

09/08/99

06-SEP-2011 14:39 P:\Utilities\UC_PLANS\UC-PLANS\UC-2309ab_UC1_TSH.rdy --dgn

TIP PROJECT: R-2309AB

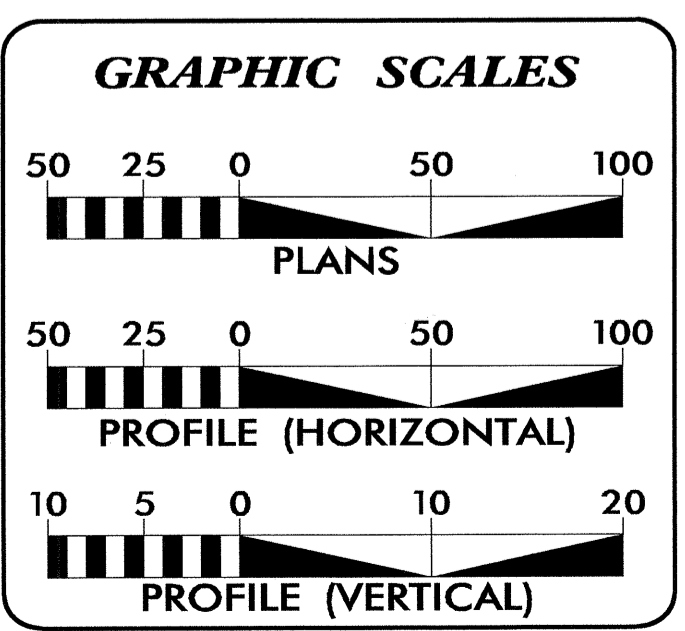
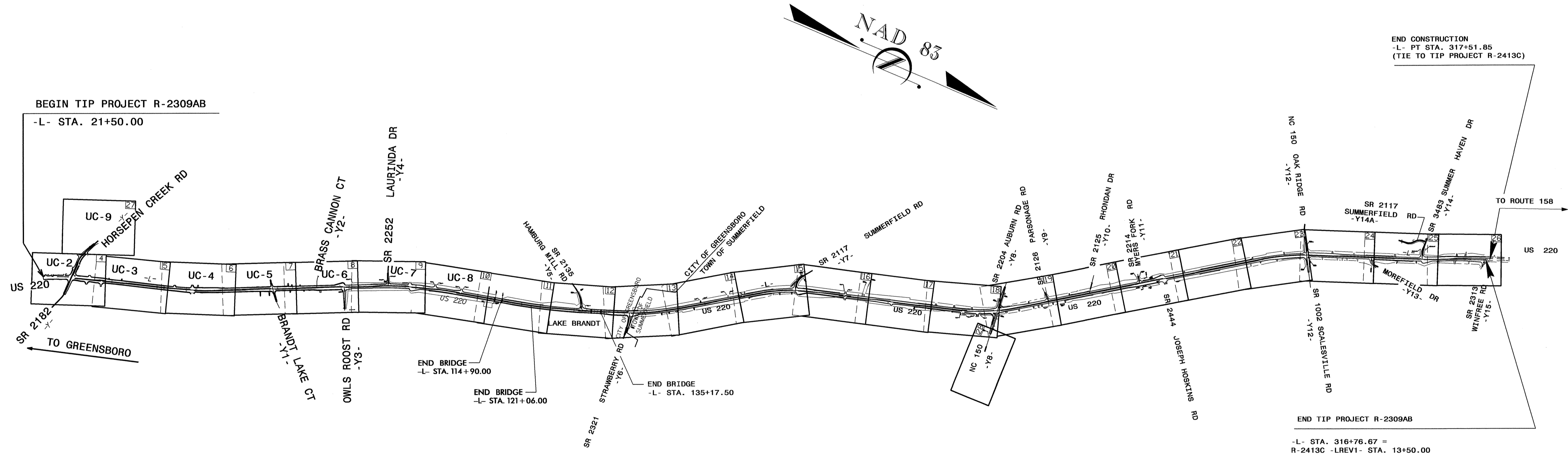
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
R-2309AB	UC-1

UTILITY CONSTRUCTION PLANS
GUILFORD COUNTY

LOCATION: US 220 FROM SR 2182 (HORSEPEN CREEK RD.) TO 0.2 MILES NORTH OF SR 2313 (WINFREE RD.) IN GREENSBORO

TYPE OF WORK: UTILITIES

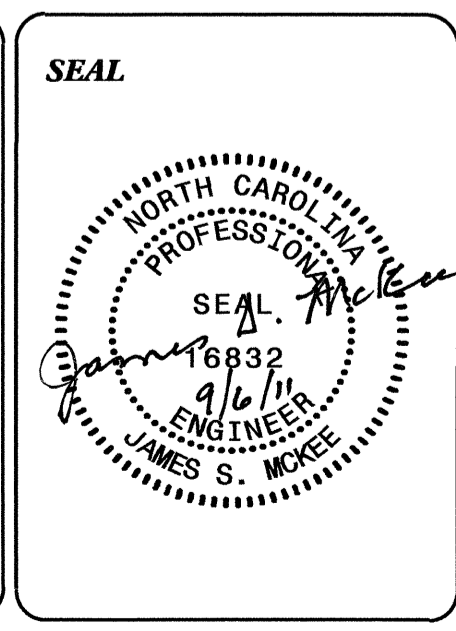


INDEX OF SHEETS

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

WATER AND SEWER OWNERS ON PROJECT

(1) WATER, CITY OF GREENSBORO
(2) SANITARY SEWER, CITY OF GREENSBORO



PREPARED IN THE OFFICE OF:
**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
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Jamshid Hafshejani UTILITIES PROJECT DESIGNER

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-2
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

NOTE:
 The Owner of the existing water line is the City of Greensboro.
 The Contractor will be required to limit interruption of service to water to a one time maximum 8 hour period for each.
 Service can only be interrupted between the hours of 10 PM and 6 AM or as directed by the Engineer.

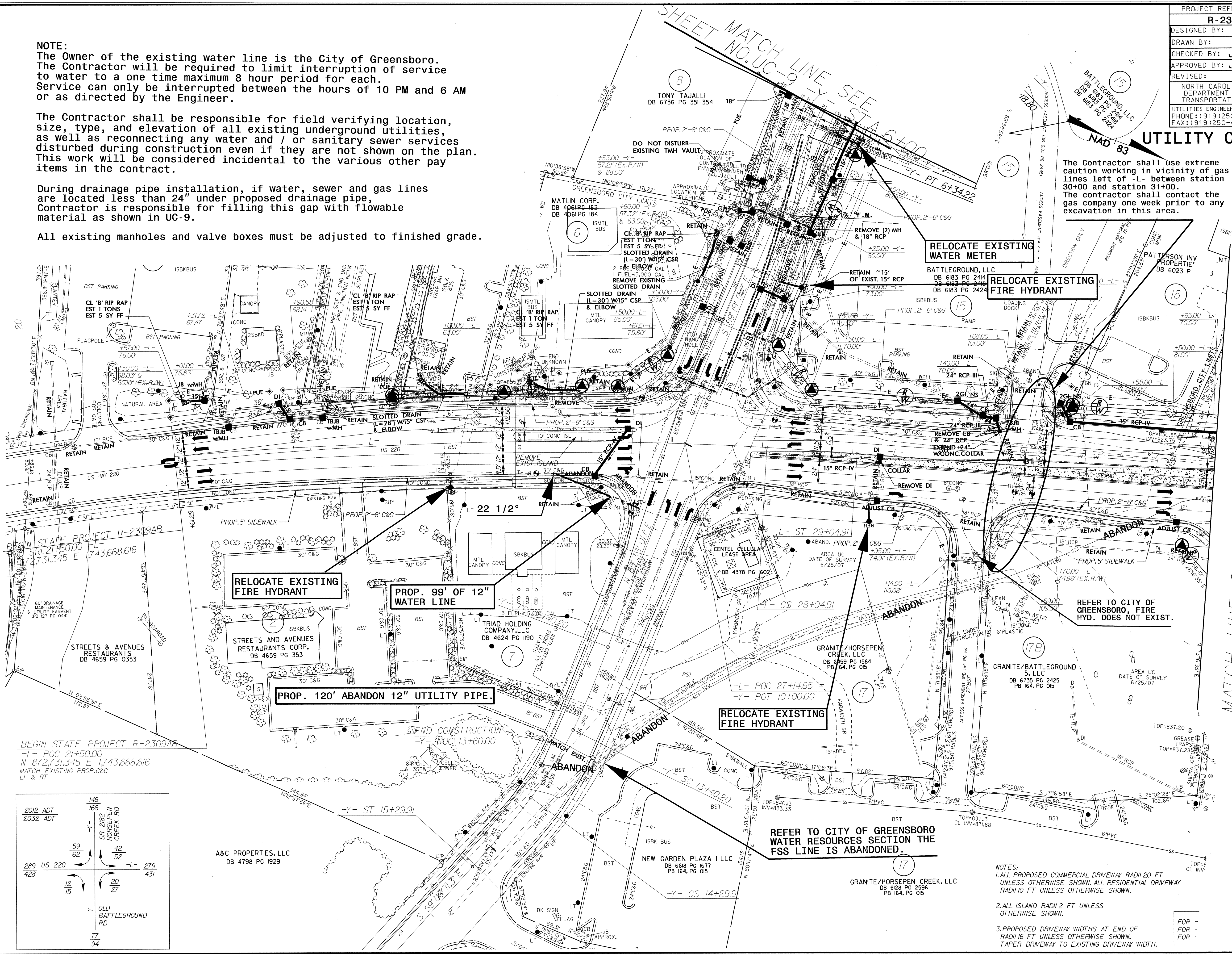
The Contractor shall be responsible for field verifying location, size, type, and elevation of all existing underground utilities, as well as reconnecting any water and / or sanitary sewer services disturbed during construction even if they are not shown on the plan. This work will be considered incidental to the various other pay items in the contract.

During drainage pipe installation, if water, sewer and gas lines are located less than 24" under proposed drainage pipe, Contractor is responsible for filling this gap with flowable material as shown in UC-9.

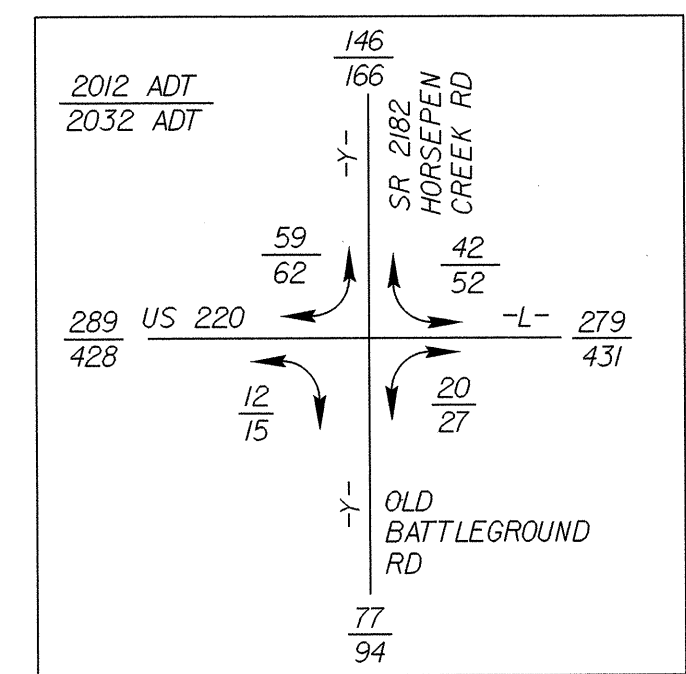
All existing manholes and valve boxes must be adjusted to finished grade.

The Contractor shall use extreme caution working in vicinity of gas lines left of -L- between station 30+00 and station 31+00.
 The contractor shall contact the gas company one week prior to any excavation in this area.

UTILITY CONSTRUCTION



BEGIN STATE PROJECT R-2309AB
 -L- POC 21+50.00
 N 872,731.345 E 1,743,668.616
 MATCH EXISTING PROP.C&G
 LT & RT



A&C PROPERTIES, LLC
 DB 4798 PG 1929

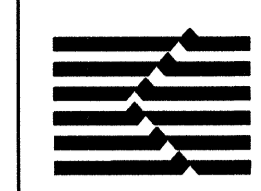
REFER TO CITY OF GREENSBORO
 WATER RESOURCES SECTION THE
 FSS LINE IS ABANDONED.

- NOTES:
1. ALL PROPOSED COMMERCIAL DRIVEWAY RADI 20 FT UNLESS OTHERWISE SHOWN. ALL RESIDENTIAL DRIVEWAY RADI 10 FT UNLESS OTHERWISE SHOWN.
 2. ALL ISLAND RADI 2 FT UNLESS OTHERWISE SHOWN.
 3. PROPOSED DRIVEWAY WIDTHS AT END OF RADI 16 FT UNLESS OTHERWISE SHOWN. TAPER DRIVEWAY TO EXISTING DRIVEWAY WIDTH.

MATCH LINE SEE SHEET NO. UC-3 -L- STA. 33+00

02-SEP-2011 13:07 PLANS\R-2309AB\UC-2.rdw\psk14.dgn

5/14/99
02-SEP-2011 13:09
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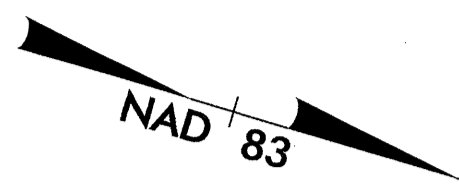


KCI Associates
of North Carolina, P.A.
RALEIGH, N.C. 27609-5210
ENGINEERS • PLANNERS • ECOLOGISTS

SUITE 220, LANDMARK CENTER II
4601 SIX FORKS RD.
RALEIGH, N.C. 27609-5210
(919) 783-9214

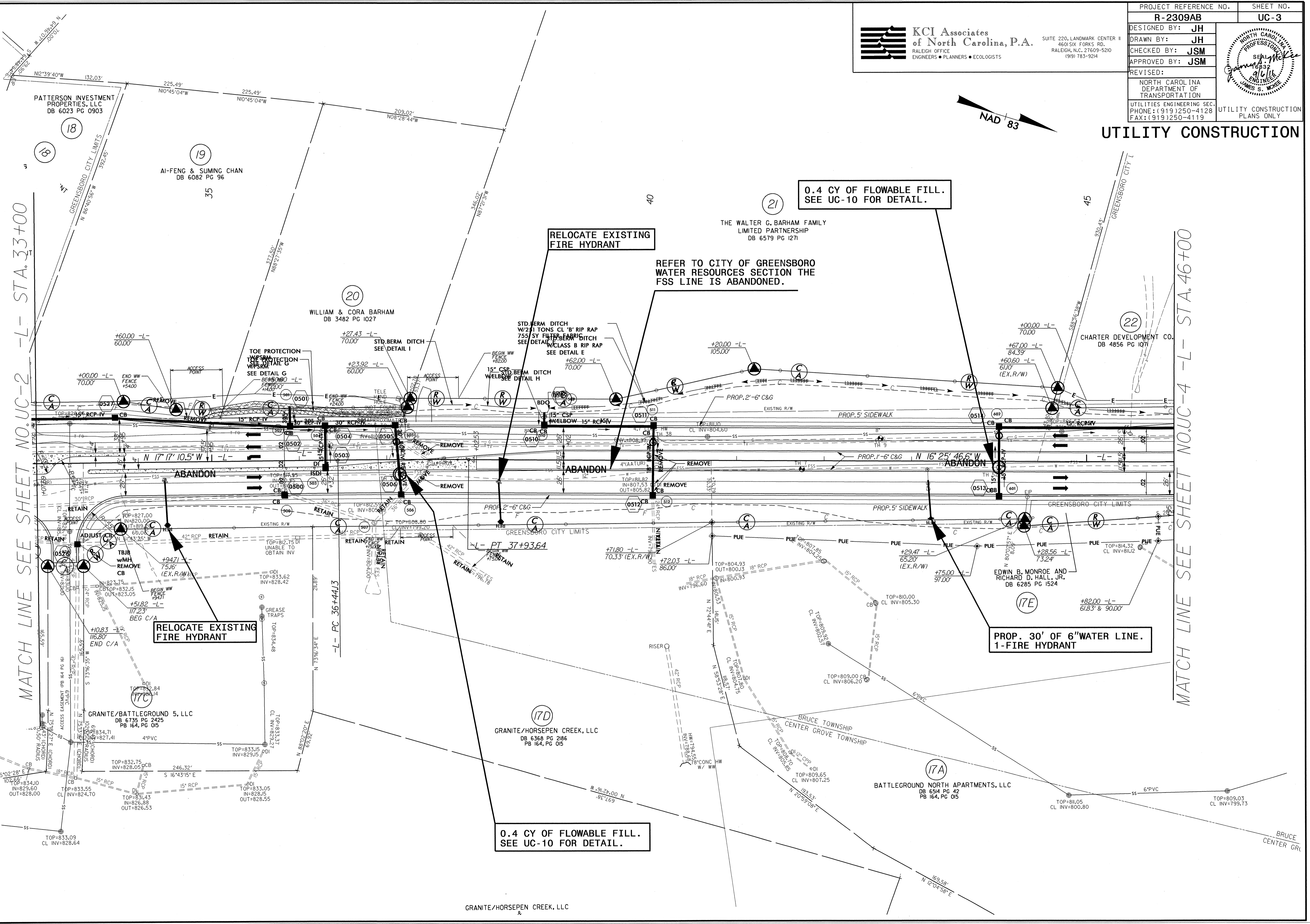
PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-3
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



MATCH LINE SEE SHEET NO. UC-2 -L- STA. 33+00

MATCH LINE SEE SHEET NO. UC-4 -L- STA. 46+00



0.4 CY OF FLOWABLE FILL.
SEE UC-10 FOR DETAIL.

0.4 CY OF FLOWABLE FILL.
SEE UC-10 FOR DETAIL.

PROP. 30' OF 6" WATER LINE.
1-FIRE HYDRANT

RELOCATE EXISTING
FIRE HYDRANT

REFER TO CITY OF GREENSBORO
WATER RESOURCES SECTION THE
FSS LINE IS ABANDONED.

