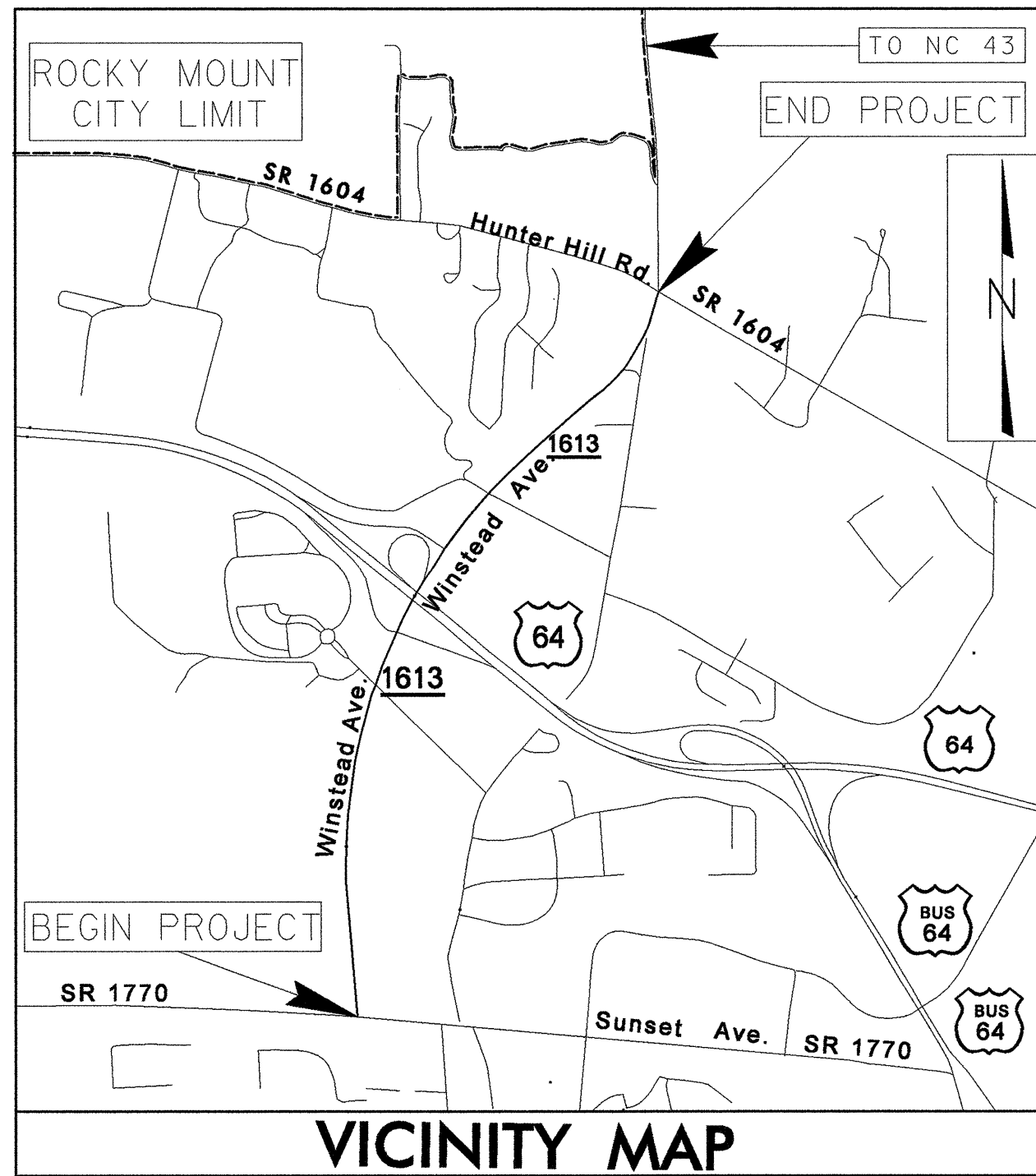


TIP PROJECT: U-4019

CONTRACT:

See Sheet 1-A For Index of Sheets

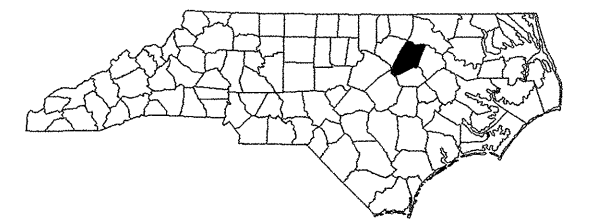


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NASH COUNTY

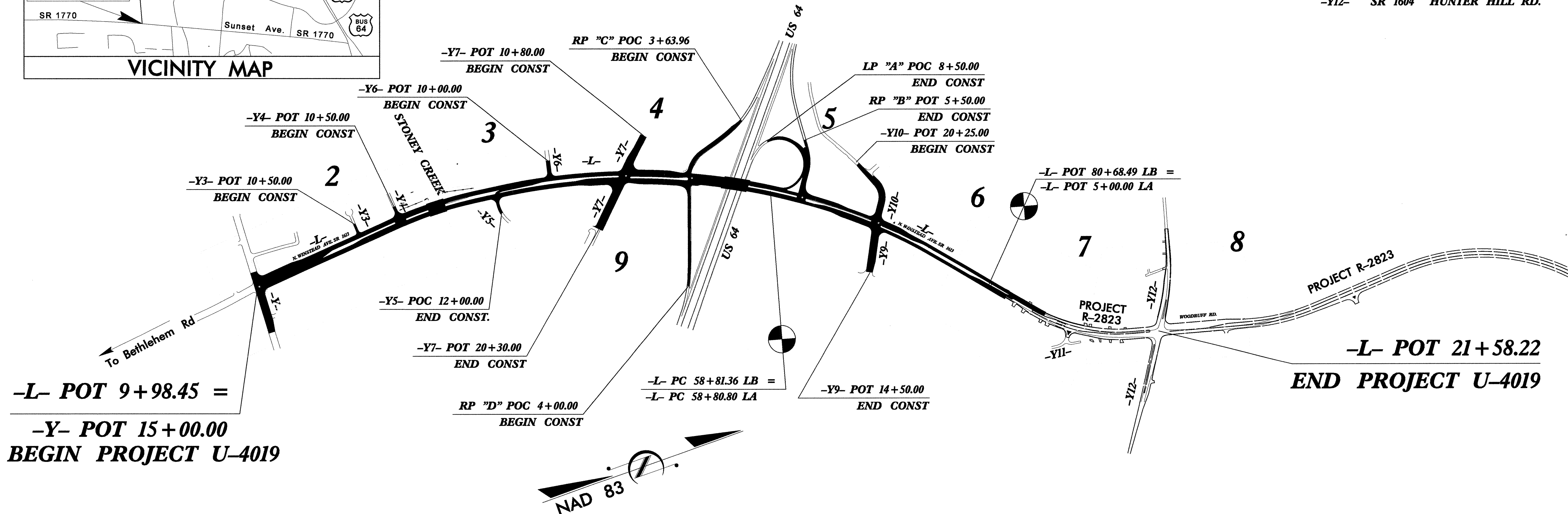
**LOCATION: SR-1613 (N. WINSTEAD AVE.) FROM SR-1770 (SUNSET AVE.)
TO SR-1604 (HUNTER HILL RD.)**

TYPE OF WORK: UTILITY CONSTRUCTION

T.I.P. NO.	SHEET NO.
U-4019	UC-1



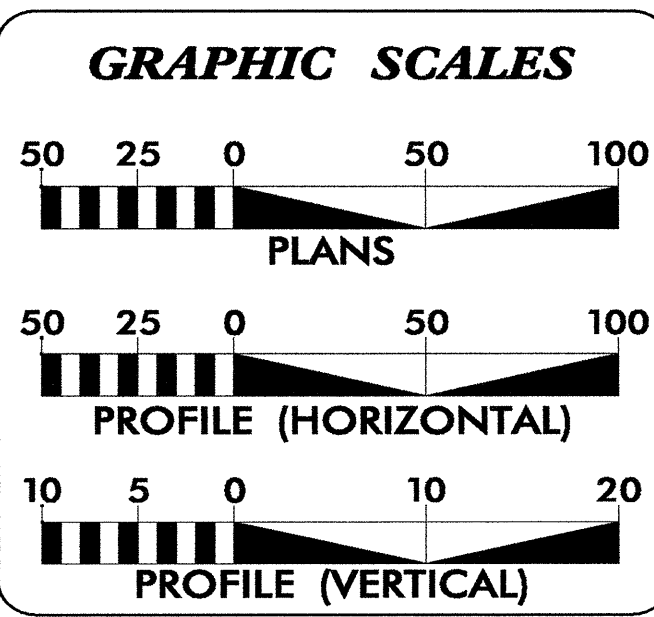
- Y- SR 1770 SUNSET AVE.
- Y3- WOODRIDGE CT.
- Y4- ALEXANDER DR.
- Y5- PROFESSIONAL DR.
- Y6- EXECUTIVE DR.
- Y7- CURTIS ELLIS DR.
- Y9- SR 1614 ENGLISH RD.
- Y10- SR 1614 ENGLISH RD.
- Y11- SHEARIN ANDREW RD
- Y12- SR 1604 HUNTER HILL RD.



**-L- POT 9+98.45 =
-Y- POT 15+00.00
BEGIN PROJECT U-4019**

**-L- POT 21+58.22
END PROJECT U-4019**

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDRIES OF ROCKY MOUNT
CLEANING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-9	UTILITY CONSTRUCTION PLAN SHEETS
UC-10	PROFILE SHEET
UC-11	DETAILS SHEET

WATER AND SEWER OWNERS ON PROJECT

(1) WATER - CITY OF ROCKY MOUNT
(2) SANITARY SEWER - CITY OF ROCKY MOUNT

PREPARED BY:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

PREPARED FOR:
DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

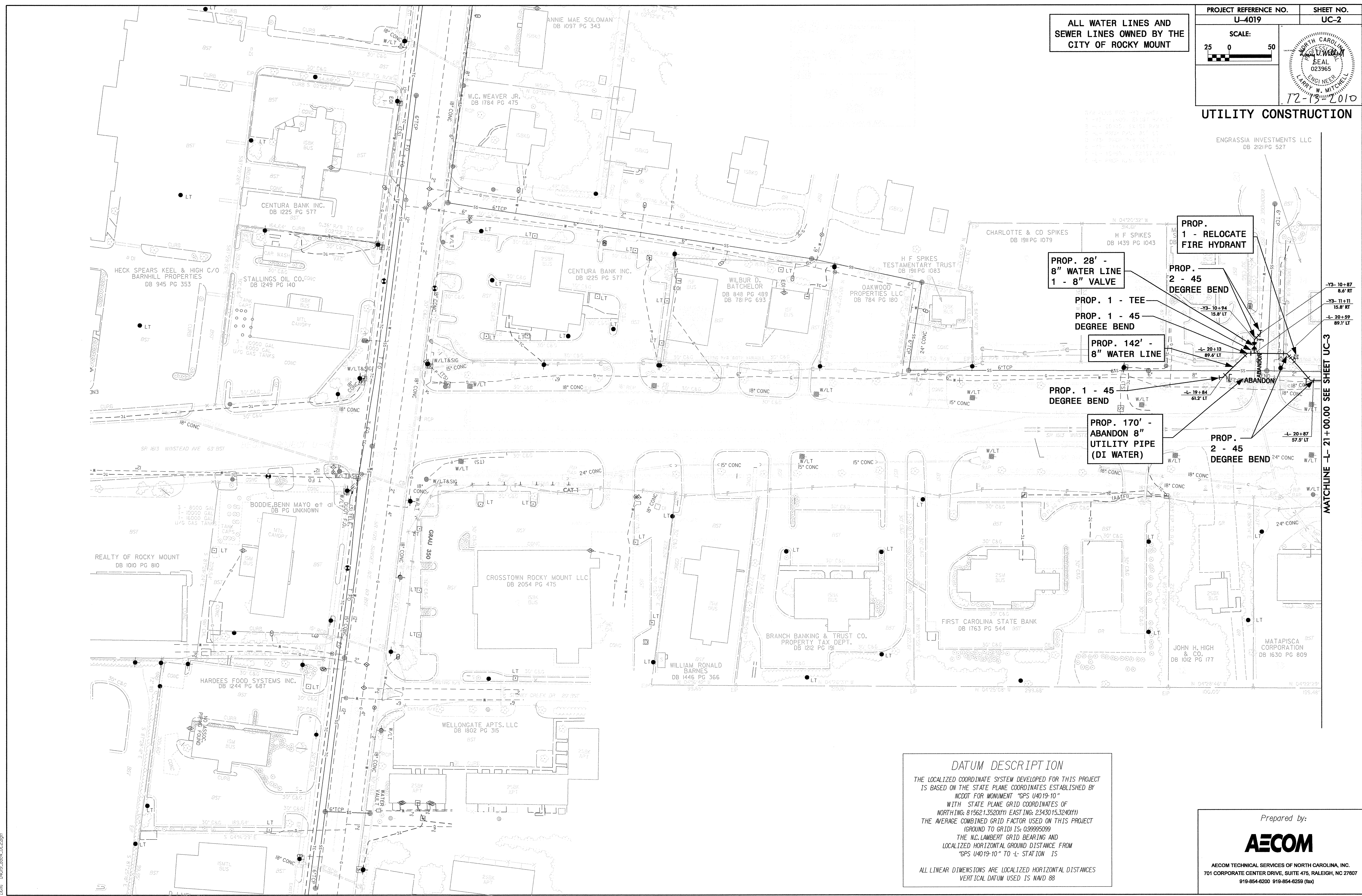
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
R. B. Wilkins, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
AECOM Tech. Services UTILITIES PROJECT DESIGNER

*****SYTIMESSSS
*****DONS*****
*****PUB*****

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

UTILITY CONSTRUCTION



- PROP. 1 - RELOCATE FIRE HYDRANT
- PROP. 28' - 8" WATER LINE 1 - 8" VALVE
- PROP. 1 - TEE
- PROP. 1 - 45 DEGREE BEND
- PROP. 142' - 8" WATER LINE
- PROP. 1 - 45 DEGREE BEND
- PROP. 170' - ABANDON 8" UTILITY PIPE (DI WATER)
- PROP. 2 - 45 DEGREE BEND

