

TIP PROJECT: R-2414B


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

| | |
|------------|-----------|
| T.I.P. NO. | SHEET NO. |
| R-2414B | UC-1 |

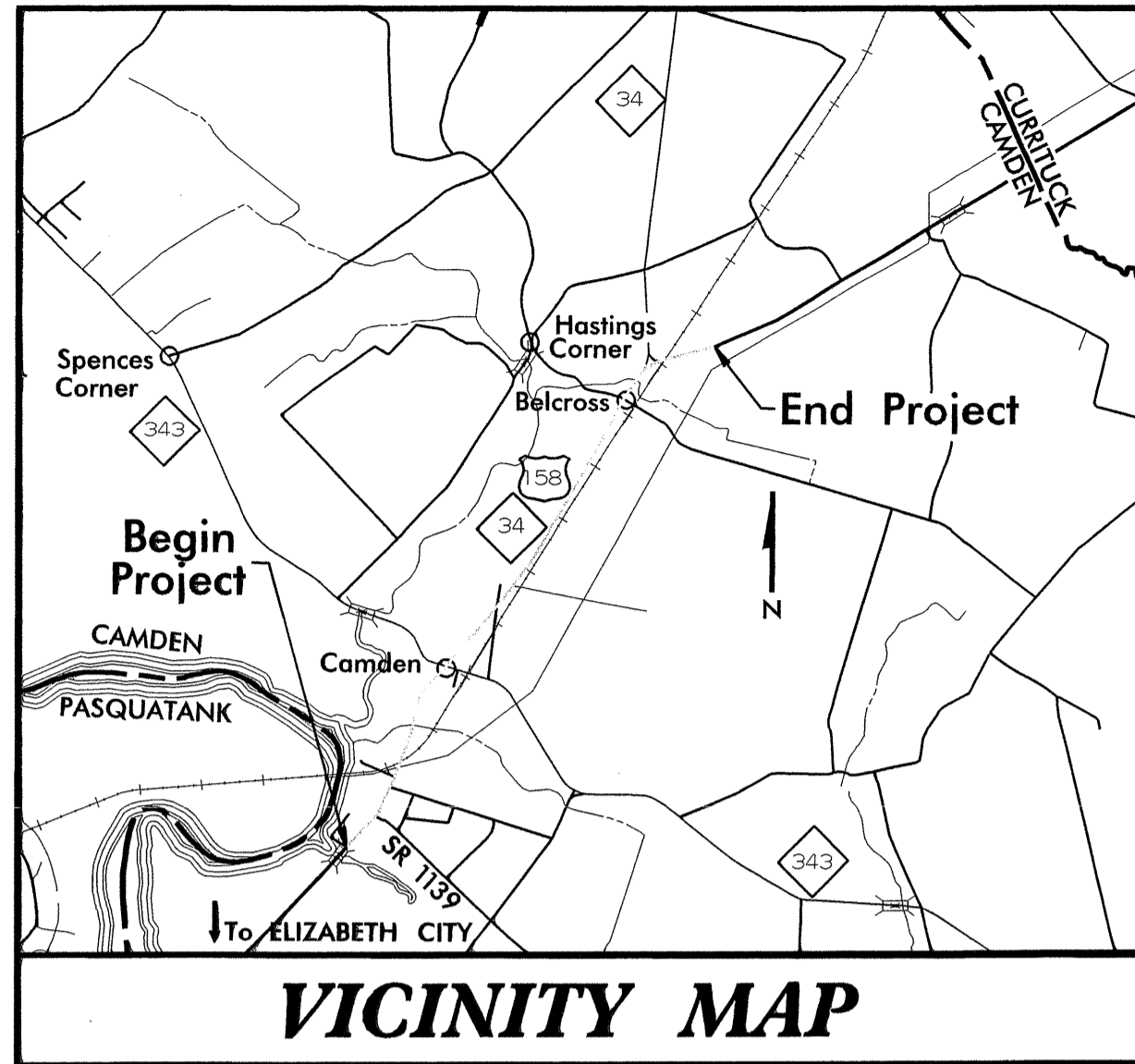
UTILITY CONSTRUCTION PLANS CAMDEN COUNTY

LOCATION: US 158 - FROM NORTH OF SR 1257 (HAVENWOOD DRIVE) TO EAST OF NC 34 IN BELCROSS

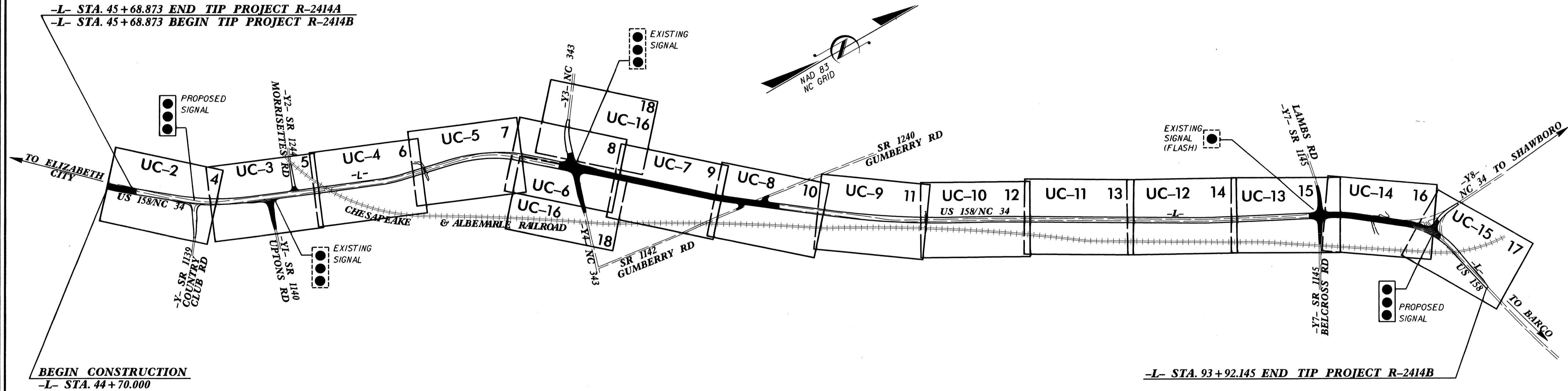
TYPE OF WORK: UTILITIES RELOCATION



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



-L- STA. 45+68.873 END TIP PROJECT R-2414A
-L- STA. 45+68.873 BEGIN TIP PROJECT R-2414B



BEGIN CONSTRUCTION
-L- STA. 44+70.000

-L- STA. 93+92.145 END TIP PROJECT R-2414B

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

NOTE:
THE PROPOSED TRENCHLESS WATER MAIN AND/OR FORCE MAIN INSTALLATIONS SHOWN ON SHEETS UC-4, UC-5, UC-9, UC-10, AND UC-14 SHALL BE PERFORMED OUTSIDE THE PROPOSED SOIL MIXING AREAS, OR AS DIRECTED BY THE ENGINEER.



PREPARED IN THE OFFICE OF:
DAVIS-MARTIN-POWELL AND ASSOCIATES, INC.

6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE (336) 886-4821
FAX (336) 886-4458

Randy McNeill, P.E. UTILITIES PROJECT MANAGER
Andy Larrick, P.E. UTILITIES PROJECT ENGINEER
Andy Larrick, P.E. UTILITIES PROJECT DESIGNER

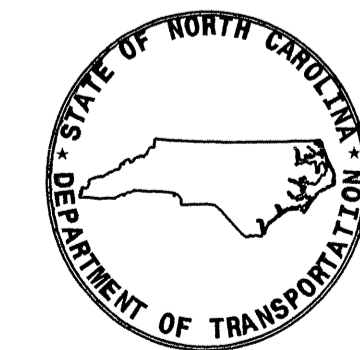
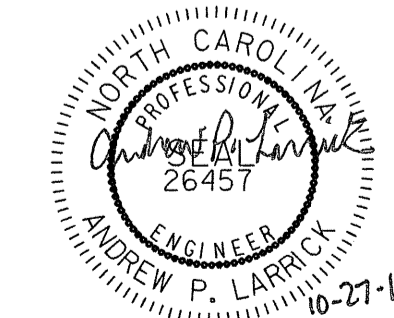
INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------------|----------------------------------|
| UC-1 | TITLE SHEET |
| UC-2 THRU UC-16 | UTILITY CONSTRUCTION PLAN SHEETS |
| UC-17 | PROFILE SHEET |
| UC-18 | DETAIL SHEET |

WATER & SEWER OWNERS ON PROJECT

WATER - CAMDEN COUNTY
SEWER - CAMDEN COUNTY

SEAL



DIVISION OF HIGHWAYS
UTILITIES ENGINEERING SECTION

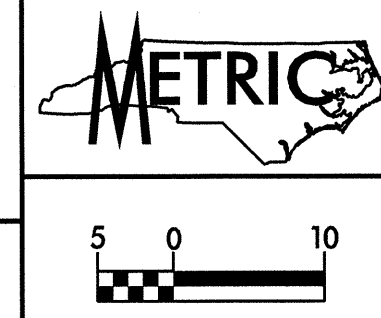
1591 MAIL SERVICES CENTER
RALEIGH, NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Kifah Kamil UTILITIES PROJECT DESIGNER

REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4921 FAX: (336) 886-4458



| | | | |
|-----------------------|---------|--|------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-2 |
| DESIGNED BY: | DMP | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 UTILITY CONSTRUCTION PLANS ONLY | |
| DRAWN BY: | DMP | | |
| CHECKED BY: | DMP | | |
| APPROVED BY: | | | |
| REVISED: | | | |

45+00

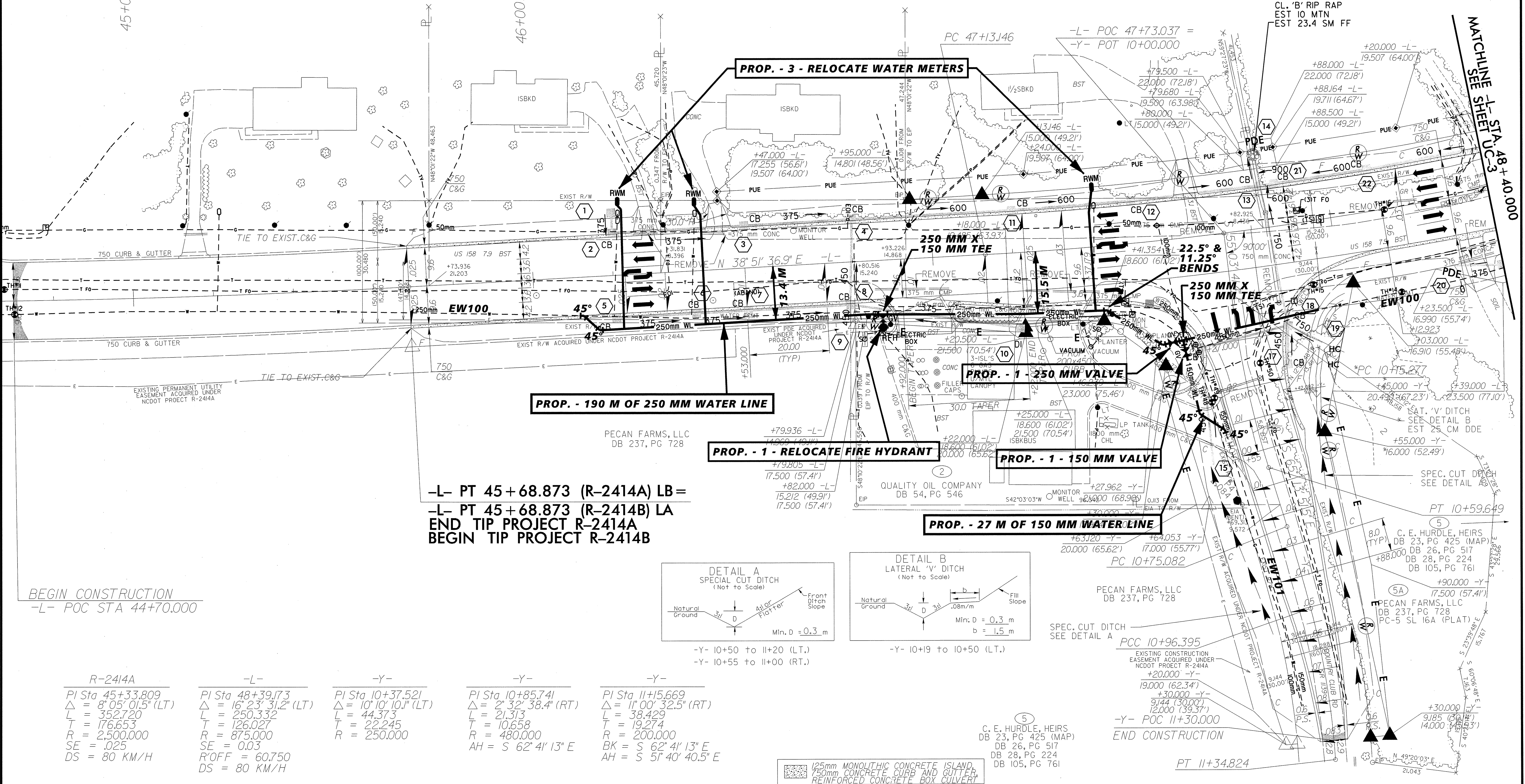
ROBERT F. MASSIELLO, ET UX
DB III, PG 705
DB 46, PG 260 (MAP)

ROSALYN J. FAIRCLOTH
DB 80, PG 392
DB 46, PG 260 (MAP)

JAMIE H. WOOTON, ET AL
DB 106, PG 689
DB 46, PG 260 (MAP)

GEORGE T. GRIFFIN, ET UX
DB 52, PG 687
DB 46, PG 260 (MAP)

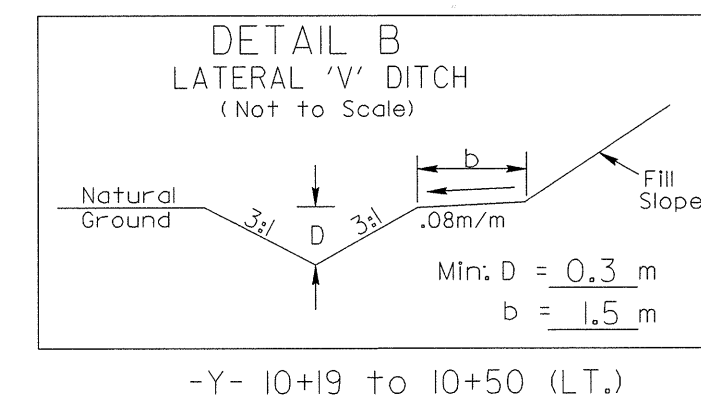
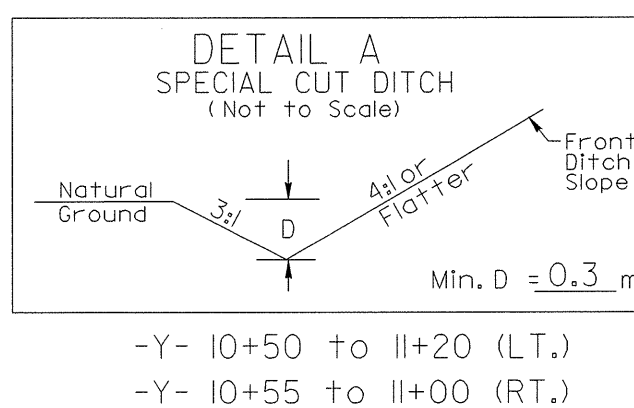
O.C. ABBOTT
DB 54, PG 429



-L- PT 45+68.873 (R-2414A) LB=
 -L- PT 45+68.873 (R-2414B) LA
 END TIP PROJECT R-2414A
 BEGIN TIP PROJECT R-2414B

BEGIN CONSTRUCTION
 -L- POC STA 44+70.000

END CONSTRUCTION
 -Y- POC 11+30.000
 PT 11+34.824



| R-2414A | -L- | -Y- | -Y- | -Y- |
|---------------------|----------------------|----------------------|----------------------|----------------------|
| PI Sta 45+33.809 | PI Sta 48+39.173 | PI Sta 10+37.521 | PI Sta 10+85.741 | PI Sta 11+15.669 |
| Δ = 8°05'01.5" (LT) | Δ = 16°23'31.2" (LT) | Δ = 10°10'10.1" (LT) | Δ = 2°32'38.4" (RT) | Δ = 11°00'32.5" (RT) |
| L = 352.720 | L = 250.332 | L = 44.373 | L = 21.313 | L = 38.429 |
| T = 176.653 | T = 126.027 | T = 22.245 | T = 10.658 | T = 19.274 |
| R = 2,500.000 | R = 875.000 | R = 250.000 | R = 480.000 | R = 200.000 |
| SE = 0.25 | ROFF = 60.750 | | AH = S 62°41'13" E | BK = S 62°41'13" E |
| DS = 80 KM/H | DS = 80 KM/H | | AH = S 51°40'40.5" E | AH = S 51°40'40.5" E |

125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

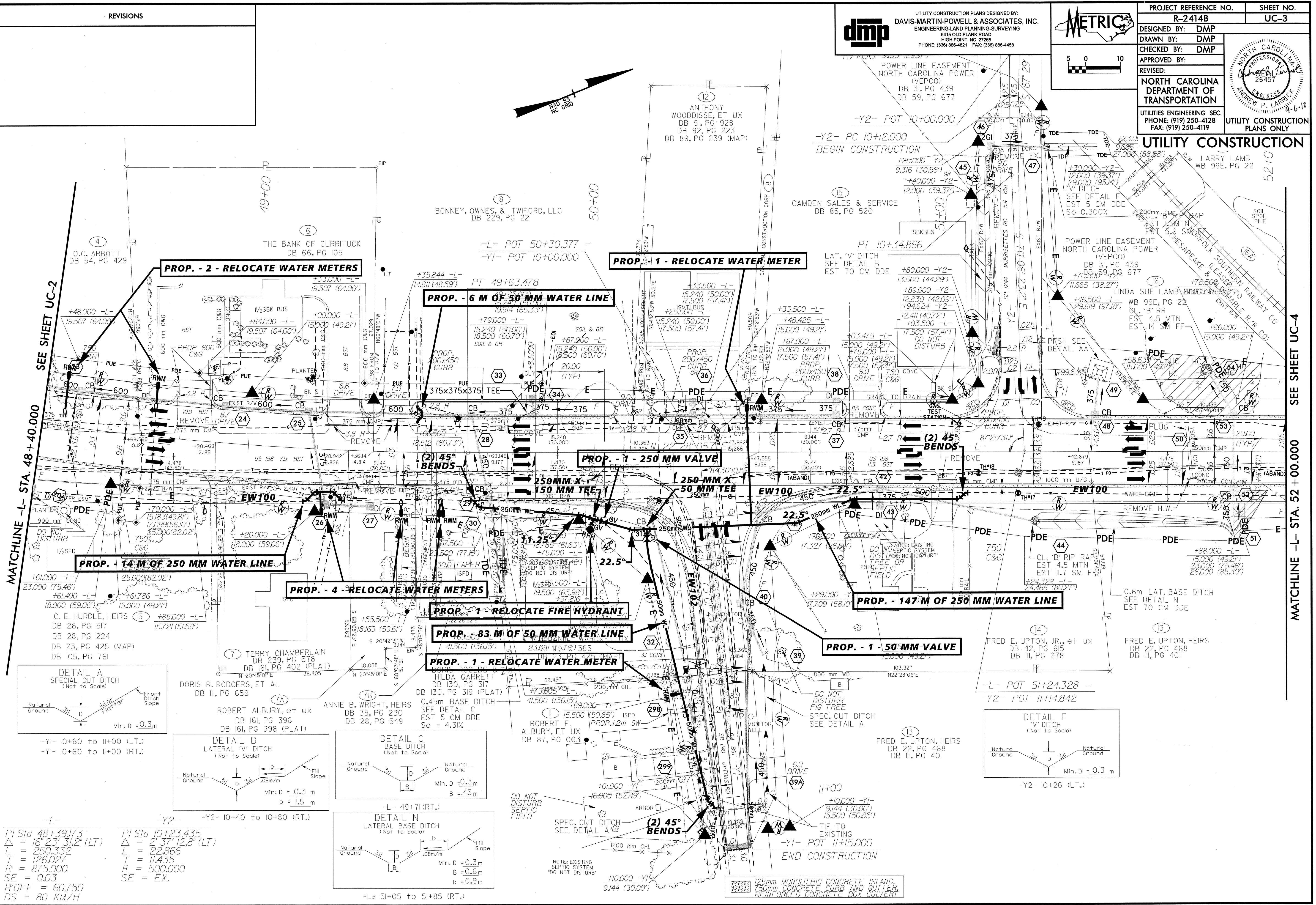
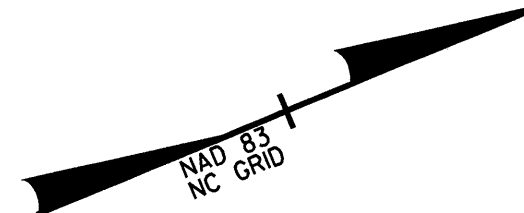
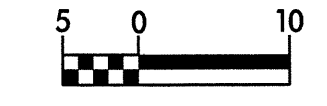
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4521 FAX: (336) 886-4458



| | | | |
|---|---------|---------------------------------|------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-3 |
| DESIGNED BY: | DMP | | |
| CHECKED BY: | DMP | | |
| APPROVED BY: | | | |
| REVISED: | | | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | | | |
| UTILITIES ENGINEERING SEC. | | UTILITY CONSTRUCTION PLANS ONLY | |



PROP. - 14 M OF 250 MM WATER LINE

PROP. - 2 - RELOCATE WATER METERS

PROP. - 1 - RELOCATE WATER METER

PROP. - 6 M OF 50 MM WATER LINE

PROP. - 1 - 250 MM VALVE

PROP. - 4 - RELOCATE WATER METERS

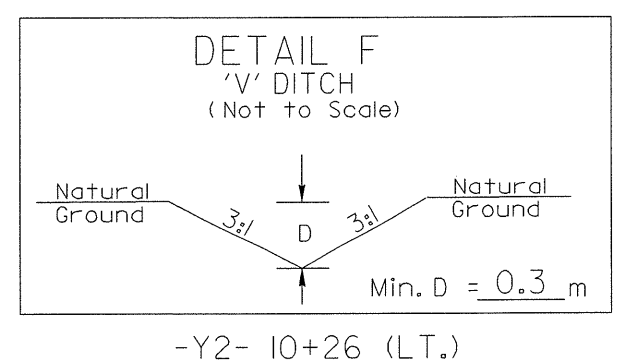
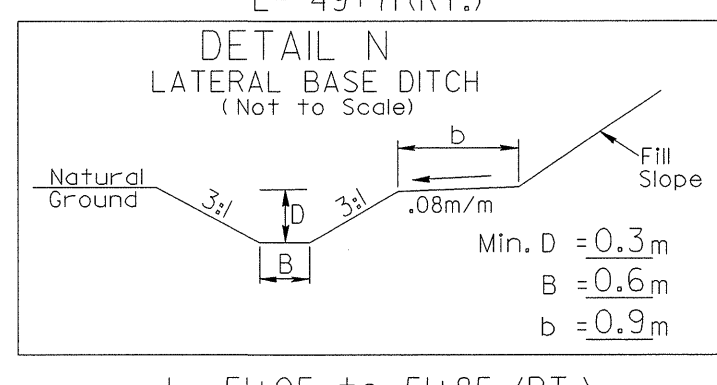
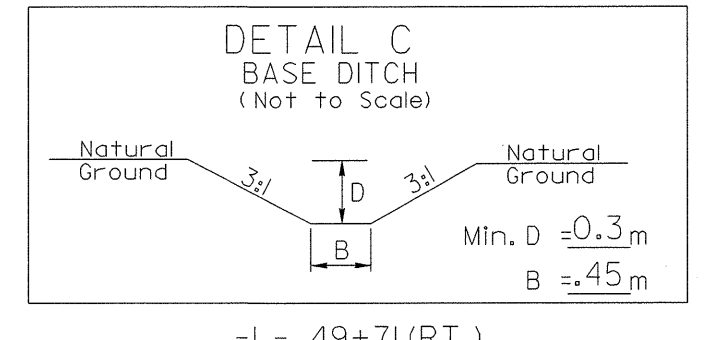
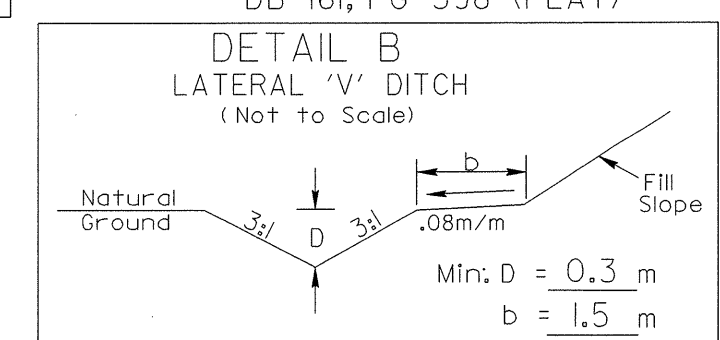
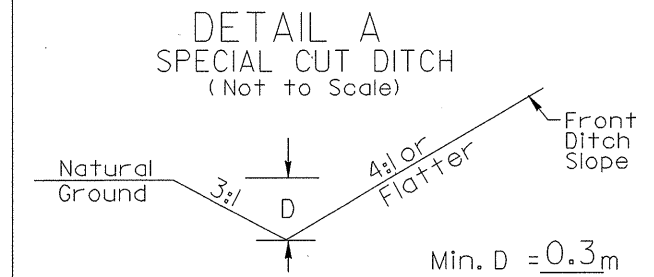
PROP. - 1 - RELOCATE FIRE HYDRANT

PROP. - 83 M OF 50 MM WATER LINE

PROP. - 1 - RELOCATE WATER METER

PROP. - 1 - 50 MM VALVE

PROP. - 147 M OF 250 MM WATER LINE



-L-
PI Sta 48+39.173
Δ = 16° 23' 31.2" (LT)
L = 250.332
T = 126.027
R = 875.000
SE = 0.03
R'OFF = 60.750
DS = 80 KM/H

-Y2-
PI Sta 10+23.435
Δ = 2° 37' 12.8" (LT)
L = 22.866
T = 11.435
R = 500.000
SE = EX.

NOTE: EXISTING SEPTIC SYSTEM 'DO NOT DISTURB'

125mm MONOLITHIC CONCRETE ISLAND
750mm CONCRETE CURB AND GUTTER
REINFORCED CONCRETE BOX CULVERT

MATCHLINE -L- STA. 48 + 40.000
SEE SHEET UC-2

MATCHLINE -L- STA. 52 + 00.000
SEE SHEET UC-4

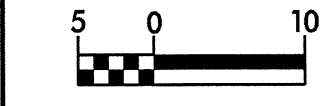
0420

5220

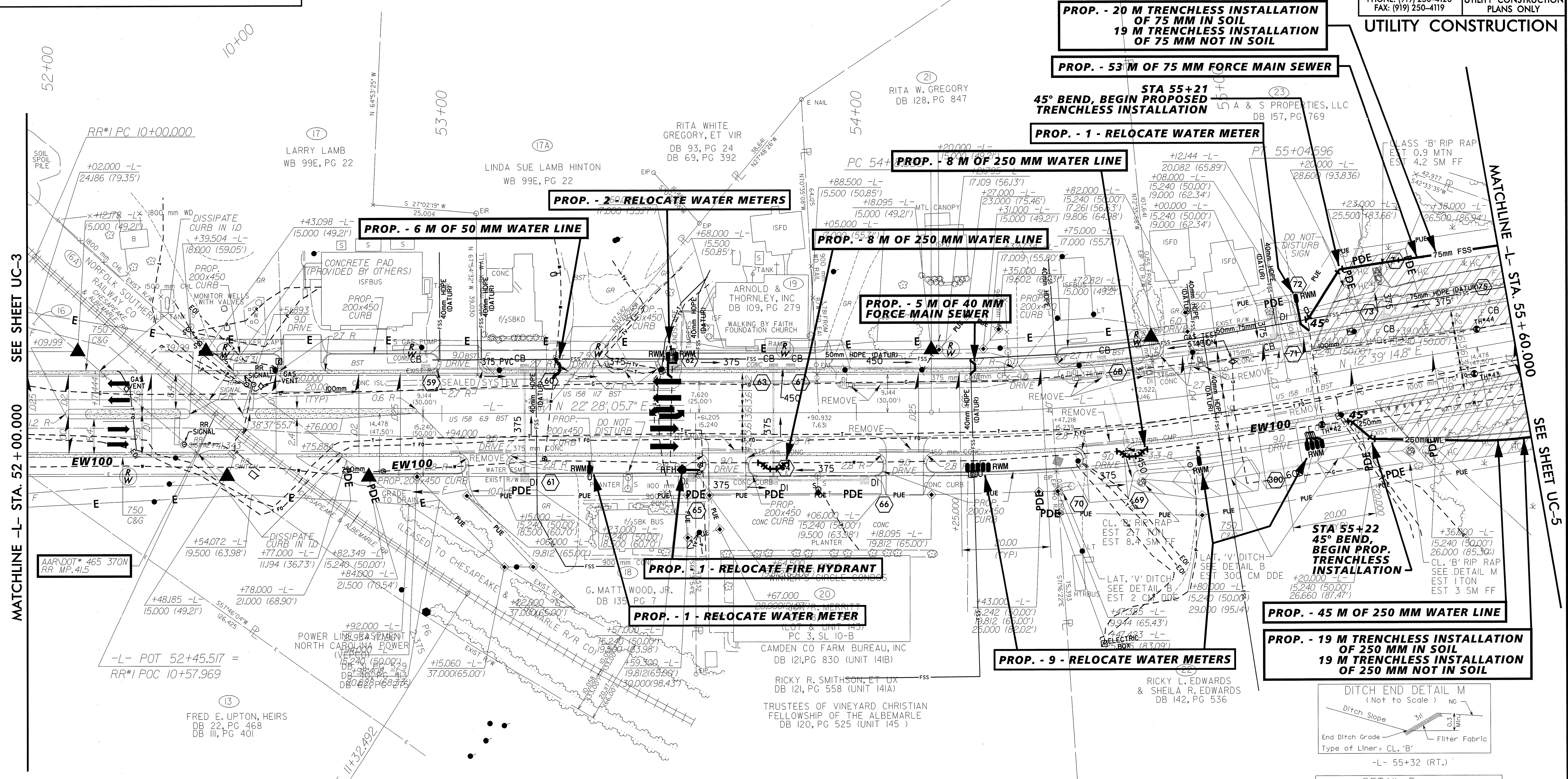
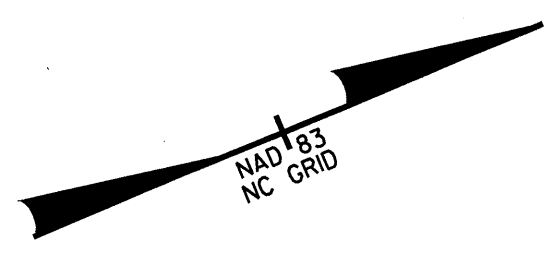
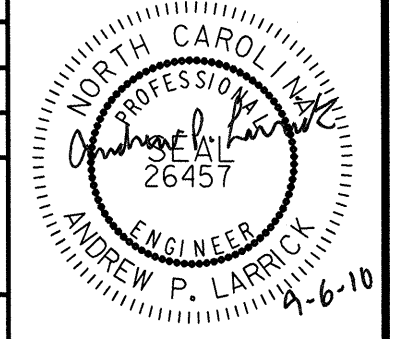
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6416 OLD PLANK ROAD
HIGH POINT, NC 27285
PHONE: (336) 886-4821 FAX: (336) 886-4458



PROJECT REFERENCE NO. R-2414B SHEET NO. UC-4
DESIGNED BY: DMP
DRAWN BY: DMP
CHECKED BY: DMP
APPROVED BY:
REVISED:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119
UTILITY CONSTRUCTION PLANS ONLY



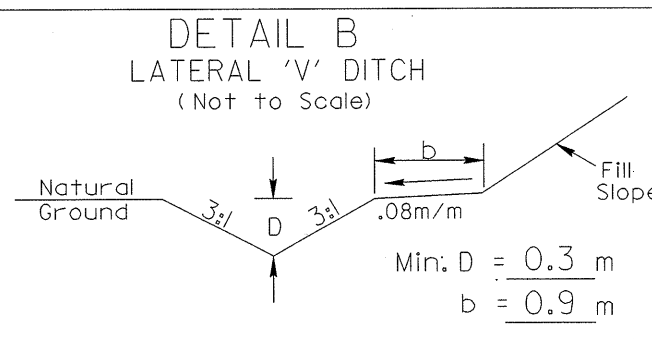
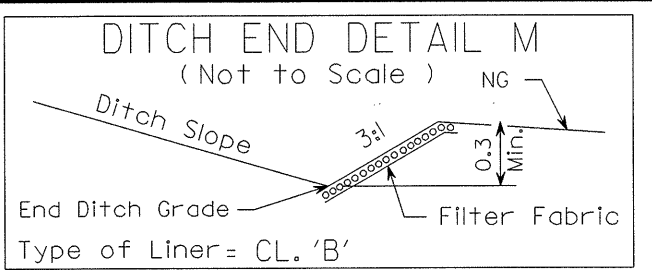
MATCHLINE -L- STA. 52 + 00.000 SEE SHEET UC-3

MATCHLINE -L- STA. 55 + 60.000 SEE SHEET UC-5

NOTE:
EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.