RELOCATE EXISTING
FIRE HYDRANT

PATTERSON INVESTMENT
PROPERTIES, LLC
DB 6023 PG 0903

AI-FENG & SUMING CHAN
DB 6082 PG 96

WILLIAM & CORA BARHAM
DB 3482 PG 1027

THE WALTER G. BARHAM FAMILY
LIMITED PARTNERSHIP
DB 6579 PG 1271

CHARTER DEVELOPMENT CO.
DB 4856 PG 1071

EDWIN B. MONROE AND
RICHARD D. HALL, JR.
DB 6285 PG 1524

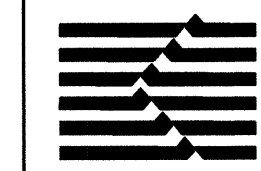
GRANITE/HORSEPEN CREEK, LLC
DB 6368 PG 2186
PB 164, PG 015

BATTLEGROUND NORTH APARTMENTS, LLC
DB 6514 PG 42
PB 164, PG 015

GRANITE/BATTLEGROUND 5, LLC
DB 6735 PG 2425
PB 164, PG 015

GRANITE/HORSEPEN CREEK, LLC

5/14/99



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RALEIGH OFFICE
ENGINEERS • PLANNERS • ECOLOGISTS

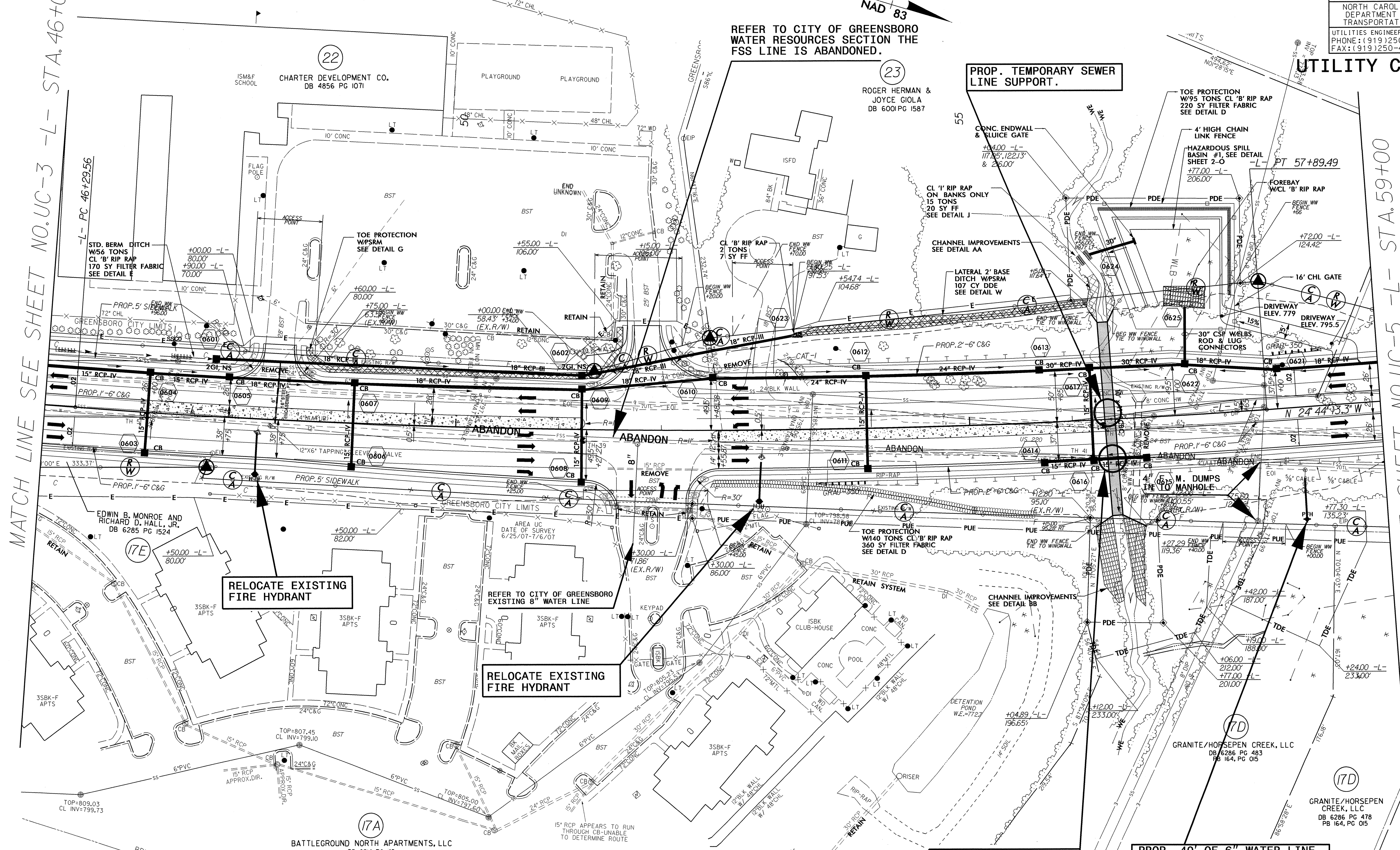
SUITE 220, LANDMARK CENTER II
4601 SIX FORKS RD.
RALEIGH, N.C. 27609-5210
(919) 783-9214

PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-4
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

MATCH LINE SEE SHEET NO. UC-3 -L- STA. 46+00

MATCH LINE SEE SHEET NO. UC-5 -L- STA. 59+00

REFER TO CITY OF GREENSBORO WATER RESOURCES SECTION THE FSS LINE IS ABANDONED.



RELOCATE EXISTING FIRE HYDRANT

RELOCATE EXISTING FIRE HYDRANT

PROP. TEMPORARY WATER LINE SUPPORT.

PROP. 40" OF 6" WATER LINE 1 - FIRE HYDRANT

-L- CURVE DATA

$PI Sta 52+10.54$
 $\Delta = 8' 18' 26.7" (LT)$
 $D = 0' 42' 58.3"$
 $L = 1,159.93'$
 $T = 580.98'$
 $R = 4,000.00'$
 $SE = NORMAL CROWN$
 $V = 50 MPH$

SEE SHEETS 29 & 30 FOR -L- PROFILE

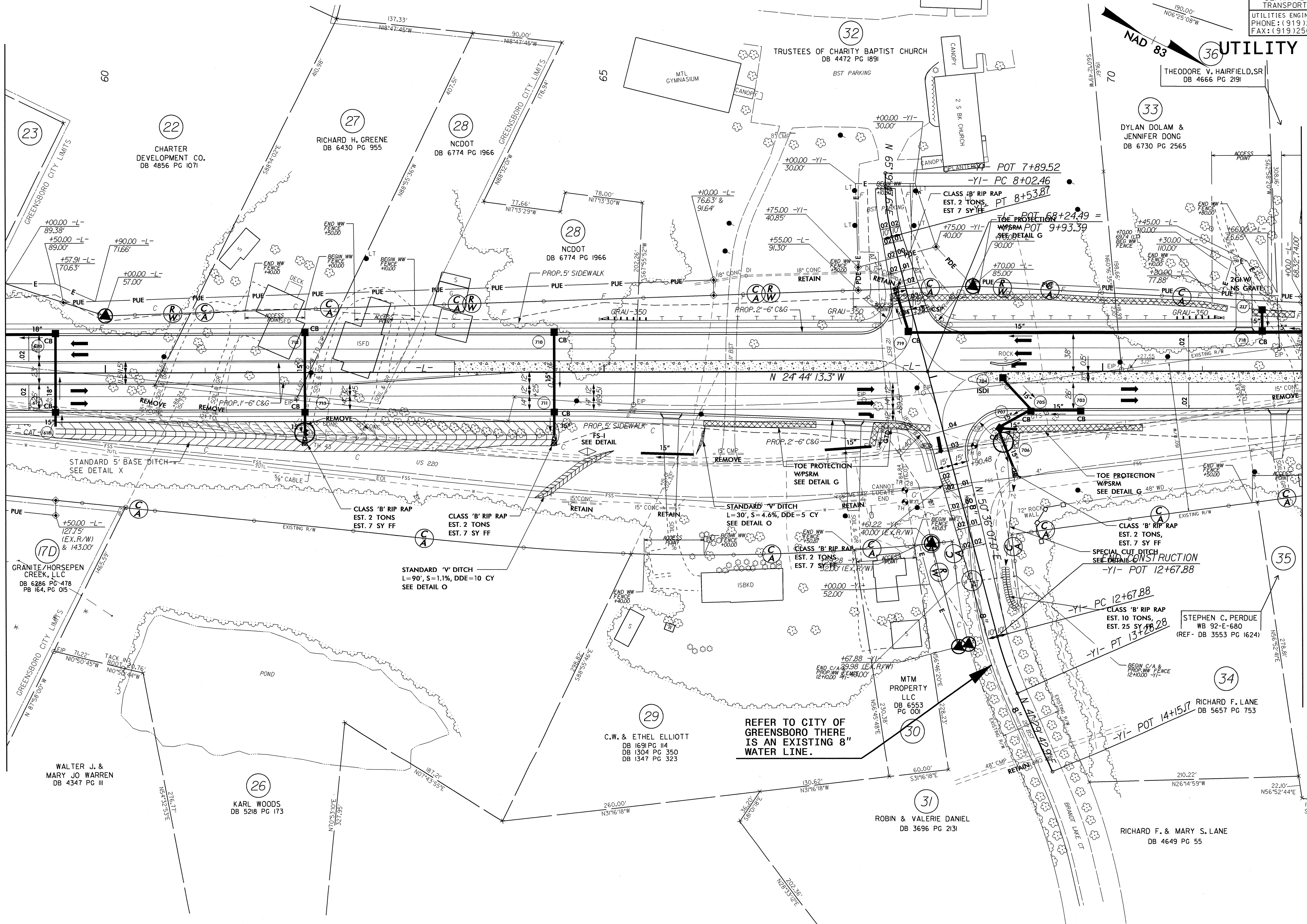
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PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-5
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119
UTILITY CONSTRUCTION PLANS ONLY	

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 RALEIGH OFFICE
 ENGINEERS • PLANNERS • ECOLOGISTS
 SUITE 220, LANDMARK CENTER II
 4601 SIX FORKS RD.
 RALEIGH, N.C. 27609-5210
 (919) 783-9244

MATCH LINE SEE SHEET NO. UC-4 -L- STA. 59+00

MATCH LINE SEE SHEET NO. UC-6 -L- STA. 72+00



REFER TO CITY OF GREENSBORO THERE IS AN EXISTING 8" WATER LINE.

5/14/99

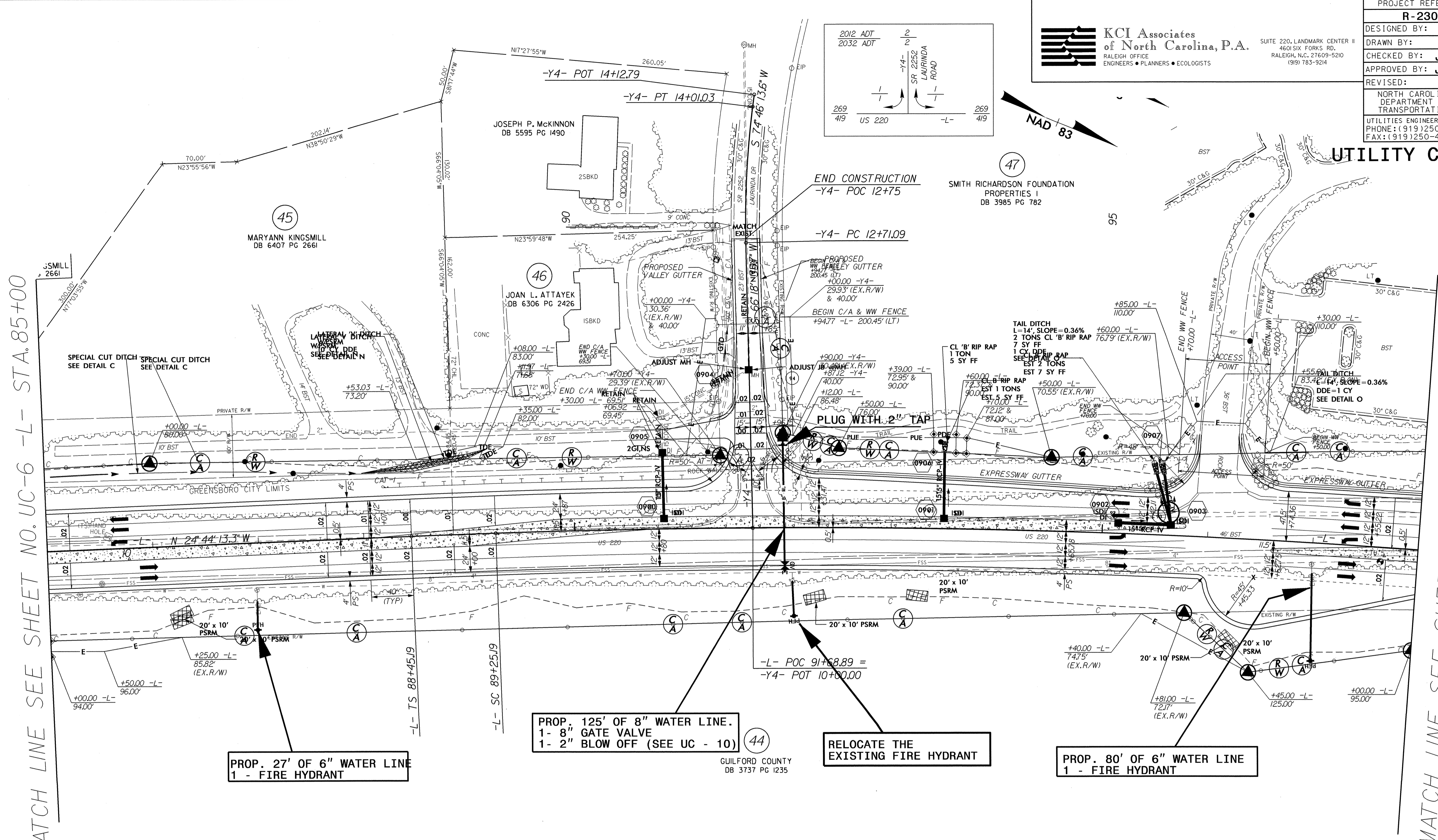
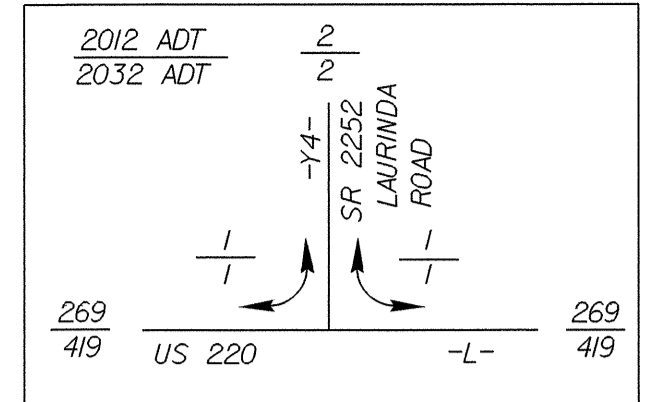
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5/14/99

06-SEP-2011 10:08 AM PLANS\R-2309AB-rdy.uc7_psh9.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-7
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

KCI Associates of North Carolina, P.A.
 RALEIGH OFFICE
 ENGINEERS • PLANNERS • ECOLOGISTS
 SUITE 220, LANDMARK CENTER II
 4601 SIX FORKS RD.
 RALEIGH, N.C. 27609-5210
 (919) 783-9214



MATCH LINE SEE SHEET NO. UC-6 -L- STA. 85+00

MATCH LINE SEE SHEET NO. UC-8 -L- STA. 98+00

PROP. 27' OF 6" WATER LINE
1 - FIRE HYDRANT

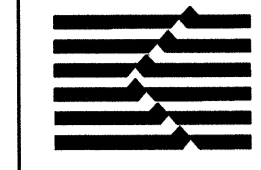
PROP. 125' OF 8" WATER LINE.
1 - 8" GATE VALVE
1 - 2" BLOW OFF (SEE UC - 10)

RELOCATE THE EXISTING FIRE HYDRANT

PROP. 80' OF 6" WATER LINE
1 - FIRE HYDRANT

GUILFORD COUNTY
DB 3737 PG 1235

5/14/99



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SUITE 220, LANDMARK CENTER II 4601 SIX FORKS RD. RALEIGH, N.C. 27609-5210 (919) 783-9214

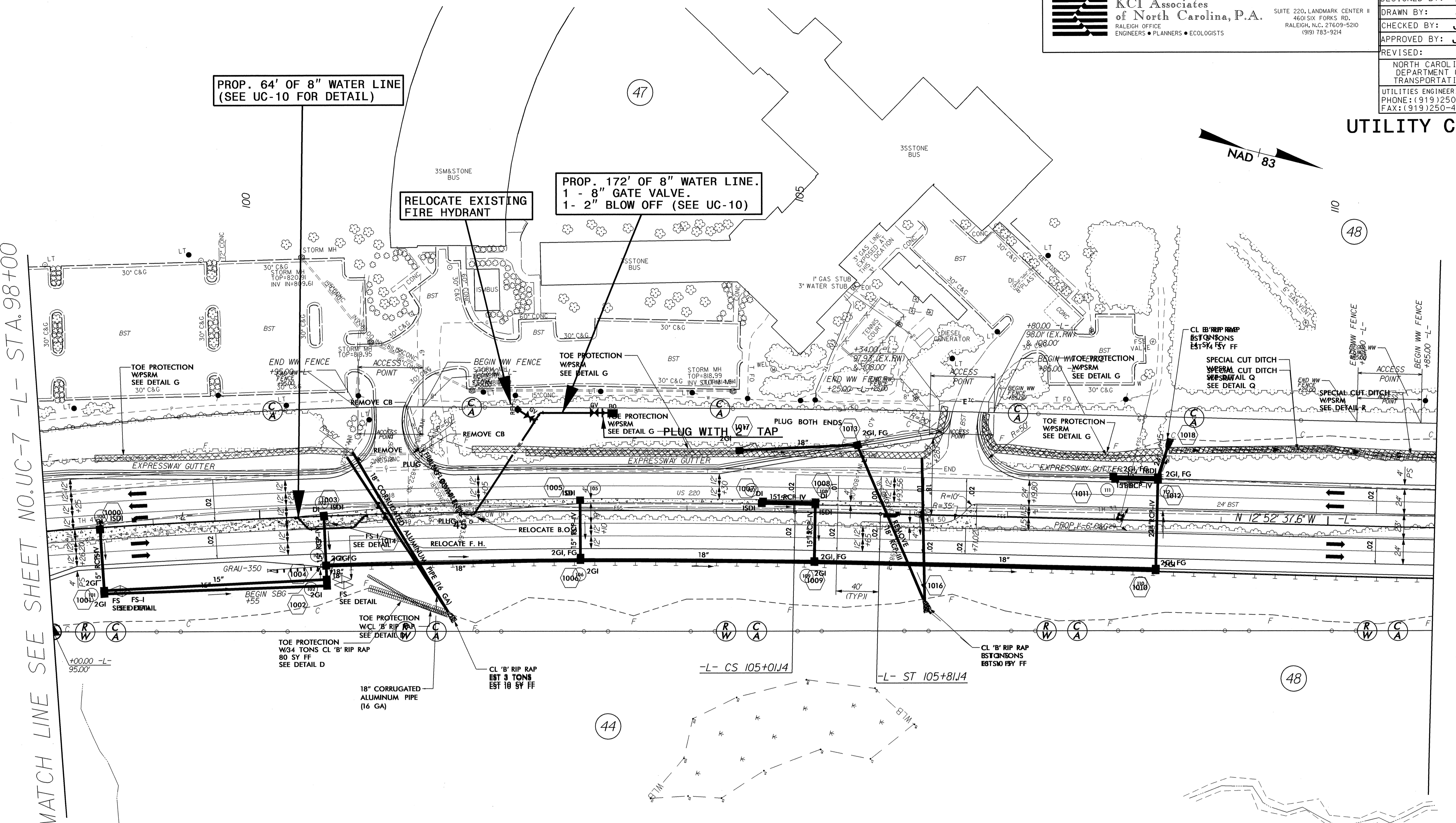
PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-8
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