MATCHLINE -L- 21 + 00.00 SEE SHEET UC-3

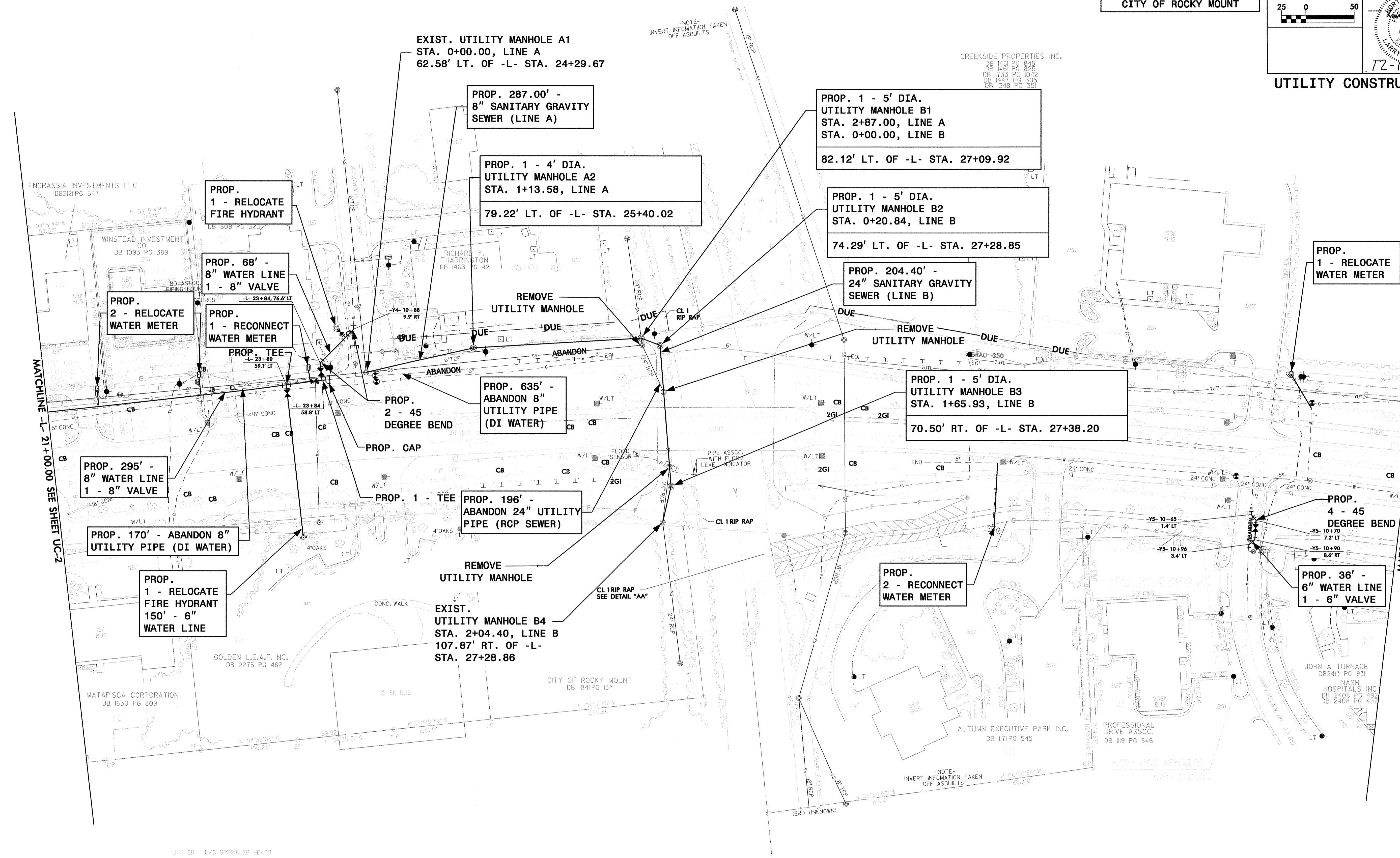
DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS U4019-10" WITH STATE PLANE GRID COORDINATES OF NORTHING: 815621.3520(f) EASTING: 2343015.3240(f) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995099 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS U4019-10" TO L- STATION IS ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared by:
AECOM
 AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
 701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-6200 919-854-6259 (fax)

DATE: 10/13/2010
 DRAWN: 10/03/2010 UC2.dwg

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

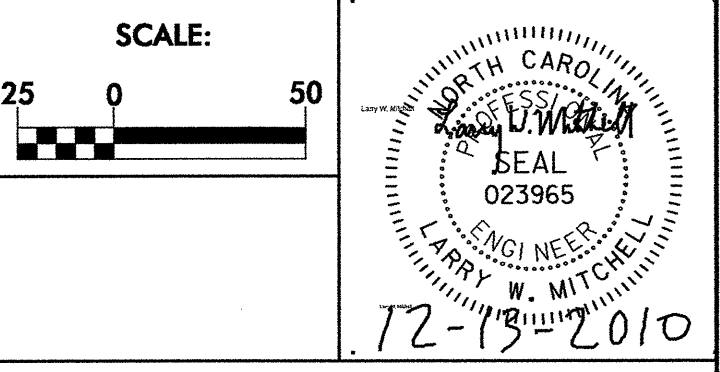
UTILITY CONSTRUCTION



MATCHLINE -L- 21+00.00 SEE SHEET UC-2

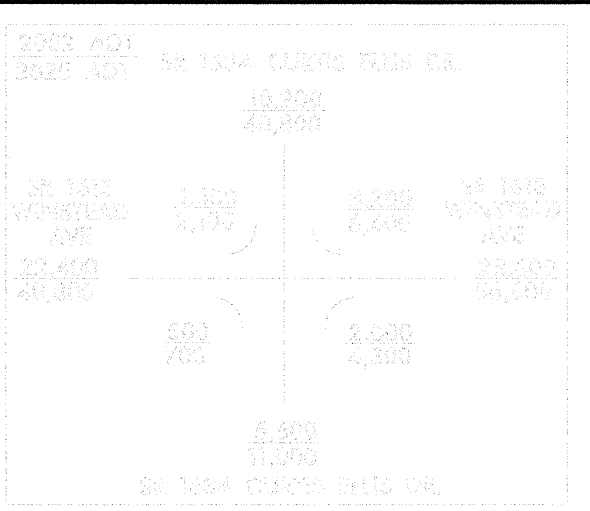
MATCHLINE -L- 35+00.00 SEE SHEET UC-4

DATE: 12/12/2010
DWG: U4019_UC3.dwg



ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

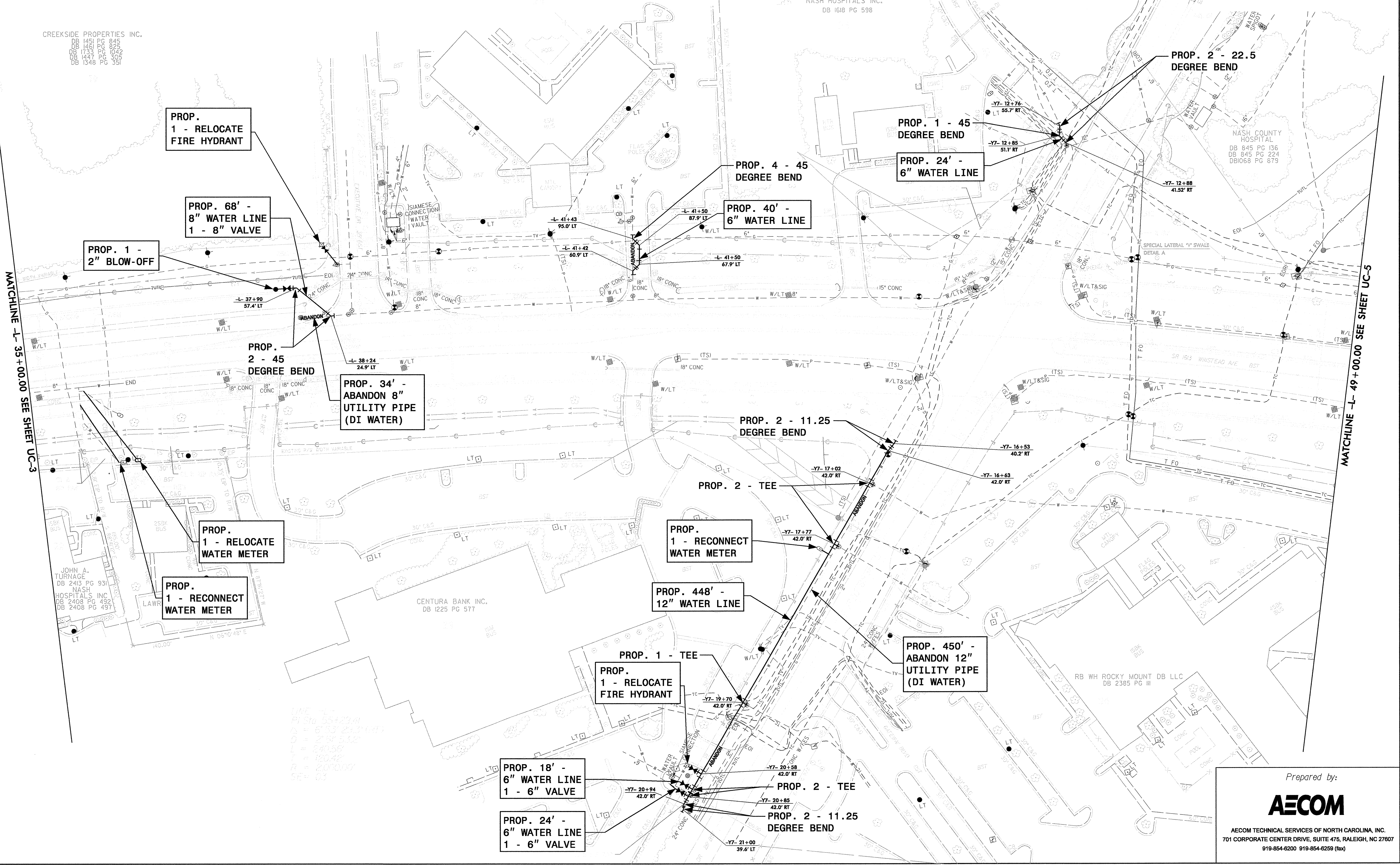
UTILITY CONSTRUCTION



FCM ASSOCIATES
ROCKY MOUNT, INC.
D.B.A. HAMPTON INN
DB 1447 PG 303

NASH HOSPITALS INC.
DB 1618 PG 598

CREEKSIDE PROPERTIES INC.
DB 1451 PG 845
DB 1461 PG 825
DB 1733 PG 1045
DB 1437 PG 805
DB 1348 PG 351



MATCHLINE -L- 35+00.00 SEE SHEET UC-3

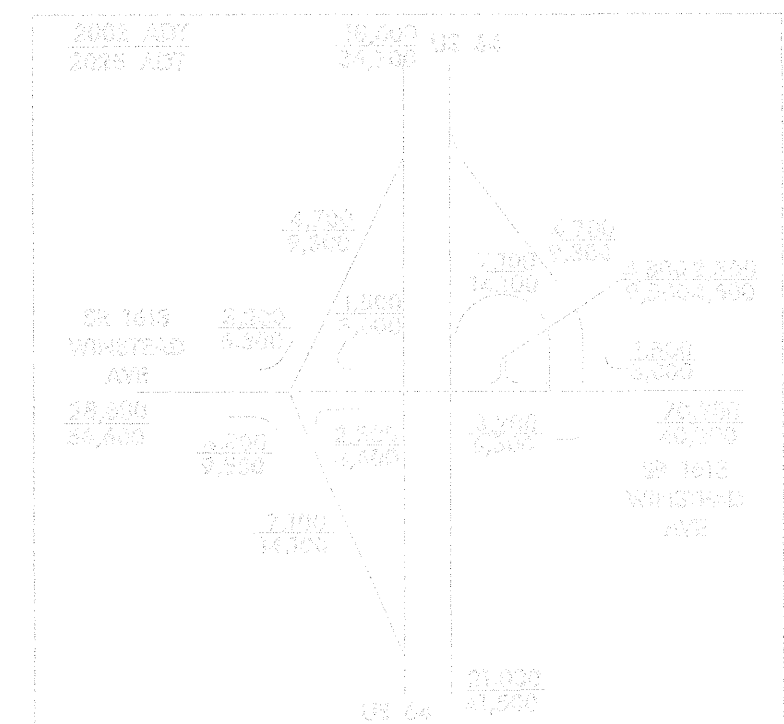
MATCHLINE -L- 49+00.00 SEE SHEET UC-5

DATE: 12/12/2010
DRAWN: UC02.dwg UC-4.dwg

Prepared by:
AECOM
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6258 (fax)

LINE RAMP 'E'

PI Sta 3+51.25	PI Sta 5+66.74	PI Sta 3+53.46
$\Delta = 48^{\circ}00'00.00''$ (RT)	$\Delta = 6^{\circ}00'00.00''$	$\Delta = 48^{\circ}00'00.00''$ (LT)
$D = 6^{\circ}00'00.00''$	$L = 207.100'$	$D = 15^{\circ}58'53.7''$
$L = 300.00'$	$L = 133.34'$	$L = 240.00'$
$T = 151.25'$	$ST = 56.74'$	$T = 127.50'$
$R = 9542.3'$		$R = 286.45'$
SE=07		SE=03
		RI/OFF=75'



ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

PROJECT REFERENCE NO. U-4019	SHEET NO. UC-5
SCALE: 25 0 50	
72-19-2010	

UTILITY CONSTRUCTION

NASH COUNTY HOSPITAL
DB 845 PG 136
DB 845 PG 224
DB1068 PG 879

S E FUNERAL HOMES OF NC INC
DB2316 PG 669

MATCHLINE L-49+00.00 SEE SHEET UC-4

MATCHLINE L-63+00.00 SEE SHEET UC-6

MATCHLINE RP "D" 11+00.00 SEE SHEET UC-9

LINE RAMP 'E'