RR #1
PI Sta 10+66.452
Δ = 11° 02' 25.1" (LT)
L = 132.492
T = 66.452
R = 687.593

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT



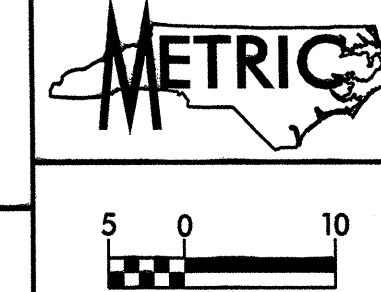
-L-
PI Sta 54+61.452
Δ = 9° 48' 50.9" (LT)
L = 86.501
T = 43.357
R = 505.000
SE = 0.04
R/OFF = 81.000
DS = 80 KM/H

-L- 54+47 to 54+52 (RT.)
-L- 54+67 to 55+32 (RT.)

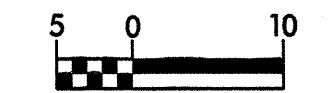
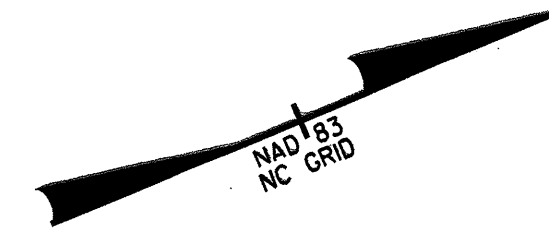
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
8415 OLD PLANK ROAD
HIGH POINT, NC 27285
PHONE: (336) 886-4821 FAX: (336) 886-4458



| | | | |
|----------------------------|---------|--|------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-5 |
| DESIGNED BY: | DMP | | |
| DRAWN BY: | DMP | | |
| CHECKED BY: | DMP | | |
| APPROVED BY: | | | |
| REVISED: | | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. | | UTILITY CONSTRUCTION PLANS ONLY | |
| PHONE: (919) 250-4128 | | JAMES B. SEYMOUR, JR., ET AL C/O WINFRED M. SEYMOUR DB 108, PG 929 | |
| FAX: (919) 250-4119 | | | |



THE CONTRACTOR SHALL ADJUST THE PROPOSED FORCE MAIN RELATIVE TO THE U/G GAS AND POWER LINES

BLUE SKY DEVELOPMENT, LLC
DB 138, PG 109
PC-3, SL 77-B (PLAT)

PROP. - 3' - RELOCATE WATER METERS

PROP. - 7 M OF 100-MM FORCE MAIN SEWER

**PROP. - 43 M TRENCHLESS INSTALLATION OF 75 MM IN SOIL
43 M TRENCHLESS INSTALLATION OF 75 MM NOT IN SOIL**

PROP. - 117 M OF 75 MM FORCE MAIN SEWER

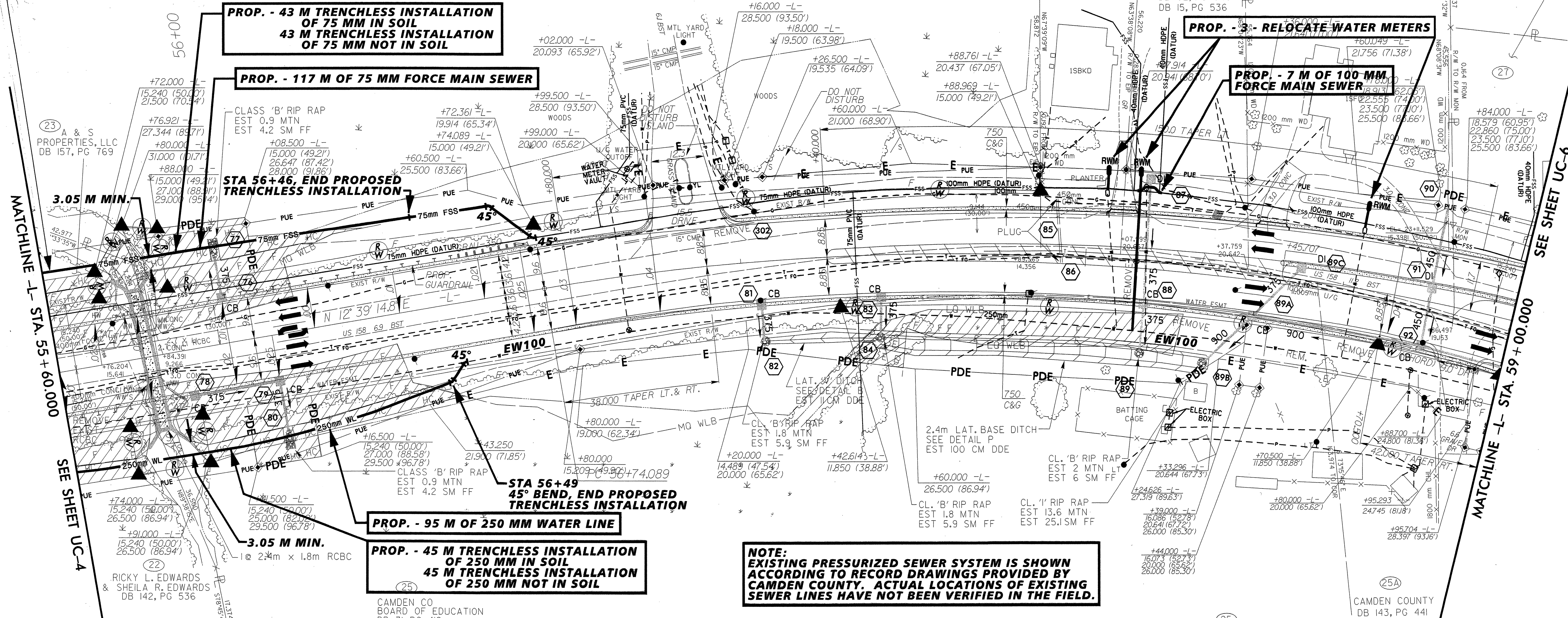
STA 56+46, END PROPOSED TRENCHLESS INSTALLATION

STA 56+49, 45° BEND, END PROPOSED TRENCHLESS INSTALLATION

PROP. - 95 M OF 250 MM WATER LINE

**PROP. - 45 M TRENCHLESS INSTALLATION OF 250 MM IN SOIL
45 M TRENCHLESS INSTALLATION OF 250 MM NOT IN SOIL**

**NOTE:
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ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.**



MATCHLINE -L- STA. 55+60.000
SEE SHEET UC-4

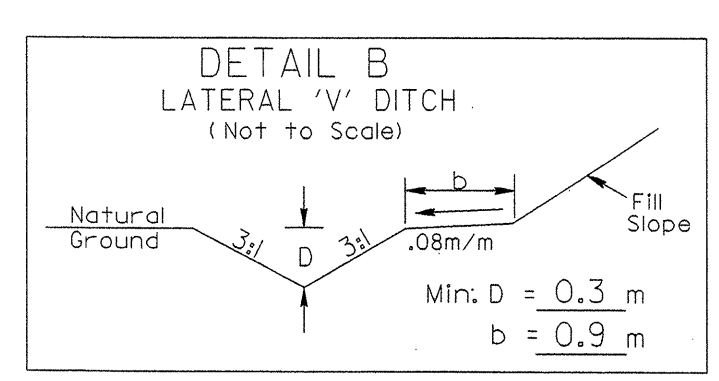
MATCHLINE -L- STA. 59+00.000
SEE SHEET UC-6

RICKY L. EDWARDS
& SHEILA R. EDWARDS
DB 142, PG 536

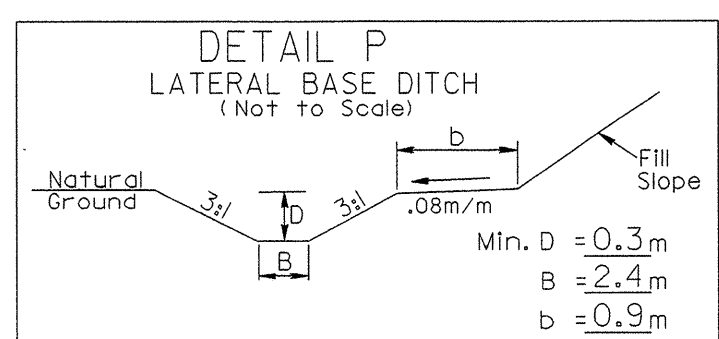
CAMDEN CO
BOARD OF EDUCATION
DB 31, PG 419
MB 18, PG 551A
DB 35, PG 511
DB 62, PG 15
DB 83, PG 451

CAMDEN CO
BOARD OF EDUCATION
DB 31, PG 419
MB 18, PG 551A
DB 35, PG 511
DB 62, PG 15
DB 83, PG 451

CAMDEN COUNTY
DB 143, PG 441
PC-3 SL 91A
(PLAT)



-L- 57+24 to 57+47 (RT.)



-L- 57+52 to 58+25 (RT.)

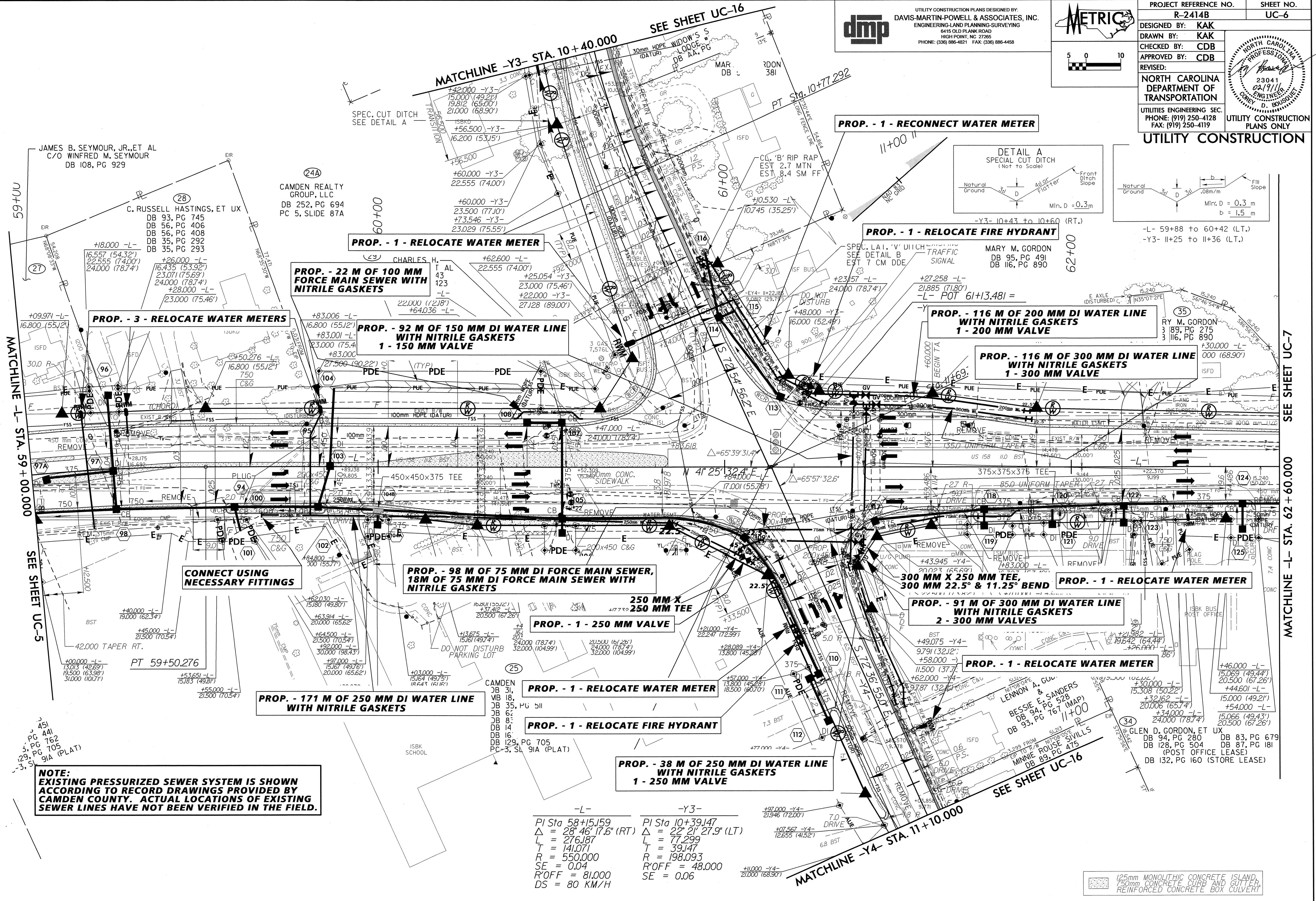
-L-
PI Sta 58+15.159
Δ = 28° 46' 17.6" (RT)
L = 276.187
T = 141.071
R = 550.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

dmp
 UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27865
 PHONE: (336) 886-4821 FAX: (336) 886-4458

METRIC
 5 0 10
 1" = 10'

| | | | |
|---|---------|-----------|------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-6 |
| DESIGNED BY: | KAK | | |
| DRAWN BY: | KAK | | |
| CHECKED BY: | CDB | | |
| APPROVED BY: | CDB | | |
| REVISED: | | | |
| | | | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 | | | |
| UTILITY CONSTRUCTION PLANS ONLY | | | |



NOTE:
 EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN ACCORDING TO RECORD DRAWINGS PROVIDED BY CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.

| | |
|---------------------------------|---------------------------------|
| -L- | -Y3- |
| PI Sta 58+15.59 | PI Sta 10+39.147 |
| $\Delta = 28' 46'' 17.6'' (RT)$ | $\Delta = 22' 21'' 27.9'' (LT)$ |
| L = 276.187 | L = 77.299 |
| T = 141.071 | T = 39.147 |
| R = 550.000 | R = 198.093 |
| SE = 0.04 | R'OFF = 48.000 |
| R'OFF = 81.000 | SE = 0.06 |
| DS = 80 KM/H | |

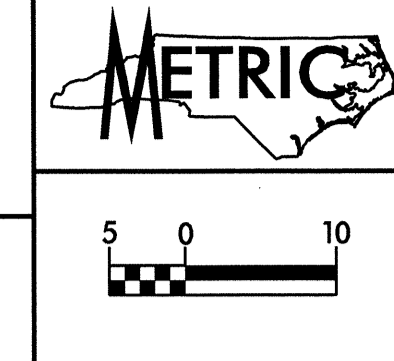
125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

08:EEF:2011/4/27
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 kcamh1_B1 UC0623482

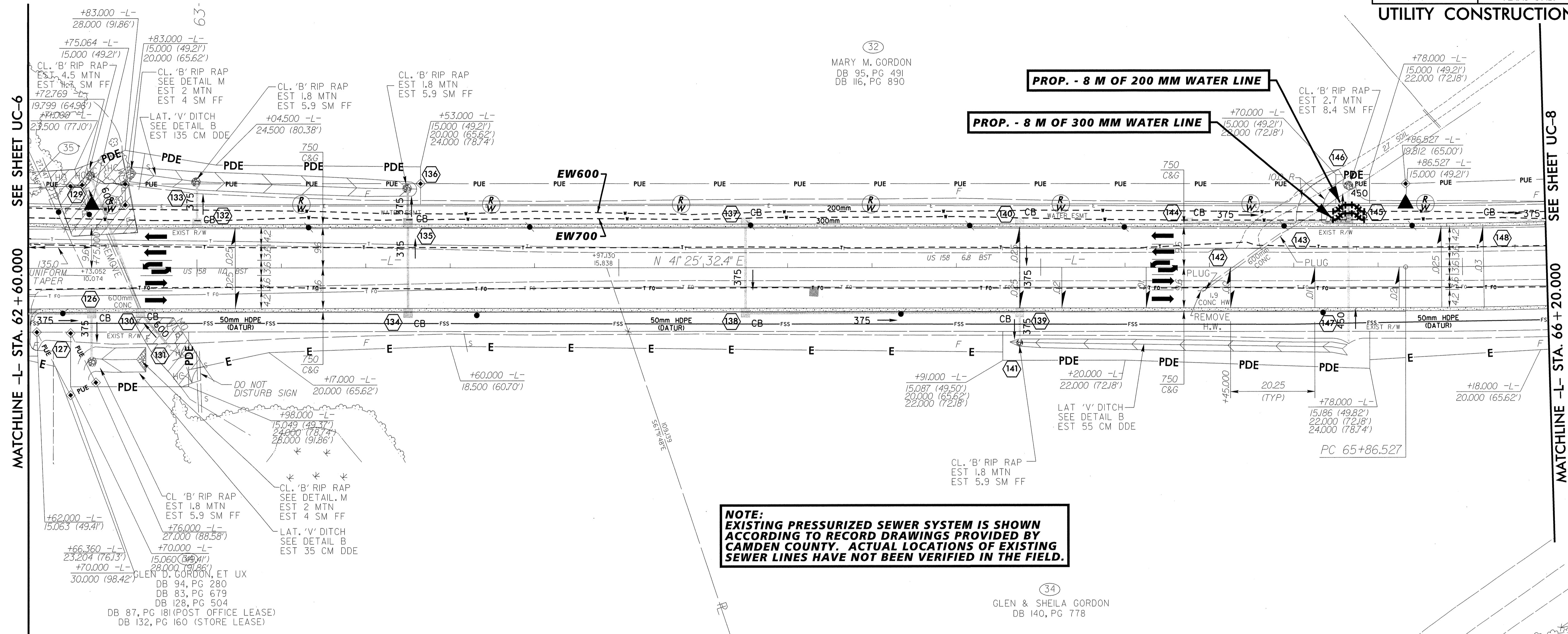
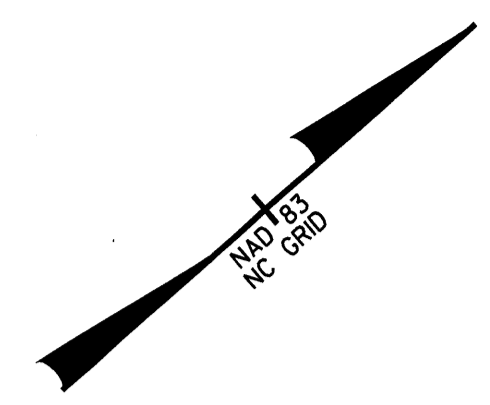
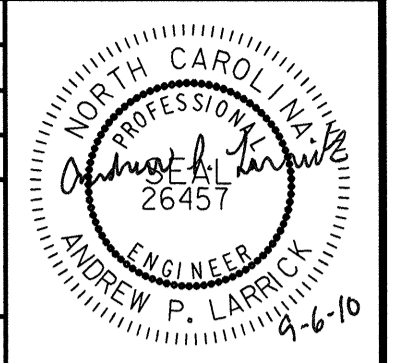
MATCHLINE -L- STA. 59 + 00.000
 MATCHLINE -L- STA. 62 + 60.000
 SEE SHEET UC-5
 SEE SHEET UC-16

REVISIONS

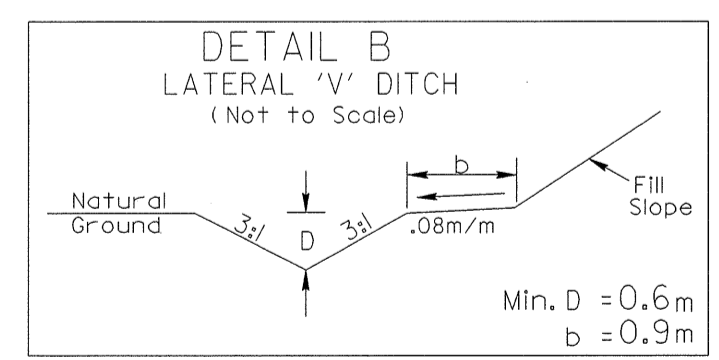
dmp
 UTILITY CONSTRUCTION PLANS DESIGNED BY:
 DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27285
 PHONE: (336) 986-4421 FAX: (336) 986-4458



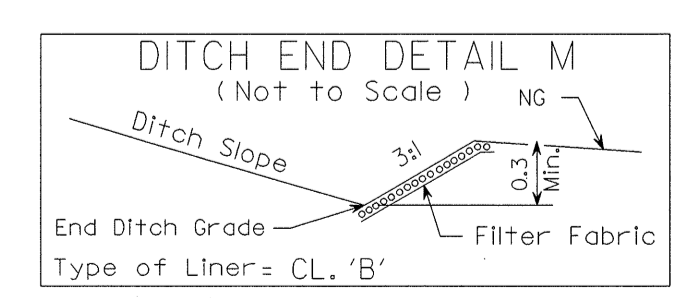
PROJECT REFERENCE NO. R-2414B SHEET NO. UC-7
 DESIGNED BY: DMP
 DRAWN BY: DMP
 CHECKED BY: DMP
 APPROVED BY:
 REVISED:
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 UTILITIES ENGINEERING SEC.
 PHONE: (919) 250-4128 FAX: (919) 250-4119
 UTILITY CONSTRUCTION PLANS ONLY



NOTE:
 EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
 ACCORDING TO RECORD DRAWINGS PROVIDED BY
 CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
 SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.



- L- 62+84 to 63+50 (LT.)
- L- 62+75 to 62+88 (RT.)
- L- 64+94 to 65+73 (RT.)

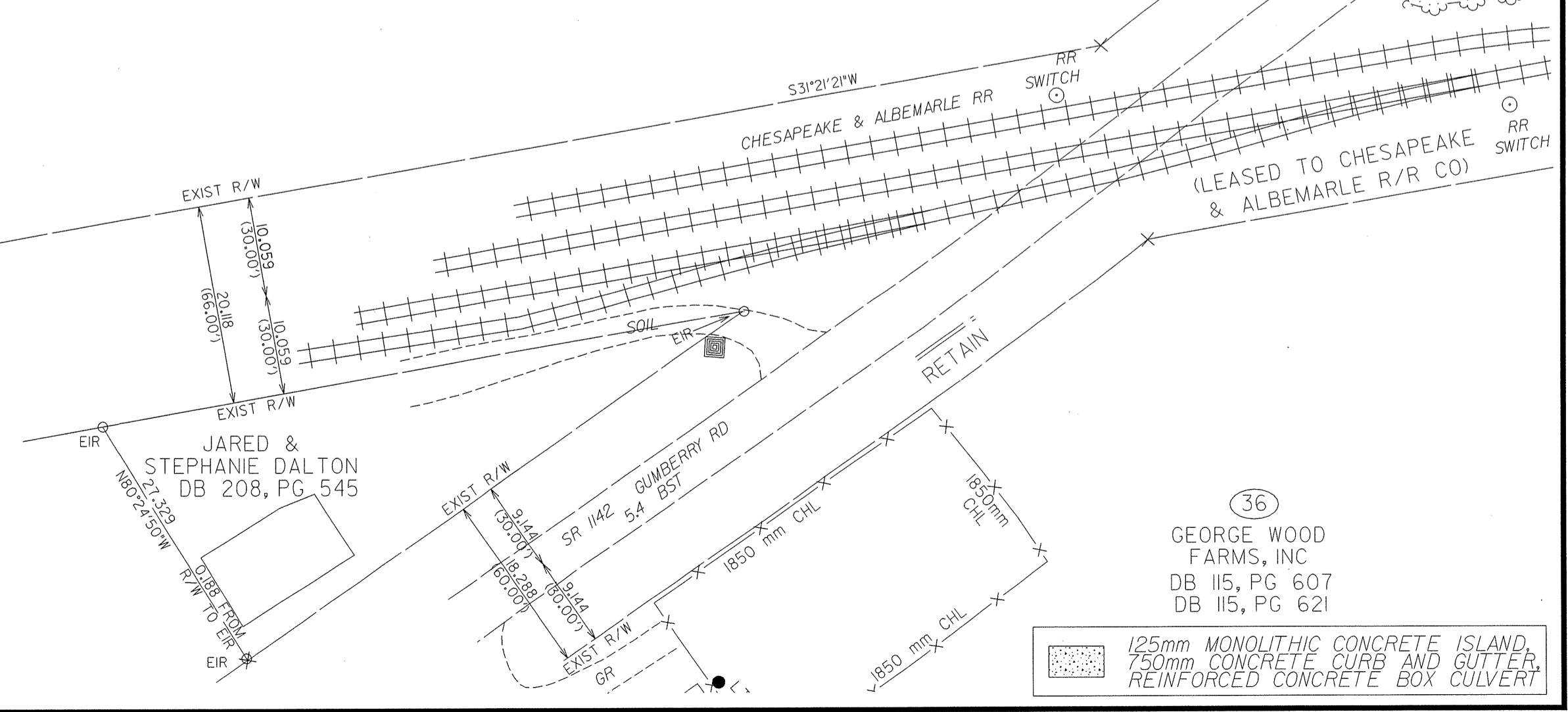


- L- 62+88 (LT.)
- L- 62+88 (RT.)

-L-
 PI Sta 66+25.744
 $\Delta = 3' 44' 37.0''$ (LT.)
 L = 78.406
 T = 39.217
 R = 1,200.000
 SE = 0.03
 R/OFF = 60.750
 DS = 80 KM/H

-Y6-
 PI Sta 10+19.890
 $\Delta = 2' 55' 37.3''$ (LT.)
 L = 39.770
 T = 19.890
 R = 778.495
 SE = EX.
 BK = N 6°28'25.4" E

-Y6-
 PI Sta 10+59.540
 $\Delta = 2' 26' 50.5''$ (RT.)
 L = 39.533
 T = 19.769
 R = 925.512
 SE = EX.
 AH = N 5°59'38.6" E

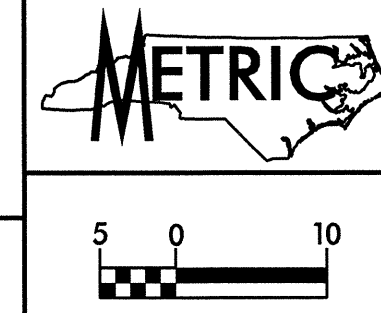


125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6416 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458



| | | | |
|---------------------------------|---------|---|------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-8 |
| DESIGNED BY: | DMP | | |
| DRAWN BY: | DMP | | |
| CHECKED BY: | DMP | | |
| APPROVED BY: | | | |
| REVISOR: | | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. | | PHONE: (919) 250-4128 FAX: (919) 250-4119 | |
| UTILITY CONSTRUCTION PLANS ONLY | | | |

M. W. GODWIN, HEIRS
C/O JOYCE GODWIN
DB 36, PG 656
MB 2, PG 23

(32) MARY M. GORDON
DB 46, PG 316A

(39) MATTHEW HARRELL
DB 246, PG 540

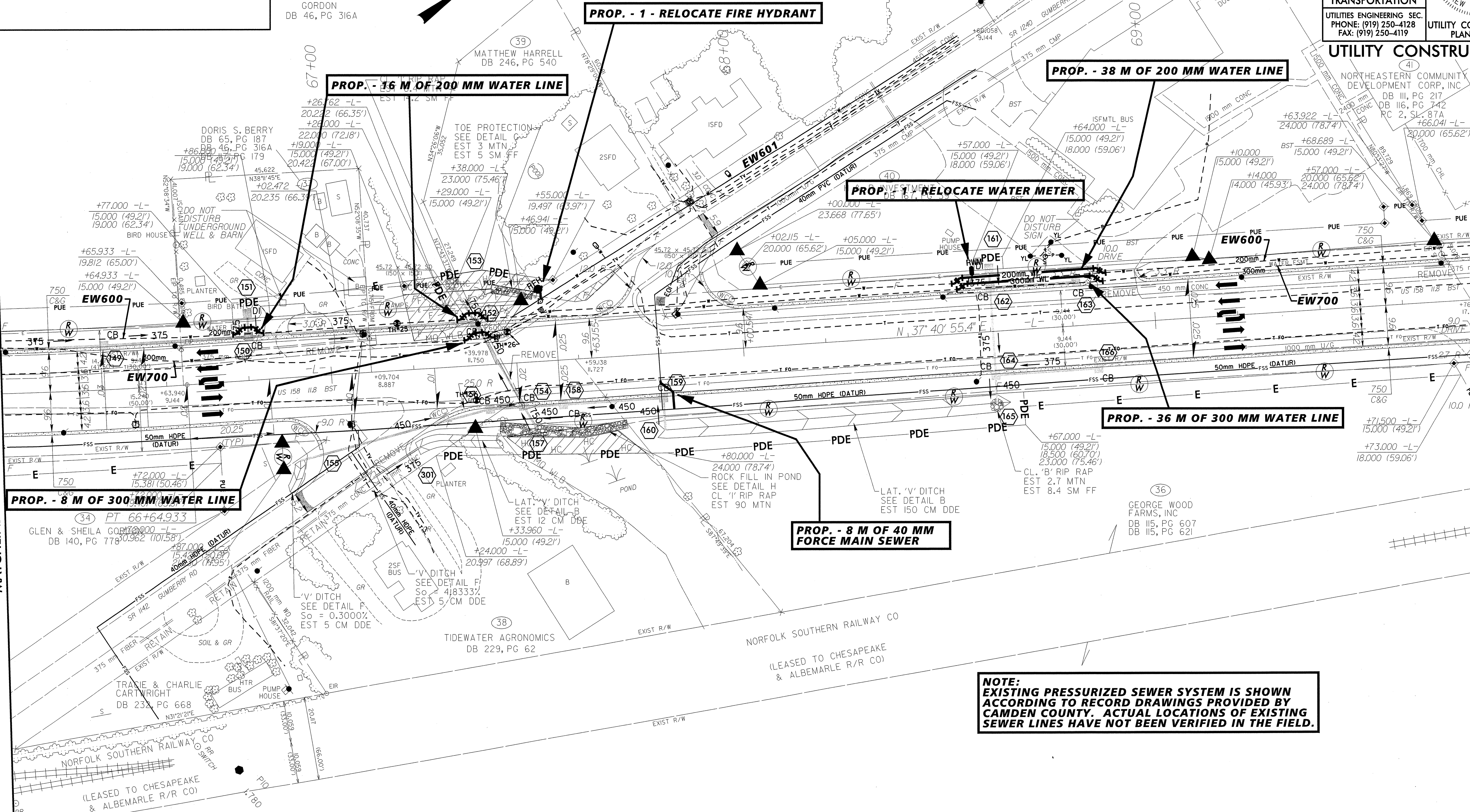
(41) NORTHEASTERN COMMUNITY DEVELOPMENT CORP, INC
DB III, PG 217
DB II, PG 742
PC 2, SL. 87A
+66.041 -L-
20,000 (65.62')

SEE SHEET UC-7

MATCHLINE -L- STA. 66+20.000

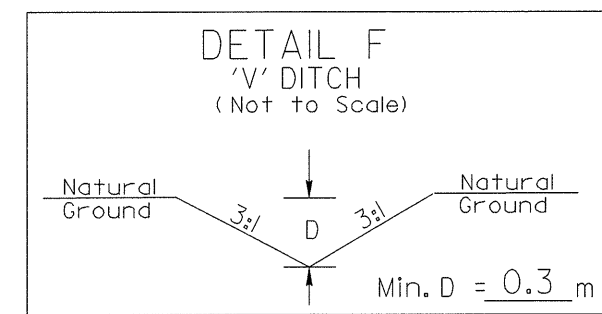
MATCHLINE -L- STA. 69+80.000

SEE SHEET UC-9

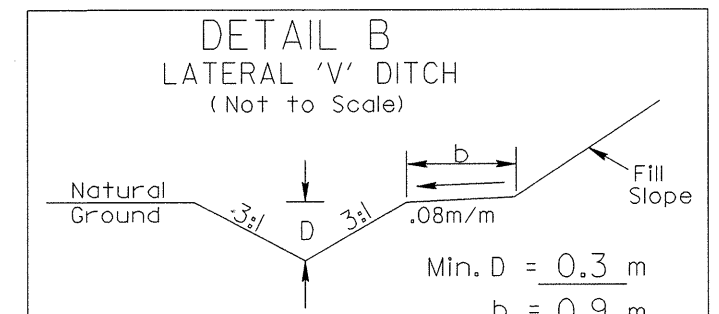


-L-
 PI Sta 66+25.744
 $\Delta = 3' 44" 37.0" (LT)$
 $L = 78.406$
 $T = 39.217$
 $R = 1,200.000$
 $SE = 0.03$
 $R/OFF = 60.750$
 $DS = 80 KM/H$

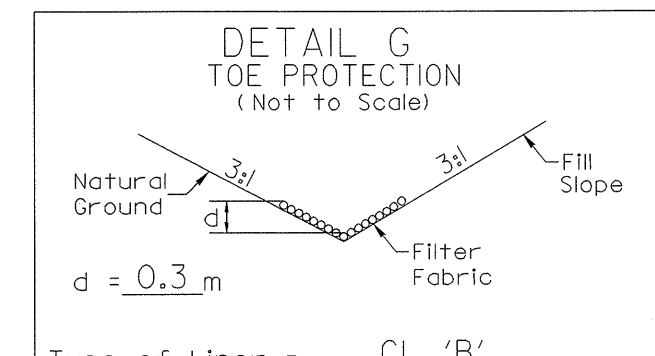
125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT



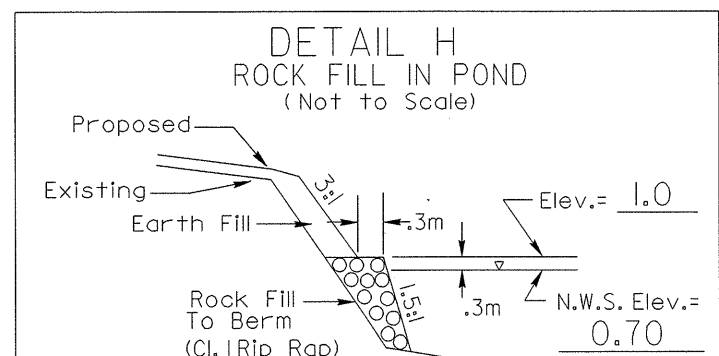
-L- 66+87 (RT.)
 -L- 67+06 (RT.)



