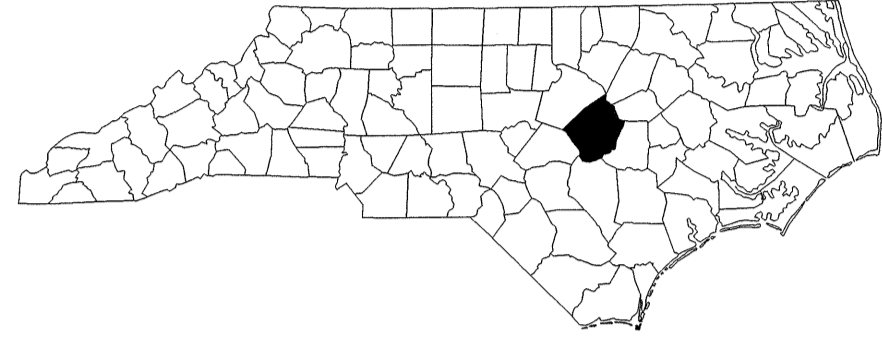


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

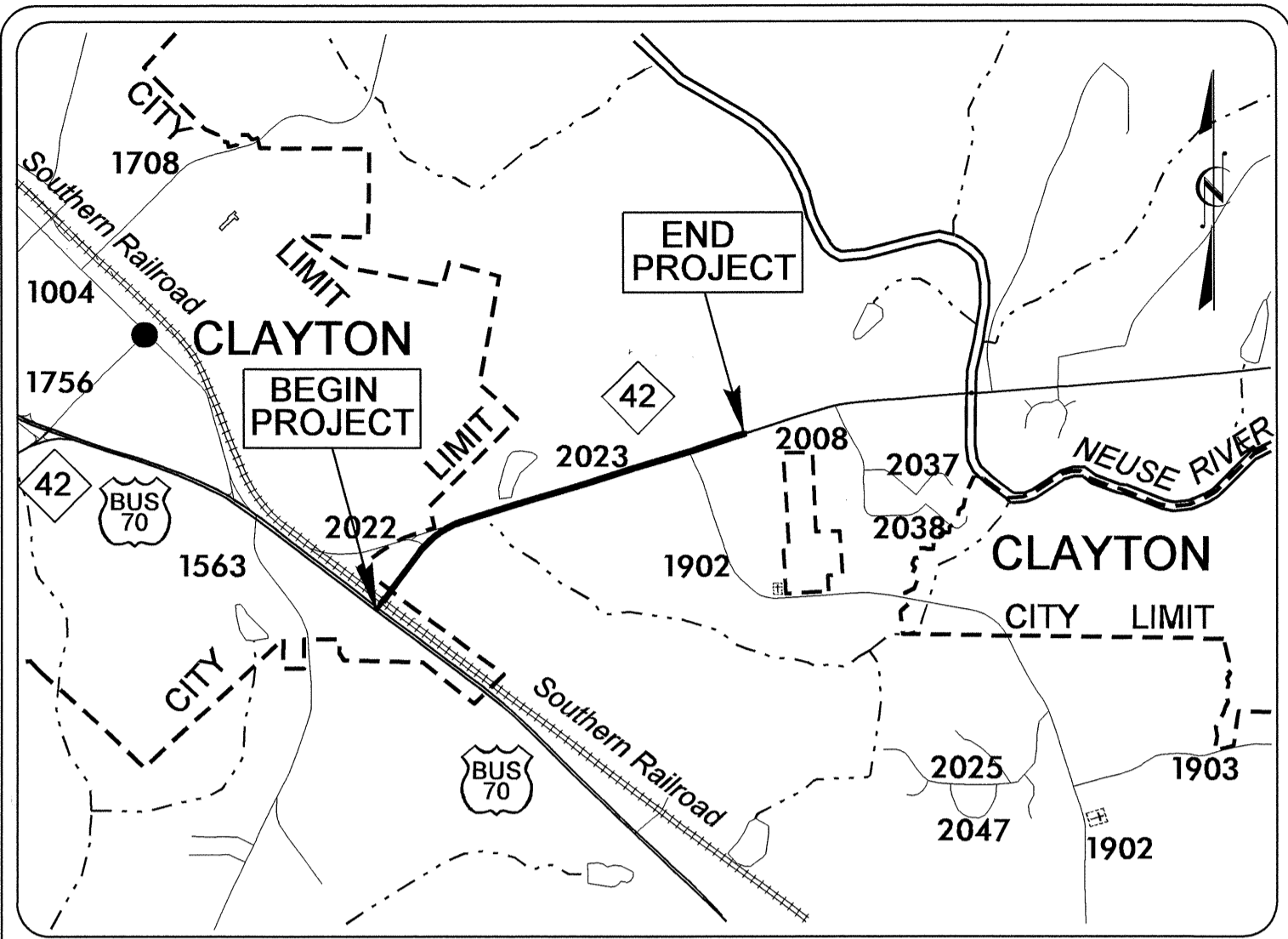
**UTILITY CONSTRUCTION PLANS
JOHNSTON COUNTY**

**LOCATION: NC 42 FROM US 70 IN CLAYTON TO
0.31 MI EAST OF SR 1902 (GLEN LAUREL RD)**

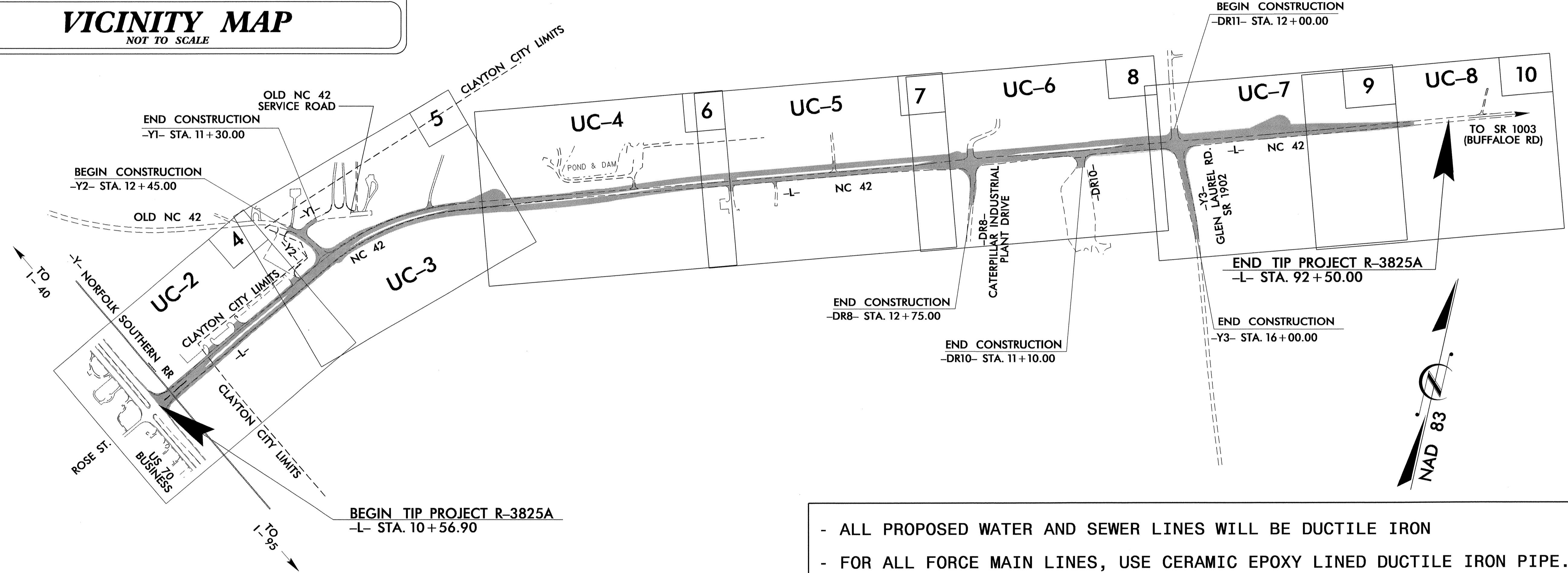
TYPE OF WORK: WATER AND SEWER



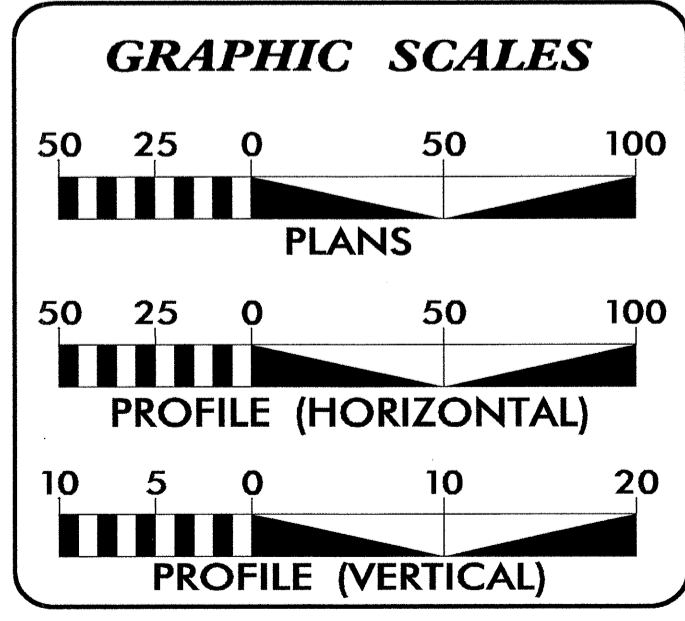
TIP PROJECT: R-3825A



VICINITY MAP
NOT TO SCALE



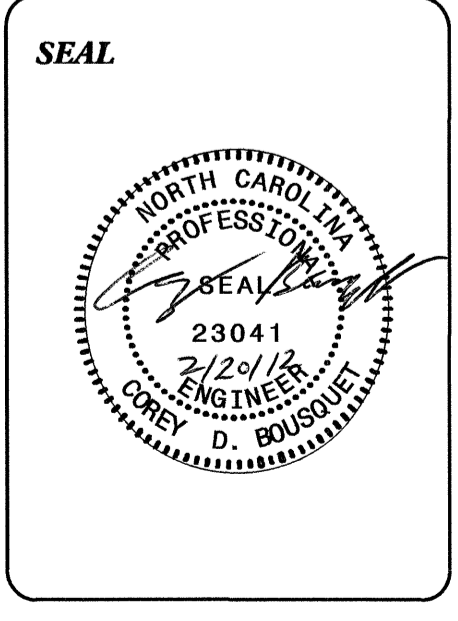
- ALL PROPOSED WATER AND SEWER LINES WILL BE DUCTILE IRON
 - FOR ALL FORCE MAIN LINES, USE CERAMIC EPOXY LINED DUCTILE IRON PIPE.



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-8	UTILITY CONSTRUCTION PLAN SHEETS
UC-9 THRU UC-10	DETAILS SHEETS

- WATER AND SEWER OWNERS ON PROJECT**
- Town Of Clayton (WATER)
 - Johnston County Public Utilities (WATER)
 - Town Of Clayton (SEWER)



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

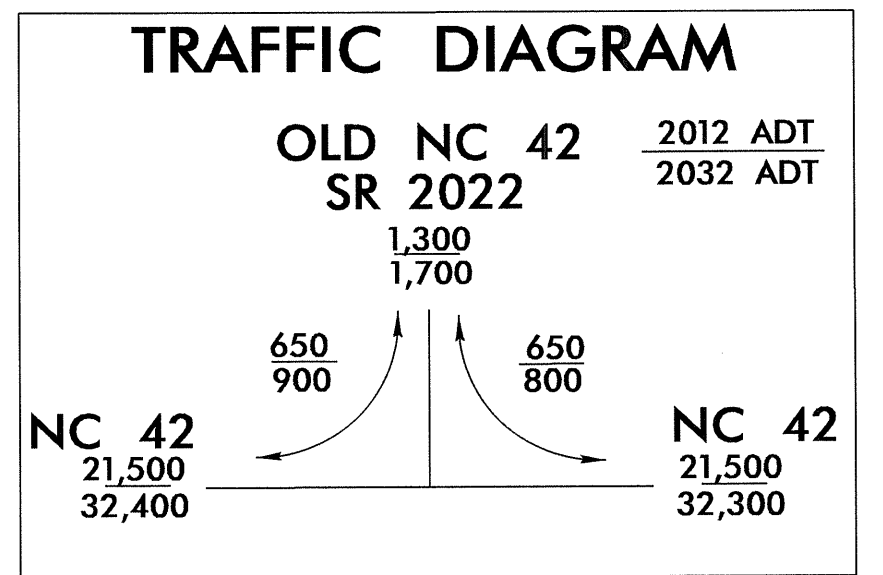
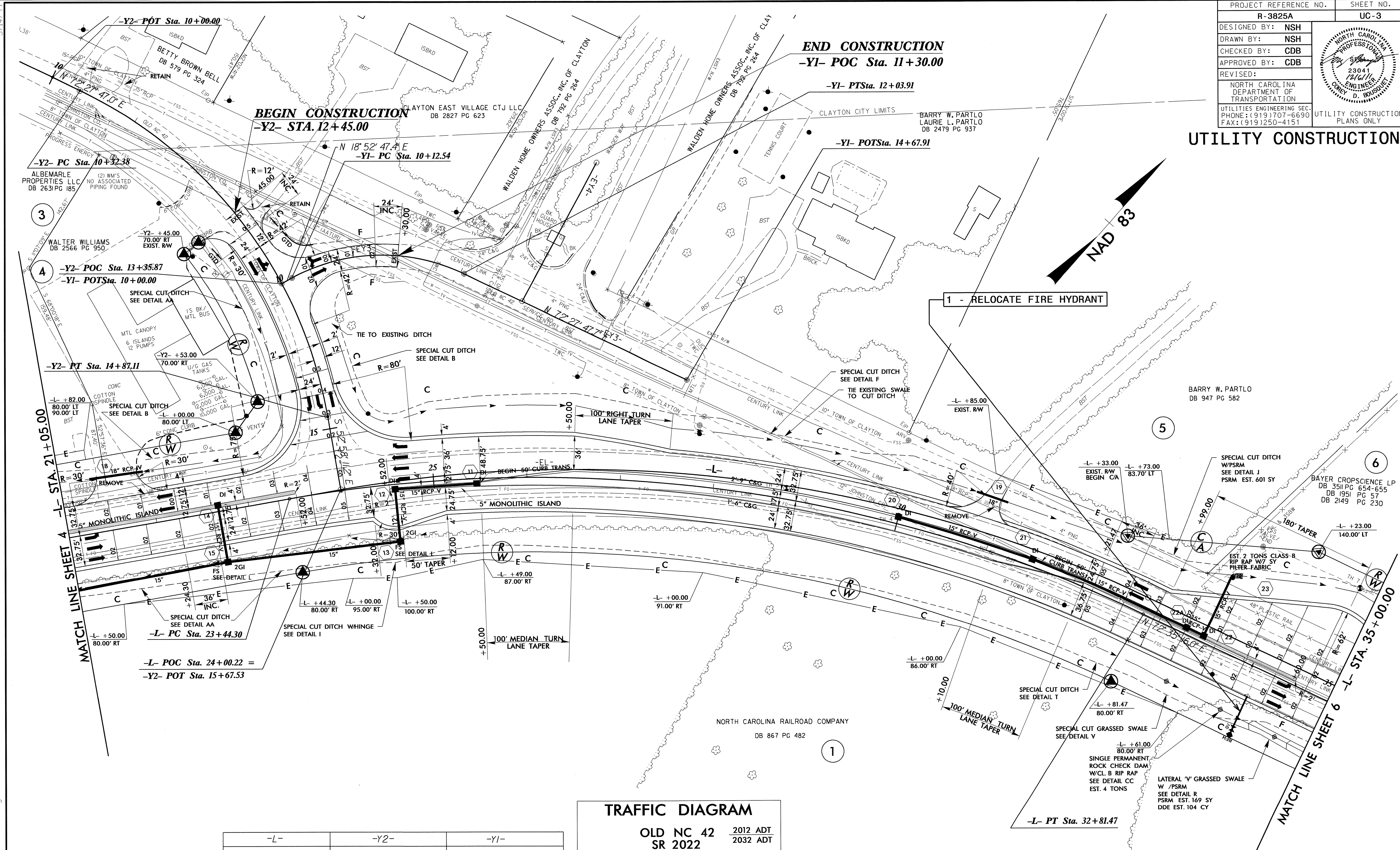
1591 MAIL SERVICES CENTER
 RALEIGH NC 27699-1591
 PHONE (919) 707-6690
 FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan UTILITIES PROJECT DESIGNER