PI Sta 3+51.25	PI Sta 5+66.74	PI Sta 3+53.46
$\Delta = 48^{\circ}00'00.00''$ (RT)	$\Delta = 6^{\circ}00'00.00''$	$\Delta = 48^{\circ}00'00.00''$ (LT)
$D = 6^{\circ}00'00.00''$	$L = 207.100'$	$D = 15^{\circ}58'53.7''$
$L = 300.00'$	$L = 133.34'$	$L = 240.00'$
$T = 151.25'$	$ST = 56.74'$	$T = 127.50'$
$R = 9542.3'$		$R = 286.45'$
SE=07		SE=03
		RI/OFF=75'

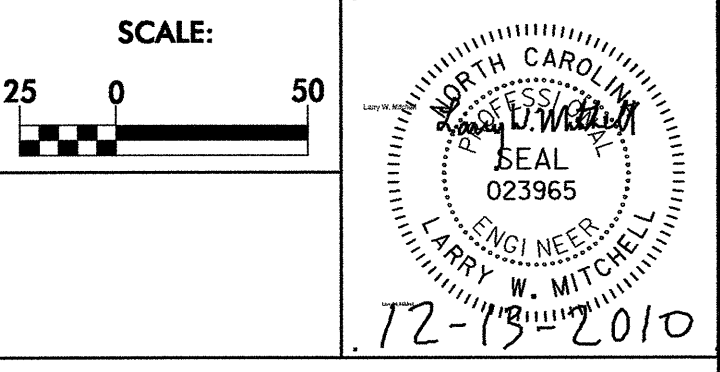
KMC, LLC
DB 1991 PG 481
DB 1991 PG 483

Prepared by:

AECOM

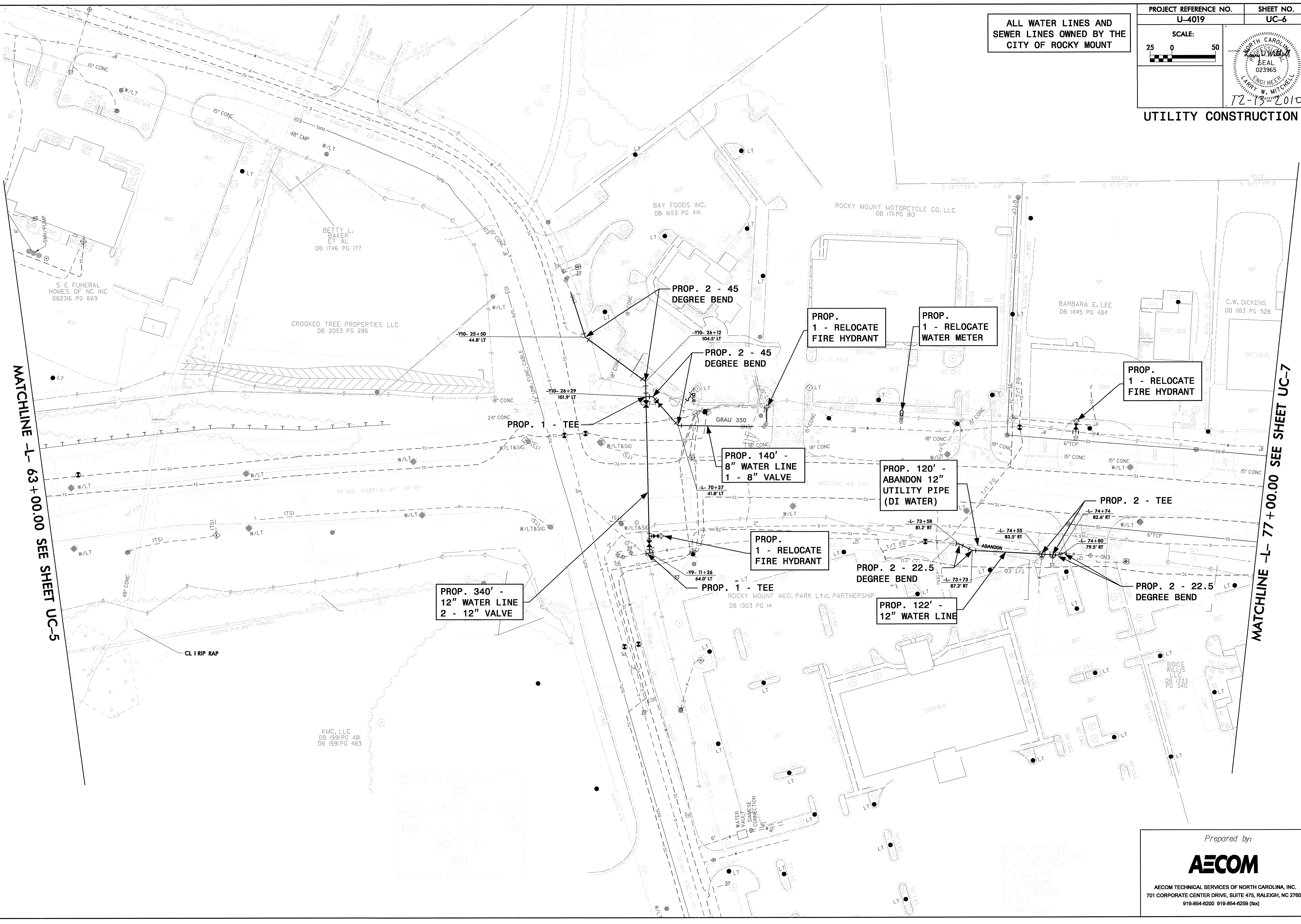
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

DATE: 12/13/2010
DRAWN: W009.A004 UC5.dgn



ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

UTILITY CONSTRUCTION



MATCHLINE -L- 63+00.00 SEE SHEET UC-5

MATCHLINE -L- 77+00.00 SEE SHEET UC-7

DATE: 10/13/2009
 DRAWN: 10/13/2009 UC6.dwg

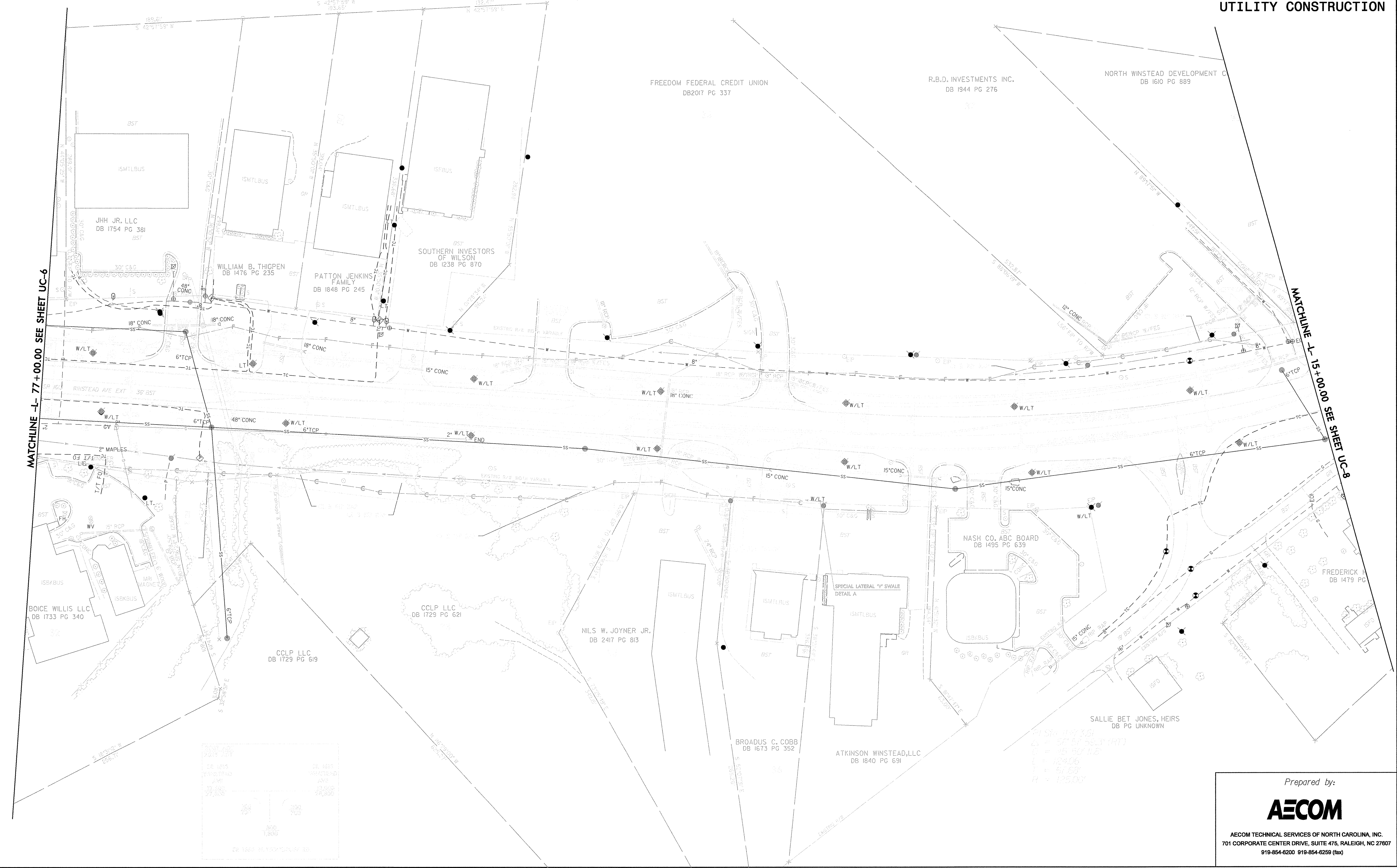
P = 671.8630
 Δ = 17.51380 (RT)
 L = 120.063'
 V = 53.424°
 T = 207.89'
 S = 3300.00'
 S.E.A. = 20'

Prepared by:
AECOM
 AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
 701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-6200 919-854-6259 (fax)

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

PROJECT REFERENCE NO. U-4019	SHEET NO. UC-7
SCALE: 25 0 50	

UTILITY CONSTRUCTION



MATCHLINE -L- 77+00.00 SEE SHEET UC-6

MATCHLINE -L- 15+00.00 SEE SHEET UC-8

1.5' SW 1/4
 2.5' SW 1/4
 3.5' SW 1/4
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 100.5' SW 1/4

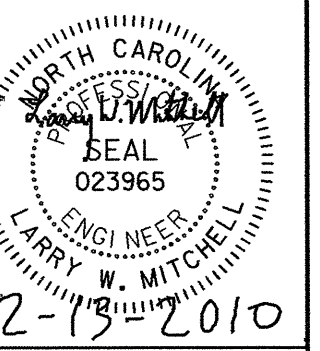
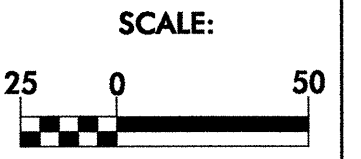
DATE: 12/12/2010
DRAWN: 44035.dak4.uct.409

Prepared by:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6258 (fax)

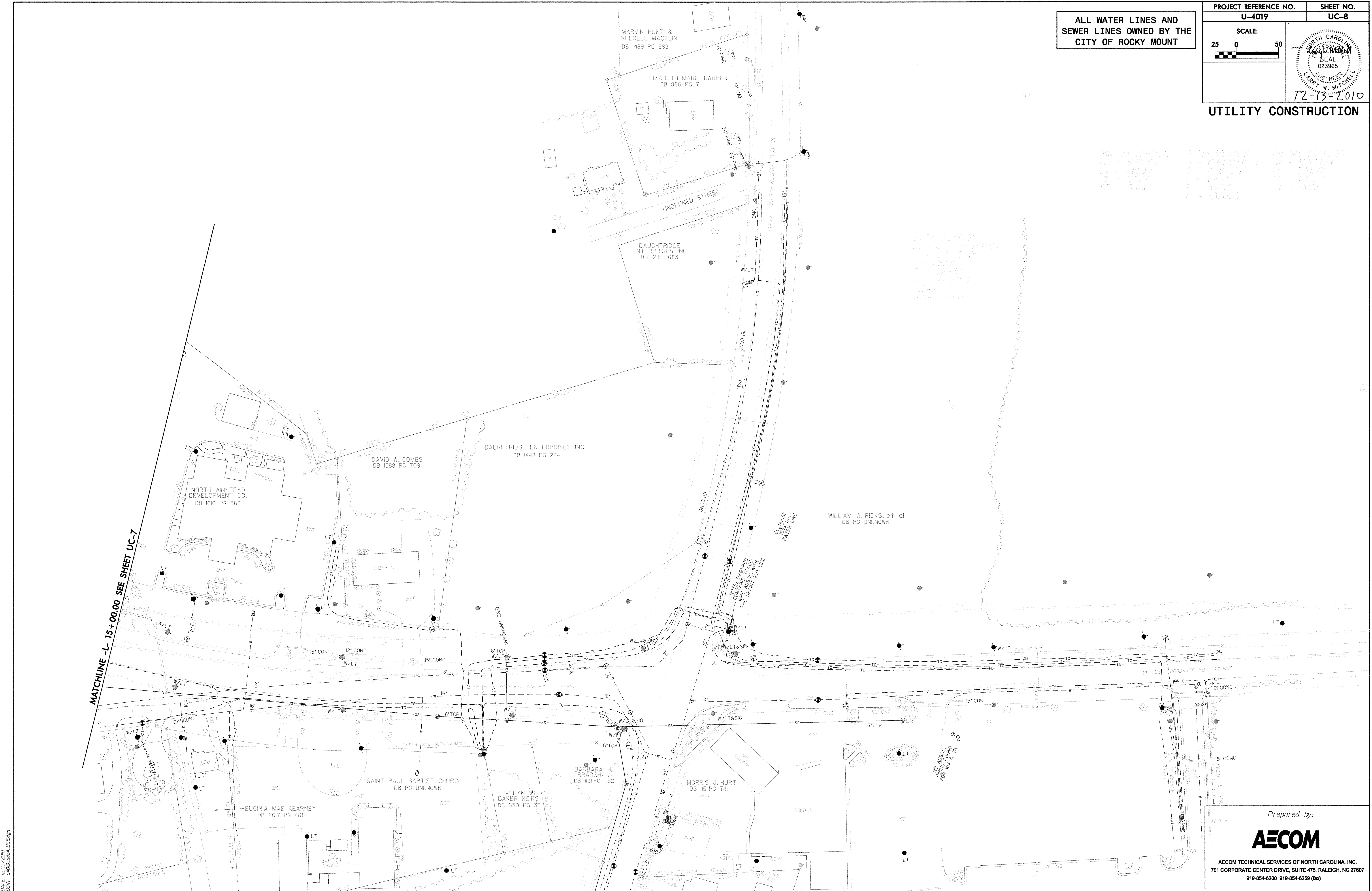
ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT



12-19-2010

UTILITY CONSTRUCTION

Pls Sta 30+32.71	Pls Sta 30+12.61	Pls Sta 30+12.50
Gr = 3.17 10.4	A = 7.44 034 10.7	Gr = 2.17 10.4
Ls = 2+00.0	B = 4.18 12.5	Ls = 2+00.0
LT = 45.00	L = 178.52	L = 45.00
ST = 40.00	T = 69.60	ST = 40.00
	A = 1330.00	



MATCHLINE -L- 15+00.00 SEE SHEET UC-7

DATE: 12/13/2010
 2:56 PM
 C:\Users\lucra\Documents\14072.dwg

Prepared by:

AECOM

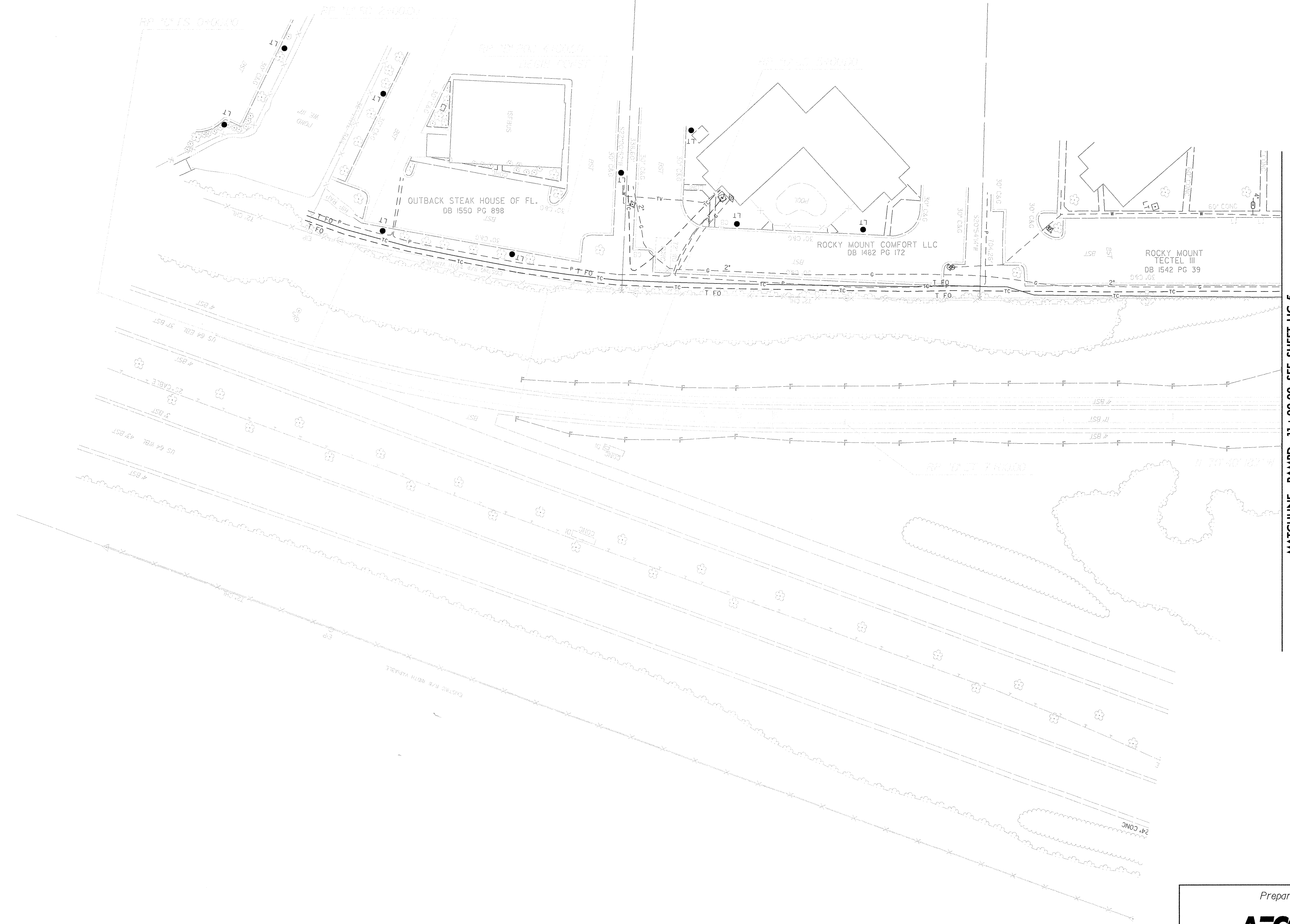
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
 701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-6200 919-854-6259 (fax)

File: S:\113337 21 STA 3150.55 P.1 STA 516.0
 PLS = 4'00" 000" Δ = 17'59" 58.9" (LT) Q1 = 1'31" 31.7"
 LS = 200.00' D = 4'00" 000" LC = 270.00'
 LT = 133.77' L = 305.00' LT = 14.14'
 ST = 66.70' T = 150.55' ST = 66.70'
 R = 1432.39'

ALL WATER LINES AND
 SEWER LINES OWNED BY THE
 CITY OF ROCKY MOUNT

PROJECT REFERENCE NO. U-4019	SHEET NO. UC-9
SCALE: 25 0 50	

UTILITY CONSTRUCTION



MATCHLINE -RAMPD- 11+00.00 SEE SHEET UC-5

DATE: 12/15/2010
DRAWN: U4019.dwg UC9.dwg

Prepared by:

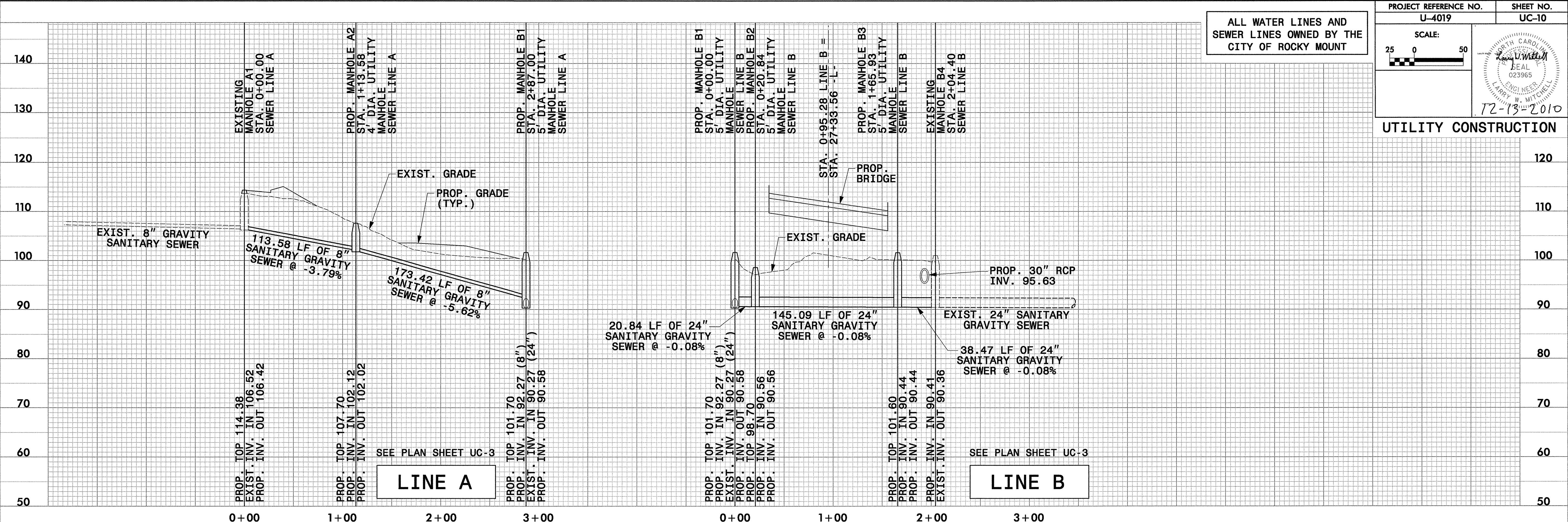
AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
 701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-6200 919-854-6269 (fax)

ALL WATER LINES AND SEWER LINES OWNED BY THE CITY OF ROCKY MOUNT

PROJECT REFERENCE NO. U-4019	SHEET NO. UC-10
SCALE: 25 0 50	

UTILITY CONSTRUCTION



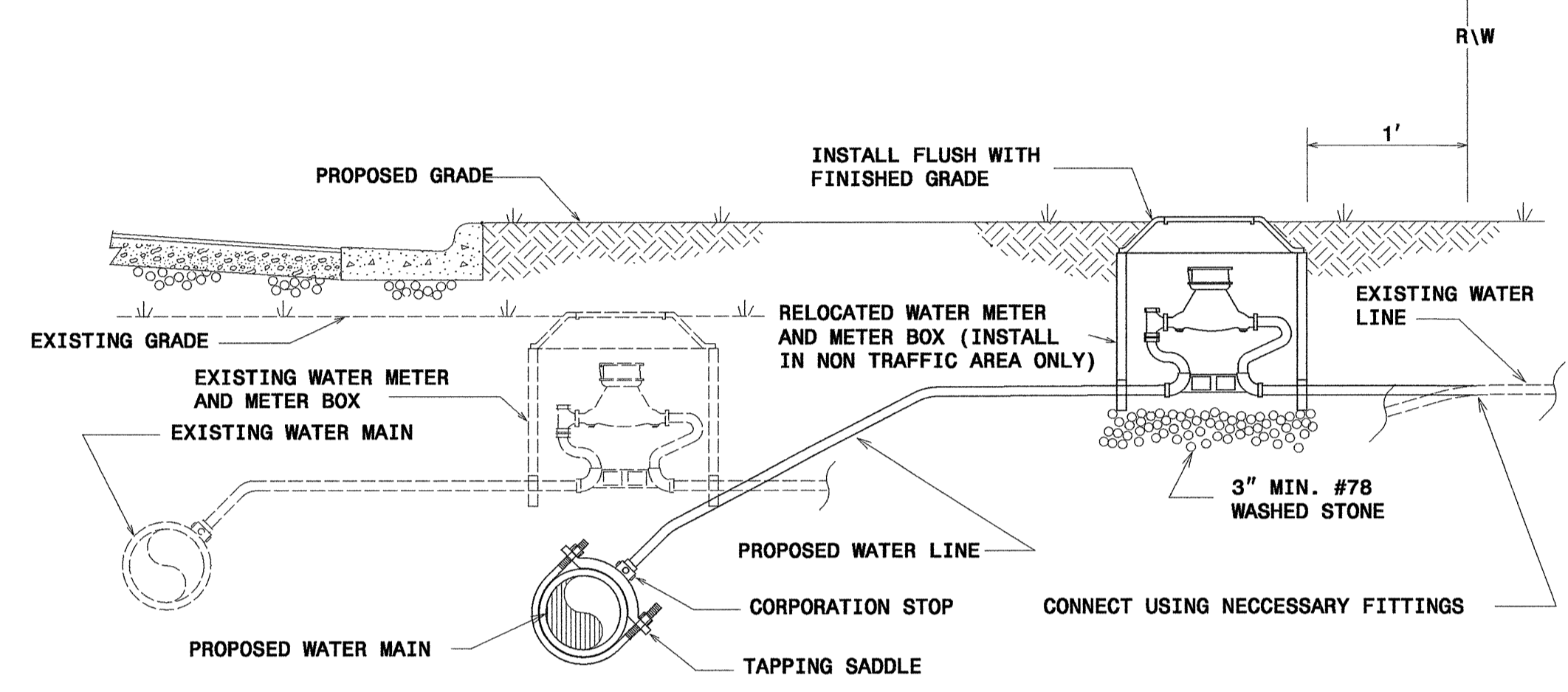
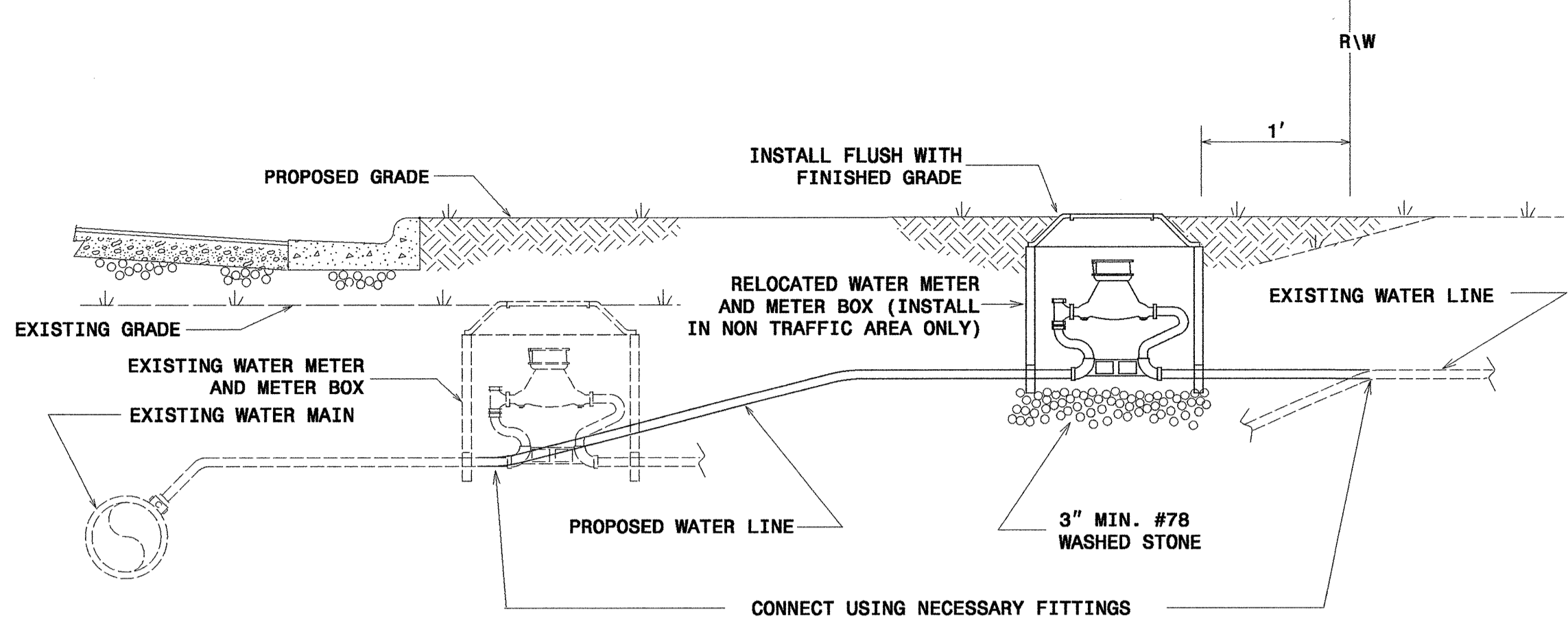
DATE: 12/13/2009
DWG: U-4019 UC-10.dwg