-L- 67+23 to 67+41 (RT.)
 -L- 67+80 to 68+60 (RT.)



-L- 67+40 to 67+50 (LT.)

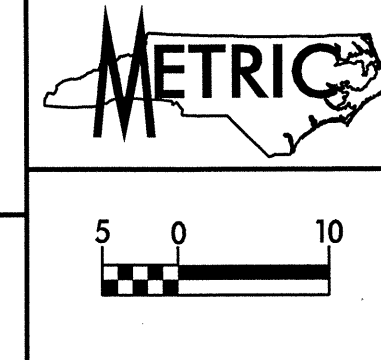


-L- 67+41 to 67+69 (RT.)

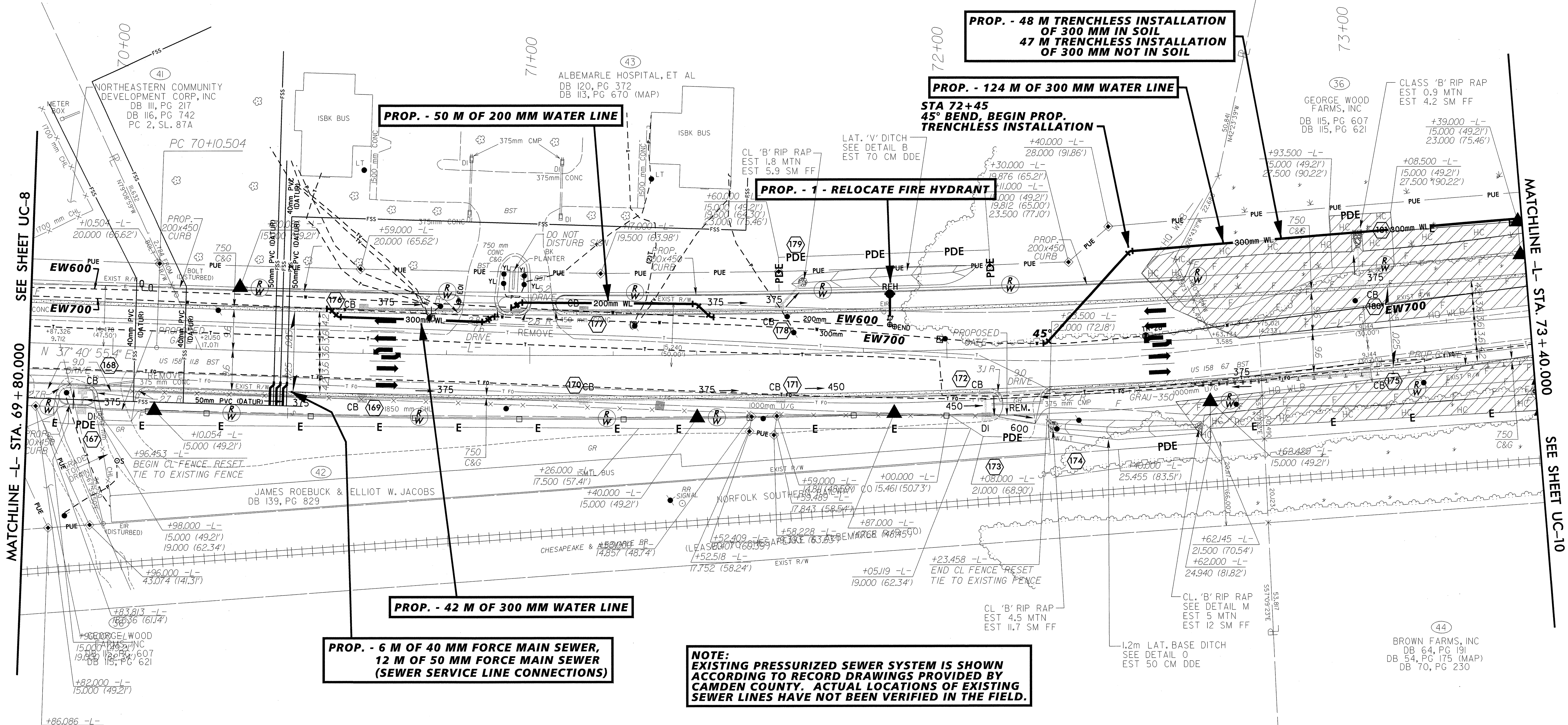
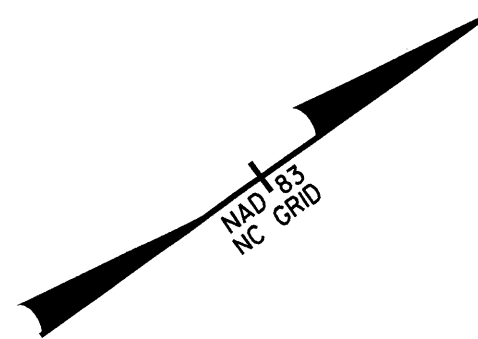
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6416 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458



| | |
|--|---|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2414B | UC-9 |
| DESIGNED BY: DMP | |
| DRAWN BY: DMP | |
| CHECKED BY: DMP | |
| APPROVED BY: | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION |
| REVISED: | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 | |
| UTILITY CONSTRUCTION PLANS ONLY | |



MATCHLINE -L- STA. 69 + 80.00 SEE SHEET UC-8

MATCHLINE -L- STA. 73 + 40.00 SEE SHEET UC-10

PROP. - 50 M OF 200 MM WATER LINE

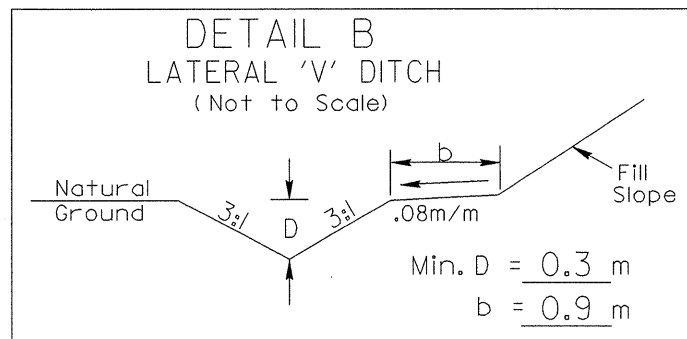
PROP. - 124 M OF 300 MM WATER LINE

PROP. - 1 - RELOCATE FIRE HYDRANT

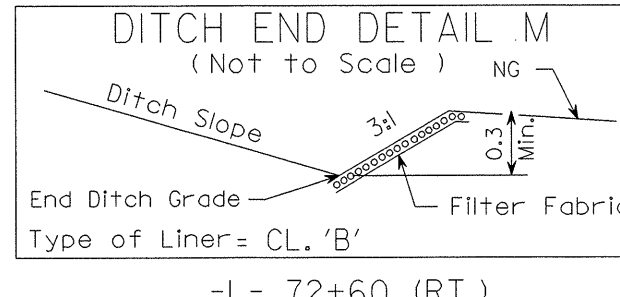
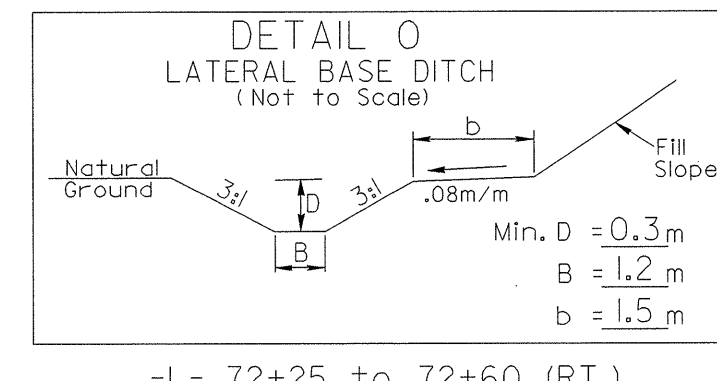
PROP. - 42 M OF 300 MM WATER LINE

PROP. - 6 M OF 40 MM FORCE MAIN SEWER,
12 M OF 50 MM FORCE MAIN SEWER
(SEWER SERVICE LINE CONNECTIONS)

NOTE:
EXISTING PRESSURIZED SEWER SYSTEM IS SHOWN
ACCORDING TO RECORD DRAWINGS PROVIDED BY
CAMDEN COUNTY. ACTUAL LOCATIONS OF EXISTING
SEWER LINES HAVE NOT BEEN VERIFIED IN THE FIELD.



-L-
 PI Sta 72+27.319
 $\Delta = 8' 5" 20.1" (LT)$
 L = 432.766
 T = 216.815
 R = 2,800.000
 SE = NC
 DS = 80 KM/H



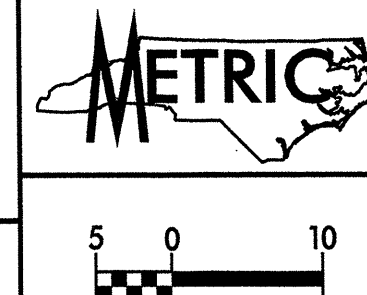
125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

DATE PLOTTED: 11/14/13 11:45 AM

REVISIONS

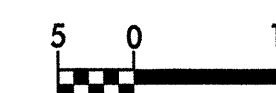
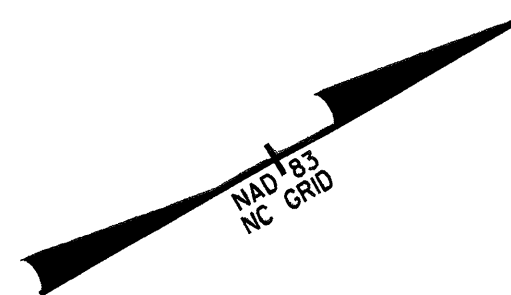


UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27285
PHONE: (336) 886-4821 FAX: (336) 886-4458



| | | | |
|----------------------------|---------|---|-------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-10 |
| DESIGNED BY: | DMP | | |
| DRAWN BY: | DMP | | |
| CHECKED BY: | DMP | | |
| APPROVED BY: | | | |
| REVISED: | | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. | | UTILITY CONSTRUCTION PLANS ONLY | |
| PHONE: (919) 250-4128 | | | |
| FAX: (919) 250-4119 | | | |

UTILITY CONSTRUCTION



PROP. - 41 M TRENCHLESS INSTALLATION OF 300 MM IN SOIL
41 M TRENCHLESS INSTALLATION OF 300 MM NOT IN SOIL

THE CONTRACTOR SHALL ADJUST THE PROPOSED WATER LINE RELATIVE TO THE UIG POWER LINE

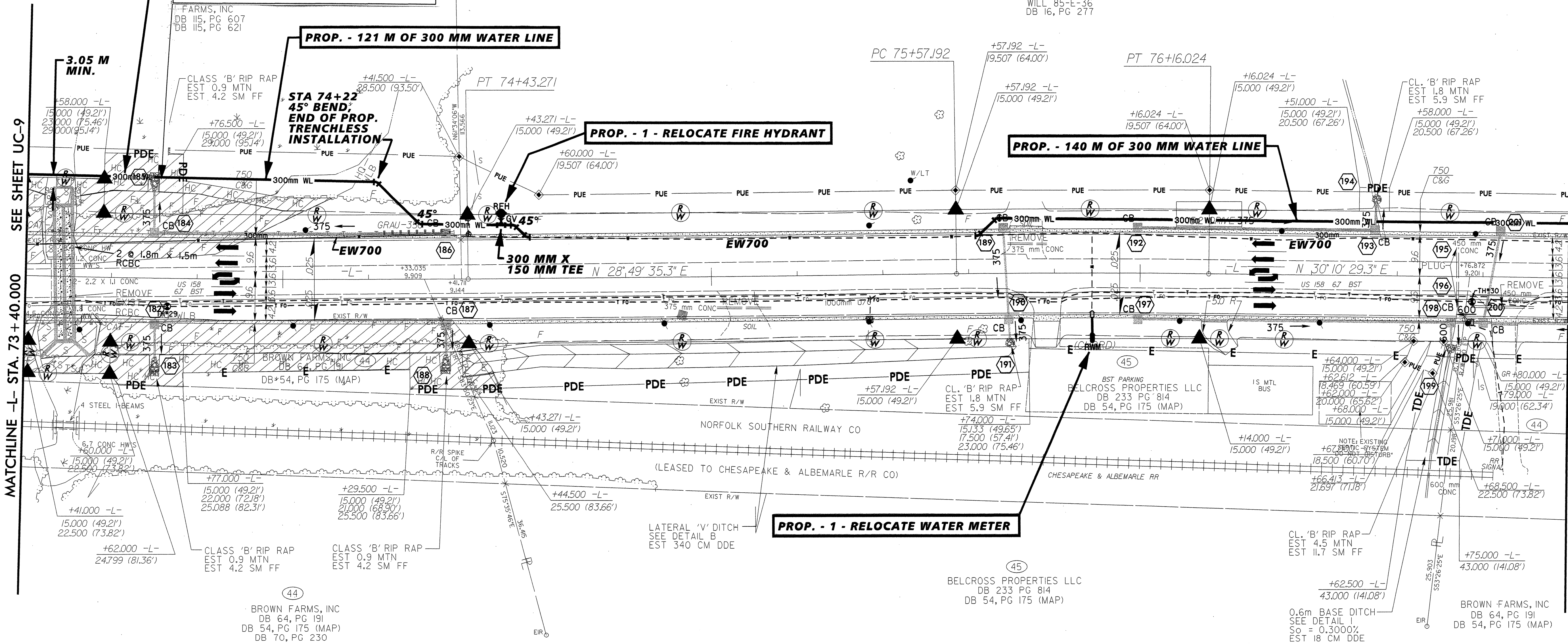
PROP. - 121 M OF 300 MM WATER LINE

STA 74+22 45° BEND, END OF PROP. TRENCHLESS INSTALLATION

PROP. - 1 - RELOCATE FIRE HYDRANT

PROP. - 140 M OF 300 MM WATER LINE

PROP. - 1 - RELOCATE WATER METER



SEE SHEET UC-9

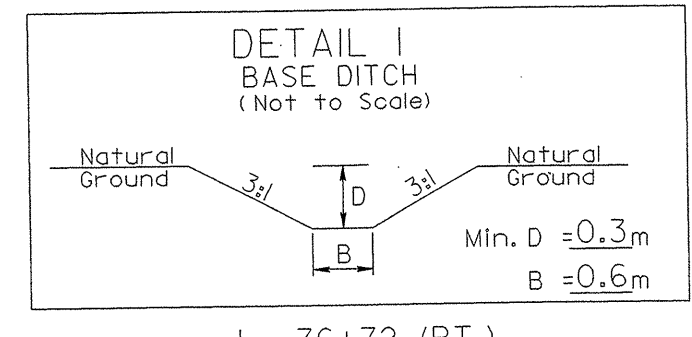
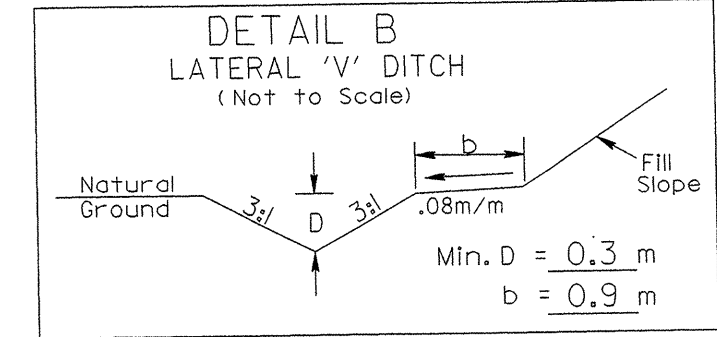
MATCHLINE -L- STA. 73 + 40.000

SEE SHEET UC-11

MATCHLINE -L- STA. 77 + 00.000

-L-
 PI Sta 72+27.319
 Δ = 8° 51' 20.1" (LT)
 L = 432.766
 T = 216.815
 R = 2,800.000
 SE = NC
 DS = 80 KM/H

-L-
 PI Sta 75+86.610
 Δ = 1° 20' 54.0" (RT)
 L = 58.832
 T = 29.418
 R = 2,500.000
 SE = NC
 DS = 80 KM/H

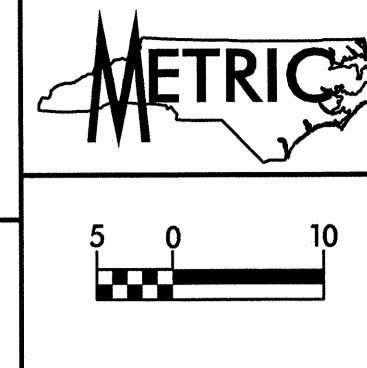


125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

REVISIONS

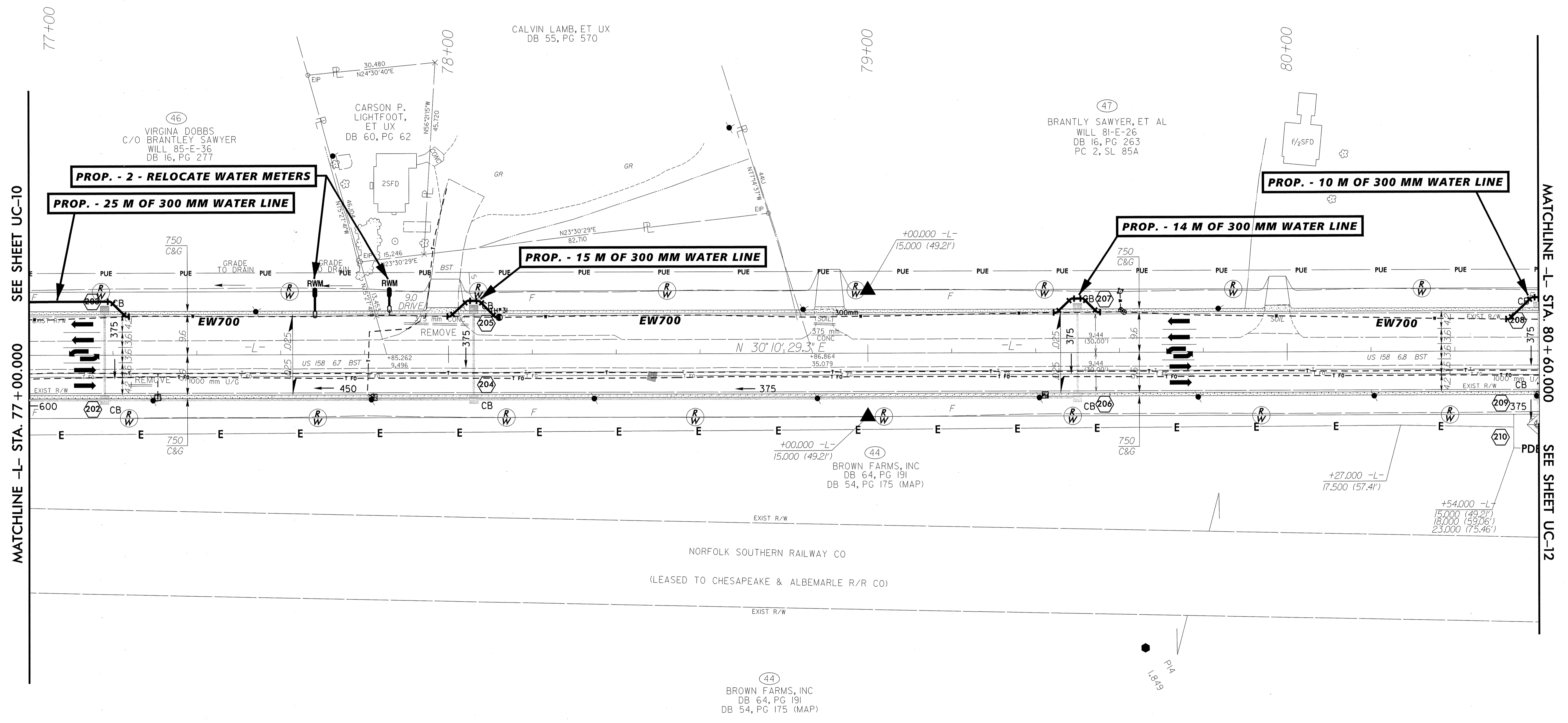


UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4521 FAX: (336) 886-4458



| | |
|--|------------------------------------|
| PROJECT REFERENCE NO. R-2414B | SHEET NO. UC-11 |
| DESIGNED BY: DMP | |
| DRAWN BY: DMP | |
| CHECKED BY: DMP | |
| APPROVED BY: | |
| REVISER: | 9-6-10 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | UTILITY CONSTRUCTION PLANS ONLY |
| UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 | |

UTILITY CONSTRUCTION



SEE SHEET UC-10
MATCHLINE -L- STA. 77 + 00.000

MATCHLINE -L- STA. 80 + 60.000
SEE SHEET UC-12

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

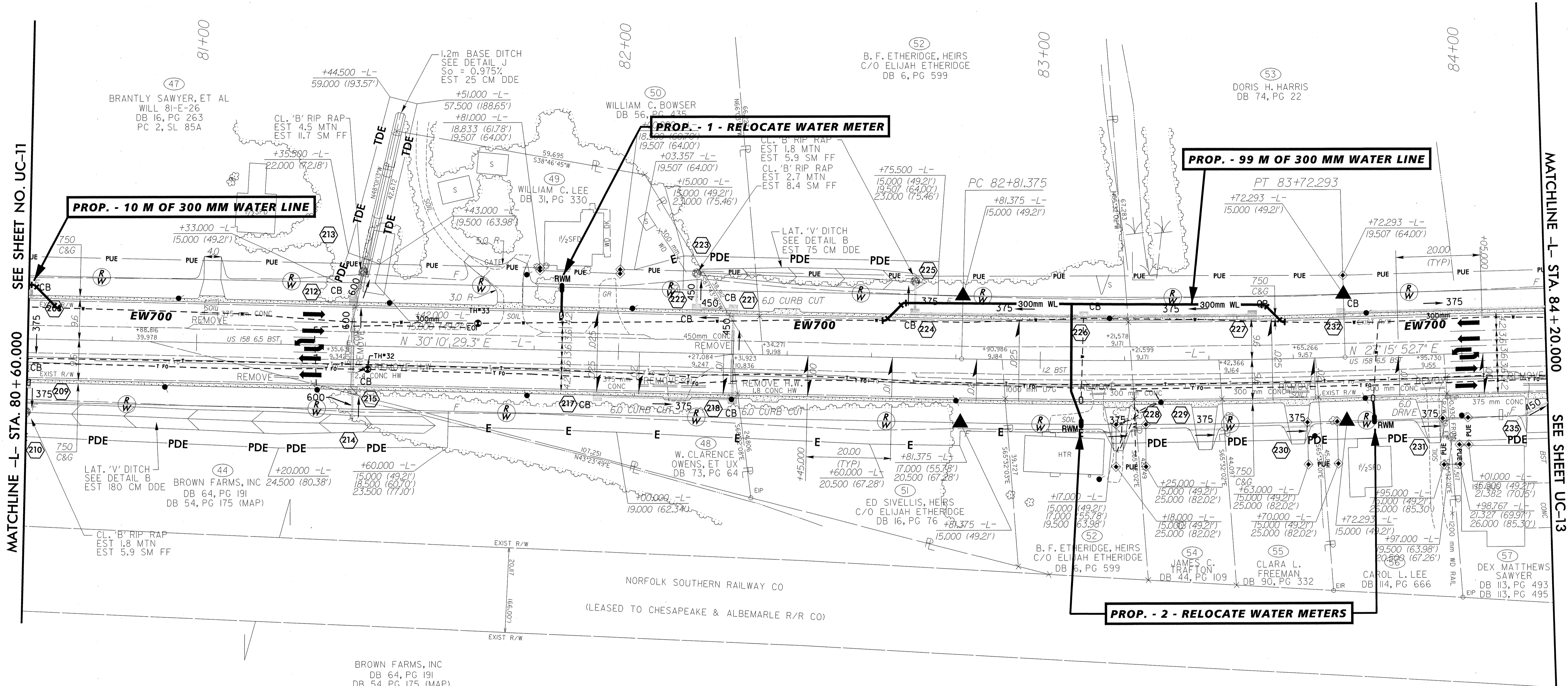
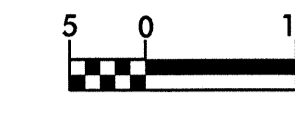
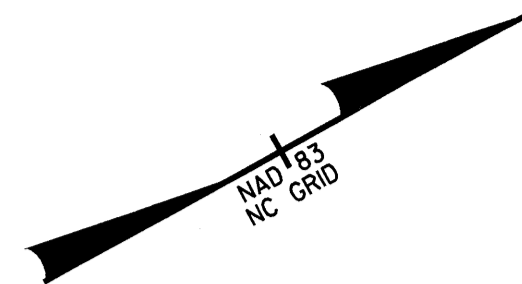
REVISIONS



UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4521 FAX: (336) 886-4458

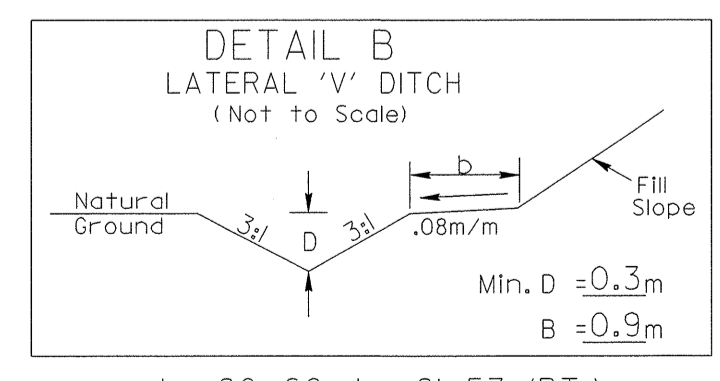
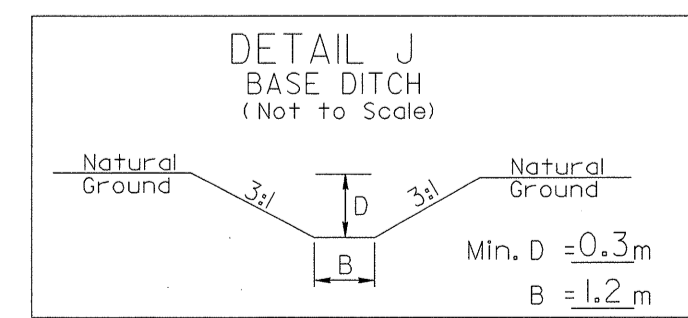


| | |
|--|---|
| PROJECT REFERENCE NO. R-2414B | SHEET NO. UC-12 |
| DESIGNED BY: DMP | |
| DRAWN BY: DMP | |
| CHECKED BY: DMP | |
| APPROVED BY: | |
| REVISOR: | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION |
| UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 | |
| UTILITY CONSTRUCTION PLANS ONLY | |



MATCHLINE -L- STA. 80 + 60.000
SEE SHEET NO. UC-11

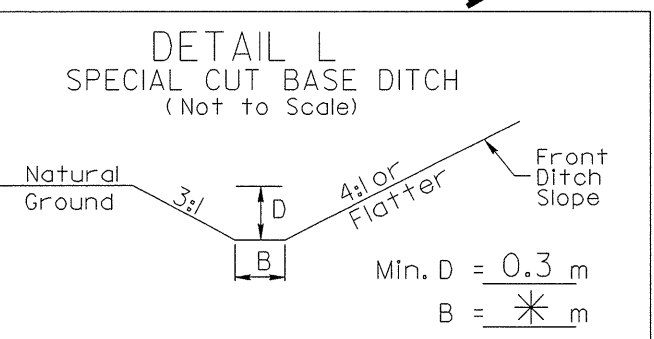
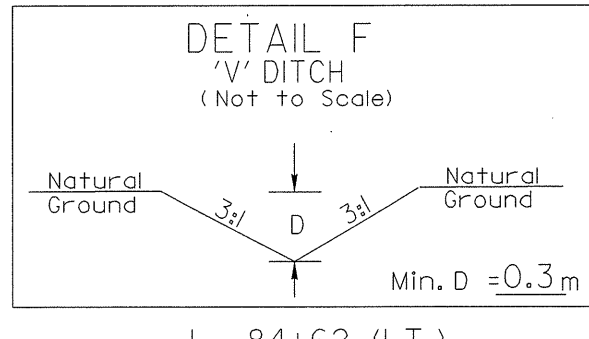
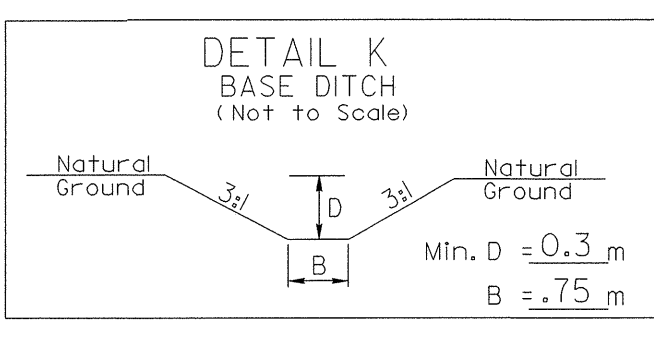
MATCHLINE -L- STA. 84 + 20.000
SEE SHEET UC-13