MATCH LINE SEE SHEET NO. UC-7 -L- STA. 98+00

MATCH LINE SEE SHEET NO. 11 -L- STA. 111+00



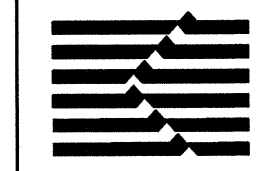
LEGEND

- PAVED SHOULDER
- PROPOSED MONOLITHIC ISLAND

FOR -L- PROFILE SEE SHEET 31
FOR -Y4- PROFILE SEE SHEET 42

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5/14/99

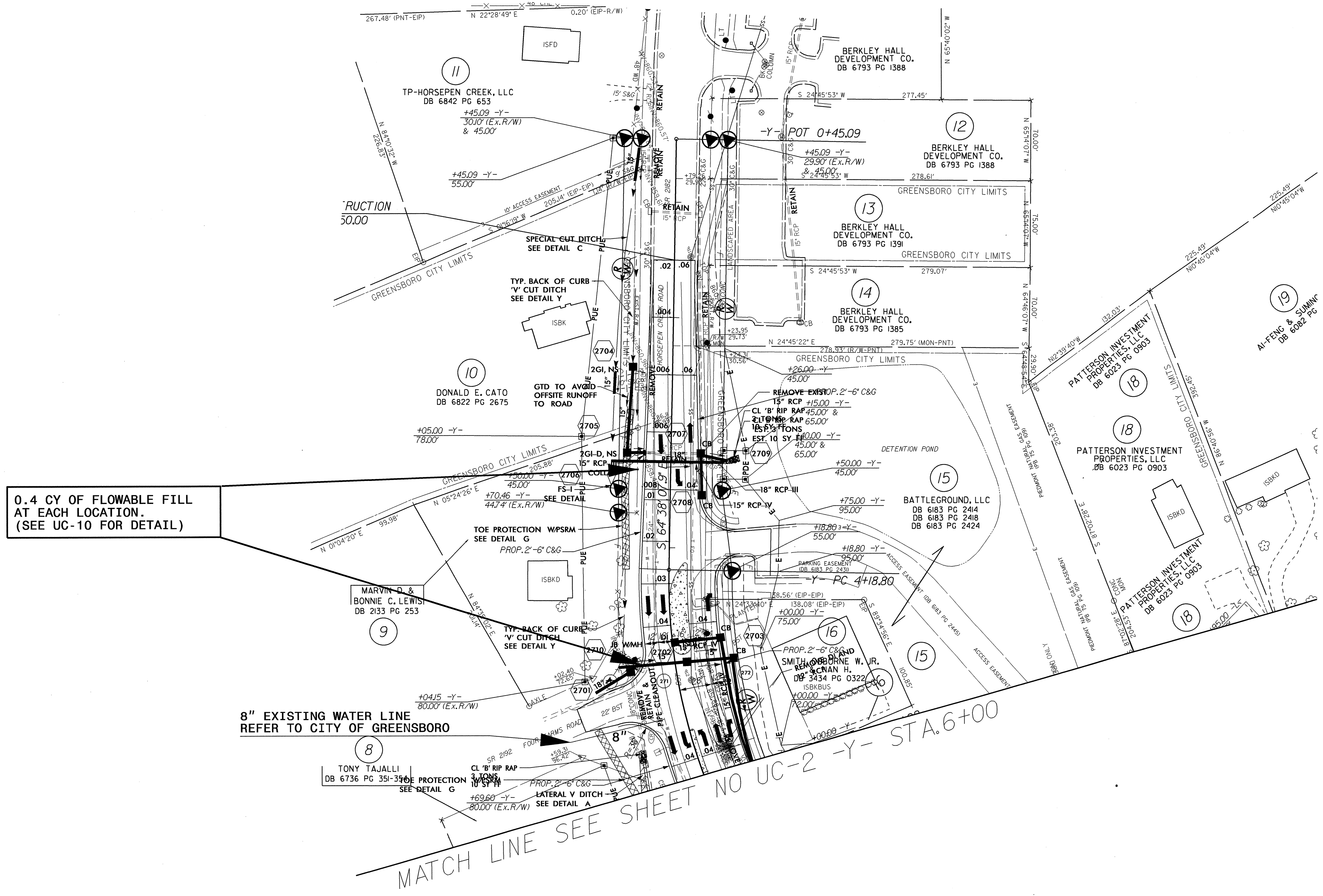
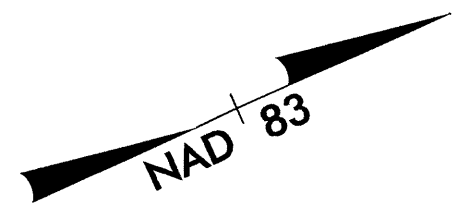


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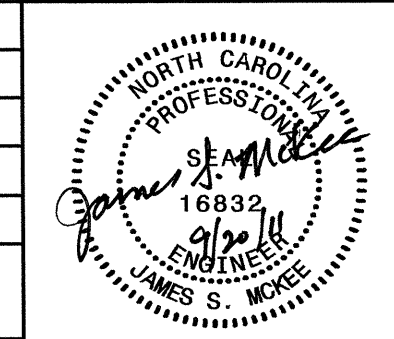
SUITE 220, LANDMARK CENTER II
460 SIX FORKS RD.
RALEIGH, N.C. 27609-5202
(919) 783-9214

PROJECT REFERENCE NO.	SHEET NO.
R-2309AB	UC-9
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISER:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

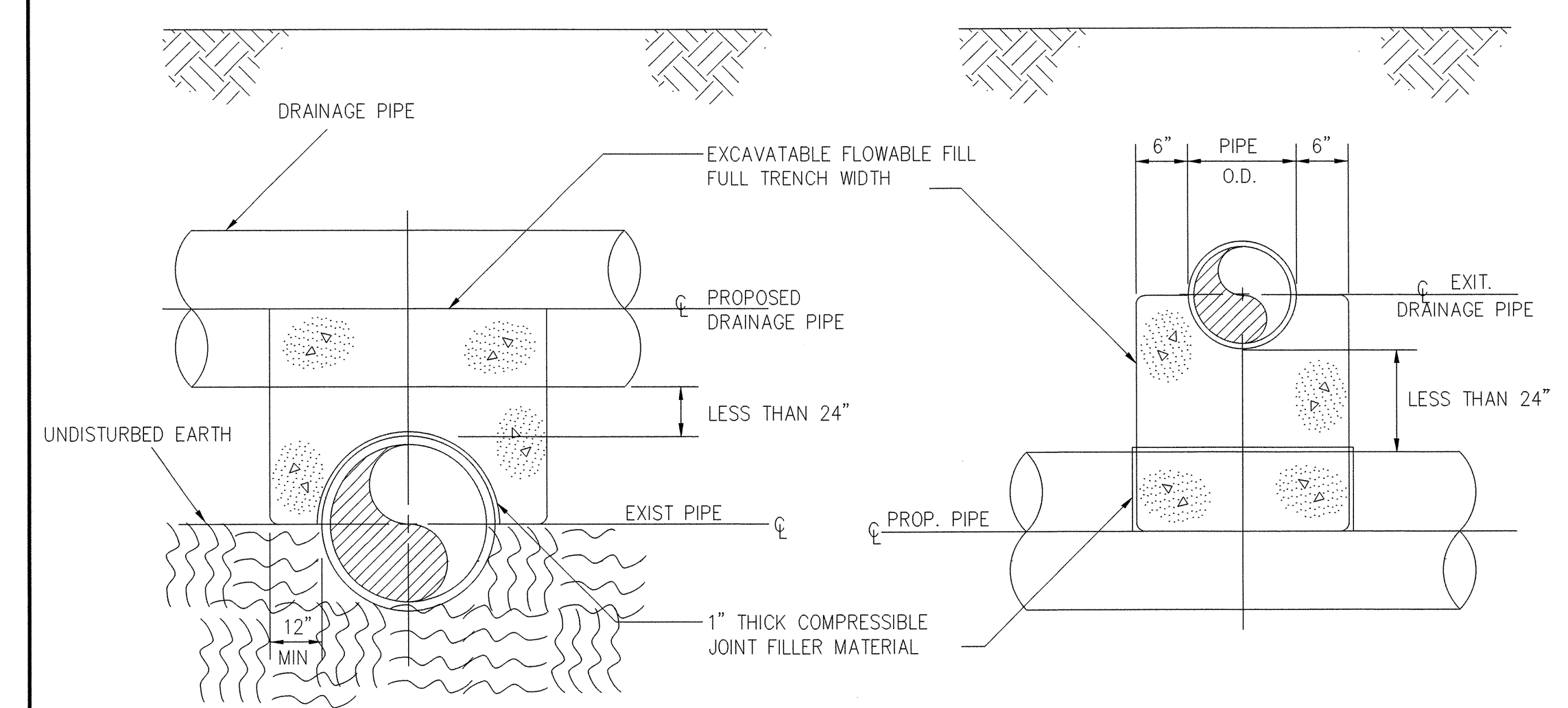


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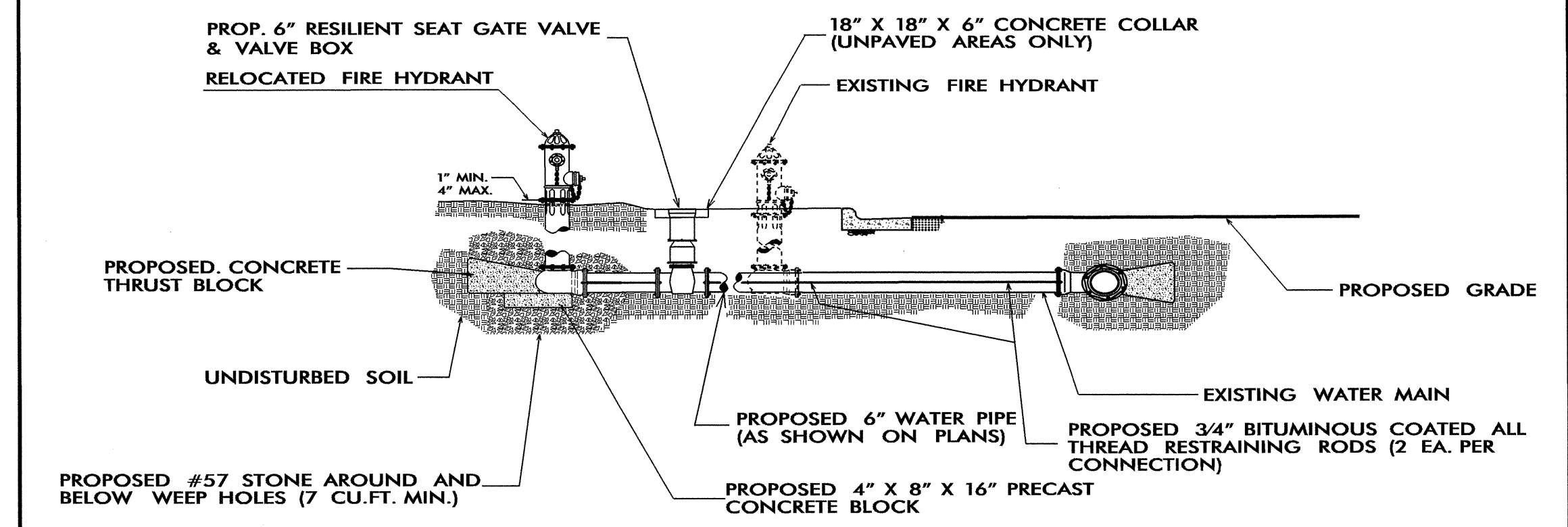


UTILITY CONSTRUCTION

FLOWABLE FILL ENCASEMENT

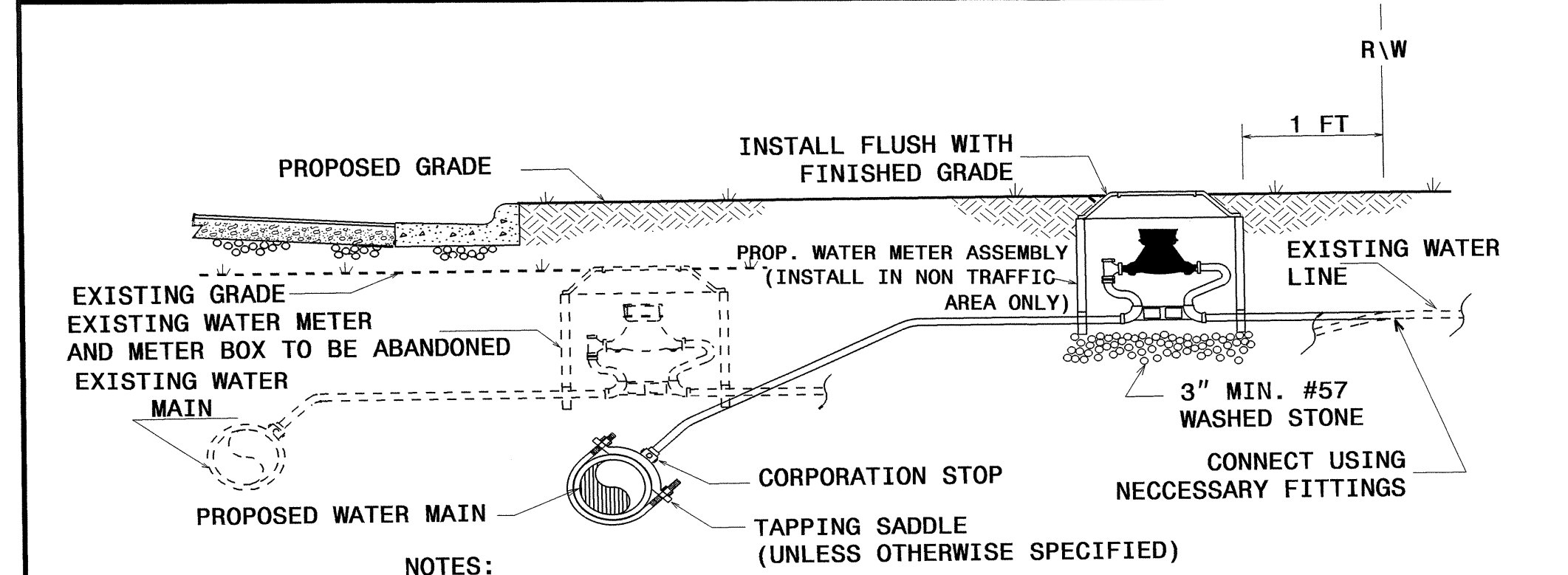


- GENERAL NOTES:**
- PUMPER NOZZLE SHALL BE PERPENDICULAR TO ROADWAY.
 - SWIVEL (LOCKED JOINTS) FITTINGS MAY BE USED IN LIEU OF 3/4" RESTRAINING RODS.
 - ALL CONCRETE SHALL BE CLASS "B".
 - HYDRANT BRANCH LINE SHALL HAVE THE SAME COVER AS THE MAIN (36" BRANCH).



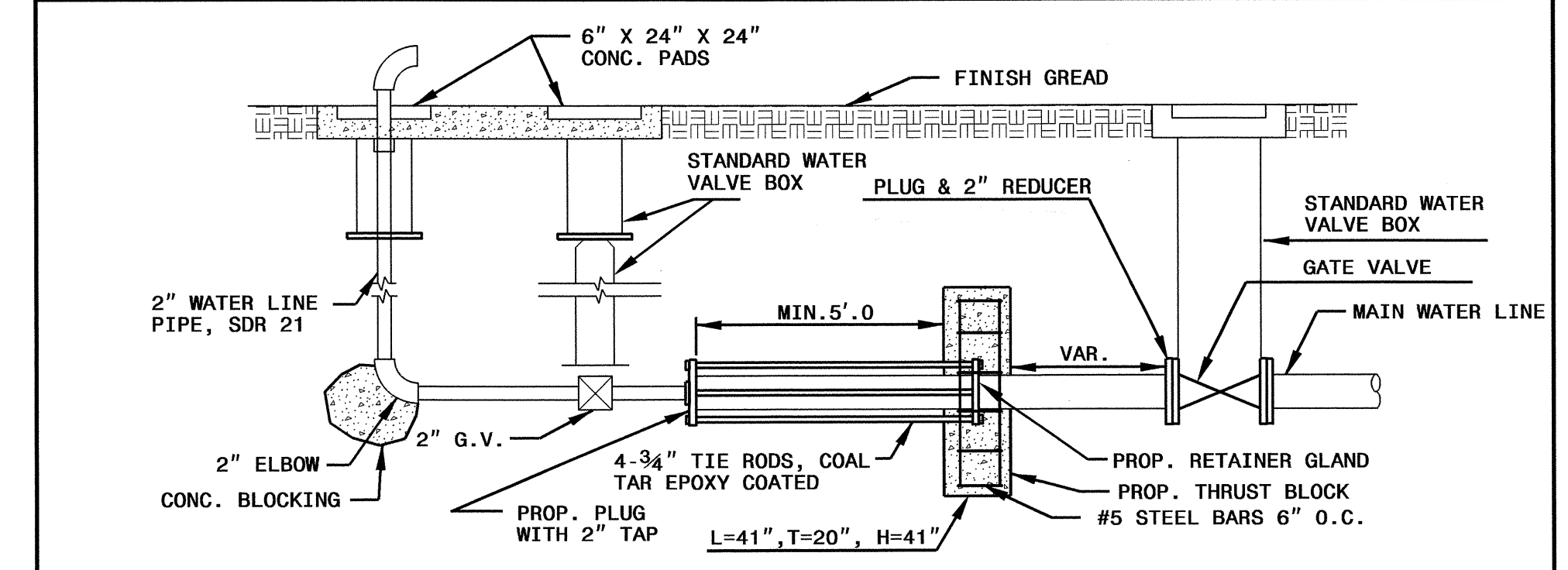
FIRE HYDRANT RELOCATION DETAIL

WATER METER ASSEMBLY DETAIL

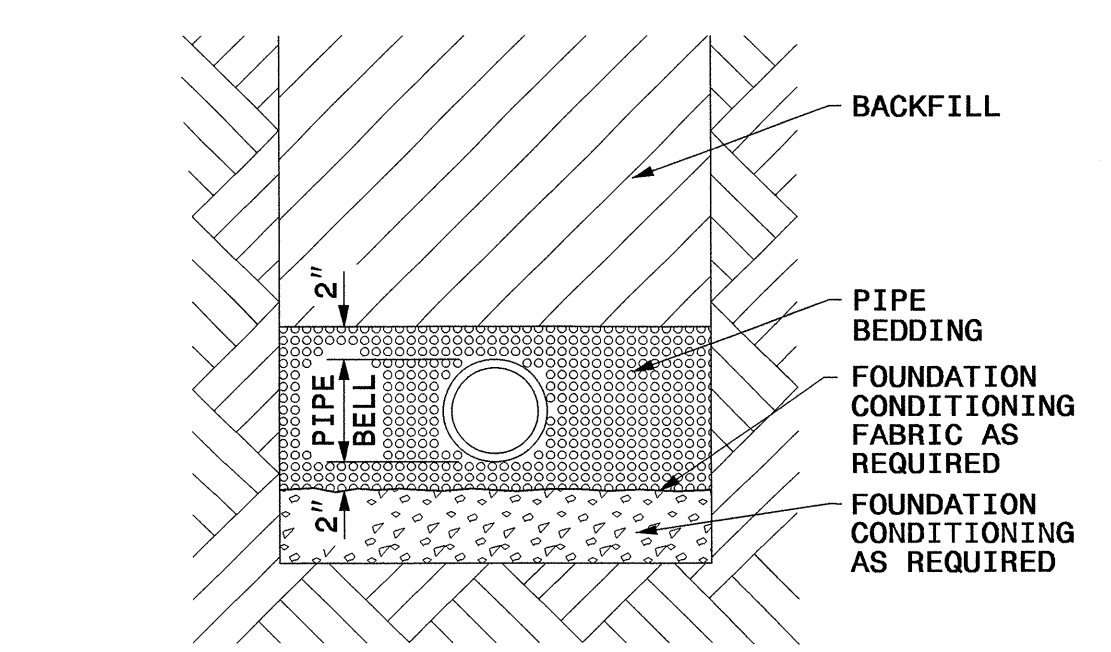


- NOTES:**
- THE INSTALLATION SHALL INCLUDE THE LABOR INSTALLATION OF THE METER SETTER AND YOKE WITH CHECK VALVE, METER VALVES, AND METER BOX WITH LID.
 - THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