20-FEB-2012 13:25
 C:\UTL\JOHNSTON\PROJECTS\R3825A\rdy_tsh_Ut_UC01.dgn
 \$\$\$USERNAME\$\$\$



UTILITY CONSTRUCTION



-L-	-Y2-	-Y1-
PI Sta 28+28.53	PI Sta 12+78.64	PI Sta 11+15.87
$\Delta = 35^\circ 33' 36.0''$ (RT)	$\Delta = 54^\circ 34' 01.8''$ (RT)	$\Delta = 53^\circ 35' 00.3''$ (RT)
D = 3' 47' 39.9"	D = 12' 00' 00.0"	D = 28' 00' 00.0"
L = 937.17'	L = 454.73'	L = 191.37'
T = 484.23'	T = 246.26'	T = 103.33'
R = 1,510.00'	R = 477.46'	R = 204.63'
SE = 0.05	SE = 0.05	SE = SEE PLANS
INC = 36'	INC = 24'	INC = 24'
RUNOFF = 180'	RUNOFF = SEE PLANS	RUNOFF = SEE PLANS

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE SEE SHEET 11

FOR -Y1- PROFILE SEE SHEET 14

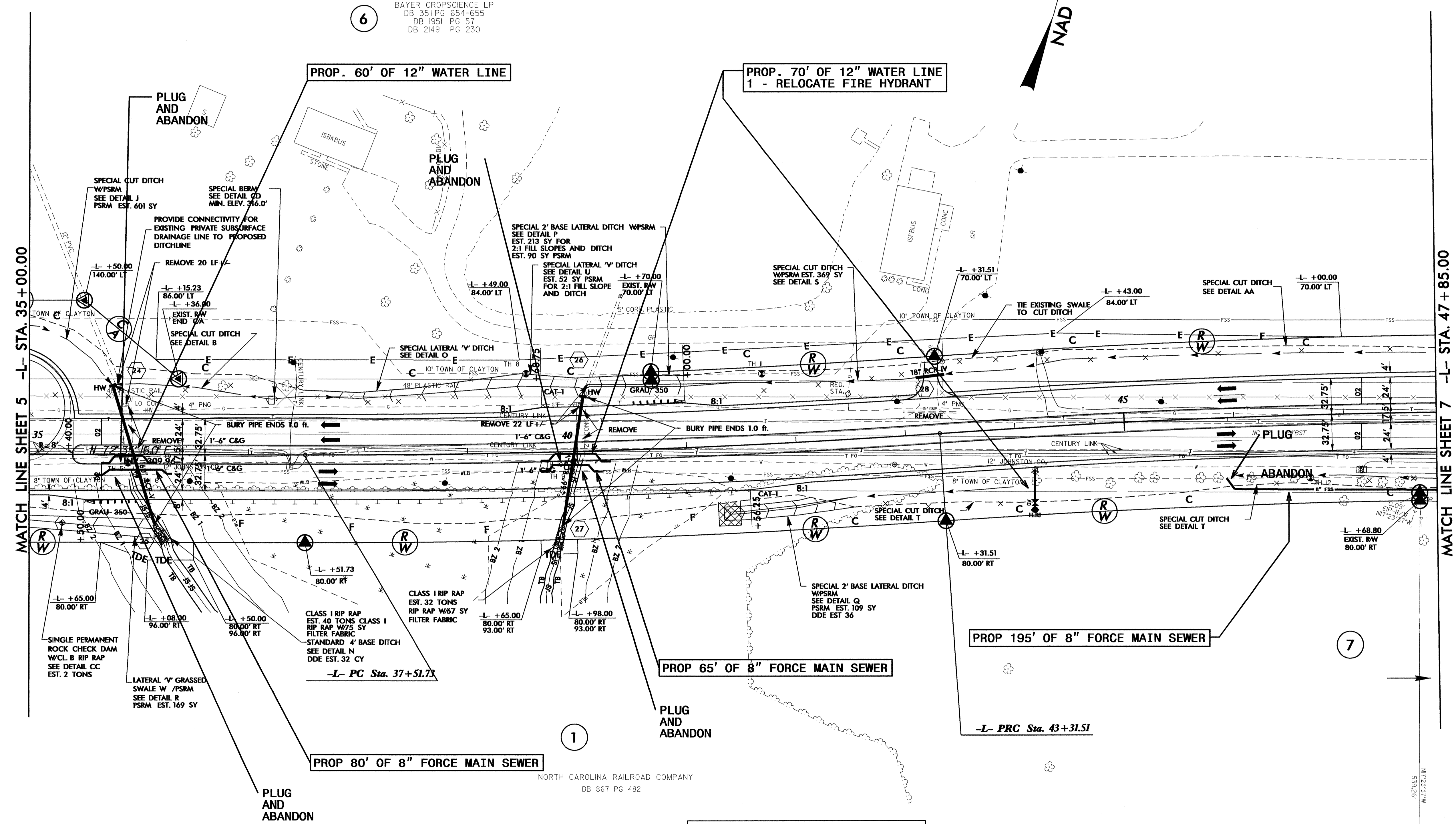
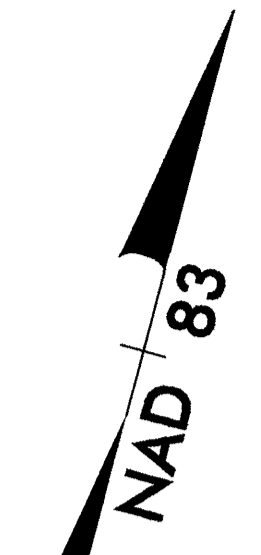
FOR -Y2- PROFILE SEE SHEET 14

5/14/99
 06-DEC-2011 4:59
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UTILITY CONSTRUCTION

5/14/99

6 BAYER CROSCIENCE LP
 DB 3511 PG 654-655
 DB 1951 PG 57
 DB 2149 PG 230



MATCH LINE SHEET 5 -L- STA. 35+00.00

MATCH LINE SHEET 7 -L- STA. 47+85.00

NORTH CAROLINA RAILROAD COMPANY
 DB 867 PG 482

-L-	
PI Sta 40+41.74	PI Sta 46+21.53
$\Delta = 4' 09'' 08.6''$ (LT)	$\Delta = 4' 09'' 08.6''$ (RT)
$D = 0' 42'' 58.3''$	$D = 0' 42'' 58.3''$
$L = 579.78'$	$L = 579.78'$
$T = 290.02'$	$T = 290.02'$
$R = 8,000.00'$	$R = 8,000.00'$
SE = NC	SE = NC

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

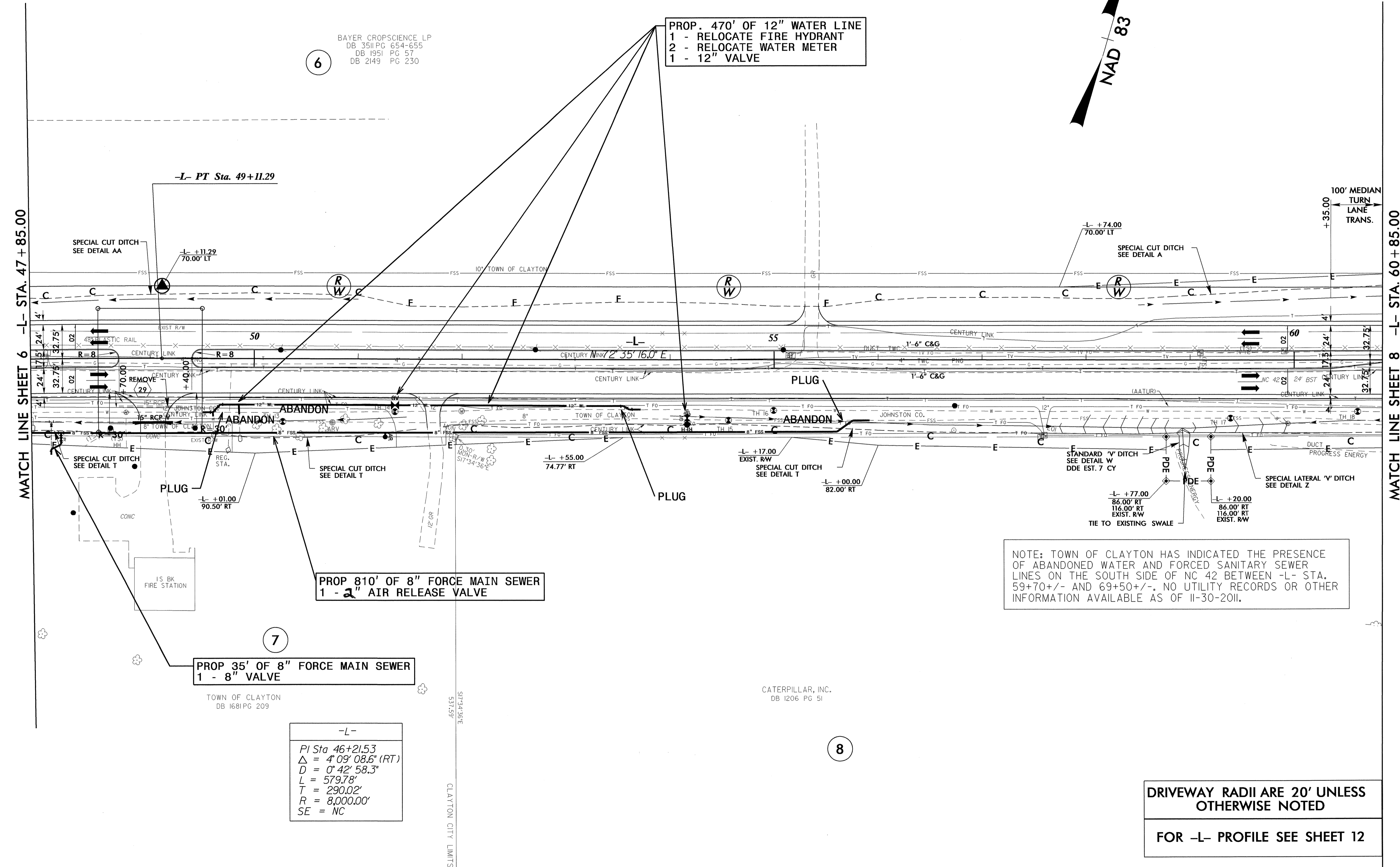
FOR -L- PROFILE SEE SHEETS 11 & 12

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 \$\$\$\$SYTIME\$\$\$\$

9/2/06
 11/23/07
 CLAYTON CITY LIMITS

PROJECT REFERENCE NO.	SHEET NO.
R-3825A	UC-5
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



6
 BAYER CROPSCIENCE LP
 DB 351 PG 654-655
 DB 1951 PG 57
 DB 2149 PG 230

PROP. 470' OF 12" WATER LINE
 1 - RELOCATE FIRE HYDRANT
 2 - RELOCATE WATER METER
 1 - 12" VALVE

MATCH LINE SHEET 6 -L- STA. 47 + 85.00

MATCH LINE SHEET 8 -L- STA. 60 + 85.00

NOTE: TOWN OF CLAYTON HAS INDICATED THE PRESENCE OF ABANDONED WATER AND FORCED SANITARY SEWER LINES ON THE SOUTH SIDE OF -L- STA. 59+70+/- AND 69+50+/- . NO UTILITY RECORDS OR OTHER INFORMATION AVAILABLE AS OF 11-30-2011.

