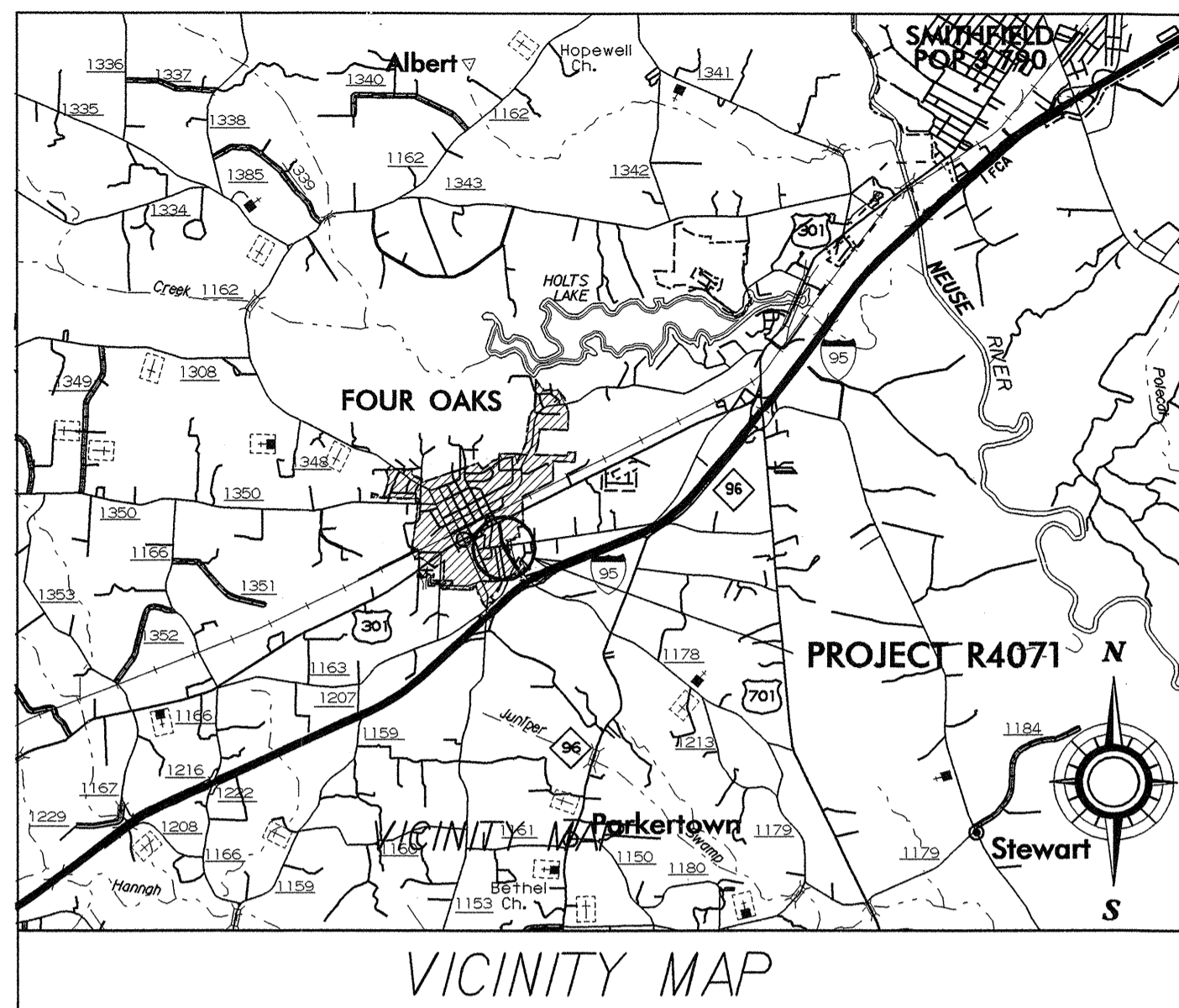


09/08/99

TIP PROJECT: R-4071

CONTRACT: C201297



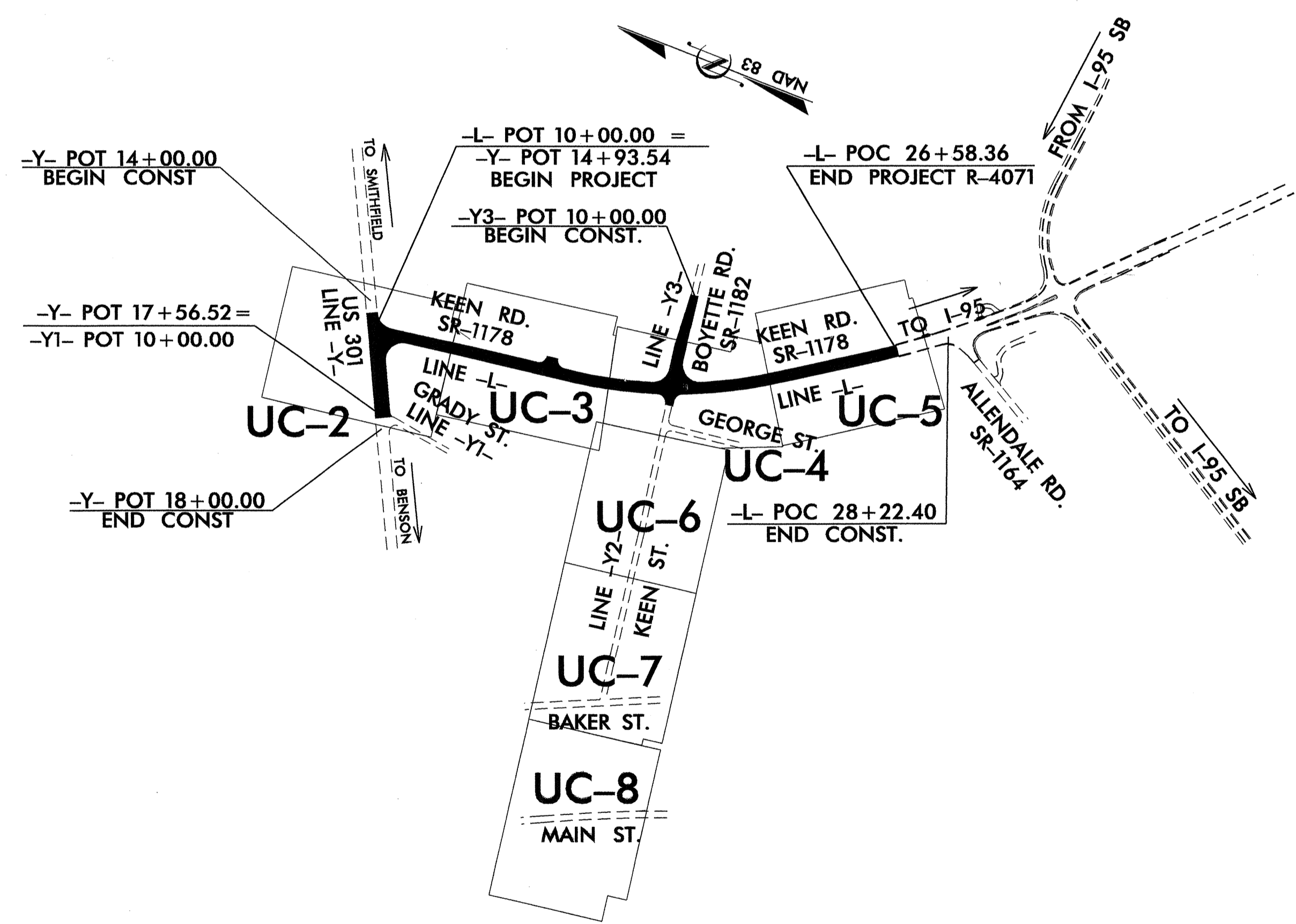
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
R-4071	UC-1

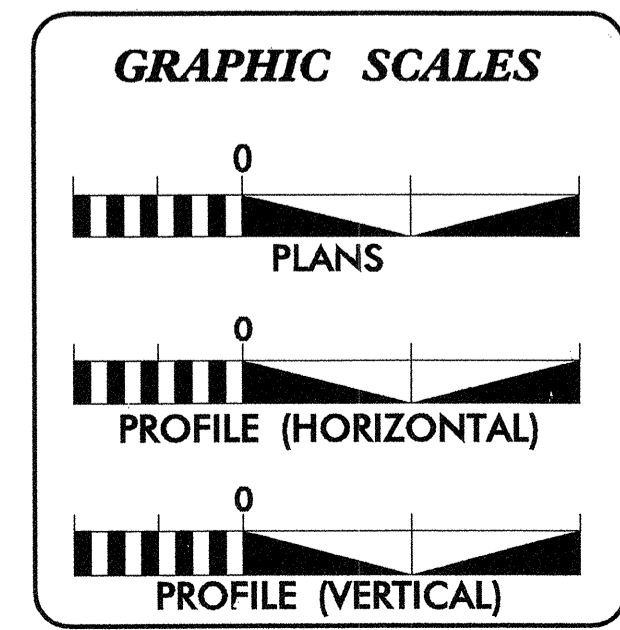
**UTILITY CONSTRUCTION PLANS
JOHNSTON COUNTY**

LOCATION: SR 1178 (KEEN ROAD) FROM US-301 TO 164' NORTH WEST OF SR 1164 (ALLENDALE ROAD)

TYPE OF WORK: UTILITY CONSTRUCTION (WATER & SEWER)



19-MAR-2007 08:36 s:\sdcodes\utilities\rbw\mrb\projects\r4071\r4071_ut_title_uc1.psh.dgn \$\$\$USERNAME\$\$\$

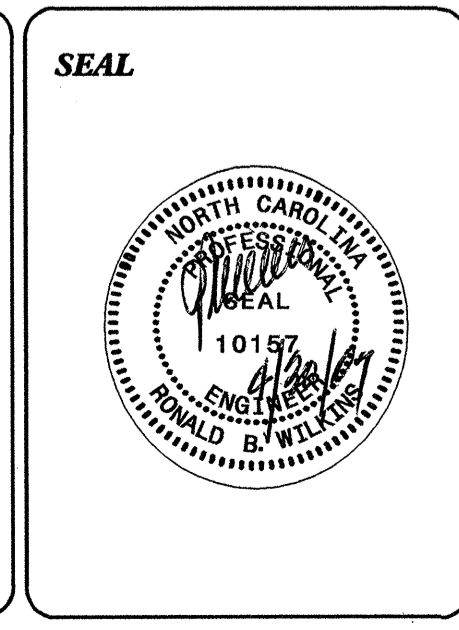


INDEX OF SHEETS

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

WATER AND SEWER OWNERS ON PROJECT

- (1) WATER - TOWN OF FOUR OAKS
- (2) SANITARY SEWER - TOWN OF FOUR OAKS
- (3) WATER - JOHNSTON COUNTY (16" DI)



PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITY SECTION**

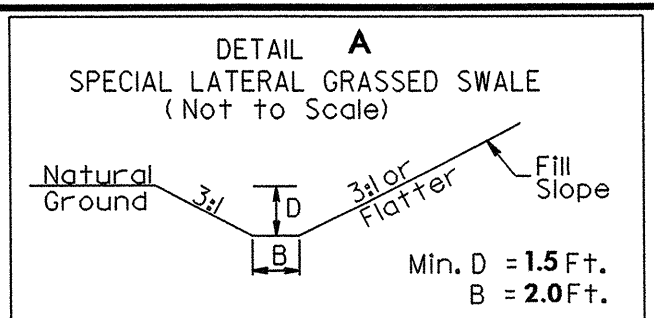
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
R. B. WILKINS, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
MICHAEL R. BRIGHT UTILITIES PROJECT DESIGNER

5/14/99
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 \$\$\$\$SERIAL NUMBER\$\$\$\$

★ EXISTING SIGNAL TO BE UPGRADED
 FOR -L- PROFILE, SEE SHEET NO. 13
 FOR -Y- PROFILE, SEE SHEET NO. 15

TRADE OIL COMPANY
 DB 2343 PG 303
 PB 61PG 282



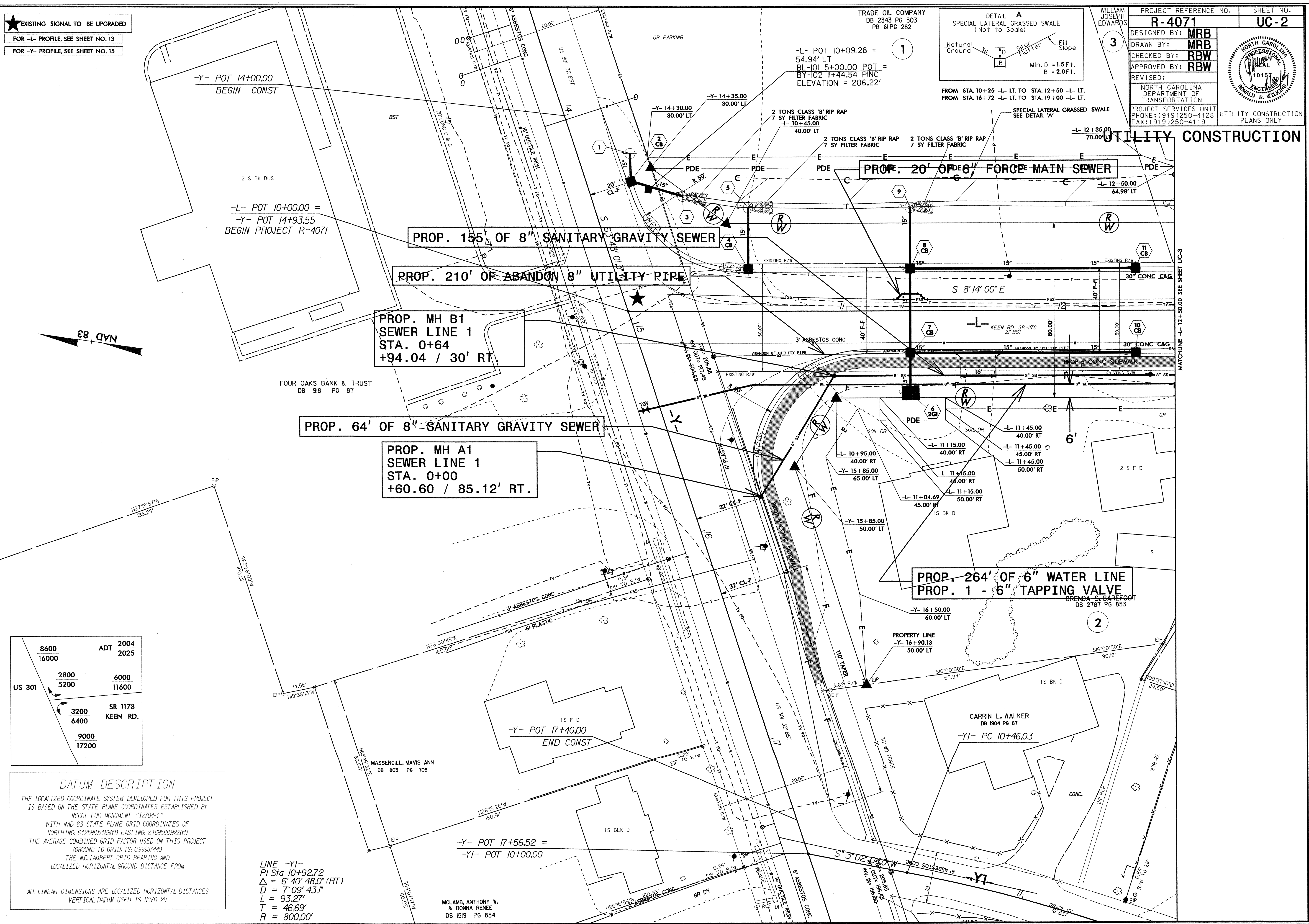
PROJECT REFERENCE NO. **R-4071** SHEET NO. **UC-2**
 DESIGNED BY: **MRB**
 DRAWN BY: **MRB**
 CHECKED BY: **RBW**
 APPROVED BY: **RBW**
 REVISED:
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 PROJECT SERVICES UNIT
 PHONE: (919) 250-4128
 FAX: (919) 250-4119
 UTILITY CONSTRUCTION PLANS ONLY