2" BLOW OFF ASSEMBLY

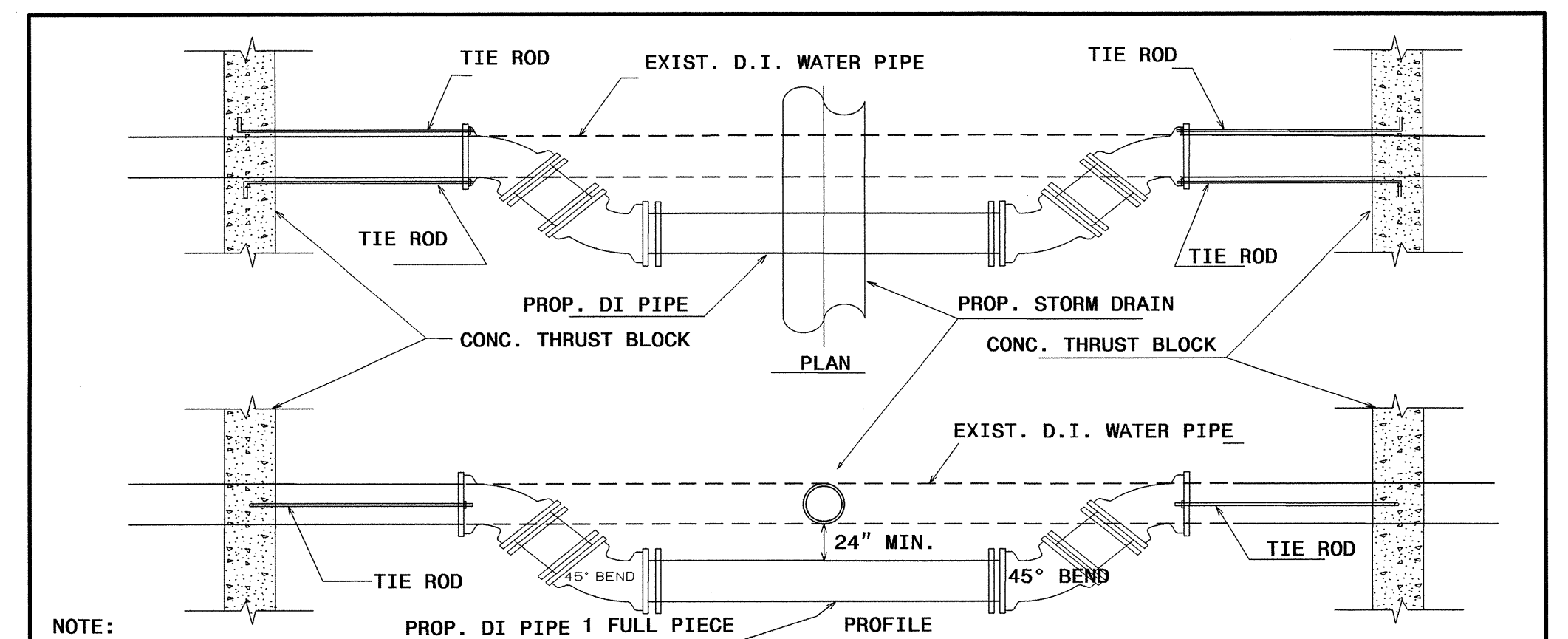


TRENCH DETAIL



PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. 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 APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (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		



- NOTE:**
- FITTINGS SHALL BE RESTRAINED BY USING TIE RODS OR OTHER METHOD AS APPROVED BY ENGINEER.
 - CONC. THRUST BLOCK SHALL BE PLACED AND CURED THREE DAYS PRIOR TO CUTTING EXISTING PIPE.

RE-ELEVATION OF EXIST. D.I. WATER PIPE AT PROP. STORM DRAINAGE AS SHOWN ON PLANS

5/14/99

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09/08/99

TIP PROJECT: R-2309AB

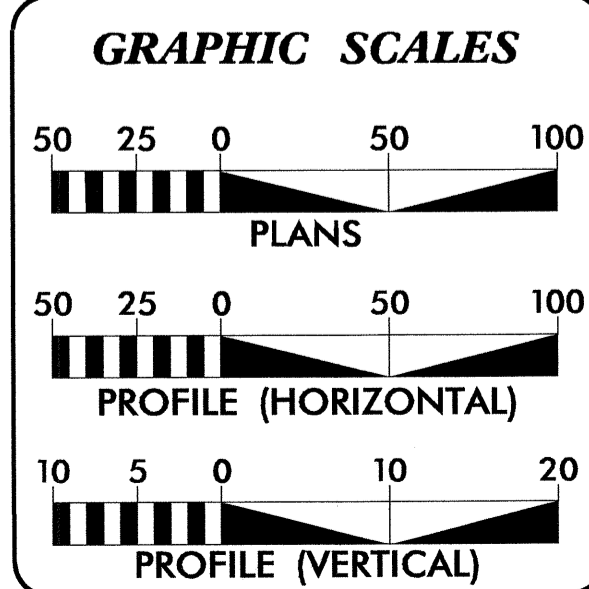
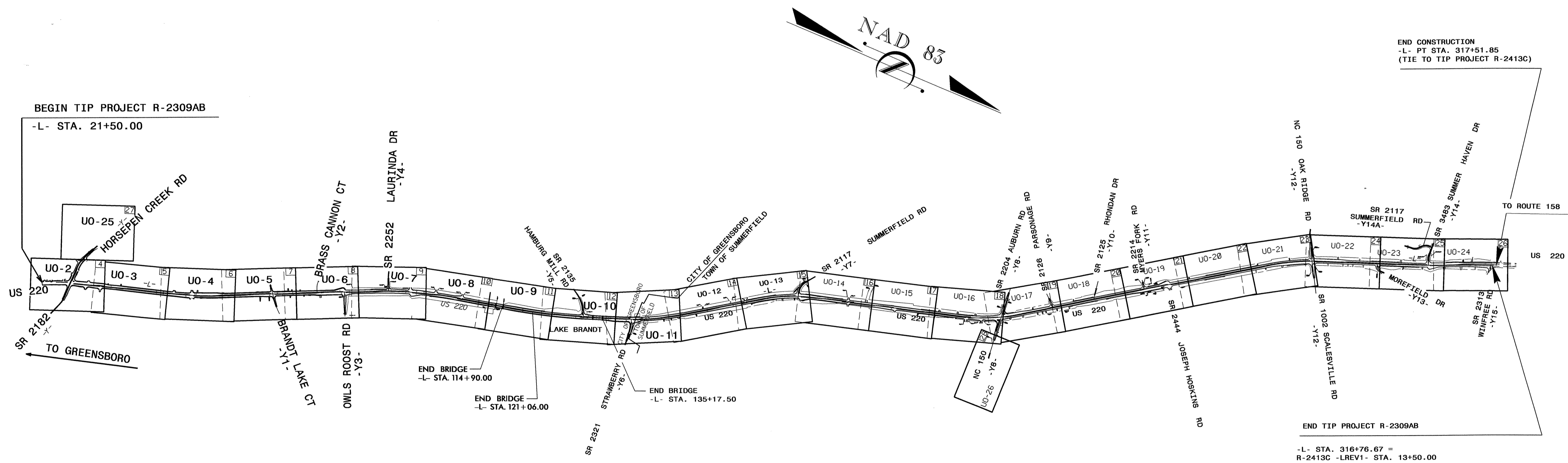
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
R-2309AB	UO-1

UTILITIES BY OTHERS PLANS
GUILFORD COUNTY

LOCATION: US 220 FROM SR 2182 (HORSEPEN CREEK RD.) TO 0.2 MILES NORTH OF SR 2313 (WINFREE RD.) IN GREENSBORO


TYPE OF WORK: UTILITIES



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-26	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT
- (1) Duke Energy (Power)
 - (2) AT&T (TELEPHONE)
 - (3) Time Warner (TV Cable)
 - (4) Piedmont Natural Gas Company (Gas)



PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Jamshid Hafshejani UTILITIES PROJECT DESIGNER

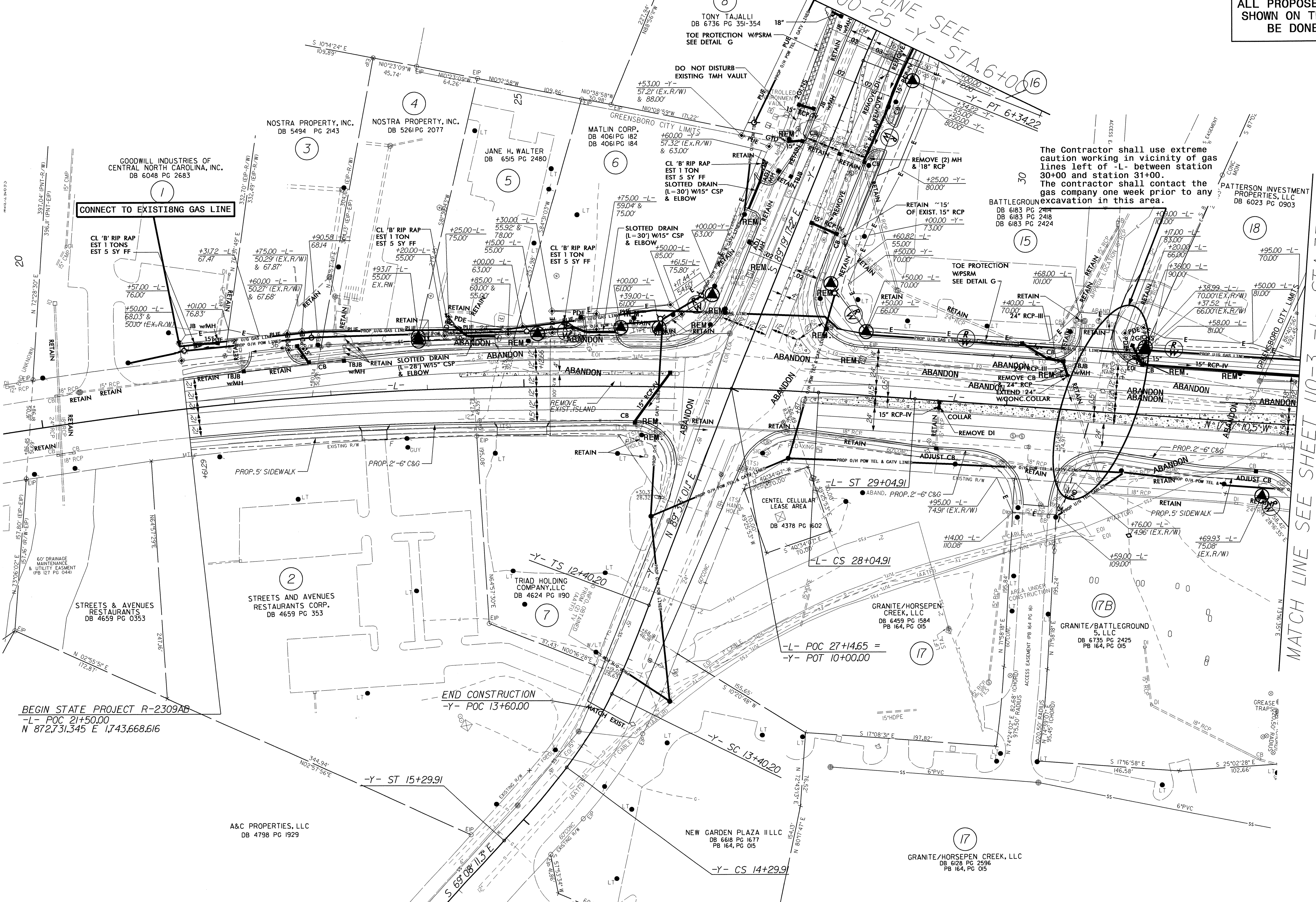
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\$\$\$\$\$USERNAME\$\$\$\$\$

UTILITIES BY OTHERS

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

NOTE:
The prop. U\G utilities shall be installed min. 2' under proposed and existing drainage pipe if it is in conflict.

SHEET MATCH LINE NO. U0-25 - SEE STA. 6+00.16
NAD 83



MATCH LINE SEE SHEET U0-3 -L- STA. 33+00

BEGIN STATE PROJECT R-2309AB
-L- POC 21+50.00
N 872,731.345 E 1,743,668.616

A&C PROPERTIES, LLC
DB 4798 PG 1929

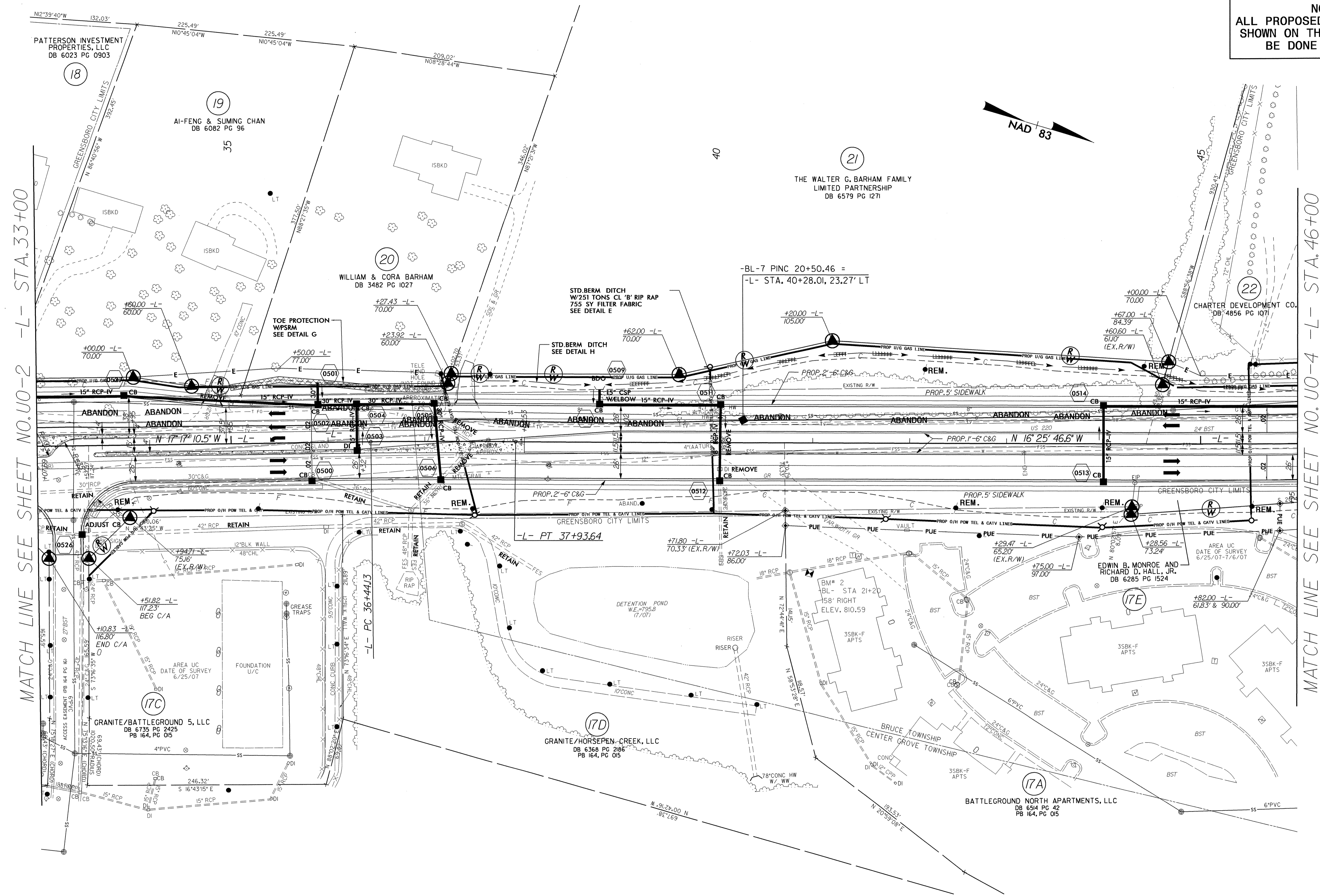
NEW GARDEN PLAZA III LLC
DB 6618 PG 1677
PB 164, PG 015

GRANITE/HORSEPEN CREEK, LLC
DB 6128 PG 2595
PB 164, PG 015

5/14/99
24-AUG-2010 09:30
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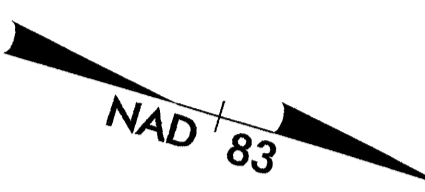
UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO. U0-2 -L- STA. 33+00

MATCH LINE SEE SHEET NO. U0-4 -L- STA. 46+00

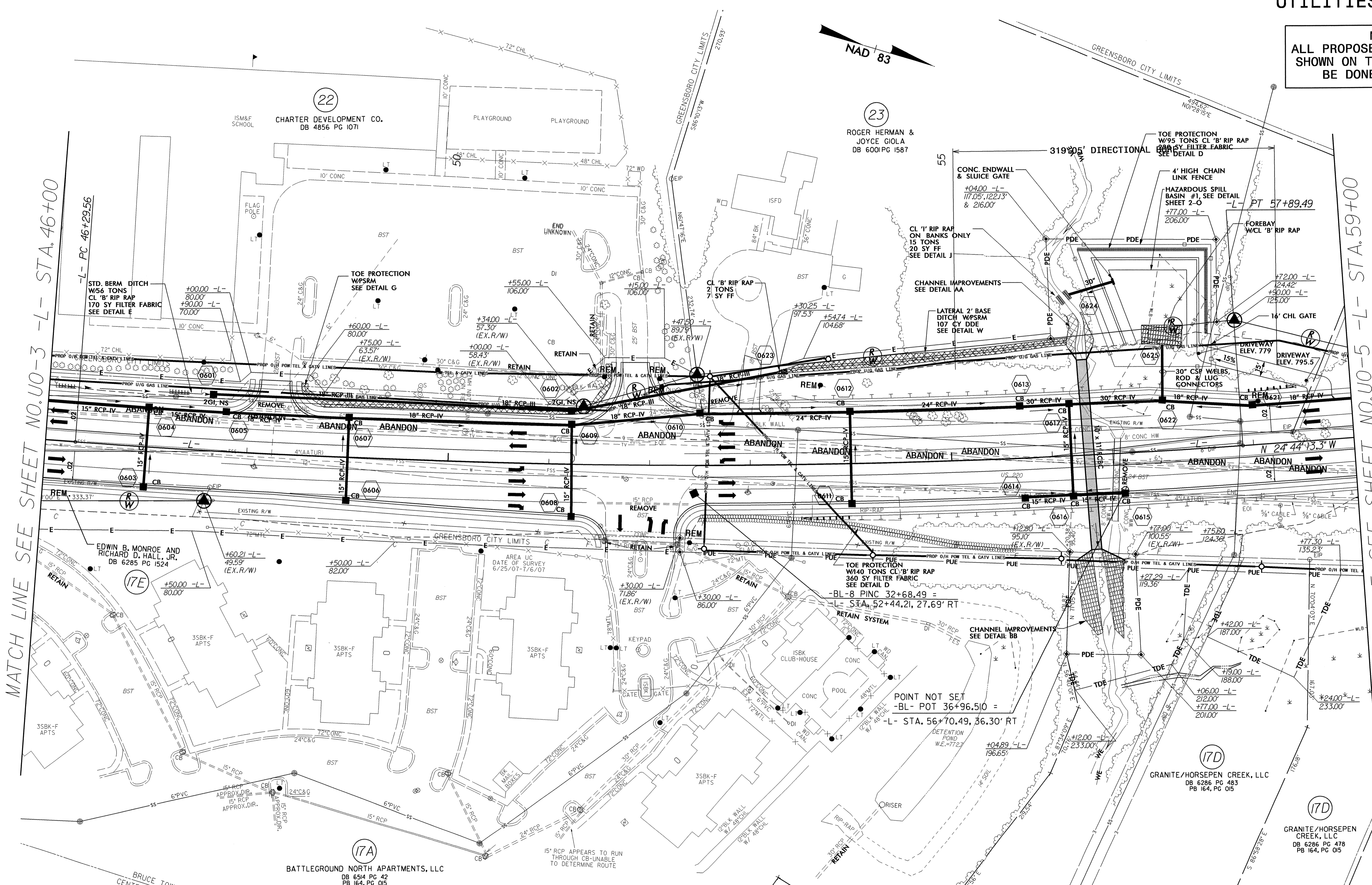


5/14/09

24-AUG-2010 08:31 PLANS-V-2309AB-U03.rdy-ps05.dgn

UTILITIES BY OTHERS

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



-L- CURVE DATA
 PI Sta 52+10.54
 $\Delta = 8^{\circ}18'26.7"$ (LT)
 $D = 0^{\circ}42'58.3"$
 $L = 1,159.93'$
 $T = 580.98'$
 $R = 8,000.00'$
 $SE = NORMAL CROWN$
 $V = 50 MPH$