7
 PROP 810' OF 8" FORCE MAIN SEWER
 1 - 2" AIR RELEASE VALVE

PROP 35' OF 8" FORCE MAIN SEWER
 1 - 8" VALVE

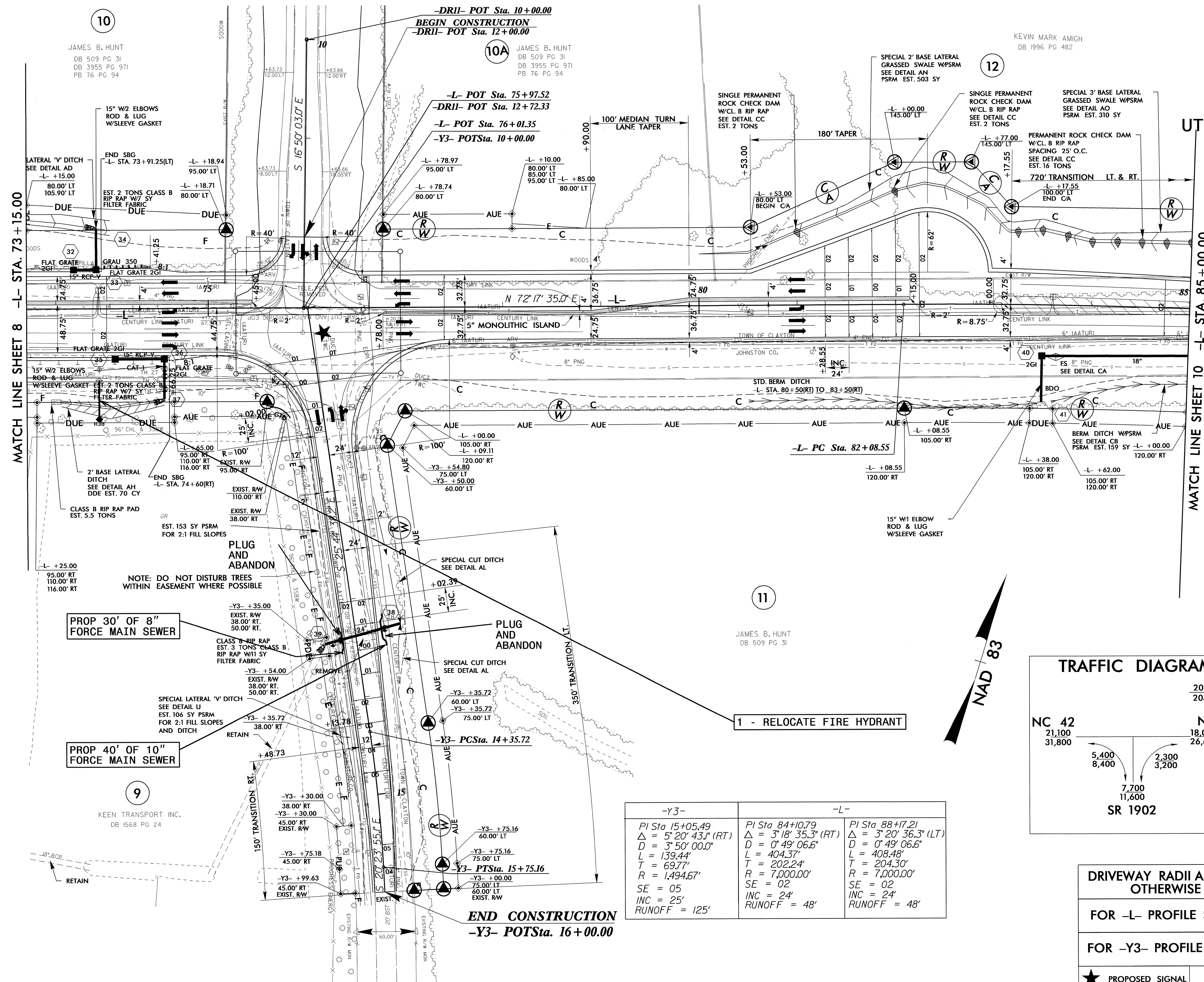
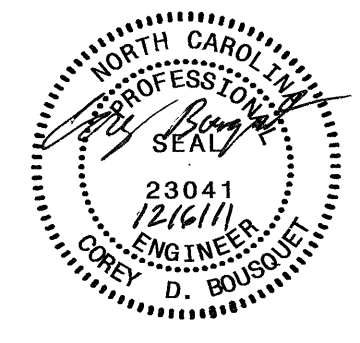
TOWN OF CLAYTON
 DB 1681 PG 209

CATERPILLAR, INC.
 DB 1206 PG 51

-L-
 PI Sta 46+215.3
 $\Delta = 4^{\circ}09'08.6" (RT)$
 $D = 0^{\circ}42'58.3"$
 $L = 579.78'$
 $T = 290.02'$
 $R = 8,000.00'$
 $SE = NC$

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED
 FOR -L- PROFILE SEE SHEET 12

5/14/99
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 5179426E
 537.59
 CLAYTON CITY LIMITS



MATCH LINE SHEET 8 -L- STA. 73+15.00

MATCH LINE SHEET 10 -L- STA. 85+00.00

10
 JAMES B. HUNT
 DB 509 PG 31
 DB 3955 PG 971
 PB 76 PG 94

10A
 JAMES B. HUNT
 DB 509 PG 31
 DB 3955 PG 971
 PB 76 PG 94

12
 KEVIN MARK AMICH
 DB 1996 PG 482

11
 JAMES B. HUNT
 DB 509 PG 31

PROP 30' OF 8" FORCE MAIN SEWER

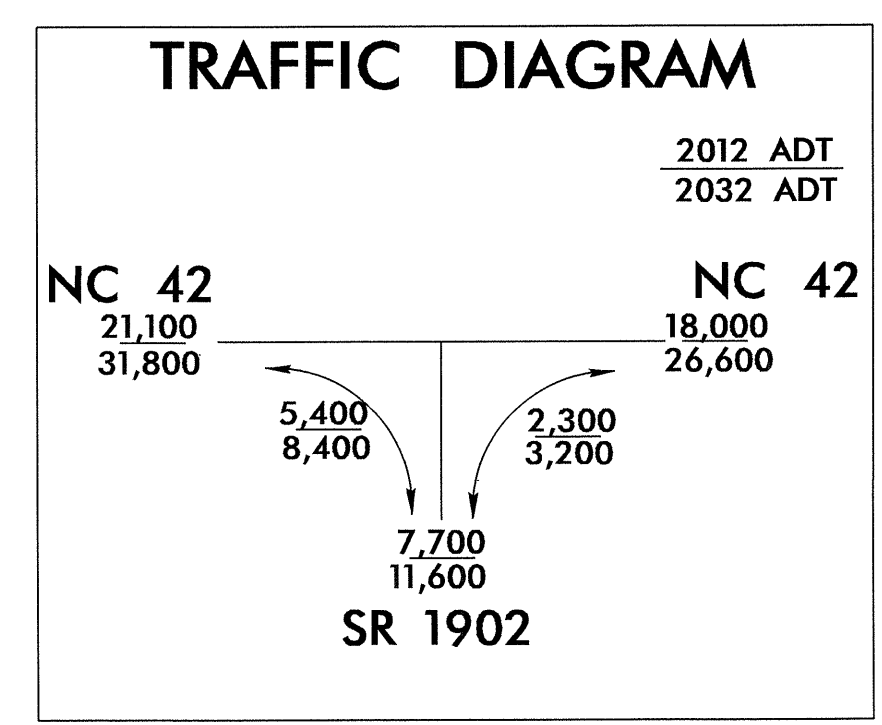
PROP 40' OF 10" FORCE MAIN SEWER

NOTE: DO NOT DISTURB TREES WITHIN EASEMENT WHERE POSSIBLE

9
 KEEN TRANSPORT INC.
 DB 1568 PG 24

END CONSTRUCTION
 -Y3- POT Sta. 16+00.00

-Y3-	-L-	-L-
PI Sta 15+05.49	PI Sta 84+10.79	PI Sta 88+17.21
$\Delta = 5' 20' 43.1''$ (RT)	$\Delta = 3' 18' 35.3''$ (RT)	$\Delta = 3' 20' 36.3''$ (LT)
$D = 3' 50' 00.0''$	$D = 0' 49' 06.6''$	$D = 0' 49' 06.6''$
$L = 139.44'$	$L = 404.37'$	$L = 408.48'$
$T = 69.77'$	$T = 202.24'$	$T = 204.30'$
$R = 1,494.67'$	$R = 7,000.00'$	$R = 7,000.00'$
SE = 05	SE = 02	SE = 02
INC = 25'	INC = 24'	INC = 24'
RUNOFF = 125'	RUNOFF = 48'	RUNOFF = 48'




DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE SEE SHEET 13

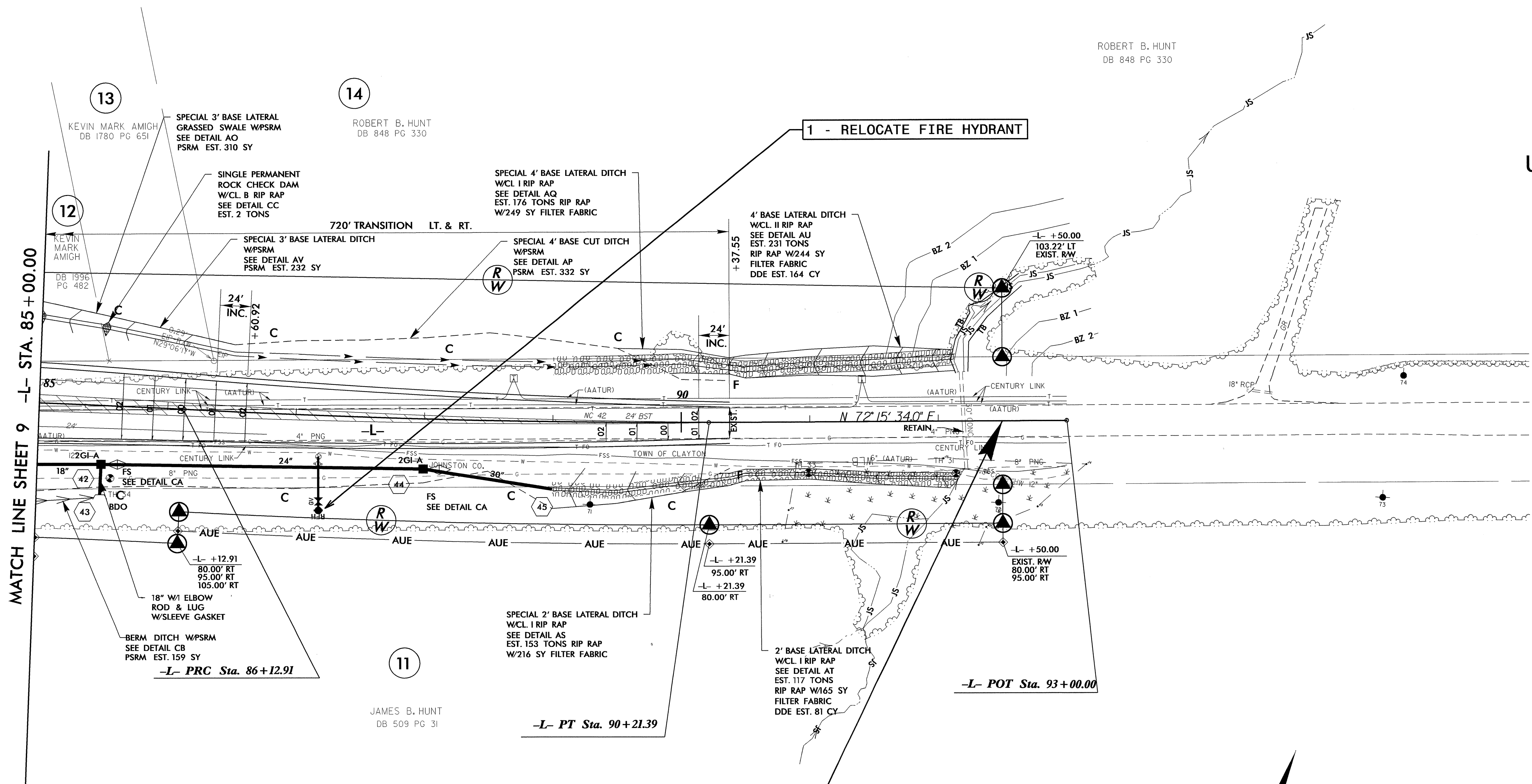
FOR -Y3- PROFILE SEE SHEET 14

★ PROPOSED SIGNAL

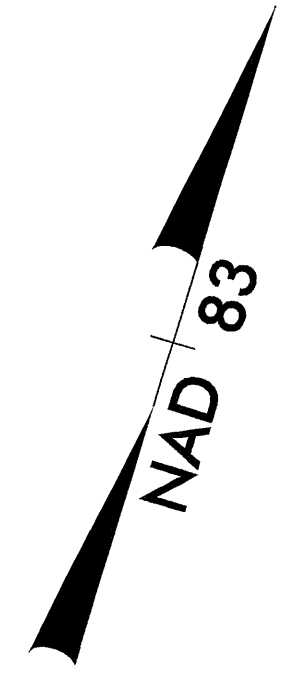
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PROJECT REFERENCE NO.	SHEET NO.
R-3825A	UC-8
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



END TIP PROJECT R-3825A
-L- POT STA. 92+50.00



DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE SEE SHEET 13

5/14/99

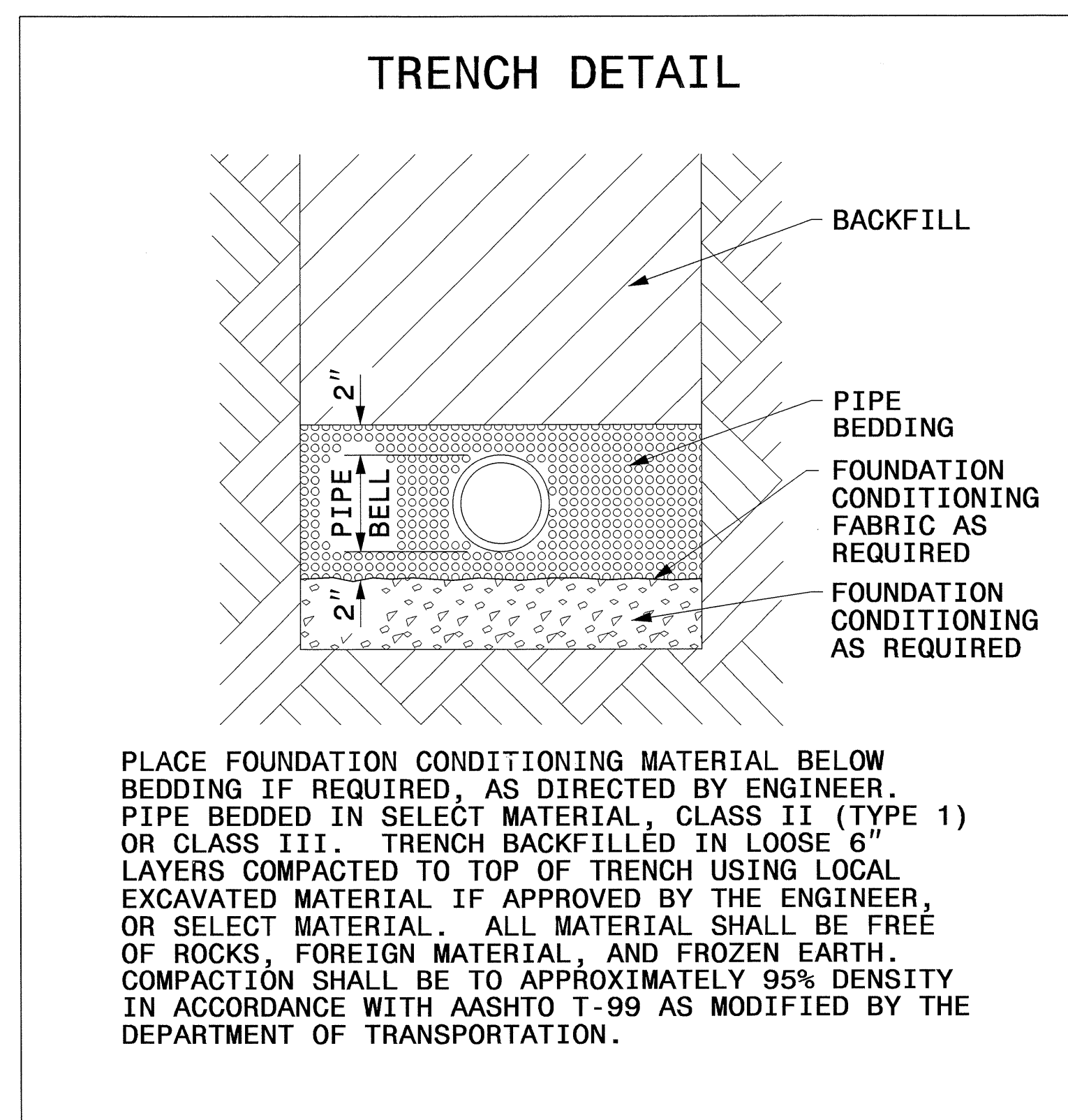
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3825A	UC-9
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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		