8600	ADT	2004
16000		2025
2800		6000
5200		11600
3200	SR 1178	
6400	KEEN RD.	
9000		17200

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "12704-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 6125985.183(F1) EASTING: 2169588.922(F1) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987440 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

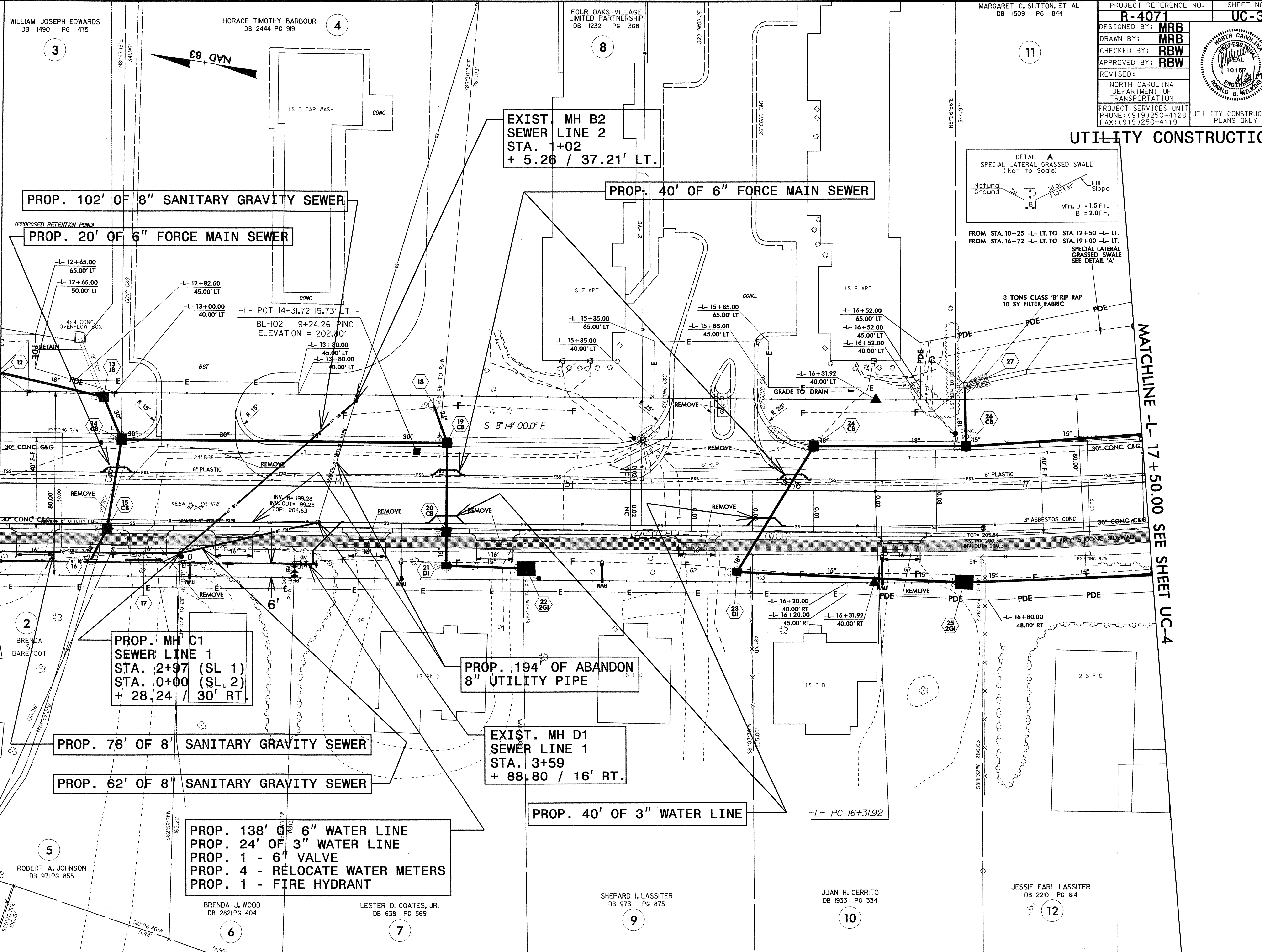
LINE -Y1-
 PI Sta 10+92.72
 $\Delta = 6' 40'' 48.0''$ (RT)
 $D = 7' 09'' 43.1''$
 $L = 93.27'$
 $T = 46.69'$
 $R = 800.00'$

MCLAMB, ANTHONY W.
 & DONNA RENEE
 DB 1519 PG 854



MATCHLINE -L- 12+50.00 SEE SHEET UC-3

5/14/09



MATCHLINE -L- 12 + 50.00 SEE SHEET UC-2

MATCHLINE -L- 17 + 50.00 SEE SHEET UC-4

WILLIAM JOSEPH EDWARDS
DB 1490 PG 475

HORACE TIMOTHY BARBOUR
DB 2444 PG 919

FOUR OAKS VILLAGE LIMITED PARTNERSHIP
DB 1232 PG 368

MARGARET C. SUTTON, ET AL
DB 1509 PG 844

PROP. 102' OF 8" SANITARY GRAVITY SEWER

PROP. 20' OF 6" FORCE MAIN SEWER

EXIST. MH B2
SEWER LINE 2
STA. 1+02
+ 5.26 / 37.21' LT.

PROP. 40' OF 6" FORCE MAIN SEWER

PROP. MH C1
SEWER LINE 1
STA. 2+97 (SL 1)
STA. 0+00 (SL 2)
+ 28.24 / 30' RT.

PROP. 194' OF ABANDON
8" UTILITY PIPE

EXIST. MH D1
SEWER LINE 1
STA. 3+59
+ 88.80 / 16' RT.

PROP. 78' OF 8" SANITARY GRAVITY SEWER

PROP. 62' OF 8" SANITARY GRAVITY SEWER

PROP. 138' OF 6" WATER LINE
PROP. 24' OF 3" WATER LINE
PROP. 1 - 6" VALVE
PROP. 4 - RELOCATE WATER METERS
PROP. 1 - FIRE HYDRANT

PROP. 40' OF 3" WATER LINE

ROBERT A. JOHNSON
DB 971 PG 855

BRENDA J. WOOD
DB 2821 PG 404

LESTER D. COATES, JR.
DB 638 PG 569

SHEPARD I. LASSITER
DB 973 PG 875

JUAN H. CERRITO
DB 1933 PG 334

JESSIE EARL LASSITER
DB 2210 PG 614

PROJECT REFERENCE NO. **R-4071** SHEET NO. **UC-3**

DESIGNED BY: **MRB**

DRAWN BY: **MRB**

CHECKED BY: **RBW**

APPROVED BY: **RBW**

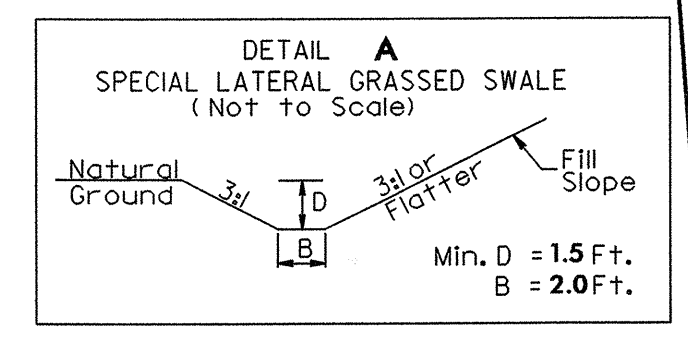
REVISED:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
10157
DONALD B. WILLIAMS

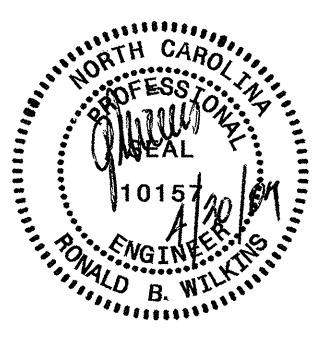
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROJECT SERVICES UNIT
PHONE: (919) 250-4128
FAX: (919) 250-4119

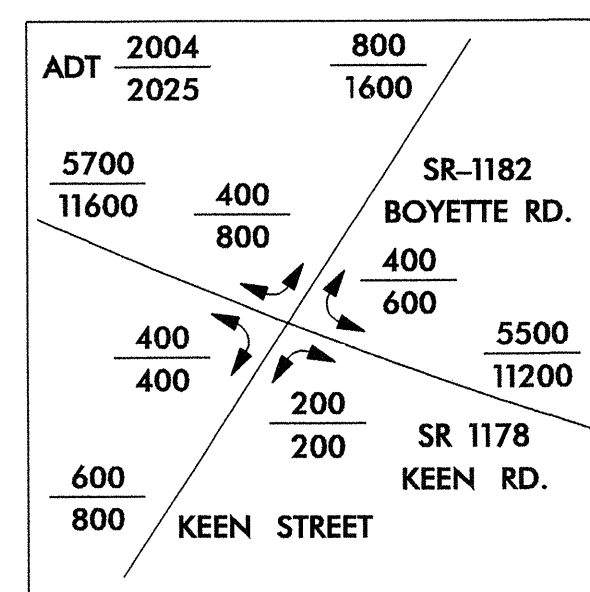
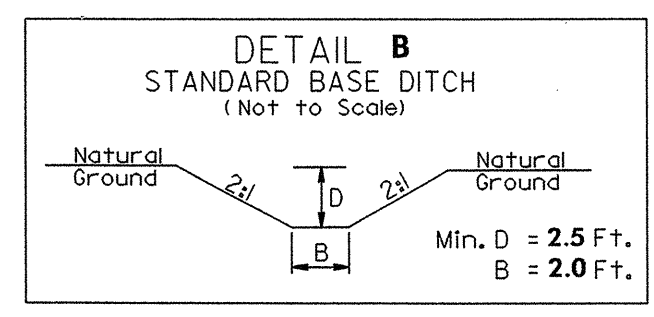
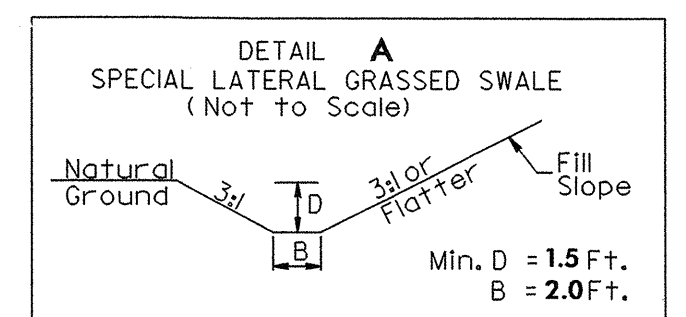
UTILITY CONSTRUCTION PLANS ONLY



