9/09/99

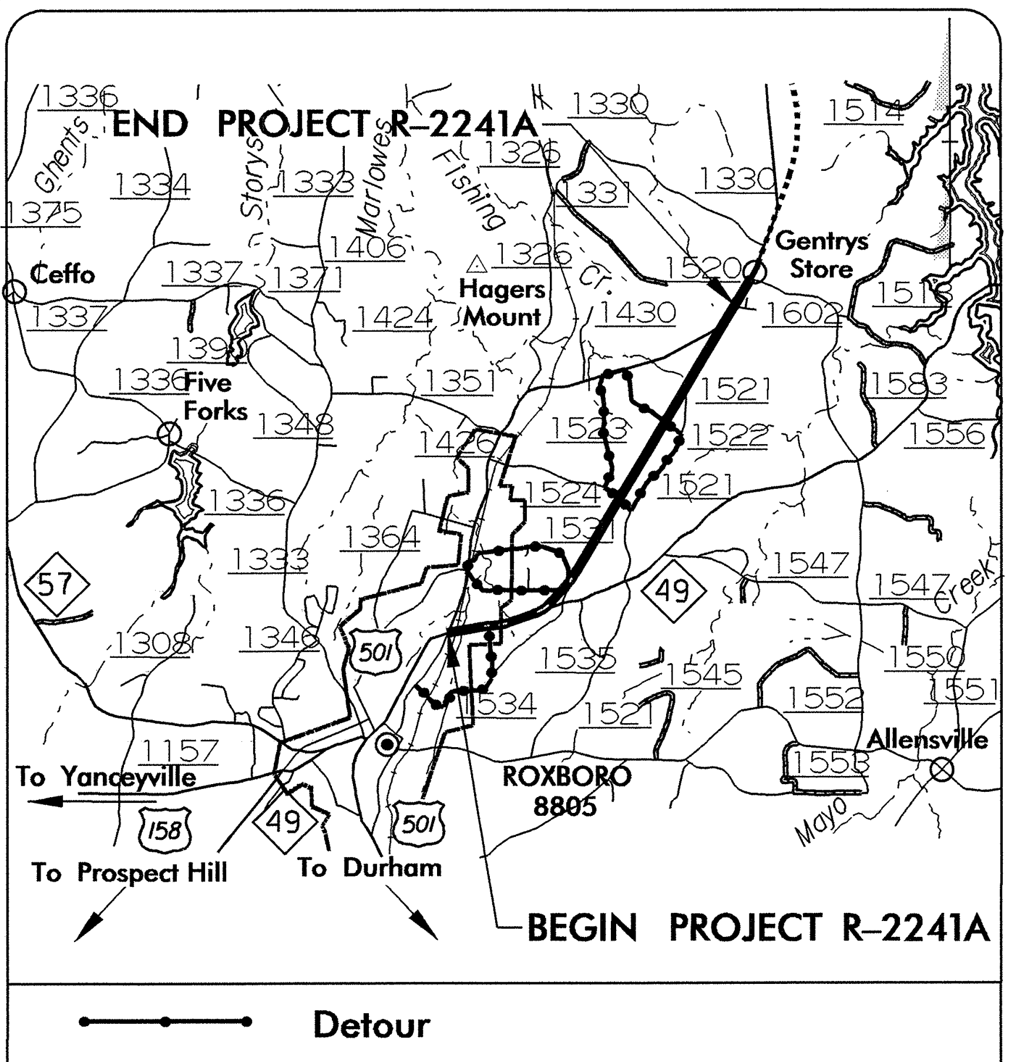
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

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

T.I.P. NO.	SHEET NO.
R-2241A	UC-1

UTILITY CONSTRUCTION PLANS
PERSON COUNTY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END PROJECT R-2241A
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Ghents
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Marlowes
Fishing
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Gentrys Store
Ceffo
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1371
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Hagers Mount
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Five Forks
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1547
Creek
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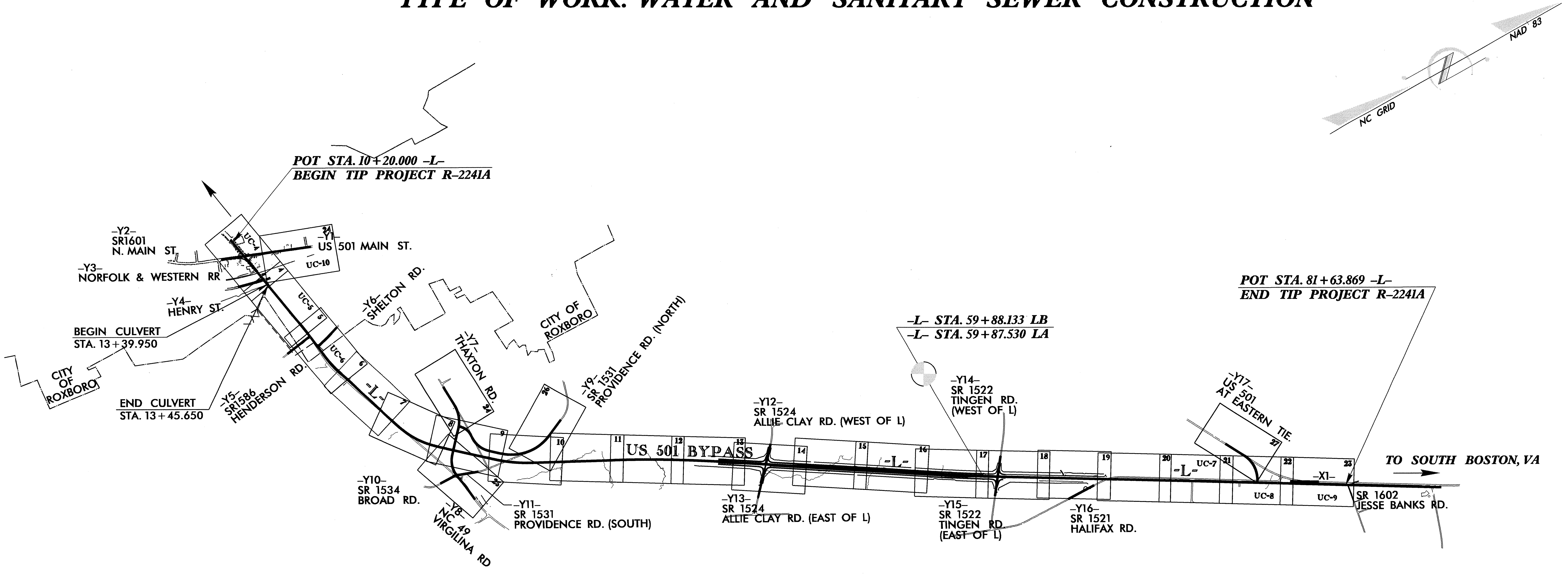
501
1535
1545
1550
1534
1552
1551
1521
1157
Allensville
To Yanceyville
ROXBORO 8805
1553
Mayo
158
49
501
To Prospect Hill
To Durham
BEGIN PROJECT R-2241A
Detour

VICINITY MAP

LOCATION: US 501 FROM NC 49 IN ROXBORO TO SOUTH OF SR 1602

TYPE OF WORK: WATER AND SANITARY SEWER CONSTRUCTION


NAD 83
NC GRID
POT STA. 10+20.000 -L-
BEGIN TIP PROJECT R-2241A
-Y2-
SR1601
N. MAIN ST.
-Y1-
US 501 MAIN ST.
-Y3-
NORFOLK & WESTERN RR
UC-4
UC-10
-Y4-
HENRY ST.
UC-5
BEGIN CULVERT
STA. 13+39.950
-Y6-
SHELTON RD.
CITY OF ROXBORO
CITY OF ROXBORO
UC-6
-Y7-
THAXTON RD.
END CULVERT
STA. 13+45.650
-Y5-
SR1586
HENDERSON RD.
-L-
-Y9-
SR 1531
PROVIDENCE RD. (NORTH)
-L- STA. 59+88.133 LB
-L- STA. 59+87.530 LA
-Y14-
SR 1522
TINGEN RD.
(WEST OF L)
-Y12-
SR 1524
ALLIE CLAY RD. (WEST OF L)
POT STA. 81+63.869 -L-
END TIP PROJECT R-2241A
-Y17-
US 501
EASTERN TIE
US 501 BYPASS
-L-
-L-
UC-7
-X1-
TO SOUTH BOSTON, VA
UC-8
UC-9
SR 1602
JESSE BANKS RD.
-Y10-
SR 1534
BROAD RD.
-Y8-
NC 49
VIRGILINA RD
-Y11-
SR 1531
PROVIDENCE RD. (SOUTH)
-Y13-
SR 1524
ALLIE CLAY RD. (EAST OF L)
-Y15-
SR 1522
TINGEN RD.
(EAST OF L)
-Y16-
SR 1521
HALIFAX RD.
4
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PROJECT: R-2241A

GRAPHIC SCALES

5 0 10
PLANS

5 0 10
PROFILE (HORIZONTAL)

1 0 2
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-1A	SYMBOLOGY SHEET
UC-2 - UC-2B	UTILITY NOTES
UC-3 - UC-3A	DETAIL SHEETS
UC-4 THRU UC-10	UTILITY CONSTRUCTION PLAN SHEETS
UC-11 THRU UC-23	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

(1) WATER - CITY OF ROXBORO
(2) SANITARY SEWER - CITY OF ROXBORO

SEAL

SEAL 16832
JAMES S. MCKEE
James S. McKee
8/10/12

PREPARED IN THE OFFICE OF:

DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING SECTION

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

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

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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	———
11¼ Degree Bend	+↗
22½ Degree Bend	+↗
45 Degree Bend	+↗
90 Degree Bend	+↑
Plug	▐
Tee	┼
Cross	╬
Reducer	▶
Gate Valve	GV ⋈
Butterfly Valve	BV ⋈
Tapping Valve	TGV ⋈
Line Stop	LS ▮
Line Stop with Bypass	LS/BP ▮
Blow Off	BO ■
Fire Hydrant	PFH ◆
Relocate Fire Hydrant	RFH ◆
Remove Fire Hydrant	REM FH ·
Water Meter	PWM ▮
Relocate Water Meter	RWM ▮
Remove Water Meter	REM WM ·
Water Pump Station	PS(W)
RPZ Backflow Preventer	PRPZ ☒
DCV Backflow Preventer	PBFP ☒
Relocate RPZ Backflow Preventer	RRPZ ☒
Relocate DCV Backflow Preventer	RBFP ☒

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	———
Force Main Sewer Line (Sized as Shown)	———
Manhole (Sized per Note)	●
Sewer Pump Station	PS(SS)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole	○
Telephone Pole	-○-
Joint Use Pole	-○-
Telephone Pedestal	TEL PED ○
Utility Line by Others (Type as Shown)	- - - - - -
Trenchless Installation	———
Encasement by Open Cut	———
Encasement	———
Thrust Block	▮
Air Release Valve	AR ●
Utility Vault	UV ■
Concrete Pier	CP ■
Steel Pier	SP ☐
Plan Note	← NOTE
Pay Item Note	← PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole	●
Telephone Pole	-●-
Joint Use Pole	-●-
Utility Pole	●
Utility Pole with Base	⊡
H-Frame Pole	●—●
Power Transmission Line Tower	☒
Water Manhole	⊛
Power Manhole	⊛
Telephone Manhole	⊛
Sanitary Sewer Manhole	⊛
Hand Hole for Cable	⊠
Power Transformer	⊠
Telephone Pedestal	⊡
CATV Pedestal	⊡
Gas Valve	◇
Gas Meter	◇
Located Miscellaneous Utility Object	○
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.
*Underground Power Line	———
*Underground Telephone Cable	———
*Underground Telephone Conduit	———
*Underground Fiber Optics Telephone Cable	———
*Underground TV Cable	———
*Underground Fiber Optics TV Cable	———
*Underground Gas Pipeline	———
Aboveground Gas Pipeline	A/G Gas ———
*Underground Water Line	———
Aboveground Water Line	A/G Water ———
*Underground Gravity Sanitary Sewer Line	———
Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer ———
*Underground SS Forced Main Line	———
Underground Unknown Utility Line	———
SUE Test Hole	●
Water Meter	⬭
Water Valve	⊕
Fire Hydrant	◇
Sanitary Sewer Cleanout	⊕

*For Existing Utilities

Utility Line Drawn from Record (Type as Shown)	———
Designated Utility Line (Type as Shown)	———

REV: 2/1/2012

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jnigro AT UCU258653

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-2

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4119

SEAL 6832
JAMES S. MCKEE
James S. McKee
8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JULY 2006.

2. THE EXISTING UTILITIES BELONG TO CITY OF ROXBORO.

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF WATER QUALITY. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITONAL COST TO THE DEPARTMENT.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

8. ALL BENDS TO BE RESTRAINED TO PIPES AND ONE LEG TO BE A FULL JOINT OF PIPE.

9. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

10. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

PROJECT SPECIFIC NOTES:

1. NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES JULY 2006 . MEASUREMENT AND PAYMENT FOR WORK WILL BE IN ACCORDANCE WITH NCDOT'S "STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES" (DATED JULY 2006).

2. CITY OF ROXBORO SHALL BE NOTIFIED TO WITNESS ALL WATER LINE TESTING. CITY OF ROXBORO WILL TAKE ALL SAMPLES TO BE BACTERIOLOGICAL TESTED 72 HOURS AFTER FLUSHING AND REFILLING.

3. CONTRACTOR SHALL LOCATE, BASED ON PROJECT DATUM, ALL CONNECTIONS TO EXISTING WATER LINES, FITTINGS, AND VALVES. AS-BUILTS OF PROPOSED LINES SHALL INCLUDE COORDINATES FOR HORIZONTAL LOCATIONS TO CENTER OF PIPES, FITTINGS, AND VALVES AND VERTICAL LOCATIONS TO TOP OF PIPES, FITTINGS, AND VALVES. CONNECTIONS TO EXISTING WATER LINES SHALL BE COMPLETED IN FOUR (4) HOURS.

4. THE CONNECTIONS OF BOTH WATER LINES 4 AND 5 TO THE EXISTING MAINS AND APPROPRIATE PLUG WILL BE COMPLETED IN ONE FOUR(4) HOUR TIME FRAME. SHUTDOWN IS TO BE COORDINATED WITH EXISTING BUSINESSES FURTHER NORTH ON US 501.

5. CONTRACTOR SHALL INSTALL ALL NEW WATER SERVICE LINES FROM THE MAIN OVER TOP OF THE EXISTING OR PROPOSED STORM DRAINAGE.

LIST OF STANDARD DRAWINGS

840.52	PRECAST MANHOLE 1200mm, 1500mm, 1800mm DIAMETER
840.54	MANHOLE FRAME AND COVER
1515.01	WATER METER
1515.02	FIRE HYDRANT

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-2A

DESIGNED BY: JAN	
DRAWN BY: JAN	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	16832 JAMES S. MCKEE James S. McKee 8/10/12
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4119	UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

8/17/99

```
<*      1   Describe Chain SL1

Chain SL1 contains:
 35200 35201 35202 35203

Beginning chain SL1 description
==============================================================================

Point 35200           N       295,152.72 E       612,295.99 Sta      0+00.000

Course from 35200 to 35201 S 38° 14' 32.341" W Dist 30.99

Point 35201           N       295,128.39 E       612,276.80 Sta      0+30.987

Course from 35201 to 35202 S 5° 00' 21.062" E Dist 29.67

Point 35202           N       295,098.83 E       612,279.39 Sta      0+60.661

Course from 35202 to 35203 S 5° 00' 21.062" E Dist 15.15

Point 35203           N       295,083.73 E       612,280.72 Sta      0+75.810

==============================================================================
Ending chain SL1 description


<*      2   Describe Chain SL2

Chain SL2 contains:
 36070 36071 36072

Beginning chain SL2 description
==============================================================================

Point 36070           N       295,152.72 E       612,295.99 Sta      0+00.000

Course from 36070 to 36071 S 78° 12' 56.749" E Dist 18.67

Point 36071           N       295,148.91 E       612,314.27 Sta      0+18.674

Course from 36071 to 36072 S 12° 11' 03.931" E Dist 42.49

Point 36072           N       295,107.38 E       612,323.23 Sta      0+61.166

==============================================================================
Ending chain SL2 description


<*      3   Describe Chain SL3

Chain SL3 contains:
 SEW53 SEW54 SEW55 SEW56 SEW57

Beginning chain SL3 description
==============================================================================

Point SEW53           N       299,293.87 E       615,978.94 Sta      0+00.000

Course from SEW53 to SEW54 N 14° 01' 38.488" W Dist 27.36

Point SEW54           N       299,320.42 E       615,972.30 Sta      0+27.364

Course from SEW54 to SEW55 N 30° 44' 51.385" E Dist 120.00

Point SEW55           N       299,423.55 E       616,033.65 Sta      1+47.364

Course from SEW55 to SEW56 N 30° 44' 51.385" E Dist 120.00

Point SEW56           N       299,526.68 E       616,095.01 Sta      2+67.364

Course from SEW56 to SEW57 N 27° 33' 09.684" E Dist 53.83

Point SEW57           N       299,574.40 E       616,119.91 Sta      3+21.195

==============================================================================
Ending chain SL3 description
```

```
Chain WL1 contains:
 36000 36001 36002 36003 36004 36005 36006 36007 36008 36009 36010 36011 36012

Beginning chain WL1 description
==============================================================================

Point 36000           N       295,201.05 E       612,126.48 Sta      0+00.000

Course from 36000 to 36001 S 16° 19' 08.733" W Dist 1.34

Point 36001           N       295,199.77 E       612,126.11 Sta      0+01.337

Course from 36001 to 36002 S 68° 35' 47.355" E Dist 1.99

Point 36002           N       295,199.04 E       612,127.96 Sta      0+03.327

Course from 36002 to 36003 S 21° 24' 12.645" W Dist 15.22

Point 36003           N       295,184.87 E       612,122.40 Sta      0+18.546

Course from 36003 to 36004 S 21° 14' 00.139" W Dist 15.28

Point 36004           N       295,170.63 E       612,116.87 Sta      0+33.829

Course from 36004 to 36005 S 21° 25' 05.684" W Dist 21.41

Point 36005           N       295,150.70 E       612,109.05 Sta      0+55.234

Course from 36005 to 36006 S 21° 01' 45.391" W Dist 19.23

Point 36006           N       295,132.75 E       612,102.15 Sta      0+74.464

Course from 36006 to 36007 S 21° 03' 16.771" W Dist 23.50

Point 36007           N       295,110.82 E       612,093.71 Sta      0+97.963

Course from 36007 to 36008 S 21° 46' 36.063" W Dist 27.02

Point 36008           N       295,085.73 E       612,083.69 Sta      1+24.979

Course from 36008 to 36009 S 20° 50' 04.904" W Dist 36.46

Chain WL2 contains:
 36020 36021 36022 36023 36024 36025 36026 36027 36028 36029

Beginning chain WL2 description
==============================================================================

Point 36020           N       295,115.48 E       612,261.01 Sta      0+00.000

Course from 36020 to 36021 S 10° 07' 32.800" E Dist 10.46

Point 36021           N       295,105.19 E       612,262.85 Sta      0+10.456

Course from 36021 to 36022 S 12° 22' 27.200" W Dist 5.50

Point 36022           N       295,099.81 E       612,261.67 Sta      0+15.956

Course from 36022 to 36023 S 13° 09' 12.284" W Dist 31.56

Point 36023           N       295,069.08 E       612,254.49 Sta      0+47.514

Course from 36023 to 36024 S 16° 18' 37.635" W Dist 14.82

Point 36024           N       295,054.86 E       612,250.33 Sta      0+62.330

Course from 36024 to 36025 S 13° 38' 10.782" W Dist 16.39

Point 36025           N       295,038.94 E       612,246.46 Sta      0+78.717

Course from 36025 to 36026 S 14° 05' 32.022" W Dist 14.59

Point 36026           N       295,024.79 E       612,242.91 Sta      0+93.309

Course from 36026 to 36027 S 14° 31' 31.500" W Dist 1.50

Point 36027           N       295,023.34 E       612,242.53 Sta      0+94.807

Course from 36027 to 36028 N 75° 28' 28.500" W Dist 1.52

Point 36028           N       295,023.72 E       612,241.06 Sta      0+96.328

Course from 36028 to 36029 S 14° 31' 31.500" W Dist 0.78
```

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-2B

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
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TRANSPORTATION