ROADWAY STANDARD DRAWINGS

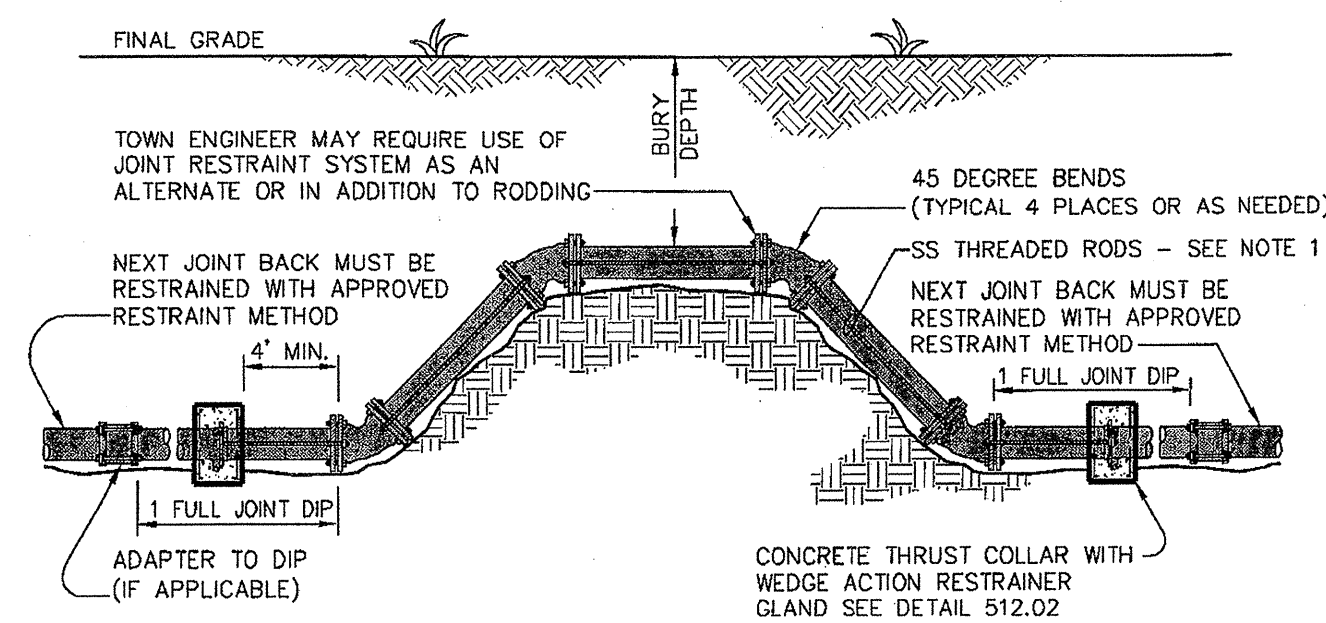
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1515.01	WATER METER
1515.02	FIRE HYDRANT

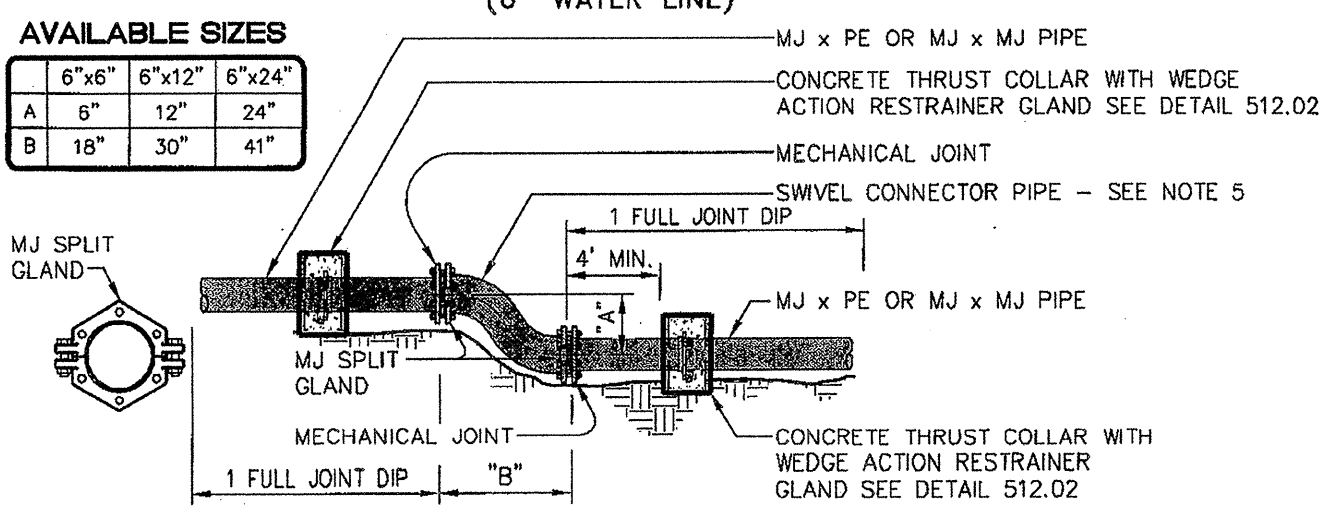
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5/14/09

Details Provided by APPIAN Consulting Engineers - www.appianengineers.com 08/06/2010 - 10:42:09 AM



ALTERNATE SWIVEL CONNECTOR (6" WATER LINE)



- NOTES:**
1. See Tie Rod Anchors Datum Chart, detail 512.06 for quantity & sizing of rodding.
 2. The bypass is to be assembled above ground first.
 3. Record all as-built lengths using the center lines of the pipes or bends as reference points.
 4. Adapters vary in type according to the material of the existing water main.
 5. Compact ductile iron (350 p.s.i.) fire hydrant offset connector pipe (AWWA C-110-ANSI A21.4) equal to or exceeding "GRADE LOK" as manufactured by: Assured Flow Sales, Inc., 1-(800)-388-0678

TOWN of CLAYTON
USE WITH THE TOWN OF CLAYTON STANDARD SPECIFICATIONS ONLY

VERTICAL BEND, RODDING, and BLOCKING DETAIL

SCALE: Not To Scale DETAIL # 512.04
REVISION DATE: July, 2010 SHEET # 1 of 1

Details Provided by APPIAN Consulting Engineers - www.appianengineers.com 08/06/2010 - 10:41:56 AM

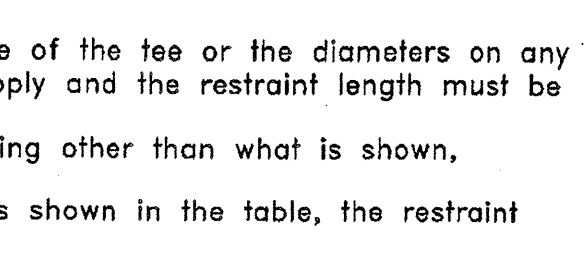
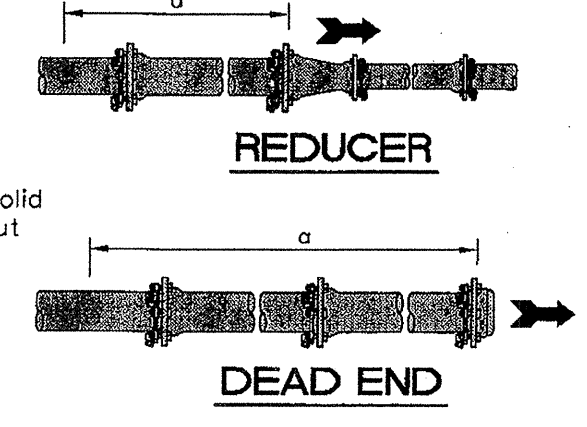
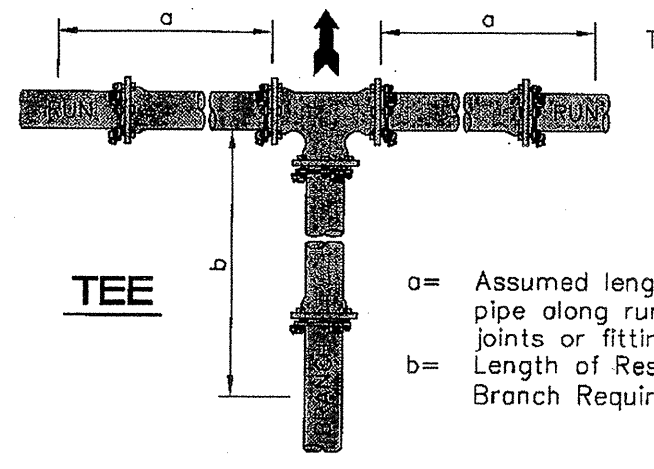
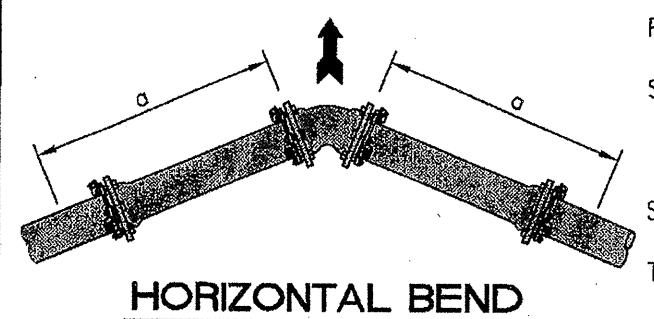
Restraint Length Chart (for Fittings)

Nominal Size	Tee				Horizontal Bend			Reducer		Dead End					
	a	b (branch)			a	a	a	Smaller Line Size	Restraint Length	a					
6"	9'	1'	14'	-	2'	4'	7'	17'	4'	19'	36'				
8"	9'	1'	7'	9'	-	3'	5'	9'	22'	6'	20'	47'			
12"	9'	1'	1'	12'	43'	-	3'	6'	13'	30'	8'	35'	65'		
16"	9'	1'	1'	1'	33'	61'	-	4'	8'	16'	39'	12'	36'	84'	
24"	9'	1'	1'	1'	13'	41'	94'	-	6'	11'	23'	55'	16'	64'	118'

See Note 1 (under Tee), See Note 2 (under Reducer)

Table Design Assumptions

- Restrained pipe: DIP
- Soil Type: SM, CL (restraint lengths would be less if CL were to be computed)
- Safety Factor: 1.5:1 (covers most installations)
- Trench Bury: Pipe bedding in 4" of loose soil with backfill lightly consolidated to top of pipe.
- Bury Depth: 3 ft.
- Test Pressure: 150 psi



- NOTES:**
1. If the length of the solid pipe on either side of the tee or the diameters on any leg of the tee varies, this table does not apply and the restraint length must be calculated.
 2. If the diameter of the smaller pipe is anything other than what is shown, restraint length must be calculated.
 3. If any of the assumptions vary from what is shown in the table, the restraint length must be calculated.