Prepared by:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6250 (fax)

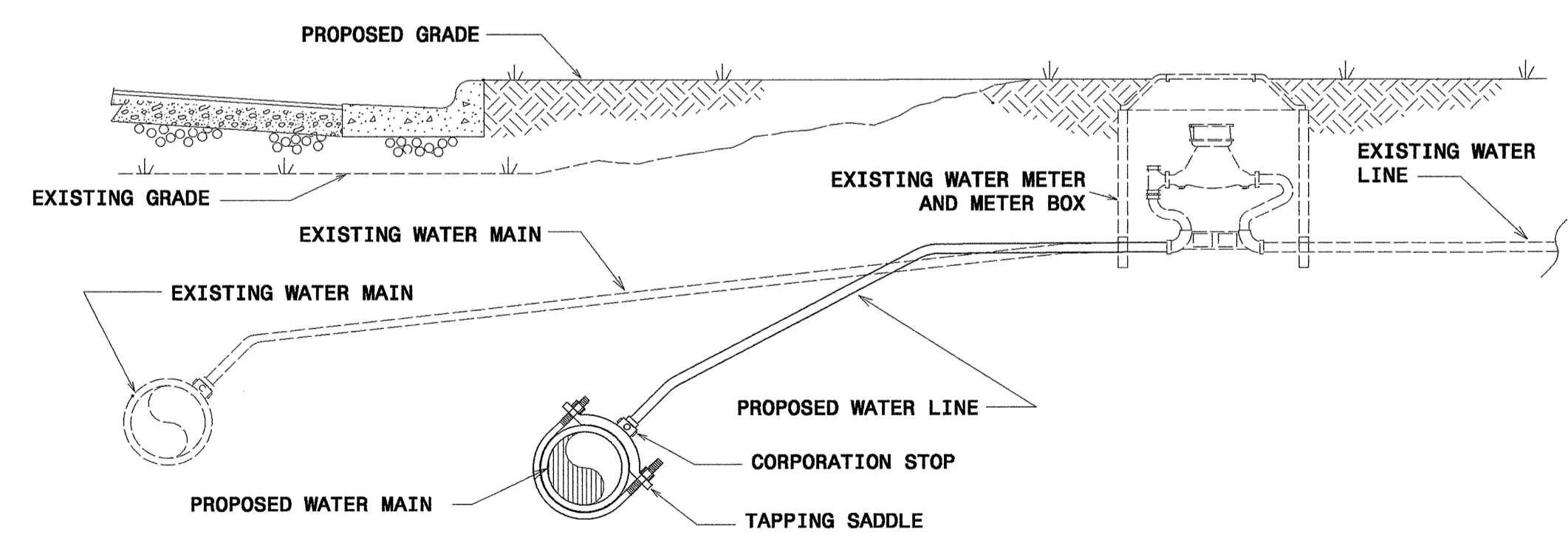
UTILITY CONSTRUCTION



NOTES:

1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 3' COVER BELOW FINISHED GRADE.
4. THE OWNER RESERVES THE RIGHT TO ADD OR DELETE WATER SERVICE TAPS AND TO CHANGE LOCATIONS FROM THOSE SHOWN.

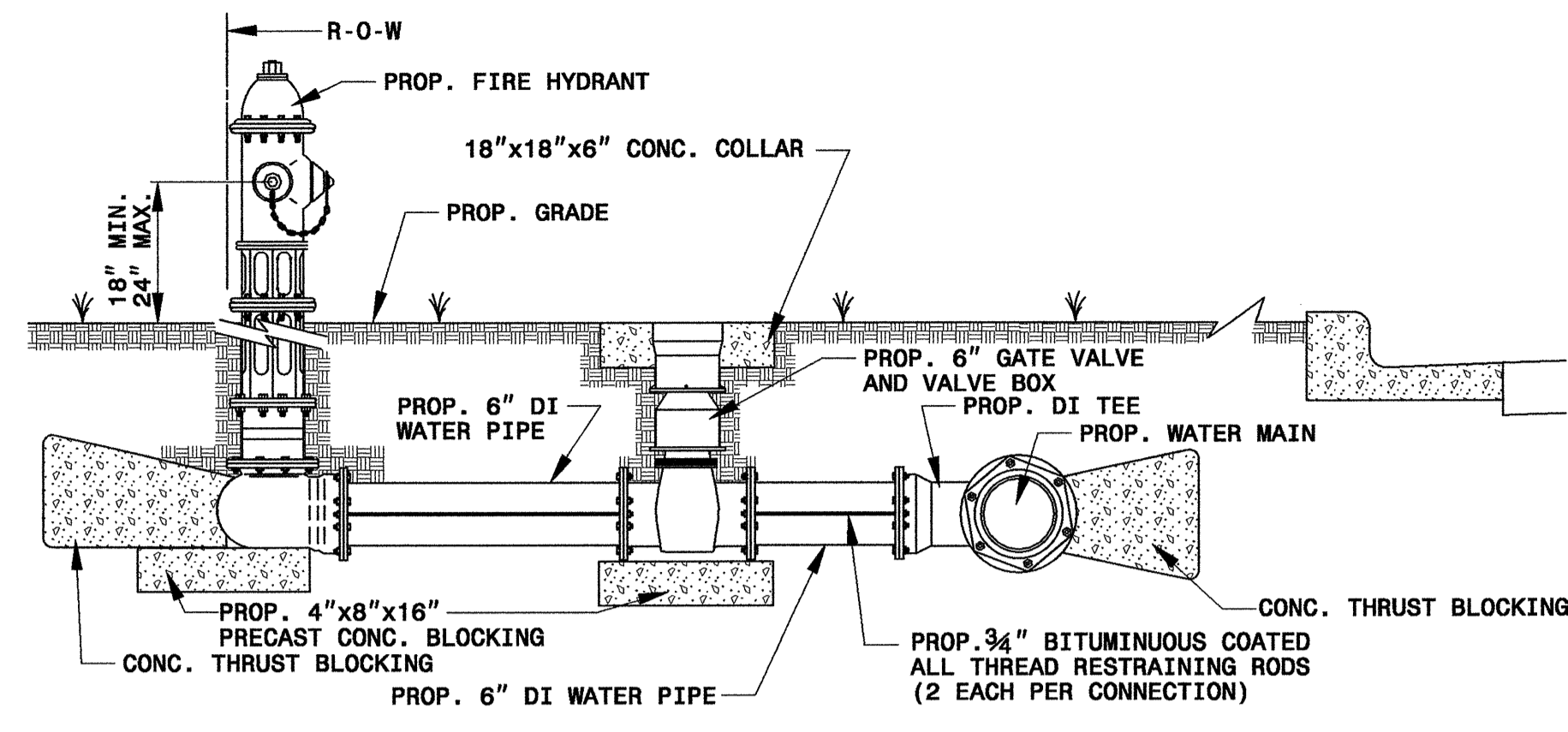
WATER METER RELOCATION DETAILS



NOTES:

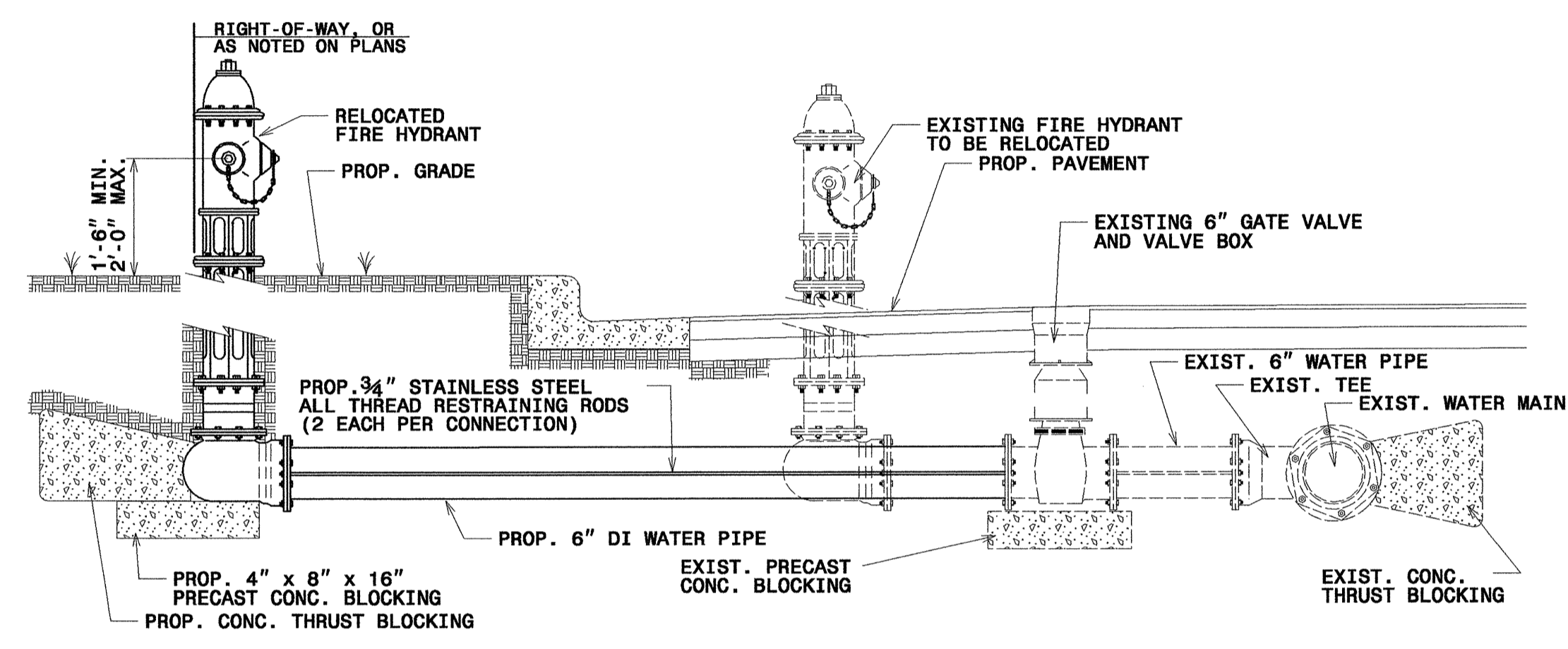
1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 3' COVER BELOW FINISHED GRADE.