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SEAL 16832
JAMES S. MCKEE
James S. McKee
8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

```
Chain WL4 contains:
 32000 32001 32002 32003 32004 32005 32006 32007 32008 32009 32010 32011

Beginning chain WL4 description
===============================================================================

Point 32000            N      299,614.59 E        616,168.63 Sta       0+00.000

Course from 32000 to 32001 N 28° 27' 32.612" E Dist 0.89

Point 32001            N      299,615.37 E        616,169.06 Sta       0+00.893

Course from 32001 to 32002 N 17° 06' 12.218" E Dist 58.62

Point 32002            N      299,671.40 E        616,186.30 Sta       0+59.509

Course from 32002 to 32003 N 20° 44' 51.571" E Dist 5.80

Point 32003            N      299,676.82 E        616,188.35 Sta       0+65.309

Course from 32003 to 32004 N 25° 44' 51.571" E Dist 11.27

Point 32004            N      299,686.97 E        616,193.25 Sta       0+76.581

Course from 32004 to 32005 N 31° 10' 25.499" E Dist 55.63

Point 32005            N      299,734.57 E        616,222.04 Sta       1+32.207

Course from 32005 to 32006 N 26° 39' 27.754" E Dist 5.80

Point 32006            N      299,739.75 E        616,224.64 Sta       1+38.007

Course from 32006 to 32007 N 21° 39' 27.754" E Dist 5.80

Point 32007            N      299,745.14 E        616,226.78 Sta       1+43.807

Course from 32007 to 32008 N 16° 39' 27.754" E Dist 5.80

Point 32008            N      299,750.70 E        616,228.45 Sta       1+49.607

Course from 32008 to 32009 N 28° 20' 32.246" W Dist 5.80

Point 32009            N      299,755.80 E        616,225.69 Sta       1+55.407

Course from 32009 to 32010 N 33° 20' 32.246" W Dist 5.80

Point 32010            N      299,760.65 E        616,222.51 Sta       1+61.207

Course from 32010 to 32011 N 38° 20' 32.246" W Dist 3.25

Point 32011            N      299,763.20 E        616,220.49 Sta       1+64.461

===============================================================================
```

```
Chain WL5 contains:
 32020 32021 32022 32023 32024 32025 32026 32027 32028

Beginning chain WL5 description
===============================================================================

Point 32020            N      299,761.65 E        616,221.71 Sta       0+00.000

Course from 32020 to 32021 N 51° 30' 02.695" E Dist 21.60

Point 32021            N      299,775.09 E        616,238.62 Sta       0+21.596

Course from 32021 to 32022 N 45° 32' 48.892" E Dist 21.79

Point 32022            N      299,790.35 E        616,254.17 Sta       0+43.383

Course from 32022 to 32023 N 42° 42' 45.723" E Dist 22.40

Point 32023            N      299,806.81 E        616,269.36 Sta       0+65.787

Course from 32023 to 32024 N 42° 35' 00.237" E Dist 7.42

Point 32024            N      299,812.27 E        616,274.38 Sta       0+73.205

Course from 32024 to 32025 N 39° 08' 54.387" E Dist 12.52

Point 32025            N      299,821.99 E        616,282.29 Sta       0+85.730

Course from 32025 to 32026 N 34° 13' 58.336" E Dist 8.89

Point 32026            N      299,829.34 E        616,287.29 Sta       0+94.620

Course from 32026 to 32027 N 29° 13' 58.336" E Dist 5.80

Point 32027            N      299,834.40 E        616,290.13 Sta       1+00.420

Course from 32027 to 32028 N 40° 28' 58.335" E Dist 0.30

Point 32028            N      299,834.63 E        616,290.32 Sta       1+00.724

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jnigro AT UCU258653

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-3

METRIC

0

SCALE

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
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FAX:(919)250-4119

SEAL 16832
JAMES S. MCKEE
8/10/12

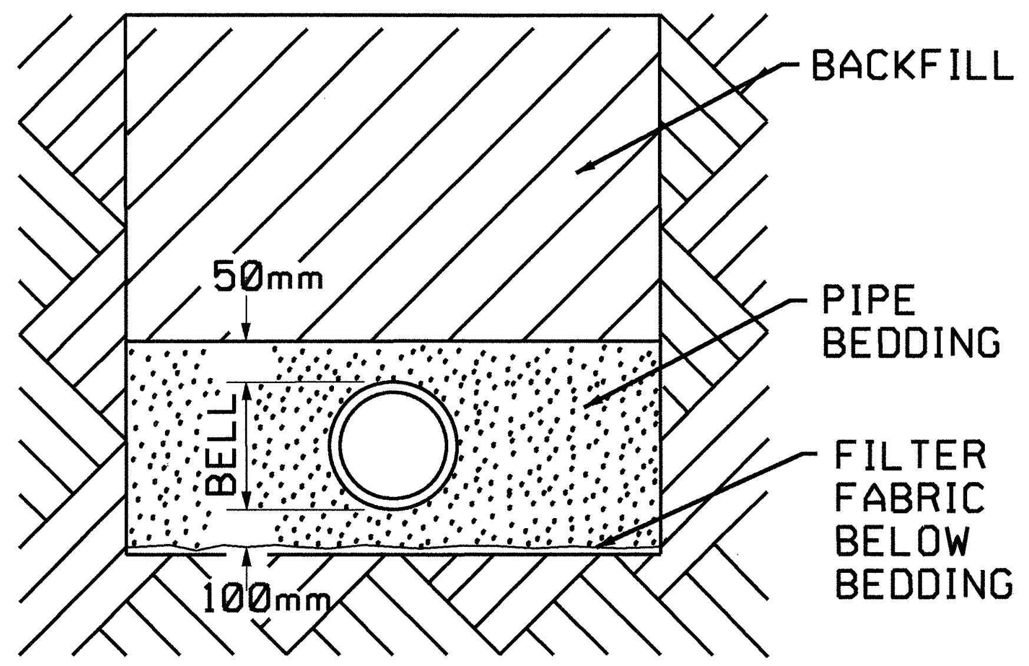
UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

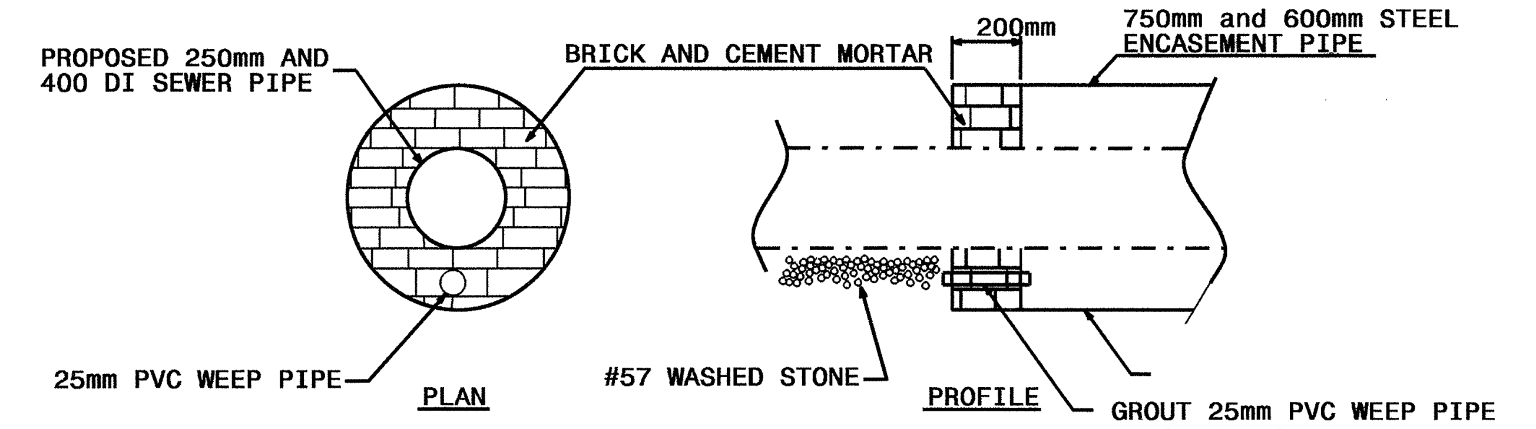
MAXIMUM TRENCH WIDTH
AT TOP OF PIPE

NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (mm)
100	700
150	750
200	800
250	850
300	900
350	950
400	1000
450	1050

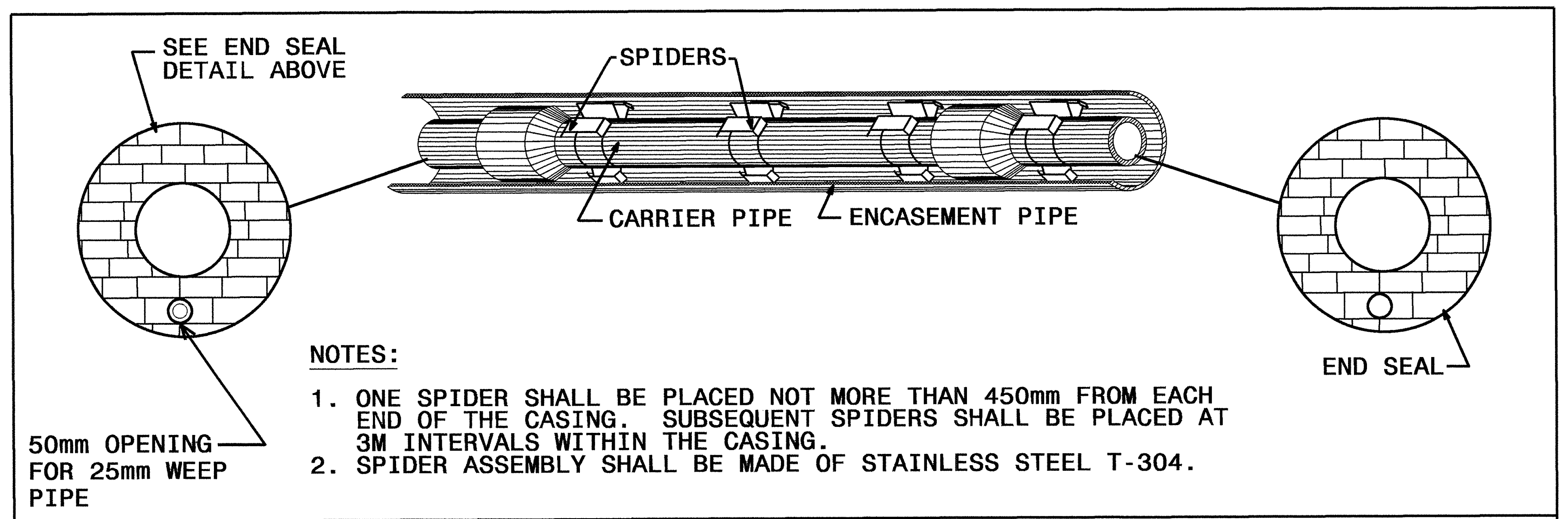
WATER AND SEWER LINE TRENCH DETAIL N.T.S.


BACKFILL
50mm
BELL
PIPE BEDDING
FILTER FABRIC BELOW BEDDING
100mm

PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS VI. TRENCH BACKFILLED IN LOOSE 6" 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.


PROPOSED 250mm AND 400 DI SEWER PIPE
BRICK AND CEMENT MORTAR
200mm
750mm and 600mm STEEL ENCASEMENT PIPE
25mm PVC WEEP PIPE
PLAN
#57 WASHED STONE
PROFILE
GROUT 25mm PVC WEEP PIPE INTO 50mm OPENNING

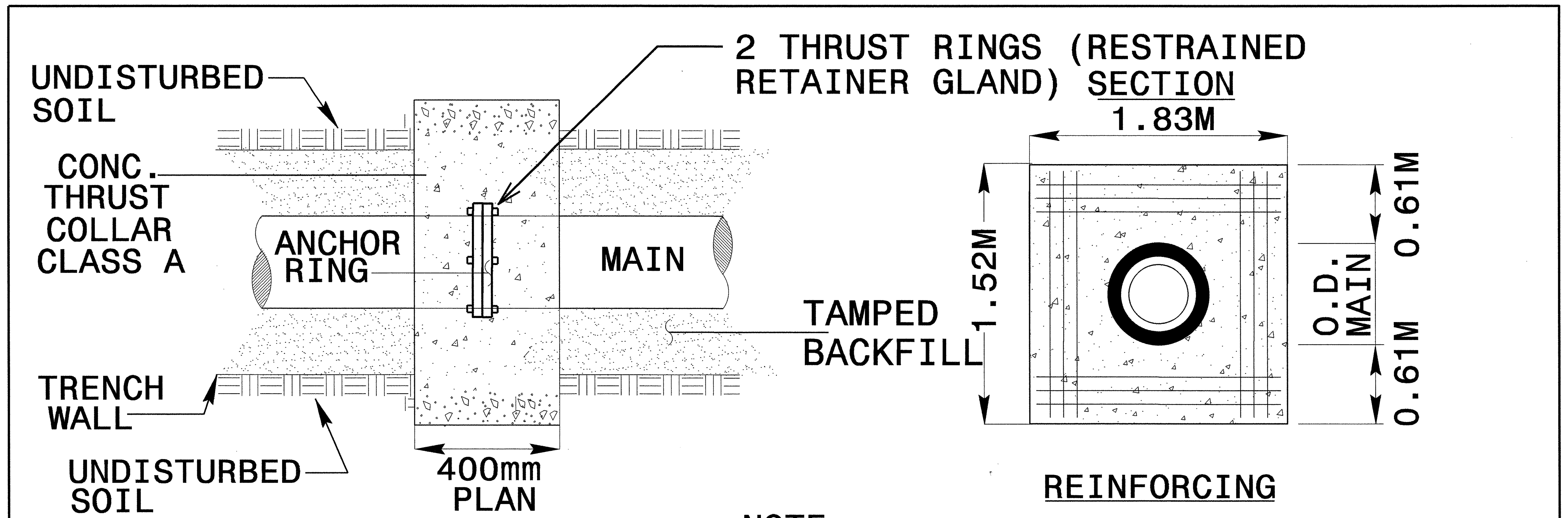
END SEAL ENCASEMENT DETAIL


SEE END SEAL DETAIL ABOVE
SPIDERS
CARRIER PIPE
ENCASEMENT PIPE
END SEAL
50mm OPENING FOR 25mm WEEP PIPE

NOTES:

1. ONE SPIDER SHALL BE PLACED NOT MORE THAN 450mm FROM EACH END OF THE CASING. SUBSEQUENT SPIDERS SHALL BE PLACED AT 3M INTERVALS WITHIN THE CASING.
2. SPIDER ASSEMBLY SHALL BE MADE OF STAINLESS STEEL T-304.

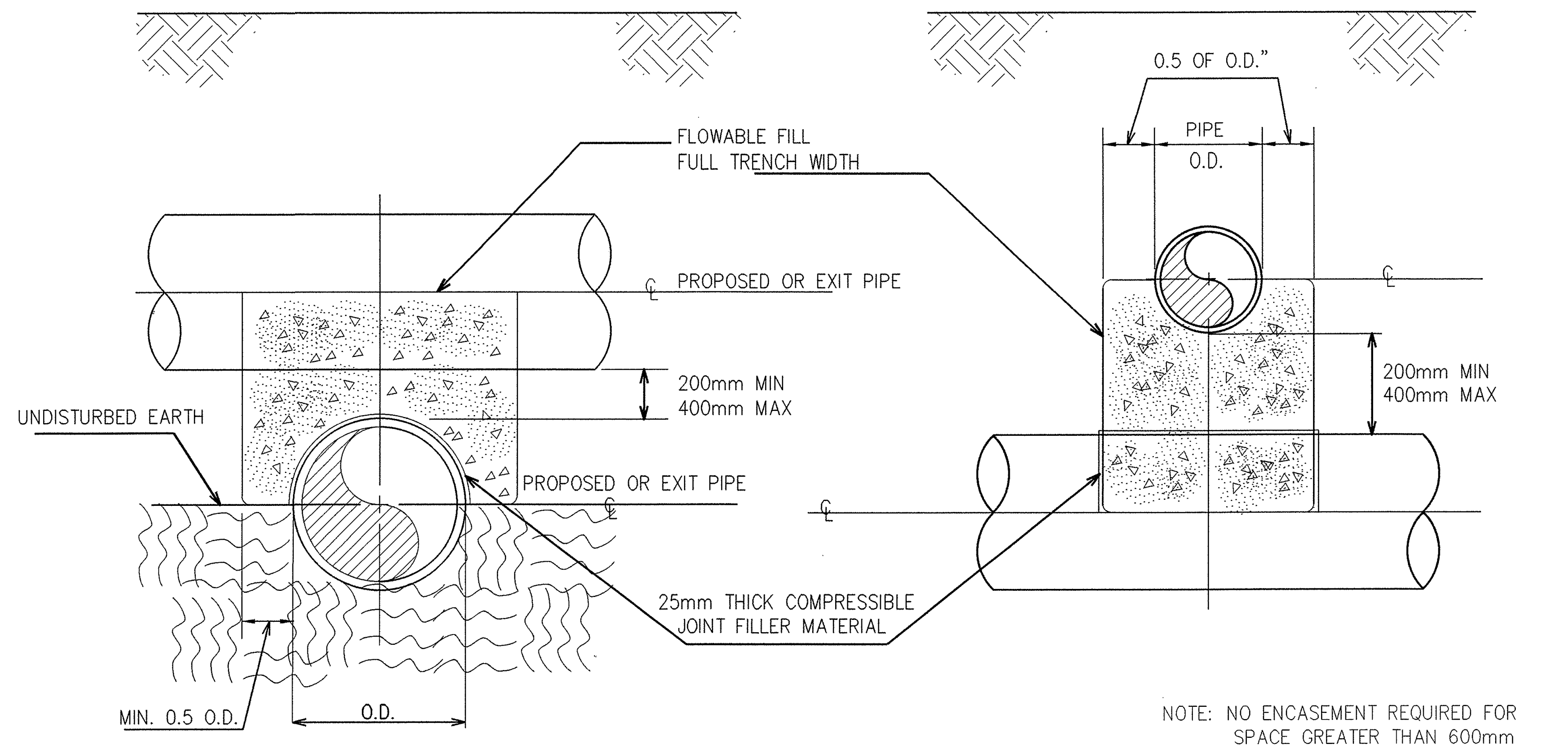
PROPOSED PIPE ENCASEMENT DETAIL


UNDISTURBED SOIL
CONC. THRUST COLLAR CLASS A
ANCHOR RING
MAIN
2 THRUST RINGS (RESTRAINED RETAINER GLAND)
TAMPED BACKFILL
TRENCH WALL
UNDISTURBED SOIL
400mm
PLAN
SECTION
SECTION
1.83M
1.52M
O.D. MAIN
0.61M
0.61M
REINFORCING

NOTE:
150mm to 300mm MAIN = 12-NO. 20mm BARS
BARS PLACED AS SHOWN 150mm O.C.

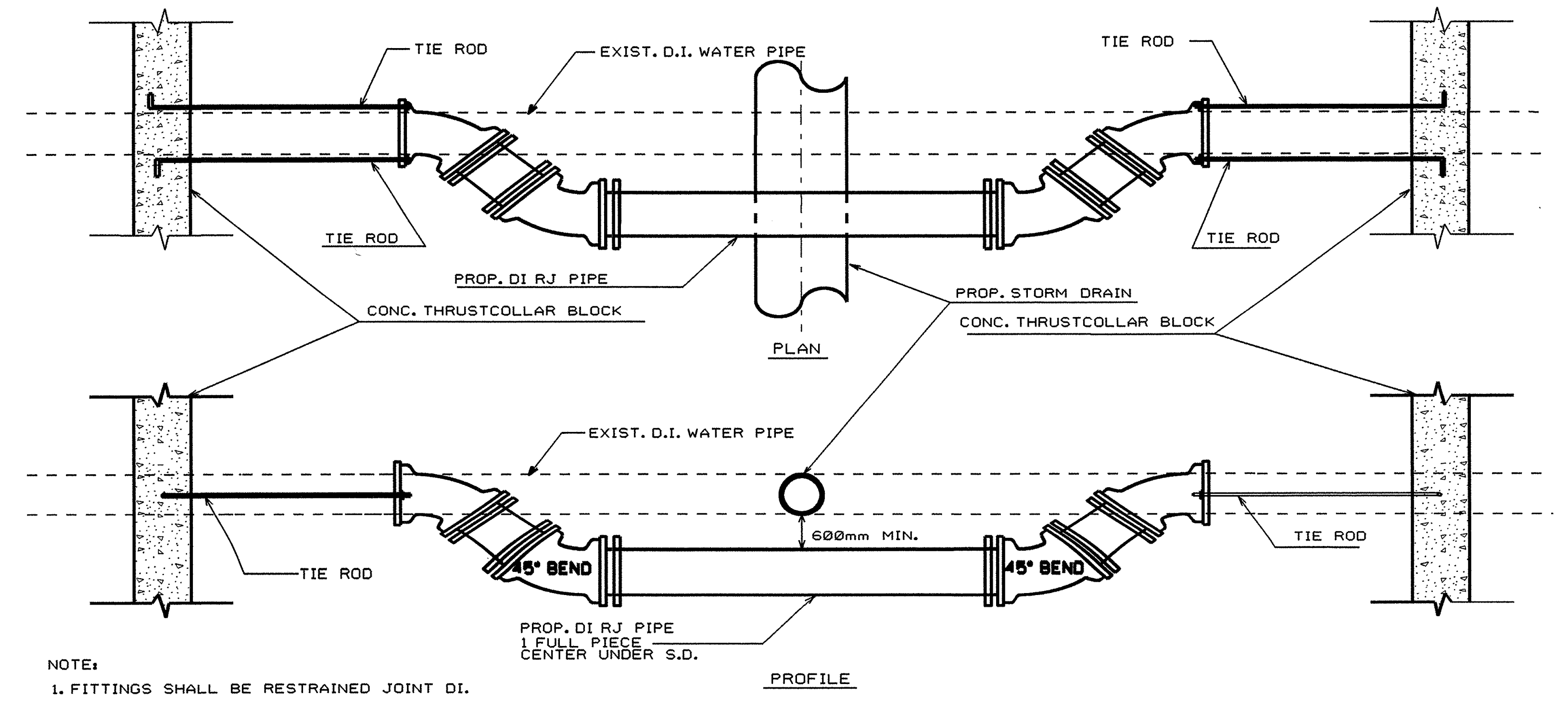
THRUST COLLAR DETAIL - WATER LINE

FLOWABLE FILL ENCASEMENT


FLOWABLE FILL FULL TRENCH WIDTH
PROPOSED OR EXIT PIPE
200mm MIN 400mm MAX
UNDISTURBED EARTH
PROPOSED OR EXIT PIPE
25mm THICK COMPRESSIBLE JOINT FILLER MATERIAL
MIN. 0.5 O.D.
O.D.
0.5 OF O.D."
PIPE O.D.
200mm MIN 400mm MAX

NOTE: NO ENCASEMENT REQUIRED FOR SPACE GREATER THAN 600mm

*NTS


TIE ROD
EXIST. D.I. WATER PIPE
TIE ROD
TIE ROD
TIE ROD
PROP. DI RJ PIPE
CONC. THRUSTCOLLAR BLOCK
PLAN
PROP. STORM DRAIN
CONC. THRUSTCOLLAR BLOCK
EXIST. D.I. WATER PIPE
TIE ROD
45° BEND
600mm MIN.
45° BEND
TIE ROD
PROP. DI RJ PIPE 1 FULL PIECE CENTER UNDER S.D.
PROFILE

NOTE:

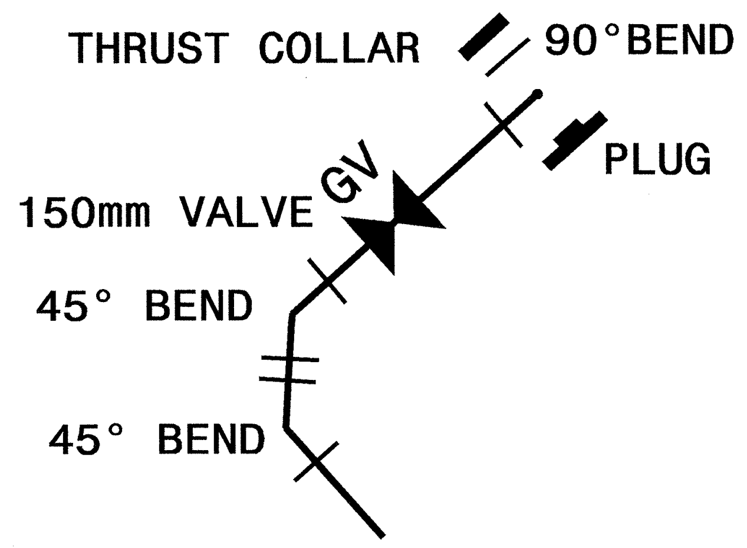
1. FITTINGS SHALL BE RESTRAINED JOINT DI.
2. CONC. THRUST BLOCK SHALL BE PLACED AND CURED THREE DAYS PRIOR TO CUTTING EXISTING PIPE.

*NTS

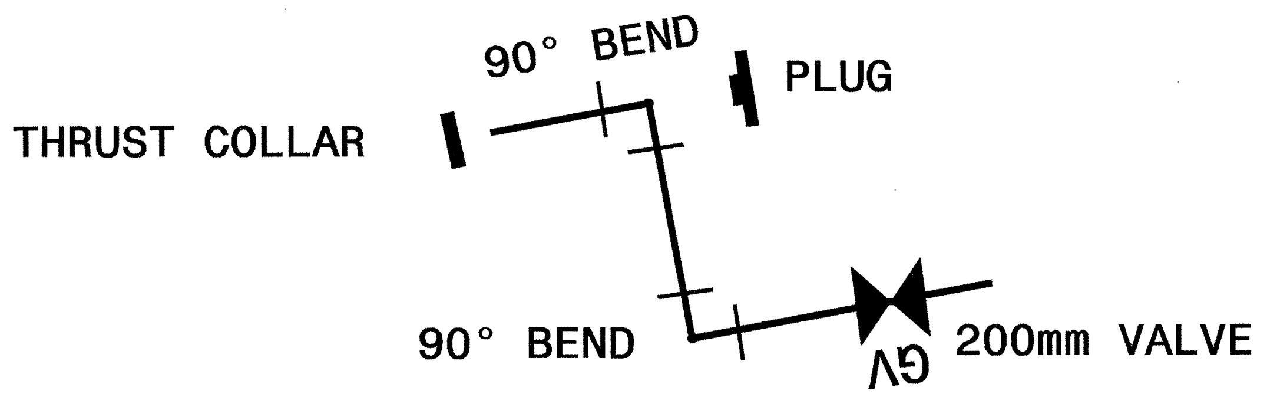
RE-ELEVATION OF EXIST. WATER PIPE AT PROP. STORM DRAINAGE

8/17/99

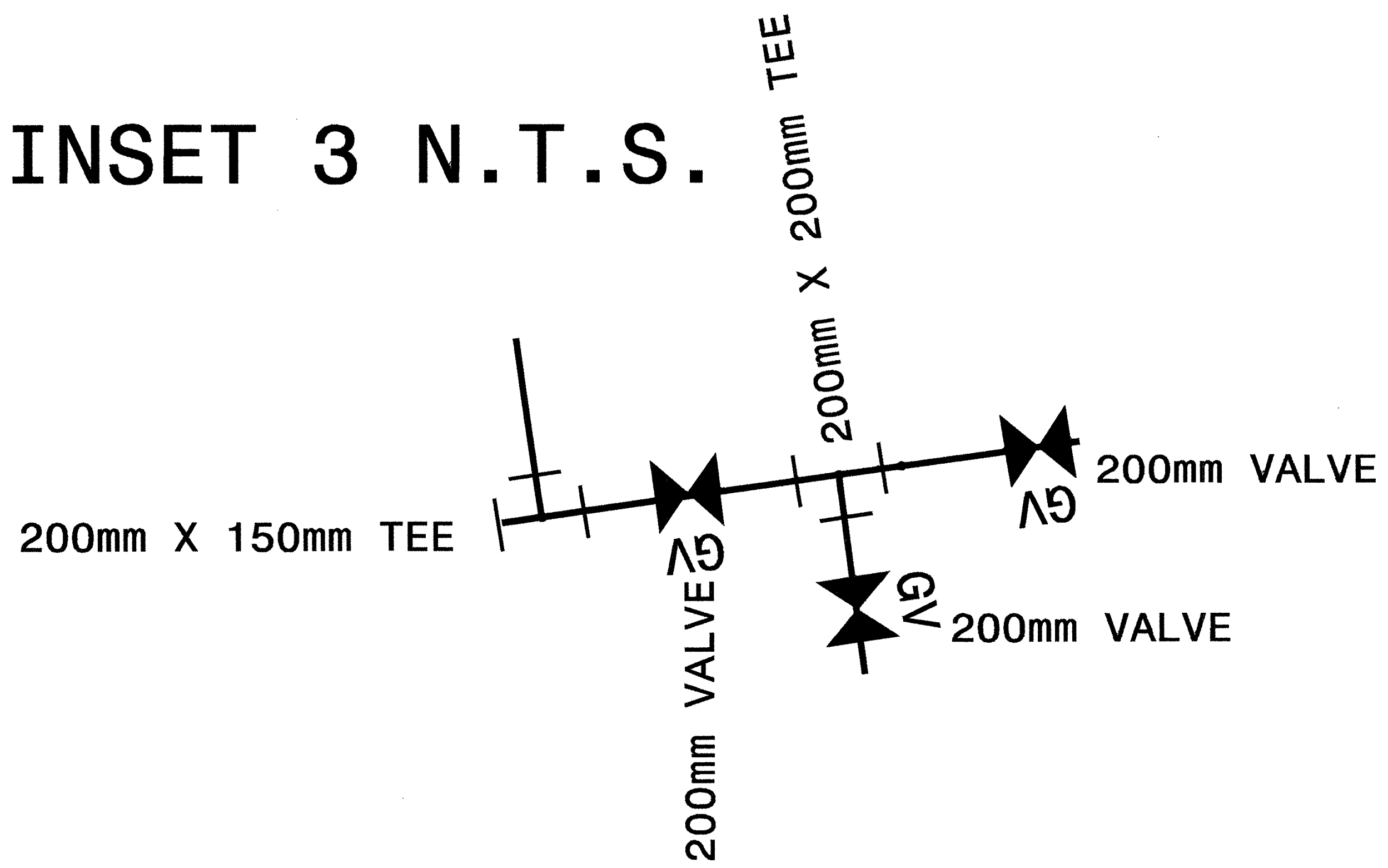
INSET 1 N.T.S.


THRUST COLLAR
90°BEND
PLUG
GV
150mm VALVE
45° BEND
45° BEND

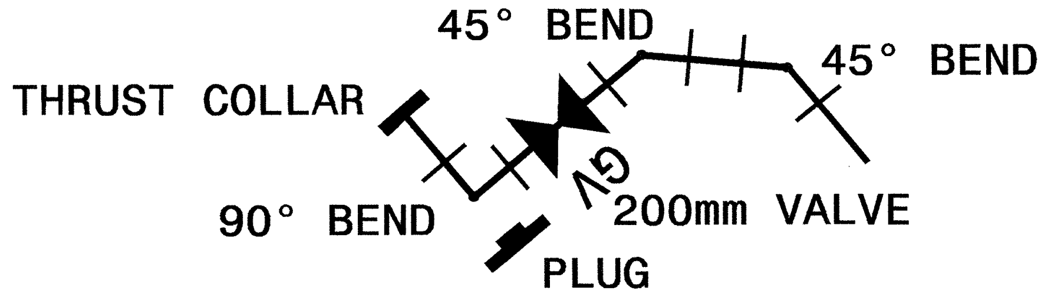
INSET 2 N.T.S.


90° BEND
PLUG
THRUST COLLAR
90° BEND
GV
200mm VALVE

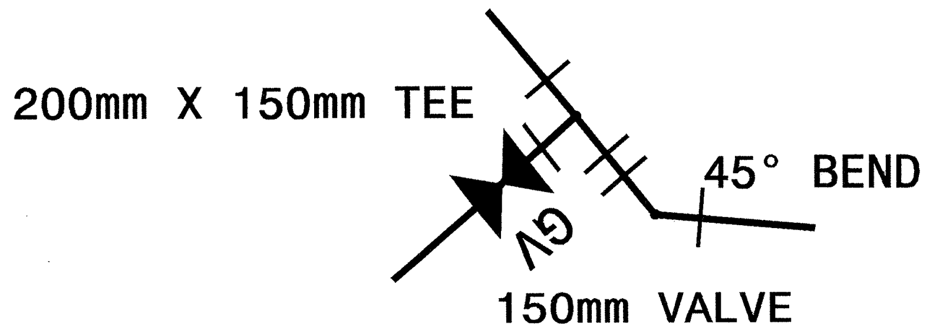
INSET 3 N.T.S.


200mm X 200mm TEE
200mm VALVE
GV
200mm X 150mm TEE
GV
GV
200mm VALVE
200mm VALVE

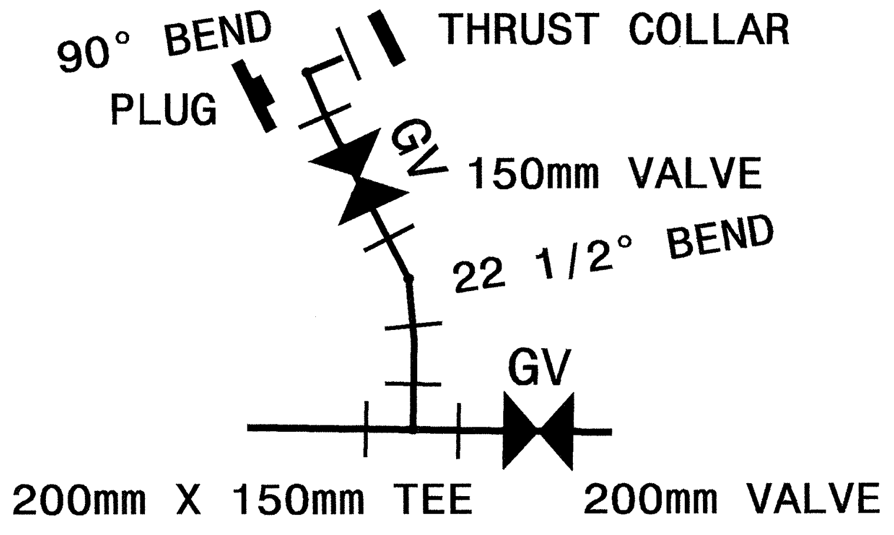
INSET 4 N.T.S.


45° BEND
45° BEND
THRUST COLLAR
90° BEND
GV
200mm VALVE
PLUG

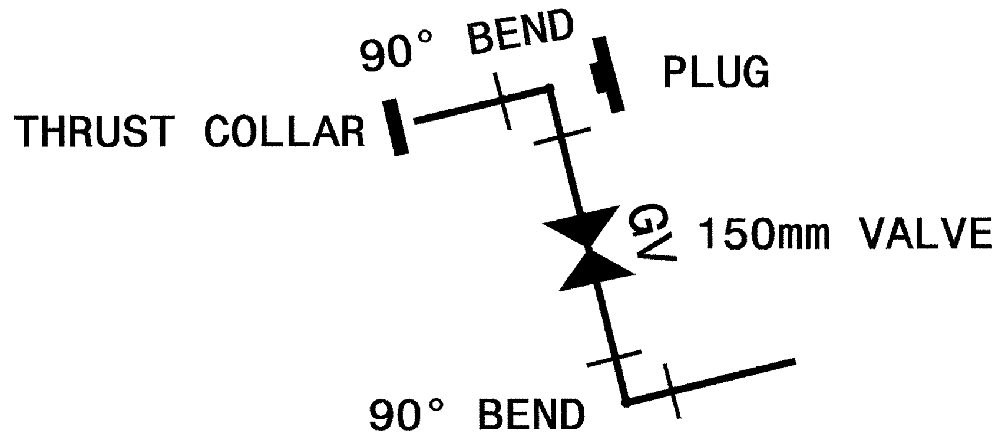
INSET 5 N.T.S.


200mm X 150mm TEE
45° BEND
GV
150mm VALVE

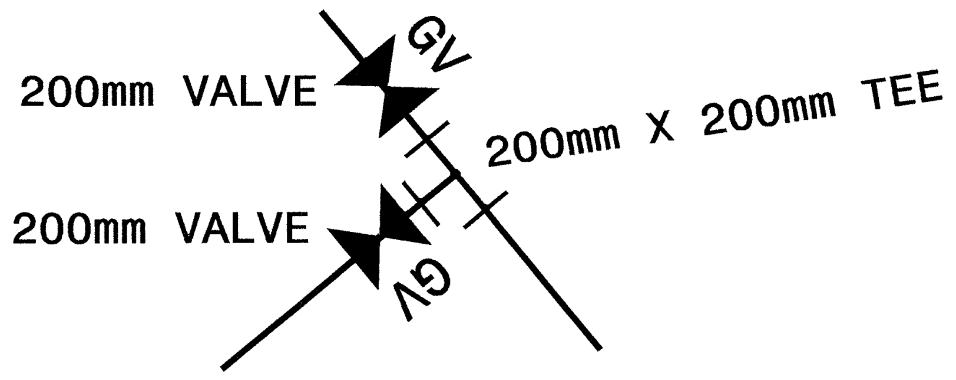
INSET 6 N.T.S.


90° BEND
THRUST COLLAR
PLUG
GV
150mm VALVE
22 1/2° BEND
GV
200mm X 150mm TEE
200mm VALVE

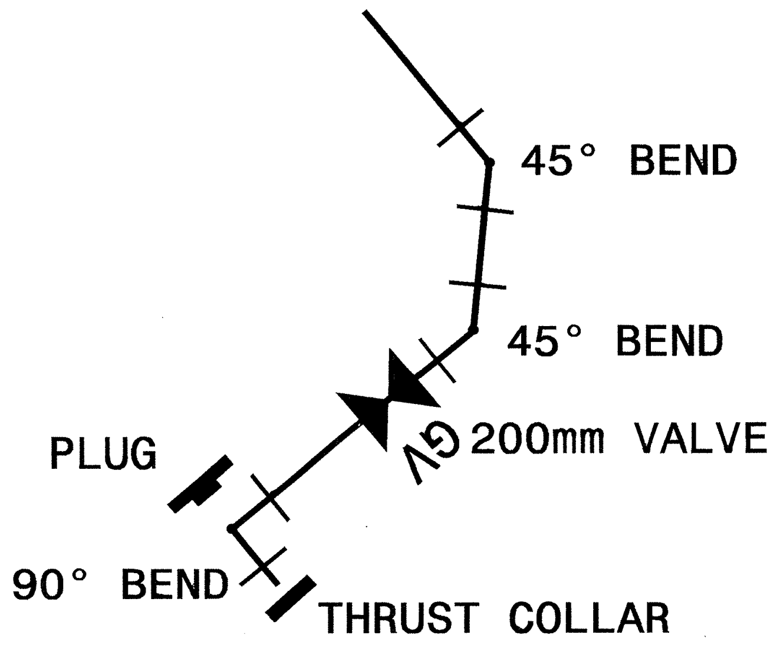
INSET 7 N.T.S.


90° BEND
PLUG
THRUST COLLAR
GV
150mm VALVE
90° BEND

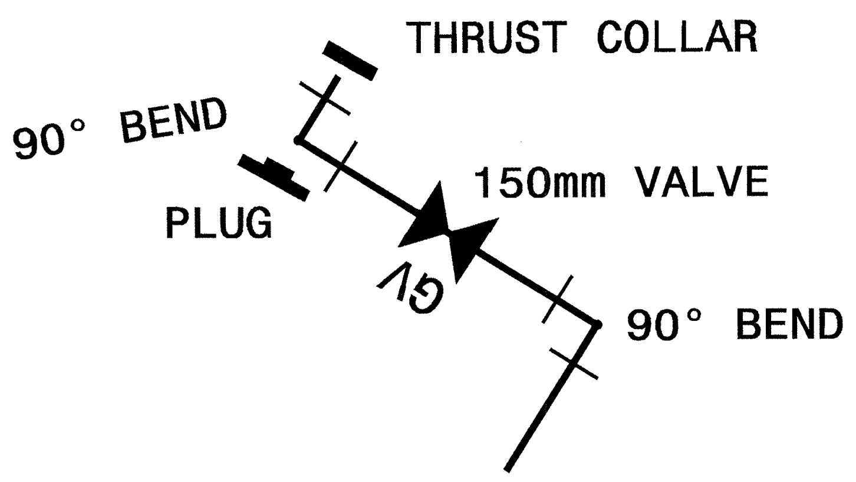
INSET 8 N.T.S.


GV
200mm VALVE
200mm X 200mm TEE
200mm VALVE
GV

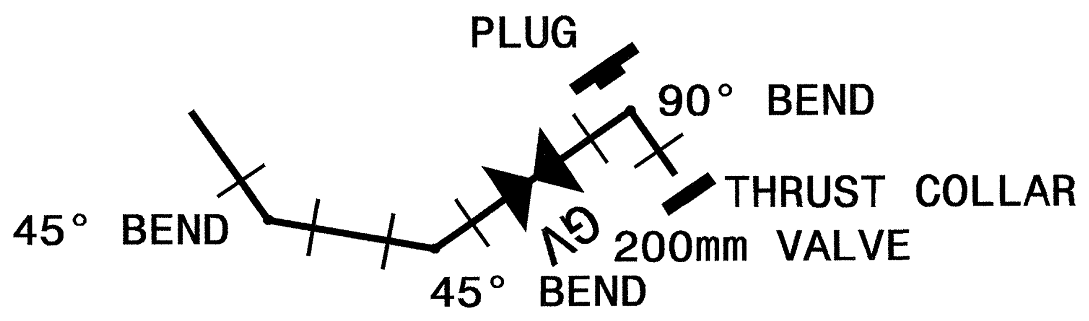
INSET 9 N.T.S.


45° BEND
45° BEND
GV
200mm VALVE
PLUG
90° BEND
THRUST COLLAR

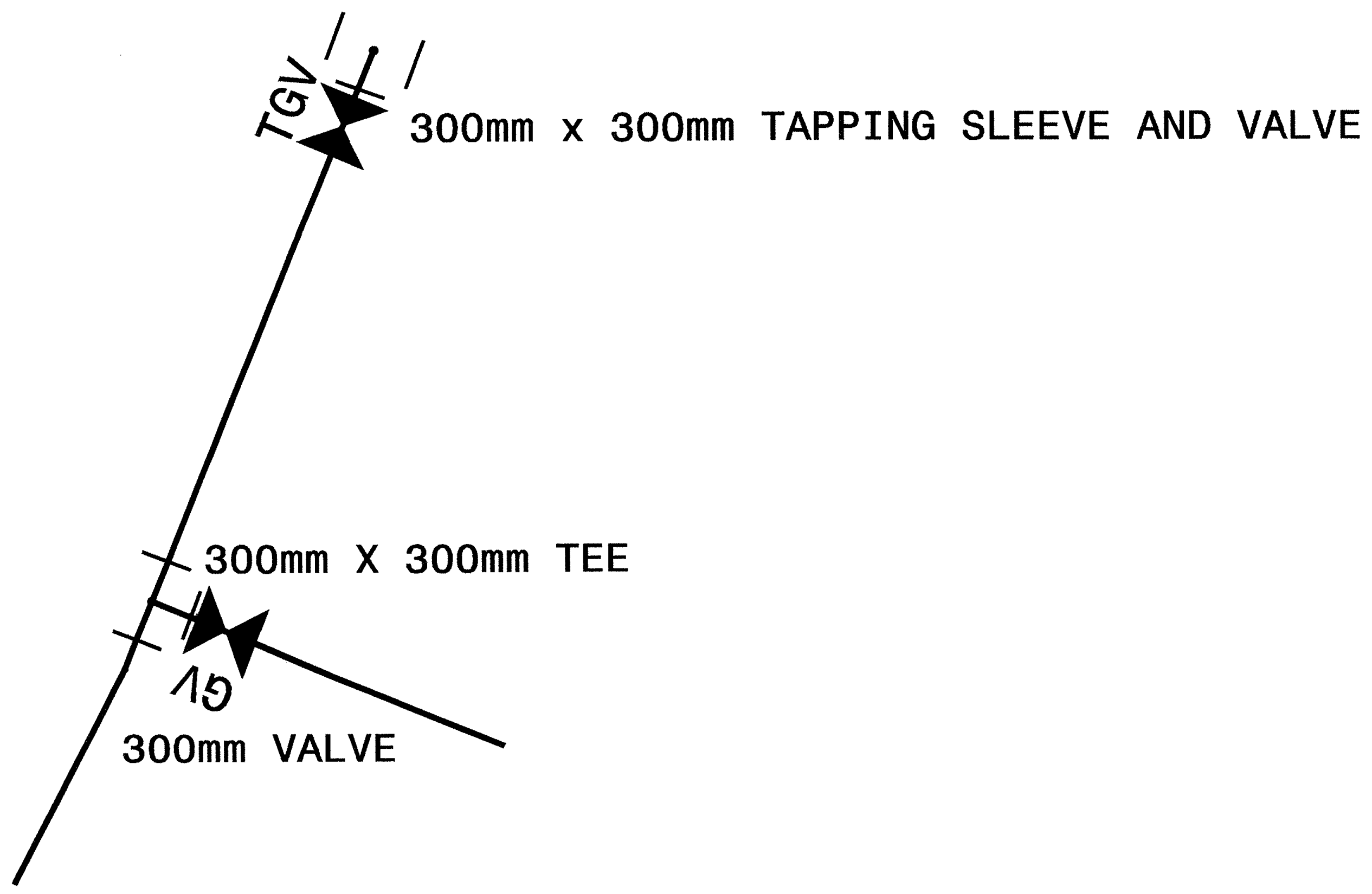
INSET 10 N.T.S.


THRUST COLLAR
90° BEND
PLUG
150mm VALVE
GV
90° BEND

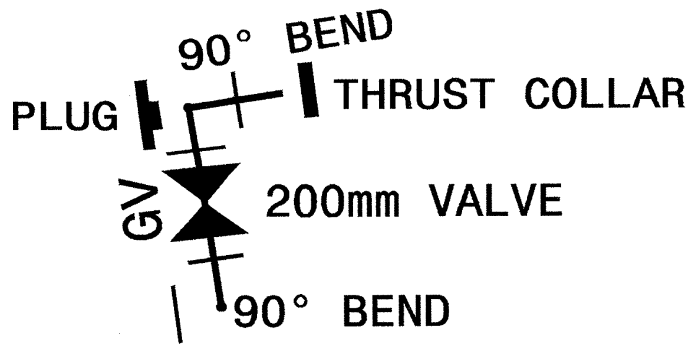
INSET 11 N.T.S.


PLUG
90° BEND
THRUST COLLAR
45° BEND
GV
200mm VALVE
45° BEND

INSET 12 N.T.S.


TGV
300mm x 300mm TAPPING SLEEVE AND VALVE
300mm X 300mm TEE
GV
300mm VALVE

INSET 13 N.T.S.


90° BEND
PLUG
THRUST COLLAR
GV
200mm VALVE
90° BEND

METRIC

0
SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-3A

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)250-4128
FAX:(919)250-4119

16832
JAMES S. MCKEE
James S. McKee
8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

10-AUG-2012 15:10
R:\Utilities\Rdy_Ut\Proj\R2241A_Ut_Title_UC1_psh.dgn
jnigro AT UCU258653

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-4

METRIC

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

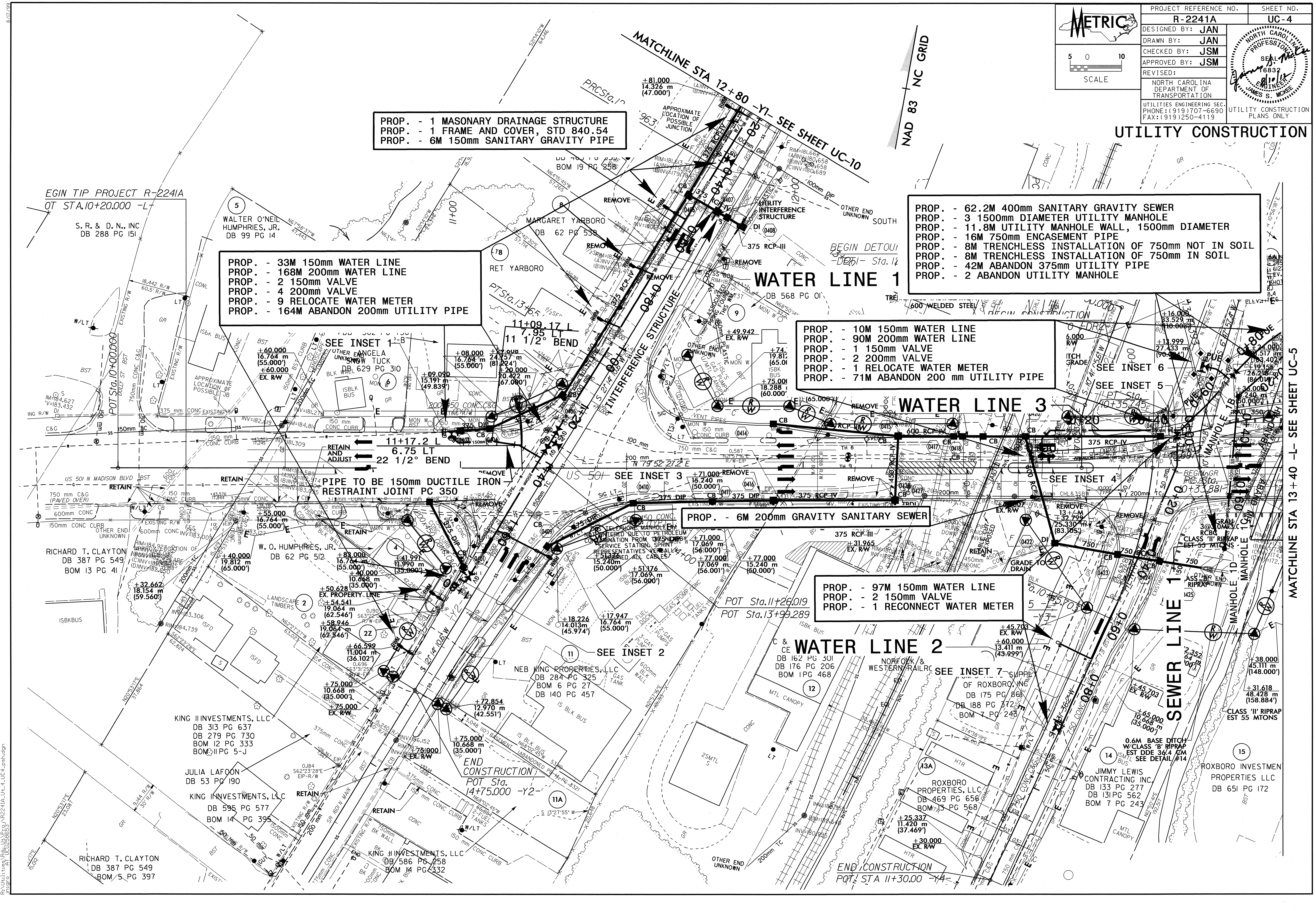
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16832 JAMES S. MCKEE
James S. McKee
8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

5 0 10
SCALE

UTILITY CONSTRUCTION


MATCHLINE STA 12+80 -Y1- SEE SHEET UC-10
NAD 83 NC GRID
MATCHLINE STA 13+40 -L- SEE SHEET UC-5
PROP. - 1 MASONARY DRAINAGE STRUCTURE
PROP. - 1 FRAME AND COVER, STD 840.54
PROP. - 6M 150mm SANITARY GRAVITY PIPE
PROP. - 33M 150mm WATER LINE
PROP. - 168M 200mm WATER LINE
PROP. - 2 150mm VALVE
PROP. - 4 200mm VALVE
PROP. - 9 RELOCATE WATER METER
PROP. - 164M ABANDON 200mm UTILITY PIPE
PROP. - 62.2M 400mm SANITARY GRAVITY SEWER
PROP. - 3 1500mm DIAMETER UTILITY MANHOLE
PROP. - 11.8M UTILITY MANHOLE WALL, 1500mm DIAMETER
PROP. - 16M 750mm ENCASEMENT PIPE
PROP. - 8M TRENCHLESS INSTALLATION OF 750mm NOT IN SOIL
PROP. - 8M TRENCHLESS INSTALLATION OF 750mm IN SOIL
PROP. - 42M ABANDON 375mm UTILITY PIPE
PROP. - 2 ABANDON UTILITY MANHOLE
PROP. - 10M 150mm WATER LINE
PROP. - 90M 200mm WATER LINE
PROP. - 1 150mm VALVE
PROP. - 2 200mm VALVE
PROP. - 1 RELOCATE WATER METER
PROP. - 71M ABANDON 200 mm UTILITY PIPE
PROP. - 6M 200mm GRAVITY SANITARY SEWER
PROP. - 97M 150mm WATER LINE
PROP. - 2 150mm VALVE
PROP. - 1 RECONNECT WATER METER
WATER LINE 1
WATER LINE 2
WATER LINE 3
SEWER LINE 1
INTERFERENCE STRUCTURE
UTILITY INTERFERENCE STRUCTURE
11+09.17 L
7.95 LT
11 1/2° BEND
11+17.2 L
6.75 LT
22 1/2° BEND
RETAIN AND ADJUST
PIPE TO BE 150mm DUCTILE IRON
RESTRAINT JOINT PC 350
SEE INSET 1
SEE INSET 2
SEE INSET 3
SEE INSET 4
SEE INSET 5
SEE INSET 6
SEE INSET 7
MANHOLE 1B
MANHOLE 1C
MANHOLE 1D
BEGIN TIP PROJECT R-2241A
POT STA.10+20.000 -L-
POT Sta.10+00.000
POT Sta.11+26.019
POT Sta.13+99.289
END CONSTRUCTION
POT Sta. 14+75.000 -Y2-
END CONSTRUCTION
POT STA 11+30.00 -Y4-
BEGIN DETOUR
BEGIN CONSTRUCTION
US 501 N MADISON BLVD
US 501
N 79°52'27.2 E
S 21°14'06"W
S.R. & D.N., INC
DB 288 PG 151
WALTER O'NEIL HUMPHRIES, JR.
DB 99 PG 14
MARGARET YARBORO
DB 62 PG 539
RET YARBORO
ANGELA SNOW TUCK
DB 629 PG 310
RICHARD T. CLAYTON
DB 387 PG 549
BOM 13 PG 41
W. O. HUMPHRIES, JR.
DB 62 PG 512
KING II INVESTMENTS, LLC
DB 313 PG 637
DB 279 PG 730
BOM 12 PG 333
BOM II PG 5-J
JULIA LAFOON
DB 53 PG 190
KING II INVESTMENTS, LLC
DB 595 PG 577
BOM 14 PG 395
RICHARD T. CLAYTON
DB 387 PG 549
BOM 5 PG 397
KING II INVESTMENTS, LLC
DB 586 PG 258
BOM 14 PG 332
NEB KING PROPERTIES, LLC
DB 284 PG 325
BOM 6 PG 27
DB 140 PG 457
DB 162 PG 301
DB 176 PG 206
BOM 1 PG 468
NORFOLK & WESTERN RAILROAD
OF ROXBORO, INC
DB 175 PG 861
DB 188 PG 372
BOM 7 PG 243
ROXBORO PROPERTIES, LLC
DB 469 PG 656
BOM 13 PG 568
JIMMY LEWIS CONTRACTING INC.
DB 133 PG 277
DB 131 PG 562
BOM 7 PG 243
ROXBORO INVESTMENT PROPERTIES LLC
DB 651 PG 172
DB 568 PG 01
TELEPHONE MANHOLE IS INFESTED DUE TO PETROLEUM CONTAMINATION FROM SERVICE STATION. SPRINT REPRESENTATIVES WILL REPLACE ALL CABLES.
CLASS 'II' RIPRAP EST 55 MTONS
0.6M BASE DITCH W/CLASS 'B' RIPRAP EST DDE 36.4 CM SEE DETAIL #14
APPROXIMATE LOCATION OF POSSIBLE JUNCTION
OTHER END UNKNOWN
REMOVE
RETAIN
375 RCP-IV
375 RCP-III
375 DIP
600 RCP-IV
600 WELDED STEEL
750 mm C&G
150 mm CONC CURB
ISBK BUS
ISFD
MTL CANOPY
GAS PUMPS
GRADE DRAIN
+81.000 14.326 m (47.000')
+60.000 16.764 m (55.000') EX. R/W
+55.000 16.764 m (55.000')
+40.000 19.812 m (65.000')
+75.000 10.668 m (35.000') EX. R/W
+71.000 17.069 m (56.000')
+77.000 15.240 m (50.000')
+38.000 45.111 m (148.000')
+31.618 48.428 m (158.884')
+65.000 10.668 m (35.000')
+45.703 EX. R/W
+25.337 11.420 m (37.469')
+30.000 EX. R/W

METRIC

5 0 10
SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-5

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

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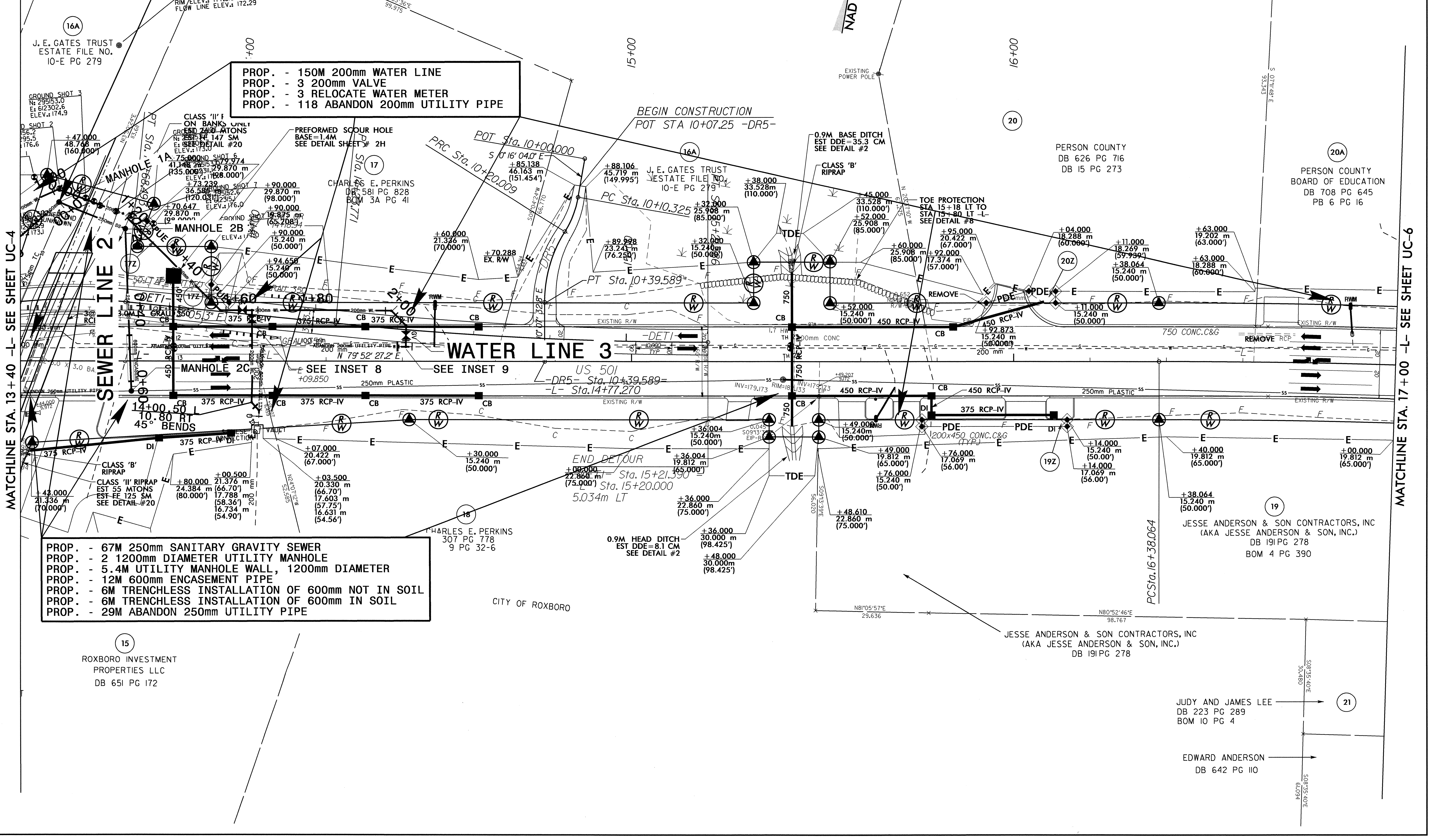
PHONE:(919)707-6690
FAX:(919)250-4119

JAMES S. MCKEE 16832 8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION



PROP. - 13.6M 400mm SANITARY GRAVITY SEWER
PROP. - 1 1500mm DIAMETER UTILITY MANHOLE
PROP. - 3.3M UTILITY MANHOLE WALL, 1500mm DIAMETER
PROP. - 29M ABANDON 375mm UTILITY PIPE

PROP. - 150M 200mm WATER LINE
PROP. - 3 200mm VALVE
PROP. - 3 RELOCATE WATER METER
PROP. - 118 ABANDON 200mm UTILITY PIPE

PROP. - 67M 250mm SANITARY GRAVITY SEWER
PROP. - 2 1200mm DIAMETER UTILITY MANHOLE
PROP. - 5.4M UTILITY MANHOLE WALL, 1200mm DIAMETER
PROP. - 12M 600mm ENCASEMENT PIPE
PROP. - 6M TRENCHLESS INSTALLATION OF 600mm NOT IN SOIL
PROP. - 6M TRENCHLESS INSTALLATION OF 600mm IN SOIL
PROP. - 29M ABANDON 250mm UTILITY PIPE

MATCHLINE STA. 13+40 -L- SEE SHEET UC-4
MATCHLINE STA. 17+00 -L- SEE SHEET UC-6
NAD 83 NC GRID
SEWER LINE 2
WATER LINE 3
MANHOLE 1A
MANHOLE 2B
MANHOLE 2C
SEE INSET 8
SEE INSET 9
US 501
BEGIN CONSTRUCTION
POT STA 10+07.25 -DR5-
POT Sta. 10+00.000
PRC Sta. 10+20.009
PC Sta. 10+10.325
PT Sta. 10+39.589
-DR5- Sta. 10+39.589=
-L- Sta.14+77.270
END DETOUR
Sta. 15+20.000
5.034m LT
N 79°52'27.2" E
14+00.50 L
10.80 RT
45° BENDS
SMH
RIM ELEV.: 177.216
FLOW LINE ELEV.: 172.29
J. E. GATES TRUST
ESTATE FILE NO.
10-E PG 279
CHARLES E. PERKINS
DB 581 PG 828
BOM 3A PG 41
CHARLES E. PERKINS
307 PG 778
9 PG 32-6
PERSON COUNTY
DB 626 PG 716
DB 15 PG 273
PERSON COUNTY
BOARD OF EDUCATION
DB 708 PG 645
PB 6 PG 16
JESSE ANDERSON & SON CONTRACTORS, INC
(AKA JESSE ANDERSON & SON, INC.)
DB 191 PG 278
BOM 4 PG 390
CITY OF ROXBORO
ROXBORO INVESTMENT
PROPERTIES LLC
DB 651 PG 172
JUDY AND JAMES LEE
DB 223 PG 289
BOM 10 PG 4
EDWARD ANDERSON
DB 642 PG 110
16A
17
17Z
18
19
19Z
20
20A
20Z
21
15
EXISTING POWER POLE
CLASS 'B' RIPRAP