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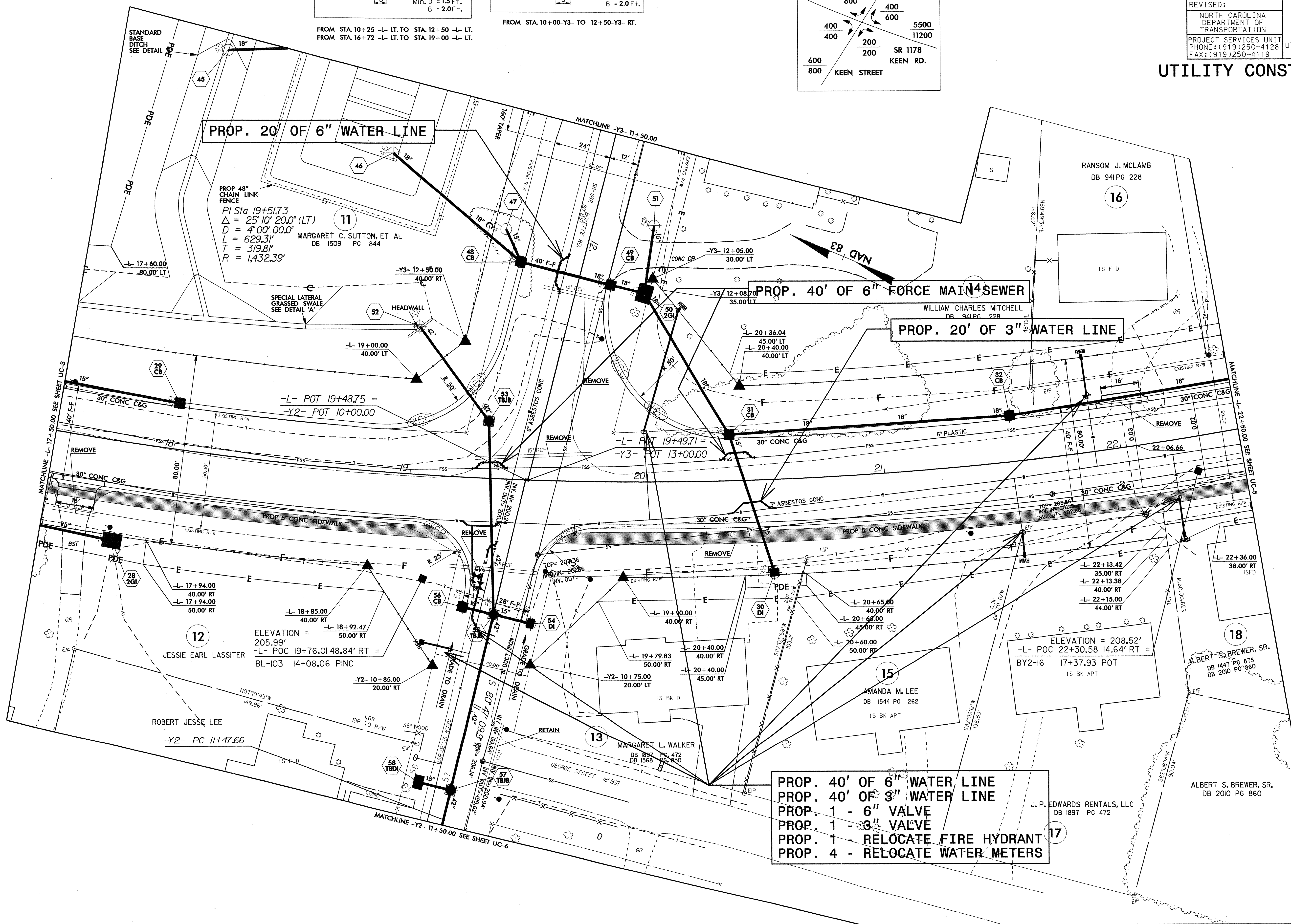


UTILITY CONSTRUCTION



FROM STA. 10+25 -L- LT. TO STA. 12+50 -L- LT.
 FROM STA. 16+72 -L- LT. TO STA. 19+00 -L- LT.

FROM STA. 10+00-Y3- TO 12+50-Y3- RT.



5/14/99
 15-MAR-2007 10:34
 C:\projects\R-4071\UC-4\UC-4.psh.dgn

5/14/99

MARY LOU LEE
DB 1794 PG 464

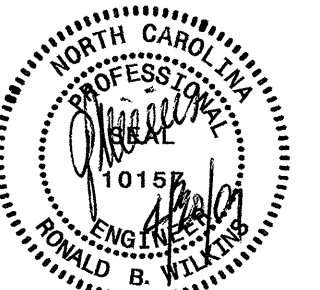
PI Sta 12+50.39
 $\Delta = 0^\circ 58' 51.3" (RT)$
 $D = 0^\circ 28' 38.9"$
 $L = 205.45'$
 $T = 102.73'$
 $R = 12,000.00'$

FOUR OAKS CEMETARY

PROJECT REFERENCE NO. SHEET NO.

R-4071 UC-6

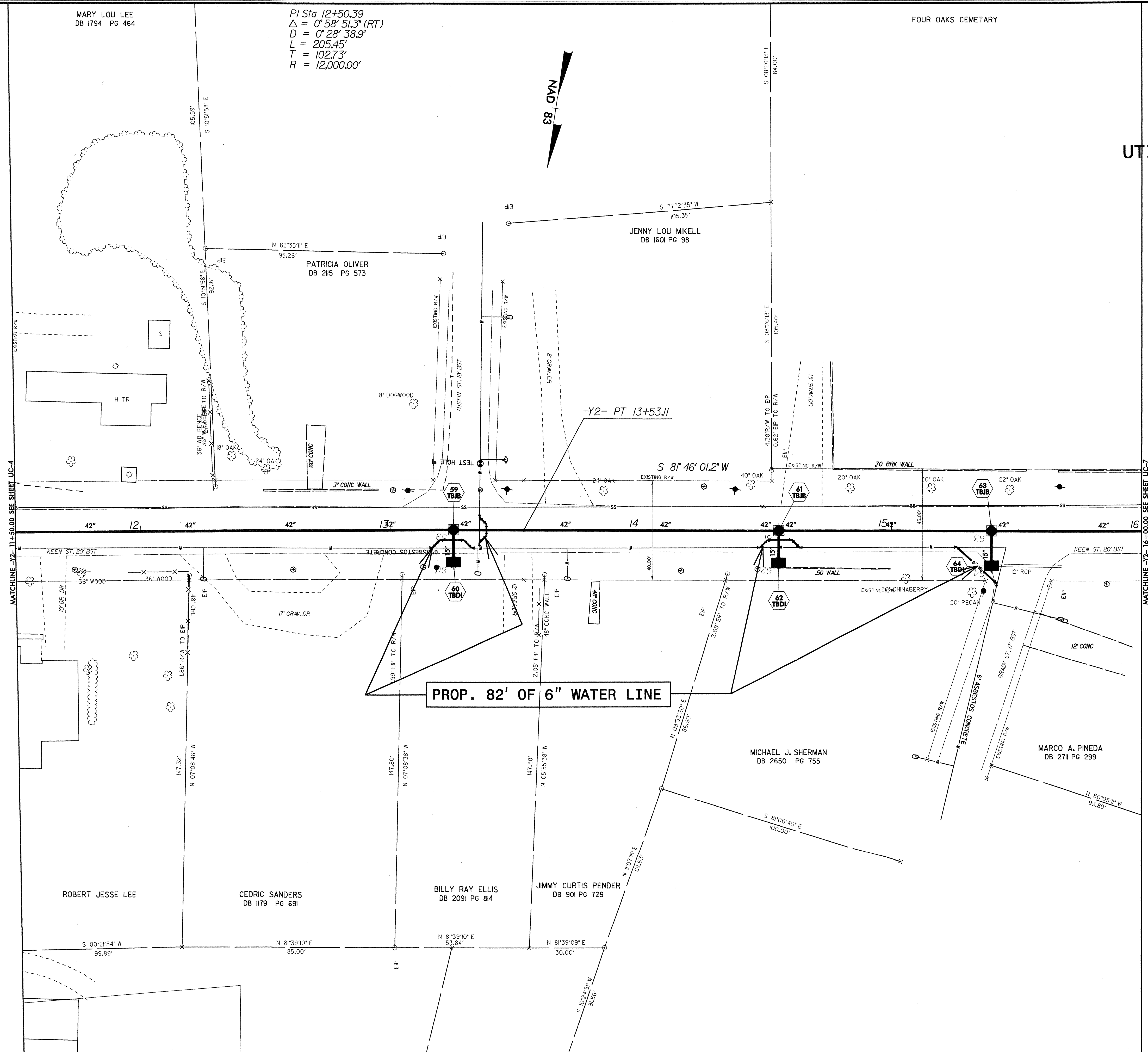
DESIGNED BY: MRB
DRAWN BY: MRB
CHECKED BY: RBW
APPROVED BY: RBW
REVISED:



NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
PROJECT SERVICES UNIT
PHONE: (919) 250-4128
FAX: (919) 250-4119

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

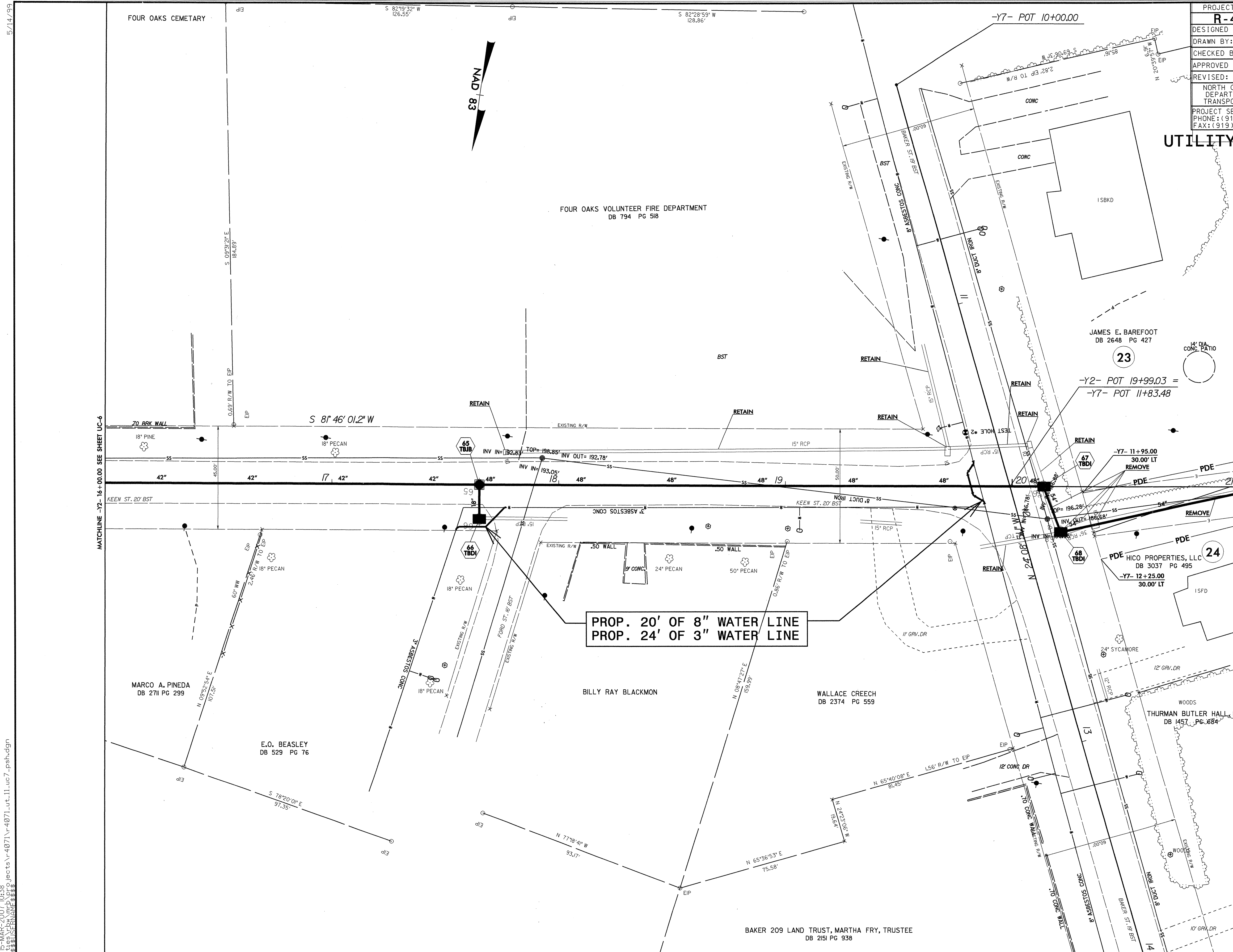


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\$\$\$\$\$USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-4071	UC-7
DESIGNED BY: MRB	
DRAWN BY: MRB	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

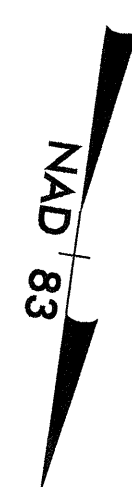


**PROP. 20' OF 8" WATER LINE
PROP. 24' OF 3" WATER LINE**

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 R-4071-UC-7-PLAN-11

MATCHLINE -Y2- 16+00.00 SEE SHEET UC-6

MATCHLINE -Y2- 21+00.00 SEE SHEET UC-8



FOUR OAKS CEMETARY
 FOUR OAKS VOLUNTEER FIRE DEPARTMENT
 DB 794 PG 518
 JAMES E. BAREFOOT
 DB 2648 PG 427
 MARCO A. PINEDA
 DB 2711 PG 299
 E.O. BEASLEY
 DB 529 PG 76
 BILLY RAY BLACKMON
 WALLACE CREECH
 DB 2374 PG 559
 BAKER 209 LAND TRUST, MARTHA FRY, TRUSTEE
 DB 2151 PG 938
 HICO PROPERTIES, LLC
 DB 3037 PG 495
 THURMAN BUTLER HALL, II
 DB 1457 PG 684

5/14/99

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PROJECT REFERENCE NO.	SHEET NO.
R-4071	UC-8
DESIGNED BY: MRB	
DRAWN BY: MRB	
CHECKED BY: RBW	
APPROVED BY: RBW	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

PI Sta 11+93.37
 $\Delta = 4' 25'' 46.0''$ (LT)
 $D = 1' 08'' 45.3''$
 $L = 386.54'$
 $T = 193.37'$
 $R = 5,000.00'$