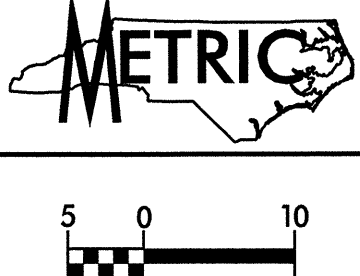
-L-
PI Sta 83+26.844
 $\Delta = 2^{\circ}54'36.6''$ (LT)
L = 90.918
T = 45.469
R = 1,790.000
SE = 0.025
R'OFF = 50.625
DS = 80 KM/H

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

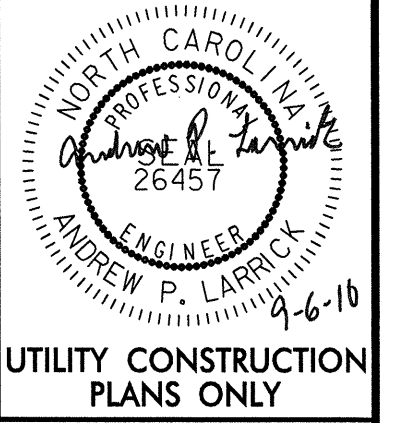
REVISIONS



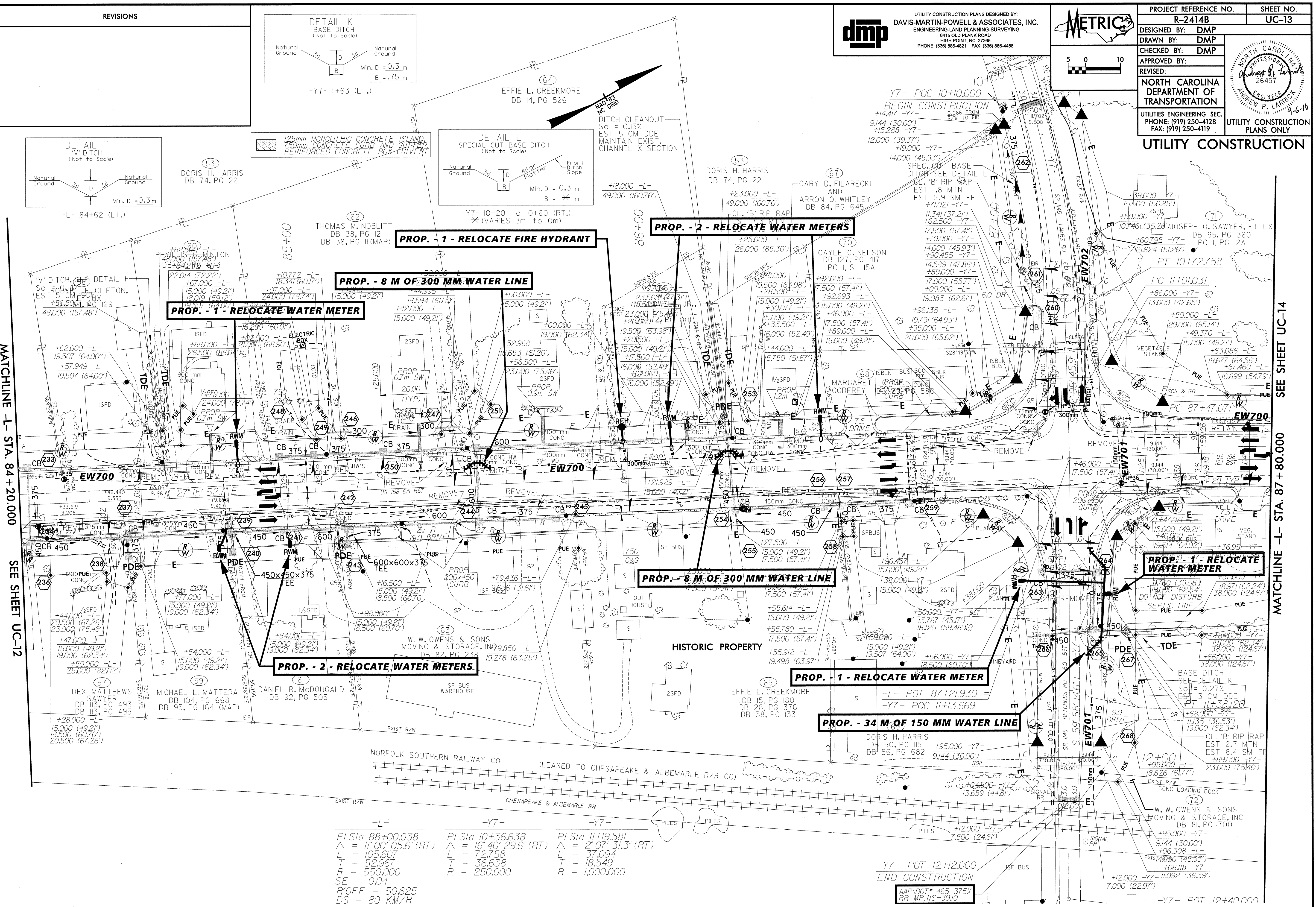
UTILITY CONSTRUCTION PLANS DESIGNED BY:
dmp DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
ENGINEERING-LAND PLANNING-SURVEYING
6415 OLD PLANK ROAD
HIGH POINT, NC 27265
PHONE: (336) 886-4821 FAX: (336) 886-4458



| | | | |
|--|---------|-----------|-------|
| PROJECT REFERENCE NO. | R-2414B | SHEET NO. | UC-13 |
| DESIGNED BY: | DMP | | |
| DRAWN BY: | DMP | | |
| CHECKED BY: | DMP | | |
| APPROVED BY: | | | |
| REVISED: | | | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | | | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 | | | |
| UTILITY CONSTRUCTION PLANS ONLY | | | |



UTILITY CONSTRUCTION



MATCHLINE -L- STA. 84 + 20.000

SEE SHEET UC-12

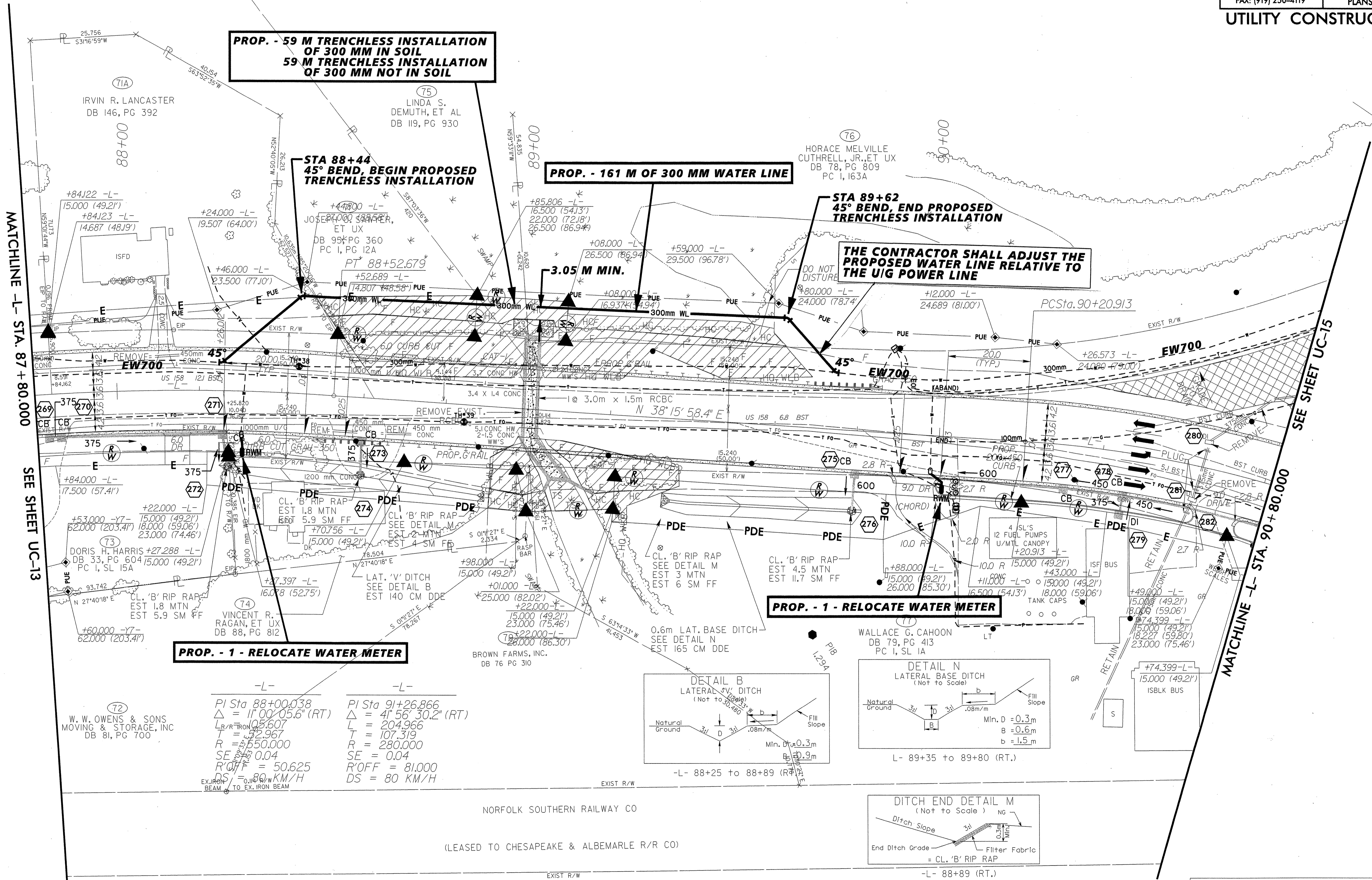
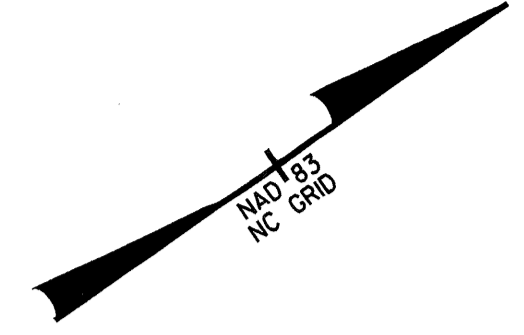
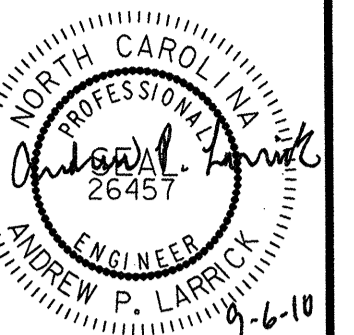
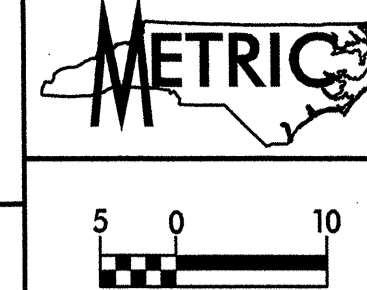
SEE SHEET UC-14

MATCHLINE -L- STA. 87 + 80.000

| -L- | -Y7- | -Y7- |
|---------------------------------------|---------------------------------------|--------------------------------------|
| PI Sta 88+00.038 | PI Sta 10+36.638 | PI Sta 11+19.581 |
| $\Delta = 11^{\circ} 00' 05.6''$ (RT) | $\Delta = 16^{\circ} 40' 29.6''$ (RT) | $\Delta = 2^{\circ} 07' 31.3''$ (RT) |
| L = 105.607 | L = 72.758 | L = 37.094 |
| T = 52.967 | T = 36.638 | T = 18.549 |
| R = 550.000 | R = 250.000 | R = 1,000.000 |
| SE = 0.04 | | |
| R'OFF = 50.625 | | |
| DS = 80 KM/H | | |

-Y7- POT 12+12.000
END CONSTRUCTION
AAR DOT# 465 375X
RR MP. NS-39.10

DATE PLOTTED: 11/11/2010 10:58:11 AM
PLOTTER: HP DesignJet 2400



**PROP. - 59 M TRENCHLESS INSTALLATION OF 300 MM IN SOIL
59 M TRENCHLESS INSTALLATION OF 300 MM NOT IN SOIL**

PROP. - 161 M OF 300 MM WATER LINE

THE CONTRACTOR SHALL ADJUST THE PROPOSED WATER LINE RELATIVE TO THE UIG POWER LINE

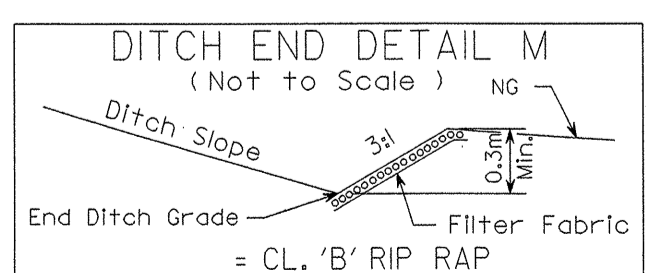
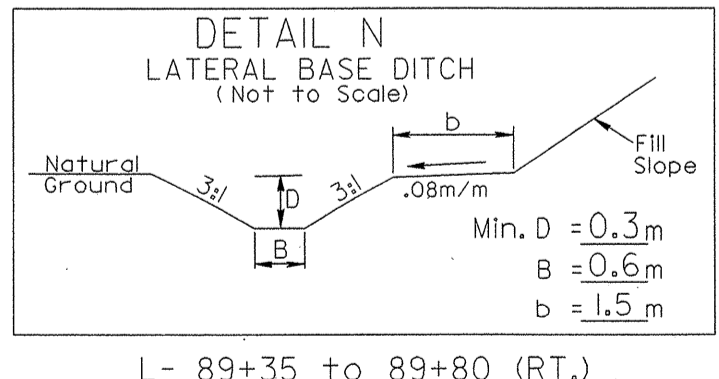
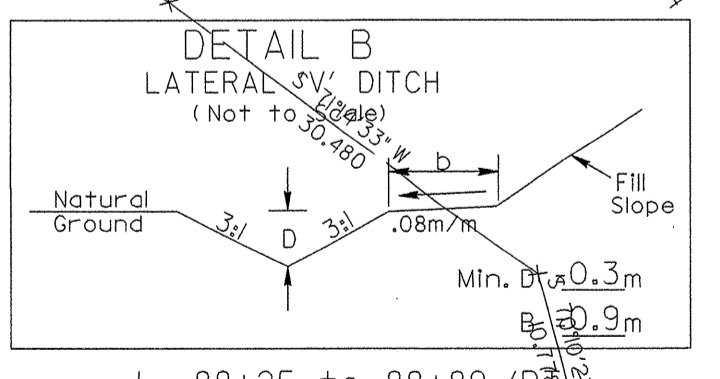
PROP. - 1 - RELOCATE WATER METER

PROP. - 1 - RELOCATE WATER METER

(72) W. W. OWENS & SONS
MOVING & STORAGE, INC
DB 81, PG 700

-L-
PI Sta 88+00.038
Δ = 11° 00' 05.6" (RT)
L = 105.607
T = 32.967
R = 850.000
SE = 0.04
R'OFF = 50.625
DS = 80 KM/H

-L-
PI Sta 91+26.866
Δ = 41° 56' 30.2" (RT)
L = 204.966
T = 107.319
R = 280.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H



125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

MATCHLINE -L- STA. 87 + 80.000

SEE SHEET UC-13

SEE SHEET UC-15

MATCHLINE -L- STA. 90 + 80.000

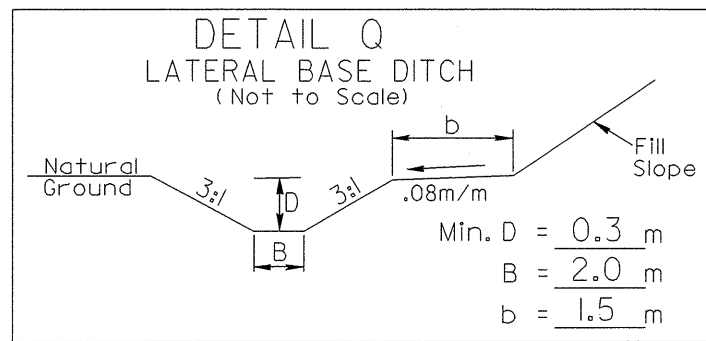
NORFOLK SOUTHERN RAILWAY CO
(LEASED TO CHESAPEAKE & ALBEMARLE R/R CO)

(76)
HORACE MELVILLE
CUTHRELL, JR., ET UX
DB 78, PG 809
PC 1, 163A

-Y8- POT 11+00.000
BEGIN CONSTRUCTION

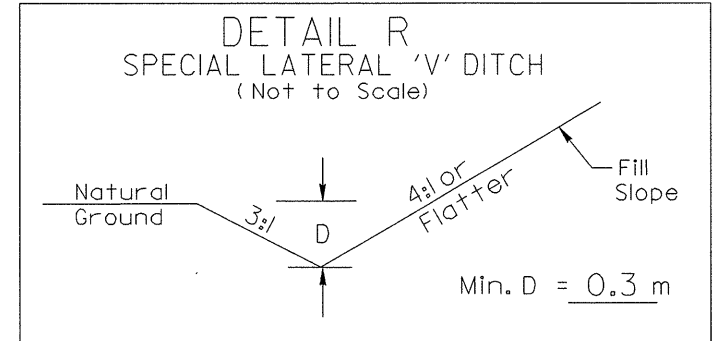
+39.000 -Y8-
18.000 (59.06')

+47.000 -Y8-
17.256 (56.61')



-L- 91+60 to 92+40 (LT.)

| -L- | -L- | -Y8- |
|--------------------------------------|--------------------------------------|---------------------------------------|
| PI Sta 91+26.866 | PI Sta 93+07.681 | PI Sta 11+74.655 |
| $\Delta = 4^{\circ} 56' 30.2''$ (RT) | $\Delta = 4^{\circ} 05' 18.8''$ (LT) | $\Delta = 28^{\circ} 49' 10.8''$ (LT) |
| L = 204.966 | L = 166.266 | L = 88.025 |
| T = 107.319 | T = 83.168 | T = 44.964 |
| R = 280.000 | R = 2,330.000 | R = 175.000 |
| SE = 0.04 | SE = NC | |
| R'OFF = 81.000 | DS = 80 KM/H | |
| DS = 80 KM/H | | |



-L- 93+00 to 93+80 (RT.)
-L- 93+00 to 93+80 (LT.)

PROJECT REFERENCE NO. R-2414B SHEET NO. UC-15

DESIGNED BY: DMP
DRAWN BY: DMP
CHECKED BY: DMP
APPROVED BY:
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC
PHONE: (919) 250-4128
FAX: (919) 250-4119

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION PLANS ONLY

PROP. - 1 - RELOCATE FIRE HYDRANT

(78)
C. RUSSELL HASTINGS
AND
CALVIN LAMB
DB 119, PG 94
PC 2, SL 55A

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

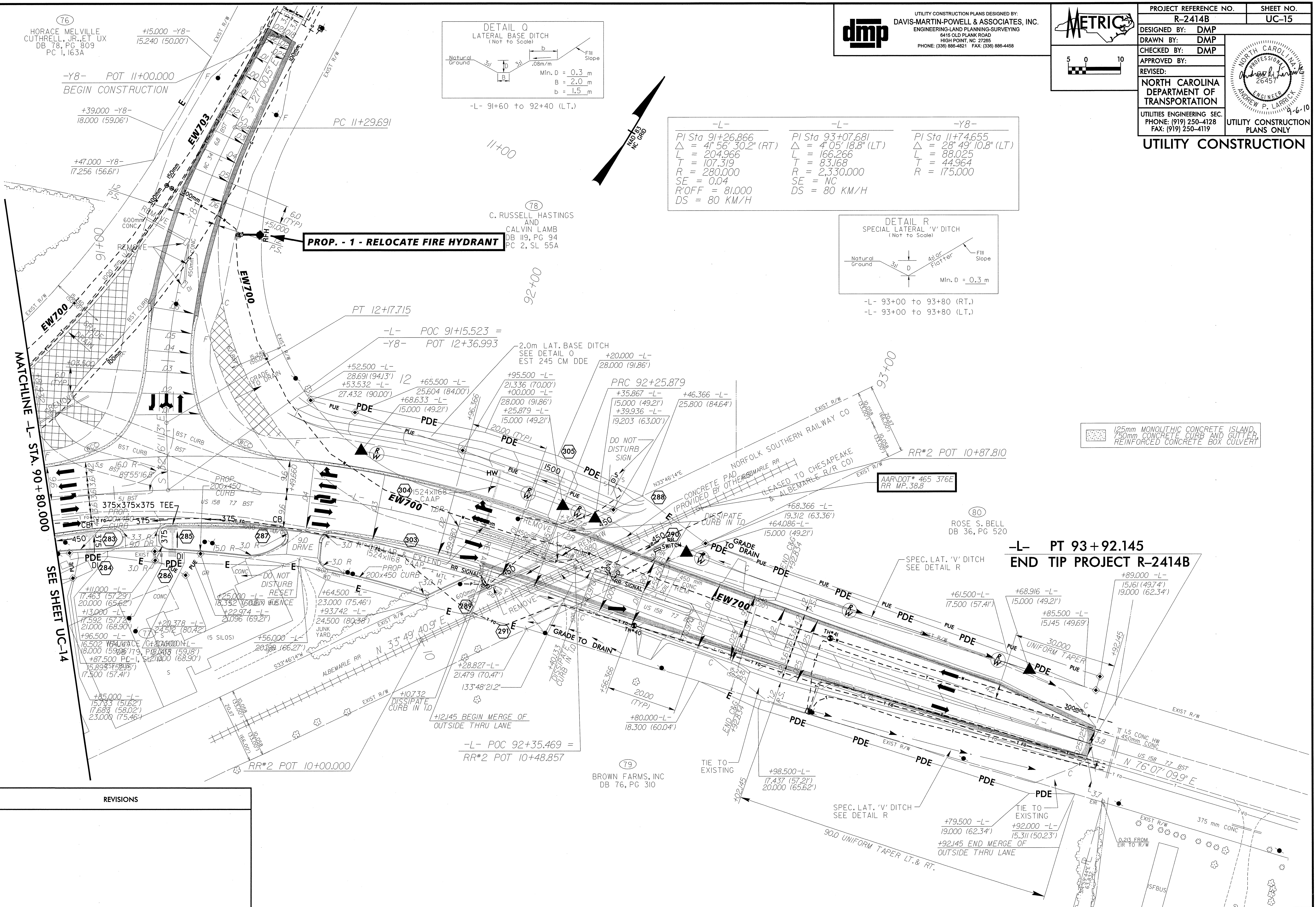
-L- PT 93+92.145
END TIP PROJECT R-2414B

MATCHLINE -L- STA. 90+80.000

SEE SHEET UC-14

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |
| | | |



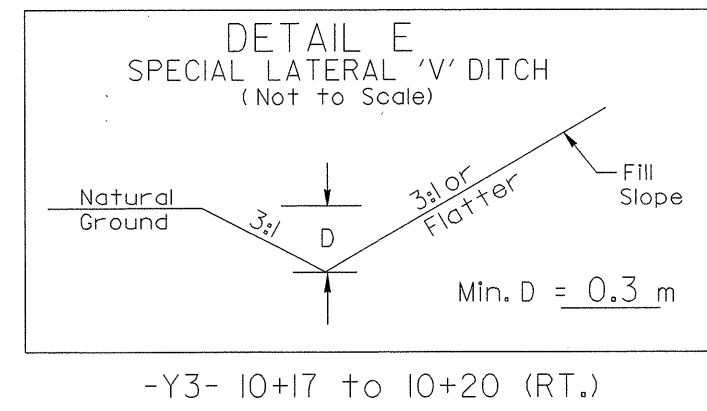
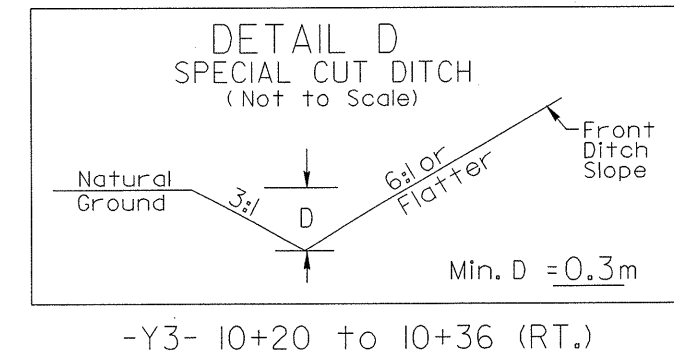
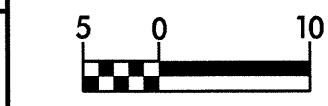
REVISIONS



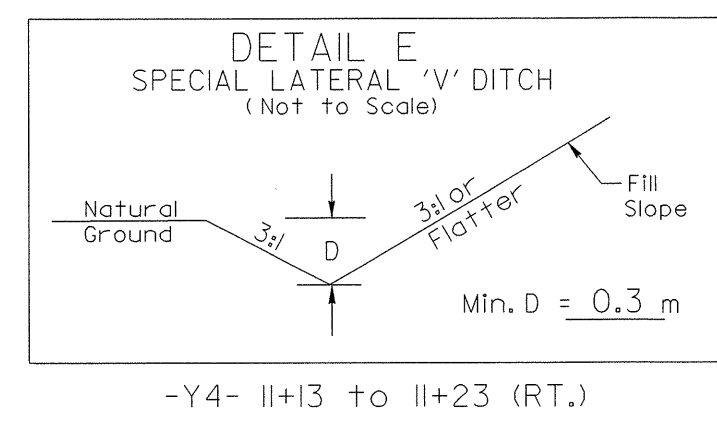
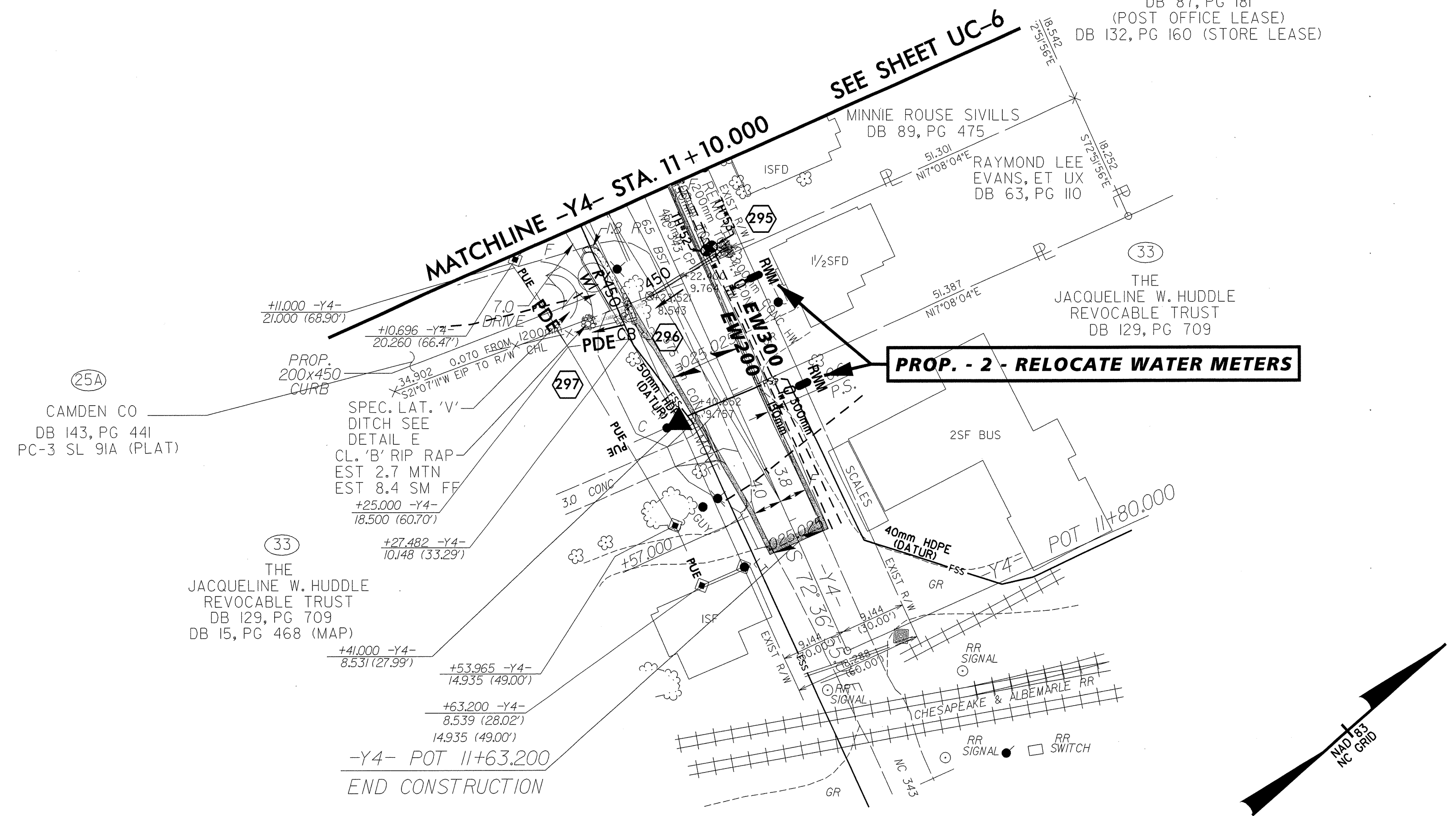
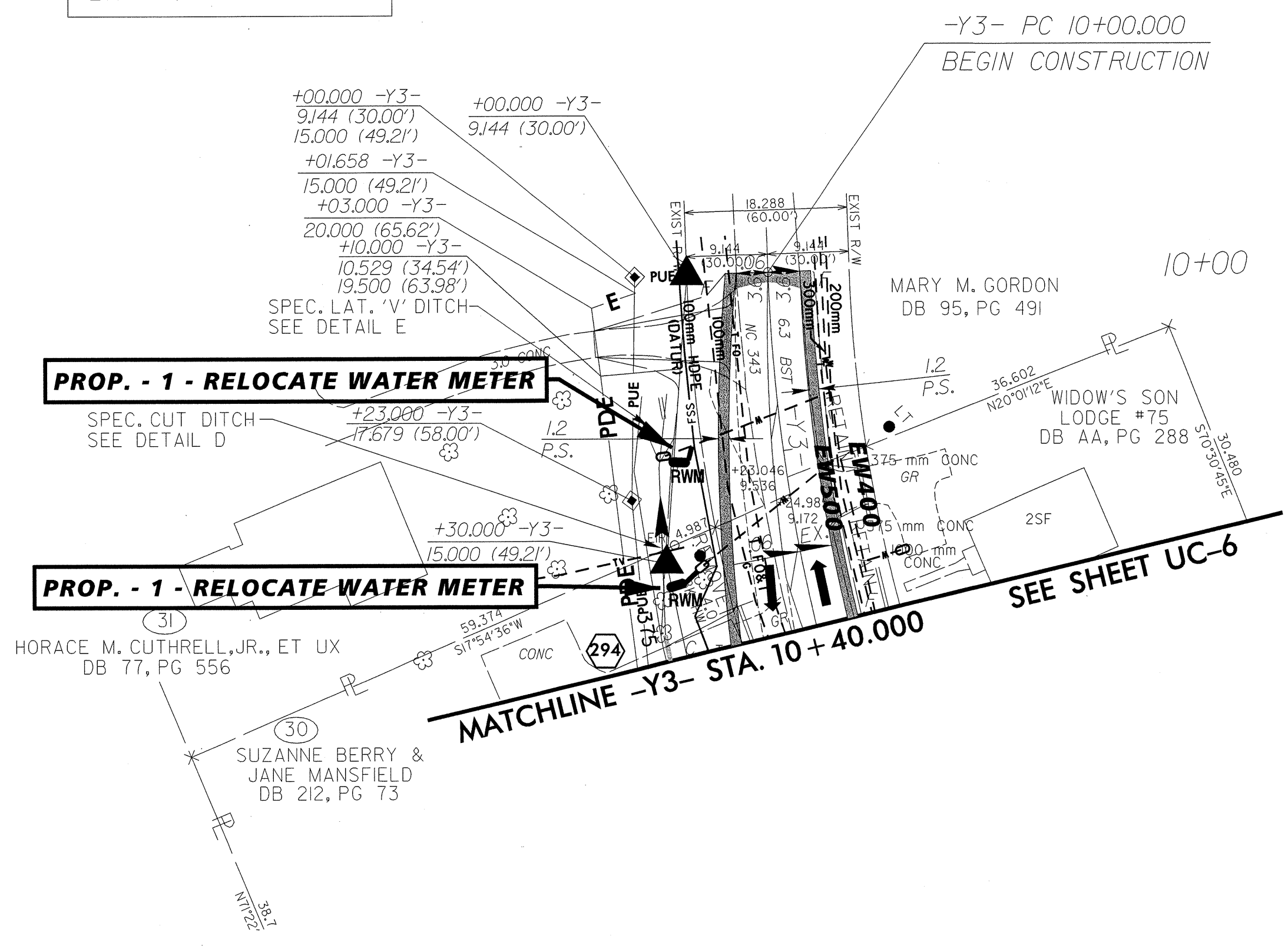
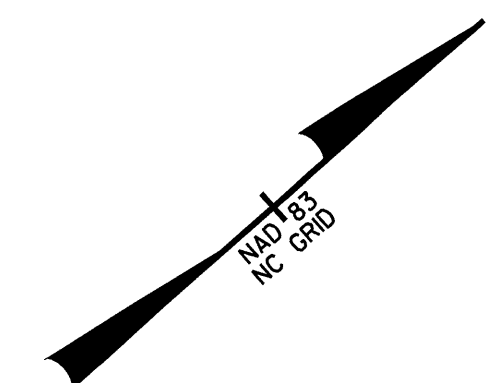
UTILITY CONSTRUCTION PLANS DESIGNED BY:
DAVIS-MARTIN-POWELL & ASSOCIATES, INC.
 ENGINEERING-LAND PLANNING-SURVEYING
 6415 OLD PLANK ROAD
 HIGH POINT, NC 27285
 PHONE: (336) 886-4621 FAX: (336) 886-4458



| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-2414B | UC-16 |
| DESIGNED BY: DMP | |
| DRAWN BY: DMP | |
| CHECKED BY: DMP | |
| APPROVED BY: | |
| REVISER: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119 | |
| UTILITY CONSTRUCTION PLANS ONLY | |