CLASS 'II' RIPRAP
EST 55 MTONS
EST FF 125 SM
SEE DETAIL #20
PREFORMED SCOUR HOLE
BASE=1.4M
SEE DETAIL SHEET # 2H
0.9M BASE DITCH
EST DDE=35.3 CM
SEE DETAIL #2
0.9M HEAD DITCH
EST DDE=8.1 CM
SEE DETAIL #2
TOE PROTECTION
STA. 15+18 LT TO
STA. 15+80 LT -L-
SEE DETAIL #8
REMOVE
REMOVE RCP
375 RCP-IV
450 RCP-IV
250mm PLASTIC
750 CONC.C&G
1200x450 CONC.C&G (TYP.)
EXISTING R/W
TDE
PDE
CB
DI
15+00
16+00
PCSta.16+38.064
N80°05'57"E 29.636
N80°52'46"E 98.767

10-AUG-2012 15:13
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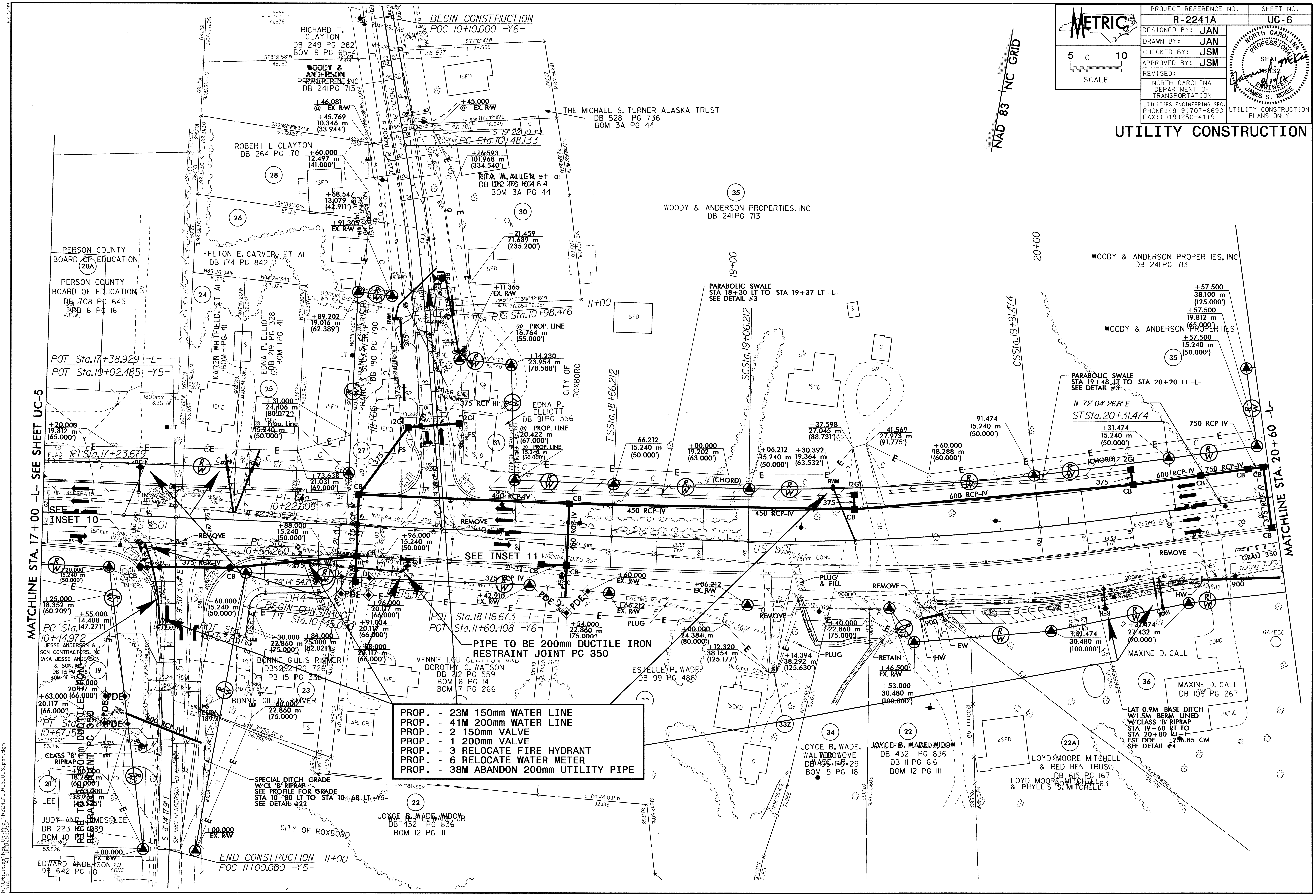
jnigro AT UCU258653


BEGIN CONSTRUCTION
POC 10+10.000 -Y6-
RICHARD T. CLAYTON
DB 249 PG 282
BOM 9 PG 65-4
WOODY & ANDERSON PROPERTIES, INC
DB 241 PG 713
THE MICHAEL S. TURNER ALASKA TRUST
DB 528 PG 736
BOM 3A PG 44
ROBERT L CLAYTON
DB 264 PG 170
RITA W. ALLEN et al
BOM 3A PG 44
WOODY & ANDERSON PROPERTIES, INC
DB 241 PG 713
PERSON COUNTY BOARD OF EDUCATION
PERSON COUNTY BOARD OF EDUCATION
DB 708 PG 645
PB 6 PG 16
FELTON E. CARVER, ET AL
DB 174 PG 842
KAREN WHITFIELD, ET AL
EDNA P. ELLIOTT
DB 219 PG 328
BOM 1 PG 41
FRANCES CARVER
DB 180 PG 790
EDNA P. ELLIOTT
DB 91 PG 356
CITY OF ROXBORO
PC Sta.10+48.133
PT Sta.10+98.476
POT Sta.17+38.929 -L- =
POT Sta.10+02.485 -Y5-
PT Sta.17+23.679
PT 10+22.606
PC Sta. 10+38.260
BEGIN CONSTRUCT
PT Sta.10+45.090
PC Sta. 10+44.972
PT Sta. 10+67.15
POT Sta.18+16.673 -L- =
POT Sta.11+60.408 -Y6-
TS Sta.18+66.212
SCS Sta.19+06.212
CS Sta.19+91.474
ST Sta.20+31.474
N 72° 04' 26.6" E
PARABOLIC SWALE
STA 18+30 LT TO STA 19+37 LT -L-
SEE DETAIL #3
PARABOLIC SWALE
STA 19+48 LT TO STA 20+20 LT -L-
SEE DETAIL #3
WOODY & ANDERSON PROPERTIES, INC
DB 241 PG 713
WOODY & ANDERSON PROPERTIES
SEE INSET 10
SEE INSET 11
US 501
450 RCP-IV
600 RCP-IV
750 RCP-IV
375 RCP-IV
REMOVE
PIPE TO BE 200mm DUCTILE IRON
RESTRAINT JOINT PC 350
VENNIE LOU CLAYTON AND DOROTHY C. WATSON
DB 212 PG 559
BOM 6 PG 14
BOM 7 PG 266
BONNIE GILLIS RIMMER
DB 292 PG 726
PB 15 PG 338
BONNIE GILLIS RIMMER
ESTELLE P. WADE
DB 99 PG 486
JOYCE B. WADE, WALTER R. WADE, JR
DB 432 PG 836
DB 111 PG 616
BOM 12 PG 111
LOYD MOORE MITCHELL & RED HEN TRUST
DB 615 PG 167
LOYD MOORE MITCHELL & PHYLLIS S. MITCHELL
MAXINE D. CALL
MAXINE D. CALL
DB 109 PG 267
LAT 0.9M BASE DITCH W/1.5M BERM LINED W/CLASS 'B' RIPRAP
STA 19+60 RT TO STA 20+80 RT -L-
EST DDE = 256.85 CM
SEE DETAIL #4
JESSE ANDERSON & SON CONTRACTORS, INC (AKA JESSE ANDERSON & SON, INC)
JUDY AND JAMES LEE
DB 223 PG 1089
EDWARD ANDERSON
DB 642 PG 10
SPECIAL DITCH GRADE W/CL 'B' RIPRAP
SEE PROFILE FOR GRADE
STA 10+80 LT TO STA 10+68 LT -Y5-
SEE DETAIL #22
CITY OF ROXBORO
END CONSTRUCTION
POC 11+00.000 -Y5-
MATCHLINE STA. 17+00 -L- SEE SHEET UC-5
MATCHLINE STA. 20+60 -L-
NAD 83 NC GRID
PLUG & FILL
RETAIN
PLUG
GAZEBO
PATIO
CARPORT

PROP. - 23M 150mm WATER LINE
PROP. - 41M 200mm WATER LINE
PROP. - 2 150mm VALVE
PROP. - 1 200mm VALVE
PROP. - 3 RELOCATE FIRE HYDRANT
PROP. - 6 RELOCATE WATER METER
PROP. - 38M ABANDON 200mm UTILITY PIPE

METRIC

5 0 10
SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-6

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

NORTH CAROLINA
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FAX:(919)250-4119

UTILITY CONSTRUCTION PLANS ONLY

JAMES S. MCKEE
8/1/11

UTILITY CONSTRUCTION

10-AUG-2012 15:14
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PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-7

METRIC

5 0 10
SCALE

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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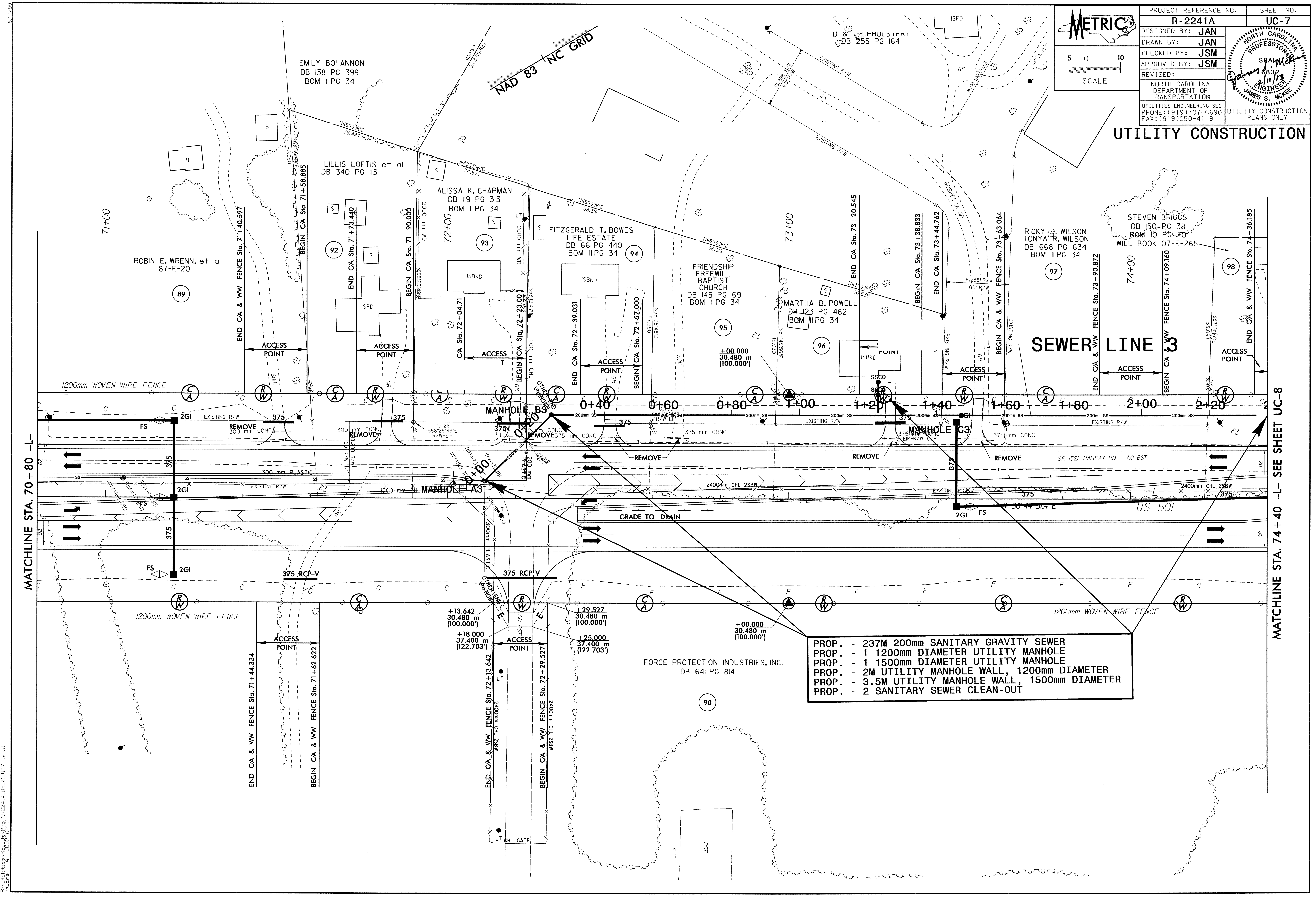
NORTH CAROLINA PROFESSIONAL SEAL 16832 ENGINEER JAMES S. MCKEE
2/11/13

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION


NAD 83 NC GRID
EMILY BOHANNON
DB 138 PG 399
BOM 11 PG 34
LILLIS LOFTIS et al
DB 340 PG 113
ALISSA K. CHAPMAN
DB 119 PG 313
BOM 11 PG 34
FITZGERALD T. BOWES
LIFE ESTATE
DB 661 PG 440
BOM 11 PG 34
FRIENDSHIP
FREEWILL
BAPTIST
CHURCH
DB 145 PG 69
BOM 11 PG 34
MARTHA B. POWELL
DB 123 PG 462
BOM 11 PG 34
D & J UPHOLSTERY
DB 255 PG 164
RICKY D. WILSON
TONYA R. WILSON
DB 668 PG 634
BOM 11 PG 34
STEVEN BRIGGS
DB 150 PG 38
BOM 10 PG 70
WILL BOOK 07-E-265
ROBIN E. WRENN, et al
87-E-20
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
89
90
92
93
94
95
96
97
98
71+00
72+00
73+00
74+00
END C/A & WW FENCE Sta. 71+40.697
BEGIN C/A & WW FENCE Sta. 71+58.885
END C/A Sta. 71+73.440
BEGIN C/A Sta. 71+90.000
C/A Sta. 72+04.71
BEGIN C/A Sta. 72+23.00
END C/A Sta. 72+39.031
BEGIN C/A Sta. 72+57.000
END C/A Sta. 73+20.545
BEGIN C/A Sta. 73+38.833
END C/A Sta. 73+44.762
BEGIN C/A & WW FENCE Sta. 73+63.064
END C/A & WW FENCE Sta. 73+90.872
BEGIN C/A & WW FENCE Sta. 74+09.160
END C/A & WW FENCE Sta. 74+36.185
END C/A & WW FENCE Sta. 71+44.334
BEGIN C/A & WW FENCE Sta. 71+62.622
END C/A & WW FENCE Sta. 72+13.642
BEGIN C/A & WW FENCE Sta. 72+29.527
ACCESS POINT
1200mm WOVEN WIRE FENCE
SEWER LINE 3
MANHOLE A3
MANHOLE B3
MANHOLE C3
0+00
0+20
0+40
0+60
0+80
1+00
1+20
1+40
1+60
1+80
2+00
2+20
200mm SS
EXISTING R/W
REMOVE
300 mm CONC
375 mm CONC
300 mm PLASTIC
200 mm PLASTIC
2400mm CHL 2SBW
1500 mm CHL
2000 mm WD
1200 mm CHL
375
375 RCP-V
2GI
FS
SR 1521 HALIFAX RD 7.0 BST
US 501
GRADE TO DRAIN
GOSPEL LN GR
OTHER END UNKNOWN
SSCO
ISBKD
ISFD
CHL GATE
LT
+13.642 30.480 m (100.000')
+18.000 37.400 m (122.703')
+29.527 30.480 m (100.000')
+25.000 37.400 m (122.703')
+00.000 30.480 m (100.000')
N48°13'16"E
18.288 R/W 60' R/W
MATCHLINE STA. 70+80 -L-
MATCHLINE STA. 74+40 -L- SEE SHEET UC-8

PROP. - 237M 200mm SANITARY GRAVITY SEWER
PROP. - 1 1200mm DIAMETER UTILITY MANHOLE
PROP. - 1 1500mm DIAMETER UTILITY MANHOLE
PROP. - 2M UTILITY MANHOLE WALL, 1200mm DIAMETER
PROP. - 3.5M UTILITY MANHOLE WALL, 1500mm DIAMETER
PROP. - 2 SANITARY SEWER CLEAN-OUT

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-8

METRIC

SCALE 5 0 10

DESIGNED BY: JAN
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APPROVED BY: JSM
REVISED:

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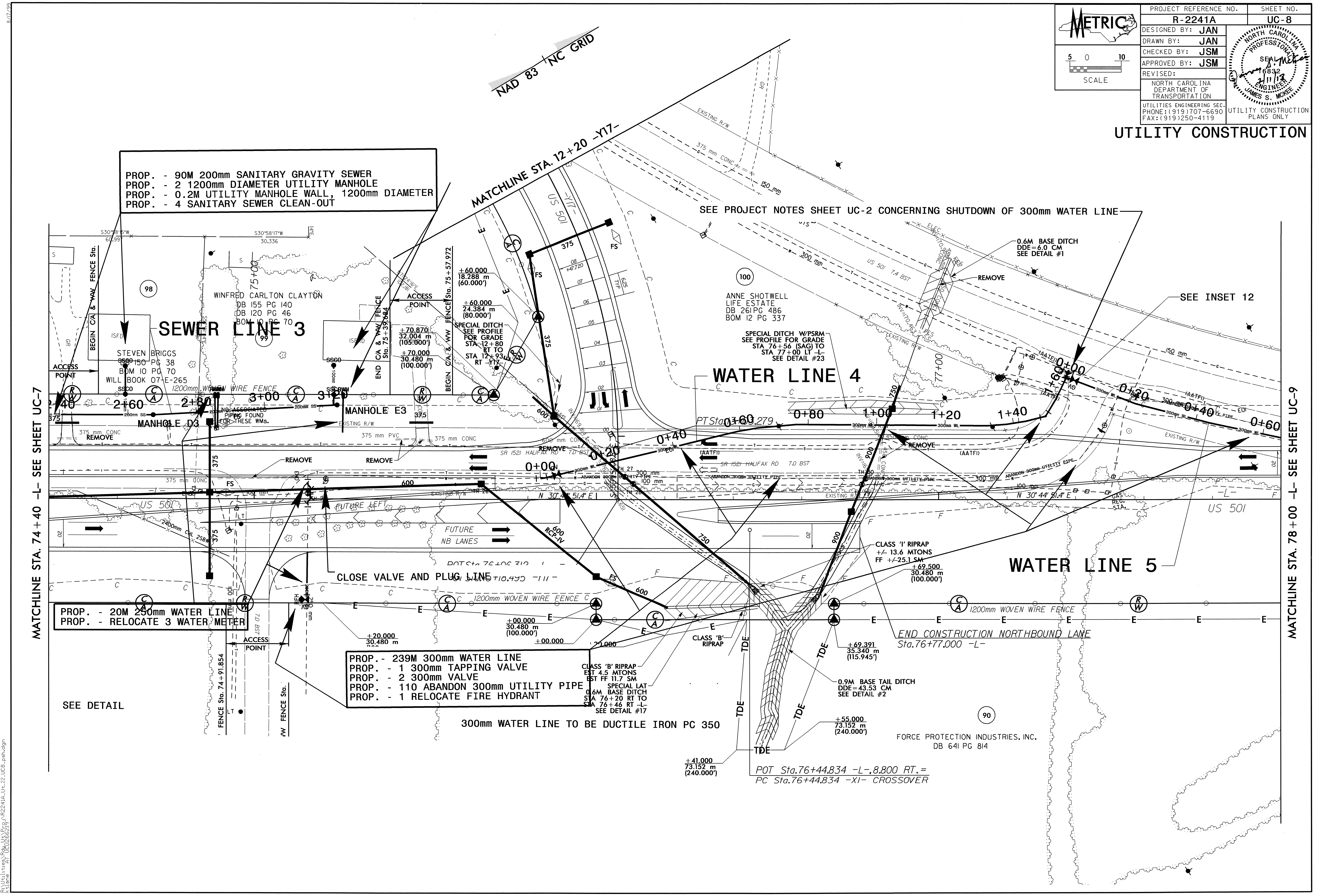
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16832 JAMES S. MCKEE
James S. McKee
2/11/13

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION



PROP. - 90M 200mm SANITARY GRAVITY SEWER
PROP. - 2 1200mm DIAMETER UTILITY MANHOLE
PROP. - 0.2M UTILITY MANHOLE WALL, 1200mm DIAMETER
PROP. - 4 SANITARY SEWER CLEAN-OUT

PROP. - 20M 250mm WATER LINE
PROP. - RELOCATE 3 WATER METER

PROP.- 239M 300mm WATER LINE
PROP. - 1 300mm TAPPING VALVE
PROP. - 2 300mm VALVE
PROP. - 110 ABANDON 300mm UTILITY PIPE
PROP. - 1 RELOCATE FIRE HYDRANT

SEE PROJECT NOTES SHEET UC-2 CONCERNING SHUTDOWN OF 300mm WATER LINE

300mm WATER LINE TO BE DUCTILE IRON PC 350

CLOSE VALVE AND PLUG LINE

SEE DETAIL

NAD 83 NC GRID
MATCHLINE STA. 12+20 -Y17-
MATCHLINE STA. 74+40 -L- SEE SHEET UC-7
MATCHLINE STA. 78+00 -L- SEE SHEET UC-9
SEWER LINE 3
WATER LINE 4
WATER LINE 5
MANHOLE D3
MANHOLE E3
2+40
2+60
2+80
3+00
3+20
0+00
0+20
0+40
0+60
0+80
1+00
1+20
1+40
98
WINFRED CARLTON CLAYTON
DB 155 PG 140
DB 120 PG 46
BOM 10 PG 70
99
STEVEN BRIGGS
DB 150 PG 38
BOM 10 PG 70
WILL BOOK 07-E-265
100
ANNE SHOTWELL
LIFE ESTATE
DB 261 PG 486
BOM 12 PG 337
90
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
ACCESS POINT
BEGIN C/A & WW FENCE Sta.
END C/A & WW FENCE Sta. 75+39.684
BEGIN C/A & WW FENCE Sta. 75+57.972
FENCE Sta. 74+91.854
WW FENCE Sta.
+60.000 18.288 m (60.000')
+60.000 24.384 m (80.000')
+70.870 32.004 m (105.000')
+70.000 30.480 m (100.000')
SPECIAL DITCH SEE PROFILE FOR GRADE STA 12+80 RT TO STA 12+93 RT -Y17-
SPECIAL DITCH W/PSRM SEE PROFILE FOR GRADE STA 76+56 (SAG) TO STA 77+00 LT -L- SEE DETAIL #23
0.6M BASE DITCH DDE=6.0 CM SEE DETAIL #1
SEE INSET 12
REMOVE
NO ASSOCIATED PIPES FOUND FOR THESE WMs.
1200mm WOVEN WIRE FENCE
375 mm CONC
375 mm PVC
200mm SS
EXISTING R/W
SR 1521 HALIFAX RD 7.0 BST
US 501
US 501 7.4 BST
-Y17-
N 30°44' 51.4" E
FUTURE LEFT
FUTURE NB LANES
600 RCP-IV
PT Sta. 0+69.279
POT Sta. 76+06.312 -L- = 0+18.495 -Y17-
CLASS 'I' RIPRAP +/- 13.6 MTONS FF +/-25.1 SM
+69.500 30.480 m (100.000')
+69.391 35.340 m (115.945')
END CONSTRUCTION NORTHBOUND LANE Sta.76+77.000 -L-
0.9M BASE TAIL DITCH DDE=43.53 CM SEE DETAIL #2
+55.000 73.152 m (240.000')
+41.000 73.152 m (240.000')
+20.000 30.480 m
+00.000 30.480 m (100.000')
+00.000
CLASS 'B' RIPRAP EST 4.5 MTONS EST FF 11.7 SM
CLASS 'B' RIPRAP
SPECIAL LAT 0.6M BASE DITCH STA 76+20 RT TO STA 76+46 RT -L- SEE DETAIL #17
TDE
POT Sta.76+44.834 -L-,8.800 RT.= PC Sta.76+44.834 -X1- CROSSOVER
300 mm
150 mm
375
600
750
900
FS
GAS REG. STA.
S30°58'5"W 60.991
S30°58'17"W 30.336

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ktlane AT UCU2662219

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-9

DESIGNED BY: JAN
DRAWN BY: JAN
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APPROVED BY: JSM
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5 0 10
SCALE

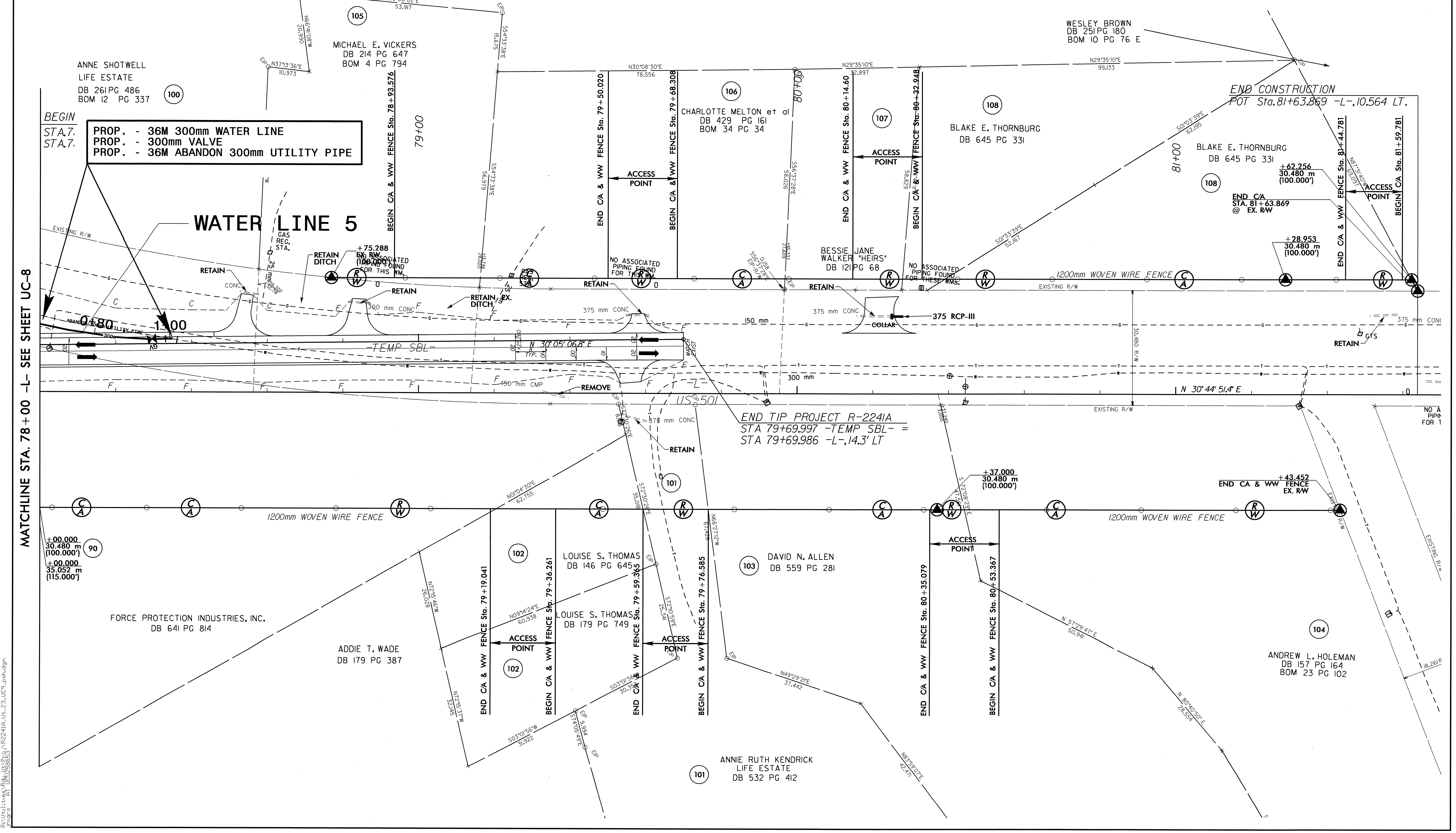
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 6832 JAMES S. MCKEE
James S. McKee 8/10/12

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

NAD 83 NC GRID

PROP. - 36M 300mm WATER LINE
PROP. - 300mm VALVE
PROP. - 36M ABANDON 300mm UTILITY PIPE



WATER LINE 5
MATCHLINE STA. 78+00 -L- SEE SHEET UC-8
BEGIN
STA.7
STA.7
ANNE SHOTWELL
LIFE ESTATE
DB 261 PG 486
BOM 12 PG 337
100
MICHAEL E. VICKERS
DB 214 PG 647
BOM 4 PG 794
105
N36°06'02"E
53.917
N66°41'08"W
20.950
N37°13'36"E
10.973
S54°33'38"E
15.675
S54°33'38"E
56.979
BEGIN C/A & WW FENCE Sta. 78+93.576
79+00
N30°08'30"E
78.556
END C/A & WW FENCE Sta. 79+50.020
ACCESS POINT
BEGIN C/A & WW FENCE Sta. 79+68.308
106
CHARLOTTE MELTON et al
DB 429 PG 161
BOM 34 PG 34
80+00
S56°37'28"E
58.026
N29°35'10"E
32.897
END C/A & WW FENCE Sta. 80+14.60
107
ACCESS POINT
BEGIN C/A & WW FENCE Sta. 80+32.948
BESSIE JANE WALKER "HEIRS"
DB 121 PG 68
NO ASSOCIATED PIPING FOUND FOR THESE WMS.
NO ASSOCIATED PIPING FOUND FOR THIS WM.
108
BLAKE E. THORNBURG
DB 645 PG 331
WESLEY BROWN
DB 251 PG 180
BOM 10 PG 76 E
N29°35'10"E
99.133
END CONSTRUCTION
POT Sta.81+63.869 -L-,10.564 LT.
81+00
S01°03'39"E
62.195
S01°33'39"E
52.67
BLAKE E. THORNBURG
DB 645 PG 331
108
+62.256
30.480 m
(100.000')
END C/A
STA. 81+63.869
@ EX. R/W
ACCESS POINT
END C/A & WW FENCE Sta. 81+44.781
BEGIN C/A Sta. 81+59.781
+28.953
30.480 m
(100.000')
+75.288
EX. R/W
(100.000')
GAS REG. STA.
RETAIN
RETAIN DITCH
RETAIN DITCH EX.
CONC
300 mm CONC
375 mm CONC
375 mm CONC
150 mm
300 mm
375 RCP-III
COLLAR
375 mm CONC
GTS
RETAIN
EXISTING R/W
1200mm WOVEN WIRE FENCE
0+80
1+00
ABANDON 300mm UTILITY PIPE
TEMP SBL
N 30°05'06.8" E
-L-
US 501
N 30°44'51.4" E
30.480 R/W
450 mm CMP
REMOVE
375 mm CONC
RETAIN
END TIP PROJECT R-2241A
STA 79+69.997 -TEMP SBL- =
STA 79+69.986 -L-,14.3' LT
101
N01°04'30"E
62.755
S72°30'25"E
35.018
N16°21'21"W
+37.000
30.480 m
(100.000')
END CA & WW FENCE EX. R/W
+43.452
NO ASSOCIATED PIPING FOUND FOR T
1200mm WOVEN WIRE FENCE
+00.000
30.480 m
(100.000')
+00.000
35.052 m
(115.000')
90
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
ADDIE T. WADE
DB 179 PG 387
N72°15'46"W
26.028
N72°15'37"W
31.45
S03°01'56"W
31.922
102
END C/A & WW FENCE Sta. 79+19.041
ACCESS POINT
BEGIN C/A & WW FENCE Sta. 79+36.261
102
N09°14'24"E
60.938
LOUISE S. THOMAS
DB 146 PG 6455
LOUISE S. THOMAS
DB 179 PG 749
END C/A & WW FENCE Sta. 79+59.365
ACCESS POINT
BEGIN C/A & WW FENCE Sta. 79+76.585
S72°0'59"E
25.341
S03°01'56"W
30.3
EP 9.994
S74°05'49"E
103
DAVID N. ALLEN
DB 559 PG 281
N49°29'21"E
37.442
N83°59'07"E
42.41
ANNIE RUTH KENDRICK
LIFE ESTATE
DB 532 PG 412
101
END C/A & WW FENCE Sta. 80+35.079
ACCESS POINT
BEGIN C/A & WW FENCE Sta. 80+53.367
N 57°29'47" E
50.941
N 80°40'50" E
28.554
104
ANDREW L. HOLEMAN
DB 157 PG 164
BOM 23 PG 102
EXISTING R/W
18.261

8/17/99

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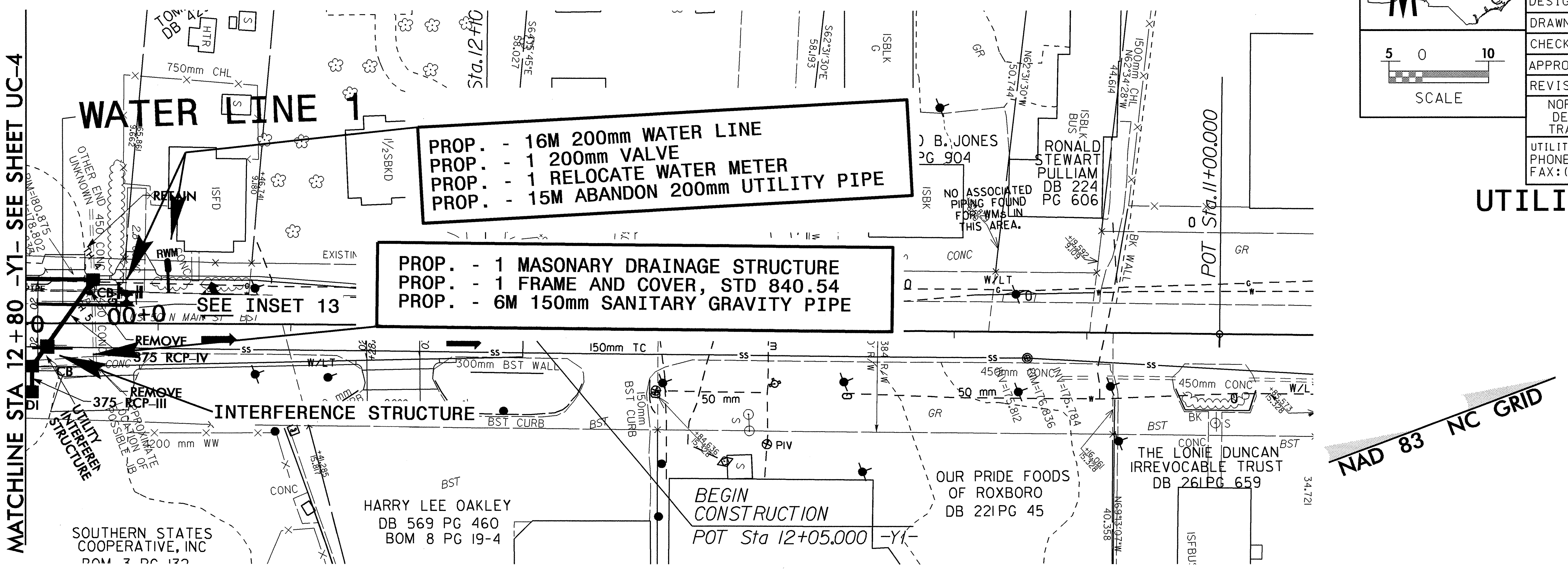
jnigro AT UCU258653


MATCHLINE STA 12+80 -Y1- SEE SHEET UC-4
WATER LINE 1
PROP. - 16M 200mm WATER LINE
PROP. - 1 200mm VALVE
PROP. - 1 RELOCATE WATER METER
PROP. - 15M ABANDON 200mm UTILITY PIPE
PROP. - 1 MASONARY DRAINAGE STRUCTURE
PROP. - 1 FRAME AND COVER, STD 840.54
PROP. - 6M 150mm SANITARY GRAVITY PIPE
SEE INSET 13
RETAIN
RWM
REMOVE
375 RCP-IV
375 RCP-III
INTERFERENCE STRUCTURE
UTILITY INTERFERENCE STRUCTURE
APPROXIMATE LOCATION OF POSSIBLE JB
OTHER END UNKNOWN
450 CONC
CB
DI
1200 mm WW
750mm CHL
HTR
ISFD
1½SBKD
EXISTIN
W/LT
300mm BST WALL
150mm TC
BST CURB
150mm BST CURB
50 mm
PIV
450mm CONC
GR
CONC
BST
Sta.12+10
POT Sta.11+00.000
BEGIN CONSTRUCTION
POT Sta 12+05.000 -Y1-
D B. JONES
PG 904
RONALD STEWART PULLIAM
DB 224 PG 606
NO ASSOCIATED PIPING FOUND FOR WM IN THIS AREA.
ISBLK BUS
ISBK
BK WALL
150mm CHL
SOUTHERN STATES COOPERATIVE, INC
BOM 3 PG 132
HARRY LEE OAKLEY
DB 569 PG 460
BOM 8 PG 19-4
OUR PRIDE FOODS OF ROXBORO
DB 221 PG 45
THE LONIE DUNCAN IRREVOCABLE TRUST
DB 261 PG 659
ISFBU
NAD 83 NC GRID

METRIC

5 0 10
SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-10

DESIGNED BY: JAN
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6832
JAMES S. MCKEE
James S. McKee
8/10/12

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PROJECT REFERENCE NO. R-2241A
SHEET NO. UC-11

METRIC

2 0 4
SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 6832 JAMES S. MCKEE
James S. McKee
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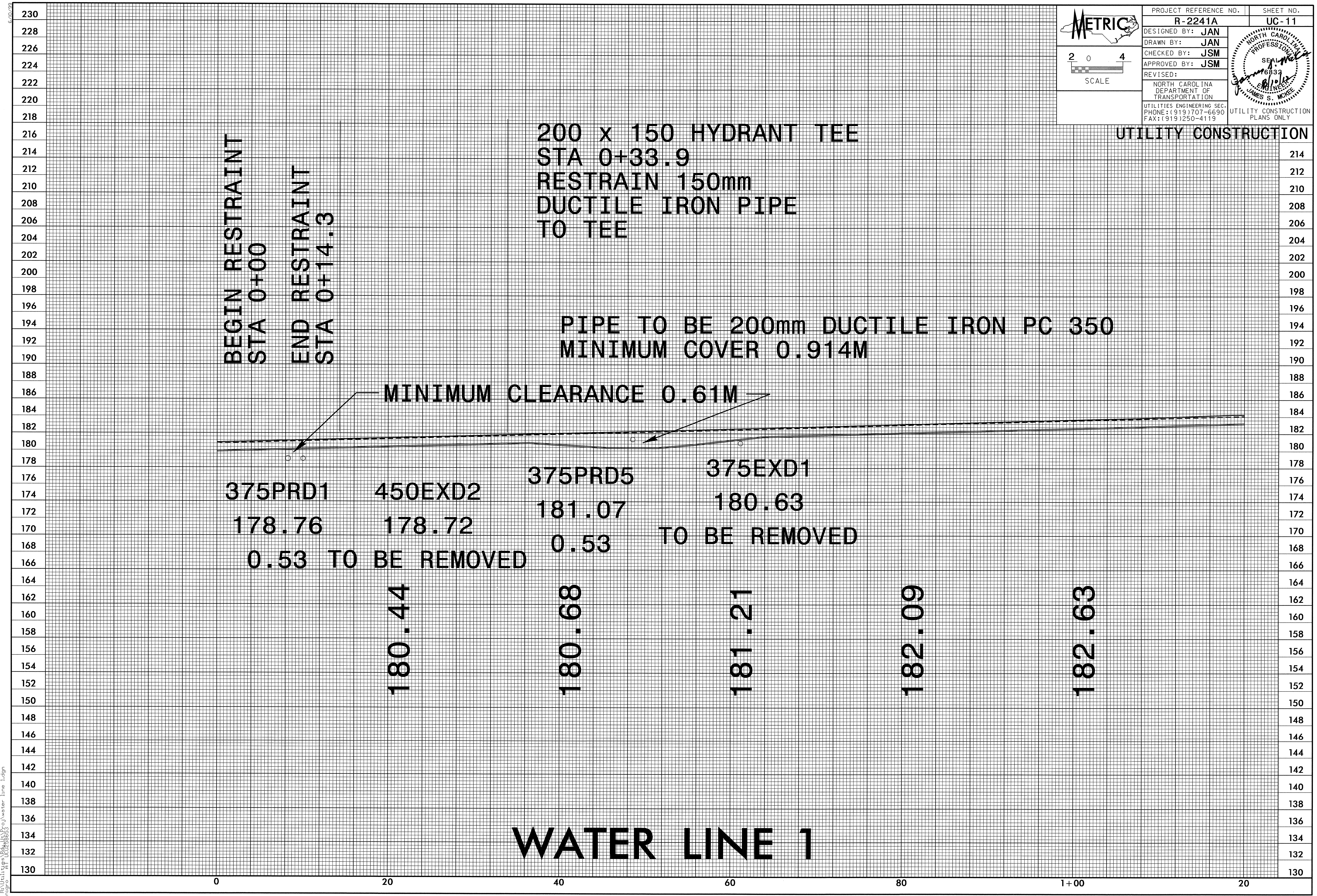

200 x 150 HYDRANT TEE
STA 0+33.9
RESTRAIN 150mm
DUCTILE IRON PIPE
TO TEE
BEGIN RESTRAINT
STA 0+00
END RESTRAINT
STA 0+14.3
PIPE TO BE 200mm DUCTILE IRON PC 350
MINIMUM COVER 0.914M
MINIMUM CLEARANCE 0.61M
375PRD1
178.76
0.53 TO BE REMOVED
450EXD2
178.72
375PRD5
181.07
0.53
375EXD1
180.63
TO BE REMOVED
180.44
180.68
181.21
182.09
182.63
230
228
226
224
222
