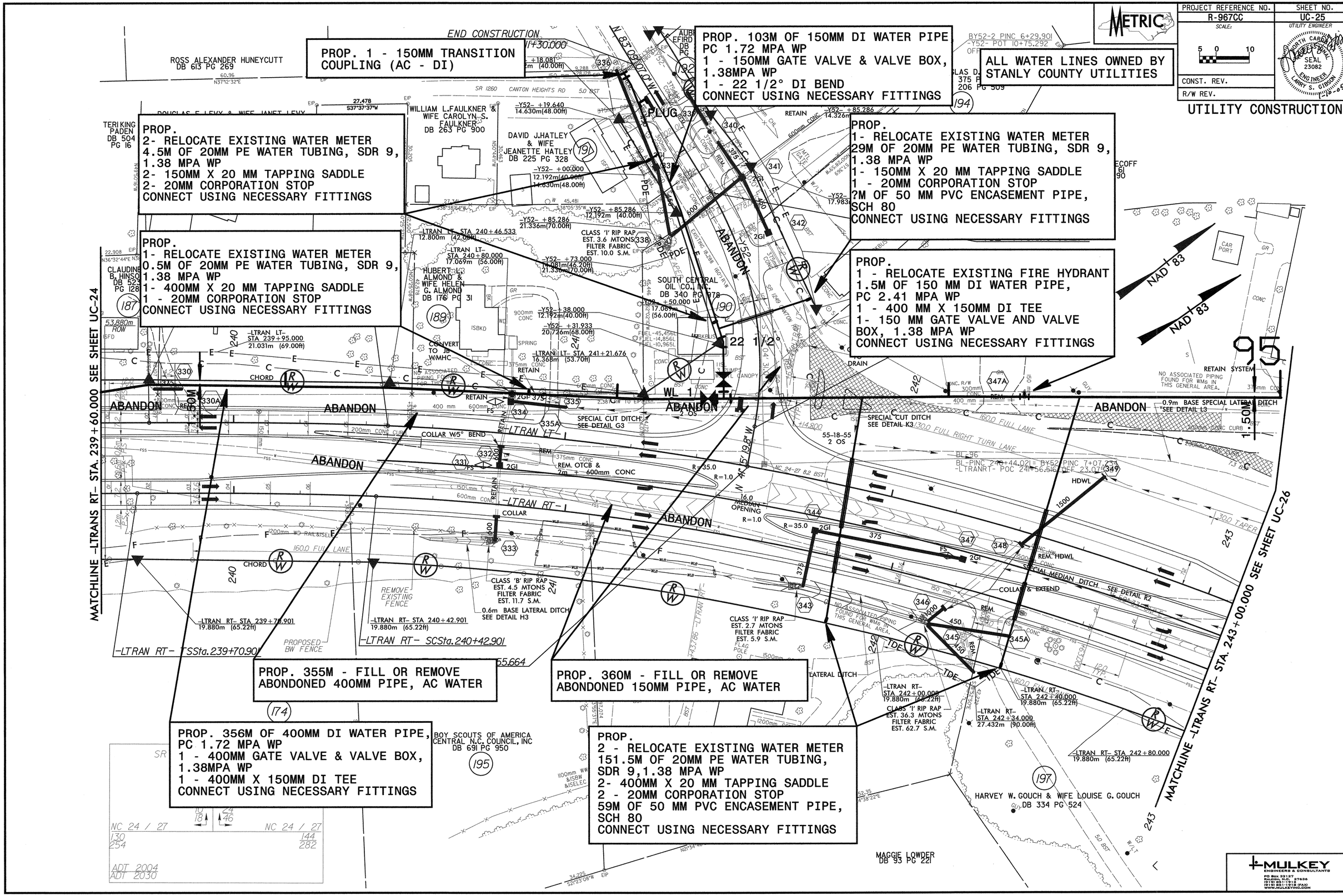

METRIC
PROJECT REFERENCE NO.
R-967CC
SHEET NO.
UC-25
SCALE:
5 0 10
CONST. REV.
R/W REV.
UTILITY ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON
UTILITY CONSTRUCTION
PROP. 1 - 150MM TRANSITION COUPLING (AC - DI)
PROP. 103M OF 150MM DI WATER PIPE
PC 1.72 MPA WP
1 - 150MM GATE VALVE & VALVE BOX, 1.38MPA WP
1 - 22 1/2° DI BEND
CONNECT USING NECESSARY FITTINGS
ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES
PROP.
2- RELOCATE EXISTING WATER METER
4.5M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
2- 150MM X 20 MM TAPPING SADDLE
2- 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP.
1- RELOCATE EXISTING WATER METER
29M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
1- 150MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
?M OF 50 MM PVC ENCASEMENT PIPE, SCH 80
CONNECT USING NECESSARY FITTINGS
PROP.
1- RELOCATE EXISTING WATER METER
0.5M OF 20MM PE WATER TUBING, SDR 9, 1.38 MPA WP
1- 400MM X 20 MM TAPPING SADDLE
1 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
1.5M OF 150 MM DI WATER PIPE, PC 2.41 MPA WP
1 - 400 MM X 150MM DI TEE
1- 150 MM GATE VALVE AND VALVE BOX, 1.38 MPA WP
CONNECT USING NECESSARY FITTINGS
PROP. 355M - FILL OR REMOVE ABONDONED 400MM PIPE, AC WATER
PROP. 360M - FILL OR REMOVE ABONDONED 150MM PIPE, AC WATER
PROP. 356M OF 400MM DI WATER PIPE, PC 1.72 MPA WP
1 - 400MM GATE VALVE & VALVE BOX, 1.38MPA WP
1 - 400MM X 150MM DI TEE
CONNECT USING NECESSARY FITTINGS
PROP.
2 - RELOCATE EXISTING WATER METER
151.5M OF 20MM PE WATER TUBING, SDR 9,1.38 MPA WP
2- 400MM X 20 MM TAPPING SADDLE
2 - 20MM CORPORATION STOP
59M OF 50 MM PVC ENCASEMENT PIPE, SCH 80
CONNECT USING NECESSARY FITTINGS
MATCHLINE -LTRANS RT- STA. 239+60.000 SEE SHEET UC-24
MATCHLINE -LTRANS RT- STA. 243+00.000 SEE SHEET UC-26
END CONSTRUCTION
ROSS ALEXANDER HUNEYCUTT DB 613 PG 269
WILLIAM L.FAULKNER & WIFE CAROLYN S. FAULKNER DB 263 PG 900
DAVID J.HATLEY & WIFE JEANETTE HATLEY DB 225 PG 328
SOUTH CENTRAL OIL CO., INC. DB 340 PG 978
HUBERT L. ALMOND & WIFE HELEN G. ALMOND DB 176 PG 31
BOY SCOUTS OF AMERICA CENTRAL N.C. COUNCIL, INC DB 691 PG 950
HARVEY W. GOUCH & WIFE LOUISE G. GOUCH DB 334 PG 524
MAGGIE LOWDER DB 93 PG 221
NAD 83
22 1/2°
WL 1
ABANDON
-LTRAN RT- TSSta.239+70.901
-LTRAN RT- SCSta.240+42.901
-LTRAN RT- STA 239+70.901 19.880m (65.22ft)
-LTRAN RT- STA 240+42.901 19.880m (65.22ft)
-LTRAN RT- STA 242+00.000 19.880m (65.22ft)
-LTRAN RT- STA 242+40.000 19.880m (65.22ft)
-LTRAN RT- STA 242+34.000 27.432m (90.00ft)
-LTRAN RT- STA 242+80.000 19.880m (65.22ft)
CLASS 'I' RIP RAP EST. 3.6 MTONS FILTER FABRIC EST. 10.0 S.M.
CLASS 'B' RIP RAP EST. 4.5 MTONS FILTER FABRIC EST. 11.7 S.M.
CLASS 'I' RIP RAP EST. 2.7 MTONS FILTER FABRIC EST. 5.9 S.M.
CLASS 'I' RIP RAP EST. 36.3 MTONS FILTER FABRIC EST. 62.7 S.M.
SPECIAL CUT DITCH SEE DETAIL G3
SPECIAL CUT DITCH SEE DETAIL K3
SPECIAL MEDIAN DITCH SEE DETAIL R2
0.9m BASE SPECIAL LATERAL DITCH SEE DETAIL L3
0.6m BASE LATERAL DITCH SEE DETAIL H3
REMOVE EXISTING FENCE
PROPOSED BW FENCE
NO ASSOCIATED PIPING FOUND FOR WMs IN THIS GENERAL AREA.
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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-26 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

# UTILITY CONSTRUCTION

PROP. 217.5M OF 400MM DI WATER PIPE
PC 1.72 MPA WP
1 - 400 MM GATE VALVE AND VALVE BOX
1.38 MPA WP
1 - 400MM X 300MM DI TEE
2 - 45° DI BEND
CONNECT USING NECESSARY FITTINGS

PROP. 1 - 400MM TRANSITION COUPLING (AC - DI)

ALL 400MM WATER LINE OWNED BY STANLY COUNTY UTILTIES
ALL 300MM WATER LINE OWNED BY THE CITY OF ALBEMARLE

PROP.
2- RELOCATE EXISTING WATER METER
5.5M OF 20MM PE WATER TUBING, SDR 9,
1.38 MPA WP
2- 400MM X 20 MM TAPPING SADDLE
2 - 20MM CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP. 176M OF 300MM DI WATER PIPE
PC 1.72 MPA WP
1 - 300 MM GATE VALVE AND VALVE BOX
1.38 MPA WP
5 - 45° DI BEND
CONNECT USING NECESSARY FITTINGS

PROP. 196.5M - FILL OR REMOVE ABONDONED 400MM PIPE, AC WATER

CONNECT USING NECESSARY FITTINGS

MATCHLINE -LTRANS RT- 243+00.000 SEE SHEET UC-25

MATCHLINE -LTRANS RT- STA 246+00.000 SEE SHEET UC-27

END CONSTRUCTION
-Y53- POT STA.13+00.000

NAD 83


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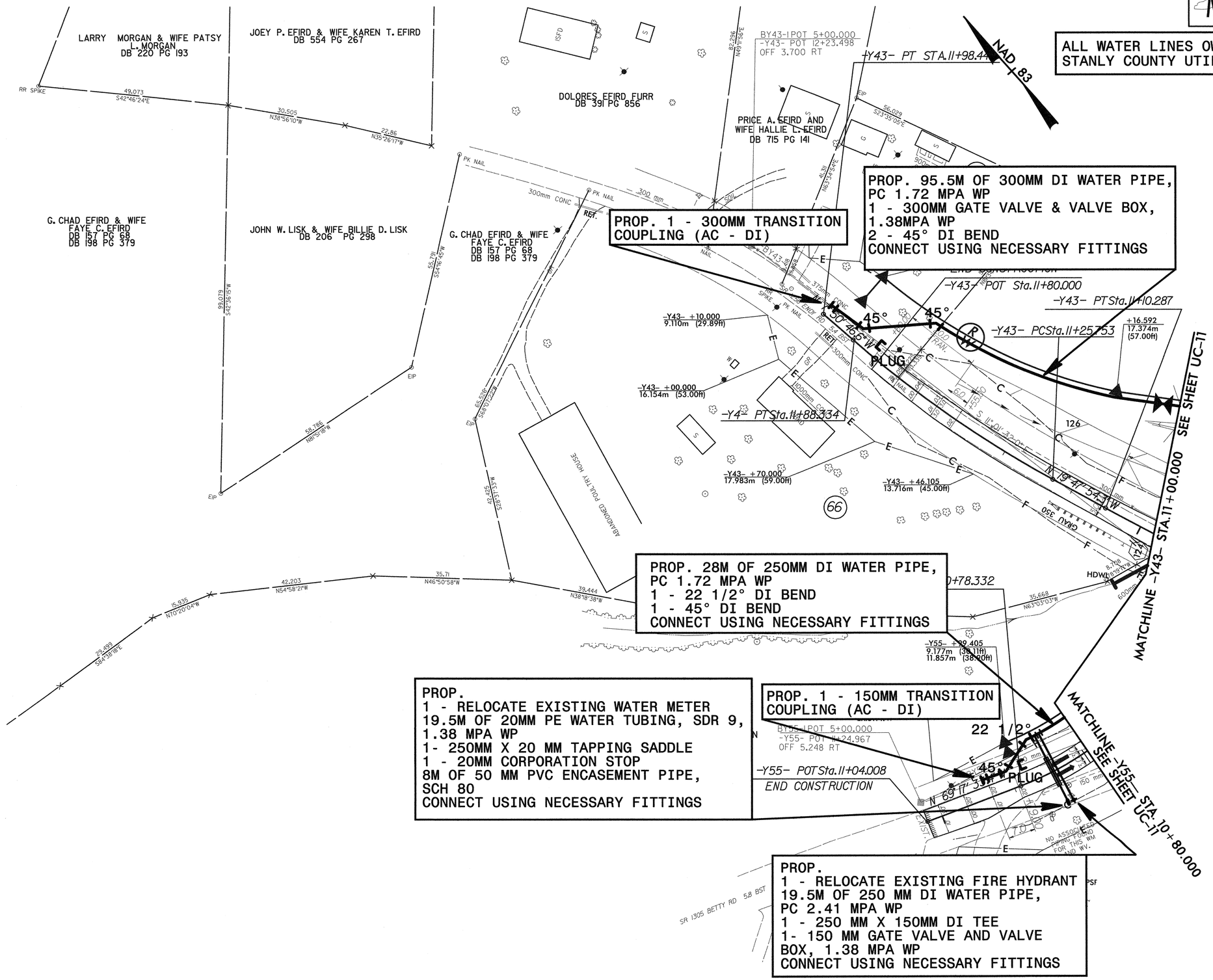
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-27 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

# UTILITY CONSTRUCTION

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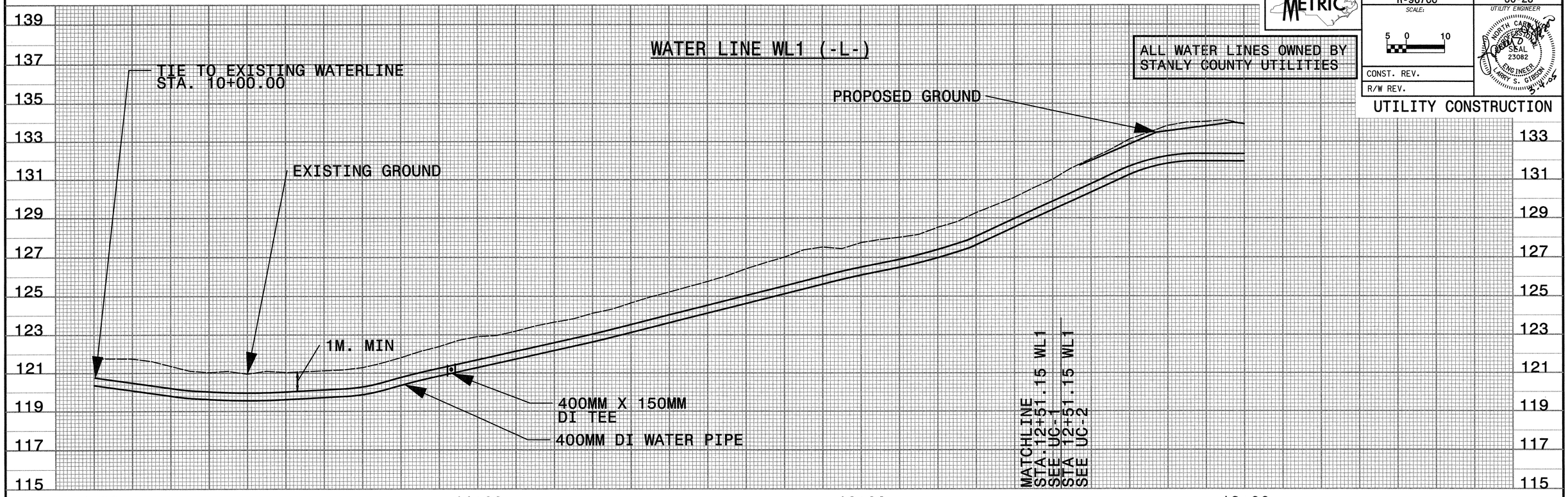
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-28 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

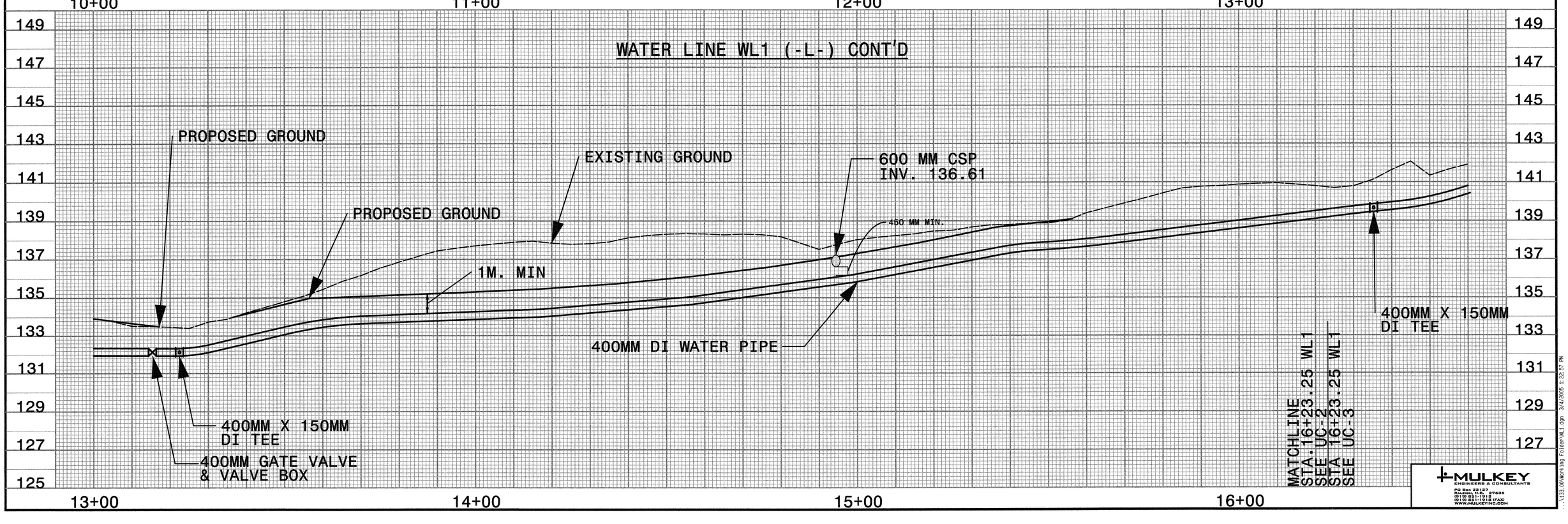
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 3-4-05

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES





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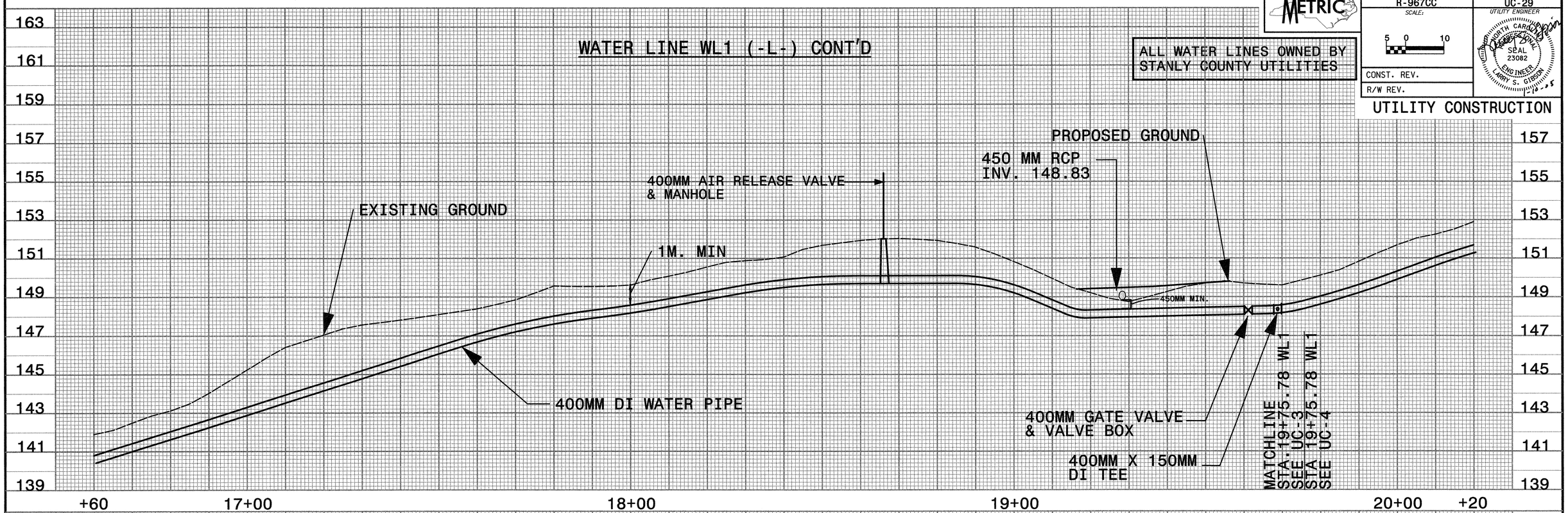
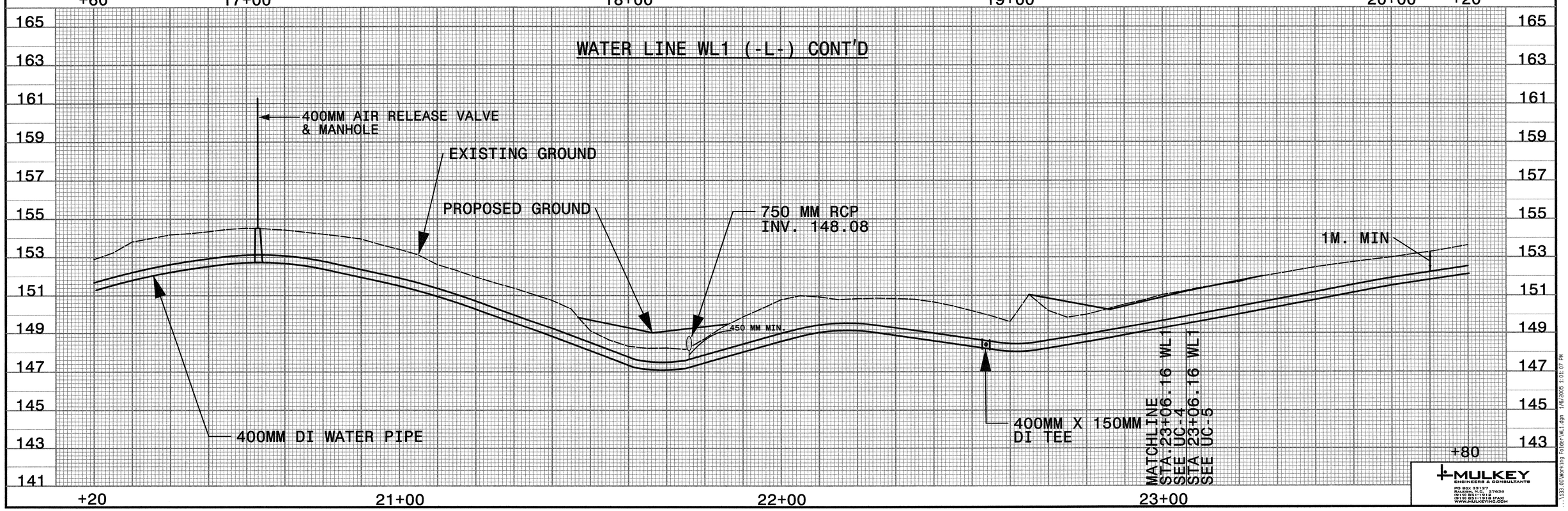
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-29 |
| SCALE: | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

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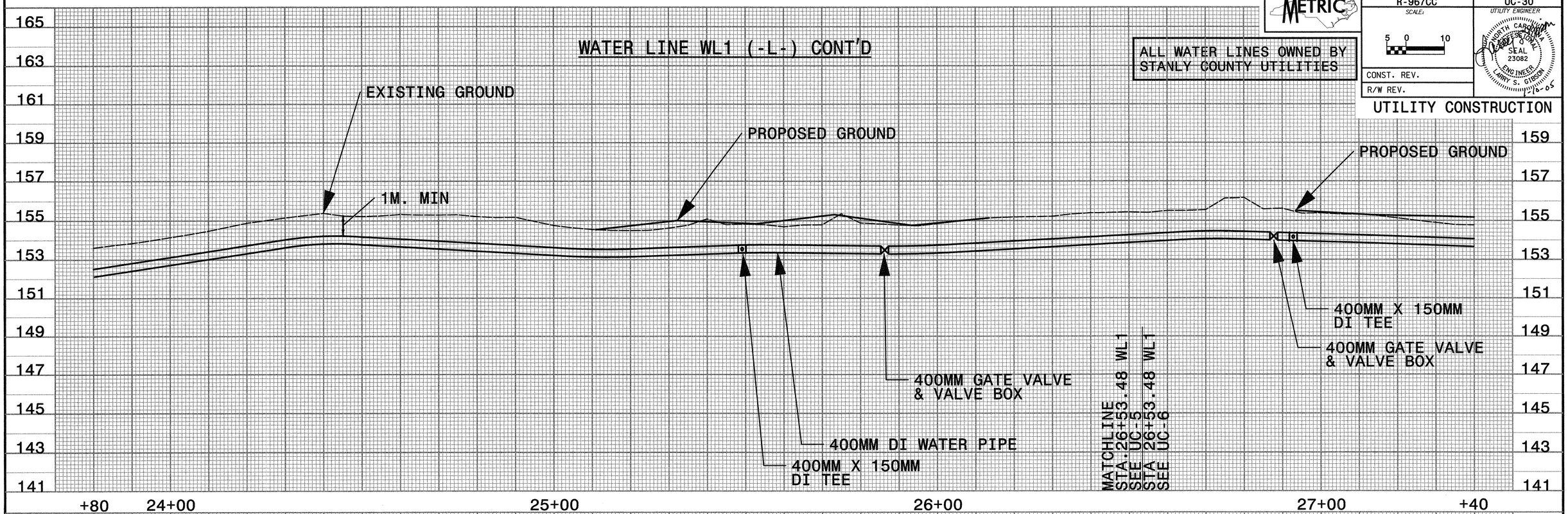
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-30 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

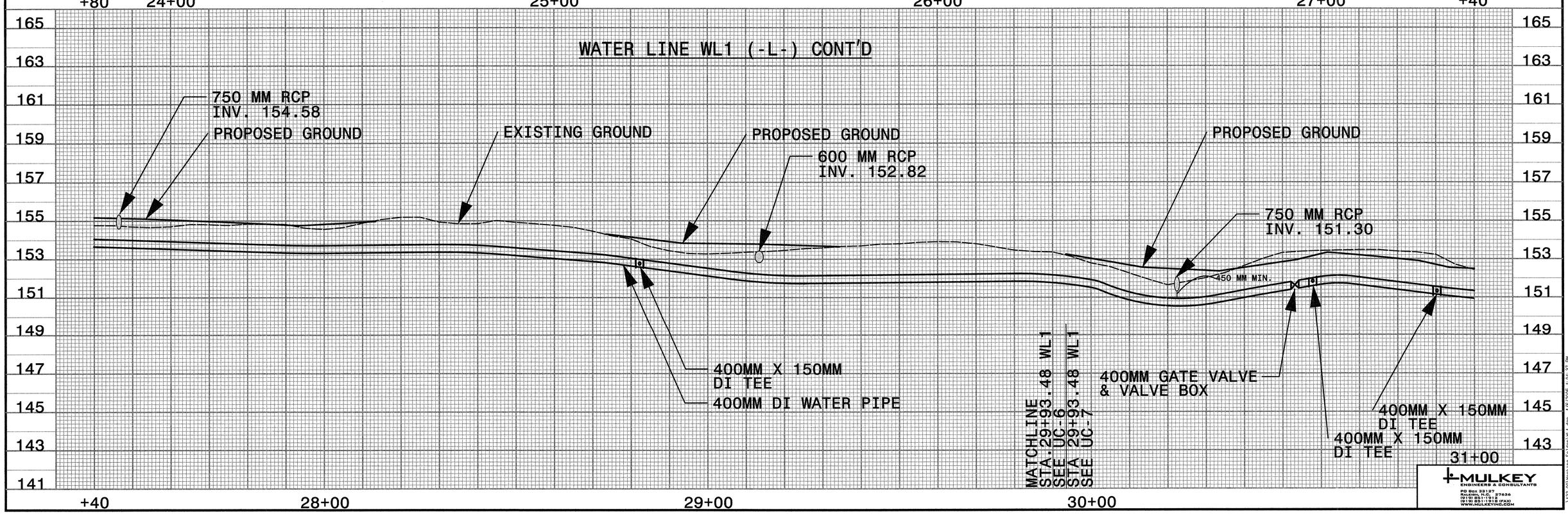
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1/6-05