-Y3-
 PI Sta 10+39.147
 $\Delta = 22^\circ 21' 27.9''$ (LT)
 L = 77.299
 T = 39.147
 R = 198.093
 BK = S 50° 33' 28.3" E



125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

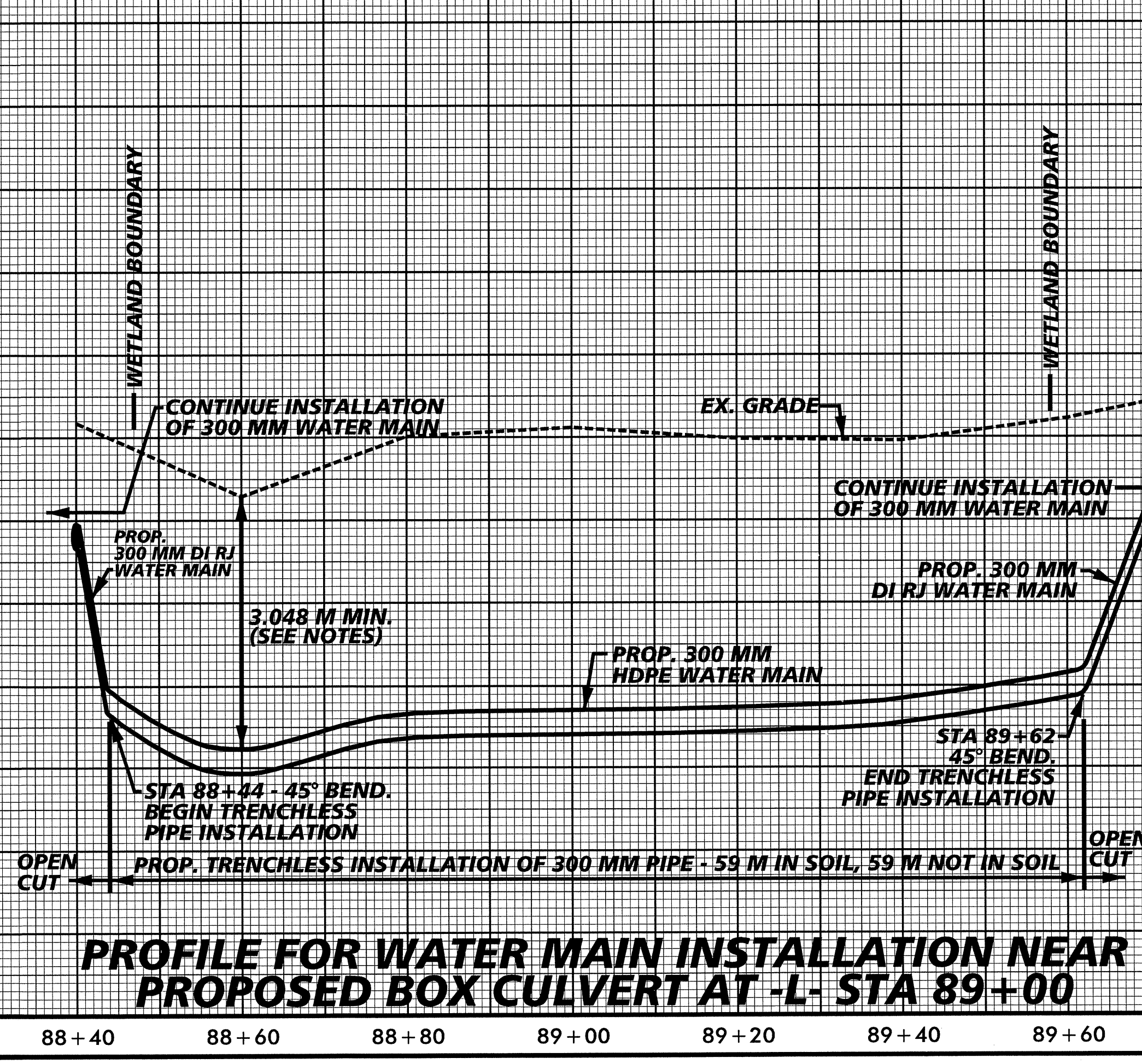
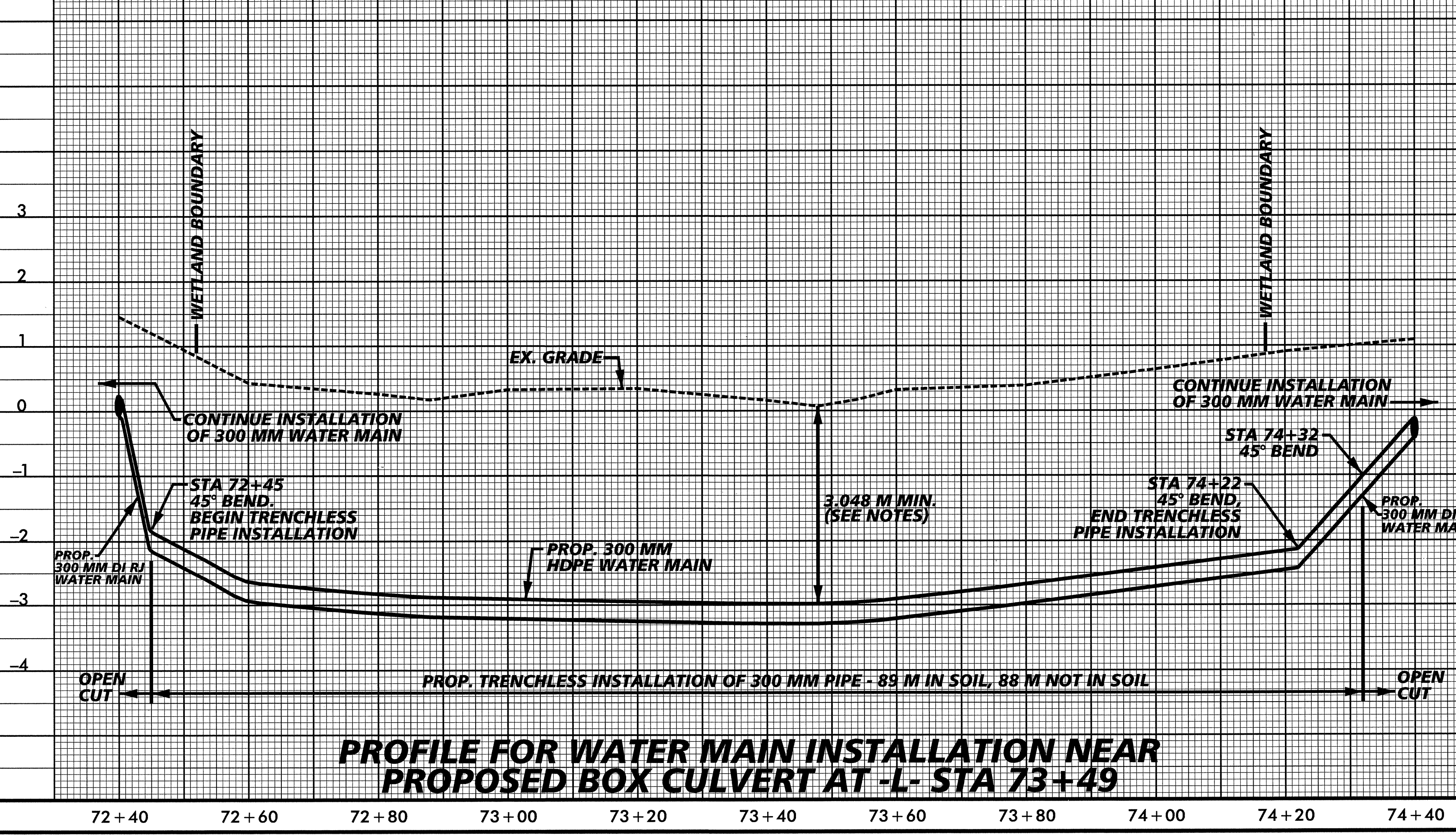
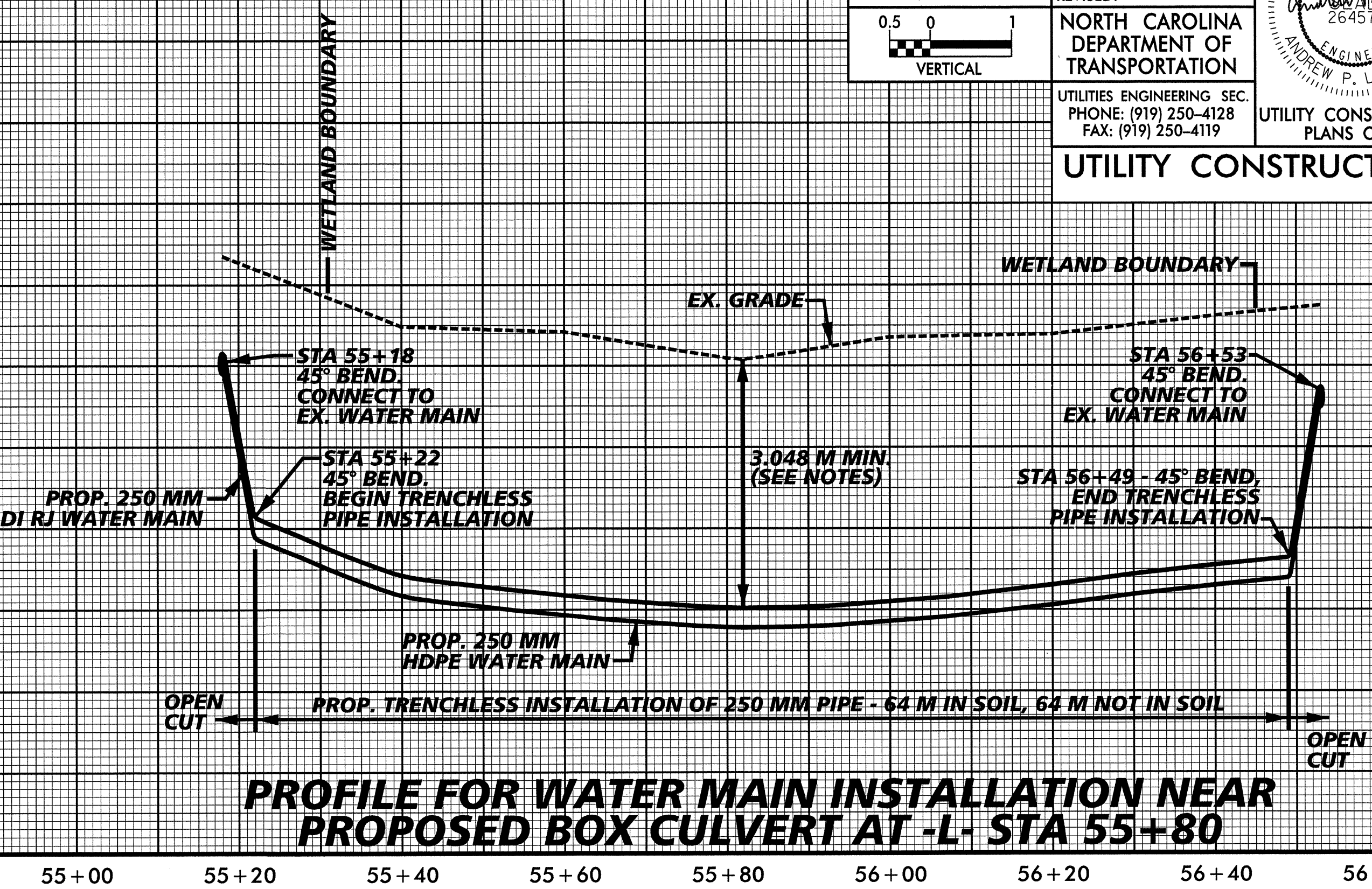
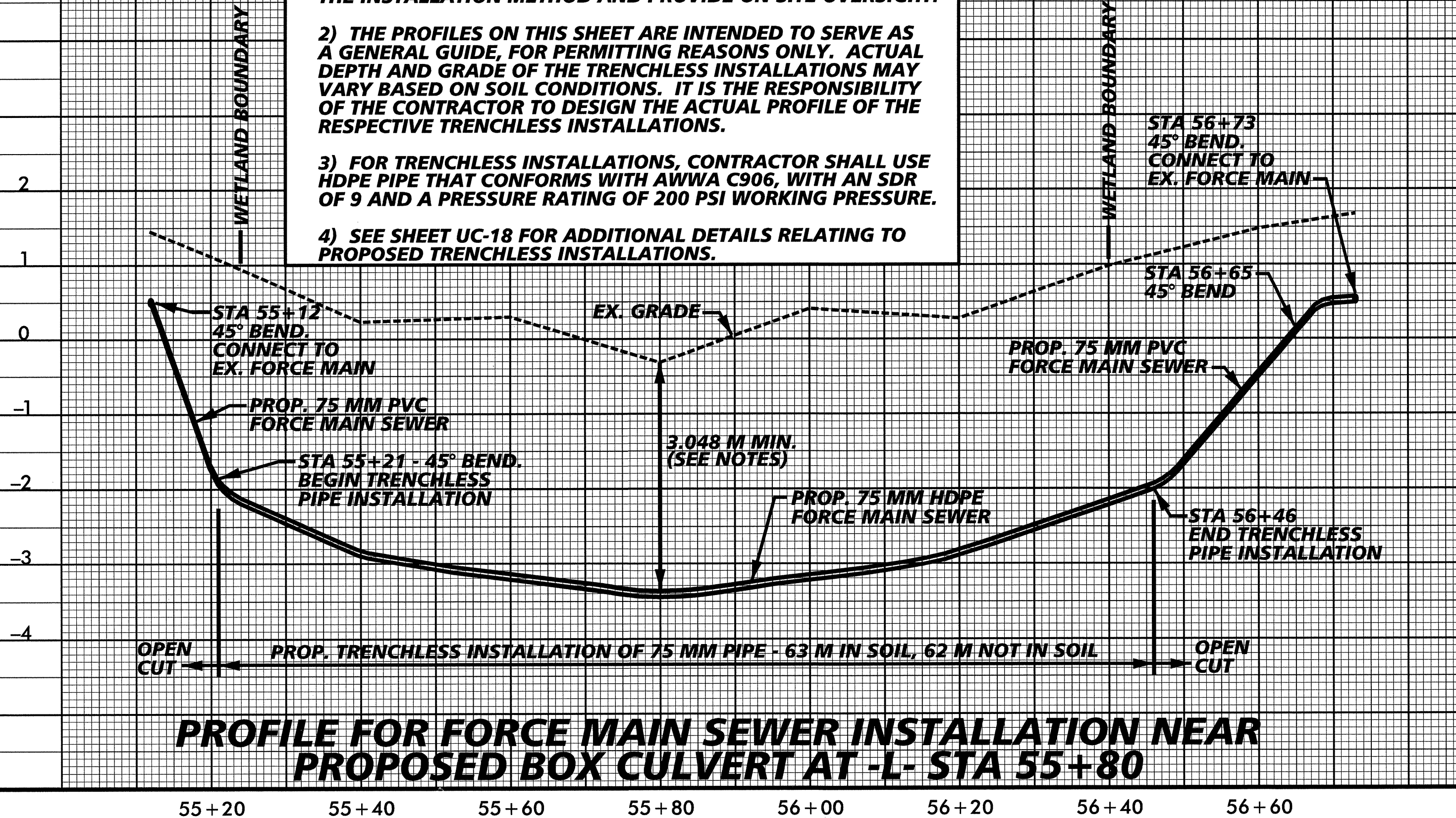
TRENCHLESS INSTALLATION NOTES (APPLIES TO ALL PROFILES):

- 1) THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING THE TRENCHLESS INSTALLATION. NO DAMAGE IS ALLOWED TO THE WETLAND OR STREAM BY THE TRENCHLESS INSTALLATION. THE CONTRACTOR'S ENGINEER SHALL DESIGN THE INSTALLATION METHOD AND PROVIDE ON-SITE OVERSIGHT.
- 2) THE PROFILES ON THIS SHEET ARE INTENDED TO SERVE AS A GENERAL GUIDE, FOR PERMITTING REASONS ONLY. ACTUAL DEPTH AND GRADE OF THE TRENCHLESS INSTALLATIONS MAY VARY BASED ON SOIL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN THE ACTUAL PROFILE OF THE RESPECTIVE TRENCHLESS INSTALLATIONS.
- 3) FOR TRENCHLESS INSTALLATIONS, CONTRACTOR SHALL USE HDPE PIPE THAT CONFORMS WITH AWWA C906, WITH AN SDR OF 9 AND A PRESSURE RATING OF 200 PSI WORKING PRESSURE.
- 4) SEE SHEET UC-18 FOR ADDITIONAL DETAILS RELATING TO PROPOSED TRENCHLESS INSTALLATIONS.

| | | |
|---|---|---|
| <p style="font-size: 8px; margin: 0;">UTILITY CONSTRUCTION PLANS DESIGNED BY: DAVIS-MARTIN-POWELL & ASSOCIATES, INC. ENGINEERING-LAND PLANNING-SURVEYING 6415 OLD PLANK ROAD HIGH POINT, NC 27265 PHONE: (336) 886-4821 FAX: (336) 886-4458</p> | PROJECT REFERENCE NO. R-2414B | SHEET NO. UC-17 |
| | DESIGNED BY: DMP | |
| | DRAWN BY: DMP | |
| | CHECKED BY: DMP | |
| | APPROVED BY: | |
| | REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | | <p style="font-size: 8px; margin: 0;">UTILITY CONSTRUCTION PLANS ONLY</p> |

HORIZONTAL

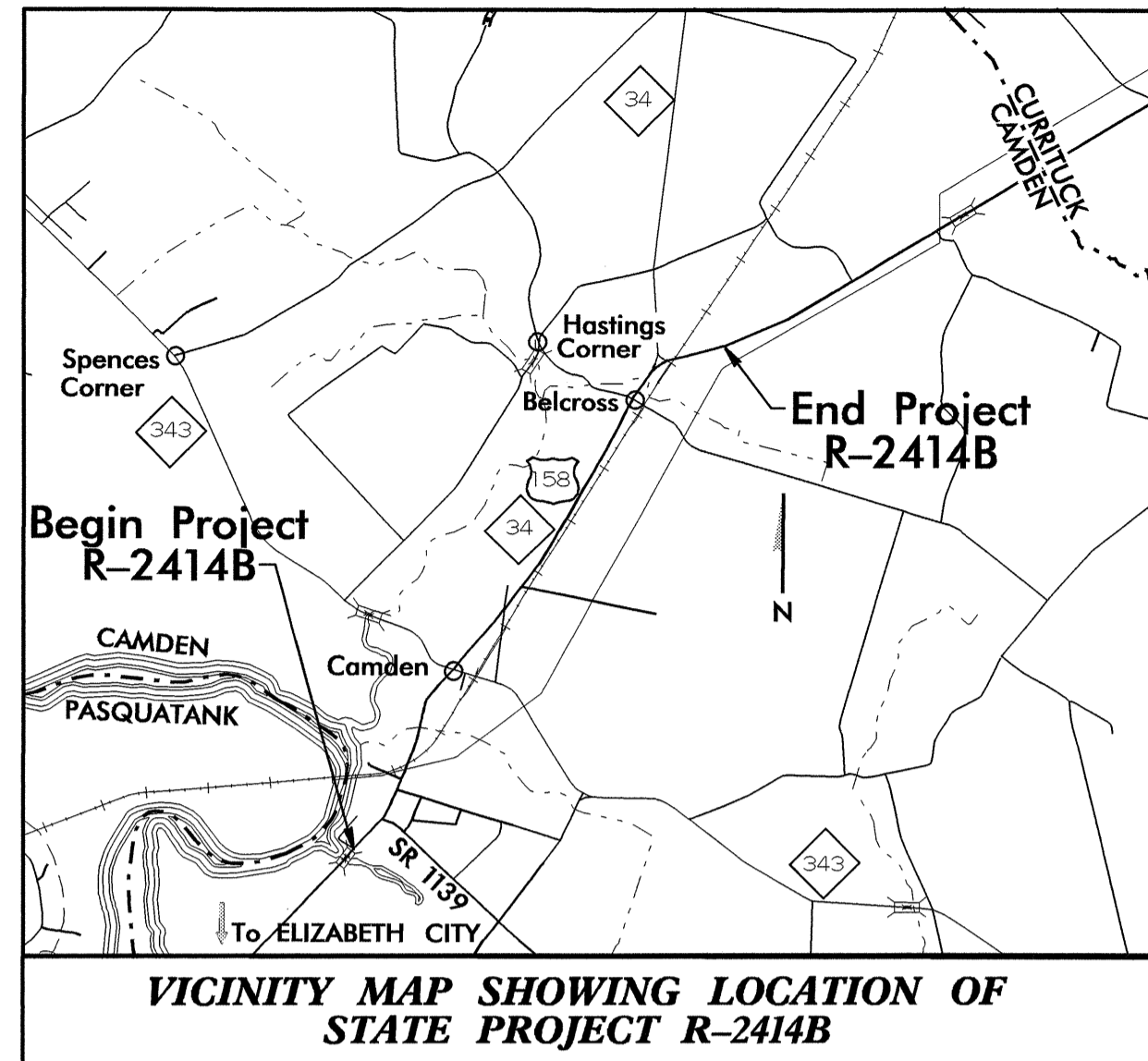
VERTICAL



09/08/99

TIP PROJECT: R-2414B

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS
CAMDEN COUNTY**

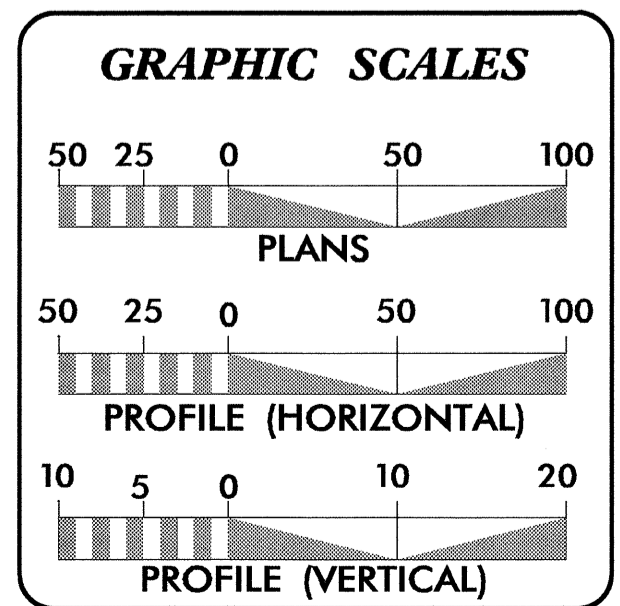
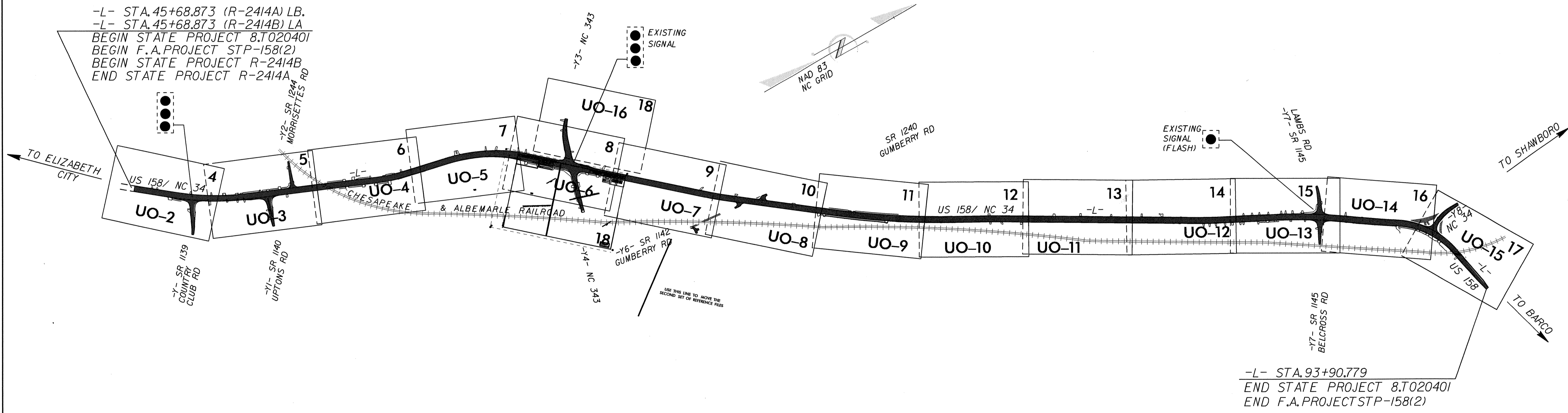
**LOCATION: US 158-NC 34 FROM SOUTH OF SR 1257
TO EAST OF NC 34 IN BELCROSS**

TYPE OF WORK: UTILITIES RELOCATION

METRIC

ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE SHOWN

| | |
|----------------|-------------|
| T.I.P. NO. | SHEET NO. |
| R-2414B | UO-1 |



INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------------|--------------|
| UO-1 | TITLE SHEET |
| UO-2 THRU UO-16 | PLANS SHEETS |

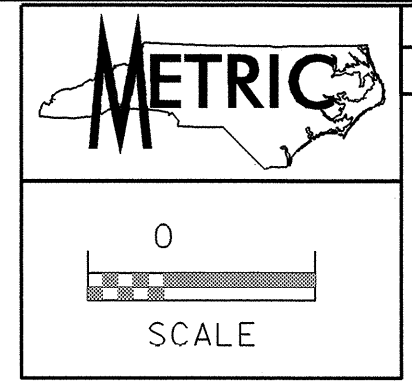
- UTILITY OWNERS ON PROJECT**
- PIEDMONT NATURAL GAS
 - DOMINION POWER
 - CHARTER CATV
 - CENTURY LINK
 - MEDIACOM

PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
DESIGN 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
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Britt McCurry UTILITIES PROJECT DESIGNER

02-MAY-2011 15:13
R:\UHT\files\RDy_UF\Proj\2414b_ut_uol_tsh.dgn
kkamil AT UCU237482



UTILITIES BY OTHERS

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

8/17/99
R-2414B UO-2
R-2414B UO-2
R-2414B UO-2

ROBERT F. MASSIELLO, ET UX
DB III, PG 705
DB 46, PG 260 (MAP)

GEORGE T. GRIFFIN, ET UX
DB 52, PG 687
DB 46, PG 260 (MAP)

O.C. ABBOTT
DB 54, PG 429

ROSALYN J. FAIRCLOTH
ISBKD
DB 80, PG 392
DB 46, PG 260 (MAP)

JAMIE H. WOOTON, ET AL
ISBKD
DB 106, PG 689
DB 46, PG 260 (MAP)

PECAN FARMS, LLC
DB 237, PG 728

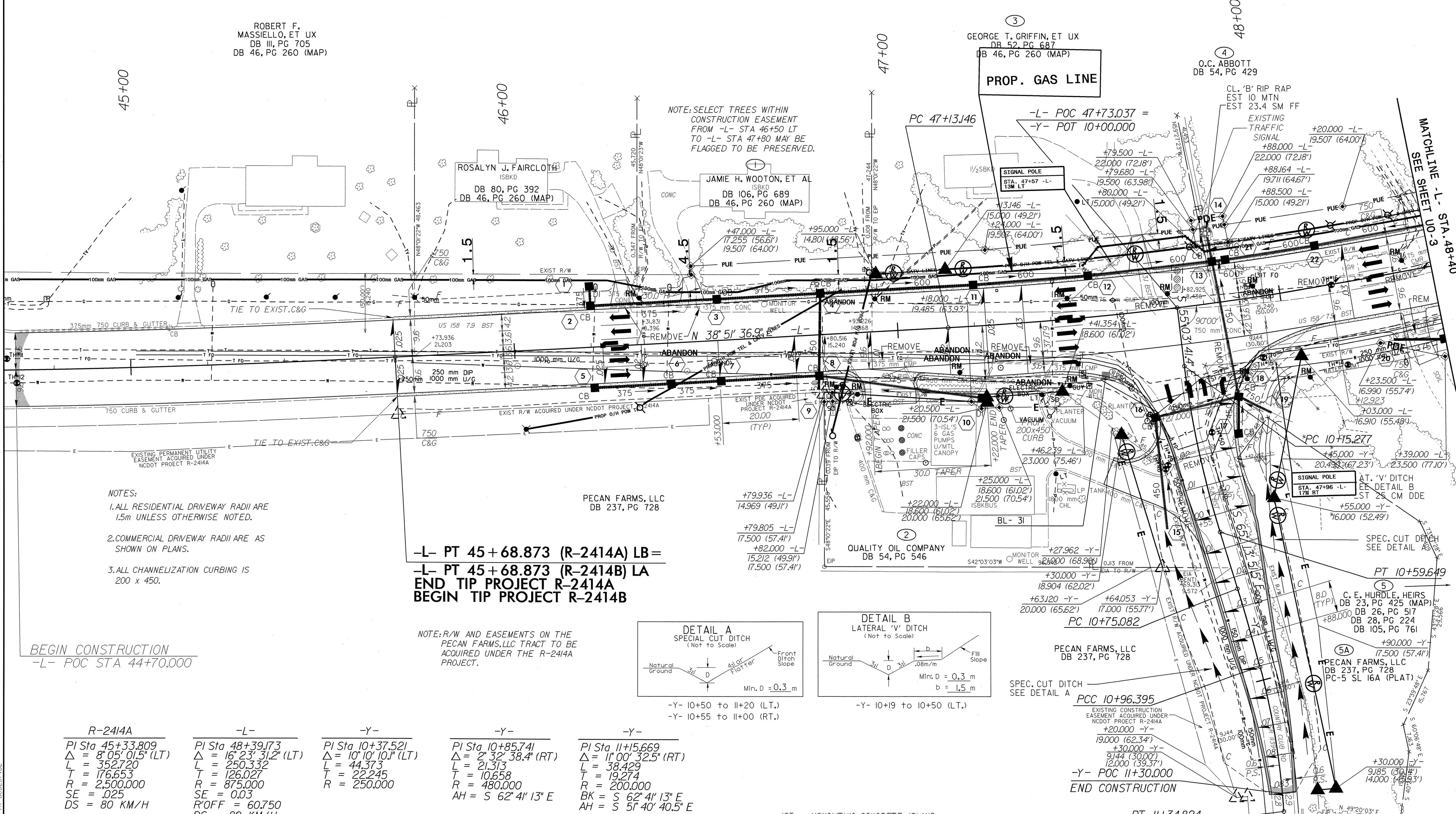
QUALITY OIL COMPANY
DB 54, PG 546

PECAN FARMS, LLC
DB 237, PG 728

C. E. HURDLE, HEIRS
DB 23, PG 425 (MAP)
DB 26, PG 517
DB 28, PG 224
DB 105, PG 761

PECAN FARMS, LLC
DB 237, PG 728
PC-5 SL 16A (PLAT)

NOTE: SELECT TREES WITHIN CONSTRUCTION EASEMENT FROM -L- STA 46+50 LT TO -L- STA 47+80 MAY BE FLAGGED TO BE PRESERVED.