MATCH LINE SEE SHEET NO.U0-3 -L- STA. 46+00

MATCH LINE SEE SHEET NO.U0-5 -L- STA. 59+00

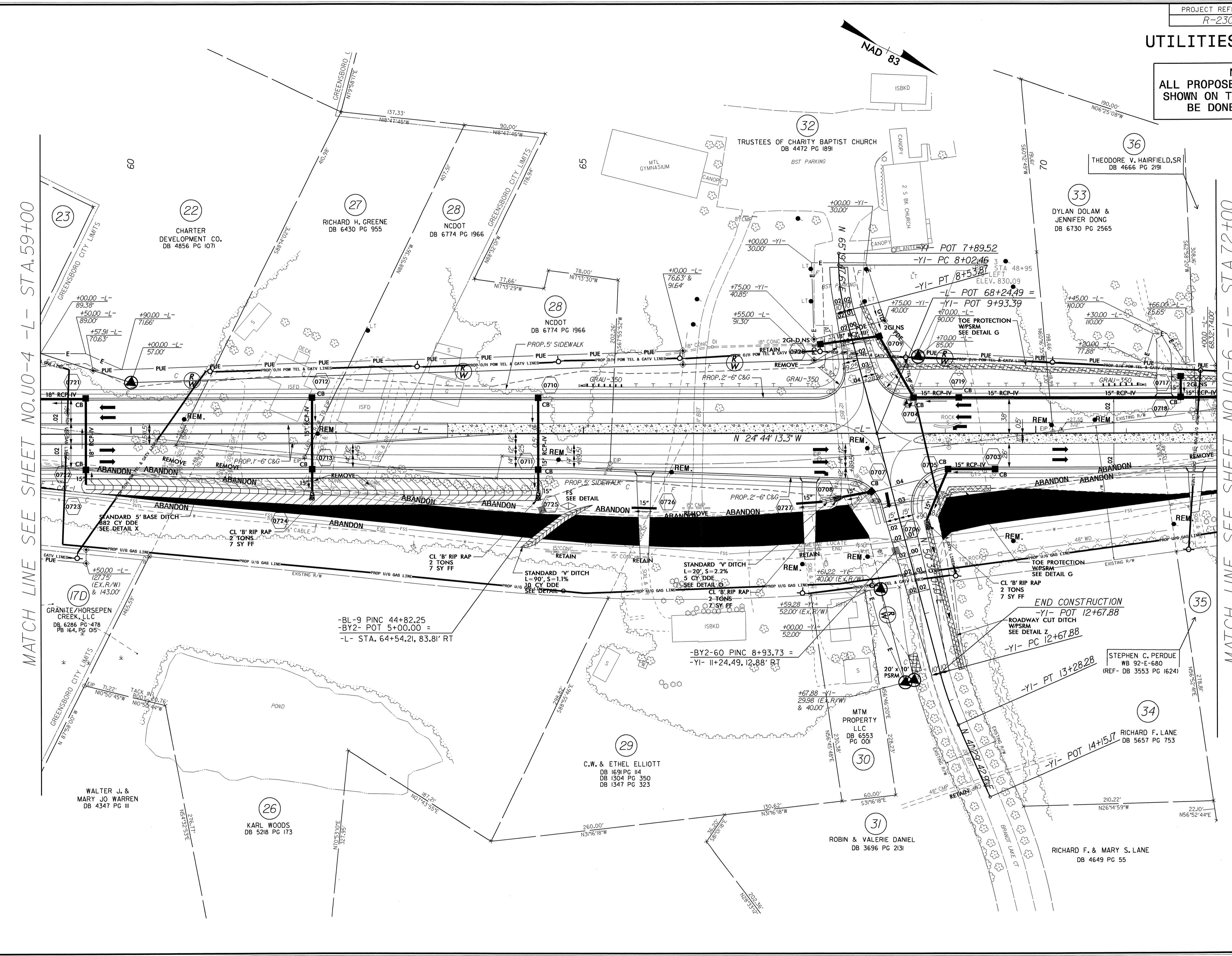
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UTILITIES BY OTHERS

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

MATCH LINE SEE SHEET NO.UO-4 -L- STA.59+00

MATCH LINE SEE SHEET NO.UO-6 -L- STA.72+00



5/14/99
24-AUG-2011 08:33
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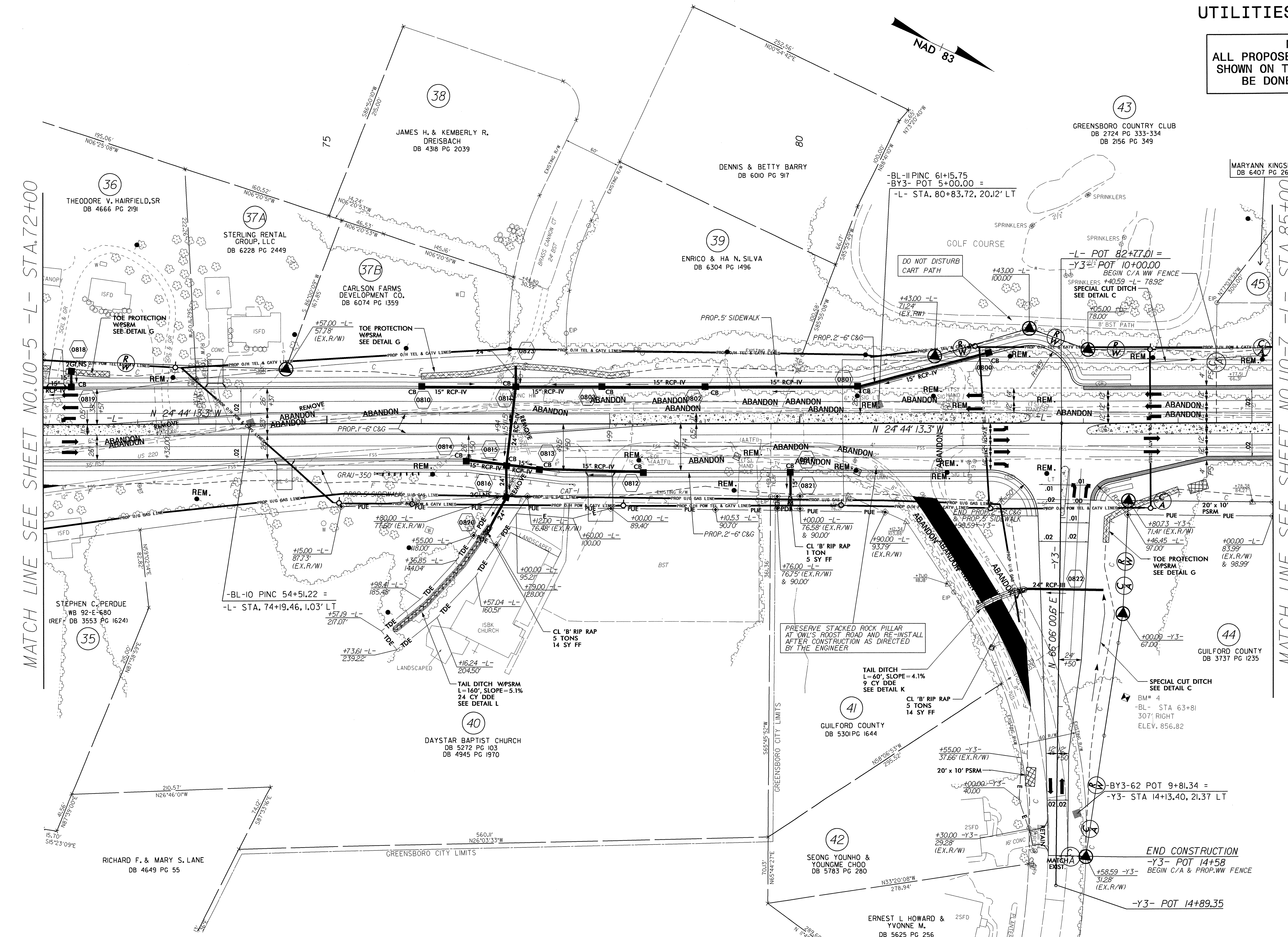
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995
1000

UTILITIES BY OTHERS

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

MATCH LINE SEE SHEET NO.UO-5 -L- STA.72+00

MATCH LINE SEE SHEET NO.UO-7 -L- STA.85+00



5/14/99
24-AUG-2010 08:54 PLANS\R-2309\ab.UO6.rdy.psh08.dgn

5/14/99

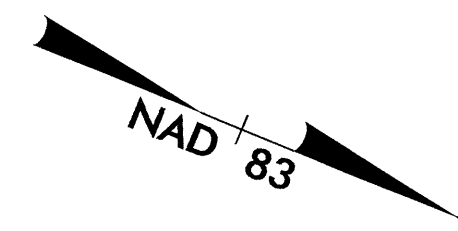
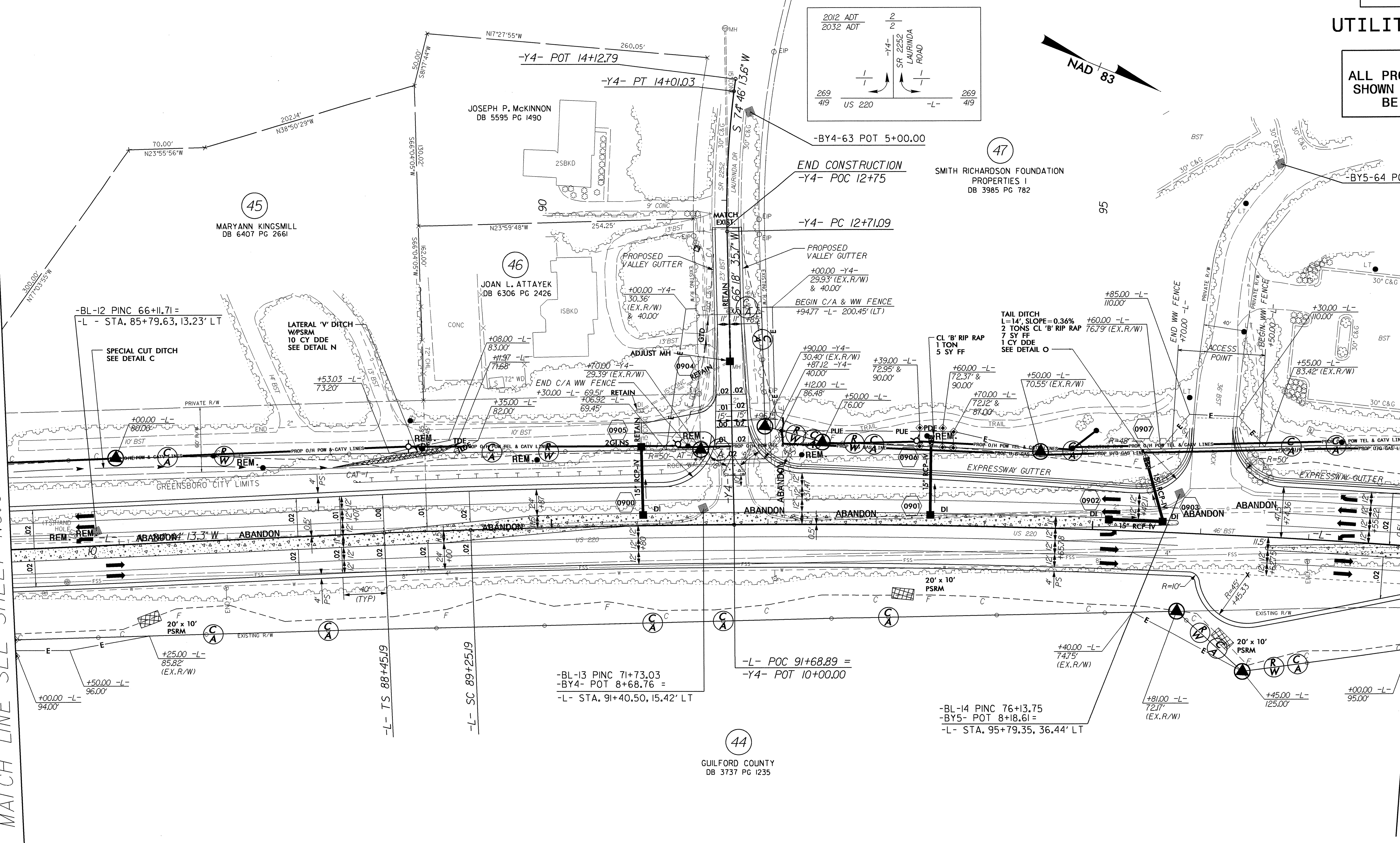
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R:\GIS\2011\08\34\PLANS\2309AB\U07_rdy_psh09.dgn

UTILITIES BY OTHERS

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

MATCH LINE SEE SHEET NO.U0-6 -L- STA.85+00

MATCH LINE SEE SHEET NO.U0-8 -L- STA.98+00



44
GUILFORD COUNTY
DB 3737 PG 1235

47
SMITH RICHARDSON FOUNDATION
PROPERTIES I
DB 3985 PG 782

45
MARYANN KINGSMILL
DB 6407 PG 2661

46
JOAN L. ATTAYEK
DB 6306 PG 2426

-BL-12 PINC 66+11.71=
-L- STA. 85+79.63, 13.23' LT
SPECIAL CUT DITCH
SEE DETAIL C

LATERAL 'V' DITCH
W/PSRM
10 CY DDE
SEE DETAIL N

GREENSBORO CITY LIMITS

20' x 10' PSRM
+25.00 -L-
85.82'
(EX.R/W)

+50.00 -L-
96.00'

-L- TS 88+45.19
-L- SC 89+25.19

-BL-13 PINC 71+73.03
-BY4- POT 8+68.76 =
-L- STA. 91+40.50, 15.42' LT

-L- POC 91+68.89 =
-Y4- POT 10+00.00

-BL-14 PINC 76+13.75
-BY5- POT 8+18.61 =
-L- STA. 95+79.35, 36.44' LT

TAIL DITCH
L=14' SLOPE=-0.36%
2 TONS CL 'B' RIP RAP 76.79' (EX.R/W)
7 SY FF
1 CY DDE
SEE DETAIL O

+85.00 -L-
110.00'

+60.00 -L-
72.37' &
90.00'

+50.00 -L-
70.55' (EX.R/W)

+70.00 -L-
72.12' &
87.00'

+30.00 -L-
110.00'

+55.00 -L-
83.42' (EX.R/W)

+40.00 -L-
74.75'
(EX.R/W)

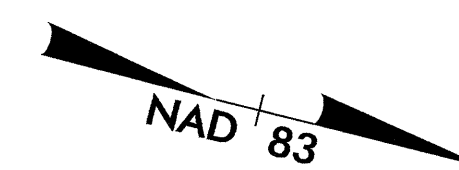
+81.00 -L-
72.17'
(EX.R/W)

+45.00 -L-
125.00'

+00.00 -L-
95.00'

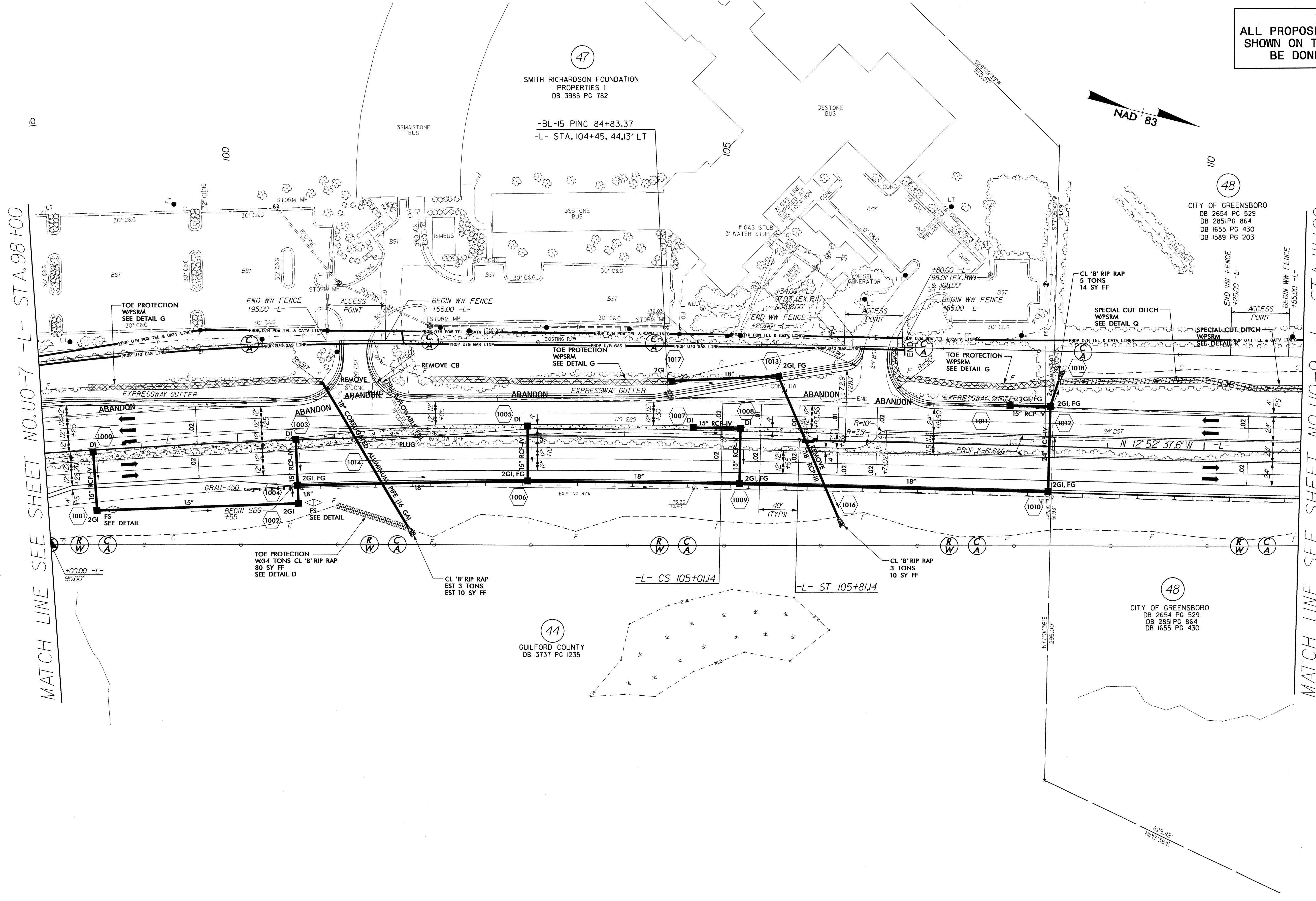
UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO.UO-7 -L- STA.98+00