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
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186
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172
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168
166
164
162
160
158
156
154
152
150
148
146
144
142
140
138
136
134
132
130
0
20
40
60
80
1+00
20

WATER LINE 1

6/10/99

10-AUG-2012 15:17
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jmigro AT UCU258653

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-12

DESIGNED BY: JAN
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2 0 4
SCALE

SEAL 16832
JAMES S. MCKEE
8/10/12

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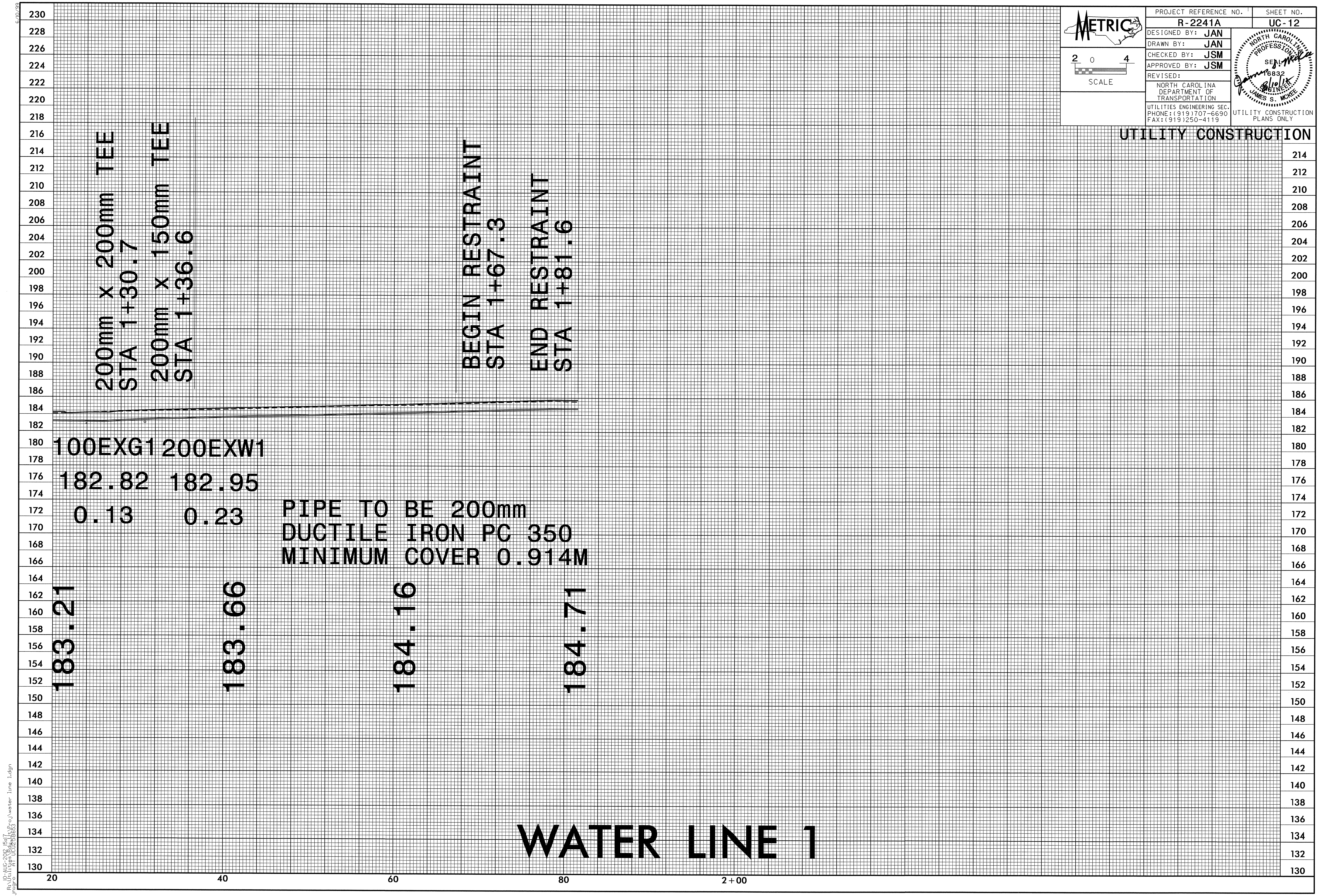

200mm x 200mm TEE
STA 1+30.7
200mm x 150mm TEE
STA 1+36.6
BEGIN RESTRAINT
STA 1+67.3
END RESTRAINT
STA 1+81.6
100EXG1
182.82
0.13
200EXW1
182.95
0.23
183.21
183.66
184.16
184.71
230
228
226
224
222
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
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182
180
178
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174
172
170
168
166
164
162
160
158
156
154
152
150
148
146
144
142
140
138
136
134
132
130
20
40
60
80
2+00

PIPE TO BE 200mm
DUCTILE IRON PC 350
MINIMUM COVER 0.914M

WATER LINE 1

6/10/99

10-AUG-2012 15:17
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jnigro AT UCU258653

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-13

METRIC

2 0 4
SCALE

DESIGNED BY: JAN
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SEAL 6832
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James S. McKee
8/10/12

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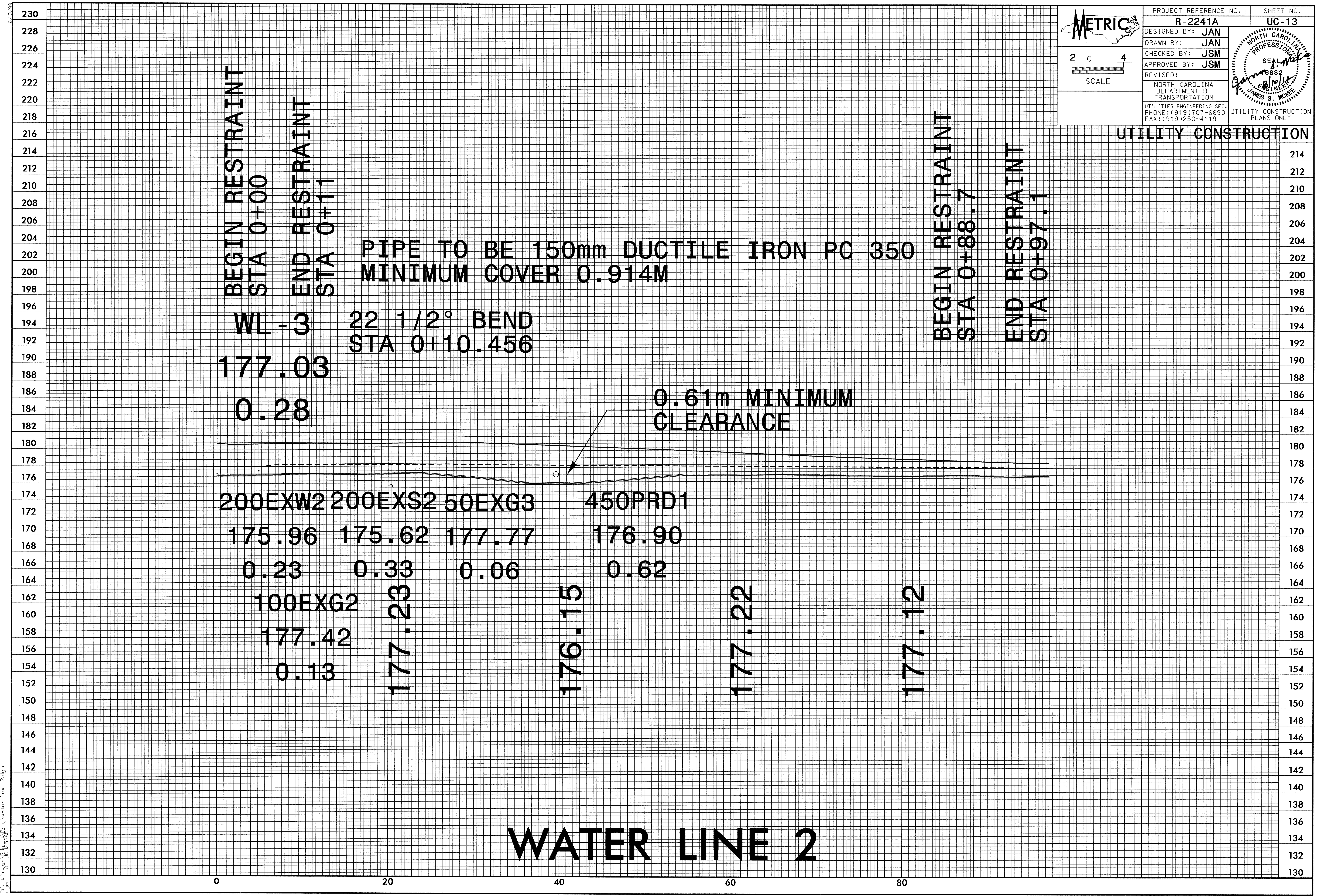
6/0/99
230
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156
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152
150
148
146
144
142
140
138
136
134
132
130
BEGIN RESTRAINT
STA 0+00
END RESTRAINT
STA 0+11
PIPE TO BE 150mm DUCTILE IRON PC 350
MINIMUM COVER 0.914M
WL-3
177.03
0.28
22 1/2° BEND
STA 0+10.456
BEGIN RESTRAINT
STA 0+88.7
END RESTRAINT
STA 0+97.1
0.61m MINIMUM
CLEARANCE
200EXW2
175.96
0.23
200EXS2
175.62
0.33
50EXG3
177.77
0.06
450PRD1
176.90
0.62
100EXG2
177.42
0.13
177.23
176.15
177.22
177.12
0
20
40
60
80

WATER LINE 2

10-AUG-2012 15:18
R:\Utilities\Rdu_Ut\Proj\water line 2.dgn
jnigro AT UCU258653

WATER LINE 3

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-14

DESIGNED BY:	JAN
DRAWN BY:	JAN
CHECKED BY:	JSM
APPROVED BY:	JSM
REVISED:	

NORTH CAROLINA
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TRANSPORTATION

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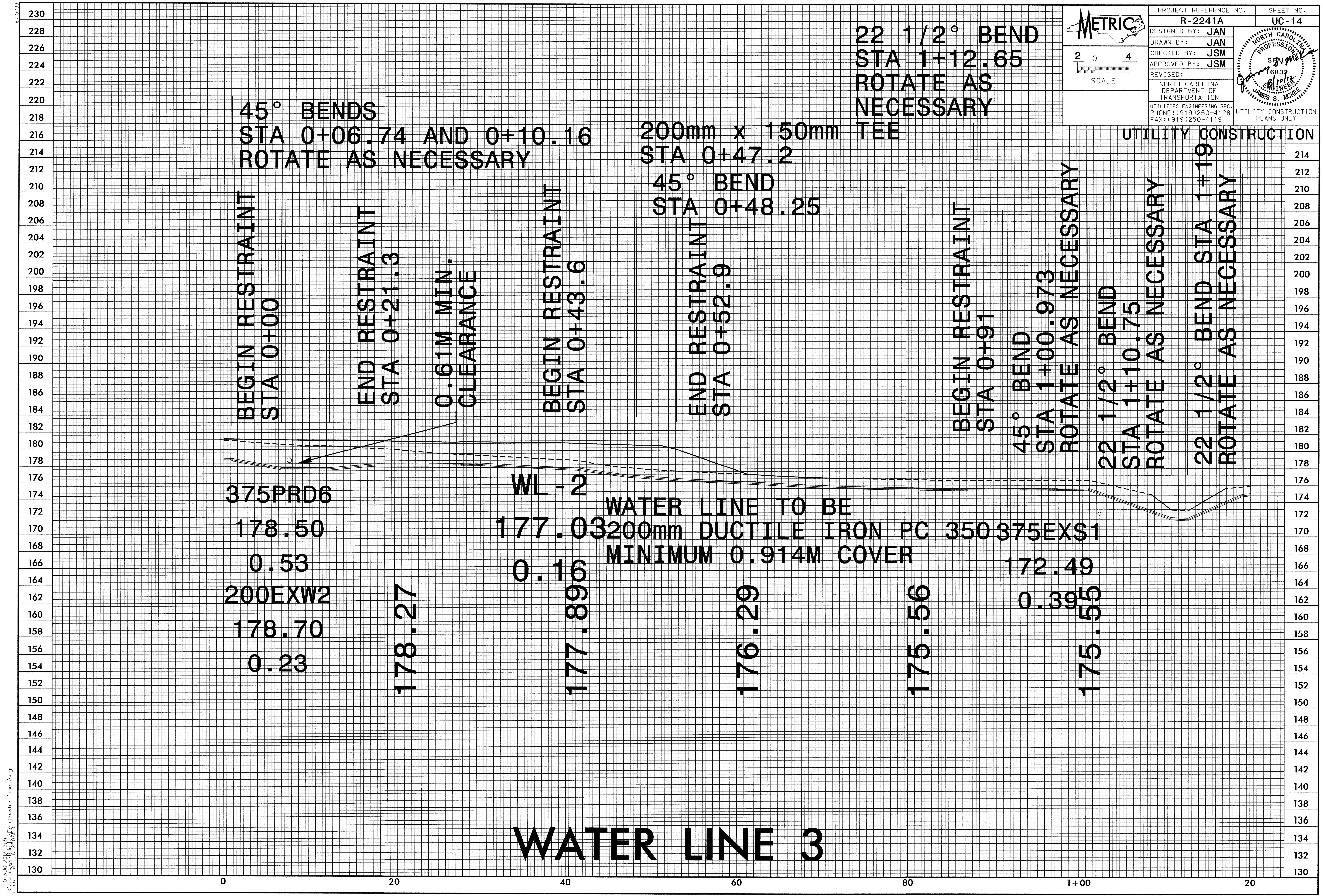
PHONE:(919)250-4128
FAX:(919)250-4119

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16832 JAMES S. MCKEE
James S. McKee 8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION


2 0 4
SCALE
230
228
226
224
222
220
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216
214
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166
164
162
160
158
156
154
152
150
148
146
144
142
140
138
136
134
132
130
45° BENDS
STA 0+06.74 AND 0+10.16
ROTATE AS NECESSARY
200mm x 150mm TEE
STA 0+47.2
45° BEND
STA 0+48.25
22 1/2° BEND
STA 1+12.65
ROTATE AS
NECESSARY
BEGIN RESTRAINT
STA 0+00
END RESTRAINT
STA 0+21.3
0.61M MIN.
CLEARANCE
BEGIN RESTRAINT
STA 0+43.6
END RESTRAINT
STA 0+52.9
BEGIN RESTRAINT
STA 0+91
45° BEND
STA 1+00.973
ROTATE AS NECESSARY
22 1/2° BEND
STA 1+10.75
ROTATE AS NECESSARY
22 1/2° BEND STA 1+19
ROTATE AS NECESSARY
375PRD6
178.50
0.53
200EXW2
178.70
0.23
WL-2
177.03
0.16
WATER LINE TO BE
200mm DUCTILE IRON PC 350
MINIMUM 0.914M COVER
375EXS1
172.49
0.39
178.27
177.89
176.29
175.56
175.55
0
20
40
60
80
1+00
20

6/10/99

10-AUG-2012 15:19
R:\Utilities\Rdu_Ut\Proj\water line 3.dgn
jmigro AT UCU258653

METRIC

2 0 4
SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-15

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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6832
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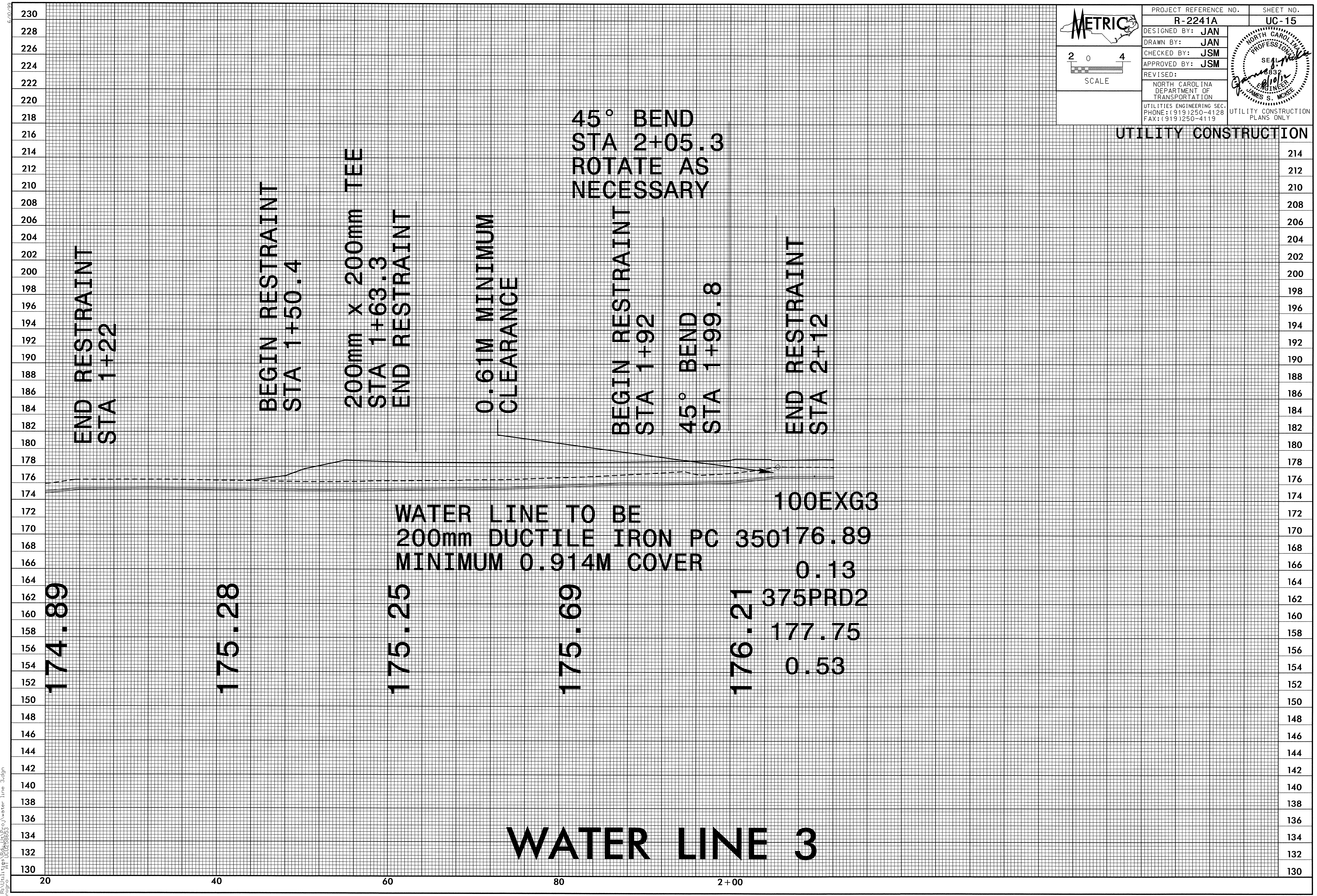
6/20/99
45° BEND
STA 2+05.3
ROTATE AS
NECESSARY
END RESTRAINT
STA 1+22
BEGIN RESTRAINT
STA 1+50.4
200mm x 200mm TEE
STA 1+63.3
END RESTRAINT
0.61M MINIMUM
CLEARANCE
BEGIN RESTRAINT
STA 1+92
45° BEND
STA 1+99.8
END RESTRAINT
STA 2+12
100EXG3
176.89
0.13
375PRD2
177.75
0.53
WATER LINE TO BE
200mm DUCTILE IRON PC 350
MINIMUM 0.914M COVER
174.89
175.28
175.25
175.69
176.21
230
228
226
224
222
220
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204
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132
130
20
40
60
80
2+00

WATER LINE 3

10-AUG-2012 15:19
R:\Utilities\Rdu_Ut\Proj\water line 3.dgn
jnigro AT UCU258653

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-16

METRIC

SCALE 2 0 4

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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6832
JAMES S. McKEE
James S. McKee
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UTILITY CONSTRUCTION
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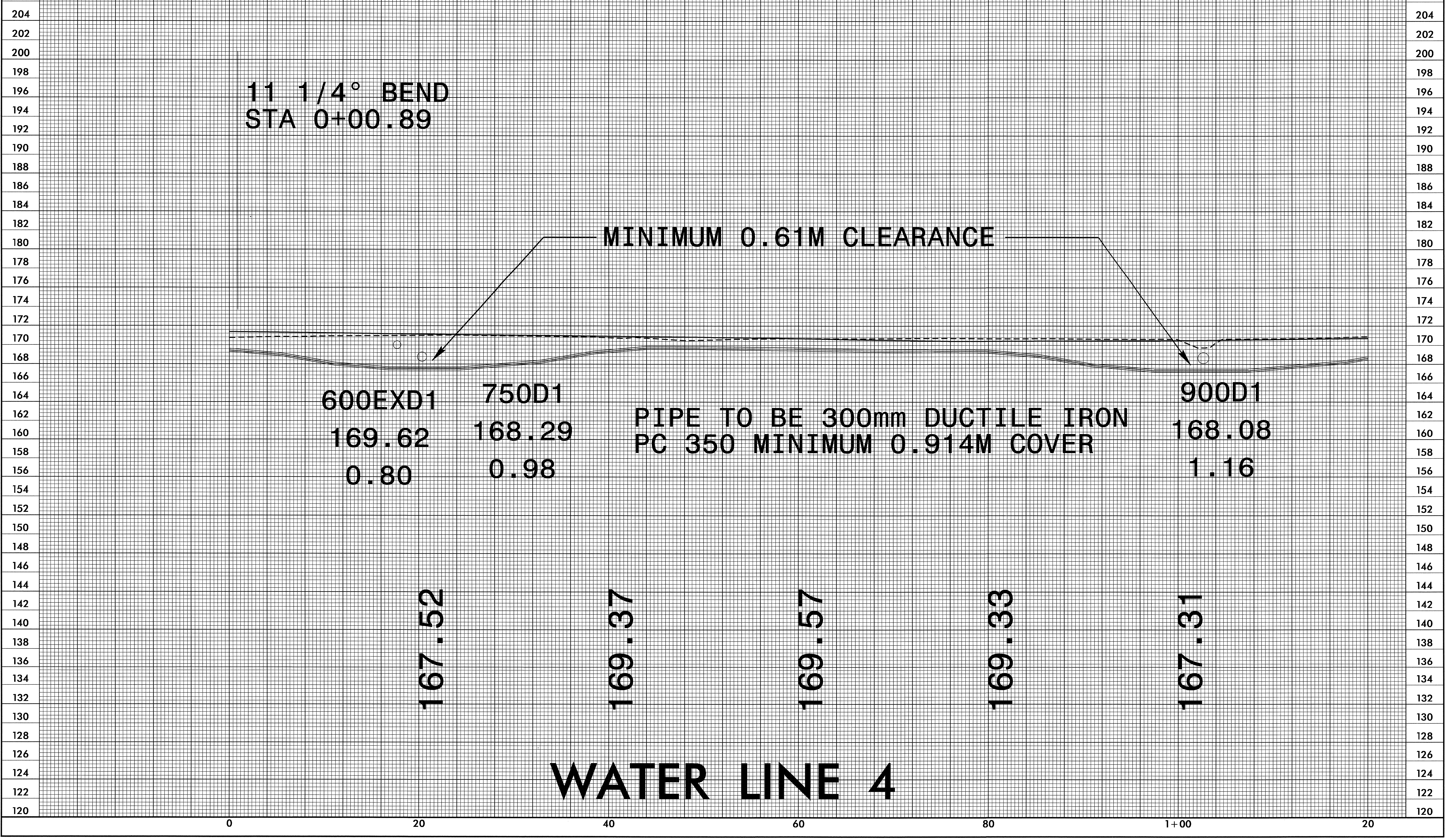

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142
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138
136
134
132
130
128
126
124
122
120
11 1/4° BEND
STA 0+00.89
MINIMUM 0.61M CLEARANCE
600EXD1
169.62
0.80
750D1
168.29
0.98
PIPE TO BE 300mm DUCTILE IRON
PC 350 MINIMUM 0.914M COVER
900D1
168.08
1.16
167.52
169.37
169.57
169.33
167.31
0
20
40
60
80
1+00
20

WATER LINE 4

10-AUG-2012 15:20
R:\Utilities\Rdu_Ut\Proj\water line 4.dgn
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WATER LINE 4

PROJECT REFERENCE NO. R-2241A
SHEET NO. UC-17

METRIC

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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FAX:(919)250-4119

SEAL 16832
JAMES S. MCKEE
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UTILITY CONSTRUCTION
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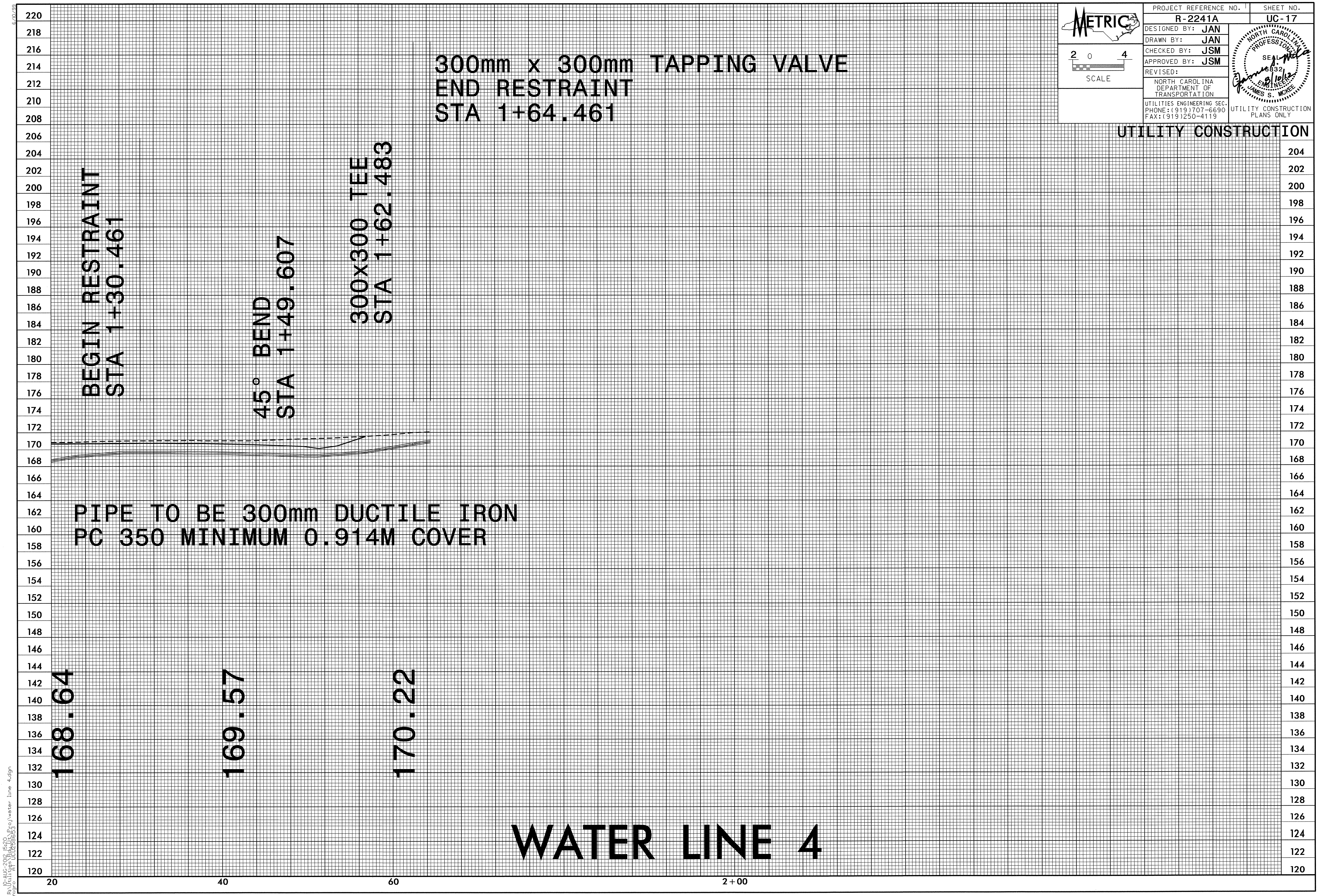
300mm x 300mm TAPPING VALVE
END RESTRAINT
STA 1+64.461
BEGIN RESTRAINT
STA 1+30.461
45° BEND
STA 1+49.607
300x300 TEE
STA 1+62.483
PIPE TO BE 300mm DUCTILE IRON
PC 350 MINIMUM 0.914M COVER
168.64
169.57
170.22
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
188
186
184
182
180
178
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174
172
170
168
166
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152
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126
124
122
120
20
40
60
2+00
2 0 4
SCALE

10-AUG-2012 15:20
R:\Utilities\Rdu_Ut\Proj\water line 4.dgn
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METRIC

SCALE 2 0 4

PROJECT REFERENCE NO.	SHEET NO.
R-2241	UC-18

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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UTILITY CONSTRUCTION
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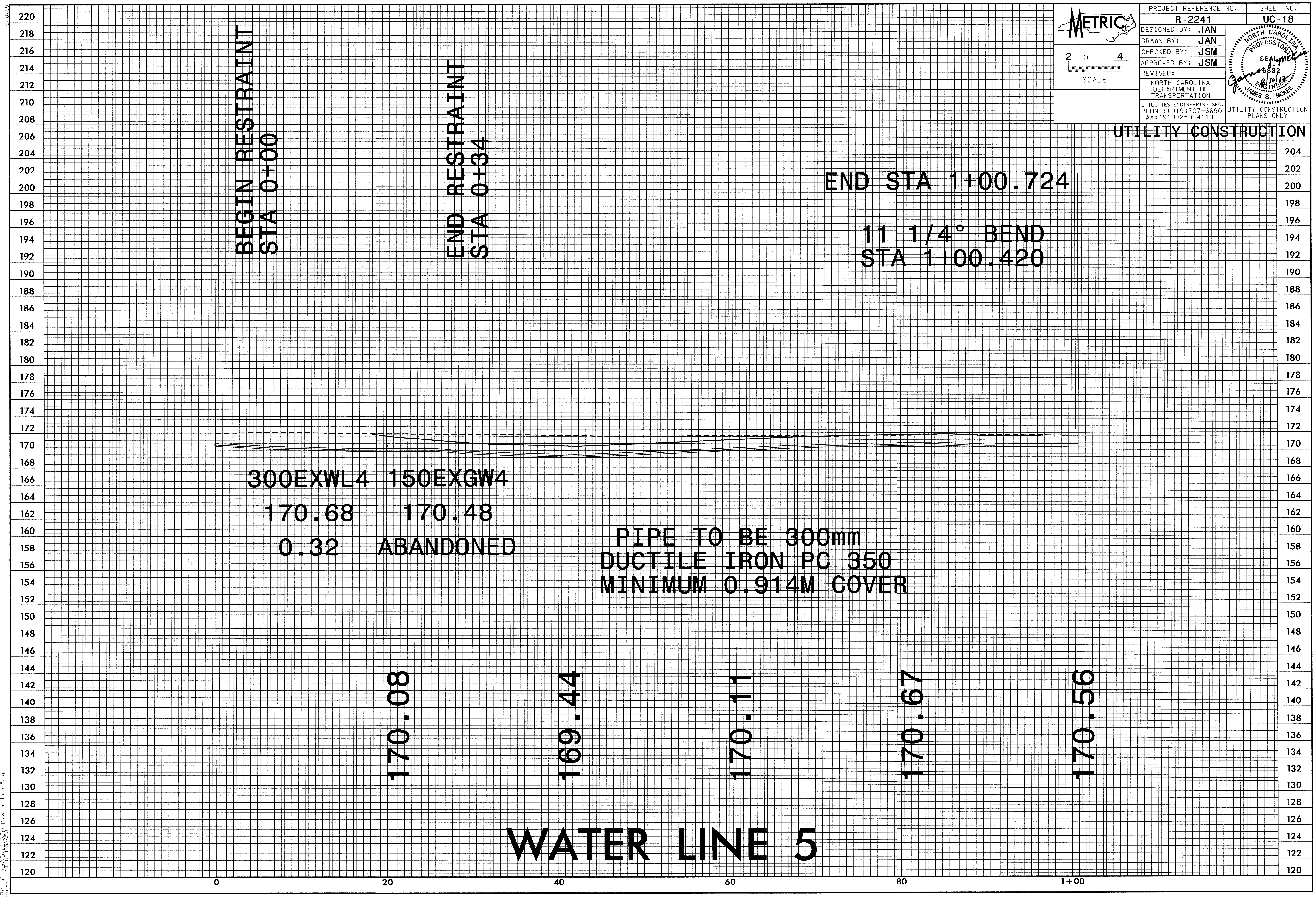
220
218
216
214
212
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206
204
202
200
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186
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182
180
178
176
174
172
170
168
166
164
162
160
158
156
154
152
150
148
146
144
142
140
138
136
134
132
130
128
126
124
122
120
0
20
40
60
80
1+00
170.08
169.44
170.11
170.67
170.56

BEGIN RESTRAINT
STA 0+00

END RESTRAINT
STA 0+34

END STA 1+00.724

11 1/4° BEND
STA 1+00.420

300EXWL4 150EXGW4
170.68 170.48
0.32 ABANDONED

PIPE TO BE 300mm
DUCTILE IRON PC 350
MINIMUM 0.914M COVER

WATER LINE 5

10-AUG-2012 15:21
R:\Utilities\Rdu_Ut\Proj\water line 5.dgn
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PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-19

METRIC

SCALE 2 0 4

DESIGNED BY: JAN
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CHECKED BY: JSM
APPROVED BY: JSM
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JAMES S. MCKEE
SEAL 6832
James S. McKee
8/10/12

UTILITY CONSTRUCTION
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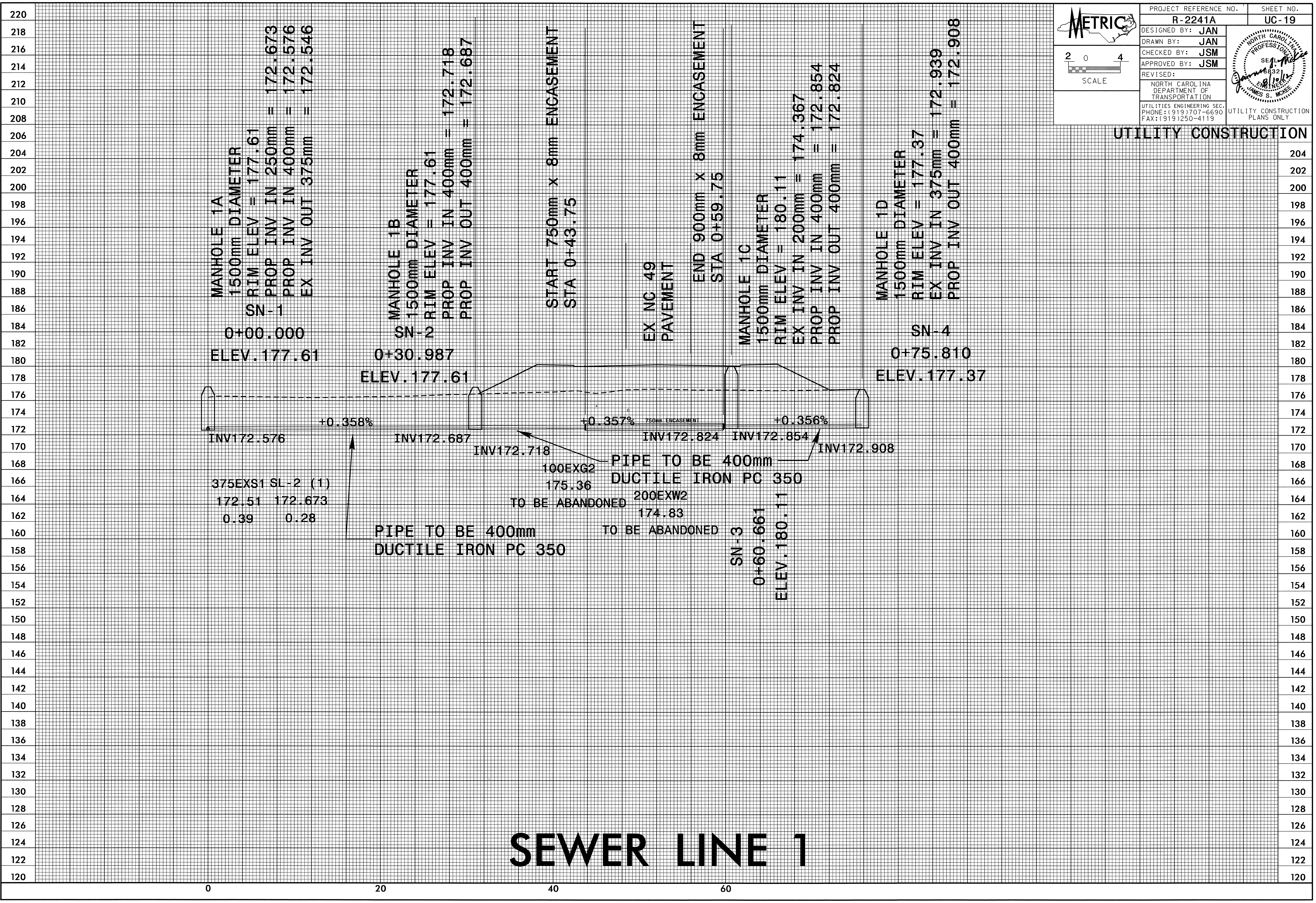
UTILITY CONSTRUCTION


MANHOLE 1A
1500mm DIAMETER
RIM ELEV = 177.61
PROP INV IN 250mm = 172.673
PROP INV IN 400mm = 172.576
EX INV OUT 375mm = 172.546
SN-1
0+00.000
ELEV.177.61
MANHOLE 1B
1500mm DIAMETER
RIM ELEV = 177.61
PROP INV IN 400mm = 172.718
PROP INV OUT 400mm = 172.687
SN-2
0+30.987
ELEV.177.61
START 750mm x 8mm ENCASEMENT
STA 0+43.75
EX NC 49
PAVEMENT
END 900mm x 8mm ENCASEMENT
STA 0+59.75
MANHOLE 1C
1500mm DIAMETER
RIM ELEV = 180.11
EX INV IN 200mm = 174.367
PROP INV IN 400mm = 172.854
PROP INV OUT 400mm = 172.824
MANHOLE 1D
1500mm DIAMETER
RIM ELEV = 177.37
EX INV IN 375mm = 172.939
PROP INV OUT 400mm = 172.908
SN-4
0+75.810
ELEV.177.37
+0.358%
+0.357%
750mm ENCASEMENT
+0.356%
INV172.576
INV172.687
INV172.718
INV172.824
INV172.854
INV172.908
100EXG2
175.36
TO BE ABANDONED
PIPE TO BE 400mm
DUCTILE IRON PC 350
200EXW2
174.83
TO BE ABANDONED
375EXS1 SL-2 (1)
172.51 172.673
0.39 0.28
PIPE TO BE 400mm
DUCTILE IRON PC 350
SN-3
0+60.661
ELEV.180.11
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
188
186
184
182
180
178
176
174
172
170
168
166
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162
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158
156
154
152
150
148
146
144
142
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138
136
134
132
130
128
126
124
122
120
0
20
40
60

SEWER LINE 1

10-AUG-2012 15:22
R:\Utilities\Rdu_Ut\Proj\sewer line 1.dgn
jnigro AT UCU258653

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-20

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
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2 0 4
SCALE

JAMES S. MCKEE
SEAL 16832
8/10/12

UTILITY CONSTRUCTION
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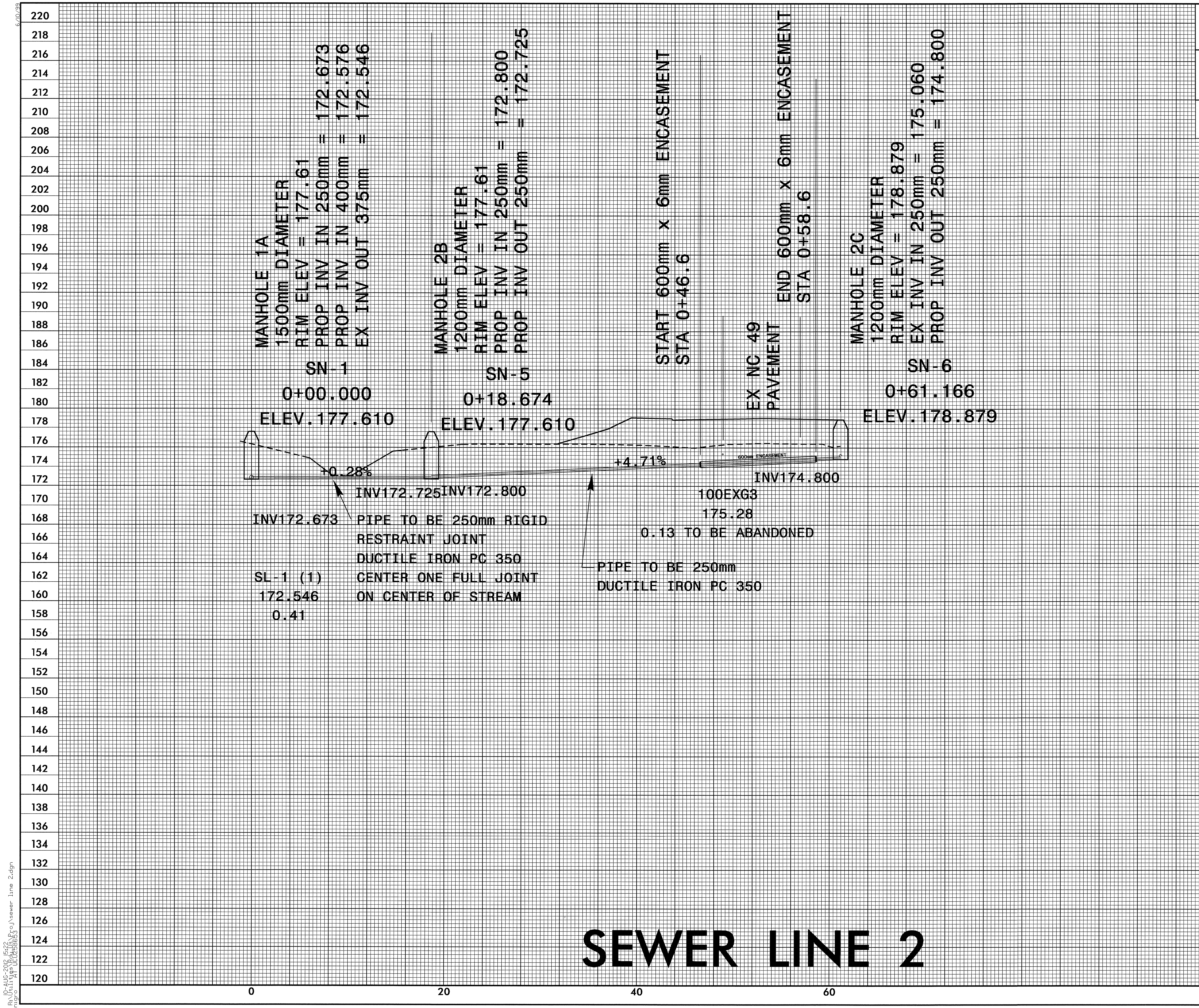
UTILITY CONSTRUCTION


MANHOLE 1A
1500mm DIAMETER
RIM ELEV = 177.61
PROP INV IN 250mm = 172.673
PROP INV IN 400mm = 172.576
EX INV OUT 375mm = 172.546
SN-1
0+00.000
ELEV.177.610
MANHOLE 2B
1200mm DIAMETER
RIM ELEV = 177.61
PROP INV IN 250mm = 172.800
PROP INV OUT 250mm = 172.725
SN-5
0+18.674
ELEV.177.610
START 600mm x 6mm ENCASEMENT
STA 0+46.6
EX NC 49
PAVEMENT
END 600mm x 6mm ENCASEMENT
STA 0+58.6
MANHOLE 2C
1200mm DIAMETER
RIM ELEV = 178.879
EX INV IN 250mm = 175.060
PROP INV OUT 250mm = 174.800
SN-6
0+61.166
ELEV.178.879
+0.28%
+4.71%
600mm ENCASEMENT
INV172.725
INV172.800
INV174.800
INV172.673
100EXG3
175.28
0.13 TO BE ABANDONED
PIPE TO BE 250mm RIGID
RESTRAINT JOINT
DUCTILE IRON PC 350
CENTER ONE FULL JOINT
ON CENTER OF STREAM
PIPE TO BE 250mm
DUCTILE IRON PC 350
SL-1 (1)
172.546
0.41
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
188
186
184
182
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178
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132
130
128
126
124
122
120
0
20
40
60

SEWER LINE 2

10-AUG-2012 15:22
R:\Utilities\Rdu_Ut\Proj\sewer line 2.dgn
jnigro AT UCU258653

METRIC

PROJECT REFERENCE NO. R-2241A

SHEET NO. UC-21

2 0 4
SCALE

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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James S. McKee 8/10/12

UTILITY CONSTRUCTION
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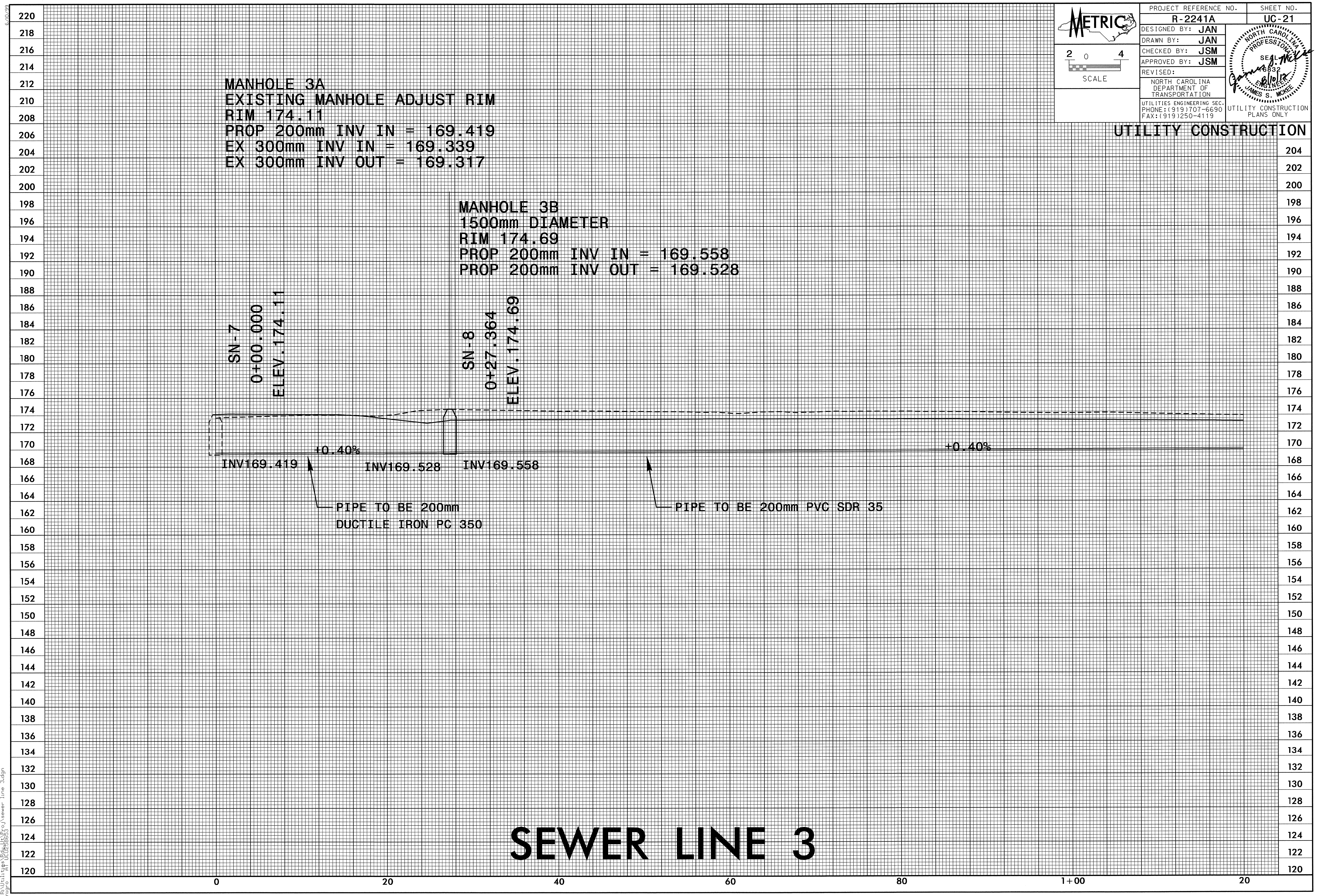
MANHOLE 3A
EXISTING MANHOLE ADJUST RIM
RIM 174.11
PROP 200mm INV IN = 169.419
EX 300mm INV IN = 169.339
EX 300mm INV OUT = 169.317
MANHOLE 3B
1500mm DIAMETER
RIM 174.69
PROP 200mm INV IN = 169.558
PROP 200mm INV OUT = 169.528
SN-7
0+00.000
ELEV.174.11
SN-8
0+27.364
ELEV.174.69
+0.40%
+0.40%
INV169.419
INV169.528
INV169.558
PIPE TO BE 200mm
DUCTILE IRON PC 350
PIPE TO BE 200mm PVC SDR 35
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
188
186
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182
180
178
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174
172
170
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166
164
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142
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136
134
132
130
128
126
124
122
120
0
20
40
60
80
1+00
20

SEWER LINE 3

6/20/99

10-AUG-2012 15:23
R:\Utilities\Rdy_Ut\Proj\sewer line 3.dgn
jnigro AT UCU258653

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-22

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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FAX:(919)250-4119

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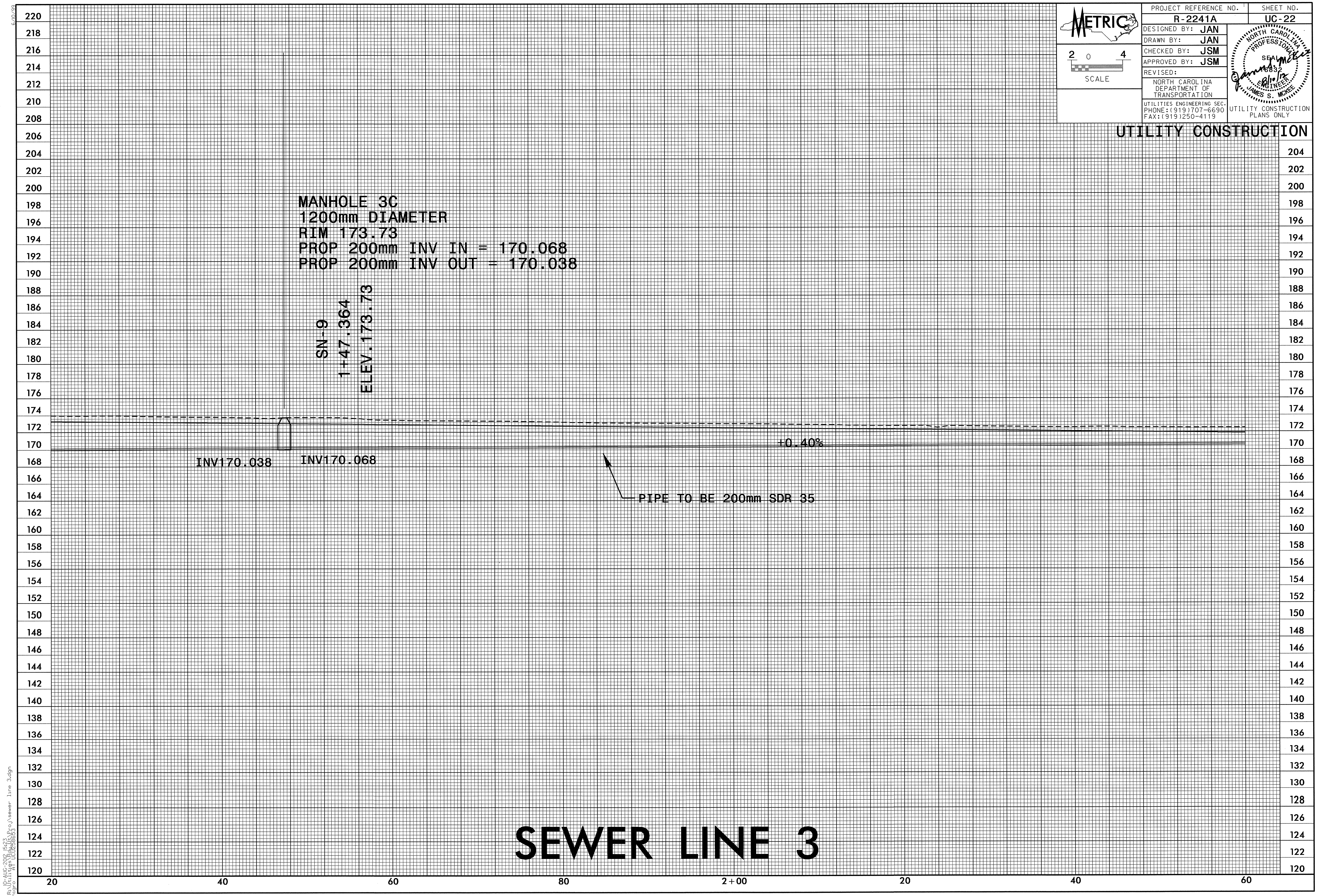
8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

2 0 4
SCALE

UTILITY CONSTRUCTION


6/10/99
MANHOLE 3C
1200mm DIAMETER
RIM 173.73
PROP 200mm INV IN = 170.068
PROP 200mm INV OUT = 170.038
SN.9
1+47.364
ELEV.173.73
INV170.038
INV170.068
+0.40%
PIPE TO BE 200mm SDR 35
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
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186
184
182
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120
20
40
60
80
2+00
20
40
60

SEWER LINE 3

10-AUG-2012 15:23
R:\Utilities\Rdu_Ut\Proj\sewer line 3.dgn
jnigro AT UCU258653

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UC-23

DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: JSM
APPROVED BY: JSM
REVISED:

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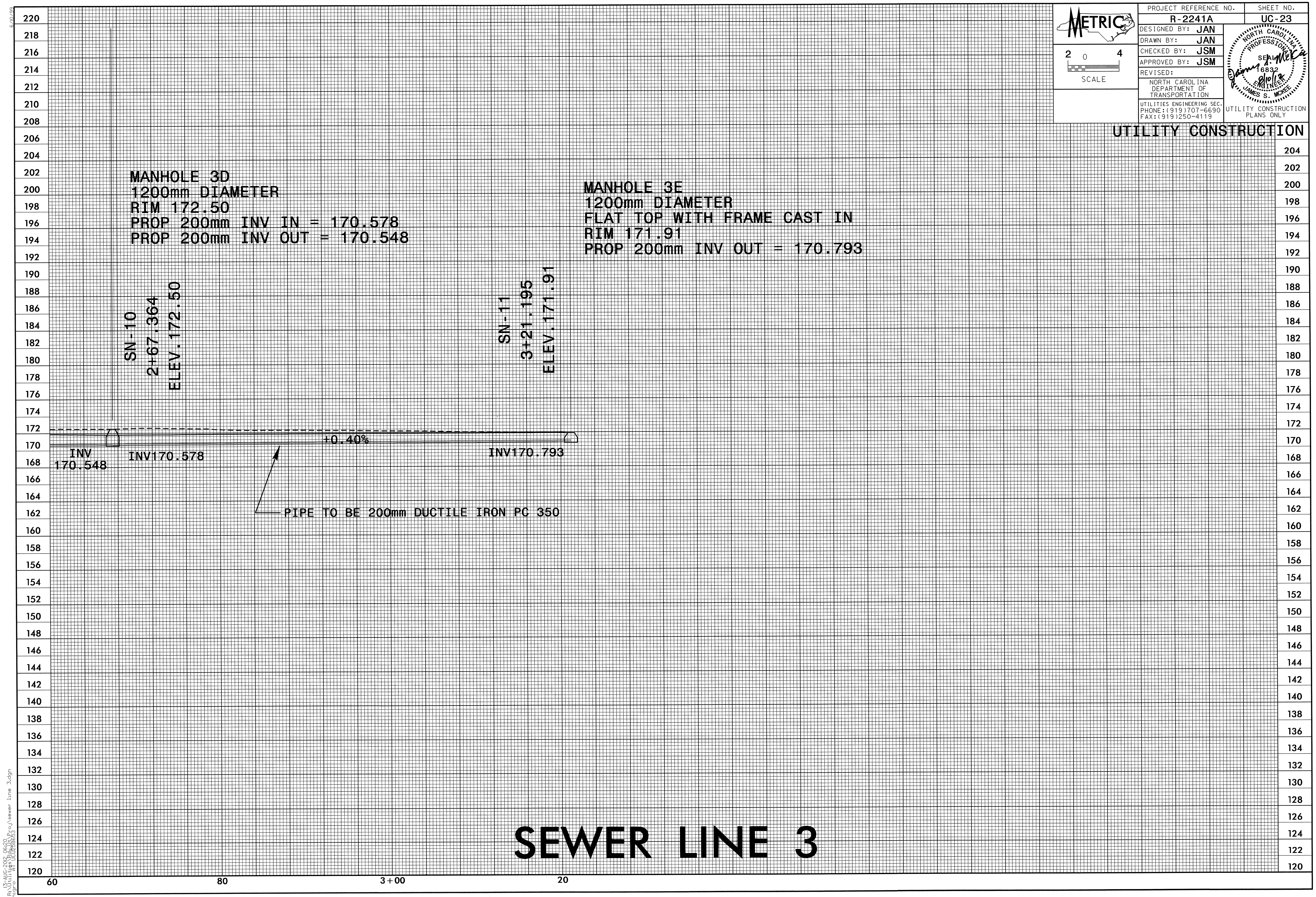
16832
JAMES S. MCKEE
James S. McKee
8/10/12

UTILITY CONSTRUCTION
PLANS ONLY

2 0 4
SCALE

UTILITY CONSTRUCTION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156
154
152
150
148
146
144
142
140
138
136
134
132
130
128
126
124
122
120
MANHOLE 3D
1200mm DIAMETER
RIM 172.50
PROP 200mm INV IN = 170.578
PROP 200mm INV OUT = 170.548
MANHOLE 3E
1200mm DIAMETER
FLAT TOP WITH FRAME CAST IN
RIM 171.91
PROP 200mm INV OUT = 170.793
SN-10
2+67.364
ELEV. 172.50
SN-11
3+21.195
ELEV. 171.91
+0.40%
INV
170.548
INV170.578
INV170.793
PIPE TO BE 200mm DUCTILE IRON PC 350