TOWN of CLAYTON
USE WITH THE TOWN OF CLAYTON STANDARD SPECIFICATIONS ONLY

RESTRAINT LENGTH CHART (FOR FITTINGS)

SCALE: Not To Scale DETAIL # 512.05
REVISION DATE: July, 2010 SHEET # 1 of 1

Details Provided by APPIAN Consulting Engineers - www.appianengineers.com 08/06/2010 - 10:41:48 AM

TIE ROD ANCHORS DATUM

PIPE SIZE (INCHES)	ROD DIAMETER	NUMBER OF SS RODS REQUIRED
TEST PRESSURE = 150 PSI		
6	3/4"	2
8	3/4"	2
10	3/4"	2
12	3/4"	4
16	3/4"	6
20	3/4"	8
24	3/4"	8
30	1"	10
36"	1"	12
TEST PRESSURE = 200 PSI		
6	3/4"	2
8	3/4"	2
10	3/4"	4
12	3/4"	6
16	3/4"	8
20	3/4"	12
24	3/4"	10
30	1"	14
36"	1"	16

316 GRADE STAINLESS STEEL (ALL THREAD) RODS

TOWN of CLAYTON
USE WITH THE TOWN OF CLAYTON STANDARD SPECIFICATIONS ONLY

TIE ROD ANCHORS DATUM CHART

SCALE: Not To Scale DETAIL # 512.06
REVISION DATE: July, 2010 SHEET # 1 of 1

PROJECT REFERENCE NO. **R-3825A** SHEET NO. **UC-10**

DESIGNED BY: **NSH**
DRAWN BY: **NSH**
CHECKED BY: **CDB**
APPROVED BY: **CDB**

REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

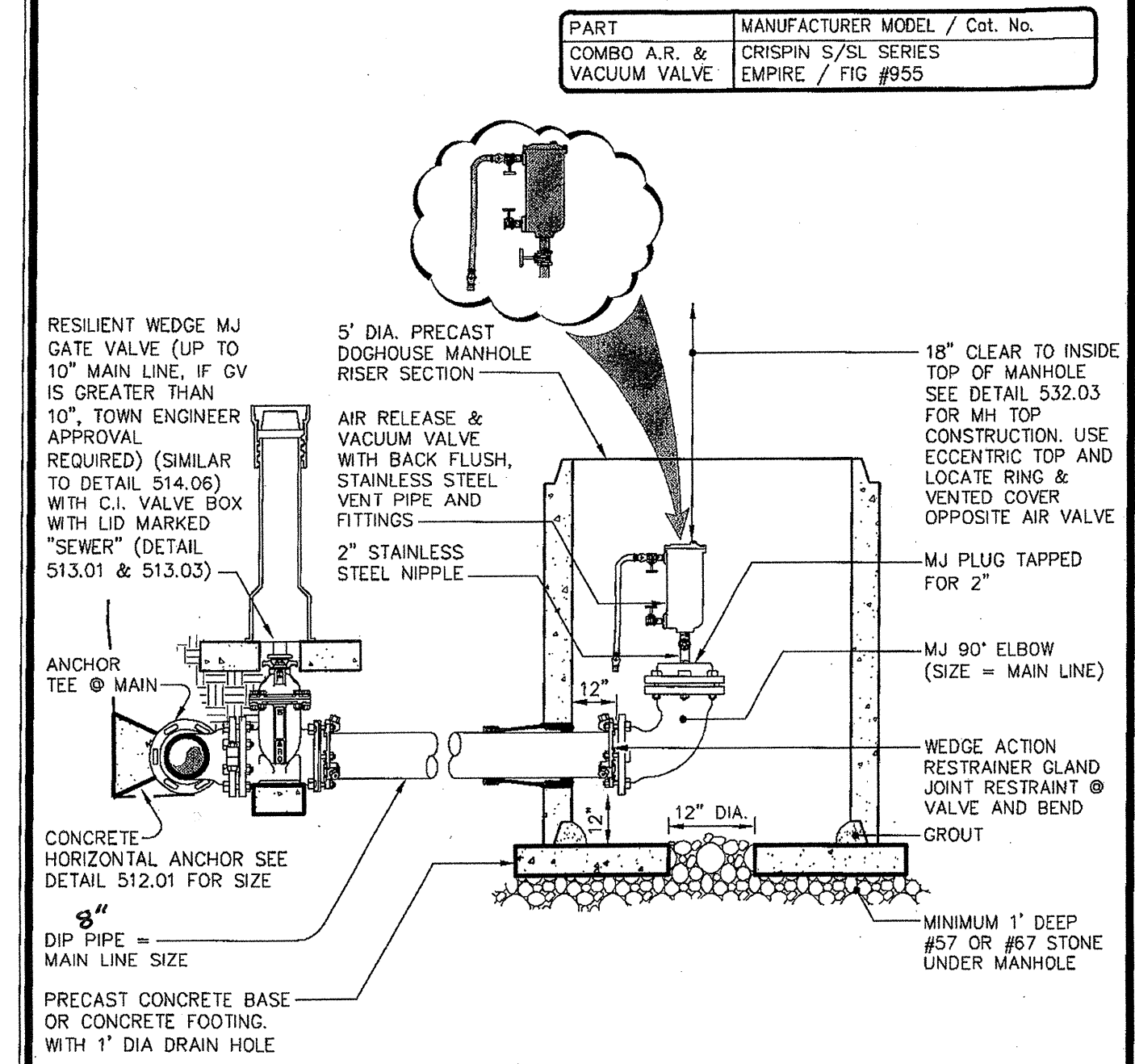
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

UTILITY CONSTRUCTION PLANS ONLY

PROFESSIONAL ENGINEER
23041
LARRY D. BOUDREAU

UTILITY CONSTRUCTION

Details Provided by APPIAN Consulting Engineers - www.appianengineers.com 11/17/2010 - 5:10:39 PM



- NOTES:**
1. Provide a minimum of 3'-6" cover over sewer line.
 2. All pipe fittings to be stainless steel.
 3. Ensure 12" minimum clearance between manhole wall and floor to MJ elbow.
 4. Ensure 18" minimum clearance between manhole top to air valve.
 5. Manhole penetration to be precast or cored and booted.

TOWN of CLAYTON
USE WITH THE TOWN OF CLAYTON STANDARD SPECIFICATIONS ONLY

FORCE MAIN AIR / PRESSURE RELEASE VALVE IN MANHOLE

SCALE: Not To Scale DETAIL # 534.06
REVISION DATE: July, 2010 SHEET # 1 of 1

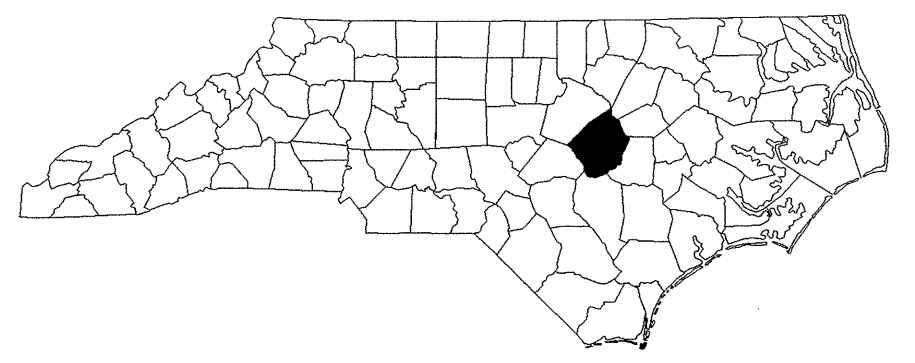
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

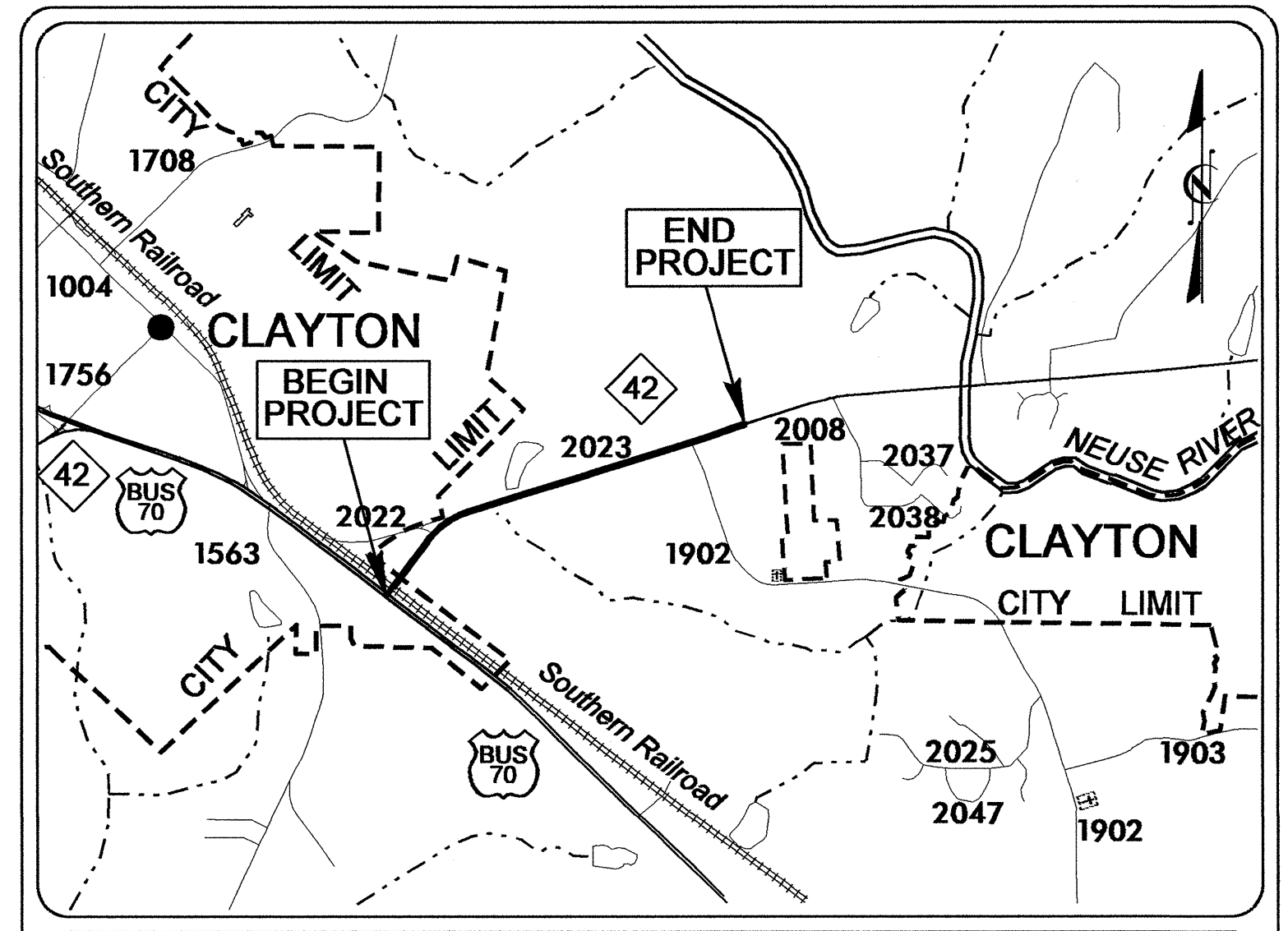
**UTILITIES BY OTHERS PLANS
JOHNSTON COUNTY**

**LOCATION: NC 42 FROM US 70 IN CLAYTON TO
0.31 MI EAST OF SR 1902 (GLEN LAUREL RD)**

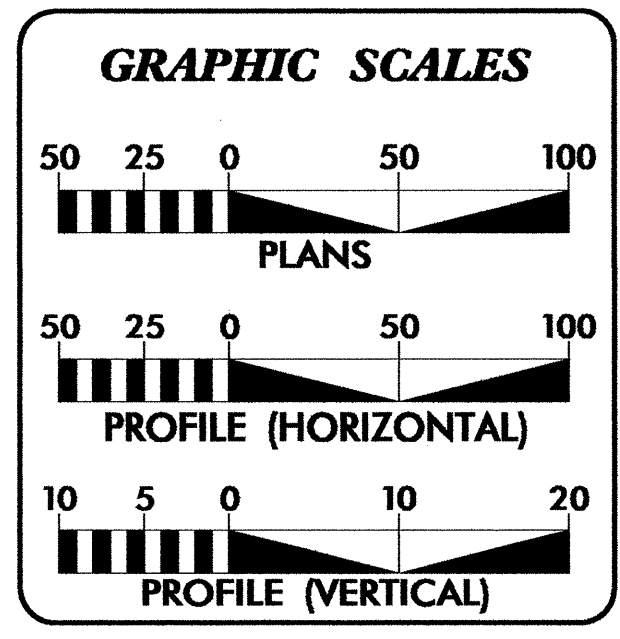
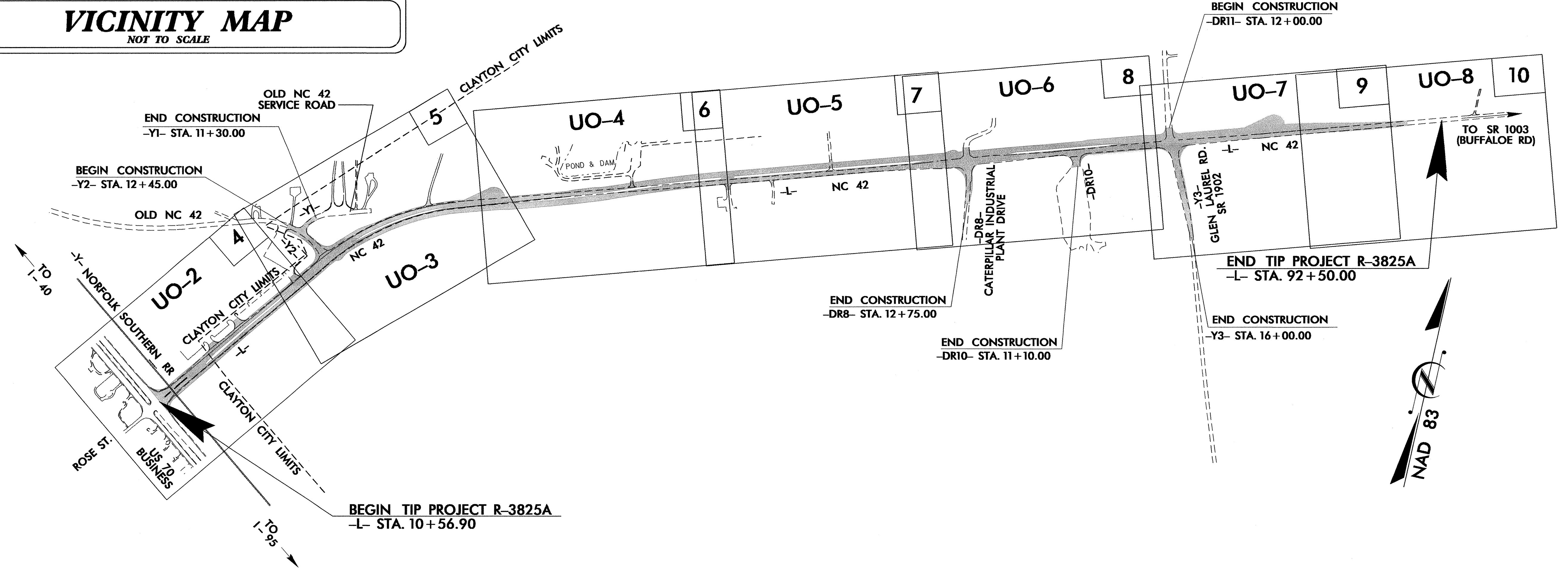
TYPE OF WORK: UTILITIES RELOCATION



TIP PROJECT: R-3825A



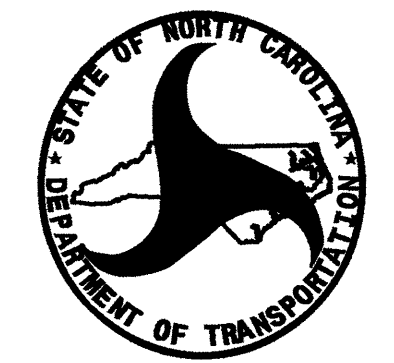
VICINITY MAP
NOT TO SCALE



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO- 8	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT**
- (1) Progress Energy (Power)
 - (2) Town of Clayton (Power, Water and Sewer)
 - (3) Century Link (Telephone)
 - (4) Time Warner Cable (CATV)
 - (5) Piedmont Natural Gas (Gas)