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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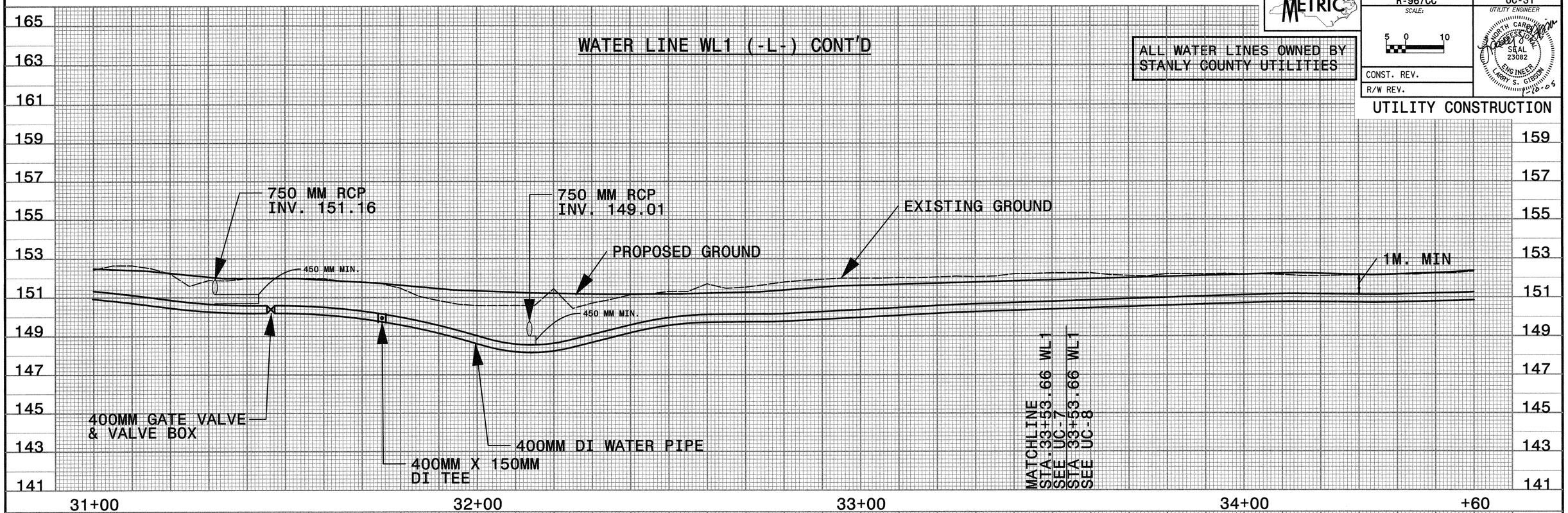
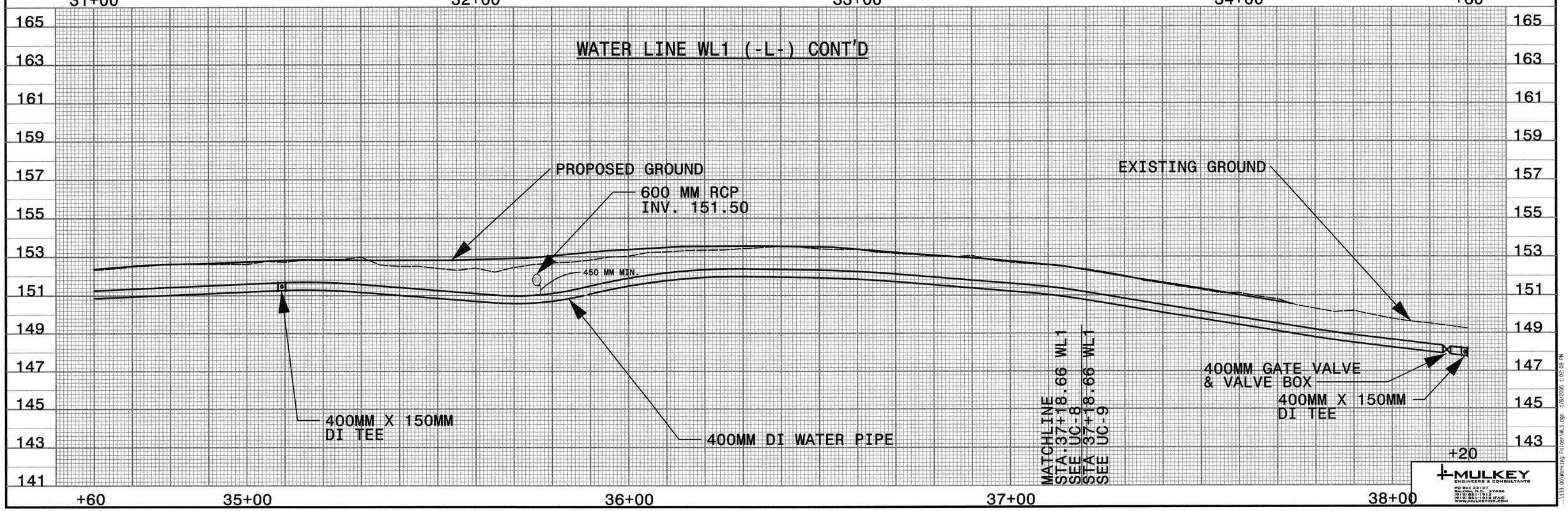
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-31 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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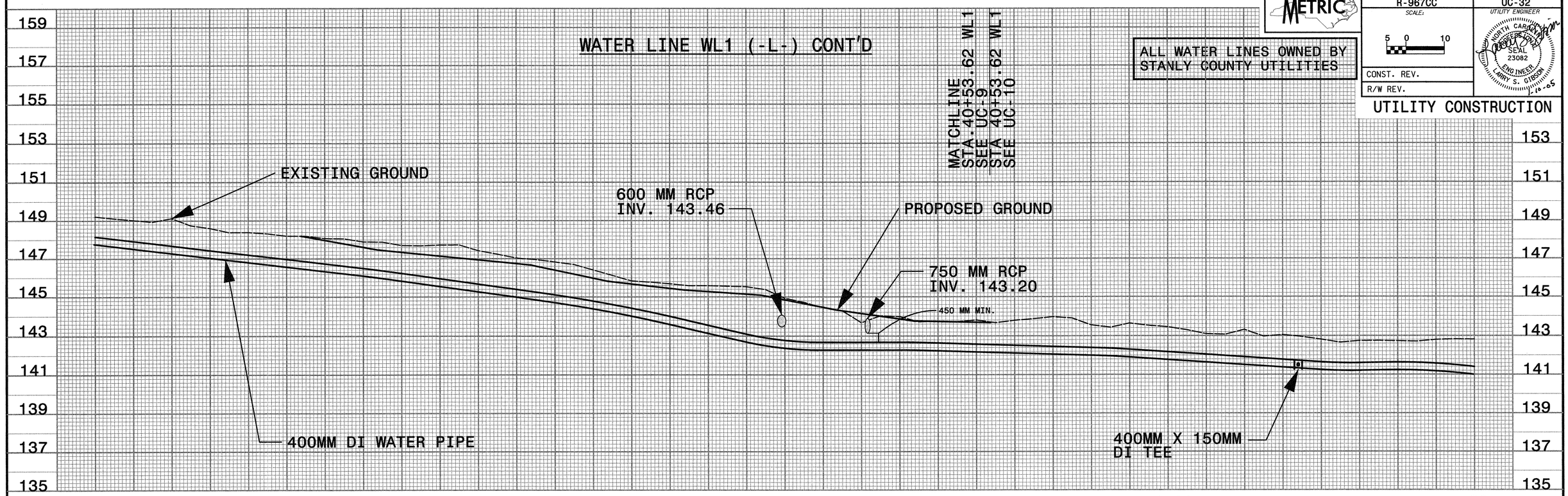
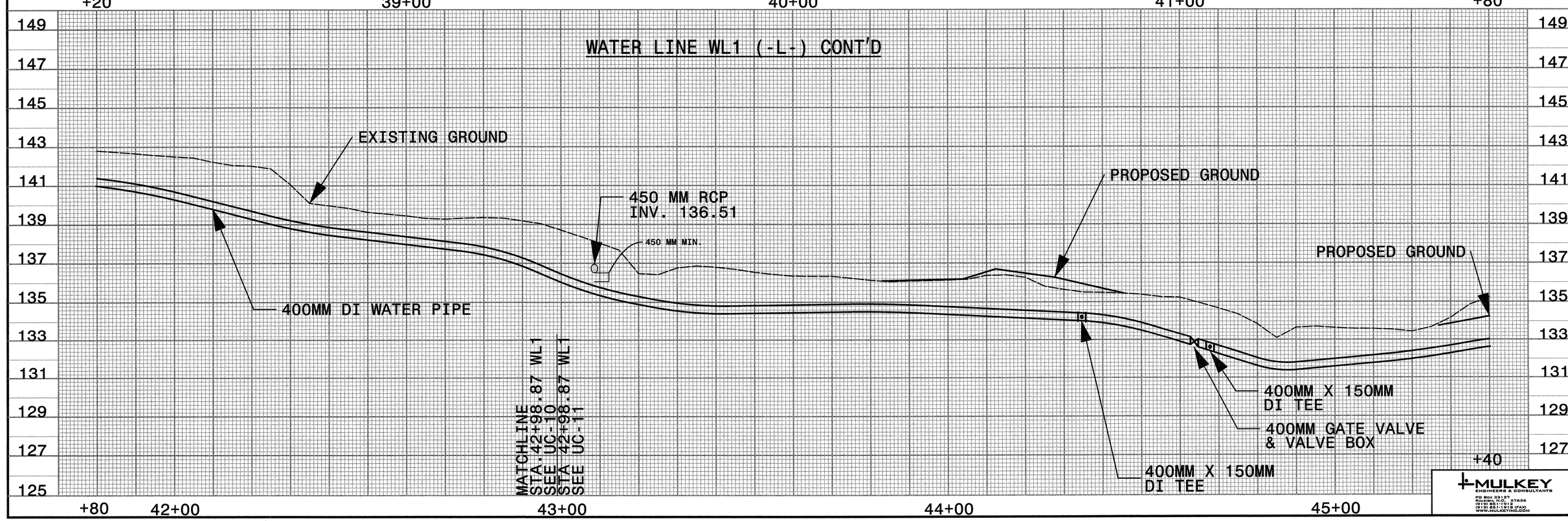
| R-967CC | UC-32 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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| PROJECT REFERENCE NO. | SHEET NO. |
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| R-967CC | UC-33 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

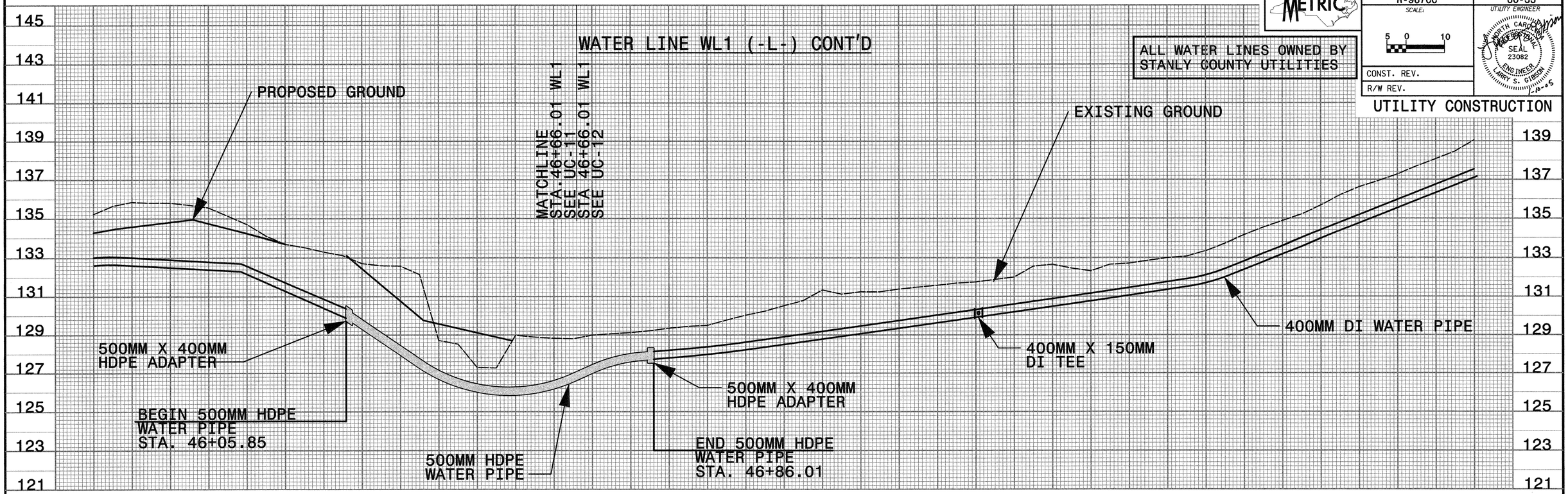
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

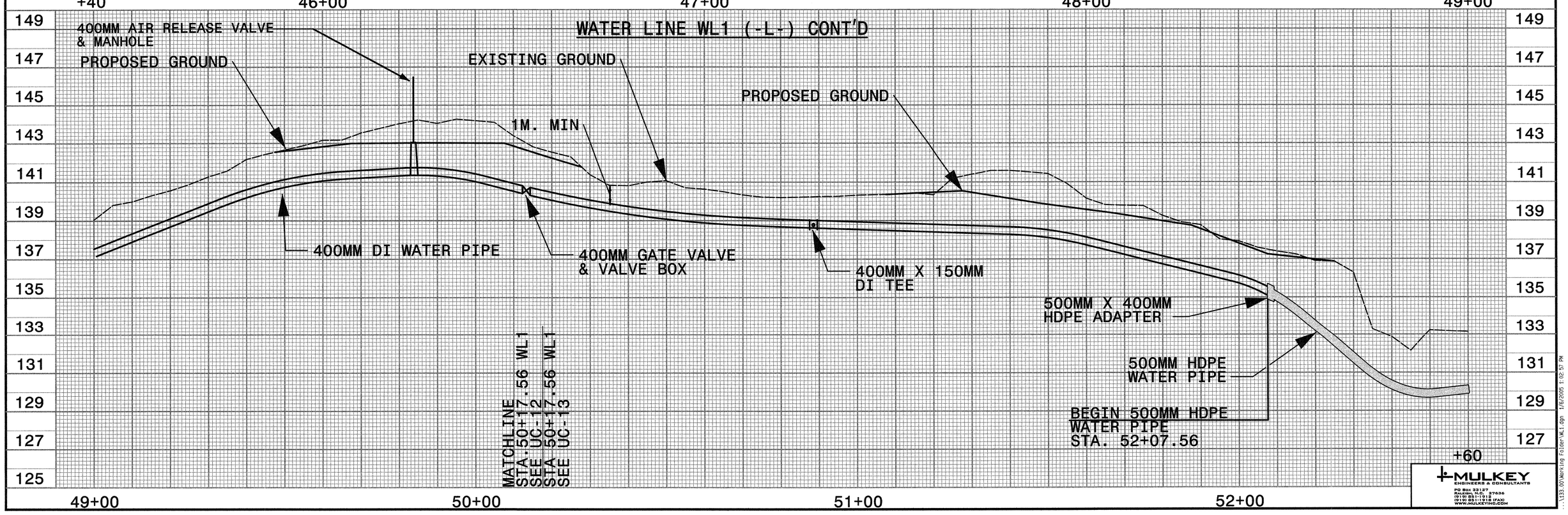
UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

## WATER LINE WL1 (-L-) CONT'D




## WATER LINE WL1 (-L-) CONT'D

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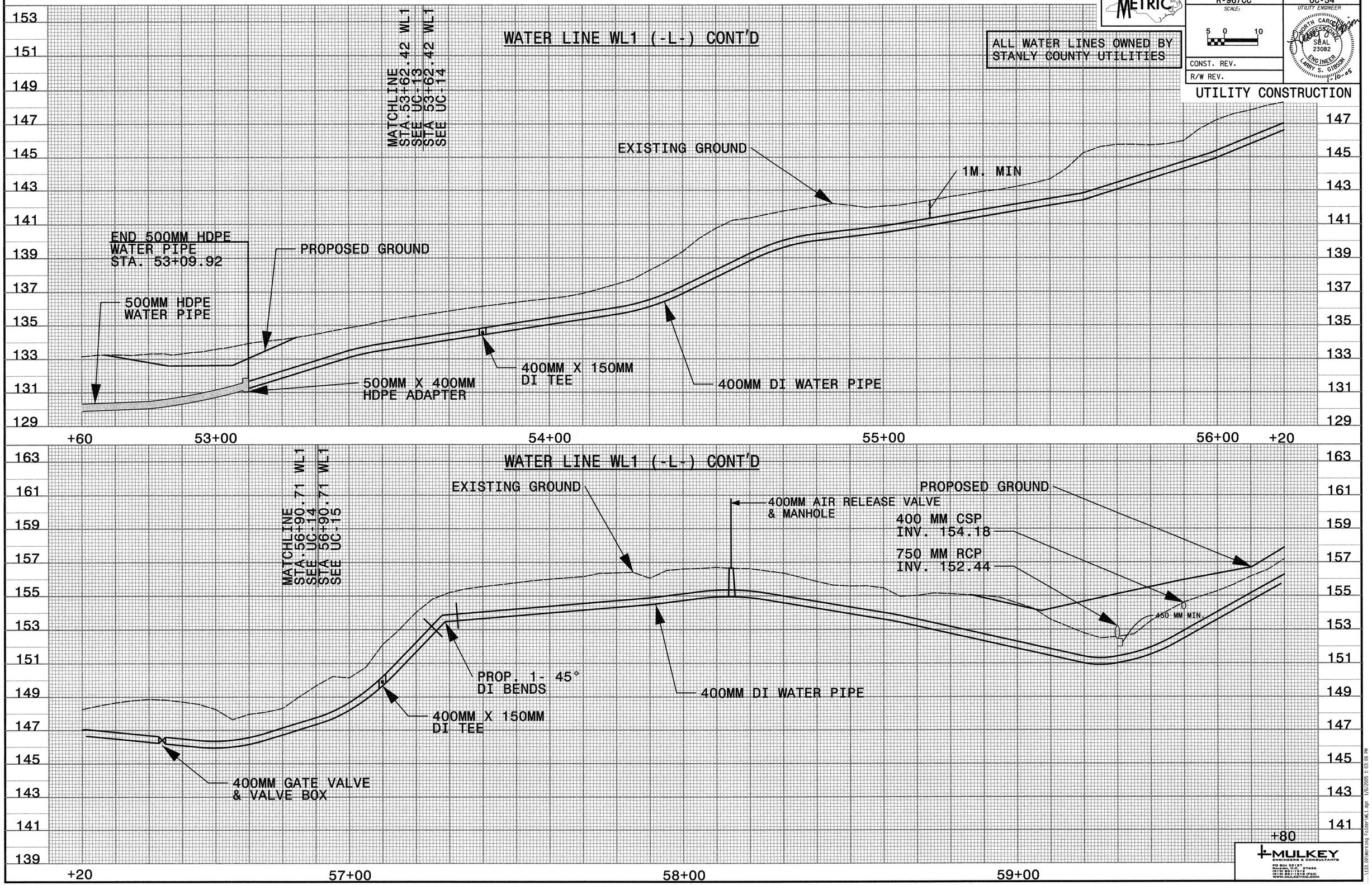
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-34 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1-10-05

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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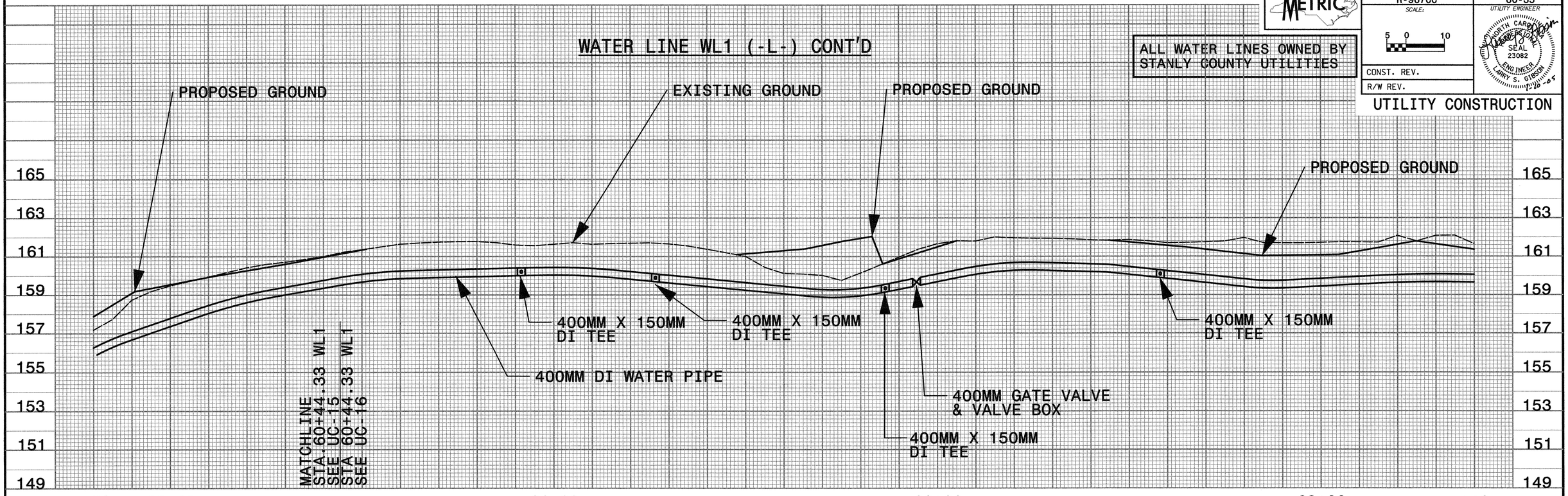
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-35 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

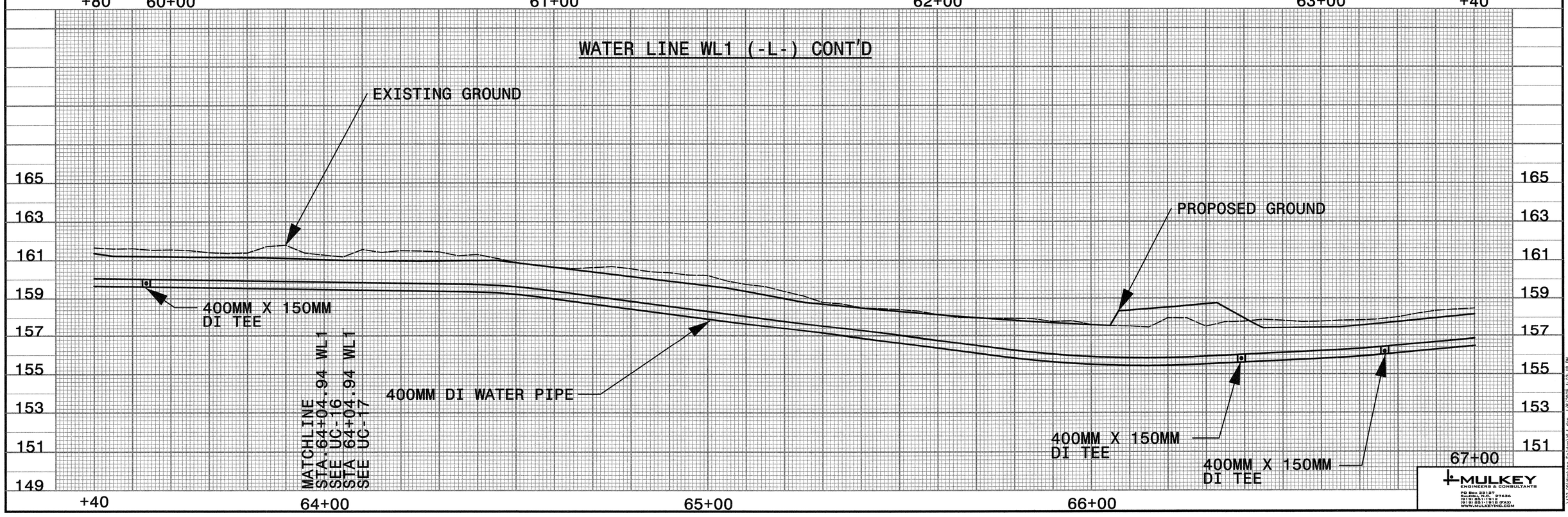
UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

## WATER LINE WL1 (-L-) CONT'D




## WATER LINE WL1 (-L-) CONT'D

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| PROJECT REFERENCE NO. | SHEET NO. |
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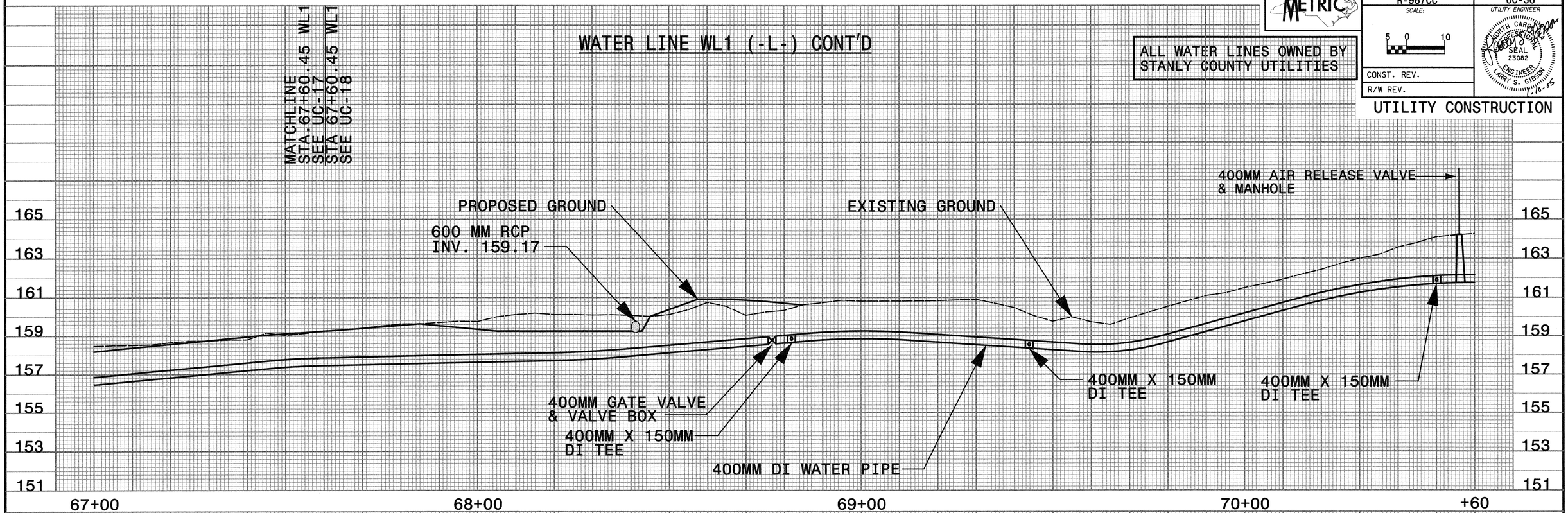
| R-967CC | UC-36 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