TERRY BROWN
 DB 817 PG 166

**PROP. MH A3
 SEWER LINE 3
 STA. 0+00
 +17.78 / 45.00' LT.**

PROP. 25' OF 8" SANITARY GRAVITY SEWER

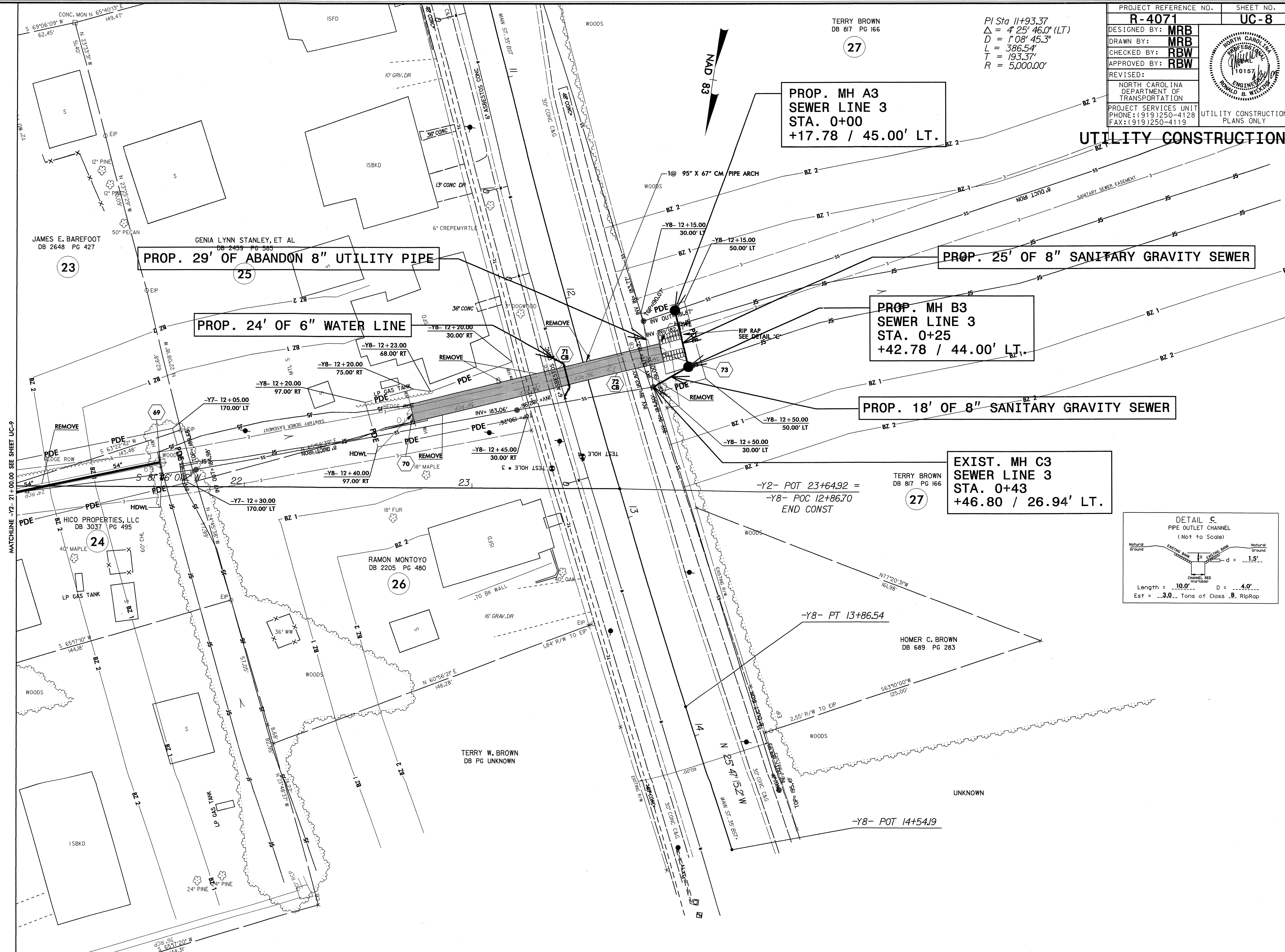
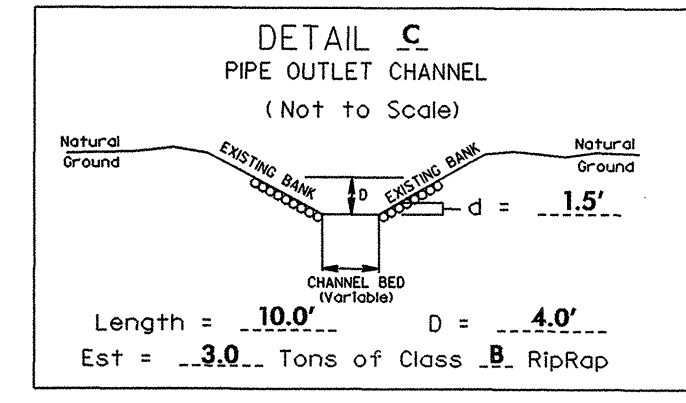
**PROP. MH B3
 SEWER LINE 3
 STA. 0+25
 +42.78 / 44.00' LT.**

PROP. 18' OF 8" SANITARY GRAVITY SEWER

**EXIST. MH C3
 SEWER LINE 3
 STA. 0+43
 +46.80 / 26.94' LT.**

TERRY BROWN
 DB 817 PG 166

-Y2- POT 23+64.92 =
 -Y8- POC 12+86.70
 END CONST



JAMES E. BAREFOOT
 DB 2648 PG 427

GENIA LYNN STANLEY, ET AL
 DB 2459 PG 585

RAMON MONTOYO
 DB 2205 PG 480

TERRY W. BROWN
 DB PG UNKNOWN

HOMER C. BROWN
 DB 689 PG 283

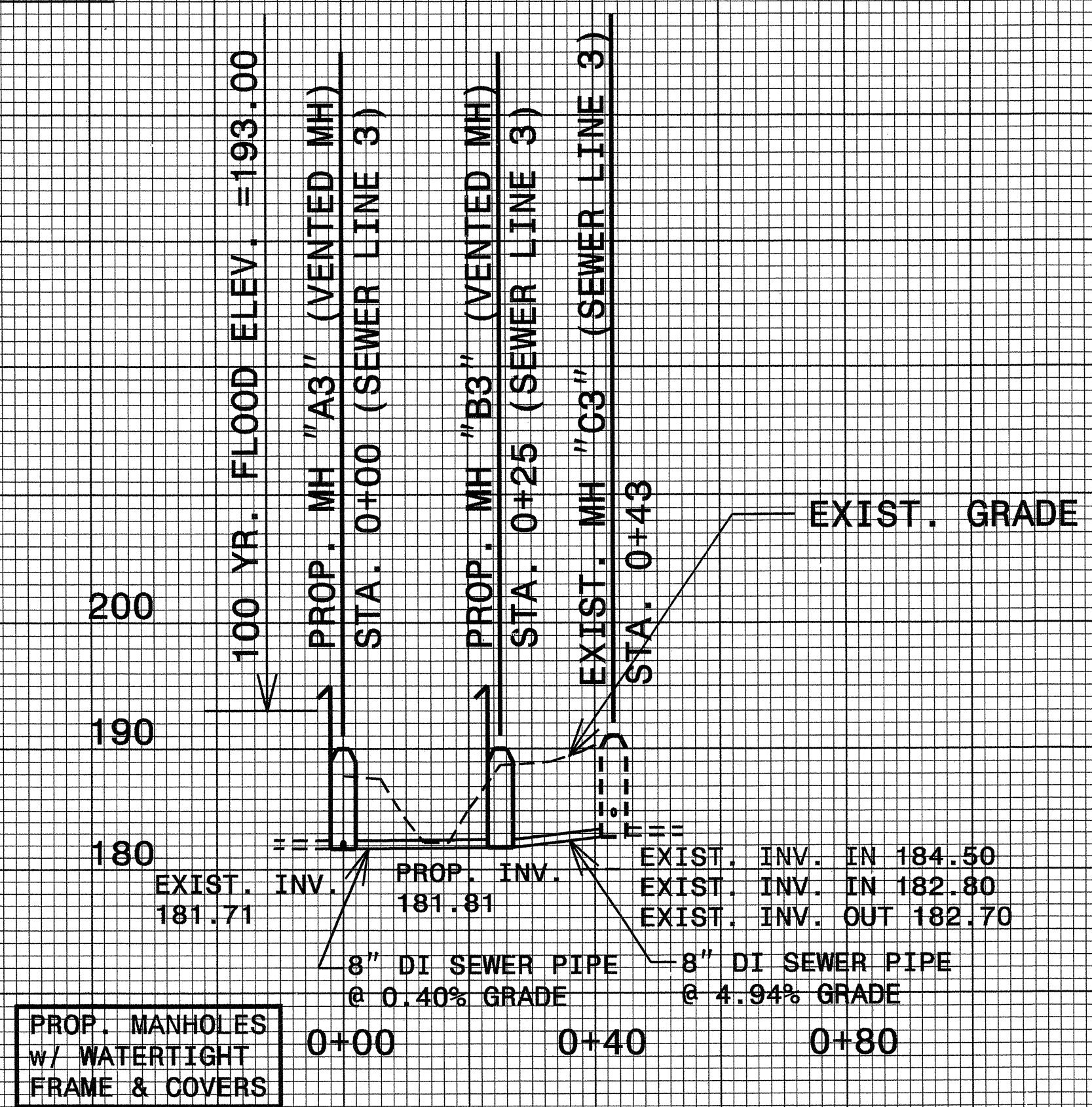
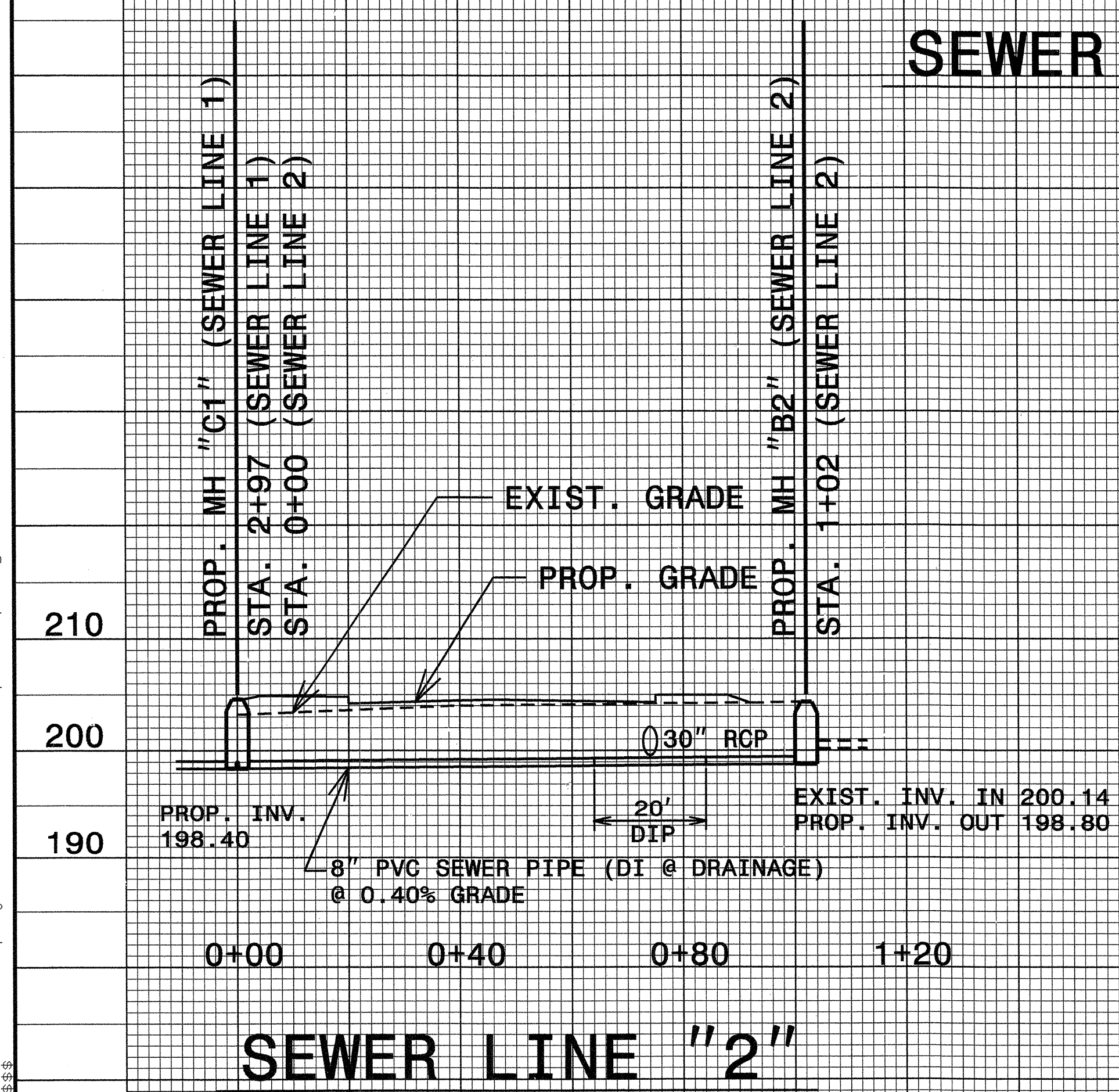
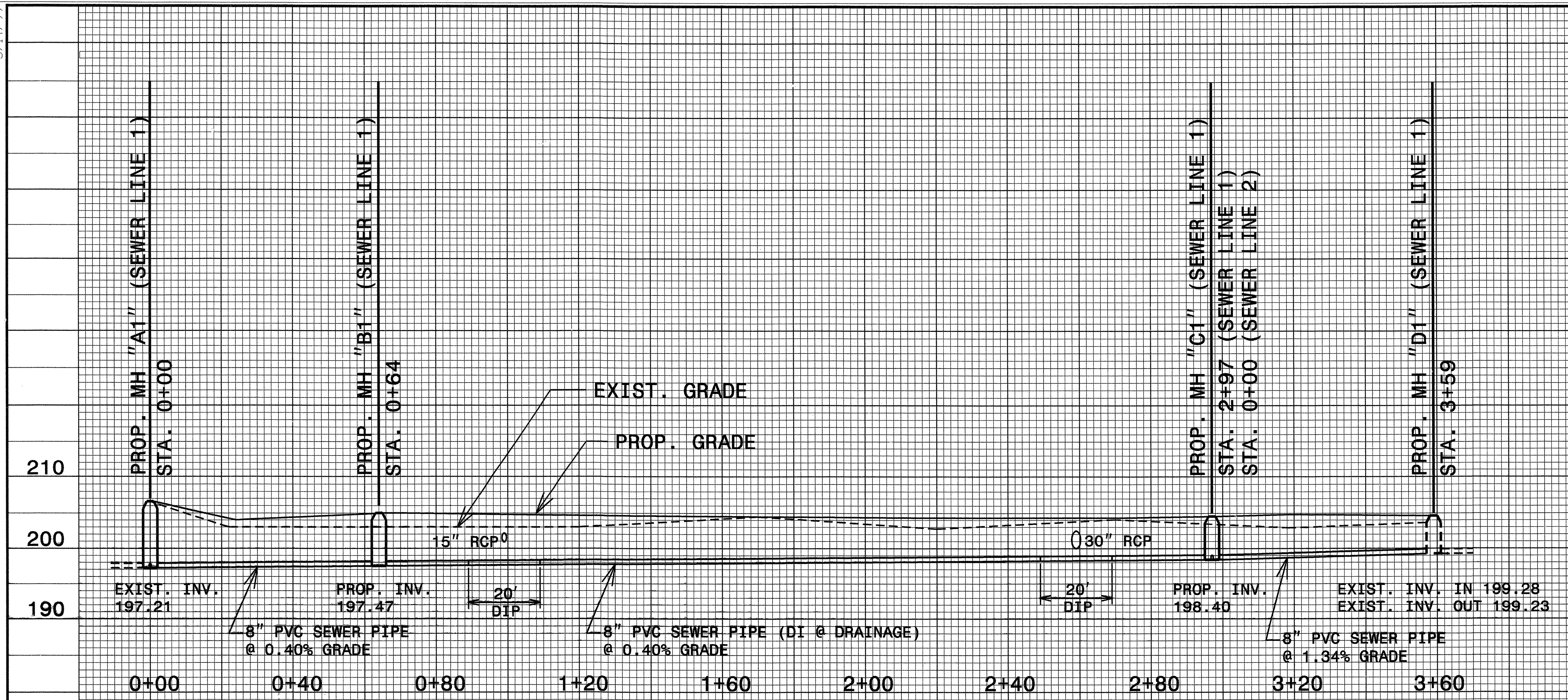
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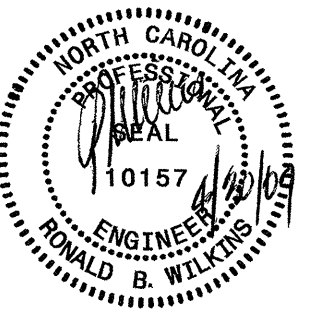
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UTILITY CONSTRUCTION