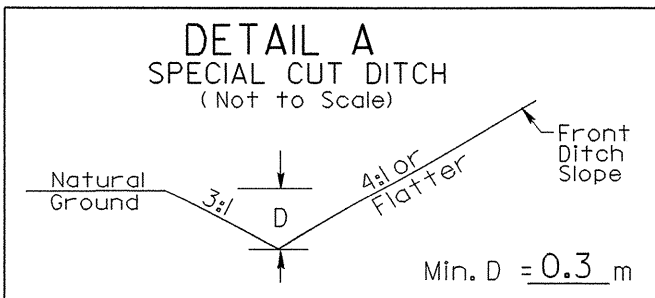


- NOTES:
- 1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 - 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 - 3. ALL CHANNELIZATION CURBING IS 200 x 450.

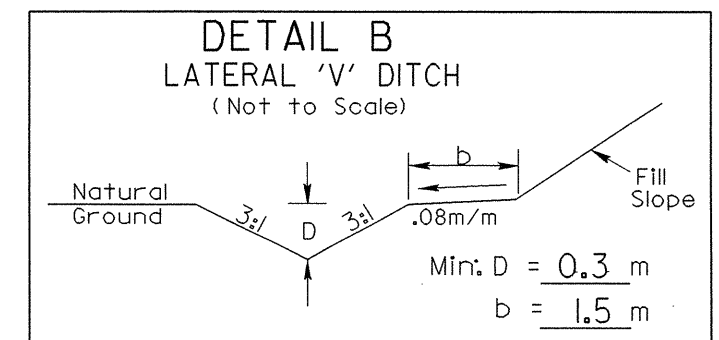
BEGIN CONSTRUCTION
-L- POC STA 44+70.000

-L- PT 45+68.873 (R-2414A) LB=
-L- PT 45+68.873 (R-2414B) LA
END TIP PROJECT R-2414A
BEGIN TIP PROJECT R-2414B

NOTE: R/W AND EASEMENTS ON THE PECAN FARMS, LLC TRACT TO BE ACQUIRED UNDER THE R-2414A PROJECT.



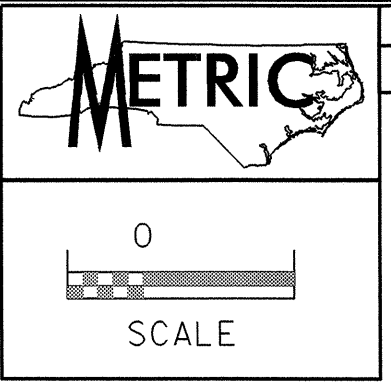
-Y- 10+50 to 11+20 (LT.)
-Y- 10+55 to 11+00 (RT.)



-Y- 10+19 to 10+50 (LT.)

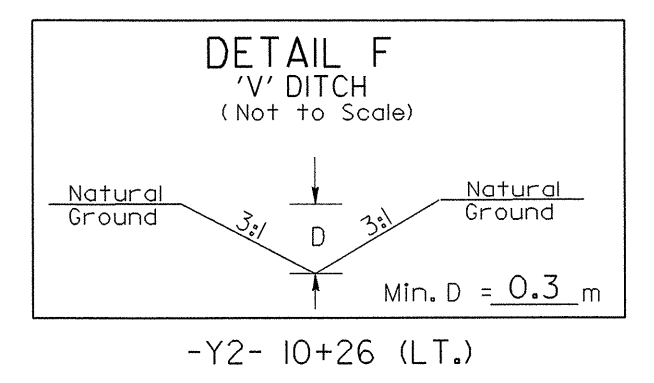
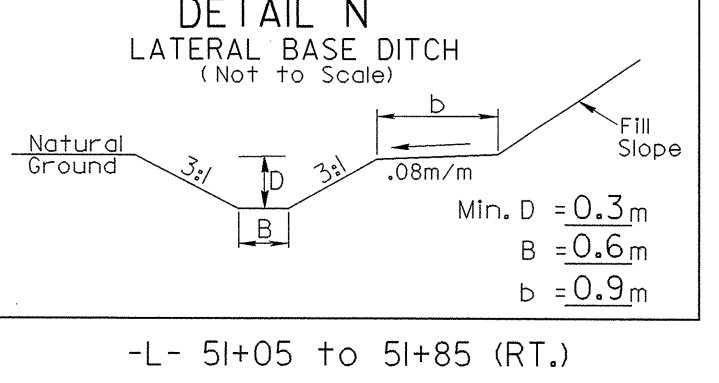
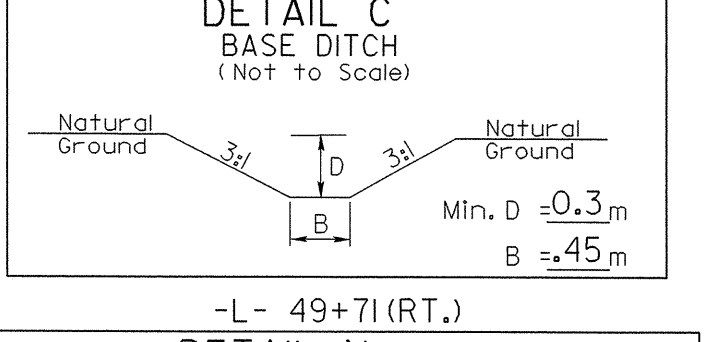
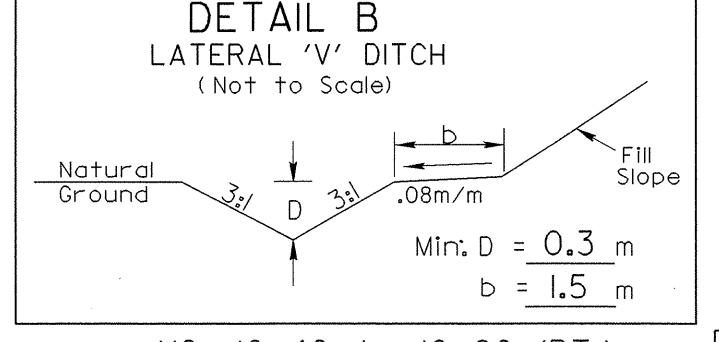
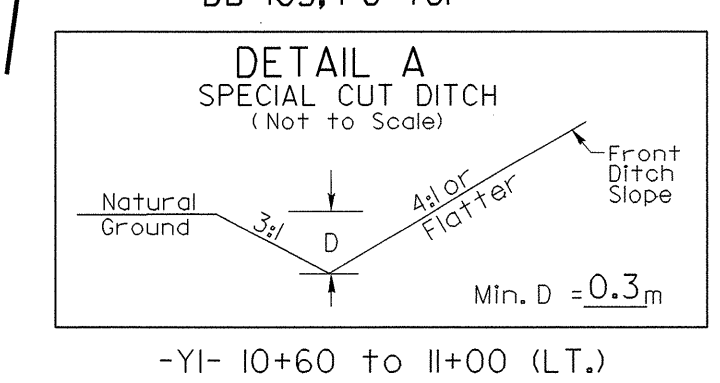
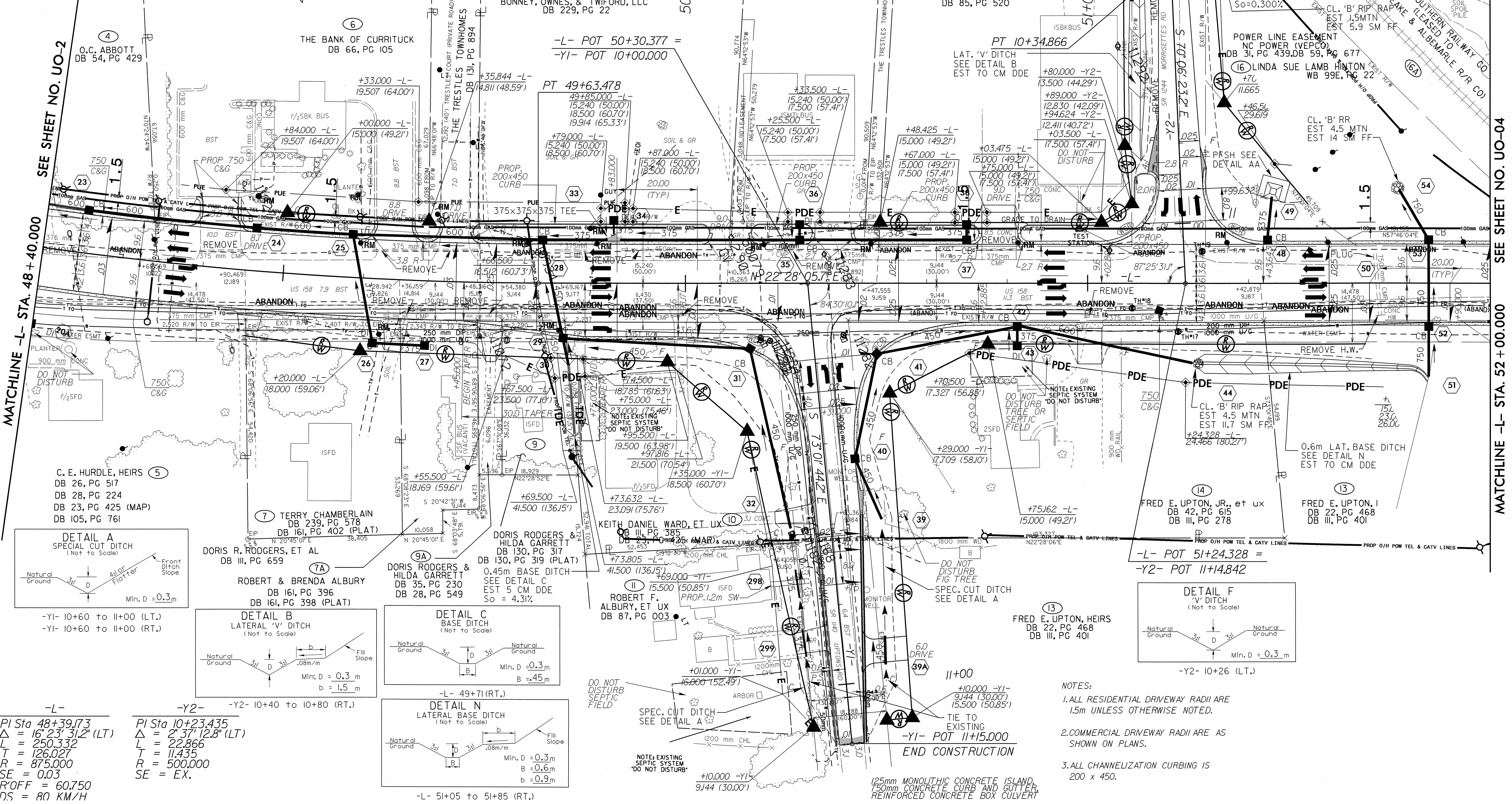
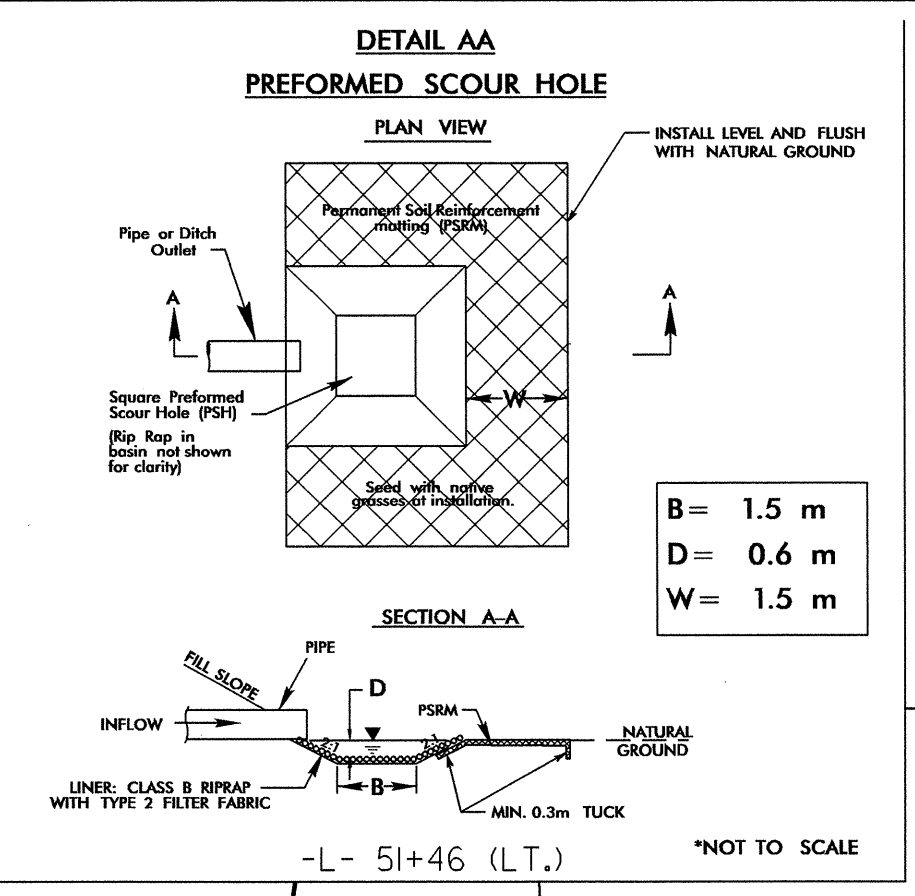
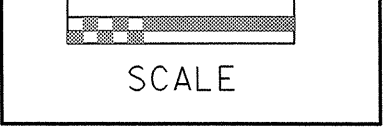
| R-2414A | -L- | -Y- | -Y- | -Y- |
|-----------------------|------------------------|------------------------|------------------------|------------------------|
| PI Sta 45+33.809 | PI Sta 48+39.173 | PI Sta 10+37.521 | PI Sta 10+85.741 | PI Sta 11+15.669 |
| Δ = 8° 05' 01.5" (LT) | Δ = 16° 23' 31.2" (LT) | Δ = 10° 10' 10.1" (LT) | Δ = 2° 32' 38.4" (RT) | Δ = 11° 00' 32.5" (RT) |
| L = 352.720 | L = 250.332 | L = 44.373 | L = 21.313 | L = 38.429 |
| T = 176.653 | T = 126.027 | T = 22.245 | T = 10.658 | T = 19.274 |
| R = 2,500.000 | R = 875.000 | R = 250.000 | R = 480.000 | R = 200.000 |
| SE = .025 | SE = 0.03 | | | |
| DS = 80 KM/H | R/OFF = 60.750 | | AH = S 62° 41' 13" E | BK = S 62° 41' 13" E |
| | DS = 80 KM/H | | AH = S 51° 40' 40.5" E | AH = S 51° 40' 40.5" E |

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT



UTILITIES BY OTHERS

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



-L-

PI Sta 48+39.73
Δ = 16° 23' 31.2" (LT.)
L = 250.332
T = 126.027
R = 875.000
SE = 0.03
R'OFF = 60.750
DS = 80 KM/H

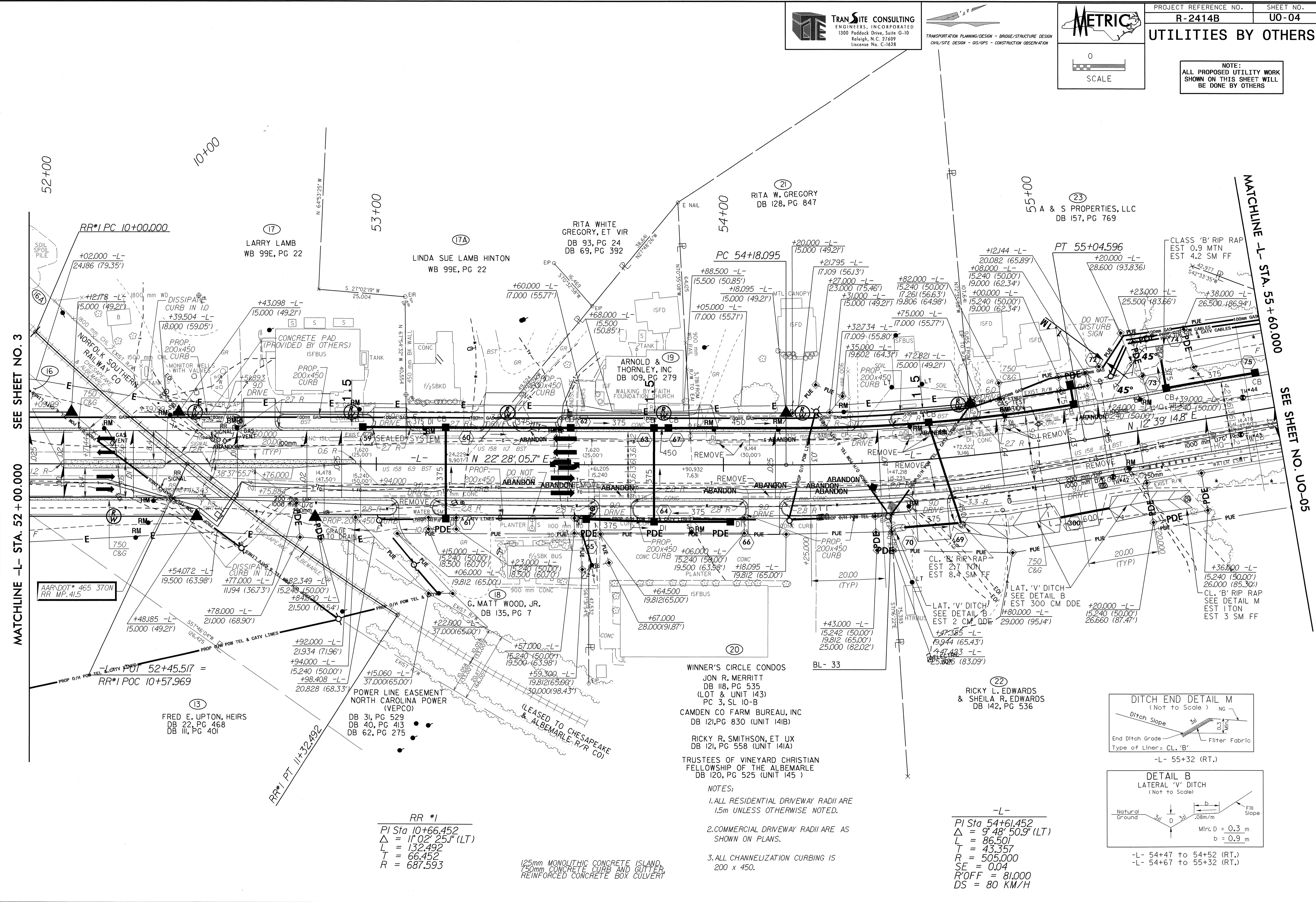
-Y2-

PI Sta 10+23.435
Δ = 2° 37' 12.8" (LT.)
L = 22.866
T = 11.435
R = 500.000
SE = EX.

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

125mm MONOLITHIC CONCRETE ISLAND,
150mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

03-MAY-2010 08:21
C:\projects\2414b\UT_NEW\U03.dgn



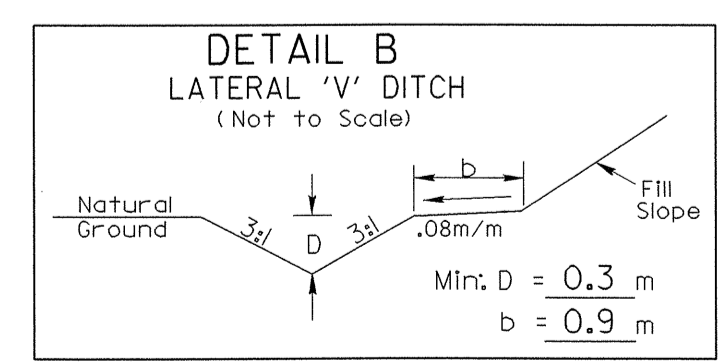
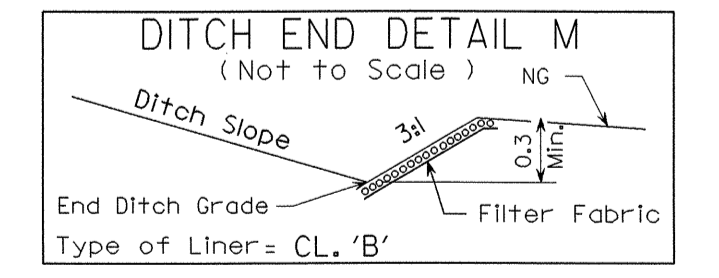
MATCHLINE -L- STA. 52+00.000 SEE SHEET NO. 3
MATCHLINE -L- STA. 55+60.000 SEE SHEET NO. U0-05

RR #1
PI Sta 10+66.452
 $\Delta = 11^{\circ}02'25.1''$ (LT)
L = 132.492
T = 66.452
R = 687.593

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

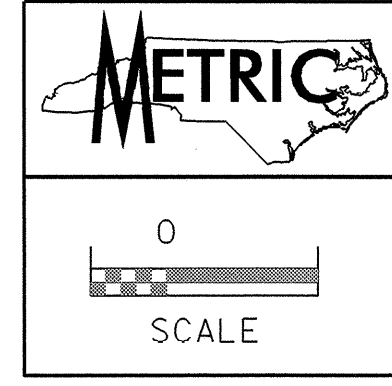
WINNER'S CIRCLE CONDOS
JON R. MERRITT
DB 118, PG 535
(LOT & UNIT 143)
PC 3, SL 10-B
CAMDEN CO FARM BUREAU, INC
DB 121, PG 830 (UNIT 141B)
RICKY R. SMITHSON, ET UX
DB 121, PG 558 (UNIT 141A)
TRUSTEES OF VINEYARD CHRISTIAN
FELLOWSHIP OF THE ALBEMARLE
DB 120, PG 525 (UNIT 145)

-L-
PI Sta 54+61.452
 $\Delta = 9^{\circ}48'50.9''$ (RT)
L = 86.501
T = 43.357
R = 505.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H



- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

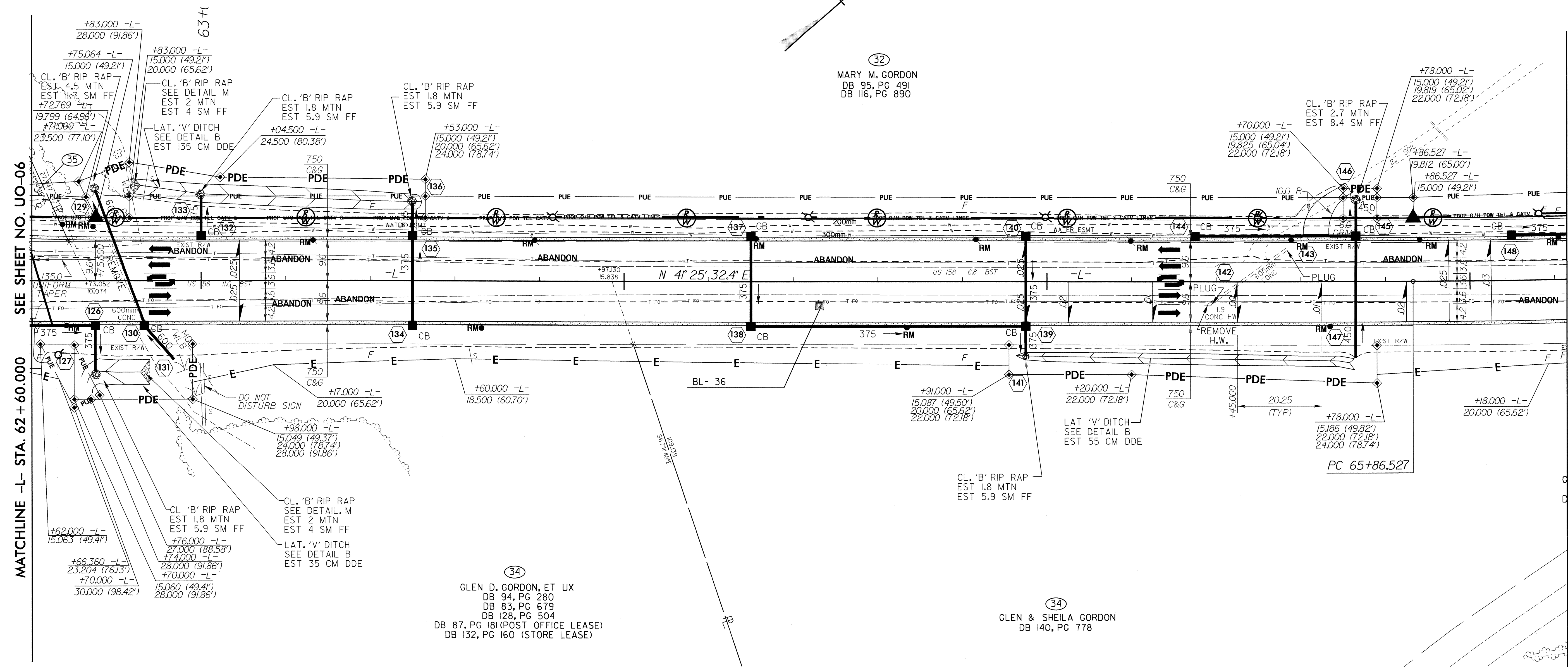
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PROJECT REFERENCE NO. R-2414B SHEET NO. U0-07

UTILITIES BY OTHERS

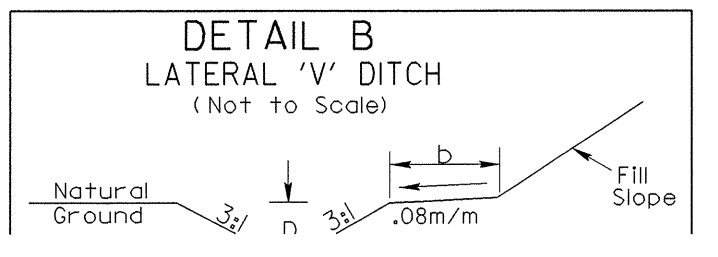
NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS



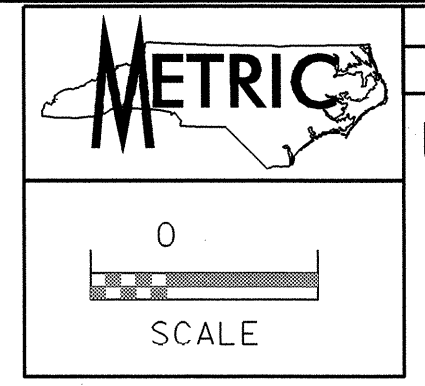
SEE SHEET NO. UO-06

MATCHLINE -L- STA. 62 + 60.000

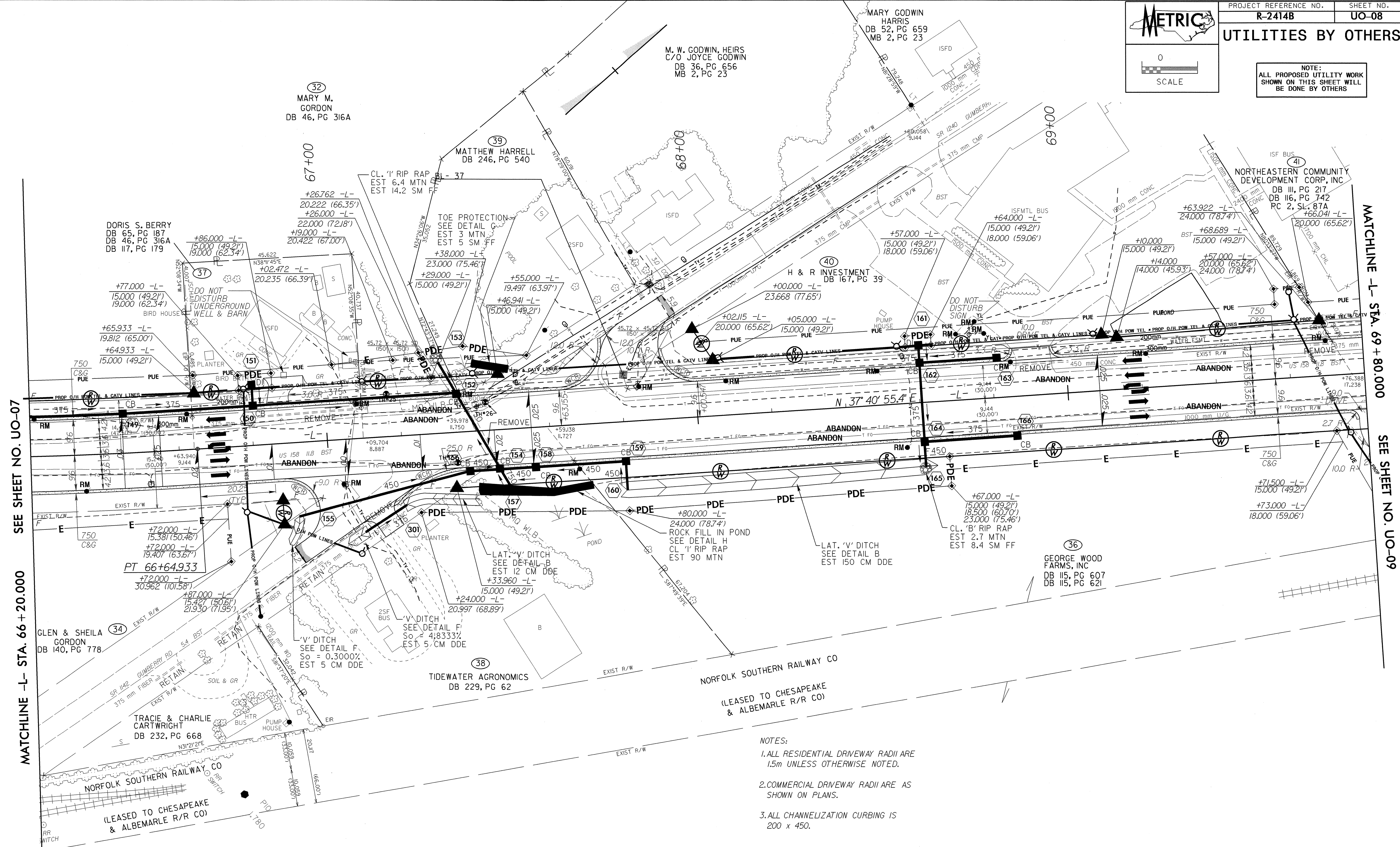
MATCHLINE -L- STA. 66 + 20.000 SEE SHEET NO. UO-08