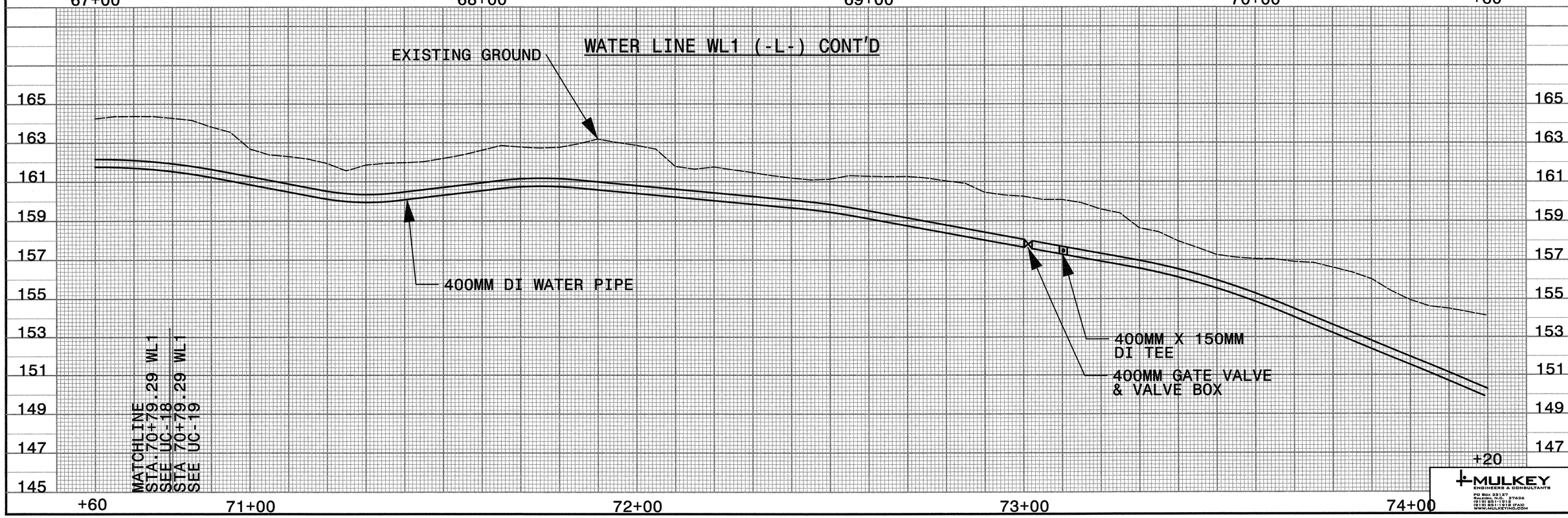
UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

## WATER LINE WL1 (-L-) CONT'D




## WATER LINE WL1 (-L-) CONT'D

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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-37 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

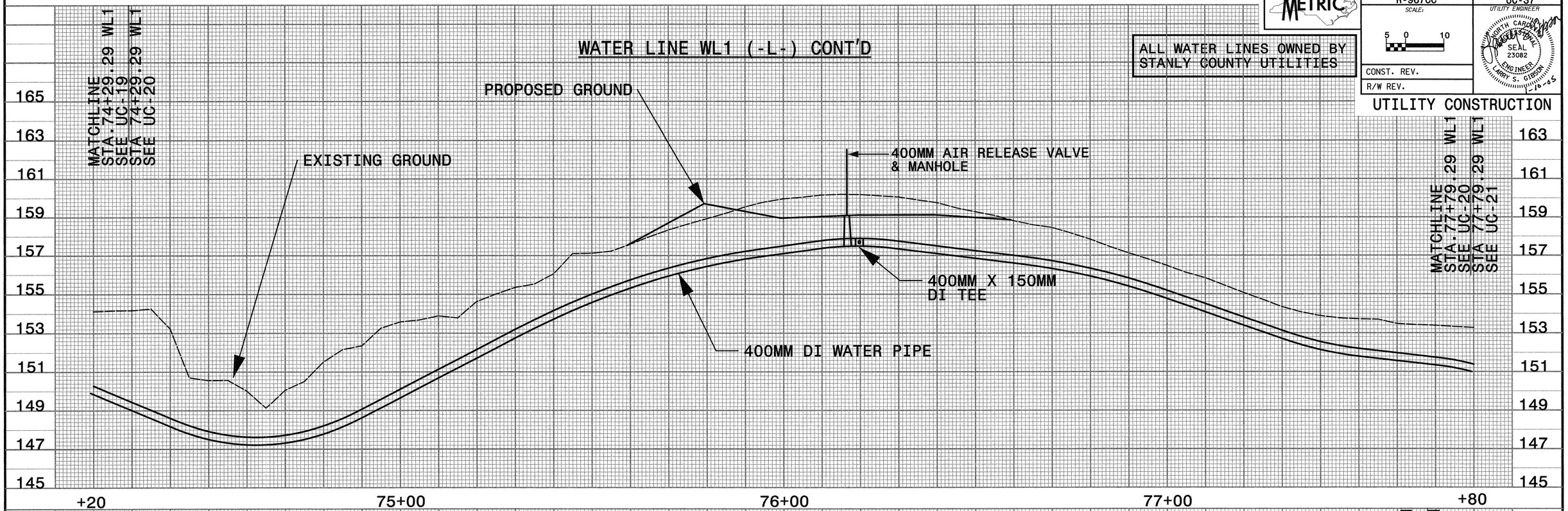
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1-10-05

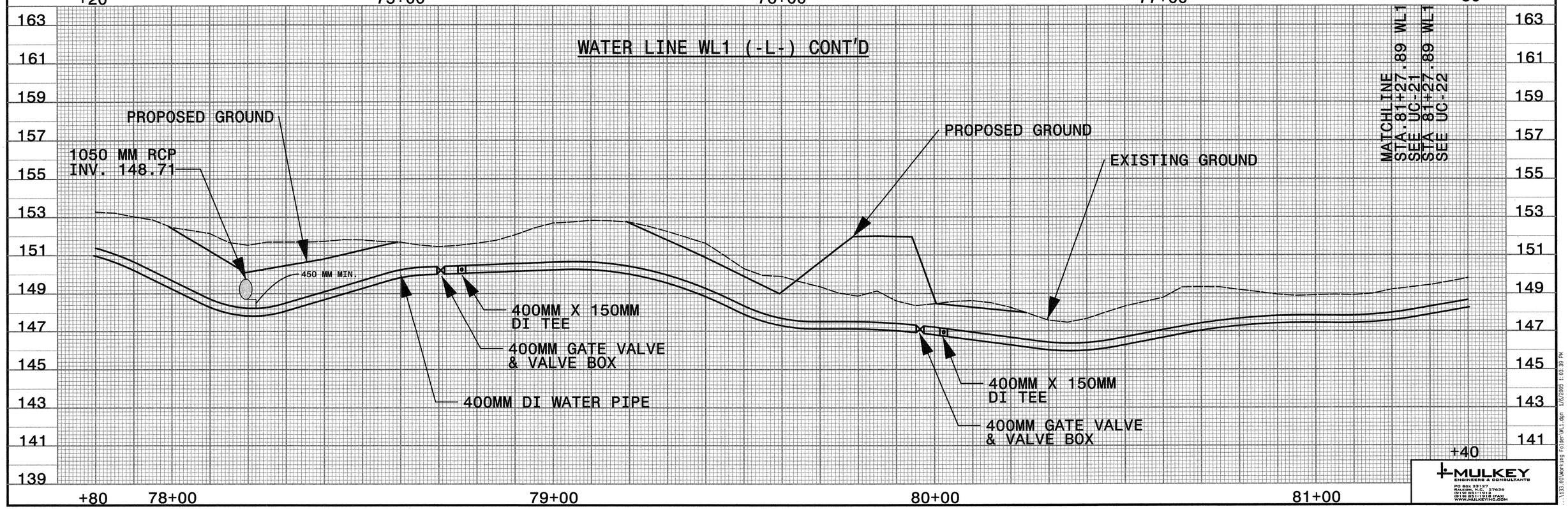
UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

## WATER LINE WL1 (-L-) CONT'D




## WATER LINE WL1 (-L-) CONT'D





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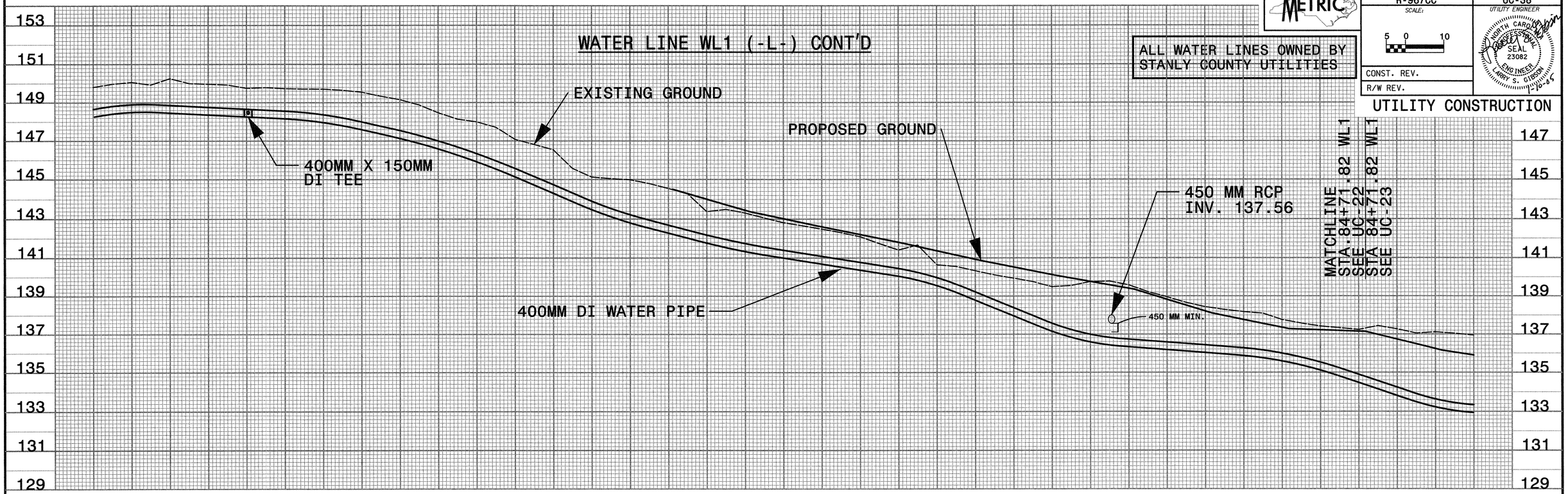
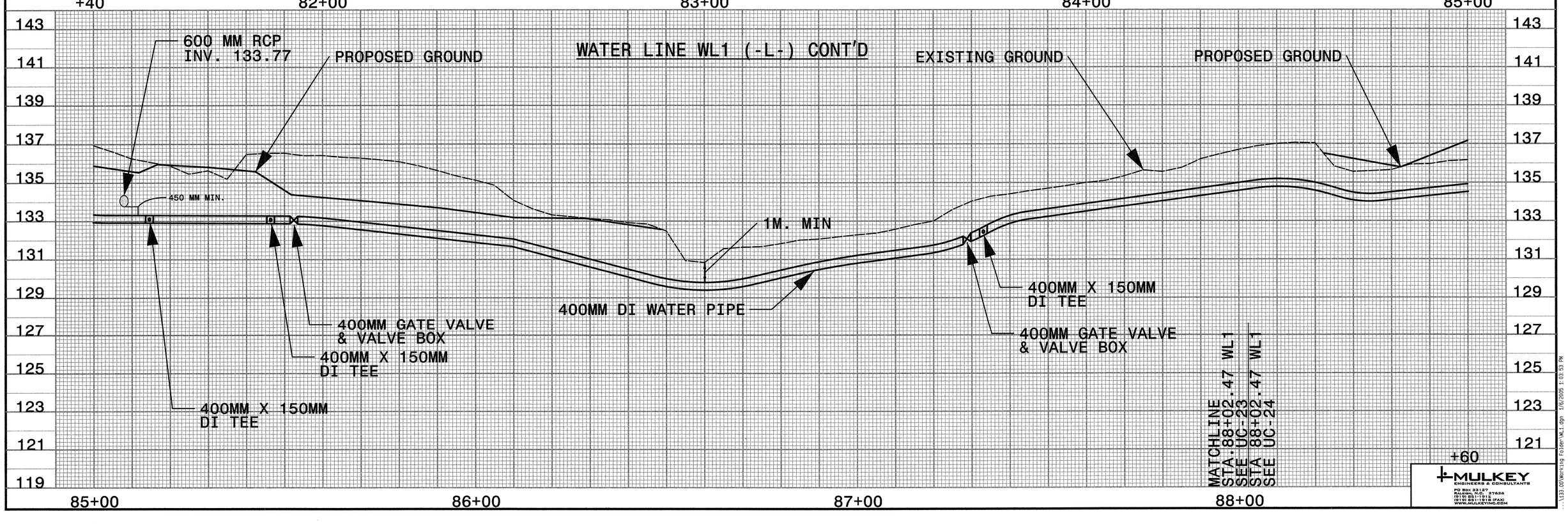
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-38 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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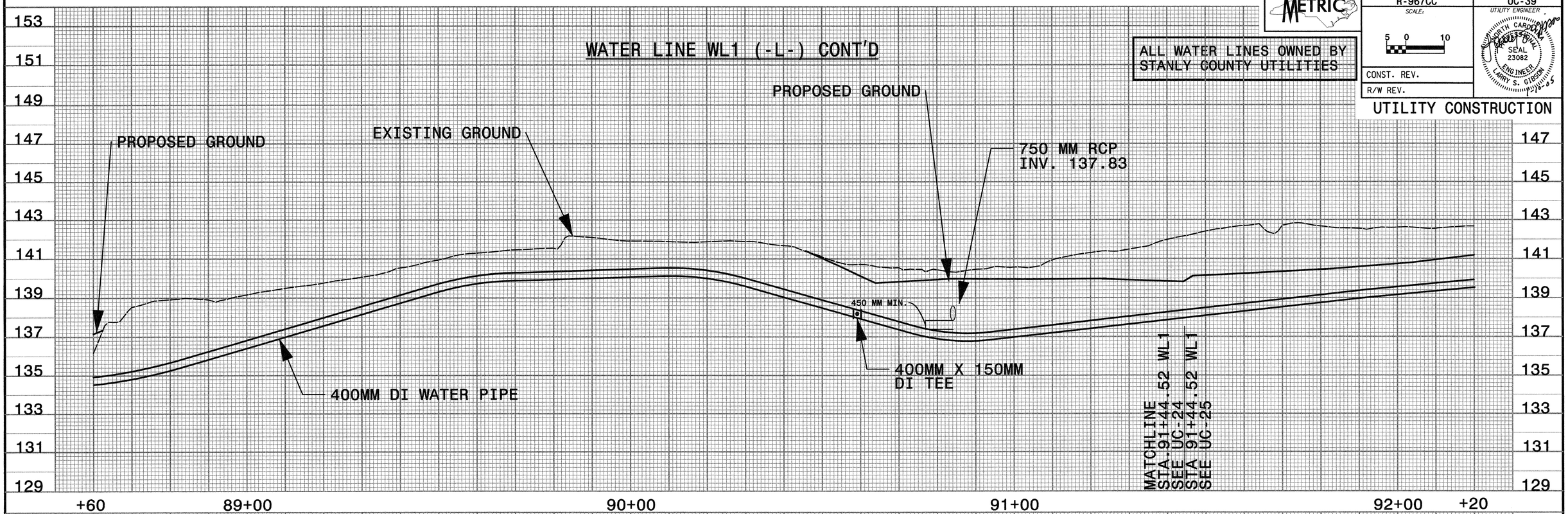
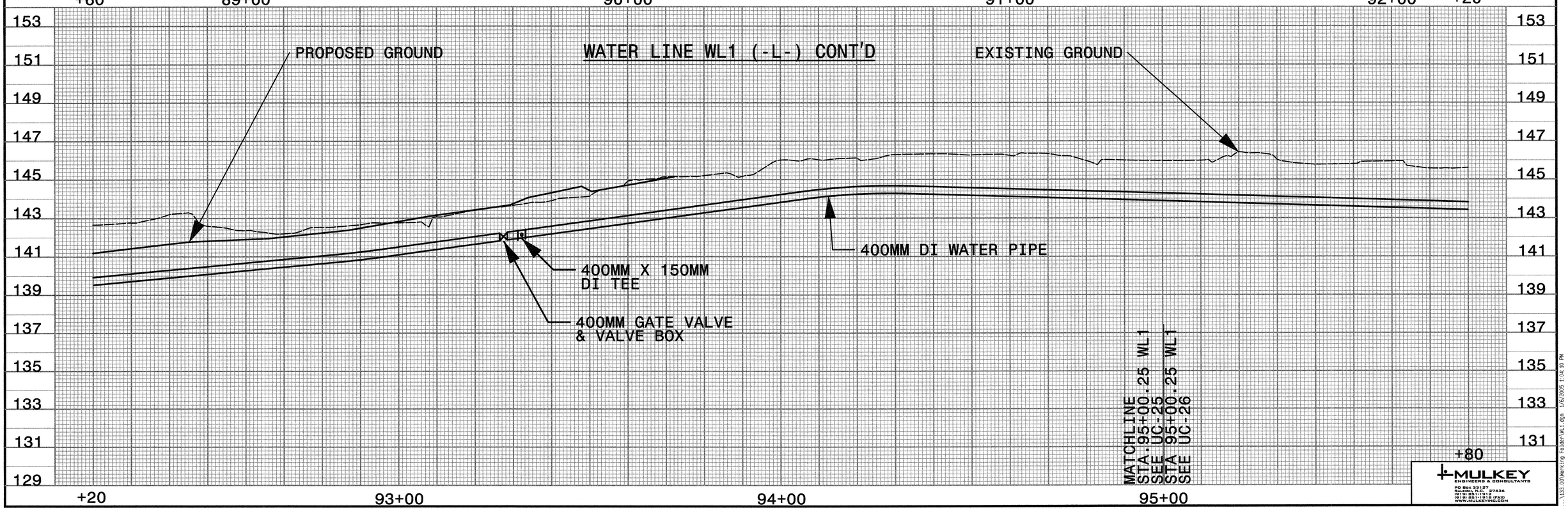
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-39 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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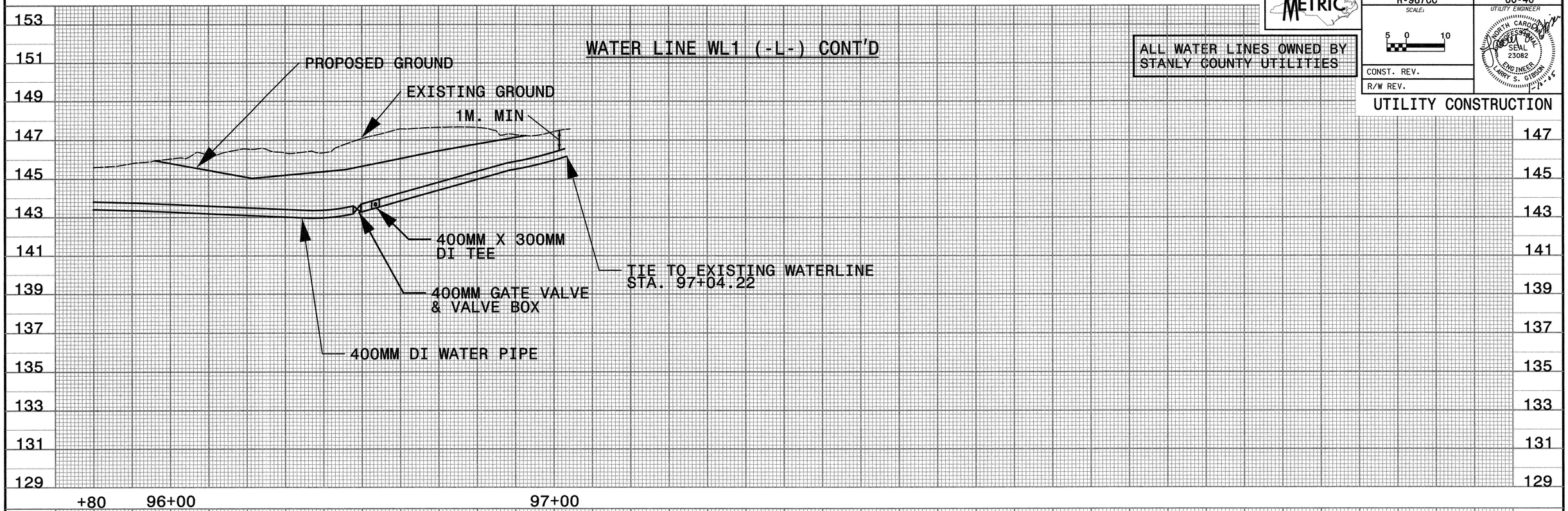
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-40 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

## WATER LINE WL1 (-L-) CONT'D





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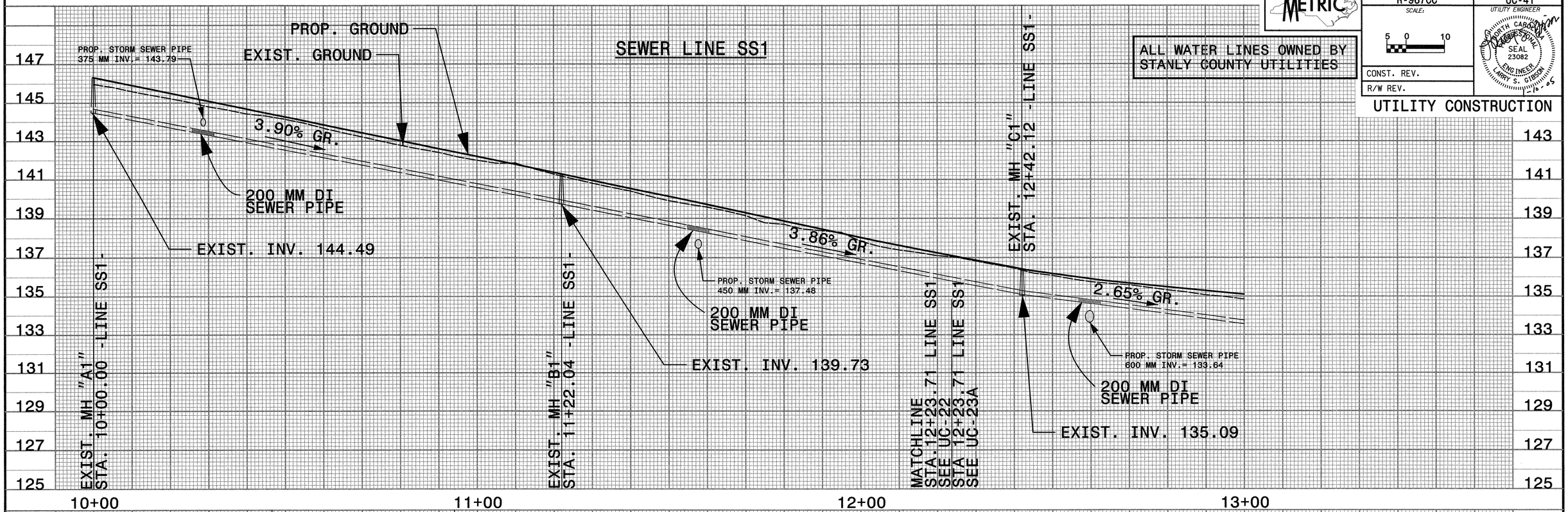
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-41 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

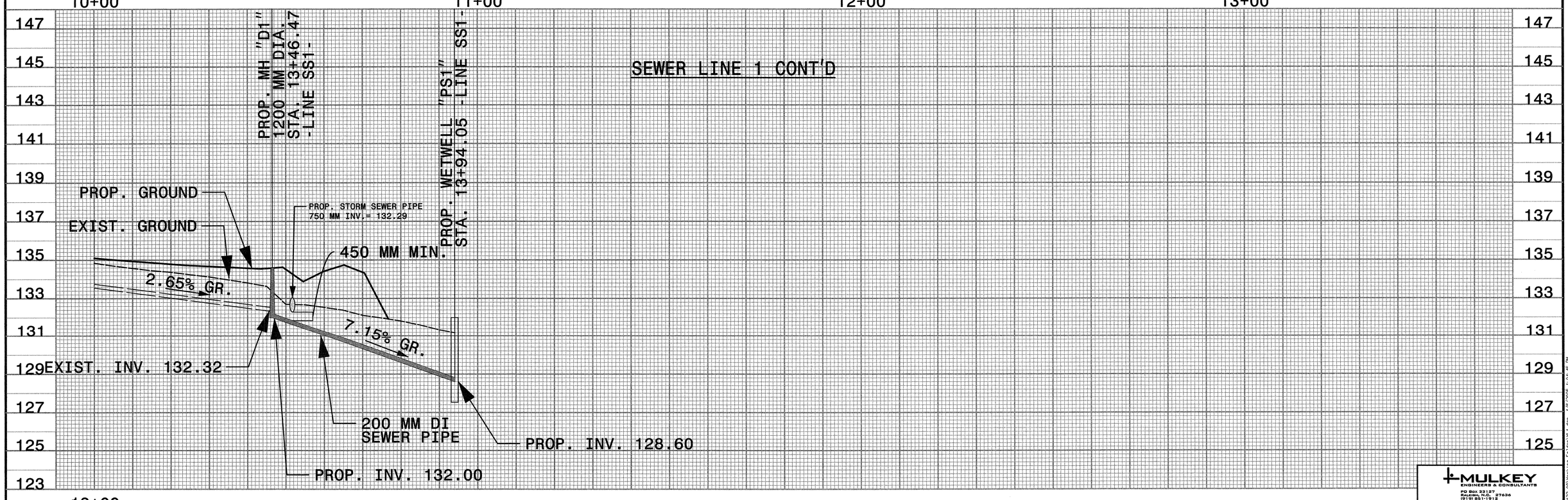
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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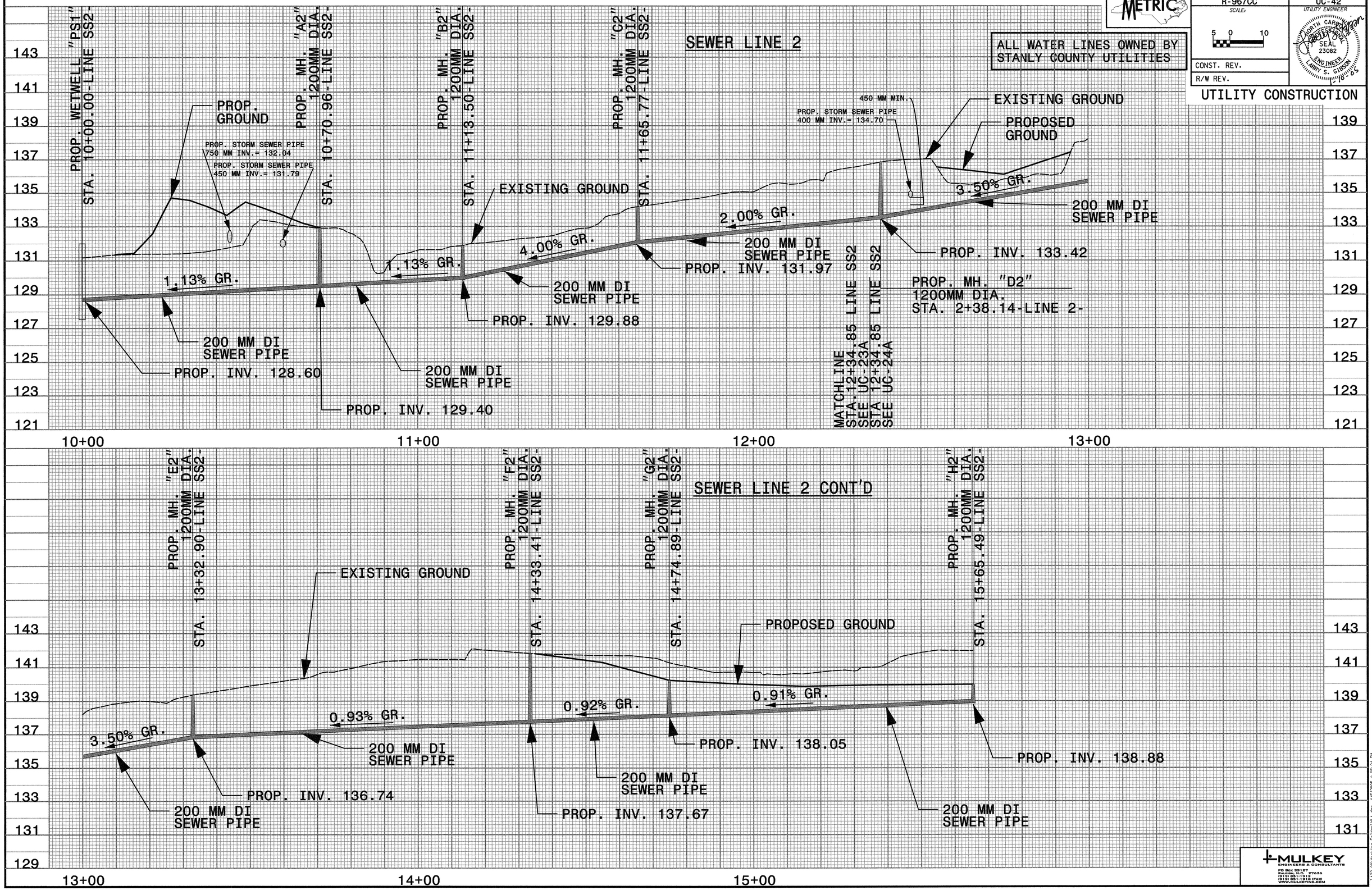
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-42 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

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| PROJECT REFERENCE NO. | SHEET NO. |
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| R-967CC | UC-43 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