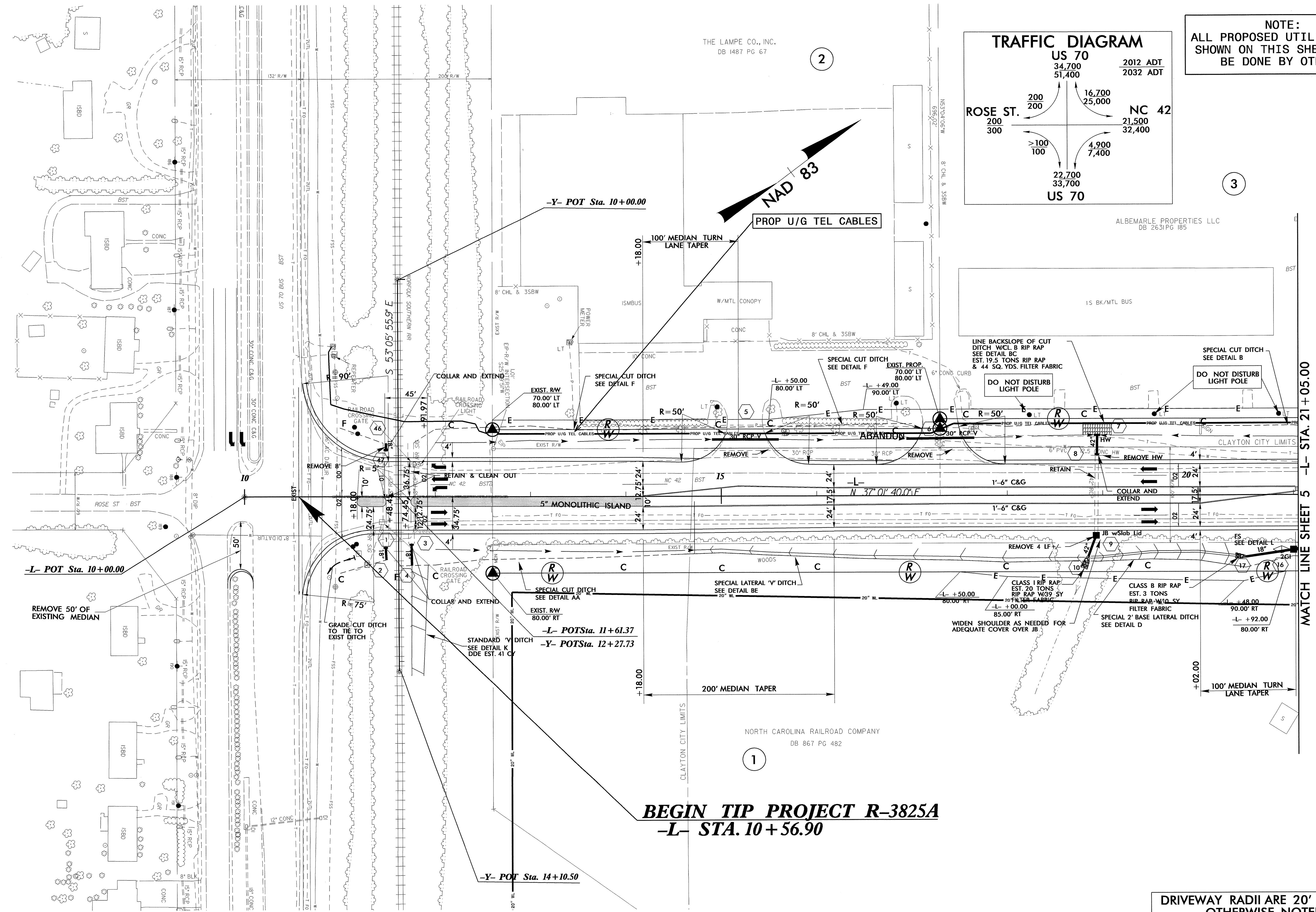
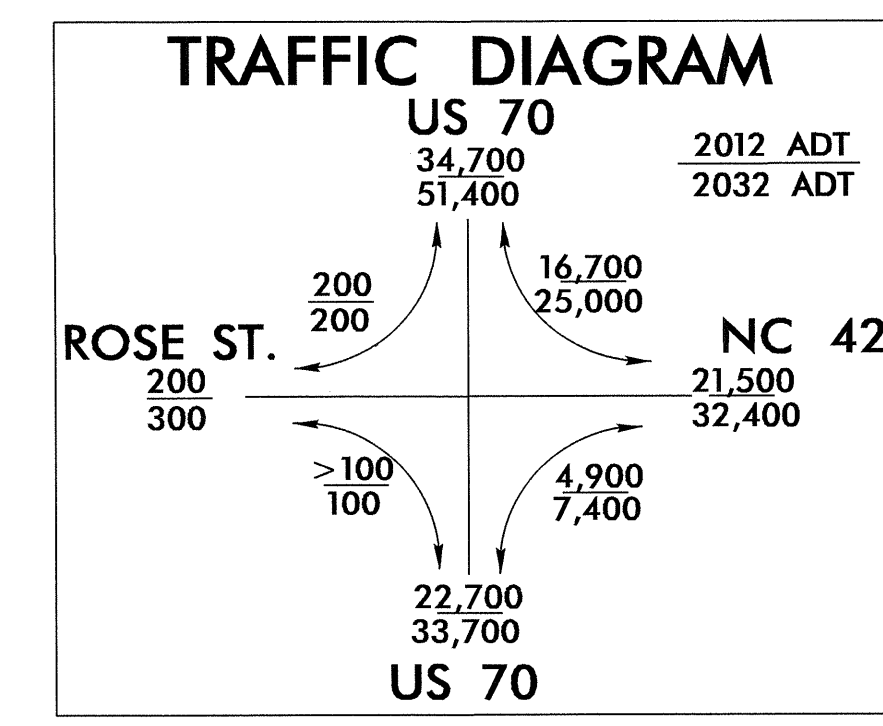
PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

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

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Nabil Hamdan UTILITIES PROJECT DESIGNER

UTILITIES BY OTHERS

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



LINE BACKSLOPE OF CUT
DITCH W/CL. B RIP RAP
SEE DETAIL BC
EST. 19.5 TONS RIP RAP
& 44 SQ. YDS. FILTER FABRIC

DO NOT DISTURB
LIGHT POLE

DO NOT DISTURB
LIGHT POLE

MATCH LINE SHEET 5 -L- STA. 21+05.00

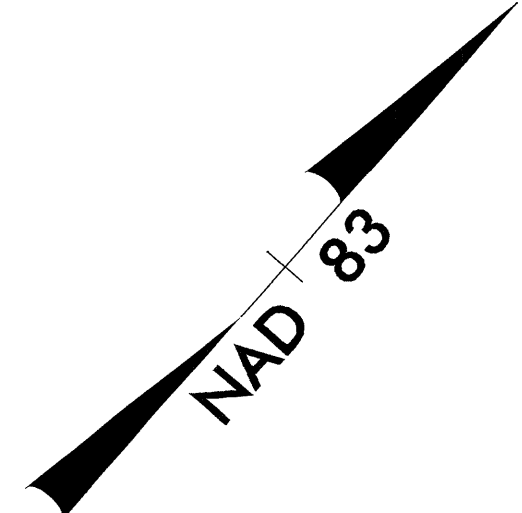
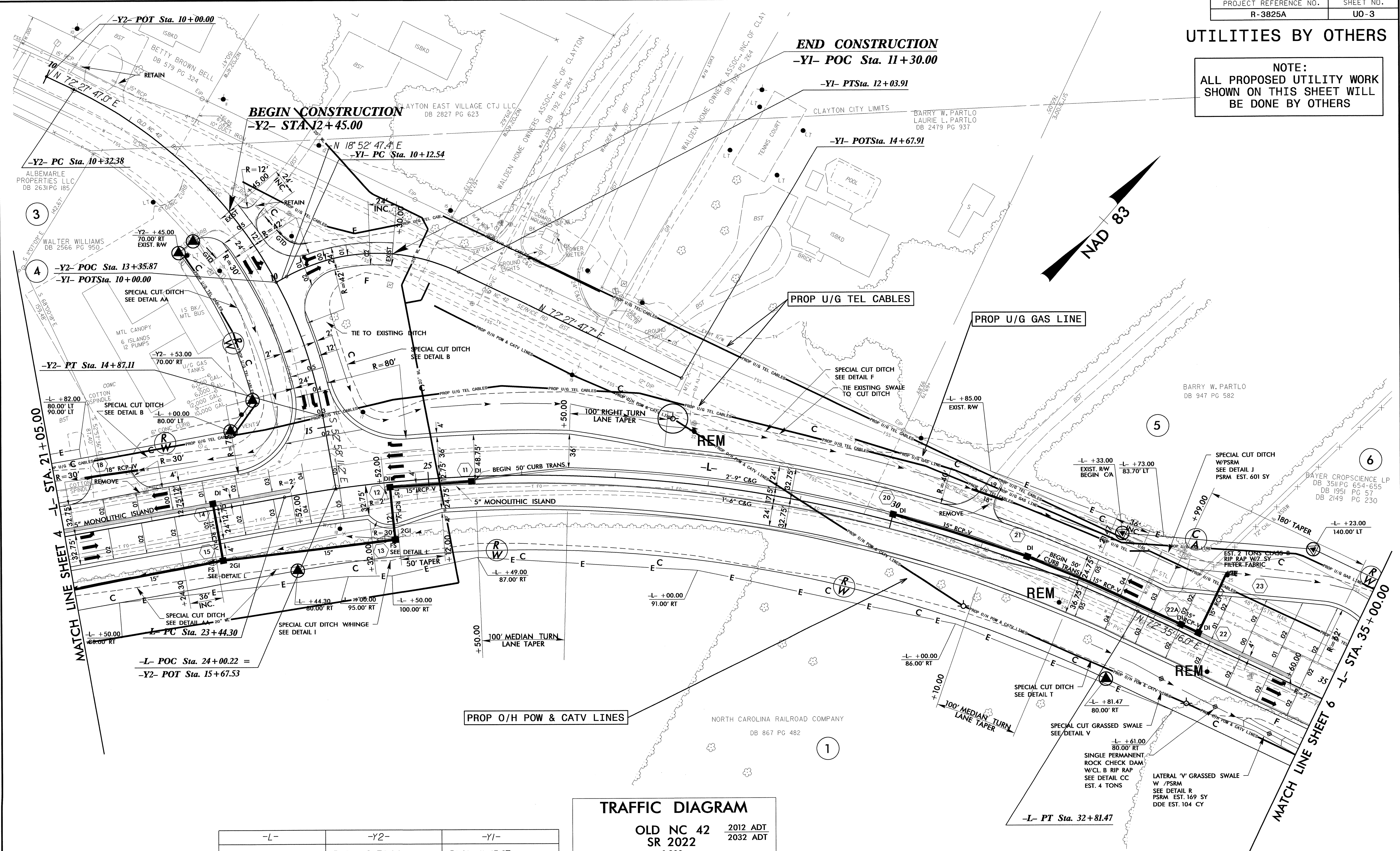
BEGIN TIP PROJECT R-3825A
-L- STA. 10+56.90

DRIVEWAY RADII ARE 20' UNLESS
OTHERWISE NOTED
FOR -L- PROFILE SEE SHEET 11

5/14/99
06-DEC-2015 15:31 U:\BD\3528a_rdy04_Ut_U02.dgn

UTILITIES BY OTHERS

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



3

4

5

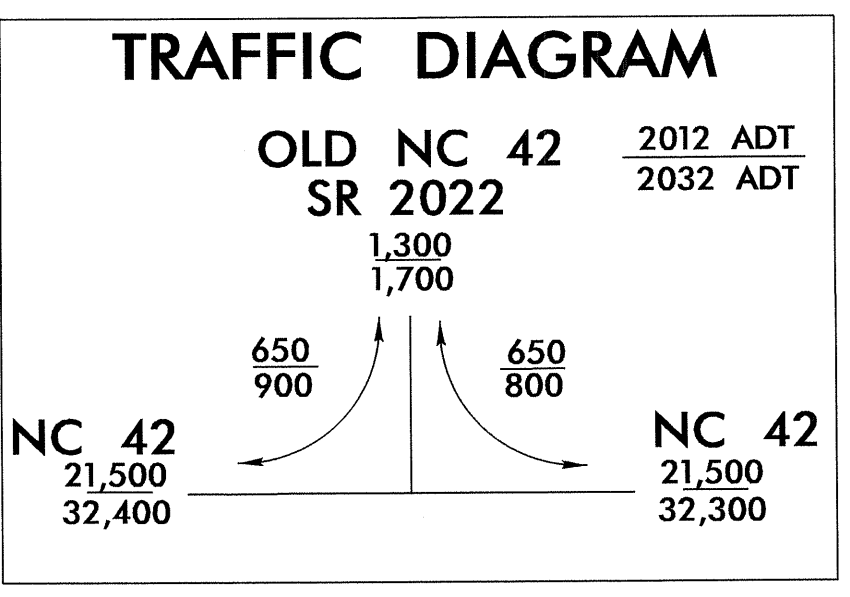
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1

MATCH LINE SHEET 4
-L- STA 21+05.00

MATCH LINE SHEET 6
-L- STA. 35+00.00

-L-	-Y2-	-Y1-
PI Sta 28+28.53	PI Sta 12+78.64	PI Sta 11+5.87
$\Delta = 35^{\circ} 33' 36.0''$ (RT)	$\Delta = 54^{\circ} 34' 01.8''$ (RT)	$\Delta = 53^{\circ} 35' 00.3''$ (RT)
$D = 3^{\circ} 47' 39.9''$	$D = 12^{\circ} 00' 00.0''$	$D = 28^{\circ} 00' 00.0''$
$L = 937.17'$	$L = 454.73'$	$L = 191.37'$
$T = 484.23'$	$T = 246.26'$	$T = 103.33'$
$R = 1,510.00'$	$R = 477.46'$	$R = 204.63'$
$SE = 0.05$	$SE = 0.05$	$SE = \text{SEE PLANS}$
$INC = 36'$	$INC = 24'$	$INC = 24'$
$RUNOFF = 180'$	$RUNOFF = \text{SEE PLANS}$	$RUNOFF = \text{SEE PLANS}$



DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE SEE SHEET 11

FOR -Y1- PROFILE SEE SHEET 14

FOR -Y2- PROFILE SEE SHEET 14

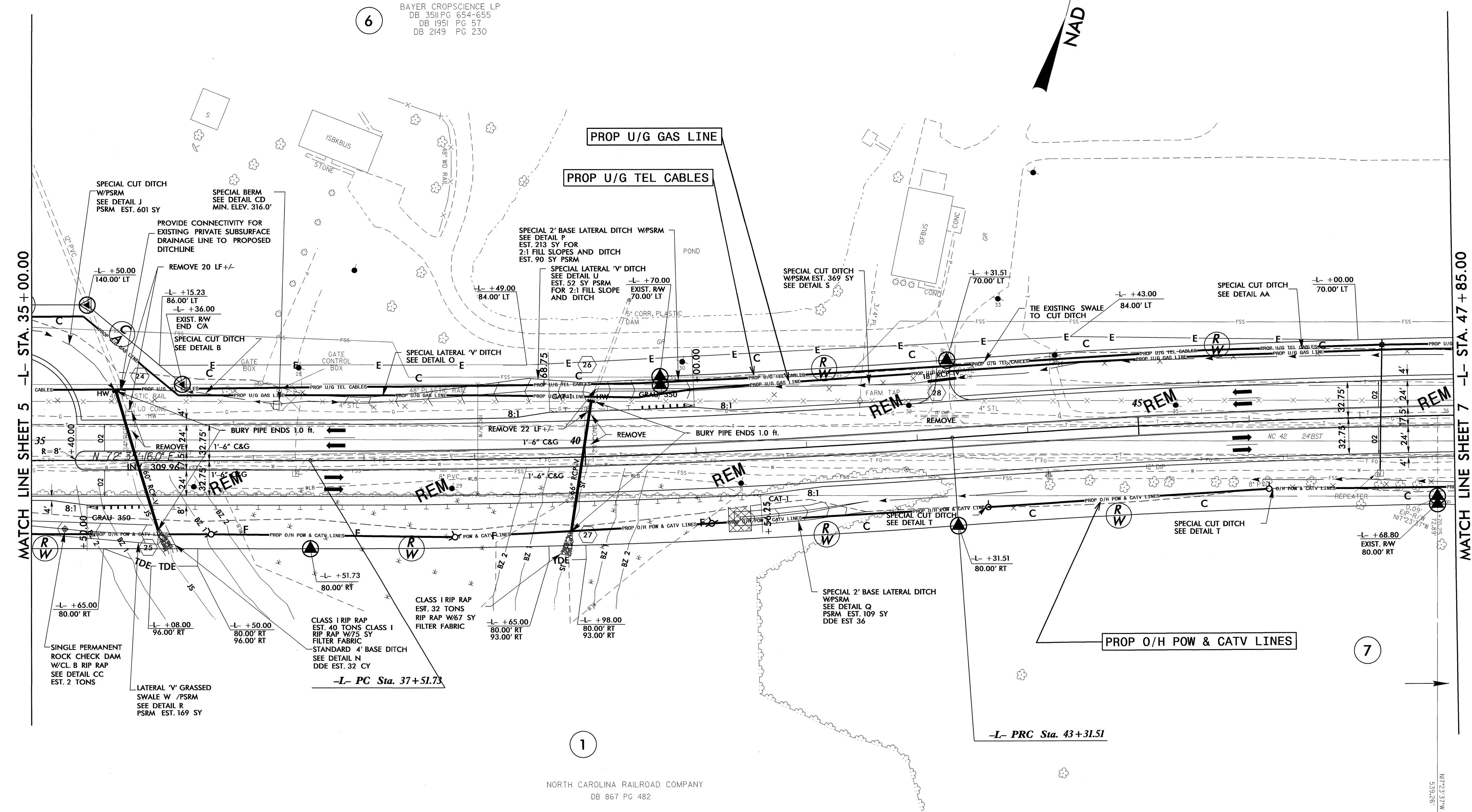
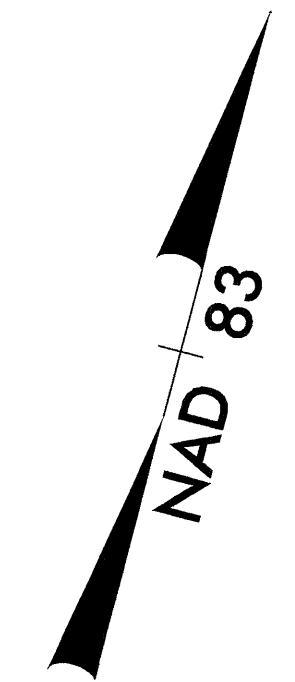
5/14/99
06-DEC-2011 15:33
U:\projects\3825A\U0-3.dgn
L:\projects\3825A\U0-3.dgn

UTILITIES BY OTHERS

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

5/14/99

6 BAYER CROPSOURCE LP
DB 3511 PG 654-655
DB 1951 PG 57
DB 2149 PG 230



NORTH CAROLINA RAILROAD COMPANY
DB 867 PG 482

-L-	
PI Sta 40+41.74	PI Sta 46+21.53
$\Delta = 4' 09'' 08.6'' (LT)$	$\Delta = 4' 09'' 08.6'' (RT)$
$D = 0' 42' 58.3''$	$D = 0' 42' 58.3''$
$L = 579.78'$	$L = 579.78'$
$T = 290.02'$	$T = 290.02'$
$R = 8,000.00'$	$R = 8,000.00'$
$SE = NC$	$SE = NC$

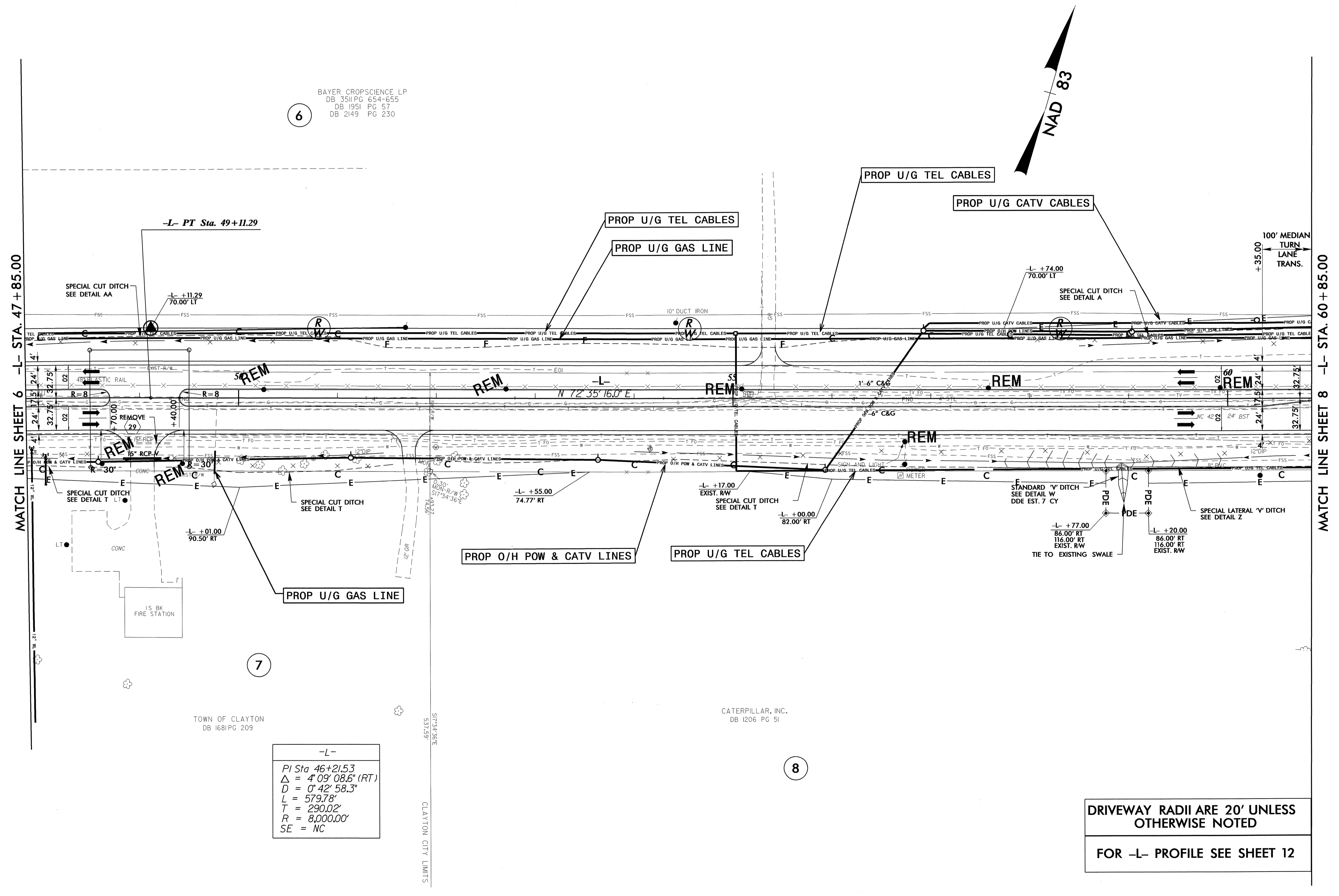
DRIVEWAY RADII ARE 20' UNLESS
OTHERWISE NOTED
FOR -L- PROFILE SEE SHEETS 11 & 12

N:\ut\11\4_06_PEC-2011\536_UO04\3825a_r.dwg 06_Ut_UO4.dgn
 11/11/11 11:53:36 AM
 11/11/11 11:53:36 AM

CLAYTON CITY LIMITS

UTILITIES BY OTHERS

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



6
BAYER CROPSOURCE LP
DB 3511 PG 654-655
DB 1951 PG 57
DB 2149 PG 230

7
TOWN OF CLAYTON
DB 1681 PG 209

8
CATERPILLAR, INC.
DB 1206 PG 51

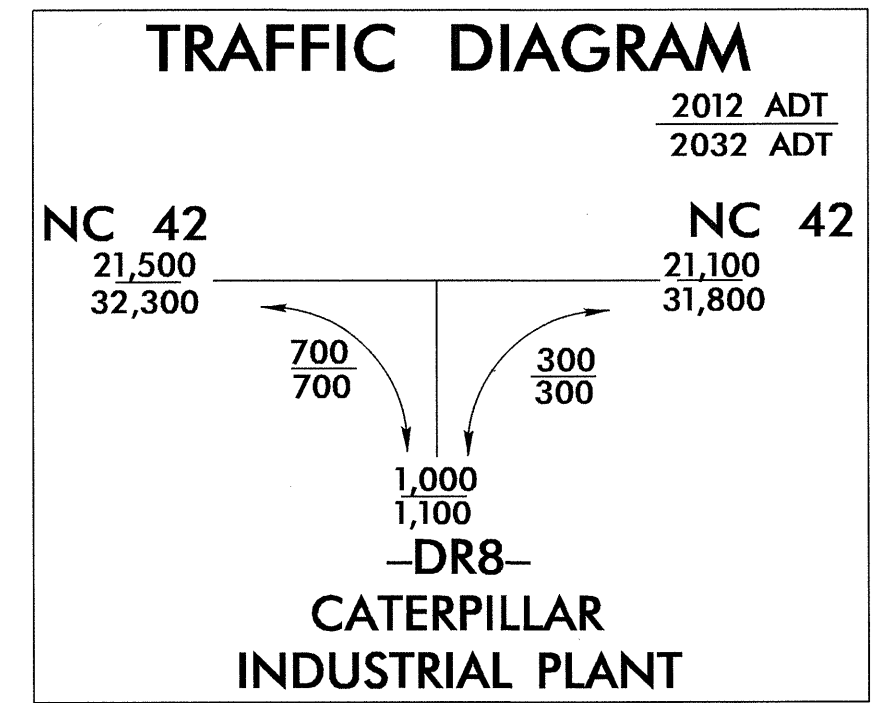
-L-
PI Sta 46+21.53
 $\Delta = 4' 09'' 08.6''$ (RT)
 $D = 0' 42'' 58.3''$
 $L = 579.78'$
 $T = 290.02'$
 $R = 8,000.00'$
SE = NC

DRIVEWAY RADII ARE 20' UNLESS
OTHERWISE NOTED
FOR -L- PROFILE SEE SHEET 12

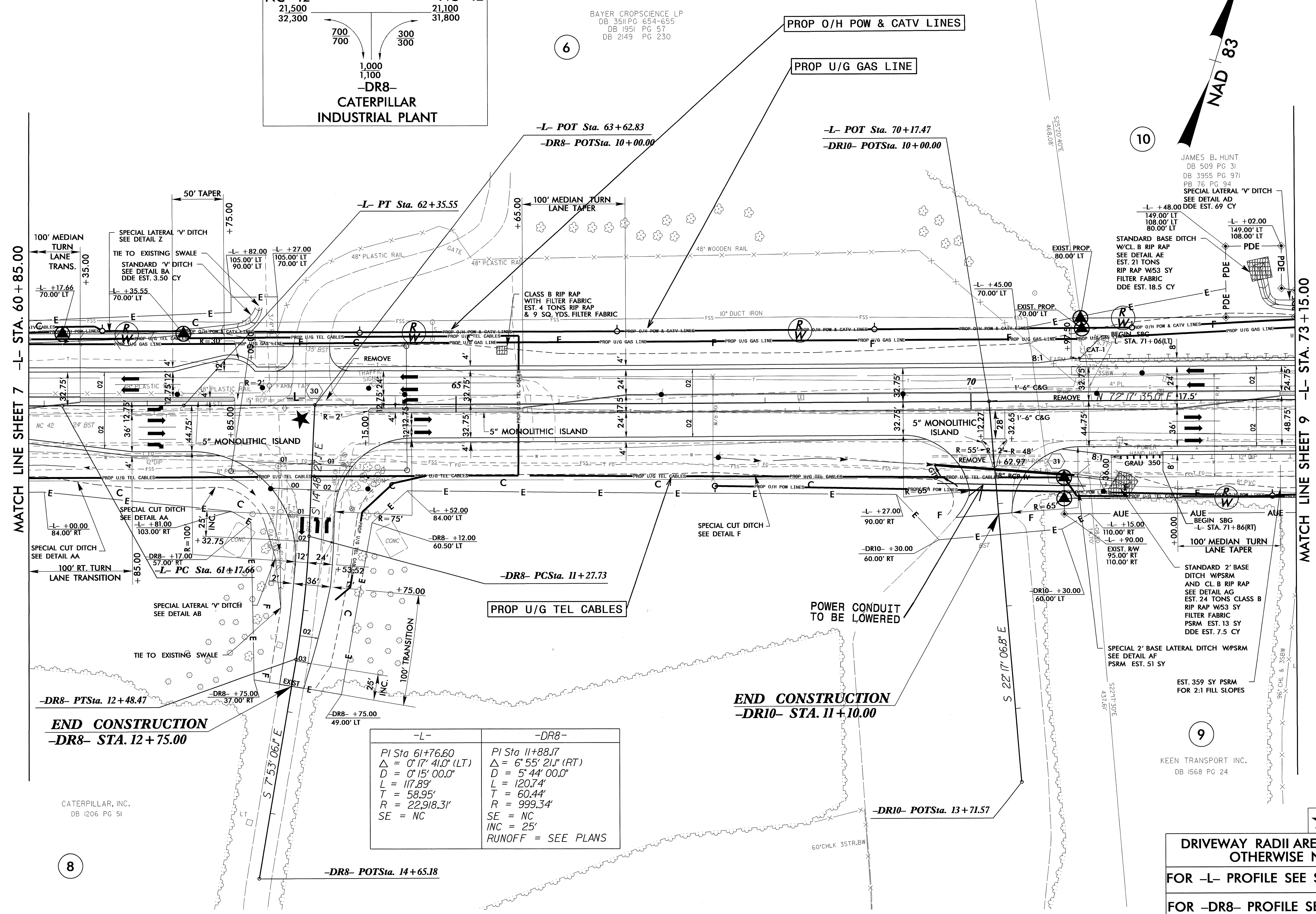
5/14/99
 13-LEB-2012 4456 UBO\3825a_rdy07_Ut_UO5.dgn
 8:53:33 UCHENAM.E 3.3