09-MAY-2011 09:58 R:\U001\110007\110007.dwg R:\U001\110007\110007.dwg AT 110007.dwg



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



SEE SHEET NO. UO-07

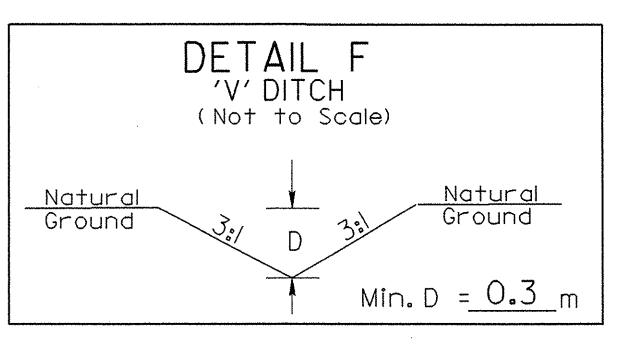
MATCHLINE -L- STA. 66+20.000

MATCHLINE -L- STA. 69+80.000 SEE SHEET NO. UO-09

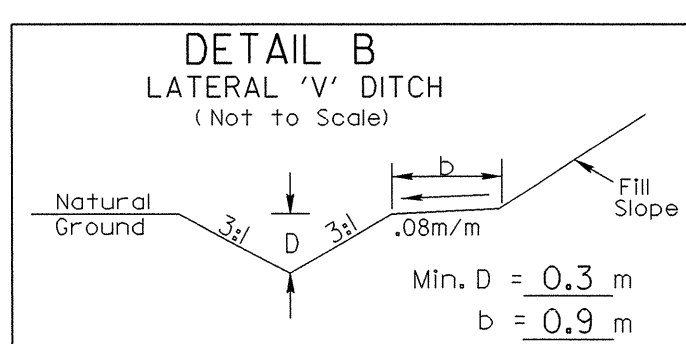
- NOTES:**
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

-L-
PI Sta 66+25.744
 $\Delta = 3^\circ 44' 37.0''$ (LT)
 $L = 78.406$
 $T = 39.217$
 $R = 1,200,000$
 $SE = 0.03$
 $R'OFF = 60.750$
 $DS = 80$ KM/H

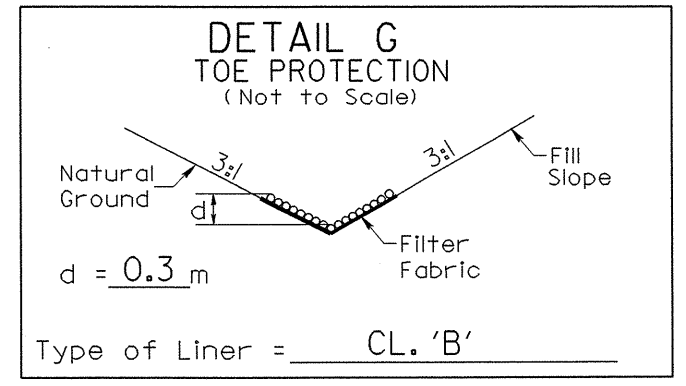
PAVEMENT REMOVAL
125mm MONOLITHIC CONCRETE ISLAND,
75mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT



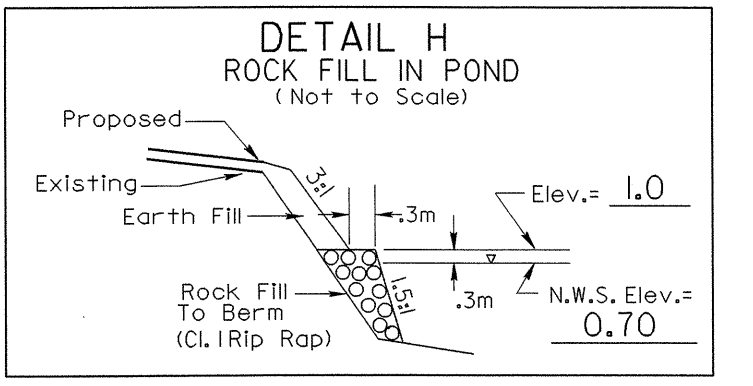
-L- 66+87 (RT.)
-L- 67+06 (RT.)



-L- 67+23 to 67+41 (RT.)
-L- 67+80 to 68+60 (RT.)

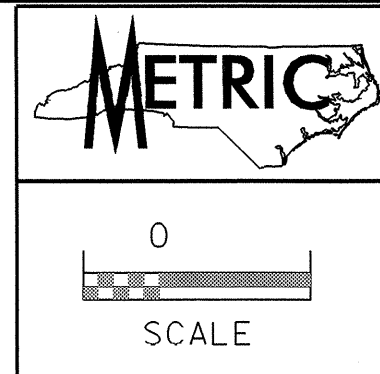


Type of Liner = CL 'B'
-L- 67+40 to 67+50 (LT.)



-L- 67+41 to 67+69 (RT.)

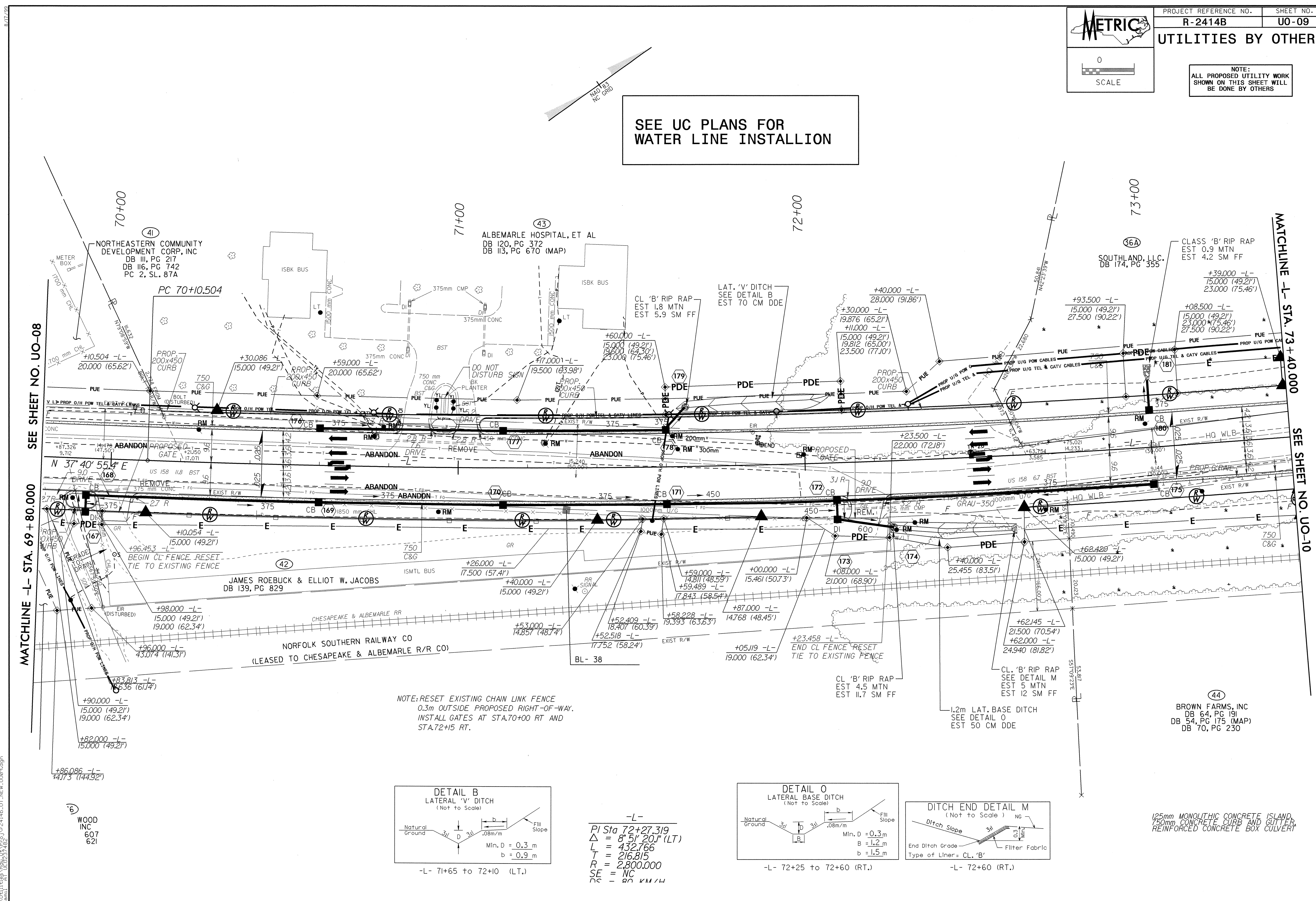
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UTILITIES BY OTHERS

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

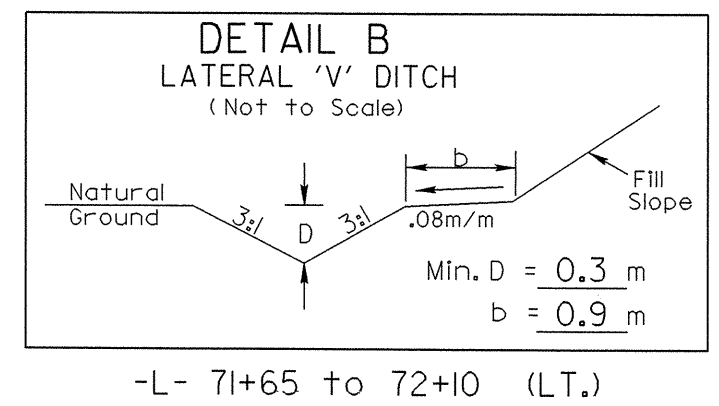
SEE UC PLANS FOR WATER LINE INSTALLION



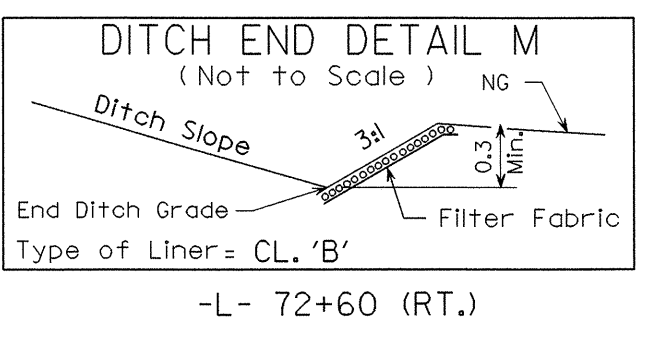
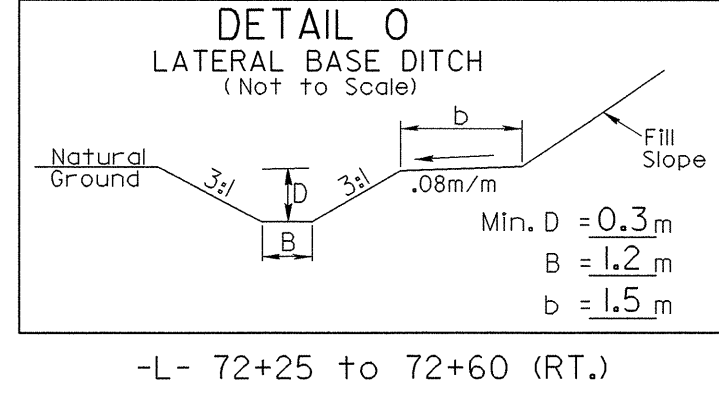
MATCHLINE -L- STA. 69 + 80.000 SEE SHEET NO. UO-08

MATCHLINE -L- STA. 73 + 40.000 SEE SHEET NO. UO-10

NOTE: RESET EXISTING CHAIN LINK FENCE 0.3m OUTSIDE PROPOSED RIGHT-OF-WAY. INSTALL GATES AT STA.70+00 RT AND STA.72+15 RT.



-L- PI Sta 72+27.319 Δ = 8' 5" 20.1" (LT) L = 432.766 T = 216.815 R = 2,800.000 SE = NC DS = 80 KM/H

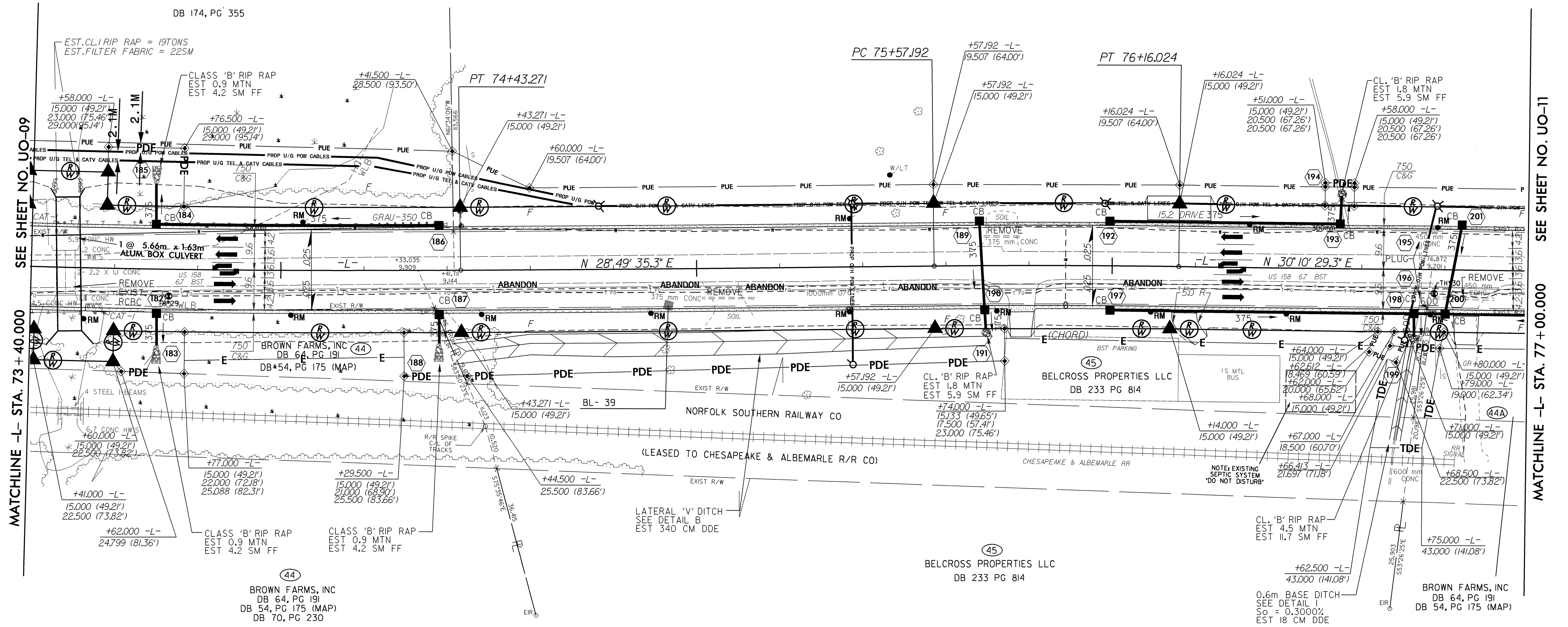


125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT

09-MAY-2011 09:19
R:\UO\UO-09\UO-09.dgn
User: j...
Plot: UO-09.dwg

WOOD INC 607 621

SEE UC PLANS FOR
WATER LINE INSTALLION

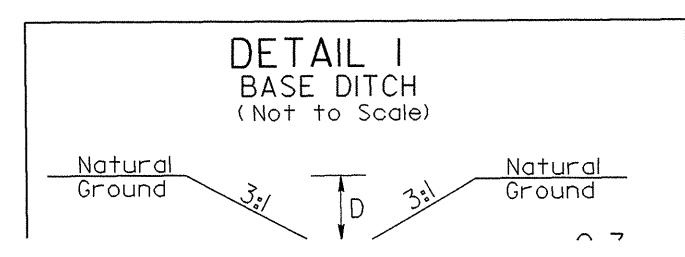
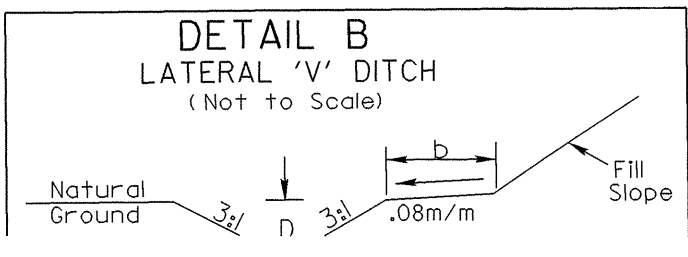


SEE SHEET NO. UO-09

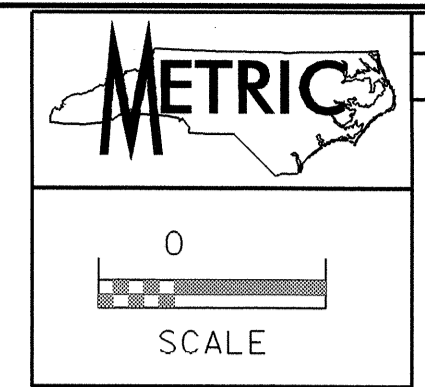
MATCHLINE -L- STA. 73 + 40.000

SEE SHEET NO. UO-11

MATCHLINE -L- STA. 77 + 00.000



09-MAY-2010 10:27
 R:\UCL\1155\Y\2414B\UT_NEW\UO10.dgn
 R:\UCL\1155\Y\2414B\UT_NEW\UO10.dgn
 R:\UCL\1155\Y\2414B\UT_NEW\UO10.dgn
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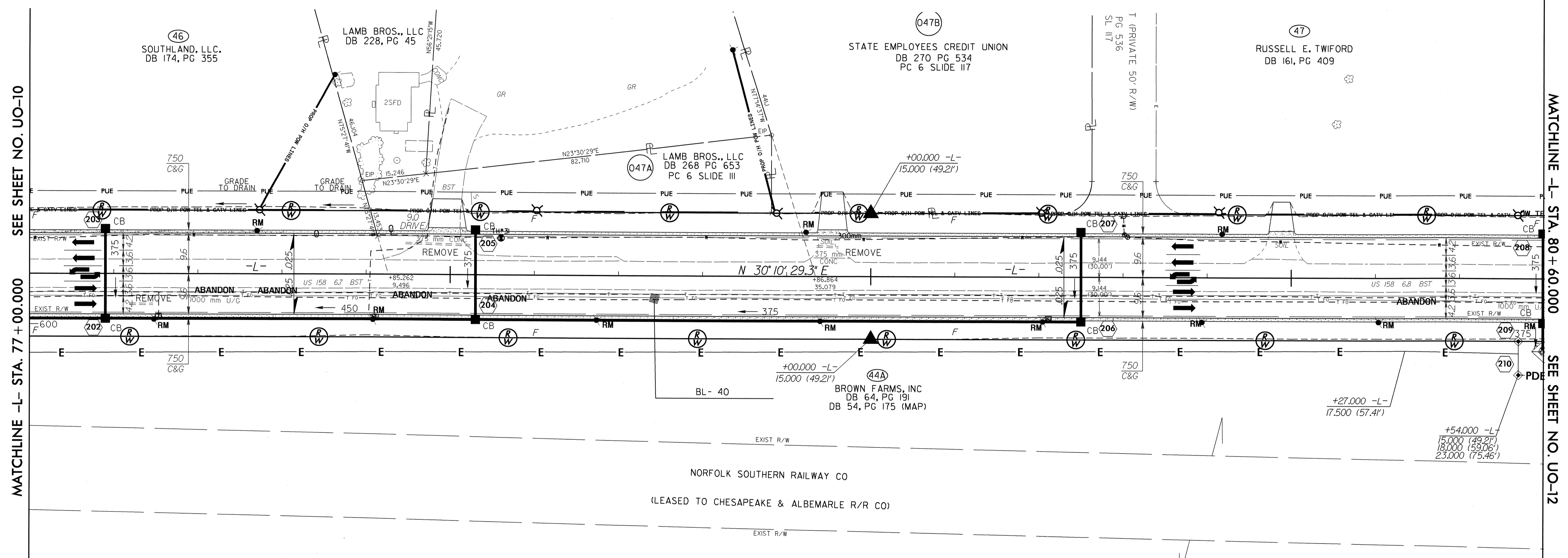
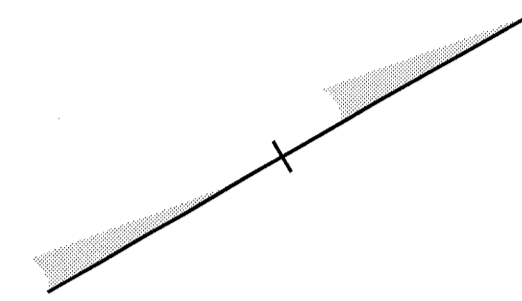


PROJECT REFERENCE NO. R-2414B SHEET NO. UO-11

UTILITIES BY OTHERS

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

- NOTES:
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.



SEE SHEET NO. UO-10

MATCHLINE -L- STA. 77 + 00.000

MATCHLINE -L- STA. 80 + 60.000

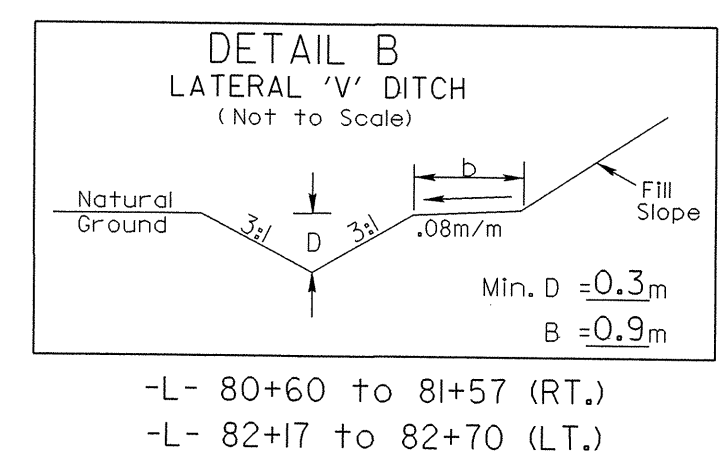
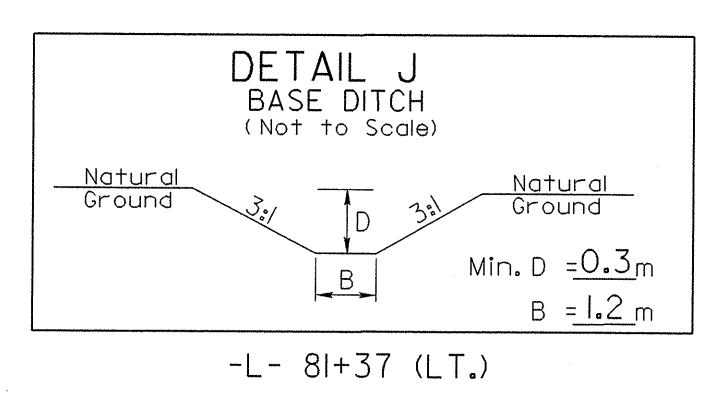
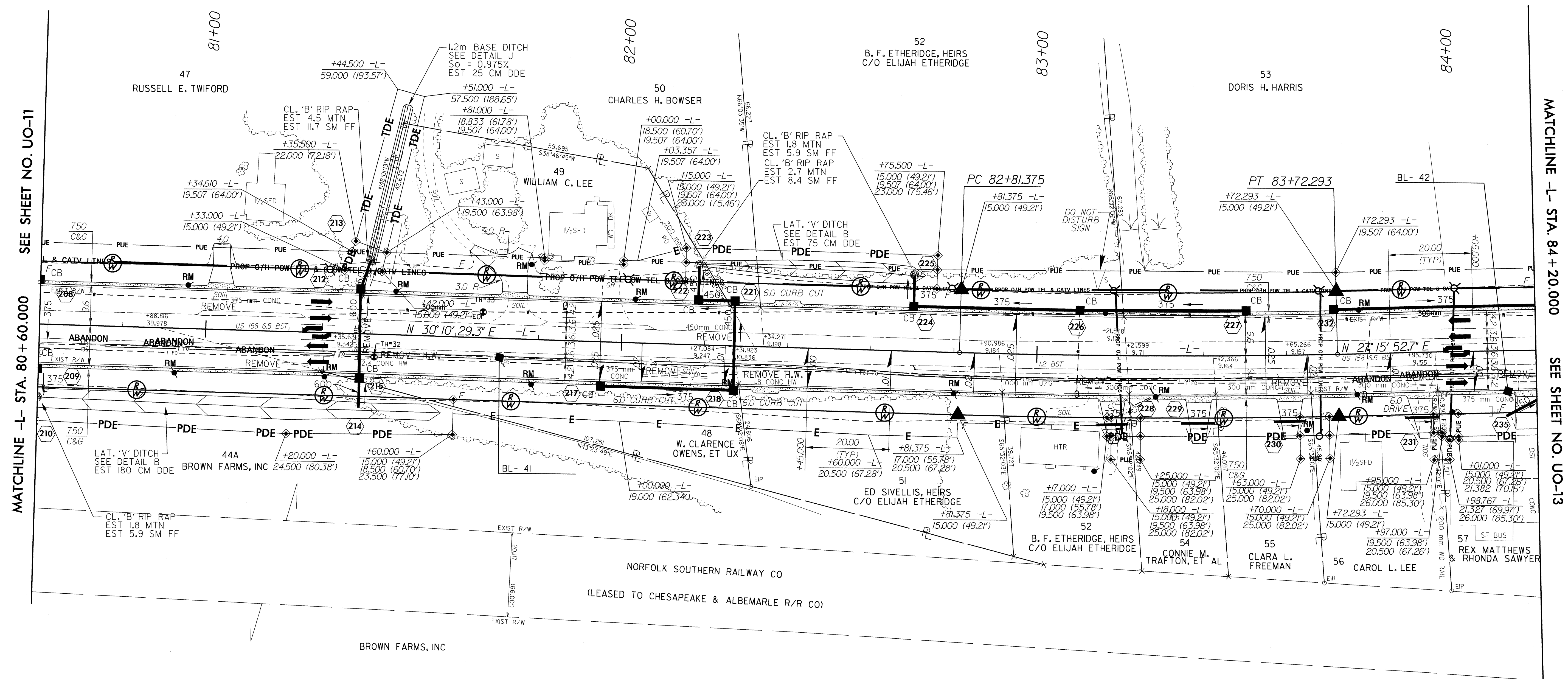
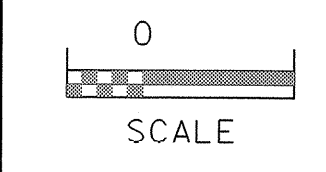
SEE SHEET NO. UO-12

NORFOLK SOUTHERN RAILWAY CO
(LEASED TO CHESAPEAKE & ALBEMARLE R/R CO)

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

28-APR-2011 08:20
R:\Utilities\Projects\2414b\UT_NEW_UO11.dgn
User: j...
Scale: 1:1000

NOTES:
 1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.



-L-
 PI Sta 83+26.844
 $\Delta = 2^\circ 54' 36.6''$ (LT)
 $L = 90.918$
 $T = 45.469$
 $R = 1,790.000$
 $SE = 0.025$
 $R/OFF = 50.625$
 $DS = 80$ KM/H

NOTE: ALL DRIVES ARE 6.0 METERS UNLESS OTHERWISE DENOTED

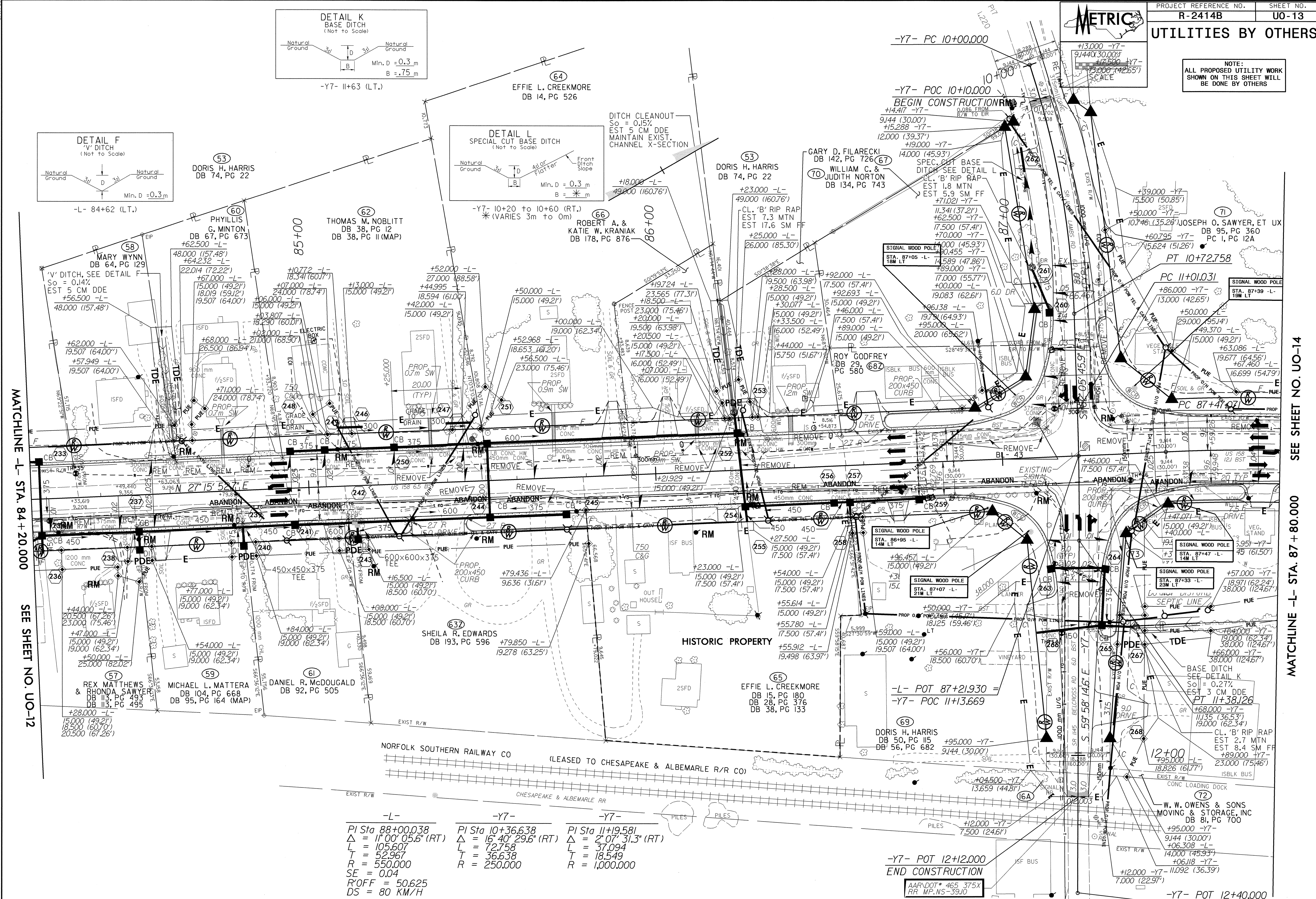
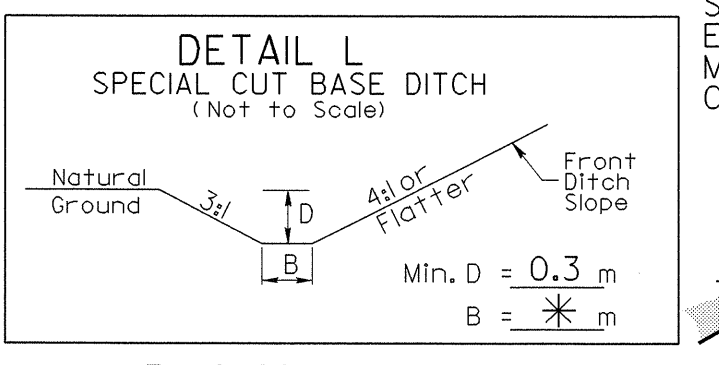
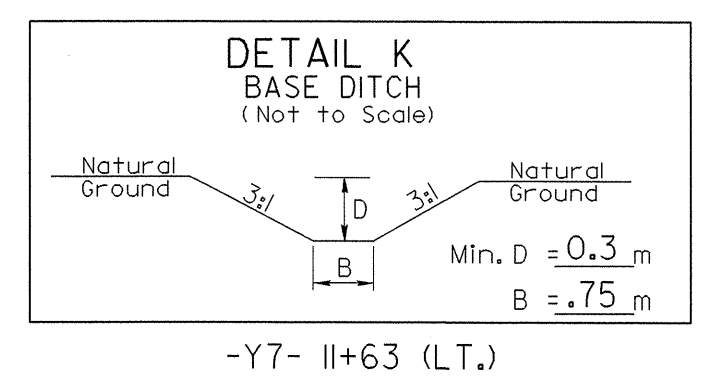
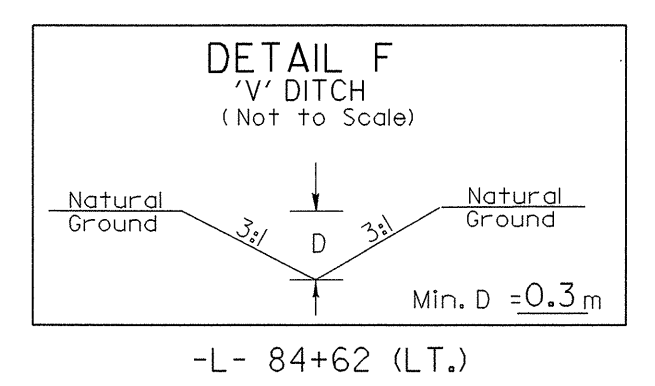
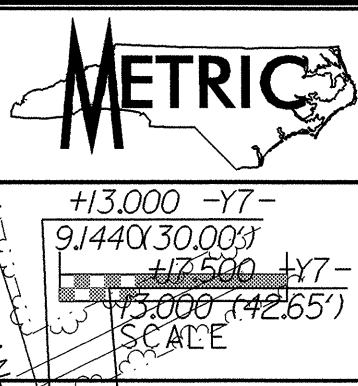
SEE SHEET NO. 24 FOR -L- GRADE AND PROFILE.