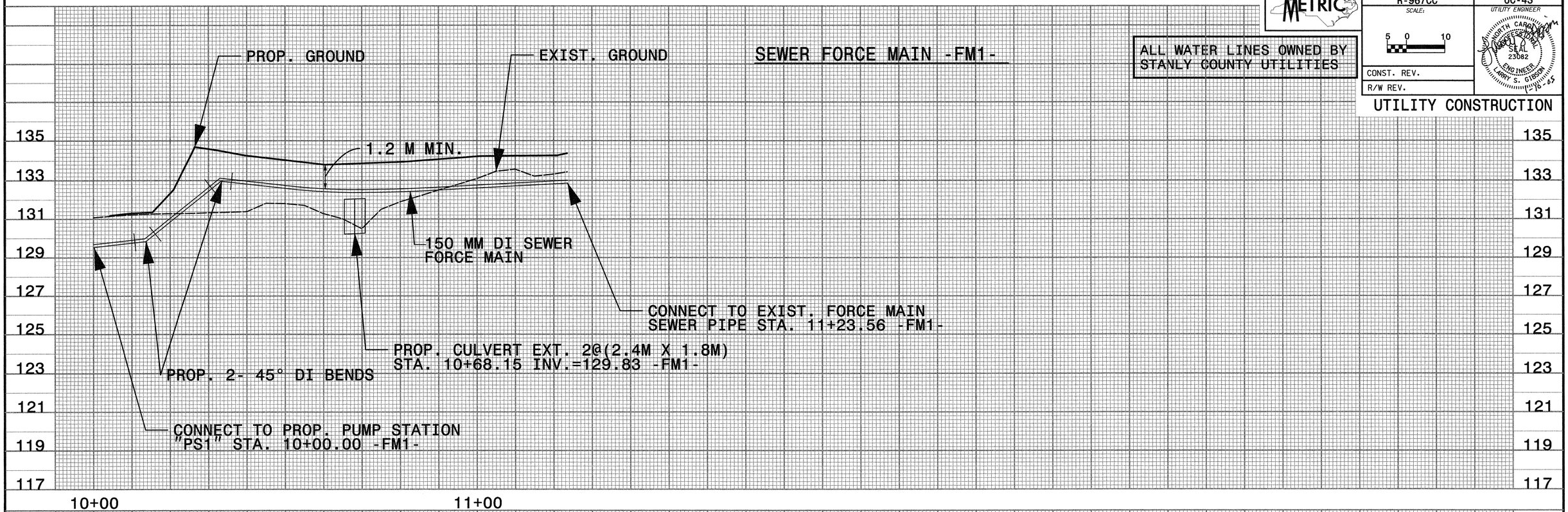
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 1/6/06

UTILITY CONSTRUCTION

ALL WATER LINES OWNED BY STANLY COUNTY UTILITIES

## SEWER FORCE MAIN -FM1-





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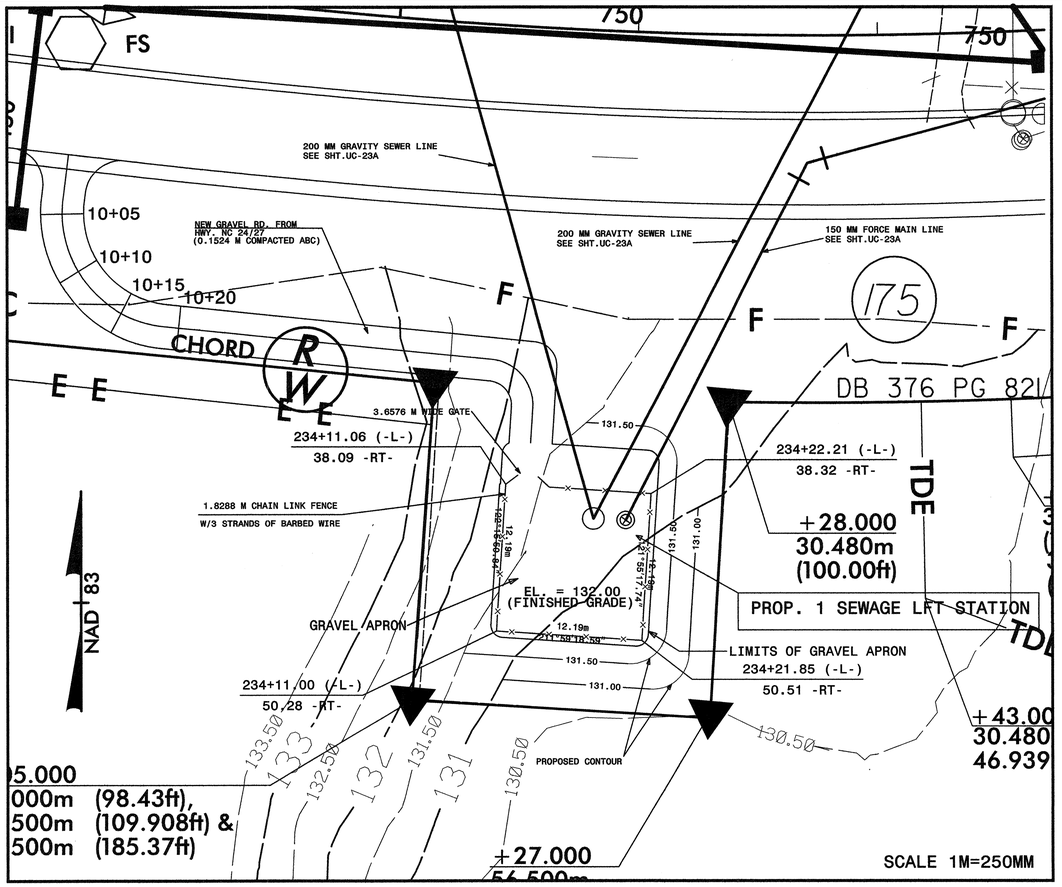
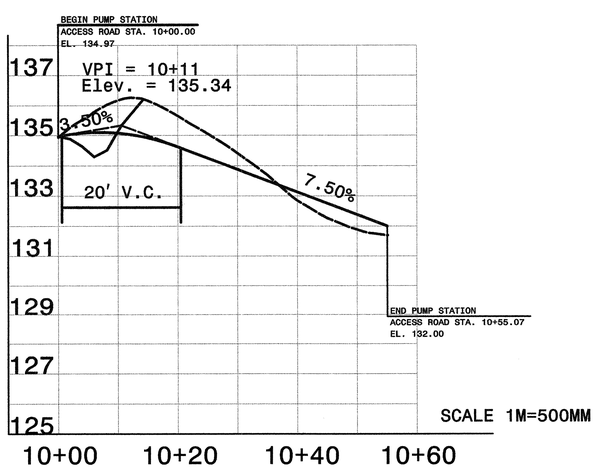
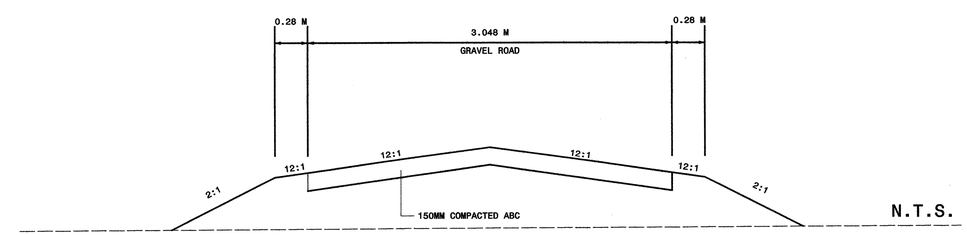
# PUMP STATION SITE PLAN




# ACCESS ROAD PROFILE




# ACCESS ROAD TYPICAL

METRIC

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC- 44 |
| SCALE: 5 0 10 | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

UTILITY CONSTRUCTION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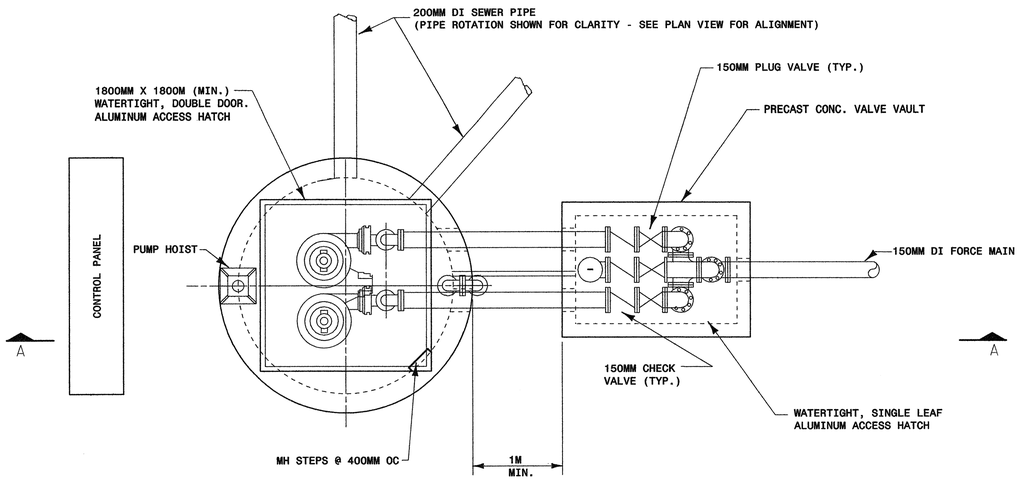
# PUMP STATION DETAIL

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-45 |
| SCALE: N.T.S. | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

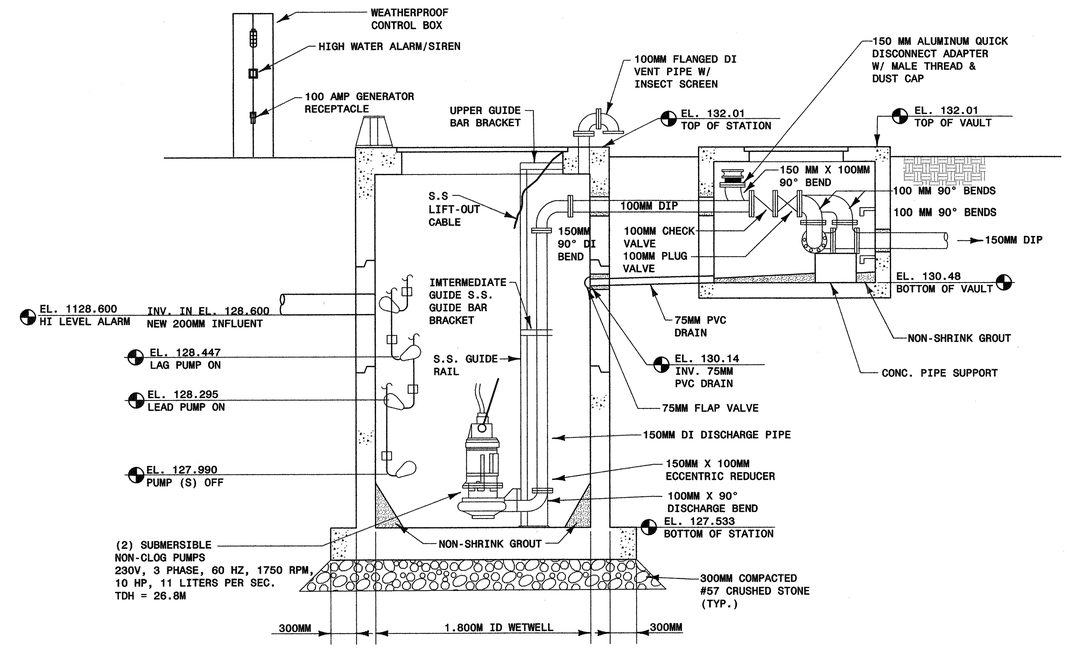
METRIC

NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON

UTILITY CONSTRUCTION




## PLAN VIEW




## SECTION AA

1. ALL BACKFILL AROUND WET WELL AND VALVE BOX SHALL BE CAREFULLY BACKFILLED TO 95% OF STANDARD OR MODIFIED PROCTOR DENSITY, AS DETERMINED BY AASHTO SPEC. T-180, MODIFIED.
2. DIMENSIONS MAY VARY PER MFG., CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
3. SEE SITE PLAN FOR ORIENTATION OF PIPING, ELECTRICAL/CONTROL PANEL AND CONNECTING CONDUITS.
4. PROVIDE MINIMUM 1M COVER ON ALL BURIED PIPE.
5. ALL PIPING WITHIN THE PUMP STATION AND VALVE BOX SHALL BE D.I.P. FLANGED JOINTS UNLESS OTHERWISE NOTED. FORCE MAIN DOWNSTREAM OF VALVE VAULT SHALL BE DUCTILE IRON PIPE PER SPECS.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL TRADES AND SUBCONTRACTORS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DIMENSIONS AND ELEVATIONS.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRECAST WET WELL AND VAULT TO THE ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR MAY CAST IN PLACE WITH APPROVED SHOP DRAWINGS.
8. PRE-CAST CONCRETE SHALL BE 28 MPA AT 28 DAYS. REINFORCING SHALL MEET ASTM C-478. PROVIDE REINF. PLASTIC STEPS @ 400MM O.C.
9. ALL HARDWARE, ANCHOR BOLTS, AND SUPPORTS SHALL BE 304 SS, UNLESS OTHERWISE NOTED.
10. ALUMINUM SURFACES SHALL BE COATED WITH BITUMINOUS MASTIC WHERE IN CONTACT W/ CONCRETE.
11. PROVIDE PIPE SUPPORTS IN VAULT, AS REQ.
12. HATCH COVERS MUST OPEN A FULL 180 DEGREES FOR ACCESS TO WET WELL AND VALVE VAULT.
13. CONCRETE OPENINGS SHALL BE CORE DRILLED OR CAST. PROVIDE BOTH FLEX, BOOT & GROUTED WATER TIGHT CONNECTIONS AROUND PIPE.
14. ALL ELEC. CABLE SHALL BE THROUGH CONDUIT.
15. CONTRACTOR TO REMOVE RADIO TELEMETRY FROM EXIST. PUMP STATION AND INSTALL ON NEW STATION (SEE SPECIAL PROVISIONS).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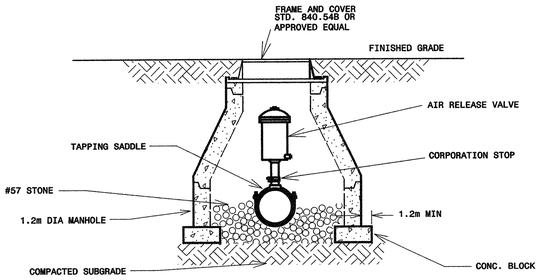
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-967CC | UC-46 |
| SCALE: N.T.S. | UTILITY ENGINEER |
| CONST. REV. | |
| R/W REV. | |

METRIC

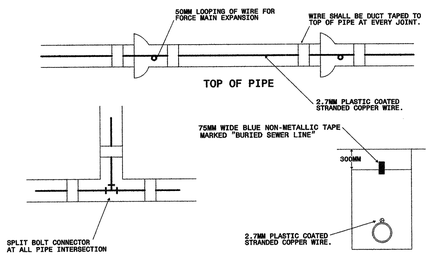
NORTH CAROLINA PROFESSIONAL SEAL 23082 ENGINEER LARRY S. GIBSON 10-05

# UTILITY CONSTRUCTION



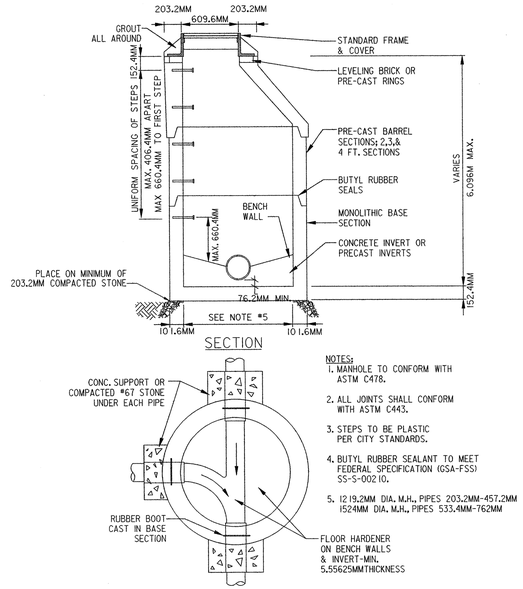

## AIR RELEASE VALVE & MANHOLE

NOT TO SCALE




## COPPER TRACING WIRE DETAIL

NOT TO SCALE

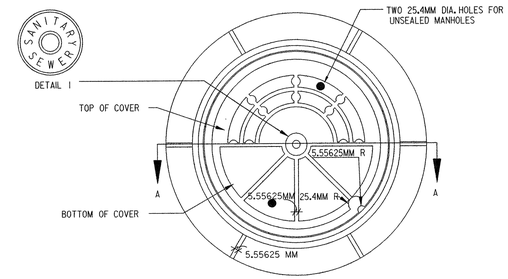



NOTES:

1. MANHOLE TO CONFORM WITH ASTM C478.
2. ALL JOINTS SHALL CONFORM WITH ASTM C443.
3. STEPS TO BE PLASTIC PER CITY STANDARDS.
4. BUTYL RUBBER SEALANT TO MEET FEDERAL SPECIFICATION (GSA-FSS) SS-S-00210.
5. 1219.2MM DIA. M.H., PIPES 203.2MM-457.2MM 1524MM DIA. M.H., PIPES 533.4MM-762MM

## PRECAST MANHOLE DETAIL

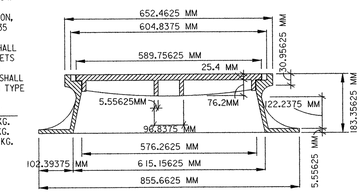
NOT TO SCALE




NOTES:

1. DIMENSIONS MAY VARY SLIGHTLY, BUT MANHOLE RING AND COVER ARE TO BE INTERCHANGEABLE WITH DIMENSIONS SHOWN. (DEWEY BROS. RCR-2001)
2. HEAVY DUTY CAST IRON. ASTM 48-76 CLASS 35
3. SEALED MANHOLES SHALL BE PROVIDED W/GASKETS AND A MINIMUM OF 4 BOLT DOWNS. BOLTS SHALL BE OF THE HEX-HEAD TYPE

| MINIMUM AVERAGE WEIGHT | |
|---|---|
| COVER | 54.4310844 KG. |
| FRAME | 86.1825503 KG. |
| UNIT | 140.6136347 KG. |

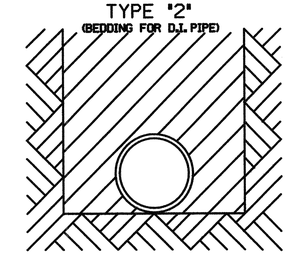



SECTION A-A

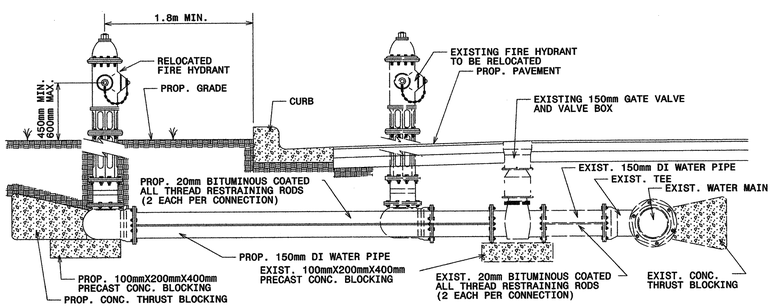
## MANHOLE FRAME & COVER DETAIL

NOT TO SCALE

### TYPE "2"
(BEDDING FOR D.I. PIPE)



PIPE BEDDED IN FLAT-BOTTOM TRENCH. 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.




## FIRE HYDRANT RELOCATION DETAIL

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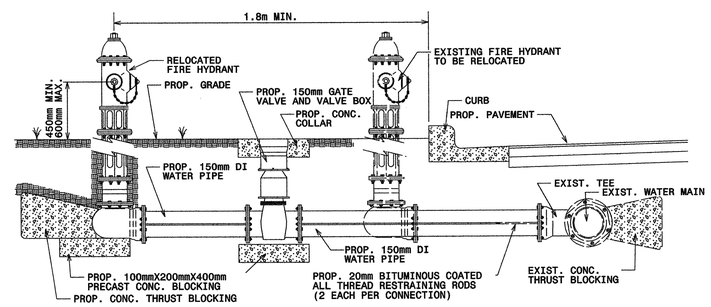
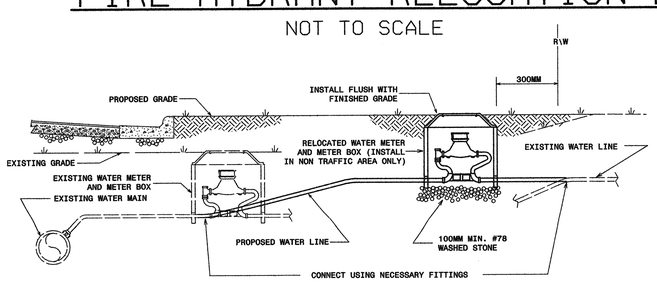



## FIRE HYDRANT RELOCATION DETAIL

NOT TO SCALE

### MAXIMUM TRENCH WIDTH AT TOP OF PIPE

| NOMINAL PIPE SIZE (mm) | TRENCH WIDTH (meter) | NOMINAL PIPE SIZE (mm) | TRENCH WIDTH (mm) |
|---|---|---|---|
| 102 | 0.72 | 508 | 1.12 |
| 152 | 0.76 | 610 | 1.22 |
| 203 | 0.81 | 762 | 1.37 |
| 254 | 0.86 | 914 | 1.57 |
| 305 | 0.91 | 1067 | 1.68 |
| 356 | 0.97 | 1219 | 1.83 |
| 406 | 1.02 | 1400 | 1.98 |
| 457 | 1.07 | | |

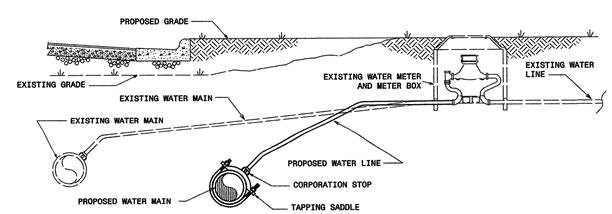



NOTES:

1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
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 MINIMUN OF 900MM COVER BELOW FINISHED GRADE.
4. THE OWNER RESERVES THE RIGHT TO ADD OR DELETE WATER SERVICE TAPS AND TO CHANGE LOCATIONS FROM THOSE SHOWN.

NOT TO SCALE

## WATER METER RELOCATION DETAIL

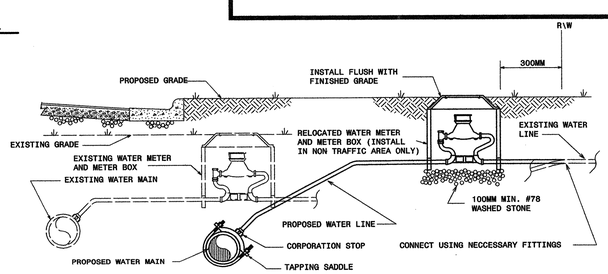



NOTES:

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

NOT TO SCALE




NOTES:

1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
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4. THE OWNER RESERVES THE RIGHT TO ADD OR DELETE WATER SERVICE TAPS AND TO CHANGE LOCATIONS FROM THOSE SHOWN.

## WATER METER RELOCATION DETAIL

NOT TO SCALE


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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-1 |

# UTILITIES BY OTHERS

METRIC

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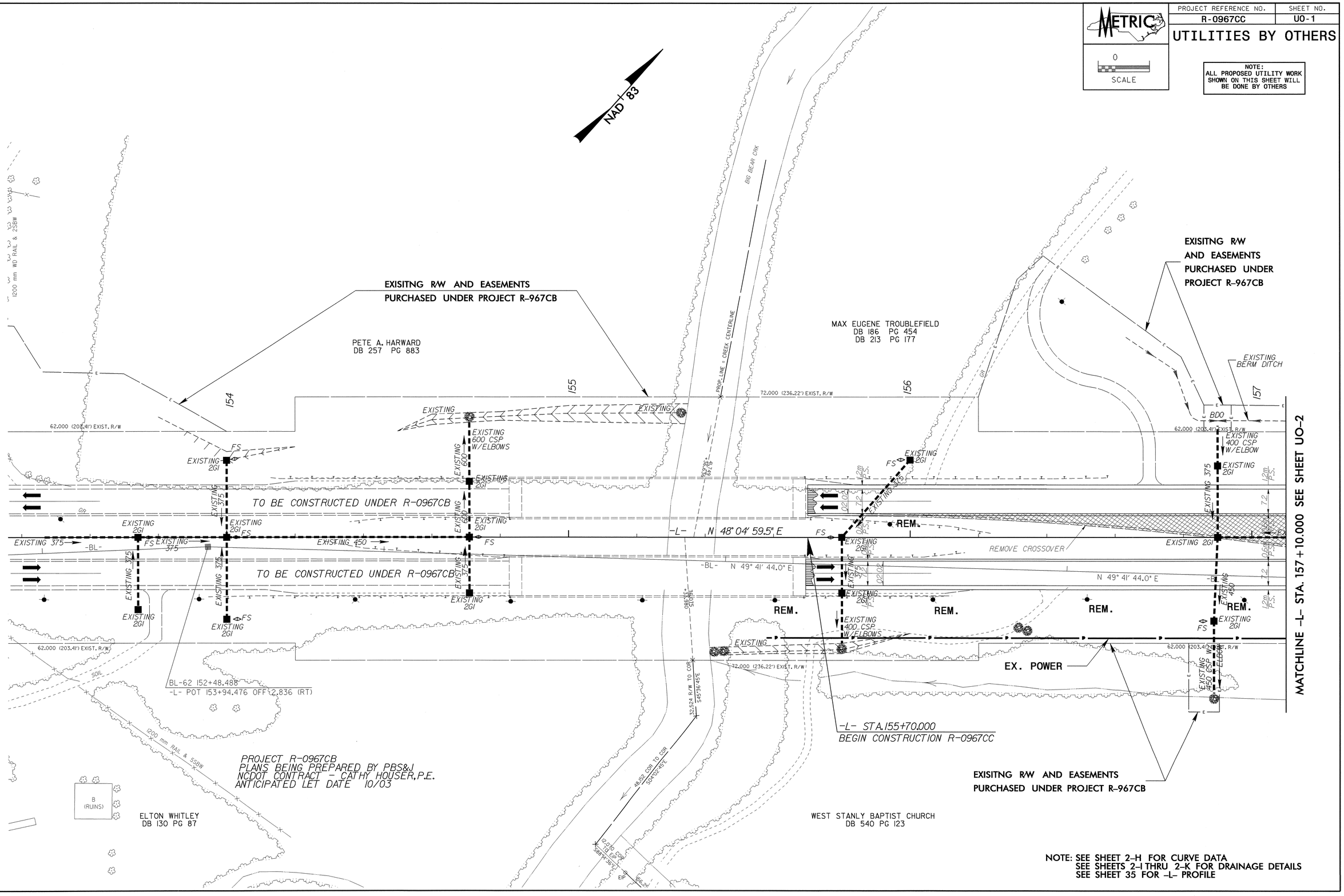
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 35 FOR -L- PROFILE

21-JAN-2005 07:16
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| PROJECT REFERENCE NO. | SHEET NO. |
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| R-0967CC | U0-2 |