MATCH LINE SEE SHEET NO.UO-9 -L- STA.111+00



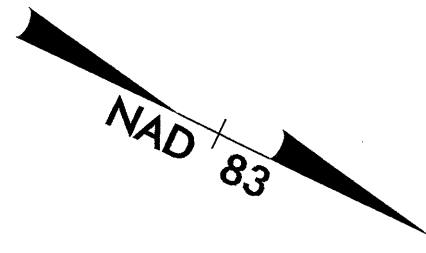
5/14/99

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UTILITIES BY OTHERS

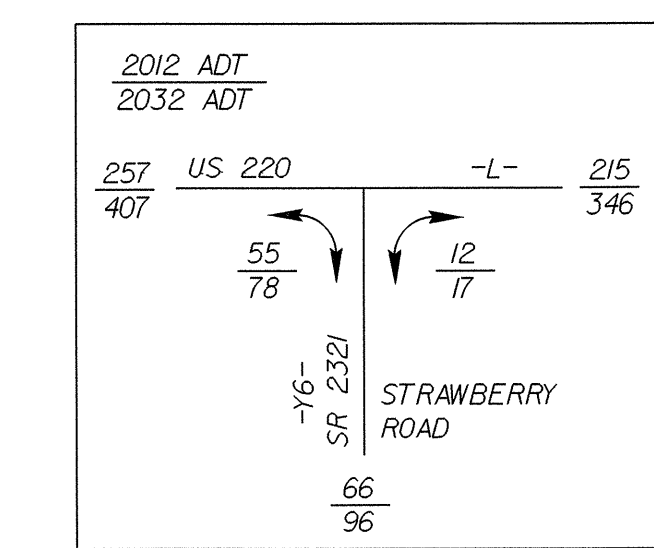
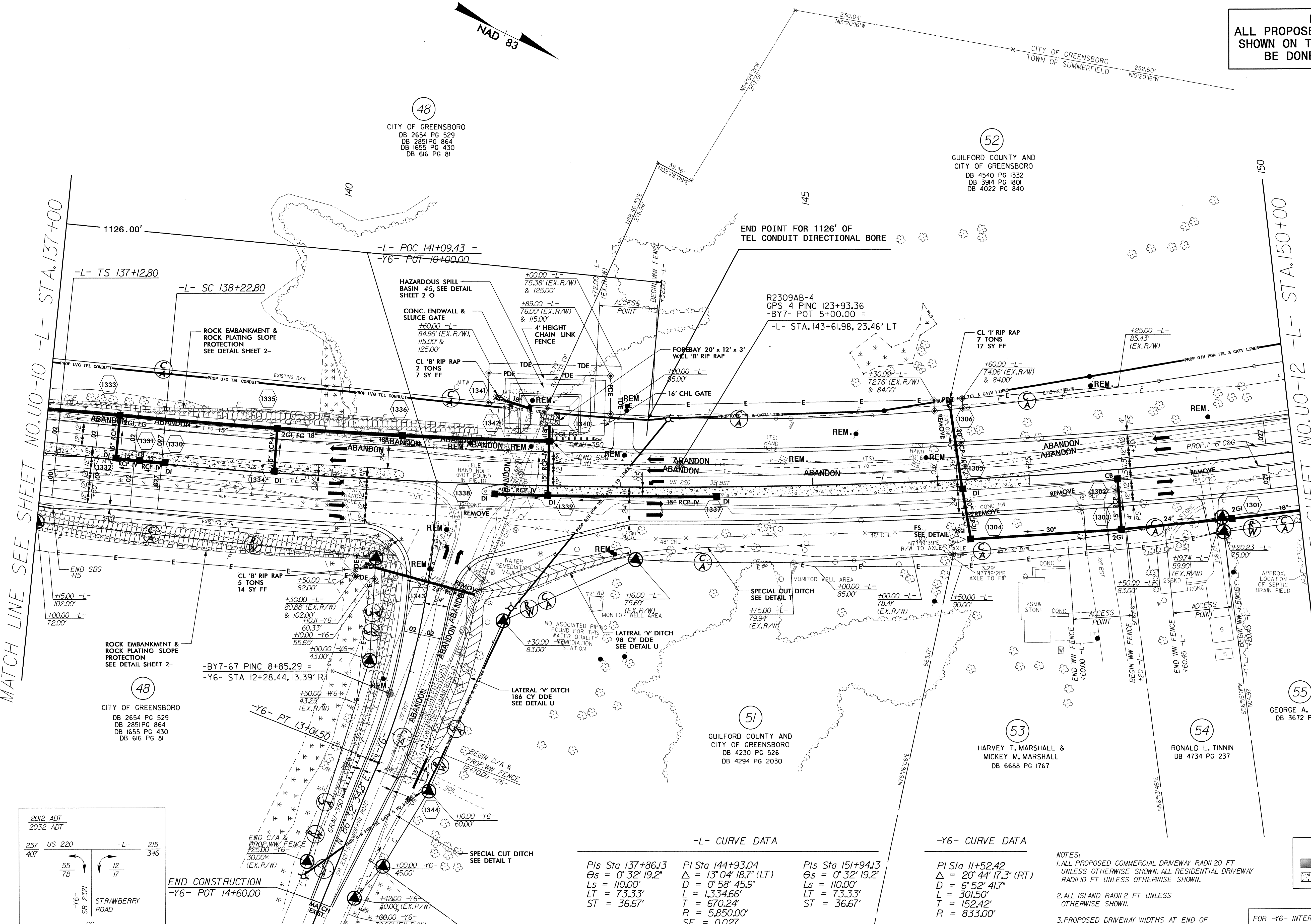
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

5/14/99



MATCH LINE SEE SHEET NO. UO-10 -L- STA. 137+00

MATCH LINE SEE SHEET NO. UO-12 -L- STA. 150+00



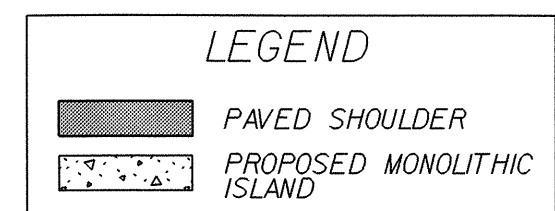
-L- CURVE DATA

Pls Sta 137+86.13 Θs = 0° 32' 19.2" Ls = 110.00' LT = 73.33' ST = 36.67'	Pl Sta 144+93.04 Δ = 13° 04' 18.7" (LT) D = 0° 58' 45.9" L = 1,334.66' T = 670.24' R = 5,850.00' SE = 0.027 RUNOFF = SEE PLANS V = 60 MPH	Pls Sta 151+94.13 Θs = 0° 32' 19.2" Ls = 110.00' LT = 73.33' ST = 36.67'
--	---	--

-Y6- CURVE DATA

Pl Sta 11+52.42 Δ = 20° 44' 17.3" (RT) D = 6° 52' 41.7" L = 301.50' T = 152.42' R = 833.00'
--

- NOTES:
1. ALL PROPOSED COMMERCIAL DRIVEWAY RADII 20 FT UNLESS OTHERWISE SHOWN. ALL RESIDENTIAL DRIVEWAY RADII 10 FT UNLESS OTHERWISE SHOWN.
 2. ALL ISLAND RADII 2 FT UNLESS OTHERWISE SHOWN.
 3. PROPOSED DRIVEWAY WIDTHS AT END OF RADII 16 FT UNLESS OTHERWISE SHOWN. TAPER DRIVEWAY TO EXISTING DRIVEWAY WIDTH.



FOR -Y6- INTERSECTION DETAIL SEE SHEET 2-R
FOR -L- PROFILE SEE SHEET 33
FOR -Y6- PROFILE SEE SHEET 42

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UTILITIES BY OTHERS

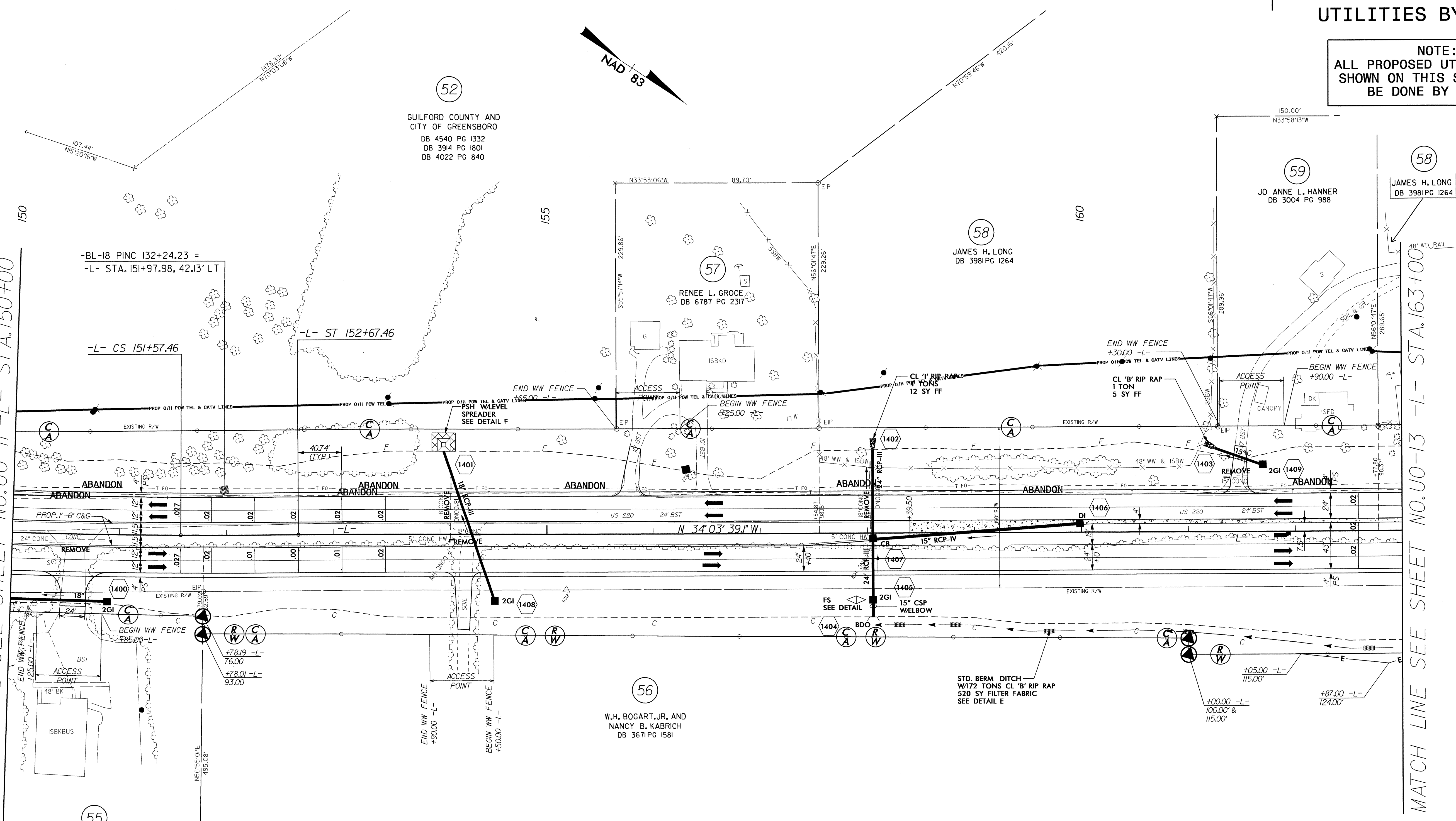
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

5/14/99

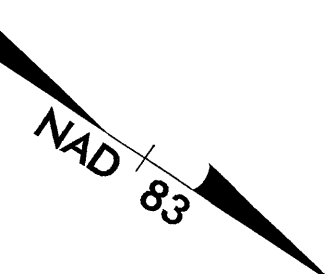
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MATCH LINE SEE SHEET NO. U0-11 -L- STA. 150+00

MATCH LINE SEE SHEET NO. U0-13 -L- STA. 163+00



52
GUILFORD COUNTY AND
CITY OF GREENSBORO
DB 4540 PG 1332
DB 3914 PG 1801
DB 4022 PG 840



56
W.H. BOGART, JR. AND
NANCY B. KABRICH
DB 3671 PG 1581

58
JAMES H. LONG
DB 3981 PG 1264

59
JO ANNE L. HANNER
DB 3004 PG 988

58
JAMES H. LONG
DB 3981 PG 1264

-BL-18 PINC 132+24.23 =
-L- STA. 151+97.98, 42.13' LT

-L- CS 151+57.46

-L- ST 152+67.46

BEGIN WW FENCE
+78.19 -L-
76.00
+78.01 -L-
93.00

END WW FENCE
+90.00 -L-
BEGIN WW FENCE
+50.00 -L-

STD. BERM DITCH
W/12 TONS CL 'B' RIP RAP
520 SY FILTER FABRIC
SEE DETAIL E

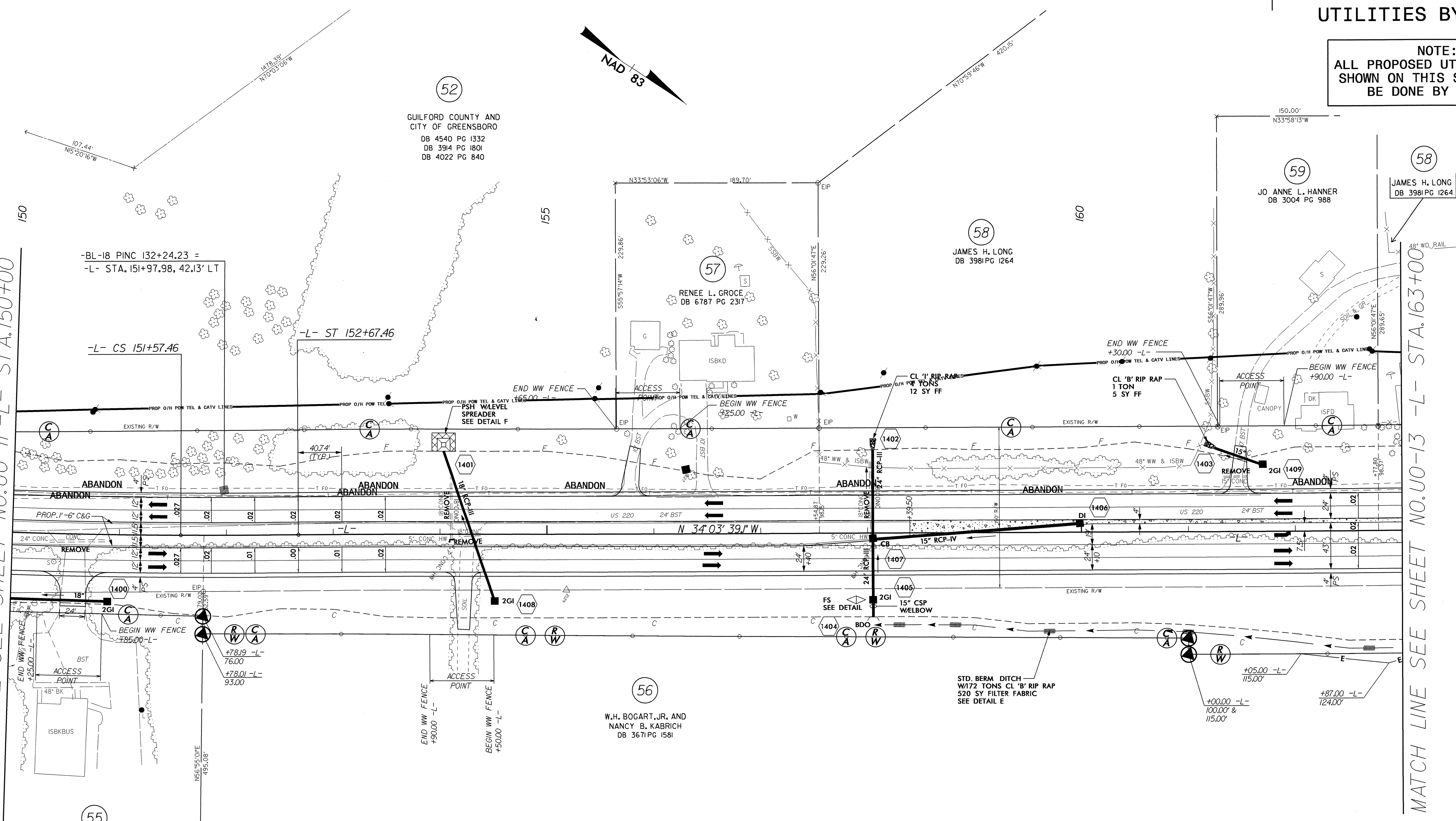
+05.00 -L-
115.00'
+00.00 -L-
100.00' &
115.00'
+87.00 -L-
124.00'

55
GEORGE A. RILLINGS
DB 3672 PG 1448

57
RENEE L. GROCE
DB 6787 PG 2317

MATCH LINE SEE SHEET NO. U0-11 -L- STA. 150+00

MATCH LINE SEE SHEET NO. U0-13 -L- STA. 163+00



-BL-18 PINC 132+24.23 =
-L- STA. 151+97.98, 42.13' LT

-L- CS 151+57.46

-L- ST 152+67.46

BEGIN WW FENCE
+78.19 -L-
76.00
+78.01 -L-
93.00

END WW FENCE
+90.00 -L-
BEGIN WW FENCE
+50.00 -L-

STD. BERM DITCH
W/12 TONS CL 'B' RIP RAP
520 SY FILTER FABRIC
SEE DETAIL E

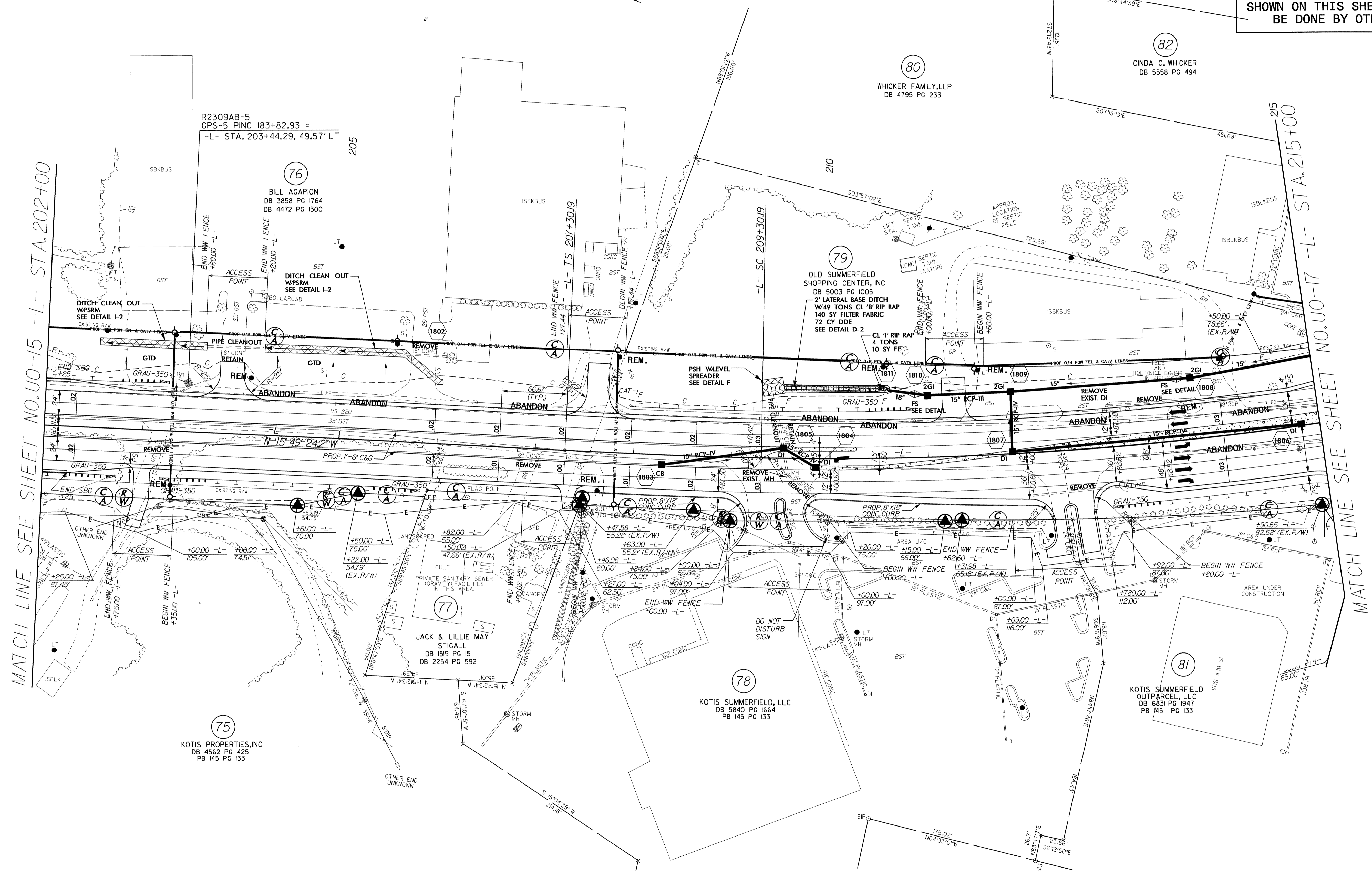
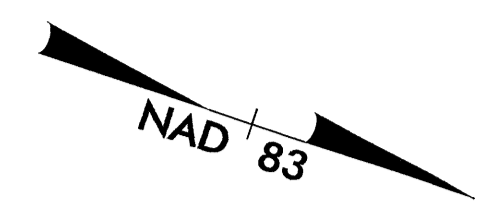
+05.00 -L-
115.00'
+00.00 -L-
100.00' &
115.00'
+87.00 -L-
124.00'