60
80
3+00
20

SEWER LINE 3

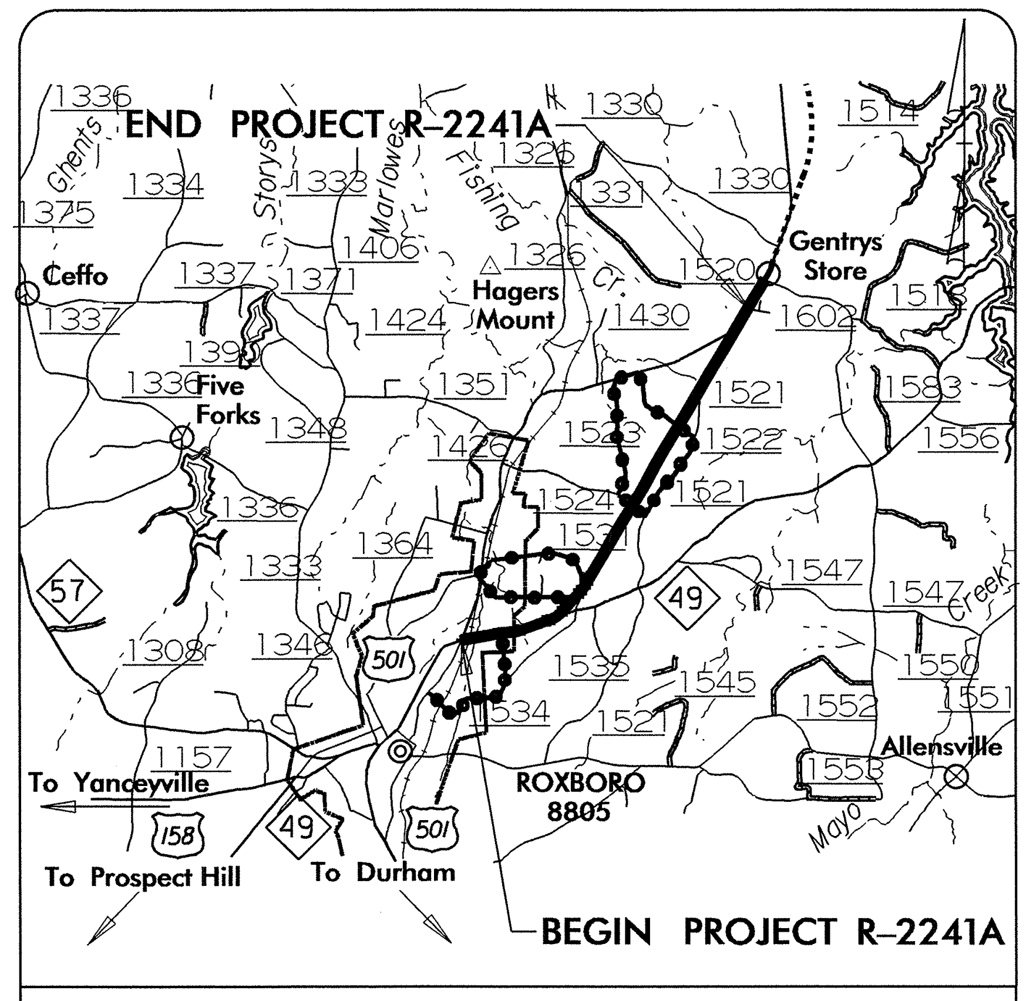
6/10/99

13-AUG-2012 06:20
R:\Utilities\Rdy_Ut\Proj\sewer line 3.dgn
jnigro AT UCU258653

9/09/99

TIP PROJECT: R-2241A

See Sheet 1-A For Index of Sheets


END PROJECT R-2241A
1336
1334
1335
1375
Ceffo
1337
1338 Five Forks
1348
1336
1333
1364
1308
1346
1157
To Yanceyville
158
To Prospect Hill
49
501
To Durham
1406
1424
1351
1330
1326
Hagers Mount
1430
1520
Gentrys Store
1602
1521
1522
1524
1547
1535
1545
1534
1552
1553
1550
1551
Allensville
49
57
ROXBORO 8805
BEGIN PROJECT R-2241A

Detour

VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

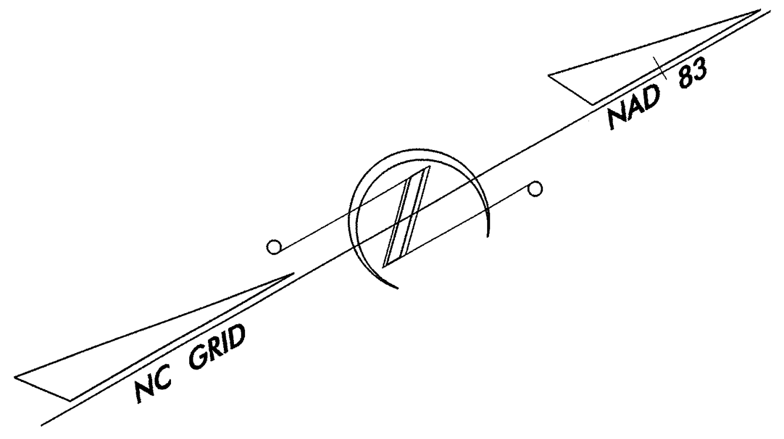
ALL DIMENSIONS IN
THESE PLANS ARE IN METERS
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

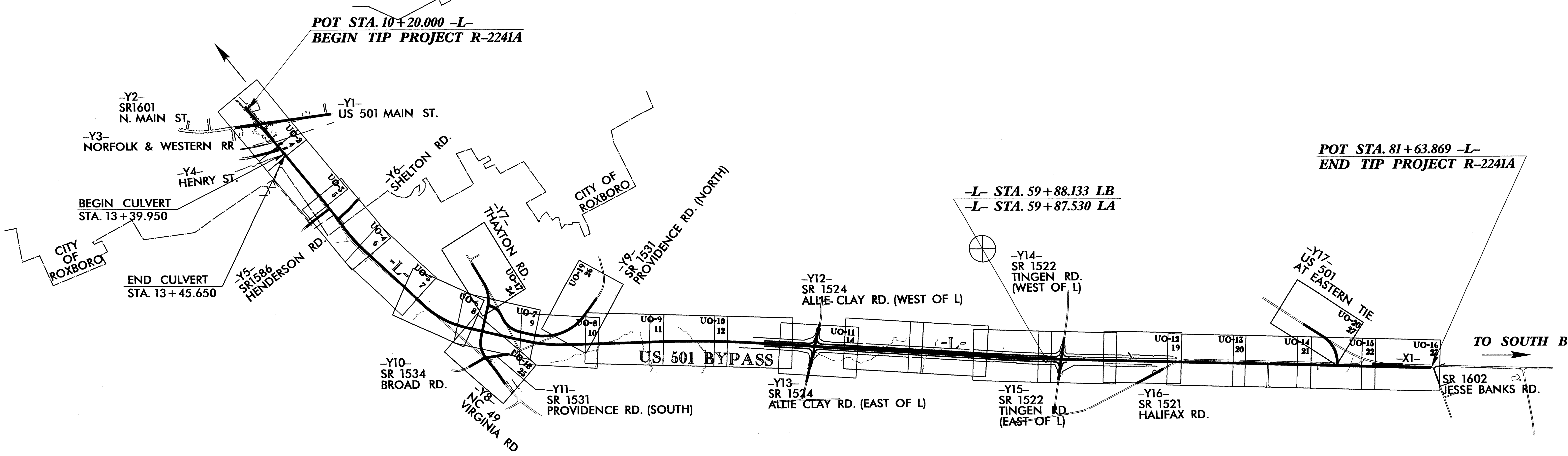
T.I.P. NO.	SHEET NO.
R-2241A	U0-1

UTILITIES BY OTHERS PLANS
PERSON COUNTY

LOCATION: US 501 FROM NC 49 IN ROXBORO TO SOUTH OF SR 1602

TYPE OF WORK: UTILITY WORK BY OTHERS


NAD 83
NC GRID


POT STA. 10+20.000 -L-
BEGIN TIP PROJECT R-2241A
-Y2-
SR1601
N. MAIN ST.
-Y1-
US 501 MAIN ST.
-Y3-
NORFOLK & WESTERN RR
-Y4-
HENRY ST.
BEGIN CULVERT
STA. 13+39.950
CITY OF ROXBORO
END CULVERT
STA. 13+45.650
-Y5-
SR1586
HENDERSON RD.
-Y6-
SHELTON RD.
-Y7-
THAXTON RD.
CITY OF ROXBORO
-Y9-
SR 1531
PROVIDENCE RD. (NORTH)
-Y10-
SR 1534
BROAD RD.
-Y8-
NC 49
VIRGINIA RD.
-Y11-
SR 1531
PROVIDENCE RD. (SOUTH)
US 501 BYPASS
-L-
UO-2
UO-3
UO-4
UO-5
UO-6
UO-7
UO-8
UO-9
UO-10
UO-11
UO-12
UO-13
UO-14
UO-15
UO-16
UO-17
UO-18
UO-19
UO-20
-Y12-
SR 1524
ALLIE CLAY RD. (WEST OF L)
-Y13-
SR 1524
ALLIE CLAY RD. (EAST OF L)
-L- STA. 59+88.133 LB
-L- STA. 59+87.530 LA
-Y14-
SR 1522
TINGEN RD.
(WEST OF L)
-Y15-
SR 1522
TINGEN RD.
(EAST OF L)
-Y16-
SR 1521
HALIFAX RD.
-Y17-
US 501
EASTERN TIE
POT STA. 81+63.869 -L-
END TIP PROJECT R-2241A
-X1-
SR 1602
JESSE BANKS RD.
TO SOUTH BOSTON, VA

GRAPHIC SCALES

5 0 10
PLANS

5 0 10
PROFILE (HORIZONTAL)

1 0 2
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-20	UTILITY BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT

(A) PROGRESS ENERGY (TRANSMISSION) - POWER
(B) PROGRESS ENERGY (DISTRIBUTION) - POWER
(C) PIEDMONT EMC (DISTRIBUTION) - POWER
(D) CENTURYLINK - TELEPHONE
(E) CHARTER COMMUNICATIONS - CATV
(F) PSNC ENERGY - GAS

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING SECTION
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E.	UTILITIES SECTION ENGINEER
Steve McKee, P.E.	UTILITIES SQUAD LEADER PROJECT ENGINEER
Keely T. Lane	UTILITIES PROJECT DESIGNER

27-FEB-2013 07:49
R:\Utilities\Rdy_Ut\Proj\R2241A_Ut_Title_U01_psh.dgn
AT UCU258653

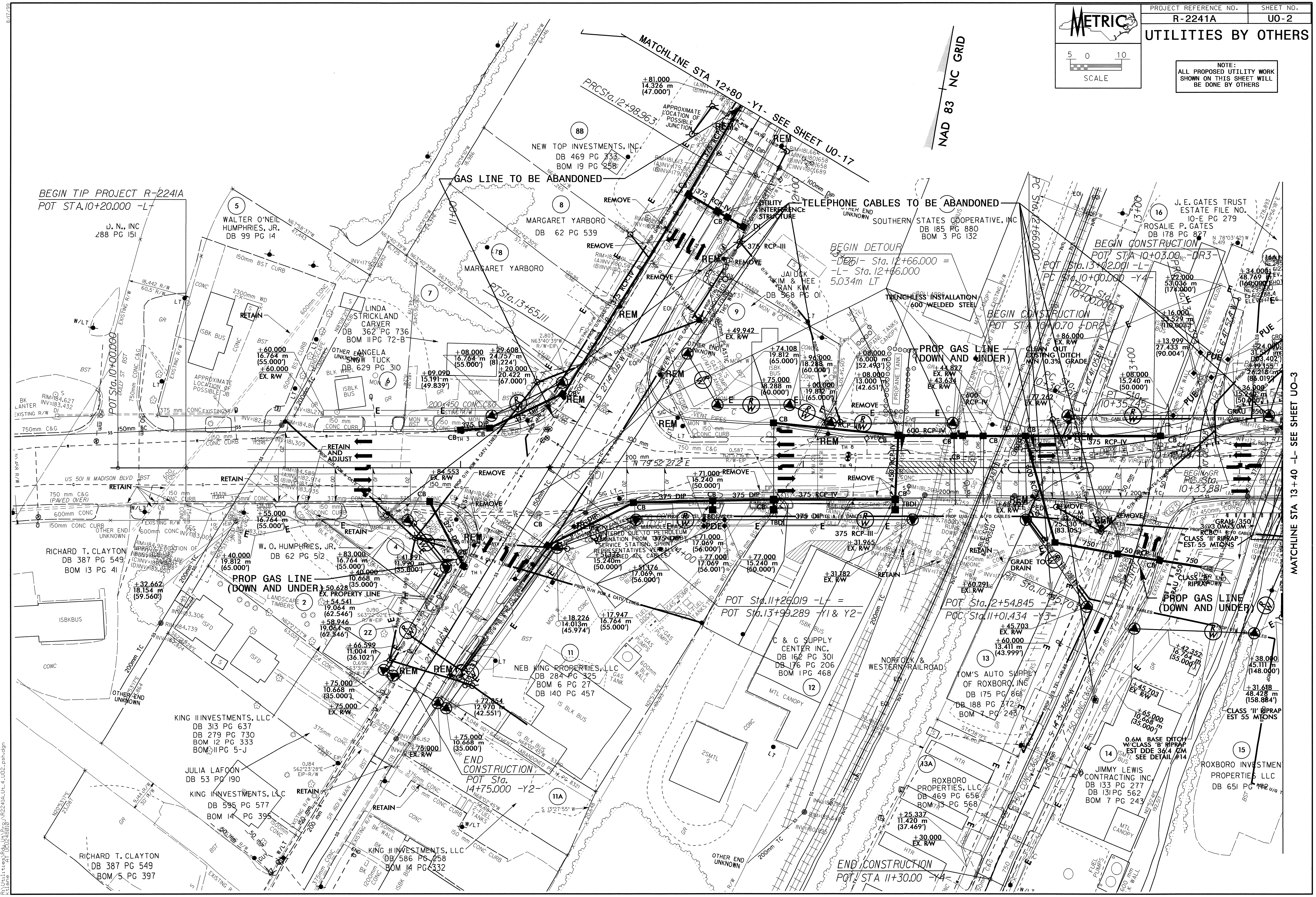
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-2

UTILITIES BY OTHERS

METRIC

SCALE 5 0 10

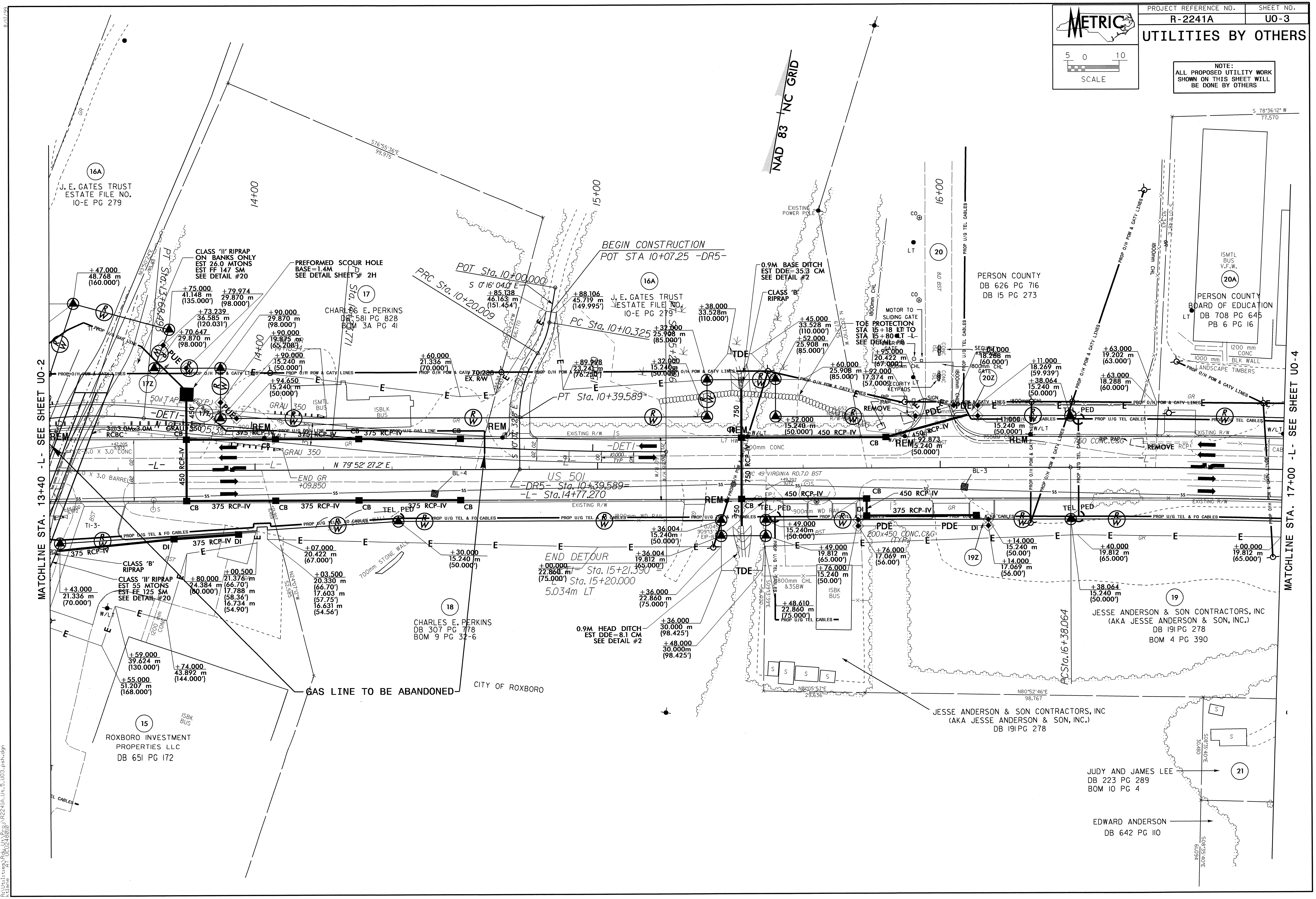
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS


MATCHLINE STA 12+80 -Y1- SEE SHEET U0-17
MATCHLINE STA 13+40 -L- SEE SHEET U0-3
NAD 83 NC GRID
BEGIN TIP PROJECT R-2241A
POT STA.10+20.000 -L-
GAS LINE TO BE ABANDONED
TELEPHONE CABLES TO BE ABANDONED
PROP GAS LINE (DOWN AND UNDER)
TRENCHLESS INSTALLATION 600 WELDED STEEL
BEGIN DETOUR -DET- Sta. 12+66.000 = -L- Sta. 12+66.000 5.034m LT
BEGIN CONSTRUCTION POT STA 10+03.00 -DR3-
BEGIN CONSTRUCTION POT STA 10+00.70 -DR2-
END CONSTRUCTION POT Sta. 14+75.000 -Y2-
END CONSTRUCTION POT STA 11+30.00 -Y4-
POT Sta.11+26.019 -L- = POT Sta.13+99.289 -Y1 & Y2-
POT Sta.12+54.845 -L- = POC Sta.11+01.434 -Y3-
APPROXIMATE LOCATION OF POSSIBLE JUNCTION
REMOVE
RETAIN
RETAIN AND ADJUST
REM
US 501 N MADISON BLVD
NEW TOP INVESTMENTS, INC. DB 469 PG 333 BOM 19 PG 258
MARGARET YARBORO DB 62 PG 539
WALTER O'NEIL HUMPHRIES, JR. DB 99 PG 14
LINDA STRICKLAND CARVER DB 362 PG 736 BOM 11 PG 72-B
ANGELA SNOW TUCK DB 629 PG 310
W. O. HUMPHRIES, JR. DB 62 PG 512
RICHARD T. CLAYTON DB 387 PG 549 BOM 13 PG 41
KING II INVESTMENTS, LLC DB 313 PG 637 DB 279 PG 730 BOM 12 PG 333 BOM 11 PG 5-J
JULIA LAFOON DB 53 PG 190
KING II INVESTMENTS, LLC DB 595 PG 577 BOM 14 PG 395
RICHARD T. CLAYTON DB 387 PG 549 BOM 5 PG 397
KING II INVESTMENTS, LLC DB 586 PG 258 BOM 14 PG 332
NEB KING PROPERTIES, LLC DB 284 PG 325 BOM 6 PG 27 DB 140 PG 457
C & G SUPPLY CENTER INC. DB 162 PG 301 DB 176 PG 206 BOM 1 PG 468
NORFOLK & WESTERN RAILROAD
TOM'S AUTO SUPPLY OF ROXBORO, INC DB 175 PG 86 DB 188 PG 372 BOM 7 PG 243
ROXBORO PROPERTIES, LLC DB 469 PG 656 BOM 13 PG 568
JIMMY LEWIS CONTRACTING INC. DB 133 PG 277 DB 131 PG 562 BOM 7 PG 243
ROXBORO INVESTMENT PROPERTIES LLC DB 651 PG 102
JAI UCK KIM & HEE RAN KIM DB 568 PG 01
SOUTHERN STATES COOPERATIVE, INC DB 185 PG 880 BOM 3 PG 132
J. E. GATES TRUST ESTATE FILE NO. 10-E PG 279
ROSALIE P. GATES DB 178 PG 827
D. N., INC 288 PG 151
CLEAN OUT EXISTING DITCH MIN 0.3% GRADE
GRADE TO DRAIN
CLASS 'II' RIPRAP EST 55 MTONS
0.6M BASE DITCH W/CLASS 'B' RIPRAP EST DDE 36.4 CM SEE DETAIL #14
OTHER END UNKNOWN

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UO-3

UTILITIES BY OTHERS

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



METRIC
5 0 10
SCALE
MATCHLINE STA. 13+40 -L- SEE SHEET UO-2
MATCHLINE STA. 17+00 -L- SEE SHEET UO-4
NAD 83 NC GRID
16A
J. E. GATES TRUST
ESTATE FILE NO.
10-E PG 279
14+00
15+00
16+00
S76°55'36"E
99.975
BEGIN CONSTRUCTION
POT STA 10+07.25 -DR5-
POT Sta. 10+00.000
S 0°16'04.0" E
PRC Sta. 10+20.009
PC Sta. 10+10.325
PT Sta. 10+39.589
CLASS 'II' RIPRAP
ON BANKS ONLY
EST 26.0 MTONS
EST FF 147 SM
SEE DETAIL #20
PREFORMED SCOUR HOLE
BASE=1.4M
SEE DETAIL SHEET # 2H
17
CHARLES E. PERKINS
DB 581 PG 828
BOM 3A PG 41
+47.000
48.768 m
(160.000')
+75.000
41.148 m
(135.000')
+79.974
29.870 m
(98.000')
+73.239
36.585 m
(120.031')
+70.647
29.870 m
(98.000')
+90.000
29.870 m
(98.000')
+90.000
19.875 m
(65.208')
+90.000
15.240 m
(50.000')
+94.650
15.240 m
(50.000')
+60.000
21.336 m
(70.000')
EX. R/W
+88.106
45.719 m
(149.995')
+85.138
46.163 m
(151.454')
+89.998
23.241 m
(76.250')
16A
J. E. GATES TRUST
ESTATE FILE NO.
10-E PG 279
+32.000
25.908 m
(85.000')
+32.000
15.240 m
(50.000')
+38.000
33.528m
(110.000')
0.9M BASE DITCH
EST DDE=35.3 CM
SEE DETAIL #2
CLASS 'B'
RIPRAP
+45.000
33.528 m
(110.000')
+52.000
25.908 m
(85.000')
+60.000
25.908 m
(85.000')
+92.000
17.374 m
(57.000')
+95.000
20.422 m
(67.000')
TOE PROTECTION
STA 15+18 LT TO
STA 15+80 LT -L-
SEE DETAIL #8
MOTOR TO
SLIDING GATE
SECURITY
KEYPADS
EXISTING
POWER POLE
20
PERSON COUNTY
DB 626 PG 716
DB 15 PG 273
20Z
+04.000
18.288 m
(60.000')
+11.000
18.269 m
(59.939')
+38.064
15.240 m
(50.000')
+63.000
19.202 m
(63.000')
+63.000
18.288 m
(60.000')
20A
ISMTL
BUS
V.F.W.
PERSON COUNTY
BOARD OF EDUCATION
DB 708 PG 645
PB 6 PG 16
1200 mm
CONC
1000 mm
BLK WALL
LANDSCAPE TIMBERS
S 78°36'12" W
77.570
PROP O/H POW & CATV LINES
PROP U/G TEL CABLES
PROP U/G TEL & FO CABLES
PROP U/G GAS LINE
17Z
RW
PUE
PDE
TDE
REM
REMOVE
TEL PED
PED
CB
DI
BL-4
BL-3
375 RCP-IV
450 RCP-IV
750
3@3.0Mx3.0M
RCBC
GRAU 350
-DET1-
-L-
N 79°52'27.2" E
END GR
+09.850
US 501
-DR5- Sta. 10+39.589 =
-L- Sta. 14+77.270
EXISTING R/W
10.000
TYP
1.7 HW
900mm CONC
VIRGINIA RD.7.0 BST
900mm WD RAIL
200x450 CONC.C&G
(TYP)
750 CONC.C&G
1800mm WD RAIL
ISBLK
BUS
ISMTL
BUS
50:1 TAPER
CLASS 'B'
RIPRAP
CLASS 'II' RIPRAP
EST 55 MTONS
EST FF 125 SM
SEE DETAIL #20
+43.000
21.336 m
(70.000')
+80.000
24.384 m
(80.000')
+00.500
21.376 m
(66.70')
17.788 m
(58.36')
16.734 m
(54.90')
+07.000
20.422 m
(67.000')
+03.500
20.330 m
(66.70')
17.603 m
(57.75')
16.631 m
(54.56')
+30.000
15.240 m
(50.000')
700mm STONE WALL
18
CHARLES E. PERKINS
DB 307 PG 778
BOM 9 PG 32-6
END DETOUR
+00.000
22.860 m
(75.000')
-DET1- Sta. 15+21.390 =
-L- Sta. 15+20.000
5.034m LT
+36.004
15.240m
(50.000')
+36.004
19.812 m
(65.000')
+36.000
22.860 m
(75.000')
+36.000
30.000 m
(98.425')
+48.000
30.000m
(98.425')
0.9M HEAD DITCH
EST DDE=8.1 CM
SEE DETAIL #2
+49.000
15.240m
(50.000')
+49.000
19.812 m
(65.000')
+76.000
15.240 m
(50.000')
+76.000
17.069 m
(56.000')
+48.610
22.860 m
(75.000')
800mm CHL
& 3SBW
19Z
+14.000
15.240 m
(50.00')
+14.000
17.069 m
(56.00')
+40.000
19.812 m
(65.000')
+38.064
15.240 m
(50.000')
+00.000
19.812 m
(65.000')
PC Sta.16+38.064
19
JESSE ANDERSON & SON CONTRACTORS, INC
(AKA JESSE ANDERSON & SON, INC.)
DB 191 PG 278
BOM 4 PG 390
+59.000
39.624 m
(130.000')
+55.000
51.207 m
(168.000')
+74.000
43.892 m
(144.000')
GAS LINE TO BE ABANDONED
CITY OF ROXBORO
15
ROXBORO INVESTMENT
PROPERTIES LLC
DB 651 PG 172
ISBK
BUS
N80°05'52"E
25.636
N80°52'46"E
98.767
JESSE ANDERSON & SON CONTRACTORS, INC
(AKA JESSE ANDERSON & SON, INC.)
DB 191 PG 278
JUDY AND JAMES LEE
DB 223 PG 289
BOM 10 PG 4
21
EDWARD ANDERSON
DB 642 PG 110
S08°35'40"E
30.480
S08°35'40"E
61.094

06-AUG-2012 09:04
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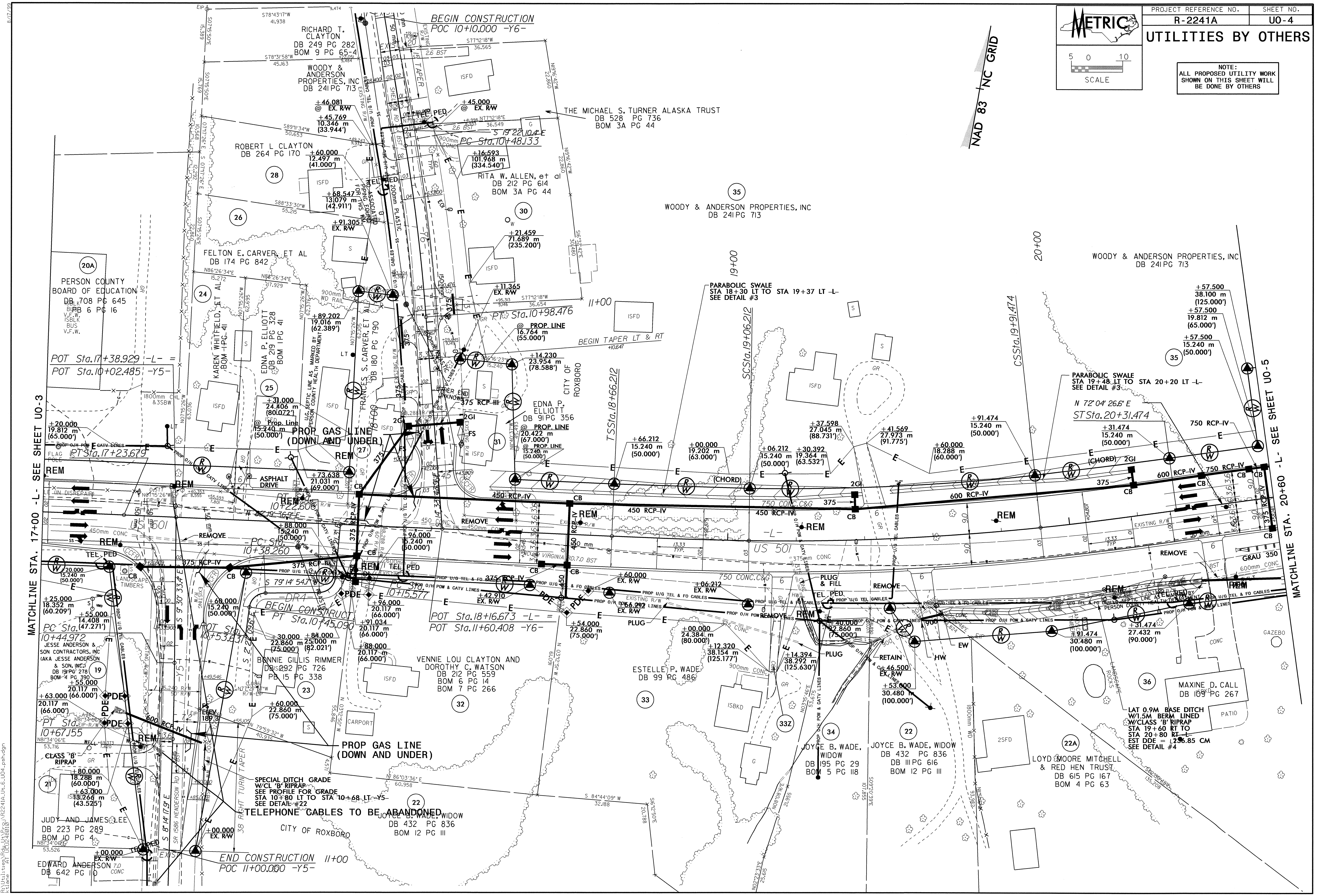
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-4

UTILITIES BY OTHERS

METRIC

5 0 10
SCALE

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

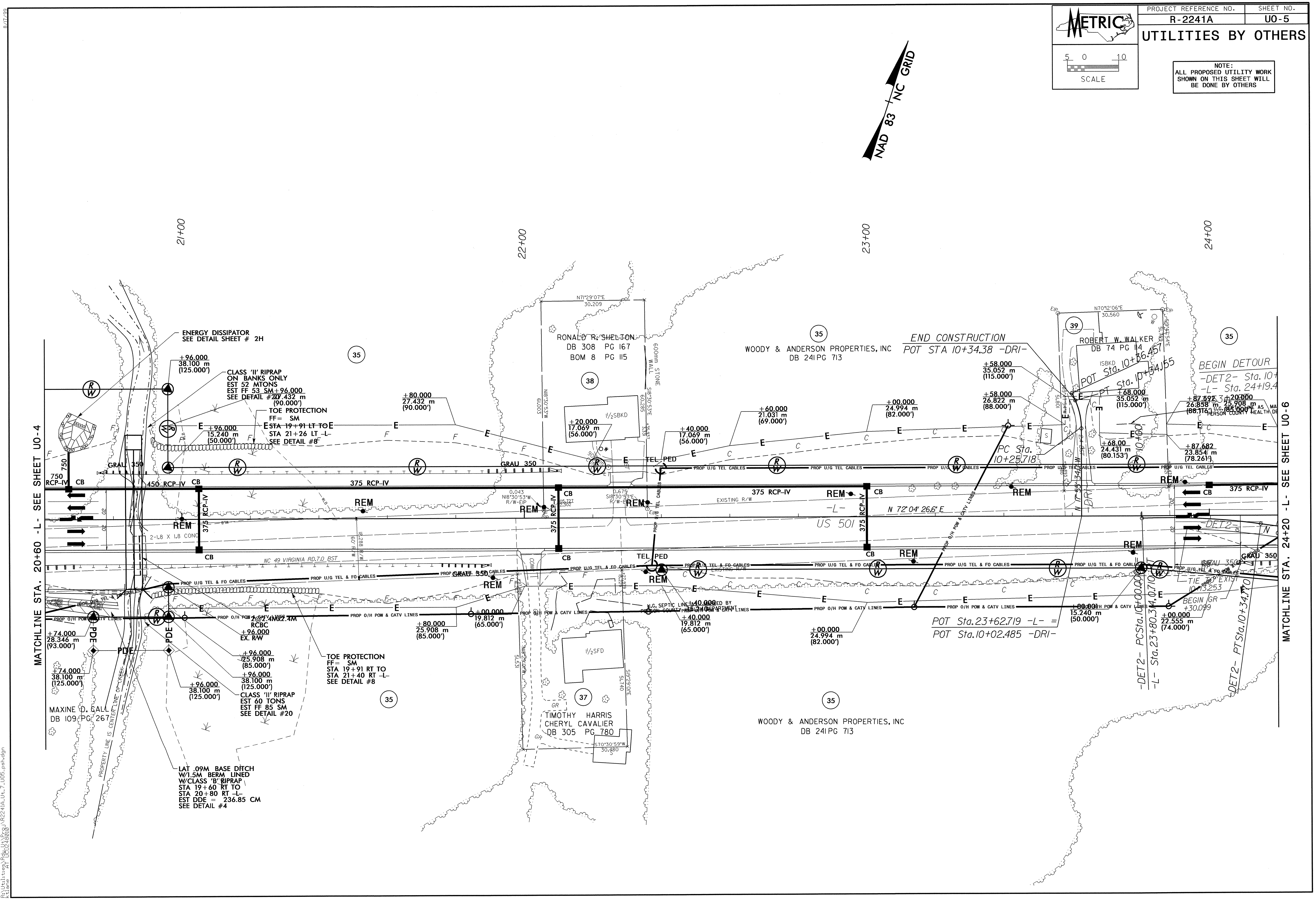

NAD 83 NC GRID
BEGIN CONSTRUCTION
POC 10+10.000 -Y6-
END CONSTRUCTION
POC 11+00.000 -Y5-
MATCHLINE STA. 17+00 -L- SEE SHEET U0-3
MATCHLINE STA. 20+60 -L- SEE SHEET U0-5
RICHARD T. CLAYTON
DB 249 PG 282
BOM 9 PG 65-4
WOODY & ANDERSON PROPERTIES, INC
DB 241 PG 713
THE MICHAEL S. TURNER ALASKA TRUST
DB 528 PG 736
BOM 3A PG 44
ROBERT L CLAYTON
DB 264 PG 170
RITA W. ALLEN, et al
DB 212 PG 614
BOM 3A PG 44
WOODY & ANDERSON PROPERTIES, INC
DB 241 PG 713
FELTON E. CARVER, ET AL
DB 174 PG 842
PERSON COUNTY BOARD OF EDUCATION
DB 708 PG 645
PB 6 PG 16
KAREN WHITFIELD, ET AL
BOM 1 PG 41
EDNA P. ELLIOTT
DB 219 PG 328
BOM 1 PG 41
FRANCES S. CARVER, ET AL
DB 180 PG 790
EDNA P. ELLIOTT
DB 91 PG 356
CITY OF ROXBORO
PC Sta.10+48.133
PT Sta.10+98.476
BEGIN TAPER LT & RT
TS Sta.18+66.212
SC Sta.19+06.212
CS Sta.19+91.474
ST Sta.20+31.474
N 72°04' 26.6" E
PARABOLIC SWALE
STA 18+30 LT TO STA 19+37 LT -L-
SEE DETAIL #3
PARABOLIC SWALE
STA 19+48 LT TO STA 20+20 LT -L-
SEE DETAIL #3
POT Sta.17+38.929 -L- =
POT Sta.10+02.485 -Y5-
PT Sta.17+23.679
PROP GAS LINE
(DOWN AND UNDER)
PC Sta. 10+38.260
PC Sta. 10+15.577
BEGIN CONSTRUCT
PT Sta.10+45.090
POT Sta.18+16.673 -L- =
POT Sta.11+60.408 -Y6-
PC Sta. 10+44.972
PT Sta. 10+67.155
PT Sta. 10+53.637
US 501
-L-
-DR1-
-Y5-
-Y6-
450 RCP-IV
600 RCP-IV
750 RCP-IV
375 RCP-IV
750 CONC.C&G
PROP U/G TEL & FO CABLES
PROP O/H POW & CATV LINES
REMOVE
REM
PLUG
PLUG & FILL
RETAIN
TEL. PED.
PDE
CB
2GI
EW
HW
(CHORD)
JESSE ANDERSON & SON CONTRACTORS, INC
(AKA JESSE ANDERSON & SON, INC.)
DB 19 PG 278
BOM 4 PG 390
BONNIE GILLIS RIMMER
DB 292 PG 726
PB 15 PG 338
VENNIE LOU CLAYTON AND
DOROTHY C. WATSON
DB 212 PG 559
BOM 6 PG 14
BOM 7 PG 266
ESTELLE P. WADE
DB 99 PG 486
JOYCE B. WADE, WIDOW
DB 195 PG 29
BOM 5 PG 118
JOYCE B. WADE, WIDOW
DB 432 PG 836
DB 111 PG 616
BOM 12 PG 111
LOYD MOORE MITCHELL
& RED HEN TRUST
DB 615 PG 167
BOM 4 PG 63
MAXINE D. CALL
DB 103 PG 267
JUDY AND JAMES LEE
DB 223 PG 289
BOM 10 PG 4
EDWARD ANDERSON
DB 642 PG 10
JOYCE B. WADE, WIDOW
DB 432 PG 836
BOM 12 PG 111
CITY OF ROXBORO
SPECIAL DITCH GRADE
W/CL 'B' RIPRAP
SEE PROFILE FOR GRADE
STA 10+80 LT TO STA 10+68 LT -Y5-
SEE DETAIL #22
TELEPHONE CABLES TO BE ABANDONED
38 RIGHT TURN TAPER
SR 1586 HENDERSON RD
LAT 0.9M BASE DITCH
W/1.5M BERM LINED
W/CLASS 'B' RIPRAP
STA 19+60 RT TO
STA 20+80 RT -L-
SEE DETAIL #4
CLASS 'B' RIPRAP
ASPHALT DRIVE
LANDSCAPE TIMBERS
FLAG POLE
GAZEBO
PATIO
CARPORT
ISFD
ISBKD
2SFD
28
26
20A
24
25
27
30
31
35
19
23
32
33
33Z
34
22
22A
36
21
+46.081 @ EX. R/W
+45.769 10.346 m (33.944')
+45.000 @ EX. R/W
+60.000 12.497 m (41.000')
+16.593 101.968 m (334.540')
+68.547 13.079 m (42.911')
+91.305 EX. R/W
+21.459 71.689 m (235.200')
+11.365 EX. R/W
+89.202 19.016 m (62.389')
@ PROP. LINE 16.764 m (55.000')
+14.230 23.954 m (78.588')
+31.000 24.406 m (80.072')
@ Prop. Line 15.240 m (50.000')
@ PROP. LINE 20.422 m (67.000')
@ PROP. LINE 15.240 m (50.000')
+20.000 19.812 m (65.000')
+73.638 21.031 m (69.000')
+88.000 15.240 m (50.000')
+96.000 15.240 m (50.000')
+66.212 15.240 m (50.000')
+00.000 19.202 m (63.000')
+06.212 15.240 m (50.000')
+30.392 19.364 m (63.532')
+37.598 27.045 m (88.731')
+41.569 27.973 m (91.775')
+60.000 18.288 m (60.000')
+91.474 15.240 m (50.000')
+31.474 15.240 m (50.000')
+57.500 38.100 m (125.000')
+57.500 19.812 m (65.000')
+57.500 15.240 m (50.000')
+20.000 15.240 m (50.000')
+25.000 18.352 m (60.209')
+55.000 14.408 m (47.271')
+55.000 20.117 m (66.000')
+63.000 20.117 m (66.000')
+60.000 15.240 m (50.000')
+96.000 20.117 m (66.000')
+91.034 20.117 m (66.000')
+88.000 20.117 m (66.000')
+30.000 22.860 m (75.000')
+84.000 25.000 m (82.021')
+60.000 22.860 m (75.000')
+42.910 EX. R/W
+60.000 EX. R/W
+06.212 EX. R/W
+66.212 EX. R/W
+54.000 22.860 m (75.000')
+00.000 24.384 m (80.000')
+12.320 38.154 m (125.177')
+14.394 38.292 m (125.630')
+40.000 22.860 m (75.000')
+46.500 EX. R/W
+53.000 30.480 m (100.000')
+91.474 30.480 m (100.000')
+31.474 27.432 m (90.000')
+80.000 18.288 m (60.000')
+63.000 13.266 m (43.525')
+00.000 EX. R/W
11+00
19+00
20+00
GRAU 350
600mm CONC
450mm CONC
EXISTING R/W
VIRGINIA

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-5

METRIC

UTILITIES BY OTHERS

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


5 0 10
SCALE
NAD 83 NC GRID
21+00
22+00
23+00
24+00
MATCHLINE STA. 20+60 -L- SEE SHEET U0-4
MATCHLINE STA. 24+20 -L- SEE SHEET U0-6
ENERGY DISSIPATOR SEE DETAIL SHEET # 2H
CLASS 'II' RIPRAP ON BANKS ONLY EST 52 MTONS EST FF 53 SM
SEE DETAIL #20
TOE PROTECTION FF= SM STA 19+91 LT TO STA 21+26 LT -L- SEE DETAIL #8
TOE PROTECTION FF= SM STA 19+91 RT TO STA 21+40 RT -L- SEE DETAIL #8
CLASS 'II' RIPRAP EST 60 TONS EST FF 85 SM SEE DETAIL #20
LAT .09M BASE DITCH W/1.5M BERM LINED W/CLASS 'B' RIPRAP STA 19+60 RT TO STA 20+80 RT -L- EST DDE = 236.85 CM SEE DETAIL #4
2@2.4MX2.4M RCBC