# UTILITIES BY OTHERS

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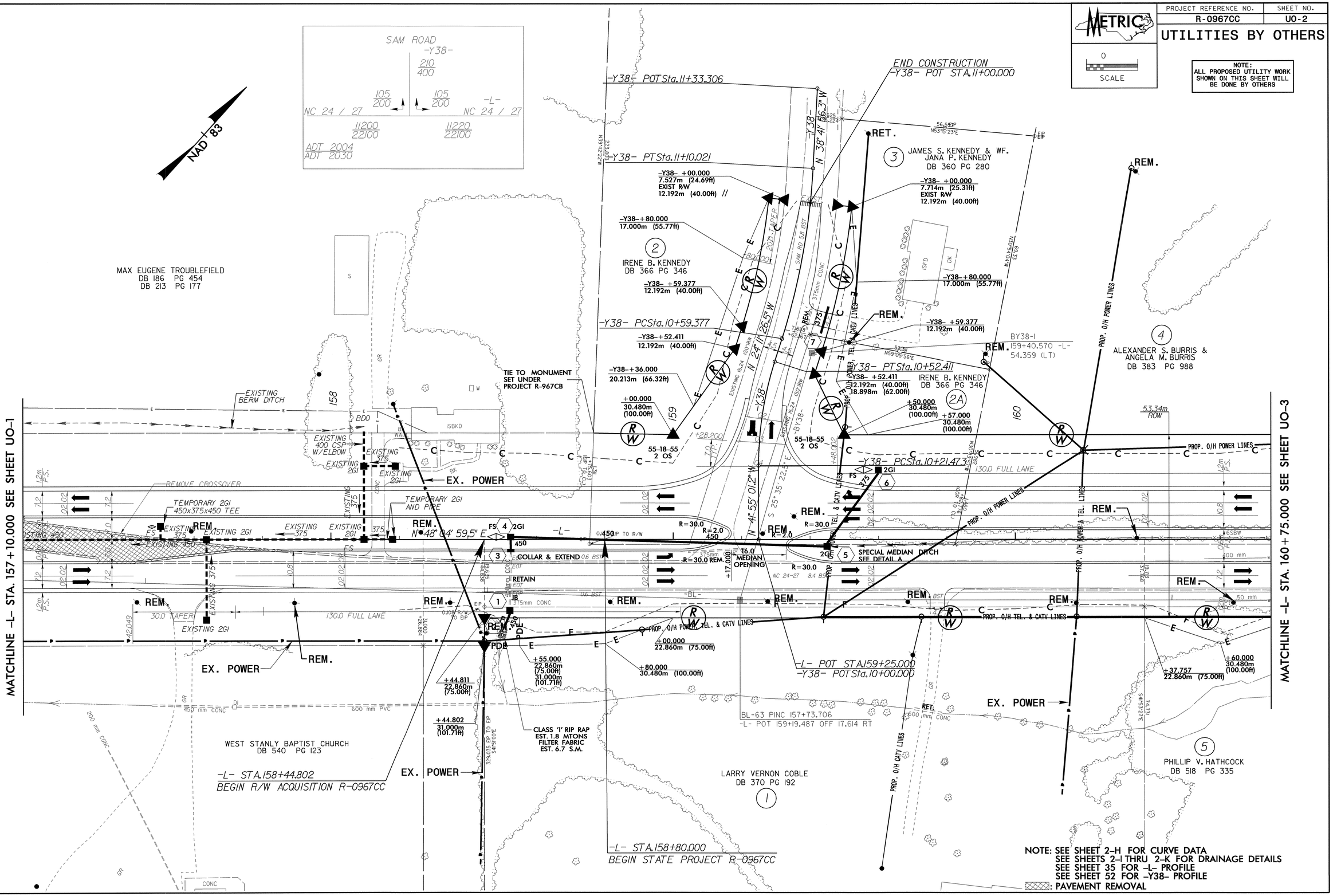


NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 35 FOR -L- PROFILE
SEE SHEET 52 FOR -Y38- PROFILE
: PAVEMENT REMOVAL

| PROJECT REFERENCE NO. | SHEET NO. |
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| R-0967CC | U0-3 |

# UTILITIES BY OTHERS

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**NOTE:**
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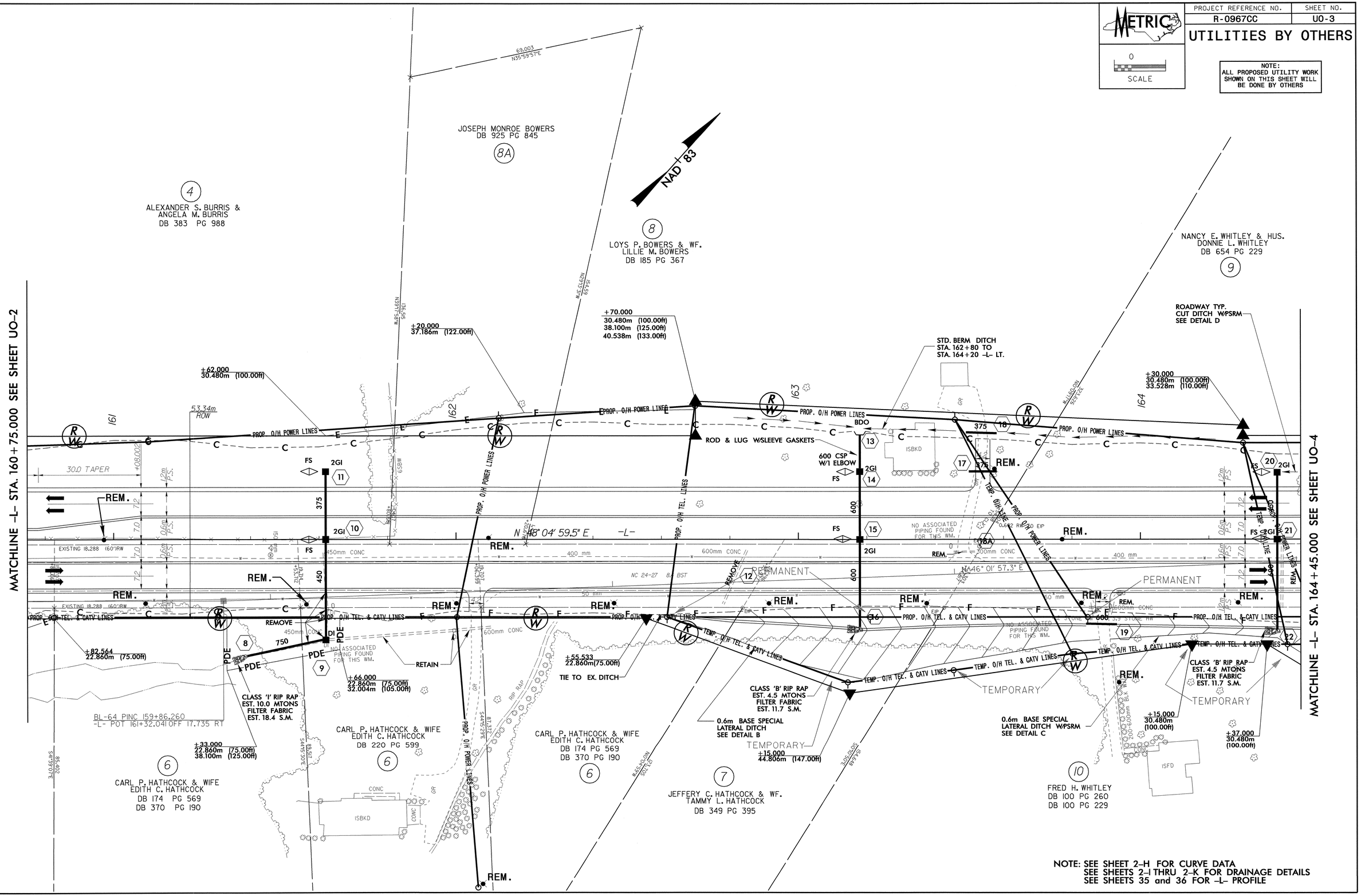


**NOTE: SEE SHEET 2-H FOR CURVE DATA**
**SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS**
**SEE SHEETS 35 and 36 FOR -L- PROFILE**

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21-JAN-2005 07:47
Mr. PSU2286

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-4 |

# UTILITIES BY OTHERS

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NOTE:
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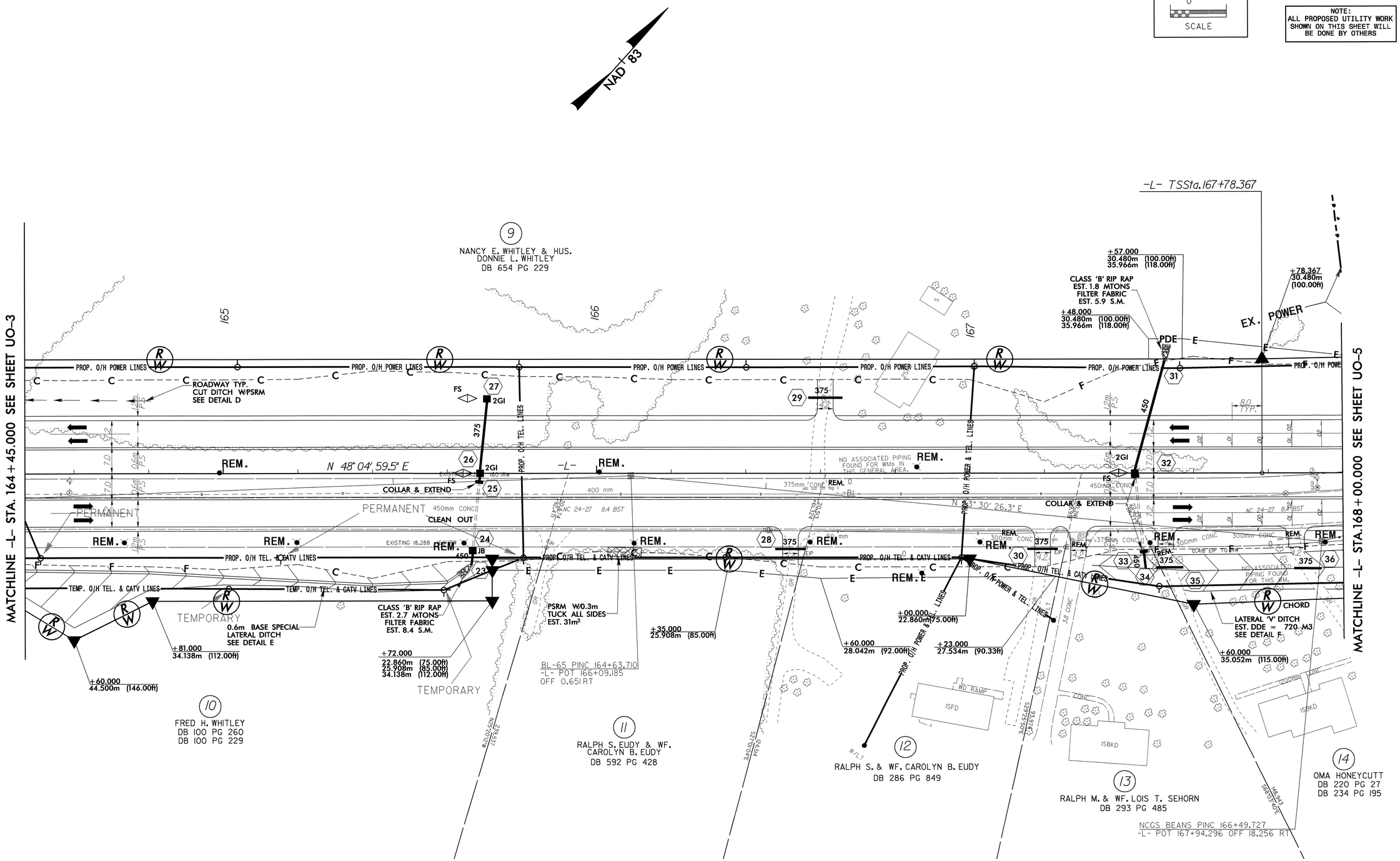


NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 36 FOR -L- PROFILE

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-5 |

# UTILITIES BY OTHERS

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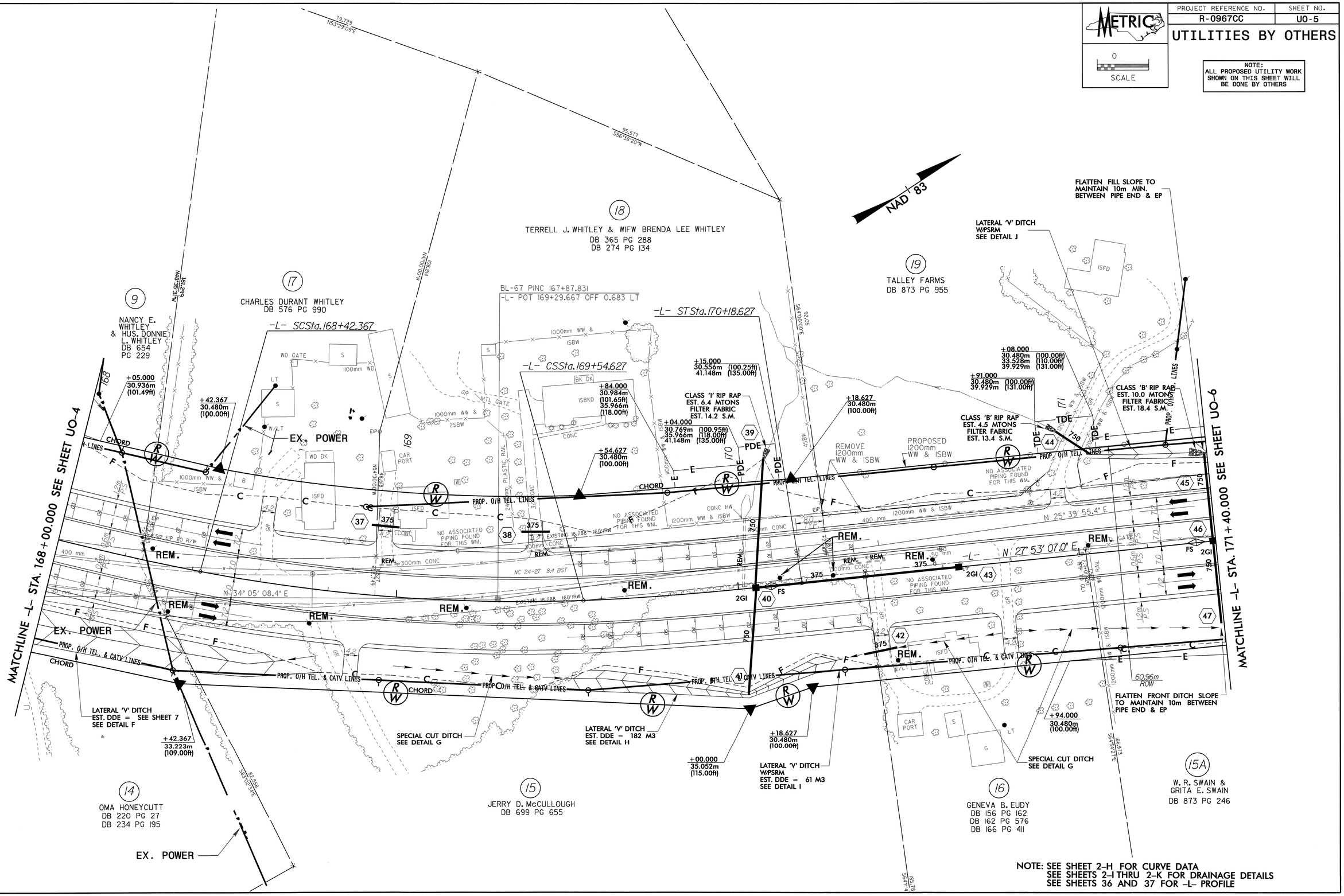
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEETS 36 AND 37 FOR -L- PROFILE

21-JAN-2005 07:37
R:\Utilities\Rdy\R0967cc_ut_sht08_U005.dgn
$$$$USER PS\U2324

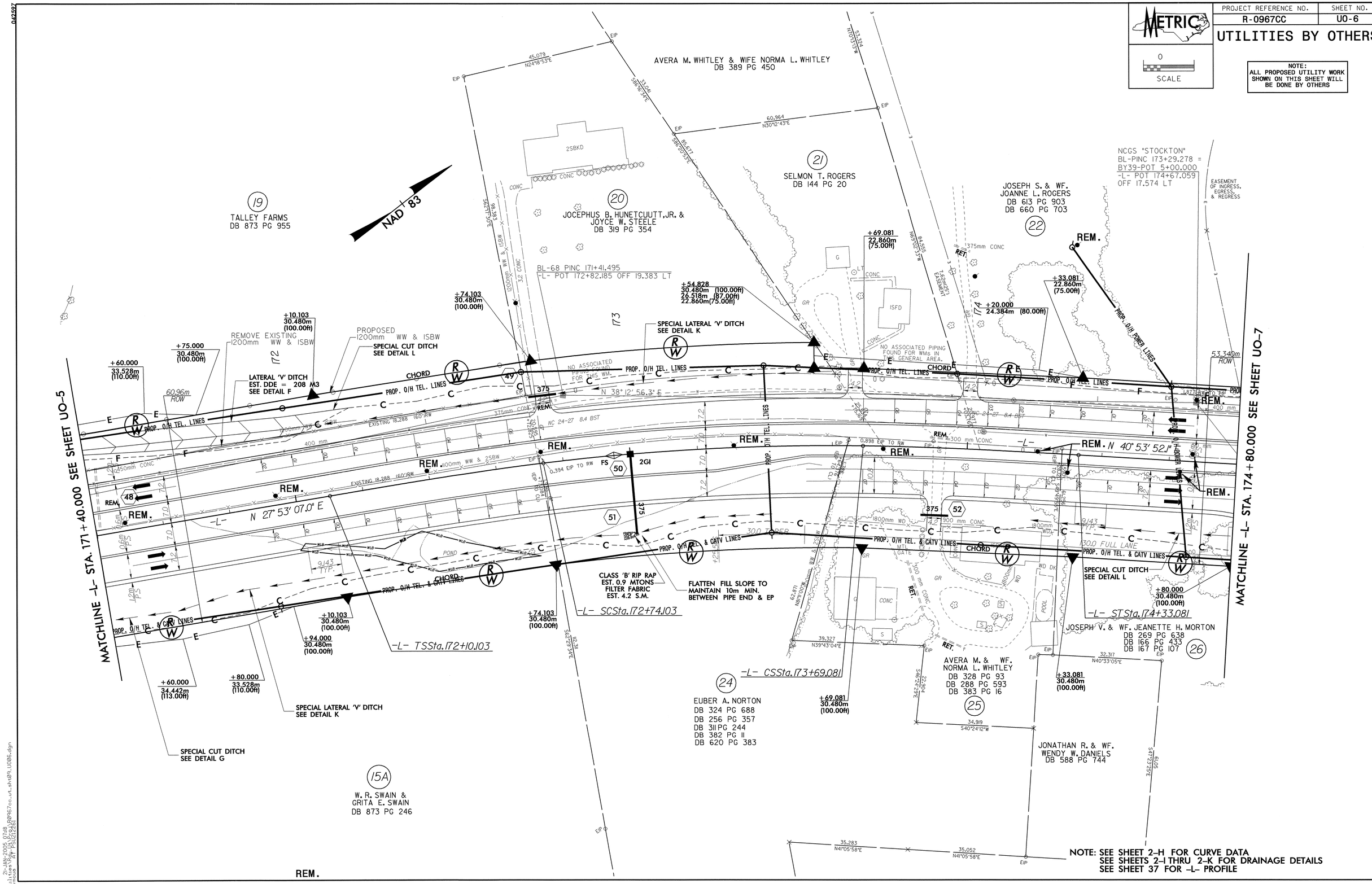
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-6 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 37 FOR -L- PROFILE

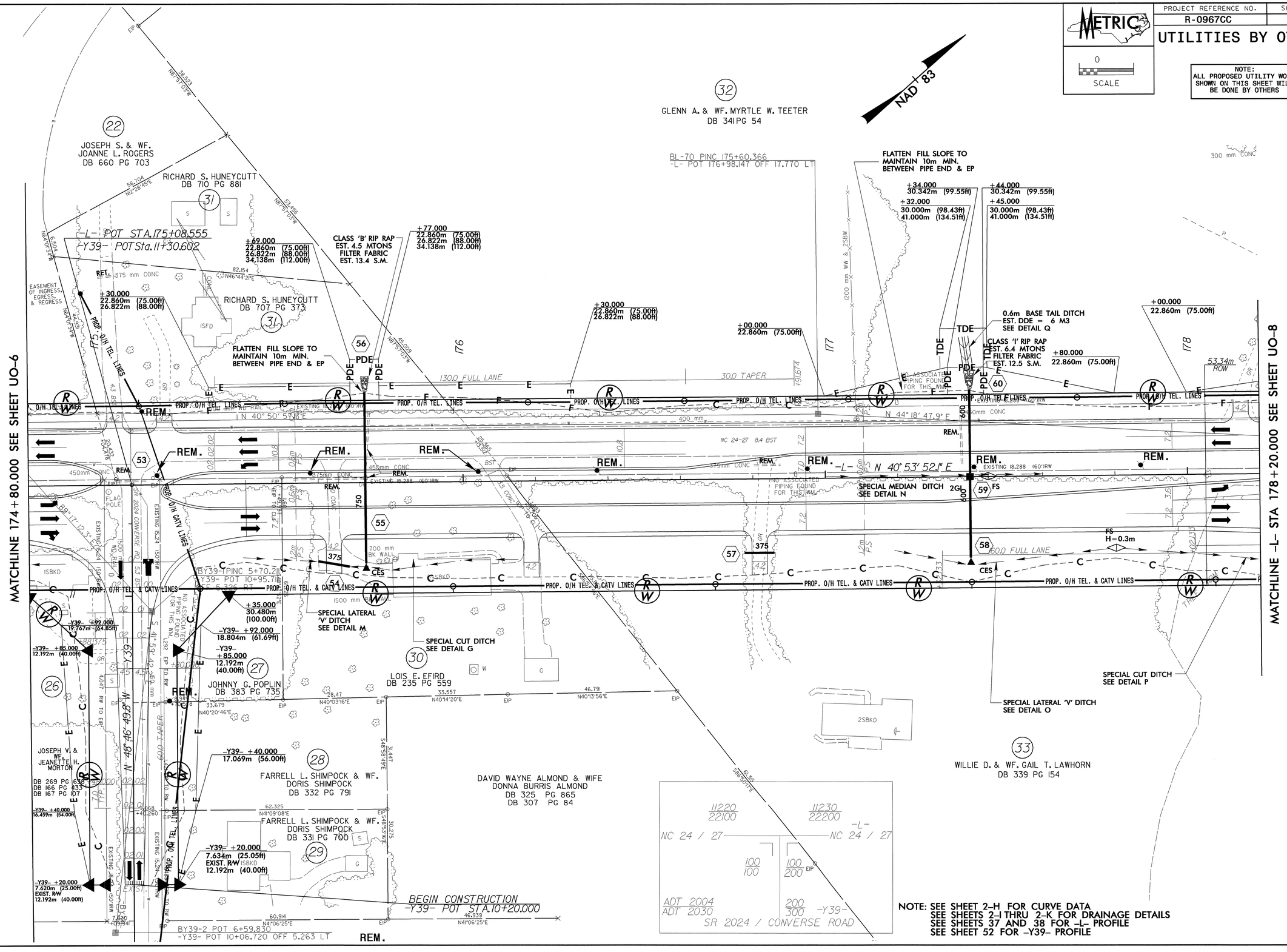
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-7 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEETS 37 AND 38 FOR -L- PROFILE
SEE SHEET 52 FOR -Y39- PROFILE

042597

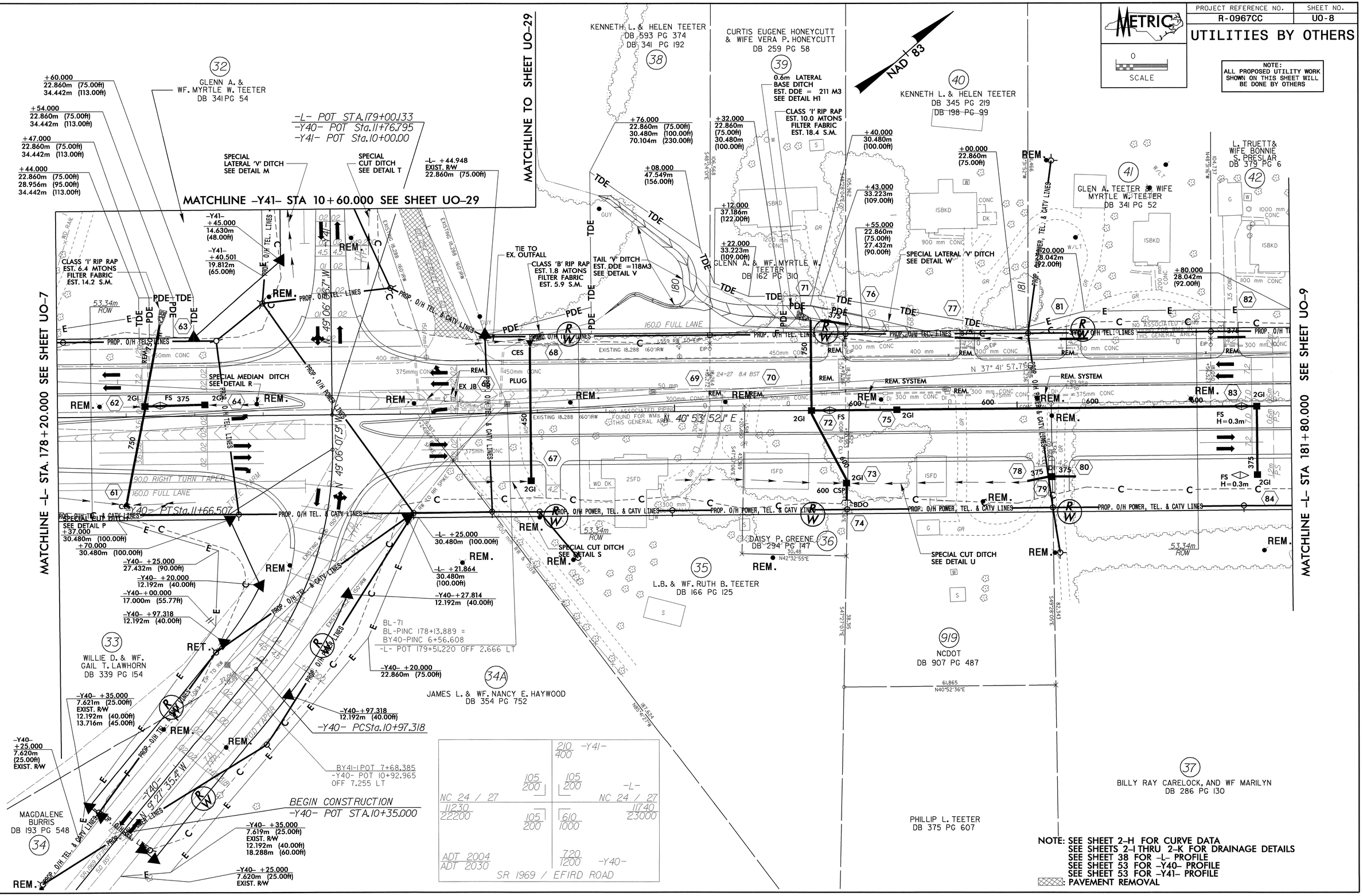
21-JAN-2005 07:21
R:\Utilities\Ray\PS\U2124\R0967cc_ut_sht10_U007.dgn

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-8 |

# UTILITIES BY OTHERS

METRIC
0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 53 FOR -Y40- PROFILE
SEE SHEET 53 FOR -Y41- PROFILE
: PAVEMENT REMOVAL

042597

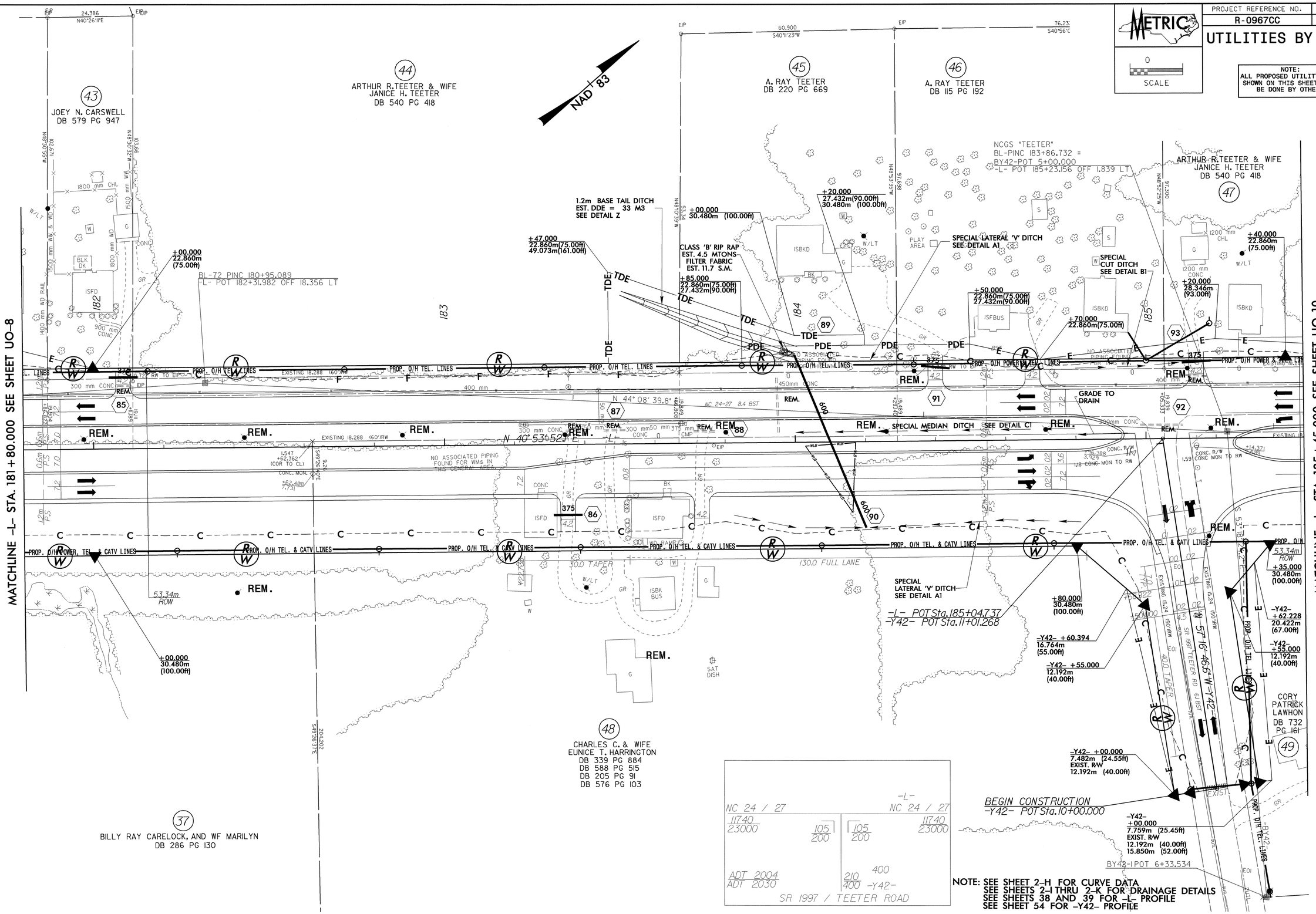
21-JAN-2005 09:16
R:\Utilities\Proj\R0967cc_ut_sht11_U008.dgn