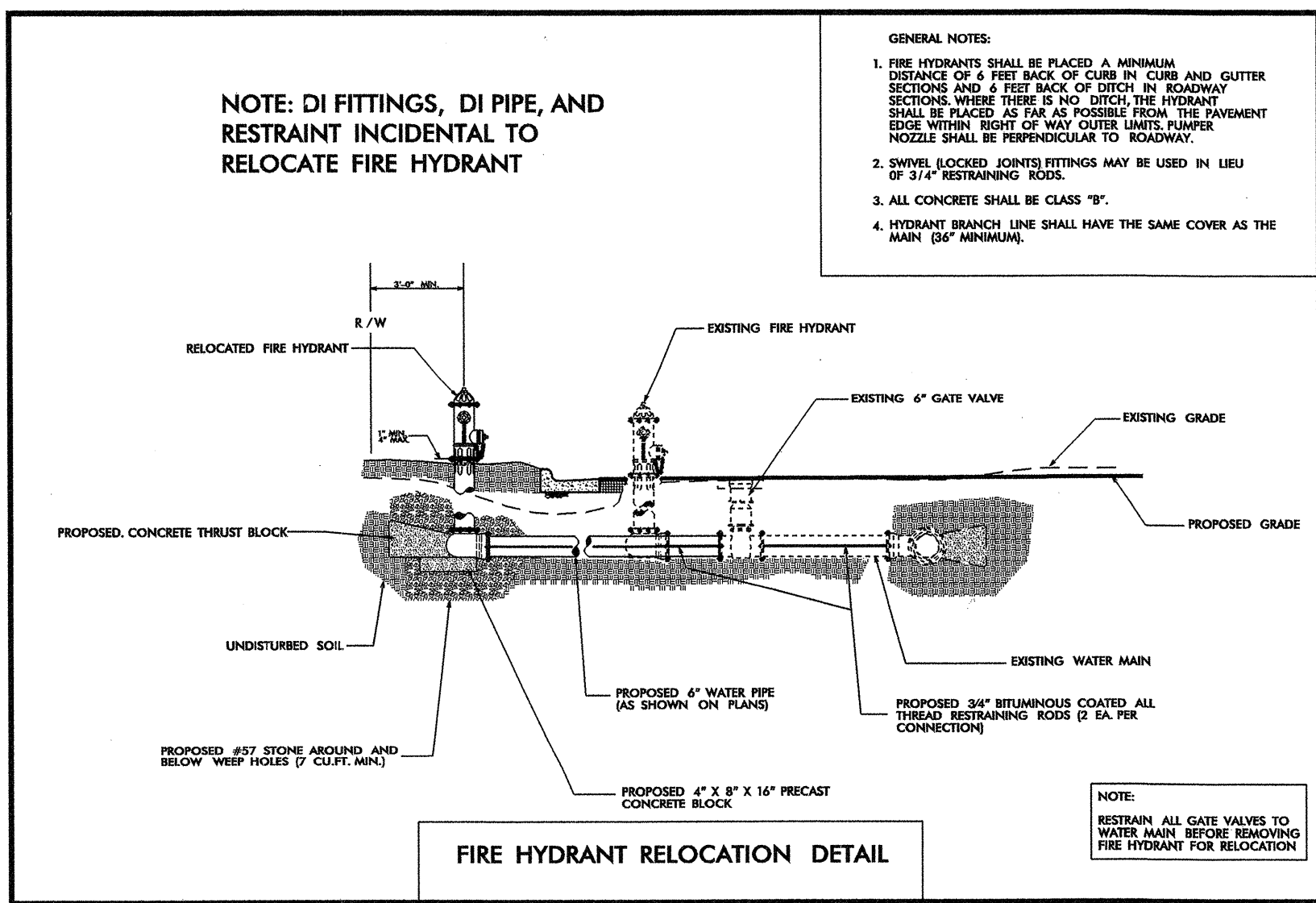
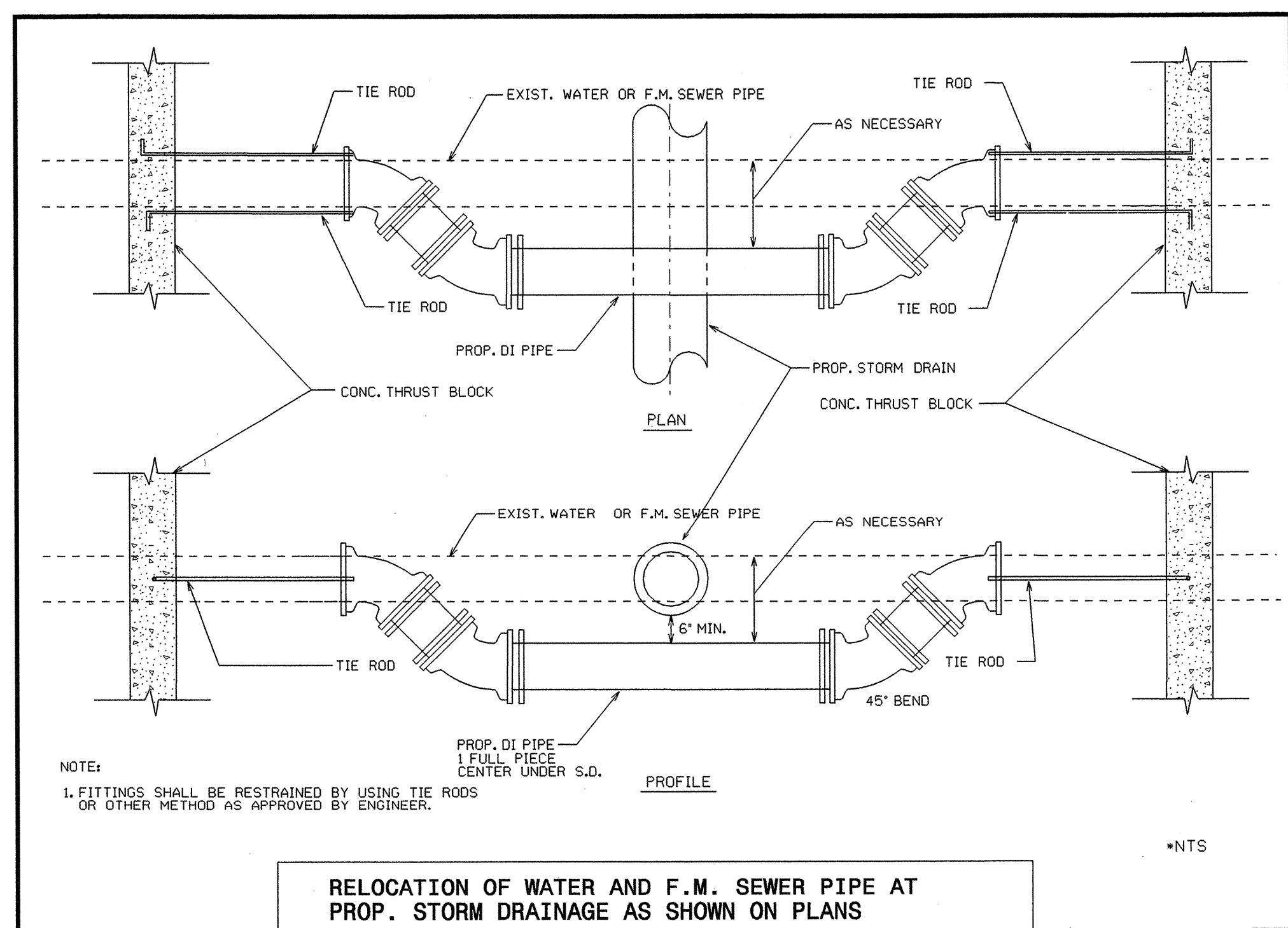
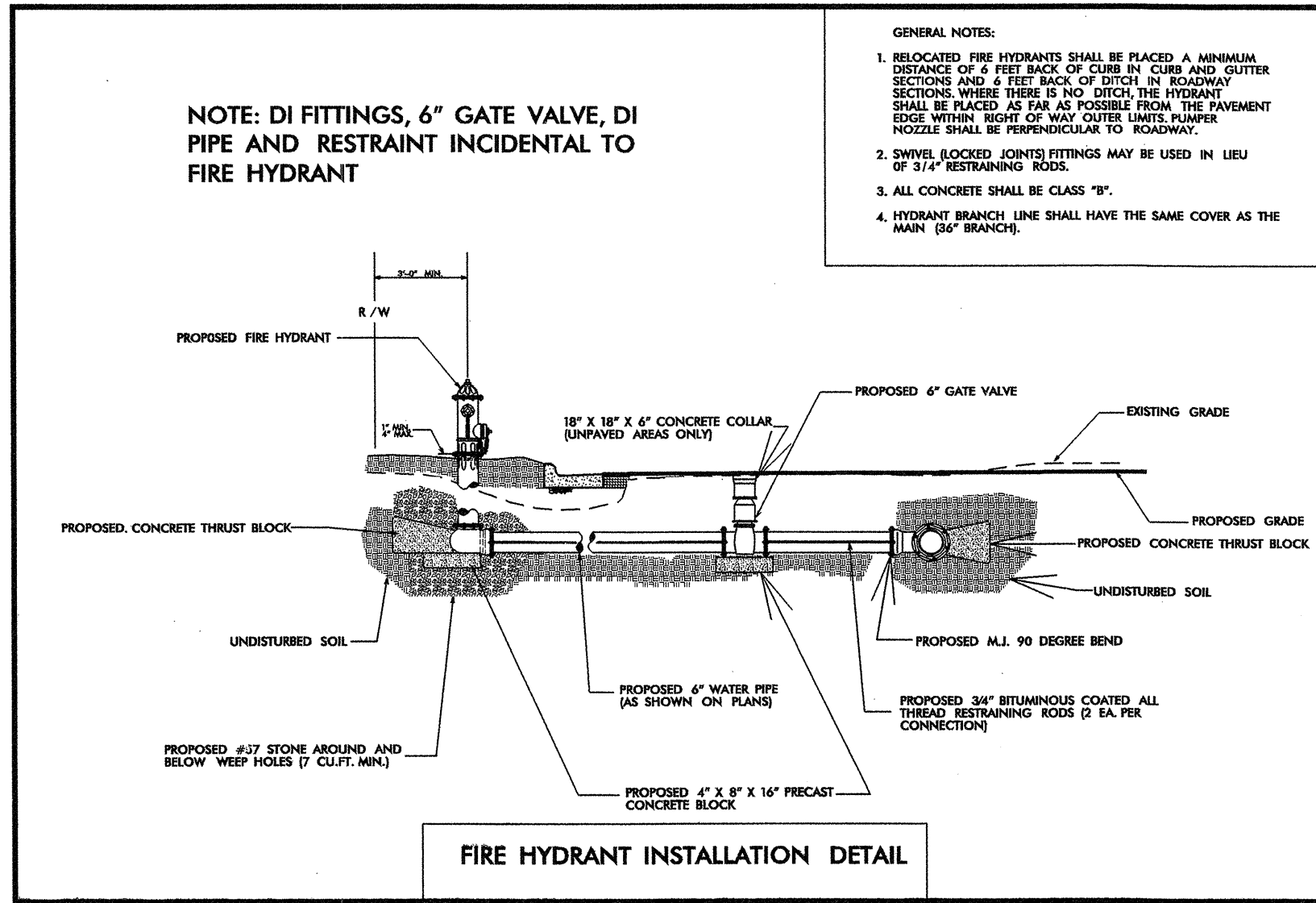
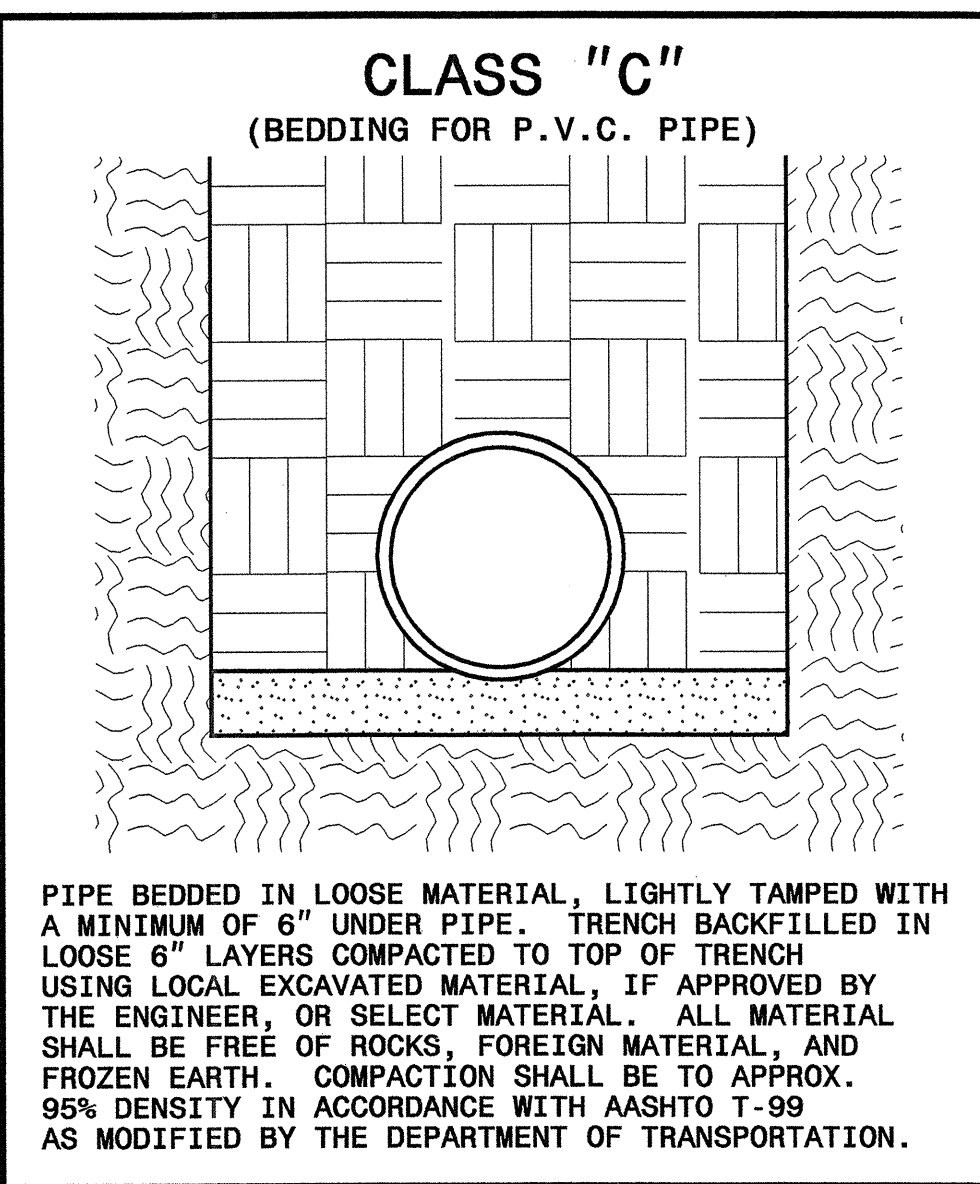
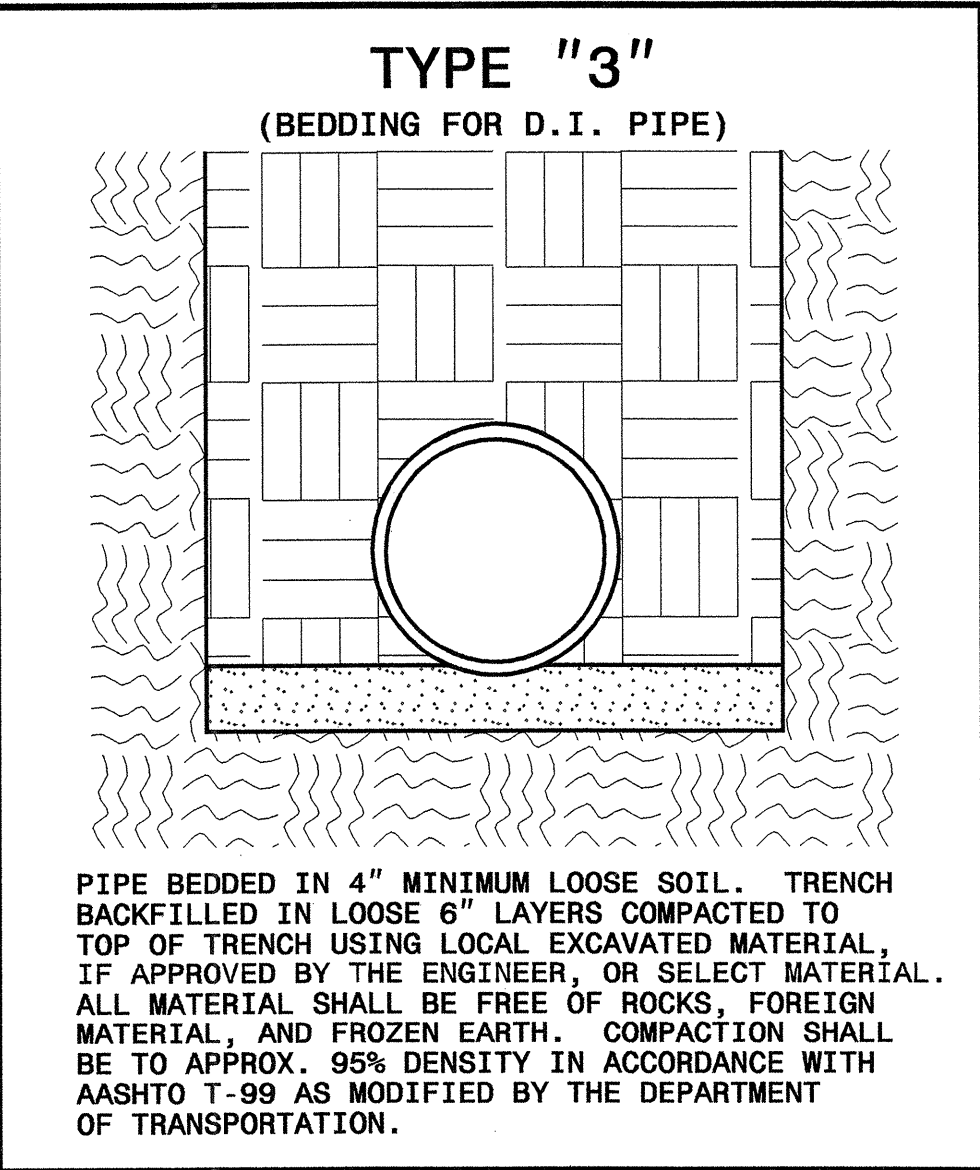