EX. R/W
RONALD R. SHELTON DB 308 PG 167 BOM 8 PG 115
WOODY & ANDERSON PROPERTIES, INC DB 241 PG 713
ROBERT W. WALKER DB 74 PG 14
TIMOTHY HARRIS CHERYL CAVALIER DB 305 PG 780
MAXINE D. CALL DB 109 PG 267
END CONSTRUCTION POT STA 10+34.38 -DRI-
BEGIN DETOUR -DET2- Sta. 10+ -L- Sta. 24+19.4
POT Sta.23+62.719 -L- = POT Sta.10+02.485 -DRI-
PC Sta. 10+25.718
-DET2- PCSta.10+00.000 -L- Sta.23+80.314
-DET2- PTSta.10+34.7
BEGIN GR +30.099
US 501
-L-
N 72°04'26.6" E
EXISTING R/W
NC 49 VIRGINIA RD.7.0 BST
375 RCP-IV
450 RCP-IV
750 RCP-IV
CB
REM
GRAU 350
TEL PED
PROP U/G TEL CABLES
PROP U/G TEL & FO CABLES
PROP O/H POW & CATV LINES
PROP O/H POW & CATV LINES
N.C. SEPTIC LINE APPROVED BY PERSON COUNTY HEALTH DEPARTMENT
600mm STONE WALL
1 1/2SBKD
1 1/2SFD
PROPERTY LINE IS CENTER LINE OF CREEK
PDE
2-1.8 X 1.8 CONC
+96.000 38.100 m (125.000')
+96.000 27.432 m (90.000')
+96.000 15.240 m (50.000')
+96.000 25.908 m (85.000')
+96.000 38.100 m (125.000')
+96.000 38.100 m (125.000')
+80.000 27.432 m (90.000')
+80.000 25.908 m (85.000')
+74.000 28.346 m (93.000')
+74.000 38.100 m (125.000')
+20.000 17.069 m (56.000')
+40.000 17.069 m (56.000')
+40.000 19.812 m (65.000')
+00.000 19.812 m (65.000')
+60.000 21.031 m (69.000')
+00.000 24.994 m (82.000')
+00.000 24.994 m (82.000')
+58.000 35.052 m (115.000')
+58.000 26.822 m (88.000')
+68.000 35.052 m (115.000')
+68.00 24.431 m (80.153')
+87.682 23.854 m (78.261')
+87.682 26.858 m (88.116')
+20.000 25.908 m
+80.000 15.240 m (50.000')
+00.000 22.555 m (74.000')
N71°29'07"E 30.209
N18°30'53"W 61.003
S18°30'53"E 63.285
N70°12'06"E 30.560
S70°30'59"W 30.480
N18°30'53"W R/W-EIP 0.043
S18°30'53"E R/W-EIP 0.675
35
38
37
39
TIE TO EXIST 10+53.253

8/17/99

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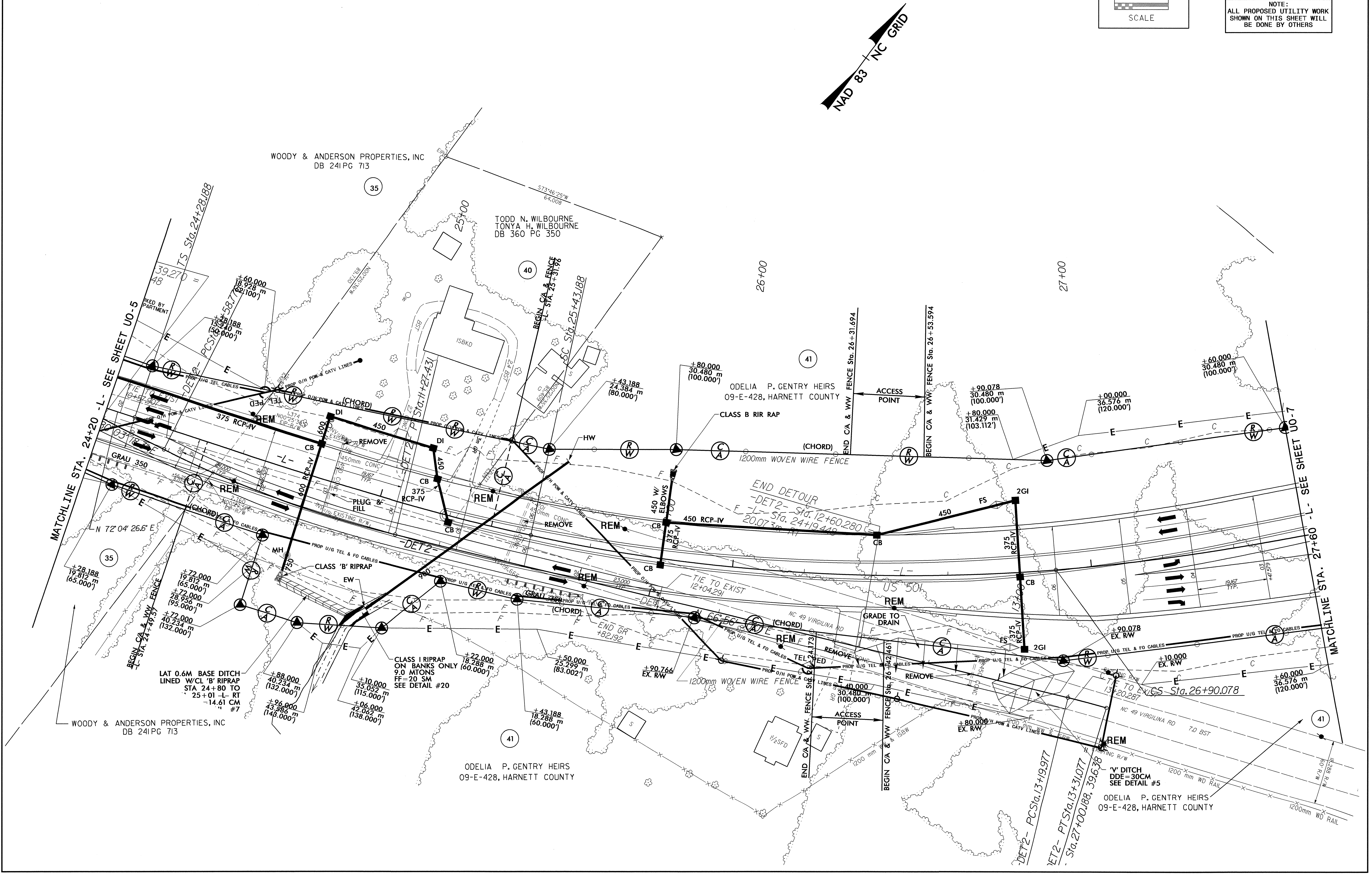
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-6

UTILITIES BY OTHERS

METRIC

5 0 10
SCALE

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



NAD 83 NC GRID
WOODY & ANDERSON PROPERTIES, INC
DB 241 PG 713
35
TODD N. WILBOURNE
TONYA H. WILBOURNE
DB 360 PG 350
40
S73°46'25"W
64.008
25+00
26+00
27+00
41
ODELIA P. GENTRY HEIRS
09-E-428, HARNETT COUNTY
MATCHLINE STA. 24+20 -L- SEE SHEET U0-5
MATCHLINE STA. 27+60 -L- SEE SHEET U0-7
TS Sta.24+28.188
BEGIN C/A & FENCE -L- STA. 25+31.96
SC Sta.25+43.188
END C/A & WW FENCE -L- Sta. 26+31.694
BEGIN C/A & WW FENCE -L- Sta. 26+53.594
ACCESS POINT
CLASS B RIR RAP
HW
(CHORD)
1200mm WOVEN WIRE FENCE
END DETOUR
-DET2- Sta. 12+60.280
-L- Sta. 24+19.418
20.073 m RT
375 RCP-IV
450 RCP-IV
600 RCP-IV
450
375
600
750
900
CB
DI
2GI
FS
REMOVE
REM
PLUG & FILL
450mm CONC
GRAU 350
-L-
-DET2-
US 501
NC 49 VIRGILINA RD
TIE TO EXIST 12+04.29
END GR +82.92
GRADE TO DRAIN
CS Sta.26+90.078
PROP O/H POW & CATV LINES
PROP U/G TEL & FO CABLES
PROP U/G TEL CABLES
TEL PED
MH
EW
CLASS 'B' RIPRAP
CLASS I RIPRAP ON BANKS ONLY 9.0 MTONS FF=20 SM SEE DETAIL #20
LAT 0.6M BASE DITCH LINED W/CL 'B' RIPRAP STA 24+80 TO 25+01 -L- RT -14.61 CM #7
'V' DITCH DDE=30CM SEE DETAIL #5
BEGIN C/A & WW FENCE -L- STA. 24+49.57
END C/A & WW FENCE Sta. 26+24.173
BEGIN C/A & WW FENCE Sta. 26+42.461
N 72°04'26.6" E
+60.000 18.928 m (62.100')
+28.188 15.240 m (50.000')
+28.188 19.812 m (65.000')
+72.000 19.812 m (65.000')
+72.000 28.956 m (95.000')
+72.000 40.234 m (132.000')
+88.000 40.234 m (132.000')
+96.000 43.586 m (143.000')
+10.000 35.052 m (115.000')
+06.000 42.062 m (138.000')
+22.000 18.288 m (60.000')
+50.000 25.299 m (83.002')
+43.188 18.288 m (60.000')
+43.188 24.384 m (80.000')
+80.000 30.480 m (100.000')
+90.766 EX. R/W
+40.000 30.480 m (100.000')
+80.000 EX. R/W
+90.078 30.480 m (100.000')
+80.000 31.429 m (103.112')
+00.000 36.576 m (120.000')
+60.000 30.480 m (100.000')
+90.078 EX. R/W
+10.000 EX. R/W
+60.000 36.576 m (120.000')
-DET2- PCSta.13+19.977
-DET2- PTSta.13+31.077
-L- Sta.27+00.188, 39.638
1200 mm WD RAIL
7.0 BST
1½SFD
1SBKD
S

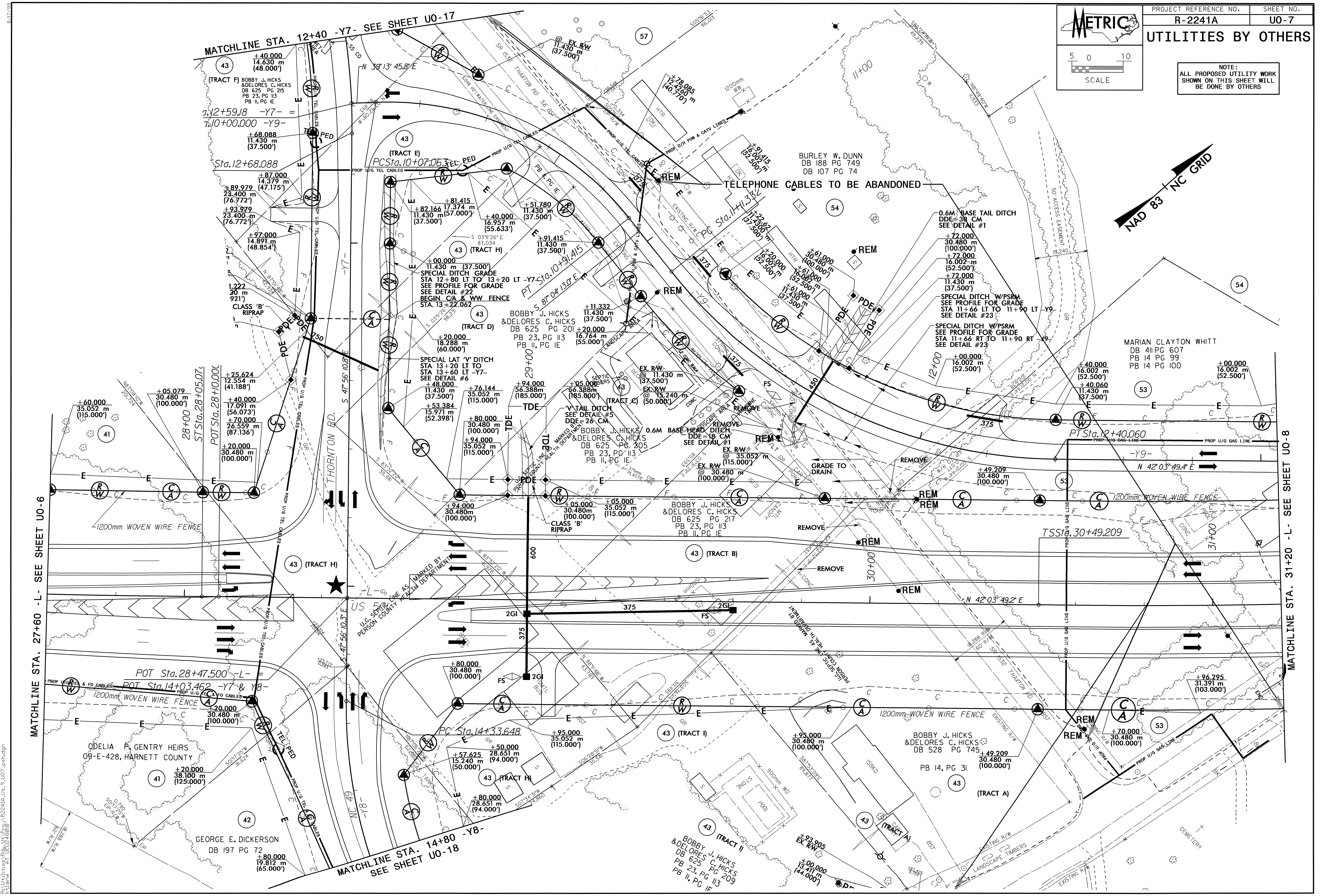
METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-7

UTILITIES BY OTHERS

5 0 10
SCALE

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


MATCHLINE STA. 12+40 -Y7- SEE SHEET U0-17
MATCHLINE STA. 27+60 -L- SEE SHEET U0-6
MATCHLINE STA. 31+20 -L- SEE SHEET U0-8
MATCHLINE STA. 14+80 -Y8- SEE SHEET U0-18
NAD 83 NC GRID
TELEPHONE CABLES TO BE ABANDONED
BURLEY W. DUNN
DB 188 PG 749
DB 107 PG 74
MARIAN CLAYTON WHITT
DB 411 PG 607
PB 14 PG 99
PB 14 PG 100
BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 201
PB 23, PG 113
PB 11, PG 1E
BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 205
PB 23, PG 113
PB 11, PG 1E
BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 217
PB 23, PG 113
PB 11, PG 1E
BOBBY J. HICKS
&DELORES C. HICKS
DB 528 PG 745
PB 14, PG 31
BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 209
PB 23, PG 113
PB 11, PG 1E
(TRACT F) BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 215
PB 23, PG 113
PB 11, PG 1E
ODELIA P. GENTRY HEIRS
09-E-428, HARNETT COUNTY
GEORGE E. DICKERSON
DB 197 PG 72
43 (TRACT E)
43 (TRACT H)
43 (TRACT D)
43 (TRACT C)
43 (TRACT B)
43 (TRACT I)
43 (TRACT A)
41
42
53
54
57
THORNTON RD.
SR 1532 THAXTON RD
US 501
NC 49
-Y7-
-Y8-
-Y9-
-L-
PCSta.10+07.063
PT Sta.10+91.415
PC Sta.11+41.332
PT Sta.12+40.060
TS Sta.30+49.209
POT Sta.28+47.500 -L- =
POT Sta.14+03.462 -Y7 & Y8-
PC Sta.14+33.648
POT Sta.28+05.07 ST Sta.28+10.000
Sta.12+59.18 -Y7- =
Sta.10+00.000 -Y9-
Sta.12+68.088
N 39° 13' 45.8" E
S 87° 04' 13.0" E
S 47° 56' 10.8" E
S 47° 56' 10.3" E
N 42° 03' 49.4" E
N 42° 03' 49.2" E
0.6M BASE TAIL DITCH
DDE= 30 CM
SEE DETAIL #1
SPECIAL DITCH W/PSRM
SEE PROFILE FOR GRADE
STA 11+66 LT TO 11+90 LT -Y9-
SEE DETAIL #23
SPECIAL DITCH W/PSRM
SEE PROFILE FOR GRADE
STA 11+66 RT TO 11+90 RT -Y9-
SEE DETAIL #23
SPECIAL DITCH GRADE
STA 12+80 LT TO 13+20 LT -Y7-
SEE PROFILE FOR GRADE
SEE DETAIL #22
BEGIN C/A & WW FENCE
STA. 13+22.062
SPECIAL LAT 'V' DITCH
STA 13+20 LT TO
STA 13+60 LT -Y7-
SEE DETAIL #6
'V' TAIL DITCH
SEE DETAIL #5
DDE= 26 CM
0.6M BASE HEAD DITCH
DDE= 18 CM
SEE DETAIL #1
CLASS 'B' RIPRAP
U.C. SEPTIC LINE AS MARKED BY PERSON COUNTY HEALTH DEPARTMENT
1200mm WOVEN WIRE FENCE
PROP U/G TEL CABLES
PROP U/G GAS LINE
PROP O/H POW & CATV LINES
PROP U/G FO CABLES
TEL PED
GRADE TO DRAIN
REMOVE
REM
PDE
TDE
2GI
FS
375
450
600
750
50' ACCESS EASEMENT
EXISTING R/W
LANDSCAPE TIMBERS
CEMETERY
POOL
STONE
+40.000 14.630 m (48.000')
+68.088 11.430 m (37.500')
+87.000 14.379 m (47.175')
+89.979 23.400 m (76.772')
+93.979 23.400 m (76.772')
+97.000 14.891 m (48.854')
+00.000 11.430 m (37.500')
+20.000 18.288 m (60.000')
+25.624 12.554 m (41.188')
+40.000 17.091 m (56.073')
+70.000 26.559 m (87.136')
+20.000 30.480 m (100.000')
+60.000 35.052 m (115.000')
+05.079 30.480 m (100.000')
+48.000 11.430 m (37.500')
+53.384 15.971 m (52.398')
+76.144 35.052 m (115.000')
+80.000 30.480 m (100.000')
+94.000 35.052 m (115.000')
+94.000 56.388m (185.000')
+05.000 56.388m (185.000')
+94.000 30.480m (100.000')
+05.000 30.480m (100.000')
+05.000 35.052 m (115.000')
+81.415 17.374 m (57.000')
+82.166 11.430 m (37.500')
+40.000 16.957 m (55.633')
+51.780 11.430 m (37.500')
+91.415 11.430 m (37.500')
+11.332 11.430 m (37.500')
+20.000 16.764 m (55.000')
+78.085 12.428 m (40.770')
+91.415 16.002 m (52.500')
+22.062 11.430 m (37.500')
+61.000 30.480 m (100.000')
+20.000 16.002 m (52.500')
+72.000 30.480 m (100.000')
+72.000 16.002 m (52.500')
+72.000 11.430 m (37.500')
+00.000 16.002 m (52.500')
+40.000 16.002 m (52.500')
+40.060 11.430 m (37.500')
+00.000 16.002 m (52.500')
+49.209 30.480 m (100.000')
+96.295 31.391 m (103.000')
+70.000 30.480 m (100.000')
+49.209 30.480 m (100.000')
+95.000 30.480 m (100.000')
+95.000 35.052 m (115.000')
+80.000 30.480 m (100.000')
+50.000 28.651 m (94.000')
+57.625 15.240 m (50.000')
+80.000 28.651 m (94.000')
+20.000 38.100 m (125.000')
+80.000 19.812 m (65.000')
+93.905 EX R/W
+00.000 13.411 m (44.000')
EX. R/W @ 11.430 m (37.500')
EX. R/W @ 15.240 m (50.000')
EX. R/W @ 35.052 m (115.000')
@ EX. R/W 11.430 m (37.500')
1.222 30 m 921'
11+00
12+00
29+00
30+00
31+00

8/17/99

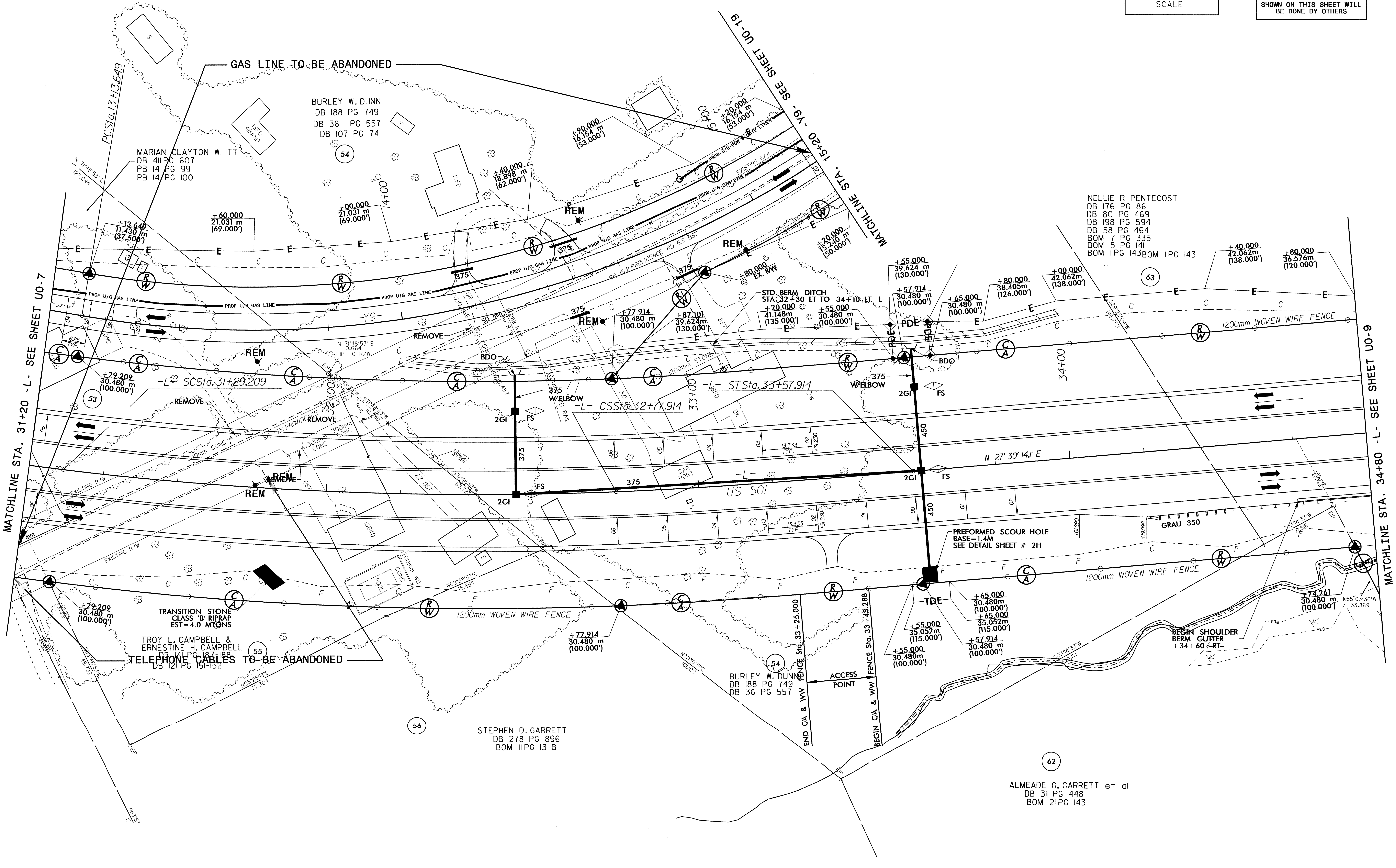
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-8

METRIC

UTILITIES BY OTHERS

5 0 10
SCALE

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



GAS LINE TO BE ABANDONED
TELEPHONE CABLES TO BE ABANDONED
MATCHLINE STA. 31+20 -L- SEE SHEET U0-7
MATCHLINE STA. 15+20 -Y9- SEE SHEET U0-19
MATCHLINE STA. 34+80 -L- SEE SHEET U0-9
BURLEY W. DUNN
DB 188 PG 749
DB 36 PG 557
DB 107 PG 74
54
MARIAN CLAYTON WHITT
DB 411 PG 607
PB 14 PG 99
PB 14 PG 100
PCSta.13+13.649
NELLIE R PENTECOST
DB 176 PG 86
DB 80 PG 469
DB 198 PG 594
DB 58 PG 464
BOM 7 PG 335
BOM 5 PG 141
BOM 1 PG 143 BOM 1 PG 143
63
TROY L. CAMPBELL &
ERNESTINE H. CAMPBELL
DB 141 PG 187-188
DB 121 PG 151-152
55
STEPHEN D. GARRETT
DB 278 PG 896
BOM 11 PG 13-B
56
ALMEADE G. GARRETT et al
DB 311 PG 448
BOM 21 PG 143
62
53
PROP U/G GAS LINE
PROP O/H POW & TV LINES
EXISTING R/W
SR 1531 PROVIDENCE RD 6.3 BST
-Y9-
-L-
US 501
-L- SCSta.31+29.209
-L- CSSta.32+77.914
-L- STSta.33+57.914
N 27° 30' 14.1" E
14+00
15+00
32+00
33+00
34+00
REM
REMOVE
375
375 W/ELBOW
450
2GI
FS
BDO
PDE
TDE
STD. BERM DITCH STA. 32+30 LT TO 34+10 LT -L-
PREFORMED SCOUR HOLE BASE=1.4M SEE DETAIL SHEET # 2H
TRANSITION STONE CLASS 'B' RIPRAP EST=4.0 MTONS
BEGIN SHOULDER BERM GUTTER +34+60 -RT-
GRAU 350
1200mm WOVEN WIRE FENCE
1200mm STONE
300mm CONC
200mm WD
END C/A & WW FENCE Sta. 33+25.000
BEGIN C/A & WW FENCE Sta. 33+43.288
ACCESS POINT
+80.000 @ EX. R/W
+90.000 16.154 m (53.000')
+20.000 16.154 m (53.000')
+40.000 18.898 m (62.000')
+00.000 21.031 m (69.000')
+60.000 21.031 m (69.000')
+13.649 11.430 m (37.500')
+29.209 30.480 m (100.000')
+77.914 30.480 m (100.000')
+87.101 39.624m (130.000')
+20.000 15.240 m (50.000')
+20.000 41.148m (135.000')
+55.000 30.480 m (100.000')
+55.000 39.624 m (130.000')
+57.914 30.480 m (100.000')
+65.000 30.480 m (100.000')
+80.000 38.405m (126.000')
+00.000 42.062m (138.000')
+40.000 42.062m (138.000')
+80.000 36.576m (120.000')
+65.000 30.480m (100.000')
+65.000 35.052m (115.000')
+55.000 35.052m (115.000')
+55.000 30.480m (100.000')
+57.914 30.480 m (100.000')
+74.261 30.480 m (100.000')
N 71°48'53" E 127.044
N 71°48'53" E 0.664 EIP TO R/W
N09°39'57"E 45.598
N05°25'18"E 77.304
N70°10'51"E 101.102
S03°14'33"W 21.316
S03°14'33"W 10.171
S89°23'04"W 145.853
N85°03'30"W 33.869
ISFD
ISFD ABAND
ISBKD
CAR PORT
POOL
CONC

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ktlane AT UCU2480010

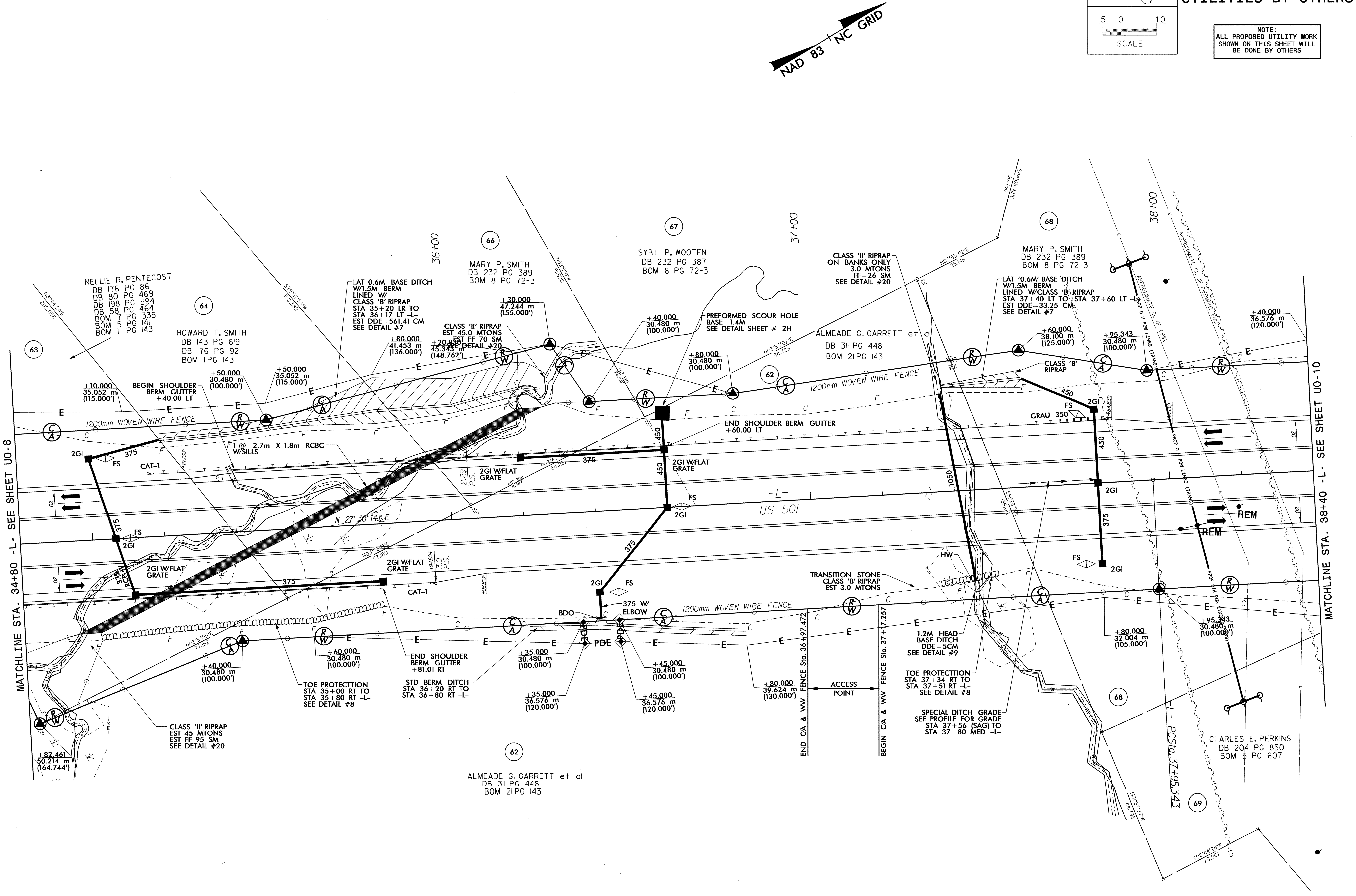
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-9

UTILITIES BY OTHERS

METRIC

SCALE 5 0 10

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



NAD 83 NC GRID
MATCHLINE STA. 34+80 -L- SEE SHEET U0-8
MATCHLINE STA. 38+40 -L- SEE SHEET U0-10
36+00
37+00
38+00
-L-
US 501
N 27° 30' 14.1" E
63
NELLIE R. PENTECOST
DB 176 PG 86
DB 80 PG 469
DB 198 PG 594
DB 58 PG 464
BOM 7 PG 335
BOM 5 PG 141
BOM 1 PG 143
N81°44'24"E 209.058
64
HOWARD T. SMITH
DB 143 PG 619
DB 176 PG 92
BOM 1 PG 143
S79°57'59"W 150.382
66
MARY P. SMITH
DB 232 PG 389
BOM 8 PG 72-3
N89°11'14"W 91.920
67
SYBIL P. WOOTEN
DB 232 PG 387
BOM 8 PG 72-3
62
ALMEADE G. GARRETT et al
DB 311 PG 448
BOM 21 PG 143
68
MARY P. SMITH
DB 232 PG 389
BOM 8 PG 72-3
S44°08'42"E 30.750
N03°53'02"E 25.148
N03°53'02"E 84.789
69
CHARLES E. PERKINS
DB 204 PG 850
BOM 5 PG 607
N81°37'27"W 44.798
S02°44'28"W 29.962
S81°28'51"E 136.012
N03°53'15"E 77.152
N03°53'15"E 57.180
N03°41'58"E 54.232
+10.000 35.052 m (115.000')
BEGIN SHOULDER BERM GUTTER +40.00 LT
+50.000 30.480 m (100.000')
+50.000 35.052 m (115.000')
LAT 0.6M BASE DITCH W/1.5M BERM LINED W/ CLASS 'B' RIPRAP STA 35+20 LR TO STA 36+17 LT -L- EST DDE=561.41 CM SEE DETAIL #7
+80.000 41.453 m (136.000')
CLASS 'II' RIPRAP EST 45.0 MTONS EST FF 70 SM SEE DETAIL #20
+20.930 45.343 m (148.762')
+30.000 47.244 m (155.000')
+40.000 30.480 m (100.000')
PREFORMED SCOUR HOLE BASE=1.4M SEE DETAIL SHEET # 2H
+80.000 30.480 m (100.000')
+67.970 28.432
CLASS 'II' RIPRAP ON BANKS ONLY 3.0 MTONS FF=26 SM SEE DETAIL #20
LAT '0.6M' BASE DITCH W/1.5M BERM LINED W/CLASS 'B' RIPRAP STA 37+40 LT TO STA 37+60 LT -L- EST DDE=33.25 CM SEE DETAIL #7
+60.000 38.100 m (125.000')
+95.343 30.480 m (100.000')
+40.000 36.576 m (120.000')
CLASS 'B' RIPRAP
APPROXIMATE CL OF CP&L
APPROXIMATE CL OF PIEDMONT EMC
PROP O/H POW LINES (TRANS)
GRAU 350
REM
1200mm WOVEN WIRE FENCE
END SHOULDER BERM GUTTER +60.00 LT
1 @ 2.7m X 1.8m RCBC W/SILLS
CAT-1
2GI
FS
375
450
1050
375 RCP-1
2GI W/FLAT GRATE
2.29 P.S.
3.0 P.S.
+97.308 8.987
+94.604
+08.892
+27.092
+84.839
8:1
EIP
WLB
HW
TRANSITION STONE CLASS 'B' RIPRAP EST 3.0 MTONS
375 W/ ELBOW
BDO
PDE
+82.461 50.214 m (164.744')
+40.000 30.480 m (100.000')
+60.000 30.480 m (100.000')
END SHOULDER BERM GUTTER +81.01 RT
TOE PROTECTTION STA 35+00 RT TO STA 35+80 RT -L- SEE DETAIL #8
STD BERM DITCH STA 36+20 RT TO STA 36+80 RT -L-
CLASS 'II' RIPRAP EST 45 MTONS EST FF 95 SM SEE DETAIL #20
+35.000 30.480 m (100.000')
+35.000 36.576 m (120.000')
+45.000 30.480 m (100.000')
+45.000 36.576 m (120.000')
+80.000 39.624 m (130.000')
END C/A & WW FENCE Sta. 36+97.472
ACCESS POINT
BEGIN C/A & WW FENCE Sta. 37+17.257
1.2M HEAD BASE DITCH DDE=5CM SEE DETAIL #9
TOE PROTECTTION STA 37+34 RT TO STA 37+51 RT -L- SEE DETAIL #8
SPECIAL DITCH GRADE SEE PROFILE FOR GRADE STA 37+56 (SAG) TO STA 37+80 MED -L-
+80.000 32.004 m (105.000')
+95.343 30.480 m (100.000')
-L- PCSta. 37+95.343
R/W
C/A
E
F
C
02

8/17/99

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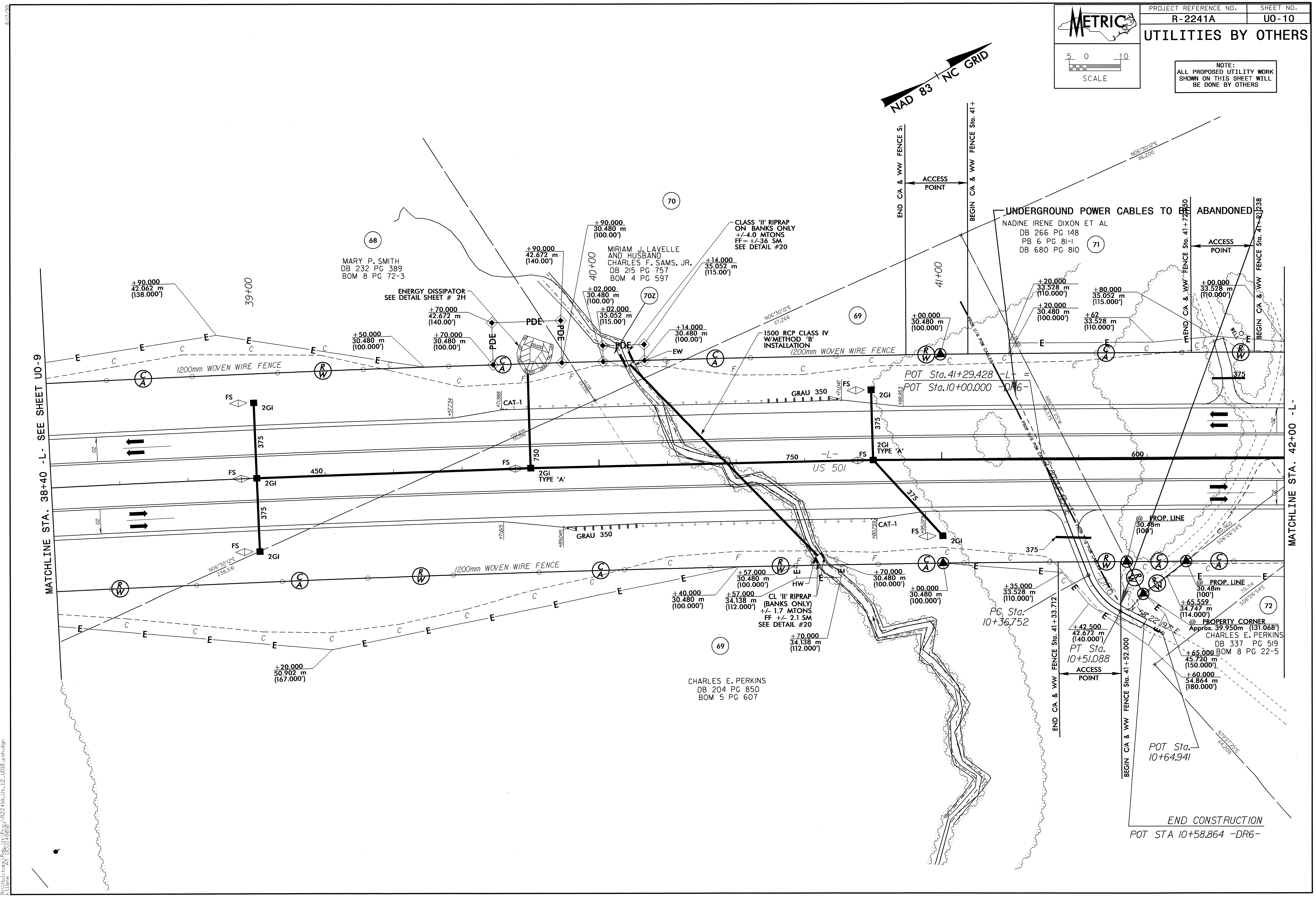
ktlane AT UCU248010

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-10

UTILITIES BY OTHERS

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


METRIC
5 0 10
SCALE