55
GEORGE A. RILLINGS
DB 3672 PG 1448

57
RENEE L. GROCE
DB 6787 PG 2317

UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO. U0-15 -L- STA. 202+00

MATCH LINE SEE SHEET NO. U0-17 -L- STA. 215+00

R2309AB-5
GPS-5 PINC 183+82.93 =
-L- STA. 203+44.29, 49.57' LT

76
BILL AGAPION
DB 3858 PG 1764
DB 4472 PG 1300

80
WHICKER FAMILY,LLP
DB 4795 PG 233

82
CINDA C. WHICKER
DB 5558 PG 494

79
OLD SUMMERFIELD
SHOPPING CENTER, INC
DB 5003 PG 1005
2' LATERAL BASE DITCH
W/49 TONS CL 'B' RIP RAP
140 SY FILTER FABRIC
72 CY DDE
SEE DETAIL D-2

77
JACK & LILLIE MAY
STIGALL
DB 1519 PG 15
DB 2254 PG 592

78
KOTIS SUMMERFIELD, LLC
DB 5840 PG 1664
PB 145 PG 133

75
KOTIS PROPERTIES, INC
DB 4562 PG 425
PB 145 PG 133

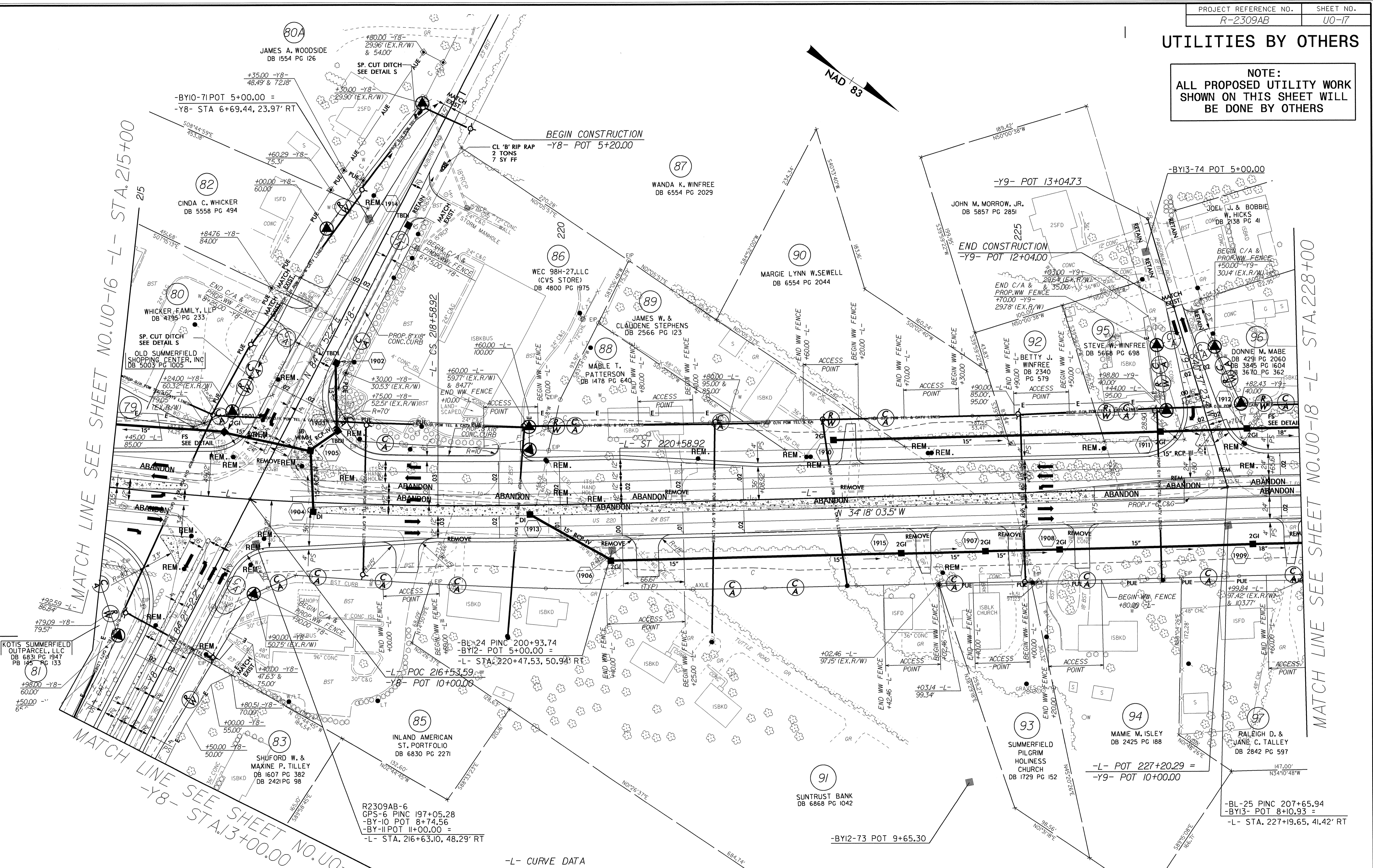
81
KOTIS SUMMERFIELD
OUTPARCEL, LLC
DB 6831 PG 1947
PB 145 PG 133

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UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO. UO-16 -L- STA. 215+00

MATCH LINE SEE SHEET NO. UO-18 -L- STA. 228+00

MATCH LINE SEE SHEET NO. UO-26
-Y8- STA. 13+00.00

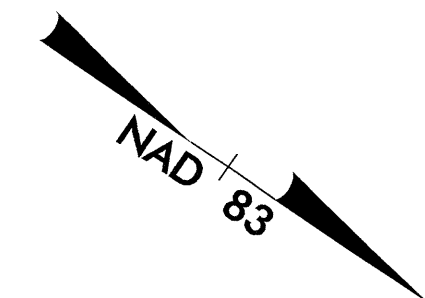
-L- CURVE DATA

Pls Sta 208+63.53	Pl Sta 213+97.30	Pls Sta 219+25.59
Gs = 1'38"13.3"	Δ = 15'12"12.7" (LT)	Gs = 1'38"13.3"
Ls = 200.00'	D = 1'38"13.3"	Ls = 200.00'
LT = 133.34'	L = 928.73'	LT = 133.34'
ST = 66.67'	T = 467.11'	ST = 66.67'
	R = 3,500.00'	
	SE = 0.03	
	RUNOFF = SEE PLANS	
	V = 60 MPH	

5/14/2019
24-AUG-2010 08:42 PLANS-V-2309AB-U017_rdy-psht19.dgn

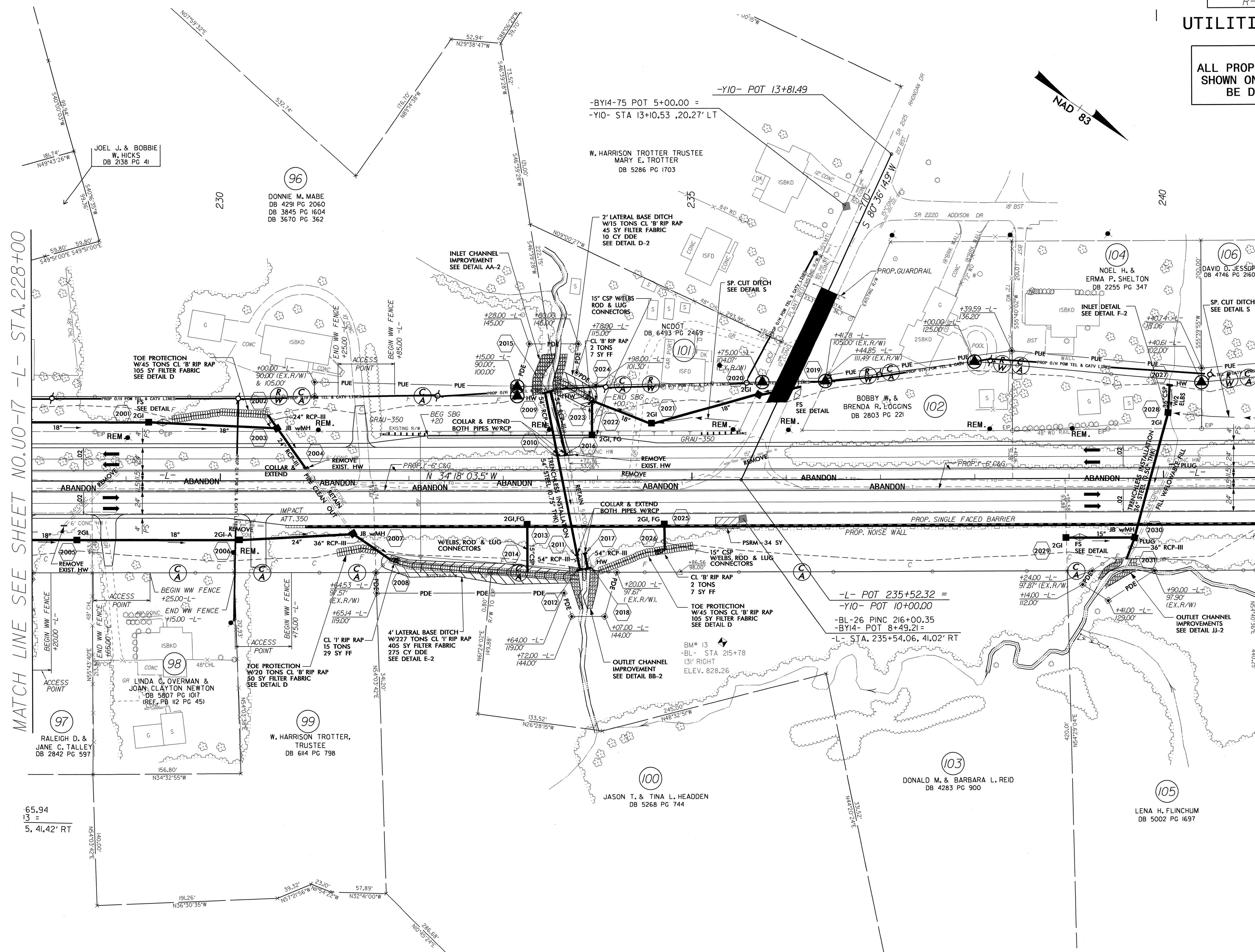
UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO. U0-17 -L- STA. 228+00

MATCH LINE SEE SHEET NO. U0-19 -L- STA. 241+00



65.94
13 =
5, 41.42' RT

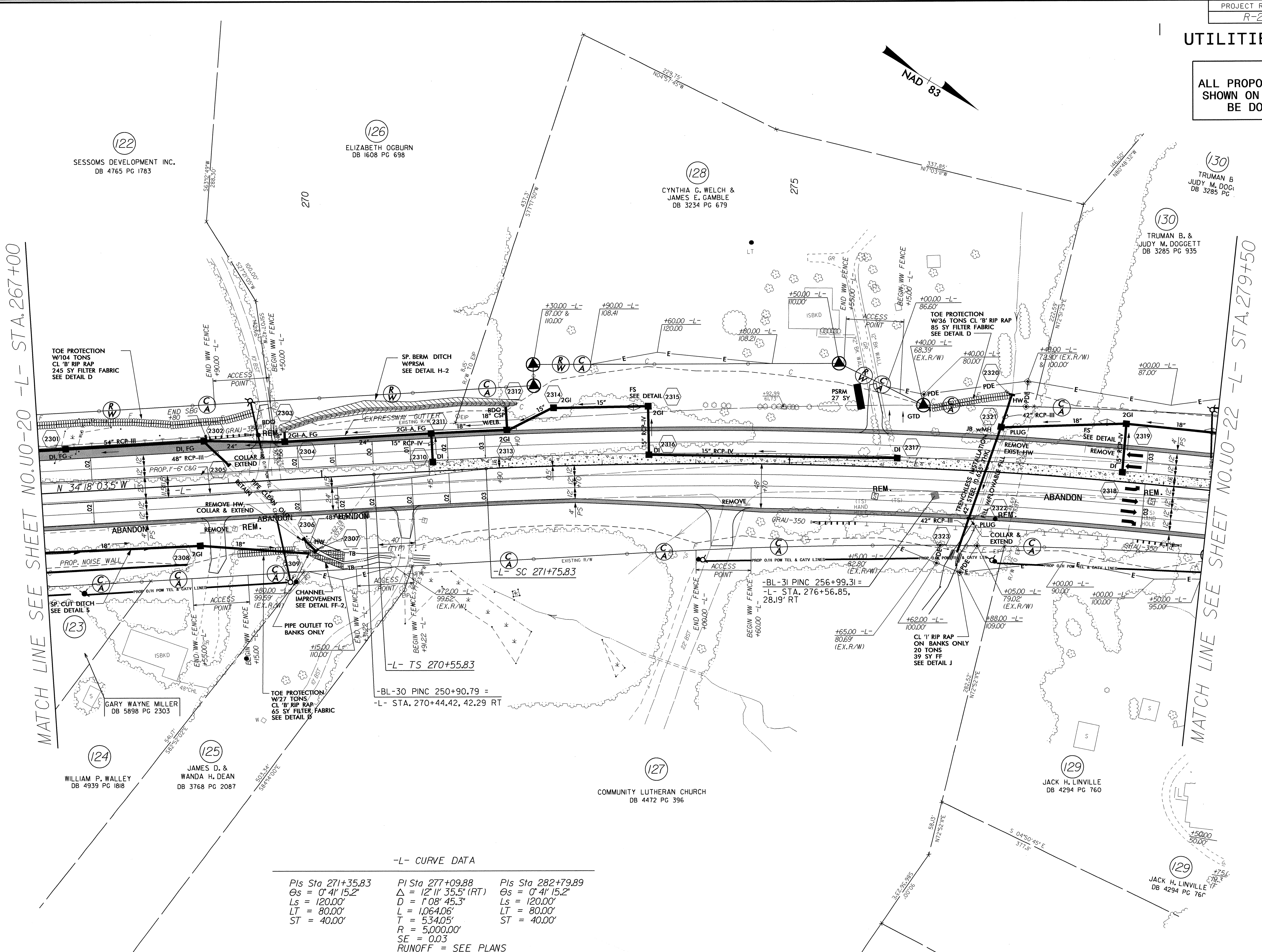
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UTILITIES BY OTHERS

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

MATCH LINE SEE SHEET NO.UO-20 -L- STA.267+00

MATCH LINE SEE SHEET NO.UO-22 -L- STA.279+50



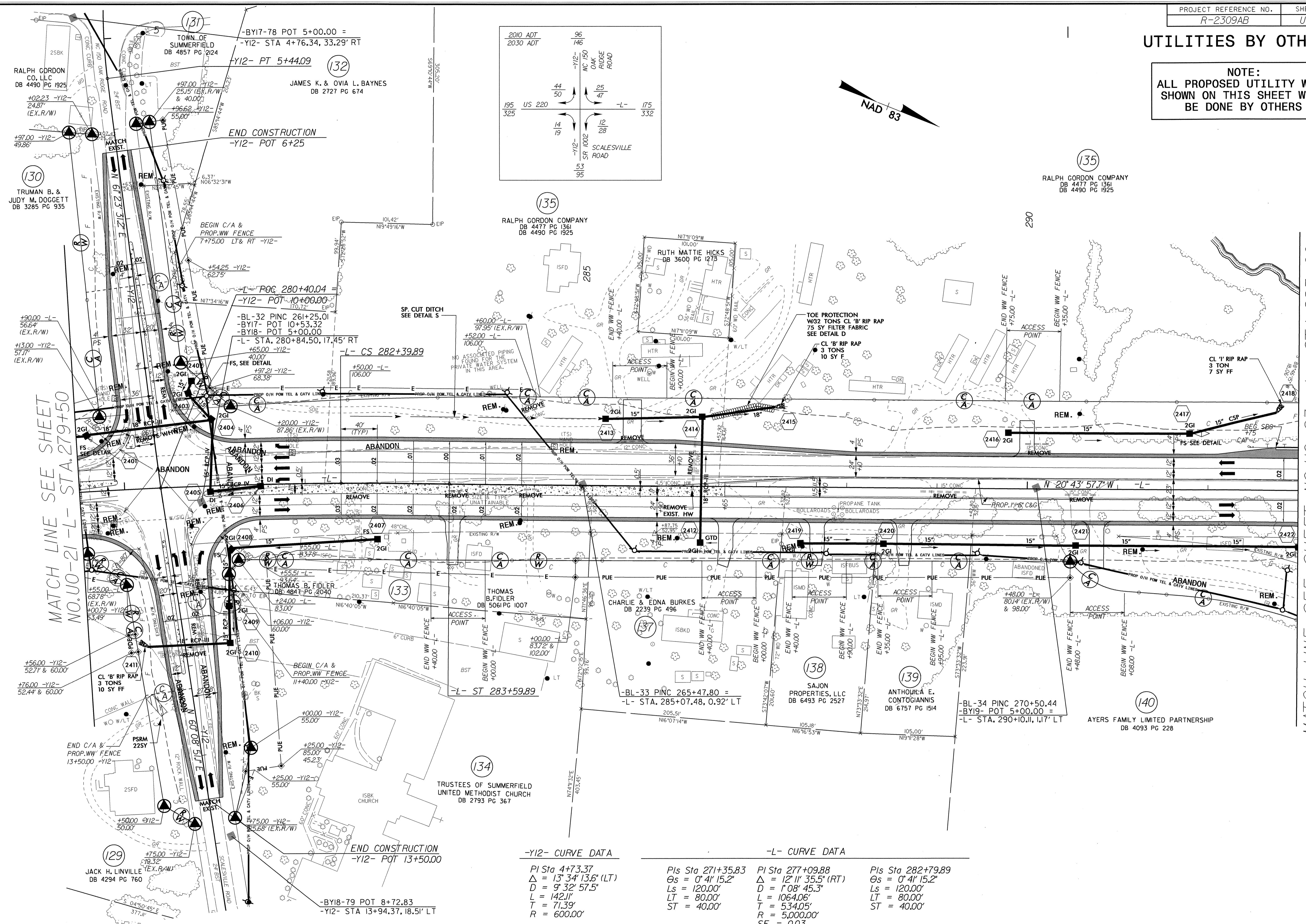
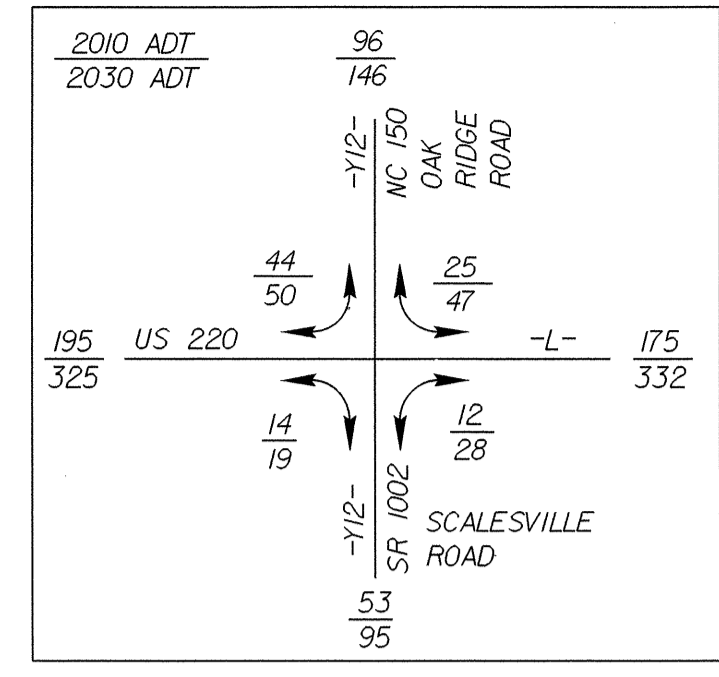
-L- CURVE DATA