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-9 |

# UTILITIES BY OTHERS

METRIC
0
SCALE

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




**NOTE: SEE SHEET 2-H FOR CURVE DATA**
**SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS**
**SEE SHEETS 38 AND 39 FOR -L- PROFILE**
**SEE SHEET 54 FOR -Y42- PROFILE**

R:\Utilities\R0967cc_ut_sht12_U009.dgn
21-JAN-2005 07:21
Plot Scale: 1:20.000 Plot Date: 1/21/2005

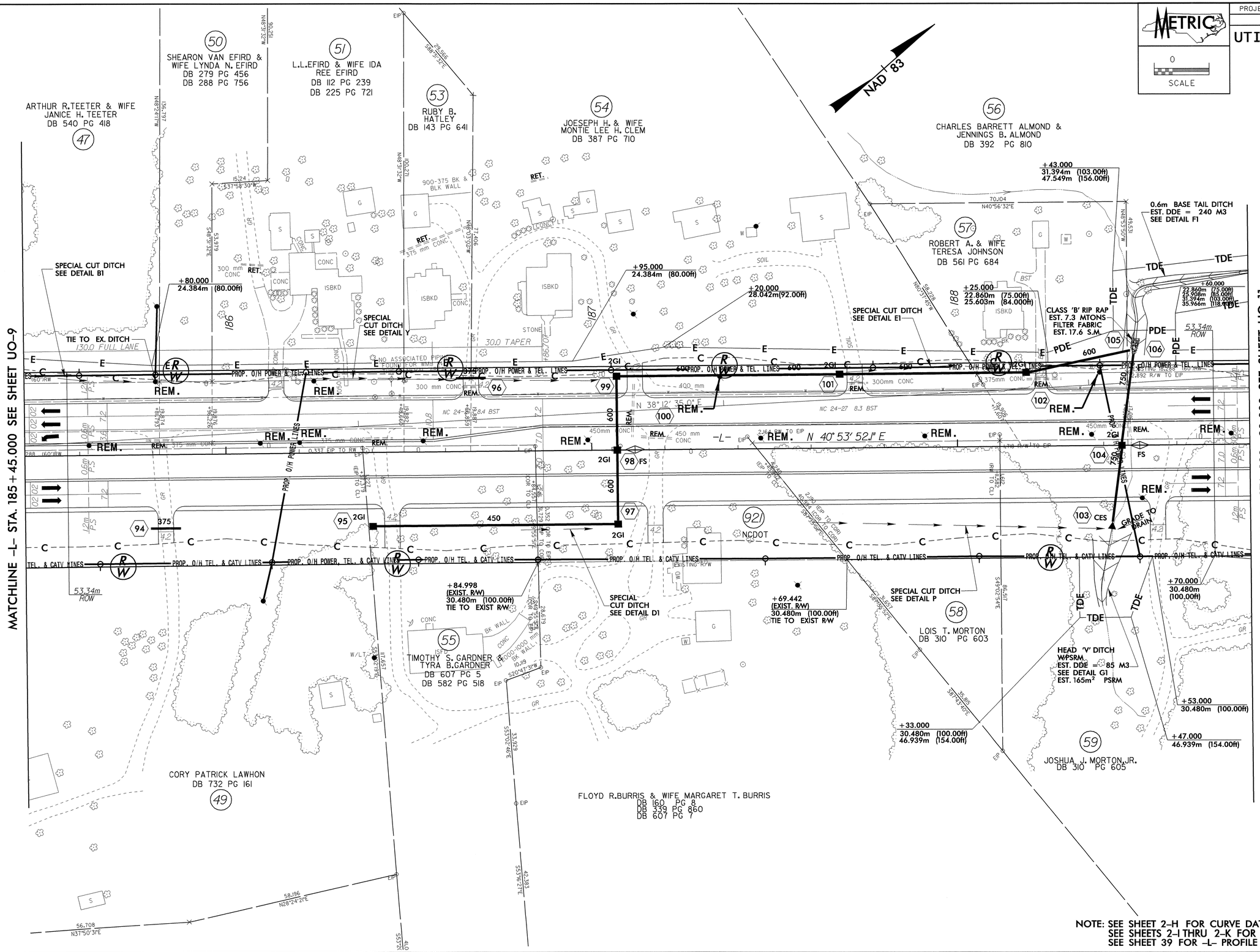
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-10 |

# UTILITIES BY OTHERS

METRIC

0 SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 39 FOR -L- PROFILE

21-JAN-2005 07:22
R:\Utilities\Rdy_Utl_Proj\R0967cc_ut_sht13_U010.dgn
vmouo AI PSU21226

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-11 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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

NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEETS 39 AND 40 FOR -L- PROFILE

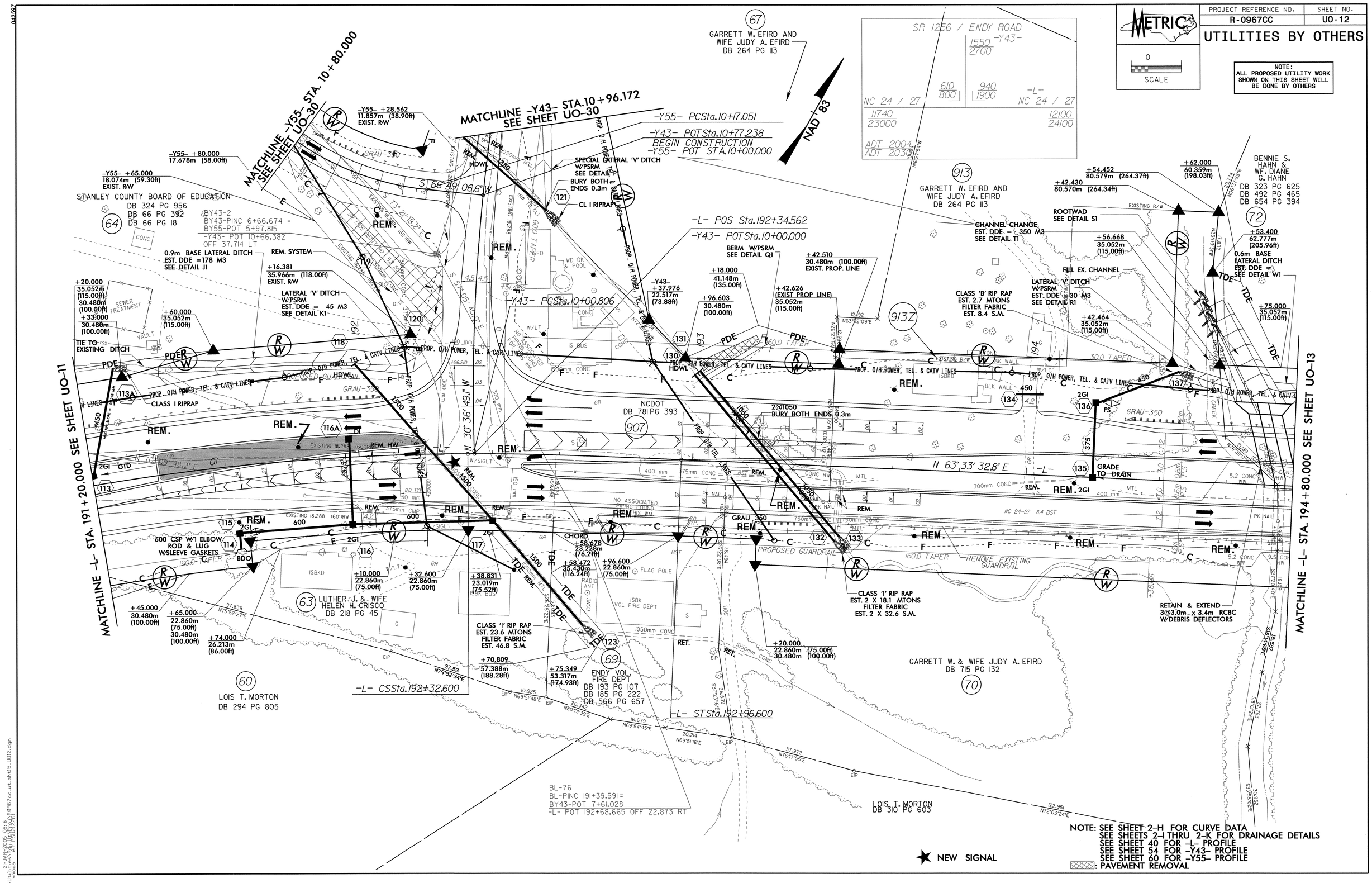
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-12 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 40 FOR -L- PROFILE
SEE SHEET 54 FOR -Y43- PROFILE
SEE SHEET 60 FOR -Y55- PROFILE
: PAVEMENT REMOVAL

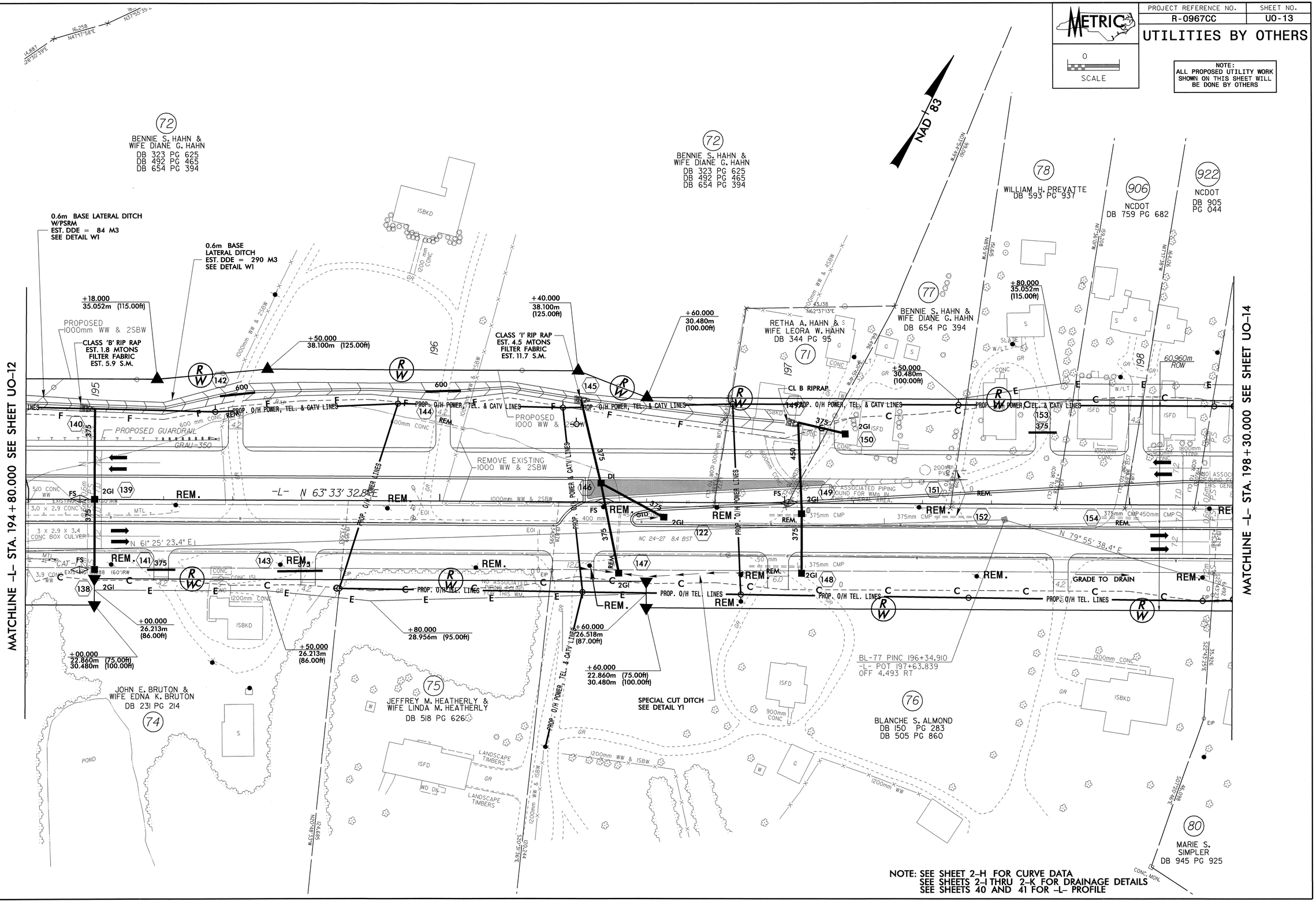
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-13 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEETS 40 AND 41 FOR -L- PROFILE

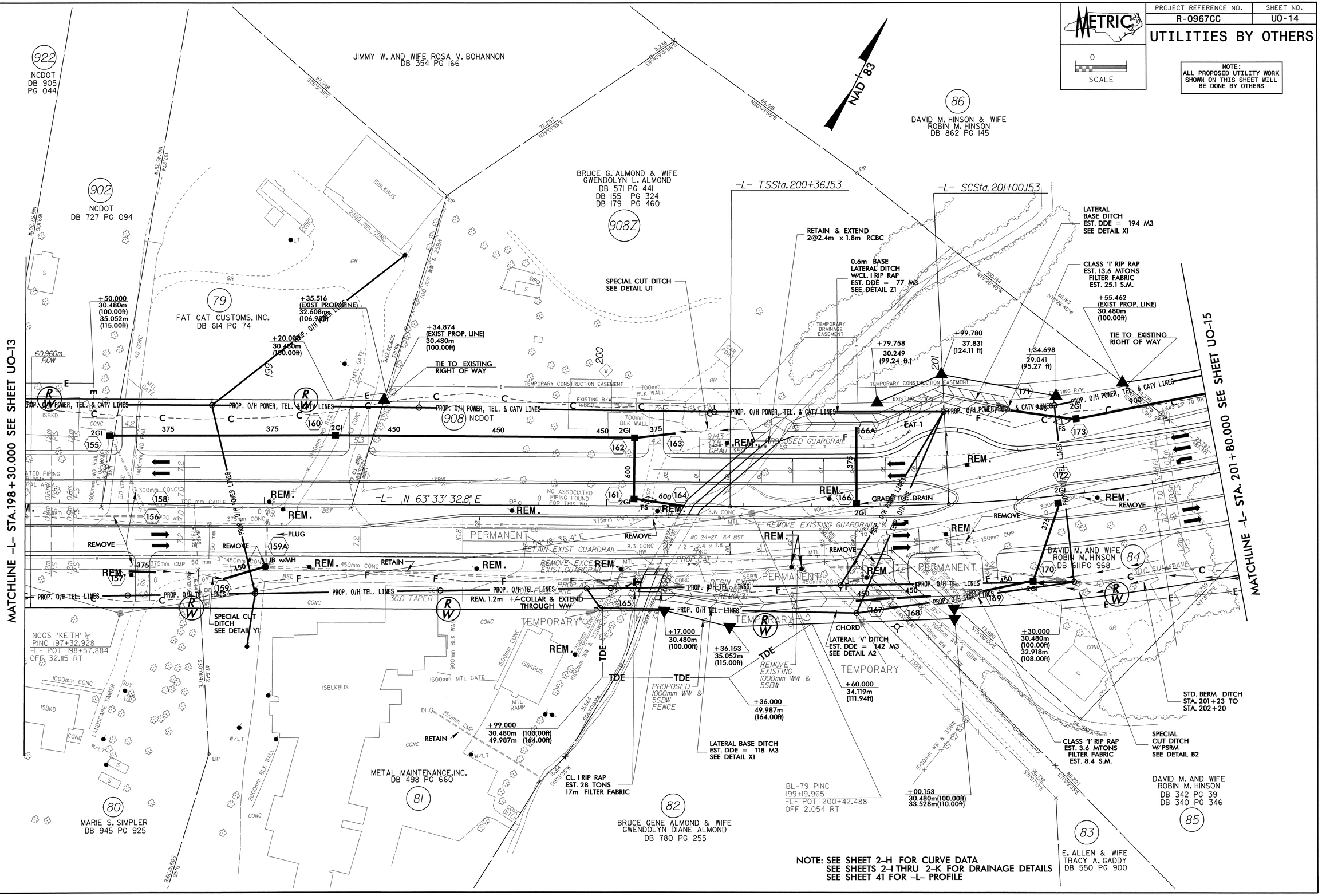
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-14 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 41 FOR -L- PROFILE

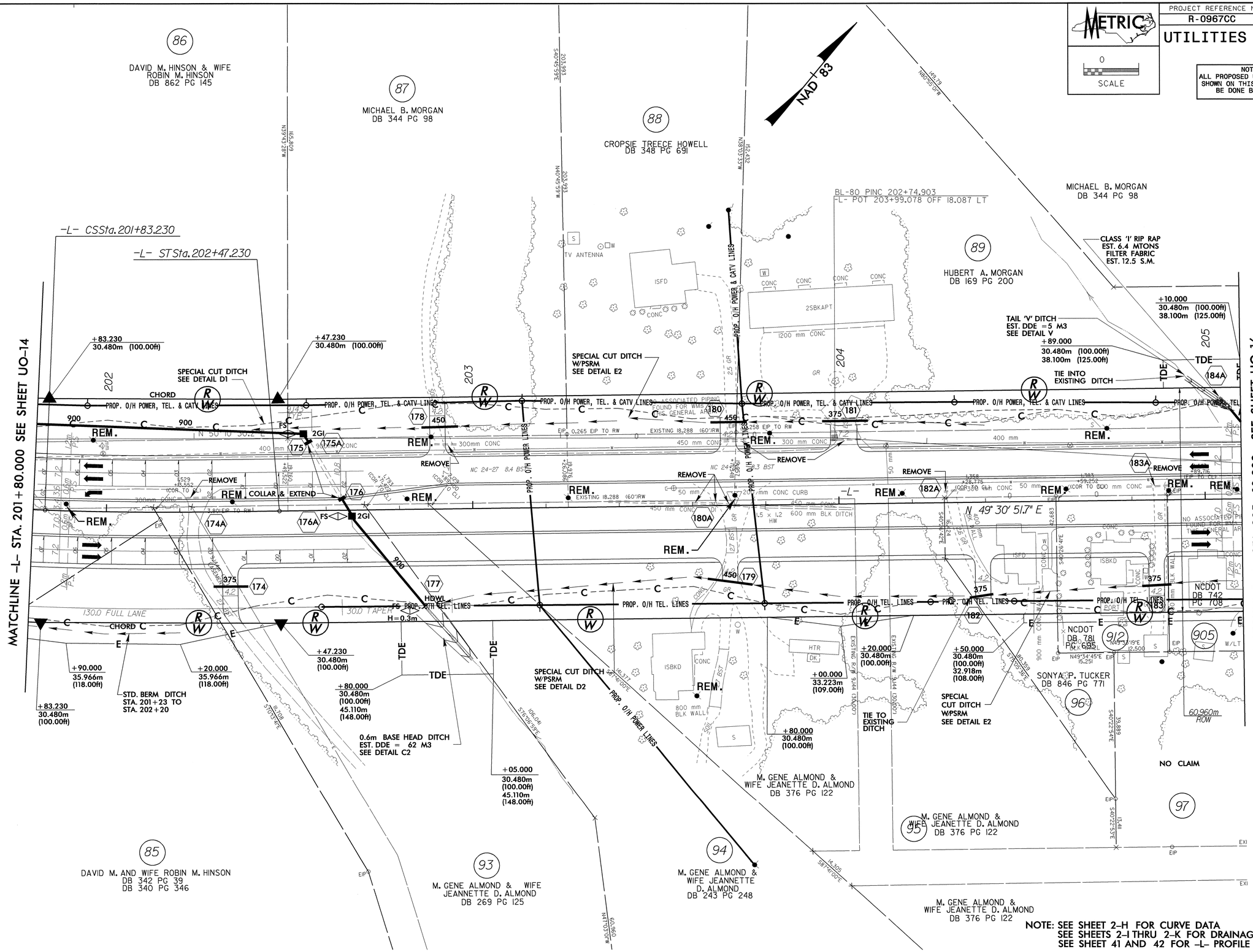
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-15 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 41 AND 42 FOR -L- PROFILE

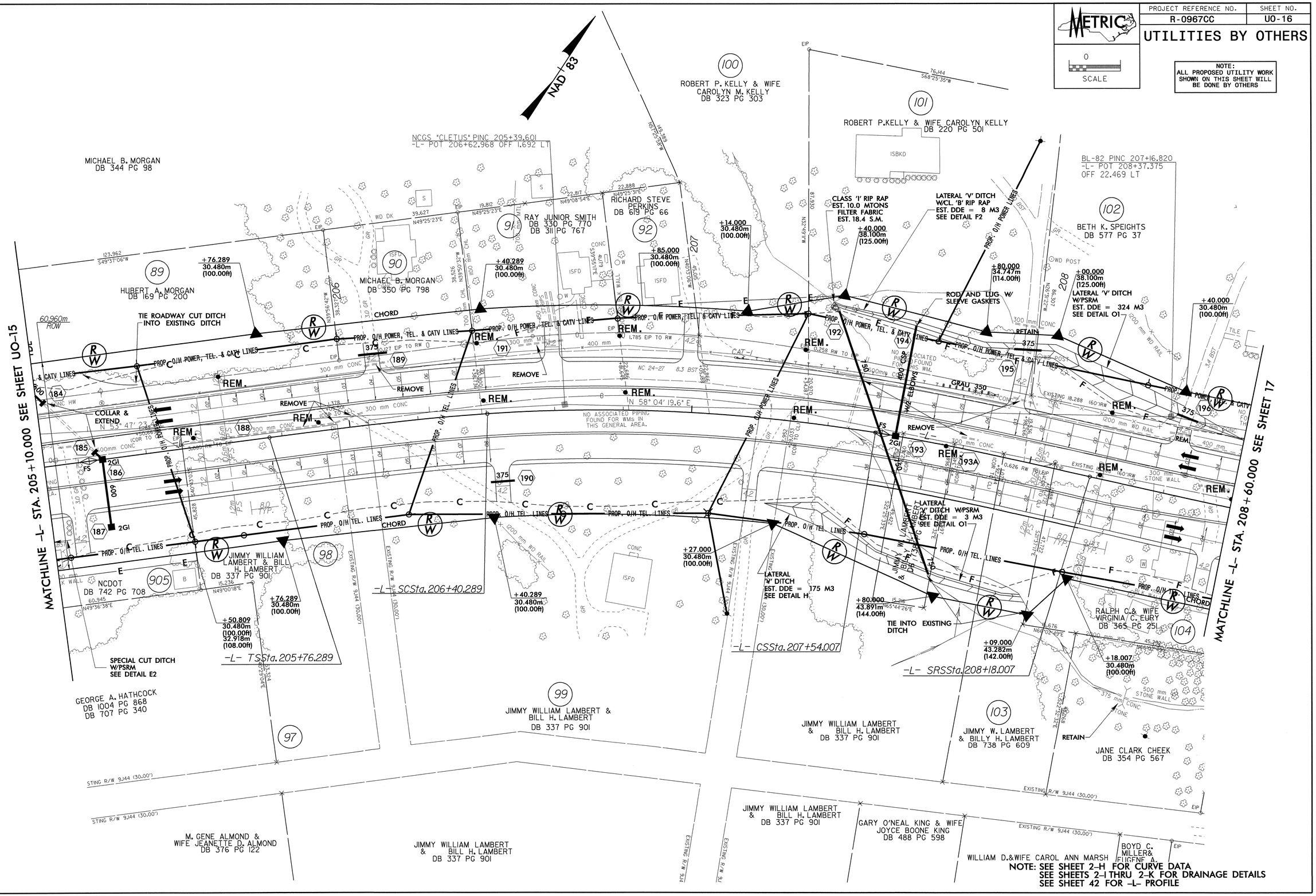
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-16 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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



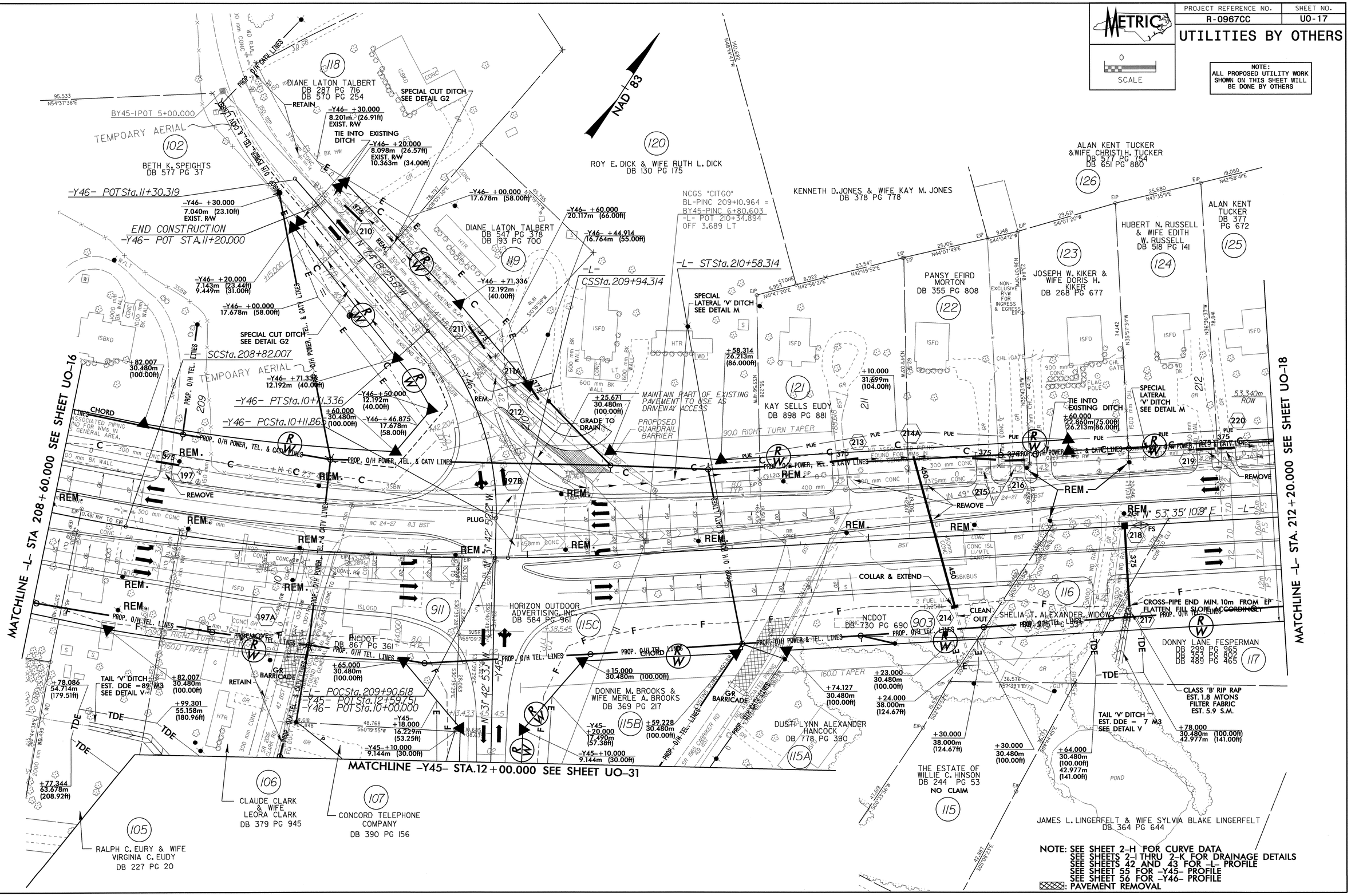
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-17 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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