RECONNECT EXISTING WATER METER DETAIL



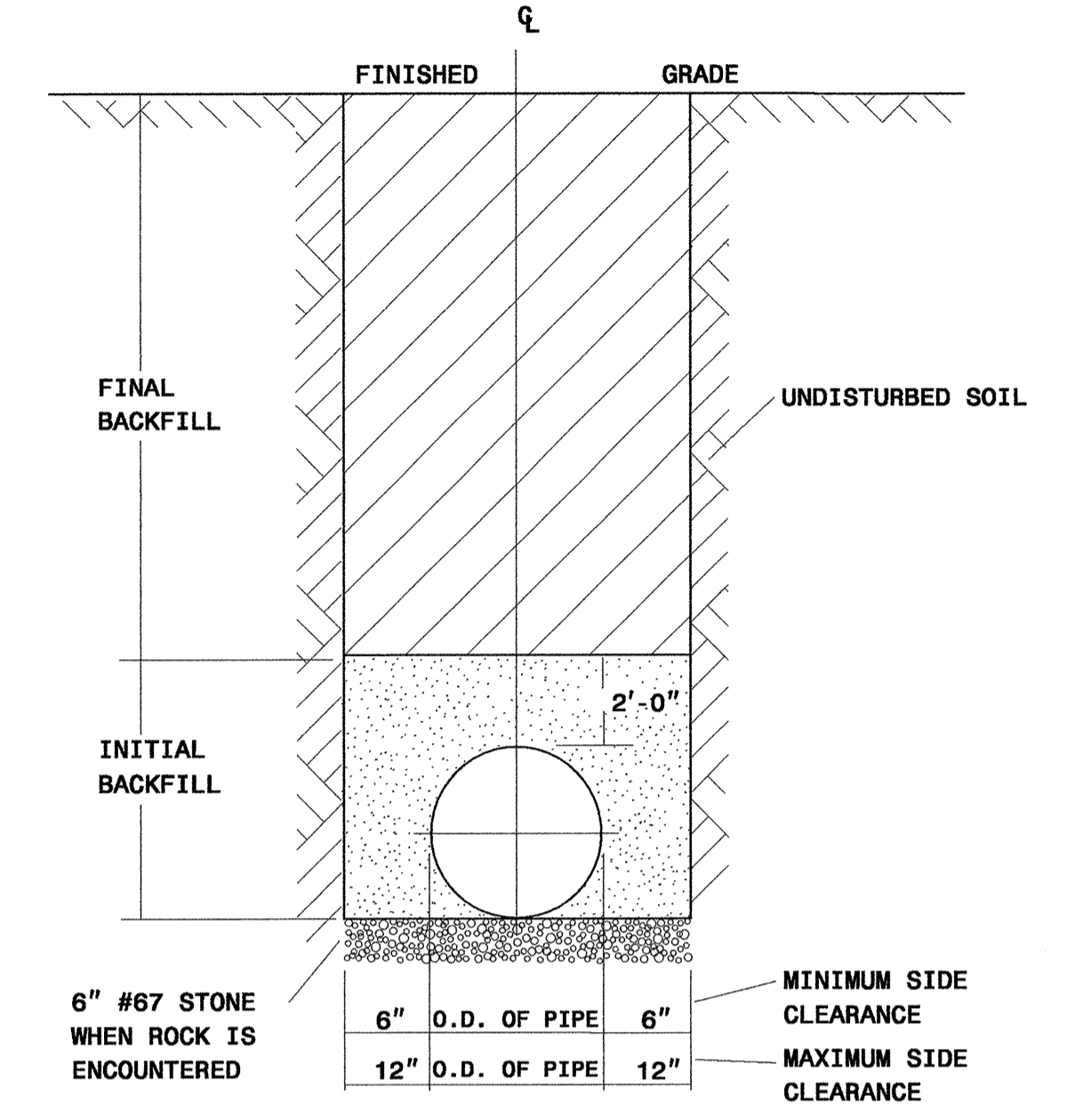
FIRE HYDRANT INSTALLATION DETAIL (UNPAVED AREAS)

NTS

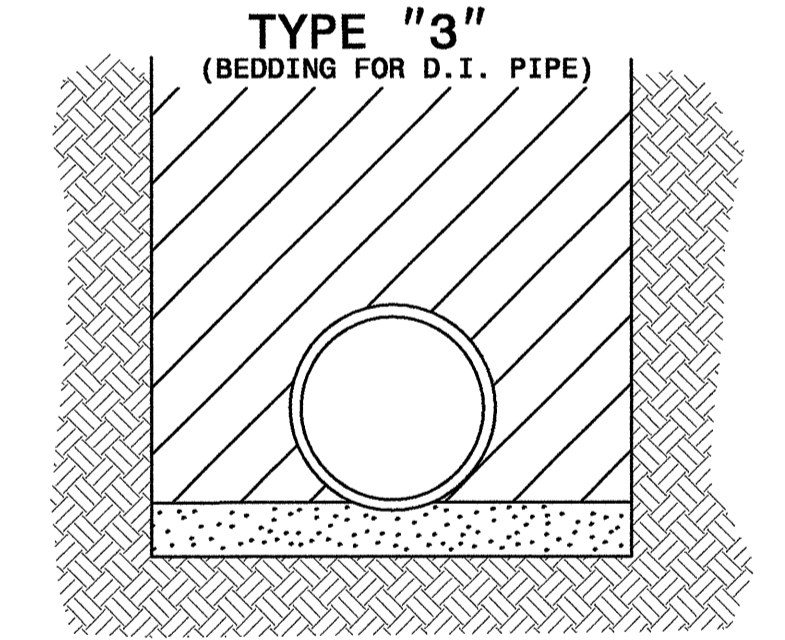
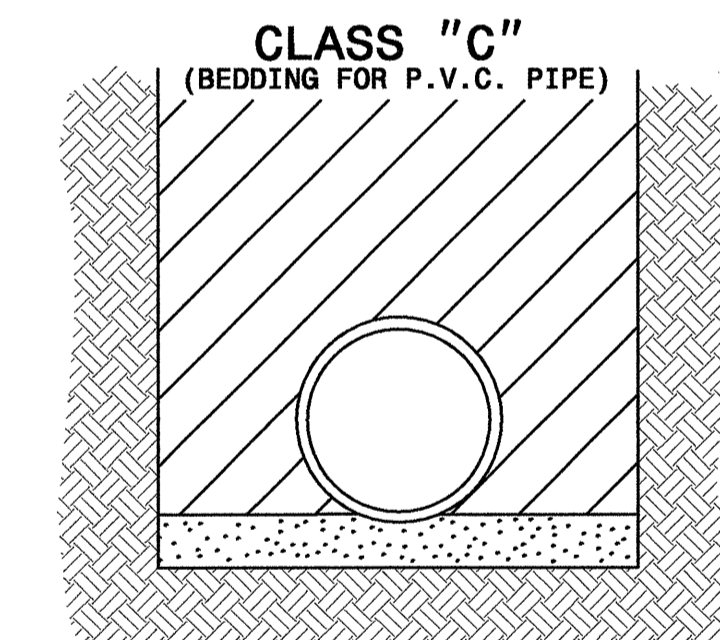


FIRE HYDRANT RELOCATION DETAIL

NTS



TRENCH & BACKFILL DETAIL



PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL IF APPROVED BY THE ENGINEER. 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.

NOMINAL PIPE SIZE (inches)	MAXIMUM TRENCH WIDTH AT TOP OF PIPE		TRENCH WIDTH (inches)
	TRENCH WIDTH (inches)	NOMINAL PIPE SIZE (inches)	
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

Prepared by:

AECOM

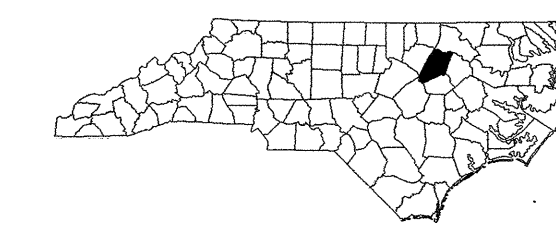
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

TIP PROJECT: U-4019

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
U-4019	UO-1

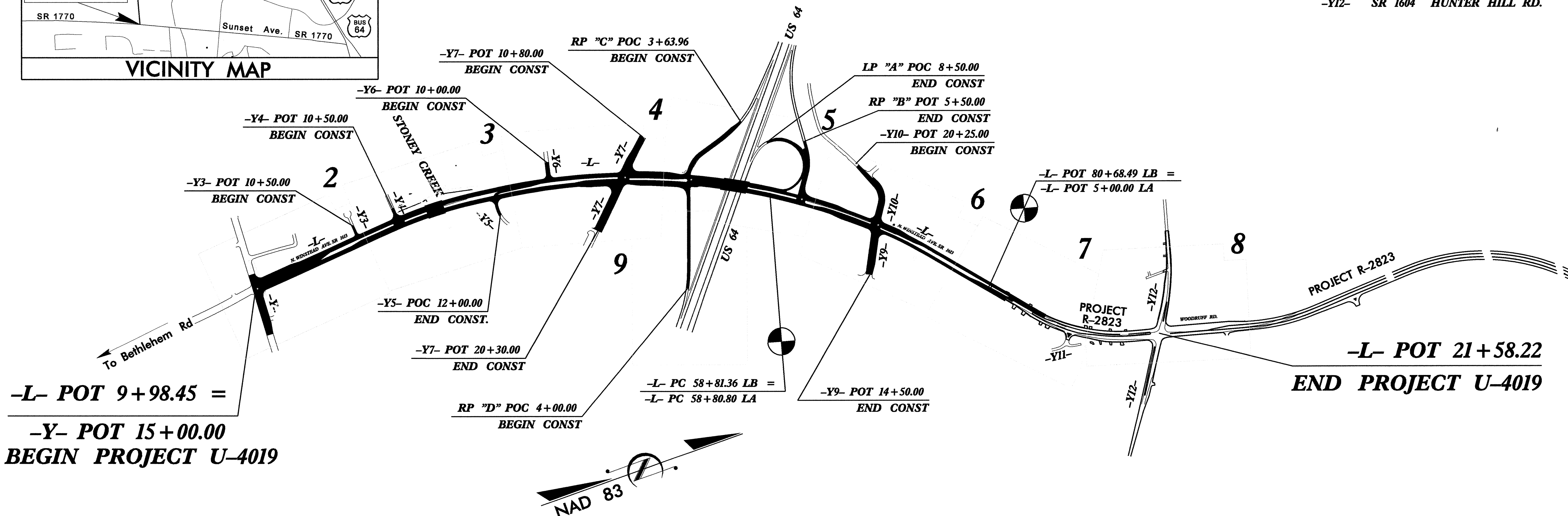
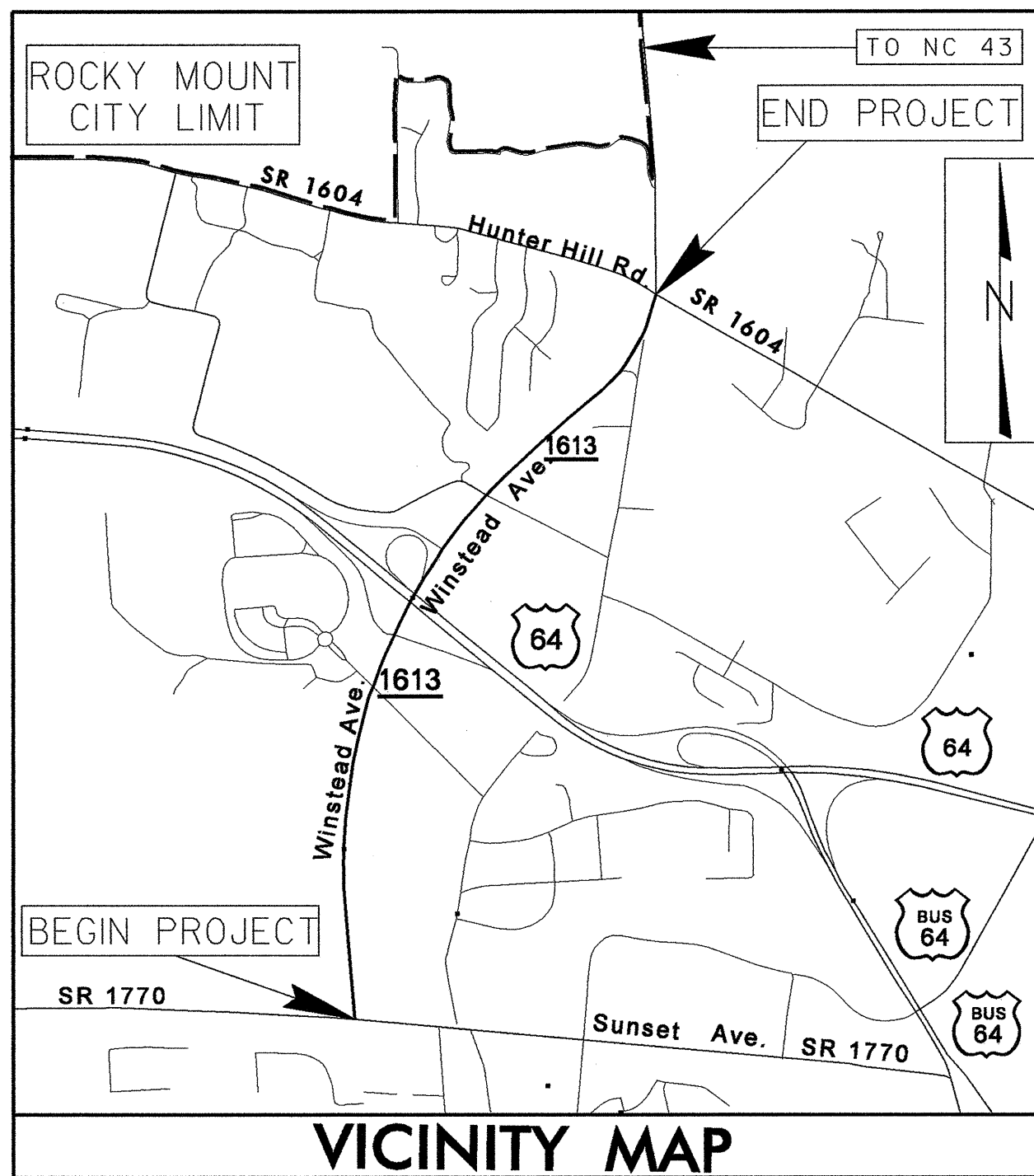


UTILITIES BY OTHERS PLANS NASH COUNTY

**LOCATION: SR-1613 (N. WINSTEAD AVE.) FROM SR-1770 (SUNSET AVE.)
TO SR-1604 (HUNTER HILL RD.)**

TYPE OF WORK: UTILITIES RELOCATION

- Y- SR 1770 SUNSET AVE.
- Y3- WOODRIDGE CT.
- Y4- ALEXANDER DR.
- Y5- PROFESSIONAL DR.
- Y6- EXECUTIVE DR.
- Y7- CURTIS ELLIS DR.
- Y9- SR 1614 ENGLISH RD.
- Y10- SR 1614 ENGLISH RD.
- Y11- SHEARIN ANDREW RD
- Y12- SR 1604 HUNTER HILL RD.