Pls Sta 271+35.83	Pl Sta 277+09.88	Pls Sta 282+79.89
$\theta_s = 0^\circ 41' 15.2''$	$\Delta = 12^\circ 11' 35.5''$ (RT)	$\theta_s = 0^\circ 41' 15.2''$
$L_s = 120.00'$	$D = 1^\circ 08' 45.3''$	$L_s = 120.00'$
$LT = 80.00'$	$L = 1,064.06'$	$LT = 80.00'$
$ST = 40.00'$	$T = 534.05'$	$ST = 40.00'$
	$R = 5,000.00'$	
	$SE = 0.03$	
	$RUNOFF = SEE PLANS$	
	$V = 60$ MPH	

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 \$\$\$\$USERNAME\$\$\$\$

UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO. U0-21 -L- STA. 279+50

MATCH LINE SEE SHEET NO. U0-23 -L- STA. 293+00

-Y12- CURVE DATA

Pls Sta 4+73.37
 $\Delta = 13^{\circ} 34' 13.6"$ (LT)
 $D = 9^{\circ} 32' 57.5"$
 $L = 142.11'$
 $T = 71.39'$
 $R = 600.00'$

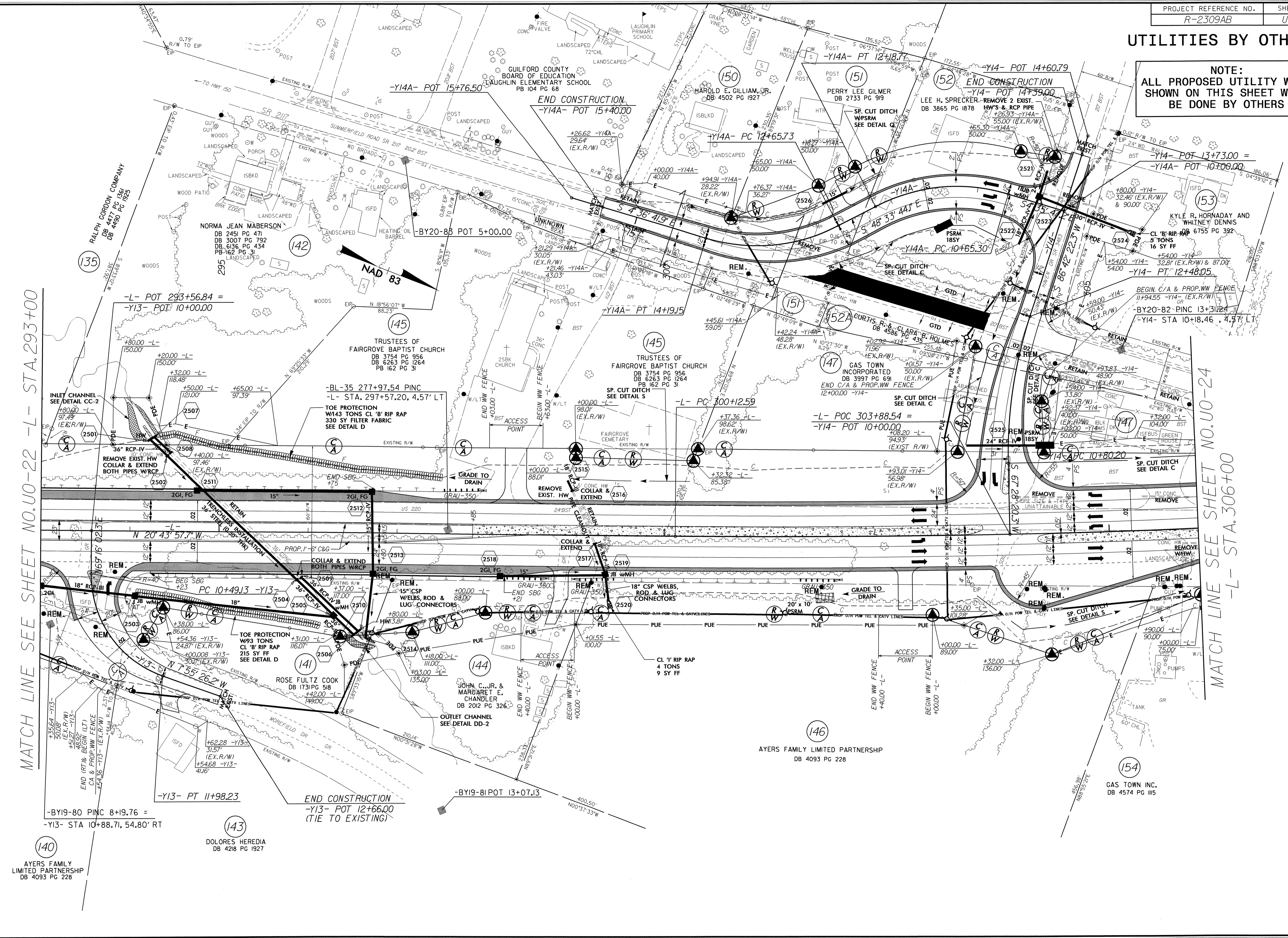
-L- CURVE DATA

Pls Sta 271+35.83 $\Delta = 0^{\circ} 41' 15.2"$ $D = 120.00'$ $L = 80.00'$ $ST = 40.00'$	Pls Sta 277+09.88 $\Delta = 12^{\circ} 11' 35.5"$ (RT) $D = 1^{\circ} 08' 45.3"$ $L = 1064.06'$ $T = 534.05'$ $R = 5000.00'$ $SE = 0.03$ $RUNOFF = \text{SEE PLANS}$ $V = 60 \text{ MPH}$	Pls Sta 282+79.89 $\Delta = 0^{\circ} 41' 15.2"$ $D = 120.00'$ $L = 80.00'$ $ST = 40.00'$
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5/14/99
24-AUG-2010 08:46 PLANS v:2309ab_U022-r.dwg psh24.dgn

UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET NO. U0-22 -L- STA. 293+00

MATCH LINE SEE SHEET NO. U0-24 -L- STA. 306+00

140 AYERS FAMILY LIMITED PARTNERSHIP DB 4093 PG 228

143 DOLORES HEREDIA DB 4218 PG 1927

-BY19-81 POT 13+07.13

146 AYERS FAMILY LIMITED PARTNERSHIP DB 4093 PG 228

154 GAS TOWN INC. DB 4574 PG 115

145 TRUSTEES OF FAIRGROVE BAPTIST CHURCH DB 3754 PG 956 DB 6263 PG 1264 PB 162 PG 31

145 TRUSTEES OF FAIRGROVE BAPTIST CHURCH DB 3754 PG 956 DB 6263 PG 1264 PB 162 PG 31

147 GAS TOWN INCORPORATED DB 3997 PG 691 END C/A & PROP. WW FENCE 12+00.00 -Y14-

153 KYLE R. HORNADAY AND WHITNEY DENNIS DB 6755 PG 392

5/14/99

24-AUG-2010 08:47 PLANS v-2309ab-UD23_r.dwg psh25.dgn

UTILITIES BY OTHERS

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

-L- CURVE DATA

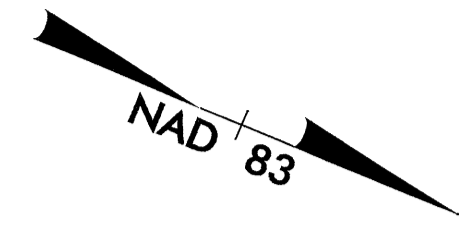
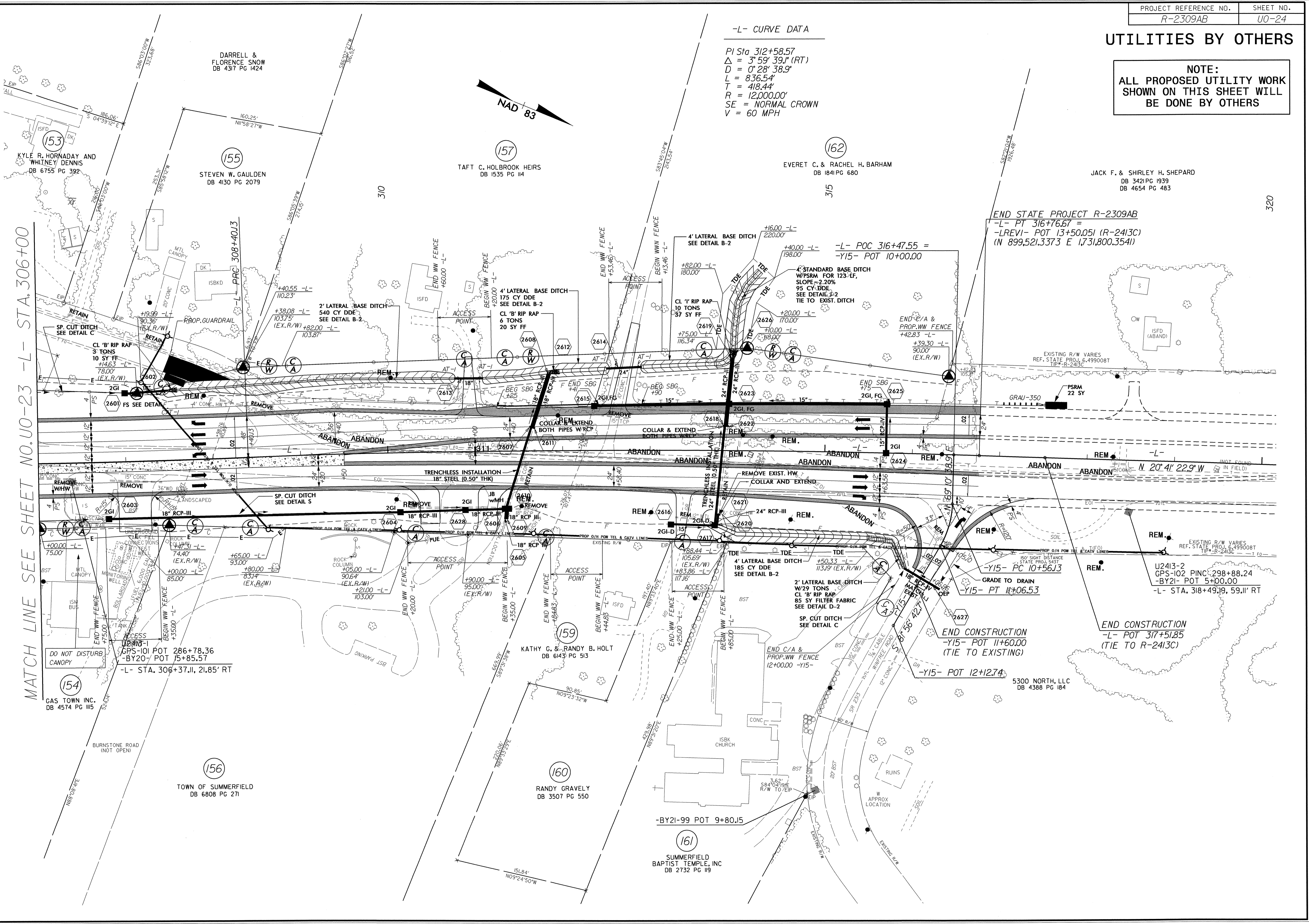
PI Sta 312+58.57
 $\Delta = 3^{\circ} 59' 39.1''$ (RT)
 $D = 0^{\circ} 28' 38.9''$
 $L = 836.54'$
 $T = 418.44'$
 $R = 12,000.00'$
 $SE = \text{NORMAL CROWN}$
 $V = 60 \text{ MPH}$

END STATE PROJECT R-2309AB
 -L- PT 316+76.67 =
 -LREVI- POT 13+50.051 (R-2413C)
 (N 899,521.3373 E 1,731,800.3541)

-Y15- PC 10+56.13
 -Y15- PT 11+06.53

END CONSTRUCTION
 -L- POT 317+51.85
 (TIE TO R-2413C)

MATCH LINE SEE SHEET NO. U0-23 -L- STA. 306+00



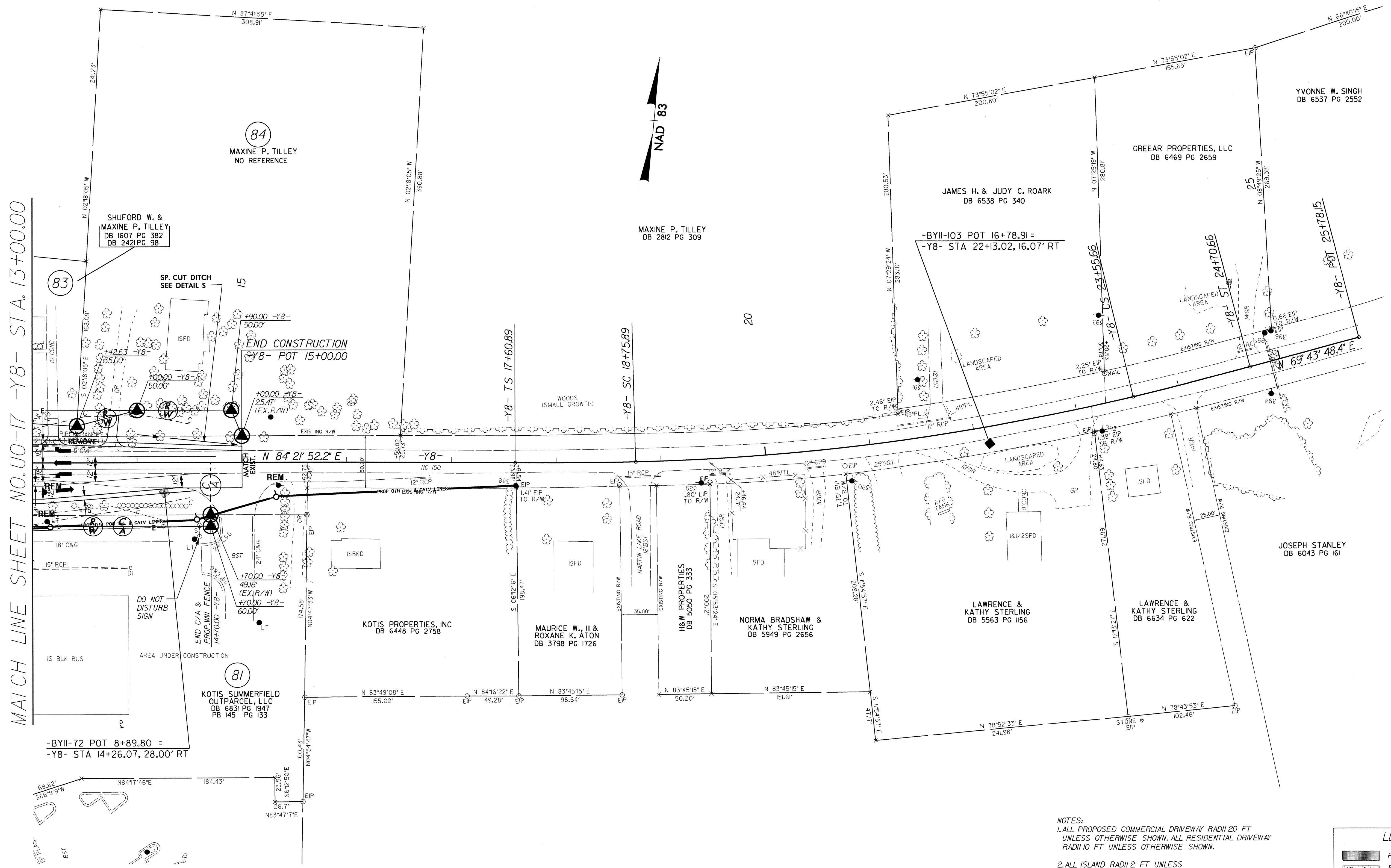
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 5/14/99

UTILITIES BY OTHERS

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

-Y8- CURVE DATA

Pls Sta 18+37.56	PI Sta 21+16.65	Pls Sta 23+94.00
$\Theta_s = 1^\circ 25' 56.6''$	$\Delta = 11^\circ 57' 06.1''$ (LT)	$\Theta_s = 1^\circ 25' 56.6''$
$L_s = 115.00'$	$D = 2^\circ 29' 28.0''$	$L_s = 115.00'$
$LT = 76.67'$	$L = 479.77'$	$LT = 76.67'$
$ST = 38.34'$	$T = 240.76'$	$ST = 38.34'$
	$R = 2,300.00'$	

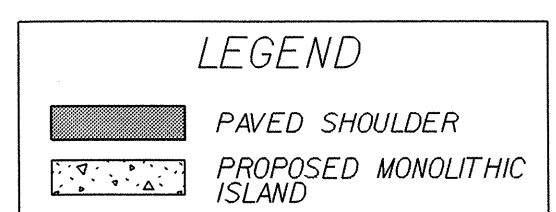


MATCH LINE SHEET NO. UO-17 -Y8- STA. 13+00.00

-BY11-72 POT 8+89.80 =
-Y8- STA 14+26.07, 28.00' RT

-BY11-103 POT 16+78.91 =
-Y8- STA 22+13.02, 16.07' RT

- NOTES:
1. ALL PROPOSED COMMERCIAL DRIVEWAY RADIUS 20 FT UNLESS OTHERWISE SHOWN. ALL RESIDENTIAL DRIVEWAY RADIUS 10 FT UNLESS OTHERWISE SHOWN.
 2. ALL ISLAND RADIUS 2 FT UNLESS OTHERWISE SHOWN.
 3. PROPOSED DRIVEWAY WIDTHS AT END OF RADIUS 16 FT UNLESS OTHERWISE SHOWN. TAPER DRIVEWAY TO EXISTING DRIVEWAY WIDTH.



FOR -Y8- INTERSECTION DETAIL SEE SHEET 2-S
FOR -Y8- PROFILE SEE SHEET 43

5/14/99
24-AUG-2010 08:49 P:\PLANS\2309AB\UO26.rdy_psh26.dgn
13:33:53 USER: JSTENSON