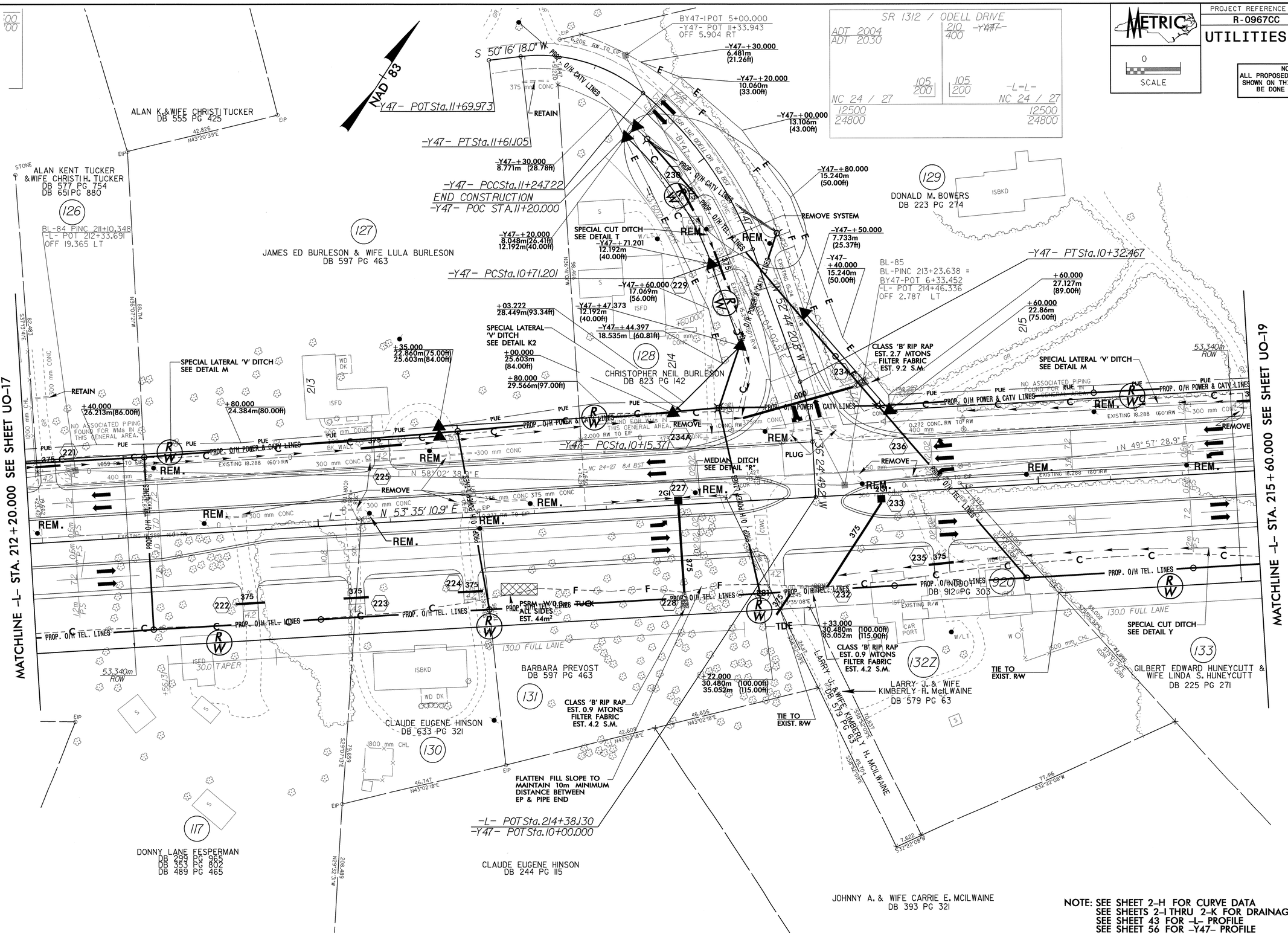
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-18 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 56 FOR -Y47- PROFILE

R:\Utilities\R0967cc_ut_sht21_U018.dgn
21-JAN-2005 07:31
rdp-hsu1236

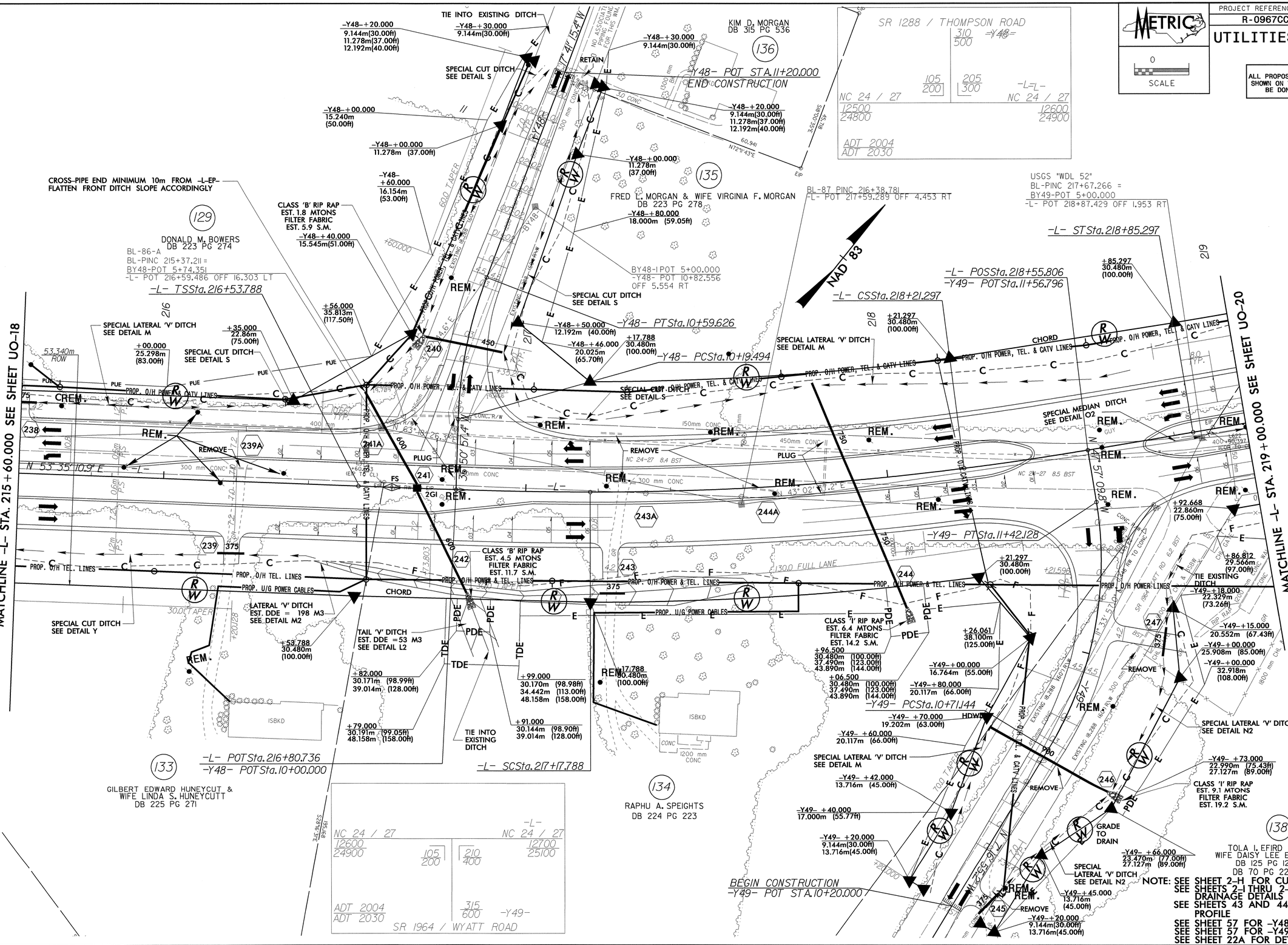
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-19 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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



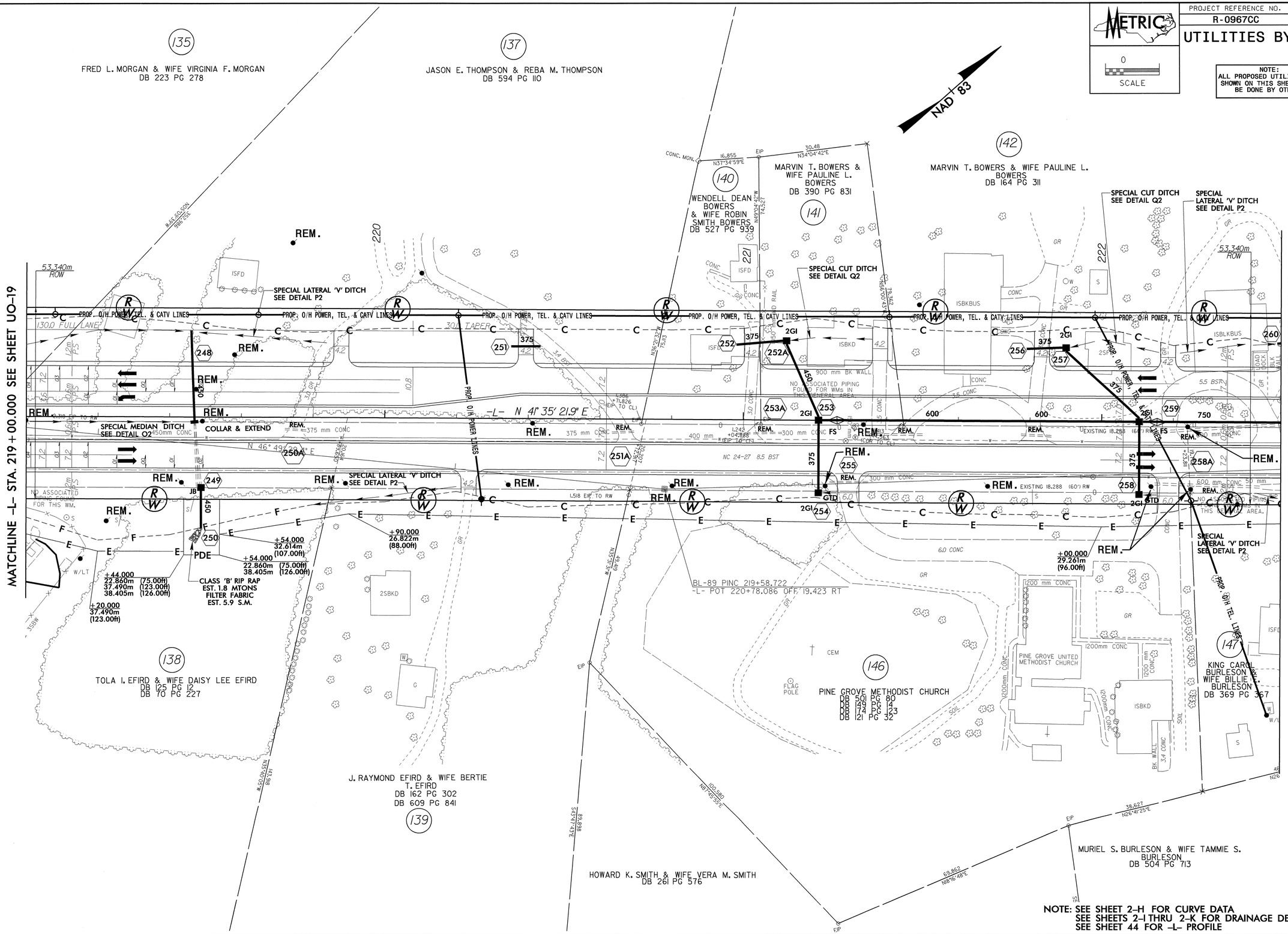
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-20 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 44 FOR -L- PROFILE

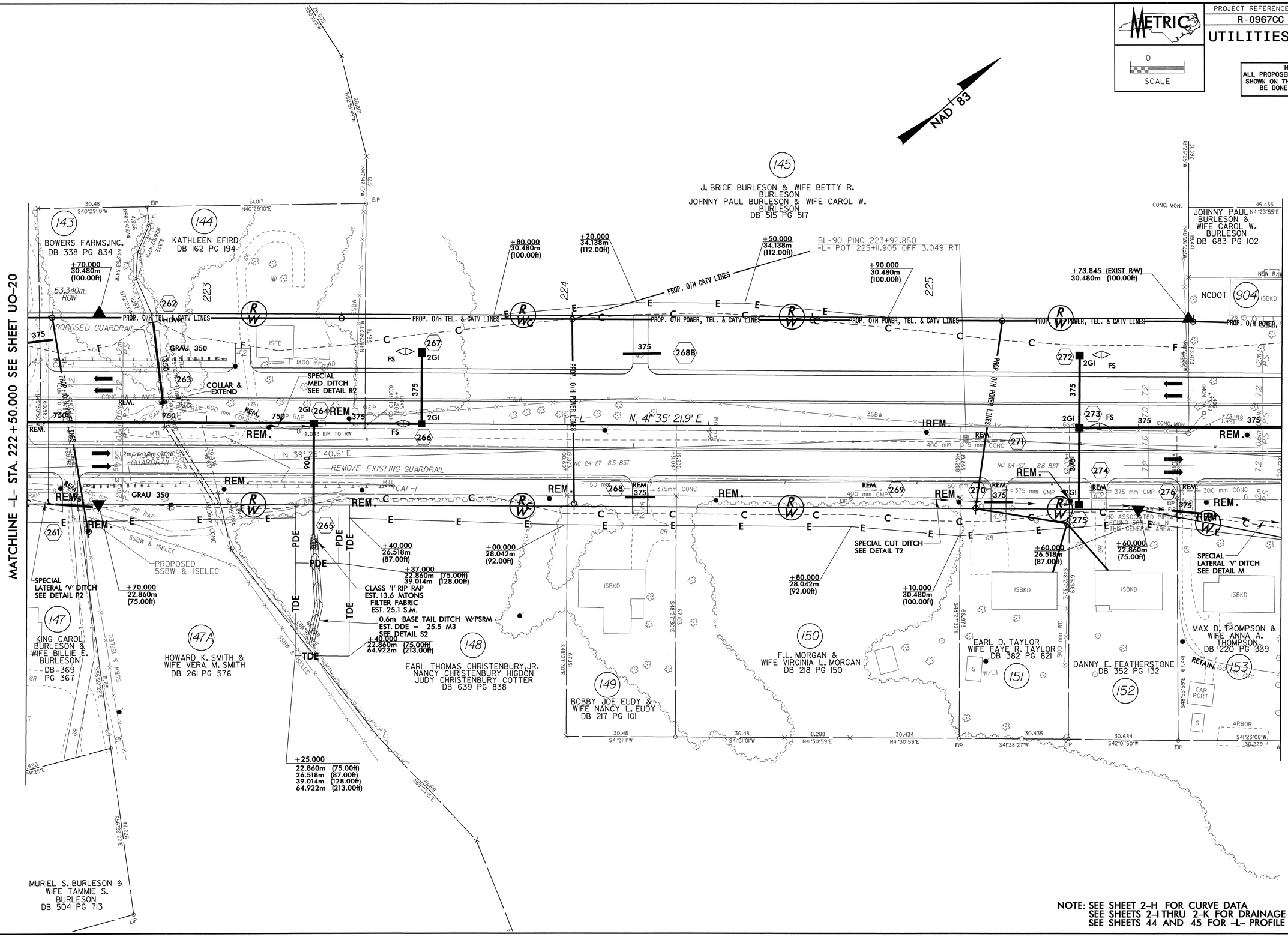
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-21 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




**NOTE: SEE SHEET 2-H FOR CURVE DATA**
**SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS**
**SEE SHEETS 44 AND 45 FOR -L- PROFILE**

R:\Utilities\R0967cc_ut_sht24_U021.dgn
21-JAN-2005 09:21

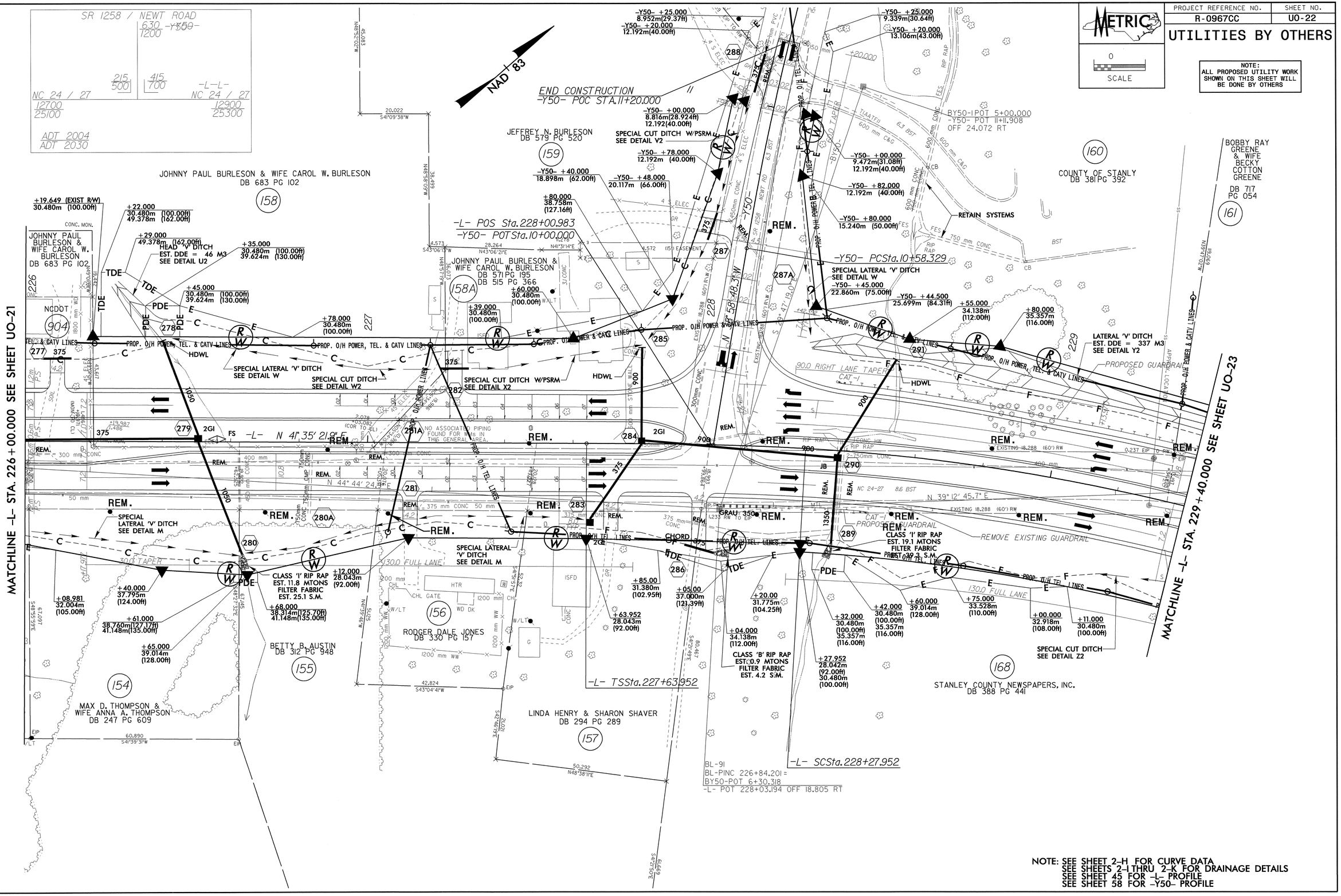
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-22 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 45 FOR -L- PROFILE
SEE SHEET 58 FOR -Y50- PROFILE

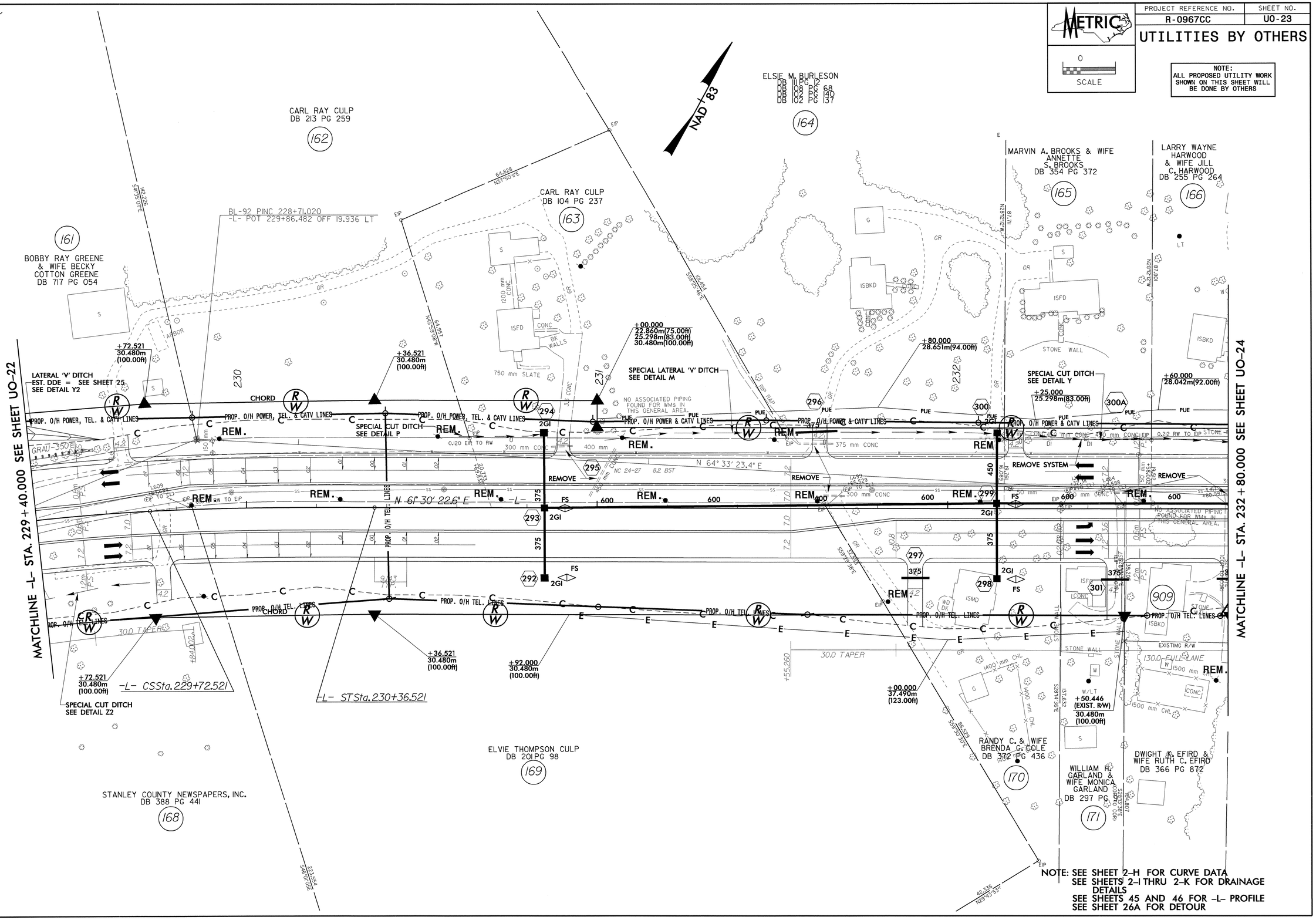
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | UO-23 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




**NOTE: SEE SHEET 2-H FOR CURVE DATA**
**SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS**
**SEE SHEETS 45 AND 46 FOR -L- PROFILE**
**SEE SHEET 26A FOR DETOUR**

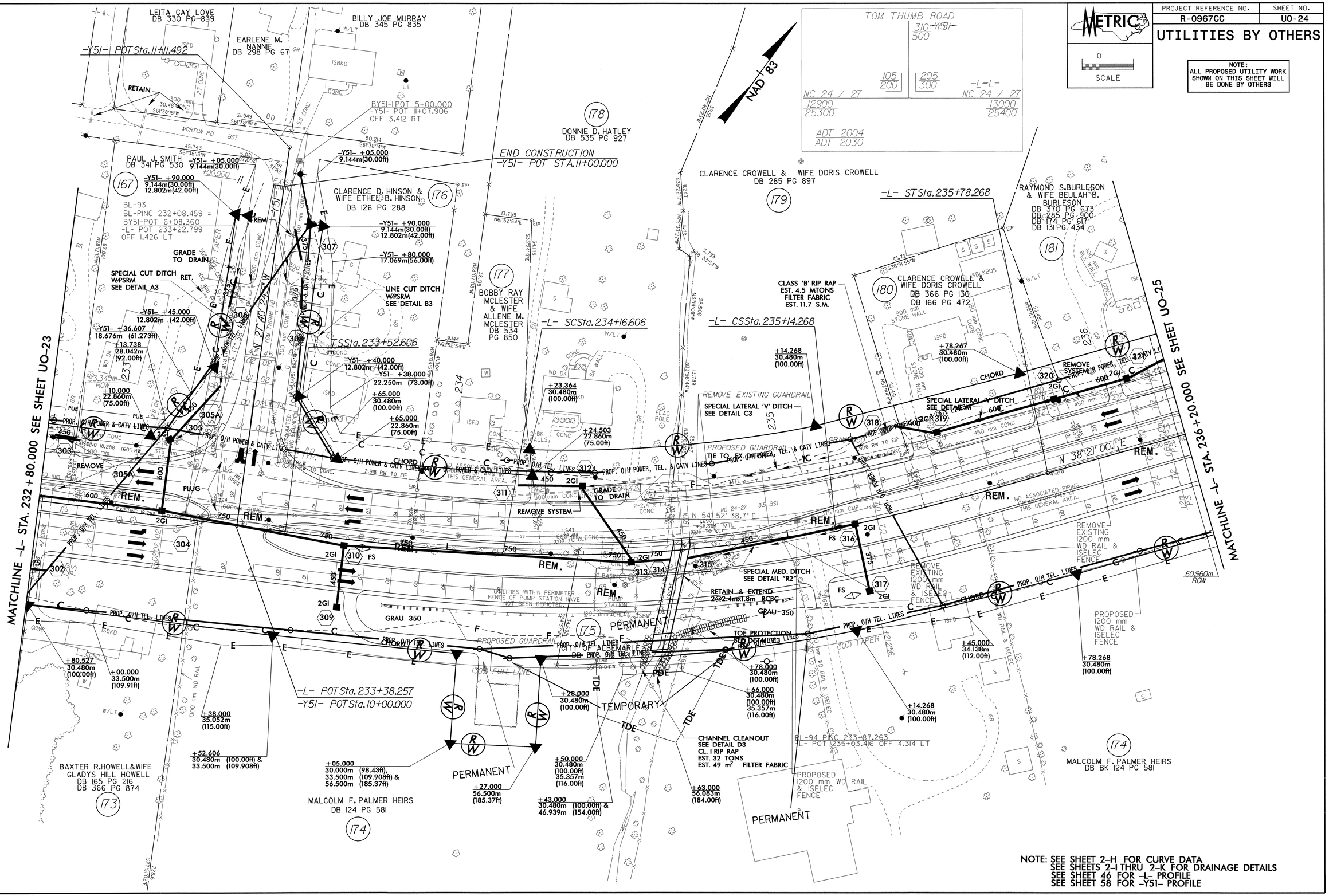
21-JAN-2005 07:34
R:\Utilities\Proj\R0967cc_ut_sht26_U023.dgn