NAD 83 / NC GRID
MATCHLINE STA. 38+40 -L- SEE SHEET U0-9
MATCHLINE STA. 42+00 -L-
39+00
40+00
41+00
-L-
US 501
68
MARY P. SMITH
DB 232 PG 389
BOM 8 PG 72-3
70
MIRIAM J. LAVELLE
AND HUSBAND
CHARLES F. SAMS, JR.
DB 215 PG 757
BOM 4 PG 597
70Z
69
71
NADINE IRENE DIXON ET AL
DB 266 PG 148
PB 6 PG 81-1
DB 680 PG 810
72
CHARLES E. PERKINS
DB 337 PG 519
BOM 8 PG 22-5
CHARLES E. PERKINS
DB 204 PG 850
BOM 5 PG 607
UNDERGROUND POWER CABLES TO BE ABANDONED
PROP U/G POW CABLES
ENERGY DISSIPATOR
SEE DETAIL SHEET # 2H
CLASS 'II' RIPRAP
ON BANKS ONLY
+/-4.0 MTONS
FF= +/-36 SM
SEE DETAIL #20
1500 RCP CLASS IV
W/METHOD 'B'
INSTALLATION
CL 'II' RIPRAP
(BANKS ONLY)
+/- 1.7 MTONS
FF +/- 2.1 SM
SEE DETAIL #20
1200mm WOVEN WIRE FENCE
END C/A & WW FENCE Sta. 41+...
BEGIN C/A & WW FENCE Sta. 41+...
ACCESS POINT
END C/A & WW FENCE Sta. 41+72.350
BEGIN C/A & WW FENCE Sta. 41+91.238
END C/A & WW FENCE Sta. 41+33.712
BEGIN C/A & WW FENCE Sta. 41+52.000
POT Sta. 41+29.428 -L- =
POT Sta. 10+00.000 -DR6-
PC Sta. 10+36.752
PT Sta. 10+51.088
POT Sta. 10+64.941
END CONSTRUCTION
POT STA 10+58.864 -DR6-
+90.000 42.062 m (138.000')
+50.000 30.480 m (100.000')
+70.000 42.672 m (140.000')
+70.000 30.480 m (100.000')
+90.000 42.672 m (140.00')
+90.000 30.480 m (100.00')
+02.000 30.480 m (100.00')
+02.000 35.052 m (115.00')
+14.000 35.052 m (115.00')
+14.000 30.480 m (100.00')
+00.000 30.480 m (100.000')
+20.000 33.528 m (110.000')
+20.000 30.480 m (100.000')
+80.000 35.052 m (115.000')
+62 33.528 m (110.000')
+00.000 33.528 m (110.000')
+20.000 50.902 m (167.000')
+40.000 30.480 m (100.000')
+57.000 30.480 m (100.000')
+57.000 34.138 m (112.000')
+70.000 34.138 m (112.000')
+70.000 30.480 m (100.000')
+00.000 30.480 m (100.000')
+35.000 33.528 m (110.000')
+42.500 42.672 m (140.000')
@ PROP. LINE 30.48m (100')
@ PROP. LINE 30.48m (100')
+65.559 34.747 m (114.000')
@ PROPERTY CORNER Approx. 39.950m (131.068')
+65.000 45.720 m (150.000')
+60.000 54.864 m (180.000')
PDE
EW
HW
WELL
FS
2GI
2GI TYPE 'A'
CAT-1
GRAU 350
375
450
750
600
N06°30'12"E 116.200
N06°30'12"E 117.266
N06°30'12"E 238.541
N86°07'25"W 118.575
S06°26'54"E 60.960
S06°26'54"E 70.714
N79°27'25"E 64.209
N 58°22'19.7" E
C
A
R
W
E
F

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stlane AT UC024800

8/17/99

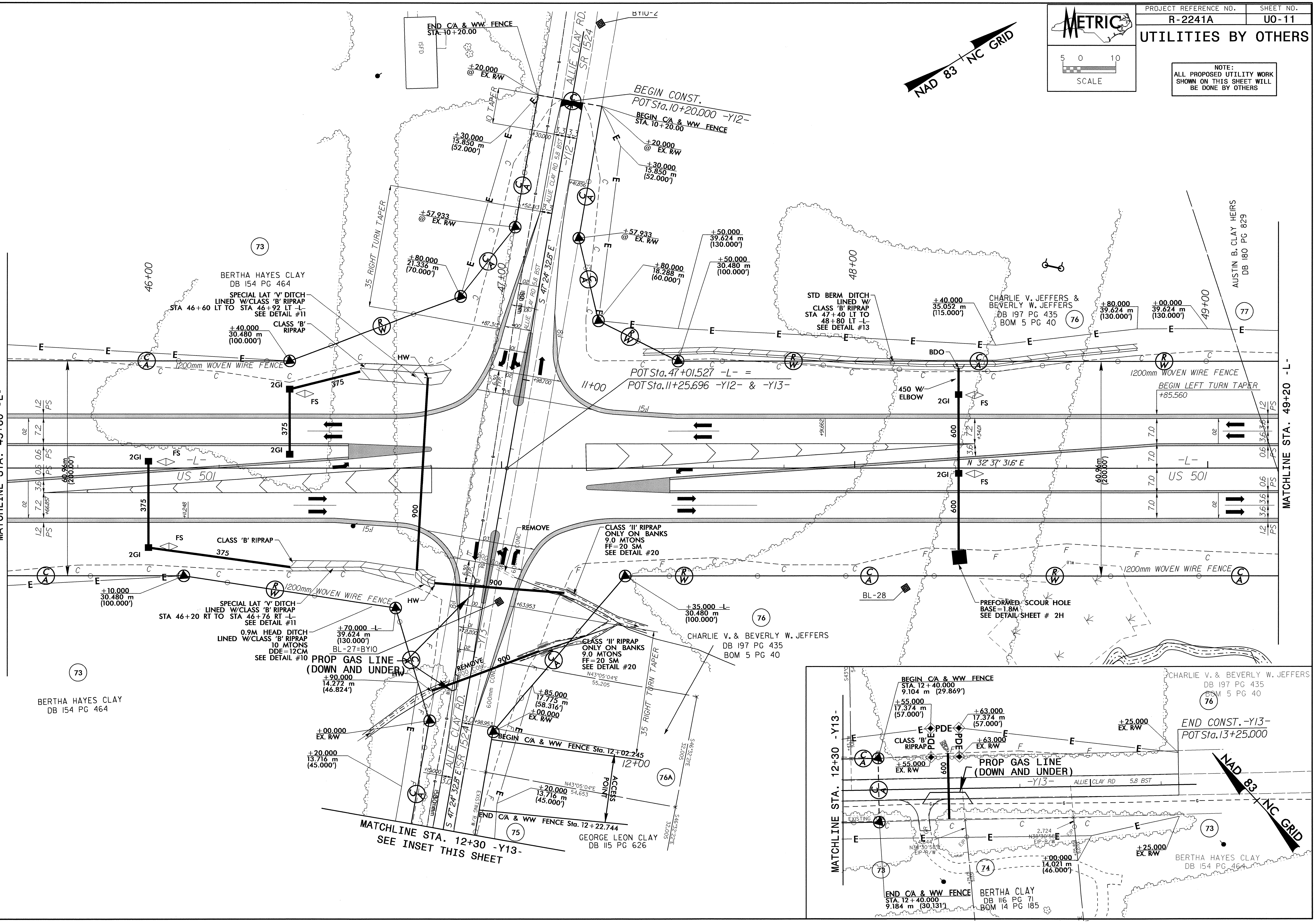
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-11

UTILITIES BY OTHERS

METRIC

5 0 10
SCALE

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



NAD 83 / NC GRID
BYIO-2
END C/A & WW FENCE STA. 10+20.000
+20.000 @ EX. R/W
10 TAPER
+30.000 15.850 m (52.000')
ALLIE CLAY RD. SR 1524
-Y12-
BEGIN CONST. POT Sta. 10+20.000 -Y12-
BEGIN C/A & WW FENCE STA. 10+20.00
+20.000 @ EX. R/W
+30.000 15.850 m (52.000')
35 RIGHT TURN TAPER
+57.933 @ EX. R/W
+80.000 21.336 m (70.000')
+57.933 @ EX. R/W
+50.000 39.624 m (130.000')
+80.000 18.288 m (60.000')
+50.000 30.480 m (100.000')
73
BERTHA HAYES CLAY DB 154 PG 464
46+00
47+00
48+00
49+00
SPECIAL LAT 'V' DITCH LINED W/CLASS 'B' RIPRAP STA 46+60 LT TO STA 46+92 LT -L- SEE DETAIL #11
CLASS 'B' RIPRAP
+40.000 30.480 m (100.000')
S 47° 24' 32.8" E
STD BERM DITCH LINED W/ CLASS 'B' RIPRAP STA 47+40 LT TO 48+80 LT -L- SEE DETAIL #13
+40.000 35.052 m (115.000')
CHARLIE V. JEFFERS & BEVERLY W. JEFFERS DB 197 PG 435 BOM 5 PG 40
76
+80.000 39.624 m (130.000')
+00.000 39.624 m (130.000')
AUSTIN B. CLAY HEIRS DB 180 PG 829
77
1200mm WOVEN WIRE FENCE
HW
BDO
POT Sta. 47+01.527 -L- = POT Sta. 11+25.696 -Y12- & -Y13-
11+00
15:1
450 W/ ELBOW
2GI
FS
375
BEGIN LEFT TURN TAPER +85.560
MATCHLINE STA. 45+60 -L-
MATCHLINE STA. 49+20 -L-
-L-
US 501
N 32° 37' 31.6" E
60.96m (200.00')
600
900
REMOVE
CLASS 'II' RIPRAP ONLY ON BANKS 9.0 MTONS FF=20 SM SEE DETAIL #20
CLASS 'B' RIPRAP
BL-28
PREFORMED SCOUR HOLE BASE=1.8M SEE DETAIL SHEET # 2H
+10.000 30.480 m (100.000')
SPECIAL LAT 'V' DITCH LINED W/CLASS 'B' RIPRAP STA 46+20 RT TO STA 46+76 RT -L- SEE DETAIL #11
0.9M HEAD DITCH LINED W/CLASS 'B' RIPRAP 10 MTONS DDE=12CM SEE DETAIL #10
+70.000 -L- 39.624 m (130.000')
BL-27=BYIO
PROP GAS LINE (DOWN AND UNDER)
+90.000 14.272 m (46.824')
+35.000 -L- 30.480 m (100.000')
CHARLIE V. & BEVERLY W. JEFFERS DB 197 PG 435 BOM 5 PG 40
CLASS 'II' RIPRAP ONLY ON BANKS 9.0 MTONS FF=20 SM SEE DETAIL #20
N43°05'04"E 55.205
+85.000 17.775 m (58.316')
+00.000 EX. R/W
+00.000 EX. R/W
+20.000 13.716 m (45.000')
BEGIN C/A & WW FENCE Sta. 12+02.245
12+00
ACCESS POINT
76A
-Y13-
600mm CONC
+20.000 13.716 m (45.000')
N43°05'04"E 54.653
END C/A & WW FENCE Sta. 12+22.744
75
GEORGE LEON CLAY DB 115 PG 626
MATCHLINE STA. 12+30 -Y13- SEE INSET THIS SHEET
73
BERTHA HAYES CLAY DB 154 PG 464
BEGIN C/A & WW FENCE STA. 12+40.000 9.104 m (29.869')
+55.000 17.374 m (57.000')
+63.000 17.374 m (57.000')
PDE
CLASS 'B' RIPRAP
+63.000 EX. R/W
+55.000 EX. R/W
PROP GAS LINE (DOWN AND UNDER)
CHARLIE V. & BEVERLY W. JEFFERS DB 197 PG 435 BOM 5 PG 40
76
+25.000 EX. R/W
END CONST. -Y13- POT Sta. 13+25.000
ALLIE CLAY RD 5.8 BST
MATCHLINE STA. 12+30 -Y13-
EXISTING
+00.000 14.021 m (46.000')
+25.000 EX. R/W
73
BERTHA HAYES CLAY DB 154 PG 464
75
74
END C/A & WW FENCE STA. 12+40.000 9.184 m (30.131')
BERTHA CLAY DB 116 PG 71 BOM 14 PG 185
NAD 83 / NC GRID

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ktlane AT UCU2480010

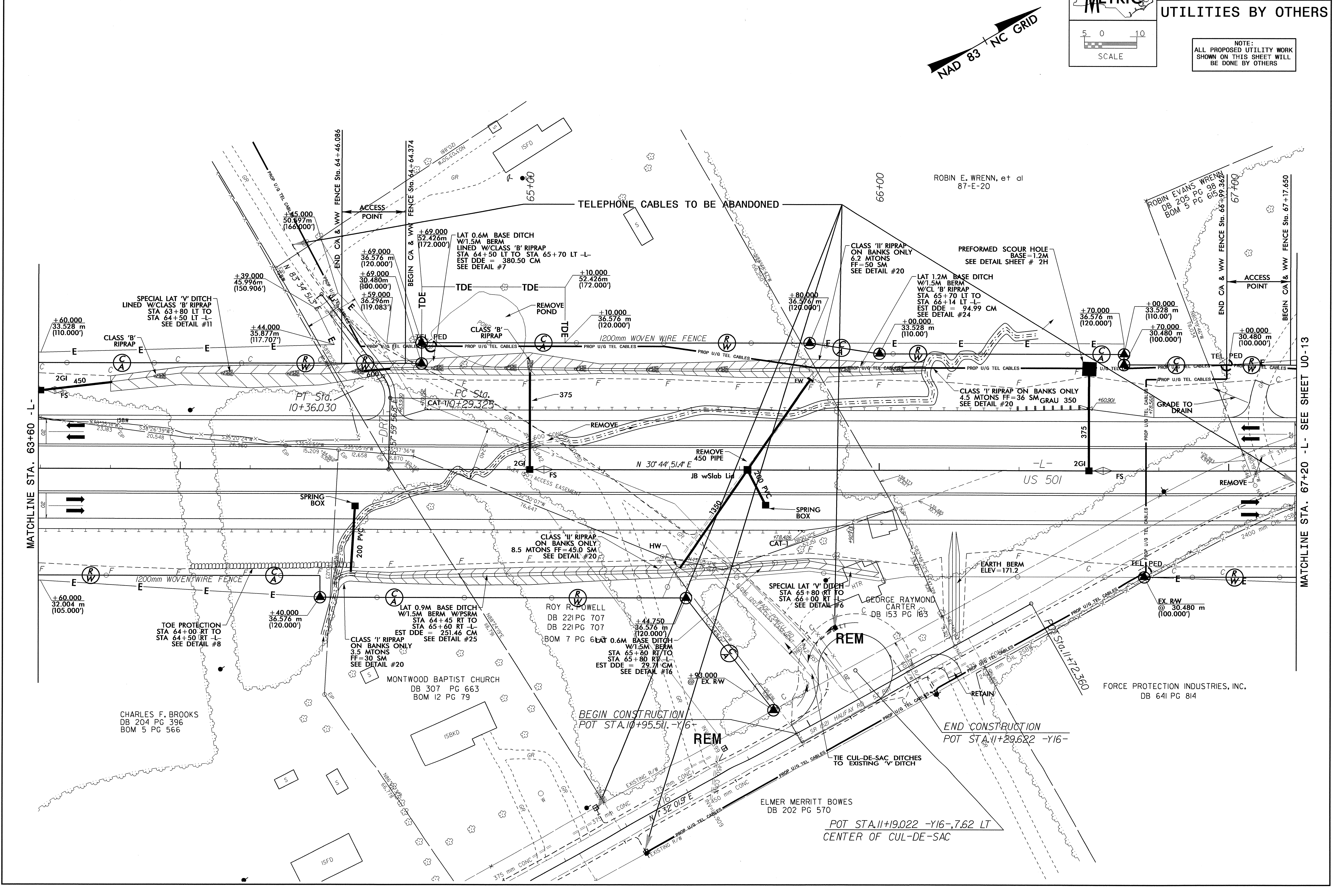
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-12

UTILITIES BY OTHERS

METRIC

5 0 10
SCALE

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


NAD 83 NC GRID
MATCHLINE STA. 63+60 -L-
MATCHLINE STA. 67+20 -L- SEE SHEET U0-13
TELEPHONE CABLES TO BE ABANDONED
END C/A & WW FENCE Sta. 64+46.086
BEGIN C/A & WW FENCE Sta. 64+64.374
END C/A & WW FENCE Sta. 66+99.362
BEGIN C/A & WW FENCE Sta. 67+17.650
ACCESS POINT
ROBIN E. WRENN, et al
87-E-20
ROBIN EVANS WRENN
DB 205 PG 98
BOM 5 PG 615
65+00
66+00
67+00
LAT 0.6M BASE DITCH W/1.5M BERM LINED W/CLASS 'B' RIPRAP STA 64+50 LT TO STA 65+70 LT -L- EST DDE = 380.50 CM SEE DETAIL #7
SPECIAL LAT 'V' DITCH LINED W/CLASS 'B' RIPRAP STA 63+80 LT TO STA 64+50 LT -L- SEE DETAIL #11
CLASS 'B' RIPRAP
REMOVE POND
CLASS 'II' RIPRAP ON BANKS ONLY 6.2 MTONS FF=50 SM SEE DETAIL #20
LAT 1.2M BASE DITCH W/1.5M BERM W/CL 'B' RIPRAP STA 65+70 LT TO STA 66+14 LT -L- EST DDE = 94.99 CM SEE DETAIL #24
PREFORMED SCOUR HOLE BASE=1.2M SEE DETAIL SHEET # 2H
CLASS 'I' RIPRAP ON BANKS ONLY 4.5 MTONS FF=36 SM SEE DETAIL #20
GRAU 350
GRADE TO DRAIN
1200mm WOVEN WIRE FENCE
PROP U/G TEL CABLES
TEL PED
TDE
+45.000 50.597m (166.000')
+69.000 52.426m (172.000')
+69.000 36.576 m (120.000')
+69.000 30.480m (100.000')
+59.000 36.296m (119.083')
+39.000 45.996m (150.906')
+44.000 35.877m (117.707')
+60.000 33.528 m (110.000')
+10.000 52.426m (172.000')
+10.000 36.576 m (120.000')
+80.000 36.576 m (120.000')
+00.000 33.528 m (110.00')
+70.000 36.576 m (120.000')
+00.000 33.528 m (110.00')
+70.000 30.480 m (100.000')
+00.000 30.480 m (100.000')
2GI 450
FS
PT Sta. 10+36.030
PC Sta. 10+29.325
CAT-1
375
REMOVE
REMOVE 450 PIPE
JB wSlab Lid
200 PVC
SPRING BOX
1350
N 30°44'51.4" E
-L-
US 501
ACCESS EASEMENT
CLASS 'II' RIPRAP ON BANKS ONLY 8.5 MTONS FF=45.0 SM SEE DETAIL #20
HW
EW
EARTH BERM ELEV=171.2
SPECIAL LAT 'V' DITCH STA 65+80 RT TO STA 66+00 RT -L- SEE DETAIL #6
GEORGE RAYMOND CARTER DB 153 PG 163
+60.000 32.004 m (105.000')
TOE PROTECTION STA 64+00 RT TO STA 64+50 RT -L- SEE DETAIL #8
+40.000 36.576 m (120.000')
CLASS 'I' RIPRAP ON BANKS ONLY 3.5 MTONS FF=30 SM SEE DETAIL #20
LAT 0.9M BASE DITCH W/1.5M BERM W/PSRM STA 64+45 RT TO STA 65+60 RT -L- EST DDE = 251.46 CM SEE DETAIL #25
ROY R. POWELL DB 221 PG 707 DB 221 PG 707 BOM 7 PG 61
LAT 0.6M BASE DITCH W/1.5M BERM STA 65+60 RT TO STA 65+80 RT -L- EST DDE = 29.71 CM SEE DETAIL #16
+44.750 36.576 m (120.000')
+93.000 @ EX. R/W
REM
RETAIN
EX. R/W @ 30.480 m (100.000')
MONTWOOD BAPTIST CHURCH DB 307 PG 663 BOM 12 PG 79
CHARLES F. BROOKS DB 204 PG 396 BOM 5 PG 566
BEGIN CONSTRUCTION POT STA.10+95.511 -Y16-
END CONSTRUCTION POT STA 11+29.622 -Y16-
POT STA.11+72.360
TIE CUL-DE-SAC DITCHES TO EXISTING 'V' DITCH
FORCE PROTECTION INDUSTRIES, INC. DB 641 PG 814
ELMER MERRITT BOWES DB 202 PG 570
POT STA.11+19.022 -Y16-, 7.62 LT CENTER OF CUL-DE-SAC
SR 1521 HALIFAX RD
375 mm CONC
EXISTING R/W
-Y16-
N 32°01.9' E
2400 mm CHL
ISFD
ISBKD

8/17/99

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ktlane AT UC0248010

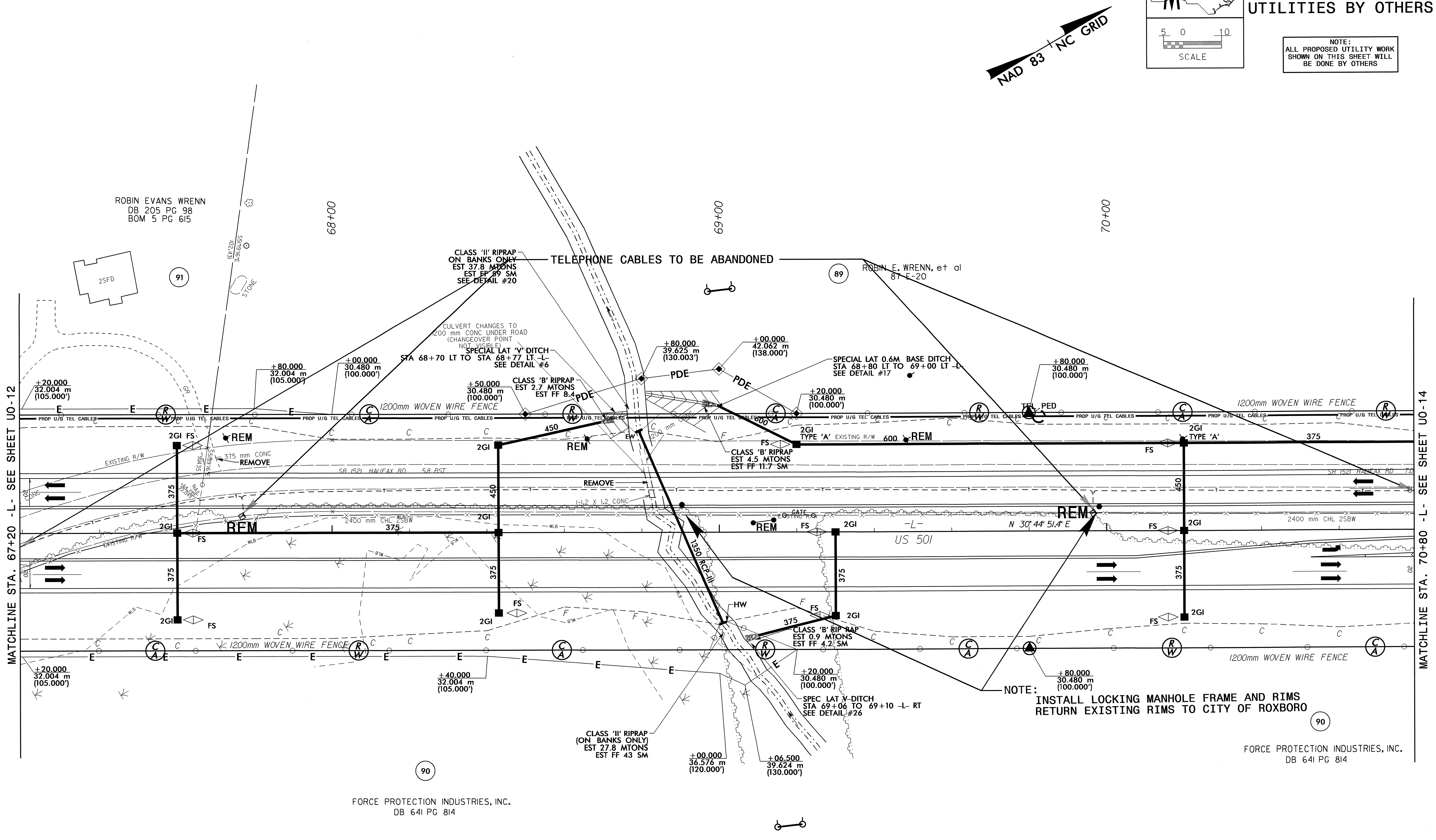
PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UO-13

UTILITIES BY OTHERS

METRIC

5 0 10
SCALE

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


NAD 83 NC GRID
ROBIN EVANS WRENN
DB 205 PG 98
BOM 5 PG 615
91
2SFD
68+00
69+00
70+00
STONE
CLASS 'II' RIPRAP
ON BANKS ONLY
EST 37.8 MTONS
EST FF 59 SM
SEE DETAIL #20
TELEPHONE CABLES TO BE ABANDONED
89
ROBIN E. WRENN, et al
87 E-20
CULVERT CHANGES TO
1200 mm CONC UNDER ROAD
(CHANGEOVER POINT
NOT VISIBLE)
SPECIAL LAT 'V' DITCH
STA 68+70 LT TO STA 68+77 LT -L-
SEE DETAIL #6
+80.000
39.625 m
(130.003')
+00.000
42.062 m
(138.000')
SPECIAL LAT 0.6M BASE DITCH
STA 68+80 LT TO 69+00 LT -L-
SEE DETAIL #17
+80.000
32.004 m
(105.000')
+00.000
30.480 m
(100.000')
+50.000
30.480 m
(100.000')
CLASS 'B' RIPRAP
EST 2.7 MTONS
EST FF 8.4
PDE
+20.000
30.480 m
(100.000')
+80.000
30.480 m
(100.000')
+20.000
32.004 m
(105.000')
1200mm WOVEN WIRE FENCE
TEL PED
PROP U/G TEL CABLES
2GI
FS
REM
375 mm CONC
REMOVE
450
EW
CLASS 'B' RIPRAP
EST 4.5 MTONS
EST FF 11.7 SM
2GI
TYPE 'A'
EXISTING R/W
600
375
SR 1521 HALIFAX RD 5.8 RST
REMOVE
1.2 X 1.2 CONC
GATE
EXISTING R/W
2400 mm CHL 2SBW
REM
-L-
N 30° 44' 51.4" E
US 501
1350 RCP-III
HW
CLASS 'B' RIP RAP
EST 0.9 MTONS
EST FF 4.2 SM
1200mm WOVEN WIRE FENCE
+20.000
32.004 m
(105.000')
+40.000
32.004 m
(105.000')
+20.000
30.480 m
(100.000')
SPEC LAT V-DITCH
STA 69+06 TO 69+10 -L- RT
SEE DETAIL #26
+80.000
30.480 m
(100.000')
NOTE:
INSTALL LOCKING MANHOLE FRAME AND RIMS
RETURN EXISTING RIMS TO CITY OF ROXBORO
90
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
CLASS 'II' RIPRAP
(ON BANKS ONLY)
EST 27.8 MTONS
EST FF 43 SM
+00.000
36.576 m
(120.000')
+06.500
39.624 m
(130.000')
90
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
MATCHLINE STA. 67+20 -L- SEE SHEET UO-12
MATCHLINE STA. 70+80 -L- SEE SHEET UO-14

8/17/99

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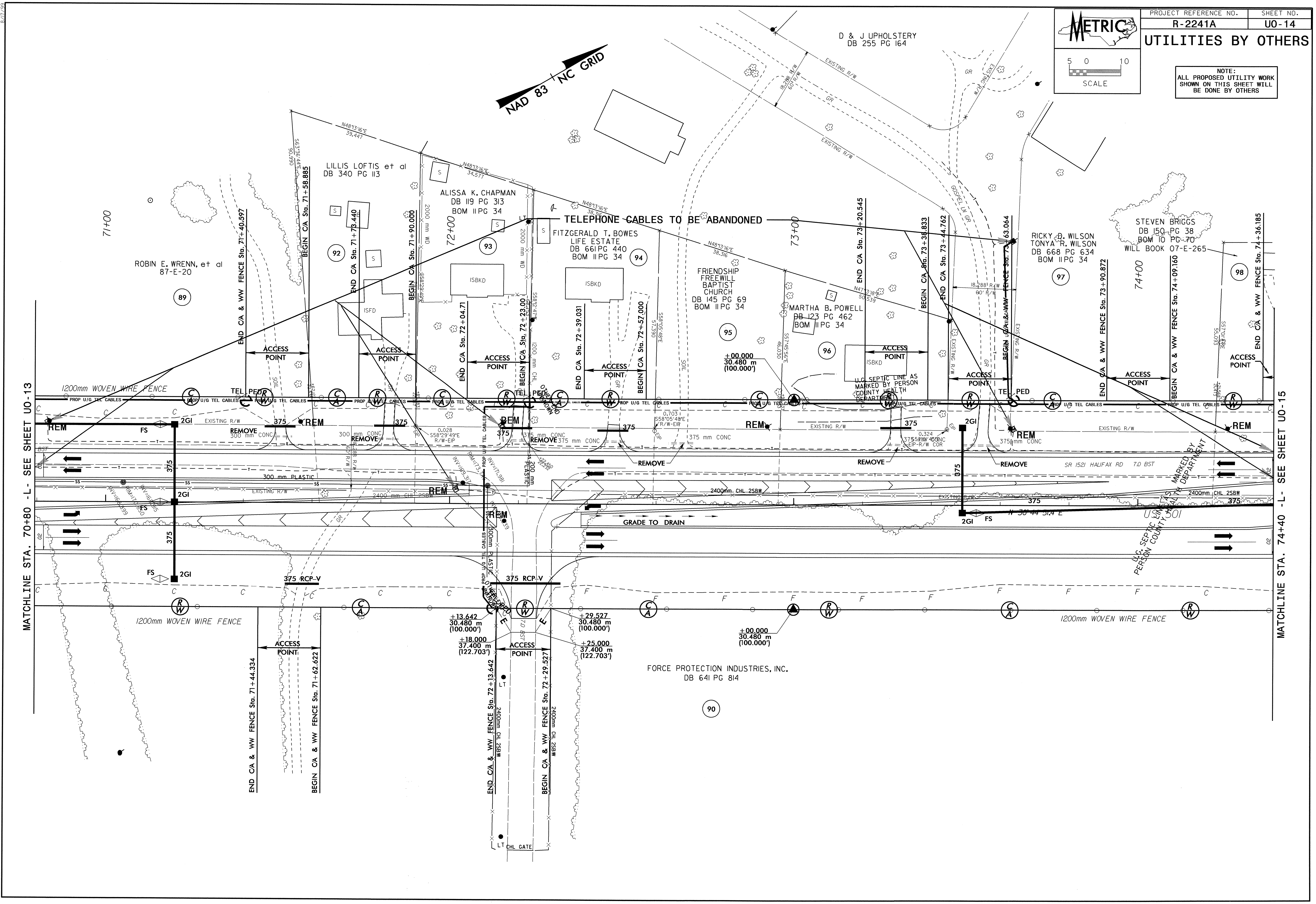
METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UO-14

UTILITIES BY OTHERS

5 0 10
SCALE

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



8/17/99
NAD 83 NC GRID
D & J UPHOLSTERY
DB 255 PG 164
EXISTING R/W
GR
GOSPEL LN GR
LILLIS LOFTIS et al
DB 340 PG 113
ALISSA K. CHAPMAN
DB 119 PG 313
BOM 11 PG 34
FITZGERALD T. BOWES
LIFE ESTATE
DB 661 PG 440
BOM 11 PG 34
FRIENDSHIP FREEWILL BAPTIST CHURCH
DB 145 PG 69
BOM 11 PG 34
MARTHA B. POWELL
DB 123 PG 462
BOM 11 PG 34
RICKY D. WILSON
TONYA R. WILSON
DB 668 PG 634
BOM 11 PG 34
STEVEN BRIGGS
DB 150 PG 38
BOM 10 PG 70
WILL BOOK 07-E-265
ROBIN E. WRENN, et al
87-E-20
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
89
90
92
93
94
95
96
97
98
71+00
72+00
73+00
74+00
N48°13'16"E 39.447
N48°13'16"E 34.577
N48°13'16"E 38.316
N47°13'18"E 50.539
TELEPHONE CABLES TO BE ABANDONED
END C/A & WW FENCE Sta. 71+40.597
BEGIN C/A Sta. 71+58.885
END C/A Sta. 71+73.440
BEGIN C/A Sta. 71+90.000
END C/A Sta. 72+04.71
BEGIN C/A Sta. 72+23.00
END C/A Sta. 72+39.031
BEGIN C/A Sta. 72+57.000
END C/A Sta. 73+20.545
BEGIN C/A Sta. 73+36.833
END C/A Sta. 73+44.762
BEGIN C/A & WW FENCE Sta. 73+63.064
END C/A & WW FENCE Sta. 73+90.872
BEGIN C/A & WW FENCE Sta. 74+09.160
END C/A & WW FENCE Sta. 74+36.185
END C/A & WW FENCE Sta. 71+44.334
BEGIN C/A & WW FENCE Sta. 71+62.622
END C/A & WW FENCE Sta. 72+13.642
BEGIN C/A & WW FENCE Sta. 72+29.527
ACCESS POINT
ISFD
ISBKD
2000 mm WD
1200 mm CHL
1200mm WOVEN WIRE FENCE
TEL PED
PROP U/G TEL CABLES
EXISTING R/W
REM
REMOVE
300 mm CONC
375 mm CONC
375
2GI
FS
300 mm PLASTIC
200 mm PLASTIC
2400 mm CHL 2SBW
375 RCP-V
GRADE TO DRAIN
SR 1521 HALIFAX RD 7.0 BST
US 501
0.028 S58°29'49"E R/W-EIP
0.703 S58°05'48"E R/W-EIP
0.324
EIP-R/W COR
U.G. SEPTIC LINE AS MARKED BY PERSON COUNTY HEALTH DEPARTMENT
U.G. SEPTIC LINES AS MARKED BY PERSON COUNTY HEALTH DEPARTMENT
+00.000 30.480 m (100.000')
+13.642 30.480 m (100.000')
+18.000 37.400 m (122.703')
+29.527 30.480 m (100.000')
+25.000 37.400 m (122.703')
18.288 R/W 60' R/W
2400mm CHL 2SBW
CHL GATE
LT
7.0 BST
MATCHLINE STA. 70+80 -L- SEE SHEET UO-13
MATCHLINE STA. 74+40 -L- SEE SHEET UO-15

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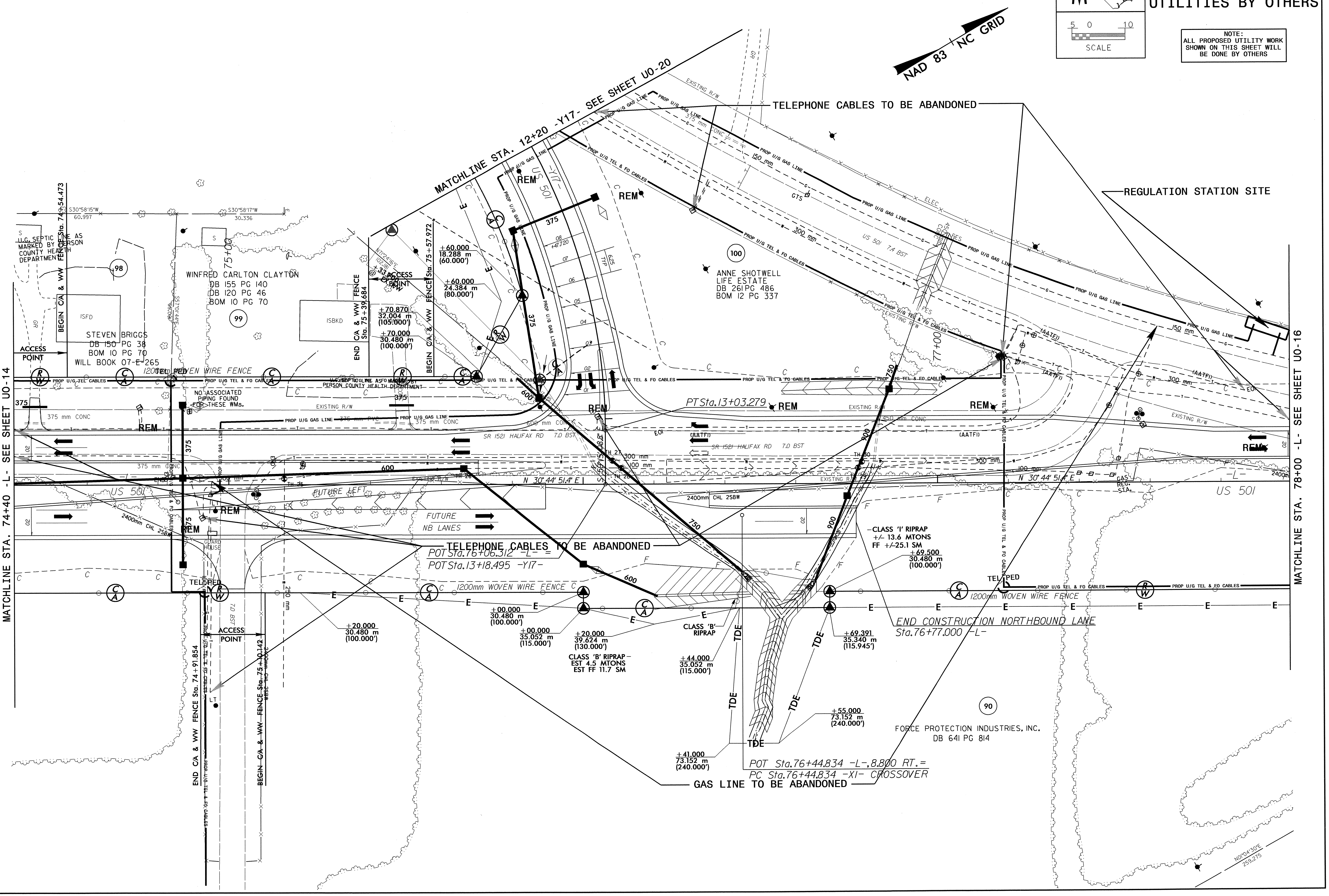
ktlane AT UCU266219

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-15

UTILITIES BY OTHERS

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


5 0 10
SCALE
NAD 83 NC GRID
MATCHLINE STA. 12+20 -Y17- SEE SHEET U0-20
MATCHLINE STA. 74+40 -L- SEE SHEET U0-14
MATCHLINE STA. 78+00 -L- SEE SHEET U0-16
TELEPHONE CABLES TO BE ABANDONED
REGULATION STATION SITE
GAS LINE TO BE ABANDONED
PROP U/G GAS LINE
PROP U/G TEL & FO CABLES
EXISTING R/W
375 mm CONC
150 mm
300 mm
US 501 7.4 BST
ELEC
CTS
REM
U.G. SEPTIC LINE AS MARKED BY PERSON COUNTY HEALTH DEPARTMENT
98
STEVEN BRIGGS
DB 150 PG 38
BOM 10 PG 70
WILL BOOK 07-E-265
99
WINFRED CARLTON CLAYTON
DB 155 PG 140
DB 120 PG 46
BOM 10 PG 70
100
ANNE SHOTWELL
LIFE ESTATE
DB 261 PG 486
BOM 12 PG 337
90
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
S30°58'15"W 60.997
S30°58'17"W 30.336
BEGIN C/A & WW FENCE Sta. 74+54.473
END C/A & WW FENCE Sta. 75+39.684
BEGIN C/A & WW FENCE Sta. 75+57.972
END C/A & WW FENCE Sta. 74+91.854
BEGIN C/A & WW FENCE Sta. 75+10.142
ACCESS POINT
ISFD
ISBKD
+60.000 18.288 m (60.000')
+60.000 24.384 m (80.000')
+70.870 32.004 m (105.000')
+70.000 30.480 m (100.000')
1200mm WOVEN WIRE FENCE
TEL PED