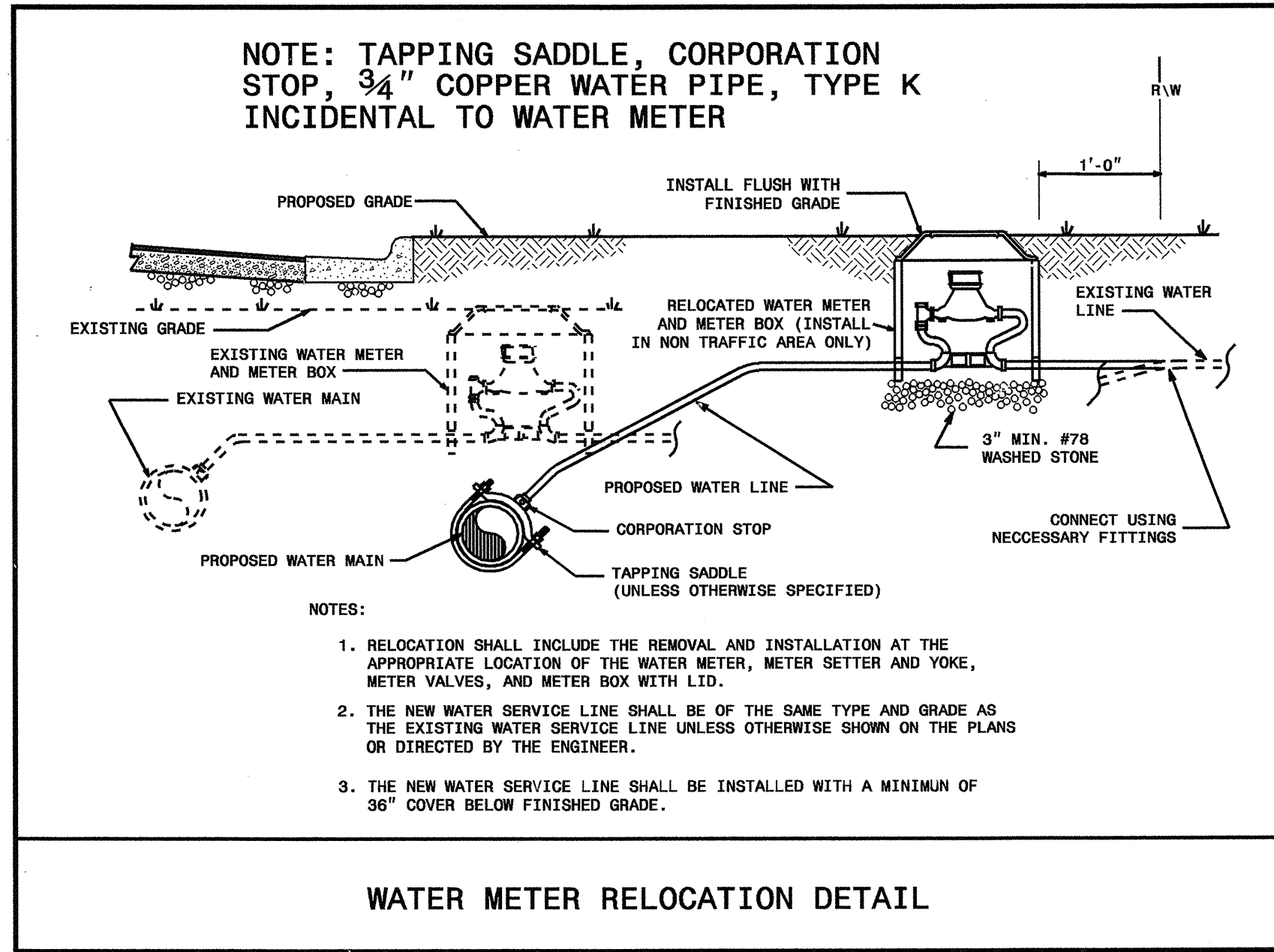
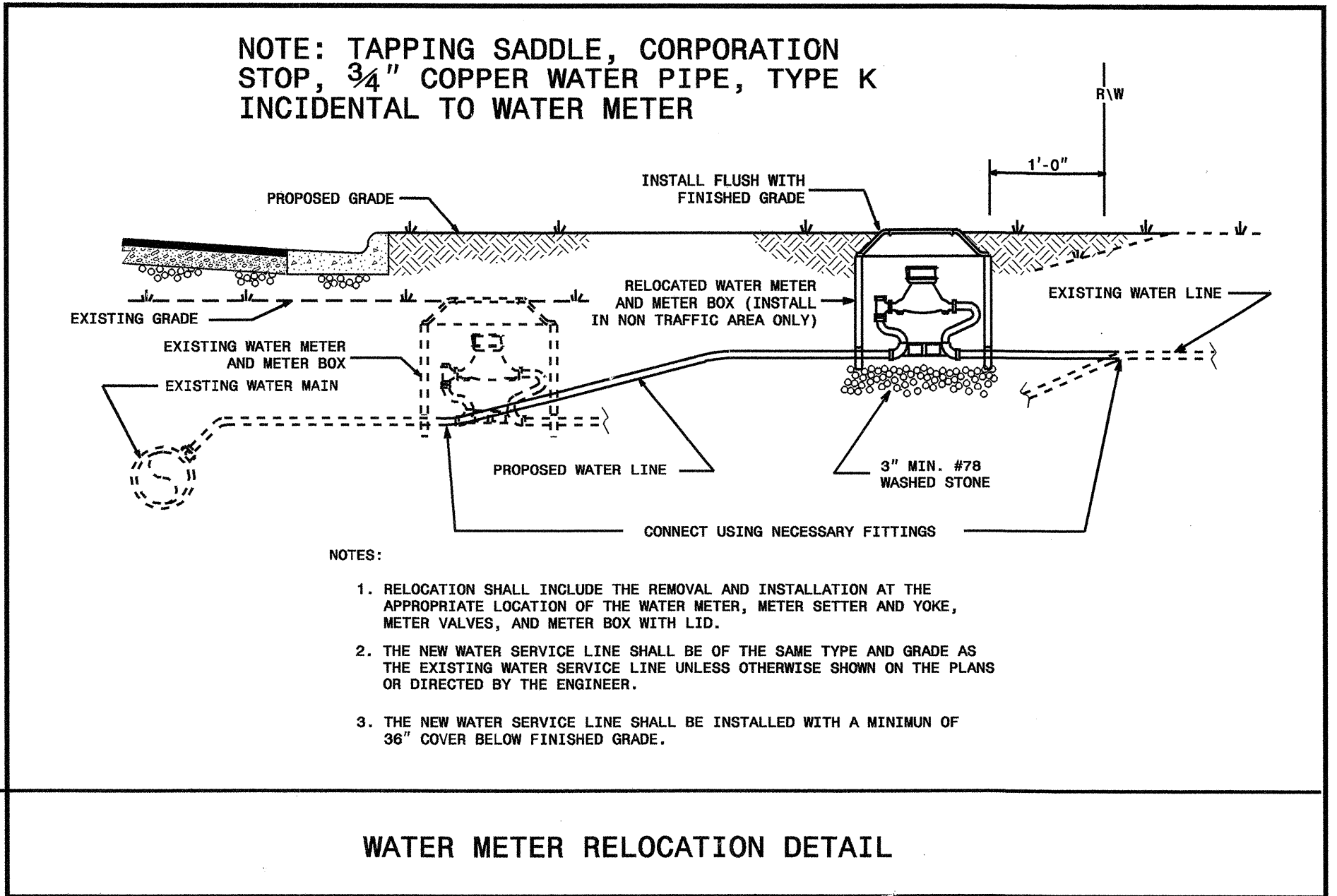
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15-MAR-2007 10:41 a.m. \\s:\projects\4071\4071-ut-uc9_psh.dgn