UTILITIES BY OTHERS

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



BAYER CROPSOURCE LP
DB 3511 PG 654-655
DB 1951 PG 57
DB 2149 PG 230



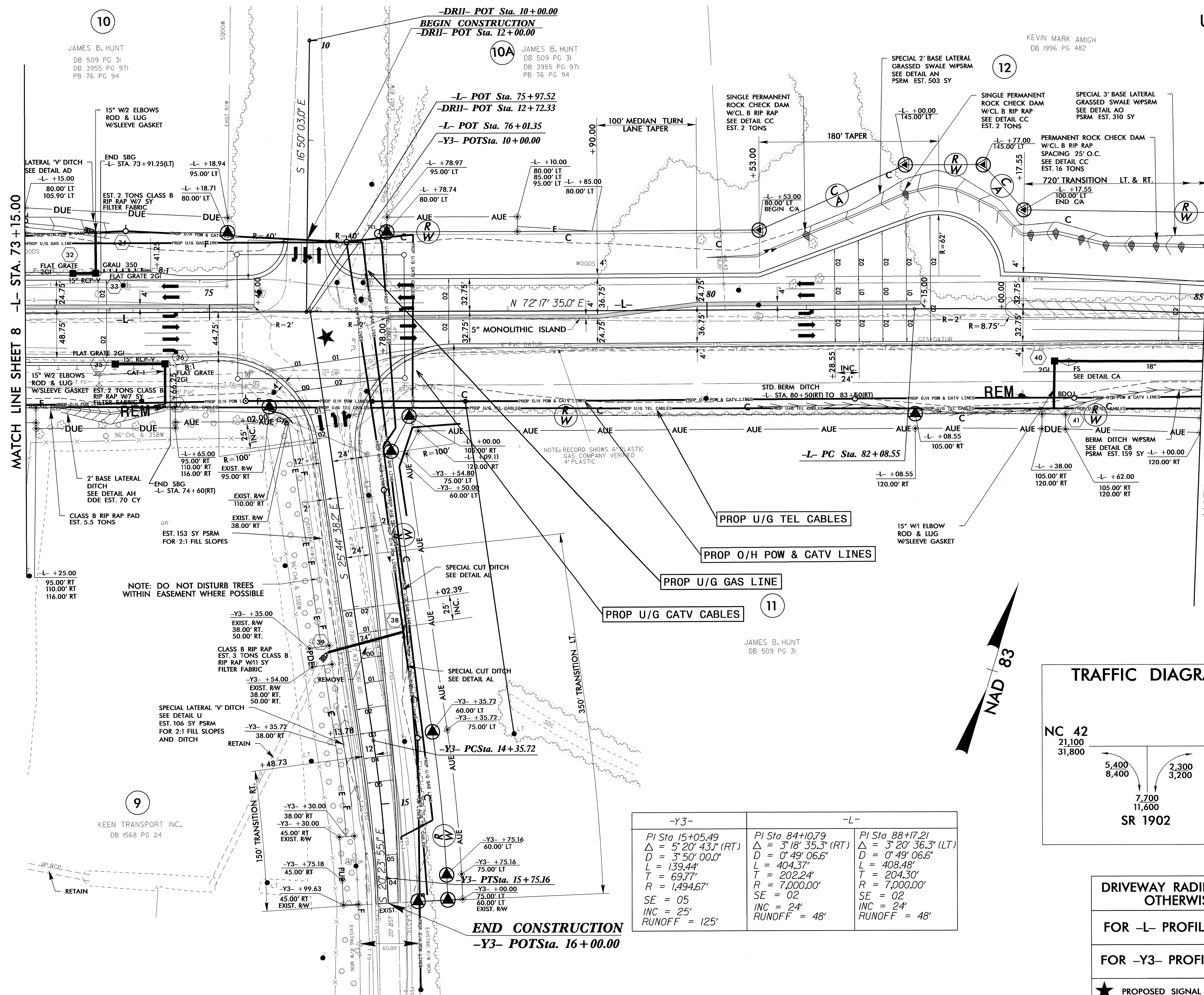
-L-	-DR8-
PI Sta 61+76.60	PI Sta 11+88.17
$\Delta = 0' 17' 41.0" (LT)$	$\Delta = 6' 55' 21" (RT)$
$D = 0' 15' 00.0"$	$D = 5' 44' 00.0"$
$L = 117.89'$	$L = 120.74'$
$T = 58.95'$	$T = 60.44'$
$R = 22,918.31'$	$R = 999.34'$
$SE = NC$	$SE = NC$
	$INC = 25'$
	$RUNOFF = SEE PLANS$

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED
FOR -L- PROFILE SEE SHEETS 12 & 13
FOR -DR8- PROFILE SEE SHEET 14

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3825A-08-U016-01-PLAN

UTILITIES BY OTHERS

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



10
JAMES B. HUNT
DB 509 PG 31
DB 3955 PG 971
PB 76 PG 94

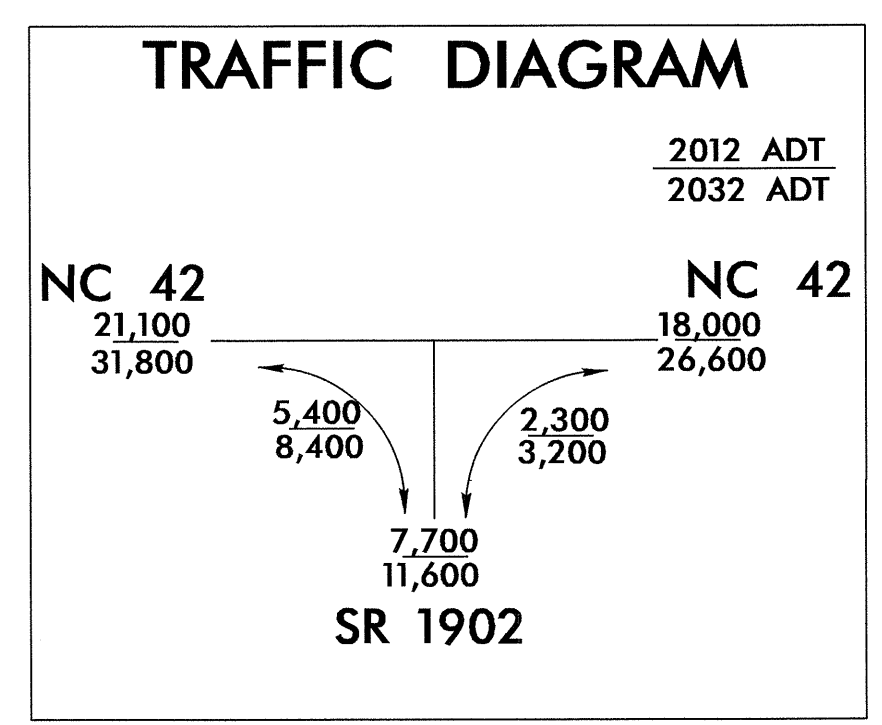
10A
JAMES B. HUNT
DB 509 PG 31
DB 3955 PG 971
PB 76 PG 94

12
KEVIN MARK AMIGH
DB 1996 PG 482

11
JAMES B. HUNT
DB 509 PG 31

9
KEEN TRANSPORT INC.
DB I568 PG 24

-Y3-	-L-	-L-
PI Sta 15+05.49	PI Sta 84+10.79	PI Sta 88+17.21
$\Delta = 5^{\circ} 20' 43.1''$ (RT)	$\Delta = 3^{\circ} 18' 35.3''$ (RT)	$\Delta = 3^{\circ} 20' 36.3''$ (LT)
$D = 3^{\circ} 50' 00.0''$	$D = 0^{\circ} 49' 06.6''$	$D = 0^{\circ} 49' 06.6''$
$L = 139.44'$	$L = 404.37'$	$L = 408.48'$
$T = 69.77'$	$T = 202.24'$	$T = 204.30'$
$R = 1,494.67'$	$R = 7,000.00'$	$R = 7,000.00'$
SE = 05	SE = 02	SE = 02
INC = 25'	INC = 24'	INC = 24'
RUNOFF = 125'	RUNOFF = 48'	RUNOFF = 48'



DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE SEE SHEET 13

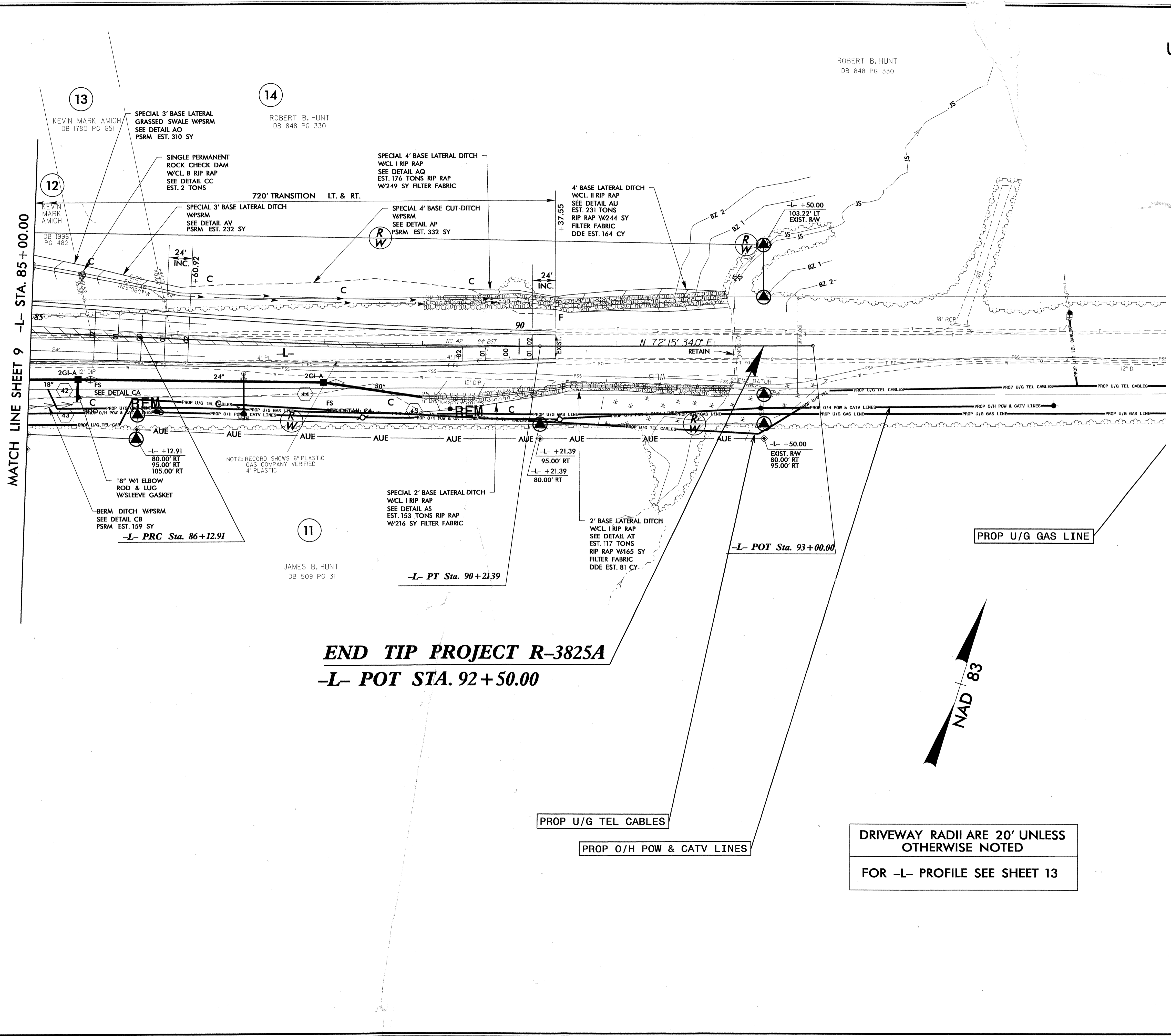
FOR -Y3- PROFILE SEE SHEET 14

★ PROPOSED SIGNAL

5/14/99
06-DEC-2011 15:39
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UTILITIES BY OTHERS

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



END TIP PROJECT R-3825A
-L- POT STA. 92 + 50.00

PROP U/G GAS LINE

PROP U/G TEL CABLES

PROP O/H POW & CATV LINES

DRIVEWAY RADII ARE 20' UNLESS
OTHERWISE NOTED
FOR -L- PROFILE SEE SHEET 13

NAD 83

MATCH LINE SHEET 9 -L- STA. 85 + 00.00

5/14/99
06-DEC-2011 15:40
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