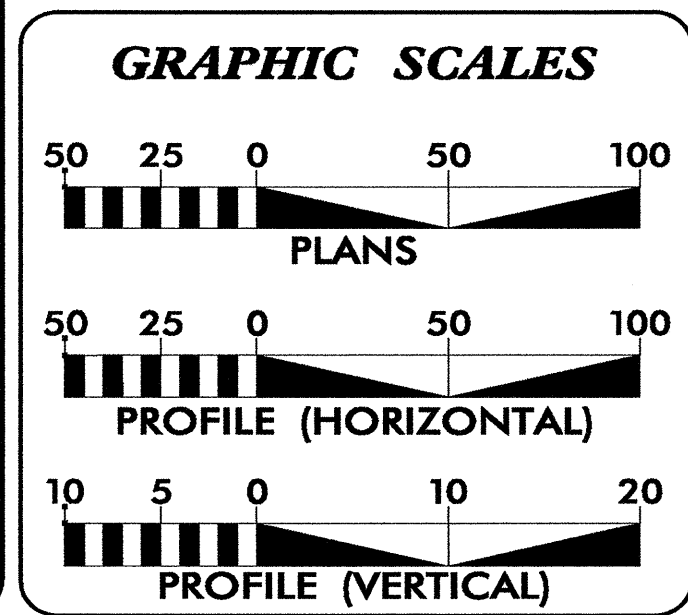


-L- POT 9+98.45 =
-Y- POT 15+00.00
BEGIN PROJECT U-4019

-L- POT 21+58.22
END PROJECT U-4019

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDRIES OF ROCKY MOUNT
CLEANING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III

CONTRACT:



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-9	UTILITIES BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT**
- (1) POWER DISTRIBUTION - CITY OF ROCKY MOUNT
 - (2) GAS DISTRIBUTION - CITY OF ROCKY MOUNT
 - (3) TELLECOMMUNICATIONS - CENTURYLINK
 - (4) CABLE TELEVISION - SUDDEN LINK

PREPARED BY:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)

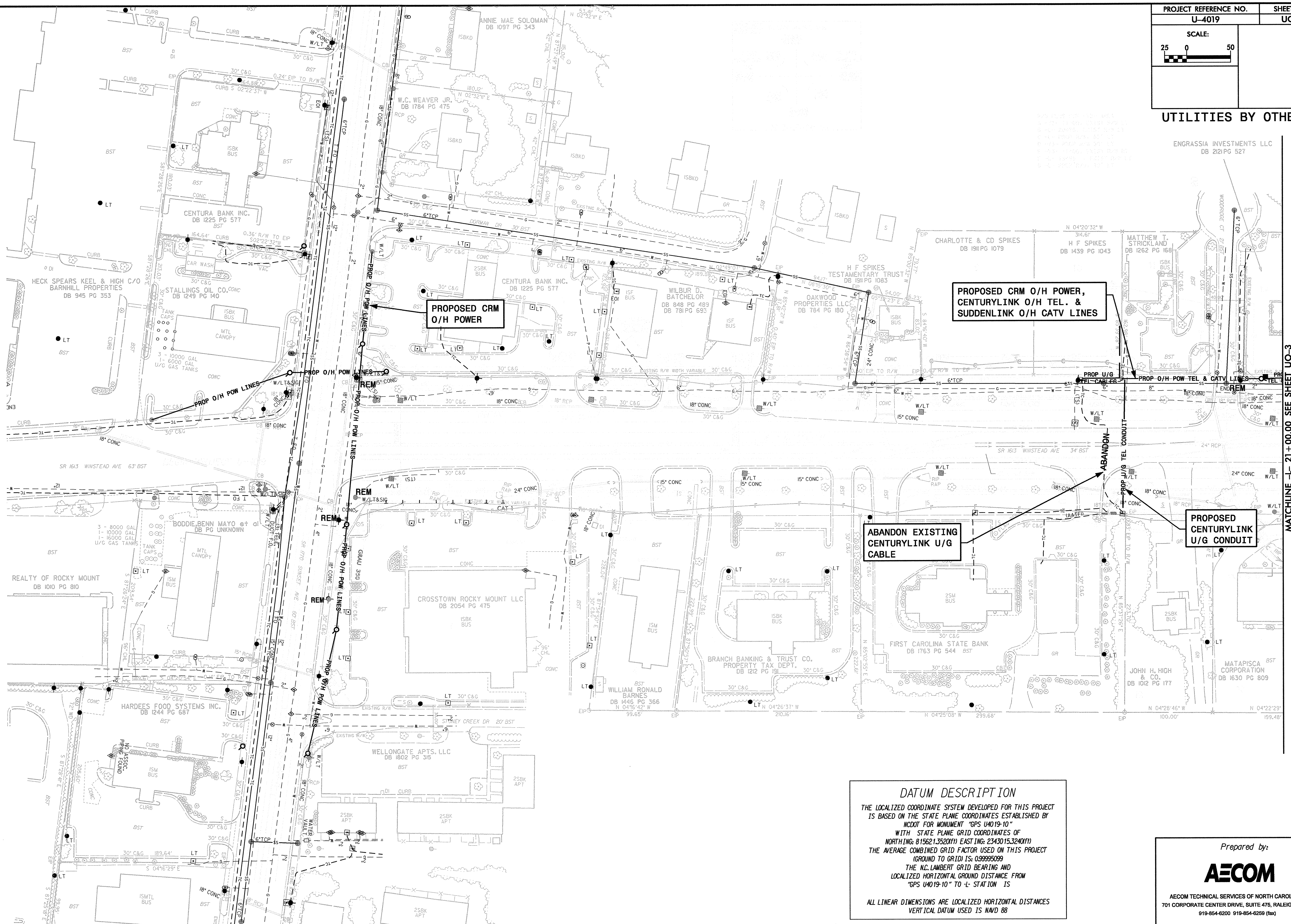
PREPARED FOR:

**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 256-4128
FAX (919) 256-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
R. B. Wilkins, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
AECOM Tech. Services UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS



**PROPOSED CRM O/H POWER,
CENTURYLINK O/H TEL. &
SUDDENLINK O/H CATV LINES**

**PROPOSED CRM
O/H POWER**

**ABANDON EXISTING
CENTURYLINK U/G
CABLE**

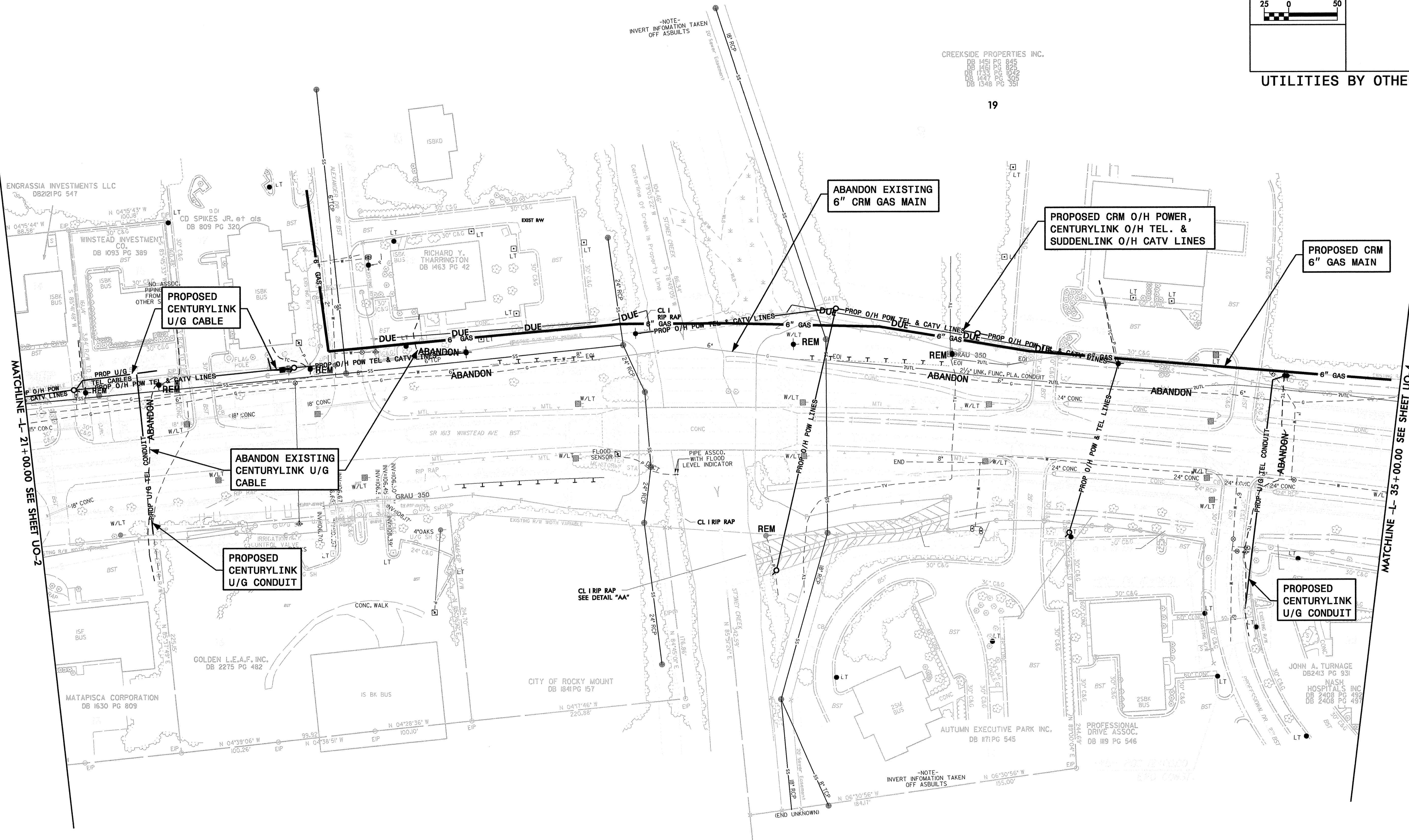
**PROPOSED
CENTURYLINK
U/G CONDUIT**

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS U4019-10" WITH STATE PLANE GRID COORDINATES OF NORTHING: 8156213520(1) EASTING: 23430153240(1) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995099 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS U4019-10" TO 'L' STATION IS ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

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MATCHLINE L-21+00.00 SEE SHEET UO-3

UTILITIES BY OTHERS



MATCHLINE -L- 21+00.00 SEE SHEET UO-2

MATCHLINE -L- 35+00.00 SEE SHEET UO-4

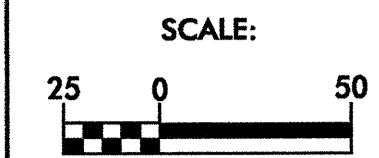
U/G SH U/G SPRINKLER HEADS

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DATE: 3/16/2011
DWG: U4019_UO-3.dwg



UTILITIES BY OTHERS

CREEKSIDE PROPERTIES INC.
DB 1483 PG 845
DB 1733 PG 623
DB 1447 PG 305
DB 1548 PG 351

FCM ASSOCIATES
ROCKY MOUNT INC.
D.B.A. HAMPTON INN
DB 1447 PG 303

NASH HOSPITALS INC.
DB 1618 PG 598

EXISTING CENTURYLINK U/G
CABLES TO BE EXPOSED AND
LOWERED AS REQUIRED TO
AVOID CONFLICT WITH PROPOSED
DRAINAGE FACILITIES

PROPOSED
CENTURYLINK
U/G (FO) CABLE

EXISTING CENTURYLINK U/G
CABLES TO BE EXPOSED AND
LOWERED AS REQUIRED TO
AVOID CONFLICT WITH PROPOSED
DRAINAGE FACILITIES

MATCHLINE -L- 35+00.00 SEE SHEET UO-3

MATCHLINE -L- 49+00.00 SEE SHEET UO-5

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DATE: 3/16/2011
DGN: u4019_u04.dwg

UTILITIES BY OTHERS

HASH COUNTY HOSPITAL
DB 845 PG 136
DB 845 PG 224
DB1068 PG 879

ROCKY MOUNT TECTEL III
DB 1542 PG 35

S E FUNERAL HOMES OF NC INC
DB2316 PG 669

PROPOSED CENTURYLINK U/G (FO) CABLE 36" DEPTH, 5' MIN. UNDER ROADWAY

MATCHLINE -L- 49+00.00 SEE SHEET UO-4

MATCHLINE RP "D" 11+00.00 SEE SHEET UO-9

MATCHLINE -L- 63+00.00 SEE SHEET UO-6

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KMC, LLC
DB 1991 PG 481
DB 1991 PG 483

DATE: 3/16/2011
DRAWN: W4019_0404_UO5.dgn

UTILITIES BY OTHERS

PI Sta 19+38.41
 $\Delta = 4^{\circ}00'30.1" (RT)$
 $D = 1^{\circ}08'45.3"$
 $L = 349.80'$
 $T = 174.97'$
 $R = 5,000.00'$
 $SE=04.5$

PI Sta 23+94.53
 $\Delta = 59^{\circ}55'00.0" (RT)$
 $D = 29^{\circ}00'00.9"$
 $L = 206.61'$
 $T = 113.88'$
 $R = 197.57'$
 $SE=04.5$

PROPOSED CENTURYLINK U/G (FO) CABLE 36" DEPTH, 5' MIN. UNDER ROADWAY

EXISTING CENTURYLINK U/G CABLES TO BE EXPOSED AND LOWERED AS REQUIRED TO AVOID CONFLICT WITH PROPOSED DRAINAGE FACILITIES

PROPOSED CENTURYLINK U/G CABLE

ABANDON EXISTING CENTURYLINK U/G CABLE

PROPOSED CRM O/H SPAN GUY AND SUDDENLINK U/G CATV

PROPOSED CRM O/H POWER AND SUDDENLINK CATV

EXISTING CENTURYLINK U/G CABLES TO BE EXPOSED AND LOWERED AS REQUIRED TO AVOID CONFLICT WITH PROPOSED DRAINAGE FACILITIES

MATCHLINE -L- 63+00.00 SEE SHEET UO-5

MATCHLINE -L- 77+00.00 SEE SHEET UO-7

2002 ADT	SR 1614 ENGLISH RD.		
2025 ADT		3,400	7,600
SR 1613 WINSTEAD AVE		1,200	2,400
		200	800
		20,200	18,000
		40,200	32,200
		2,000	400
		3,900	1,500
		5,400	12,000
	SR 1614 ENGLISH RD.		