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-24 |

# UTILITIES BY OTHERS

METRIC
0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 46 FOR -L- PROFILE
SEE SHEET 58 FOR -Y51- PROFILE

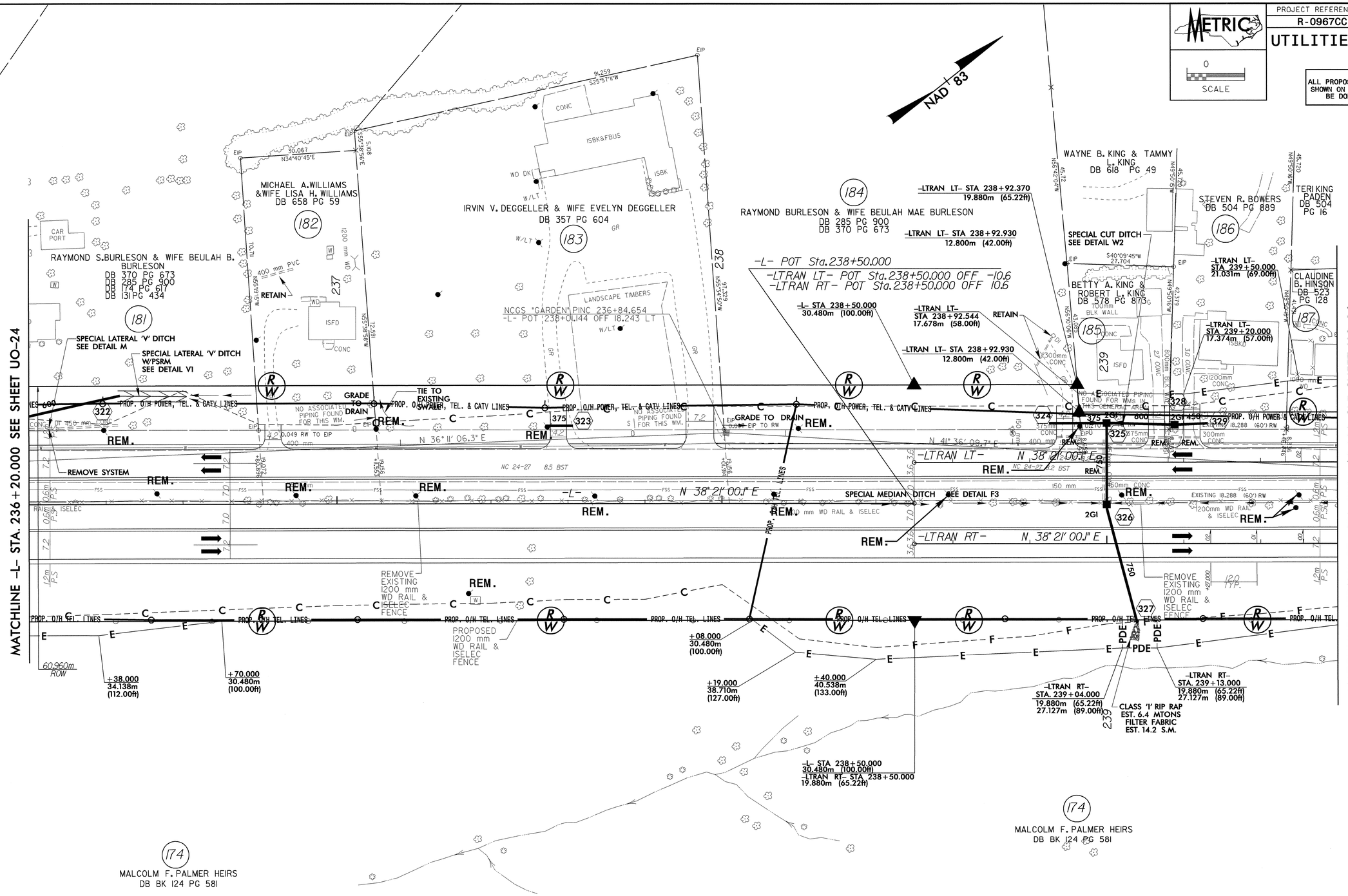
21-JAN-2005 07:35
R:\Utilities\Proj\R0967cc_ut_sh27_U024.dgn
$$$$USER

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-25 |

# UTILITIES BY OTHERS

METRIC
0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEETS 46 AND 47 FOR -L- PROFILE
SEE SHEET 48 FOR -LTRANLT- PROFILE
SEE SHEET 50 FOR -LTRANRT- PROFILE

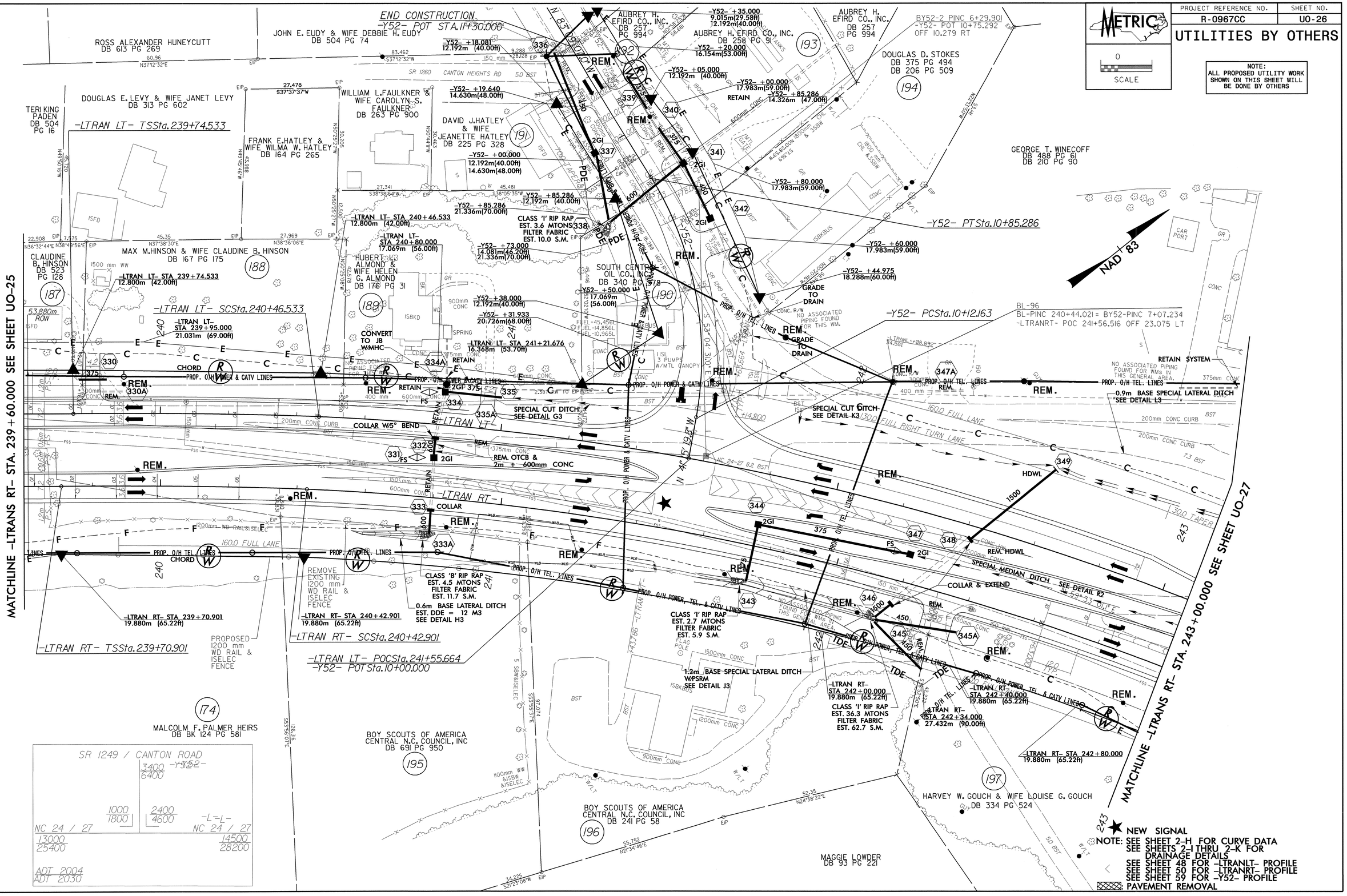
R:\Utilities\Proj\0967cc_ut_sh28_U025.dgn
21-JAN-2005 07:36
ap psu2226

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-26 |

# UTILITIES BY OTHERS

METRIC
0
SCALE

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



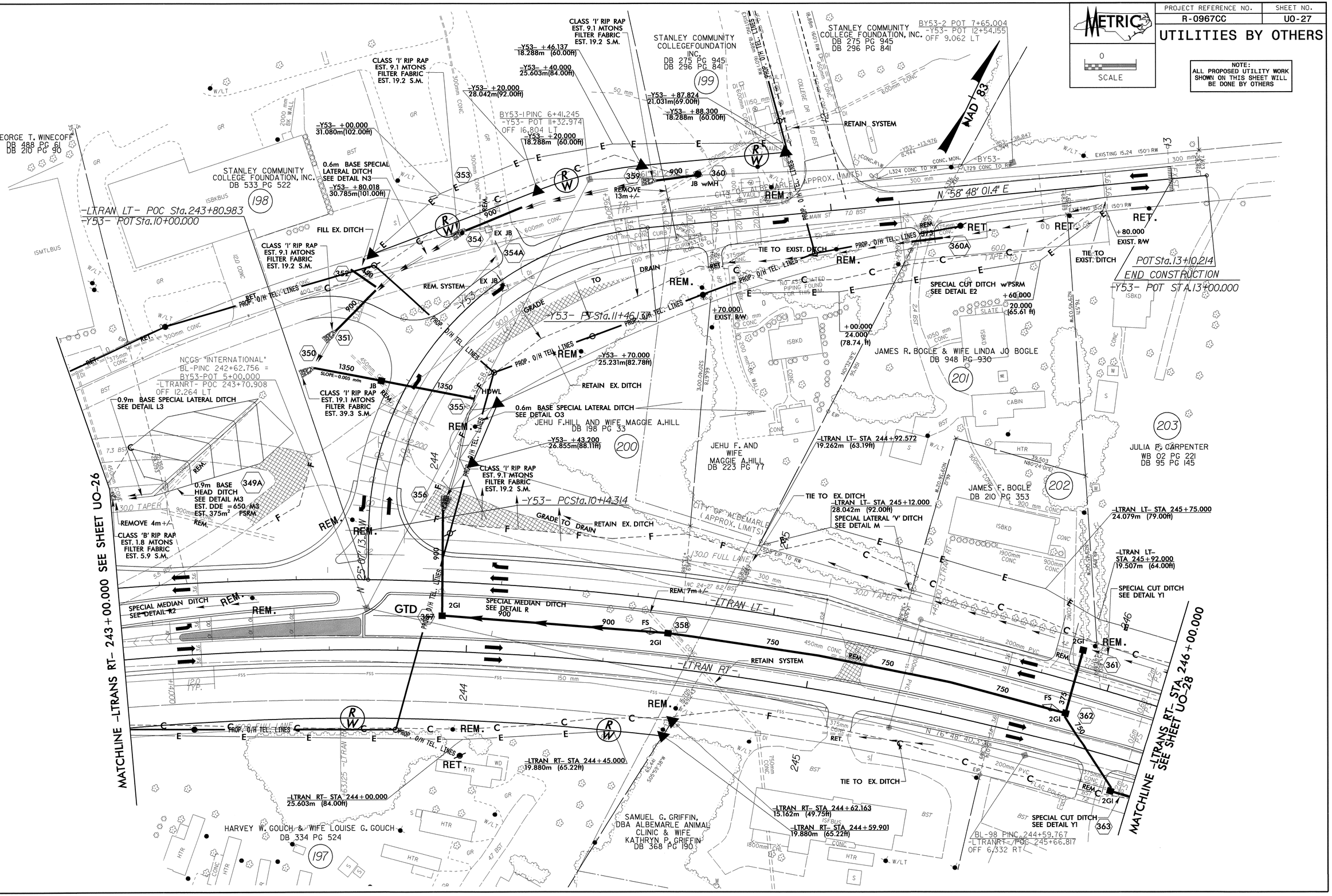
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-27 |

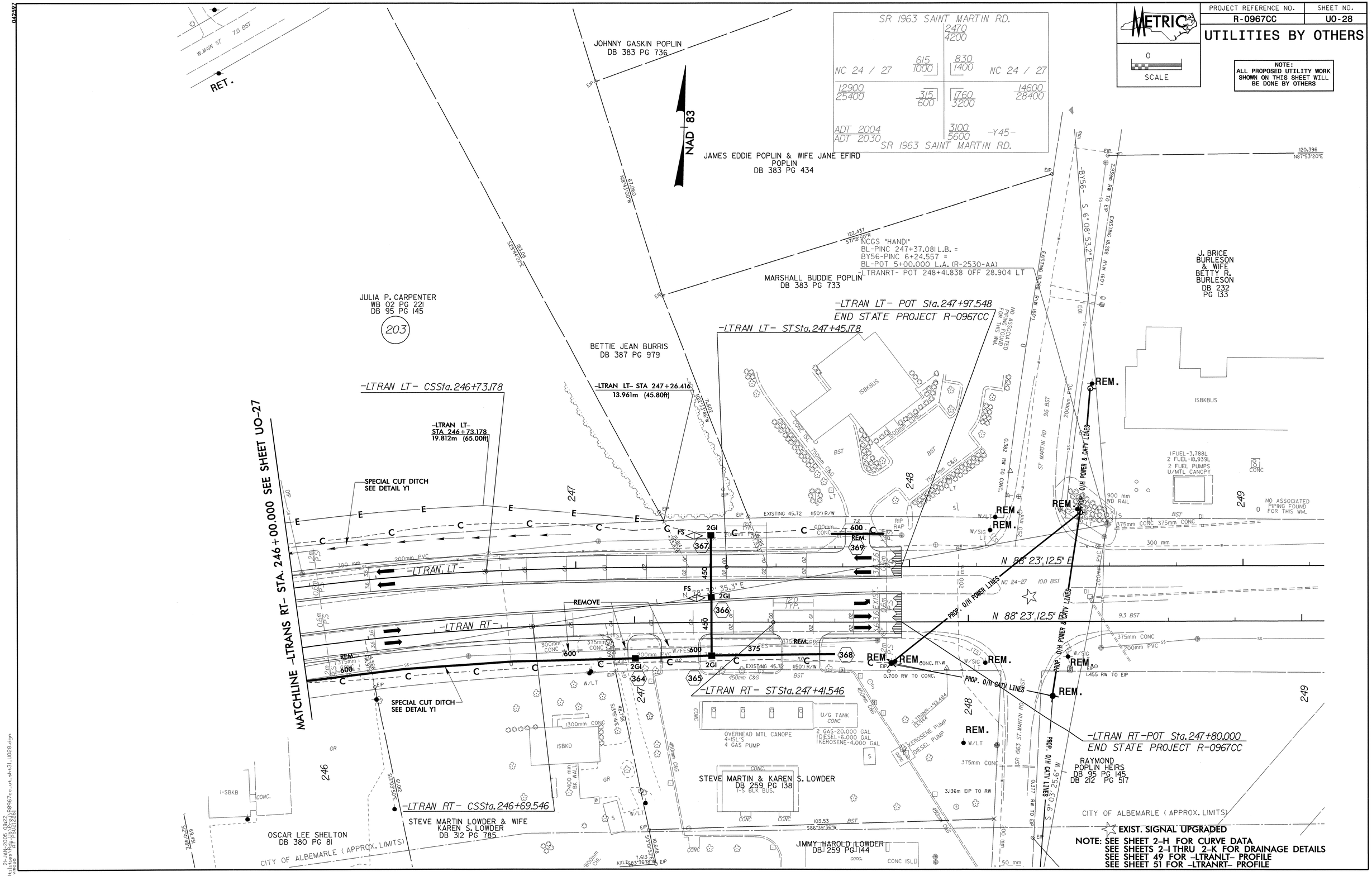
# UTILITIES BY OTHERS

METRIC

0 SCALE

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





METRIC
PROJECT REFERENCE NO.
R-0967CC
SHEET NO.
U0-28
UTILITIES BY OTHERS
SCALE
NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS
SR 1963 SAINT MARTIN RD.
NC 24 / 27
ADT 2004
ADT 2030
-Y45-
NAD 83
JOHNNY GASKIN POPLIN
DB 383 PG 736
JAMES EDDIE POPLIN & WIFE JANE EFIRD POPLIN
DB 383 PG 434
MARSHALL BUDDIE POPLIN
DB 383 PG 733
JULIA P. CARPENTER
WB 02 PG 221
DB 95 PG 145
203
BETTIE JEAN BURRIS
DB 387 PG 979
J. BRICE BURLESON & WIFE BETTY R. BURLESON
DB 232 PG 133
-LTRAN LT- POT Sta.247+97.548
END STATE PROJECT R-0967CC
-LTRAN LT- STSta.247+45.178
-LTRAN LT- CSSta.246+73.178
-LTRAN LT- STA 247+26.416
13.961m (45.80ft)
-LTRAN LT- STA 246+73.178
19.812m (65.00ft)
MATCHLINE -LTRANS RT- STA. 246+00.000 SEE SHEET UO-27
SPECIAL CUT DITCH SEE DETAIL Y1
-LTRAN LT-
-LTRAN RT-
REMOVE
-LTRAN RT- STSta.247+41.546
-LTRAN RT- CSSta.246+69.546
-LTRAN RT-POT Sta.247+80.000
END STATE PROJECT R-0967CC
STEVE MARTIN & KAREN S. LOWDER
DB 259 PG 138
STEVE MARTIN LOWDER & WIFE KAREN S. LOWDER
DB 312 PG 785
OSCAR LEE SHELTON
DB 380 PG 81
JIMMY HAROLD LOWDER
DB 259 PG 144
RAYMOND POPLIN HEIRS
DB 95 PG 145
DB 212 PG 517
PROP. O/H POWER LINES
PROP. O/H CATV LINES
NO ASSOCIATED PIPING FOUND FOR THIS WM.
CITY OF ALBEMARLE (APPROX. LIMITS)
EXIST. SIGNAL UPGRADED
NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 49 FOR -LTRANLT- PROFILE
SEE SHEET 51 FOR -LTRANRT- PROFILE

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-29 |

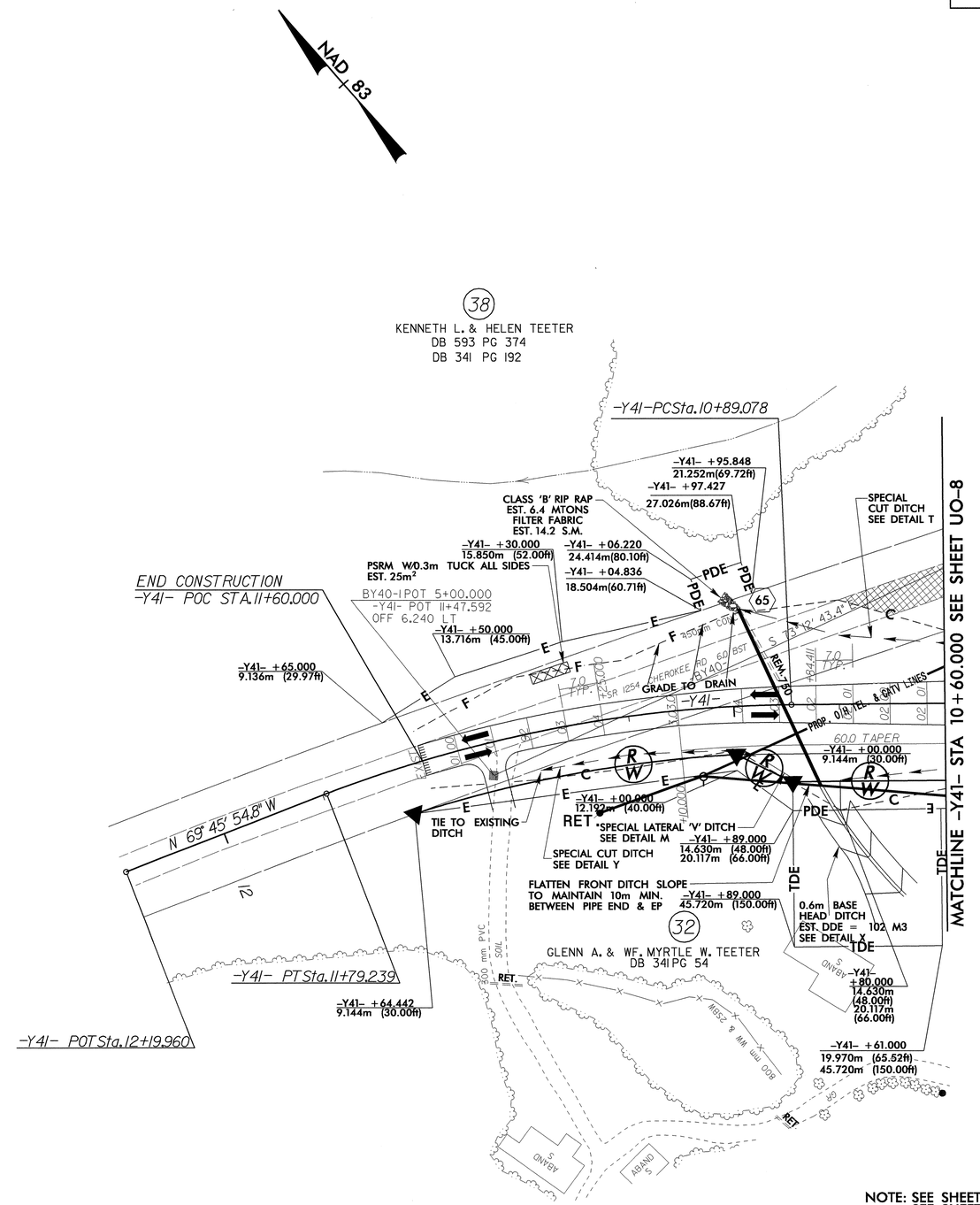
# UTILITIES BY OTHERS

METRIC

0

SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 53 FOR -Y41- PROFILE
: PAVEMENT REMOVAL


042597
21-JAN-2005 07:39
R:\Utilities\Proj\r0967cc_ut_sht32_U029.dgn

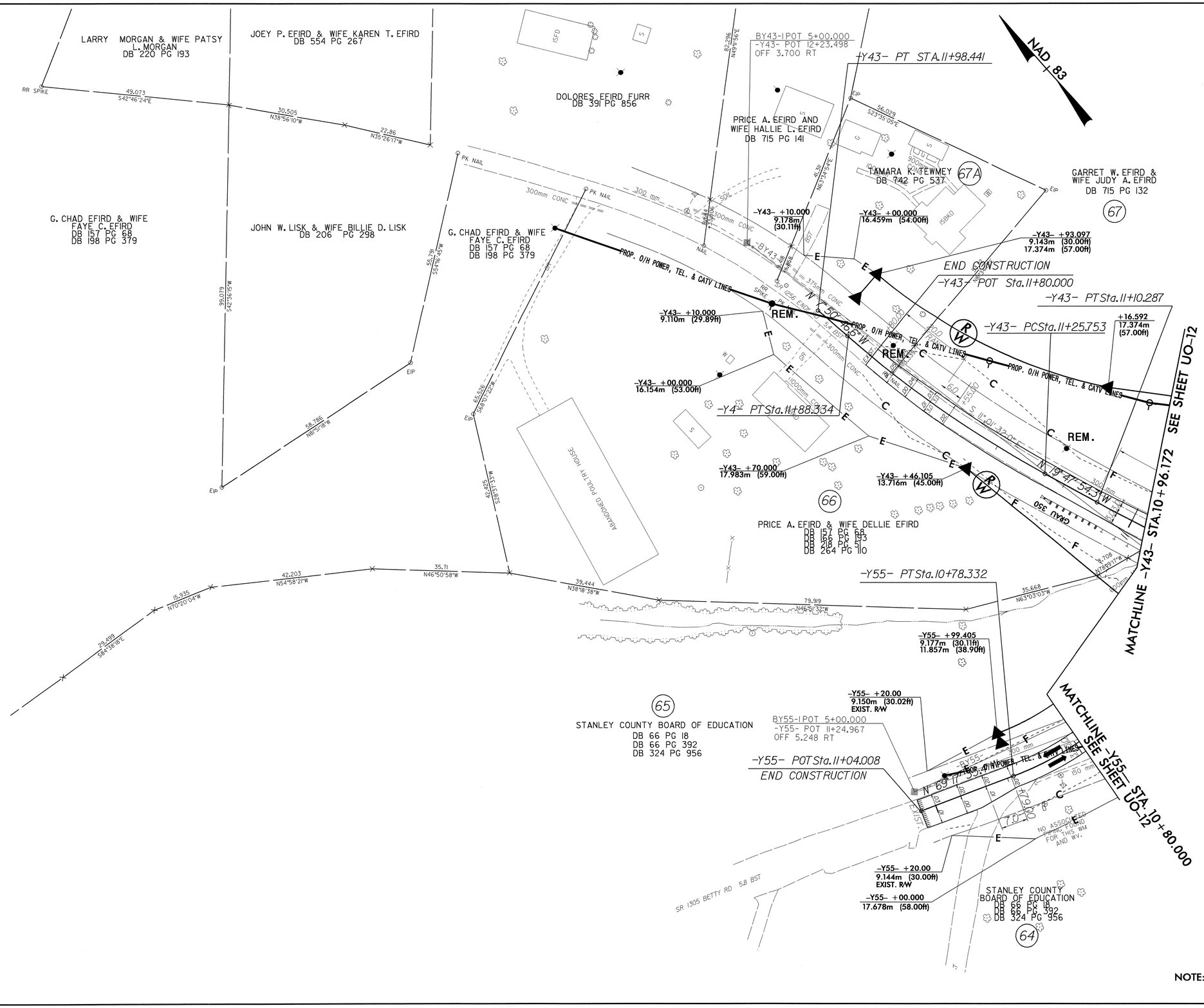
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-30 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 54 FOR -Y43- PROFILE

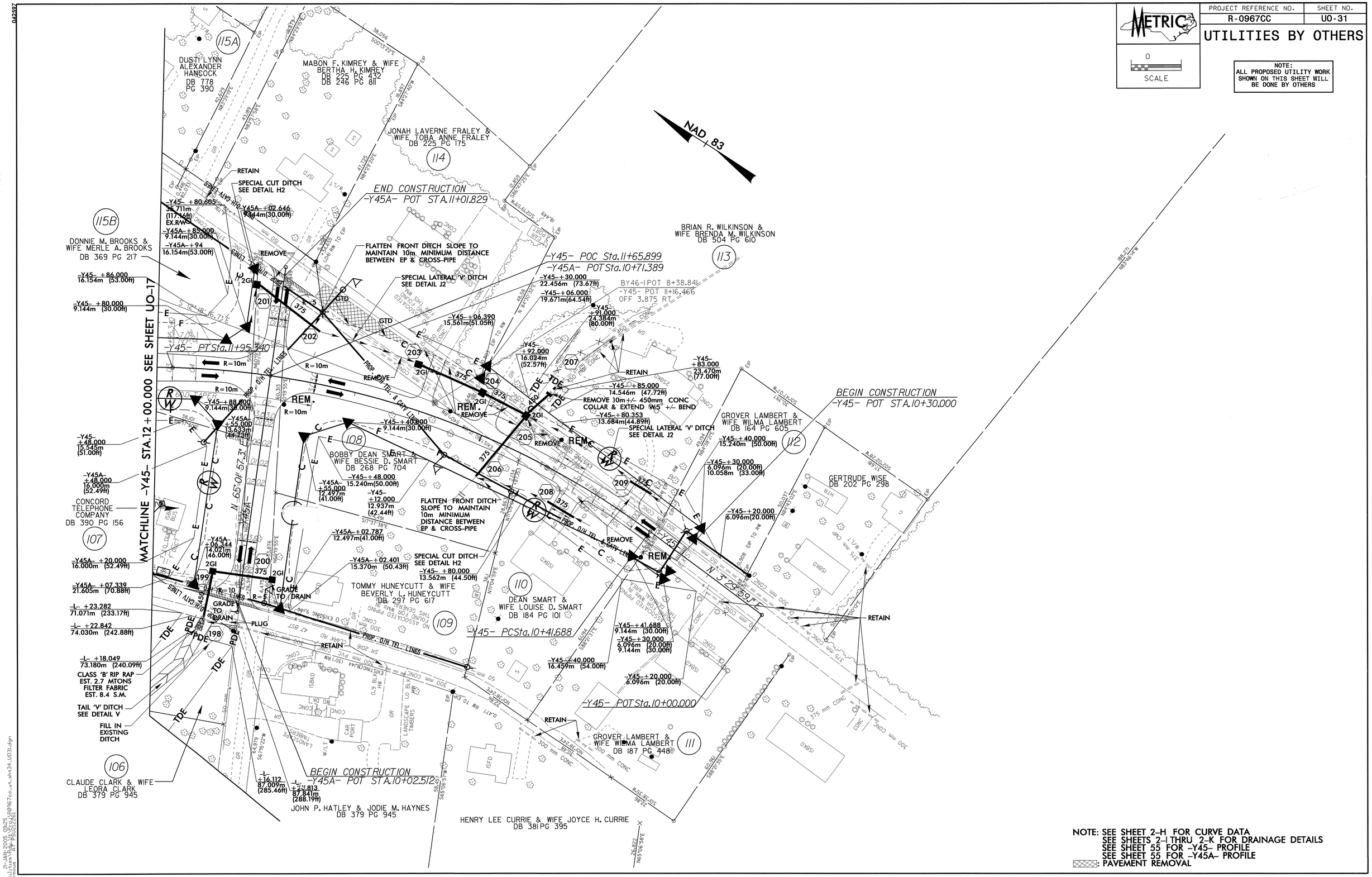
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-0967CC | U0-31 |

# UTILITIES BY OTHERS

METRIC

0
SCALE

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




NOTE: SEE SHEET 2-H FOR CURVE DATA
SEE SHEETS 2-I THRU 2-K FOR DRAINAGE DETAILS
SEE SHEET 55 FOR -Y45- PROFILE
SEE SHEET 55 FOR -Y45A- PROFILE
: PAVEMENT REMOVAL