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		

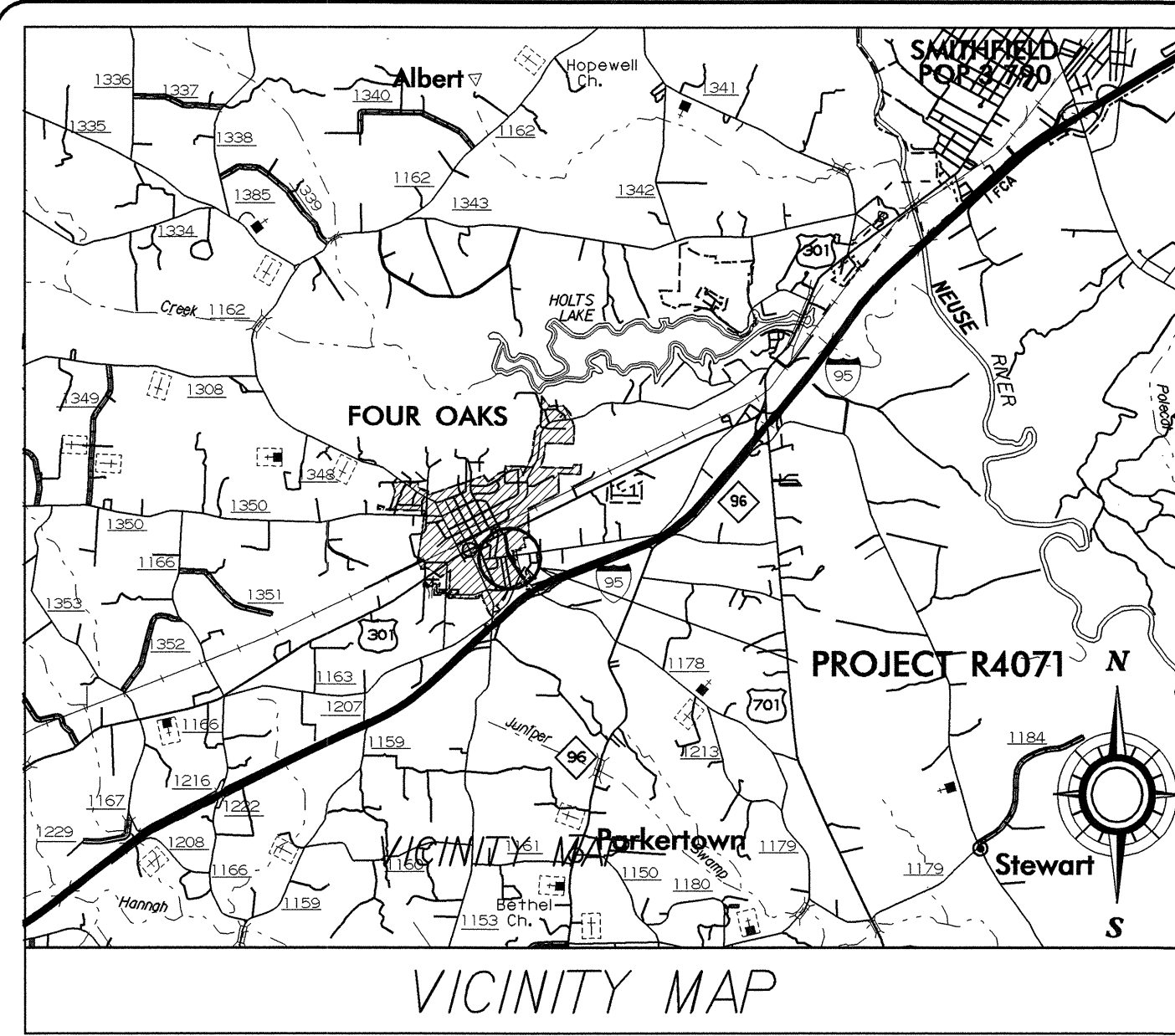
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
JOHNSTON COUNTY**

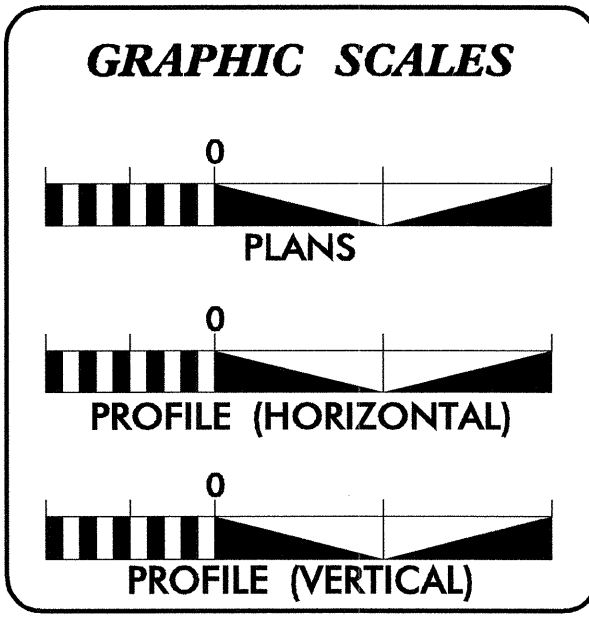
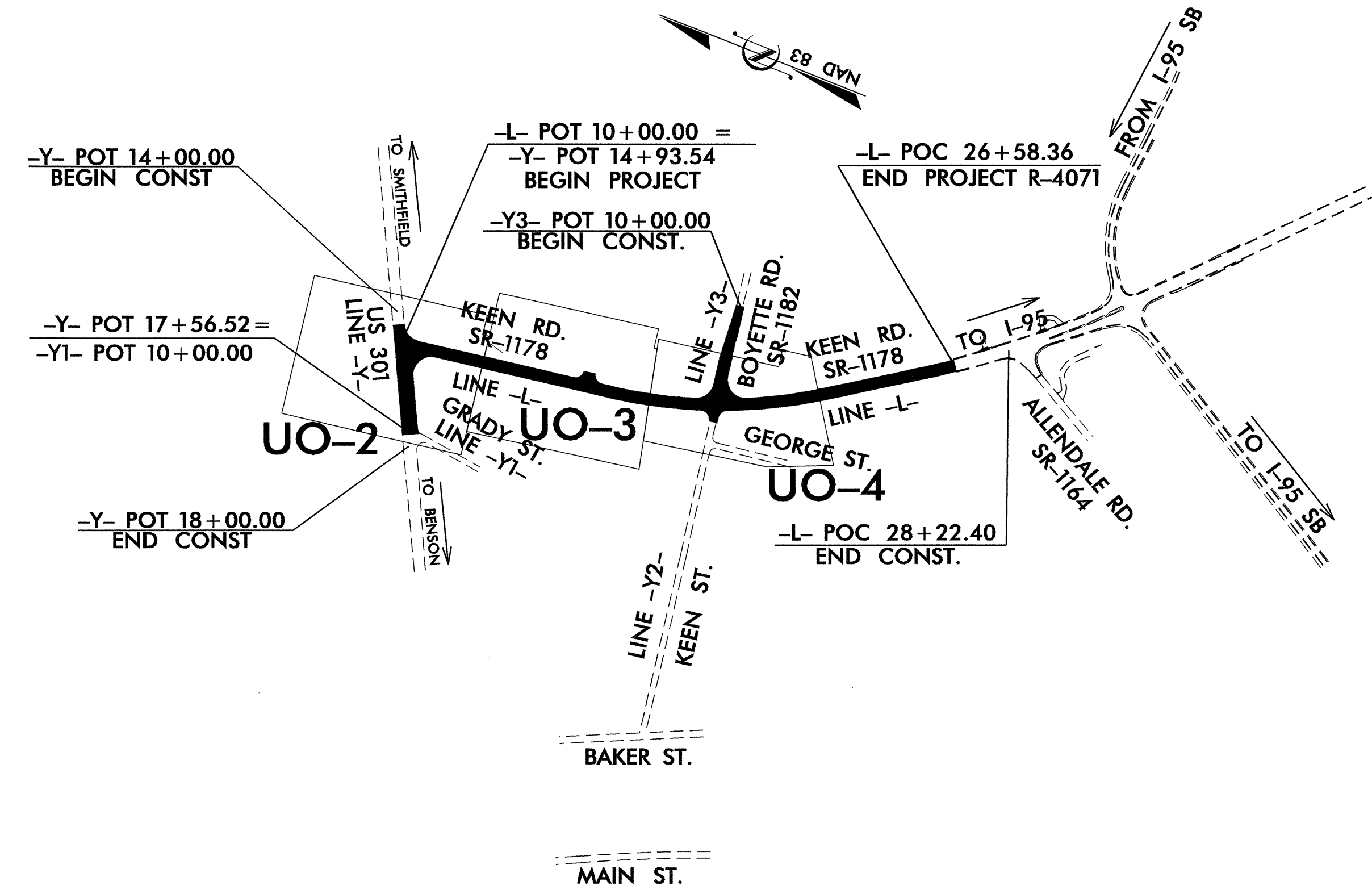
**LOCATION: SR 1178 (KEEN ROAD) FROM US-301 TO 164' NORTH WEST
OF SR 1164 (ALLENDALE ROAD)**

TYPE OF WORK: UTILITIES BY OTHERS



TIP PROJECT: R-4071

CONTRACT: C201297



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-4	UTILITIES BY OTHERS PLAN SHEETS

- WATER AND SEWER OWNERS ON PROJECT**
- (1) PROGRESS ENERGY - POWER DISTRIBUTION
 - (2) EMBARQ - TELEPHONE
 - (3) TIME WARNER CABLE - CATV

PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITY SECTION**

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

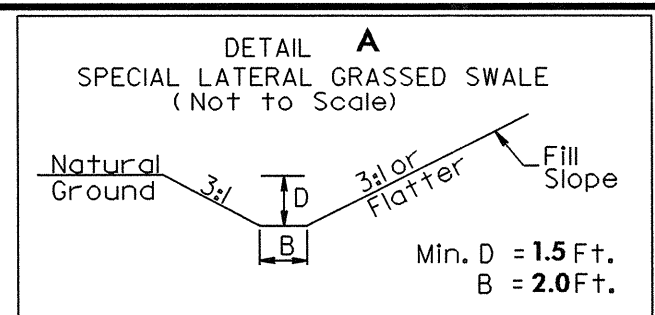
Roger Worthington, P.E. UTILITIES SECTION ENGINEER
R. B. WILKINS, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
MICHAEL R. BRIGHT UTILITIES PROJECT DESIGNER

08-MAY-2007 14:44
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5/14/99
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★ EXISTING SIGNAL TO BE UPGRADED
FOR -L- PROFILE, SEE SHEET NO. 13
FOR -Y- PROFILE, SEE SHEET NO. 15

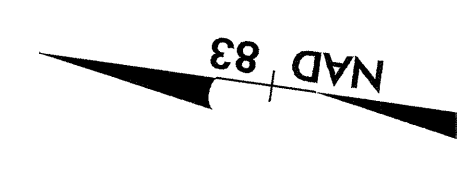
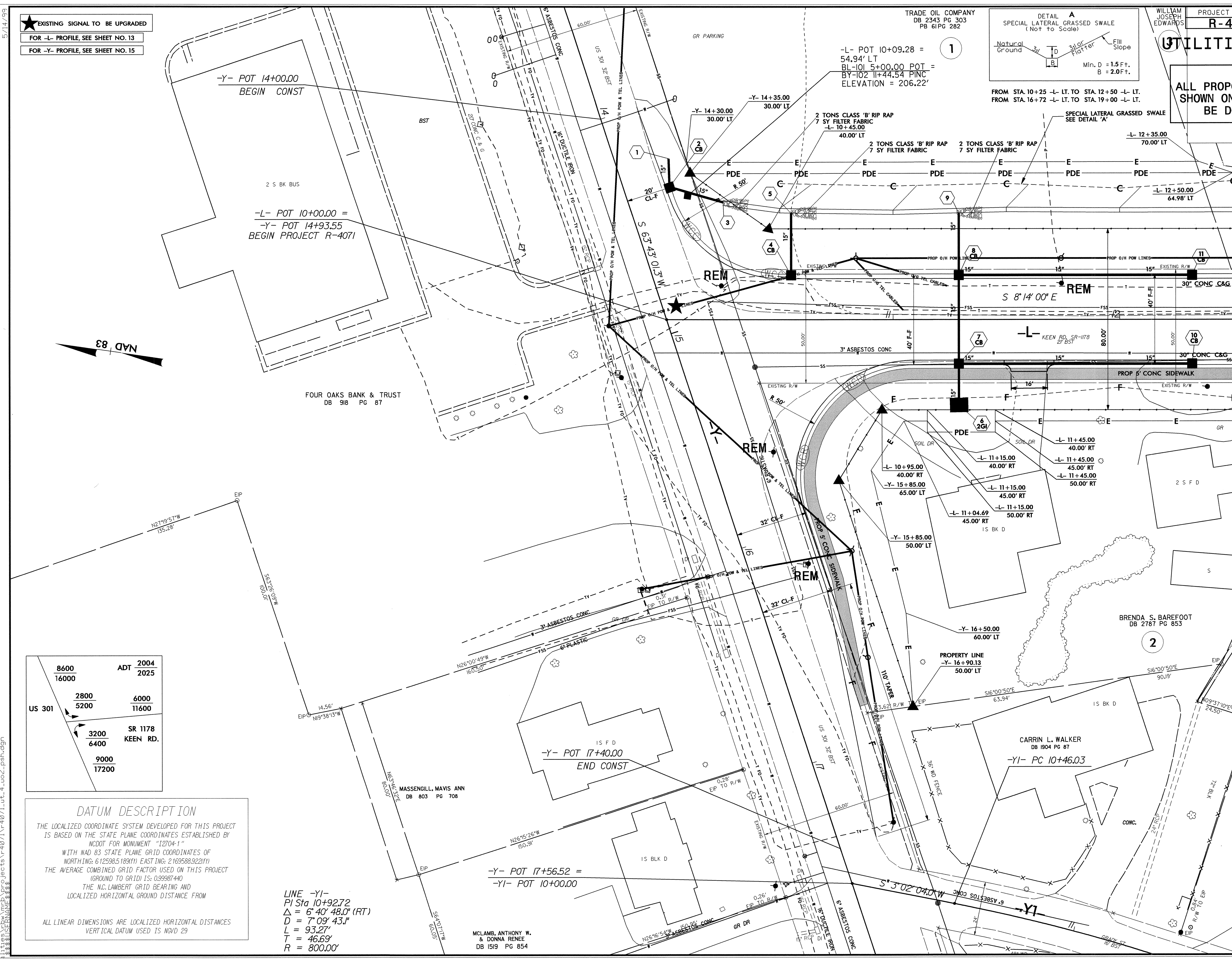
TRADE OIL COMPANY
DB 2343 PG 303
PB 61PG 282