NO ASSOCIATED PIPING FOUND FOR THESE WMs.
375 mm PVC
SR 1521 HALIFAX RD 7.0 BST
PT Sta. 13+03.279
(AATFI)
EOI
US 501
N 30°44'51.4" E
FUTURE LEFT
FUTURE NB LANES
2400mm CHL 2SBW
-L-
GAS REG. STA.
600
375
750
900
TELEPHONE CABLES TO BE ABANDONED
POT Sta. 76+06.312 -L- =
POT Sta. 13+18.495 -Y17-
-CLASS 'I' RIPRAP +/- 13.6 MTONS FF +/-25.1 SM
+69.500 30.480 m (100.000')
END CONSTRUCTION NORTHBOUND LANE Sta. 76+77.000 -L-
+20.000 30.480 m (100.000')
+00.000 30.480 m (100.000')
+00.000 35.052 m (115.000')
+20.000 39.624 m (130.000')
CLASS 'B' RIPRAP - EST 4.5 MTONS EST FF 11.7 SM
CLASS 'B' RIPRAP
+44.000 35.052 m (115.000')
+69.391 35.340 m (115.945')
+55.000 73.152 m (240.000')
+41.000 73.152 m (240.000')
TDE
POT Sta. 76+44.834 -L-, 8.800 RT. =
PC Sta. 76+44.834 -X1- CROSSOVER
250 mm
7.0 BST
N01°04'30"E 259.275

8/17/99

07-FEB-2013 12:55
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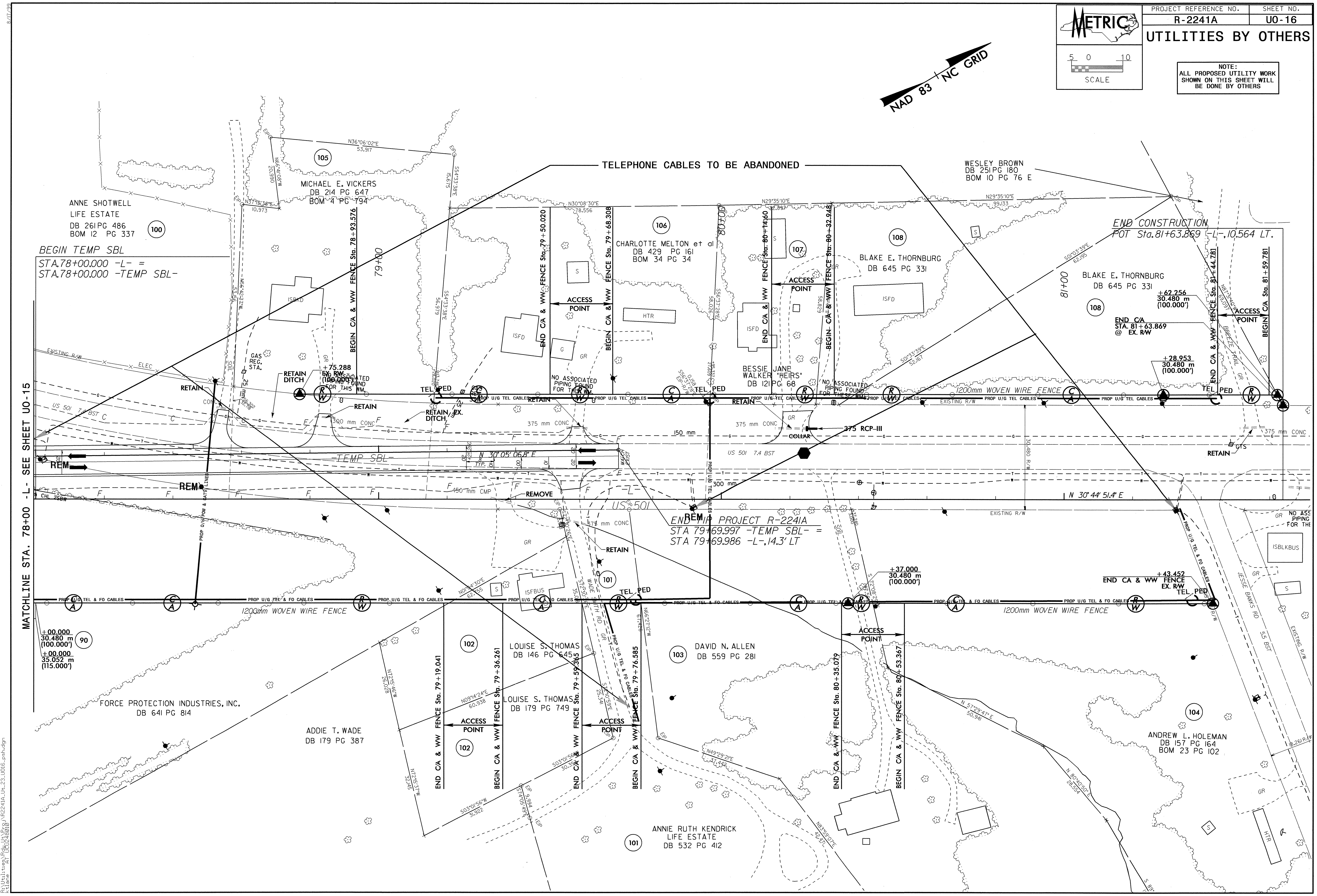
METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-16

UTILITIES BY OTHERS

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


5 0 10
SCALE
NAD 83 NC GRID
TELEPHONE CABLES TO BE ABANDONED
MATCHLINE STA. 78+00 -L- SEE SHEET U0-15
BEGIN TEMP SBL
STA.78+00.000 -L- =
STA.78+00.000 -TEMP SBL-
ANNE SHOTWELL
LIFE ESTATE
DB 261 PG 486
BOM 12 PG 337
100
105
MICHAEL E. VICKERS
DB 214 PG 647
BOM 4 PG 794
N36°06'02"E
53.917
N66°41'08"W
20.990
N37°13'36"E
10.973
S54°33'38"E
15.675
N56°42'37"W
53.156
S54°33'38"E
56.979
EIP
ISBKD
79+00
BEGIN C/A & WW FENCE Sta. 78+93.576
GAS REG. STA.
EXISTING R/W
ELEC
SOIL
25 mm
RETAIN
RETAIN DITCH
+75.288
EX. R/W
(100.000')
NO ASSOCIATED PIPING FOUND FOR THIS WM.
TEL PED
RETAIN
RETAIN EX. DITCH
300 mm CONC
US 501 7.4 BST
CONC
-TEMP SBL-
N 30°05'06.8" E
TYP.
REM
REM
CHL 2SBW
450 mm CMP
PROP O/H POW & CATV LINES
N30°08'30"E
78.556
106
CHARLOTTE MELTON et al
DB 429 PG 161
BOM 34 PG 34
END C/A & WW FENCE Sta. 79+50.020
BEGIN C/A & WW FENCE Sta. 79+68.308
ACCESS POINT
ISFD
S
G
GR
HTR
NO ASSOCIATED PIPING FOUND FOR THIS WM.
PROP U/G TEL CABLES
375 mm CONC
150 mm
MATCH EXIST
REMOVE
80+00
S56°37'28"E
58.026
+95.337
27.609
TEL PED
N29°35'10"E
32.897
107
END C/A & WW FENCE Sta. 80+14.60
BEGIN C/A & WW FENCE Sta. 80+32.948
ACCESS POINT
BESSIE JANE
WALKER "HEIRS"
DB 121 PG 68
NO ASSOCIATED PIPING FOUND FOR THESE WMS.
58.829
375 RCP-III
COLLAR
US 501 7.4 BST
PROP U/G TEL CABLES
300 mm
-L-
US 501
END TIP PROJECT R-2241A
STA 79+69.997 -TEMP SBL- =
STA 79+69.986 -L-, 14.3' LT
108
BLAKE E. THORNBURG
DB 645 PG 331
ISFD
S01°33'39"E
52.167
WESLEY BROWN
DB 251 PG 180
BOM 10 PG 76 E
N29°35'10"E
99.133
EIP
END CONSTRUCTION
POT Sta. 81+63.869 -L-, 10.564 LT.
S01°03'39"E
62.195
81+00
BLAKE E. THORNBURG
DB 645 PG 331
108
+62.256
30.480 m
(100.000')
END C/A
STA. 81+63.869
@ EX. R/W
END C/A & WW FENCE Sta. 81+44.781
BEGIN C/A Sta. 81+59.781
ACCESS POINT
N87°31'40"W
69.097
BREEZE TRAIL
+28.953
30.480 m
(100.000')
1200mm WOVEN WIRE FENCE
TEL PED
EXISTING R/W
PROP U/G TEL CABLES
30.480 R/W
375 mm CONC
GTS
RETAIN
N 30°44'51.4" E
EXISTING R/W
NO ASSOCIATED PIPING FOUND FOR THESE WMS.
GR
ISBLKBUS
PROP U/G TEL & FO CABLES
+43.452
END CA & WW FENCE
EX. R/W
TEL PED
JESSE BANKS RD
5.5 BST
EXISTING R/W
18.261 R/W
104
ANDREW L. HOLEMAN
DB 157 PG 164
BOM 23 PG 102
S
HTR
N 57°29'47" E
50.941
N 80°40'50" E
28.554
+37.000
30.480 m
(100.000')
S 72°08'29"E
47.5
+37.240
3.000
SOIL
ACCESS POINT
END C/A & WW FENCE Sta. 80+35.079
BEGIN C/A & WW FENCE Sta. 80+53.367
103
DAVID N. ALLEN
DB 559 PG 281
N66°27'12"W
67.426
N49°29'21"E
37.442
N83°59'07"E
42.471
101
ANNIE RUTH KENDRICK
LIFE ESTATE
DB 532 PG 412
101
WADE SMITH RD
GR
S72°30'26"E
35.08
S72°10'59"E
25.341
PROP U/G TEL & FO CABLES
TEL PED
RETAIN
375 mm CONC
EIP
ISFBUS
S
N01°04'30"E
62.755
LOUISE S. THOMAS
DB 146 PG 645
LOUISE S. THOMAS
DB 179 PG 749
102
102
END C/A & WW FENCE Sta. 79+59.365
BEGIN C/A & WW FENCE Sta. 79+76.585
ACCESS POINT
S03°01'56"W
30.353
S74°05'49"E
9.994
S03°01'56"W
31.922
N09°14'24"E
60.938
END C/A & WW FENCE Sta. 79+19.041
BEGIN C/A & WW FENCE Sta. 79+36.261
ACCESS POINT
N72°15'46"W
26.028
N72°15'37"W
32.145
ADDIE T. WADE
DB 179 PG 387
FORCE PROTECTION INDUSTRIES, INC.
DB 641 PG 814
PROP U/G TEL & FO CABLES
1200mm WOVEN WIRE FENCE
+00.000
30.480 m
(100.000')
+00.000
35.052 m
(115.000')
90
C A
R W

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PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-17

UTILITIES BY OTHERS

METRIC

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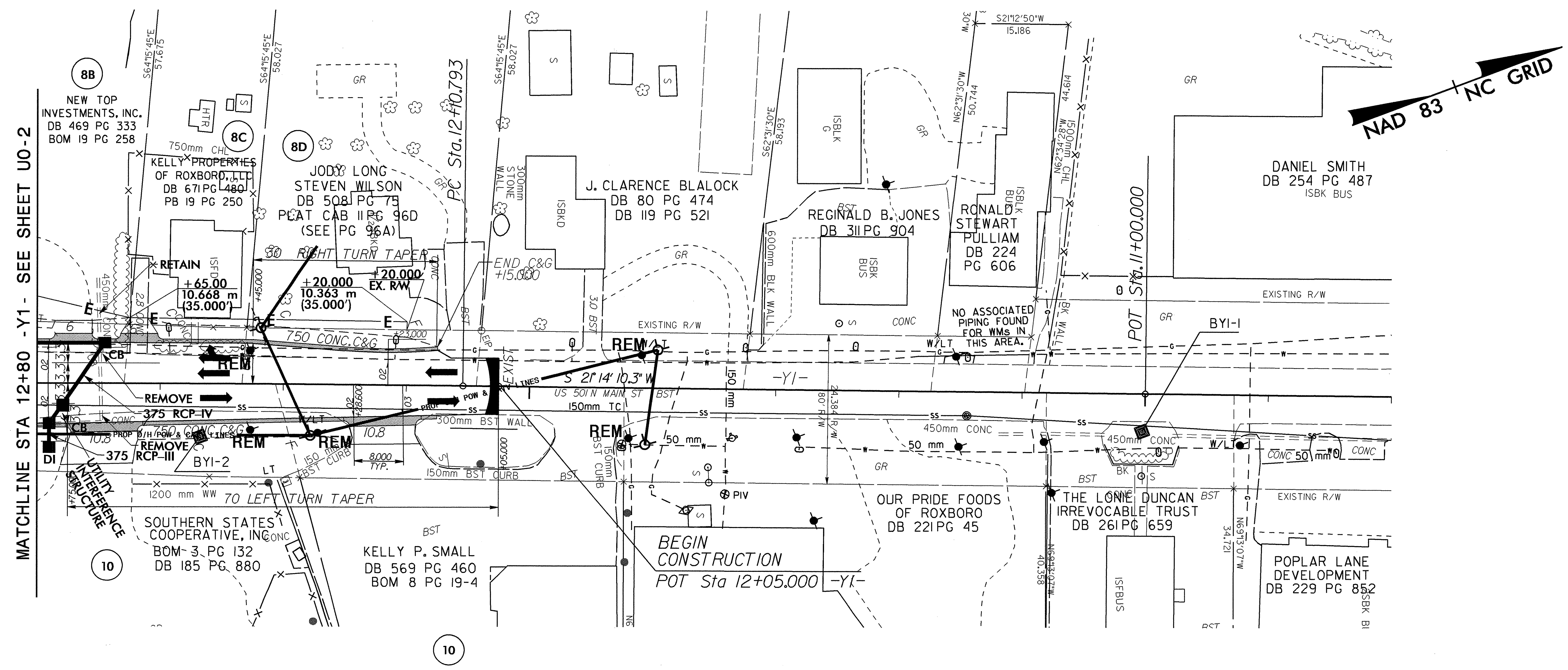
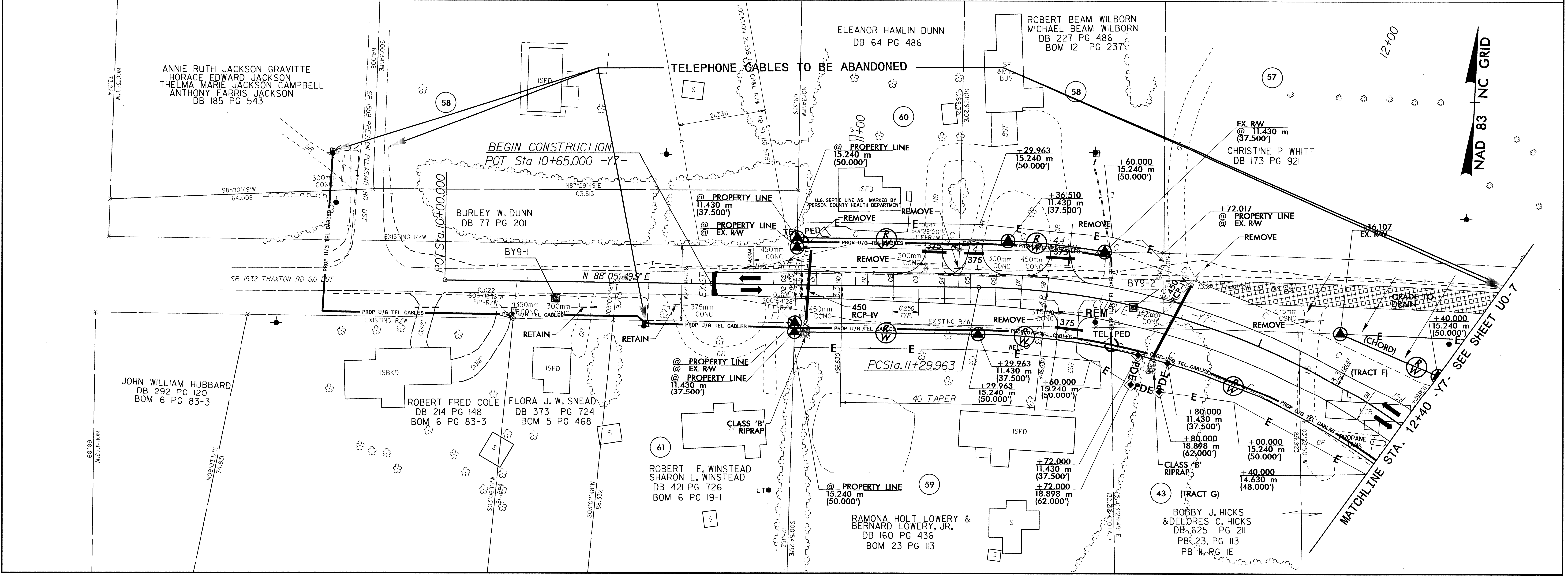
SCALE

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


NAD 83 NC GRID
MATCHLINE STA 12+80 -Y1- SEE SHEET U0-2
8B
NEW TOP INVESTMENTS, INC.
DB 469 PG 333
BOM 19 PG 258
8C
KELLY PROPERTIES OF ROXBORO, LLC
DB 671 PG 480
PB 19 PG 250
8D
JODY LONG
STEVEN WILSON
DB 508 PG 75
PLAT CAB 11 PG 96D
(SEE PG 96A)
PC Sta. 12+10.793
J. CLARENCE BLALOCK
DB 80 PG 474
DB 119 PG 521
REGINALD B. JONES
DB 311 PG 904
RONALD STEWART PULLIAM
DB 224
PG 606
DANIEL SMITH
DB 254 PG 487
POT Sta. 11+00.000
BYI-1
NO ASSOCIATED PIPING FOUND FOR WMs IN THIS AREA.
RETAIN
+65.00
10.668 m
(35.000')
+20.000
10.363 m
(35.000')
+20.000
EX. R/W
30 RIGHT TURN TAPER
END C&G +15.000
750 CONC C&G
REMOVE
375 RCP-IV
375 RCP-III
REM
S 21°14'10.3" W
-Y1-
US 501 N MAIN ST BST
150mm TC
300mm BST WALL
150mm BST CURB
EXISTING R/W
450mm CONC
50 mm
BYI-2
1200 mm WW
70 LEFT TURN TAPER
UTILITY INTERFERENCE STRUCTURE
10
SOUTHERN STATES COOPERATIVE, INC.
BOM 3 PG 132
DB 185 PG 880
KELLY P. SMALL
DB 569 PG 460
BOM 8 PG 19-4
BEGIN CONSTRUCTION
POT Sta 12+05.000 -Y1-
OUR PRIDE FOODS OF ROXBORO
DB 221 PG 45
THE LONIE DUNCAN IRREVOCABLE TRUST
DB 261 PG 659
POPLAR LANE DEVELOPMENT
DB 229 PG 852
PIV


TELEPHONE CABLES TO BE ABANDONED
NAD 83 NC GRID
ANNIE RUTH JACKSON GRAVITTE
HORACE EDWARD JACKSON
THELMA MARIE JACKSON CAMPBELL
ANTHONY FARRIS JACKSON
DB 185 PG 543
58
SR 1589 PRESSON PLEASANT RD BST
BEGIN CONSTRUCTION
POT Sta 10+65.000 -Y7-
POT Sta. 10+00.000
BURLEY W. DUNN
DB 77 PG 201
BY9-1
N 88°05'49.9" E
SR 1532 THAXTON RD 6.0 BST
PROP U/G TEL CABLES
RETAIN
ELEANOR HAMLIN DUNN
DB 64 PG 486
60
ROBERT BEAM WILBORN
MICHAEL BEAM WILBORN
DB 227 PG 486
BOM 12 PG 237
57
CHRISTINE P WHITT
DB 173 PG 921
@ PROPERTY LINE
15.240 m
(50.000')
@ PROPERTY LINE
11.430 m
(37.500')
@ PROPERTY LINE
@ EX. R/W
U.G. SEPTIC LINE AS MARKED BY PERSON COUNTY HEALTH DEPARTMENT
REMOVE
TEL PED
450 RCP-IV
+29.963
15.240 m
(50.000')
+36.510
11.430 m
(37.500')
+60.000
15.240 m
(50.000')
+72.017
@ PROPERTY LINE
@ EX. R/W
+16.107
EX. R/W
EX. R/W
@ 11.430 m
(37.500')
BY9-2
-Y7-
GRADE TO DRAIN
+40.000
15.240 m
(50.000')
(CHORD)
(TRACT F)
MATCHLINE STA. 12+40 -Y7- SEE SHEET U0-7
PROPANE TANK
PCSta. 11+29.963
40 TAPER
CLASS 'B' RIPRAP
PDE
JOHN WILLIAM HUBBARD
DB 292 PG 120
BOM 6 PG 83-3
ROBERT FRED COLE
DB 214 PG 148
BOM 6 PG 83-3
FLORA J. W. SNEAD
DB 373 PG 724
BOM 5 PG 468
61
ROBERT E. WINSTEAD
SHARON L. WINSTEAD
DB 421 PG 726
BOM 6 PG 19-1
59
RAMONA HOLT LOWERY &
BERNARD LOWERY, JR.
DB 160 PG 436
BOM 23 PG 113
43
(TRACT G)
BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 211
PB 23 PG 113
PB 11 PG 1E
+80.000
11.430 m
(37.500')
+80.000
18.898 m
(62.000')
+00.000
15.240 m
(50.000')
+40.000
14.630 m
(48.000')
+72.000
11.430 m
(37.500')
+72.000
18.898 m
(62.000')

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PROJECT REFERENCE NO.	SHEET NO.
R-2241A	U0-18

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
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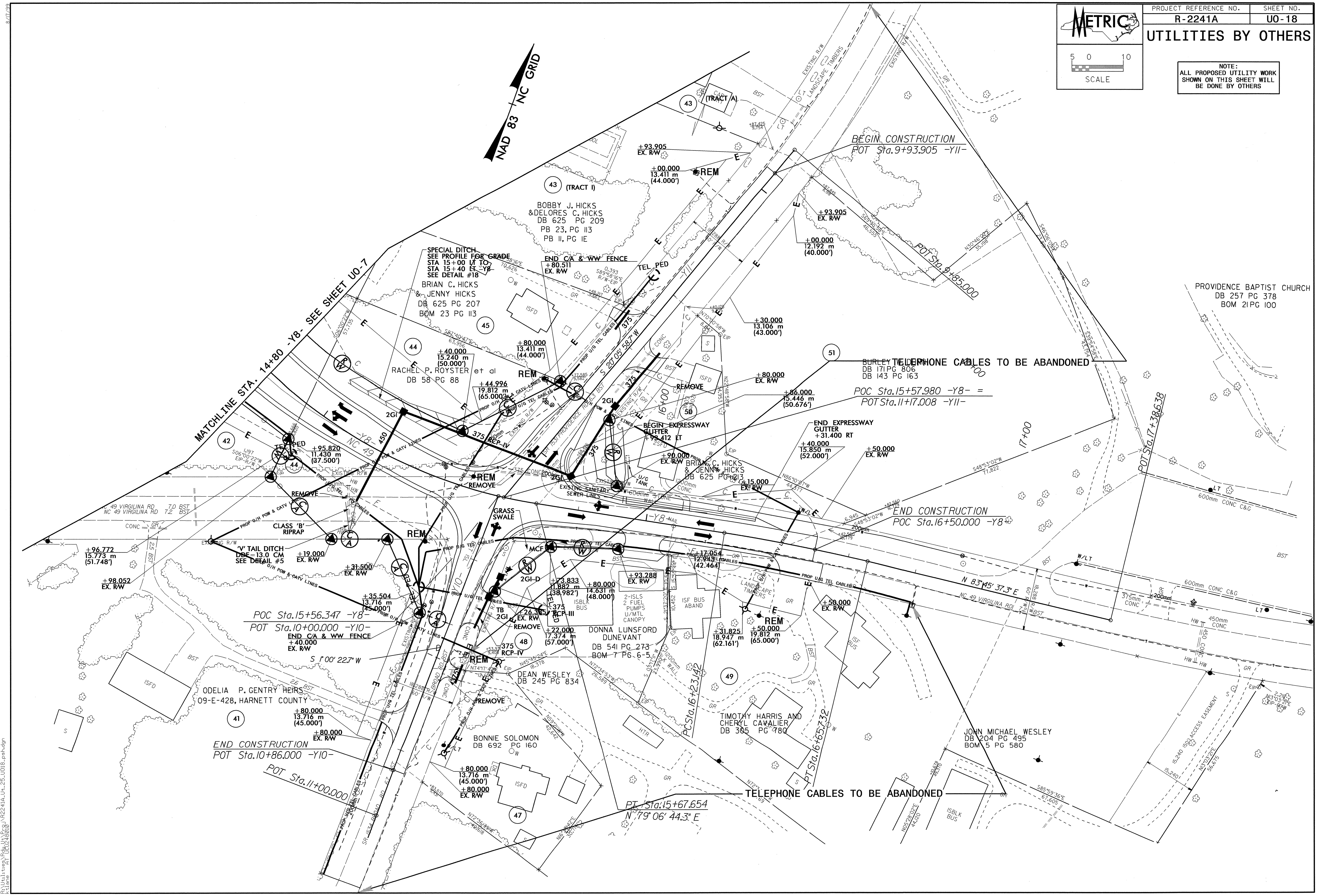
METRIC
5 0 10
SCALE
NAD 83 NC GRID
MATCHLINE STA. 14+80 -Y8- SEE SHEET U0-7
BEGIN CONSTRUCTION
POT Sta.9+93.905 -Y11-
POT Sta.9+85.000
BOBBY J. HICKS
&DELORES C. HICKS
DB 625 PG 209
PB 23, PG 113
PB 11, PG 1E
(TRACT I)
(TRACT A)
SPECIAL DITCH
SEE PROFILE FOR GRADE
STA 15+00 LT TO
STA 15+40 LT -Y8-
SEE DETAIL #18
BRIAN C. HICKS
& JENNY HICKS
DB 625 PG 207
BOM 23 PG 113
RACHEL P. ROYSTER et al
DB 58 PG 88
END C/A & WW FENCE
TEL. PED
S 20°05' 58.7" W
TELEPHONE CABLES TO BE ABANDONED
BURLEY T. ELLEN
DB 171 PG 806
DB 143 PG 163
POC Sta.15+57.980 -Y8- =
POT Sta.11+17.008 -Y11-
BEGIN EXPRESSWAY GUTTER
END EXPRESSWAY GUTTER
BRIAN C. HICKS
& JENNY HICKS
DB 625 PG 213
PROVIDENCE BAPTIST CHURCH
DB 257 PG 378
BOM 21 PG 100
POT Sta.17+38.638
END CONSTRUCTION
POC Sta.16+50.000 -Y8-
N 83°45' 37.3" E
NC 49 VIRGILINA RD
-Y8-
NC 49
NC 49 VIRGILINA RD 7.0 BST
NC 49 VIRGILINA RD 7.2 BST
CLASS 'B' RIPRAP
'V' TAIL DITCH
DDE=13.0 CM
SEE DETAIL #5
GRASS SWALE
EXISTING SANITARY SEWER LINES
PROP U/G TEL CABLES
PROP O/H POW & CATV LINES
REMOVE
REM
2GI
2GI-D
MCF
375 RCP-IV
375 RCP-III
POC Sta.15+56.347 -Y8-
POT Sta.10+00.000 -Y10-
END C/A & WW FENCE
S 1°00' 22.7" W
ODELIA P. GENTRY HEIRS
09-E-428, HARNETT COUNTY
END CONSTRUCTION
POT Sta.10+86.000 -Y10-
POT Sta.11+00.000
DONNA LUNSFORD
DUNEVANT
DB 541 PG 273
BOM 7 PG 6-5
DEAN WESLEY
DB 245 PG 834
BONNIE SOLOMON
DB 692 PG 160
2-ISLS 2 FUEL PUMPS U/MTL CANOPY
ISF BUS ABAND
LANDSCAPE TIMBERS
PC Sta.16+23.142
PT Sta.16+65.732
PT Sta.15+67.654
N 79°06' 44.3" E
TIMOTHY HARRIS AND
CHERYL CAVALIER
DB 305 PG 780
JOHN MICHAEL WESLEY
DB 204 PG 495
BOM 5 PG 580
15.240 ISO ACCESS EASEMENT
600mm CONC C&G
450mm CONC
375mm CONC
41
42
43
44
45
47
48
49
50
51
+93.905 EX. R/W
+00.000 13.411 m (44.000')
+00.000 12.192 m (40.000')
+30.000 13.106 m (43.000')
+80.000 EX. R/W
+86.000 15.446 m (50.676')
+40.000 15.850 m (52.000')
+50.000 EX. R/W
+15.000 EX. R/W
+80.000 13.411 m (44.000')
+40.000 15.240 m (50.000')
+44.996 19.812 m (65.000')
+95.820 11.430 m (37.500')
+96.772 15.773 m (51.748')
+98.052 EX. R/W
+19.000 EX. R/W
+31.500 EX. R/W
+35.504 13.716 m (45.000')
+73.833 11.882 m (38.982')
+80.000 14.631 m (48.000')
+93.288 EX. R/W
+17.054 12.943 m (42.464')
+50.000 EX. R/W
+50.000 19.812 m (65.000')
+31.825 18.947 m (62.161')
+22.000 17.374 m (57.000')
+26.385 EX. R/W
+80.000 13.716 m (45.000')
+80.000 EX. R/W
ISFD
ISBLK BUS
16+00
17+00

PROJECT REFERENCE NO.	SHEET NO.
R-2241A	UO-19

UTILITIES BY OTHERS

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SCALE

**NOTE:
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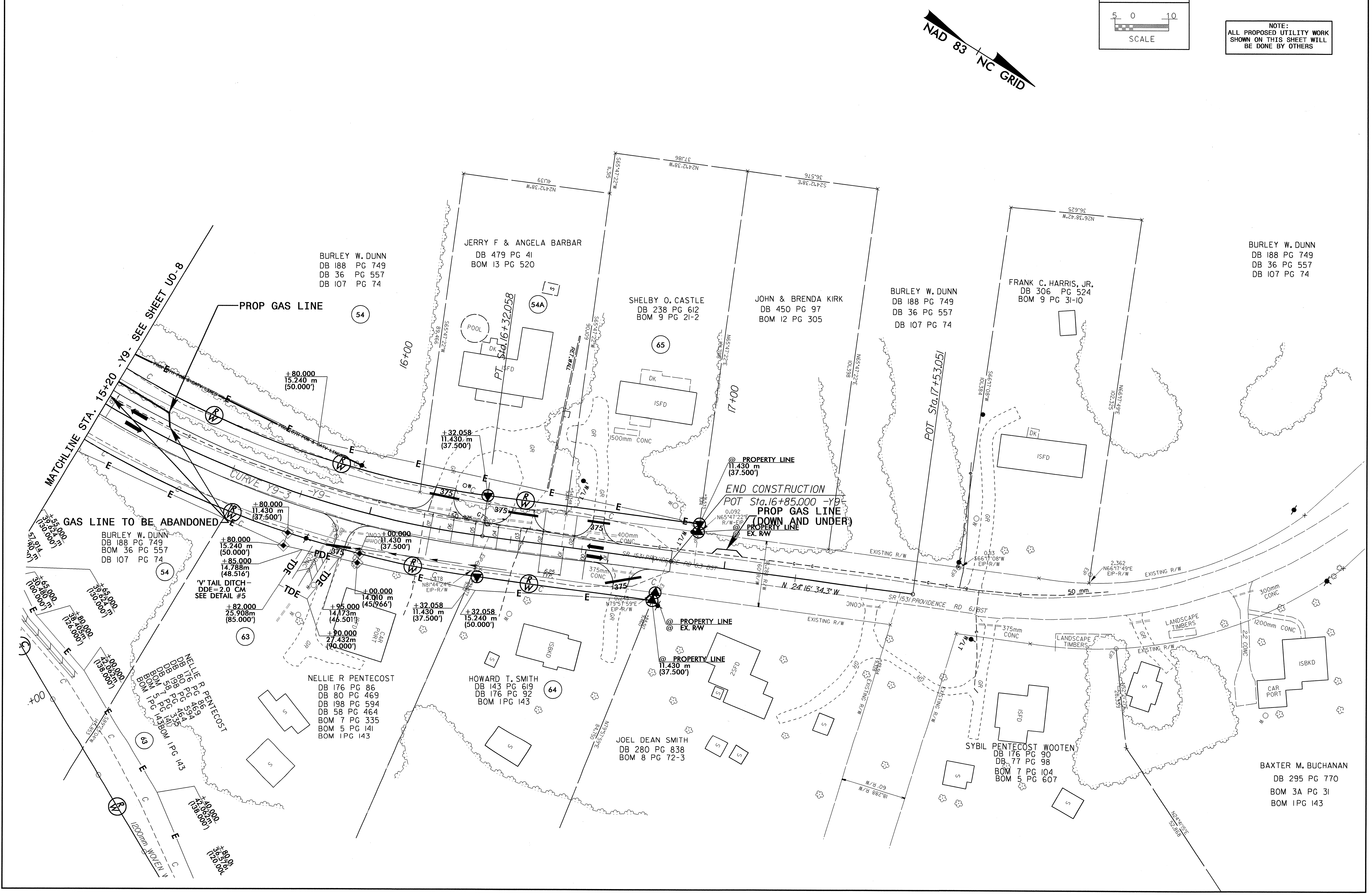

NAD 83 NC GRID
MATCHLINE STA. 15+20 -Y9- SEE SHEET UO-8
PROP GAS LINE
GAS LINE TO BE ABANDONED
PROP GAS LINE (DOWN AND UNDER)
END CONSTRUCTION
POT Sta.16+85.000 -Y9-
PT Sta.16+32.058
POT Sta.17+53.051
CURVE Y9-3 -Y9-
16+00
17+00
N 24°16' 34.3" W
SR 1531 PROVIDENCE RD
EXISTING R/W
'V' TAIL DITCH- DDE=2.0 CM SEE DETAIL #5
TDE
@ PROPERTY LINE 11.430 m (37.500')
@ PROPERTY LINE @ EX. R/W
+80.000 15.240 m (50.000')
+32.058 11.430 m (37.500')
+80.000 11.430 m (37.500')
+85.000 14.788m (48.516')
+82.000 25.908m (85.000')
+00.000 11.430 m (37.500')
+00.000 14.010 m (45.966')
+95.000 14.173m (46.501')
+90.000 27.432m (90.000')
+32.058 15.240 m (50.000')
+32.058 11.430 m (37.500')
BURLEY W. DUNN DB 188 PG 749 DB 36 PG 557 DB 107 PG 74
54
JERRY F & ANGELA BARBAR DB 479 PG 41 BOM 13 PG 520
54A
SHELBY O. CASTLE DB 238 PG 612 BOM 9 PG 21-2
65
JOHN & BRENDA KIRK DB 450 PG 97 BOM 12 PG 305
FRANK C. HARRIS, JR. DB 306 PG 524 BOM 9 PG 31-10
BURLEY W. DUNN DB 188 PG 749 BOM 36 PG 557 DB 107 PG 74
NELLIE R PENTECOST DB 176 PG 86 DB 80 PG 469 DB 198 PG 594 DB 58 PG 464 BOM 7 PG 335 BOM 5 PG 141 BOM 1PG 143
63
HOWARD T. SMITH DB 143 PG 619 DB 176 PG 92 BOM 1PG 143
64
JOEL DEAN SMITH DB 280 PG 838 BOM 8 PG 72-3
SYBIL PENTECOST WOOTEN DB 176 PG 90 DB 77 PG 98 BOM 7 PG 104 BOM 5 PG 607
BAXTER M. BUCHANAN DB 295 PG 770 BOM 3A PG 31 BOM 1PG 143
POOL
ISFD
DK
CAR PORT
ISBKD
2SFD
LANDSCAPE TIMBERS
1500mm CONC
400mm CONC
375mm CONC
300mm CONC
1200mm CONC
1200mm WOVEN W
50 mm
375
R/W
E
C
GR

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PROJECT REFERENCE NO.	SHEET NO.
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UTILITIES BY OTHERS

NOTE:
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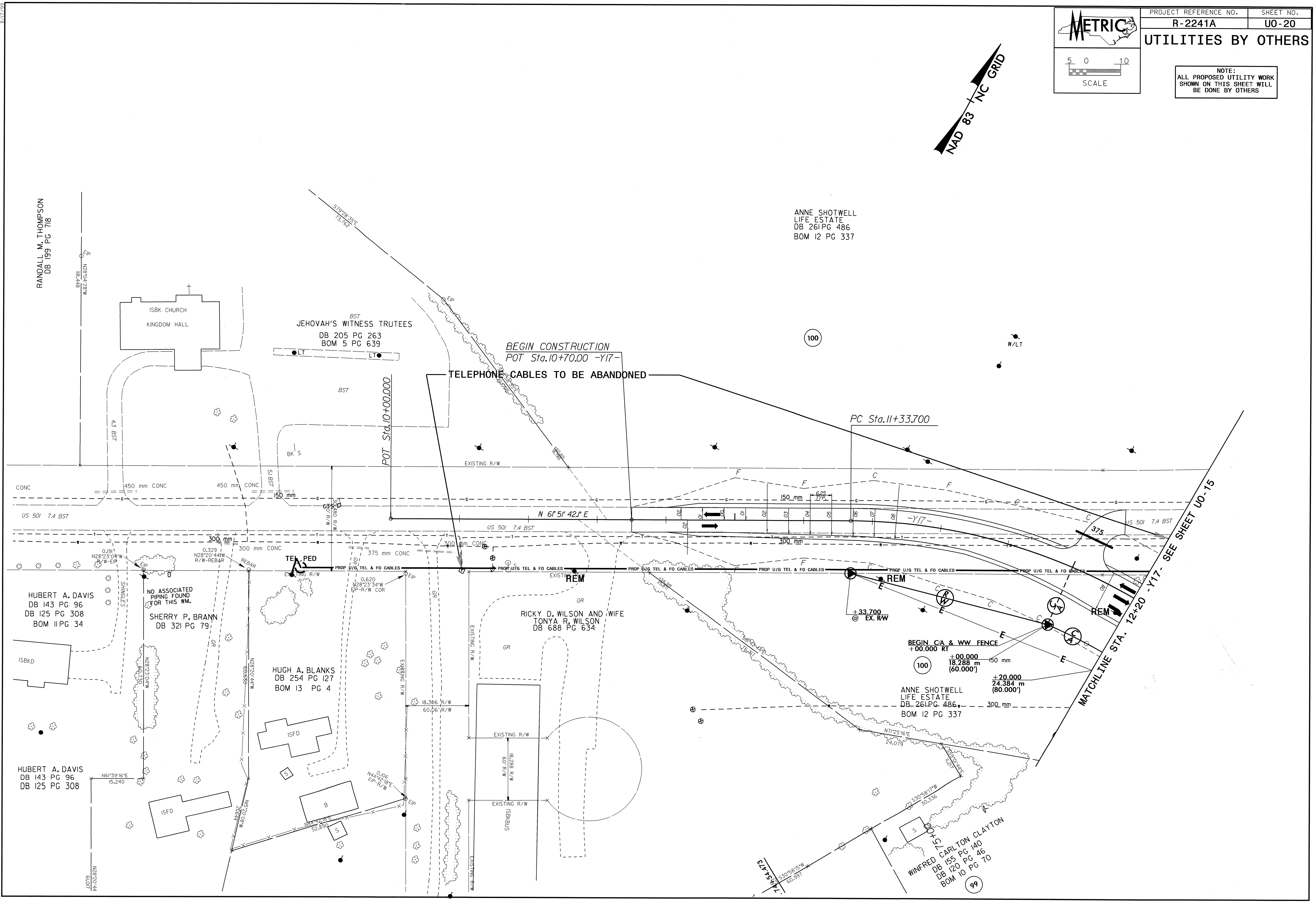

METRIC
5 0 10
SCALE
NAD 83 NC GRID
RANDALL M. THOMPSON
DB 199 PG 718
N28°04'28"W
18.448
EIP
ISBK CHURCH
KINGDOM HALL
BST
JEHOVAH'S WITNESS TRUTEES
DB 205 PG 263
BOM 5 PG 639
LT
LT
S79°28'35"E
73.762
EIP
BEGIN CONSTRUCTION
POT Sta.10+70.00 -Y17-
TELEPHONE CABLES TO BE ABANDONED
ANNE SHOTWELL
LIFE ESTATE
DB 261 PG 486
BOM 12 PG 337
100
W/LT
PC Sta.11+33.700
POT Sta.10+00.000
4.3 BST
5.1 BST
BK S
EXISTING R/W
CONC
450 mm CONC
450 mm CONC
150 mm
150 mm
6.25
LTP
US 501 7.4 BST
N 61°51'42.1" E
US 501 7.4 BST
-Y17-
375
US 501 7.4 BST
300 mm
300 mm CONC
375 mm CONC
300 mm CONC
300 mm
18.480 R/W
60' R/W
0.191
N28°23'04"W
R/W-EIP
0.329
N28°20'44"W
R/W-REBAR
REBAR
TEL PED
EXISTING R/W
0.620
N28°23'34"W
EIP-R/W COR
EIP
PROP U/G TEL & FO CABLES
PROP U/G TEL & FO CABLES
PROP U/G TEL & FO CABLES
PROP U/G TEL & FO CABLES
PROP U/G TEL & FO CABLES
PROP U/G TEL & FO CABLES
EXISTING R/W
REM
REM
REM
NO ASSOCIATED PIPING FOUND FOR THIS WM.
HUBERT A. DAVIS
DB 143 PG 96
DB 125 PG 308
BOM 11 PG 34
SHERRY P. BRANN
DB 321 PG 79
SHINGLES
GR
GR
GR
GR
RICKY D. WILSON AND WIFE
TONYA R. WILSON
DB 688 PG 634
EXISTING R/W
+33.700
@ EX. R/W
BEGIN C/A & WW FENCE
+00.000 RT
+00.000
18.288 m
(60.000')
150 mm
100
+20.000
24.384 m
(80.000')
ANNE SHOTWELL
LIFE ESTATE
DB 261 PG 486
BOM 12 PG 337
300 mm
MATCHLINE STA. 12+20 -Y17- SEE SHEET U0-15
ISBKD
N28°23'04"W
HUGH A. BLANKS
DB 254 PG 127
BOM 13 PG 4
N28°20'44"W
EXISTING R/W
18.306 R/W
60.06' R/W
EXISTING R/W
18.288 R/W
60' R/W
EXISTING R/W
ISBKBUS
EXISTING R/W
ISFD
ISFD
S
B
S
N44°42'18"E
EIP-R/W
N44°42'18"E
52.890
EIP
HUBERT A. DAVIS
DB 143 PG 96
DB 125 PG 308
N61°39'16"E
15.240
N28°20'44
61.017
N71°25'16"E
24.079
S59°01'44"E
11.217
S30°58'17"W
30.336
S30°58'15"W
60.997
7+54.473
15+00
WINFRED CARLTON CLAYTON
DB 155 PG 140
DB 120 PG 46
BOM 10 PG 70
99
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