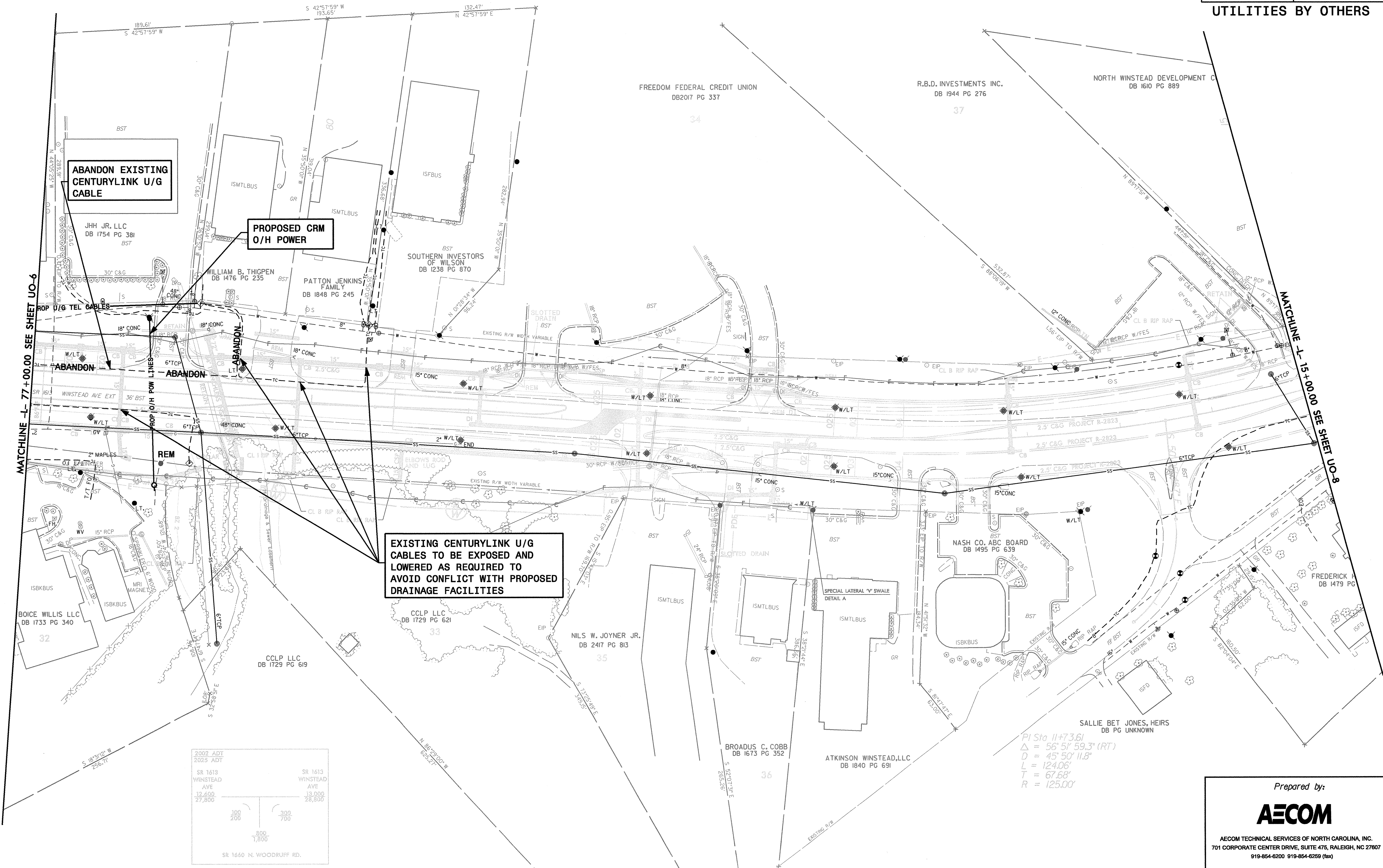
PI Sta 71+86.38
 $\Delta = 7^{\circ}51'32.0" (RT)$
 $D = 1^{\circ}28'08.8"$
 $L = 534.94'$
 $T = 267.89'$
 $R = 3,900.00'$
 $SE=03$
 $RUNOFF=210'$

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UTILITIES BY OTHERS



2002 ADT 2025 ADT	SR 1613 WINSTEAD AVE 12,600 27,800	SR 1613 WINSTEAD AVE 13,000 28,800
	100 200	300 700
	800 7,800	
	SR 1660 N. WOODRUFF RD.	

$PI Sta 11+73.61$
 $\Delta = 56^\circ 51' 59.3" (RT)$
 $D = 45' 50" 11.8"$
 $L = 124.06'$
 $T = 67.68'$
 $R = 125.00'$

DATE: 3/16/2011
DRAWN: W4019_006A_UO7.dgn

PROJECT REFERENCE NO. U-4019	SHEET NO. UO-8
SCALE: 25 0 50	

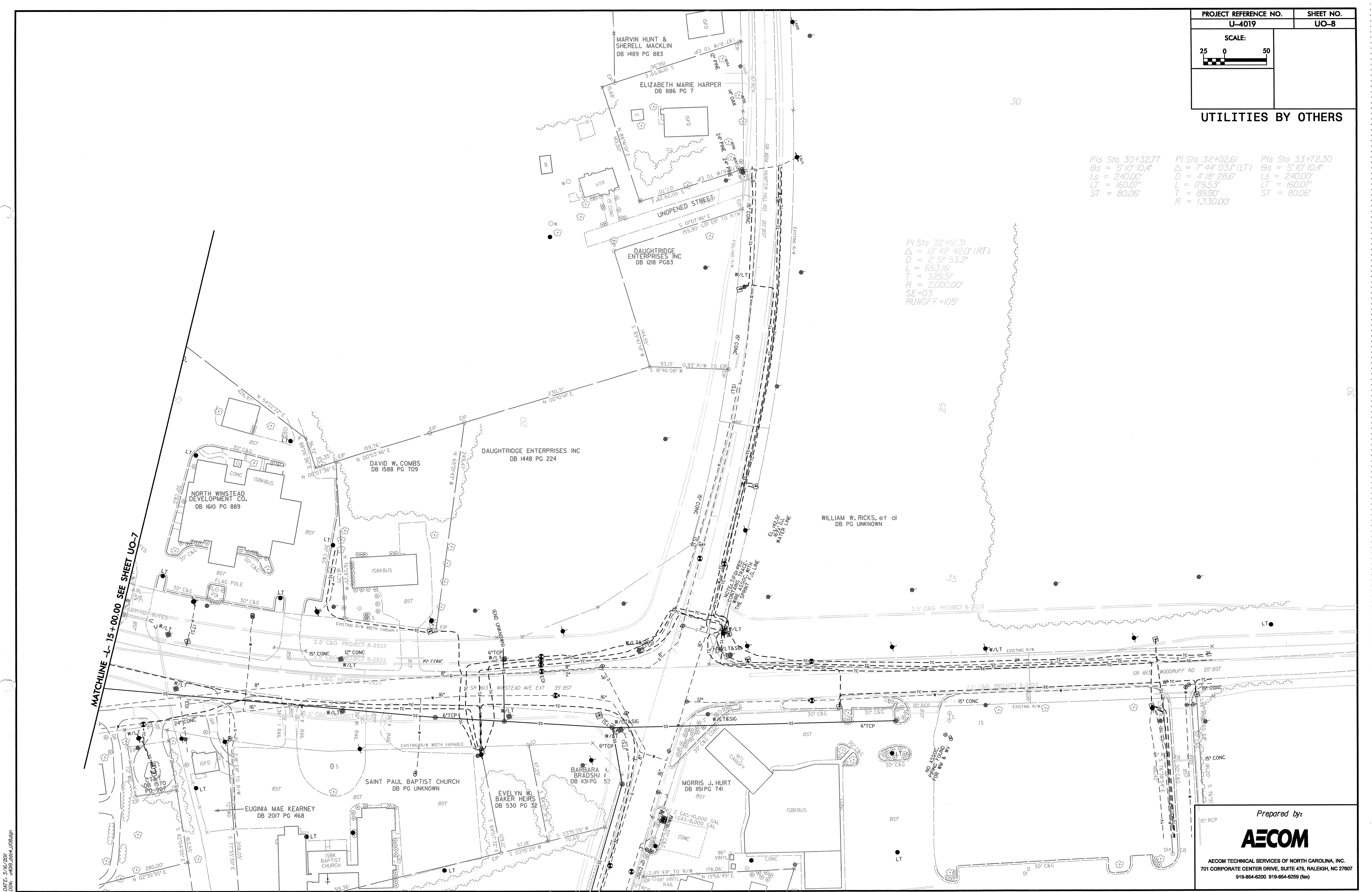
UTILITIES BY OTHERS

PIs Sta 30+32.77
 $\theta_s = 5^{\circ}10'10.4''$
 $L_s = 240.00'$
 $LT = 160.07'$
 $ST = 80.06'$

PI Sta 32+02.61
 $\Delta = 7^{\circ}44'03.1''$ (LT)
 $D = 4^{\circ}18'28.6''$
 $L = 179.53'$
 $T = 89.90'$
 $R = 1,330.00'$

PIs Sta 33+72.30
 $\theta_s = 5^{\circ}10'10.4''$
 $L_s = 240.00'$
 $LT = 160.07'$
 $ST = 80.06'$

PI Sta 32+61.31
 $\Delta = 18^{\circ}42'42.0''$ (RT)
 $D = 2^{\circ}51'53.2''$
 $L = 653.16'$
 $T = 329.51'$
 $R = 2,000.00'$
 $SE=03$
 $RUNOFF=105'$



MATCHLINE 1-15+00.00 SEE SHEET UO-7

Prepared by:



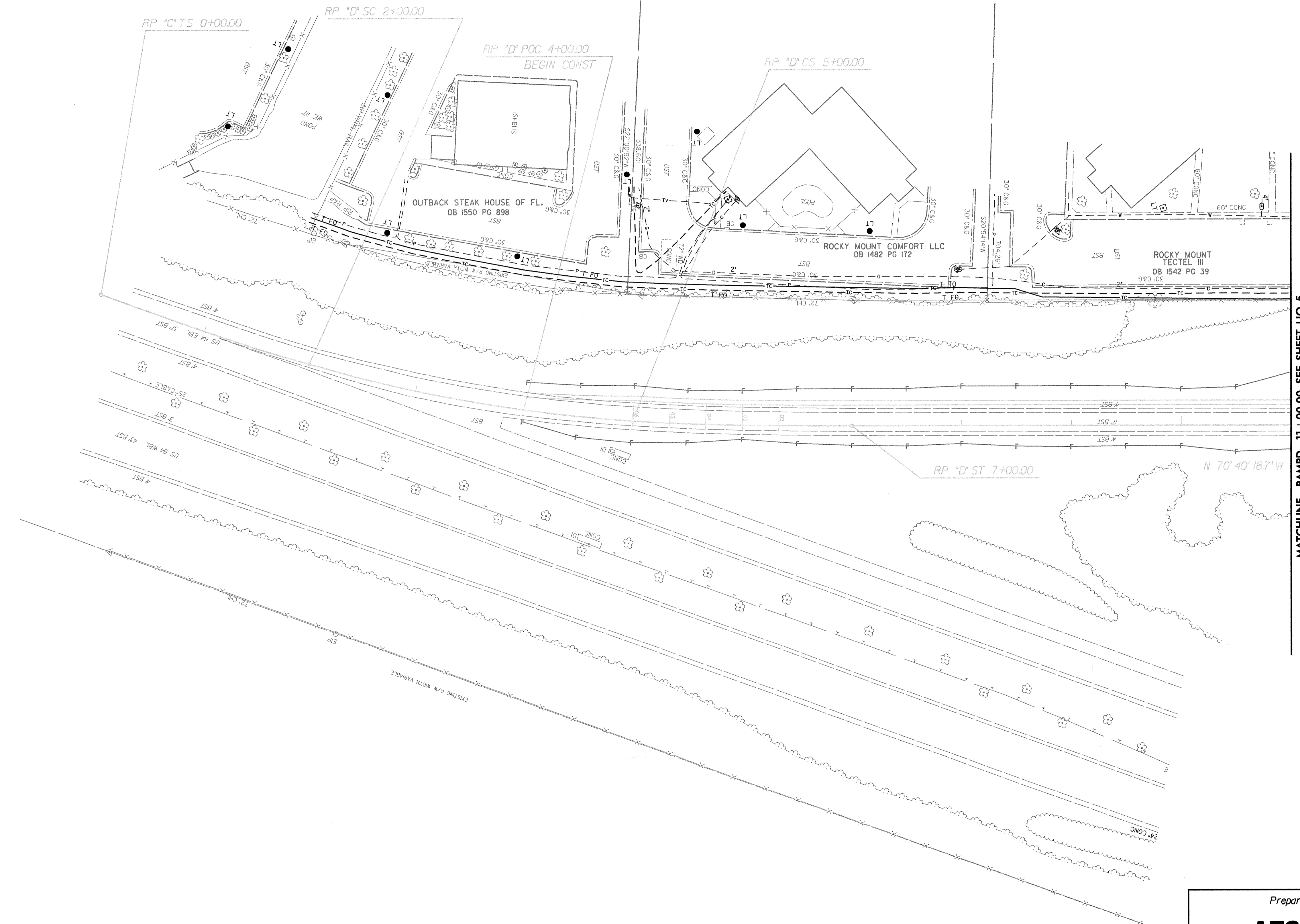
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
 701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-6200 919-854-6255 (fax)

DATE: 3/16/2011
 DSN: 14095-2604-UO8.dgn

Pls Sta 1+33.37 Pls Sta 3+50.55 Pls Sta 5+66.70
 $\theta_s = 4'00''00.0''$ $\Delta = 1'59'59.9''(LT)$ $\theta_s = 4'00''00.0''$
 $L_s = 200.00'$ $D = 4'00''00.0''$ $L_s = 200.00'$
 $LT = 133.37'$ $L = 300.00'$ $LT = 133.37'$
 $ST = 66.70'$ $T = 150.55'$ $ST = 66.70'$
 $R = 1,432.39'$

PROJECT REFERENCE NO. U-4019	SHEET NO. UO-9
SCALE: 25 0 50	

UTILITIES BY OTHERS



MATCHLINE - RAMPD- 11 + 00.00 SEE SHEET UO-5

Prepared by:



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DATE: 3/16/2011
 CDR: u4019a04_u09.dgn