WILLIAM JOSEPH EDWARDS
PROJECT REFERENCE NO. **R-4071** SHEET NO. **UO-2**

UTILITIES BY OTHERS

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



8600	ADT	2004
16000		2025
2800	6000	
5200	11600	
3200	SR 1178	
6400	KEEN RD.	
9000		
17200		

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "12704-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 612598.5189(Y) EASTING: 2169588.922(X) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987440 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

LINE -Y1-
 PI Sta 10+92.72
 $\Delta = 6' 40'' 48.0''$ (RT)
 $D = 7' 09'' 43.1''$
 $L = 93.27'$
 $T = 46.69'$
 $R = 800.00'$

MCLAMB, ANTHONY W. & DONNA RENEE
 DB 1519 PG 854

MATCHLINE -L- 12+50.00 SEE SHEET UO-3

5/14/09

WILLIAM JOSEPH EDWARDS
DB 1490 PG 475

HORACE TIMOTHY BARBOUR
DB 2444 PG 919

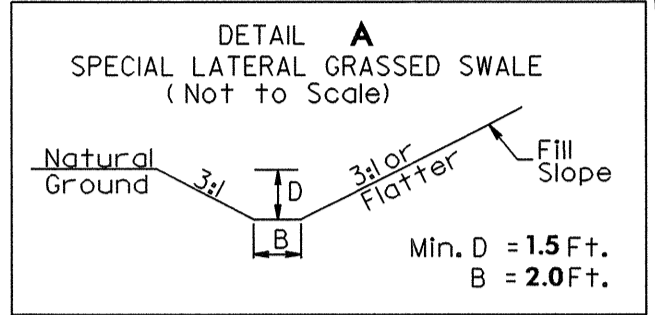
FOUR OAKS VILLAGE
LIMITED PARTNERSHIP
DB 1232 PG 368

MARGARET C. SUTTON, ET AL
DB 1509 PG 844

PROJECT REFERENCE NO. SHEET NO.
R-4071 **UO-3**

UTILITIES BY OTHERS

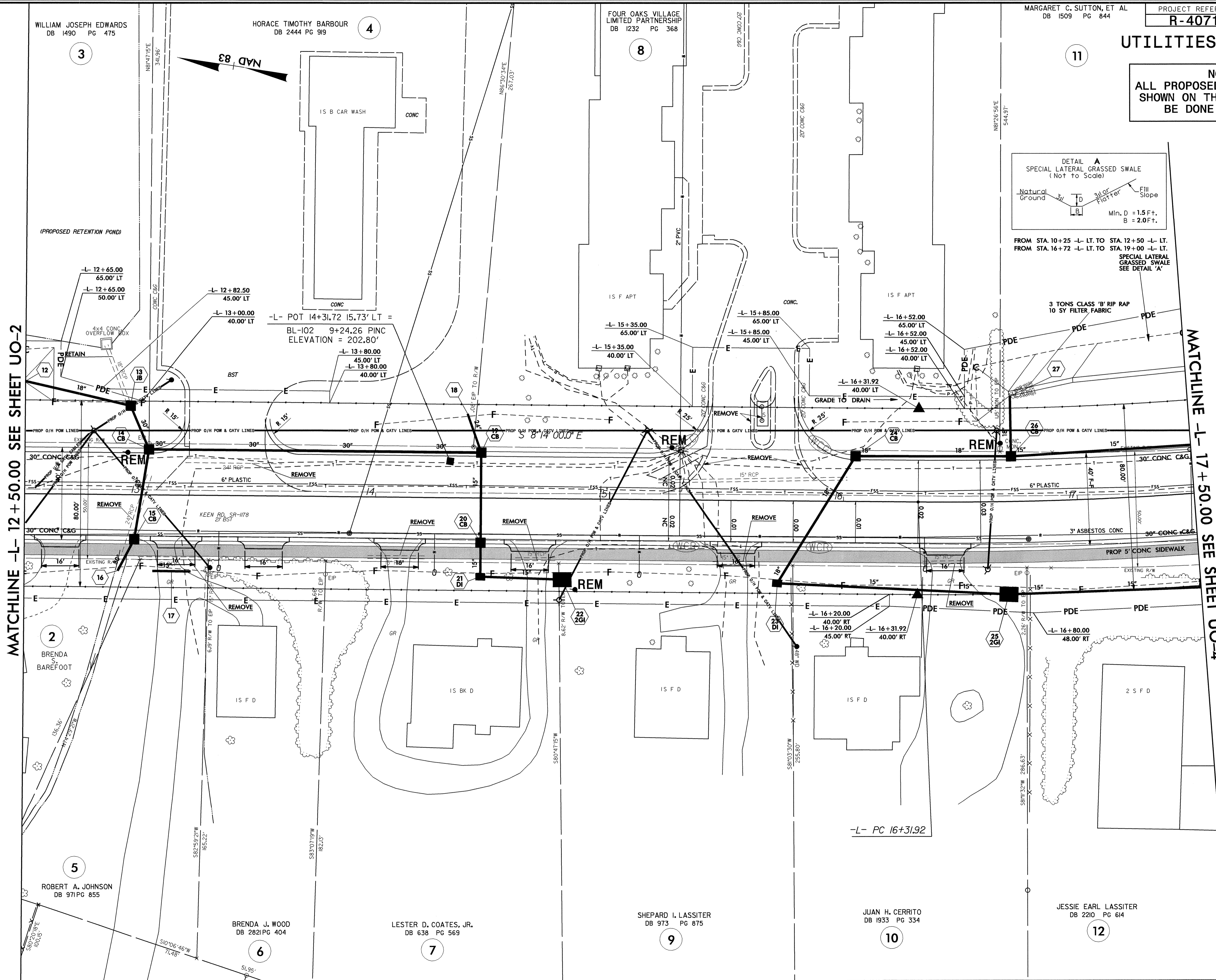
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



FROM STA. 10+25 -L- LT. TO STA. 12+50 -L- LT.
FROM STA. 16+72 -L- LT. TO STA. 19+00 -L- LT.
SPECIAL LATERAL GRASSED SWALE
SEE DETAIL 'A'

MATCHLINE -L- 12+50.00 SEE SHEET UO-2

MATCHLINE -L- 17+50.00 SEE SHEET UO-4



2
BRENDA
BAREFOOT

5
ROBERT A. JOHNSON
DB 971 PG 855

6
BRENDA J. WOOD
DB 2821 PG 404

7
LESTER D. COATES, JR.
DB 638 PG 569

9
SHEPARD I. LASSITER
DB 973 PG 875

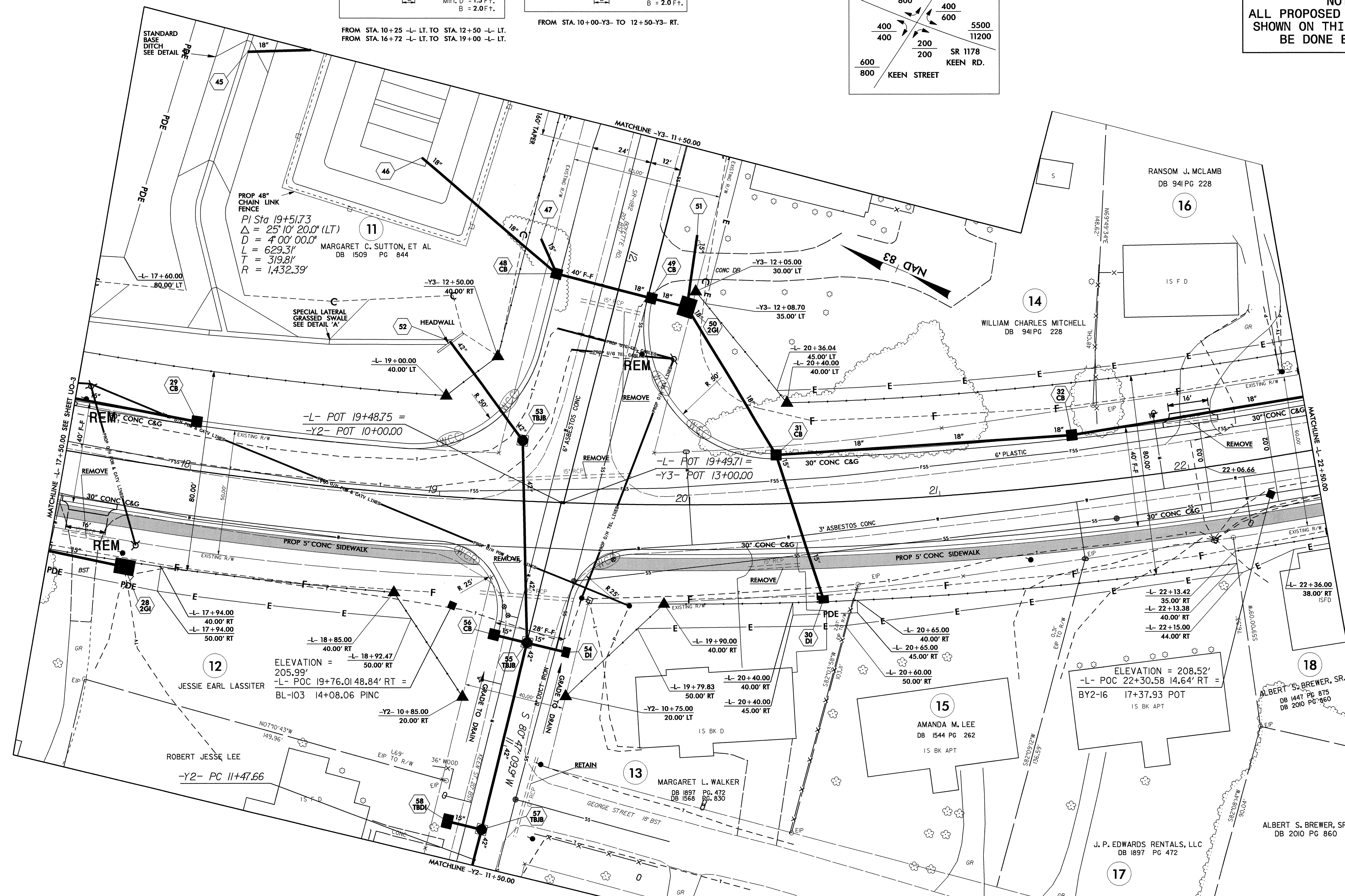
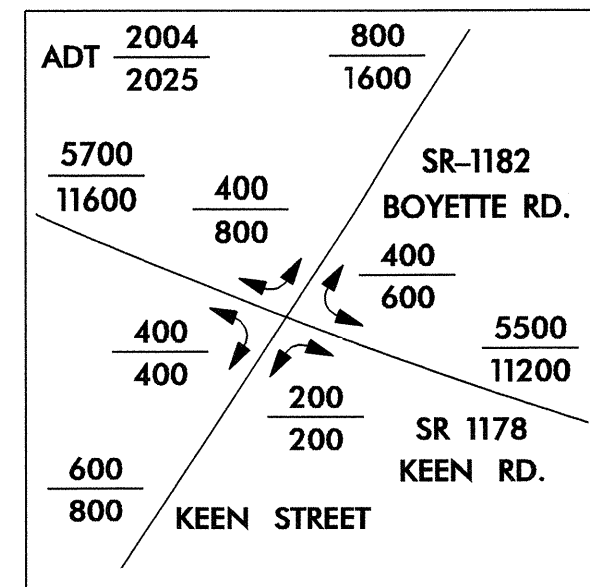
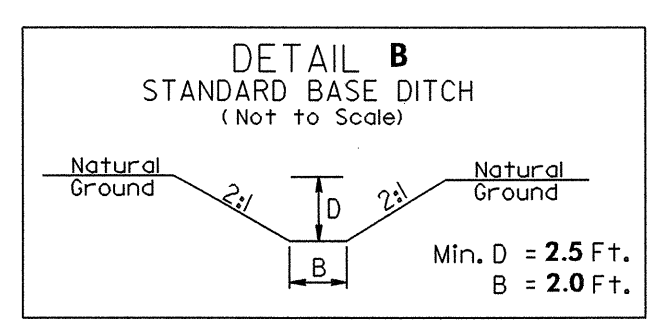
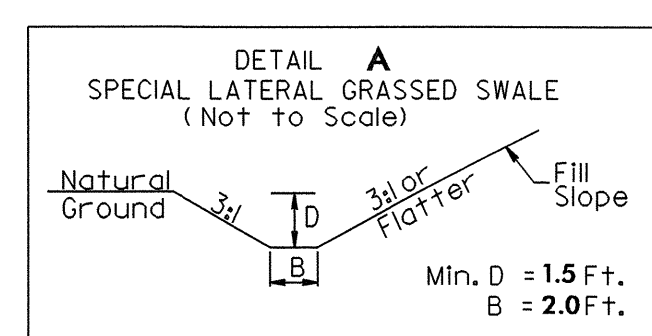
10
JUAN H. CERRITO
DB 1933 PG 334

12
JESSIE EARL LASSITER
DB 2210 PG 614

08-MAY-2007 14:45
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UTILITIES BY OTHERS

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



PROP 48" CHAIN LINK FENCE
 $PI Sta 19+51.73$
 $\Delta = 25' 10" 20.0' (LT)$
 $D = 4' 00" 00.0'$
 $L = 629.3'$
 $T = 319.8'$
 $R = 1,432.39'$
 MARGARET C. SUTTON, ET AL
 DB 1509 PG 844

$-L- POT 19+48.75 =$
 $-Y2- POT 10+00.00$

$-L- POT 19+49.71 =$
 $-Y3- POT 13+00.00$

ELEVATION = 205.99'
 $-L- POC 19+76.01 48.84' RT =$
 BL-103 14+08.06 PINC

ELEVATION = 208.52'
 $-L- POC 22+30.58 14.64' RT =$
 BY2-16 17+37.93 POT

5/14/99
 08-MAY-2007 14:45
 3 utl\utilities\DWG\Projects\R-4071\UO-4\ut_6.up4_psh.dgn
 USER:RSM