125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

28-APR-2011 09:40 AM N:\Projects\2414B\UT_NEW\UO12.dgn

UTILITIES BY OTHERS

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



MATCHLINE -L- STA. 84 + 20.000

SEE SHEET NO. UO-12

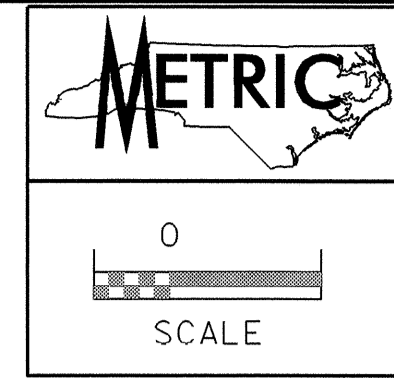
SEE SHEET NO. UO-14

MATCHLINE -L- STA. 87 + 80.000

| -L- | -Y7- | -Y7- |
|---------------------------------|---------------------------------|--------------------------------|
| PI Sta 88+00.038 | PI Sta 10+36.638 | PI Sta 11+19.581 |
| $\Delta = 11' 00'' 05.6''$ (RT) | $\Delta = 16' 40'' 29.6''$ (RT) | $\Delta = 2' 07'' 31.3''$ (RT) |
| L = 105.607 | L = 72.758 | L = 37.094 |
| T = 52.967 | T = 36.638 | T = 18.549 |
| R = 550.000 | R = 250.000 | R = 1,000.000 |
| SE = 0.04 | | |
| R'OFF = 50.625 | | |
| DS = 80 KM/H | | |

09-MAY-2011 14:53
R:\U011\exp\102433\102433.dwg
Scale: 1:1000
Plot: UO13.dwg

3. ALL CHANNELIZATION CURBING IS
200 x 450.



PROJECT REFERENCE NO. R-2414B SHEET NO. U0-14

UTILITIES BY OTHERS

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

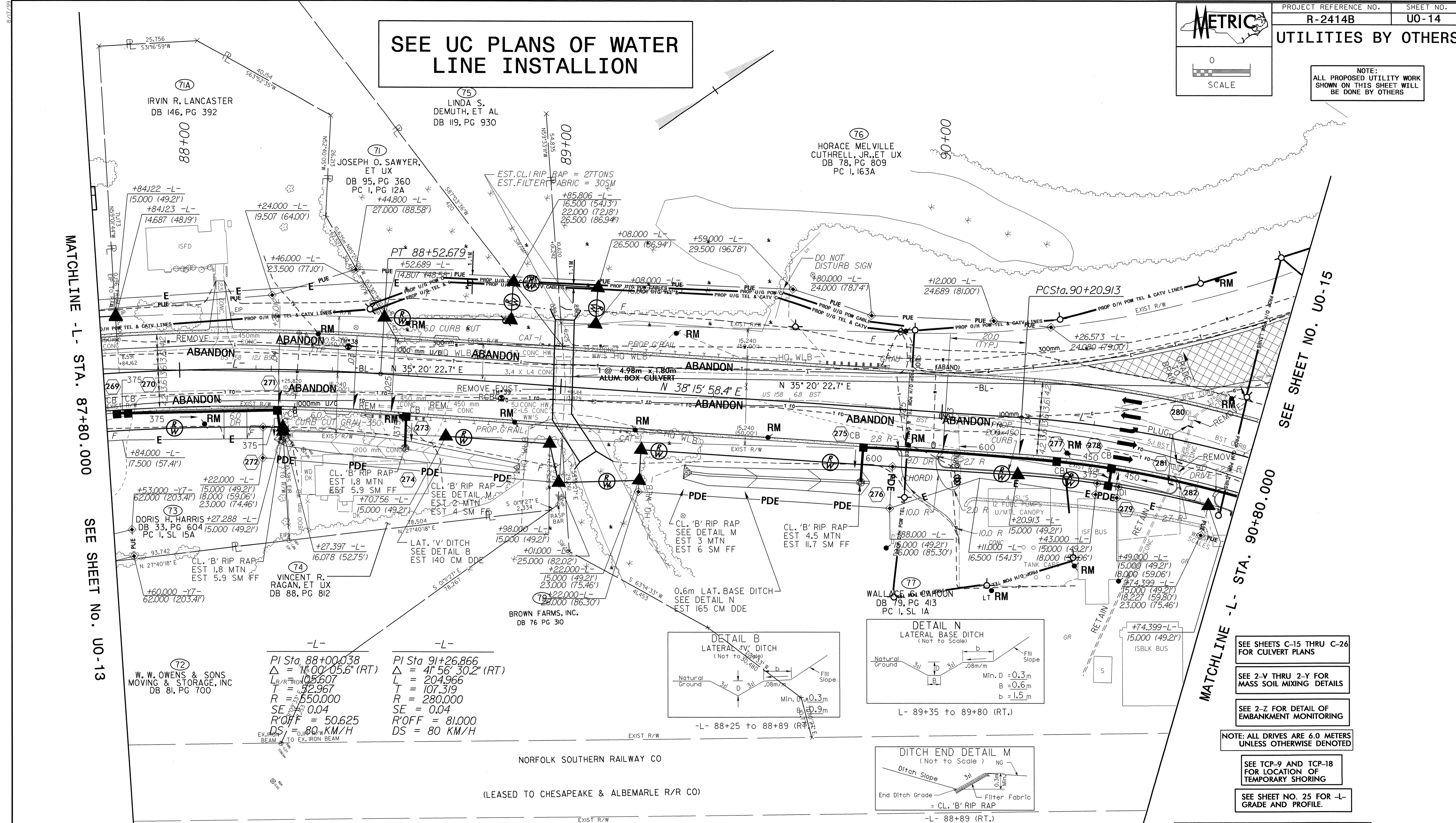
SEE UC PLANS OF WATER
LINE INSTALLION

MATCHLINE -L- STA. 87+80.000

SEE SHEET NO. U0-13

SEE SHEET NO. U0-15

MATCHLINE -L- STA. 90+80.000

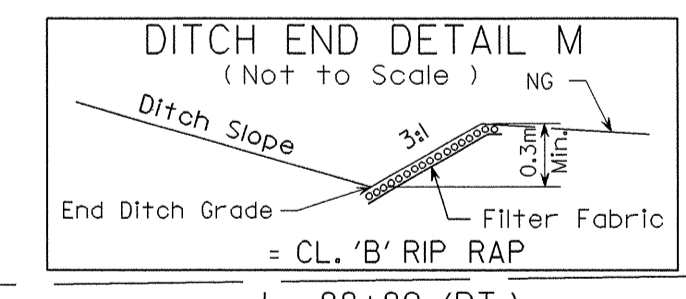
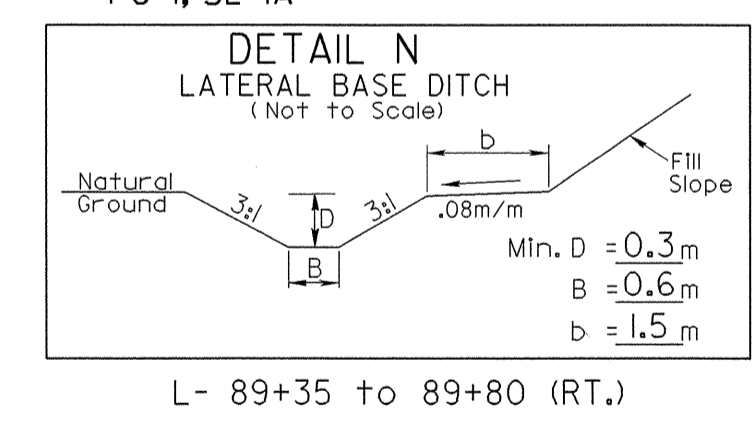
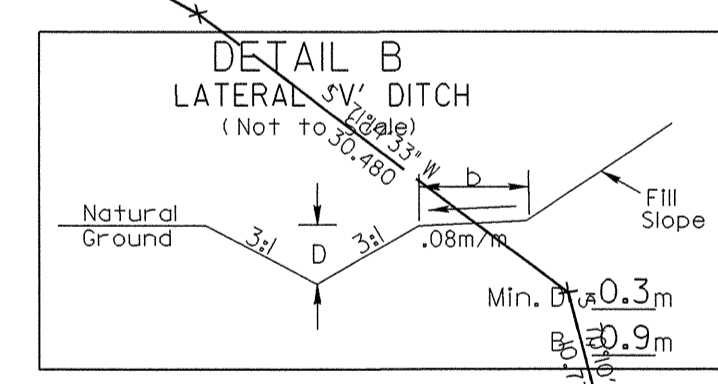


(72) W. W. OWENS & SONS
MOVING & STORAGE, INC
DB 81, PG 700

-L-
PI Sta 88+00.038
 $\Delta = 11^{\circ}00'05.6''$ (RT)
L = 105.607
T = 32.967
R = 550.000
SE = 0.04
R'OFF = 50.625
DS = 80 KM/H

-L-
PI Sta 91+26.866
 $\Delta = 41^{\circ}56'30.2''$ (RT)
L = 204.966
T = 107.319
R = 280.000
SE = 0.04
R'OFF = 81.000
DS = 80 KM/H

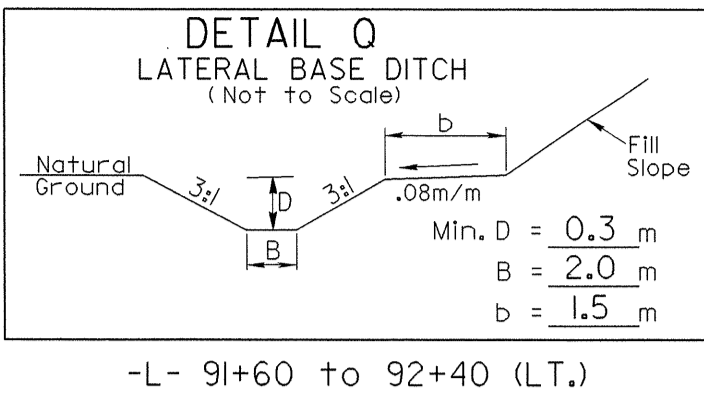
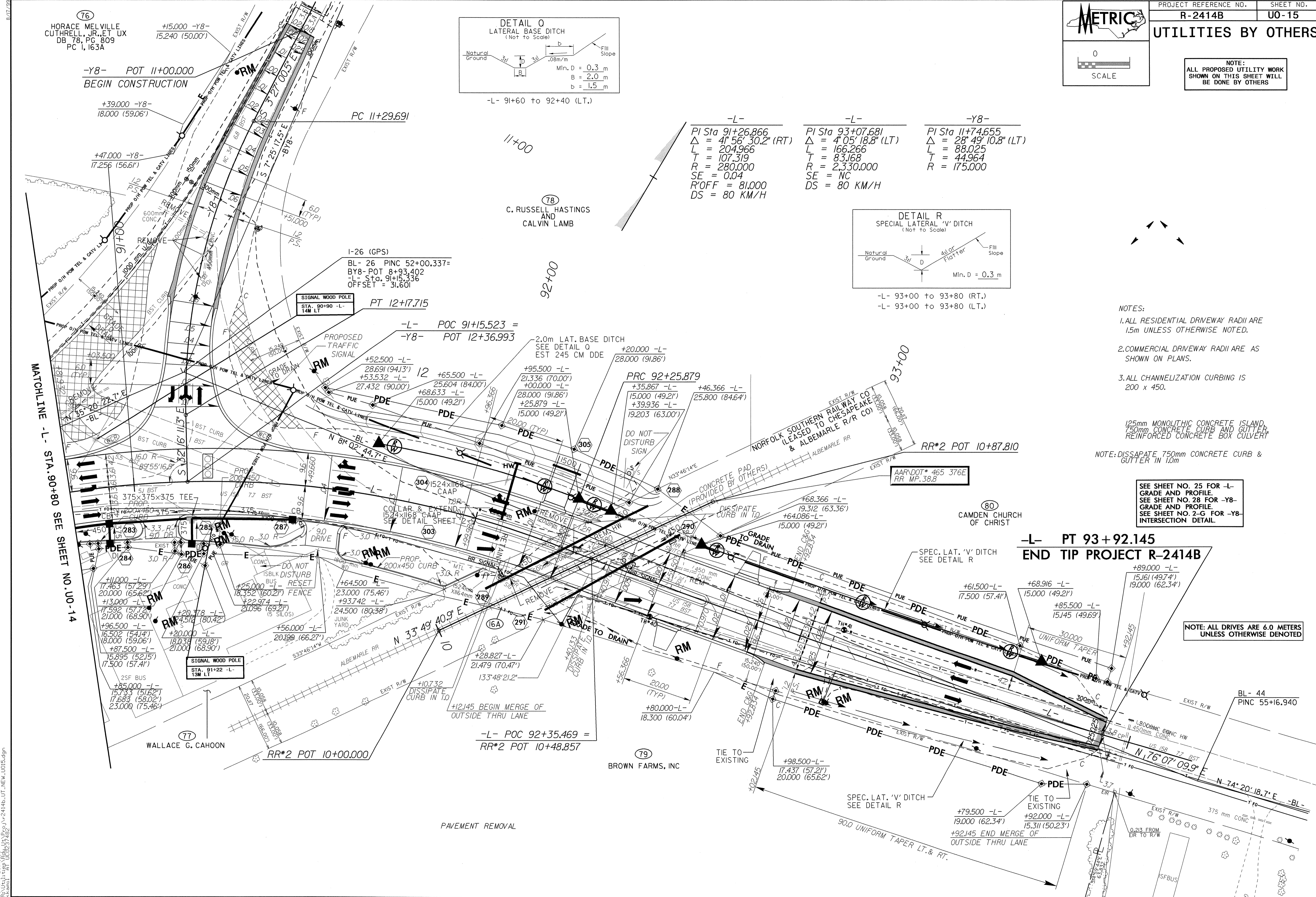
NORFOLK SOUTHERN RAILWAY CO
(LEASED TO CHESAPEAKE & ALBEMARLE R/R CO)



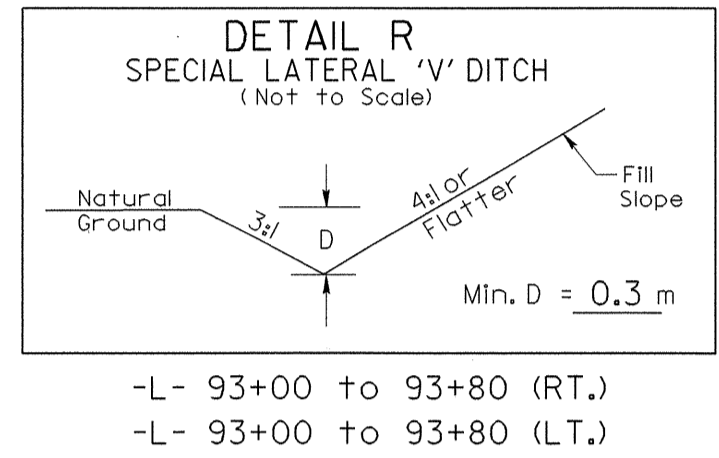
- SEE SHEETS C-15 THRU C-26 FOR CULVERT PLANS
- SEE 2-V THRU 2-Y FOR MASS SOIL MIXING DETAILS
- SEE 2-Z FOR DETAIL OF EMBANKMENT MONITORING
- NOTE: ALL DRIVES ARE 6.0 METERS UNLESS OTHERWISE DENOTED
- SEE TCP-9 AND TCP-18 FOR LOCATION OF TEMPORARY SHORING
- SEE SHEET NO. 25 FOR -L- GRADE AND PROFILE.

125mm MONOLITHIC CONCRETE ISLAND,
750mm CONCRETE CURB AND GUTTER,
REINFORCED CONCRETE BOX CULVERT

09-MAY-2011 09:51
R:\U014\Drawings\U014\U014.dwg
10:00:00



| -L- | -L- | -Y8- |
|---------------------------------------|--------------------------------------|---------------------------------------|
| PI Sta 91+26.866 | PI Sta 93+07.681 | PI Sta 11+74.655 |
| $\Delta = 41^{\circ} 56' 30.2''$ (RT) | $\Delta = 4^{\circ} 05' 18.8''$ (LT) | $\Delta = 28^{\circ} 49' 10.8''$ (LT) |
| L = 204.966 | L = 166.266 | L = 88.025 |
| R = 107.319 | R = 83.168 | R = 44.964 |
| SE = 280.000 | SE = NC | R = 175.000 |
| R'OFF = 81.000 | DS = 80 KM/H | |
| DS = 80 KM/H | | |



- NOTES:**
- ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 - COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 - ALL CHANNELIZATION CURBING IS 200 x 450.
- 125mm MONOLITHIC CONCRETE ISLAND, 750mm CONCRETE CURB AND GUTTER, REINFORCED CONCRETE BOX CULVERT
- NOTE: DISSIPATE 750mm CONCRETE CURB & GUTTER IN 1.0m

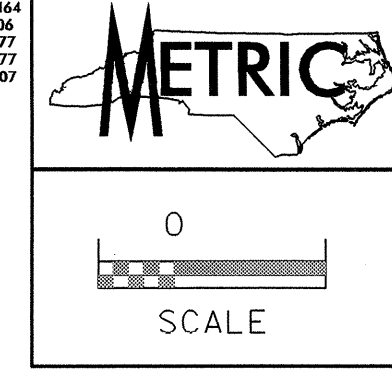
SEE SHEET NO. 25 FOR -L- GRADE AND PROFILE.
 SEE SHEET NO. 28 FOR -Y8- GRADE AND PROFILE.
 SEE SHEET NO. 2-G FOR -Y8- INTERSECTION DETAIL.

-L- PT 93+92.145
 END TIP PROJECT R-2414B

NOTE: ALL DRIVES ARE 6.0 METERS UNLESS OTHERWISE DENOTED

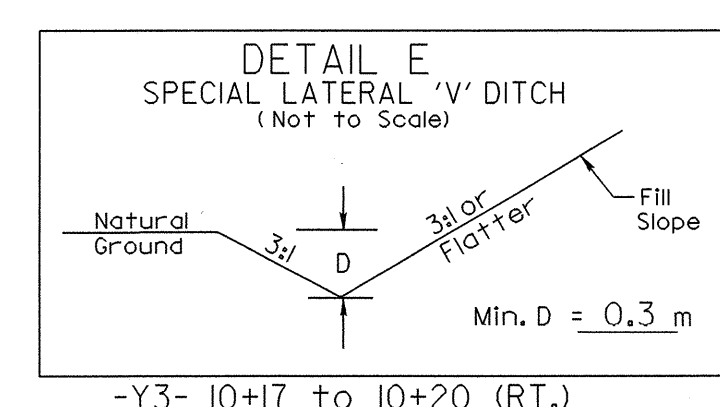
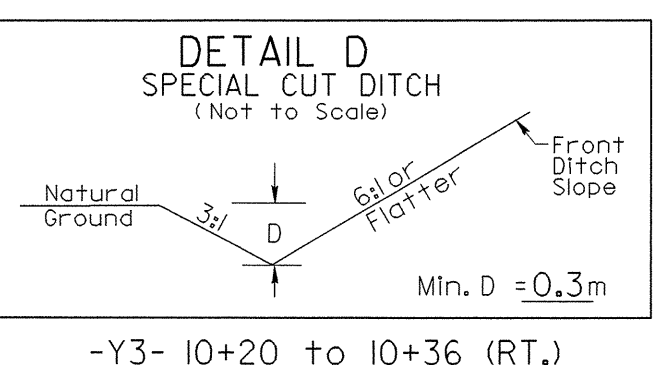
MATCHLINE -L- STA. 90+80 SEE SHEET NO. UO-14

09-MAY-2010 10:33
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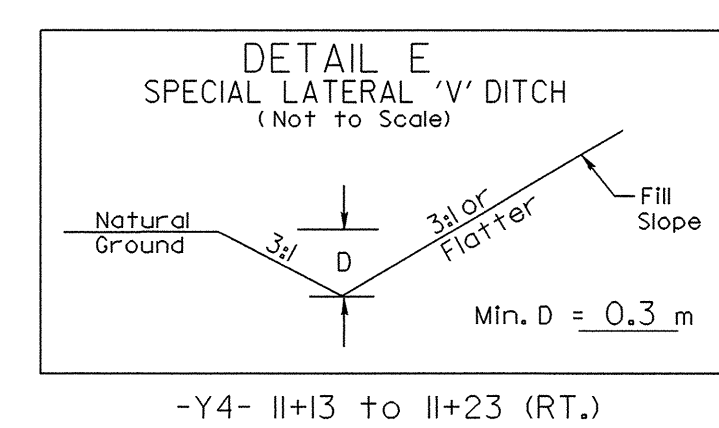
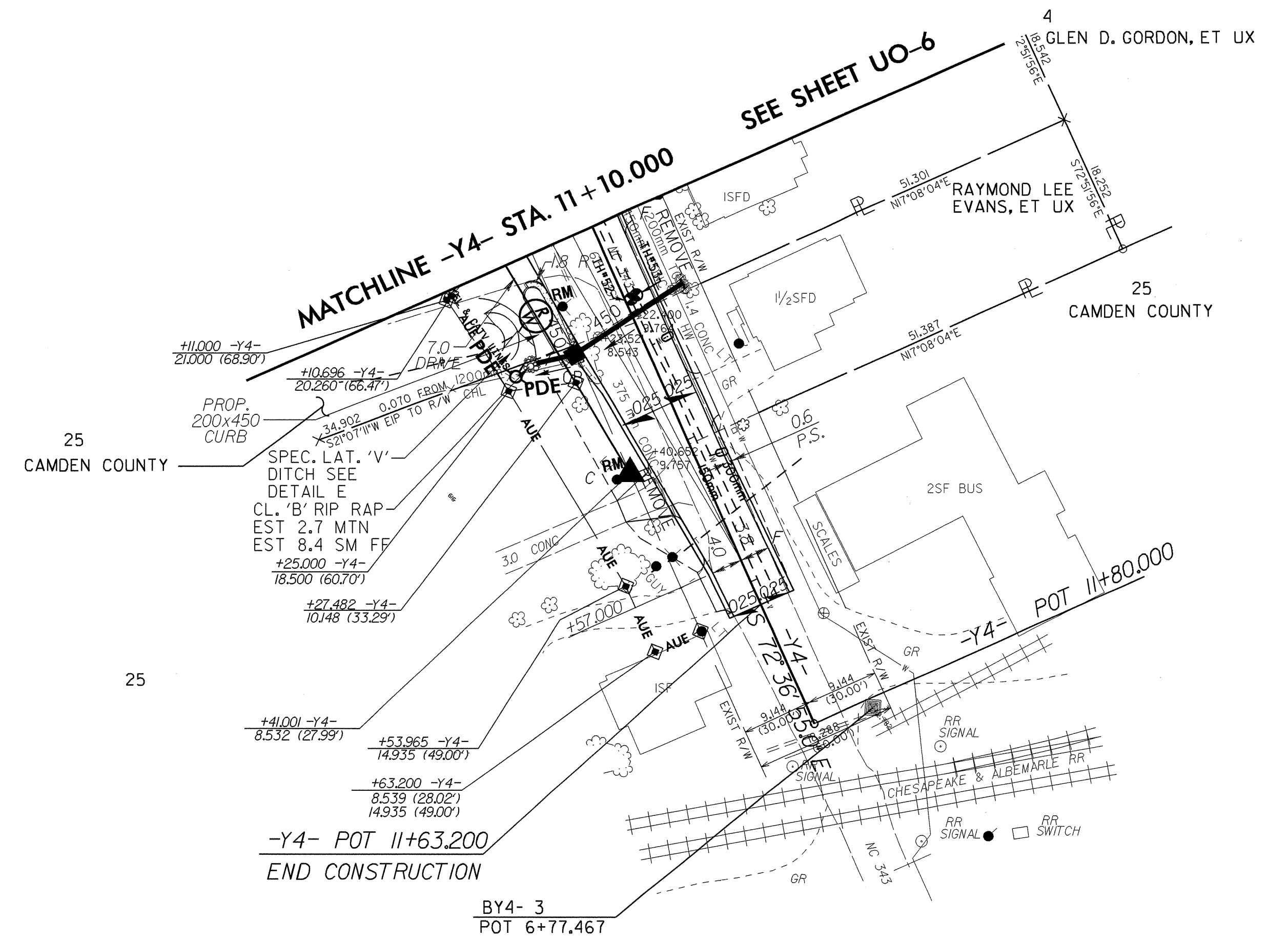
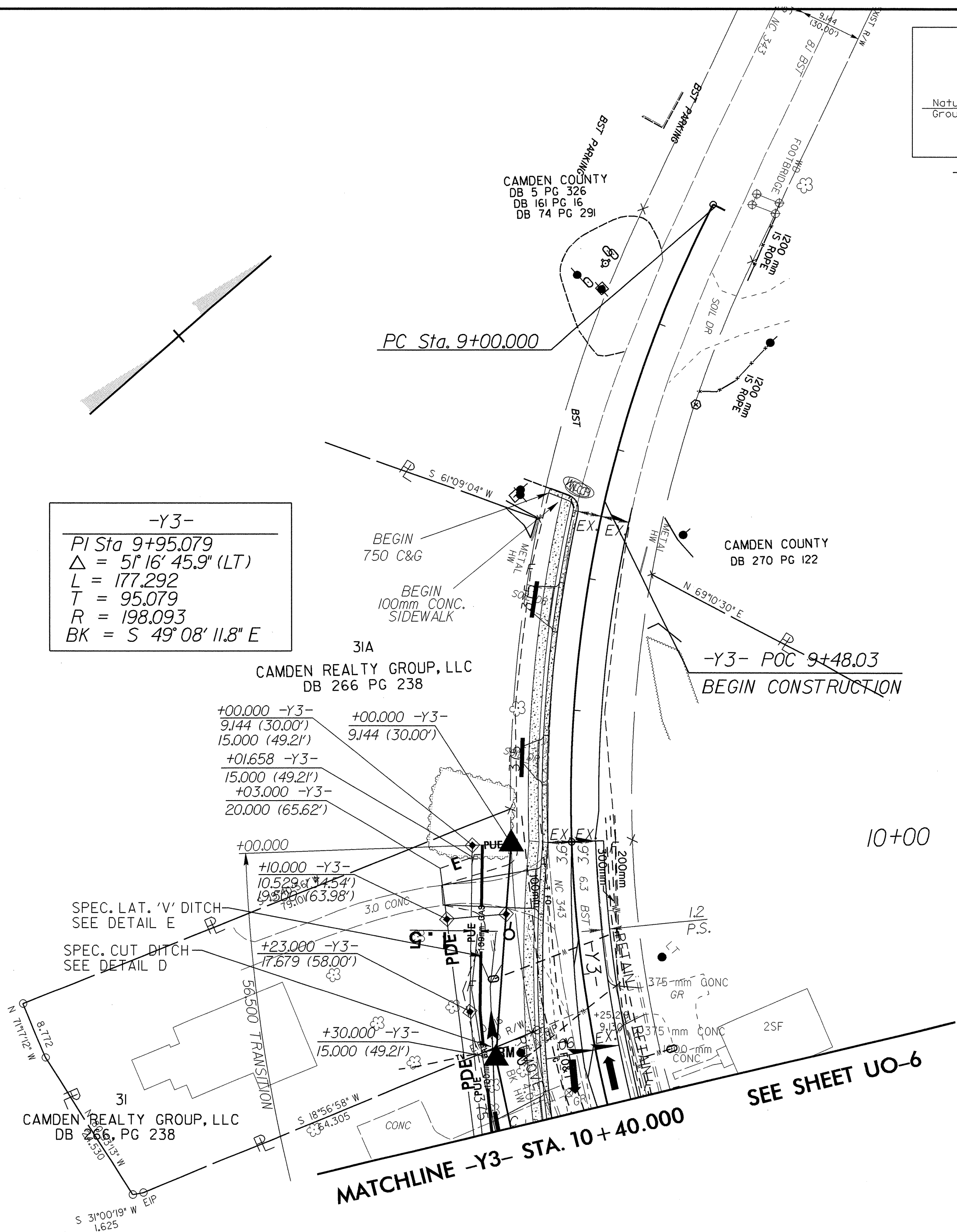


UTILITIES BY OTHERS

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



-Y3-
 PI Sta 9+95.079
 $\Delta = 5^\circ 16' 45.9''$ (LT)
 L = 177.292
 T = 95.079
 R = 198.093
 BK = S $49^\circ 08' 11.8''$ E



03-MAY-2011 15:09
 P:\U111\Proj\2414B\U0-16.dgn
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